BIDDING INFORMATION AND OTHER INFORMATION PREPARED BY THE ARCHITECT, THE ARCHITECT'S THE CONTRACT DOCUMENTS, THE INFORMATION CONTAINED IN THE WRITTEN SPECIFICATIONS SHALL TAKE PRECEDENCE OVER THE DRAWINGS, AND FURTHER, LARGE SCALE DETAIL DRAWINGS SHALL TAKE

PROJECT INFORMATION

PARCEL NUMBER: 078-0-050-360

ZONING: R-1-7

CONSTRUCTION TYPE: V-B (SPRINKLERED)

REVIEW AGENCIES CITY of VENTURA:

TYP. ARCH. SYMBOLS

OCCUPANCY TYPE: **B**

(SEE SHEET A-200)

PLANNING DIVISION COUNTER:

ROOM 117, VENTURA CITY HALL

INSPECTION SERVICES COUNTER

DRAWING NUMBER

X \ COMPANY DRAWING NUMBER

A-X SHEET NUMBER

- SHEET NUMBER

501 POLI STREET

(805) 654-7893

(805) 654-7869

\A-X /**←**

ENLARGED DETAIL

VENTURA, CALIF. 93001

(BUILDING and SAFETY):

OCCUPANCY LOAD: TOTAL = 57

GROSS BLDG AREA: 3,696 S.F.

BUILDING ADDRESS: 4900 LOMA VISTA ROAD,

VENTURA, CA 93003

UTILITIES:

(805) 667-6500

(805) 339-4300

(805) 654-7811

DOOR and WINDOW SYMBOLS

⟨W1⟩ **←**

KEY NOTE SYMBOL

——— DOOR SYMBOL

WINDOW SYMBOL

COMMUNITY DEVELOPMENT:

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 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.

BUILDING CODE (CBC), AS WELL AS WITH ALL OTHER APPLICABLE FEDERAL REGULATIONS, STATE CODES,

ARE TO BE USED FOR CONSTRUCTION ON THIS PROJECT. CONTRACTORS USING OTHER THAN THE APPROVEI

OR TO THE CENTERLINE OF WALLS, UNLESS NOTED OTHERWISE. DIMENSIONS TO FINISH SURFACES SHALL BE

DO NOT SCALE THE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN TH FIELD, AND SHALL IMMEDIATELY REPORT ANY DISCREPANCIES OR VARIATIONS TO THE ARCHITECT AND TO THE OWNER'S REPRESENTATIVE.

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.

ALL GLAZING SHOWN TO BE INSTALLED IN HAZARDOUS AREAS SHALL COMPLY WITH THE PROVISIONS OF CBC

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.

5. 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.

. WALL AND CEILING MATERIALS SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN CBC, TABLE

8. 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

. The architect or engineer shall perform on-site observations for compliance with the plans AND SPECIFICATIONS.

). 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

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.



MAINTENANCE & OPERATIONS - BUILDING C

VENTURA COUNTY COMMUNITY COLLEGE DISTRICT DEPARTMENT OF MAINTENANCE & OPERATIONS

4900 Loma Vista Road, Ventura, CA 93003

ABBREVIATIONS

CONT

CU. FT.

DEMO

DIA.

DIM

DWG

ENCL

FOF

FOM

FOS

COL COLUMN

CONCRETE

CONTINUOUS

CUBIC FEET PER MINUTE

DEMOLISH, DEMOLITION

CUBIC FEET

DIAMETER

DIMENSION

DISPENSER

DIVIDE, DIVISION

DOUBLE HUNG

DOWN SPOUT

DEPTH

DRAWING

EXISTING

EQUAL

EXTERIOR

DOUGLAS FIR

ENCLOS(UR)E

FACE OF FINISH

FACE OF STUD

FACE OF MASONRY

CONCRETE MASONRY UNIT (BLOCK)

Pierpont Bay

ANCHOR BOLT

ASSEMBLY

ALTERNATE

ALUMINUM

ANNOD. ANNODIZED

CAB'T

CSMNT.

CLG

C.T.

CLR

CLG HT

ARCH('L) ARCHITECT(URAL)

AUTOMATIC

BETWEEN

BOTTOM

BUILDING

CABINET

CEILING

CEILING HEIGHT

CERAMIC TILE

CLEAR(ANCE)

CASEMENT

CABLE TELEVISION

BUILT UP ROOF

BENCHMARK

AIR CONDITIONING

FIRE PROTECTION FP-1.0 FIRE SPRINKLER T.I. PLAN **OWNER & CONSULTANTS CODE REQUIREMENTS VICINITY MAP** PROJECT LOCATION **APPLICABLE** REGULATORY CODES (NON EXCLUSIVE) PLANNING and ZONING CODE: Ventura County CALIF. BUILDING CODE: Community College District - 2016 EDITION CALIF. MECHANICAL CODE: - 2016 EDITION 255 W. Stanley Avenue, Suite 150 CALIF. PLUMBING CODE:-- 2016 EDITION Ventura, CA 93001 -- 2016 EDITION CALIF. ELECTRICAL CODE: --- 2016 EDITION CALIF. FIRE CODE: CALIF. ENERGY CODE -- 2016 EDITION

LTWT LIGHT WEIGHT

LIN FT, L.F. LINEAL FOOT

O. C.

OPNG.

OPP

O.D.

PH

PL.

PWD

PTDF

PSI.

R/A

RWD

NEW

NATURAL WOOD FINISH

NOT IN CONTRACT

OUTSIDE DIAMETER

PLATE, PROPERTY LINE

PRESSURE TREATED DOUGLAS FIR

POUNDS PER SQUARE FOOT

POUNDS PER SQUARE INCH

NOT TO SCALE

ON CENTER

OPENING

OPPOSITE

PHONE

PLAS LAM PLASTIC LAMINATE

PARTITION

REDWOOD

RETURN AIR

revision, revised

O'HEAD OVERHEAD

FIN FLR FINISH FLOOR

GALV., G.I. GALVANIZED

FOOTING

FUTURE

GAGE, GAUGE

GLASS, GLAZING

GLASS BLOCK

HARD BOARD

HARDWOOD

HEAVY DUTY

HOLLOW CORE

HOLLOW METAL

INSIDE DIAMETER

HORIZONTAL

HOSE BIBB

INSULATION

INTERIOR

LENGTH

LIGHT

HEIGHT

FURNISHED BY OTHERS

FTG.

FUT.

GA.

GB

HDBD.

HORIZ

CALIF. GREEN BLDG. CODE ---**GENERAL BUILDING DATA** & CODE OCCUPANCY CLASSIFICATIONS AMERICAN WITH DISABILITIES ACT (ADA): VENTURA CURRENT SUPPLEMENTS to ABOVE as APPLICABLE

----- CITY OF VENTURA: R-1-7 PART OF VENTURA COUNTY COMMUNITY COLLEGE DISTRICT MASTER PLAN **OCCUPANCY GROUPS:-**-- "B" BUSINESS OFFICE

-- 2016 EDITION

CORPORATE BUSINESS (OFFICE) PRIMARY USE: -- TYPE V-B CONSTRUCTION: --MAX. HEIGHT and STORIES: -FIRE PROTECTION SYSTEM: -- SPRINKLERED

SEISMIC DESIGN CATEGORY: 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)

R. O.

SECT.

SIM

S.C.

SPEC(S)

SQ. FT.

ST'L.

SYS.

T&G.

TYP

VERT

WNDO.

 $\mathsf{W}\,\mathsf{W}\,\mathsf{M}$

WD

RIGHT OF WAY

SINGLE HUNG

SOLID CORE

SPECIFICATION(S)

TUBE SECTION (STEEL)

TONGUE AND GROOVE

SQUARE FOOT

STAINLESS STEEL

STANDARD

THICKNESS

SYSTEM

TYPICAL

VERTICAL

WINDOW

WOOD

WALL HUNG

WELDED WIRE MESH

ROUGH OPENING

ROOF

SECTION

SIMILAR

STEEL

SHEET

ARCHITECT:

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

ELECTRICAL ENGINEERING:

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

SHEET INDEX

2016 CALIFORNIA GREEN NON-RESIDENTIAL MANDATORY MEASURE

2016 CALIFORNIA GREEN NON-RESIDENTIAL MANDATORY MEASURE

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REFLECTED CEILING PLAN

INTERIOR ELEVATIONS

INTERIOR ELEVATIONS

INTERIOR ELEVATIONS

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DETAILS & WALL SECTIONS

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ypical disabled access restroom details

FINISH SCHEDULE & DOOR SCHEDULE, TYPE & NOTES

COVER SHEET

REVISIONS / DESCRIPTION

GENERAL UPDATE PER JM REVIEW

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SERVICE AND ARE THE SOLE PROPERTY OF ROY E. COLBER

NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE DIRECT

ROY E COLBERT

1997 E. MAIN STREET

VENTURA, CA 93001

under my direct supervision.

VENTURA COUNTY

VENTURA COLLEGE

4667 Telegraph Road

Ventura, CA 93003

DEPARTMENT OF

MAINTENANCE &

4900 Loma Vista Road

PROJECT DIRECTORY

HVAC MECHANICAL / PLMB ENGINEER:

Ventura, CA 93003

ELECTRICAL ENGINEERING:

3251 Corte Malpaso #511

(805) 389-6520 x230 Office

FIRE PROTECTION ENGINEER:

260 Maple Court, Suite 241

VENTURA COLLEGE

jcollings@collingsandassociates.com

MAINTENENCE & OPERATIONS

INTERIOR TENANT IMPROVEMENT

Jack Collings, F.P.E. Collings & Associates LLC

Ventura, CA. 93003

(805) 658-0003

BUILDING C

Lucci & Associates

Ken Lucci

Camarillo, CA 93012

838 East Front Street

Ventura, CA 93001

Hugh McTernan Phone 805.653.1722

OPERATIONS

DISTRICT

COMMUNITY COLLEGE

ARCHITECTURE

PLANNING

805 / 650 . 9589 FX

ADD RR RELATED DWGS: ADA + IE FINAL CONSTRUCTION SUBMITTAL

MECHANICAL / PLMB ENGINEER:

A/E GROUP 838 East Front Street Ventura, CA 93001 Hugh McTernan 805.653.1722

FIRE PROTECTION ENGINEER:

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

jcollings@collingsandassociates.com

FIRE DEPARTMENT NOTES

PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED FOR THIS STRUCTURE. FIRE EXTINGUISHER SIZE AND LOCATION TO BE DETERMINED BY THE FIRE DEPARTMENT.

APPLICABLE SECTIONS OF THE UNIFORM FIRE CODE AND CALIFORNIA CODE OF REGULATIONS, TITLE 19.

2. THE STRUCTURE SHALL BE IN COMPLIANCE WITH THE

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 PLANSAND PERMITS, SUBMITTED TO AGENCIES BY FIRE **COVER SHEET**

10 JULY 2017 → 1" ACTUAL → ■

BEEN ENLARGED OR REDUCED, AFFECTING ACTUAL MEASUREMENT OF ALL LABELED SCAI AS SHOWN SES P 0107586 C16- 013

OF SHEETS

ARCHITECT PROJECT #:

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS

SHEET NUMBER:

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

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 in-
- g. Perimeter sediment control (perimeter silt fence, fiber rolls). h. Sediment trap or sediment basin to retain sediment on site. i. Stabilized construction exits.
- i. 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
- 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

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

State Architect pursuant to Section 105, comply with Section 5.106.4.2.

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

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 bicvcle 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

1. Covered, lockable enclosures with permanently anchored racks for

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

IABLE 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 sufficient capacity 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

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.

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.

1. Luminaires that qualify as exceptions in Section 140.7 of the California

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

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	В3	B4	B4
Luminaire back hemisphere is 0.5 – 1 MH from property line	B1	B2	В3	В3
Luminaire back hemisphere is less than 0.5 MH from property line	В0	В0	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

CHAPTER 5 NONRESIDENTIAL MANDATORY MEASURES

Division 5.3 – WATER EFFICIENCY AND CONSERVATION

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 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

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 wallmounted urinals shall not exceed 0.125 gallons per flush.

5.303.3.2.2 Floor-mounted urinals. The effective flush volume of floormounted 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. **5.303.3.2 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

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

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

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).

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.

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

Exception: Any project with an aggregate landscape area of 2,500 square

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

CHAPTER 5

NONRESIDENTIAL MANDATORY MEASURES

SECTION 5.305 WATER REUSE SYSTEMS (Reserved)

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. BALANCE. **BUILDING COMMISSIONING.**

ORGANIC WASTE.

SECTION 5.403 FOUNDATION SYSTEMS (Reserved)

(Reserved) SECTION 5.405 MATERIAL SOURCES

(Reserved)

SECTION 5.404

EFFICIENT FRAMING TECHNIQUES

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

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

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.

plus at least one of the following:

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

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

4. Specifies that the amount of construction and demolition waste

materials diverted shall be calculated by weight or volume, but not by **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.

waste material collected will be taken.

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.

2. Alternate waste reduction methods developed by working with local

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. 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.

construction documents.

by disease or pest infestation.

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

2. Mixed construction and demolition debris (C&D) processors can

be located at the California Department of Resources Recycling and

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

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.

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

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.

6. Documentation and training. 7. Commissioning report.

5. Functional performance testing.

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 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

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.

operation, and need for after hours operation. 5. Equipment and systems expectations. 6. Building occupant and operation and maintenance (O&M) personnel expectations.

4. Project program, including facility functions and hours of

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 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

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.

commissioning plan shall be completed to document how the project will

be commissioned. The commissioning plan shall include the following:

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- to system interface in accordance with the approved plans and specifications. Functional performance testing reports

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

shall contain information addressing each of the building components

(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 2. Site contact information. 3. Basic operations and maintenance, including general site operating

REVISIONS / DESCRIPTION GENERAL UPDATE PER JM REVIEW AUG 11, 2017 ADD RR RELATED DWGS: ADA + IE FINAL CONSTRUCTION SUBMITTAL AUG 31, 2017

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MAINTENENCE & OPERATIONS

INTERIOR TENANT IMPROVEMENT

BUILDING C 2016 CALIFORNIA **GREEN NON-**RESIDENTIAL MANDATORY

10 JULY 2017

MEASURES

1" ACTUAL → **AS SHOWN** SES

RCHITECT PROJECT #: **A-002**

C16-013

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS

P 0107586

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

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

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

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.

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

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 (L₁₋).

DECIBEL (dB). ENERGY EQUIVALENT (NOISE) LEVEL (L_{act}). **EXPRESSWAY**

FREEWAY.

GLOBAL WARMING POTENTIAL (GWP).

PRODUCT-WEIGHTED MIR (PWMIR)

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE).

HIGH-GWP REFRIGERANT. LONG RADIUS ELBOW.

LOW-GWP REFRIGERANT

MAXIMUM INCREMENTAL REACTIVITY (MIR).

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 Evennt 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

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

District Rule 1168, http://www.arb.ca.gov/DRDB/SC/CURHTML/R1168.

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
Aarine 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

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**

CURENT LIMIT

50

COATING CATEGORY

Flat coatings

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	730				
Opaque	550				
Specialty primers, sealers and under- coaters	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 exemp 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

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.

NZS 2269 or European 636 3S standards.

5. Other methods acceptable to the enforcing agency.

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/

FORMALDEHYDE LIMITS¹ 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

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

1. Certified under the Resilient Floor Covering Institute (RFCI)

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NONRESIDENTIAL MANDATORY MEASURES, SHEET 2

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

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

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

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 component 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

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

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_a or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general

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_a-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 -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 highglobal-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

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.

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

Exception: Single-flared tubing connections may be used with a multiring

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

limitations prohibit use of long radius elbows.

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

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel

and the relief valve inlet to indicate a disc rupture or discharge of the relief

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 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place. **5.508.2.2.2.1 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

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.

regulated dry nitrogen and appropriate tracer gas to bring system pressure

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.

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.

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum

CHAPTER 7 INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installa 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.
- they are inspecting for compliance with this code. 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

Special inspectors shall be independent entities with no financial interest in the materials or the project

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are

agency. The area of certification shall be closely related to the primary job function, as determined by

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.

SPECIFICATIONS, HAVE BEEN PREPARED ON THE BASIS OF DATA COMPILED AND FURNISHED BY OTHERS. ROY E. COLBERT ARCHITECT SHALL NOT BE RESPONSIBLE FOR ERRORS AND OR INCORPORATED INTO THIS DOCUMENT. THESE DRAWINGS AND SPECIFICATIONS. AND THE INCORPORATED IDEAS AND DESIGNS, CONSTITUTE AN INSTRUMENT OF PROFESSIONAL SERVICE AND ARE THE SOLE PROPERTY OF ROY E. COLBERT.

REVISIONS / DESCRIPTION

GENERAL UPDATE PER JM REVIEW

ADD RR RELATED DWGS: ADA + IE FINAL CONSTRUCTION SUBMITTAL

AUG 11, 2017

AUG 31, 2017

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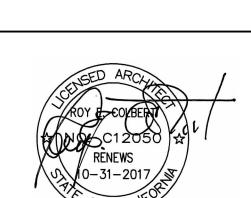
ARCHITECTURE PLANNING **DESIGN**

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VENTURA COLLEGE MAINTENENCE & OPERATIONS INTERIOR TENANT IMPROVEMENT **BUILDING C**

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2016 CALIFORNIA **GREEN NON-**RESIDENTIAL MANDATORY **MEASURES**

10 JULY 2017

1" ACTUAL → AS SHOWN

> C16-013 P 0107586 RCHITECT PROJECT #:

A-003

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHE

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

 COORDINATE INSTALLATION OF TELECOMMUNICATIONS, DATA AND SECURITY SYSTEMS.

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

B. 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

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.

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

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,

ALL ELECTRIC PANELBOARDS AND SWITHBOARDS SHALL BE LOCATED IN IN DEDICATED SPACES.

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).

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)).

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-

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,

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)

 $htag{-}_{1}$ 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)).

. 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.

CONTROLS & OPERATING MECH.

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

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.

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.

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.

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)

. 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

COMPLY WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS PERTAINING TO SAFETY OF PERSONS, PROPERTY AND ENVIRONMENTAL PROTECTION

PROVIDE AND MAINTAIN BARRICADES, LIGHTING AND GUARDRAILS AS REUQIRED BY APPLICABLE CODES AND REGULATIONS TO PROTECT OCCUPANTS OF BUILDING AND WORKERS.

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

. IF DEMOLITION IS PERFORMED IN EXCESS OF THAT REQUIRED: RESTORE EFFECTED AREAS AT NO COST TO THE OWNER.

. REMOVE FROM SITE DAILY AND LEGALLY DISPOSE OF REFUSE, DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS.

REMOVE DESIGNATED PARTISION, COMPONENTS, BUILDING EQUIPMENT, AND FIXTURES AS REQUIRED FOR NEW WORK.

REMOVE ABANDONED HVAC EQUIPMENT, INCLUDING DUCTWORK.

8. REMOVE ABANDONED ELECTRICAL TELEPHONE AND DATA CABLING AND DEVICES, U.O.N

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) 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): 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)

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.

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 . 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,

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

TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.

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**

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

 $6\cdot$ 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 SHALI

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

NOT REQUIRE TIGHT GRASPING, PUNCHING, OR TWISTING OF THE WRIST. FORCE REQUIRED

10. 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)

OPEN FOR AT LEAST 10 SECONDS.

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.

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.

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.

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

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.

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.

CHANGES IN LEVEL UP TO 1/4 INCH MAY BE VERTICAL AND WITHOUT EDGE TREATMENT

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 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. 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. 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.

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.

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.

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.

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.

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.

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

3. 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. . 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.

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

15. CENTER ELECTRICAL RECEPTACLE OUTLETS NOT LESS THAN 15" ABOVE THE

17. ENTRY TO SANITARY FACILITIES: A. 44" CLEAR AISLES OR CORRIDORS WHERE OCCUPANT LOAD IS 10 OR

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

(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". I. 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

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

. 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.

CONFLICT, CONSULT THE ARCHITECT.

OF MOT MORE THAN 450.

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

8. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. IN CASE OF

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

3. 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.

ON DRAWINGS, AND ADDITIONAL SIGNS AS REQUIRED BY BUILDING DEPARTMENT

INSPECTOR OR FIRE DEPARTMENT FIELD INSPECTOR. CONNECT EXIT SIGNS TO

2. PROVIDE EXIT SIGN WITH 6" LETTERS OVER REQUIRED EXITS, WHERE SHOWN

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

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

COMPLY WITH BUILDING CODES

LEVER HANDLES.

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

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.

13. WHEN APPLICABLE, EMERGENCY WARNING SYSTEMS SHALL ACTIVATE A MEANS OF

WARNING FOR THE HEARING IMPAIRED. FLASHING VISUAL WARNING SHALL HAVE A

12. WHEN APPLICABLE, LOCATE THE CENTER OF FIRE ALARM INITIATING DEVICES 48" ABOVE TH LEVEL OF THE FLOOR. WORKING PLATFORM, GROUND SURFACE OR SIDEWALK

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

FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE AND SHALL BE SYNCRONIZED.

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

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

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

1004.1.1 SEC. 1015.1).

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 ROY E COLBERT VISIBLE, DURABLE SIGN ON OR ADJACENT TO THE DOOR WHICH STATES: "THIS DOOR TO REMAIN UNLOCKED DURIN **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 LEVE EXIT DOOR SHALL BE IDENTIFIED BY A TACTIL (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

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

EXIT SIGN.

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

NOT BE LESS THAN 44 INCHES IN WIDTH. CORRIDORS SERVING AN OCCUPANT LOAD OF VENTURA COUNTY 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

OCCUPANT LOAD OF TEN (10) OR MORE SHAL

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 MAINTENANCE & EXISTING HANDICAP PARKING AND PATH OF

TRAVEL SERVING THE TENANT SPACE IN THIS

BUILDING.

REVISIONS / DESCRIPTION GENERAL UPDATE PER JM REVIEW AUG 11, 2017

ADD RR RELATED DWGS: ADA + IE FINAL CONSTRUCTION SUBMITTAL JG 31, 2017

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RENEWS `0_31-2017/√ under my direct supervision.

COMMUNITY COLLEGE DISTRICT

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DEPARTMENT OF

Ventura, CA 93003

ELECTRICAL ENGINEERING:

Lucci & Associates

A/E GROUP

838 East Front Street

Ken Lucci (805) 389-6520 x230 Office

> jcollings@collingsandassociates.com VENTURA COLLEGE

TENANT

—1" ACTUAL

→ **AS SHOWN**

> RCHITECT PROJECT #: VCCCD PROJECT #:

P 0107586

C16- 013

OF SHEETS

VENTURA COLLEGE

OPERATIONS 4900 Loma Vista Road

PROJECT DIRECTORY

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HVAC MECHANICAL / PLMB ENGINEER:

Ventura, CA 93001 Hugh McTernan Phone 805.653.1722 FIRE PROTECTION ENGINEER: Jack Collings, F.P.E. Collings & Associates LLC

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Ventura, CA. 93003

(805) 658-0003

MAINTENENCE & OPERATIONS INTERIOR TENANT IMPROVEMENT **BUILDING C**

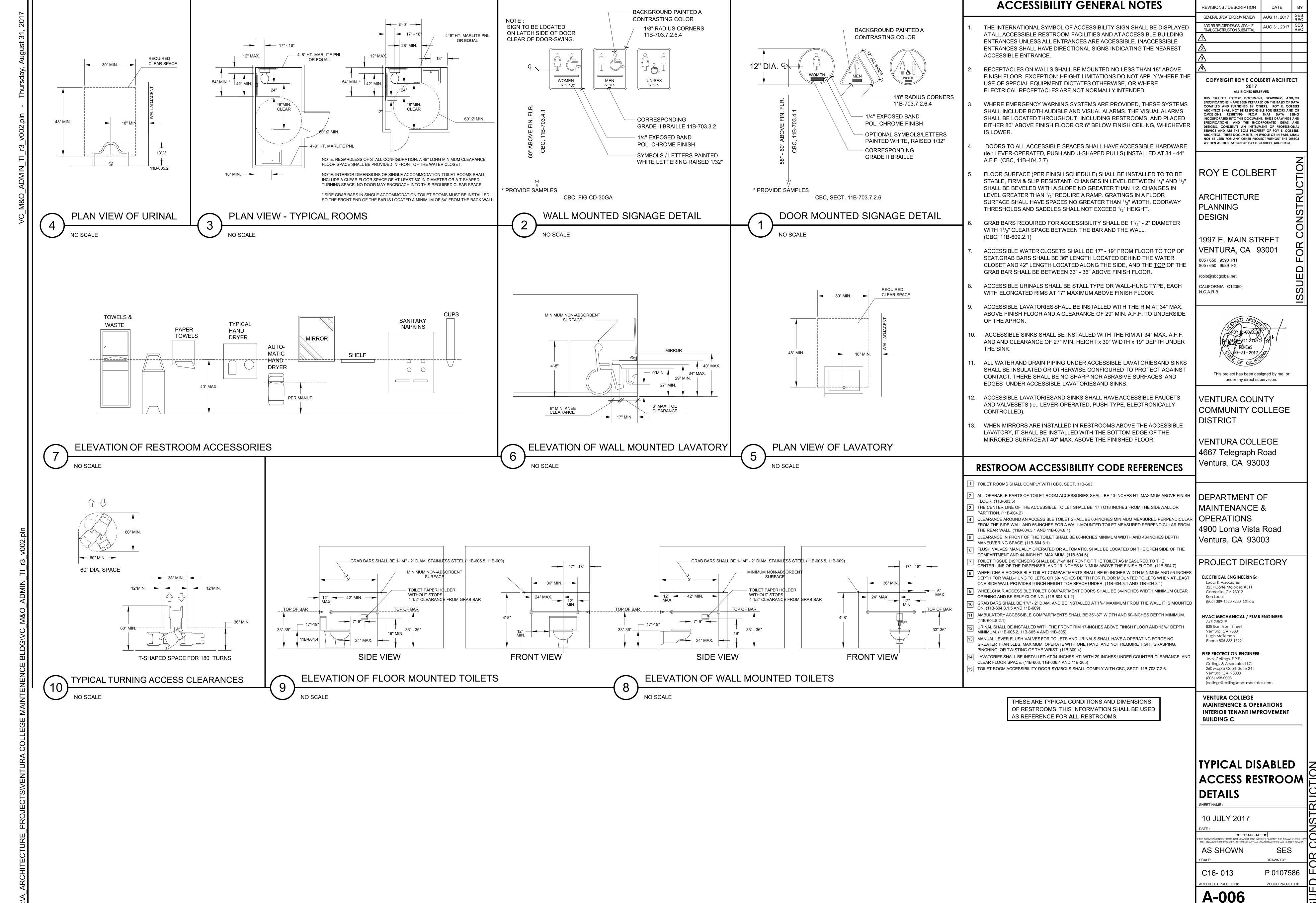
(IMPROVEMEN) **GENERAL NOTES**

10 JULY 2017

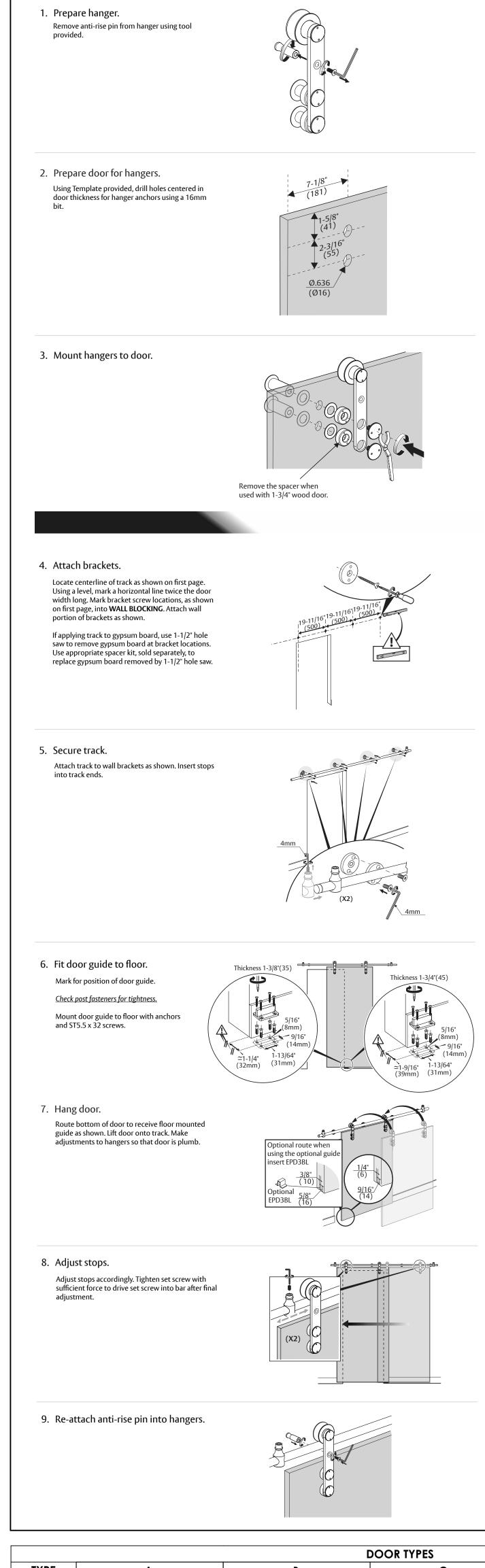
SES DRAWN BY:

A-004

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS SHEET NUMBER:

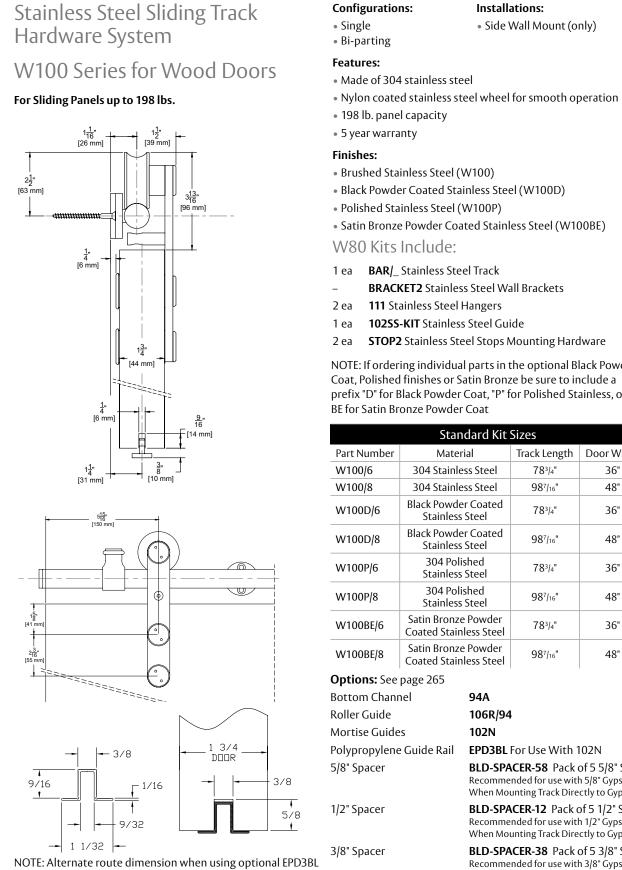


THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS



PEMKO W100 SERIES - INSTALLATION INSTRUCTIONS





[96 mm]		iinless Steel (V e Powder Coat Include:	,	ess Steel (W10	OOBE)
14 [6 mm]	BRACI2 ea 111 St1 ea 102SS	Stainless Stee KET2 Stainless ainless Steel H -KIT Stainless 2 Stainless Stee	Steel Wa angers Steel Gui	de	lware
14 [44 mm] 14 [44 mm] 15 [44 mm]	NOTE: If order Coat, Polished prefix "D" for E BE for Satin Br	l finishes or Sa Black Powder C	tin Bronz Coat, "P" f	e be sure to ir	iclude a
[14 mm]		Stanc	lard Kit !	Sizes	
	Part Number	Materia	al	Track Length	Door Width
14" 3" 10 mm]	W100/6	304 Stainles	s Steel	783/4"	36"
[Ormin] []	W100/8	304 Stainles		987/16"	48"
5 <mark>15</mark> " [150 mm]	W100D/6	Black Powder Stainless S		783/4"	36"
	W100D/8	Black Powder Stainless S		987/16"	48"
	W100P/6	304 Polis Stainless S		783/4"	36"
•	W100P/8	304 Polis Stainless S		987/16"	48"
	W100BE/6	Satin Bronze Coated Stainle		783/4"	36"
	W100BE/8	Satin Bronze Coated Stainle		987/16"	48"
	Options: See	page 265			
	Bottom Chani	nel	94A		
	Roller Guide		106R/94		
	Mortise Guide		102N		
- 3/8 - 1 3/4 1 3/4 1 3/4	Polypropylene	e Guide Rail	EPD3BL I	For Use With 1	102N
1/16	5/8" Spacer		Recomme	CER-58 Pack of the contract of	n 5/8" Gypsum B

		Stairiness Steet							
	W100BE/6	Satin Bronze Coated Stain		783/4"	36"				
	W100BE/8	Satin Bronze Powder Coated Stainless Steel		987/16"	48"				
	Options: See	page 265							
	Bottom Chann	nel	94A						
	Roller Guide		106R/94	ļ					
	Mortise Guide	es .	102N						
	Polypropylene	ypropylene Guide Rail		EPD3BL For Use With 102N					
8	5/8" Spacer		Recomme	nded for use witl	of 5 5/8" Spacer n 5/8" Gypsum Boar ctly to Gypsum Boa				
↓ 5/8 <u>†</u>	1/2" Spacer		BLD-SPACER-12 Pack of 5 1/2" Spa Recommended for use with 1/2" Gypsum When Mounting Track Directly to Gypsur						
PD3BL	3/8" Spacer	Recomm		nded for use witl	of 5 3/8" Spacer n 3/8" Gypsum Boar ctly to Gypsum Boa				

Side Wall Mount (only)

ASSA ABLOY

119

LOCKER RM

1st FLOOR

HINGED

		D	OOR TYPES		
TYPE	A	В	С	D	E
VIEW			3' 1'-6", EQL. , EQL. ,	3'-0"3'-0"	2'-6"2'-6"
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	NORTH	EAST	ALLS SOUTH	WEST	NORTH	BA EAST	SOUTH	WEST	CEILING	HEIGHT	REMARKS
000	ENTRY-LOBBY		SINAK - RELAY MICROTOPPING	NORIII		S NOTED OTHERWISE				NOTED OTHER		ACOUSTIC CEILING TILE	9'	
000	LINIK I-LODD I		OVR (E) SLAB	PAII	NT DUNN-EDWARDS	DE 6365 "COLD MOI	RNING"			L BASE 4" CO\		ACOUSTIC CLILING TILL	7	
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 INFORMA	ATION ON DOORS

				<u>R</u>						ORMATION ON DOOR	<u>2S</u>	
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/ TRANSLUSCENT 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		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

EXISTING

H.M. / PAINTED DE795

"GRAY PEARL"

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(805) 658-0003 jcollings@collingsandassociates.com **VENTURA COLLEGE MAINTENENCE & OPERATIONS**

INTERIOR TENANT IMPROVEMENT

FINISH SCHEDULE & DOOR SCHEDULE, TYPE & NOTES

10 JULY 2017

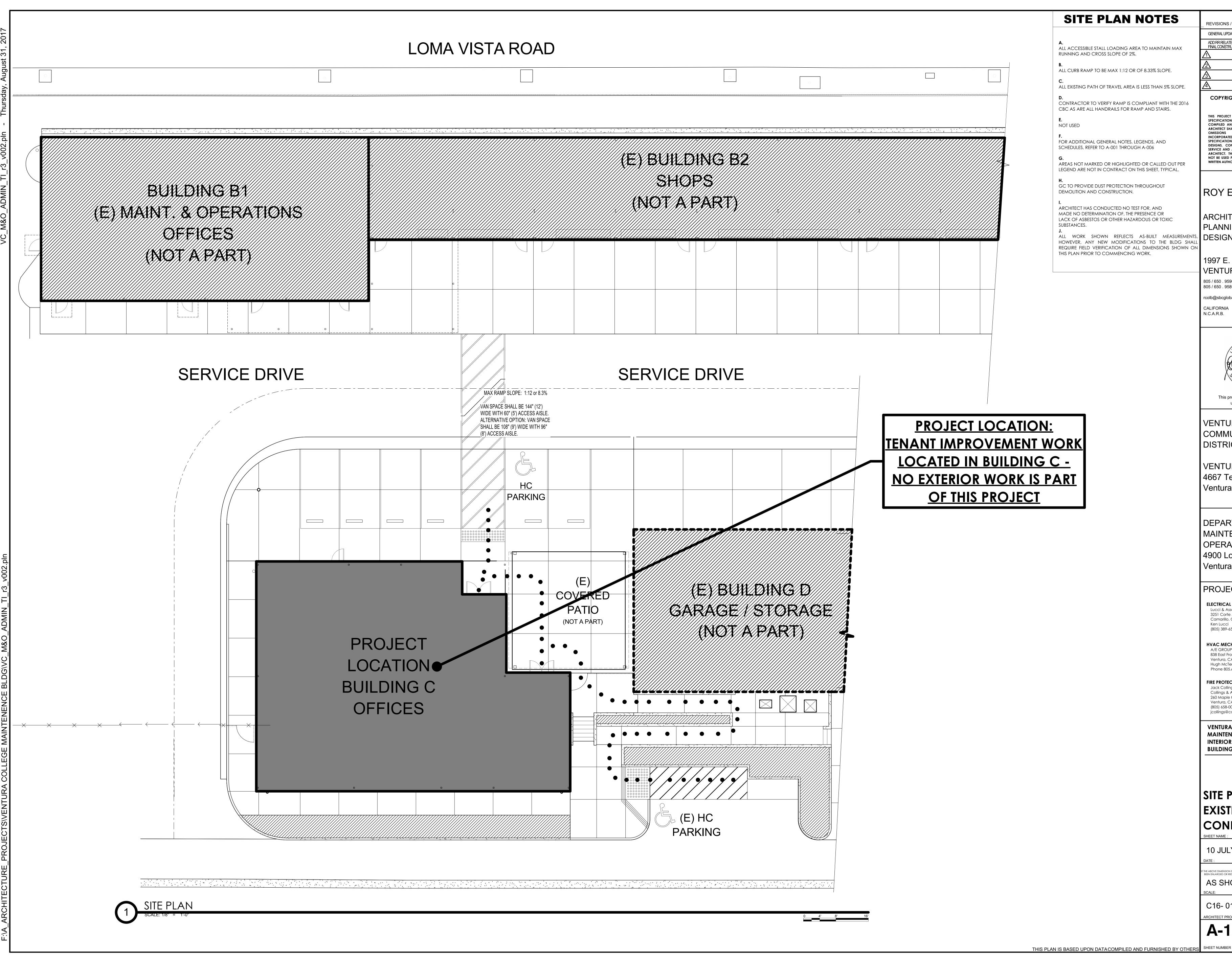
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ARCHITECT PROJECT #: **A-007**

PAINT TO MATCH OTHER NEW INTERIOR DOORS

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS SHEET NUMBER:



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VENTURA COLLEGE MAINTENENCE & OPERATIONS INTERIOR TENANT IMPROVEMENT **BUILDING C**

SITE PLAN W/ EXISTING

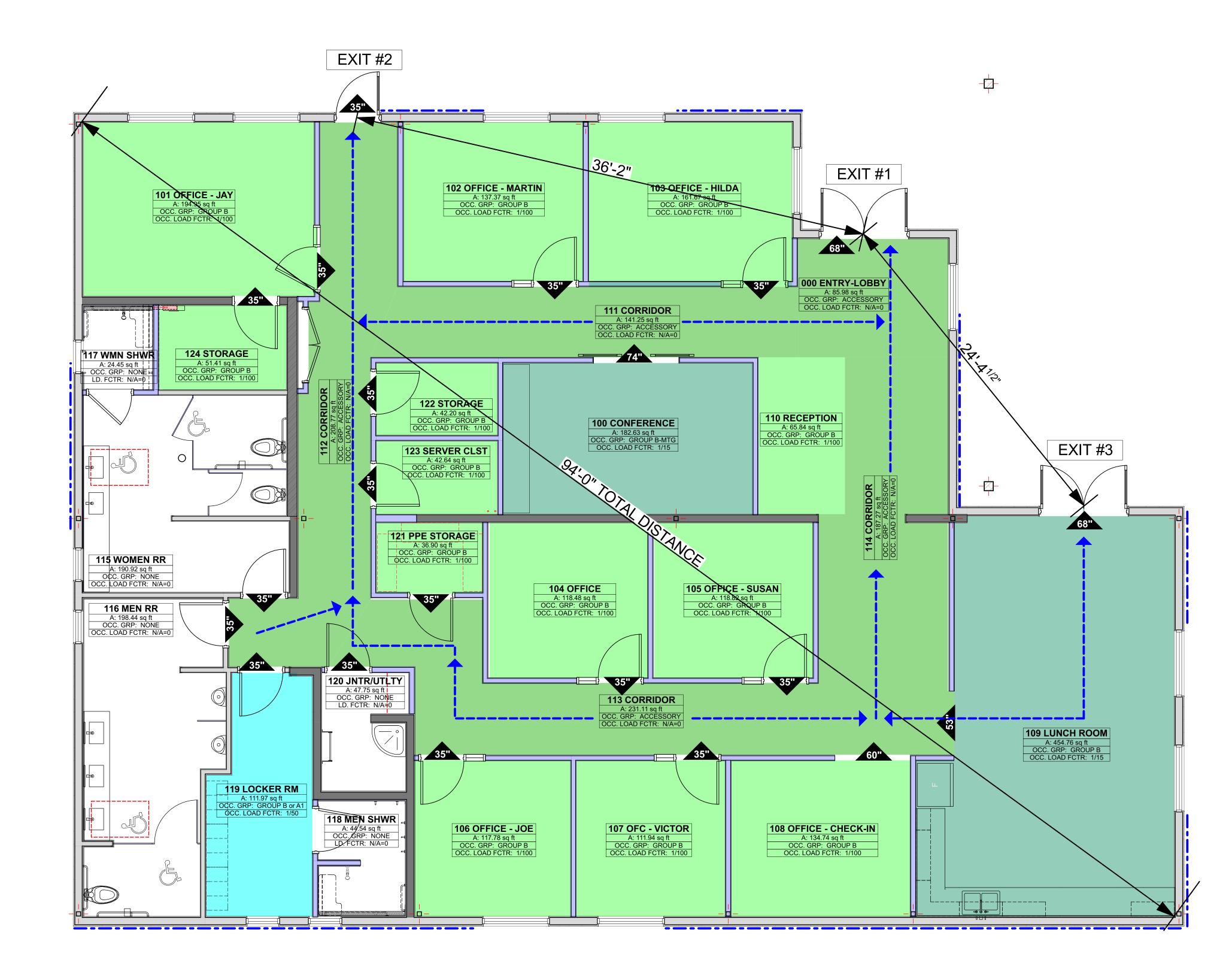
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C16- 013





RM#	ROOM NAME	OCCUPANCY BY ROUP 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

С	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 FLOOF	R: GROUP B - BUSINES	S 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 C	ALCULATIONS
BREAKDOWN OF OCCUPANT LOAD	: PER CBC SEC. 1004.1.1
TOTAL POSSIBLE OCCUPANTS (SEE CALCULATIONS THIS SHEET)	1 ST FLR: 57
	2 ^{CND} FLR: n/a

		First Floor	Second Floo
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

EGRESS NOTES

Α	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

- EXIT SIGNS ILLUMINATED BY AN EXTERNAL SOURCE SHALL HAVE AN INTENSITY OF NOT LESS THAN 5 FOOT CANDELS (54 LUX). 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. EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES.
- 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) 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 ANY NEW DOOR HANDLES, LOCKS AND OTHER OPERATING DEVICES SHALL BE INSTALLED AT A MIN. 34" AND A MAX. 48" ABOVE
- SIGNAGE STATING "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED" SHALL BE PLACED AT MAIN ENTRANCE TO INTERIOR OF OFFICE BUILDING.
- ALL EGRESS DOORS OPERATION SHALL ALSO COMPLY WITH CBC SECTION 1008.1.8-1008.1.8.6. 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. THE MEANS OF EGRESS ILLUMINATION LEVEL SHALL NOT BE LESS
- THAN 1 FOOT CANDLE AT THE WALKING SURFACE. 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

- AISLES AND UNENCLOSED EGRESS STAIRWAYS IN ROOMS AND SPACES THAT REUQIRED TWO OR MORE MEANS OF EGRESS; CORRIDORS, EXIT ENCLOSURES AND EXIT PASSAGEWAYS IN BUILDINGS REUQIRED TO HAVE TWO OR MORE EXITS; 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; INTERIOR EXIT DISCHARGE ELEMENTS, AS PERMITTED IN SECTION 1024.1, IN BUILDINGS WHICH REQUIRE TWO OR
- MORE EXITS. EXTERIOR LANDINGS, AS REQUIRED BY SECTION 1008.1.5, FOR EXIT DISCHARGE DOORWAYS IN BUILDINGS WHICH REQUIRE TWO OR MORE EXITS.
- 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. 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

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	

SIONS / DESCRIPTION	DATE	BY
RAL UPDATE PER JM REVIEW	AUG 11, 2017	SES REC
R RELATED DWGS: ADA + IE CONSTRUCTION SUBMITTAL	AUG 31, 2017	SES REC

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VENTURA COLLEGE MAINTENENCE & OPERATIONS INTERIOR TENANT IMPROVEMENT **BUILDING C**

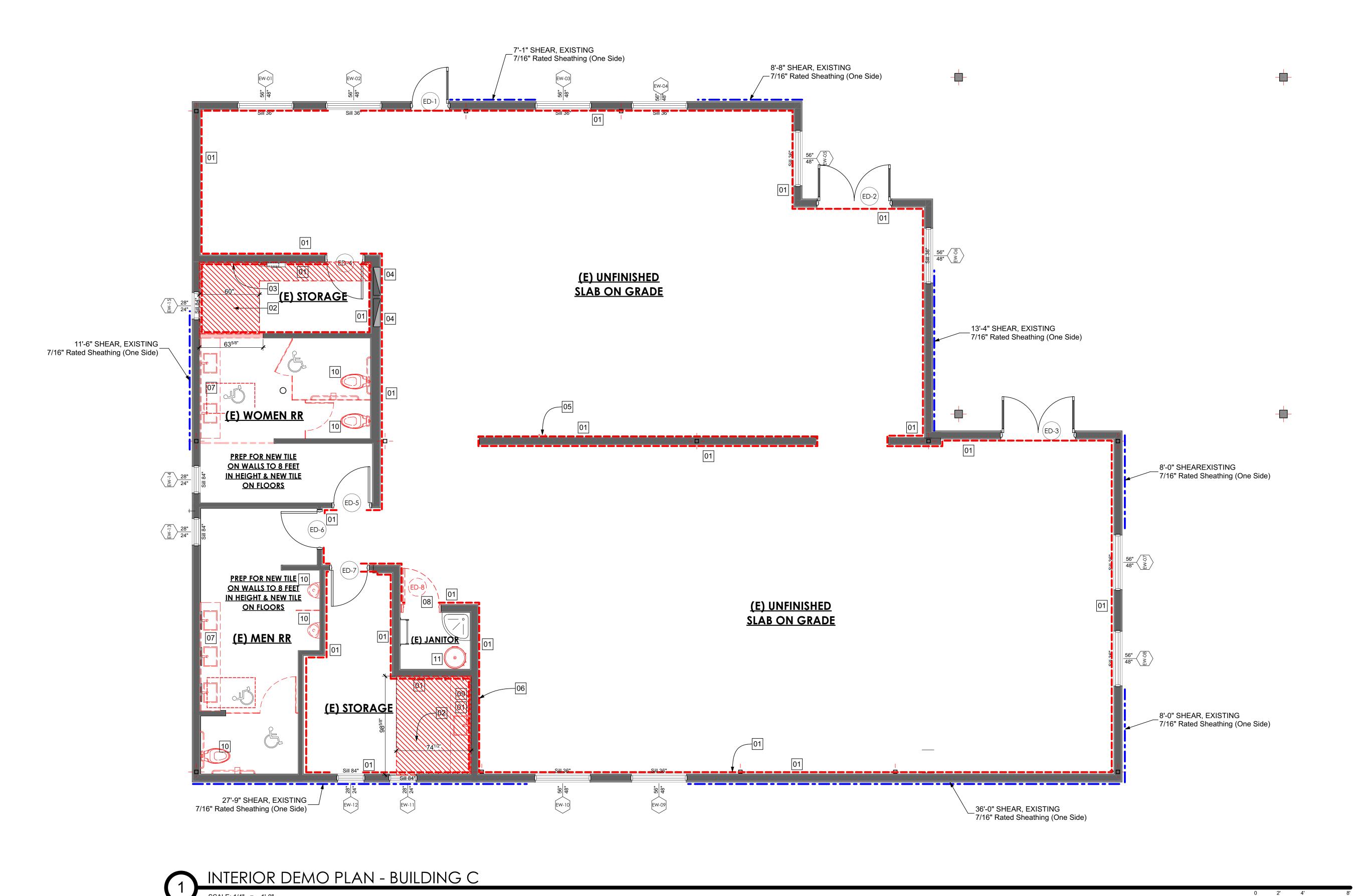
jcollings@collingsandassociates.com

EGRESS PLAN & OCCUPANCY

10 JULY 2017 THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL F BEEN ENLARGED OR REDUCED, AFFECTING ACTUAL MEASUREMENT OF ALL LABELED SCALE

AS SHOWN P 0107586 C16- 013

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS SHEET NUMBER



LEGEND

REMOVE PLYWOOD @ WALL -----DEMO WALL EXISTING WALL TO REMAIN GTH IN x'-x" OF EXISTING SHEAR (7/16" RATED SHEATHING) SHOWN PER EXISTING STRUCTURAL PLANS DEMO AREA - SLAB

DEMO PLAN NOTES REVISIONS / DESCRIPTION GENERAL UPDATE PER JM REVIEW AUG 11, 2017 ADD RR RELATED DWGS: ADA + IE FINAL CONSTRUCTION SUBMITTAL

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ROY E COLBERT

ARCHITECTURE PLANNING DESIGN

1997 E. MAIN STREET VENTURA, CA 93001

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.

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

DEMO KEY NOTES

PATCH WALL AND SLAB AS REQUIRED WHERE

DEMOLITION OCCURS. PREPARE SURFACES TO

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

IN PARTITIONS BEING DEMOLISHED: REMOVE ALL

ASSOCIATED POWER, TELE/DATA LINES, CABLING, ELECTRICAL SWITCHING, THERMOSTATS, AND

CONDUITS. SAFE-OFF POWER BACK TO SOURCE.

REMOVE ALL UNSECURED CABLING THROUGHOUT

REMOVE ALL HILTI SHOT PINS FROM FLOOR SLAB.

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

GC TO PROVIDE DUST PROTECTION THROUGHOUT

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

REQUIRED TO MEET CURRENT CODES.

PATCH AND REPAIR AS REQUIRED.

DEMOLITION AND CONSTRUCTION.

SUBSTANCES.

DEMOLITION AREAS. SECURE ALL REMAINING CABLING AS

AREAS NOT MARKED OR HIGHLIGHTED OR CALLED OUT PER

LEGEND ARE NOT IN CONTRACT ON THIS SHEET, TYPICAL.

RECEIVE NEW FINISHES.

NEW FINISH.

REMOVE ALL 3/8" PLYWOOD FROM INTERIOR WALLS TO $\stackrel{\smile}{\longrightarrow}$ 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 LECTRICAL 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. REMOVE (E) DOOR AND HINGES - JAM AND CASING TO REMAIN.

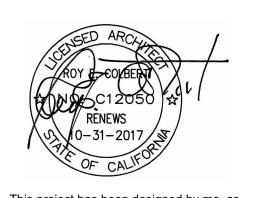
REMOVE (E) STAINLESS STEEL COUNTERTOP AND SINK.
CAP WASTE AND WATER LINES

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.

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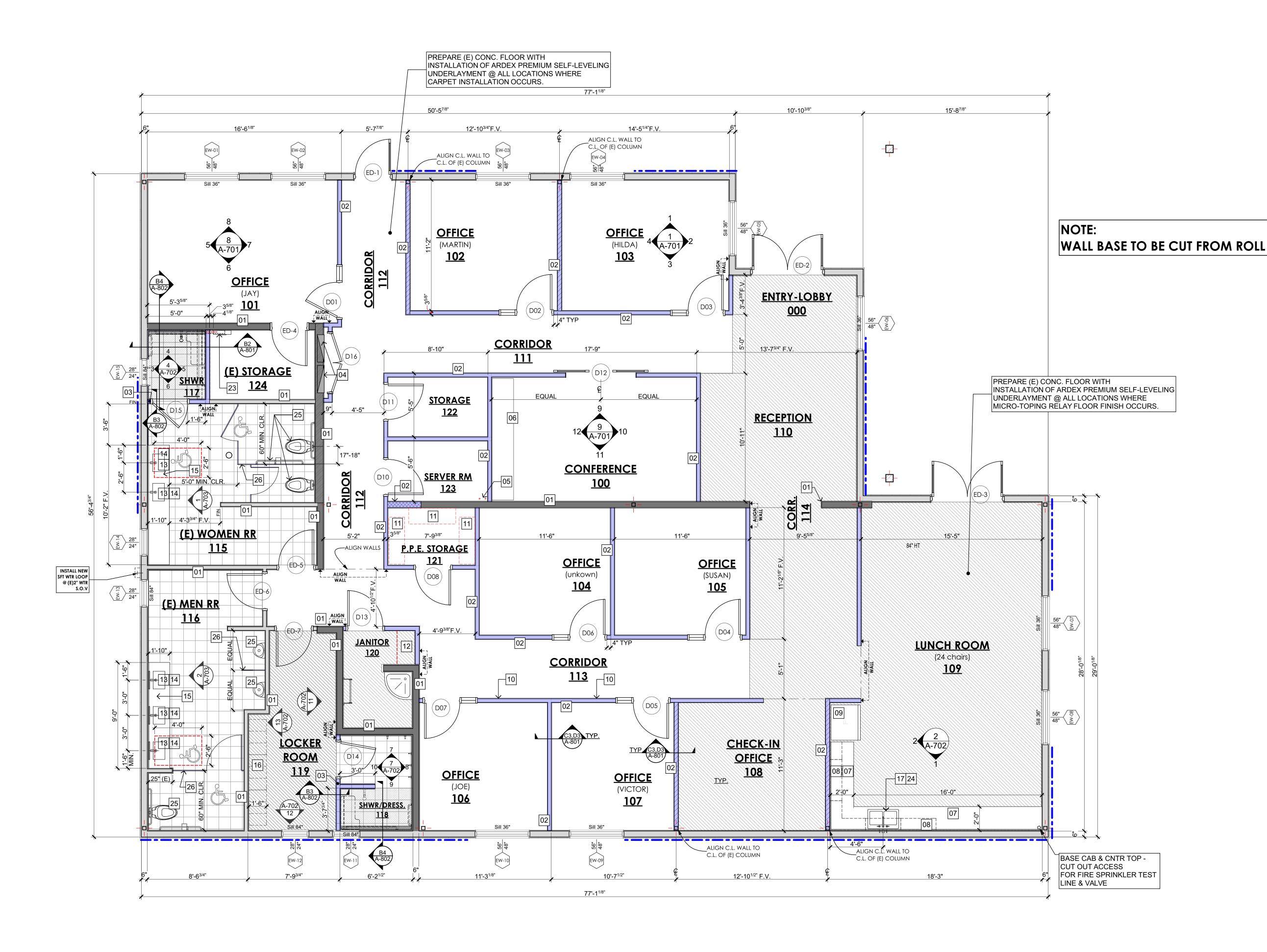
VENTURA COLLEGE MAINTENENCE & OPERATIONS INTERIOR TENANT IMPROVEMENT **BUILDING C**

DEMOLITION PLAN

10 JULY 2017

THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL H BEEN ENLARGED OR REDUCED, AFFECTING ACTUAL MEASUREMENT OF ALL LABELED SCALE P 0107586 C16- 013

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS SHEET NUMBER :



FLOOR PLAN - NEW INTERIOR LAYOUT

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 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,
- H. GC TO PROVIDE DUST PROTECTION THROUGHOUT DEMOLITION AND CONSTRUCTION.
- 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.
- . 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.
- 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
- 9 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.
- METAL SHELVING FOR SAFETY GEAR STORAGE -48"x16"x7" HEIGHT UNITS. BY OWNER
- 12 CUSTOM FIT SHELVING BY OWNER
- 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)
- COUNTER TOP: SOLID SURFACE BY DUPONT CORIAN "LAVA ROCK" PER SPECIFICATIONS o/ 3/4" PLYWOOD
- SEE DETAIL D4/A-802
- 16 LOCKERS BY OWNER
- 7 ELKAY CROSSTOWN 16 GUAGE STAINLESS STEEL 30-3/4" x 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.
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- 25 RE-INSTALL EXISTING TOILET, URINAL, AND/OR TOILET COMPARTMENT ACCESSORY PER COMPLIANT STANDARDS.
- 26 NEW TOILET COMPARTMENT PARTITIONS: $^{ t J}$ metpar corp. The corinthian, #fp-500ss 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	//
NICAL ALL CTO MALALI	

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

REVISIONS / DESCRIPTION GENERAL UPDATE PER JM REVIEW AUG 11, 2017 ADD RR RELATED DWGS: ADA + IE FINAL CONSTRUCTION SUBMITTAL

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ROY E COLBERT

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VENTURA COLLEGE **MAINTENENCE & OPERATIONS** INTERIOR TENANT IMPROVEMENT BUILDING C

jcollings@collingsandassociates.com

|FLOOR PLAN -**NEW INTERIORS**

10 JULY 2017

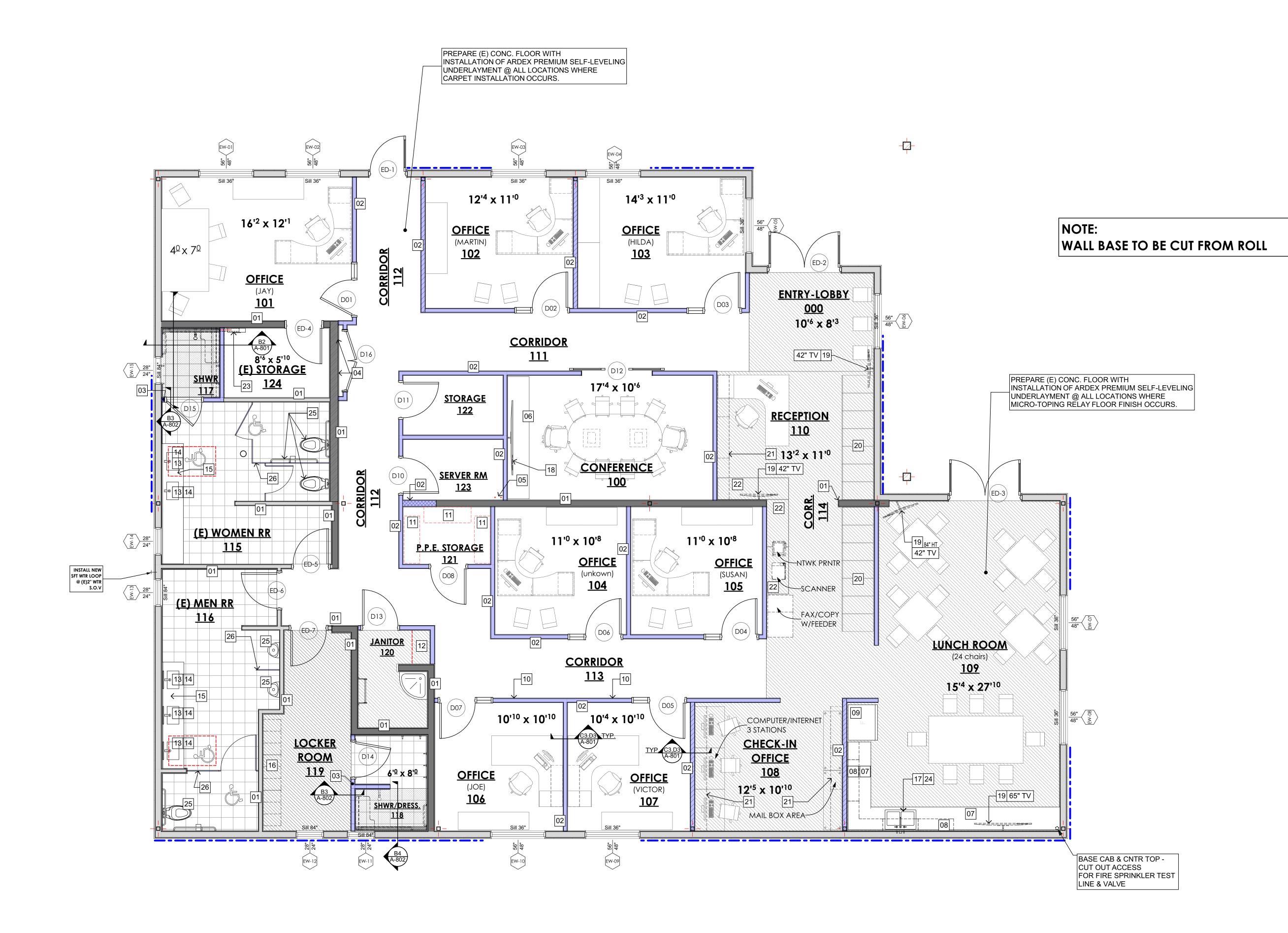
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AS SHOWN SES P 0107586 C16- 013

ARCHITECT PROJECT #: **A-202**

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS



NEW LAYOUT FLOOR PLAN W/ FURNITURE & FLOOR SURFACES

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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

REVISIONS / DESCRIPTION GENERAL UPDATE PER JM REVIEW AUG 11, 2017 ADD RR RELATED DWGS: ADA + IE FINAL CONSTRUCTION SUBMITTAL

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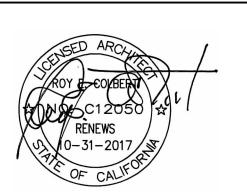
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VENTURA COLLEGE MAINTENENCE & OPERATIONS INTERIOR TENANT IMPROVEMENT BUILDING C

jcollings@collingsandassociates.com

FLOOR PLAN -FURNITURE PLAN & LAYOUT

10 JULY 2017

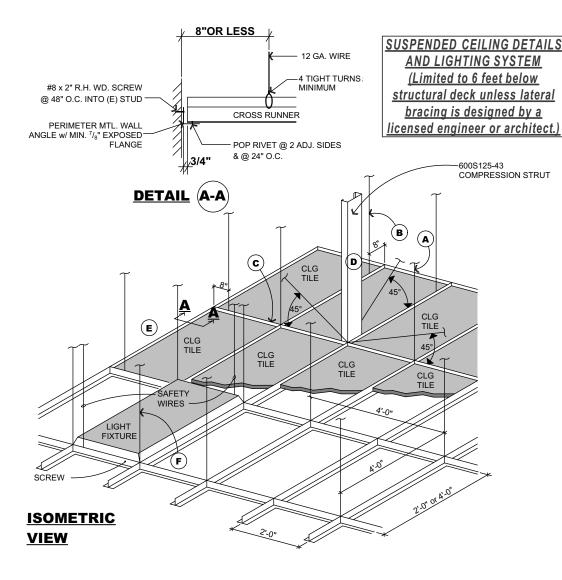
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P 0107586 C16- 013 ARCHITECT PROJECT #:

A-203

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



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

SEISMIC SPLAY WIRE INSTALLATION.

12 GAUGE WIRES SPLAYED IN FOUR (4) DIRECTIONS, 90° APART. PARALLEL TO CROSS AND MAIN RUNNERS, AND 45° FROM HORÌZONTAL, 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

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 3/4" 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. ATTACHADDITIONAL 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.

SUSPENDED CLNG DETAILS

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

° INSTALL 12 GA. WIRES TO SIDE OF DIMENSION LUMBER JOISTS OR RAFTERS WITH 1 1/4" Ø x 1 1/4" LENGTH EYE SCREW WITH FULL THREAD EMBEDMENT. DO NOT INSTALL EYE SCREW INTO

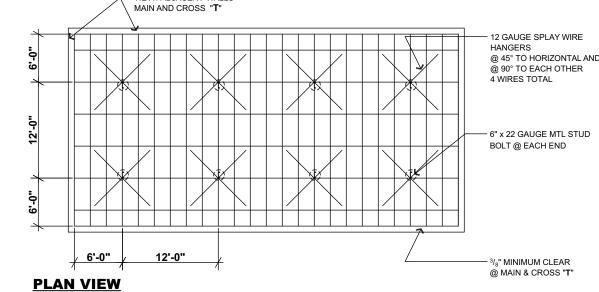
° SPECIAL INSPECTION IS REQUIRED FOR SUSPENDED T-BAR CEILING ASSEMBLIES AND

SIDES OF LAMINATED (GLU-LAM, MICRO-LAM, ETC.) JOISTS OR RAFTERS, INSTALL AT BOTTOM WITH FULL EMBEDMENT. $^{\circ}$ CEILING TILES SHALL BE $^{5}\!/_{8}$ MINIMUM THICKNESS MINERAL TILES WITH A FLAME SPREAD

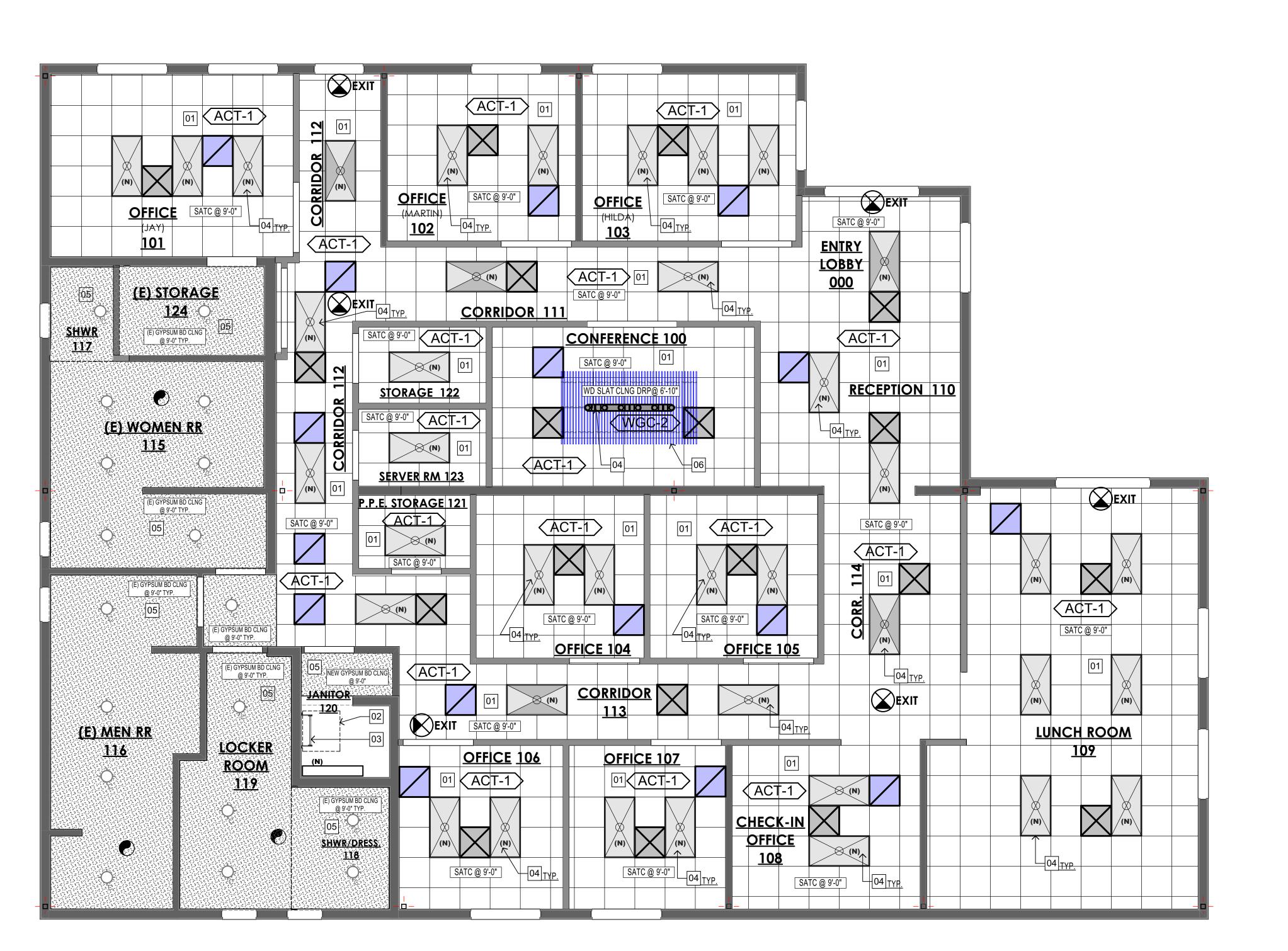
RATING OF <u>25</u> OR LESS. PROVIDE U.L. LABEL CERTIFICATION. ° CEILING TILES IN COMMERCIAL KITCHENS SHALL BE CLEANBLE AND WASHABLE AND SHALL COMPLY WITH ALL HEALTH DEPARTMENT REGULATIONS.

° 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 TIE AT ADJACENT WALLS



SUSPENDED CLNG DETAILS



REFLECTED CEILING PLAN - NEW LAYOUT

FLOOR PLAN NOTES

- A. COORDINATE ALL SWITCHES AND FACE PLATES PER ELECTRICAL DRAWINGS.
- B. REFER TO STANDARD CEILING INSTALLATION DETAILS FOR ADDITIONAL INSTALLATION.

REVISIONS / DESCRIPTION

GENERAL UPDATE PER JM REVIEW

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ROY E COLBERT

1997 E. MAIN STREET

VENTURA, CA 93001

This project has been designed by me, or

under my direct supervision.

VENTURA COUNTY

DISTRICT

COMMUNITY COLLEGE

VENTURA COLLEGE

4667 Telegraph Road

Ventura, CA 93003

DEPARTMENT OF

MAINTENANCE &

4900 Loma Vista Road

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HVAC MECHANICAL / PLMB ENGINEER:

Ventura, CA 93003

ELECTRICAL ENGINEERING:

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(805) 389-6520 x230 Office

FIRE PROTECTION ENGINEER: Jack Collings, F.P.E.

Collings & Associates LLC

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(805) 658-0003

BUILDING C

260 Maple Court, Suite 241

jcollings@collingsandassociates.com

MAINTENENCE & OPERATIONS

INTERIOR TENANT IMPROVEMENT

REFLECTED CEILING

—1" ACTUAL

→

SES

P 0107586

Lucci & Associates

Camarillo, CA 93012

838 East Front Street

Ventura, CA 93001

Hugh McTernan Phone 805.653.1722

Ken Lucci

A/E GROUP

OPERATIONS

ARCHITECTURE

PLANNING

305 / 650 . 9590 PH

305 / 650 . 9589 FX

colb@sbcglobal.net

CALIFORNIA C12050

N.C.A.R.B.

DESIGN

ADD RR RELATED DWGS: ADA + IE FINAL CONSTRUCTION SUBMITTAL

AUG 11, 2017

AUG 31, 2017

- C. REFER TO PROJECT GENERAL NOTES FOR ADDITIONAL CEILING NOTES.
- (SHEETS A-001 THROUGH A-006) D. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION ON
- **E.** ANY CONTINUOUS CEILING DOES NOT EXCEED 2500 S.F.

SUPPLY AIR & RETURN AIR DIFFUSERS.

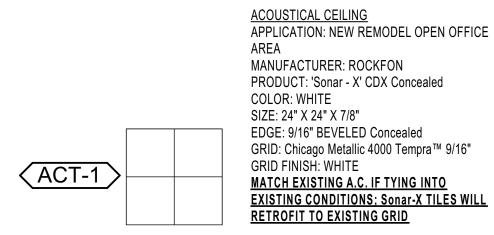
- F. LIGHTING AND DIFFUSER LOCATIONS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY. ALWAYS REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR CROSS REFERENCE AND SPECIFICATIONS. ANY CONFLICTING INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE COORDINATING ENGINEER PRIOR TO ORDERING OF 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.
- CONTRACTOR TO VERIFY ALL NEW WORK IS COMPLIANT WITH THE 2016
- . ALL WORK SHOWN REFLECTS AS-BUILT MEASUREMENTS, HOWEVER, ANY NEW MODIFICATIONS SHALL REQUIRE FIELD VERIFICATION OF ALL
- K. ALL DIMENSIONS ARE TO THE FACE OF METAL STUD UNLESS U.N.O.

DIMENSIONS SHOWN ON THIS PLAN PRIOR TO COMMENCING WORK.

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



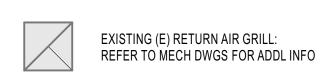


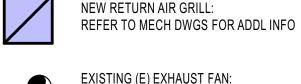


NEW SUSPENDED CEILING: ARMSTRONG "WOODWORKS GRILLE" 7265 W/ 5/8" SLATS



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

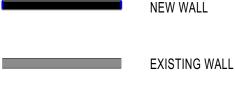




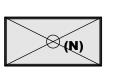
EXISTING (E) EXHAUST FAN: REFER TO MECH DWGS FOR ADDL INFO



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

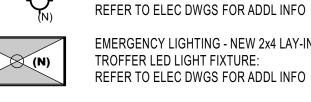


NEW SUSPENDED LIGHT FIXTURE FLUSH W/ SLAT CLG: REFER TO ELEC DWGS FOR ADDL INFO

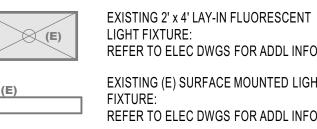


NEW 2x4 LAY-IN TROFFER LED: REFER TO ELEC DWGS FOR ADDL INFO EXISTING RECESSED CAN LIGHT FIXTURE: REFER TO ELEC DWGS FOR ADDL INFO

NEW RECESSED CAN LIGHT FIXTURE:



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



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



THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS

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

C16- 013 RCHITECT PROJECT #:

10 JULY 2017

AS SHOWN

A-501

REVISIONS / DESCRIPTION GENERAL UPDATE PER JM REVIEW AUG 11, 2017 ADD RR RELATED DWGS: ADA + IE FINAL CONSTRUCTION SUBMITTAL AUG 31, 2017

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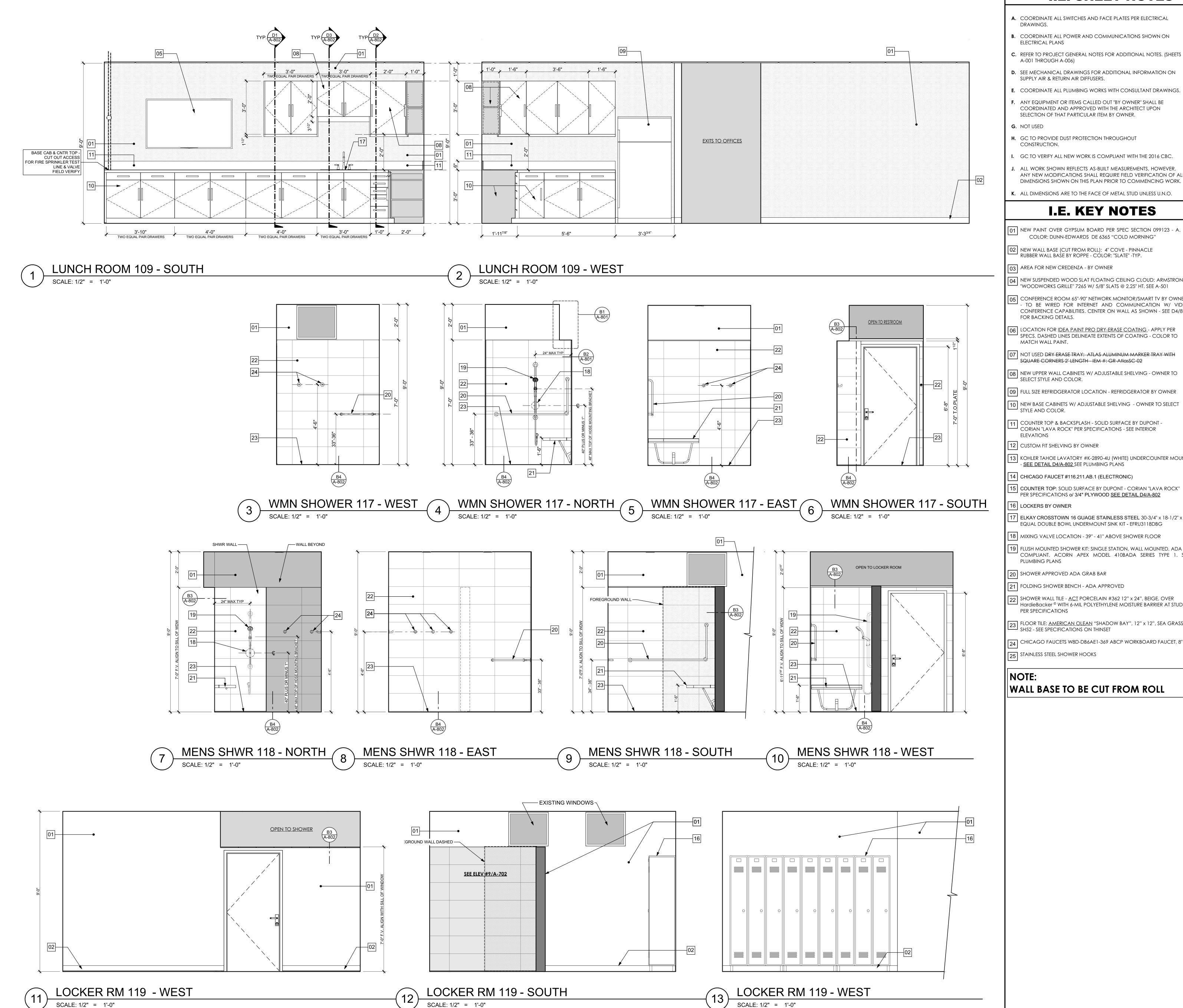
VENTURA COLLEGE **MAINTENENCE & OPERATIONS** INTERIOR TENANT IMPROVEMENT **BUILDING C**

INTERIOR ELEVATIONS

10 JULY 2017

AS SHOWN P 0107586 C16- 013

A-701



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.
- 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
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- 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 (CUT FROM ROLL): 4" COVE PINNACLE RUBBER WALL BASE BY ROPPE - CÓLOR: "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 <u>IDEA PAINT PRO DRY-ERASE COATING</u> 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.
- COUNTER TOP & BACKSPLASH SOLID SURFACE BY DUPONT CORIAN "LAVA ROCK" PER SPECIFICATIONS SEE INTERIOR
- 12 CUSTOM FIT SHELVING BY OWNER
- 13 KOHLER TAHOE LAVATORY #K-2890-4U (WHITE) UNDERCOUNTER MOUNT - <u>SEE DETAIL D4/A-802</u> 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. SE PLUMBING PLANS
- 20 SHOWER APPROVED ADA GRAB BAR
- 21 FOLDING SHOWER BENCH ADA APPROVED
- 22 SHOWER WALL TILE <u>ACT</u> 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

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS SHEET NUMBER

- CHICAGO FAUCETS W8D-DB6AE1-369 ABCP WORKBOARD FAUCET, 8"
- 25 STAINLESS STEEL SHOWER HOOKS

WALL BASE TO BE CUT FROM ROLL

REVISIONS / DESCRIPTION GENERAL UPDATE PER JM REVIEW AUG 11, 2017 ADD RR RELATED DWGS: ADA + IE FINAL CONSTRUCTION SUBMITTAL

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



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Ventura, CA. 93003 (805) 658-0003 jcollings@collingsandassociates.com VENTURA COLLEGE

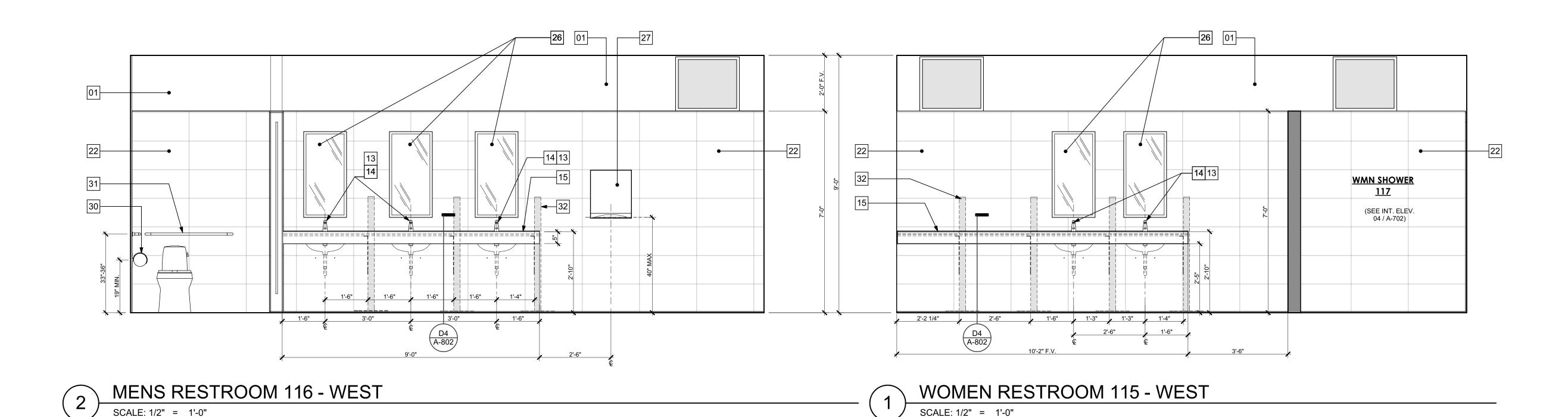
MAINTENENCE & OPERATIONS INTERIOR TENANT IMPROVEMENT **BUILDING C**

INTERIOR **ELEVATIONS**

10 JULY 2017

AS SHOWN SES P 0107586 C16- 013

A-702



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- O5 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 <u>IDEA PAINT PRO DRY-ERASE COATING</u> 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.
- 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 - <u>SEE DETAIL D4/A-802</u> 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
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- 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 <u>ACT PORCELAIN</u> #362 12" x 24", BEIGE, OVER HardieBacker © WITH 6-MIL POLYETHYLENE MOISTURE BARRIER AT STUDS FOR SHOWER LOCATIONS PER SPECIFICATIONS
- [23] FLOOR TILE: <u>AMERICAN OLEAN</u> "SHADOW BAY", 12" x 12", SEA GRASS, SH52 - SEE SPECIFICATIONS ON THINSET
- CHICAGO FAUCETS W8D-DB6AE1-369 ABCP WORKBOARD FAUCET, 8"
- 25 STAINLESS STEEL SHOWER HOOKS
- 26 MIRROR BRADLEY STANDARD MODEL 781-1836
- WAXIE "CLEAN & SOFT" #850593 TOWEL DISPENSER SURFACE MOUNT (SUPPLIED BY VENTURA COLLEGE)
- GEORGIA PACIFIC #56508 SOFTPULL TOILET TISSUE DISPENSER INSTALL BY CONTRACTOR
- GEORGIA PACIFIC #57710 SAF-T-GARD TOILET SEAT COVER DISPENSER -INSTALL BY CONTRACTOR
- BOBRICK CLASSIC SERIES #B-2888 TOILET TISSUE DISPENSER SURFACE MOUNT (AT ACCESSIBLE TOILET STALLS)
- 31 36" | X 1^{1/2"} DIAM. STAINLESS STEEL GRAB BAR @ 33"-36" A.F.F. (DISABLED
- 48" HEIGHT "SCAFCO STEEL PONYWALL SUPPORT" (DASHED) CONNECTED TO FABRICATED STEEL FLAT STOCK SUPPORT ASSEMBLY SEE DETAIL D4/ A-802 & SPECIFICATIONS FOR ANCHORING

	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
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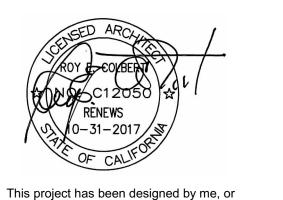
ROY E COLBERT

ARCHITECTURE PLANNING DESIGN

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colb@sbcglobal.net CALIFORNIA C12050 N.C.A.R.B.



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VENTURA COLLEGE MAINTENENCE & OPERATIONS INTERIOR TENANT IMPROVEMENT **BUILDING C**

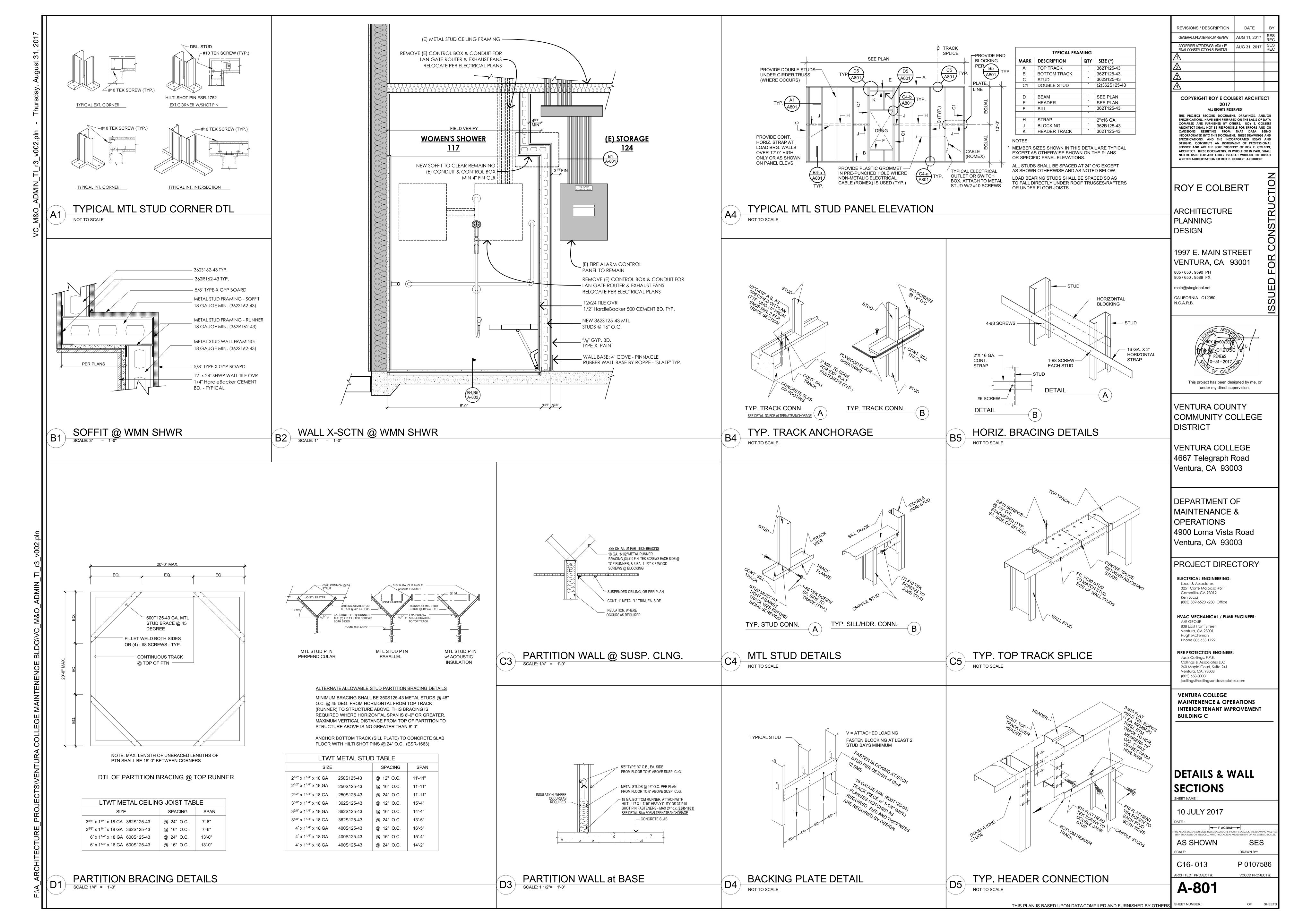
INTERIOR

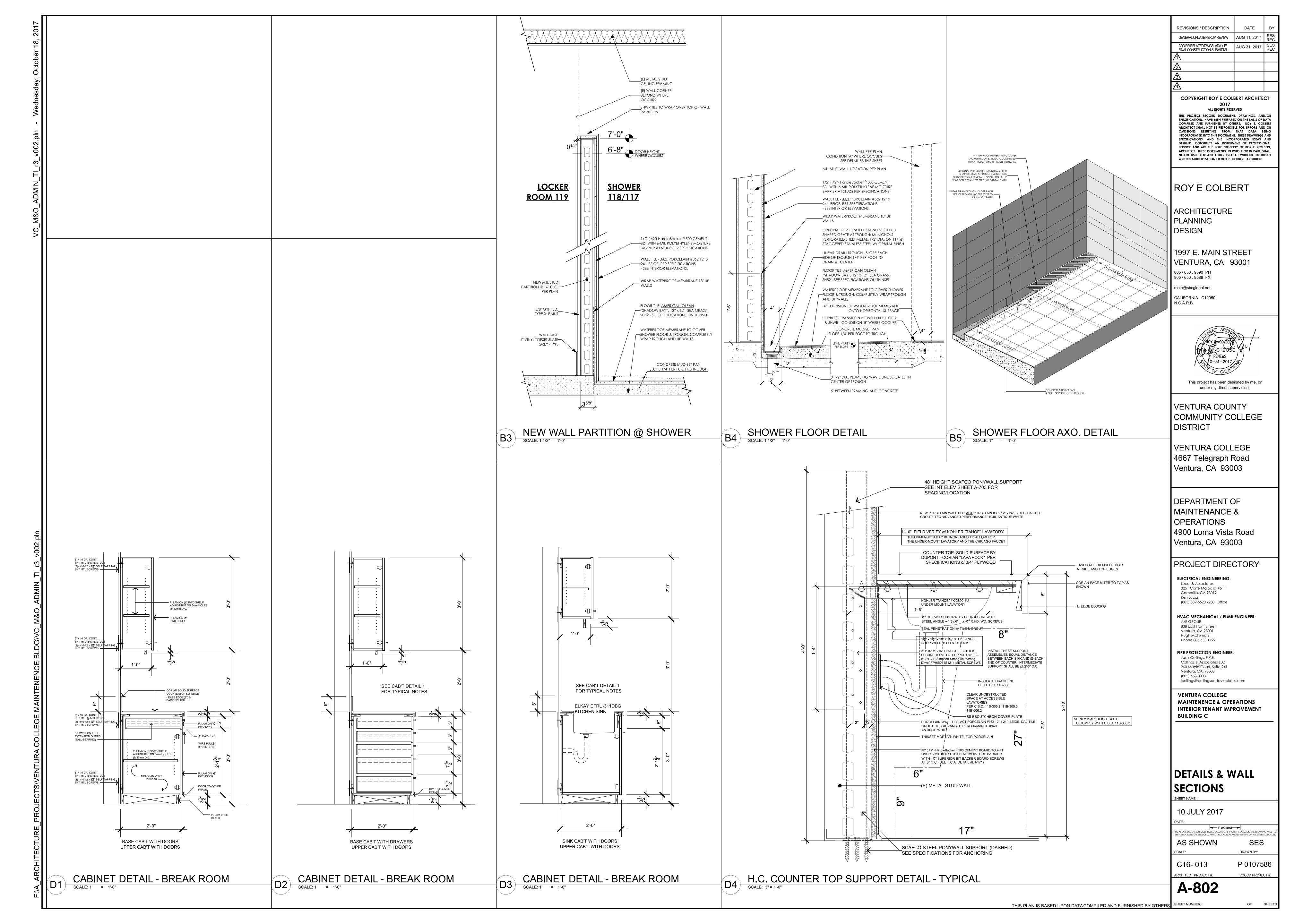
10 JULY 2017

AS SHOWN P 0107586 C16- 013

A-703

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS SHEET NUMBER





A. <u>GENERAL</u>

SYSTEMS AND EQUIPMENT.

MAY EXIST.

AGENCIES HAVING JURISDICTION.

MANUFACTURERS RECOMMENDATIONS.

FIXTURES OR ANY EQUIPMENT FROM PLANS.

MAN-HOURS REQUIRED FOR COMPLETION.

FINAL RETENTION OF ALL MONIES.

SHOP DRAWINGS

RECEPTACLES, ETC.

CONTRACTORS.

MATERIAL AND INSTALLATION

SWITCHES AND RECEPTACLES

MANUFACTURED WITHIN 6 MONTHS)

INSULATION, UNLESS OTHERWISE NOTED.

PHILIPS OR SYLVANIA AS STATED IN THE SCHEDULE.

PANELBOARDS (BID SQUARE D; PROVIDE GE ALTERNATE BID)

FEEDERS AND BRANCH CIRCUITS IDENTIFICATION

REPRESENTATIVE.

HE DRAWINGS AND THESE GENERAL NOTES DESCRIBE THE SCOPE OF WORK AND SYSTEMS. THE MATERIAL

SPECIFICALLY NOTED OTHERWISE. THE WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING PRINCIPAL

OBTAIN AND PAY FOR ALL NECESSARY CONSTRUCTION PERMITS, INSPECTION FEES, AND OTHER CHARGES BY

ADMINISTRATIVE CODE TITLE 8, AND OTHER CODES AND REGULATIONS HAVING JURISDICTION. INSTALL ALL

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

ADDITIONAL PAYMENT WILL BE CONSIDERED AS VALID, DUE TO FAILURE TO ALLOW FOR CONDITIONS WHICH

COORDINATE ALL WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND

ELECTRICAL EQUIPMENT LOCATIONS INDICATED ARE SHOWN DIAGRAMMATICALLY, EXACT LOCATION SHALL BE

SCALING OFF OF DRAWINGS SHALL BE DONE AT CONTRACTORS RISK. DO NOT SCALE DEVICES, LIGHTING

LIGHTING FIXTURE QUANTITIES AND LENGTHS SHALL BE CONTRACTORS RESPONSIBILITY. FIXTURES ARE

UNINTERRUPTED EXISTING ELECTRICAL POWER SHALL BE MAINTAINED TO OTHER TRADES FOR TEMPORARY

REQUIRED. IDENTIFY AT BID TIME, ALL WORK TO BE DONE ON PREMIUM TIME AND THE TOTAL OVERTIME

PROVIDE RECORD DRAWINGS IN ACAD TO THE OWNER WITH ALL CHANGES NOTED THEREON AT THE COMPLETION

SUBMIT SHOP DRAWINGS AND MATERIAL LIST FOR REVIEW PRIOR TO COMMENCING ANY WORK. ALL EQUIPMENT

MOUNTING HARDWARE, DISCONNECT SWITCHES, FUSES, CONTROLLERS, LIGHTING FIXTURES, LIGHT SWITCHES,

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

WHICH AFFECT OTHER PARTS OF HIS OWN WORK, THE OWNER, ENGINEER OF RECORD OR THE WORK OF OTHER

ALL WORK AND MATERIAL SHALL CONFORM TO THE LATEST RULES OF THE GOVERNING ELECTRICAL CODE

CONDUIT SHALL BE EMT, PVC, IMC, RIGID OR FLEXIBLE STEEL TYPE. CONDUIT SHALL BE MANUFACTURED 1

PROVIDE 20AMP NEMA RATED SWITCHES AND RECEPTACLES OF SPECIFICATION GRADE. ALL SWITCHES SHALL B

RATED FOR 120 AND/OR 277 VOLT AND RECEPTACLES SHALL BE NEMA 5-20R. IN ALL OFFICES AND OFFICE

DENTIFY FEEDERS WITH THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE. LOAD

IDENTIFY BRANCH CIRCUITS WITH I.D. MARKERS, THE CORRESPONDING CIRCUIT DESIGNATION AT THE

SELF-STICKING MARKERS SUCH AS THOMAS & BETTS E-Z CODE FOR IDENTIFICATION OF CONDUCTORS.

OVER-CURRENT DEVICE, AT ALL SPLICES, IN JUNCTION BOXES, AND IN OUTLETS. USE PLASTIC COATED

IDENTIFY SIGNAL & COMMUNICATION CABLES AT TERMINAL AND OUTLET UNIQUELY WITH PERMANENT LABELING

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

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 VOLT

PROVIDE LIGHTING FIXTURES WITH ELECTRONIC BALLASTS PER SCHEDULE, PROVIDE WITH LAMPS BY G.E.,

SISTRIBUTION AND LIGHTING PANELBOARDS WITHIN PROJECT AREA SHALL BE OF THE COPPER BUS THREE

AS POSSIBLE. AN EVENLY BALANCED LOAD ON ALL PHASES. PANELBOARDS SHALL BE BOLT-ON CIRCUIT

PHASE, FOUR WIRE DISTRIBUTED PHASING TYPE. CIRCUITING SHALL BE ARRANGED TO PROVIDE, AS NEARLY

NO SUBSTITUTIONS OF FIXTURES SHALL BE PROVIDED WITHOUT THE APPROVAL OF THE ENGINEER -OF-RECORD.

AREAS DEVICES SHALL BE DECORA SERIES TYPE WITH COLOR SELECTION BY CONTRACTOR/OWNERS

TO BEAR U.L. LABEL OR THAT OF ANOTHER ACCEPTABLE TESTING LABORATORY. SHOP DRAWINGS MUST BE

SUBMIT THREE HARD COPY SETS OF SHOP DRAWINGS FOR REVIEW PRIOR TO PURCHASING ALL BREAKER

CONTRACTOR'S BID SHALL BE BASED ON ALL WORK SHOWN ON THE PLANS AND AS SPECIFIED. IF

WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. AND THE CONTRACTOR SHALL BE

AND INSTALLATION SHALL BE OF THE LATEST INDUSTRY STANDARDS OF WORKMANSHIP

FLEXIBLE STEEL CONDUIT RUNS SHALL BE LIMITED TO A MAXIMUM LENGTH OF 6 FOOT.

END, AND IN PULL BOXES WITH E-Z CODE OR OTHER APPROVED WIRE MARKER.

RESPONSIBLE AT HIS OWN EXPENSE FOR ANY CHARGES RESULTING FROM HIS PROPOSED SUBSTITUTIONS

ALL MATERIALS SHALL BE NEW AND LISTED FOR THE APPLICATION BY UNDERWRITERS LABORATORY (U.L.)

ACCORDANCE WITH UL-1. A GROUND WIRE IS REQUIRED IN ALL FLEXIBLE CONDUIT AND UNDERGROUND

PROVIDE 3/16" NYLON PULL STRING IN ALL EMPTY CONDUITS. NO MC, BX OR AC90 SHALL BE PERMITTED.

CONDUIT. BUSHINGS SHALL BE INSTALLED ON ALL COMMUNICATION, TELEPHONE & SPEAKER CONDUITS

OF THE PROJECT. RECORD DRAWINGS SHALL BE SIGNED AND DATED BY CONTRACTOR PRIOR TO RELEASE OF

ONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL LABOR AND MATERIALS ON ALL WORK AGAINST

DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR.

STAMPED BY THE CONTRACTOR FOR CONFORMANCE PRIOR TO SUBMITTAL.

POWER AREAS OF THE SITE DURING CONSTRUCTION. PROVIDE ANY TEMPORARY SERVICES AS MAY BE

SHOWN FOR CIRCUITING ONLY. CONTRACTOR TO VERIFY SIZES & QUANTITIES PRIOR TO BID.

PROVIDE ALL ELECTRICAL CONNECTION REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.

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

REQUIRED FOR THE WORK SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED, UNLESS

PROVIDE AND INSTALL ALL MATERIALS IN CONFORMANCE WITH THE 2016 C.E.C., CALIFORNIA

EQUIPMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY AND THE

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. **DEMOLITION**

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.

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

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

5. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.

REMOVE ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOOR. AND PATCH SURFACES.

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

GENERAL NOTES

10. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION

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.

CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE CONFINES AS MUCH AS POSSIBLI AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.

. 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,

 $extsf{4}.$ all conduit runs shall be concealed, unless shown otherwise. Provide a pull wire in

EXISTING CONDITION SHOWN IS FROM AVAILABLE RECORD DRAWINGS AND VISUAL FIELD SURVEY AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITION AT

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.

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.

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.

<u>INSTALLATION</u> 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

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

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.

APPROVAL OF ARCHITECT FOR VISUAL AND STRUCTURAL REASONS.

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

5. FOR CONNECTIONS TO EXHAUST FANS, PUMPS, COMPRESSORS, SPACE HEATERS, WATER HEATERS

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. <u>FIRE ALARM SYSTEM (THE MAIN PANEL & PERIPHERALS MAY BE REUSED IF CSFM# IS STILL CURRENT)</u> 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

)) STROBES/ALARMS IN ALL REQUIRED AREAS E) PULL STATIONS AT ALL LEGAL FIRE EXITS

F) TAMPER AND FLOW SWITCHES CONTRACTOR SHALL SUBMIT FOR THE OWNERS SIGNED APPROVAL, APPROVED FIRE DEPARTMENT FIRE ALARM DRAWINGS FOR THE PROJECT SPACE.

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.

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. CONTRACTOR SHALL PROVIDE AN INDIVIDUALLY ADDRESSABLE TOTALLY SUPERVISED SYSTEM

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.

AND LED FOR EACH DEVICE ADDRESS, WITH AUDIBLE ALARM AND KEYED SILENCE SWITCH.

WITH BATTERY BACK-UP FOR 24 HOURS OF MONITORING INITIATING CIRCUITS PLUS 30

ANNUNCIATOR PANEL LOCATED IN MAIN ADMIN OFFIC SHALL BE NONGRAPHIC WITH NAMEPLATE

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

120/208V, 3ø, 4W: BLUE, BLACK, RED FOR PHASE CONDUCTORS

SYMBOLS RELAY CONTROLLED RECEPTACLE AT 18" AFF, PROVIDE WITHIN 6'-0" OF NON CONTROLLED RECEPTACLE. PROVIDE COVER PLATE WITH ENGRAVED "CONTROLLED"

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

WP GFCI RECEPTACLE AT 18" AFF

(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. JUNCTION BOX (CEILING MTD.) SIZE PER TABLE AND NEC ARTICLE 370 JUNCTION BOX (WALL MTD.) SIZE PER TABLE AND NEC ARTICLE 370 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 FLEXIBLE CONDUIT (WITH GROUND CONDUCTOR, PROVIDE LIQUID TIGHT CONDUIT IN ALL EXPOSED AREAS)

CONDUIT TURNS DOWN ──◆ CONDUIT FITTING SEALED WITH APPROVED COMPOUND FOR ENVIRONMENT SEPARATION.

CONDUIT STUB UP, CAP AND IDENTIFY

 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).

NDICATES A HOMERUN TO PNL 2LA. CKTS 1-3-5 WITH SHARED NEUTRAL & CKT 7 WITH DEDICATED NEUTRAL. └─2LA 1-3-5.7

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 3/4"C-2#10 & 1#10 GND 3/4"C-3#10 & 1#10 GND

CONDUIT TURNS UP

1" CONDUIT MINIMUM IF UNDERGROUND (CONTRACTOR TO PROVIDE DEDICATED NEUTRALS FOR CIRCUITS WHICH DO NOT HAVE COMMON CIRCUIT HANDLE TIES ON 3/4"C-4#10 & 1#10 GND BREAKERS FEEDING THE CIRCUITS) 3/4"C-5#10 & 1#10 GND

SEE KEY NOTE #1 AS INDICATED ON DRAWING SWITCH WITH PILOT LIGHT @ 42"AFF

3-WAY SWITCH, a & b INDICATES LIGHT FIXTURE TO BE SWITCHED (EACH A 3-WAY) MOUNTED @ 42" AFF SWITCH MOUNTED @ +42" AFF MOTOR RATED SWITCH

\$a, b, c, d CIRCUIT SWITCH LEGS -----WALL SWITCHES

JUNCTION BOX DIMENSION, INCHES

4 x1-1/4 ROUND OR OCTAGONAL

4 x1-1/2 ROUND OR OCTAGONAL

4 x2-1/8 ROUND OR OCTAGONAL

TRADE SIZE OR TYPE

 $4 \times 1-1/4$ SQUARE

 $4 \times 1-1/2$ SQUARE

4 x2-1/8 SQUARE

 $4-11/16 \times 1-1/4$ SQUARE

4-11/16 x1-1/2 SQUARE

4-11/16 x2-1/8 SQUARE

 $3 \times 2 \times 1 - 1/2$ DEVICE

 $3 \times 2 \times 2 - 1/4$ DEVICE

 $3 \times 2 \times 2 - 1/2$ DEVICE

 $3 \times 2 \times 2 - 3/4$ DEVICE

 $3 \times 2 \times 3-1/2$ DEVICE

 $4 \times 2 - 1/8 \times 1 - 1/2$ DEVICE

4 x2-1/8 x1-7/8 DEVICE

4 x2-1/8 x2-1/8 DEVICE

 $3-3/4 \times 2 \times 2-1/2$ MASONRY

 $3-3/4 \times 2 \times 3-1/2$ MASONRY

FS - MINIMUM INTERNAL DEPTH

FD - MINIMUM INTERNAL DEPTH

2-3/8 SINGLE COVER / GANG

FS - MINIMUM INTERNAL DEPTH

1-3/4 MULTIPLE COVER / GANG

FD - MINIMUM INTERNAL DEPTH

2-3/8 MULTIPLE COVER / GANG

1-3/4 SINGLE COVER / GANG

3 x2 x2 DEVICE

BOX / GANG

BOX / GANG

DISCONNECT SWITCH, 60AMP SWITCH, 35 AMP FUSE, 3 POLE W/ OVERCURRENT PROTECTION U. O. N.

100A UTILITY METER (OR AS NOTED) FUSED DISCONNECT SWITCH 100AMP SWITCH RATING WITH 60 AMP FUSES, 3 POLE 100AS 60AF

MOLDED CASE CIRCUIT BREAKER) 150AT 200 AMP FRAME, 150 AMP TRIP RATING. 3 POLE

AND REQUIREMENTS WITH CLIENT/OWNER.

CCTV-VERIFY MOUNTING LOCATION

ABBREVIATIONS MAIN TELEPHONE BACKBOARD

MOUNTING

NEW

PANEL

ROOM

REMOVED

MERCURY VAPOR

METAL HALIDE

MANUFACTURER

NIGHT LIGHT

NORMALLY OPEN

POWER OR POLE

SYSTEM NEUTRAL

NORMALLY CLOSED

PROVIDED BY OTHERS

NOT IN CONTRACT

NATIONAL ELECTRICAL CODE

AMP FRAME/AMP FUSE AVAILABLE FAULT CURRENT ABOVE FINISHED FLOOR ARCH AMP SWITCH AMP TRIP AMERICAN WIRE GAGE BKBD BACKBOARD CIRCUIT BREAKER CONT. CONTINUATION CEILING CONDUIT ONLY CABLE TELEVISION COPPER COLD WATER PIPE DISCONNECT ISCONNECT SWITCH DRAWING

SHEET

E1. 00

E1. 01

E1. 02

E1. 30

E3. 00. 1

E3. 00. 3

DESCRIPTION

LIGHTING DEMOLITION PLAN BUILDING C

EXISTING ELECTRICAL PANEL SCHEDULES

ELECTRICAL SINGLE LINE DIAGRAM

LIGHTING FIXTURE SCHEDULE

nLIGHT ROOM LAYOUTS

M&O DEPARTMENT

nLIGHT CUT SHEETS

TITLE 24 PAGE 1

TITLE 24 PAGE 2

GENERAL NOTES, ABBREVIATIONS, SYMBOLS & DRAWING LIST

POWER & LOW VOLTAGE DEMOLITION PLAN BUILDING C

ELECTRICAL CONTRACTOR EMERGENCY LIGHT/FEEDER ENGINEER OF RECORD SHALLOW FLOOR BOX GENERAL CONTRACTOR GROUND FAULT INTERRUPTER GND GROUND HORSEPOWER ISOLATED GROUND

LONG CONTINUOUS LOAD

LOW VOLTAGE

TIME CLOCK TELEPHONE TERMINAL BOARD TELEPHONE TERMINAL CABINET TRANSFORMER TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR TYP TYPICAL UNDERGROUND UNLESS OTHERWISE NOTED UNSW UNSWITCHED VOLT AMPS VOLTS/VOLTAGE WATTS/WATTAGE JUNCTION BOX WEATHERPROOF KILO VOLT AMPS=1000VA WITH (X) EXISTING LIGHTING CONTACTOR

RM

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: PERCENT OF VALUES IN NUMBER OF TABLES AS ADJUSTED FOR

AMBIENT TEMPERATURE CURRENT-CARRYING CONDUCTORS IF NECESSARY 4 THROUGH (7 THROUGH 9 10 THROUGH 20 21 THROUGH 30 31 THROUGH 40

WHERE SINGLE CONDUCTORS OR MULTICONDUCTOR CABLES ARE STACKED OR BUNDLED ONGER 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

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.

ROY E COLBERT

DATE

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VENTURA COUNTY

COLLEGE DISTRICT

VENTURA COLLEGE

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MAINTENANCE &

RENOVATION

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KEN LUCCI

CIVIL ENGINEER:

STRUCTURAL ENGINEER

ELECTRICAL ENGINEER

MECHANICAL ENGINEER:

LANDSCAPE ARCHITECT:

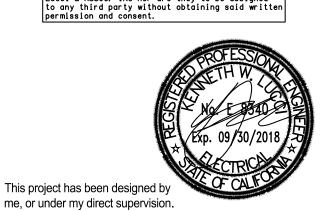
LUCCI & ASSOCIATES

OPERATIONS ADMIN

PROJECT DIRECTORY

SOILS ENGINEER / SEPTIC SYSTEM:

COMMUNITY



LIST OF DRAWINGS

SCOPE OF WORK

SITE MAP

PROVIDE REMODELED ELECTRICAL SYSTEMS FOR POWER, LIGHTING AND LOW VOLTAGE FOR THE

PROJECT AREA

SHEET

E3. 01

E4. 01

E4. 20

E5. 00

E5. 02

E5. 05

E6. 00

DESCRIPTION

ROOF ELECTRICAL PLAN - BUILDING C

FIRE ALARM SYSTEM - BUILDING C NEW WORK

FIRE ALARM SYSTEM - EQUIPMENT LIST & PARTIAL SITE

FIRE ALARM SYSTEM - BUILDING C EXISTING CONDITION

LIGHTING PLAN

POWER & COM PLAN

FIRE ALARM DETAILS

ELECTRICAL DETAILS

GENERAL STANDARDS

2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE

CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1 2016 CALIFORNIA BUILDING CODE (CBC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 2 (2014 INTERNATIONAL BUILDING CODE (IBC) W/CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ELECTRICAL CODE (CEC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3 (2014 NATIONAL ELECTRICAL CODE (NEC) W/CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ENERGY CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 6 2016 CALIFORNIA FIRE CODE (CFC)

CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9 RIGID GALVANIZED STEEL CONDUIT (2015 INTERNATIONAL FIRE CODE (IFC) W/CALIFORNIA AMENDMENTS) 2016 CALIFORNIA REFERENCED STANDARDS CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 12

AMERICANS WITH DISABILITIES ACT (ADA) TITLE II - ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES

1990 STATE FIRE MARSHAL REGULATIONS AND AMENDMENTS TO-DATE

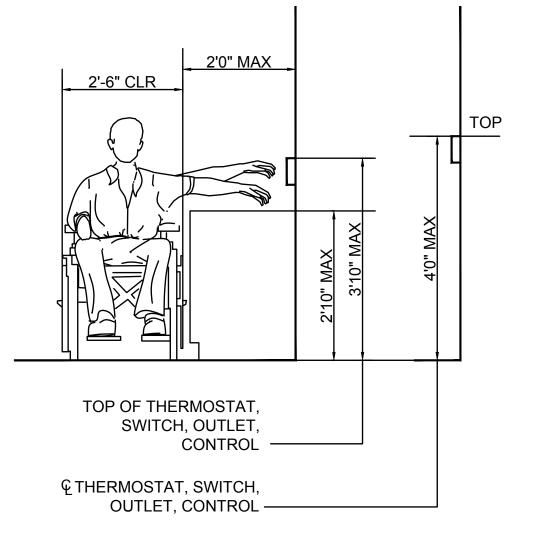
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, CALIFORNIA STATE ACCESSIBILITY STANDARDS CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19

2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN), PART II, TITLE 24 C.C.R. IO. 2016 CALIFORNIA MECHANICAL CODE (CMC)

CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 4 (2012 UNIFORM MECHANICAL CODE (UMC) W/CALIFORNIA AMENDMENTS) 1. 2016 CALIFORNIA PLUMBING CODE (CPC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 5

(2012 UNIFORM PLUMBING CODE (UPC) W/CALIFORNIA AMENDMENTS) 2. 2013 TITLE 19 CALIFORNIA CODE OF REGULATIONS (CCR) PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS l3. 2016 NFPA 72 NATIONAL FIRE ALARM CODE

MOUNTING HEIGHT OVER OBSTRUCTION



GENERAL NOTES, SYMBOLS, ABBREVIATIONS AND DRAWING LIST

WATER SYSTEM / FIRE PROTECTION SYSTEM:

SHEET NAME 09-03-2017

AS SHOWN

C16 - 006

SHEETS

AND FURNISHED BY OTHERS.

Copyright Lucci and Associates Consulting Electrical Engineers. Deviations from this drawing will not be made without their expressed written permission.

6. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY AND RE-LABEL DEVICES AS SPARES.

PROVIDE CONDUCTOR COLOR CODE AS FOLLOWS:

AND WHITE FOR NEUTRAL, GREEN FOR GROUND.

277/480V, 3ø, 4W: ORANGE, BROWN, YELLOW FOR PHASE CONDUCTORS AND WHITE FOR NEUTRAL, GREEN FOR GROUND.

JUNCTION BOX FILL MIN. | MAXIMUM NUMBER OF CONDUCTORS ``| N0. 14 | N0. 12 | N0. 10 | N0. 8 | N0. 6

12 | 10

10 | 8

7 | 6

11

5 | 4 | 4 | 3 | 2

6 | 5 | 5 | 4 | 2

7 | 6 | 5 | 4 | 2

9 | 8 | 7 |

10

10

15

12

21

10

6

30. 3

25. 5

29. 5

10. 5

12. 5

18. 0

10. 3

13. 0

14. 5

14.0

13. 5

18. 0

18. 0

24. 0

13

8

(ARTICLES 210, 215, 220, AND 230) CONDUCTORS ONLY.

(b) MORE THAN ONE CONDUIT, TUBE, OR RACEWAY. SPACING BETWEEN CONDUITS, TUBING, OR RACEWAYS SHALL BE MAINTAINED.

THIS PLAN IS BASED UPON DATA COMPILED

SHEET NUMBER OF

G: \16\247\EL\Sheets\16247E100.dwg Sep 03, 2017, 12:44pm Lee Keener

STATE OF CALIFORNIA INDOOR LIGHTING - LIGHTING CONTROLS	STATE OF CALIFORNIA	STATE OF CALIFORNIA
CEC-NRCC-LTI-02-E (Revised 01/16) CERTIFICATE OF COMPLIANCE NRCC-LTI-02-E	INDOOR LIGHTING CEC-NRCC-LTI-01-E (Revised 04/16) CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E NRCC-LTI-01-E	INDOOR LIGHTING CEC-NRCC-LTI-01-E (Revised 04/16) CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E
Indoor Lighting - Lighting Controls Project Name: VENTURA COLLEGE MAINTENANCE & OPERATIONS ADMIN RENOVATION Date Prepared: 07-05-2017	Indoor Lighting Project Name: VENTURA COLLEGE MAINTENANCE & OPERATIONS ADMIN RENOVATION Date Prepared: 07-05-2017	Indoor Lighting Project Name: VENTURA COLLEGE MAINTENANCE & OPERATIONS ADMIN RENOVATION Date Prepared: 07-05-2017
	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT 1. I certify that this Certificate of Compliance documentation is accurate and complete.	1. I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: Documentation Author Signature:	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.)
Documentation Author Name: KEN LUCCI Documentation Author Signature:	Company: LUCCI & ASSOCIATES Signature Date: 07-05-2017	YES NO FORM/TITLE NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.
Company: LUCCI & ASSOCIATES Signature Date: 07-05-2017 CEA Certification (if applicable): CEA Certification (if applicable):	Address: 3251 CORTE MALPASO, SUITE 511 City/State/Zip: CAMARILLO, CA., 93012 CEA Certification (if applicable): Phone: 805 389-6520	NRCA-LTI-03-A - Must be submitted for automatic daylight controls. Field Inspector
City/State/Zip: CAMARILLO, CA., 93012 Phone: 805 389-6520	RESPONSIBLE PERSON'S DECLARATION STATEMENT	O 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).
RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California:	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	A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only
 The information provided on this Certificate of Compliance is true and correct. 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). 	(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	for: CONDITIONED SPACE UNCONDITIONED SPACE
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.	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.	F. Indoor Lighting Schedule and Field Inspection Energy Checklist
 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. 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 	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	☐ 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 Cotagony Method on Tailored Method is used for compliance, list each different type of luminaire by each different function area on concrete lines.
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:	builder provides to the building owner at occupancy. Responsible Designer Name: KEN LUCCI Responsible Designer Signature:	 □ 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.
Company: LUCCI & ASSOCIATES Date Signed: 07-05-2017	Company: LUCCI & ASSOCIATES Date Signed: 07-05-2017 License: E8340	
Address: 3251 CORTE MALPASO, SUITE 511	City/State/Zip: CAMARILLO, CA., 93012 Phone: 805 389-6520	
City/State/Zip: CAMARILLO, CA., 93012 Phone: 805 389-6520		
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016
STATE OF CALIFORNIA INDOOR LIGHTING – LIGHTING CONTROLS	STATE OF CALIFORNIA INDOOR LIGHTING	STATE OF CALIFORNIA INDOOR LIGHTING
CEC-NRCC-LTI-02-E (Revised 01/16) CERTIFICATE OF COMPLIANCE CRUCKET OF COMPLIANCE CALIFORNIA ENERGY COMMISSION NRCC-LTI-02-E	CEC-NRCC-LTI-01-E (Revised 04/16) CERTIFICATE OF COMPLIANCE CALIFORNIA ENERGY COMMISSION NRCC-LTI-01-E	CEC-NRCC-LTI-01-E (Revised 04/16) CERTIFICATE OF COMPLIANCE CALIFORNIA ENERGY COMMISSION NRCC-LTI-01-E
Indoor Lighting - Lighting Controls Project Name: VENTURA COLLEGE MAINTENANCE & OPERATIONS ADMIN RENOVATION Date Prepared: 07-05-2017	Indoor Lighting Project Name: VENTURA COLLEGE MAINTENANCE & OPERATIONS ADMIN RENOVATION Date Prepared: 07-05-2017	Indoor Lighting 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:	A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:	C. Summary of Allowed Lighting Power
☑ CONDITIONED SPACES ☐ UNCONDITIONED SPACES	☑ CONDITIONED SPACE □ UNCONDITIONED SPACE	Conditioned and Unconditioned space Lighting must not be combined for compliance Indoor Lighting Power for Conditioned Spaces Indoor Lighting Power for Unconditioned Spaces
B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist	H. Indoor Lighting Schedule and Field Inspection Energy Checklist	Watts Installed Lighting 1530 Watts
PAF Credit Calculation 2	Luminaire Schedule Installed Watts Location Field Inspector ¹ 01 02 03 04 05 06 07 08	01 NRCC-LTI-01-E, Table H, page 5 + 1620 NRCC-LTI-01-E, Table H, page 5 + Portable Only for Offices
Standards Complying With ¹ (✓ all that apply, or leave empty CONTROL CO	How wattage was determined වූ ම	Minus Lighting Control Credits Minus Lighting Control Credits
Lighting Control Schedule if Exempted) if Exempted if	S per Complete Francisco (c) (c) (ding to 0 of ding to 0 of this s in this s	NRCC-LTI-02-E, page 2 Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3) NRCC-LTI-02-E, page 2 Adjusted Installed Lighting Power (row 1 minus row 3) Adjusted Installed Lighting Power (row 1 minus row 3)
Type/ Description of Lighting	(i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast) F32T8, one dimmable electronic ballast) F32T8, one dimmable electronic ballast)	Complies ONLY if Installed ≤ Allowed (Box 04 < Box 05) Complies ONLY if Installed ≤ Allowed (Box 04 < Box 05)
Location in Building automatic time switch, of 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	F2 2 x 4 LED 39 37 1443 0 0 DS SHOWER DOWN LIGHT 22 2 44 0 0	Allowed Lighting Power Conditioned NRCC-LTI-03-E, page 1 Allowed Lighting Power Unconditioned NRCC-LTI-03-E, page 1
dimmer, automatic daylight, Units (a) (b) (c) (a) (a) (a) (b) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	D1 DOWN LIGHT 15 1 15 15 15 0 0 F1 1 X4 LED 22 1 1 22 0 0 0	Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the original existing luminaires, 50/35% lower power compared to the or
OFFICES + + + + + 0 □ ○ ○ CORRIDORS + + + + 0 □ ○ ○	P1 PENDANT LED 36	may instead use the allowed wattage from NRCC-LTI-06, page 2 may instead use the allowed wattage from NRCC-LTI-06, page 2
BREAK ROOM ↑ ↑ ↑ ↑ 0 ○ ○ 0 ○ ○ ○ ○		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.)
	INSTALLED WATTS PAGE TOTAL: D	YES NO Form/Title NRCI-LTI-01-E - Must be submitted for all buildings
Control Credit PAGE TOTAL (Sum of Column 13):	1620 NRCC-LTI-01-E; Page 2	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS),
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13): Enter Control Credit total		NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary Field Inspector
into NRCC-LTI-01-E; Page		NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a
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.		conference room, a multipurpose room, or a theater to be recognized for compliance. NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.
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.		NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016
CA Building Effergy Efficiency Standards - 2010 Normesidential Compilance	CA Building Energy Efficiency Standards - 2010 Notification Compilance	CA Building Ellergy Efficiency Standards - 2010 Nothesidential Compilance
STATE OF CALIFORNIA INDOOR LIGHTING – LIGHTING CONTROLS	STATE OF CALIFORNIA	STATE OF CALIFORNIA
CEC-NRCC-LTI-02-E (Revised 01/16) CERTIFICATE OF COMPLIANCE NRCC-LTI-02-E NRCC-LTI-02-E	INDOOR LIGHTING CEC-NRCC-LTI-01-E (Revised 04/16) CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E NRCC-LTI-01-E	INDOOR LIGHTING CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION
Indoor Lighting - Lighting Controls Project Name: VENTURA COLLEGE MAINTENANCE & OPERATIONS ADMIN RENOVATION Date Prepared: 07-05-2017	Indoor Lighting Project Name: VENTURA COLLEGE MAINTENANCE & OPERATIONS ADMIN RENOVATION Date Prepared: 07-05-2017	CERTIFICATE OF COMPLIANCE Indoor Lighting (Page 1 of 6)
		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.)	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	A. General Information Climate Zone: Conditioned Floor Area: 4750
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	this compliance document. - This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office	Building Type:
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	- 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.	☐ Schools ☐ Relocatable Public Schools ☑ Conditioned Spaces ☐ Unconditioned Spaces
Shall be submitted in accordance with Section 130.4(b).	Office Portable Luminaire Schedule Office Installed Portable Luminaire W/ft² Office Location Field Inspector 01 02 03 04 05 06 07 08 09 10	Phase of Construction: □ New Construction □ Addition □ Alteration Method of Compliance: □ Complete Building □ Area Category □ Tailored
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).	Installed If G06 ≤ 0.3,	Project Address: 4667 Telegraph Road Ventura, CA 93003
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).	Complete Luminaire Description Complete Luminaire Description	B. Lighting Compliance Documents (select yes for each document included)
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.	(i.e., LED, under cabinet, furniture mounted direct/indirect) Watts per G S S S S S S S S S S S S S S S S S S	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
All luminaires shall be functionally controlled with manual ON and OFF lighting controls in accordance with Section 130.1(a).		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.
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,		NRCC-LTI-03-E Indoor Lighting Power Allowance NRCC-LTI-04-E Tailored Method Worksheets
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	0 0 O Enter sum total of all pages into NRCC-LTI-	NRCC-LTI-05-E Line Voltage Track Lighting Worksheets NRCC-LTI-06-E Indoor Lighting Existing Conditions
multi-level lighting control requirements in accordance with Section 130.1(b).	Total installed portable luminaire watts that are greater than 0.3 W/ft² per office: 01-E; Page 2	- Interest of a master agriculty conditions
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.		
Eighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).		
Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in		
accordance with Section 130.4.(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.		
		CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016	Д 3, ,

REVISIONS

ROY E COLBERT

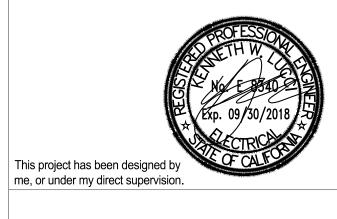
ARCHITECTURE PLANNING DESIGN

353 SAN JON ROAD VENTURA, CA 93001

805 / 650 . 9590 PH 805 / 650 . 9589 FX rcolb@sbcglobal.net CALIFORNIA C12050

N.C.A.R.B. עול פצו אושעושלים אושעול אושעול CONSULTING ELECTRICAL ENGINEERS

3251 CORTE MALPASO, #511 CAMARILLO, CA 93012-8094 (805) 389-6520 FAX (805) 389-6519 Web Site http://www.lucciland.com LUCCI & ASSOCIATES, INC. reserve their commonlaw copyright and other property rights in these plans. These plans and drawings are not to be reproduced, changed, or copied in any form or manner whatsoever without first obtaining the expressed written permission and consent of LUCCI & ASSOC. INC nor are they to be assigned to any third party without obtaining said written permission and consent.



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:

CIVIL ENGINEER:

STRUCTURAL ENGINEER:

ELECTRICAL ENGINEER: LUCCI & ASSOCIATES KEN LUCCI

MECHANICAL ENGINEER:

805/389.6520

LANDSCAPE ARCHITECT:

WATER SYSTEM / FIRE PROTECTION SYSTEM:

TITLE 24 INDOOR LIGHTING PAGE 1

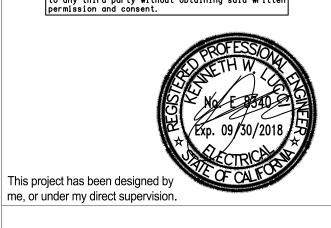
SHEET NAME

SHEET NUMBER

09-03-2017

AS SHOWN

C16 - 006 PROJECT



VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

VENTURA COLLEGE 4667 Telegraph Road Ventura, CA 93003

MAINTENANCE & OPERATIONS ADMIN RENOVATION

PROJECT DIRECTORY

SOILS ENGINEER / SEPTIC SYSTEM: CIVIL ENGINEER:

XXXX STRUCTURAL ENGINEER:

KEN LUCCI

805/389.6520

XXXX ELECTRICAL ENGINEER: LUCCI & ASSOCIATES

MECHANICAL ENGINEER:

LANDSCAPE ARCHITECT:

WATER SYSTEM / FIRE PROTECTION SYSTEM:

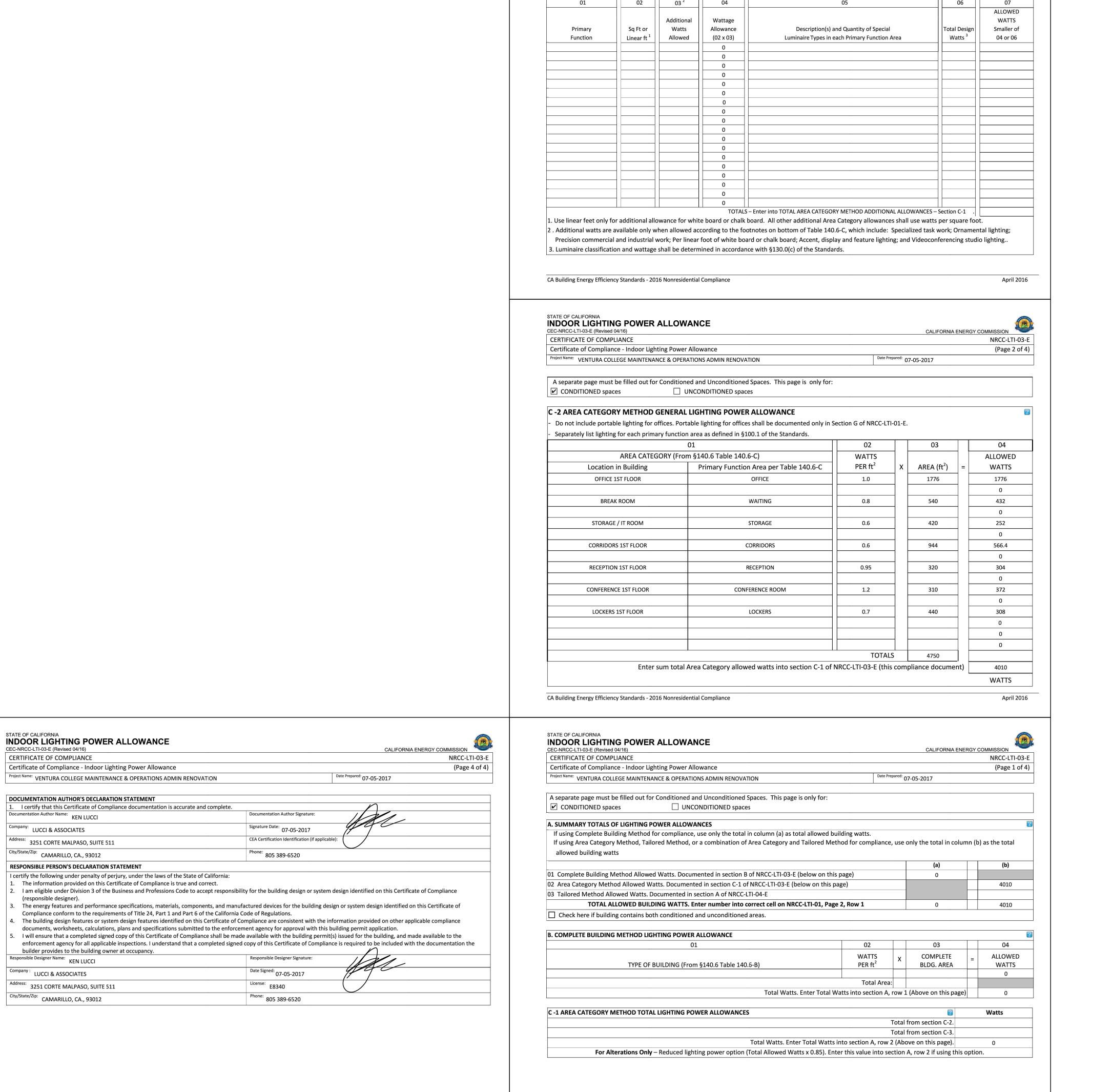
TITLE 24 INDOOR LIGHTING PAGE 2

SHEET NAME

09-03-2017

AS SHOWN

C16 - 006



INDOOR LIGHTING POWER ALLOWANCE

Certificate of Compliance - Indoor Lighting Power Allowance

Project Name: VENTURA COLLEGE MAINTENANCE & OPERATIONS ADMIN RENOVATION

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:

UNCONDITIONED spaces

C-3 AREA CATEGORY METHOD ADDITIONAL LIGHTING WATTAGE ALLOWANCE (from Table 140.6-C Footnotes)

CERTIFICATE OF COMPLIANCE

☐ CONDITIONED spaces

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

April 2016

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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2016

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

SHEET NUMBER

REVISIONS

CALIFORNIA ENERGY COMMISSION

Date Prepared: 07-05-2017

NRCC-LTI-03-E

(Page 3 of 4)

ROY E COLBERT

ARCHITECTURE PLANNING DESIGN

353 SAN JON ROAD VENTURA, CA 93001

805 / 650 . 9590 PH 805 / 650 . 9589 FX rcolb@sbcglobal.net CALIFORNIA C12050

८५५५। दे अञ्चलकार्य । अस्त CONSULTING ELECTRICAL ENGINEERS 3251 CORTE MALPASO, #511 CAMARILLO, CA 93012-8094

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OF

SHEETS

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	
1		
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ROY E COLBERT

ARCHITECTURE PLANNING DESIGN

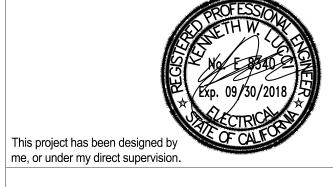
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CALIFORNIA C12050

תענו עבדונועטעבוג א ועעעע CONSULTING ELECTRICAL ENGINEERS 3251 CORTE MALPASO, #511 CAMARILLO, CA 93012-8094

(805) 389-6520 FAX (805) 389-6519 Web Site http://www.lucciland.com LUCCI & ASSOCIATES, INC. reserve their commonlaw copyright and other property rights in these plans. These plans and drawings are not to be reproduced, changed, or copied in any form or manner whatsoever without first obtaining the expressed written permission and consent of LUCCI & ASSOC. INC nor are they to be assigned to any third party without obtaining said written permission and consent.



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:

CIVIL ENGINEER:

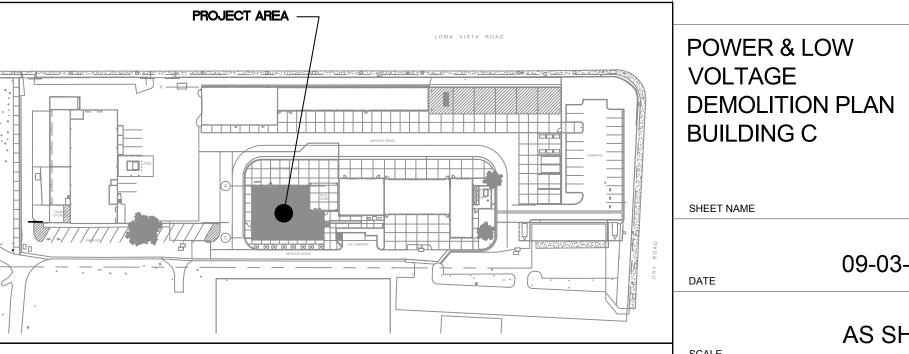
STRUCTURAL ENGINEER:

ELECTRICAL ENGINEER: LUCCI & ASSOCIATES KEN LUCCI 805/389.6520

MECHANICAL ENGINEER:

LANDSCAPE ARCHITECT:

WATER SYSTEM / FIRE PROTECTION SYSTEM:



KEY MAP

09-03-2017

C16 - 006

00

SHEETS

AS SHOWN

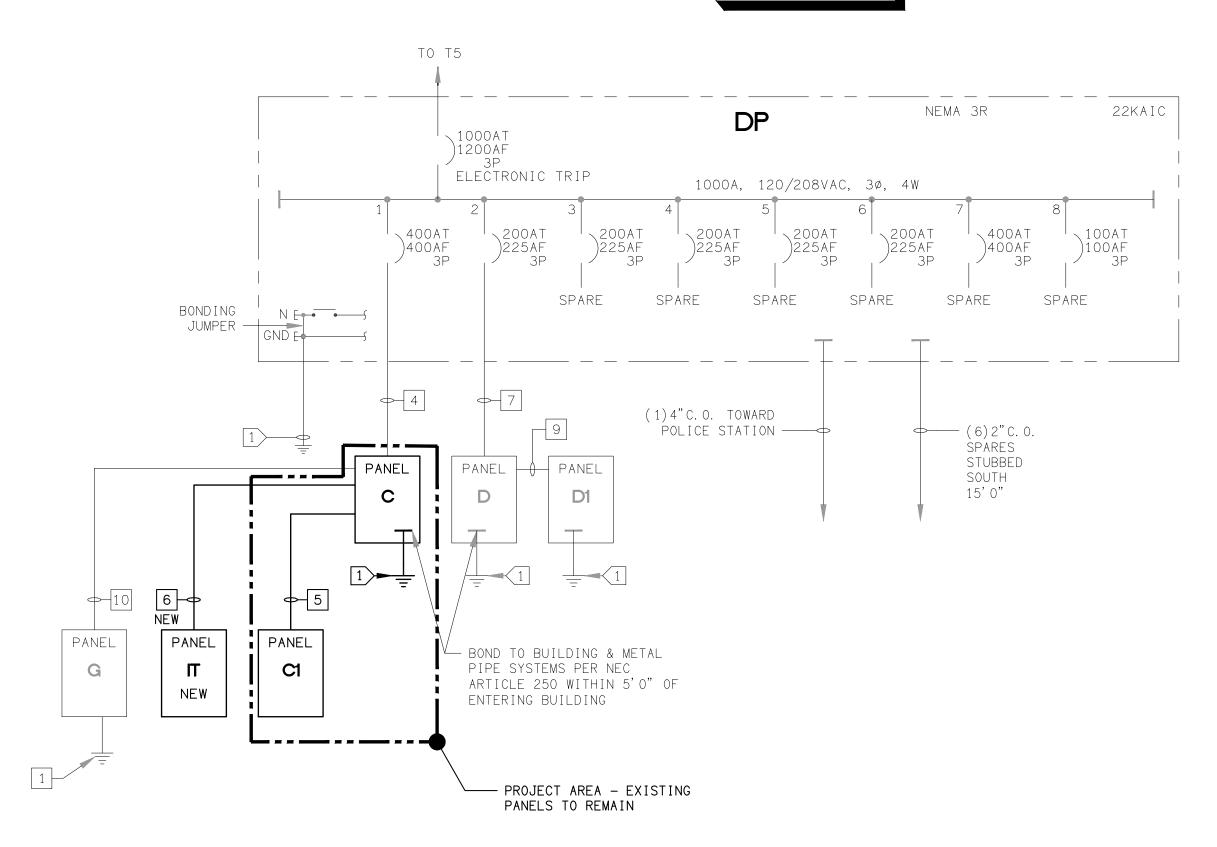
PROJECT E1.40

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

KEY NOTES: 1 #1/0 UFER & 2 GROUND RODS - 3/4" X 10'0" 15'0' APART MINIMUM

- E2.00

ALL DEVICES ARE



EXISTING ELECTRICAL SINGLE LINE DIAGRAM

	FEEDER SCHEDULE (U.O.N.)						
	TAG	CONDUIT/CONDUCTOR	FROM	ТО			
EXISTING -	4	4"C - 4#500MCM (XHHW-2) & 1#1/0 GND EACH	DP	С			
EXISTING -	5	2"C - 4#3/0 (XHHW-2) & 1#6 GND	С	C1			
NEW	6	1-1/2"C - 4#1 (XHHW-2) & 1#8 GND & 1#6 ISO GND	С	ΙT			
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	С	G			
			<u> </u>	<u> </u>			

REVISIONS	DATE	BY
<u> </u>		
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ROY E COLBERT

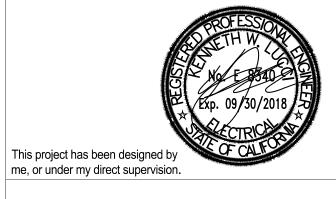
ARCHITECTURE PLANNING DESIGN

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CONSULTING ELECTRICAL ENGINEERS 3251 CORTE MALPASO, #511 CAMARILLO, CA 93012-8094 (805) 389-6520 FAX (805) 389-6519 Web Site http://www.lucciland.com

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VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

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M&O: MAINTENANCE & OPERATIONS ADMIN RENOVATION

PROJECT DIRECTORY

SOILS ENGINEER / SEPTIC SYSTEM:

CIVIL ENGINEER:

STRUCTURAL ENGINEER:

ELECTRICAL ENGINEER:

LUCCI & ASSOCIATES KEN LUCCI 805/389.6520

MECHANICAL ENGINEER:

LANDSCAPE ARCHITECT:

WATER SYSTEM / FIRE PROTECTION SYSTEM:

SINGLE LINE DIAGRAM

SHEET NAME

09-03-2017

AS SHOWN

SHEET NUMBER

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

C16 - 006

REVISIONS

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

VENTURA COUNTY

COLLEGE DISTRICT

VENTURA COLLEGE

4667 Telegraph Road

Ventura, CA 93003

MAINTENANCE &

RENOVATION

OPERATIONS ADMIN

PROJECT DIRECTORY

SOILS ENGINEER / SEPTIC SYSTEM:

CIVIL ENGINEER:

STRUCTURAL ENGINEER:

ELECTRICAL ENGINEER:

MECHANICAL ENGINEER:

LANDSCAPE ARCHITECT:

WATER SYSTEM / FIRE PROTECTION SYSTEM:

09-03-2017

AS SHOWN

C16 - 006

OF

SHEETS

EXISTING ELECTRICAL

PANEL SCHEDULES

LUCCI & ASSOCIATES

KEN LUCCI 805/389.6520

COMMUNITY

M&O:

REVISED EXISTING PANEL ■ NEMA 1 ■ COPPER BUSS . VOLTAGE <u>120/208</u> PHASE <u>3</u> WIRE <u>4</u> PANEL NUMBER ■ MAIN CIRCUIT BREAKER 400 _ A.I.C. <u>22000</u> SOURCE DP PANEL LOCATION BUILDING C ■ SURFACE MOUNTING _ BUS_AMPERE_RATING_400_ CIRCUIT DESCRIPTION CIRCUIT DESCRIPTION JAY OFFICE RECEPT. | 360 STORAGE RECEPTACLE 360 OFFICE 104 RECEPTACLE 360 540 OFFICE 104 RECEPTACLE SPARE OFFICE 105 RECEPTACLE OFFICE 105 RECEPTACLE 540 OFFICE 105 RECEPTACLE CONFERENCE RECEPTACLE CONFERENCE RECEPTACLE 360 CONFERENCE RECEPTACLE BATHROOM RECEPTACLE SPARE EF1, EF2, EF3 PANEL IT PANEL C1 2000 11900 AC-1A WATER HEATER 2400 AC-1B 2400 17290|16730|14160| TOTALS TOTALS | 7160 | 7160 | 7940 | PHASE C L.C.L. VOLT AMPS: PHASE A PHASE B 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

REVISED EXISTING PANEL (CHANGE BREAKERS AS REQUIRED WITH SAME MANUFACTURER & TYPE) _ VOLTAGE <u>120/208</u> PHASE <u>3</u> WIRE <u>4</u> PANEL NUMBER C1 _ A.I.C. <u>10000</u> SOURCE $\stackrel{ extsf{C}}{=}$ ■ MAIN LUGS ONLY PANEL LOCATION BUILDING C BUS AMPERE RATING 225 ■ FLUSH MOUNTING CIRCUIT DESCRIPTION CIRCUIT DESCRIPTION INTERNAL LIGHTS LIGHTING EXTERIOR BLDG BATHROOM LIGHTING 1000 CORRIDOR RECEPTACLE MARTIN OFFICE RECEPT. MARTIN OFFICE RECEPT. HILDA OFFICE EXIT SIGNS 500 KILN YARD RECEPTACLE RECEPTION RECEPTACLE | 360 KILN YARD RECEPTACLE VIDEO @ RECEPTACLE DRY GLAZE ROOM RECEPT RECEPTION RECEPTACLE 500 DRY GLAZE ROOM RECEPT JANITOR CLOSET RECEPT EXTERIOR N. RECEPT FIRE ALARM 1 SPAK CKT 5 LIGHTING EXTERIOR SITE OFFICE 106 ROOF RECEPTACLE OFFICE 107 PRINTER 1000 SCANNER VIDEO LUNCH ROOM EXTERIOR LIGHTS LUNCH ROOM EXTERIOR LIGHTS 700 360 EXTERIOR LIGHTS] | [5] 360 EXTERIOR LIGHTS CHECK IN OFFICE RECEPT EXTERIOR LIGHTS 700 1000 5980 5440 5840 TOTALS TOTALS | 6260 | 6660 | 5880 L.C.L. VOLT AMPS: PHASE A . PHASE B . PHASE C . TOTAL VOLT AMPS: 36060 PHASE A 12240 PHASE B 12100 PHASE C 11720 PHASE A 102.0 TOTAL AMPS: 100.2 PHASE B 100.8 PHASE C 97.7

EXISTING PANEL ■ NEMA 1 ■ COPPER BUSS _ VOLTAGE <u>120/208</u> PHASE <u>3</u> WIRE <u>4</u> PANEL NUMBER C1 _ A.I.C. <u>10000</u> |SOURCE C ■ MAIN LUGS ONLY PANEL LOCATION BUILDING C BUS AMPERE RATING 225 ■ FLUSH MOUNTING CIRCUIT DESCRIPTION CIRCUIT DESCRIPTION LIGHTING EXTERIOR BLDG BATHROOM LIGHTING CLASSROOM LIGHTING CLASSROOM LIGHTING CLASSROOM LIGHTING 500 KILN YARD RECEPTACLE KILN YARD RECEPTACLE DRY GLAZE ROOM RECEPT 500 DRY GLAZE ROOM RECEPT JANITOR CLOSET RECEPT EXTERIOR N. RECEPT FIRE ALARM LIGHTING EXT SITE ROOF RECEPTACLE RECEPTACLE @ CHECK I RECEPTACLE @ CHECK IN 360 RECEPTACLE @ CHECK I EXTERIOR LIGHTS EXTERIOR LIGHTS EXTERIOR LIGHTS EXTERIOR LIGHTS EXTERIOR LIGHTS SPARE SPARE 7400 6160 7700 TOTALS TOTALS | 4360 | 4680 | 4900 | L.C.L. VOLT AMPS: PHASE A PHASE B . PHASE C . PHASE A 11760 PHASE B 10840 PHASE C 12600 TOTAL VOLT AMPS: 35200 PHASE A 98 TOTAL AMPS: 97.8 PHASE B 90.3 PHASE C 105

EXISTING PANEL

_ BUS AMPERE RATING 400_

A.I.C. <u>22000</u>

PANEL NUMBER

PANEL LOCATION BUILDING C

CIRCUIT DESCRIPTION

SPARE

EF1, EF2, EF3

PANEL IT

AC-1A

AC-1B

L.C.L. VOLT AMPS:

TOTAL VOLT AMPS: 113720

TOTAL AMPS: 315.9

2000

2400

2400

TOTALS |23800|23800|24400|

PHASE A

PHASE A 38930

SOURCE DP

. VOLTAGE <u>120/208</u> PHASE <u>3</u> WIRE <u>4</u>

POLE AMP CKT PHASE CKT AMP POLE A B

37 | + | | 38 | 200 |

PHASE B

PHASE B 38750

■ NEMA 1 ■ COPPER BUSS

■ SURFACE MOUNTING

CIRCUIT DESCRIPTION

BATHROOM RECEPTACLE

PANEL C1

WATER HEATER

500

7200

|15130|14950|11640| TOTALS

PHASE C

PHASE C 36040

PHASE C 300.3

■ MAIN CIRCUIT BREAKER <u>400</u>

SHEET NAME

2 LOCK ON DEVICE.

3 VIA TORK ASTRONOMICAL TIME CLOCK.

5 CONTACTOR 2 SPAK CKT 3

4 CONTACTOR 1 SPAK CKT 4

6 CONTACTOR 3 SPAK CKT 2

C (REV)C CI(REV)CI

THIS PLAN IS BASED UPON DATA COMPILED

AND FURNISHED BY OTHERS.

L.A.I.# 16247 PAPER SIZE 42"x30"

E2.01

SHEET NUMBER

SCALE

DrafteriLee Keener DrawingiGi/16/247/EL/S Sep 03, 2017, 12:45pm Attached XREFS: XREFIGi/16/247/EL/Xri G: \16\247\EL\Sheets\16247E201.dwg Sep 03, 2017, 12:45pm Lee Keener **NEW PANEL**

_ BUS AMPERE RATING 100

PHASE B

PHASE B 1540

PHASE B 12.8

BRKR

| POLE | AMP |

180

180

180

PHASE A

PHASE A 1540

PHASE A 12.8

PANEL NUMBER

L.C.L. VOLT AMPS:

TOTAL VOLT AMPS: 3440

TOTAL AMPS: 9.6

ISOLATED GROUND BUS

PANEL LOCATION BUILDING C

CIRCUIT DESCRIPTION

RECEPTACLE

RECEPTACLE

RECEPTACLE

RECEPTACLE

RECEPTACLE

RECEPTACLE

RECEPTACLE

RECEPTACLE

SPARE

SPARE

SPARE

TOTALS

SOURCE

VOLTAGE 120/208 PHASE 3 WIRE 4

BRKR

T PHASE CKT AMP POLE A B

LOAD(VA)

1000 | 1000 |

■ NEMA 1 ■ COPPER BUSS

■ MAIN LUGS ONLY

■ SURFACE MOUNTING

CIRCUIT DESCRIPTION

RECEPTACLE

RECEPTACLE

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

TOTALS

PHASE C 360

PHASE C 3.0

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.

p 03, 2017, 12:45pm toched XREFS	REFIGN16\247\EL\Xrefs\16247TB.dwg	

#12 SUPPORT WIRE TO GRID MEMBER WITHIN 3 INCHES OF EACH CORNER OF EACH FIXTURE TYPICAL 4 CORNERS.	SEISMIC WIRE TYPICAL 2 #12 WIRES ONE EACH END OF FIXTURE DIAGONALLY OPPOSED, THESE MAY BE SLACK
	RECESSED FLUORESCENT FIXTURE T-BAR GRID
SCREWS OR OTHER APPROVED METHOD OF FASTENING TO BUILDING STRUCTURE.	PROVIDE T-BAR HOLD-DOWN CLIP AT EACH CORNER TYPICAL

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

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.

LIGHTING FIXTURES WEIGHING 56 POUNDS OR

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.

CONDU I SECURE	ALL ELECTR IT, FIXTURES ELY FASTENEI IURE AS PER	S, ETC. S D TO THE	SHALL BE BUILDING

FIXTURE SCHEDULE NOTES:

COMMON WIRES.

- 1. FIXTURES TYPE IN CONTACT WITH INSULATION SHALL HAVE U.L. LISTED THERMAL
- 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
- 4. SEE ARCHITECTURAL PLANS FOR EXACT DIMENSIONS, CEILING CONFIGURATION AND LIGHTING PLACEMENT.
- FIXTURE TYPE QUANTITY

TAG	SYMBOL	WATT	DESCRIPTION	LAMP - TYPE AND QUANTITY	MOUNTING	MANUFACTURER AND MODEL NUMBER	REMARKS
(D1) -	0	15	6 INCH DOWNLIGHT	LED	RECESSED	LITHONIA #EVO-35/1500-6AR MVOLT-ISD-BC - N80	_
DS -	0	22	6 INCH DOWNLIGHT WET LOCATION	LED	RECESSED	LITHONIA #EVO-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			
(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)	p g	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⟩	\Diamond	12	WALL WASHER	LED	T-BAR	LITHONIA #EVO-WW-35/20-6AR-LS-MVOLT-EZ1-NPS80EZ	
$\left\langle \begin{array}{c} X \\ - \end{array} \right\rangle$	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	

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
©	PHOTOCELL 120/277VAC
RPT	nLIGHT TRACK MAGNETIC DIMMER PCDMLV NSP5
CDP	nLIGHT CONTROLLER DIMMER PACK #nPS80EZ
PCD	nLIGHT INCANDESCENT PHASE CONTROLLED DIMMING

REVISIONS	DATE	BY
<u> </u>		
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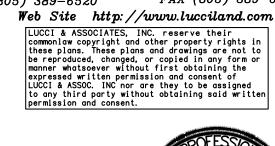
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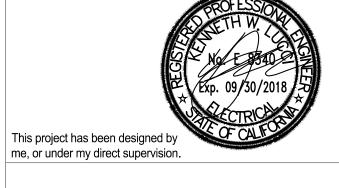
ARCHITECTURE PLANNING DESIGN

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CIVIL ENGINEER:

STRUCTURAL ENGINEER:

ELECTRICAL ENGINEER: LUCCI & ASSOCIATES KEN LUCCI 805/389.6520

MECHANICAL ENGINEER:

LANDSCAPE ARCHITECT:

WATER SYSTEM / FIRE PROTECTION SYSTEM:

LIGHTING FIXTURE SCHEDULE AND CONTROL LEGEND

SHEET NAME

09-03-2017

AS SHOWN

E3.00.1

SHEET NUMBER

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

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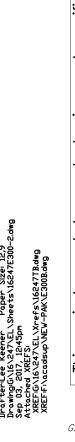
C16 - 006

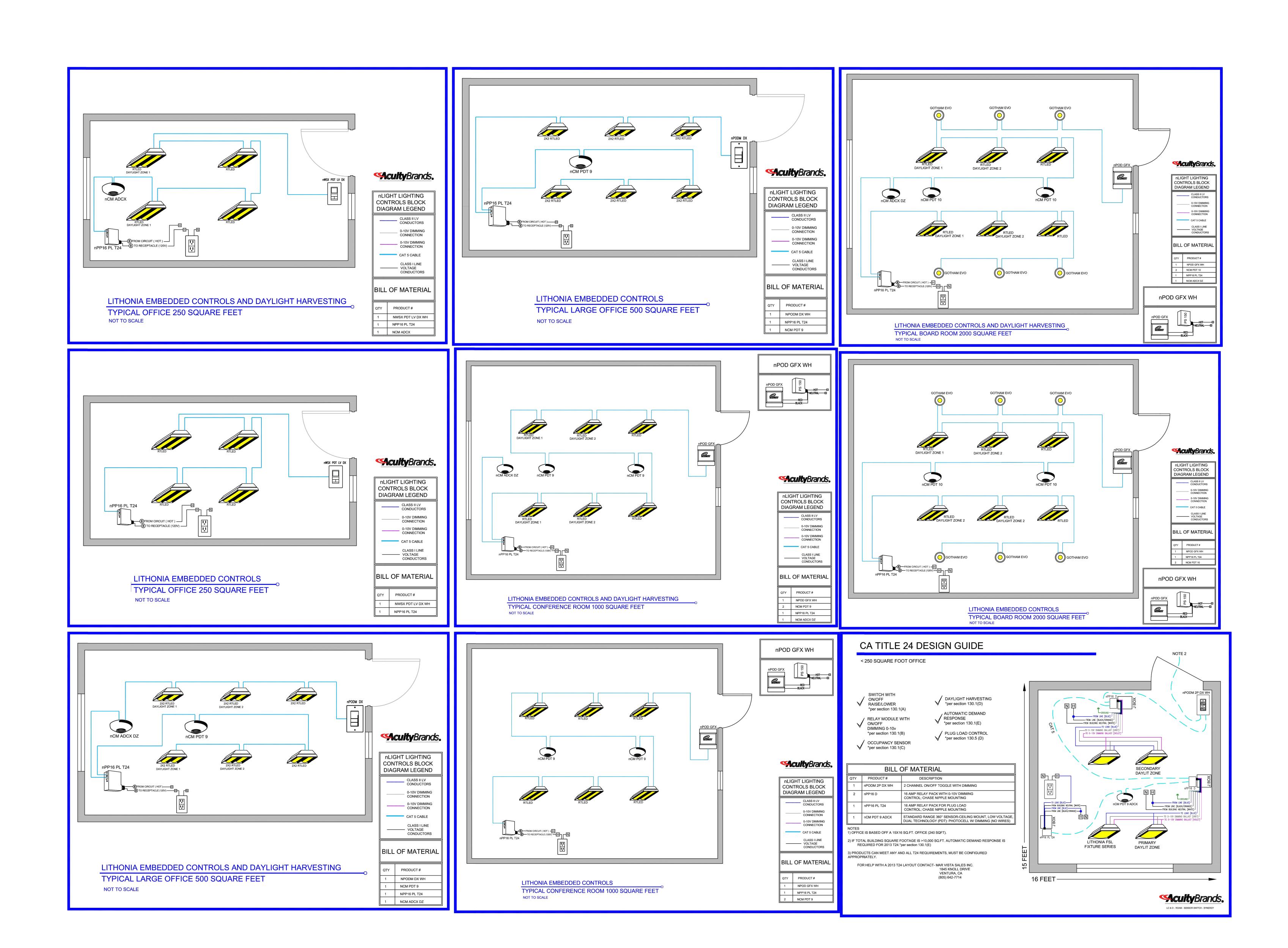
OF

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SHEETS







ROY E COLBERT

REVISIONS

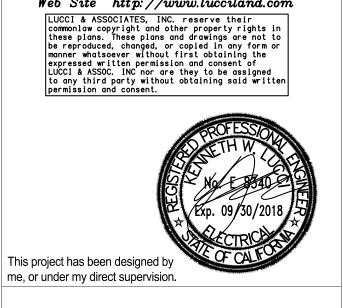
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N.C.A.R.B.

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M&O: MAINTENANCE & OPERATIONS ADMIN RENOVATION

PROJECT DIRECTORY

SOILS ENGINEER / SEPTIC SYSTEM:

XXXX

CIVIL ENGINEER:

STRUCTURAL ENGINEER: XXXX

ELECTRICAL ENGINEER:

KEN LUCCI 805/389.6520

LUCCI & ASSOCIATES

MECHANICAL ENGINEER: XXXX

LANDSCAPE ARCHITECT:

WATER SYSTEM / FIRE PROTECTION SYSTEM:

nLIGHT ROOM LAYOUTS

SHEET NAME

09-03-2017

AS SHOWN

C16 - 006 00

E3.00.2 SHEET NUMBER

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

OF

SHEETS

805 / 650 . 9590 PH

805 / 650 . 9589 FX

REVISIONS

AcuityControls

Wallpod: On/Off & On/

Off+Raise/Lower

to any third party without obtaining said writt permission and consent.

VENTURA COLLEGE 4667 Telegraph Road Ventura, CA 93003

MAINTENANCE & OPERATIONS ADMIN

RENOVATION

CIVIL ENGINEER: XXXX

STRUCTURAL ENGINEER: XXXX

ELECTRICAL ENGINEER: LUCCI & ASSOCIATES

KEN LUCCI 805/389.6520

LANDSCAPE ARCHITECT:

WATER SYSTEM / FIRE PROTECTION SYSTEM:

nLIGHT CUT SHEETS

09-03-2017

OF

SPECIFICATIONS Patented Dual Technology with PIR / 360° Small Motion Coverage Integrated On/Off Photocell Push-Button Programmable Adjustable Time Delay 100 Hr Lamp Burn-in Timer Green LED Indicator PHYSICAL SPECS

SIZE: 4.55" Dia. (11.56 cm)

Ceiling Tile Surface 3.5" Octagon Box

ELECTRICAL SPECS

SILICONE FREE

UL and CUL Listed

Title 24 Compliant

Assembled in the U.S.A.

ORDERING INFO

Blank = None

nCM PDT 9 & nCM PDT 9 ADCX

5 Year Warranty

ROHS COMPLIANT

Single Gang Handy Box

nLIGHT NETWORK PORTS: 2 RJ-45

~40 Ballasts/Drivers @ .5mA each

POWER CONSUMPTION: < 3 mA

DIMMING LOAD (ADC version):

ENVIRONMENTAL SPECS

14° to 160° F (-10° to 71° C) RELATIVE HUMIDITY:

20 to 90% non-condensing

1.55" Deep (3.94 cm)

WALL SWITCH SENSOR • LOW VOLTAGE

nWSX LV NL

nWSX PDT LV NL

Push-button programmable, adjustable time delays, multiple operating modes

daylight, but does not turn lights off. Photocell not available in NightLight version.

• 100% digital PIR detection, vandal resistant lens standard, includes wall plate (screwless sold separate)

Aultiple **nWSX** sensors or WallPods can be used in 3 way (or greater) configurations w/o traveller wires

cell standard (disabled by default) — prevents lights from initially turning on if sufficient

Broadcasts occupancy, photocell, and switch information over a local and/or global nLight channel

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

PASSIVE INFRARED (PIR) or DUAL TECH (PDT)

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

Follows dimming commands from nLight WallPod dimmer or SensorView software ADC version adds 20 AWG violet (dim an 18 AWG green ground wire LOW TEMP/HIGH HUMIDITY (LT) Sensors with Passive Dual Technology (PDT) Sensor electronics are coated for Operates down to -4° F (-20° C)

irst see motion using Passive Infrared (PIR) output to full bright, thus ensuring emergency lighting is on. During this emergency detection and then engage Microphonics™ operation period, the unit will not allow any switching or dimming to take place regardless to hear sounds that indicate continued freezer applications 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

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 347 VAC (347) 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 to follow all occupancy, photocell, and switch commands on Channel 1.

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

requirements of T5 fluorescent and LED loads. These power packs also provide nLight system

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

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

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

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

is connected to the line side of its relay. The power feed to emergency lighting is connected DIMMING CONTROL (D, DS)

through the chase nipple (nPP16 D) or out the side of the enclosure (nPP16 DS).

control applications. The **nPP16** family is capable of switching loads up to 16 Amps via

bus power - up to 40mA from each of its two RJ-45 ports - by transforming Class 1 line

made available over the network for Bridges and devices in other zones to utilize.

an internal latching relay designed with robust protection from the harsh switching

Occupancy, Photocell, & Switch Tracking Channel (1-16 each) 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 Special Operating Modes: operational sequences are selectable via the unit's push-button or SensorView software. If communication is lost between an **nPP16** family power/relay pack and all other nLight Override On, Manual On to Full Auto, Predictive Off 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. Maintain Dim Level When Vacant

CAUTION: RISK OF PRODUCT DAMAGE ostatic Discharge (ESD): ESD can damage product(s). Personal groun g all installation or servicing of the unit. requirements.

All wiring connections should be capped with UL approved

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

for each button. The rPODB wall switches communicate with other nLight AIR devices via radio frequency

switch operation. Wall switches with the DX option have the added ability to adjust the level of any nLight

(RF). A basic battery-powered wall switch can work with any nLight AIR enabled fixture to provide toggle

Powered with three off-the-shelf AAA Lithium size batteries and rated for 10 years of normal use,

Communicates with nLight® AIR devices via radio frequency (RF) in the 900MHz spectrum

Custom button engraving at no charge (WH, IV, AL GY units only)

Batteries included and preinstalled... Just unbox and mount

Five-year limited warranty. Complete warranty terms located at:

To learn more about A+, visit <u>www.acuitybrands.com/aplus</u>.

Specifications subject to change without notice.

www.acuitybrands.com/CustomerResources/Terms and conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application.

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.

minimizing battery replacement. (Battery replacement with alkaline batteries does not guarantee a

wire-free switch, these single gang decorator style devices have soft-click buttons and a green LED indicator

FREQUENCY: 50/60 Hz

BUS OUPUT CURRENT/VOLTAGE:

MAX DIMMING LOAD (with -D option):

nLIGHT NETWORK PORTS: (2) RJ-45

Sinks 100 mA; 0-10 VDC dimmable

40mA / port @ 15 VDC

ballasts or LED drivers

Dimming

D 0-10 VDC Dimming Output

(via chase nipple)

DS 0-10 VDC Dimming Output

ASSEMBLED in U.S.A.

(via side slot)

Temp/Humidity

LT Low Temp

Note: For information on current monitoring relay packs, see the nPP16 IM series datasheet.

READ AND FOLLOW ALL SAFETY INSTRUCTIONS! SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER AFTER INSTALLATION

(blank) None

(non-ER units only)

PHYSICAL SPECS

WEIGHT: 6 oz

SIZE: (not incl. 1/2" chase nipple

MOUNTING: 1/2" knockout

White (Standard)

(blank) None

5-year limited warranty. Complete warranty terms located at

www.acuitybrands.com/CustomerResources/Terms and conditions.aspx

Battery powered,

nLight® AIR Platform

Wall Switch

RED (-ER versions)

BLUE (-PL T24 versions)

3.38" H x 2.53" W x 1.83" D

(8.59 cm x 6.43 cm x 4.65 cm)

(7/8" hole) on box or fixture

Do not exceed maximum wattage, ratings, or published operation conditions of product. CAUTION - RISK OF INJURY Sensor Switch 900 Northrop Road, Wallingford, CT 06492 Phone: 1-800.PASSIVE sensorswitch.com/nLight ©2014 Acuity Brands Lighting, Inc. All rights reserved 07/14/14

• 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 instruincluded 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 recommende

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

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 75° C. Diagram for non-dimming unit (-D or -DS suffix) O VAC BLK¹ (line in) ORN¹ (line in) BLU (line in) BLU (line out)

BLK - 120 VAC ORN - 277 VAC (or 347 VAC if unit has 347 option)

Diagram for units with a dimming option Diagram for non-dimming units (-D or -DS suffix) VIO (low voltage dim out) 0-10 VDC Ballast or GRY (low voltage LED Driver nPP16 D ER RED (277VAC (277VAC Emer. Feed) nPP16 DS ER BLU (Emer. Feed) BLU (Emer. Feed) WHT w/ RED (Emer. Neutral) Notes 1) YEL - 120 VAC; RED - 277 VAC (or optional 347 VAC)

Following above wiring diagram, connect wires to line voltage feed(s), neutral(s), and load.

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.

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S4+ Capable

ORDERING INFORMATION [blank] On/off Control WH White GY Gray DX On/off + Raise/Lower Control AL Light Almond

RPODB can control up to 128 (RES7N) fixtures in a network; RPODBZ can control up to 50 (RES7Z

Acuity Brands | One Lithonia Way Conyers, GA 30012 Phone: 800.535.2465 www.acuitycontrols.com

SPECIFICATION:

Dimensions 2.74" H x 1.68" W x 1.63" D (6.96 cm x 4.27 cm x 4.14 cm) 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 CL**AIR**ITY 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

On/Off Control On/Off +raise/ Two Pole On/Off Two Pole On/Off Lower Control Controls + two raise/lower

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. 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

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4. Screw down wall plate - DONE!

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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

PRODUCT OVERVIEW

includes an integrated photocell (disabled by default)

between the device and luminaire; no dimming wires, relays, or bus power supply required. Remotely firmware upgradeable **CONTROL MODES** NIGHT LIGHT (NL) — Adds white LED night light A control zone with an **nWSX LV / nWSX PDT LV** can operate in several modes: 1. Auto On / Auto Off (i.e. Fully Automatic) **DIMMING CONTROL (DX)** — Enables raise/lower control of any nLight device with a dimming output 2. Manual On (initial state) to Override On (with expiration timer) (e.g. nIO D, nEPP5 D, nSP5 PCD, sensors w/ ADC or D option & digital luminaires with integrated nIO LED) 3. Auto On (initial state) to Override On (with expiration timer) LOW TEMPERATURE / HIGH HUMIDITY OPTION (LT) 4. Manual On / Automatic Off (i.e. Semi-Automatic) • Device electronics are coated for corrosion resistance - required for cold storage or humid areas 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)

 $The \, \textbf{nWSX\,LV}/\textbf{nWSX\,PDT\,LV} \, Series \, n Light \, wall \, switch \, occupancy \, sensor \, provides \, a \, simple \, control \, solution$

 $for a small \ room, in particular \ one \ utilizing \ nLight \ enabled \ digital \ luminaires. \ Capable \ of \ detecting \ small$

motion up to 20 ft (6.10 m), this sensor is perfect for private offices, private rest rooms, copy rooms, dose

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

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)

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

first see motion using Passive Infrared (PIR) and then engage Microphonics to hear sounds that indicate

 Operates down to -40° F/C (-4° F / 20° C for PDT) **SPECIFICATIONS**

SIZE: 2.74" H x 1.68" W x 1.63" D (6.96 cm x 4.27 cm x 4.14 cm) MOUNTING: Single Gang Switch Box or Low Voltage Ring nLIGHT BUS POWER CONSUMPTION <3 mA ENVIRONMENTAL & OTHER OPERATING TEMP: 14° to 160° F (-10° to 71° C) RELATIVE HUMIDITY: 20 to 90% non-condensing SILICONE FREE, ROHS COMPLIANT

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.

nWSX PDT LV

ORDERING LOGIC

Example: nWSX PDT LV DX WH Temp / Humidity **nWSX LV** Passive Infrared IV Ivory NL Integrated Night Light LT Low Temp/ High Humidity DX Raise/Lower Dim Control **GY** Gray

nWSX PDT LV Dual Technology

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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

3-WAY SWITCHING AND DIMMING CONTROL

To other nLight devices (optional)

• nLight enabled fixture must have **nIO LED LC N80/N100** for standalone operation

only program **nWSX LV / nWSX PDT LV** for Multi-Level Operating Mode (MLO)

nPOD GFX

GRAPHIC WALLPOD

The Graphic WallPod (nPOD GFX) provides an

elegant and sophisticated user control to any

uminaires 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

____ Small motion ~40 ft coverage _____

detection to ~20 ft Large motion detection to >36 ft —— 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. BI-LEVEL SWITCHING USING MULTI-LEVEL OPERATING MODE (MLO)

WIRING to nLIGHT ENABLED DIGITAL LUMINAIRE (e.g. RTLED)

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.

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 de a Returned Material Authorization number and repair or replace returned product.

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SPECIFICATIONS 5" Full-color Touch Screen (Diagonal) Provides up to 16 On/Off/Dim Controls Provides up to 16 Scene Controls

nLight controlled space. Its 3.5", high resolution touch screen is easy to view and simple to use. **CONTROL FUNCTIONALITY** Enables User Customization of all Presets and On/Off/Dim Controls The Graphic WallPod fundamentally operates as a multi-channel user control device. It is configurable to display up to 16 controls **Enables Programming of Switch** (either on/off, or on/off/dim style) as well as 16 scene selection buttons. Each Tracking Channels of Devices in Zone screen displays two controls or groups of 4 scenes with simple left/right paging Front Assessible Micro-USB Connector style navigation between screens. for Simple Laptop Connectivity A control is activated simply by touching the screen. The unit instantly Optional Password Protection for Controls and Setup Screens communicates the desired action throughout the connected zone of nLigh Customizable Screen Saver Image devices. All devices programmed to listen for (track) commands from switches on Onboard Help Screens 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 SIZE 5.06" H x 3.50" W x 0.69" D WallPod automatically discovers and displays a list of all devices with relays and (12.85 cm x 8.89 cm x 1.75 cm) dimming outputs within its zone. The switch tracking settings on these devices can then be modified from the Graphic WallPod. MOUNTING Single-Gang Low Voltage Switch Box or Ring MOUNTING HEIGHT (recommended) 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 60 in (152 cm) applicable button then instantly communicates the group of presets out to the White, Ivory, Black, Light Almond, Gray devices in the zone. NLIGHT NETWORK CONNECTION ELECTRICAL SPECS POWER CONSUMPTION 60m/ WIRES None

PHYSICAL SPECS

PS-150 (347) via Terminal Connections 14° to 160° F (-10° to 71° C) RELATIVE HUMIDITY 20 to 75% non-condensing ROHS COMPLIANT

Title 24 System Componen

Assembled in the U.S.A.

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) ORDERING INFO nPOD GFX [POWER SUPPLY VOLTAGE] [COLOR] Blank = 120/277 VAC WH = White GY = Grav

IV = Ivory

AL = Light Almond

 Custom Name of each Control Screen Saver Time Out Period

BK = Black

SWITCH **INSTALLATION / STARTUP**

> · 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

nsor Switch be liable for any incidental or consequential property damages or losses.

STANDARD RANGE 360° SENSOR CEILING MOUNT • LOW VOLTAGE • DUAL TECHNOLOGY (PDT) Open area office lighting control is made

AUTOMATIC DIMMING CONTROL cost effective with the use of the nCM PDT PHOTOCELL (ADCX / ADC) total room light level by automatically Typically used with remote nLight 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

9 Series Standard Range 360° occupancy sensor. This small, yet powerful sensor provides line of sight PIR detection of small

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 cupancy 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

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. 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.

nCM PDT 9 [DAYLIGHTING] [TEMP/HUMIDITY] Blank = Standard LT = Low Temp

Note: Sensor's screw

axis is aligned with a

long detection segment

ADCX = Auto Dimming Control Photocell (no wires) ADC = Auto Dimming Control Photocell (with 0-10 VDC wires)

Revised 11,07,13 @ 2013 Sensor Switch **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. nCM PDT 9 ADC BLK - 120 V ORN - 277 V BLU LOAD ORN - 277 V VIO (Dim Output) GRY (Common)

*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 **COVERAGE PATTERN TOP VIEW** STANDARD RANGE 360° LENS WITH MICROPHONICS™ Best choice for small motion (e.g. hand movements) detection Viewing angle of 56° in a 360° conical shaped pattern Provides 12 ft (3.66 m) radial coverage when mounted to standard 9 ft 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.

1.8 0 m 1.8 **INSTALLATION** Mount sensor directly to a ceiling tile or a metallic grid (two selftapping 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 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

An**≪Acuity**Brands Company

NLIGHT NETWORK

WallPod



· 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)

ARRANTY: Sensor Switch warrants these products to be free of defects in manufacture and workmanship for a TATIONS AND EXCLUSIONS: This Warranty is in full lieu of all other representation and expressed and implied nties (including the implied warranties of merchantability and fitness for use) and under no circumstances shall 900 Northrop Road, Wallingford, CT 06492 • 1.800.PASSIVE • FX 203.269.9621 • www.sensorswitch.com

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 • 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 Unit operates down to -40° F/C

Controls luminaires powered via an emergency circuit

Model #: nPP16 (D)

separate side output (**DS** option)

EMERGENCY OPERATION (ER)

POWER / RELAY PACK w/

Provides dimming outputs to control 0-10 VDC dimmable ballasts or LED drivers

• Follows dimming commands from nLight dimming WallPods, Photocells, Scene

• Adds 20 AWG (600V rated) violet & gray wires through chase nipple (**D** option) or via a

Isolated dimming circuitry provides robust network protection from ingress noise or line

Monitors normal power and overrides relay closed and sets dimming output (if present)

OPTIONAL DIMMING and EMERGENCY OPERATION

Model #: nPP16 (D) ER

SPECIFICATIONS

347 VAC (with -347 option)

16A @ 120 VAC/ 277 VAC

MAX RECEPTACLE LOAD: 16A

Voltage

(blank) 120/277 VAC

347 347 VAC

Expanding the boundaries of lighting™

AIR controlled dimmable light fixture.

Soft-click push-button control

Wireless multi location dimming

1 or 2 on/off

1 or 2 raise/lower

MOTOR LOAD: 1 HP

RELAY TYPE: Latching

MAX LOAD: (No derating necessary)

16A @ 347 VAC (with -347 option)

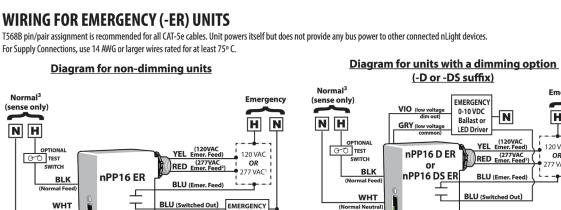
ORDERING INFORMATION

these channels via their tracking channel settings. By default, a standard nPP16 is configured OPERATIONAL SETTINGS Several operational settings for the **nPP16** family are available, including: Override (On/Off/Normal) & Relay Test Mode (Enable/Disable) Once powered, units close their relay. If an nLight occupancy sensor is connected, the pack Occupancy, Photocell, & Switch Tracking (Enable/Disable) will automatically start following the occupancy status of the sensor. The factory default

Manual On to Auto Off (Semi-Auto), Auto to (Timed) Override On, Manual to (Timed) Occupancy Expiration of Manual Off / Timed Expiration of Manual Off Occupied Bright Level & Unoccupied Dim Level

Note: For information on current monitoring relay packs, see the nPP16 IM series datasheet. Sensor Switch 900 Northrop Road, Wallingford, CT 06492 Phone: 1-800.PASSIVE sensorswitch.com/nLight ©2014 Acuity Brands Lighting, Inc. All rights reserved 07/14/14

> nPP16 Power / Relay Pack Diagram for units with a dimming option



2) Normal Power connection can sense 120-347VAC **GENERAL INSTALLATION INSTRUCTIONS** • Mount through a ½" knockout in any junction box or luminaire. Secure with lock nut.

 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

Refer to included instruction card for default settings and directions on programming the sensor via the push-button. riod of 60 months. Sensor Switch, upon prompt notice of such defect, will, at its option, provide a Returned Material ATIONS AND EXCLUSIONS: This Warranty is in full lieu of all other representation and expressed and implied ties (including the implied warranties of merchantability and fitness for use) and under no circumstances shall ensor Switch be liable for any incidental or consequential property damages or losses. 900 Northrop Road, Wallingford, CT 06492 • 1.800.PASSIVE • FX 203.269.9621 • www.sensorswitch.com

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 zone is connected to an nLight backbone with a Gateway. **Note:** no power is used/supplied from/to the nLight bus.

upgrades of devices within the Graphic WallPod's local zone. Remote access and control is available via SensorView if the

SELECTED CONFIGURATION SCREENS

nPP16 Power / Relay Pack 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 ENVIRONMENTAL SPECS added ability to adjust the level of any nLight controlled dimmable lighting. Standard: 14° to 122° F (-10° to 50° C) LT Option: -40° to 122° F (-40° to 50° C) FEATURES Communicates with nLight network Standard: 20 to 75% non-condensing Remotely configurable/upgradeable LT Option: 20 to 90% non-condensing Soft-click push-button control Custom button engraving at no charge (WH, IV, AL GY units only) 1, 2, or 4 channel on/off

SILICONE FREE 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) **Default Mode**

Weight: 2 oz Mounting: Single Gang Switch Box or Low Voltage Ring (blank) Auto On (Switch Ch. 1) Color: White, Ivory, Lt. Almond, Gray, Black, Red SW2 Auto On (Switch Ch. 2) nLight Network Ports: 2 RJ-45 Power Consumption: < 5 mA Wires: None RoHS Compliant, Title 24 System Component

SA Manual On (Switch Ch. 1) SA2 Manual On (Switch Ch. 2) PL T24 Occ. only Tracking (CA-T24 Plug Load) 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. ORDERING INFORMATION WH White [blank] Normal [blank] Standard [blank] Single channel [blank] On/off control Two channels DX On/off + raise/lower control CCT¹ Correlated color temperature IV Ivory 4P Four channels GRSC¹ Grayscale COLOR¹ Color control AL Almond BK Black

RD Red **CUSTOM BUTTON ENGRAVING** 1. Only available on 2P DX configurations 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. Acuity Brands | One Lithonia Way Conyers, GA 30012 Phone: 800.535.2465 www.acuitycontrols.com © 2014-2016 Acuity Brands Lighting, Inc. All rights reserved. Rev. 09/15/16

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). **Acuity**Controls WallPods and/or nLight wall switch sensors can be configured together to create zones with multiple switching locations

ON/OFF OFF nPODM 2P DX nPODM 4P nPODM 4P DX nPODM nPQDM DX nPODM 2P Dynamic wallpod options feature custom button names when pairing with Acuity Brands nTUNE(TM) fixtures. Reference fixture cut sheets for additional details.

Acuity Brands | One Lithonia Way Conyers, GA 30012 Phone: 800.535.2465 www.acuitycontrols.com

Interconnect unit with other nLight devices in lighting zone using CAT-5e cables

Attention! Only use non-booted CAT5e cables.

Acuity Brands | One Lithonia Way Conyers, GA 30012 Phone: 800.535.2465 www.acuitycontrols.co

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Once power is received via CAT-5e connection, all devices in zone will automatically begin

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).

Access RJ-45 ports by sliding plastic guard up

Slide guard back onto metal strap

Insert CAT-5e cable(s), T568B wiring convention recommende

functioning together according to respective device's defaults

Mount WallPod using holes that align with standard single gang switch box or low voltage ring

COLOR

nPODM 2P DX CCT nPODM 2P DX GRSC nPODM 2P DX COLOR Custom lettering for WH, IV, AL, and GY units can be specified and ordered at no charge at:

MECHANICAL ENGINEER: XXXX

SHEET NAME

PROJECT THIS PLAN IS BASED UPON DATA COMPILED

AND FURNISHED BY OTHERS.

L.A.I.# 16247 PAPER SIZE 42"x30"

SOILS ENGINEER / SEPTIC SYSTEM:

AS SHOWN

SHEET NUMBER

PROJECT DIRECTORY

SHEETS

G: \16\247\EL\Sheets\16247E300-3.dwg Sep 03, 2017, 12:45pm Lee Keener Lee Keener G.\16\247\FI\Sheets\16247F300-3 dwa. DATE MAY 19 2017 TIME 11:33 AM

347 = 347 VAC

Required power supply. PS 150 (347), is included

SEE E3.00 FOR LIGHTING

FIRE ALARM CONTROL BOX

TO REMAIN -

EM BALLAST

Ø EM BALLAST

CONNECT TO EXISTING CIRCUIT

CONNECT TO EXISTING CIRCUIT C1-4

EXISTING TO REMAIN —

CONTROLS —

— PANEL 'C1'(X)

PROJECT DIRECTORY

CIVIL ENGINEER:

STRUCTURAL ENGINEER:

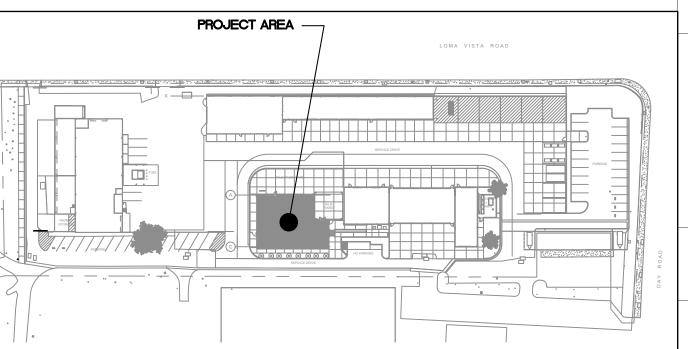
ELECTRICAL ENGINEER:

LUCCI & ASSOCIATES

MECHANICAL ENGINEER:

LANDSCAPE ARCHITECT:

WATER SYSTEM / FIRE PROTECTION SYSTEM:



KEY MAP

THIS PLAN IS BASED UPON DATA COMPILED

ROY E COLBERT

REVISIONS

ARCHITECTURE PLANNING DESIGN

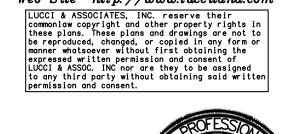
353 SAN JON ROAD VENTURA, CA 93001

805 / 650 . 9590 PH 805 / 650 . 9589 FX rcolb@sbcglobal.net CALIFORNIA C12050

N.C.A.R.B.

תענו עבדונועניבוני אי ועעניב CONSULTING ELECTRICAL ENGINEERS 3251 CORTE MALPASO, #511 CAMARILLO, CA 93012-8094

(805) 389-6520 FAX (805) 389-6519 Web Site http://www.lucciland.com



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

M&O: MAINTENANCE & OPERATIONS ADMIN

SOILS ENGINEER / SEPTIC SYSTEM:

KEN LUCCI 805/389.6520



PROJECT

AS SHOWN C16 - 006

E3.01 00 SHEET NUMBER OF SHEETS

AND FURNISHED BY OTHERS.

SHEET NOTES:

HAVING JURISDICTION.

TO INSTALLATION.

DRAWINGS OR NOT.

SYSTEM CONDUITS.

6 WITH MOTION SENSOR.

8 C1-2 VIA LIGHTING CIRCUIT CONTROLLER B.

9 C1-2 VIA LIGHTING CIRCUIT CONTROLLER C.

(10) C1-2 VIA LIGHTING CIRCUIT CONTROLLER A.

12 PROVIDE CONSTANT "HOT" TO EM FIXTURE.

(13) BEGHELLI NUV NT VLO WT4000 WBD 120-277V PK.

RELOCATE AS NECESSARY.

(11) EXISTING EXTERIOR LIGHTING CONTROL TO REMAIN OPERATIONAL,

7 C1-2 VIA SPAK.

KEY NOTES:

€1 C1-3.

2 C1-5.

3 C1-7.

√5 C1−1.

 $\frac{\overline{W1}}{1}$ EXISTING

LUNCH ROOM

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

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

REPLACE $\frac{\text{YO}}{12}$ WITH $\frac{13}{13}$ TYPICAL ALL

Y2 EXISTING

1 - E3.01

FRAME UNLESS OTHERWISE NOTED.

1. CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND

PROPOSAL, ROUGH-IN, AND FINISH INSTALLATION.

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

7. CONTRACTOR SHALL PROVIDE ALL BACKING, BRACKETS, SUPPORTS, AND

8. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR

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

10. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING

MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING

REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID

INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES

2. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO

(JOE) 106



OFFICE

108

C1-13, 15, 17 —

RECEPTION

110 27" NETWORK

MONITOR @ 66"

C1-19, 21, 23 \rightarrow

+72" AFF 27" NETWORK

MONITOR @66"

W/FEEDER

+72" AFF

C1-49, 51, 53 —

LUNCH ROOM

WALL MOUNTED

TV (66" HT data)

OFFICE
(HILDA)
103

CONFERENCE

(unkown)

CORRIDOR

___ C1-34, 36

C1-69, 71

C1-65, 67

OFFICE
(MARTIN)
102

STORAGE

122

P.P.E.

STORAGE

CORRIDOR

RRID 112

/ PANEL C1 |

1-TIER

LOCKERS

SHWR/DRESS.

STORAGE

SHWR

117

WOMEN RR

115

MEN RR

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.

3. 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.

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.

REINSTALL PANEL COVERS ON ALL PANELS AFTER REWORK OF WALL. (805) 389-6520 FAX (805) 389-6519

3 REMOVE EXTRA GROUND BOND AT BOTTOM OF C1.

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.



ROY E COLBERT

ARCHITECTURE PLANNING DESIGN

353 SAN JON ROAD VENTURA, CA 93001

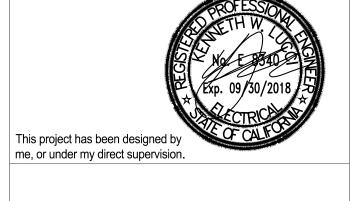
805 / 650 . 9590 PH 805 / 650 . 9589 FX rcolb@sbcglobal.net CALIFORNIA C12050

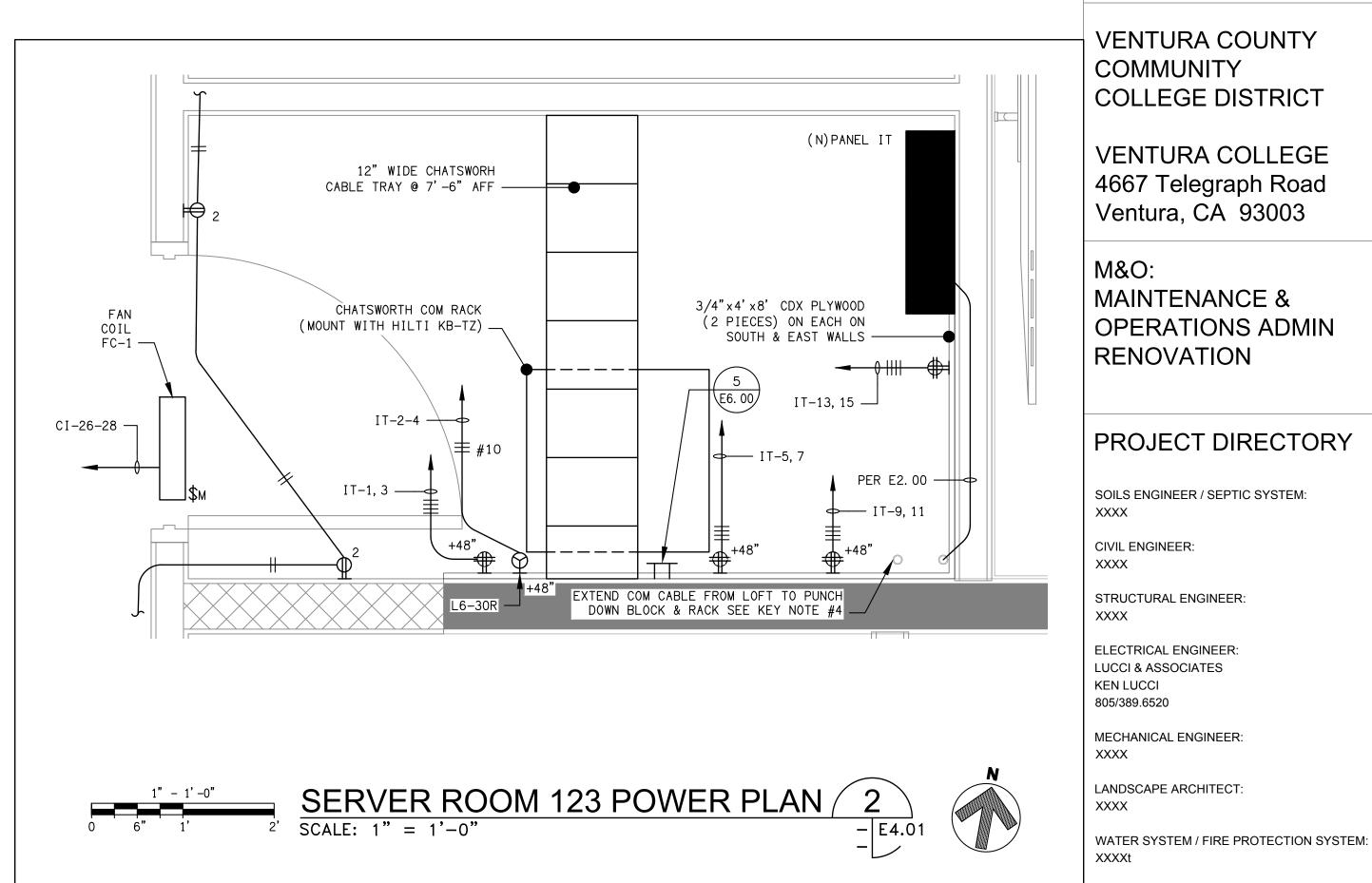
N.C.A.R.B.

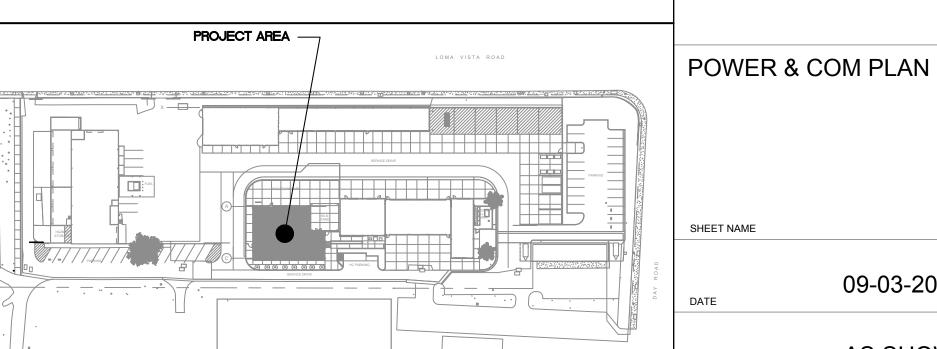
LUBBI & ABBUBLATEB LUB. CONSULTING ELECTRICAL ENGINEERS 3251 CORTE MALPASO, #511

CAMARILLO, CA 93012-8094 Web Site http://www.lucciland.com

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KEY MAP

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

C16 - 006 PROJECT E4.01

L.A.I.# 16247 PAPER SIZE 42"x30"

09-03-2017

AS SHOWN

00

SHEETS

SHEET NUMBER OF

G: \16\247\EL\Sheets\16247E401.dwg Sep 03, 2017, 12:46pm Lee Keener

rcolb@sbcglobal.net CALIFORNIA C12050 N.C.A.R.B. ८५४४ ३ अञ्चए४। ४४५४ ४४४

353 SAN JON ROAD

805 / 650 . 9590 PH

805 / 650 . 9589 FX

VENTURA, CA 93001

REVISIONS

VENTURA COUNTY

me, or under my direct supervision.

COMMUNITY COLLEGE DISTRICT

VENTURA COLLEGE 4667 Telegraph Road Ventura, CA 93003

M&O: MAINTENANCE & OPERATIONS ADMIN RENOVATION

PROJECT DIRECTORY

SOILS ENGINEER / SEPTIC SYSTEM:

CIVIL ENGINEER:

STRUCTURAL ENGINEER:

ELECTRICAL ENGINEER: LUCCI & ASSOCIATES

KEN LUCCI 805/389.6520 MECHANICAL ENGINEER:

LANDSCAPE ARCHITECT:

WATER SYSTEM / FIRE PROTECTION SYSTEM:

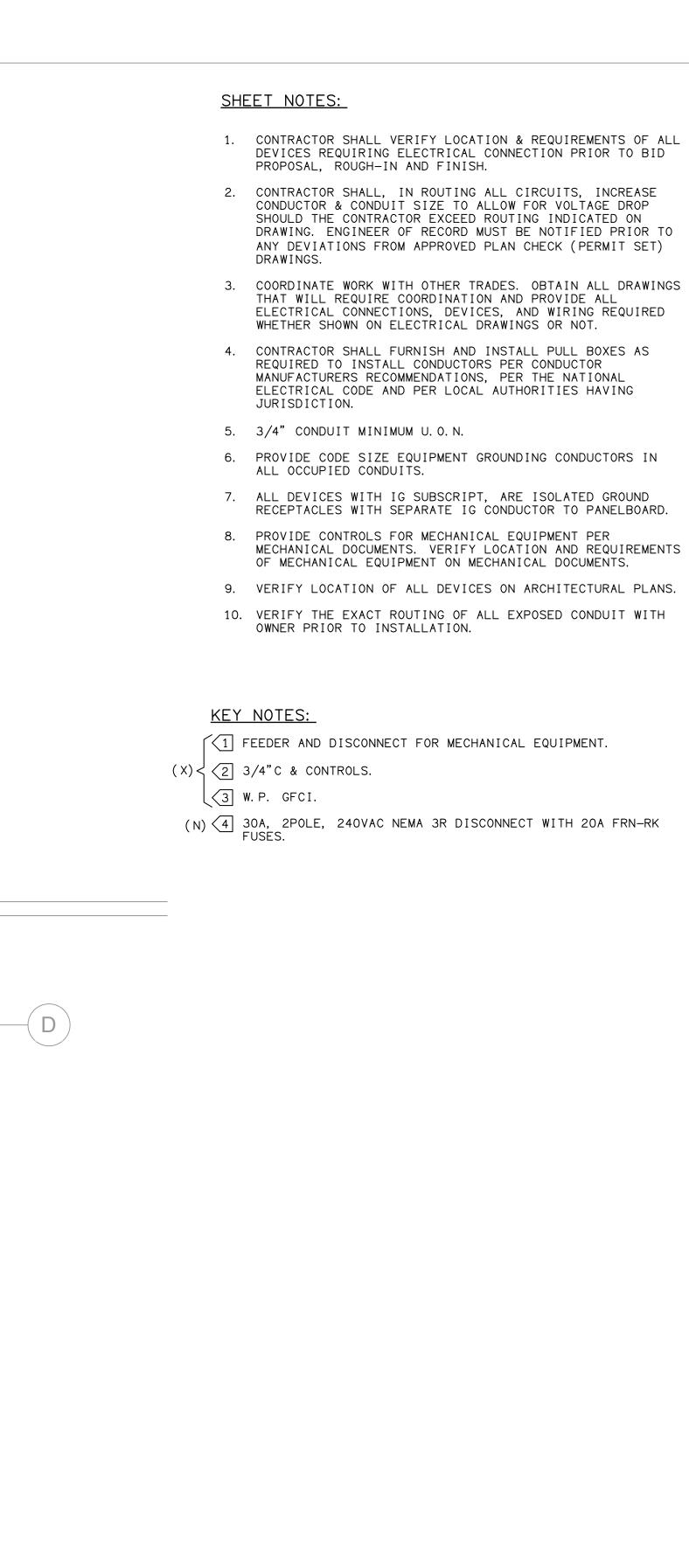
ROOF ELECTRICAL PLAN - BUILDING C

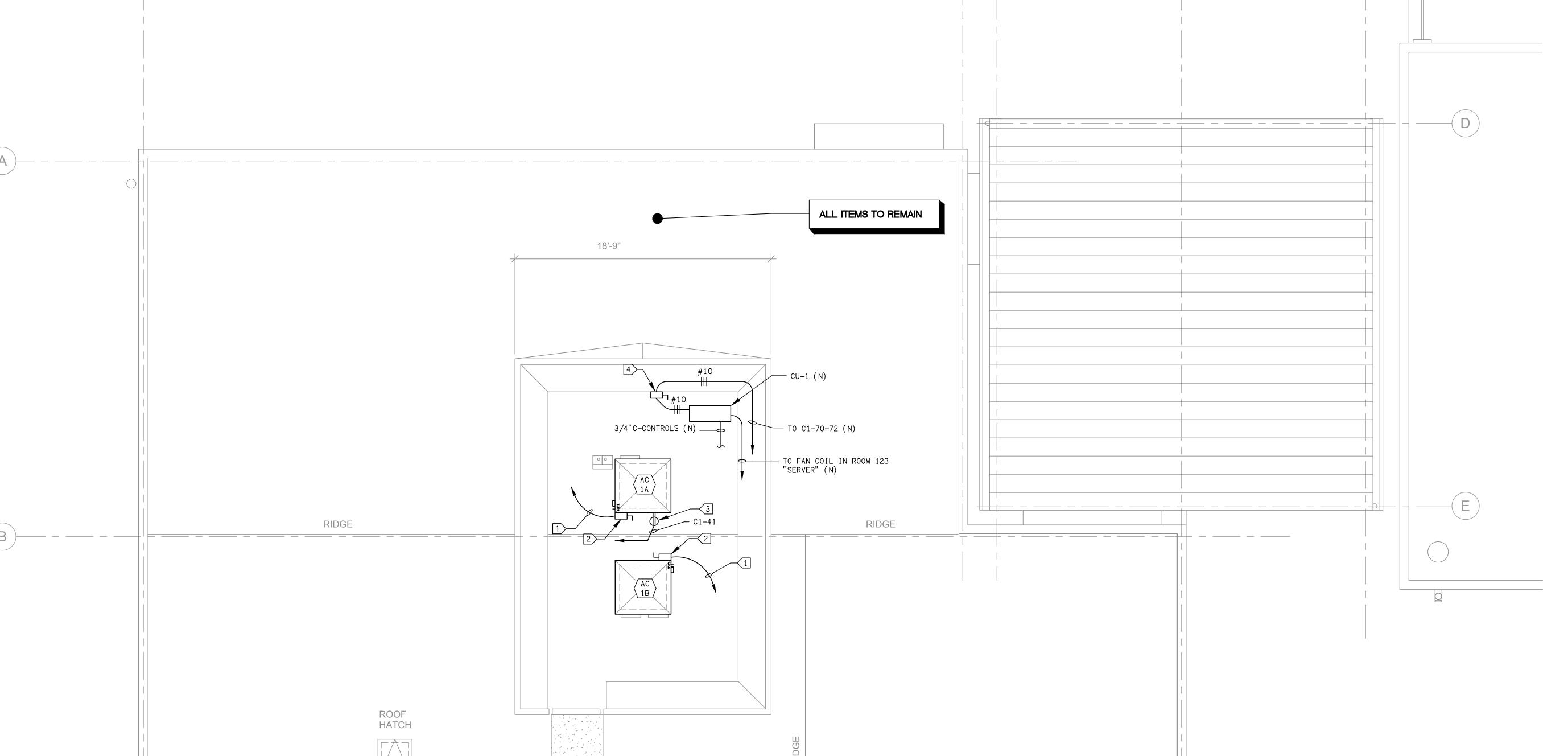
09-03-2017

AS SHOWN

C16 - 006

E4.20 00 SHEET NUMBER OF SHEETS





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

ROOF ELECTRICAL PLAN - BUILDING C
SCALE: 1/4"=1'-0"

CONSULTING ELECTRICAL ENGINEERS 3251 CORTE MALPASO, #511 CAMARILLO, CA 93012-8094 (805) 389-6520 FAX (805) 389-6519 Web Site http://www.lucciland.com LUCCI & ASSOCIATES, INC. reserve their commonlaw copyright and other property rights in these plans. These plans and drawings are not to be reproduced, changed, or copied in any form or manner whatsoever without first obtaining the expressed written permission and consent of LUCCI & ASSOC. INC nor are they to be assigned to any third party without obtaining said written permission and consent. This project has been designed by

SHEET NAME

KEY MAP

PROJECT AREA

BATTERY (+)

BATTERY (--) (付)

(-)(+)(-)(+)

 $\emptyset \emptyset \emptyset \emptyset$

ALARM System Troubleround Fault

AC Power DN SupervisoryPower Fault

4 3 2 1 8 7 6 5 4 3 2 1 4 3 2 1

00000 00000 J10

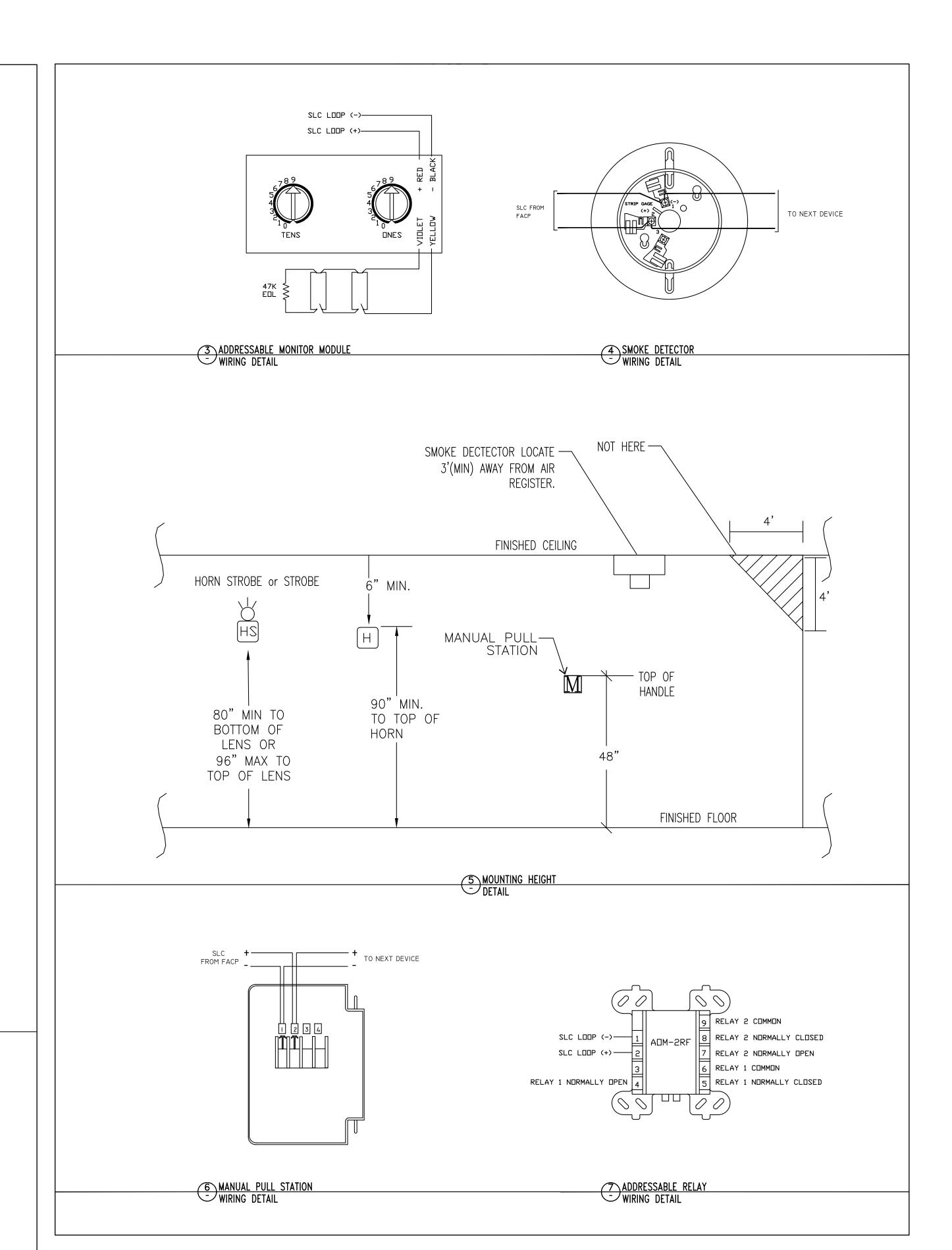
(-)(+)(-)(+)

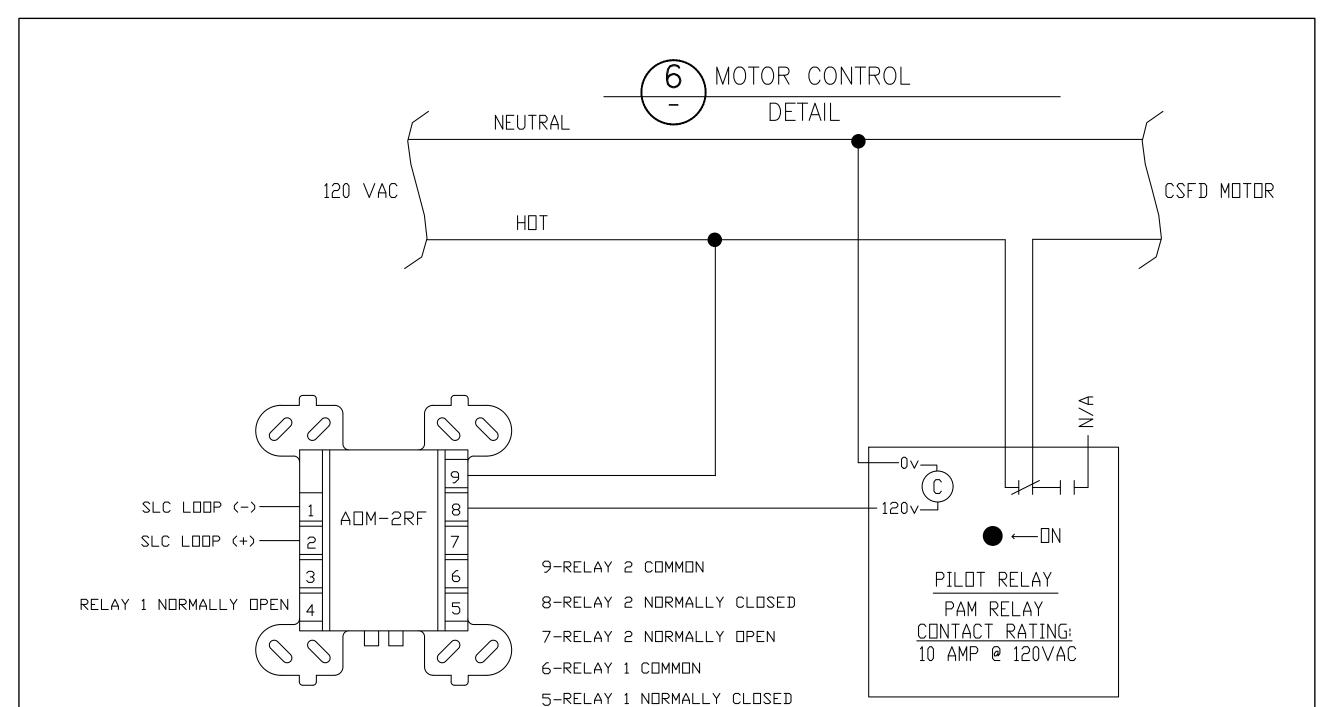
TROUBLE LED'S

J8 0000000 1_2 3 4 5 6 7_8 _{TB9}

 $\infty \parallel \otimes \parallel \longrightarrow$ DACT LINE 2 RING DUT (TO PHONE)

 $\bigcirc + -$ DACT LINE 2 TIP DUT (TO PHONE)





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

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

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:

NFPA 2001 Clean Agent Fire Extinguishing Systems

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 2016 Edition Stationary Pumps Private Fire Service Mains (California Amended) 2016 Edition NFPA 72 National Fire Alarm Code (California Amended) 2016 Edition (Note: See UL Standard 1971 for "Visual Devices") NFPA 80 Fire Door and Other Opening Protectives 2016 Edition NFPA 253 Critical Radiant Flux of Floor Covering Systems 2016 Edition

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															
		ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL	ACTUATE COMMON ALARM SIGNAL INDICATOR	DISPLAY CHANGE OF STATUS MESSAGE ON LCD DISPLAY	ACTUATE BUILDING GENERAL ALARM SIGNALS	ACTUATE LOCALIZED ALARM	TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION	120V SPRINKLER BELL	SYSTEM WILL BE 100% OPERATIONAL ON BATTERY BACKUP	NOT USED	NOT USED	CLOSES DURING SMOKE/HEAT DETECTION OR WATER FLOW & SHITS DOWN HAVE INITS
		А	В	С	D	E	F	G	Н	ı	J	К	L	М	N
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	E
	<u>^1</u>		
	\triangle		

ROY E COLBERT

ARCHITECTURE PLANNING DESIGN

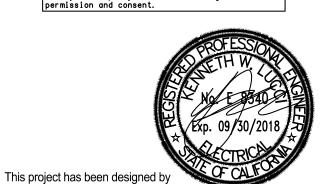
353 SAN JON ROAD VENTURA, CA 93001

805 / 650 . 9590 PH 805 / 650 . 9589 FX

rcolb@sbcglobal.net CALIFORNIA C12050 N.C.A.R.B.

८५५५। द अञ्चलकार्यम् । अस् CONSULTING ELECTRICAL ENGINEERS 3251 CORTE MALPASO, #511 CAMARILLO, CA 93012-8094

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VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

me, or under my direct supervision.

VENTURA COLLEGE 4667 Telegraph Road Ventura, CA 93003

M&O: MAINTENANCE & OPERATIONS ADMIN RENOVATION

PROJECT DIRECTORY

SOILS ENGINEER / SEPTIC SYSTEM:

CIVIL ENGINEER: XXXX

STRUCTURAL ENGINEER: XXXX

ELECTRICAL ENGINEER: LUCCI & ASSOCIATES KEN LUCCI

805/389.6520

XXXX

MECHANICAL ENGINEER:

LANDSCAPE ARCHITECT:

WATER SYSTEM / FIRE PROTECTION SYSTEM:

FIRE ALARM DETAILS

SHEET NAME

SCALE

09-03-2017

AS SHOWN

C16 - 006 PROJECT

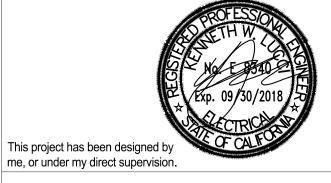
E5.00

SHEET NUMBER SHEETS OF

L.A.I.# 16247 PAPER SIZE 42"x30"

00

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VENTURA COUNTY

COLLEGE DISTRICT

VENTURA COLLEGE

4667 Telegraph Road

Ventura, CA 93003

MAINTENANCE &

RENOVATION

CIVIL ENGINEER:

KEN LUCCI

805/389.6520

SHEET NAME

DATE

SCALE

PROJECT

E5.01

SHEET NUMBER

STRUCTURAL ENGINEER:

ELECTRICAL ENGINEER: LUCCI & ASSOCIATES

MECHANICAL ENGINEER:

LANDSCAPE ARCHITECT:

WATER SYSTEM / FIRE PROTECTION SYSTEM:

FIRE ALARM SYSTEM -

BATTERY CALCULATIONS

EQUIPMENT LIST &

& PARTIAL EXISTING

CONDITION SITE PLAN

OPERATIONS ADMIN

PROJECT DIRECTORY

SOILS ENGINEER / SEPTIC SYSTEM:

COMMUNITY

M&O:

ROY E COLBERT

PLANNING DESIGN

REVISIONS

805 / 650 . 9590 PH 805 / 650 . 9589 FX

rcolb@sbcglobal.net CALIFORNIA C12050 N.C.A.R.B.

LUBBI E HERUBURIA E NUBL CONSULTING ELECTRICAL ENGINEERS (805) 389-6520 FAX (805) 389-6519

SUED

System Current Draw-GFPS-6 Standby 0.075 A Alarm 2.213 A Qty Draw Standby Qty Draw Alarm 0.759 A . System Modules Distributed Power Module (DPM) NAC 1 and 2 -- Class B 0.00000 0.00000 0.05000 0.10000 NAC 3 and 4 -- Class B 0.10000 0.00000 0.00000 0.05000 0 × 0.00000 0.00000 1 x 0.06500 0.06500 1 x 0.08500 0.08500 External Load A+A- 24VDC . NAC #1 1 x 0.05000 0.05000 1 x 0.07500 0.07500 0.09100 22 x 0.00030 0.00660 22 x 0.00650 0.14300 0.00000 0.11600 0.58000 0.00000 0.17600 0.00000 2 x 0.00030 0.00060 2 x 0.00700 0.01400 0.00000 0.00000 0.06600 0.85800 0.00000 0.18800 0.09400 0.00000 0.15800
 ▼
 2
 ×
 0.00000
 0.00000
 2
 ×
 0.22100
 0.44200
 0.00000 0.22100 ▼ 0 x 0.00000 0.00000 0.759 A NAC #1 Totals (Max 3.0 Amps): 0.00000 1.80800 0 x 0.00000 Other compatible devices 0.00000 0 x 0.00000 Other compatible devices 0.00000 0.00000 × 0.00000 Other compatible devices Total Standby Load: Total Alarm Load: 2.213 GFPS-6 Battery Calcs 0.075 Amps Standby Load Current load on the primary power supply during non-alarm conditions. 2.113 Amps Alarm Load Current load on the primary power supply during alarm conditions. 5.82 Amp Hours Load Requirements Total Secondary Load from the calculation table below. **Current Draw** Time (hours) Total (AH) Standby Load Required Standby Time 4.50 0.075 A 60 hours Required Alarm Time (hours) Alarm Load 0.167 hours 0.35 2.113 A 4.85 Total Secondary Load

System Current Draw

7100 Series Fire Alarm Control Panel

0.00000 ×

System Power Requirements

7100 Series Fire Alarm Control Panel

Total Standby 0.122 A

Standby Qty

0.122 A

Required Standby Time

60 hours

Required Alarm Time (hours)

0.166 hours

Total Secondary Load

Secondary Load Requirements 11.46 AH

Derating factor x 1.20

11.46 Amp Hours

12.00 Amp Hours

Standby Current

Draw

Total Alarm

Alarm Current

Alarm

Draw

Total Alarm

Load:

9.55

Gamewell Fire CONTROL STRUMENTS by Honeywell

Basic System Module, 1 or 2 SLC

ASD-PL2F Smoke Detector

4. Notification Appliances

Gamewell
Fire Control
instruments
by Honeywell

Battery Selection

Secondary Load Requirements

Total Secondary Load from the calculation table below

Standby Load

Alarm Load

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 = 3.2616 awg = 5.29

18 awg = 8.45 $D \times L \times R/1000 = Voltage Drop$

K - VD=End of Line VoltageVoltage DropVoltage Drop %EOLV0.7683.19823.232

 $(VD/K) \times 100 = Voltage Drop %$

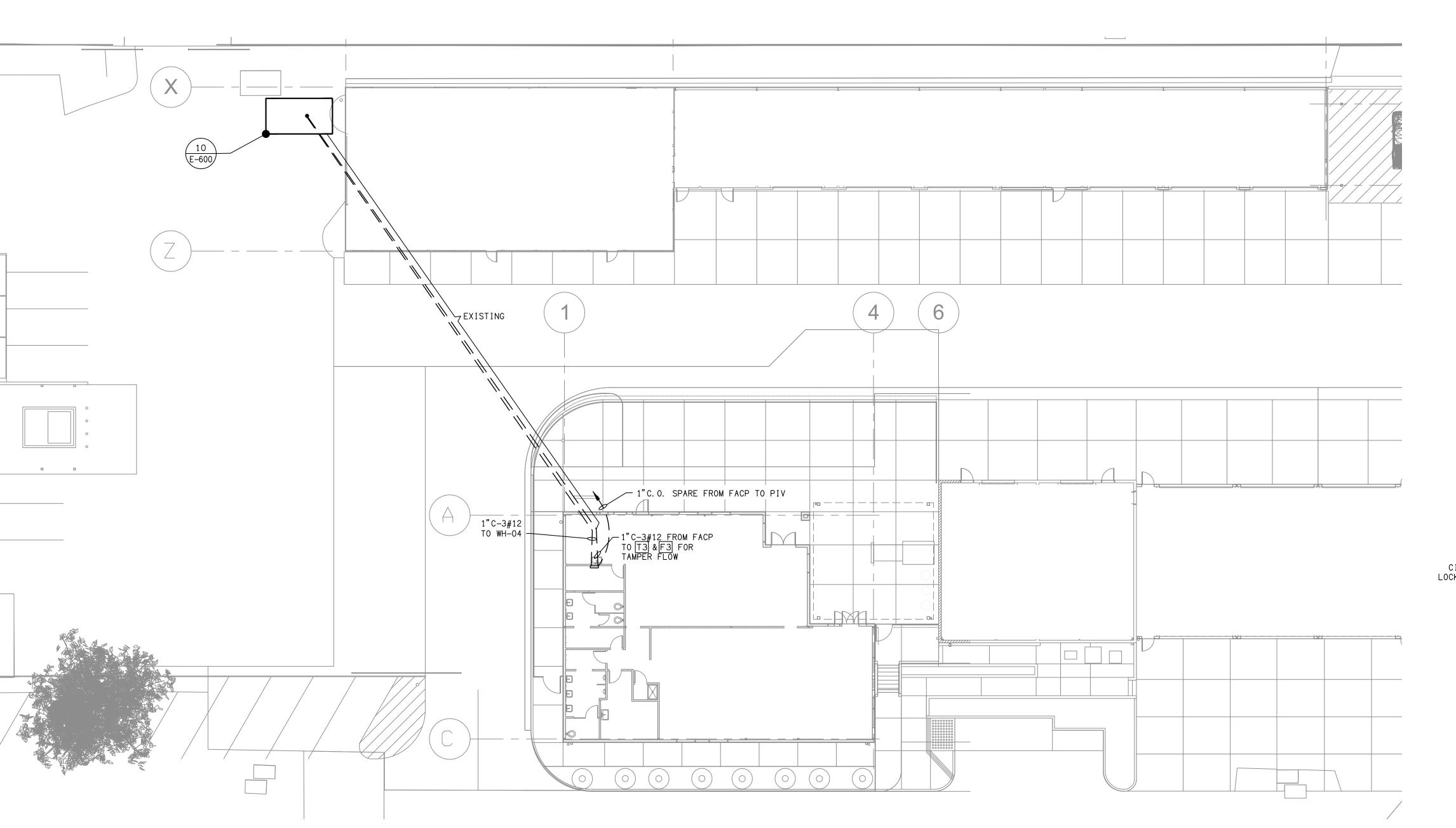
Optional Remote Serial Annunicator (LCD-7100)

1. System

2. Sensors

3. Modules

MS-7AE



PARTIAL EXISTING CONDITION SITE PLAN 2
SCALE: 1"=15'-0"

- E5.01

FIRE ALARM EQUIPMENT LIST

DESCRIPTION

FIRE ALARM CONTROL PANEL

NAC EXPANDER BUILT IN

SYNCHRONIZATION

FIRE ALARM ANNUNCIATOR PANEL

ADDRESSABLE PULL STATION

PHOTOELECTRIC SMOKE DETECTOR

WATERFLOW SWITCH FBO W/

MONITOR MODULE

TAMPER SWITCH FBO W/ MONITOR

MULTI-CNDL WALL HORN/STROBE

15/30/75/110cd

WEATHER PROOF HORN

FIRE SPRINKLER RISER

JUNCTION BOX

MANUFACTURE

FCI

FCI

FCI

FCI

POTTER

FCI

SYSTEM

SENSOR

CSFM. NO.

7300-1703:0167

7165-1703:1025

7150-1703:0109

7272-1703:0121

7770-0328:1001

7300-1703:0102

7125-1653:0188

GAMEWELLFCI 7165-1703:0105

MOUNTING

WALL

WALL 60" **Q**

WALL

ON UNIT

WALL @ +80" AFF

TO +96" AFF

7135-1653:11879 | WALL @ +90" AFF

BACKBOX

PROVIDED

4"S x 1-1/2"D BOX

4"S x 1-1/2"D BOX

W/ADB-FL BASE

4"S x 1-1/2"D BOX

WPBB-R

SYMBOL | MODEL. NO

7100-1

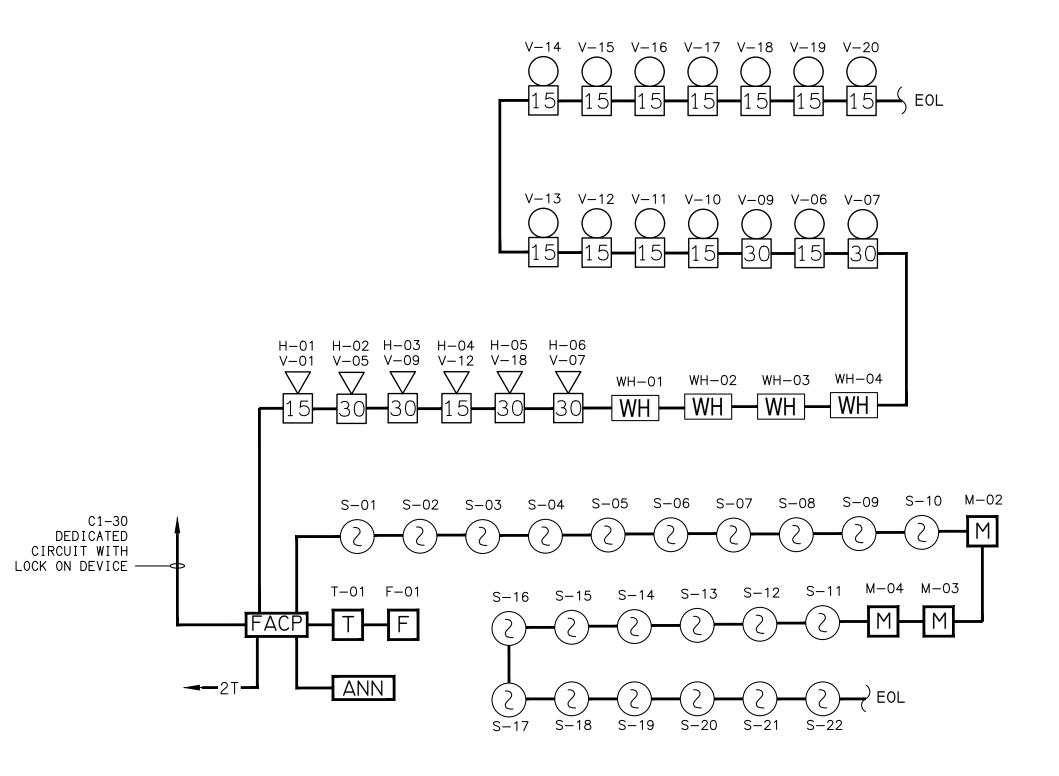
LCD-7100

MS-7AF

ASD-PL2F

VSR

HRK



COMPLETE BUILDING FIRE ALARM SYSTEM

x 1.2

USA Canada Derating factor

7 Amp Hours

Battery Selection

Secondary Load Requirements 5.82

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

RISER DIAGRAM - E5.01

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SCALE: NONE

OF

09-03-2017

AS SHOWN

C16 - 006

00

SHEETS

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353 SAN JON ROAD VENTURA, CA 93001 805 / 650 . 9590 PH 805 / 650 . 9589 FX

REVISIONS

DESIGN

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CALIFORNIA C12050

CONSULTING ELECTRICAL ENGINEERS 3251 CORTE MALPASO, #511 CAMARILLO, CA 93012-8094 (805) 389-6520 FAX (805) 389-6519 Web Site http://www.lucciland.com

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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:

CIVIL ENGINEER:

STRUCTURAL ENGINEER: XXXX

ELECTRICAL ENGINEER:

LUCCI & ASSOCIATES KEN LUCCI 805/389.6520

MECHANICAL ENGINEER:

LANDSCAPE ARCHITECT:

WATER SYSTEM / FIRE PROTECTION SYSTEM:

FIRE ALARM SYSTEM -BUILDING C EXISTING

PROJECT AREA

KEY MAP

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

AS SHOWN

C16 - 006 PROJECT 00

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1"C-3#12 TO WH-04 -

T-01 F-01

15 V-02

S-06

S-05

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

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SHEET NUMBER OF SHEETS L.A.I.# 16247 PAPER SIZE 42"x30"

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.

M - 02

FIRE ALARM SYSTEM - EXISTING CONDITION BUILDING C
SCALE: 1/4"=1'-0"

WIRE LEGEND

SHEET NOTES:

1. VERIFY LOCATION OF ALL DEVICES ON PROJECT

D Twisted Unsheilded Pair (16/2 FPLP) SLC. N Pair 14awg Stranded (THHN) NAC.

P Pair 14awg Stranded (THHN) 24VDC Power

Twisted Unsheilded (18/4 COMM. CBL)

CANDELA RATING FOR HORN/STROBE OR STROBE

COMPLETE BUILDING FIRE ALARM SYSTEM

CONDITION

SHEET NAME

09-03-2017

E5.02

VENTURA COLLEGE

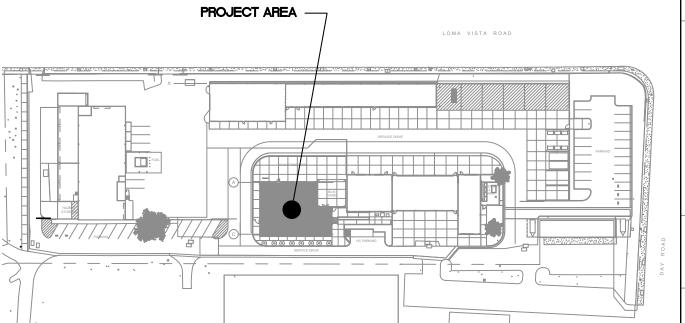
PROJECT DIRECTORY

SOILS ENGINEER / SEPTIC SYSTEM:

CIVIL ENGINEER:

STRUCTURAL ENGINEER:

ELECTRICAL ENGINEER:



D Twisted Unsheilded Pair (16/2 FPLP) SLC. | CLASS B

P Pair 14awg Stranded (THHN) 24VDC Power | CLASS B

CANDELA RATING FOR HORN/STROBE OR STROBE

N | Pair 14awg Stranded (THHN) NAC.

Twisted Unsheilded (18/4 COMM. CBL)

KEY MAP

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

ROY E COLBERT ARCHITECTURE PLANNING

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REVISIONS

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4667 Telegraph Road Ventura, CA 93003

M&O: MAINTENANCE & OPERATIONS ADMIN RENOVATION

CLASS B

COMPLETE BUILDING

FIRE ALARM SYSTEM

XXXX

805/389.6520 MECHANICAL ENGINEER:

LUCCI & ASSOCIATES

KEN LUCCI

LANDSCAPE ARCHITECT:

WATER SYSTEM / FIRE PROTECTION SYSTEM:

FIRE ALARM SYSTEM -BUILDING C NEW WORK

SHEET NAME

09-03-2017

C16 - 006

AS SHOWN

E5.05 00 SHEET NUMBER OF SHEETS

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000

000

SHEET NOTES:

1. VERIFY LOCATION OF ALL DEVICES ON PROJECT

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.

5. RUN COMMUNICATION CABLING IN CABLE TRAY TO

6. UNIQUELY LABEL BOTH ENDS OF ALL CABLING.

WIRE LEGEND

4. MAXIMUM 180 DEGREE OF BEND BETWEEN PULL POINTS.

MAXIMUM EXTENT POSSIBLE. WHERE CABLING IS NOT IN CABLE TRAY, CABLE SHALL BE IN CONDUIT.

- (EXISTING) 1"C-3#12

EXISTING 1"C-3#12

TO WH-04

T-01 F-01 (X)

SHWR

ADD 2 NEW PHONE

LINES FOR F.A. DIAL

UP TO MONITORING

CONFERENCE

100

H-04 15 V-12

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

CORRIDOR

/ M-04

RECEPTION

27" NETW **S K 18**MONITOR @ 66"

27" NETWORK

MONITOR @66"

LNTWISPROITE H

CHECK-IN

OFFICE

108

FIRE ALARM SYSTEM - BUILDING C NEW WORK

S-02

LUNCH ROOM

WALL MOUNTED

TV (66" HT data)

STATION

CORRIDOR

SERVER RM

123

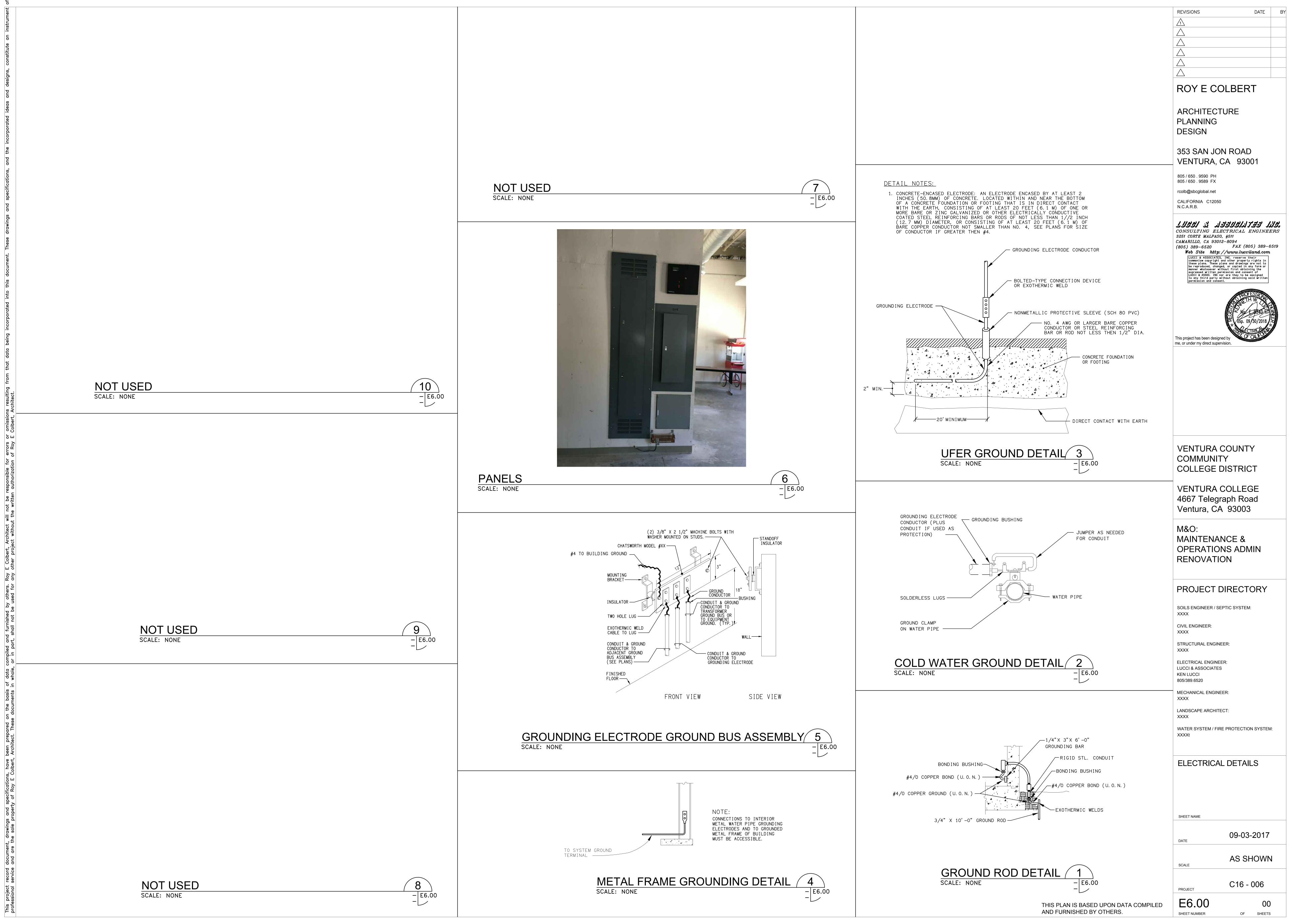
S-04

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

SHELVES S-22

S-11

LOCKER



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MECHANICAL NOTES

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.

- 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.
- 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.
- 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.
- 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".
- 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.

- COORDINATION: MECHANICAL CONTRACTOR SHALL COORDINATE WORK WITH THE DISTRICT'S PROJECT MANAGER AND ALL RELATED TRADES.
- 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.
- 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.

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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
- TRANSFER GRILLE, TITUS, MODEL 300FL WHITE SURFACE MOUNT, SIZE ON PLANS.
- TRANSFER GRILLE, TITUS PAR, PERFORATED FACE, WHITE PLASTER MOUNT
- SR SUPPLY REGISTER. TITUS MODEL

EQUIPMENT SCHEDULE

- 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.
- 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.

SY	MBOL LEGEND	REVISIONS / DESCRIPTION	DATE	BY		
SEE MECH	H./PLUMB. SCH. FOR DESCRIPTIONS					
		<u> </u>				
	RETURN AIR REGISTER	<u>3</u> <u>4</u>				
	CEILING DIFFUSER					
8	EXHAUST FAN	COPYRIGHT ROY E COLBERT ARCHITECT 2017 ALL RIGHTS RESERVED THIS PROJECT RECORD DOCUMENT, DRAWINGS, AND/OR SPECIFICATIONS, HAVE BEEN PREPARED ON THE BASIS OF DATA COMPILED AND FURNISHED BY OTHERS. ROY E. COLBERT ARCHITECT SHALL NOT BE RESPONSIBLE FOR ERRORS AND OR OMISSIONS RESULTING FROM THAT DATA BEING INCORPORATED INTO THIS DOCUMENT. THESE DRAWINGS AND SPECIFICATIONS, AND THE INCORPORATED IDEAS AND DESIGNS, CONSTITUTE AN INSTRUMENT OF PROFESSIONAL SERVICE AND ARE THE SOLE PROPERTY OF ROY E. COLBERT, ARCHITECT. THESE DOCUMENTS, IN WHOLE OR IN PART, SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE DIRECT WRITTEN AUTHORIZATION OF ROY E. COLBERT, ARCHITECT.				
	VOLUME DAMPER					
T	THERMOSTAT					
	RETURN AIR PLENUM (LINED)					
	SUPPLY AIR PLENUM (LINED)					
	FIRE & SMOKE DAMPER					
EQUIPMENT TAG SEE MECH. SCHEDULE		ROY E COLBERT				
	ROUND DUCTWORK	ARCHITECTURE PLANNING DESIGN				
	RECTANGULAR DUCTWORK					
AB	BREVIATIONS					
BREV ABB	REVIATIONS					

ABOVE 1997 E. MAIN STREET ABOVE FINISHED FLOOR AIR HANDLING UNIT VENTURA. CA 93001 **APPROXIMATILY** 805 / 650 . 9590 PH BELOW 805 / 650 . 9589 FX BELOW FINISHED FLOOR BOTTOM rcolb@sbcglobal.net BUILDING CALIFORNIA C12050 CEILING N.C.A.R.B. **CEILING DIFFUSER** CENTERLINE CHILLED WATER RETURN

ROY E. COLBERT M030626 ☆ NO. C12050 Ren. 6/30/18 RENEWS

DRAWING DWG EACH EΑ **ELECTRIC** ELEC EL | ELEV **ELEVATION** EQ | EQUIP **EQUIPMENT** EXH **EXHAUST** (E) **EXISTING**

CL

DIA

DS

ESP FIN FINISHED FLR **FLOOR**

FR BLW **GALLONS PER MINUTE** GPM GALV GALVANIZED GSM

GDW **GYPSUM DRYWALL** HP HORSE POWER HD HOT DIPPED GALVANIZED HWR HWS MAX MAXIMUM

MTL MINIMUM MIN (N) NEW OC ON CENTER POC POINT OF CONNECTION POD POINT OF DISCONNECTION PSI

RW RAG RETURN AIR GRILLE RAR RETURN AIR REGISTER RD ROOF DRAIN RO **ROOF OVERFLOW** SHT SHEET

SMS SOV SHUT-OFF VALVE SR SIDEWALL REGISTER SD SMOKE DETECTOR SPEC **SPECIFICATIONS** STL STEEL

UNDR UNDER UGND UNDERGROUND VAV VARIABLE AIR VOLUME BOX VFD VARIABLE FREQUENCY DRIVE VTR VENT TO ROOF **VOLUME DAMPER (LOCKING)** VD WCO WALL CLEAN-OUT WC WATER COLUMN

AFF APPROX BLW BFF BOT | BTM BLDG CLG CD CHR CHS CHILLED WATER SUPPLY CONC CONCRETE COND CONDENSATE CONT CONTINUED CFM **CUBIC FEET PER MINUTE** DIAMETER DSA DIVISION OF THE STATE ARCHITECT DOWN **DOWN SPOUT** EXTERNAL STATIC PRESSURE FRM FROM FROM BELOW GALVANIZED STEEL METAL GAS HOT WATER RETURN (HYDRONIC) HOT WATER SUPPLY (HYDRONIC) METAL POUNDS PER SQUARE INCH RAIN WATER SHEET METAL SCREW (TYP) **TYPICAL**

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** 71 Day Road Ventura, CA 93003

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

MECHANICAL ENGINEER: AE GROUP MECHANICAL ENGINEERS, INC Hugh McTernan 838 East Front Street Ventura, CA 93001 (805) 653-1722

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

AE Group Mechanical Engineers, Inc. 838 East Front Street Ventura, California 93001 (805) 653-1722 FAX: (805) 653-7260

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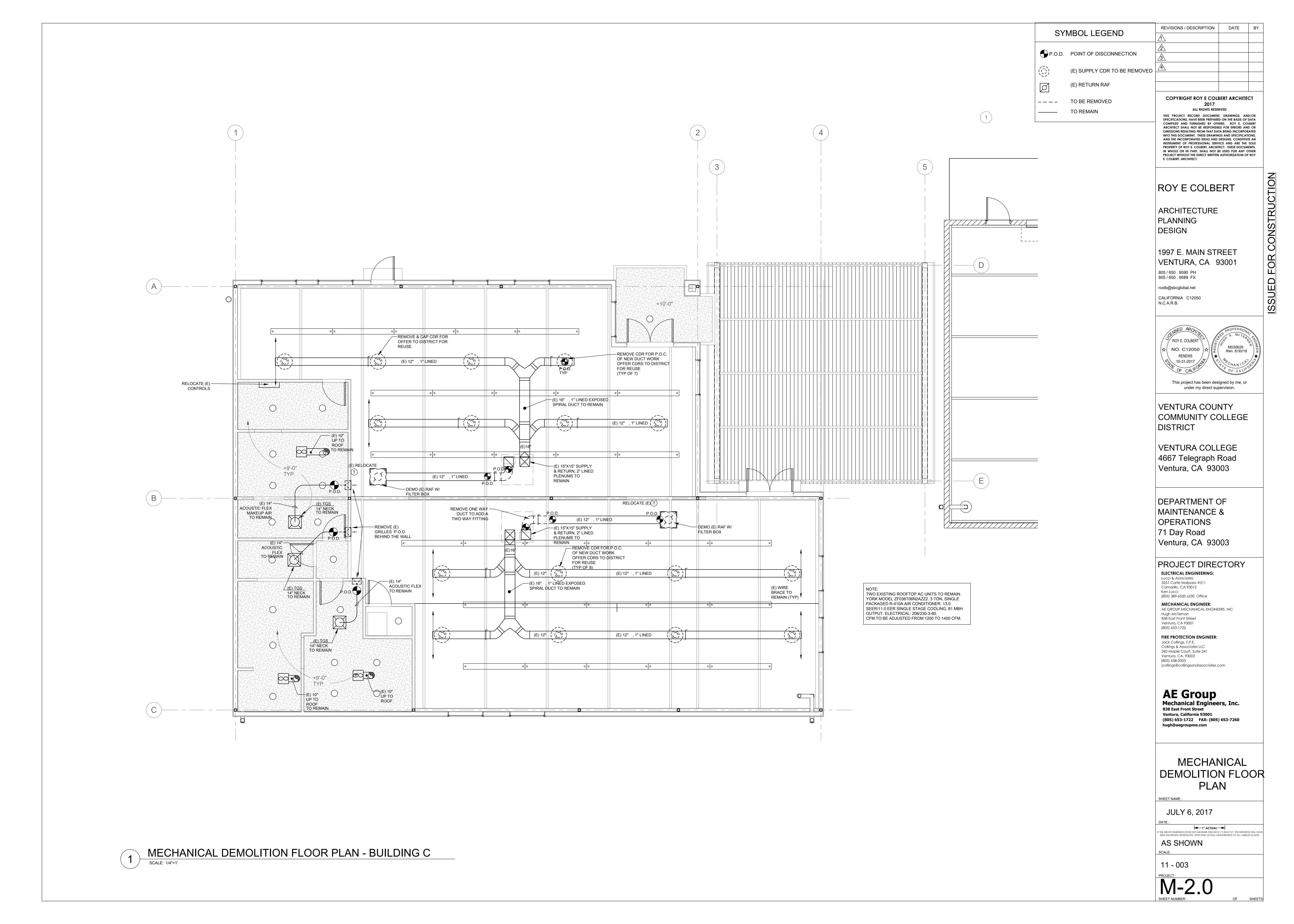
MECHANICAL NOTES & **SCHEDULES**

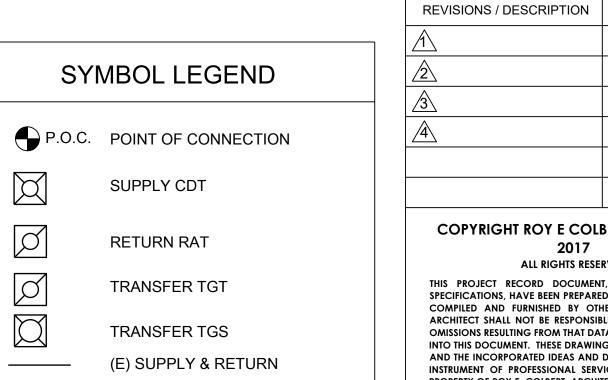
■—1" ACTUAL——

JULY 6, 2017

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

11 - 003





(N) SUPPLY & RETURN

— RL— REFRIGERANT LINESET

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ROY E COLBERT

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rcolb@sbcglobal.net CALIFORNIA C12050 N.C.A.R.B.

805 / 650 . 9589 FX

M030626 |☆| NO. C12050 |☆|| (⁹) 10-31-2017

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MECHANICAL FLOOR PLAN -BUILDING C

JULY 6, 2017

AS SHOWN

11 - 003

MECHANICAL FLOOR PLAN - BUILDING C

REVISIONS / DESCRIPTION

E. COLBERT, ARCHITECT.

ARCHITECTURE

1997 E. MAIN STREET

VENTURA, CA 93001

PLANNING

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VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

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FIRE PROTECTION ENGINEER: Jack Collings, F.P.E. Collings & Associates LLC 260 Maple Court, Suite 241 Ventura, CA. 93003

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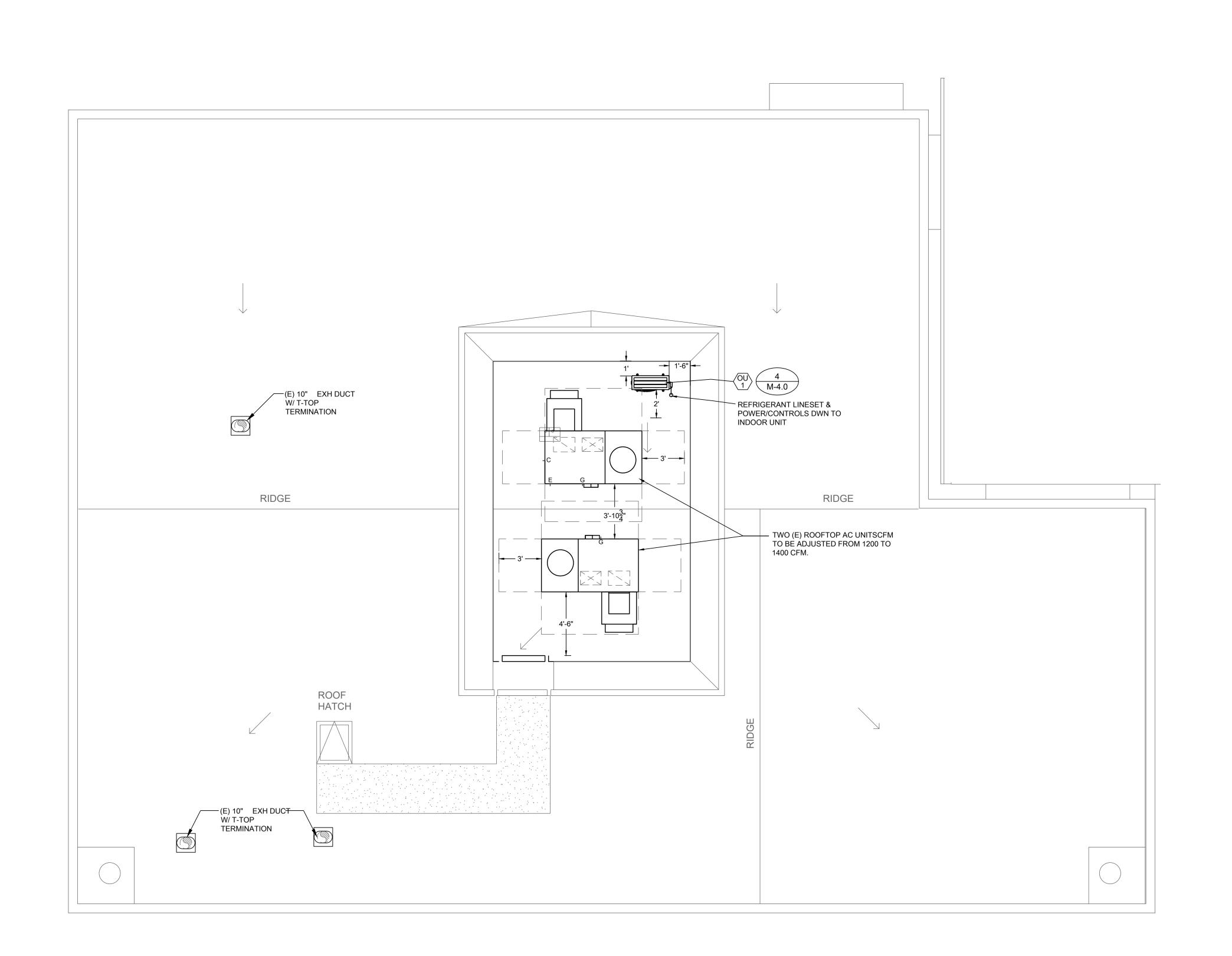
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Mechanical Engineers, Inc.
838 East Front Street Ventura, California 93001 (805) 653-1722 FAX: (805) 653-7260 hugh@aegroupme.com

> **MECHANICAL** ROOF PLAN -**BUILDING C**

JULY 6, 2017

1" ACTUAL **AS SHOWN**

11 - 003



MECHANICAL ROOF PLAN - BUILDING C

CONSTRUCTION

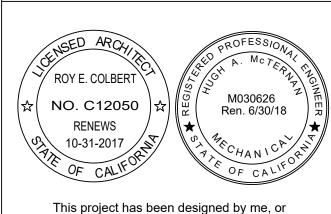
DATE

REVISIONS / DESCRIPTION

1997 E. MAIN STREET VENTURA, CA 93001

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



under my direct supervision.

VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

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AE Group

Mechanical Engineers, Inc.

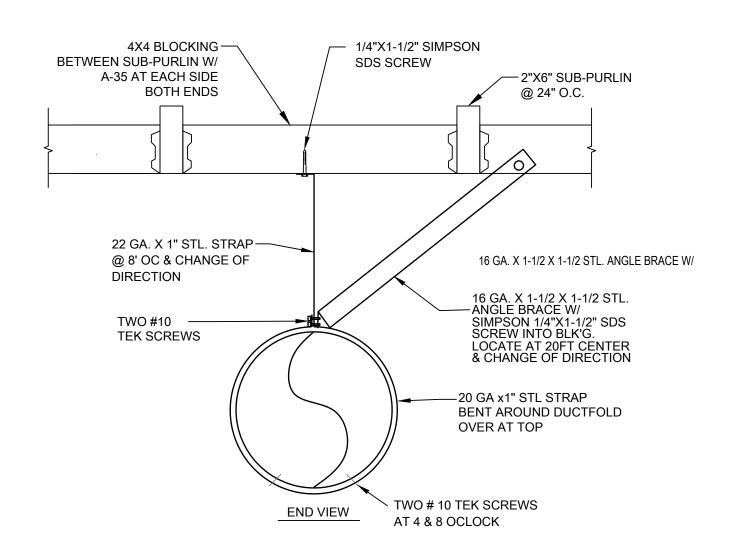
838 East Front Street Ventura, California 93001 (805) 653-1722 FAX: (805) 653-7260 hugh@aegroupme.com

> MECHANICAL DETAILS

JULY 6, 2017

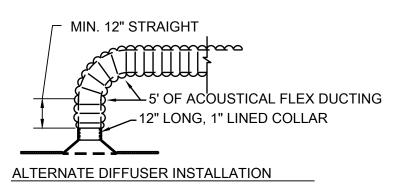
1" ACTUAL IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL HAY BEEN ENLARGED OR REDUCED, AFFECTING ACTUAL MEASUREMENT OF ALL LABELED SCALES. **AS SHOWN**

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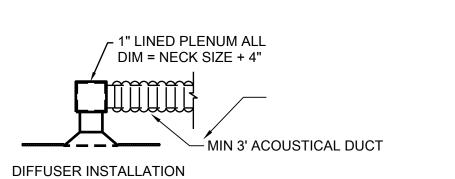


TYPICAL DUCT SUPPORT

M-4.0

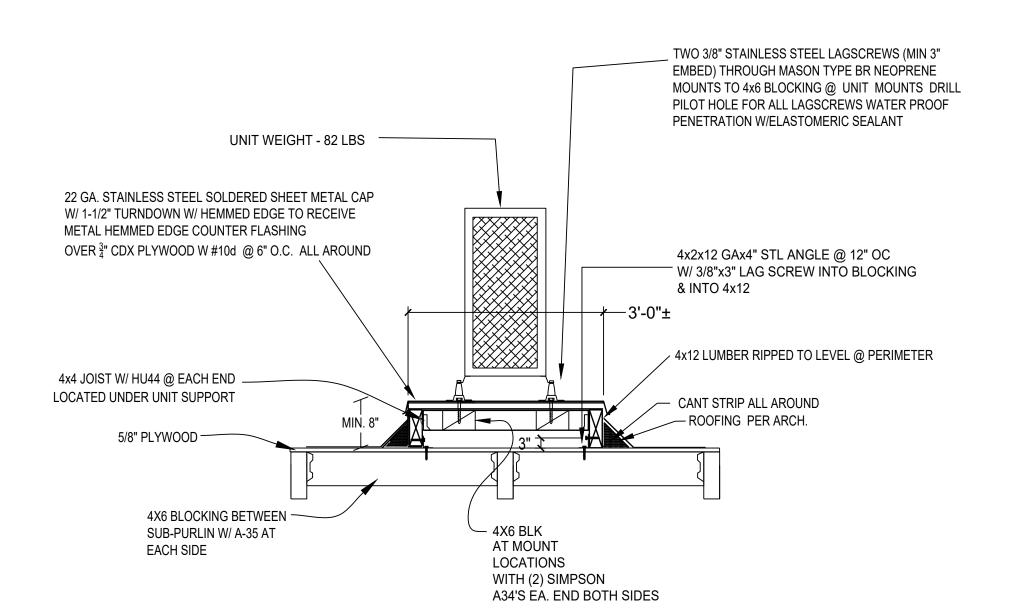


M-4.0



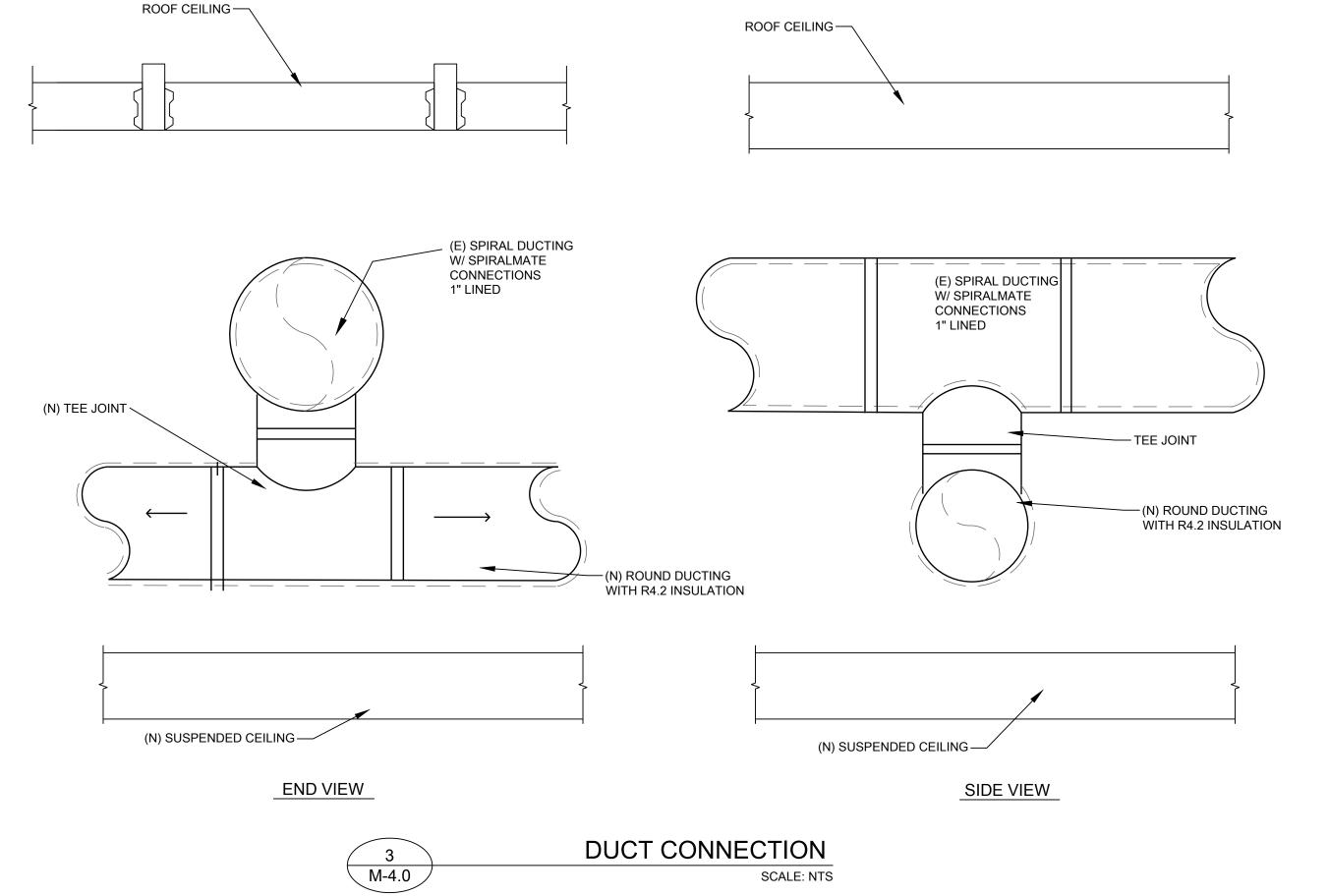


DIFFUSER INSTALLATION DETAIL SCALE: NTS



SCALE: NTS





- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- TRENCHING: SEE CIVIL & SOILS ENGINEERING REQUIREMENTS FOR TRENCHING
- 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.
- 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.
- 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
- 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.
- SEISMIC ANCHORING: ANCHOR ALL EQUIPMENT INCLUDING WATER HEATERS TO RESIST SEISMIC INDUCED MOTION WITH APPROVED ANCHORING DEVICES PER DSA, CPC & CBC REQUIREMENTS.
- 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.
- CLEANUP: CONTRACTOR SHALL THOROUGHLY CLEAN ENTIRE JOBSITE EVERY DAY OF ALL DEBRIS ASSOCIATED WITH PLUMBING INSTALLATION.
- COORDINATION: CONTRACTOR SHALL COORDINATE WITH COLLEGE'S PROJECT MANAGER AND ALL RELATED TRADES.
- 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.

- ALL VALVES SHALL BE COMPLIANT WITH AB1953. CALIFORNIA NO LEAD LAW
- 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.
- UNDERGROUND WASTE AND WATER WITHIN 10 FEET OF BUILDING SHALL BE INSTALLED IN CONCRETE TRENCH PER PLAN AND DETAILS IN THESE DRAWINGS
- 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

∕ WH `

3/4"

1-1/2

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 CONTR

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.

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

_VE SET
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N

REVISIONS / DESCRIPTION	DATE	BY
A		
<u>^</u>		
<u>3</u>		
<u>4</u>		

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ROY E COLBERT

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VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

VENTURA COLLEGE 4667 Telegraph Road Ventura, CA 93003

DEPARTMENT OF MAINTENANCE & **OPERATIONS** 71 Day Road Ventura, CA 93003

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3251 Corte Malpaso #511 Camarillo, CA 93012 (805) 389-6520 x230 Office

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(805) 653-1722 FIRE PROTECTION ENGINEER: Jack Collings, F.P.E.

Ventura, CA 93001

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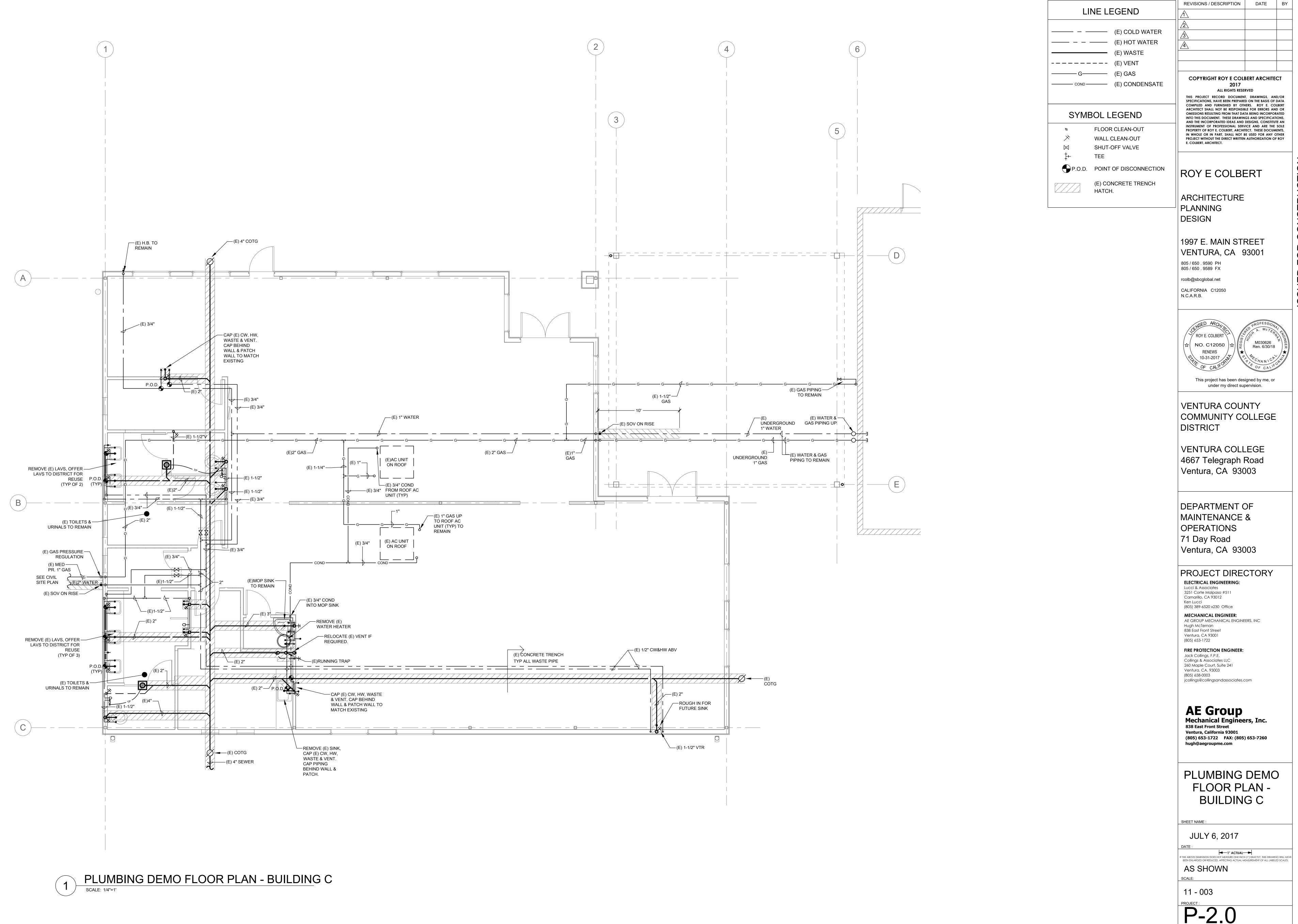
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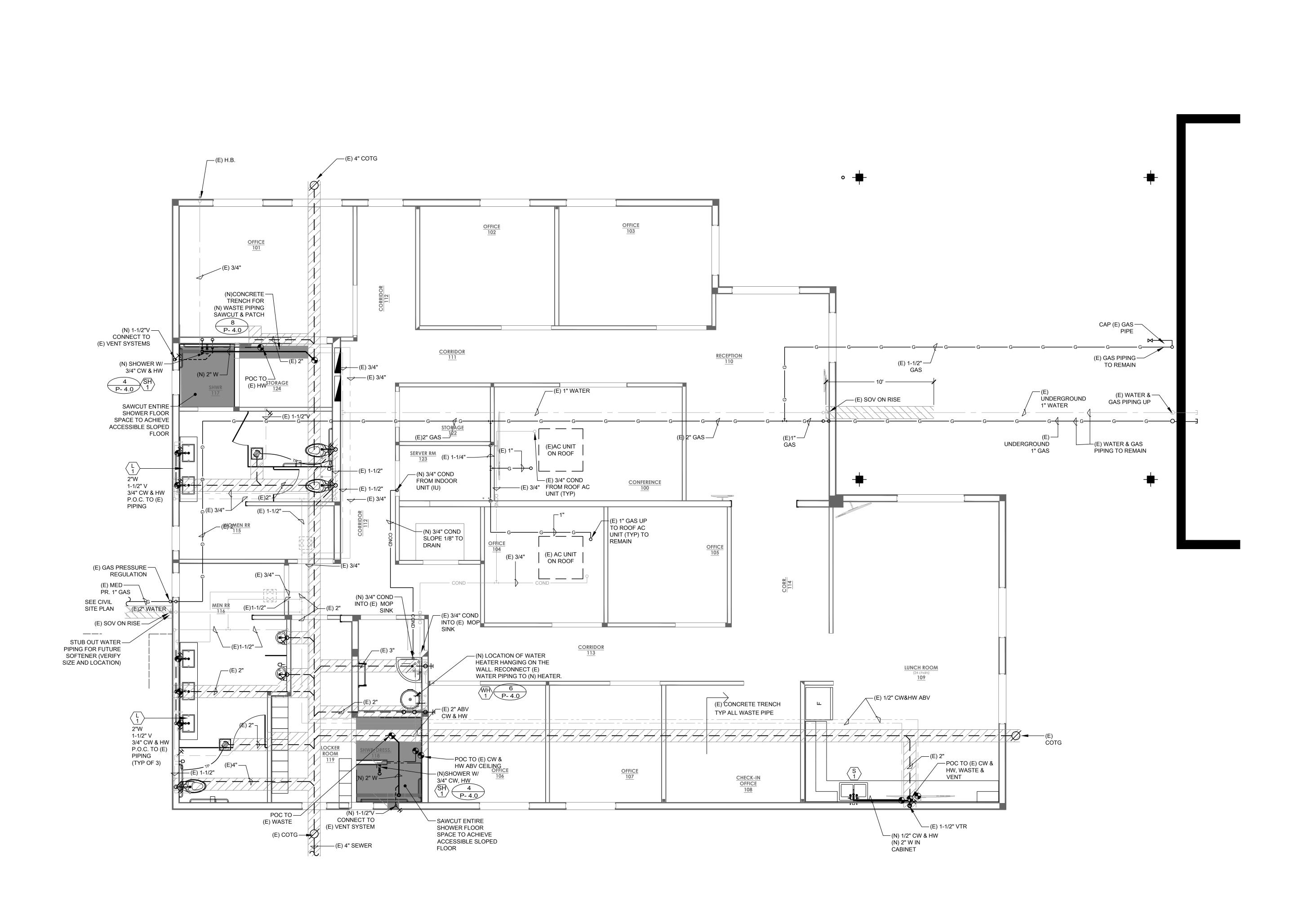
PLUMBING NOTES &

JULY 6, 2017

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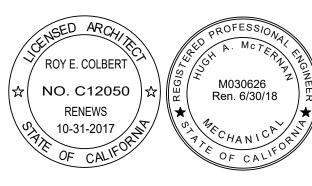
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Mechanical Engineers, Inc.
838 East Front Street Ventura, California 93001 (805) 653-1722 FAX: (805) 653-7260

PLUMBING FLOOR PLAN -BUILDING C

JULY 6, 2017

1" ACTUAL AS SHOWN

11 - 003

1 PLUMBING FLOOR PLAN - BUILDING C
SCALE: 1/4"=1"

CONSTRUCTIO

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10-31-2017

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PLUMBING DETAILS

IIII V O OO

JULY 6, 2017

DATE:

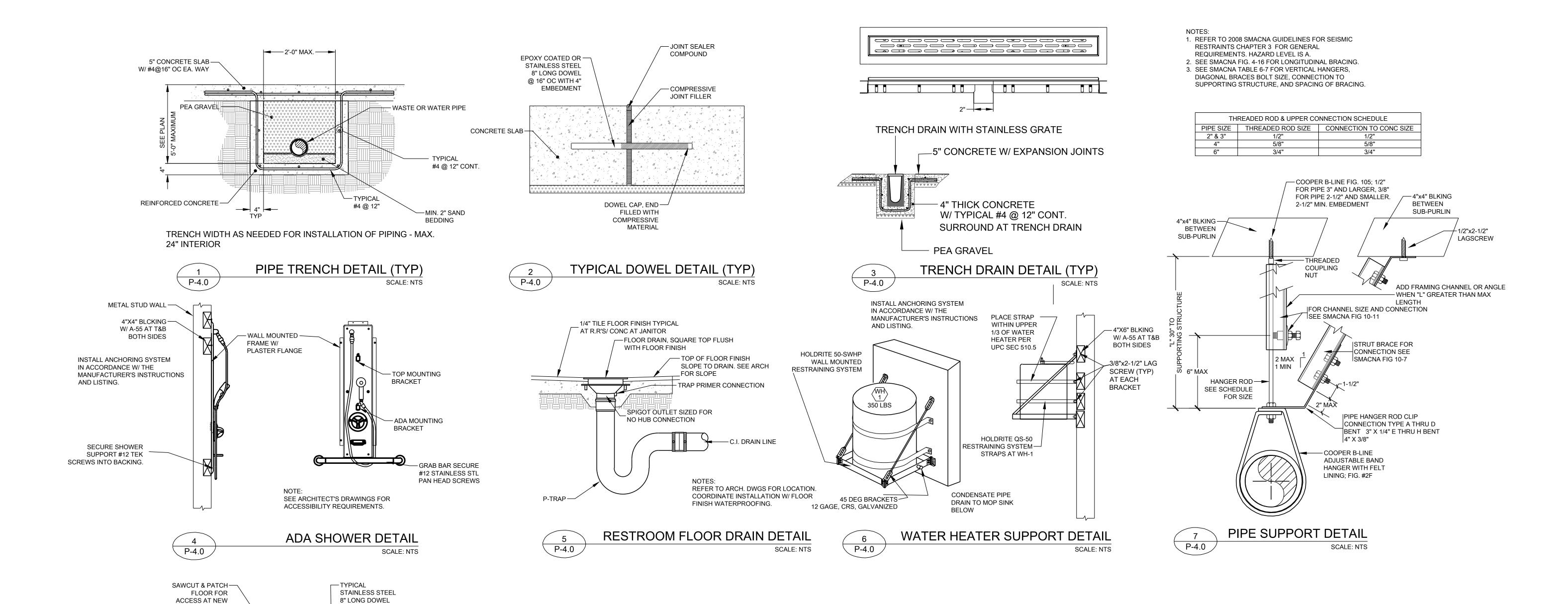
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AS SHOWN

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P-4.0



CONNECTION

(E) MIN. 2" SAND -BEDDING

----| 4" |----

(E) PEA GRAVEL -

(E) REINFORCED -

24" INTERIOR

 $\left(\begin{array}{c} 8 \\ P-4.0 \end{array}\right)$

CONCRETE

(E) 5" CONCRETE SLAB —

W/ #4 @16" OC

@ 16" OC WITH 4"

PEA GRAVEL —

—(E) TYPICAL

#4 @ 12"

NEW PIPE TRENCH CONNECTION DETAIL

EMBEDMENT

2'-0" MAX.

TRENCH WIDTH AS NEEDED FOR INSTALLATION OF PIPING - MAX.

/—(N) 5" CONCRETE SLAB

└─(N) MIN. 2" SAND BEDDING

SCALE: NTS

-(N) TYPICAL

#4 @ 16" OC /

-(N) SHOWER

→ 4" **←**

_(N) TYPICAL

#4 @ 12" CONT.

TRENCH DRAIN

SEE DETAIL 3/P-4.0

/ #4 @ 12"

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EXISTING UPRIGHT SPRINKLERS ABOVE CEILING THAT PROTECT THE ATTIC TO REMAIN, NO MODIFICATION REQUIRED.

4. SYSTEM DESIGN AND INSTALLATION WILL BE

NEW T.I. RENOVATION IS A LIGHT HAZARD OCCUPANCY.

FIRE SPRINKLER NOTES:

2. IT IS THE RESPONSIBILITY OF THE ON-SITE SUPERVISOR TO MAINTAIN THE INTEGRITY OF THE SPRINKLER SYSTEM.

PER THE REQUIREMENT OF NFPA 13, 2016 EDITION,

THE SPRINKLER SYSTEM.

FOR ALL INSPECTIONS AND TEST.

AND DEVICES.

THE JOB SITE.

EXPOSURE.

THREADED FITTINGS.

1. THIS FIRE SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED

3. THE SPRINKLER CONTRACTOR WILL PROVIDE THE OWNER WITH THE

4. ONLY NEW SPRINKLERS SHALL BE EMPLOYED IN THE INSTALLATION OF

5. THE SYSTEM SHALL ONLY EMPLOY THE USE OF U.L. LISTED MATERIALS

6. A SET OF APPROVED PLANS SHALL BE MAINTAINED AT ALL TIMES ON

7. AN APPOINTMENT SHALL BE MADE A MINIMUM OF TWO (2) WORKING

8. ANY PORTION OF THIS SPRINKLER SYSTEM WHICH IS EXPOSED TO

9. ALL LOW POINTS IN THE SYSTEM TO BE PROVIDED WITH AUXILIARY

10. FERROUS PIPING: WELDED OR SEAMLESS STEEL, ANSI/ASTM A-135

II. PIPES 2 INCH OR SMALLER TO BE SCHEDULE 40 STEEL PIPE WITH

12. PIPES 21/2 TO 8 INCH TO BE SCHEDULE #10 STEEL PIPE WITH GRVD

13. ALL THREADED FITTINGS TO BE CLASS 125 C.I. AND ALL GROOVED

15. SPRINKLER HEADS AND PIPING LOCATIONS MAY VARY FROM ROOM TO

INSTALL NEW DROP PENDENT SPRINKLERS TO ACCOMMODATE

HYDRAULIC CALCULATIONS IS NOT REQUIRED, BASED ON THE

NEW CEILING PLAN. NEW PENDENTS TO BE PIPED FROM EXISTING

16. ROUGH AND FINAL INSPECTION ARE REQUIRED ON ALL SYSTEMS.

WITH WELDING PERFORMED BY A CERTIFIED WELDER.

FITTINGS AND COUPLING TO BE VICTAULIC OR EQUAL.

14. ALL PIPE DIMENSIONS ARE CENTER TO CENTER.

ROOM DUE TO FIELD CONDITIONS.

SCOPE OF WORK:

SPRIG-UP UPRIGHT OR MECH. TEE'S.

FREEZING SHALL BE ADEQUATELY PROTECTED AGAINST THIS

DAYS IN ADVANCE WITH THE APPROPRIATE FIRE PREVENTION OFFICE

NECESSARY INSTRUCTION MANUALS FOR THE UPKEEP OF THE

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VENTURA COUNTY

VENTURA COLLEGE

4667 Telegraph Road

Ventura, CA 93003

DISTRICT

COMMUNITY COLLEGE

OVERHEAD SYSTEM IS DESIGNED FOR ORDINARY HAZARD 2.

ACCORDANCE TO THE PROVISION OF THE NFPA 13, 2016 EDITION AND THE REQUIREMENT OF CITY OF VENTURA FIRE DEPARTMENT.

HANGER NOTES 3/8" A.T.R. ROD SHALL BE USED ON PIPES I TO 4 INCHES. ½"

THE MAX. UNSUPPORTED LENGTH FROM THE END OF A LINE TO HANGER SHALL BE 36" FOR I", 48" FOR I¼, 60" FOR I½" PIPE AND ABOVE.

ATR FOR 5, 6 & 8 INCHES PIPE, AND 5/8" ATR FOR 10 & 12

THE MAXIMUM HANGER SPACING SHALL BE 12 FT. FOR I" TO I1/4" PIPE, I5 FT. FOR I½" 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).

ALL HANGERS SHALL BE IN ACCORDANCE WITH NFPA-13, 2016 EDITION. TABLE 9.2.2.I(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 I'-0".

LEGEND & SYMBOLS DEPARTMENT OF MAINTENANCE & OS&Y VALVE OPERATIONS 71 Day Road

Ken Lucci

A/E GROUP

Tim Moon

TOTAL: 38

Hugh McTernan

838 East Front Street Ventura, CA 93001

Phone 805.653.1722

(805) 389-6520 x230 Office

HVAC MECHANICAL / PLMB ENGINEER:

—oo | PIPE UP OR DOWN Ventura, CA 93003 ---- NEW BRANCH LINE/ARMOVER ET | FLUSH WALL FDC — — EXISTING BRANCH LINE PROJECT DIRECTORY —— EXISTING SPRINKLER PIPE POST INDICATOR VALVE + HANGER LOCATION **ELECTRICAL ENGINEERING:** ucci & Associates 出 ALARM BELL 3251 Corte Malpaso #511 Camarillo, CA 93012

FIRE HYDRANT # HYDRAULIC NODE

NEW SPRINKLER PENDENT

SPRINKLER HEAD INFO .:

SYM.	MANUFACT.	SIN #	NPT	К	TEMP	DESCRIPTION	QTY.
•	RELIABLE	RAI4I4	1/2	5.6	155°	QR RECESSED	38
						SPRINKLER PENDENT	

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

NOTE TO CONTRACTOR:

ALL PIPE DIMENSIONS ARE CENTER TO CENTER.

CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL POSSIBLY INTERFERING PIPING, STRUCTURAL STEEL AND MISCELLANEOUS ITEMS BEFORE INSTALLATION OF SPRINKLER SYSTEMS TO AVOID INTERFERENCE.

PROVIDE EXTENDED ESCUTCHEON WHEN SURFACE MOUNTED FIXTURES PLACE ON THE CEILING CREATING AN OBSTRUCTION TO FIRE SPRINKLERS COVERAGE, SHALL COMPLY WITH NFPA 13 REQUIREMENTS.

> Phone: (805) 658-0003 Fax: (805) 658-0044 www.collingsandassociates.com

BUILDING C FIRE SPRINKLER T.I. PLAN

ADMINISTRATION

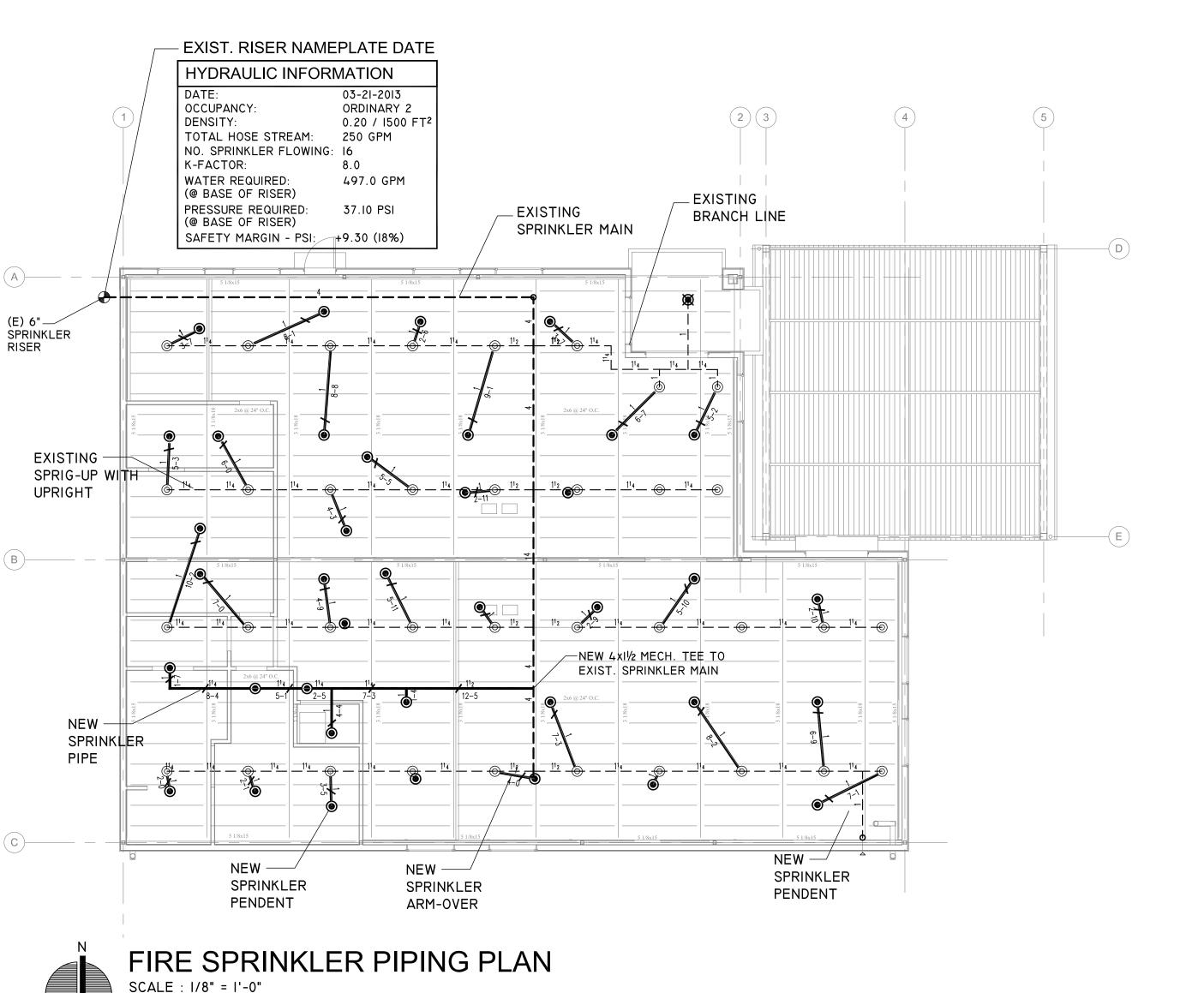
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23 JUNE 2017

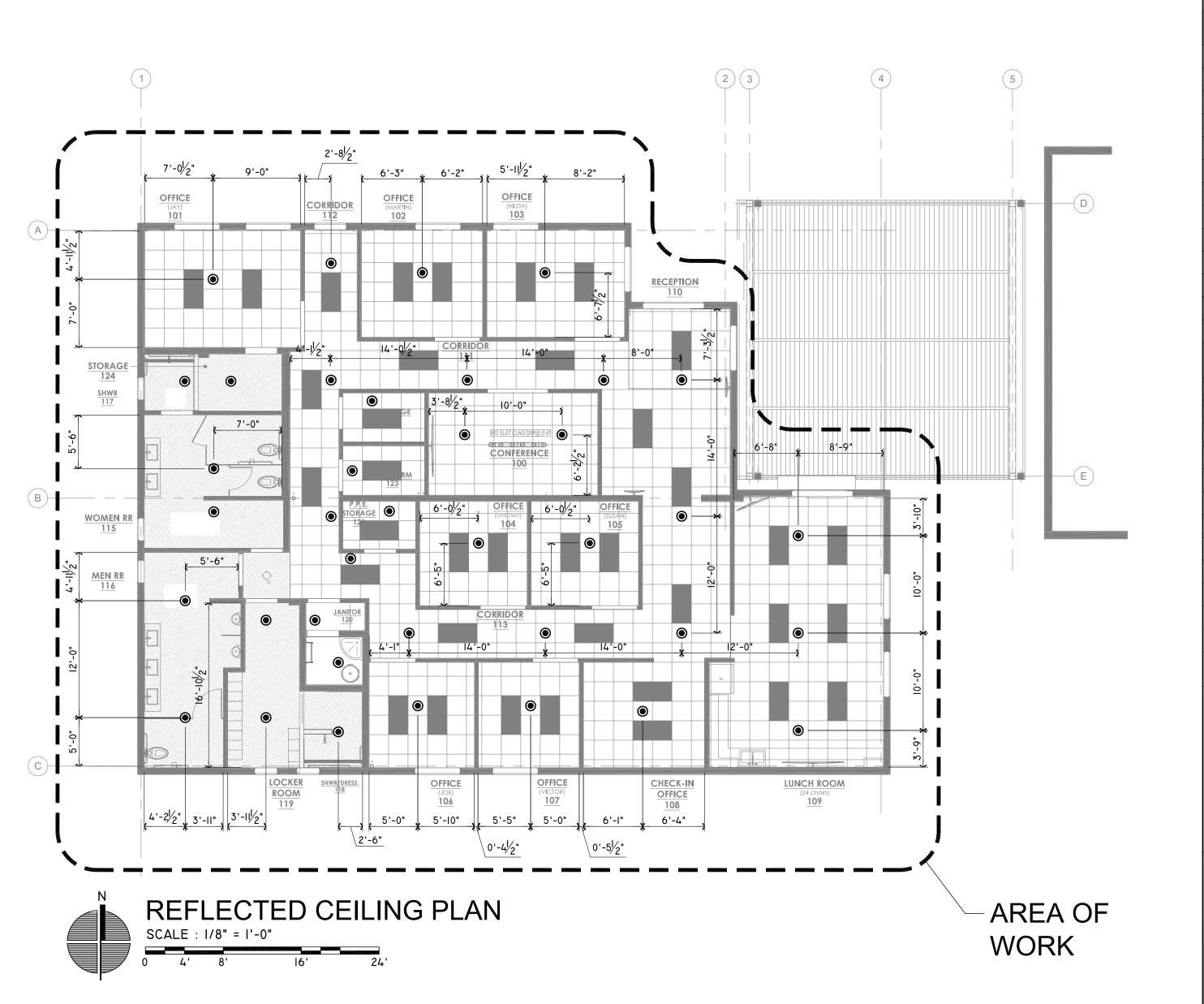
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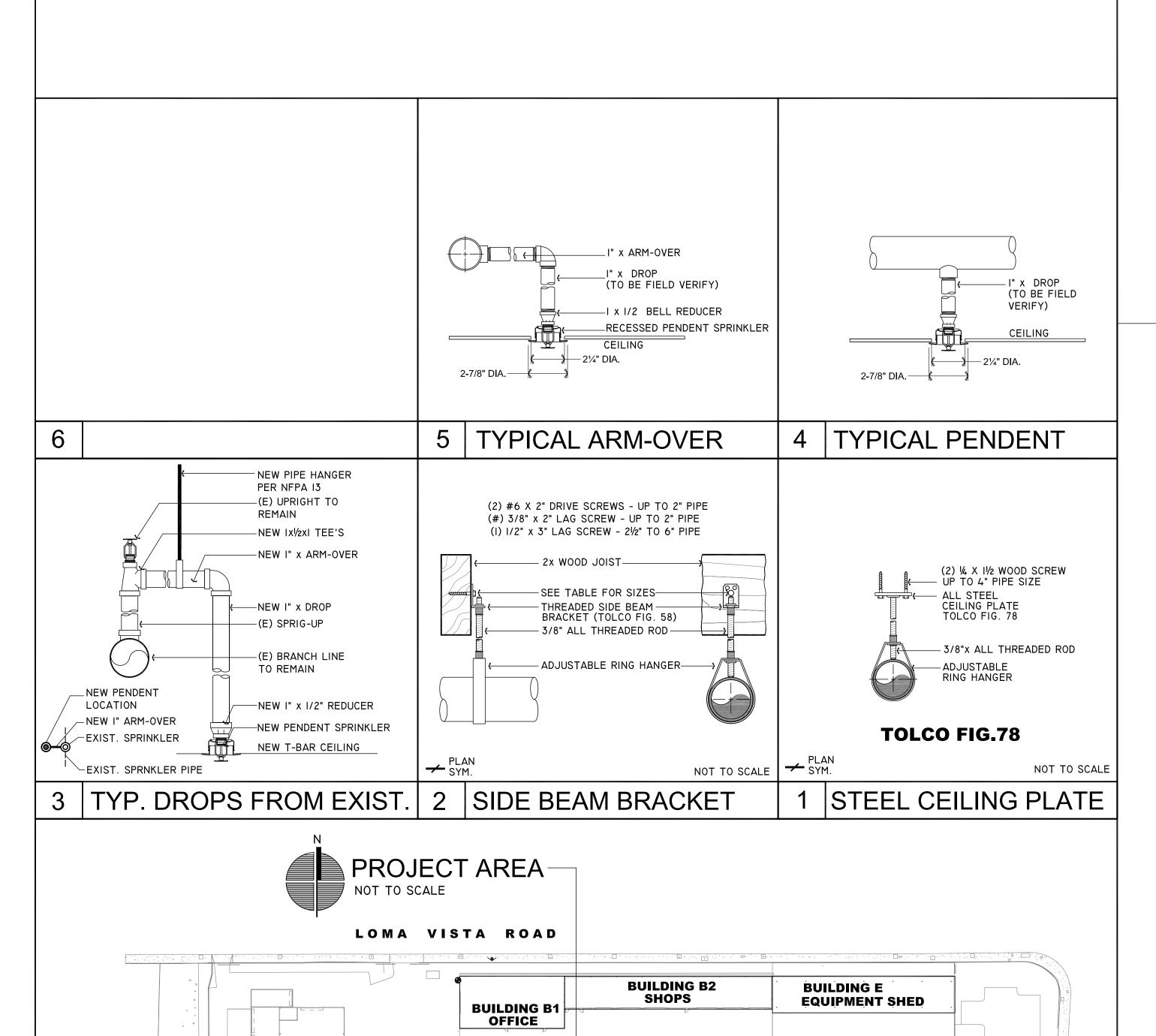
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FP-1.0 SHEET NUMBER: 1 OF 1









BLDG. C STUDIO

CLASSROOMS

WASTE STORAGE

BUILDING D

GARAGE /

STORAGE