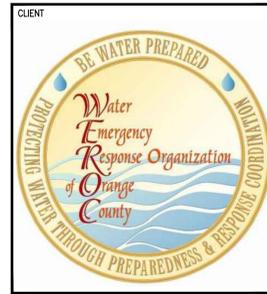
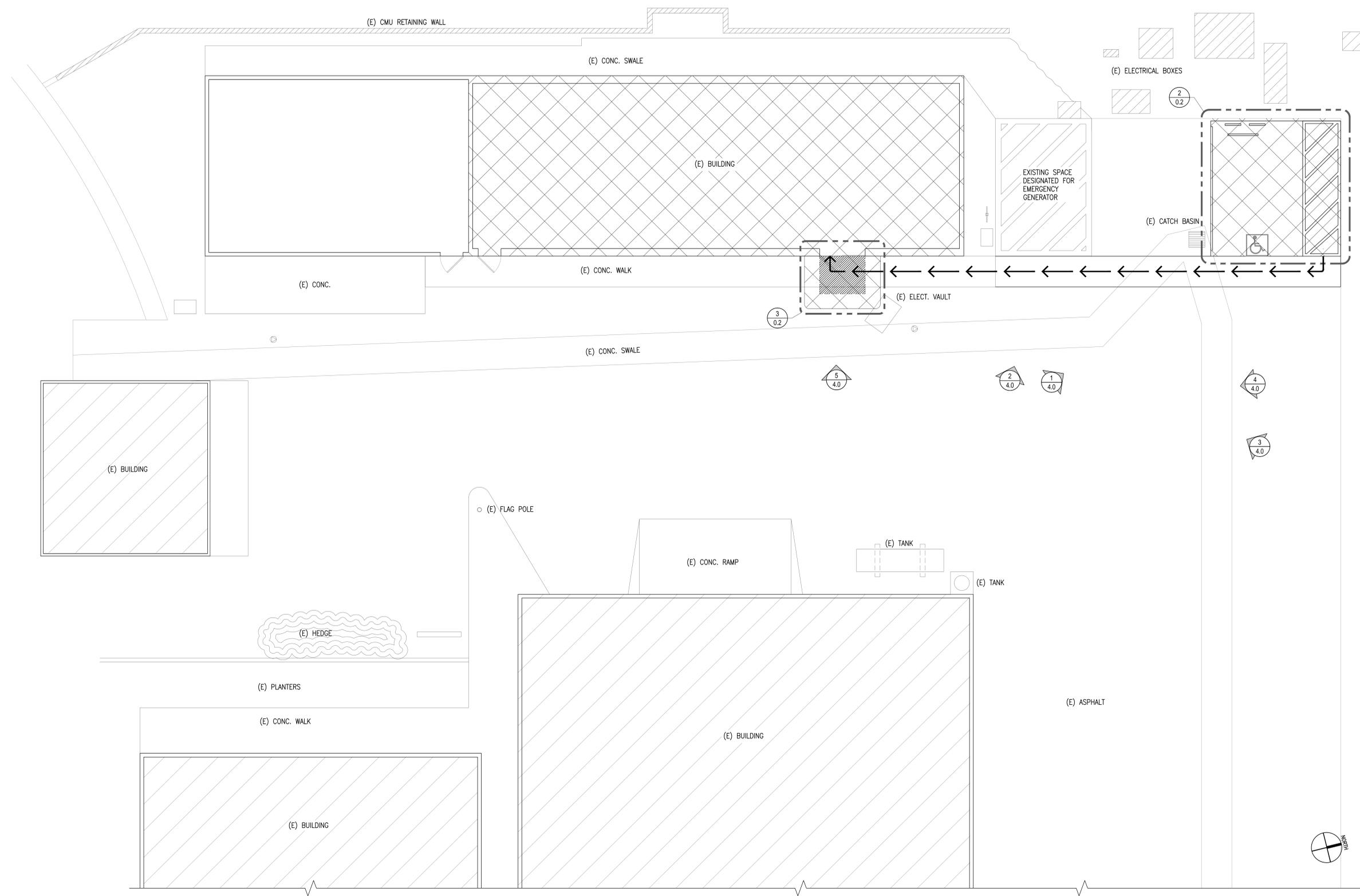


LEGEND:
 INDICATES PHOTOS ON SHEET 4.0
 PATH OF TRAVEL



PROJECT NAME
**WATER EMERGENCY
 RESPONSE ORGANIZATION
 OF ORANGE COUNTY
 SOUTH EMERGENCY
 OPERATIONS CENTER**
**SUPPORT AND BRACING
 OF NON-STRUCTURAL
 ELEMENTS**
 26081 VIA PERA
 MISSION VIEJO, CA 92691

ENGINEER/ARCHITECT

**IDS
 IDS GROUP**
 1 PETERS CANYON ROAD, SUITE 130
 IRVINE, CA 92606
 TEL: 949-387-8500, FAX: 949-387-0800

STAMP

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 DATE SIGNED: 02-27-2018

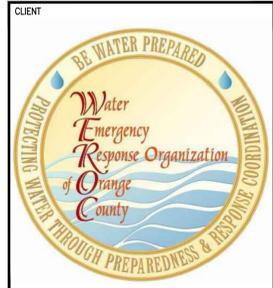
REV.	DESCRIPTION	DATE
1	PLAN CHECK 1ST REVIEW	4/11/18

KEY PLAN

PROJECT NO. 175020.01
 PRINT DATE
 DRAWN BY
 CHECKED BY D.P

SHEET TITLE
**PARTIAL
 SITE PLAN**

SHEET NUMBER
0.1
 SHEET NO. OF XXX



CLIENT
WATER EMERGENCY RESPONSE ORGANIZATION OF ORANGE COUNTY SOUTH EMERGENCY OPERATIONS CENTER
SUPPORT AND BRACING OF NON-STRUCTURAL ELEMENTS
 26081 VIA PERA
 MISSION VIEJO, CA 92691

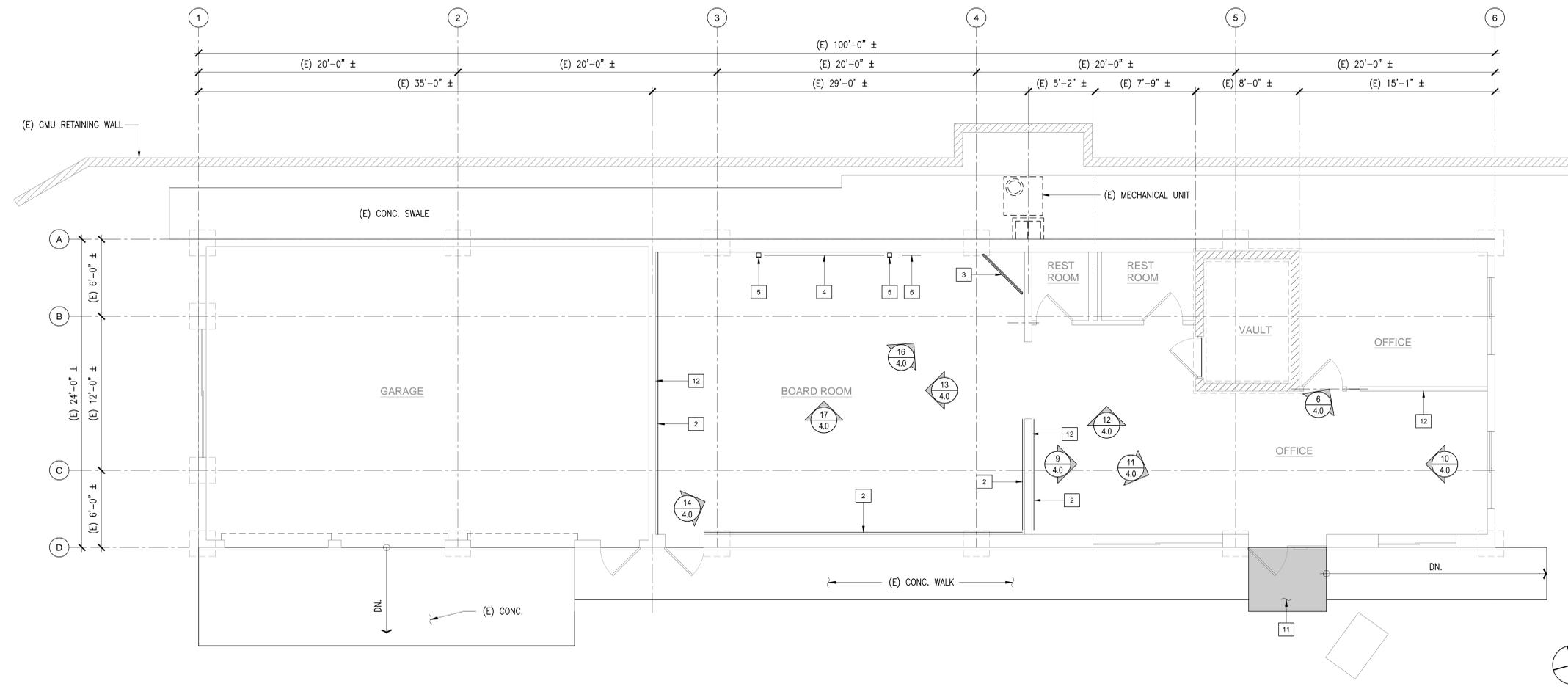
ENGINEER/ARCHITECT

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 IRVINE, CA 92606
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- KEYNOTES:**
- 1 REMOVE AND REPLACE SUSPENDED CEILING AND INSULATION. (E) LIGHTS AND HVAC REGISTERS TO REMAIN SUPPORT AND BRACE CEILING LIGHTS, REGISTERS AND EQUIPMENT PER SHEET 3.0. REUSE (E) INSULATION.
 - 2 (E) WALL MOUNTED WHITE BOARDS TO REMAIN PROTECT IN PLACE
 - 3 (E) WALL MOUNTED TV TO REMAIN PROTECT IN PLACE
 - 4 (E) WALL MOUNTED SCREEN TO REMAIN PROTECT IN PLACE
 - 5 (E) WALL MOUNTED SPEAKER TO REMAIN PROTECT IN PLACE
 - 6 (E) WALL MOUNTED SIGN TO REMAIN PROTECT IN PLACE
 - 7 (E) POWER DROP TO REMAIN PROTECT IN PLACE
 - 8 (E) CEILING HUNG SIGN REMOVE AND REINSTALL ON CEILING
 - 9 (E) CEILING MOUNTED PROJECTOR REMOVE AND REINSTALL ON CEILING
 - 10 (E) WALL MOUNTED EXIT SIGN TO REMAIN PROTECT IN PLACE.
 - 11 REMOVE AND REPLACE LANDING PER SHEET 0.2
 - 12 PROVIDE PARTITION BRACING AT 8'-0" O.C. MAX. PER 15/S3.0 TO 18/S3.0
 - 13 PROVIDE COIL STRAP BRACING TO (E) CEILING JOIST FOR EXISTING ± 6 GAL. WATER HEATER. PROVIDE STRAP IN 4 DIRECTIONS MIN. W/ #10 SCREWS TO HEATER AND FRAMING, TYP.

LEGEND:
 INDICATES PHOTOS ON SHEET 4.0

ISSUE

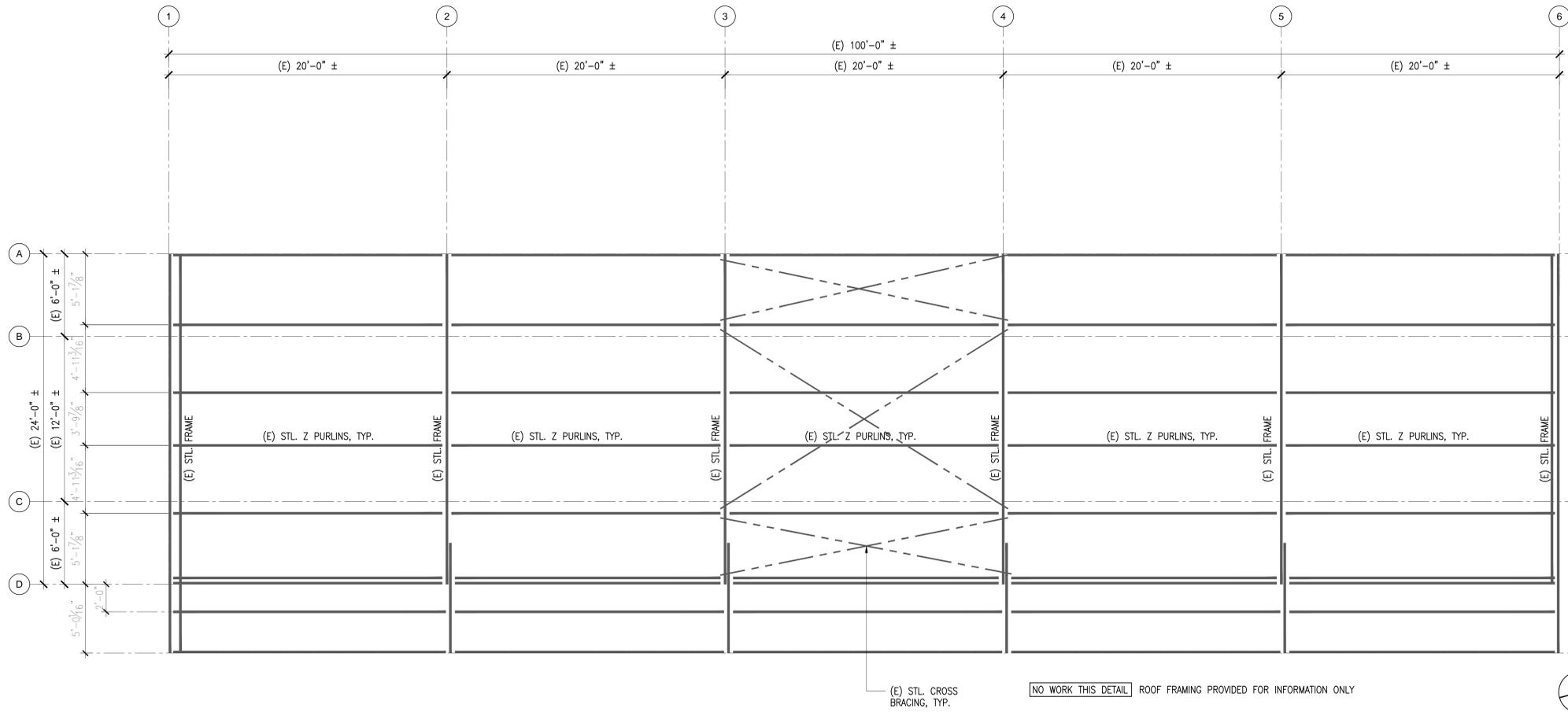
REV.	DESCRIPTION	DATE
1	PLAN CHECK 1ST REVIEW	4/11/18

KEY PLAN

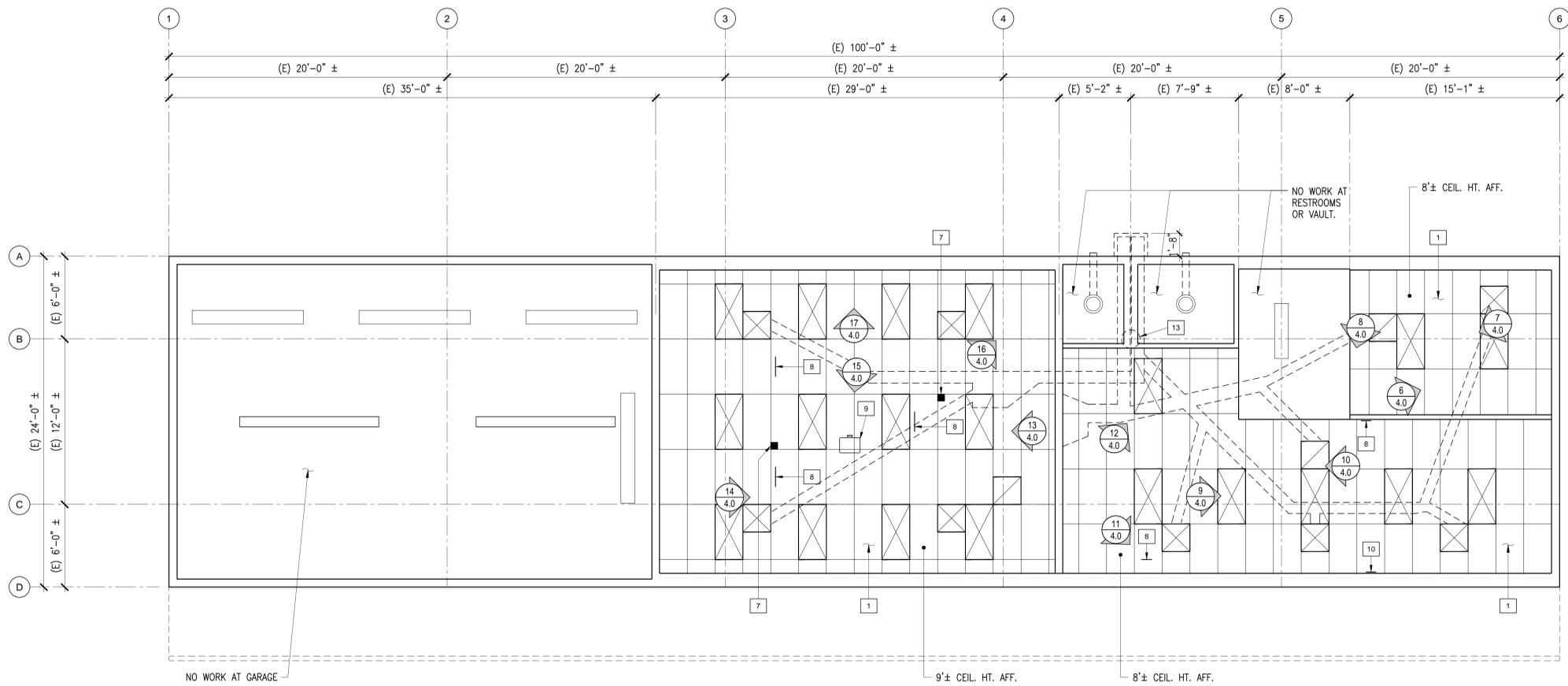
PROJECT NO.	17S020.01
PRINT DATE	-
DRAWN BY	-
CHECKED BY	D.P

SHEET TITLE
FLOOR PLAN

SHEET NUMBER
2.1
 SHEET NO. OF XXX



ROOF FRAMING PLAN 1/4"=1'-0" 2



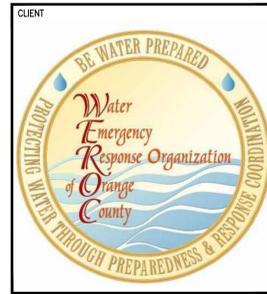
KEYNOTES:

- 1 REMOVE AND REPLACE SUSPENDED CEILING AND INSULATION. (E) LIGHTS AND HVAC REGISTERS TO REMAIN SUPPORT AND BRACE CEILING LIGHTS, REGISTERS AND EQUIPMENT PER SHEET 3.0. REUSE (E) INSULATION.
- 2 (E) WALL MOUNTED WHITE BOARDS TO REMAIN PROTECT IN PLACE
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- 12 PROVIDE PARTITION BRACING AT 8'-0" O.C. MAX. PER 15/S3.0 TO 18/S3.0
- 13 PROVIDE COIL STRAP BRACING TO (E) CEILING JOIST FOR EXISTING ± 6 GAL. WATER HEATER. PROVIDE STRAP IN 4 DIRECTIONS MIN. W/ #10 SCREWS TO HEATER AND FRAMING, TYP.

LEGEND:

INDICATES PHOTOS ON SHEET 4.0

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



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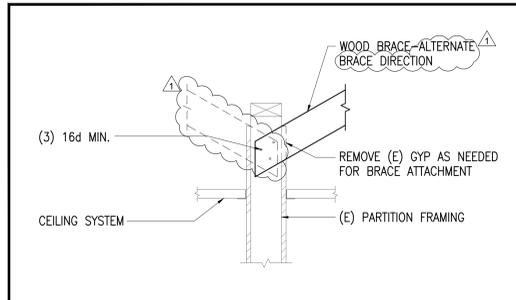
REV.	DESCRIPTION	DATE
1	PLAN CHECK 1ST REVIEW	4/11/18

KEY PLAN

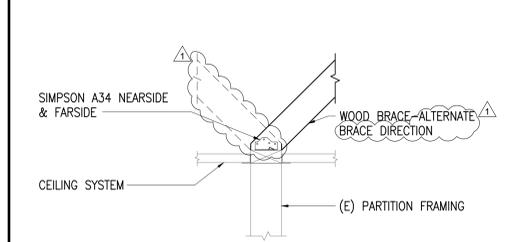
PROJECT NO. 175020.01
 PRINT DATE
 DRAWN BY
 CHECKED BY D.P.

SHEET TITLE
REFLECTED CEILING & ROOF FRAMING PLANS

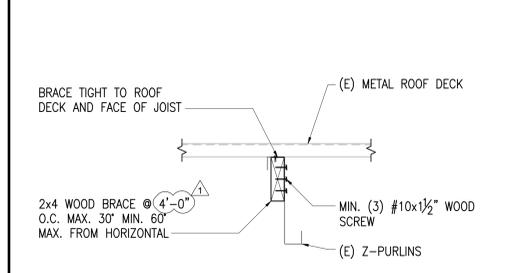
SHEET NUMBER
2.2
 SHEET NO. OF XXX



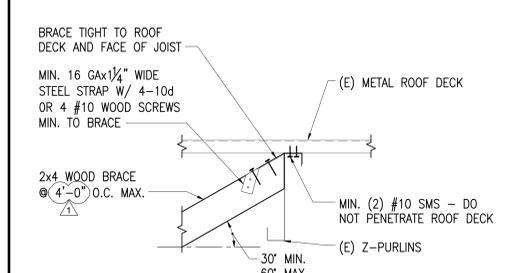
BRACE CONNECTION @ EXTENDED PARTITION 1 1/2" = 1'-0" 18



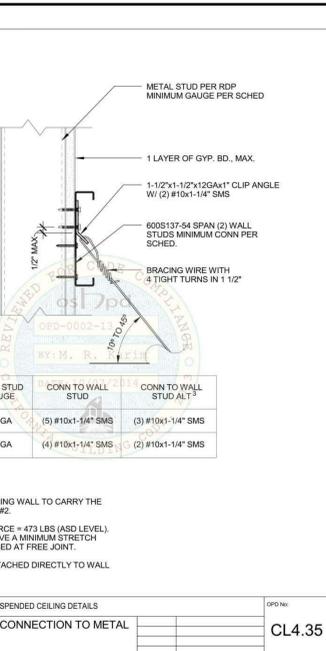
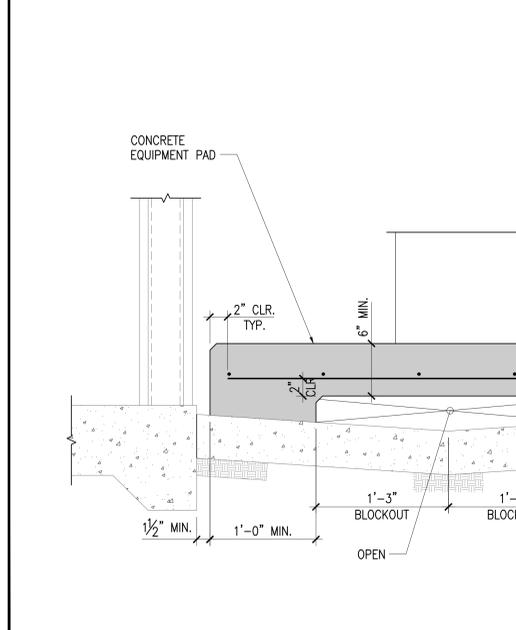
BRACE CONNECTION @ LOW PARTITION 1 1/2" = 1'-0" 17



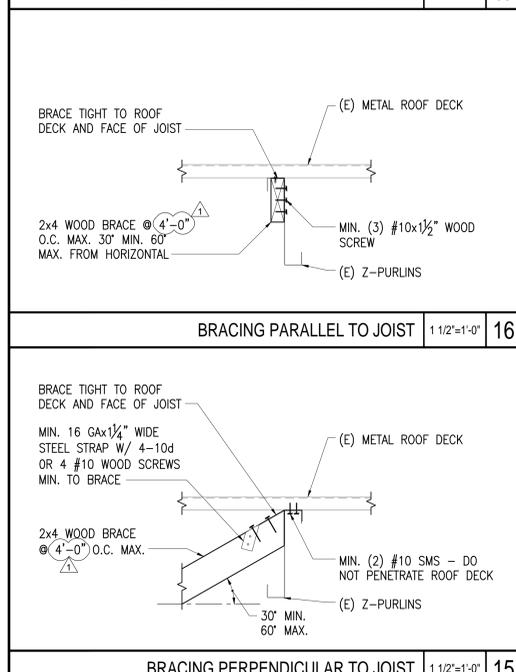
BRACING PARALLEL TO JOIST 1 1/2" = 1'-0" 16



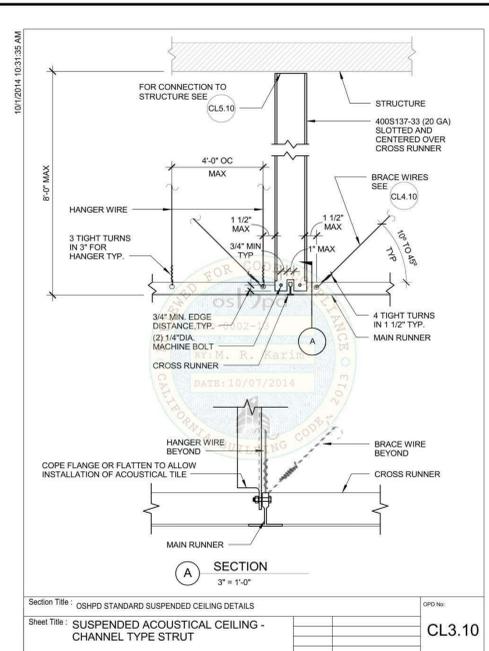
BRACING PERPENDICULAR TO JOIST 1 1/2" = 1'-0" 15



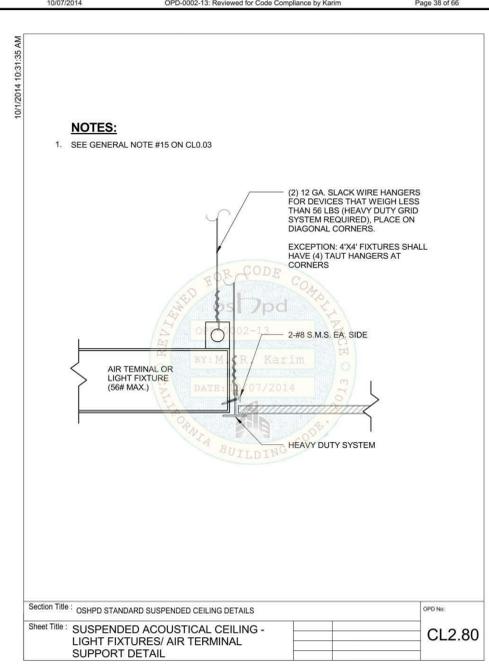
CL4.35



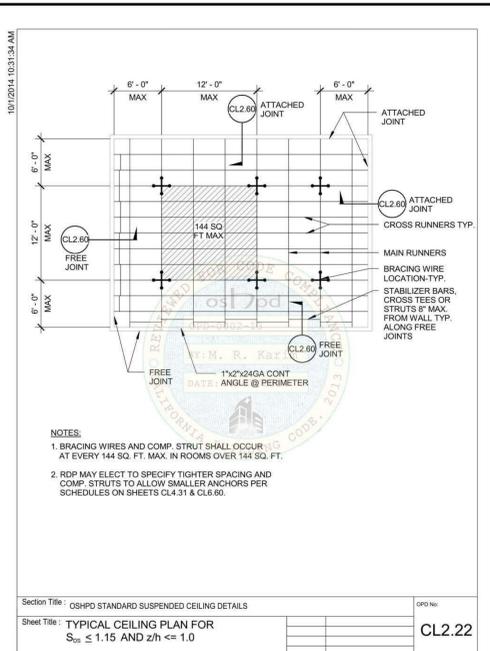
CL4.25



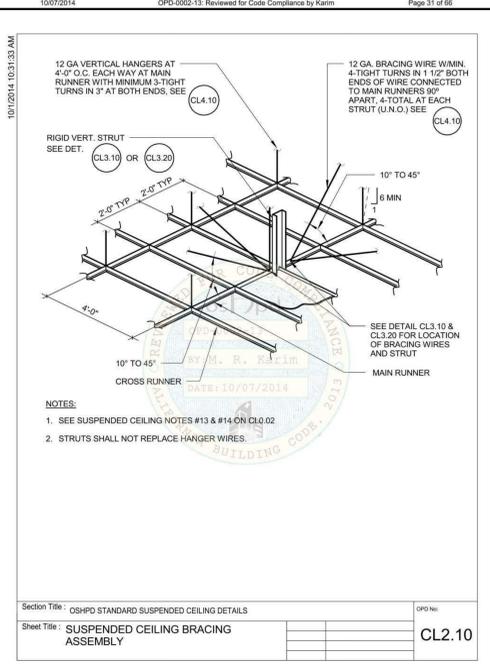
CL3.10



CL2.80



CL2.22



CL2.10

SHEET METAL SCREW (SMS) ALLOWABLE STRENGTHS (CONTINUED)

TABLE 3 - NON-PRYING CONDITION

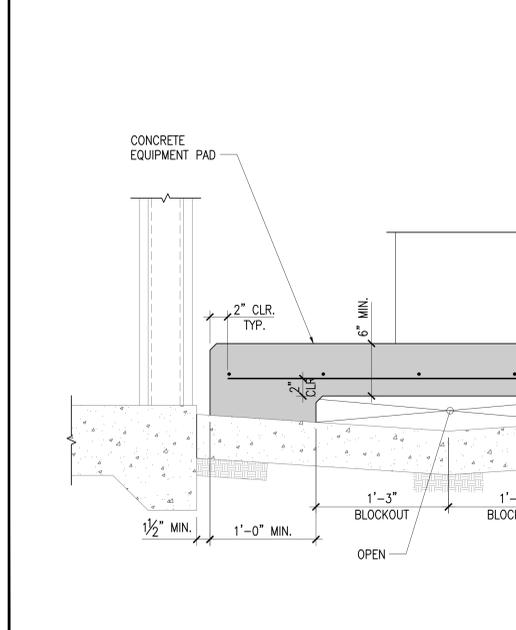
F _y (KSI)	MIL (STEEL GA)	FASTENER SIZE									
		NO. 14		NO. 12		NO. 10		NO. 8		NO. 6	
250	250	250	250	250	250	250	250	250	250	250	250
50	97 (12)	166	275	130	205	100	159	-	-	-	-
	54 (16)	166	281	130	205	100	159	80	118	-	-
	43 (18)	166	144	130	124	100	109	80	94	50	79
	33 (20)	-	-	-	-	70	84	50	72	40	61

TABLE 4 - PRYING CONDITION (SEE DETAILS BELOW - STRUT CAN BE HORIZONTAL OR VERTICAL)

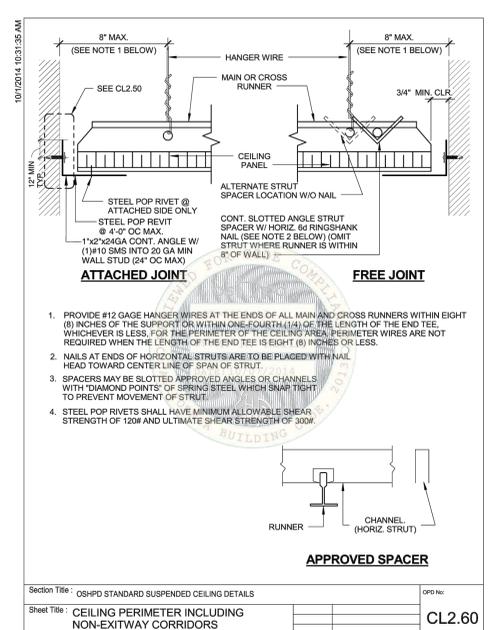
SHEET METAL SCREW ALLOWABLE STRENGTHS FOR STEEL TO STEEL CONNECTIONS WITH ONE OR TWO LAYERS OF 5/8" GYP BOARD BETWEEN STEEL SURFACES AND MAXIMUM PRYING MOMENT ARM OF 1.58"

F _y (KSI)	MIL (STEEL GA)	FASTENER SIZE									
		NO. 14		NO. 12		NO. 10		NO. 8		NO. 6	
250	250	250	250	250	250	250	250	250	250	250	250
50	97 (12)	166	275	130	205	100	159	-	-	-	-
	54 (16)	166	281	130	205	100	159	80	118	-	-
	43 (18)	166	144	130	124	100	109	20	94	10	79
	33 (20)	-	-	-	-	15	84	15	72	10	61

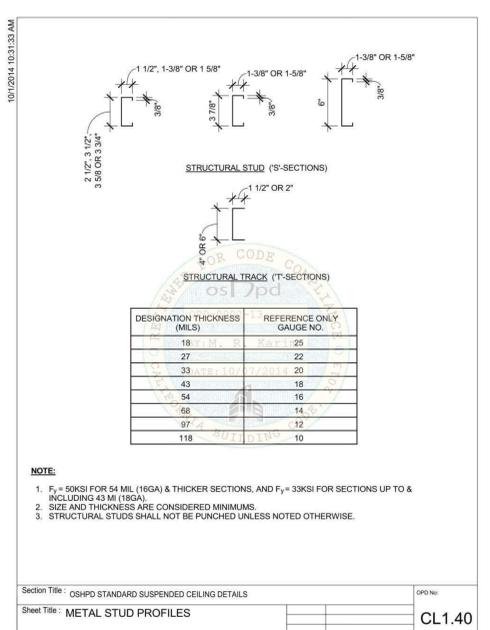
CL1.32



SECTION AT MECHANICAL UNIT 1 1/2" = 1'-0" 14



CL2.60



CL1.40

SHEET METAL SCREW (SMS) ALLOWABLE STRENGTHS

TABLE 1 - SHEET METAL SCREW ALLOWABLE STRENGTHS FOR STEEL TO STEEL CONNECTIONS.

F _y (KSI)	MIL (STEEL GA)	FASTENER SIZE									
		NO. 14		NO. 12		NO. 10		NO. 8		NO. 6	
250	250	250	250	250	250	250	250	250	250	250	250
50	97 (12)	704	275	525	205	-	-	-	-	-	-
	68 (14)	704	275	525	205	405	159	-	-	-	-
	54 (16)	613	261	525	205	405	159	303	118	-	-
	43 (18)	302	144	280	124	263	109	244	94	165	79
	33 (20)	-	-	-	-	177	84	164	72	151	61

TABLE 2 - SHEET METAL SCREW ALLOWABLE STRENGTHS FOR STEEL TO STEEL CONNECTIONS WITH ONE LAYER OF 5/8" GYP BOARD BETWEEN STEEL SURFACES.

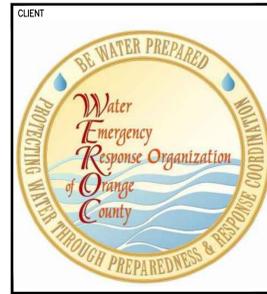
F _y (KSI)	MIL (STEEL GA)	FASTENER SIZE									
		NO. 14		NO. 12		NO. 10		NO. 8		NO. 6	
250	250	250	250	250	250	250	250	250	250	250	250
50	97 (12)	226	275	180	205	-	-	-	-	-	-
	68 (14)	226	275	180	205	140	159	-	-	-	-
	54 (16)	226	261	180	205	140	159	120	118	-	-
	43 (18)	226	144	180	124	140	109	120	94	60	79
	33 (20)	-	-	-	-	100	84	80	72	60	61

CL1.31

SHEET METAL SCREW (SMS) GENERAL NOTES

- THE ALLOWABLE STRENGTHS ARE BASED UPON THE AISI S100-07/52-10 AND ARE LIMITED BY ACTUAL TESTED STRENGTH OF THE SCREWS IN TENSION AND SHEAR.
- THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE AVERAGE TESTED TENSILE AND SHEAR STRENGTHS TABULATED FROM ICC ESR'S 1976, 2196, 1730, 1408, AND THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA). FASTENER TYPES AND SIZES APPLY TO NON-PROPRIETARY FASTENER TYPES AND SIZES, AND DOES NOT ENDORSE A SPECIFIC MANUFACTURER. WHERE PROPRIETARY FASTENERS ARE SPECIFIED, NO EXCEPTIONS ARE TAKEN TO THE USE OF MANUFACTURER SPECIFIC VALUES THAT ARE BASED UPON THE AISI S100-07/52-10, SECTION EA. ALL SCREW FASTENERS SHALL SATISFY ICC-ES AC118- ACCEPTANCE CRITERIA FOR SELF-TAPPING SCREW FASTENERS.
- TABLE 1 REPRESENTS ALLOWABLE TENSION AND SHEAR STRENGTHS FOR NON-PROPRIETARY SHEET METAL SCREWS FOR STEEL TO STEEL CONNECTIONS.
- TABLES 2 AND 3 REPRESENT ALLOWABLE TENSION AND SHEAR STRENGTHS THAT INCORPORATE THE EFFECTS OF EITHER ONE (1) OR TWO (2) LAYERS OF 5/8" GYPSUM BOARD BETWEEN FASTENER HEAD AND CONNECTING STEEL MATERIAL.
- IN ORDER TO USE THE VALUES IN TABLES 1, 2 AND 3, THE ATTACHMENTS SHALL BE DETAIL WITH CONTINUOUS STRAPS ALONG THE FLANGES OR WITH BACKING BARS.
- PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHOULD NOT BE LESS THAN THREE (3) EXPOSED THREADS.
- STEEL THICKNESSES JOINED ARE ASSUMED TO BE THE SAME. IF DISSIMILAR THICKNESSES ARE BEING CONNECTED, THE VALUE FOR THE THINNER PART JOINED SHALL BE USED.
- THE MINIMUM SPACING BETWEEN CENTERS OF FASTENERS SHALL NOT BE LESS THAN 3 X FASTENER DIAMETER. THE MINIMUM EDGE DISTANCE FROM THE CENTER OF A FASTENER TO THE EDGE OF ANY PART SHALL NOT BE LESS THAN 1.5 X FASTENER DIAMETER, WHERE THE END DISTANCE IS PARALLEL TO THE FORCE ON THE FASTENER. THE MINIMUM SHEAR STRENGTH SHALL BE LIMITED BY SECTION EA.3.2 OF THE AISI S100-07/52-10.
- GALVANIZED METAL STUDS, TRACK AND SHEET STEEL SHALL CONFORM TO ASTM A653-09a MATERIAL, OR OTHER EQUIVALENT ASTM LISTED MATERIALS IN THE AISI S100-07/52-10, SECTION A2.1 WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MIL (18 GA) AND LIGHTER, AND MINIMUM YIELD STRENGTH OF 50 KSI FOR 54 MIL (16 GA) AND HEAVIER.
- WHERE VALUES ARE NOT GIVEN, SUCH COMBINATIONS OF SCREW SIZES & MATERIAL THICKNESSES ARE NOT RECOMMENDED.
- IF THE ATTACHMENT DETAILS RESULT IN PRYING WITH A MOMENT ARM NOT EXCEEDING 1.58", THE VALUES IN TABLE 4 MAY BE USED. IF THE ATTACHMENT DETAILS RESULT IN PRYING WITH A MOMENT ARM THAT EXCEEDS 1.58", THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE OF THE PROJECT SHALL DETERMINE THE ALLOWABLE VALUES AND SUBMIT SUBSTITUTION FOR THEM TO OSHPD FOR REVIEW.
- INTERACTION OF SHEAR AND TENSION SHALL BE BASED ON $f_{tll} + v_{ll} \leq 1.0$.
- REFER TO NOTE 6A ON CL0.00 FOR ADDITIONAL SHEET METAL SCREW REQUIREMENTS.

CL1.30



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WATER EMERGENCY RESPONSE ORGANIZATION OF ORANGE COUNTY SOUTH EMERGENCY OPERATIONS CENTER

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 26081 VIA PERA MISSION VIEJO, CA 92691



1 PETERS CANYON ROAD, SUITE 130 IRVINE, CA 92606 TEL: 949-387-8500, FAX: 949-387-0800

DATE SIGNED: 02-27-2018

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KEY PLAN

PROJECT NO.	175020.01
PRINT DATE	-
DRAWN BY	-
CHECKED BY	D.P

SHEET TITLE
DETAILS

SHEET NUMBER
3.0

SHEET NO. OF XXX



CEILING PROJECTOR MOUNT N.T.S. 20



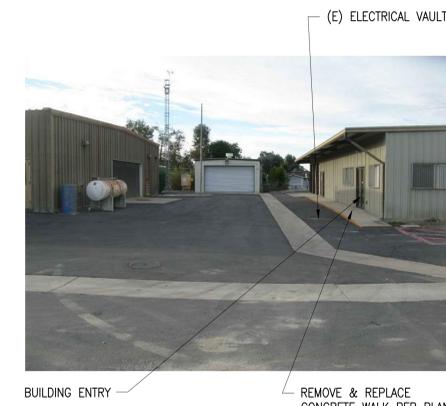
SOUTHWEST CORNER OF ROOM N.T.S. 16



CEILING AT RESTROOMS N.T.S. 12



VAULT EDGE CONDITION N.T.S. 8



DRIVE AISLE N.T.S. 4



TYP. SPACE ABOVE CEILING N.T.S. 19



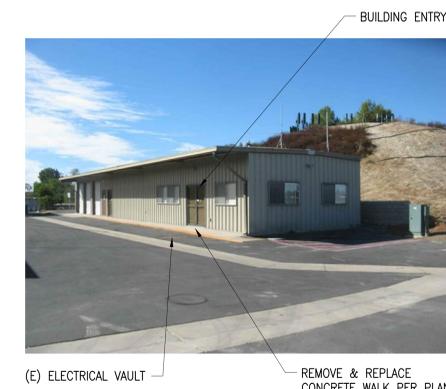
CEILING MOUNTED PROJECTOR N.T.S. 15



CEILING AT FRONT WALL N.T.S. 11



OFFICE CEILING N.T.S. 7



BUILDING OVERVIEW N.T.S. 3



TYP. SPACE ABOVE CEILING N.T.S. 18



EOC CEILING WEST N.T.S. 14



EAST END OF LOBBY OFFICE N.T.S. 10



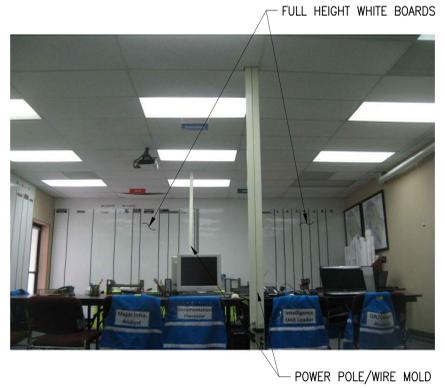
OFFICE CEILING N.T.S. 6



PARKING AREA OVERVIEW N.T.S. 2



WALL MOUNTED PROJECTOR SCREEN N.T.S. 17



EOC CEILING EAST N.T.S. 13



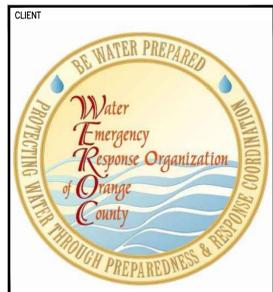
WEST END OF LOBBY OFFICE N.T.S. 9



BUILDING ENTRY N.T.S. 5



PARKING AREA OVERVIEW N.T.S. 1



PROJECT NAME
**WATER EMERGENCY
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CHECKED BY	D.P

SHEET TITLE

PHOTOS

SHEET NUMBER

4.0

SHEET NO. OF XXX