

KEYNOTES
NO. Note - Detail

NOTES

1. REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS

Consultant Seal	Agency Approval	FILE NO.
	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT	
	APPL. _____	
	ACS _____	FLS _____ SSS _____
	DATE _____	

Project Title	PALOMAR COMMUNITY COLLEGE	
	BEHAVIORAL HEALTH NB-2 REMODEL	
	1140 W. MISSION RD. SAN MARCOS, CA 92069-1487	

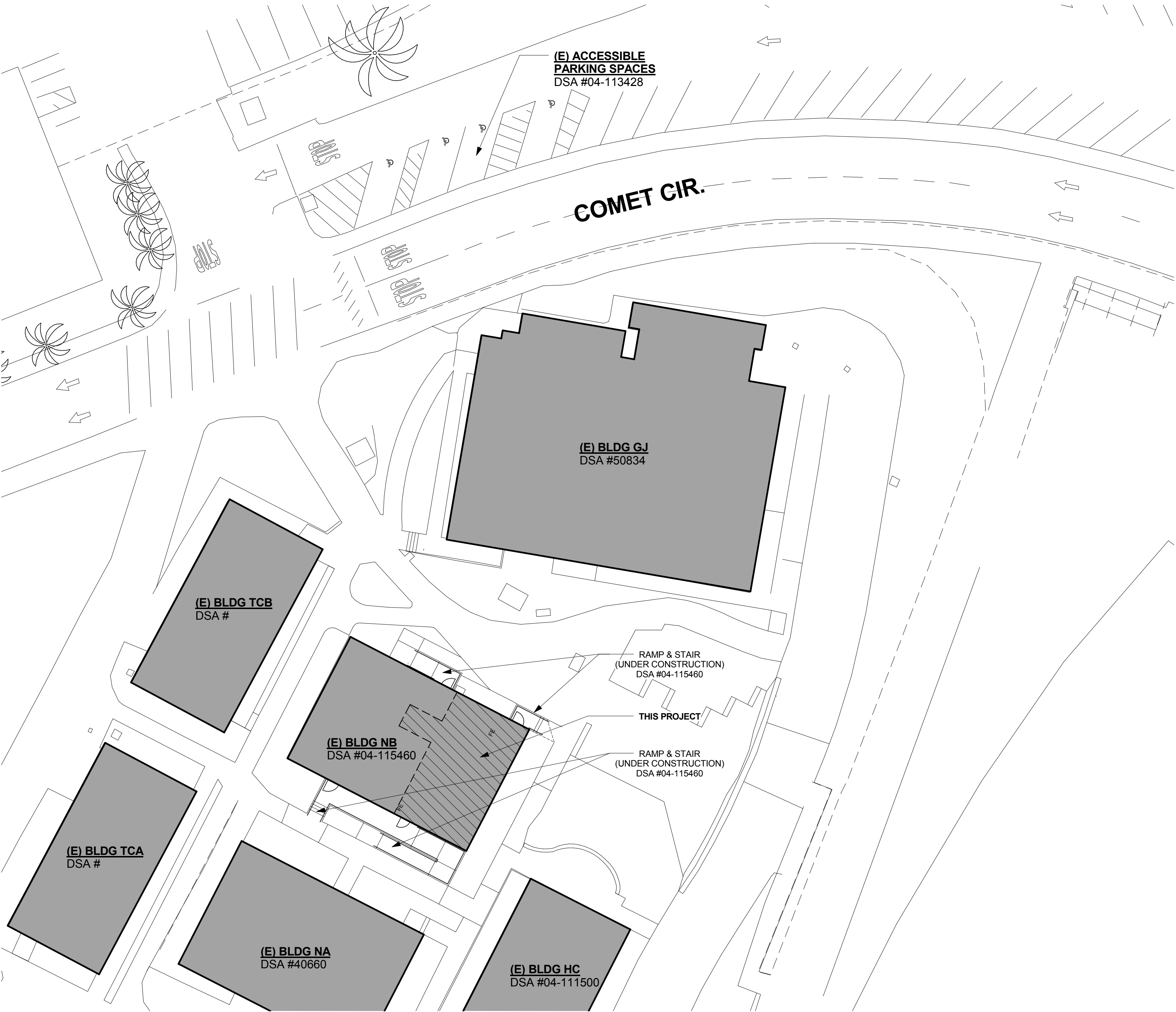
No.	Description	Date

Drawing Title:
CAMPUS PLAN

Architect's Seal	Designed By	Project No.
	Designer	5015014
	Drawn: Author	Scale: As indicated
	QA/QC Checker	Drawing No.
	Date: 06/28/2016	A1.0

KEYNOTES

NOTES



Key Plan

Consultant Seal

Agency Approval

FILE NO.

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

APPL. ----

ACS _____ FLS _____ SSS _____

DATE _____

Project Title

PALOMAR COLLEGE

BEHAVIORAL HEALTH

NB-2 REMODEL

1140 W. MISSION RD.

SAN MARCOS, CA 92069-1487

No.	Description	Date

Drawing Title

PROJECT SITE PLAN

Architect's Seal

Designer

Project No. 5015014

Scale: 1" = 20'-0"

Author

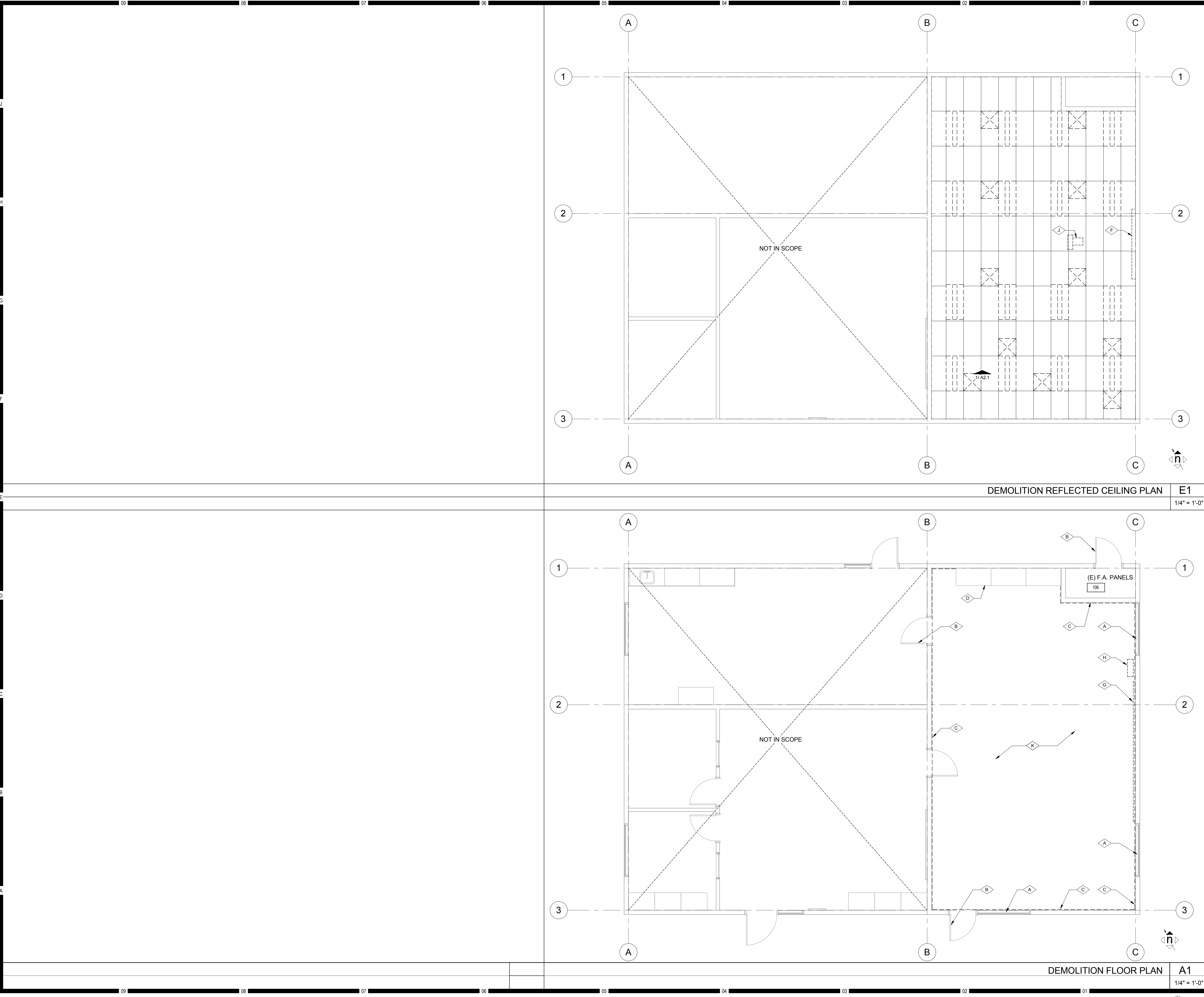
QA/QC

Checker

Drawing No. A1.1

Date: 06/28/2016

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KEYNOTES

- (E) WINDOW TO REMAIN. PROTECT IN PLACE
- (E) DOOR TO REMAIN. REMOVE (E) HARDWARE
- (E) FINISH & GYP. BD. TO BE REMOVED TO STUDS. PROTECT IN PLACE (E) WALL FRAMING
- (E) CASEWORK TO REMAIN. PROTECT IN PLACE
- SALVAGE (E) PROJECTOR SCREEN
- SALVAGE (E) MARKER BOARD
- SALVAGE (E) AV EQUIPMENT
- SALVAGE (E) PROJECTOR AND SPEAKER
- (E) FLOOR FINISH TO BE REMOVED. CLEAN & PREPARE SUB-FLOOR SURFACE TO RECEIVE (N) FINISH

DEMOLITION PLANS LEGEND

- (E) WALL TO REMAIN
- WALL TO BE DEMOLISHED
- DOOR TO BE DEMOLISHED
- MECHANICAL DIFFUSER TO BE DEMOLISHED
- LIGHT FIXTURE TO BE DEMOLISHED
- ACOUSTICAL CEILING TO BE DEMOLISHED

NOTES

- REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
- ALL DIMENSIONS ARE TO FACE OF STUD U.N.O.
- REMOVE (E) FLOORING IN AREAS AFFECTED BY NEW CONSTRUCTION.

Key Plan

Consultant Seal

Agency Approval FILE NO.
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DIV. OF THE STATE ARCHITECT
APPL. ----
ACS. FLS. SSS.
DATE

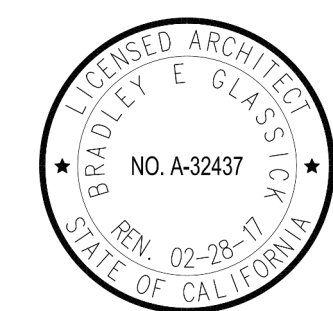
Project Title

PALOMAR COLLEGE
BEHAVIORAL HEALTH
NB-2 REMODEL
1140 W. MISSION RD.
SAN MARCOS, CA 92069-1487

No.	Description	Date

Drawing Title:
FIRST FLOOR - DEMO PLAN AND
REFLECTED CEILING PLAN

Architect's Seal



Designed Designer Project No. 5015014

Drawn: Author Scale: As indicated

QA/QC Checker Drawing No. A2.0

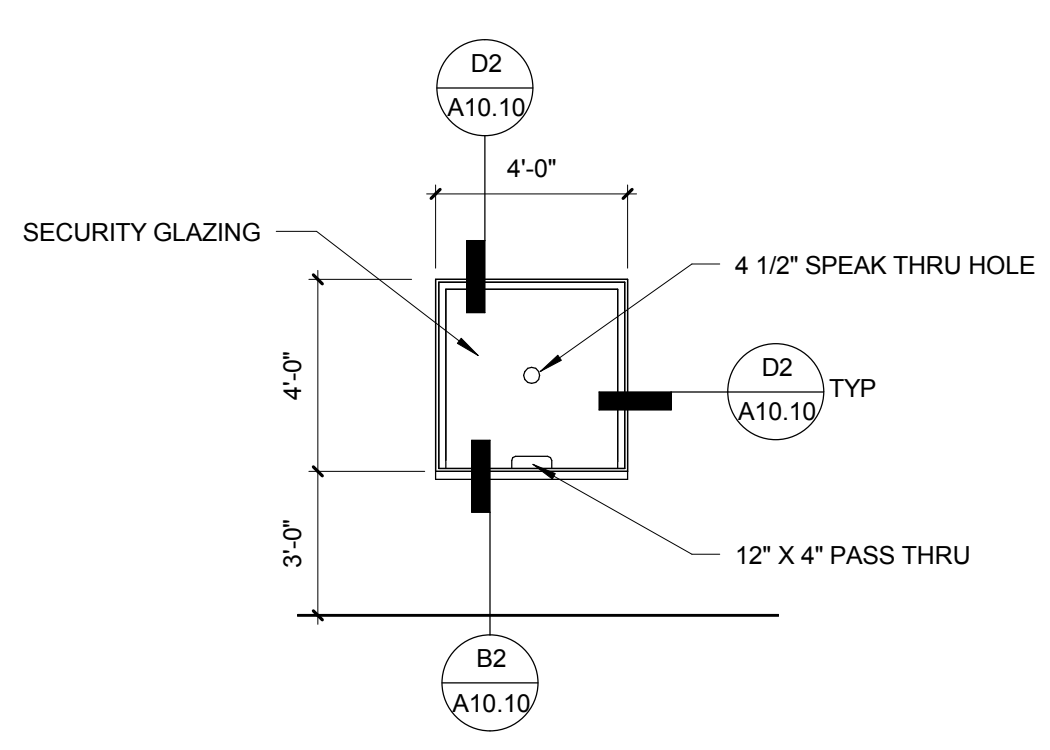
Date: 06/28/2016

ROOM FINISH SCHEDULE																			
NUMBER	NAME	FLOOR	BASE		WALLS												CEILING	REMARKS	
		MATERIAL	MATERIAL	COLOR	NORTH			EAST			SOUTH			WEST					
					MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR			
1ST FLOOR																			
105	IDF	VCT	RB	TBD	GB	PT	TBD	(E)	PT	TBD	(E)	PT	TBD	GB	PT	TBD	ACT		
106	(E) F.A. PANELS	(E)	(E)	-	(E)	(E)	-	(E)	(E)	-	(E)	(E)	-	(E)	(E)	-	(E)		
107	WAITING	CT	RB	TBD	GB	PT	TBD	GB	PT	TBD	GB	PT	TBD	GB	PT	TBD	ACT	ACCENT PT (1) SIDE	
108	RECEPTION	CT	RB	TBD	GB	PT	TBD	GB	PT	TBD	GB	PT	TBD	GB	PT	TBD	ACT	ACCENT PT (1) SIDE	
109	OFFICE 1	CT	RB	TBD	GB	PT	TBD	GB	PT	TBD	GB	PT	TBD	GB	PT	TBD	ACT	ACCENT PT (1) SIDE	
110	OFFICE 2	CT	RB	TBD	GB	PT	TBD	GB	PT	TBD	GB	PT	TBD	GB	PT	TBD	ACT	ACCENT PT (1) SIDE	
111	OFFICE 3	CT	RB	TBD	GB	PT	TBD	GB	PT	TBD	GB	PT	TBD	GB	PT	TBD	ACT	ACCENT PT (1) SIDE	
112	MEETING ROOM	CT	RB	TBD	GB	PT	TBD	GB	PT	TBD	GB	PT	TBD	GB	PT	TBD	ACT	ACCENT PT (1) SIDE	

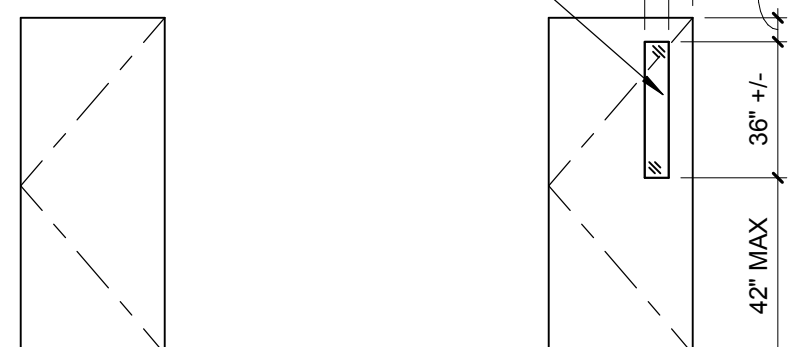
ROOM FINISH SCHEDULE

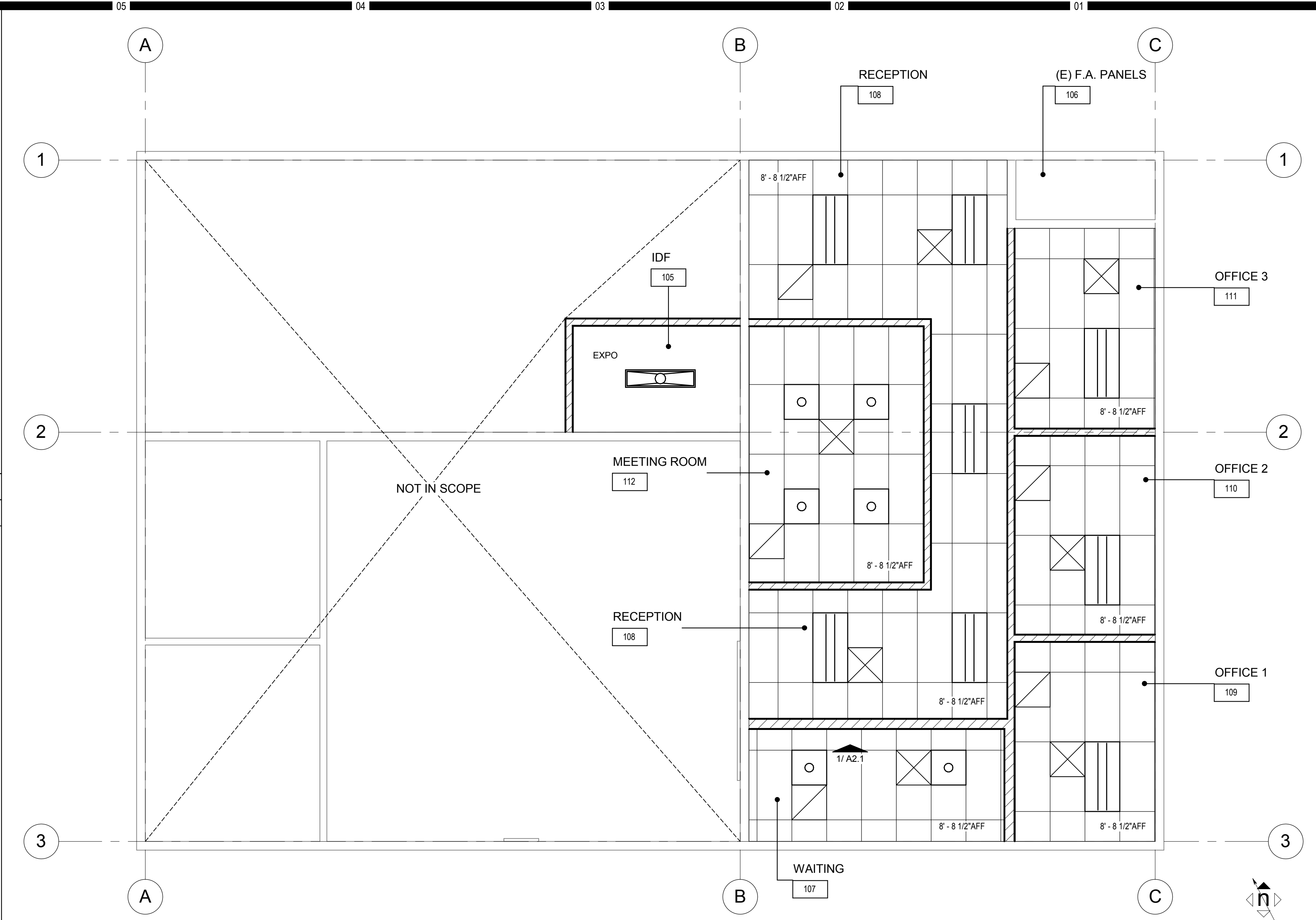
DOOR SCHEDULE														
DOOR NUMBER	DOOR SIZE			FIRE RATING	Door			FRAME		HARDWARE GROUP	PANIC	DETAILS (SHEET A10.10 U.N.O.)		Comments
	WIDTH		HEIGHT		MATERIAL	PANEL TYPE	UNDERCUT	MATERIAL	FRAME TYPE			HEAD/JAMB	THRESH	
	PANEL 1	PANEL 2												
105		3'-0"	7'-0"	NR	WD	01 : S	0'-0"	HM	A : S	04	No	B4	B6	HARDWARE ONLY
106		3'-0"	7'-0"	NR	(E)	01 : S	0'-0"	(E)	A : S	04	No	-	-	
107A		3'-0"	7'-0"	NR	WD	01 : S	0'-0"	HM	A : S	01	No	-	-	
107B		3'-0"	7'-0"	NR	WD	03 : S	0'-0"	(E)	A : S	02	No	-	-	HARDWARE ONLY
108		3'-0"	7'-0"	NR	(E)	01 : S	0'-0"	(E)	A : S	04	No	-	-	
109		3'-0"	7'-0"	NR	WD	03 : S	0'-0"	HM	A : S	03	No	B4	B6	
110		3'-0"	7'-0"	NR	WD	03 : S	0'-0"	HM	A : S	03	No	B4	B6	
111		3'-0"	7'-0"	NR	WD	03 : S	0'-0"	HM	A : S	03	No	B4	B6	
112A		3'-0"	7'-0"	NR	WD	03 : S	0'-0"	HM	A : S	03	No	B4	B6	

DOOR SCHEDULE	E6
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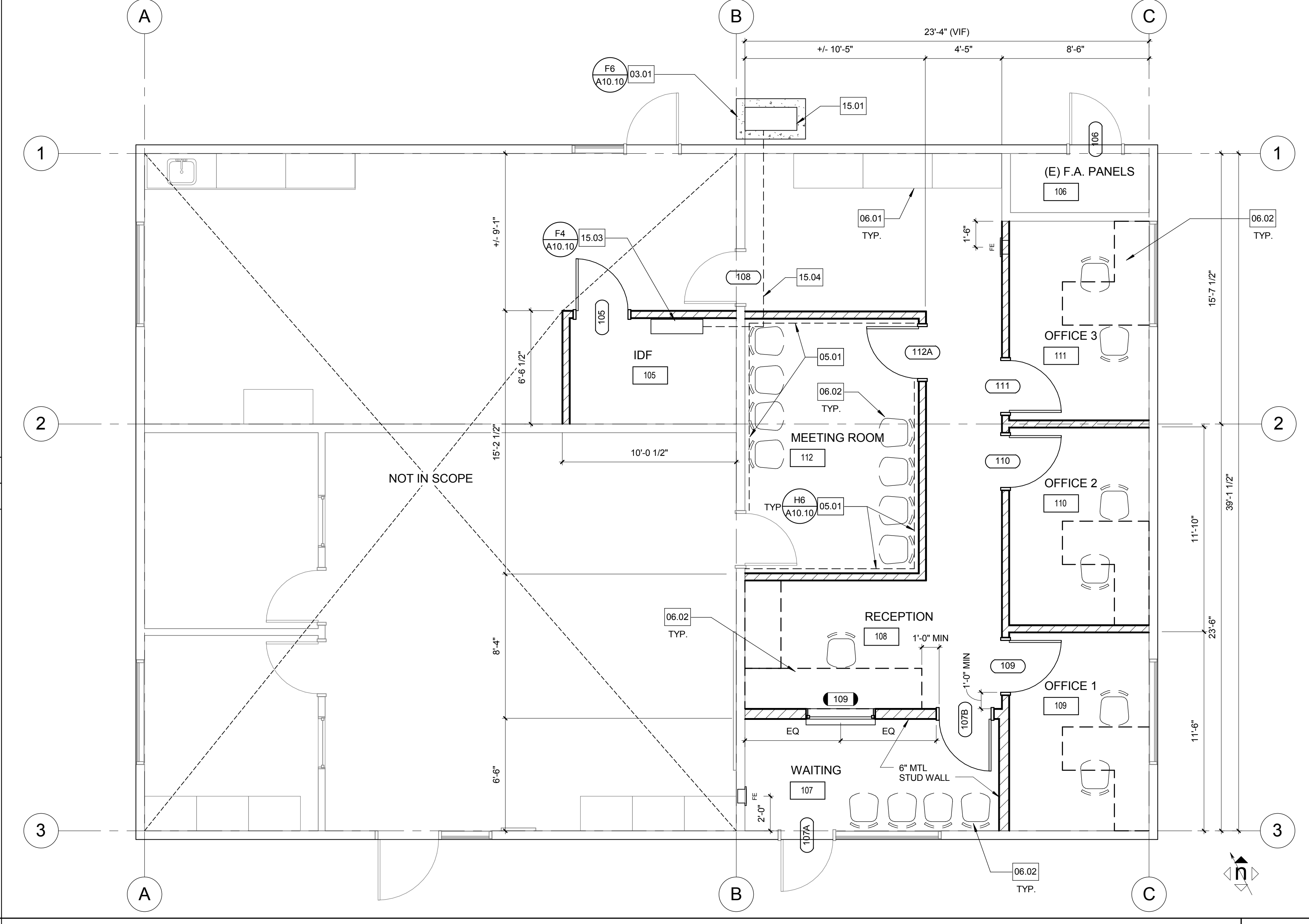
WINDOW SCHEDULE		C6
		
		

WINDOW SCHEDULE	C6
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DOOR PANELS AND FRAMES		A6
		



REMODEL REFLECTED CEILING PLAN	E1
	1/4" = 1'-0"



REMODEL FLOOR PLAN	A1
	1/4" = 1'-0"

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KEYNOTES

NO.	Note - Detail
03.01	CONCRETE PAD
05.01	METAL STUD BACKING FOR FUTURE MARKERBOARD
06.01	(E) CASEWORK, PROTECT IN PLACE
06.02	FURNITURE, BY OWNER
15.01	CONDENSING UNIT (COAIRE CIC-09M1Z)
15.03	FAN COIL UNIT (COAIRE CIC-09M1Z)
15.04	INSULATED REFRIGERANT PIPING ABOVE CEILING. PROVIDE PIPE SLEEVES THRU WALL PENETRATIONS

FLOOR PLAN LEGEND

- (E) WALL TO REMAIN, PROVIDE NEW 5/8" GYP BD & FINISH WHERE EXISTING IS REMOVED PER DEMO PLAN
- 4" METAL STUDS (U.N.O. ON PLAN) @ 16" O.C. W/ 5/8" GYP BD ON EACH SIDE AND INFILLED WITH ACOUSTIC BATT INSULATION. REFER TO SHEET A10.13 FOR TYPICAL STUD WALL FRAMING DETAILS.
- FE FIRE EXTINGUISHER CABINET

CEILING PLAN LEGEND

- (N) 2X4 T-BAR CEILING
- EXPO EXPOSED TO STRUCTURE ABOVE
- (N) LIGHT FIXTURE - REFER TO E1.1
- (N) MECHANICAL REGISTERS - REFER TO M2.1

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE
CT	CARPET TILE
GB	GYPSUM BOARD
HM	HOLLOW METAL
NR	NOT RATED
PT	PANT
RB	RUBBER BASE
RT	RESILIENT TILE
STL	PREFINISHED STEEL FRAME
VCT	VINYL COMPOSITION TILE
WD	WOOD

NOTES

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Project Title: PALOMAR COMMUNITY COLLEGE
BEHAVIORAL HEALTH
NB-2 REMODEL
1140 W. MISSION RD.
SAN MARCOS, CA 92069-1487

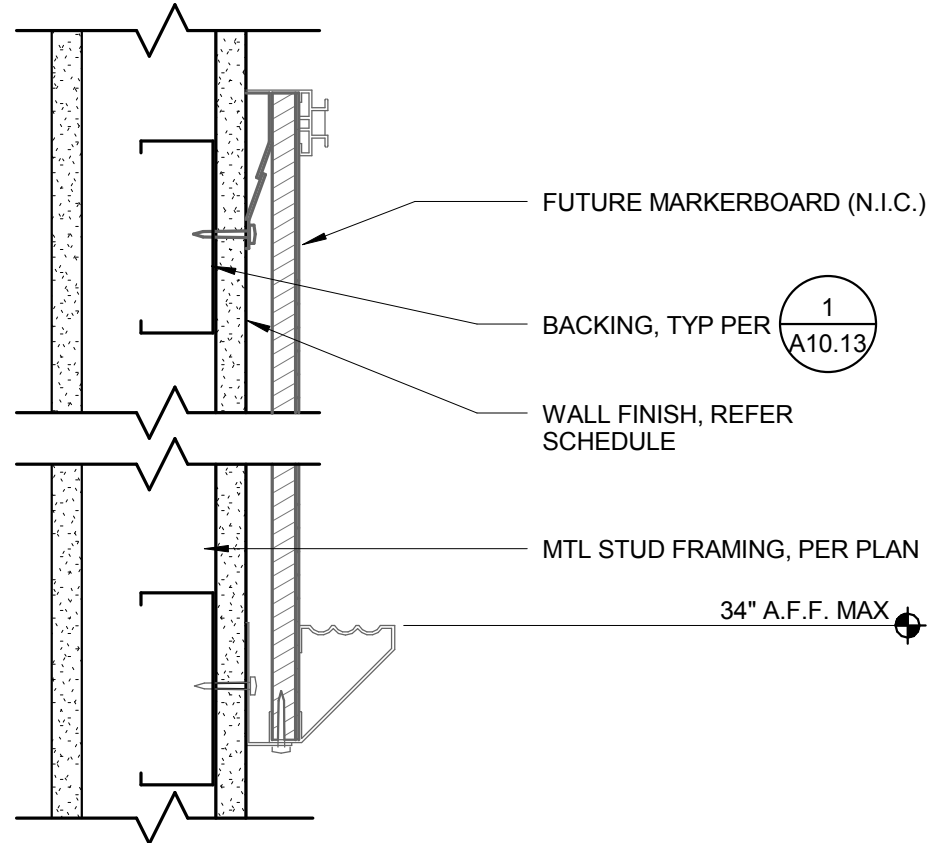
No.	Description	Date

Drawing Title: FIRST FLOOR - REMODEL PLAN & REFLECTED CEILING PLAN

Architect's Seal	Designed: BG	Project No. 5015014
	Drawn: VH	Scale: As indicated
	QA/QC: NC	Drawing No. A2.1
	Date: 06/28/2016	

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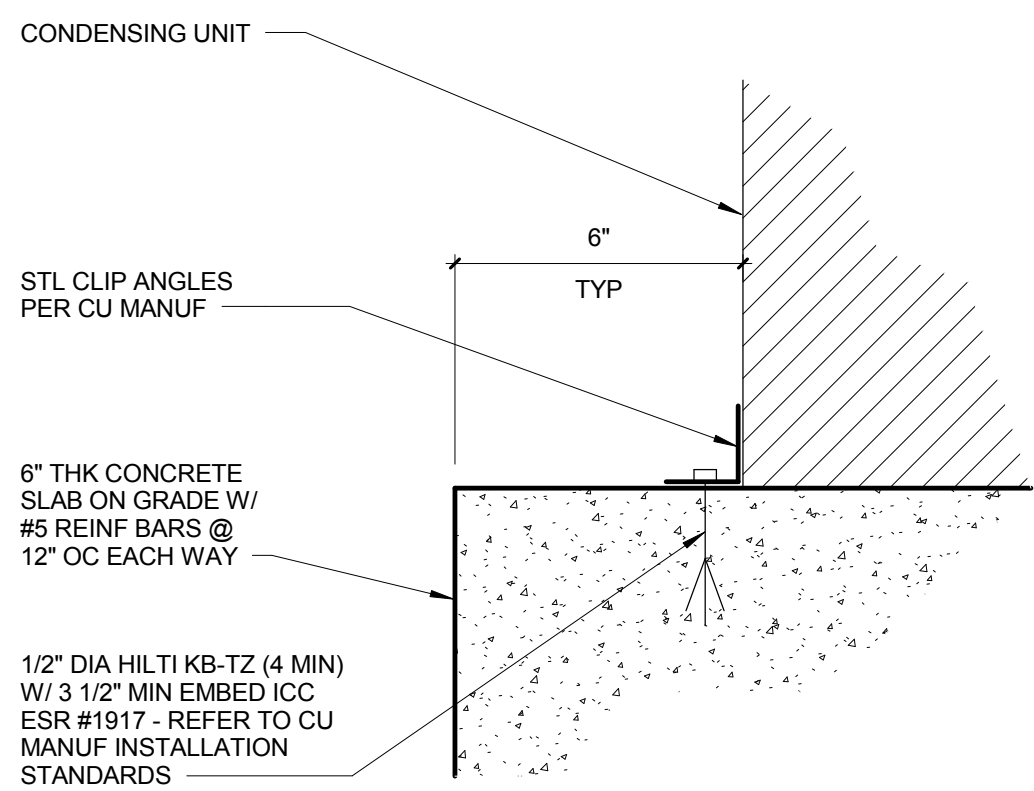
(SM)



MARKERBOARD/TACKBOARD AT METAL STUD

H6

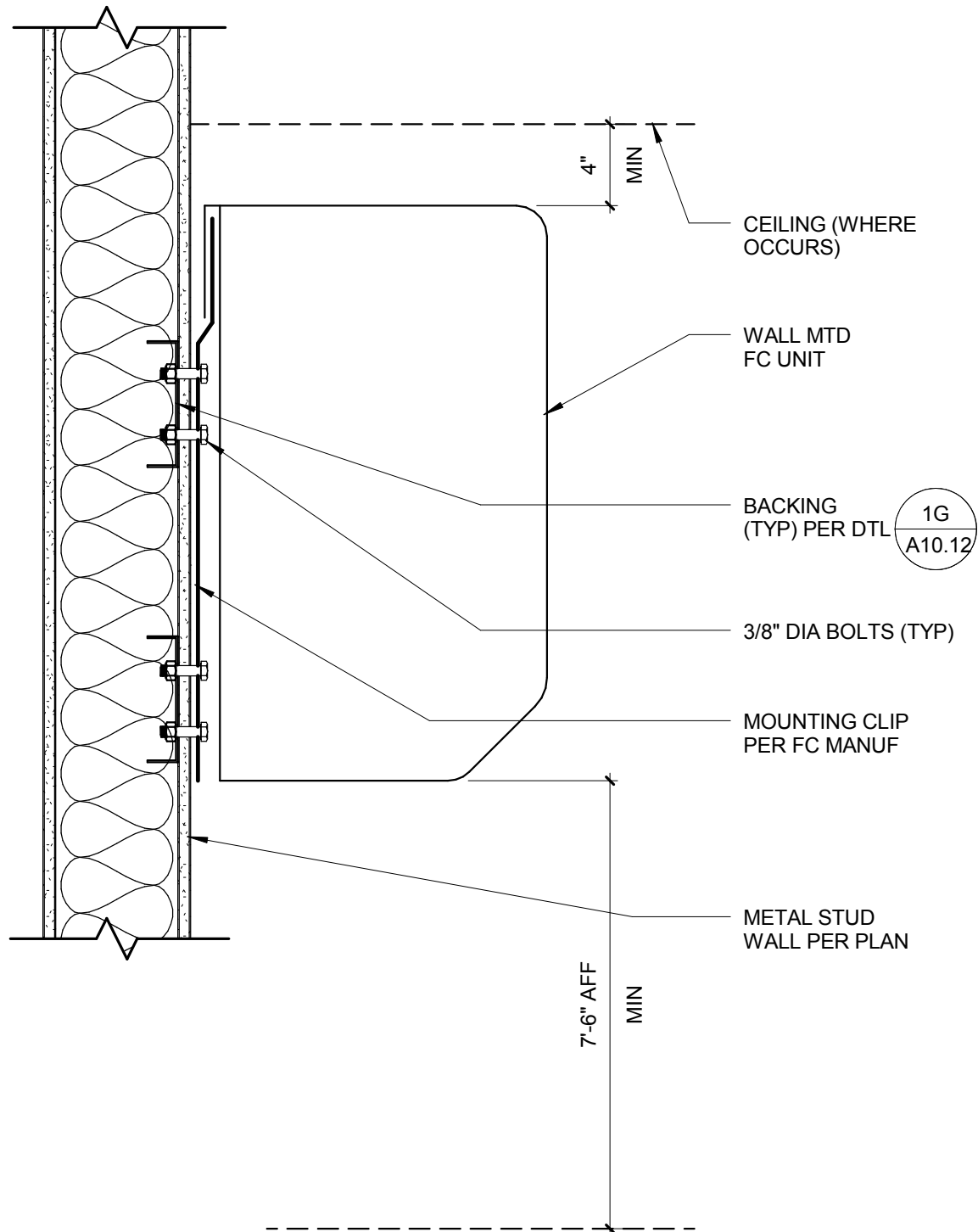
3" = 1'-0"



CONCRETE PAD

F6

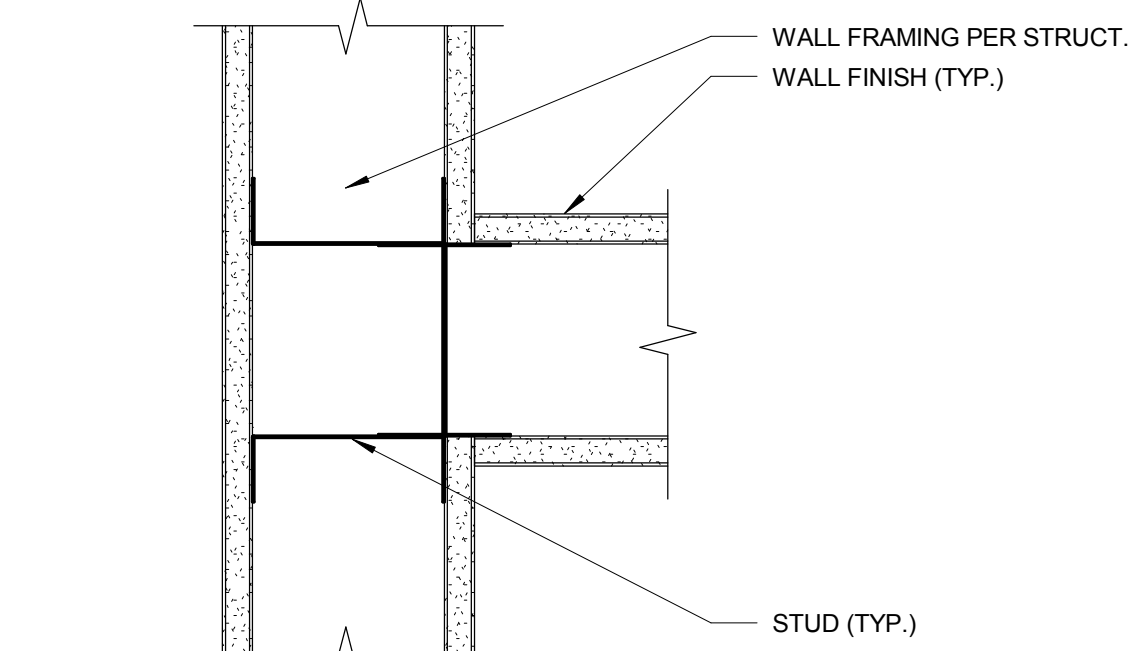
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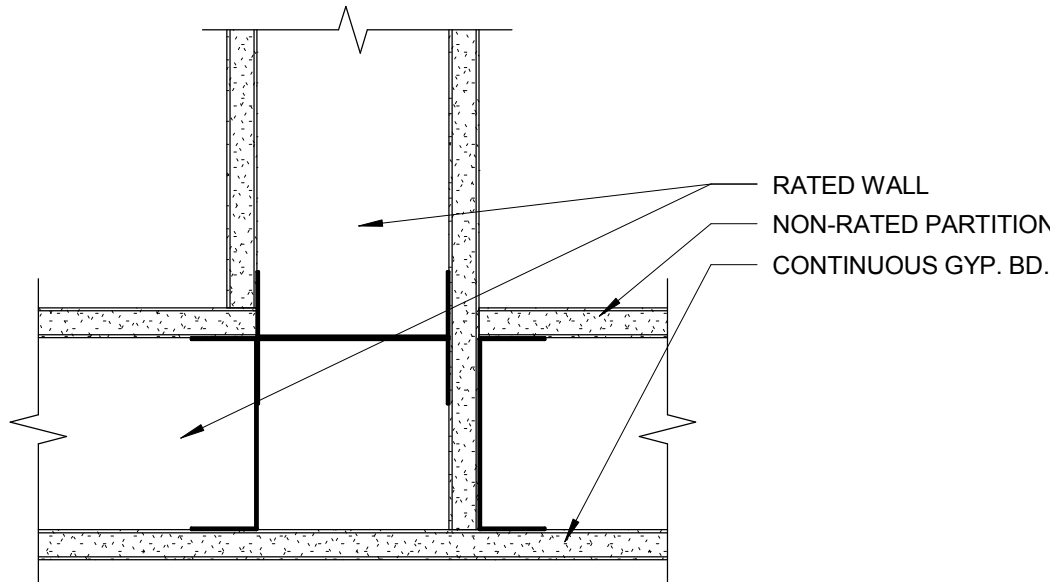
WALL MOUNTED FAN COIL UNIT

F4

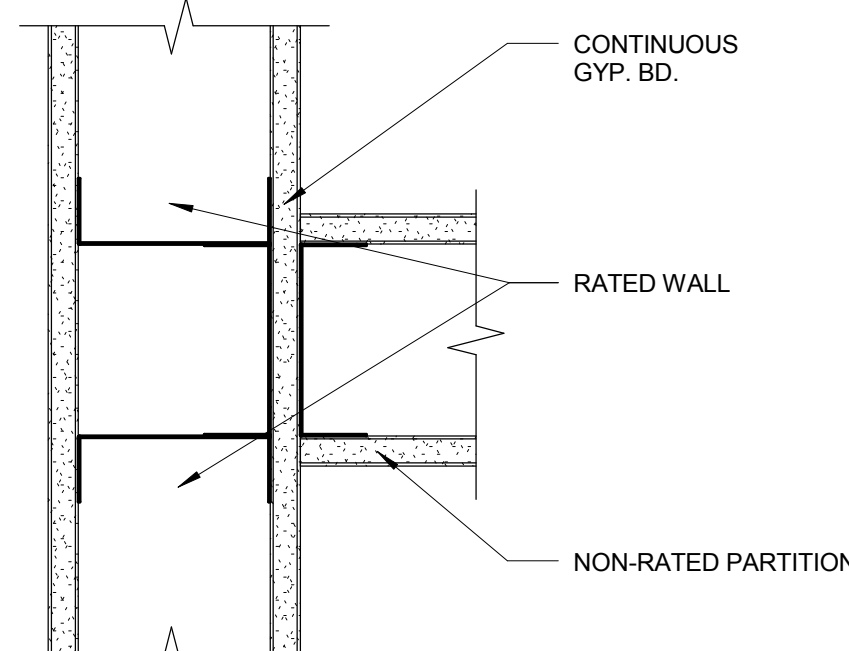
1 1/2" = 1'-0"



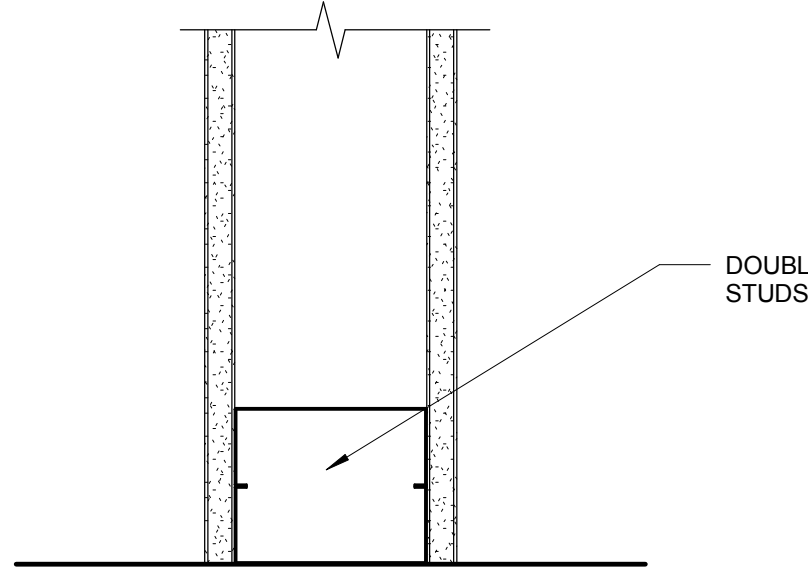
T-INTERSECTION - PLAN
(@ NON-RATED CONDITION)



L-INTERSECTION - PLAN
(@ RATED CONDITION)



T-INTERSECTION - PLAN
(@ RATED CONDITION)

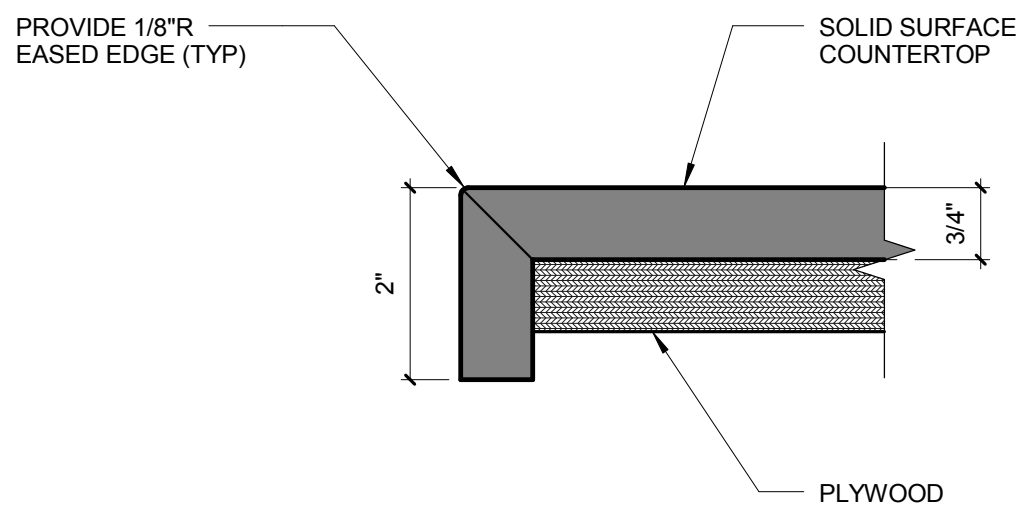


END - PLAN

TYPICAL STUD WALL CONDITIONS

F1

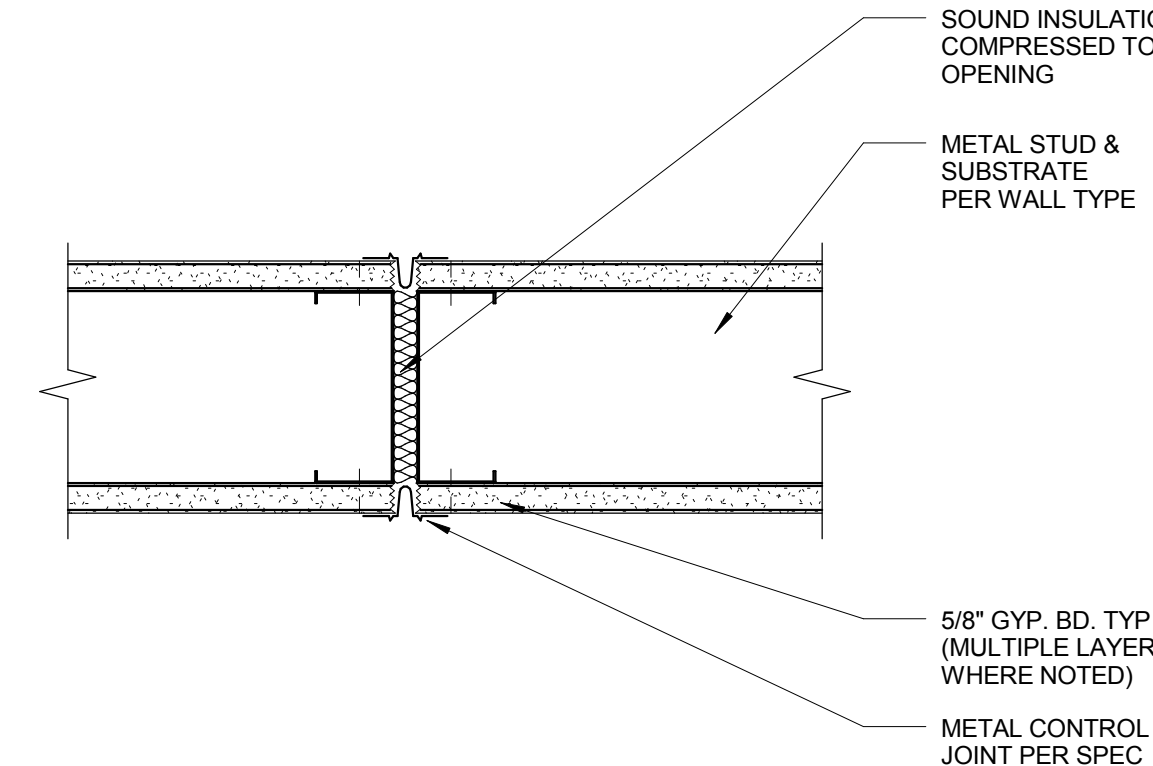
3" = 1'-0"



POLYMER COUNTERTOP EDGE DETAIL

D6

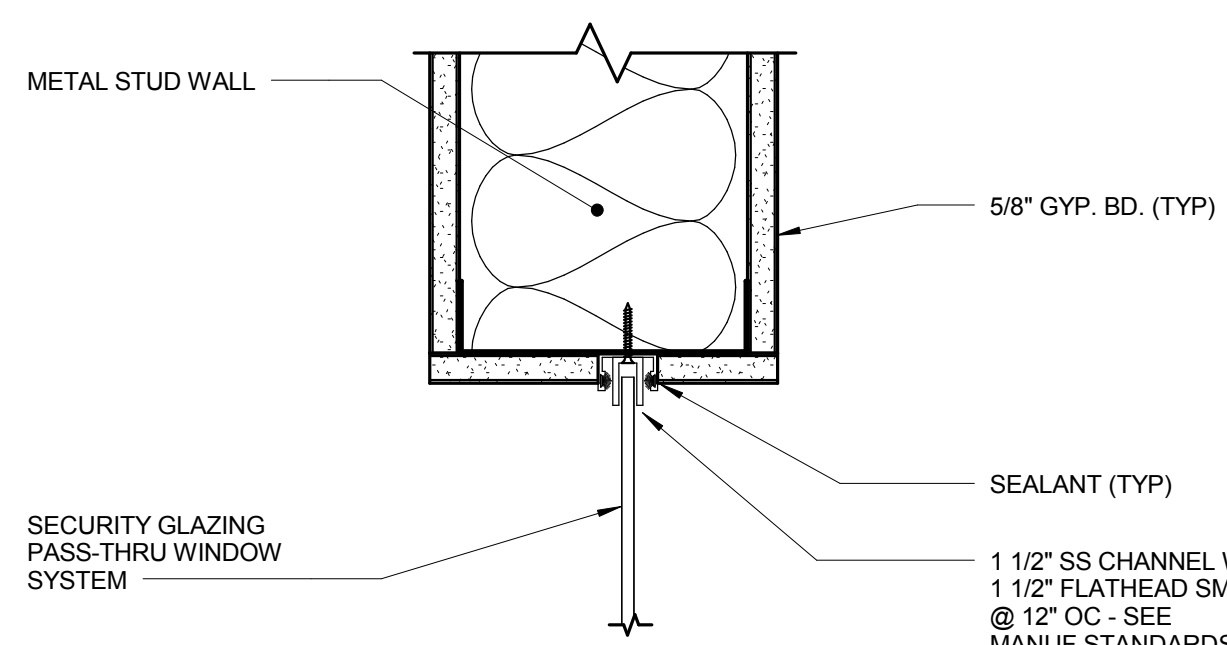
6" = 1'-0"



TYP GYP BD CONTROL JOINT

D4

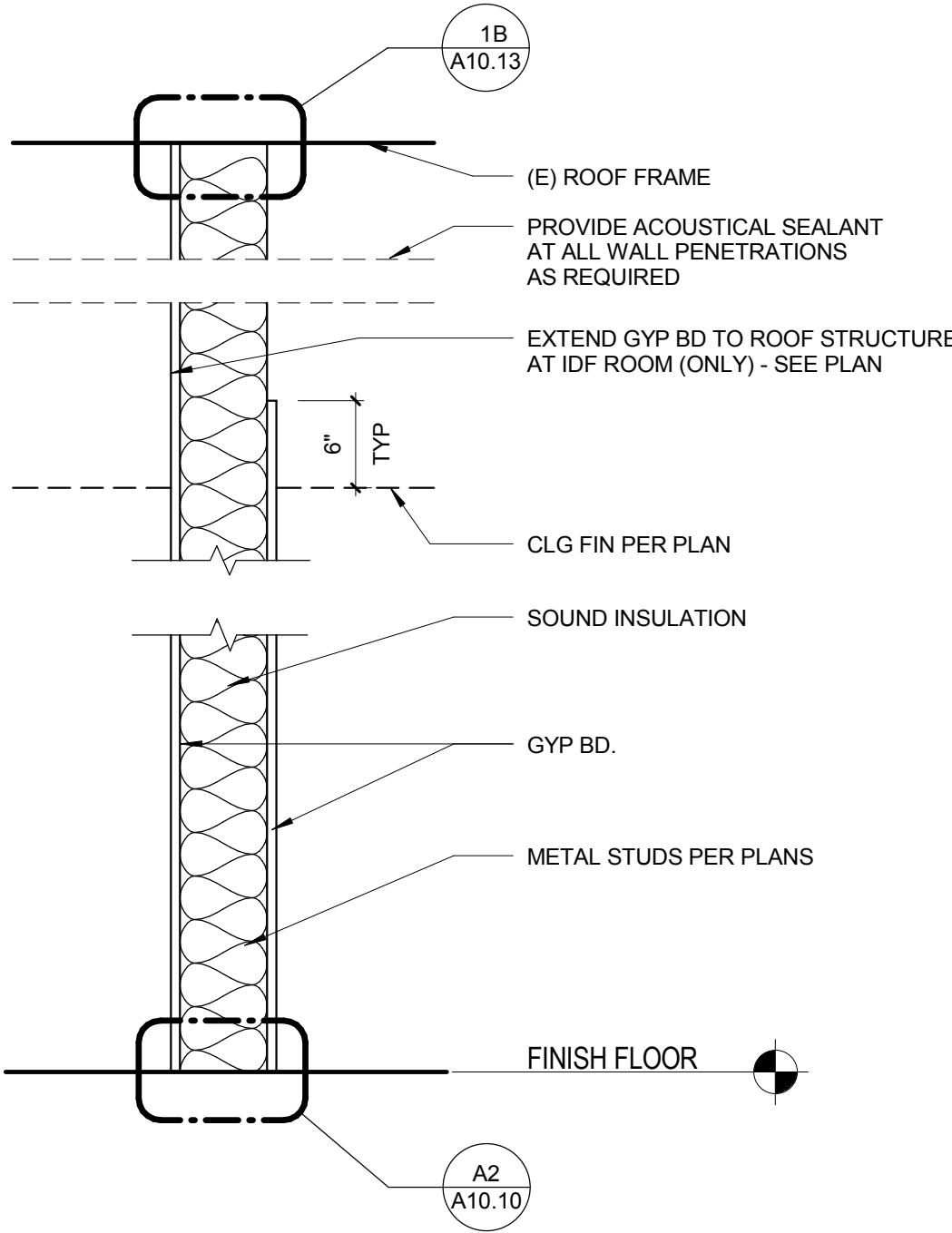
3" = 1'-0"



INT. PASS THRU - HEAD/JAMB DETAIL

D2

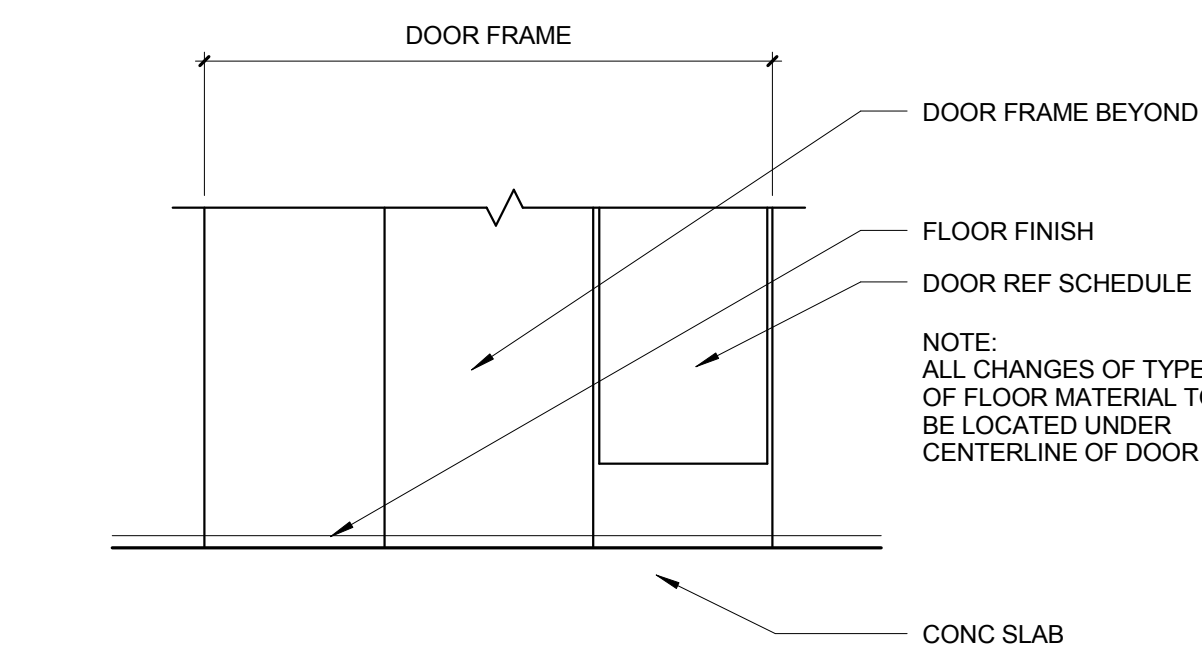
3" = 1'-0"



TYPICAL INTERIOR WALL SECTION

B1

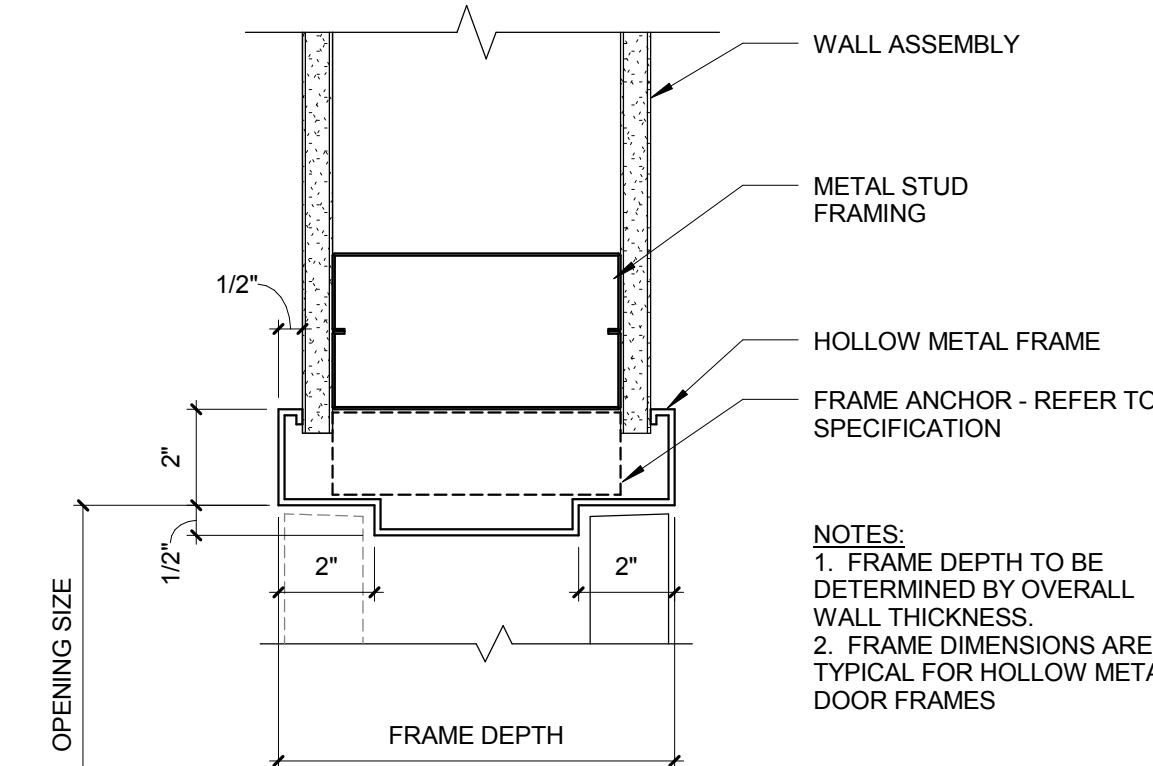
1" = 1'-0"



INTERIOR DOOR SILL

B6

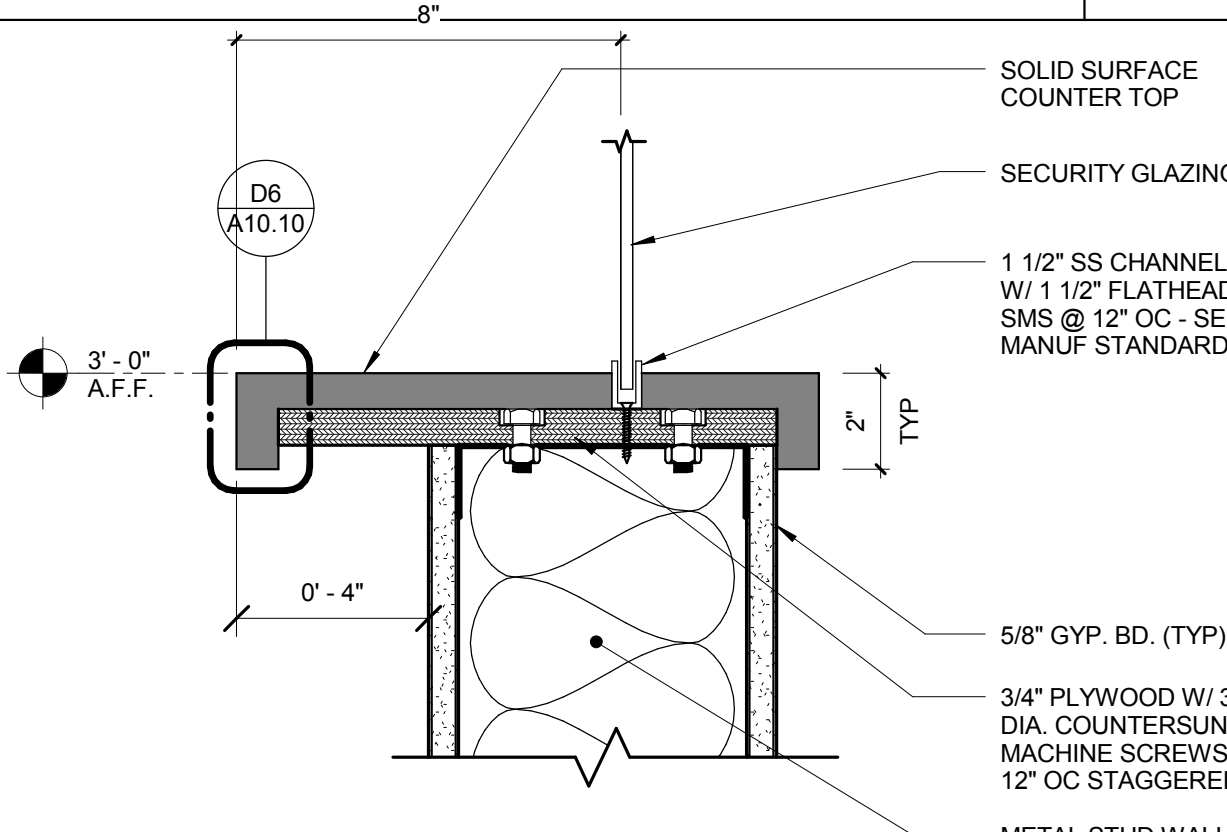
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INTERIOR HM DOOR JAMB/HEAD

B4

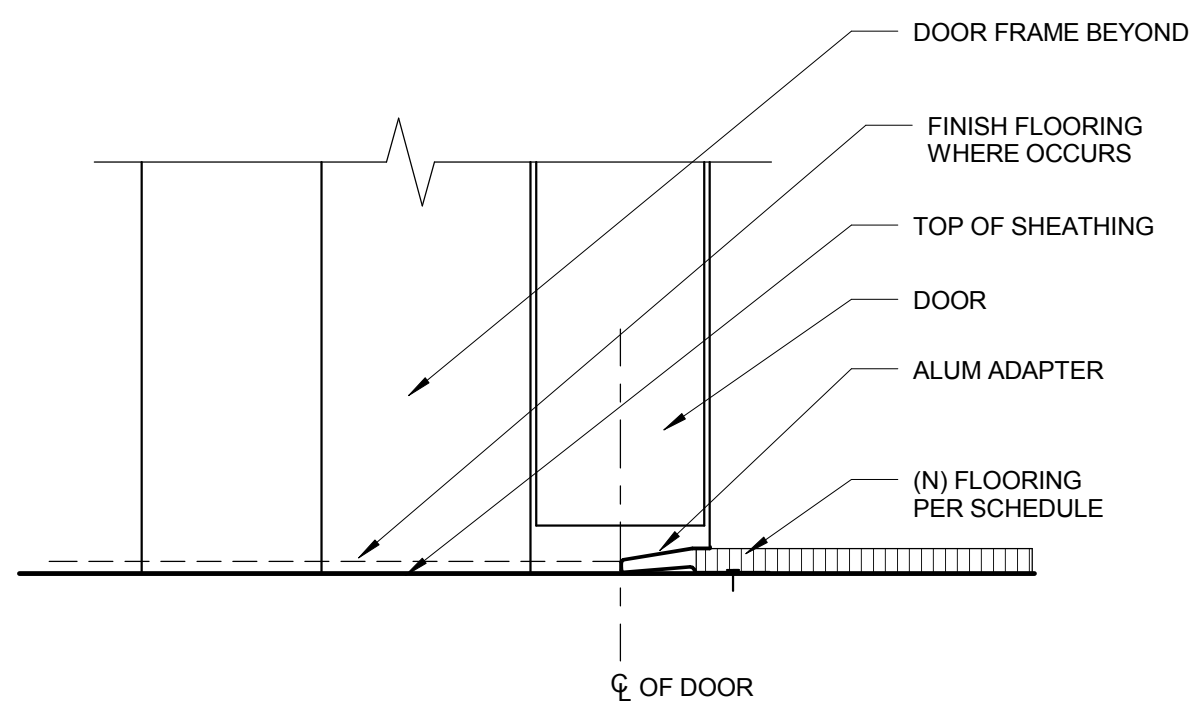
3" = 1'-0"



INT. PASS THRU - SILL @ COUNTER

B2

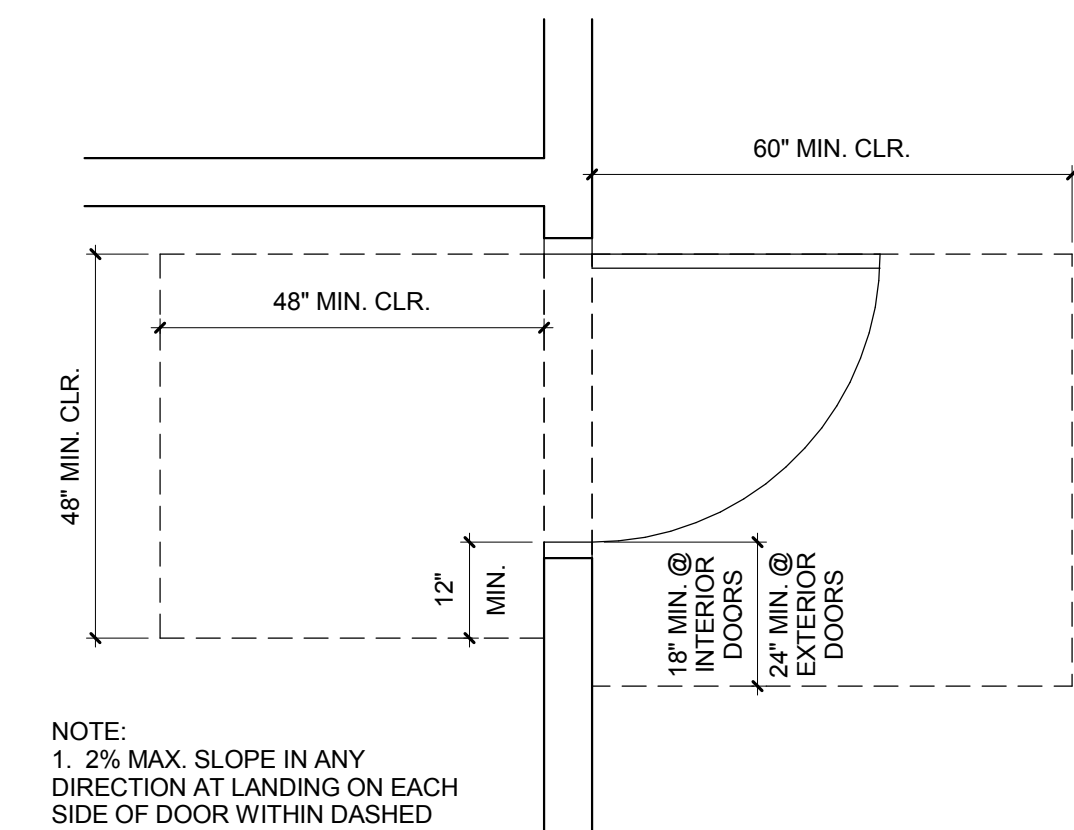
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THRESHOLD AT (N) FLOORING

A6

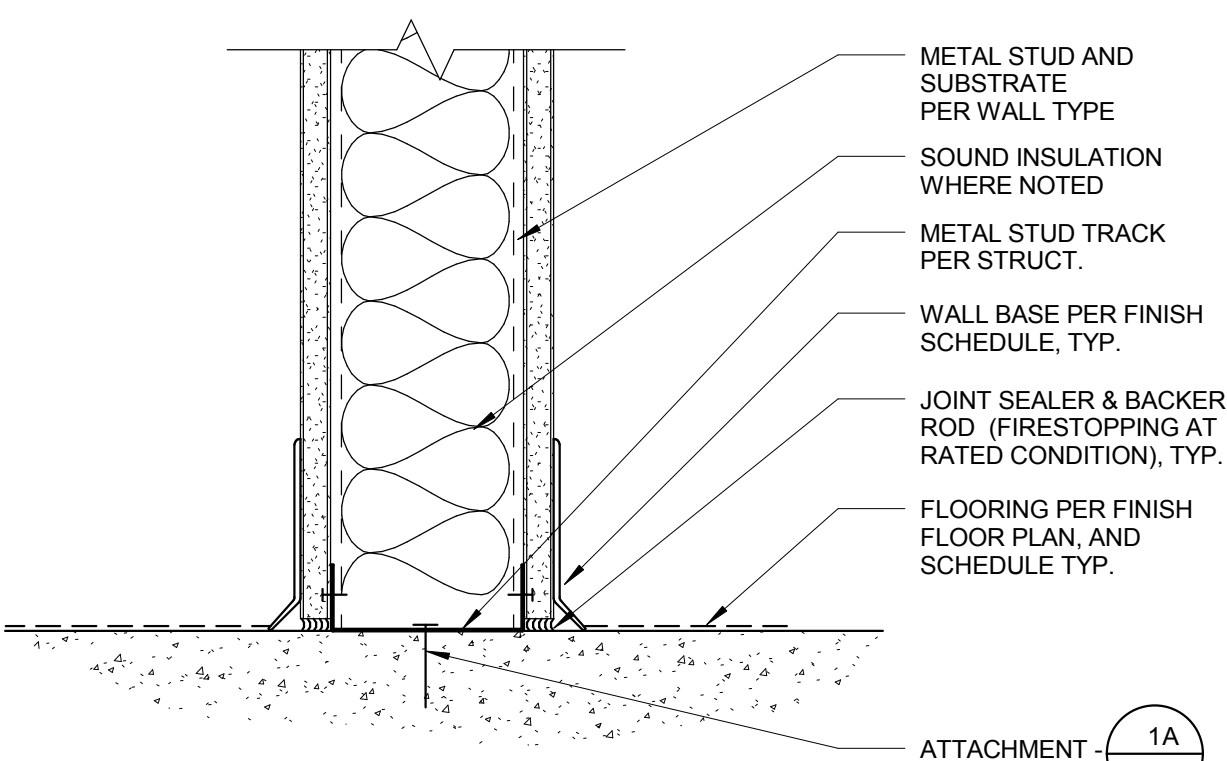
6" = 1'-0"



DOOR LANDING AND CLEARANCE

A4

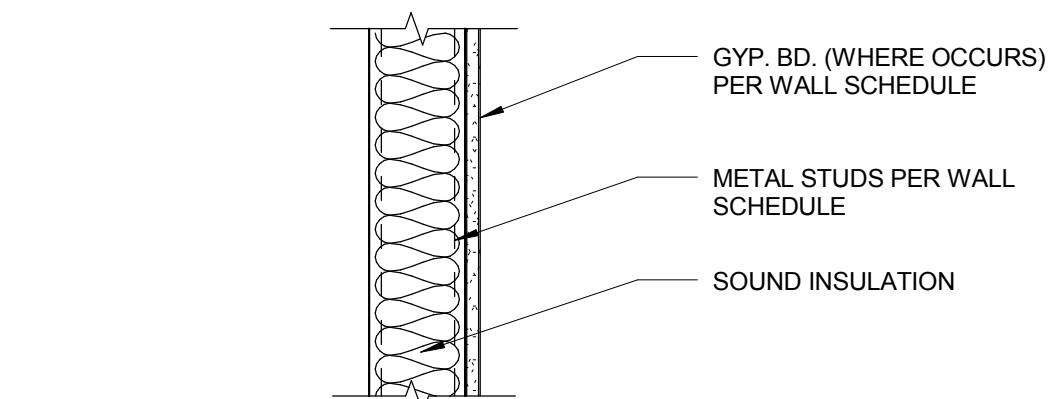
1/2" = 1'-0"



TYP INTERIOR WALL BASE

A2

3" = 1'-0"



INTERIOR WALL - GYP BD

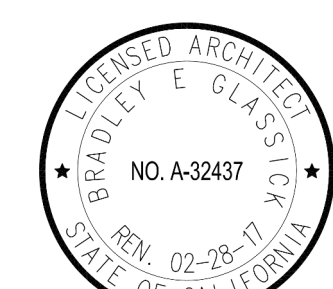
A1

1 1/2" = 1'-0"

TAG	STC	UL # / GA FILE #	FIRE	ATTACHMENT
4G1				
4G2				

DETAILS

Architect's Seal



Designer

Author

Checker

Date: 06/28/2016

Project No.

Scale:

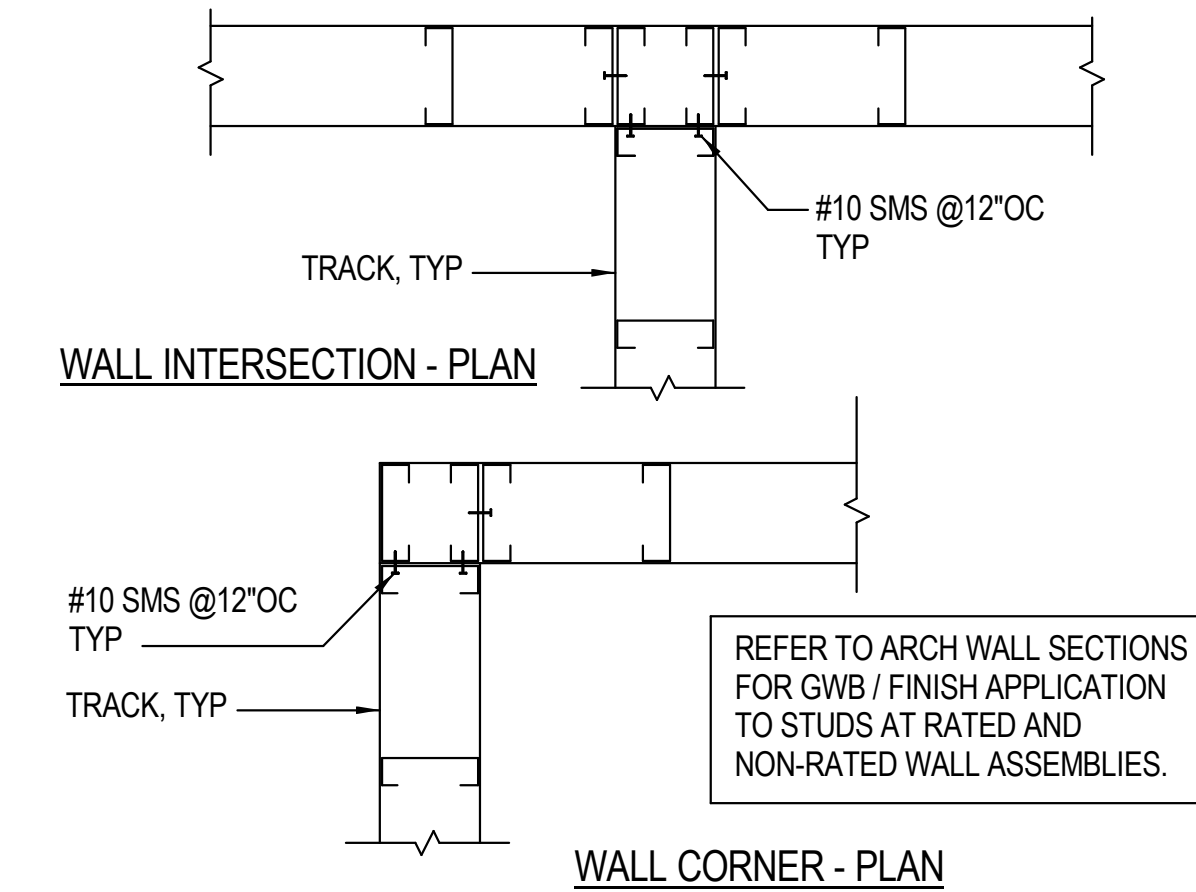
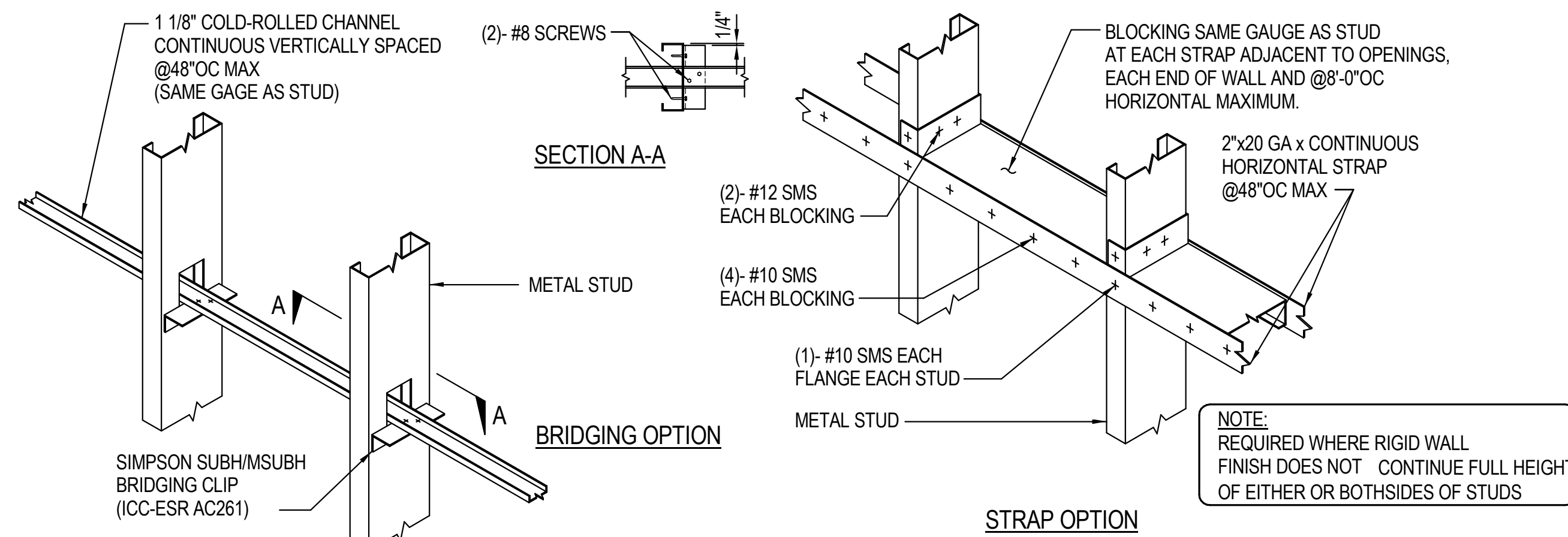
Drawing No.

5015014

As indicated

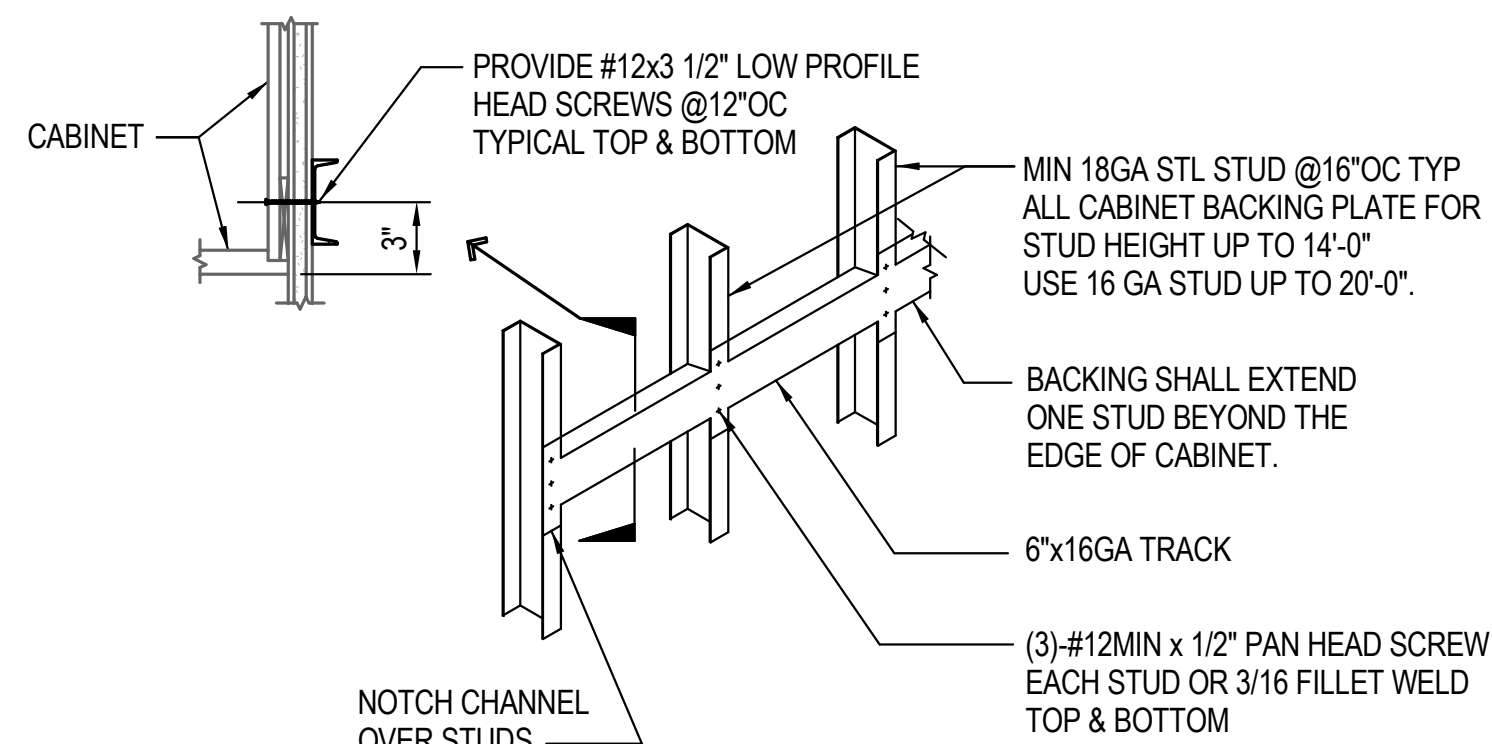
A10.10

PLEASE RECYCLE

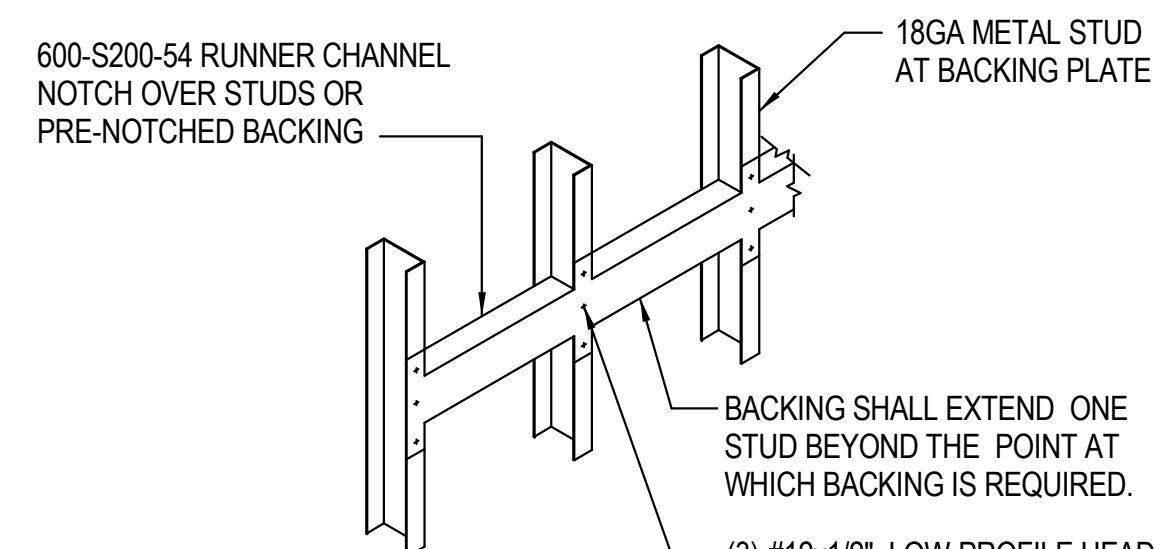


TYPICAL LATERAL BRIDGING AT METAL STUDS

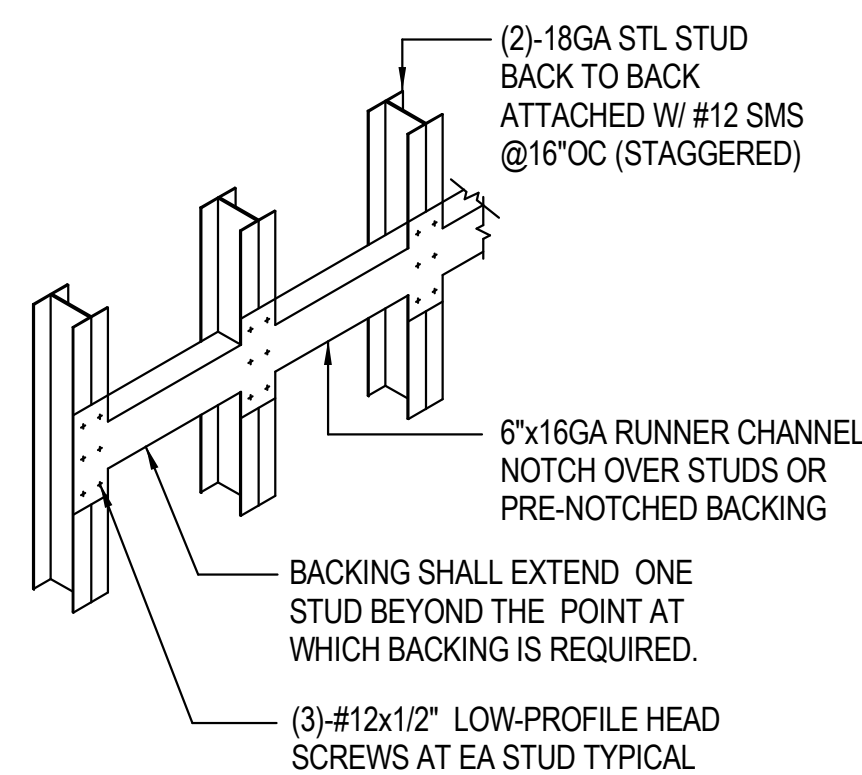
TYPICAL METAL STUD WALL AT INTERSECTION DETAIL



BACKING AT CABINET

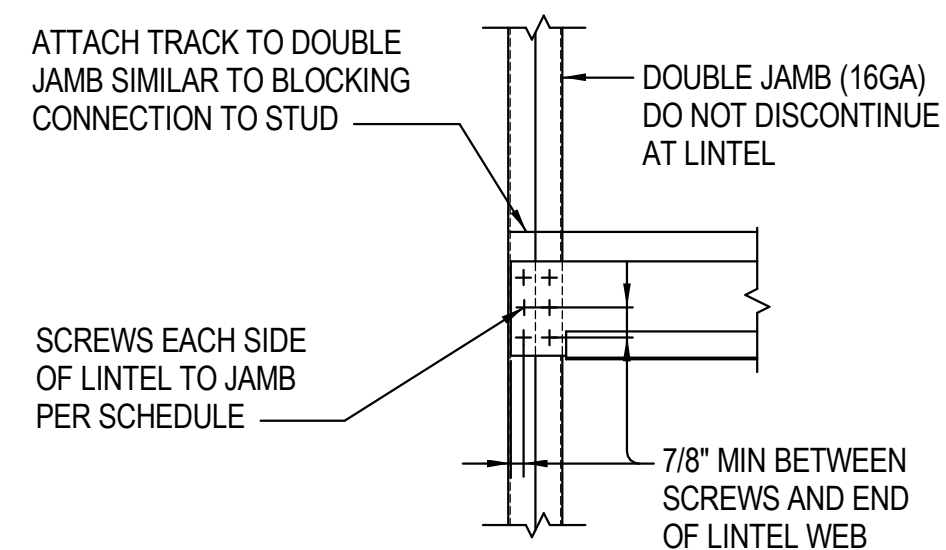


EQUIPMENT WEIGHT UNDER 100 LBS (AND FIXTURES)

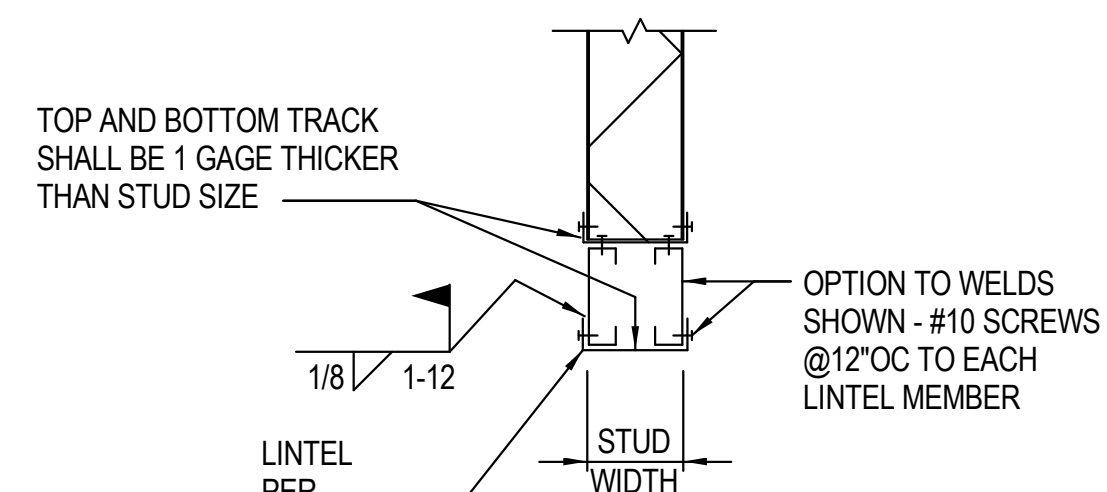


EQUIP WEIGHT BETWEEN 100-200 LBS (AND FIXTURES)

BACKING FOR WALL SUPPORTED ITEMS



CONNECTION TO JAMB



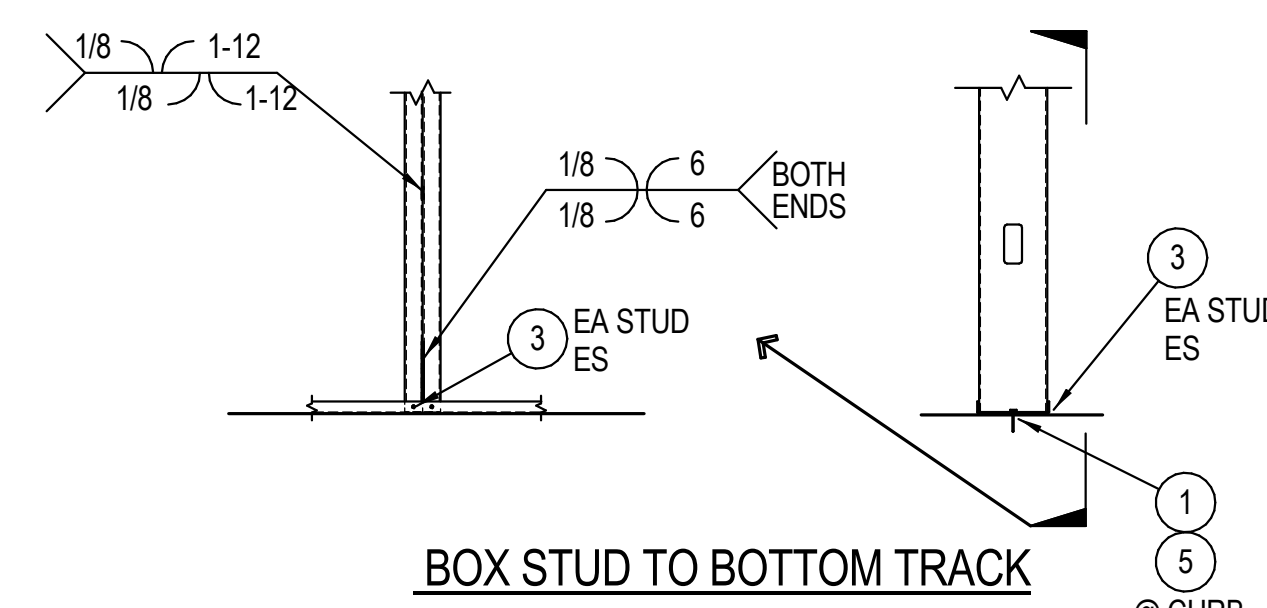
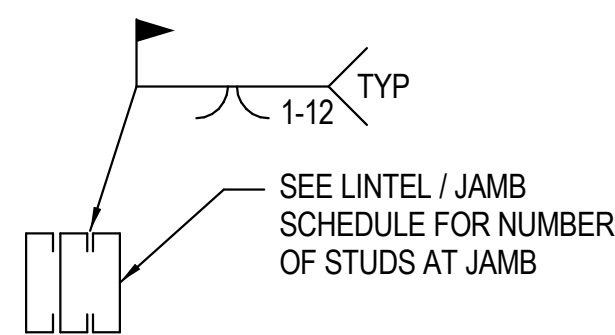
LINTEL SECTION

JAMB SECTION

JAMB / LINTEL DETAILS AND SCHEDULE

LINTEL / JAMB SCHEDULE			
MAX LENGTH	LINTEL BEAM SIZE	# OF STUDS AT JAMB	#10 SCREWS EACH SIDE OF BEAM TO JAMB
4'-0"	(2) 400 S162-33	1	2 SCREWS (4 TOTAL)
6'-0"	(2) 400 S162-33	2	2 SCREWS (4 TOTAL)
8'-0"	(2) 600 S162-33	2	3 SCREWS (6 TOTAL)
10'-0"	(2) 600 S162-33	2	3 SCREWS (6 TOTAL)
12'-0"	(2) 800 S162-33	3	4 SCREWS (8 TOTAL)
14'-0"	(2) 800 S162-33	3	4 SCREWS (8 TOTAL)
16'-0"	(2) 1000 S162-33	3	5 SCREWS (10 TOTAL)
18'-2"	(2) 1000 S162-54	3	5 SCREWS (10 TOTAL)

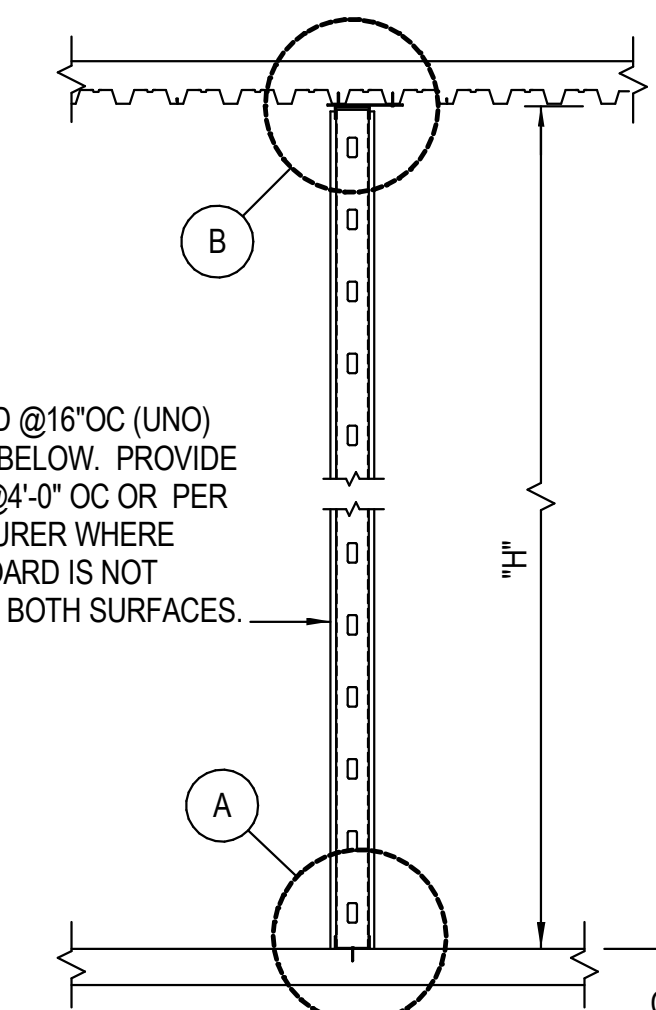
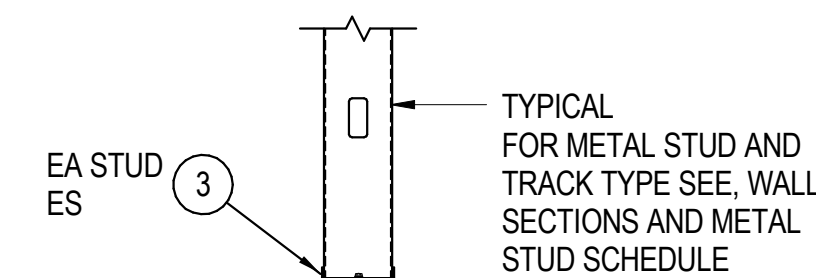
* 13'-0" MAX HEADER WIDTH FOR 4" STUDS



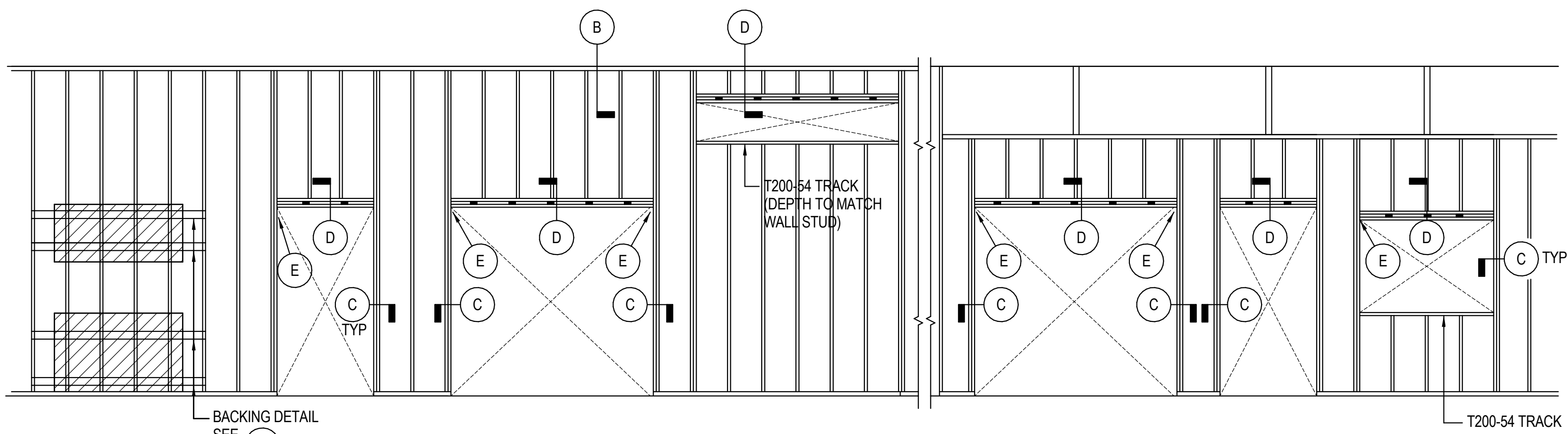
BOX STUD TO BOTTOM TRACK

- NOTES:
1. FOR STEEL STUD AND TRACK TYPE, SEE PLANS, SECTIONS AND METAL STUD SIZE SCHEDULE.
 2. FOR METAL STUD FASTENERS, SEE METAL STUD FASTENER SCHEDULE.

STUD TO SLAB DETAIL



TYPICAL METAL STUD WALL SECTION



TYPICAL METAL STUD WALL ELEVATION

METAL STUD FASTENER SCHEDULE	
MARK	FASTENERS SIZE AND SPACING
1	HILTI X-U POWER DRIVEN FASTENER @ 24\"/>
2	HILTI X-U POWER DRIVEN FASTENER W/ 1 1/4\"/>
3	#10 SHEET METAL SCREW
4	#12 SHEET METAL SCREW
5	1/2\"/>

MAXIMUM ALLOWABLE HEIGHT ("H") SCHEDULE			
METAL STUD (S-STUD) SIZE (MIN 1 5/8\"/>			
GAUGE	4"	6"	8"
16	18'-0"	—	—
18	17'-0"	—	—
20	13'-0"	21'-0"	26'-0"

TYPICAL NON-BEARING METAL STUD WALL CONSTRUCTION DETAILS

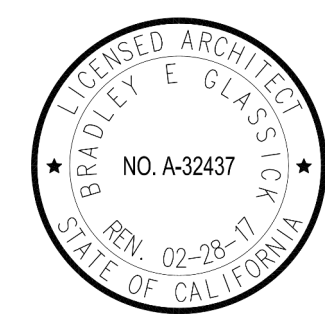
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	APPL. _____	
	ACS _____ FLS _____ SSS _____	
	DATE _____	

Project Title	PALOMAR COMMUNITY COLLEGE BEHAVIORAL HEALTH NB-2 REMODEL 1140 W. MISSION RD. SAN MARCOS, CA 92069-1487
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No.	Description	Date

DETAILS - TYPICAL METAL STUD

Architect's Seal	Designed: LR	Project No. 5015014
	Drawn: JPR	Scale: 1" = 1'-0"
	QA/QC: LR	Drawing No. A10.13
	Date: 06/28/2016	



GENERAL NOTES:

- 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.
- 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.
- 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.
- PROVIDE ACCESS AND CLEARANCE FOR MAINTENANCE FOR MECHANICAL EQUIPMENT AND COMPONENTS AS RECOMMENDED BY EQUIPMENT MANUFACTURER AND APPLICABLE CODES.
- HANDLE, STORE AND INSTALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
- INSTALL VALVES WITH UNIONS OR FLANGES AT EACH PIECE OF EQUIPMENT ARRANGED TO ALLOW SERVICE MAINTENANCE, AND EQUIPMENT REMOVAL WITHOUT SYSTEM SHUT-DOWN.
- BRACE AND SUPPORT PIPES, CONDUIT, AND DUCTWORK IN ACCORDANCE WITH SMACNA GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL AND PLUMBING PIPING SYSTEM.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS, REGISTERS, GRILLES, AND ACCESS PANELS.
- ALL DUCT DIMENSIONS, AS SHOWN ON MECHANICAL DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
- 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.
- INSULATE PIPING AND DUCTWORK IN ACCORDANCE WITH THE GOVERNING CODES.
- START-UP THE MECHANICAL SYSTEMS TO ASSURE A COMPLETE AND OPERATIONAL HVAC SYSTEM IN ACCORDANCE WITH ASHRAE AND NEBB.
- ALL SQUARE ELBOWS IN DUCTWORK SHALL HAVE DOUBLE THICKNESS TURNING VANES. ALL RADIUS ELBOWS IN DUCTWORK SHALL BE MINIMUM 1.5W (1.5xWIDTH) 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.
- COORDINATE WITH ELECTRICAL AND CONTROL CONTRACTORS FOR ALL POWER REQUIREMENTS PRIOR TO BID.

PLAN CHECK NOTES:

- CALIFORNIA MECHANICAL CODE 2013 (CMC 2013), CALIFORNIA PLUMBING CODE 2013 (CPC 2013) AND 2013 TITLE 24 ENERGY STANDARDS ARE THE CURRENT CODES/STANDARDS THAT ARE APPLICABLE TO THIS PROJECT.

PROJECT NOTES

- CONTRACTOR SHALL COORDINATE ARCHITECTURAL REFLECTED CEILINGS 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.
- 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.
- DO NOT COMMENCE WITH ANY INSTALLATION, DEMOLITION OR ORDERING OF ANY EQUIPMENT OR MATERIAL FABRICATION WITHOUT AN APPROVED SHOP DRAWING SUBMITTAL.
- 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.

TITLE 24 NOTES:

- NEW HVAC SYSTEMS SHALL MEET THE LATEST CONTROL REQUIREMENTS OF SECTIONS 110.2 & 120.2 ENERGY EFFICIENCY STANDARDS.
- 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-225, AND U.L. 723.
- ALL WORK SHALL BE IN ACCORDANCE WITH CITY CODES, CALIFORNIA ENERGY CONSERVATION STANDARDS, TITLE 24, AND ALL OTHER APPLICABLE CODES.
- ALL NEW DUCTWORK SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF SECTIONS 110.3, 120.3, 120.4 TITLE 24 ENERGY STANDARDS AND CHAPTER 6 OF CALIFORNIA MECHANICAL CODE.

CA GREEN BUILDING NOTES:

- IN MECHANICALLY VENTILATED BUILDINGS, PROVIDE OCCUPIED AREAS OF BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY THAT PROVIDES AT LEAST MERV OF 8 (REF. SECTION 5.504.5.3).
- PROVIDE TESTING AND ADJUSTING OF HVAC SYSTEMS AND CONTROLS PER 5.713.10.4.
- IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, RETURN AIR FILTERS WITH A MERV 8 RATING SHALL BE USED PER 5.714.4.1.
- DUCT OPENINGS AND OTHER RELATED AIR DISTRIBUTION OPENINGS SHALL BE COVERED DURING CONSTRUCTION PER 5.714.4.1.

MECHANICAL LEGEND

SYMBOL	ABBREV.	DESCRIPTION	SYMBOL	ABBREV.	DESCRIPTION
		REMOVE EXISTING EQUIPMENT OR PIPING SHOWN HATCHED		DN.	DOWN
		REMOVE AND RELOCATE EXISTING EQUIPMENT OR PIPING SHOWN HATCHED		DWGS.	DRAWINGS
	POC	POINT OF CONNECTION		DB	DRY BULB
	POD	POINT OF DISCONNECT		DTR	DUCT THRU ROOF
		COORDINATE WITH ELECTRICAL		(E)	EXISTING
		DUCTWORK (1ST NUMBER INDICATES WIDTH SHOWN, 2ND INSIDE DIMENSION)		EA	EXHAUST AIR
	TV	SQUARE ELBOW WITH TURNING VANES		ER	EXHAUST REGISTER
		RADIUS ELBOW WITH 3 SPLITTER VANES		EFF.	EFFICIENCY
	MVD	MANUAL VOLUME DAMPER		ELEV.	ELEVATION
	MOD	MOTOR OPERATED DAMPER		ENT.	ENTERING
	BDD	BACKDRAFT DAMPER		EXH.	EXHAUST
	SD	DUCT MOUNTED SMOKE DETECTOR		EXIST.	EXISTING
	FLEX	FLEXIBLE CONNECTION (DUCTWORK)		FIN.	FINISH
		LINED DUCTWORK (OR PLENUM)		FLR.	FLOOR
		DUCT RISE IN DIRECTION OF FLOW		GPM	GALLONS PER MINUTE
		DUCT DROP IN DIRECTION OF FLOW		IN.	INCH
		ROUND DUCT UP		HD.	HEAD
		ROUND DUCT DOWN		HP	HORSEPOWER
		SUPPLY DUCT UP		LVG.	LEAVING
		SUPPLY DUCT DOWN		MAX.	MAXIMUM
	RA/OA	RETURN AIR DUCT/OUTSIDE AIR DUCT UP		MBH	ONE THOUSAND B.T.U.'s PER HOUR
		RETURN AIR DUCT/OUTSIDE AIR DUCT DOWN		MECH.	MECHANICAL
		EXHAUST AIR DUCT UP		MIN.	MINIMUM
		EXHAUST AIR DUCT DOWN		MTD.	MOUNTED
		DUCT TRANSITION		MTG.	MOUNTING
	CD	CEILING DIFFUSER		OBD	OPPOSED BLADE DAMPER
	RR	RETURN REGISTER		OA	OUTSIDE AIR
	ER	EXHAUST REGISTER		PD	PRESSURE DROP
	TSTAT	THERMOSTAT OR TEMPERATURE SENSOR (NUMBER INDICATES EQUIPMENT ZONE SERVED)		PSIG	POUNDS PER SQUARE INCH GAUGE
	CFM	CUBIC FEET PER MINUTE		RA	RETURN AIR
		SYMBOL, SEE EQUIPMENT SCHEDULE		REG.	REGISTER
	AD/AP	ACCESS DOOR / ACCESS PANEL		RR	RETURN REGISTER
	AFF	ABOVE FINISHED FLOOR		SA	SUPPLY AIR
	BDD	BACK DRAFT DAMPER		SF	SQUARE FEET
	BOD	BOTTOM OF DUCT		TYP.	TYPICAL
	BOP	BOTTOM OF PIPE (ABOVE FIN. FLR.)		UNO	UNLESS NOTED OTHERWISE
	CD	CEILING DIFFUSER		UOS	UNLESS OTHERWISE SPECIFIED
	CLG.	CEILING		UTR	UP THRU ROOF
	CFM	CUBIC FEET PER MINUTE		VAV	VARIABLE AIR VOLUME
	CONC.	CONCRETE		VFD	VARIABLE FREQUENCY DRIVE
	CONT.	CONTINUATION		VTR	VENT THRU ROOF
	°F	DEGREES FAHRENHEIT		WG	WATER GAUGE
				WB	WET BULB
				W	WITH

MECHANICAL DEMOLITION PLAN

1

1/4" = 1'-0"

MECHANICAL NEW WORK PLAN

2

1/4" = 1'-0"

HMC Architects

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

KEYNOTES

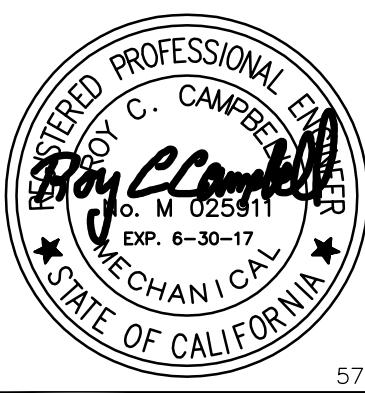
- ALL MECHANICAL DUCTWORK, DIFFUSERS, AND ASSOCIATED APPURTENANCES SHALL BE DEMOLISHED.
- POINT OF DISCONNECT TO EXISTING DUCT PLENUM TO REMAIN.
- POINT OF CONNECT TO EXISTING DUCTWORK PLENUM.
- EXISTING UNIT RTU-1 ON ROOF SHALL REMAIN.
- LIQUID AND SUCTION REFRIGERANT PIPING. SIZE PER MANUFACTURERS RECOMMENDATION.
- PROVIDE (N) THERMOSTAT FOR (E) RTU-1 ON ROOF.
- COARSE CIC-09M12 / COC-09M12 COOLING ONLY DUCTLESS SPLIT SYSTEM. 9000 BTUH. 115V/1PH/60Hz. SEER 13. PROVIDED BY OWNER. INSTALLED BY CONTRACTOR.
- CONNECT NEW CONDENSATE DRAIN TO TAIL OF SINK.
- PROVIDE WITH 120V-16W CONDENSATE PUMP.

NOTES

- ALL DUCTWORK, GRILLES AND DIFFUSERS AND CORRESPONDING APPURTENANCES SHALL BE NEW AND SHALL MATCH THE EXISTING IN THE BUILDING.
- DUCT SHALL BE GALVANIZED STEEL.



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DATE _____	

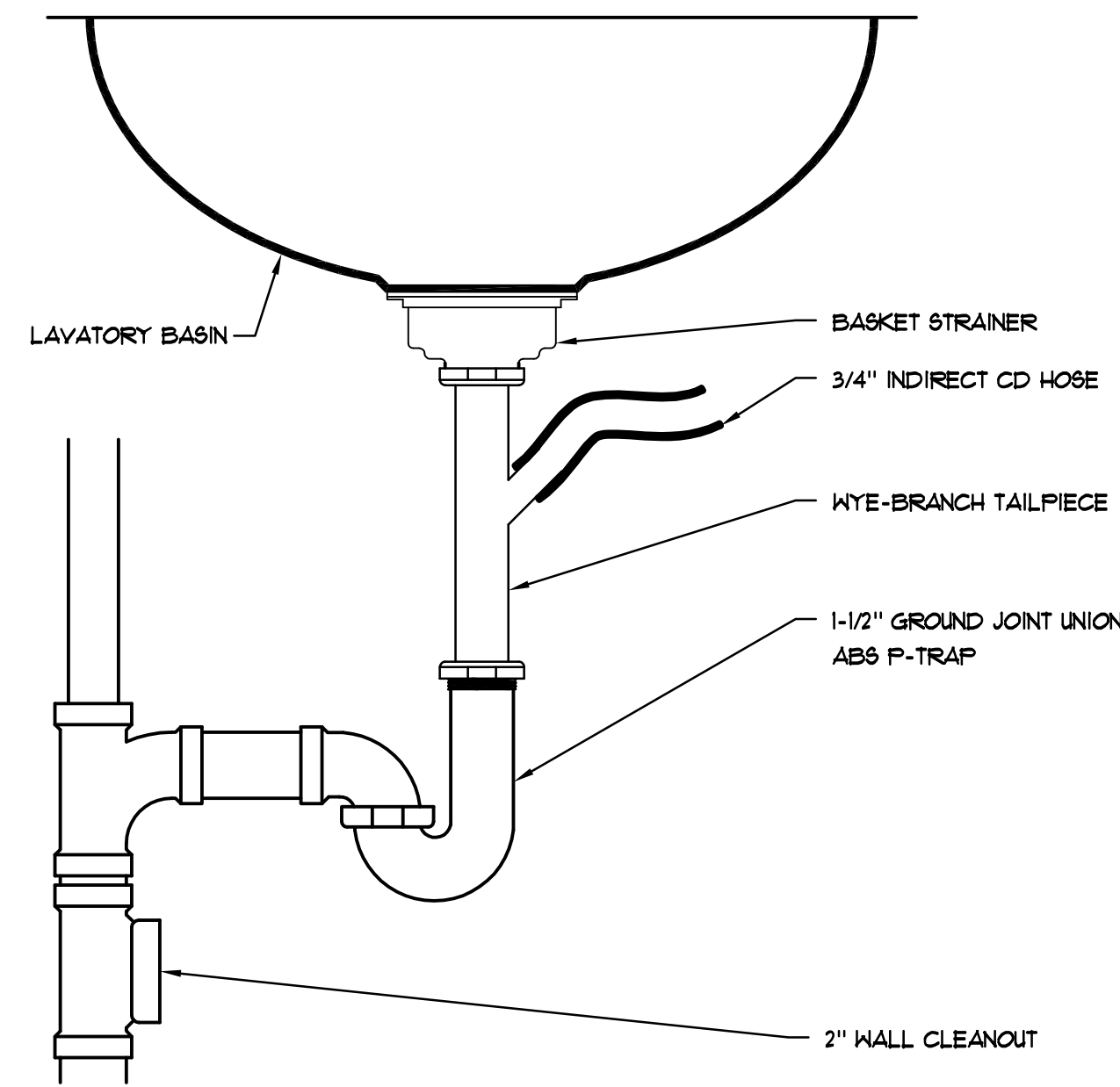
Project Title	PALOMAR COMMUNITY COLLEGE
	STUDENT AMBASSADORS_NB-2
	REMODEL
	1140 W. MISSION RD.
	SAN MARCOS, CA 92069-1487

No.	Description	Date

MECHANICAL DEMOLITION, FLOOR PLAN & ROOF PLAN

Architect's Seal	Designed: JN	Project No. 5015014
	Drawn: MH	Scale: As indicated
	QA/QC HS	Drawing No. M-2.1
	Date: 06/28/2016	

PLEASE RECYCLE



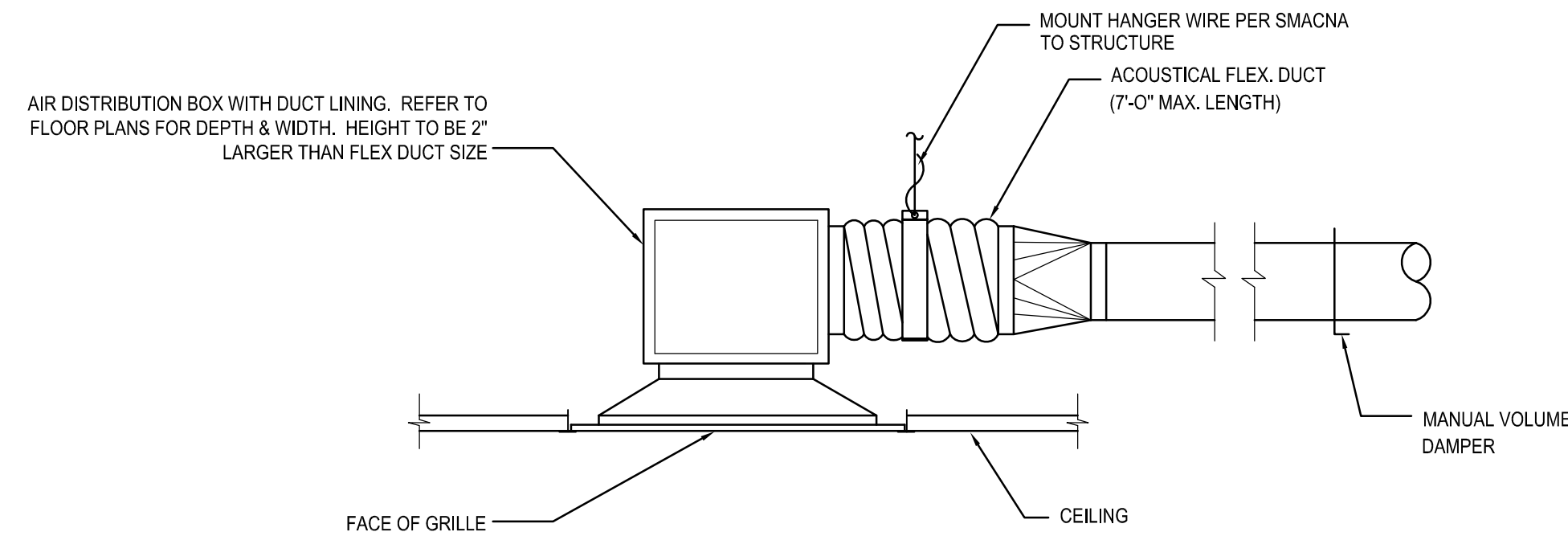
IN-DIRECT CONDENSATE WASTE CONNECTION
NO SCALE

7
M-5.1

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 PDMC PERFORATED FACE.	OPPOSED BLADE DAMPER	MODULAR CORE
		10x10	231-350			
		12x12	351-500			
		14x14	501-680	FOR INSTALLATION IN HARD CEILING, DUCTWORK OR FOR NECK SIZES ABOVE 18x18: PRICE SMCD		
		16x16	681-840			
		18x18	841-960			
SYMBOL	TYPE	NECK SIZE	MAX. CFM	MODEL	ACCESSORIES	STYLE
B TG	RETURN, EXHAUST, OR TRANSFER AIR GRILLE	8x8	200	FOR INSTALLATION IN LAY-IN CEILING. PRICE PDMC PERFORATED FACE.	OPPOSED BLADE DAMPER	RETURN, EXHAUST, OR TRANSFER AIR GRILLE
		10x10	300			
		12x12	450			
		14x14	600	FOR INSTALLATION IN HARD CEILING, DUCTWORK OR FOR NECK SIZES ABOVE 22x22: PRICE S30		
		16x16	800			
		18x18	1000			
		20x20	1200			
		22x22	1400			

AIR DISTRIBUTION SCHEDULE
NO SCALE

4
M-5.1

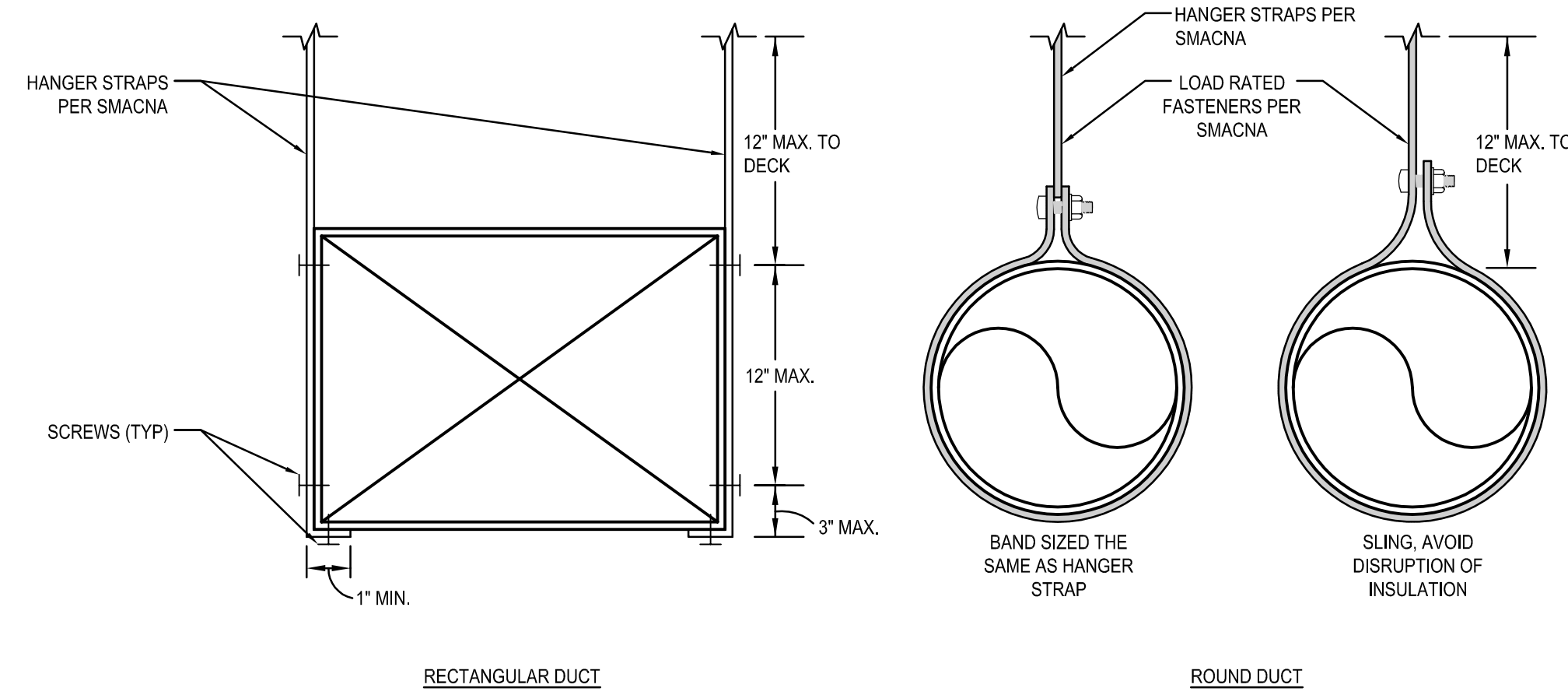


BRANCH DUCT SIZES	
SUPPLY AIR	
MAX. CFM	SIZE
0-95	6"Ø
95-210	8"Ø
210-370	10"Ø
370-600	12"Ø
600-900	14"Ø
900-1290	16"Ø
1290-1750	18"Ø
1750-2300	20"Ø

BRANCH DUCT SIZES	
RETURN / EXHAUST AIR	
MAX. CFM	SIZE
0-190	8"Ø
190-340	10"Ø
340-560	12"Ø
560-840	14"Ø
840-1190	16"Ø
1190-1610	18"Ø
1610-2150	20"Ø
2150-2750	22"Ø

AIR DISTRIBUTION CONNECTION DETAIL
NO SCALE

1
M-5.1

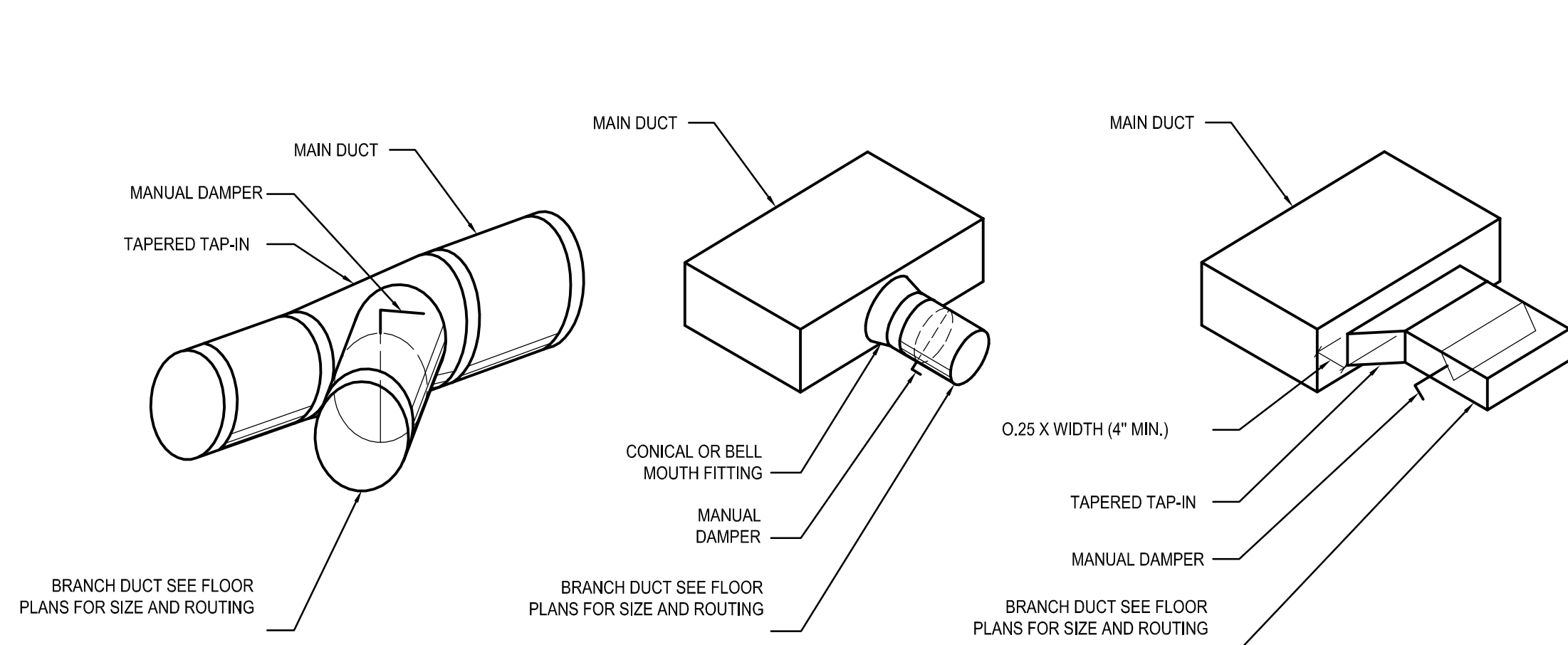


NOTES:

1. HANGER STRAP SPACING PER SMACNA
2. PROVIDE LATERAL BRACING PER OPA #0349

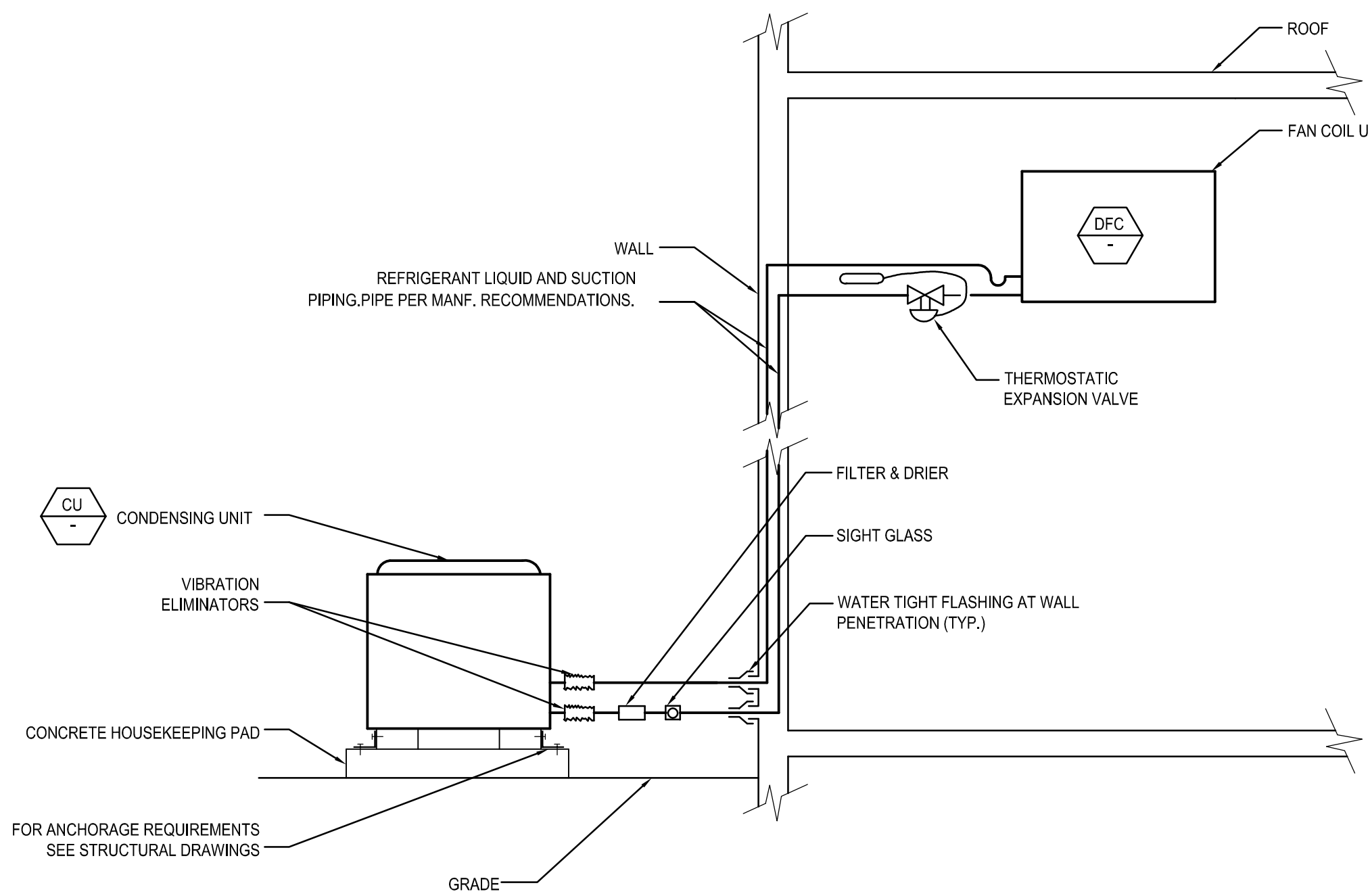
DUCT SUPPORT DETAIL
NO SCALE

5
M-5.1



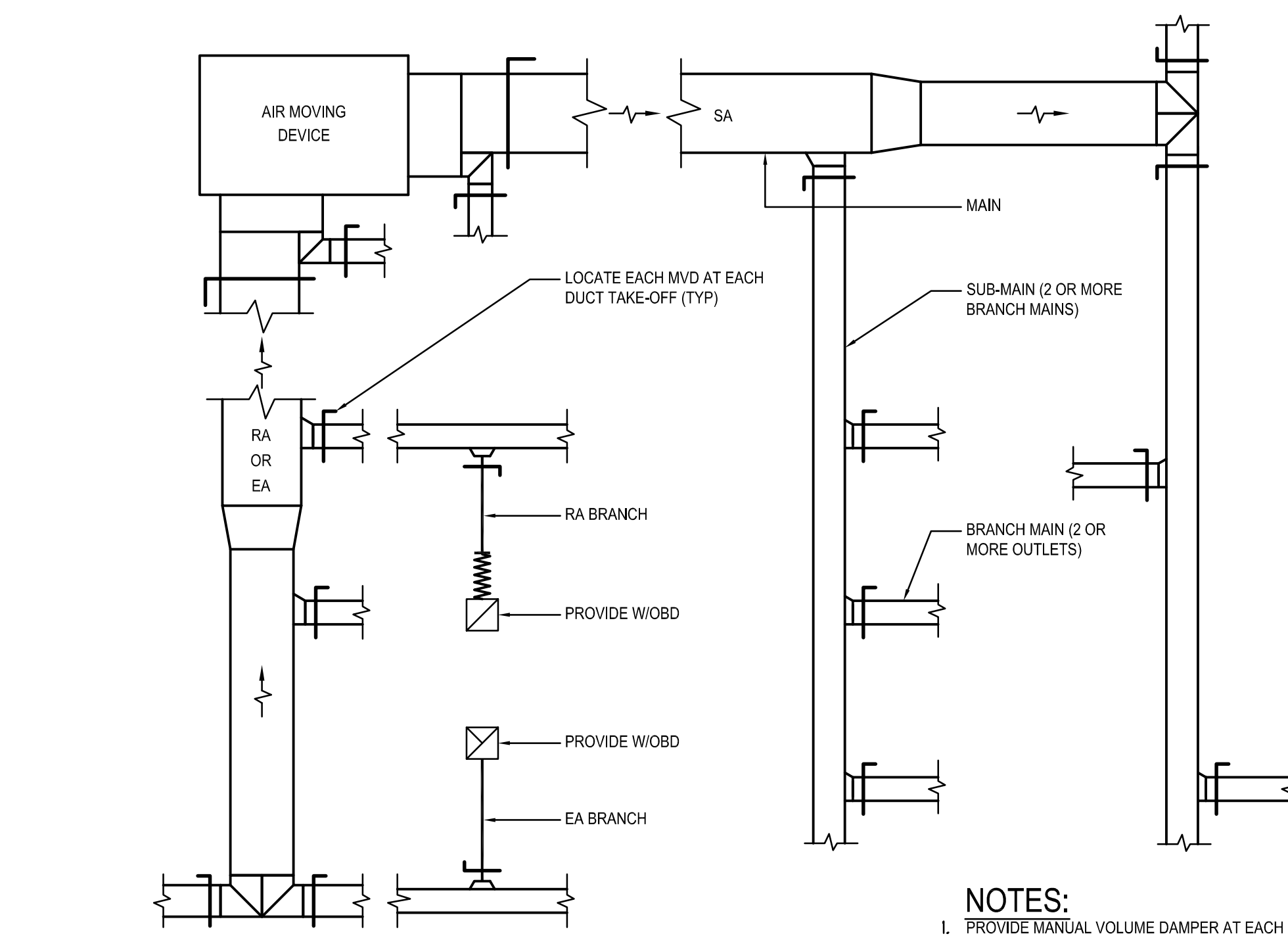
BRANCH DUCT TAKE OFF DETAIL
NO SCALE

2
M-5.1



REFRIGERANT PIPING DIAGRAM
NO SCALE

6
M-5.1



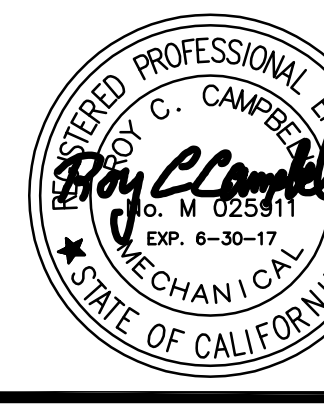
TYPICAL MANUAL VOLUME DAMPER LOCATION DIAGRAM
NO SCALE

3
M-5.1

SM



5160 Carroll Canyon Rd, Suite 200
San Diego, California 92121
Consulting Mechanical Engineers
858 200-0030 858 200-0037
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DATE _____

Project Title
PALOMAR COLLEGE
STUDENT AMBASSADORS_NB-2
REMODEL
1140 W. MISSION RD.
SAN MARCOS, CA 92069-1487

No.	Description	Date

Drawing Title:
MECHANICAL DETAILS AND SCHEDULES

Architect's Seal
DAVID C. CAMPBELL
NO. C-19082
11-30-17
STATE OF CALIFORNIA

Designed: JN Project No. 5015014
Drawn: MH Scale: As indicated
QA/QC HS Drawing No.
Date: 06/28/2016

M-5.1

ELECTRICAL SYMBOL LEGEND

POWER	
	DUPLEX RECEPTACLE, WALL MOUNTED, 1/8" AFF. (U.ON.)
	DUPLEX RECEPTACLE IN WEATHERPROOF ENCLOSURE 1/8" AFF. (U.ON.)
	DUPLEX RECEPTACLE, WALL MOUNTED 1/8" AFF. W/ USB CHARGING PORT. HUBBLE USB2/0X2 OR EQUAL.
	CODE SIZED JUNCTION BOX, CEILING OR WALL MOUNTED
	FUSED DISCONNECT SWITCH, WHERE SHOWN NF = NON-FUSED.
	CONDUIT AND WIRE, CONCEALED IN CEILING OR WALL
	CONDUIT AND WIRE, CONCEALED IN OR UNDER FLOOR
	FLEXIBLE CONDUIT CONNECTION
	BRANCH CIRCUIT HOMERUN TO PANEL. SLASHES INDICATE NUMBER OF CONDUCTORS. EQUIPMENT GROUND WIRE NOT INDICATED U.ON. #2 CONDUCTORS ARE MINIMUM, NO HASH MARKS = MIN (2) #2
	CONDUIT DROP OR TRANSITION.
	PANELBOARD SURFACE MOUNTED
	PANELBOARD RECESSED
	DISTRIBUTION SWITCHBOARD
	STEPDOWN TRANSFORMER
	SURFACE RACEWAY, VERTICAL TRANSITION.
	SURFACE MOUNTED RACEWAY SINGLE SECTION SERIES, NON METALLIC (WHITE)
	SURFACE MOUNTED RACEWAY TWO SECTION SERIES, NON METALLIC (WHITE)
	SURFACE MOUNTED RACEWAY THREE SECTION SERIES, NON METALLIC (WHITE)
	L14-30 (208v) 4W RECEPTACLE
	ENCLOSED CIRCUIT BREAKER

LIGHTING

	2' X 4' LIGHT FIXTURE
	2' X 2' LIGHT FIXTURE
	SINGLE POLE SWITCH
	THREE-WAY SWITCH 1/8" AFF. (U.ON.) HEIGHT PER DETAILS #1/E10
	LIGHTING FIXTURE DESIGNATION
	LIGHTING FIXTURE, CEILING OR WALL MOUNTED AS SHOWN.
	48"x4" STRIP FIXTURE
	CEILING MOUNTED (CORNER OF THE ROOM) OCCUPANCY SENSOR LIGHTING CONTROL
	CEILING MOUNTED OCCUPANCY SENSOR LIGHTING CONTROL

GENERAL SEISMIC REQUIREMENTS

- ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING:
2020 CBC CHAPTER 18, SECTION 1632.4 & TABLE 16-A-1 OF THE VOL. 2 TITLE 24, 2020 CBC.
 - IN LIEU OF CALCULATIONS PER NOTE 1 (ABOVE) - THE ANCHORAGE SHALL BE CAPABLE OF WITHSTANDING A LATERAL FORCE EQUAL TO 22 LBS ACTING SIMULTANEOUSLY WITH A VERTICAL FORCE EQUAL TO 0.7WUP (BOTH FORCES AT SERVICE LEVEL, THESE VALUES CORRESPOND TO AN 1p+1B AND CA+0.66, FOR OTHER VALUES OF 1p AND CA, THE LATERAL AND VERTICAL FORCE CAN BE ADJUSTED ACCORDINGLY).
 - INCLUSION OF VERTICAL FORCE PER TABLE 16-2 FOOTNOTE 20 (FOR EMERGENCY POWER SUPPLIES & COMMUNICATIONS EQUIPMENT ONLY).
 - THE CAPACITY OF THE ANCHORAGE CONNECTORS IN SHEAR AND/OR TENSION SHALL BE CLEARLY INDICATED IN THE CALCULATIONS WHICH INDICATE 100% REPORT NO. (IF APPLICABLE) THEIR TOTAL NUMBER, SIZE, GRADE, EMBEDMENT, EDGE DISTANCES, AND OTHER FACTORS WHICH AFFECT THE CAPACITY IN SHEAR AND TENSION.
- CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT WITH THE APPROVAL OF DSA REPRESENTATIVE.
- ALL WELDING SHALL BE SPECIALLY INSPECTED BY AN AWS-CWI QUALIFIED INSPECTOR APPROVED BY DSA/ORS.
- ALL BRACING OF CONDUITS SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA SEISMIC RESTRAINT MANUAL, "GUIDELINES FOR MECHANICAL SYSTEMS", 1991 OR LATEST EDITION, OSHPD R 10010.
- WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, ELECTRICAL ENGINEER AND DSA FIELD ENGINEER.
- A COPY OF THE GUIDELINES PUBLISHED BY SMACNA AND APPROVED BY DSA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.
- ANCHORAGE DETAILS FOR EQUIPMENT WHICH ARE NOT APPROVED DURING PLAN REVIEW ARE SUBJECT TO APPROVAL OF THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION AND INSPECTION BY THE PROJECT INSPECTOR.

GENERAL PROJECT NOTES:

- UNLESS WHERE OTHERWISE NOTED, ALL WORK INDICATED ON THESE DRAWINGS SHALL BE CONSIDERED NEW WORK.
- UNLESS WHERE OTHERWISE NOTED, ALL DIMENSIONS ARE TO BE CENTERLINE OF THE DEVICE.
- "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.
- EXISTING HIGH VOLTAGE AND LOW VOLTAGE ELECTRICAL LINES, WATER LINES, DRAIN LINES AND GAS LINES EXIST UNDER AREAS NOTED FOR NEW UNDERGROUND CONDUITS. THE CONTRACTOR SHALL PROVIDE AN INDEPENDENT PROFESSIONAL UTILITY LOCATING SERVICE. THIS SERVICE SHALL SURVEY ALL AREAS TO BE EXCAVATED TO DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES WHERE EXISTING UTILITIES ARE FOUND THE CONTRACTOR SHALL HAND DIG THOSE AREAS TO AVOID DISRUPTION.
- WHERE NEW UNDERGROUND CONDUITS ARE INSTALLED, THE CONTRACTOR SHALL FOTHOLE AND/OR HAND DIG SECTIONS WHERE THERE ARE SUSPECTED CONFLICTS WITH EXISTING UTILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATE REPAIRS TO EXISTING UNDERGROUND UTILITIES DAMAGED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL PATCH AND REPAIR EXISTING ASPHALT, CONCRETE AND LANDSCAPED AREAS REMOVED OR DAMAGED DURING CONSTRUCTION TO MATCH THE EXISTING CONDITIONS.
- REFERENCE SHEETS E31, E32 & E33 FOR ALL TYPICAL INSTALLATION DETAILS.

TECHNOLOGY SYMBOL LEGEND

SYMBOL	DESCRIPTION	BACKBOX/RING	FACEPLATE	CONDUIT/RACEWAY
	Single Port Data Outlet, 1/8" AFF. (U.ON.)	4-1/16" sq. 2" deep with single gang ring.	Single gang faceplate with two port openings one provided with one blank.	Provide 1" conduit stubbed into nearest accessible ceiling space. (U.ON.)
	Dual Port Data Outlet, 1/8" AFF. (U.ON.)	4-1/16" sq. 2" deep with single gang ring.	Single gang faceplate with two port openings.	Provide 1" conduit stubbed into nearest accessible ceiling space. (U.ON.)
	Triple Port Data Outlet, 1/8" AFF. (U.ON.)	4-1/16" sq. 2" deep with single gang ring.	Single gang faceplate with four port openings.	Provide 1" conduit stubbed into nearest accessible ceiling space. (U.ON.)
	Quadruple Port Data Outlet, 1/8" AFF. (U.ON.)	4-1/16" sq. 2" deep with single gang ring.	Single gang faceplate with four port openings.	Provide 1" conduit stubbed into nearest accessible ceiling space. (U.ON.)
	Local origination with dual port data and single port voice outlet, 1/8" AFF. (U.ON.)	(2) 4 1/16"sq. 2" deep with single gang ring each side by side. (1) for data and (1) for local origination. (Not a two gang box.)	(1) Faceplate by 16110 contractor. (1) Faceplate by 16180 contractor.	Provide 1 1/4" conduit from local origination box and 3/4" conduit from data box. Stub into nearest accessible ceiling. (U.ON.)
	Single port data outlet at wireless access point mounted in accessible ceiling (U.ON.)	4 1/16" square 2 1/8" deep box with single gang ring.	As required to accommodate the number of ports designated.	Not required in accessible ceiling.
	Television outlet, 1/8" AFF. (U.ON.)	4-1/16" sq. 2" deep with double gang ring.	Double gang faceplate with 2 1/2" I.D. hole.	Provide 1-1/4" conduit stubbed into nearest accessible ceiling (U.ON.)
	J-box for future data 1/8" AFF. (U.ON.)	4-1/16" sq. 2" deep with single gang ring.	Single faceplate with two gang port openings with blank inserts. Provided by 16110 contractor.	Provide 1" conduit stubbed into nearest accessible ceiling space. (U.ON.)
	Conduit stubbed above ceiling			Provide (1) 2" conduit for open wire communications system wiring (U.ON.)
	Conduit stubbed above ceiling			3/4" conduit stubbed from device to specific ceiling area.

COMMUNICATION / SECURITY SYMBOL LEGEND

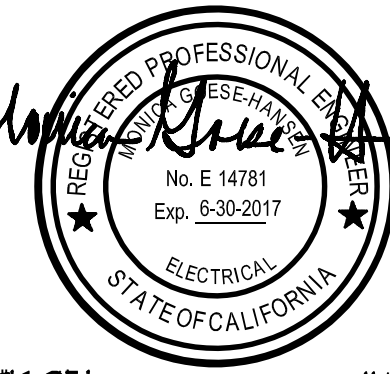
SYMBOL	DESCRIPTION	BACKBOX/RING	FACEPLATE	CONDUIT/RACEWAY
	Telephone outlet wall mounted 1/8" AFF. (U.ON.)	4" sq. 1-1/2" deep with single gang ring.	Single gang, as required by (16140) contractor	Provide 3/4" conduit stubbed into nearest accessible ceiling space. (U.ON.)
	Recessed ceiling intercom speaker	Custom backbox provided by 16140 contractor, installed by electrical contractor	Provided by (16140) contractor	Provide 3/4" conduit stubbed into nearest accessible ceiling space. (U.ON.)
	Surface wall interior intercom speaker 1/8"-0" (U.ON.)	4" sq. 1-1/2" deep with single gang ring.	Provided by (16140) contractor	Provide 3/4" conduit stubbed into nearest accessible ceiling space. (U.ON.)
	Recessed wall exterior intercom speaker 1/8"-0" (U.ON.)	4" sq. 1-1/2" deep with single gang ring.	Provided by (16140) contractor	Provide 3/4" conduit stubbed into nearest accessible ceiling space. (U.ON.)
	Clock wall mounted 1/8" AFF.	Not required	Not required	Not required
	Security sensor ceiling mounted	Ceiling backbox with single gang ring.	Provided by (16130) contractor	Provide 3/4" conduit stubbed into nearest accessible ceiling space. (U.ON.)
	Security sensor wall mounted 6" below ceiling or 10'-0" which ever is lower	4" sq. 1-1/2" deep with single gang ring.	Provided by (16130) contractor	Provide 3/4" conduit stubbed into nearest accessible ceiling space. (U.ON.)
	Security door contact	4" sq. 1-1/2" deep with single gang ring.	Provided by (16130) contractor	Provide 3/4" conduit stubbed into nearest accessible ceiling space. (U.ON.)

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
C	CONDUIT
CB	CIRCUIT BREAKER
CO	CONDUIT ONLY
CT	CURRENT TRANSFORMER
CU	COPPER
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CPFI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
DPDT	DOUBLE POLE DOUBLE THROW
DFST	DOUBLE POLE SINGLE THROW
DUG	DRAWING
EX	EXISTING
FLA	FULL LOAD AMPS
FVR	FULL VOLTAGE REVERSING
FVNR	FULL VOLTAGE NON-REVERSING
GF	GROUND FAULT INTERRUPTER
GND/GND	GROUND
HID	HIGH INTENSITY DISCHARGE
HQA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPB	HIGH PRESSURE SODIUM
HZ	HERTZ
KU	KILOWATT
LCL	LONG CONTINUOUS LOAD
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
MCC	MOTOR CONTROL CENTER
THOUSAND CIRCULAR MILS	THOUSAND CIRCULAR MILS
MECH	MECHANICAL
NF	NORMALLY CLOSED
NO	NON-FUSED
NO	NORMALLY OPEN/NUMBER
OPFI	OWNER FURNISHED CONTRACTOR INSTALLED
OFI	OWNER FURNISHED OWNER INSTALLED
P	POLE
PH	PHASE
POC	POINT OF CONNECTION
FRS	PVC COATED RIGID STEEL (CONDUIT)
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE DUCT
SUBD	SWITCHBOARD
TYP	TYPICAL
UG	UNDERGROUND
UN	UNLESS OTHERWISE NOTED
V	VOLT
VA	VOLT-AMPERES
VM	VOLTMETER
VL	VERIFY LOCATION
W	WIRE/WATTS
WP	WEATHERPROOF (NEMA TYPE 3R)
WT	WATERTIGHT
XP	EXPLOSION PROOF (RATED FOR AREA HAZARD)

KEYNOTES

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18376 Brookpointe Place, Suite 300
Poway, CA 92064
P 658.878.4080 | F 658.878.0568
www.joe-ho.com

#16051

11/4/2016

Consultant Seal

Agency Approval

FILE NO.

Project Title

STUDENT AMBASSADORS_NB-2 REMODEL

PALOMAR COMMUNITY
COLLEGE

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

No.	Description	Date

Drawing Title:

ELECTRICAL LEGEND AND NOTES

Architect's Seal



Designed: BG

Project No.

5015014

Drawn: VH

Scale:

As indicated

QA/QC

NC

Drawing No.

Date:

06/28/2016

E1.0



PLEASE RECYCLE

KEYNOTES



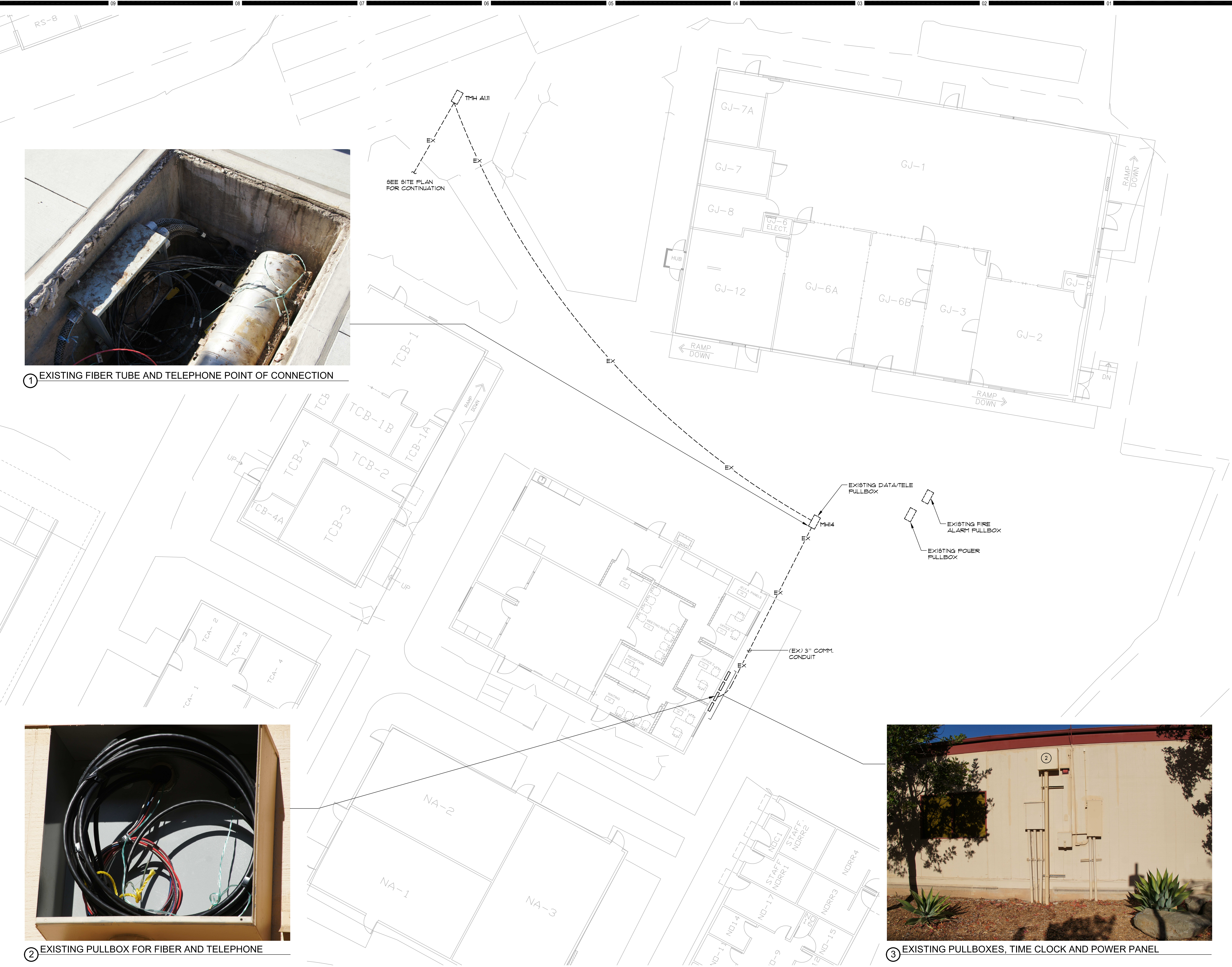
1 EXISTING FIBER TUBE AND TELEPHONE POINT OF CONNECTION



2 EXISTING PULLBOX FOR FIBER AND TELEPHONE



3 EXISTING PULLBOXES, TIME CLOCK AND POWER PANEL



4 PARTIAL SITE PLAN
1/8" = 1'-0"

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JOHNSON
CONSULTING ENGINEERS, INC.
Power | Lighting | Multimedia
Communications | Data Networking
1875 Brookpointe Place, Suite 800
Folsom, CA 95684
P 916.579.4080 | F 916.579.0559
www.joe-ho.com

Professional Seal: *Michael Johnson*, No. E-10151, Exp. 6/30/2017, ELECTRICAL, STATE OF CALIFORNIA

10/25/2016

Consultant Seal Agency Approval FILE NO.

Project Title
STUDENT AMBASSADORS_NB-2 REMODEL

PALOMAR COMMUNITY COLLEGE

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

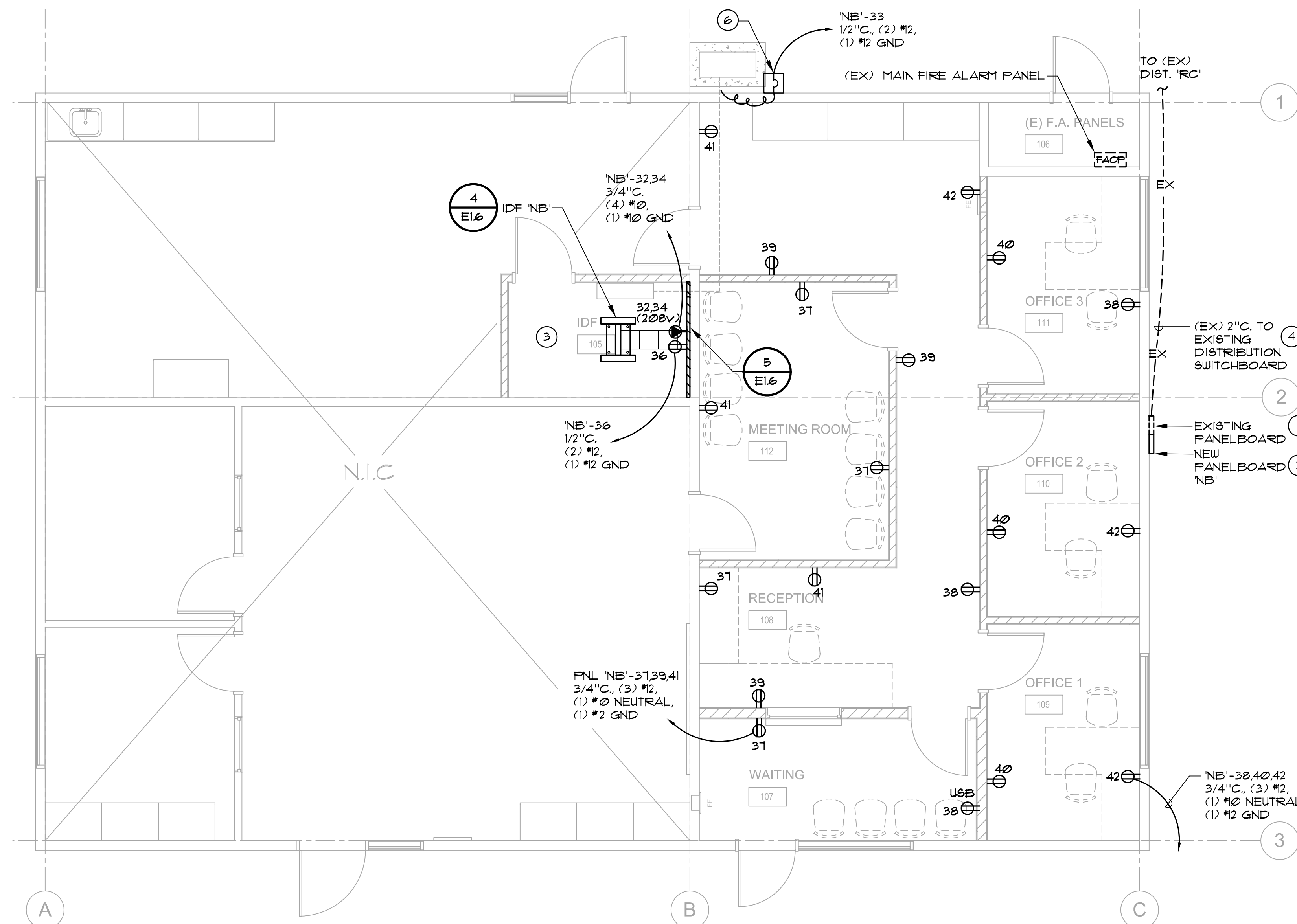
No.	Description	Date

Drawing Title:
PARTIAL SITE PLAN

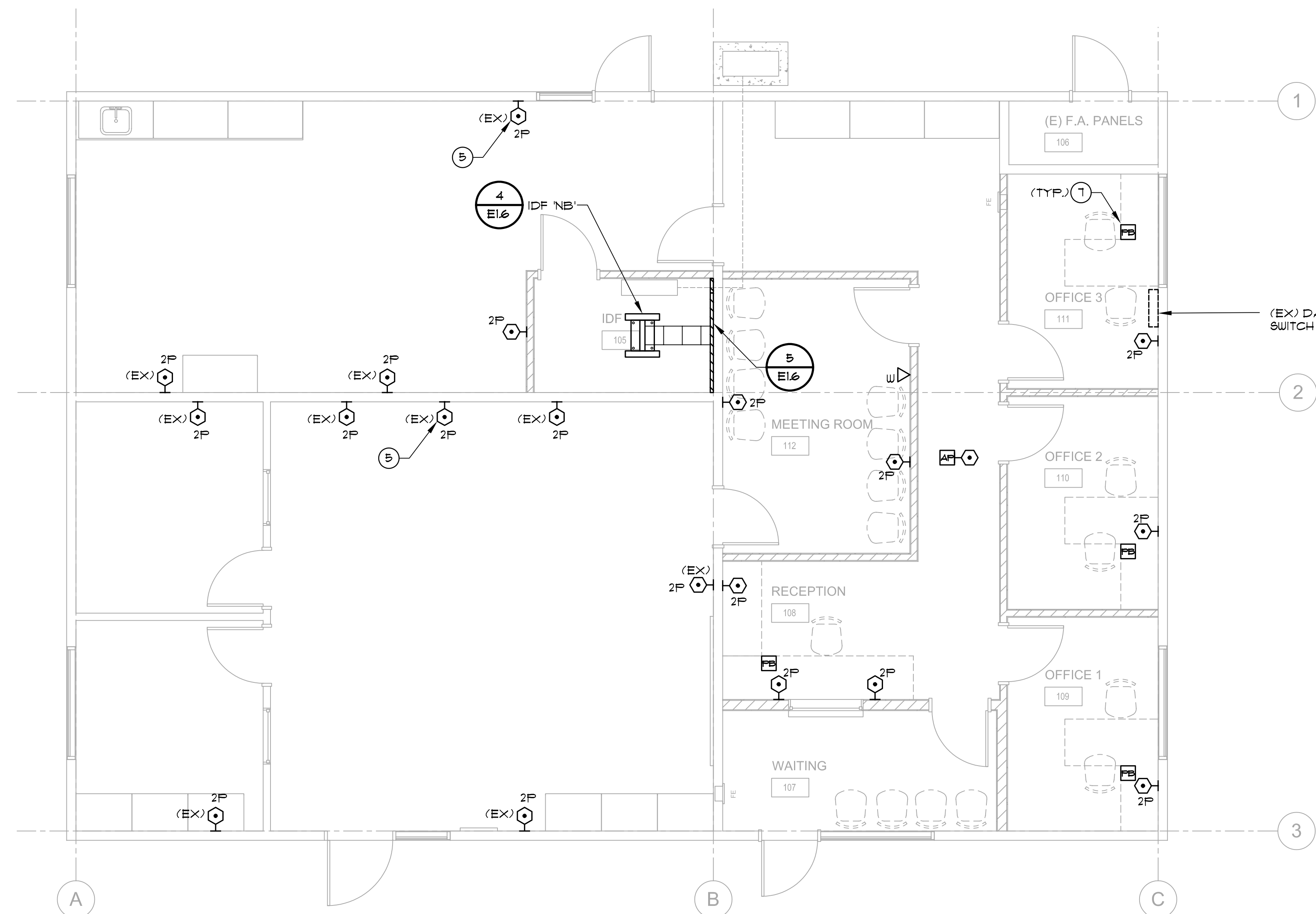
Architect's Seal: *KEVIN H. SALTZER*, NO. C-13082, ARCHITECT, STATE OF CALIFORNIA

Designed: BG	Project No. 5015014
Drawn: VH	Scale: As indicated
QA/QC: NC	Drawing No. E1.1.1
Date: 06/28/2016	

NB	120/208 3PH, 4WIRE			200	AMP	Main		Breaker	X	ENCLOSURE TYPE			ENCLOSURE			NOTE
	200% Neutral Bus					Enclosure		Lug		NEMA TYPE 1						
	(INTEGRAL)TVSS Protection							Recessed		X			NEMA TYPE 3R			
	(REMOTE)TVSS Protection							Surface	X							
Service Entrance Rated			X	GENERAL DISTRIBUTION		PROVIDE LOCK ON BREAKER DEVICES FOR ALL EMERGENCY LIGHTING, MOTORS, AND FIRE ALARM EQUIPMENT SERVED FROM THIS PANEL										
Load Side Feed thru Lugs			BREAKER REQUIREMENTS :													
LCL	NHL	CIRCUIT DESCRIPTION	AMP	POLE	NO	PHASE A	PHASE B	PHASE C	NO	AMP	POLE	CIRCUIT DESCRIPTION	LCL	NHL		
		EXISTING LOAD	20	1	1				2	20	1	EXISTING LOAD				
		EXISTING LOAD	20	1	3				4	20	1	EXISTING LOAD				
		EXISTING LOAD	20	1	5				6	20	1	EXISTING LOAD				
		EXISTING LOAD	20	1	7				8	20	1	EXISTING LOAD				
		EXISTING LOAD	20	1	9				10	20	1	EXISTING LOAD				
		EXISTING LOAD	20	1	11				12	20	1	EXISTING LOAD				
		EXISTING AC	30		13				14	30		EXISTING AC				
					15				16							
				3	17				18		3	EXISTING AC				
		EXISTING LOAD	20	1	19				20	30						
		EXISTING LOAD	20	1	21				22	20						
		EXISTING LOAD	20	1	23				24	20	3	EXISTING LOAD				
		EXISTING LOAD	20	1	25				26	20	1	EXISTING LOAD				
		EXISTING LOAD	20	1	27				28	20	1	EXISTING LOAD				
		EXISTING LOAD	20	1	29				30	20	1	EXISTING LOAD				
		EXISTING LOAD	20	1	31				32	30		IDF RECEPTACLE				
		SPLIT SYSTEM AC UNIT	20	1	33	1500		876 1500	34		2	IDF RECEPTACLE				
					35				36	20	1	RECEPTACLES				
		RECEPTACLES	20	1	37	800		1500	38	20	1	RECEPTACLES				
		RECEPTACLES	20	1	39	800			40	20	1	RECEPTACLES				
		RECEPTACLES	20	1	41			800	42	20	1	RECEPTACLES				
SPECIAL PANEL			NOTE #1													
NOTE			NOTE #2													
NHL= Non Harmonic Load LCL= Long Continuous Load			TOTAL LOAD PER PHASE 25% LONG CONTINUOUS LOADS			3100 0	3076 0	3100 0	HIGH PHASE 3076 / 10176 @ 0.9pf = KVA @ 132V 3.6/8 AMPS @ 0.9pf = KVA @ 208V/3PH 3.1/4 AMPS							
Max. Neut. Load			SUB PANEL			TOTAL			DEMOW PER 220-34 0.9 pf =							
56 AMPS			CONNECTED LOAD			3100	3076	3100	AMPS							



① FLOOR PLAN - POWER
1/4" = 1'-0"



② FLOOR PLAN - COMMUNICATIONS
1/4" = 1'-0"

KEYNOTES

GENERAL NOTES

1. NUMBERS ADJACENT TO EACH POWER DEVICE INDICATES THE CIRCUIT NUMBER TO WHICH THE DEVICE IS TO BE CONNECTED.
2. CIRCUIT HOOKUPS ARE INDICATED TO SHOW THE LOCATION AND NUMBER OF CIRCUITS TO BE GROUPED TOGETHER.
3. PROVIDE MINIMUM 1/2" CONDUIT AND #2 CIRCUIT CONDUCTORS AS REQUIRED TO CONNECT EACH POWER DEVICE TO THEIR INDICATED CIRCUIT (MAX.).
4. FIELD VERIFY EXACT ROUTING LOCATION FOR CONCEALED CONDUITS AND RECEPTACLES PRIOR TO ROUGH-IN.
5. REFERENCE E10 FOR TYPICAL CONDUIT AND BACKBOX SIZING.


KEY NOTES:

- 1 DISCONNECT AND REMOVE EXISTING PANELBOARD. KEEP SAFE ALL BRANCH CIRCUITS AND AC FEEDERS FOR RE-USE. REPLACE PANEL WITH NEMA 3R JUNCTION BOX TO FIT.
- 2 PROVIDE CLOSE NIPPLES BETWEEN NEW PANELBOARD 'NB' AND NEW NEMA 3R JUNCTION BOX. PROVIDE NEW PANEL FEEDER AND EXTEND ALL EXISTING BRANCH CIRCUITS AND AC CIRCUITS TO NEW PANELBOARD 'NB'. PROVIDE COMPLETE CONNECTION TO ALL EXISTING AND NEW BRANCH CIRCUITS, AC CIRCUITS AND FEEDERS.
- 3 EXTEND (1) DEDICATED 20A, 1P CIRCUIT AND (1) 20A, 208V CIRCUIT TO THIS LOCATION FOR 'IDF-NB' POWER.
- 4 PROVIDE (4) 3/0, (1) #4 GND IN EXISTING CONDUIT. PROVIDE CONNECTION BACK TO EXISTING DIST. 'RC'.
- 5 PULL BACK ALL EXISTING DATA DROPS FROM EXISTING SWITCH LOCATION. RE-ROUTE TO NEW IDF LOCATION. PROVIDE ALL TERMINATIONS TO NEW RACK EQUIPMENT.
- 6 PROVIDE NEMA 3R ENCLOSED 15A, 1 POLE CIRCUIT BREAKER TO POWER OUTDOOR UNIT OF SPLIT AC SYSTEM. PROVIDE SEALTIGHT FLEX CONNECTION TO UNIT.
- 7 PROVIDE PANIC BUTTON MOUNT TO UNDERSIDE OF DESK. PROVIDE CONNECTION TO EXISTING SECURITY SYSTEM. VERIFY/COORDINATION WITH COLLEGE STAFF.

Project Title STUDENT AMBASSADORS_NB-2 REMODEL PALOMAR COMMUNITY COLLEGE 1140 W. MISSION RD. SAN MARCOS, CA 92069-1487	
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Drawing Title:
A FLOOR PLAN - POWER AND COMMUNICATIONS

	Designed:	BG	Project No.	501501
	Drawn:	VH	Scale:	As indicated
	QA/QC	NC	Drawing No.	E1.2
	Date:	06/28/2016		

DEMOLITION GENERAL NOTES:

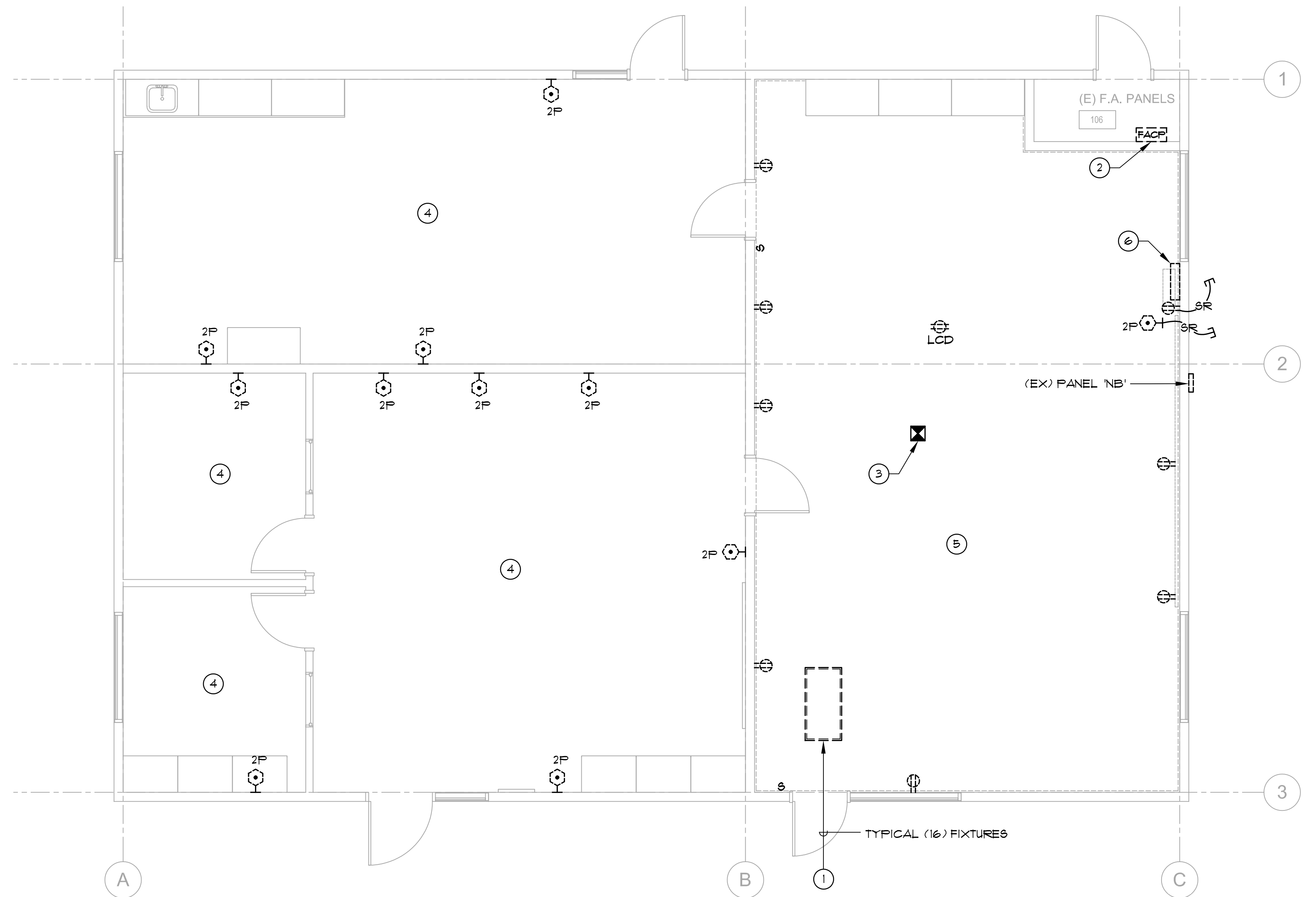
2. ALL ELECTRICAL DEMOLITION WORK SHALL BE DIRECTED BY THE ELECTRICAL CONTRACTOR.

GENERAL DEMOLITION REQUIREMENTS

3. FIRE ALARM
WHERE EXISTING FIRE ALARM PANELS AND ASSOCIATED SMOKE, HEAT, DUCT DETECTORS, PULL STATIONS AND STROBE OR HORN UNITS ARE TO BE REMOVED, THE CONTRACTOR SHALL DISPOSED OF ALL DEVICES AND EQUIPMENT AS REQUIRED.

KEY NOTES:

- ITEMS IN THIS SPACE ARE TO REMAIN ENERGIZED.



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

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**2875 Brookprinter Place, Suite 300
Poway, CA 92064**

www.joe-inc.com

Consultant Seal

Agency Approval

FILE NO.

Project Title
STUDENT AMBASSADORS_NB-2 REMODEL

PALOMAR COMMUNITY

COLLEGE

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Drawing Title:
DEMOLITION FLOOR PLAN



Designed:	Project No.
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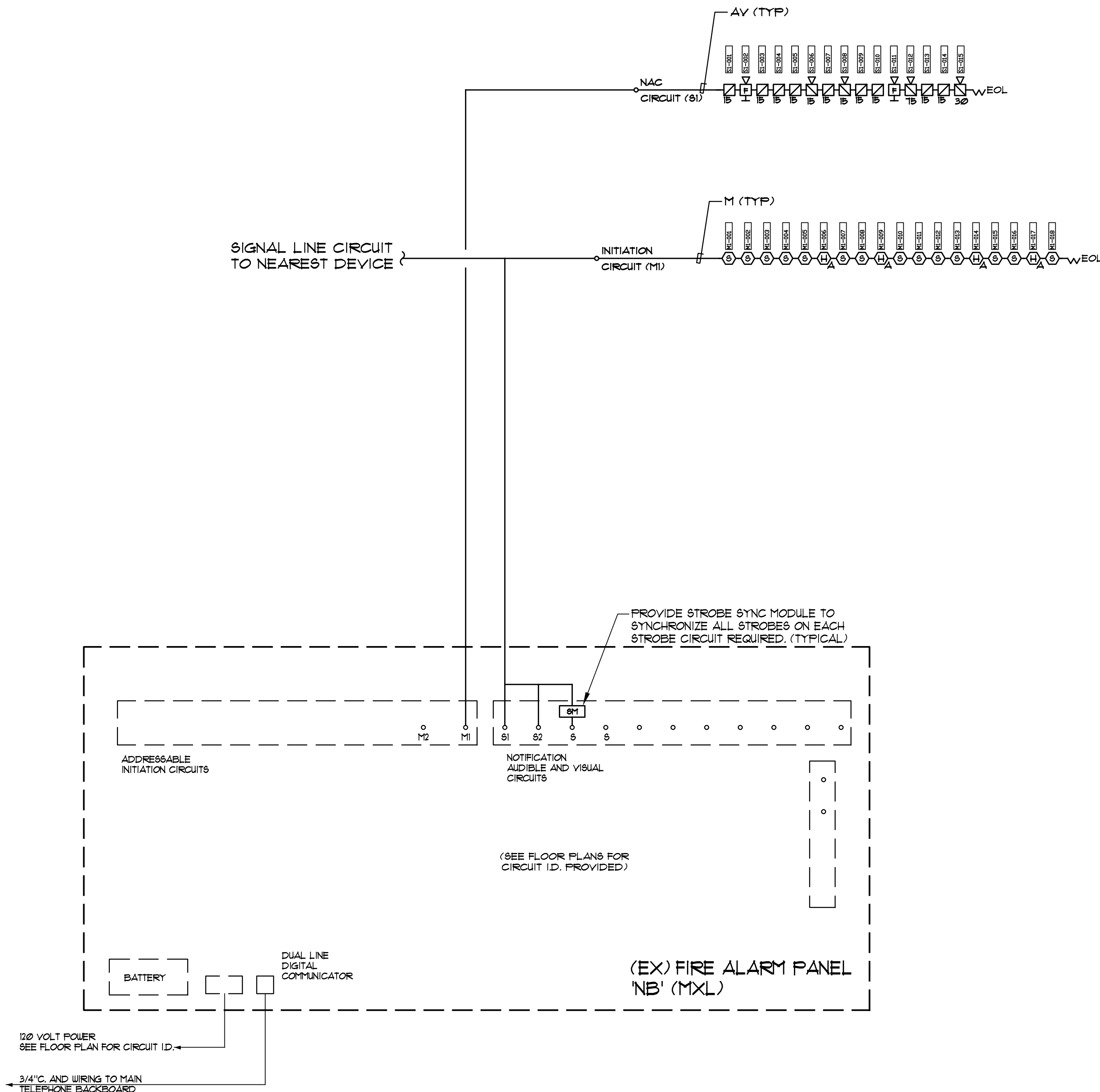
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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Drawn: VH | Scale: As indicated

DATE	2014.11.11
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NC

Date: _____ E1.4



FIRE ALARM RISER DIAGRAM
NO SCALE

SIEMENS MODEL MXL				
SYM	MODEL NO.	DESCRIPTION	C.S.F.M. LISTING	MFG.
FA20	FIREFINDER XLS	FIRE ALARM CONTROL PANEL (EXIST.)	7165-0067222	SIEMENS
Ⓢ	HFP-11	INTELLIGENT SMOKE DETECTOR	7272-0067203	SIEMENS
Ⓢ	DB-11	SENSOR BASE	7300-0067134	SIEMENS
Ⓢ	HFPT-11	INTELLIGENT HEAT DETECTOR	7270-0067224	SIEMENS
Ⓢ	DB-11	SENSOR BASE	7300-0067134	SIEMENS
Ⓢ	HFPT-11	INTELLIGENT HEAT DETECTOR (ABOVE CEILING)	7270-0067224	SIEMENS
Ⓢ	DB-11	SENSOR BASE	7300-0067134	SIEMENS
H2	AS-24MCW	HORN/STROBE (15/30/75/110) cd	7125-0785131	WHEELLOCK
H2	AS-24MCC	HORN/STROBE (15/30/75/95) cd (CEILING MOUNTED)	7125-0785131	WHEELLOCK
H2	AH-24WP-R	EXTERIOR HORN	7125-0785131	WHEELLOCK
WFP		EXTERIOR FLUSH PLATE (PART OF ABOVE)		
H2	RSS-24MCV	STROBE (15/30/75/110) cd	7125-0785141	WHEELLOCK
H2	RSS-24MCC	STROBE (15/30/75/95) cd (CEILING MOUNTED)	7125-0785141	WHEELLOCK
~	TYPE THHN	AUDIO VISUAL AND POWER CONDUCTORS (AV,P)	N/A	SOUTHWIRE

Building NB				
Remote Extender Panel				
Supplementary Notification Appliance Circuit Battery Calculations				
Standby Amperage			Alarm Amperage	
Type of Device Or Equipment	Qty	Current	Quantity	Current
Extender Panel (PADS)	1	0.006	1	0.006
Dual Sync Module	1	0.035	1	0.035
Exterior Horn	2	0.000	2	0.043
15ccd Horn/Strobe	0	0.000	0	0.000
30ccd Horn/Strobe	0	0.000	0	0.114
75ccd Horn/Strobe	0	0.000	0	0.157
110ccd Horn/Strobe	0	0.000	0	0.197
15ccd Horn/Strobe (Ceiling)	2	0.000	2	0.073
30ccd Horn/Strobe (Ceiling)	1	0.000	1	0.087
75ccd Horn/Strobe (Ceiling)	1	0.000	1	0.139
95ccd Horn/Strobe (Ceiling)	0	0.000	0	0.186
15ccd Strobe Only	0	0.000	0	0.041
30ccd Strobe Only	0	0.000	0	0.062
75ccd Strobe Only	0	0.000	0	0.116
110ccd Strobe Only	0	0.000	0	0.155
15ccd Strobe Only (Ceiling)	9	0.000	9	0.057
30ccd Strobe Only (Ceiling)	0	0.000	0	0.072
75ccd Strobe Only (Ceiling)	0	0.000	0	0.128
95ccd Strobe Only (Ceiling)	0	0.000	0	0.171
Total Standby Amperage		0.041	Total Alarm Amperage	
Standby Time Required				
24 Hours x Total Standby Amperage		=	24 x 0.041	
Alarm Time Required				
0.83 (5 Min.) x Total Alarm Amperage		=	.083 x 1.012	
Total Required			= 1.068	
Minimum Battery Amp Hour Required			= 7	

Fire Alarm Voltage Drop Calculations				
Calculation Formula:				
Total Current x Feet x 21.6 (Voltage Drop)				
Circular Mills				
Voltage Drop / 24 Volts x 100 Percent = Percentage Voltage Drop				

Building NB				
Circuit ID	Device Type	Devices x Current	Total Current	Distance in Feet
S 1	Exterior Horn	2	0.043	0.086
	Sync Module	0	0.035	0.000
	15ccd Horn / Strobe	0	0.000	0.000
	30ccd Horn / Strobe	0	0.114	0.000
	75ccd Horn / Strobe	0	0.157	0.000
	110ccd Horn / Strobe	0	0.197	0.000
	15ccd Horn / ST (Ceiling)	2	0.073	0.146
	30ccd Horn / ST (Ceiling)	1	0.087	0.087
	75ccd Horn / ST (Ceiling)	1	0.139	0.139
	95ccd Horn / ST (Ceiling)	0	0.186	0.000
	15ccd Strobe	0	0.041	0.000
	30ccd Strobe	0	0.062	0.000
	75ccd Strobe	0	0.116	0.000
	110ccd Strobe	0	0.155	0.000
Total	15ccd Strobe (Ceiling)	9	0.057	0.513
	30ccd Strobe (Ceiling)	0	0.072	0.000
	75ccd Strobe (Ceiling)	0	0.128	0.000
	95ccd Strobe (Ceiling)	0	0.171	0.000
			0.971	250

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

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

ANNUNCIATOR ZONE SCHEDULE						
	ROOM SMOKE OR HEAT DETECTORS	ABOVE CEILING HEAT DETECTORS	MANUAL PULL STATIONS	DUCT DETECTORS	SPRINKLER SYSTEM	TROUBLE INDICATION
RELO	YES	YES	N/A	N/A	N/A	YES
NOTES:						
1. ALL SMOKE DETECTORS, HEAT DETECTORS ABOVE CEILING DETECTORS, DUCT DETECTORS MANUAL PULL STATIONS, FLOW SWITCHES, TAMPER SWITCHES SHALL BE INDIVIDUALLY ADDRESSABLE.						
2. PROVIDE (1) ANNUNCIATOR WHICH WILL PROVIDE LED LIGHT INDICATORS TO IDENTIFY THE ABOVE ZONE SCHEDULE (IN ADDITION TO ANNUNCIATOR NOTED IN NOTE # 3).						
3. PROVIDE (1) 32 CHARACTER BACK-LIGHTED ALPHA-NUMERIC DISPLAY ANNUNCIATOR WITH KEYPAD FOR OPERATOR CONTROL, PROGRAMMING AND TESTING.						

MAXIMUM NUMBER OF CONDUCTORS IN TRADE SIZES OF CONDUIT OR TUBING MINIMUM CONDUIT SIZE FOR THIS PROJECT IS 3/4"										
CONDUIT TRADE SIZE (INCHES)	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
TYPE LETTERS	CONDUCTOR SIZE AWG, kcmil	13	10	16	29	69	94	154	164	
THWN	12	10	16	29	51	94	70	114	164	
THHN	10	8	11	16	32	44	73	104	160	136

AREA - SQUARE INCHES									
TRADE SIZE	INTERNAL DIAMETER INCHES	100% INCHES	OVER 2 COND. USE	1	2	3	4	5	6
1/2	.822	.30	.12	38%	68%	99%	X	X	X
3/4	.824	.53	.21	19%	38%	57%	76%	95%	X
1	1.049	.86	.34	12%	24%	36%	48%	60%	72%
1 1/4	1.380	1.50	.60	7%	14%	21%	28%	35%	42%
1 1/2	1.610	2.04	.82	5%	10%	15%	20%	25%	30%
2	2.067	3.36	1.34	3%	6%	9%	12%	15%	18%

APPLICABLE STANDARDS

NFPA 13 AUTOMATIC SPRINKLER SYSTEMS 2013 EDITION
NFPA 14 STANDPIPE SYSTEMS (CA AMENDED) 2013 EDITION
NFPA 17A WEST CHEMICAL SYSTEMS 2013 EDITION
NFPA 220 STATIONARY FUMES 2013 EDITION
NFPA 24 PRIVATE FIRE MAINS (CA AMENDED) 2013 EDITION
NFPA 72 NATIONAL FIRE ALARM CODE (CA AMENDED) 2013 EDITION
NFPA 80 FIRE DOOR AND OTHER OPENING PROTECTIVES 2013 EDITION
NFPA 220201 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 2013 EDITION
REFERENCE CODE SECTION FOR NFPA STANDARDS - 2013 CBC (6FM) CHAPTER 35.
SEE CHAPTER FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

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 CBC SECTION 907. THE SUPERVISING STATION SHALL BE LISTED AS EITHER ULFV OR ULV BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3001 SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.

FIRE ALARM GENERAL REQUIREMENTS.

- THE COMPLETE INSTALLATION SHALL BE REVIEWED AND APPROVED BY THE ABOVE LOCAL MANUFACTURERS REPRESENTATIVE. SEE SPECIFICATIONS (28 30 20) FOR ADDITIONAL CONTRACTOR QUALIFICATIONS AND REQUIREMENTS.
- UNLESS OTHERWISE NOTED SOLID LINES BETWEEN DEVICES SHALL BE 3/4" EMT, 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.
- 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.
- 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 20). THE CONTRACTOR SHALL FURNISH 25 METERS AND ALL OTHER EQUIPMENT TO PERFORM THESE TESTS.
- ALL CONDUIT PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL PREVENT THE PASSAGE OF HEAT, SMOKE AND FIRE GASES. ALL PENETRATIONS SHALL COMPLY WITH UL ASSEMBLY UL-1001. REFER TO THROUGH-PENETRATION FIRESTOP DETAIL ON THE DETAIL SHEET.
- ALL OPERATING HARDWARE AT INITIATING DEVICES SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST, AND THE FORCE REQUIRED TO OPERATE SHALL BE LESS THAN 5 POUNDS.

APPLICABLE CODES

2013 BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24 C.C.R.)
2013 CALIFORNIA BUILDING CODE (PART 2, TITLE 24 C.C.R.)
(2012 INTERNATIONAL BUILDING CODE WITH 2013 CALIFORNIA AMENDMENTS)
2013 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24 C.C.R.)
(2014 NATIONAL ELECTRICAL CODE AND 2013 CALIFORNIA AMENDMENTS)
2013 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, C.C.R.)
(2012 UNIFORM MECHANICAL CODE WITH 2013 CALIFORNIA AMENDMENTS)
2013 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, C.C.R.)
(2012 UNIFORM PLUMBING CODE AND 2013 CALIFORNIA AMENDMENTS)
2013 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, C.C.R.)
2013 CALIFORNIA FIRE CODE (PART 9, TITLE 24, C.C.R.)
(2012 INTERNATIONAL FIRE CODE AND 2013 CALIFORNIA AMENDMENTS)
2013 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
2013 CALIFORNIA REFERENCED STANDARDS (PART 12, TITLE 24, C.C.R.)
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

HMC Architects

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

KEYNOTES

Consultant

JOHNSON CONSULTING ENGINEERS, INC.
Power | Lighting | Multimedia
Communications | Data Networking
12575 Brookpointe Place, Suite 800
Poway, CA 92064
P 619.579.4080 | F 619.579.0589
www.joe-ho.com

10/25/2016

Consultant Seal

Agency Approval

FILE NO.

Project Title
STUDENT AMBASSADORS_NB-2 REMODEL

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

No.	Description	Date

Drawing Title:
FA RISER AND CALCS

Architect's Seal

Designed: BG Project No. 5015014

Drawn: VH Scale: As indicated

QA/QC NC Drawing No.

Date: 06/28/2016

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