

# PALOMAR COLLEGE

## ANITA & STAN MAAG

### FOOD & NUTRITION CENTER

1140 WEST MISSION ROAD  
SAN MARCOS, CA 92069

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

#### PROJECT TEAM

**OWNER**  
**PALOMAR COLLEGE**  
1140 W. MISSION RD.,  
SAN MARCOS, CA 92069  
PHONE (780) 744-1150  
CONTACT: DENNIS ASTL

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

**MECHANICAL**  
**MA ENGINEERS**  
5160 CARROLL CANYON RD,  
SUITE 200, SAN DIEGO, CA 92121  
PHONE (800)-200-0030  
FAX (800)-200-0037

**PLUMBING**  
**MA ENGINEERS**  
5160 CARROLL CANYON RD,  
SUITE 200, SAN DIEGO, CA 92121  
PHONE (800)-200-0030  
FAX (800)-200-0037

**ELECTRICAL**  
**JOHNSON CONSULTING**  
**ENGINEERS, INC.**  
12875 BROOKPRINTER PLACE,  
SUITE 300, POWAY, CA 92064  
PHONE (619)-479-4030  
FAX (619)-513-0559

#### GENERAL NOTES

- CONSTRUCTION DOCUMENTS DESCRIBE THE PRODUCTS, SYSTEMS, QUANTITIES, CONFIGURATION, AND PERFORMANCE SPECIFICATIONS THAT DELIVER THE OVERALL DESIGN INTENT OF THE PROJECT.
- THE CONSTRUCTION DOCUMENT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY BOTH.
- PERFORMANCE BY THE CONSTRUCTION TEAM SHALL BE CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AS NECESSARY TO DELIVER THE INDICATED RESULTS OF THE DESIGN INTENT.
- VERIFY ALL DIMENSIONS, LOCATIONS OF EXISTING UTILITIES, AND CONDITIONS ON THE JOB SITE PRIOR TO THE START OF WORK OR PORTIONS OF THE WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE ACTUAL FIELD CONDITIONS AND THE CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS ARE INDICATED AS A RESULT OF FIELD OBSERVATIONS, INFORMATION SHOWN ON AVAILABLE DOCUMENTS AND FIELD CONDITIONS AT THE TIME OF PREPARATION.
- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL GOVERNING CODES, ORDINANCES, REGULATIONS AND LAWS.
- THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS AND SCAFFOLDING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
- IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
- DETAILS MARKED TYPICAL SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY NOTED OTHERWISE.
- ENACT ALL MEASURES TO PROTECT AND SAFEGUARD ALL EXISTING ELEMENTS TO REMAIN FROM BEING DAMAGED, REPLACED OR REPAIR EXISTING ELEMENTS DAMAGED BY THE EXECUTION OF THIS CONTRACT TO EQUAL OR BETTER CONDITION.
- PRIOR TO THE START OF WORK THE CONTRACTOR SHALL COORDINATE BETWEEN THE REQUIREMENTS OF ALL DISCIPLINES HEREIN AND BETWEEN THE REQUIREMENTS OF ALL DRAWINGS AND SPECIFICATIONS IN ORDER THAT ALL ITEMS SATISFACTORILY RELATE TO ONE ANOTHER. NOTIFY ARCHITECT IMMEDIATELY REGARDING ANY ITEMS THAT CANNOT BE COORDINATED.
- CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, CONDUIT, ETC. AND TO PREVENT HAZARD TO PERSONNEL AND/OR TO EXISTING UNDERGROUND UTILITIES OR SYSTEMS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
- CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE EXISTING OR NEW STRUCTURAL ELEMENTS SHALL NOT BE STARTED UNTIL THE DETAILS HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT, AND STRUCTURAL ENGINEER OF RECORD.
- WHERE NEW CONSTRUCTION ADJUTS EXISTING FINISHED SURFACES, CONTRACTOR SHALL ALIGN NEW CONSTRUCTION SO THAT NEW FINISHES ARE FLUSH WITH EXISTING, MATCH EXISTING TEXTURES AND COLORS. A CERTIFIED PROJECT INSPECTOR, EMPLOYED BY THE DISTRICT (OWNER) SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, C.C.R. **CLASS 3 INSPECTOR REQUIRED.**
- SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK. (CAC 2013, 4-317(f))
- FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION SHALL COMPLY WITH CFC CHAPTER 33.
- CHANGES TO THE DIVISION OF THE STATE ARCHITECT-APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENTS FOR CHANGES TO THE STRUCTURAL, ACCESSIBILITY OR FIRE-LIFE SAFETY PORTIONS OF THE PROJECT. CHANGES SHALL BE SUBMITTED TO AND APPROVED BY DSA PRIOR TO COMMENCEMENT OF THE WORK SHOWN THEREON. (CAC 4-338(g))
- 19. GRADING, PLANS, DRAINAGE, IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL PERMITANCES.**

#### APPLICABLE CODES

LIST OF 2016 CALIFORNIA CODE OF REGULATIONS (C.C.R.)		
PART 1	2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R.	
PART 2	2016 CALIFORNIA BUILDING CODE (CBC), TITLE 24 C.C.R. (2015 IBC VOL. 1-2 AND 2016 CALIFORNIA AMENDMENTS)	
PART 3	2016 CALIFORNIA ELECTRICAL CODE (CEC), TITLE 24 C.C.R. (2014 N.E.C. AND 2016 CALIFORNIA AMENDMENTS)	
PART 4	2016 CALIFORNIA MECHANICAL CODE (CMC), TITLE 24 C.C.R. (2015 U.M.C. CODE AND 2016 CALIFORNIA AMENDMENTS)	
PART 5	2016 CALIFORNIA PLUMBING CODE (CPC), TITLE 24 C.C.R. (2015 U.P.C. AND 2016 CALIFORNIA AMENDMENTS)	
PART 6	2016 CALIFORNIA ENERGY CODE (CEC), 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. (2015 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)	
PART 10	2016 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R. (2012 INTERNATIONAL EXISTING BUILDING CODE OF ICC, WITH AMENDMENTS)	
PART 11	2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN CODE), TITLE 24 C.C.R.	
PART 12	2016 CALIFORNIA REFERENCED STANDARDS CODE, TITLE 24 C.C.R.	
PART 13	C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS	
PART 14	2015 ASME A17.1/10A T17.1/10A CSA 3444-09 ADDENDUM, SAFETY CODE FOR ELEVATORS AND ESCALATORS.	
PARTIAL LIST OF APPLICABLE STANDARDS		
ADDITIONAL NFPA APPLICABLE STANDARDS SHALL BE AS LISTED IN THE PROJECT SPECIFICATION SECTIONS OF THE PROJECT MANUAL.		
2015 CALIFORNIA BUILDING CODE (FOR SPFM) REFERENCED STANDARDS CHAPTER 35		
NFPA 13	AUTOMATIC SPRINKLER SYSTEM (CALIFORNIA AMENDED)	2016 EDITION
NFPA 14	STANDPIPE SYSTEMS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 17A	WET CHEMICAL SYSTEMS	2013 EDITION
NFPA 20	STATIONARY PUMPS	2016 EDITION
NFPA 22	WATER TANKS FOR PRIVATE PROTECTION	2013 EDITION
NFPA 24	PRIVATE FIRE SERVICES MANS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED)	2016 EDITION
NFPA 80	SYNDARDS FOR SMOKE CONTROL SYSTEMS	2016 EDITION
NFPA 92	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2015 EDITION
NFPA 253	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CALIFORNIA AMENDED)	2015 EDITION
NFPA 2001	ICC STANDARD ON BLEACHERS, FOLDING AND TELESCOPING	2015 EDITION
ICC 300	AND GRAND STANDS	2015 EDITION
UL 300	FIRE TEASING OF FIRE EXTINGUISHERS SYSTEMS FOR PROTECTION OF	2005 EDITION
UL 464	RESTAURANT COOKING	
UL 521	AUDIBLE SIGNAL APPLIANCES	2016 EDITION
	HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	2016 EDITION

#### SCOPE OF WORK

WORK INCLUDED IN THE CONTRACT:  
REMODEL OF EXISTING 740 S.F. SPACE FOR FOOD PANTRY. PROJECT WILL CONSIST OF SHOPPING AREA WITH STORAGE AREA, MINOR MODIFICATION TO MECHANICAL, PLUMBING, ELECTRICAL, ADD FIRE PROTECTION & FIRE ALARM SYSTEMS AS REQUIRED, THE WORK TO BE COMPLETED PER APPLICABLE CODES AND TYPE OF CONSTRUCTION REFERENCED ON THIS SHEET AND WITHIN CONTRACT DOCUMENTS.

#### PROJECT DATA

**PROJECT ADDRESS**  
PALOMAR COLLEGE  
1140 W. MISSION ROAD  
SAN MARCOS, CA 92069

**OCCUPANCY TYPE**  
V-NR

**CONSTRUCTION TYPE**  
V-NR

**AUTOMATIC SPRINKLERS THROUGHOUT**  
NO

**NO. OF STORIES**  
1

**SQUARE FOOTAGE**  
744

#### SHEET INDEX

##### GENERAL

- G-0.1 TITLE SHEET  
G-1.1 CODE ANALYSIS

##### ARCHITECT

- A-1.0 CAMPUS SITE PLAN  
A-2.0 DEMOLITION FLOOR & REFLECTED CEILING PLAN  
A-3.0 REMODEL FLOOR & REFLECTED CEILING PLAN  
A-4.0 ROOF PLANS  
A-5.0 EQUIPMENT FLOOR PLAN  
A-6.0 ELEVATIONS & BUILDING SECTION  
A-6.1 ACCESSIBLE RESTROOMS & DRINKING FOUNTAIN  
A-10.0 MISCELLANEOUS DETAILS  
A-10.1 CEILING DETAILS  
A-10.2 MISCELLANEOUS DETAILS

##### MECHANICAL

- M-0.1\* MECHANICAL, LEGEND, GENERAL NOTES AND SCHEDULES  
M-2.1\* MECHANICAL FLOOR AND ROOF PLAN  
M-5.1\* MECHANICAL DETAILS

##### PLUMBING

- P-0.1\* PLUMBING LEGEND, GENERAL NOTES AND SCHEDULES  
P-2.1\* PLUMBING DEMOLITION AND FLOOR PLAN  
P-2.2\* PLUMBING ROOF PLAN  
P-5.1\* PLUMBING DETAILS

##### ELECTRICAL

- E-0.1\* ELECTRICAL, COMMUNICATION AND TECHNOLOGY LEGEND AND NOTES  
E-1.1\* PARTIAL SITE PLAN  
E-2.0\* TITLE 24  
E-2.1\* FOOD BANK FLOOR PLAN LIGHTING  
E-3.1\* FOOD BANK FLOOR PLAN POWER / ROOF PLAN  
E-3.2\* POWER DETAILS  
E-5.1\* FOOD BANK FLOOR PLAN FIRE ALARM  
E-5.2\* FIRE ALARM DETAILS  
E-10.1\* FOOD BANK DEMOLITION FLOOR PLAN

#### SYMBOLOLOGY

**NORTH ARROW**  
OVERLAY ARROW INDICATES TRUE NORTH  
SHADED AREA INDICATES PLAN NORTH

**ELEVATION CALLOUT**  
TYPICAL ELEVATION AND SECTION  
1/1 A10  
INDICATES A SIMILAR CONDITION  
SHEET WHERE SECTION IS DRAWN  
LOCATION ON SHEET

**SECTION CALLOUT**  
INDICATES A SIMILAR CONDITION  
LOCATION ON SHEET  
SHEET WHERE SECTION IS DRAWN

**DETAIL CALLOUT**  
INDICATES A SIMILAR CONDITION  
LOCATION ON SHEET  
SHEET WHERE SECTION IS DRAWN

**CONTROL OR DATUM POINT**  
NAME OF ELEVATION (IF APPLICABLE)  
ELEVATION ABOVE FINISHED FLOOR

**GRID BUBBLE**  
GRID NUMBER

**DOOR CALLOUT**  
DOOR NUMBER

**WINDOW CALLOUT**  
WINDOW NUMBER  
(SEE WINDOW SCHEDULE A9.12 - A9.13)

**INTERIOR FINISH CALLOUT**  
MATERIAL FINISH TYPE

**DEMOLITION KEYNOTE**  
KEYNOTE NUMBER (SEE LEGEND ON SHEET)

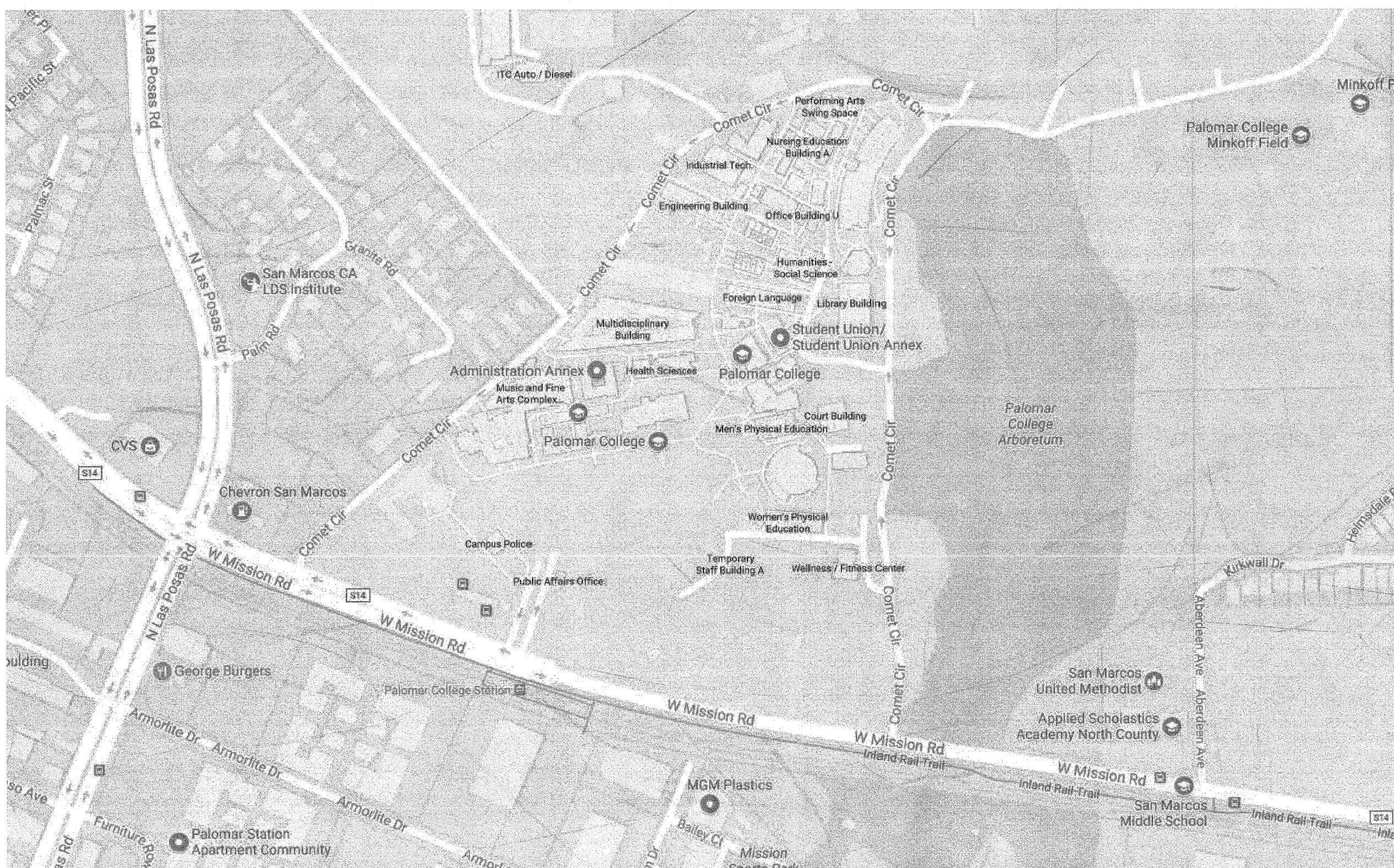
**NEW CONSTRUCTION KEYNOTE**  
KEYNOTE NUMBER (SEE LEGEND ON SHEET)

**ROOM EXITING INFORMATION**  
AREA (SQ FT)  
OCCUPANT LOAD FACTOR (REFER TO TABLE 1004.1.1)  
OCCUPANT LOAD (AREA DIVIDED BY LOAD FACTOR)  
NUMBER OF EXITS REQUIRED (REFER TO TABLE 1015.1)

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

**WIC CASEWORK TAG**  
MANUFACTURER REFERENCE AND MODEL NUMBER  
CABINET WIDTH  
CABINET HEIGHT  
CABINET DEPTH

#### VICINITY MAP



#### Statement of General Conformance

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

(Application No. 04-116532)

- ☒ The drawings or sheets listed on the cover or index sheet and designated with an "x" have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

- design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and
- coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17902 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1, (Title 24, Part 1, Section 4-317 (b)).

I find that: ☒ All drawings or sheets listed on the cover or index sheet

- ☒ is/are in general conformance with the project design, and  
☒ has/have been coordinated with the project plans and specifications.

Signature: *Bradley E. Glassick* 10-31-2017  
Date

Architect or Engineer designated to be in general responsible charge

Bradley E. Glassick  
Print Name

C-32437 02-28-2019  
License Number Expiration Date

#### Agency Approval

AS: R. MULLEN  
PS: J. BURKE  
SS: F. ALDANA

FILE NO. 37-C1  
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES  
APPL. # 04-116532  
AC: *Nov* FLS: *Ar* SS: *Ar*  
DATE: NOV 08 2017

#### Project Title:

**PALOMAR COLLEGE**  
**ANITA & STAN MAAG**  
**FOOD & NUTRITION CENTER**  
PALOMAR COLLEGE  
1140 W. MISSION RD.  
SAN MARCOS, CA 92069-1487

No.	Description	Date	No.	Description	Date

#### Drawing Title:

#### TITLE SHEET

Architect's Seal	Designed: MB	Project No. 5015022
	Drawn: JR/MM	Scale: AS NOTED
	QA/QC: BG	Drawing No. G-0.1
	Date: 10-31-2017	



CONSTRUCTION TYPE: V-NR (NOT SPRINKLERED)  
NO CHANGE IN OCCUPANCY AND NO ADDED SQUARE FOOTAGE.  
OCCUPANCY BUSINESS USE GROUP B  
REFER TO REFERENCE DRAWINGS A0.2 CODE REVIEW PER A#04-103434.  
A 2-HOUR RATED AREA SEPARATION WALL WAS PROVIDED (PER A#04-103434) BETWEEN THE TYPE V AND TYPE II CONSTRUCTION.  
TYPE V CONSTRUCTION PORTION OF THE STUDENT UNION IS A SEPARATE BUILDING, PER A#04-103434.  
REFER TO A1/A-3.0 FOR EXITING INFORMATION.

DETAIL  
SCALE: NONE

E5

DETAIL  
SCALE: NONE

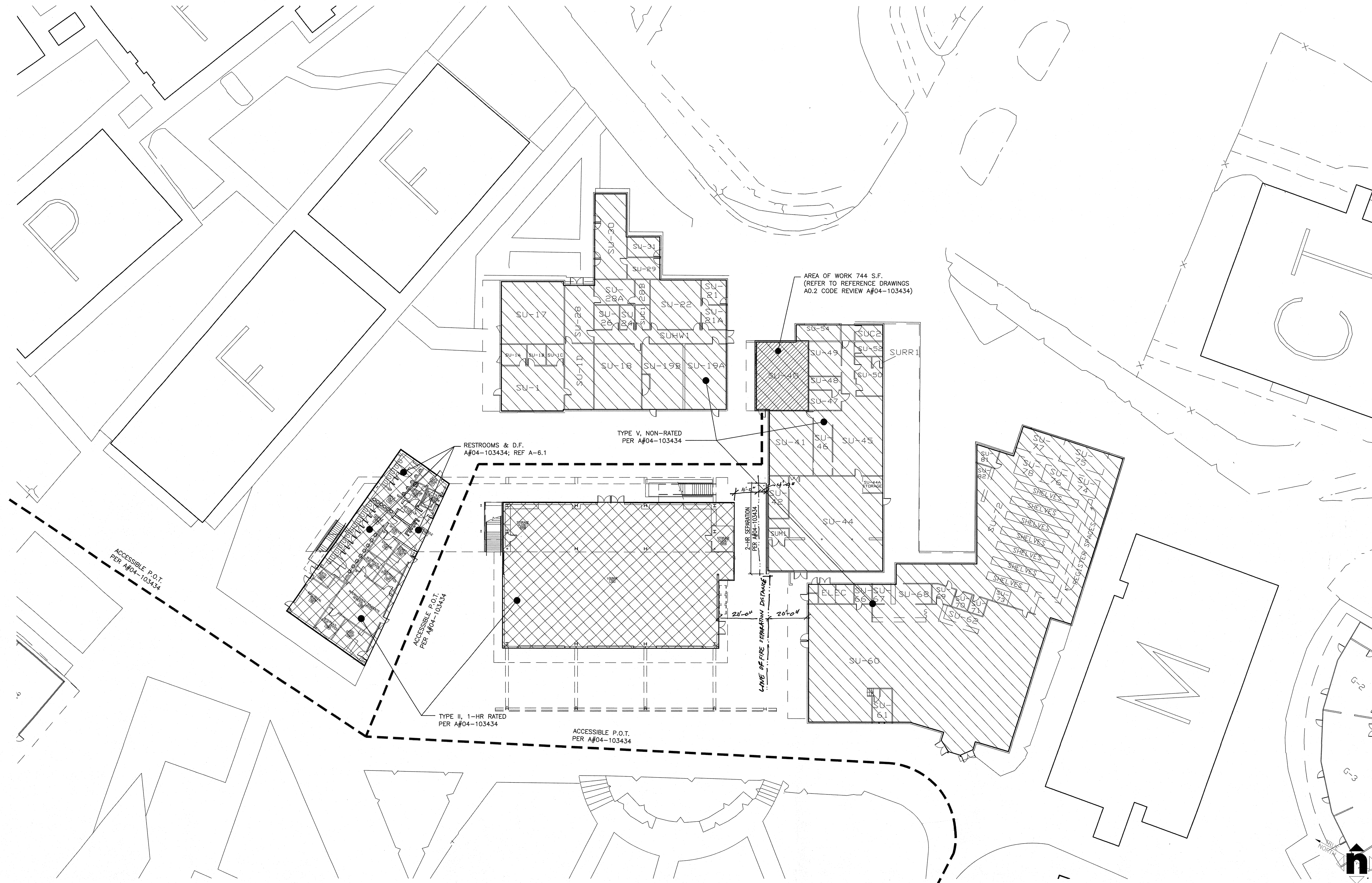
E4

DETAIL  
SCALE: NONE

E3

CODE ANALYSIS NOTES  
SCALE: NONE

E1



PARTIAL CAMPUS SITE PLAN

A1

SCALE: 1"=20'-0"

Consultant

Key Plan

Agency Approval

FILE NO. 37-C1  
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APPL. # 04-116532  
AC. NOV 08 2017  
FLS. 11  
SS. 11  
DATE

Project Title:

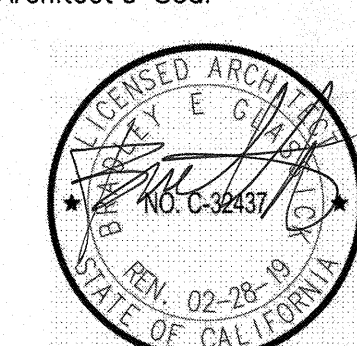
PALOMAR COLLEGE  
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SAN MARCOS, CA 92069-1487

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Drawing Title:

CODE ANALYSIS

Architect's Seal



Designed:

MB

Drawn:

JR/MM

QAQC:

BG

Date:

10-31-2017

Project No.

5015022

Scale:

AS NOTED

Drawing No.

G-1.1



LEGEND

EXISTING ACCESSIBLE PATH OF TRAVEL (P.O.T.)  
NEW ACCESSIBLE PATH OF TRAVEL (P.O.T.)

PATH OF TRAVEL (P.O.T.), AS INDICATED IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/4" BEVELED AT 1:2 MAX. SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND IS A LEAST 48" MINIMUM WIDE SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. (POT) SHALL MAINTAIN FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (11338.8.2) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (11338.8.6). ARCHITECT TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC 11338. REFER TO CIVIL PLANS.

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

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCOMPLYING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

ACCESSIBLE RESTROOM AND DRINKING FOUNTAIN  
(M=MEN, W=WOMEN, U=UNISEX, DF= DRINKING FOUNTAINS)  
A#04-103434

FIRE ACCESS ROAD - PERMANENT  
A#04-113301

Consultant

Key Plan

Agency Approval

FILE NO. 37-C1

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

APPL. # 04-116532

AC. *[Signature]* FLS. *[Signature]* SS. *[Signature]*  
DATE NOV 08 2017

Project Title:

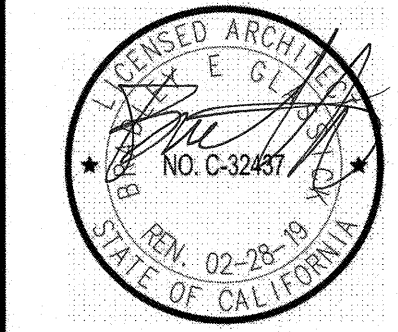
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1140 W. MISSION RD.  
SAN MARCOS, CA 92069-1487

No.	Description	Date	No.	Description	Date

Drawing Title: CAMPUS SITE PLAN

Architect's Seal



Designed:

MB

Drawn:

JR/MM

QAQC:

BG

Date:

10-31-2017

Project No.

5015022

Scale:

AS NOTED

Drawing No.

A-1.0

CAMPUS SITE PLAN

SCALE: 1"=120'-0"

A1

PLEASE RECYCLE



DEMOLITION KEYNOTES

- 01 REMOVE EXISTING DOOR AND FRAME IN ITS ENTIRETY.
- 02 REMOVE EXISTING WINDOW AND FRAME IN ITS ENTIRETY.
- 03 REMOVE EXISTING FLOORING (ALL LAYERS) AND PREP TO RECEIVE NEW FLOORING.
- 04 REMOVE EXISTING SUSPENDED T-BAR CEILING.
- 05 REMOVE EXISTING ASBESTOS CEILING TILE HIDDEN ABOVE EXISTING T-BAR CEILING AND 1x3 FURRING STRIP AT UNDER SIDE OF EXISTING ROOF JOISTS. (ABATEMENT WORK BY OTHERS, CONTRACTED DIRECTLY BY OWNER.)
- 06 SAW-CUT AND REMOVE (E) CONCRETE AS REQUIRED TO ACCOMMODATE NEW PLUMBING.
- 07 REMOVE CASEWORK AND PLUMBING FIXTURE IN ITS ENTIRETY. CAP ALL UTILITIES AS REQUIRED.
- 08 REMOVE EXISTING MECHANICAL GRILLES.
- 09 REMOVE EXISTING LIGHT FIXTURES.
- 10 REMOVE AND REPLACE GYP. BD. FINISH UP TO 10'-0" A.F.F. TO ACCOMMODATE NEW WORK.
- 11 EXISTING WINDOWS TO REMAIN, PROTECT IN PLACE DURING ALL PHASES OF CONSTRUCTION.
- 12 EXISTING DOWN SPOUT AND DRAIN TO REMAIN AND PROTECTED DURING ALL PHASES OF CONSTRUCTION.
- 13 REMOVE GYP. BD. AND WALL FURRING TO EXPOSE (E) WALL FRAMING.
- 14 REMOVE EXISTING PLUMBING FIXTURES IN THEIR ENTIRETY; CAP ALL EXISTING UTILITIES AS REQUIRED.
- 15 LINE OF ROOF OVERHANG, PROTECT IN PLACE.
- 16 EXISTING WD POST TO REMAIN; PROTECT IN PLACE; W/ (E) 6x8 HEADER ABOVE, PROTECT IN PLACE.

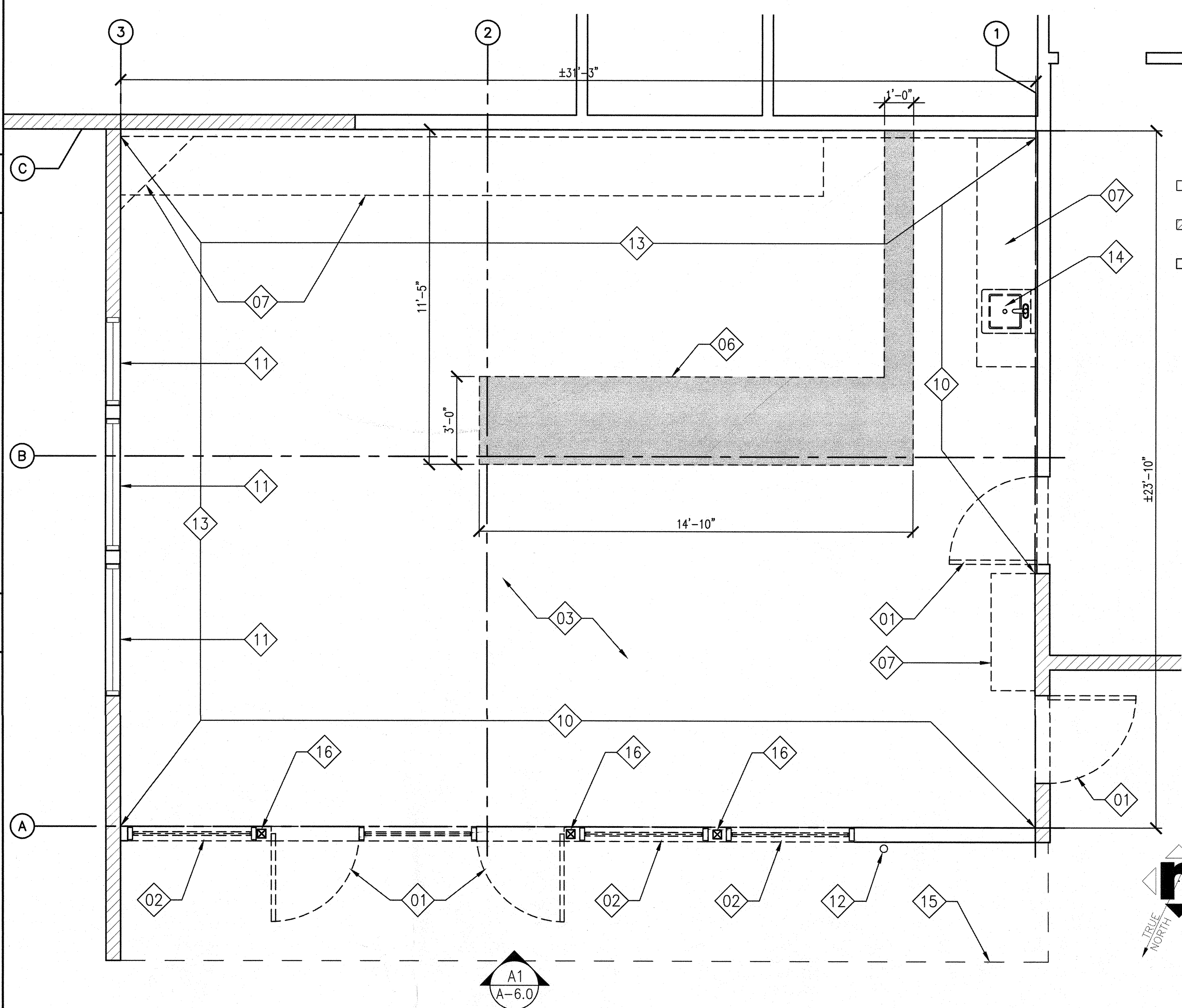
DEMOLITION NOTES

1. FOR TYPICAL SYMBOLS AND ABBREVIATIONS, REFER TO G-0.1
2. THE DEMOLITION PLANS INDICATE EXISTING ITEMS TO REMAIN, TO BE RELOCATED AND TO BE REMOVED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH ALL THE TRADES, THE LOCATION AND EXTENT OF THE DEMOLITION REQUIRED FOR THE NEW CONSTRUCTION. REFER TO ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. REPAIR EXISTING ITEMS DAMAGED DURING DEMOLITION AND CONSTRUCTION AS REQUIRED TO RESTORE THEM TO THEIR ORIGINAL CONDITION.
4. REMOVE EXISTING PLUMBING FIXTURES; PROVIDE NEW FIXTURES AND PIPING AFFECTED BY DEMOLITION SCOPE OF WORK.
5. REMOVE ALL FLOORING, GYPSUM BOARD FINISH, CEILING SUSPENDED SYSTEM AND TILES, AND ALL WALL FURRING TO EXPOSE FRAMING.
6. FOR ANY PLUMBING OR ELECTRICAL BEING REMOVED CAP IN WALL.
7. SALVAGE ALL CASEWORK, FIXTURES, WINDOWS, DOORS, AND ANY OTHER DISTINCT ITEMS FOR REUSE BY THE OWNER. CONFIRM WITH OWNER PRIOR TO DISPOSAL.

DEMOLITION REFLECTED CEILING PLAN

SCALE: 3/8" = 1'-0"

C1



- EXISTING 2X WD FRAME WALLS TO REMAIN
- EXISTING MASONRY WALLS TO REMAIN
- WALLS/DOORS/WINDOWS/CASEWORK TO BE REMOVED

Consultant

Key Plan

Agency Approval

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No.	Description	Date	No.	Description	Date

Drawing Title:

DEMOLITION FLOOR & REFLECTED CEILING PLAN



Designed: MB Project No. 5015022  
Drawn: JR/MM Scale: AS NOTED  
QA/QC: BG Drawing No. A-2.0  
Date: 10-31-2017

DEMOLITION FLOOR PLAN

SCALE: 3/8" = 1'-0"

A1

DETAIL E5  
SCALE: NONE

DETAIL E4  
SCALE: NONE

DETAIL D5  
SCALE: NONE

DETAIL D4  
SCALE: NONE

DETAIL C5  
SCALE: NONE

DETAIL C4  
SCALE: NONE

DETAIL B5  
SCALE: NONE

DETAIL B4  
SCALE: NONE

NOT USED A5  
SCALE: NONE

NOT USED A4  
SCALE: NONE



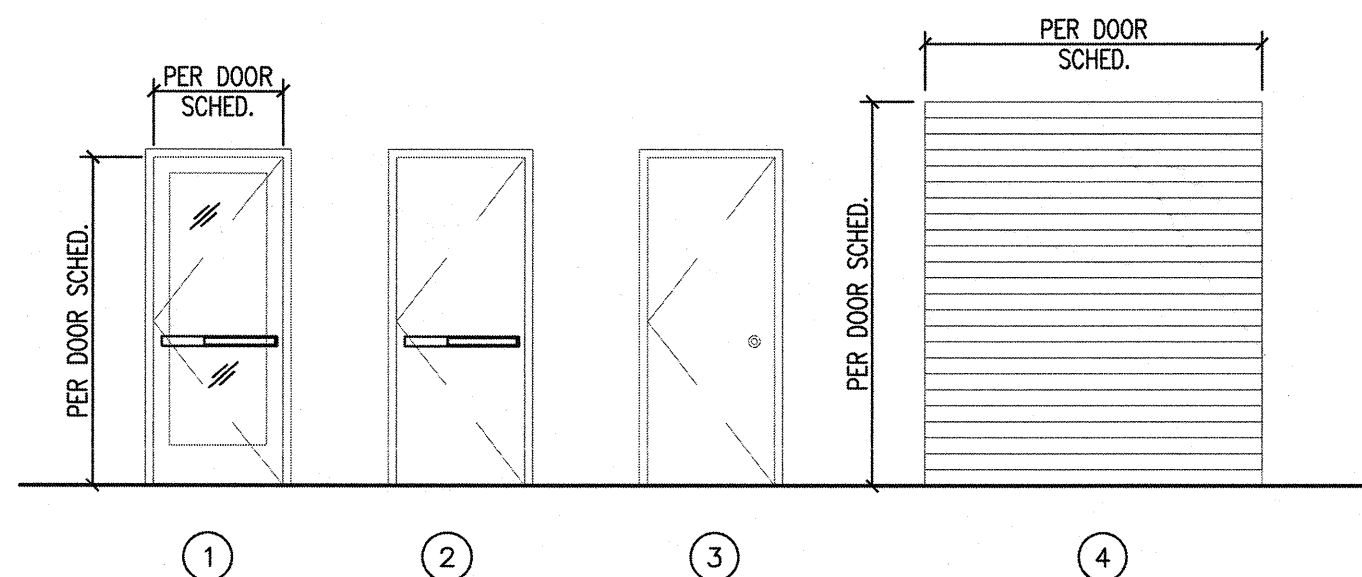
1. EXISTING ROOF OVERHANG.
2. NOT USED.
3. NEW CLERESTORY WINDOW; WINDOW TYPE "B".
4. NOT USED.
5. NEW CLERESTORY WINDOW OVER DOOR; WINDOW TYPE "A".

01 NOT USED  
02 ADD BLOCKING TO WALL AS REQUIRED, PER E5/A-10-0.  
03 NOT USED  
04 NEW EQUIPMENT OR FURNITURE; OWNER FURNISHED, CONTRACTOR  
INSTALL. REFER TO SHEET A-5.0.  
05 NEW ELECTRICAL PANEL, SEE ELECTRICAL DRAWINGS.  
06 NEW PLUMBING FIXTURES, SEE PLUMBING DRAWINGS.  
07 NEW SOLID SURFACE COUNTERTOP.  
08 NEW SEMI-RECESSED FIRE EXTINGUISHER CABINET PER DETAIL  
A5/A-10-2.  
09 NEW TACTILE ROOM ID SIGNAGE PER B2/A-10-2.  
10 NEW TACTILE EXIT SIGNAGE PER E1/A-10-2.  
11 EXISTING ROOF OVERHANG ABOVE.  
12 LINE OF SPLITTE ABOVE  
13 NEW TACTILE EXIT ROUTE SIGNAGE PER E1/A-10-2.  
14 NEW TRASH RECEPTACLE, 8"x12"

NOTE:  
REUSE (E) WINDOW  
HEADER; (N) JAMBS  
AND SILLS WHERE  
REQUIRED. REF TO  
D/A-10.0.

## SCALE: NONE

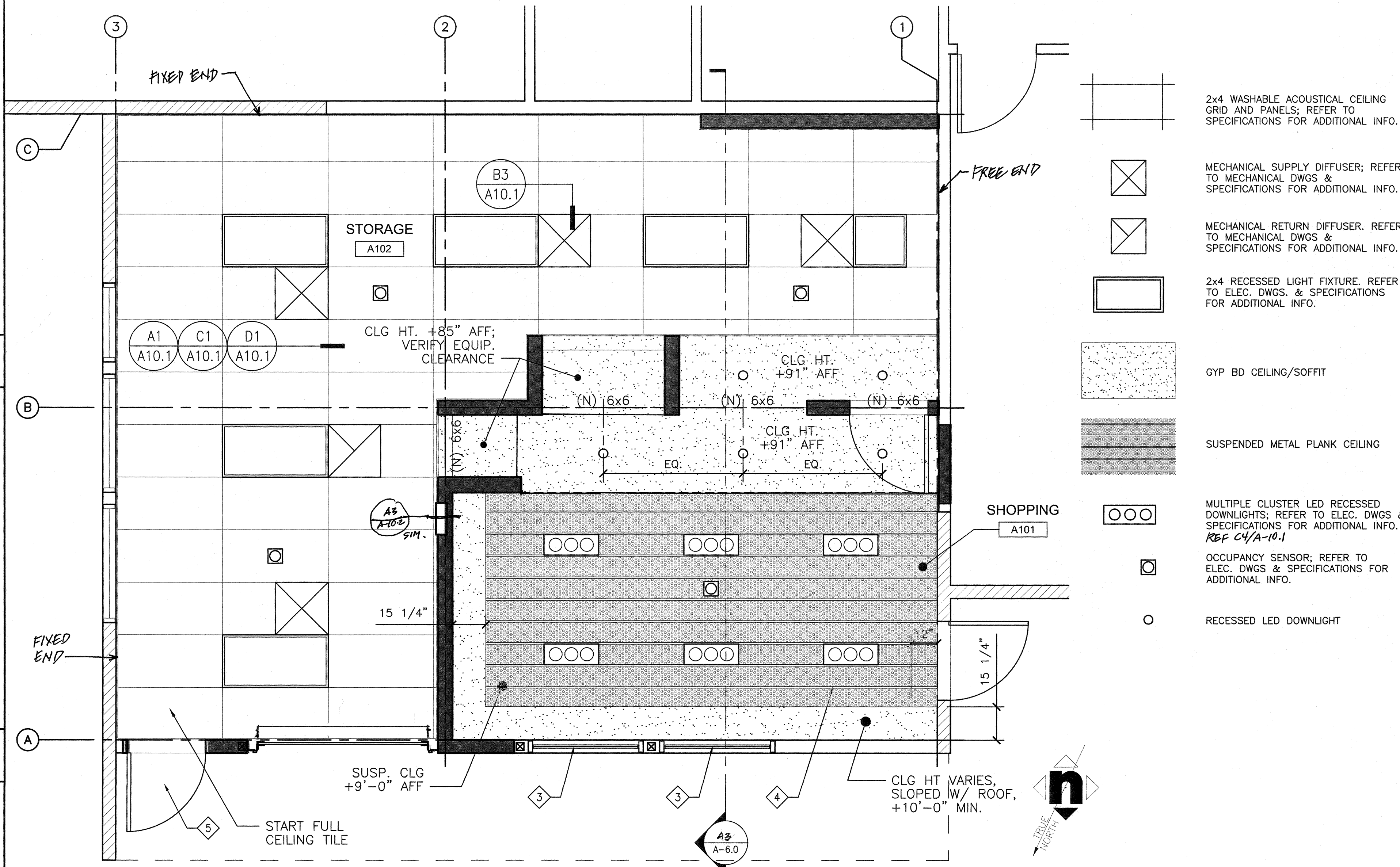
DOOR SCHEDULE															
DOOR NUMBER	DOOR SIZE			FIRE RATING	Door				FRAME		HARDWARE GROUP	PANIC	DETAILS (SHEET A10.0 U.N.O.)		Comments
	PANEL 1	WIDTH	HEIGHT		MATERIAL	FINISH	DOOR TYPE	UNDERCUT	MATERIAL	FRAME TYPE			HEAD/JAMB	THRESH	
		PANEL 2													
101		3' - 0"	7' - 0"	NR	GL	FF	1	0' - 0"	HM	-	01	YES	A3	C3	(E) OPENING
102		3' - 0"	7' - 0"	NR	FWD1	PT	3	0' - 0"	HM	-	03	No	A4	C4	(N) OPENING
103		3' - 0"	7' - 0"	NR	MTL	PT	2	0' - 0"	HM	-	02	YES	A3	C3	(N) OPENING
104		7' - 0"	8' - 0"	NR	MTL	FF	4	0' - 0"	STL	-	RU-01	No	B3/B5	-	(N) OPENING



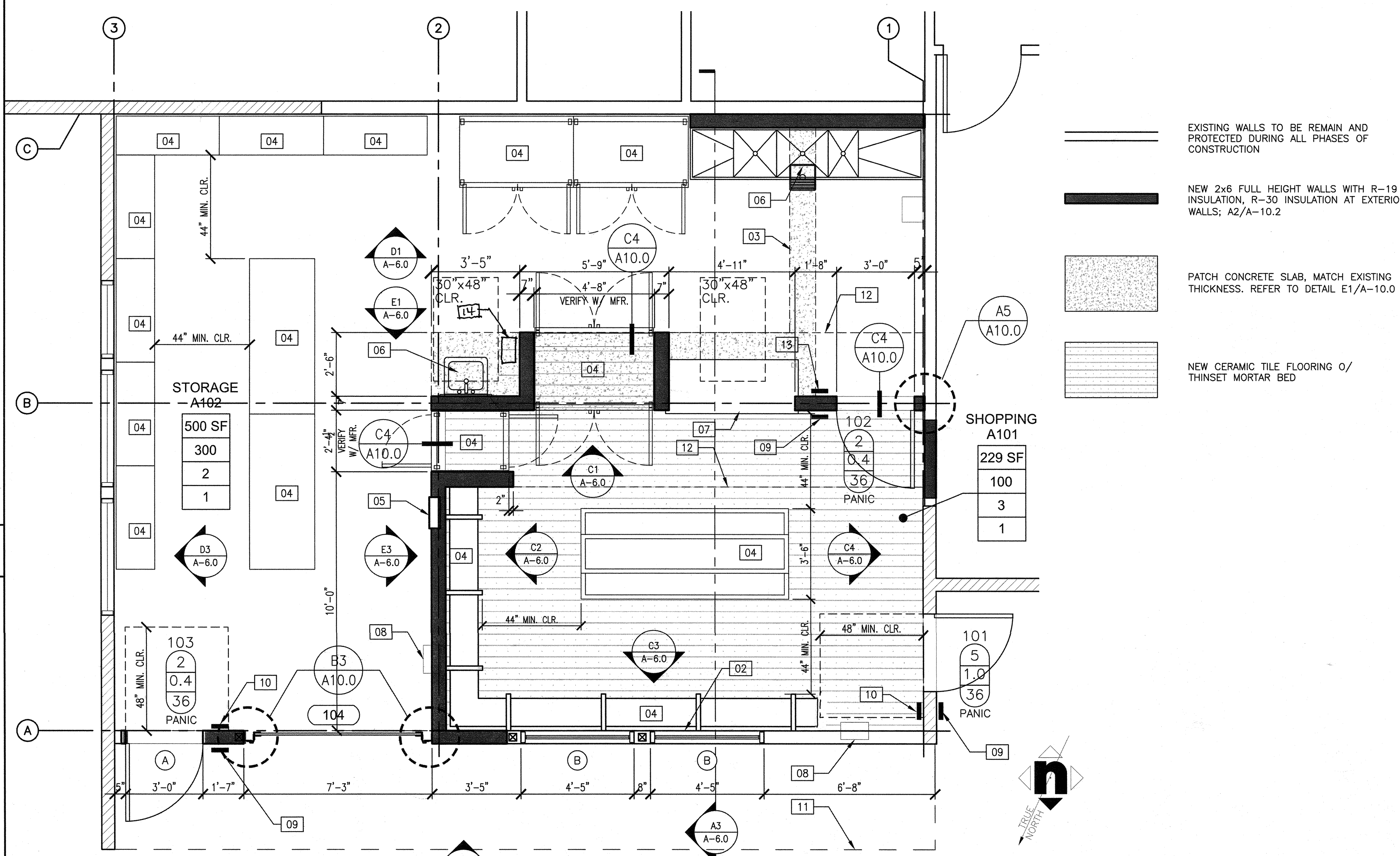
## SCALE: NONE

ROOM FINISH SCHEDULE																			
NUMBER	NAME	FLOOR	BASE		WALLS												CEILING	REMARKS	
			MATERIAL	COLOR	NORTH			EAST			SOUTH			WEST					
					MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR			
101	SHOPPING	CT1	B1	63	GB	ES	PE1	CT1	FF	-	GB	ES	PE1	GB	ES	PE1	MP1		
102	STORAGE	CONC	B1	63	GB	ES	PE1	GB	ES	PE1	GB	ES	PE1	GB	ES	PE1	AC1		

## SCALE: NONE



SCALE: 3/8" = 1'-0"



SCALE: 3/8" = 1'-0"





ROOF PLAN KEYNOTES

1. NEW HVAC UNIT AND CURB IN EXISTING LOCATION. REFER TO MECHANICAL PLANS. *INSTALL IN EXISTING CURB.*
2. EXISTING ELECTRICAL CONDUITS TO REMAIN, PROTECT DURING ALL PHASES OF CONSTRUCTION.
3. PATCH AND REPAIR ROOF AS REQUIRED AFTER REPLACEMENT OF EXISTING UNIT.
4. EXISTING 2x16 ROOF JOISTS @ 24" O.C.
5. EXISTING HVAC UNIT TO BE REMOVED AND REPLACED.
6. PATCH EXISTING POLYURETHANE FOAM ROOFING TO MATCH EXISTING.
7. FOAM ROOF CRICKET AS REQUIRED.
8. SISTER (N) 2x14 (DF#1) TO (E) 2x14 W/ 2 ROWS 16d @ 4" O.C. - STAGGERED FULL LENGTH OF (E) JOIST.
9. PROVIDE 2x14 BLK'S TYP. W/ SIMPSON HUS HANGERS, EDGE NAIL (E) PLYWOOD TO BLK'S & JOIST W/ 8d @ 6" O.C.
10. ACCOMMODATE NEW RETURN AND SUPPLY DUCTS THROUGH EXISTING ROOF PENETRATIONS. DO NOT CUT EXISTING ROOF JOISTS.
11. (N) ROOF VENT PENETRATION. REFER TO D5/A-10.0.

DETAIL

SCALE: NONE

E5

DETAIL

SCALE: NONE

E4

DETAIL

SCALE: NONE

E3

DETAIL

SCALE: NONE

E2

DETAIL

SCALE: NONE

E1

DETAIL

SCALE: NONE

D5

DETAIL

SCALE: NONE

D4

DETAIL

SCALE: NONE

D3

DETAIL

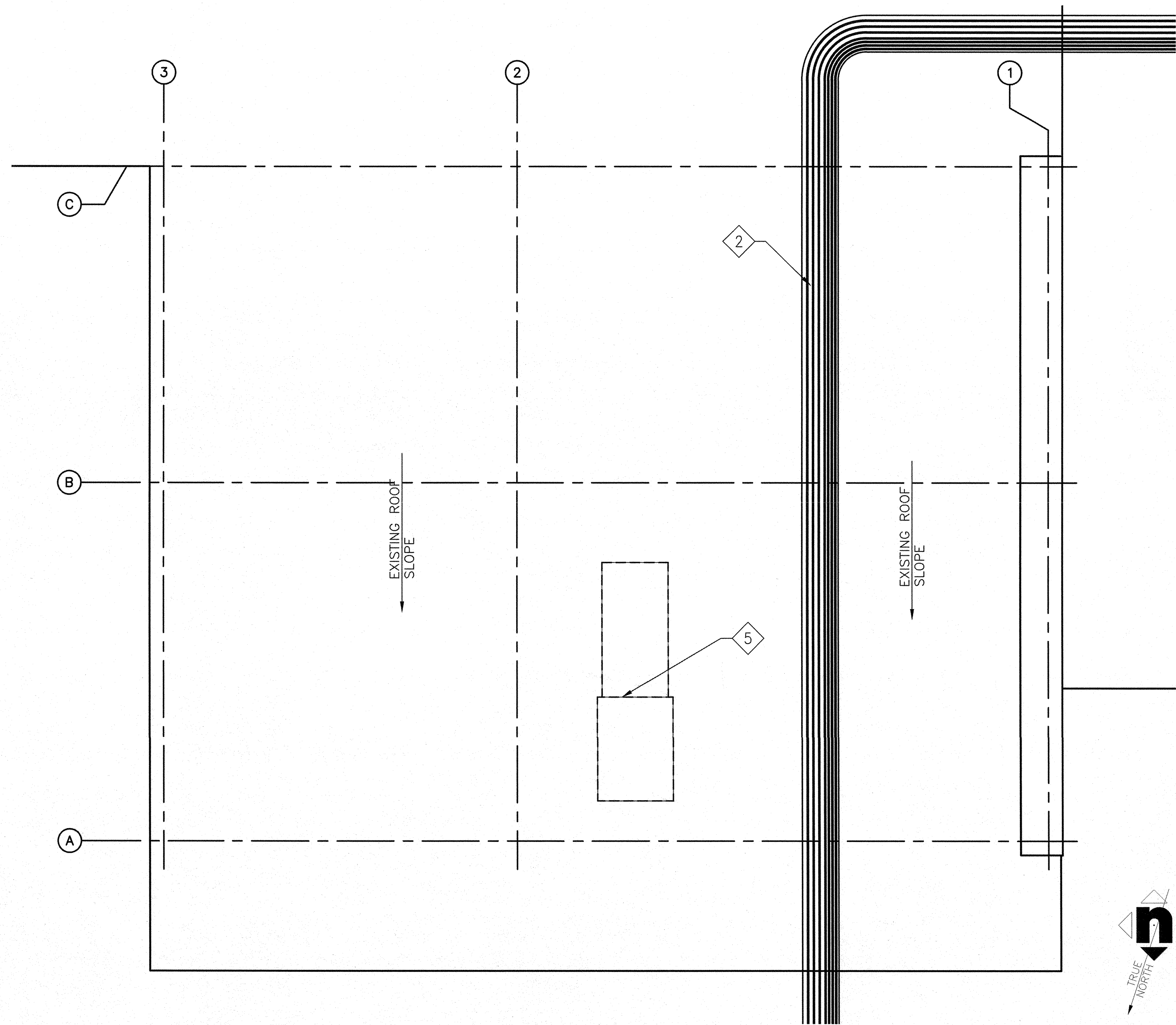
SCALE: NONE

D2

NOT USED

SCALE: NONE

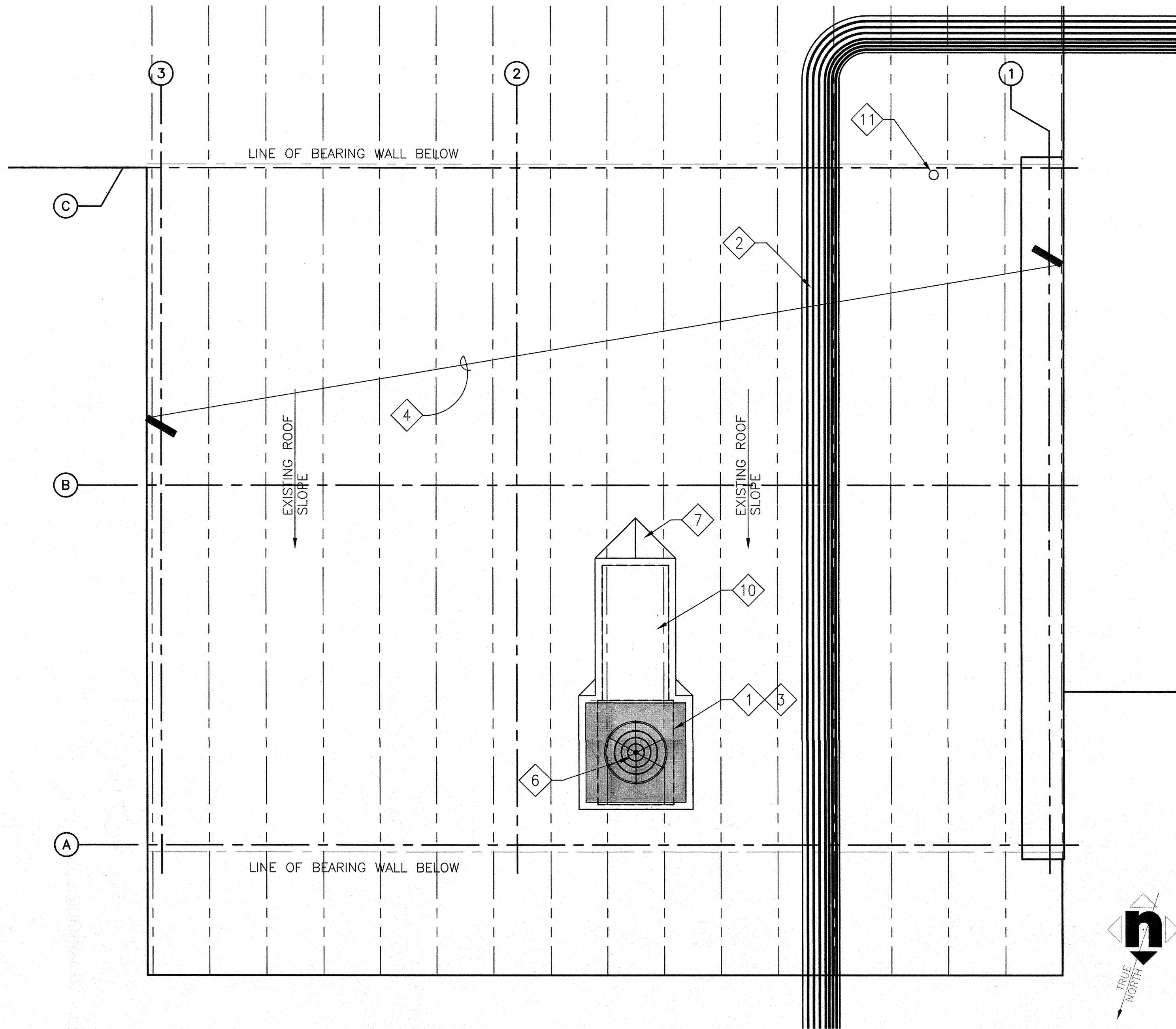
D1



DEMOLITION ROOF PLAN

SCALE: 3/8"=1'-0"

A3



REMODEL ROOF PLAN

SCALE: 3/8"=1'-0"

A4

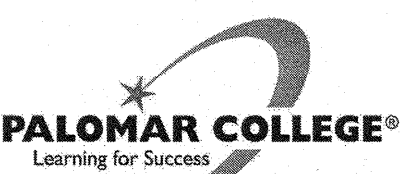
Consultant

Key Plan

Agency Approval

FILE NO. 37-C1  
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES  
APPL. # 04-116532  
AC. ☒ FLS. ☒ SS. ☒  
DATE NOV 0 8 2017

Project Title:



PALOMAR COLLEGE  
ANITA & STAN MAAG  
FOOD & NUTRITION CENTER  
PALOMAR COLLEGE  
1140 W. MISSION RD.  
SAN MARCOS, CA 92069-1487

No.	Description	Date	No.	Description	Date

Drawing Title:

ROOF PLANS

Architect's Seal



Designed:

MB

Drawn:

JR/MM

QAQC:

BG

Date:

10-31-2017

Project No.

5015022

Scale:

AS NOTED

Drawing No.

A-4.0



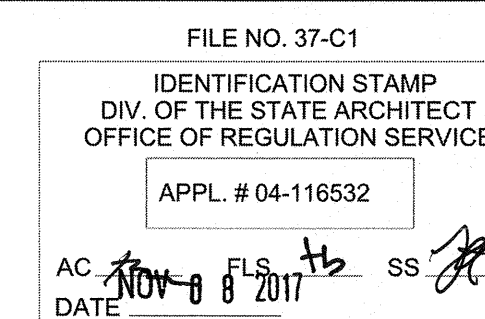
### EQUIPMENT PLAN KEYNOTES

- 101 MOBILE STORAGE RACK.  
102 NOT USED.  
103 FRUIT/MERCHANDISE CART.  
104 DISPLAY SHELVING, *ANCHOR PER D4/A-10.0.*  
105 MOVEABLE TABLE, MAX HT. 34"  
106 SINGLE DOOR PASS-THRU REFRIGERATOR.  
107 DOUBLE DOOR PASS-THRU REFRIGERATOR.  
108 DOUBLE DOOR REACH-IN REFRIGERATOR.  
109 NSF APPROVED 3-COMPARTMENT SINK & FAUCET, WITH MIN. 20" LONG DRAIN BOARDS ON BOTH SIDES.  
110 SERVICE COUNTER.  
111 FLOOR SINK.  
112 HAND-WASH SINK & FAUCET.

Consultant

Key Plan

Agency Approval



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ANITA & STAN MAAG  
FOOD & NUTRITION CENTER  
PALOMAR COLLEGE  
1140 W. MISSION RD.  
SAN MARCOS, CA 92069-1487

No.	Description	Date	No.	Description	Date

Drawing Title: EQUIPMENT FLOOR PLAN

Architect's Seal



Designed:

MB

Drawn:

JR/MM

QAQC:

BG

Date:

10-31-2017

Project No.

5015022

Scale:

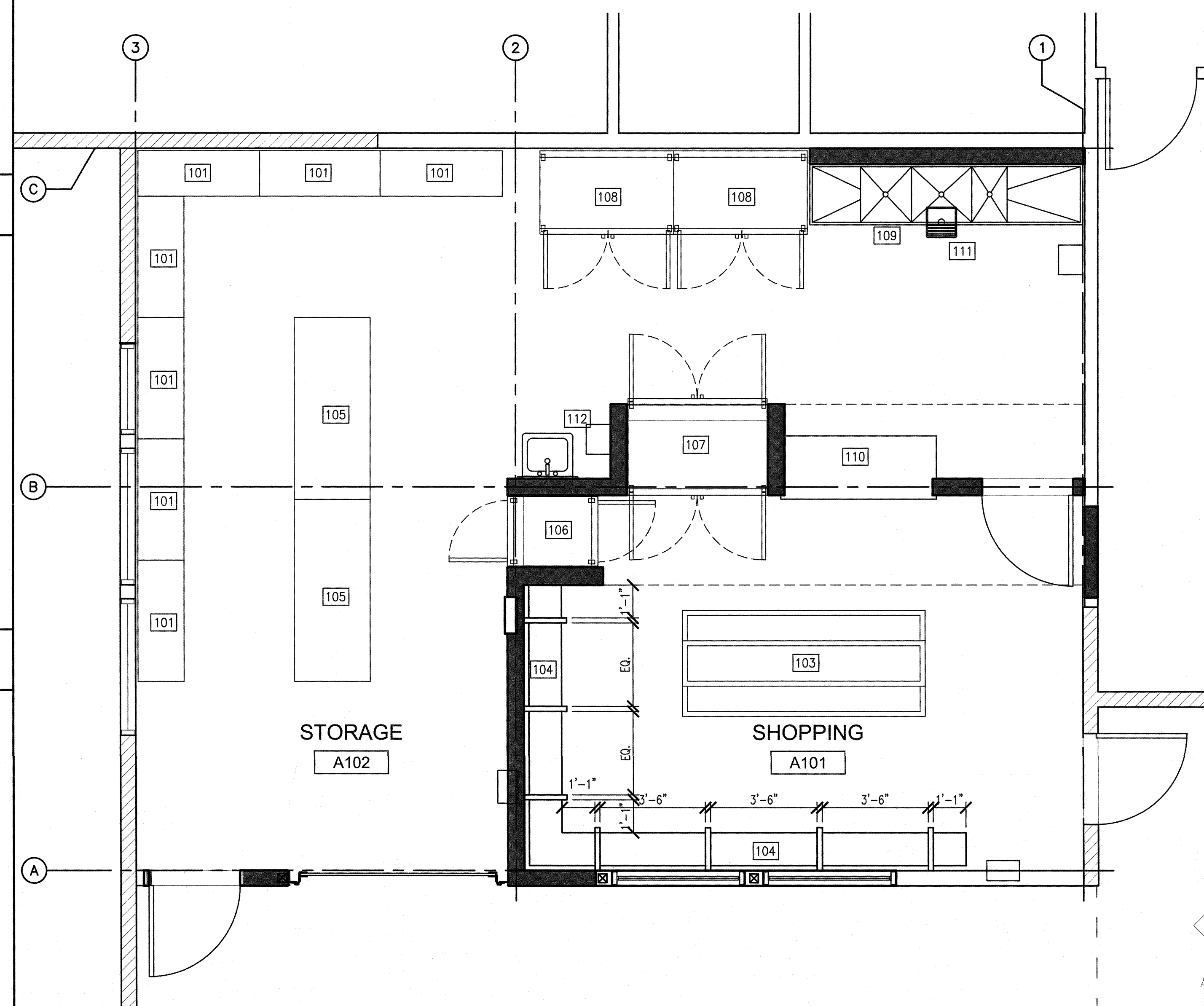
AS NOTED

Drawing No.

A-5.0

EQUIPMENT FLOOR PLAN

SCALE: 3/8"= 1'-0"



EXISTING WALLS TO BE REMAIN AND PROTECTED DURING ALL PHASES OF CONSTRUCTION  
NEW 2x6 FULL HEIGHT WALLS WITH R-19 INSULATION, R-30 INSULATION AT EXTERIOR WALLS; A2/A-10.0

DETAIL E5  
SCALE: NONE

DETAIL E4  
SCALE: NONE

DETAIL E3  
SCALE: NONE

DETAIL E2  
SCALE: NONE

DETAIL E1  
SCALE: NONE

DETAIL D5  
SCALE: NONE

DETAIL D4  
SCALE: NONE

DETAIL D3  
SCALE: NONE

DETAIL D2  
SCALE: NONE

NOT USED D1  
SCALE: NONE

DETAIL C5  
SCALE: NONE

DETAIL C4  
SCALE: NONE

DETAIL B5  
SCALE: NONE

DETAIL B4  
SCALE: NONE

DETAIL A5  
SCALE: NONE

ROOF PLAN A4  
SCALE: NONE



ELEVATION KEYNOTES

- NEW PAINT OVER GYP.
- NEW PLASTER OVER PAPER BACKED METAL LATH O/ EXTERIOR GRADE 5/8" PLYWOOD SHEATHING. FINISH TO MATCH EXISTING COLOR AND FINISH.
- EXISTING DOWNSPOUT AND GUTTER TO REMAIN. PROTECT IN PLACE DURING ALL PHASES OF CONSTRUCTION.
- NEW ALUMINUM STOREFRONT WINDOWS TO MATCH EXISTING CLEAR ANODIZED SYSTEM.
- NEW DOOR. REFER TO DOOR SCHEDULE B4/A-3.0.
- NEW ROLL-UP DOOR. REFER TO DOOR SCHEDULE B4/A-3.0.
- NEW FRP WALL PANEL.
- NEW REFRIGERATORS AND STORAGE EQUIPMENT PROVIDED BY OWNER, INSTALLED BY CONTRACTOR. CONTRACTOR TO VERIFY SIZE AND TYPE OF EQUIPMENT BEFORE INSTALLING NEW FRAMING; REFER A-5/0.
- EXISTING WINDOWS TO REMAIN AND PROTECT IN PLACE DURING ALL PHASES OF CONSTRUCTION.
- EXISTING FOOTINGS.
- EXPOSED CONCRETE FLOOR.
- NEW MECHANICAL SUPPLY DIFFUSERS.
- NEW SUSPENDED METAL CEILING PANELS. REF TO A1/A-10.1
- NEW SUSPENDED ACOUSTICAL CEILING PANELS.
- NEW QUARTZ SURFACE COUNTERTOP, PER C2/A-10.0.
- NEW MECHANICAL UNIT IN EXISTING LOCATION; UTILIZE EXISTING ROOF PENETRATIONS FOR NEW DUCTING, REFER TO MECHANICAL DRAWINGS.
- NEW 6" RESILIENT BASE.
- NEW ELECTRICAL PANEL, REFER TO ELECTRICAL DRAWINGS.
- NEW DOOR WALL STOP.
- NEW SEMI-RECESSED FIRE EXTINGUISHER CABINET.
- NEW CORNER GUARD.
- NEW WALL-MOUNT SERVICE SINK & FAUCET.
- NEW 3-COMPARTMENT SINK & FAUCET.
- NEW DOOR WALL STOP.
- NEW EXIT SIGNAGE, PER E1/A-10.2.
- NEW ROOM SIGNAGE, PER B2/A-10.2.
- NEW PLASTER CONTROL JOINT.
- NEW SURFACE-MOUNTED PAPER TOWEL DISPENSER.
- NEW CERAMIC FLOOR TILE.
- DEMOLISH (E) ALUMINUM STOREFRONT WINDOW AND DOORS.
- EXISTING ROOFING AND FASCIA TO REMAIN; PROTECT IN PLACE THROUGH ALL PHASES OF CONSTRUCTION.
- EXISTING MASONRY WALL, PAINTED.
- NEW CERAMIC WALL TILE.
- NEW INSULATION.
- NEW PROGRAMMABLE THERMOSTAT - HONEYWELL T7350A
- INFILL WALL FRAMING PER D1/A-10.0.
- SOFFIT FRAMING: 2x6 @ 24" O.C. W/ SIMPSON LUS HANGER TO CH4x6x6 HEADER.
- 2x CROSS BRACING, BOTH DIRECTIONS.

DETAIL  
SCALE: NONE

E5

STORAGE INTERIOR ELEVATION

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

E3

STORAGE INTERIOR ELEVATION

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

E1

DETAIL  
SCALE: NONE

D5

STORAGE INTERIOR ELEVATION

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

D3

STORAGE INTERIOR ELEVATION

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

D1

DETAIL  
SCALE: NONE

C5

SHOPPING INTERIOR ELEVATION

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

C4

SHOPPING INTERIOR ELEVATION

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

C3

SHOPPING INTERIOR ELEVATION

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

C2

SHOPPING INTERIOR ELEVATION

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

C1

Consultant

Key Plan

Agency Approval

FILE NO. 37-C1

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APPL. # 04-116532  
AC FLS TB SS  
DATE NOV 8 2017

Project Title:

PALOMAR COLLEGE

**PALOMAR COLLEGE**  
Learning for Success

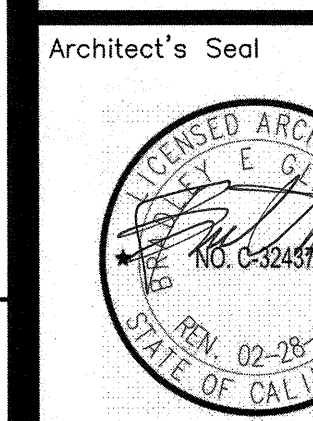
ANITA & STAN MAAG  
FOOD & NUTRITION CENTER

PALOMAR COLLEGE  
1140 W. MISSION RD.  
SAN MARCOS, CA 92069-1487

No.	Description	Date	No.	Description	Date

Drawing Title:

**ELEVATIONS  
& BLDG SECTION**

Architect's Seal  


Designed:  
MB  
Drawn:  
JR/MM  
QAQC:  
BG  
Date:  
10-31-2017  
Project No.  
5015022  
Scale:  
AS NOTED  
Drawing No.  
**A-6.0**

BUILDING SECTION

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

A3

DEMOLITION EXTERIOR ELEVATION

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

A1



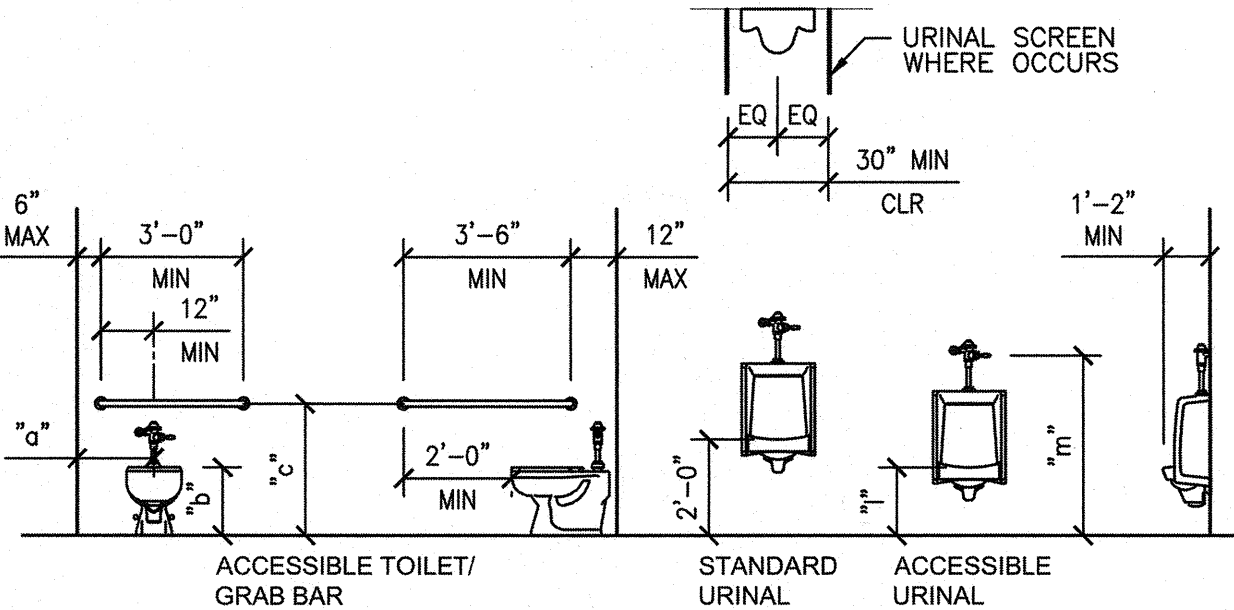
ALTERNATIVE DIMENSIONS IN INCHES	A	E	K	FED
a Toilet centering from wall	19	12	12	12-26
b Toilet seat height / dimensions to top of seat	17-19	15	11-12	11-17
c Grab bar height (centerline)	33	27	20-22	25-27
d Toilet paper above floor (centerline)	20	-	-	14-19
e Toilet paper in front of toilet	12 max	6 max	6 max	-
f Napkin disposal in front of toilet	12 max	12 max	12 max	-
g Dispenser height	40 max	36 max	30 max	-
h Mirror height (to bottom of glass)	40 max	34 max	28 max	34 max
i Lavatory / sink top height	34 max	29 max	24 max	31 max
j Lavatory apron clearance	29 min	-	-	24 min*
k Lavatory / sink knee clearance	27 min	24 min	19 min	24 min*
l Urinal top height	17 max	15 max	13 min	-
m Urinal, toilet flush handle height	44 max	36 max	32 max	36 max
n Drinking fountain bubbler height	36 max	30 max	30 max	30 max
o Drinking fountain knee clearance	27 min	24 min	22 min	-

NOTE:  
NO ADAAG REQUIREMENT IF ELEMENT IS USED PRIMARILY BY CHILDREN AGES 5 AND YOUNGER AND IF CLEAR FLOOR AND PARALLEL APPROACH IS PROVIDED.

## DIMENSIONS FOR ACCESSIBILITY REQUIREMENTS

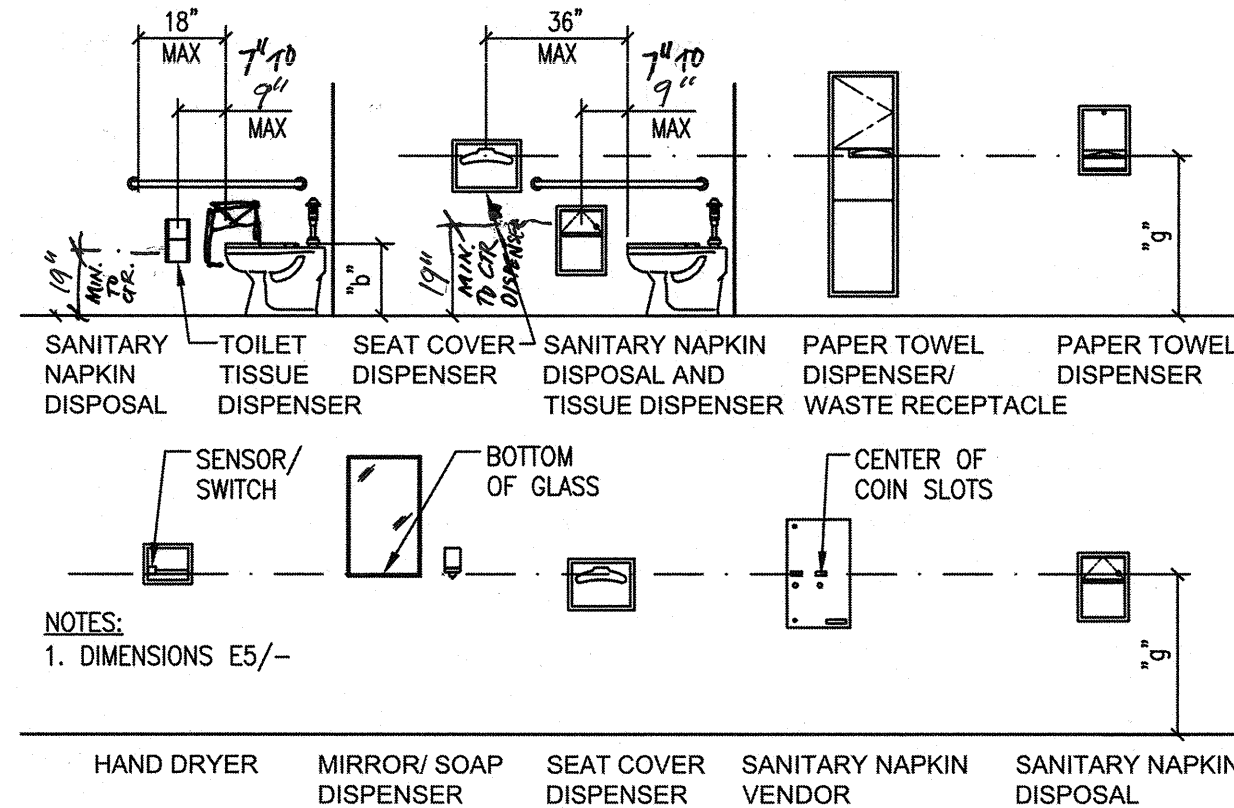
E5

- NOTES:  
1. DIMENSIONS E5/-  
2. FLUSH VALVE TO BE LOCATED TO THE WIDE SIDE OF COMPARTMENT



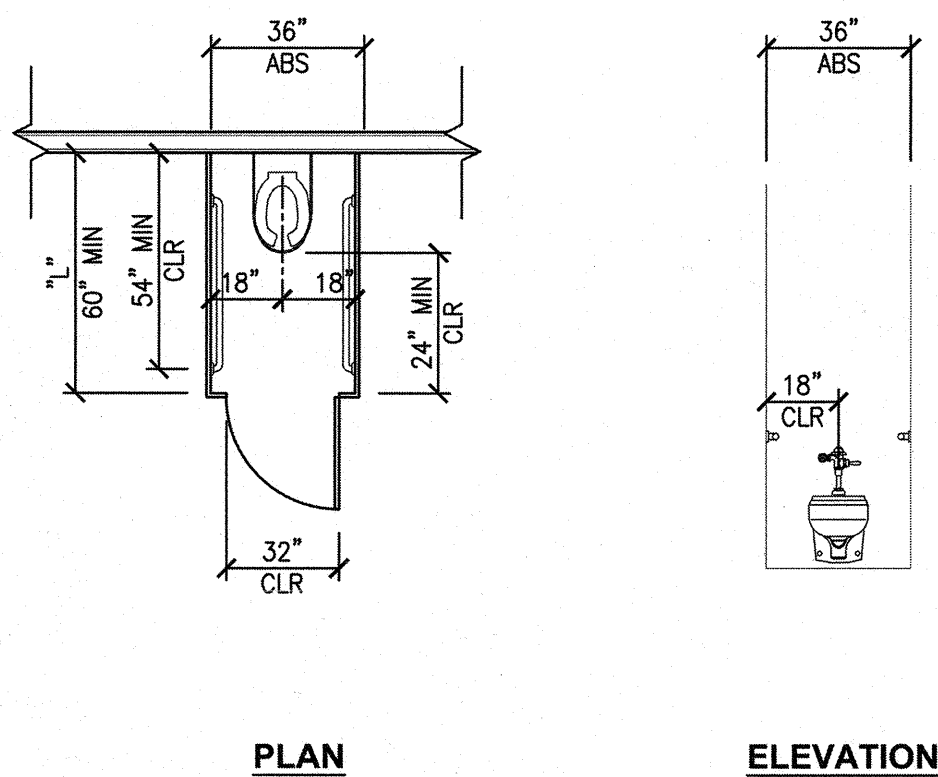
## PLUMBING FIXTURES & ACCESSORIES

D5



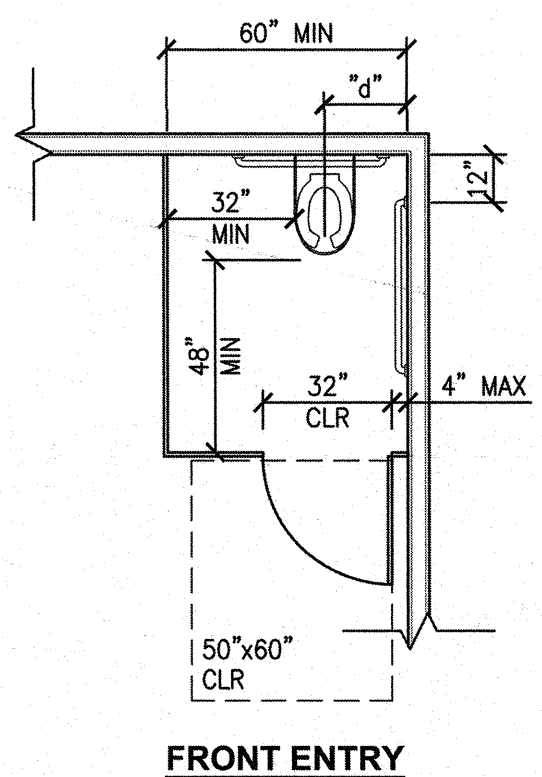
## PLUMBING FIXTURES & ACCESSORIES

C5



## SEMI-AMBLANT TOILET STALL

B5

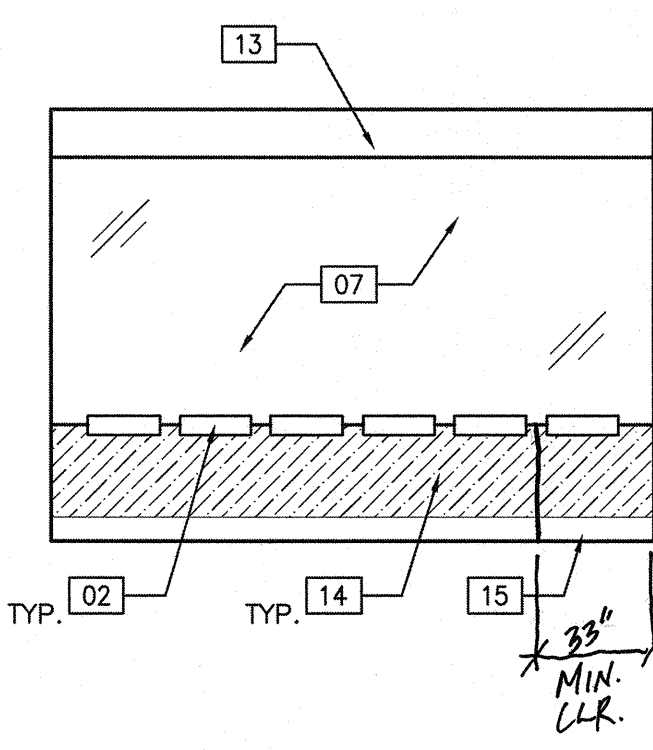


## ACCESSIBLE STALL

A3

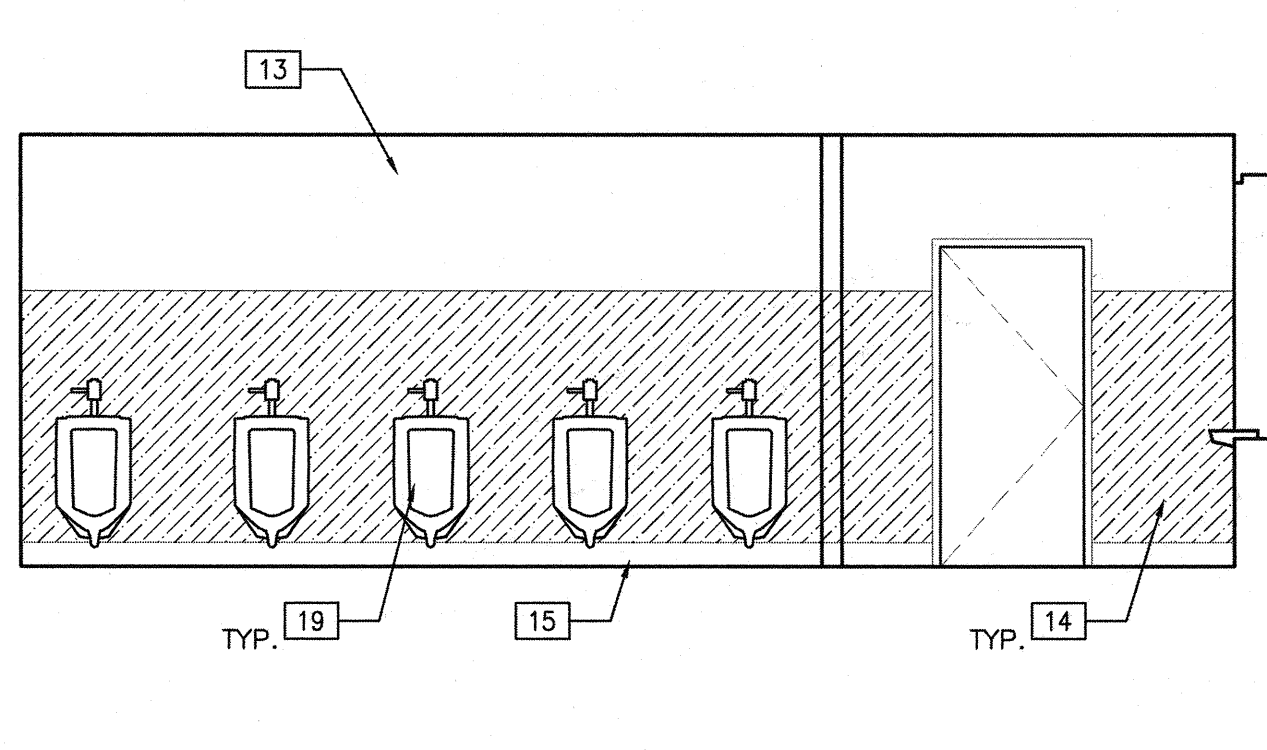
## FEMALE TOILET - SOUTH ELEVATION

E3



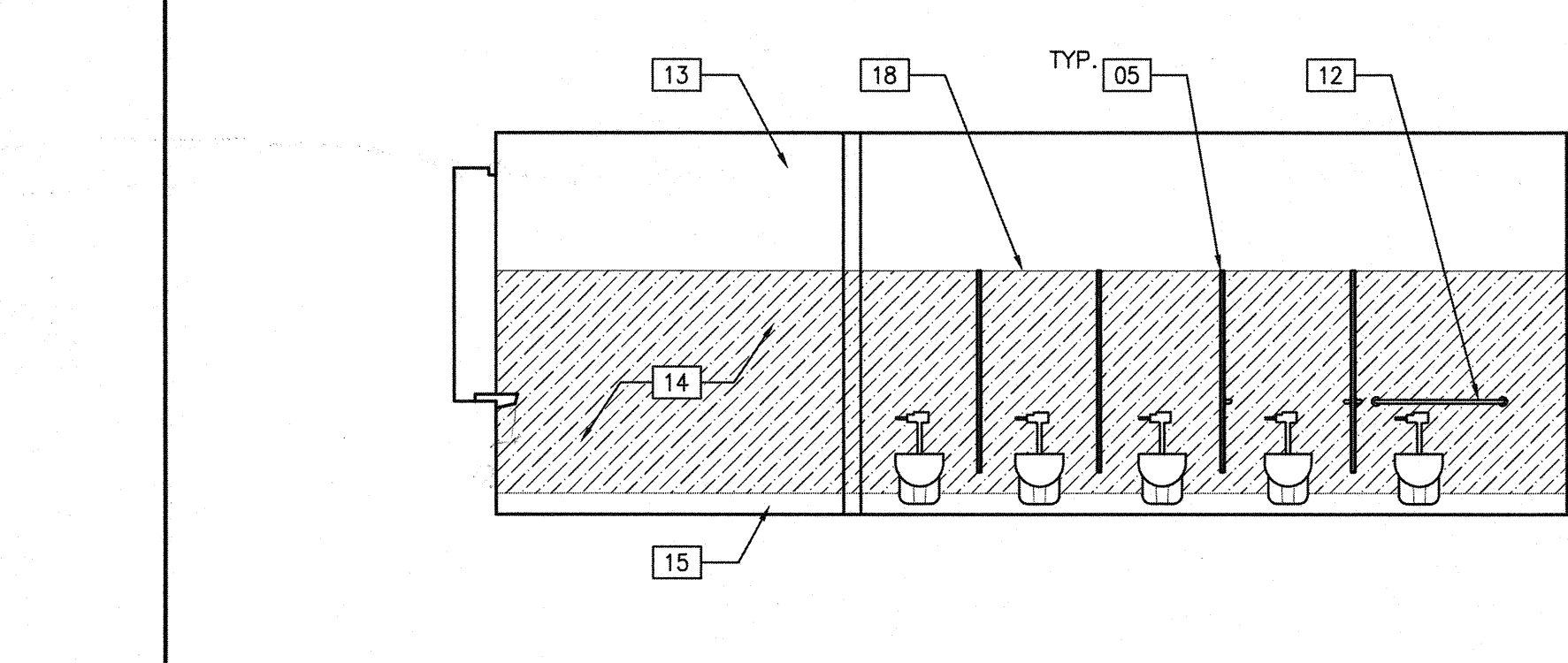
## MALE TOILET - SOUTH ELEVATION

D2



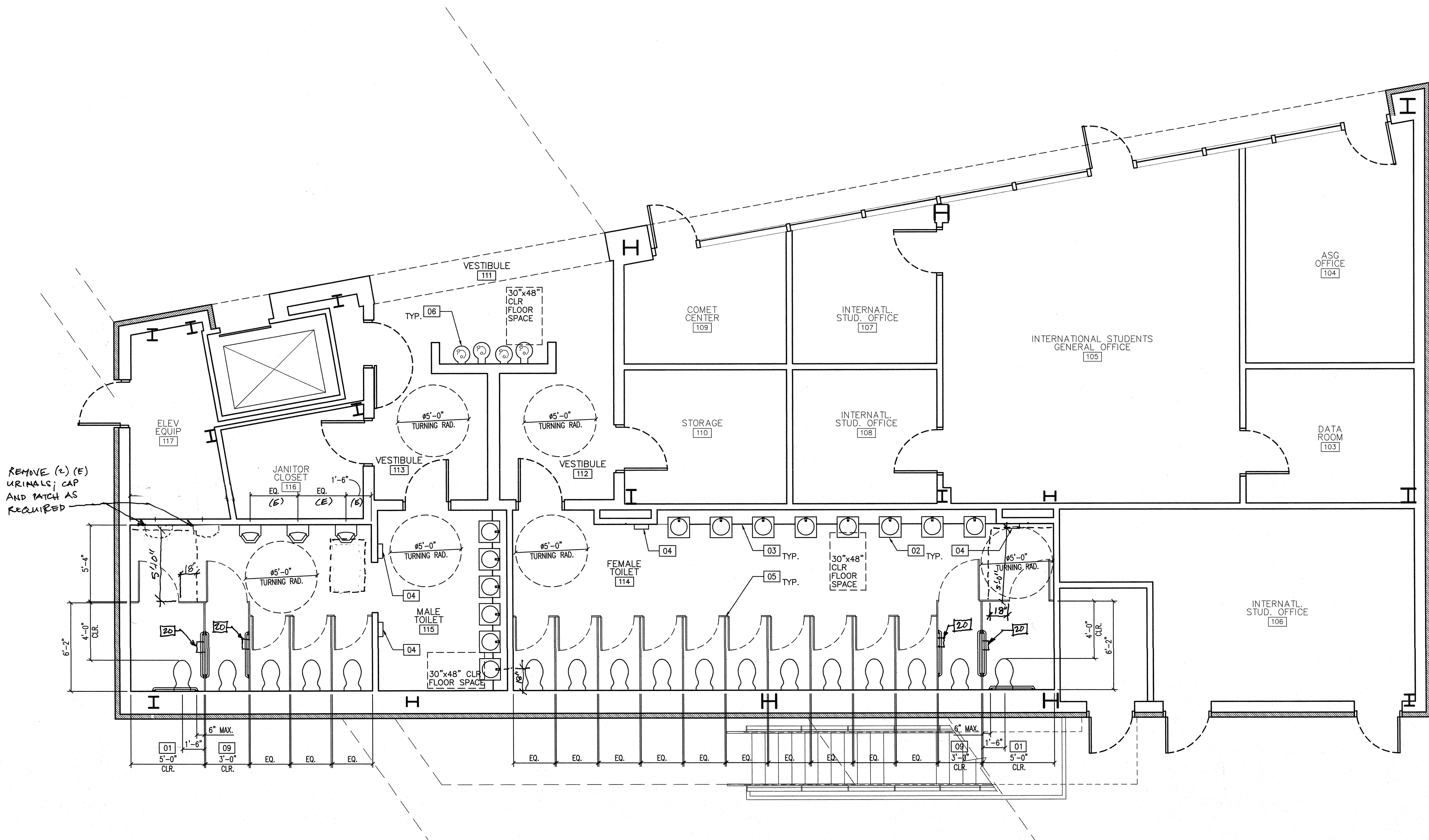
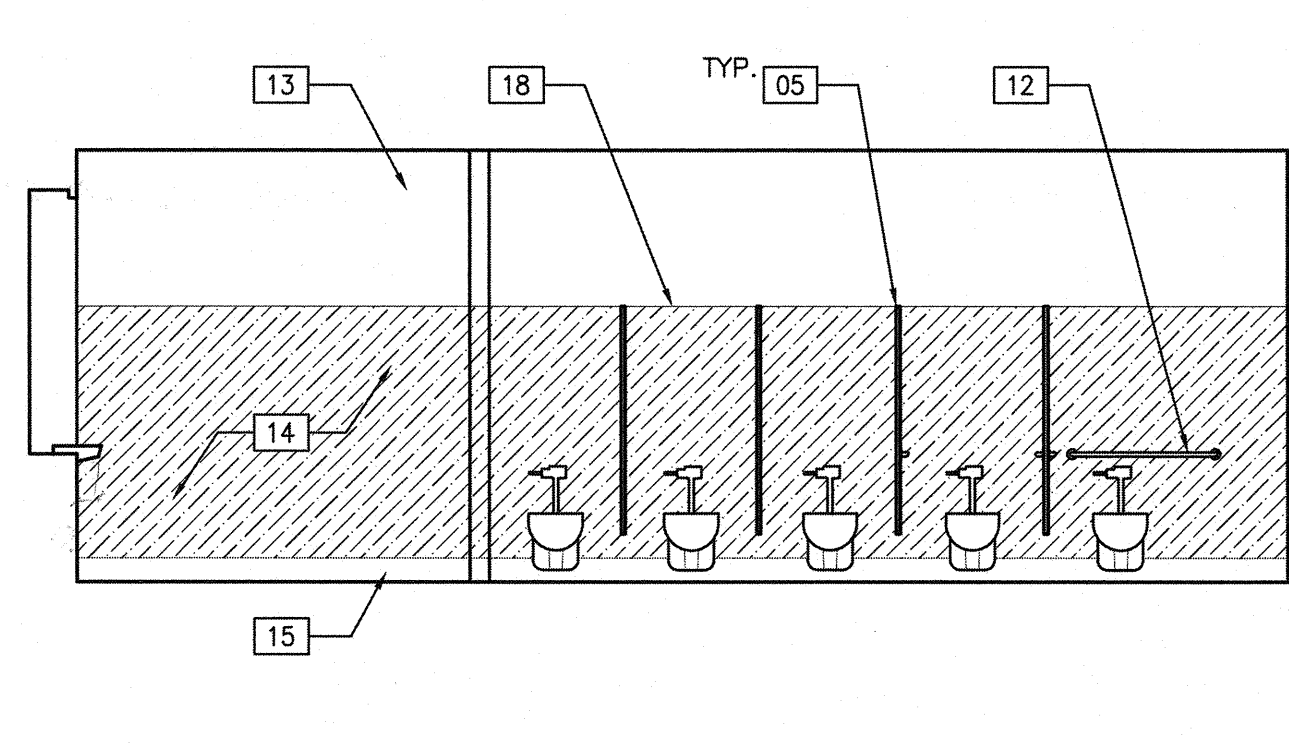
## FEMALE TOILET - NORTH ELEVATION

E1



## MALE TOILET - NORTH ELEVATION

D1



## ACCESSIBLE RESTROOMS & DRINKING FOUNTAINS - EXISTING

A1

HMC Architects

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

## ACCESSIBLE RESTROOM KEYNOTES

- (E) ACCESSIBLE TOILET STALL; REF A5/-
- (E) SINK; REF B3/A-10.2; **MODIFY TO PROVIDE REQUIRED TOE SPACE**
- (E) SHELF
- (E) PAPER TOWEL DISPENSER/DISPOSAL
- (E) CEILING HUNG TOILET PARTITION
- (E) DRINKING FOUNTAIN W/ REMOTE CHILLER; REF D4/A-10.2
- (E) MIRROR
- (E) SSTL SINK ENCLOSURE AT ACCESSIBLE SINK
- (E) SEMI-AMBLANT STALL; REF B5/-
- NOT USED
- NOT USED
- (E) GRAB BAR (4) TOILET PAPER DISPENSERS; RELOCATE TOILET PAPER DISPENSER AS REQUIRED; REF C5/-
- (E) PAINTED GYP BD WALL FINISH
- (E) STAINLESS STEEL PANEL
- (E) 1/2" THK PRECAST CONCRETE BASE
- NOT USED
- (E) PAINTED STUCCO FINISH
- (E) T.D. TOILET PARTITION & SSTL PANELS, TYP.
- (E) URINAL; REF D5/-
- (E) TOILET PAPER DISPENSER; RELOCATE AS REQUIRED; REF C5/-
- (E) 3/8" STUCCO ON DUROCK ON BOTH SIDES, 6" METAL STUDS @ 16" O.C.

Consultant

Key Plan

Agency Approval

FILE NO. 37-C1  
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AC: *[Signature]* FLS: *[Signature]* SS: *[Signature]*  
DATE: NOV 08 2017

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PALOMAR COLLEGE  
ANITA & STAN MAAG  
FOOD & NUTRITION CENTER  
PALOMAR COLLEGE  
1140 W. MISSION RD.  
SAN MARCOS, CA 92069-1487

No.	Description	Date	No.	Description	Date

Drawing Title:

## ACCESSIBLE RESTROOMS & DRINKING FOUNTAIN

Architect's Seal	Designed: MB	Project No. 5015022
	Drawn: JR/MM	Scale: AS NOTED
	QA/QC: BG	Drawing No. A-6.1
	Date: 10-31-2017	

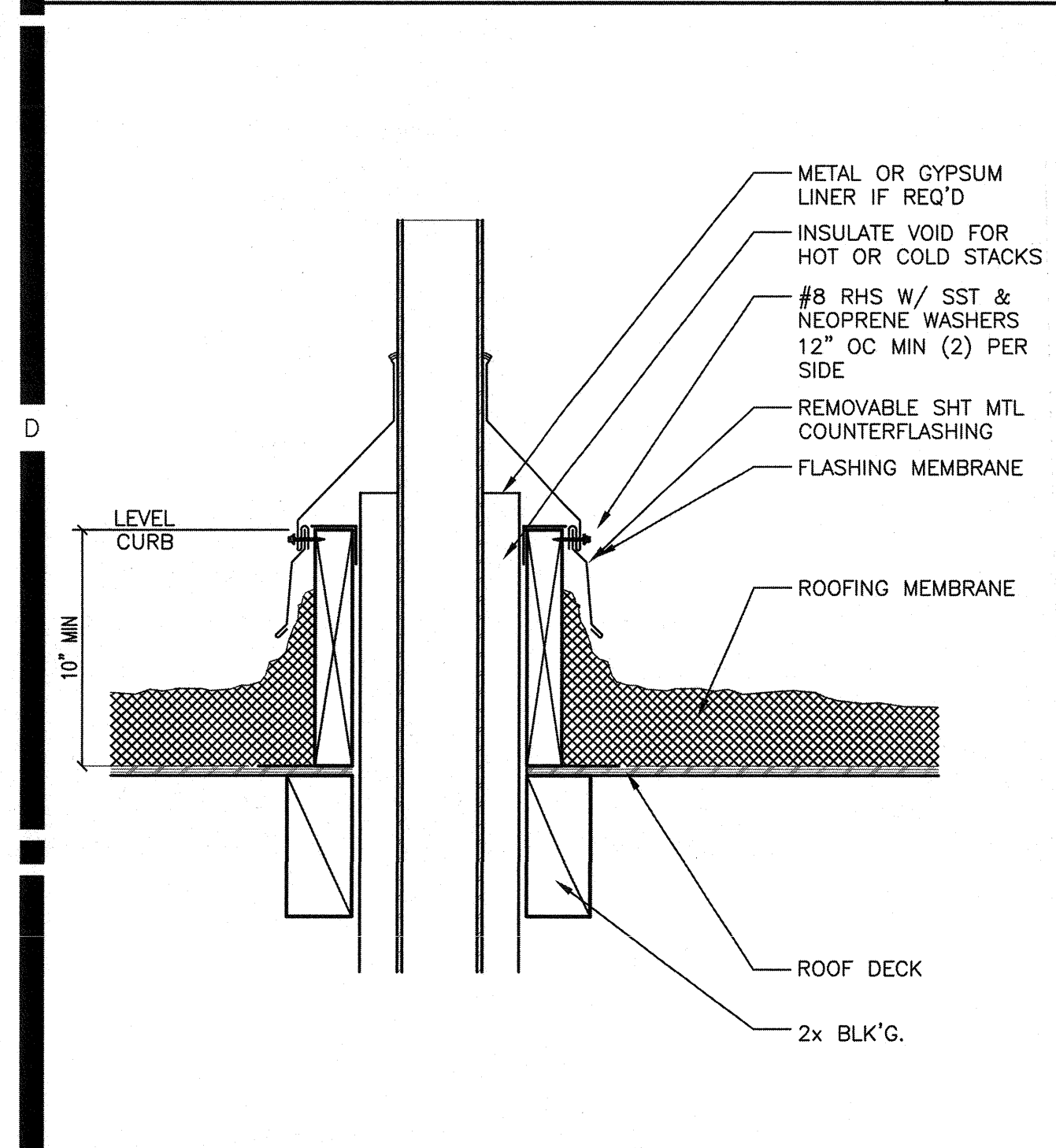


BACKING DETAIL  
SCALE: 1 1/2" = 1'-0"


TYPICAL REINFORCING BAR DETAIL

SCALE: NONE

3	TYPICAL SLAB ON GRADE PATCHING / INFILL DETAIL	E1
	SCALE: 1 1/2"=1'-0"	



2" GALV STL WALL BRACKET @ 2 FT O.C. W/ (3) #8-1/2" WS, EA SIDE, MIN. (3) PER FRAME, REF E5/A-10.0 FOR BACKING

DRYWALL OR TILE WALL, WHERE OCCURS

CUSTOM SHELVING, 2x2 TUBE STL FRAME

$\pm 1/2" \pm 1/8"$   
WALL & BRACKET  
1/2"  $\pm 1/8"$

CUSTOM SHELVING ANCHOR DETAIL

D4

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

DOOR FRAME BEYOND

TOP OF CONC SLAB

DOOR

**LUMBER:**

1. ALL STRUCTURAL LUMBER SHALL BE DOUGLAS FIR OF THE GRADES INDICATED NOTHERWISE NOTED:  
SILL PLATES: DOUGLAS FIR PRESSURE TREATED (NO. 2)

STRUCTURAL FRAMING:

2" - 4" THICK 2" - 4" WIDE NO. 1  
2" - 4" THICK 5" AND WIDER NO. 2  
BEAMS 5" & THICKER: SELECT STRUCT.

POSTS AND TIMBERS: 5" X 5" & LARGER SELECT STRUCT.

2. ALL STRUCTURAL LUMBER SHALL BE GRADED IN ACCORDANCE WITH THE STANDARDS OF THE WEST COAST LUMBER INSPECTION BUREAU.

3. ALL WOOD BEARING ON CONCRETE SHALL BE PRESSURE TREATED DOUGLAS FIR AS OUTLINED IN C.B.C. SECTION 2303.1.8.

4. BOLTS SHALL BE ASTM A-307. PROVIDE STANDARD CUT WASHER BETWEEN BOLT HEADS AND NUTS AND THE WOOD. WHERE BOLTS ARE IN TENSION PROVIDE MALLEABLE IRON WASHERS.

5. STRUCTURAL LUMBER MEMBERS SHALL NOT BE CUT OR NOTCHED FOR PIPES OR CONDUITS ETC. UNLESS SPECIFICALLY DETAILED OR NOTED.

6. 2" SOLID BLOCKING SHALL BE PROVIDED BETWEEN JOISTS AND RAFTERS AT ALL BEARING SUPPORTS.

7. BORE HOLES FOR BOLTS 1/16" LARGER THAN THE NOMINAL BOLT DIMENSION.

8. BORED HOLES EXCEEDING ONE THIRD OF THE WIDTH OF THE MEMBER BEING PENETRATED SHALL NOT BE PLACED IN STUD JOISTS. HOLES NOT EXCEEDING ONE THIRD OF THE WIDTH SHALL BE NEATLY BORED AND LOCATED IN THE CENTER OF THE MEMBER BEING PENETRATED.

9. REINFORCE ALL BOLTS PRIOR TO COVERING, AND MAKING THE BOLTED CONNECTION INACCESSIBLE.

10. ALL COMMON NAILS PER ASTM FIRST AND ARE TO BE GALVANIZED.

11. INSTALL WALL BRACING ON ALL STUD WALLS NOT COVERED WITH PLYWOOD PER C.B.C. SECTION 2308.3.3

12. UNTIL SCHEDULE SEE 2/SO.3 FOR STUD WALL FRAMING (U.N.O. ON PLAN)

<u>INTEND. SIZE AT BEARING WALL</u>	<u>INTEND. SIZE AT NON BEARING WALL</u>
(OPENING WIDTH)	(BUILT UP MEMBER)
3" - 0" or less	2 - 2X4
3" - 0" to 6" - 0"	2 - 2X6
6" - 0" to 8" - 0"	2 - 2X8

13. ALL NAILS IN PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED.

14. TREATED WOOD SURFACES, WHEN CUT, NOTCHED SHALL BE TREATED WITH A PRESERVATIVE AND APPROVED BY THE ARCHITECT AND THE ENFORCEMENT AGENCY ON ALL EXPOSED SURFACES FROM WHICH PRESERVATIVE TREATMENT HAS BEEN REMOVED.

**NAILING SCHEDULE:**

1. JOISTS AND RAFTERS TO BEARINGS, TONIAL EA SIDE	3-8d
2. STUDS TO SILE PLATE OR BEARING, TONIAL EA SIDE	2-8d
3. DOUBLE TOP PLATE TO STUDS	2-16d
4. TOP PLATES, ENDS AND INTERSECTIONS	2-16d
5. BLOCKING BETWEEN STUDS, EA END:	FACENAIL
	TONIAL
	2-10d
6. BLOCKING BETWEEN JOISTS OR RAFTERS, EA. END:	FACENAIL
	TONIAL
	2-10d

ROOF PENETRATION

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

D5

7. MULTIPLE STUDS 16d @12" O.C.  
8. BUILT-UP BEAMS 20d @ 32" O.C. TOP & BOTTOM, STAGGERED  
2-20d AT ENDS, AT EA. "PLUCE"  
9. BUILT-UP CORNER STUDS 16d @ 12" O.C.  
10. LEFT IN BRACING, EA END: 1/8" 3-8"  
1/8" 4-8"  
1/8" 5-8"  
1/8" 6-8"  
AT INTERMEDIATE STUDS: 1/8" 8-8"  
1/8" 9-8"  
1/8" 10-8"  
11. RIBBONS TO STUDS 1X RIBBON 2-8d  
2X RIBBON 2-16d  
12. MACHINE APPLIED NAILING: USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOB SITE  
DEMONSTRATION AND THE APPROVAL OF THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE  
ENFORCEMENT AGENCY. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. IF THE  
NAIL HEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND-HELD HAMMER, OR IF  
MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED  
UNSATISFACTORY AND MACHINE NAILING SHALL BE DISCONTINUED.  
13. PRE-DRILL PILOT HOLES TO ALL MEMBERS FOR NAILS 20d OR LARGER.

Diagram illustrating the cross-section of a wall assembly, showing the following components and dimensions:

- 3-16d (Three 16d nails)
- ACOUSTIC INSULATION AT NON RATED WALLS
- 2x3 CONT. EA. SIDE
- W/ 1-16d (With one 16d nail)
- 2x PLATES
- 5/8" TYPE "X" GYP BD., TYP. U.N.O. (5/8 inch Type "X" Gypsum Board, Typical Unfinished)
- 1/2" CR (1/2 inch CR)

Diagram illustrating the components of a coiling door assembly:

- (E) ROOF FRAMING
- (E) HEADER
- SUSPENDED CLG
- HAND CHAIN
- DOOR GUIDE
- COILING DOOR

**INTERIOR DOOR THRESHOLD**

**C4**

SCALE: 6"=1'-0"

EXTERIOR DOOR THRESHOLD

SCALE: 6"=1'-0"

FASCIA MOUNTING CHANNEL

PLASTER O/ METAL LATH  
O/ PLYWD

MIN. 1/2"  $\phi$  LAG BOLT  
@ 16" O.C., TYP. EA.  
SIDE OF Door

(E) 6X POST

FRP O/ GYP BD

DOOR GUIDE

<b>B</b>	<h2 style="margin: 0;">GENERAL FRAMING NOTES</h2>	<b>C2</b>
SCALE: NONE		

NOTE:  
REFER TO (D1/A10.0) & (C2/A10.0)  
FOR ADDITIONAL REQUIREMENTS.

**PARALLEL TO FRAMING**

EXISTING FRAMING, VERIFY IN FIELD

2x WD STUD W/ FULL-HT. ACOUSTICAL INSULATION AT ALL INTERIOR WALL, U.N.O.

2x BLOCKING TO MATCH DEPTH OF EXISTING JOIST

2x3 CONT. EA. SIDE W/ 1-16d

1/2" GR

1/2" GR

**PERPENDICULAR TO FRAMING**

2x PLATES

3/4" TYPE "X" GYP BD. TYP. U.N.O.

2x WD STUD W/ FULL-HT. ACOUSTICAL INSULATION AT ALL INTERIOR WALL, U.N.O.

OVERHEAD COILING DOOR HEAD DETAIL	B5
SCALE: 1 1/2"=1'-0"	


OVERHEAD COILING DOOR JAMB	B3
SCALE: 3"=1'-0"	

WALL PARTITION CONNECTION	B1
SCALE: 1 1/2" = 1'-0"	

A detailed cross-section diagram of a door assembly. The diagram shows a door with a frame, set against a wall. Key components and dimensions are labeled:

- 3"**: Dimension for the wall thickness.
- 1/2" MIN**: Minimum dimension for the thermal insulation layer.
- THERMAL INSULATION**: Label for the insulation layer.
- GYP BD**: Label for the gypsum board.
- STUD FRAMING**: Label for the framing within the wall.
- 62/A-10.0**: Label for the steel frame.
- STEEL FRAME**: Label for the frame structure.
- FRAME ANCHOR**: Label for the anchor connecting the frame to the wall.
- NOTE:** A note box containing the text: "FRAME DEPTH TO BE DETERMINED BY OVERALL WALL THICKNESS (TYP)".
- DOOR**: Label for the door leaf.

[illegible]

This technical drawing illustrates the cross-section of a door frame assembly. The components are labeled as follows:

- Plywood Sheathing Where Occurs**: Indicated by a dashed circle around the door panel.
- Portland Cement Plaster**: Located on the exterior wall surface.
- Casing Bead w/ Weep Holes**: A decorative trim piece at the top of the door opening.
- Joint Sealer**: Applied between the casing bead and the wall.
- SHT MTL DRIP FLASHING**: A metal flashing strip installed below the casing bead to prevent water infiltration.
- INSULATION**: Fills the cavity above the door frame.
- INTERIOR FINISH**: The finished interior wall surface.
- STUD FRAMING (2x/A-10.0)**: Vertical framing members supporting the insulation and finish.
- FRAME ANCHOR**: Connects the steel frame to the masonry wall.
- STEEL FRAME**: The main structural support for the door.

The diagram includes several dimension lines and callouts:

- L**: Overall height from the bottom of the door frame to the top of the insulation.
- L MIN**: Minimum required height for the insulation layer.
- F**: Depth of the frame anchor into the wall.
- 2x2 (TYP)**: Dimension for the stud framing.
- 2x6 (TYP)**: Dimension for the vertical wall section.
- 2x8 (TYP)**: Dimension for the horizontal wall section.
- 2x10 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x12 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x14 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x16 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x18 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x20 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x22 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x24 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x26 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x28 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x30 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x32 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x34 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x36 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x38 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x40 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x42 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x44 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x46 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x48 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x50 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x52 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x54 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x56 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x58 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x60 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x62 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x64 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x66 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x68 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x70 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x72 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x74 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x76 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x78 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x80 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x82 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x84 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x86 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x88 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x90 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x92 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x94 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x96 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x98 (TYP)**: Dimension for the horizontal wall section above the door.
- 2x100 (TYP)**: Dimension for the horizontal wall section above the door.

A note specifies: **NOTE: FRAME DEPTH TO BE DETERMINED BY OVERALL WALL THICKNESS (TYP)**.

Architectural section drawing of a wall assembly. The drawing shows a vertical cross-section of a wall. The wall consists of a central core of acoustic insulation, which is flanked by vertical wooden studs (WD STUDS) on both sides. The insulation is labeled 'ACOUSTIC INSULATION' and the studs are labeled 'WD STUDS PER PLANS'. The top of the wall is finished with a 'CLG FIN PER PLAN'. The bottom of the wall is attached to a 'FINISH FLOOR'. A circular detail callout labeled 'A1' and 'A10.0' is shown at the bottom right, indicating a detail view of the floor/wall junction. The drawing includes various lines for structural elements, insulation, and finish surfaces.

ACOUSTICAL INSULATION  
(FULL HEIGHT)

(N) 2x4 P.T. SILL W/ 3" LONG DRIVE PINS @ 24" O.C. MAX.

BASE & FLOORING,  
WHERE OCCURS

CONCRETE SLAB

2x WOOD STUDS  
@ 16" O.C. U.N.O.

5/8" TYPE "X"  
GYP. BD. TYP.

SEALANT & BACKER  
ROD

4

4

HOLLOW FRAME DOOR JAMB AT WALL		A5
SCALE: 3"=1'-0"		

HOLLOW FRAME INTERIOR DOOR JAMB/HEAD	A4
SCALE: 3"=1'-0"	

HOLLOW FRAME EXTERIOR DOOR JAMB/HEAD	A3
SCALE: 3"=1'-0"	

3	TYPICAL INTERIOR WALL SECTION	A2
	SCALE: 1 1/2"=1'-0"	

INTERIOR WALL BASE CONNECTION		A1
SCALE: 3"= 1'-0"		







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SM

NOTES:  
1. LOCATE PER DETAIL A1/A-10.2  
2. BRAILLE B1/A-10.2

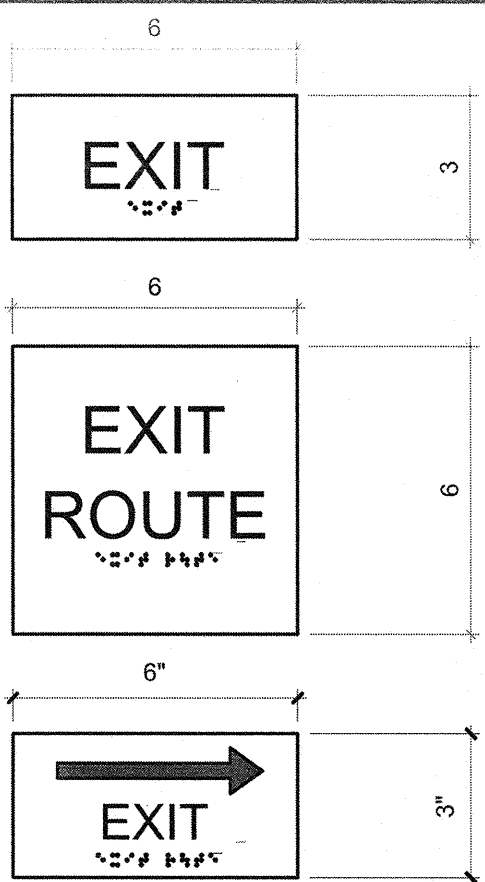
SIZE:  
AS SHOWN WITH 1" HIGH TEXT

MATERIALS:  
1/8" THICK ETCHED PHOTOPOLYMER

GRAPHICS:  
RAISED (MIN 1/32") TEXT WITH CORRESPONDING  
GRADE 2 BRAILLE PER B1/A-10.2

MOUNTING:  
SIGN TO BE MOUNTED 60" FROM THE FINISHED  
FLOOR TO THE VERTICAL CENTER OF THE  
SIGN. SIGN TO BE NO CLOSER THAN 4" AND NO  
FARTHER THAN 12" AWAY FROM THE LATCH  
SIDE OF THE DOOR. SIGN MOUNTED WITH 3M  
BOND TAPE AND SILICON GLUE

COLORS:  
PLATE BACKGROUND COLOR: BRUSHED ALUMINUM ANODIZED  
TEXT COLOR: BLACK



TACTILE EXIT SIGNAGE

SCALE: 3"=1'-0"

E1

NOT USED

SCALE: NONE

E2

NOT USED

SCALE: NONE

E3

NOT USED

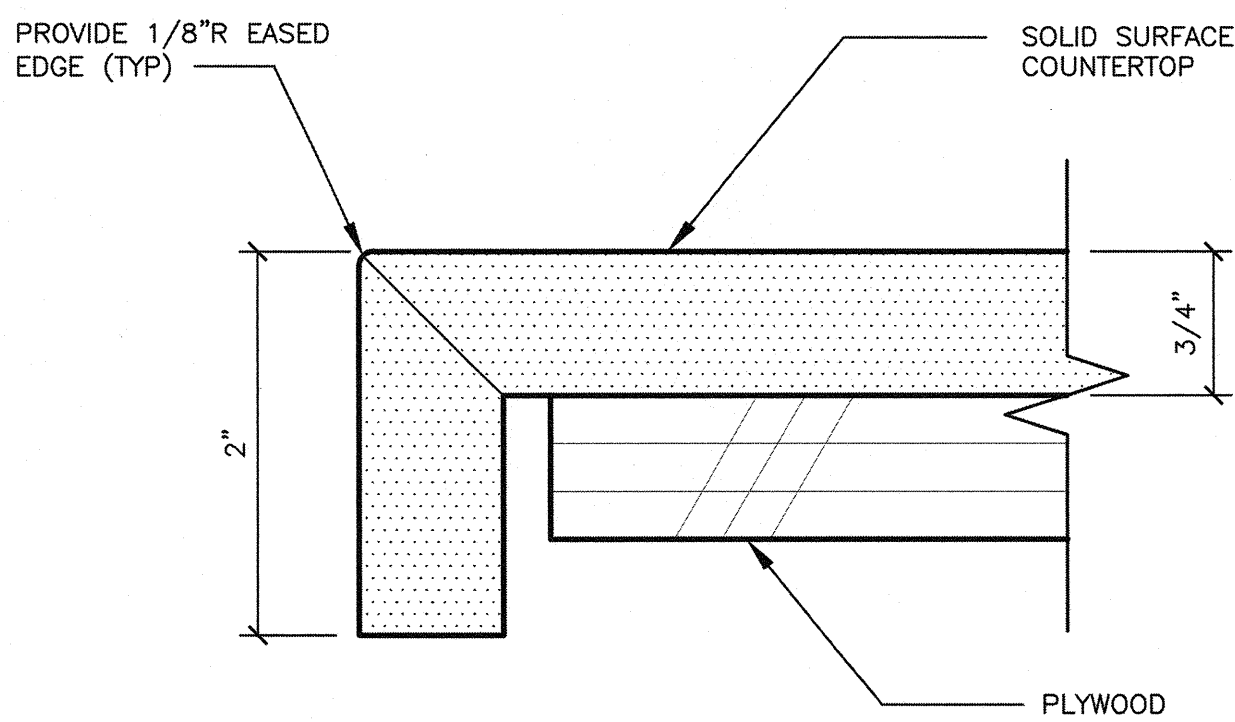
SCALE: NONE

E4

NOT USED

SCALE: NONE

E5



COUNTERTOP EDGE DETAIL

SCALE: FULL

D3

NOT USED

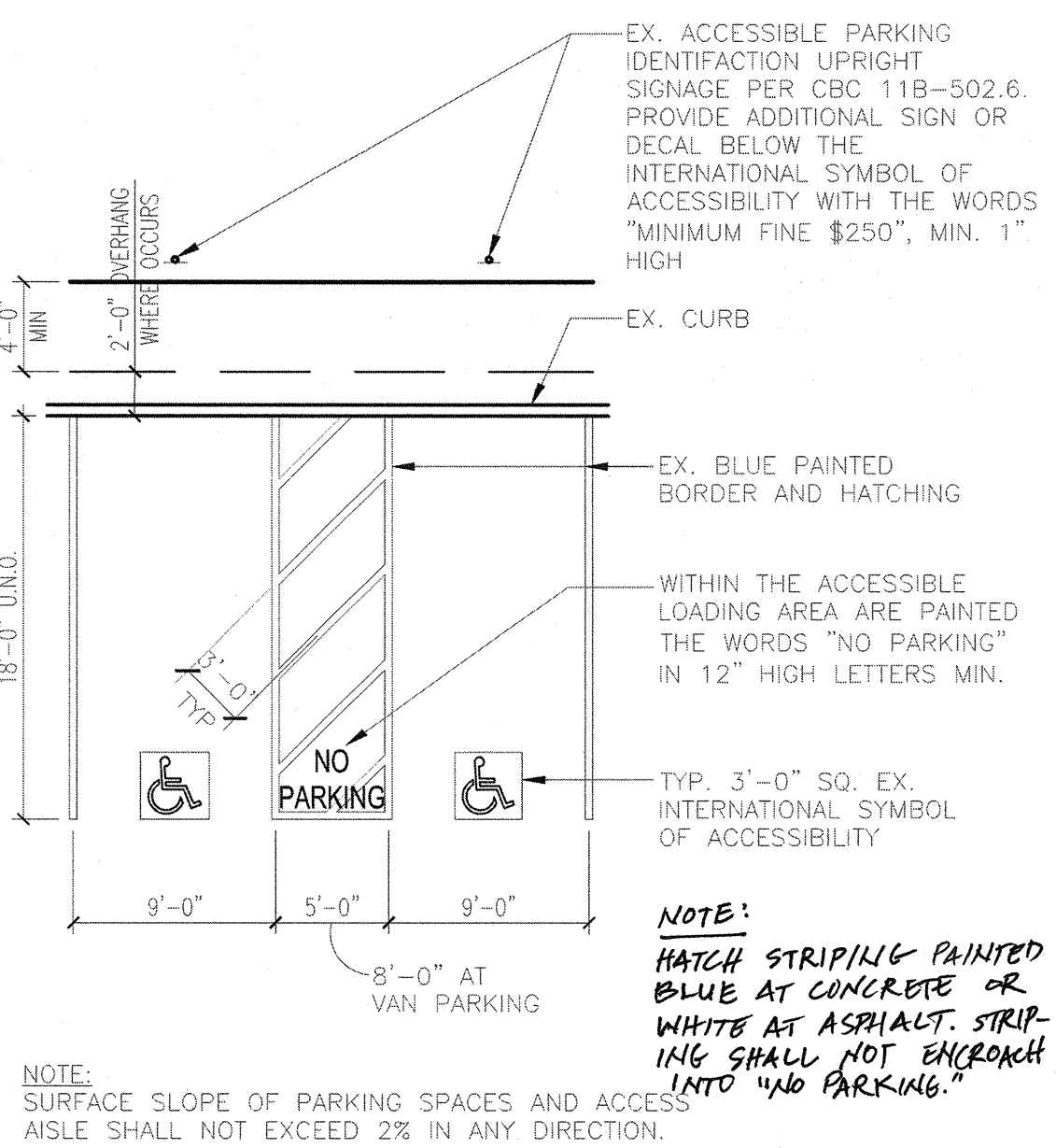
SCALE: NONE

D4

NOT USED

SCALE: NONE

D5



ACCESSIBLE PARKING STALLS - FOR REFERENCE

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

C2

SERVICE COUNTER SECTION

SCALE: 1"=1'-0"

C3

NOT USED

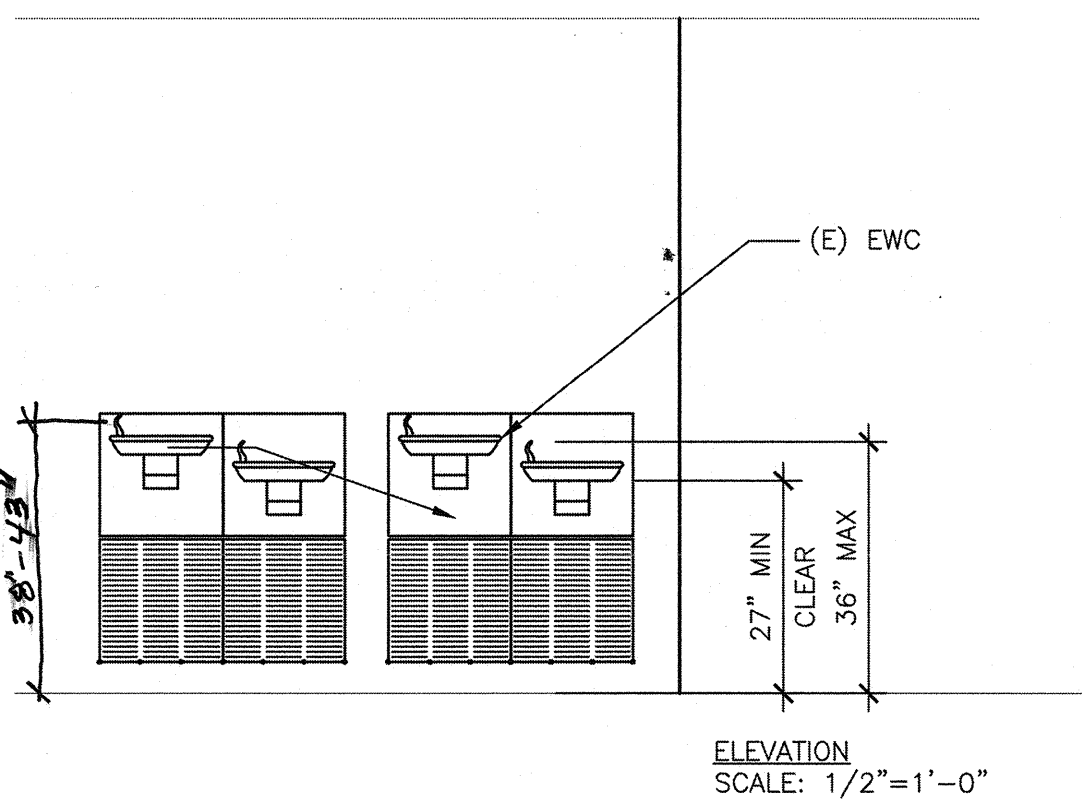
SCALE: NONE

C4

NOT USED

SCALE: NONE

C5



DRINKING FOUNTAIN

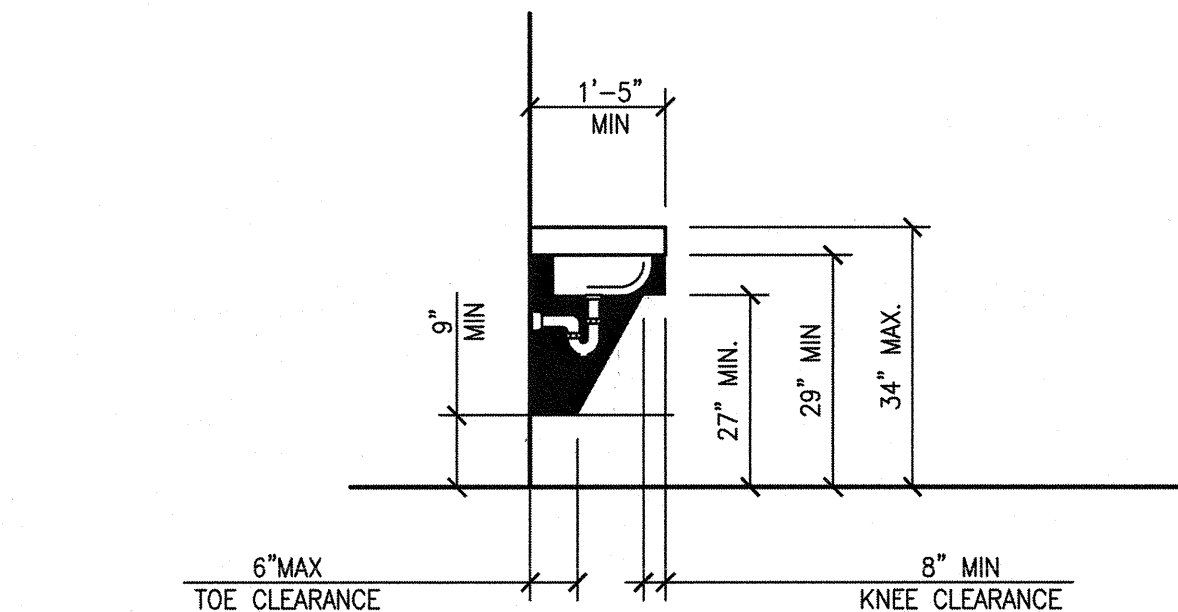
SCALE: 1"=1'-0"

A4

NOT USED

SCALE: NONE

A5



FIRE EXTINGUISHER

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

A3

NOTES:  
1. PROVIDE ONE SIGN WHERE INDICATED ON SCHEDULE AND FLOOR PLANS. ALL  
SIGNED DOORS TO RECEIVE BRAILLE ROOM IDENTIFICATION PER B1/A-10.2  
2. WHERE SIGNAGE IS INSTALLED ON GLASS PROVIDE BLANK SIGNAGE ON  
OPPOSITE SIDE BEING EQUAL SIZE AND COLOR TO MASK ADHESIVE.  
3. LOCATE PER DETAIL A1/A-10.2

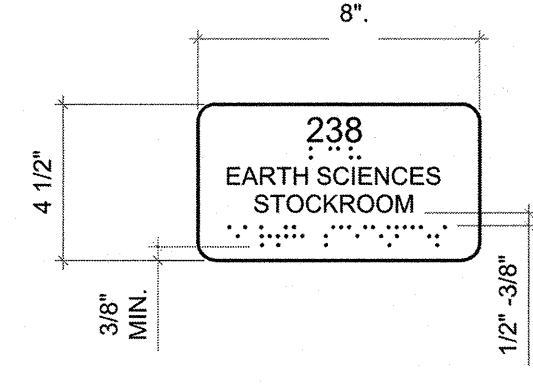
SIZE:  
AS SHOWN WITH 5/8" HIGH TEXT

MATERIALS:  
SEE SPECIFICATIONS

GRAPHICS:  
RAISED (MIN 1/32") TEXT. ROOM NUMBER TO HAVE  
CORRESPONDING GRADE 2 BRAILLE. PER B1/A-10.2

MOUNTING:  
SEE SPECIFICATIONS

COLORS:  
SEE SPECIFICATIONS



TACTILE ROOM IDENTIFICATION

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

B2

ACCESSIBLE SINK

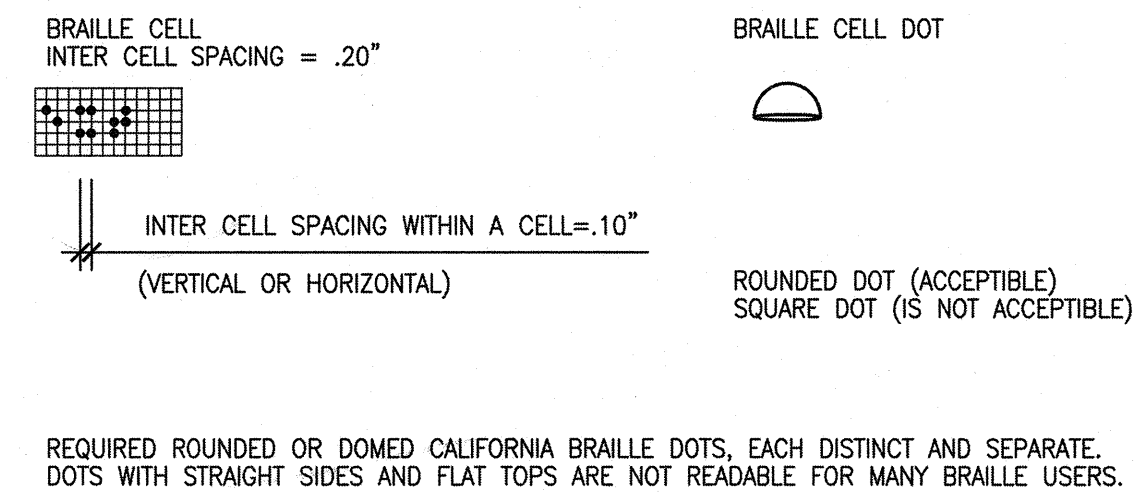
SCALE: 1/2"=1'-0"

B3

NOT USED

SCALE: NONE

B5



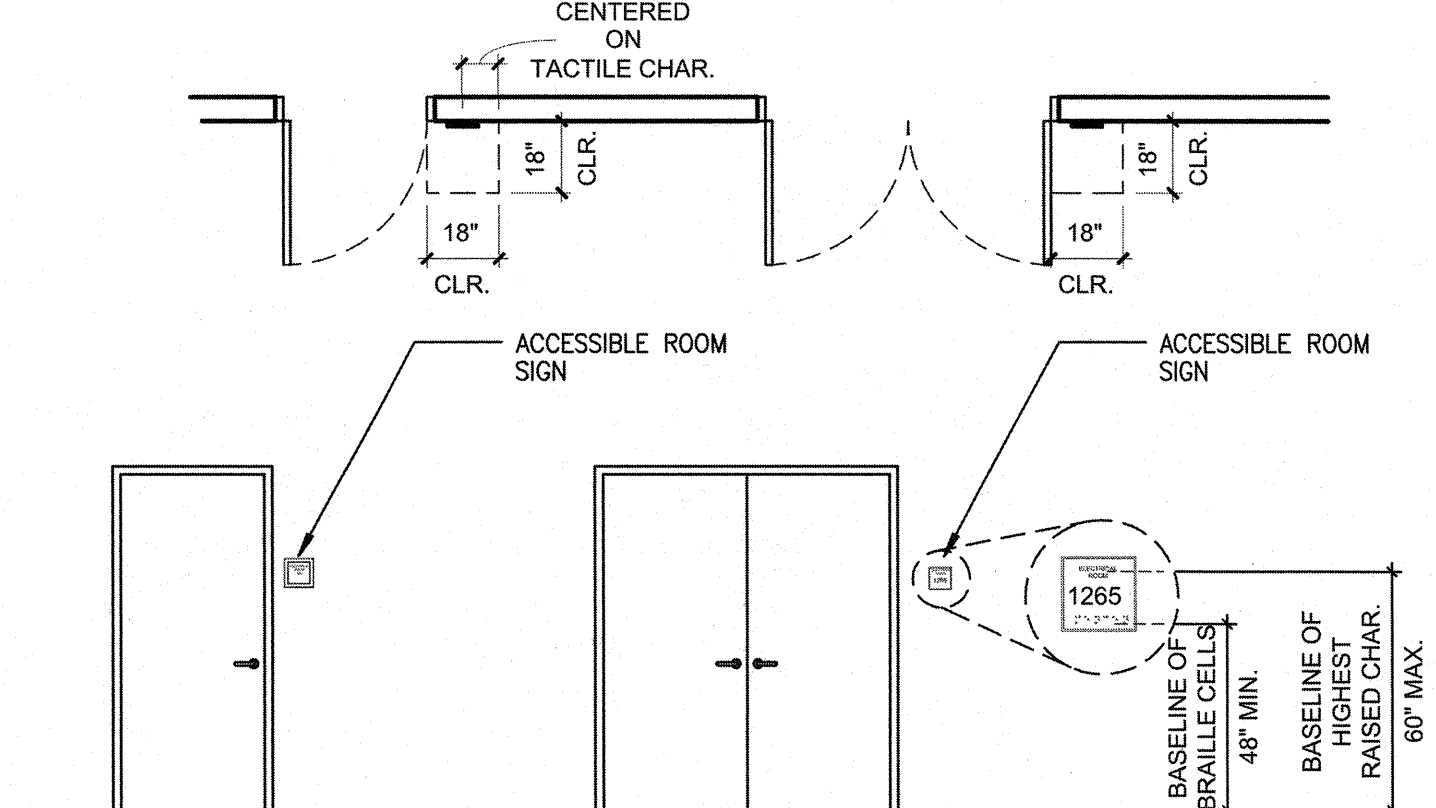
CHARACTER & BRAILLE STANDARDS FOR SIGNAGE

SCALE: 3"=1'-0"

B1

NOTES:  
1. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR.  
WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, SIGNS SHALL BE PLACED ON THE  
NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. WHERE A TACTILE SIGN IS  
PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON  
THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO  
ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR.  
TACTILE CHARACTERS HEIGHT SHALL BE 48" MIN. ABOVE THE FINISH FLOOR TO THE  
BASELINE OF THE LOWEST TACTILE BRAILLE CELLS, AND HIGHEST LINE OF RAISED  
CHARACTERS SHALL BE 60" MAX. ABOVE THE FINISH FLOOR. FOR PAIRS OF DOORS WHERE  
DOOR SWING IS LIMITED TO 90 DEGREE, MOUNT SIGN 8" FROM EDGE OF DOOR. FOR  
PAIRS OF DOORS WHERE DOOR SWING EXCEEDS 90 DEGREES, MOUNT SIGN DOOR WIDTH  
PLUS 9" FROM EDGE OF DOOR. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE  
LOCATED SO THAT A CLEAR FLOOR SPACE OF 18" MIN. BY 18" MIN., CENTERED ON THE  
TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE  
CLOSED POSITION AND 45 DEGREE OPEN POSITION. REFER TO CBC 11B-703.4.2

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



DOOR SIGNAGE LOCATIONS

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

A1

Consultant

Key Plan

Agency Approval

Project Title:

PALOMAR COLLEGE  
ANITA & STAN MAAG  
FOOD & NUTRITION CENTER

PALOMAR COLLEGE  
1140 W. MISSION RD.  
SAN MARCOS, CA 92069-1487

No.	Description	Date	No.	Description	Date

Drawing Title: MISCELLANEOUS DETAILS

Architect's Seal	Designed: MB	Project No. 5015022
	Drawn: JR/MM	Scale: AS NOTED
	QAQC: BG	Drawing No. A-10.2
	Date: 10-31-2017	



AIR DISTRIBUTION SCHEDULE						
SYMBOL	TYPE	NECK SIZE	CFM RANGE	MODEL	ACCESSORIES	STYLE
(A)	SUPPLY AIR	8x8	0-230	FOR INSTALLATION IN LAY-IN CEILING. PRICE PDM PERFORATED FACE.	TITUS PMC	MODULAR CORE
		10x10	231-350			
		12x12	351-500			
		14x14	501-680			
		16x16	681-940			
(B)	RETURN, EXHAUST, OR TRANSFER AIR GRILLE	8x8	200	FOR INSTALLATION IN LAY-IN CEILING. PRICE PDM PERFORATED FACE.	TITUS PAR	RETURN, EXHAUST, OR TRANSFER AIR GRILLE
		10x10	300			
		12x12	450			
		14x14	600			
		16x16	800			
(C)	SIDEWALL SUPPLY REGISTER	8x6	200	TITUS 300 RL	OPPOSED BLADE DAMPER	SIDEWALL REGISTER
		10x10	300			
		12x12	450			

#### MEP Component Anchorage Note

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA approved construction documents. Where no detail is indicated, the following components shall be anchored or braced to meet the force and displacement of requirements prescribed in the 2016 CBC, Sections 1616A.1.18 through 1616A.1.26 and ASCE 7-10 Chapter 13, 28 and 30.

1. All permanent equipment and components.
2. Temporary or movable equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity gas or water.
3. Movable equipment which is stationed in one place for more than 8 hours and heavier than 400 pounds or has a center of mass located 4 feet or more above adjacent floor or roof level that directly support the component are required to be anchored with temporary attachments.

The following mechanical and electrical components shall be positively attached to the structure, but the attachment need not be detailed on the plans. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit.

- A. Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
- B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

For those elements that do not required details on the approved drawings, the installation shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and the DSA District Structural Engineer. The project inspector will verify that all components and equipment have been anchored in accordance with above requirements.

#### Piping, Ductwork, and Electrical Distribution System Bracing Note

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-10 Section 13.3 as defined in ASCE 7-10 Section 13.6.5.6, 13.6.7, 13.6.8, and 2016 CBC, Sections 1616A.1.24, 1616A.1.25, and 1616A.1.26.

The method of showing bracing attachments to the structure for the identified distribution systems are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., SMACNA or OSHPD OPM), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E).

(MP), (MD), (PP) Shall comply with the SMACNA Seismic Restraint Manual, OSHPD Edition (2009), including any addenda. Fasteners and other attachments not specifically identified in the SMACNA Seismic Restraint Manual, OSHPD Edition, are detailed on the approved drawings with project specific notes and details. The details shall account for the applicable Seismic Hazard Level D and Connection Level 1 for the project and conditions.

**MECHANICAL DUCT INSTALLATION SHALL COMPLY WITH 1616A.1.25 2016 CBC.**

MECHANICAL LEGEND					
SYMBOL	ABBREV.	DESCRIPTION	SYMBOL	ABBREV.	DESCRIPTION
		REMOVE EXISTING EQUIPMENT OR PIPING SHOWN HATCHED		CD	DUCT TRANSITION
		REMOVE AND RELOCATE EXISTING EQUIPMENT OR PIPING SHOWN HATCHED		CD	CEILING DIFFUSER
	POC	POINT OF CONNECTION		RR	RETURN REGISTER
	POD	POINT OF DISCONNECT		ER	EXHAUST REGISTER
		COORDINATE WITH ELECTRICAL		T'STAT	THERMOSTAT OR TEMPERATURE SENSOR (NUMBER INDICATES EQUIPMENT ZONE SERVED)
	HHWS	HEATING HOT WATER SUPPLY		H'STAT	HUMIDISTAT
	HHWR	HEATING HOT WATER RETURN			CARBON DIOXIDE SENSOR
	CHW	CHILLED WATER		CFM	CUBIC FEET PER MINUTE
	CHWR	CHILLED WATER RETURN			SYMBOL, SEE EQUIPMENT SCHEDULE
	CHWS	CHILLED WATER SUPPLY		AD/AP	ACCESS DOOR / ACCESS PANEL
	CD	CONDENSATE DRAIN (A/C)		AFF	ABOVE FINISHED FLOOR
	CWR	CONDENSER WATER RETURN		BDD	BACK DRAFT DAMPER
	CWS	CONDENSER WATER SUPPLY		BDD	BOTTOM OF DUCT
	D	DRAIN		BOP	BOTTOM OF PIPE (ABOVE FIN. FLR.)
	ST	STEAM		CD	CEILING DIFFUSER
	LPS	LOW PRESSURE STEAM		CLG.	CEILING
	MPS	MEDIUM PRESSURE STEAM		CFM	CUBIC FEET PER MINUTE
	HPS	HIGH PRESSURE STEAM		CONC.	CONCRETE
	CR	STEAM CONDENSATE RETURN		CONT.	CONTINUATION
	RD	REFRIGERANT DISCHARGE		°F	DEGREES FAHRENHEIT
	RL	REFRIGERANT LIQUID		DIA. Ø	DIAMETER
	RS	REFRIGERANT SUCTION		DN.	DOWN
		PIPE DOWN		DWGS	DRAWINGS
		PIPE UP		DB	DRY BULB
		PIPE RISE (OR DN. FOR DROP)		DTR	DUCT THRU ROOF
		DIRECTION OF FLOW IN PIPE		(E)	EXISTING
	AV	AIR VENT (VALVE)		EA	EXHAUST AIR
	CHV	CHECK VALVE		ER	EXHAUST REGISTER
	SD	SUCTION DIFFUSER		EFF.	EFFICIENCY
	CV (2W)	CONTROL VALVE (2-WAY)		ELEV.	ELEVATION
	CV (3W)	CONTROL VALVE (3-WAY)		ENT.	ENTERING
	FCD	AUTOMATIC FLOW CONTROL DEVICE		EW	ENTERING WATER TEMPERATURE
	SOV	SHUT OFF VALVE		EXH.	EXHAUST
	BV	COMBINATION BALANCING & SHUT-OFF VALVE		EXIST.	EXISTING
	FEV	FLOW ELEMENT VENTURI		FF	FINISHED FLOOR
		VALVE ON RISE OR DROP		FIN.	FINISH
	STR.	STRAINER		FLR.	FLOOR
	CL	CAPPED LINE		GPM	GALLONS PER MINUTE
	DN.	DOWN OR DROP		IN.	INCH
	UP	RISE OR RISER		HD.	HEAD
	RV	PRESSURE RELIEF VALVE		HOA	HAND-OFF-AUTOMATIC
	PG	PRESSURE GAUGE WITH BALL VALVE		HP	HORSEPOWER
	R.	ECCENTRIC REDUCER		LD	LINEAR DIFFUSER
	R.	CONCENTRIC REDUCER		LVG.	LEAVING
	FC	FLEXIBLE CONNECTION (PIPE)		LWT	LEAVING WATER TEMPERATURE
	TW	TEST WELL (PETE'S PLUG) - PRESSURE AND/OR TEMPERATURE		MAX.	MAXIMUM
	TI	THERMOMETER		MBH	ONE THOUSAND B.T.U.'S PER HOUR
	PA	PIPE ANCHOR		MECH.	MECHANICAL
	U	UNION		MIN.	MINIMUM
		DUCTWORK (1ST NUMBER INDICATES WIDTH SHOWN), NET INSIDE DIMENSION		MTD.	MOUNTED
	TV	SQUARE ELBOW WITH TURNING VANES		MTG.	MOUNTING
		RADIUS ELBOW WITH 3 SPLITTER VANES		NC	NORMALLY CLOSED
	MVD	MANUAL VOLUME DAMPER		NO	NORMALLY OPEN
	MOD	MOTOR OPERATED DAMPER		OBD	OPPOSED BLADE DAMPER
	BDD	BACKDRAFT DAMPER		OA	OUTSIDE AIR
	FD	FIRE DAMPER		PD	PRESSURE DROP
	SD	DUCT MOUNTED SMOKE DETECTOR		PSIG	POUNDS PER SQUARE INCH GAUGE
	SFD	AUTOMATIC SMOKE AND FIRE DAMPER		RA	RETURN AIR
	FLEX	FLEXIBLE CONNECTION (DUCTWORK)		REG.	REGISTER
	FLEX	FLEXIBLE CONNECTION OR SEISMIC JOINT		RR	RETURN REGISTER
		LINED DUCTWORK (OR PLENUM)		SA	SUPPLY AIR
		DUCT RISE IN DIRECTION OF FLOW		SF	SQUARE FEET
		DUCT DROP IN DIRECTION OF FLOW		SS	STAINLESS STEEL
		ROUND DUCT UP		ST	STEAM
		ROUND DUCT DOWN		TYP.	TYPICAL
		SUPPLY DUCT UP		UNO	UNLESS NOTED OTHERWISE
		SUPPLY DUCT DOWN		UOS	UNLESS OTHERWISE SPECIFIED
	RA/OA	RETURN AIR DUCT/OUTSIDE AIR DUCT UP		UTR	UP THRU ROOF
		RETURN AIR DUCT/OUTSIDE AIR DUCT DOWN		VAV	VARIABLE AIR VOLUME
		EXHAUST AIR DUCT UP		VFD	VARIABLE FREQUENCY DRIVE
		EXHAUST AIR DUCT DOWN		VTR	VENT THRU ROOF
				WG	WATER GAUGE
				WB	WET BULB
				W/	WITH

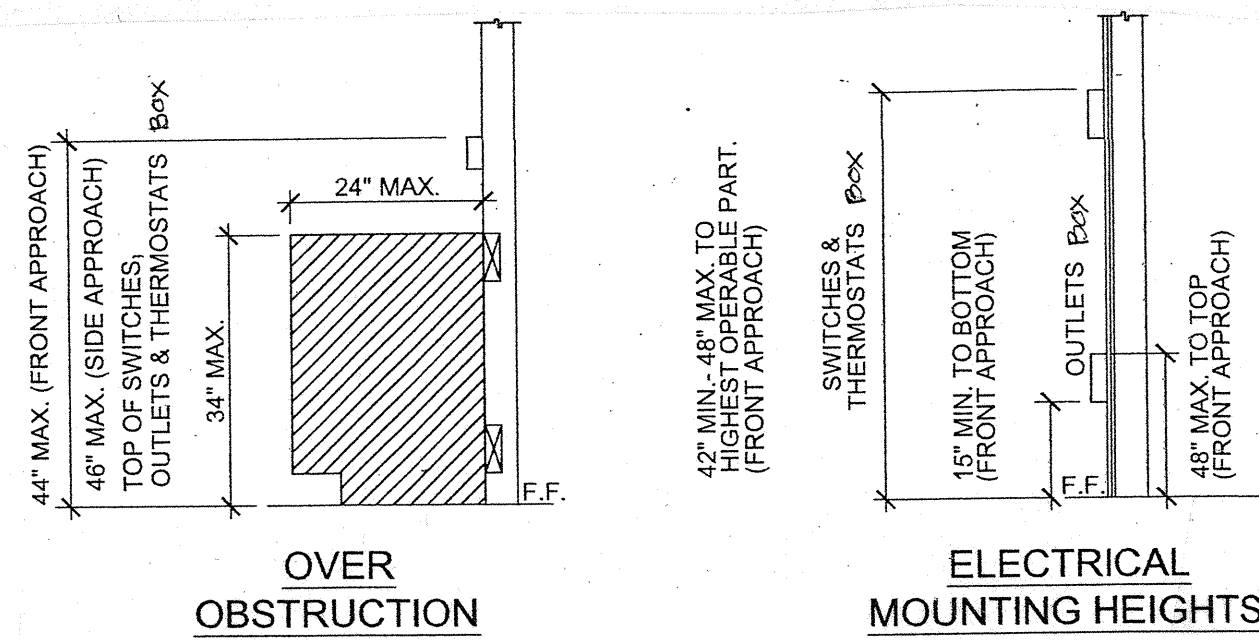
#### GENERAL NOTES:

1. THESE DRAWINGS ARE A GENERAL GRAPHIC PRESENTATION OF THE WORK. DUCTWORK, PIPING, AND EQUIPMENT, AS SHOWN, ARE SCHEMATIC. FABRICATE AND INSTALL BASED ON ACTUAL FIELD MEASUREMENT. COORDINATE WITH OTHER TRADES. PROVIDE A COMPLETE SET OF SHOP DRAWINGS REFLECTING ACTUAL DIMENSIONS, ACCESS REQUIREMENTS, AND DETAILS BASED UPON THE ACTUAL EQUIPMENT PROCURED. MAINTAIN AN UP TO DATE SET OF AS-BUILT DRAWINGS AT THE JOB SITE.
2. COMPLY WITH CALIFORNIA MECHANICAL CODE (CMC), CALIFORNIA PLUMBING CODE (CPC), AND NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), AND GOVERNING CODES. THERE SHALL BE NO EXCEPTION. REPORT DEFICIENCIES WITHIN THIRTY (30) DAYS UPON AUTHORIZATION TO PROCEED.
3. REVIEW ALL DRAWINGS AND SPECIFICATIONS INCLUDING ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY QUESTIONS SHALL BE BROUGHT UP, IN WRITING, TO THE ATTENTION OF THE ENGINEER BEFORE THE START OF CONSTRUCTION.
4. PROVIDE ACCESS AND CLEARANCE FOR MAINTENANCE FOR MECHANICAL EQUIPMENT AND COMPONENTS AS RECOMMENDED BY EQUIPMENT MANUFACTURER AND APPLICABLE CODES.
5. HANDLE, STORE AND INSTALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
6. INSTALL VALVES WITH UNIONS OR FLANGES AT EACH PIECE OF EQUIPMENT ARRANGED TO ALLOW SERVICE MAINTENANCE, AND EQUIPMENT REMOVAL WITHOUT SYSTEM SHUT-DOWN.
7. BRACE AND SUPPORT PIPES, CONDUIT, AND DUCTWORK IN ACCORDANCE WITH SMACNA GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL AND PLUMBING PIPING SYSTEM.
8. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS, REGISTERS, GRILLES, AND ACCESS PANELS.
9. ALL DUCT DIMENSIONS, AS SHOWN ON MECHANICAL DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
10. INSULATION AND FLEXIBLE DUCT SHALL COMPLY WITH STATE FIRE MARSHALL CRITERIA AND SHALL NOT EXCEED FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50 PER ASTM-84, NFPA-223, AND UL 723.
11. INSULATE PIPING AND DUCTWORK IN ACCORDANCE WITH THE GOVERNING CODES.
12. COMMISSION AND START-UP THE MECHANICAL SYSTEMS TO ASSURE A COMPLETE AND OPERATIONAL HVAC SYSTEM IN ACCORDANCE WITH ASHRAE AND NEBB.
13. ALL SQUARE ELBOWS IN DUCTWORK SHALL HAVE DOUBLE THICKNESS TURNING VANES. ALL RADIUS ELBOWS IN DUCTWORK SHALL BE MINIMUM 1.5W (1.5WIDHTH) AND HAVE 3 SPLITTER VANES. PROVIDE MANUAL VOLUME DAMPER AT EACH BRANCH DUCT TAKE-OFF SERVING EACH AIR TERMINAL DEVICE. PROVIDE BALANCING DAMPERS FOR EACH MAIN DUCT TAKE-OFF IN ACCORDANCE WITH SMACNA IN ORDER TO ASSURE A COMPLETELY BALANCED SYSTEM.
14. FIRE DAMPER ASSEMBLIES, INCLUDING LOCATION, SLEEVES, AND INSTALLATION PROCEDURES SHALL BE APPROVED BY THE BUILDING INSPECTOR PRIOR TO PROCUREMENT AND INSTALLATION. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FIRE RATED WALLS AND SMOKE SEPARATIONS.
15. COORDINATE WITH ELECTRICAL AND CONTROL CONTRACTORS FOR ALL POWER REQUIREMENTS PRIOR TO BID.
16. COORDINATE WITH ELECTRICAL AND CONTROL CONTRACTORS FOR ALL POWER REQUIREMENTS PRIOR TO ORDERING ANY EQUIPMENT.
17. UPON INSTALLATION OF ALL EQUIPMENT, DEVICES, VIBRATION ISOLATION, ETC., PROVIDE WRITTEN CONFIRMATION BY EQUIPMENT MANUFACTURER'S REPRESENTATIVES TO ENSURE COMPLIANCE WITH MANUFACTURER'S REQUIREMENTS.
18. PROVIDE DETAILS AND SEISMIC CALCULATIONS FOR ALL EQUIPMENT ON VIBRATION ISOLATION. ALL DETAILS SHALL BE STAMPED BY A STRUCTURE ENGINEER FROM VIBRATION ISOLATION MANUFACTURER.
19. THE CONTRACTOR SHALL SELECT ALL CIRCUIT SETTERS/BALANCING VALVES FOR ACTUAL FLOW THROUGH THE PIPE AND THE PROPER PRESSURE DROP TO ENSURE PROPER OPERATION AND NOT BASED ON PIPE SIZES.

#### PROJECT NOTES

1. CONTRACTOR SHALL COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH ALL DISCIPLINES TO VERIFY CLEARANCES BETWEEN HVAC DUCTS, HVAC PIPING, LIGHT FIXTURES, ELECTRICAL DATA CONDUITS, PLUMBING LINES, FIRE PROTECTION LINES, STRUCTURAL MEMBERS, ETC. SPECIAL ATTENTION IS REQUIRED ALONG THE LENGTH OF MAIN MECHANICAL SUPPLY AND RETURN AIR DUCTS WHERE THERE IS LIMITED CLEARANCE FOR PASSAGE OR ROUTING OF UTILITIES.
2. THE SPACE FOR DUCT WORK & MECHANICAL EQUIPMENT FOR THIS PROJECT IS LIMITED. COORDINATION WITH OTHER TRADES IS CRITICAL. PROCEED WITH PREPARATION OF SHOP DRAWINGS IMMEDIATELY UPON RECEIVING AN AUTHORIZATION TO PROCEED FOR THE PROJECT. COMPLETE SHOP DRAWINGS PRIOR TO MATERIAL FABRICATION AND INSTALLATION. SHOP DRAWINGS SHALL BE REVIEWED BY COMMISSIONING AGENT PRIOR TO SUBMITTAL.
3. PROVIDE ORIGINALLY PREPARED CONTRACTOR'S SHOP DRAWINGS IN ELECTRONIC FORMAT. IN ADDITION TO THE REQUIREMENTS SPECIFIED ELSEWHERE, THE SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING:
  - a. DUCT, PIPE, AND PLUMBING ELEVATIONS.
  - b. DOUBLE LINE DUCTWORK AND PIPING (6" AND LARGER).
  - c. ACTUAL SIZE OF PURCHASED EQUIPMENT. PER APPROVED CONTRACTOR'S SHOP DRAWINGS.
  - d. ACCESS PANELS INCLUDING CEILING PANELS.
  - e. ACCESS CLEARANCES FOR EQUIPMENT.
  - f. ACTUAL LOCATIONS OF CEILING DIFFUSERS, REGISTERS, AND RETURN REGISTERS.
  - g. LOCATIONS OF STRUCTURAL MEMBERS SUCH AS BEAMS.
  - h. ACTUAL LOCATIONS OF CONTROL PANELS AND POWER CONNECTIONS TO EQUIPMENT.
  - i. COLOR CODED DUCT AND PIPING BASED ON MATERIAL USED.
  - j. MINIMUM 1/4"=1'0" SCALE DRAWINGS.
  - k. LABEL AND TAG SCHEDULE FOR EQUIPMENT.
  - l. DUCT TRANSITIONS TO CLEAR BEAMS OR TIGHT AREAS.
  - m. ROOM TEMPERATURE SENSOR LOCATIONS.
  - n. POINT OF CONNECTION TO UTILITIES OUTSIDE THE BUILDING.
  - o. SECTIONS OR 3-D DRAWINGS OF CONGESTED AREAS.
  - p. GRID LINES.
  - q. UTILITY PROFILES FOR UNDERGROUND PIPING.
4. DO NOT COMMENCE WITH ANY INSTALLATION, DEMOLITION OR ORDERING OF ANY EQUIPMENT OR MATERIAL FABRICATION WITHOUT AN APPROVED SHOP DRAWING SUBMITTAL.
5. FOR EACH SUBMITTAL, THE CONTRACTOR SHALL PROVIDE A LETTER (ON COMPANY LETTERHEAD) AND SIGNED BY THE PROJECT MANAGER INDICATING THE SUBMITTAL HAS BEEN FULLY IN HOUSE REVIEWED TO ENSURE FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS AND COORDINATION WITH OTHER TRADES. ANY EXCEPTIONS TO THE CONTRACT DOCUMENTS SHALL BE CLEARLY INDICATED ON THIS LETTER. ANY DISCREPANCIES/EXCEPTIONS NOT IDENTIFIED IN WRITING SHALL BE CORRECTED AT THE SOLE EXPENSE OF THE CONTRACTOR AND AT NO EXPENSE TO THE OWNER AND ENGINEER.

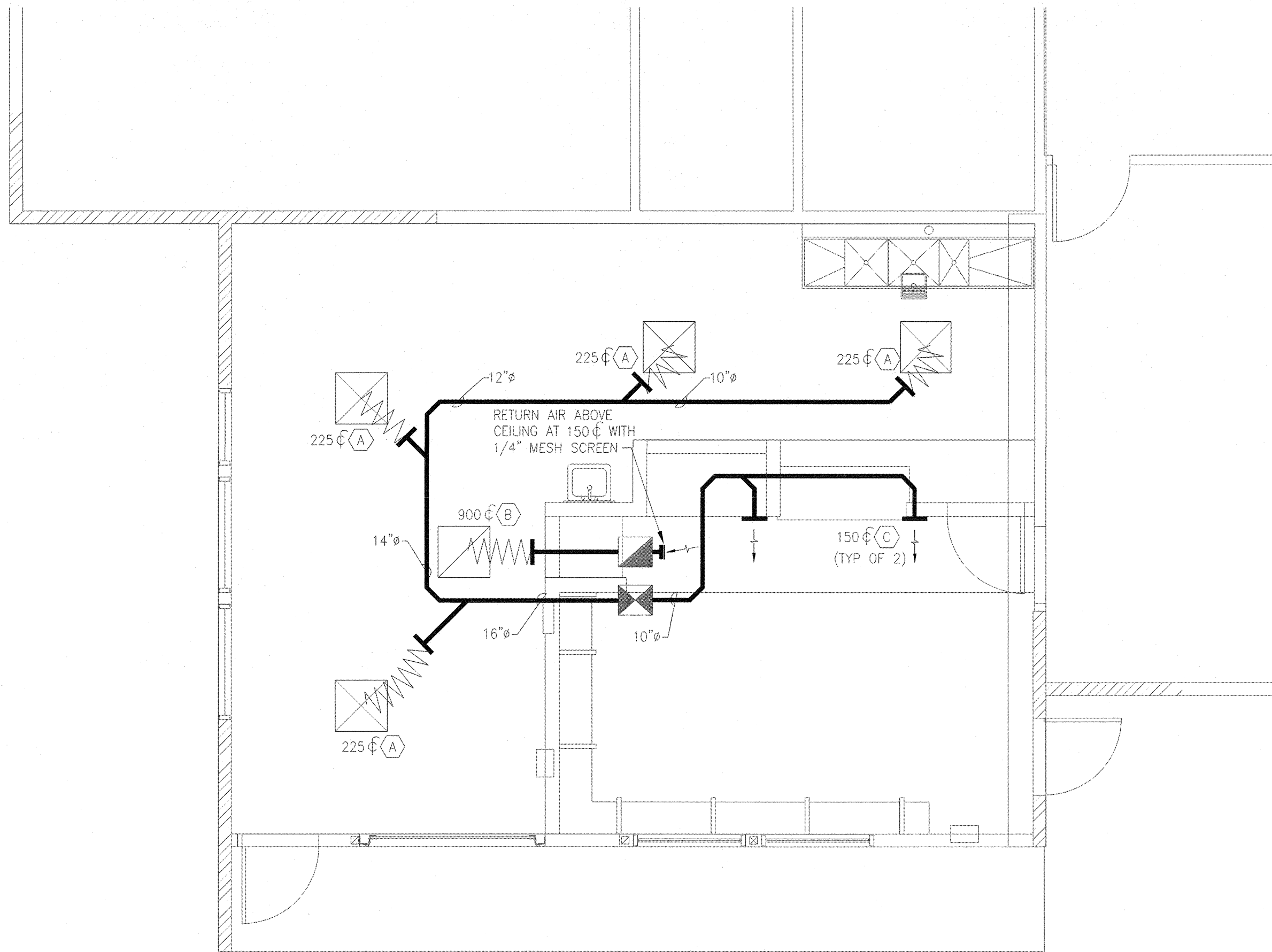
PACKAGE HEAT PUMP UNIT SCHEDULE																						
SYMBOL	DESCRIPTION	EVAPORATOR FAN				COOLING CAPACITY				HEATING				ELECT.				ELECTRICAL				REMARKS
		CFM	E.S.P.	DRIVE	H.P.	AMB °F	EDB °F	EWB °F	TOTAL CAP. (MBH)	SENSIBLE CAP. (MBH)	AMB °F	EDB °F	LDB °F	TOTAL CAP. (MBH)	ELECT. REHEAT	COMPRESSOR LRA	COMPRESSOR RLA	MAX UNIT RLA	V	Ø	HZ	
	CARRIER-50WR-A36	1200	0.50	DIRECT	3/4	95	80	67	34.20	26.75	47	70	95.3	34.15	---	83	15.3	---	208	1	60	---



No.	Description	Date	No.	Description	Date

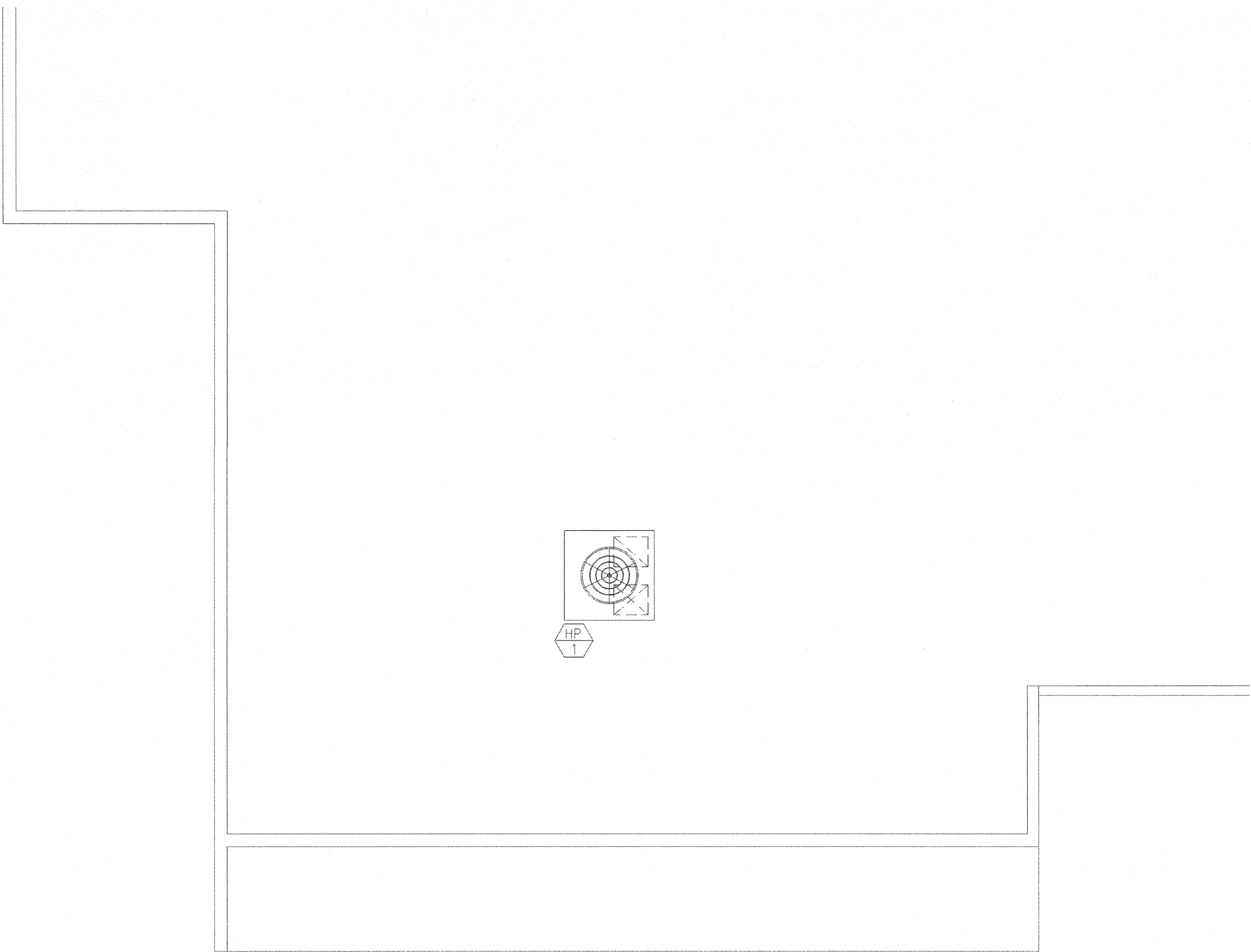
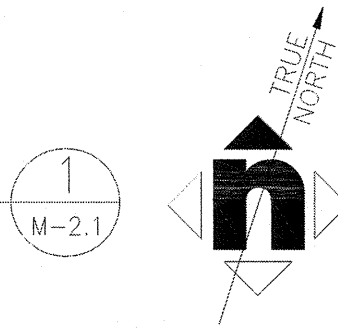
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Architect's Seal	Designed: KA	Project No. 5015016
Drawn: KA	Scale:	
QA/QC:	Drawing No.	
Date: 08-07-2017	<b>M-0.1</b>	





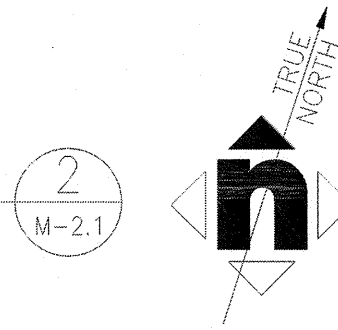
MECHANICAL FLOOR PLAN

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

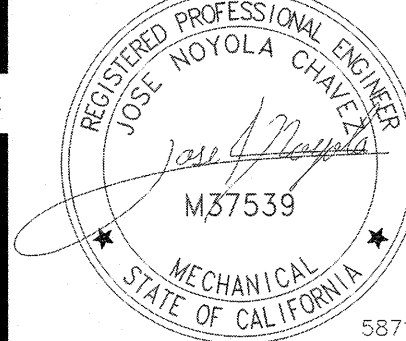


MECHANICAL ROOF PLAN

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



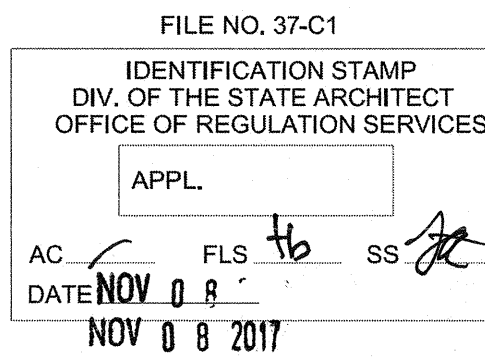
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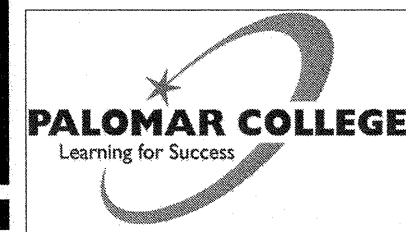
5160 Carroll Canyon Rd,  
Suite 200  
San Diego, California 92121  
Consulting Mechanical Engineers  
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Key Plan

Agency Approval



Project Title:



ANITA & STAN MAAG  
FOOD & NUTRITION  
CENTER

PALOMAR COLLEGE  
1140 W. MISSION RD.  
SAN MARCOS, CA 92069-1487

No.	Description	Date	No.	Description	Date

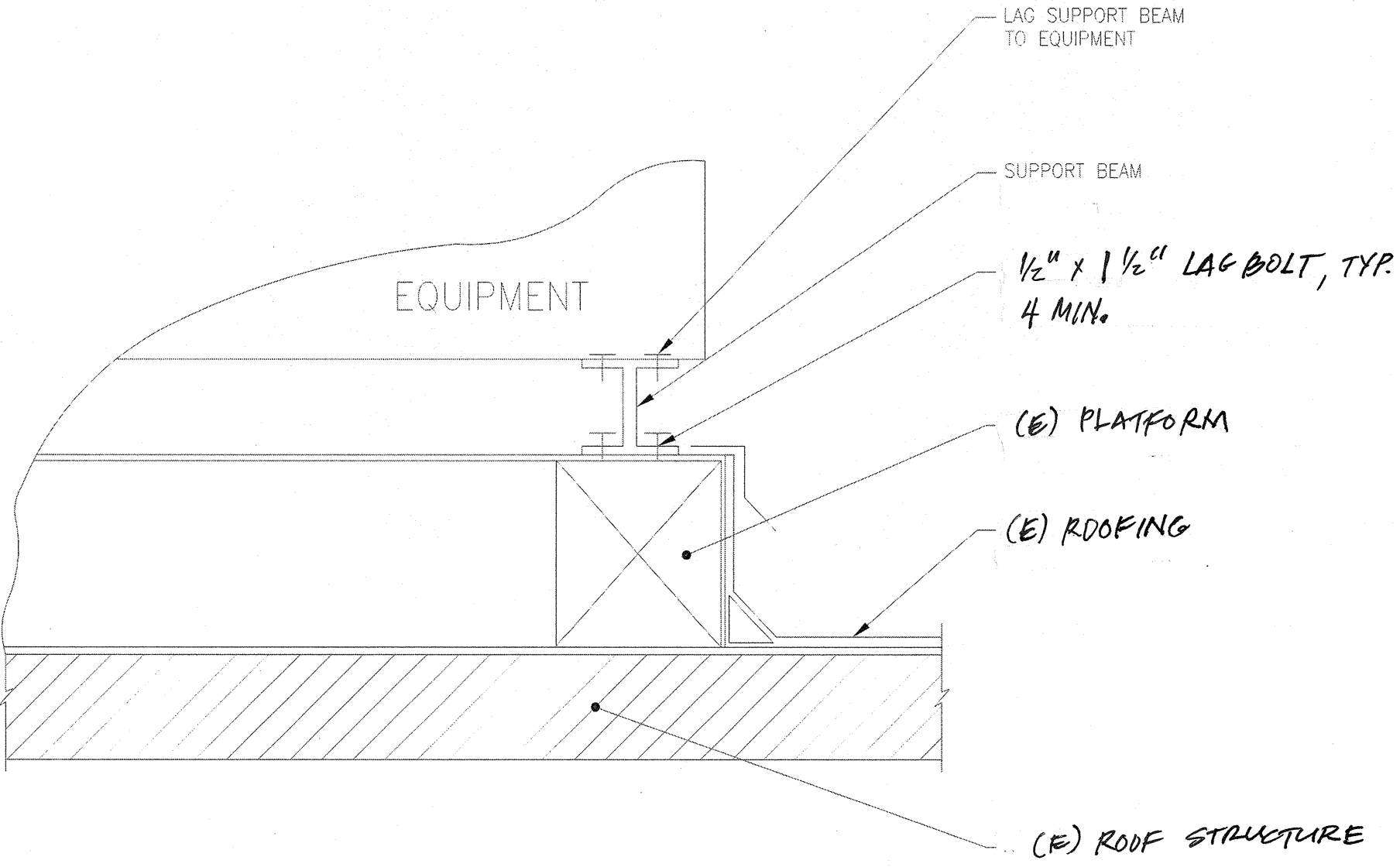
Drawing Title:

MECHANICAL FLOOR AND  
ROOF PLAN

Architect's Seal	Designed:	Project No. 5015016
	Drawn: KA	Scale:
	QA/QC:	Drawing No. <b>M-2.1</b>
	Date: 08-07-2017	



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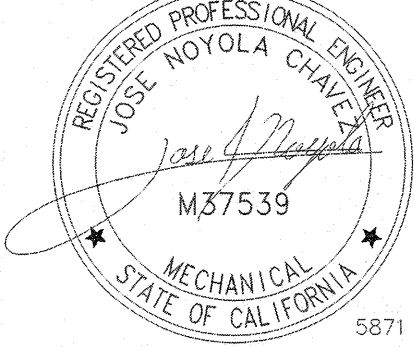


EQUIPMENT MOUNTING DETAIL

NO SCALE

M-5.1

Consultant



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San Diego, California 92121  
Consulting Mechanical Engineers  
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858 200-0037  
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Key Plan

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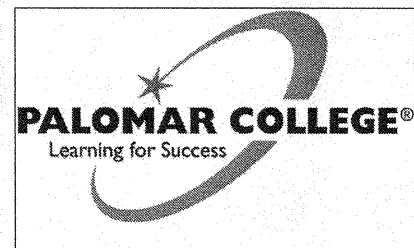
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IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES

APPL.

AC ☒ FLS ☒ SS ☒  
DATE NOV 8 2017

Project Title:



ANITA & STAN MAAG  
FOOD & NUTRITION  
CENTER

PALOMAR COLLEGE  
1140 W. MISSION RD.  
SAN MARCOS, CA 92069-1487

No.	Description	Date	No.	Description	Date

Drawing Title:

MECHANICAL DETAILS

Architect's Seal	Designed:	Project No. 5015016
	Drawn: KA	Scale:
	QAQC:	Drawing No. M-5.1
	Date: 08-07-2017	



PLUMBING LEGEND AND ABBREVIATIONS

SYMBOL	ABBREV.	DESCRIPTION	SYMBOL	ABBREV.	DESCRIPTION
	POC	POINT OF CONNECTION WASTE OR SEWER BELOW SLAB		ABV	ABOVE
				A/C	ABOVE CEILING
				A.F.F.	ABOVE FINISH FLOOR
	V	WASTE OR SEWER ABOVE SLAB SANITARY VENT		A.F.G.	ABOVE FINISH GRADE
	CW	COLD WATER		A/G	ABOVE GRADE
	HW	HOT WATER		A.P.	ACCESS PANEL
	HWR	HOT WATER RETURN		B/F	BELOW FLOOR
	FS	FLOOR SINK		B/G	BELOW GRADE
	FCO	FLOOR CLEAN-OUT		CFH	CUBIC FEET PER HOUR
	WCO	WALL CLEAN-OUT		DWGS.	DRAWINGS
	DN	DOWN OR DROP		EA	EACH
	UP	RISE OR RISER		EXIST.	EXISTING
	CD	CONDENSATE DRAIN PIPING		(E)	EXISTING
				FT.	FEET OR FOOT
				FLR.	FLOOR
				G.P.M.	GALLONS PER MINUTE
				LB	POUNDS
				V.T.R.	VENT THROUGH ROOF

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	ROUGH-IN					REMARKS
		HW	CW	W	TRAP	V	
	HAND SINK	1/2"	1/2"	2"	1 1/2"	1 1/2"	JUST MODEL HCL-23520-S, WALL HUNG, STAINLESS STEEL, CHICAGO MODEL # 116.213.AB.1 DECK MOUNTED BATTERY SENSOR FAUCET, JTM-47 THERMOSTATIC MIXING VALVE, J-15-PS DRAIN, PROVIDE P-TRAP, INTEGRAL WALL BRACKETS, STEEL WALL CLIP, BATTERY HOLDER, ACCESSIBLE
	SINK	1/2"	1/2"	2"	--	--	ADVANCE TABCO 94-63-54-18RL, STAINLESS STEEL, THREE COMPARTMENT SINK, DRAIN INDIRECT TO FLOOR SINK, CHICAGO MODEL # 510-GC613ALBOP PRE-RINSE FAUCET.
	FLOOR SINK	--	--	2"	2"	2"	J. R. SMITH FIG. 3100, DUCO-CAST IRON BODY, SEEPAGE FLANGE, ACID RESISTING.

GENERAL NOTES

1. NO PLUMBING SHALL BE INSTALLED UNTIL ALL REQUIRED PLUMBING PLAN CHECK PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REQUIRED AGENCIES.
2. LAVATORY FAUCETS, SINK FAUCETS (NOT INCLUDING SERVICE SINK FAUCETS OR FAUCETS DESIGNATED AS INSTITUTIONAL) SHALL MEET THE FLOW REQUIREMENTS OUTLINED IN THE APPLIANCE EFFICIENCY STANDARDS.
3. COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES AND DRAINS.
4. PROVIDE ALL TAILPIECES, TRAPS, STOPS, SUPPLY PIPES TO LAVATORIES DESIGNED AS ACCESSIBLE, WITH PRE-FORMED INSULATION JACKET.
5. COORDINATE AND VERIFY SIZES, LOCATIONS, DEPTHS AND PRESSURIZED PIPING PRESSURES OF ALL BUILDING UTILITIES WITH CIVIL.
6. COORDINATE AND SCHEDULE TIMING FOR UTILITY SERVICE CONNECTION.
7. ALL LINES BELOW SLAB ON GRADE TO BE LOCATED AWAY FROM ALL LOAD BEARING FOOTINGS.
8. ALL LINES RUNNING BELOW GRADE BEAMS OR PENETRATING, SEE STRUCTURAL DRAWINGS FOR CONSTRUCTION.
9. ALL VENTS THRU ROOF SHALL BE MINIMUM OF 18 INCHES VERTICAL AND TEN FEET HORIZONTAL AWAY FROM ALL AIR CONDITIONING FRESH AIR INTAKES AND PROVIDED WITH VANDAL PROOF HOODS.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS, ROOFS, FOOTINGS, FLOORS, INCLUDING ALL SAW CUTTING AND CORE DRILLING. COORDINATE ALL SAW CUTTING AND CORE DRILLING WITH STRUCTURAL DRAWINGS. ANY CUTTING AND DRILLING REQUIRED OF STRUCTURAL ELEMENTS THAT IS NOT SPECIFICALLY SHOWN ON THE PLANS SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION PRIOR TO CUTTING AND DRILLING. CONTRACTOR SHALL SUBMIT PROPOSED LOCATION AND SIZES OF SUCH CUTTING AND DRILLING FOR THE ARCHITECTS AND STRUCTURAL ENGINEERS APPROVAL.
11. COORDINATE ALL EQUIPMENT LOCATIONS, PIPE PENETRATIONS AND EQUIPMENT PAD LOCATIONS WITH STRUCTURAL DRAWINGS PRIOR TO WORK.
12. COORDINATE INSTALLATION OF ALL EQUIPMENT AND PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. ENSURE THAT ALL CONTROL DEVICES, SHUT-OFF VALVES, ETC., ARE ACCESSIBLE FOR MAINTENANCE. WHEN ACCESS PANELS ARE REQUIRED IN FINISHED SPACES, OTHER THAN THAT SHOWN, CONTRACTOR SHALL PROVIDE AND COORDINATE EXACT LOCATION OF PANELS WITH ARCHITECT PRIOR TO INSTALLATION.
13. INSTALL VALVES WITH UNIONS OR FLANGES AT EACH PIECE OF EQUIPMENT ARRANGED TO ALLOW SERVICE, MAINTENANCE, AND EQUIPMENT REMOVAL WITHOUT SYSTEM SHUT-DOWN.
14. ANY STRUCTURAL FIREPROOFING DAMAGED DURING INSTALLATION OF PLUMBING EQUIPMENT, PIPING, ETC., SHALL BE REPAIRED AT NO COST TO THE OWNER. REPAIRS SHALL BE AS DIRECTED BY THE ARCHITECT.
15. PROVIDE VACUUM BREAKERS AT HOSE BIBBS.
16. FAUCETS TO BE 2.2 G.P.M. (0.14 L/S) MAXIMUM.
17. CROSS CONNECTION PROTECTION SHALL BE PROVIDED AT ALL POTABLE WATER SUPPLIED APPLIANCES AND EQUIPMENT.
18. COORDINATE WITH ELECTRICAL AND CONTROL CONTRACTORS FOR ALL POWER REQUIREMENTS PRIOR TO BID.
19. COORDINATE WITH ELECTRICAL AND CONTROL CONTRACTORS FOR ALL POWER REQUIREMENTS PRIOR TO ORDERING ANY EQUIPMENT.
20. UPON INSTALLATION OF ALL EQUIPMENT, DEVICES, VIBRATION ISOLATION, ETC., PROVIDE WRITTEN CONFIRMATION BY EQUIPMENT MANUFACTURER'S REPRESENTATIVES TO ENSURE COMPLIANCE WITH MANUFACTURER'S REQUIREMENTS.
21. PROVIDE DETAILS AND SEISMIC CALCULATIONS FOR ALL EQUIPMENT ON VIBRATION ISOLATION. ALL DETAILS SHALL BE STAMPED BY A STRUCTURAL ENGINEER FROM VIBRATION ISOLATION MANUFACTURER.
22. FOR EACH SUBMITTAL, THE CONTRACTOR SHALL PROVIDE A LETTER (ON COMPANY LETTERHEAD) AND SIGNED BY THE PROJECT MANAGER INDICATING THE SUBMITTAL HAS BEEN FULLY IN HOUSE REVIEWED TO ENSURE FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS AND COORDINATION WITH OTHER TRADES. ANY EXCEPTIONS TO THE CONTRACT DOCUMENTS SHALL BE CLEARLY INDICATED ON THIS LETTER. ANY DISCREPANCIES/EXCEPTIONS NOT IDENTIFIED IN WRITING SHALL BE CORRECTED AT THE SOLE EXPENSE OF THE CONTRACTOR AND AT NO EXPENSE TO THE OWNER AND ENGINEER.

MEP Component Anchorage Note

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA approved construction documents. Where no detail is indicated, the following components shall be anchored or braced to meet the force and displacement of requirements prescribed in the 2016 CBC, Sections 1616A.1.18 through 1616A1.28 and ASCE 7-10 Chapter 13, 26 and 30.

1. All permanent equipment and components.
2. Temporary or movable equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity gas or water.
3. Movable equipment which is stationed in one place for more than 8 hours and heavier than 400 pounds or has a center of mass located 4 feet or more above adjacent floor or roof level that directly support the component are required to be anchored with temporary attachments.

The following mechanical and electrical components shall be positively attached to the structure, but the attachment need not be detailed on the plans. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit.

- A. Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
- B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

For those elements that do not required details on the approved drawings, the installation shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and the DSA District Structural Engineer. The project inspector will verify that all components and equipment have been anchored in accordance with above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note

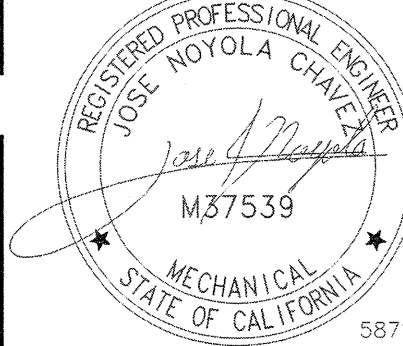
Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-10 Section 13.3 as defined in ASCE 7-10 Section 13.6.5.6, 13.6.7, 13.6.8, and 2016 CBC, Sections 1616A.1.24, 1616A.1.25, and 1616A.1.28.

The method of showing bracing attachments to the structure for the identified distribution systems are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., SMACNA or OSHPD OPM), copies of the bracing system installation guide or manual shall be available on the jobsite prior the start of and during the hanging and bracing of distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):

(MP), (MD), (PP) Shall comply with the SMACNA Seismic Restraint Manual, OSHPD Edition (2009), including any addenda. Fasteners and other attachments not specifically identified in the SMACNA Seismic Restraint Manual, OSHPD Edition, are detailed on the approved drawings with proper specific notes and details. The details shall account for the applicable Seismic Hazard Level D and Connection Level 1 for the project and conditions.

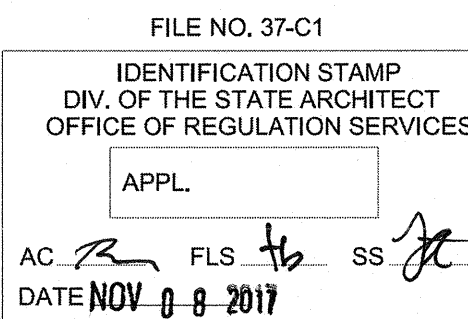
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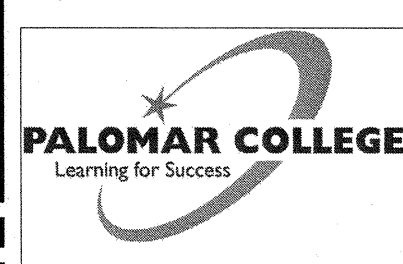
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Consulting Mechanical Engineers  
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Key Plan

Agency Approval



Project Title:



ANITA & STAN MAAG  
FOOD & NUTRITION  
CENTER

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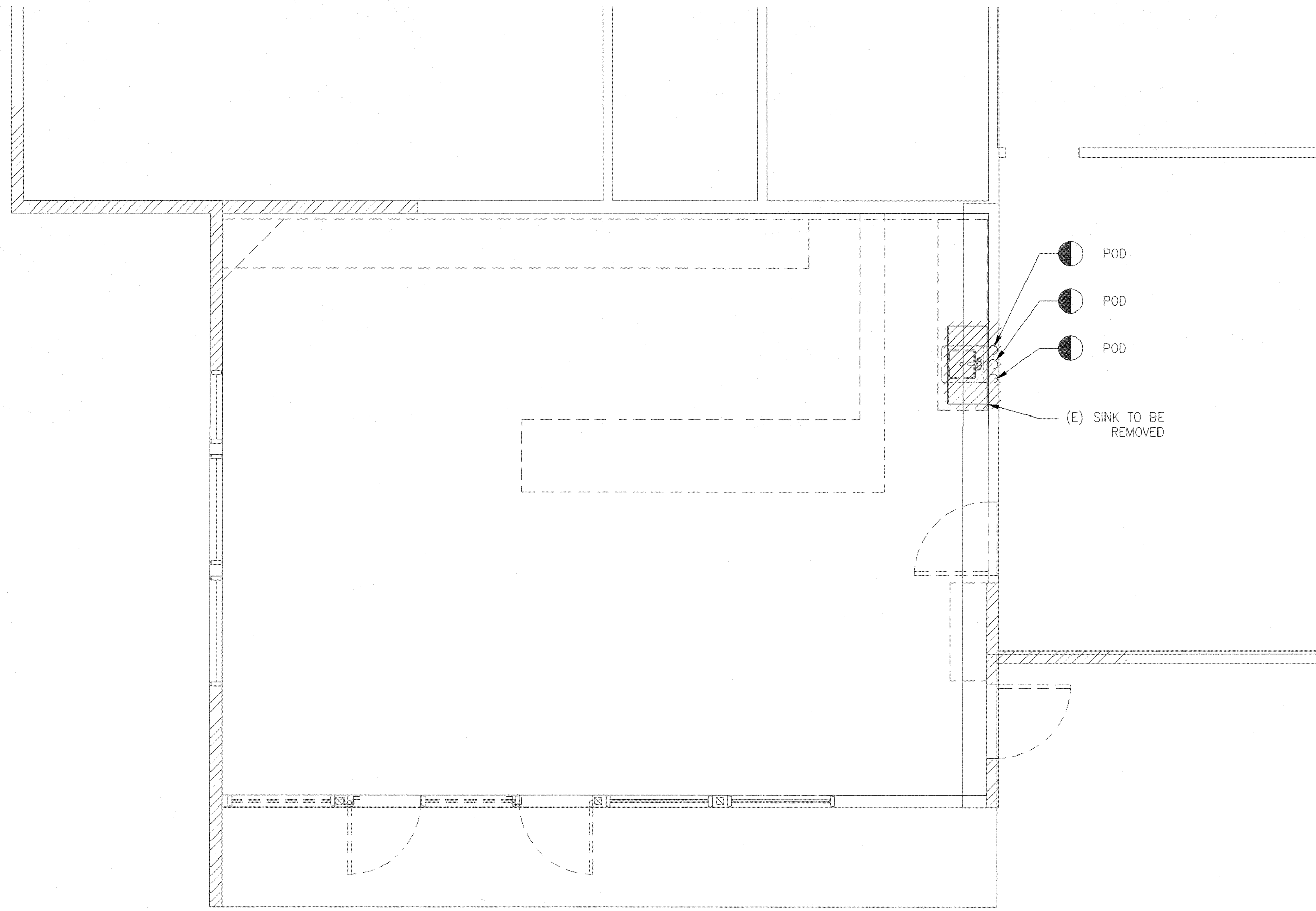
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PLUMBING LEGEND, GENERAL NOTES AND SCHEDULES

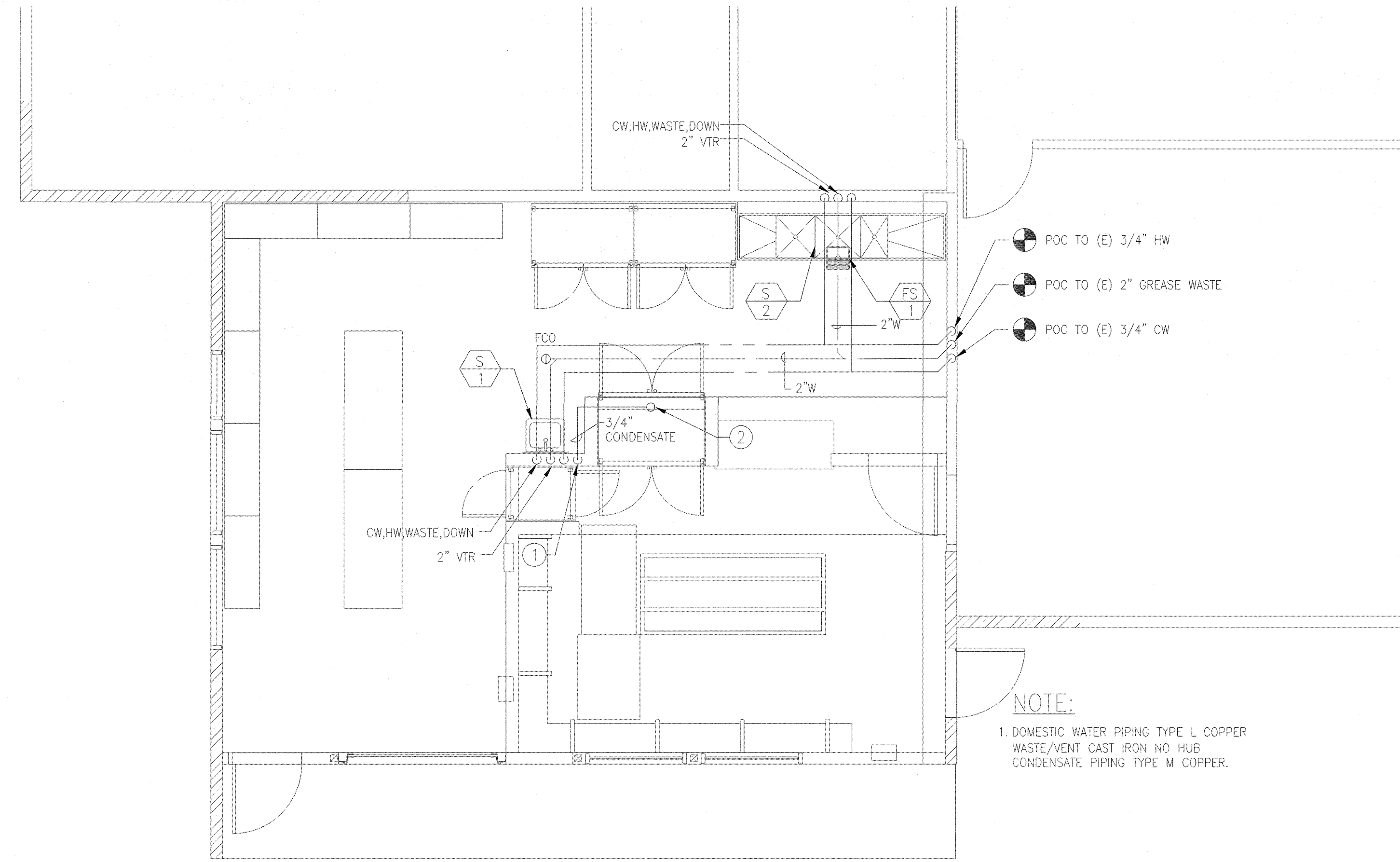
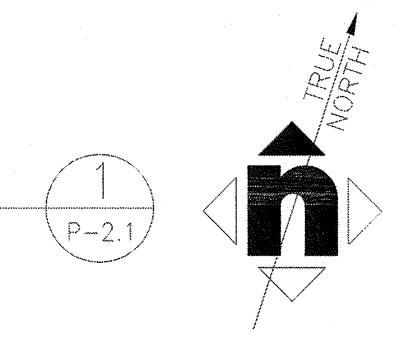
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	Drawn: KA	Scale:
	QAQC:	Drawing No. P-0.1
	Date: 08-07-2017	



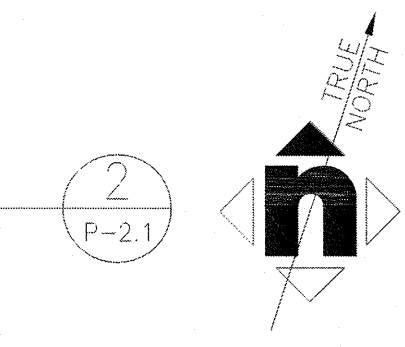
- SM
- KEYED NOTES:
- CONDENSATE DRAIN DOWN TO SINK TAIL PIECE.
  - CONDENSATE DRAIN UP TO CONDENSING UNIT.



PLUMBING DEMO FLOOR PLAN  
SCALE: 1/4" = 1'-0"



PLUMBING FLOOR PLAN  
SCALE: 1/4" = 1'-0"



Consultant

REGISTERED PROFESSIONAL ENGINEER  
JOSE ROYOLA CHAVEZ  
M37539  
MECHANICAL  
STATE OF CALIFORNIA  
5871

MA ENGINEERS

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

Key Plan

Agency Approval

FILE NO. 37-C1

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

APPL.

AC *[Signature]* FLS *[Signature]* SS *[Signature]*  
DATE NOV 8 8 2017

Project Title:

PALOMAR COLLEGE  
Learning for Success

ANITA & STAN MAAG  
FOOD & NUTRITION  
CENTER

PALOMAR COLLEGE  
1140 W. MISSION RD.  
SAN MARCOS, CA 92069-1487

No.	Description	Date	No.	Description	Date

Drawing Title:

PLUMBING DEMOLITION AND  
FLOOR PLAN

Architect's Seal

Designed:

Project No.  
5015016

Drawn:  
KA

Scale:

QAQC:

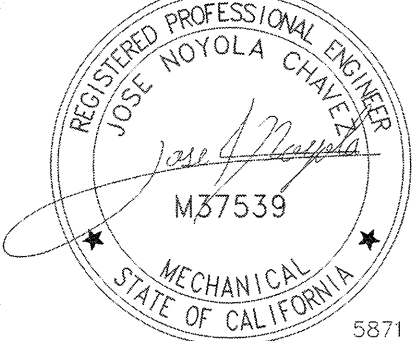
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Date:  
08-07-2017



SM

Consultant



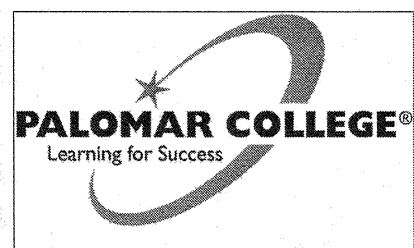
5160 Carroll Canyon Rd.  
Suite 200  
San Diego, California 92121  
Consulting Mechanical Engineers  
858 200-0030  
858 200-0037  
www.ma-engr.com

Key Plan

Agency Approval

FILE NO. 37-C1  
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DIV. OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES  
APPL.  
AC ☒ FLS ☒ SS ☒  
DATE NOV 8 2017

Project Title:



ANITA & STAN MAAG  
FOOD & NUTRITION  
CENTER

PALOMAR COLLEGE  
1140 W. MISSION RD.  
SAN MARCOS, CA 92069-1487

No.	Description	Date	No.	Description	Date

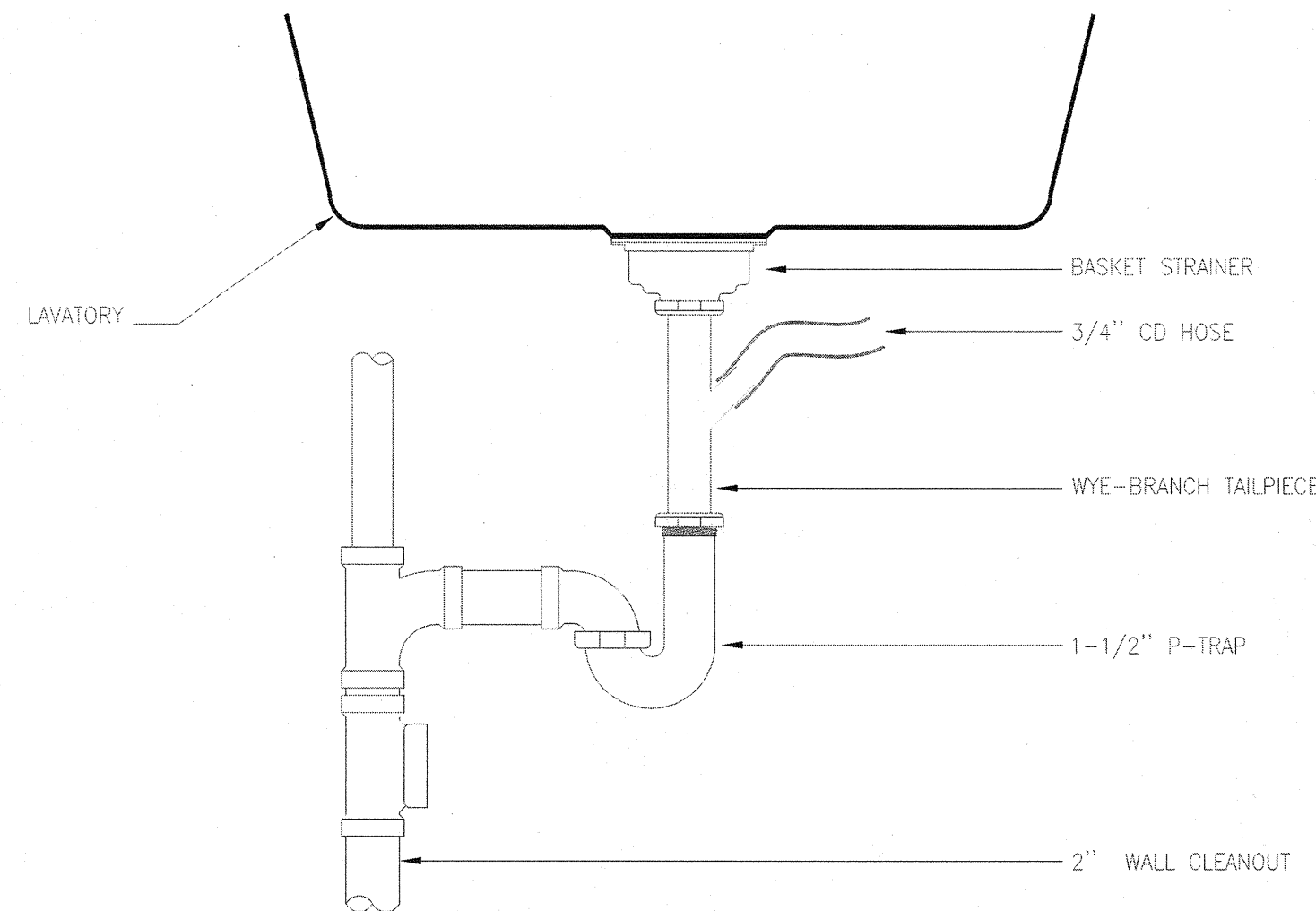
Drawing Title:

PLUMBING ROOF PLAN

Architect's Seal	Designed:	Project No. 5015016
	Drawn: KA	Scale:
	QAQC:	Drawing No. P-2.2
	Date: 08-07-2017	



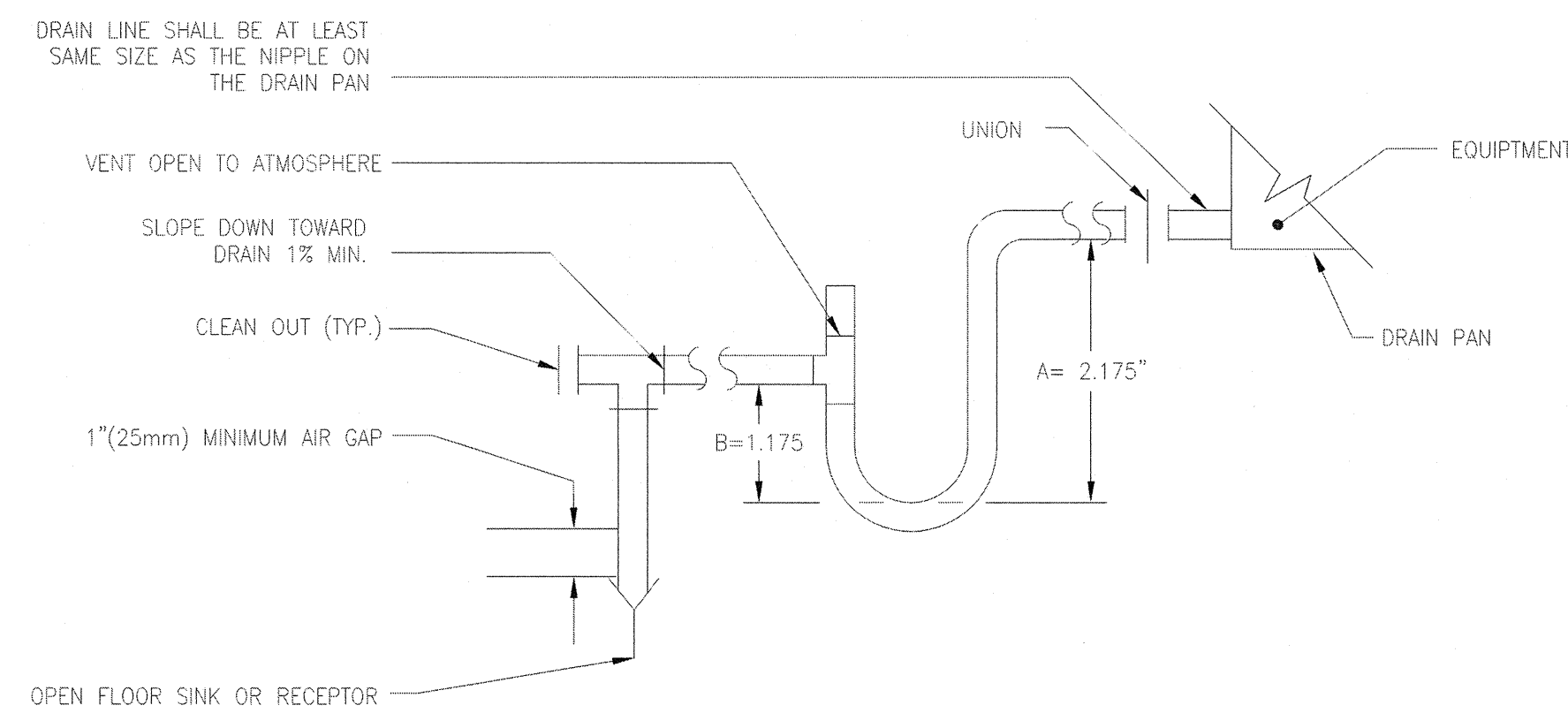
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INDIRECT CONDENSATE WASTE

NO SCALE

1  
P-5.1

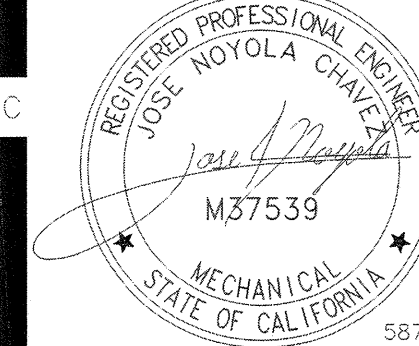


HVAC CONDENSATE DRAIN - DRAW-THRU UNITS

NO SCALE

2  
P-5.1

Consultant



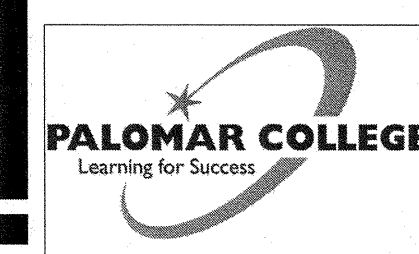
5160 Carroll Canyon Rd.  
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Consulting Mechanical Engineers  
858 200-0030  
858 200-0037  
www.ma-engr.com

Key Plan

Agency Approval

FILE NO. 37-C1  
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES  
APPL.  
AC ☒ FLS ☒ SS ☒  
DATE NOV 8 2017

Project Title:



ANITA & STAN MAAG  
FOOD & NUTRITION  
CENTER

PALOMAR COLLEGE  
1140 W. MISSION RD.  
SAN MARCOS, CA 92069-1487

No.	Description	Date	No.	Description	Date

Drawing Title:

PLUMBING DETAILS

Architect's Seal	Designed:	Project No. 5015016
	Drawn: KA	Scale:
	OAQC:	Drawing No. P-5.1
	Date: 08-07-2017	



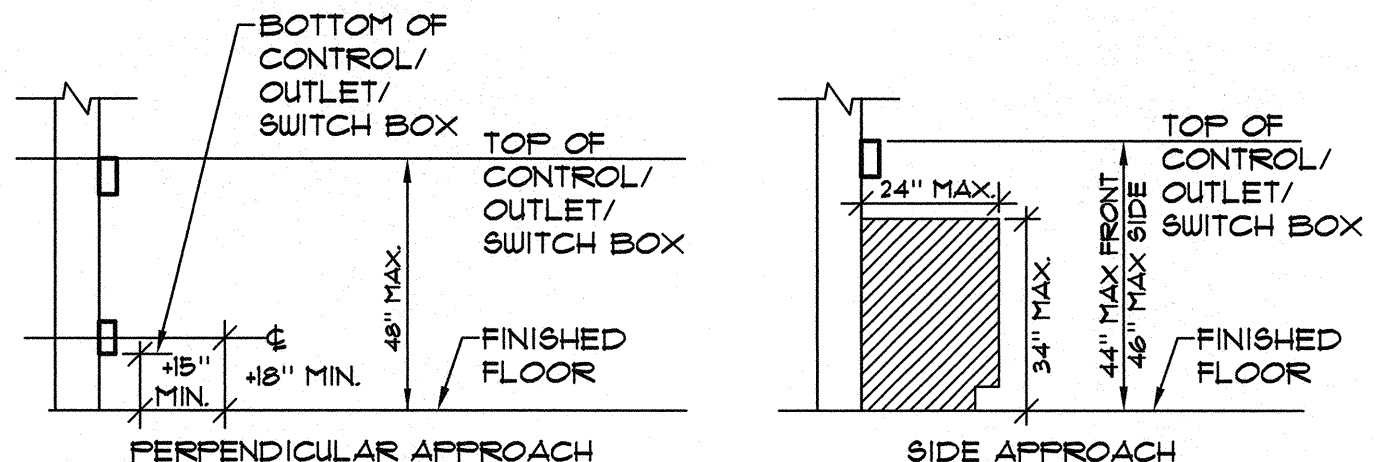
ABBREVIATIONS

A	AMPERE (AMPs)
AC	ALTERNATING CURRENT
AF	AMPS-FRAME (RATING)
AIC	AMP INTERRUPTING CURRENT
AM	AMMETER
AS	AMP SWITCH (FUSED SWITCH RATING)
AT	AMPS-TRIP (RATING)
AUG	AMERICAN WIRE GAUGE
BC	BARE COPPER
BLDG	BUILDING
CB	CIRCUIT BREAKER
CO	CONDUIT ONLY
CT	CURRENT TRANSFORMER
COFFER	COPPER
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DUG	DRAWING
EX	EXISTING
FLA	FULL LOAD AMPS
FVR	FULL VOLTAGE REVERSING
FNR	FULL VOLTAGE NON-REVERSING
GFI	GROUND FAULT INTERRUPTER
GRD/GND	GROUND
HID	HIGH INTENSITY DISCHARGE
HQA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPs	HIGH PRESSURE SODIUM
HZ	HERTZ
KW	KILOWATT
LCL	LONG CONTINUOUS LOAD
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
MCC	MOTOR CONTROL CENTER
MCM (KCM)	THOUSAND CIRCULAR MILS
MECH	MECHANICAL
NC	NORMALLY CLOSED
NF	NON-FUSED
NO	NORMALLY OPEN/NUMBER
OCFI	OWNER FURNISHED CONTRACTOR INSTALLED
OFI	OWNER FURNISHED OWNER INSTALLED
P	PHASE
PH	POINT OF CONNECTION
FRS	PVC COATED RIGID STEEL (CONDUIT)
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE DUCT
SUBD	SWITCHBOARD
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLT
VA	VOLTAMPERES
VM	VOLTMETER
VL	VERIFY LOCATION
W	WIRE/WATTS
WP	WEATHERPROOF (NEMA TYPE 3R)
WT	WATERTIGHT
XP	EXPLOSION PROOF (RATED FOR AREA HAZARD)

ELECTRICAL SYMBOL LEGEND

LIGHTING

	LIGHTING FIXTURE DESIGNATION
	LIGHTING FIXTURE, CEILING OR WALL MOUNTED AS SHOWN
	FLUORESCENT LIGHT FIXTURE
	SINGLE POLE SWITCH, SUBSCRIPT WHEN SHOWN INDICATES FIXTURES CONTROLLED 48" AFF. (UON) HEIGHT PER DETAILS 1/E10, WHERE USED IN CONJUNCTION WITH OCCUPANCY SENSORS FOR SWITCH TYPE SEE DETAIL
	CEILING MOUNTED OCCUPANCY SENSOR LIGHTING CONTROL. SEE E21



MOUNTING HEIGHT OVER OBSTRUCTION

NO SCALE

POWER

	DUPLEX RECEPTACLE, WALL MOUNTED, 48" AFF. (UON)
	FOURPLEX RECEPTACLE, WALL MOUNTED, 48" AFF. (UON)
	RECEPTACLE MOUNTED 48" ABOVE COUNTER BACKSPLASH SEE ARCHITECTURAL PLANS FOR REQUIRED MOUNTING HEIGHT PRIOR TO ROUGH-IN
	DUPLEX RECEPTACLE IN WEATHERPROOF ENCLOSURE 48" AFF. (UON)
	JUNCTION BOX, FLOOR MOUNTED
	JUNCTION BOX, CEILING OR WALL MOUNTED
	FUSED DISCONNECT SWITCH, WHERE SHOWN NF = NON-FUSED.
	MECHANICAL EQUIPMENT TAG (SEE MECHANICAL DRAWINGS FOR DESCRIPTION)
	CONDUIT AND WIRE, CONCEALED IN CEILING OR WALL
	CONDUIT AND WIRE, CONCEALED IN OR UNDER FINISHED FLOOR OR UNDER FINISHED GRADE.
	FLEXIBLE CONDUIT CONNECTION
	BRANCH CIRCUIT HOMERUN TO PANEL. SLASHES INDICATE NUMBER OF CONDUCTORS. EQUIPMENT GROUND WIRE NOT INDICATED UON. #2 CONDUCTORS ARE MINIMUM, NO HASH MARKS = MIN (2) #2
	3/4" CONDUIT STUBBED FROM DEVICE TO ABOVE ACCESSIBLE CEILING
	BRANCH CIRCUIT HOMERUN, NUMBER INDICATES INCREASED CONDUCTOR SIZE, CONDUCTORS SHALL REMAIN AS INDICATED FOR SIZE THROUGHOUT THE ENTIRE CIRCUIT.
	PANELBOARD, RECESSED
	SURFACE MOUNTED RACEWAY SINGLE SECTION SERIES, NON METALLIC (WHITE) VERIFY COLOR

GENERAL PROJECT NOTES:

1. UNLESS WHERE OTHERWISE NOTED, ALL WORK INDICATED ON THESE DRAWINGS SHALL BE CONSIDERED NEW WORK.
2. UNLESS WHERE OTHERWISE NOTED, ALL DIMENSIONS ARE TO BE CENTERLINE OF THE DEVICE.
3. "GENERAL NOTES" SHOWN ON AN INDIVIDUAL DRAWING APPLY TO ALL WORK SHOWN ON THAT SHEET. "KEY NOTES" ONLY APPLY TO SPECIFIC ITEMS WHERE ANNOTATED AT SPECIFIC LOCATIONS. SOME KEY NOTES MAY NOT APPLY TO ANY SPECIFIC ITEMS.
4. UNLESS SPECIFICALLY SHOWN ON THESE PLANS, NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.

GENERAL DEMOLITION NOTES:

1. ALL ELECTRICAL EQUIPMENT, EXPOSED RACEWAY AND CONDUIT, OUTLET BOXES AND RINGS, AND DEVICES ARE TO BE REMOVED, EXCEPT WHERE SHOWN TO REMAIN. EXISTING WIRING, WHETHER EXPOSED, IN CONDUIT OR RACEWAY IS TO BE REMOVED TO THE GREATEST EXTENT POSSIBLE.
2. THE ELECTRICAL CONTRACTOR IS TO DIRECT THE REMOVAL OF THE ABOVE LISTED WORK.

MEP COMPONENT ANCHORAGE NOTE:

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A110 THROUGH 1616A126 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
  2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
  3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.
- THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
  - B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.3.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A123, 1616A124 AND 1616A125 AND 1616A126.

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

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

MF□MD□PP□E□ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MF□MD□PP□E□ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OFPM) \*

MF□MD□PP□E□ - OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA, FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL 2 AND CONNECTION LEVEL 1 FOR THE PROJECT AND CONDITIONS.

FIRE RATED ASSEMBLIES NOTE:

1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DESCRIPTION AND DETAIL OF ALL FIRE RATED ASSEMBLIES.

BACKBOX AND RING LEGEND	
TYPE	DESCRIPTION
'B'	4 11/16" square 2 1/8" deep box with single gang ring.

FACEPLATE LEGEND	
TYPE	DESCRIPTION
'AR'	As required to accommodate the number of ports designated.

'C'	Provided by 21 10 00 contractor.
-----	----------------------------------

CONDUIT / RACEWAY LEGEND	
TYPE	DESCRIPTION
'1-8'	1" conduit stubbed from box into accessible ceiling space, unless detailed otherwise on drawings.

TECHNOLOGY SYMBOL LEGEND				
SYMBOL	DESCRIPTION	BACKBOX & RING	FACE PLATE	CONDUIT / RACEWAY
	Single port data outlet, 48" AFF. (UON)	Type 'B'	Type 'AR'	Type '1-8'
	Dual port data outlet above counter	Type 'B'	Type 'AR'	Type '1-8'
	Dual port data outlet at wireless access point location mounted in accessible ceiling (UON)	Type 'B'	Type 'C'	Not required in accessible ceiling.

COMMUNICATION / SECURITY SYMBOL LEGEND				
SYMBOL	DESCRIPTION	BACKBOX & RING	FACE PLATE	CONDUIT / RACEWAY
	Conduit stubbed above accessible ceiling.	Not required.	Not required.	Conduit for open low voltage wiring. Refer to legend for size.

HMC Architects

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



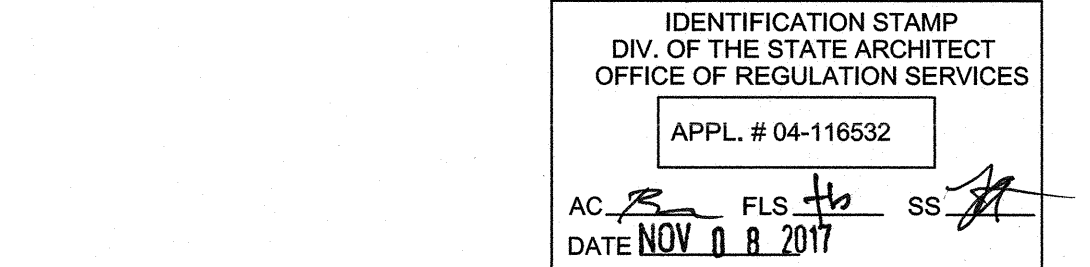
Consultant



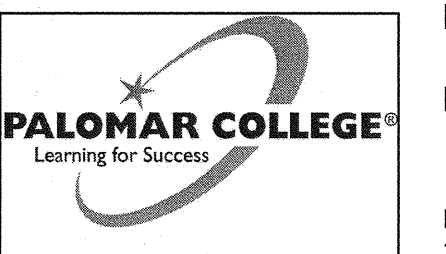
JOHNSON CONSULTING ENGINEERS, INC.

Power | Lighting | Multimedia  
Communications | Data Networking  
Consultant Logo  
12875 Brookprinter Place, Suite 300  
Poway, CA 92084  
P 858.679.4030 | F 858.513.0559  
www.jce-inc.com

Agency Approval



Project Title:



PALOMAR COLLEGE  
FOOD PANTRY  
PALOMAR COLLEGE  
1140 W. MISSION RD.  
SAN MARCOS, CA 92069-1487

No.	Description	Date	No.	Description	Date

Drawing Title:

ELECTRICAL, COMMUNICATION AND TECHNOLOGY LEGENDS AND NOTES

Architect's Seal	Designed: MB	Project No. 5015016
	Drawn: JR	Scale: AS NOTED
	QA/QC: BG	Drawing No. E1.0
	Date: 08-07-2017	







STATE OF CALIFORNIA INDOOR LIGHTING (CSC-INDOOR-LIGHTING) CERTIFICATE OF COMPLIANCE NRC-17-01-4 (Page 1 of 6) Project Name: Palomar College Food Bank Date Prepared: 8/24/2017

A. General Information Climate Zone: 3C Unconditioned Floor Area: 345 sq ft Building Type: 2 Schools 2a Nonresidential 2b High-Rise Residential 2c House/Motel 2d Schools 2e Relocatable Public Schools 2f Unconditioned Spaces Phase of Construction: 1 New Construction 2 Addition 3 Alteration Method of Compliance: 1 Complete Building 2 Area Category 3 Tailored Project Address: 12875 Bristol Mission Road, San Marcos, CA 92064

B. Lighting Compliance Documents (select yes for each document included) For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	COMPLIANCE TITLE
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-17-01-4 Certificate of Compliance. All Plans required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-17-01-4 Lighting Controls, Certificate of Compliance, and PAF Calculation. All Plans required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-17-01-4 Indoor Lighting Power Allowance
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-17-01-4 Tailored Method Worksheet
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-17-01-4 Line Voltage Track Lighting Worksheet
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-17-01-4 Indoor Lighting Existing Conditions

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA INDOOR LIGHTING (CSC-INDOOR-LIGHTING) CERTIFICATE OF COMPLIANCE NRC-17-01-4 (Page 5 of 6) Project Name: Palomar College Food Bank Date Prepared: 8/24/2017

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

H. Indoor Lighting Schedule and Field Inspection Energy Checklist

Room or Space	Complete Luminaire Description (i.e., 3 lamp fluorescent troffer, 187W, dimmable electronic ballast)	Watts per Luminaire (W/L)	Number of Luminaires	Location	Field Inspector
A1	LED 2x4 Troffer, 33.3V	30.3	2	Food Bank	<input checked="" type="checkbox"/>
B	Recessed LED	35	2	Food Bank	<input checked="" type="checkbox"/>
TOTAL WATTS: 445.1					Field Inspector: <input checked="" type="checkbox"/>

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA INDOOR LIGHTING - LIGHTING CONTROLS (CSC-INDOOR-LIGHTING-CONTROLS) CERTIFICATE OF COMPLIANCE NRC-17-03-1 (Page 1 of 3) Project Name: Palomar College Food Bank Date Prepared: 8/24/2017

DOCUMENTATION: AUTHOR'S DECLARATION STATEMENT I, the undersigned, declare that this Certificate of Compliance documentation is accurate and complete. Designer/Author: Monica Hansen Signature Date: 8/24/2017 Address: 12875 Brookprinter Place, Suite 300, Poway, CA 92064

RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer). 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer/Author: Monica Hansen Signature Date: 8/24/2017 Address: 12875 Brookprinter Place, Suite 300, Poway, CA 92064

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA INDOOR LIGHTING POWER ALLOWANCE (CSC-INDOOR-LIGHTING-POWER-ALLOWANCE) CERTIFICATE OF COMPLIANCE NRC-17-03-2 (Page 1 of 4) Project Name: Palomar College Food Bank Date Prepared: 8/24/2017

DOCUMENTATION: AUTHOR'S DECLARATION STATEMENT I, the undersigned, declare that this Certificate of Compliance documentation is accurate and complete. Designer/Author: Monica Hansen Signature Date: 8/24/2017 Address: 12875 Brookprinter Place, Suite 300, Poway, CA 92064

RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer). 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer/Author: Monica Hansen Signature Date: 8/24/2017 Address: 12875 Brookprinter Place, Suite 300, Poway, CA 92064

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA INDOOR LIGHTING (CSC-INDOOR-LIGHTING) CERTIFICATE OF COMPLIANCE NRC-17-01-4 (Page 2 of 6) Project Name: Palomar College Food Bank Date Prepared: 8/24/2017

C. Summary of Allowed Lighting Power

Room or Space	Installed Lighting Power (Watts)	Unconditioned Lighting Power (Watts)
01	445.1	0
02	0	0
03	0	0
04	0	0
05	0	0

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

YES	NO	CERTIFICATE
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-17-01-4 - Must be submitted for all buildings.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-17-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-17-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-17-04-E - Must be submitted for two interrelated systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-17-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-17-06-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 April 2016

STATE OF CALIFORNIA INDOOR LIGHTING (CSC-INDOOR-LIGHTING) CERTIFICATE OF COMPLIANCE NRC-17-01-4 (Page 6 of 6) Project Name: Palomar College Food Bank Date Prepared: 8/24/2017

DOCUMENTATION: AUTHOR'S DECLARATION STATEMENT I, the undersigned, declare that this Certificate of Compliance documentation is accurate and complete. Designer/Author: Monica Hansen Signature Date: 8/24/2017 Address: 12875 Brookprinter Place, Suite 300, Poway, CA 92064

RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer). 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer/Author: Monica Hansen Signature Date: 8/24/2017 Address: 12875 Brookprinter Place, Suite 300, Poway, CA 92064

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA INDOOR LIGHTING POWER ALLOWANCE (CSC-INDOOR-LIGHTING-POWER-ALLOWANCE) CERTIFICATE OF COMPLIANCE NRC-17-03-1 (Page 1 of 4) Project Name: Palomar College Food Bank Date Prepared: 8/24/2017

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for: ☒ CONDITIONED SPACE ☐ UNCONDITIONED SPACE

C-1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES

Room or Space	Watts per sq ft	Area (sq ft)	Allowed Watts
01	1.2	370.8	445.1
02	0	0	0
03	0	0	0
04	0	0	0
05	0	0	0
06	0	0	0
07	0	0	0
08	0	0	0
09	0	0	0
10	0	0	0
11	0	0	0
12	0	0	0
13	0	0	0
14	0	0	0
15	0	0	0
16	0	0	0
17	0	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
30	0	0	0
31	0	0	0
32	0	0	0
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49	0	0	0
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65	0	0	0
66	0	0	0
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69	0	0	0
70	0	0	0
71	0	0	0
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77	0	0	0
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87	0	0	0
88	0	0	0
89	0	0	0
90	0	0	0
91	0	0	0
92	0	0	0
93	0	0	0
94	0	0	0
95	0	0	0
96	0	0	0
97	0	0	0
98	0	0	0
99	0	0	0
100	0	0	0

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA INDOOR LIGHTING (CSC-INDOOR-LIGHTING) CERTIFICATE OF COMPLIANCE NRC-17-01-4 (Page 3 of 6) Project Name: Palomar College Food Bank Date Prepared: 8/24/2017

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

YES	NO	CERTIFICATE
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-17-01-4 - Must be submitted for occupancy sensors and automatic time switch controls.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-17-02-E - Must be submitted for occupancy sensors and automatic time switch controls.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-17-03-E - Must be submitted for occupancy sensors and automatic time switch controls.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-17-04-E - Must be submitted for occupancy sensors and automatic time switch controls.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-17-05-E - Must be submitted for occupancy sensors and automatic time switch controls.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-17-06-E - Must be submitted for occupancy sensors and automatic time switch controls.

F. Indoor Lighting Schedule and Field Inspection Energy Checklist

Room or Space	Installed Lighting Power (Watts)	Unconditioned Lighting Power (Watts)
01	445.1	0
02	0	0
03	0	0
04	0	0
05	0	0
06	0	0
07	0	0
08	0	0
09	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	0	0
20	0	0
21	0	0
22	0	0
23	0	0
24	0	0
25	0	0
26	0	0
27	0	0
28	0	0
29	0	0
30	0	0
31	0	0
32	0	0
33	0	0
34	0	0
35	0	0
36	0	0
37	0	0
38	0	0
39	0	0
40	0	0
41	0	0
42	0	0
43	0	0
44	0	0
45	0	0
46	0	0
47	0	0
48	0	0
49	0	0
50	0	0
51	0	0
52	0	0
53	0	0
54	0	0
55	0	0
56	0	0
57	0	0
58	0	0
59	0	0
60	0	0
61	0	0
62	0	0
63	0	0
64	0	0
65	0	0
66	0	0
67	0	0
68	0	0
69	0	0
70	0	0
71	0	0
72	0	0
73	0	0
74	0	0
75	0	0
76	0	0
77	0	0
78	0	0
79	0	0
80	0	0
81	0	0
82	0	0
83	0	0
84	0	0
85	0	0
86	0	0
87	0	0
88	0	0
89	0	0
90	0	0
91	0	0
92	0	0
93	0	0
94	0	0
95	0	0
96	0	0
97	0	0
98	0	0
99	0	0
100	0	0

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA INDOOR LIGHTING - LIGHTING CONTROLS (CSC-INDOOR-LIGHTING-CONTROLS) CERTIFICATE OF COMPLIANCE NRC-17-03-1 (Page 2 of 3) Project Name: Palomar College Food Bank Date Prepared: 8/24/2017

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

YES	NO	Control Requirements
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 24 Appliance Efficiency Regulations in accordance with Section 110.9.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting shall be controlled by a lighting control system or energy management control system in accordance with 110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with 110.9 and 130.4(b). Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	A Track Lighting Supplementary Occupancy Protection Panel shall be installed in accordance with Section 130.9 and Section 130.4(b). Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	All lighting controls and equipment shall comply with the applicable requirements in 110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	All luminaires shall be functionally controlled with manual ON and OFF lighting controls in accordance with Section 130.1(a).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 30 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled in accordance with Section 130.1(a).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(a).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-Off control requirements in Section 130.1(c).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(a) and daylight zones are shown on the plans.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(a).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building area, or site is operated for normal use, indoor lighting controls serving the building area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-off controls, and demand responsive controls.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA INDOOR LIGHTING POWER ALLOWANCE (CSC-INDOOR-LIGHTING-POWER-ALLOWANCE) CERTIFICATE OF COMPLIANCE NRC-17-03-2 (Page 2 of 4) Project Name: Palomar College Food Bank Date Prepared: 8/24/2017

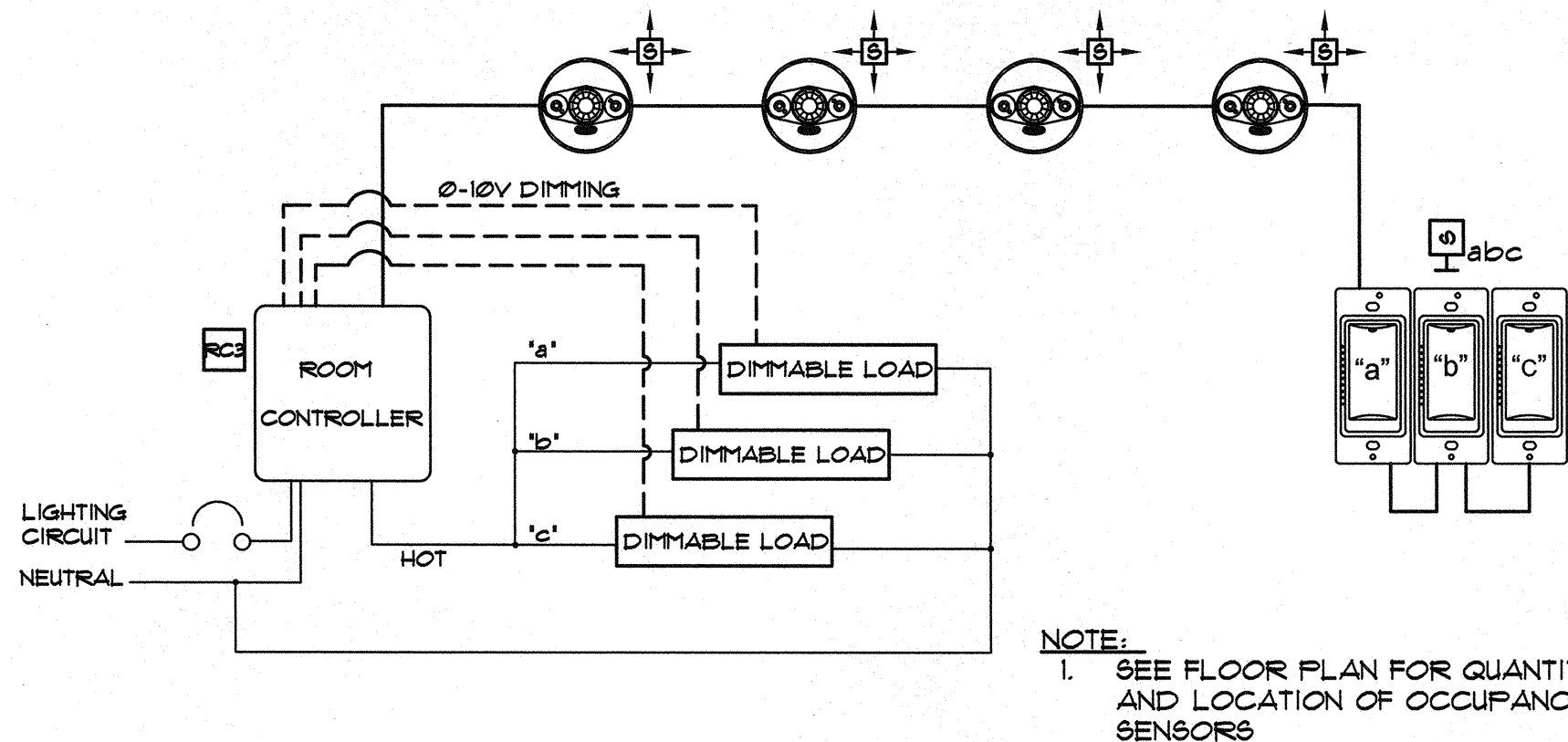
A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for: ☒ CONDITIONED SPACE ☐ UNCONDITIONED SPACE

C-2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE

Room or Space	Watts per sq ft	Area (sq ft)	Allowed Watts
01	1.2	370.8	445.1
02	0	0	0
03	0	0	0
04	0	0	0
05	0	0	0
06	0	0	0
07	0	0	0
08	0	0	0
09	0	0	0
10	0	0	0
11	0	0	0
12	0	0	0
13	0	0	0
14	0	0	0
15	0	0	0
16	0	0	0
17	0	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
30	0	0	0
31	0	0	0
32	0	0	0
33	0	0	0
34	0	0	0
35	0	0	0
36	0	0	0
37	0	0	0
38	0	0	0
39	0	0	0
40	0	0	0
41	0	0	0
42	0	0	0
43	0	0	0
44	0	0	0
45	0	0	0
46	0</		



LIGHTING FIXTURE SCHEDULE											
Mark	Approved Manufacturer's (See Key Note No.1)	Catalog Series Type (See Key Note No.2)	FIXTURE				LAMP	MOUNTING	Description	Quantity	Notes
			Fluorescent	Incandescent	LED	Valve					
A	CREE	CR24 SERIES	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	UNV	Recessed / Ceiling	2X4 GRID FIXTURE, 4000 LUMENS, CCT 4000K, 0-10V DIMMING, MAX 4.75" DEEP, 22 GAUGE STEEL HOUSING, 10 YR LIMITED WARRANTY.	208	
	-	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UNV	Recessed / Ceiling		277	
	-	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UNV	Recessed / Ceiling		480	
	-	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UNV	Recessed / Ceiling			
A2	CREE	CR22 SERIES	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	UNV	Recessed / Ceiling	2X2 GRID FIXTURE, 3200 LUMENS, CCT 4000K, 0-10V DIMMING, MAX 4.75" DEEP, 22 GAUGE STEEL HOUSING, 10 YR WARRANTY.	208	
	-	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UNV	Recessed / Ceiling		277	
	-	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UNV	Recessed / Ceiling		480	
	-	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UNV	Recessed / Ceiling			
B	PHILIPS LIGHTOLIER	ALCYONLED	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	UNV	Recessed / Ceiling	LED VERTICAL CYLINDERS, 3 HEADS, 4000K CCT, 80 CRI, FINISH BLACK, REFLECTOR-NARROW FLOOD, 0-10V DIMMING.	208	
	-	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UNV	Recessed / Ceiling		277	
	-	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UNV	Recessed / Ceiling		480	
	-	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UNV	Recessed / Ceiling			
N16	EATON	PORTFOLIO SERIES	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	UNV	Recessed / Ceiling	106A20 6" DOWN LIGHT, 2000 LUMENS, 80 CRI, 4000K CCT, MEDIUM REFLECTOR, FINISH-SPECULAR CLEAR, SELF FLANGED.	208	
	-	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UNV	Recessed / Ceiling		277	
	-	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UNV	Recessed / Ceiling		480	
	-	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UNV	Recessed / Ceiling			



NON TYPICAL ROOM TYPE  
NO SCALE

1  
E2.1

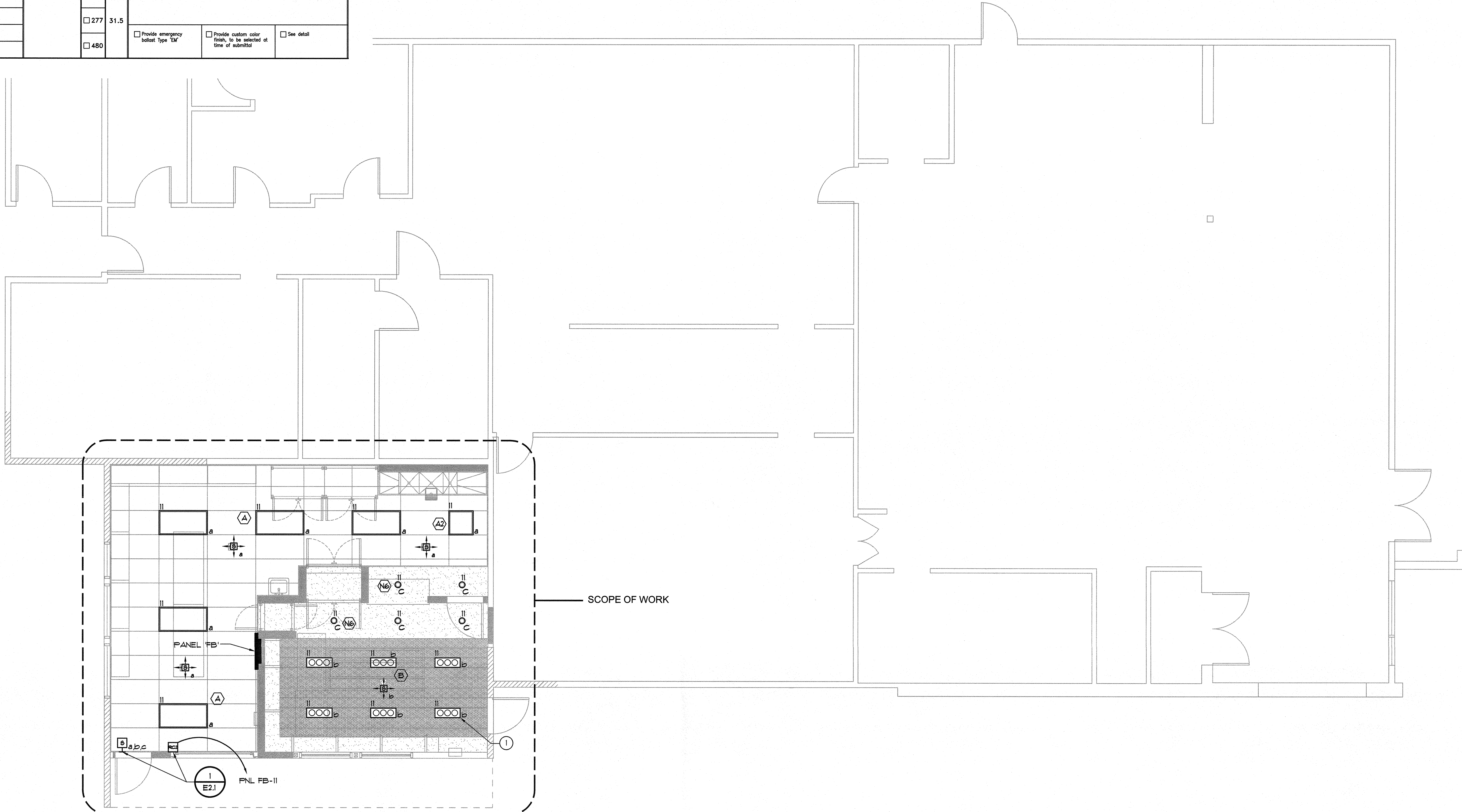
- SYMBOL LENGEND**
- H-8 WALL MOUNTED MANUAL ON AND OFF SWITCH 48" U.O.N.
  - H-8DT WALL MOUNTED DUAL TECH OCCUPANCY SENSOR WITH MANUAL ON AND OFF 48" U.O.N.
  - 8- CEILING MOUNTED OCCUPANCY SENSOR (DUAL TECHNOLOGY)
  - 8 WALL MOUNTED OCCUPANCY SENSOR (DUAL TECH) 48" U.O.N.
  - RC SINGLE CIRCUIT ROOM CONTROLLER FOR ROOMS WITH ONE DIMMING ZONE.
  - RC2 SINGLE CIRCUIT ROOM CONTROLLER FOR ROOMS WITH TWO DIMMING ZONES.
  - RC3 SINGLE CIRCUIT ROOM CONTROLLER FOR ROOMS WITH THREE DIMMING ZONES.
  - PLC PLUG LOAD CONTROLLER
  - DS DAYLIGHT SENSOR
  - H-8 4S 4 SCENE DIMMING CONTROL STATION
  - H-8K MANUAL ON AND OFF KEY SWITCH
  - H-8a MAIN ENTRY MANUAL ON AND OFF WITH DIMMER FOR ZONE 'a'
  - H-8ab MAIN ENTRY MANUAL ON AND OFF WITH DIMMER FOR ZONE 'a' & 'b'
  - H-8abc MAIN ENTRY MANUAL ON AND OFF WITH DIMMER FOR ZONE 'a' & 'b' & 'c'
  - H-8abc MAIN ENTRY MANUAL DIMMERS FOR ZONE 'a', 'b' & 'c'

- GENERAL NOTES**
- REFERENCE SPECIFICATION SECTION 26-0923 DIGITAL LIGHTING CONTROL SYSTEM FOR ADDITIONAL SCOPE OF WORK.
  - ITEMS 8a, 8ab, 8abc TO BE WALL MOUNTED ABOVE THE ROOM ENTRY DOOR, ABOVE THE CEILING IN ALL ROOMS WITH T-BAR CEILING.
  - ITEMS 8a, 8ab, 8abc TO BE LOCATED WITHIN A 24" x 24" RECESSED ENCLOSURE WITH HINGED LOCKING COVER LOCATED ABOVE THE ROOM ENTRY DOOR IN ALL ROOMS WITH INACCESSIBLE CEILING.
  - ALL 0-10V WIRING AND CAT 5E WIRING MAY BE INSTALLED AS OPEN WIRE WHERE ABOVE ACCESSIBLE CEILING. WHERE ABOVE INACCESSIBLE OR EXPOSED CEILING IT SHALL BE INSTALLED IN CONDUIT.

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

- GENERAL NOTES**
- REFERENCE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
  - REFERENCE E2 AND E3 SERIES SHEETS FOR ALL FIXTURE TYPES AND FOR TYPICAL DETAILS.
  - REFERENCE E3 SERIES SHEETS FOR TYPICAL CONDUIT AND BACKBOX INSTALLATION DETAILS.
  - LETTERS IN OR ADJACENT TO EACH FIXTURE OR FIXTURE ROW INDICATES SWITCH AND OR OCCUPANCY SENSOR WHICH CONTROLS THE LIGHTING FIXTURE.
  - CIRCUIT HOMERUNS ARE INDICATED TO SHOW THE LOCATION AND NUMBER OF CIRCUITS TO BE GROUPED TOGETHER.
  - PROVIDE MINIMUM 1/2" CONDUIT AND #12 CIRCUIT CONDUCTORS AS REQUIRED TO CONNECT EACH LIGHTING FIXTURE TO THEIR INDICATED CONTROL DEVICES. (U.O.N.)

- KEY NOTES**
- SEE ARCHITECTURAL DRAWINGS FOR MOUNTING DETAILS FOR TYPE 'B' FIXTURES.



FOOD BANK FLOOR PLAN - LIGHTING  
1/4" = 1'-0"

Consultant

**JOHNSON**  
CONSULTING ENGINEERS, INC.

Power | Lighting | Multimedia  
Communications | Data Networking

Consultant Logo  
12875 Brookprinter Place, Suite 300  
Poway, CA 92064  
P 858.679.4030 | F 858.513.0559  
www.jc6-inc.com

10/28/2017

Agency Approval

FILE NO. 37-C1

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

APPL. # 04-116532

AC. ☒ FLS. ☒ SS. ☒  
DATE NOV 8 2017

Project Title:

**PALOMAR COLLEGE**  
FOOD PANTRY

PALOMAR COLLEGE  
1140 W. MISSION RD.  
SAN MARCOS, CA 92069-1487

No.	Description	Date	No.	Description	Date

Drawing Title:

**FOOD BANK FLOOR PLAN  
LIGHTING**

Architect's Seal

Designed: MB  
Drawn: JR  
QAQC: BG  
Date: 08-07-2017

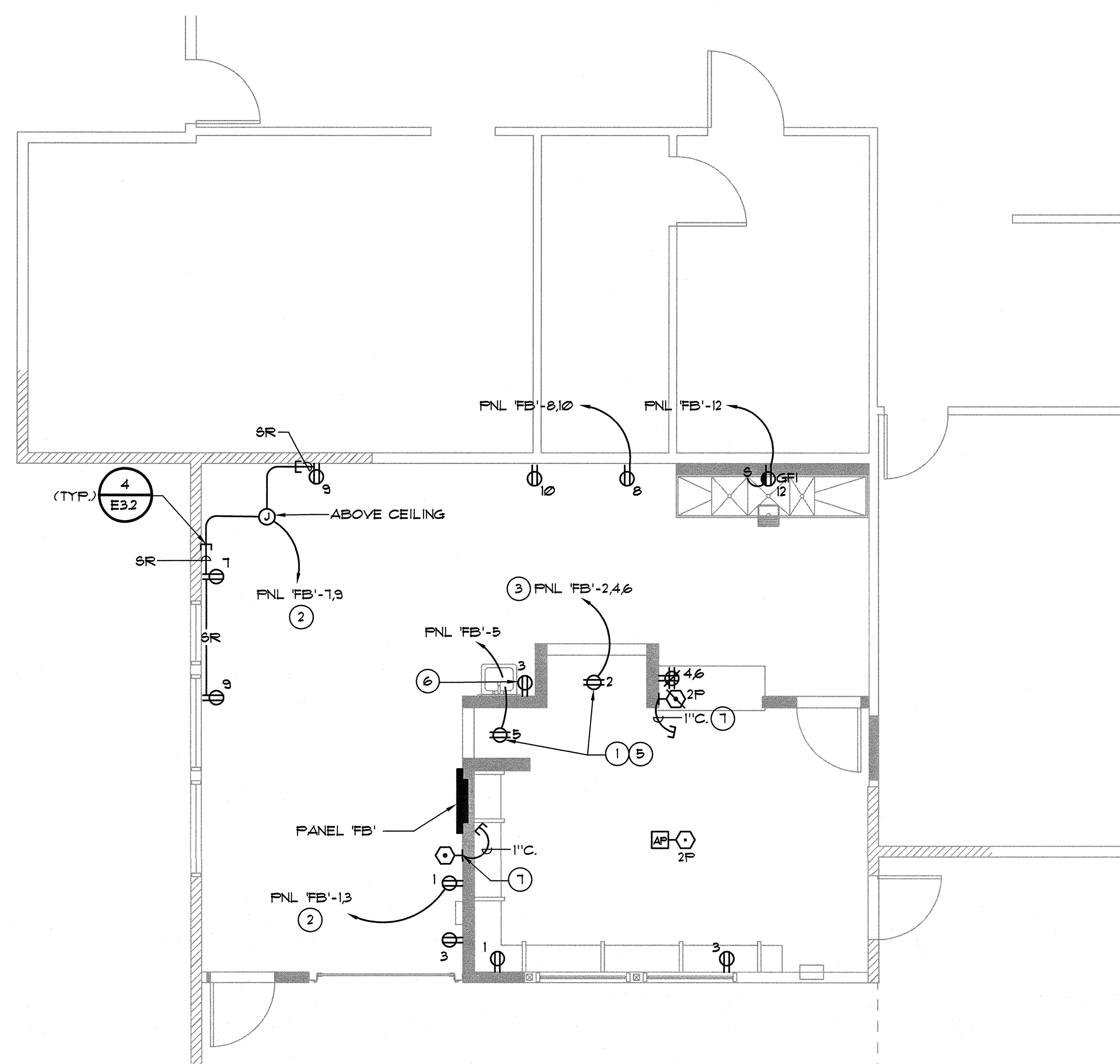
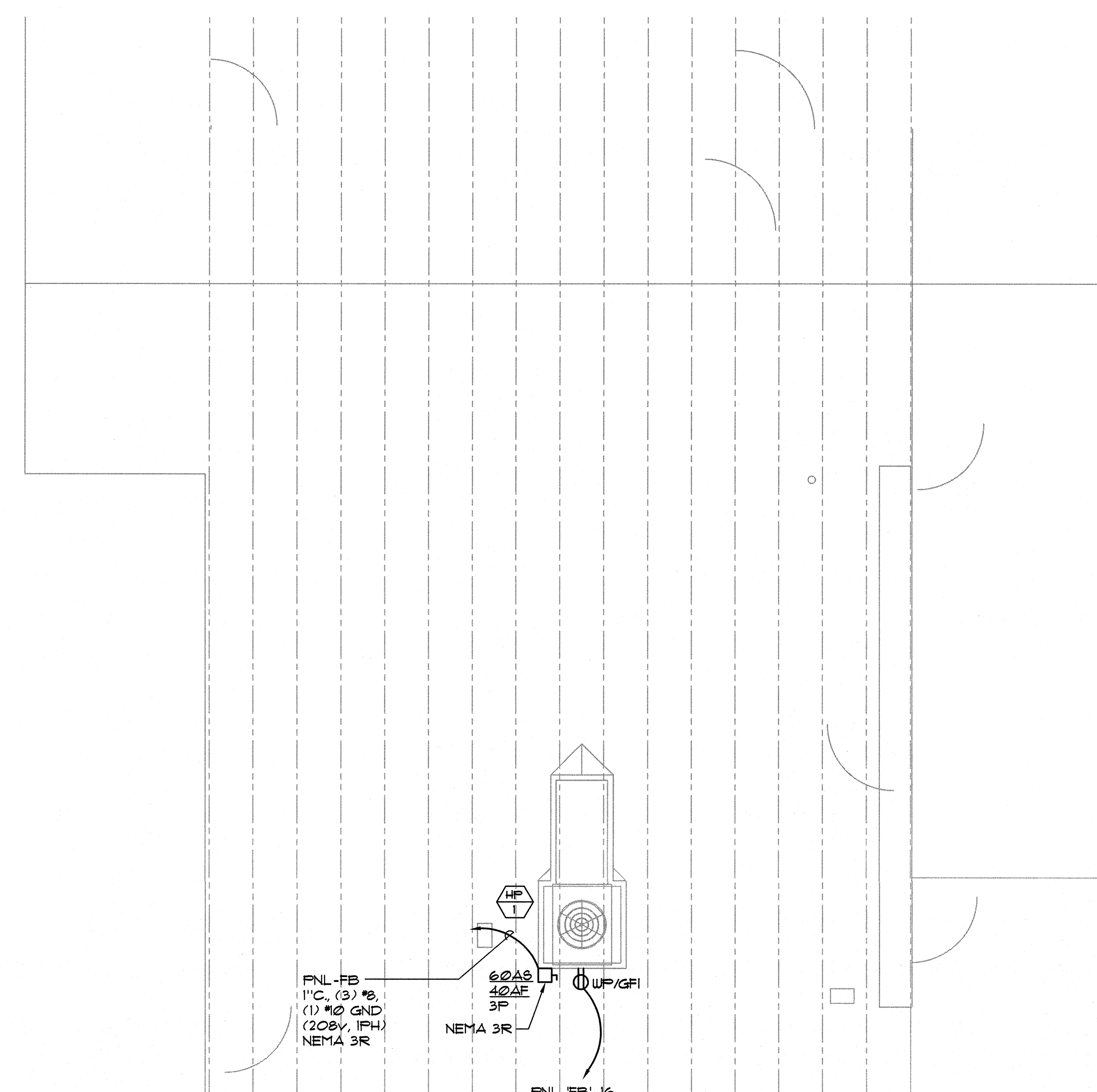
Project No. 5015016  
Scale: AS NOTED  
Drawing No. **E2.1**



1. REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF ALL WALL MOUNTED POWER DEVICES WHERE INDICATED AT MOUNTING HEIGHTS OTHER THAN "48".
2. REFERENCE SHEET E6 SERIES SHEETS FOR MECHANICAL EQUIPMENT SCHEDULE.
3. REFERENCE E3 AND E8 SERIES SHEETS FOR TYPICAL CONDUIT AND BACKBOX INSTALLATION DETAILS.
4. NUMBERS ADJACENT TO EACH POWER DEVICE INDICATE THE CIRCUIT NUMBER TO WHICH THE DEVICE IS TO BE CONNECTED.
5. CIRCUIT HOOKUPS ARE INDICATED TO SHOW THE LOCATION AND NUMBER OF CIRCUITS TO BE GROUPED TOGETHER.
6. PROVIDE MINIMUM 1/2" CONDUIT AND #2 CIRCUIT CONDUCTORS AS REQUIRED TO CONNECT EACH POWER DEVICE TO THEIR INDICATED CIRCUIT (W/O).
7. FIELD VERIFY EXACT ROUTING LOCATION FOR CONCEALED CONDUITS AND RECEPTACLES PRIOR TO POUR.

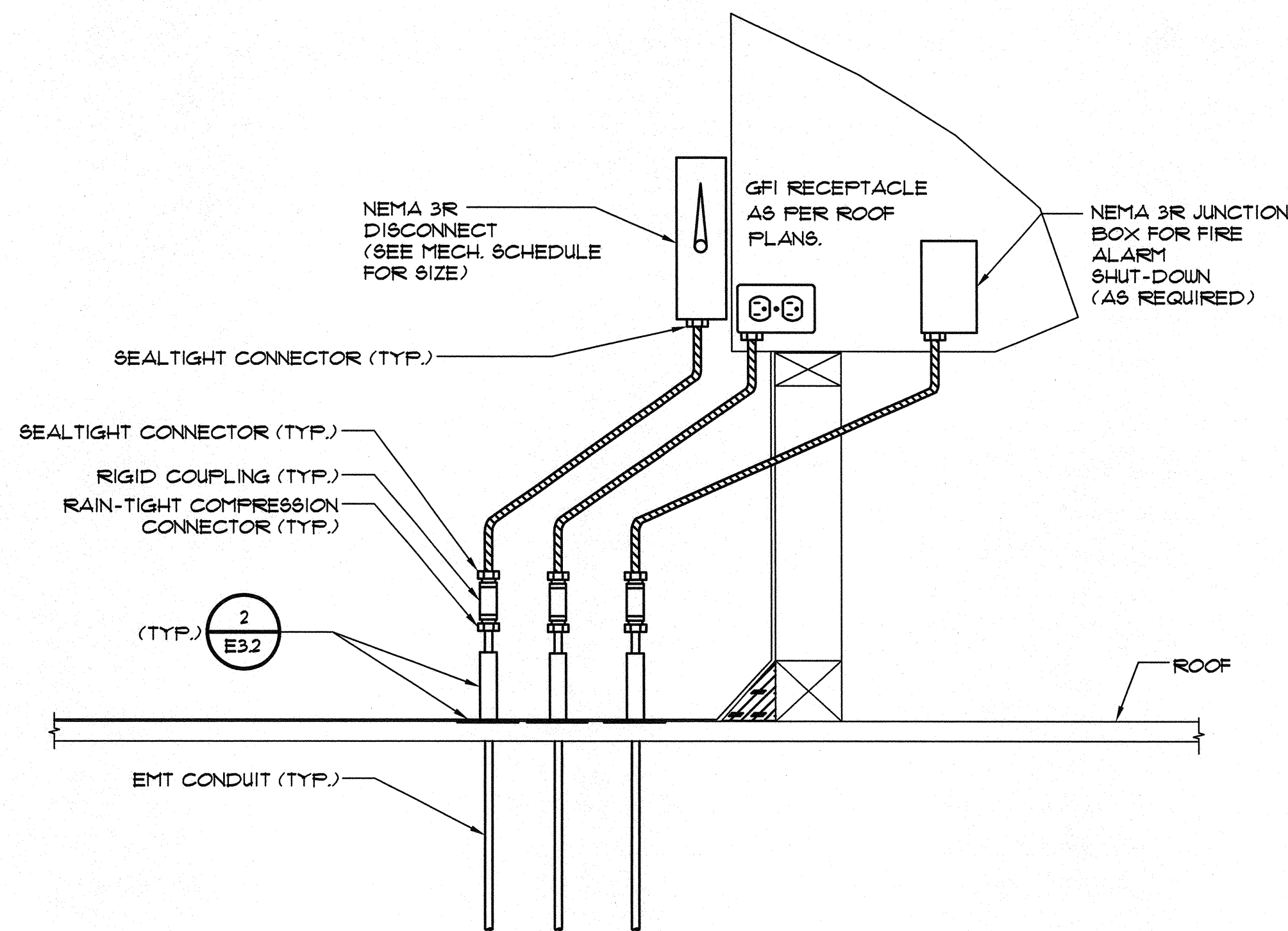
- 1 FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
- 2 2 #2 (HOT), 1 #10 (NEUTRAL), 1 #2 (GND), 1/2".
- 3 3 #2 (HOT), 1 #10 (NEUTRAL), 1 #2 (GND), 1/2".
- 4 4 #2 (HOT), 2 #10 (NEUTRAL), 1 #2 (GND), 3/4".
- 5 MOUNT RECEPTACLE IN CEILING TILE ABOVE REFRIGERATOR
- 6 SINK SENSOR POWER COORDINATE WITH PLUMBING CONTRACTOR FOR EXACT LOCATION.
- 7 RE-LOCATE EXISTING DATA CABLES TO NEW LOCATION. PROVIDE NEW FLOOR PLATES AND INSERTS, MATCH EXISTING TYPE.

120/208 3PH, 4WIRE		100 AMP		Main Breaker		ENCLOSURE TYPE		ENCLOSURE NOTE				
200% Neutral Bus (INTERLOCK)YS Protection (REMOTE)YS Protection				Enclosure		Type 1						
Service Entrance Rating				Lug		NEMA TYPE 1						
Load Side Feed thru Lugs				Surface		NEMA TYPE 3R						
						NEMA TYPE 4X						
GENERAL DISTRIBUTION BREAKER REQUIREMENTS:												
PROVIDE LOCK ON BREAKER DEVICES FOR ALL EMERGENCY LIGHTING, MOTORS, AND FIRE ALARM EQUIPMENT SERVED FROM THIS PANEL												
LCL	NHL	CIRCUIT DESCRIPTION	AMP	POLE	NO	PHASE A	PHASE B	PHASE C	NO AMP POLE	CIRCUIT DESCRIPTION	LCL	NHL
		RECEPTACLES	20	1	1	800			2	20	1	RECEPTATOR
						1152						
		RECEPTACLES	20	1	2		800		4	20	1	RECEPTACLE
							600					
	X	RECEPTATOR	20	1	5			1032	6	20	1	RECEPTACLE
								600				
		RECEPTACLES	20	1	7	800			8	20	1	RECEPTATOR
						1176						
		RECEPTACLES	20	1	9		800		10	20	1	RECEPTATOR
							1176					
X		LIGHTING	20	1	11			500	12	45	1	FRAC UNIT
								3156				
		SPARE	20	1	13				14	2		
						3156						
		SPARE	20	1	15		400		16	20	1	ROOF RECEPTACLE
		SPARE	20	1	17				18	20	1	SPARE
		SPACE	20	1	19				20	20	1	SPACE
		SPACE	20	1	21				22	20	1	SPACE
		SPACE	20	1	23				24	20	1	SPACE
		SPACE	20	1	25				26	20	1	SPACE
		SPACE	20	1	27				28	20	1	SPACE
		SPACE	20	1	29				30	20	1	SPACE
		SPACE	20	1	31				32	20	1	SPACE
		SPACE	20	1	33				34	20	1	SPACE
		SPACE	20	1	35				36	20	1	SPACE
		SPACE	20	1	37				38	20	1	SPACE
		SPACE	20	1	39				40	20	1	SPACE
		SPACE	20	1	41				42	20	1	SPACE
SPECIAL PANEL						NOTE #1						
NOTE						NOTE #2						
NHL = Non Harmonic Load LCL = Long Continuous Load						7084 3778 5288 0 0 125						
TOTAL LOAD PER PHASE 25% LONG CONTINUOUS LOADS						7084 3778 5288 0 0 125						
SUB PANEL						7084 3778 5288 0 0 125						
SUB PANEL						7084 3778 5288 0 0 125						
Wired, Must Load						7084 3778 5288 0 0 125						
177 AMP'S						7084 3778 5288 0 0 125						
CONNECTED LOAD						7084 3778 5288 0 0 125						
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$$\frac{1}{4}'' = 1'-0''$$


1/4" = 1'-0"

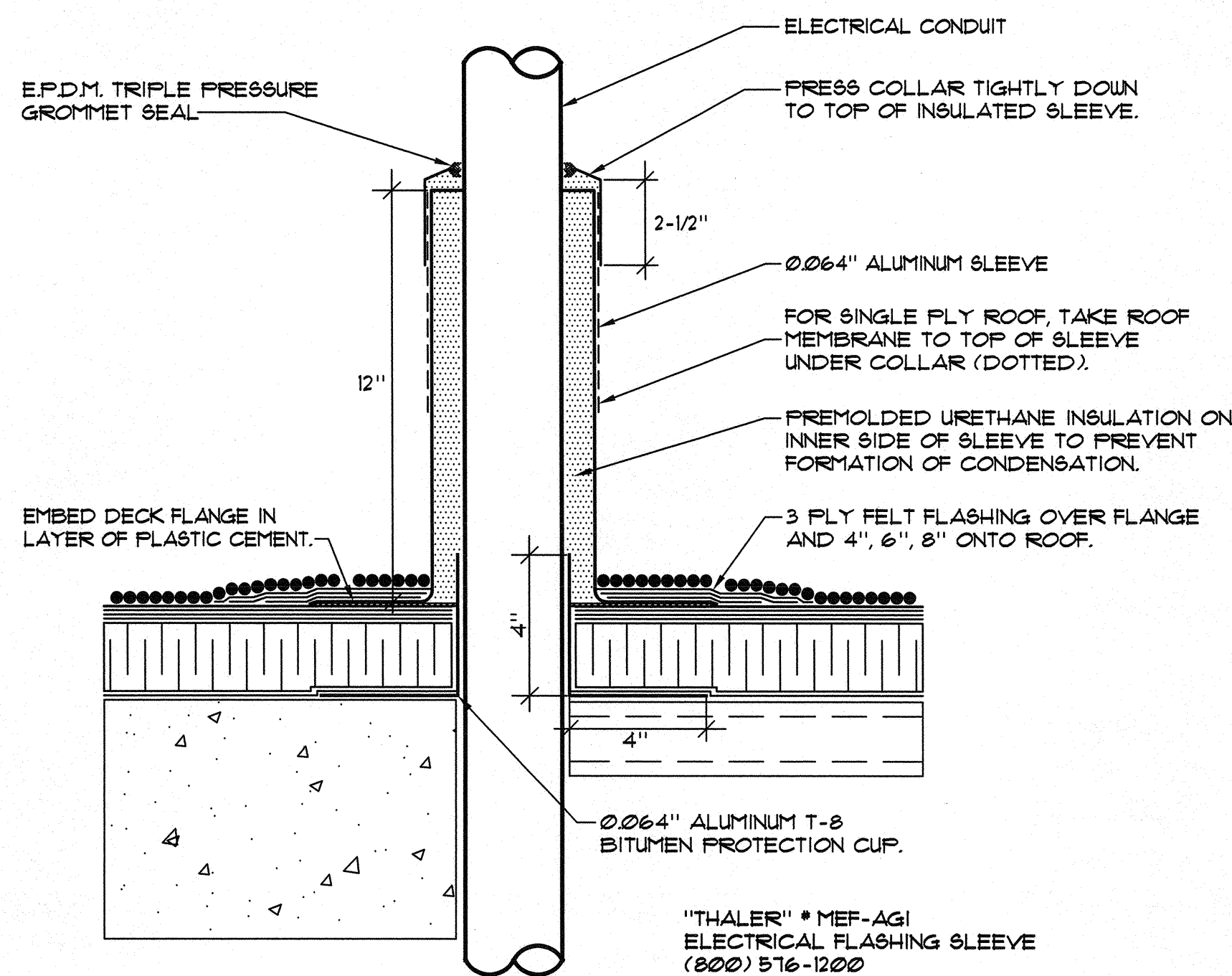




A/C UNIT CONNECTION DETAIL

NO SCALE

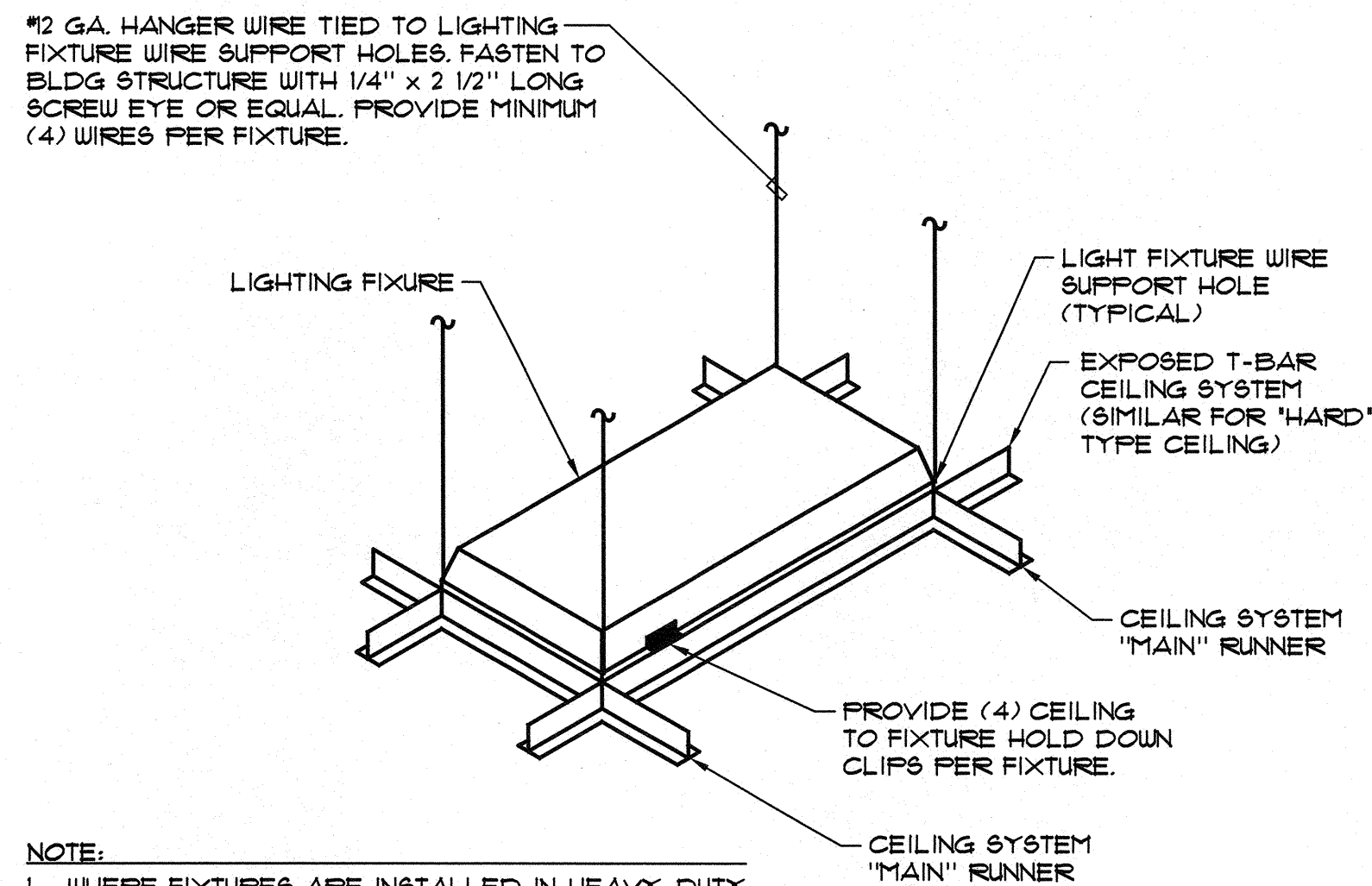
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E3.2



CONDUIT ROOF PENETRATION DETAIL

NO SCALE

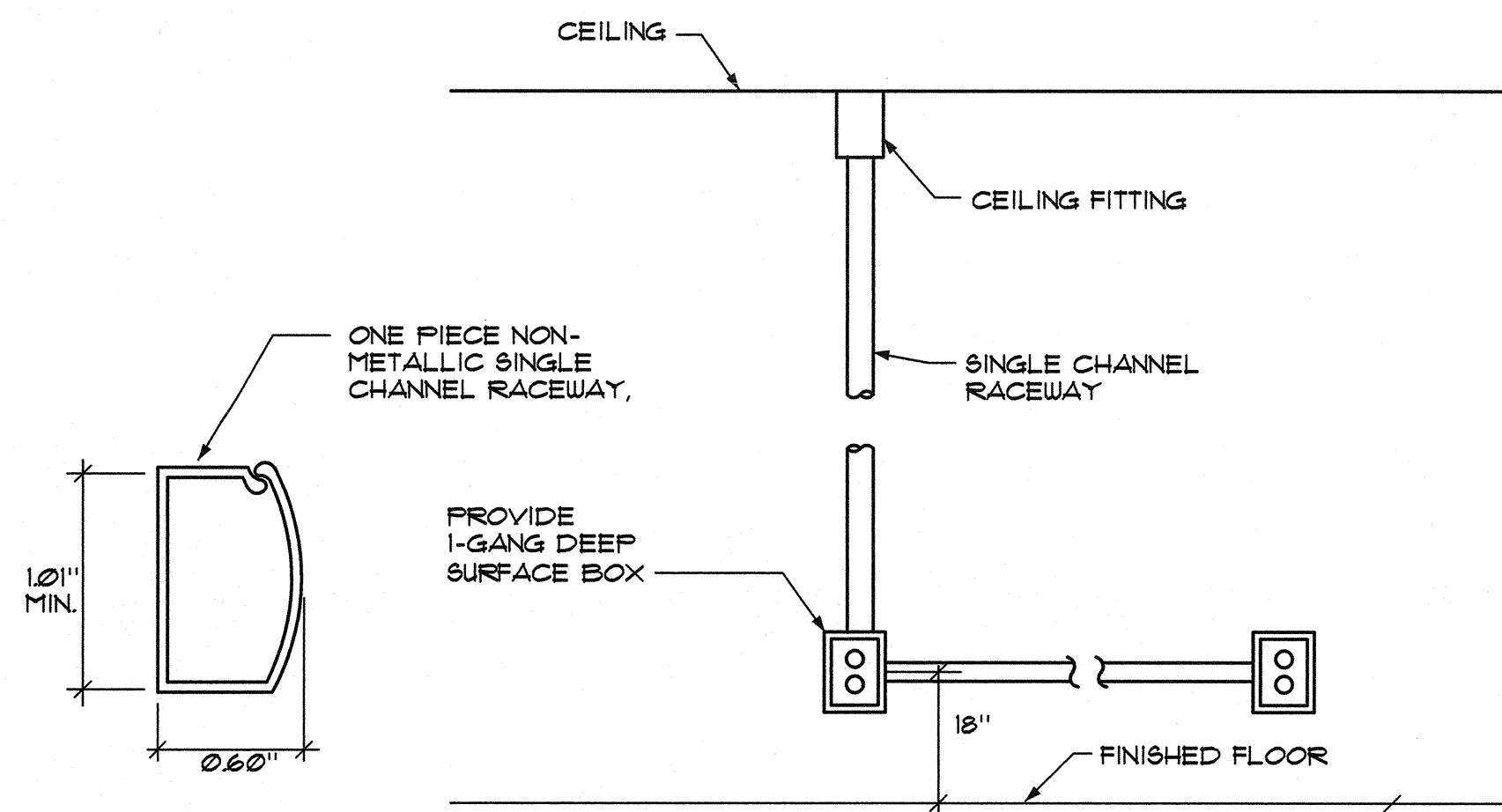
2  
E3.2



BRID LAY-IN FIXTURE SEISMIC RESTRAINT DETAIL

NO SCALE

3  
E3.2



TYPICAL SURFACE RACEWAY SYSTEM DETAIL  
SINGLE CHANNEL RACEWAY

NO SCALE

4  
E3.2

GENERAL NOTES:

1. THE CONTRACTOR WHO INSTALLS SURFACE RACEWAY SHALL PROVIDE FULL STRING IN RACEWAY.
2. SEE SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS.

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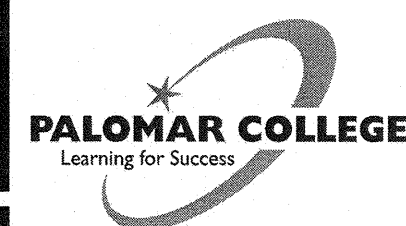
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DATE NOV 08 2017

Project Title:



PALOMAR COLLEGE

FOOD PANTRY

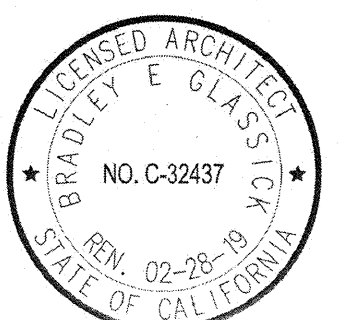
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SAN MARCOS, CA 92069-1487

No.	Description	Date	No.	Description	Date

Drawing Title:

POWER DETAILS

Architect's Seal



Designed: MB	Project No. 5015016
Drawn: JR	Scale: AS NOTED
QA/QC: BG	Drawing No. <b>E3.2</b>
Date: 08-07-2017	



(EX) SIEMENS MODEL FIREFINDER MXL				
SYM	MODEL NO.	DESCRIPTION	C.S.E.M. LISTING	MFG.
001	MXL	FIRE ALARM CONTROL PANEL	7165-0067/0222	SIEMENS
002	HFP-11	INTELLIGENT SMOKE DETECTOR	7272-0067/0203	SIEMENS
003	DB-11	SENSOR BASE	7300-0067/0134	SIEMENS
004	HFT	INTELLIGENT HEAT DETECTOR (ABOVE CEILING)	7270-0067/0224	SIEMENS
005	DB-11	SENSOR BASE	7300-0067/0134	SIEMENS
006	AH	EXTERIOR HORN	7125-0785/0131	COOPER WHEELLOCK
007	LHS	HORN/STROBE (15/30/75/110) cd	7125-0785/0169	COOPER WHEELLOCK
008	LSTC	STROBE (15/30/75/110) cd (CEIL MNT)	7125-0785/0180	COOPER WHEELLOCK
009	FPL	SIGNAL LINE CIRCUIT CONDUCTORS (M)	7161-0059/0101	WEST PENN
010	THHN	AUDIO VISUAL AND POWER CONDUCTORS (AV/P)	N/A	SOUTHWEST

IF OTHER MANUFACTURER IS USED IT IS TO BE U.L. AND CFSM LISTED.

WIRING SCHEDULE			
DES	CONDUCTOR TYPE	WIRE COLOR	CIRCUIT TYPE
M	(1) 1 PR #14 TWISTED SHIELDED	RED/BLACK/SHIELD	SIGNAL LINE CIRCUIT
AV	(2) #12 THHN (UDN DN CALCS)	BLUE/WHITE	NOTIFICATION APP. CIRCUIT (NAC)
P	(2) #12 THHN	RED/BLACK	POWER

Fire Alarm Voltage Drop Calculations					
Calculation Formula:					
Total Current x Feet x 21.6 (Voltage Drop)					
Voltage Drop / 24 Volts x 100 Percent = Percentage Voltage Drop					
Circuit	Device	Devices x Current	Total Current	Distance in Feet	Total Voltage Drop
U.S.	Type				
S 1	Exterior Horn	1	0.080		
	Sig. Module	0	0.000		
	15sec Strobe	1	0.080		
	30sec Strobe	0	0.125		
	75sec Strobe	0	0.250		
	110sec Strobe	0	0.267		
	15sec Ceiling	0	0.097		
	30sec Ceiling	0	0.120		
	75sec Ceiling	0	0.181		
	110sec Ceiling	0	0.202		
	15sec Strobe	0	0.080		
	30sec Strobe	0	0.092		
	75sec Strobe	0	0.165		
	110sec Strobe	0	0.220		
	15sec Ceiling	1	0.085		
	30sec Ceiling	1	0.155		
	75sec Ceiling	0	0.189		
	110sec Ceiling	0	0.249		
	Total		0.430	250	4110
					0.572
					2.38%

Existing Fire Alarm Control Panel			
Siemens Battery Calculations			
Food Pantry			
Type of Device or Equipment	Qty	Current	Total
Main Control Board (RMB-2)	1	0.230	0.230
Monitoring Line Module (ALM-21)	1	0.000	0.000
Dual Signal Unit (DSU)	1	0.024	0.024
Annunciator (AM-4)	1	0.002	0.002
Remote Annunciator (RAC-1)	0	0.000	0.000
Test Detector (AD-1109) w/FP-11	0	0.010	0.000
Sig. Module (DSM-12/22-3)	1	0.080	0.080
Exterior Horn	1	0.080	0.080
15sec Horn/Strobe	1	0.080	0.080
30sec Horn/Strobe	0	0.000	0.000
75sec Horn/Strobe	0	0.000	0.000
110sec Horn/Strobe	0	0.000	0.000
15sec Strobe (Ceiling) Horn/Strobe	0	0.000	0.000
30sec Strobe (Ceiling) Horn/Strobe	0	0.000	0.000
75sec Strobe (Ceiling) Horn/Strobe	0	0.000	0.000
110sec Strobe (Ceiling) Horn/Strobe	0	0.000	0.000
15sec Strobe Only	1	0.080	0.080
30sec Strobe Only	1	0.092	0.092
75sec Strobe Only	0	0.165	0.000
110sec Strobe Only	0	0.220	0.000
15sec Strobe Only (Ceiling)	0	0.085	0.000
30sec Strobe Only (Ceiling)	0	0.155	0.000
75sec Strobe Only (Ceiling)	0	0.189	0.000
110sec Strobe Only (Ceiling)	0	0.249	0.000
Total Standby Amperage		0.346	
Total Alarm Amperage		0.811	
Standby Time Required			
24 Hours x Total Standby Amperage	=	24 x 0.346	= 8.292 Amp Hours
Alarm Time Required			
0.83 ( 5 Min. ) x Total Alarm Amperage	=	0.83 x 0.811	= 0.667 Amp Hours
Total Required	=		8.959 Amp Hours
Minimum Battery Amp Hour Required	=		24 Amp Hours

## FIRE ALARM MONITORING NOTE:

1. AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY CFC SECTION 907. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UJFX OR UJUS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.

## FIRE ALARM GENERAL REQUIREMENTS:

1. THE COMPLETE INSTALLATION SHALL BE REVIEWED AND APPROVED BY THE ABOVE LOCAL MANUFACTURERS REPRESENTATIVE. SEE SPECIFICATIONS (28 30 00), FOR ADDITIONAL CONTRACTOR QUALIFICATIONS AND REQUIREMENTS.
2. UNLESS OTHERWISE NOTED SOLID LINES BETWEEN DEVICES SHALL BE 3/4" E.M.T. ROUTED CONCEALED ABOVE CEILINGS OR IN WALLS. DASHED LINES INDICATE 3/4" P.V.C. UNDERGROUND CONDUIT. ALL WIRING TYPES AND QUANTITIES SHOWN ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL PROVIDE ALL WIRING AS REQUIRED TO MAKE A FULLY OPERATIONAL SYSTEM. SHOP DRAWINGS AND OR AS-BUILT DOCUMENTS SHALL INDICATE ALL WIRING PROVIDED.
3. THE AUDIBILITY OF FIRE ALARM WARNING DEVICES SHALL BE AUDIBLE THROUGH THE OCCUPANCY WITH A MINIMAL SOUND LEVEL 15 db's OVER THE AMBIENT NOISE LEVEL. ADD ADDITIONAL DEVICES AS REQUIRED.
4. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A REACCEPTANCE TEST OF THE ENTIRE SYSTEM SHALL BE PERFORMED IN THE PRESENCE OF THE ENFORCING AGENCY AND IN ACCORDANCE WITH SPECIFICATIONS (28 30 00). THE CONTRACTOR SHALL FURNISH db METERS AND ALL OTHER EQUIPMENT TO PERFORM THESE TESTS.
5. ALL CONDUIT PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL PREVENT THE PASSAGE OF HEAT, SMOKE AND FIRE GASES. ALL PENETRATIONS SHALL COMPLY WITH U.L. ASSEMBLY UL-1001. REFER TO THROUGH-PENETRATION FIRESTOP DETAIL ON THE DETAIL SHEET.
6. ALL OPERATING HARDWARE AT INITIATING DEVICES SHALL NOT REQUIRE TIGHT GRASPING, FINGERING OR TWISTING OF THE WIRE, AND THE FORCE REQUIRED TO OPERATE SHALL BE LESS THAN 5 POUNDS.

## APPLICABLE CODES

- 2016 BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24 C.C.R.)
- 2016 CALIFORNIA BUILDING CODE (PART 2, TITLE 24 C.C.R.)
- 2012 INTERNATIONAL BUILDING CODE WITH 2013 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24 C.C.R.)
- 2011 NATIONAL ELECTRICAL CODE AND 2013 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24 C.C.R.)
- 2012 UNIFORM MECHANICAL CODE WITH 2013 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24 C.C.R.)
- 2012 UNIFORM PLUMBING CODE AND 2013 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA ENERGY CODE (PART 6, TITLE 24 C.C.R.)
- 2016 CALIFORNIA FIRE CODE (PART 9, TITLE 24 C.C.R.)
- 2015 INTERNATIONAL FIRE CODE AND 2015 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
- 2016 CALIFORNIA REFERENCED STANDARDS (PART 12, TITLE 24 C.C.R.)
- TITLE 19 C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

## APPLICABLE STANDARDS

- NFPA 13 AUTOMATIC SPRINKLER SYSTEMS 2016 EDITION
- NFPA 14 STANDPIPE SYSTEMS (CA AMENDED) 2016 EDITION
- NFPA 17A WET CHEMICAL SYSTEMS 2016 EDITION
- NFPA 20 STATIONARY PUMPS 2016 EDITION
- NFPA 24 PRIVATE FIRE ALARMS (CA AMENDED) 2016 EDITION
- NFPA 72 NATIONAL FIRE ALARM CODE (CA AMENDED) 2016 EDITION
- NFPA 80 FIRE DOOR AND OTHER OPENING PROTECTIVES 2016 EDITION
- NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 2016 EDITION
- REFERENCE CODE SECTION FOR NFPA STANDARDS - 2016 CBC (951) CHAPTER 35. SEE CHAPTER FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

MAXIMUM NUMBER OF CONDUCTORS IN TRADE SIZES OF CONDUIT OR TUBING MINIMUM CONDUIT SIZE FOR THIS PROJECT IS 3/4"										
CONDUIT TRADE SIZE	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
TYPE LETTERS	CONDUCTOR									
THWN	14	12	24	28	56	124	184			
THHN	10	8	11	16	32	44	73	104	160	136
AREA—SQUARE INCHES										
TRADE SIZE	INTERNAL DIAMETER INCHES	100% INCHES	OVER 2 CONDUITS	1	2	3	4	5	6	7
1/2	.822	.30	.12	36%	66%	99%	X	X	X	X
3/4	.824	.53	.21	19%	36%	57%	76%	95%	X	X
1	1.049	.86	.34	12%	24%	36%	48%	60%	72%	84%
1 1/4	1.380	1.50	.60	7%	14%	21%	28%	35%	42%	49%
1 1/2	1.610	2.04	.82	5%	10%	15%	20%	25%	30%	35%
2	2.067	3.36	1.34	3%	6%	9%	12%	15%	18%	21%

FIRE ALARM SEQUENCE OF OPERATION					
ACTION	DEVICE	MANUAL PULL STATION	AREA/DUCT SMOKE/HEAT DETECTOR	AC POWER FAILURE	SPRINKLER ACTIVATION TAMPER SW.
SOUND ALARM THROUGHOUT BLDG.	N/A	YES	NO	N/A	N/A
ACTIVATE RELAY FOR MONITORING	N/A	YES	YES	N/A	N/A
ANNUNCIATE AT PANEL AND ANNUNCIATOR	N/A	YES	YES	N/A	N/A
SOUND TROUBLE BUZZER	N/A	ON WIRING FAULT	YES	N/A	N/A
SOUND SPRINKLER BELL	N/A	NO	NO	N/A	N/A
REPORT TO MONITORING STATION	N/A	YES	YES	YES	N/A
INITIATE SHUTDOWN OF HVAC UNITS	N/A	YES	NO	N/A	N/A

## FIRE ALARM SYMBOL LEGENDS

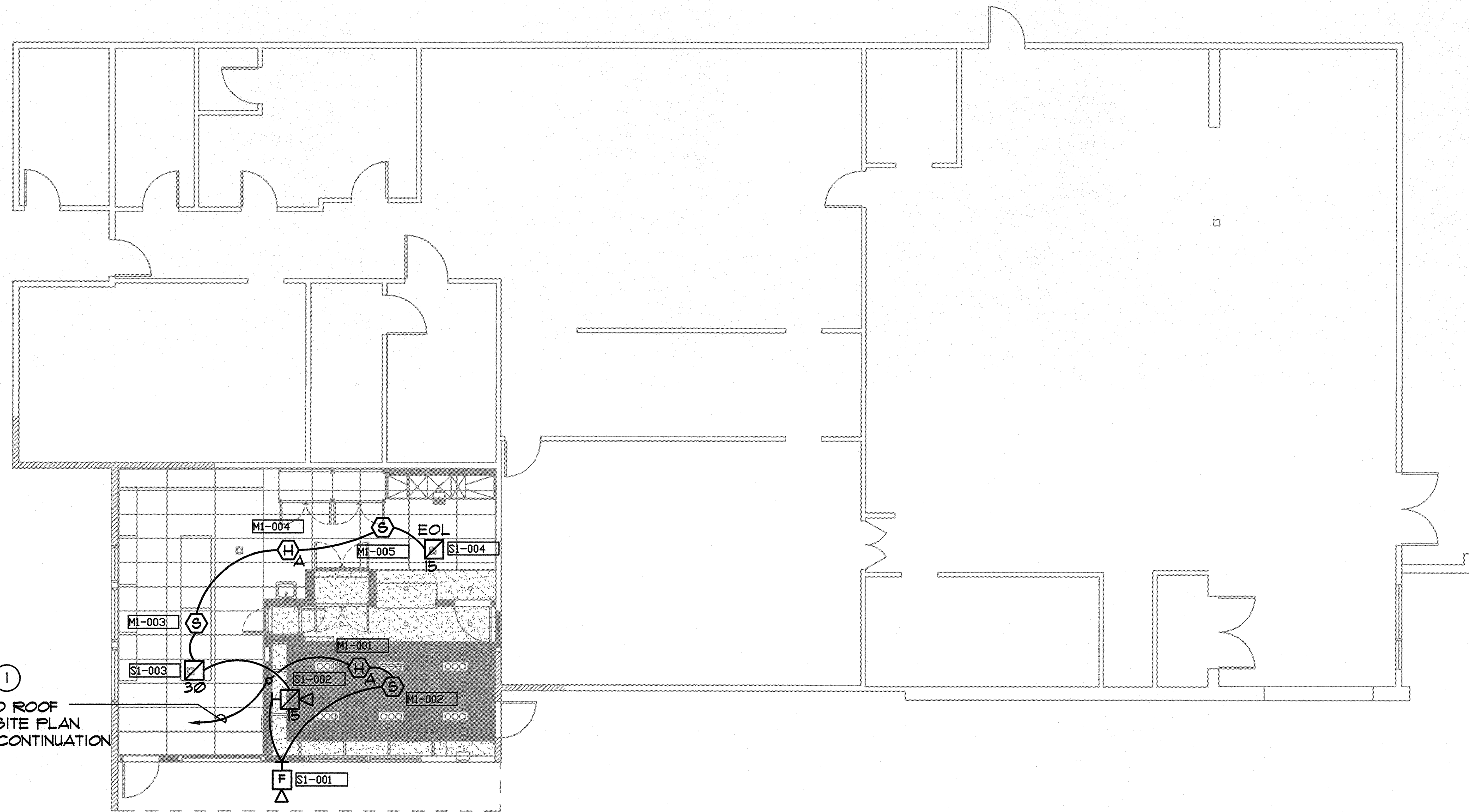
- 81 WALL MOUNTED FLASHING LIGHT STROBE MOUNTED 480°-36" AFF. OR 6" BELOW CEILING TO BOTTOM OF DEVICE WHICHEVER IS LOWER. ENTIRE LENS MUST BE WITHIN THE 480°-36" DIMENSION. (15 = STROBE CANDELA RATING) (S1 = SIGNAL CIRCUIT IDENTIFICATION)
- 91 CEILING MOUNTED FLASHING LIGHT STROBE (15 = STROBE CANDELA RATING) (S1 = SIGNAL CIRCUIT IDENTIFICATION)
- 61 CEILING MOUNTED SMOKE DETECTOR

EOL END OF LINE RESISTOR

**FIRE ALARM NOTE:**  
THIS FIRE ALARM DESIGN IS A COMPLETE PLAN SUBMITTAL IN ACCORDANCE WITH 2010 CBC 907.1.1

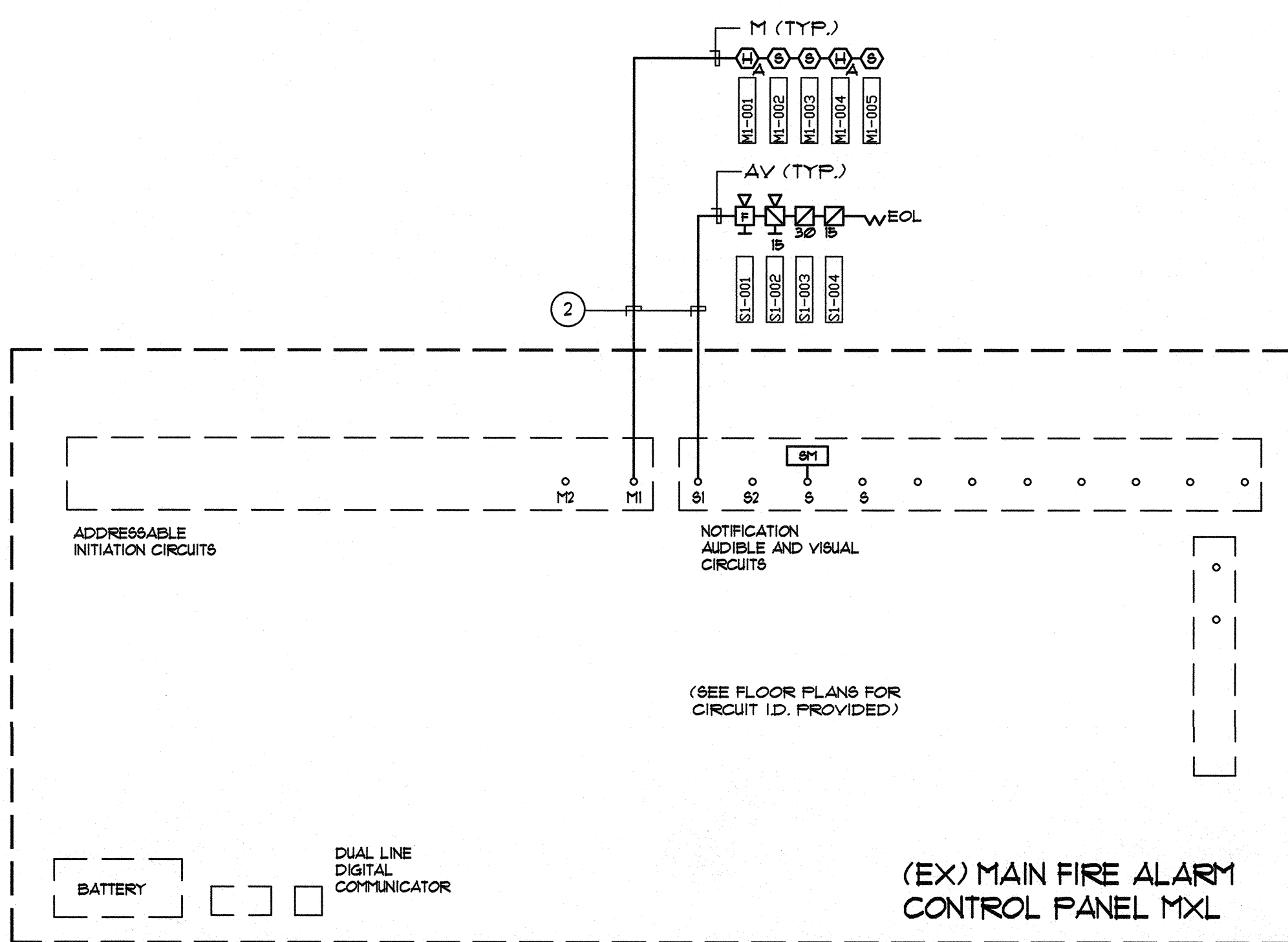
**FULLY AUTOMATIC FIRE ALARM DESIGN:**  
THIS PROJECT IS DESIGNED TO COMPLY WITH ALL REQUIREMENTS FOR A FULLY PROTECTED AUTOMATIC FIRE ALARM SYSTEM.

**EXPANSION OF EXISTING SYSTEM:**  
THIS PROJECT ADDS TO AND OR MODIFIES AN EXISTING SYSTEM, PREVIOUSLY APPROVED BY DSA. ALL NEW COMPONENTS ARE COMPATIBLE WITH THE EXISTING SYSTEM EQUIPMENT.



## FOOD BANK FLOOR PLAN - FIRE ALARM

1/8" = 1'-0"



## FIRE ALARM RISER DIAGRAM

NO SCALE

# HMC Architects

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

## GENERAL NOTES:

1. REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF ALL WALL MOUNTED DEVICES.
2. REFERENCE EB AND ES SERIES SHEETS FOR TYPICAL CONDUIT AND BACKBOX INSTALLATION DETAILS.
3. REFERENCE RISER DIAGRAMS FOR TYPICAL CONDUIT SIZES AND INITIATION ZONE CIRCUIT IDENTIFICATIONS.
4. REFERENCE MECHANICAL PLANS FOR EXACT LOCATION OF ALL DUCT DETECTORS AND SMOKE DAMPER LOCATIONS.
5. UNLESS OTHERWISE NOTED SOLID LINES BETWEEN DEVICES SHALL BE 3/4" E.M.T. ROUTED CONCEALED ABOVE CEILINGS OR IN WALLS. DASHED LINES INDICATE 3/4" P.V.C. UNDERGROUND CONDUIT. ALL WIRING TO BE PROVIDED PER MANUFACTURER SHOP DRAWINGS.
6. CONTRACTOR SHALL PROVIDE CEILING ACCESS PANEL AT ALL NON-LAYIN TYPE CEILINGS, WHERE HEAT DETECTOR ABOVE CEILING IS INDICATED.
7. PROVIDE WIRE PROTECTIVE GUARD OVER ALL FIRE ALARM DEVICES LOCATED IN THE FOLLOWING AREAS: GYMNASIUM, LOCKER ROOMS, SHOP AREAS, AND ANY OTHER AREA WHERE DEVICES MAY BE SUBJECT TO CONTACT.

## KEY NOTES:

1. PROVIDE CONNECTION TO "FACP", REFER TO SITE PLAN, SEE KEYNOTE "A" ON SHEET E11 FOR MORE INFORMATION.
2. PROVIDE ADDITIONAL NAC AND SLC TO EXISTING FIRE ALARM PANEL, PROVIDE ALL SOFTWARE, PROGRAMMING AND HARDWARE.

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AC. FLS. 16 SS. 16  
DATE NOV 0 8 2017

Project Title:

PALOMAR COLLEGE

FOOD PANTRY

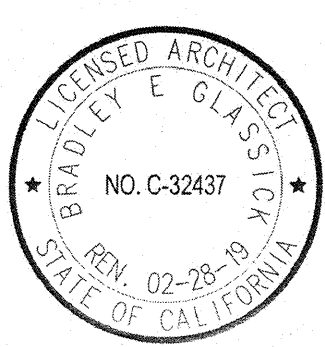
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No.	Description	Date	No.	Description	Date

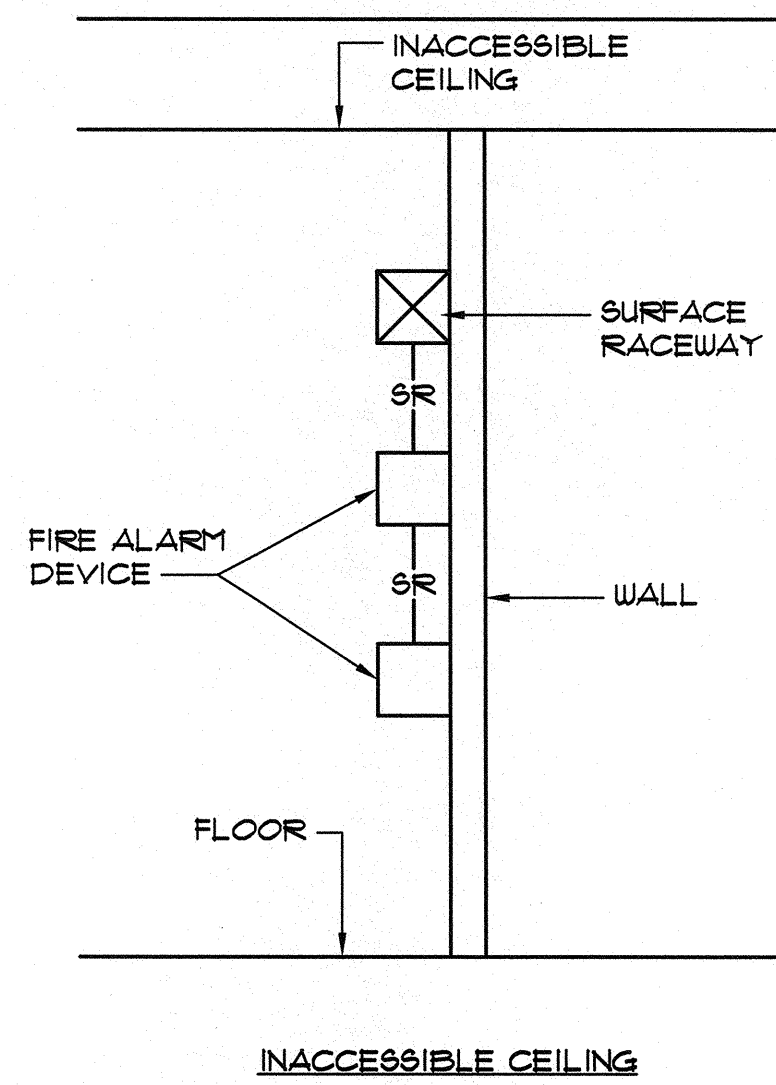
Drawing Title:

FOOD BANK FLOOR PLAN  
FIRE ALARM

Architect's Seal	Designed: MB	Project No. 5015016
	Drawn: JR	Scale: AS NOTED
	QA/QC: BG	Drawing No. E5.1
	Date: 08-07-2017	

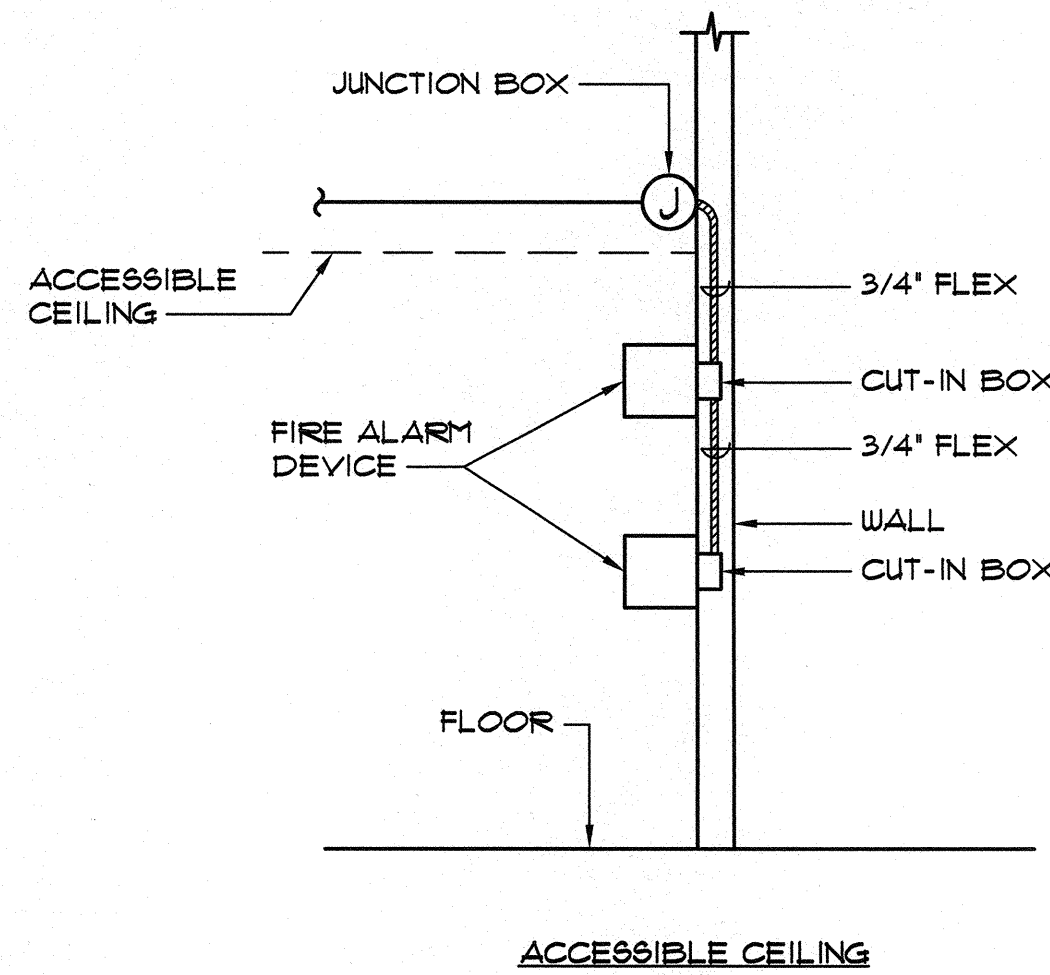






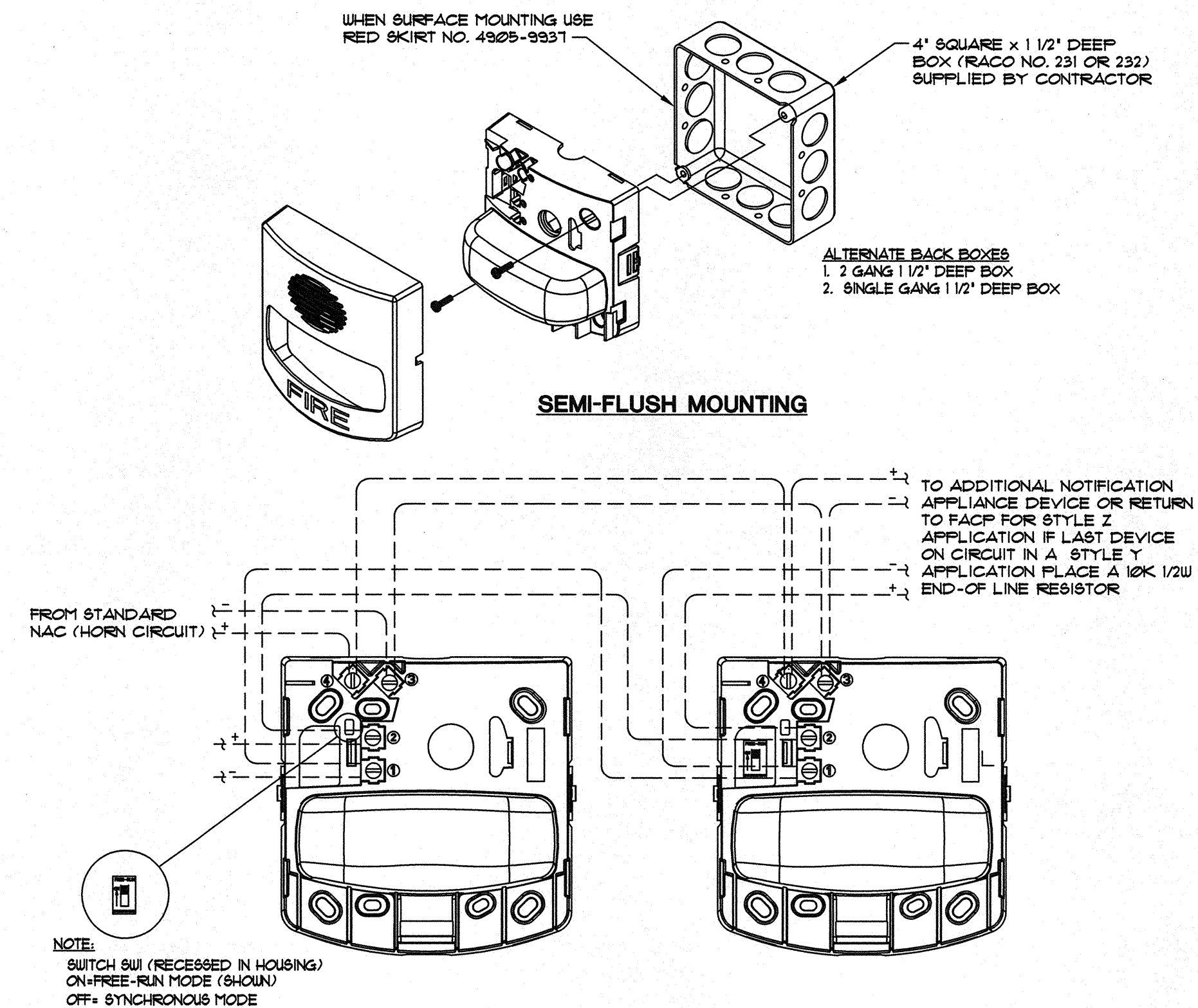
TYPICAL SURFACE RACEWAY DETAIL  
INACCESSIBLE CEILING  
NO SCALE

1  
E5.2



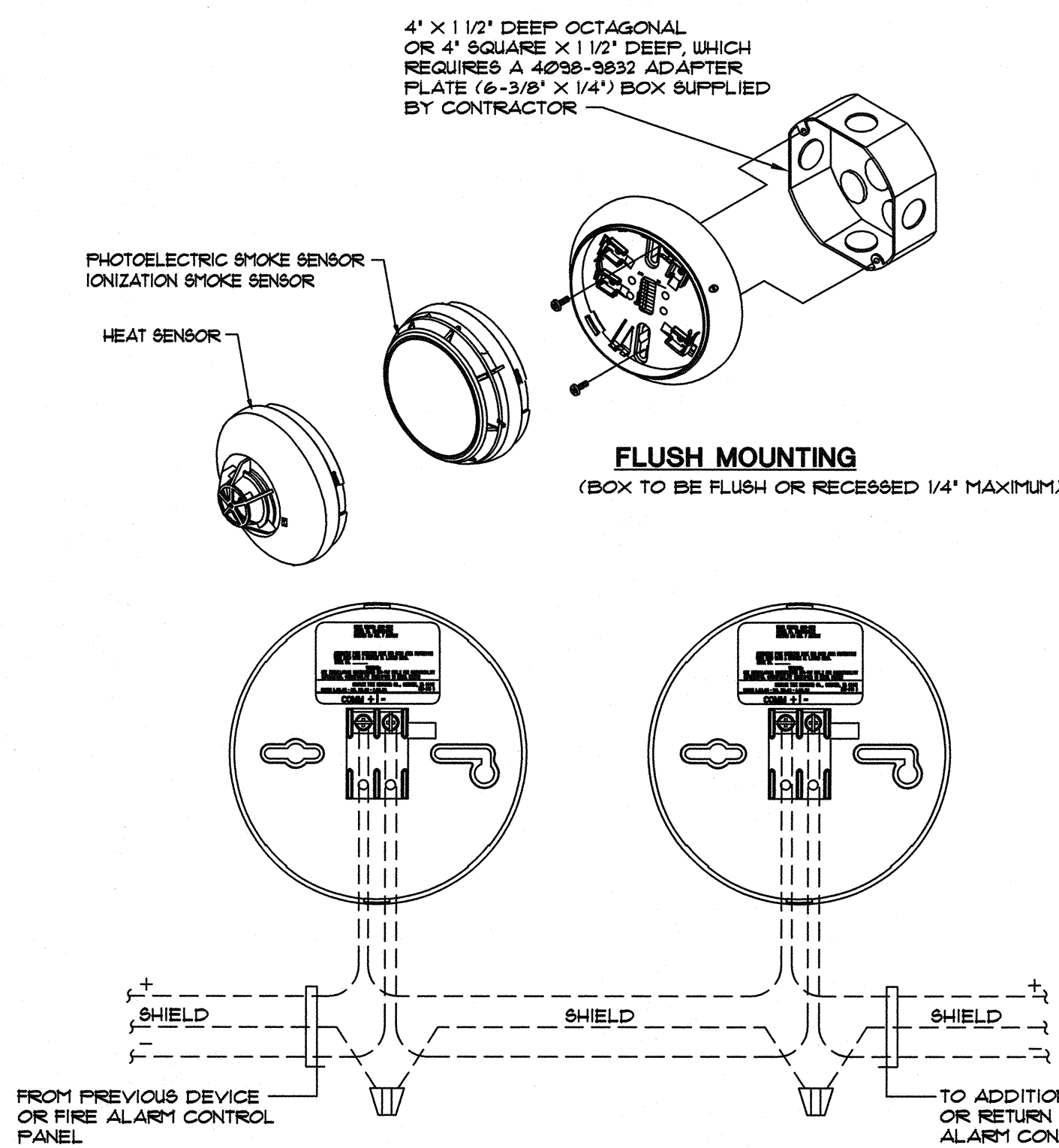
TYPICAL CUT-IN BOX DETAIL  
ACCESSIBLE CEILING  
NO SCALE

2  
E5.2



NON-ADDRESSABLE AUDIO/VISIBLE NOTIFICATION APPLIANCES  
NO SCALE

3  
E5.2



STANDARD SENSOR BASE  
NO SCALE

4  
E5.2

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AC. FLS. SS.  
DATE NOV 8 2017

Project Title:

**PALOMAR COLLEGE**  
FOOD PANTRY

PALOMAR COLLEGE  
1140 W. MISSION RD.  
SAN MARCOS, CA 92069-1487

No.	Description	Date	No.	Description	Date

Drawing Title:  
**FIRE ALARM DETAILS**

Architect's Seal

DESIGNED: MB  
DRAWN: JR  
QA/QC: BG  
DATE: 08-07-2017

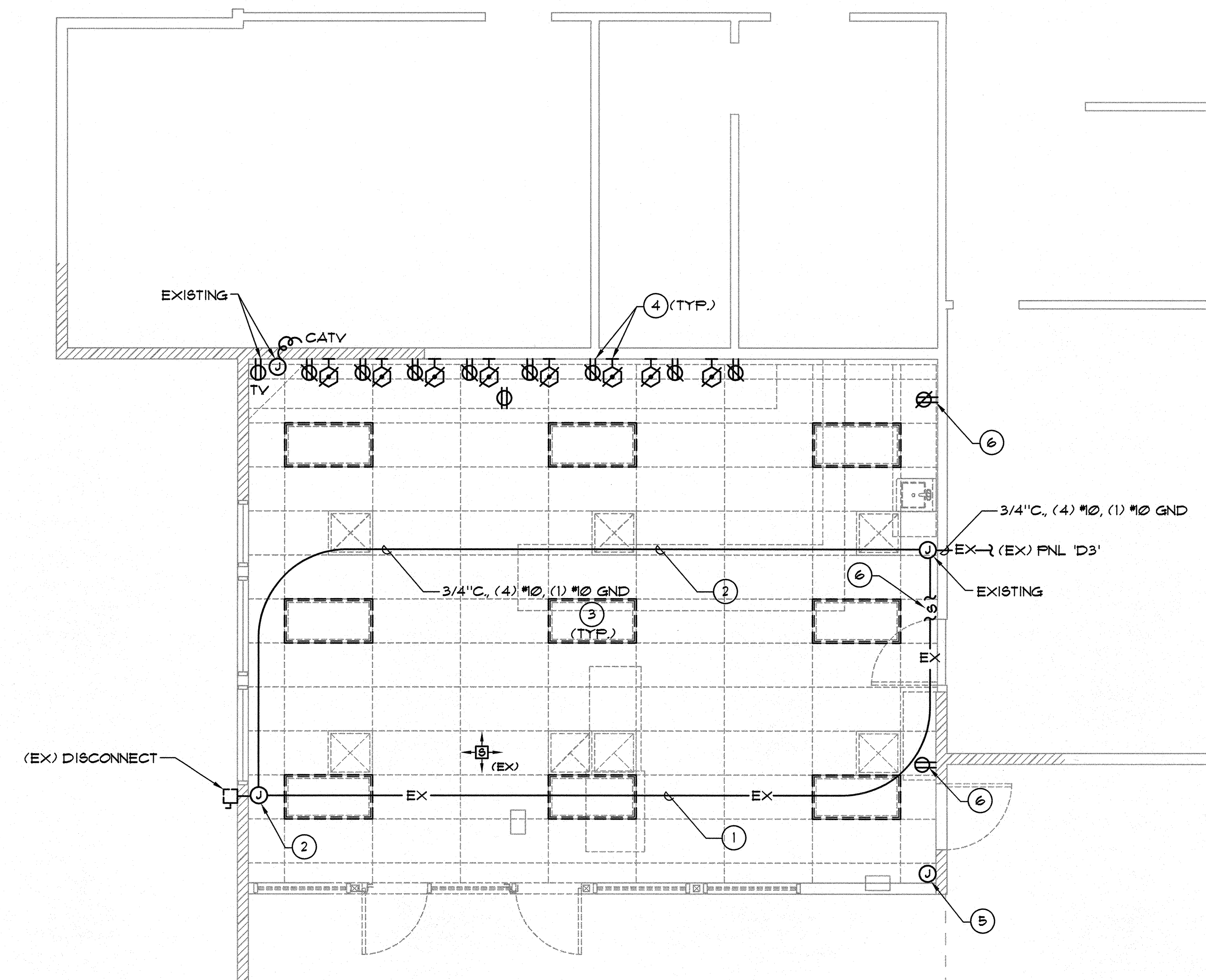
Project No. 5015016  
Scale: AS NOTED  
Drawing No. E5.2



- DEMOLITION GENERAL NOTES:**
- ALL ITEMS SHOWN ON THIS DRAWING ARE EXISTING TO BE REMOVED UNLESS OTHERWISE NOTED. SEE REQUIREMENTS BELOW FOR SCOPE OF WORK. ALL OTHER ELECTRICAL ITEMS IN THIS BUILDING ARE EXISTING TO REMAIN, MAINTAIN POWER CIRCUIT CONTINUITY UNTIL NEW SOURCE IS ENERGIZED AND READY FOR TRANSFER, REFER TO POWER AND LIGHTING PLANS.
  - ALL ELECTRICAL DEMOLITION WORK SHALL BE DIRECTED BY THE ELECTRICAL CONTRACTOR.

- GENERAL DEMOLITION REQUIREMENTS**
- LIGHTING FIXTURES**  
WHERE EXISTING LIGHTING FIXTURES ARE TO BE REMOVED, AND ARE NOT RELOCATED, CONTRACTOR SHALL DISPOSE OF ALL FIXTURES INCLUDING LAMPS AND BALLAST.
  - WIRING DEVICES**  
WHERE EXISTING SWITCHES OR RECEPTACLES ARE TO BE REMOVED, THE CONTRACTOR SHALL DISPOSE OF ALL DEVICES AS REQUIRED.
  - COMMUNICATION DEVICES**  
WHERE EXISTING TELEPHONE/INTERCOM AND CLOCK HEAD END EQUIPMENT, PHONES, SPEAKERS AND OTHER ASSOCIATED EQUIPMENT ARE TO BE REMOVED, THE CONTRACTOR SHALL DISPOSE OF ALL DEVICES AND EQUIPMENT AS REQUIRED.
  - ALL BOXES, EXPOSED CONDUIT, WIRE, AND OTHER ITEMS ASSOCIATED WITH ELECTRICAL EQUIPMENT TO BE REMOVED, SHALL BE DISCONNECTED, REMOVED AND DISPOSED OF BY THE CONTRACTOR AS REQUIRED, UNLESS SPECIFICALLY NOTED OTHERWISE CUT AND CAP CONCEALED CONDUITS, PATCH, SEAL AND REPAIR SURFACE TO MATCH ADJACENT AREA WHERE BOXES ARE REMOVED.

- KEY NOTES:**
- (EX) 3/4" C. AND FEEDER, DISCONNECT AND REMOVE.
  - PROVIDE NEW ROUTING OF FEEDER IN KEY NOTE #1, PROVIDE ALL WIRE, CONDUIT, CONDUIT HANGERS AND JUNCTION BOXES.
  - DISCONNECT AND REMOVE ALL LIGHT FIXTURES, DISCONNECT AND REMOVE ALL CONDUIT, WIRING AND JUNCTION BOXES. TYPICAL OF 3 FIXTURES.
  - DISCONNECT AND REMOVE ALL DATA AND POWER RECEPTACLES FROM THIS WALL, DISCONNECT AND REMOVE ALL CONDUIT AND WIRING BACK TO SOURCE. KEEP SAFE FOR RE-USE (3) THREE DATA DROPS FOR RELOCATION, SEE SHEET E31 FOR RELOCATED DATA DROPS. SEE SHEET E11 FOR DATA IDF LOCATION.
  - DISCONNECT AND REMOVE EXISTING SURFACE BOX AND ALL WIRING.
  - DISCONNECT AND REMOVE EXISTING RECEPTACLE, SWITCH AND PLATES, SAFE OFF CIRCUIT WIRING. PROVIDE BLANK PLATE.



**FOOD BANK DEMOLITION FLOOR PLAN**  
1/4" = 1'-0"



Consultant

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10/28/2017

Agency Approval

FILE NO. 37-C1

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

APPL. # 04-116532

AC: *[Signature]* FLS: *[Signature]* SS: *[Signature]*  
DATE: NOV 8 2017

Project Title:

**PALOMAR COLLEGE**  
FOOD PANTRY

PALOMAR COLLEGE  
1140 W. MISSION RD.  
SAN MARCOS, CA 92069-1487

No.	Description	Date	No.	Description	Date

Drawing Title:  
**FOOD BANK DEMOLITION  
FLOOR PLAN**

Architect's Seal 	Designed: MB Drawn: JR QAQC: BG Date: 08-07-2017	Project No. 5015016 Scale: AS NOTED Drawing No. <b>E10.1</b>
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