APPLICATION FOR OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM)

OFFICE USE ONLY
APPLICATION #: OPM-0056-13

OSHPD Preapproval of Manufacturer's Certification (OPM)

Type: ☒ New ☐ Renewal ☐ Update to Pre-CBC 2013 OPA Number: _____

Manufacturer Information

Manufacturer: TRUMPF Medical Systems, Inc.

Manufacturer's Technical Representative: Jeff Saunders

Mailing Address: 1046 LeGrand Boulevard, Charleston, SC 29492

Telephone: 843-534-0606 Email: Jeffrey.Saunders@us.trumpf.com

Product Information

Product Name: TRULIGHT 1000

Product Type: Wall Mounted Examination Light

Product Model Number: None

General Description: Wall Mounted Examination Light

Applicant Information

Applicant Company Name: TRUMPF Medical Systems, Inc.

Contact Person: Jeff Saunders

Mailing Address: 1046 LeGrand Boulevard, Charleston, SC 29492

Telephone: 843-534-0606 Email: Jeffrey.Saunders@us.trumpf.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2013.

Signature of Applicant: _____ Date: 9/30/2013

Title: Manager, Customer Support Company Name: Trumpf Medical Systems

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

Registered Design Professional Preparing Engineering Recommendations

Company Name: CYS Structural Engineers, Inc.

Name: Dieter T. Siebald California License Number: SE #4346

Mailing Address: 2495 Natomas Park Drive, Suite 650, Sacramento, CA 95833

Telephone: 916-920-2020 Email: dieters@cyseng.com

OSHPD Special Seismic Certification Preapproval (OSP)

☐ Special Seismic Certification is preapproved under OSP-
(Separate application for OSP is required)

☒ Special Seismic Certification is no preapproved

Certification Method(s)

☐ Testing in accordance with: ☐ ICC-ES AC156 ☐ FM 1950-10

☐ Other* (Please Specify):

*Use of criteria other than those adopted by the California Building Standards Code, 2013 (CBSC 2013) for component supports and attachments are not permitted. For distribution system, interior partition wall, and suspended ceiling seismic bracings, test criteria other than those adopted in the CBSC 2013 may be used when approved by OSHPD prior to testing.

☒ Analysis

☐ Experience Data

☐ Combination of Testing, Analysis, and/or Experience Data (Please Specify):

List of Attachments Supporting the Manufacturer's Certification

☐ Test Report ☒ Drawings ☒ Calculations ☐ Manufacturer's Catalog

☐ Other(s) (Please Specify):

OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2013 ONLY

Signature: Date: February 12, 2014

Print Name: Jeffrey Y. Kikumoto

Title: Senior Structural Engineer

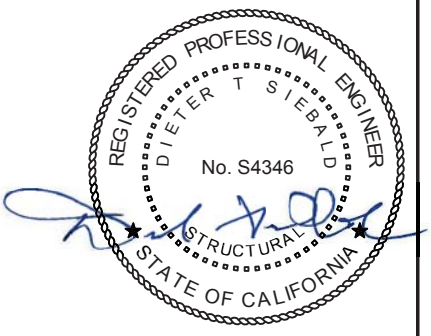
Condition of Approval (if applicable):

TRUMPF

TRULIGHT 1000
WALL MOUNTED EQUIPMENT SUPPORT & ATTACHMENT
TABLE OF CONTENTS
OPM-0056-13

NOTES:

1. THESE DRAWINGS ARE PREPARED FOR TRUMPF MEDICAL SYSTEMS, INC., CHARLESTON, SOUTH CAROLINA.
2. THE CONTRACTOR AND INSPECTOR OF RECORD SHALL OBTAIN A COPY OF THIS PRE-APPROVAL FROM THE OSHPD PRE-APPROVAL PROGRAMS WEBSITE.
3. THIS PRE-APPROVAL COVERS THE SUPPORTS & ATTACHEMENTS OF THE UNIT TO THE SUPPORTING STRUCTURE. THE UNIT AND WALL BEARING HARDWARE ARE SUPPLIED BY TRUMPF. ALL THREAD RODS, MOUNTING PLATE AND REQUIRED WALL SUPPORT ELEMENTS SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR.



SHEET TITLE: TABLE OF CONTENTS

CYS STRUCTURAL ENGINEERS, INC.
2495 NATOMAS PARK DRIVE, SUITE 650
SACRAMENTO, CA 95833
TEL (916) 920-2020
www.cyseng.com

Job No:	13084
Date:	2-11-2014
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TRUMPF

GENERAL NOTES:

1. THIS OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2013. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2013.
2. IT IS THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD FOR A SITE SPECIFIC PROJECT TO VERIFY:
   - A. THE ADEQUACY OF THE NEW OR EXISTING STRUCTURE TO RESIST THE FORCES AND WEIGHT SPECIFIED FOR EACH EQUIPMENT IN ADDITION TO ALL OTHER LOADS. PROVIDE AND DESIGN SUPPLEMENTARY MEMBERS AS REQUIRED.
   - B. THAT THE FLOOR ANCHORS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPENINGS.
   - C. THAT THE FLOOR ANCHORS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY NEW OR EXISTING ANCHORS. THE SPACING SHOWN IN THE TEST LOADS TABLE ON PAGE 3 IS THE REQUIRED MINIMUM SPACING OF THE ½" DIAMETER ANCHOR BOLTS. THE REQUIRED SPACING FROM ANCHORS OF OTHER DIAMETERS AND EMBEDMENTS MAY VARY AND SHALL BE EVALUATED BY THE SEOR.
   - D. THAT THE INSTALLATION IS IN CONFORMANCE WITH THE CBC 2013 AND WITH THE DETAILS SHOWN IN THIS PRE-APPROVAL.
   - E. THAT THE ACTUAL EQUIPMENT'S WEIGHT, CENTER OF GRAVITY (CG) LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS, AND THE MATERIAL AND GAUGE OF THE EQUIPMENT WHERE ATTACHMENTS ARE MADE, AGREE WITH THE INFORMATION SHOWN ON THE PRE-APPROVAL DOCUMENTS.
3. A. EXPANSION ANCHORS INSTALLED IN NORMAL WEIGHT OR SAND-LIGHTWEIGHT CONCRETE SHALL BE CARBON STEEL HILTI KB-TZ EXPANSION ANCHORS COMPLYING WITH ESR-1917 REISSUED MAY 1, 2013.
   - B. INSTALLATION: INSTALL THE EXPANSION ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN THE ICC EVALUATION REPORT FOR THE SPECIFIC ANCHOR AND THE PARAMETERS GIVEN IN THE TABLE ON PAGE 3.
   - C. TESTING:
     - JOB TESTING: FOR VERIFYING SATISFACTORY INSTALLATION WORKMANSHIP, PERFORM JOB SITE TESTING IN ACCORDANCE WITH THE TENSION LOAD TABLE PROVIDED IN THIS DOCUMENT. TEST 50% OF THE INSTALLED ANCHORS. THE TEST LOAD MAY BE APPLIED BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TENSION IN THE ANCHOR SUCH AS DIRECT PULL WITH A HYDRAULIC JACK OR CALIBRATED SPRING LOADING DEVICES OR CALIBRATED TORQUE WRENCH METHOD. ALL TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE INSPECTOR OF RECORD. IF ANY ANCHOR FAILS THE TEST, TEST ALL ANCHORS. THE TEST SHALL BE PERFORMED 24 HOURS OR MORE AFTER INSTALLATION. TESTING MAY BE DONE PRIOR TO EQUIPMENT INSTALLATION. ALSO REFER TO CBC 1913A.7 "FIELD TESTS FOR POST-INSTALLED ANCHORS IN CONCRETE".
     - FAILURE/ACCEPTANCE CRITERIA: THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
       - HYDRAULIC RAM METHOD: APPLY AND HOLD TEST LOAD FOR A MINIMUM OF 15 SECONDS. THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD WHERE WASHERS ARE USED. FOR WEDGE TYPE ANCHORS, SUCH AS HILTI KB-TZ, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE.
       - TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS: WEDGE TYPE: ONE-HALF (½) TURN OF THE NUT.

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STRUCTURAL
STATE OF CALIFORNIA

SHEET TITLE: GENERAL NOTES

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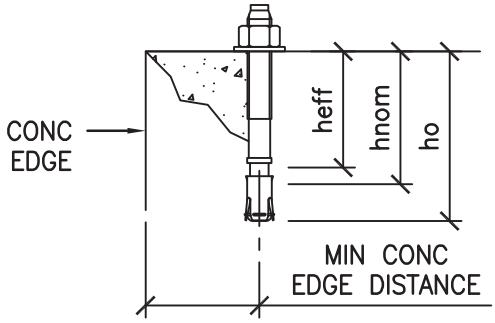
GENERAL NOTES CONTINUED:

3D. TEST VALUES: APPLY TEST LOADS TO ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE, SEE TABLE BLW.

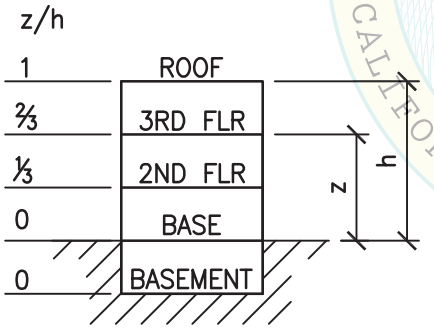


MECHANICAL ANCHOR

ANCHOR DIA (INCH) da	INSTALLATION EMBED (INCH) hnom	EFFECTIVE EMBED (INCH) hef	HOLE DEPTH (INCH) ho	MIN CONC THICKNESS (INCH) h	MIN CONC EDGE DISTANCE (INCH)	MIN AB SPACING (INCH)	TEST LOAD		CONDITION OF ANCHORAGE
							TENSION LOAD (LBS)	TORQUE (FT–LBS)	
3/8	2 5/16	2	2 5/8	4 *	9	4	–	25	CASE 1

* CONC THICKNESS MAY BE 3¼" AT CONC OVER MTL DECK. SEE TABLE 6 OF ESR–1917.

4. A SINGLE CASE OF ANCHORAGE IS SPECIFIED AND PRESENTED IN THIS PRE–APPROVAL:



BLDG ELEV

CASE 1: ANCHORAGE DTLS LOCATED AT ANY LEVEL OF A BLDG (z/h<=1.0), IT IS ASSUMED THAT THE FLRS ARE BUILT OF A MIN 3¼" SAND–LWC OR NWC TOPPING OVER MTL DECK OR 4" NWC SLAB (f'_c = 3000 PSI, MIN).

5. THIS PRE–APPROVAL MAY BE USED AT ANY GEOGRAPHICAL LOCATION IN THE STATE OF CALIFORNIA. WHERE S_{DS} IS LESS THAN OR EQ TO 2.50.

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SHEET TITLE: GENERAL NOTES (CONTINUED)

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TRUMPF

ABBREVIATIONS:

@	AT
AB	ANCHOR BOLT
ABV	ABOVE
ALT	ALTERNATE
ASD	ALLOWABLE STRENGTH DESIGN
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
BLDG	BUILDING
BLKG	BLKG
BLW	BELOW
BOTT	BOTTOM
BRG	BEARING
BTW	BETWEEN
CBC	CALIFORNIA BUILDING CODE
CG	CENTER OF GRAVITY
CLR	CLEAR
CLSE	CALIFORNIA LICENSED STRUCTURAL ENGINEER
℄	CENTERLINE
CONC	CONCRETE
CONN	CONNECTION
DBL	DOUBLE
DTL(S)	DETAIL(S)
DIA (ø)	DIAMETER
DWG	DRAWING
(E)	EXISTING CONDITION
EA	EACH
ELEV	ELEVATION
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE
FF	FINISH FLOOR
FLR	FLOOR
Fp	HORIZONTAL SEISMIC FORCE PER ASCE 7-10 SEISMIC FORCE REQUIREMENTS
FT (')	FOOT/FEET
F_{pv}	VERTICAL SEISMIC FORCE PER ASCE 7-10 SEISMIC FORCE REQUIREMENTS
F_y	SPECIFIED YIELD STRENGTH OF REINFORCING, PSI OR SPECIFIED MINIMUM YIELD STRESS OF STEEL, KSI
GA	GAUGE
GWB	GYPSUM WALLBOARD
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
ICC	INTERNATIONAL CODE COUNCIL
IN (")	INCH
KSI	KIPS PER SQUARE INCH
LBS	POUNDS
LRFD	LOAD & RESISTANCE FACTOR DESIGN
LWC	LIGHT WEIGHT CONCRETE
MAX	MAXIMUM
MFR	MANUFACTURER
MIN	MINIMUM
MTL	METAL
NWC	NORMAL WEIGHT CONCRETE
OPM	OSPHD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION
OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING & DEVELOPMENT
PG(S)	PAGE(S)
PL	PLATE
PSI	POUNDS PER SQUARE INCH
RDP	REGISTERED DESIGN PROFESSIONAL
REQ	REQUIRED
SAD	SEE ARCHITECTURAL DRAWINGS
SEOR	STRUCTURAL ENGINEER OF RECORD
SIM	SIMILAR
SLWC	SAND LIGHT WEIGHT CONCRETE
SMS	SHEET METAL SCREWS
STD	STANDARD
STL	STEEL
THRD	THREAD OR THREADED
TOC	TOP OF CONCRETE
TYP	TYPICAL
V	ANCHORAGE SHEAR REACTION DUE TO SEISMIC FORCE
VERT	VERTICAL
W_p	COMPONENT OPERATING WEIGHT
W/	WITH

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SHEET TITLE: ABBREVIATIONS

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TRUMPF

DESIGN CRITERIA

ANCHORAGE DESIGN FOR EXAM LIGHT IS PER 2013 CBC AT LRFD LEVEL FORCES.

W_p = 20 LBS
z/h = 1.0 UPPER FLRS ABV THE BASE
S_{DS} = 2.50
I_p = 1.5
a_p = 2.5
R_p = 2.5
MIN $Fp = 0.30\ S_{DS}\ Ip\ Wp = 1.125\ Wp$
MAX $Fp = 1.60\ S_{DS}\ Ip\ Wp = 6.000\ Wp$
$Fp = 0.4a_p\ S_{DS}\ Ip\ Wp\ (1+2\ z/h)/Rp = 4.5\ Wp = 90$ LBS
$F_{pv} = \pm 0.20\ S_{DS}\ Wp = \pm 0.50\ Wp = \pm 10$ LBS

ANCHORAGE DESIGN FOR WALL IS PER 2013 CBC AT LRFD LEVEL FORCES.

z/h = 1.0
S_{DS} = 2.50
I_p = 1.5
a_p = 1.0
R_p = 2.5
Ω_o = 2.50 FOR CONC ANCHORS ONLY
$Fp = 0.4a_p\ S_{DS}\ Ip\ Wp\ (1+2\ z/h)/Rp = 1.8\ Wp$
$F_{pv} = \pm 0.20\ S_{DS}\ Wp = \pm 0.50\ Wp$

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SHEET TITLE: DESIGN CRITERIA

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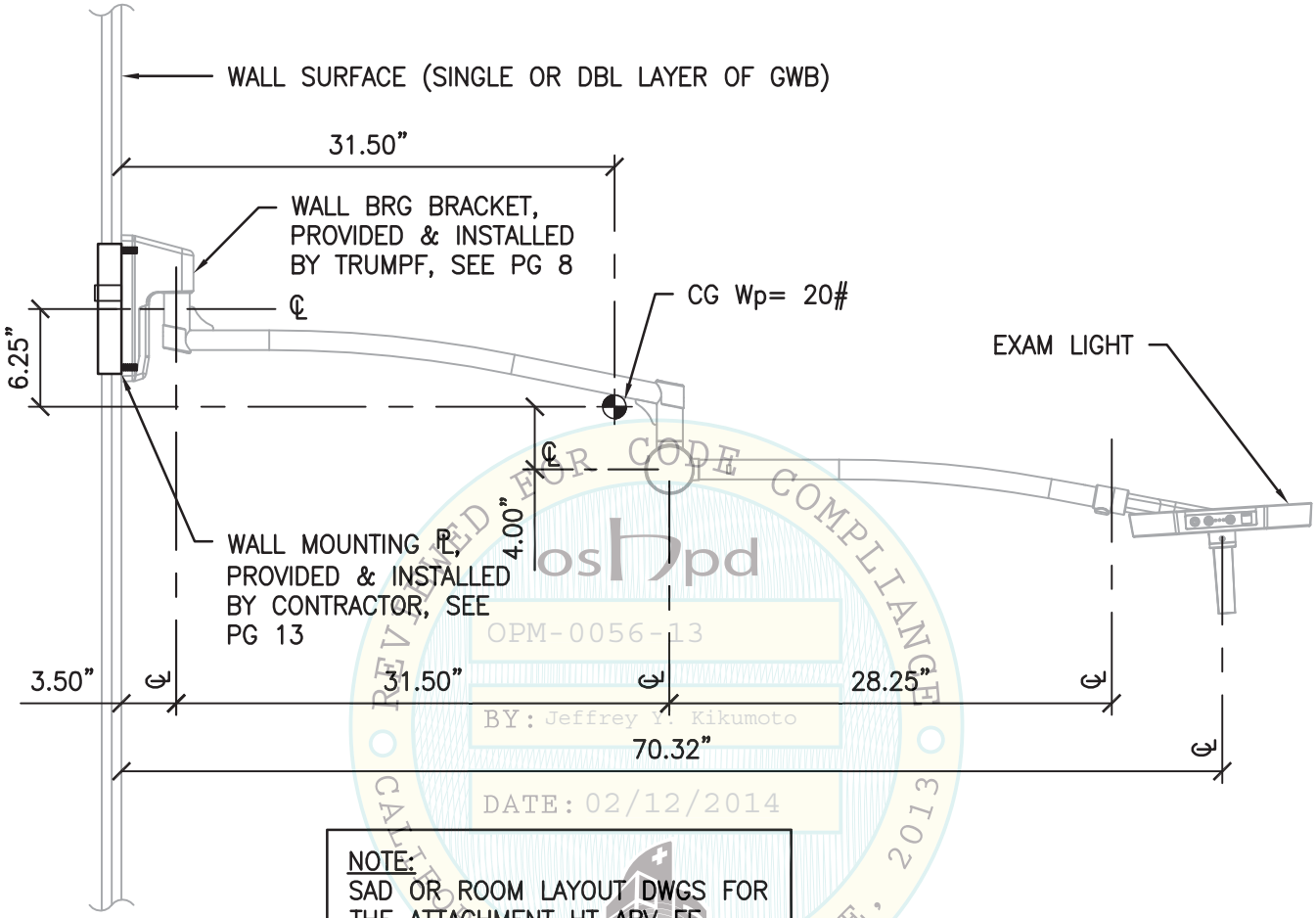
TRUMPF MEDICAL SYSTEMS
TRULIGHT 1000



NOTE:
SAD OR ROOM LAYOUT DWGS FOR THE ATTACHMENT HT ABV FF.

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SHEET TITLE: TRULIGHT 1000 ELEVATION

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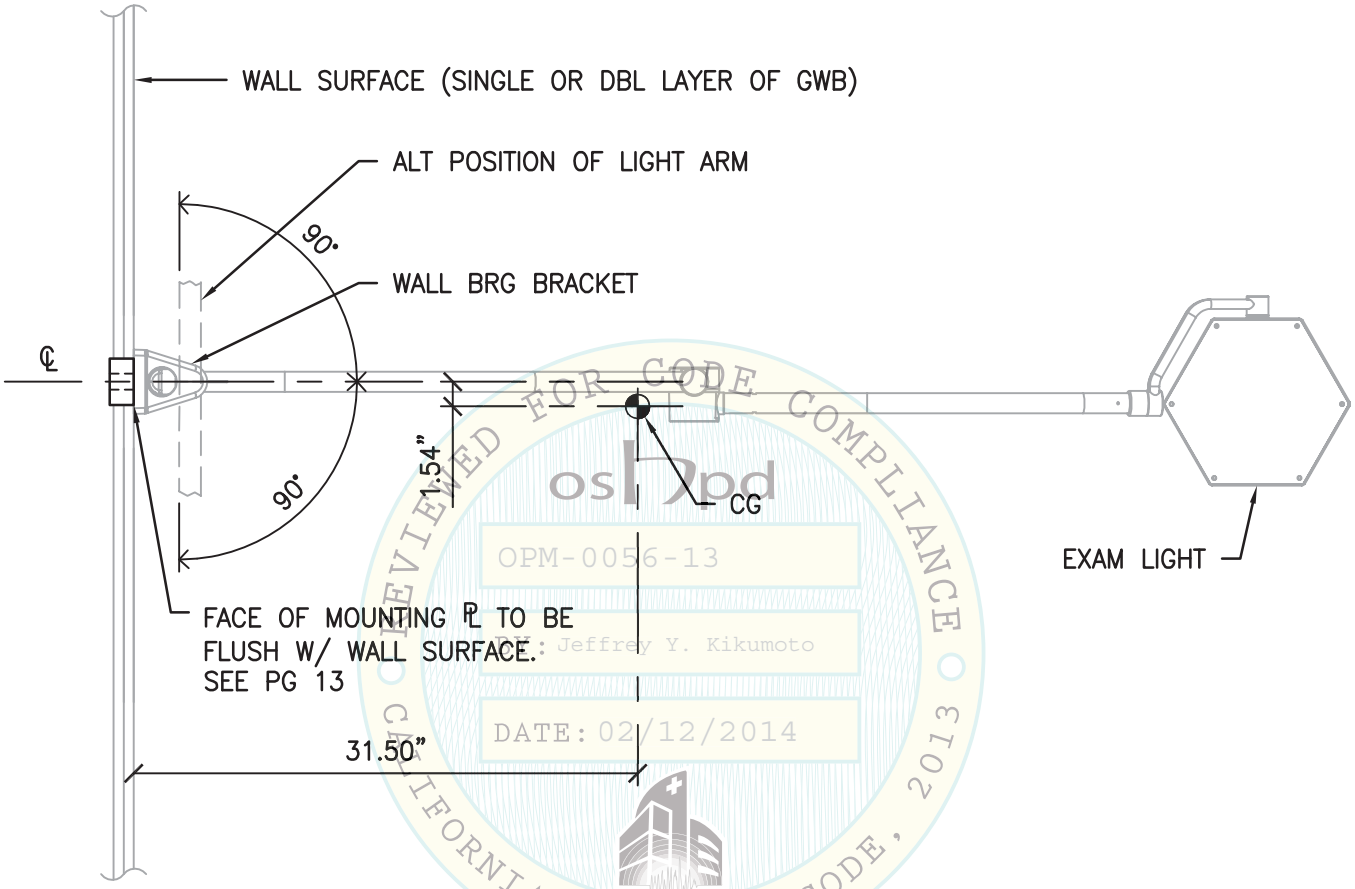
TRUMPF MEDICAL SYSTEMS
TRULIGHT 1000



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SHEET TITLE: TRULIGHT 1000 PLAN

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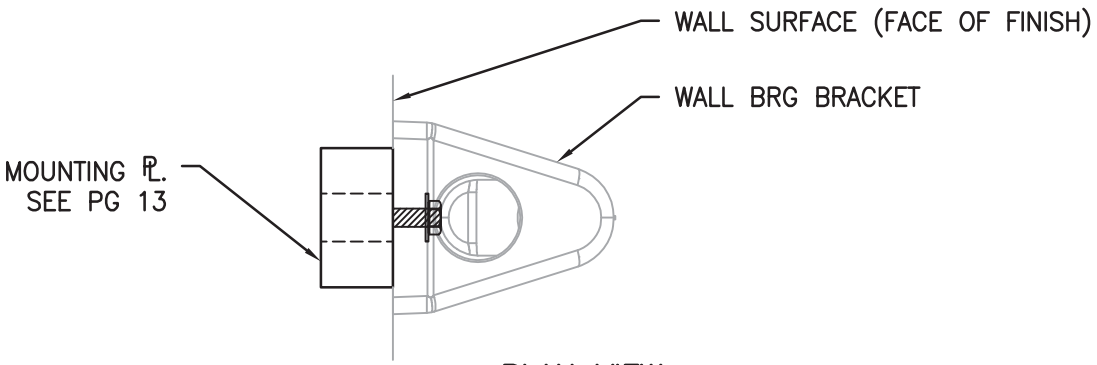
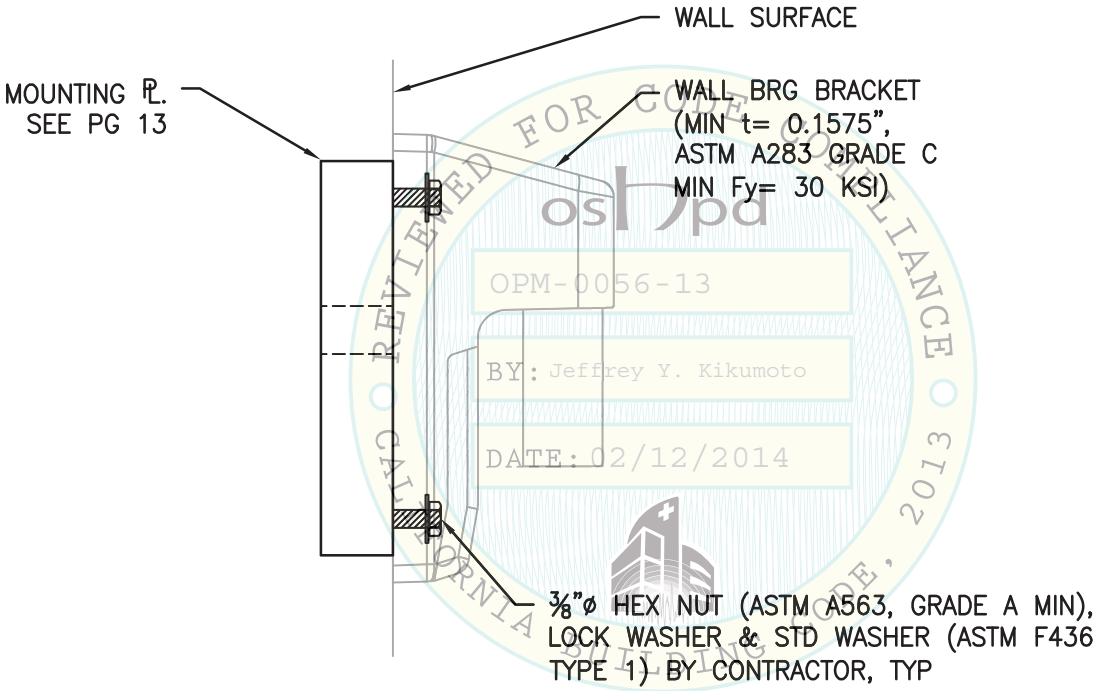


PLAN VIEW



SIDE VIEW

NOTE:
WALL BRG BRACKET IS SUPPLIED BY TRUMPF
AND MOUNTING PL IS SUPPLIED BY CONTRACTOR

REVIEWED FOR CODE COMPLIANCE
CALIFORNIA BUILDING CODE, 2013
OSHPD
OPM-0056-13
BY: Jeffrey Y. Kikumoto
DATE: 02/12/2014

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SHEET TITLE: TRULIGHT 1000 WALL BEARING BRACKET DETAIL

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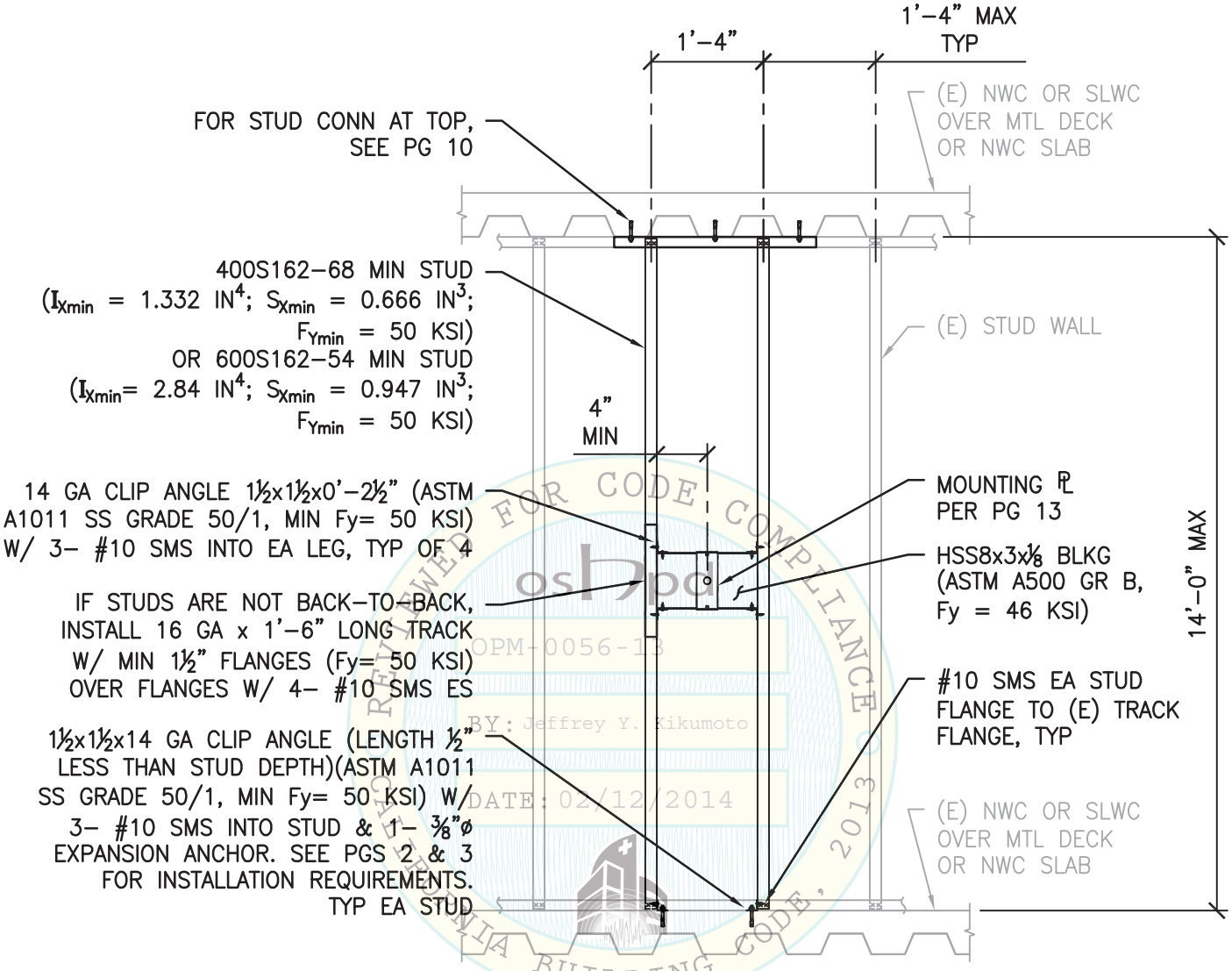
TRULIGHT 1000



NOTE:
THE WALL STUDS & CONNECTIONS TO SUPPORTING STRUCTURE HAVE BEEN DESIGNED FOR A MAX ALLOWABLE INTERSTORY DRIFT OF Dpl= (0.015)(14'x12"/')(1.5)= 3.78"

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SHEET TITLE: STUD WALL SUPPORT

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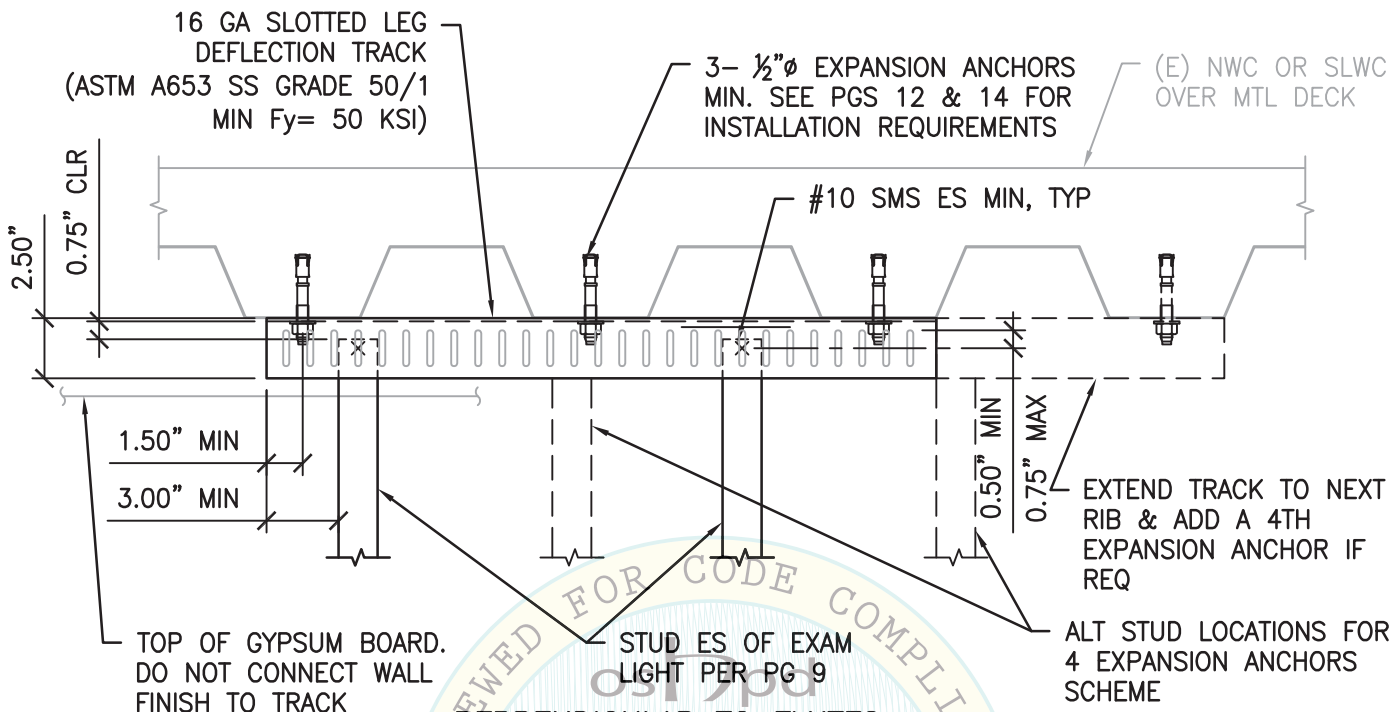
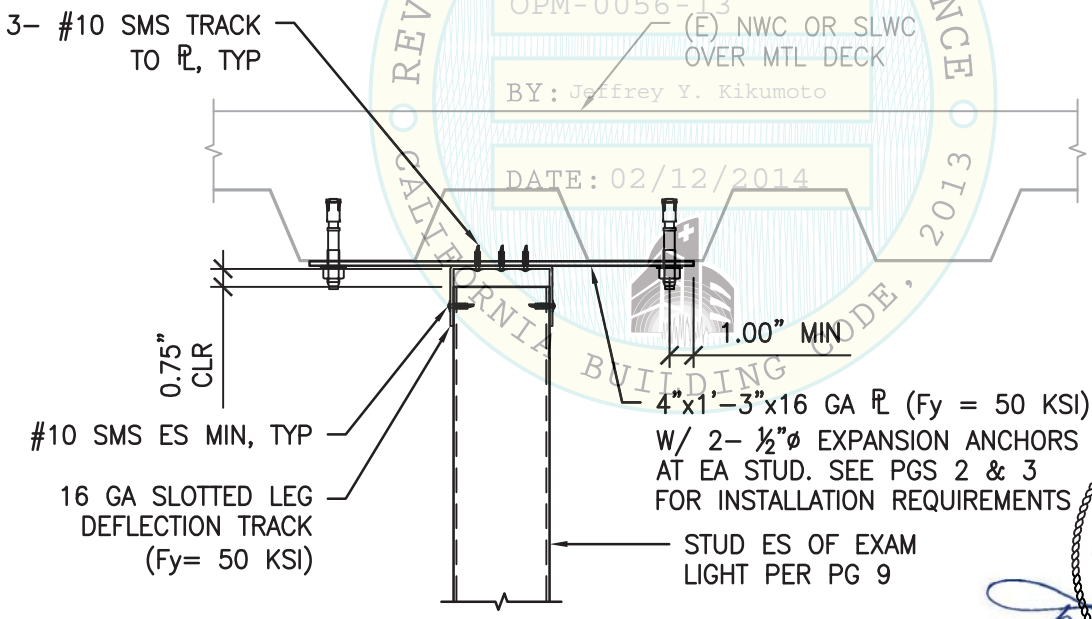
TRULIGHT 1000



PERPENDICULAR TO FLUTES



PARALLEL TO FLUTES

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SHEET TITLE: STUD CONNECTION AT TOP

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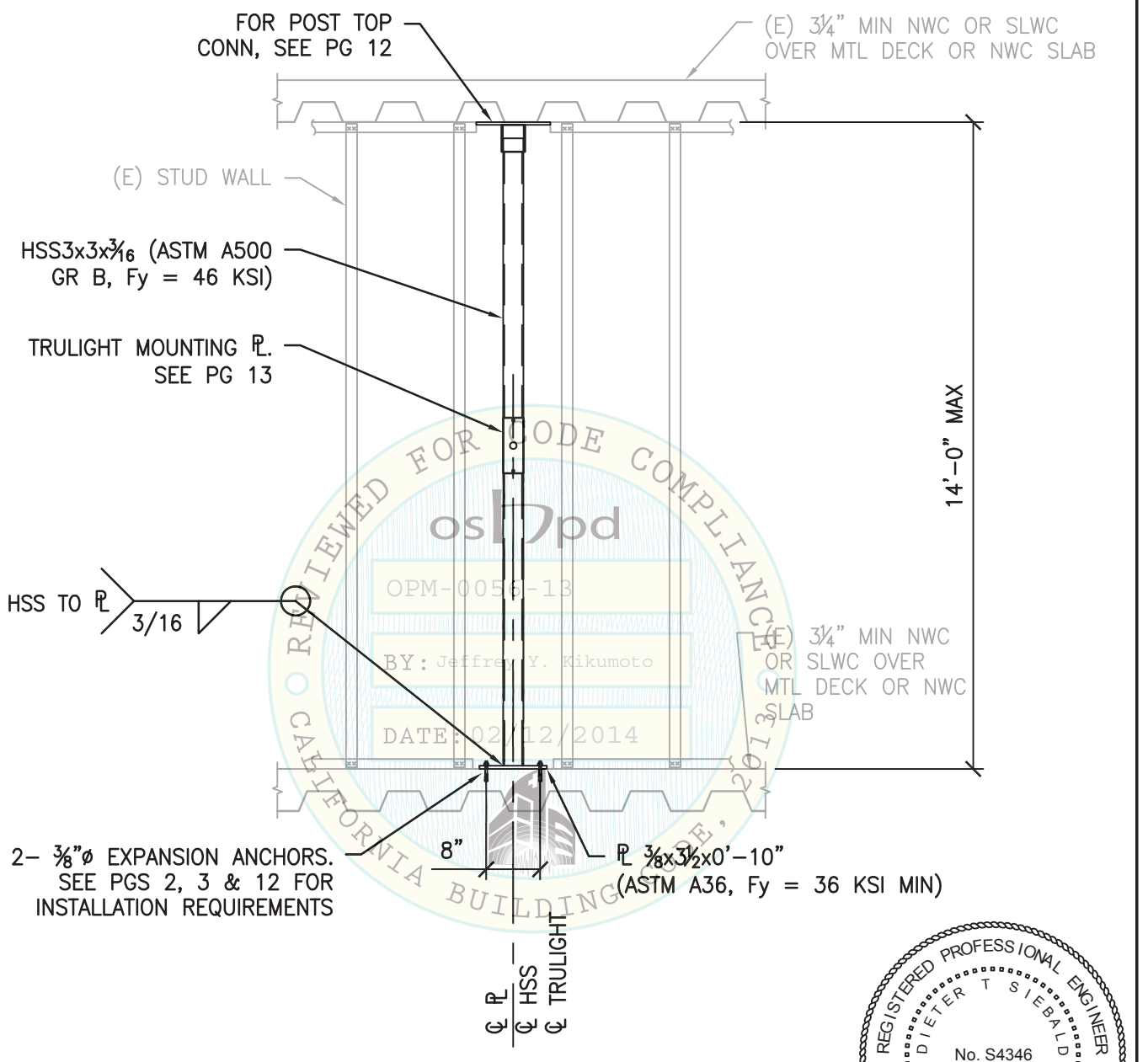
TRUMPF MEDICAL SYSTEMS
TRULIGHT 1000



NOTE:
THE HSS & CONNECTIONS TO SUPPORTING STRUCTURE HAS BEEN DESIGNED FOR A MAX ALLOWABLE INTERSTORY DRIFT OF Dpl= (0.015)(14'x12"/')(1.5)= 3.78"

REGISTERED PROFESSIONAL ENGINEER
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SHEET TITLE: TUBE STEEL POST SUPPORT

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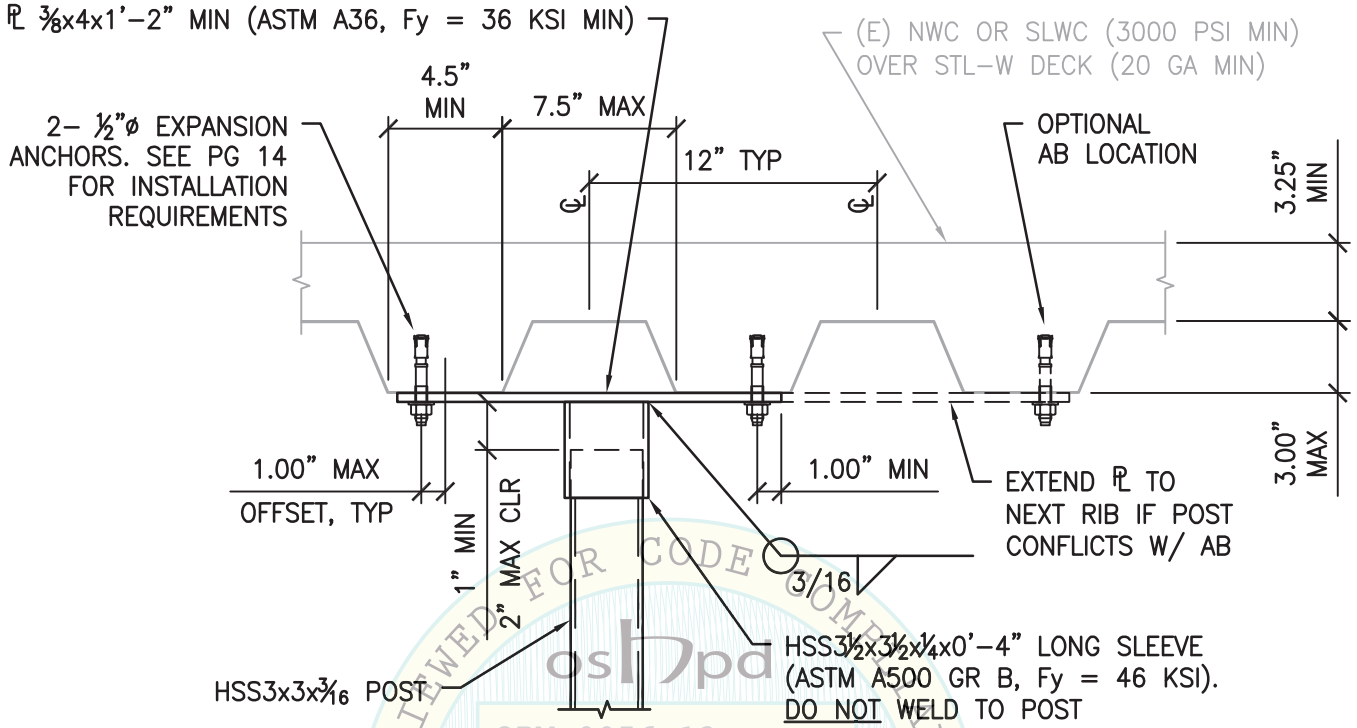
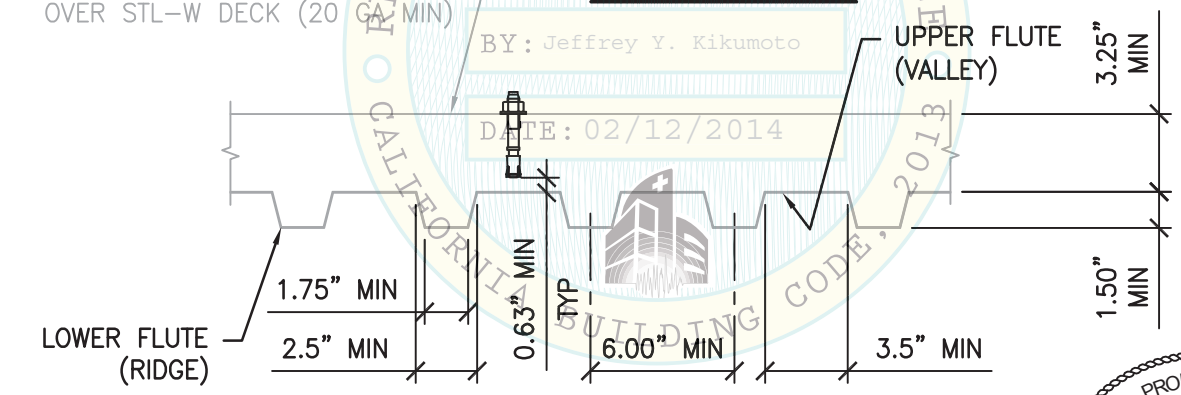
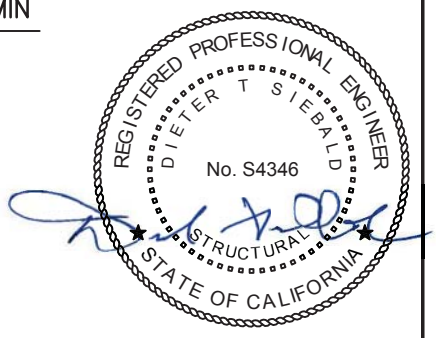


TOP CONNECTION



BOTT CONN REMAINDER NOT SHOWN FOR CLARITY

BOTTOM CONNECTION



SHEET TITLE: TUBE STEEL POST TOP & BOTTOM CONNECTIONS

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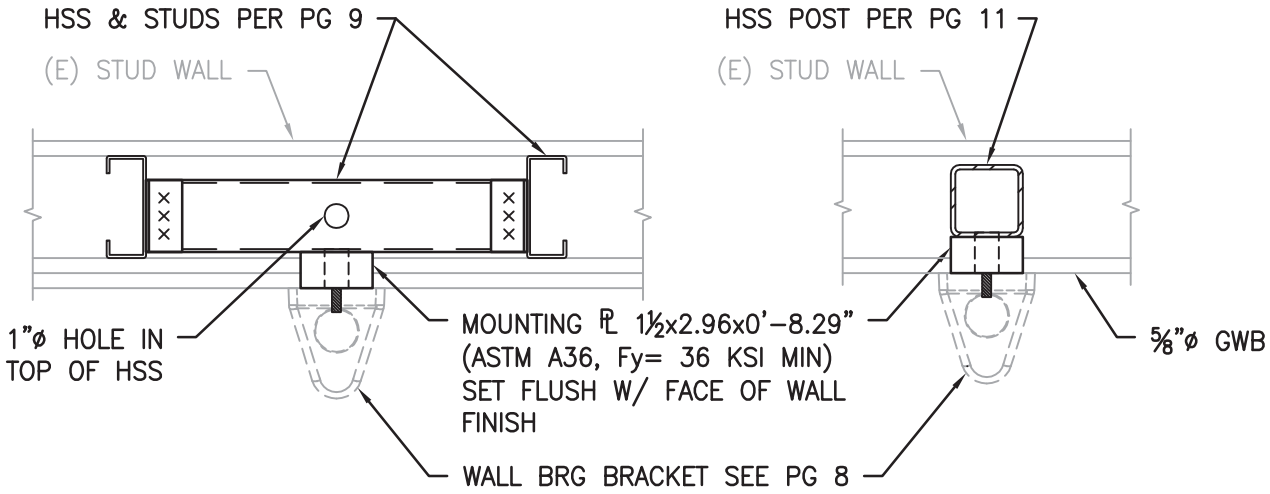
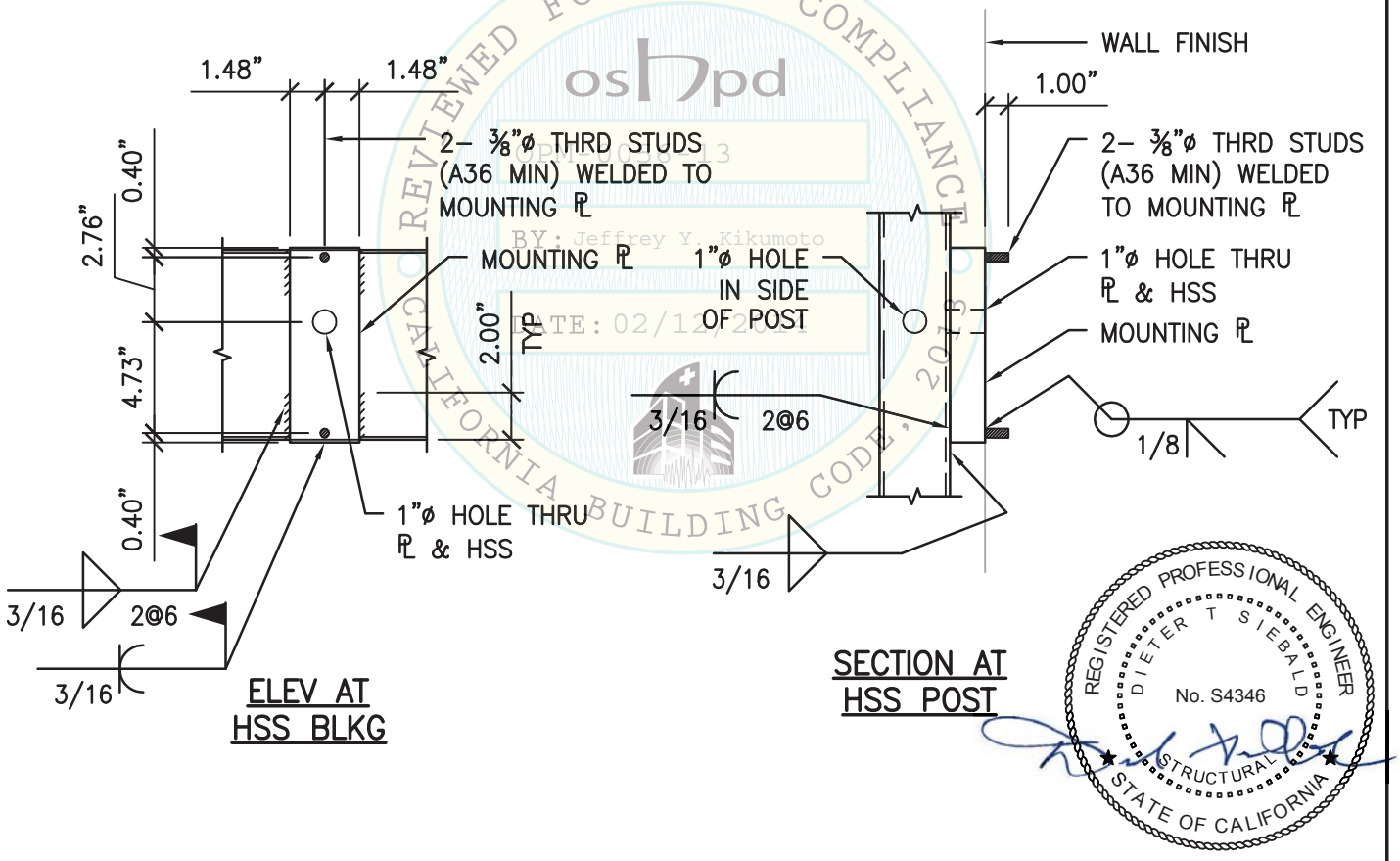
TRUMPF MEDICAL SYSTEMS
TRULIGHT 1000



PLAN AT HSS BLKG

PLAN AT HSS POST



REGISTERED PROFESSIONAL ENGINEER
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SHEET TITLE: MOUNTING PLATE ATTACHMENT

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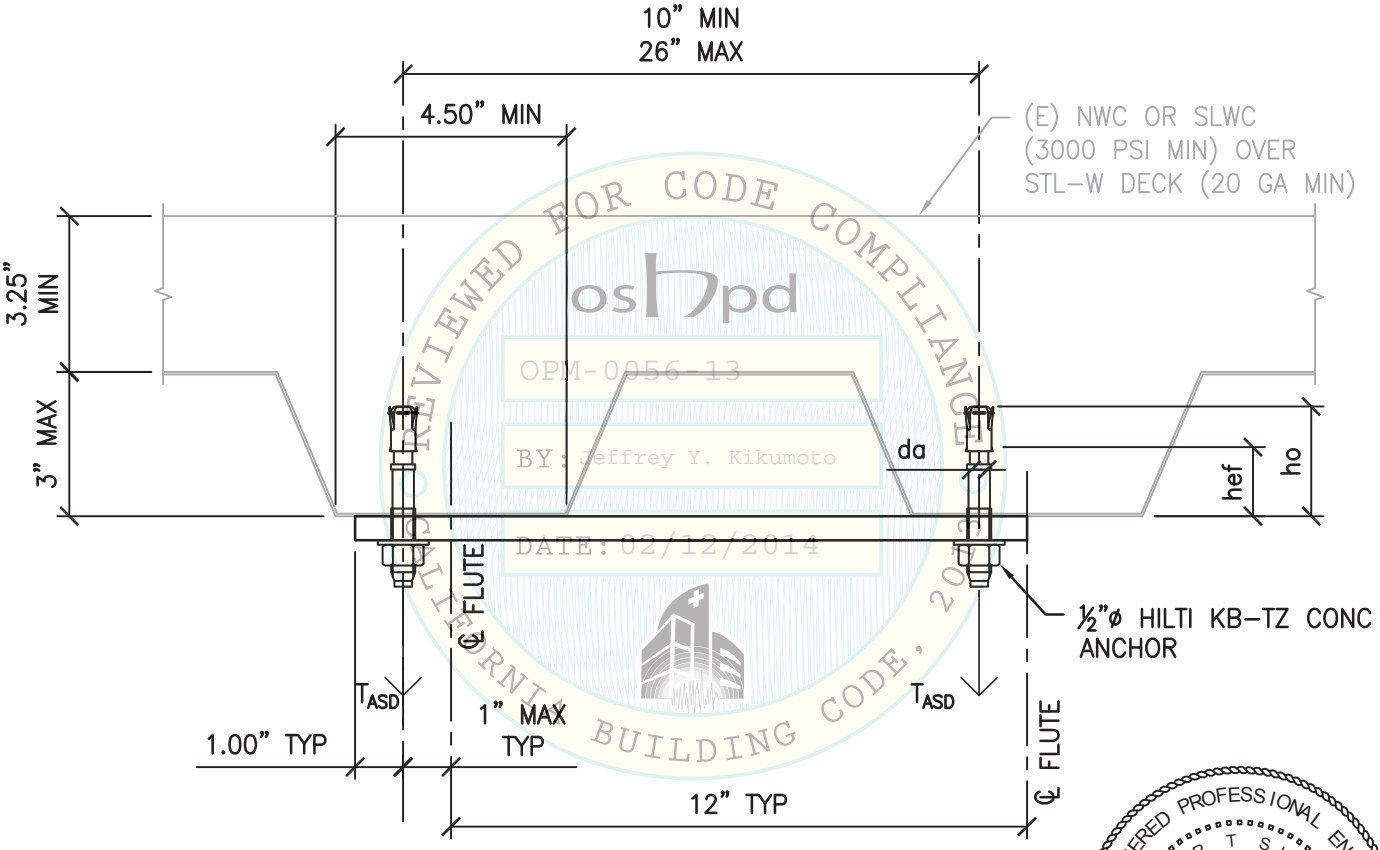
TRUMPF MEDICAL SYSTEMS
TRULIGHT 1000

TRUMPF

ALLOWABLE VERT LOAD (LBS) T_{ASD}	ANCHOR DIA (INCH) da	EFFECTIVE EMBED (INCH) hef	HOLE DEPTH (INCH) ho	MIN SPACING (INCH) Smin	MIN EDGE DISTANCE (INCH) Cmin	TORQUE (FT-LBS)
610	½	2¼	2⅝	6¾	7	40

NOTES:
1. MIN SPACING REQUIREMENT IS ALONG FLUTE LENGTH ONLY.
2. ALLOWABLE LOADS TAKEN FROM OSHPD OPD-0001-13.



REGISTERED PROFESSIONAL ENGINEER
DIETER T SIEBALD
No. S4346
STRUCTURAL
STATE OF CALIFORNIA

SHEET TITLE: UNDERSIDE OF METAL DECK

CYS STRUCTURAL ENGINEERS, INC.
2495 NATOMAS PARK DRIVE, SUITE 650
SACRAMENTO, CA 95833
TEL (916) 920-2020
www.cyseng.com

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