

PALO VERDE COMMUNITY COLLEGE PROJECT 2: COLLEGE SERVICES BUILDING

CLIENT



Palo Verde Community College District
1 College Drive
Blythe, CA 92225

PROJECT NAME

Project 2
College Services Building
1 College Drive
Blythe, CA 92225

CONTRACTOR

DESIGNER



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REGISTRATION STAMP



ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.: 17009

DRAWN BY: JA

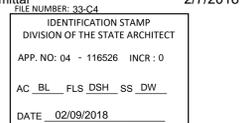
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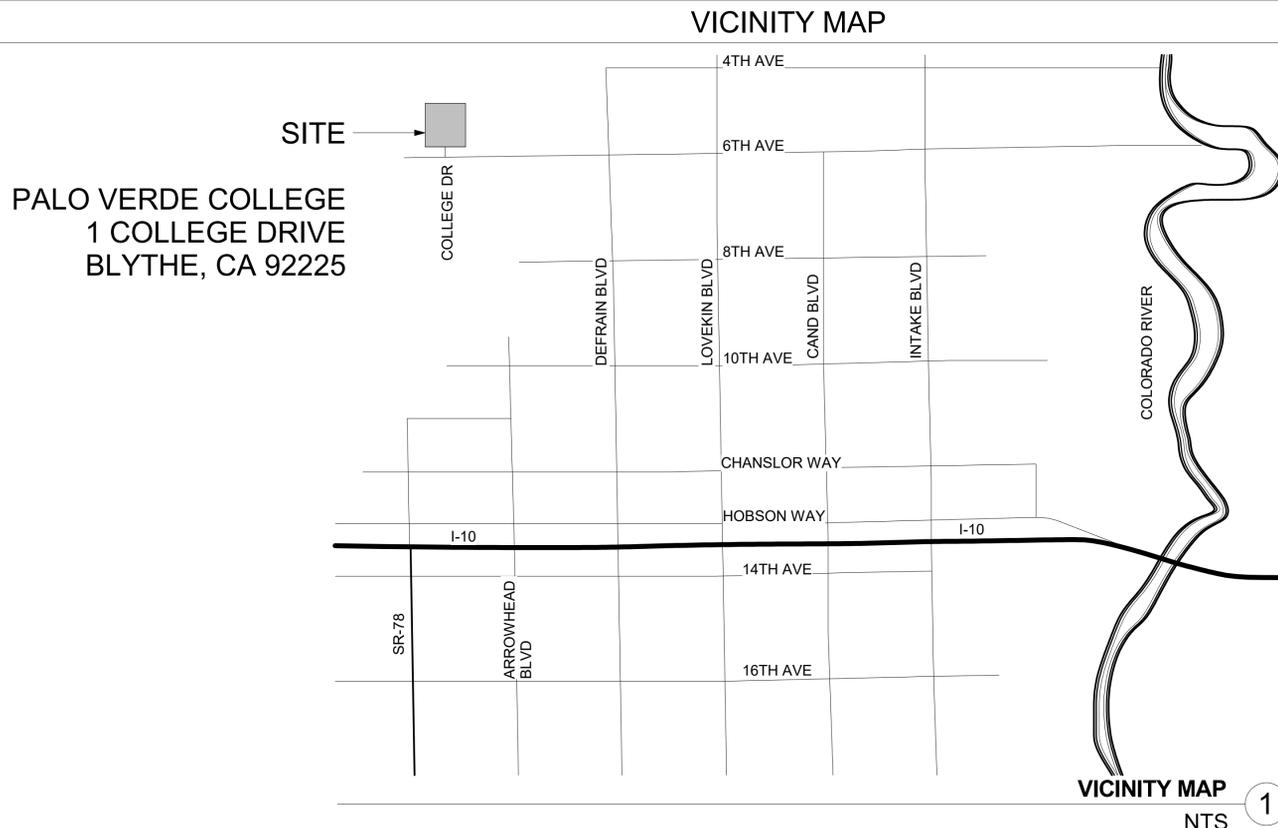
DATE 2/7/2018

SHEET TITLE

TITLE SHEET

SHEET NUMBER

G-001



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BUILDING DATA / CODE ANALYSIS

TOTAL AREA OF WORK:	2,654 SF
APN:	821-200-020
CONSTRUCTION TYPE:	(E) TYPE-IB
OCCUPANCY GROUPS:	B, A-3
FULLY SPRINKLERED:	YES
BUILDING HEIGHT:	42'-0" (NO CHANGETS TO HT.)
NUMBER OF STORIES:	2-STORY
INSPECTOR CLASSIFICATION	CLASS 3 INSPECTOR

SCOPE OF WORK

SCOPE OF WORK:
THE PROJECT CONSISTS OF TENANT IMPROVEMENTS TO THE SECOND FLOOR OF THE COLLEGE SERVICES BUILDING. THE TENANT IMPROVEMENTS WILL CONSIST OF CONVERSION OF ROOMS 211 AND 212 INTO PARTITIONED ROOMS 6, 7, 8, AND 9. ADDITIONALLY, THE REMAINING ASSESSMENT & LEARNING SKILLS SPACE WILL BE CONVERTED INTO COFFEE, ADMIN, WAITING, P.R. AND H.R. AREAS.

PARTIAL LIST OF APPLICABLE CODES AND STANDARDS

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2017	PARTIAL LIST OF APPLICABLE STANDARDS
2016 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*	NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED) 2016 EDITION
2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR	NFPA 14 STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS 2015 EDITION
(2015 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2016 CALIFORNIA AMENDMENTS)	NFPA 17 STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS 2013 EDITION
2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR	NFPA 17A STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS 2013 EDITION
(2014 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS)	NFPA 20 STD. FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION 2016 EDITION
2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR	NFPA 22 STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION 2015 EDITION
(2015 IAPMO UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS)	NFPA 24 STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPERTURES 2016 EDITION
2016 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR	NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED) 2016 EDITION
2016 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR	NFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES 2016 EDITION
(2015 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)	NFPA 2001 STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 2015 EDITION
2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.	UL 300 STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT 2005 (R2010)
2016 CALIFORNIA BUILDING CODE (C.B.C.), PART 2, TITLE 24 C.C.R.	UL 464 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS INCLUDING ACCESSORIES 2003 EDITION
2016 CALIFORNIA FIRE CODE (C.F.C.), PART 9, TITLE 24 C.C.R.	UL 521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS 1999 EDITION
2016 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.	UL 1971 STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED 2002 EDITION
2016 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.	ICC 300 STANDARD FOR BLEACHERS, FOLDING AND TELESCOPING SEATING AND GRANDSTANDS 2012 EDITION
2016 TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS	
2016 CALIFORNIA FIRE CODE (C.F.C.), PART 9, TITLE 24 C.C.R.; (2014 NATIONAL ELECTRICAL CODE WITH ALL CALIFORNIA AMENDMENTS)	
2016 CALIFORNIA MECHANICAL CODE (C.M.C.), PART 4, TITLE 24 C.C.R.; (2015 INTERNATIONAL MECHANICAL CODE WITH ALL CALIFORNIA AMENDMENTS)	

DIRECTORY

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- ALL CONTRACTORS SHALL BE EXPERIENCED AND THOROUGHLY KNOWLEDGEABLE IN THEIR RESPECTIVE AREAS OF THE CONSTRUCTION INDUSTRY AND SHALL PERFORM IN A RESPONSIBLE MANNER IN ESTABLISHED CONSTRUCTION SEQUENCE. IN REVIEWING THE DRAWINGS AND DETAILS, THE CONTRACTOR SHALL INFORM THE ARCHITECT OF POTENTIAL PROBLEMS WHEN DRAWINGS ARE UNCLEAR OR INCONSISTENT.
- ALL REFERENCES MADE IN THE PLANS, SPECIFICATIONS AND CONTRACT DOCUMENTS TO THE CONTRACTOR SHALL ALSO APPLY TO THE SUBCONTRACTOR. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE TO NOTIFY THE ARCHITECT OF DISCREPANCIES OR CONFLICTS IN THE DRAWINGS FOUND DURING BIDDING AND/OR CONSTRUCTION PRIOR TO PERFORMING THE WORK. THE ARCHITECT SHALL RESOLVE SUCH DISCREPANCIES EXPEDITIOUSLY AND NOTIFY THE CONTRACTOR EITHER VERBALLY OR IN WRITING AS APPLICABLE TO THE CONDITION. IF CONFLICTS ARE NOT BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING THE BID PROCESS IT IS ASSUMED THAT THE CONTRACTOR WILL BE RESOLVING THE CONFLICT IN THE MOST INEXPENSIVE WAY.
- UTILITIES ARE DIAGRAMMATICALLY LOCATED ON THE DRAWING SOLELY FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR IS EXPRESSLY WARNED THAT SUCH INDICATIONS ARE ONLY APPROXIMATE AS TO ACTUAL LOCATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE ANY AND ALL UTILITIES REQUIRED TO COMPLETE THE SCOPE OF WORK.
- ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE C.B.C. AND TITLE 24 AS ADOPTED AND AMENDED BY LOCAL GOVERNING AGENCIES.
- WHERE NO CONSTRUCTION DETAILS OR NOTES ARE SHOWN FOR ANY PART OF THE WORK, IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM THE WORK TO CONFORM TO SIMILAR STANDARD DETAILS AS REGULATED BY LOCAL GOVERNING AGENCIES.
- IF NOT SPECIFICALLY DEFINED IN THESE DRAWINGS, MATERIALS AND/OR EQUIPMENT SHALL BE IDENTIFIED BY THE CONTRACTOR TO THE ARCHITECT WITHIN A REASONABLE AMOUNT OF TIME TO ALLOW SELECTION, PURCHASE AND DELIVERY SO AS TO PREVENT DELAY IN THE JOB SCHEDULE.
- MATERIAL SUBSTITUTION SHALL BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO THE PURCHASE AND INSTALLATION.
- ALL MATERIAL SHALL BE HANDLED AND INSTALLED PER MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS.
- ALL COLORS AND / OR COLOR SAMPLES SHALL BE SUBMITTED TO THE ARCHITECT AND OWNER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION OR APPLICATION.
- TOILET ROOMS SHALL HAVE AN AIR CHANGE OF FOUR (4) COMPLETE VOLUMETRIC AIR CHANGES PER HOUR.
- NEITHER THE OWNER OR ARCHITECT ARE RESPONSIBLE FOR ENFORCING SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND BRACING AND BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
- ATTIC SEPARATIONS AS REQUIRED BY GOVERNING AGENCIES SHALL BE PROVIDED, WHETHER INDICATED ON THESE PLANS OR NOT.
- THE CONTRACTOR IS REQUIRED TO VISIT THE SITE AND BECOME AWARE OF ALL VISIBLE EXISTING CONDITIONS, ASCERTAIN THE LIMITS OF WORK, (AS RELATED TO EXISTING CONDITIONS AND IMPROVEMENTS) LIMITS OF SITE ACCESS FOR EQUIPMENT, MATERIAL DELIVERY AND STORAGE AND CONSTRUCTION FORCES.
- THE CONTRACTOR SHALL CHECK AND VERIFY ALL FIELD MEASUREMENTS AND SHALL SUBMIT FOR REVIEW, WITH SUCH PROMPTNESS AS TO CAUSE NO DELAY IN HIS OWN WORK OR THAT OF ANY SUBCONTRACTOR. ALL SHOP OR SETTING DRAWINGS AND SCHEDULES REQUIRED FOR THE WORK OF THE VARIOUS TRADES.
- SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD, WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THEY HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL. THE DEFERRED SUBMITTAL ITEMS ARE: NONE AT THIS TIME
- VERIFY WITH ARCHITECT WHETHER THESE NOTES OR SPECIFIC NOTES ON DRAWINGS SHALL TAKE PRECEDENCE IN CASE OF CONFLICT.
- WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL GOVERN. DO NOT SCALE DRAWINGS UNLESS DIRECTED BY ARCHITECT.
- VERIFY EXACT LOCATIONS AND SIZES OF HOLES IN FLOOR, WALLS, AND ROOF FOR PLUMBING, HVAC, AND ELECTRICAL WITH RESPECTIVE CONTRACTORS AND SUB CONTRACTORS.
- OWNER OR HIS AUTHORIZED AGENT SHALL BE RESPONSIBLE FOR ALL SCHEDULING AND COORDINATION. ALL DRAWINGS HAVE BEEN DRAWN TO SCALE AS INDICATED UNLESS OTHERWISE SHOWN; HOWEVER, MECHANICAL, FIRE PROTECTION AND ELECTRICAL SYSTEMS MAY BE OF SCHEMATIC LAYOUT. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATION OF ALL ROUGH-IN AND FINISH INSTALLATIONS OF AND VERIFICATION OF NON-INTERFERENCE BETWEEN ALL SYSTEMS.
- WALLS: SEE DRAWINGS FOR LEGEND, STUD SIZES AND SPACING. FRAMING MEMBERS INDICATED ARE SCHEMATIC, ADDITIONAL MEMBERS MAY BE REQUIRED TO PROPERLY MAINTAIN RIGIDITY, BACKING, ELECTRICAL BRACING, ETC. FOR A COMPLETE INSTALLATION. ALL INSTALLATIONS SHALL CONFORM TO THE MANUFACTURER'S ICBO APPROVED SYSTEM.
- IF SMOKE AND FIRE DAMPERS ARE REQUIRED, CONTRACTOR SHALL SUPPLY AND INSTALL AS REQUIRED BY LOCAL CODE.
- DRILLED-IN OR SHOT-IN CONCRETE ANCHORS USED FOR HANGER WIRES MUST BE FIELD TESTED. ONE OUT OF TEN MUST BE TESTED FOR 200 POUNDS OF TENSION. DRILLED IN CONCRETE ANCHORS USED FOR BRACING WIRES MUST BE FIELD TESTED. ONE OUT OF TWO MUST BE TESTED FOR 440 POUNDS OF TENSION. IF ANY TEST FAILS, ALL ADJACENT WIRES MUST BE TESTED.
- ICBO REPORT NUMBERS WHERE SHOWN ON DRAWINGS AND IN THE SPECIFICATIONS ARE SHOWN ONLY TO INDICATE THE REQUIREMENTS BY THE LOCAL BUILDING DEPARTMENT. OTHER PRODUCTS WITH APPROVED ICBO REPORT NUMBER MAY BE USED IF SUBMITTED TO THE ARCHITECT PRIOR TO INSTALLATION.
- ALL FURRED CEILINGS SHALL COMPLY WITH C.B.C.
- PLUMBING AND ELECTRICAL PENETRATIONS THROUGH WALLS FOR SEPARATION OF OCCUPANCY AND AREA, CORRIDOR, OR OTHER FIRE SEPARATIONS SHALL COMPLY WITH SEC. 713-C.B.C.
- ADDITIONALLY, STEEL OUTLET BOXES AT OCCUPANCY SEPARATION WALLS SHALL NOT EXCEED SIXTEEN SQUARE INCHES, SHALL NOT EXCEED ONE HUNDRED SQUARE INCHES PER ONE HUNDRED SQUARE FEET OF WALL, AND SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF TWENTY-FOUR INCHES WHEN ON OPPOSITE SIDES OF A WALL PER 713 C.B.C. DUCTS PENETRATING OCCUPANCY SEPARATIONS MUST HAVE SMOKE AND FIRE DAMPERS PER 713 C.B.C.
- BRACING AND TEMPORARY SUPPORT SHALL BE PROVIDED AS REQUIRED TO HOLD THE WORK SECURELY IN PLACE AND TO SUSTAIN ALL LOADS THAT MAY DURING ERECTION AND UNTIL SUBSEQUENT CONSTRUCTION IS ADEQUATE TO REPLACE TEMPORARY BRACING.
- ALL FIXED GLASS PANELS ADJACENT TO DOORS AND GLAZING ADJACENT TO WALKING SURFACE MUST BE OF SAFETY GLAZING MATERIAL.
- ALL SHOT PINS SHALL BE HILTI DS (0.177" DIA) LOW VELOCITY FASTENER (IC-ESR-1663), 32" O.C.
- WHEN SPECIAL INSPECTION IS REQUIRED, THE ARCHITECT OR ENGINEER OF RECORD SHALL SUBMIT THE NAME AND INFORMATION OF THE SPECIAL INSPECTION TEAM TO THE CITY FOR REVIEW AND APPROVAL.

GENERAL NOTES

- MATERIAL SUBSTITUTION SHALL BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO THE PURCHASE AND INSTALLATION.
- ALL MATERIAL SHALL BE HANDLED AND INSTALLED PER MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS.
- ALL COLORS AND / OR COLOR SAMPLES SHALL BE SUBMITTED TO THE ARCHITECT AND OWNER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION OR APPLICATION.

& L	AND ANGLE	E	EAST EACH	KJ	KEYED COLD JOINT	S	SOUTH
@	AT	EF	EACH FACE	KO	KITCHEN	SF	SQUARE FEET
@	CENTERLINE	EJ	EXPANSION JOINT	KP	KNOCKOUT	SC	SOLID CORE
@	DIAMETER	ELEV	ELEVATION	KPL	KICK PLATE	SCH	SCHEDULE
#	POUND OR NUMBER	ELEC	ELECTRICAL	LAB	LABORATORY	SD	SOAP DISPENSER
(E)	EXISTING	EMER	EMERGENCY	LAV	LAVATORY	SEC	SECTION
		ENCL	ENCLOSURE	LAM	LAMINATE	SLV	SHELF/SHELVING
A.A.	ALL AROUND	EP	ELECTRICAL PANEL	LKR	LOCKER	SHR	SHOWER
ACOUS	ACCOUSTICAL	EQ	EQUAL	LT	LIGHT	SHT	SHEET
AD	AREA DRAIN	EQUIP	EQUIPMENT	LAD	LADDER	SIM	SIMILAR
ADJ	ADJUSTABLE	EST	ESTIMATE	LAG	LAG BOLT	SLD	SLIDING
AGGR	AGGREGATE	EXP	EXPOSED	LH	LEFT HAND	SD	STORM DRAIN
AL	ALUMINUM	EXP	EXPANSION	L	LENGTH/LONG	SPEC	SPECIFICATION
APPROX	APPROXIMATE	EXT	EXTERIOR	LW	LIGHT WEIGHT	SQ	SQUARE
ARCH	ARCHITECTURAL	EXH	EXHAUST	LV	LIVE LOAD	SS	STAINLESS STEEL
ASPH	ASPHALT	EPDM	ETHYLENE PROPYLENE	LL	LIVE LOAD	SKS	SERVICE SINK
AC	ASPHALT CONCRETE	EXH	EXHAUST	LVR	LOUVER	STF	STORE FRONT
ACC	ACCESS COMPO	EL	ELEVATOR	LIN	LINTEL	STA	STATION
AP	ACCESS PANEL	EIF	EXTERIOR INSULATING FINISH SYSTEM			STD	STANDARD
ACP	ASPHALT CONCRETE PAVING			MAX	MAXIMUM	STL	STEEL
ADD	ADDENDUM	FA	FIRE ALARM	MC	MEDICINE CABINET	STO	STORAGE
ADH	ADHESIVE	FAS	FASTENER	MECH	MECHANICAL	STR	STRUCTURAL
ADJ	ADJACENT	FD	FLOOR DRAIN	MEMB	MEMBRANE	SUSP	SUSPENDED
AFF	ABOVU FINISH FLOOR	FDN	FOUNDATION	MTL	METAL	SYM	SYMMETRICAL
A/C	AIR CONDITIONING	FEB	FIRE EXTINGUISHER	MFR	MANUFACTURER	SA	SUPPLY AIR
ALT	ALTERNATE	FEC	FIRE EXTINGUISHER	MH	MANHOLE	SK	SMOKE DETECTOR
AB	ANCHOR BOLT	FHC	FIRE EXTINGUISHER CABINET	MIN	MINIMUM	SKL	SKYLIGHT
ANOD	ANODIZED	FIN	FIRE HOSE CABINET	MIR	MIRROR	SPK	SPEAKER
AT	ASHALT TILE	FL	FINISH	MISC	MISCELLANEOUS	SYS	SYSTEM
AUTO	AUTOMATIC	FLASH	FLOOR FLASHING	MO	MASONRY OPENING	SHTG	SHEATHING
AV	AUDIO VISUAL	FLOUJ	FLOOR FLUORESCENT	MTD	MOUNTED	T	TREAD
		FOF	FACE OF CONCRETE	MUL	MULLION	TB	TOWEL BAR
BD	BOARD	FOS	FACE OF FINISH	MAS	MASONRY	TC	TOP OF CURB
BITMUN	BITUMIOUS BUILDING	FOM	FACE OF STUD	MED	MEDIUM	TEL	TELEPHONE
BLK	BLOCK	FRP	FACE OF MASONRY	MDO	MEDIUM DENSITY OVERLAY	TZ	TERAZZO
BLKG	BLOCKING	FT	FIBER REINFORCED PANEL	MOD	MODIFIED	T&G	TONGUE AND GROOVE
BM	BEAM	FTG	FOOT/FEET	MOV	MOVABLE	THK	THICK
BTM	BOTTOM	FURR	FOOTING	MLD	MOLDING	TP	TOP OF PAVEMENT
BMK	BENCHMARK	FUT	FUTURING	MAT	MATERIAL	TPH	TOILET PAPER HOLDER
BET	BETWEEN	FFE	FUTURE	MRB	MARBLE	TV	TELEVISION
BRZ	BRONZE	FF	FINISH FLOOR	MRD	METAL ROOF DECK	TYP	TYPICAL
		FG	FINISH GRADE	N	NORTH	THRES	THRESHOLD
CAB	CABINET	FP	FIRE PROOF	NIC	NOT IN CONTRACT	TR	TRANSOM
CB	CATCH BASIN	FHMS	FLAT HEAD MACHINE SCREW	NOM	NOMINAL	TOS	TOP OF SLAB
CEM	CEMENT	FHWS	FLAT HEAD WOOD SCREW	NTS	NOT TO SCALE	TG	TEMPERED GLASS
CER	CERAMIC	FL	FLOW LINE	OA	OVERALL	TS	TOP OF STEEL
CI	CAST IRON	FS	FLOOR DRAIN	OBS	OBSCURE	TK&D	TACK BOARD
CIP	CAST IN PLACE	FIX	FLOOR SINK	O.C.	ON CENTER	UNF	UNFINISHED
CIR	CIRCLE	FPL	FIXTURE	OD	OUTSIDE DIAMETER	UNO	UNLESS NOTED OTHERWISE
CLG	CEILING	FBO	FIREPLACE	OFF	OFFICE	UR	URINAL
CLKG	CEILING CALKING		FURNISHED BY OTHERS	OPF	OPENING	UL	UNDERWRITER'S LABORATORY
CLO	CLOSET	GA	GAUZE	OPP	OPPOSITE		
CLR	CLEAR	GALV	GALVANIZED	OCC	OCCUPANT	VERT	VERTICAL
CO	CLEAN OUT	GB	GENERAL	OPH	OPPOSITE HAND	VEST	VESTIBULE
COL	COLUMN	GL	GLASS, GLAZING	OHMS	OVAL HEAD MACHINE SCREW	VB	VAPOR BARRIER
CONC	CONCRETE	GL	GLASS, GLAZING	OHWS	OVAL HEAD WOOD SCREW	VCT	VINYL COMPOSITION TILE
CONN	CONNECTION	GND	GENERAL CONTRACTOR	OH	OVERHEAD	VB	VINYLE BASE
CONST	CONSTRUCTION	GYP	GYP BOARD	OV/	OVER		
CONTIN	CONTINUOUS	GR	GROUND	PAN	PANEL	W	WEST
CORR	CORRIDOR	GYP	GYP BOARD	PCC	PRE-CAST CONCRETE	W/	WITH
CSK	COUNTERSINK	GI	GYP SUM BOARD	PL	LATE	WC	WATER CLOSET
CTR	COUNTER	GPL	GALVANIZED IRON	PLAM	PLASTIC LAMINATE	WD	WOOD
CPT	CARPET	HB	HOSE BIBB	PLAS	PLASTER	W/O	WITHOUT
CT	CERAMIC TILE	HC	HOLLOW CORE	PLYWD	PLYWOOD	WP	WATERPROOF
COMPO	COMPOSITION/COMPOSITE	HDW	HARDWOOD	PR	PAIR	WSC	WAINSCOT
CMU	CONCRETE MASONRY UNIT	HM	HARDWARE	PT	POINT	WT	WEIGHT
CONF	CONFERENCE	HORIZ	HOLLOW METAL	PTD	PAPER TOWEL DISPENSER	WH	WALL HUNG
CMP	CORRIGATED METAL PIPE	HR	HORIZONTAL	PAR	PARALLEL	WWF	WELDED WIRE FABRIC
CONTR	CONTRACTOR	HGT	HEIGHT	PTN	PARTITION	W	WIDE/WIDTH
CONP	CEMENT PLASTER	HUR	HOUR	PB	PANIC BAR	WIN	WINDOW
CJ	CONTROL JOINT	HC	HEIGHT	PL	PROPERTY LINE	WB	WOOD BASE
		HDB	HANDICAP	PERF	PERFORATED		
DBL	DOUBLE	HDR	HARDBOARD	QT	QUARRY TILE		
DEPT	DEPARTMENT	HVAC	HEADER			R	RISER
DF	DRINKING FOUNTAIN		HEATING, VENTING/ & AIR CONDITIONING			R	RADIUS
DET	DETAIL	HD	HEAVY DUTY			RD	ROOF DRAIN
DG	DUAL GLASS	HW	HORIZONTAL			REF	REFERENCE
DIA	DIAMETER	HW	HOT WATER HEATER			REFR	REFRIGERATOR
DIM	DIMENSION	HEX	HEXAGONAL			RGTR	REGISTER
DISP	DISPENSER	ID	INSIDE DIAMETER			REINF	REINFORCEMENT
DN	DOWN	INSUL	INSULATION			REQ	REQUIRED
DWR	DOOR OPENING	INT	INTERIOR			RESIL	RESILIENT
DS	DOWN SPOUT	INCL	INTERIOR			RM	ROOM
DSP	DRY STAND PIPE	INTEG	INCLUDED			RO	ROUGH OPENING
DWG	DRAWING	INSTR	INTEGRATED INSTRUCTIONS			RWD	REDWOOD
DP	DAMP PROOFING	JAN	JANITOR			REV	REVISION
DEMO	DEMOLITION	JT	JOINT			RFEC	RECESSED FIRE EXTINGUISHER
DEP	DEPRESSION/DEPRESSED	JST	JOIST			RET	CABINET RETURN
DIAG	DIAGONAL	JF	JOIST FILLER			RH	RIGHT HAND
DIV	DIVISION					RF	ROOF
DR	DOOR					RS	RESAWN
D	DRAIN						
DW	DISHWASHER						

ABBREVIATIONS

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE 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.

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/4" IF BEVELED AT 1:2 MAX SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX. AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2.1% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, UNLESS OTHERWISE INDICATED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80".

WALKS AND SIDEWALKS: ALL WALKS AND SIDEWALKS THAT ARE INDICATED AS PATH OF TRAVEL SHALL BE BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/4" (CBC 11B-403.3)

DRINKING FOUNTAINS: ALL DRINKING FOUNTAINS SHALL CONFORM TO CBC.

GRATINGS: FOR GRATINGS LOCATED IN THE SURFACE OF ANY PEDESTRIAN WAY IN THE PATH OF TRAVEL, GRID/OPENING IN THE GRATINGS SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN 1 1/2" DIAMETER. IF SUCH CONDITION OCCURS, PROVIDE MANUFACTURERS CUT SHEETS FOR REVIEW.

ACCESSIBILITY NOTES

CLIENT



Palo Verde Community College District
1 College Drive
Blythe, CA 92225

PROJECT NAME

Project 2
College Services Building
1 College Drive
Blythe, CA 92225

CONTRACTOR

DESIGNER



31045 Temecula Parkway
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T. 760.489.4432
www.sillmanwright.com

CONSULTANTS

REGISTRATION STAMP



ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.: 17009

DRAWN BY: JAH/NH

CHECKED BY: MS

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

DESIGN ITERATION 10/06/17

DSA Submittal 10/06/2017

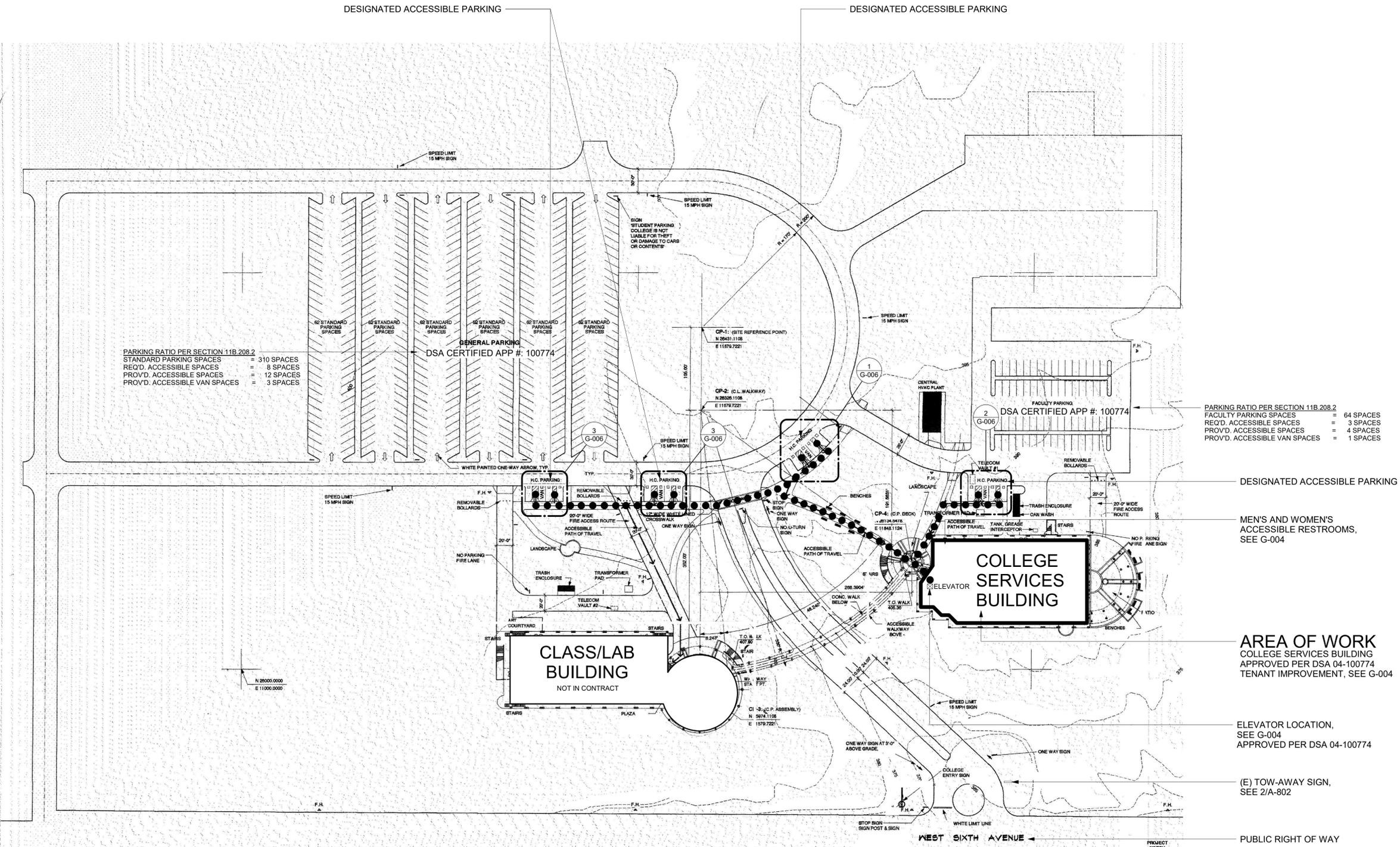
DATE 10/06/17

SHEET TITLE

NOTES, ABBREVIATIONS, AND ACCESSIBILITY NOTES

SHEET NUMBER

G-002



PARKING RATIO PER SECTION 11B.208.2
 STANDARD PARKING SPACES = 310 SPACES
 REQ'D. ACCESSIBLE SPACES = 3 SPACES
 PROVD. ACCESSIBLE SPACES = 12 SPACES
 PROVD. ACCESSIBLE VAN SPACES = 3 SPACES

PARKING RATIO PER SECTION 11B.208.2
 FACULTY PARKING SPACES = 64 SPACES
 REQ'D. ACCESSIBLE SPACES = 3 SPACES
 PROVD. ACCESSIBLE SPACES = 4 SPACES
 PROVD. ACCESSIBLE VAN SPACES = 1 SPACES

NOTE:
 DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE 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.

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ACCESSIBILITY LEGEND

●●●●● INDICATES (E) PATH OF TRAVEL (P.O.T.) PER DSA 04-100774

ACCESSIBLE PATH OF TRAVEL AS DEFINED BELOW:

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES THAT WILL BE GREATER THEN 1/2" WHEN CHANGES TO OCCUR. THEY SHALL BE BEVELED WITH A MAX. SLOPE OF 1:2. LEVEL CHANGES LESS THAN A 1/4" MAX MAY BE VERTICAL, AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. THE MAXIMUM PERMITTED CROSS SLOPE SHALL NOT EXCEED 1:48, AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, IF GREATER THAN 5% THEY MUST COMPLY RAMP REQUIREMENTS PER SECTION 11B-402.2. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

CLIENT

PALO VERDE COLLEGE
 WHERE KNOWLEDGE TAKES ROOT AND OPPORTUNITY GROWS

Palo Verde Community College District
 1 College Drive
 Blythe, CA 92225

PROJECT NAME

Project 2
College Services Building
 1 College Drive
 Blythe, CA 92225

CONTRACTOR

DESIGNER

SILLMAN WRIGHT ARCHITECTS 31045 Temecula Parkway Suite 204 Temecula, CA 92592 T 760.489.4432 www.sillmanwright.com

CONSULTANTS

REGISTRATION STAMP

ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.: 17009
 DRAWN BY: Author
 CHECKED BY: Checker
 SCALE: As indicated
 DESIGN ITERATION 10/06/17

DSA Submittal 10/06/2017
 DSA Submittal 2/7/2018

FILE NUMBER: 33-C4
 IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 APP. NO: 04 - 116526 INCR - 0
 AC_BL_FLS_DSH_SS_DW
 DATE 02/09/2018

DATE 2/7/2018

SHEET TITLE

OVERALL SITE PLAN

SHEET NUMBER

G-003



31045 Temecula Parkway
Suite 204
Temecula, CA 92592
T. 760.489.4432
www.sillimanwright.com



Mark	Date	Description

DESIGNER PROJECT NO.: 17009

DRAWN BY: JAH/NH

CHECKED BY: MS

SCALE: As indicated

DESIGN ITERATION 10/06/17

DSA Submittal 10/06/2017

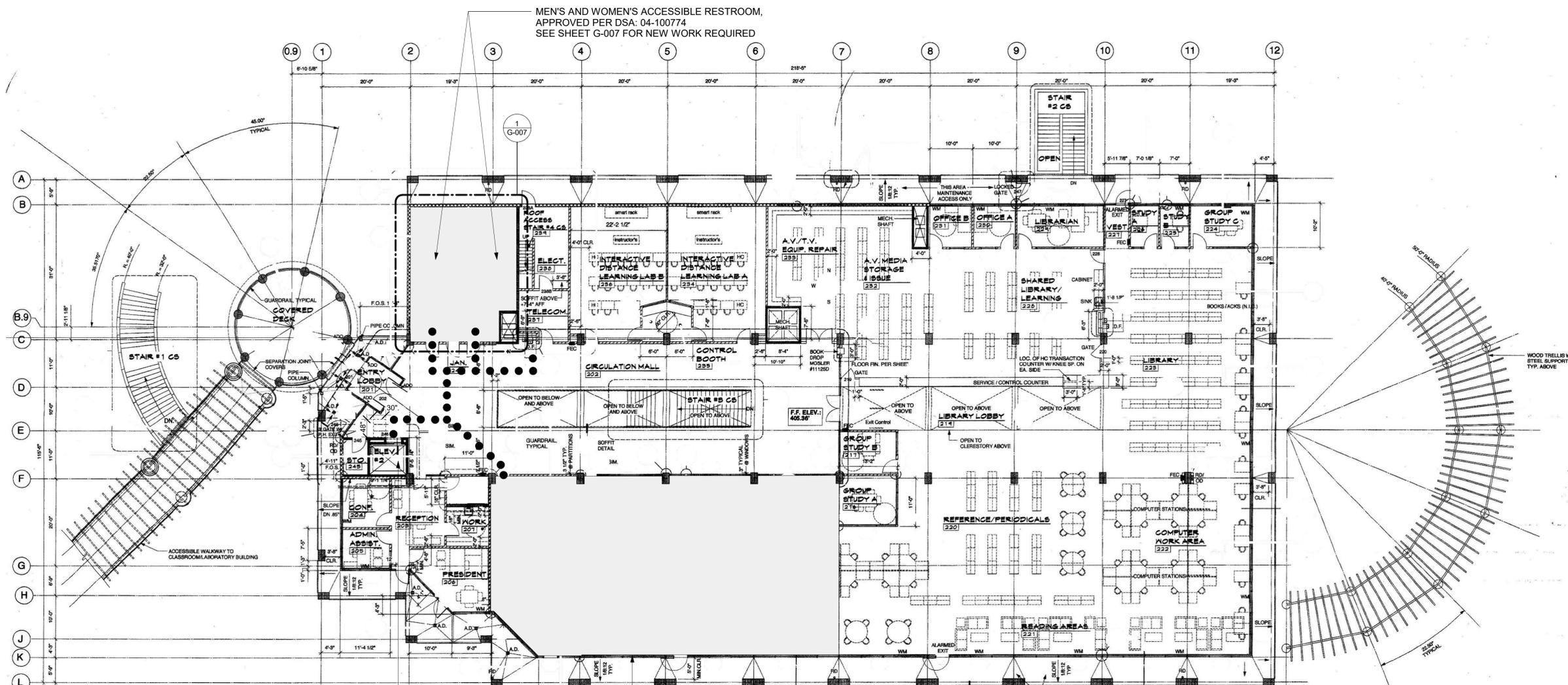
DATE 10/06/17

SHEET TITLE

OVERALL SECOND FLOOR PLAN

SHEET NUMBER

G-004



MEN'S AND WOMEN'S ACCESSIBLE RESTROOM,
APPROVED PER DSA: 04-100774
SEE SHEET G-007 FOR NEW WORK REQUIRED

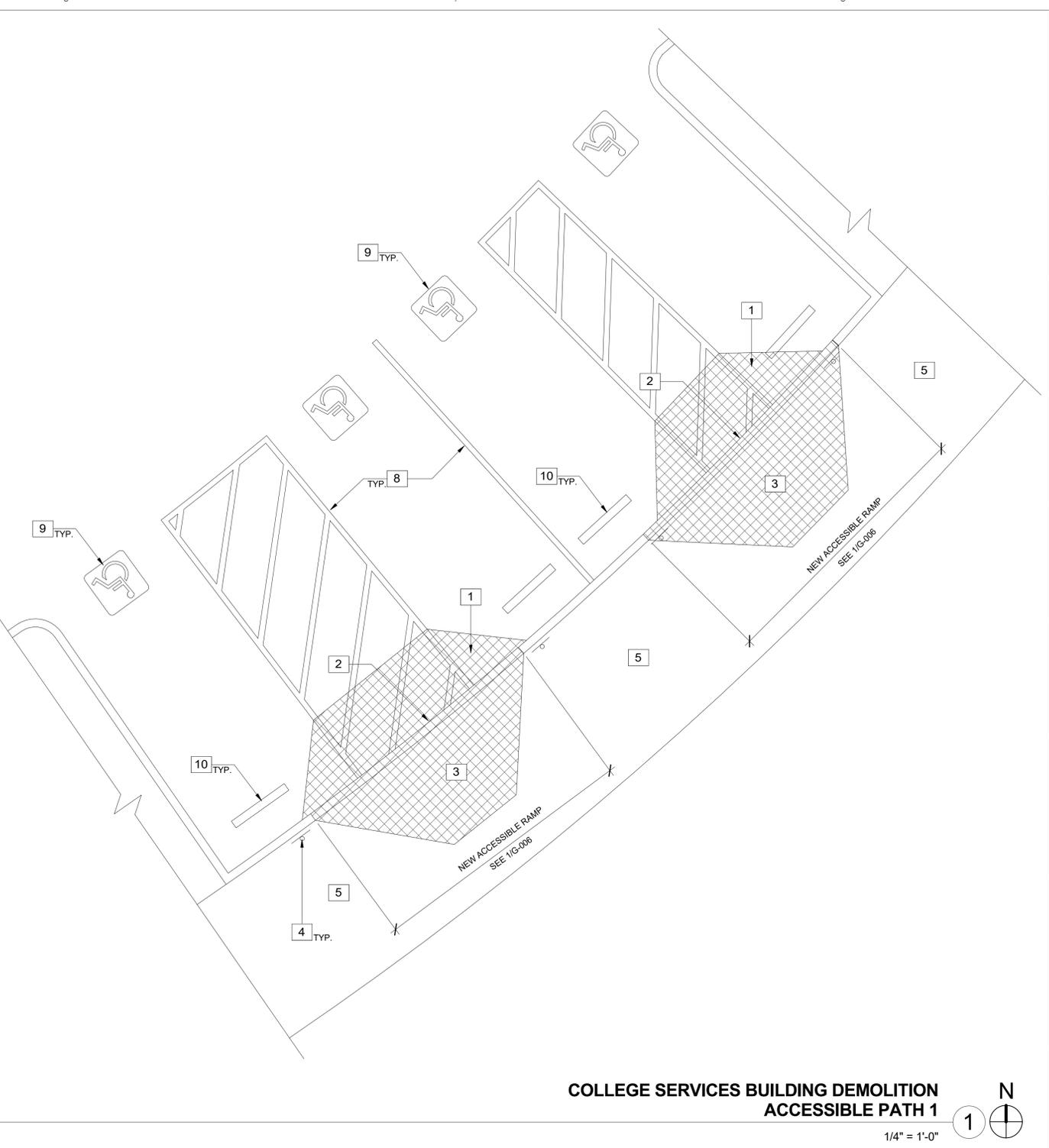
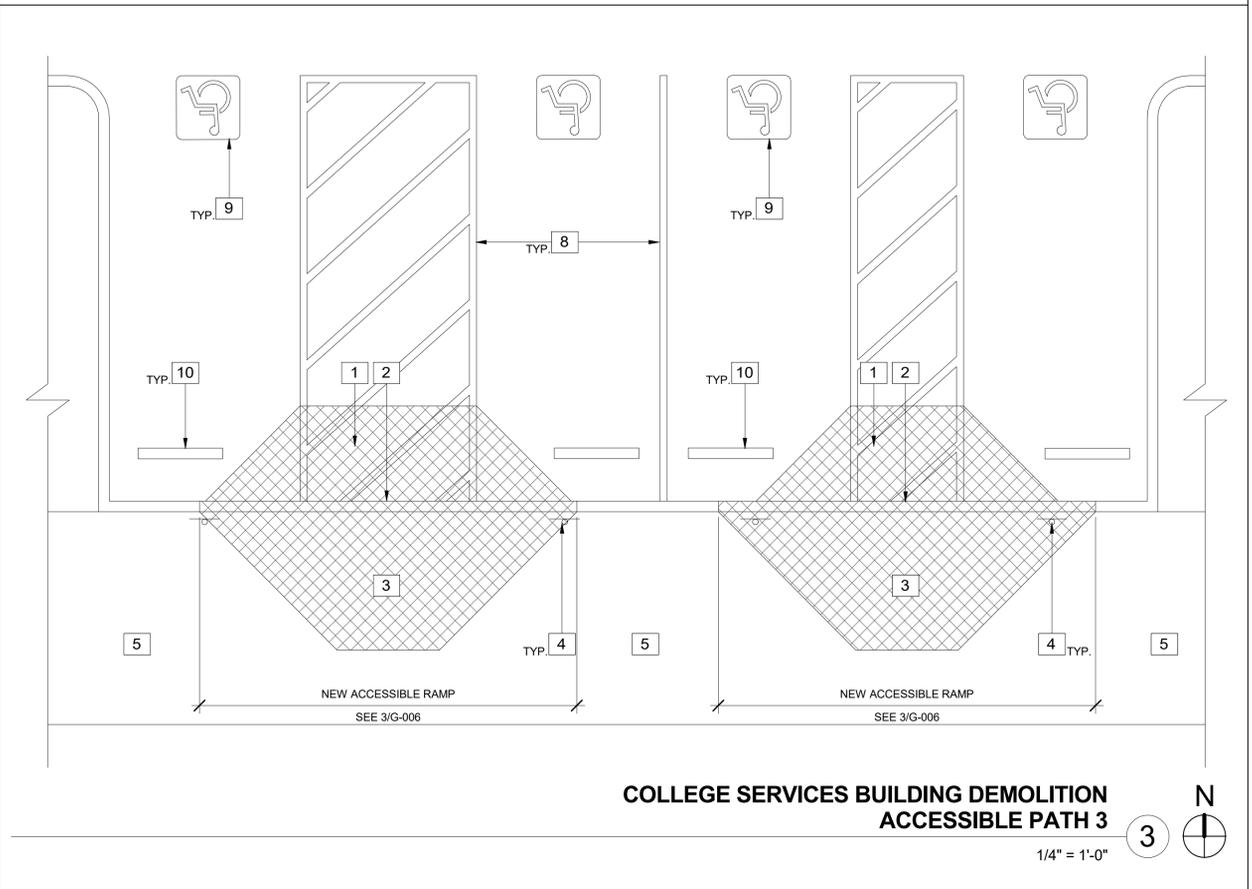
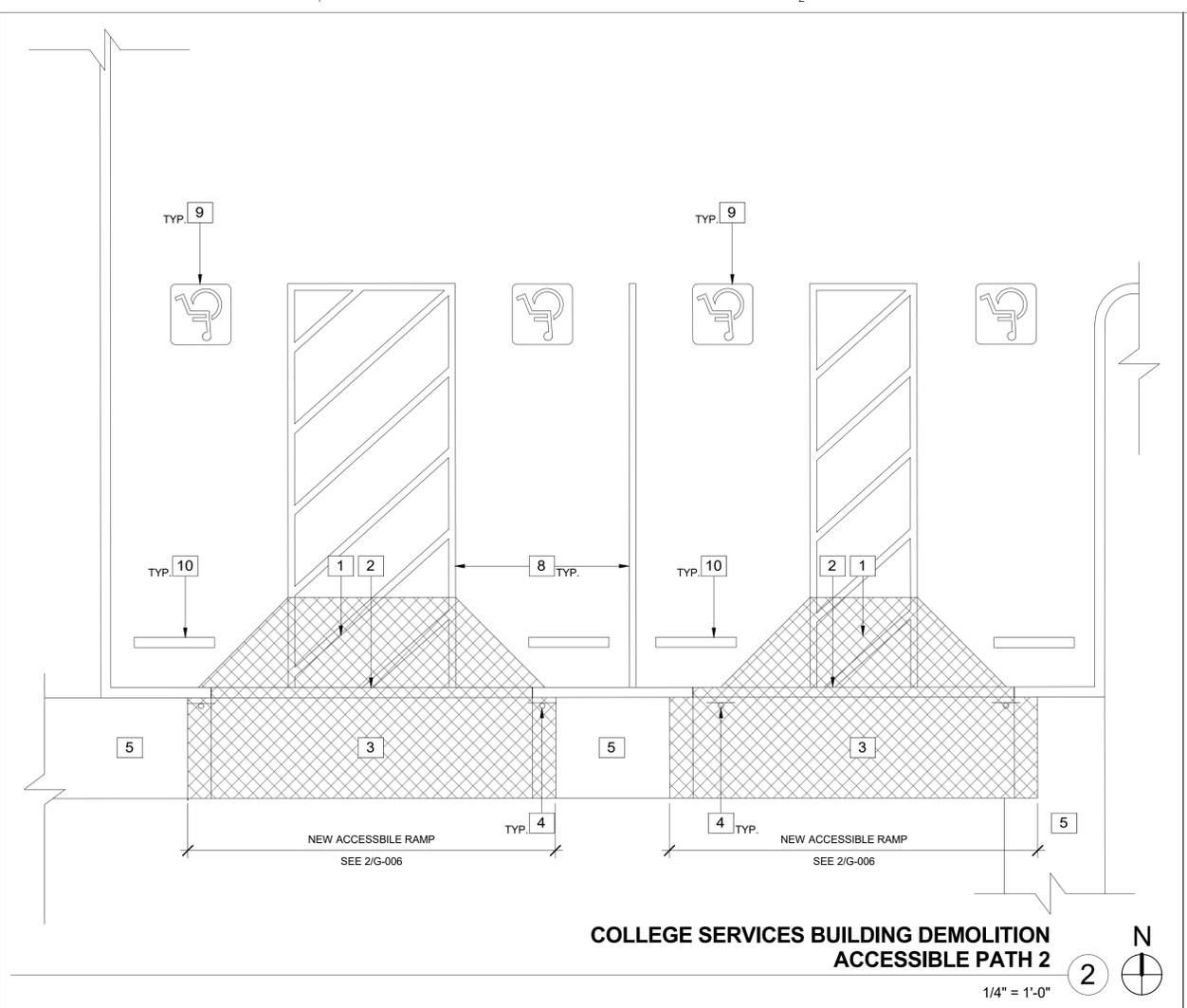
EXISTING ELEVATOR,
APPROVED PER DSA: 04-100774

AREA OF WORK
COLLEGE SERVICES BUILDING,
TENANT IMPROVEMENT
SEE A-200

●●●●● INDICATES (E) PATH OF TRAVEL (P.O.T.)
PER DSA 04-100774

ACCESSIBLE PATH OF TRAVEL AS DEFINED BELOW:

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES THAT WILL BE GREATER THEN 1/2" WHEN CHANGES TO OCCUR, THEY SHALL BE BEVELED WITH A MAX. SLOPE OF 1:2. LEVEL CHANGES LESS THAN A 1/4" MAX MAY BE VERTICAL, AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. THE MAXIMUM PERMITTED CROSS SLOPE SHALL NOT EXCEED 1:48, AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, IF GREATER THAN 5% THEY MUST COMPLY RAMP REQUIREMENTS PER SECTION 11B-402.2. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.



- KEYNOTES**
- 1 DEMOLISH EXISTING ACCESSIBLE RAMP, SEE G-006
 - 2 NEW ACCESSIBLE CURB CUT PER G-006
 - 3 DEMOLISH SIDEWALK PER G-006
 - 4 RELOCATE ALL ACCESSIBLE STALL SIGNAGE PER G-006
 - 5 EXISTING SIDEWALK TO REMAIN, N.I.C.
 - 6 INTENTIONALLY LEFT BLANK
 - 7 INTENTIONALLY LEFT BLANK
 - 8 EXISTING STRIPING TO REMAIN, N.I.C.
 - 9 EXISTING DISABLED PARKING SYMBOL TO REMAIN, N.I.C.
 - 10 EXISTING WHEEL STOP TO REMAIN, N.I.C.

LEGEND

..... EXISTING ACCESSIBLE PATH OF TRAVEL

[Hatched Box] AREA TO BE DEMOLISHED

ACCESSIBLE PATH OF TRAVEL AS DEFINED BELOW:

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES THAT WILL BE GREATER THEN 1/2" WHEN CHANGES TO OCCUR, THEY SHALL BE BEVELED WITH A MAX. SLOPE OF 1:2. LEVEL CHANGES LESS THAN A 1/4" MAX MAY BE VERTICAL, AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. THE MAXIMUM PERMITTED CROSS SLOPE SHALL NOT EXCEED 1:48, AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, IF GREATER THAN 5% THEY MUST COMPLY RAMP REQUIREMENTS PER SECTION 11B-402.2. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

CLIENT

PALO VERDE COLLEGE
WHERE KNOWLEDGE TAKES ROOT AND OPPORTUNITY GROWS

Palo Verde Community College District
1 College Drive
Blythe, CA 92225

PROJECT NAME

Project 2
College Services Building
1 College Drive
Blythe, CA 92225

CONTRACTOR

DESIGNER

SILLMAN WRIGHT ARCHITECTS 31045 Temecula Parkway Suite 204
Temecula, CA 92592 T. 760.489.4432 www.sillmanwright.com

CONSULTANTS

REGISTRATION STAMP

ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.: 17009

DRAWN BY: JA/NH

CHECKED BY: MS

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

DESIGN ITERATION 10/06/17

DSA Submittal 10/06/2017

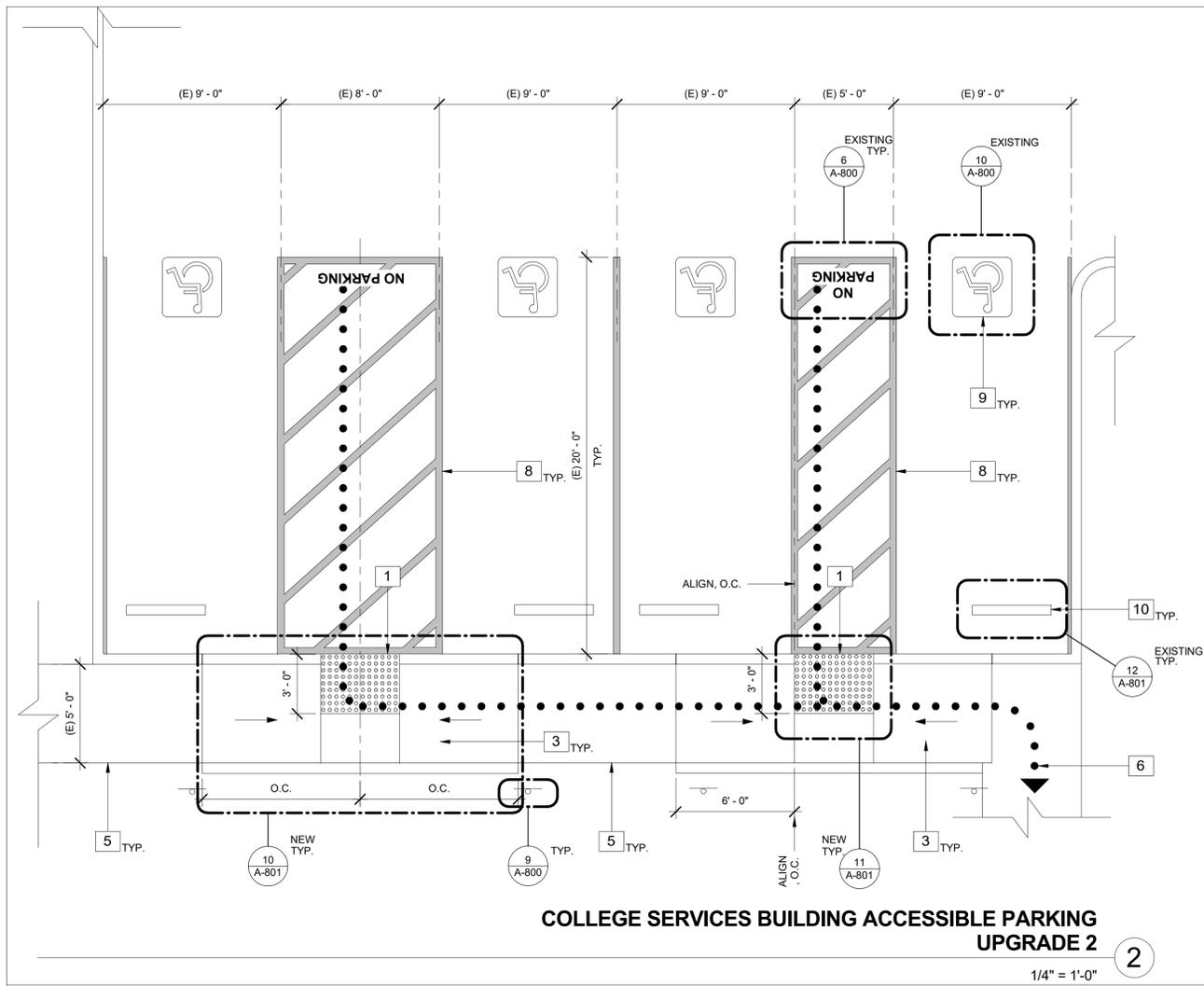
DATE 10/06/17

SHEET TITLE

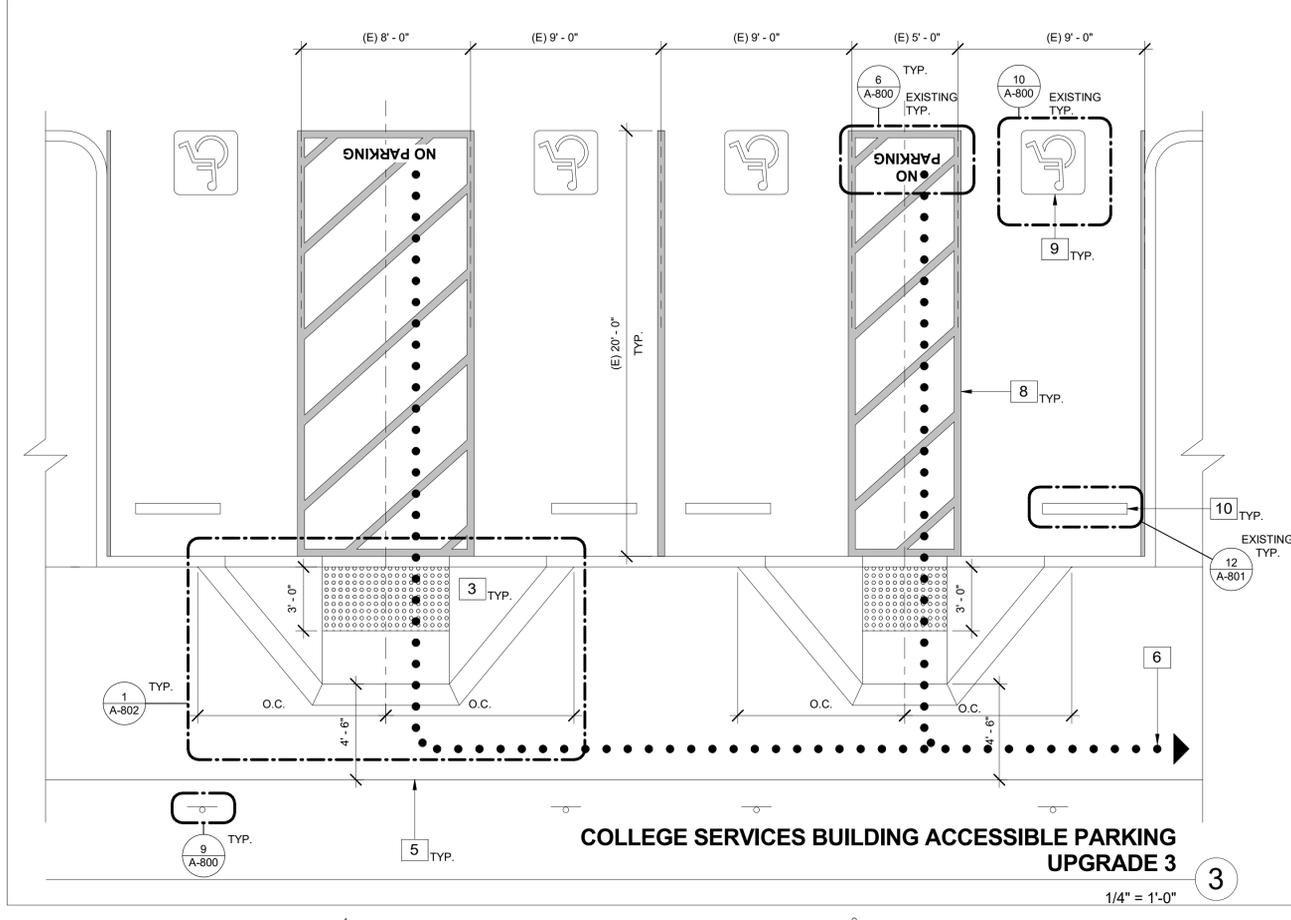
CS BUILDING ACCESSIBLE PARKING DEMOLITION

SHEET NUMBER

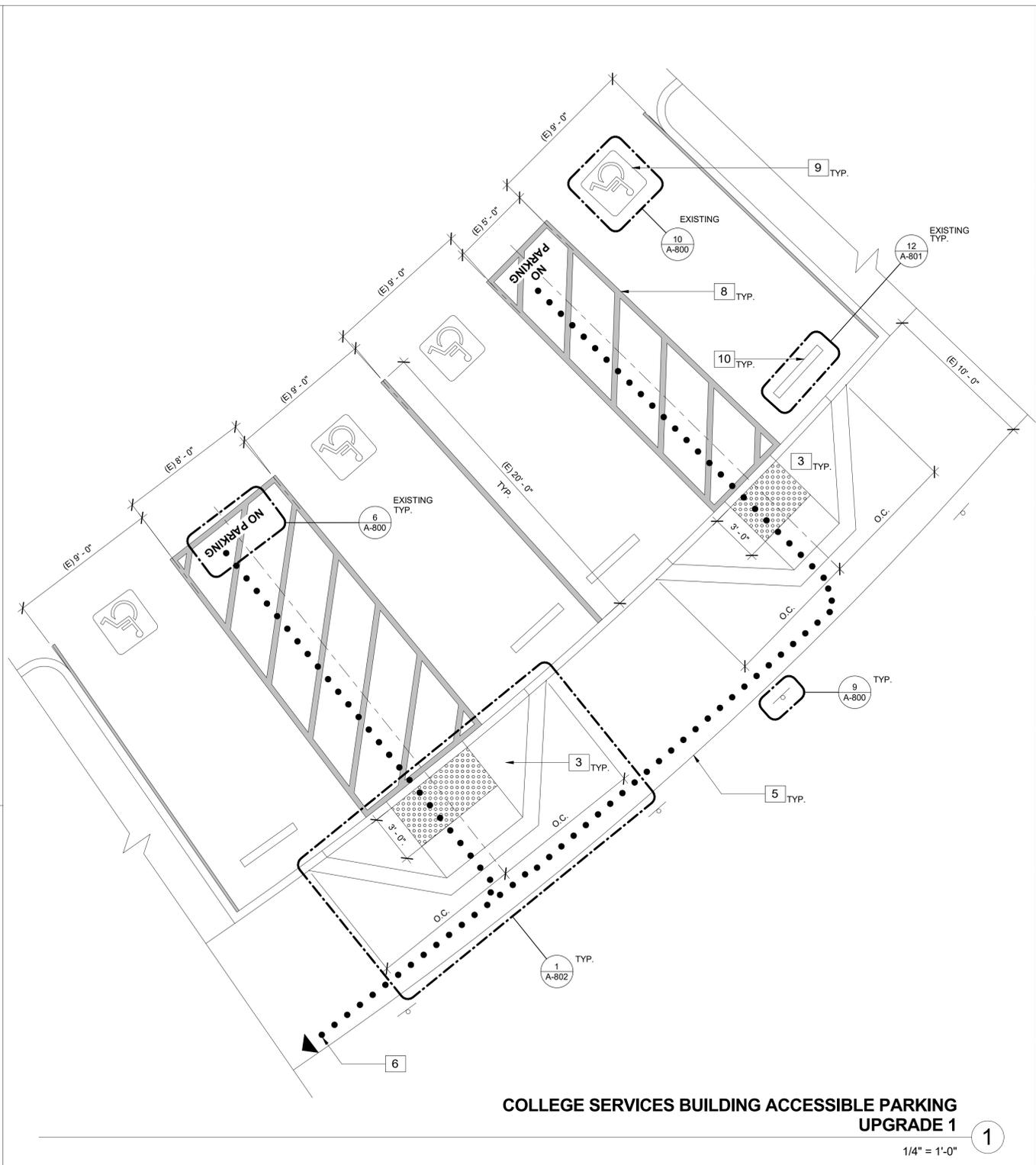
G-005



COLLEGE SERVICES BUILDING ACCESSIBLE PARKING UPGRADE 2
1/4" = 1'-0" ②



COLLEGE SERVICES BUILDING ACCESSIBLE PARKING UPGRADE 3
1/4" = 1'-0" ③



COLLEGE SERVICES BUILDING ACCESSIBLE PARKING UPGRADE 1
1/4" = 1'-0" ①

KEYNOTES

- 1 NEW P.O.T. PAVING FLUSH WITH PARKING SURFACE
- 2 NOT USED
- 3 NEW CONCRETE ACCESSIBLE CURB RAMP
- 4 RELOCATED ACCESSIBLE STALL SIGNAGE LOCATION
- 5 EXISTING WALKWAY TO REMAIN, N.I.C.
- 6 P.O.T. TO COLLEGE SERVICES BUILDING, SEE G-003
- 7 NOT USED
- 8 EXISTING BLUE STRIPING TO REMAIN, N.I.C.
- 9 EXISTING DISABLED PARKING SIGNAGE, N.I.C.
- 10 EXISTING WHEEL STOP TO REMAIN, N.I.C.

LEGEND

- EXISTING ACCESSIBLE PATH OF TRAVEL
- [Hatched Box] AREA TO BE DEMOLISHED

ACCESSIBLE PATH OF TRAVEL AS DEFINED BELOW:

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES THAT WILL BE GREATER THEN 1/2" WHEN CHANGES TO OCCUR, THEY SHALL BE BEVELED WITH A MAX. SLOPE OF 1:2. LEVEL CHANGES LESS THAN A 1/4" MAX MAY BE VERTICAL, AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. THE MAXIMUM PERMITTED CROSS SLOPE SHALL NOT EXCEED 1:48, AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, IF GREATER THAN 5% THEY MUST COMPLY RAMP REQUIREMENTS PER SECTION 11B-402.2. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

CLIENT

PALO VERDE COLLEGE
WHERE KNOWLEDGE TAKES ROOT AND OPPORTUNITY GROWS

Palo Verde Community College District
1 College Drive
Blythe, CA 92225

PROJECT NAME

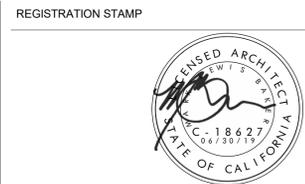
**Project 2
College Services Building
1 College Drive
Blythe, CA 92225**

CONTRACTOR

DESIGNER

SILLMAN WRIGHT ARCHITECTS
31045 Temecula Parkway Suite 204
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CONSULTANTS



ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.: 17009
DRAWN BY: JA/NH
CHECKED BY: MS
SCALE: 1/4" = 1'-0"
DESIGN ITERATION: 10/06/17
DSA Submittal: 10/06/2017

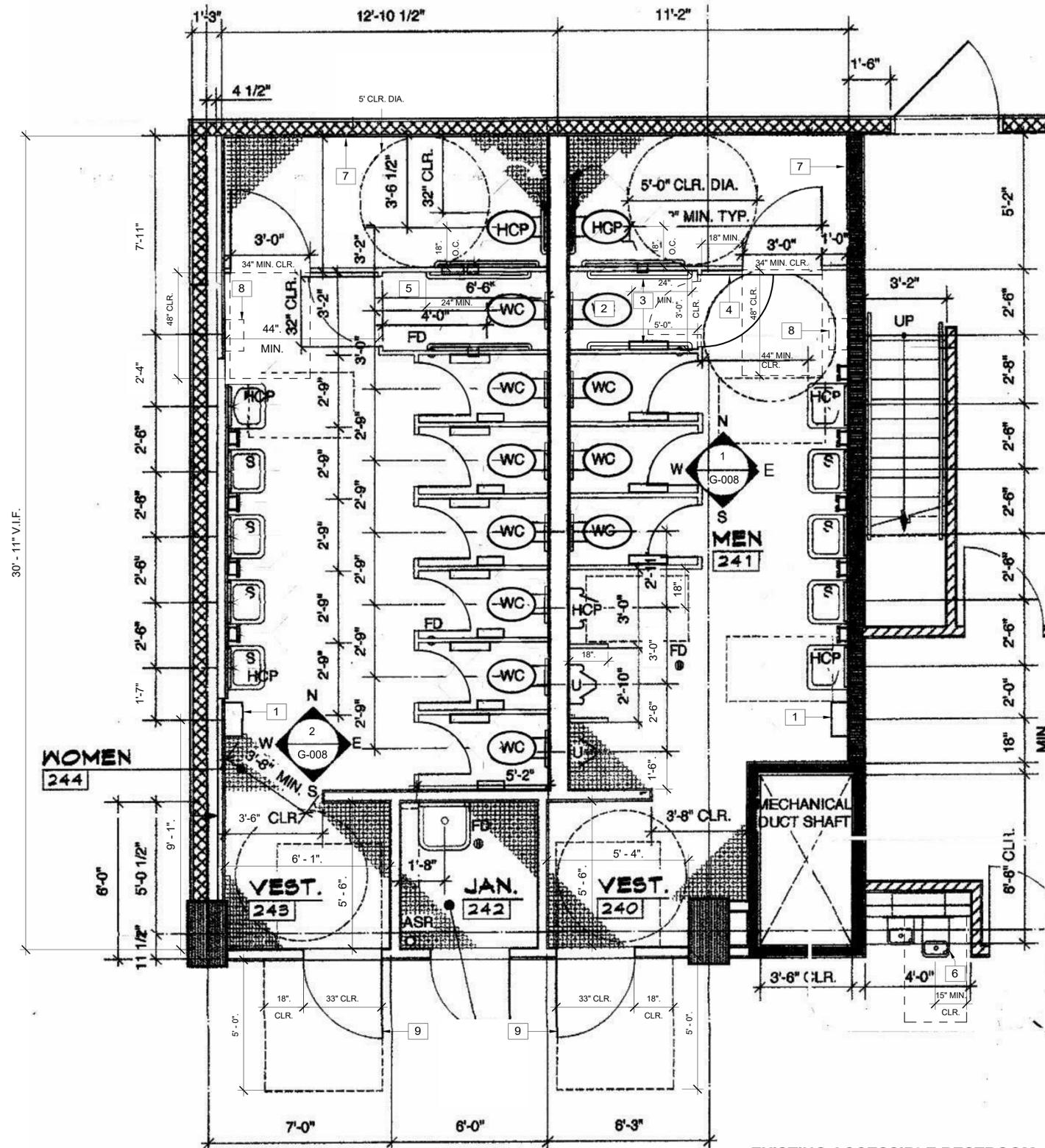
DATE: 10/06/17

SHEET TITLE

CS BUILDING ACCESSIBLE PARKING UPGRADE

SHEET NUMBER

G-006



30' - 11" V.I.F.

EXISTING ACCESSIBLE RESTROOM 1
1" = 1'-0"

KEYNOTES

- 1 REPLACE EXISTING PAPER TOWEL DISPENSER WITH NEW 4" DEEP MAX. PAPER TOWEL DISPENSER BY BOBRICK MODEL: B-262
- 2 CONVERT EXISTING STALL TO AMBULATORY STALL
- 3 NEW 42" GRAB BAR, EA SIDE, SEE 4/A-800
- 4 NEW PARTITION DOOR PER SPECIFICATIONS
- 5 EXISTING AMBULATORY STALL TO REMAIN
- 6 EXISTING ACCESSIBLE DRINKING FOUNTAIN CONFORMS WITH ALL ACCESSIBLE CLEARANCE REQUIREMENTS AS SHOWN IN DETAIL 3/A-800
- 7 REMOVE EXISTING BABY CHANGING STATIONS FROM ACCESSIBLE STALL, AND REPAIR/PATCH WALL TO MATCH EXISTING WALL
- 8 REMOVE EXISTING PAPER TOWEL DISPENSER, REPAIR/PATCH WALL TO MATCH EXISTING WALL
- 9 ADJUST DOOR CLOSER SO THAT FORCE REQUIRED TO OPEN DOOR IS < 5 LBS.

CLIENT

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CONSULTANTS

REGISTRATION STAMP

ISSUE

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DESIGN ITERATION: 10/06/17
DSA Submittal: 10/06/2017

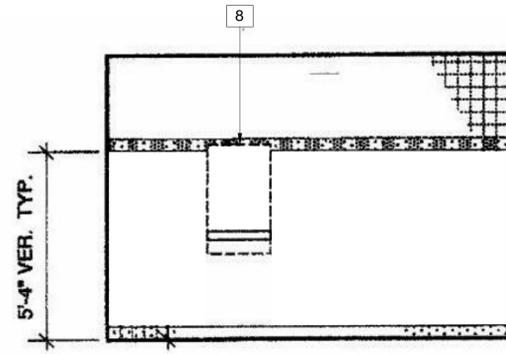
DATE: 10/06/17

SHEET TITLE

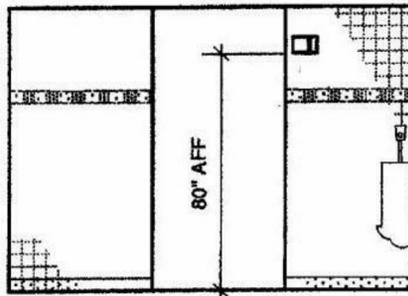
EXISTING ACCESSIBLE RESTROOMS

SHEET NUMBER

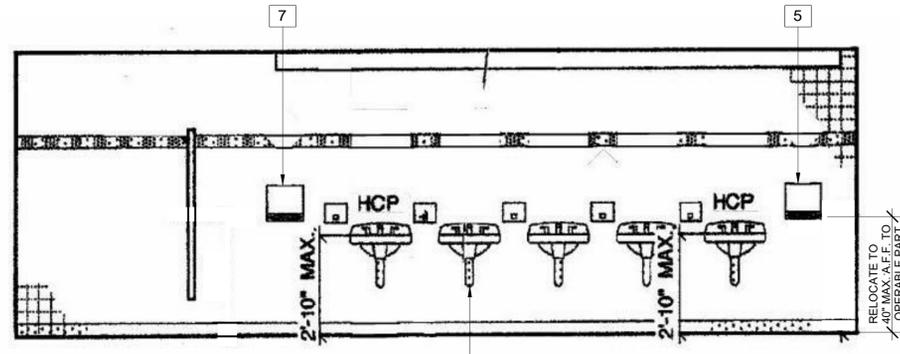
G-007



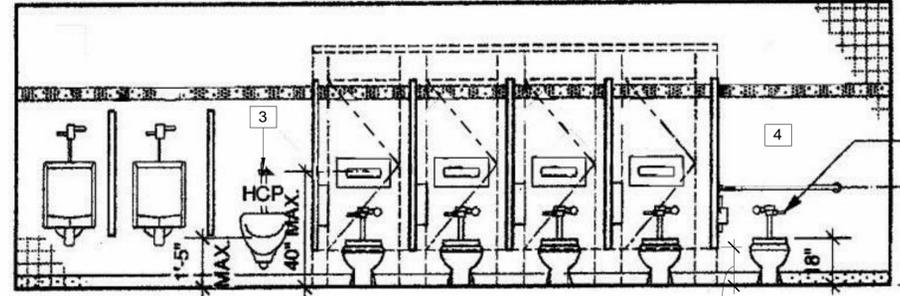
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M

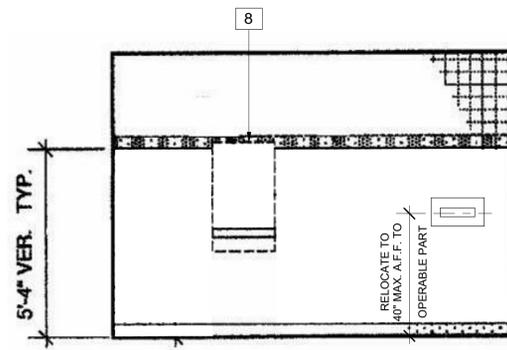


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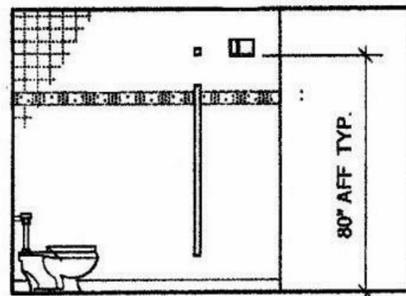
FLUSH VALVE @ WIDE SIDE, TYPICAL

INTERIOR ELEVATION MEN'S RESTROOM

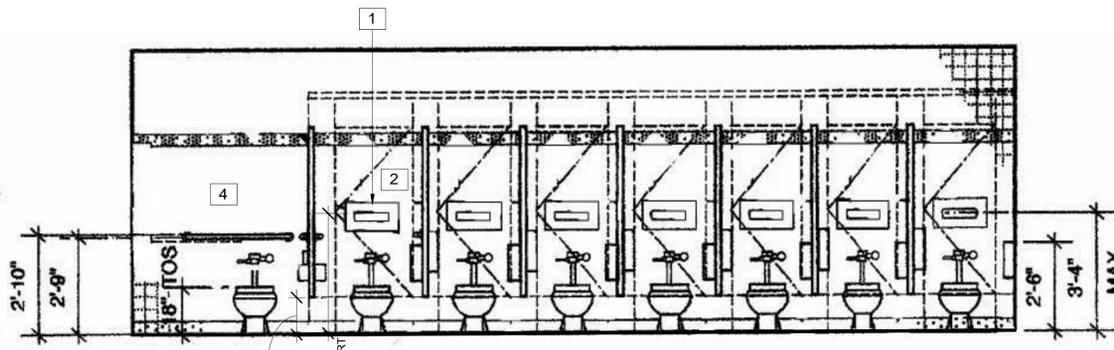
NTS 1



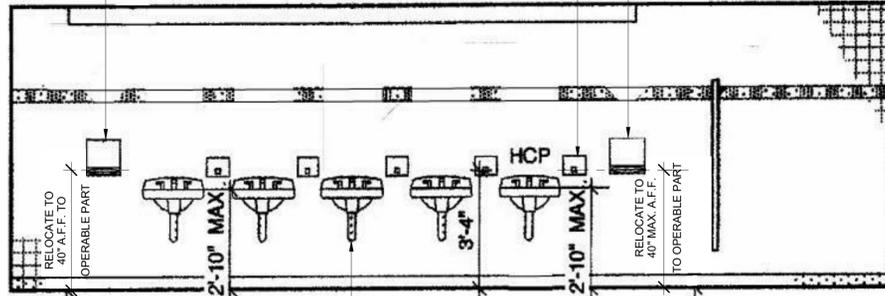
Z



U



N



M

INTERIOR ELEVATIONS WOMEN'S RESTROOM

NTS 2

KEYNOTES

- 1 RELOCATE EXISTING SEAT COVER DISPENSER
- 2 EXISTING AMBULATORY STALL
- 3 EXISTING ACCESSIBLE URINAL
- 4 EXISTING ACCESSIBLE STALL, CLEARANCES PER 41A-800
- 5 REPLACE EXISTING PAPER TOWEL DISPENSER WITH NEW 4" DEEP MAX. PAPER TOWER DISPENSER BY BOBRICK MODEL: B-262. REPAIR/PATCH WALL TO MATCH EXISTING AS NEEDED.
- 6 RELOCATE EXISTING SOAP DISPENSER, REPAIR/PATCH WALL TO MATCH EXISTING AS NEEDED
- 7 REMOVE EXISTING TOWEL DISPENSER AND REPAIR/PATCH WALL TO MATCH EXISTING WALL
- 8 REMOVE EXISTING DIAPER CHANGING STATION, REPAIR/PATCH WALL TO MATCH EXISTING WALL
- 9 ALL WATER PIPES AND DRAIN PIPES SHALL BE INSULATED, WITH NO SHARP EDGES

CLIENT



Palo Verde Community College District
1 College Drive
Blythe, CA 92225

PROJECT NAME

Project 2
College Services Building
1 College Drive
Blythe, CA 92225

CONTRACTOR

DESIGNER



CONSULTANTS

REGISTRATION STAMP



ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.: 17009

DRAWN BY: JJA/NH

CHECKED BY: MS

SCALE: As indicated

DESIGN ITERATION 10/06/17

DSA Submittal 10/06/2017

DATE 10/06/17

SHEET TITLE

EXISTING
INTERIOR
RESTROOM
ELEVATIONS

SHEET NUMBER

G-008

CLIENT



Palo Verde Community College District
1 College Drive
Blythe, CA 92225

PROJECT NAME

Project 2
College Services Building
1 College Drive
Blythe, CA 92225

CONTRACTOR

DESIGNER



CONSULTANTS

REGISTRATION STAMP



ISSUE

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DRAWN BY: JA/NH

CHECKED BY: MS

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

DESIGN ITERATION 10/06/17

DSA Submittal 10/06/2017

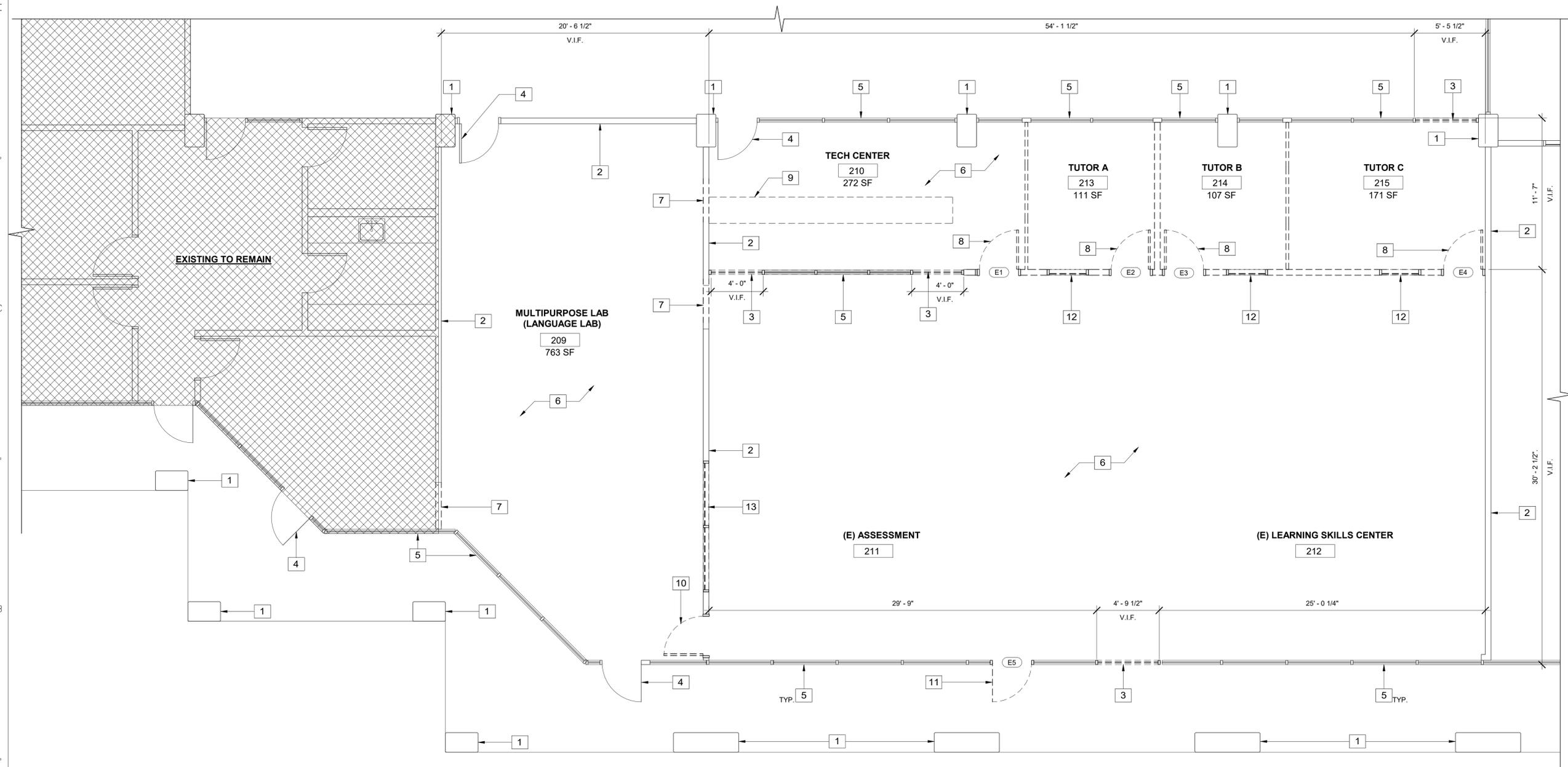
DATE 10/06/17

SHEET TITLE

DEMO FLOOR PLAN

SHEET NUMBER

A-200



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



KEYNOTES

- | | |
|--|---|
| 1 EXISTING COLUMN TO REMAIN | 12 RELOCATE EXISTING WINDOWS TO NEW LOCATON PER A-201 |
| 2 EXISTING WALL TO REMAIN | 13 REMOVE EXISTING WINDOW |
| 3 PORTION OF EXISTING STOREFRONT TO BE REMOVED FOR NEW DOOR | |
| 4 EXISTING DOOR TO REMAIN | |
| 5 EXISTING STOREFRONT TO REMAIN | |
| 6 EXISTING FLOOR FINISH TO REMAIN - U.N.O. | |
| 7 PORTION OF EXISTING WALL TO BE REMOVED FOR NEW DOOR | |
| 8 RELOCATE EXISTING DOOR TO NEW LOCATION PER A-201 - U.N.O. | |
| 9 REMOVE EXISTING CASEWORK | |
| 10 REMOVE EXISTING DOOR | |
| 11 RELOCATE EXISTING DOOR TO NEW LOCATION -INFILL EXISTING STOREFRONT DOOR OPENING WITH STOREFRONT GLAZING TO MATCH ADJACENT | |

DEMO LEGEND

- | | |
|--|--------------------------------|
| | EXISTING WALL TO REMAIN |
| | EXISTING WALL TO BE DEMOLISHED |
| | EXISTING TO REMAIN, N.I.C. |



Mark	Date	Description

DESIGNER PROJECT NO.: 17009

DRAWN BY: JA/NH

CHECKED BY: MS

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

DESIGN ITERATION 10/06/17

DSA Submittal 10/06/2017

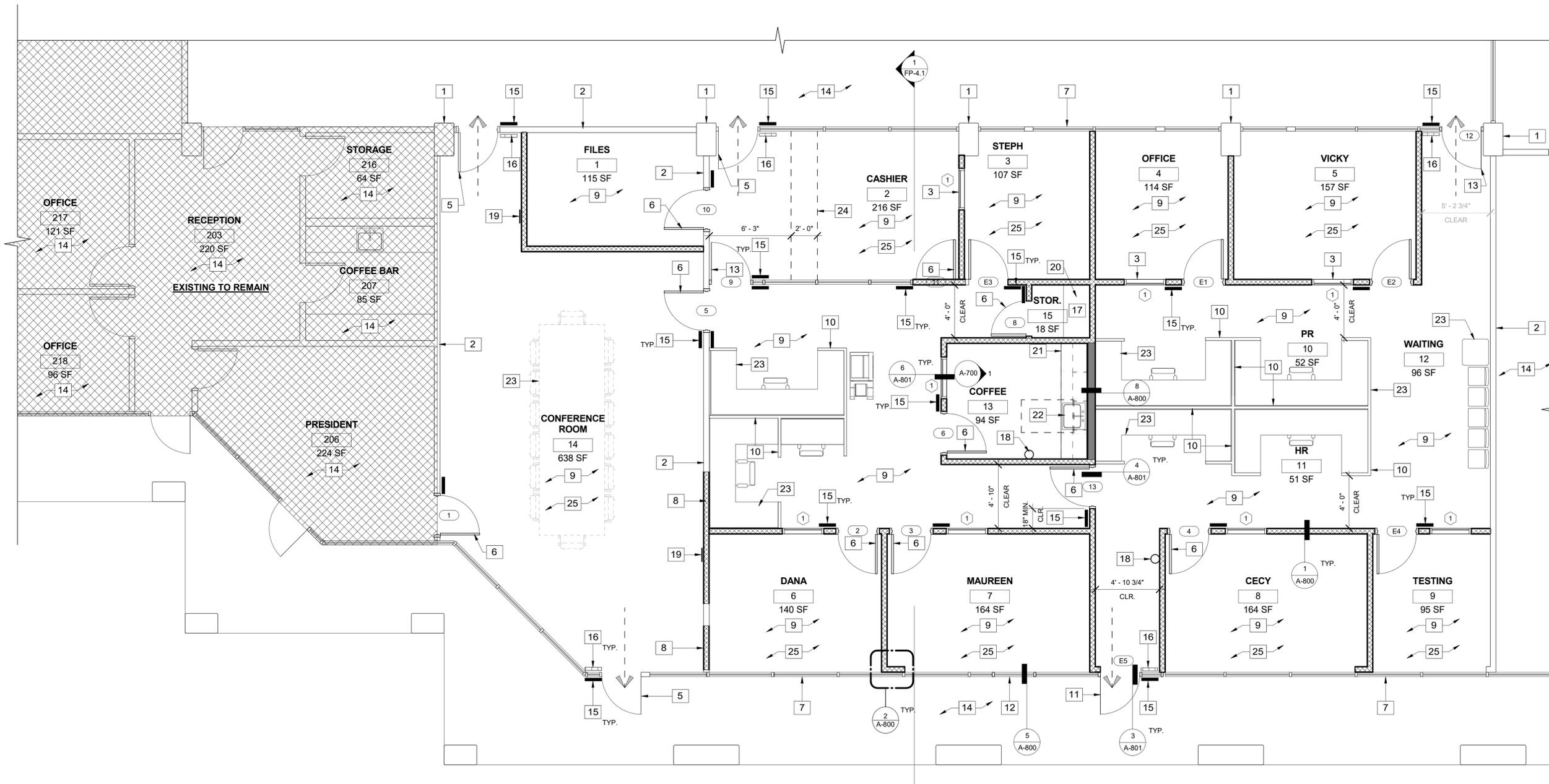
DATE 10/06/17

SHEET TITLE

PROPOSED FLOOR PLAN

SHEET NUMBER

A-201



PROPOSED FLOOR PLAN 1
1/4" = 1'-0"

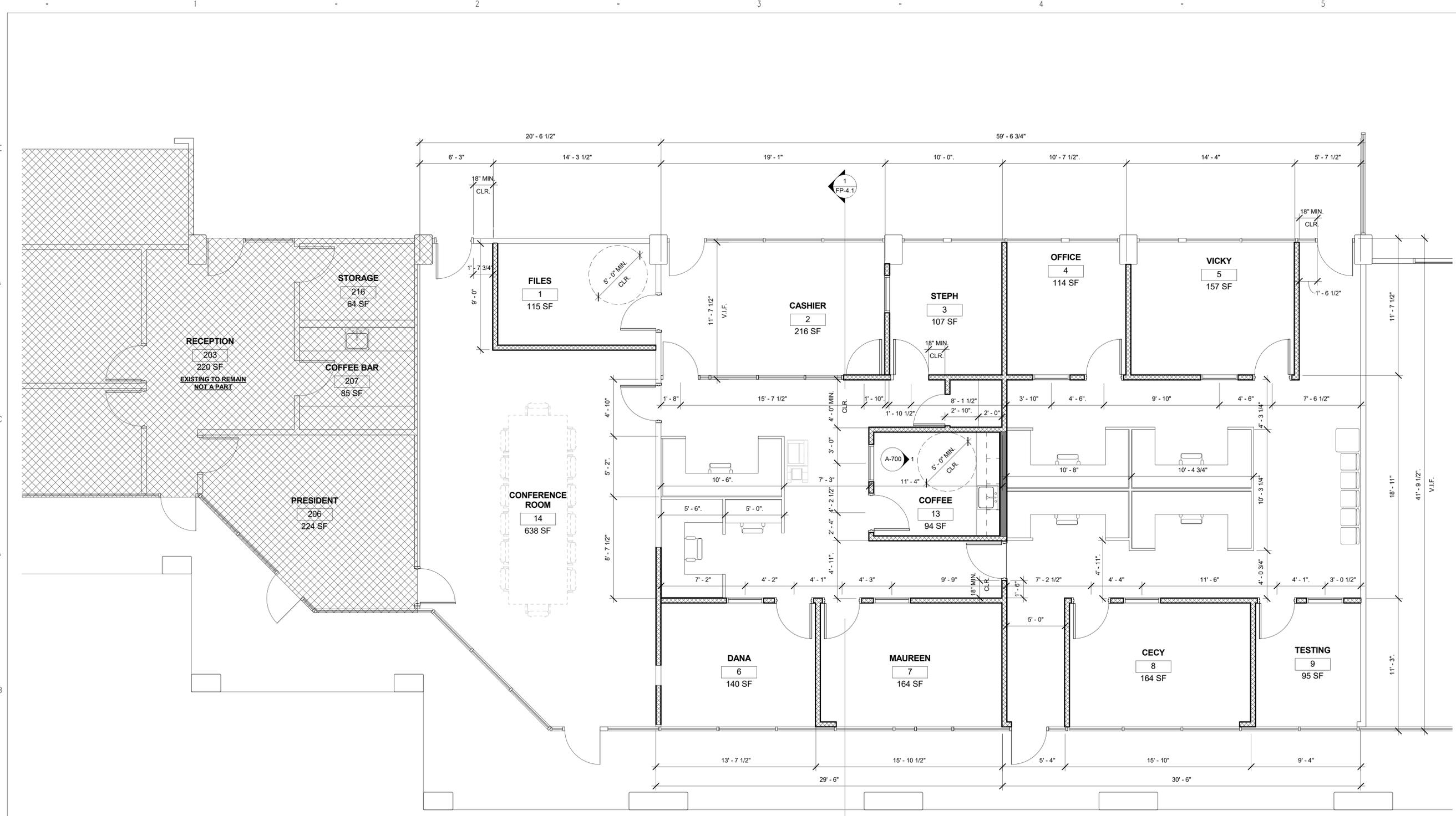


KEYNOTES

- | | | |
|---|--|---|
| 1 EXISTING COLUMN TO REMAIN | 12 INFILL STOREFRONT GLAZING AT (E) DOOR LOCATION TO MATCH ADJACENT, PER 5/A-800 | 21 NEW PLASTIC-LAMINATE CASEWORK PER SPECIFICATIONS |
| 2 EXISTING WALL TO REMAIN | 13 NEW STOREFRONT DOOR TO MATCH EXISTING STOREFRONT PER SCHEDULE | 22 NEW SINK PER PLUMBING PLANS |
| 3 NEW LOCATION OF RELOCATED OFFICE WINDOW | 14 NOT IN CONTRACT | 23 NEW FURNITURE PROVIDED BY PVC, N.I.C. |
| 4 NOT USED | 15 NEW TACTILE ROOM I.D. SIGN, SEE 4/A-802 | 24 RECEPTIONIST COUNTER WITH UNDER CABINETS PROVIDED BY PVC, N.I.C. |
| 5 EXISTING DOOR TO REMAIN | 16 NEW EXIT SIGNAGE, SEE 3/A-802 | 25 PROVIDE NEW BATT INSULATION ABOVE, PER 1/A-800 |
| 6 NEW DOOR PER SCHEDULE | 17 NEW 24"-DEEP SHELVING IN STORAGE CABINET | |
| 7 EXISTING STOREFRONT TO REMAIN | 18 NEW FIRE EXTINGUISHER | |
| 8 INFILL WALL TO MATCH EXISTING ADJACENT | 19 PROVIDE ASSITIVE-LISTENING DEVICE SIGNAGE PER DETAIL 6/A-802 | |
| 9 EXISTING FLOOR FINISH TO REMAIN, PATCH AND REPAIR AS NECESSARY. RESILIENT BASE PROVIDED BY OWNER AFTER CONSTRUCTION. N.I.C. | 20 PORTABLE ASSITIVE-LISTENING DEVICE STORAGE LOCATION | |
| 10 NEW PARTIAL HEIGHT CUBICLE PARTITION. PROVIDED AND INSTALLED BY PVC | | |
| 11 NEW LOCATION OF RELOCATED STOREFRONT DOOR | | |

LEGEND

- EXISTING WALL TO REMAIN
- NEW METAL STUD WALL WITH 5/8" GYP BD BOTH SIDES, SEE DETAIL 1/A-800 & STRUCTURAL PLANS
- NEW METAL STUD PLUMBING WALL WITH 5/8" GYP BD ON OUTSIDE FACE AND W.P. GREEN BOARD IN THE INSIDE/PLUMBING FACE, SEE DETAIL 8/A-800 & STRUCTURAL PLANS
- EGRESS PATH OF TRAVEL
- EXISTING TO REMAIN, N.I.C.
- NEW TACTILE ROOM I.D. PER 4/A-802
- NEW EXIT SIGNAGE PER 3/A-802



PROPOSED FLOOR PLAN -DIMENSIONS 1
1/4" = 1'-0"

LEGEND

- EXISTING WALL TO REMAIN
- NEW METAL STUD WALL WITH 5/8" GYP BD BOTH SIDES. SEE DETAIL 1/A-800 & STRUCTURAL PLANS
- NEW METAL STUD PLUMBING WALL WITH 5/8" GYP BD ON OUTSIDE FACE AND W.P. GREEN BOARD IN THE INSIDE/PLUMBING FACE. SEE DETAIL 8/A-800 & STRUCTURAL PLANS
- EGRESS PATH OF TRAVEL
- EXISTING TO REMAIN, N.I.C.
- NEW TACTILE ROOM I.D. PER 4/A-802
- NEW EXIT SIGNAGE PER 3/A-802

CLIENT



Palo Verde Community College District
1 College Drive
Blythe, CA 92225

PROJECT NAME

Project 2
College Services Building
1 College Drive
Blythe, CA 92225

CONTRACTOR

DESIGNER



CONSULTANTS

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

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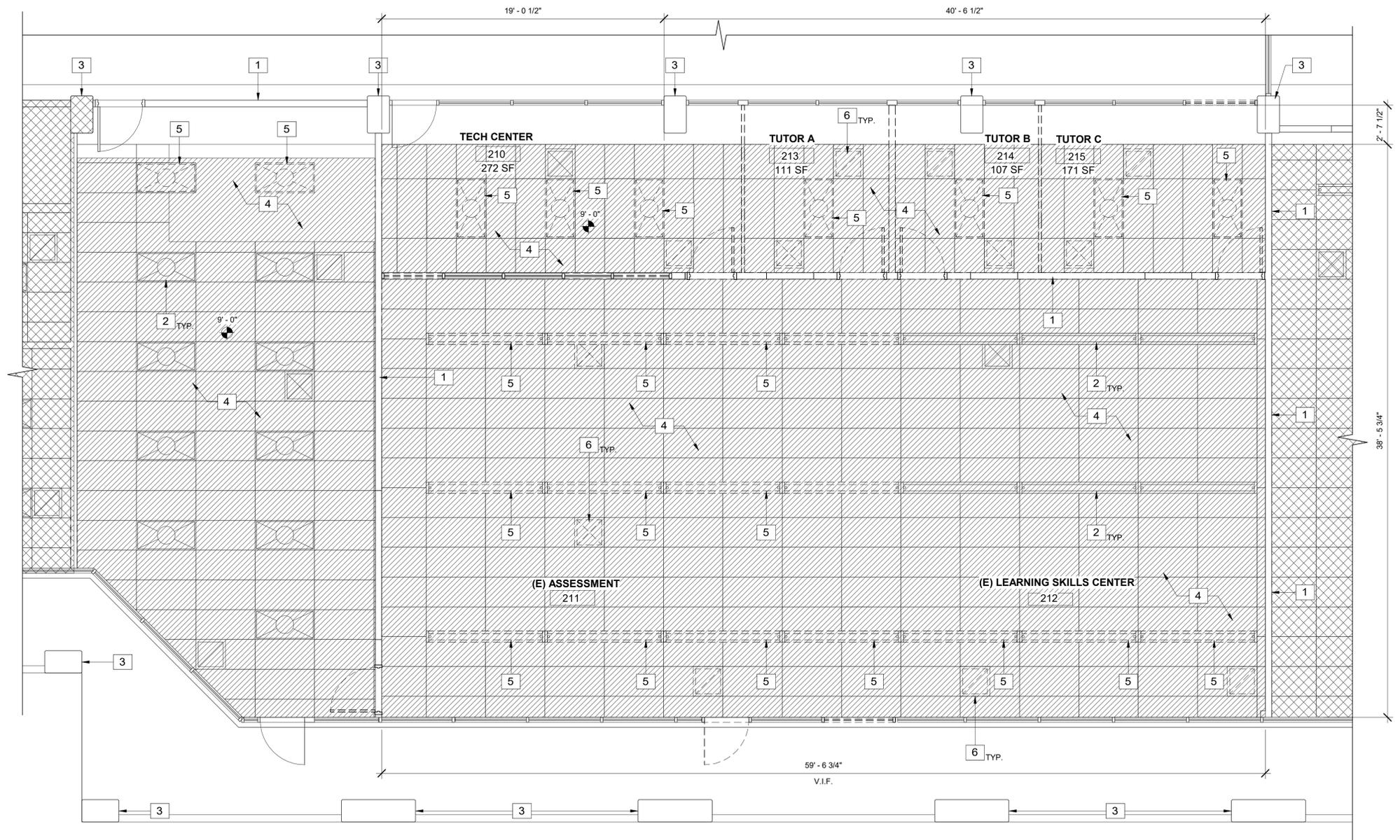
DATE 10/06/17

SHEET TITLE

PROPOSED FLOOR PLAN -DIMENSIONS

SHEET NUMBER

A-201.1



DEMOLITION CEILING PLAN ①
1/4" = 1'-0"

KEYNOTES		LEGEND	
1	EXISTING WALL TO REMAIN, TYP.		EXISTING WALL TO REMAIN
2	EXISTING LIGHT FIXTURES TO REMAIN, U.N.O.		EXISTING PORTION OF CEILING TO BE REMOVED.
3	EXISTING COLUMNS TO REMAIN		EXISTING CEILING TO REMAIN
4	EXISTING PORTION OF CEILING TO BE REMOVED.		EXISTING TO REMAIN 2X4 LIGHT FIXTURE
5	EXISTING LIGHT TO BE REMOVED. REFER TO PROPOSED CEILING PLAN FOR NEW LOCATION IF APPLICABLE - RELINQUISH EXCESS TO PVCC		EXISTING TO REMAIN 2X2 LIGHT FIXTURE
6	EXISTING MECHANICAL REGISTER TO BE REMOVED. REFER TO MECHANICAL PLANS FOR NEW LOCATIONS		EXISTING PENDANT LIGHT FIXTURE - REFER TO 7/A-804 & 15/S2.0 FOR BRACING INFO

CLIENT



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

DESIGN ITERATION 10/06/17

DSA Submittal 10/06/2017

DATE 10/06/17

SHEET TITLE

DEMO CEILING PLAN

SHEET NUMBER

A-202



PROPOSED CEILING PLAN
1/4" = 1'-0" 1

CLIENT



Palo Verde Community College District
1 College Drive
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PROJECT NAME

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Blythe, CA 92225

CONTRACTOR

DESIGNER



CONSULTANTS

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DESIGNER PROJECT NO.: 17009

DRAWN BY: Author

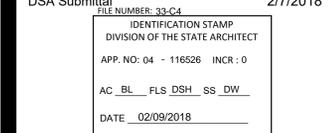
CHECKED BY: Checker

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

DESIGN ITERATION 10/06/17

DSA Submittal 10/06/2017

DSA Submittal 2/7/2018



DATE 2/7/2018

SHEET TITLE

PROPOSED CEILING PLAN

SHEET NUMBER

A-203

KEYNOTES

- 1 NEW LIGHT FIXTURE -SEE ELECTRICAL DRAWINGS - REUSE EXISTING LIGHT FIXTURE IF APPLICABLE
- 2 NEW A.C.T. PER DETAILS 2/A-804 SEE ACCOUSTIC CEILING NOTES PER 1/A-804
- 3 MECHANICAL REGISTER PER MECHANICAL DRAWINGS
- 4 NEW GYP BD CEILING SEE STRUCTURAL PLANS - S1.0 & 4/S2.0
- 5 EXISTING GYP BD SOFFIT TO REMAIN

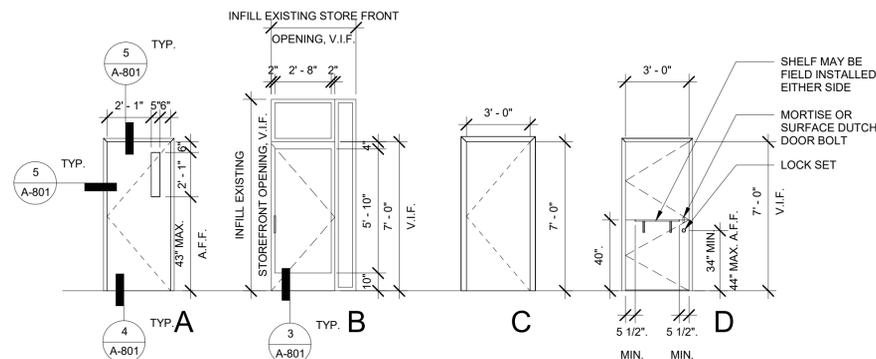
LEGEND

- 2X4 LIGHT FIXTURE
- 2X2 LIGHT FIXTURE
- EXISTING PENDANT LIGHT FIXTURE - REFER TO 7/A-804 & 15/S2.0 FOR BRACING INFO
- 6" RECESSED CAN LIGHT
- MECHANICAL RETURN REGISTER SEE MECHANICAL PLANS - REFER TO 7/A-804 & 14/S2.0 FOR DUCT ANCHORAGE AND 13/S2.0 FOR VAV BOX ANCHORAGE
- MECHANICAL SUPPLY REGISTER, SEE MECHANICAL PLANS - REFER TO 7/A-804 & 14/S2.0 FOR DUCT ANCHORAGE AND 13/S2.0 FOR VAV BOX ANCHORAGE
- EXISTING WALL TO REMAIN
- NEW METAL STUD WALL WITH 5/8" GYP BD BOTH SIDES, SEE DETAIL 1/A-800 & STRUCTURAL PLANS
- NEW METAL STUD PLUMBING WALL WITH 5/8" GYP BD ON OUTSIDE FACE AND W.P. GREEN BOARD IN THE INSIDE/PLUMBING FACE, SEE DETAIL 8/A-800 & STRUCTURAL PLANS
- EXISTING PORTION OF CEILING TO BE REMOVED.
- NEW T-BAR CEILING WITH ACOUSTIC TILE TO MATCH EXISTING. SEE 2/A-804
- EXISTING CEILING TO REMAIN

DOOR SCHEDULE							
Mark	Width	Height	Finish	Frame Material	Elevation	H.W. Group	Remarks - (ALL EXISTING DOORS & HARDWARE PER A04-10074)
1	3' - 0"	7' - 0"	SC	HM	A	01	
2	3' - 0"	7' - 0"	SC	HM	A	X05	
3	3' - 0"	7' - 0"	SC	HM	A	02	
4	3' - 0"	7' - 0"	SC	HM	A	02	
5	3' - 0"	7' - 0"	SC	HM	A	05	
6	3' - 0"	7' - 0"	SC	HM	A	03	
8	2' - 8"	7' - 0"	SC	HM	C	02	
9	3' - 0"	6' - 11"	ALUM SF	ALUM SF	B	06	
10	3' - 0"	7' - 0"	SC	HM	A	04	
11	3' - 0"	7' - 0"	SC	HM	D	07	DUTCH DOOR
12	3' - 0"	6' - 11"	ALUM SF	ALUM SF	B	08	
13	3' - 0"	7' - 0"	SC	HM	A	05	
E1	3' - 0"	7' - 0"	SC	HM	A	09	EXISTING TO BE REUSED, SCHLAGE NEPTUNE LEVER HARDWARE
E2	3' - 0"	7' - 0"	SC	HM	A	09	EXISTING TO BE REUSED, SCHLAGE NEPTUNE LEVER HARDWARE
E3	3' - 0"	7' - 0"	SC	HM	A	09	EXISTING TO BE REUSED, SCHLAGE NEPTUNE LEVER HARDWARE
E4	3' - 0"	7' - 0"	SC	HM	A	09	EXISTING TO BE REUSED, SCHLAGE NEPTUNE LEVER HARDWARE
E5	2' - 11 31/32"	6' - 11"	ALUM SF	ALUM SF	B	09	EXISTING TO BE REUSED

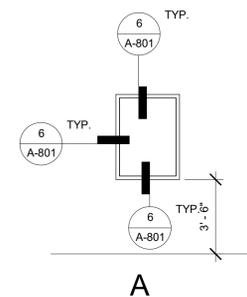
WINDOW SCHEDULE						
Mark	Width	Height	Sill Height	Head Height	Elevation	Comments
1	3' - 2"	4' - 2"	3' - 0"	7' - 2"	A	INOPERABLE HOLLOW METAL, TO MATCH EXISTING

LEGEND:
 SC SOLID CORE
 ALUM ALUMINUM
 HM HOLLOW METAL



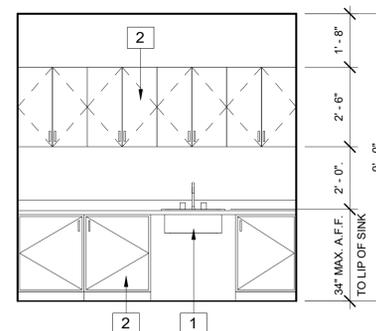
DOOR ELEVATIONS

1/4" = 1'-0"



WINDOW ELEVATIONS

1/4" = 1'-0"



INTERIOR ELEVATION OF COFFEE ROOM

3/8" = 1'-0"

KEYNOTES

- 1 ACCESSIBLE SINK
- 2 PLASTIC LAMINATE FACED CABINET AND COUNTERTOP PER SPECIFICATIONS. PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. SEE 10/S2.0 FOR STRUCTURAL CONNECTION.

CLIENT



Palo Verde Community College District
 1 College Drive
 Blythe, CA 92225

PROJECT NAME

Project 2
 College Services Building
 1 College Drive
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CONTRACTOR

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 www.sillmanwright.com

CONSULTANTS

REGISTRATION STAMP



ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.: 17009

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SCALE: As indicated

DESIGN ITERATION 10/06/17

DSA Submittal 10/06/2017

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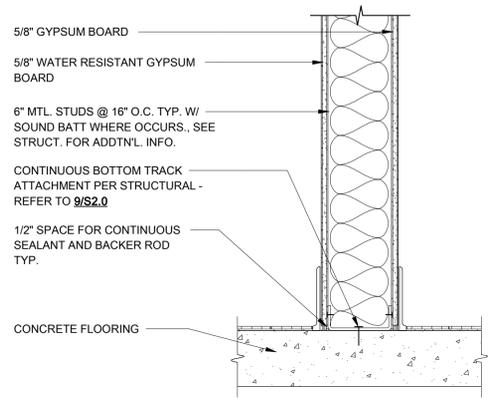
SHEET TITLE

**SCHEDULES &
 INTERIOR
 ELEVATIONS**

SHEET NUMBER

A-700

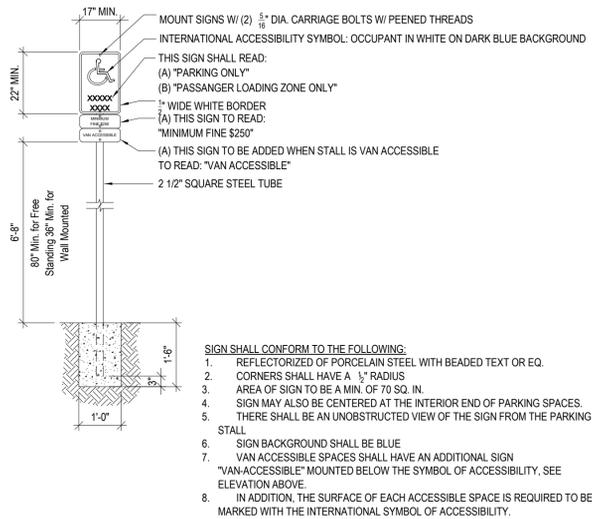
BREAK ROOM



PLUMBING WALL

8

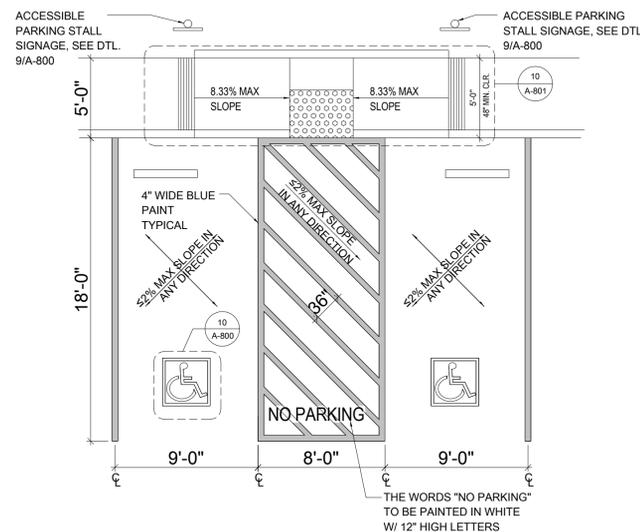
1 1/2" = 1'-0"



ACCESSIBLE STALL SIGNAGE

9

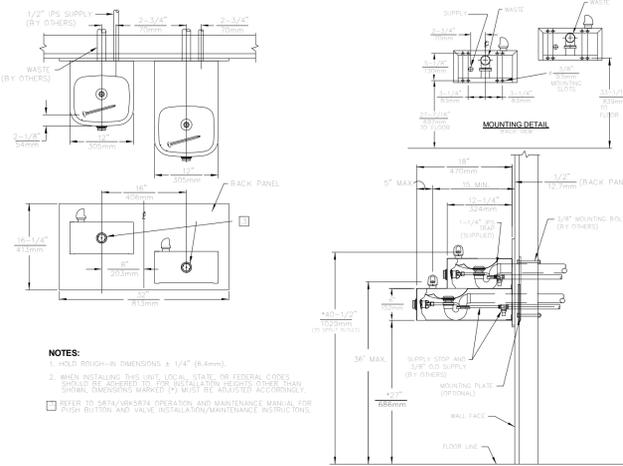
1/2" = 1'-0"



ACCESSIBLE PARKING STALL

6

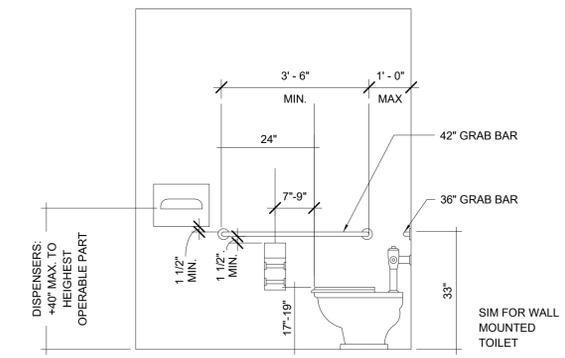
3/16" = 1'-0"



ACCESSIBLE DRINKING FOUNTAIN

3

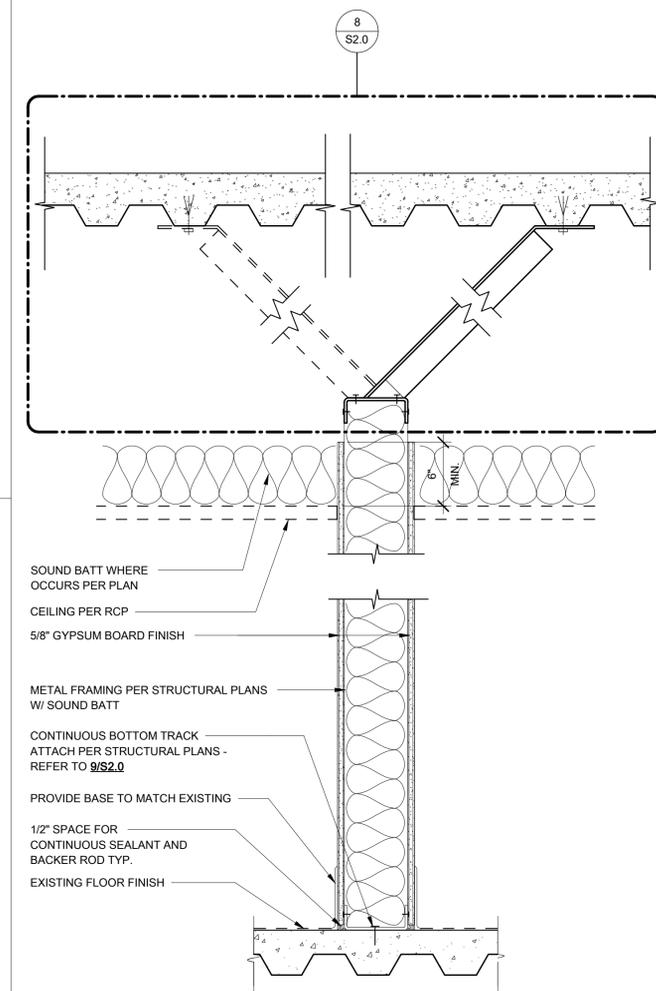
3/4" = 1'-0"



GRAB BAR ELEVATION

4

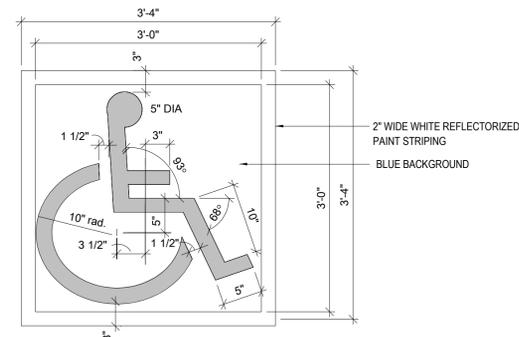
1/2" = 1'-0"



TYP. INT. PARTITION WALL PARTIAL HEIGHT

1

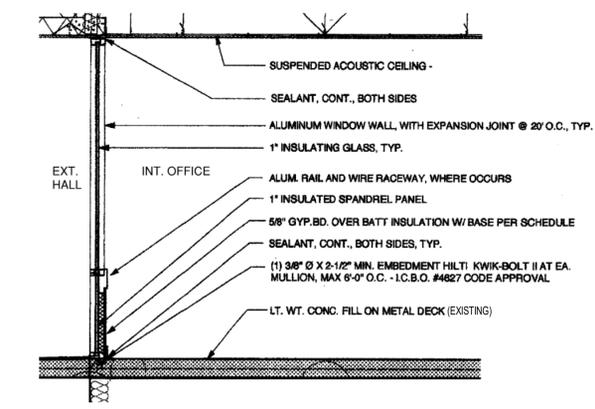
1 1/2" = 1'-0"



DISABLED PARKING SIGNAGE

10

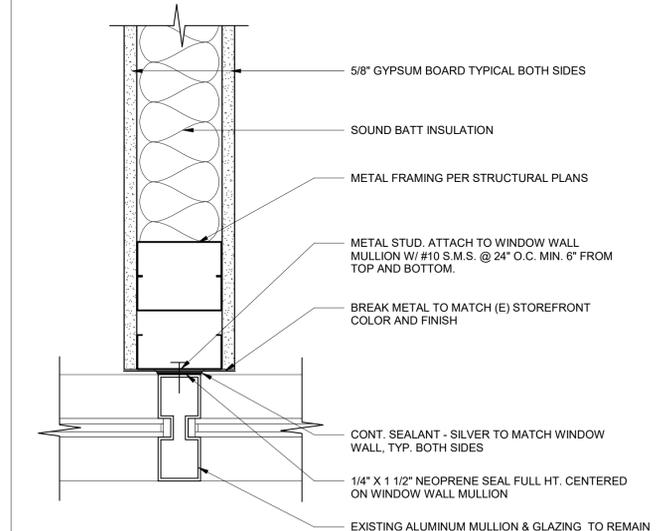
1" = 1'-0"



STOREFRONT AND SHORTWALL DETAIL

5

1 1/2" = 1'-0"



INT. PARTITION WALL TO STOREFRONT MULLION

2

3" = 1'-0"

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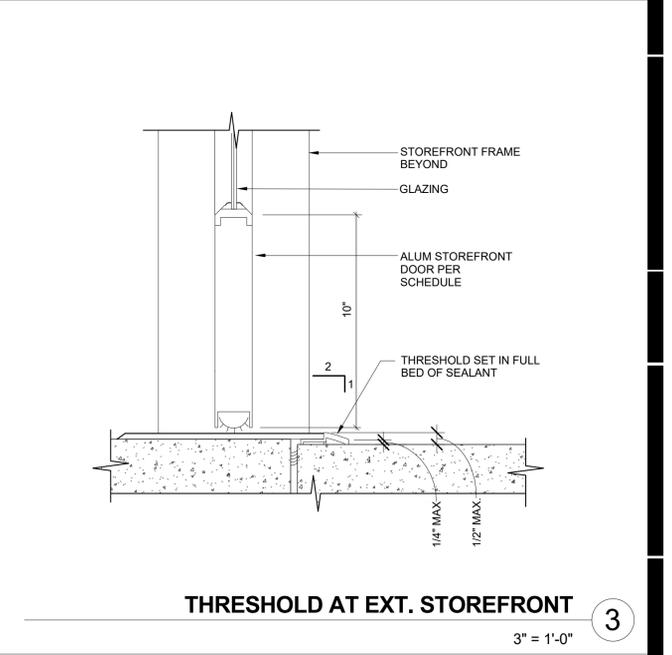
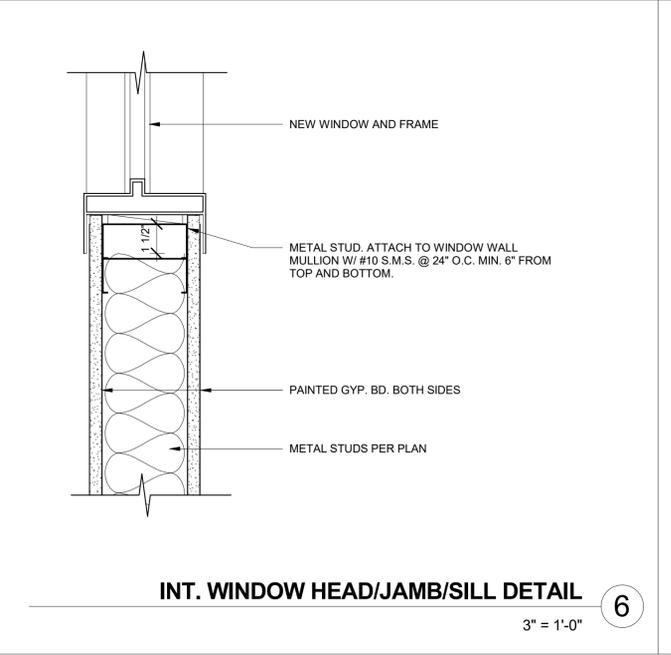
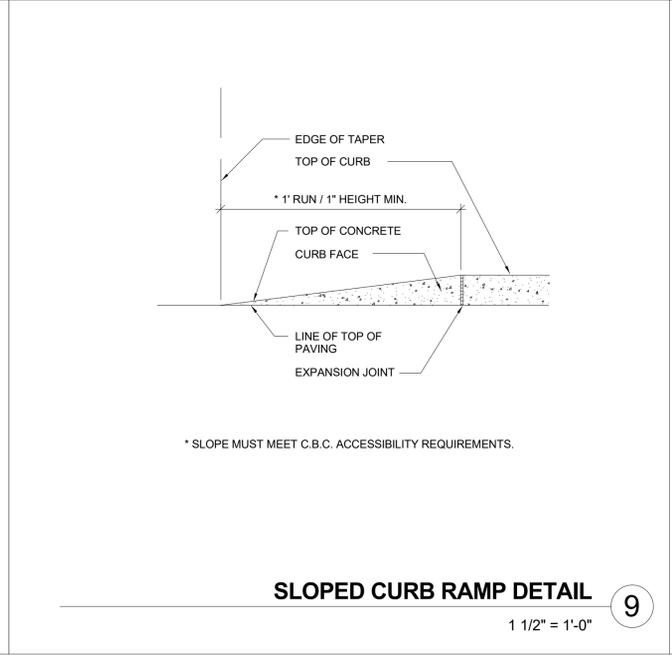
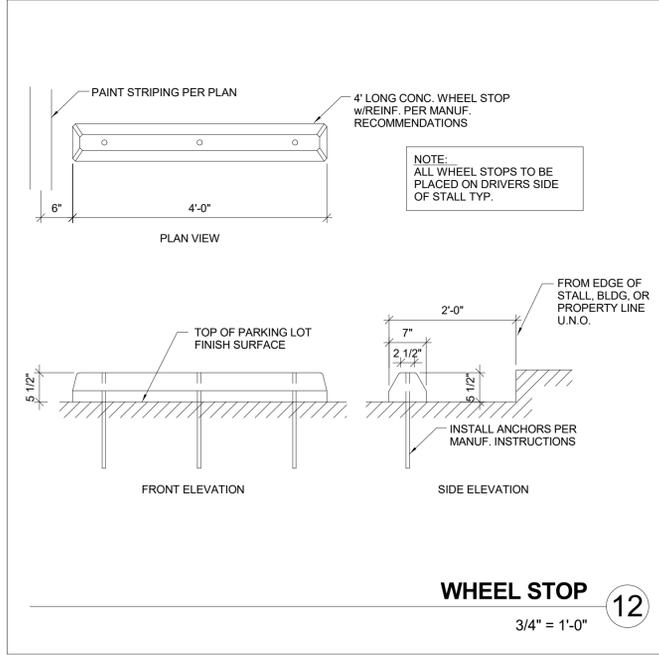
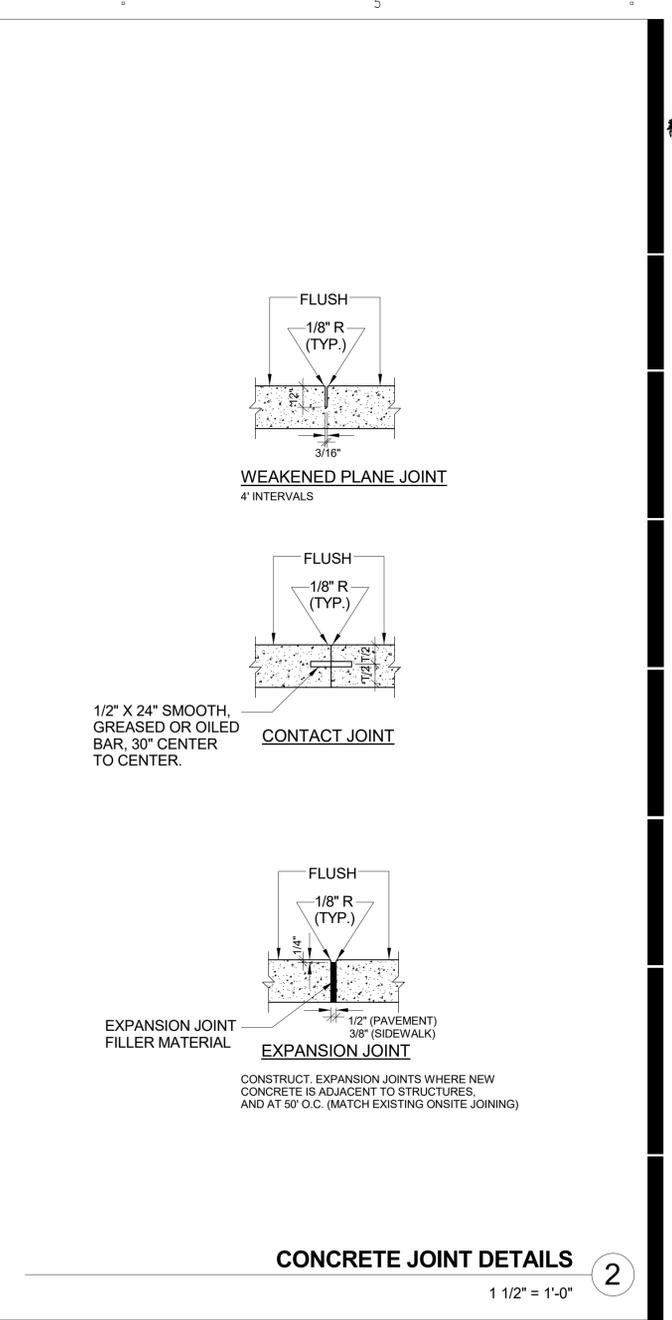
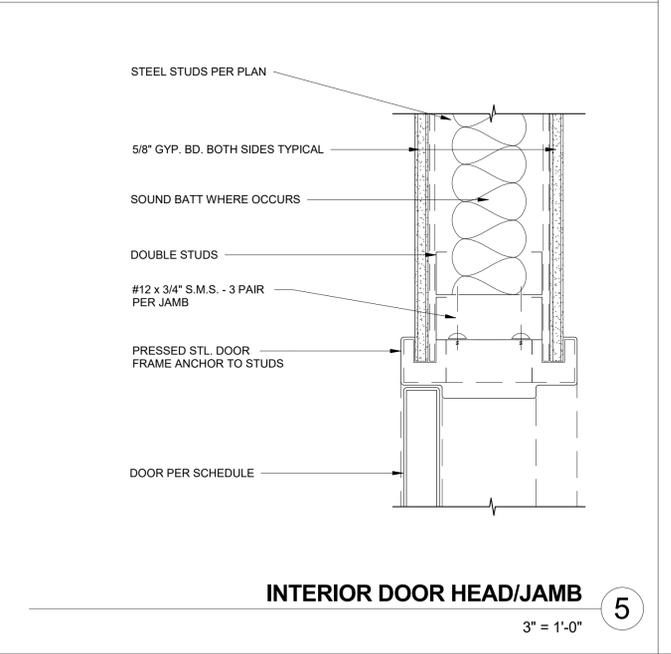
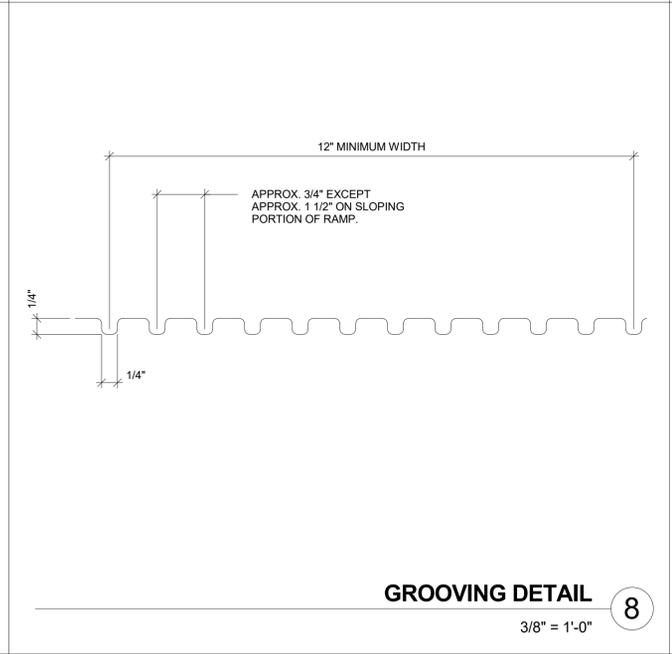
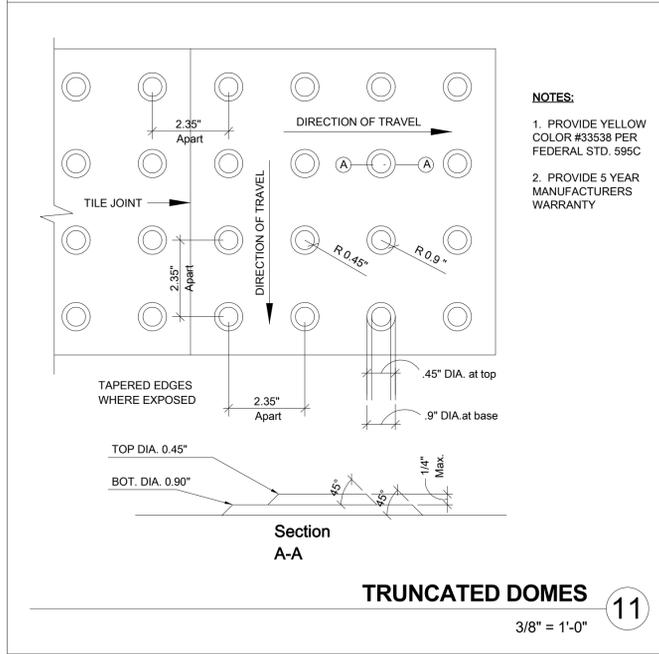
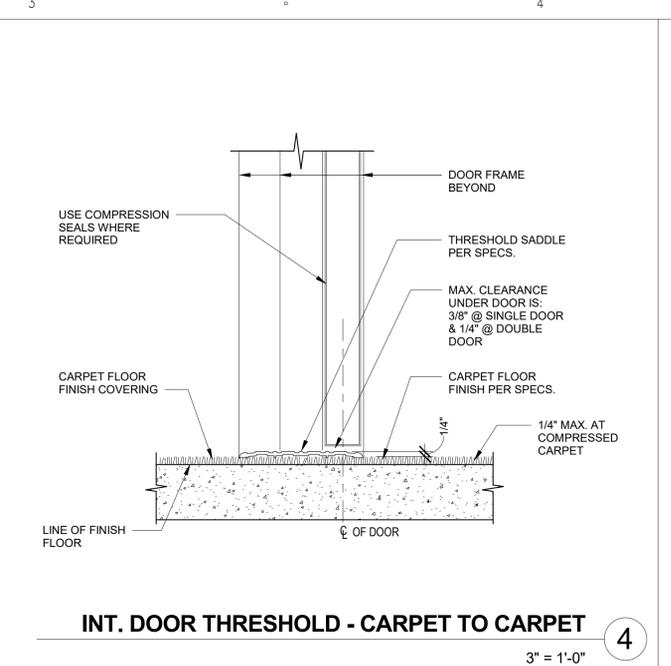
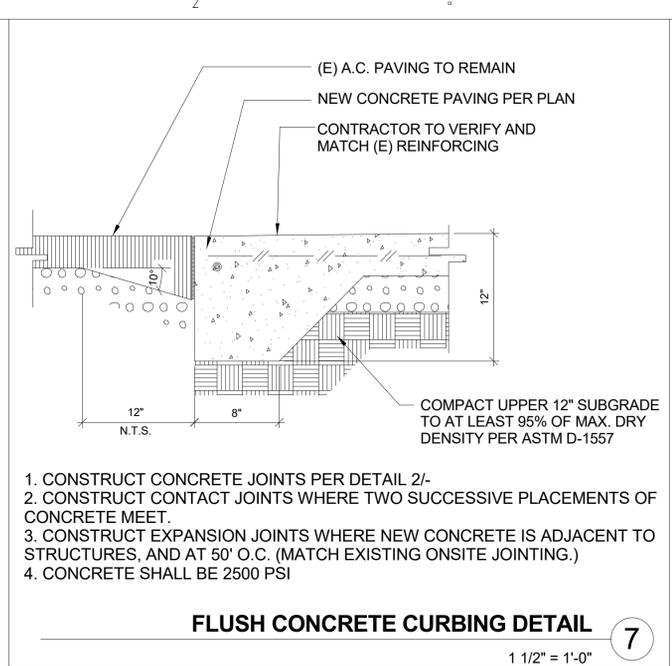
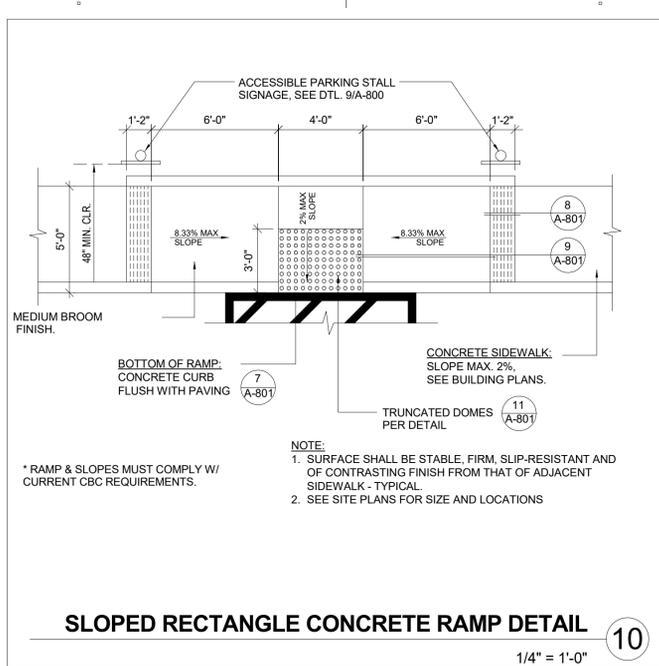
DATE 10/06/17

SHEET TITLE

DETAILS

SHEET NUMBER

A-800



CLIENT

PALO VERDE COLLEGE
WHERE KNOWLEDGE TAKES ROOT AND OPPORTUNITY GROWS

Palo Verde Community College District
1 College Drive
Blythe, CA 92225

PROJECT NAME

**Project 2
College Services Building
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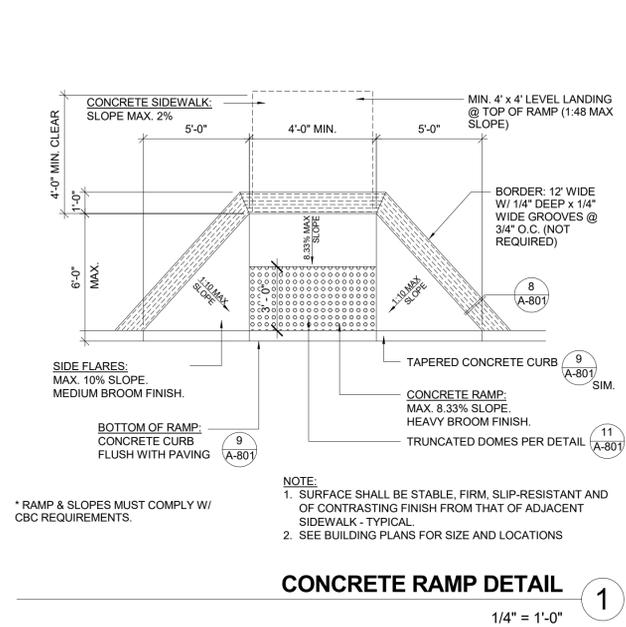
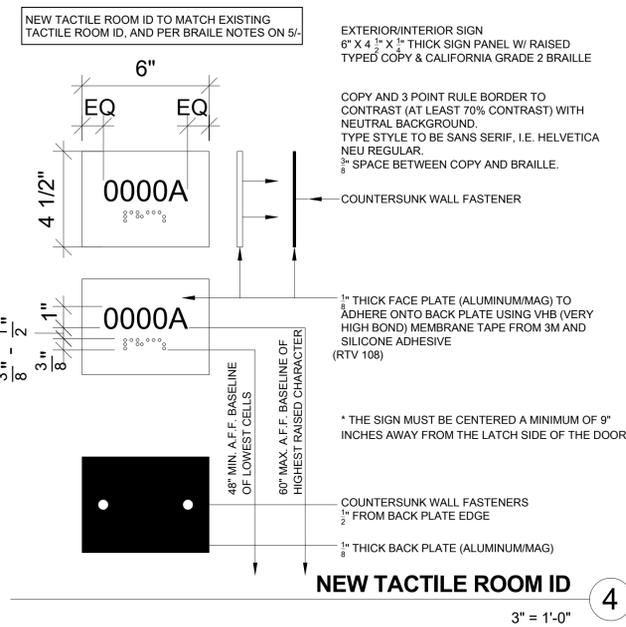
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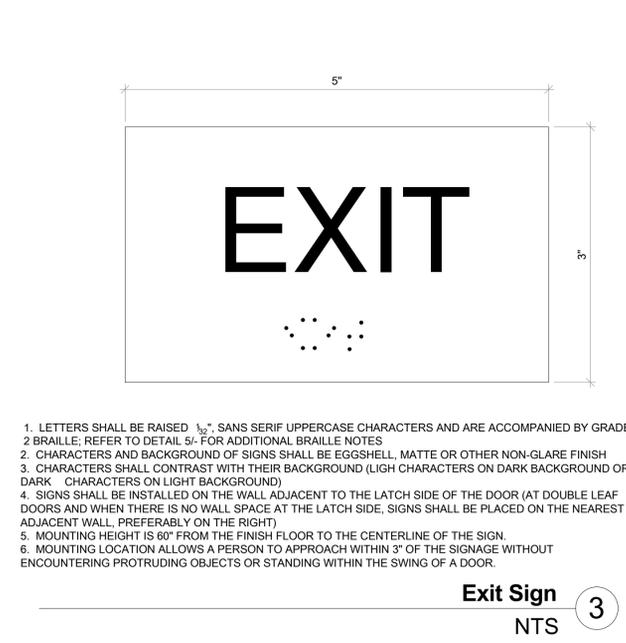
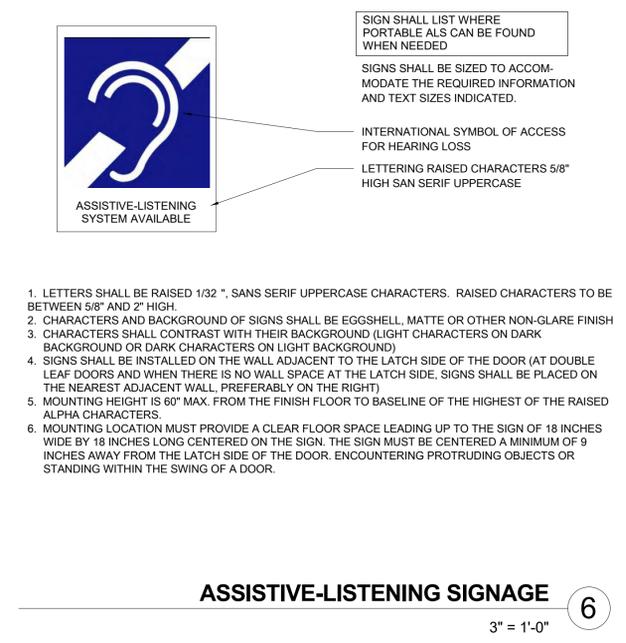
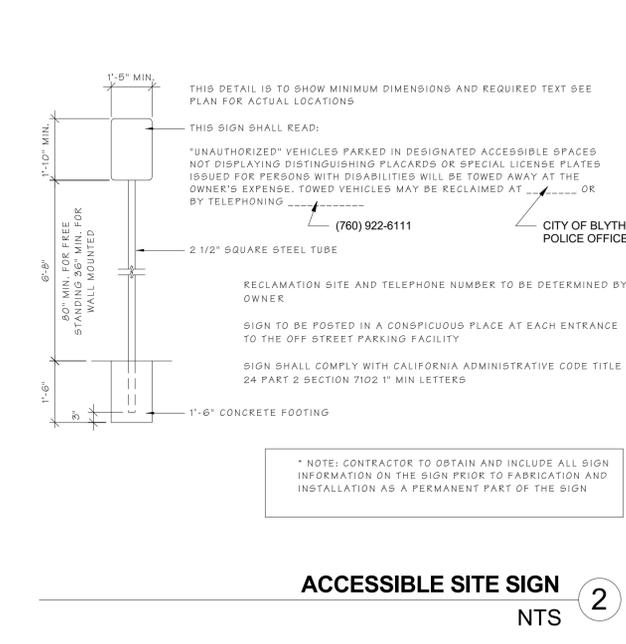
SHEET NUMBER

A-801



1. BRAILLE DOTS ARE 1/10" ON CENTER IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL.
 2. BRAILLE DOTS ARE RAISED A MIN. OF 1/40" ABOVE BACKGROUND.
 3. MOUNTING HEIGHT IS A MINIMUM OF 48 INCHES TO THE BASELINE OF THE BRAILLE CELLS.

BRAILLE NOTES 5
3" = 1'-0"



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DETAILS

SHEET NUMBER

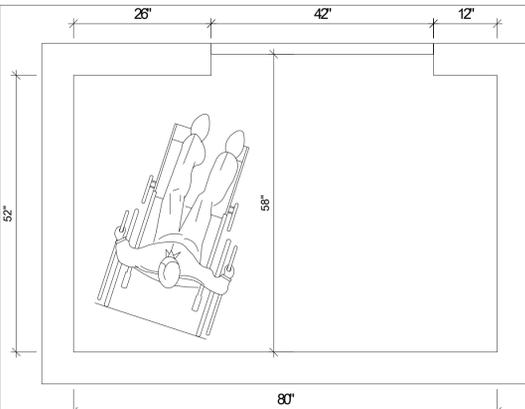
A-802

PASSENGER ELEVATOR NOTES: CHAPTER 11B-206.6 and 11B-407; 2016 CALIFORNIA BUILDING CODE

- SIZE AND SHAPE** - CALL BUTTONS SHALL HAVE SQUARE SHOULDERS, BE 3/4 INCH MINIMUM IN THE SMALLEST DIMENSION AND SHALL BE RAISED 1/8 INCH PLUS OR MINUS 1/32 INCH ABOVE THE SURROUNDING SURFACE. THE BUTTONS SHALL BE ACTIVATED BY A MECHANICAL MOTION THAT IS DETECTABLE. (11B-407.2.1.2)
- LOCATION** - THE CALL BUTTON THAT DESIGNATES THE UP DIRECTION SHALL BE LOCATED ABOVE THE CALL BUTTON THAT DESIGNATES THE DOWN DIRECTION.
- SIGNALS** - CALL BUTTONS SHALL HAVE VISIBLE SIGNALS THAT WILL ACTIVATE WHEN EACH CALL IS REGISTERED AND WILL EXTINGUISH WHEN EACH CALL IS ANSWERED. CALL BUTTONS SHALL BE INTERNALLY ILLUMINATED WITH A WHITE LIGHT OVER THE ENTIRE SURFACE OF THE BUTTON.
- KEYPADS** - KEYPADS, WHERE PROVIDED, SHALL BE IN A STANDARD TELEPHONE KEYPAD ARRANGEMENT AND SHALL COMPLY WITH 11B-407.4.7.2
- HALL SIGNALS - VISIBLE AND AUDIBLE SIGNALS** - VISIBLE AND AUDIBLE SIGNALS - A VISIBLE AND AUDIBLE SIGNAL SHALL BE PROVIDED AT EACH HOISTWAY ENTRANCE TO INDICATE WHICH CAR IS ANSWERING A CALL AND THE CAR'S DIRECTION OF TRAVEL. WHERE IN-CAR SIGNALS ARE PROVIDED, THEY SHALL BE VISIBLE FROM THE FLOOR AREA ADJACENT TO THE HALL CALL BUTTONS.
 - VISIBLE SIGNALS** - VISIBLE SIGNAL FIXTURES SHALL BE CENTERED AT 72 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND. THE VISIBLE SIGNAL ELEMENTS SHALL BE A MINIMUM 2 1/2 INCHES HIGH BY 2 1/2 INCHES WIDE. SIGNALS SHALL BE VISIBLE FROM THE FLOOR AREA ADJACENT TO THE HALL CALL BUTTON.
 - AUDIBLE SIGNALS** - AUDIBLE SIGNALS SHALL SOUND ONCE FOR THE UP DIRECTION AND TWICE FOR THE DOWN DIRECTION, OR SHALL HAVE VERBAL ANNUNCIATORS THAT INDICATE THE DIRECTION OF ELEVATOR CAR TRAVEL. AUDIBLE SIGNALS SHALL HAVE A FREQUENCY OF 1500 HZ MAXIMUM. VERBAL ANNUNCIATORS SHALL HAVE A FREQUENCY OF 300 HZ MINIMUM AND 3000 HZ MAXIMUM. THE AUDIBLE SIGNAL AND VERBAL ANNUNCIATOR SHALL BE 10 DB MINIMUM ABOVE AMBIENT, BUT SHALL NOT EXCEED 80 DB, MEASURED AT THE HALL CALL BUTTONS. C) HOISTWAY SIGNS - SIGNS AT ELEVATOR HOISTWAYS SHALL COMPLY WITH 11B-407.2.3.
- FLOOR DESIGNATION** - FLOOR DESIGNATIONS COMPLYING WITH 11B-703.2 AND 11B-703.4.1 SHALL BE PROVIDED ON BOTH JAMBS OF ELEVATOR HOISTWAY ENTRANCES. FLOOR DESIGNATIONS SHALL BE PROVIDED IN BOTH RAISED CHARACTERS AND BRAILLE. RAISED CHARACTERS SHALL BE 2 INCHES HIGH. A RAISED STAR, PLACED TO THE LEFT OF THE FLOOR DESIGNATION, SHALL BE PROVIDED ON BOTH JAMBS AT THE MAIN ENTRY LEVEL. THE OUTSIDE DIAMETER OF THE STAR SHALL BE 2 INCHES AND ALL POINTS SHALL BE OF EQUAL LENGTH. RAISED CHARACTERS, INCLUDING THE STAR, SHALL BE WHITE ON A BLACK BACKGROUND. BRAILLE COMPLYING WITH 11B-703.3 SHALL BE PLACED BELOW THE CORRESPONDING RAISED CHARACTERS AND THE STAR. THE BRAILLE TRANSLATION FOR THE STAR SHALL BE "MAIN". APPLIED PLATES ARE ACCEPTABLE IF THEY ARE PERMANENTLY FIXED TO THE JAMB. D) TWO-WAY COMMUNICATION - 1009.8
- ELEVATOR DOOR REQUIREMENTS** - A) TYPE - ELEVATOR DOORS SHALL BE THE HORIZONTAL SLIDING TYPE. CAR GATES SHALL BE PROHIBITED. B) OPERATION - ELEVATOR HOISTWAY AND CAR DOORS SHALL OPEN AND CLOSE AUTOMATICALLY. C) REOPENING DEVICE - ELEVATOR DOORS SHALL BE PROVIDED WITH A REOPENING DEVICE COMPLYING WITH 11B-407.3.3 THAT SHALL STOP AND REOPEN A CAR DOOR AND HOISTWAY DOOR AUTOMATICALLY IF THE DOOR BECOMES OBSTRUCTED BY AN OBJECT OR PERSON. D) HEIGHT - THE DEVICE SHALL BE ACTIVATED BY SENSING AN OBSTRUCTION PASSING THROUGH THE OPENING AT 5 INCHES NOMINAL AND 29 INCHES NOMINAL ABOVE THE FINISH FLOOR. E) CONTACT - THE DEVICE SHALL NOT REQUIRE PHYSICAL CONTACT TO BE ACTIVATED, ALTHOUGH CONTACT IS PERMITTED TO OCCUR BEFORE THE DOOR REVERSES. F) DURATION - DOOR REOPENING DEVICES SHALL REMAIN EFFECTIVE FOR 20 SECONDS MINIMUM. G) DOOR AND SIGNAL TIMING - THE MINIMUM ACCEPTABLE TIME FROM NOTIFICATION THAT A CAR IS ANSWERING A CALL UNTIL THE DOORS OF THAT CAR START TO CLOSE SHALL BE CALCULATED FROM THE FOLLOWING EQUATION: $T = D / (1.5 \text{ FT/S})$ OR $T = D / (457 \text{ MM/S}) = 5 \text{ SECONDS MINIMUM}$ WHERE T EQUALS THE TOTAL TIME IN SECONDS AND D EQUALS THE DISTANCE (IN FEET OR MILLIMETERS) FROM THE POINT IN THE LOBBY OR CORRIDOR 60 INCHES DIRECTLY IN FRONT OF THE FARTHEST CALL BUTTON CONTROLLING THAT CAR TO THE CENTERLINE OF ITS HOISTWAY DOOR. H) DOOR DELAY - ELEVATOR DOORS SHALL REMAIN FULLY OPEN IN RESPONSE TO A CAR CALL FOR 5 SECONDS MINIMUM. I) WIDTH - THE WIDTH OF ELEVATOR DOORS SHALL COMPLY WITH TABLE 11B-407.4.1.
- ELEVATOR CAR REQUIREMENTS** - A) **CAR DIMENSIONS** - INSIDE DIMENSIONS OF ELEVATOR CARS AND CLEAR WIDTH OF ELEVATOR DOORS SHALL COMPLY WITH TABLE 407.4.1. WHERE ELEVATORS ARE PROVIDED IN BUILDINGS FOUR OR MORE STORIES ABOVE, OR FOUR OR MORE STORIES BELOW, GRADE PLANE, NOT FEWER THAN ONE ELEVATOR SHALL BE PROVIDED FOR FIRE DEPARTMENT EMERGENCY ACCESS TO ALL FLOORS (80" X 54" INSIDE CAR DIMENSIONS OR OTHERWISE ACCOMMODATE REQUIREMENT) PER 3002.4 AND 3002.4.3A. B) **FLOOR SURFACES** - FLOOR SURFACES IN ELEVATOR CARS SHALL COMPLY WITH 11B-302 AND 11B-303. C) **PLATFORM TO HOISTWAY CLEARANCE** - THE CLEARANCE BETWEEN THE CAR PLATFORM SILL AND THE EDGE OF ANY HOISTWAY LANDING SHALL BE 1 1/4 INCHES MAXIMUM IN COMPLIANCE WITH 11B-407.4.3. D) **LEVELING** - EACH CAR SHALL BE EQUIPPED WITH A SELF-LEVELING FEATURE THAT WILL AUTOMATICALLY BRING AND MAINTAIN THE CAR AT FLOOR LANDINGS WITHIN A TOLERANCE OF 1/2 INCH UNDER RATED LOADING TO ZERO LOADING CONDITIONS. E) **ILLUMINATION** - THE LEVEL OF ILLUMINATION AT THE CAR CONTROLS, PLATFORM, CAR THRESHOLD AND CAR LANDING SILL SHALL BE 5 FOOT CANDLES MINIMUM. F) **ELEVATOR CAR CONTROLS** - WHERE PROVIDED, THEY SHALL COMPLY WITH 11B-407.4.6 AND 11B-309.4.
 - LOCATION - CONTROLS SHALL BE LOCATED WITHIN ONE OF THE REACH RANGES SPECIFIED IN 11B-308.
 - BUTTONS - CAR CONTROL BUTTONS WITH FLOOR DESIGNATIONS SHALL COMPLY WITH THE FOLLOWING: O SIZE AND SHAPE - BUTTONS SHALL HAVE SQUARE SHOULDERS, BE 3/4 INCH MINIMUM IN THE SMALLEST DIMENSION AND BE RAISED 1/8 INCH PLUS OR MINUS 1/32 INCH ABOVE THE SURROUNDING SURFACE. O ARRANGEMENT - BUTTONS SHALL BE ARRANGED WITH NUMBERS IN ASCENDING ORDER. WHEN TWO OR MORE COLUMNS OF BUTTONS ARE PROVIDED THEY SHALL READ FROM LEFT TO RIGHT. O ILLUMINATION - CAR CONTROL BUTTONS SHALL BE ILLUMINATED. O OPERATION - CAR CONTROL BUTTONS SHALL BE ACTIVATED BY A MECHANICAL MOTION THAT IS DETECTABLE.
 - KEYPADS - CAR CONTROL KEYPADS SHALL BE IN A STANDARD TELEPHONE KEYPAD ARRANGEMENT AND SHALL COMPLY WITH 11B-407.4.7.2.
 - EMERGENCY CONTROLS - EMERGENCY CONTROLS SHALL COMPLY WITH 11B-407.4.6.4. O HEIGHT - EMERGENCY CONTROL BUTTONS SHALL HAVE THEIR CENTERLINES 35 INCHES MINIMUM ABOVE THE FINISH FLOOR. O LOCATION - EMERGENCY CONTROLS, INCLUDING THE EMERGENCY ALARM, SHALL BE GROUPED AT THE BOTTOM OF THE PANEL. G) **DESIGNATIONS AND INDICATORS OF CAR CONTROLS** - THEY SHALL COMPLY WITH 11B-407.4.7.
 - BUTTONS - CAR CONTROL BUTTONS SHALL COMPLY WITH 11B-407.4.7.1. O TYPE - CONTROL BUTTONS SHALL BE IDENTIFIED BY RAISED CHARACTERS OR SYMBOLS. WHITE ON A BLACK BACKGROUND, COMPLYING WITH 11B-703.2 AND BRAILLE COMPLYING WITH 11B-703.3. O LOCATION - RAISED CHARACTERS OR SYMBOLS AND BRAILLE DESIGNATIONS SHALL BE PLACED IMMEDIATELY TO THE LEFT OF THE CONTROL BUTTON TO WHICH THE DESIGNATIONS APPLY. O SYMBOLS - THE CONTROL BUTTON FOR THE EMERGENCY STOP, ALARM, DOOR OPEN, DOOR CLOSE, MAIN ENTRY FLOOR, AND PHONE, SHALL BE IDENTIFIED WITH RAISED SYMBOLS AND BRAILLE AS SHOWN IN TABLE 11B-407.4.7.1.3. O VISIBLE INDICATORS - BUTTONS WITH FLOOR DESIGNATIONS SHALL BE PROVIDED WITH VISIBLE INDICATORS TO SHOW THAT A CALL HAS BEEN REGISTERED. THE VISIBLE INDICATION SHALL EXTINGUISH WHEN THE CAR ARRIVES AT THE DESIGNATED FLOOR. O BUTTON SPACING - A MINIMUM CLEAR SPACE OF 3/8 INCH OR OTHER SUITABLE MEANS OF SEPARATION SHALL BE PROVIDED BETWEEN ROWS OF CONTROL BUTTONS.
 - KEYPADS - KEYPADS SHALL BE IDENTIFIED BY CHARACTERS COMPLYING WITH 11B-703.5 AND SHALL BE CENTERED ON THE CORRESPONDING KEYPAD BUTTON. THE NUMBER FIVE KEY SHALL HAVE A SINGLE RAISED DOT. THE DOT SHALL BE 0.118 INCH TO 0.120 INCH BASE DIAMETER AND IN OTHER ASPECTS COMPLY WITH TABLE 11B-703.3.1. H) **CAR POSITION INDICATORS** - AUDIBLE AND VISIBLE CAR POSITION INDICATORS SHALL BE PROVIDED IN ELEVATOR CARS.
 - VISIBLE INDICATORS - VISIBLE INDICATORS SHALL COMPLY WITH 11B-407.4.8.1. O SIZE - CHARACTERS SHALL BE 1/2 INCH HIGH MINIMUM. O LOCATION - INDICATORS SHALL BE LOCATED ABOVE THE CAR CONTROL PANEL OR ABOVE THE DOOR. O FLOOR ARRIVAL - AS THE CAR PASSES A FLOOR AND WHEN A CAR STOPS AT A FLOOR SERVED BY THE ELEVATOR, THE CORRESPONDING CHARACTER SHALL ILLUMINATE.
 - AUDIBLE INDICATORS - AUDIBLE INDICATORS SHALL COMPLY WITH 11B-407.4.8.2. O SIGNAL TYPE - THE SIGNAL SHALL BE AN AUTOMATIC VERBAL ANNUNCIATOR WHICH ANNOUNCES THE FLOOR AT WHICH THE CAR IS ABOUT TO STOP. O SIGNAL LEVEL - THE VERBAL ANNUNCIATOR SHALL BE 10 DB MINIMUM ABOVE AMBIENT, BUT SHALL NOT EXCEED 80 DB, MEASURED AT THE ANNUNCIATOR. O FREQUENCY - THE VERBAL ANNUNCIATOR SHALL HAVE A FREQUENCY OF 300 HZ MINIMUM TO 3000 HZ MAXIMUM. I) **EMERGENCY COMMUNICATION** - EMERGENCY TWO-WAY COMMUNICATION SYSTEMS SHALL COMPLY WITH 11B-308. RAISED SYMBOLS OR CHARACTERS, WHITE ON A BLACK BACKGROUND, AND BRAILLE SHALL BE PROVIDED ADJACENT TO THE DEVICE AND SHALL COMPLY WITH 11B-703.2 AND 11B-703.3. EMERGENCY TWO-WAY COMMUNICATION SYSTEMS BETWEEN THE ELEVATOR AND A POINT OUTSIDE THE HOISTWAY SHALL COMPLY WITH ASME A17.1. J) **SUPPORT RAIL** - SUPPORT RAILS SHALL BE PROVIDED ON AT LEAST ONE WALL OF THE CAR.
 - LOCATION - CLEARANCE BETWEEN SUPPORT RAILS AND ADJACENT SURFACES SHALL BE 1 1/2 INCHES MINIMUM. TOP OF SUPPORT RAILS SHALL BE 31 INCHES MINIMUM TO 33 INCHES MAXIMUM ABOVE THE FLOOR OF THE CAR. THE ENDS OF THE SUPPORT RAIL SHALL BE 6 INCHES MAXIMUM FROM ADJACENT WALLS.
 - SURFACES - SUPPORT RAILS SHALL BE SMOOTH AND ANY SURFACE ADJACENT TO THEM SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS.
 - STRUCTURAL STRENGTH - ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS IS APPLIED AT ANY POINT ON THE SUPPORT RAIL, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE.

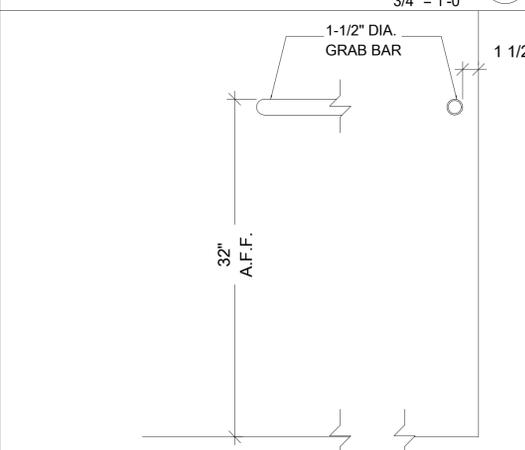
PASSANGER ELEVATOR NOTES

1" = 1'-0"



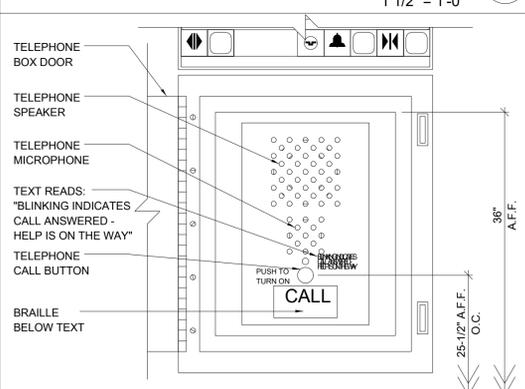
ELEVATOR INTERIOR CART DIMENSIONS

3/4" = 1'-0"



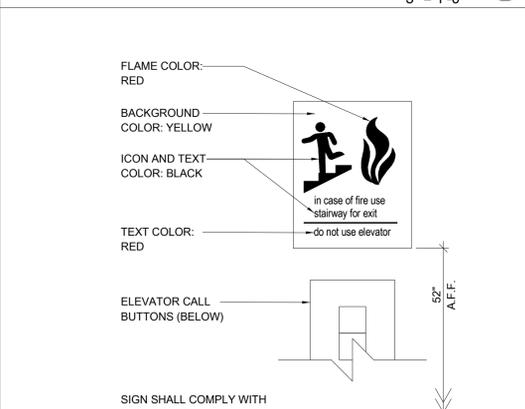
ELEVATOR GRAB BAR

1 1/2" = 1'-0"



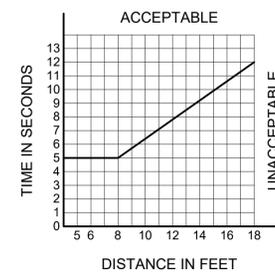
ELEVATOR CALL TELEPHONE BOX

3" = 1'-0"

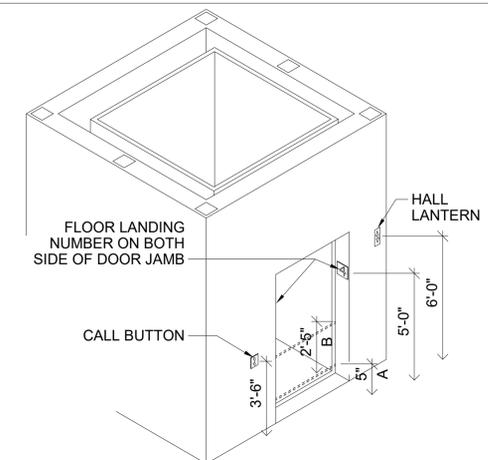


OTHER MEANS OF EGRESS SIGN

3" = 1'-0"



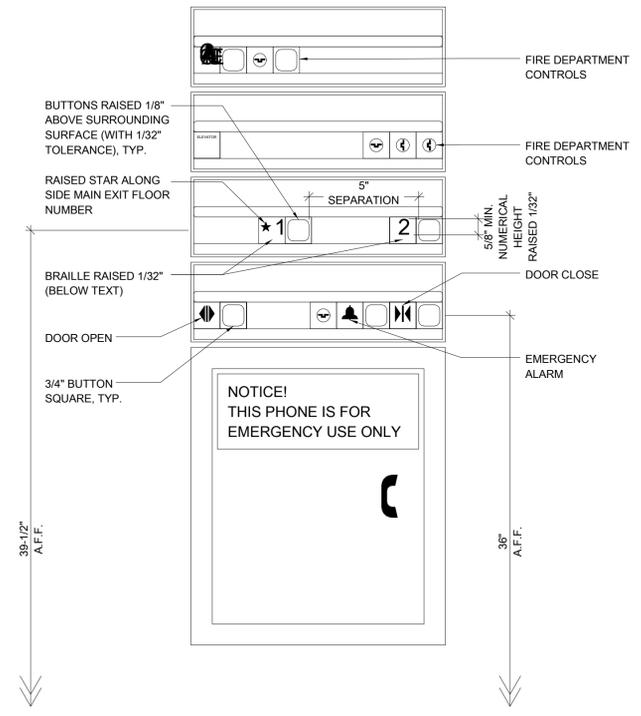
NOTE: THIS DIAGRAM ILLUSTRATES THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND IS INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.



NOTE: THE AUTOMATIC DOOR REOPENING DEVICE IS ACTIVATED IF AN OBJECT PASSES THROUGH EITHER LINE A OR LINE B. LINE A AND LINE B REPRESENT THE VERTICAL LOCATIONS OF THE DOOR REOPENING DEVICE NOT REQUIRING CONTACT. FIG. 20 - HOISTWAY AND ELEVATOR ENTRANCES

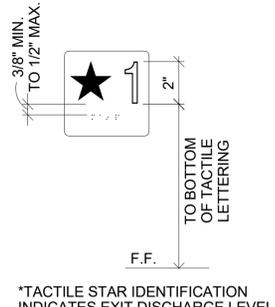
ELEVATOR DETAILS

1/4" = 1'-0"



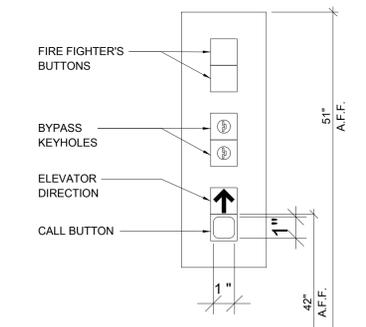
ELEVATOR INTERIOR CONTROL PANEL

3" = 1'-0"



ELEVATOR FLOOR LANDING NUMBER

3" = 1'-0"



ELEVATOR CALL BUTTONS

4" = 1'-0"

CLIENT

PALO VERDE COLLEGE
WHERE KNOWLEDGE TAKES ROOT AND OPPORTUNITY GROWS

Palo Verde Community College District
1 College Drive
Blythe, CA 92225

PROJECT NAME

Project 2
College Services Building
1 College Drive
Blythe, CA 92225

CONTRACTOR

DESIGNER

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CONSULTANTS

REGISTRATION STAMP

ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.: 17009

DRAWN BY: Author

CHECKED BY: Checker

SCALE: As indicated

DESIGN ITERATION 10/06/17

DSA Submittal 10/06/2017

DSA Submittal FILE NUMBER: 33-C4 2/7/2018

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116526 INCR. 0
AC_BL_FLS_DSH_SS_DW
DATE 02/09/2018

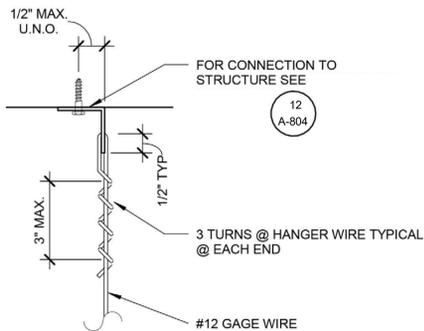
DATE 2/7/2018

SHEET TITLE

DETAILS

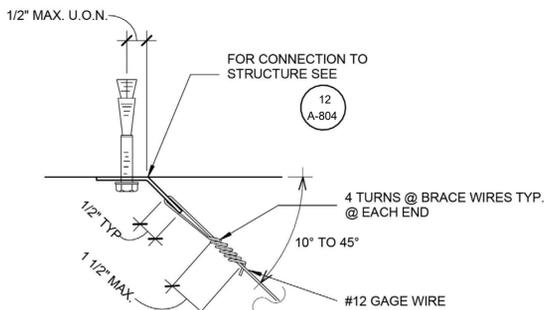
SHEET NUMBER

A-803



HANGER WIRE

12
A-804

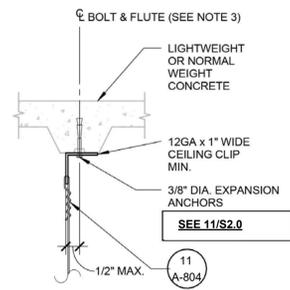


BRACING WIRE

IR 25-2.13 4.10

3" = 1'-0"

11



OPTION 1

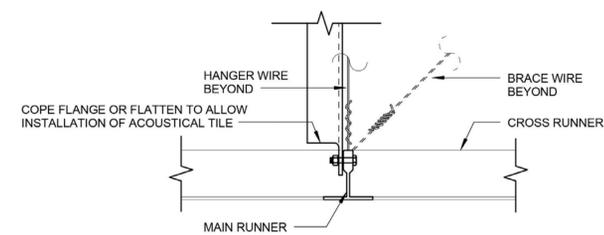
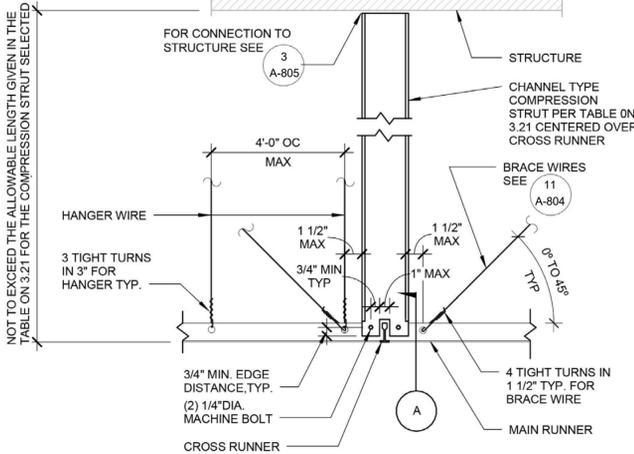
NOTES:

- REFER TO 4.10 FOR ADDITIONAL DETAILS.
- POST INSTALLED ANCHORS TO BE PLACED NO MORE THAN 1" OFFSET FROM CENTERLINE OF DECK LOW FLUTE
- TEST POST INSTALLED ANCHORS IN ACCORDANCE WITH CEILING NOTE 5.01.

IR 25-2.13 4.21

3" = 1'-0"

12



SECTION A
3" = 1'-0"

IR 25-2.13 3.10

3" = 1'-0"

9

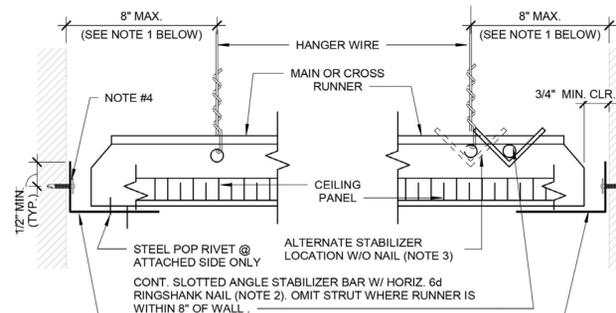
CHANNEL COMPRESSION STRUT	MAXIMUM LENGTH
250S125-33	5'-0"
250S137-33	6'-10"
362S137-33	8'-0"
250137-43	8'-10"
400S137-43	10'-10"

IR 25-2.13 2.80

3" = 1'-0"

7

- 1. CEILING SYSTEM GENERAL NOTES:**
- 1.01 CEILING SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635-07 AND SECTION 5.1 OF ASTM E530-10A.
 - 1.02 THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635-08.
 - 1.03 CEILING SYSTEMS (THE FOLLOWING CEILING SYSTEMS) IS/ARE PART OF THE SCOPE OF THIS PROJECT:
[FOR EACH SYSTEM USED, THE RDP SHALL INDICATE IN THE CONSTRUCTION DOCUMENTS, THE INFORMATION THAT FOLLOWS]
MANUFACTURER'S NAME: ARMSTRONG
PRODUCT EVALUATION REPORT TYPE AND NUMBER: ICC-ESR-1308
MANUFACTURER'S MODEL NUMBER - MAIN RUNNER: SILLHOUETTE DC760112
MANUFACTURER'S CATALOG NUMBER - CROSS RUNNER: SILLHOUETTE XL7600
1.04 SEISMIC WALL CLIP: [ROP TO SPECIFY IF USED]
MANUFACTURER'S MODEL:
1.05 CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS OR DEVICES.
 - 1.06 FOR CEILING INSTALLATIONS UTILIZING ACOUSTICAL TILE PANELS OF MINERAL OR GLASS FIBER, IT IS NOT MANDATORY TO PROVIDE 1/2" CLEARANCE BETWEEN THE ACOUSTICAL TILE PANELS AND THE WALL ON THE SIDES OF THE CEILING WHICH ARE FREE TO SLIP. FOR ALL OTHER CEILING PANEL TYPES, PROVIDE 1/2" CLEARANCE BETWEEN THE CEILING PANEL AND THE WALL ON THE SIDES OF THE CEILING FREE TO SLIP.
- 2. MATERIALS:**
- 2.01 CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641-09A. WIRE SHALL BE #12 GAGE (0.106" DIAMETER) WITH SOFT TEMPER AND MINIMUM TENSILE STRENGTH = 70 KSI.
 - 2.02 GALVANIZED SHEET STEEL (INCLUDING THAT USED FOR METAL STUD AND TRACK COMPRESSION STRUTS/POST) SHALL CONFORM TO ASTM A653-11, OR OTHER EQUIVALENT SHEET STEEL LISTED IN SECTION A2.1 OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS 2007, INCLUDING SUPPLEMENT 2 DATED 2010 (AISI S100-07/S2-10).
 - 2.03 MATERIAL 43 MIL (16 GAGE) AND LIGHTER SHALL HAVE MINIMUM YIELD STRENGTH OF 33 KSI. MATERIAL 54 MIL (16 GAGE) AND HEAVIER SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI.
 - 2.03 ELECTRICAL METALLIC TUBE (EMT) SHALL BE ANSI C80.3UL 797 CARBON STEEL WITH G90 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRENGTH (FY) OF 30 KSI AND MINIMUM ULTIMATE STRENGTH (FU) OF 48 KSI.
- 3. ATTACHMENT OF HANGER AND BRACING WIRES:**
- 3.01 SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.
 - 3.02 HANGER AND BRACING WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO: PIPING, DUCTWORK, CONDUIT AND EQUIPMENT.
 - 3.03 HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES.
 - 3.04 SLACK SAFETY WIRES SHALL BE CONSIDERED HANGER WIRES FOR INSTALLATION AND TESTING REQUIREMENTS.
 - 3.05 HANGER AND BRACING WIRE ANCHORAGE TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHORAGE ALIGNS CLOSELY WITH THE DIRECTION OF THE WIRE. (E.G. BRACING WIRE CEILING CLIPS MUST BE BENT AS SHOWN IN THE DETAILS AND ROTATED AS REQUIRED TO ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE. SCREW EYES IN WOOD MUST BE INSTALLED SO THEY ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, ETC.)



ATTACHED JOINT

NOTES:

- PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
- NAILS AT ENDS OF HORIZONTAL STABILIZERS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTER LINE OF SPAN OF STRUT.
- STABILIZER BAR MAY BE SLOTTED APPROVED ANGLES OR CHANNELS WITH "DIAMOND POINTS" OF SPRING STEEL WHICH SNAP TIGHT TO PREVENT MOVEMENT OF STRUT.
- (1) #10 SMS TO 20 GA. MIN. WALL STUD @ 24" O.C.

APPROVED STABILIZER
(SEE NOTE 3)

IR 25-2.13 2.60

3" = 1'-0"

6

- 4. FASTENERS AND WELDING:**
- 4.01 SHEET METAL SCREWS SHALL COMPLY WITH ASTM C1513-10, ASME B18.6.4-89 (R2005). PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.
 - 4.02 EXPANSION ANCHORS SHALL BE: [ROP TO INDICATE MANUFACTURER, PRODUCT, EVALUATION REPORT NUMBER AND LOAD FOR EACH SIZE SPECIFIED PER CBC 1913A.7.2]
 - 4.03 POWER-ACTUATED FASTENERS SHALL BE: [ROP TO INDICATE MANUFACTURER, PRODUCT, EVALUATION REPORT NUMBER]
 - 4.04 IF NOT OTHERWISE SPECIFIED IN THE EVALUATION REPORT, POWER-ACTUATED FASTENERS INSTALLED IN STEEL SHALL BE INSTALLED SO THE ENTIRE POINTED END OF THE FASTENER IS DRIVEN THROUGH THE STEEL MEMBER.
 - 4.05 POWER-ACTUATED FASTENERS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.
 - 4.06 CONCRETE REINFORCEMENT AND PRESTRESSING TENDONS SHALL BE LOCATED BY NON-DESTRUCTIVE MEANS PRIOR TO INSTALLING POST-INSTALLED ANCHOR.
 - 4.07 WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES.
- 5. TESTING:** ALL FIELD TESTING MUST BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR.
- 5.01 POST-INSTALLED ANCHORS IN CONCRETE USED TO SUPPORT HANGER WIRES SHALL BE TESTED AT A FREQUENCY OF 10 PERCENT. POWER ACTUATED FASTENERS IN CONCRETE SHALL BE FIELD TESTED FOR 200 LBS. IN TENSION. ALL OTHER POST-INSTALLED ANCHORS IN CONCRETE SHALL BE TESTED IN ACCORDANCE WITH CBC SECTION 1913A.7.
 - 5.02 POST-INSTALLED ANCHORS IN CONCRETE USED TO ATTACH BRACING WIRES SHALL BE TESTED AT A FREQUENCY OF 50 PERCENT IN ACCORDANCE WITH CBC SECTION 1913A.7.
- 6. LIGHT FIXTURES:**
- 6.01 ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LIGHT FIXTURE, PER ASTM E580, SECTION 6.3.1.
 - 6.02 SURFACE-MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #4 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER OR EXCEED 56 LB. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.

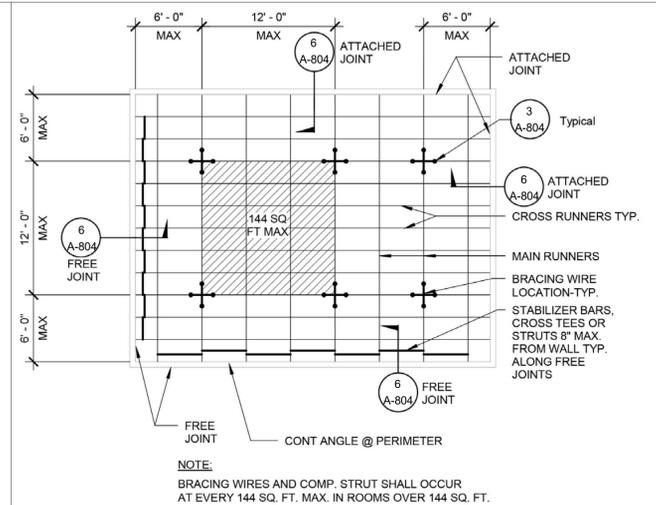
- 6.03 LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.
 - 6.04 LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.
 - 6.05 LIGHT FIXTURES WEIGHING GREATER THAN 10 LB. BUT LESS THAN OR EQUAL TO 56 LBS. MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE.
 - EXCEPTION: ALL LIGHT FIXTURES GREATER THAN TWO (2) BY FOUR FEET WEIGHING LESS THAN 56 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE AT EACH CORNER.
 - 6.06 ALL LIGHT FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE FIXTURE.
- 7. SERVICES WITHIN THE CEILING:**
- 7.01 ALL FLEXIBLE SPRINKLER HOSE FITTING MOUNTING BRACKETS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.
 - 7.02 CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 LB. SHALL HAVE ONE (1) #12 GAGE SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
 - 7.03 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 20 LB. BUT LESS THAN OR EQUAL TO 56 LB. SHALL HAVE TWO (2) #12 GAGE SLACK SAFETY WIRES (AT DIAGONAL CORNERS) CONNECTED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
 - 7.04 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 56 LB. SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS.
- 8. OTHER DEVICES WITHIN THE CEILING:**
- 8.01 ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC. SHALL BE ATTACHED TO THE CEILING GRID. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHING MORE THAN 20 LB. SHALL BE SUPPORTED INDEPENDENTLY FROM THE STRUCTURE ABOVE.

TAKEN FROM IR 25-2.13

ACOUSTIC CEILING NOTES

1" = 1'-0"

1

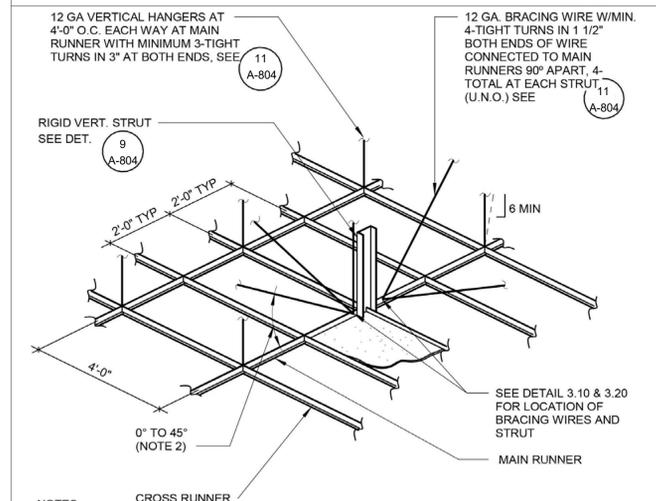


NOTE:
BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 144 SQ. FT. MAX. IN ROOMS OVER 144 SQ. FT.

IR 25-2.13 2.12

NTS

2



NOTES:

- STRUTS SHALL NOT REPLACE HANGER WIRES.
- THE MINIMUM ACCEPTABLE ANGLE IS DETERMINED SUCH THAT THE WIRES DO NOT INTERFERE WITH THE RUNNERS, LIGHT FIXTURES, ETC. AND REMAIN STRAIGHT AND UNOBSTRUCTED.

IR 25-2.13 2.35

3" = 1'-0"

3

CLIENT

PALO VERDE COLLEGE
WHERE KNOWLEDGE TAKES ROOT AND OPPORTUNITY GROWS

Palo Verde Community College District
1 College Drive
Blythe, CA 92225

PROJECT NAME

Project 2
College Services Building
1 College Drive
Blythe, CA 92225

CONTRACTOR

DESIGNER

SILLMAN WRIGHT ARCHITECTS
31045 Temecula Parkway
Suite 204
Temecula, CA 92592
T. 760.489.4432
www.sillmanwright.com

CONSULTANTS

REGISTRATION STAMP

SEISED ARCHITECT
C. 1862
STATE OF CALIFORNIA

ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.: 17009

DRAWN BY: Author

CHECKED BY: Checker

SCALE: As indicated

DESIGN ITERATION 10/06/17

DSA Submittal 10/06/2017

DSA Submittal 2/7/2018

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO. 04 - 116526 INCR. 0
AC, BL, FLS, DSH, SS, DW
DATE 02/09/2018

DATE 2/7/2018

SHEET TITLE

DETAILS

SHEET NUMBER

A-804

CLIENT



Palo Verde Community College District
1 College Drive
Blythe, CA 92225

PROJECT NAME

Project 2
College Services Building
1 College Drive
Blythe, CA 92225

CONTRACTOR

DESIGNER



CONSULTANTS

REGISTRATION STAMP



ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.: 17009

DRAWN BY: Author

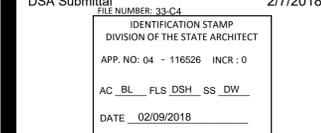
CHECKED BY: Checker

SCALE: 3" = 1'-0"

DESIGN ITERATION 10/06/17

DSA Submittal 10/06/2017

DSA Submittal 2/7/2018



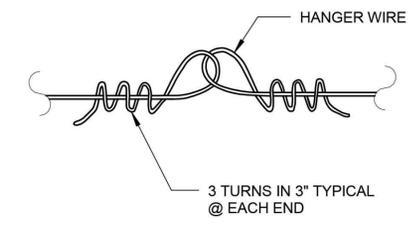
DATE 2/7/2018

SHEET TITLE

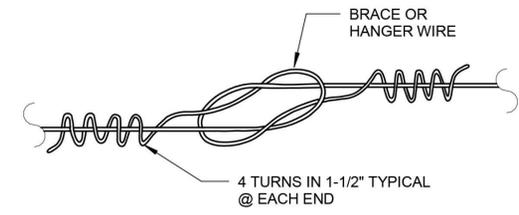
DETAILS

SHEET NUMBER

A-805



HANGER WIRE ONLY

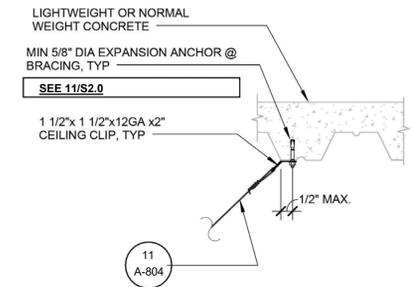


HANGER OR BRACE WIRE

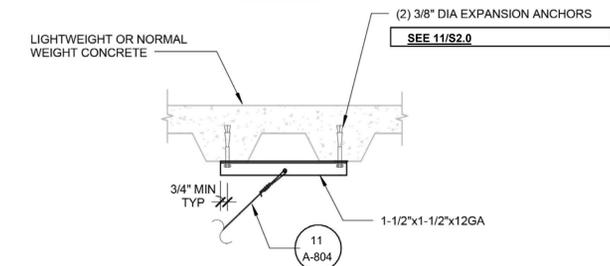
NOTES:

WIRE SPLICES ARE SHOWN LOOSELY TIED FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE DRAWN TIGHT TO COMPLETE INSTALLATION WHEN CONSTRUCTED.

IR 25-2.13 6.10 5
3" = 1'-0"



OPTION 1

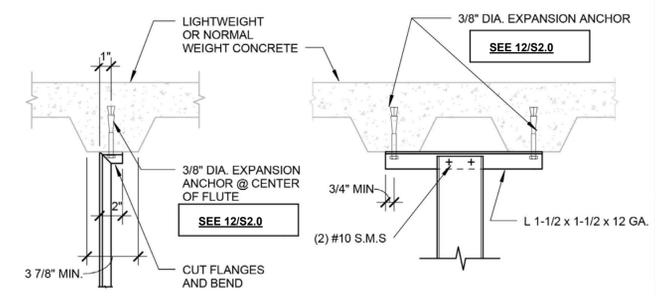


OPTION 2

NOTES:

- TEST POST INSTALLED ANCHORS IN ACCORDANCE WITH CEILING NOTE 5.02
- REFER TO 4.10 FOR ADDITIONAL DETAILS
- POST INSTALLED ANCHORS TO BE PLACED NO MORE THAN 1" OFFSET FROM CENTERLINE OF DECK LOW FLUTE.

IR 25-2.13 4.31 2
3" = 1'-0"



OPTION 1

OPTION 2

CHANNEL STRUT

IR 25-2.13 5.21 3
3" = 1'-0"



WYNN ENGINEERING, INC.
27315 Valley Center Road
Valley Center, CA 92082
Voice: 760.749.8722
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STRUCTURAL SPECIFICATIONS

PROJECT INFORMATION:
PALO VERDE COMMUNITY COLLEGE - PROJECT 2
1 COLLEGE DRIVE
BLYTHE, CA 92225



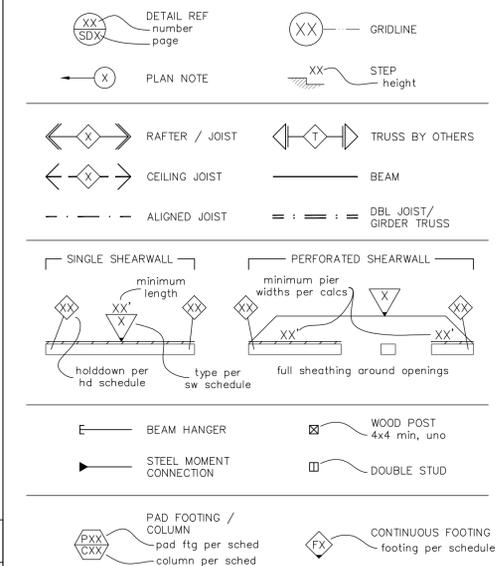
THESE DRAWINGS ARE NOT VALID FOR CONSTRUCTION UNLESS THE STAMP ABOVE IS SIGNED WITH A WET SIGNATURE AND THESE DRAWINGS BEAR THE APPROVAL STAMP OF THE BUILDING OFFICIAL.

REVISIONS	

DATE: 2/7/2018
SCALE: NTS
ENGINEER: JPC
DRAFTER: JPC
JOB No: 17-624
DWG No:

SO

SYMBOL LEGEND



A. GENERAL SPECIFICATIONS

1. ALL DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2016 CALIFORNIA BUILDING CODE, 2016 CALIFORNIA PLUMBING CODE, 2016 CALIFORNIA MECHANICAL CODE, AND THE 2016 CALIFORNIA ELECTRICAL CODE.
2. ALL DETAILS, SECTIONS, AND NOTES ON DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE NOTED.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER SO THAT THE PROPER REVISIONS CAN BE MADE PRIOR TO PROCEEDING WITH THE WORK.
4. ALL GENERAL CONTRACTORS, SUB-CONTRACTORS, ARCHITECTS, AND ENGINEERS CONDUCTING BUSINESS ARE REQUIRED TO MAINTAIN A CURRENT BUSINESS LICENSE.
5. A RE-INSPECTION FEE WILL BE CHARGED FOR AN INSPECTION WHICH IS CALLED WITHOUT PROVIDING ACCESS, PLANS, OR IF THE JOB IS NOT READY.
6. DIMENSIONS SHALL NOT BE SCALED FROM THE DRAWINGS.
7. ALL ASTM DESIGNATIONS SHALL BE AS AMENDED TO DATE UNLESS OTHERWISE NOTED.
8. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED.
9. CONTRACTOR TO PROVIDE ADEQUATE SHORING AND BRACING TO SUPPORT ALL LOADS DURING CONSTRUCTION.
10. A SURVEY SHALL BE PROVIDED BY A LICENSED SURVEYOR ON STRUCTURES WHICH DEFINE PROPERTY LINES, SETBACKS, DESIGNATED PARKLAND OR STREET RIGHT-OF-WAY.

A1 DESIGN BASIS

1. THESE STRUCTURAL DRAWINGS ARE BASED UPON THE 2016 CALIFORNIA BUILDING CODE AND FOLLOWING DESIGN PARAMETERS:
 - a. GRAVITY LOADS
CEILING LIVE LOAD 10.0psf
 - b. SEISMIC DESIGN PARAMETERS
IMPORTANCE FACTOR I 1.5
RISK CATEGORY IV
SITE CLASS D
SEISMIC DESIGN CATEGORY D
MAPPED ACCELERATIONS Ss 0.38
S1 0.20
Sds 0.38
DESIGN ACCELERATIONS Sd1 0.27

FILE NUMBER: 33-C4
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116526 INCR : 0
AC BL FLS DSH SS DW
DATE 02/09/2018

N. COLD FORMED STEEL

1. COLD FORMED STEEL FABRICATION AND ERECTION SHALL COMPLY WITH THE 2010 NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS (AISI S100-07/S2-10).
2. WELDING OF LIGHT GAGE MEMBERS SHALL COMPLY WITH AWS D1.3 "STRUCTURAL WELDING CODE - SHEET STEEL."
3. LOAD BEARING STUDS, TRACKS, CHANNELS, JOISTS, ETC SHALL CONFORM TO THE PROVISIONS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) IN ACCORDANCE WITH ICC ER-494.3. EACH STUD OR JOIST SHALL BE IDENTIFIED WITH ITS THICKNESS AND YIELD STRESS.
4. COLD FORMED MEMEBERS ARE IDENTIFIED AS FOLLOWS:
600S250-43 THICKNESS OF PART IN MILS
WIDTH OF PART IN MILS
TYPE OF PART PER SSMA
DEPTH OF PART IN MILS
5. ROOF AND FLOOR DECKING SHALL BE VERO MANUFACTURING COMPANY CONFORMING TO ICC ER-1735P.
6. STEEL GRADE AND FINISH OF COLD FORMED SECTIONS SHALL CONFORM TO ASTM A653SS OR ASTM A570 WITH GRADES AS FOLLOWS:
 - I. STUDS, TRACKS, JOISTS, HEADERS
a. THICKNESS UP TO 43mils(18ga) GRADE 33ksi
b. THICKNESS 54mils(16ga) AND ABOVE .. GRADE 50ksi
 - II. MISC CHANNELS GRADE 33ksi
 - III. DECKING GRADE 33ksi
7. SCREWS SHALL BE HILTI KWIK-PRO. SCREWS EXPOSED TO WEATHER SHALL BE ZINC PLATED AND PROVIDED WITH A SEALING WASHER.
8. ANY JOIST SPANS OVER 8'-0" SHALL HAVE A ROW OF 18 Ga FULL DEPTH BLOCKING AT MID-SPAN.
9. NO PUNCHOUTS ARE ALLOWED WITHIN 24" OF SUPPORTS FOR FLOOR JOISTS.

REQUIRED SPECIAL INSPECTION

The following items require Special Inspection in accordance with Sections 1704 & 1705 of the 2016 California Building Code: (only checked items are required)

Inspection Item	Notes
Structural Concrete (CBC Table 1705.3)	
<input type="checkbox"/> Foundations ⁽¹⁾	
<input type="checkbox"/> Grade Beams / Piles	
<input type="checkbox"/> Beams / Slabs	
<input type="checkbox"/> Walls / Columns	
<input type="checkbox"/> Welding of Reinforcement	
<input type="checkbox"/> Anchor Bolts	
<input type="checkbox"/> Shotcrete / Gunitite	
<input type="checkbox"/> Seismic Resisting System	
<input type="checkbox"/> Other:	
Structural Steel (AISC 360-10 Chapter N)	
<input type="checkbox"/> Field Welding ⁽²⁾	
<input type="checkbox"/> High Strength Bolting	
<input type="checkbox"/> Seismic Resisting System	See AISC 341-10 Chapter J
<input type="checkbox"/> Other:	
Structural Masonry (ACI 530-13 3.1)	
<input type="checkbox"/> Concrete Masonry (CMU)	
<input type="checkbox"/> Seismic Resisting System	
<input type="checkbox"/> Other:	
Structural Wood (CBC 1705.5)	
<input type="checkbox"/> High Load Diaphragms	
<input type="checkbox"/> Seismic Resisting System ⁽³⁾	Wood Shearwalls, Diphragms, Collectors
<input type="checkbox"/> Other:	
Miscellaneous Items	
<input checked="" type="checkbox"/> Wedge Anchors	Hilti Kwik Bolt TZ (ICC-ER 1917)
<input type="checkbox"/> Other:	

1. FOUNDATION SPECIAL INSPECTION IS NOT REQUIRED FOR BUILDINGS THREE STORIES OR LESS IN HEIGHT.
2. SPECIAL INSPECTION NEED NOT BE PROVIDED FOR WELDING PERFORMED IN THE SHOP OF AN APPROVED FABRICATOR.
3. SPECIAL INSPECTION IS NOT REQUIRED FOR SHEARWALLS WHERE NAIL SPACING IS 4" OC OR LARGER.



WYNN ENGINEERING, INC.
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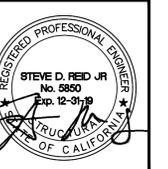
CEILING FRAMING PLAN

SHEET DESCRIPTION:

PALO VERDE COMMUNITY COLLEGE - PROJECT 2

1 COLLEGE DRIVE
 BLYTHE, CA 92225

PROJECT INFORMATION:



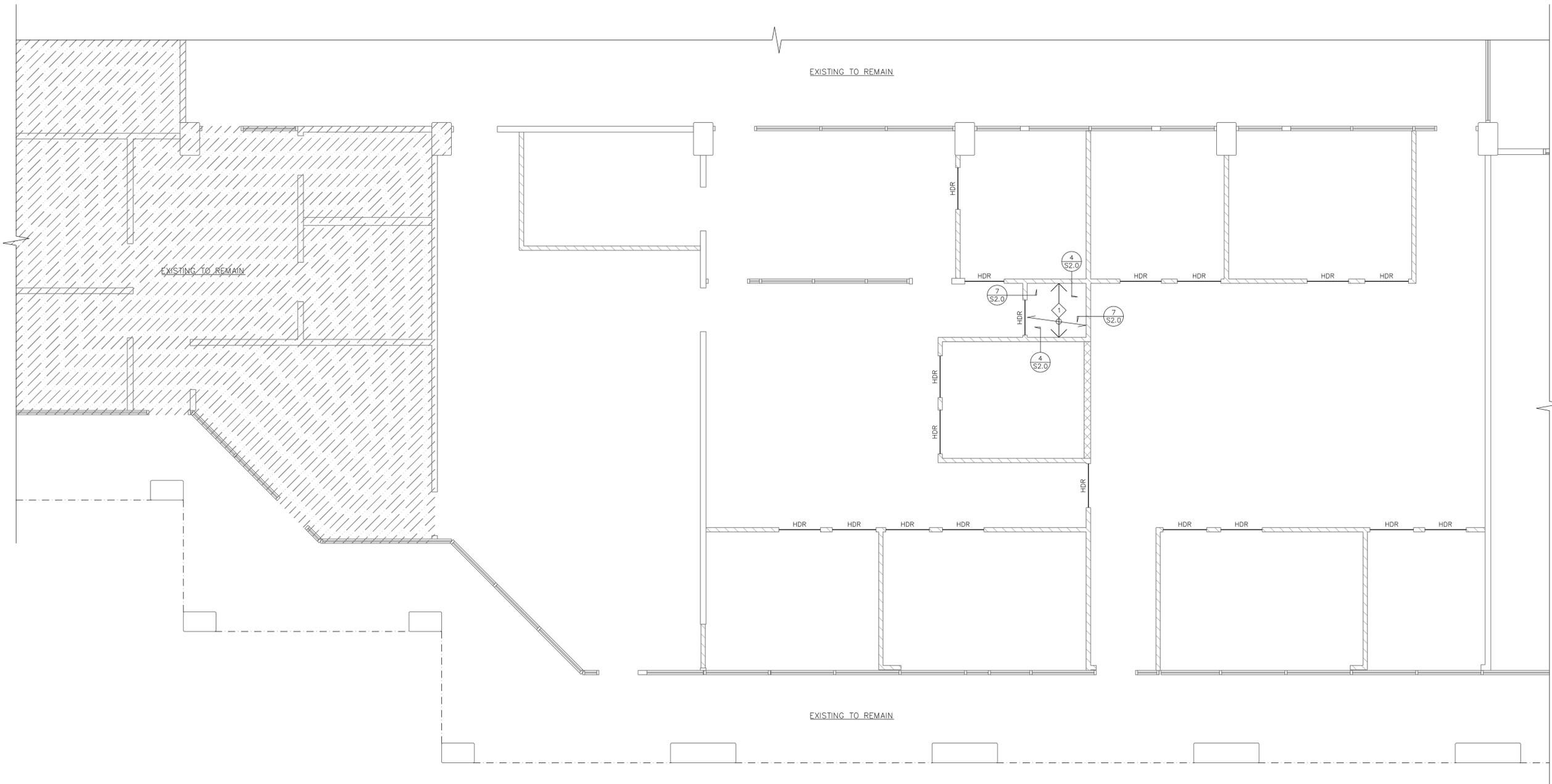
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REVISIONS

DATE: 2/7/2018
 SCALE: 1/4" = 1'-0"
 ENGINEER: JPC
 DRAFTER: JPC
 JOB No: 17-624
 DWG No:

S1.0

OF 3 TOTAL SHEETS



WALL LEGEND	
(E) WALLS TO REMAIN	
(N) 362S125-43 @ 16" OC	
(N) 600S125-43 @ 16" OC	

◇ JOIST / RAFTER SCHEDULE	
MARK	SECTION
1	600S162-43 @ 24" OC

CEILING HEADER SCHEDULE	
JOISTS	SPAN
(2)-550S162-33	3'-0" - 6'-0"
(2)-550S162-43	6'-0" - 8'-0"

FOR TYPICAL WALL CONSTRUCTION SEE (2) S2.0
 FOR TYPICAL TOP TRACK SPLICE SEE (3) S2.0
 TYPICAL TRACK:
 T125-MATCH GAGE AND DEPTH TO STUDS

FILE NUMBER: 33-C4
 IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 APP. NO: 04 - 116526 INCR: 0
 AC BL FLS DSH SS DW
 DATE 02/09/2018

CEILING FRAMING PLAN
 1/4" = 1'-0"

Date Plotted: 1/19/2018 2:34 PM
 Plotted By: JAMES CASEY
 Path: \\S07A17-624-30-ARCHITECTS - PROJECT 2 COLLEGE SERVICES BUILDING\DWG\CURRENT\S1.0 CEILING FRAMING PLANDING

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STRUCTURAL DETAILS

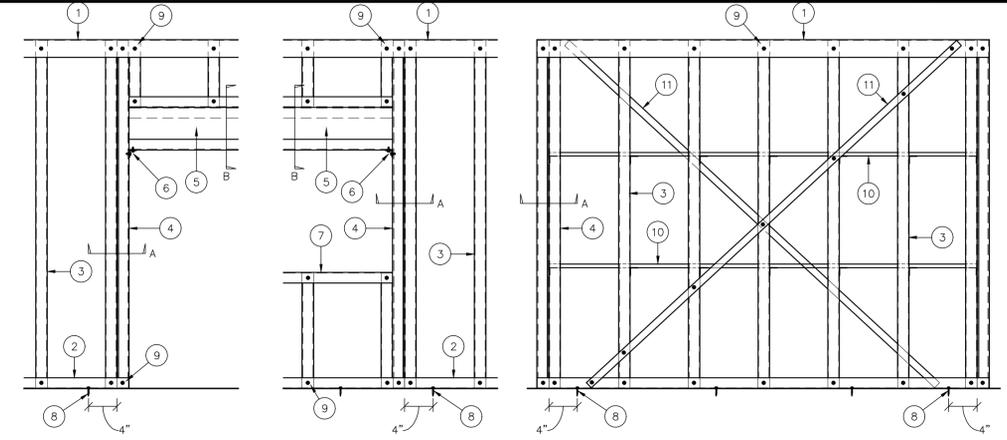
SHEET DESCRIPTION:
PALO VERDE COMMUNITY COLLEGE - PROJECT 2
1 COLLEGE DRIVE
BLYTHE, CA 92225

PROJECT INFORMATION:
REGISTERED PROFESSIONAL ENGINEER
STEVE D. RED JR.
No. 6850
Exp. 12-31-19
ARCHITECT
OF CALIFORNIA

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REVISIONS	

DATE: 2/7/2018
SCALE: NTS
ENGINEER: JPC
DRAFTER: JPC
JOB No: 17-624
DWG No:



DOOR FRAMING

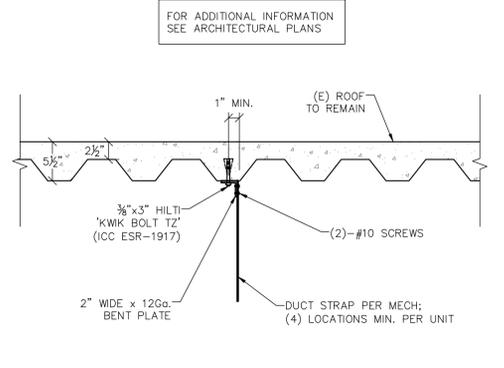
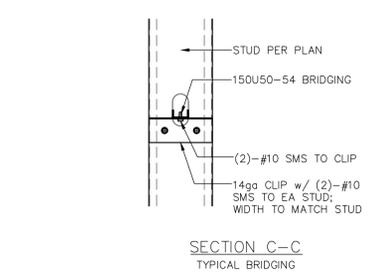
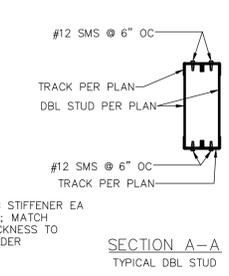
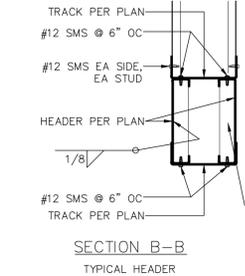
- NOTES:
1. TOP TRACK PER PLAN
2. BOTTOM TRACK PER PLAN
3. STUDS PER PLAN
4. BUILT UP JAMB U.N.O. ON PLANS, SEE SECTION A-A
5. BUILT UP HEADER PER PLAN, SEE SECTION B-B

WINDOW FRAMING

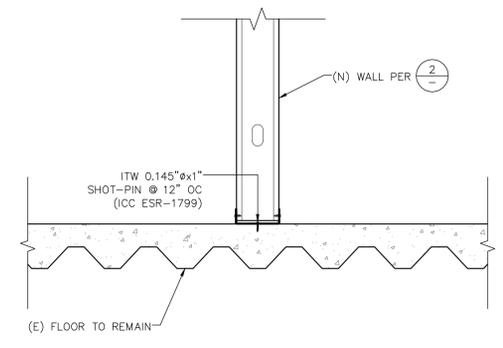
6. 14gx10" FRAMING CLIP w/ (14)-#12 SMS TO HEADER AND JAMB
7. SILL TRACK PER PLAN
8. SHOT-PIN PER PLAN WHERE OCCURS
9. #12 SMS EA SIDE

WALL FRAMING

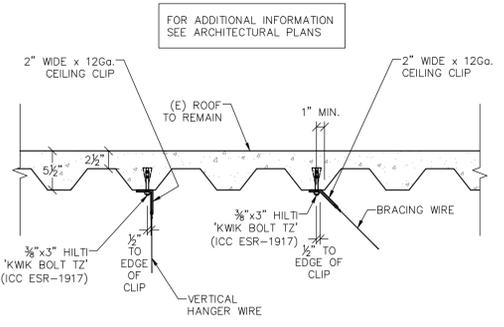
10. 150U50-54 CHANNEL BRIDGING PER SECTION C-C AT 4'-0" MAX OC
11. 2"x18ga STRAP w/ #10 SMS TO TRACK & STUDS; INSTALL EACH SIDE OF WALL IN OPPOSITE DIRECTIONS. INSTALL 1 SET OF BRACES FOR EVERY 20' OF WALL, WITH A MINIMUM OF 1 SET PER WALL.



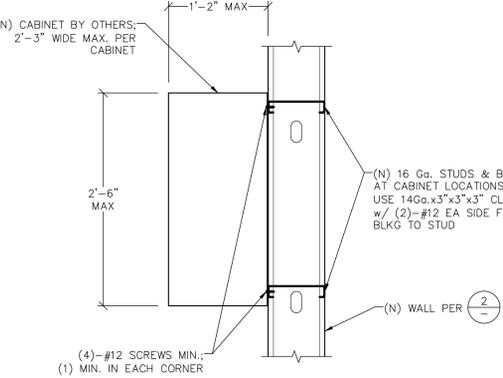
VAV BOX ANCHORAGE (13)



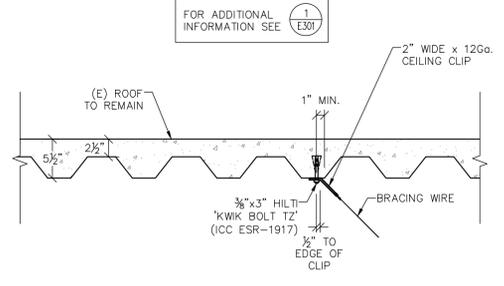
INTERIOR NON-BEARING WALLS TO FLOOR (9)



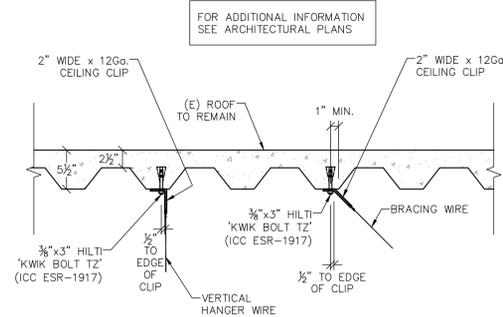
DUCT ANCHORAGE (14)



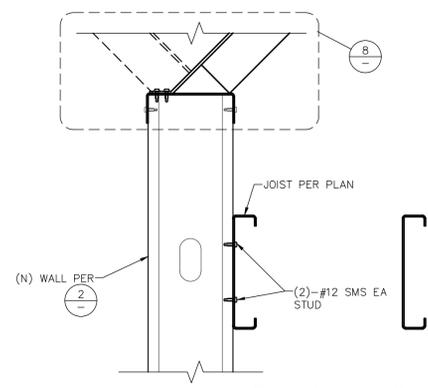
COFFEE ROOM CABINET ANCHORAGE (10)



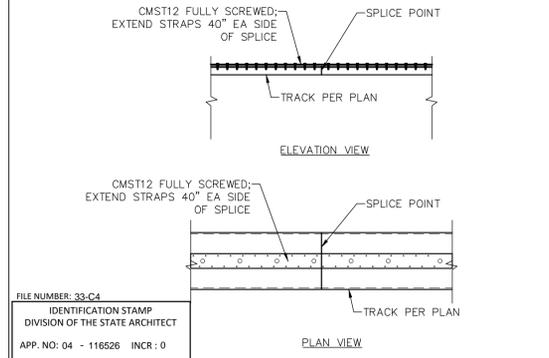
LIGHT FIXTURE SAFETY WIRE ANCHORAGE (15)



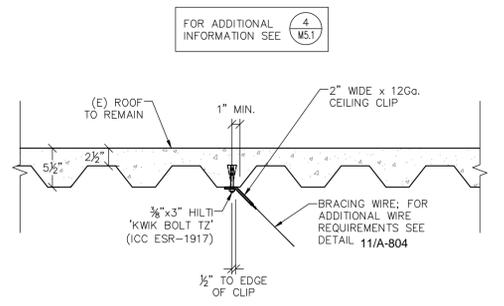
SUPPORT WIRE ANCHORAGE (11)



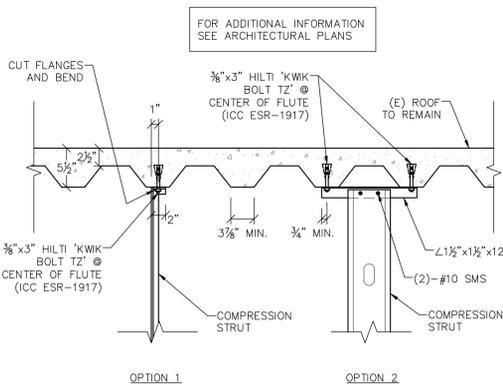
CEILING JOIST TO WALL (7)



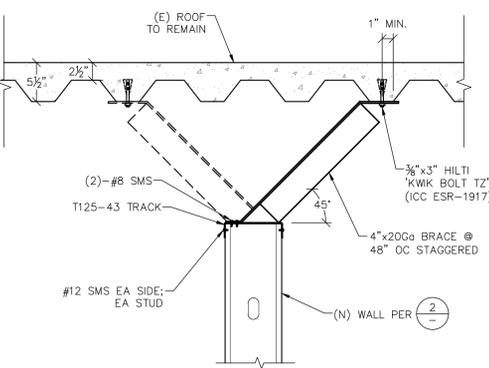
TYPICAL TOP TRACK SPLICE (3)



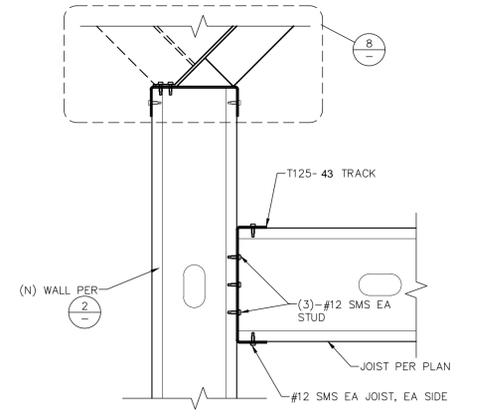
VAV SEISMIC WIRE ANCHORAGE (16)



COMPRESSION STRUT ANCHORAGE (12)



INTERIOR NON-BEARING WALLS TO ROOF (8)



CEILING JOIST TO WALL (4)

Date Plotted: 1/19/2018 2:33 PM
User: JPC
Path: \\P:\Projects\2017-2018\30_ARCHITECTS - PROJECT 2 COLLEGE SERVICES BUILDING\DWG\CURRENT\S2.0_STRUCTURAL DETAILS.DWG

NTS (17)

NTS (18)

NTS (19)

NTS (20)

ANCHORAGE & BRACING NOTE

MCP 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.

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

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED TO BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE 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 RESIST THE FORCES 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 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. COMPLY WITH DETAILS AND PROJECT SPECIFIC NOTES AS SHOWN ON THE APPROVED DRAWINGS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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#) # 0043-13

MP MD PP OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009) INCLUDING ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA 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 _____ AND CONNECTION LEVEL _____ FOR THE PROJECT AND CONDITIONS.

MECHANICAL PLAN CHECK NOTES

- SEE TITLE 24 CALCULATION FORMS ENV-3-C FOR INSULATION AND MATERIAL ASSEMBLY OF WALL, ROOF, AND FLOOR. SEE ARCHITECTURAL DRAWINGS FOR MATERIAL ASSEMBLY SECTIONS ON PLANS.
- ALL INSULATION MATERIAL SHALL COMPLY WITH THE CALIFORNIA QUALITY STANDARD PER SECTION 118 OF THE CALIFORNIA ENERGY EFFICIENCY STANDARDS. INSULATION INSTALLED INDOORS SHALL HAVE A FLAME SPREAD-RATING OR 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS.
- ALL HVAC PIPING AND DUCTWORK SYSTEMS SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF THE 2016 CALIFORNIA ENERGY CODE AND THE 2016 CALIFORNIA MECHANICAL CODE (CMC) APPENDIX A.
- ALL HVAC EQUIPMENT AND APPLIANCES SHALL MEET THE REQUIREMENTS PER SECTION 110 OF THE CALIFORNIA ENERGY EFFICIENCY STANDARDS.
- HVAC SYSTEMS AUTOMATIC CONTROLS SHALL COMPLY WITH THE CONTROL REQUIREMENTS PER SECTIONS 120 OF THE CALIFORNIA ENERGY EFFICIENCY STANDARDS.
- MATERIALS EXPOSED WITHIN DUCTS OR PLENUMS, FLEXIBLE DUCTS AND DUCT INSULATION SHALL COMPLY WITH 2016 CMC 602 AND SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 50.
- ALL DOORS AND WINDOWS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTION 110.6 OF THE CALIFORNIA ENERGY EFFICIENCY STANDARDS.
- AT THE TIME OF PERMIT ISSUANCE, THE PERMITEE WILL PROVIDE AN APPROVED COPY OF THE CERTIFICATE OF COMPLIANCE (MECH-1C) TO THE JURISDICTION FOR FILING.
- PROVIDE SMOKE DETECTORS ON AIR MOVING SYSTEMS EXCEEDING 2,000 CFM AT SUPPLY AIR DUCTS. (CMC 608)
- FIRE AND/OR SMOKE DAMPER ASSEMBLIES, INCLUDING SLEEVES, AND INSTALLATION PROCEDURES SHALL BE APPROVED BY THE BUILDING INSPECTOR PRIOR TO INSTALLATION.
- ATTICS OR SIMILAR CONCEALED SPACE MUST BE PARTITIONED BY DRAFT STOPS INTO AREAS NOT EXCEEDING 3,000 SQ. FT. IN AREA AND 60 FT. IN LENGTH (EVERY 9,000 SQ. FT. AND 100 FT. IN SPRINKLED BUILDINGS).
- ALL WATER HEATERS/ BOILERS SHALL BE STRAPPED OR ANCHORED PER SEC. 507 OF THE CPC TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION.
- AIR FILTERS SHALL BE A STATE FIRE MARSHALL APPROVED AND LISTED TYPE. PRE-FORMED FILTERS HAVING COMBUSTIBLE FRAMING SHALL BE TESTED AS A COMPLETE ASSEMBLY. AIR FILTERS IN ALL OCCUPANCIES SHALL BE CLASS 1 OR 2 (AS SHOWN IN THE STATE FIRE MARSHALL LISTING). AIR FILTERS SHALL BE ACCESSIBLE FOR CLEANING OR REPLACEMENT. (314.2, 408 CMC)
- CERTIFICATE OF COMPLIANCE (MECH-1C) AND ALL RELATED ACCEPTANCE DOCUMENTS SHALL BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THESE FORMS ARE REVIEWED AND APPROVED.
- PENETRATIONS IN FIRE-RESISTIVE WALLS, PARTITIONS AND FLOORS WHERE PROTECTED OPENINGS ARE REQUIRED SHALL BE FIRE STOPPED USING APPROVED MATERIALS, SECURELY INSTALLED AND CAPABLE OF MAINTAINING THEIR INTEGRITY AND PREVENTING THE MOVEMENT OF HOT FLAMES OR GASES THROUGH THE VOID SPACES BETWEEN PENETRATING MATERIALS AND WALLS, PARTITIONS AND FLOORS WHEN TESTED IN ACCORDANCE WITH ASTM STANDARD E-814 OR UL STANDARD 1479 (IBC SECTIONS 4304(e), 4305(a) & 4305(b)). PROVIDE DESIGN DETAILS ON DRAWINGS DEPICTING APPROVED (LISTED) METHODS AND MATERIALS USED TO PROTECT PENETRATIONS IN WALLS, PARTITIONS AND FLOORS.
- MATERIALS EXPOSED WITHIN PLENUMS SHALL COMPLY WITH CMC SECTION 602.2 AND UMC SECTION 604.2 AND SHALL HAVE MOLD-, HUMIDITY- AND EROSION-RESISTANT FACES THAT MEET UL 181 REQUIREMENTS.
- MECHANICAL DEMOLITION SHALL COMPLY WITH THE PROVISIONS SET FORTH IN THE 2016 CFC, CHAPTER 33.
- UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED, NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.

HVAC GENERAL NOTES

- CONTRACTOR SHALL CAREFULLY REVIEW THESE PLANS AND SPECIFICATIONS PRIOR TO BID. CONTRACTOR SHALL ALSO REVIEW PLANS AND SPECIFICATIONS OF OTHER RELATED TRADES (INCLUDING CIVIL, STRUCTURAL, AND ELECTRICAL) PRIOR TO BID TO ENSURE AN ACCURATE UNDERSTANDING OF EXACT SCOPE OF WORK. ANY ITEMS REQUIRING CLARIFICATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN SUFFICIENT TIME TO BE INCORPORATED INTO THE BID.
- CONTRACTOR SHALL VERIFY ALL EQUIPMENT MODEL NUMBERS, CAPACITIES, SIZES, VOLTAGES, AND ALL OTHER SCHEDULED INFORMATION WITH ALL OTHER APPLICABLE TRADES AND WITH THE MANUFACTURER PRIOR TO INSTALLATION.
- CONTRACTOR SHALL VERIFY ALL LOCATIONS, SIZES, P.O.C.'S, AND AVAILABILITY OF ALL EXISTING ITEMS (I.E.: OUTSIDE AIR, CWS & CWR, EXHAUST ETC.) PRIOR TO INSTALLATION OF ANY MATERIAL OR EQUIPMENT.
- THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL NECESSARY OFFSETS OF DUCTWORK AND PIPING. THE CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT IN A MANNER AS TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. ALL INSTALLATIONS SHALL BE CONSISTENT WITH NORMALLY ACCEPTABLE INDUSTRY STANDARDS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR CONFLICTS THAT WOULD AFFECT THE SYSTEM PERFORMANCE OR WHICH WOULD INCUR ADDITIONAL COSTS. THIS NOTIFICATION SHALL BE MADE PRIOR TO THE INSTALLATION OF THE ITEMS CONCERNED.
- NEW AND/OR EXISTING EQUIPMENT INDICATED ON THIS DRAWING IS SHOWN IN APPROXIMATE POSITION(S). CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING EQUIPMENT LOCATIONS, P.O.C.'S AND STRUCTURAL MEMBERS PRIOR TO INSTALLATION. IN ALL CASES, ADEQUATE ACCESS (PER MANUFACTURER'S RECOMMENDATIONS AND CODE COMPLIANCE) FOR MAINTENANCE AND REPLACEMENT OF EQUIPMENT SHALL BE PROVIDED.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES. NOTHING SHOWN IN THE PLANS OR STATED IN THE SPECIFICATIONS IS INTENDED TO INDICATE THAT THE INSTALLATION OF CONNECTIONS OF ANY ITEM OR DEVICE SHOULD BE DONE CONTRARY TO THE MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE CODES AND REGULATIONS. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE INSTALLATION AND CONNECTIONS OF ALL ITEMS AND DEVICES CONFORM TO MANUFACTURER'S INSTRUCTIONS AND TO ALL APPLICABLE CODES AND REGULATIONS.
- ALL HVAC EQUIPMENT, MATERIAL, AND ALL CONNECTION THERETO SHALL BE INSTALLED COMPLETE PER MANUFACTURER'S INSTRUCTIONS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL SYSTEM.
- DUCT SIZES INDICATED ON DRAWINGS ARE INSIDE NET CLEARANCE DIMENSIONS.
- CONTRACTOR MAY, AT HIS OPTION, REVISE DUCTWORK SIZING AND ROUTING TO ALLOW FOR INSTALLATION IN THE AVAILABLE SPACE. DUCTWORK THAT IS RESIZED MUST MAINTAIN THE SAME CROSS-SECTIONAL AREA. FLEX DUCT IS LIMITED TO A MAXIMUM OF 7' AT EACH REGISTER.
- ALL NEW SUPPLY, RETURN, AND EXHAUST (AIR DISTRIBUTION) GRILLES, REGISTERS, AND DIFFUSERS SHALL MATCH (IF APPLICABLE) EXISTING, AND BE APPROVED BY ARCHITECT. THE MAXIMUM NOISE NC LEVEL SHALL BE 35.
- ALL SUPPLY, RETURN, AND EXHAUST REGISTER CONNECTIONS TO DUCTWORK SHALL BE PROVIDED WITH ACCESSIBLE MANUAL VOLUME DAMPERS. ALTERNATIVELY, ACCESSIBLE MANUAL VOLUME DAMPERS MAY BE PROVIDED IN DUCT WORK FEEDER LINES SERVING INDIVIDUAL REGISTERS.
- SUBSTITUTION OF HVAC EQUIPMENT WITH EFFICIENCIES LOWER THAN THOSE INDICATED ON THE PLANS MAY REQUIRE RECALCULATION OF TITLE 24 DOCUMENTS. IF THE CONTRACTOR CHOOSES TO UTILIZE SUCH EQUIPMENT, HE ASSUMES FULL RESPONSIBILITY FOR THE RECALCULATION AND JURISDICTIONAL APPROVAL OF TITLE 24 DOCUMENTS.
- IF THE CONTRACTOR'S USE OF SUBSTITUTE MATERIALS, EQUIPMENT, OR METHODS OF INSTALLATION REQUIRES ANY CHANGES IN OTHER TRADES' WORK FROM THAT SHOWN ON THE DRAWINGS, THE EXTRA COST OF THE OTHER TRADES WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR INITIATING THE SUBSTITUTION.
- SUBMITTALS: APPROVAL OF SUBMITTALS DOES NOT RELEASE THE CONTRACTOR FROM OBLIGATIONS TO COMPLY WITH ALL REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS OR APPLICABLE CODE REGULATIONS.
- WHERE NONMETALLIC PIPING PENETRATES AREA SEPARATION WALLS, THE PIPE SECTION PASSING THROUGH THE WALLS AND THE FIXTURE CONNECTIONS THERETO SHALL BE OF METAL ONLY.
- NO RANGE HOODS, DRYER VENTS, COMBUSTION VENTS, OR HEATING DUCTS ARE PERMITTED IN AREA SEPARATION WALLS.
- A. CONTRACTOR TO VERIFY LOCATION OF FIRE AND FIRE/SMOKE BARRIER WALLS WITH ARCHITECT PRIOR TO FIRE AND/OR SMOKE DAMPER, DETECTOR AND ACTUATOR INSTALLATION.
- B. ALL CEILING FIRE DAMPERS TO BE ONE (1) HOUR U.L. AND C.S.F.M. APPROVED.
- C. ALL FIRE RATED WALLS SHALL BE PROVIDED WITH U.L. AND C.S.F.M. APPROVED SMOKE/FIRE DAMPERS (EQUAL TO WALL RATING), MOTOR, ACTUATOR, AND SMOKE DETECTOR.
- D. ALL SMOKE BARRIER WALLS SHALL BE PROVIDED WITH U.L. AND C.S.F.M. APPROVED SMOKE/FIRE DAMPERS (EQUAL TO WALL RATING), MOTOR, ACTUATOR, AND SMOKE DETECTOR.
- E. ALL PENETRATIONS OF ONE (1) HOUR CORRIDOR WALLS AND CEILINGS THAT WOULD REQUIRE THE INSTALLATION OF A FIRE DAMPER SHALL BE PROVIDED WITH A U.L. AND C.S.F.M. APPROVED COMBINATION SMOKE/FIRE DAMPER, (EQUAL TO WALL RATING), MOTOR, ACTUATOR, AND SMOKE DETECTOR.
- F. PROVIDE ALL FIRE & SMOKE DAMPERS WITH ACCESS DOORS AS NECESSARY.

LEGEND

SYMBOL	ABBR.	DESCRIPTION
	POC	POINT OF CONNECTION
	POD	POINT OF DISCONNECTION
		REMOVE EXIST. EQUIP. OR PIPES SHOWN HATCHED
		DUCT RISE / DUCT DROP
		DUCT WITH SOUND INSULATION/LINING
		ROOM THERMOSTAT & ZONE NUMBER/TEMP SENSOR
	HHWS	HEATING HOT WATER SUPPLY
	HHWR	HEATING HOT WATER RETURN
	MVD	MANUAL VOLUME DAMPER
		FURNISHED & INSTALLED BY MECHANICAL
		FURNISHED BY MECHANICAL INSTALLED BY ELECTRICAL
		FURNISHED & INSTALLED BY ELECTRICAL
		DIFFUSER/REGISTER AIR QUANTITY (C.F.M.) TYPE
		EQUIPMENT TAG TYPE EQUIPMENT NUMBER

VARIABLE AIR VOLUME WITH REHEAT BOX

MARK	MANUFACTURER & MODEL NO.	ROOMS SERVED	AIR HANDLER	INLET SIZE (DIA)	AIRFLOW (CFM)		MAX HTG. AIRFLOW (CFM)	NUMBER OF ROWS	HEATING CAPACITY (MBH)	WATER FLOW (GPM)	EAT (F)	EWT (F)	EMERGENCY POWER	OPER. WT. (LBS.)	REMARKS
					MAX.	MIN.									
(E) VRB-67	TUTTLE & BAILEY SDV-10	OPEN OFFICE AREA	(E)AH-10	10	475	290	290	2	7.5	0.5	55	180	-	-	REBALANCE (E) VRB AIRFLOW AS SCHEDULED.
	TUTTLE & BAILEY SDV-B	HR/PR/WAITING AREA	(E)AH-10	8	675	135	135	1	7.5	0.5	55	180	NO	50	-
(E) VRB-68	TUTTLE & BAILEY SDV-B	CASHIER 2 AND FILES 1	(E)AH-10	8	425	85	85	1	8.2	0.5	55	180	-	-	REBALANCE (E) VRB AIRFLOW AS SCHEDULED.
	TUTTLE & BAILEY SDV-12	CONFERENCE ROOM 16	(E)AH-10	12	1500	300	300	1	8.5	0.6	55	180	NO	50	-
(E) VRB-69	TUTTLE & BAILEY SDV-5	STEPH 3	(E)AH-10	5	150	30	30	1	4.5	0.5	55	180	-	-	REBALANCE (E) VRB AIRFLOW AS SCHEDULED.
(E) VRB-70	TUTTLE & BAILEY SDV-14	EXTERIOR OFFICES 6-9	(E)AH-10	14	1475	295	295	2	44.5	2.2	55	180	-	-	REBALANCE (E) VRB AIRFLOW AS SCHEDULED.
(E) VRB-72	TUTTLE & BAILEY SDV-5	OFFICE 4	(E)AH-10	5	150	30	30	1	4.5	0.5	55	180	-	-	REBALANCE (E) VRB AIRFLOW AS SCHEDULED.
(E) VRB-73	TUTTLE & BAILEY SDV-5	VICKY 5	(E)AH-10	5	180	36	36	1	4.5	0.5	55	180	-	-	REBALANCE (E) VRB AIRFLOW AS SCHEDULED.

AIR DISTRIBUTION DEVICE SCHEDULE

MARK	MANUFACTURER & MODEL	SERVICE	NECK SIZE	CFM	FACE SIZE	CEILING TYPE	TYPE	FINISH	REMARKS
	TITUS MCD	SUPPLY	8"	0 - 200	24x24	LAY-IN	MODULAR CORE ADJUSTABLE DIFFUSER	OFF-WHITE	4-WAY THROW UNLESS NOTED OTHERWISE.
			10"	201 - 380					
			12"	381 - 610					
			14"	611 - 925					
	TITUS PAR	RETURN	MATCH DUCT INLET SIZE	AS NOTED ON PLANS	24x24	LAY-IN	PERFORATED RETURN GRILLE	OFF-WHITE	-

CLIENT



Palo Verde Community College District
1 College Drive
Blythe, CA 92225

PROJECT NAME

Project 2
College Services Building
1 College Drive
Blythe, CA 92225

CONTRACTOR

DESIGNER



31045 Temecula Parkway
Suite 204
Temecula, CA 92592
T. 760.489.4432
www.sillmanwright.com

CONSULTANTS

REGISTRATION STAMP



ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.: 17009

DRAWN BY: DEC

CHECKED BY: MR

SCALE: AS NOTED

DESIGN ITERATION

DSA Submittal 09/22/2017

DSA Resubmittal 12/19/2017

DSA Resubmittal 2/7/2018

APP. NO.	FLS	DSH	SS	DW
APP. NO: 04 -	116526	INCR: 0		
DATE	02/09/2018			

DATE 2/7/2018

DATE: 12.19.17

SHEET TITLE

MECHANICAL
NOTES,
LEGEND, AND
SCHEDULES

SHEET NUMBER

MO.1

STATE OF CALIFORNIA
HVAC SYSTEM REQUIREMENTS
 CECS-NRCC-MCH-02-E (Revised 01/16)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 HVAC Wet System Requirements
 Project Name: Palo Verde Community College Date Prepared: 9/11/2017

Documentation Author's Declaration Statement
 I certify that this Certificate of Compliance documentation is accurate and complete.
 Documentation Author Name: Jemar Quibuyen
 Signature Date: 9/11/2017
 Company: DEC Engineers, Inc.
 Address: 7360 Carroll Road, Suite 100 San Diego, CA 92121
 Phone: (858) 578-3270

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: Christopher Deck
 Signature Date: 9/11/2017
 Company: DEC Engineers
 Address: 7360 Carroll Road Suite 100 San Diego, CA 92121
 License: M30087
 Phone: (858) 578-3270

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
MECHANICAL VENTILATION AND REHEAT
 CECS-NRCC-MCH-03-E (Revised 01/16)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Mechanical Ventilation & Reheat
 Project Name: Palo Verde Community College Date Prepared: 9/11/2017

Documentation Author's Declaration Statement
 I certify that this Certificate of Compliance documentation is accurate and complete.
 Documentation Author Name: Jemar Quibuyen
 Signature Date: 9/11/2017
 Company: DEC Engineers, Inc.
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 License: M30087
 Phone: (858) 578-3270

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance May 2016

STATE OF CALIFORNIA
HVAC DRY & WET SYSTEM REQUIREMENTS
 CECS-NRCC-MCH-02-E (Revised 01/16)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 HVAC Dry & Wet System Requirements
 Project Name: Palo Verde Community College Date Prepared: 9/11/2017

B. Equipment Tags and System Description - Wet Systems

MANDATORY MEASURES	T-24 Sections	Reference to the Requirements in the Contract Documents ²
Heating Hot Water Equipment Efficiency ¹	110.1	
Cooling Chilled and Condenser Water Equipment Efficiency ¹	110.1, 140.4(i)	
Open and Closed Circuit Cooling Towers - conductivity or flow-based controls	110.2(e) 1	
Open and Closed Circuit Cooling Towers - Maximum Achievable Cycles of Concentration (LSI) ¹	110.2(e) 2	
Open and Closed Circuit Cooling Towers - Flow Meter with analog output	110.2(e) 3	
Open and Closed Circuit Cooling Towers - Overflow Alarm	110.2(e) 4	
Open and Closed Circuit Cooling Towers - Efficient Drift Eliminators	110.2(e) 5	
Pipe Insulation	120.3	

PRESCRIPTIVE MEASURES

MANDATORY MEASURES	T-24 Sections	Reference to the Requirements in the Contract Documents ²
Cooling Tower Fan Controls	140.4(h)2, 140.4(h)5	Y/N
Cooling Tower Flow Controls	140.4(h)3	Y/N
Centrifugal Fan Cooling Towers ¹	140.4(h)4	Y/N
Air-Cooled Chiller Limitation ¹	140.4(j)	Y/N
Variable Flow System Design ¹	140.4(k)	Y/N
Chiller and Boiler Isolation	140.4(k)	Y/N
CHW and HHW Reset Controls	140.4(k)	Y/N
WLHP Isolation Valves	140.4(k)	Y/N
VSD on CHW, CW & WLHP Pumps >5HP	140.4(k)	Y/N
DP Sensor Location	140.4(k)	Y/N

Notes:
 1. Provide equipment tags (e.g. CH 1 to 3) or system description (e.g. CHW loop) as appropriate. Multiple units with common requirements can be grouped together.
 2. Provide references to plans (i.e. Drawing Sheet Numbers) and/or specifications (including Section name/number and relevant paragraphs) where each requirement is specified. Enter "N/A" if the requirement is not applicable to this system.
 3. The referenced plans and specifications must include all of the following information: equipment tag, equipment nominal capacity, Title 24 minimum efficiency requirements, and actual rated equipment efficiencies. Where multiple efficiency requirements are applicable (e.g. full- and part-load) include all. Where appliance standards apply (110.1), identify where equipment is required to be listed per Title 20 1601 et seq.
 4. Identify where the ventilation requirements are documented for each central HVAC system. Include references to both central unit schedules and sequences of operation. If one or more spaces is naturally ventilated identify where this is documented in the plans and specifications. Multiple zone central air systems must also provide a MCH-03-E compliance document.
 5. If air-cooled chillers are used, document which excursions have been used to comply with 140.4(j) and the total installed design capacity of the air-cooled chillers in the chilled water plant.
 6. Identify the existence of a completed MCH-06-E when open or closed circuit cooling towers are specified to be installed, otherwise enter "N/A".

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
HVAC DRY & WET SYSTEM REQUIREMENTS
 CECS-NRCC-MCH-02-E (Revised 01/16)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 HVAC Dry & Wet System Requirements
 Project Name: Palo Verde Community College Date Prepared: 9/11/2017

A. Equipment Tags and System Description - Dry Systems

MANDATORY MEASURES	T-24 Sections	Reference to the Requirements in the Contract Documents ²
Heating Equipment Efficiency ¹	110.1 or 110.2(a)	
Cooling Equipment Efficiency ¹	110.1 or 110.2(a)	
HVAC or Heat Pump Thermostats	110.2(b), 110.2(c)	
Furnace Standby Loss Control	110.2(d)	
Low Leakage AHUs	110.2(f)	
Ventilation	120.1(b)	
Demand Control Ventilation ³	120.1(c)4	
Occupant Sensor Ventilation Control ³	120.1(c)5, 120.2(e)3	
Shutoff and Reset Controls ¹	120.2(e)	
Outdoor Air and Exhaust Damper Control	120.2(f)	
Isolation Zones	120.2(g)	
Automatic Demand Shed Controls	120.2(h)	
Economizer FDD	120.2(i)	
Duct Insulation	120.4	

PRESCRIPTIVE MEASURES

MANDATORY MEASURES	T-24 Sections	Reference to the Requirements in the Contract Documents ²
Equipment is sized in conformance with 140.4(a & b)	140.4(a & b)	Y/N
Supply Fan Pressure Control	140.4(c)	Y/N
Simultaneous Heat/Cool ³	140.4(d)	Y/N
Economizer	140.4(e)	Y/N
Heat and Cool Air Supply Reset	140.4(f)	Y/N
Electric Resistance Heating ¹	140.4(g)	Y/N
Duct Leakage Sealing and Testing ¹	140.4(i)	Y/N

Notes:
 1. Provide equipment tags (e.g. AHU 1 to 10) and system description (e.g. Single Duct VAV reheat) as appropriate. Multiple units with common requirements can be grouped together.
 2. Provide references to plans (i.e. Drawing Sheet Numbers) and/or specifications (including Section name/number and relevant paragraphs) where each requirement is specified. Enter "N/A" if the requirement is not applicable to this system.
 3. The referenced plans and specifications must include all of the following information: equipment tag, equipment nominal capacity, Title 24 minimum efficiency requirements, and actual rated equipment efficiencies. Where multiple efficiency requirements are applicable (e.g. full- and part-load) include all. Where appliance standards apply (110.1), identify where equipment is required to be listed per Title 20 1601 et seq.
 4. Identify where the ventilation requirements are documented for each central HVAC system. Include references to both central unit schedules and sequences of operation. If one or more spaces is naturally ventilated identify where this is documented in the plans and specifications. Multiple zone central air systems must also provide a MCH-03-E compliance document.
 5. If one or more spaces has demand controlled ventilation identify where it is specified including the sensor specifications and the sequence of operation.
 6. If one or more space has occupant sensor ventilation control identify where it is specified including the sensor specifications and the sequence of operation.
 7. If the system is DDC identify the sequences for the system start/stop, optimal start, setback (if required) and setup (if required). For all systems identify the specification for the thermostats and time clocks (if applicable).
 8. Identify where the heating, cooling and deadband airflows are scheduled for this system. Include a reference to the specification of the zone controls. Provide a MCH-03-E compliance document.
 9. Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.
 10. If duct leakage sealing and testing is required, a MCH-04-A compliance document must be submitted.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
WATER HEATING SYSTEM GENERAL INFORMATION
 CECS-NRCC-PLB-01-E (Revised 01/16)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Water Heating System General Information
 Project Name: Palo Verde Community College Date Prepared: 9/11/2017

A. GENERAL INFORMATION/SYSTEM INFORMATION

01 Water Heater System Name:	Chronomite SR-20L/208
02 Water Heater System Configuration:	Non-Central
03 Water Heater System Type:	
04 Building Type:	
05 Total Number of Water Heaters in Systems:	1
06 Central DHW Distribution Type:	n/a
07 Dwelling Unit DHW Distribution Type:	Standard

B. WATER HEATER INFORMATION
 Each water heater type requires a separate compliance document.

01 Water Heater Type:	Small Instantaneous Electric
02 Fuel Type:	Electric Res
03 Manufacture Name:	Chronomite SR-20L/208
04 Model Number:	
05 Number of Identical Water Heaters:	1
06 Installed Water Heater System Efficiency:	0.99
07 Required Minimum Efficiency:	0.99
08 Standby Loss Percent or Standby Loss Total:	0.000
09 Rated Input:	14,198
10 Pilot Energy:	
11 Water Heater Tank Storage Volume:	1
12 Exterior Insulation on Water Heater:	0
13 Volume of Supplemental Storage:	
14 Internal Insulation on Supplemental Storage:	
15 Exterior Insulation on Supplemental Storage:	

C. PLUMBING COMPLIANCE FORMS & WORKSHEETS
 Check box if worksheet is included.
 For detailed instructions on the use of this and all Energy Standards compliance documents, refer to the 2016 Nonresidential Manual
 Note: The Enforcement Agency may require all compliance documents to be incorporated onto the building plans.

YES	NO	Doc/Worksheet #	Title
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-PLB-01-E	Certificate of Compliance, Declaration. Required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-PLB-01-E	Certificate of Installation. Required on plans for all submittals.
<input type="checkbox"/>	<input type="checkbox"/>	NRCC-PLB-02-E	Certificate of Installation, required on central systems in high-rise residential, hotel/motel application.
<input type="checkbox"/>	<input type="checkbox"/>	NRCC-PLB-03-E	Certificate of Installation, required on single dwelling unit systems in high-rise residential, hotel/motel application.
<input type="checkbox"/>	<input type="checkbox"/>	NRCC-PLB-21-H	Certificate of Installation, required on HERS verified central systems in high-rise residential, hotel/motel application.
<input type="checkbox"/>	<input type="checkbox"/>	NRCC-PLB-22-H	Certificate of Installation, required on HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.
<input type="checkbox"/>	<input type="checkbox"/>	NRCC-STH-01-E	Certificate of Installation, required on any solar water heating

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
WATER HEATING SYSTEM GENERAL INFORMATION
 CECS-NRCC-PLB-01-E (Revised 01/16)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Water Heating System General Information
 Project Name: Palo Verde Community College Date Prepared: 9/11/2017

Documentation Author's Declaration Statement
 I certify that this Certificate of Compliance documentation is accurate and complete.
 Documentation Author Name: Jemar Quibuyen
 Signature Date: 9/11/2017
 Company: DEC Engineers, Inc.
 Address: 7360 Carroll Road, Suite 100 San Diego, CA 92121
 Phone: (858) 578-3270

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: Christopher Deck
 Signature Date: 9/11/2017
 Company: DEC Engineers
 Address: 7360 Carroll Road Suite 100 San Diego, CA 92121
 License: M30087
 Phone: (858) 578-3270

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

CLIENT



Palo Verde Community College District
 1 College Drive
 Blythe, CA 92225

PROJECT NAME

Project 2
 College Services Building
 1 College Drive
 Blythe, CA 92225

CONTRACTOR

DESIGNER



31045 Temecula Parkway
 Suite 204
 Temecula, CA 92592
 T. 760.489.4432
 www.sillmanwright.com

CONSULTANTS

REGISTRATION STAMP



ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.: 17009

DRAWN BY: DEC

CHECKED BY: MR

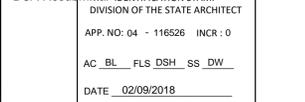
SCALE: AS NOTED

DESIGN ITERATION

DSA Submittal 09/22/2017

DSA Resubmittal 12/19/2017

DSA Resubmittal 2/7/2018



DATE 2/7/2018

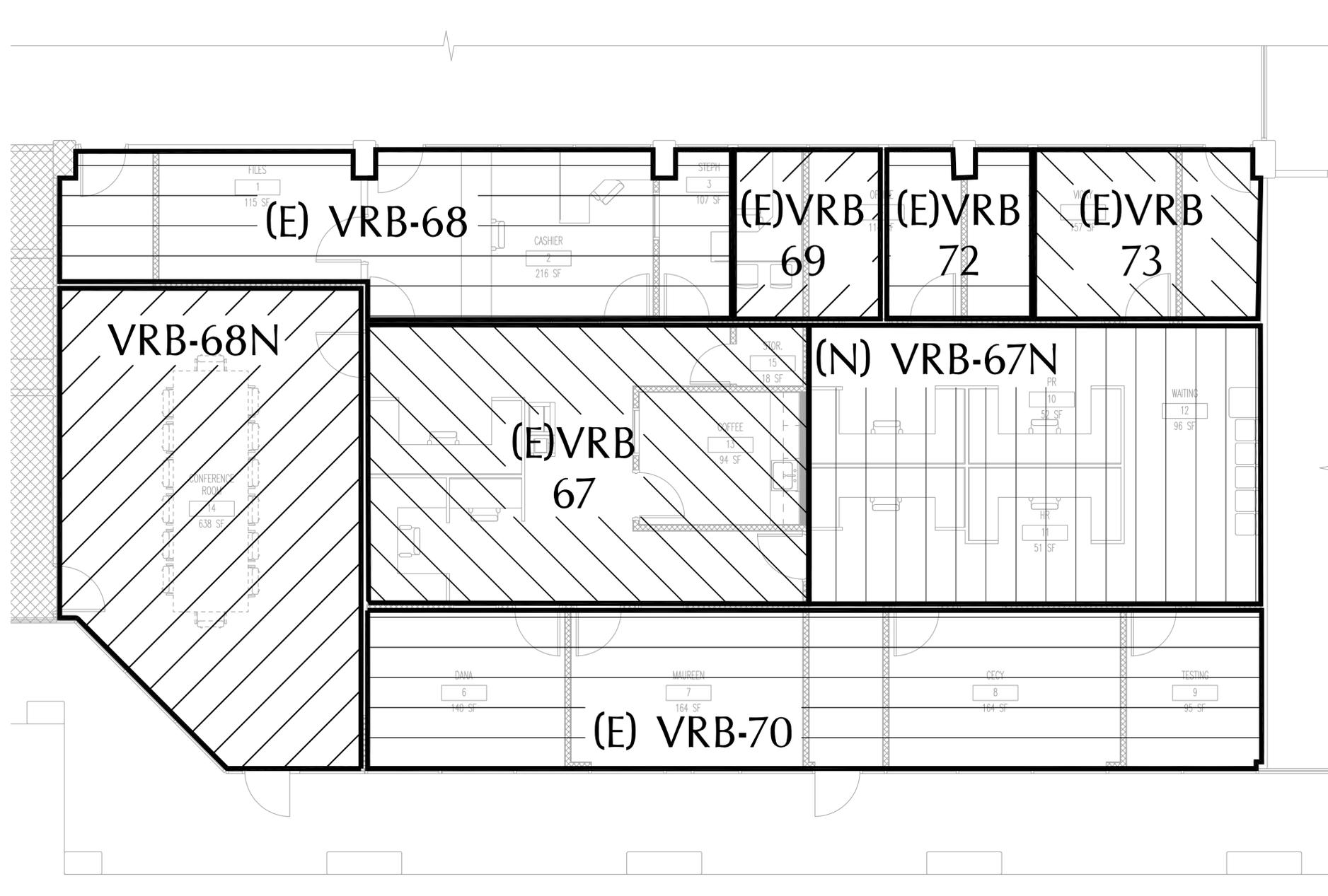
DATE: 12.19.17

SHEET TITLE

MECHANICAL
 TITLE 24

SHEET NUMBER

MO.3



CLIENT



Palo Verde Community College District
1 College Drive
Blythe, CA 92225

PROJECT NAME

Project 2
College Services Building
1 College Drive
Blythe, CA 92225

CONTRACTOR

DESIGNER



CONSULTANTS

REGISTRATION STAMP



ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.: 17009

DRAWN BY: DEC

CHECKED BY: MR

SCALE: AS NOTED

DESIGN ITERATION

DSA Submittal 09/22/2017

DSA Resubmittal 12/19/2017

DSA Resubmittal IDENTIFICATION STAMP 2/7/2018

DIVISION OF THE STATE ARCHITECT

APP. NO: 04 - 116526 INCR: 0

AC BL FLS DSH SS DW

DATE 02/09/2018

DATE 2/7/2018

DATE: 12.19.17

SHEET TITLE

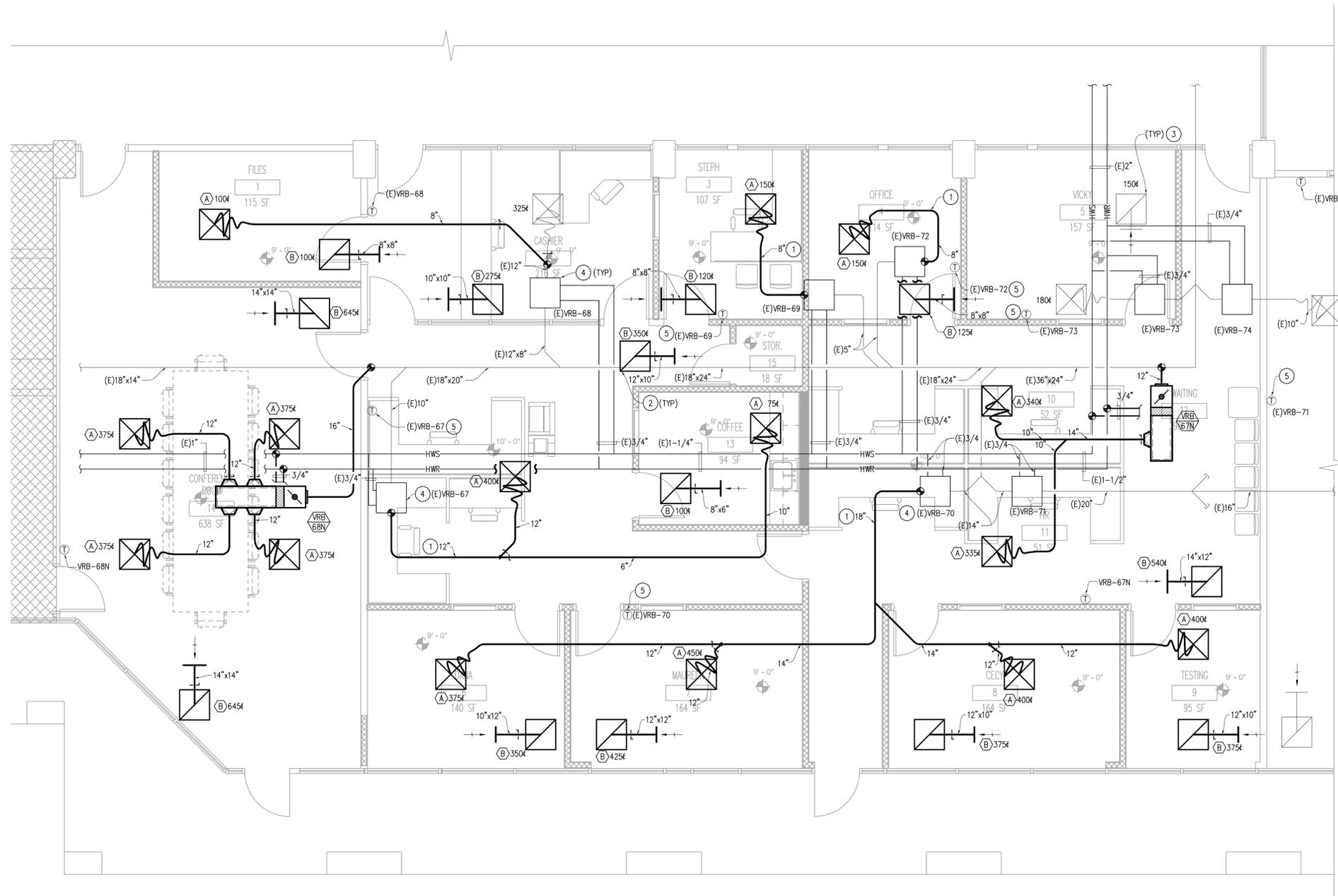
MECHANICAL ZONING PLAN

SHEET NUMBER

M2.0

NEW WORK NOTES

- 1 PROVIDE NEW DUCTWORK AND CONNECT TO EXISTING VRB BOX AS SHOWN.
- 2 INSTALL NEW GRILLE AND BALANCE AS SHOWN.
- 3 REBALANCE EXISTING DIFFUSER OR GRILLE TO AIRFLOW SHOWN.
- 4 REBALANCE EXISTING VRB TO AIRFLOW AS SCHEDULED. EXTEND VRB AS REQUIRED FOR CONNECTION OF NEW DUCTWORK.
- 5 NEW LOCATION OF EXISTING THERMOSTAT.



CLIENT



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1 College Drive
Blythe, CA 92225

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31045 Temecula Parkway
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www.sillmanwright.com

CONSULTANTS

REGISTRATION STAMP



ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.: 17009

DRAWN BY: DEC

CHECKED BY: MR

SCALE: AS NOTED

DESIGN ITERATION

DSA Submittal 09/22/2017

DSA Resubmittal 12/19/2017

DSA Resubmittal IDENTIFICATION STAMP 2/7/2018

APP. NO: 04 - 116526 INCR: 0
AC BL FLS DSH SS DW
DATE 02/09/2018

DATE 2/7/2018

DATE: 12.19.17

SHEET TITLE

MECHANICAL
SECOND FLOOR
PLAN - NEW WORK

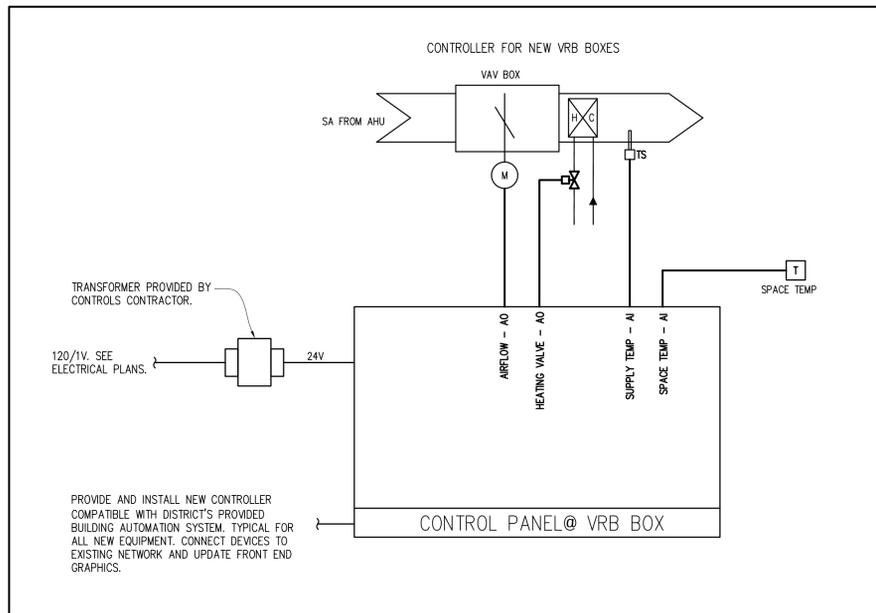
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M2.1

MECHANICAL FLOOR PLAN - NEW WORK

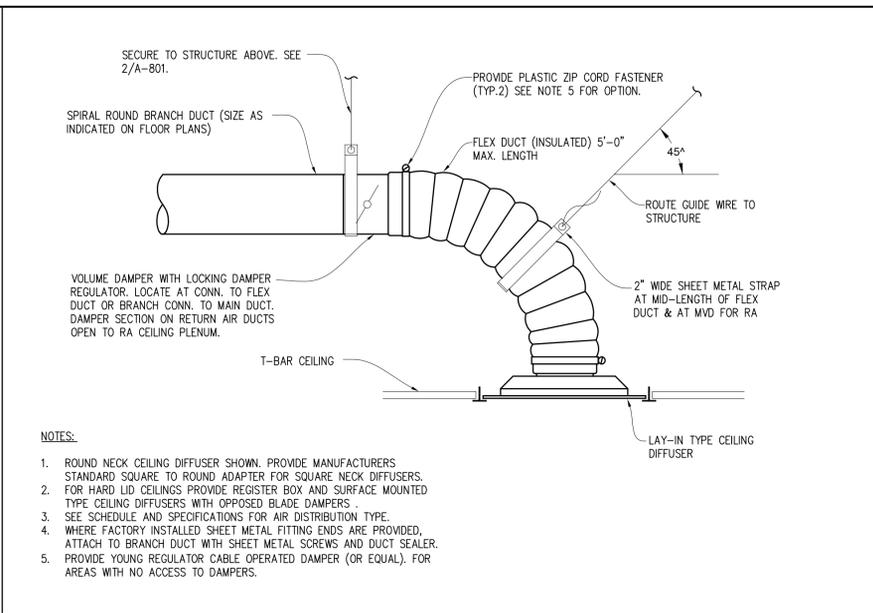
SCALE
1/4" = 1'-0"

1



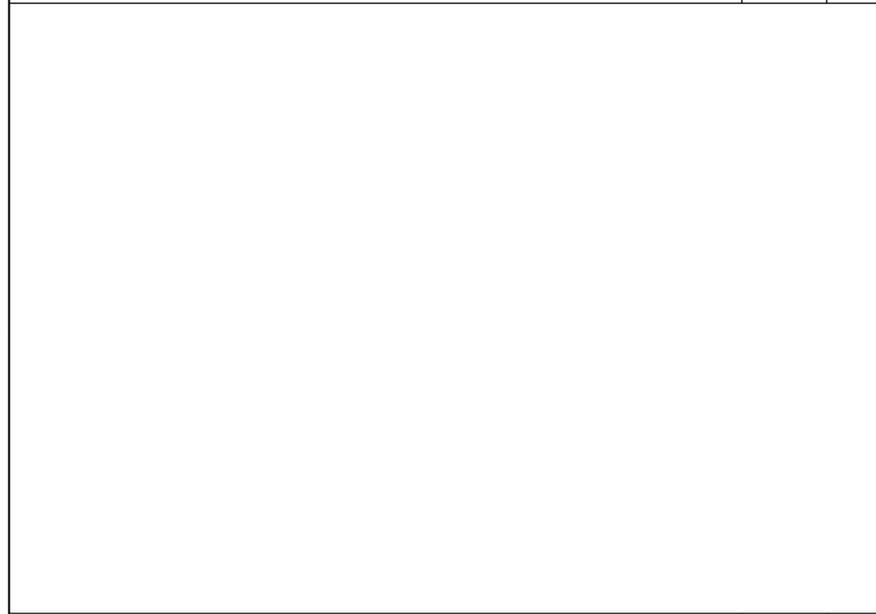
VRB BOX CONTROLS

SCALE NONE 6



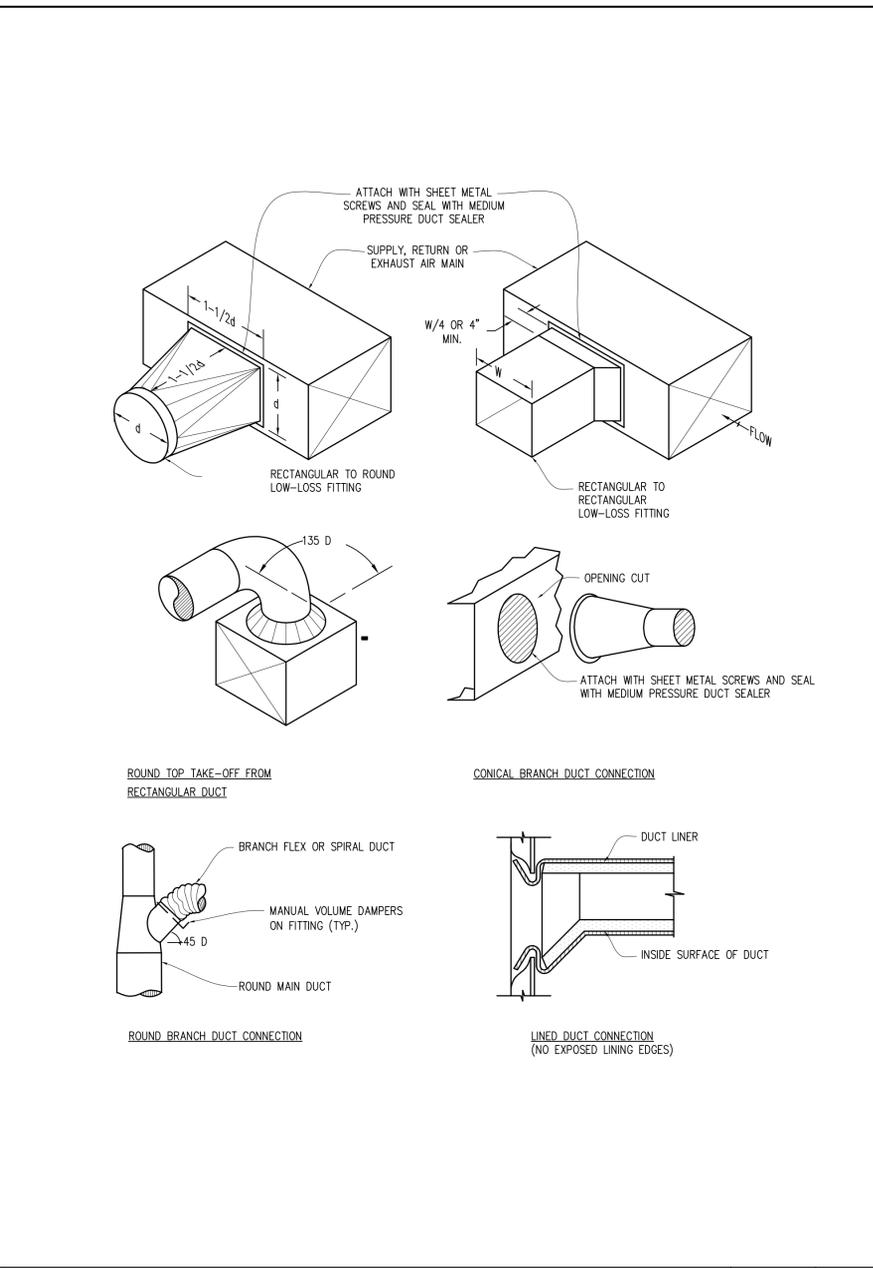
TYPICAL CEILING DIFFUSER

SCALE NONE 3



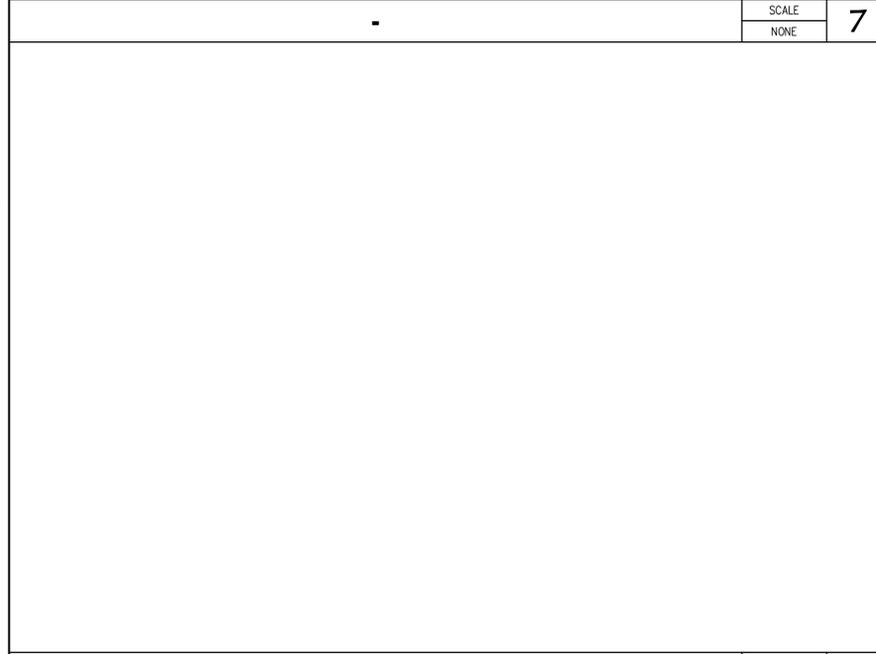
GENERAL VAV TERMINAL

SCALE NONE 4



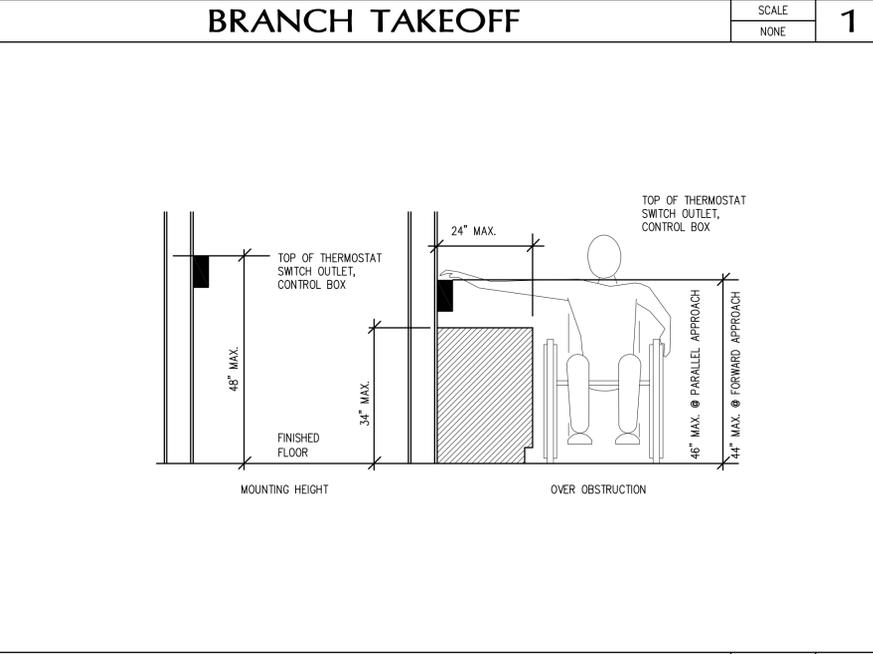
BRANCH TAKEOFF

SCALE NONE 1



HHW COIL DIAGRAM

SCALE NONE 5



THERMOSTAT MOUNTING HEIGHT

SCALE NONE 2

CLIENT

PALO VERDE COLLEGE
WHERE KNOWLEDGE TAKES ROOT AND OPPORTUNITY GROWS

Palo Verde Community College District
1 College Drive
Blythe, CA 92225

PROJECT NAME

Project 2
College Services Building
1 College Drive
Blythe, CA 92225

CONTRACTOR

DESIGNER

SILLMAN WRIGHT ARCHITECTS 31045 Temecula Parkway Suite 204 Temecula, CA 92592 T. 760.489.4432 www.sillmanwright.com

CONSULTANTS

REGISTRATION STAMP

DEC ENGINEERS REGISTERED PROFESSIONAL ENGINEER CIVIL ENGINEERING STATE OF CALIFORNIA

ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.: 17009

DRAWN BY: DEC

CHECKED BY: MR

SCALE: AS NOTED

DESIGN ITERATION

DSA Submittal 09/22/2017

DSA Resubmittal 12/19/2017

DSA Resubmittal 2/7/2018

FILE NUMBER: 33-C4

IDENTIFICATION STAMP

DIVISION OF THE STATE ARCHITECT

APP. NO: 04 - 116526 INCR: 0

AC: BL FLS DSH SS DW

DATE: 02/09/2018

DATE: 2/7/2018

DATE: 12.19.17

SHEET TITLE

MECHANICAL DETAILS

SHEET NUMBER

M5.1

ANCHORAGE & BRACING NOTE

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 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 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED TO BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY 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 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 RESIST THE FORCES 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 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. COMPLY WITH DETAILS AND PROJECT SPECIFIC NOTES AS SHOWN ON THE APPROVED DRAWINGS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

- 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#) # 0043-13
- MP MD PP OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009) INCLUDING ADDENDA, FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA 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 _____ AND CONNECTION LEVEL _____ FOR THE PROJECT AND CONDITIONS.

PLUMBING PLAN CHECK NOTES

1. WHERE PLUMBING PENETRATES THE FIRE RESISTIVE WALLS (AREA SEPARATION AND OCCUPANCY SEPARATION), THE SECTION PASSING THROUGH THE WALL SURFACE, AND THE FIXTURE CONNECTIONS ATTACHED THERETO, SHALL MEET CBC, FIRE AND TEMPERATURE RATING.
2. ALL WATER HEATERS SHALL BE LISTED IN THE CEC LIST OF APPROVED WATER HEATERS.
3. ALL PLUMBING FIXTURES, FAUCETS AND SHOWER HEADS SHALL COMPLY WITH CALIFORNIA GREEN BUILDING CODE MAXIMUM FLOW REQUIREMENTS PER MINUTE (1.5 GPM FOR FAUCETS) (2.0 GPM FOR SHOWER HEADS) (1.28 GPF FOR WATER CLOSETS) (1.0 GPF FOR URINALS)
4. ALL SERVICE HOT WATER AND HOT WATER RETURN PIPING SHALL BE INSULATED IN ACCORDANCE WITH 609.11 CPC. HOT WATER PIPE INSULATION SHALL HAVE A MINIMUM WALL THICKNESS OF NOT LESS THAN THE DIAMETER OF THE PIPE UP TO 2 INCHES (50mm) IN DIAMETER. INSULATION WALL THICKNESS SHALL BE NOT LESS THAN 2 INCHES (51mm) FOR A PIPE OF 2 INCHES (50mm) OR MORE IN DIAMETER.
5. SLOPE ALL ABOVE AND BELOW GRADE STORM WATER PIPING AT 1/8" PER FOOT (1%).
6. VALVES, FIXTURES AND ALL OTHER APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF CALIFORNIA ASSEMBLY BILL AB1953, LOW LEAD CONTENT AS APPLICABLE.
7. EACH LAVATORY SHALL NOT EXCEED A WATER FLOW OF 0.5 GPM.
8. EACH VENT SHALL RISE VERTICALLY TO A POINT NOT LESS THAN SIX (6) INCHES ABOVE THE FLOOD-LEVEL RIM OF THE FIXTURE SERVED BEFORE OFFSETTING HORIZONTALLY OR BEFORE BEING CONNECTED TO ANY OTHER VENT.
9. VENTS LESS THAN SIX (6) ABOVE THE FLOOD LEVEL RIM OF THE FIXTURE SHALL BE INSTALLED WITH APPROVED DRAINAGE FITTINGS, MATERIAL, AND GRADE TO THE DRAIN.
10. EACH PLUMBING FIXTURE THAT CONNECTS TO THE SANITARY SEWER SYSTEM SHALL BE PROPERLY TRAPPED AND VENTED IN ACCORDANCE WITH THE 2013 CALIFORNIA PLUMBING CODE.

PIPE MATERIALS SCHEDULE

DOMESTIC WATER PIPING ABOVE, INSIDE BUILDING.

1. TYPE "L" COPPER TUBING, HARD DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT COPPER SOLDER SWEAT FITTINGS CONFORMING TO ASTM B 16.22.

SEWER WASTE PIPING BELOW GRADE.

1. SOLID-WALL PVC PIPE, ASTM D 2665, DRAIN, WASTE AND VENT PIPING. PVC SOCKET FITTINGS CONFORMING TO ASTM D 2665, SOCKET TYPE, MADE TO ASTM D 3311 DRAIN, WASTE, AND VENT PATTERNS. INSTALL BELOW SLAB/GRADE PVC PIPING PER ASTM D 2321.
2. SEWER, WASTE, VENT & STORM DRAIN PIPING BELOW FLOOR: CAST IRON "NO-HUB" CONFORMING TO CISPI 301 AND ASTM A 888, WITH NEOPRENE GASKET AND 300 SERIES STAINLESS STEEL CLAMPING DEVICE CONFORMING TO CISPI 310.

SEWER WASTE PIPING ABOVE GRADE.

1. CAST IRON "NO-HUB" CONFORMING TO CISPI 301 AND ASTM A 888 WITH NEOPRENE GASKET AND 300 SERIES STAINLESS STEEL CLAMPING DEVICE CONFORMING TO CISPI 310.
 - A. DRAIN PIPING: HEAVY DUTY, SHIELDED, STAINLESS-STEEL COUPLINGS; WITH STAINLESS-STEEL SHIELD, STAINLESS-STEEL BANDS AND TIGHTENING DEVICES, AND ASTM C 564, RUBBER SLEEVE.
 - B. VENT PIPING: STANDARD, SHIELDED, CISPI 310 STAINLESS-STEEL COUPLINGS; WITH STAINLESS-STEEL SHIELD, STAINLESS-STEEL BANDS AND TIGHTENING DEVICES, AND ASTM C 564, RUBBER SLEEVE.

PLUMBING GENERAL NOTES

1. CONTRACTOR SHALL CAREFULLY REVIEW THESE PLANS AND SPECIFICATIONS PRIOR TO BID. CONTRACTOR SHALL ALSO REVIEW PLANS AND SPECIFICATIONS OF OTHER RELATED TRADES (INCLUDING CIVIL, STRUCTURAL, AND ELECTRICAL) PRIOR TO BID TO INSURE AN ACCURATE UNDERSTANDING OF EXACT SCOPE OF WORK. ANY ITEMS REQUIRING CLARIFICATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN SUFFICIENT TIME TO BE INCORPORATED INTO THE BID.
2. CONTRACTOR SHALL VERIFY ALL EQUIPMENT MODEL NUMBERS, CAPACITIES, SIZES, VOLTAGES, AND ALL OTHER SCHEDULED INFORMATION WITH OTHER APPLICABLE TRADES AND WITH THE MANUFACTURER PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL VERIFY ALL LOCATIONS, SIZES, POC'S, INVERT ELEVATIONS, AND AVAILABILITY OF ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF ANY MATERIAL OR EQUIPMENT.
4. THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL DETAILS AND NECESSARY OFFSETS OF PIPING. THE CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT IN A MANNER AS TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. ALL INSTALLATIONS SHALL BE CONSISTENT WITH NORMALLY ACCEPTABLE INDUSTRY STANDARDS.
5. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR CONFLICTS THAT WOULD EFFECT THE SYSTEM PERFORMANCE OR INCUR ADDITIONAL COSTS. THIS NOTIFICATION SHALL BE SUBMITTED PRIOR TO INSTALLATION OF THE ITEMS CONCERNED.
6. NEW AND/OR EXISTING EQUIPMENT INDICATED ON THIS DRAWING IS SHOWN IN APPROXIMATE POSITION(S). CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING EQUIPMENT LOCATIONS, POC'S AND STRUCTURAL MEMBERS PRIOR TO INSTALLATION. IN ALL CASES, ADEQUATE ACCESS (PER MANUFACTURERS RECOMMENDATIONS AND CODE COMPLIANCE) FOR MAINTENANCE AND REPLACEMENT OF EQUIPMENT SHALL BE PROVIDED.
7. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES. NOTHING SHOWN ON THE PLANS OR STATED IN THE SPECIFICATIONS IS INTENDED TO INDICATE THAT THE INSTALLATIONS OR CONNECTIONS OF ANY ITEM OR DEVICE SHOULD BE DONE CONTRARY TO MANUFACTURERS' INSTRUCTIONS AND ALL APPLICABLE CODES AND REGULATIONS.
8. THE CONTRACTOR IS RESPONSIBLE TO INSURE THAT THE INSTALLATIONS AND CONNECTIONS OF ALL ITEMS AND DEVICES CONFORMS TO MANUFACTURERS' INSTRUCTIONS AND TO ALL APPLICABLE CODES AND REGULATIONS.
9. SUBSTITUTION OF PLUMBING EQUIPMENT WITH EFFICIENCIES LOWER THAN THOSE INDICATED ON THE PLANS MAY REQUIRE RE-CALCULATION OF TITLE 24 DOCUMENTS. IF THE CONTRACTOR CHOOSES TO UTILIZE SUCH EQUIPMENT, HE ASSUMES FULL RESPONSIBILITY FOR THE RE-CALCULATION AND JURISDICTIONAL APPROVAL OF TITLE 24 DOCUMENTS.
10. IF THE CONTRACTORS' USE OF SUBSTITUTE MATERIALS, EQUIPMENT OR METHODS OF INSTALLATION REQUIRES ANY CHANGES IN OTHER TRADES WORK FROM THAT SHOWN ON THE DRAWINGS, THE EXTRA COST OF THE OTHER TRADES' WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR INITIATING THE SUBSTITUTION.
11. SUBMITTALS: APPROVAL OF THE SUBMITTALS DOES NOT RELEASE THE CONTRACTOR FROM OBLIGATIONS TO FULLY COMPLY WITH ALL REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS OR APPLICABLE CODE REGULATIONS.
12. ALL PLUMBING EQUIPMENT, MATERIAL, AND ALL CONNECTIONS THERETO SHALL BE INSTALLED COMPLETE PER MANUFACTURERS' INSTRUCTIONS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL SYSTEM.
13. PLUMBING EQUIPMENT SHALL BE CERTIFIED BY AND COMPLY WITH THE STATE OF CALIFORNIA ENERGY CONSERVATION STANDARDS (E.E.S.) SECTION 113. COMPLIANCE CERTIFICATES SHALL BE PROVIDED WITH EQUIPMENT SUBMITTALS.
14. WHERE NON-METALLIC PIPING PENETRATES AREA SEPARATION, 1 HOUR, OR 2 HOUR WALLS, THE PIPE SECTION PASSING THROUGH THE WALLS AND EXTENDING A DISTANCE OF 5 FEET ON EITHER SIDE THERE-OF SHALL BE OF METAL ONLY.
15. ALL INSULATING MATERIALS INSTALLED MUST BE CERTIFIED BY CALIFORNIA ENERGY COMMISSION TO MEET C.E.C. ENERGY EFFICIENCY STANDARDS (E.E.S.) SECTION 118, 123 AND 124.
16. WATER HEATERS FOR DOMESTIC HOT WATER SHALL COMPLY WITH THE STATE OF CALIFORNIA ENERGY EFFICIENCY STANDARDS (E.E.S.) SECTION 113, AND 114.
17. SOIL, SEWER AND WASTE PIPING SHALL SLOPE AT 1/4" PER FOOT MINIMUM, UNLESS OTHERWISE NOTED.
18. ALL PLUMBING SOLDER SHALL BE LEAD FREE.
19. ALL COMPONENTS OF POTABLE WATER SYSTEM, INCLUDING SHUT OFF VALVES, ANGLE STOPS, AND PLUMBING FIXTURE SHALL COMPLY WITH CALIFORNIA LAW AB 1953 AND SECTION 116875 OF THE CALIFORNIA HEALTH AND SAFETY CODE.
20. PROVIDE CLEANOUTS EVERY 100' AND AT ANY CHANGE OF DIRECTION EXCEEDING 135 DEGREES.

LEGEND

SYMBOL	ABBR.	DESCRIPTION
●	POC	POINT OF CONNECTION
○	POD	POINT OF DISCONNECTION
— (E) —	(E)	EXISTING PIPING - SEE PLANS FOR TYPE
---/---		REMOVE EXIST. EQUIP. OR PIPES SHOWN HATCHED
---	S OR W	SOIL OR WASTE BELOW FLOOR OR GRADE
---	S OR W	SOIL OR WASTE ABOVE FLOOR OR GRADE
---	V	SANITARY VENT
---	CW	COLD WATER (DOMESTIC)
Φ	FCO	FLOOR CLEAN OUT
	WCO	WALL CLEAN-OUT OR CLEAN-OUT BELOW FLOOR
○		DOWN OR DROP
○		UP OR RISE
A/C		ABOVE CEILING
ARCH		ARCHITECT OR ARCHITECTURAL
B/G		BELOW GRADE
B/F		BELOW FLOOR
B/S		BELOW SLAB
DN		DOWN
EXIST		EXISTING
FIN		FINISH OR FINISHED
FLR		FLOOR
FT		FEET OR FOOT
GPM		GALLONS PER MINUTE
N.I.C.		NOT IN CONTRACT
NTS		NOT TO SCALE
TYP		TYPICAL
VTR		VENT THROUGH ROOF
CD		CONDENSATE PIPING
G		GAS PIPING
HPG		HIGH PRESSURE GAS

SPECIAL NOTE TO PLUMBING CONTRACTOR

THE DESIGN OF THIS PROJECT WAS BASED UPON INFORMATION CONTAINED IN DRAWINGS PROVIDED BY THE PROPERTY OWNER. DISCREPANCIES BETWEEN INDICATED AND ACTUAL FIELD CONDITIONS MAY EXIST. IT IS A REQUIREMENT THAT THE CONTRACTOR VISIT THE SITE AND WALK THE JOB BEFORE SUBMITTING HIS BID AND SHALL MAKE ALL ALLOWANCES FOR PLAN/FIELD CONDITION DISCREPANCIES PRIOR TO SUBMITTING FOR BID. DURING THE CONSTRUCTION PROCESS IF A DISCREPANCY IS FOUND TO EXIST, THE CONTRACTOR SHALL DETERMINE A FIELD SOLUTION TO RESOLVE THE PROBLEM, AND THEN FORWARD THIS INFORMATION TO THE ARCHITECT FOR SUBMITTAL TO THE ENGINEER FOR APPROVAL. ADDITIONALLY, SEE PLUMBING GENERAL NOTES, SHEET P0-1.

CLIENT



Palo Verde Community College District
1 College Drive
Blythe, CA 92225

PROJECT NAME

Project 2
College Services Building
1 College Drive
Blythe, CA 92225

CONTRACTOR

DESIGNER



CONSULTANTS

REGISTRATION STAMP



ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.: 17009

DRAWN BY: DEC

CHECKED BY: MR

SCALE: AS NOTED

DESIGN ITERATION

DSA Submittal 09/22/2017

DSA Resubmittal 12/19/2017

DSA Resubmittal 2/7/2018

APP. NO. 04 - 116526 INCR. 0

AC, BL, FLS, DSH, SS, DW

DATE 02/09/2018

DATE 2/7/2018

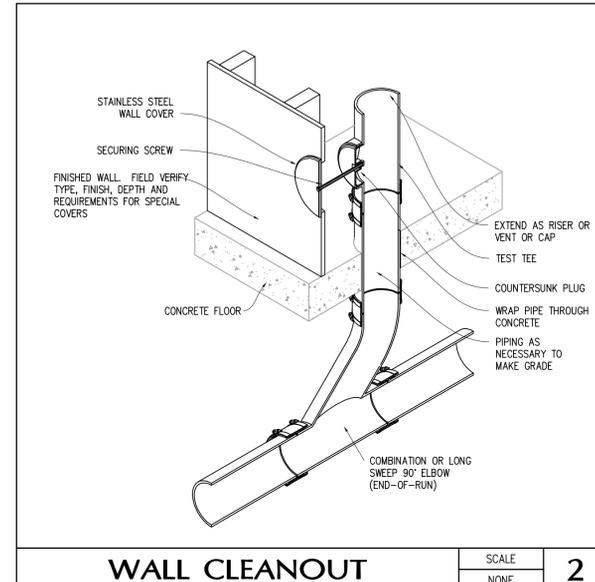
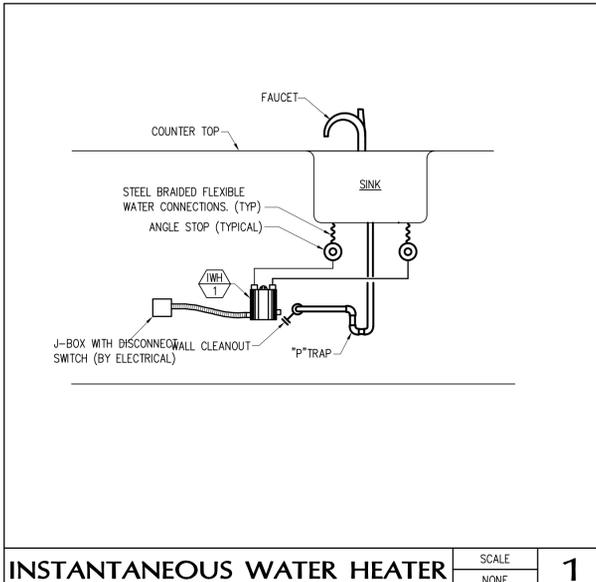
DATE: 12.19.17

SHEET TITLE

PLUMBING
NOTES,
LEGEND, AND
SCHEDULES

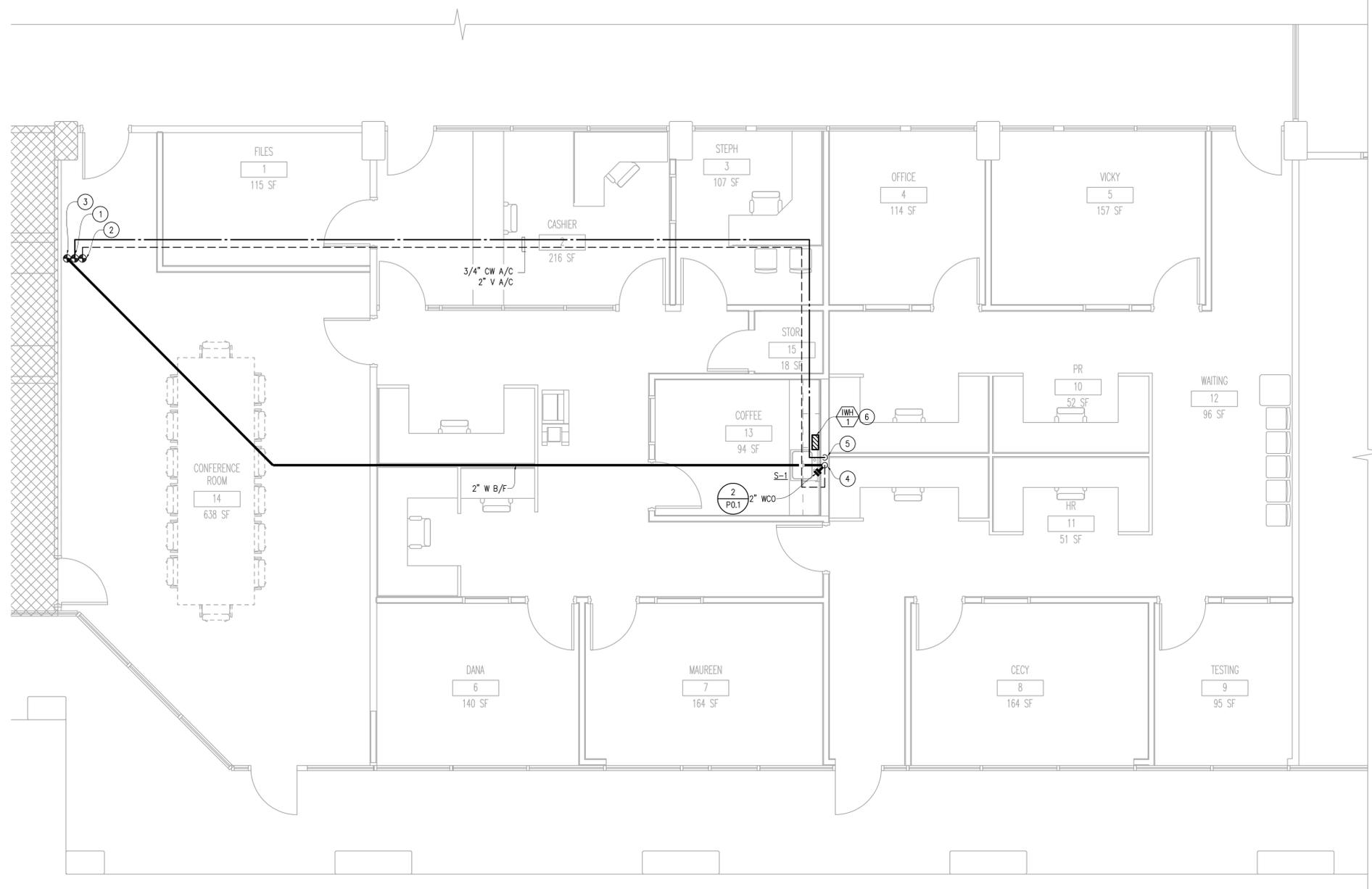
SHEET NUMBER

P0.1



UNIT NO.	MANUFACTURER & MODEL NO.	SERVICE	LOCATION	DEGREE RISE ° AT 0.75 GPM	SYSTEM OUTLET TEMP. (°F)	ELECTRICAL DATA			OPER. WT. (LBS)
						V/PH/Hz	WATTS	AMPS	
IWH 1	CHRONOMITE SR-20L / 208	BREAK ROOM SINK	UNDER COUNTER BREAK ROOM SINK	38	110	208/1/60	4160	20	5

MARK	DESCRIPTION	MINIMUM PIPE CONNECTION				MANUFACTURER / MODEL NUMBER
		CW ROUGH-IN	HW ROUGH-IN	WASTE	VENT	
S-1	SINK	3/4"	3/4"	2"	2"	ELKAY #LRAD1918 TOP MOUNT, STAINLESS STEEL SINK WITH 3 FAUCET HOLES ON 4" CENTERS, 19"x18"x6-1/2". PROVIDE WITH SYMMONS #S-26-IPS-2.0 KITCH FAUCET WITH 2.0 GPM FLOW CONTROL.



- ### NEW WORK NOTES
- ① POINT OF CONNECTION 3/4" COLD WATER TO EXISTING 1-1/2" COLD WATER ABOVE CEILING IN THIS AREA. CONTRACTOR TO FIELD VERIFY EXACT LOCATION, SIZES AND ELEVATIONS PRIOR TO CONSTRUCTION.
 - ② POINT OF CONNECTION 2" VENT TO EXISTING 2" VENT IN THIS AREA. CONTRACTOR TO FIELD VERIFY EXACT LOCATION, SIZES AND LOCATION PRIOR TO CONSTRUCTION.
 - ③ POINT OF CONNECTION 2" WASTE TO EXISTING 4" WASTE BELOW FLOOR IN THIS AREA. CONTRACTOR TO FIELD VERIFY EXACT LOCATION, SIZES AND LOCATION PRIOR TO CONSTRUCTION.
 - ④ 2" WASTE DOWN, 2" VENT UP.
 - ⑤ 3/4" COLD WATER DOWN IN WALL TO SINK.
 - ⑥ PROVIDE INSTANTANEOUS WATER HEATER UNDERCOUNTER. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR MOUNTING AND WATER CONNECTION REQUIREMENTS. REFER TO DETAIL 1/P.O.1

CLIENT

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College Services Building
1 College Drive
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CONTRACTOR

DESIGNER

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CONSULTANTS

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SAN DIEGO, CA 92111
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DEC PROJECT #6175

ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.: 17009

DRAWN BY: DEC

CHECKED BY: MR

SCALE: AS NOTED

DESIGN ITERATION

DSA Submittal 09/22/2017

DSA Resubmittal 12/19/2017

DSA Resubmittal IDENTIFICATION STAMP 2/7/2018

DIVISION OF THE STATE ARCHITECT

APP. NO: 04 - 116526 INCR - 0

AC BL FLS DSH SS DW

DATE 02/09/2018

DATE 2/7/2018

DATE: 12.19.17

SHEET TITLE

PLUMBING FIRST FLOOR PLAN - NEW WORK

SHEET NUMBER

P2.1

PLUMBING FLOOR PLAN - NEW WORK

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

ELECTRICAL LEGEND

CLIENT



Palo Verde Community College District
1 College Drive
Blythe, CA 92225

PROJECT NAME

Project 2
College Services Building
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CONTRACTOR

DESIGNER



CONSULTANTS



EPI JOB #187-53E

REGISTRATION STAMP



ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.: 17009

DRAWN BY: FS

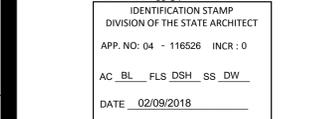
CHECKED BY: LG

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

DESIGN ITERATION 08.31.17

DSA Submittal 09/15/2017

DSA Submittal 2/7/2018



DATE 2/7/2018

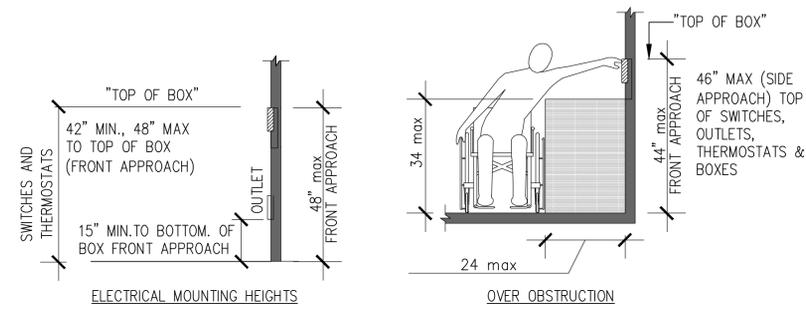
SHEET TITLE

ELECTRICAL COVER SHEET

SHEET NUMBER

E001

ADA MOUNTING REQUIREMENTS



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 REQUIREMENT PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
- MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE OR FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE 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 TO BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM THE ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

"UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER IS TO BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF STATE ARCHITECT."

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

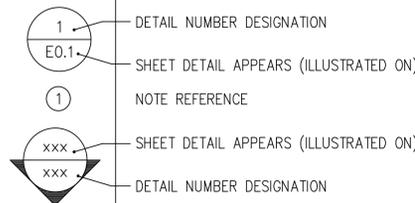
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AD DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.213, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

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 PRE-APPROVED 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.

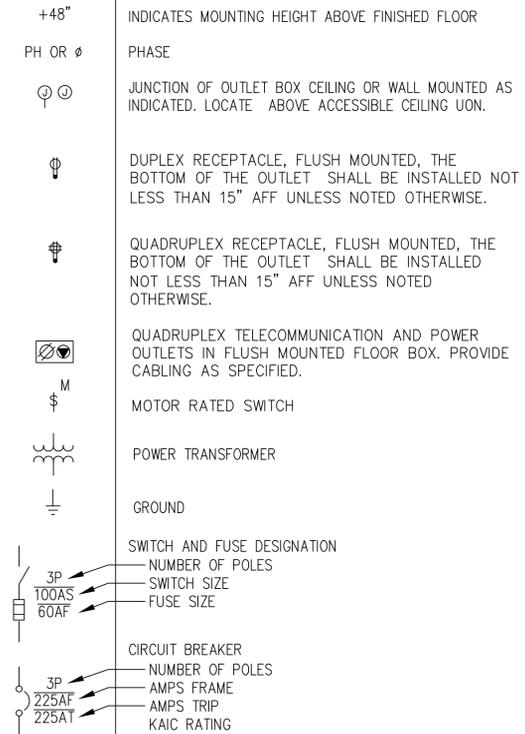
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (E):

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

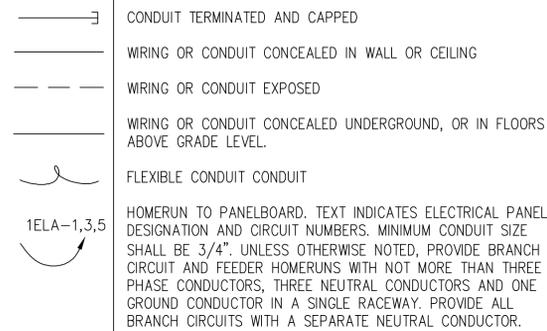
GENERAL



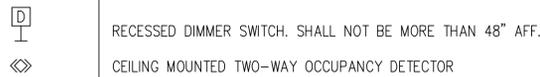
POWER



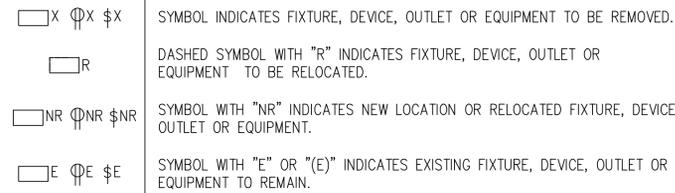
RACEWAYS



LIGHTING

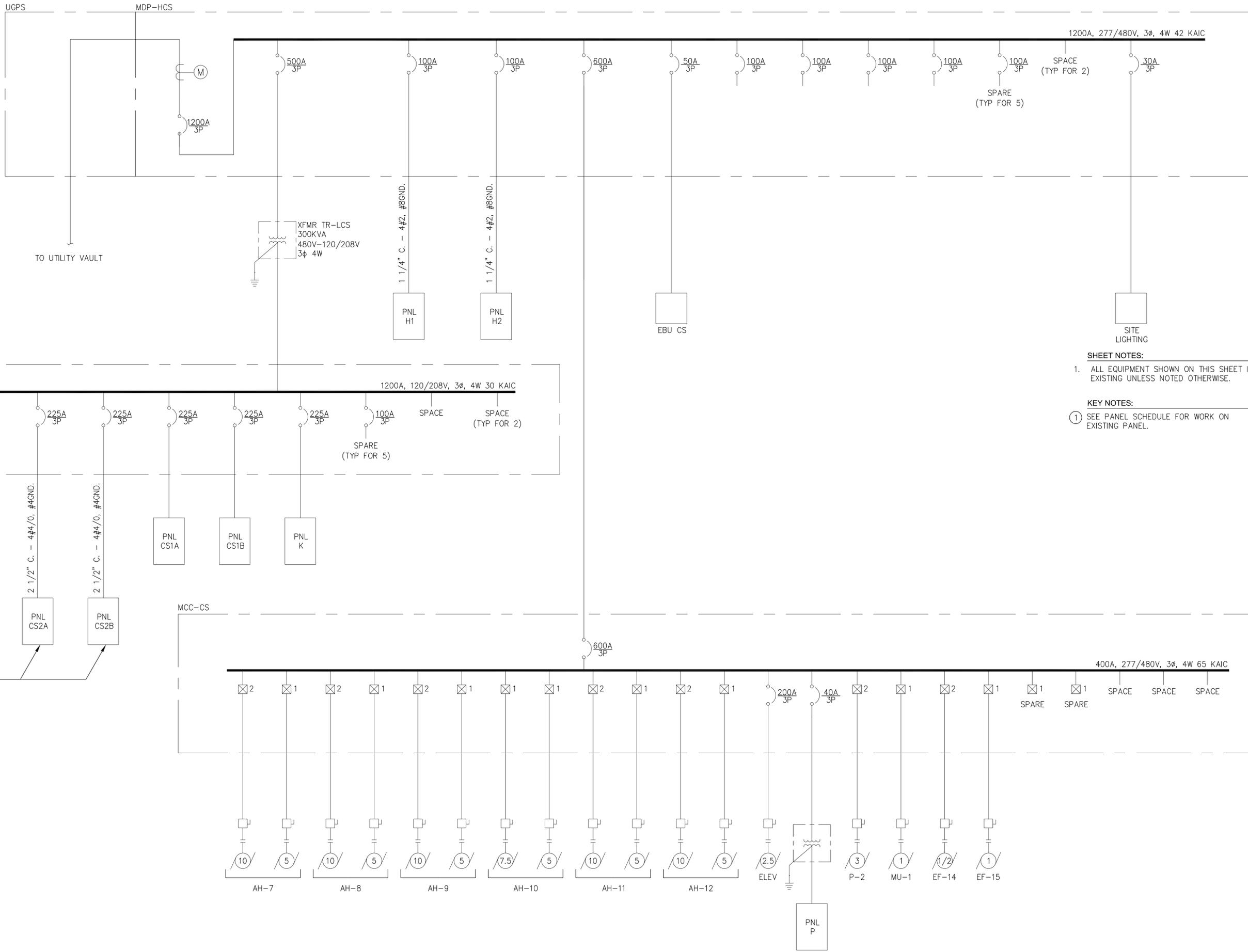


DEMOLITION



ABBREVIATIONS

A	AMPERE	LTG	LIGHTING
ADA	AMERICAN DISABILITIES ACT	LV	LOW VOLTAGE
AC	ALTERNATING CURRENT	MTD	MOUNTED
AF	AMP FRAME	MCA	MINIMUM CIRCUIT AMPS
AFF	ABOVE FINISHED FLOOR	MOCP	MAXIMUM OVERCURRENT PROTECTION DEVICE
AIC	AMPERE INTERRUPTING CAPACITY	OC	2" ABOVE COUNTER BACK SPLASH
AL	ALUMINUM	NTS	NOT TO SCALE
AS	AMP SWITCH	NFPA	NATIONAL FIRE PROTECTION
C	CONDUCTOR,	NEC	NATIONAL ELECTRIC CODE
CKT	CONDUIT CIRCUIT	TYP	TYPICAL
CSFM	CALIF. STATE FIRE MARSHALL	UL	UNDERWRITER'S LABORATORY
CU	COPPER	V	VOLTAGE
E	EXISTING	W	WIRE
ELEC	ELECTRICAL	WP	WEATHERPROOF
FA	FIRE ALARM	W/	WITH
FLUOR	FLUORESCENT	XFMR	TRANSFORMER
GALV	GALVANIZED	PROVIDE	FURNISH, INSTALL, CONNECT AND TEST
GFI	GROUND FAULT INTERRUPTER		
GND, G	GROUND		
HP	HORSEPOWER		
HE	HANDHOLE ELECTRICAL		
HT	HANDHOLE TELECOM		
IWB	INTERACTIVE WHITEBOARD		
KVA	KILOVOLT-AMPERE		
KW	KILOWATT		



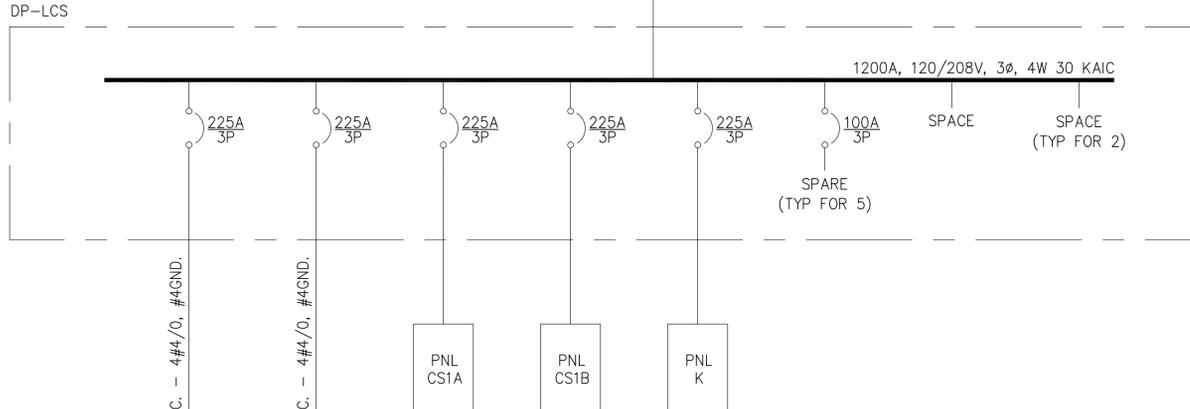
1200A, 277/480V, 3φ, 4W 42 KAIC

PNL H1
1 1/4" C. - 4#2, #8GND.

PNL H2
1 1/4" C. - 4#2, #8GND.

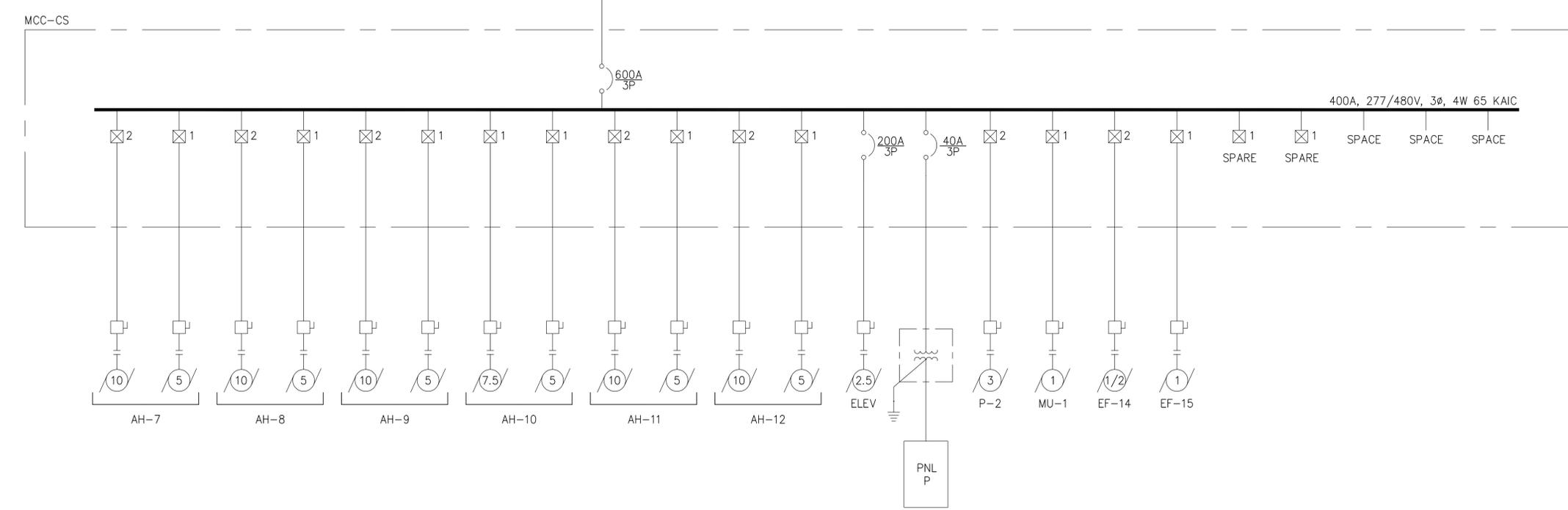
EBU CS

SITE LIGHTING



PNL CS2A
2 1/2" C. - 4#4/O, #4GND.

PNL CS2B
2 1/2" C. - 4#4/O, #4GND.



400A, 277/480V, 3φ, 4W 65 KAIC

PNL P

- SHEET NOTES:**
- ALL EQUIPMENT SHOWN ON THIS SHEET IS EXISTING UNLESS NOTED OTHERWISE.
- KEY NOTES:**
- SEE PANEL SCHEDULE FOR WORK ON EXISTING PANEL.

CLIENT

PALO VERDE COLLEGE
WHERE KNOWLEDGE TAKES ROOT AND OPPORTUNITY GROWS

Palo Verde Community College District
1 College Drive
Blythe, CA 92225

PROJECT NAME

Project 2
College Services Building
1 College Drive
Blythe, CA 92225

CONTRACTOR

DESIGNER

SILLMAN WRIGHT ARCHITECTS
31045 Temecula Parkway Suite 204
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T. 760.489.4432
www.sillmanwright.com

CONSULTANTS

EPI THE ENGINEERING PARTNERS, INC.
CONSULTING ENGINEERS
9565 WAPLES STREET, SUITE 100
SAN DIEGO, CA 92121
(858) 824-1761 FAX (858) 824-1768

EPI JOB #187-53E

REGISTRATION STAMP

ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.: 17009

DRAWN BY: FS

CHECKED BY: LG

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

DESIGN ITERATION 08.31.17

DSA Submittal 09/15/2017

DSA Submittal 2/7/2018

FILE NUMBER: 33-C4

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116526 INCR - 0
AC BL FLS DSH SS DW
DATE 02/09/2018

DATE 2/7/2018

SHEET TITLE

SINGLE LINE DIAGRAM

SHEET NUMBER

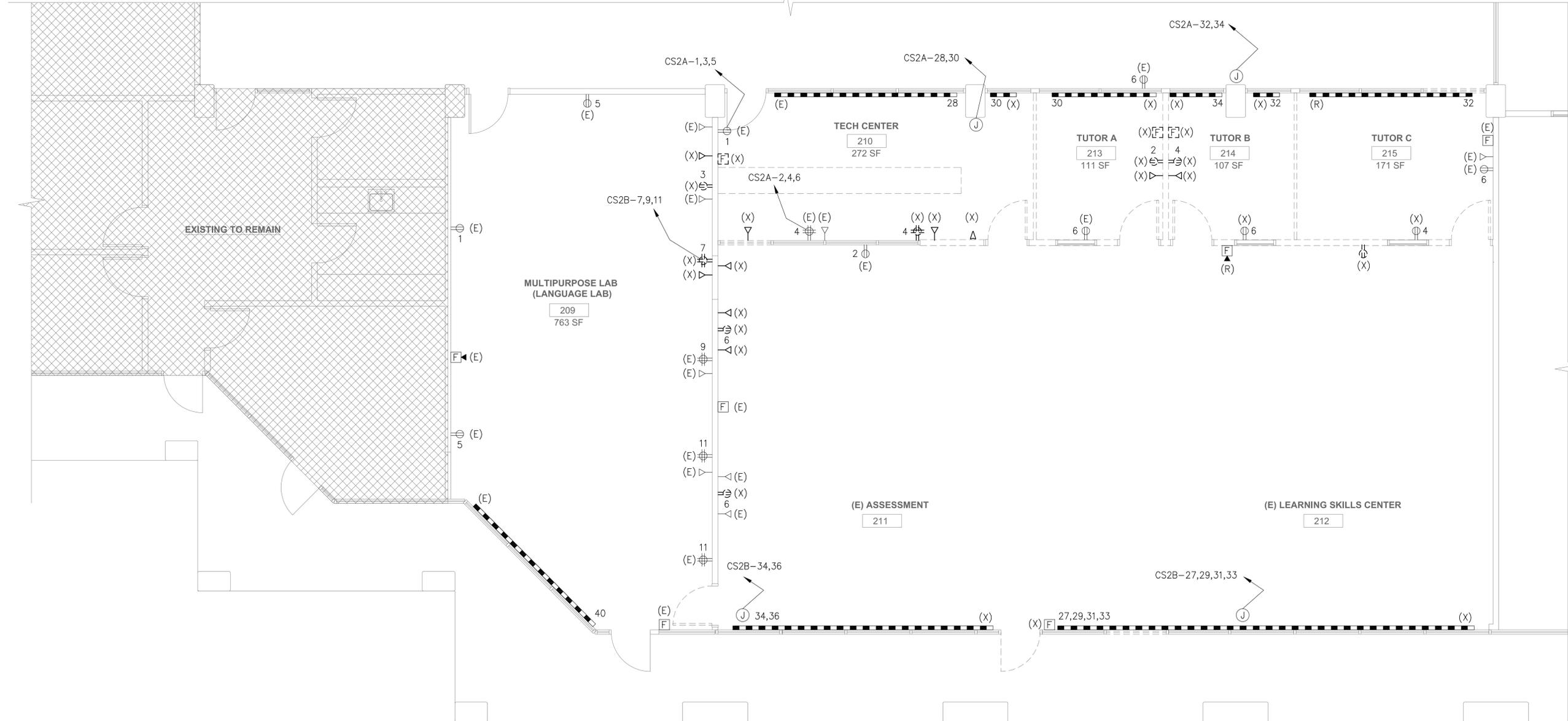
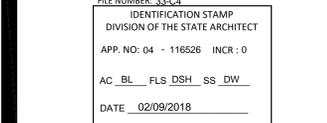
E100

SINGLE LINE DIAGRAM

SCALE: NOT TO SCALE



Mark	Date	Description



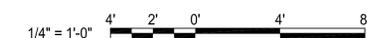
POWER & SIGNAL DEMO PLAN

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

1

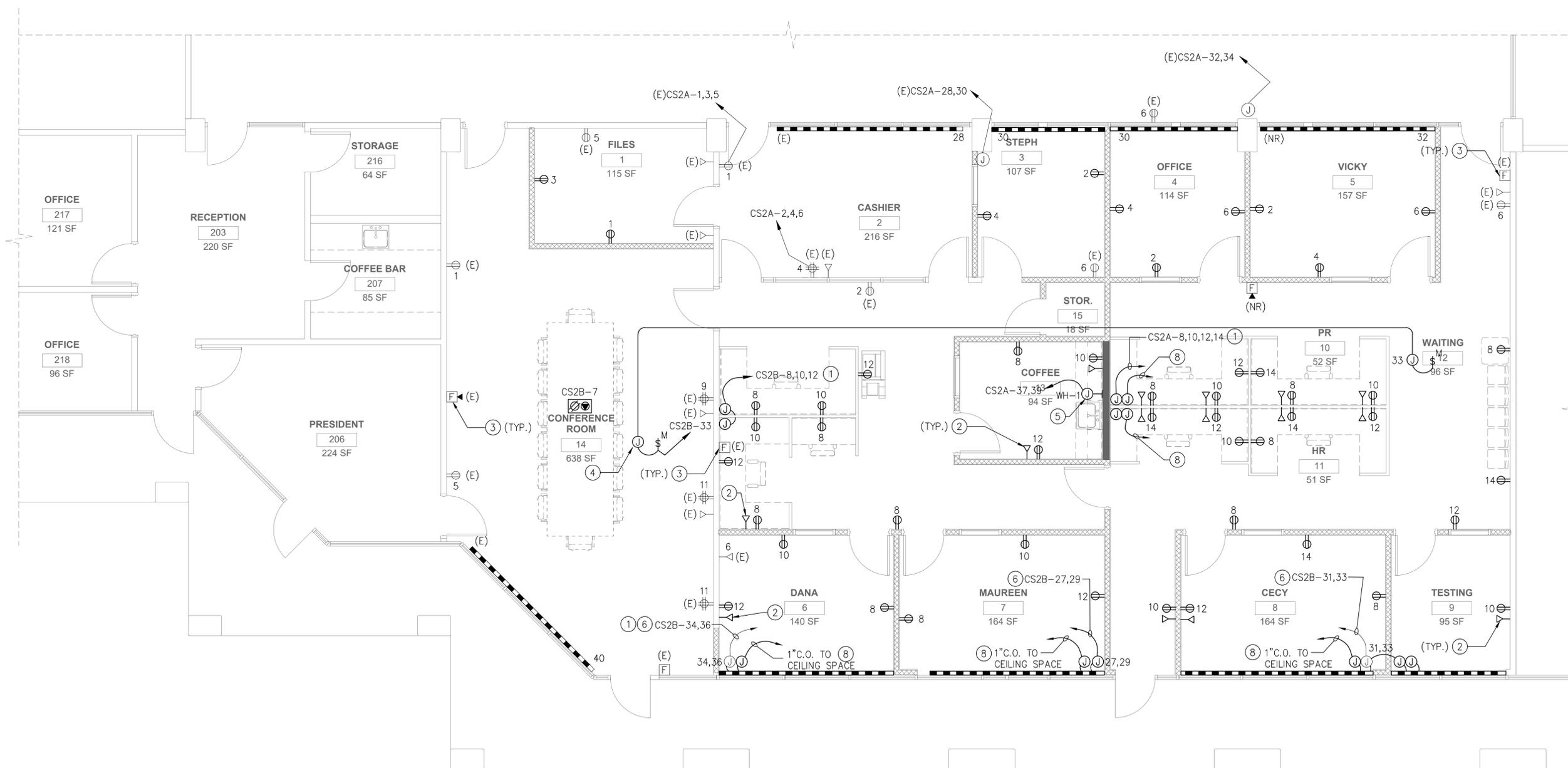
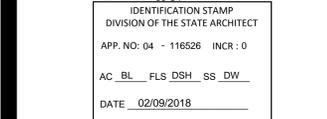
SHEET NOTES:

- THE EXISTING CIRCUIT NUMBERS SHOWN ON THE DRAWINGS ARE BASED ON RECORD DRAWINGS AND FIELD INVESTIGATION. THE CIRCUIT NUMBERS REPRESENT THE BEST INFORMATION AVAILABLE, BUT MAY NOT BE ACCURATE. PRIOR TO STARTING DEMOLITION, THE CONTRACTOR SHALL PERFORM A SURVEY AND RECORD THE EXISTING (VERIFIED) CIRCUITS FOR THE PROJECT. INCORRECT CIRCUIT NUMBERS SHALL BE CORRECTED ON THE AS-BUILT DRAWINGS.
- MAINTAIN ELECTRICAL CONTINUITY OF EXISTING ELECTRICAL SYSTEMS AND DEVICES TO REMAIN.
- PROVIDE NEW CONDUIT AND WIRE TO RE-ROUTE EXISTING RACEWAYS THAT PASS THROUGH PARTITIONS OR CEILINGS TO BE DEMOLISHED.
- REMOVE ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE FOR DEVICES AND EQUIPMENT SCHEDULED FOR DEMOLITION.
- FIRE ALARM DEVICES ARE SHOWN FOR REFERENCE ONLY.





Mark	Date	Description



POWER & SIGNAL NEW WORK PLAN

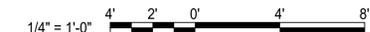
SCALE: 1/4" = 1'-0"

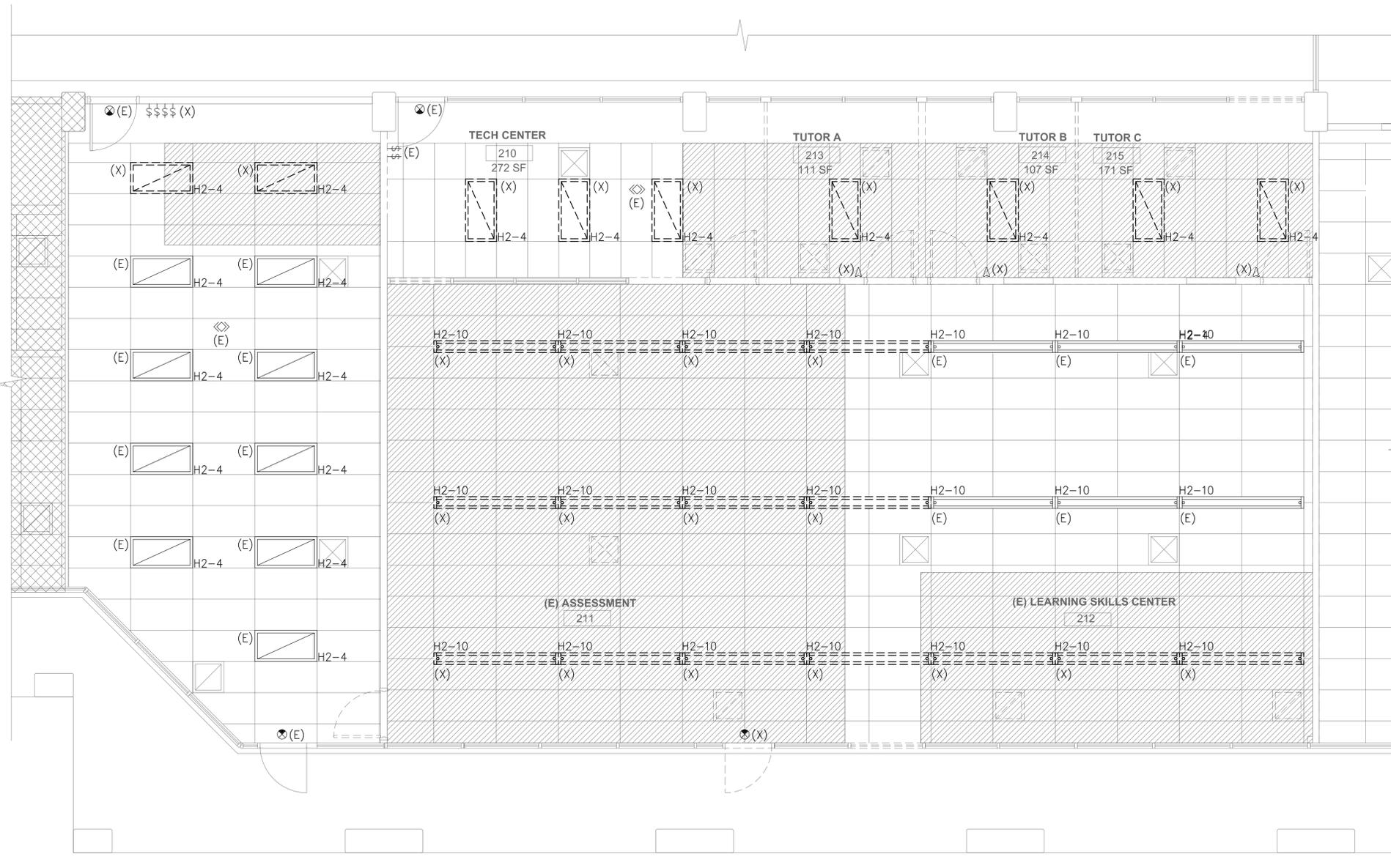
KEY NOTES:

- ① EXTEND EXISTING CIRCUITS TO NEW LOCATION AS REQUIRED.
- ② PROVIDE 3/4" C.O. UP TO CEILING SPACE FOR ALL NEW DATA OUTLETS.
- ③ FIRE ALARM DEVICES SHOWN FOR REFERENCE ONLY. FIRE ALARM WORK WILL BE DONE UNDER SEPARATE CONTRACT.
- ④ PROVIDE 120V CIRCUIT FOR VAV. PROVIDE 3/4" C. - 2#12, #12GND BACK TO SOURCE. COORDINATE EXACT LOCATION WITH MECHANICAL.
- ⑤ PROVIDE HARDWIRED CONNECTION FOR WATER HEATER. 1/2"C-2#10,#10GND
- ⑥ PROVIDE 3/4"C. - (2)[2 #10, 1 #10 GND.].
- ⑦ PROVIDE NEW DUAL CHANNEL RACEWAY FOR POWER/DATA MATCH EXISTING TO REMAIN.

KEY NOTES:

- ⑧ PROVIDE 1"C.O. UP TO CEILING SPACE FOR DATA OUTLETS IN NEW PLUGMOLD.



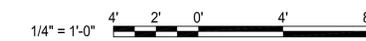


LIGHTING DEMO PLAN

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

1

- SHEET NOTES:**
1. THE EXISTING CIRCUIT NUMBERS SHOWN ON THE DRAWINGS ARE BASED ON RECORD DRAWINGS AND FIELD INVESTIGATION. THE CIRCUIT NUMBERS REPRESENT THE BEST INFORMATION AVAILABLE, BUT MAY NOT BE ACCURATE. PRIOR TO STARTING DEMOLITION, THE CONTRACTOR SHALL PERFORM A SURVEY AND RECORD THE EXISTING (VERIFIED) CIRCUITS FOR THE PROJECT. INCORRECT CIRCUIT NUMBERS SHALL BE CORRECTED ON THE AS-BUILT DRAWINGS.
 2. MAINTAIN ELECTRICAL CONTINUITY OF EXISTING ELECTRICAL SYSTEMS AND DEVICES TO REMAIN.
 3. PROVIDE NEW CONDUIT AND WIRE TO RE-ROUTE EXISTING RACEWAYS THAT PASS THROUGH PARTITIONS OR CEILING TO BE DEMOLISHED.
 4. REMOVE ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE FOR DEVICES AND EQUIPMENT SCHEDULED FOR DEMOLITION.



CLIENT



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Blythe, CA 92225

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CONTRACTOR

DESIGNER



CONSULTANTS



EPI JOB #187-53E

REGISTRATION STAMP



ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.: 17009

DRAWN BY: FS

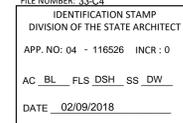
CHECKED BY: LG

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

DESIGN ITERATION 08.31.17

DSA Submittal 09/15/2017

DSA Submittal FILE NUMBER: 33-C4 2/7/2018



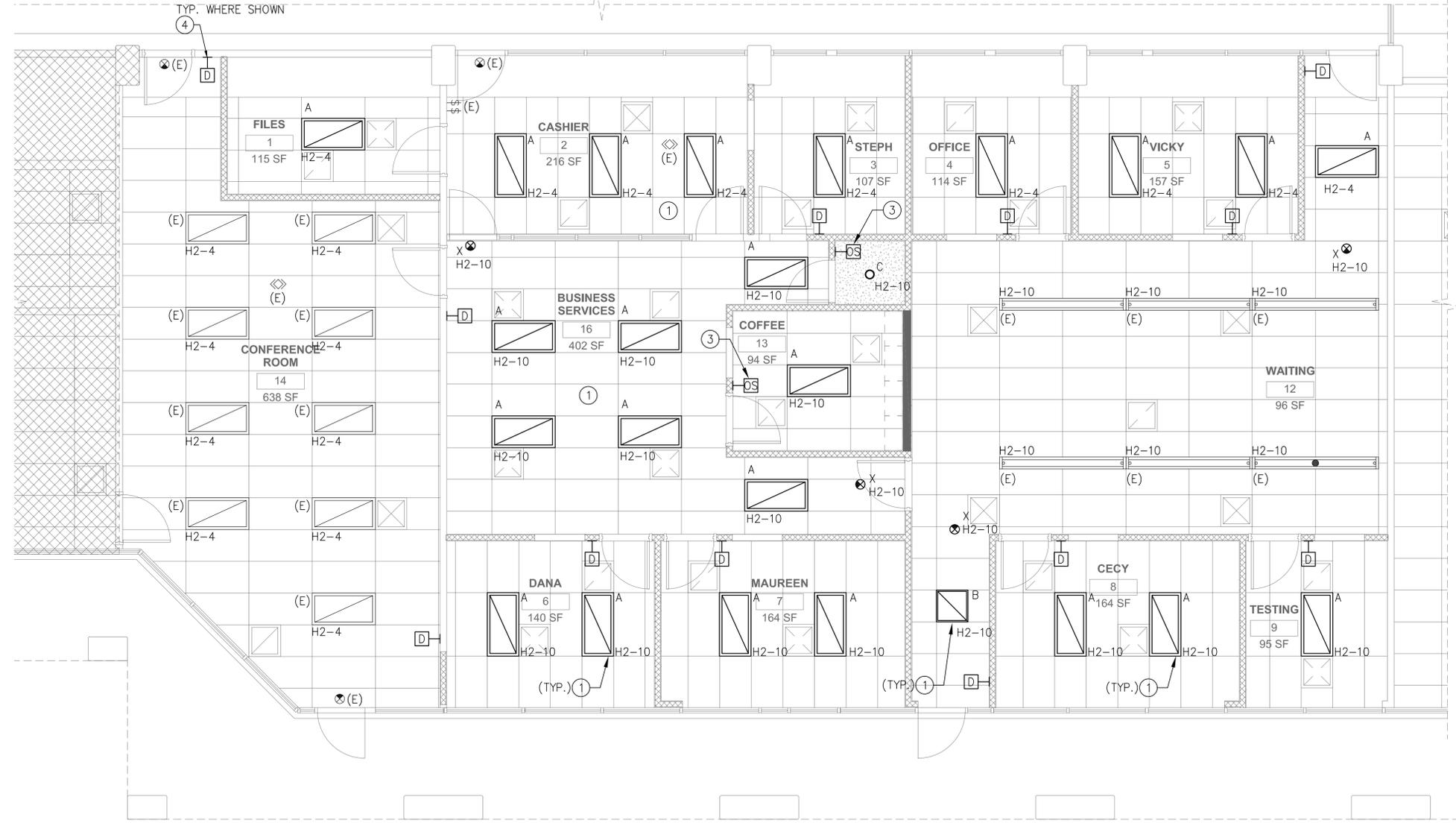
DATE 2/7/2018

SHEET TITLE

LIGHTING DEMO PLAN

SHEET NUMBER

E202

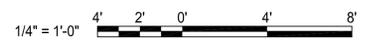


LIGHTING NEW WORK PLAN

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

1

- KEY NOTES:**
- ① EXTEND EXISTING CIRCUITS TO NEW LOCATION AS REQUIRED.
 - ② VERIFY CIRCUIT NUMBERS PRIOR TO INSTALLATION. CIRCUIT NUMBERS ARE TAKEN FROM AVAILABLE AS-BUILT INFORMATION. CONNECT AS NECESSARY.
 - ③ PROVIDE NEW OCCUPANCY SENSOR SWITCH.
 - ④ PROVIDE NEW DIMMER SWITCH.



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EPI JOB #187-53E

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DSA Submittal 09/15/2017

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IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116526 INCR - 0
AC BL FLS DSH SS DW
DATE 02/09/2018

DATE 2/7/2018

SHEET TITLE

LIGHTING NEW WORK PLAN

SHEET NUMBER

E203

LUMINAIRE SCHEDULE									
TYPE	SYMBOL	WATT	VOLT	LAMP TYPE	DESCRIPTION	BALLAST TYPE	MANUFACTURER AND CATALOG NUMBER		MOUNTING
A		35	277	LED 3000 LUMENS, 4000K, 82CRI	2'x4' RECESSED LED DIMMING TROFFER, DIRECT/INDIRECT, ACRYLIC LINEAR PRISMATIC LENS, STEEL HOUSING WITH WHITE ENAMEL FINISH, 0-10V DIMMING, EMBEDDED OCCUPANCY SENSOR, UL LISTED.	0-10V DIMMING DRIVER	LITHONIA	2VTL4-33L-ADP-MVOLT-EZ1-LP840-N100	RECESSED (T-GRID)
B		40	277	LED 2000 LUMENS, 4000K, 82CRI	2'x2' RECESSED LED DIMMING TROFFER, DIRECT/INDIRECT, LINEAR PRISMATIC LENS, STEEL HOUSING WITH WHITE ENAMEL FINISH, 0-10V DIMMING, EMBEDDED CONTROLS, UL LISTED	0-10V DIMMING DRIVER	LITHONIA	2VTL2-20L-ADP-EZ1-LP850-WH	RECESSED (T-GRID)
C		18.5	277	LED 1500 LUMENS, 5000K, 82 CRI	6" LED DOWNLIGHT, 0-10V DIMMING, EMBEDDED CONTROLS, UL LISTED	0-10V DIMMING DRIVER	GOTHAM	EVO-50/1500-6WR-VD-LS-MVOLT	RECESSED (HARDLID)
X		0.7	277	LED	LED EXIT LIGHT FIXTURE WITH BRUSHED ALUMINUM HOUSING, RED LETTERS, NICKEL CADMIUM BATTERY (90 MN) BACK-UP, UL LISTED	LED DRIVER	LITHONIA	EDGR 2 R EL	SURFACE / SUSPENDED

LUMINAIRE SCHEDULE

SCALE: NO SCALE

1

PANEL CS2A		LOCATION: ELEC RM 238				Bus Rating: 225A				208Y/120V, 3ø, 4W				
MAIN: MLO						MOUNTING: SURFACE								
LOCATION	VOLTAMPS			CR	BRK	A	B	C	BRK	CR	VOLTAMPS			LOCATION
	øA	øB	øC								øA	øB	øC	
RECEPTION, LAB	1260			1	20	*				2	1260			LEARNING CENTER
RECEPTION, LAB		1260		3	20		*			4	1260			LEARNING CENTER
RECEPTION, LAB			1260	5	20			*		6		1080		LEARNING CENTER*
GRP STDY, LRNG. CNTR.	900			7	20	*				8	1440			LEARNING CENTER
GRP STDY, LRNG. CNTR.		900		9	20		*			10	1440			LEARNING CENTER
COMPUTER WORK AREA			1440	11	20			*		12		1440		LEARNING CENTER
COMPUTER WORK AREA	1440			13	20	*				14	1440			LEARNING CENTER
COMPUTER WORK AREA		1440		15	20		*			16	1260			LIBRARY, COMP. CNTR.
COMPUTER WORK AREA			1440	17	20			*		18	1260			LIBRARY, COMP. CNTR.
LEARNING LAB, TOILETS	1260			19	20	*				20	1260			LIBRARY, COMP. CNTR.
LEARNING LAB, TOILETS		1260		21	20		*			22	1260			LIBRARY, OFFICES
LEARNING LAB, TOILETS			1260	23	20			*		24	1260			LIBRARY, OFFICES
LIBRARY	900			25	20	*				26	1260			LIBRARY, OFFICES
LIBRARY		720		27	20		*			28	900			TUTOR
FSDS			500	29	20		*			30		90		TECH CENTER
READING AREA	360			31	20	*				32	900			TUTOR
READING AREA		350		33	20		*			34	900			TUTOR
READING AREA			360	35	20			*		36		700		AUTO DOOR
**IWH-1	2080			37	30	*				38	700			AUTO DOOR
-		2080		39	2P	*				40				SPARE
SPARE				41	20			*		42				SPARE

øA = 16460	øB = 15030	øC = 12090
TOTAL CONNECTED VA = 44 KVA	*REUSE EXISTING BREAKER FOR LOAD ADDED/REMOVED	
+ 25% LCL = KVA	**REPLACE EXISTING BREAKER WITH NEW AS INDICATED	
TOTAL 44 KVA		
CONNECTED LOAD = 121 A		
MINIMUM FEEDER SIZE = 121 A		

PANEL SCHEDULE - CS2A

SCALE: NO SCALE

2

LOAD SUMMARY AT (E) PANEL "CS2A"	
EXISTING CONNECTED LOAD	38.5 KVA
EXISTING LOAD REMOVED:	0.2 KVA
NEW LOAD ADDED:	4.4 KVA
TOTAL LOAD:	42.7 KVA
ALLOWABLE LOAD (225 A x 208V 3ø):	81.0 KVA

ADDED LOAD DOES NOT REQUIRE ANY MODIFICATION TO "CS2A" FEEDER OR UPSTREAM OVERCURRENT PROTECTIVE DEVICE.

PANEL CS2B		LOCATION: ELEC RM 238				Bus Rating: 225A				208Y/120V, 3ø, 4W				
MAIN: MLO						MOUNTING: SURFACE								
LOCATION	VOLTAMPS			CR	BRK	A	B	C	BRK	CR	VOLTAMPS			LOCATION
	øA	øB	øC								øA	øB	øC	
MULTI-LAB	720			1	20	*				2	720			MULTI-LAB
MULTI-LAB		720		3	20		*			4		720		MULTI-LAB
MULTI-LAB			720	5	20			*		6		720		MULTI-LAB
*MULTI-LAB	900			7	20	*				8	720			MULTI-LAB
MULTI-LAB		720		9	20		*			10		720		MULTI-LAB
MULTI-LAB			900	11	20			*		12		720		MULTI-LAB
MULTI-LAB	720			13	20	*				14	540			STUDY A
MULTI-LAB		720		15	20		*			16		540		STUDY B
MULTI-LAB			720	17	20			*		18		1080		GROUP STUDY
READING AREA	1530			19	20	*				20	720			GROUP STUDY
READING AREA		1530		21	20		*			22	1500			COMPUTER AREA
READING AREA			1530	23	20			*		24		1500		COMPUTER AREA
READING AREA	1530			25	20	*				26	1500			COMPUTER AREA
*PR/HR		1080		27	20		*			28	1500			LIBRARY
*WAITING/COPY			1080	29	20		*			30		1500		LIBRARY
*BREAK	720			31	20	*				32	1500			LIBRARY
*VAV		100		33	20		*			34	1080			MAUREEN/DANA*
ADMINISTRATION			900	35	20			*		36		1080		TESTING/CECY*
ADMINISTRATION	900			37	20	*				38	720			MULTI-PURPOSE
ADMINISTRATION		900		39	20		*			40		720		PRESIDENT
SPARE				41	20			*		42				SPARE

øA = 13440	øB = 12550	øC = 12450
TOTAL CONNECTED VA = 38 KVA	*REUSE EXISTING BREAKER FOR LOAD ADDED/REMOVED	
+ 25% LCL = KVA		
TOTAL 38 KVA		
CONNECTED LOAD = 107 A		
MINIMUM FEEDER SIZE = 107 A		

PANEL SCHEDULE - CS2B

SCALE: NO SCALE

3

LOAD SUMMARY AT (E) PANEL "CS2B"	
EXISTING CONNECTED LOAD	40.7 KVA
EXISTING LOAD REMOVED:	7.4 KVA
NEW LOAD ADDED:	5.3 KVA
TOTAL LOAD:	38.6 KVA
ALLOWABLE LOAD (225 A x 208V 3ø):	81.0 KVA

ADDED LOAD DOES NOT REQUIRE ANY MODIFICATION TO "CS2B" FEEDER OR UPSTREAM OVERCURRENT PROTECTIVE DEVICE.

CLIENT



Palo Verde Community College District
1 College Drive
Blythe, CA 92225

PROJECT NAME

Project 2
College Services Building
1 College Drive
Blythe, CA 92225

CONTRACTOR

DESIGNER



CONSULTANTS



EPI JOB #187-53E

REGISTRATION STAMP



ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.: 17009

DRAWN BY: FS

CHECKED BY: LG

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

DESIGN ITERATION 08.31.17

DSA Submittal 09/15/2017

DSA Submittal 2/7/2018



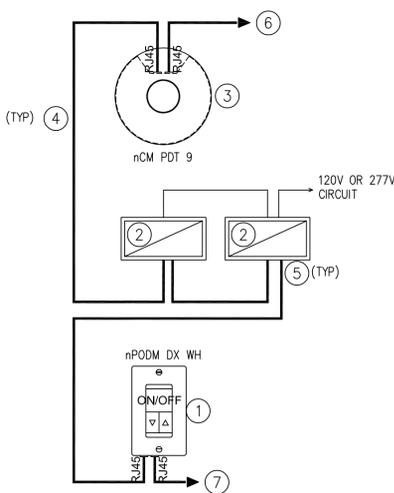
DATE 2/7/2018

SHEET TITLE

PANEL & LUMINAIRE SCHEDULES

SHEET NUMBER

E300



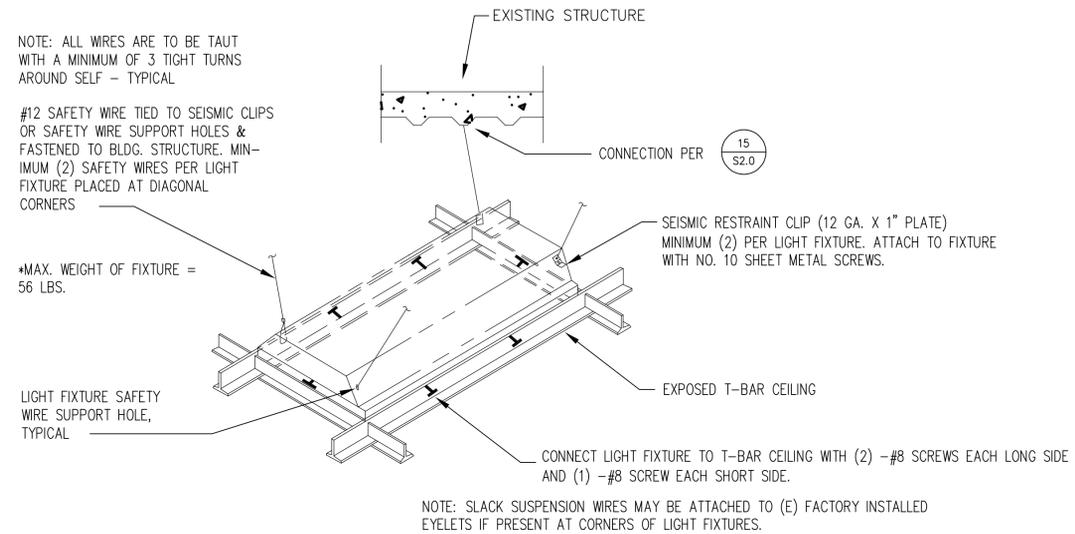
- KEY NOTES:**
- ① SWITCH WITH ON/OFF RAISE/LOWER per section 130.1(A)-TITLE 24
 - ② LIGHT FIXTURE WITH 0-10V DIMMING EMBEDDED CONTROL per section 130.1(B)-TITLE 24
 - ③ OCCUPANCY SENSOR per section 130.1(C)-TITLE 24.
 - ④ CAT 5 CABLE (TYPICAL).
 - ⑤ SEE FLOOR PLAN FOR QUANTITY.
 - ⑥ TO NEXT OCCUPANCY SENSOR (IF REQUIRED).
 - ⑦ TO NEXT SWITCH (IF REQUIRED).

BILL OF MATERIAL		
QTY	PRODUCT #	DESCRIPTION
⑤	nLIGHT # nPODM DX WH	1-CHANNEL WALL SWITCH, LOW VOLTAGE; ON / OFF / RAISE / LOWER CONTROL
	nLIGHT# nPP16 PL T24	16 AMP RELAY PACK FOR PLUG LOAD CONTROL; CHASE NIPPLE MOUNTING
⑤	nLIGHT # nCMR PDT	OCCUPANCY SENSOR - STANDARD RANGE 360' SENSOR - CEILING MOUNTED, LOW VOLTAGE, DUAL TECHNOLOGY (PDT).

SINGLE CHANNEL CONTROL - CEILING OR WALL OCCUPANCY SENSOR

SCALE: NO SCALE

2



LIGHT FIXTURE SEISMIC RESTRAINT DETAIL

SCALE: NO SCALE

1

H2	LOCATION: 2ND FLOOR										BUS RATING: 100A			480Y/277V, 3ø, 4W		
	MAIN: MLO										MOUNTING: SURFACE					
LOCATION	VOLTAMPS						VOLTAMPS						LOCATION			
	øA	øB	øC	CR	BRK	A	B	C	BRK	CR	øA	øB		øC		
LIGHTING	3030			1	20	*				20	2	1816			LIGHTING	
LIGHTING		2770		3	20		*			20	4		1888		LIGHTING	
LIGHTING			3430	5	20			*		20	6			3478	LIGHTING	
LIGHTING	3145			7	20	*				20	8	2368			LIGHTING	
LIGHTING		476		9	20	*				20	10		2909		LIGHTING*	
LIGHTING			306	11	20			*		20	12				PENTHOUSE LIGHTS	
SPACE				13		*					14				PENTHOUSE LIGHTS	
SPACE				15		*					16				SPACE	
SPACE				17			*				18				SPACE	
SPACE				19		*					20				SPACE	
SPACE				21		*					22				SPACE	
SPACE				23		*		*			24				SPACE	
SPACE				25		*					26				SPACE	
SPACE				27		*					28				SPACE	
SPACE				29		*		*			30				SPACE	
SPACE				31		*					32				SPACE	
SPACE				33		*					34				SPACE	
SPACE				35		*		*			36				SPACE	
SPACE				37		*					38				SPACE	
SPACE				39		*					40				SPACE	
SPACE				41		*		*			42				SPACE	

øA = 10359	øB = 8043	øC = 7214
TOTAL CONNECTED VA = 26 KVA	*REUSE EXISTING BREAKER FOR LOAD ADDED/REMOVED	
+ 25% LCL = 6 KVA		
TOTAL = 32 KVA		
CONNECTED LOAD = 31 A		
MINIMUM FEEDER SIZE = 39 A		

PANEL SCHEDULE - H2

SCALE: NO SCALE

3

LOAD SUMMARY AT (E) PANEL "H2"	
EXISTING CONNECTED LOAD	33.0 KVA
EXISTING LOAD REMOVED:	1.0 KVA
NEW LOAD ADDED:	0.3 KVA
TOTAL LOAD:	32.3 KVA
ALLOWABLE LOAD (100 A x 480V 3ø):	83.1 KVA

ADDED LOAD DOES NOT REQUIRE ANY MODIFICATION TO "H2" FEEDER OR UPSTREAM OVERCURRENT PROTECTIVE DEVICE.

CLIENT



Palo Verde Community College District
1 College Drive
Blythe, CA 92225

PROJECT NAME

Project 2
College Services Building
1 College Drive
Blythe, CA 92225

CONTRACTOR

DESIGNER



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www.sillmanwright.com

CONSULTANTS



EPI JOB #187-53E

REGISTRATION STAMP



ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.: 17009

DRAWN BY: FS

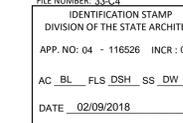
CHECKED BY: LG

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

DESIGN ITERATION 08.31.17

DSA Submittal 09/15/2017

DSA Submittal 2/7/2018



DATE 2/7/2018

SHEET TITLE

PANEL SCHEUDLE &
ELECTRICAL
DETAILS

SHEET NUMBER

E301

STATE OF CALIFORNIA
INDOOR LIGHTING
 CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION
 CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E
 Indoor Lighting (Page 1 of 6)
 Project Name: College Services Building Date Prepared: 9/12/2017

A. General Information
 Climate Zone: 15 Conditioned Floor Area: 1,843
 Unconditioned Floor Area: 0
 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: 1 College Drive

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
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-03-E	Indoor Lighting Power Allowance
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-04-E	Tailored Method Worksheets
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets
<input type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-06-E	Indoor Lighting Existing Conditions

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
 CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION
 CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E
 Indoor Lighting (Page 3 of 6)
 Project Name: College Services Building Date Prepared: 9/12/2017

E. Declaration of Required Certificates of Acceptance
 Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Compliance Document/Title	Field Inspector
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	<input type="checkbox"/> Field Inspector
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	<input type="checkbox"/> Field Inspector
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	<input type="checkbox"/> Field Inspector
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	<input type="checkbox"/> Field Inspector

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
 CONDITIONED SPACE UNCONDITIONED SPACE

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.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
 CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION
 CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E
 Indoor Lighting (Page 2 of 6)
 Project Name: College Services Building Date Prepared: 9/12/2017

C. Summary of Allowed Lighting Power
 Conditioned and Unconditioned space Lighting must not be combined for compliance

	Indoor Lighting Power for Conditioned Spaces		Indoor Lighting Power for Unconditioned Spaces	
	Installed Lighting	Watts	Installed Lighting	Watts
01	NRCC-LTI-01-E, Table H, page 5	+ 789	NRCC-LTI-01-E, Table H, page 5	+ 0
02	Portable Only for Offices NRCC-LTI-01-E, Table G, page 4	+		
03	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	- 147	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	- 0
04	Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3)	= 641	Adjusted Installed Lighting Power (row 1 minus row 3)	= 0
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	1,843	Allowed Lighting Power Unconditioned NRCC-LTI-03-E, page 1	0
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			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	

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	Compliance Document/Title	Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCL-LTI-01-E - Must be submitted for all buildings	<input type="checkbox"/> Field Inspector
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCL-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	<input type="checkbox"/> Field Inspector
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCL-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.	<input type="checkbox"/> Field Inspector
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCL-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.	<input type="checkbox"/> Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCL-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	<input type="checkbox"/> Field Inspector
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCL-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	<input type="checkbox"/> Field Inspector

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
 CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION
 CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E
 Indoor Lighting (Page 4 of 6)
 Project Name: College Services Building Date Prepared: 9/12/2017

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/ft ²						Office Location	Field Inspector		
	1	2	3	4	5	6		7	8	9
Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted direct/indirect)	Watts per Luminaire	Number of Luminaires	Installed portable luminaire watts in this office (G02 x G03)	Square feet of this office (G02 x G03)	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
									<input type="checkbox"/>	<input type="checkbox"/>
									<input type="checkbox"/>	<input type="checkbox"/>
									<input type="checkbox"/>	<input type="checkbox"/>
									<input type="checkbox"/>	<input type="checkbox"/>
									<input type="checkbox"/>	<input type="checkbox"/>
Total installed portable luminaire watts that are greater than 0.3 W/ft ² per office:									Enter sum total of all pages into NRCC-LTI-01-E, Page 1	

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

CLIENT



Palo Verde Community College District
 1 College Drive
 Blythe, CA 92225

PROJECT NAME

Project 2
 College Services Building
 1 College Drive
 Blythe, CA 92225

CONTRACTOR

DESIGNER



CONSULTANTS



EPI JOB #187-53E

REGISTRATION STAMP



ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.: 17009

DRAWN BY: FS

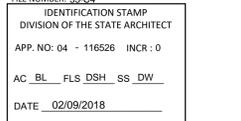
CHECKED BY: LG

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

DESIGN ITERATION 08.31.17

DSA Submittal 09/15/2017

DSA Submittal 2/7/2018



DATE 2/7/2018

SHEET TITLE

TITLE 24

SHEET NUMBER

E400

STATE OF CALIFORNIA
INDOOR LIGHTING
 CEC-NRCC-LTI-01-E (Revised 04/16)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Indoor Lighting
 Project Name: College Services Building Date Prepared: 9/12/2017
 NRCC-LTI-01-E
 (Page 5 of 6)

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

01 Name or Item Tag	02 Luminaire Schedule Complete Luminaire Description (i.e., 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	03 Watts per Luminaire	04 Installed Watts		05 Number of Luminaires	06 Total Installed Watts in this area (NOS x NOS)	07 Location Primary Function area in which these luminaires are installed	08 Field Inspector	
			How wattage was determined	CEC Default from NAB				Pass	Fail
A	Type A - 2x4 Recessed LED	35.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	22	770	Office <= 250 sqft	<input type="checkbox"/>	<input type="checkbox"/>
C	6" DIA. LED	18.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	19	Office <= 250 sqft	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
INSTALLED WATTS PAGE TOTAL:						789	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 - LIGHTING CONTROLS
 CEC-NRCC-LTI-02-E (Revised 01/16)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Indoor Lighting - Lighting Controls
 Project Name: College Services Building Date Prepared: 9/12/2017
 NRCC-LTI-02-E
 (Page 1 of 3)

A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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).
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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).
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	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.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 130.1(a).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	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.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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).
<input type="checkbox"/>	<input checked="" type="checkbox"/>	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylight zones are shown on the plans.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	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
 CEC-NRCC-LTI-01-E (Revised 04/16)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Indoor Lighting
 Project Name: College Services Building Date Prepared: 9/12/2017
 NRCC-LTI-01-E
 (Page 6 of 6)

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: _____ Signature: 

Company: The Engineering Partners, Inc. Signature Date: 9/12/2017
 Address: _____ CEA Certification Identification (if applicable): _____
 City/State/Zip: _____ Phone: _____

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: Matt Long Responsible Designer Signature: 

Company: The Engineering Partners, Inc. Date Signed: 9/12/17
 Address: 9565 Waples St., Suite 100 License: E13441
 City/State/Zip: San Diego, CA 92121 Phone: (858) 824-1761

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING - LIGHTING CONTROLS
 CEC-NRCC-LTI-02-E (Revised 01/16)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Indoor Lighting - Lighting Controls
 Project Name: College Services Building Date Prepared: 9/12/2017
 NRCC-LTI-02-E
 (Page 2 of 3)

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
 CONDITIONED SPACES UNCONDITIONED SPACES

B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

01 Location in Building	02 Type/Description of Lighting Control (i.e., occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	03 # of Units	Standards Complying With ¹ (✓ all that apply, or enter 'E' if Exempted)							11 Watts of Controlled Lighting	12 PAF	13 Control Credit (K x L)	14 ✓ If Acceptance Test Required	15 Field Inspector		
			04 §130.1(a)	05 §130.0(b)	06 §130.1(c)	07 §130.1(d)	08 §130.1(e)	09 §140.6(a)2	10 §140.6(d)						Pass	Fail
Maureen	Daylight - Dimming/Off		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	70	0.10	7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
DANA	Daylight - Dimming/Off		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	70	0.10	7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Testing	Daylight - Dimming/Off		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	35	0.10	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Coccy	Daylight - Dimming/Off		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	70	0.10	7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
COFFEE RM	Occ Sensor - <= 125 sqft		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	35	0.40	14	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
BUSINESS SERVICES	Occ Sensor - <= 500 sqft		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	210	0.20	42	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Control Credit PAGE TOTAL (Sum of Column 13):												81				
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):												147				

Enter Control Credit total into NRCC-LTI-01-E; Page 1.

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(d) = 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

CLIENT



Palo Verde Community College District
 1 College Drive
 Blythe, CA 92225

PROJECT NAME

Project 2
 College Services Building
 1 College Drive
 Blythe, CA 92225

CONTRACTOR

DESIGNER



CONSULTANTS



EPI JOB #187-53E

REGISTRATION STAMP



ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.: 17009

DRAWN BY: FS

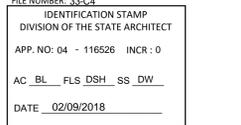
CHECKED BY: LG

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

DESIGN ITERATION 08.31.17

DSA Submittal 09/15/2017

DSA Submittal 2/7/2018



DATE 2/7/2018

SHEET TITLE

TITLE 24

SHEET NUMBER

E401

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 4 of 4)
 Project Name: College Services Building Date Prepared: 9/12/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Company: The Engineering Partners, Inc.	Signature Date: 9/12/2017
Address:	CEA Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT
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 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: Matt Long	Responsible Designer Signature:
Company: The Engineering Partners, Inc.	Date Signed: 9/12/17
Address: 9565 Waples St., Suite 100	License: E13441
City/State/Zip: San Diego, CA 92121	Phone: (858) 824-1761

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

CLIENT



Palo Verde Community College District
 1 College Drive
 Blythe, CA 92225

PROJECT NAME

Project 2
 College Services Building
 1 College Drive
 Blythe, CA 92225

CONTRACTOR

DESIGNER



CONSULTANTS



EPI JOB #187-53E

REGISTRATION STAMP



ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.: 17009

DRAWN BY: FS

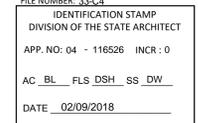
CHECKED BY: LG

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

DESIGN ITERATION 08.31.17

DSA Submittal 09/15/2017

DSA Submittal FILE NUMBER: 33-C4 2/7/2018



DATE 2/7/2018

SHEET TITLE

TITLE 24

SHEET NUMBER

E403

PVCC - PROJECT 2

FIRE SPRINKLER SYSTEM

CLIENT



Palo Verde Community College District
1 College Drive
Blythe, CA 92225

PROJECT NAME

Project 2
College Services Building
1 College Drive
Blythe, CA 92225

CONTRACTOR

DESIGNER



CONSULTANTS

REGISTRATION STAMP



ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.:

DRAWN BY:

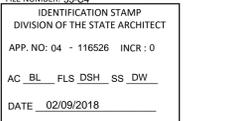
CHECKED BY:

SCALE:

DESIGN ITERATION

DSA Submittal 10/06/2017

DSA Submittal 2/7/2018



DATE 2/7/2018

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

FP-1.0

FIRE LEGEND		
SYMBOL	ABBR	DESCRIPTION
---		NEW PIPING
- - - -		EXISTING PIPING
		EXISTING PIPING TO BE REMOVED
⊥		PIPE HANGER LOCATION
⊥		PIPE HANGER RESTRAINT
⊥		FLANGED CONNECTION
⊥		"RIGID" GRV COUPLING
⊥		"FLEXIBLE" GRV COUPLING
⊥		SCREWED CAP
⊥		FIRE HYDRANT
⊥		HANGER TYPE AND LENGTH
⊥		SCREWED PLUG
⊥	2-WAY	2-WAY SEISMIC BRACE
⊥	4-WAY	4-WAY SEISMIC BRACE
⊥	FDC	FIRE DEPT. CONN.
⊥	TB	UNDERGROUND THRUST BLOCK
⊥	RS	FIRE SPRINKLER RISER
⊥		FIRE ALARM BELL
⊥		TAMPER SWITCH
⊥		KEY VALVE
⊥		PIPING ELEVATION
⊥		HYDRAULIC REF. POINT
⊥		BRANCH LINE NUMBER
⊥		WELDED BRANCH LINE PIECE NO.
⊥		WELDED MAIN PIECE NO.
⊥		WALL PENETRATION SLEEVE
⊥	PIV/FDC	POST INDICATING VALVE W/ FIRE DEPT CONNECTION
⊥	BFP	BACK FLOW PREVENTOR

ABBREVIATIONS	
AHJ	AUTHORITY HAVING JURISDICTION
AWWA	AMERICAN WATER WORKS ASSOCIATION
BFP	BACK FLOW PREVENTOR
CBC	CALIFORNIA BUILDING CODE
CFC	CALIFORNIA FIRE CODE
CPVC	CHLORINATED POLYVINYL CHLORIDE
DSA	DIVISION OF THE STATE ARCHITECT
FDC	FIRE DEPARTMENT CONNECTION
FM	FACTORY MUTUAL
IBC	INTERNATIONAL BUILDING CODE
N.F.P.A.	NATIONAL FIRE PROTECTION ASSOCIATION
PVC	POLYVINYL CHLORIDE
PIV	POST INDICATOR VALVE
PSI	PRESSURE PER SQUARE INCH
RPDA	REDUCED PRESSURE DETECTOR ASSEMBLY
SQ. IN.	SQUARE INCHES
SQ. FT.	SQUARE FEET
UL	UNDERWRITES LABORATORY

- ### DSA BUILDING SYSTEM GENERAL NOTES
- 2016 NFPA 13, 8.16.4.1.1: THE DESIGNER SHALL INDICATE ON THE PLANS ALL PIPING SUBJECT TO FREEZING (WHERE WATER TEMPERATURE CAN NOT BE MAINTAINED ABOUT 40 DEGREES FAHRENHEIT) AND PROVIDE APPROVED PROTECTION.
 - 2016 NFPA 13, 10.10.2.1.1: UNDERGROUND MAINS AND LEAD-IN CONNECTIONS TO SYSTEM RISERS SHALL BE COMPLETELY FLUSHED BEFORE CONNECTION IS MADE TO OVERHEAD SPRINKLER PIPING. WHERE UNDERGROUND PIPING IS FLUSHED AND NOT IMMEDIATELY CONNECTED TO OVERHEAD PIPING, THE RISER SHALL BE CAPPED OR OTHERWISE PROTECTED TO PREVENT DEBRIS, DIRT, OR ANIMALS FROM ENTERING INTO THE UNDERGROUND PIPING (WITNESSED BY THE PROJECT INSPECTOR).
 - CERTIFIED OR WET-SIGNED WATER FLOW TEST DATA SHALL BE NO MORE THAN 12 MONTHS OLD AT THE TIME OF SUBMITTAL AND INDICATE THE LOCATIONS AND HEIGHT ELEVATIONS OF THE TEST AND RESIDUAL FLOW HYDRANTS. WATER FLOW TEST DATA MUCH BE PROVIDED BY OR WITNESSED BY THE LOCAL WATER PURVEYOR, UTILITIES COMPANY, OR LOCAL FIRE DEPARTMENT.
 - 2016 NFPA 13 FIGURE 10.10.1: A COPY OF COMPLETED AND SIGNED "CONTRACTOR'S MATERIALS & TEST CERTIFICATE FOR UNDERGROUND PIPING" SHALL BE INCLUDED IN THE CLOSE-OUT DOCUMENTS FOR BUILDING SYSTEM.
 - 2016 NFPA 13, 10.10.2.2.1: ALL PIPING AND ATTACHED APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200 PSI, OR 50 PSI IN EXCESS OF THE SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS. (WITNESSED BY PROJECT INSPECTOR).
 - 2016 NFPA 13, 6.2.9.1: PROVIDE SUPPLY OF SPARE SPRINKLERS IN A PROTECTIVE CABINET, INCLUDING SPRINKLER WRENCH FOR EACH TYPE INSTALLED. SUPPLY SHALL BE NO FEWER THAN 6 SPARE SPRINKLERS MATCHING THE TYPES AND TEMPERATURES RATING IN EACH PROTECTED AREA FOR SYSTEMS LESS THAN 300 SPRINKLERS. (12 SPARE SPRINKLER HEADS FOR SYSTEMS 300 TO 1000 SPRINKLERS).
 - 2016 NFPA 13, 9.3.6.1: FURNISH RESTRAINT OF BRANCH LINES. THE END SPRINKLER ON EACH LINE SHALL BE RESTRAINED AGAINST EXCESSIVE VERTICAL AND LATERAL MOVEMENT (9.3.6.3). BRANCH LINES SHALL BE LATERALLY RESTRAINED AT INTERVALS NOT EXCEEDING THOSE SPECIFIED IN Table 9.3.6.4 (a) and (b) (9.3.6.4).
 - 2016 CBC 903.4.2 AND NFPA 13 8.17.4.2.3: THE INSPECTORS TEST VALVE LOCATION SHALL BE ACCESSIBLE. THE PIPE SHALL BE NO LESS THAN 1 INCH, WITH A SMOOTH BORE, CORROSION-RESISTANT ORIFICE, PROVIDING THE EQUIVALENT FLOW OR THE SMALLEST ORIFICE OF THE SPRINKLER TYPES INSTALLED WITHIN THE SYSTEM. THE DISCHARGE SHALL BE TO A DRAIN CONNECTION OR AN APPROVED LOCATION AT THE EXTERIOR OF THE BUILDING.
 - THE SPRINKLER FLOW SWITCH SHALL BE TESTED TO CONFIRM THAT WHEN THE INSPECTOR'S TEST VALVE IS ACTIVATED AN ALARM WILL SOUND NO MORE THAN 90 SECONDS AFTER INITIAL FLOW (WITNESSED BY THE PROJECT INSPECTOR)
 - 2016 CBC 904.4.2: CONNECTIONS TO PROTECTED PREMISES AND SUPERVISING STATION FIRE ALARM SYSTEMS SHALL BE TESTED TO VERIFY PROPER IDENTIFICATION AND TRANSMISSION OF ALARMS FROM AUTOMATIC FIRE EXTINGUISHING SYSTEMS (WITNESSED BY PROJECT INSPECTOR)
 - 2016 NFPA 13 SEC 25.6.1.1: SIGNAGE SHALL BE PROVIDED AS REQUIRED, INCLUDING RISER ROOM IDENTIFICATION.
 - 2016 CBC SEC 903.4.1: THE MAIN FIRE ALARM PANEL VALVE MONITORING AND WATER FLOW ALARM AND TROUBLE SIGNALS SHALL BE DISTINCTLY DIFFERENT AND SHALL BE AUTOMATICALLY TRANSMITTED TO AN APPROVED CENTRAL STATION MONITORING COMPANY.
 - 2016 NFPA 13 SEC 25.5.1: A PERMANENT HYDRAULIC CALCULATIONS DESIGN DATA PLACARD SHALL BE ATTACHED TO EACH RISER.
 - 2016 NFPA 13 SEC 6.9.1 AND 2016 CBC 903.4.2: FLOW SWITCH SHALL BE CONNECTED TO A 10 INCH OUTSIDE ALARM BELL OR OTHER AUDIBLE ALARM DEVICE AT EACH RISER. APPROVED IDENTIFICATION SIGNS SHALL BE PROVIDED ON THE OUTSIDE ALARM BELL. SPRINKLER FIRE ALARM- WHEN ALARM SOUNDS CALL 911/ FIRE DEPARTMENT.
 - TITLE 19 ARTICLE 906 (A) : A LABEL OF THE SELF-ADHESIVE TYPE SHALL BE PLACED ON THE FIRE DEPARTMENT CONNECTION OR ON THE RISER FOR FIRE SPRINKLER SYSTEM AND SHALL INCLUDE THE DATA OF INSTALLATION AND/OR DATE SERVICE WAS PERFORMED AND LICENSE NUMBER OF PERSON PERFORMING SERVICE WORK.
 - 2016 NFPA 13 FIGURE 25.1: INSTALLING CONTRACTOR SHALL COMPLETE AND SIGN CONTRACTOR'S MATERIAL & TEST CERTIFICATE FOR THE ABOVEGROUND PIPING. THIS FORM SHALL BE GIVEN TO THE PROJECT INSPECTOR WHO WILL FORWARD TO DSA FOR FILING IN PROJECT RECORDS.

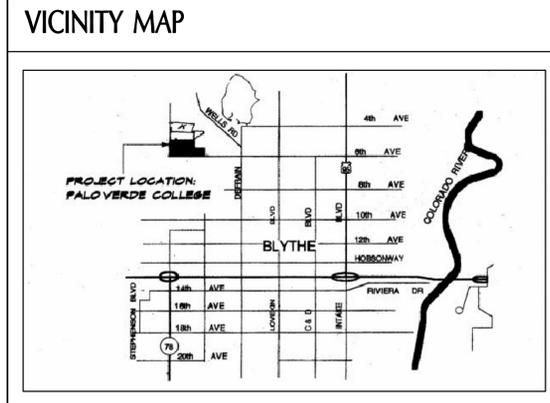
- ### COORDINATION NOTES
- THE FIRE SPRINKLER SYSTEM SUBMITTAL SHALL INCLUDE WORKING PLANS IN ACCORDANCE WITH NFPA13 SECTION 23.1 AND DSA AUTOMATIC FIRE SPRINKLER SYSTEMS PROJECT SUBMITTAL GUIDELINES. DEVIATION FROM APPROVED PLANS SHALL REQUIRE PERMISSION OF THE AUTHORITY HAVING JURISDICTION PER NFPA 13, 23.1.2.
 - CONFIGURATION OF PIPING AND SPRINKLERS SHOWN ON THESE PLANS SHALL BE USED AS A BASIS FOR LAYOUT AND INSTALLATION. OFFSETS OR CHANGES IN ELEVATION SHALL BE UNDERTAKEN BY THE INSTALLING CONTRACTOR AS REQUIRED TO EFFECT COORDINATION WITH OTHER TRADES AND/OR MAINTAIN PROPER CLEARANCES. ALL SUCH REVISIONS SHALL BE SHOWN ON CONTRACTOR'S WORKING PLANS.
 - ALL DIMENSIONS SHOWN ON THESE PLANS ARE CENTERLINE-TO-CENTERLINE. INSTALLING CONTRACTOR SHALL INSPECT AND CONFIRM THE ACTUAL AS-BUILT CONDITIONS OF ALL WORK AREAS AND SHALL COORDINATE THE INSTALLATION OF FIXED FIRE PROTECTION SYSTEMS WITH ALL WORK BY OTHER TRADES.
 - THE EXACT LOCATION AND ELEVATION OF INSTALLED PIPING AND THE CUT LENGTHS OF ALL PIPING AND HANGERS SHALL BE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR.
 - INSTALLING CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH OBSTRUCTIONS SUCH AS STRUCTURE, DUCTWORK, CABLE TRAYS AND OTHER SUCH BUILDING UTILITY SYSTEMS AND WORK BY OTHER TRADES.
 - WHERE FIELD CONFLICTS REQUIRE THAT PIPING BE REVISED, SUCH CHANGES SHALL BE INCLUDED IN CONTRACTOR'S WORKING PLANS AND SUBMITTED TO ARCHITECT FOR REVIEW, TO ASSURE CONFORMANCE TO APPROVED DESIGN.
 - CONTRACTOR SHALL NOT SUBMIT COPIES OF APPROVED CONSTRUCTION DOCUMENTS PRIOR TO COORDINATION OR IN LIEU OF COORDINATED WORKING PLANS.
 - WHERE PENDENT SPRINKLERS ARE SHOWN IN OR NEAR THE EXACT CENTER OF SUSPENDED CEILING TILES, CONTRACTOR SHALL BE CONFIRM THE ACTUAL TILE PATTERN AND SPRINKLER LOCATIONS, SO THAT THE FINAL INSTALLATION IS EXACTLY CENTERED, WHERE CEILING TILES ARE 2'X4" "SECOND LOOK" TYPE WITH 2'X2" MODULES, SPRINKLERS SHALL BE IN THE EXACT CENTER OF THE 2'X2" MODULE. WHERE CEILING TILES ARE CONVENTIONAL 2'X4", SPRINKLERS SHALL BE CENTERED IN THE 2' DIRECTION AND SHALL BE LOCATED AT LEAST 6" CLEAR FROM ANY T-BAR.
 - CONTRACTOR SHALL FURNISH AND COORDINATE CONNECTION POINTS BETWEEN FIRE SPRINKLER SYSTEM SIGNALING DEVICES AND THE FIRE DETECTION AND ALARM SYSTEM. THIS SHALL INCLUDE BUT IS NOT LIMITED TO THE LOCATION OF ALL BELLS AND HORNS, FLOW SWITCHES AND TAMPER SWITCHES REQUIRING CONNECTION TO THE FIRE ALARM AND SUPERVISORY SYSTEMS.
 - CONTRACTOR SHALL UNDERTAKE MEETINGS AND CORRESPONDENCE WITH AUTHORITIES HAVING JURISDICTION, AS REQUIRED TO CONFIRM SPECIFIC REQUIREMENTS REGARDING LOCATIONS AND METHODS OF DISCHARGING WATER FROM TEST AND DRAIN LOCATIONS. WHERE SHOWN ON PLANS, ALL WASTEWATER SHALL DISCHARGE INTO DEDICATED RECEPTORS AND BE COORDINATED WITH THE PLUMBING AND SEWER DESIGNS.

PIPE TABLES

SCH. 10 PIPE ID		SCH. 40 PIPE ID	
NOMINAL	ACTUAL	NOMINAL	ACTUAL
2-1/2"	2.695	1"	1.044
3"	3.260	1-1/4"	1.390
3-1/2"	3.760	1-1/2"	1.610
4"	4.260	2"	2.067
5"	5.295		

SCOPE OF WORK

INSTALL NEW BRANCHLINES, ARM-OVERS & SPRINKLERS PER NFPA 13, 2016 ED. TO THE EXISTING WET-PIPE FIRE SPRINKLER SYSTEM AT THE COLLEGE SERVICES BUILDING ON THE PALO VERDE COMMUNITY COLLEGE CAMPUS. SCOPE OF WORK CONSISTS OF A MINOR CLASSROOM RECONFIGURATION AT THE SOUTHWEST SIDE OF THE BUILDING. AREA OF WORK IS NOT IN THE HYDRAULICALLY MOST REMOTE AREA AND THEREFORE NO CALCULATIONS ARE REQUIRED.



GENERAL CODE DATA

GOVERNING CODES:
BUILDING CODE: CALIFORNIA BUILDING CODE, 2016 ED.
FIRE CODE: CALIFORNIA FIRE CODE, 2016 ED.
N.F.P.A. 13 2016 ED.

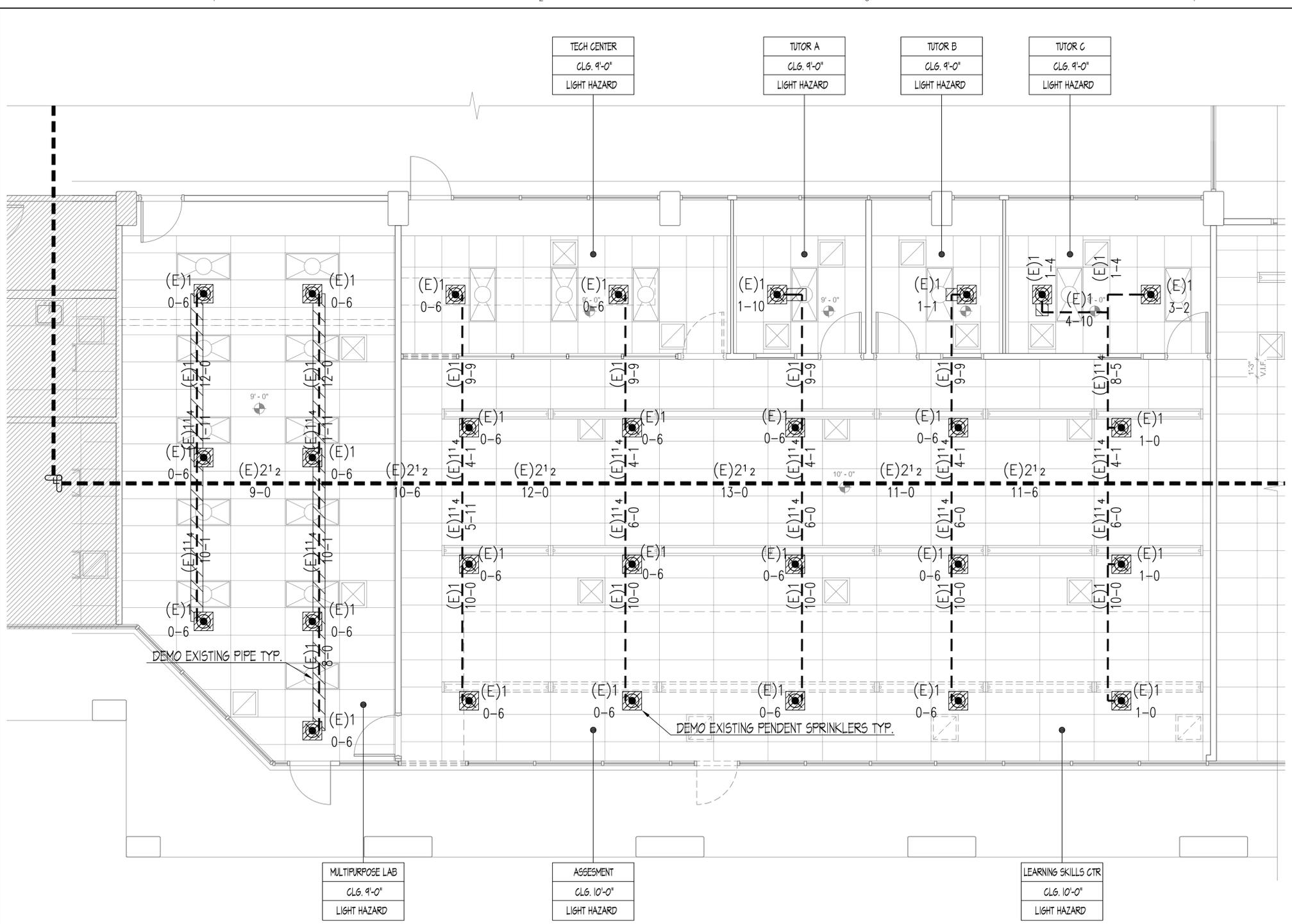
FIRE SPRINKLERED IN LIEU OF RATED CONSTRUCTION: NO

COLLEGE SERVICES BUILDING
TYPE OF CONSTRUCTION: TYPE II - N.R.
NUMBER OF STORIES: 2
AREA: 45,616 SQFT
BUILDING HEIGHT: 43'-0"
OCCUPANCY CLASS: GROUP B



PROTECTION DESIGN AND CONSULTING

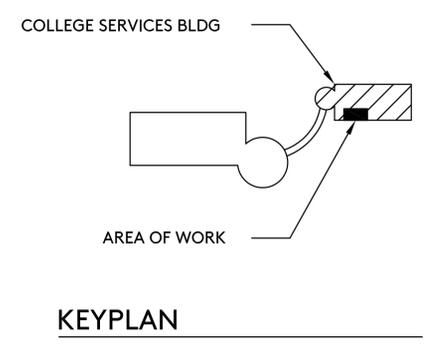
2851 Camino Del Rio S. #210
San Diego, California 92108
www.protectiondesign.com
phone 619.255.8964
fax 619.255.9547



SECOND FLOOR DEMO PIPING & SPRINKLER PLAN

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

FIRE SPRINKLER LEGEND											SPACING		ESCUTCHEON		COMMENTS	TOTAL	
SYM	LOCATION	MFR	MODEL	SIN	SR/QR	K-FAC	TYPE	TEMP	FIN	THRD	MIN/MAX	AREA	TYPE	FIN			
☒	FINISHED CEILING	RELIABLE	GPR/F2	-	QR	5.6K	SSP	165°	WHITE	1/2"	6'-0"	15'-0"	225 SQ.F.	RECESSED	CHROME	EXISTING	20
TOTAL THIS SHEET																20	



- LEGEND:**
- EXISTING PIPING
 - EXISTING PIPING TO BE DEMOLISHED
 - ☒ EXISTING SPRINKLERS TO BE DEMOLISHED.

SCOPE OF WORK THIS SHEET:
 DEMOLISH EXISTING PIPING & UPRIGHT/ PENDENT SPRINKLERS
 IN ALL AFFECTED AREAS OF THE IMPROVEMENT

CLIENT

PALO VERDE COLLEGE
 WHERE KNOWLEDGE TAKES ROOT AND OPPORTUNITY GROWS

Palo Verde Community College District
 1 College Drive
 Blythe, CA 92225

PROJECT NAME

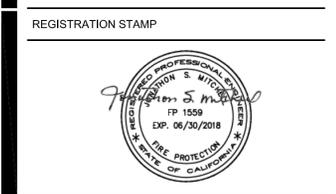
Project 2
 College Services Building
 1 College Drive
 Blythe, CA 92225

CONTRACTOR

DESIGNER

SILLMAN WRIGHT ARCHITECTS
 31045 Temecula Parkway Suite 204
 Temecula, CA 92592
 T. 760.489.4432
 www.sillmanwright.com

CONSULTANTS



ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.:
 DRAWN BY:
 CHECKED BY:
 SCALE:
 DESIGN ITERATION

DSA Submittal 10/06/2017
 DSA Submittal 2/7/2018

FILE NUMBER: 33-C4

IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 APP. NO: 04 - 116526 INCR: 0
 AC BL FLS DSH SS DW
 DATE 02/09/2018

DATE 2/7/2018

SHEET TITLE

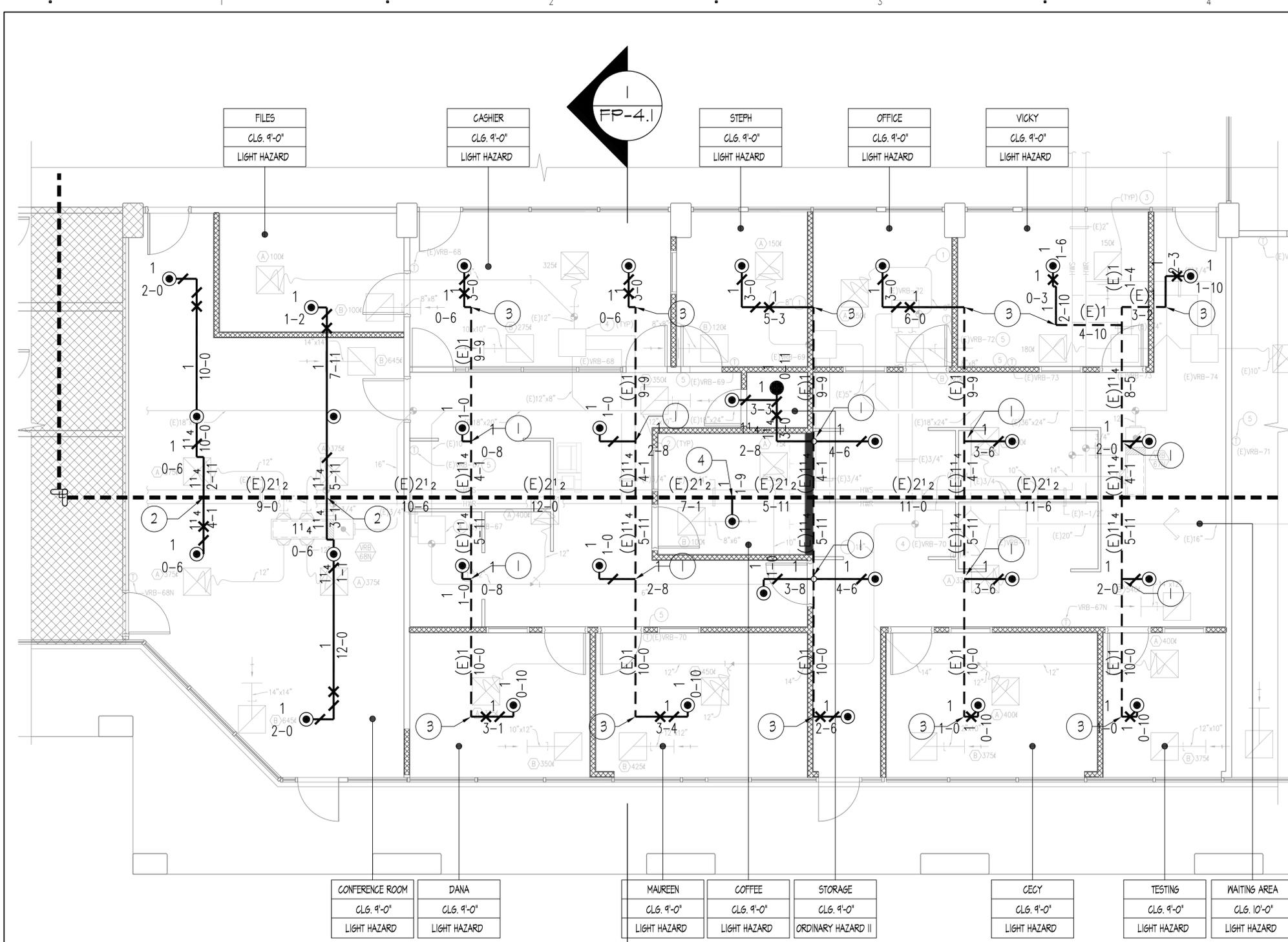
DEMO PLAN

SHEET NUMBER

FP-2.0



PROTECTION DESIGN AND CONSULTING
 2851 Camino Del Rio S. #210
 San Diego, California 92108
 www.protectiondesign.com
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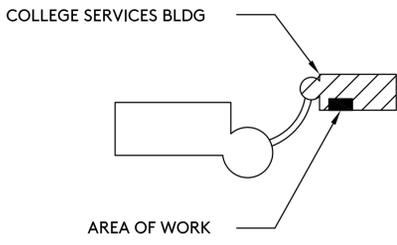


PIPE LEGEND:
 - - - EXISTING PIPING
 ——— NEW PIPING

SECOND FLOOR PIPING PLAN
 SCALE: 1/4" = 1'-0"
 PLAN NORTH

WALL LEGEND

- EXISTING WALL TO REMAIN
- ▨ NEW 3-5/8" METAL STUD WALL WITH 5/8" GYP BD BOTH SIDES, SEE DETAIL 1/A-800
- ▩ NEW 6" METAL STUD PLUMBING WALL WITH 5/8" GYP BD ON OUTSIDE FACE AND W.P. GREEN BOARD IN THE INSIDE/PLUMBING FACE, SEE DETAIL 8/A-800



KEYPLAN

FIRE SPRINKLER LEGEND													SPACING		ESCUTCHEON		COMMENTS	TOTAL
SYM	LOCATION	MFR	MODEL	SIN	SR/QR	K-FAC	TYPE	TEMP	FIN	THRD	MIN/MAX	AREA	TYPE	FIN				
⊙	FINISHED CEILING	TYCO	TYCO TY-FRB	TY-323	QR	5.6K	SSP	155°	WHITE	1/2"	6'-0" 15'-0"	225 S.F.	RECESSED	CHROME	NEW PENDENT	51		
●	FINISHED CEILING	TYCO	TYCO RF-II	TY-355I	QR	5.6K	SSP	155°	WHITE	1/2"	6'-0" 15'-0"	225 S.F.	CONCEALED	WHITE	NEW PENDENT	1		
TOTAL THIS SHEET																52		

INSTALLATION NOTES:

- PIPE TYPES**
 1. LINES TO BE BLACK SCHEDULE 40 STEEL PIPE, U.O.N.
- PIPE SIZES**
 1. BRANCHLINES TO BE 1/2" & 1" NOMINAL DIAMETER PIPE, U.O.N.
 2. ARM-OVERS AND DROPS TO BE 1" NOMINAL DIAMETER PIPE, U.O.N.
- HANGERS**
 1. HANG LINES & MAINS TO CONCRETE DECK AT ELEVATIONS NOTED PER DETAIL.
 2. HANG LINES & MAINS TO STEEL BEAMS AT ELEVATIONS NOTED PER DETAIL.
- DENOTES HANGER LOCATION
 ○ DENOTES LATERAL RESTRAINT
- FURNISH RESTRAINING TYPE HANGERS AT THE ENDS OF ALL BRANCHLINES, AND AT EVERY DISTANCE ALONG THE LINES MENTIONED IN THE RESTRAINT SPACING TABLE BELOW.
- X— DENOTES LATERAL RESTRAINT
4. SEE SHEET FP-4.0 FOR DETAILS

SYMBOL LEGEND

- ① INSTALL NEW ARM-OVER AT EXISTING 1" TEE
- ② INSTALL NEW BRANCHLINE AT EXISTING 1-1/4" OUTLETS
- ③ INSTALL NEW ARM-OVER AT EXISTING 1" ELBOW
- ④ INSTALL NEW 2-1/2" X 1" MECHANICAL TEE

CLIENT



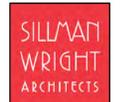
Palo Verde Community College District
 1 College Drive
 Blythe, CA 92225

PROJECT NAME

Project 2
 College Services Building
 1 College Drive
 Blythe, CA 92225

CONTRACTOR

DESIGNER



31045 Temecula Parkway
 Suite 204
 Temecula, CA 92592
 T. 760.489.4432
 www.sillmanwright.com

CONSULTANTS

REGISTRATION STAMP



ISSUE

Mark	Date	Description

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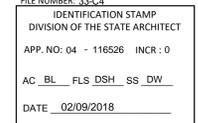
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SCALE:

DESIGN ITERATION

DSA Submittal 10/06/2017

DSA Submittal 2/7/2018



DATE 2/7/2018

SHEET TITLE

PIPING PLAN

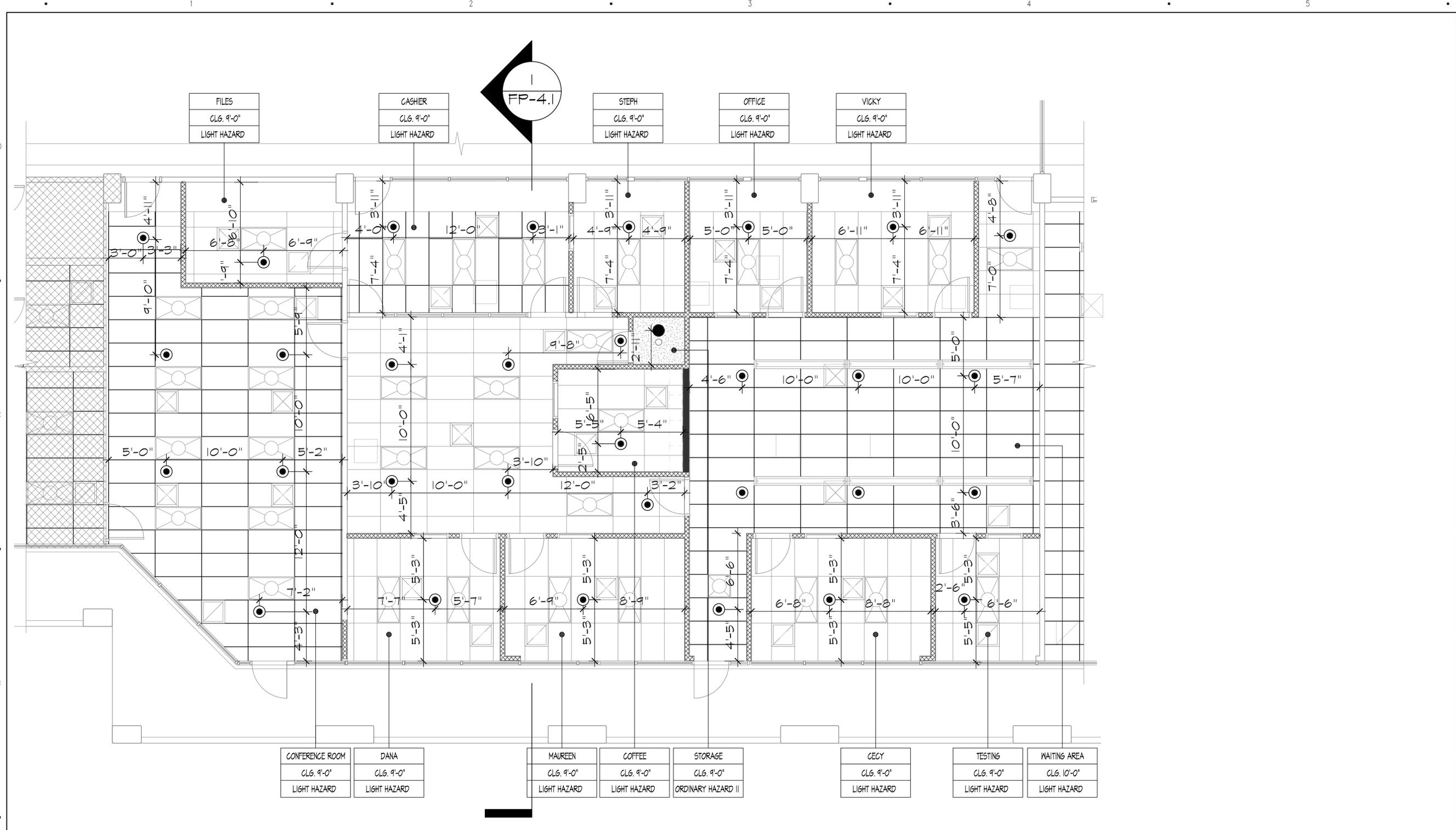
SHEET NUMBER

FP-2.1



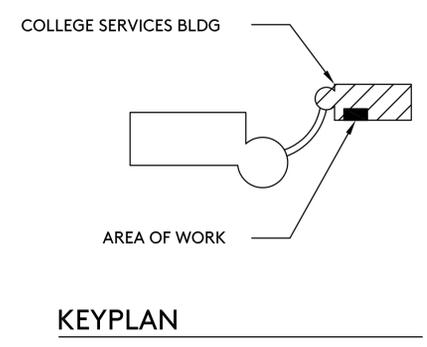
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 fax 619.255.9547



SECOND FLOOR RCP PLAN
 SCALE: 1/4" = 1'-0"
 PLAN NORTH

PER ASCE 7, 2005 SEC. 13.5.6.2.2 (e), WHERE CEILINGS ARE NOT RIGIDLY BRACED, SPRINKLERS SHALL BE PROVIDED WITH A 2" OVERSIZED RING, SLEEVE OR ADAPTOR THROUGH THE CEILING TO ALLOW 1" HORIZONTAL MOVEMENT IN ANY DIRECTION.



CLIENT

PALO VERDE COLLEGE
WHERE KNOWLEDGE TAKES ROOT AND OPPORTUNITY GROWS

Palo Verde Community College District
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 College Services Building
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SILLMAN WRIGHT ARCHITECTS
 31045 Temecula Parkway Suite 204
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 www.sillmanwright.com

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DSA Submittal 10/06/2017
 DSA Submittal 2/7/2018

FILE NUMBER: 33-C4
 IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 APP. NO: 04 - 116526 INCR - 0
 AC BL FLS DSH SS DW
 DATE 02/09/2018

DATE 2/7/2018

SHEET TITLE

REFLECTED CEILING PLAN

SHEET NUMBER

FP-3.0

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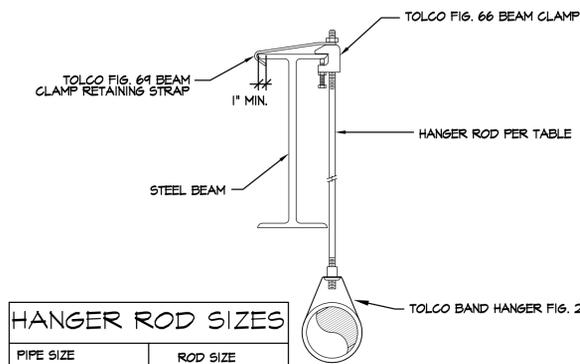


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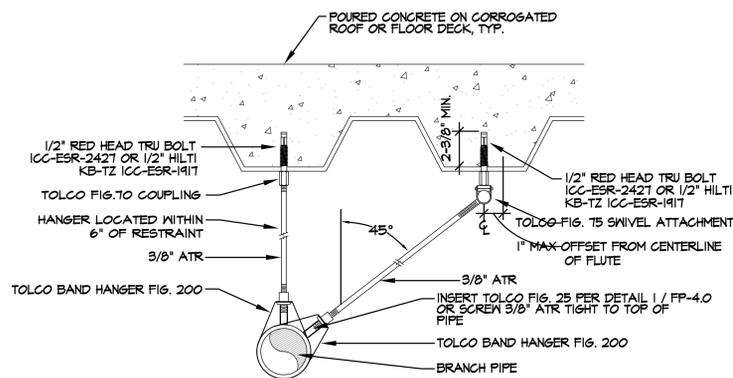
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AC, BL, FLS, DSH, SS, DW
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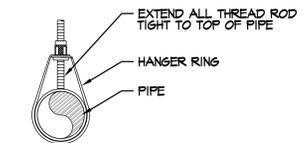
HANGER ROD SIZES

PIPE SIZE	ROD SIZE
4" AND UNDER	3/8"
5", 6", & 8"	1/2"

BEAM CLAMP HANGER DETAIL
NOT TO SCALE SHOWN ON PLAN AS 3
FP-4.0



CONCRETE RESTRAINT DETAIL
NOT TO SCALE SHOWN ON PLAN AS 6
FP-4.0

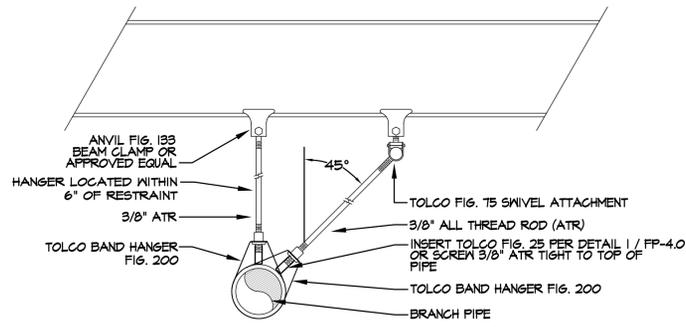


ROD STIFFENER DETAIL
NO SCALE SHOWN ON PLAN AS 2
FP-4.0

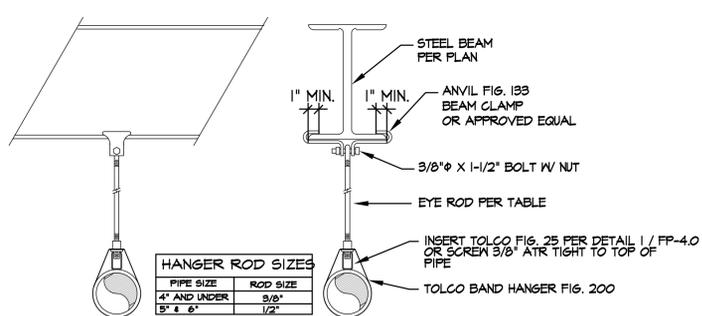


TOLCO FIG. 25 SURGE RESTRAINT
TYPE 1 - FOR 1" AND 1-1/4" PIPE AND HANGER
TYPE 2 - FOR 1-1/2" AND 2" PIPE AND HANGER
TOLCO FIG. 25 IS DESIGNED TO BE USED ONLY WITH TOLCO BAND HANGERS FIG. 200 TO RESTRAIN THE UPWARD MOVEMENT OF PIPE AS IT OCCURS DURING SPRINKLER HEAD ACTIVATION OR SEISMIC ACTIVITY
LATERAL RESTRAINTS SHALL BE LOCATED WITHIN 2'-0" OF HANGER. THIS HANGER SHALL BE USED ALONG WITH VERTICAL RESTRAINTS.

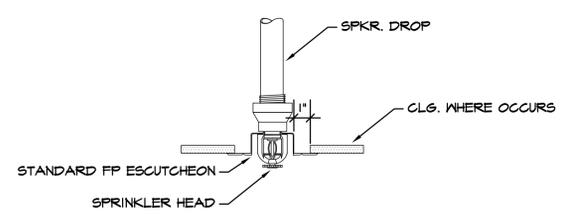
VERTICAL RESTRAINT
NOT TO SCALE SHOWN ON PLAN AS 1
FP-4.0



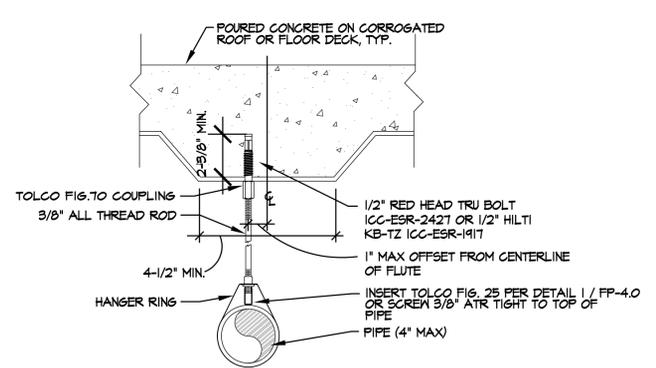
STEEL STRUCTURE RESTRAINT DETAIL
NO SCALE SHOWN ON PLAN AS 5
FP-4.0



BEAM CLAMP HANGER DETAIL
NOT TO SCALE SHOWN ON PLAN AS 4
FP-4.0



FIRE SPRINKLER DETAIL FOR 1" ANNULAR CLEARANCE
NOT TO SCALE 8
FP-4.0



VERTICAL CONCRETE HANGER 4" PIPE
NOT TO SCALE SHOWN ON PLAN AS 7
FP-4.0



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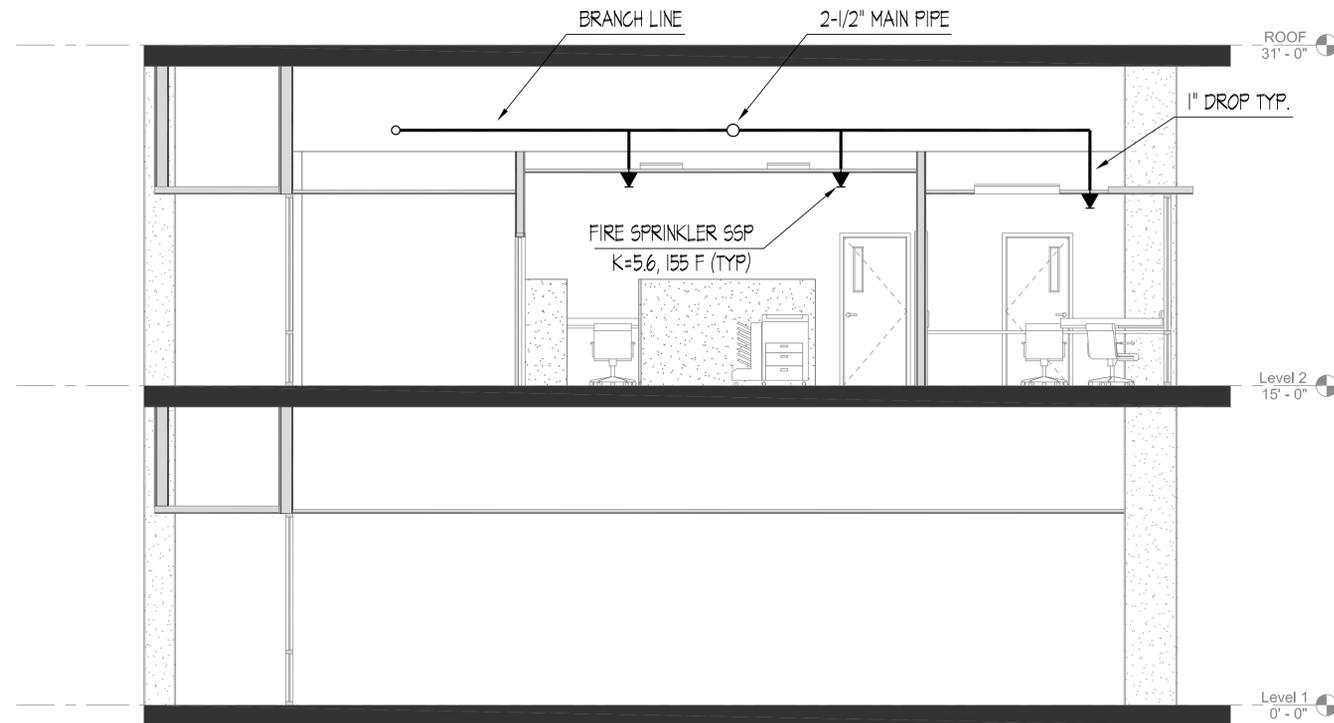
DATE 2/7/2018

SHEET TITLE

BUILDING SECTION

SHEET NUMBER

FP-4.1



BUILDING SECTION

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



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SEQUENCE OF OPERATIONS

SEQUENCE OF OPERATIONS						
	SMOKE DETECTORS	AC POWER FAILURE AT NEW FACP	GROUND FAULT	SPRINKLER WATER FLOW SWITCH	SPRINKLER FIV/TAMPER SWITCH	
ANNUNCIATE ALARM AT FACP/ANNUNCIATOR/CENTRAL STATION	YES	NO	NO	YES	NO	
ANNUNCIATE TROUBLE AT FACP/ANNUNCIATOR/CENTRAL STATION (WIRING FAULT)	YES	YES	YES	YES	YES	
ANNUNCIATE SUPERVISORY AT FACP/ANNUNCIATOR/CENTRAL STATION	NO	NO	NO	NO	YES	
ACTIVATE NOTIFICATION APPLIANCE VISUALS AND AUDIO	YES	NO	NO	YES	NO	

MONITORING COMPANY

MONITORING COMPANY	
COMPANY	APPLE VALLEY COMMUNICATIONS
ADDRESS	22845 US HWY 99 APPLE VALLEY, CA 92308
PHONE NUMBER	760-247-2668
FAX NUMBER	760-247-0887
ID NUMBER	696540-001
LICENSE EXPIRATION	MARCH 31, 2018
PROTECTIVE SIGNALING SERVICE	REMOTE STATION

DESIGN SPECIFICATIONS

DESIGN SPECIFICATIONS	
PROJECT NAME	PROJECT 2 - COLLEGE SERVICES BUILDING
OCCUPANCY	B
TYPE	1E-NR
SPRINKLERED	YES
SQUARE FOOTAGE	3347
INSTALL NEW SYSTEM AS FOLLOWS:	(1) WALL MOUNT STROBES, (4) WALL MOUNT HORN STROBES (3) SMOKE DETECTOR, 14 FOR MONITORING.

FIRE ALARM SYMBOLS LIST

SYM	QTY	DESCRIPTION	BACKBOX/BASE	MANUFACTURER	PART NO.	CSFM LISTING
[FACP]	E	FIRE ALARM CONTROL PANEL	INSIDE FIRE ALARM CABINET	NOTIFIER	NFS2-3030	7170-0028-0223
--	E	CABINET ENCLOSURE FOR CONTROL PANEL	FOUR TIER "D" SIZE 24-1/8"W x 45-7/8"H x 5-5/32"D	NOTIFIER	DR-D4	7165-0028-0224
--	E	POWER SUPPLY FOR NFS2-3030	INSIDE FIRE ALARM CONTROL PANEL	NOTIFIER	AMPS-24	7165-0028-0244
--	E	6.0 AMP AUXILIARY POWER SUPPLY	INSIDE FIRE ALARM CONTROL PANEL	NOTIFIER	APS2-6R	7315-0028-0248
[SRD]	E	SYSTEM RECORD DOCUMENT CABINET	SIZE 12"W x 13"H x 2-1/4"D	SPACE AGE ELECTRONIC	SSU00689	NOT APPLICABLE
[UDACT]	E	UNIVERSAL DIGITAL ALARM COMMUNICATOR TRANSMITTER	ABS-8RB 9.94"H x 4.63"W x 2.5"D	NOTIFIER	UDACT	7300-0028-0174
[FAA]	E	FIRE ALARM ANNUNCIATOR	ABF-10B 4.625"W x 9.938"H x 2.5"D	NOTIFIER	LCD-160	7120-0028-0227
[SPD]	E	SURGE PROTECTION DEVICE	INSIDE 4-S BOX	SPACE AGE	E120V-GT	NOT APPLICABLE
[?]	19	SMOKE DETECTOR W/ SENSOR BASE	4-S BOX W/3" O-RING	NOTIFIER	FSP-851 B210LP	7472-0028-0206 7300-1653-0109
[S]	10	L-SERIES STROBE, RED, WALL (Notification)	4-S BOX W/SINGLE GANG RING	SYSTEM SENSOR	SRL	7125-1653-0504
[HS]	4	L-SERIES 2-WIRE, HORN STROBE, RED, WALL (Notification)	4-S BOX W/SINGLE GANG RING	SYSTEM SENSOR	P2RL	7125-1653-0503
--	2	55AH BATTERY	PROVIDED W/PANEL OR NFS-LBB IF BATTERIES OVER 26AH	POWER SONIC	PS-12550	NOT APPLICABLE
--	VERIFY	16/2 SOLID BARE COPPER WITH STP	NOT APPLICABLE	WEST PENN WIRE	991	7161-0859-0101
--	VERIFY	1 PR 16AWG STRANDED UNSHIELDED FIRE ALARM OUTDOOR CABLING	NOT APPLICABLE	WEST PENN WIRE	ACC226RD4VC	7161-0859-0101
--	VERIFY	INITIATION CABLE (2)#12/14 FOR USE WITH CONDUIT	NOT APPLICABLE	CES	THHX	NOT APPLICABLE
[F]	E	MANUAL PULL STATION	4-S BOX W/SINGLE GANG RING	NOTIFIER	NBC-12LX	7150-0028-0199

* E - EXISTING

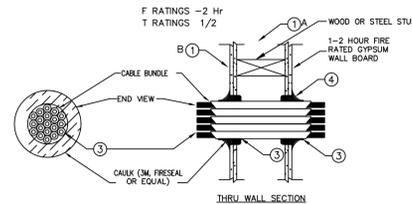
GENERAL NOTES

- ALL EQUIPMENT SHALL BE U.L. AND C.S.F.M. LISTED.
- ALL WIRING SHALL BE IN ACCORDANCE WITH N.E.C. AND AUTHORITIES HAVING JURISDICTION.
- ALL JUNCTION BOXES SHALL BE SIZED IN ACCORDANCE WITH THE N.E.C. AND SHALL HAVE THEIR COVERS PAINTED RED WHERE APPLICABLE.
- ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO INITIATING DEVICES THAT REQUIRE SERVICING, TROUBLE SHOOTING AND MAINTENANCE.
- DO NOT DEVIATE FROM CONDUIT RUNS AS SHOWN ON FLOOR PLANS WITHOUT PRIOR APPROVAL FROM SYSTEM SUPPLIER (APPLE VALLEY COMMUNICATIONS, INC., TEL (760) 247-2668). FACTORS SUCH AS EXCESSIVE VOLTAGE DROP, ADDITIONAL PARTS, ENGINEERING, ETC., THAT ARE A RESULT OF CONDUIT RUN DEVIATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- ALL 120VAC POWER REQUIREMENTS FOR THE FIRE ALARM SYSTEM SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR AND SHALL MEET ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
- ALL DEVICE BACKBOXES, TERMINAL CABINETS, GUTTERS, JUNCTION BOXES AND ASSOCIATED CONDUITS AS SHOWN ON THESE DRAWINGS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. REFER TO SYMBOL LIST AND OR MOUNTING DETAILS FOR ADDITIONAL INFORMATION. SYSTEM SUPPLIER PROVIDED BACKBOXES SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
- ELECTRICAL POWER SERVICE SHALL BE ON A DEDICATED BRANCH CIRCUIT(S). THE CIRCUIT(S) AND CONNECTIONS SHALL BE MECHANICALLY PROTECTED (CIRCUIT BREAKERS SHALL BE LOCKED IN THE ON POSITION WITH AN APPROVED MECHANICAL CLIP). CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL AND SHALL BE PERMANENTLY IDENTIFIED AS "FIRE ALARM CIRCUIT". THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT NFPA 72
- TAMPER RESISTANT SCREWS OR OTHER APPROVED MECHANICAL MEANS SHALL BE PERMITTED FOR PREVENTING ACCESS TO JUNCTION BOXES AND DEVICE COVERS INSTALLED OUTSIDE OF BUILDINGS.
- ALL CONDUITS ARE 3/4" UNLESS OTHERWISE NOTED.
- ALL WIRING SHALL BE CUT FOR IN AND OUT. WIRING SHALL NOT BE LOOPED THROUGH DEVICES.
- POINT AND COMMON ANNUNCIATION AND T-TAPPING ARE PROHIBITED (T-TAPPING IS ALLOWABLE ON ADDRESSABLE CLASS B SLC LOOPS).
- ALL DEVICES IN THE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- ALL WIRING, INITIATING DEVICES AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION. THE FIRE ALARM CONTROL UNIT TO SUPERVISE THE ANNUNCIATOR PANEL, ALL INITIATING AND INDICATING DEVICE CIRCUITS.
- SYSTEM SHALL BE FURNISHED AND INSTALLED BY A NESCO AFFILIATE AND AUTHORIZED NOTIFIER DISTRIBUTOR. INSTALLATION COMPANY SHALL BE UL LISTED (UJUSUJFX).
- IN SPACES SERVED BY AIR-HANDLING SYSTEMS, DETECTORS SHALL NOT BE LOCATED WHERE AIRFLOW PREVENTS THE OPERATION OF THE DETECTORS. DETECTORS SHALL NOT BE LOCATED IN DIRECT AIRFLOW OR CLOSER THAN 36-INCHES FROM AN AIR SUPPLY DIFFUSER OR RETURN OPENING. SMOKE DETECTORS SHOULD BE LOCATED FARTHER AWAY FROM HIGH VELOCITY AIR SUPPLIES (NFPA 72)
- ALL FAN SHUTDOWN FUNCTIONS, DAMPER CLOSURES AND ASSOCIATED MECHANICAL SYSTEM FIRE ALARM INTERFACE SHALL BE BY THE MECHANICAL CONTRACTOR.
- ALL DUCT DETECTORS SHALL BE MOUNTED BY THE MECHANICAL OR ELECTRICAL CONTRACTOR. IF DUCT SMOKE DETECTORS ARE EXPOSED TO THE WEATHER, THEY SHALL BE WEATHER PROTECTED BY THE MECHANICAL CONTRACTOR. ALL AIR VELOCITY TESTING SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR.
- DETECTORS SHALL BE PROTECTED DURING CONSTRUCTION PER NFPA 72.
- SMOKE DETECTORS AND HEAT DETECTOR SHALL BE LOCATED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND NFPA 72.
- SMOKE DETECTOR TESTING SHALL BE ACCOMPLISHED WITH SMOKE OR LISTED AEROSOL APPROVED BY THE MANUFACTURER PER NFPA 72 AS

ACCEPTABLE BY THE A.H.J.

- CENTER OF MANUAL PULL STATIONS SHALL BE MOUNTED AT 48" ABOVE FLOOR LEVEL.
- CONTRACTOR TO PROVIDE 34" CONDUIT WITH (2) DEDICATED TELEPHONE LINES WITH (2) RJ-31X PHONE JACKS FROM TELEPHONE BACKBOARD FOR OWNER PROVIDED CENTRAL STATION MONITORING PANEL.
- UPON COMPLETION OF ALL INSTALLATION AND TESTING, THE CONTRACTOR SHALL PROVIDE TO THE AUTHORITY HAVING JURISDICTION AND THE BUILDING OWNER A COMPLETED AND SIGNED NFPA 72 CERTIFICATE OF COMPLETION.
- ALL CEILING-MOUNTED STROBE LOCATIONS ARE SPACED IN ACCORDANCE WITH NFPA 72, REQUIREMENTS BASED UPON CEILING HEIGHT AT THAT LOCATION.
- ALL WALL-MOUNTED VISUAL SIGNALING APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80 IN. (2.03m) AND NOT GREATER THAN 96 IN. ABOVE THE FINISHED FLOOR (A.F.F.) PER NFPA 72. ALL WALL MOUNTED AUDIBLE DEVICES SHALL BE A MINIMUM OF 90" A.F.F. TO TOP OF DEVICE PER NFPA 72.
- AREAS HAVING MORE THAN 2 STROBES IN THE FIELD OF VIEW SHALL BE SYNCHRONIZED PER NFPA 72.
- PUBLIC MODE AUDIBLE REQUIREMENTS, UNLESS OTHERWISE PERMITTED BY THE AUTHORITY HAVING JURISDICTION, SHALL HAVE A SOUND LEVEL AT LEAST 15DB ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF A LEAST 60 SECONDS, WHICHEVER IS GREATER, MEASURED 5 FEET ABOVE THE FLOOR IN THE AREA REQUIRED TO BE SERVED BY THE SYSTEM USING ALARM SYSTEM USING THE A-WEIGHTED SCALE (dBA).
- THE ALARM AUDIBLE SIGNAL PATTERN USED TO NOTIFY BUILDING OCCUPANTS OF THE NEED TO EVACUATE OR RELOCATE SHALL BE THE STANDARD ALARM EVACUATION OF THREE-PULSE PATTERN AND THAT THIS SOUND NOT TO BE USED FOR ANY OTHER PURPOSE (NFPA 72) FIRE ALARM SIGNAL.
- FIRE ALARM CONTRACTOR SHALL PROVIDE AN IMPEDANCE METER AT THE TIME OF FINAL INSPECTION WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- THE KITCHEN HOOD FIRE SUPPRESSION SYSTEM WILL BE SUPERVISED AND MONITORED BY THE FIRE ALARM SYSTEM.
- AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
- VISUAL DEVICES SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELLA. VISUAL DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
- UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATERTIGHT FITTINGS AND WIRE TO BE APPROVAL FOR WET LOCATIONS.
- ALL FIRE ALARM WIRING SHALL BE FLP OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN.
- PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.
- SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
- FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURER'S SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
- SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
- OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.

THROUGH PENETRATION



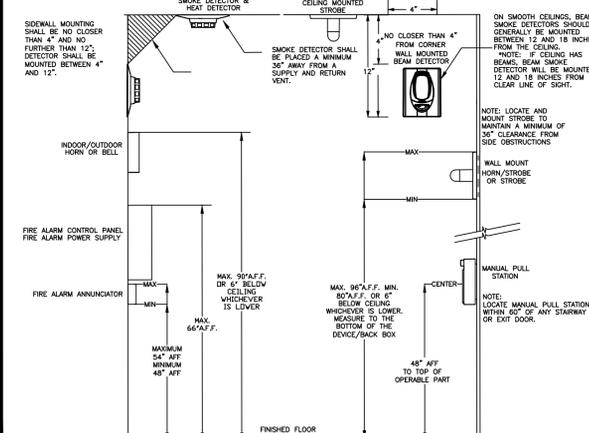
- WALL ASSEMBLY - THE FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 OF SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2H FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS IN. OC.
 B. WALLBOARD, GYPSUM - TWO LAYERS NOM 5/8 IN. THICK, GYPSUM WALLBOARD, AS SPECIFIED IN THE INDIVIDUAL WALL OR PARTITION DESIGN. MAX DIA OF OPENING IS 1-1/4 IN.
 C. MAX 150 PAIR NO. 24 AWG TELECOMMUNICATION CABLE: PVC INSULATION AND JACKET MATERIALS.
 D. MAX NO 2/0 AWG MULTICONDUCTOR POWER AND CONTROL CABLES: XLPE INSULATION.
 E. MAX 150 PAIR NO. 24 AWG TELECOMMUNICATION CABLE: PVC INSULATION AND JACKET MATERIALS.
- FILL VOID OR CAVITY MATERIAL - WRAP STRIP - NOM. 1/4 IN. THICK INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL, SUPPLIED IN NOM 2 IN. WIDE STRIP TIGHTLY WRAPPED AROUND CABLE BUNDLE (FOIL SIDE OUT) WITH SEAM BUTTED. WRAP STRIP LAYER SECURELY BOUND WITH STEEL WIRE TIE AND SLD INTO ANNUAL SPACE APPROX. 1-1/4 IN. SUCH THAT APPROX. 3/4 IN. OF THE WRAP STRIP WIDTH PROTRUDES FROM THE WALL SURFACE ON EACH SIDE OF THE ASSEMBLY.
- FILL VOID OR CAVITY MATERIAL - CAULK - MIN 1/4 IN. DIAM CONTINUOUS BEAD OF CAULK APPLIED TO THE WRAP STRIP/WALL INTERFACE AND EXPOSED EDGE OF THE WRAP STRIP APPROX 3/4 IN. FROM THE WALL SURFACE ON EACH SIDE OF WALL ASSEMBLY. CAULK TO BE FORCED INTO THE INTERSTICES OF THE CABLE BUNDLE TO THE MAX EXTENT POSSIBLE WITHIN THE CONFINES OF THE WRAP STRIP ON EACH SIDE OF THE WALL ASSEMBLY.

MOUNTING HEIGHT

AUDIBLE NOTIFICATION DEVICES SHALL BE MOUNTED A MINIMUM OF 90" (2.30m) ABOVE FINISHED FLOOR, OR NO LESS THAN 6" (152mm) BELOW FINISHED CEILING PER NFPA 72 2016 FIRE ALARM CODE.

VISIBLE OR COMBINATION AUDIBLE/VISIBLE DEVICES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80 IN. (2.03 m) AND NOT GREATER THAN 96 IN. (2.44 M) ABOVE THE FINISHED FLOOR PER NFPA 72 2016 FIRE ALARM CODE.

MANUAL PULL STATIONS SHALL BE MOUNTED NO LESS THAN 42" (1.1m) AND NO MORE THAN 54" (1.37m) ABOVE FINISHED FLOOR PER NFPA 72 2016 FIRE ALARM CODE



APPLICABLE CODES

2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

2016 CALIFORNIA BUILDING CODE PART 2, TITLE 24, CCR (2015 IBC AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ELECTRICAL CODE PART 3, TITLE 24, CCR (2017 NEC AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA MECHANICAL CODE PART 4, TITLE 24, CCR (2015 UMC AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA PLUMBING CODE PART 5, TITLE 24, CCR (2013 UPC AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA FIRE CODE PART 9, TITLE 24, CCR (2013 IFC AND 2016 CALIFORNIA AMENDMENTS)

2016 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

CLIENT



Palo Verde Community College District
1 College Drive
Blythe, CA 92225

PROJECT NAME

Project 2
College Services Building
1 College Drive
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CONTRACTOR

DESIGNER



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ISSUE

Mark	Date	Description

DESIGNER PROJECT NO.:

DRAWN BY:

CHECKED BY:

SCALE:

DESIGN ITERATION

DSA 10/06/2017

Submittal FILE NUMBER: 33-C4

DSA Submittal IDENTIFICATION STAMP 2/7/2018

DIVISION OF THE STATE ARCHITECT

APP. NO: 04 - 116526 INCR: 0

AC, BL, FLS, DSH, SS, DW

DATE 02/09/2018

DATE 2/7/2018

SHEET TITLE

FIRE ALARM COVER PAGE

SHEET NUMBER

FA-001

Battery Calculations for Panel: NFS2-3030

Table with columns: Part No., Qty., Description, Standby, Total Standby, Alarm, Total Alarm. Includes sub-totals for Standby time, Alarm time, and Battery requirement.

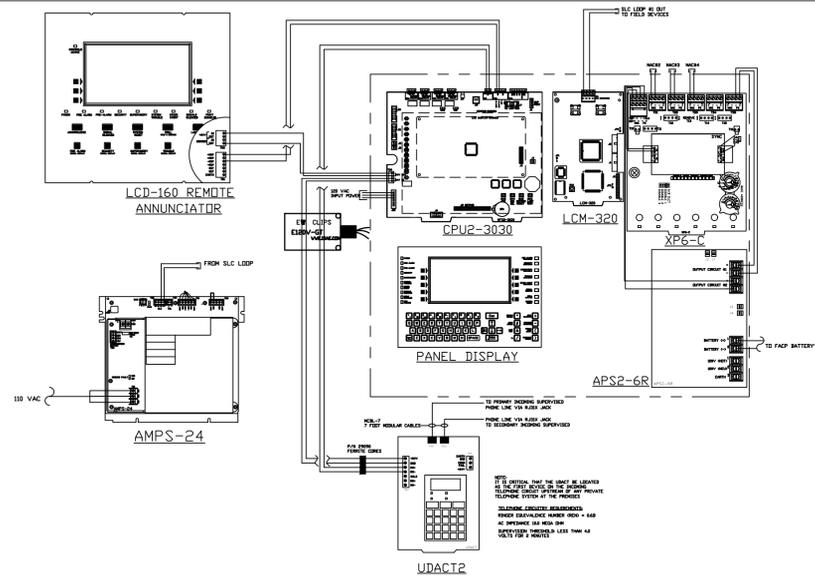
Circuit Calculations Panel: NFS2-3030 Card: XP6-C Circuit:S5-

Table with columns: Device, Part No., Appliance Desc, Distance, Current, Voltage, Voltage Drop. Includes Total Current and Total Voltage Drop.

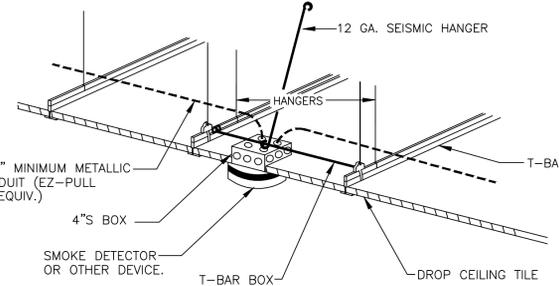
Circuit Calculations Panel: NFS2-3030 Card: XP6-C Circuit:S6-

Table with columns: Device, Part No., Appliance Desc, Distance, Current, Voltage, Voltage Drop. Includes Total Current and Total Voltage Drop.

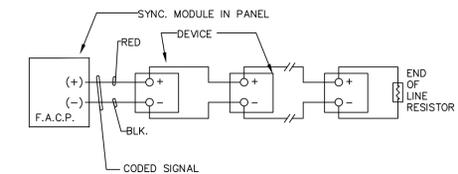
FIRE ALARM WIRING DIAGRAMS



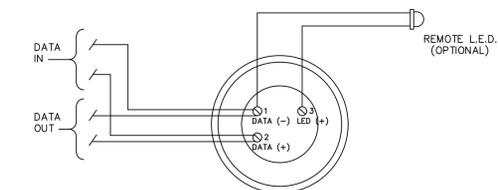
FIRE ALARM CONTROL PANEL - NFS2- 3030



TYPICAL (SMOKE/HEAT DETECTOR, CEILING MOUNT) INSTALLATION DETAIL

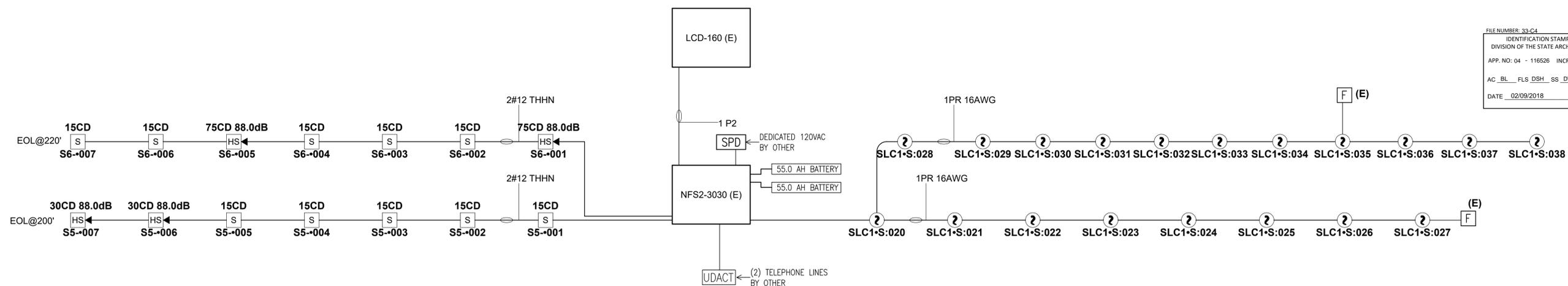


TYPICAL AUDIO/VISUAL DEVICE WIRING



TYPICAL SMOKE/HEAT DETECTOR WIRING

FIRE ALARM RISER



FILE NUMBER: 33-C4 IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT APP. NO: 04 - 116526 INCR: 0 AC BL FLS DSH SS DW DATE 02/09/2018

CLIENT



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PROJECT NAME

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ISSUE

Table with columns: Mark, Date, Description

DESIGNER PROJECT NO.:

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SCALE:

DESIGN ITERATION

DSA Submittal 10/06/2017

DSA Submittal 2/7/2018

DATE 2/7/2018

SHEET TITLE

FIRE ALARM BATTERY CALCULATIONS & RISER DIAGRAM

SHEET NUMBER

FA-002

2/15/2018 11:50:48 AM, AVCOM, DESIGNER: JOHN NUNEZ-FRANCO



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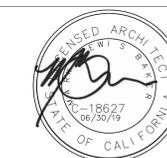
DESIGNER



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DSA 10/06/2017

Submittal

DSA Submittal 2/7/2018

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DATE 2/7/2018

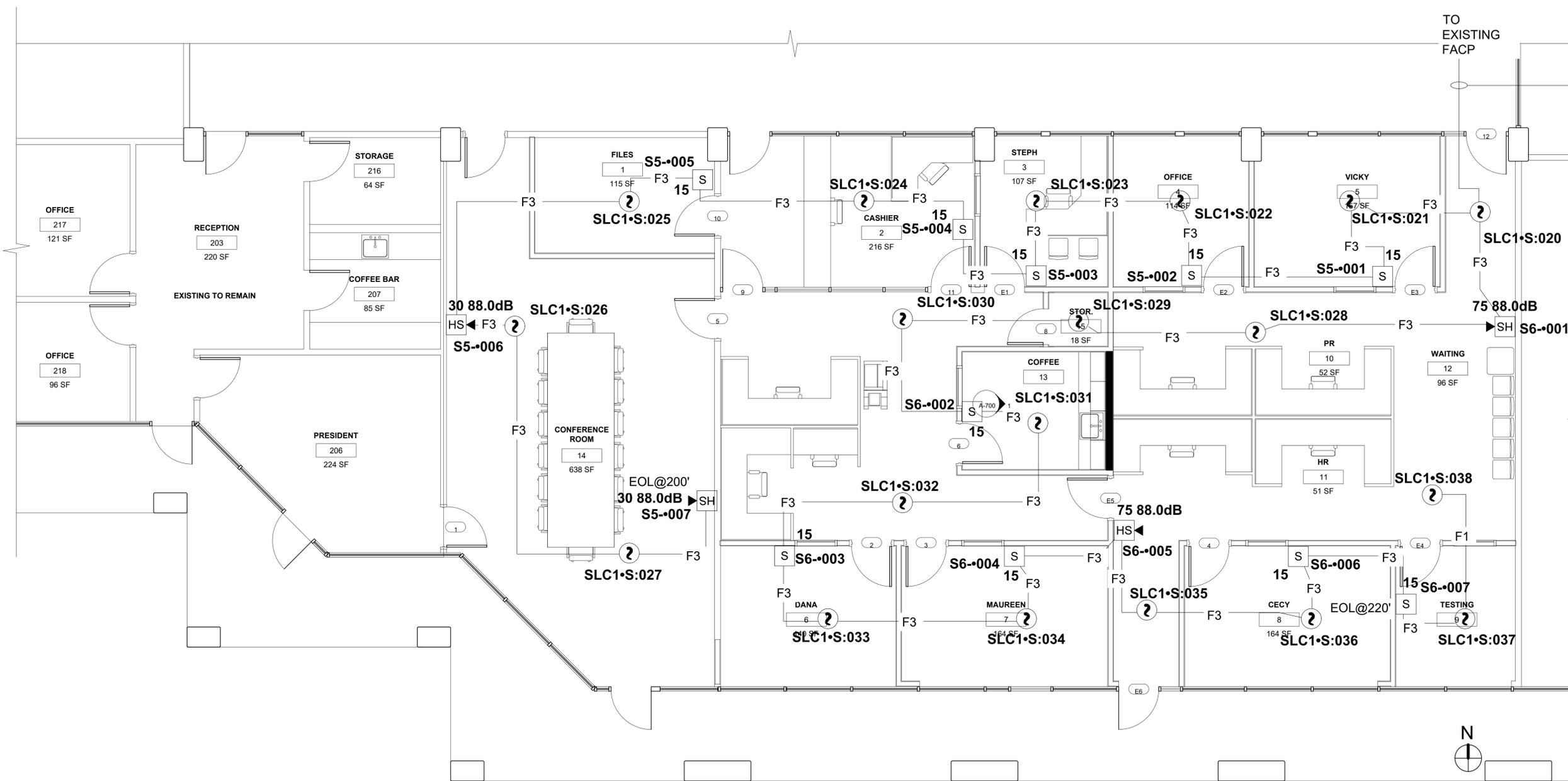
08.31.17

SHEET TITLE

**PROPOSED
FIRE ALARM
FLOOR PLAN**

SHEET NUMBER

FA-003



PROPOSED FIRE ALARM PLAN

1/4" = 1'-0"

GENERAL NOTES

- FIRE ALARM CONTROL PANEL SHALL BE LOCATED AT IN MAIN OFFICE.
- INSTALL 1 SYSTEM RECORD DOCUMENT ENCLOSURE PER NFPA 72 2013 7.7.2.4.
- FINAL DRAWINGS SHALL BE PLACED IN THE RECORD DOCUMENT ENCLOSURE FOR FUTURE REFERENCE.
- INITIATING & NOTIFICATION DEVICES SHALL BE LABELED WITH ADDRESS/CIRCUIT NUMBER. THE E.O.L SHALL BE LABELED AT THE ASSOCIATED DEVICE.
- ANY REQUIRED FIRE SPRINKLER INSTALLATIONS/ MODIFICATIONS NECESSITATED BY THIS CONSTRUCTION MUST BE MADE UNDER FIRE PROTECTION PLANS APPROVED BY THE FIRE DEPARTMENT UNDER A SEPARATE PERMIT
- REMOVE ANY EXISTING NOTIFICATION DEVICES.

CONDUIT

LABEL	WIRES	CONDUIT SIZE	FILL %	NOTES
FA	2(1PR)16AWG, 2#12AWG	3/4" conduit	19.63%	--
F2U	2#14 THHN/THWN	3/4" CONDUIT	3.56%	4
F1	1PR 16AWG	3/4" conduit	7.32%	1
F2	2#12 THHN/THWN	3/4" conduit	4.98%	3
F3	1PR 16AWG, 2#12 THHN/THWN	3/4" conduit	12.30%	1 & 3
F4	4#12 THHN/THWN	3/4" conduit	9.96%	3
F5	1PR 16AWG, 4#12 THHN/THWN	3/4" conduit	17.28%	1 & 3

NOTES:

- 1PR16AWG = WEST PENN #990; INSIDE ONLY.
- 1PR16AWG = WEST PENN #A0CAQ226RDAVC; UNDERGROUND ONLY
- 2# 12 = CES THHN/THWN
- 2# 14 = CES THHN/THWN
- ALL WIRING TO BE LISTED FOR USE AS REQUIRED BY TITLE 24/CEC, ART. 760.
- CONDUIT TO NOT EXCEED 40% FILL PER NEC STANDARDS