VC_M&O_ADMIN_TI_r3_v002.pln - Thursday, October 05, 2017

F:\A_ARCHITECTURE_PROJECTS\VENTURA COLLEGE MAINTENENCE BLDG\VC_M&O_ADMIN_TI_r3_v002.pln

PLUMBING FIXTURES

SEE P SHEETS FOR ADDITIONAL INFORMATION

PLUMBING OCCUPANCY LOAD BASED ON 2016 CALIFORNIA PLUMBING CODE:

OCCUPANCY LOAD FACTORS:
GROUP B = 1/200

FIRST FLOOR:
GROSS BUILDING AREA: 3,696 SF
3,696/ 200 = 18.48
15.91 / 2 = 9.24
TOTAL MEN = 9
TOTAL WOMEN = 9

MINIMUM NUMBER OF PLUMBING FIXTURES
(PER CPC 2016 TABLE 422.1)

MALE (M) & FEMALE (F)

WATER CLOSETS
F (1:1-15)
M (1:1-50)
(1) F-WATER CLOSET REQ'D
(2) F-PROVIDED
(1) M-WATER CLOSET REQ'D
(2) M-PROVIDED

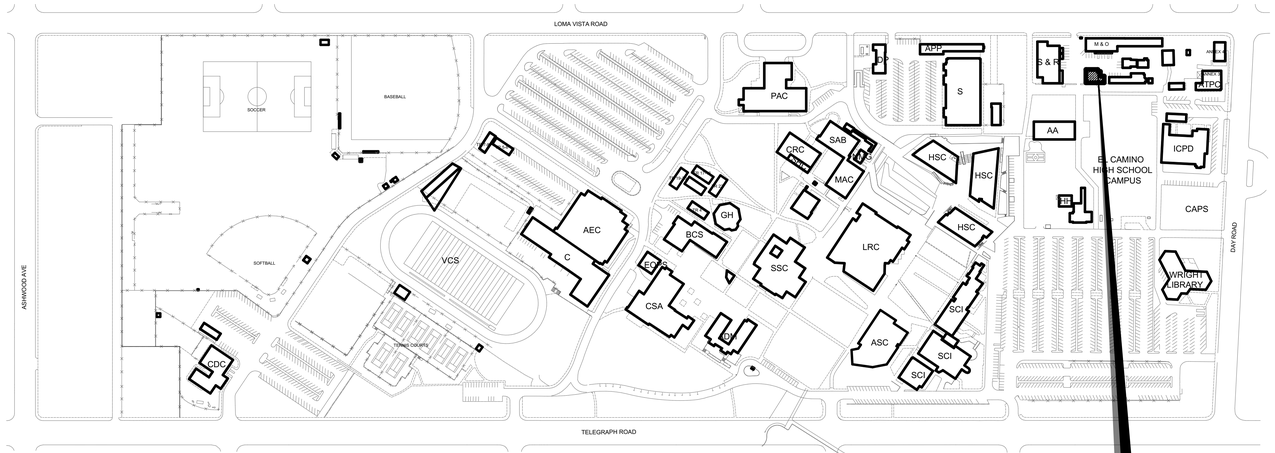
LAVATORIES
F (1:1-50)
M (1:1-75)
(1: MIN. IN EACH WATER CLOSET)
(1) F-LAVATORY REQ'D
(2) F-PROVIDED
(1) M-LAVATORY REQ'D
(3) M-PROVIDED

URINALS
(0: 1-100)
(0) URINALS REQ'D
(2) PROVIDED

ACCESSIBILITY & GREEN REQUIREMENTS:
SEE SHEETS A-002, A-003, A-004, A-005

GENERAL REQUIREMENTS

1. THE DRAWINGS ARE INTENDED ONLY TO CONVEY DESIGN INTENT. THE PLANS AND SPECIFICATIONS SHALL NOT BE CONSIDERED AS EITHER A LIST OF PARTS OR ASSEMBLY INSTRUCTIONS. THE SPECIFICATIONS ARE INCLUDED WITH THESE DRAWINGS AND DEFINE ADDITIONAL WORK TO BE ACCOMPLISHED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW OF ALL OF THE CONTRACT DOCUMENTS, TO EXAMINE THE PROJECT SITE AND TO FAMILIARIZE HIMSELF WITH THE TOTAL SCOPE OF THE WORK AND THE INTENT OF THE CONTRACT DOCUMENTS. IT IS INCUMBENT UPON THE THE CONTRACTOR TO NOTIFY THE ARCHITECT IMMEDIATELY UPON THE DISCOVERY OF ANY DISCREPANCIES OR CONFLICTS IN THE CONTRACT DOCUMENTS.
3. DURING THE BIDDING PROCESS THE CONTRACTOR SHALL OBTAIN PROPER WRITTEN CLARIFICATION OF DISCREPANCIES, CONFLICTS, AND/OR UNCLEAR ITEMS PRIOR TO THE SUBMISSION OF THE BID.
4. DURING CONSTRUCTION, THE CONTRACTOR SHALL NOT PROCEED WITH THE INSTALLATIONS OR APPLICATIONS OF ANY CONSTRUCTION THAT MAY BE AFFECTED BY DISCREPANCIES AND/OR CONFLICTS UNTIL SUCH ISSUES ARE RESOLVED.
5. IT SHALL BE UNDERSTOOD THAT ALL CONTRACTORS AND THEIR PERSONNEL ARE PROPERLY TRAINED AND EXPERIENCED TO PERFORM THE CONSTRUCTION WORK, AND TO OTHERWISE CARRY OUT THE INTENT OF THE WORK INCORPORATED INTO THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS.
6. THE CONTRACT DOCUMENTS CONSIST OF THE THE COMPLETE PLAN DRAWINGS, SPECIFICATIONS, REPORTS, BIDDING INFORMATION AND OTHER INFORMATION PREPARED BY THE ARCHITECT. THE ARCHITECT'S CONSULTANTS, OR CONSULTANTS HIRED BY THE OWNER. IN THE EVENT OF DISCREPANCIES OR CONFLICTS IN THE CONTRACT DOCUMENTS, THE INFORMATION CONTAINED IN THE WRITTEN SPECIFICATIONS SHALL TAKE PRECEDENCE OVER THE DRAWINGS, AND FURTHER, LARGE SCALE DETAIL DRAWINGS SHALL TAKE PRECEDENCE OVER THE SMALLER SCALE DRAWINGS.
7. WHERE ANY SPECIFIED MATERIAL OR PROCESS IS INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS, IT IS FOR THE PURPOSE MAKING CLEAR THE INTENT REQUIRED TO ACCOMPLISH THE SCOPE OF THE PROJECT. THE CONTRACTOR MAY OFFER A SUITABLE MATERIAL OR PROCESS TOGETHER WITH ALL SUPPORTING DOCUMENTATION TO VALIDATE THE EQUIVALENT NATURE TO THE SATISFACTION OF THE ARCHITECT, THE CONSULTING ENGINEERS, AND TO VENTURA COLLEGE.
8. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR TOTAL COORDINATION OF THEIR OWN WORK AND WITH THE WORK OF ALL OTHER TRADES. THE CONTRACTOR SHALL PERSONALLY SUPERVISE AND DIRECT THE PROJECT. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL METHODS OF CONSTRUCTION, TECHNIQUES, SEQUENCES AND PROCEDURES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SAFETY AND PERFORMANCE OF THE WORK, AND FULL COMPLIANCE WITH O.S.H.A., THE U.S. DEPT. OF LABOR, THE STATE OF CALIFORNIA, AND THE VENTURA COUNTY COMMUNITY COLLEGE DISTRICT REGULATIONS.
9. ALL THE WORK SHALL CONFORM WITH THE REQUIREMENTS OF THE 2016 EDITION OF THE CALIFORNIA BUILDING CODE (CBC), AS WELL AS WITH ALL OTHER APPLICABLE FEDERAL REGULATIONS, STATE CODES, LOCAL CODES, ORDINANCES AND REGULATIONS.
10. ONLY THE APPROVED DRAWINGS WITH THE STATEMENT "ISSUED FOR CONSTRUCTION" ON THE COVER SHEET ARE TO BE USED FOR CONSTRUCTION ON THIS PROJECT. CONTRACTORS USING OTHER THAN THE APPROVED DRAWINGS SHALL BE SOLELY RESPONSIBLE FOR SUCH WORK.
11. ALL DIMENSIONS SHOWN ON THE PLAN VIEWS OF THE DRAWINGS ARE TO THE STRUCTURAL FACE OF WALLS, OR TO THE CENTERLINE OF WALLS, UNLESS NOTED OTHERWISE. DIMENSIONS TO FINISH SURFACES SHALL BE NOTED AS SUCH.
12. DO NOT SCALE THE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD, AND SHALL IMMEDIATELY REPORT ANY DISCREPANCIES OR VARIATIONS TO THE ARCHITECT AND TO THE OWNER'S REPRESENTATIVE.
13. THE CONTRACTOR SHALL REPAIR AND REPLACE ALL PROPERTY THAT MAY BE DAMAGED BY WORK UNDER THIS CONTRACT TO THE SATISFACTION OF THE DIRECTOR OF FACILITIES, MAINTENANCE & OPERATIONS OF VENTURA COLLEGE AND THE ARCHITECT. ALL PIPING, CONDUITS, LINES, ETC., THAT MAY BE ENCOUNTERED SHALL BE ADEQUATELY SUPPORTED AND PROTECTED UNTIL PERMANENT SUPPORT AND PROTECTION IS APPROVED, OR UNTIL REMOVAL IS AUTHORIZED.
14. ALL GLAZING SHOWN TO BE INSTALLED IN HAZARDOUS AREAS SHALL COMPLY WITH THE PROVISIONS OF CBC CHAPTER 24.
15. THE CONTRACTOR SHALL VERIFY ALL ELECTRICAL AND MECHANICAL LOADS THAT IS SCHEDULED TO BE GENERATED BY THE TENANT'S EQUIPMENT SHOWN ON THE DRAWINGS AND/OR SPECIFIED PRIOR TO ORDERING THE EQUIPMENT. INFORMATION REGARDING ITEMS THAT MAY AFFECT THE ARCHITECTURAL NATURE OR STRUCTURE OF THE PROJECT OR EXISTING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.
16. ALL FIRE RESISTIVE CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF CBC CHAPTER 7, AND SHALL BE CONSTRUCTED OF LISTED WALL, FLOOR AND CEILING ASSEMBLIES PER CBC CHAPTER 7, SECTION 716, AND TABLES 720.1(1), 720.1(2), 720.1(3), AND ADDITIONAL APPROVED ASSEMBLIES LISTED BY THE "GYPSUM ASSOCIATION DESIGN MANUAL", LATEST EDITION. THESE PROVISIONS INCLUDE LIMITATIONS OF SIZE, TYPE AND INDIVIDUAL FIRE RATING OF THE PENETRATING ITEM OR ASSEMBLY. NOTE THAT ADDITIONAL THROUGH-WALL AND MEMBRANE PENETRATIONS SHALL BE PROVIDED WITH "F" AND "T" FIRE BLOCKING AS DESCRIBED IN CBC CHAPTER 7 FOR THE METHOD OF PENETRATION BEING USED.
17. WALL AND CEILING MATERIALS SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN CBC, TABLE 803.5.
18. ALL STRUCTURAL HOLD-DOWNS SHALL BE SET IN PLACE BY THE USE OF A TEMPLATE PRIOR TO ANY FOUNDATION INSPECTION. SEE THE STRUCTURAL SHEAR SCHEDULE FOR THE SIZES AND SPACING OF ANCHOR BOLTS.
19. THE ARCHITECT OR ENGINEER SHALL PERFORM ON-SITE OBSERVATIONS FOR COMPLIANCE WITH THE PLANS AND SPECIFICATIONS.
20. EACH CONTRACTOR SHALL GUARANTEE, BE RESPONSIBLE FOR, AND MAKE GOOD ANY AND ALL DEFECTS DUE TO FAULTS OF HIS RESPECTIVE TRADE FOR ALL LABOR, MATERIALS, OR LEAKS FOR ONE (1) YEAR MINIMUM COMMENCING UPON ACCEPTANCE OF THE COMPLETED PROJECT BY THE BOTH THE ARCHITECT AND THE DIRECTOR OF FACILITIES, MAINTENANCE AND OPERATIONS OF VENTURA COLLEGE
21. THE CONTRACTOR SHALL FURNISH AND BE RESPONSIBLE FOR ADEQUATE SHORING, BRACING, PERIMETER CHAIN LINK FENCING, AND ALL OTHER PROTECTIVE MEASURES NECESSARY TO SAFELY EXECUTE THE COMPLETE CONSTRUCTION WORK.



AA	AGRICULTURE / CONSTRUCTION TECHNOLOGY			MAC	MEDIA ARTS CENTER		
ADM	ADMINISTRATION	CRC	CREATIVE RESOURCE CENTER	M & O	MAINTENCE / OPERATIONS		
AEC	ATHLETIC EVENTS CENTER (LARGE GYM)	CSA	CAMPUS CENTER - CAFETERIA / STUDENT ACTIVITIES	NMG	NEW MEDIA GALLERY		
ANNEX 3	CONTINUING EDUCATION CLASSROOMS	DP	BUSINESS / ESL	PAC	PERFORMING ARTS CENTER		
ANNEX 4	CONTINUING EDUCATION CLASSROOMS	EOPS	EOPS	S	AUTOMOTIVE / MANUFACTURING / WELDING SHOPS	TR 4	MULTI-MEDIA / GRAPHICS
APP	APPRENTICESHIP PROGRAMS	GH	GUTHRIE HALL	SAB	STUDIO ARTS BUILDING	TR 5 - 8	RELOCATABLE CLASSROOMS (NEAR BASE BALL FIELD)
ASC	APPLIED SCIENCES CENTER	HH	HEAD HOUSE	SCI	SCIENCES / MATHEMATICS	TR 12 - 15	RELOCATABLE CLASSROOMS (NEAR LRC / SSC / MAC)
ATPC	ALTERNATE TEXT PRODUCTION CENTER	HSC	HEALTH / SCIENCE CLASSROOMS	SHC	STUDENT HEALTH / PSYCHOLOGICAL SERVICES	TR 16	RELOCATABLE NURSING SKILLS LAB (NEAR LRC / SSC / MAC)
BCS	BOOKSTORE / CAMPUS SERVICES	ICPD	INST. FOR COMMUNITY AND PROFESSIONAL DEVELOPMENT	SSC	STUDENT SERVICES CENTER	TR 17 - 22	RELOCATABLE PERFORMING ARTS (NEAR PAC)
C	PHYSICAL EDUCATION (SMALL GYM)	LRC	LIBRARY / LEARNING RESOURCE CENTER	S & R	SHIPPING / RECEIVING	VCS	VENTURA COLLEGE SPORTSPLEX
CDC	CHILD DEVELOPMENT CENTER						

V E N T U R A C O L L E G E

INTERIOR TENANT IMPROVEMENT
MAINTENANCE & OPERATIONS - M BUILDING

VENTURA COUNTY COMMUNITY COLLEGE DISTRICT
DEPARTMENT OF MAINTENANCE & OPERATIONS
Located at:
4900 Loma Vista Road, Ventura, CA 93003

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A-005	ACCESIBILITY TO PUBLIC BLDGS: ADA NOTES, DIAGRAMS & DETAILS
A-006	TYPICAL DISABLED ACCESS RESTROOM DETAILS
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E1.40	POWER & LOW VOLTAGE DEMOLITION PLAN
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E5.00	FIRE ALARM DETAILS
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E5.02	FIRE ALARM SYSTEM - EXISTING CONDITION
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M-2.0	MECHANICAL DEMOLITION FLOOR PLAN
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PLUMBING DRAWINGS

P-1.0	PLUMBING NOTES & SCHEDULES
P-2.0	PLUMBING DEMO FLOOR PLAN
P-3.0	PLUMBING FLOOR PLAN
P-4.0	PLUMBING DETAILS

FIRE PROTECTION

FP-1.0	FIRE SPRINKLER T.I. PLAN

REVISIONS / DESCRIPTION	DATE	BY
GENERAL UPDATE PER JM REVIEW	AUG 11, 2017	SES REC
ADD PR RELATED DWGS: ADA + IE FINAL CONSTRUCTION SUBMITTAL	AUG 31, 2017	SES REC
1		
2		
3		
4		

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ROY E COLBERT
ARCHITECTURE
PLANNING
DESIGN

1997 E. MAIN STREET
VENTURA, CA 93001
805 / 650 . 9590 PH
805 / 650 . 9589 FX

rcolb@sbcglobal.net

CALIFORNIA C12050
N.C.A.R.B.

ISSUED FOR CONSTRUCTION

LICENSED ARCHITECT ROY E. COLBERT LICENSE C12050 RENEWS 10-31-2017 STATE OF CALIFORNIA

This project has been designed by me, or under my direct supervision.

VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

VENTURA COLLEGE
4667 Telegraph Road
Ventura, CA 93003

DEPARTMENT OF MAINTENANCE & OPERATIONS
4900 Loma Vista Road
Ventura, CA 93003

PROJECT INFORMATION

BUILDING ADDRESS:	**4900 LOMA VISTA ROAD, VENTURA, CA 93003**
PARCEL NUMBER:	**078-0-050-360**
ZONING:	**R-1-7**
CONSTRUCTION TYPE:	**V-B (SPRINKLERED)**
OCCUPANCY TYPE:	**B**
OCCUPANCY LOAD: (SEE SHEET A-200)	**TOTAL = 57**
GROSS BLDG AREA:	**3,696 S.F.**

REVIEW AGENCIES

CITY of VENTURA:

PLANNING DIVISION COUNTER:
ROOM 117, VENTURA CITY HALL
501 POLI STREET
VENTURA, CALIF. 93001
(805) 654-7893

UTILITIES:
(805) 667-6500

FIRE:
(805) 339-4300

INSPECTION SERVICES COUNTER (BUILDING and SAFETY):
(805) 654-7869

COMMUNITY DEVELOPMENT:
(805) 654-7811

VICINITY MAP

PROJECT LOCATION

CODE REQUIREMENTS

APPLICABLE
REGULATORY CODES (NON EXCLUSIVE)

PLANNING and ZONING CODE:
CALIF. BUILDING CODE: ---------- 2016 EDITION
CALIF. MECHANICAL CODE: ---------- 2016 EDITION
CALIF. PLUMBING CODE: ---------- 2016 EDITION
CALIF. ELECTRICAL CODE: ---------- 2016 EDITION
CALIF. FIRE CODE: ---------- 2016 EDITION
CALIF. ENERGY CODE ---------- 2016 EDITION
CALIF. GREEN BLDG. CODE ---------- 2016 EDITION

GENERAL BUILDING DATA & CODE OCCUPANCY CLASSIFICATIONS

AMERICAN WITH DISABILITIES ACT (ADA):
VENTURA CURRENT SUPPLEMENTS to ABOVE as APPLICABLE.
ZONING: ---------- CITY OF VENTURA: R-1-7
PART OF VENTURA COUNTY COMMUNITY COLLEGE DISTRICT MASTER PLAN
OCCUPANCY GROUPS: ---------- "B" BUSINESS OFFICE
PRIMARY USE: ---------- CORPORATE BUSINESS (OFFICE)

CONSTRUCTION: ---------- TYPE V-B
MAX. HEIGHT and STORIES: ---------- N/A
FIRE PROTECTION SYSTEM: ---------- SPRINKLERED
SEISMIC DESIGN CATEGORY: ---------- E
THIS PROJECT AND ALL CONSTRUCTION SHALL COMPLY WITH ALL CODES OF THE CITY OF VENTURA FIRE DEPT.

SCOPE OF PROJECT - BRIEF DESCRIPTION:
THIS PROJECT INCLUDES MINOR TENANT IMPROVEMENTS TO INTERIOR OF EXISTING, NON-LOAD BEARING PARTITION WALLS . REMOVE EXISTING PLYWOOD ON SELECT EXISTING INTERIOR WALLS AND CREATE NEW OFFICE SPACE LAYOUT FOR BUSINESS USE. THE EXTERIOR WALLS AND WINDOWS ARE TO REMAIN IN TACT AND REQUIRE NO STRUCTURAL MODIFICATIONS. IMPROVEMENT INCLUDES THE ADDITION OF A MENS AND WOMENS SHOWER ROOM, BOTH AS ACCESSIBLE. ADDITION OF NEW LUNCH ROOM. UPDATE EXISTING FINISHES AS NEEDED. REMOVE/REPLACE LIGHT FIXTURES & HVAC TO NEW LAYOUT. (NO EXTERIOR CHANGES TO BUILDING FOOTPRINT. NO STRUCTURAL CHANGES TO THE BUILDING)

OWNER & CONSULTANTS

OWNER:
Ventura County
Community College District
255 W. Stanley Avenue, Suite 150
Ventura, CA 93001

ARCHITECT:
Roy E. Colbert Architect
1997 E. Main Street
Ventura, CA 93001
805-658-2344

ELECTRICAL ENGINEERING:
Lucci & Associates
3251 Carte Malpaso #511
Camarillo, CA 93012
Ken Lucci
(805) 389-6520 x230 Office

MECHANICAL / PLMB ENGINEER:
A/E GROUP
838 East Front Street
Ventura, CA 93001
Hugh McTernan
805.653.1722

FIRE PROTECTION ENGINEER:
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Collings & Associates LLC
260 Maple Court, Suite 241
Ventura, CA. 93003
(805) 658-0003
jcollings@collingsandassociates.com

PROJECT DIRECTORY

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jcollings@collingsandassociates.com

VENTURA COLLEGE
MAINTENENCE & OPERATIONS
INTERIOR TENANT IMPROVEMENT
M BUILDING

TYP. ARCH. SYMBOLS

DETAIL
X / A-X — DRAWING NUMBER / SHEET NUMBER

ENLARGED DETAIL
X / A-X — DRAWING NUMBER / SHEET NUMBER

DOOR and WINDOW SYMBOLS
D1 — DOOR SYMBOL
W1 — WINDOW SYMBOL

KEY NOTE SYMBOL
#

ABBREVIATIONS

A.B.	ANCHOR BOLT	COL	COLUMN	FIN FLR	FINISH FLOOR	LTWT	LIGHT WEIGHT	R.O.W.	RIGHT OF WAY
ADJ.	ADJACENT	CONC.	CONCRETE	FLUOR.	FLUORESCENT	LIN FT, L.F.	LINEAL FOOT	RF	ROOF
ASS'Y.	ASSEMBLY	CMU	CONCRETE MASONRY UNIT (BLOCK)	FTG.	FOOTING	(N)	NEW	R. O.	ROUGH OPENING
ALT.	ALTERNATE	CONT	CONTINUOUS	FBO	FURNISHED BY OTHERS	NWF	NATURAL WOOD FINISH	SECT.	SECTION
AL.	ALUMINUM	CU. FT.	CUBIC FEET	FUT.	FUTURE	N .I .C.	NOT IN CONTRACT	SHT	SHEET
A/C	AIR CONDITIONING	CFM	CUBIC FEET PER MINUTE	GA.	GAGE, GAUGE	N.T.S.	NOT TO SCALE	S.H.	SINGLE HUNG
ANNOD.	ANNODIZED	DEMO	DEMOLISH, DEMOLITION	GALV., G.I.	GALVANIZED	O. C.	ON CENTER	SIM	SIMILAR
ARCH('L)	ARCHITECT(URAL)	DIA.	DIAMETER	GL.	GLASS, GLAZING	OPNG.	OPENING	S. C.	SOLID CORE
AUTO.	AUTOMATIC	DIM	DIMENSION	GB	GLASS BLOCK	OPP	OPPOSITE	SPEC(S)	SPECIFICATION(S)
B.M.	BENCHMARK	DISP	DISPENSER	HDBD.	HARD BOARD	O.D.	OUTSIDE DIAMETER	SQ. FT.	SQUARE FOOT
BTWN.	BETWEEN	DIV	DIVIDE, DIVISION	HWD	HARDWOOD	O'HEAD	OVERHEAD	T.S.	TUBE SECTION (STEEL)
BTTM.	BOTTOM	D.H.	DOUBLE HUNG	HD	HEAVY DUTY	PH	PHONE	STL.	STEEL
BLDG.	BUILDING	D.S.	DOWN SPOUT	HT.	HEIGHT	PTN	PARTITION	S/S	STAINLESS STEEL
B.U.R.	BUILT UP ROOF	D	DEPTH	HC	HOLLOW CORE	PLAS LAM	PLASTIC LAMINATE	STD.	STANDARD
CABT	CABINET	DWG	DRAWING	HM	HOLLOW METAL	PL.	PLATE. PROPERTY LINE	SYS.	SYSTEM
CSMNT.	CASEMENT	D.F.	DOUGLAS FIR	HORIZ	HORIZONTAL	PWD	PLYWOOD	THK	THICKNESS
CATV	CABLE TELEVISION	(E)	EXISTING	HB	HOSE BIBB	PTDF	PRESSURE TREATED DOUGLAS FIR	T&G.	TONGUE AND GROOVE
C.I.	CAST IRON	ENCL	ENCLOS(UR)E	I.D.	INSIDE DIAMETER	PSF	POUNDS PER SQUARE FOOT	TYP	TYPICAL
CLG	CEILING	EQ	EQUAL	INSUL	INSULATION	PSI.	POUNDS PER SQUARE INCH	VERT	VERTICAL
CLG HT	CEILING HEIGHT	EXT	EXTERIOR	INT	INTERIOR	RWD	REDWOOD	WNDO.	WINDOW
C.T.	CERAMIC TILE	FOF	FACE OF FINISH	L	LENGTH	R/A	RETURN AIR	W. H.	WALL HUNG
CLR	CLEAR(ANCE)	FOM	FACE OF MASONRY	LT	LIGHT	REV.	REVISION, REVISED	W W M	WELDED WIRE MESH
		FOS	FACE OF STUD					WD	WOOD

FIRE DEPARTMENT NOTES

1. PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED FOR THIS STRUCTURE. FIRE EXTINGUISHER SIZE AND LOCATION TO BE DETERMINED BY THE FIRE DEPARTMENT.
2. THE STRUCTURE SHALL BE IN COMPLIANCE WITH THE APPLICABLE SECTIONS OF THE UNIFORM FIRE CODE AND CALIFORNIA CODE OF REGULATIONS, TITLE 19.
3. INSPECTION FOR COMPLIANCE WITH THESE CONDITIONS AND GENERAL FIRE SAFETY WILL BE REQUIRED PRIOR TO OCCUPANCY.
4. PROJECT AND USE MUST MEET ALL APPLICABLE REQUIREMENTS OF THE STATE AND LOCAL REGULATIONS, CODES, AND ORDINANCES RELATED TO FIRE PROTECTION AND HAZARDOUS MATERIALS THAT ARE ADOPTED AND IN EFFECT AT THE TIME OF ISSUANCE OF ANY BUILDING OR FIRE PROTECTION SYSTEM PERMIT FOR THE PROJECT AND/OR INITIATION OF THE USE.
5. ENTIRE BUILDING TO BE FULLY FIRE SPRINKLERED, U.N.O., AND WITH FIRE AUDIBLE FIRE ALARM SYSTEM @ CORRIDORS, UNDER SEPARATE PLANS AND PERMITS, SUBMITTED TO AGENCIES BY FIRE SYSTEMS CONTRACTOR

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS

COVER SHEET

SHEET NAME : COVER SHEET
DATE : 10 JULY 2017
1" ACTUAL — IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THE DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ACTUAL MEASUREMENT OF ALL LABELED SCALES.
SCALE: AS SHOWN — DRAWN BY: SES
ARCHITECT PROJECT #: C16- 013 — VCCCD PROJECT #: P 0107586
SHEET NUMBER : A-001 — OF SHEETS

2016 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 1

CHAPTER 5
NONRESIDENTIAL MANDATORY MEASURES

Division 5.1 – PLANNING AND DESIGN

SECTION 5.101
GENERAL

5.101.1 Scope. The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

SECTION 5.102
DEFINITIONS

5.102.1 Definitions. The following terms are defined in Chapter 2.

CUTOFF LUMINAIRES.

LOW-EMITTING AND FUEL EFFICIENT VEHICLES.

NEIGHBORHOOD ELECTRIC VEHICLE (NEV).

TENANT-OCCUPANTS.

VANPOOL VEHICLE.

ZEV.

SECTION 5.103
SITE SELECTION
(Reserved)

SECTION 5.104
SITE PRESERVATION
(Reserved)

SECTION 5.105
DECONSTRUCTION AND REUSE OF EXISTING STRUCTURES
(Reserved)

SECTION 5.106
SITE DEVELOPMENT

5.106.1 Storm water pollution prevention. Newly constructed projects and additions which disturb less than one acre of land shall prevent the pollution of stormwater runoff from the construction activities through one or more of the following measures:

5.106.1.1 Local ordinance. Comply with a lawfully enacted stormwater management and/or erosion control ordinance.

5.106.1.2 Best management practices (BMP). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMP.

1. Soil loss BMP that should be considered for implementation as approprate for each project include, but are not limited to, the following:
   a. Scheduling construction activity.
   b. Preservation of natural features, vegetation and soil.
   c. Drainage swales or lined ditches to control stormwater flow.
   d. Mulching or hydroseeding to stabilize disturbed soils.
   e. Erosion control to protect slopes.
   f. Protection of storm drain inlets (gravel bags or catch basin inserts).
   g. Perimeter sediment control (perimeter silt fence, fiber rolls).
   h. Sediment trap or sediment basin to retain sediment on site.
   i. Stabilized construction exits.
   j. Wind erosion control.
   k. Other soil loss BMP acceptable to the enforcing agency.
2. Good housekeeping BMP to manage construction equipment, materials and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Material handling and waste management.
   b. Building materials stockpile management.
   c. Management of washout areas (concrete, paints, stucco, etc.).
   d. Control of vehicle/equipment fueling to contractor's staging area.
   e. Vehicle and equipment cleaning performed off site.
   f. Spill prevention and control.
   g. Other housekeeping BMP acceptable to the enforcing agency.

5.106.4 Bicycle parking. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2.

5.106.4.1 Bicycle parking. [BSC-CG] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter.

5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5 percent of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.

Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.

5.106.4.1.2 Long-term bicycle parking. For new buildings with 10 or more tenant-occupants or for additions or alterations that add 10 or more tenant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one space. Acceptable parking facilities shall be convenient from the street and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

Note: Additional information on recommended bicycle accommodtions may be obtained from Sacramento Area Bicycle Advocates.

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2.

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.

5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

5.106.5.2 Designated parking for clean air vehicles. In new projects or additions or alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as follows:

TABLE 5.106.5.2

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0–9	0
10–25	1
26–50	3
51–75	6
76–100	8
101–150	11
151–200	16
201 and over	At least 8 percent of total

5.106.5.2.1 Parking stall marking. Paint, in the paint used for stall striping, the following characters such that the lower edge of the last word aligns with the end of the stall striping and is visible beneath a parked vehicle:

CLEAN AIR/

VANPOOL/EV

Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be considered eligible for designated parking spaces.

5.106.5.3 Electric vehicle (EV) charging. [N] Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE). When EVSE(s) is/are installed, it shall be in accordance with the *California Building Code*, the *California Electrical Code* and as follows:

5.106.5.3.1 Single charging space requirements. [N] When only a single charging space is required per Table 5.106.5.3.3, a raceway is required to be installed at the time of construction and shall be installed in accordance with the *California Electrical Code.* Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. A listed raceway capable of accommodating a 208/240-volt dedicated branch circuit.
3. The raceway shall not be less than trade size 1."
4. The raceway shall originate at a service panel or a subpanel serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and into a listed suitable cabinet, box, enclosure or equivalent.
5. The service panel or subpanel shall have sufficientcapacity to accommodate a minimum 40-ampere dedicated branch circuit for the future installation of the EVSE.

5.106.5.3.2 Multiple charging space requirements. [N] When multiple charging spaces are required per Table 5.106.5.3.3 raceway(s) is/are required to be installed at the time of construction and shall be installed in accordance with the *California Electrical Code.* Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. The raceway(s) shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and into listed suitable cabinet(s), box(es), enclosure(s) or equivalent.
3. Plan design shall be based upon 40-ampere minimum branch circuits.
4. Electrical calculations shall substantiate the design of the electrical system, to include the rating of equipment and any on-site distribution transformers and have sufficient capacity to simultaneously charge all required EVs at its full rated amperage.
5. The service panel or subpanel(s) shall have sufficient capacity to accommodate the required number of dedicated branch circuit(s) for the future installation of the EVSE.

5.106.5.3.3 EV charging space calculation. [N] Table 5.106.5.3.3 shall be used to determine if single or multiple charging space requirements apply for the future installation of EVSE.

Exceptions: On a case-by-case basis where the local enforcing agency has determined EV charging and infrastructure is not feasible based upon one or more of the following conditions:
1. Where there is insufficient electrical supply.
2. Where there is evidence suitable to the local enforcing agency substatiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

TABLE 5.106.5.3.3

TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CHARGING SPACES
0-9	0
10-25	1
26-50	2
51-75	4
76-100	5
101-150	7
151-200	10
201 and over	6 percent of total[1]

1. Calculation for spaces shall be rounded up to the nearest whole number.

5.106.5.3.4 [N] Identification. The service panel or subpanel(s) circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

5.106.5.3.5 [N] Future charging spaces qualify as designated parking as described in Section 5.106.5.2 Designated parking for clean air vehicles.

Notes:
1. The California Department of Transportation adopts and publishes the California Manual on Uniform Traffic Control Devices (California MUTCD) to provide uniform standards and specifications for all official traffic control devices in California. Zero Emission Vehicle Signs and Pavement Markings can be found in the New Policies & Directives number 13-01. www.dot.ca.gov/hq/traffops/policy/13-01.pdf.
2. See Vehicle Code Section 22511 for EV charging spaces signage in off-street parking facilities and for use of EV charging spaces.
3. The Governor's Office of Planning and Research published a Zero-Emission Vehicle Community Readiness Guidebook which provides helpful information for local governments, residents and businesses. www.opr.ca.gov/docs/ZEV_Guidebook.pdf.

5.106.8 Light pollution reduction. [N] Outdoor lighting systems shall be designed and installed to comply with the following:
1. The minimum requirements in the *California Energy Code* for Lighting Zones 1-4 as defined in Chapter 10 of the *California Administrative Code*; and
2. Backlight, Uplight and Glare (BUG) ratings as defined in IES TM-15-11; and
3. Allowable BUG ratings not exceeding those shown in Table 5.106.8, or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]
1. Luminaires that qualify as exceptions in Section 140.7 of the *California Energy Code*.
2. Emergency lighting.
3. Building facade meeting the requirements in Table 140.7-B of the *California Energy Code*, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.

Note: [N] See also *California Building Code*, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.

5.106.10 Grading and paving. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:
1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.

Exception: Additions and alterations not altering the drainage path.

TABLE 5.106.8 [N]
MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS[1,2]

ALLOWABLE RATING	LIGHTING ZONE 1	LIGHTING ZONE 2	LIGHTING ZONE 3	LIGHTING ZONE 4
Maximum Allowable Backlight Rating[3]				
Luminaire greater than 2 mounting heights (MH) from property line	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1 – 2 MH from property line	B2	B3	B4	B4
Luminaire back hemisphere is 0.5 – 1 MH from property line	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	B0	B0	B1	B2
Maximum Allowable Uplight Rating				
For area lighting[4]	U0	U0	U0	U0
For all other outdoor lighting, including decorative luminaires	U1	U2	U3	U4
Maximum Allowable Glare Rating[5]				
Luminaire greater than 2 MH from property line	G1	G2	G3	G4
Luminaire front hemisphere is 1 – 2 MH from property line	G0	G1	G1	G2
Luminaire front hemisphere is 0.5 – 1 MH from property line	G0	G0	G1	G1
Luminaire back hemisphere is less than 0.5 MH from property line	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the *California Energy Code* and Chapter 10 of the *California Administrative Code*.
2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.
3. If the nearest property line is less than or equal to two mounting heights from the back hemisphere of the luminaire distribution, the applicable reduced Backlight rating shall be met.
4. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaires located in these areas shall meet *U*-value limits for "all other outdoor lighting."
5. If the nearest property line is less than or equal to two mounting heights from the front hemisphere of the luminaire distribution, the applicable reduced Glare rating shall be met.

CHAPTER 5
NONRESIDENTIAL MANDATORY MEASURES

Division 5.2 – ENERGY EFFICIENCY

SECTION 5.201
GENERAL

5.201.1 Scope [BSC-CG]. ***California Energy Code*** **[DSASS].** For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

CHAPTER 5
NONRESIDENTIAL MANDATORY MEASURES

Division 5.3 – WATER EFFICIENCY AND CONSERVATION SECTION

5.301
GENERAL

5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water used indoors, outdoors and in wastewater conveyance.

SECTION 5.302
DEFINITIONS

5.302.1 Definitions. The following terms are defined in Chapter 2.

EVAPOTRANSPIRATION ADJUSTMENT FACTOR

(ETAF) [DSA-SS]

FOOTPRINT AREA [DSA-SS]

GRAYWATER.

METERING FAUCET

MODEL WATER EFFICIENT LANDSCAPE

ORDINANCE (MWELO).

POTABLE WATER.

RECYCLED WATER.

SPECIAL LANDSCAPE AREA (SLA). [DSA-SS]

SUBMETER.

SECTION 5.303
INDOOR WATER USE

5.303.1 Meters. Separate submeters or metering devices shall be installed for the uses described in Sections 5.303.1.1 and 5.303.1.2.

5.303.1.1 New buildings or additions in excess of 50,000 square feet. Separate submeters shall be installed as follows:
1. For each individual leased, rented, or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.
2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:
   a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).
   b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).
   c. Steam and hot-water boilers with energy input more than 500,000 Btu/h (147 kW).

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

5.303.2 Reserved.

5.303.3 Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

5.303.3.1 Water closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type Toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

5.303.3.2 Urinals.

5.303.3.2.1 Wall-mounted urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

5.303.3.2.2 Floor-mounted urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.

5.303.3.3 Showerheads.

5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 2.0 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than oneshowerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 2.0 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.

Note: A hand-held shower shall be considered a showerhead.

5.303.3.4 Faucets and fountains.

5.303.3.4.1 Nonresidential lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.

5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 [rim space (inches) at 60 psi].

5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle.

5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per cycle/20 [rim space (inches) at 60 psi].

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

5.303.4 Commercial kitchen equipment.

5.303.4.1 Food waste disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/noload) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.

Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation.

5.303.5 Areas of addition or alteration. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Sections 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.

5.303.6 Standards for plumbing fixtures and fittings. Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code* and in Chapter 6 of this code.

SECTION 5.304
OUTDOOR WATER USE

5.304.1 Scope. The provisions of Section 5.304, Outdoor Water Use reference the mandatory Model Water Efficiency Landscape Ordinance (MWELO) contained within Chapter 2.7, Division 2, Title 23, *California Code of Regulations*.

5.304.2 Outdoor water use in landscape areas equal to or greater than 500 square feet. When water is used for outdoor irrigation for new construction projects with an aggregate landscape area equal to or greater than 500 square feet requiring a building or landscape permit, plan check or design review, one of the following shall apply:
1. A local water efficient landscape ordinance that is, based on evidence in the record, at least as effective in conserving water as the updated model ordinance adopted by the Department of Water Resources (DWR) per Government Code Section 65595 (c).
2. The California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, *California Code of Regulations*.

5.304.3 Outdoor water use in rehabilitated landscape projects equal to or greater than 2,500 square feet. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 square feet requiring a building or landscape permit, plan check, or design review shall comply with Section 5.304.2, Item 1 or 2.

5.304.4 Outdoor water use in landscape areas of 2,500 square feet or less. Any project with an aggregate landscape area of 2,500 square feet or less may comply with the performance requirements of MWELO or conform to the prescriptive compliance measures contained in MWELO's Appendix D.

5.304.5 Graywater or rainwater use in landscape areas. For projects using treated or untreated graywater or rainwater captured on site, any lot or parcel within the project that has less than 2,500 square feet of landscape and meets the lot or parcel's landscape water requirement (Estimated Total Water Use) entirely with treated or untreated graywater or through stored rainwater captured on site is subject only to Appendix D Section (5).

Notes:
1. DWR's Model Water Efficient Landscape Ordinance, definitions and supporting documents are available at the following link: http://water.ca.gov/wateruseefficiency/landscapeordinance/
2. A water budget calculator is available at the following link: http://water.ca.gov/wateruseefficiency/landscapeordinance/
3. The MWELO prescriptive compliance measure Appendix D may be found at the following link: http://water.ca.gov/wateruseefficiency/landscapeordinance/. In addition, a copy of MWELO Appendix D may be found in Chapter 8 of this code.

5.304.6 Outdoor potable water use in landscape areas [DSA-SS]. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, *California Code of Regulations*, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

5.304.6.1 Newly constructed landscapes. [DSA-SS] New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

5.304.6.2 Rehabilitated landscapes. [DSA-SS] Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

SECTION 5.305
WATER REUSE SYSTEMS
(Reserved)

CHAPTER 5
NONRESIDENTIAL MANDATORY MEASURES

Division 5.4 – MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.401
GENERAL

5.401.1 Scope. The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting.

SECTION 5.402
DEFINITIONS

5.402.1 Definitions. The following terms are defined in Chapter 2.

ADJUST.

BALANCE.

BUILDING COMMISSIONING.

ORGANIC WASTE.

TEST.

SECTION 5.403
FOUNDATION SYSTEMS
(Reserved)

SECTION 5.404
EFFICIENT FRAMING TECHNIQUES
(Reserved)

SECTION 5.405
MATERIAL SOURCES
(Reserved)

SECTION 5.406
ENHANCED DURABILITY AND REDUCED MAINTENANCE
(Reserved)

SECTION 5.407
WATER RESISTANCE AND MOISTURE MANAGEMENT

5.407.1 Weather protection. Provide a weather-resistant exterior wall and foundation envelope as required by *California Building Code* Section 1403.2 (Weather Protection) and *California Energy Code* Section 150, (Mandatory Features and Devices), manufacturer's installation instructions or local ordinance, whichever is more stringent.

5.407.2 Moisture control. Employ moisture control measures by the following methods.

5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.

5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:

5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:
1. An installed awning at least 4 feet in depth.
2. The door is protected by a roof overhang at least 4 feet in depth.
3. The door is recessed at least 4 feet.
4. Other methods which provide equivalent protection.

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.

SECTION 5.408
CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

5.408.1 Construction waste management. Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.

5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolitionwaste management ordinance that is more stringent, submit a construction waste management plan that
1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

5.408.1.2 Waste management company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

Exceptions to Sections 5.408.1.1 and 5.408.1.2:
1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65 percent minimum requirement as approved by the enforcing agency.

5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1 through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

Notes:
1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at http://www.bsc.ca.gov/Home/CALGreen.aspx may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris (C&D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

5.408.2 Universal waste. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.

Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/LawsRegsPolicies/Regs/upload/OEARA_REGS_UWR_FinalText.pdf

5.408.3 Excavated soil and land clearing debris. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

Exception: Reuse, either on-or off-site, of vegetation or soil contaminated by disease or pest infestation.

Notes:
1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material. (www.cdfa.ca.gov/exec/county/county_contacts.html)
2. For a map of known pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)

SECTION 5.409
LIFE CYCLE ASSESSMENT
(Reserved)

SECTION 5.410
BUILDING MAINTENANCE AND OPERATION

5.410.1 Recycling by occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.

5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30 percent or more in floor area, shall provide recycling areas on site.

Exception: Additions within a tenant space resulting in less than a 30-percent increase in the tenant space floor area.

5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the *Public Resources Code*. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.

5.410.2 Commissioning. [N] For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. All occupancies other than I-occupancies and L-occupancies shall comply with the *California Energy Code* as prescribed in *California Energy Code* Section 120.8. For I-occupancies that are not regulated by OSHPD or for I-occupancies and Loccupancies that are not regulated by the *California Energy Code* Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply. Commissioning requirements shall include:
1. Owner's or owner representative's project requirements.
2. Basis of design.
3. Commissioning measures shown in the construction documents.
4. Commissioning plan.
5. Functional performance testing.
6. Documentation and training.
7. Commissioning report.

Exceptions:
1. Unconditioned warehouses of any size.
2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.
4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.

Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and or air conditioning.

Informational Notes:
1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 does not certify individuals to conduct functional performance tests or to adjust and balance systems.
2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the *California Energy Code.*

5.410.2.1 Owner's or Owner representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:
1. Environmental and sustainability goals.
2. Energy efficiency goals.
3. Indoor environmental quality requirements.
4. Project program, including facility functions and hours of operation, and need for after hours operation.
5. Equipment and systems expectations.
6. Building occupant and operation and maintenance (O&M) personnel expectations.

5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:
1. Heating, ventilation, air conditioning [HVAC) systems and controls.
2. Indoor lighting system and controls.
3. Water heating system.
4. Renewable energy systems.
5. Landscape irrigation systems.
6. Water reuse systems.

5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:
1. General project information.
2. Commissioning goals.
3. Systems to be commissioned. Plans to test systems and components shall include:
   a. An explanation of the original design intent.
   b. Equipment and systems to be tested, including the extent of tests.
   c. Functions to be tested.
   d. Conditions under which the test shall be performed.
   e. Measurable criteria for acceptable performance.
4. Commissioning team information.
5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system- tosystem interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.

5.410.2.5 Documentation and training. [N] A systems manual and systems operations training are required, including Occupational Safety and Health Act (OSHA) requirements in *California Code of Regulations* (CCR), Title 8, Section 5142, and other related regulations.

5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:
1. Site information, including facility description, history and current requirements.
2. Site contact information.
3. Basic operations and maintenance, including general site operating

THIS PLAN IS BASED UPON DATACOMPILED AND FURNISHED BY OTHERS

REVISIONS / DESCRIPTION	DATE	BY
GENERAL UPDATE PER JM REVIEW	AUG 11, 2017	SES REC
ADD RR RELATED DWGS: ADA + IE FINAL CONSTRUCTION SUBMITTAL	AUG 31, 2017	SES REC
1		
2		
3		
4		

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NO. C12050
RENEWS 10–31–2017
STATE OF CALIFORNIA

This project has been designed by me, or under my direct supervision.

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Ventura, CA 93003

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VENTURA COLLEGE
MAINTENENCE & OPERATIONS
INTERIOR TENANT IMPROVEMENT
M BUILDING

2016 CALIFORNIA GREEN NON-RESIDENTIAL MANDATORY MEASURES

SHEET NAME :

10 JULY 2017

DATE :

1" ACTUAL

IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ACTUAL MEASUREMENT OF ALL LABELED SCALES.

AS SHOWN — SCALE:
SES — DRAWN BY:

C16- 013 — ARCHITECT PROJECT #:
P 0107586 — VCCCD PROJECT #:

A-002

SHEET NUMBER : OF SHEETS

2016 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 2

procedures, basic troubleshooting, recommended maintenance requirements, site events log.
4. Major systems.
5. Site equipment inventory and maintenance notes.
6. A copy of verifications required by the enforcing agency or this code.
7. Other resources and documentation, if applicable.

5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:
1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).
2. Review and demonstration of servicing/preventive maintenance.
3. Review of the information in the systems manual.
4. Review of the record drawings on the system/equipment.

5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.

5.410.4 Testing and adjusting. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

5.410.4.1 (**Reserved**)

5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include, as applicable to the project:
1. HVAC systems and controls.
2. Indoor and outdoor lighting and controls.
3. Water heating systems.
4. Renewable energy systems.
5. Landscape irrigation systems.
6. Water reuse systems.

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, balance the system in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

CHAPTER 5
NONRESIDENTIAL MANDATORY MEASURES

Division 5.5 – ENVIRONMENTAL QUALITY

SECTION 5.501
GENERAL

5.501.1 Scope. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and wellbeing of a building's installers, occupants and neighbors.

SECTION 5.502
DEFINITIONS

5.502.1 Definitions. The following terms are defined in Chapter 2.

ARTERIAL HIGHWAY.

A-WEIGHTED SOUND LEVEL (dBA).

1 BTU/HOUR.

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL).

COMPOSITE WOOD PRODUCTS.

DAY-NIGHT AVERAGE SOUND LEVEL (L_{dn}).

DECIBEL (dB).

ENERGY EQUIVALENT (NOISE) LEVEL (L_{eq}).

EXPRESSWAY.

FREEWAY.

GLOBAL WARMING POTENTIAL (GWP).

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE).

HIGH-GWP REFRIGERANT.

LONG RADIUS ELBOW.

LOW-GWP REFRIGERANT.

MERV.

MAXIMUM INCREMENTAL REACTIVITY (MIR).

PRODUCT-WEIGHTED MIR (PWMIR).

PSIG.

REACTIVE ORGANIC COMPOUND (ROC).

SCHRADER ACCESS VALVES.

SHORT RADIUS ELBOW.

SUPERMARKET.

VOC.

SECTION 5.503
FIREPLACES

5.503.1 Fireplaces. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the *California Energy Code*, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

5.503.1.1 Woodstoves. Woodstove and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.

SECTION 5.504
POLLUTANT CONTROL

5.504.1 Temporary ventilation. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30 percent based on ASHRAE 52.1-1992. Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

5.504.4 Finish material pollutant control. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:
1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.
2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.

TABLE 5.504.4.1
ADHESIVE VOC LIMIT[1,2]
Less Water and Less Exempt Compounds in Grams Per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
Indoor carpet adhesives	50
Carpet pad adhesives	50
Outdoor carpet adhesives	150
Wood flooring adhesive	100
Rubber floor adhesives	60
Subfloor adhesives	50
Ceramic tile adhesives	65
VCT and asphalt tile adhesives	50
Drywall and panel adhesives	50
Cove base adhesives	50
Multipurpose construction adhesives	70
Structural glazing adhesives	100
Single-ply roof membrane adhesives	250
Other adhesive not specifically listed	50
SPECIALTY APPLICATIONS	
PVC welding	510
CPVC welding	490
ABS welding	325
Plastic cement welding	250
Adhesive primer for plastic	550
Contact adhesive	80
Special purpose contact adhesive	250
Structural wood member adhesive	140
Top and trim adhesive	250
SUBSTRATE SPECIFIC APPLICATIONS	
Metal to metal	30
Plastic foams	50
Porous material (except wood)	50
Wood	30
Fiberglass	80

1. If an adhesive is used to bond dissimilar substrates together the adhesive with the highest VOC content shall be allowed.
2. For additional information regarding methods to measure the VOC content specified in this table, see South Coast Air Quality Management District Rule 1168, http://www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF.

TABLE 5.504.4.2
SEALANT VOC LIMIT
Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
Architectural	250
Marine deck	760
Nonmembrane roof	300
Roadway	250
Single-ply roof membrane	450
Other	420
SEALANT PRIMERS	
Architectural Nonporous Porous	 250 775
Modified bituminous	500
Marine deck	760
Other	750

Note: For additional information regarding methods to measure the VOC content specified in these tables, see South Coast Air Quality Management District Rule 1168.

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of *California Code of Regulations*, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:
1. Manufacturer's product specification
2. Field verification of on-site product containers

TABLE 5.504.4.3
VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[2, 3]
Grams of VOC per Liter of Coating,
Less Water and Less Exempt Compounds

COATING CATEGORY	CURENT LIMIT
Flat coatings	50
Nonflat coatings	100
Nonflat-high gloss coatings	150
SPECIALTY COATINGS	
Aluminum roof coatings	400
Basement specialty coatings	400
Bituminous roof coatings	50
Bituminous roof primers	350
Bond breakers	350
Concrete curing compounds	350
Concrete/masonry sealers	100
Driveway sealers	50
Dry fog coatings	150
Faux finishing coatings	350
Fire resistive coatings	350
Floor coatings	100
Form-release compounds	250
Graphic arts coatings (sign paints)	500
High temperature coatings	420
Industrial maintenance coatings	250
Low solids coatings[1]	120
Magnesite cement coatings	450
Mastic texture coatings	100
Metallic pigmented coatings	500
Multicolor coatings	250
Pretreatment wash primers	420
Primers, sealers, and undercoaters	100
Reactive penetrating sealers	350
Recycled coatings	250
Roof coatings	50
Rust preventative coatings	250
Shellacs Clear Opaque	 730 550
Specialty primers, sealers and undercoaters	100
Stains	250
Stone consolidants	450
Swimming pool coatings	340
Traffic marking coatings	100
Tub and tile refinish coatings	420
Waterproofing membranes	250
Wood coatings	275
Wood preservatives	350
Zinc-rich primers	340

1. Grams of VOC per liter of coating, including water and including exempt compounds.
2. The specified limits remain in effect unless revised limits are listed in subsequent columns in the table.
3. Values in this table are derived from those specified by the California Air Resources Board, Architectural Coatings Suggested Control Measure, February 1, 2008. More information is available from the Air Resources Board.

5.504.4.4 Carpet systems. All carpet installed in the building interior shall meet at least one of the following testing and product requirements:
1. Carpet and Rug Institute's Green Label Plus Program;
2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as CDPH Standard Method V1.1 or *Specification 01350*);
3. NSF/ANSI 140 at the Gold level or higher;
4. Scientific Certifications Systems Sustainable Choice; or
5. Compliant with the Collaborative for High Performance Schools California (CA-CHPS) Criteria Interpretation for EQ 7.0 and EQ 7.1 (formerly EQ 2.2) dated July 2012 and listed in the CHPS High Performance Product Database.

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute's Green Label program.

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.) Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

5.504.4.5.1 Early compliance. Reserved.

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:
1. Product certifications and specifications.
2. Chain of custody certifications.
3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards.
5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5
FORMALDEHYDE LIMITS[1]
Maximum Formaldehyde Emissions in Parts per Million

PRODUCT	CURRENT LIMIT
Hardwood plywood veneer core	0.05
Hardwood plywood composite core	0.05
Particleboard	0.09
Medium density fiberboard	0.11
Thin medium density fiberboard[2]	0.13

1. Values in this table are derived from those specified by the California Air Resources Board, Air Toxics Control Measure for Composite Wood as tested in accordance with ASTM E1333. For additional information, see California *Code of Regulations*, Title 17, Sections 93120 through 93120.12.
2. Thin medium density fiberboard has a maximum thickness of 5/16 inch (8 mm).

5.504.4.6 Resilient flooring systems. For 80 percent of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following:
1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program;
2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version 1.1, February 2010;
3. Compliant with the Collaborative for High Performance Schools California (CA-CHPS) Criteria Interpretation for EQ 7.0 and EQ 7.1 (formerly EQ 2.2) dated July 2012 and listed in the CHPS High Performance Product Database; or
4. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children's & Schools Program).

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 8. MERV 8 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions:
1. An ASHRAE 10-percent to 15-percent efficiency filter shall be permitted for an HVAC unit meeting the 2013 *California Energy Code* having 60,000 Btu/h or less capacity per fan coil, if the energy use of the air delivery system is 0.4 W/cfm or less at design air flow.
2. Existing mechanical equipment.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

5.504.7 Environmental tobacco smoke (ETS) control. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505
INDOOR MOISTURE CONTROL

5.505.1 Indoor moisture control. Buildings shall meet or exceed the provisions of *California Building Code*, CCR, Title 24, Part 2, Sections 1203 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures not applicable to low-rise residential occupancies, see Section 5.407.2 of this code.

SECTION 5.506
INDOOR AIR QUALITY

5.506.1 Outside air delivery. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the 2013 *California Energy Code*, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

5.506.2 Carbon dioxide (CO2) monitoring. For buildings or additions equipped with demand control ventilation, CO2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the 2013 *California Energy Code*, Section 120(c)(4).

SECTION 5.507
ENVIRONMENTAL COMFORT

5.507.4 Acoustical control. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E90 and ASTM E413 or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [**DSA-SS**] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

Exceptions:

1. L_{dn} or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
2. L_{dn} or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or L_{dn} noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1 Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eq}-1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.507.4.2 Performance method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roofceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (L_{eq}-1Hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Site features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

5.507.4.3 Interior sound transmission. Wall and floorceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: http://www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.

SECTION 5.508
OUTDOOR AIR QUALITY

5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO2), and potentially other refrigerants.

5.508.2.1 Refrigerant piping. Piping compliant with the *California Mechanical Code* shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

5.508.2.1.2.1 Anchorage. One-fourth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

5.508.2.2 Valves. Valves and fittings shall comply with the *California Mechanical Code* and as follows.

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.

5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit over the stem are required for valves designed to have seal caps.

Exception: Valves with seal caps that are not removed from the valve during stem operation.

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device that indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and charging.

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes.

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

1. State certified apprenticeship programs.
2. Public utility training programs.
3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
4. Programs sponsored by manufacturing organizations.
5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

1. Certification by a national or regional green building program or standard publisher.
2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

Notes:

1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).[BSC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

REVISIONS / DESCRIPTION	DATE	BY
GENERAL UPDATE PER JM REVIEW	AUG 11, 2017	SES REC
ADD PR RELATED DWGS: ADA + IE FINAL CONSTRUCTION SUBMITTAL	AUG 31, 2017	SES REC
1		
2		
3		
4		

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0-31-2017
STATE OF CALIFORNIA

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VENTURA COLLEGE
MAINTENENCE & OPERATIONS
INTERIOR TENANT IMPROVEMENT
M BUILDING

2016 CALIFORNIA GREEN NON-RESIDENTIAL MANDATORY MEASURES

SHEET NAME :

10 JULY 2017
DATE :

1" ACTUAL
IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1) EXACTLY, THE DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ACTUAL MEASUREMENT OF ALL LABELED SCALES.

AS SHOWN — SCALE:
SES — DRAWN BY:

C16- 013 — ARCHITECT PROJECT #:
P 0107586 — VCCCD PROJECT #:

A-003
SHEET NUMBER : OF SHEETS

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS.

REFLECTED CEILING NOTES

1. DESIGN SUSPENDED CEILING FRAMING SYSTEMS TO RESIST A LATERAL FORCE OF 20% OF THE WEIGHT OF THE CEILING ASSEMBLY AND ANY LOADS TRIBUTARY TO THE SYSTEM. USE A MINIMUM CEILING WEIGHT OF 5 POUNDS PER SQUARE FOOT TO DETERMINE THE LATERAL FORCE.

2. WHERE CEILING LOADS DO NOT EXCEED 5 POUNDS PER SQUARE FOOT AND WHERE PARTITIONS ARE NOT CONNECTED TO THE CEILING SYSTEM, THE FOLLOWING BRACING METHODS MAY BE EMPLOYED:
   A. PROVIDE LATERAL SUPPORT BY FOUR WIRES OF MINIMUM NO. 12 GAUGE SPLAYED IN FOUR DIRECTIONS 90 DEGREES APART, AND CONNECTED TO THE MAIN RUNNER WITHIN 2" OF THE CROSS RUNNER AND TO THE STRUCTURE ABOVE AT AN ANGLE NOT EXCEEDING 45 DEGREES FROM THE PLANE OF THE CEILING. PROVIDE THESE LATERAL SUPPORT POINTS 12 FEET ON CENTER IN EACH DIRECTION, WITH THE FIRST POINT WITHIN 4' FROM EACH WALL.
   B. ALLOW FOR LATERAL MOVEMENT OF THE SYSTEM. ATTACH MAIN RUNNERS AND CROSS RUNNERS AT TWO ADJACENT WALLS; MAINTAIN CLEARANCE BETWEEN THE WALL AND THE RUNNERS AT THE OTHER TWO WALLS.
   C. PROVIDE VERTICAL SUPPORT AS REQUIRED IN BUILDING CODES. IN ADDITION, VERTICALLY SUPPORT ENDS OF RUNNERS WITHIN 8" OF DISCONTINUITIES SUCH AS MAY OCCUR WHERE THE CEILING IS INTERRUPTED BY A WALL.
   D. SUPPORT LIGHT FIXTURES AND AIR DIFFUSERS DIRECTLY BY WIRES TO THE STRUCTURE ABOVE.

3. LOCATE REGISTERS AND LIGHTING FIXTURES WITHIN GRID LINES. CENTER SPRINKLER HEADS, SPEAKERS, RECESSED FIXTURES, AND SIMILAR CEILING ELEMENTS IN ACOUSTICAL UNITS, UNLESS OTHERWISE NOTED.

4. FINISH HVAC DIFFUSERS, DRAPERY POCKETS, AND SPEAKER GRILLES TO MATCH ADJACENT FINISH, UNLESS OTHERWISE NOTED.

5. REFER TO MEP DRAWINGS, FIRE PROTECTION DRAWINGS AND PROJECT MANUAL FOR DESIGN OF THESE SYSTEMS. LOCATIONS OF FIXTURES, REGISTERS, SWITCHES, ETC. SHALL BE SUBMITTED TO ARCHITECT FOR REVIEW, COMMENCING CONSTRUCTION.

6. ALL FIXTURES TO BE LAMPED 3500k (FOR ALL NEW CONSTRUCTION)

POWER & COMMUNICATION NOTES

1. COORDINATE INSTALLATION OF TELECOMMUNICATIONS, DATA AND SECURITY SYSTEMS.

2. VERIFY EQUIPMENT SPECIFICATIONS, POWER AND INSTALLATION REQUIREMENTS WITH MANUFACTURER TO ENSURE PROPER FIT AND FUNCTION.

3. VERIFY MOUNTING REQUIREMENTS OF ELECTRICAL, TELEPHONE AND OTHER EQUIPMENT.

4. GANG ADJACENT LIGHT SWITCHES AND COVER WITH A SINGLE PLATE.

5. INDICATED DIMENSIONS ARE TO THE CENTER LINE OF OUTLET OR SWITCH, OR CLUSTER OF OUTLETS OR SWITCHES, UNLESS OTHERWISE NOTED.

6. INSTALL OUTLETS ON OPPOSITE SIDES OF PARTITIONS IN SEPARATE STUD CAVITIES. DO NOT INSTALL BACK-TO-BACK.

7. PROVIDE MATCHING COVER PLATES, RECEPTACLES AND RELATED ITEMS. PROVIDE ONE-PIECE TYPE GANG COVER PLATES, UNLESS OTHERWISE NOTED.

8. IDENTIFY DEDICATED OR ISOLATED GROUND ELECTRICAL OUTLETS WITH A RED DOT.

FINISH NOTES

1. ENSURE SURFACES TO RECEIVE FINISHES ARE CLEAN, TRUE, AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

2. PROVIDE STRAIGHT, FLUSH RESILIENT BASE AT CARPETED AREAS, AND COVED, TOP SET RESILIENT BASE AT RESILIENT FLOORING, UNLESS OTHERWISE NOTED.

SIGNS & IDENTIFICATION

NOTE: CALIFORNIA'S STANDARDS FOR SIGNAGE ARE MORE STRINGENT AND ARE SIGNIFICANTLY LARGER AND WIDER THAN FEDERAL LAW, AMERICANS WITH DISABILITIES ACT (ADA) SECTION 4.30.

NOTE: THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USED TO IDENTIFY FACILITIES THAT ARE ACCESSIBLE TO AND USABLE BY PHYSICALLY DISABLED PERSONS AS SET FORTH IN TITLE 24 AND AS SPECIFICALLY REQUIRED IN THIS SECTION.

ELECTRICAL

ELECTRICAL NOTES: SEE ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.

1. PROVIDE 30-INCH WIDTH BY 36-INCH DEPTH CLEAR SPACE IN FRONT OF ELECTRIC PANELS (CEC, ART. 110-26).

2. ALL ELECTRIC PANELBOARDS AND SWITHBOARDS SHALL BE LOCATED IN IN DEDICATED SPACES, PROTECTED FROM DAMAGE AND PLACED SO AS TO REDUCE TO A MINIMUM THE PROBABILITY OF COMMUNICTING FIRE TO ADJACENT COMBUSTIBLE MATERIAL. (CEC, ART. 110.26.(F)) (CBC, SEC. 408.17).

3. EACH DISCONNECTING MEANS SHALL BE LEGIBLY MARKED TO INDICATE ITS PURPOSE UNLESS LOCATED AND ARRANGED SO THE PURPOSE IS EVIDENT. THE MARKING SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. (CEC, ART 110.22).

4. ALL CONDUITS IN THE T-BAR CEILING AREAS SHALL NOT BE SUPPORTED BY THE T-BAR ASSEMBLY SUPPORT WIRES UNLESS ALLOWABLE BY THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. (CEC, ART. 300-11 (A)(1) AND (2)).

5. IN T-BAR CEILING ASSEMBLIES LIGHTING FIXTURES, AIR DIFFUSERS, EXIT SIGNS, AND SIMILAR COMPONENTS SHALL BE INDEPENDENTLY SUPPORTED BY 12 GAUGE SUPPORT WIRES. (ASTM C-636).

6. THE GENERAL LIGHTING OF ANY ENCLOSED SPACE OF 100 SQUARE FEET OR LARGER IN WHICH THE CONNECTED LIGHTING LOAD EXCEEDS 0.8 WATTS PER SQUARE FOOT, AND THAT HAS MORE THAN ONE LIGHT SOURCE (LUMINAIRE), SHALL HAVE MULTI-LEVEL LIGHTING CONTROLS. (CEnC, SEC 131 (b)).

7. PROVIDE A G.F.C.I. PROTECTED RECEPTACLE IN ALL RESTROOMS, COMMERCIAL KITCHENS AND OUTDOOR PUBLIC SPACES. (CEC, ART. 210-8 (b)(1)-(4)).

8. PROVIDE A DEDICATED 20-AMP SIGN CIRCUIT TO THE FRONT (EXTERIOR) OF THE TENANT SPACE TERMINATING IN AN INDENTIFIABLE JUNCTION BOX. (CEC, ART. 600-5)

9. PROVIDE A DISCONNECTING MEANS FOR EACH MOTOR AND CONTROLLER WITHIN SIGHT AND EASY ACCESS OF EACH RESPECTIVE MOTOR AND CONTROLLER LOCATION. (CEC, ART. 102 (A) & (B) AND ART. 440.11 (D)). FOR CORD CONNECTED EQUIPMENT SEE CEC, ART. 440.13.

10. TRACK LIGHTING SHALL BE INSTALLED PER CEC, ART. 410.101.

11. ALL EQUIPMENT, LIGHTING FIXTURES AND ELECTRICAL COMPONENTS SHALL BEAR THE MARK OF A NATIONALLY RECOGNIZED TESTING LABORATORY. ANY USED EUIPMENT SHALL BE INSPECTED AND CERTIFIED PRIOR TO INSTALLATION. (CEC, ART. 110-3 (A) & (B)).

12. ALL NEW RECEPTACLES SHALL BE INSTALLED ABOVE 15-INCH HEIGHT ABOVE FINISH FLOOR, AND SHALL NOT BE INSTALLED ABOVE 48-INCH HEIGHT ABOVE FINISH FLOOR. THE CENTER OF SWITCHES FOR LIGHTING, RECEPTACLES AND HVAC EQUIPMENT NEEDS SHALL BE INSTALL AT 48-INCH HEIGHT ABOVE FINISH FLOOR.

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CONTROLS & OPERATING MECH.

1. CONTROLS AND OPERATING MECHANISMS REQUIRED TO BE ACCESSIBLE BY SECTION 101.4.1.1 SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 1117B.6.

2. CLEAR FLOOR SPACE COMPLYING WITH SECTION 1118B.4 THAT ALLOWS A FORWARD OR PARALLED APPROACH BY A PERSON USING A WHEELCHAIR SHALL BE PROVIDED AT CONTROLS, DISPENCERS, RECEPTACLES, AND OTHER OPERABLE EQUIPMENT.

3. THE HIGHEST AND LOWEST OPERABLE PART OF ALL CONTROLS, DISPENSERS, RECEPTACLES, AND OTHER OPERABLE EQUIPMENT SHALL BE PLACED WITHIN 48" OF THE FLOOR BUT NOT LOWER THAN 15" IF FORWARD APPROACHED AND WITHIN 54" BUT NOT LOWER THAN 9" IF SIDE APPROACHED. ELECTRICAL AND COMMUNICATION SYSTEM RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 15" ABOVE THE FLOOR.

4. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PUNCHING, OR TWISTING OF THE WRIST. FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS OF FOURCE.

5. FAUCET CONTROLS AND OPERATING MECHANISMS FOR KITCHEN SINKS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FOURCE REQUIRED TO ACTIVATE FAUCET CONTROLS AND OPERATING MECHANISMS FOR KITCHEN SINKS SHALL BE NO GREATER THAN 5 POUNDS. LEVER OPERATED, PUSH TYPE, AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.

ENERGY REQUIREMENTS (FOR ALL NEW CONSTRUCTION)

1. EACH WINDOW AND DOOR LOCATED IN WALLS WHICH SEPERATE CONDITIONED AND UNCONDITIONED SPACE (INCLUDING BUILDING EXTERIOR) SHALL BE LABELED BY THE MANUFACTURER TO CERTIFY COMPLIANCE WITH THE REQUIREMENTS OF NATIONAL FENESTRATION RATING COUNCIL PER NFRC 100 AND 200 FOR FIELD VERIFICATION BY THE INSPECTOR. (CMEC SECTION 102.3).

DEMOLITION NOTES

1. COMPLY WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS PERTAINING TO SAFETY OF PERSONS, PROPERTY AND ENVIRONMENTAL PROTECTION.
2. PROVIDE AND MAINTAIN BARRICADES, LIGHTING AND GUARDRAILS AS REUQIRED BY APPLICABLE CODES AND REGULATIONS TO PROTECT OCCUPANTS OF BUILDING AND WORKERS.
3. ERECT AND MAINTAIN DUSPTROOF PARTITIONS AS REQUIRED TO PREVENT SPREAD OF DUST, FUMES AND SMOKE, ETC. TO OTHER PARTS OF THE BUILDING. UPON COMPLETION: REMOVE PARTITIONS AND REPAIR DAMAGED SURFACES TO MATCH ADJACENT SURFACES.
4. IF DEMOLITION IS PERFORMED IN EXCESS OF THAT REQUIRED: RESTORE EFFECTED AREAS AT NO COST TO THE OWNER.
5. REMOVE FROM SITE DAILY AND LEGALLY DISPOSE OF REFUSE, DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS.
6. REMOVE DESIGNATED PARTISION, COMPONENTS, BUILDING EQUIPMENT, AND FIXTURES AS REQUIRED FOR NEW WORK.
7. REMOVE ABANDONED HVAC EQUIPMENT, INCLUDING DUCTWORK.
8. REMOVE ABANDONED ELECTRICAL TELEPHONE AND DATA CABLING AND DEVICES, U.O.N.
9. REMOVE EXISTING FLOOR FINISHES AND PREPARE SUBFLOOR AS REQUIRED FOR NEW FLOOR FINISHES.

PAINT FINISHES

ALL PAINTING WORK INCLUDING BACK-PRIMING, SEALING, FILLING, PAINTING, STAINING OR LACQERING OR OTHER WORK REASONABLY INCIDENTAL TO THE FINISH OF ALL EXTERIOR AND INTERIOR WOODWORK, GYPSUM WALLBOARD, PLYWOOD, SHEET METAL, STEEL, IRONWORK, ETC. SHALL BE IN ACCORDANCE WITH THE RECOMMENDED STANDARDS AS SET FORTH IN THE "PAINTING SPECIFICATIONS OF THE PAINTING AND DECORATING CONTRACTOR'S ASSOCIATION OF AMERICA."

MECHANICAL

MECHANICAL: SEE M SHEETS FOR ADDITIONAL INFORMATION.
1. BUILDINGS SHALL BE PROVIDED WITH NATURAL VENTILATION (CBC, SEC. 1203.4) OR MECHANICAL VENTILATION. (CMC, SEC. 402.3 & 403.0).
2. RESTROOMS SHALL BE PROVIDED WITH EXHAUST VENTILATION. (CMC, SEC 403.7 & T 4-4).
3. CONDENSATE FROM HVAC COOLING COILS AND OVERFLOW FROM EVAPORATIVE COOLERS SHALL BE COLLECTED AND DISCHARGED TO AN APPROVED PLUMBING FIXTURE OR DISPOSAL AREA. (CMC, SEC. 310.1)
4. HVAC DUCTS SHALL BE SUPPORTED IN AN APPROVED MANNER. (CMC, SEC. 604.5 & T 6-7 & T 6-10).
5. HVAC DUCTS SHALL BE SEALED TO MEET THE APPLICABLE REQUIREMENTS OF UL-181, UL-181A, OR UL-181B (CEnC, SEC. 124(A)).

PLUMBING

PLUMBING (REFER TO PLUMBING SHEETS FOR ADDITIONAL INFORMATION):
1. DRAINAGE PIPING SHALL BE CAST IRON, GALVANIZED WROUGHT IRON, COPPER, BRASS, STAINLESS STEEL 304 OR 316-L, SCHEDULE 40 ABS DEW, SCHEDULE 40 PVC DWV, OR EXTRA STRENGTH VITRIFIED CLAY PIPA. (CPC, SEC. 701.1.1 & 701.1.2, AND CPC CH. 15).

2. WATER PIPING SHALL BE COPPER TYPE L PER T 6-4.

3. PROVIDE AN APPROVED TYPE PRESSURE REGULATOR SET AT 80 P.S.I. MAX. WHEN THE LOCAL WATER PRESSURE IS IN EXCESS OF 80 P.S.I. (CPC, SEC. 602). PER CPC, SEC. 314 & T 3-2.Y

4. PLUMBING VENTS SHALL TERMINATE NOT LESS THAN 10'-0" FROM OR AT LEAST 3'-0" ABOVE ANY OPENABLE WINDOW, DOOR OPENING, AIR INTAKE OR VENTILATION SHAFT, NOR LESS THAN 3'-0" IN EVERY DIRECTION FROM ANY PROPERTY (LOT) LINE. (CPC, SEC. 906.2)

5. WATER CLOSET BOWLS USED FOR THE PUBLIC SHALL BE ELONGATED IN DESIGN AND EQUIPPED WITH AN OPEN FRON SEAT. (CPC, SEC. 408.1)

6. CONTROLS FOR AN ACCESSIBLE (A.D.A.) WATER CLOSET SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING. CONTROLS SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET COMPARTMENT SPACE NO MORE THAN 44-INCH HEIGHT ABOVE THE FINISH FLOOR. (CBC, SEC. 1115B.4.5)

7. IN SEISMIC DESIGN CATEGORIES C, D, E, AND F THE TANK TYPE WATER HEATERS SHALL BE STRAPPED WITHIN THE UPPER 1/3 AND LOWER 1/3 OF THE VERTICAL DIMENSION. THE LOWER STRAP SHALL BE A MINIMUM OF 4 INCHES ABOVE THE CONTROLS. (CPC, SEC. 508.2)

8. FLUSH VOLUMES FOR LOW-CONSUMPTION AND WATER-SAVER WATER CLOSETS AND URINALS SHALL COMPLY WITH THE STANDARDS REFERENCED IN T-14-1 AND CPC, SEC. 402.2 & 402.3.
   A. WATER CLOSETS, EITHER FLUSH TANK OR FLUSH-O-METER VALVE OPERATED SHALL HAVE AN AVERAGE CONSUMPTION OF NOT MORE THAN 1.6 GALLONS PER FLUSH.
   B. URINALS SHALL HAVE AN AVERAGE WATER CONSUMPTION OF NOT MORE THAN 1.0 GALLONS PER FLUSH.

9. ALL PIPING SHALL BE SUPPORTED PER CPC, SEC. 314 & T 3-2.Y

DISABLE ACCESS NOTES (CONT.)

28. IF CARPET OR CARPET TILE IS USED ON A GROUND OR FLOOR SURFACE, IT SHALL BE SECURELY ATTACHED; HAVE A FIRM CUSHION, PAD OR BACKING OR NO CUSHION OR PAD; AND HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT/UNCUT PILE TEXTURE. THE MAXIMUM PILE HEIGHT SHALL BE 1/2". EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND HAVE TRIM ALONG THE ENTIRE LENGTH OF THE EXPOSED EDGE.
29. IF SEATING FOR PEOPLE IN WHEELCHAIRS IS PROVIDED AT FIXED TABLES OR COUNTERS, KNEE SPACES AT LEAST 27" HIGH, 30" WIDE, AND 19" DEEP SHALL BE PROVIDED.
30. THE INTERN'L SYMBOL OF ACCESSIBILITY SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND; THE BLUE SHALL BE EQUAL TO COLOR #15090 IN FEDERAL STANDARD 595B.
31. ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.
32. WHEN PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES OF A BUILDING OR SITE, RAISED LETTERS SHALL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE . SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH OUTSIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISHED FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.
33. THE CENTER OF THE GRIP OF THE OPERATING HANDLE OF CONTROLS OR SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES, OR COOLING, HEATING, AND VENTILATING EQUIPMENT SHALL MEET THE REQUIREMENTS OF PART 2, CALIFORNIA BUILDING CODE (CBC), SECTION 1118B, SPACE ALLOWANCE AND REACH RANGES, FOR PERSONS WITH DISABILITIES AND SHALL NOT BE MORE THAN 48" ABOVE THE FLOOR OR WORKING PLATFORM.
34. THE CENTER OF FIRE ALARM INITIATING DEVICES (BOXES) SHALL BE LOCATED 48" ABOVE THE LEVEL OF THE FLOOR, WORKING PLATFORM, GROUND SURFACE, OR SIDEWALK WHERE INSTALLED.
35. CONTROLS AND OPERATING MECHANISMS REQUIRED TO BE ACCESSIBLE
36. CLEAR FLOOR SPACE THAT ALLOWS A FORWARD OR PARALLEL APPROACH BY A PERSON USING A WHEELCHAIR SHALL BE PROVIDED AT CONTROLS, DISPENSERS, RECEPTACLES, AND OTHER OPERABLE EQUIPMENT.
37. THE HIGHEST AND LOWEST OPERABLE PART OF ALL CONTROLS, DISPENSERS, RECEPTACLES, AND OTHER OPERABLE EQUIPMENT SHALL BE PLACED WITHIN 48" OF THE FLOOR BUT NOT LOWER THAN 15" IF FORWARD APPROACH AND WITHIN 54" BUT NOT LOWER THAN 9" IF SIDE APPROACHED. ELECTRICAL AND COMMUNICATION SYSTEM RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 15" ABOVE THE FLOOR.
38. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PUNCHING, OR TWISTING OF THE WRIST. FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS OF FOURCE.
39. FAUCET CONTROLS AND OPERATING MECHANISMS FOR KITCHEN SINKS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FOURCE REQUIRED TO ACTIVATE FAUCET CONTROLS AND OPERATING MECHANISMS FOR KITCHEN SINKS SHALL BE NO GREATER THAN 5 POUNDS. LEVER OPERATED, PUSH TYPE, AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.
40. CALIFORNIA'S STANDARDS FOR SIGNAGE ARE MORE STRINGENT AND ARE SIGNIFICANTLY LARGER AND WIDER THAN FEDERAL LAW, AMERICANS WITH DISABILITIES ACT (ADA)
41. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USED TO IDENTIFY FACILITIES THAT ARE ACCESSIBLE TO AND USABLE BY PHYSICALLY DISABLED PERSONS.

TITLE 24 NOTES (FOR ALL NEW CONSTRUCTION)

1. EVERY REQUIRED EXIT DOORWAY WHICH IS LOCATED WITHIN AN ACCESSIBLE PATH OF TRAVEL SHALL BE CAPABLE OF OPENING AT LEAST 90 DEGRESS, SHALL HAVE A MINIMUM CLEAR OPENING OF 32", AND SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 3' IN WIDTH AND NOT LESS THAN 6'-8" IN HEIGHT.
2. THERE SHALL BE A LEVEL AND CLEAR FLOOR OR LANDING ON EACH SIDE OF A DOOR. THE LEVEL AREA SHALL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF AT LEAST 60" AND THE LENGTH OPPOSITE THE DIRECTION OF DOOR SWING OF 48" AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN THE CLOSED POSITION. WHERE THE PLANE OF THE DOORWAY IS OFFSET OR LOCATED IN AN ALCOVE A DISTANCE MORE THAN 8 INCHES MEASURED FROM THE PLANE OF THE DOORWAY TO THE FACE OF THE WALL, THE DOOR SHALL BE PROVIDED WITH 60" MANEUVERING CLEARANCE FOR FRONT APPROACH.
3. THE WIDTH OF THE LEVEL AREA ON THE SIDE TO WHICH THE DOOR SWINGS SHALL EXTEND 24" PAST THE STRIKE EDGE OF THE DOOR FOR EXTERIOR DOORS AND 18" PAST THE STRIKE EDGE FOR INTERIOR DOORS. WHERE THE DOOR IS RECESSED OR LOCATED IN AN ALCOVE, THE PROJECTION DISTANCE ALLOWED TO PROJECT INTO THE REQUIRED DOOR STRIKE CLEARANCE MEASURED FROM THE FACE OF THE WALL TO THE FACE OF THE DOOR IS LIMITED TO 8 INCHES.
4. PROVIDE CLEAR SPACE OF 12" PAST STRIKE EDGE OF THE DOOR ON THE OPPOSITE SIDE TO WHICH THE DOOR SWINGS IF THE DOOR IS EQUIPPED WITH BOTH A LATCH AND A CLOSER.
5. IN BUILDINGS AND FACILITIES, FLOORS OF A GIVEN STORY SHALL BE A COMMON LEVEL THROUGHOUT, OR SHALL BE CONNECTED BY PEDESTRIAN RAMPS, PASSENGER ELEVATORS, OR SPECIAL ACCESS LIFTS.
6. GROUND AND FLOOR SURFACES ALONG ACCESSIBLE ROUTES AND IN ACCESSIBLE ROOMS AND SPACES, INCLUDING FLOORS, WALKS, RAMPS, STAIRS, AND CURB RAMPS, SHALL BE STABLE, FIRM, AND SLIP-RESISTANT.
7. CHANGES IN LEVEL UP TO 1/4 INCH MAY BE VERTICAL AND WITHOUT EDGE TREATMENT.
8. CHANGES IN LEVEL BETWEEN 1/4 INCH AND 1/2 INCH SHALL BE ACCOMPLISHED BY MEANS OF A RAMP NO STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL.
9. IF CARPET OR CARPET TILE IS USED ON A GROUND OR FLOOR SURFACE, IT SHALL BE SECURELY ATTACHED; HAVE A FIRM CUSHION, PAD OR BACKING OR NO CUSHION OR PAD; AND HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT/UNCUT PILE TEXTURE. THE MAXIMUM PILE HEIGHT SHALL BE 1/2". EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND HAVE TRIM ALONG THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH SECTION 1124B.2.
10. IF SEATING FOR PEOPLE IN WHEELCHAIRS IS PROVIDED AT FIXED TABLES OR COUNTERS, KNEE SPACES AT LEAST 27" HIGH, 30" WIDE, AND 19" DEEP SHALL BE PROVIDED.
11. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595B.
12. ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.
13. WHEN PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES OF A BUILDING OR SITE, RAISED LETTERS SHALL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE WITH SECTION 1117B.5.2 THROUGH 1117B.5.7. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH OUTSIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISHED FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.
14. THE CENTER OF JUNCTION BOX FOR ELECTRICAL AND COMMUNICATION SYSTEM RECEPTACLE OUTLETS SHALL BE INSTALLED AT AN ACCESSIBLE LOCATION MEETING THE CLEARANCES AND REACH RANGE REQUIREMENTS OF SECTION 1118B AND NOT LESS THAN 15" ABOVE THE FLOOR OR WORKING PLATFORMS.
15. THE CENTER OF THE GRIP OF THE OPERATING HANDLE OF CONTROLS OR SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES, OR COOLING, HEATING, AND VENTILATING EQUIPMENT SHALL MEET THE REQUIREMENTS OF PART 2, CALIFORNIA BUILDING CODE (CBC), SECTION 1118B, SPACE ALLOWANCE AND REACH RANGES, FOR PERSONS WITH DISABILITIES AND SHALL NOT BE MORE THAN 48" ABOVE THE FLOOR OR WORKING PLATFORM.
16. THE CENTER OF FIRE ALARM INITIATING DEVICES (BOXES) SHALL BE LOCATED 48" ABOVE THE LEVEL OF THE FLOOR, WORKING PLATFORM, GROUND SURFACE, OR SIDEWALK WHERE INSTALLED.
17. CONTROLS FOR WATER CLOSET FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS.

DISABLED ACCESS NOTES (FOR APPLICABLE NEW CONSTRUCTION)

1. IN BUILDINGS AND FACILITIES, FLOORS OF A GIVEN STORY SHALL BE A COMMON LEVEL THROUGHOUT, OR SHALL BE CONNECTED BY PEDESTRIAN RAMPS, PASSENGER ELEVATORS OR SPECIAL ACCESS LIFTS.

2. FLOOR SURFACES SHALL BE SLIP-RESISTANT.

3. EVERY CORRIDOR AND AISLE SERVING AN OCCUPANT LOAD OF 10 OR MORE SHALL BE NOT LESS THAN 44" IN WIDTH.

4. ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 1/2" IN HEIGHT. LEVEL CHANGES NOT EXCEEDING 1/4" MAY BE VERTICAL. BEVEL OTHERS WITH A SLOPE NO GREATER THAN 1:2

5. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. MOUNT DOOR OPENING HARDWARE BETWEEN 30" AND 44" ABOVE FLOOR FINISH.

6. CENTER HAND ACTIVATED DOOR OPENING HARDWARE BETWEEN 30" AND 44" ABOVE THE FLOOR.

7. MAXIMUM PULL OR PUSH EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS, MEASURED AT RIGHT ANGLES TO HINGED DOORS AND AT CENTER PLANE OF SLIDING OR FOLDING DOORS. CORRESPONDING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. MAXIMUM EFFORT TO OPERATE REQUIRED FIRE DOORS MAY BE INCREASED NOT TO EXCEED 15 POUNDS.

8. THE BOTTOM 10" OF ALL DOORS (EXCEPT SLIDING AND AUTOMATIC) SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. PROVIDE A 10" HIGH SMOOTH PANEL ON THE PUSH SIDE OF NARROW FRAME DOORS.

9. EVERY REQUIRED ENTRANCE OR PASSAGE DOORWAY SHALL BE NOT LESS THAN 3' IN WIDTH AND NOT LESS THAN 6'-8" IN HEIGHT. DOORS SHALL BE CAPABLE OF OPENING AT LEAST 90 DEGREES AND SHALL BE SO MOUNTED THAT THE CLEAR WIDTH OF THE DOORWAY IS NOT LESS THAN 32".
10. WHERE A PAIR OF DOORS IS UTILIZED, AT LEAST ONE OF THE DOORS SHALL PROVIDE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32" WITH THE LEAF POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
11. IDENTIFY ACCESSIBLE ENTRANCES WITH AT LEAST ONE STANDARD SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, VISIBLE FROM APPROACHING PEDESTRIAN WAYS.

12. THE FLOOR OR LANDING ON EACH SIDE OF AN ENTRANCE OR PASSAGE DOOR SHALL BE LEVEL AND CLEAR. THE LEVEL AND CLEAR AREA SHALL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF AT LEAST 60" AND THE LENGTH OPPOSITE THE DIRECTION OF DOOR SWING OF 44" AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN ITS CLOSED POSITION.

13. FLOORS OR LANDINGS SHALL BE NOT MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGE IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.

14. TO ALERT THE VISUALLY IMPAIRED, MARK THE UPPER APPROACH AND THE LOWER TREAD OF EACH INTERIOR STAIR WITH A STRIP OF CLEARLY CONTRASTING COLOR AT LEAST 2" WIDE, PLACED PARALLEL TO AND NOT MORE THAN 1" FROM THE NOSE OF THE STEP OR LANDING. THE STRIP SHALL BE OF A MATERIAL THAT IS AT LEAST AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR.

15. CENTER ELECTRICAL RECEPTACLE OUTLETS NOT LESS THAN 15" ABOVE THE FLOOR OR WORKING PLATFORM.

16. SANITARY FACILITIES LOCATED ON AN ACCESSIBLE FLOOR OF A BUILDING SHALL BE ACCESSIBLE TO THE PHYSICALLY HANDICAPPED.

17. ENTRY TO SANITARY FACILITIES:
   A. 44" CLEAR AISLES OR CORRIDORS WHERE OCCUPANT LOAD IS 10 OR MORE.
   B. DOORWAYS TO HAVE A 32" CLEAR OPENING.
   C. ON APPROACH SIDE, PROVIDE A 60" CLEAR LEVEL SPACE WHEN DOOR SWINGS TOWARD APPROACH AND 44" SPACE WHEN DOOR SWINGS AWAY FROM APPROACH.
   (REFER TO DRWG. 2/A00.40 FOR CLEARANCES BASED ON DIFFERENT APPROACHES)

18. TOILET ROOM ACCESSORIES
   A. MOUNT BOTTOM EDGE OF MIRRORS NO HIGHER THAN 40" FROM THE FLOOR.
   B. MOUNT TOILET TISSUE DISPENSERS WITHIN 7"- 9" FROM THE FRONT EDGE OF THE TOILET SEAT.
   C. MOUNT DISPENSING AND DISPOSAL FIXTURES (TOWEL, SANITARY NAPKINS, WASTE, COIN SLOTS, ETC.) WITH OPERATING PARTS NO HIGHER THAN 40" FROM THE FLOOR.
19. SINGLE ACCOMMODATION TOILET FACILITY
   SEE 12/A00.40 FOR CLEARANCE REQUIREMENTS

20. THE HEIGHT OF THE WATER CLOSET (TOP OF SEAT) SHALL BE BETWEEN 17" AND 19".

21. MOUNT FLUSH VALVE CONTROL NO MORE THAN 44" ABOVE THE FLOOR, ON THE SIDE OF THE TOILET WITH THE GREATEST SEPARATION FROM ADJACENT WALL OR OTHER SURFACE.

22. PROVIDE GRAB BARS ON EACH SIDE, OR ONE SIDE AND BACK OF WATER CLOSET.
   A. GRAB BARS TO BE 33"- 36" AFF TO TOP OF BAR AND PARALLEL TO THE FLOOR.
   B. SIDE BARS TO BE 42" LONG AND PROJECT 24" IN FRONT OF WATER CLOSET STOOL. GRAB BAR AT BACK TO BE 36" LONG.
   C. DIAMETER OF GRAB BARS TO BE 1-1/4" TO 1-1/2".
   D. PROVIDE 1-1/2" CLEARANCE BETWEEN GRAB BARS AND WALL.
   E. GRAB BARS (INCLUDING CONNECTORS, FASTENERS, SUPPORT BACKING, ETC.) SHALL SUPPORT A 250 POUND LOAD.
   F. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
   G. GRAB BARS AND ANY ADJACENT SURFACE SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS.
   H. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8".
23. PROVIDE A CLEAR FLOOR SPACE 30" X 48" IN FRONT OF LAVATORY TO PERMIT A FORWARD APPROACH.

24. MOUNT LAVATORIES WITH A MINIMUM CLEARANCE OF 29" FROM THE FLOOR TO THE BOTTOM OF THE APRON. PROVIDE KNEE CLEARANCE UNDER THE FRONT LIP EXTENDING A MINIMUM OF 30" IN WIDTH WITH 8" MINIMUM WIDTH, AND SHALL BE A MINIMUM OF 9" HIGH FROM THE FLOOR A MINIMUM OF 17" DEEP FROM THE FRONT OF THE LAVATORY.

25. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS. LEVER OPERATED, PUSH TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF CLOSING ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.
26. INSULATE OR OTHERWISE COVER HOT WATER AND DRAIN PIPES UNDER LAVATORIES.
27. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.

GENERAL NOTES

1. COMPLY WITH CODES, LAWS, ORDINANCES, RULES, AND REGULATIONS OF PUBLIC AUTHORITIES GOVERNING THE WORK.

2. OBTAIN AND PAY FOR PERMITS AND INSPECTIONS REQUIRED BY PUBLIC AUTHORITIES GOVERNING THE WORK.

3. REVIEW DOCUMENTS, VERIFY DIMENSIONS AND FIELD CONDITIONS AND CONFIRM THAT WORK IS BUILDABLE AS SHOWN. REPORT ANY CONFLICTS OR OMISSIONS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK IN QUESTION.

4. SUBMIT REQUESTS FOR SUBSTITUTIONS, REVISIONS, OR CHANGES TO ARCHITECT FOR REVIEW PRIOR TO PURCHASE, FABRICATION OR INSTALLATION.

5. OWNER WILL PROVIDE WORK NOTED "BY OTHERS" OR "NIC" UNDER SEPARATE CONTRACT. INCLUDE SCHEDULE REQUIREMENTS IN CONSTRUCTION PROGRESS SCHEDULE AND COORDINATE TO ASSURE ORDERLY SEQUENCE OF INSTALLATION

6. COORDINATE TELECOMMUNICATIONS, DATA AND SECURITY SYSTEM INSTALLATIONS.

7. PROTECT AREA OF WORK AND ADJACENT AREAS FROM DAMAGE.

8. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. IN CASE OF CONFLICT, CONSULT THE ARCHITECT.

9. PARTITIONS ARE DIMENSIONED FROM FINISH FACE TO FINISH FACE, UNLESS OTHERWISE NOTED. MAINTAIN DIMENSIONS MARKED "CLEAR". ALLOW FOR THICKNESS OF FINISHES.

10. COORDINATE AND PROVIDE BLOCKING FOR MILLWORK AND ITEMS ATTACHED OR MOUNTED TO WALLS OR CEILINGS.

11. UNDERCUT DOORS TO CLEAR TOP OF FLOOR FINISHES BY 1/4 INCH, UNLESS OTHERWISE NOTED.

12. CONCEALED INSULATING MATERIALS INSTALLED WITHIN WALL SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 75 AND A SMOKE-DEVELOPED INDEX OF MOT MORE THAN 450.

13. INSULATING MATERIALS WHICH ARE SUBJECT TO DIRECT EXPOSURE TO POTENTIAL FIRE ON THE INSIDE OF THE BUILDING DUE TO INSTALLATION IN UNCONCEALED SPACES SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 450.

14. MATERIALS EXPOSED WITHIN PLENUMS ARE REQUIRED TO BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 AS DETERMINED IN ACCORDANCE WITH ASTM E 84.

FIRE DEPARTMENT NOTES

1. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A:10-B:C WITHIN 75 FOOT TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILDING ON EACH FLOOR, AND ADDITIONAL EXTINGUISHERS AS REQUIRED BY FIRE DEPARTMENT FIELD INSPECTOR OR BUILDING DEPARTMENT INSPECTOR.

2. PROVIDE EXIT SIGN WITH 6" LETTERS OVER REQUIRED EXITS, WHERE SHOWN ON DRAWINGS, AND ADDITIONAL SIGNS AS REQUIRED BY BUILDING DEPARTMENT INSPECTOR OR FIRE DEPARTMENT FIELD INSPECTOR. CONNECT EXIT SIGNS TO EMERGENCY POWER CIRCUITS. COMPLY WITH BUILDING CODES.

3. PROVIDE EMERGENCY LIGHTING OF ONE FOOT-CANDLE AT FLOOR LEVEL. COMPLY WITH BUILDING CODES.

4. MAINTAIN AISLES AT LEAST 44" WIDE AT PUBLIC AREAS.

5. EVERY EXIT DOOR SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. SPECIAL LOCKING DEVICES SHALL BE OF AN APPROVED TYPE. ALL NEW DOORS SHALL HAVE APPROVED LEVER HANDLES.

6. WHEN APPLICABLE DOORS OPENING INTO REQUIRED 1-HOUR, FIRE-RESISTIVE CORRIDORS SHALL BE PROTECTED WITH A SMOKE OR DRAFT STOP ASSEMBLY HAVING A 20-MINUTE RATING AND SHALL BE SELF-CLOSING.

7. WHEN APPLICABLE 20-MINUTE DOOR JAMBS TO BE TIGHT-FITTING, SMOKE AND DRAFT CONTROLLED.

8. EXIT DOORS SHALL SWING IN THE DIRECTION OF TRAVEL WHEN SERVING 50 OR MORE PERSONS AND IN ANY HAZARDOUS AREA.

9. INTERIOR WALL AND CEILING FINISHES FOR EXIT CORRIDOR SHALL NOT EXCEED AN END POINT FLAME SPREAD RATING:
   A. CLASS I, FLAME SPREAD 0-25, SMOKE DENSITY 150, FOR MATERIALS INSTALLED IN VERTICAL EXITS.
   B. CLASS II, FLAME SPREAD 26-75, SMOKE DENSITY 300, FOR MATERIALS INSTALLED IN HORIZONTAL EXITS.
   C. CLASS III, FLAME SPREAD 76-200, SMOKE DENSITY 450, FOR MATERIALS INSTALLED IN ANY OTHER LOCATION.

10. WHEN APPLICABLE PROVIDE FIRE DAMPERS OR DOORS WHERE AIR DUCTS PENETRATE FIRE-RATED WALLS OR CEILINGS.

11. WOOD BLOCKING SHALL BE FIRE TREATED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS.

12. WHEN APPLICABLE, LOCATE THE CENTER OF FIRE ALARM INITIATING DEVICES 48" ABOVE TH LEVEL OF THE FLOOR, WORKING PLATFORM, GROUND SURFACE OR SIDEWALK.
13. WHEN APPLICABLE, EMERGENCY WARNING SYSTEMS SHALL ACTIVATE A MEANS OF WARNING FOR THE HEARING IMPAIRED. FLASHING VISUAL WARNING SHALL HAVE A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE AND SHALL BE SYNCRONIZED.

14. DEVICE COVERS TO BE TO MATCH LUTRON LIGHT ALMOND UNLESS DICTATED OTHERWISE BY LOCAL JURISDICTIONS.

15. WHEN APPLICABLE, CONTRACTOR SHALL PERMANENTLY IDENTIFY ALL FIRE RATED WALLS (AND CORRESPONDING HOURLY RATING) REQUIRED TO HAVE PROTECTED OPENINGS,CORRIDORS PARTITIONS, SMOKESTOP PARTITIONS, HORIZONTAL EXIT PARTITIONS,AND EXIT ENCLOSURES EITHER BY INSTALLING SIGNS OR BY STENCILING IN CONCEALED SPACES THE FOLLOWING: 1 HOUR FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS. IDENTIFICATION SHALL BE SPACED NO MORE THAN TWELVE (12) FEET ON CENTER WITH A MINIMUM LETTER SIZE OF TWO (2) INCHES IN HEIGHT ON A CONTRASTING BACKGROUND.

OCCUPANCY

OCCUPANCY NOTES: SEE A-200 SHEETS FOR MORE INFORMATION.
1. AN OCCUPANT LOAD EXCEEDING 49 FOR A TENANT, STORE OR OFFICE AREA REQUIRES TWO (2) EXITS. EXITS SHALL BE SEPARATED BY ONE-HALF (1/2) , OR ONE-THIRD (1/3) FOR SPRINKLERED SPACES, THE DIAGONAL DISTANCE OF THE AREA SERVED, AS MEASURED IN A STRAIGHT LINE. (CBC TABLE 1004.1.1 SEC. 1015.1).

2. TWO EXITS ARE REQUIRED WHEN THE COMMON PATH OF EGRESS TRAVEL EXCEEDS 75 FEET (OR 100 FEET IF THE BUILDING IS FULLY SPRINKLERED). (CBC, SEC. 1014.3).

3. EXIT DOORS SHALL SWING IN THE DIRECTION OF THE EXIT TRAVEL, WHEN SERVING AN OCCUPANT LOAD OF 50 OR MORE. (CBC, SEC. 1008.1.1.1).

4. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, OR ANY SPECIAL KNOWLEDGE, OR EFFORT. THE MAIN EXIT DOOR MAY BE PROVIDED WITH A READILY VISIBLE, DURABLE SIGN ON OR ADJACENT TO THE DOOR WHICH STATES:
   "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS" ALL OTHER EXIT DOORS SHALL BE EQUIPPED WITH A COMPLYING LOCK OR LATCH. (CBC, SEC. 1008.1.8.3).

5. EXIT SIGNS SHALL BE INSTALLED AT ALL REQUIRED EXIT DOORS. EACH GRADE LEVEL EXIT DOOR SHALL BE IDENTIFIED BY A TACTILE (RAISED CHARACTERS AND BRAILLE) EXIT SIGN WITH THE WORD "EXIT". TACTILE EXIT SIGNS ARE PLACED ON THE WALL ADJACENT TO THE LATCH SIDE AT 60 INCHES ABOVE THE FINISH FLOOR TO THE CENTER LINE OF THE EXIT SIGN.

6. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED BY TWO (2) ELECTRIC LAMPS, OR OF AN APPROVED SELF-LUMINOUS TYPE. (CBC, SEC. 1011.2).

7. EXIT SIGN ELECTRIC CURRENT POWER SUPPLY TO ONE OF THE LAMPS SHALL BE PROVIDED BY THE PREMISIS' ELECTRICAL WIRING SYSTEM. THE POWER SUPPLY TO THE OTHER LAMP SHALL BE FROM STORAGE BATTERIES OR AN ON-SITE GENERATOR. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE. (CBC, SEC. 1011.5.3).

8. CORRIDORS AND HALLWAYS SERVING AN OCCUPANT LOAD OF TEN (10) OR MORE SHALL NOT BE LESS THAN 44 INCHES IN WIDTH. CORRIDORS SERVING AN OCCUPANT LOAD OF LESS THAN TEN (10) SHALL NOT BE LESS THAN 36INCHES IN WIDTH. (CALIFORNIA DISABLED ACCESS REGULATIONS 1133B.3.1).

9. TEMPERED GLASS IS REQUIRED IN DOORS, IN GLAZING ASSEMBLIES WITHIN 24 INCHES FROM THE EDGE OF DOORS AND WITHIN 18 INCHES ABOVE THE FINISHED FLOOR. (CBC,SEC.2406.3).

10. THE EXISTING SITE PARKING STANDARDS SHALL CONFORM TO HANDICAP REQUIREMENTS AS STATED IN THE CBC CHAPTER 11B AND AS OUTLINED ON THIS SHEET AND SPECIFICALLY SHOWN IN DETAIL # 1 REGARDING ACCESSIBLE PARKING. SEE SHEET A-1.1 SITE PLAN FOR THE LOCATION OF EXISTING HANDICAP PARKING AND PATH OF TRAVEL SERVING THE TENANT SPACE IN THIS BUILDING.

REVISIONS / DESCRIPTION	DATE	BY
GENERAL UPDATE PER JM REVIEW	AUG 11, 2017	SES REC
ADD RR RELATED DWGS: ADA + IE FINAL CONSTRUCTION SUBMITTAL	AUG 31, 2017	SES REC
1		
2		
3		
4		

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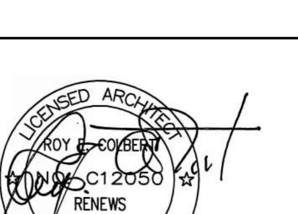

This project has been designed by me, or under my direct supervision.

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VENTURA COLLEGE MAINTENENCE & OPERATIONS INTERIOR TENANT IMPROVEMENT M BUILDING

TENANT IMPROVEMENT GENERAL NOTES

SHEET NAME :

10 JULY 2017
DATE :

1" ACTUAL
IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ACTUAL MEASUREMENT OF ALL LABELED SCALES.

AS SHOWN — SCALE:
SES — DRAWN BY:

C16- 013 — ARCHITECT PROJECT #:
P 0107586 — VCCCD PROJECT #:

A-004
SHEET NUMBER : OF SHEETS

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS

2016 CBC CHAPTER 11B - ACCESSIBILITY TO PUBLIC BUILDINGS

VC_M&O_ADMIN_TI_r3_v002.pln - Thursday, August 31, 2017

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CBC CHAPTER 11B - ACCESSIBILITY TO PUBLIC BUILDINGS

THE CODE SECTIONS NOTED BELOW ARE EXCERPTS FROM THE CALIFORNIA BUILDING CODE, 2016 EDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE OF THIS ENTIRE CHAPTER WHERE THE PROJECT CONDITIONS APPLY.

11B-103: NOTHING IN THESE REQUIREMENTS PREVENTS THE USE OF DESIGNS, PRODUCTS, OR TECHNOLOGIES AS ALTERNATIVES TO THOSE PRESCRIBED, PROVIDED THEY RESULT IN SUBSTANTIALLY EQUIVALENT OR GREATER ACCESSIBILITY OR USABILITY.

11B-201.4: THESE REQUIREMENTS SHALL APPLY TO TEMPORARY OR PERMANENT CONSTRUCTION SUPPORT FACILITIES FOR USES IN ACTIVITIES NOT DIRECTLY ASSOCIATED WITH THE ACTUAL PROCESS OF CONSTRUCTION. WHEN PROVIDED, TOILET AND BATHING FACILITIES SERVING CONSTRUCTION SUPPORT FACILITIES SHALL COMPLY WITH CBC *11B-213*.

EXCEPTION: DURING CONSTRUCTION AN ACCESSIBLE ROUTE SHALL NOT BE REQUIRED BETWEEN SITE ARRIVAL POINTS OR THE BOUNDARY OF THE AREA OF CONSTRUCTION AND THE ENTRANCE TO THE CONSTRUCTION SUPPORT FACILITIES IF THE ONLY MEANS OF ACCESS BETWEEN THEM IS A VEHICULAR WAY NOT PROVIDING PEDESTRIAN ACCESS.

11B-202: EXISTING BUILDINGS:

11B-202.3.1: REDUCTION OF ACCESS IS PROHIBITED.

11B-202.4: PROVIDE AN ACCESSIBLE PATHOF TRAVEL TO THE SPECIFIC AREA OF ALTERATION OR ADDITION. THE PRIMARY ACCESSIBLE PATHOF TRAVEL SHALL INCLUDE:

1. A PRIMARY ENTRANCE TO THE BUILDING OR FACILITY.
2. TOILET AND BATHING FACILITIES SERVING THE AREA.
3. DRINKING FOUNTAINS IF SERVING THE AREA.
4. SIGNAGE

EXCEPTIONS TO 11B-202.4 (ACCESSIBLE PATH)

1. RESIDENTIAL DWELLING UNITS SHALL COMPLY WITH *11B-233*.
2. PATHOF TRAVEL ELEMENTS CONSTRUCTED IN COMPLIANCE WITH THE IMMEDIATE PRECEDING EDITION OF CBC CHAPTER 11B SHALL NOT BE REQUIRED TO BE RETROFITTED TO REFLECT THE INCREMENTAL CHANGES IN THE CODE SOLELY BECAUSE OF AN ALTERATION TO AN AREA SERVED BY THOSE ELEMENTS.

3(a). ALTERING ONE BUILDING ENTRANCE
3(b). ALTERING ONE EXISTING TOILET FACILITY
3(c). ALTERING EXISTING ELEVATORS
3(d). ALTERING EXISTING STEPS
3(e). ALTERING EXISTING HANDRAILS

4. ALTERATIONS SOLELY FOR THE PURPOSE OF BARRIER REMOVAL PURSUANT TO THE REQUIREMENTS OF THE A.D.A. (*PUBLIC LAW 101-336, 28 C.F.R., SECTION 36.304*) OR THE ACCESSIBILITY REQUIREMENTS OF THIS CODE. (*REFER TO 11B-204 FOR AN ITEMIZED LIST*)
5. RESURFACING OR RESTRIPING OF EXISTING PARKING AREAS
6. THE ADDITION OR REPLACEMENT OF SIGNS AND/OR IDENTIFICATION DEVICES.
7. PROJECT CONSISTING ONLY OF HVAC, RE-ROOFING, ELECTRICAL WORK NOT INVOLVING PLACEMENT OF SWITCHES AND RECEPTACLES, COSMETIC FINISH WORK
8. (SEE THE TEXT OF *11B-202.4* 8 FOR THE ENTIRE HARDSHIP EXCEPTION) WHEN THE ADJUSTED CONSTRUCTION COST IS LESS THAN OR EQUAL TO THE CURRENT VALUATION THRESHOLD, THE COST OF COMPLIANCE WITH CBC *11B-202.4* SHALL BE LIMITED TO 20% OF THE ADJUSTED CONSTRUCTION COST OF ALTERATIONS, STRUCTURAL REPAIRS OR ADDITIONS. WHEN THE COST OF FULL COMPLIANCE WITH *11B-202.4* WOULD EXCEED 20%, COMPLIANCE SHALL BE PROVIDED TO THE GREATEST EXTENT POSSIBLE WITHOUT EXCEEDING 20%

11B-203: GENERAL EXCEPTIONS:

11B-203.2: CONSTRUCTION SITES. STRUCTURES DIRECTLY ASSOCIATED WITH THE PROCESS OF CONSTRUCTION SHALL NOT BE REQUIRED TO COMPLY (EG:CONSTRUCTION TRAILERS, SCAFFOLDING, MATERIAL STORAGE).

11B-203.4: LIMITED ACCESS SPACES. SPACES NOT CUSTOMARILY OCCUPIED AND ACCESS ONLY BY LADDERS, CATWALKS, CRAWL SPACES, OR VERY NARROW PASSAGEWAYS SHALL NOT BE REQUIRED TO COMPLY.

11B-203.5: MACHINERY SPACES. SPACES FREQUENTED BY SERVICE PERSONNEL FOR MAINTENANCE, REPAIR OR OCCASIONAL MONITORING OF EQUIPMENT SHALL NOT BE REQUIRED TO COMPLY.

11B-206: ACCESSIBLE ROUTES:

11B-206.1: SITE ARRIVAL POINTS: AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN THE SITE FROM ACCESSIBLE PARKING SPACES AND PASSENGER LOADING ZONES, PUBLIC STREETS AND SIDEWALKS, AND PUBLIC TRANSPORTATION STOPS TO THE ACCESSIBLE BUILDING ENTRANCE.

11B-206.2.2: AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS, AND ACCESSIBLE SPACES THAT ARE ON THE SAME SITE.

11B-206.2.3: MULTI-STORY BUILDINGS AND FACILITIES: AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT EACH STORY AND MEZZANINE IN MULTI-STORY BUILDINGS AND FACILITIES.

(*SEE EXCEPTIONS TO 11B-206.2.3: ACCESSIBLE ROUTES*)

11B-206.3: ACCESSIBLE ROUTES SHALL COINCIDE WITH OR BE LOCATED IN THE SAME AREA AS GENERAL CIRCULATION PATHS. AN ACCESSIBLE ROUTE SHALL NOT PASS THROUGH KITCHENS, STORAGE ROOMS, RESTROOMS, CLOSETS OR OTHER SPACES USED FOR SIMILAR PURPOSES, EXCEPT AS PERMITTED BY CHAPTER 10.

11B-206.4: ENTRANCES SHALL BE ON AN ACCESSIBLE ROUTE (SEE *11B-404*).

EXCEPTIONS TO 11B-206.4.1

1. EXTERIOR GROUND FLOOR EXITS SERVING SMOKE PROOF ENCLOSURES
STAIRWELLS, AND EXIT DOORS SERVING STAIRS ONLY SHALL NOT BE REQUIRED TO COMPLY.
2. EXITS IN EXCESS OF THOSE REQUIRED BY CBC CHAPTER 10, AND WHICH
ARE GREATER THAN 24 INCHES ABOVE THE ADJACENT GRADE SHALL NOT BE REQUIRED TO COMPLY WITH *11B-404*. DIRECTIONAL WARNING SIGNS COMPLYING WITH *11B-703.5* SHALL BE POSTED STATING SUCH DOORS ARE NOT ACCESSIBLE.

11B-207.1: ACCESSIBLE MEANS OF EGRESS SHALL COMPLY WITH CBC CHAP. 10, 1007.

11B-208: PARKING SPACES

11B-208.2: THE MINIMUM NUMBER OF PARKING SPACES SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 11B-208.2

11B-208.2.4: PROVIDE 4 VAN ACCESSIBLE PARKING SPACES FOR EVERY SIX OR FRACTION OF SIX PARKING SPACES REQUIRED BY *11B-208.2* TO COMPLY WITH 11B-502.

11B-208.3.1: THE LOCATION OF ACCESSIBLE PARKING SPACES SHALL BE ON THE SHORTEST ACCESSIBLE ROUTE FROM PARKING TO AN ENTRANCE COMPLYING TO

11B-206.4. WHERE PARKING SERVICES MORE THAN ONE ACCESSIBLE ENTRANCE PARKING SPACES COMPLYING WITH *11B-502* SHALL BE DISPERSED AND LOCATED ON THE SHORTEST ACCESSIBLE ROUTE TO ACCESSIBLE ENTRANCES.

11B-209.2.1 PROVIDE AT LEAST ONE COMPLIANT PASSENGER LOADING ZONE IN EVERY CONTINUOUS 100 LINEAR FEET OF LOADING ZONE SPACE OR FRACTION THEREOF.

11B-213: TOILET FACILITIES AND BATHING FACILITIES

11B-213.2: WHERE TOILET ROOMS AND BATHING ROOMS ARE PROVIDED, EACH SHALL COMPLY WITH *11B-603*.

EXCEPTION TO 11B-213.2

1. IN ALTERATIONS WHERE IT IS TECHNICALLY INFEASIBLE TO COMPLY WITH *11B-603*, ALTERING TOILET OR BATHING ROOMS SHALL NOT BE REQUIRED WHERE A SINGLE UNISEX TOILET ROOM OR BATHING ROOM COMPLYING WITH *11B-213.2.1* IS PROVIDED AND IS LOCATED IN THE SAME AREA AND ON THE SAME FLOOR AS THE EXISTING INACCESSIBLE TOILET OR BATHING ROOMS.
4. WHERE MULTIPLE SINGLE USER TOILET ROOMS ARE CLUSTERED AT A SINGLE LOCATION, 50% BUT NO FEWER THAN ONE, OF THE SINGLE USER TOILET ROOMS FOR EACH USE AT EACH CLUSTER SHALL COMPLY WITH *11B-603*.

11B-213.2.1: UNISEX TOILET ROOMS SHALL CONTAIN NO NOT MORE THAN ONE LAVATORY, AND NOT MORE THAN TWO WATER CLOSETS WITHOUT URINALS OR ONE WATER CLOSET AND ONE URINAL. UNISEX BATHING ROOMS SHALL CONTAIN ONE SHOWER OR ONE SHOWER AND ONE BATHTUB, ONE LAVATORY AND ONE WATER CLOSET. DOORS TO UNISEX FACILITIES SHALL HAVE PRIVACY DOOR LOCKS.

11B-213.3: PLUMBING FIXTURES AND ACCESSORIES

11B-213.3.1: TOILET COMPARTMENTS.

1. WHERE LESS THAN 6 TOILET COMPARTMENTS ARE PROVIDED, AT LEAST ONE TOILET COMPARTMENT SHALL COMPLY WITH SECTION *11B-604.8.1*.
2. WHERE 6 OR MORE TOILET COMPARTMENTS ARE PROVIDED,

OR

WHERE THE COMBINATION OF URINALS AND WATER CLOSETS TOTAL 6 OR MORE, AT LEAST ONE COMPARTMENT SHALL COMPLY WITH SECTION *11B-604.8.2*.

11B-213.3.2: WATER CLOSETS. WHERE WATER CLOSETS ARE PROVIDED, AT LEAST ONE SHALL BE ACCESSIBLE AND COMPLY WITH SECTION *11B-604*.

11B-213.3.3: URINALS. WHERE ONE OR MORE URINALS ARE PROVIDED, AT LEAST ONE SHALL BE ACCESSIBLE AND COMPLY WITH SECTION *11B-605*.

11B-213.3.4: LAVATORIES. WHERE LAVATORIESARE PROVIDED, AT LEAST 5% BUT NO FEWER THAN ONE (1) SHALL BE ACCESSIBLE AND COMPLY WITH SECTION *11B-606*.

11B-213.3.5: MIRRORS. WHERE MIRRORS ARE PROVIDED, AT LEAST ONE (1) SHALL BE ACCESSIBLE AND COMPLY WITH SECTION *11B-603.3*.

11B-213.3.6: BATHING FACILITIES SHALL COMPLY WITH THIS SECTION.

11B-213.3.7: COAT HOOKS AND SHELVING ACCESSORIES. PROVIDED IN ACCESSIBLE TOILET COMPARTMENTS, AT LEAST ONE (1) OF EACH TYPE SHALL COMPLY WITH THIS SECTION. COAT HOOKS SHALL BE LOCATED WITHIN ONE OF THE ACCESSIBLE REACH RANGES. SHELVES SHALL BE LOCATED 40-INCHES MINIMUM AND 48-INCHES MAXIMUM HEIGHT ABOVE THE FINISH FLOOR.

11B-214: WASHING MACHINES AND CLOTHES DRYERS. WHERE THREE OR FEWER CLOTHES WASHING MACHINES AND/OR DRYERS ARE PROVIDED, AT LEAST ONE (1) SHALL COMPLY WITH *11B-611*. WHERE GREATER THAN THREE ARE PROVIDED, AT LEAST TWO SHALL COMPLY WITH *11B-611*.

11B-215.1: FIRE ALARM SYSTEMS SHALL PROVIDE AUDIBLE ALARM COVERAGE IN BOTH PUBLIC USE AREAS AND COMMON USE AREAS.

EXCEPTION: IN EXISTING FACILITIES VISIBLE ALARMS SHALL NOT BE REQUIRED EXCEPT WHERE AN EXISTING FIRE ALARM SYSTEM IS UPGRADED OR REPLACED, OR A NEW FIRE ALARM SYSTEM IS INSTALLED.

11B-215.2: VISIBLE FIRE ALARM SYSTEMS SHALL BE PROVIDED IN BOTH PUBLIC USE AND COMMON USE AREAS. (SEE THIS SECTION FOR TYPICAL AREAS AND SPACES)

11B-216: SIGNS. NEW OR ALTERED SIGNS THAT PROVIDE DESIGNATIONS, LABELS, OR NAMES FOR INTERIOR ROOMS AND SPACES WHERE THE SIGN IS NOT LIKELY TO CHANGE OVER TIME SHALL COMPLY WITH THE REQUIREMENTS FOR RAISED CHARACTERS, BRAILLE AND VISUAL CHARACTERS. WHERE PICTOGRAMS ARE PROVIDED, THESE SHALL ALSO COMPLY WITH RESPECT TO RAISED AND VISUAL CHARACTERS. (SEE ALSO 11B-703).

11B-219: ASSISTIVE LISTENING DEVICES SHALL BE PROVIDED IN ASSEMBLY AREAS, INCLUDING CONFERENCE ROOMS AND MEETING ROOMS .

11B-219.3: THE MINIMUM NUMBER OF RECEIVERS SHALL BE EQUAL TO 4% OF THE TOTAL NUMBER OF SEATS, BUT NOT LESS THAN TWO RECEIVERS. 25% MINIMUM OF RECEIVERS PROVIDED SHALL BE HEARING AID COMPATIBLE.

11B-221.1: ASSEMBLY AREAS SEATING SHALL BE PROVIDED WITH WHEELCHAIR SPACES, COMPANION SEATING, DESIGNATED AISLE SEATS AND SEMI-AMBULATORY SEATING, AND SHALL ALSO COMPLY WITH SECTION 11B-802.

11B-229: WINDOWS. WHERE GLAZED OPENINGS ARE PROVIDED IN ACCESSIBLE ROOMS OR SPACES FOR OPERATION BY THE OCCUPANTS, AT LEAST ONE(1) OPENING SHALL COMPLY WITH SECTION 11B-309 REGARDING OPERABLE PARTS.

11B-309.4: OPERABLE PARTS ARE OPERABLE WITH ONE HAND AND DO NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE NO GREATER THAN 5 LBS. MAXIMUM.

11B-247: DETECTABLE WARNINGS. DETECTABLE WARNINGS SHALL CONSIST OF A SURFACE OF TRUNCATED DOMES AND SHALL COMPLY WITH: *11B-705*.

11B-247.1.2.1: PLATFORM EDGES. PROVIDE A DETECTABLE WARNING SURFACE AT PLATFORM EDGES 24-INCHES WIDTH AND SHALL EXTEND THE FULL LENGTH OF THE PUBLIC USE AREA OF THE PLATFORM. DETECTABLE WARNINGS AT PLATFORM EDGES SHALL ALSO COMPLY WITH SECTIONS *11B-705.1.1* AND *11B-705.1.2.2*.

11B-247.1.2.2: CURB RAMPS. DETECTABLE WARNINGS AT CURB RAMPS SHALL EXTEND 36-INCHES IN THE DIRECTION OF TRAVEL. DETECTABLE WARNINGS SHALL EXTEND THE FULL WIDTH OF THE RAMP RUN EXCLUDING ANY FLARED SIDES. DETECTABLE WARNINGS SHALL BE LOCATED SO THE EDGE NEAREST THE CURB IS 6-INCHES MINIMUM AND 8-INCHES MAXIMUM FROM THE LINE AT THE FACE OF CURB MARKING THE TRANSITION BETWEEN THE CURB AND GUTTER, STREET OR HIGHWAY. DETECTABLE WARNINGS AT CURB RAMPS SHALL ALSO COMPLY WITH SECTIONS *11B-705.1.1* AND *11B-705.1.2.2*.

11B-247.1.2.3: ISLANDS OR CUT-THROUGH MEDIANS. DETECTABLE WARNINGS AT PEDESTRIAN ISLANDS OR CUT-THROUGH MEDIANS SHALL BE 36-INCHES MINIMUM IN DEPTH EXTENDING THE FULL WIDTH OF THE PEDESTRIAN PATHOR CUT-THROUGH, PLACED AT THE EDGES OF THE PEDESTRIAN ISLAND OR CUT-THROUGH MEDIAN, AND SHALL BE SEPARATED AT THE EDGES BY 24-INCHES MINIMUM OF WALKING SURFACE WITHOUT DETECTABLE WARNINGS. DETECTABLE WARNINGS AT ISLAND OR CUT-THROUGH MEDIANS SHALL ALSO COMPLY WITH SECTIONS *11B-705.1.1* AND *11B-705.1.2.2*.

11B-302: FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT.

11B-302.2: CARPET, CARPET TILES AND RUGS. SHALL BE FIRM, STABLE AND WHEELCHAIR FIRM CUSHION, PAD, BACKING, OR NO CUSHION OR PAD. CARPET OR CARPET TILES SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL-CUT PILE OR LEVEL-CUT/UNCUT PILE TEXTURE. PILE HEIGHT SHALL BE 1/2-INCH MAXIMUM. THE CARPET OR CARPET TILE EDGE TRIM SHALL COMPLY WITH SECTION *11B-303.3*.

11B-302.3: OPENINGS IN FLOOR OR GROUND SURFACES SHALL NOT ALLOW PASSAGE OF A SPHERE GREATER THAN 1/2-INCHES IN DIAMETER. EXCEPT AS NOTED FOR AN ELEVATOR PLATFORM-TO-HOISTWAY CLEARANCE PER *11B-407.4.3*.

11B-303: CHANGES IN FLOOR LEVEL

11B-303.2: VERTICAL CHANGES IN LEVEL OF 1/4-INCH HIGH MAXIMUM ARE PERMITTED TO BE VERTICAL AND WITHOUT EDGE TREATMENT.

11B-303.3: CHANGES IN LEVEL BETWEEN 1/4-INCHES HIGH AND 1/2-INCHES HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.

11B-303.4: CHANGES IN LEVEL GREATER THAN 1/2-INCH HIGH SHALL BE RAMPED AND SHALL COMPLY WITH APPLICABLE PROVISIONS FOR RAMPS *11B-405*.

11B-303.5: ABRUPT CHANGES IN LEVEL EXCEEDING 4-INCHES IN A VERTICAL DIMENSION BETWEEN WALKS, SIDEWALKS OR OTHER PEDESTRIAN WAYSAND ADJACENT SURFACES SHALL BE IDENTIFIED BY WARNING CURBS AT 6-INCHES IN HEIGHT ABOVE THE WALK SURFACE OR SIDEWALK SURFACE.

EXCEPTION: A WARNING CURB IS NOT REQUIRED BETWEEN A WALK OR SIDEWALK AND AN ADJACENT STREET OR HIGHWAY.

11B-304: TURNING SPACE

11B-304.2: TURNING SPACES SHALL NOT BE SLOPED GREATER THAN 1:48.

11B-304.3.1: CIRCULAR TURNING SPACE SHALL BE 60-INCHES DIAMETER MINIMUM. THE SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE THAT COMPLIES WITH SECTION *11B-306*.

11B-304.3.2: T-SHAPED TURNING SPACE SHALL FIT WITHIN A MINIMUM 60-INCH SQUARE WITH A MINIMUM WITH ARMS AND BASE 36-INCHES WIDE MINIMUM. EACH ARM OF THE T SHALL BE CLEAR OF OBSTRUCTIONS 12-INCHES MINIMUM IN EACH DIRECTION AND THE BASE SHALL BE CLEAR OF OBSTRUCTIONS 24-INCHES MINIMUM. THE SPACE SHALL BE PERMITTED TO INCLUDE COMPLIANT KNEE AND TOE CLEARANCE ONLY AT THE END OF EITHER THE BASE OR ONE ARM. SEE ALSO SECTION *11B-306* KNEE AND TOE CLEARANCE.

11B-304.4: DOORS SHALL BE PERMITTED TO SWING INTO TURNING SPACES.

11B-305: CLEAR FLOOR OR GROUND SPACE

11B-305.2: CHANGES IN FLOOR LEVELS ARE NOT PERMITTED, EXCEPT SLOPES LESS THAN 1:48.

11B-305.3: THE CLEAR FLOOR OR GROUND SPACE IS 30-INCHES MINIMUM BY 48-INCHES MINIMUM. UNLESS OTHERWISE SPECIFIED, A CLEAR FLOOR OR GROUND SPACE IS PERMITTED TO INCLUDE COMPLIANT KNEE AND TOE CLEARANCE.

11B-305.5: UNLESS OTHERWISE SPECIFIED, A CLEAR FLOOR OR GROUND SPACE IS POSITIONED FOR EITHER A FORWARD OR PARALLEL APPROACH.

11B-306: TOE CLEARANCE

11B-306.2.1: TOE SPACE SHALL EXTEND 9-INCHES MINIMUM ABOVE THE FINISH FLOOR.

11B-306.2.2: TOE CLEARANCE SHALL EXTEND 25-INCHES MAXIMUM UNDER AN ELEMENT.

11B-306.2.3: REQUIRED TOE CLEARANCE AT AN ELEMENT AS A PART OF A CLEAR FLOOR SPACE SHALL EXTEND 17-INCHES MINIMUM UNDER THE ELEMENT.

EXCEPTIONS: THE TOE CLEARANCE SHALL EXTEND 19-INCHES MINIMUM UNDER SINKS THAT ARE REQUIRED TO BE ACCESSIBLE. BUILT-IN DINING AND WORK SURFACES THAT ARE REQUIRED TO BE ACCESSIBLE.

11B-306.2.5: TOE CLEARANCE SHALL BE 30-INCHES WIDE MINIMUM.

11B-306.3: KNEE CLEARANCE

11B-306.3.1: SPACE UNDER A FIXED ELEMENT BETWEEN 9-INCHES AND 27-INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED KNEE CLEARANCE.

11B-306.3.2: KNEE CLEARANCE EXTENDS 25-INCHES MAXIMUM UNDER AN ELEMENT AT 9-INCHES ABOVE THE FINISH FLOOR OR GROUND.

11B-306.3.3: WHERE KNEE CLEARANCE IS REQUIRED AT AN ELEMENT AS A PART OF CLEAR FLOOR SPACE, THE KNEE CLEARANCE IS 11-INCHES DEEP MINIMUM AT 9-INCHES ABOVE THE FINISH FLOOR OR GROUND, AND 8-INCHES DEEP MINIMUM AT 27-INCHES ABOVE THE FINISH FLOOR OR GROUND.

EXCEPTIONS: AT ACCESSIBLE LAVATORIES THE KNEE CLEARANCE SHALL BE 27-INCHES HIGH MINIMUM ABOVE FINISH FLOOR AT A DEPTH OF 8-INCHES MINIMUM INCREASING TO 29-INCHES HIGH MINIMUM ABOVE THE FINISH FLOOR AT THE FRONT EDGE OF A COUNTER WITH A BUILT-IN LAVATORY OR WALL MOUNTED LAVATORY FIXTURE.

11B-306.5: KNEE CLEARANCE SHALL BE 30-INCHES WIDE MINIMUM.

11B-307: PROTRUDING OBJECTS

11B-307.2: OBJECTS WITH LEADING EDGES GREATER THAN 27-INCHES HIGH AND LESS THAN 80-INCHES HIGH ABOVE THE FINISH FLOOR OR GROUND MAY PROTRUDE 4-INCHES MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH.

11B-307.3: FREE-STANDING OBJECTS MOUNTED ON POSTS OR PYLONS MAY OVERHANG CIRCULATION PATHS 12-INCHES MAXIMUM HORIZONTALLY WHEN LOCATED GREATER THAN 27-INCHES HIGH AND LESS THAN 80-INCHES HIGH ABOVE THE FINISH FLOOR OR GROUND.

11B-307.3: WHERE A SIGN OR OBSTRUCTION IS MOUNTED BETWEEN POSTS OR PYLONS AND THE CLEAR DISTANCE BETWEEN THE POSTS OR PYLONS IS GREATER THAN 12-INCHES, THE LOWEST EDGE OF SUCH A SIGN OR OBSTRUCTION IS 27-INCHES MAXIMUM OR 80-INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

11B-307.4 VERTICAL CLEARANCE IS A MINIMUM OF 80-INCHES HIGH ABOVE THE FINISH FLOOR OR GROUND. GUARDRAILS OR OTHER BARRIERS ARE PROVIDED WHERE THE VERTICAL CLEARANCE IS LESS THAN 80-INCHES. THE LEADING EDGE OF GUARDRAIL OR OTHER BARRIER IS LOCATED AT 27-INCHES ABOVE THE FINISH FLOOR OR GROUND. WHERE A GUY-WIRE SUPPORT IS PARALLEL TO A CIRCULATION PATH INCLUDING, BUT NOT LIMITED TO, SIDEWALKS, A GUY-BRACE, SIDEWALK GUY, OR SIMILAR DEVICE SHALL BE USED TO PREVENT AN OVERHANGING OBSTRUCTION.

11B-307.5: PROTRUDING OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH REQUIRED FOR ACCESSIBLE ROUTES.

11B-308: REACH RANGES

11B-308.2.1: WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH IS 48-INCHES MAXIMUM AND THE LOW FORWARD REACH IS 15-INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND. A CLEAR FLOOR OR GROUND SPACE THAT IS 30-INCHES WIDE BY 48-INCHES DEEP MINIMUM PROVIDES FOR A FRONT APPROACH DIRECTLY IN FRONT OF THE OBJECT.

11B-308.2.2: WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, A MINIMUM 30-INCHES WIDE BY 48-INCHES DEEP CLEAR FLOOR OR GROUND SPACE SHALL EXTEND BENEATH THE OBSTRUCTING OBJECT OR ELEMENT FOR A DISTANCE OF NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTING OBJECT OR ELEMENT. THE HIGH FORWARD REACH IS 48-INCHES MAXIMUM WHERE THE REACH DEPTH IS 20-INCHES MAXIMUM. WHERE THE REACH DEPTH EXCEEDS 20-INCHES, THE HIGH FORWARD REACH IS REDUCED TO 44-INCHES MAXIMUM AND THE REACH DEPTH IS 25-INCHES MAXIMUM.

11B-308.3.1: WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT OR OBJECT AND THE SIDE REACH IS UNOBSTRUCTED THE HIGH SIDE REACH IS 48-INCHES AND THE LOW SIDE REACH IS 15-INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND. A CLEAR FLOOR SPACE THAT IS

30-INCHES BY 48-INCHES MINIMUM PROVIDES A PARALLEL APPROACH TO THE ELEMENT AT A DISTANCE OF 10-INCHES MAXIMUM FROM THE ELEMENT.

11B-402.2: ACCESSIBLE ROUTES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING COMPONENTS: WALKING SURFACES WITH A RUNNING SLOPE OF NOT STEEPER THAN 1:20, DOORWAYS, RAMPS, CURB RAMPS EXCLUDING THE FLARED SIDES, ELEVATORS AND PLATFORM
LIFTS. ALL COMPONENTS OF AN ACCESSIBLE ROUTE SHALL COMPLY AS REQUIRED.

11B-403: WALKING SURFACES.

11B-403.3: THE RUNNING SLOPE OF WALKING SURFACES IS NOT STEEPER THAN 1:20 (5%). THE CROSS SLOPE OF WALKING SURFACES IS NOT STEEPER THAN 1:48 (2.08%).

EXCEPTION: THE RUNNING SLOPE OF SIDEWALKS SHALL NOT EXCEED THE GENERAL GRADE ESTABLISHED FOR THE ADJACENT STREET OR HIGHWAY.

11B-403.5.1: CLEAR WIDTH OF WALKING SURFACES IS 36-INCHES MINIMUM. EXCEPTIONS:

1. THE CLEAR WIDTH SHALL BE PERMITTED TO BE REDUCED TO 32-INCHES MINIMUM FOR A LENGTH OF 24-INCHES MAXIMUM PROVIDED THAT REDUCED WIDTH SEGMENT IS SEPARATEDBY SEGMENTS THAT ARE 48-INCHES LENGTH AND 36-INCHES WIDTH MINIMUM.
2. THE CLEAR WIDTH FOR WALKING SURFACES IN CORRIDORS SERVING AN OCCUPANT LOAD OF 10 OR MORE SHALL BE 44-INCHES.
3. THE CLEAR WIDTH FOR SIDEWALKS AND WALKS SHALL BE 48-INCHES MINIMUM. WHEN, BECAUSE OF RIGHT-OF-WAY RESTRICTIONS, NATURAL BOUNDARIES OR OTHER EXISTING CONDITIONS, THE ENFORCING AGENCY DETERMINES THAT COMPLIANCE WITH THE 48-INCHES CLEAR WIDTH WOULD CREATE AN UNREASONABLE HARDSHIP, THE CLEAR WIDTH MAY BE REDUCED TO 36-INCHES.
4. THE CLEAR WIDTH FOR AISLES SHALL BE 36-INCHES MINIMUM SERVING ELEMENTS ON ONLY ONE SIDE, AND 44-INCHES MINIMUM IF SERVING ELEMENTS ON BOTH SIDES.

11B-403.5.2: WHERE THE ACCESSIBLE ROUTE MAKES A 180-DEGREE TURN THAT IS LESS THAN 48-INCHES WIDTH, THE CLEAR WIDTH IS 42-INCHES MINIMUM APPROACHING THE TURN, 48-INCHES MINIMUM AT THE TURN AND 42-INCHES MINIMUM LEAVING THE TURN.

11B-403.5.3: PASSING SPACES IS AN ACCESSIBLE ROUTE WITH A CLEAR WIDTH LESS THAN 60-INCHES PROVIDES A PASSING SPACE AT INTERVALS OF 200-FEET MAXIMUM. THE PASSING SPACES ARE EITHER A SPACE THAT IS 60-INCHES MINIMUM BY 60-INCHES MINIMUM, OR AN INTERSECTION OF TWO WALKING SURFACES THAT PROVIDE A COMPLIANT T-SHAPED TURNING SPACE WHERE THE BASE AND ARMS OF THE T-SHAPED SPACE EXTEND 48-INCHES MINIMUM BEYOND THE INTERSECTION.

11B-403.7: ALL WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE RESTING AREAS, 5-FEET IN LENGTH, AT INTERVALS OF 400-FEET MAXIMUM.

LEVEL RESTING AREAS, PASSING AREAS, AND TURNING AREAS SHALL BE EQUAL IN WIDTH TO THE ACCESSIBLE WIDTH WITH A MAXIMUM SLOPING SURFACE NO GREATER THAN 1:48 (2.08%).

11B-404: DOORS, DOORWAYS AND GATES

EXCEPTIONS: DOORS DOORWAYS AND GATES DESIGNED TO BE OPERATED ONLY BY SECURITY PERSONNEL SHALL NOT BE REQUIRED TO COMPLY WITH THE ACCESSIBILITY REQUIREMENTS. A SIGN VISIBLE FROM THE APPROACH SIDE THAT COMPLIES WITH THE REQUIREMENTS FOR ACCESSIBLE VISUAL CHARACTERS SHALL BE POSTED STATING, "ENTRY RESTRICTED AND CONTROLLED BY SECURITY PERSONNEL".

11B-404.2.1: REVOLVING DOORS, REVOLVING GATES AND TURNSTILES ARE NOT A PART OF AN ACCESSIBLE ROUTE.

11B-404.2.2: AT LEAST ONE OF THE ACTIVE LEAVES OF DOUBLE-LEAF DOORS AND GATES SHALL BE COMPLIANT AS PART OF AN ACCESSIBLE ROUTE. SEE ALSO SECTIONS *11B-404.2.3* AND *11B-404.2.4*.

11B-404.2.3: CLEAR WIDTH

1. DOOR OPENINGS WITH SWING DOORS SHALL PROVIDE A CLEAR WIDTH OF 32-INCH MINIMUM, MEASURED BETWEEN THE FACE OF THE DOOR IN THE OPEN POSITION AND THE JAMB STOP WITH THE DOOR OPEN AT 90 DEGREES.
2. OPENINGS GREATER THAN 24-INCHES DEPTH SHALL PROVIDE A CLEAR OPENING WIDTH OF 36-INCHES MINIMUM.
3. NO PROJECTIONS ARE PERMITTED INTO THE REQUIRED CLEAR OPENING WIDTH LOWER THAN 34-INCHES ABOVE FINISH FLOOR OR GROUND.
4. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34-INCHES AND 80-INCHES ABOVE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4-INCHES INTO THE CLEAR OPENING SPACE.

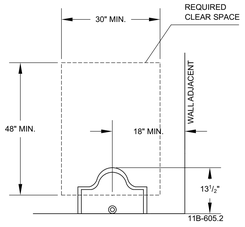
EXCEPTIONS: IN ALTERATIONS A PROJECTION OF 5/8-INCH MAXIMUM IS PERMITTED INTO THE REQUIRED CLEAR WIDTH FOR THE LATCH SIDE STOP. DOOR CLOSERS AND DOOR STOPS ARE PERMITTED TO BE 78-INCHES MINIMUM ABOVE FINISH FLOOR OR GROUND. DOORS, DOORWAYS AND GATES NOT PROVIDING FULL USER PASSAGE SHALL PROVIDE A CLEAR WIDTH OF 20-INCHES MINIMUM.

11B-404.2.4: MANEUVERING CLEARANCES SHALL EXTEND THE FULL WIDTH OF THE DOORWAY AND THE REQUIRED LATCH SIDE OR HINGE SIDE CLEARANCE. SEE ALSO FIGURES *11B-404.2.3* THROUGH *11B-404.2.6*.

11B-404.2.7: DOOR AND GATE HARDWARE

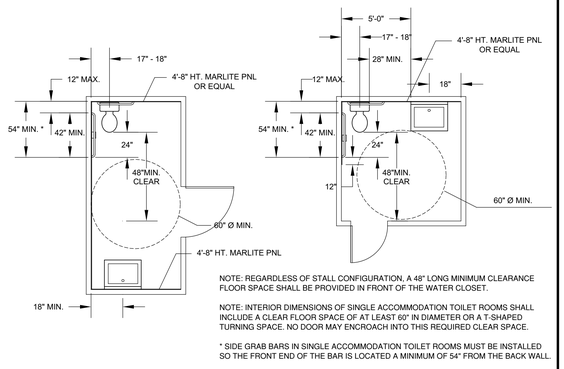
HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING PARTS ON DOORS AND GATES SHALL HAVE A SHAPE THAT IS OPERABLE WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE THE OPERABLE PARTS ON DOORS AND GATES SHALL BE 5 LBS MAXIMUM. OPERABLE HARDWARE PARTS SHALL BE CENTERED BETWEEN 34-INCHES MINIMUM AND 44-INCHES MAXIMUM ABOVE FINISHED FLOOR OR GROUND.

11B-404.2.9: DOOR AND G



4 PLAN VIEW OF URINAL

NO SCALE



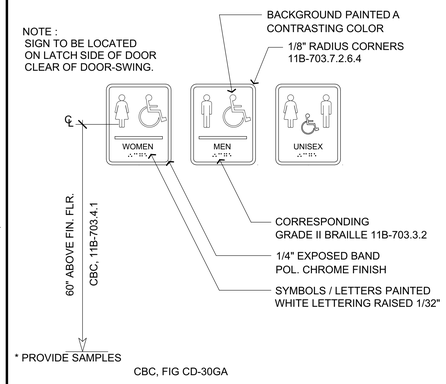
NOTE: REGARDLESS OF STALL CONFIGURATION, A 48" LONG MINIMUM CLEARANCE FLOOR SPACE SHALL BE PROVIDED IN FRONT OF THE WATER CLOSET.

NOTE: INTERIOR DIMENSIONS OF SINGLE ACCOMMODATION TOILET ROOMS SHALL INCLUDE A CLEAR FLOOR SPACE OF AT LEAST 60" IN DIAMETER OR A T-SHAPED TURNING SPACE. NO DOOR MAY ENCROACH INTO THIS REQUIRED CLEAR SPACE.

* SIDE GRAB BARS IN SINGLE ACCOMMODATION TOILET ROOMS MUST BE INSTALLED SO THE FRONT END OF THE BAR IS LOCATED A MINIMUM OF 54" FROM THE BACK WALL.

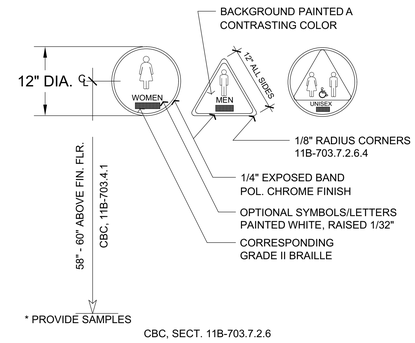
3 PLAN VIEW - TYPICAL ROOMS

NO SCALE



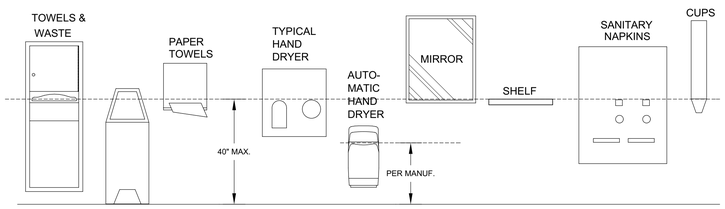
2 WALL MOUNTED SIGNAGE DETAIL

NO SCALE



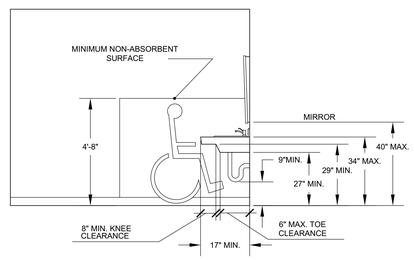
1 DOOR MOUNTED SIGNAGE DETAIL

NO SCALE



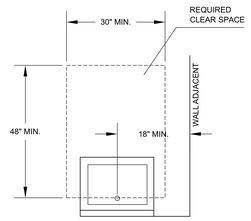
7 ELEVATION OF RESTROOM ACCESSORIES

NO SCALE



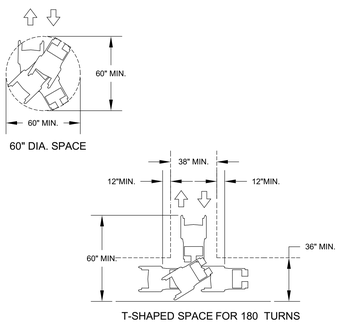
6 ELEVATION OF WALL MOUNTED LAVATORY

NO SCALE



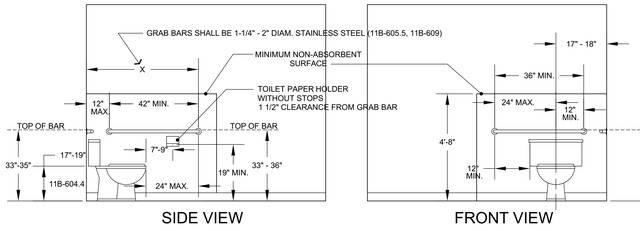
5 PLAN VIEW OF LAVATORY

NO SCALE



10 TYPICAL TURNING ACCESS CLEARANCES

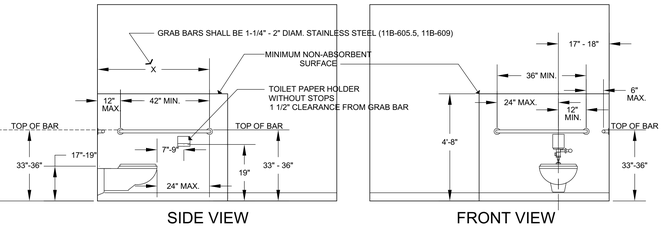
NO SCALE



SIDE VIEW FRONT VIEW

9 ELEVATION OF FLOOR MOUNTED TOILETS

NO SCALE



SIDE VIEW FRONT VIEW

8 ELEVATION OF WALL MOUNTED TOILETS

NO SCALE

ACCESSIBILITY GENERAL NOTES

1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN SHALL BE DISPLAYED AT ALL ACCESSIBLE RESTROOM FACILITIES AND AT ACCESSIBLE BUILDING ENTRANCES UNLESS ALL ENTRANCES ARE ACCESSIBLE. INACCESSIBLE ENTRANCES SHALL HAVE DIRECTIONAL SIGNS INDICATING THE NEAREST ACCESSIBLE ENTRANCE.
2. RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 18" ABOVE FINISH FLOOR. EXCEPTION: HEIGHT LIMITATIONS DO NOT APPLY WHERE THE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE, OR WHERE ELECTRICAL RECEPTACLES ARE NOT NORMALLY INTENDED.
3. WHERE EMERGENCY WARNING SYSTEMS ARE PROVIDED, THESE SYSTEMS SHALL INCLUDE BOTH AUDIBLE AND VISUAL ALARMS. THE VISUAL ALARMS SHALL BE LOCATED THROUGHOUT, INCLUDING RESTROOMS, AND PLACED EITHER 80" ABOVE FINISH FLOOR OR 6" BELOW FINISH CEILING, WHICHEVER IS LOWER.
4. DOORS TO ALL ACCESSIBLE SPACES SHALL HAVE ACCESSIBLE HARDWARE (ie.: LEVER-OPERATED, PUSH AND U-SHAPED PULLS) INSTALLED AT 34 - 44" A.F.F. (CBC, 11B-404.2.7)
5. FLOOR SURFACE (PER FINISH SCHEDULE) SHALL BE INSTALLED TO TO BE STABLE, FIRM & SLIP RESISTANT. CHANGES IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2. CHANGES IN LEVEL GREATER THAN 1/2" REQUIRE A RAMP. GRATINGS IN A FLOOR SURFACE SHALL HAVE SPACES NO GREATER THAN 1/2" WIDTH. DOORWAY THRESHOLDS AND SADDLES SHALL NOT EXCEED 1/2" HEIGHT.
6. GRAB BARS REQUIRED FOR ACCESSIBILITY SHALL BE 1 1/4" - 2" DIAMETER WITH 1 1/2" CLEAR SPACE BETWEEN THE BAR AND THE WALL. (CBC, 11B-609.2.1)
7. ACCESSIBLE WATER CLOSETS SHALL BE 17" - 19" FROM FLOOR TO TOP OF SEAT.GRAB BARS SHALL BE 36" LENGTH LOCATED BEHIND THE WATER CLOSET AND 42" LENGTH LOCATED ALONG THE SIDE, AND THE TOP OF THE GRAB BAR SHALL BE BETWEEN 33" - 36" ABOVE FINISH FLOOR.
8. ACCESSIBLE URINALS SHALL BE STALL TYPE OR WALL-HUNG TYPE, EACH WITH ELONGATED RIMS AT 17" MAXIMUM ABOVE FINISH FLOOR.
9. ACCESSIBLE LAVATORIES SHALL BE INSTALLED WITH THE RIM AT 34" MAX. ABOVE FINISH FLOOR AND A CLEARANCE OF 29" MIN. A.F.F. TO UNDERSIDE OF THE APRON.
10. ACCESSIBLE SINKS SHALL BE INSTALLED WITH THE RIM AT 34" MAX. A.F.F. AND AND CLEARANCE OF 27" MIN. HEIGHT x 30" WIDTH x 19" DEPTH UNDER THE SINK.
11. ALL WATER AND DRAIN PIPING UNDER ACCESSIBLE LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP NOR ABRASIVE SURFACES AND EDGES UNDER ACCESSIBLE LAVATORIES AND SINKS.
12. ACCESSIBLE LAVATORIES AND SINKS SHALL HAVE ACCESSIBLE FAUCETS AND VALVESETS (ie.: LEVER-OPERATED, PUSH-TYPE, ELECTRONICALLY CONTROLLED).
13. WHEN MIRRORS ARE INSTALLED IN RESTROOMS ABOVE THE ACCESSIBLE LAVATORY, IT SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE MIRRORED SURFACE AT 40" MAX. ABOVE THE FINISHED FLOOR.

RESTROOM ACCESSIBILITY CODE REFERENCES

1. TOILET ROOMS SHALL COMPLY WITH CBC, SECT. 11B-603.
2. ALL OPERABLE PARTS OF TOILET ROOM ACCESSORIES SHALL BE 40-INCHES HT. MAXIMUM ABOVE FINISH FLOOR. (11B-603.5)
3. THE CENTER LINE OF THE ACCESSIBLE TOILET SHALL BE 17 TO18 INCHES FROM THE SIDEWALL OR PARTITION. (11B-604.2)
4. CLEARANCE AROUND AN ACCESSIBLE TOILET SHALL BE 60-INCHES MINIMUM MEASURED PERPENDICULAR FROM THE SIDE WALL AND 56-INCHES FOR A WALL-MOUNTED TOILET MEASURED PERPENDICULAR FROM THE REAR WALL. (11B-604.3.1 AND 11B-604.8.1)
5. CLEARANCE IN FRONT OF THE TOILET SHALL BE 60-INCHES MINIMUM WIDTH AND 48-INCHES DEPTH MANEUVERING SPACE. (11B-604.3.1)
6. FLUSH VALVES, MANUALLY OPERATED OR AUTOMATIC, SHALL BE LOCATED ON THE OPEN SIDE OF THE COMPARTMENT AND 44-INCH HT. MAXIMUM. (11B-604.6)
7. TOILET TISSUE DISPENSERS SHALL BE 7"-9" IN FRONT OF THE TOILET AS MEASURED TO THE CENTER LINE OF THE DISPENSER, AND 19-INCHES MINIMUM ABOVE THE FINISH FLOOR. (11B-604.7)
8. WHEELCHAIR ACCESSIBLE TOILET COMPARTMENTS SHALL BE 60-INCHES WIDTH MINIMUM AND 56-INCHES DEPTH FOR WALL-HUNG TOILETS, OR 59-INCHES DEPTH FOR FLOOR MOUNTED TOILETS WHEN AT LEAST ONE SIDE WALL PROVIDES 9-INCH HEIGHT TOE SPACE UNDER. (11B-604.3.1 AND 11B-604.8.1)
9. WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT DOORS SHALL BE 34-INCHES WIDTH MINIMUM CLEAR OPENING AND BE SELF-CLOSING. (11B-604.8.1.2)
10. GRAB BARS SHALL BE 1 1/4" - 2" DIAM. AND BE INSTALLED AT 1 1/2" MAXIMUM FROM THE WALL IT IS MOUNTED ON. (11B-604.8.1.5 AND 11B-609)
11. AMBULATORY ACCESSIBLE COMPARTMENTS SHALL BE 35"-37" WIDTH AND 60-INCHES DEPTH MINIMUM. (11B-604.8.2.1)
12. URINAL SHALL BE INSTALLED WITH THE FRONT RIM 17-INCHES ABOVE FINISH FLOOR AND 13 1/2" DEPTH MINIMUM. (11B-605.2, 11B-605.4 AND 11B-305)
13. MANUAL LEVER FLUSH VALVES FOR TOILETS AND URINALS SHALL HAVE A OPERATING FORCE NO GREATER THAN 5LBS. MAXIMUM, OPERATE WITH ONE HAND, AND NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. (11B-309.4)
14. LAVATORIES SHALL BE INSTALLED AT 34-INCHES HT. WITH 29-INCHES UNDER COUNTER CLEARANCE, AND CLEAR FLOOR SPACE. (11B-606, 11B-606.4 AND 11B-305)
15. TOILET ROOM ACCESSIBILITY DOOR SYMBOLS SHALL COMPLY WITH CBC, SECT. 11B-703.7.2.6.

THESE ARE TYPICAL CONDITIONS AND DIMENSIONS OF RESTROOMS. THIS INFORMATION SHALL BE USED AS REFERENCE FOR **ALL** RESTROOMS.

REVISIONS / DESCRIPTION	DATE	BY
GENERAL UPDATE PER JM REVIEW	AUG 11, 2017	SES REC
ADD PRR RELATED DWGS: ADA + IE FINAL CONSTRUCTION SUBMITTAL	AUG 31, 2017	SES REC
1		
2		
3		
4		

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ROY E COLBERT

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PLANNING
DESIGN

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CALIFORNIA C12050
N.C.A.R.B.

ISSUED FOR CONSTRUCTION

LICENSED ARCHITECT ROY E. COLBERT CALIFORNIA C12050 RENEWS 0-31-2017 STATE OF CALIFORNIA

This project has been designed by me, or under my direct supervision.

VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

VENTURA COLLEGE
4667 Telegraph Road
Ventura, CA 93003

DEPARTMENT OF MAINTENANCE & OPERATIONS
4900 Loma Vista Road
Ventura, CA 93003

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Ken Lucci
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VENTURA COLLEGE MAINTENENCE & OPERATIONS INTERIOR TENANT IMPROVEMENT M BUILDING

TYPICAL DISABLED ACCESS RESTROOM DETAILS

SHEET NAME :

10 JULY 2017

DATE :

1" ACTUAL
IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1) EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ACTUAL MEASUREMENT OF ALL LABELED SCALES.

AS SHOWN — SCALE:
SES — DRAWN BY:

C16- 013 — ARCHITECT PROJECT #:
P 0107586 — VCCCD PROJECT #:

A-006

SHEET NUMBER : OF SHEETS

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS.

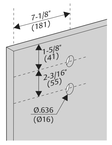
ISSUED FOR CONSTRUCTION

VC_M&O_ADMIN_TI_r3_v002.pln - Thursday, October 05, 2017

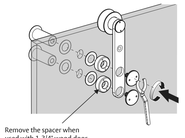
PEMKO W100 SERIES - INSTALLATION INSTRUCTIONS

1. Prepare hanger.
   Remove anti-rise pin from hanger using tool provided.

2. Prepare door for hangers.
   Using Template provided, drill holes centered in door thickness for hanger anchors using a 16mm bit.

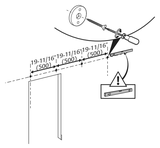


3. Mount hangers to door.

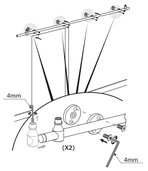


4. Attach brackets.
   Locate centerline of track as shown on first page. Using a level, mark a horizontal line twice the door width long. Mark bracket screw locations, as shown on first page, into **WALL BLOCKING**. Attach wall portion of brackets as shown.

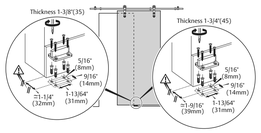
   If applying track to gypsum board, use 1-1/2" hole saw to remove gypsum board at bracket locations. Use appropriate spacer kit, sold separately, to replace gypsum board removed by 1-1/2" hole saw.



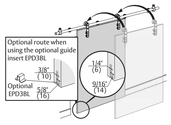
5. Secure track.
   Attach track to wall brackets as shown. Insert stops into track ends.



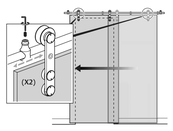
6. Fit door guide to floor.
   Mark for position of door guide.
   Check post fasteners for tightness.
   Mount door guide to floor with anchors and ST5.5 x 32 screws.



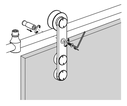
7. Hang door.
   Route bottom of door to receive floor mounted guide as shown. Lift door onto track. Make adjustments to hangers so that door is plumb.



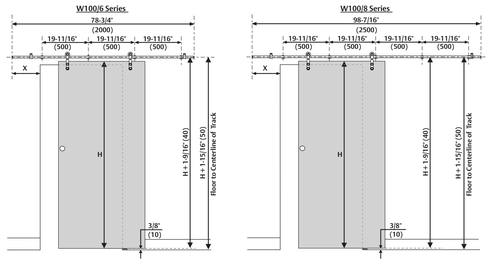
8. Adjust stops.
   Adjust stops accordingly. Tighten set screw with sufficient force to drive set screw into bar after final adjustment.



9. Re-attach anti-rise pin into hangers.



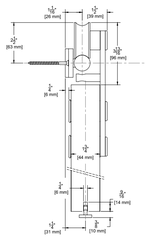
WARNING: Must be installed into wall blocking.
If you have questions about what type of wall blocking is required, consult a structural engineer.

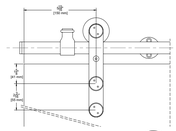


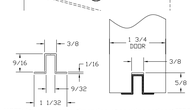
Stainless Steel Sliding Track Hardware System

W100 Series for Wood Doors

For Sliding Panels up to 198 lbs.







NOTE: Alternate route dimension when using optional EPD38L

Configurations:
- Single
- Bi-parting

Installations:
- Side Wall Mount (only)

Features:
- Made of 304 stainless steel
- Nylon coated stainless steel wheel for smooth operation
- 198 lb. panel capacity
- 5 year warranty

Finishes:
- Brushed Stainless Steel (W100)
- Black Powder Coated Stainless Steel (W100D)
- Polished Stainless Steel (W100P)
- Satin Bronze Powder Coated Stainless Steel (W100BE)

W80 Kits Include:

1 ea **BAR/_** Stainless Steel Track
– **BRACKET2** Stainless Steel Wall Brackets
2 ea **111** Stainless Steel Hangers
1 ea **102SS-KIT** Stainless Steel Guide
2 ea **STOP2** Stainless Steel Stops Mounting Hardware

NOTE: If ordering individual parts in the optional Black Powder Coat, Polished finishes or Satin Bronze be sure to include a prefix "D" for Black Powder Coat, "P" for Polished Stainless, or BE for Satin Bronze Powder Coat

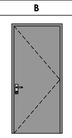
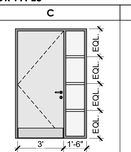
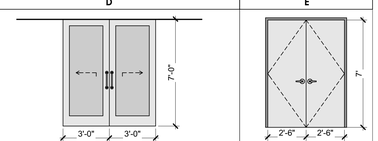
Standard Kit Sizes			
Part Number	Material	Track Length	Door Width
W100/6	304 Stainless Steel	78 11/16"	36"
W100/8	304 Stainless Steel	98 11/16"	48"
W100D/6	Black Powder Coated Stainless Steel	78 11/16"	36"
W100D/8	Black Powder Coated Stainless Steel	98 11/16"	48"
W100P/6	304 Polished Stainless Steel	78 11/16"	36"
W100P/8	304 Polished Stainless Steel	98 11/16"	48"
W100BE/6	Satin Bronze Powder Coated Stainless Steel	78 11/16"	36"
W100BE/8	Satin Bronze Powder Coated Stainless Steel	98 11/16"	48"

Options: See page 265

Bottom Channel	**94A**
Roller Guide	**106R/94**
Mortise Guides	**102N**
Polypropylene Guide Rail	**EPD38L** For Use With 102N
5/8" Spacer	**BLD-SPACER-58** Pack of 5 5/8" Spacer Recommended for use with 5/8" Gypsum Board When Mounting Track Directly to Gypsum Board
1/2" Spacer	**BLD-SPACER-12** Pack of 5 1/2" Spacer Recommended for use with 1/2" Gypsum Board When Mounting Track Directly to Gypsum Board
3/8" Spacer	**BLD-SPACER-38** Pack of 5 3/8" Spacer Recommended for use with 3/8" Gypsum Board When Mounting Track Directly to Gypsum Board

ASSA ABLOY

DOOR TYPES

TYPE	A	B	C	D	E
VIEW					
DIMS	3'x6'-8"	3'x7'	3'x7'	5'-9"x6'-10" OPENING	5'x7' OPENING
NOTES	@ SHOWER LOCATIONS - FINISH TO BE APPROVED FOR HIGH MOISTURE EXPOSURE	ADD STAINLESS STEEL KICK PLATE TO DOOR STOP SIDE OF DOOR.	STANDARD OFFICE DOOR W/SIDELITE	DOUBLE SLIDING BARN DOOR @ CONFERENCE ROOM. MOUNT USING PEMKO W100 HARDWARE KIT - FRENCH DOORS TO MATCH OFFICE DOORS w/WHITE TRANSLUCENT PRIVACY GLASS MOUNT TO CORRIDOR WALL - SEE SPECS THIS SHEET	DOUBLE DOOR

FINISH SCHEDULE

REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION

NUMBER	NAME	STATUS	FLOOR	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	BASE NORTH	BASE EAST	BASE SOUTH	BASE WEST	CEILING	HEIGHT	REMARKS
				ALL WALLS UNLESS NOTED OTHERWISE: PAINT DUNN-EDWARDS DE 6365 "COLD MORNING"				ALL BASE UNLESS NOTED OTHERWISE: PINNACLE RUBBER WALL BASE 4" COVE - "SLATE"						
000	ENTRY-LOBBY		SINAK - RELAY MICROTOPPING OVR (E) SLAB									ACOUSTIC CEILING TILE	9'	
100	CONFERENCE		CARPET	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	ACOUSTIC CEILING TILE	9'	
101	OFFICE - JAY		CARPET	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	ACOUSTIC CEILING TILE	9'	
102	OFFICE - MARTIN		CARPET	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	ACOUSTIC CEILING TILE	9'	
103	OFFICE - HILDA		CARPET	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	ACOUSTIC CEILING TILE	9'	
104	OFFICE		CARPET	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	ACOUSTIC CEILING TILE	9'	
105	OFFICE - SUSAN		CARPET	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	ACOUSTIC CEILING TILE	9'	
106	OFFICE - JOE		CARPET	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	ACOUSTIC CEILING TILE	9'	
107	OFC - VICTOR		CARPET	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	ACOUSTIC CEILING TILE	9'	
108	OFFICE - CHECK-IN		SINAK - RELAY MICROTOPPING OVR (E) SLAB	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	ACOUSTIC CEILING TILE	9'	
109	LUNCH ROOM		SINAK - RELAY MICROTOPPING OVR (E) SLAB	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	ACOUSTIC CEILING TILE	9'	
110	RECEPTION		SINAK - RELAY MICROTOPPING OVR (E) SLAB	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	ACOUSTIC CEILING TILE	9'	
111	CORRIDOR		CARPET	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	ACOUSTIC CEILING TILE	9'	
112	CORRIDOR		CARPET	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	ACOUSTIC CEILING TILE	9'	
113	CORRIDOR		CARPET	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	ACOUSTIC CEILING TILE	9'	
114	CORRIDOR		SINAK - RELAY MICROTOPPING OVR (E) SLAB	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	ACOUSTIC CEILING TILE	9'	
115	WOMEN RR		12"x12" TILE - SEE SPECS	12x24 TILE -TO 7FT HIGH - SEE SPECS	12x24 TILE -TO 7FT HIGH - SEE SPECS	12x24 TILE -TO 7FT HIGH - SEE SPECS	12x24 TILE -TO 7FT HIGH - SEE SPECS	---	---	---	---	GYP. BD TYPE X - PAINTED	9'	
116	MEN RR		12"x12" TILE - SEE SPECS	12x24 TILE -TO 7FT HIGH - SEE SPECS	12x24 TILE -TO 7FT HIGH - SEE SPECS	12x24 TILE -TO 7FT HIGH - SEE SPECS	12x24 TILE -TO 7FT HIGH - SEE SPECS	---	---	---	---	GYP. BD TYPE X - PAINTED	9'	
117	WMN SHWR		12"x12" TILE - SEE SPECS	12x24 TILE -TO 7FT HIGH - SEE SPECS	12x24 TILE -TO 7FT HIGH - SEE SPECS	12x24 TILE -TO 7FT HIGH - SEE SPECS	12x24 TILE -TO 7FT HIGH - SEE SPECS	---	---	---	---	GYP. BD TYPE X - PAINTED	9'	
118	MEN SHWR		12"x12" TILE - SEE SPECS	12x24 TILE -TO 7FT HIGH - SEE SPECS	12x24 TILE -TO 7FT HIGH - SEE SPECS	12x24 TILE -TO 7FT HIGH - SEE SPECS	12x24 TILE -TO 7FT HIGH - SEE SPECS	---	---	---	---	GYP. BD TYPE X - PAINTED	9'	
119	LOCKER RM		SINAK - RELAY MICROTOPPING OVR (E) SLAB	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	GYP. BD TYPE X - PAINTED	9'	
120	JNTR/UTLTY		SINAK - RELAY MICROTOPPING OVR (E) SLAB	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"		OPEN	
121	PPE STORAGE		CARPET	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	ACOUSTIC CEILING TILE	9'	
122	STORAGE		CARPET	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	ACOUSTIC CEILING TILE	9'	
123	SERVER CLST		CARPET	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	ACOUSTIC CEILING TILE	9'	
124	STORAGE		CARPET	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	PAINT - DE6365	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	4" COVE "SLATE"	GYP. BD TYPE X - PAINTED	9'	

REFER TO SPECIFICATIONS SECTION 081416 FOR ADDITIONAL INFORMATION ON DOORS

INTERIOR DOOR SCHEDULE - NEW & EXISTING TO REMAIN

DOOR ID	RENOVATION STATUS	RM #	LOCATION	OPENING W x H Size	FLOOR	QTY	OPERATION	DOOR TYPE	THICKNESS / TYPE	MATERIAL / FINISH	POSITION	NOTES / REMARKS
D01	New	101	OFFICE - JAY	3'x7'	1st FLOOR	1	HINGED	TYPE C	1 3/4" / HOLLOW METAL (H.M.) DR & FRAMES	H.M. / PAINTED DE795 "GRAY PEARL"	Interior	STANDARD OFFICE DOOR W/SIDELITE
D02	New	102	OFFICE - MARTIN	3'x7'	1st FLOOR	1	HINGED	TYPE C	1 3/4" / HOLLOW METAL (H.M.) DR & FRAMES	H.M. / PAINTED DE795 "GRAY PEARL"	Interior	STANDARD OFFICE DOOR W/SIDELITE
D03	New	103	OFFICE - HILDA	3'x7'	1st FLOOR	1	HINGED	TYPE C	1 3/4" / HOLLOW METAL (H.M.) DR & FRAMES	H.M. / PAINTED DE795 "GRAY PEARL"	Interior	STANDARD OFFICE DOOR W/SIDELITE
D04	New	105	OFFICE - SUSAN	3'x7'	1st FLOOR	1	HINGED	TYPE C	1 3/4" / HOLLOW METAL (H.M.) DR & FRAMES	H.M. / PAINTED DE795 "GRAY PEARL"	Interior	STANDARD OFFICE DOOR W/SIDELITE
D05	New	107	OFC - VICTOR	3'x7'	1st FLOOR	1	HINGED	TYPE C	1 3/4" / HOLLOW METAL (H.M.) DR & FRAMES	H.M. / PAINTED DE795 "GRAY PEARL"	Interior	STANDARD OFFICE DOOR W/SIDELITE
D06	New	104	OFFICE	3'x7'	1st FLOOR	1	HINGED	TYPE C	1 3/4" / HOLLOW METAL (H.M.) DR & FRAMES	H.M. / PAINTED DE795 "GRAY PEARL"	Interior	STANDARD OFFICE DOOR W/SIDELITE
D07	New	106	OFFICE - JOE	3'x7'	1st FLOOR	1	HINGED	TYPE C	1 3/4" / HOLLOW METAL (H.M.) DR & FRAMES	H.M. / PAINTED DE795 "GRAY PEARL"	Interior	STANDARD OFFICE DOOR W/SIDELITE
D08	New	121	PPE STORAGE	3'x7'	1st FLOOR	1	HINGED	TYPE B	1 3/4" / HOLLOW METAL (H.M.) DR & FRAMES	H.M. / PAINTED DE795 "GRAY PEARL"	Interior	STANDARD OFFICE DOOR W/SIDELITE
D10	New	123	SERVER CLST	3'x7'	1st FLOOR	1	HINGED	TYPE B	1 3/4" / HOLLOW METAL (H.M.) DR & FRAMES	H.M. / PAINTED DE795 "GRAY PEARL"	Interior	STANDARD OFFICE DOOR W/SIDELITE
D11	New	122	STORAGE	3'x7'	1st FLOOR	1	HINGED	TYPE B	1 3/4" / HOLLOW METAL (H.M.) DR & FRAMES	H.M. / PAINTED DE795 "GRAY PEARL"	Interior	STANDARD OFFICE DOOR W/SIDELITE
D12	New	111	CORRIDOR	5'-9" x 6'-10" FIN OPENING (2) DOORS @ 3'-0" x 7'-0"	1st FLOOR	1	DOUBLE BARN DOOR	TYPE D	2 X 1 3/4" H.M. FRENCH DOORS W/ TRANSLUCENT WHITE GLASS	H.M. / PAINTED DE795 "GRAY PEARL"	Interior	DOUBLE SLIDING BARN DOOR @ CONFERENCE ROOM. MOUNT USING PEMKO W100 HARDWARE KIT - FRENCH DOORS TO MATCH OFFICE DOORS w/WHITE TRANSLUCENT PRIVACY GLASS MOUNT TO CORRIDOR WALL - SEE SPECS THIS SHEET
D13	New	120	JNTR/UTLTY	3'x7'	1st FLOOR	1	HINGED	TYPE B	1 3/4" / HOLLOW METAL (H.M.) DR & FRAMES	H.M. / PAINTED DE795 "GRAY PEARL"	Interior	ADD STAINLESS STEEL KICK PLATE TO DOOR STOP SIDE OF DOOR.
D14	New	118	MEN SHWR	3'x6'-8"	1st FLOOR	1	HINGED	TYPE A	1 3/4" / HOLLOW METAL (H.M.) DR & FRAMES	H.M. / PAINTED DE795 "GRAY PEARL"	Interior	@ SHOWER LOCATIONS - FINISH TO BE APPROVED FOR HIGH MOISTURE EXPOSURE
D15	New	117	WMN SHWR	3'x6'-8"	1st FLOOR	1	HINGED	TYPE A	1 3/4" / HOLLOW METAL (H.M.)	H.M. / PAINTED DE795 "GRAY PEARL"	Interior	STANDARD OFFICE DOOR W/SIDELITE
D16	New	112	CORRIDOR	5'x7' (2) 2'-6" x 7'-0"	1st FLOOR	1	DBL DR-HINGED	TYPE E	1 3/4" / HOLLOW METAL (H.M.) DR & FRAMES	H.M. / PAINTED DE795 "GRAY PEARL"	Interior	DOUBLE DOOR
ED-1 (EXISTING)	Existing	112	CORRIDOR @ EXTERIOR ENTRY	3'x7'	1st FLOOR	1	HINGED		EXISTING	EXISTING / PAINT INT. DE795 "GRAY PEARL"	Exterior	INSTALL NEW EXTERIOR CORROSION RESISTANT DOOR HANDLES - SUBMIT SAMPLE FOR REVIEW
ED-2 (EXISTING)	Existing	000	ENTRY-LOBBY @ EXTERIOR ENTRY	6'x7'	1st FLOOR	1	DBL DR-HINGED		EXISTING	EXISTING / PAINT INT. DE795 "GRAY PEARL"	Exterior	INSTALL NEW EXTERIOR CORROSION RESISTANT DOOR HANDLES - SUBMIT SAMPLE
ED-3 (EXISTING)	Existing	109	LUNCH ROOM @ EXTERIOR ENTRY	6'x7'	1st FLOOR	1	DBL DR - HINGED		EXISTING	EXISTING / PAINT INT. DE795 "GRAY PEARL"	Exterior	INSTALL NEW EXTERIOR CORROSION RESISTANT DOOR HANDLES - SUBMIT SAMPLE
ED-4 (EXISTING)	Existing	124	STORAGE	3'x7'	1st FLOOR	1	HINGED		EXISTING	H.M. / PAINT DE795 "GRAY PEARL"	Interior	PAINT TO MATCH OTHER NEW INTERIOR DOORS
ED-5 (EXISTING)	Existing	115	WOMEN RR	3'x7'	1st FLOOR	1	HINGED		EXISTING	H.M. / PAINTED DE795 "GRAY PEARL"	Interior	PAINT TO MATCH OTHER NEW INTERIOR DOORS
ED-6 (EXISTING)	Existing	116	MEN RR	3'x7'	1st FLOOR	1	HINGED		EXISTING	H.M. / PAINTED DE795 "GRAY PEARL"	Interior	PAINT TO MATCH OTHER NEW INTERIOR DOORS
ED-7 (EXISTING)	Existing	119	LOCKER RM	3'x7'	1st FLOOR	1	HINGED		EXISTING	H.M. / PAINTED DE795 "GRAY PEARL"	Interior	PAINT TO MATCH OTHER NEW INTERIOR DOORS

ED = EXISTING DOOR

THIS PLAN IS BASED UPON DATACOMPILED AND FURNISHED BY OTHERS.

REVISIONS / DESCRIPTION	DATE	BY
GENERAL UPDATE PER JM REVIEW	AUG 11, 2017	SES REC
ADD RR RELATED DWGS: ADA + IE FINAL CONSTRUCTION SUBMITTAL	AUG 31, 2017	SES REC
1		
2		
3		
4		

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ROY E COLBERT

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PLANNING
DESIGN

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roolb@sbcglobal.net

CALIFORNIA C12050
N.C.A.R.B.

ISSUED FOR CONSTRUCTION

LICENSED ARCHITECT ROY E. COLBERT CALIFORNIA C12050 RENEWS 0-31-2017 STATE OF CALIFORNIA

This project has been designed by me, or under my direct supervision.

VENTURA COUNTY
COMMUNITY COLLEGE
DISTRICT

VENTURA COLLEGE
4667 Telegraph Road
Ventura, CA 93003

DEPARTMENT OF
MAINTENANCE &
OPERATIONS
4900 Loma Vista Road
Ventura, CA 93003

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jcollings@collingsandassociates.com

VENTURA COLLEGE
MAINTENENCE & OPERATIONS
INTERIOR TENANT IMPROVEMENT
M BUILDING

FINISH SCHEDULE & DOOR SCHEDULE, TYPE & NOTES

SHEET NAME : 10 JULY 2017

DATE :

1" ACTUAL

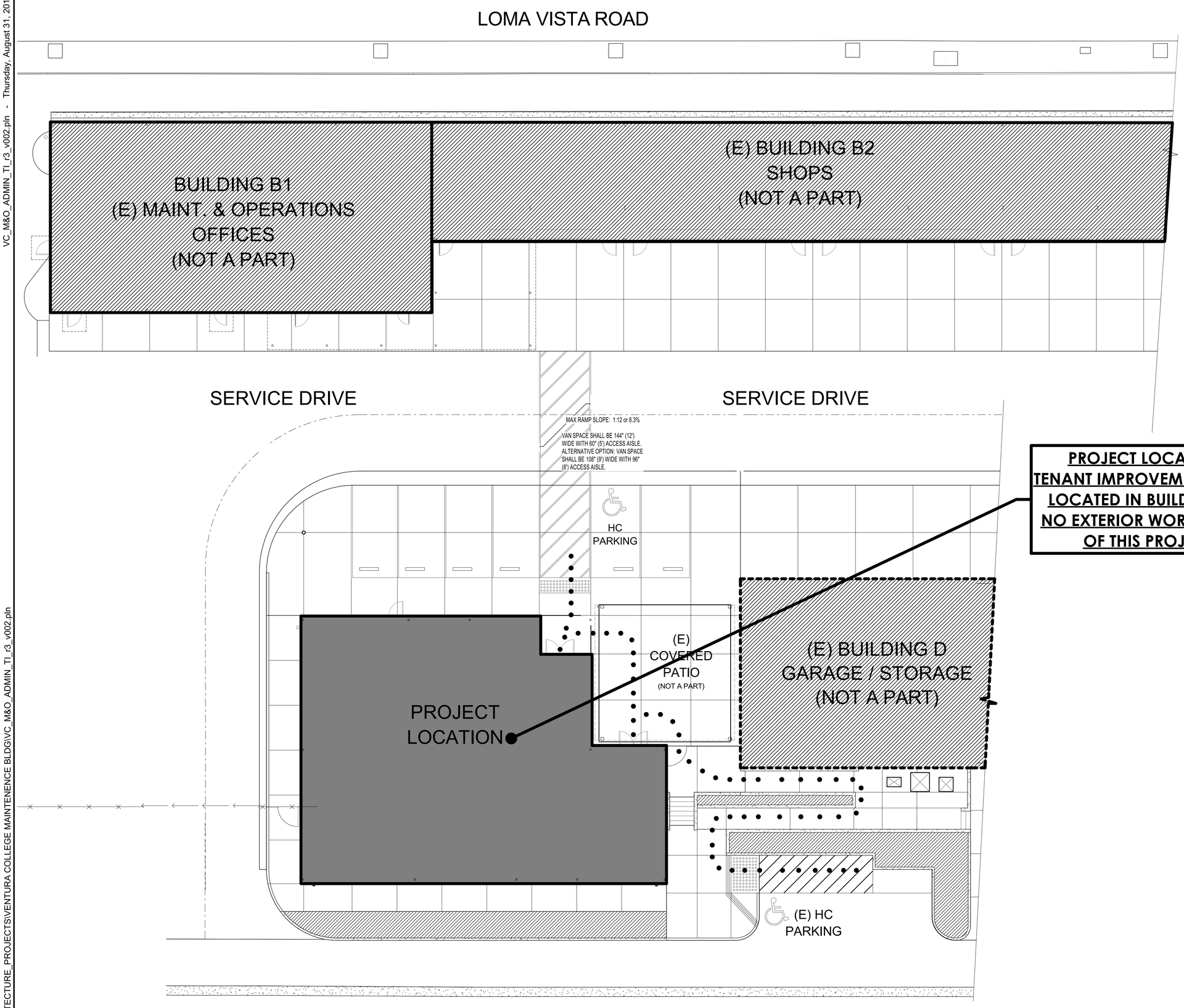
IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ACTUAL MEASUREMENT OF ALL LABELED SCALES.

SCALE: AS SHOWN — DRAWN BY: SES

ARCHITECT PROJECT #: C16- 013 — VCCCD PROJECT #: P 0107586

SHEET NUMBER : **A-007** OF SHEETS

F:\A_ARCHITECTURE_PROJECTS\VENTURA COLLEGE MAINTENENCE BLDG\VC_M&O_ADMIN_TI_r3_v002.pln



PROJECT LOCATION:
TENANT IMPROVEMENT WORK
LOCATED IN BUILDING
NO EXTERIOR WORK IS PART
OF THIS PROJECT

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

0 4' 8' 16'

SITE PLAN NOTES

A.
ALL ACCESSIBLE STALL LOADING AREA TO MAINTAIN MAX RUNNING AND CROSS SLOPE OF 2%.

B.
ALL CURB RAMP TO BE MAX 1:12 OR OF 8.33% SLOPE.

C.
ALL EXISTING PATH OF TRAVEL AREA IS LESS THAN 5% SLOPE.

D.
CONTRACTOR TO VERIFY RAMP IS COMPLIANT WITH THE 2016 CBC AS ARE ALL HANDRAILS FOR RAMP AND STAIRS.

E.
NOT USED

F.
FOR ADDITIONAL GENERAL NOTES, LEGENDS, AND SCHEDULES, REFER TO A-001 THROUGH A-006

G.
AREAS NOT MARKED OR HIGHLIGHTED OR CALLED OUT PER LEGEND ARE NOT IN CONTRACT ON THIS SHEET, TYPICAL.

H.
GC TO PROVIDE DUST PROTECTION THROUGHOUT DEMOLITION AND CONSTRUCTION.

I.
ARCHITECT HAS CONDUCTED NO TEST FOR, AND MADE NO DETERMINATION OF, THE PRESENCE OR LACK OF ASBESTOS OR OTHER HAZARDOUS OR TOXIC SUBSTANCES.

J.
ALL WORK SHOWN REFLECTS AS-BUILT MEASUREMENTS, HOWEVER, ANY NEW MODIFICATIONS TO THE BLDG SHALL REQUIRE FIELD VERIFICATION OF ALL DIMENSIONS SHOWN ON THIS PLAN PRIOR TO COMMENCING WORK.

REVISIONS / DESCRIPTION	DATE	BY
GENERAL UPDATE PER JM REVIEW	AUG 11, 2017	SES REC
ADD PR RELATED DWGS: ADA + IE FINAL CONSTRUCTION SUBMITTAL	AUG 31, 2017	SES REC
1		
2		
3		
4		

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ROY E COLBERT

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DESIGN

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CALIFORNIA C12050
N.C.A.R.B.

ISSUED FOR CONSTRUCTION

LICENSED ARCHITECT ROY E. COLBERT LICENSE C12050 RENEWS 10-31-2017 STATE OF CALIFORNIA

This project has been designed by me, or under my direct supervision.

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VENTURA COLLEGE
MAINTENENCE & OPERATIONS
INTERIOR TENANT IMPROVEMENT
M BUILDING

SITE PLAN W/ EXISTING CONDITIONS
SHEET NAME :

10 JULY 2017
DATE :

1" ACTUAL
IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THE DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ACTUAL MEASUREMENT OF ALL LABELED SCALES.

AS SHOWN — SCALE:
SES — DRAWN BY:

C16- 013 — ARCHITECT PROJECT #:
P 0107586 — VCCCD PROJECT #:

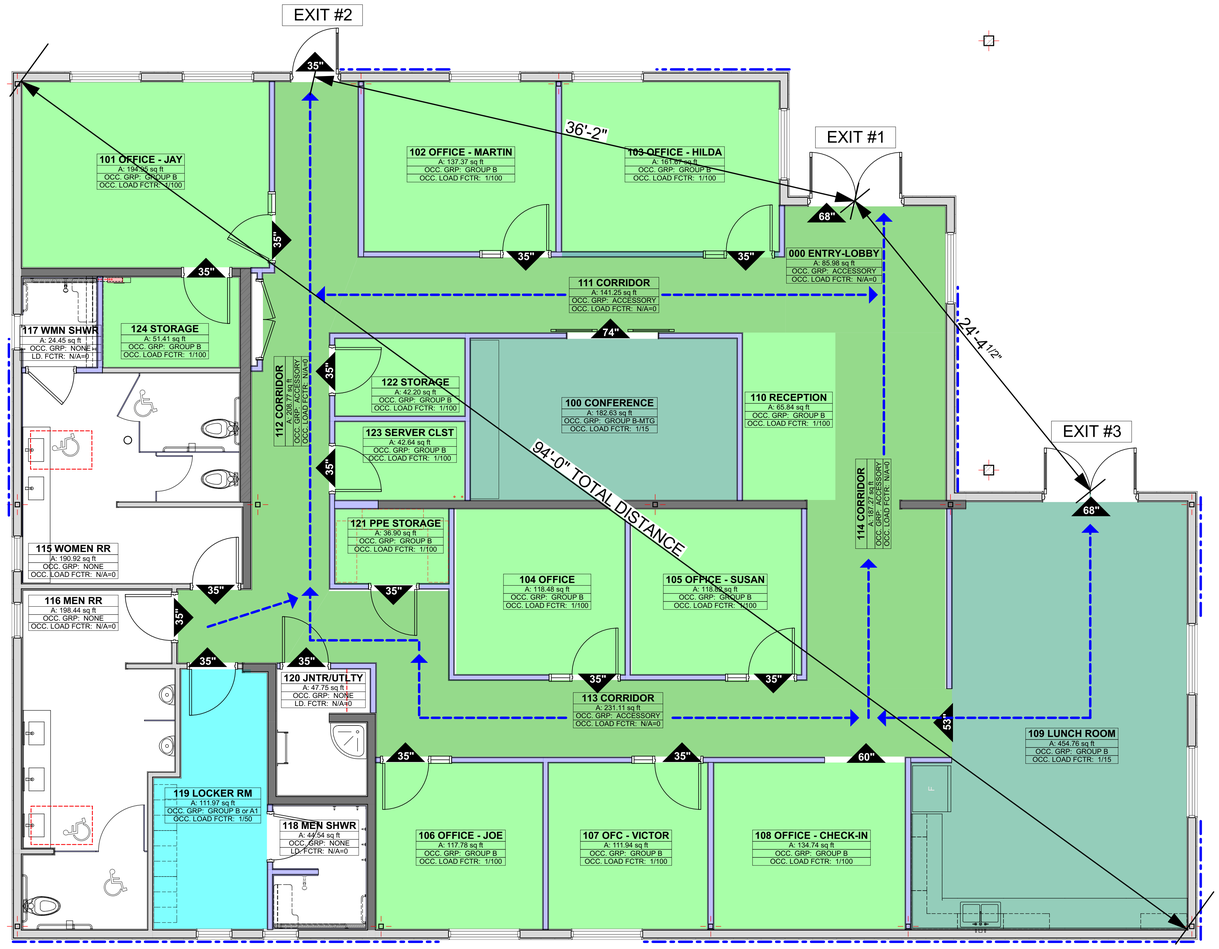
A-101
SHEET NUMBER : OF SHEETS

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS

VC_M&O_ADMIN_TI_r3_v002.pln - Thursday, August 31, 2017

F:\A_ARCHITECTURE_PROJECTS\VENTURA COLLEGE MAINTENENCE BLDG\VC_M&O_ADMIN_TI_r3_v002.pln

VC_M&O_ADMIN_TI_r3_v002.pln - Thursday, August 31, 2017



1 1st FLOOR - EGRESS PLAN

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

0 2' 4' 8'

FIRST FLOOR OCCUPANCY BY ROOM NUMBER

RM #	ROOM NAME	OCCUPANCY GROUP DESIGNATION	OCCUPANCY USE	AREA (s.f.)
000	ENTRY-LOBBY	CIRCULATION	HALL / EXIT CORRIDOR	85.98
100	CONFERENCE	OCC GRP B-Mtg	BUSINESS / CONFERENCE	182.63
101	OFFICE - JAY	OCC GRP B	BUSINESS/OFFICE	194.95
102	OFFICE - MARTIN	OCC GRP B	BUSINESS/OFFICE	137.37
103	OFFICE - HILDA	OCC GRP B	BUSINESS/OFFICE	161.67
104	OFFICE	OCC GRP B	BUSINESS/OFFICE	118.48
105	OFFICE - SUSAN	OCC GRP B	BUSINESS/OFFICE	118.82
106	OFFICE - JOE	OCC GRP B	BUSINESS/OFFICE	117.78
107	OFC - VICTOR	OCC GRP B	BUSINESS/OFFICE	111.94
108	OFFICE - CHECK-IN	OCC GRP B	BUSINESS/OFFICE	134.74
109	LUNCH ROOM	OCC GRP B-Mtg	BUSINESS / CONFERENCE	454.76
110	RECEPTION	OCC GRP B	BUSINESS/OFFICE	65.84
111	CORRIDOR	CIRCULATION	HALL / EXIT CORRIDOR	141.25
112	CORRIDOR	CIRCULATION	HALL / EXIT CORRIDOR	208.77
113	CORRIDOR	CIRCULATION	HALL / EXIT CORRIDOR	231.11
114	CORRIDOR	CIRCULATION	HALL / EXIT CORRIDOR	187.27
115	WOMEN RR	(none)	NO OCC. GROUP	190.92
116	MEN RR	(none)	NO OCC. GROUP	198.44
117	WMN SHWR	(none)	NO OCC. GROUP	24.45
118	MEN SHWR	(none)	NO OCC. GROUP	44.54
119	LOCKER RM	OCC GRP B-LkrRm	BUSINESS/LOCKER ROOM	111.97
120	JNTR/UTLTY	(none)	NO OCC. GROUP	47.75
121	PPE STORAGE	OCC GRP B	BUSINESS/OFFICE	36.90
122	STORAGE	OCC GRP B	BUSINESS/OFFICE	42.20
123	SERVER CLST	OCC GRP B	BUSINESS/OFFICE	42.64
124	STORAGE	OCC GRP B	BUSINESS/OFFICE	51.41

OCCUPANCY FIRST FLOOR: EXIT / CORRIDOR ACCESSORY SPACE (NO LOAD FACTOR)

RM #	ROOM NAME	OCCUPANCY GROUP DESIGNATION	OCCUPANCY USE	AREA (s.f.)	LOAD FACTOR
000	ENTRY-LOBBY	CIRCULATION	HALL / EXIT CORRIDOR	85.98	
111	CORRIDOR	CIRCULATION	HALL / EXIT CORRIDOR	141.25	
112	CORRIDOR	CIRCULATION	HALL / EXIT CORRIDOR	208.77	
113	CORRIDOR	CIRCULATION	HALL / EXIT CORRIDOR	231.11	
114	CORRIDOR	CIRCULATION	HALL / EXIT CORRIDOR	187.27	
				854.38 sq ft	

OCCUPANCY FIRST FLOOR: ACCESSORY SPACES (NO LOAD FACTOR)

RM #	ROOM NAME	OCCUPANCY GROUP DESIGNATION	OCCUPANCY USE	AREA (s.f.)	LOAD FACTOR
115	WOMEN RR	(none)	NO OCC. GROUP	190.92	
116	MEN RR	(none)	NO OCC. GROUP	198.44	
117	WMN SHWR	(none)	NO OCC. GROUP	24.45	
118	MEN SHWR	(none)	NO OCC. GROUP	44.54	
120	JNTR/UTLTY	(none)	NO OCC. GROUP	47.75	
				506.10 sq ft	

OCCUPANCY FIRST FLOOR: GROUP B - MEETING OR GATHERING AREA

RM #	ROOM NAME	OCCUPANCY GROUP DESIGNATION	OCCUPANCY USE	AREA (s.f.)	LOAD FACTOR	OCC LOAD
100	CONFERENCE	OCC GRP B-Mtg	BUSINESS / CONFERENCE	182.63	15	12
109	LUNCH ROOM	OCC GRP B-Mtg	BUSINESS / CONFERENCE	454.76	15	30
				637.39 sq ft		**42**

OCCUPANCY FIRST FLOOR: GROUP B - BUSINESS OFFICE

RM #	ROOM NAME	OCCUPANCY GROUP DESIGNATION	OCCUPANCY USE	AREA (s.f.)	LOAD FACTOR	OCC LOAD
101	OFFICE - JAY	OCC GRP B	BUSINESS/OFFICE	194.95	100	2
102	OFFICE - MARTIN	OCC GRP B	BUSINESS/OFFICE	137.37	100	1
103	OFFICE - HILDA	OCC GRP B	BUSINESS/OFFICE	161.67	100	2
104	OFFICE	OCC GRP B	BUSINESS/OFFICE	118.48	100	1
105	OFFICE - SUSAN	OCC GRP B	BUSINESS/OFFICE	118.82	100	1
106	OFFICE - JOE	OCC GRP B	BUSINESS/OFFICE	117.78	100	1
107	OFC - VICTOR	OCC GRP B	BUSINESS/OFFICE	111.94	100	1
108	OFFICE - CHECK-IN	OCC GRP B	BUSINESS/OFFICE	134.74	100	1
110	RECEPTION	OCC GRP B	BUSINESS/OFFICE	65.84	100	1
121	PPE STORAGE	OCC GRP B	BUSINESS/OFFICE	36.90	100	1
122	STORAGE	OCC GRP B	BUSINESS/OFFICE	42.20	100	1
123	SERVER CLST	OCC GRP B	BUSINESS/OFFICE	42.64	100	1
124	STORAGE	OCC GRP B	BUSINESS/OFFICE	51.41	100	1
				1,334.74 sq ft		**15**

TOTAL OCCUPANCY LOAD: 57

OCCUPANT LOAD CALCULATIONS

BREAKDOWN OF OCCUPANT LOAD:	PER CBC SEC. 1004.1.1
TOTAL POSSIBLE OCCUPANTS (SEE CALCULATIONS THIS SHEET)	1ST FLR: 57
	2ND FLR: n/a

CODE CODE REQUIREMENTS (based on sprinklered bldg.)

CODE	CODE REQUIREMENTS	First Floor	Second Floor
SEC 1005.1	EGRESS WIDTH/ PERSON SERVED	.2 IN/ PERSON	.2 IN/ PERSON
SEC 1005.1	EGREES WIDTH REQUIRED	57 x .2 = 11.4" (44" MIN)	N/A
	EGREES WIDTH PROVIDED	15'-0"	N/A
SEC 1021.1	NUMBER OF EXITS REQUIRED	2	N/A
	NUMBER OF EXITS PROVIDED	3	N/A
SEC 1015.2	BUILDING DIAGONAL	94'-0" (1/2=47')	N/A
SEC 1015.2.1 (N/A)	DISTANCE BETWEEN EXITS	36'-2" <1/2 OF DIAGONAL	N/A
SEC 1016.1	MAXIMUM TRAVEL DISTANCE UNTIL 2 EGRESS ROUTE OPTIONS	0 < 200'-0"	N/A
SEC 1014.3	COMMON PATH OF EGRESS TRAVEL MAX. DISTANCE	100'-0"	N/A
	DISTANCE PROVIDED	< 100'-0"	N/A
EXITING LOAD CALCULATIONS PER CALIFORNIA BUILDING CODE 2016 (CHAPTER 10)			

EGRESS NOTES

A	AFTER BUILDING IS OCCUPIED, ANY CHANGE IN USE OR OCCUPANCY WHICH CAUSES AN INCREASE IN OCCUPANT LOAD SHALL COMPLY WITH ALL OF THE REQUIREMENTS FOR THE INCREASED LOAD.
B	EXIT SIGNS ILLUMINATED BY AN EXTERNAL SOURCE SHALL HAVE AN INTENSITY OF NOT LESS THAN 5 FOOT CANDELS (54 LUX).
C	INTERNALLY ILLUMINATED SIGNS SHALL BE LISTED AND LABELED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND IN ACCORDANCE WITH CBC SECTION 2702.
D	EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES.
E	EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM THAT WILL PROVIDE AN ILLUMNIATION OF NOT LESS THAN 90 MIN. IN CASE OF PRIMARY POWER LOSS (1011.2-1011.5.3)
F	EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. SEE 1008.1.8.3 FOR EXCEPTIONS
G	ANY NEW DOOR HANDLES, LOCKS AND OTHER OPERATING DEVICES SHALL BE INSTALLED AT A MIN. 34" AND A MAX. 48" ABOVE THE FINISHED FLOOR.
H	SIGNAGE STATING *"THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED"* SHALL BE PLACED AT MAIN ENTRANCE TO INTERIOR OF OFFICE BUILDING.
I	ALL EGRESS DOORS OPERATION SHALL ALSO COMPLY WITH CBC SECTION 1008.1.8-1008.1.8.6.
J	THE MEANS OF EGRESS, INCLUDING THE EXIT DISCHARGE, SHALL BE ILLUMINATED AT ALL TIMES WHILE THE BUILDING SPACE SERVED BY THE MEANS OF EGRESS IS OCCUPIED.
K	THE MEANS OF EGRESS ILLUMINATION LEVEL SHALL NOT BE LESS THAN 1 FOOT CANDLE AT THE WALKING SURFACE.
L	THE POWER SUPPLY FOR MEANS OF EGRESS ILLUMINATION SHALL NORMALLY BE PROVIDED BY THE PREMISES' ELECTRICAL SUPPLY. IN THE EVENT OF POWER SUPPLY FAILURE, AN EMERGENCY ELECTRICAL SYSTEM SHALL AUTOMATICALLY ILLUMINATE THE FOLLOWING AREAS:
	i AISLES AND UNENCLOSED EGRESS STAIRWAYS IN ROOMS AND SPACES THAT REUQIRED TWO OR MORE MEANS OF EGRESS;
	ii CORRIDORS, EXIT ENCLOSURES AND EXIT PASSAGEWAYS IN BUILDINGS REUQIRED TO HAVE TWO OR MORE EXITS;
	iii EXTERIOR EGRESS COMPONENTS AT OTHER THAN THE LEVEL OF EXIT DISCHARGE UNTIL EXIT DISCHARGE IS ACCOMPLISHED FOR BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS;
	iv INTERIOR EXIT DISCHARGE ELEMENTS, AS PERMITTED IN SECTION 1024.1, IN BUILDINGS WHICH REQUIRE TWO OR MORE EXITS.
	v EXTERIOR LANDINGS, AS REQUIRED BY SECTION 1008.1.5, FOR EXIT DISCHARGE DOORWAYS IN BUILDINGS WHICH REQUIRE TWO OR MORE EXITS.
M	ALTHOUGH NOT REQUIRED, THE OWNER MAY CHOSE TO PROVIDE THE BUILDING WITH AN EMERGENCY POWER SYSTEM. IF AN EMERGENCY POWER SYSTEM IS INSTALLED, THE FOLLOWING SHALL APPLY: THE EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR A DURATION OF NOT LESS THAN 90 MINUTES AND SHALL CONSIST OF STORAGE BATTERIES, UNIT EQUIPMENT, OR AN ON-SITE GENERATOR. THE INSTALLTION OF THE EMERGENCY POWER SYSTEM SHALL BE IN ACCORDANCE WITH SECTION 2707.
N	EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOT CANDLE (11 LUX) AND A MINIMUM AT ANY POINT OF 0.1 FOOT CANDEL (1 LUX) MEASURED ALONG THE PATH OF EGRESS AT FLOOR LEVEL. ILLUMINATION LEVELS SHALL BE PERMITED TO DECLINE TO 0.6 FOOT CANDLES (6 LUX) AVERAGE AND A MIMUMOM AT ANY POINT OF 0.06 FOOT CANDLES (0.6 LUX) AT THE END OF THE EMERGENCY LIGHTING TIME DURATION. A MAXIMUM-TO-MINIMUM ILLUMINATION UNIFORMITY RATION OF 40 TO 1 SHALL NOT BE EXCEEDED.

LEGEND

- NEW WALL
- EXISTING WALL TO REMAIN
- LENGTH IN x'-x" OF EXISTING SHEAR (7/16" RATED SHEATHING) SHOWN PER EXISTING STRUCTURAL PLANS
- ACCESSORY SPACE - NO LOAD (CLEAR OR WHITE ON PLAN)
- DEMO AREA - SLAB
- GROUP B: BUSINESS OFFICE @ 100 gross OCC LOAD FACTOR
- GROUP B: BUSINESS OFFICE @15 gross LUNCH RM/CONFERENCE
- GROUP B: BUSINESS OFFICE @50 gross LOCKER ROOM
- GROUP S-1: WAREHOUSE / STORAGE @ 500 gross OCC LOAD FACTOR
- CIRCULATION - EXIT CORRIDOR

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS.

REVISIONS / DESCRIPTION	DATE	BY
GENERAL UPDATE PER JM REVIEW	AUG 11, 2017	SES REC
ADD RR RELATED DWGS: ADA + IE FINAL CONSTRUCTION SUBMITTAL	AUG 31, 2017	SES REC
1		
2		
3		
4		

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ROY E COLBERT

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PLANNING
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roolb@sbcglobal.net

CALIFORNIA C12050
N.C.A.R.B.

ISSUED FOR CONSTRUCTION

LICENSED ARCHITECT ROY E. COLBERT No. C12050 RENEWS 0-31-2017 STATE OF CALIFORNIA

This project has been designed by me, or under my direct supervision.

VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

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4667 Telegraph Road
Ventura, CA 93003

DEPARTMENT OF MAINTENANCE & OPERATIONS
4900 Loma Vista Road
Ventura, CA 93003

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VENTURA COLLEGE MAINTENENCE & OPERATIONS INTERIOR TENANT IMPROVEMENT M BUILDING

EGRESS PLAN & OCCUPANCY LOAD

SHEET NAME :

10 JULY 2017

DATE :

1" ACTUAL

IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1) EXACTLY, THE DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ACTUAL MEASUREMENT OF ALL LABELED SCALES.

AS SHOWN — SCALE:
SES — DRAWN BY:

C16- 013 — ARCHITECT PROJECT #:
P 0107586 — VCCCD PROJECT #:

A-200

SHEET NUMBER : OF SHEETS

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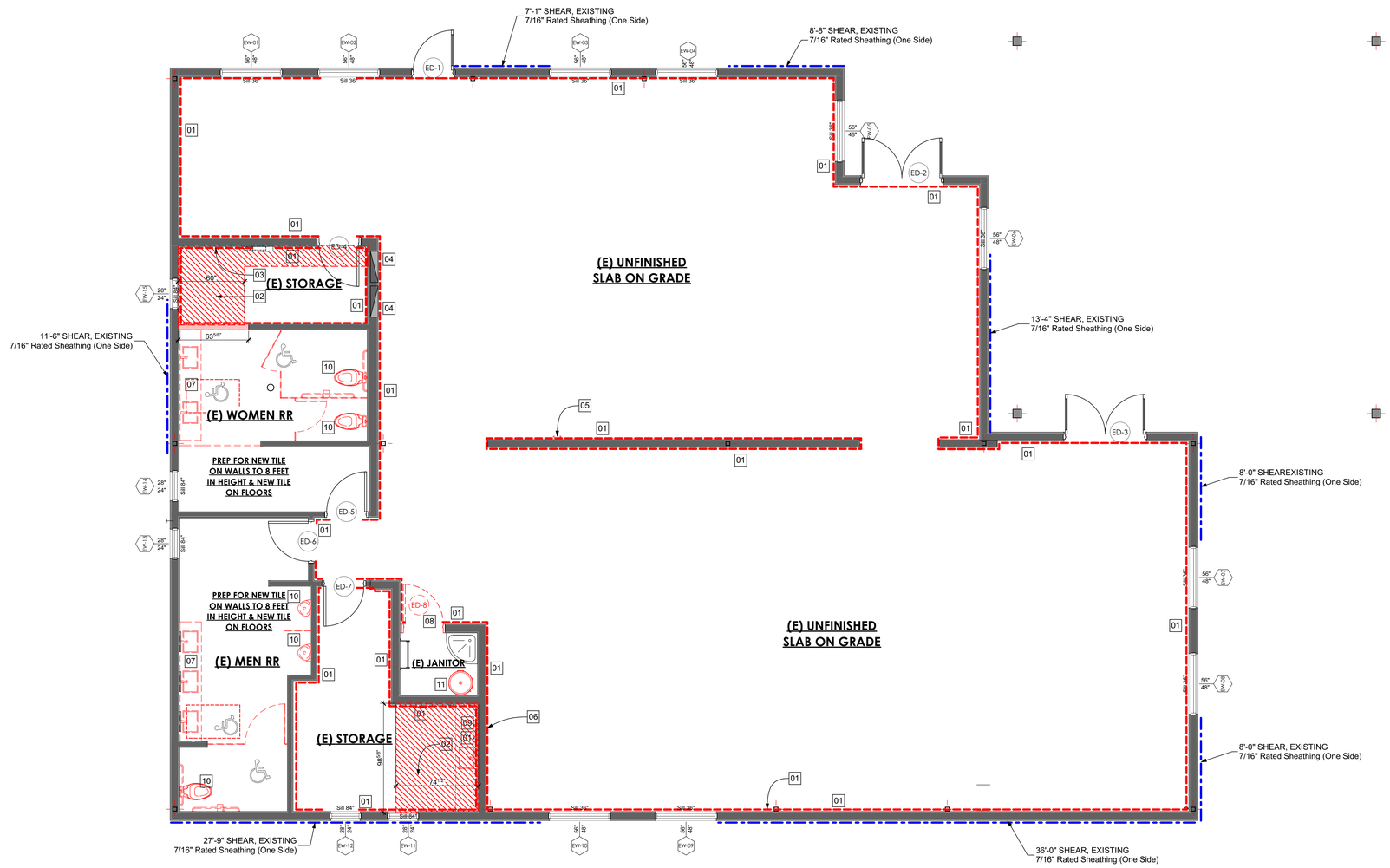

1 INTERIOR DEMO PLAN

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

DEMO PLAN NOTES

A.
PATCH WALL AND SLAB AS REQUIRED WHERE DEMOLITION OCCURS. PREPARE SURFACES TO RECEIVE NEW FINISHES.

B.
REMOVE ALL EXISTING BLANK COVER PLATES. PATCH ALL UNUSED OUTLET HOLES AND PREP WALLS FOR NEW FINISH.

C.
IN PARTITIONS BEING DEMOLISHED: REMOVE ALL ASSOCIATED POWER, TELE/DATA LINES, CABLING, ELECTRICAL SWITCHING, THERMOSTATS, AND CONDUITS. SAFE-OFF POWER BACK TO SOURCE.

D.
REMOVE ALL UNSECURED CABLING THROUGHOUT DEMOLITION AREAS. SECURE ALL REMAINING CABLING AS REQUIRED TO MEET CURRENT CODES.

E.
REMOVE ALL HILTI SHOT PINS FROM FLOOR SLAB. PATCH AND REPAIR AS REQUIRED.

F.
FOR ADDITIONAL GENERAL NOTES, LEGENDS, AND SCHEDULES, REFER TO SHEETS A-001 THROUGH A-006

G.
AREAS NOT MARKED OR HIGHLIGHTED OR CALLED OUT PER LEGEND ARE NOT IN CONTRACT ON THIS SHEET, TYPICAL.

H.
GC TO PROVIDE DUST PROTECTION THROUGHOUT DEMOLITION AND CONSTRUCTION.

I.
ARCHITECT HAS CONDUCTED NO TEST FOR, AND MADE NO DETERMINATION OF, THE PRESENCE OR LACK OF ASBESTOS OR OTHER HAZARDOUS OR TOXIC SUBSTANCES.

J.
ALL WORK SHOWN REFLECTS AS-BUILT MEASUREMENTS. HOWEVER, ANY NEW MODIFICATIONS TO THE SUITE SHALL REQUIRE FIELD VERIFICATION OF ALL DIMENSIONS SHOWN ON THIS PLAN PRIOR TO COMMENCING WORK.

K.
REFER TO MECHANICAL, ELECTRICAL, MECHANICAL, AND PLUMBING SHEETS FOR ADDITIONAL DEMOLITION INFORMATION.

DEMO KEY NOTES

01 REMOVE ALL 3/8" PLYWOOD FROM INTERIOR WALLS TO EXPOSE STUDS AS INDICATED WITH DASHED LINES. (3/8" PLYWOOD LOCATED AT ALL (E) WDW's SILL-JAMB-HEAD TO REMAIN)

02 SAWCUT EXISTING SLAB TO PREPARE FOR NEW SLAB AND DRAIN IN NEW SHOWER(S). SEE FLOOR PLAN FOR ADDITIONAL INFORMATION A-202

03 REMOVE (E) CONTROL BOX & CONDUIT FOR LAN GATE ROUTER & EXHAUST FANS - RELOCATE PER ELECTRICAL PLANS SEE DETAIL-SECTION B2/A801. REFER TO ELECTRICAL PLANS PRIOR TO REMOVAL.

04 ELECTRICAL SUB PANEL BOXES TO REMAIN - SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION

05 EXISTING LAN (NETWORK) CONDUIT TO REMAIN SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.

06 REMOVE AND CAP EXISTING DRAIN & WATER LINES.

07 REMOVE EXISTING COUNTERTOP AND SINK(s). SEE NEW PLUMBING LOCATIONS ON FLOOR PLAN.

08 REMOVE (E) DOOR AND HINGES - JAM AND CASING TO REMAIN.

09 REMOVE (E) STAINLESS STEEL COUNTERTOP AND SINK. CAP WASTE AND WATER LINES

10 REMOVE EXISTING RESTROOM TOILETS, URINALS, PARTITION, AND RELATED ACCESSORIES/HARDWARE TO PREP FOR NEW TILE. STORE SAFELY FOR RE-INSTALLATION.

11 RELOCATE EXISTING WATER HEATER PER MAINTENENCE & OPERATIONS DIRECTOR.

LEGEND

REMOVE PLYWOOD @ WALL

DEMO WALL

EXISTING WALL TO REMAIN

STH IN x'-x" OF EXISTING SHEAR (7/16" RATED SHEATHING)
SHOWN PER EXISTING STRUCTURAL PLANS

DEMO AREA - SLAB

THIS PLAN IS BASED UPON DATACOMPILED AND FURNISHED BY OTHERS

REVISIONS / DESCRIPTION	DATE	BY
GENERAL UPDATE PER JM REVIEW	AUG 11, 2017	SES REC
ADD PR RELATED DWGS: ADA + IE FINAL CONSTRUCTION SUBMITTAL	AUG 31, 2017 OCT 01, 2017	SES REC
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CALIFORNIA C12050
N.C.A.R.B.

LICENSED ARCHITECT ROY E. COLBERT LICENSE C12050 RENEWS 10-31-2017 STATE OF CALIFORNIA

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COMMUNITY COLLEGE
DISTRICT

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Ventura, CA 93003

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VENTURA COLLEGE
MAINTENENCE & OPERATIONS
INTERIOR TENANT IMPROVEMENT
M BUILDING

DEMOLITION PLAN

SHEET NAME :

10 JULY 2017

DATE :

1" ACTUAL

IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ACTUAL MEASUREMENT OF ALL LABELED SCALES.

AS SHOWN — SCALE:
SES — DRAWN BY:

C16- 013 — ARCHITECT PROJECT #:
P 0107586 — VCCCD PROJECT #:

A-201

SHEET NUMBER : OF SHEETS

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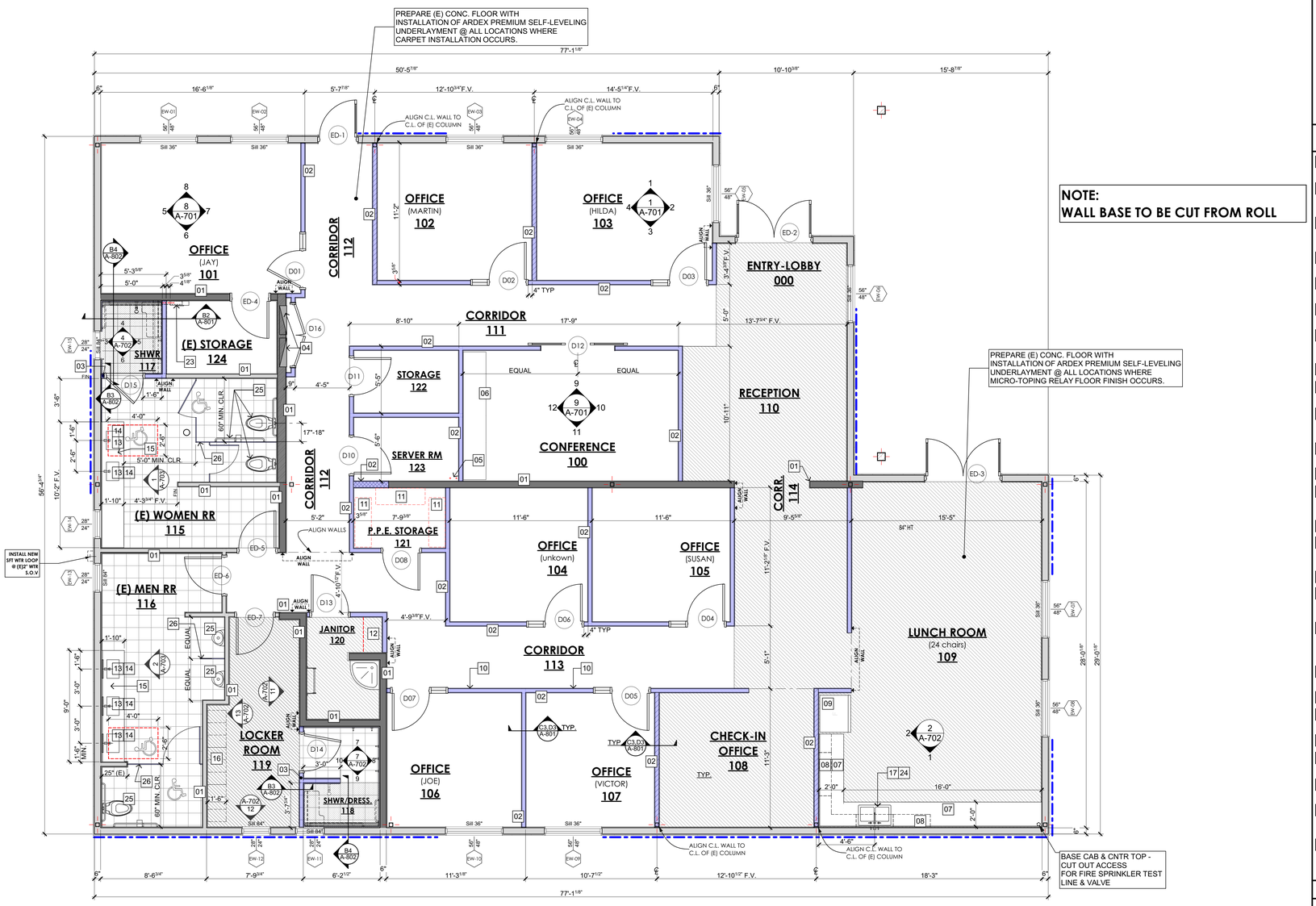

NOTE:
WALL BASE TO BE CUT FROM ROLL

PREPARE (E) CONC. FLOOR WITH INSTALLATION OF ARDEX PREMIUM SELF-LEVELING UNDERLAYMENT @ ALL LOCATIONS WHERE MICRO-TOPING RELAY FLOOR FINISH OCCURS.

1 FLOOR PLAN - NEW INTERIOR LAYOUT

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

FLOOR PLAN NOTES

A. ALL NEW PARTITIONS TO BE METAL STUD FRAMING U.N.O. (ICC-ESR-2374) SEE CONNECTION DETAILS SHEET A-801 FOR MORE INFORMATION.

B. ALL INTERIOR METAL STUDS MUST BE LISTED BY AN APPROVED TESTING AND LISTING AGENCY (ICC/ICBO etc.) AND THEY MUST BE INSTALLED PER THE LISTING AND MANUFACTURERS INSTALLATION INSTRUCTIONS.

C. PROVIDE BLOCKING AND BACKING AT 2'-0" AFF AND 8'-0" AFF IN INTERIOR PARTITIONS FOR ALL CASEWORK, EQUIPMENT, AND FUTURE ACCESSORIES.

D. ALL PARTITIONS SHALL BE PAINTED AND RECEIVE 4" VINYL TOPSET BASE UNLESS OTHERWISE NOTED.

E. FOR ADDITIONAL GENERAL NOTES, LEGENDS, AND SCHEDULES, REFER TO SHEETS A-001 THROUGH A-006

F. ADA COMPLIANCE: CONTRACTOR TO VERIFY THAT THE EXISTING MULTIPLE STALL RESTROOMS ARE COMPLIANT WITH THE 2016 CBC CHAPTER 11B AND HAVE A DISABLED STALL CLEAR WIDTH AND A 9 INCH TOE SPACE BETWEEN PARTITION WALLS.

G. AREAS NOT MARKED OR HIGHLIGHTED OR CALLED OUT PER LEGEND ARE NOT IN CONTRACT ON THIS SHEET, TYPICAL.

H. GC TO PROVIDE DUST PROTECTION THROUGHOUT DEMOLITION AND CONSTRUCTION.

I. CONTRACTOR TO VERIFY ALL NEW WORK IS COMPLIANT WITH THE 2016 CBC AS ARE ALL RAMPS & HANDRAILS FOR RAMP AND STAIRS AS APPLICABLE TO PROJECT SCOPE.

J. ALL WORK SHOWN REFLECTS AS-BUILT MEASUREMENTS, HOWEVER, ANY NEW MODIFICATIONS SHALL REQUIRE FIELD VERIFICATION OF ALL DIMENSIONS SHOWN ON THIS PLAN PRIOR TO COMMENCING WORK.

K. ALL DIMENSIONS ARE TO THE FACE OF METAL STUD UNLESS U.N.O.

KEY NOTES

01 (E) PARTITION WALL PER WALL LEGEND - PROVIDE R-13 FIBERGLASS BATT SOUND INSULATION

02 NEW PARTITION WALL TO 10 FEET IN HEIGHT PER WALL SCHEDULE - PROVIDE R-13 FIBERGLASS BATT SOUND INSULATION

03 NEW PARTITION WALL TO 7 FEET IN HEIGHT PER WALL SCHEDULE @ SHOWER SEE SHEET A-801 FOR TYPICAL CONNECTION DETAILS.

04 ELECTRICAL SUB PANEL BOXES TO REMAIN - SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION

05 EXISTING LAN (NETWORK) CONDUIT TO REMAIN SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.

06 NEW BUILT-IN CABINETRY @ CONFERENCE RM - SEE INTERIOR ELEVATIONS.

07 NEW BASE CABINETS & COUNTER TOP - COUNTER TOP TO BE SOLID SURFACE BY DUPONT - CORIAN "LAVA ROCK" PER SPECIFICATIONS - SEE INTERIOR ELEVATIONS

08 NEW UPPER WALL CABINETS - SEE INTERIOR ELEVATIONS

09 FULL SIZE REFRIDGERATOR LOCATION - NEW REFRIDGERATOR BY OWNER

10 LOCATION FOR IDEA PAINT PRO DRY-ERASE COATING - APPLY PER SPECS. DISCUSS W/ ARCHITECT PRIOR TO APPLICATION FOR DELINEATION OF AREA TO BE COATED.

11 METAL SHELVING FOR SAFETY GEAR STORAGE - 48"x16"x7" HEIGHT UNITS. BY OWNER

12 CUSTOM FIT SHELVING BY OWNER

13 KOHLER TAHOE LAVATORY #K-2890-4U (WHITE) UNDERCOUNTER MOUNT - SEE DETAIL D4/A-802 SEE PLUMBING PLANS

14 CHICAGO FAUCET #116.211.AB.1 (ELECTRONIC)

15 COUNTER TOP: SOLID SURFACE BY DUPONT - CORIAN "LAVA ROCK" PER SPECIFICATIONS o/ 3/4" PLYWOOD SEE DETAIL D4/A-802

16 LOCKERS BY OWNER

17 ELKAY CROSSTOWN 16 GUAGE STAINLESS STEEL 30-3/4" x 18-1/2" x 8", EQUAL DOUBLE BOWL UNDERMOUNT SINK KIT - EFRU3118DBG

18 CONFERENCE ROOM 65"-90" NETWORK MONITOR/SMART TV BY OWNER - TO BE WIRED FOR INTERNET AND COMMUNICATION W/ VIDEO CONFERENCE CAPABILITIES. SEE D4/8.01 FOR BACKING DETAILS.

19 42"-65" NETWORK CAPABLE MONITOR -INSTALL ON WALL @ 66" HIGH U.N.O. - SEE D4/8.01 FOR BACKING DETAILS.

20 VERTICAL FILE CABINETS - 64" TALL - BY OWNER

21 UPPER WALL MOUNT ABOVE WORKSTATION HUTCH STORAGE CABINETS BY OWNER.

22 28" TALL LATERAL FILE CABINET STORAGE UNITS BY OWNER.

23 FIRE ALARM CONTROL BOX TO REMAIN - SEE DEMO PLANS & DETAIL B2/A-801

24 Chicago Faucets: DECK MOUNTED 8" FIXED CENTERS HOT & COLD WATER SINK FAUCET - 1100-HABAE35-317AB

25 RE-INSTALL EXISTING TOILET, URINAL, AND/OR TOILET COMPARTMENT ACCESSORY PER COMPLIANT STANDARDS.

26 NEW TOILET COMPARTMENT PARTITIONS: METPAR CORP. THE CORINTHIAN. #FP-5005S STAINLESS STEEL #301/#304 SERIES WITH A #4 SATIN FINISH SEE SPECIFICATION SECTION 10 21 13

LEGEND

8" EXISTING MTL STD WALL
DARK HATCH DELINEATES FULL HEIGHT

EXISTING MTL STD WALL - SIZE VARIES
INDICATES (E) SHEAR PANEL LOCATIONS

NEW 3 5/8" MTL STD WALL W/ 5/8" GYP BD BOTH SIDES PROVIDE R13 FIBERGLASS BATT SOUND INSULATION

NEW 4" MTL STD WALL W/ 5/8" GYP BD BOTH SIDES PROVIDE R13 FIBERGLASS BATT SOUND INSULATION

NEW 6" MTL STD WALL W/ 5/8" GYP BD BOTH SIDES PROVIDE R13 FIBERGLASS BATT SOUND INSULATION

MICRO-TOPPING RELAY FLOOR FINISH o/ ARDEX PREMIUM SELF-LEVELING UNDERLAYMENT - SEE SPEC. 03 35 43

FLOOR TILE PER WRITTEN SPECIFICATIONS
HATCHING INDICATES WATERPROOF PAN AREA

CARPET (PER OWNER): SHAW (TILES), DIRECT GLUE DOWN o/ ARDEX PREMIUM SELF-LEVELING UNDERLAYMENT

THIS PLAN IS BASED UPON DATACOMPILED AND FURNISHED BY OTHERS.

REVISIONS / DESCRIPTION	DATE	BY
GENERAL UPDATE PER JM REVIEW	AUG 11, 2017	SES REC
ADD PR RELATED DWGS: ADA + IE FINAL CONSTRUCTION SUBMITTAL	AUG 31, 2017 OCT 01, 2017	SES REC
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ROY E COLBERT

ARCHITECTURE
PLANNING
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roolb@sbcglobal.net

CALIFORNIA C12050
N.C.A.R.B.

LICENSED ARCHITECT ROY E. COLBERT LICENSE C12050 RENEWS 10-31-2017 STATE OF CALIFORNIA

This project has been designed by me, or under my direct supervision.

VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

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4667 Telegraph Road
Ventura, CA 93003

DEPARTMENT OF MAINTENANCE & OPERATIONS
4900 Loma Vista Road
Ventura, CA 93003

PROJECT DIRECTORY

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Camarillo, CA 93012
Ken Lucci
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HVAC MECHANICAL / PLMB ENGINEER:
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838 East Front Street
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Jack Collings, F.P.E.
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260 Maple Court, Suite 241
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jcollings@collingsandassociates.com

VENTURA COLLEGE MAINTENENCE & OPERATIONS INTERIOR TENANT IMPROVEMENT M BUILDING

FLOOR PLAN - NEW INTERIORS

SHEET NAME :

10 JULY 2017

DATE :

1" ACTUAL
IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ACTUAL MEASUREMENT OF ALL LABELED SCALES.

AS SHOWN — SCALE:
SES — DRAWN BY:

C16- 013 — ARCHITECT PROJECT #:
P 0107586 — VCCCD PROJECT #:

A-202

SHEET NUMBER : OF SHEETS

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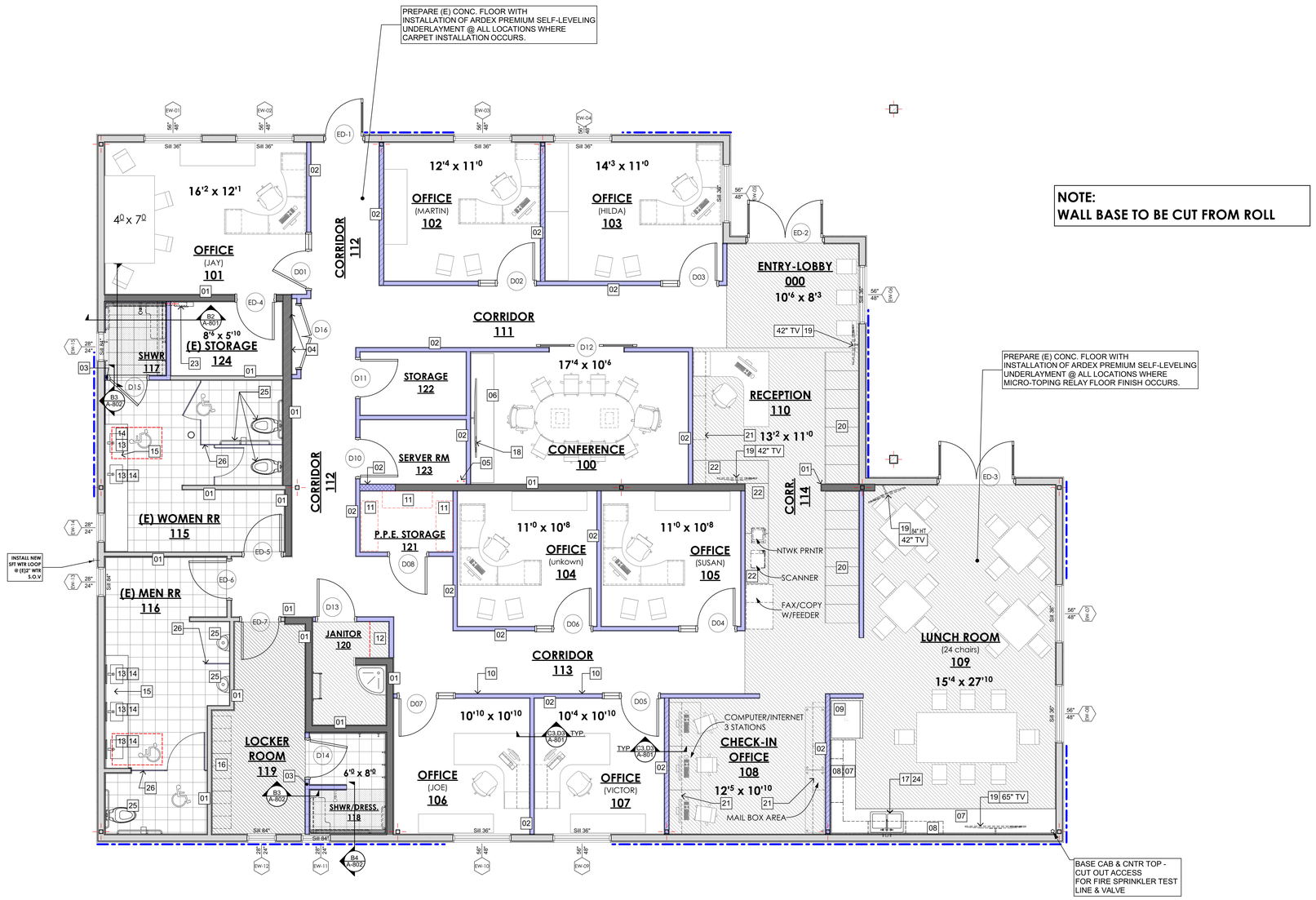
VC_M&O_ADMIN_TI_r3_v002.pln - Wednesday, October 18, 2017



1 NEW LAYOUT FLOOR PLAN W/ FURNITURE & FLOOR SURFACES

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

NOTE:
WALL BASE TO BE CUT FROM ROLL

FLOOR PLAN NOTES

A. ALL NEW PARTITIONS TO BE METAL STUD FRAMING U.N.O. (ICC-ESR-2374) SEE CONNECTION DETAILS SHEET A-801 FOR MORE INFORMATION.

B. ALL INTERIOR METAL STUDS MUST BE LISTED BY AN APPROVED TESTING AND LISTING AGENCY (ICC/ICBO etc.) AND THEY MUST BE INSTALLED PER THE LISTING AND MANUFACTURERS INSTALLATION INSTRUCTIONS.

C. PROVIDE BLOCKING AND BACKING AT 2'-0" AFF AND 8'-0" AFF IN INTERIOR PARTITIONS FOR ALL CASEWORK, EQUIPMENT, AND FUTURE ACCESSORIES.

D. ALL PARTITIONS SHALL BE PAINTED AND RECEIVE 4" VINYL TOPSET BASE UNLESS OTHERWISE NOTED.

E. FOR ADDITIONAL GENERAL NOTES, LEGENDS, AND SCHEDULES, REFER TO SHEETS A-001 THROUGH A-006

F. ADA COMPLIANCE: CONTRACTOR TO VERIFY THAT THE EXISTING MULTIPLE STALL RESTROOMS ARE COMPLIANT WITH THE 2016 CBC CHAPTER 11B AND HAVE A DISABLED STALL CLEAR WIDTH AND A 9 INCH TOE SPACE BETWEEN PARTITION WALLS.

G. AREAS NOT MARKED OR HIGHLIGHTED OR CALLED OUT PER LEGEND ARE NOT IN CONTRACT ON THIS SHEET, TYPICAL.

H. GC TO PROVIDE DUST PROTECTION THROUGHOUT DEMOLITION AND CONSTRUCTION.

I. CONTRACTOR TO VERIFY ALL NEW WORK IS COMPLIANT WITH THE 2016 CBC AS ARE ALL RAMPS & HANDRAILS FOR RAMP AND STAIRS AS APPLICABLE TO PROJECT SCOPE.

J. ALL WORK SHOWN REFLECTS AS-BUILT MEASUREMENTS, HOWEVER, ANY NEW MODIFICATIONS SHALL REQUIRE FIELD VERIFICATION OF ALL DIMENSIONS SHOWN ON THIS PLAN PRIOR TO COMMENCING WORK.

K. ALL DIMENSIONS ARE TO THE FACE OF METAL STUD UNLESS U.N.O.

KEY NOTES

01 (E) PARTITION WALL PER WALL LEGEND - PROVIDE R-13 FIBERGLASS BATT SOUND INSULATION

02 NEW PARTITION WALL TO 10 FEET IN HEIGHT PER WALL SCHEDULE - PROVIDE R-13 FIBERGLASS BATT SOUND INSULATION

03 NEW PARTITION WALL TO 7 FEET IN HEIGHT PER WALL SCHEDULE @ SHOWER SEE SHEET A-801 FOR TYPICAL CONNECTION DETAILS.

04 ELECTRICAL SUB PANEL BOXES TO REMAIN - SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION

05 EXISTING LAN (NETWORK) CONDUIT TO REMAIN SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.

06 NEW BUILT-IN CABINETRY @ CONFERENCE RM - SEE INTERIOR ELEVATIONS.

07 NEW BASE CABINETS & COUNTER TOP - COUNTER TOP TO BE SOLID SURFACE BY DUPONT - CORIAN "LAVA ROCK" PER SPECIFICATIONS - SEE INTERIOR ELEVATIONS

08 NEW UPPER WALL CABINETS - SEE INTERIOR ELEVATIONS

09 FULL SIZE REFRIDGERATOR LOCATION - NEW REFRIDGERATOR BY OWNER

10 LOCATION FOR IDEA PAINT PRO DRY-ERASE COATING - APPLY PER SPECS. DISCUSS W/ ARCHITECT PRIOR TO APPLICATION FOR DELINEATION OF AREA TO BE COATED.

11 METAL SHELVING FOR SAFETY GEAR STORAGE - 48"x16'x7" HEIGHT UNITS. BY OWNER

12 CUSTOM FIT SHELVING BY OWNER

13 KOHLER TAHOE LAVATORY #K-2890-4U (WHITE) UNDERCOUNTER MOUNT - SEE DETAIL D4/A-802 SEE PLUMBING PLANS

14 CHICAGO FAUCET #116.211.AB.1 (ELECTRONIC)

15 COUNTER TOP: SOLID SURFACE BY DUPONT - CORIAN "LAVA ROCK" PER SPECIFICATIONS o/ 3/4" PLYWOOD SEE DETAIL D4/A-802

16 LOCKERS BY OWNER

17 ELKAY CROSSTOWN 16 GUAGE STAINLESS STEEL 30-3/4" x 18-1/2" x 8", EQUAL DOUBLE BOWL UNDERMOUNT SINK KIT - EFRU3118DBG

18 CONFERENCE ROOM 65"-90" NETWORK MONITOR/SMART TV BY OWNER - TO BE WIRED FOR INTERNET AND COMMUNICATION W/ VIDEO CONFERENCE CAPABILITIES. SEE D4/8.01 FOR BACKING DETAILS.

19 42"-65" NETWORK CAPABLE MONITOR -INSTALL ON WALL @ 66" HIGH U.N.O. - SEE D4/8.01 FOR BACKING DETAILS.

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FLOOR TILE PER WRITTEN SPECIFICATIONS
HATCHING INDICATES WATERPROOF PAN AREA

CARPET (PER OWNER): SHAW (TILES), DIRECT GLUE DOWN o/ ARDEX PREMIUM SELF-LEVELING UNDERLAYMENT

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VENTURA COLLEGE
MAINTENENCE & OPERATIONS
INTERIOR TENANT IMPROVEMENT
M BUILDING

FLOOR PLAN - FURNITURE PLAN & LAYOUT

SHEET NAME :

10 JULY 2017

DATE :

1" ACTUAL
IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1) EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ACTUAL MEASUREMENT OF ALL LABELED SCALES.

AS SHOWN — SCALE:
SES — DRAWN BY:

C16- 013 — ARCHITECT PROJECT #:
P 0107586 — VCCCD PROJECT #:

A-203

SHEET NUMBER : OF SHEETS

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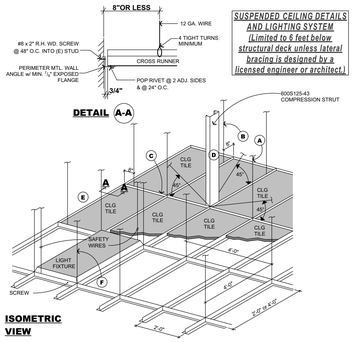
VC_M&O_ADMIN_TI_r3_v002.pln - Thursday, August 31, 2017



SUSPENDED CEILING DETAILS AND LIGHTING SYSTEM (Limited to 6 feet below structural deck unless lateral bracing is designed by a licensed engineer or architect.)

A. MAIN SUPPORTS
12 GAUGE HANGER WIRES AT 48" ON CENTERS EACH WAY.

B. PERIMETER WIRES
12 GAUGE PERIMETER WIRES INSTALLED WITHIN 8" OF WALL AT EACH MAIN AND CROSS "T" TO WALL JUNCTURE. UNLESS PERIMETER MEMBERS ARE A STRUCTURAL PARTOF THE APPROVED SYSTEM, WALL ANGLES , OR CHANNELS SHALL BE CONSIDERED AS AESTHETIC CLOSURES AND THUS, WITH NO STRUCTURAL VALUE. ENDS OF MAIN RUNNERS AND CROSS MEMBERS SHALL BE TIED TOGETHER TO PREVENT THEIR SPREADING. TO FACILITATE INSTALLATION, MAIN RUNNERS AND CROSS RUNNERS SHALL BE ATTACHED TO THE PERIMETER AT TWO (2) ADJACENT WALLS ON EACH MAIN RUNNER AND CROSS MEMBER. (CBC, SEC. 803.9.11)

SUSPENDED CEILING ASSEMBLIES LOCATED ALONG MEANS OF EGRESS SERVING AN OCCUPANT LOAD OF 30 OR MORE SHALL COMPLY WITH THE FOLLOWING PROVISIONS:

" SPACING OF VERTICAL HANGERS SHALL NOT EXCEED 24" ON CENTER ALONG THE ENTIRE LENGTH OF THE SUSPENDED CEILING ASSEMBLY LOCATED ALONG THE MEANS OF EGRESS OR AT THE LOBBY.

" ALL LAY-IN CEILING TILES AND PANELS SHALL BE SECURED TO THE SUSPENDED CEILING ASSEMBLY WITH TWO (2) HOLD-DOWN CLIPS MINIMUM FOR EACH TILE WITHIN A 4-FOOT RADIUS OF THE EXIT LIGHTS AND EXIT SIGNS.

C. SEISMIC SPLAY WIRES
12 GAUGE WIRES SPLAYED IN FOUR (4) DIRECTIONS, 90° APART. PARALLEL TO CROSS AND MAIN RUNNERS, AND 45° FROM HORIZONTAL, AND 12'-0" ON CENTER EACH WAY, BEGINNING AT 6'-0" FROM EACH WALL. 12 GAUGE WIRES SECURED TO THE MAIN RUNNER WITHIN 2" OF THE CROSS RUNNER INTERSECTION SPLAYED IN FOUR DIRECTIONS. THE SPLAY WIRES SHALL BE SPREAD A MINIMUM OF 6" FROM ALL HORIZONTAL PIPING AND ALL DUCTWORK.

D. COMPRESSION STRUT
A 6" x 25 GAUGE C-STUD COMPRESSION STRUT SHALL BE INSTALLED AT THE CENTER OF THE SEISMIC SPLAY WIRE INSTALLATION.

E. WALL ANGLES
A MINIMUM WALL (CLOSURE) ANGLE OF AT LEAST 2-INCH HORIZONTAL LEG SHALL BE USED AT PERIMETER WALLS AND AT INTERIOR FULL HEIGHT PARTITIONS. THE FIRST (CLOSEST ADJACENT) CEILING TILE SHALL MAINTAIN ½" CLEAR FROM THE FINISH WALL SURFACE AND SHALL REST UPON AND BE FREE TO SLIDE ON A CLOSURE ANGLE.

F. LIGHT FIXTURE SUPPORT
12 GAUGE WIRES ATTACHED TO MAIN OR CROSS TEES SHALL BE LOCATED WITHIN 3 INCHES OF A LIGHT FIXTURE AT EACH CORNER. ATTACH ADDITIONAL 12 GAUGE SAFETY WIRES TO EACH LIGHT FIXTURE AT OPPOSITE CORNERS, AND EXTEND THE WIRES DIRECTLY TO THE STRUCTURE ABOVE. INSTALL ONE SCREW AT OPPOSITE CORNERS OF LIGHT FIXTURE TO MAIN OR CROSS TEES. ELECTRICAL WIRING SHALL NOT BE ATTACHED TO T-BAR ASSEMBLY SUPPORTING WIRES, USE SEPARATE WIRES.

4 SUSPENDED CLNG DETAILS
NOT TO SCALE

NOTES: ***(SUSPENDED CEILING DETAILS AND LIGHTING SYSTEM Limited to 6 feet below structural deck unless lateral bracing is designed by a licensed engineer or architect.)***

" A HEAVY DUTY T-BAR GRID SYSTEM SHALL BE USED.

" CEILING EXCEEDING 1000 S.F. SHALL HAVE HORIZONTAL RESTRAINTS.

" FOR CEILING AREA EXCEEDING 2,500 SQ. FT., PROVIDE A SEISMIC SEPARATION JOINT OR FULL HEIGHT PARTITION THAT BREAKS THE CEILING THE CEILING UP INTO AREAS NOT EXCEEDING 2,500 SQ. FT.

" EACH AREA SHALL BE PROVIDED WITH CLOSURE WALL ANGLES (SEE SEISMIC SPLAY ANGLE AND WALL ANGLE BELOW).

" PROVIDE POSITIVE BRACING WHERE CHANGES OCCUR IN T-BAR CEILING ASSEMBLY HEIGHTS.

" SPECIAL INSPECTION IS REQUIRED FOR SUSPENDED T-BAR CEILING ASSEMBLIES AND ANCHORAGES.

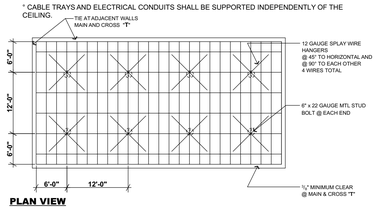
" INSTALL 12 GA. WIRES TO SIDE OF DIMENSION LUMBER JOISTS OR RAFTERS WITH 1 ½" Ø x 1 ½" LENGTH EYE SCREW WITH FULL THREAD EMBEDMENT. DO NOT INSTALL EYE SCREW INTO SIDES OF LAMINATED (GLU-LAM, MICRO-LAM, ETC.) JOISTS OR RAFTERS, INSTALL AT BOTTOM WITH FULL EMBEDMENT.

" CEILING TILES SHALL BE ⅝" MINIMUM THICKNESS MINERAL TILES WITH A FLAME SPREAD RATING OF 25 OR LESS. PROVIDE U.L. LABEL CERTIFICATION.

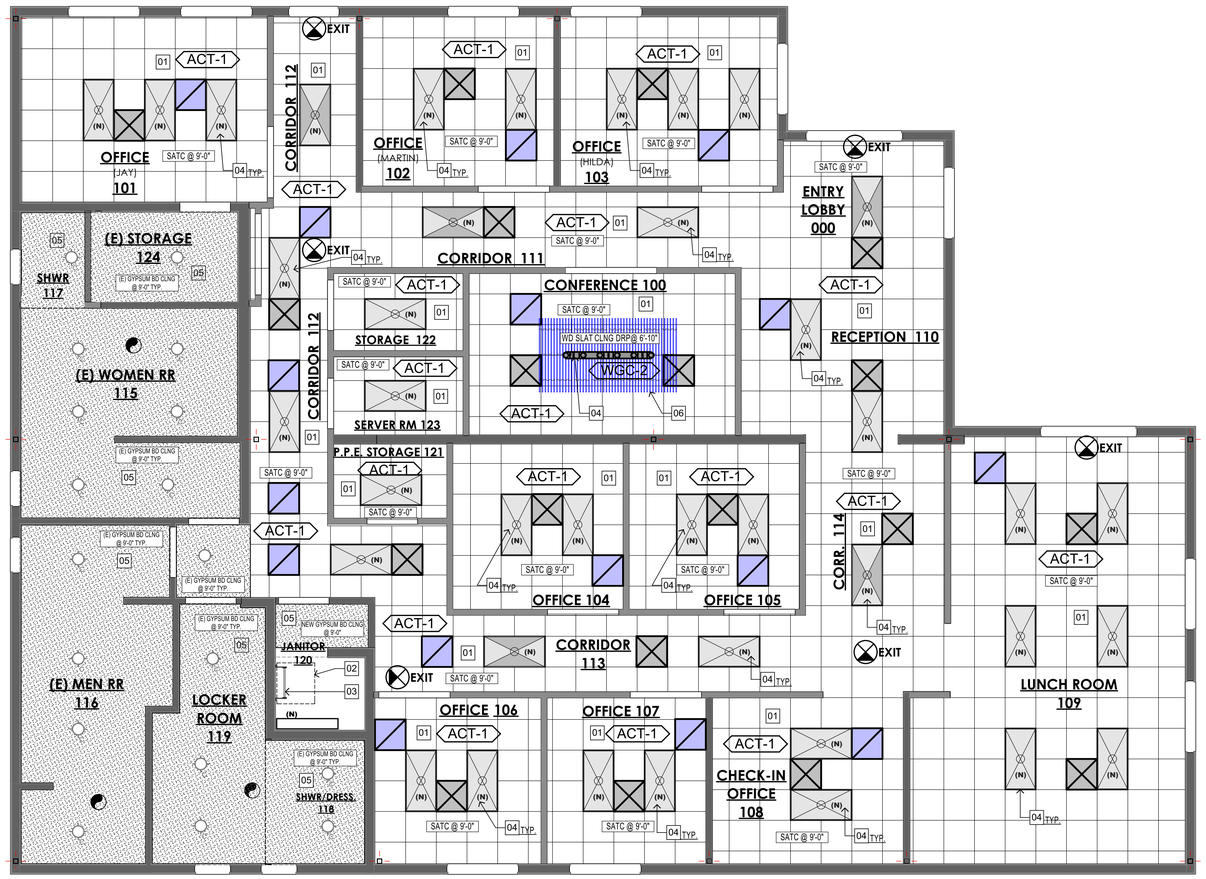
" CEILING TILES IN COMMERCIAL KITCHENS SHALL BE CLEANBLE AND WASHABLE AND SHALL COMPLY WITH ALL HEALTH DEPARTMENT REGULATIONS.

" SPRINKLER HEADS SHALL BE SUPPORTED INDEPENDENTLY AND SHALL BE INSTALLED WITHIN A 2 INCH OVERSIZE RING.

" CABLE TRAYS AND ELECTRICAL CONDUITS SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING.



5 SUSPENDED CLNG DETAILS
NOT TO SCALE



1 REFLECTED CEILING PLAN - NEW LAYOUT
SCALE: 1/4" = 1'-0"

FLOOR PLAN NOTES

A. COORDINATE ALL SWITCHES AND FACE PLATES PER ELECTRICAL DRAWINGS.

B. REFER TO STANDARD CEILING INSTALLATION DETAILS FOR ADDITIONAL INSTALLATION.

C. REFER TO PROJECT GENERAL NOTES FOR ADDITIONAL CEILING NOTES. (SHEETS A-001 THROUGH A-006)

D. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION ON SUPPLY AIR & RETURN AIR DIFFUSERS.

E. ANY CONTINUOUS CEILING DOES NOT EXCEED 2500 S.F.

F. LIGHTING AND DIFFUSER LOCATIONS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY. ALWAYS REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR CROSS REFERENCE AND SPECIFICATIONS. ANY CONFLICTING INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE COORDINATING ENGINEER PRIOR TO ORDERING OF ANY FIXTURES. WORK SHALL NOT PROCEED UNTIL ANY DISCREPENCIES ARE MANAGED.

G. AREAS NOT MARKED OR HIGHLIGHTED OR CALLED OUT PER LEGEND ARE NOT IN CONTRACT ON THIS SHEET, TYPICAL.

H. GC TO PROVIDE DUST PROTECTION THROUGHOUT CONSTRUCTION.

I. CONTRACTOR TO VERIFY ALL NEW WORK IS COMPLIANT WITH THE 2016 CBC.

J. ALL WORK SHOWN REFLECTS AS-BUILT MEASUREMENTS, HOWEVER, ANY NEW MODIFICATIONS SHALL REQUIRE FIELD VERIFICATION OF ALL DIMENSIONS SHOWN ON THIS PLAN PRIOR TO COMMENCING WORK.

K. ALL DIMENSIONS ARE TO THE FACE OF METAL STUD UNLESS U.N.O.

KEY NOTES

01 NEW SUSPENDED ACOUSTIC CEILING PER SYMBOL LEGEND CALL OUT. HEIGHT AS NOTED

02 (E) ROOF HATCH

03 (E) LADDER FOR ROOF ACCESS

04 NEW LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS

05 GYPSUM BOARD CEILING - PAINT - HEIGHT AS NOTED. COLOR: DUNN-EDWARDS DE 6309 "GRAY WONDER" - TYPICAL

06 NEW SUSPENDED WOOD SLAT FLOATING CEILING CLOUD - SEE SYMBOL LEGEND CALL OUT. HEIGHT AS NOTED

RCP SYMBOL LEGEND

ACT-1 — ACOUSTICAL CEILING
APPLICATION: NEW REMODEL OPEN OFFICE AREA
MANUFACTURER: ROCKFON
PRODUCT: 'Sonar - X' CDX Concealed
COLOR: WHITE
SIZE: 24" X 24" X 7/8"
EDGE: 9/16" BEVELED Concealed
GRID: Chicago Metallic 4000 Tempra™ 9/16"
GRID FINISH: WHITE
MATCH EXISTING A.C. IF TYING INTO EXISTING CONDITIONS; Sonar-X TILES WILL RETROFIT TO EXISTING GRID

ACT-2 — EXISTING STANDARD SUSPENDED ACOUSTIC CEILING: GRID TYPE 2' x 2'

WGC-2 — NEW SUSPENDED CEILING: ARMSTRONG "WOODWORKS GRILLE" 7265 W/ 5/8" SLATS @ 2.25" HT.

NEW SUPPLY AIR DIFFUSER: REFER TO MECH DWGS FOR ADDL INFO

EXISTING (E) RETURN AIR GRILL: REFER TO MECH DWGS FOR ADDL INFO

NEW RETURN AIR GRILL: REFER TO MECH DWGS FOR ADDL INFO

EXISTING (E) EXHAUST FAN: REFER TO MECH DWGS FOR ADDL INFO

SD/F — EXISTING (E) HARD WIRED SMOKE DETECTOR W/ BATTERY BACKUP

NEW WALL

EXISTING WALL

NEW SUSPENDED LIGHT FIXTURE FLUSH W/ SLAT CLG: REFER TO ELEC DWGS FOR ADDL INFO

(N) — NEW 2x4 LAY-IN TROFFER LED: REFER TO ELEC DWGS FOR ADDL INFO

C — EXISTING RECESSED CAN LIGHT FIXTURE: REFER TO ELEC DWGS FOR ADDL INFO

(N) — NEW RECESSED CAN LIGHT FIXTURE: REFER TO ELEC DWGS FOR ADDL INFO

(N) — EMERGENCY LIGHTING - NEW 2x4 LAY-IN TROFFER LED LIGHT FIXTURE: REFER TO ELEC DWGS FOR ADDL INFO

(E) — EXISTING 2' x 4' LAY-IN FLUORESCENT LIGHT FIXTURE: REFER TO ELEC DWGS FOR ADDL INFO

(E) — EXISTING (E) SURFACE MOUNTED LIGHT FIXTURE: REFER TO ELEC DWGS FOR ADDL INFO

(N) — NEW (N) SURFACE MOUNTED LIGHT FIXTURE: REFER TO ELEC DWGS FOR ADDL INFO

EXIT — EXIT SIGN: REFER TO ELEC DWGS FOR ADDL INFO

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CALIFORNIA N.C.A.R.B. C12050

ISSUED FOR CONSTRUCTION

LICENSED ARCHITECT ROY E. COLBERT No. C12050 RENEWS 0-31-2017 STATE OF CALIFORNIA

This project has been designed by me, or under my direct supervision.

VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

VENTURA COLLEGE
4667 Telegraph Road
Ventura, CA 93003

DEPARTMENT OF MAINTENANCE & OPERATIONS
4900 Loma Vista Road
Ventura, CA 93003

PROJECT DIRECTORY

ELECTRICAL ENGINEERING:
Lucci & Associates
3251 Corte Malpaso #511
Camarillo, CA 93012
Ken Lucci
(805) 389-6520 x230 Office

HVAC MECHANICAL / PLMB ENGINEER:
A/E GROUP
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Hugh McTeman
Phone 805.653.1722

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Jack Collings, F.P.E.
Collings & Associates LLC
260 Maple Court, Suite 241
Ventura, CA. 93003
(805) 658-0003
jcollings@collingsandassociates.com

VENTURA COLLEGE
MAINTENENCE & OPERATIONS
INTERIOR TENANT IMPROVEMENT
M BUILDING

REFLECTED CEILING PLAN

SHEET NAME :

10 JULY 2017
DATE :

1" ACTUAL
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AS SHOWN — SCALE:
SES — DRAWN BY:

C16- 013 — ARCHITECT PROJECT #:
P 0107586 — VCCCD PROJECT #:

A-501
SHEET NUMBER : OF SHEETS

F:\A_ARCHITECTURE_PROJECTS\VENTURA COLLEGE MAINTENENCE BLDG\VC_M&O_ADMIN_TI_r3_v002.pln

VC_M&O_ADMIN_TI_r3_v002.pln - Wednesday, October 18, 2017

I.E. KEY NOTES

01 NEW PAINT OVER GYPSUM BOARD PER SPEC SECTION 099123 - A. COLOR: DUNN-EDWARDS DE 6365 "COLD MORNING"

02 NEW WALL BASE (CUT FROM ROLL): 4" COVE - PINNACLE RUBBER WALL BASE BY ROPPE - COLOR: "SLATE" -TYP.

03 AREA FOR NEW CREDENZA - BY OWNER
X
X

04 NEW SUSPENDED WOOD SLAT FLOATING CEILING CLOUD: ARMSTRONG "WOODWORKS GRILLE" 7265 W/ 5/8" SLATS @ 2.25" HT. SEE A-501

05 CONFERENCE ROOM 65"-90" NETWORK MONITOR/SMART TV BY OWNER - TO BE WIRED FOR INTERNET AND COMMUNICATION W/ VIDEO CONFERENCE CAPABILITIES. CENTER ON WALL AS SHOWN - SEE D4/8.01 FOR BACKING DETAILS.

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07 NOT USED ~~DRY ERASE TRAY: ATLAS ALUMINUM MARKER TRAY WITH SQUARE CORNERS 2' LENGTH - IEM #: GR-Atlas5C-02 PROVIDE PROPER BACKING FOR ATTATCHMENT~~

08 NEW UPPER WALL CABINETS - OWNER TO SELECT STYLE AND COLOR.

09 FULL SIZE REFRIDGERATOR LOCATION - REFRIDGERATOR BY OWNER

10 NEW BASE CABINETS - OWNER TO SELECT STYLE AND COLOR.

11 COUNTER TOP & BACKSPLASH - SOLID SURFACE BY DUPONT - CORIAN "LAVA ROCK" PER SPECIFICATIONS - SEE INTERIOR ELEVATIONS

12 CUSTOM FIT SHELVING BY OWNER

13 KOHLER TAHOE LAVATORY #K-2890-4U (WHITE) UNDERCOUNTER MOUNT - SEE DETAIL D4/A-802 SEE PLUMBING PLANS

14 CHICAGO FAUCET #116.211.AB.1 (ELECTRONIC)

15 COUNTER TOP: SOLID SURFACE BY DUPONT - CORIAN "LAVA ROCK" PER SPECIFICATIONS o/ 3/4" PLYWOOD SEE DETAIL D4/A-802

16 LOCKERS BY OWNER

17 ELKAY CROSSTOWN 16 GUAGE STAINLESS STEEL 30-3/4" x 18-1/2" x 8", EQUAL DOUBLE BOWL UNDERMOUNT SINK KIT - EFRU3118DBG

18 SINGLE LEVER MIXING VALVE - ZURN TEMP GARD III_Z7300-SS-MT

19 REMOVEABLE HANDSET SHOWWERHEAD WITH GRAB BAR

20 SHOWER APPROVED ADA GRAB BAR

21 FOLDING SHOWER BENCH - ADA APPROVED

22 SHOWER WALL TILE - ACT PORCELAIN #362 12" x 24", BEIGE, OVER HardieBacker® WITH 6-MIL POLYETHYLENE MOISTURE BARRIER AT STUDS PER SPECIFICATIONS

23 FLOOR TILE: AMERICAN OLEAN "SHADOW BAY", 12" x 12", SEA GRASS, SH52 - SEE SPECIFICATIONS ON THINSET

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B. COORDINATE ALL POWER AND COMMUNICATIONS SHOWN ON ELECTRICAL PLANS

C. REFER TO PROJECT GENERAL NOTES FOR ADDITIONAL NOTES. (SHEETS A-001 THROUGH A-006)

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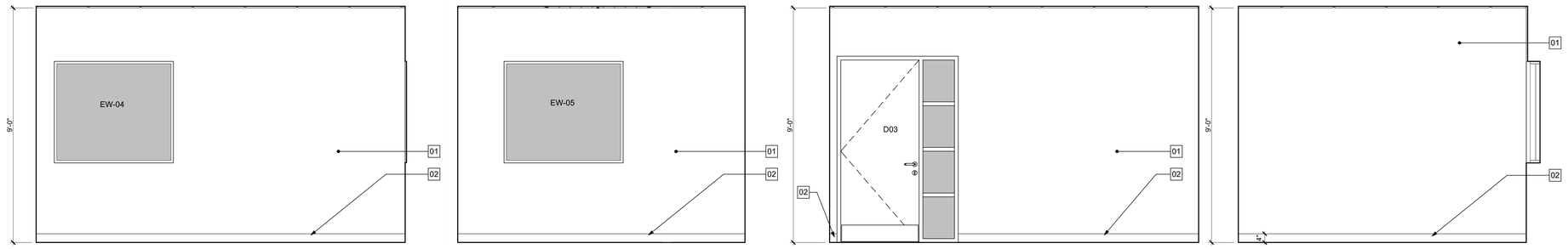
NOTE:
OFFICE 101 & 103 SHOWN AS TYPICAL FOR ALL OFFICE INTERIOR ELEVATIONS

ALL BASE TO BE CUT FROM ROLL



1 OFFICE 103 (HILDA) - NORTH
SCALE: 1/2" = 1'-0"

2 OFFICE 103 (HILDA) - EAST
SCALE: 1/2" = 1'-0"

3 OFFICE 103 (HILDA) - SOUTH
SCALE: 1/2" = 1'-0"

4 OFFICE 103 (HILDA) - WEST
SCALE: 1/2" = 1'-0"

NOTE:
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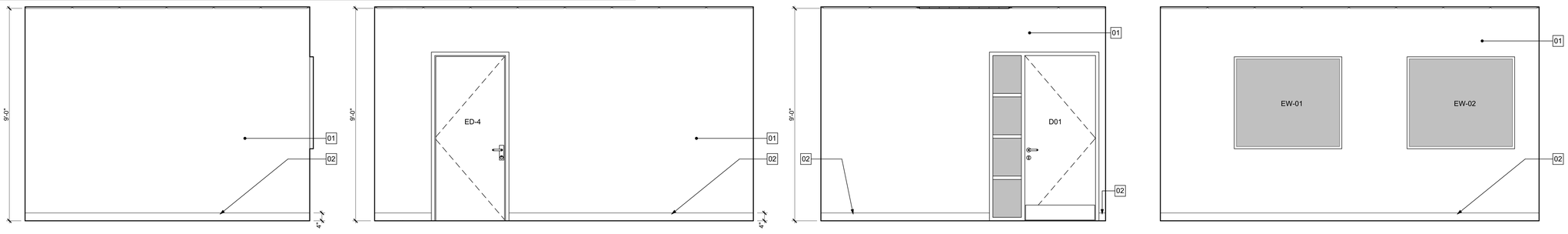
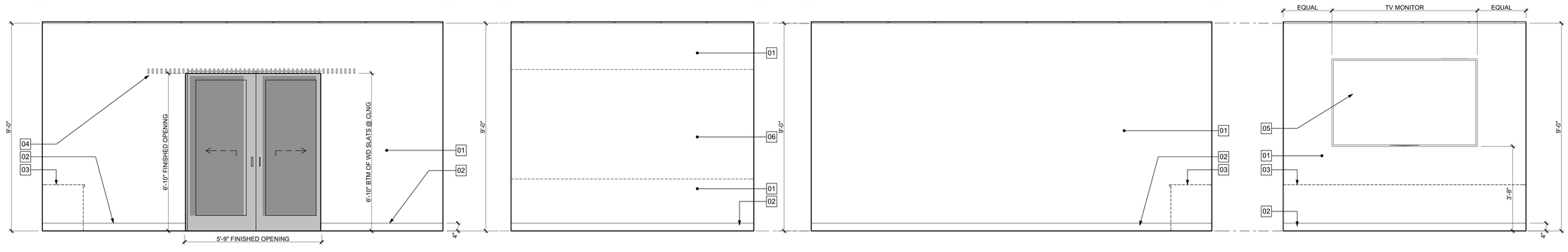


5 OFFICE 101 (JAY) - WEST
SCALE: 1/2" = 1'-0"

6 OFFICE 101 (JAY) - SOUTH
SCALE: 1/2" = 1'-0"

7 OFFICE 101 (JAY) - EAST
SCALE: 1/2" = 1'-0"

8 OFFICE 101 (JAY) - NORTH
SCALE: 1/2" = 1'-0"



9 CONFERENCE 100 - NORTH
SCALE: 1/2" = 1'-0"

10 CONFERENCE 100 - EAST
SCALE: 1/2" = 1'-0"

11 CONFERENCE 100 - SOUTH
SCALE: 1/2" = 1'-0"

12 CONFERENCE 100 - WEST
SCALE: 1/2" = 1'-0"

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS.

F:\A_ARCHITECTURE_PROJECTS\VENTURA COLLEGE MAINTENENCE BLDG\VC_M&O_ADMIN_TI_r3_v002.pln

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ADD PR RELATED DWGS: ADA + IE FINAL CONSTRUCTION SUBMITTAL	AUG 31, 2017	SES REC
1		
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3		
4		

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ROY E COLBERT

ARCHITECTURE
PLANNING
DESIGN

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805 / 650 . 9589 FX

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P 0107586 — VCCCD PROJECT #:

A-701
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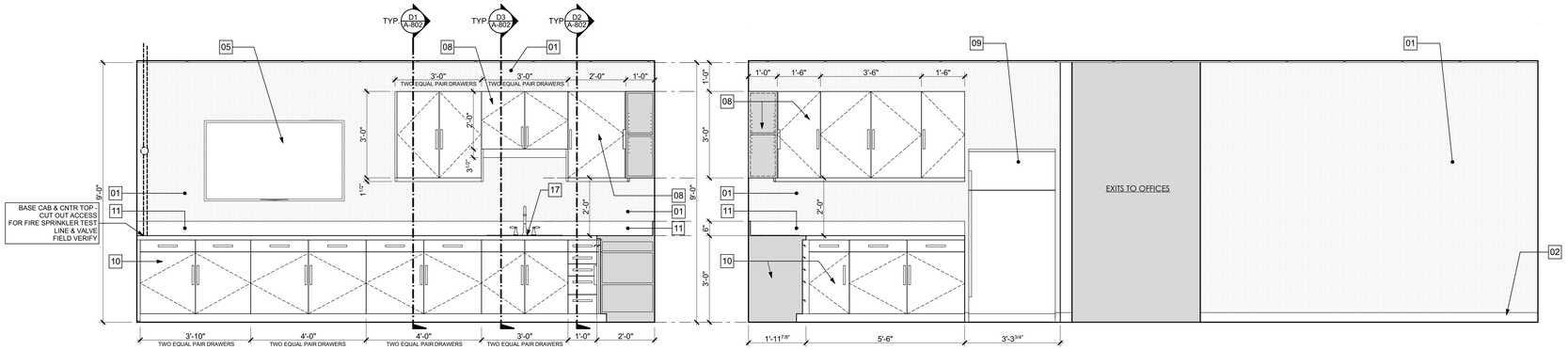
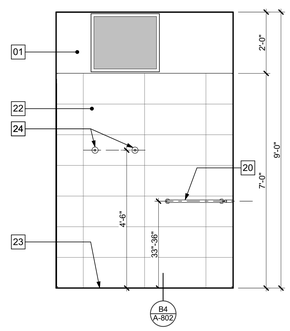
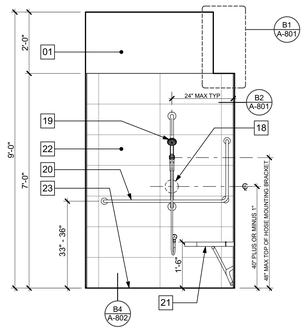


1 LUNCH ROOM 109 - SOUTH
SCALE: 1/2" = 1'-0"

2 LUNCH ROOM 109 - WEST
SCALE: 1/2" = 1'-0"



3 WMN SHOWER 117 - WEST
SCALE: 1/2" = 1'-0"



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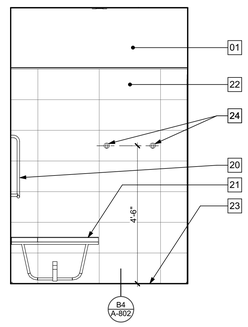
SCALE: 1/2" = 1'-0"



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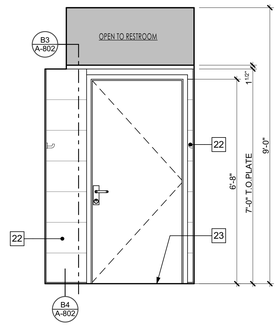
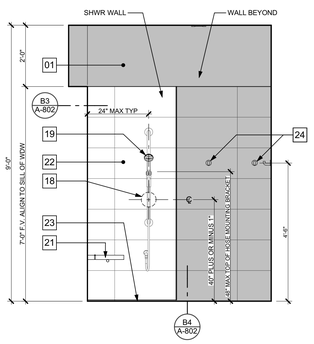
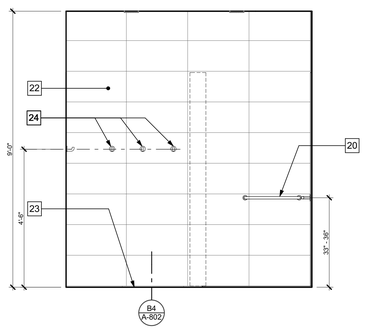
SCALE: 1/2" = 1'-0"



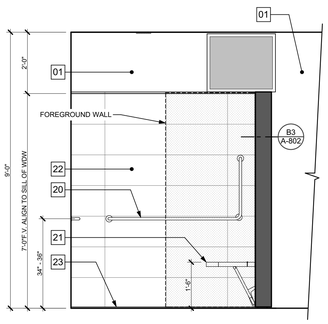
6 WMN SHOWER 117 - SOUTH
SCALE: 1/2" = 1'-0"



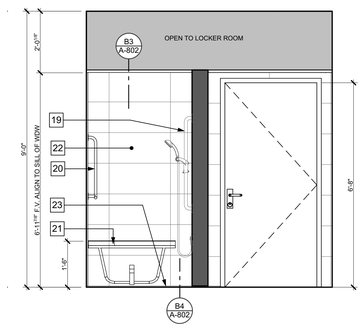
7 MENS SHWR 118 - NORTH
SCALE: 1/2" = 1'-0"



8 MENS SHWR 118 - EAST
SCALE: 1/2" = 1'-0"



9 MENS SHWR 118 - SOUTH
SCALE: 1/2" = 1'-0"



10 MENS SHWR 118 - WEST
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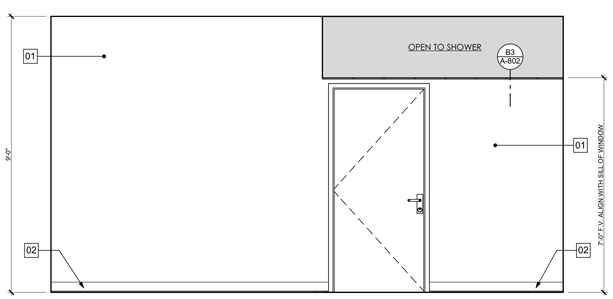
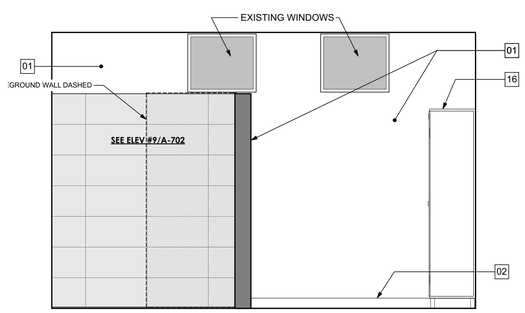


11 LOCKER RM 119 - WEST
SCALE: 1/2" = 1'-0"



12 LOCKER RM 119 - SOUTH
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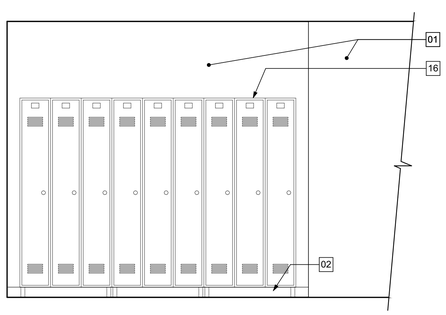

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18 MIXING VALVE LOCATION - 39" - 41" ABOVE SHOWER FLOOR

19 FLUSH MOUNTED SHOWER KIT; SINGLE STATION, WALL MOUNTED, ADA COMPLIANT, ACORN APEX MODEL 410BADA SERIES TYPE 1, SEE PLUMBING PLANS

20 SHOWER APPROVED ADA GRAB BAR

21 FOLDING SHOWER BENCH - ADA APPROVED

22 SHOWER WALL TILE - ACT PORCELAIN #362 12" x 24", BEIGE, OVER HardieBacker ® WITH 6-MIL POLYETHYLENE MOISTURE BARRIER AT STUDS PER SPECIFICATIONS

23 FLOOR TILE: AMERICAN OLEAN "SHADOW BAY", 12" x 12", SEA GRASS, SH52 - SEE SPECIFICATIONS ON THINSET

24 CHICAGO FAUCETS W8D-D86AE1-369 ABCP WORKBOARD FAUCET, 8"

25 STAINLESS STEEL SHOWER HOOKS

NOTE:
WALL BASE TO BE CUT FROM ROLL

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REVISIONS / DESCRIPTION	DATE	BY
GENERAL UPDATE PER JM REVIEW	AUG 11, 2017	SES REC
ADD PR1 RELATED DWGS: ADA + IE FINAL CONSTRUCTION SUBMITTAL	AUG 31, 2017 OCT 01, 2017	SES REC
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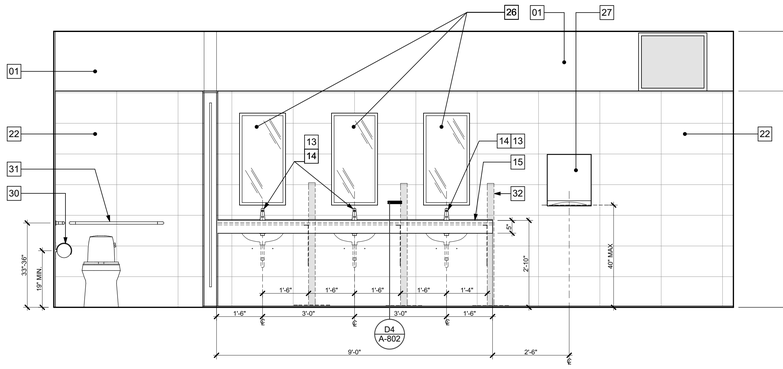
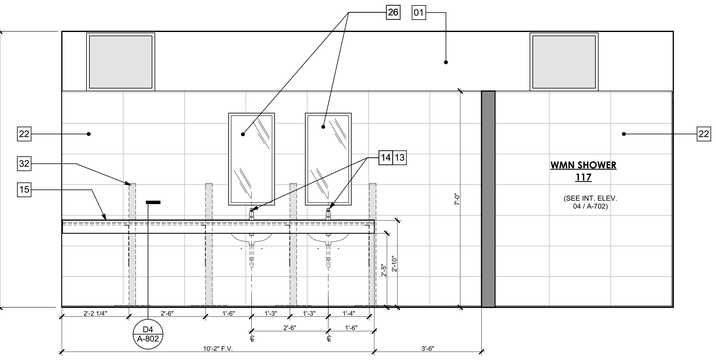


2 MENS RESTROOM 116 - WEST

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



1 WOMEN RESTROOM 115 - WEST

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

I.E. SHEET NOTES

A. COORDINATE ALL SWITCHES AND FACE PLATES PER ELECTRICAL DRAWINGS.

B. COORDINATE ALL POWER AND COMMUNICATIONS SHOWN ON ELECTRICAL PLANS

C. REFER TO PROJECT GENERAL NOTES FOR ADDITIONAL NOTES. (SHEETS A-001 THROUGH A-006)

D. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION ON SUPPLY AIR & RETURN AIR DIFFUSERS.

E. COORDINATE ALL PLUMBING WORKS WITH CONSULTANT DRAWINGS.

F. ANY EQUIPMENT OR ITEMS CALLED OUT "BY OWNER" SHALL BE COORDINATED AND APPROVED WITH THE ARCHITECT UPON SELECTION OF THAT PARTICULAR ITEM BY OWNER.

G. NOT USED

H. GC TO PROVIDE DUST PROTECTION THROUGHOUT CONSTRUCTION.

I. GC TO VERIFY ALL NEW WORK IS COMPLIANT WITH THE 2016 CBC.

J. ALL WORK SHOWN REFLECTS AS-BUILT MEASUREMENTS. HOWEVER, ANY NEW MODIFICATIONS SHALL REQUIRE FIELD VERIFICATION OF ALL DIMENSIONS SHOWN ON THIS PLAN PRIOR TO COMMENCING WORK.

K. ALL DIMENSIONS ARE TO THE FACE OF METAL STUD UNLESS U.N.O.

I.E. KEY NOTES

01 NEW PAINT OVER GYPSUM BOARD PER SPEC SECTION 099123 - A. COLOR: DUNN-EDWARDS DE 6365 "COLD MORNING"

02 NEW WALL BASE: 4" COVE - PINNACLE RUBBER WALL BASE BY ROPPE - COLOR: "SLATE" -TYP.

03 AREA FOR NEW CREDENZA - BY OWNER

04 NEW SUSPENDED WOOD SLAT FLOATING CEILING CLOUD: ARMSTRONG "WOODWORKS GRILLE" 7265 W/ 5/8" SLATS @ 2.25" HT. SEE A-501

05 CONFERENCE ROOM 65"-90" NETWORK MONITOR/SMART TV BY OWNER - TO BE WIRED FOR INTERNET AND COMMUNICATION W/ VIDEO CONFERENCE CAPABILITIES. CENTER ON WALL AS SHOWN - SEE D4/8.01 FOR BACKING DETAILS.

06 LOCATION FOR IDEA PAINT PRO DRY-ERASE COATING - APPLY PER SPECS. DASHED LINES DELINEATE EXTENTS OF COATING - COLOR TO MATCH WALL PAINT.

07 NOT USED ~~DRY ERASE TRAY: ATLAS ALUMINUM MARKER TRAY WITH SQUARE CORNERS 2' LENGTH - IEM #: GR-AtlasSC-02~~

08 NEW UPPER WALL CABINETS W/ ADJUSTABLE SHELVING - OWNER TO SELECT STYLE AND COLOR.

09 FULL SIZE REFRIDGERATOR LOCATION - REFRIDGERATOR BY OWNER

10 NEW BASE CABINETS W/ ADJUSTABLE SHELVING - OWNER TO SELECT STYLE AND COLOR.

11 COUNTER TOP & BACKSPLASH - SOLID SURFACE BY DUPONT - CORIAN "LAVA ROCK" PER SPECIFICATIONS - SEE INTERIOR ELEVATIONS

12 CUSTOM FIT SHELVING BY OWNER

13 KOHLER TAHOE LAVATORY #K-2890-4U (WHITE) UNDERCOUNTER MOUNT - SEE DETAIL D4/A-802 SEE PLUMBING PLANS

14 CHICAGO FAUCET #116.211.AB.1 (ELECTRONIC)

15 COUNTER TOP: SOLID SURFACE BY DUPONT - CORIAN "LAVA ROCK" PER SPECIFICATIONS o/ 3/4" PLYWOOD SEE DETAIL D4/A-802

16 LOCKERS BY OWNER

17 ELKAY CROSSTOWN 16 GUAGE STAINLESS STEEL 30-3/4" x 18-1/2" x 8", EQUAL DOUBLE BOWL UNDERMOUNT SINK KIT - EFRU3118DBG

18 MIXING VALVE LOCATION - 39" - 41" ABOVE SHOWER FLOOR

19 FLUSH MOUNTED SHOWER KIT: SINGLE STATION, WALL MOUNTED, ADA COMPLIANT, ACORN APEX MODEL 410BADA SERIES TYPE 1. SEE PLUMBING PLANS

20 SHOWER APPROVED ADA GRAB BAR

21 FOLDING SHOWER BENCH - ADA APPROVED

22 WALL TILE - ACT PORCELAIN #362 12" x 24", BEIGE, OVER HardieBacker ® WITH 6-MIL POLYETHYLENE MOISTURE BARRIER AT STUDS FOR SHOWER LOCATIONS PER SPECIFICATIONS

23 FLOOR TILE: AMERICAN OLEAN "SHADOW BAY", 12" x 12", SEA GRASS, SH52 - SEE SPECIFICATIONS ON THINSET

24 CHICAGO FAUCETS W8D-DB6AE1-369 ABCP WORKBOARD FAUCET, 8"

25 STAINLESS STEEL SHOWER HOOKS

26 MIRROR - BRADLEY STANDARD MODEL 781-1836

27 WAXIE "CLEAN & SOFT" #850593 TOWEL DISPENSER SURFACE MOUNT (SUPPLIED BY VENTURA COLLEGE)

28 GEORGIA PACIFIC #56508 SOFTPULL TOILET TISSUE DISPENSER - INSTALL BY CONTRACTOR

29 GEORGIA PACIFIC #57710 SAF-T-GARD TOILET SEAT COVER DISPENSER - INSTALL BY CONTRACTOR

30 BOBRICK CLASSIC SERIES #B-2888 TOILET TISSUE DISPENSER - SURFACE MOUNT (AT ACCESSIBLE TOILET STALLS)

31 36" l X 1 1/2" DIAM. STAINLESS STEEL GRAB BAR @ 33"-36" A.F.F. (DISABLED ACCESS)

32 48" HEIGHT "SCAFCO STEEL PONYWALL SUPPORT" (DASHED) CONNECTED TO FABRICATED STEEL FLAT STOCK SUPPORT ASSEMBLY - SEE DETAIL D4/A-802 & SPECIFICATIONS FOR ANCHORING

THIS PLAN IS BASED UPON DATACOMPILED AND FURNISHED BY OTHERS

REVISIONS / DESCRIPTION	DATE	BY
GENERAL UPDATE PER JM REVIEW	AUG 11, 2017	SES REC
ADD PR RELATED DWGS: ADA + IE FINAL CONSTRUCTION SUBMITTAL	AUG 31, 2017	SES REC
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3		
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ROY E COLBERT

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CALIFORNIA C12050
N.C.A.R.B.

ISSUED FOR CONSTRUCTION

LICENSED ARCHITECT ROY E. COLBERT C12050 RENEWS 10-31-2017 STATE OF CALIFORNIA

This project has been designed by me, or under my direct supervision.

VENTURA COUNTY
COMMUNITY COLLEGE
DISTRICT

VENTURA COLLEGE
4667 Telegraph Road
Ventura, CA 93003

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MAINTENANCE &
OPERATIONS
4900 Loma Vista Road
Ventura, CA 93003

PROJECT DIRECTORY

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Camarillo, CA 93012
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HVAC MECHANICAL / PLMB ENGINEER:
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Ventura, CA 93001
Hugh McTeman
Phone 805.653.1722

FIRE PROTECTION ENGINEER:
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Collings & Associates LLC
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jcollings@collingsandassociates.com

VENTURA COLLEGE
MAINTENENCE & OPERATIONS
INTERIOR TENANT IMPROVEMENT
M BUILDING

INTERIOR ELEVATIONS

SHEET NAME :

10 JULY 2017

DATE :

1" ACTUAL

IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ACTUAL MEASUREMENT OF ALL LABELED SCALES.

AS SHOWN — SCALE:
SES — DRAWN BY:

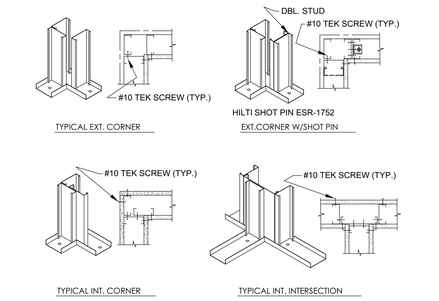
C16- 013 — ARCHITECT PROJECT #:
P 0107586 — VCCCD PROJECT #:

A-703

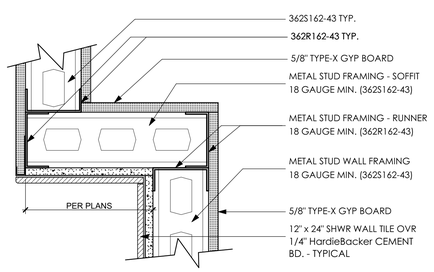
SHEET NUMBER : OF SHEETS

F:\A_ARCHITECTURE_PROJECTS\VENTURA COLLEGE MAINTENENCE BLDG\VC_M&O_ADMIN_TI_r3_v002.pln

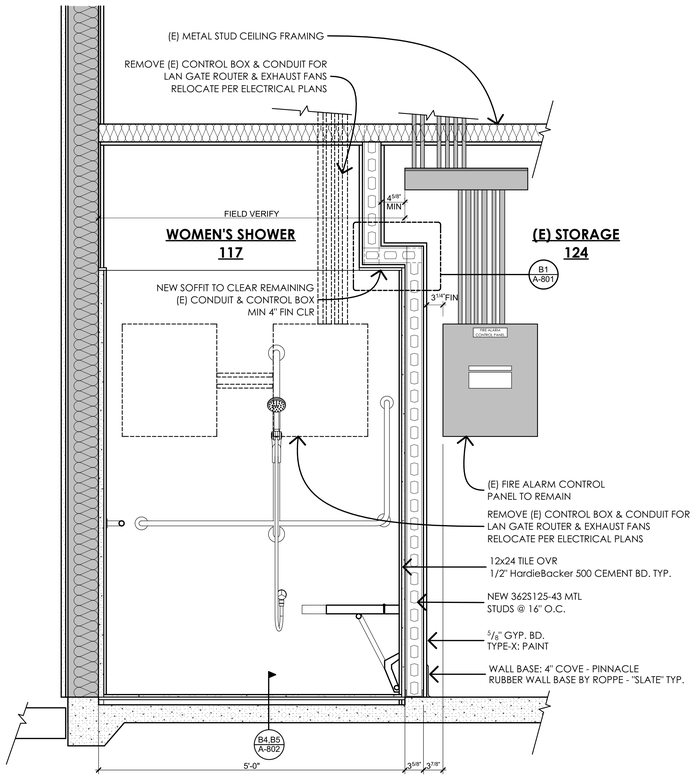
VC_M&O_ADMIN_TI_r3_v002.pln - Thursday, August 31, 2017



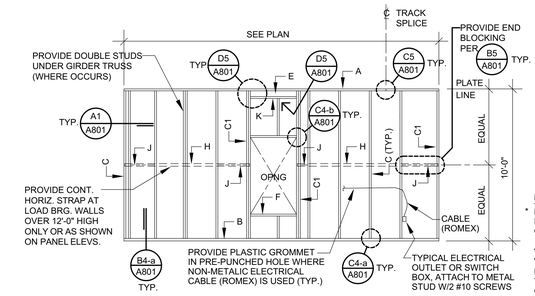
A1 TYPICAL MTL STUD CORNER DTL
NOT TO SCALE



B1 SOFFIT @ WMN SHWR
SCALE: 3" = 1'-0"



B2 WALL X-SCTN @ WMN SHWR
SCALE: 1" = 1'-0"



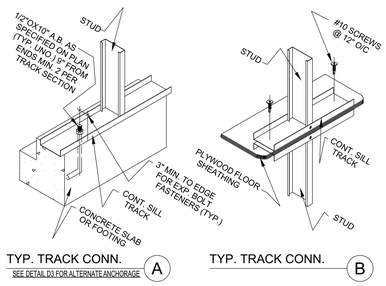
TYPICAL FRAMING			
MARK	DESCRIPTION	QTY	SIZE (*)
A	TOP TRACK	"	362T125-43
B	BOTTOM TRACK	"	362T125-43
C	STUD	"	362S125-43
C1	DOUBLE STUD	"	(2)362S125-43
D	BEAM	"	SEE PLAN
E	HEADER	"	SEE PLAN
F	SILL	"	362T125-43
H	STRAP	"	2"x16 GA.
J	BLOCKING	"	362B125-43
K	HEADER TRACK	"	362T125-43

NOTES:
* MEMBER SIZES SHOWN IN THIS DETAIL ARE TYPICAL EXCEPT AS OTHERWISE SHOWN ON THE PLANS OR SPECIFIC PANEL ELEVATIONS.

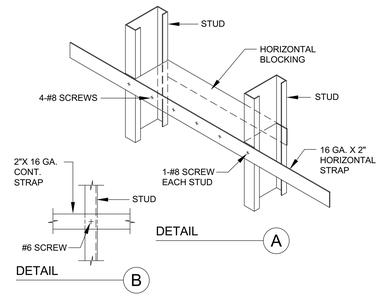
ALL STUDS SHALL BE SPACED AT 24" O/C EXCEPT AS SHOWN OTHERWISE AND AS NOTED BELOW.

LOAD BEARING STUDS SHALL BE SPACED SO AS TO FALL DIRECTLY UNDER ROOF TRUSSES/RAFTERS OR UNDER FLOOR JOISTS.

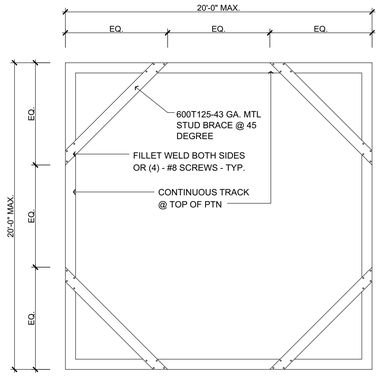
A4 TYPICAL MTL STUD PANEL ELEVATION
NOT TO SCALE



B4 TYP. TRACK ANCHORAGE
NOT TO SCALE



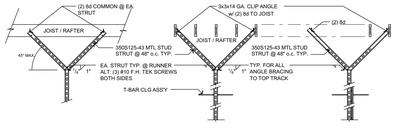
B5 HORIZ. BRACING DETAILS
NOT TO SCALE



NOTE: MAX. LENGTH OF UNBRACED LENGTHS OF PTN SHALL BE 16'-0" BETWEEN CORNERS

DTL OF PARTITION BRACING @ TOP RUNNER

LTWT METAL CEILING JOIST TABLE		
SIZE	SPACING	SPAN
3 5/8" x 1 1/4" x 18 GA 362S125-43	@ 24" O.C.	7'-6"
3 5/8" x 1 1/4" x 18 GA 362S125-43	@ 16" O.C.	7'-6"
6" x 1 1/4" x 18 GA 600S125-43	@ 24" O.C.	13'-0"
6" x 1 1/4" x 18 GA 600S125-43	@ 16" O.C.	13'-0"



MTL STUD PTN PERPENDICULAR | MTL STUD PTN PARALLEL | MTL STUD PTN w/ ACOUSTIC INSULATION

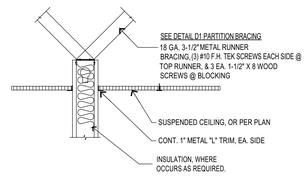
ALTERNATE ALLOWABLE STUD PARTITION BRACING DETAILS

MINIMUM BRACING SHALL BE 350S125-43 METAL STUDS @ 48" O.C. @ 45 DEG. FROM HORIZONTAL FROM TOP TRACK (RUNNER) TO STRUCTURE ABOVE. THIS BRACING IS REQUIRED WHERE HORIZONTAL SPAN IS 8'-0" OR GREATER. MAXIMUM VERTICAL DISTANCE FROM TOP OF PARTITION TO STRUCTURE ABOVE IS NO GREATER THAN 6'-0".

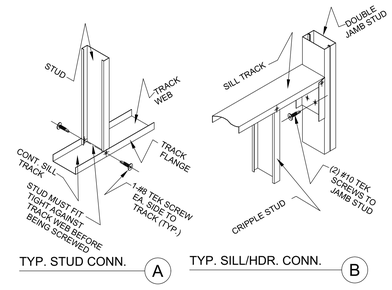
ANCHOR BOTTOM TRACK (SILL PLATE) TO CONCRETE SLAB FLOOR WITH HILTI SHOT PINS @ 24" O.C. (ESR-1663)

LTWT METAL STUD TABLE			
SIZE		SPACING	SPAN
2 1/2" x 1 1/4" x 18 GA	250S125-43	@ 12" O.C.	11'-11"
2 1/2" x 1 1/4" x 18 GA	250S125-43	@ 16" O.C.	11'-11"
2 1/2" x 1 1/4" x 18 GA	250S125-43	@ 24" O.C.	11'-11"
3 5/8" x 1 1/4" x 18 GA	362S125-43	@ 12" O.C.	15'-4"
3 5/8" x 1 1/4" x 18 GA	362S125-43	@ 16" O.C.	14'-4"
3 5/8" x 1 1/4" x 18 GA	362S125-43	@ 24" O.C.	13'-5"
4" x 1 1/4" x 18 GA	400S125-43	@ 12" O.C.	16'-5"
4" x 1 1/4" x 18 GA	400S125-43	@ 16" O.C.	15'-4"
4" x 1 1/4" x 18 GA	400S125-43	@ 24" O.C.	14'-2"

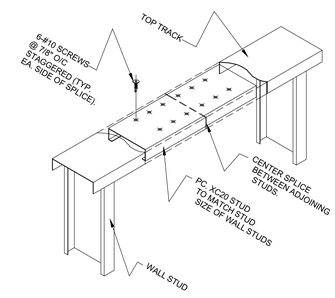
D1 PARTITION BRACING DETAILS
SCALE: 1/4" = 1'-0"



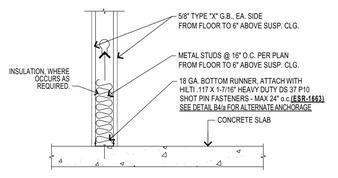
C3 PARTITION WALL @ SUSP. CLNG.
SCALE: 1/4" = 1'-0"



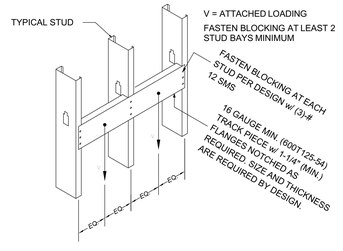
C4 MTL STUD DETAILS
NOT TO SCALE



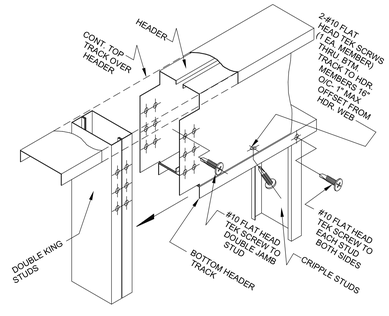
C5 TYP. TOP TRACK SPLICE
NOT TO SCALE



D3 PARTITION WALL at BASE
SCALE: 1 1/2"= 1'-0"



D4 BACKING PLATE DETAIL
NOT TO SCALE



D5 TYP. HEADER CONNECTION
NOT TO SCALE

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REVISIONS / DESCRIPTION	DATE	BY
GENERAL UPDATE PER JM REVIEW	AUG 11, 2017	SES REC
ADD PRR RELATED DWGS: ADA + IE FINAL CONSTRUCTION SUBMITTAL	AUG 31, 2017	SES REC
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3		
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ISSUED FOR CONSTRUCTION

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CALIFORNIA C12050
N.C.A.R.B.

LICENSED ARCHITECT ROY E. COLBERT No. C12050 RENEWS 10-31-2017 STATE OF CALIFORNIA

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(805) 658-0003
jcollings@collingsandassociates.com

VENTURA COLLEGE MAINTENENCE & OPERATIONS INTERIOR TENANT IMPROVEMENT M BUILDING

DETAILS & WALL SECTIONS

SHEET NAME :

10 JULY 2017

DATE :

1" ACTUAL

IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THE DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ACTUAL MEASUREMENT OF ALL LABELED SCALES.

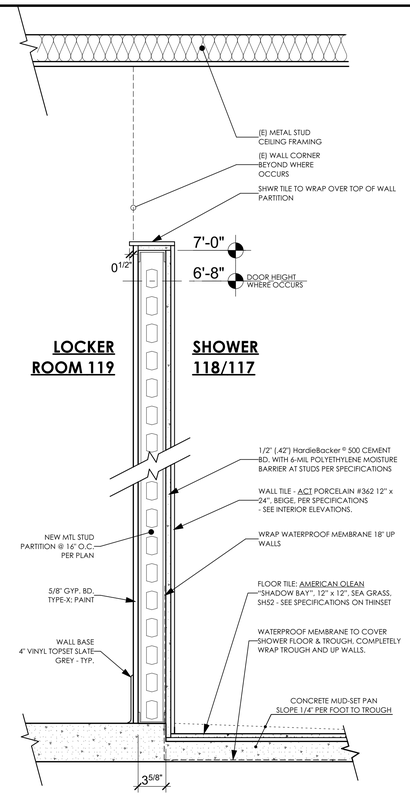
AS SHOWN — SCALE:
SES — DRAWN BY:

C16- 013 — ARCHITECT PROJECT #:
P 0107586 — VCCCD PROJECT #:

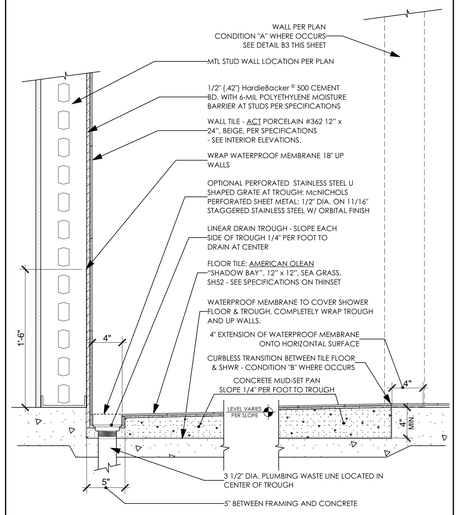
A-801

SHEET NUMBER : OF SHEETS

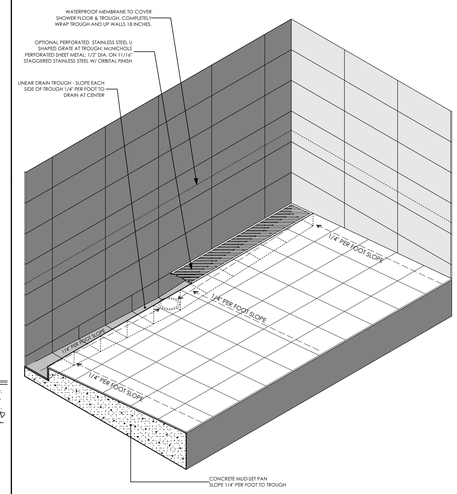
F:\A_ARCHITECTURE_PROJECTS\VENTURA COLLEGE MAINTENENCE BLDG\VC_M&O_ADMIN_TI_r3_v002.pln



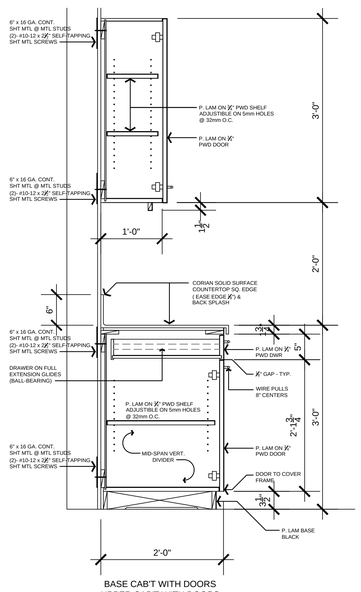
B3 NEW WALL PARTITION @ SHOWER
SCALE: 1 1/2"= 1'-0"



B4 SHOWER FLOOR DETAIL
SCALE: 1 1/2"= 1'-0"

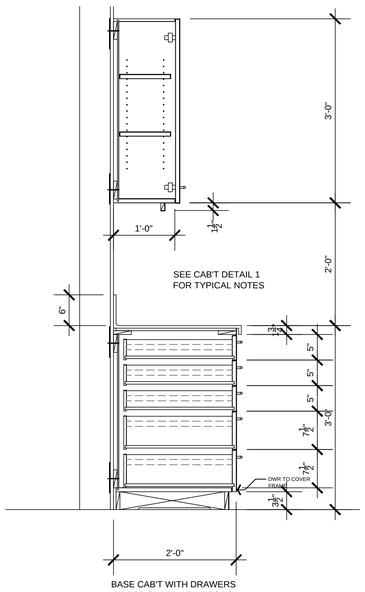


B5 SHOWER FLOOR AXO. DETAIL
SCALE: 1" = 1'-0"



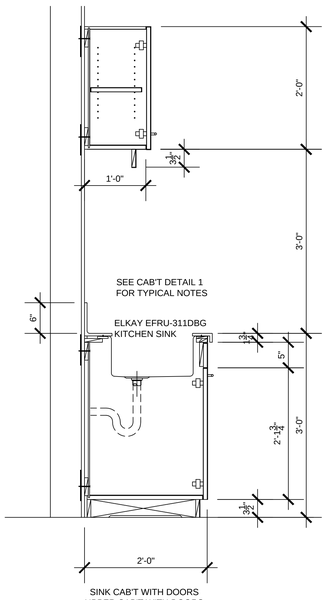
BASE CAB'T WITH DOORS
UPPER CAB'T WITH DOORS

D1 CABINET DETAIL - BREAK ROOM
SCALE: 1" = 1'-0"



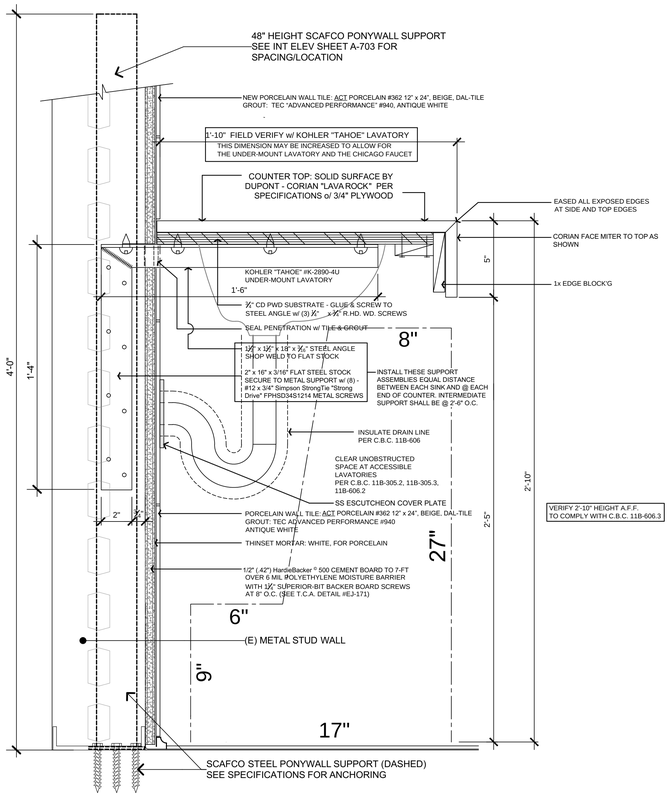
BASE CAB'T WITH DRAWERS
UPPER CAB'T WITH DOORS

D2 CABINET DETAIL - BREAK ROOM
SCALE: 1" = 1'-0"



SINK CAB'T WITH DOORS
UPPER CAB'T WITH DOORS

D3 CABINET DETAIL - BREAK ROOM
SCALE: 1" = 1'-0"



D4 H.C. COUNTER TOP SUPPORT DETAIL - TYPICAL
SCALE: 3" = 1'-0"

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REVISIONS / DESCRIPTION	DATE	BY
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CALIFORNIA C12050
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LICENSED ARCHITECT ROY E. COLBERT LICENSE C12050 RENEWS 10-31-2017 STATE OF CALIFORNIA

This project has been designed by me, or under my direct supervision.

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DISTRICT

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VENTURA COLLEGE
MAINTENENCE & OPERATIONS
INTERIOR TENANT IMPROVEMENT
M BUILDING

DETAILS & WALL SECTIONS

SHEET NAME :

10 JULY 2017

DATE :

1" ACTUAL

IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THE DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ACTUAL MEASUREMENT OF ALL LABELED SCALES.

AS SHOWN — SCALE:
SES — DRAWN BY:

C16- 013 — ARCHITECT PROJECT #:
P 0107586 — VCCCD PROJECT #:

A-802

SHEET NUMBER : OF SHEETS

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DRAFTER: Lee Keener DRAWING FILENAME: 16247E100 PATHNAME: G:\16\247\EL\Sheets DATE: 3 September 2017 TIME: 12:44 pm

GENERAL NOTES

A. GENERAL

1. SCOPE
THE DRAWINGS AND THESE GENERAL NOTES DESCRIBE THE SCOPE OF WORK AND SYSTEMS. THE MATERIAL REQUIRED FOR THE WORK SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED, UNLESS SPECIFICALLY NOTED OTHERWISE. THE WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING PRINCIPAL SYSTEMS AND EQUIPMENT.

2. PERMITS AND CHARGES
OBTAIN AND PAY FOR ALL NECESSARY CONSTRUCTION PERMITS, INSPECTION FEES, AND OTHER CHARGES BY AGENCIES HAVING JURISDICTION.

3. REGULATIONS AND CODES
PROVIDE AND INSTALL ALL MATERIALS IN CONFORMANCE WITH THE 2016 C.E.C., CALIFORNIA ADMINISTRATIVE CODE TITLE 8, AND OTHER CODES AND REGULATIONS HAVING JURISDICTION. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY AND THE MANUFACTURERS RECOMMENDATIONS.

4. VERIFYING EXISTING CONDITIONS
BEFORE SUBMITTING BID, BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AT THE BUILDING. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER. BY THE ACT OF SUBMITTING A BID PROPOSAL FOR THE WORK, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH STUDY AND EXAMINATION AND TO ACCEPT ALL CONDITIONS PRESENT AT THE SITE. NO REQUEST FOR ADDITIONAL PAYMENT WILL BE CONSIDERED AS VALID, DUE TO FAILURE TO ALLOW FOR CONDITIONS WHICH MAY EXIST.

5. COORDINATION
COORDINATE ALL WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTION REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.

ELECTRICAL EQUIPMENT LOCATIONS INDICATED ARE SHOWN DIAGRAMMATICALLY, EXACT LOCATION SHALL BE VERIFIED.

SCALING OFF OF DRAWINGS SHALL BE DONE AT CONTRACTORS RISK. DO NOT SCALE DEVICES, LIGHTING FIXTURES OR ANY EQUIPMENT FROM PLANS.

LIGHTING FIXTURE QUANTITIES AND LENGTHS SHALL BE CONTRACTORS RESPONSIBILITY. FIXTURES ARE SHOWN FOR CIRCUITING ONLY. CONTRACTOR TO VERIFY SIZES & QUANTITIES PRIOR TO BID.

6. SERVICE CONTINUITY
UNINTERRUPTED EXISTING ELECTRICAL POWER SHALL BE MAINTAINED TO OTHER TRADES FOR TEMPORARY POWER AREAS OF THE SITE DURING CONSTRUCTION. PROVIDE ANY TEMPORARY SERVICES AS MAY BE REQUIRED. IDENTIFY AT BID TIME, ALL WORK TO BE DONE ON PREMIUM TIME AND THE TOTAL OVERTIME MAN-HOURS REQUIRED FOR COMPLETION.

7. AS BUILT
PROVIDE RECORD DRAWINGS IN ACAD TO THE OWNER WITH ALL CHANGES NOTED THEREON AT THE COMPLETION OF THE PROJECT. RECORD DRAWINGS SHALL BE SIGNED AND DATED BY CONTRACTOR PRIOR TO RELEASE OF FINAL RETENTION OF ALL MONIES.

8. GUARANTEE
CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL LABOR AND MATERIALS ON ALL WORK AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR.

9. SHOP DRAWINGS
SUBMIT SHOP DRAWINGS AND MATERIAL LIST FOR REVIEW PRIOR TO COMMENCING ANY WORK. ALL EQUIPMENT TO BEAR U.L. LABEL OR THAT OF ANOTHER ACCEPTABLE TESTING LABORATORY. SHOP DRAWINGS MUST BE STAMPED BY THE CONTRACTOR FOR CONFORMANCE PRIOR TO SUBMITTAL.

SUBMIT THREE HARD COPY SETS OF SHOP DRAWINGS FOR REVIEW PRIOR TO PURCHASING ALL BREAKER MOUNTING HARDWARE, DISCONNECT SWITCHES, FUSES, CONTROLLERS, LIGHTING FIXTURES, LIGHT SWITCHES, RECEPTACLES, ETC.

10. CONTRACTOR BID
CONTRACTOR'S BID SHALL BE BASED ON ALL WORK SHOWN ON THE PLANS AND AS SPECIFIED. IF CONTRACTOR PROPOSES TO SUBSTITUTE FOR EQUIPMENT SPECIFIED, HE SHALL SUBMIT HIS REQUEST FOR CONSIDERATION OF THE OWNER AND ENGINEER PRIOR TO BID IN WRITING. ALL SUBSTITUTIONS MUST BE REVIEWED BY THE ENGINEER IN WRITING. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, AND THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS OWN EXPENSE FOR ANY CHARGES RESULTING FROM HIS PROPOSED SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS OWN WORK, THE OWNER, ENGINEER OF RECORD OR THE WORK OF OTHER CONTRACTORS.

B. MATERIAL AND INSTALLATION
ALL WORK AND MATERIAL SHALL CONFORM TO THE LATEST RULES OF THE GOVERNING ELECTRICAL CODE AND INSTALLATION SHALL BE OF THE LATEST INDUSTRY STANDARDS OF WORKMANSHIP.

ALL MATERIALS SHALL BE NEW AND LISTED FOR THE APPLICATION BY UNDERWRITERS LABORATORY (U.L.).

1. CONDUITS
CONDUIT SHALL BE EMT, PVC, IMC, RIGID OR FLEXIBLE STEEL TYPE. CONDUIT SHALL BE MANUFACTURED IN ACCORDANCE WITH UL-1. A GROUND WIRE IS REQUIRED IN ALL FLEXIBLE CONDUIT AND UNDERGROUND CONDUIT. BUSHINGS SHALL BE INSTALLED ON ALL COMMUNICATION, TELEPHONE & SPEAKER CONDUITS. PROVIDE 3/16" NYLON PULL STRING IN ALL EMPTY CONDUITS. NO MC, BX OR AC90 SHALL BE PERMITTED. FLEXIBLE STEEL CONDUIT RUNS SHALL BE LIMITED TO A MAXIMUM LENGTH OF 6 FOOT.

2. SWITCHES AND RECEPTACLES
PROVIDE 20AMP NEMA RATED SWITCHES AND RECEPTACLES OF SPECIFICATION GRADE. ALL SWITCHES SHALL BE RATED FOR 120 AND/OR 277 VOLT AND RECEPTACLES SHALL BE NEMA 5-20R. IN ALL OFFICES AND OFFICE AREAS DEVICES SHALL BE DECORA SERIES TYPE WITH COLOR SELECTION BY CONTRACTOR/OWNERS REPRESENTATIVE.

3. FEEDERS AND BRANCH CIRCUITS IDENTIFICATION
IDENTIFY FEEDERS WITH THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, LOAD END, AND IN PULL BOXES WITH E-Z CODE OR OTHER APPROVED WIRE MARKER.

IDENTIFY BRANCH CIRCUITS WITH I.D. MARKERS, THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, AT ALL SPLICES, IN JUNCTION BOXES, AND IN OUTLETS. USE PLASTIC COATED SELF-STICKING MARKERS SUCH AS THOMAS & BETTS E-Z CODE FOR IDENTIFICATION OF CONDUCTORS.

IDENTIFY SIGNAL & COMMUNICATION CABLES AT TERMINAL AND OUTLET UNIQUELY WITH PERMANENT LABELING.

4. CONDUCTORS
DELIVER ALL CONDUCTORS TO THE JOB SITE IN ORIGINAL UNBROKEN CARTON OR REEL, PROPERLY TAGGED WITH U.L. LABEL, SIZE, TYPE, MANUFACTURER, TRADE NAME AND THE DATE OF MANUFACTURE. (MUST BE MANUFACTURED WITHIN 6 MONTHS)

PROVIDE COPPER CONDUCTORS #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. PROVIDE STRANDED COPPER CONDUCTORS FOR ALL WIRING. USE CONDUCTORS WITH 90°C THHN/THWN 600 VOLTS INSULATION, UNLESS OTHERWISE NOTED.

5. LIGHTING FIXTURES
PROVIDE LIGHTING FIXTURES WITH ELECTRONIC BALLASTS PER SCHEDULE, PROVIDE WITH LAMPS BY G.E., PHILIPS OR SYLVANIA AS STATED IN THE SCHEDULE.

NO SUBSTITUTIONS OF FIXTURES SHALL BE PROVIDED WITHOUT THE APPROVAL OF THE ENGINEER -OF-RECORD.

6. PANELBOARDS (BID SQUARE D; PROVIDE GE ALTERNATE BID)
DISTRIBUTION AND LIGHTING PANELBOARDS WITHIN PROJECT AREA SHALL BE OF THE COPPER BUS THREE PHASE, FOUR WIRE DISTRIBUTED PHASING TYPE. CIRCUITING SHALL BE ARRANGED TO PROVIDE, AS NEARLY AS POSSIBLE, AN EVENLY BALANCED LOAD ON ALL PHASES. PANELBOARDS SHALL BE BOLT-ON CIRCUIT BREAKER TYPE. AVAILABLE FAULT CURRENT IS STATED ON PANELBOARD SCHEDULE. PROVIDE PANEL IDENTIFICATION NAMEPLATE (ENGRAVED ON-ADHESIVE 1/2" MINIMUM LETTERS) AND TYPEWRITTEN LIST OF CIRCUITS IN THE DIRECTORY FRAME.

7. ELECTRICAL CERTIFICATION
"ELECTRICIANS" PERFORMING WORK ON THIS PROJECT SHALL BE CURRENTLY CERTIFIED IN ACCORDANCE WITH THE STATE OF CALIFORNIA AB931 AND THE DIVISION OF APPRENTISHIP STANDARDS SECTION 3099.

C. DEMOLITION
1. NOTIFY THE OWNER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, AND WHICH IS NOT INDICATED ON THE PLANS.
2. ALL REMOVED MATERIALS AND EQUIPMENT WHICH ARE SALVAGEABLE SHALL REMAIN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER, AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGE. REMOVE FROM PREMISES AND DISPOSE OF ALL MATERIALS CONSIDERED BY THE OWNER TO BE SCRAP.
3. ALL DEVICES, CIRCUITS CONDUCTORS, FEEDERS ETC., WHEN NOTED TO BE REMOVED, SHALL BE REMOVED TO THE LAST ACTIVE DEVICE. ALL OVER-CURRENT PROTECTION AND DISCONNECT DEVICES NO LONGER UTILIZED BUT REMAINING AS LAST ACTIVE DEVICE SHALL BE LABELED AS 'SPARE'. COORDINATE ALL OUTAGES WITH OWNERS REPRESENTATIVE.
4. DISCONNECT AND MAKE SAFE ALL ELECTRICAL SYSTEMS ON SITE AND IN WALL, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.
5. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
6. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY AND RE-LABEL DEVICES AS SPARES.
7. REMOVE ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOOR, AND PATCH SURFACES.
8. DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVE. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED.
9. DISCONNECT AND REMOVE ABANDONED LUMINAIRES. REMOVE BRACKETS, STEMS, HANGERS, AND OTHER ACCESSORIES.
10. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK
11. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.
12. BEGINNING OF DEMOLITION MEANS CONTRACTOR ACCEPTS EXISTING CONDITIONS.

D. EXECUTION
1. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE CONFINES AS MUCH AS POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.
2. EQUIPMENT, MATERIALS AND SUPPLIES REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.
3. DO ALL DRILLING, CUTTING, CHANNELING AND PATCHING REQUIRED TO INSTALL ELECTRICAL WORK AS INDICATED OR HEREIN SPECIFIED. ALL HOLES, CURBS, ETC., IN FLOORS, CEILINGS AND WALLS SHALL BE PATCHED, UNLESS INDICATED OTHERWISE. PAINT ALL NEW ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES AND FITTINGS PENETRATING INTO FIRE RATED ENVELOPES, SPACES, ETC.
4. ALL CONDUIT RUNS SHALL BE CONCEALED, UNLESS SHOWN OTHERWISE. PROVIDE A PULL WIRE IN ALL EMPTY CONDUITS.
5. EXISTING CONDITION SHOWN IS FROM AVAILABLE RECORD DRAWINGS AND VISUAL FIELD SURVEY AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITION AT SITE.
6. ALL WORK SHOWN IS NEW UNLESS SPECIALLY INDICATED AS EXISTING (X). ALL ELECTRICAL EQUIPMENT MOUNTING AND ANCHORAGE MUST CONFORM WITH LOCAL AND STATE SEISMIC CODES.

E. TELEPHONE SYSTEMS
PROVIDE RACEWAYS, AND ALL MATERIAL INCLUDING PULLING CABLE IN EACH RACEWAY AS REQUIRED FOR THE TELEPHONE SYSTEM PER THE TELEPHONE REQUIREMENTS. ALL CAT 6 CABLES SHALL BE TESTED & MEET CURRENT BICSI STANDARDS, A TEST REPORT SIGNED BY A RCCD SHALL BE PROVIDED WITH THE DOCUMENTATION.

F. GROUNDING & BONDING
FURNISH AND INSTALL COMPLETE BONDING AND GROUNDING SYSTEM AS REQUIRED BY CODES. CONTINUITY OF GROUNDING SHALL BE MAINTAINED MECHANICALLY AND ELECTRICALLY THROUGHOUT THE SYSTEM. A GREEN GROUNDING CODE SIZED CONDUCTOR SHALL BE CARRIED IN ALL CONDUITS.

G. INSTALLATION
1. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT. TOWARD THIS END FURNISH ALL LABOR AND TOOLS NECESSARY AND FURNISH AND INSTALL ALL APPARATUS, MATERIALS AND EQUIPMENT IN A FASHION COMPLYING WITH ALL APPLICABLE CODES, INCLUDING ITEMS REQUIRED BUT NOT NORMALLY SHOWN, SUCH AS LAMPS, COUPLINGS, HANGERS, BRACKETS, CLAMPS, BOXES, CONNECTORS AND HARDWARE. REFER ALSO TO WRITTEN SPECIFICATIONS FOR GENERAL, MECHANICAL AND ELECTRICAL SECTIONS.
2. PROCURE ALL PERMITS FROM LEGALLY CONSTITUTED AUTHORITIES, ARRANGE FOR ALL INSPECTIONS AND PAY ALL COSTS FOR FEES AND TESTS IN CONNECTION THEREWITH. COMPLY WITH CODES: NOTHING IN THESE PLANS AUTHORIZES DEVIATION FROM APPLICABLE CODES.
3. DETERMINE EXACT ROUTING OF CONCEALED FEEDERS AND BRANCH HOMERUNS IN COOPERATION WITH OTHER TRADES TO SIMPLIFY INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF ARCHITECT FOR VISUAL AND STRUCTURAL REASONS.
4. PROVIDE A CODE APPROVED DISCONNECT SWITCH OR BREAKER WITHIN SIGHT OF EVERY MOTOR AND FEED MOTORS NOT EQUIPPED WITH "BUILT IN" PROTECTION THROUGH A MAGNETIC OR MANUAL STARTER WITH OVERLOAD HEATERS SIZED TO COMPLY WITH MOTOR MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES.
5. FOR CONNECTIONS TO EXHAUST FANS, PUMPS, COMPRESSORS, SPACE HEATERS, WATER HEATERS, AQUASTATS, SOLENOID VALVES AND OTHER MECHANICAL EQUIPMENT AND FOR CONDUITS AND WIRE REQUIRED BUT NOT NECESSARILY SHOWN ON THESE DRAWINGS REFER TO MECHANICAL PLANS AND DETERMINE EXACT LOCATIONS UNDER DIRECTION OF HEATING AND VENTILATING CONTRACTOR.
6. DO NOT RUN ANY CONDUIT IN SLAB IF ITS OUTSIDE DIAMETER EXCEEDS 1/3 THE THICKNESS OF THE SLAB. LOCATE CONDUITS WITHIN THE MIDDLE OF THE SLAB. WHERE CONDUITS ARE GROUPED IN PARALLEL RUNS, SPACE THEM 3" OR MORE APART. WHERE CONDUITS CROSS EACH OTHER, THICKEN SLAB PROPORTIONATELY OVER A HORIZONTAL AREA EQUAL TO TEN TIMES THE DIAMETER OF THE LARGEST CONDUIT. REFER ALSO TO DETAILS SHOWN.
7. FOR CIRCUITS FED THROUGH FLUORESCENT FIXTURE CHANNELS AND FEEDS TO RECESSED INCANDESCENT FIXTURES USE INSULATED WIRE OF 105 DEG. CELSIUS RATING.
8. SIZE OUTLET BOXES IN CONFORMITY WITH CODE FOR NUMBER AND GAUGE OF CONDUCTORS THEREIN, EXCEPT WHERE NOTED TO BE LARGER. MINIMUM BOX SIZE SHALL BE 4" SQUARE BY 1-1/2" DEEP.
9. EXAMINE PLANS TO DISCERN CEILINGS WITH A FIRE RATING OF ONE HOUR OR MORE, PROVIDE A ONE HOUR FIRE-RATED ENCLOSURE OVER EACH LIGHT FIXTURE RECESSED THEREIN.
10. ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. EXPOSED CONDUIT SHALL BE IN STRAIGHT LINES PARALLEL WITH, OR AT RIGHT ANGLES TO, COLUMN LINES OR BEAMS AND SEPARATED BY AT LEAST THREE (3) INCHES FROM WATER LINES WHENEVER THEY RUN LONG SIDE OR ACROSS SUCH LINES. CONDUIT SHALL NOT BE RUN BELOW CABLE TRAYS OR LIGHT FIXTURES WITHOUT SPECIFIC APPROVAL OF THE OWNERS REPRESENTATIVE. HANGERS SHALL BE FASTENED TO STEEL, CONCRETE OR MASONRY, BUT NOT TO PIPING. HANGERS AND SUPPORT SYSTEMS ARE AN INTEGRAL PART OF THE VISUAL ENVIRONMENT. ALL HANGERS AND SUPPORTS EXPOSED TO PUBLIC VIEW MUST BE SHOWN IN DETAIL ON PLANS SUBMITTED TO ENGINEER FOR APPROVAL OF APPEARANCE. ALL HANGERS MUST BE UNIFORMLY SPACED AND NEATLY INSTALLED WITH NO EXCESS MATERIAL BEYOND WHAT IS REQUIRED FOR THE SUPPORT FUNCTION. CONTRACTOR SHALL SELECT ACCESSORIES AND HARDWARE WITH A SMOOTH, NEAT FINISHED APPEARANCE AND PAINT ALL EXPOSED CONDUIT HANGERS TO MATCH THE ADJACENT FINISHES.
11. ALL RECEPTACLES SHALL BE MOUNTED BETWEEN 18" AND 48" PER ADA REQUIREMENTS UNLESS NOTED OTHERWISE, MEASURED FROM BOTTOM & TOP OF BOX RESPECTIVELY.
12. ALL DISTRIBUTION BOARDS, SWITCHBOARDS AND TRANSFORMERS THAT ARE FLOOR MOUNTED SHALL BE MOUNTED ON 2" THICK HOUSEKEEPING PAD. TRANSFORMER SHALL BE ON VIBRATION ISOLATION PADS AND CONNECTED WITH FLEXIBLE CONDUIT.
13. CONTRACTOR SHALL EXAMINE PLANS AND VERIFY IN FIELD LOCATIONS OF ALL FIRE RATED WALLS, CEILINGS AND FLOORS. CONTRACTOR SHALL SEAL ALL ELECTRICAL SYSTEM PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS AND FLOORS WITH U.L. LISTED MATERIAL APPROVED BY THE AUTHORITY HAVING JURISDICTION.
14. ALL SWITCHES SHALL BE MOUNTED 36" TO 48" MEASURED FROM BOTTOM & TOP OF BOX RESPECTIVELY.
15. PANEL CIRCUIT DIRECTORY SHALL COMPLY WITH CEC 408.4

H. FIRE ALARM SYSTEM (THE MAIN PANEL & PERIPHERALS MAY BE REUSED IF CSFM# IS STILL CURRENT)
1. CONTRACTOR SHALL PROVIDE AND INSTALL A FIRE ALARM SYSTEM FOR THE PROJECT AREA TO INCLUDE:
   A) SMOKE DETECTORS IN ALL REQUIRED AREAS
   B) HEAT DETECTORS IN ALL REQUIRED AREAS
   C) DUCT DETECTORS IN ALL REQUIRED SPACES
   D) STROBES/ALARMS IN ALL REQUIRED AREAS
   E) PULL STATIONS AT ALL LEGAL FIRE EXITS
   F) TAMPER AND FLOW SWITCHES
2. CONTRACTOR SHALL SUBMIT FOR THE OWNERS SIGNED APPROVAL, APPROVED FIRE DEPARTMENT FIRE ALARM DRAWINGS FOR THE PROJECT SPACE.
3. CONTRACTOR SHALL BE FCI.
4. ALL DEVICES AND EQUIPMENT SHALL BE CALIFORNIA STATE FIRE MARSHALL APPROVED AND CURRENTLY LISTED.
5. CONTRACTOR SHALL WARRANTY ALL DEVICES AND SYSTEMS FOR A PERIOD OF TWO YEARS.
6. CONTRACTOR SHALL PROVIDE 6 (SIX) HARD COPY SETS OF FIRE ALARM MANUALS FOR ALL SYSTEMS AND DEVICES IN ADDITION TO 6 (SIX) HARD COPY SETS OF A SYSTEM OPERATIONAL MANUAL TAILORED FOR THE PROJECT SPACE.
7. CONTRACTOR SHALL PROVIDE AN INDIVIDUALLY ADDRESSABLE TOTALLY SUPERVISED SYSTEM WITH BATTERY BACK-UP FOR 24 HOURS OF MONITORING INITIATING CIRCUITS PLUS 30 MINUTES OF ALARM WITH DUAL RATE BATTERY CHARGER.
8. CONTRACTOR SHALL PROVIDE A SATISFACTORY SYSTEM TEST IN THE PRESENCE OF THE OWNER, FIRE PREVENTION BUREAU AND CONSULTING ENGINEER.
9. ANNUNCIATOR PANEL LOCATED IN MAIN ADMIN OFFIC SHALL BE NONGRAPHIC WITH NAMEPLATE AND LED FOR EACH DEVICE ADDRESS, WITH AUDIBLE ALARM AND KEYED SILENCE SWITCH.
10. CONTRACTOR SHALL PROVIDE ALL CONNECTION TO POWER PANELS, CONDUIT AND WIRE AND CONNECTIONS REQUIRED TO PROVIDE AN OPERATIONAL FIRE ALARM SYSTEM.

COLOR CODE FOR CONDUCTORS

PROVIDE CONDUCTOR COLOR CODE AS FOLLOWS:
120/208V, 3ø, 4W: BLUE, BLACK, RED FOR PHASE CONDUCTORS AND WHITE FOR NEUTRAL, GREEN FOR GROUND.

277/480V, 3ø, 4W: ORANGE, BROWN, YELLOW FOR PHASE CONDUCTORS AND WHITE FOR NEUTRAL, GREEN FOR GROUND.

SYMBOLS

- C — RELAY CONTROLLED RECEPTACLE AT 18" AFF, PROVIDE WITHIN 6'-0" OF NON CONTROLLED RECEPTACLE. PROVIDE COVER PLATE WITH ENGRAVED "CONTROLLED".
- WP GFCI RECEPTACLE AT 18" AFF
- GFCI RECEPTACLE AT 42" AFF
- SINGLE RECEPTACLE, WALL MOUNTED @ +18"AFF, NEMA 5-20R U.O.N.
- DUPLEX RECEPTACLE, WALL MOUNTED @ +18"AFF, NEMA 5-20R U.O.N.
- I.G. — ISOLATED (ORANGE) GROUND DUPLEX RECEPTACLE, WALL MTD.@18"AFF, NEMA 5-20R U.O.N.
- DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, WALL MOUNTED @ +18"AFF
- DUPLEX RECEPTACLE, WALL MOUNTED @ +18" NEMA 5-20R U.O.N. TOP RECEPTACLE SWITCHED
- DUPLEX RECEPTACLE, FLOOR MOUNTED, NEMA 5-20R
- CEILING MOUNTED DUPLEX RECEPTACLE, 5-20R
- 2/2 — (2)DATA OUTLETS & (2)PHONE OUTLETS, 2 GANG 4SD BOX WITH DEVICES AND 4 CAT 6 CABLES PER NOTES & SPECIFICATION. PROVIDE 1-1/4"C MINIMUM TO CABLE TRAY OR IDF.
- (2)DATA OUTLETS, 2 GANG FLOOR BOX WITH DEVICES AND 2 CAT 6 CABLES PER NOTES & SPECIFICATION. PROVIDE 1-1/4"C MINIMUM TO CABLE TRAY OR IDF.
- TELECOM OUTLETS, 2 GANG FLOOR BOX WITH SINGLE GANG P-RING. 1"C. MINIMUM TO NEAREST CABLE TRAY OR IDF. PROVIDE WITH BUSHING AND 2 CAT 6 CABLES PER NOTES & SPECIFICATION.
- (2)DATA OUTLETS & (2)PHONE OUTLETS, 2 GANG FLOOR BOX WITH DEVICES AND 4 CAT 6 CABLES PER NOTES & SPECIFICATION. PROVIDE 1-1/4"C MINIMUM TO CABLE TRAY OR IDF.
- SPECIAL OUTLET, TYPE AS REQUIRED BY EQUIPMENT.
- J — JUNCTION BOX (CEILING MTD.) SIZE PER TABLE AND NEC ARTICLE 370
- J — JUNCTION BOX (WALL MTD.) SIZE PER TABLE AND NEC ARTICLE 370
- T — THERMOSTAT - 36" TO 48" AFF, BOTTOM & TOP OF BOX RESPECTIVELY
- BRANCH CIRCUIT PANELBOARD - 120/208VAC, 3ø, 4W.
- BRANCH CIRCUIT PANELBOARD - 480/277V, 3ø, 4W
- 4'X8'X3/4" TELEPHONE BACKBOARD, MARINE PLYWOOD AND PAINTED WITH FIRE RESISTANT PAINT, PER OWNERS REPRESENTATIVE.
- CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS,
- CONDUIT RUN CONCEALED BELOW FLOOR OR UNDERGROUND
- —E— EMERGENCY CIRCUIT
- FLEXIBLE CONDUIT (WITH GROUND CONDUCTOR, PROVIDE LIQUID TIGHT CONDUIT IN ALL EXPOSED AREAS)
- CONDUIT STUB UP, CAP AND IDENTIFY
- CONDUIT TURNS UP
- CONDUIT TURNS DOWN
- CONDUIT FITTING SEALED WITH APPROVED COMPOUND FOR ENVIRONMENT SEPARATION.
- #10 — HASH MARKS INDICATE QUANTITY OF #12 CONDUCTORS. NO HASH MARKS INDICATE (2)#12AWG. (PROVIDE GROUND CONDUCTOR IN ALL CONDUITS.) WHERE NO NUMBER IS INDICATED, THE CONDUCTORS ARE #12AWG(MIN.) CONDUIT SIZE IS AS REQUIRED BY ELECTRICAL CODE. (3/4" CONDUIT MINIMUM).
- 2LA 1-3-5, 7 — INDICATES A HOMERUN TO PNL 2LA, CKTS 1-3-5 WITH SHARED NEUTRAL & CKT 7 WITH DEDICATED NEUTRAL.
- 3/4"C-2#12 & 1#12 GND
- 3/4"C-3#12 & 1#12 GND
- 3/4"C-4#12 & 1#12 GND
- 3/4"C-5#12 & 1#12 GND
- #10 — 3/4"C-2#10 & 1#10 GND
- #10 — 3/4"C-3#10 & 1#10 GND
- #10 — 3/4"C-4#10 & 1#10 GND
- #10 — 3/4"C-5#10 & 1#10 GND
- (for the above:) 1" CONDUIT MINIMUM IF UNDERGROUND (CONTRACTOR TO PROVIDE DEDICATED NEUTRALS FOR CIRCUITS WHICH DO NOT HAVE COMMON CIRCUIT HANDLE TIES ON BREAKERS FEEDING THE CIRCUITS)
- 1 — SEE KEY NOTE #1 AS INDICATED ON DRAWING
- $P — SWITCH WITH PILOT LIGHT @ 42"AFF
- $3ab — 3-WAY SWITCH, a & b INDICATES LIGHT FIXTURE TO BE SWITCHED (EACH A 3-WAY) MOUNTED @ 42" AFF
- $ — SWITCH MOUNTED @ +42" AFF
- $M — MOTOR RATED SWITCH
- $a, b, c, d — CIRCUIT SWITCH LEGS; WALL SWITCHES
- 60AS 35AF 3P — DISCONNECT SWITCH, 60AMP SWITCH, 35 AMP FUSE, 3 POLE W/ OVERCURRENT PROTECTION U.O.N.
- M — 100A UTILITY METER (OR AS NOTED)
- 3P 100AS 60AF — FUSED DISCONNECT SWITCH 100AMP SWITCH RATING WITH 60 AMP FUSES, 3 POLE
- 200AF 150AT 3P — MOLDED CASE CIRCUIT BREAKER 200 AMP FRAME, 150 AMP TRIP RATING, 3 POLE
- CAM — CCTV-VERIFY MOUNTING LOCATION AND REQUIREMENTS WITH CLIENT/OWNER.

JUNCTION BOX FILL

JUNCTION BOX DIMENSION, INCHES TRADE SIZE OR TYPE	MIN. CU. IN. CAP.	MAXIMUM NUMBER OF CONDUCTORS NO. 14	NO. 12	NO. 10	NO. 8	NO. 6
4 x1-1/4 ROUND OR OCTAGONAL	12.5	6	5	5	4	2
4 x1-1/2 ROUND OR OCTAGONAL	15.5	7	6	6	5	3
4 x2-1/8 ROUND OR OCTAGONAL	21.5	10	9	8	7	4
4 x1-1/4 SQUARE	18.0	9	8	7	6	3
4 x1-1/2 SQUARE	21.0	10	9	8	7	4
4 x2-1/8 SQUARE	30.3	15	13	12	10	6
4-11/16 x1-1/4 SQUARE	25.5	12	11	10	8	5
4-11/16 x1-1/2 SQUARE	29.5	14	13	11	9	5
4-11/16 x2-1/8 SQUARE	42.0	21	18	16	14	8
3 x2 x1-1/2 DEVICE	7.5	3	3	3	2	1
3 x2 x2 DEVICE	10.0	5	4	4	3	2
3 x2 x2-1/4 DEVICE	10.5	5	4	4	3	2
3 x2 x2-1/2 DEVICE	12.5	6	5	5	4	2
3 x2 x2-3/4 DEVICE	14.0	7	6	5	4	2
3 x2 x3-1/2 DEVICE	18.0	9	8	7	6	3
4 x2-1/8 x1-1/2 DEVICE	10.3	5	4	4	3	2
4 x2-1/8 x1-7/8 DEVICE	13.0	6	5	5	4	2
4 x2-1/8 x2-1/8 DEVICE	14.5	7	6	5	4	2
3-3/4 x2 x2-1/2 MASONRY BOX / GANG	14.0	7	6	5	4	2
3-3/4 x2 x3-1/2 MASONRY BOX / GANG	21.0	10	9	8	7	4
FS - MINIMUM INTERNAL DEPTH 1-3/4 SINGLE COVER / GANG	13.5	6	6	5	4	2
FD - MINIMUM INTERNAL DEPTH 2-3/8 SINGLE COVER / GANG	18.0	9	8	7	6	3
FS - MINIMUM INTERNAL DEPTH 1-3/4 MULTIPLE COVER / GANG	18.0	9	8	7	6	3
FD - MINIMUM INTERNAL DEPTH 2-3/8 MULTIPLE COVER / GANG	24.0	12	10	9	8	4

LIST OF DRAWINGS

SHEET	DESCRIPTION	SHEET	DESCRIPTION
E1.00	GENERAL NOTES, ABBREVIATIONS, SYMBOLS & DRAWING LIST	E3.01	LIGHTING PLAN
E1.01	TITLE 24 PAGE 1	E4.01	POWER & COM PLAN
E1.02	TITLE 24 PAGE 2	E4.20	ROOF ELECTRICAL PLAN - BUILDING C
E1.30	LIGHTING DEMOLITION PLAN BUILDING C	E5.00	FIRE ALARM DETAILS
E1.40	POWER & LOW VOLTAGE DEMOLITION PLAN BUILDING C	E5.01	FIRE ALARM SYSTEM - EQUIPMENT LIST & PARTIAL SITE
E2.00	ELECTRICAL SINGLE LINE DIAGRAM	E5.02	FIRE ALARM SYSTEM - BUILDING C EXISTING CONDITION
E2.01	EXISTING ELECTRICAL PANEL SCHEDULES	E5.05	FIRE ALARM SYSTEM - BUILDING C NEW WORK
E3.00.1	LIGHTING FIXTURE SCHEDULE	E6.00	ELECTRICAL DETAILS
E3.00.2	nLIGHT ROOM LAYOUTS		
E3.00.3	nLIGHT CUT SHEETS		

SCOPE OF WORK

PROVIDE REMODELED ELECTRICAL SYSTEMS FOR POWER, LIGHTING AND LOW VOLTAGE FOR THE M&O DEPARTMENT.

SITE MAP

PROJECT AREA

ABBREVIATIONS

A	AMPERES	MTD	MOUNTED
AF	AMP FRAME/AMP FUSE	MTB	MAIN TELEPHONE BACKBOARD
AFC	AVAILABLE FAULT CURRENT	MTG	MOUNTING
AFF	ABOVE FINISHED FLOOR	MV	MERCURY VAPOR
ARCH	ARCHITECT	MH	METAL HALIDE
AS	AMP SWITCH	MFG	MANUFACTURER
AT	AMP TRIP	NEC	NATIONAL ELECTRICAL CODE
AWG	AMERICAN WIRE GAGE	(N)	NEW
BKBD	BACKBOARD	NIC	NOT IN CONTRACT
C	CONDUIT	NL	NIGHT LIGHT
CB	CIRCUIT BREAKER	N.O.	NORMALLY OPEN
CONT.	CONTINUATION	N.C.	NORMALLY CLOSED
CKT	CIRCUIT	P	POWER OR POLE
CLG	CEILING	PBO	PROVIDED BY OTHERS
CO	CONDUIT ONLY	PNL	PANEL
CTV	CABLE TELEVISION	(R)	REMOVED
(CU)	COPPER	RGS	RIGID GALVANIZED STEEL CONDUIT
CW	COLD WATER PIPE	RM	ROOM
DIS	DISCONNECT	SN	SYSTEM NEUTRAL
DS	DISCONNECT SWITCH	TC	TIME CLOCK
DWG	DRAWING	TTB	TELEPHONE TERMINAL BOARD
EC	ELECTRICAL CONTRACTOR	TTC	TELEPHONE TERMINAL CABINET
EM	EMERGENCY LIGHT/FEEDER	TR	TRANSFORMER
EOR	ENGINEER OF RECORD	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
(F)	FRONT	TYP	TYPICAL
FS	SHALLOW FLOOR BOX	U.G.	UNDERGROUND
GC	GENERAL CONTRACTOR	UON	UNLESS OTHERWISE NOTED
GFI	GROUND FAULT INTERRUPTER	UNSW	UNSWITCHED
GND	GROUND	VA	VOLT AMPS
HP	HORSEPOWER	V	VOLTS/VOLTAGE
I.G.	ISOLATED GROUND	W	WATTS/WATTAGE
JB	JUNCTION BOX	WP	WEATHERPROOF
KVA	KILO VOLT AMPS=1000VA	W/	WITH
LC	LIGHTING CONTACTOR	(X)	EXISTING
LCL	LONG CONTINUOUS LOAD		
LV	LOW VOLTAGE		

DERATING TABLE

NEC #310-8 ADJUSTMENT FACTORS

(a) MORE THAN THREE CURRENT-CARRYING CONDUCTORS IN A RACEWAY OR CABLE. WHERE THE NUMBER OF CURRENT-CARRYING CONDUCTORS IN A RACEWAY OR CABLE EXCEEDS THREE, THE ALLOWABLE AMPACITIES SHALL BE REDUCED AS SHOWN IN THE FOLLOWING TABLE:

NUMBER OF CURRENT-CARRYING CONDUCTORS	PERCENT OF VALUES IN TABLES AS ADJUSTED FOR AMBIENT TEMPERATURE IF NECESSARY
4 THROUGH 6	80
7 THROUGH 9	70
10 THROUGH 20	50
21 THROUGH 30	45
31 THROUGH 40	40
41 AND ABOVE	35

WHERE SINGLE CONDUCTORS OR MULTICONDUCTOR CABLES ARE STACKED OR BUNDLED LONGER THAN 24 INCHES (610 mm) WITHOUT MAINTAINING SPACING AND ARE NOT INSTALLED IN RACEWAYS, THE ALLOWABLE AMPACITY OF EACH CONDUCTOR SHALL BE REDUCED AS SHOWN IN THE ABOVE TABLE.

EXCEPTION NO. 1: WHERE CONDUCTORS OF DIFFERENT SYSTEMS, AS PROVIDED IN SECTION 300-3, ARE INSTALLED IN A COMMON RACEWAY OR CABLE, THE DERATING FACTORS SHOWN ABOVE SHALL APPLY TO THE NUMBER OF POWER AND LIGHTING (ARTICLES 210, 215, 220, AND 230) CONDUCTORS ONLY.

EXCEPTION NO. 2: FOR CONDUCTORS INSTALLED IN CABLE TRAYS, THE PROVISIONS OF SECTION 318-11 SHALL APPLY.

EXCEPTION NO. 3: DERATING FACTORS SHALL NOT APPLY TO CONDUCTORS IN NIPPLES HAVING A LENGTH NOT EXCEEDING 24 INCHES (610mm).

EXCEPTION NO. 4: DERATING FACTORS SHALL NOT APPLY TO UNDERGROUND CONDUCTORS ENTERING OR LEAVING AN OUTDOOR TRENCH IF THOSE CONDUCTORS HAVE PHYSICAL PROTECTION IN THE FORM OF RIGID METAL CONDUIT, INTERMEDIATE METAL CONDUIT, OR RIGID NONMETALLIC CONDUIT HAVING A LENGTH NOT EXCEEDING 10 FEET (3.05m) ABOVE GRADE AND THE NUMBER OF CONDUCTORS DOES NOT EXCEED FOUR.

EXCEPTION NO. 5: FOR OTHER LOADING CONDITIONS, ADJUSTMENT FACTORS AND AMPACITIES SHALL BE PERMITTED TO BE CALCULATED UNDER SECTION 310-15(b).

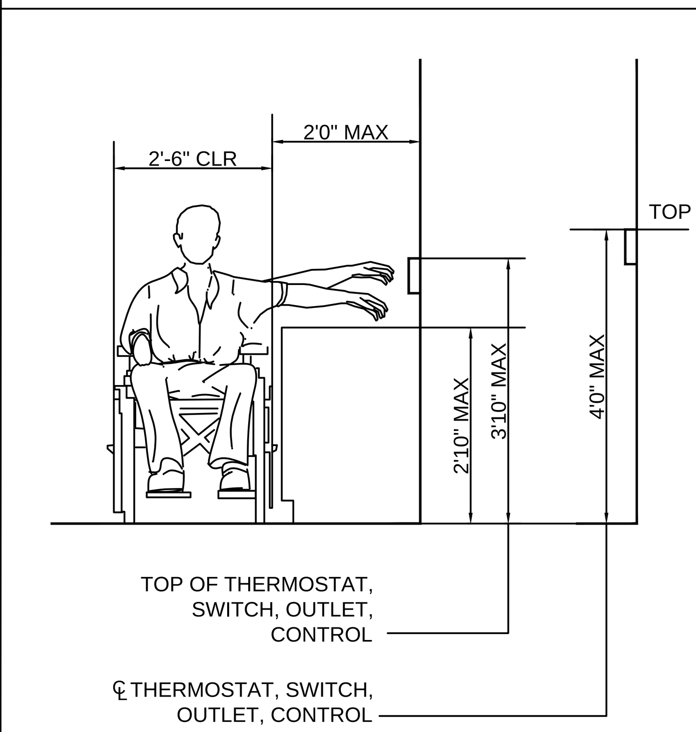
(FNC): SEE APPENDIX B, TABLE B-310-11 FOR ADJUSTMENT FACTORS FOR MORE THAN THREE CURRENT-CARRYING CONDUCTORS IN A RACEWAY OR CABLE WITH LOAD DIVERSITY.

(b) MORE THAN ONE CONDUIT, TUBE, OR RACEWAY. SPACING BETWEEN CONDUITS, TUBING, OR RACEWAYS SHALL BE MAINTAINED.

GENERAL STANDARDS

1. 2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1
2. 2016 CALIFORNIA BUILDING CODE (CBC)
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 2
(2014 INTERNATIONAL BUILDING CODE (IBC) W/CALIFORNIA AMENDMENTS)
3. 2016 CALIFORNIA ELECTRICAL CODE (CEC)
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3
(2014 NATIONAL ELECTRICAL CODE (NEC) W/CALIFORNIA AMENDMENTS)
4. 2016 CALIFORNIA ENERGY CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 6
5. 2016 CALIFORNIA FIRE CODE (CFC)
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9
(2015 INTERNATIONAL FIRE CODE (IFC) W/CALIFORNIA AMENDMENTS)
6. 2016 CALIFORNIA REFERENCED STANDARDS CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 12
7. AMERICANS WITH DISABILITIES ACT (ADA)
TITLE II - ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAG)
1990 STATE FIRE MARSHAL REGULATIONS AND AMENDMENTS TO-DATE
8. CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, CALIFORNIA STATE ACCESSIBILITY STANDARDS
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19
9. 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE
(CAL GREEN), PART II, TITLE 24 C.C.R.
10. 2016 CALIFORNIA MECHANICAL CODE (CMC)
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 4
(2012 UNIFORM MECHANICAL CODE (UMC) W/CALIFORNIA AMENDMENTS)
11. 2016 CALIFORNIA PLUMBING CODE (CPC)
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 5
(2012 UNIFORM PLUMBING CODE (UPC) W/CALIFORNIA AMENDMENTS)
12. 2013 TITLE 19 CALIFORNIA CODE OF REGULATIONS (CCR)
PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
13. 2016 NFPA 72 NATIONAL FIRE ALARM CODE

MOUNTING HEIGHT OVER OBSTRUCTION



THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS.

REVISIONS	DATE	BY
1		

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REGISTERED PROFESSIONAL ENGINEER KENNETH W. LUCCI No. E 8340 Exp. 09/30/2018 ELECTRICAL STATE OF CALIFORNIA

This project has been designed by me, or under my direct supervision.

ISSUED FOR CONSTRUCTION

VENTURA COUNTY
COMMUNITY
COLLEGE DISTRICT

VENTURA COLLEGE
4667 Telegraph Road
Ventura, CA 93003

M&O:
MAINTENANCE &
OPERATIONS ADMIN
RENOVATION

PROJECT DIRECTORY

SOILS ENGINEER / SEPTIC SYSTEM:
XXXX

CIVIL ENGINEER:
XXXX

STRUCTURAL ENGINEER:
XXXX

ELECTRICAL ENGINEER:
LUCCI & ASSOCIATES
KEN LUCCI
805/389.6520

MECHANICAL ENGINEER:
XXXX

LANDSCAPE ARCHITECT:
XXXX

WATER SYSTEM / FIRE PROTECTION SYSTEM:
XXXXt

GENERAL NOTES, SYMBOLS, ABBREVIATIONS AND DRAWING LIST
SHEET NAME

DATE 09-03-2017

SCALE AS SHOWN

PROJECT C16 - 006

SHEET NUMBER E1.00 OF 00 SHEETS

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L.A.I.# 16247 PAPER SIZE 42"x30"

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

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 3 of 3)
Project Name: VENTURA COLLEGE MAINTENANCE & OPERATIONS ADMIN RENOVATION	Date Prepared: 07-05-2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: KEN LUCCI	Documentation Author Signature:
Company: LUCCI & ASSOCIATES	Signature Date: 07-05-2017
Address: 3251 CORTE MALPASO, SUITE 511	CEA Certification Identification (if applicable):
City/State/Zip: CAMARILLO, CA., 93012	Phone: 805 389-6520

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: KEN LUCCI	Responsible Designer Signature:
Company: LUCCI & ASSOCIATES	Date Signed: 07-05-2017
Address: 3251 CORTE MALPASO, SUITE 511	License: E8340
City/State/Zip: CAMARILLO, CA., 93012	Phone: 805 389-6520

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

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 2 of 3)
Project Name: VENTURA COLLEGE MAINTENANCE & OPERATIONS ADMIN RENOVATION	Date Prepared: 07-05-2017

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

Lighting Control Schedule			Standards Complying With [1] (✓ all that apply, or leave empty if Exempted)							PAF Credit Calculation [2]			✓ if Acceptance Test Required	Field Inspector	
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
Location in Building	Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc…)	# of Units	§130.1(a)	§130.0(b)	§130.1(c)	§130.1(d)	§130.1(e)	§140.6(a)2	§140.6(d)	Watts of Controlled Lighting	PAF	Control Credit (11 x 12)		Pass	Fail
OFFICES			♦	♦	♦	♦						0	☐	○	○
CORRIDORS			♦	♦	♦	♦						0	☐	○	○
BREAK ROOM			♦	♦	♦	♦						0	☐	○	○
												0	☐	○	○
												0	☐	○	○
												0	☐	○	○
												0	☐	○	○
Control Credit PAGE TOTAL (Sum of Column 13):												0			
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):															
												Enter Control Credit total into NRCC-LTI-01-E; Page 1.			

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.

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

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 1 of 3)
Project Name: VENTURA COLLEGE MAINTENANCE & OPERATIONS ADMIN RENOVATION	Date Prepared: 07-05-2017

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

YES	NO	Control Requirements
⦿	○	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
⦿	○	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
○	⦿	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
○	⦿	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
⦿	○	All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
⦿	○	All luminaires shall be functionally controlled with manual ON and OFF lighting controls in accordance with Section 130.1(a).
⦿	○	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.
⦿	○	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
⦿	○	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).
⦿	○	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans.
⦿	○	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
⦿	○	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4.(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.

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 6 of 6)
Project Name: VENTURA COLLEGE MAINTENANCE & OPERATIONS ADMIN RENOVATION	Date Prepared: 07-05-2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: KEN LUCCI	Documentation Author Signature:
Company: LUCCI & ASSOCIATES	Signature Date: 07-05-2017
Address: 3251 CORTE MALPASO, SUITE 511	CEA Certification Identification (if applicable):
City/State/Zip: CAMARILLO, CA., 93012	Phone: 805 389-6520

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: KEN LUCCI	Responsible Designer Signature:
Company: LUCCI & ASSOCIATES	Date Signed: 07-05-2017
Address: 3251 CORTE MALPASO, SUITE 511	License: E8340
City/State/Zip: CAMARILLO, CA., 93012	Phone: 805 389-6520

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 5 of 6)
Project Name: VENTURA COLLEGE MAINTENANCE & OPERATIONS ADMIN RENOVATION	Date Prepared: 07-05-2017

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

H. Indoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule			Installed Watts					Location	Field Inspector [1]	
01	02	03	04		05	06		07	08	
Name or Item Tag	Complete Luminaire Description (i.e., 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined: CEC Default from NLMS	How wattage was determined: According to §130.0(c)	Number Luminaires	Total Installed Watts in this area (w03 x w05)		Primary Function area in which these luminaires are installed	Pass	Fail
F2	2 x 4 LED	39	☐	☐	37	1443			○	○
DS	SHOWER DOWN LIGHT	22	☐	☐	2	44			○	○
D1	DOWN LIGHT	15	☐	☐	1	15			○	○
F1	1 X 4 LED	22	☐	☐	1	22			○	○
P1	PENDANT LED	36	☐	☐	1	36			○	○
WW	WALL WASH LED	12	☐	☐	5	60			○	○
			☐	☐		0			○	○
			☐	☐		0			○	○
			☐	☐		0			○	○
INSTALLED WATTS PAGE TOTAL:							1620	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

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

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 4 of 6)
Project Name: VENTURA COLLEGE MAINTENANCE & OPERATIONS ADMIN RENOVATION	Date Prepared: 07-05-2017

G. Installed Portable Luminaires in Offices -- Exception to Section 140.6(a)

- This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance document.
- This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office
- Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.

Office Portable Luminaire Schedule	Office Installed Portable Luminaire W/ft²							Office Location	Field Inspector
01	02	03	04	05	06	07	08	09	10
Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted direct/indirect)	Watts per Luminaire	Number of Luminaires	Installed portable luminaire watts in this office (G02 x G03)	Square feet of this office	Watts per square foot (G04 / G05)	If G06 ≤ 0.3, enter zero; If G06 > 0.3, (G06-0.3)	(G05 x G07)	Identify Office area in which these portable luminaires are installed	Pass / Fail
			0				0		○ ○
			0				0		○ ○
			0				0		○ ○
			0				0		○ ○
			0				0		○ ○
Total installed portable luminaire watts that are greater than 0.3 W/ft² per office:								Enter sum total of all pages into NRCC-LTI-01-E; Page 2	

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

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 3 of 6)
Project Name: VENTURA COLLEGE MAINTENANCE & OPERATIONS ADMIN RENOVATION	Date Prepared: 07-05-2017

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

YES	NO	FORM/TITLE	
⦿	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐ Field Inspector
⦿	○	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐ Field Inspector
○	⦿	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐ Field Inspector
○	⦿	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	

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

F. Indoor Lighting Schedule and Field Inspection Energy Checklist

- ☐ The actual indoor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting systems.
- ☐ When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.
- ☐ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines
- ☐ Also include track lighting in schedule, and submit the track lighting compliance document (NRCC-LTI-05-E) when line-voltage track lighting is installed.

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

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 2 of 6)
Project Name: VENTURA COLLEGE MAINTENANCE & OPERATIONS ADMIN RENOVATION	Date Prepared: 07-05-2017

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

	Indoor Lighting Power for Conditioned Spaces		Watts	Indoor Lighting Power for Unconditioned Spaces		Watts
01	**Installed** Lighting NRCC-LTI-01-E, Table H, page 5	+	1620	**Installed** Lighting NRCC-LTI-01-E, Table H, page 5	+	
02	Portable Only for Offices NRCC-LTI-01-E, Table G, page 4	+				
03	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-		Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	
04	Adjusted **Installed** Lighting Power (row 1 plus row 2 minus row 3)	=	1620	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 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		4010	**Allowed** Lighting Power Unconditioned NRCC-LTI-03-E, page 1 Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		

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

YES	NO	Form/Title	
⦿	○	NRCI-LTI-01-E - Must be submitted for all buildings	
⦿	○	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector
○	⦿	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	☐ Field Inspector
○	⦿	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐ Field Inspector
○	⦿	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐ Field Inspector
○	⦿	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐ Field Inspector

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

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 1 of 6)
Project Name: VENTURA COLLEGE MAINTENANCE & OPERATIONS ADMIN RENOVATION	Date Prepared: 07-05-2017

A. General Information

Climate Zone: 6	Conditioned Floor Area: 4750				
	Unconditioned Floor Area:				
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: 4667 Telegraph Road Ventura, CA 93003					

B. Lighting Compliance Documents (select yes for each document included)
For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	COMP. DOC.	TITLE
○	⦿	NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
○	⦿	NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
○	⦿	NRCC-LTI-03-E	Indoor Lighting Power Allowance
○	⦿	NRCC-LTI-04-E	Tailored Method Worksheets
⦿	⦿	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets
⦿	⦿	NRCC-LTI-06-E	Indoor Lighting Existing Conditions

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS.

REVISIONS	DATE	BY
1		
△		
△		
△		
△		
△		

ROY E COLBERT
ARCHITECTURE
PLANNING
DESIGN

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VENTURA, CA 93001

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CONSULTING ELECTRICAL ENGINEERS
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Web Site http://www.lucciand.com

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REGISTERED PROFESSIONAL ENGINEER
KENNETH W. LUCCI
No. E 8340
Exp. 09/30/2018
ELECTRICAL
STATE OF CALIFORNIA

This project has been designed by me, or under my direct supervision.

ISSUED FOR CONSTRUCTION

VENTURA COUNTY
COMMUNITY
COLLEGE DISTRICT

VENTURA COLLEGE
4667 Telegraph Road
Ventura, CA 93003

M&O:
MAINTENANCE &
OPERATIONS ADMIN
RENOVATION

PROJECT DIRECTORY

SOILS ENGINEER / SEPTIC SYSTEM:
XXXX

CIVIL ENGINEER:
XXXX

STRUCTURAL ENGINEER:
XXXX

ELECTRICAL ENGINEER:
LUCCI & ASSOCIATES
KEN LUCCI
805/389.6520

MECHANICAL ENGINEER:
XXXX

LANDSCAPE ARCHITECT:
XXXX

WATER SYSTEM / FIRE PROTECTION SYSTEM:
XXXXt

TITLE 24 INDOOR LIGHTING
PAGE 1

SHEET NAME

DATE 09-03-2017

SCALE AS SHOWN

PROJECT C16 - 006

SHEET NUMBER E1.01 OF SHEETS 00

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Drafter:Lee Keener Paper Size: 12.9
Drawing:G:\16\247\EL\Sheets\16247E102.dwg
Sep 03, 2017, 12:44pm
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XREF:G:\16\247\EL\Xrefs\16247TB.dwg

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 3 of 4)
Project Name: VENTURA COLLEGE MAINTENANCE & OPERATIONS ADMIN RENOVATION	Date Prepared: 07-05-2017

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☐ CONDITIONED spaces ☐ UNCONDITIONED spaces

C-3 AREA CATEGORY METHOD ADDITIONAL LIGHTING WATTAGE ALLOWANCE (from Table 140.6-C Footnotes)

01	02	03 [2]	04	05	06	07
Primary Function	Sq Ft or Linear ft [1]	Additional Watts Allowed	Wattage Allowance (02 x 03)	Description(s) and Quantity of Special Luminaire Types in each Primary Function Area	Total Design Watts [3]	ALLOWED WATTS Smaller of 04 or 06
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
TOTALS – Enter into TOTAL AREA CATEGORY METHOD ADDITIONAL ALLOWANCES – Section C-1						

1. Use linear feet only for additional allowance for white board or chalk board. All other additional Area Category allowances shall use watts per square foot.
2 . Additional watts are available only when allowed according to the footnotes on bottom of Table 140.6-C, which include: Specialized task work; Ornamental lighting; Precision commercial and industrial work; Per linear foot of white board or chalk board; Accent, display and feature lighting; and Videoconferencing studio lighting..
3. Luminaire classification and wattage shall be determined in accordance with §130.0(c) of the Standards.

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 2 of 4)
Project Name: VENTURA COLLEGE MAINTENANCE & OPERATIONS ADMIN RENOVATION	Date Prepared: 07-05-2017

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☑ CONDITIONED spaces ☐ UNCONDITIONED spaces

C -2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE
- Do not include portable lighting for offices. Portable lighting for offices shall be documented only in Section G of NRCC-LTI-01-E.
- Separately list lighting for each primary function area as defined in §100.1 of the Standards.

01		02		03		04
AREA CATEGORY (From §140.6 Table 140.6-C)		WATTS				ALLOWED
Location in Building	Primary Function Area per Table 140.6-C	PER ft²	X	AREA (ft²)	=	WATTS
OFFICE 1ST FLOOR	OFFICE	1.0		1776		1776
						0
BREAK ROOM	WAITING	0.8		540		432
						0
STORAGE / IT ROOM	STORAGE	0.6		420		252
						0
CORRIDORS 1ST FLOOR	CORRIDORS	0.6		944		566.4
						0
RECEPTION 1ST FLOOR	RECEPTION	0.95		320		304
						0
CONFERENCE 1ST FLOOR	CONFERENCE ROOM	1.2		310		372
						0
LOCKERS 1ST FLOOR	LOCKERS	0.7		440		308
						0
						0
						0
		TOTALS		4750		
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance document)						4010
						WATTS

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 4 of 4)
Project Name: VENTURA COLLEGE MAINTENANCE & OPERATIONS ADMIN RENOVATION	Date Prepared: 07-05-2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: KEN LUCCI	Documentation Author Signature:
Company: LUCCI & ASSOCIATES	Signature Date: 07-05-2017
Address: 3251 CORTE MALPASO, SUITE 511	CEA Certification Identification (if applicable):
City/State/Zip: CAMARILLO, CA., 93012	Phone: 805 389-6520

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: KEN LUCCI	Responsible Designer Signature:
Company : LUCCI & ASSOCIATES	Date Signed: 07-05-2017
Address: 3251 CORTE MALPASO, SUITE 511	License: E8340
City/State/Zip: CAMARILLO, CA., 93012	Phone: 805 389-6520

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 1 of 4)
Project Name: VENTURA COLLEGE MAINTENANCE & OPERATIONS ADMIN RENOVATION	Date Prepared: 07-05-2017

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☑ CONDITIONED spaces ☐ UNCONDITIONED spaces

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES
If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.
If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts

	(a)		(b)
01 Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)	0		
02 Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)			4010
03 Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E			
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1	0		4010

☐ Check here if building contains both conditioned and unconditioned areas.

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

01	02		03		04
TYPE OF BUILDING (From §140.6 Table 140.6-B)	WATTS PER ft²	X	COMPLETE BLDG. AREA	=	ALLOWED WATTS
					0
	Total Area:				
Total Watts. Enter Total Watts into section A, row 1 (Above on this page)					0

C -1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES	**Watts**
Total from section C-2.	
Total from section C-3.	
Total Watts. Enter Total Watts into section A, row 2 (Above on this page).	0
For Alterations Only – Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into section A, row 2 if using this option.	

REVISIONS	DATE	BY
1		

ROY E COLBERT

ARCHITECTURE
PLANNING
DESIGN

353 SAN JON ROAD
VENTURA, CA 93001

805 / 650 . 9590 PH
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rcolb@sbcglobal.net

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This project has been designed by me, or under my direct supervision.

ISSUED FOR CONSTRUCTION

VENTURA COUNTY
COMMUNITY
COLLEGE DISTRICT

VENTURA COLLEGE
4667 Telegraph Road
Ventura, CA 93003

M&O:
MAINTENANCE &
OPERATIONS ADMIN
RENOVATION

PROJECT DIRECTORY

SOILS ENGINEER / SEPTIC SYSTEM:
XXXX

CIVIL ENGINEER:
XXXX

STRUCTURAL ENGINEER:
XXXX

ELECTRICAL ENGINEER:
LUCCI & ASSOCIATES
KEN LUCCI
805/389.6520

MECHANICAL ENGINEER:
XXXX

LANDSCAPE ARCHITECT:
XXXX

WATER SYSTEM / FIRE PROTECTION SYSTEM:
XXXXt

TITLE 24 INDOOR LIGHTING
PAGE 2

SHEET NAME

DATE 09-03-2017

SCALE AS SHOWN

PROJECT C16 - 006

SHEET NUMBER E1.02 OF 00 SHEETS

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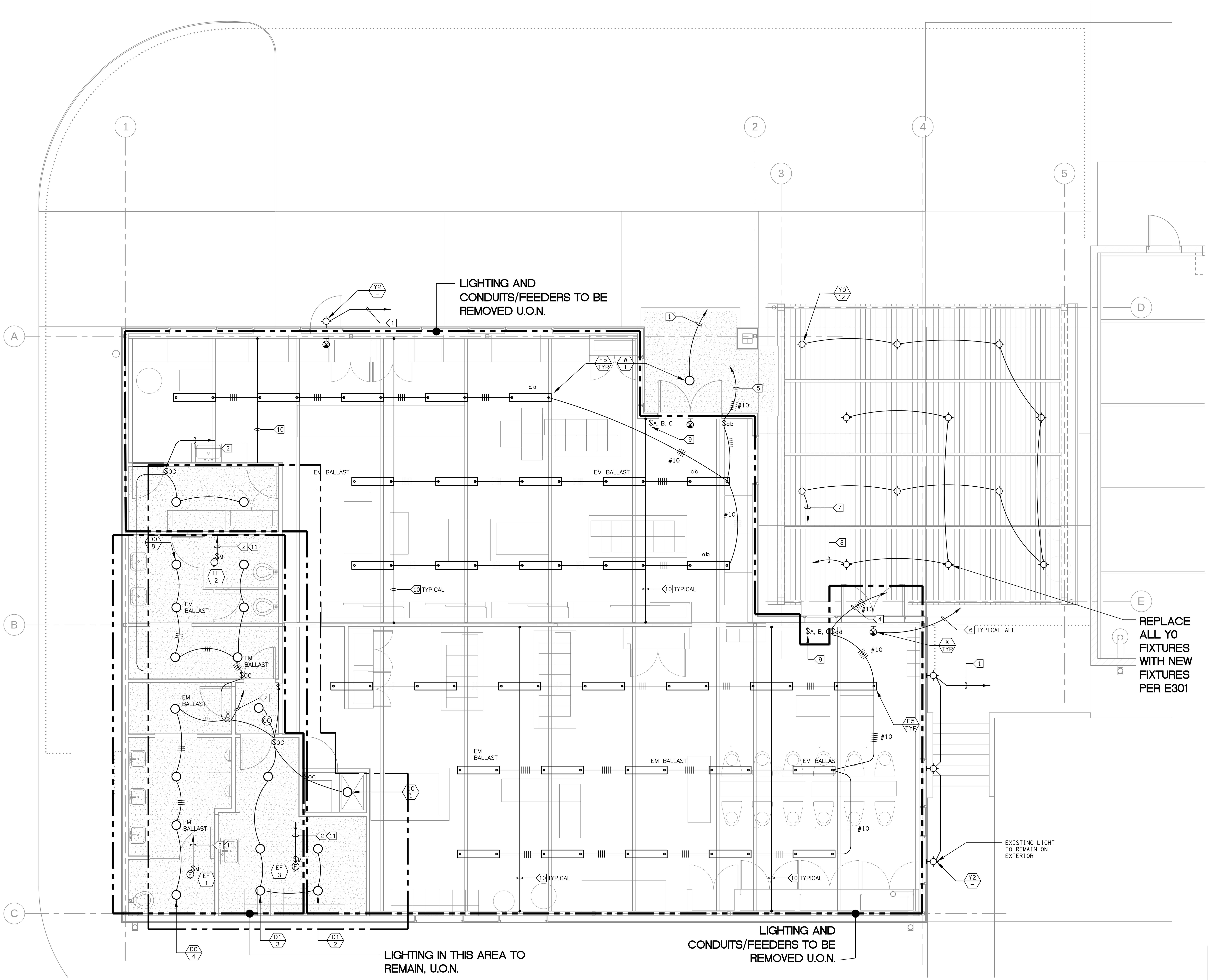

SHEET NOTES:

1. REMOVE ALL DEMO DEVICES, CABLING, CONDUIT, SUPPORTS, ETC TO LAST ACTIVE DEVICE & MAKE SAFE ALL CONNECTIONS.
2. RETURN TO OWNERS, ALL SALVAGEABLE ITEMS.

KEY NOTES:

- 1 C1-2 (VIA LIGHTING CONTROLLER CIRCUIT A)
- 2 C1-4.
- 3 NOT USED.
- 4 C1-6-8. (TO BE REMOVED).
- 5 C1-10-12. (TO BE REMOVED).
- 6 C1-14.
- 7 C1-2 (VIA LIGHTING CONTROLLER CIRCUIT B)
- 8 C1-2 (VIA LIGHTING CONTROLLER CIRCUIT C)
- 9 LIGHTING CONTROLLER FOR CIRCUITS A, B, C OF 1, 7, 8
- 10 SUPPORT WIRES BETWEEN FIXTURES.
- 11 WITH MOTION SENSOR.

LEGEND

$OC	SENSOR SWITCH WSD-PDT
OC	SENSOR SWITCH CMR9

REVISIONS	DATE	BY
1		

ROY E COLBERT

ARCHITECTURE
PLANNING
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REGISTERED PROFESSIONAL ENGINEER KENNETH W. LUCCI No. E 8340 Exp. 09/30/2018 ELECTRICAL STATE OF CALIFORNIA

This project has been designed by me, or under my direct supervision.

ISSUED FOR CONSTRUCTION

VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

VENTURA COLLEGE
4667 Telegraph Road
Ventura, CA 93003

M&O:
MAINTENANCE & OPERATIONS ADMIN RENOVATION

PROJECT DIRECTORY

SOILS ENGINEER / SEPTIC SYSTEM:
XXXX

CIVIL ENGINEER:
XXXX

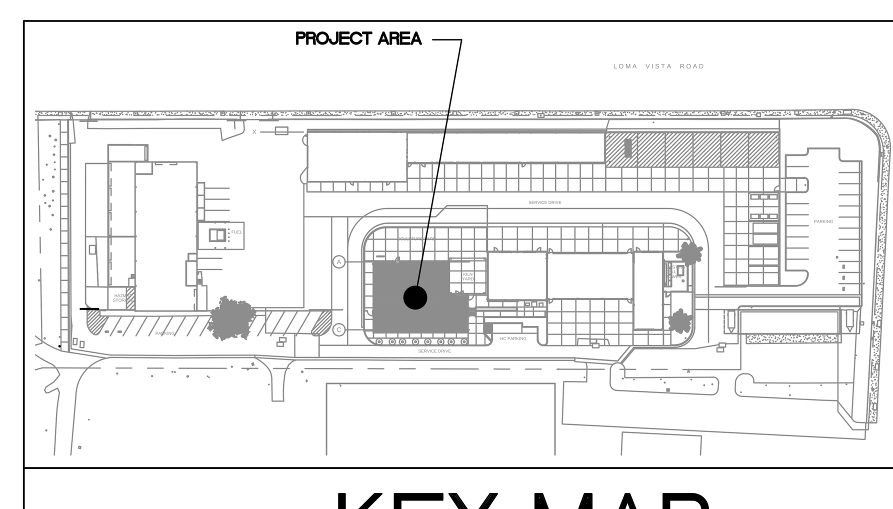
STRUCTURAL ENGINEER:
XXXX

ELECTRICAL ENGINEER:
LUCCI & ASSOCIATES
KEN LUCCI
805/389.6520

MECHANICAL ENGINEER:
XXXX

LANDSCAPE ARCHITECT:
XXXX

WATER SYSTEM / FIRE PROTECTION SYSTEM:
XXXXt



KEY MAP

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS.

LIGHTING DEMOLITION PLAN

SCALE: 1/4"=1'-0"   1 / E1.30

0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"

LIGHTING DEMOLITION PLAN
SHEET NAME

09-03-2017
DATE

AS SHOWN
SCALE

C16 - 006
PROJECT

E1.30 OF 00
SHEET NUMBER OF SHEETS

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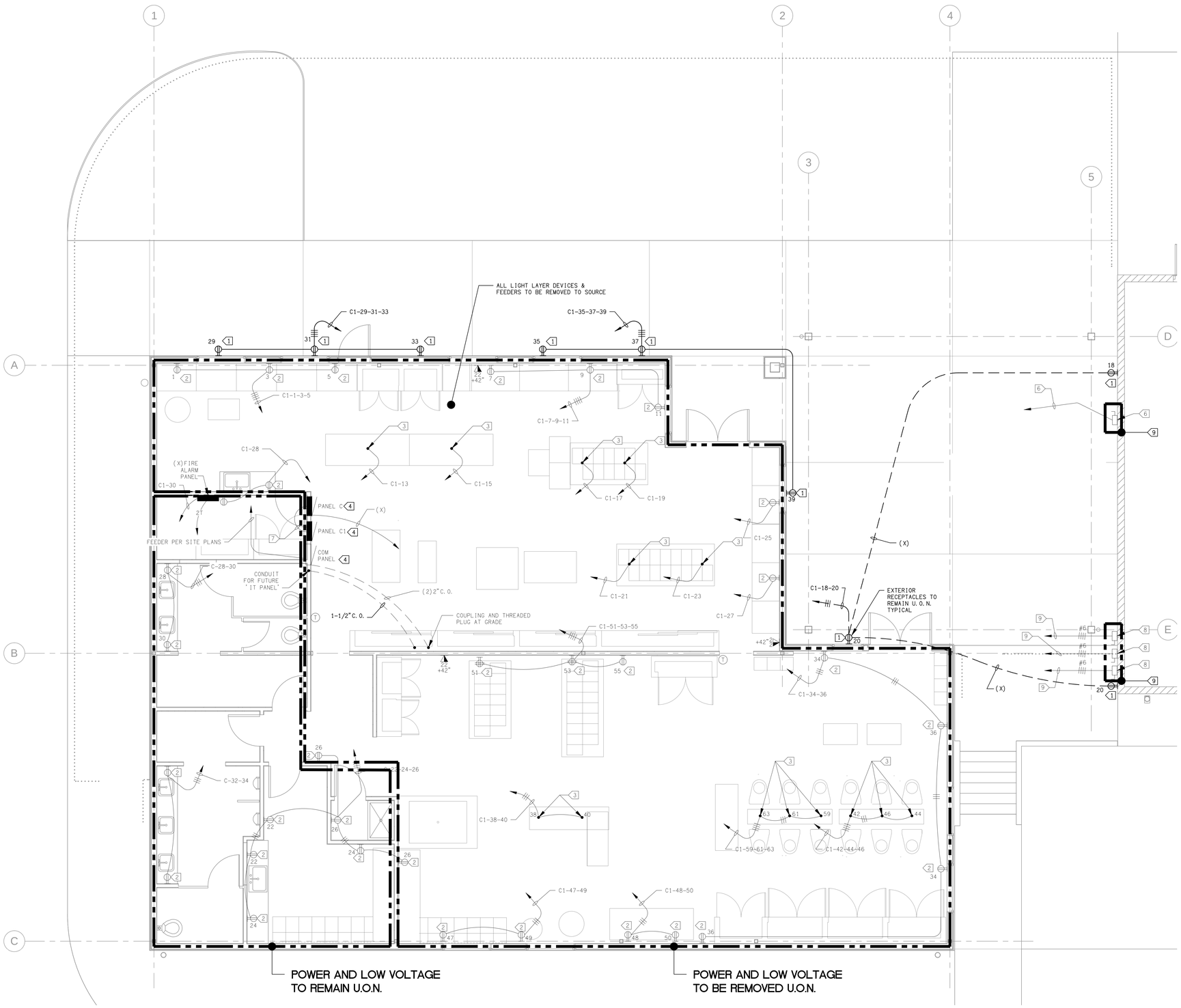

0 2' 4' 8' 12'

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

POWER & LOW VOLTAGE DEMOLITION PLAN

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

1 = E1.40

N

SHEET NOTES:

1. REMOVE ALL DEMO DEVICES, CABLING, CONDUIT, SUPPORTS, ETC TO LAST ACTIVE DEVICE & MAKE SAFE ALL CONNECTIONS.
2. RETURN TO OWNERS, ALL SALVAGEABLE ITEMS.

KEY NOTES:

1. WP GFCI RECEPTACLE.
2. GFCI RECEPTACLE.
3. PENDANT POWER DROP.
4. EXISTING TO REMAIN.
5. NOT USED.
6. NOT USED.
7. PER E-200.
8. 60A FUSED AT 60A NEMA 3R DISCONNECT 3 POLE, 240VAC.
9. REMOVE DISCONNECT & RETURN TO OWNERS & REMOVE CONDUCTORS TO SOURCE. PROVIDE CAP ON CONDUIT AT CONDUIT STUB UP WITH PULL (3/16") STRING & LABEL AT BOTH ENDS.

REVISIONS	DATE	BY
1		

ROY E COLBERT

ARCHITECTURE
PLANNING
DESIGN

353 SAN JON ROAD
VENTURA, CA 93001

805 / 650 . 9590 PH
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LUCCI & ASSOCIATES INC.
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Web Site http://www.lucciand.com

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REGISTERED PROFESSIONAL ENGINEER
KENNETH W. LUCCI
No. E 9840
Exp. 09/30/2018
ELECTRICAL
STATE OF CALIFORNIA

This project has been designed by me, or under my direct supervision.

ISSUED FOR CONSTRUCTION

VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

VENTURA COLLEGE
4667 Telegraph Road
Ventura, CA 93003

M&O:
MAINTENANCE & OPERATIONS ADMIN RENOVATION

PROJECT DIRECTORY

SOILS ENGINEER / SEPTIC SYSTEM:
XXXX

CIVIL ENGINEER:
XXXX

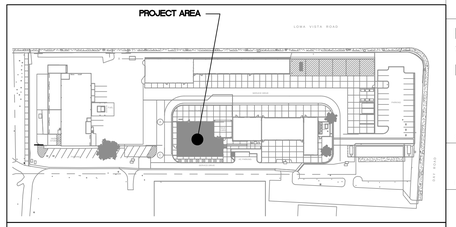
STRUCTURAL ENGINEER:
XXXX

ELECTRICAL ENGINEER:
LUCCI & ASSOCIATES
KEN LUCCI
805/389.6520

MECHANICAL ENGINEER:
XXXX

LANDSCAPE ARCHITECT:
XXXX

WATER SYSTEM / FIRE PROTECTION SYSTEM:
XXXXt



KEY MAP

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS.

SHEET NAME	POWER & LOW VOLTAGE DEMOLITION PLAN
DATE	09-03-2017
SCALE	AS SHOWN
PROJECT	C16 - 006
SHEET NUMBER	E1.40
OF SHEETS	00

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L.A.I.# 16247 PAPER SIZE 42"x30"

G:\16\247\EL\Sheets\16247E140.dwg Sep 03, 2017, 12:44pm Lee Keener

Drafter: Lee Keener G:\16\247\EL\Sheets\16247E140.dwg DATE: 03 SP 2017 TIME: 2:40 PM

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DRAFTER: Lee Keener   DRAWING FILENAME: 16247E200   PATHNAME: G:\16\247\E\Sheets   DATE: 3 September 2017   TIME: 12:45 pm

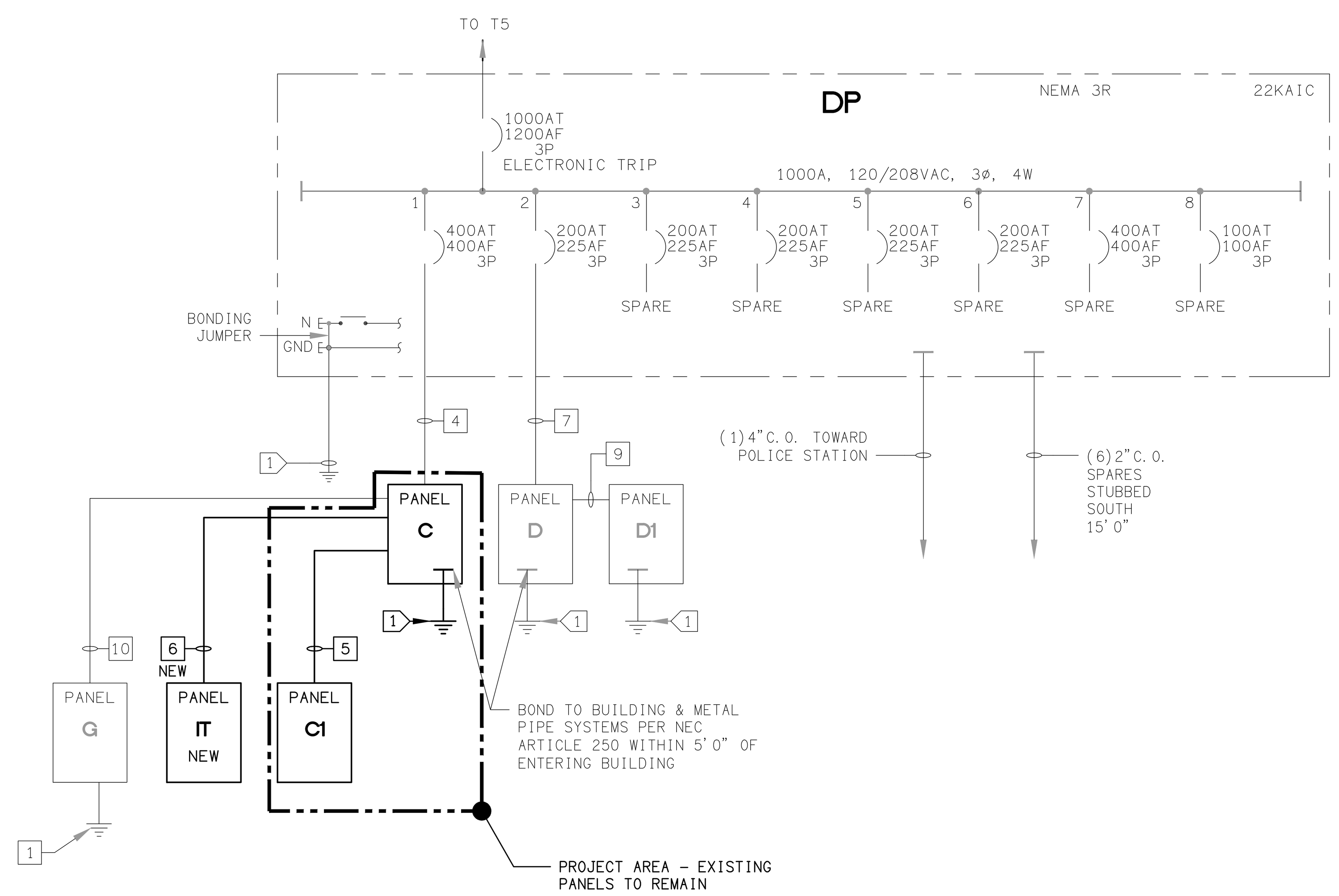
KEY NOTES:

1. #1/0 UFER & 2 GROUND RODS – 3/4" X 10'0" 15'0" APART MINIMUM

FEEDER SCHEDULE (U.O.N.)

	TAG	CONDUIT/CONDUCTOR	FROM	TO
EXISTING	4	4"C – 4#500MCM (XHHW-2) & 1#1/0 GND EACH	DP	C
EXISTING	5	2"C – 4#3/0 (XHHW-2) & 1#6 GND	C	C1
NEW	6	1-1/2"C – 4#1 (XHHW-2) & 1#8 GND & 1#6 ISO GND	C	IT
EXISTING	7	2"C – 4#3/0 (XHHW-2) & 1#6 GND	DP	D
EXISTING	8	1-1/2"C – 4#1 (XHHW-2) & 1#8 GND	DP	CELL TOWER
EXISTING	9	1-1/4"C – 4#2 (XHHW-2) & 1#8 GND	D	D1
EXISTING	10	1"C – 4#8 & 1#10 GND	C	G

ALL DEVICES ARE FULLY RATED



EXISTING ELECTRICAL SINGLE LINE DIAGRAM
SCALE: NONE

1
E2.00

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REVISIONS	DATE	BY
1		

ROY E COLBERT

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PLANNING
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REGISTERED PROFESSIONAL ENGINEER KENNETH W. LUCCI No. E 8340 Exp. 09/30/2018 ELECTRICAL STATE OF CALIFORNIA

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M&O:
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PROJECT DIRECTORY

SOILS ENGINEER / SEPTIC SYSTEM:
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ELECTRICAL ENGINEER:
LUCCI & ASSOCIATES
KEN LUCCI
805/389.6520

MECHANICAL ENGINEER:
XXXX

LANDSCAPE ARCHITECT:
XXXX

WATER SYSTEM / FIRE PROTECTION SYSTEM:
XXXXt

SINGLE LINE DIAGRAM

SHEET NAME

DATE 09-03-2017

SCALE AS SHOWN

PROJECT C16 - 006

SHEET NUMBER E2.00 OF 00 SHEETS

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NEW PANEL

PANEL NUMBER IT VOLTAGE 120/208 PHASE 3 WIRE 4
SOURCE C A.I.C. 10000
PANEL LOCATION BUILDING C BUS AMPERE RATING 100
■ NEMA 1 ■ COPPER BUSS
■ MAIN LUGS ONLY
■ SURFACE MOUNTING

RCPT	CIRCUIT DESCRIPTION	LOAD(VA) A	B	C	BRKR POLE	AMP	CKT	CKT	BRKR AMP	POLE	LOAD(VA) A	B	C	CIRCUIT DESCRIPTION	RCPT
	RECEPTACLE	180			1	20	1	2	30		1000			RECEPTACLE	
	RECEPTACLE		180				3	4		2		1000		RECEPTACLE	
	RECEPTACLE			180			5	6	20	1			–	SPARE	
	RECEPTACLE	180					7	8			–			SPARE	
	RECEPTACLE		180				9	10				–		SPARE	
	RECEPTACLE			180			11	12					–	SPARE	
	RECEPTACLE	180					13	14			–			SPARE	
	RECEPTACLE		180				15	16				–		SPARE	
	SPARE			–			17	18					–	SPARE	
	SPARE	–					19	20			–			SPARE	
	SPARE		–				21	22				–		SPARE	
	SPARE			–			23	24	20				–	SPARE	
	SPARE	–					25	26		2	–			SPARE	
	SPARE		–				27	28	30			–		SPARE	
	SPARE			–			29	30		2			–	SPARE	
	TOTALS	540	540	360							1000	1000	·	TOTALS	

L.C.L. VOLT AMPS: . PHASE A . PHASE B . PHASE C .
TOTAL VOLT AMPS: 3440 PHASE A 1540 PHASE B 1540 PHASE C 360
TOTAL AMPS: 9.6 PHASE A 12.8 PHASE B 12.8 PHASE C 3.0
ISOLATED GROUND BUS

REVISED EXISTING PANEL

PANEL NUMBER C VOLTAGE 120/208 PHASE 3 WIRE 4
SOURCE DP A.I.C. 22000
PANEL LOCATION BUILDING C BUS AMPERE RATING 400
■ NEMA 1 ■ COPPER BUSS
■ MAIN CIRCUIT BREAKER 400
■ SURFACE MOUNTING

RCPT	CIRCUIT DESCRIPTION	LOAD(VA) A	B	C	BRKR POLE	AMP	CKT	CKT	BRKR AMP	POLE	LOAD(VA) A	B	C	CIRCUIT DESCRIPTION	RCPT
2	JAY OFFICE RECEPT.	360			1	20	1	2	20	1	720			STORAGE RECEPTACLE	4
2			360				3	4				360		OFFICE 104 RECEPTACLE	2
3				540			5	6					540	OFFICE 104 RECEPTACLE	3
	SPARE	–					7	8			540			OFFICE 105 RECEPTACLE	3
	SPARE		–			40	9	10				360		OFFICE 105 RECEPTACLE	2
				–			11	12					540	OFFICE 105 RECEPTACLE	3
		–			3		13	14			360			CONFERENCE RECEPTACLE	2
	SPARE		–			60	15	16				360		CONFERENCE RECEPTACLE	2
				–			17	18					360	CONFERENCE RECEPTACLE	2
		–			3		19	20			–			SPARE	
	SPARE		–			60	21	22	30			500		PANEL G	
				–			23	24					200		
		–			3		25	26		3	680				
	SPARE		–			100	27	28	20	1		500		BATHROOM RECEPTACLE	
				–			29	30					500		
		–			3		31	32			500				
	SPARE		–		1	20	33	34				500			
	EF1, EF2, EF3			600	1	20	35	36					500		
	PANEL IT	2000				100	37	38	200		12240			PANEL C1	
			2000				39	40				11900			
				2000	3		41	42		3			11520		
	AC-1A	2400				30	43	44	30		2250			WATER HEATER	
			2400				45	46		2		2250			
				2400	3		47	48	20	1			–	SPARE	
	AC-1B	2400				30	49	50	20	1	–				
			2400				51	52	20	1		–			
				2400	3		53	54	20	1			–		
	TOTALS	7160	7160	7940							17290	16730	14160	TOTALS	

L.C.L. VOLT AMPS: . PHASE A . PHASE B . PHASE C .
TOTAL VOLT AMPS: 70440 PHASE A 24450 PHASE B 23890 PHASE C 22100
TOTAL AMPS: 195.7 PHASE A 203.8 PHASE B 199.1 PHASE C 184.2

EXISTING PANEL

PANEL NUMBER C VOLTAGE 120/208 PHASE 3 WIRE 4
SOURCE DP A.I.C. 22000
PANEL LOCATION BUILDING C BUS AMPERE RATING 400
■ NEMA 1 ■ COPPER BUSS
■ MAIN CIRCUIT BREAKER 400
■ SURFACE MOUNTING

RCPT	CIRCUIT DESCRIPTION	LOAD(VA) A	B	C	BRKR POLE	AMP	CKT	CKT	BRKR AMP	POLE	LOAD(VA) A	B	C	CIRCUIT DESCRIPTION	RCPT
	SPARE	–			1	20	1	2	20	1	–			SPARE	
			–				3	4				–			
				–			5	6					–		
		–					7	8			–				
	SPARE		–			40	9	10				–			
				–			11	12					–		
		–			3		13	14			–				
	SPARE		–			60	15	16				–			
				–			17	18					–		
		–			3		19	20			–				
	SPARE		–			60	21	22	30			500		PANEL G	
				–			23	24					200		
		–			3		25	26		3	680				
	SPARE		–			100	27	28	20	1		500		BATHROOM RECEPTACLE	
				–			29	30					500		
		–			3		31	32			500				
	SPARE		–		1	20	33	34				500			
	EF1, EF2, EF3			600	1	20	35	36					500		
	PANEL IT	2000				100	37	38	200		7700			PANEL C1	
			2000				39	40				7200			
				2000	3		41	42		3			6440		
	AC-1A	2400				30	43	44	30		2250			WATER HEATER	
			2400				45	46		2		2250			
				2400	3		47	48	20	1			–	SPARE	
	AC-1B	2400				30	49	50	20	1	–				
			2400				51	52	20	1		–			
				2400	3		53	54	20	1			–		
	TOTALS	23800	23800	24400							15130	14950	11640	TOTALS	

L.C.L. VOLT AMPS: . PHASE A . PHASE B . PHASE C .
TOTAL VOLT AMPS: 113720 PHASE A 38930 PHASE B 38750 PHASE C 36040
TOTAL AMPS: 315.9 PHASE A 324.4 PHASE B 322.9 PHASE C 300.3

REVISED EXISTING PANEL (CHANGE BREAKERS AS REQUIRED WITH SAME MANUFACTURER & TYPE)

PANEL NUMBER C1 VOLTAGE 120/208 PHASE 3 WIRE 4
SOURCE C A.I.C. 10000
PANEL LOCATION BUILDING C BUS AMPERE RATING 225
■ NEMA 1 ■ COPPER BUSS
■ MAIN LUGS ONLY
■ FLUSH MOUNTING

RCPT	CIRCUIT DESCRIPTION	LOAD(VA) A	B	C	BRKR POLE	AMP	CKT	CKT	BRKR AMP	POLE	LOAD(VA) A	B	C	CIRCUIT DESCRIPTION	RCPT	NOTE
	INTERNAL LIGHTS [1] (ckts 1–9: [6])	600			1	20	1	2	20	1	200			LIGHTING EXTERIOR BLDG		[1] SPAK CKT 6
			1000				3	4	20	1		200		BATHROOM LIGHTING		
				1000			5	6	20	1			720	CORRIDOR RECEPTACLE		
		1000					7	8	20	1	360			MARTIN OFFICE RECEPT.		
			1000				9	10	20	1		360		MARTIN OFFICE RECEPT.		
	SPARE			–			11	12	20	1			–	–		
2	HILDA OFFICE	360					13	14	20	1	200			EXIT SIGNS		[2]
2			360				15	16				–		SPARE		
2				360			17	18					500	KILN YARD RECEPTACLE		
	RECEPTION RECEPTACLE	360					19	20			500			KILN YARD RECEPTACLE		
	VIDEO @ RECEPTACLE		500				21	22				500		DRY GLAZE ROOM RECEPT		
	RECEPTION RECEPTACLE			360			23	24					500	DRY GLAZE ROOM RECEPT		
		360					25	26			500			JANITOR CLOSET RECEPT		
			360				27	28				360		RECEPTACLE		
	EXTERIOR N. RECEPT			500			29	30					100	FIRE ALARM		[2]
		500					31	32			700			LIGHTING EXTERIOR SITE		[1] SPAK CKT 5
			500				33	34				–		SPARE		
				500			35	36					–			
		500					37	38			360			OFFICE 106	2	
			500				39	40				720			4	
	ROOF RECEPTACLE			540			41	42					720	OFFICE 107	4	
	PRINTER	1000					43	44			360				2	
	SCANNER		1000				45	46	15			200		FC-1		(N)
	COPY			1000			47	48		2			200			(N)
2	VIDEO LUNCH ROOM	500					49	50	30		700			EXTERIOR LIGHTS		[1] (ckts 50–60: [4])
2	LUNCH ROOM		360				51	52		2		700				
3				540			53	54	30				700	EXTERIOR LIGHTS		
2		360					55	56		2	700					
2			360				57	58	30			700		EXTERIOR LIGHTS		
2				360			59	60		2			700			
2		360					61	62	30		700			EXTERIOR LIGHTS		[1] (ckts 62–68: [5])
2			360				63	64		2		700				
2	CHECK IN OFFICE RECEPT			360			65	66	30				700	EXTERIOR LIGHTS		
2		360					67	68		2	700					
			360				69	70	30			1000		CU-1		
				360			71	72		2			1000	CU-1		
	TOTALS	6260	6660	5880							5980	5440	5840	TOTALS		

L.C.L. VOLT AMPS: . PHASE A . PHASE B . PHASE C .
TOTAL VOLT AMPS: 36060 PHASE A 12240 PHASE B 12100 PHASE C 11720
TOTAL AMPS: 100.2 PHASE A 102.0 PHASE B 100.8 PHASE C 97.7

EXISTING PANEL

PANEL NUMBER C1 VOLTAGE 120/208 PHASE 3 WIRE 4
SOURCE C A.I.C. 10000
PANEL LOCATION BUILDING C BUS AMPERE RATING 225
■ NEMA 1 ■ COPPER BUSS
■ MAIN LUGS ONLY
■ FLUSH MOUNTING

RCPT	CIRCUIT DESCRIPTION	LOAD(VA) A	B	C	BRKR POLE	AMP	CKT	CKT	BRKR AMP	POLE	LOAD(VA) A	B	C	CIRCUIT DESCRIPTION	RCPT	NOTE
	SPARE	–			1	20	1	2	20	1	200			LIGHTING EXTERIOR BLDG		[1]
			–				3	4	20	1		200		BATHROOM LIGHTING		
				–			5	6	30				1500	BATHROOM LIGHTING		
		–					7	8		2	1500			CLASSROOM LIGHTING		
			–				9	10	30			1500		CLASSROOM LIGHTING		
				–			11	12		2			1500	CLASSROOM LIGHTING		
	SPARE	–					13	14	20	1	200			EXIT SIGNS		[2]
			–				15	16				–		SPARE		
				–			17	18					500	KILN YARD RECEPTACLE		
		–					19	20			500			KILN YARD RECEPTACLE		
			–				21	22				500		DRY GLAZE ROOM RECEPT		
				–			23	24					500	DRY GLAZE ROOM RECEPT		
	SPARE	–					25	26			500			JANITOR CLOSET RECEPT		
	SPARE		–				27	28				360		RECEPTACLE		
	EXTERIOR N. RECEPT			500			29	30					100	FIRE ALARM		[2]
		500					31	32			700			LIGHTING EXT SITE		[1]
			500				33	34				–		SPARE		
				500			35	36					–			
		500					37	38			–					
			500				39	40				–				
	ROOF RECEPTACLE			540			41	42					–			
	SPARE	–					43	44			360			RECEPTACLE @ CHECK IN		
			–				45	46				360		RECEPTACLE @ CHECK IN		
				–			47	48					360	RECEPTACLE @ CHECK IN		
		–					49	50	30		700			EXTERIOR LIGHTS		[1]
			–				51	52		2		700				
				–			52	54	30				700	EXTERIOR LIGHTS		
		–					55	56		2	700					
			–				57	58	30			700		EXTERIOR LIGHTS		
				–			59	60		2			700			
		–					61	62	30		700			EXTERIOR LIGHTS		[1]
			–				63	64		2		700				
				–			65	66	30				700	EXTERIOR LIGHTS		
	SPARE	–					67	68		2	700					
	SPARE		–				69	70	30			–		SPARE		
	SPARE			–			71	72		2			–	SPARE		
	TOTALS	4360	4680	4900							7400	6160	7700	TOTALS		

L.C.L. VOLT AMPS: . PHASE A . PHASE B . PHASE C .
TOTAL VOLT AMPS: 35200 PHASE A 11760 PHASE B 10840 PHASE C 12600
TOTAL AMPS: 97.8 PHASE A 98 PHASE B 90.3 PHASE C 105

[1] VIA LITHONIA SPAK-8-120 CONTROLLING (3)6 POLE CONTACTORS (SEE E-300) WITH TWO CONTROL STATIONS – CONTRACTOR TO PROGRAM PER M&O REQUIRMENTS.
[2] LOCK ON DEVICE.
[3] VIA TORK ASTRONOMICAL TIME CLOCK.
[4] CONTACTOR 1 SPAK CKT 4
[5] CONTACTOR 2 SPAK CKT 3
[6] CONTACTOR 3 SPAK CKT 2

IT	C (REV) C
	CI (REV) CI

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS.

REVISIONS	DATE	BY
△1		
△		
△		
△		
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ROY E COLBERT
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LUCCI & ASSOCIATES
KEN LUCCI
805/389.6520

MECHANICAL ENGINEER:
XXXX

LANDSCAPE ARCHITECT:
XXXX

WATER SYSTEM / FIRE PROTECTION SYSTEM:
XXXXt

EXISTING ELECTRICAL PANEL SCHEDULES
SHEET NAME

DATE 09-03-2017
SCALE AS SHOWN
PROJECT C16 - 006
SHEET NUMBER E2.01 OF 00 SHEETS

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G:\16\247\EL\Sheets\16247E201.dwg Sep 03, 2017, 12:45pm Lee Keener
Drafter: Lee Keener; G:\16\247\EL\Sheets\16247E201.dwg; DATE: JUL 05, 2017 TIME: 3:55 PM

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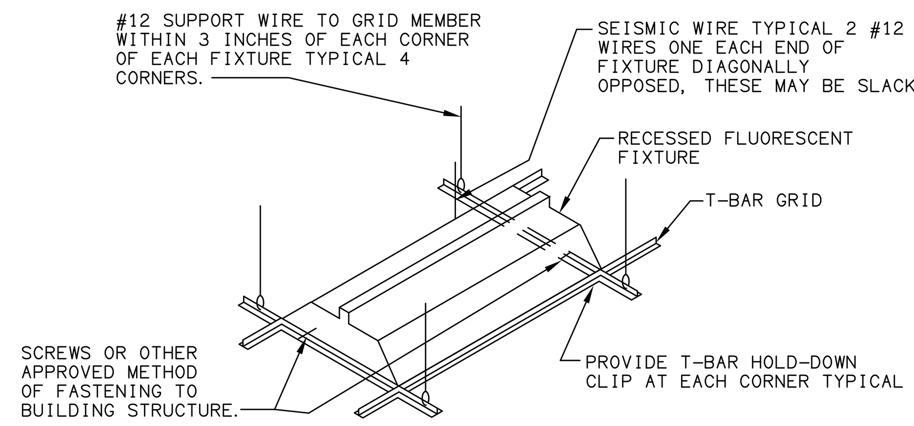
DRAFTER: Lee Keener DRAWING FILENAME: 16247E300-1 PATHNAME: G:\16\247\EL\Sheets DATE: 3 September 2017 TIME: 12:45 pm



ALL LIGHTING FIXTURES SHALL BE SECURELY ATTACHED TO THE SUSPENDED CEILING SYSTEM. THE ATTACHMENT DEVICE SHALL HAVE A CAPACITY OF 100 PERCENT OF THE LIGHT FIXTURE WEIGHT ACTING IN ANY DIRECTION.

WHEN INTERMEDIATE SYSTEMS ARE USED, #12 GAGE HANGERS SHALL BE ATTACHED TO THE GRID MEMBERS WITHIN 3 INCHES OF EACH CORNER OF EACH FIXTURE. TANDEM FIXTURES MAY UTILIZE COMMON WIRES.

WHERE HEAVY DUTY SYSTEMS ARE USED, SUPPLEMENTAL HANGERS ARE NOT REQUIRED IF A 48 INCH MODULAR HANGER PATTERN IS FOLLOWED. WHEN CROSS RUNNERS ARE USED WITHOUT SUPPLEMENTAL HANGERS TO SUPPORT LIGHTING FIXTURES, THESE CROSS RUNNERS MUST PROVIDE THE SAME CARRYING CAPACITY AS THE MAIN RUNNER.

LIGHTING FIXTURES WEIGHING 56 POUNDS OR MORE SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY APPROVED HANGERS.

PENDANT MOUNTED LIGHTING FIXTURES SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE USING 9 GAGE WIRE OR APPROVED ALTERNATE.

NOTE: ALL ELECTRICAL EQUIPMENT, CONDUIT, FIXTURES, ETC. SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE AS PER CITY ORDINANCES.

FIXTURE SCHEDULE NOTES:

1. FIXTURES TYPE IN CONTACT WITH INSULATION SHALL HAVE U.L. LISTED THERMAL BARRIER.
2. CONTRACTOR SHALL VERIFY THE TYPE OF CEILING BEFORE ORDERING NEW FIXTURES. CONTRACTOR IS FULLY RESPONSIBLE TO PROVIDE ALL MOUNTING BRACKETS TO FIT CEILING CONDITIONS AT NO EXTRA CHARGE TO THE OWNER.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHTING FIXTURES.
4. SEE ARCHITECTURAL PLANS FOR EXACT DIMENSIONS, CEILING CONFIGURATION AND LIGHTING PLACEMENT.
5. XX / XX — FIXTURE TYPE / QUANTITY

LIGHTING FIXTURE SCHEDULE

TAG	SYMBOL	WATT	DESCRIPTION	LAMP - TYPE AND QUANTITY	MOUNTING	MANUFACTURER AND MODEL NUMBER	REMARKS
D1 / –		15	6 INCH DOWNLIGHT	LED	RECESSED	LITHONIA #EV0-35/1500-6AR MVOLT-ISD-BC - N80	-
DS / –		22	6 INCH DOWNLIGHT WET LOCATION	LED	RECESSED	LITHONIA #EV0-35/1500-6DFD MVOLT-ECOS2 - N80	-
F1 / –		22	1'X4'	LED	SURFACE	LITHONIA # LBL4 40L EOHN LP835	
F2 / –		39	2'X4' TROFFER LED	LED	T-BAR	LITHONIA # 2VTL4- 40L-ADP-MVOLT-EZB-LP835-N80	PROVIDE DAYLIGHT HARVESTING PHOTOCELL IN OFFICES/AREAS WITH WINDOWS
EM F2 / –	EM	39	2'X4' TROFFER LED EMERGENCY	LED	T-BAR	LITHONIA # 2VTL4- 40L-ADP-MVOLT-EZB-LP835-N80-EL14L	WITH EL14L (1400 LUMEN BATTERY PACK)
P1 / –		36	PENDANT 8'-0"	LED	PENDANT	PEERLESS BRUNO #BRM9L-LSL-MSL8-80CRI -35K-ID1000LMF-30/70-DARK-NLIGHT 120-SCT-PIR-F1A/-24A-C110-MCS-MCSJ	-
WW / –		12	WALL WASHER	LED	T-BAR	LITHONIA #EV0-WW-35/20-6AR-LS-MVOLT-EZ1-NPS80EZ	
X / –	OR EXIT	7	EXIT SIGN WITH BATTERY	LED	UNIVERSAL	LITHONIA # LRP-1-GC-120-277-EL-N	ARROW AS REQUIRED PER PATH OF EGRESS
Y0 / –		50	AREA LIGHT	LED	PENDANT	KENALL TD17QM5STPLG50L50KDV	

DEVICE/CONTROL LEGEND

TAG	DESCRIPTION
C5	CAT 5 CABLE
$V	VACANCY SENSOR SWITCH
$OS	OCCUPANCY SENSOR SENSOR SWITCH - LINE VOLTAGE DUAL LEVEL WSD PDT 2P
$OL	nLIGHT WALL SWITCH DECORA OCCUPANCY SENSOR DUAL TECHNOLOGY (PDT) LOW VOLTAGE ON/OFF/RAISE/LOWER CONTROL #nWSXPDTLVDXWH
GFX	nPOD GFX GRAPHIC WALLPOD
D1	nLIGHT ON/OFF RAISE LOWER #nPODMDXWH
D2	nLIGHT DIMMER 2 CHANNEL ON/OFF TOGGLE #nPODM2PDXWH
D4	nLIGHT DIMMER 4 CHANNEL TOGGLE WITH DIMMING #nPODM4PDXWH
RP	nLIGHT RELAY PACK #nPP16
RPD	nLIGHT RELAY PACK WITH 0-10V DIMMING CONTROL #nPP16D
RPL	nLIGHT RELAY PLUG LOAD CONTROL #nPP16PLT24 (USED TO SWITCH CONTROLLED OUTLETS)
OS	nLIGHT STANDARD RANGE 360° SENSOR CEILING MOUNT, LOW VOLTAGE DUAL TECHNOLOGY #nCMPDT9
OS LV	LINE VOLTAGE OCCUPANCY SENSOR CEILING MOUNT 120/277V SENSOR SWITCH
OSP	nLIGHT STANDARD RANGE 360° SENSOR CEILING MOUNT, LOW VOLTAGE DUAL TECHNOLOGY (PDT) PHOTOCELL WITH DIMMING (NO WIRES) #nCMPDT9ADCX
AOSP	nLIGHT AUTOMATIC DIMMING CONTROL PHOTOCELL, CEILING MOUNT, LOW VOLTAGE DUAL ZONE #nCMADCXDZ
AAOSP	nLIGHT AUTOMATIC DIMMING CONTROL PHOTOCELL, CEILING MOUNT, LOW VOLTAGE DUAL ZONE WITH OCCUPANCY SENSOR nCMPDT10ADCXDZ
PP2	POWER PACK, 2 LEVEL, 120/277VAC DUAL VOLTAGE
PC	PHOTOCELL 120/277VAC
RPT	nLIGHT TRACK MAGNETIC DIMMER PCDMLV NSP5
CDP	nLIGHT CONTROLLER DIMMER PACK #nPS80EZ
PCD	nLIGHT INCANDESCENT PHASE CONTROLLED DIMMING

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS.

REVISIONS | DATE | BY

ROY E COLBERT

ARCHITECTURE
PLANNING
DESIGN

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REGISTERED PROFESSIONAL ENGINEER KENNETH W. LUCCI No. E 8340 Exp. 09/30/2018 ELECTRICAL STATE OF CALIFORNIA

This project has been designed by me, or under my direct supervision.

ISSUED FOR CONSTRUCTION

VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

VENTURA COLLEGE
4667 Telegraph Road
Ventura, CA 93003

M&O:
MAINTENANCE & OPERATIONS ADMIN RENOVATION

PROJECT DIRECTORY

SOILS ENGINEER / SEPTIC SYSTEM:
XXXX

CIVIL ENGINEER:
XXXX

STRUCTURAL ENGINEER:
XXXX

ELECTRICAL ENGINEER:
LUCCI & ASSOCIATES
KEN LUCCI
805/389.6520

MECHANICAL ENGINEER:
XXXX

LANDSCAPE ARCHITECT:
XXXX

WATER SYSTEM / FIRE PROTECTION SYSTEM:
XXXXt

LIGHTING FIXTURE SCHEDULE AND CONTROL LEGEND

SHEET NAME

DATE 09-03-2017

SCALE AS SHOWN

PROJECT C16 - 006

SHEET NUMBER E3.00.1 OF 00 SHEETS

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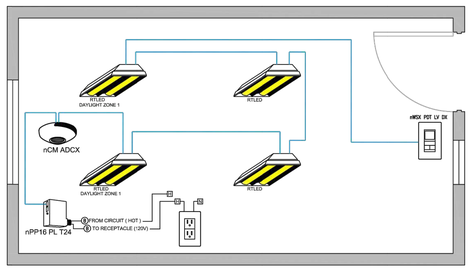


LITHONIA EMBEDDED CONTROLS AND DAYLIGHT HARVESTING
TYPICAL OFFICE 250 SQUARE FEET
NOT TO SCALE

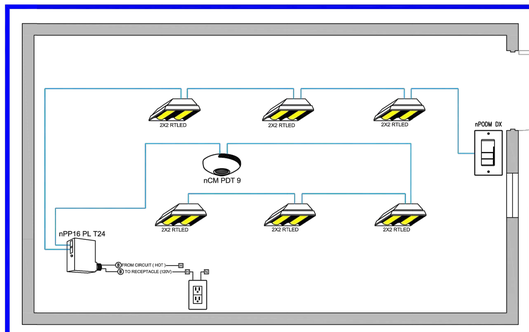
AcuityBrands.

nLIGHT LIGHTING CONTROLS BLOCK DIAGRAM LEGEND

- CLASS II LV CONDUCTORS
- 0-10V DIMMING CONNECTION
- 0-10V DIMMING CONNECTION
- CAT 5 CABLE
- CLASS I LINE VOLTAGE CONDUCTORS

BILL OF MATERIAL

QTY	PRODUCT #
1	NWSX PDT LV DX WH
1	NPP16 PL T24
1	NCM ADCX



LITHONIA EMBEDDED CONTROLS
TYPICAL LARGE OFFICE 500 SQUARE FEET
NOT TO SCALE

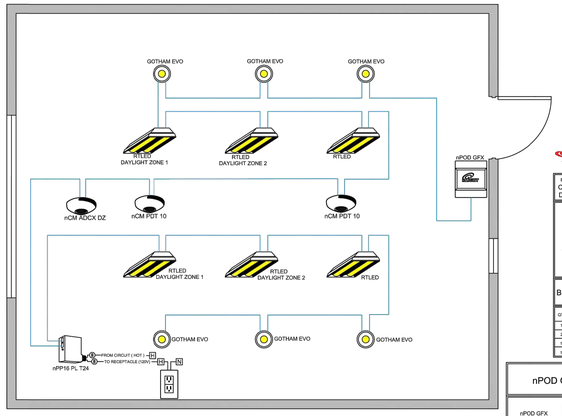
AcuityBrands.

nLIGHT LIGHTING CONTROLS BLOCK DIAGRAM LEGEND

- CLASS II LV CONDUCTORS
- 0-10V DIMMING CONNECTION
- 0-10V DIMMING CONNECTION
- CAT 5 CABLE
- CLASS I LINE VOLTAGE CONDUCTORS

BILL OF MATERIAL

QTY	PRODUCT #
1	NPODM DX WH
1	NPP16 PL T24
1	NCM PDT 9



LITHONIA EMBEDDED CONTROLS AND DAYLIGHT HARVESTING
TYPICAL BOARD ROOM 2000 SQUARE FEET
NOT TO SCALE

AcuityBrands.

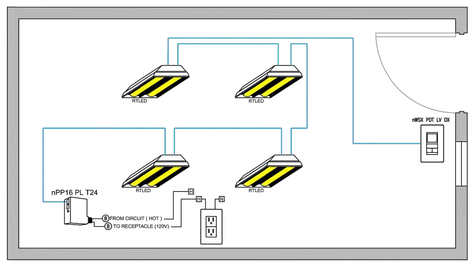
nLIGHT LIGHTING CONTROLS BLOCK DIAGRAM LEGEND

- CLASS II LV CONDUCTORS
- 0-10V DIMMING CONNECTION
- 0-10V DIMMING CONNECTION
- CAT 5 CABLE
- CLASS I LINE VOLTAGE CONDUCTORS

BILL OF MATERIAL

QTY	PRODUCT #
1	NPOD GFX WH
2	NCM PDT 10
1	NPP16 PL T24
1	NCM ADCX DZ

nPOD GFX WH



LITHONIA EMBEDDED CONTROLS
TYPICAL OFFICE 250 SQUARE FEET
NOT TO SCALE

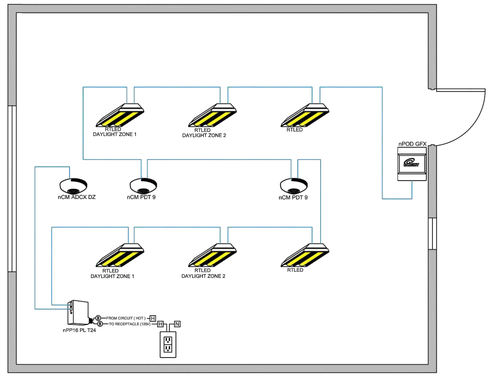
AcuityBrands.

nLIGHT LIGHTING CONTROLS BLOCK DIAGRAM LEGEND

- CLASS II LV CONDUCTORS
- 0-10V DIMMING CONNECTION
- 0-10V DIMMING CONNECTION
- CAT 5 CABLE
- CLASS I LINE VOLTAGE CONDUCTORS

BILL OF MATERIAL

QTY	PRODUCT #
1	NWSX PDT LV DX WH
1	NPP16 PL T24



LITHONIA EMBEDDED CONTROLS AND DAYLIGHT HARVESTING
TYPICAL CONFERENCE ROOM 1000 SQUARE FEET
NOT TO SCALE

AcuityBrands.

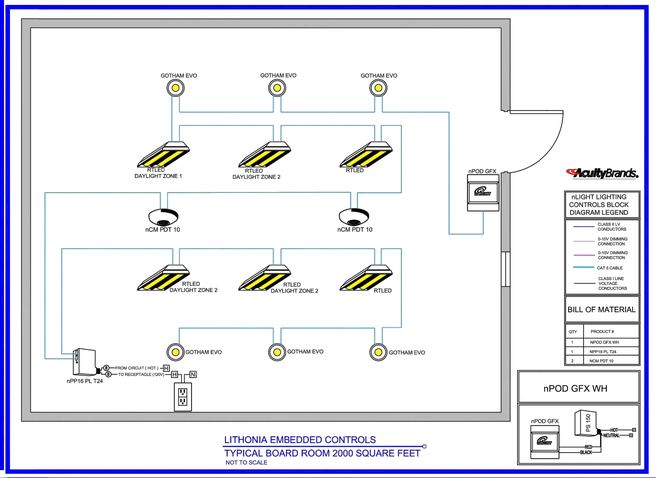
nLIGHT LIGHTING CONTROLS BLOCK DIAGRAM LEGEND

- CLASS II LV CONDUCTORS
- 0-10V DIMMING CONNECTION
- 0-10V DIMMING CONNECTION
- CAT 5 CABLE
- CLASS I LINE VOLTAGE CONDUCTORS

BILL OF MATERIAL

QTY	PRODUCT #
1	NPOD GFX WH
2	NCM PDT 9
1	NPP16 PL T24
1	NCM ADCX DZ

nPOD GFX WH



LITHONIA EMBEDDED CONTROLS
TYPICAL BOARD ROOM 2000 SQUARE FEET
NOT TO SCALE

AcuityBrands.

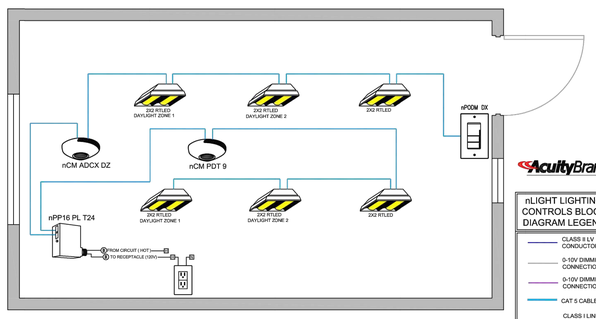
nLIGHT LIGHTING CONTROLS BLOCK DIAGRAM LEGEND

- CLASS II LV CONDUCTORS
- 0-10V DIMMING CONNECTION
- 0-10V DIMMING CONNECTION
- CAT 5 CABLE
- CLASS I LINE VOLTAGE CONDUCTORS

BILL OF MATERIAL

QTY	PRODUCT #
1	NPOD GFX WH
1	NPP16 PL T24
2	NCM PDT 10

nPOD GFX WH



LITHONIA EMBEDDED CONTROLS AND DAYLIGHT HARVESTING
TYPICAL LARGE OFFICE 500 SQUARE FEET
NOT TO SCALE

AcuityBrands.

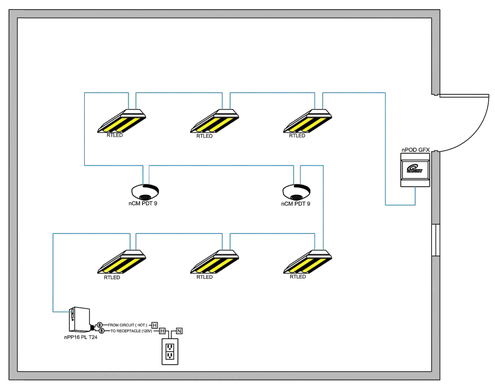
nLIGHT LIGHTING CONTROLS BLOCK DIAGRAM LEGEND

- CLASS II LV CONDUCTORS
- 0-10V DIMMING CONNECTION
- 0-10V DIMMING CONNECTION
- CAT 5 CABLE
- CLASS I LINE VOLTAGE CONDUCTORS

BILL OF MATERIAL

QTY	PRODUCT #
1	NPODM DX WH
1	NCM PDT 9
1	NPP16 PL T24
1	NCM ADCX DZ

nPOD GFX WH



LITHONIA EMBEDDED CONTROLS
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nLIGHT LIGHTING CONTROLS BLOCK DIAGRAM LEGEND

- CLASS II LV CONDUCTORS
- 0-10V DIMMING CONNECTION
- 0-10V DIMMING CONNECTION
- CAT 5 CABLE
- CLASS I LINE VOLTAGE CONDUCTORS

BILL OF MATERIAL

QTY	PRODUCT #
1	NPOD GFX WH
1	NPP16 PL T24
2	NCM PDT 9

CA TITLE 24 DESIGN GUIDE

< 250 SQUARE FOOT OFFICE

- SWITCH WITH ON/OFF RAISE/LOWER *per section 130.1(A)
- RELAY MODULE WITH ON/OFF DIMMING 0-10v *per section 130.1(B)
- OCCUPANCY SENSOR *per section 130.1(C)
- DAYLIGHT HARVESTING *per section 130.1(D)
- AUTOMATIC DEMAND RESPONSE *per section 130.1(E)
- PLUG LOAD CONTROL *per section 130.5 (D)

BILL OF MATERIAL

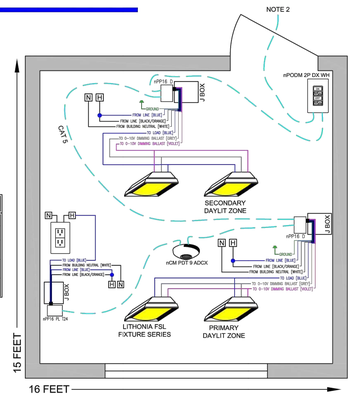
QTY	PRODUCT #	DESCRIPTION
1	nPODM 2P DX WH	2 CHANNEL ON/OFF TOGGLE WITH DIMMING
2	nPP16 D	16 AMP RELAY PACK WITH 0-10V DIMMING CONTROL; CHASE NIPPLE MOUNTING
1	nPP16 PL T24	16 AMP RELAY PACK FOR PLUG LOAD CONTROL; CHASE NIPPLE MOUNTING
1	nCM PDT 9 ADCX	STANDARD RANGE 360° SENSOR-CEILING MOUNT, LOW VOLTAGE, DUAL TECHNOLOGY (PDT), PHOTOCELL W/ DIMMING (NO WIRES)

NOTES
1) OFFICE IS BASED OFF A 15X16 SQ.FT. OFFICE (240 SQFT).

2) IF TOTAL BUILDING SQUARE FOOTAGE IS >10,000 SQ.FT. AUTOMATIC DEMAND RESPONSE IS REQUIRED FOR 2013 T24 *per section 130.1(E)

3) PRODUCTS CAN MEET ANY AND ALL T24 REQUIREMENTS, MUST BE CONFIGURED APPROPRIATELY.

FOR HELP WITH A 2013 T24 LAYOUT CONTACT- MAR VISTA SALES INC.
1840 KNOLL DRIVE
VENTURA, CA
(805) 642-7714



AcuityBrands.
LC & D - ROAM - SENSOR SWITCH - SYNERGY

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L.A.I.# 16247 PAPER SIZE 42"x30"

REVISIONS	DATE	BY
1		

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REGISTERED PROFESSIONAL ENGINEER
KENNETH W. LUCCI
No. E 9840
Exp. 09/30/2018
ELECTRICAL
STATE OF CALIFORNIA

This project has been designed by me, or under my direct supervision.

ISSUED FOR CONSTRUCTION

VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

VENTURA COLLEGE
4667 Telegraph Road
Ventura, CA 93003

M&O:
MAINTENANCE & OPERATIONS ADMIN RENOVATION

PROJECT DIRECTORY

SOILS ENGINEER / SEPTIC SYSTEM:
XXXX

CIVIL ENGINEER:
XXXX

STRUCTURAL ENGINEER:
XXXX

ELECTRICAL ENGINEER:
LUCCI & ASSOCIATES
KEN LUCCI
805/389.6520

MECHANICAL ENGINEER:
XXXX

LANDSCAPE ARCHITECT:
XXXX

WATER SYSTEM / FIRE PROTECTION SYSTEM:
XXXXI

nLIGHT ROOM LAYOUTS

SHEET NAME

DATE 09-03-2017

SCALE AS SHOWN

PROJECT C16 - 006

E3.00.2 SHEET NUMBER 00 OF SHEETS

G:\16\247\EL\Sheets\16247E300-2.dwg Sep 03, 2017, 12:45pm Lee Keener

Drafter: Lee Keener; G:\16\247\EL\Sheets\16247E300-2.dwg; DATE: MAY 19, 2017, TIME: 11:22 AM

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nLIGHT

Catalog Number | Notes | Type

PRODUCT OVERVIEW

The **nWSX LV / nWSX PDT LV** Series nLight wall switch occupancy sensor provides a simple control solution for a small room, in particular one utilizing nLight enabled digital luminaires. Capable of detecting small motion up to 20 ft (6.10 m), this sensor is perfect for private offices, private rest rooms, copy rooms, closets or any small enclosed space. The **nWSX LV** uses Passive Infrared (PIR) detection while the **nWSX PDT LV** utilizes PIR/Microphonics Dual Technology (PDT). This stylish sensor can be programmed locally, via the front push-button(s), or remotely via the nLight SensorView software. The **nWSX LV/nWSX PDT LV** includes an integrated photocell (disabled by default).

SENSOR OPERATION — The sensor detects changes in the infrared energy given off by occupants as they move within the field-of-view. When occupancy is detected the sensor signals other nLight enabled devices to switch connected lighting load(s) on. Sensors with Passive Dual Technology (PDT) first see motion using Passive Infrared (PIR) and then engage Microphonics to hear sounds that indicate continued occupancy. This patented technology dynamically adapts a sensor to its environment by filtering out constant background noise and detecting only noises typical of human activity. A factory set internal time delay of 10 minutes keeps the sensor in the occupancy state during brief periods of inactivity. The time delay is reset every time occupancy is re-detected. The sensor requires no field calibration or sensitivity adjustments.

NLIGHT OPERATION — The **nWSX LV/nWSX PDT LV** is *nLight enabled* meaning it is individually addressable and digitally communicates over an nLight network to other nLight enabled devices such as wall switches, power packs, digital luminaires, and other sensors. All devices are wired using CAT-5e cabling; creating a local nLight control zone. Once linked to an nLight Gateway, either directly or via an nLight network backbone, the zone becomes capable of remote status monitoring and control with nLight SensorView software.

STANDALONE OPERATION with DIGITAL LUMINAIRES — When connected directly to an nLight enabled luminaire, the **nWSX LV DX/nWSX PDT LV DX** models provide occupancy, photocell, manual on/off switching, and continuous raise/lower dimming control. This solution requires a single CAT-5e cable between the device and luminaire; no dimming wires, relays, or bus power supply required.

nWSX LV / nWSX PDT LV

WALL SWITCH SENSOR • LOW VOLTAGE PASSIVE INFRARED (PIR) or DUAL TECH (PDT)

nWSX LV / nWSX PDT LV — nWSX LV NL / nWSX PDT LV NL — nWSX LV DX / nWSX PDT LV DX

OPTIONS

NIGHT LIGHT (NL) — Adds white LED night light

DIMMING CONTROL (DX) — Enables raise/lower control of any nLight device with a dimming output (e.g. nIO D, nEPP5 D, nSP5 PCD, sensors w/ ADC or D option & digital luminaires with integrated nIO LED)

LOW TEMPERATURE / HIGH HUMIDITY OPTION (LT)
- Device electronics are coated for corrosion resistance - required for cold storage or humid areas
- Operates down to -40º F/C (-4º F / 20º C for PDT)

FEATURES

- 100% digital PIR detection, vandal resistant lens standard, includes wall plate (screwless sold separate)
- Push-button programmable, adjustable time delays, multiple operating modes
- Multiple **nWSX** sensors or WallPods can be used in 3 way (or greater) configurations w/o traveller wires
- Photocell standard (disabled by default) — prevents lights from initially turning on if sufficient daylight, but does not turn lights off. Photocell not available in NightLight version.
- LED status indicator
- Broadcasts occupancy, photocell, and switch information over a local and/or global nLight channel
- Remotely firmware upgradeable

SPECIFICATIONS

PHYSICAL
SIZE: 2.74" H x 1.68" W x 1.63" D (6.96 cm x 4.27 cm x 4.14 cm)
WEIGHT: 5 oz
MOUNTING: Single Gang Switch Box or Low Voltage Ring

ELECTRICAL
nLIGHT BUS POWER CONSUMPTION <3 mA
WIRES: None

ENVIRONMENTAL & OTHER
OPERATING TEMP: 14º to 160º F (-10º to 71º C)
RELATIVE HUMIDITY: 20 to 90% non-condensing
SILICONE FREE, ROHS COMPLIANT
TITLE 24
ASSEMBLED in U.S.A.
5 YEAR WARRANTY

CONTROL MODES

A control zone with an **nWSX LV / nWSX PDT LV** can operate in several modes:
1. Auto On / Auto Off (i.e. Fully Automatic)
2. Manual On (initial state) to Override On (with expiration timer)
3. Auto On (initial state) to Override On (with expiration timer)
4. Manual On / Automatic Off (i.e. Semi-Automatic)
5. Manual On (initial state) to Fully Automatic
6. Predictive Off Switch (returns zone to auto-on unless person remained in room after an off switch press)

Additionally, an **nWSX LV / nWSX PDT LV** can be set to function in **Multi-Level Operating** Mode (**MLO**) which enables the user to select from multiple on/off lighting states using just the unit's single on/off button. This mode is designed specifically for bi-level applications and eliminates user confusion created when wall stations have multiple buttons. Several different transition sequences are available in order to comply with energy codes or user preference. Depending on the sequence selected and initial lighting state, every subsequent button push steps through states according to below table. MLO sequences are also available that enable high/low or low/high step operation via any nLight dimming output.

Button Press #	2 State (Bi-Level) Sequence Load A	Load B	2 State - Alternating Sequence Load A	Load B	3-State Sequence Load A	Load B
1	On	Off	On	Off	On	Off
2	On	On	Off	On	Off	On
3	Off	Off	Off	Off	On	On
4					Off	Off

ORDERING LOGIC

Example: nWSX PDT LV DX WH

Series	Night Light or Dimming	Color	Temp / Humidity
nWSX LV Passive Infrared	**Blank** None	**WH** White	**Blank** Standard
nWSX PDT LV Dual Technology	**NL** Integrated Night Light	**IV** Ivory	**LT** Low Temp/ High Humidity
	DX Raise/Lower Dim Control	**GY** Gray	
		AL Lt. Almond	

nLIGHT

nCM PDT 9

STANDARD RANGE 360º SENSOR
CEILING MOUNT • LOW VOLTAGE • DUAL TECHNOLOGY (PDT)

SPECIFICATIONS

FEATURES
Patented Dual Technology with PIR / Microphonics Detection
360º Small Motion Coverage
Communicates w/ nLight Network
Integrated On/Off Photocell
Remotely Configurable/Upgradeable
Push-Button Programmable
Adjustable Time Delay
100 Hr Lamp Burn-in Timer
Green LED Indicator

PHYSICAL SPECS
SIZE: 4.55" Dia. (11.56 cm)
1.55" Deep (3.94 cm)
WEIGHT: 6 oz
MOUNTING:
Ceiling Tile Surface
3.5" Octagon Box
Single Gang Handy Box
COLOR: White
nLIGHT NETWORK PORTS: 2 RJ-45

ELECTRICAL SPECS
POWER CONSUMPTION: < 3 mA
DIMMING LOAD (**ADC** version):
Sinks < 20mA
~40 Ballasts/Drivers @ .5mA each

ENVIRONMENTAL SPECS
OPERATING TEMP:
14º to 160º F (-10º to 71º C)
RELATIVE HUMIDITY:
20 to 90% non-condensing
SILICONE FREE
ROHS COMPLIANT

OTHER
UL and CUL Listed
Title 24 Compliant
5 Year Warranty
Assembled in the U.S.A.

OVERVIEW
Open area office lighting control is made cost effective with the use of the **nCM PDT 9** Series Standard Range 360º occupancy sensor. This small, yet powerful sensor provides line of sight PIR detection of small motion in a circular pattern and combines overlapping Microphonics™ coverage for detection of occupants working in their cubical space. By installing multiple **nCM PDT 9s** on 30 ft (9.14 m) centers, large zones are created (typically one per circuit of lighting). The lighting is then controlled in blocks similar to manual switching. Restrooms with stalls, large storage areas with shelving, and libraries with study carrels are also easily and cost effectively controlled by the **nCM PDT 9**.

SENSOR OPERATION
Sensors with Passive Dual Technology (PDT) first see motion using Passive Infrared (PIR) detection and then engage Microphonics™ to hear sounds that indicate continued occupancy. This patented technology uses Automatic Gain Control (AGC) to dynamically self adapt a sensor to its environment by filtering out constant background noise and registering only noises typical of human activity. Once occupancy is detected, a relay located elsewhere within the sensor's zone is signaled to switch the line voltage lighting load on. An internal time delay, factory set at 10 minutes, keeps the sensor in the occupancy state during brief periods of inactivity. The timer is adjustable, and is reset every time occupancy is re-detected. This state-of-the-art sensor requires no field calibration or adjustment.

ON/OFF PHOTOCELL OPERATION
As a standard feature, these sensor have an integrated on/off photocell. This photocell can provide two types of operation. The first mode provides increased energy savings by switching lights off during occupied periods with sufficient daylight contribution. The second mode will prevent lights from initially turning on if adequate daylight is present, but won't switch them off once the lights are on. All on/off photocell operation is disabled by default.

nLIGHT OPERATION
This sensor is a native nLight device, meaning it has the ability to communicate over an nLight network. When daisy-chain wired, using CAT-5e cabling, with other nLight sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software.

OPTIONS

AUTOMATIC DIMMING CONTROL PHOTOCELL (ADCX / ADC)
- Photocell within sensor maintains total room light level by automatically adjusting controlled lighting
- Typically used with remote nLight devices with dimming outputs (e.g. **nIO LED, nSP5 D, nSP5 PCD, nEPP5 D, nPANEL 4**)
- Provides a second time-out period that enable the lights to go to a dim setting before turning off
- Follows dimming commands from nLight WallPod dimmer or SensorView software
- **ADC** version adds 20 AWG violet (dim output) and gray (common) wires, & an 18 AWG green ground wire

LOW TEMP/HIGH HUMIDITY (LT)
- Sensor electronics are coated for corrosion resistance
- Operates down to -4º F (-20º C)
- Required for bathroom & cooler/freezer applications

ORDERING INFO

nCM PDT 9 [DAYLIGHTING] [TEMP/HUMIDITY]

OPTIONS: DAYLIGHTING	TEMP/HUMIDITY
Blank = None	Blank = Standard
ADCX = Auto Dimming Control Photocell (no wires)	LT = Low Temp
ADC = Auto Dimming Control Photocell (with 0-10 VDC wires)	

nLIGHT

Catalog Number | Notes | Type

PRODUCT OVERVIEW

The nLight **nPP16** family of power packs is the workhorse of an nLight system, delivering robust system performance and design versatility for commercial and industrial lighting control applications. The **nPP16** family is capable of switching loads up to 16 Amps via an internal latching relay designed with robust protection from the harsh switching requirements of T5 fluorescent and LED loads. These power packs also provide nLight system bus power - up to 40mA from each of its two RJ-45 ports - by transforming Class 1 line voltage (120/277 VAC or 347 VAC) to Class 2 15 VDC. This power is typically utilized by other nLight devices within the power pack's local control zone; however, remaining power is also made available over the network for Bridges and devices in other zones to utilize.

Besides switching, the **nPP16** family has an optional 0-10V dimming output. This output can be directly wired to 0-10 VDC dimmable ballasts or LED drivers, and is fully isolated internally from ingress noise or line voltage faults. Models are available with dimming wires running through the chase nipple (**nPP16 D**) or out the side of the enclosure (**nPP16 DS**).

The **nPP16 ER** and **nPP16 D ER** version relay packs provide a UL 924 compliant solution for controlling luminaires powered via an emergency circuit. Packs are wired to both normal and emergency power feeds. A unit only monitors the normal feed, while the emergency feed is connected to the line side of its relay. The power feed to emergency lighting is connected to the load side of the unit's relay. When normal power is present the relay is free to switch the emergency power feed as directed by sensors, switches, and schedules. However, if the normal power feed is lost the **nPP16 (D) ER** will override its relay closed and set its dimming output to full bright, thus ensuring emergency lighting is on. During this emergency operation period, the unit will not allow any switching or dimming to take place regardless of the presence of an occupancy, daylight, or other control signal. Emergency units power themselves from the emergency feed they are controlling, but they do not supply bus power out of the RJ-45 ports, and are often complemented with standard nPP16 power/relay packs that control a zone's normal-powered lighting.

To simplify installation, all **nPP16** family power packs are designed with an elongated chase nipple that allows them to be attached directly through a ½" knockout into a junction box or luminaire.

nLIGHT OPERATION
All **nPP16** family power/relay packs are native nLight devices, meaning they are individually addressable and communicate digitally over an nLight network to integrate with other nLight enabled devices, such as wall switches, sensors, and photocells. Creation of a local nLight control zone is done by simply wiring together nLight devices using CAT-5e cabling. When an nLight zone is linked to an nLight Gateway (nGWY2) - either directly via an nLight network backbone (nBRG 8) or wirelessly via nWiFi - the zone becomes capable of remote status monitoring and control with nLight SensorView software.

All nLight switches and sensors can be configured to output on one of 16 local channels or 128 global channels. **nPP16** family power/relay packs are configured to follow one or more of these channels via their tracking channel settings. By default, a standard **nPP16** is configured to follow all occupancy, photocell, and switch commands on Channel 1.

Once powered, units close their relay. If an nLight occupancy sensor is connected, the pack will automatically start following the occupancy status of the sensor. The factory default sequence of operation of standard units is Auto On/Auto Off. Via the **-SA** option, Manual On / Auto Off is also available as the factory default operational sequence. Several other operational sequences are selectable via the unit's push-button or via SensorView software. If communication is lost between an **nPP16** family power/relay pack and all other nLight devices, the unit will revert back to its default state of relay closed (lights on). All factory defaults can be changed by using the unit's push-button or via SensorView software.

Note: For information on current monitoring relay packs, see the nPP16 IM series datasheet.

nPP16 FAMILY

POWER / RELAY PACK w/ OPTIONAL DIMMING and EMERGENCY OPERATION

Model #: nPP16 (D) — Model #: nPP16 (D) ER

KEY OPTIONS

DIMMING CONTROL (D, DS)
- Provides dimming outputs to control 0-10 VDC dimmable ballasts or LED drivers
- Follows dimming commands from nLight dimming WallPods, Photocells, Scene Controllers, and/or SensorView software
- Adds 20 AWG (600V rated) violet & gray wires through chase nipple (**D** option) or via a separate side output (**DS** option)
- Isolated dimming circuitry provides robust network protection from ingress noise or line voltage faults

EMERGENCY OPERATION (ER)
- Controls luminaires powered via an emergency circuit
- UL924 Listed
- Monitors normal power and overrides relay closed and sets dimming output (if present) to full bright if normal feed is lost regardless of current state or sensor status

DEFAULT MODE (SA, SA2, SW2, PL T24)
- **SA** option changes default operating mode to Manual On/Auto Off
- **SA2** and **SW2** change default switch tracking channel to 2
- **PL T24** option changes default operation to track only occupancy sensors (not switches or photocells)

347 VAC (347)
- Allows unit to be powered from and switch 347 VAC.

LOW TEMP/HIGH HUMIDITY (LT)
- Device electronics are coated for corrosion resistance - required for cold storage or humid areas
- Unit operates down to -40º F/C

OPERATIONAL SETTINGS

Several operational settings for the **nPP16** family are available, including:
- Override (On/Off/Normal) & Relay Test Mode (Enable/Disable)
- Occupancy, Photocell, & Switch Tracking (Enable/Disable)
- Occupancy, Photocell, & Switch Tracking Channel (1-16 each)
- Idle Time to Dim
- Special Operating Modes:
  Manual On to Auto Off (Semi-Auto), Auto to (Timed) Override On, Manual to (Timed) Override On, Manual On to Full Auto, Predictive Off
- Occupancy Expiration of Manual Off / Timed Expiration of Manual Off
- Maintain Dim Level When Vacant
- Occupied Bright Level & Unoccupied Dim Level
- High End & Low End Trim

nLIGHT

nPP16 Power / Relay Pack

SPECIFICATIONS

ELECTRICAL SPECS
OPERATING VOLTAGE
120/277 VAC
347 VAC (with -347 option)
MAX LOAD: (No derating necessary)
16A @ 120 VAC/ 277 VAC
16A @ 347 VAC (with -347 option)
MAX RECEPTACLE LOAD: 16A
MOTOR LOAD: 1 HP
RELAY TYPE: Latching

FREQUENCY: 50/60 Hz
BUS OUPUT CURRENT/VOLTAGE:
40mA / port @ 15 VDC
(non-ER units only)
MAX DIMMING LOAD (with -D option):
Sinks 100 mA; 0-10 VDC dimmable ballasts or LED drivers
nLIGHT NETWORK PORTS: (2) RJ-45

PHYSICAL SPECS
SIZE: (not incl. 1/2" chase nipple)
3.38" H x 2.53" W x 1.83" D
(8.59 cm x 6.43 cm x 4.65 cm)
WEIGHT: 6 oz
MOUNTING: 1/2" knockout
(7/8" hole) on box or fixture
COLOR:
White (Standard)
RED (-ER versions)
BLUE (-PL T24 versions)

ENVIRONMENTAL SPECS
OPERATING TEMP:
Standard: 14º to 122º F (-10º to 50º C)
LT Option: -40º to 122º F (-40º to 50º C)
RELATIVE HUMIDITY:
Standard: 20 to 75% non-condensing
LT Option: 20 to 90% non-condensing
ROHS COMPLIANT
SILICONE FREE

ORDERING INFORMATION

nPP16

Series	Dimming	Emergency	Default Mode
nPP16 Power/Relay Pack	**(blank)** None	**(blank)** None	**(blank)** Auto On (Switch Ch. 1)
	D 0-10 VDC Dimming Output (via chase nipple)	**ER** UL924 Emergency Operation	**SW2** Auto On (Switch Ch. 2)
	DS 0-10 VDC Dimming Output (via side slot)		**SA** Manual On (Switch Ch. 1)
			SA2 Manual On (Switch Ch. 2)
			PL T24 Occ. only Tracking (CA-T24 Plug Load)

Voltage	Temp/Humidity
(blank) 120/277 VAC	**(blank)** Standard
347 347 VAC	**LT** Low Temp

Note: For information on current monitoring relay packs, see the nPP16 IM series datasheet.

AcuityBrands. Expanding the boundaries of lighting™

TITLE 24 SYSTEM COMPONENT ASSEMBLED in U.S.A.

WARRANTY
5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

READ AND FOLLOW ALL SAFETY INSTRUCTIONS! SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER AFTER INSTALLATION
- To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards please read all warnings and instructions included with and on the fixture box and all fixture labels.
- Before installing, servicing, or performing routine maintenance upon this equipment, follow these general precautions.
- Installation and service should be performed by a qualified licensed electrician.
- Maintenance should be performed by qualified person(s) familiar with the products' construction & operation & any hazards involved. Regular maintenance programs recommended.
- **DO NOT INSTALL DAMAGED PRODUCT!** This product has been properly packed so that no parts should have been damaged during transit. Inspect to confirm. Any part damaged or broken during or after assembly should be replaced.

CAUTION: RISK OF PRODUCT DAMAGE
- Electrostatic Discharge (ESD): ESD can damage product(s). Personal grounding equipment should be worn during all installation or servicing of the unit.
- Do not touch individual electrical components, as this can cause ESD and affect product performance.
- Do not stretch or use cable sets that are too short or are of insufficient length.
- Do not modify the product.
- Do not change or alter internal wiring or installation circuitry.
- Do not use product for anything other than its intended use.

WARNING - RISK OF ELECTRIC SHOCK
- Disconnect or turn off power before installation or servicing.
- Verify that supply voltage is correct by comparing it with the product information.
- Make all electrical and grounded connections in accordance with the National Electrical Code (NEC) and any applicable local code requirements.
- All wiring connections should be capped with UL approved recognized wire connectors.
- All unused connector openings must be capped.

WARNING - RISK OF BURN or FIRE
- Do not exceed maximum wattage, ratings, or published operation conditions of product.
- Do not overload.
- Follow all manufacturer's warnings, recommendations and restrictions to ensure proper operation of product.

CAUTION - RISK OF INJURY
- Wear gloves and safety glasses at all times when installing, servicing or performing maintenance.

Sheet#: TN-602-04

Catalog Number: | Date: | Project:

OVERVIEW
The nPODM Series WallPods are nLight-enabled toggle and/or raise/lower switches that provide a user with local control of a lighting zone. These single gang decorator style devices have soft-click buttons and have a green LED indicator for each button. WallPods communicate with other nLight devices via a CAT-5e cable that connects to one of its two RJ-45 connectors. A basic low voltage WallPod can work with an nLight power pack or nLight enabled fixture to provide toggle switch operation. WallPods with the DX option have the added ability to adjust the level of any nLight controlled dimmable lighting.

FEATURES
- Communicates with nLight network
- Remotely configurable/upgradeable
- Soft-click push-button control
- Custom button engraving at no charge (WH, IV, AL GY units only)
- 1, 2, or 4 channel on/off
- 1, 2, or 4 channel raise/lower
- "Dynamic" options for custom button names when pairing with Acuity Brands nTUNE fixtures

SPECIFICATIONS

Size: (not including ground strap) 2.74" H x 1.68" W x 1.63" D (6.96 cm x 4.27 cm x 4.14 cm)
Weight: 2 oz
Mounting: Single Gang Switch Box or Low Voltage Ring
Color: White, Ivory, Lt. Almond, Gray, Black, Red
nLight Network Ports: 2 RJ-45
Power Consumption: < 5 mA
Wires: None
RoHS Compliant, Title 24 System Component

Warranty
Five-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

AcuityControls. nLight.

nPODM
Wallpod: On/Off & On/Off+Raise/Lower

ORDERING INFORMATION

nPODM — Example: nPODM 2P WH

Series	Preset Type	Dimming Control	Dynamic	Color	Temp/ Humidity
nPODM	[blank] Single channel	[blank] On/off control	[blank] Standard	WH White	[blank] Normal
	2P Two channels	DX On/off + raise/lower control	CCT[1] Correlated color temperature	IV Ivory	LT Low temp
	4P Four channels		GRSC[1] Grayscale	GY Gray	
			COLOR[1] Color control	AL Almond	
				BK Black	
				RD Red	

CUSTOM BUTTON ENGRAVING
- Standard button labeling is shown on back.
- Custom lettering for WH, IV, AL, and GY units can be specified and ordered at no charge at: http://www.acuitybrands.com/products/-/media/Files/Acuity/Brands/Controls/nLight/NGRAVE.PDF
- To ensure color uniformity, ordering templates facilitate specifiying all buttons on a unit as custom lettered. Replacing single buttons not recommended.
- Buttons may ship separately and require field installation.

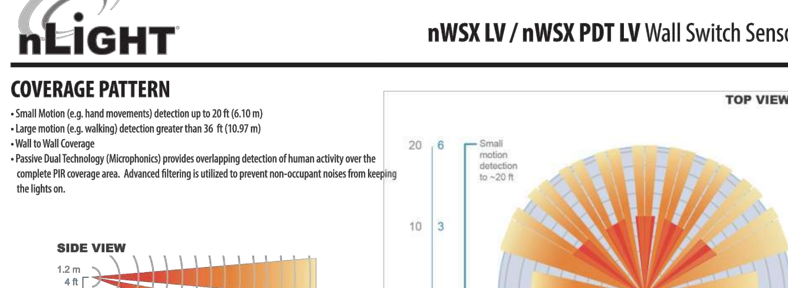
Notes
1. Only available on 2P DX configurations

nLIGHT

nWSX LV / nWSX PDT LV Wall Switch Sensor

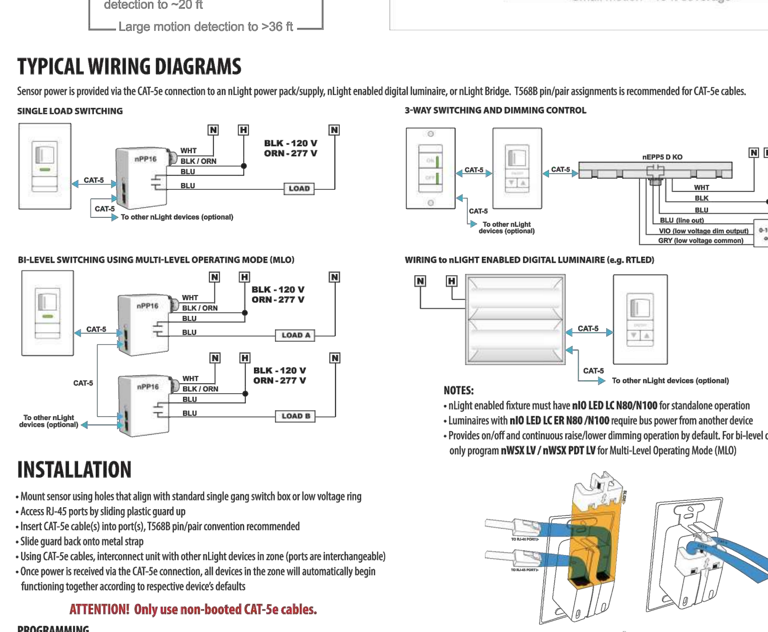
COVERAGE PATTERN

- Small Motion (e.g. hand movements) detection up to 20 ft (6.10 m)
- Large motion (e.g. walking) detection greater than 36 ft (10.97 m)
- Wall to Wall Coverage
- Passive Dual Technology (Microphonics) provides overlapping detection of human activity over the complete PIR coverage area. Advanced filtering is utilized to prevent non-occupant noises from keeping the lights on.



TYPICAL WIRING DIAGRAMS

Sensor power is provided via the CAT-5e connection to an nLight power pack/supply, nLight enabled digital luminaire, or nLight Bridge. T568B pin/pair assignments is recommended for CAT-5e cables.



NOTES:
- nLight enabled fixture must have **nIO LED LC N80/N100** for standalone operation
- Luminaires with **nIO LED LC ER N80 /N100** require bus power from another device
- Provides on/off and continuous raise/lower dimming operation by default. For bi-level operation only program **nWSX LV / nWSX PDT LV** for Multi-Level Operating Mode (MLO)

INSTALLATION

- Mount sensor using holes that align with standard single gang switch box or low voltage ring
- Access RJ-45 ports by sliding plastic guard up
- Insert CAT-5e cable(s) into port(s), T568B pin/pair convention recommended
- Slide guard back onto metal strap
- Using CAT-5e cables, interconnect unit with other nLight devices in zone (ports are interchangeable)
- Once power is received via the CAT-5e connection, all devices in the zone will automatically begin functioning together according to respective device's defaults

ATTENTION! Only use non-booted CAT-5e cables.

PROGRAMMING
Refer to included instruction card for default settings and directions on programming the wall switch sensor via the push-button. All settings can also be programmed via SensorView software

sensorswitch — **LIMITED WARRANTY:** Sensor Switch warrants these products to be free of defects in manufacture and workmanship for a period of 60 months. Sensor Switch, upon prompt notice of such defect, will, at its option, provide a Returned Material Authorization number and repair or replace returned product. **LIMITATIONS AND EXCLUSIONS:** This Warranty is in full lieu of all other representation and expressed and implied warranties (including the implied warranties of merchantability and fitness for use) and under no circumstances shall Sensor Switch be liable for any incidental or consequential property damages or losses.

Sheet#: TN-408-01

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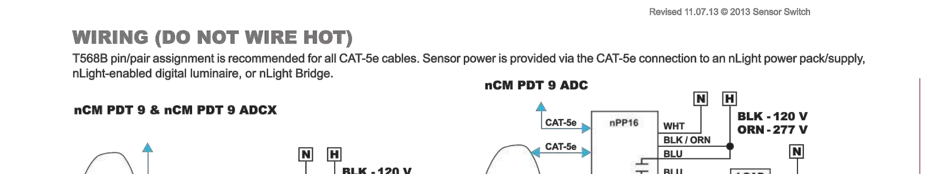
WIRING (DO NOT WIRE HOT)

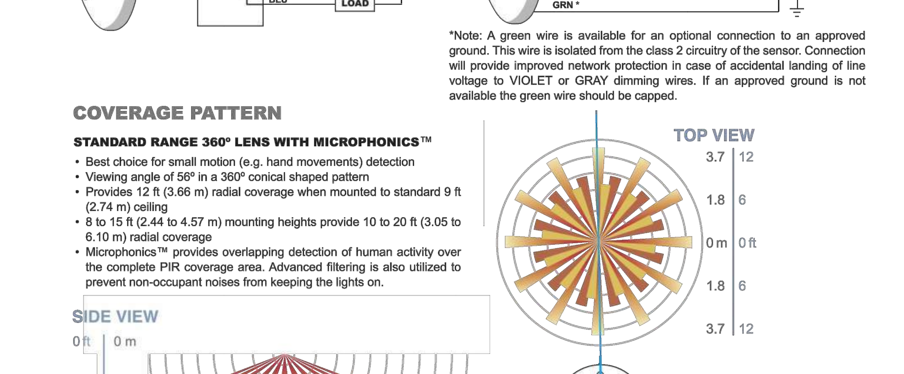
T568B pin/pair assignment is recommended for all CAT-5e cables. Sensor power is provided via the CAT-5e connection to an nLight power pack/supply, nLight-enabled digital luminaire, or nLight Bridge.



*Note: A green wire is available for an optional connection to an approved ground. This wire is isolated from the class 2 circuitry of the sensor. Connection will provide improved network protection in case of accidental landing of line voltage to VIOLET or GRAY dimming wires. If an approved ground is not available the green wire should be capped.

COVERAGE PATTERN

STANDARD RANGE 360º LENS WITH MICROPHONICS™
- Best choice for small motion (e.g. hand movements) detection
- Viewing angle of 56º in a 360º conical shaped pattern
- Provides 12 ft (3.66 m) radial coverage when mounted to standard 9 ft (2.74 m) ceiling
- 8 to 15 ft (2.44 to 4.57 m) mounting heights provide 10 to 20 ft (3.05 to 6.10 m) radial coverage
- Microphonics™ provides overlapping detection of human activity over the complete PIR coverage area. Advanced filtering is also utilized to prevent non-occupant noises from keeping the lights on.



Note: Sensor's screw axis is aligned with a long detection segment

INSTALLATION

- Mount sensor directly to a ceiling tile or a metallic grid (two self-tapping screws provided)
- Sensor's mounting holes also align with standard round fixture or single gang handy box (screws not provided)
- Interconnect unit (via RJ-45 ports) with other nLight devices in lighting zone using CAT-5e cables
- Once power is received via the CAT-5e connection, all devices in zone will automatically begin functioning together according to each device's defaults
- Sensor will detect motions crossing segments more effectively than motions parallel to beams
- For optimal detection, position sensor such that segments are crossed upon entrance and unable to view outside the space

PROGRAMMING
Refer to included instruction card for default settings and directions on programming the sensor via the push-button.

sensorswitch — An AcuityBrands Company — **WARRANTY:** Sensor Switch warrants these products to be free of defects in manufacture and workmanship for a period of 60 months. Sensor Switch, upon prompt notice of such defect, will, at its option, provide a Returned Material Authorization number and repair or replace returned product. **LIMITATIONS AND EXCLUSIONS:** This Warranty is in full lieu of all other representation and expressed and implied warranties (including the implied warranties of merchantability and fitness for use) and under no circumstances shall Sensor Switch be liable for any incidental or consequential property damages or losses.

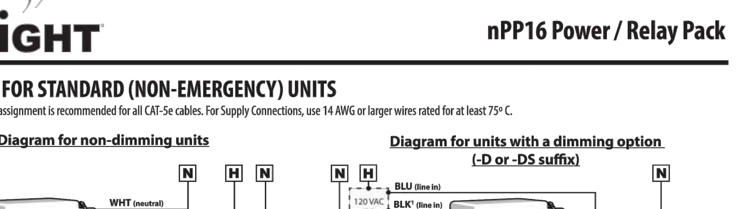
TN-101-04

nLIGHT

nPP16 Power / Relay Pack

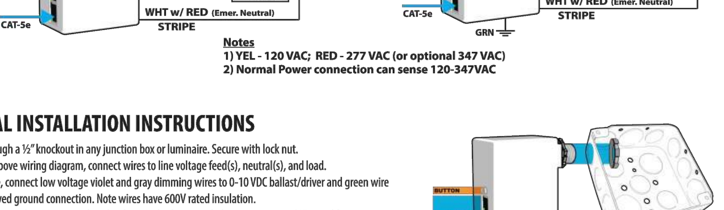
WIRING FOR STANDARD (NON-EMERGENCY) UNITS

T568B pin/pair assignment is recommended for all CAT-5e cables. For Supply Connections, use 14 AWG or larger wires rated for at least 75º C.



WIRING FOR EMERGENCY (-ER) UNITS

T568B pin/pair assignment is recommended for all CAT-5e cables. Unit powers itself but does not provide any bus power to other connected nLight devices. For Supply Connections, use 14 AWG or larger wires rated for at least 75º C.



GENERAL INSTALLATION INSTRUCTIONS

- Mount through a ½" knockout in any junction box or luminaire. Secure with lock nut.
- Following above wiring diagram, connect wires to line voltage feed(s), neutral(s), and load.
- If applicable, connect low voltage violet and gray dimming wires to 0-10 VDC ballast/driver and green wire to an approved ground connection. Note wires have 600V rated insulation.
- Interconnect unit (via RJ-45 ports) with other nLight devices in lighting zone using CAT-5e cables.

ADDITIONAL EMERGENCY (-ER) INSTRUCTIONS

PUSH-BUTTON TESTING: As long as the relay is in the open (lights off) position and normal power is present, you are able to simulate normal power being lost by pressing and releasing the unit's push-button one time. After a few seconds the relay will close for 4 seconds, then open back up and return to normal operation. A separate push-button test switch (not included) can also be wired in as shown in above diagrams.

INTERFACING WITH A FIRE ALARM PANEL: To interface unit to a fire alarm system such that the relay is overriden upon activation of the fire alarm system, the following setup must be used. The fire alarm system must provide a normally closed relay which opens when the fire alarm system is activated. This relay must be put in series with the Black power sense line on the nPP16 ER. When the normally closed relay opens, the nPP16 ER will close its relay to provide egress lighting when the fire alarm system is activated.

Catalog Number: | Date: | Project:

OVERVIEW
The nLight® AIR rPODB is a wireless, battery-powered wall switch including toggle and/or raise lower features with optional multi-pole control. It provides a user with local control of a lighting zone. A true wire-free switch, these single gang decorator style devices have soft-click buttons and a green LED indicator for each button. The rPODB wall switches communicate with other nLight AIR devices via radio frequency (RF). A basic battery-powered wall switch can work with any nLight AIR enabled fixture to provide toggle switch operation. Wall switches with the DX option have the added ability to adjust the level of any nLight AIR controlled dimmable light fixture.

FEATURES
- Powered with three off-the-shelf AAA Lithium size batteries and rated for 10 years of normal use, minimizing battery replacement. (Battery replacement with alkaline batteries does not guarantee a 10-year run time.)
- Communicates with nLight® AIR devices via radio frequency (RF) in the 900MHz spectrum
- Soft-click push-button control
- Custom button engraving at no charge (WH, IV, AL GY units only)
- 1 or 2 on/off
- 1 or 2 raise/lower
- Batteries included and preinstalled… Just unbox and mount
- Wireless multi location dimming

Warranty
Five-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

AcuityControls. nLight.

nLight® AIR rPODB: Battery powered, Wall Switch

nLight® AIR Platform

A+ Capable
This item is an A+ capable component, which has been designed and tested to provide out-of-the-box luminaire compatibility with simple commissioning, when included as part of an A+ Certified™ Solution.
To learn more about A+, visit www.acuitybrands.com/aplus.

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Note: nLight® AIR devices are only compatible with other nLight AIR enabled devices; and is not cross compatible with other nLight product lines at this time.

ORDERING INFORMATION

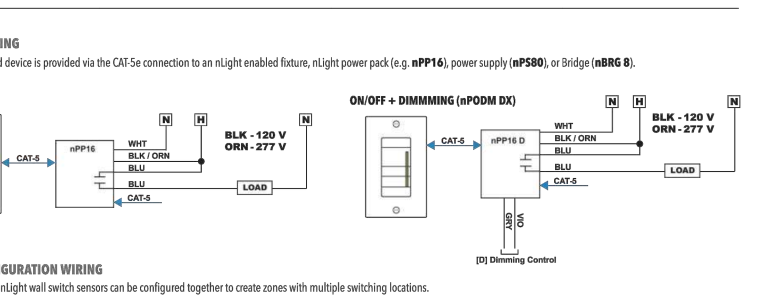
Example: RPODB WH

Series[1]	Poles & Scenes	Dimming Control	Color	
RPODB	[blank] Single Pole	[blank] On/off Control	WH White	GY Gray
RPODBZ	2P Two Pole	DX On/off + Raise/Lower Control	IV Ivory	
			AL Light Almond	

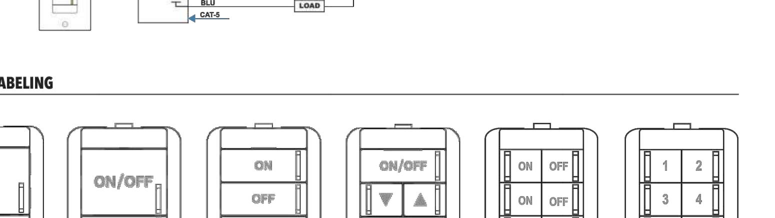
Note:
1. RPODB can control up to 128 (RES7N) fixtures in a network; RPODBZ can control up to 50 (RES7Z) fixtures in a standalone zone; RPODBZ only available in RPODBZ DX WH configuration.

WIRING

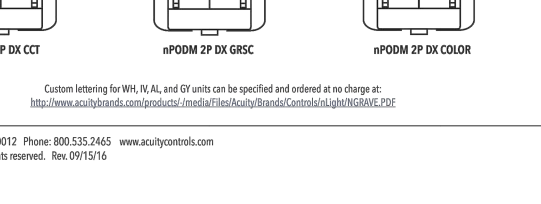
TYPICAL WIRING
Power to WallPod device is provided via the CAT-5e connection to an nLight enabled fixture, nLight power pack (e.g. **nPP16**), power supply (**nPS80**), or Bridge (**nBRG 8**).



DEFAULT LABELING



Dynamic wallpod options feature custom button names when pairing with Acuity Brands nTUNE(TM) fixtures. Reference fixture cut sheets for additional details.

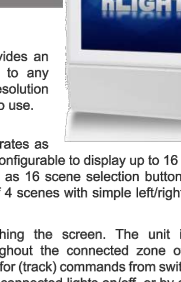


Custom lettering for WH, IV, AL, and GY units can be specified and ordered at no charge at: http://www.acuitybrands.com/products/-/media/Files/Acuity/Brands/Controls/nLight/NGRAVE.PDF

nLIGHT

nPOD GFX

GRAPHIC WALLPOD



SPECIFICATIONS

FEATURES
3.5" Full-color Touch Screen (Diagonal)
Provides up to 16 On/Off/Dim Controls
Provides up to 16 Scene Controls
Enables User Customization of all Presets and On/Off/Dim Controls
Enables Programming of Switch Tracking Channels of Devices in Zone
Mounts to a Single Gang Switch Box
Front Assessible Micro-USB Connector for Simple Laptop Connectivity
Optional Password Protection for Controls and Setup Screens
Customizable Screen Saver Image
Onboard Help Screens

PHYSICAL SPECS
SIZE 5.06" H x 3.50" W x 0.69" D (12.85 cm x 8.89 cm x 1.75 cm)
WEIGHT 6 oz
MOUNTING Single-Gang Low Voltage Switch Box or Ring
MOUNTING HEIGHT (recommended) 60 in (152 cm)
COLOR White, Ivory, Black, Light Almond, Gray
NLIGHT NETWORK CONNECTION 2 RJ-45 Ports

ELECTRICAL SPECS
INPUT VOLTAGE 15-24 VDC
POWER CONSUMPTION 60mA
WIRES None
POWER SUPPLY (included) PS-150 (347) via Terminal Connections

ENVIRONMENTAL SPECS
OPERATING TEMP 14º to 160º F (-10º to 71º C)
RELATIVE HUMIDITY 20 to 75% non-condensing
SILICONE FREE
ROHS COMPLIANT

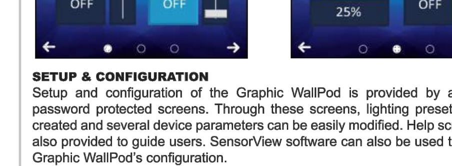
OTHER
Title 24 System Component
5 Year Warranty
Assembled in the U.S.A.

The Graphic WallPod (**nPOD GFX**) provides an elegant and sophisticated user control to any nLight controlled space. Its 3.5", high resolution touch screen is easy to view and simple to use.

CONTROL FUNCTIONALITY
The Graphic WallPod fundamentally operates as a multi-channel user control device. It is configurable to display up to 16 controls (either on/off, or on/off/dim style) as well as 16 scene selection buttons. Each screen displays two controls or groups of 4 scenes with simple left/right paging style navigation between screens.

A control is activated simply by touching the screen. The unit instantly communicates the desired action throughout the connected zone of nLight devices. All devices programmed to listen for (track) commands from switches on a respective channel will react by turning connected lights on/off, or by dimming them accordingly. To facilitate simple commissioning of a zone, the Graphic WallPod automatically discovers and displays a list of all devices with relays and dimming outputs within its zone. The switch tracking settings on these devices can then be modified from the Graphic WallPod.

Lighting presets consist of a combination of user configured settings (on/off or dim level) for each control that can be activated via a single button. Pressing the applicable button then instantly communicates the group of presets out to the devices in the zone.



SETUP & CONFIGURATION
Setup and configuration of the Graphic WallPod is provided by accessing password protected screens. Through these screens, lighting presets can be created and several device parameters can be easily modified. Help screens are also provided to guide users. SensorView software can also be used to edit the Graphic WallPod's configuration.

- Number of Controls/Channels (1-16)
- Type of Control (On/Off or On/Off/Dim)
- Screen Saver (Enable / Disable)
- Screen Saver Brightness Level %
- Screen Saver Image (none / nLight Logo / user provided .jpeg image)
- Password Controls
- Custom Name of each Control
- Screen Saver Time Out Period

ORDERING INFO nPOD GFX [POWER SUPPLY VOLTAGE] [COLOR]

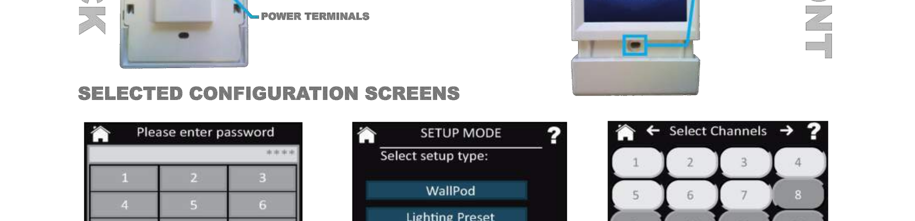
OPTIONS: VOLTAGE	COLOR	
Blank = 120/277 VAC	WH = White	GY = Gray
347 = 347 VAC	IV = Ivory	BK = Black
	AL = Light Almond	

Required power supply, PS 150 (347), is included

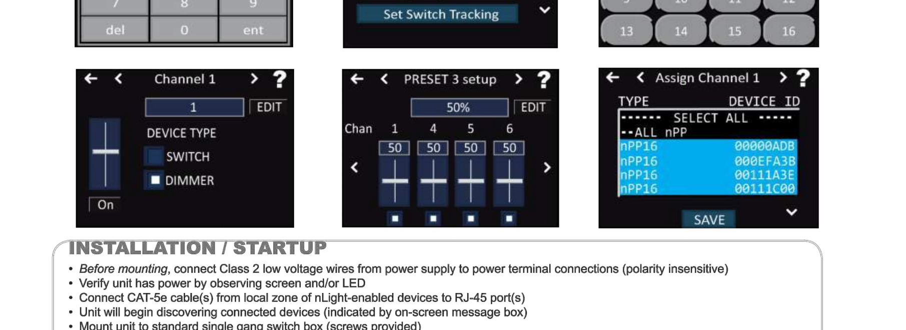
Revised 06.27.14 © 2014 Sensor Switch

HARDWARE FEATURES
There are two RJ-45 ports on the rear of the Graphic WallPod for CAT5e connection to other nLight-enabled devices. Additionally, there is a set of power terminals where low voltage power (from the provided PS 150 power supply module) is connected.

The Graphic WallPod flush mounts to a single-gang switch box. The housing has two sliding panels that cover the mounting screws, an indicator LED, a reset button, and a micro-USB style port. This port is provided as a convenient location for which to connect a laptop running the nLight SensorView software. While not needed for setup and configuration of the Graphic WallPod, SensorView is required to perform advanced configuration and firmware upgrades of devices within the Graphic WallPod's local zone. Remote access and control is available via SensorView if the zone is connected to an nLight backbone with a Gateway. **Note:** no power is used/supplied from/to the nLight bus.



SELECTED CONFIGURATION SCREENS



INSTALLATION / STARTUP
- *Before mounting*, connect Class 2 low voltage wires from power supply to power terminal connections (polarity insensitive)
- Verify unit has power by observing screen and/or LED
- Connect CAT-5e cable(s) from local zone of nLight-enabled devices to RJ-45 port(s)
- Unit will begin discovering connected devices (indicated by on-screen message box)
- Mount unit to standard single gang switch box (screws provided)
- To access configuration screens, touch lock icon in upper left. Default password is "**1234**"
- Pressing reset button twice is equivalent to repowering unit
- Press reset button three times to restart unit in screen-calibration mode

sensorswitch — An AcuityBrands Company — **WARRANTY:** Sensor Switch warrants these products to be free of defects in manufacture and workmanship for a period of 60 months. Sensor Switch, upon prompt notice of such defect, will, at its option, provide a Returned Material Authorization number and repair or replace returned product. **LIMITATIONS AND EXCLUSIONS:** This Warranty is in full lieu of all other representation and expressed and implied warranties (including the implied warranties of merchantability and fitness for use) and under no circumstances shall Sensor Switch be liable for any incidental or consequential property damages or losses.

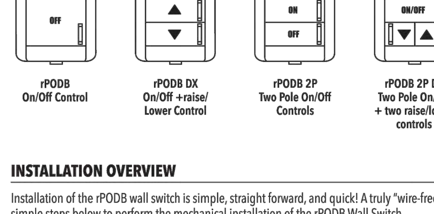
TN-504-01

SPECIFICATIONS

Dimensions	2.74" H x 1.68" W x 1.63" D (6.96 cm x 4.27 cm x 4.14 cm)
Weight	4.25 oz
Mounting	Single Gang Switch Box or Low Voltage Ring
Color	White, Ivory, Lt. Almond, Gray, Black
Operating Temperature	-40C to 60C (Indoor Use Only)
Relative Humidity	Standard: 20 to 75% non-condensing
Radio Frequency	Dual Radio: 900Mhz & 2.4GHz
RF Transmit Power	900Mhz: +20dBm; 2.4GHz: Variable
Wireless Standard	900MHz: IEEE 802.15.4-based; 2.4GHz: Version 4.0+ of the Bluetooth specification
Wireless Range	900MHz: Up to 1000 ft. (~304m) in free space/ line of sight; 600 ft to 800 ft through obstruction depending on building construction; 2.4GHz: Up to 60 ft. (~18m) in free space/ line of sight
Security	Application Data Encryption: AES-128 bit; Mutual Entity Authentication; Message Confidentiality; Message Authentication and Replay Prevention; Limited Anonymity
Regulatory Compliance	FCC, IC, RoHS
Battery Type	3 AAA Lithium (included)
Battery Life	10 years (with Lithium batteries)
Programming Tool	CLAIRITY Mobile App

CUSTOM ENGRAVING
- Default button labeling is shown on below.
- Custom lettering for WH, IV, AL, and GY units can be specified and ordered at no charge at: http://www.acuitybrands.com/-/media/Files/Acuity/Brands/Controls/nLight/NGRAVE.PDF?la=en.
- To ensure color uniformity, ordering templates facilitate specifying all buttons on a unit as custom lettered. Replacing single buttons not recommended.
- Buttons may ship separately and require field installation

DEFAULT LABELING

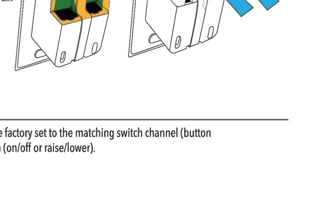


INSTALLATION OVERVIEW
Installation of the rPODB wall switch is simple, straight forward, and quick! A truly "wire-free" installation with preinstalled batteries and embeded nLight AIR radio. Follow the simple steps below to perform the mechanical installation of the rPODB Wall Switch.

Installation
1. Install the rPODB into a single gang box just like your typical wall switch
2. No wiring needed, and can be installed retainer first, or switch and retainer together
3. Check to make sure the rPODB is secure in retainer clip once installed
4. Screw down wall plate - DONE!

INSTALLATION
- Mount WallPod using holes that align with standard single gang switch box or low voltage ring
- Access RJ-45 ports by sliding plastic guard up
- Insert CAT-5e cable(s), T568B wiring convention recommended
- Slide guard back onto metal strap
- Interconnect unit with other nLight devices in lighting zone using CAT-5e cables
- Once power is received via CAT-5e connection, all devices in zone will automatically begin functioning together according to respective device's defaults

Attention! Only use non-booted CAT5e cables.



PROGRAMMING
Refer to instruction card IN-11.3 for directions on programming the sensor via the upper-most left push-button. All buttons are factory set to the matching switch channel (button 1 - channel 1, button 2 - channel 2, etc). For nPODM 4P DX, channels to be controlled are selected first, then the control button (on/off or raise/lower).

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS.

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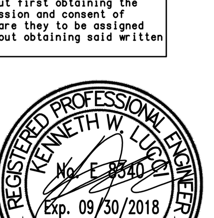

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RENOVATION

PROJECT DIRECTORY

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MECHANICAL ENGINEER:
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LANDSCAPE ARCHITECT:
XXXX

WATER SYSTEM / FIRE PROTECTION SYSTEM:
XXXXt

nLIGHT CUT SHEETS

SHEET NAME

DATE 09-03-2017

SCALE AS SHOWN

PROJECT C16 - 006

SHEET NUMBER E3.00.3 OF 00 SHEETS

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L.A.I.# 16247 PAPER SIZE 42"x30"

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Sep 03, 2017, 12:45pm
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Drafter: Lee Keener; G:\16\247\EL\Sheets\16247E300-3.dwg; DATE: MAY 19, 2017 TIME: 11:33 AM

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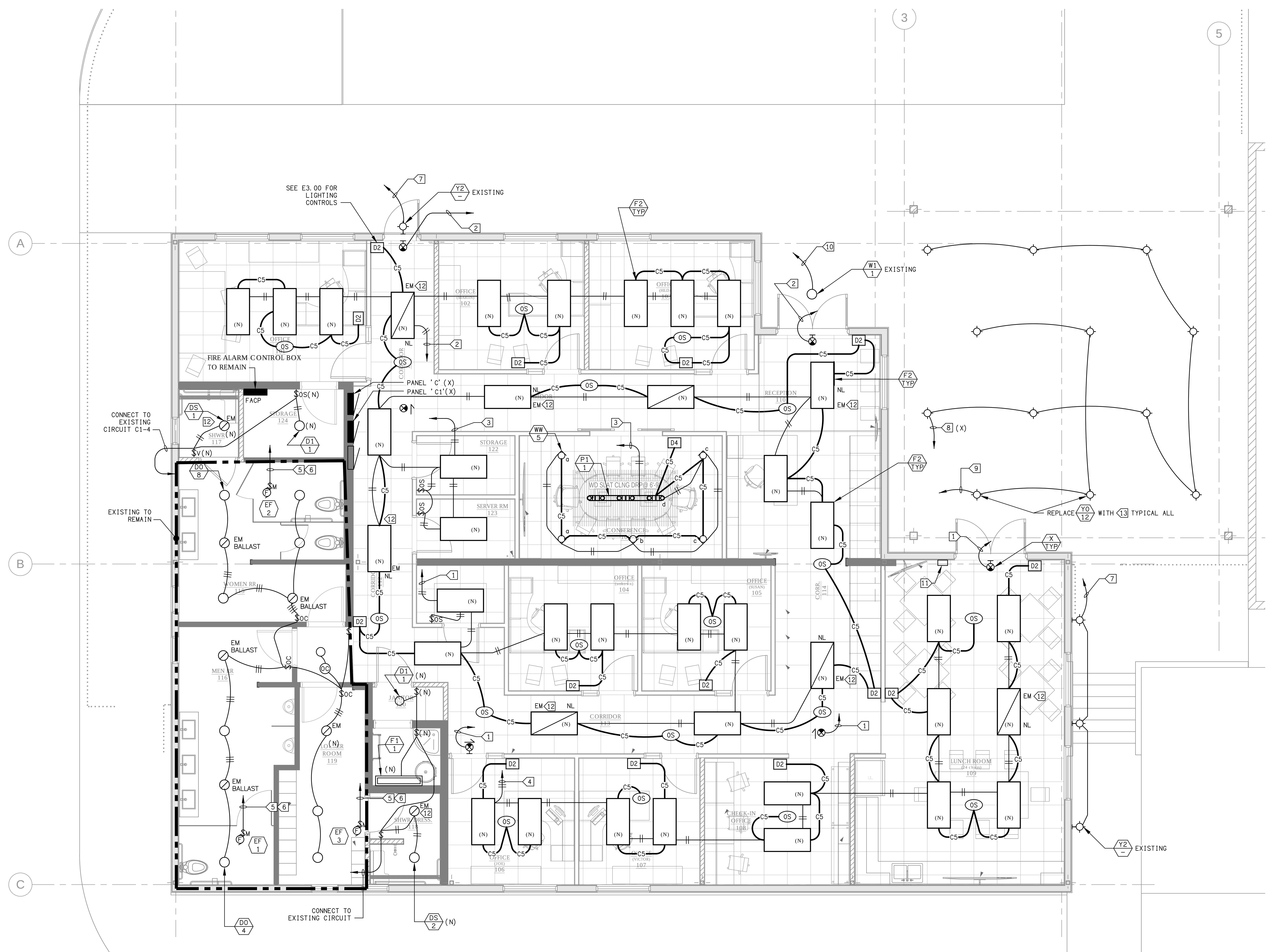
DRAFTER: Lee Keener DRAWING FILENAME: 16247E301 PATHNAME: G:\16\247\EL\Sheets DATE: 3 September 2017 TIME: 12:45 pm

SHEET NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH INSTALLATION.
2. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
3. 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
4. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
5. MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL LIGHTING HOMERUNS.
6. ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
7. CONTRACTOR SHALL PROVIDE ALL BACKING, BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
8. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
9. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
10. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.

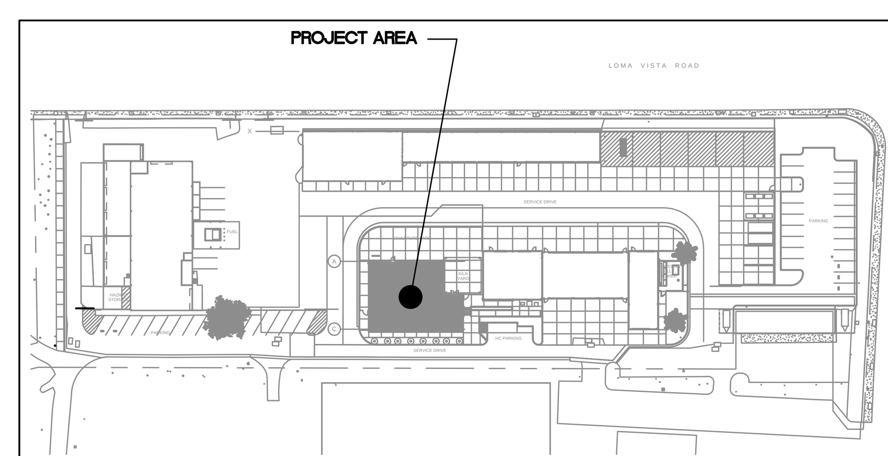
KEY NOTES:

1. C1-3.
2. C1-5.
3. C1-7.
4. C1-9.
5. C1-1.
6. WITH MOTION SENSOR.
7. C1-2 VIA SPAK.
8. C1-2 VIA LIGHTING CIRCUIT CONTROLLER B.
9. C1-2 VIA LIGHTING CIRCUIT CONTROLLER C.
10. C1-2 VIA LIGHTING CIRCUIT CONTROLLER A.
11. EXISTING EXTERIOR LIGHTING CONTROL TO REMAIN OPERATIONAL, RELOCATE AS NECESSARY.
12. PROVIDE CONSTANT "HOT" TO EM FIXTURE.
13. BEGHELLI NUV NT VLO WT4000 WBD 120-277V PK.



0 2' 4' 8' 12'
SCALE: 1/4" = 1'-0"

LIGHTING PLAN 1/E3.01
SCALE: 1/4" = 1'-0"



KEY MAP

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS.

REVISIONS	DATE	BY
△1		
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REGISTERED PROFESSIONAL ENGINEER KENNETH W. LUCCI No. E 8340 Exp. 09/30/2018 ELECTRICAL STATE OF CALIFORNIA

This project has been designed by me, or under my direct supervision.

ISSUED FOR CONSTRUCTION

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MAINTENANCE & OPERATIONS ADMIN RENOVATION

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STRUCTURAL ENGINEER:
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MECHANICAL ENGINEER:
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LANDSCAPE ARCHITECT:
XXXX

WATER SYSTEM / FIRE PROTECTION SYSTEM:
XXXXt

LIGHTING PLAN
SHEET NAME

DATE 09-03-2017

SCALE AS SHOWN

PROJECT C16 - 006

E3.01 OF 00
SHEET NUMBER SHEETS

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LA1# 16247 PAPER SIZE 42"x30"

DRAFTER: Lee Keener DRAWING FILENAME: 16247E401 PATHNAME: G:\16\247\EL\Sheets DATE: 3 September 2017 TIME: 12:46 pm

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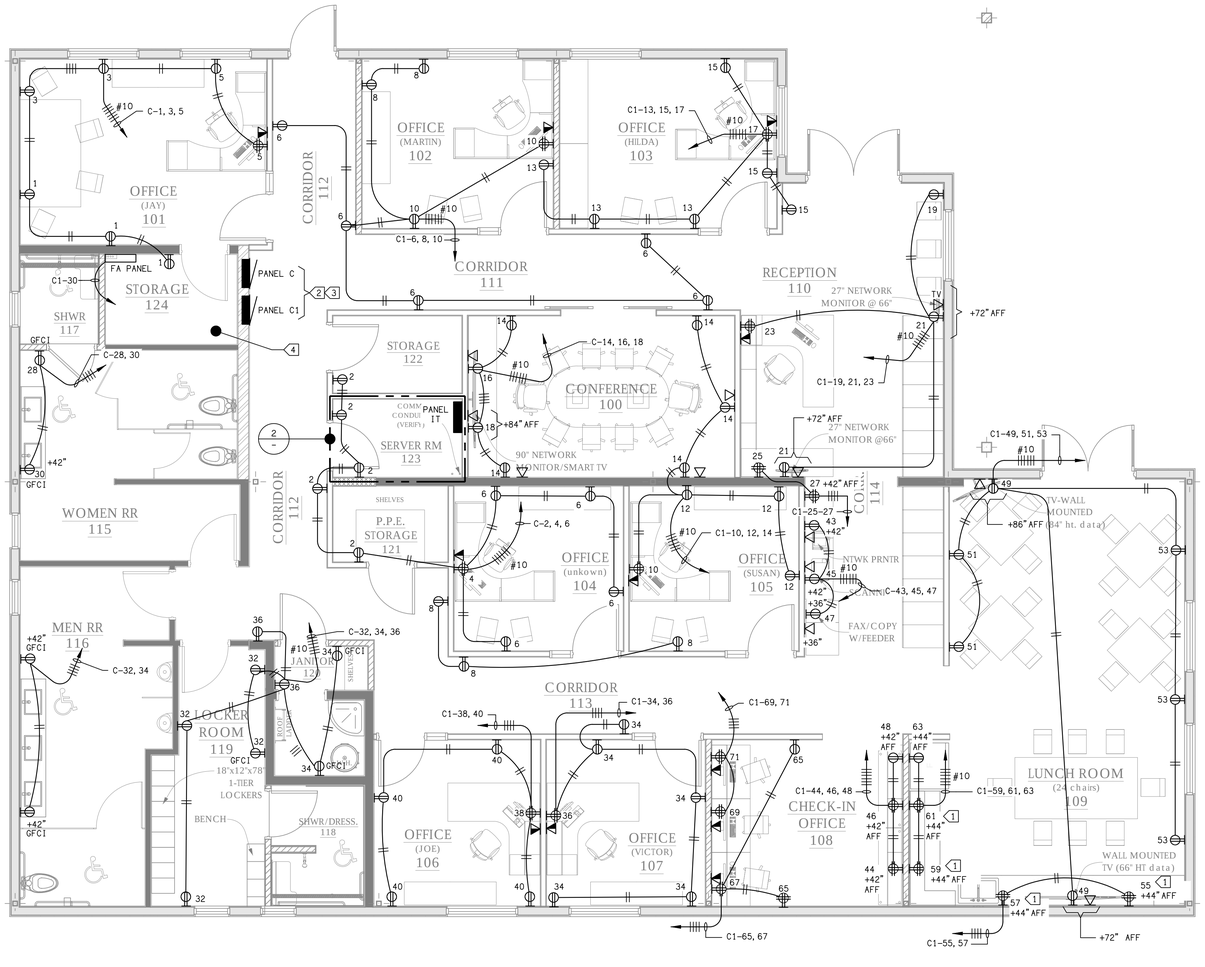

SCALE: 1/4"=1'-0"

POWER & COM PLAN 1 / E4.01
SCALE: 1/4" = 1'-0"

SHEET NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
2. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
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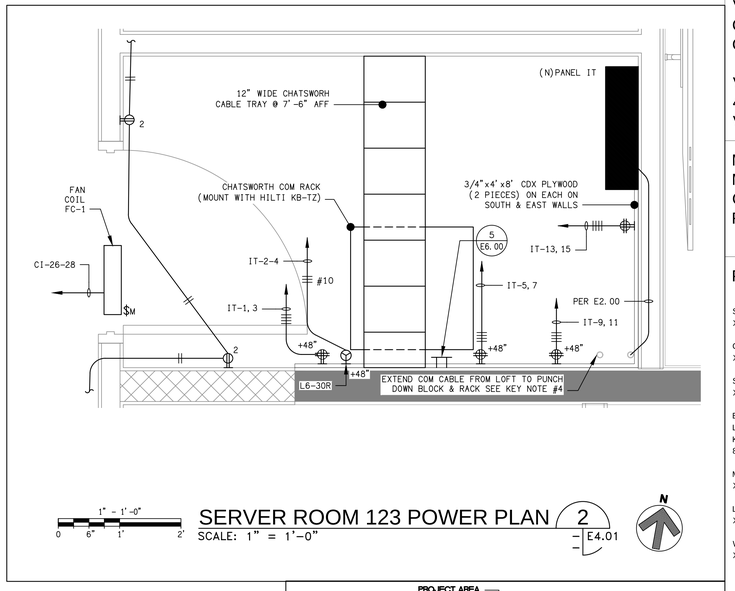
4. 3/4" CONDUIT MINIMUM U. O. N.
5. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
6. ALL DEVICES WITH IG SUBSCRIPT, ARE ISOLATED GROUND RECEPTACLES WITH SEPARATE IG CONDUCTOR TO PANELBOARD.
7. PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
8. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
9. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

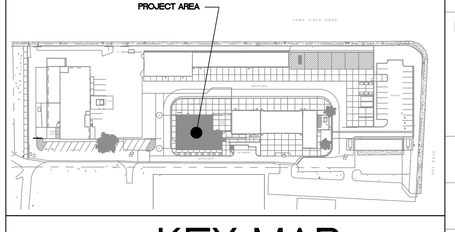
KEY NOTES:

1. GFCI RECEPTACLE.
2. REINSTALL PANEL COVERS ON ALL PANELS AFTER REWORK OF WALL.
3. REMOVE EXTRA GROUND BOND AT BOTTOM OF C1.
4. COM CABLE IS EXTRA LONG & ON TOP OF THIS ROOM AREA. PULL CABLE THRU EXISTING CONDUIT IN WALL INTO SERVER ROOM & "PUNCH DOWN" AS REQUIRED.



1" = 1'-0"

SERVER ROOM 123 POWER PLAN 2 / E4.01
SCALE: 1" = 1'-0"



KEY MAP

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MECHANICAL ENGINEER:
XXXX

LANDSCAPE ARCHITECT:
XXXX

WATER SYSTEM / FIRE PROTECTION SYSTEM:
XXXXt

POWER & COM PLAN

SHEET NAME

DATE 09-03-2017

SCALE AS SHOWN

PROJECT C16 - 006

E4.01 SHEET NUMBER

00 OF SHEETS

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L.A.I.# 16247 PAPER SIZE 42"x30"

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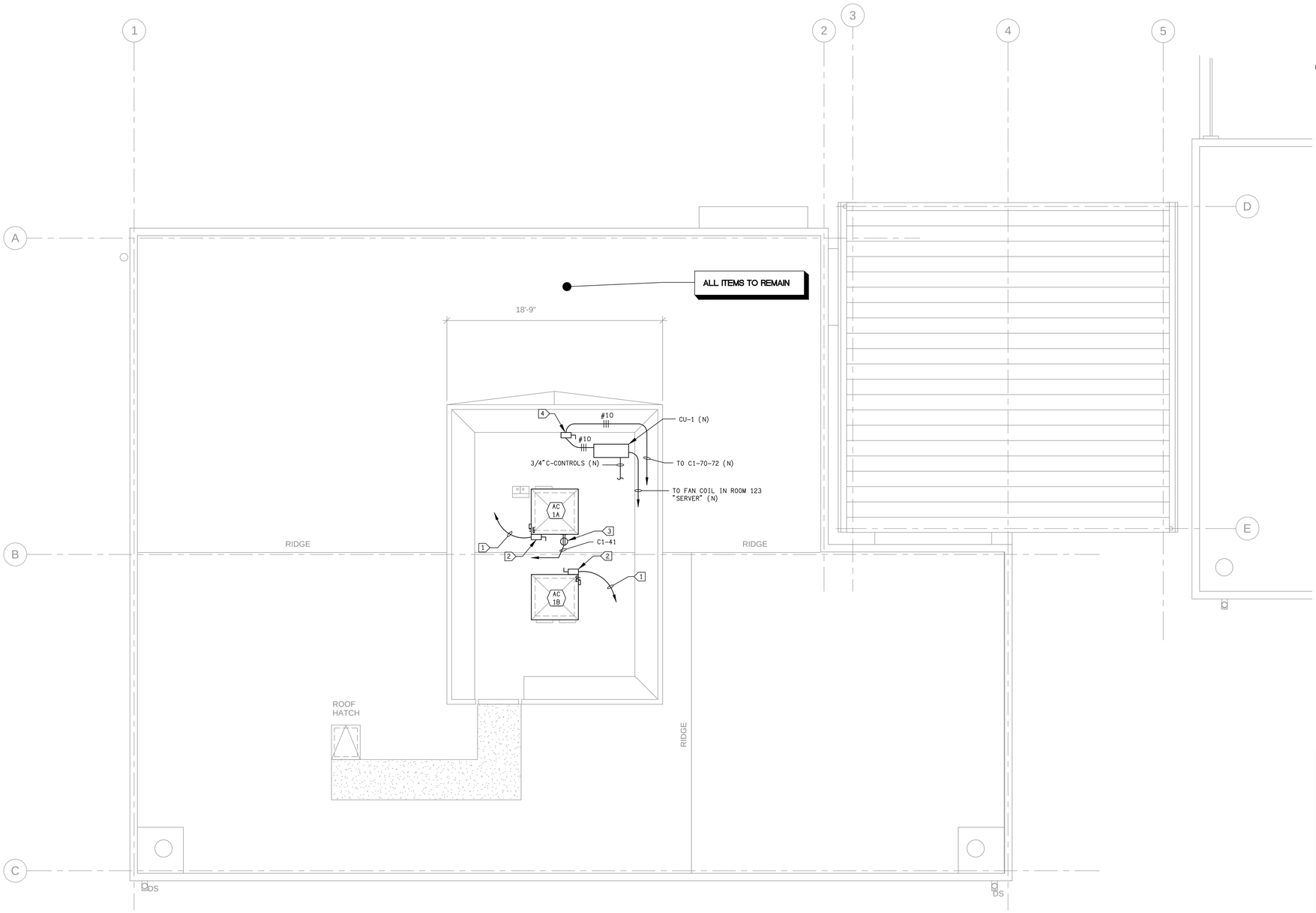


0 2' 4' 8' 12'

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

ROOF ELECTRICAL PLAN

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

1 / E4.20

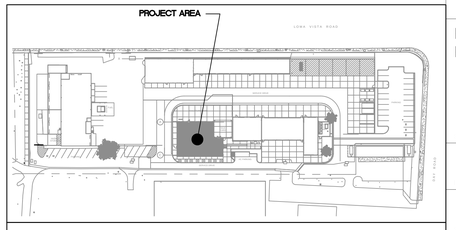
N

SHEET NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
3. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
4. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
5. 3/4" CONDUIT MINIMUM U. O. N.
6. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
7. ALL DEVICES WITH IG SUBSCRIPT, ARE ISOLATED GROUND RECEPTACLES WITH SEPARATE IG CONDUCTOR TO PANELBOARD.
8. PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
9. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

KEY NOTES:

(X) 1 FEEDER AND DISCONNECT FOR MECHANICAL EQUIPMENT.
(X) 2 3/4"C & CONTROLS.
(X) 3 W.P. GFCI.
(N) 4 30A, 2POLE, 240VAC NEMA 3R DISCONNECT WITH 20A FRN-RK FUSES.



KEY MAP

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS.

REVISIONS	DATE	BY
1		

ROY E COLBERT

ARCHITECTURE
PLANNING
DESIGN

353 SAN JON ROAD
VENTURA, CA 93001

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Web Site http://www.lucciand.com

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REGISTERED PROFESSIONAL ENGINEER
KENNETH W. LUCCI
No. E 8840
Exp. 09/30/2018
ELECTRICAL
STATE OF CALIFORNIA

This project has been designed by me, or under my direct supervision.

ISSUED FOR CONSTRUCTION

VENTURA COUNTY
COMMUNITY
COLLEGE DISTRICT

VENTURA COLLEGE
4667 Telegraph Road
Ventura, CA 93003

M&O:
MAINTENANCE &
OPERATIONS ADMIN
RENOVATION

PROJECT DIRECTORY

SOILS ENGINEER / SEPTIC SYSTEM:
XXXX

CIVIL ENGINEER:
XXXX

STRUCTURAL ENGINEER:
XXXX

ELECTRICAL ENGINEER:
LUCCI & ASSOCIATES
KEN LUCCI
805/389.6520

MECHANICAL ENGINEER:
XXXX

LANDSCAPE ARCHITECT:
XXXX

WATER SYSTEM / FIRE PROTECTION SYSTEM:
XXXXt

ROOF ELECTRICAL
PLAN

SHEET NAME

DATE 09-03-2017

SCALE AS SHOWN

PROJECT C16 - 006

E4.20 SHEET NUMBER 00 OF SHEETS

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Drafter: Lee Keener (G:\16\247\EL\Sheets\16247E420.dwg DATE: JUL 05, 2017 TIME: 3:27 PM

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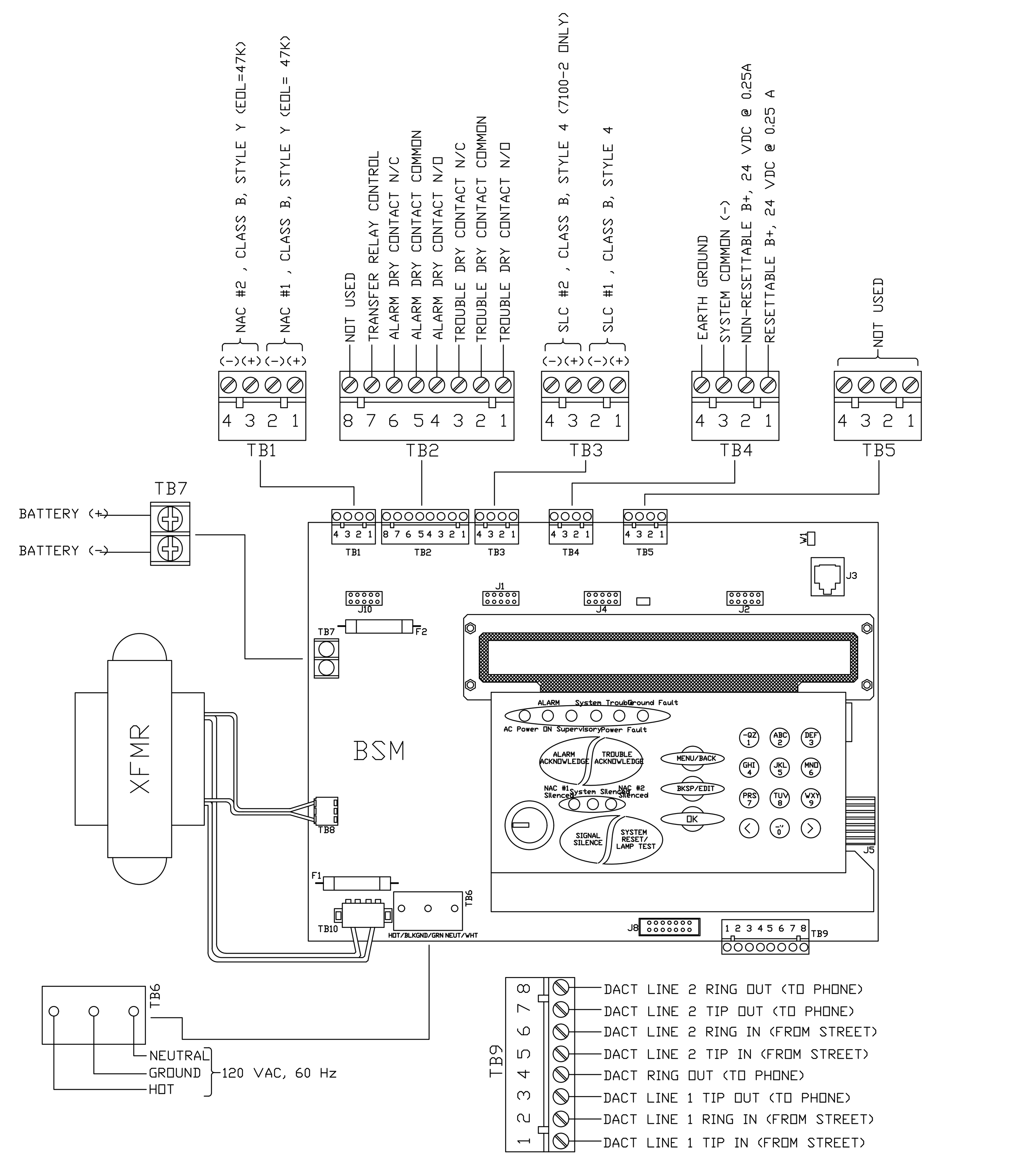
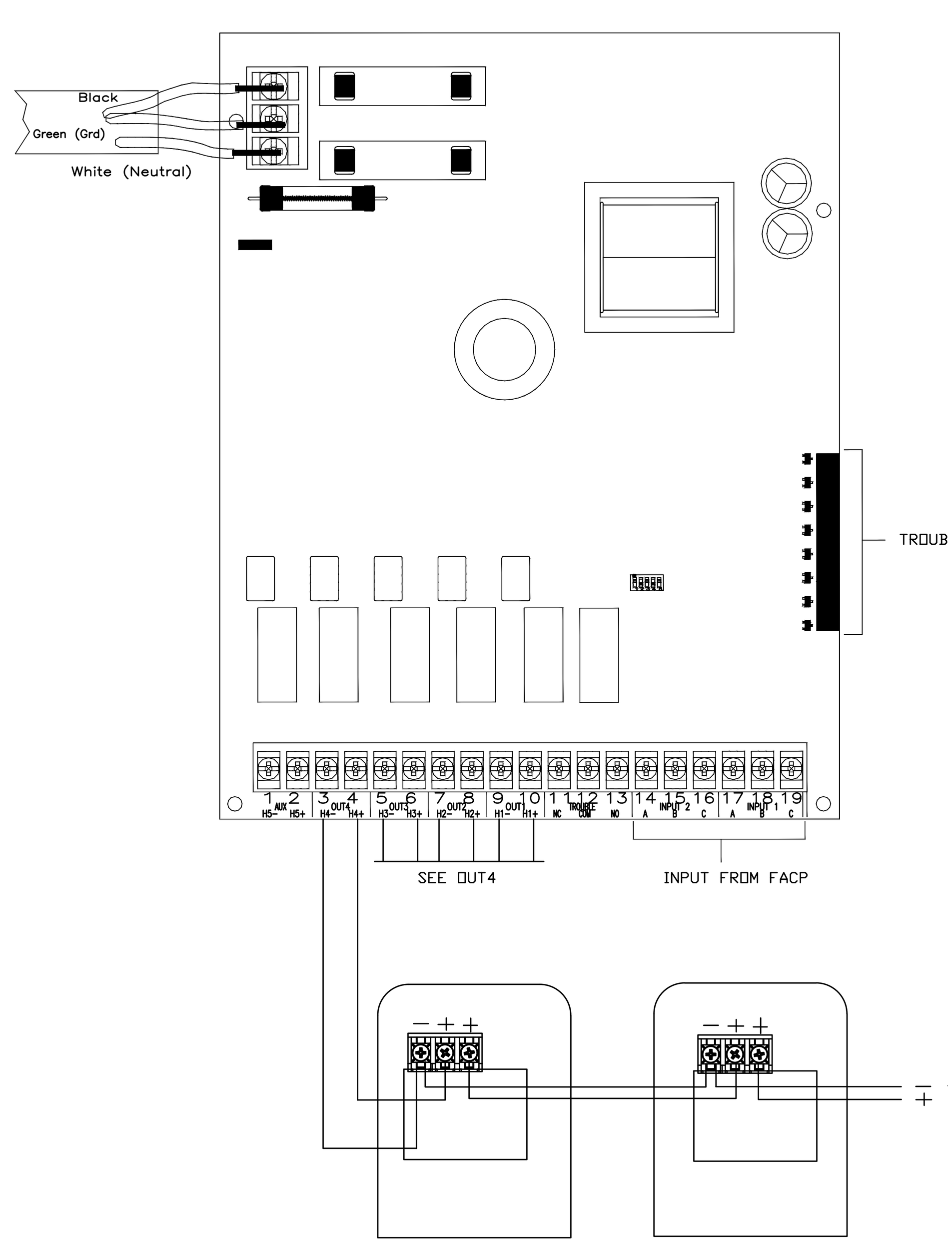
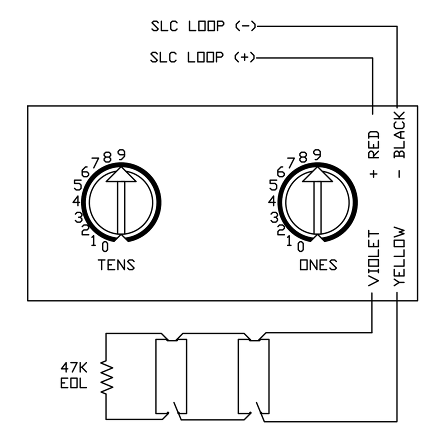


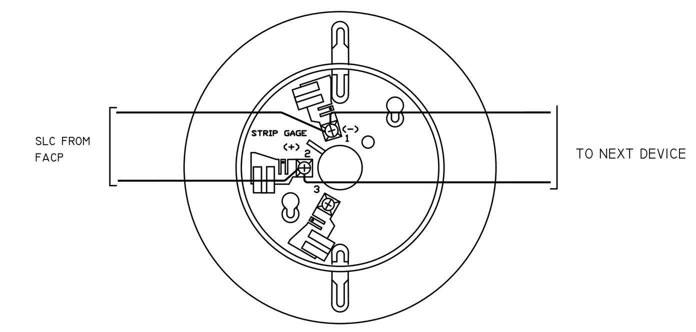
1 FIRE ALARM CONTROL PANEL WIRING DETAIL



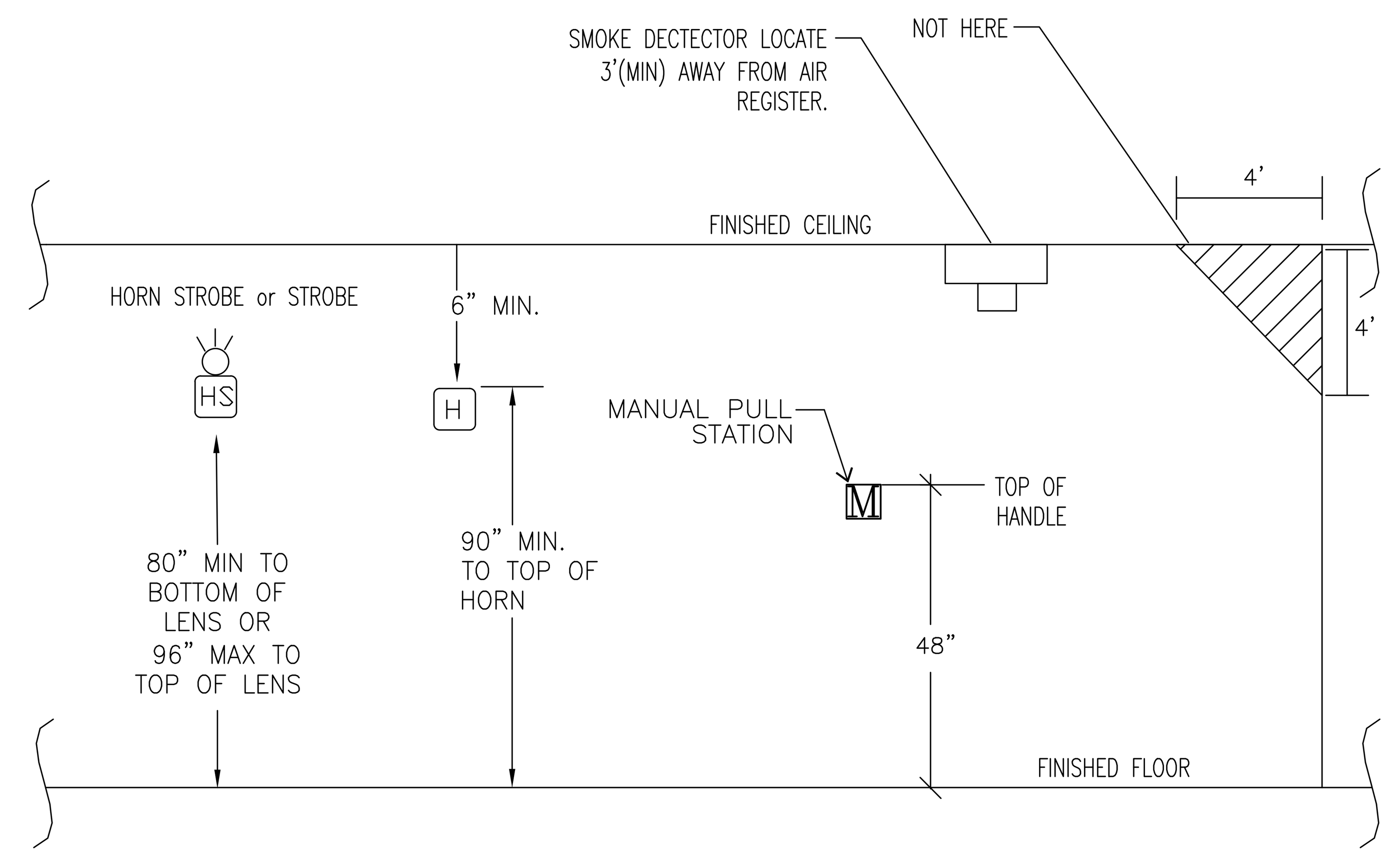
2 GFPS-6 AMP POWER SUPPLY AND HORN/STROBE WIRING DETAIL



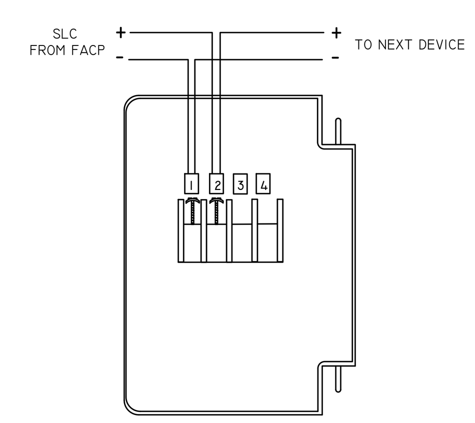
3 ADDRESSABLE MONITOR MODULE WIRING DETAIL



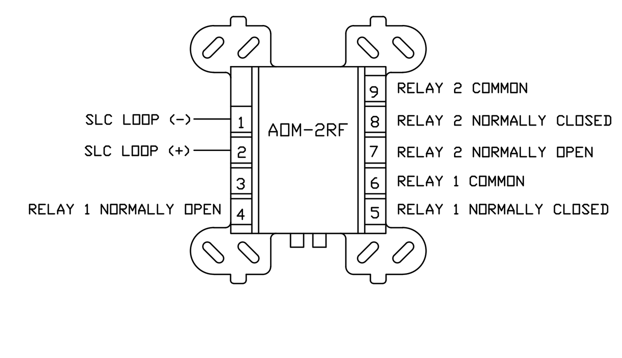
4 SMOKE DETECTOR WIRING DETAIL



5 MOUNTING HEIGHT DETAIL

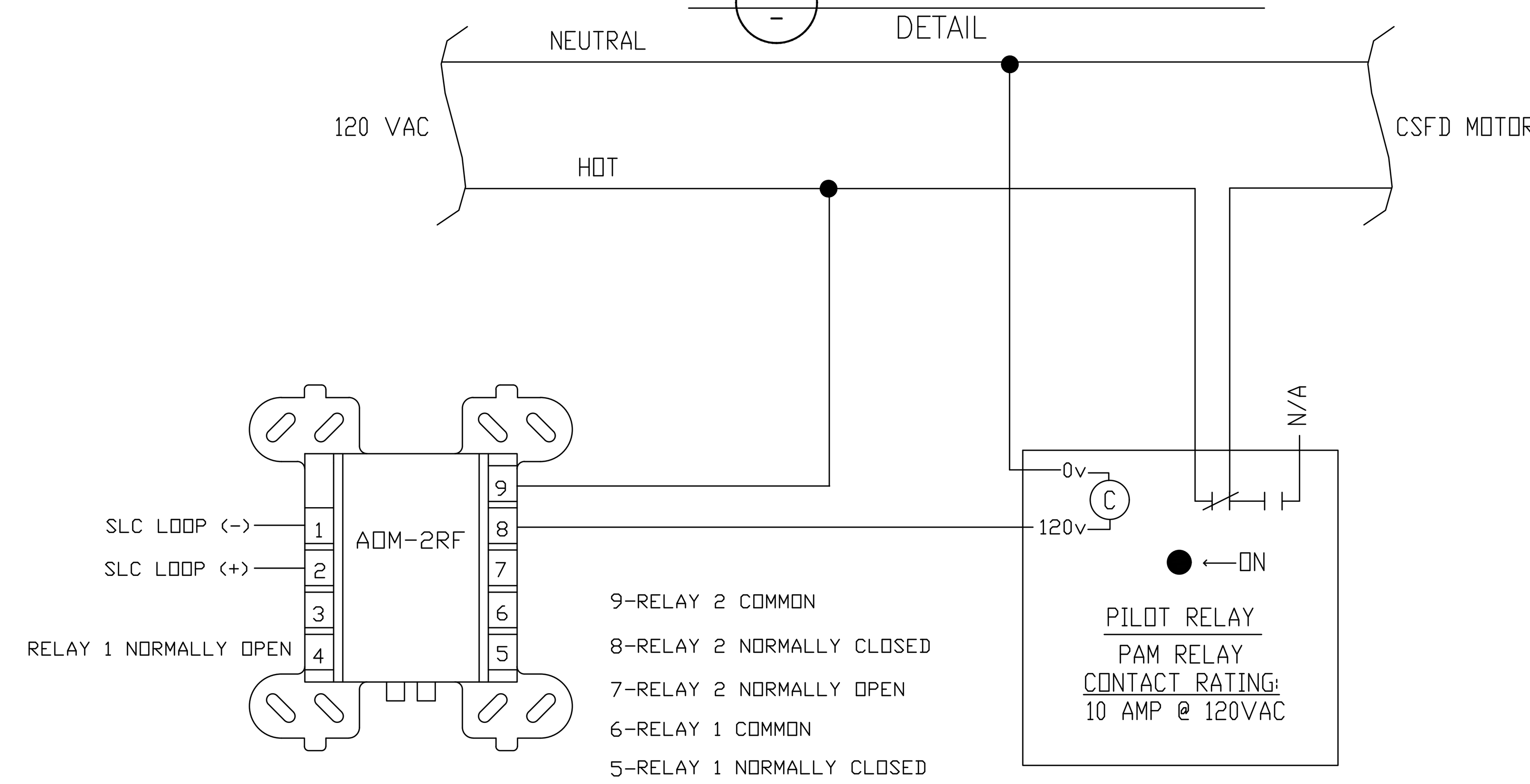


6 MANUAL PULL STATION WIRING DETAIL



7 ADDRESSABLE RELAY WIRING DETAIL

6 MOTOR CONTROL DETAIL



APPLICABLE CODES and STANDARDS

LIST OF 2016 CALIFORNIA CODE OF REGULATIONS (C.C.R.):

Applicable Code as of January 1, 2017

Part 1 2016 California Building Standards Administrative Code, Title 24 C.C.R.
Part 2 2016 California building Code, Title 24 C.C.R.
(2016) International Building Code of the International Code Council, with California Amendments)
Part 3 2016 California Electrical Code, Title 24 C.C.R.
(2016 National Electrical Code of the National Fire Protection Association, NFPA)
Part 4 2016 California Mechanical Code, Title 24 C.C.R.
(2016 Uniform Mechanical Code of the International Association of Plumbing and Mechanical Officials, IAPMO)
Part 5 2016 California Plumbing Code, Title 24 C.C.R.
(2016 Uniform Plumbing Code of the International Association of Plumbing and Mechanical Officials, IAPMO)
Part 6 2016 California Energy Code, Title 24 C.C.R.
Part 7 *currently vacant*
Part 8 2016 California Historical Building Code, Title 24 C.C.R.
Part 9 2016 California Fire Code, Title 24 C.C.R.
(2016 International Fire Code of the International Code Council)
Part 10 2016 California Existing Building Code, Title 24 C.C.R.
(2016 International Existing Building Code of the International Code Council, with amendments)
Part 11 2016 California Green Building Standards Code (CalGreen Code), Title 24 C.C.R.
Part 12 2016 California Referenced Standards Code, Title 24 C.C.R.

PARTIAL LIST OF APLLICABLE STANDARDS:

2016 California Building code (for SFM) Referenced Standards Chapter 35

NFPA 13	Automatic Sprinkler Systems (California Amended)	2016 Edition
NFPA 14	Standpipe Systems (California Amended)	2016 Edition
NFPA 17	Dry Chemical Extinguishing Systems	2016 Edition
NFPA 17A	Wet Chemical Extinguishing Systems	2016 Edition
NFPA 20	Stationary Pumps	2016 Edition
NFPA 24	Private Fire Service Mains (California Amended)	2016 Edition
NFPA 72	National Fire Alarm Code (California Amended) (Note: See UL Standard 1971 for "Visual Devices")	2016 Edition
NFPA 80	Fire Door and Other Opening Protectives	2016 Edition
NFPA 253	Critical Radiant Flux of Floor Covering Systems	2016 Edition
NFPA 2001	Clean Agent Fire Extinguishing Systems	2016 Edition

FIRE ALARM GENERAL NOTES

1. Building is fully sprinklered and monitored by a listed Central Monitoring Agency
2. Replacement of existing fire alarm system with new GamewellFCI Fire Alarm System.
3. All new devices shall be approved and listed by the California State Fire Marshall
4. Upon completion installer supplies owner with operating manuals, as-built drawings, and site specific feild configuration programs

SCOPE OF WORK

1. Install new addressable Fire Alarm System.
2. Install new conduit and wiring as neccassary to support new Fire Alarm System.
3. Fire Alarm System to provide/monitor contacts for the following:
   - Automatic Smoke/Heat Detectors
   - Sprinkler Waterflow and Tamper
   - Manual Pull Station
   - DACT
4. The following items are to be provided by others for monitoring/use of by the Fire Alarm System:
   - Dedicated 120 VAC
   - 2 Analog phone lines
   - All required Automatic Fire Sprinkler flow and tamper switch's

COMPLETE BUILDING FIRE ALARM SYSTEM

SEQUENCE OF OPERATIONS

		A: ACTUATE COMMON ALARM SIGNAL INDICATOR	B: ACTUATE AUDIBLE ALARM SIGNAL	C: ACTUATE COMMON SUPERVISORY SIGNAL	D: ACTUATE COMMON TROUBLE SIGNAL	E: ACTUATE COMMON ALARM SIGNAL INDICATOR	F: DISPLAY CHANGE OF STATUS MESSAGE ON LCD DISPLAY	G: ACTUATE BUILDING GENERAL ALARM SIGNALS	H: ACTUATE LOCALIZED ALARM	I: TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION	J: 120V SPRINKLER BELL	K: SYSTEM WILL BE 100% OPERATIONAL ON BATTERY BACKUP	L: NOT USED	M: NOT USED	N: CLOSES DURING SMOKE/HEAT DETECTION OR WATER FLOW & SHUTS DOWN HVAC UNITS
1	MANUAL PULL STATIONS	●	●					●	●		●				
2	SMOKE DETECTORS	●	●					●	●		●				
3	HEAT DETECTORS	●	●					●	●		●				
4	WATER FLOW SWITCH	●	●					●	●		●	●			
5	TAMPER SWITCH			●				●							
6	DUCT DETECTOR			●	●			●		●					
7	FIRE ALARM SYSTEM AC POWER FAIL					●	●	●							
8	FIRE ALARM SYSTEM LOW BATTERY					●	●	●							

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS.

REVISIONS	DATE	BY
1		

ROY E COLBERT

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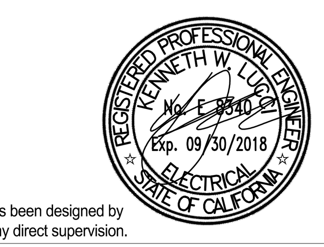

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ISSUED FOR CONSTRUCTION

VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

VENTURA COLLEGE
4667 Telegraph Road
Ventura, CA 93003

M&O:
MAINTENANCE & OPERATIONS ADMIN RENOVATION

PROJECT DIRECTORY

SOILS ENGINEER / SEPTIC SYSTEM:
XXXX

CIVIL ENGINEER:
XXXX

STRUCTURAL ENGINEER:
XXXX

ELECTRICAL ENGINEER:
LUCCI & ASSOCIATES
KEN LUCCI
805/389.6520

MECHANICAL ENGINEER:
XXXX

LANDSCAPE ARCHITECT:
XXXX

WATER SYSTEM / FIRE PROTECTION SYSTEM:
XXXXt

FIRE ALARM DETAILS
SHEET NAME

09-03-2017
DATE

AS SHOWN
SCALE

C16 - 006
PROJECT

E5.00 00
SHEET NUMBER OF SHEETS

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FIRE ALARM EQUIPMENT LIST

SYMBOL	MODEL NO	DESCRIPTION	MANUFACTURE	CSFM. NO.	MOUNTING	BACKBOX
FACP	7100-1	FIRE ALARM CONTROL PANEL	GAMEWELLFCI	7165-1703:0105	WALL	PROVIDED
RPS	GFPS-6	NAC EXPANDER BUILT IN SYNCHRONIZATION	FCI	7300-1703:0167		
ANN	LCD-7100	FIRE ALARM ANNUNCIATOR PANEL	FCI	7165-1703:1025	WALL 60" ℄	
M	MS-7AF	ADDRESSABLE PULL STATION	FCI	7150-1703:0109	WALL	4"S x 1-1/2"D BOX
	ASD-PL2F	PHOTOELECTRIC SMOKE DETECTOR	FCI	7272-1703:0121	CEILING/WALL	4"S x 1-1/2"D BOX W/ADB-FL BASE
F	VSR	WATERFLOW SWITCH FBO W/ MONITOR MODULE	POTTER	7770-0328:1001	ON UNIT RISER	4"S x 1-1/2"D BOX
T	AMM-2F	TAMPER SWITCH FBO W/ MONITOR MODULE	FCI	7300-1703:0102		
TS	P2R	MULTI-CNDL WALL HORN/STROBE 15/30/75/110cd	SYSTEM SENSOR	7125-1653:0188	WALL @ +80" AFF TO +96" AFF	
WH	HRK	WEATHER PROOF HORN		7135-1653:11879	WALL @ +90" AFF	WPBB-R
⊗		FIRE SPRINKLER RISER				
⊠		JUNCTION BOX				

System Current Draw

Gamewell FCI By Honeywell

7100 Series Fire Alarm Control Panel

Device	Qty		Standby Current Draw	Standby	Qty		Alarm Current Draw	Alarm
	Total Standby			0.122 A	Total Alarm			0.759 A
1. System								
Basic System Module, 1or 2 SLC	1	x	0.06500	0.06500	1	x	0.08500	0.08500
Optional Remote Serial Annunciator (LCD-7100)	1	x	0.05000	0.05000	1	x	0.07500	0.07500
2. Sensors								
ASD-PL2F Smoke Detector	22	x	0.00030	0.00660	22	x	0.00650	0.14300
3. Modules								
MS-7AF	2	x	0.00030	0.00060	2	x	0.00700	0.01400
4. Notification Appliances								
P2R110	2	x	0.00000	0.00000	2	x	0.22100	0.44200
	0	x	0.00000		0	x	0.00000	
			Total Standby Load:	0.122 A			Total Alarm Load:	0.759 A

System Power Requirements

Gamewell FCI By Honeywell

7100 Series Fire Alarm Control Panel

Secondary Load Requirements 11.46 Amp Hours

Total Secondary Load from the calculation table below.

Current Draw		Time (hours)	Total (AH)
Standby Load	x	Required Standby Time	
0.157 A		60 hours	9.42
Alarm Load	x	Required Alarm Time (hours)	
0.759 A		0.166 hours	0.13
		Total Secondary Load	9.55
		Derating factor	x 1.20
		Secondary Load Requirements	11.46 AH

Battery Selection 12.00 Amp Hours

VOLTAGE DROP CALCULATIONS

MAINTENANCE & OPERATIONS NAC #1

Total CKT distance in Feet (D) =	240
Total CKT load in Amps (L) =	0.981
Constant DC voltage supplied (K) =	24
Ohms per 1000' from NEC 9.8 (R) =	3.26

10 awg = 1.29
12 awg = 2.05
14 awg = 3.26
16 awg = 5.29
18 awg = 8.45

D x L x R / 1000 = Voltage Drop
(VD / K) x 100 = Voltage Drop %
K - VD = End of Line Voltage

Voltage Drop	Voltage Drop %	EOLV
0.768	3.198	23.232

System Current Draw - GFPS-6

Standby	0.075 A
Alarm	2.213 A

Device	C1 - Standby Current Qty		Draw	Standby	C2 - Alarm Current Qty		Draw	Alarm
1. System Modules								
Distributed Power Module (DPM)	1	x	0.07500	0.07500	1	x	0.20500	0.20500
NAC 1 and 2 – Class B	1	x	0.00000	0.00000	2	x	0.05000	0.10000
NAC 3 and 4 – Class B	1	x	0.00000	0.00000	2	x	0.05000	0.10000
External Load A+A- 24VDC	0	x	0.00000		0	x	0.00000	
2. NAC #1								
P2R15	2	x	0.00000	0.00000	2	x	0.09100	0.18200
P2R30	5	x	0.00000	0.00000	5	x	0.11600	0.58000
P2R75	0	x	0.00000		0	x	0.17600	
SR15	13	x	0.00000	0.00000	13	x	0.06600	0.85800
SR30	2	x	0.00000	0.00000	2	x	0.09400	0.18800
SR75	0	x	0.00000		0	x	0.15800	
P2R110	0	x	0.00000		0	x	0.22100	
	0	x	0.00000		0	x	0.00000	
	NAC #1 Totals (Max 3.0 Amps):			0.00000				1.80800
Other compatible devices	0	x	0.00000		0	x	0.00000	
Other compatible devices	0	x	0.00000		0	x	0.00000	
Other compatible devices	0	x	0.00000		0	x	0.00000	
	Total Standby Load:			0.075	Total Alarm Load:			2.213

GFPS-6 Battery Calcs

Standby Load 0.075 Amps

Current load on the primary power supply during non-alarm conditions.

Alarm Load 2.113 Amps

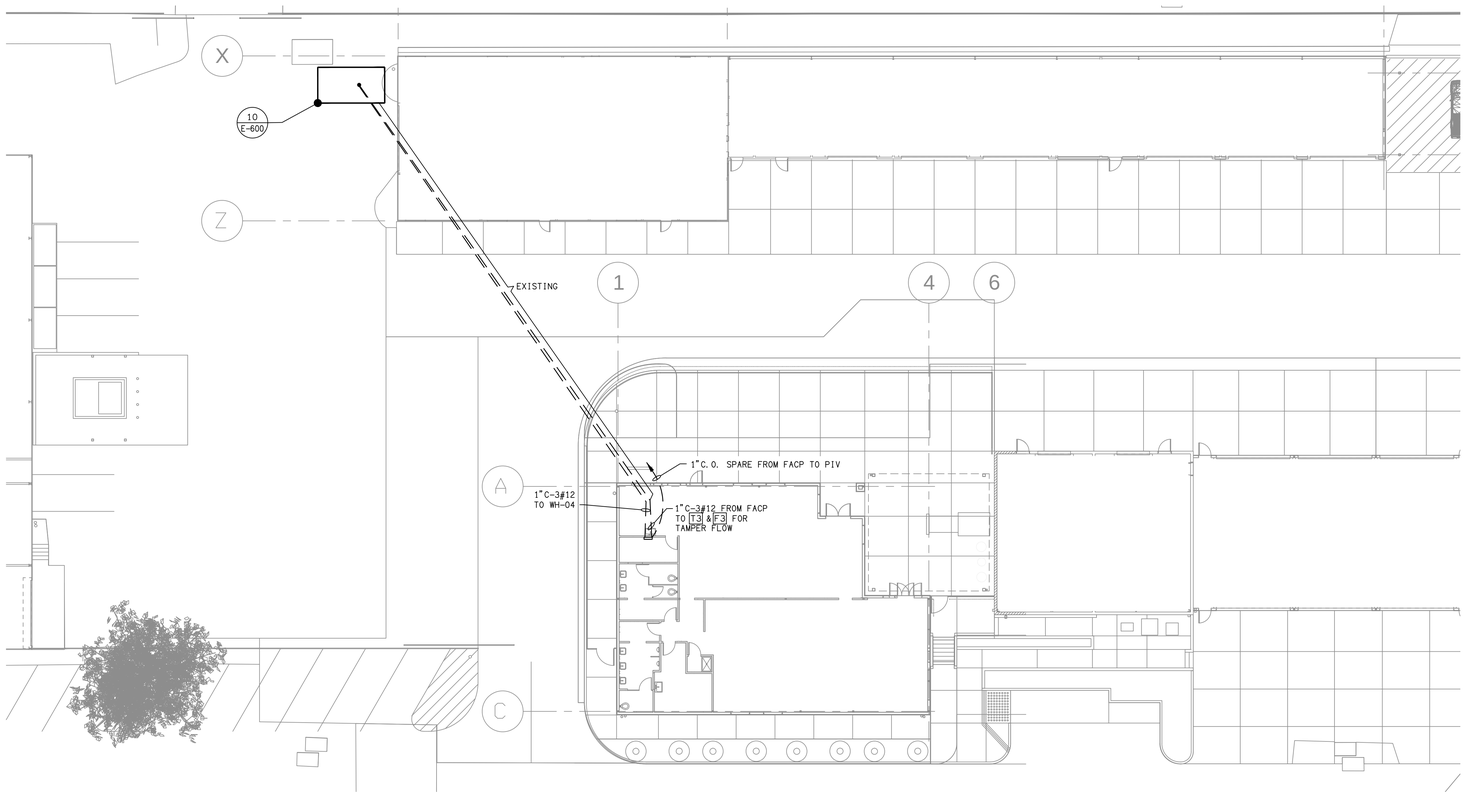
Current load on the primary power supply during alarm conditions.

Load Requirements 5.82 Amp Hours

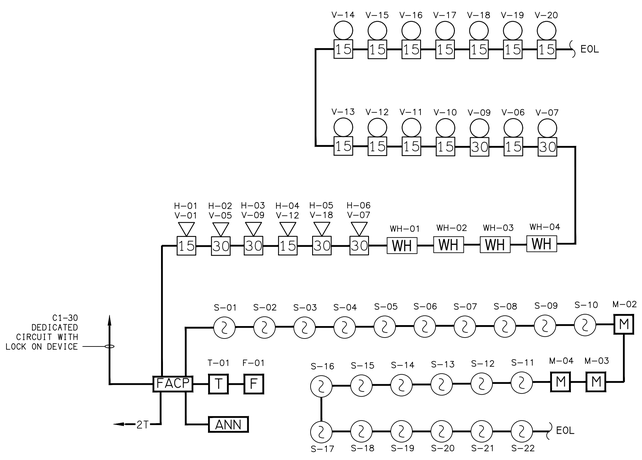
Total Secondary Load from the calculation table below.

Current Draw		Time (hours)	Total (AH)
Standby Load	x	Required Standby Time	
0.075 A		60 hours	4.50
Alarm Load	x	Required Alarm Time (hours)	
2.113 A		0.167 hours	0.35
		Total Secondary Load	4.85
		USA / Canada Derating factor	x 1.2
		Secondary Load Requirements	5.82

Battery Selection 7 Amp Hours



PARTIAL EXISTING CONDITION SITE PLAN 2 E5.01
SCALE: 1"=15'-0"



RISER DIAGRAM 1 E5.01
SCALE: NONE

COMPLETE BUILDING FIRE ALARM SYSTEM

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS.

REVISIONS	DATE	BY
1		

ROY E COLBERT

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REGISTERED PROFESSIONAL ENGINEER
KENNETH W. LUCCI
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ELECTRICAL
STATE OF CALIFORNIA

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VENTURA COUNTY
COMMUNITY
COLLEGE DISTRICT

VENTURA COLLEGE
4667 Telegraph Road
Ventura, CA 93003

M&O:
MAINTENANCE &
OPERATIONS ADMIN
RENOVATION

PROJECT DIRECTORY

SOILS ENGINEER / SEPTIC SYSTEM:
XXXX

CIVIL ENGINEER:
XXXX

STRUCTURAL ENGINEER:
XXXX

ELECTRICAL ENGINEER:
LUCCI & ASSOCIATES
KEN LUCCI
805/389.6520

MECHANICAL ENGINEER:
XXXX

LANDSCAPE ARCHITECT:
XXXX

WATER SYSTEM / FIRE PROTECTION SYSTEM:
XXXXt

FIRE ALARM SYSTEM - EQUIPMENT LIST & BATTERY CALCULATIONS & PARTIAL EXISTING CONDITION SITE PLAN

SHEET NAME

DATE 09-03-2017

SCALE AS SHOWN

PROJECT C16 - 006

E5.01 SHEET NUMBER 00 OF SHEETS

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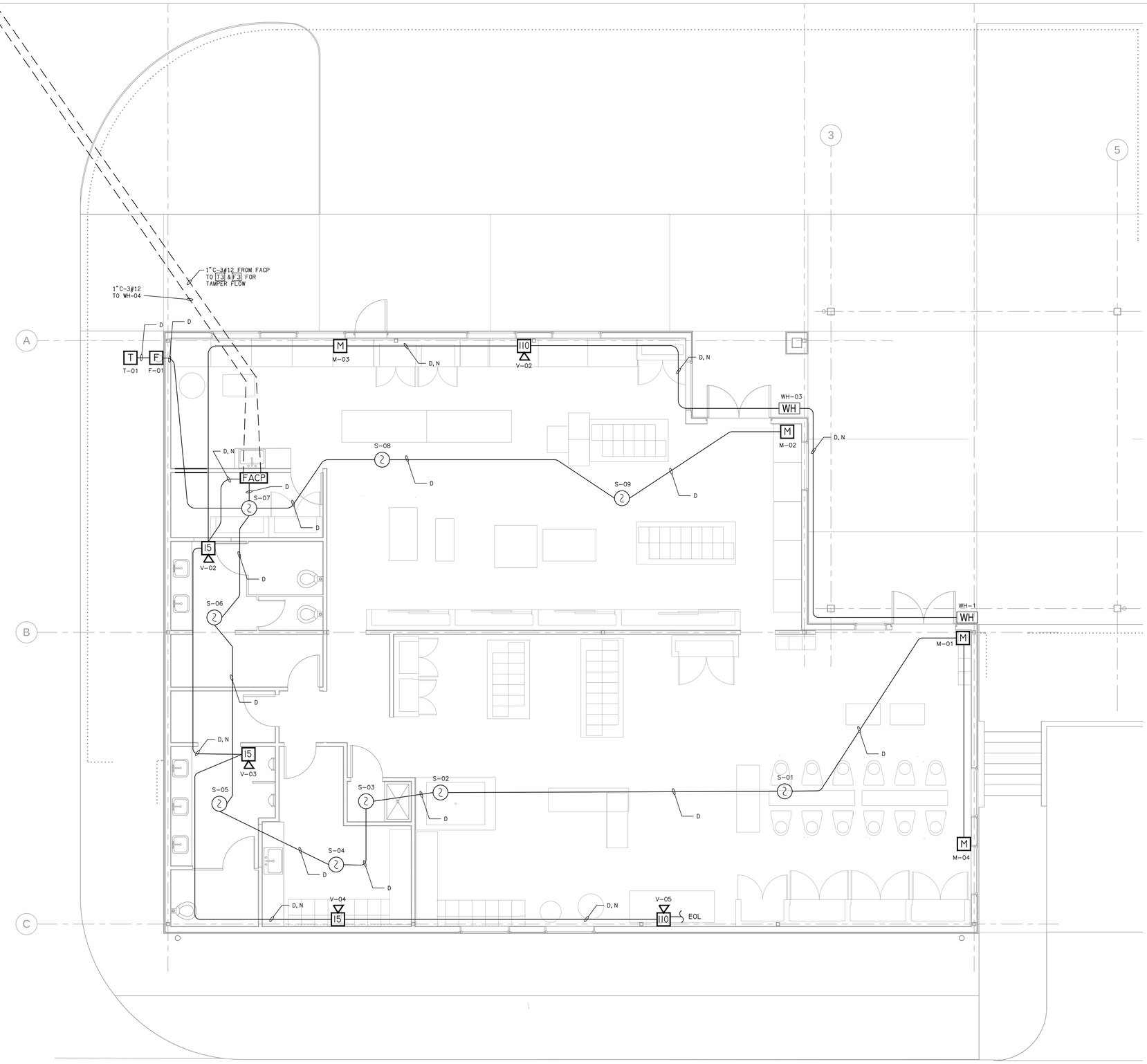
L.A.I.# 16247 PAPER SIZE 42"x30"



SHEET NOTES:

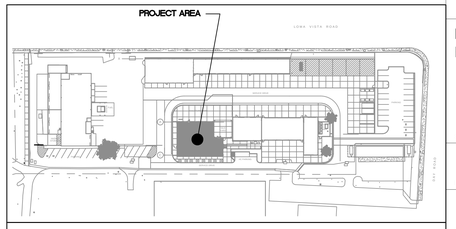
1. VERIFY LOCATION OF ALL DEVICES ON PROJECT MANAGER.
2. 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL COMMUNICATION CABLING PER CABLE MANUFACTURERS RECOMMENDATIONS.
4. MAXIMUM 180 DEGREE OF BEND BETWEEN PULL POINTS.
5. RUN COMMUNICATION CABLING IN CABLE TRAY TO MAXIMUM EXTENT POSSIBLE. WHERE CABLING IS NOT IN CABLE TRAY, CABLE SHALL BE IN CONDUIT.
6. UNIQUELY LABEL BOTH ENDS OF ALL CABLING.

WIRE LEGEND

D	Twisted Unsheilded Pair (16/2 FPLP) SLC.
N	Pair 14awg Stranded (THHN) NAC.
C	Twisted Unsheilded (18/4 COMM. CBL)
P	Pair 14awg Stranded (THHN) 24VDC Power

CANDELA RATING FOR HORN/STROBE OR STROBE

COMPLETE BUILDING FIRE ALARM SYSTEM



KEY MAP

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS.

0 2' 4' 8' 12'

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

FIRE ALARM SYSTEM - EXISTING CONDITION

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

1 / E5.02

N

REVISIONS	DATE	BY
1		

ROY E COLBERT

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REGISTERED PROFESSIONAL ENGINEER
KENNETH W. LUCCI
No. E 8840
Exp. 09/30/2018
ELECTRICAL
STATE OF CALIFORNIA

This project has been designed by me, or under my direct supervision.

ISSUED FOR CONSTRUCTION

VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

VENTURA COLLEGE
4667 Telegraph Road
Ventura, CA 93003

M&O:
MAINTENANCE & OPERATIONS ADMIN RENOVATION

PROJECT DIRECTORY

SOILS ENGINEER / SEPTIC SYSTEM:
XXXX

CIVIL ENGINEER:
XXXX

STRUCTURAL ENGINEER:
XXXX

ELECTRICAL ENGINEER:
LUCCI & ASSOCIATES
KEN LUCCI
805/389.6520

MECHANICAL ENGINEER:
XXXX

LANDSCAPE ARCHITECT:
XXXX

WATER SYSTEM / FIRE PROTECTION SYSTEM:
XXXXt

FIRE ALARM SYSTEM - EXISTING CONDITION

SHEET NAME

DATE 09-03-2017

SCALE AS SHOWN

PROJECT C16 - 006

E5.02 SHEET NUMBER 00 OF SHEETS

DRAFTER: Lee Keener DRAWING FILENAME: 16247E502 PATHNAME: G:\16\247\EL\Sheets DATE: 3 September 2017 TIME: 12:46 pm

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L.A.I.# 16247 PAPER SIZE 42"x30"

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Drafter: Lee Keener (G:\16\247\EL\Sheets\16247E502.dwg; DATE: MAY 26, 2017, TIME: 1:30 PM)

DRAFTER: Lee Keener DRAWING FILENAME: 16247E505 PATHNAME: G:\16\247\EL\Sheets DATE: 3 September 2017 TIME: 12:46 pm

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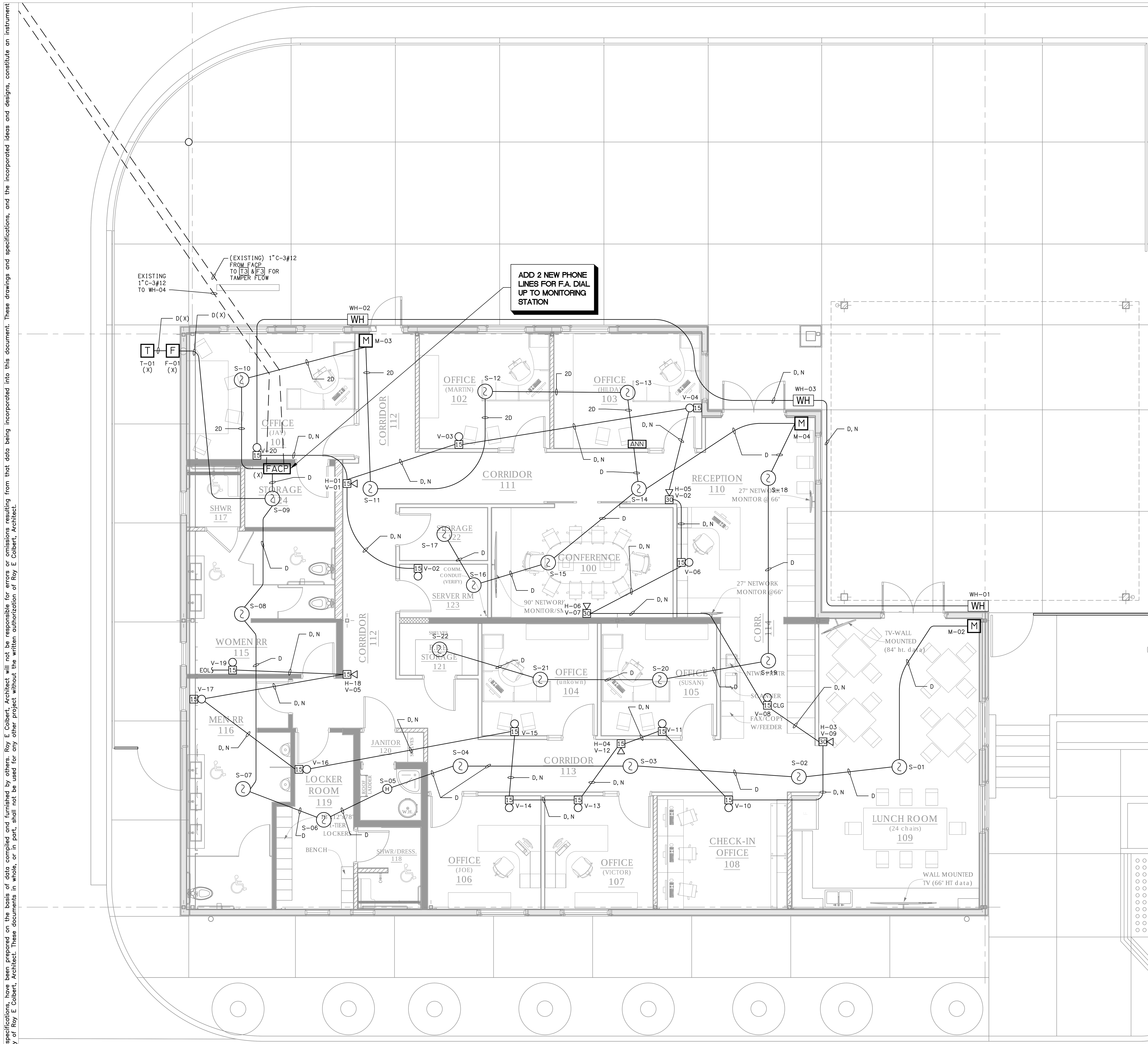

0 2' 4' 8' 12'

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

FIRE ALARM SYSTEM - NEW WORK

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

1 / E5.05

SHEET NOTES:

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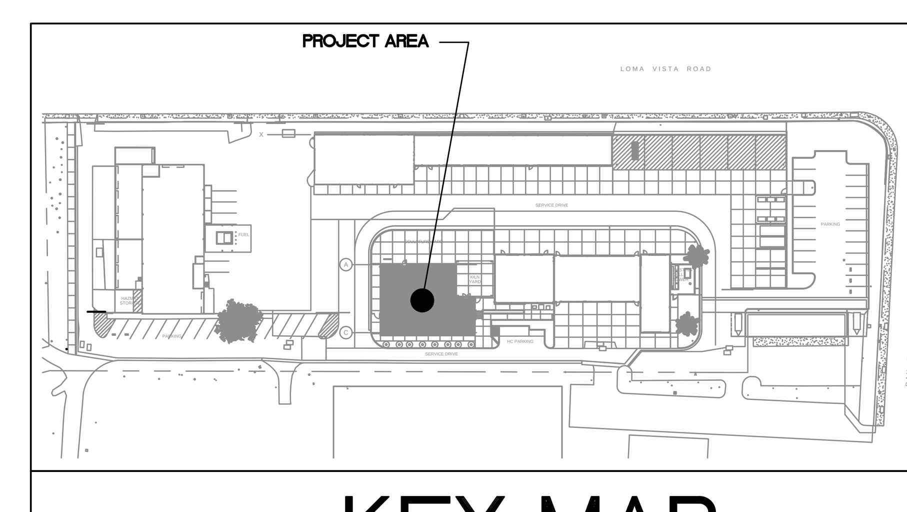
WIRE LEGEND

D	Twisted Unsheilded Pair (16/2 FPLP) SLC.	CLASS B
N	Pair 14awg Stranded (THHN) NAC.	
C	Twisted Unsheilded (18/4 COMM. CBL)	CLASS B
P	Pair 14awg Stranded (THHN) 24VDC Power	CLASS B

CANDELA RATING FOR HORN/STROBE OR STROBE



KEY MAP

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS.

REVISIONS	DATE	BY

ROY E COLBERT

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REGISTERED PROFESSIONAL ENGINEER KENNETH W. LUCCI No. E 8840 Exp. 09/30/2018 ELECTRICAL STATE OF CALIFORNIA

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ISSUED FOR CONSTRUCTION

VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

VENTURA COLLEGE
4667 Telegraph Road
Ventura, CA 93003

M&O:
MAINTENANCE & OPERATIONS ADMIN RENOVATION

PROJECT DIRECTORY

SOILS ENGINEER / SEPTIC SYSTEM:
XXXX

CIVIL ENGINEER:
XXXX

STRUCTURAL ENGINEER:
XXXX

ELECTRICAL ENGINEER:
LUCCI & ASSOCIATES
KEN LUCCI
805/389.6520

MECHANICAL ENGINEER:
XXXX

LANDSCAPE ARCHITECT:
XXXX

WATER SYSTEM / FIRE PROTECTION SYSTEM:
XXXXt

FIRE ALARM SYSTEM - NEW WORK

SHEET NAME

DATE 09-03-2017

SCALE AS SHOWN

PROJECT C16 - 006

E5.05 SHEET NUMBER 00 OF SHEETS

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LA1# 16247 PAPER SIZE 42"x30"

DRAFTER: Lee Keener DRAWING FILENAME: 16247E600 PATHNAME: G:\16\247\EL\Sheets DATE: 3 September 2017 TIME: 12:47 pm

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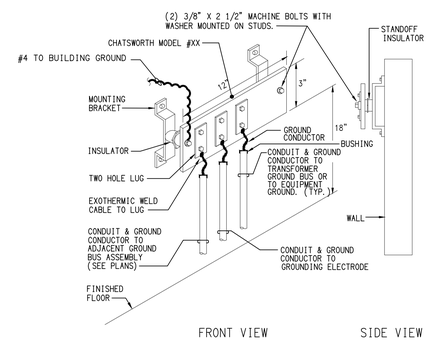
NOT USED
SCALE: NONE
10 E6.00

NOT USED
SCALE: NONE
9 E6.00

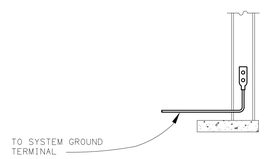
NOT USED
SCALE: NONE
8 E6.00

NOT USED
SCALE: NONE
7 E6.00

PANELS
SCALE: NONE
6 E6.00



GROUNDING ELECTRODE GROUND BUS ASSEMBLY
SCALE: NONE
5 E6.00

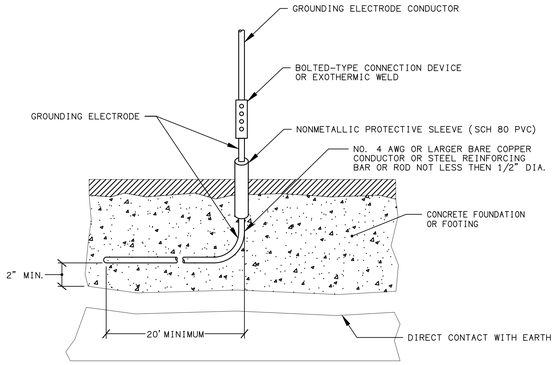


NOTE:
CONNECTIONS TO INTERIOR METAL WATER PIPE GROUNDING ELECTRODES AND TO GROUNDED METAL FRAME OF BUILDING MUST BE ACCESSIBLE.

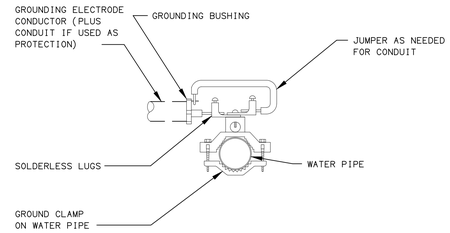
METAL FRAME GROUNDING DETAIL
SCALE: NONE
4 E6.00

DETAIL NOTES:

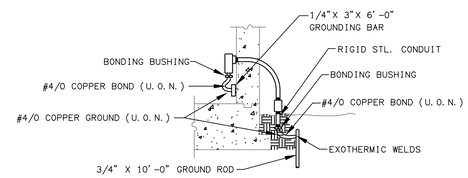
1. CONCRETE-ENCASED ELECTRODE: AN ELECTRODE ENCASED BY AT LEAST 2 INCHES (50.8MM) OF CONCRETE. LOCATED WITHIN AND NEAR THE BOTTOM OF A CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH. CONSISTING OF AT LEAST 20 FEET (6.1 M) OF ONE OR MORE BARE OR ZINC GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 1//2 INCH (12.7 MM) DIAMETER, OR CONSISTING OF AT LEAST 20 FEET (6.1 M) OF BARE COPPER CONDUCTOR NOT SMALLER THAN NO. 4, SEE PLANS FOR SIZE OF CONDUCTOR IF GREATER THEN #4.



UFER GROUND DETAIL
SCALE: NONE
3 E6.00



COLD WATER GROUND DETAIL
SCALE: NONE
2 E6.00



GROUND ROD DETAIL
SCALE: NONE
1 E6.00

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REVISIONS	DATE	BY
1		

ROY E COLBERT

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REGISTERED PROFESSIONAL ENGINEER
KENNETH W. LUCCI
No. E 8840
Exp. 09/30/2018
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M&O:
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ELECTRICAL ENGINEER:
LUCCI & ASSOCIATES
KEN LUCCI
805/389.6520

MECHANICAL ENGINEER:
XXXX

LANDSCAPE ARCHITECT:
XXXX

WATER SYSTEM / FIRE PROTECTION SYSTEM:
XXXXt

ELECTRICAL DETAILS

SHEET NAME

DATE 09-03-2017

SCALE AS SHOWN

PROJECT C16 - 006

E6.00 SHEET NUMBER 00 OF SHEETS

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L.A.I.# 16247 PAPER SIZE 42"x30"

G:\16\247\EL\Sheets\16247E600.dwg Sep 03, 2017, 12:47pm Lee Keener

DRAFTER: Lee Keener DRAWING FILENAME: 16247E600 PATHNAME: G:\16\247\EL\Sheets DATE: 3 September 2017 TIME: 12:47 pm

MECHANICAL NOTES

1. SCOPE OF WORK: WORK INCLUDES THE FOLLOWING: FURNISH AND INSTALL ALL EQUIPMENT SHOWN ON THE ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS AND DESCRIBED IN THESE NOTES AND THE CONTRACT DOCUMENTS. WORK INCLUDES BUT IS NOT LIMITED TO: INSTALLATION OF NEW DUCTWORK TO EXISTING DUCTWORK, RELOCATION OF CONTROL SYSTEM ENCLOSURE AND THERMOSTATS AS DESCRIBED IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL FURNISH AND INSTALL, MAKE OPERABLE, AND TEST ALL SYSTEMS AND MECHANICAL EQUIPMENT SHOWN ON THE PLANS AND CONTRACT DOCUMENTS. IN CONNECTION THEREWITH, CONTRACTOR SHALL ALSO FURNISH AND INSTALL ALL NECESSARY DEVICES, HARDWARE, AND SYSTEMS REQUIRED TO MAKE SAID EQUIPMENT PROPERLY AND SAFELY OPERABLE, INCLUDING BUT NOT LIMITED TO, MOUNTING HARDWARE, INSULATION, FILTERS, VIBRATION CONTROL DEVICES, DUCT SYSTEMS, CONTROL SYSTEMS, AND PATCHING AND PAINTING.

2. INTERPRETATION OF DRAWINGS OR CONTRACT DOCUMENTS. IF ANY BIDDER IS IN DOUBT AS TO THE TRUE MEANING OF ANY PART OF THE DRAWINGS, OR OTHER PORTIONS OF THE CONTRACT DOCUMENTS; FINDS DISCREPANCIES, ERRORS OR OMISSIONS THEREIN; OR FINDS VARIANCES IN ANY OF THE CONTRACT DOCUMENTS WITH APPLICABLE RULES, REGULATIONS, ORDINANCES AND/OR LAWS, A WRITTEN REQUEST FOR AN INTERPRETATION OR CORRECTION THEREOF MAY BE SUBMITTED TO THE ENGINEER. IT IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE BIDDER TO SUBMIT SUCH REQUEST IN SUFFICIENT TIME FOR THE PREPARATION OF A RESPONSE THERETO AND DELIVERY OF SUCH RESPONSE TO ALL BIDDERS PRIOR TO THE SCHEDULED CLOSING FOR RECEIPT OF BID PROPOSALS. ANY REQUEST OF ANY BIDDER, PURSUANT TO THE FOREGOING SENTENCE THAT IS MADE LESS THAN SEVEN DAYS PRIOR TO THE SCHEDULED CLOSING DATE FOR THE RECEIPT OF BID PROPOSALS SHALL BE DEEMED UNTIMELY. ANY INTERPRETATION OR CORRECTION OF THE CONTRACT DOCUMENTS WILL BE MADE ONLY BY WRITTEN ADDENDUM DULY ISSUED BY THE OWNER OR THE ENGINEER. A COPY OF ANY SUCH ADDENDUM WILL BE MAILED OR OTHERWISE DELIVERED TO EACH BIDDER RECEIVING A SET OF THE CONTRACT DOCUMENTS. NO PERSON IS AUTHORIZED TO RENDER AN ORAL INTERPRETATION OR CORRECTION OF ANY PORTION OF THE CONTRACT DOCUMENTS TO ANY BIDDER, AND NO BIDDER IS AUTHORIZED TO RELY ON ANY SUCH ORAL INTERPRETATION OR CORRECTION. FAILURE TO REQUEST INTERPRETATION OR CLARIFICATION OF THE DRAWINGS, OR OTHER PORTIONS OF THE CONTRACT DOCUMENTS PURSUANT TO THE FOREGOING SHALL BE DEEMED TO BE A WAIVER OF ANY DISCREPANCY, DEFECT, OR CONFLICT THEREIN.

3. DIMENSIONS. ALL DIMENSIONS SHALL HAVE PREFERENCE OVER SCALE. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD. ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS BEFORE PROCEEDING WITH WORK. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON WORKING DRAWINGS. ALL SIZES OF EQUIPMENT AND MATERIALS SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER.

4. CODES AND STANDARDS: ALL WORK SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), 2016 CALIFORNIA BUILDING CODE, THE 2016 CALIFORNIA MECHANICAL CODE, THE 2016 CALIFORNIA PLUMBING CODE, THE NATIONAL ELECTRIC CODE, THE STATE OF CALIFORNIA, EQUIPMENT MANUFACTURER'S RECOMMENDED PROCEDURES, AND STANDARD CONSTRUCTION PRACTICES. NOTE: WHERE TWO OR MORE CODES CONFLICT, THE MOST RESTRICTIVE SHALL APPLY. NOTHING IN THESE PLANS AND SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO APPLICABLE CODES.

5. SUBMITTALS REQUIRED: PRIOR TO ORDERING EQUIPMENT AND MATERIALS, CONTRACTOR SHALL FURNISH TO ENGINEER / DISTRICT SUBMITTALS AND SHOP DRAWINGS OF ALL EQUIPMENT AND MATERIALS PROPOSED FOR USE IN THIS PROJECT. ORDERING OF EQUIPMENT AND MATERIALS SHALL ONLY PROCEED AFTER SATISFACTORY REVIEW OF ALL SUBMITTALS BY CONTRACTOR / ENGINEER / DISTRICT. COPIES OF ALL OWNER'S MANUALS, WARRANTIES AND OTHER WRITTEN INFORMATION REGARDING SYSTEMS SHALL BE PRESENTED TO DISTRICT PRIOR TO THE COMPLETION OF THE PROJECT.

6. CONSTRUCTION OBSERVATION: IN ADDITION TO THE REQUIREMENT FOR OBTAINING INSPECTIONS BY THE LOCAL JURISDICTION, CONTRACTOR SHALL NOTIFY ENGINEER AT APPROPRIATE TIMES DURING THE CONSTRUCTION PROCESS SO THAT ENGINEER CAN VISIT SITE TO BECOME GENERALLY FAMILIAR WITH THE PROGRESS AND QUALITY OF CONTRACTOR'S WORK AND TO DETERMINE IF THE WORK IS PROCEEDING IN GENERAL ACCORDANCE WITH THE CONTRACT DOCUMENTS.

7. UNIT LOCATIONS: EQUIPMENT AND SYSTEM LOCATIONS SHOWN ARE APPROXIMATE ONLY. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL STRUCTURAL MEMBERS AND EXISTING CONDITIONS IN THE FIELD, AND LOCATE UNITS AND DUCTWORK TO AVOID INTERFERENCE. ANY SIGNIFICANT DEVIATIONS FROM THE PLANS SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER. ALLOW CLEARANCE FOR DUCTWORK AND PIPING. ALL CLEARANCES REQUIRED BY UNIT MANUFACTURER SHALL BE MAINTAINED. ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH CODES AND THE RECOMMENDED INSTALLATION PROCEDURES PUBLISHED BY THE MANUFACTURER.

8. DUCTWORK: CONTRACTOR SHALL INSTALL NEW DUCTWORK IN THE APPROXIMATE LOCATIONS SHOWN ON THE DRAWINGS. ALL DUCTWORK SHALL BE SECURELY ANCHORED TO THE BUILDING IN AN APPROVED MANNER THAT WILL RENDER IT ABSOLUTELY FREE FROM VIBRATION AND LATERAL MOVEMENT. CONTRACTOR SHALL PROVIDE WITHOUT COST TO THE OWNER ALL REQUIRED TRANSITIONS AND OFFSETS TO AVOID CONFLICTS WITH STRUCTURE AND OTHER TRADES.

9. MATERIALS - DUCTWORK: ALL NEW DUCTWORK FOR HVAC SYSTEMS SHALL BE GALVANIZED STEEL CONFORMING TO ASTM SPEC A525 AND CONSTRUCTED PER 2006 SMACNA HVAC DUCT CONSTRUCTION STANDARDS. (EXCEPTION: ACOUSTIC FLEXIBLE FIBERGLASS DUCTWORK SHALL BE USED FOR THE FINAL CONNECTION TO HVAC SYSTEMS.)

   ALL CONCEALED ROUND DUCTWORK SHALL BE GALVANIZED SPIRAL TYPE WITH GAUGES AND CONNECTIONS PER 2006 SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

   SEAL ALL DUCTWORK JOINTS WITH UL LISTED LEED COMPLIANT PREMIUM FLEXIBLE WATER BASED DUCT SEALANT.

   CURVED ELBOWS SHALL HAVE CENTRALIZE RADIUS NOT LESS THAN THE WIDTH OF THE DUCT. WHERE ABRUPT TURNS AND ELBOWS ARE USED, TURNING VANES SHALL BE PROVIDED. TAKEOFFS FROM MAIN DUCTS SHALL BE MADE WITH 45 DEGREE ANGLES WITH VOLUME DAMPERS WHERE SHOWN. ALL PANELS SHALL BE CROSS BROKEN TO ENSURE RIGIDITY.

   EXPOSED DUCT WORK SHALL BE SPIRAL TYPE. CONNECTIONS SHALL BE MADE WITH SPIRALMATE CONNECTIONS. INSTALLATION SHALL BE STRAIGHT TRUE AND LEVEL. SPIRAL DUCTING SHALL BE CLEAN AND FREE FROM DEFECT. JUST PRIOR TO PROJECT COMPLETION CLEAN EXPOSED DUCTING TO REMOVE DUST AND DEBRIS. AT AC-3 SUPPLY DUCTING PROVIDE 1" SPIRAL LINER.

   RECTANGULAR DUCTWORK SHALL BE MADE FROM GALVANIZED STEEL SHEETS. DUCT CONSTRUCTION, AND REINFORCING SHALL BE PER 2006 SMACNA HVAC DUCT CONSTRUCTION STANDARDS. CURVED ELBOWS SHALL HAVE CENTRALIZE RADIUS NOT LESS THAN THE WIDTH OF THE DUCT. WHERE ABRUPT TURNS AND ELBOWS ARE USED, TURNING VANES ARE REQUIRED. TAKE-OFFS FROM MAIN DUCTS SHALL BE MADE WITH 45 DEGREE ANGLES WITH VOLUME DAMPERS AS CLOSE TO THE TAKEOFF AS PRACTICAL. PANELS SHALL BE CROSS BROKEN TO ENSURE RIGIDITY.

10. DUCT INSULATION: CONCEALED SUPPLY AND RETURN DUCTWORK SHALL BE INSULATED WITH 2" THICK, THREE QUARTER POUND PER CUBIC FOOT FOIL SCRIMP VAPOR BARRIER FACED FIBERGLASS FLEXIBLE DUCT INSULATION. INSULATE ALL ROUND DUCTING WITH 1" OF GLASS FIBER INSULATION WITH VAPOR BARRIER MIN R-VALUE 4.2. INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. INSULATION SHALL HAVE A MINIMUM INSULATION OF R-6. EXPOSED SPIRAL DUCTS SHALL BE INTERNALLY LINED W/ 1" THICK, THREE QUARTER POUND PER CUBIC FOOT, RESIN COATING, MIN R-VALUE 4.2. ALL SUPPLY & RETURN PLENUMS SHALL BE LINED WITH 2" DUCT LINER. UNLESS OTHERWISE NOTED DIMENSIONS SHOWN ARE INTERNAL CLEARANCES. DIMENSIONS SHOWN ARE INTERNAL CLEAR.

11. BALANCING: FOLLOWING INSTALLATION, CONTRACTOR SHALL START UP AND BALANCE ALL HVAC SYSTEMS TO CONFORM TO AIR VOLUMES INDICATED ON PLANS. COPIES OF BALANCING RECORDS SHALL BE FURNISHED TO BUILDING OWNER AND PROJECT ARCHITECT.

12. VIBRATION ISOLATION: INSTALL FLEXIBLE CONNECTIONS BETWEEN MECHANICAL EQUIPMENT AND DUCTWORK. ISOLATE PIPING & DUCTWORK FROM STRUCTURE TO PREVENT EXCESSIVE VIBRATION. AFTER START-UP VERIFY THAT NO VIBRATION IS TRANSMITTED. CORRECT ANY DEFICIENCIES. ALL MECHANICAL EQUIPMENT SHALL HAVE VIBRATION ISOLATION; SEE MECHANICAL DETAILS & FOR SPECIFIC TYPE.

13. DUCT SUPPORTS AND HANGERS: DUCT SUPPORTS SHALL BE PER THE 2016 CALIFORNIA MECHANICAL CODE. RECTANGULAR DUCTS WITH A MAXIMUM SIZE NOT EXCEEDING 30" AND ALL ROUND DUCTS SHALL BE SUPPORTED WITH ONE INCH WIDE 18 GAUGE HANGER STRAPS. SUPPORTS SHALL BE LOCATED ON TWO OPPOSITE SIDES OF THE DUCT, SHALL BE METAL SCREWED TO THE SIDES AND BOTTOM OF THE DUCT, SHALL BE SPACED AT NOT MORE THAN 7'-8" ON CENTERS AND SHALL BE LATERALLY BRACED. SECURE STRAPS TO STRUCTURAL FRAMING PER SMACNA STDS. FOR SEISMIC LEVEL "AA".

14. VOLUME DAMPERS: LOCKING SHEET METAL VOLUME DAMPERS SHALL BE INSTALLED AT THE POINT OF TAKE-OFF FROM MAIN DUCTING AT ALL LOCATIONS SHOWN ON PLANS AND ELSEWHERE AS NECESSARY FOR PROPER BALANCING OF THE SYSTEM. BALANCING AT DIFFUSERS OR RETURN AIR GRILLES ONLY WILL NOT BE PERMITTED. PROVIDE POTTOROFF REMOTE DAMPER ACCESS W/ BOX & COVER PLATE AT CONCEALED LOCATIONS.

15. EXHAUST FAN AND FLUE DISCHARGE: ALL EXHAUST FAN DUCTWORK AND FLUES SHALL BE RUN TO A POINT AT LEAST 10 FEET FROM AIR INTAKES OR OTHER OPENINGS TO THE BUILDING.

16. COORDINATION: MECHANICAL CONTRACTOR SHALL COORDINATE WORK WITH THE DISTRICT'S PROJECT MANAGER AND ALL RELATED TRADES.

17. CLEANUP: EVERY DAY, AND AFTER ALL WORK HAS BEEN COMPLETED, CONTRACTOR SHALL CLEAN ENTIRE JOB-SITE OF ALL DEBRIS ASSOCIATED WITH MECHANICAL SYSTEMS. EXPOSED PARTS WHICH ARE TO BE PAINTED SHALL BE THOROUGHLY CLEANED READY FOR PAINTING.

18. WIRING: ALL WIRING SHALL BE PERFORMED IN ACCORDANCE WITH NEC REQTS. ALL WIRING SHALL BE IN CONDUIT. ALL INTERIOR LOW VOLTAGE AND CONTROL WIRING SHALL BE IN WIREMOLD AND IN FAN ROOMS SHALL BE IN CONDUIT. EXPOSED CONDUIT SHALL BE INSTALLED IN A SQUARE, PLUMB, AND LEVEL MANNER WITH THOUGHT GIVEN TO THE FINAL APPEARANCES. PROVIDE TO ENGINEER SHOP DRAWING FOR CONTROL TRANSFORMER CONFIGURATIONS DETAILING CIRCUITS TO BE USED, LOAD CALCULATIONS, WIRE SIZES, AND LOCATIONS. WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT NATIONAL ELECTRICAL CODE AND ELECTRICAL SPECIFICATIONS. ALL TRANSFORMERS SHALL BE PROTECTED BY PROPERLY SIZED CIRCUIT BREAKER OR FUSE(S). ALL TRANSFORMERS SHALL HAVE RESETABLE BREAKER ON THE LOAD SIDE. ALL LOW VOLTAGE CONTROL & COMMUNICATIONS WIRING SHALL BE DONE ACCORDING TO MANUFACTURERS INSTALLATION MANUAL. PROVIDE SUBMITTALS ON WIRE AND ENCLOSURES. PROVIDE PATCH CABLE FROM ROUTER TO NETWORK INTERFACE.

    THE COLLEGE OPERATES AN AUTOMATED LOGIC CONTROL SYSTEM ON CAMPUS. NO SUBSTITUTION ALLOWED. THE COMPLETE SYSTEM; CONTROLLERS, ROUTERS, TRANSFORMERS, RELAYS, CONTACTORS, CONDUIT (PROVIDED BY EMS CONTRACTOR) AND WIRING, ETC. SHALL REMAIN THE SAME. THE CONTROL BOXES ARE TO BE RELOCATED AS SHOWN ON THE PLANS. ALL WIRING SHALL BE IN CONDUIT. EXTEND ANY CONDUITS AS REQUIRED FOR CONTROLS NEW LOCATION. CONTACT AUTOMATED LOGIC WESTERN REGIONAL OFFICE FOR QUALIFIED DEALERS (714) 256-1188. COORDINATE WITH CAMPUS IT DEPARTMENT FOR ROUTER LOCATION AND IP ADDRESS.

19. COORDINATION DURING CONSTRUCTION: THE CONTRACTOR SHALL COORDINATE ANY NECESSARY CHANGES IN WORK SCHEDULING WITH THE DISTRICT TO MINIMIZE THE DISRUPTION. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY HIS WORK TO BUILDING(S) AND EQUIPMENT AT NO ADDITIONAL COST TO THE DISTRICT.

20. CORRECTION OF WORK: THE CONTRACTOR SHALL PROMPTLY CORRECT ALL WORK THE DISTRICT FINDS DEFECTIVE OR FAILING TO CONFORM TO THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BEAR ALL COSTS REQUIRED BY THE CONTRACT DOCUMENTS, IF ANY OF THE WORK IS FOUND TO BE DEFECTIVE OR NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL CORRECT IT PROMPTLY AFTER RECEIPT OF A WRITTEN NOTICE FROM THE DISTRICT TO DO SO.

21. AS-BUILT DRAWINGS SHALL BE GIVEN TO THE DISTRICT PRIOR TO ACCEPTANCE OF THE PROJECT. AS-BUILTS SHALL BE ON PRINTED SHEETS AND ON MAGNETIC MEDIA.

22. AT COMPLETION OF WORK, COMMISSION ALL HVAC EQUIPMENT AND PROVIDE ITEM BY ITEM REPORT WITH SETPOINTS, OPERATIONAL DATA, HOURS OF OPERATION, HEATING, ECONOMIZER & COOLING OPERATION.

23. TEMPORARY VENTILATION. THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8, BASED ON ASHRAE 52.2-1999, OR AN AVERAGE EFFICIENCY OF 30 PERCENT BASED ON 52.1-1992. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY.

24. COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. AT THE TIME OF ROUGH INSTALLATION AND DURING THE STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STATUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM.

25. FILTERS. IN MECHANICALLY VENTILATED BUILDINGS, PROVIDE REGULARLY OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY THAT PROVIDES AT LEAST A MERV OF 8 AS SPECIFIED IN CALGREEN, SECTION 5.504.5.3.

AIR DISTRIBUTION SCHEDULE

CDT	CEILING DIFFUSER SURFACE MOUNT TITUS PAR AA, WHITE T BAR TYPE
RAT	RETURN AIR REGISTER TITUS PAR AA, WHITE T BAR TYPE
TG	TRANSFER GRILLE, TITUS, MODEL 300FL WHITE SURFACE MOUNT, SIZE ON PLANS.
TGS	TRANSFER GRILLE, TITUS PAR, PERFORATED FACE, WHITE PLASTER MOUNT.
SR	SUPPLY REGISTER. TITUS MODEL

EQUIPMENT SCHEDULE

OU1 OUTDOOR UNIT. MITSUBISHI MODEL PUY-A12NHA4-BS
COOLING CAPACITY 12,000 BTUH, 208/230-1-60 MCA-13 AMPS
MOCP - 15 AMPS. WEIGHT - 82 LBS. SEACOAST COATING.

IU1 INDOOR UNIT. MITSUBISHI MODEL PKA-A12HA4, WALL MOUNTED..
COOLING CAPACITY 12,000 BTUH, 208/230-1-60 MCA-1 AMPS
MOCP - 15 AMPS. WEIGHT - 29 LBS.

SYMBOL LEGEND

SEE MECH/PLUMB. SCH. FOR DESCRIPTIONS

	RETURN AIR REGISTER
	CEILING DIFFUSER
	EXHAUST FAN
	VOLUME DAMPER
	THERMOSTAT
	RETURN AIR PLENUM (LINED)
	SUPPLY AIR PLENUM (LINED)
	FIRE & SMOKE DAMPER
	EQUIPMENT TAG SEE MECH. SCHEDULE
	ROUND DUCTWORK
	RECTANGULAR DUCTWORK

ABBREVIATIONS

ABBREV	ABBREVIATIONS
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
APPROX	APPROXIMATILY
BLW	BELOW
BFF	BELOW FINISHED FLOOR
BOT | BTM	BOTTOM
BLDG	BUILDING
CLG	CEILING
CD	CEILING DIFFUSER
CL	CENTERLINE
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CONC	CONCRETE
COND	CONDENSATE
CONT	CONTINUED
CFM	CUBIC FEET PER MINUTE
DIA	DIAMETER
DSA	DIVISION OF THE STATE ARCHITECT
DN	DOWN
DS	DOWN SPOUT
DWG	DRAWING
EA	EACH
ELEC	ELECTRIC
EL | ELEV	ELEVATION
EQ | EQUIP	EQUIPMENT
EXH	EXHAUST
(E)	EXISTING
ESP	EXTERNAL STATIC PRESSURE
FIN	FINISHED
FLR	FLOOR
FRM	FROM
FR BLW	FROM BELOW
GPM	GALLONS PER MINUTE
GALV	GALVANIZED
GSM	GALVANIZED STEEL METAL
G	GAS
GDW	GYPSUM DRYWALL
HP	HORSE POWER
HD	HOT DIPPED GALVANIZED
HWR	HOT WATER RETURN (HYDRONIC)
HWS	HOT WATER SUPPLY (HYDRONIC)
MAX	MAXIMUM
MTL	METAL
MIN	MINIMUM
(N)	NEW
OC	ON CENTER
POC	POINT OF CONNECTION
POD	POINT OF DISCONNECTION
PSI	POUNDS PER SQUARE INCH
RW	RAIN WATER
RAG	RETURN AIR GRILLE
RAR	RETURN AIR REGISTER
RD	ROOF DRAIN
RO	ROOF OVERFLOW
SHT	SHEET
SMS	SHEET METAL SCREW
SOV	SHUT-OFF VALVE
SR	SIDEWALL REGISTER
SD	SMOKE DETECTOR
SPEC	SPECIFICATIONS
STL	STEEL
(TYP)	TYPICAL
UNDR	UNDER
UGND	UNDERGROUND
VAV	VARIABLE AIR VOLUME BOX
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT TO ROOF
VD	VOLUME DAMPER (LOCKING)
WCO	WALL CLEAN-OUT
WC	WATER COLUMN

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MECHANICAL
NOTES &
SCHEDULES

SHEET NAME :

JULY 6, 2017

DATE :

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AS SHOWN

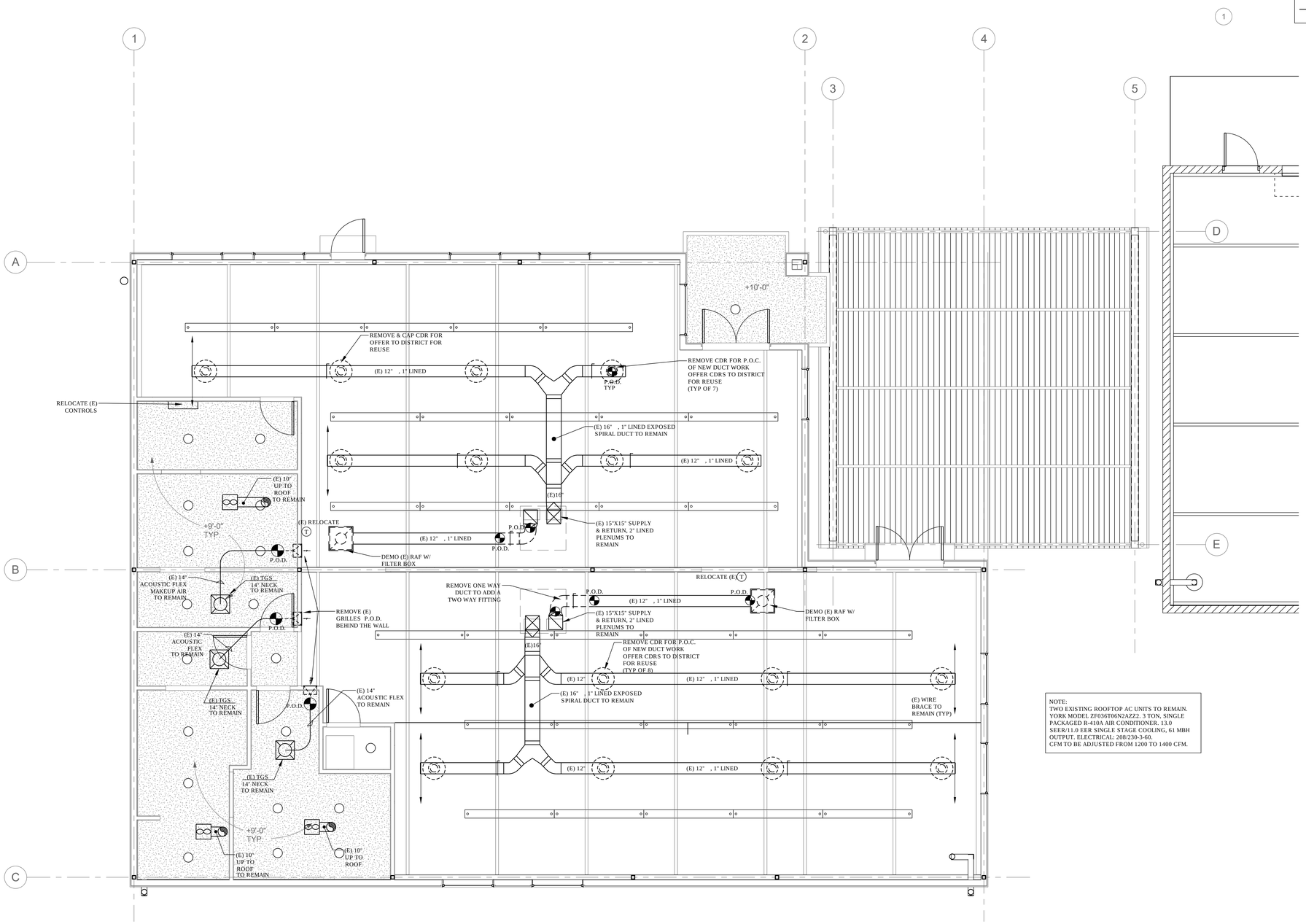
SCALE:

11 - 003

PROJECT :

M-1.0

SHEET NUMBER : OF SHEETS



NOTE:
TWO EXISTING ROOFTOP AC UNITS TO REMAIN.
YORK MODEL ZF036T06N2AZZ2. 3 TON, SINGLE PACKAGED R-410A AIR CONDITIONER. 13.0 SEER/11.0 EER SINGLE STAGE COOLING, 61 MBH OUTPUT. ELECTRICAL: 208/230-3-60.
CFM TO BE ADJUSTED FROM 1200 TO 1400 CFM.

1 MECHANICAL DEMOLITION FLOOR PLAN
SCALE: 1/4"=1'

SYMBOL LEGEND

P.O.D.	POINT OF DISCONNECTION
	(E) SUPPLY CDR TO BE REMOVED
	(E) RETURN RAF
- - - -	TO BE REMOVED
———	TO REMAIN

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MECHANICAL DEMOLITION FLOOR PLAN

SHEET NAME :

JULY 6, 2017
DATE :

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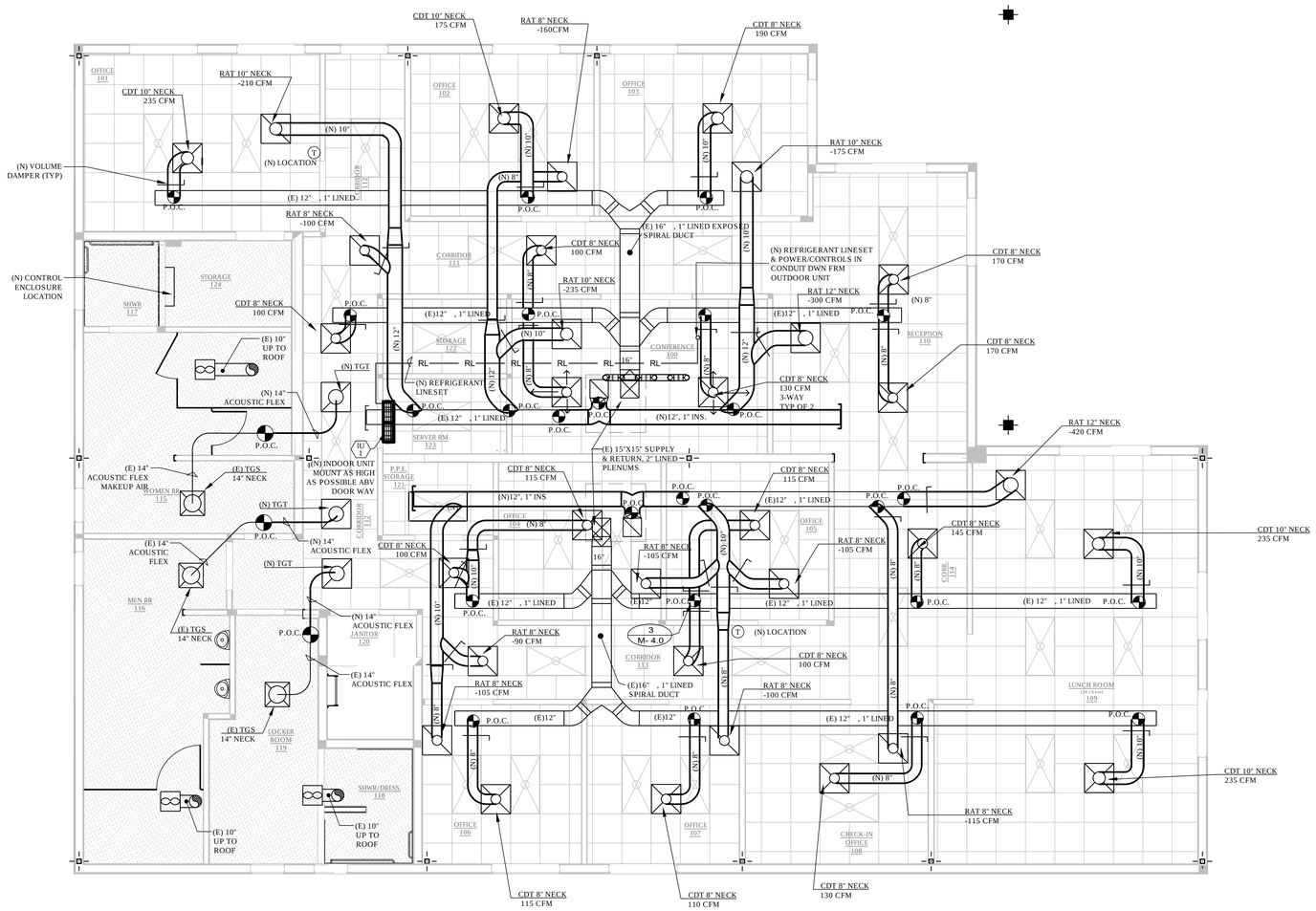
AS SHOWN
SCALE:

11 - 003
PROJECT :

M-2.0
SHEET NUMBER : OF SHEETS

SYMBOL LEGEND

P.O.C.	POINT OF CONNECTION
	SUPPLY CDT
	RETURN RAT
	TRANSFER TGT
	TRANSFER TGS
	(E) SUPPLY & RETURN
	(N) SUPPLY & RETURN
RL	REFRIGERANT LINESET



1 MECHANICAL FLOOR PLAN
SCALE: 1/4"=1'

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SHEET NAME :

JULY 6, 2017

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SCALE:

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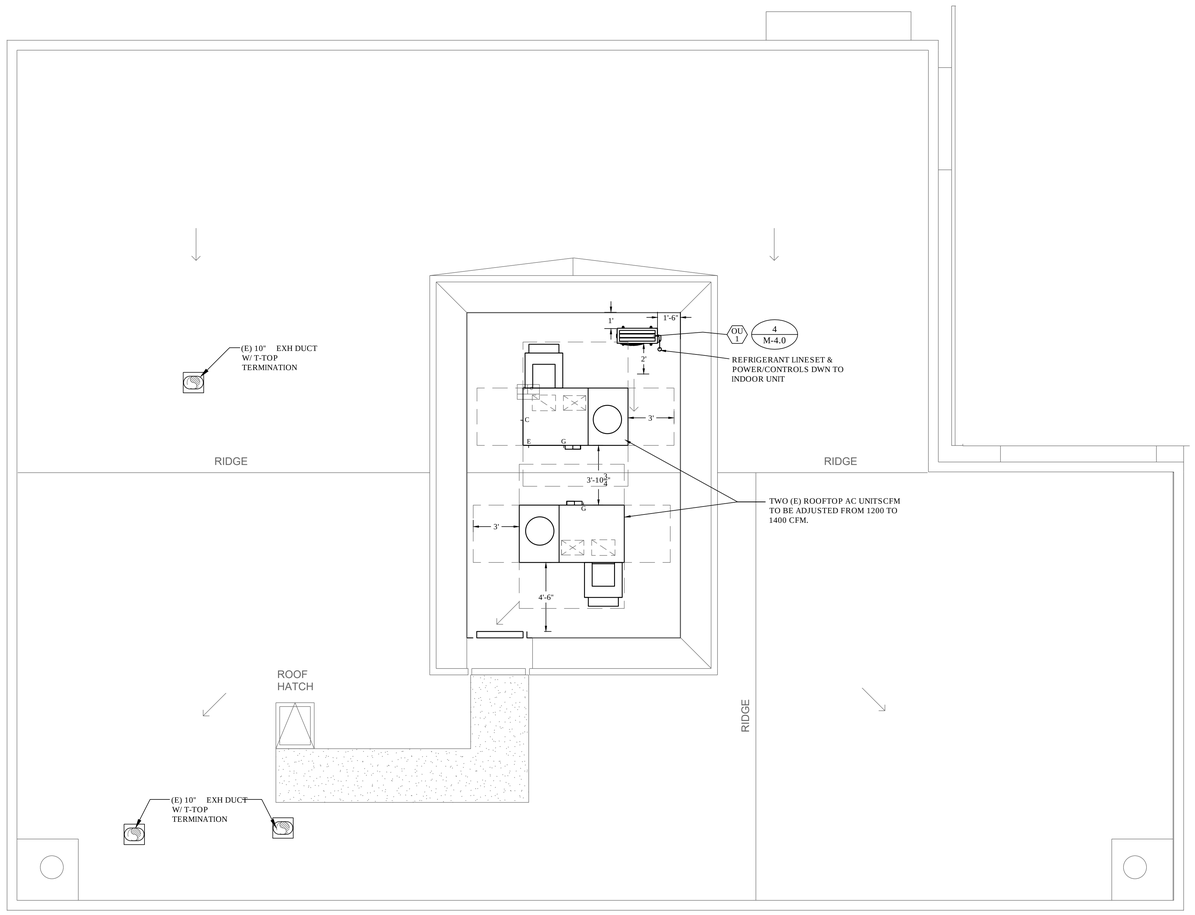
PROJECT :

M-3.0

SHEET NUMBER : OF SHEETS



1 MECHANICAL ROOF PLAN

SCALE: 1/4"=1'

REVISIONS / DESCRIPTION	DATE	BY
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10-31-2017
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M030626
Ren. 6/30/18
MECHANICAL
STATE OF CALIFORNIA

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MECHANICAL
ROOF PLAN

SHEET NAME :

JULY 6, 2017

DATE :

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PROJECT :

M-3.1

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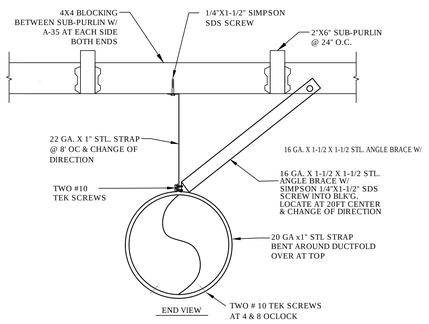
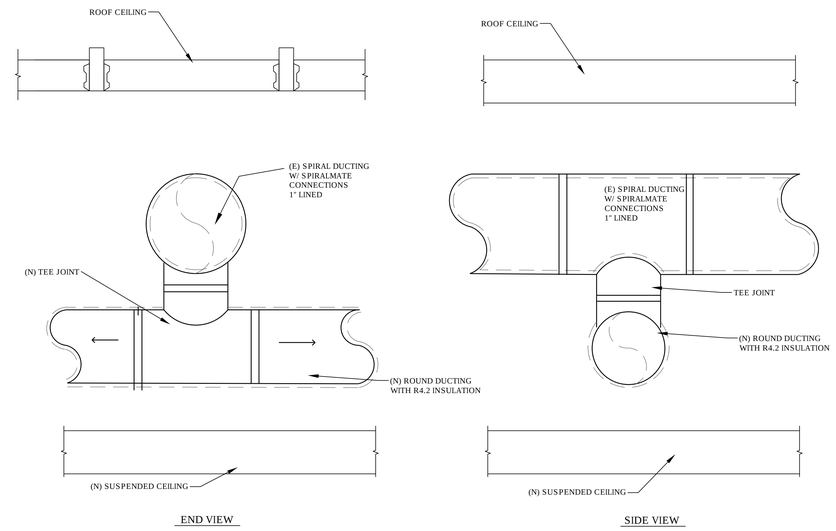


1 / M-4.0 TYPICAL DUCT SUPPORT

SCALE: NTS

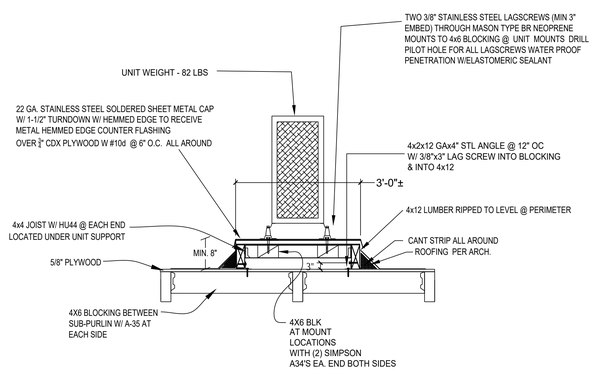
2 / M-4.0 DIFFUSER INSTALLATION DETAIL

SCALE: NTS



3 / M-4.0 DUCT CONNECTION

SCALE: NTS



4 / M-4.0 OUTDOOR UNIT (OU) SUPPORT DETAIL

SCALE: NTS

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MECHANICAL DETAILS

SHEET NAME :

JULY 6, 2017

DATE :

1" ACTUAL

IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ACTUAL MEASUREMENT OF ALL LABELED SCALES.

AS SHOWN

SCALE:

11 - 003

PROJECT :

M-4.0

SHEET NUMBER : OF SHEETS

PLUMBING NOTES

1. SCOPE OF WORK: PLUMBING WORK INCLUDES THE FOLLOWING: FURNISH AND INSTALL ALL PIPING AND PLUMBING FIXTURES SHOWN ON THE PLUMBING AND ARCHITECTURAL DRAWINGS AND DESCRIBED IN THESE NOTES, UNLESS OTHERWISE DIRECTED BY DISTRICT, CONTRACTOR SHALL ARRANGE FOR AND PAY ALL FEES FOR CONNECTIONS TO UTILITIES FOR WATER, AND SEWER. IN CONNECTION WITH THIS WORK, CONTRACTOR SHALL ALSO FURNISH AND INSTALL ALL NECESSARY LABOR, DEVICES, HARDWARE AND SYSTEMS REQUIRED TO MAKE SAID SYSTEMS PROPERLY AND SAFELY OPERABLE, INCLUDING, BUT NOT LIMITED TO, TRENCHING AND BACKFILL, MOUNTING AND SUPPORT HARDWARE, FRAMING, INSULATION, VALVES, AND CLEANOUTS, SEWER, AND COLD WATER, ROUGH-IN AND HOOKUP FOR EQUIPMENT AS SHOWN IN THE PLANS.

2. EXAMINATION OF SITE AND CONTRACT DOCUMENTS. EACH BIDDER SHALL, AT ITS SOLE COST AND EXPENSE, INSPECT THE SITE OF THE PROPOSED WORK TO BECOME FULLY ACQUAINTED WITH CONDITIONS RELATING TO THE WORK AND TO FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES AND RESTRICTIONS ATTENDING THE EXECUTION OF THE WORK UNDER THE CONTRACT DOCUMENTS AND COST THEREOF. BIDDERS SHALL THOROUGHLY REVIEW AND BE FAMILIAR WITH THE CONTRACT DOCUMENTS, INCLUDING WITHOUT LIMITATION, THE SPECIFICATIONS AND THE DRAWINGS. THE FAILURE OR OMISSION OF ANY BIDDER TO RECEIVE OR EXAMINE ANY OF THE CONTRACT DOCUMENTS, FORMS, INSTRUMENTS, ADDENDA, OR OTHER DOCUMENTS OR TO INSPECT THE SITE SHALL NOT RELIEVE SUCH BIDDER FROM ANY OBLIGATIONS WITH RESPECT TO THE BID PROPOSAL, THE CONTRACT OR THE WORK REQUIRED UNDER THE CONTRACT DOCUMENTS. THE OWNER ASSUMES NO RESPONSIBILITY OR LIABILITY TO ANY BIDDER FOR, NOR SHALL THE OWNER BE BOUND BY, ANY UNDERSTANDINGS, REPRESENTATIONS OR AGREEMENTS OF THE DISTRICT'S AGENTS, EMPLOYEES OR OFFICERS CONCERNING THE CONTRACT DOCUMENTS OR THE WORK MADE PRIOR TO EXECUTION OF THE CONTRACT.

3. INTERPRETATION OF DRAWINGS OR CONTRACT DOCUMENTS. IF ANY BIDDER IS IN DOUBT AS TO THE TRUE MEANING OF ANY PART OF THE DRAWINGS OR OTHER PORTIONS OF THE CONTRACT DOCUMENTS; FINDS DISCREPANCIES, ERRORS OR OMISSIONS THEREIN; OR FINDS VARIANCES IN ANY OF THE CONTRACT DOCUMENTS WITH APPLICABLE RULES, REGULATIONS, ORDINANCES AND/OR LAWS, A WRITTEN REQUEST FOR AN INTERPRETATION OR CORRECTION THEREOF MAY BE SUBMITTED TO THE ENGINEER. IT IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE BIDDER TO SUBMIT SUCH REQUEST IN SUFFICIENT TIME FOR THE PREPARATION OF A RESPONSE THERETO AND DELIVERY OF SUCH RESPONSE TO ALL BIDDERS PRIOR TO THE SCHEDULED CLOSING FOR RECEIPT OF BID PROPOSALS. ANY REQUEST OF ANY BIDDER, PURSUANT TO THE FOREGOING SENTENCE THAT IS MADE LESS THAN SEVEN DAYS PRIOR TO THE SCHEDULED CLOSING DATE FOR THE RECEIPT OF BID PROPOSALS SHALL BE DEEMED UNTIMELY. ANY INTERPRETATION OR CORRECTION OF THE CONTRACT DOCUMENTS WILL BE MADE ONLY BY WRITTEN ADDENDUM DULY ISSUED BY THE DISTRICT OR THE ENGINEER. A COPY OF ANY SUCH ADDENDUM WILL BE MAILED OR OTHERWISE DELIVERED TO EACH BIDDER RECEIVING A SET OF THE CONTRACT DOCUMENTS. NO PERSON IS AUTHORIZED TO RENDER AN ORAL INTERPRETATION OR CORRECTION OF ANY PORTION OF THE CONTRACT DOCUMENTS TO ANY BIDDER, AND NO BIDDER IS AUTHORIZED TO RELY ON ANY SUCH ORAL INTERPRETATION OR CORRECTION. FAILURE TO REQUEST INTERPRETATION OR CLARIFICATION OF THE DRAWINGS OR OTHER PORTIONS OF THE CONTRACT DOCUMENTS PURSUANT TO THE FOREGOING SHALL BE DEEMED TO BE A WAIVER OF ANY DISCREPANCY, DEFECT, OR CONFLICT THEREIN.

4. DIMENSIONS. ALL DIMENSIONS SHALL HAVE PREFERENCE OVER SCALE. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD. ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS BEFORE PROCEEDING WITH WORK. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON WORKING DRAWINGS. ALL SIZES OF EQUIPMENT AND MATERIALS SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER. ALL PLUMBING FIXTURES SHALL BE INSTALLED PER THE DIMENSIONS ON THE ARCHITECTURAL DRAWINGS.

5. CODES AND STANDARDS: ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE 2016 CALIFORNIA PLUMBING CODE, THE 2016 CALIFORNIA MECHANICAL CODE, THE 2016 CALIFORNIA BUILDING CODE, 2016 GREEN BUILDING CODE, THE STATE OF CALIFORNIA, DSA AMENDMENTS, AND STANDARD CONSTRUCTION PRACTICES. ALL PLUMBING FIXTURES SHALL BE IN STRICT ACCORDANCE WITH THE FIXTURE SCHEDULE, AND SHALL BE NEW AND FREE FROM DEFECTS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES, AND SHALL OBTAIN APPROVED INSPECTIONS FOR ALL WORK AS REQUIRED BY OWNER, DSA, AND LOCAL JURISDICTION. CONTRACTOR SHALL MAINTAIN IN EFFECT ALL INSURANCE REQUIRED BY STATE LAWS, LOCAL JURISDICTION, AND GENERAL CONTRACTOR / DISTRICT. WHERE CONFLICT OR VARIATION EXISTS AMONGST CODES, SPECIFICATIONS, OR DRAWINGS, THE MOST STRINGENT SHALL GOVERN.

6. SUBMITTALS REQUIRED: PRIOR TO ORDERING FIXTURES AND MATERIALS, CONTRACTOR SHALL FURNISH SUBMITTALS OF ALL FIXTURES AND MATERIALS PROPOSED FOR USE IN THIS PROJECT. ALL FIXTURES AND MATERIALS SHALL BE INSTITUTIONAL GRADE HEAVY DUTY QUALITY. ORDERING OF FIXTURES AND MATERIALS SHALL ONLY PROCEED AFTER SATISFACTORY REVIEW OF ALL SUBMITTALS BY ENGINEER / DISTRICT. COPIES OF ALL OWNER'S MANUALS, WARRANTIES, AND OTHER WRITTEN INFORMATION REGARDING SYSTEMS SHALL BE SUBMITTED TO OWNER.

7. CONSTRUCTION OBSERVATION: IN ADDITION TO THE REQUIREMENT FOR OBTAINING INSPECTIONS BY THE LOCAL JURISDICTION, CONTRACTOR SHALL NOTIFY ENGINEER AT APPROPRIATE TIMES DURING THE CONSTRUCTION PROCESS SO THAT ENGINEER CAN VISIT SITE TO BECOME GENERALLY FAMILIAR WITH THE PROGRESS AND QUALITY OF CONTRACTOR'S WORK AND TO DETERMINE IF THE WORK IS PROCEEDING IN GENERAL ACCORDANCE WITH THE CONTRACT DOCUMENTS.

8. UNDERGROUND ALERT: BEFORE LAYING OUT PIPING AND PERFORMING TRENCHING, CONTRACTOR SHALL DETERMINE LOCATIONS OF EXISTING UNDERGROUND UTILITIES. CONTACT "DIG ALERT / UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA" - 1-800-422-4133. CONTRACTOR SHALL ALSO CONTACT DISTRICT'S REPRESENTATIVE TO ASCERTAIN LOCATIONS OF UNDERGROUND PIPING AND OTHER CONDITIONS AFFECTING TRENCHING, AND SHALL PERFORM TESTING AND SUBSURFACE EXPLORATION AS NECESSARY TO LOCATE UTILITIES.

9. TRENCHING: SEE CIVIL & SOILS ENGINEERING REQUIREMENTS FOR TRENCHING.

10. WATER PIPING: TRANSITIONS FROM PVC TO COPPER SHALL BE MADE WITH MALE PVC TO FEMALE COPPER ADAPTERS. ALL ABOVE GROUND COLD AND HOT WATER PIPES IN BUILDINGS SHALL BE U.S MANUFACTURED TYPE "L" HARD COPPER WITH (NON-LEAD) SOLDER SWEAT JOINTS. ALL UNDERGROUND WATER PIPING IN BUILDINGS SHALL BE TYPE "K" SOFT COPPER, WITH NO JOINTS ALLOWED UNDER SLABS. UNDERGROUND JOINTS SHALL BE BRAZED. ALL WATER SHUT-OFF VALVES SHALL BE BALL TYPE OF BRONZE CONSTRUCTION, WATTS LFB-6000-SS, NIBCO S-685-80-LF, OR EQUAL.

11. CLEANOUTS: INSTALL CLEANOUTS ON ALL WASTE AND RAINWATER PIPING PER CPC. WALL CLEANOUTS SHALL BE CAST IRON CLEANOUT TEE WITH COUNTERSUNK BRONZE PLUG AND ROUND STAINLESS STEEL COVER WITH VANDAL-PROOF -SCREWS - J.R. SMITH 4532S-UY; ZURN Z-1446-BP-VP, OR EQUAL. FLOOR CLEANOUTS SHALL BE CAST IRON BODY WITH BRONZE PLUG AND SQUARE ADJUSTABLE NON-SKID NICKEL-BRONZE TOP WITH VANDAL PROOF TOP FOR FINISHED FLOOR, J.R. SMITH 4043S-PB, ZURN ZN-1400-TVP, OR EQUAL. CLEANOUTS TO GRADE SHALL BE J.R. SMITH 4253S OR EQUAL WITH BRONZE PLUG AND NON-SKID COVER WITH LIFTING DEVICE SET FLUSH WITH SURFACE FOR PAVED AREAS. NON-TRAFFIC OR NON-SURFACED AREAS SHALL BE INSTALLED WITH CAST IRON CLEANOUT RISERS TERMINATING WITH BRONZE PLUG WITHIN CONCRETE YARD BOX WITH CAST IRON COVER AND THE WORDS "BUILDING SEWER CLEANOUT" MARKED ON COVER.

12. PIPING SUPPORT: ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2016 CALIFORNIA PLUMBING CODE. HORIZONTAL WATER PIPES AND CONDENSATE DRAINS SHALL BE HUNG WITH TOLCO FELT-LINED PIPE HANGERS, THREADED ROD, AND BEAM ATTACHMENT BRACKETS, LOCATED AT SIX FOOT MAXIMUM INTERVALS. VERTICAL WATER PIPES AND CONDENSATE DRAINS SHALL BE SUPPORTED AT THEIR BASES AND AT EACH STORY OR AT TEN FOOT MAXIMUM INTERVALS. TO PREVENT SWAYING, PROVIDE LATERAL BRACING AT SIX FOOT INTERVALS ANCHORED TO OVERHEAD FRAMING. HORIZONTAL NATURAL GAS PIPING SHALL BE SUSPENDED WITH THE SAME HARDWARE AS FOR WATER PIPING, EXCEPT WITHOUT FELT LINER, LOCATED EVERY TEN FEET FOR PIPES 3/4" AND SMALLER, AND TWELVE FEET MAXIMUM FOR PIPES 1" AND LARGER. VERTICAL NATURAL GAS PIPING SHALL BE SUPPORTED AT EACH STORY HEIGHT. TO PREVENT SWAYING, PROVIDE LATERAL BRACING AT TEN FOOT INTERVALS ANCHORED TO OVERHEAD FRAMING.

13. ROUGH-IN: EXCEPT WHERE INDICATED IN THE FIXTURE SCHEDULE FOR ACCESSIBLE FIXTURES, PIPING ROUGH-IN SHALL BE IN PRECISE ACCORDANCE WITH THE STANDARD ROUGH-IN DIMENSIONS PUBLISHED BE THE MANUFACTURER. ALL FIXTURES SHALL BE LOCATED IN STRICT CONFORMANCE WITH THE ARCHITECTURAL PLANS. COORDINATE WITH MECHANICAL CONTRACTOR FOR INSTALLATION OF GAS AND CONDENSATE PIPING TO ANY HVAC UNITS. COORDINATE W/ FRAMING & CONCRETE CONTRACTORS FOR BACKING & BLOCKOUTS AS REQD.

14. SEISMIC ANCHORING: ANCHOR ALL EQUIPMENT INCLUDING WATER HEATERS TO RESIST SEISMIC INDUCED MOTION WITH APPROVED ANCHORING DEVICES PER DSA, CPC & CBC REQUIREMENTS.

15. CORRECTION OF WORK: THE CONTRACTOR SHALL PROMPTLY CORRECT ALL WORK COLLEGE FINDS DEFECTIVE OR FAILING TO CONFORM TO THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BEAR ALL COSTS REQUIRED BY THE CONTRACT DOCUMENTS. IF ANY OF THE WORK IS FOUND TO BE DEFECTIVE OR NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL CORRECT IT PROMPTLY AFTER RECEIPT OF A WRITTEN NOTICE FROM COLLEGE TO DO SO.

16. AS-BUILT DRAWINGS SHALL BE GIVEN TO THE DISTRICT PRIOR TO ACCEPTANCE OF THE PROJECT.

17. WARRANTY: THE CONTRACTOR SHALL WARRANT THAT ALL SYSTEMS, SUBSYSTEMS, AND COMPONENT PARTS ARE FULLY FREE FROM DEFECTIVE DESIGN, MATERIALS, AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY COLLEGE.

18. CLEANUP: CONTRACTOR SHALL THOROUGHLY CLEAN ENTIRE JOBSITE EVERY DAY OF ALL DEBRIS ASSOCIATED WITH PLUMBING INSTALLATION.

19. COORDINATION: CONTRACTOR SHALL COORDINATE WITH COLLEGE'S PROJECT MANAGER AND ALL RELATED TRADES.

20. CONDENSATE PIPE SHALL BE COPPER TYPE "L" WITH SOLDERED WROT COPPER FITTINGS. SLOPE MIN 1/8"/FT TO DRAIN. PROVIDE TEE W/ BRASS PLUG AT CHANGES OF DIRECTION.

21. ALL VALVES SHALL BE COMPLIANT WITH AB1953, CALIFORNIA NO LEAD LAW.

22. ALL WASTE, VENT & RAINWATER PIPING SHALL BE U.S. MANUFACTURED CAST IRON WITH 4-BAND HEAVY DUTY NSF - CERTIFIED BAND CLAMPS. EXCEPTION: RAINWATER PIPING @ SHADE STRUCTURE SHALL BE THREADED GALVANIZED STEEL PIPE.

23. UNDERGROUND WASTE AND WATER WITHIN 10 FEET OF BUILDING SHALL BE INSTALLED IN CONCRETE TRENCH PER PLAN AND DETAILS IN THESE DRAWINGS.

24. INSULATION: INSULATE ALL HOT WATER PIPING, CONDENSATE PIPING, AND AT LEAST FIVE FEET OF COLD WATER PIPING BEFORE WATER HEATERS WITH 1 INCH THICK MINIMUM ARMAFLEX INSULATION. INSULATE ALL WATER PIPING ASSEMBLIES BEFORE WATER HEATERS. INSULATE ALL WATER PIPING AND ASSEMBLIES BENEATH LAVS AND SINKS WITH MCQUIRES PROWRAP ADA INSULATION. INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. THERE SHALL BE NO GAPS IN INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. INSULATE TRAPS WITH MCQUIRES PROWRAP ADA INSULATION.

FIXTURE SCHEDULE

SYMBOL	WASTE	VENT	CW	HW	DESCRIPTION
S 1	2"	1-1/2"	1/2"	1/2"	SINK, ELKAY MODEL #EFRU3118DBG LUSTERTONE STAINLESS STEEL, DOUBLE BOWL UNDERMOUNT SINK W/ CHICAGO FAUCET MODEL #1100-HA8AE35-317AB . VERIFY COUNTERTOP DIMENSION FOR INSTALLMENT.
TD 1	2	1-1/2"	-	-	TRENCH DRAIN. ZURN MODEL ZS880 STAINLESS STEEL LINEAR SHOWER DRAIN. ANTI-PONDING V-SHAPED CHANNEL W/ 2" NO-HUB CENTER OUTLET. LINEAR SLOTTED HEEL-PROOF GRATE.
SH 1	-	-	3/4"	3/4"	SHOWER, SINGLE STATION, WALL MOUNTED, ADA COMPLIANT. ACORN APEX MODEL 410BADA SERIES TYPE 1. FLUSH-MOUNTED, WITH T/P TEMPERATURE - THERMOSTATIC/PRESSURE BALANCING MIXING VALVE, SUPPLY FLOW CONTROL 1.5 GPM.
WH 1	-	-	3/4"	3/4"	WATER HEATER, AMERICAN LOWBOY MODEL LDCE32-30L, 30 GALLON, 208 V, 4500 WATTS, WITH HOLDRITE MODEL 50-SWHP WALL HUNG PLATFORM. TEMPERING VALVE WATTS MODEL LFN170-M3. WEIGHT: 350LBS
L 1	2	1-1/2	1/2"	-	LAVATORY, UNDER-MOUNT, WHITE KOHLER TAHOE K-2890-4U W/ CHICAGO FAUCET #802-V317ABCP MANUAL VALVE SET W/ E39VP, 0.35 GPM VANDAL PROOF NON-AERATING. INSTALL HEAVY PATTERN ANGLE STOP VALVES UNDER-SINK SUPPLY CONNECTIONS. SEE ARCHITECTURAL PLANS FOR ADA COMPLIANT REQUIREMENTS FOR HEIGHTS.

REVISIONS / DESCRIPTION	DATE	BY
1		
2		
3		
4		

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PLANNING
DESIGN

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CALIFORNIA C12050
N.C.A.R.B.

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REGISTERED PROFESSIONAL ENGINEER HUGH A. MCTERNAN M030626 Ren. 6/30/18 MECHANICAL STATE OF CALIFORNIA

This project has been designed by me, or under my direct supervision.

VENTURA COUNTY
COMMUNITY COLLEGE
DISTRICT

VENTURA COLLEGE
4667 Telegraph Road
Ventura, CA 93003

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MAINTENANCE &
OPERATIONS
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PLUMBING
NOTES &
SCHEDULES

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JULY 6, 2017

DATE :

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AS SHOWN

SCALE:

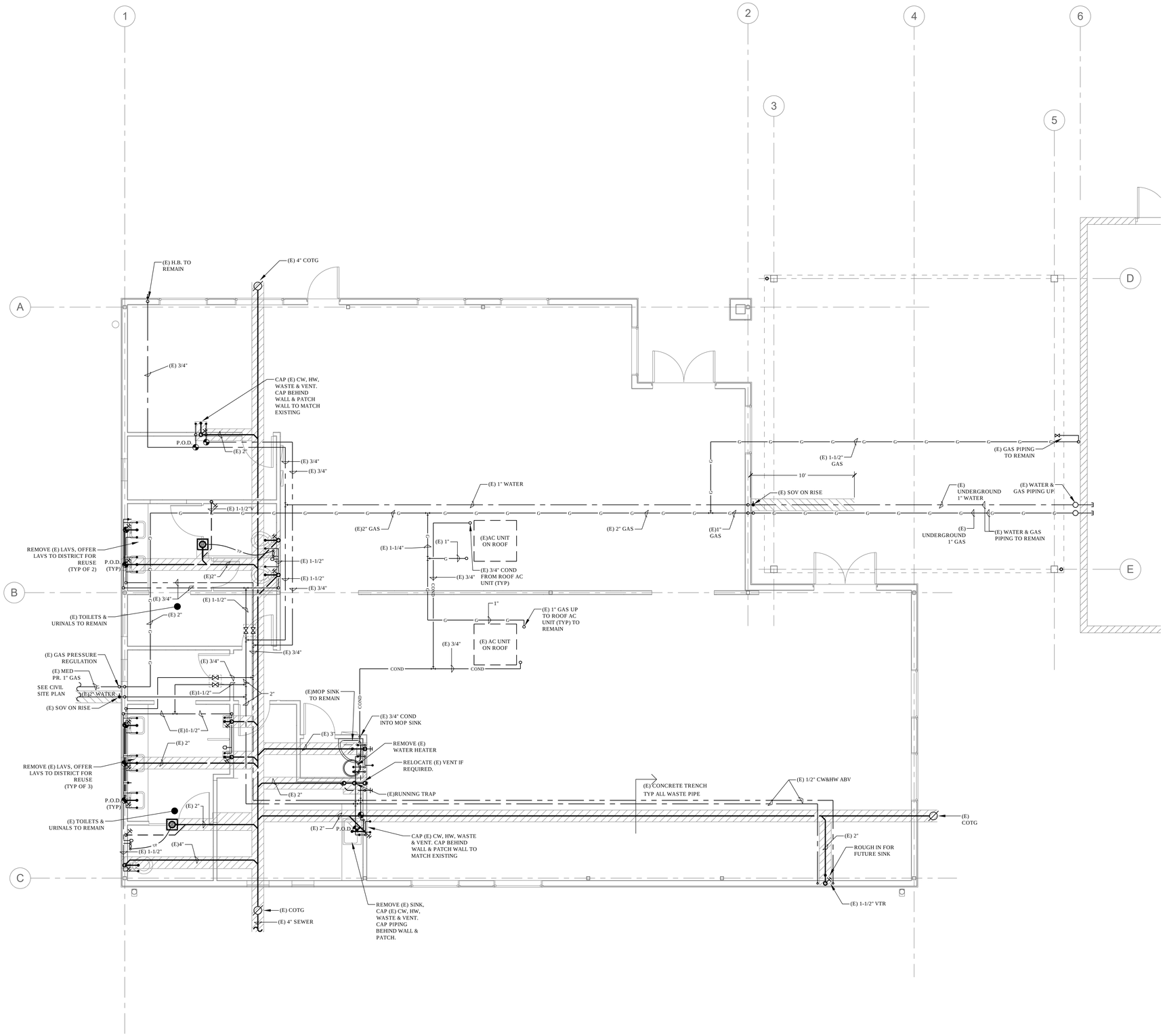
11 - 003

PROJECT :

P-1.0

SHEET NUMBER : OF SHEETS

ISSUED FOR CONSTRUCTION



1 PLUMBING DEMO FLOOR PLAN

SCALE: 1/4"=1'

LINE LEGEND

- (E) COLD WATER
- (E) HOT WATER
- (E) WASTE
- (E) VENT
- G — (E) GAS
- COND — (E) CONDENSATE

SYMBOL LEGEND

- FLOOR CLEAN-OUT
- WALL CLEAN-OUT
- SHUT-OFF VALVE
- TEE
- P.O.D. — POINT OF DISCONNECTION
- (E) CONCRETE TRENCH HATCH.

REVISIONS / DESCRIPTION	DATE	BY
1		
2		
3		
4		

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PLUMBING DEMO FLOOR PLAN

SHEET NAME :

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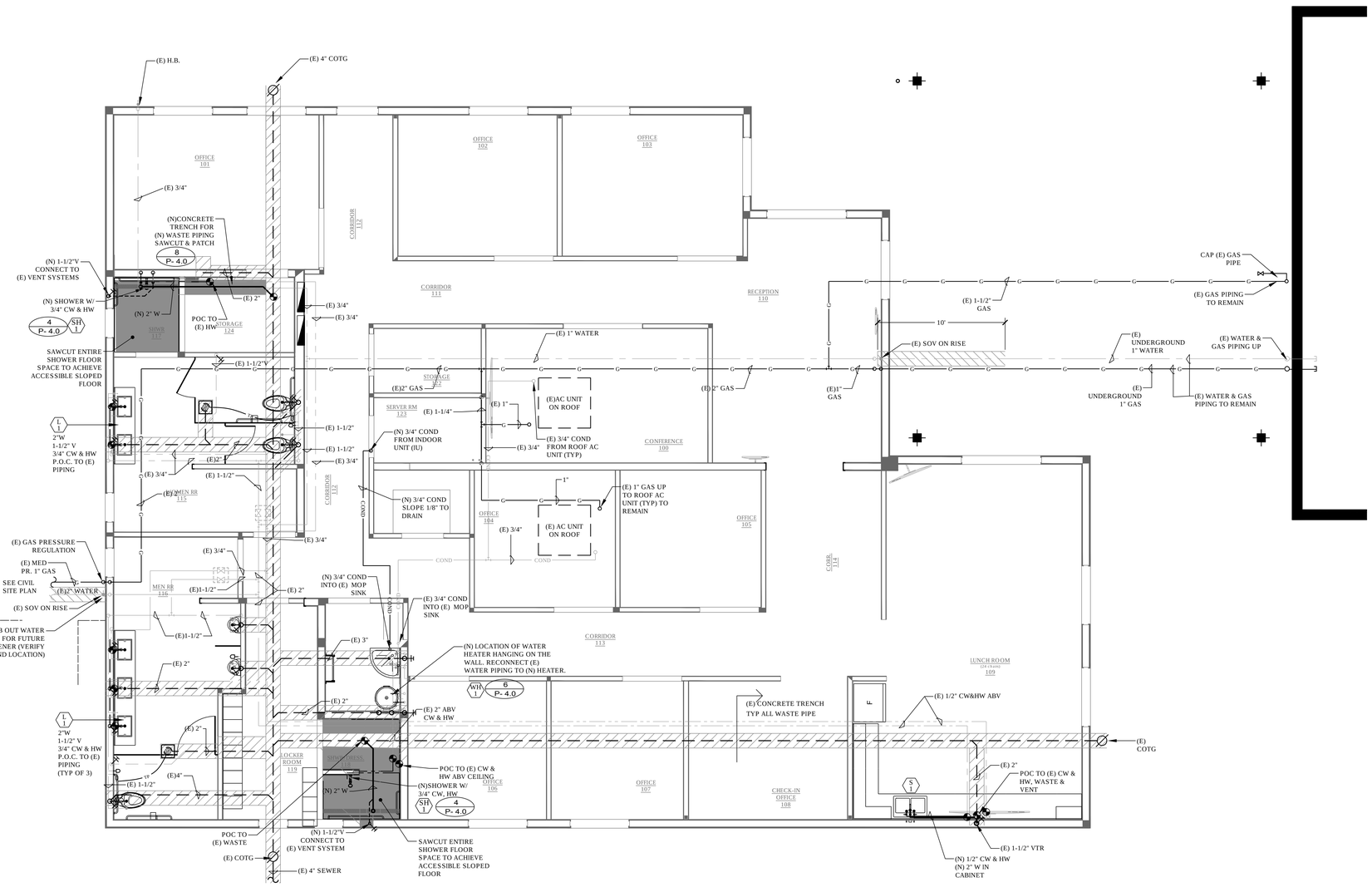
SCALE:

11 - 003

PROJECT :

P-2.0

SHEET NUMBER : OF SHEETS



1 PLUMBING FLOOR PLAN
SCALE: 1/4"=1'

LINE LEGEND

	(E) COLD WATER
	(E) HOT WATER
	(E) WASTE
	(E) VENT
G	(E) GAS
COND	(E) CONDENSATE
COND	(N) CONDENSATE
	(N) COLD WATER
	(N) HOT WATER
	(N) WASTE
	(N) VENT

SYMBOL LEGEND

	FLOOR CLEAN-OUT
	WALL CLEAN-OUT
	SHUT-OFF VALVE
	TEE
P.O.C.	POINT OF CONNECTION
X 1	EQUIPMENT TAG SEE PLUMB. SCHEDULE
	(E) CONCRETE TRENCH
	(N) CONCRETE TRENCH

REVISIONS / DESCRIPTION	DATE	BY
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PLUMBING FLOOR PLAN

SHEET NAME :

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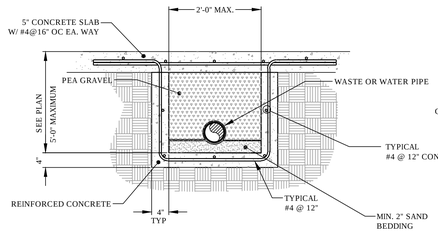
SCALE:

11 - 003

PROJECT :

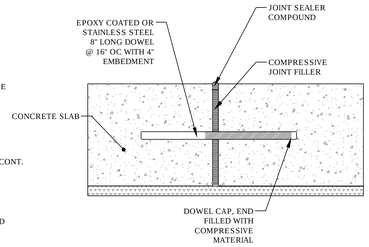
P-3.0

SHEET NUMBER : OF SHEETS

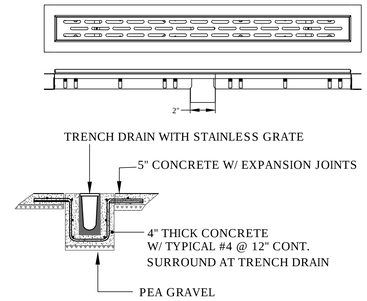


TRENCH WIDTH AS NEEDED FOR INSTALLATION OF PIPING - MAX. 24" INTERIOR

1 / P-4.0 PIPE TRENCH DETAIL (TYP)
SCALE: NTS



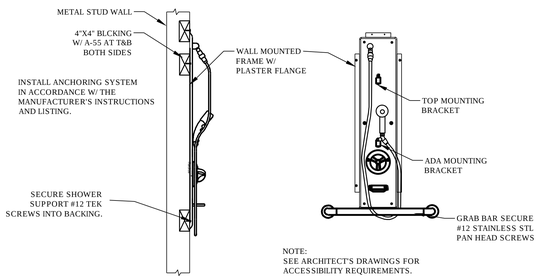
2 / P-4.0 TYPICAL DOWEL DETAIL (TYP)
SCALE: NTS



3 / P-4.0 TRENCH DRAIN DETAIL (TYP)
SCALE: NTS

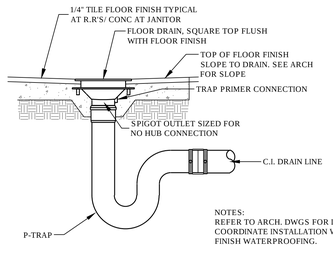
NOTES:
1. REFER TO 2008 SMACNA GUIDELINES FOR SEISMIC RESTRAINTS CHAPTER 3 FOR GENERAL REQUIREMENTS. HAZARD LEVEL IS A.
2. SEE SMACNA FIG. 4-16 FOR LONGITUDINAL BRACING.
3. SEE SMACNA TABLE 6-7 FOR VERTICAL HANGERS, DIAGONAL BRACES BOLT SIZE, CONNECTION TO SUPPORTING STRUCTURE, AND SPACING OF BRACING.

THREADED ROD & UPPER CONNECTION SCHEDULE		
PIPE SIZE	THREADED ROD SIZE	CONNECTION TO CONC. SIZE
2" & 3"	1/2"	1/2"
4"	5/8"	5/8"
6"	3/4"	3/4"



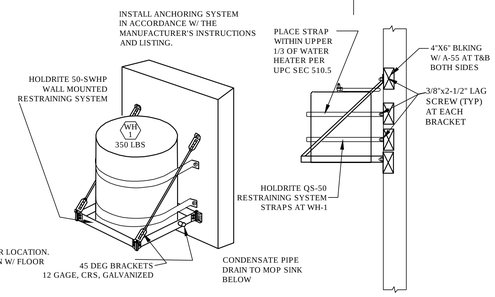
NOTE:
SEE ARCHITECT'S DRAWINGS FOR ACCESSIBILITY REQUIREMENTS.

4 / P-4.0 ADA SHOWER DETAIL
SCALE: NTS

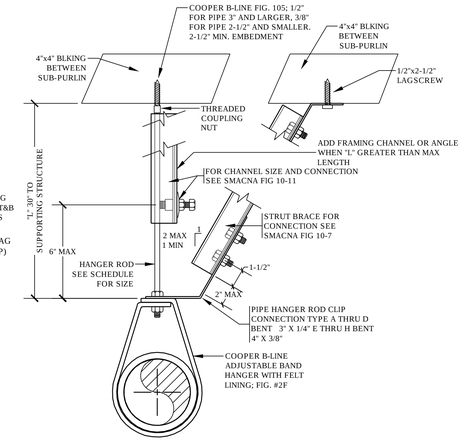


NOTES:
REFER TO ARCH. DWGS FOR LOCATION.
COORDINATE INSTALLATION W/ FLOOR FINISH WATERPROOFING.

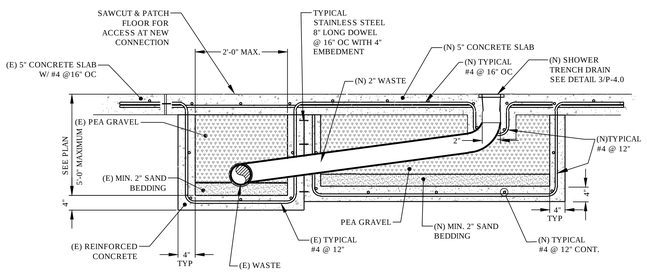
5 / P-4.0 RESTROOM FLOOR DRAIN DETAIL
SCALE: NTS



6 / P-4.0 WATER HEATER SUPPORT DETAIL
SCALE: NTS



7 / P-4.0 PIPE SUPPORT DETAIL
SCALE: NTS



TRENCH WIDTH AS NEEDED FOR INSTALLATION OF PIPING - MAX. 24" INTERIOR

8 / P-4.0 NEW PIPE TRENCH CONNECTION DETAIL
SCALE: NTS

REVISIONS / DESCRIPTION	DATE	BY
1		
2		
3		
4		

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2017
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ROY E. COLBERT
NO. C12050
RENEWS
10-31-2017
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
HUGH A. MCTERNAN
M030626
Ren. 6/30/18
MECHANICAL
STATE OF CALIFORNIA

This project has been designed by me, or under my direct supervision.

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DISTRICT

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FIRE PROTECTION ENGINEER:
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PLUMBING
DETAILS

SHEET NAME :

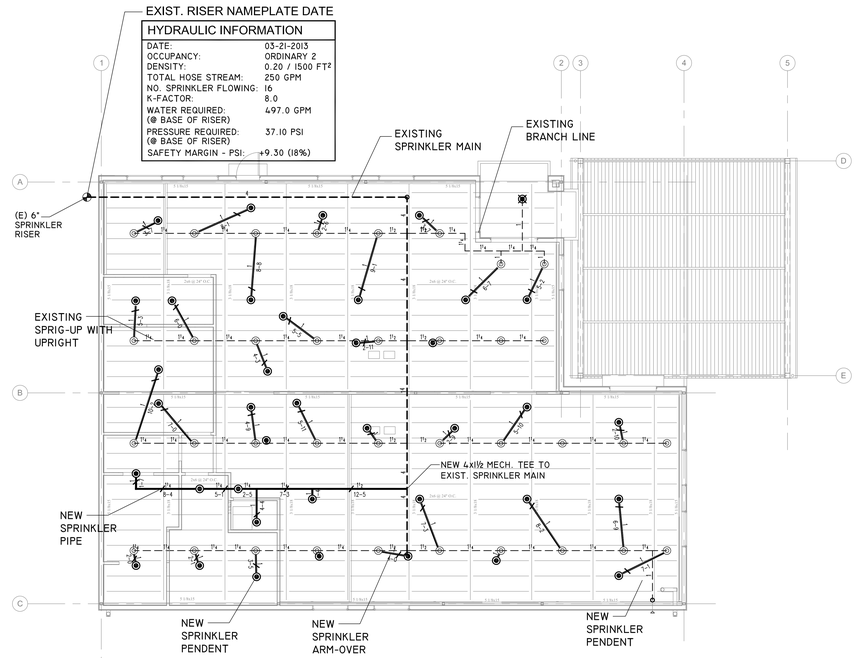
JULY 6, 2017
DATE :

1" ACTUAL
IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THE DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ACTUAL MEASUREMENT OF ALL LABELED SCALES.

AS SHOWN
SCALE:

11 - 003
PROJECT :

P-4.0
SHEET NUMBER : OF SHEETS

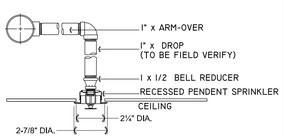


N

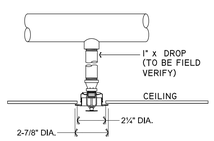
FIRE SPRINKLER PIPING PLAN

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

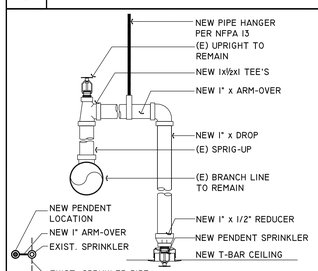
0 4' 8' 16' 24'



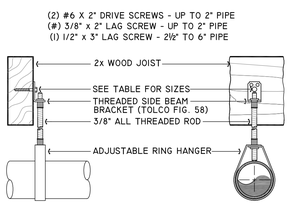
5 TYPICAL ARM-OVER



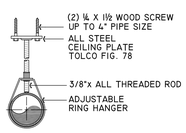
4 TYPICAL PENDENT



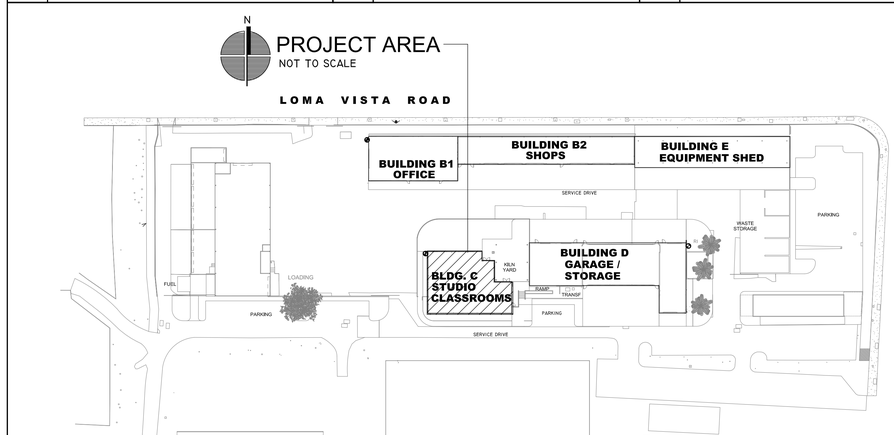
3 TYP. DROPS FROM EXIST.



2 SIDE BEAM BRACKET



1 STEEL CEILING PLATE



N

REFLECTED CEILING PLAN

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

0 4' 8' 16' 24'

FIRE SPRINKLER NOTES:

1. THIS FIRE SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED PER THE REQUIREMENT OF NFPA 13, 2016 EDITION.
2. IT IS THE RESPONSIBILITY OF THE ON-SITE SUPERVISOR TO MAINTAIN THE INTEGRITY OF THE SPRINKLER SYSTEM.
3. THE SPRINKLER CONTRACTOR WILL PROVIDE THE OWNER WITH THE NECESSARY INSTRUCTION MANUALS FOR THE UPKEEP OF THE SYSTEM.
4. ONLY NEW SPRINKLERS SHALL BE EMPLOYED IN THE INSTALLATION OF THE SPRINKLER SYSTEM.
5. THE SYSTEM SHALL ONLY EMPLOY THE USE OF U.L. LISTED MATERIALS AND DEVICES.
6. A SET OF APPROVED PLANS SHALL BE MAINTAINED AT ALL TIMES ON THE JOB SITE.
7. AN APPOINTMENT SHALL BE MADE A MINIMUM OF TWO (2) WORKING DAYS IN ADVANCE WITH THE APPROPRIATE FIRE PREVENTION OFFICE FOR ALL INSPECTIONS AND TEST.
8. ANY PORTION OF THIS SPRINKLER SYSTEM WHICH IS EXPOSED TO FREEZING SHALL BE ADEQUATELY PROTECTED AGAINST THIS EXPOSURE.
9. ALL LOW POINTS IN THE SYSTEM TO BE PROVIDED WITH AUXILIARY DRAIN.
10. FERROUS PIPING: WELDED OR SEAMLESS STEEL, ANSI/ASTM A-135 WITH WELDING PERFORMED BY A CERTIFIED WELDER.
11. PIPES 2 INCH OR SMALLER TO BE SCHEDULE 40 STEEL PIPE WITH THREADED FITTINGS.
12. PIPES 2½ TO 8 INCH TO BE SCHEDULE #10 STEEL PIPE WITH GRVD ENDS.
13. ALL THREADED FITTINGS TO BE CLASS 125 C.I. AND ALL GROOVED FITTINGS AND COUPLING TO BE VICTAULIC OR EQUAL.
14. ALL PIPE DIMENSIONS ARE CENTER TO CENTER.
15. SPRINKLER HEADS AND PIPING LOCATIONS MAY VARY FROM ROOM TO ROOM DUE TO FIELD CONDITIONS.
16. ROUGH AND FINAL INSPECTION ARE REQUIRED ON ALL SYSTEMS.

SCOPE OF WORK:

1. INSTALL NEW DROP PENDENT SPRINKLERS TO ACCOMMODATE NEW CEILING PLAN. NEW PENDENTS TO BE PIPED FROM EXISTING SPRIG-UP UPRIGHT OR MECH. TEE'S.
2. NEW T.I. RENOVATION IS A LIGHT HAZARD OCCUPANCY. HYDRAULIC CALCULATIONS IS NOT REQUIRED, BASED ON THE OVERHEAD SYSTEM IS DESIGNED FOR ORDINARY HAZARD 2.
3. EXISTING UPRIGHT SPRINKLERS ABOVE CEILING THAT PROTECT THE ATTIC TO REMAIN, NO MODIFICATION REQUIRED.
4. SYSTEM DESIGN AND INSTALLATION WILL BE ACCORDANCE TO THE PROVISION OF THE NFPA 13, 2016 EDITION AND THE REQUIREMENT OF CITY OF VENTURA FIRE DEPARTMENT.

HANGER NOTES

1. 3/8" A.T.R. ROD SHALL BE USED ON PIPES 1 TO 4 INCHES. ½" ATR FOR 5, 6 & 8 INCHES PIPE, AND 5/8" ATR FOR 10 & 12 INCHES PIPE.
2. THE MAX. UNSUPPORTED LENGTH FROM THE END OF A LINE TO HANGER SHALL BE 36" FOR 1", 48" FOR 1¼, 60" FOR 1½" PIPE AND ABOVE.
3. THE MAXIMUM HANGER SPACING SHALL BE 12 FT. FOR 1" TO 1¼" PIPE, 15 FT. FOR 1½" PIPE AND ABOVE EXCEPT THREADED LIGHT WALL. FOR THREADED LIGHT WALL MAXIMUM SPACING IS 12 FT. FOR PIPE UP TO 3 IN.(UNLESS NOTED OTHERWISE).
4. ALL HANGERS SHALL BE IN ACCORDANCE WITH NFPA-13, 2016 EDITION. TABLE 9.2.2.1(a). ALL ARM-OVER MORE THAN 2'-0 SHALL HAVE HANGER. IF STATIC PRESSURE EXCEEDS 100 PSI, HANGER IS REQUIRED ON ARM-OVER MORE THAN 1'-0".

LEGEND & SYMBOLS

	EXISTING SPRINKLER RISER		KEY VALVE
	EXISTING PENDENT		OS&Y VALVE
	NEW SPRINKLER PENDENT		YARD FDC
	PIPE UP OR DOWN		STD WALL FDC
	NEW BRANCH LINE/ARMOVER		FLUSH WALL FDC
	EXISTING BRANCH LINE		GATE VALVE
	EXISTING SPRINKLER PIPE		POST INDICATOR VALVE
	HANGER LOCATION		CHECK VALVE
	ALARM BELL		
	BUTTERFLY VALVE		
	FIRE HYDRANT		
#	HYDRAULIC NODE		

SPRINKLER HEAD INFO.:

SYM.	MANUFACT.	SIN #	NPT	K	TEMP	DESCRIPTION	QTY.
	RELIABLE	RA1414	½	5.6	155°	QR RECESSED SPRINKLER PENDENT	38
						TOTAL:	38

NOTE TO CONTRACTOR:

1. ALL PIPE DIMENSIONS ARE CENTER TO CENTER.
2. CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL POSSIBLY INTERFERING PIPING, STRUCTURAL STEEL AND MISCELLANEOUS ITEMS BEFORE INSTALLATION OF SPRINKLER SYSTEMS TO AVOID INTERFERENCE.
3. PROVIDE EXTENDED ESCUTCHEON WHEN SURFACE MOUNTED FIXTURES PLACE ON THE CEILING CREATING AN OBSTRUCTION TO FIRE SPRINKLERS COVERAGE, SHALL COMPLY WITH NFPA 13 REQUIREMENTS.

LICENSED FIRE PROTECTION ENGINEER JOHN V. COLLINGS No. 1545 Exp. 06/30/17 STATE OF CALIFORNIA

Collings & Associates
Fire Protection Engineering
260 Maple Court, Suite 241, Ventura, Ca 93003
Phone:(805) 658-0003 Fax:(805) 658-0044
www.collingsandassociates.com

REVISIONS / DESCRIPTION	DATE	BY
1		
2		
3		
4		

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FIRE PROTECTION ENGINEER:
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Collings & Associates LLC
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(805) 658-0003
jcollings@collingsandassociates.com

ADMINISTRATION

FIRE SPRINKLER T.I. PLAN

SHEET NAME :

23 JUNE 2017

DATE :

1" ACTUAL

IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ACTUAL MEASUREMENT OF ALL LABELED SCALES.

AS SHOWN

SCALE:

11 - 003

PROJECT :

FP-1.0

SHEET NUMBER : 1 OF 1