



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

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

OFFICE USE ONLY

APPLICATION #: OPM-0520

HCAI Preapproval of Manufacturer's Certification (OPM)

Type:  New  Renewal/Update

Manufacturer Information

Manufacturer: Belimed, Inc

Manufacturer's Technical Representative: Jay Upchurch

Mailing Address: 8351 Palmetto Commerce Parkway, Suite 10, Ladson, SC 29456

Telephone: (843) 216-7424 Email: jay.upchurch@belimed.com

Product Information

Product Name: ELD / WTD (14) External

Product Type: Steam Generator / Steam Exchanger

Product Model Number: ELD / WTD 30, ELD / WTD 45, ELD / WTD 60, ELD / WTD 90

General Description: ELD / WTD: The purpose of this pressure device is to generate pure steam for general use for e.g. sterilizers.

Applicant Information

Applicant Company Name: Belimed, Inc

Contact Person: Jay Upchurch

Mailing Address: 8351 Palmetto Commerce Parkway, Suite 10, Ladson, SC 29456

Telephone: (843) 216-7424 Email: jay.upchurch@belimed.com

Title: Product Manager

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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY





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**Registered Design Professional Preparing Engineering Recommendations**

Company Name: ISAT SEISMIC BRACING  
Name: Deep Shah California License Number: S5867  
Mailing Address: 14848 Northam Street, La Mirada, CA 90638  
Telephone: (714) 523-1771 Email: dshah@isatsb.com

**HCAI Special Seismic Certification Preapproval (OSP)**

Special Seismic Certification is preapproved under OSP OSP Number: \_\_\_\_\_

**Certification Method**

Testing in accordance with:  ICC-ES AC156  FM 1950-16  
 Other(s) (Please Specify): \_\_\_\_\_

\*Use of criteria other than those adopted by the California Building Standards Code, 2022 (CBSC 2022) 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 2022 may be used when approved by HCAI prior to testing.

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

**HCAI Approval**

Date: 5/21/2024  
Name: Timothy Piland Title: Senior Structural Engineer  
Condition of Approval (if applicable): \_\_\_\_\_

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**STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY**





## Submittal Documents

### OSHPD OPM-0520

OPM-0520

# ATTACHMENT OPM DRAWINGS ELD/WTD EXTERNAL STEAM GENERATOR / STEAM EXCHANGER

**BELIMED**



ISAT  
14848 Northam Street,  
La Mirada, CA 90638  
877-999-4728

05/20/2024

FILE NO.: CLT-0818-222

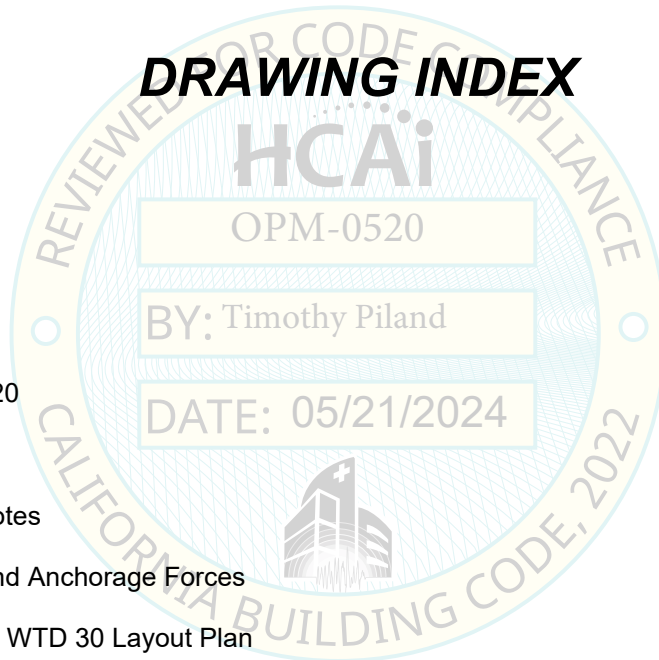
REV 5

OSHPD OPM-0520 DWG - i



# OSHPD OPM-0520

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### DRAWING INDEX

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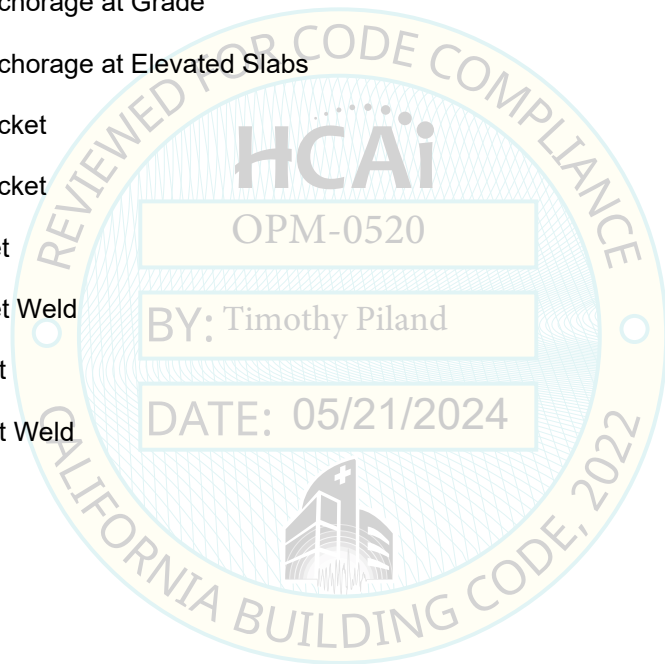
FILE NO.: CLT-0188-222

***“Empowered by Experience”***

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# OSHPD OPM-0520

MANUFACTURE: BELIMED

EQUIPMENT TYPE: STEAM GENERATOR/STEAM EXCHANGER

## GENERAL NOTES

1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2019. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2019.
2. SEISMIC CRITERIA USED:  $S_{DS} = 2.50$   $I_p = 1.5$   $a_p = 1.0$   $R_p = 1.5$  (OTHER MECHANICAL COMPONENT)  $z/h = 0.0$  WITH  $F_{pH} = 1.13$  AT GRADE OR  $z/h \leq 1.0$  WITH  $F_{pH} = 3.00$  FOR ELEVATED FLOORS.  $F_{pV} = 0.50$ .
3. SUPPORT AND ATTACHMENT FORCES ARE DETERMINED USING ASCE 7-16 CHAPTER 13 "SEISMIC DESIGN REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS". AN OVERSTRENGTH FACTOR  $\Omega_0 = 2.0$  IS USED FOR CONCRETE ANCHORAGE FORCES PER ASCE 7-16 TABLE 13.6-1. LOADS SHOWN ARE STRENGTH DESIGN LOADS PER ASCE 7-16 SECTION 12.4.3.2.
4. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
5. THIS PREAPPROVAL IS FOR CONCRETE SLAB AT GRADE OR ELEVATED SLABS FOR THE DEMAND LOADS SHOWN WHERE  $S_{DS} \leq 2.5$ .
6. STEEL MATERIALS: THROUGH BOLTS AISI 304 STAINLESS STEEL (MIN TENSILE STRENGTH OF 73 KSI) WITH MATCHING WASHERS AND NUTS. BRACKETS BY BELIMED EURONORM 1.4301 STAINLESS STEEL WITH A TENSILE STRENGTH OF 73KSI (500 Mpa) AND MINIMUM YIELD STRENGTH OF 28 KSI (195 Mpa, EQUIVALENT TO 304 SS). FRAME MEMBERS ARE FABRICATED FROM EURONORM 1.4301 STAINLESS STEEL EQUIVALENT TO 304 SS. BOLTS FOR FRAME MATERIALS: 1.4301 (304) WITH TENSILE STRENGTH 102 KSI (700 N/mm<sup>2</sup>).
7. CONCRETE SLABS:
  - a. FOR SLAB ON GRADE OR ELEVATED SOLID CONCRETE SLABS: 6" MINIMUM THICKNESS OF NORMAL WEIGHT CONCRETE WITH 4000 PSI MINIMUM STRENGTH.
  - b. METAL DECK: 3" DEEP COMPOSITE STEEL DECK, 20 GAGE MINIMUM WITH FLUTE SPACING OF 12", 4.5 INCH MINIMUM BOTTOM FLUTE WIDTH WITH 3.25" SAND LIGHT WEIGHT OR NORMAL WEIGHT CONCRETE COVER AT 4000 PSI MINIMUM STRENGTH.
8. POST-INSTALLED CONCRETE ANCHORS FOR SOLID CONCRETE: HILTI KWIK BOLT TZ2 (ESR-4266) STAINLESS STEEL 5/8" DIAMETER x 4.25" HOLE DEPTH (3.25" EFFECTIVE EMBEDMENT), 4" MINIMUM EDGE DISTANCE AND 3.62" MINIMUM SPACING FOR SLAB ON GRADE. HILTI KWIK BOLT TZ2 (ESR-4266) STAINLESS STEEL 5/8" DIAMETER x 4.75" HOLE DEPTH (4" EFFECTIVE EMBEDMENT), 16" MINIMUM EDGE DISTANCE AND 3.62" MINIMUM SPACING FOR ELEVATED SOLID SLAB, TORQUE TO 60 FT-LBS. FOR ANCHORS INTO SOFFIT OF THE METAL DECK USE 1/2" DIAMETER x 2.75" HOLE DEPTH (2" EFFECTIVE EMBEDMENT), 6" MINIMUM EDGE DISTANCE AND 8" MINIMUM SPACING FOR ELEVATED SLABS.

OPM-0520 BELIMED ELD AND WTD STEAM GENERATOR/EXCHANGER

## GENERAL NOTES

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**OSHPD OPM-0520**

MANUFACTURE: BELIMED

EQUIPMENT TYPE: STEAM GENERATOR/STEAM EXCHANGER

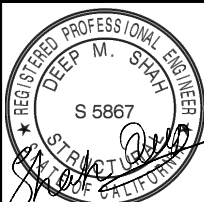
**ATTACHMENT NOTES:**

1. REFER TO OPM-0520 DETAILS FOR THE MATERIALS OF CONSTRUCTION AND FASTENER DIMENSIONS.
2. THROUGH BOLT INSTALLATION AND INSPECTION (DETAILS OF THE SUPPLEMENTAL STEEL AND CONNECTIONS TO STRUCTURE ARE SHOWN ON PAGE "ELEVATED".)
  - a. THROUGH BOLTS ARE TO BE TORQUED BY 3/4 TURN OF THE NUT AFTER SNUG TIGHT CONDITION IS ACHIEVED. SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS REQUIRED TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.
  - b. THROUGH BOLT HOLES SHALL BE 1/16" LARGER THAN THE BOLT SIZE (HOLE SIZE = BOLT SIZE + 1/16") FOR BOTH THE STEEL AND CONCRETE.
  - c. THROUGH BOLTS WITH STEEL-TO-STEEL CONNECTION IN TENSION DO NOT REQUIRE TESTING.
3. FOR POST INSTALLED CONCRETE ANCHORS PERIODIC SPECIAL INSPECTION SHALL BE IN ACCORDANCE WITH CBC 2019 SECTION 1705A AND TABLE 1705A.3 INCLUDING VERIFICATION OF ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, ANCHOR SPACING, EDGE DISTANCES, CONCRETE MEMBER THICKNESS, TIGHTENING TORQUE, HOLE DIMENSIONS, ANCHOR EMBEDMENT AND ADHERENCE TO THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. IN ADDITION, FOLLOW THE PROVISIONS OF THE 2019 CALIFORNIA BUILDING CODE SECTION 1910A.5 BY CONFIRMING THE INSTALLATION TORQUE OF 60 FT-LBS FOR 5/8" BOLTS (STAINLESS STEEL) AND 50 FT-LBS FOR 1/2" BOLTS (CARBON STEEL). TEST 50% OF THE ANCHORS FOR EACH PIECE OF EQUIPMENT. IF ANY FAILS TEST ALL ANCHORS. TESTING AND SPECIAL INSPECTION OF EXPANSION ANCHORS SHALL BE PERFORMED BY AN APPROVED AGENCY EMPLOYED BY THE FACILITY OWNER PER CBC 1704A AND 1910A.5 AND CAC 7-249. A REPORT OF TEST RESULTS IS TO BE SUBMITTED TO THE INSPECTOR OF RECORD, OWNER AND ARCHITECT OR ENGINEER IN RESPONSIBLE CHARGE.
4. EXERCISE DUE CARE WHEN DRILLING POST-INSTALLED ANCHORS TO AVOID DAMAGING CONCRETE REINFORCEMENT OR TENDONS.
5. PROVIDE FOR FULL THREAD ENGAGEMENT OF NUT AND WASHER.

**RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD**

1. CONFIRM THE MINIMUM REQUIREMENTS SPECIFIED IN THIS OPM FOR THE CONCRETE SLAB ARE MET, INCLUDING MATERIAL PROPERTIES AND THICKNESS OF CONCRETE SLAB.
2. PROVIDE A PLAN FOR INSPECTION OF SUPPORTS AND ATTACHMENTS AND VERIFY ITS IMPLEMENTATION.
3. VERIFY THAT THE EXISTING STRUCTURE IS ADEQUATE FOR THE IMPOSED DEAD, LATERAL AND TENSION FORCES SHOWN IN ADDITION TO ALL OTHER LOADS.
4. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH CBC 2019 AND WITH THE OPM-0520 DETAILS.
5. VERIFY THAT THE PROJECT SPECIFIC  $S_{DS}$  AND  $z/h$  VALUES RESULT IN SEISMIC FORCES ( $E_h$  AND  $E_v$ ) DO NOT EXCEED THE VALUES SHOWN IN THESE DETAILS.

OPM-0520 BELIMED ELD AND WTD STEAM GENERATOR/EXCHANGER  
ATTACHMENT NOTES

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BELIMED ELD/WTD STEAM GENERATOR/STEAM EXCHANGER DIMENSIONS AND WEIGHTS									
Steam Generator/ Steam Exchanger		ELD 30	ELD 45	ELD 60	ELD 90	WTD 30	WTD 45	WTD 60	WTD 90
Operating Wt	lb	538	666	756	869	560	672	750	827
CG X	in	14.4	14.8	14.3	15.1	14.0	14.7	14.1	14.4
Ecc X	in	-2.4	-1.9	-2.1	-1.3	-2.4	-1.8	-2.1	-1.8
CG Y	in	16.0	27.0	28.9	28.3	16.0	26.1	28.9	30.0
Ecc Y	in	-1.2	-0.2	-5.3	-4.2	-1.3	-0.8	-5.2	-4.2
CG Z	in	22.2	22.2	21.6	21.9	22.7	22.4	21.2	21.0

CENTER OF GRAVITY (CG) IN THE X AND Y DIMENSIONS IS MEASURED FROM THE LOWER RIGHT CORNER OF THE EQUIPMENT LEG; SEE EQUIPMENT PLAN SHEETS. CG Z IS MEASURED FROM THE FLOOR TO THE VERTICAL CENTER OF GRAVITY.

Model	Attachment at Grade			Attachment at Elevated Slab		
	Anchor Type	Forces at Grade		Anchor Type	Forces at Elevated Slab	
	See Page "GEN NOTES" - Note 8	Vu - lbf	Tu - lbf	Note 2	Vu - lbf	Tu - lbf
ELD 30	HILTI KB TZ2 SS 0.625" x 3.25"	421	602	HILTI KB TZ2 SS 0.625" x 4" / 0.625" SS ROD	1146	1684
ELD 45	HILTI KB TZ2 SS 0.625" x 3.25"	515	577	HILTI KB TZ2 SS 0.625" x 4" / 0.625" SS ROD	1396	1619
ELD 60	HILTI KB TZ2 SS 0.625" x 3.25"	624	639	HILTI KB TZ2 SS 0.625" x 4" / 0.625" SS ROD	1560	1755
ELD 90	HILTI KB TZ2 SS 0.625" x 3.25"	667	499	HILTI KB TZ2 SS 0.625" x 4" / 0.625" SS ROD	1762	1938
WTD 30	HILTI KB TZ2 SS 0.625" x 3.25"	421	602	HILTI KB TZ2 SS 0.625" x 4" / 0.625" SS ROD	1146	1684
WTD 45	HILTI KB TZ2 SS 0.625" x 3.25"	515	577	HILTI KB TZ2 SS 0.625" x 4" / 0.625" SS ROD	1396	1619
WTD 60	HILTI KB TZ2 SS 0.625" x 3.25"	624	639	HILTI KB TZ2 SS 0.625" x 4" / 0.625" SS ROD	1560	1755
WTD 90	HILTI KB TZ2 SS 0.625" x 3.25"	667	499	HILTI KB TZ2 SS 0.625" x 4" / 0.625" SS ROD	1762	1938

1. Tu AND Vu VALUES INCLUDE AN OVERSTRENGTH FACTOR OF 2.0 IN ACCORDANCE WITH ASCE 7-16
2. SEE NOTE 6 OR 8 ON PAGE "GEN NOTES". FOR ANCHORS AT ELEVATED SLAB ON METAL DECK, USE 0.625" SS ROD

OPM-0520 BELIMED ELD AND WTD STEAM GENERATOR/EXCHANGER  
DIMENSIONS AND ANCHORAGE FORCES

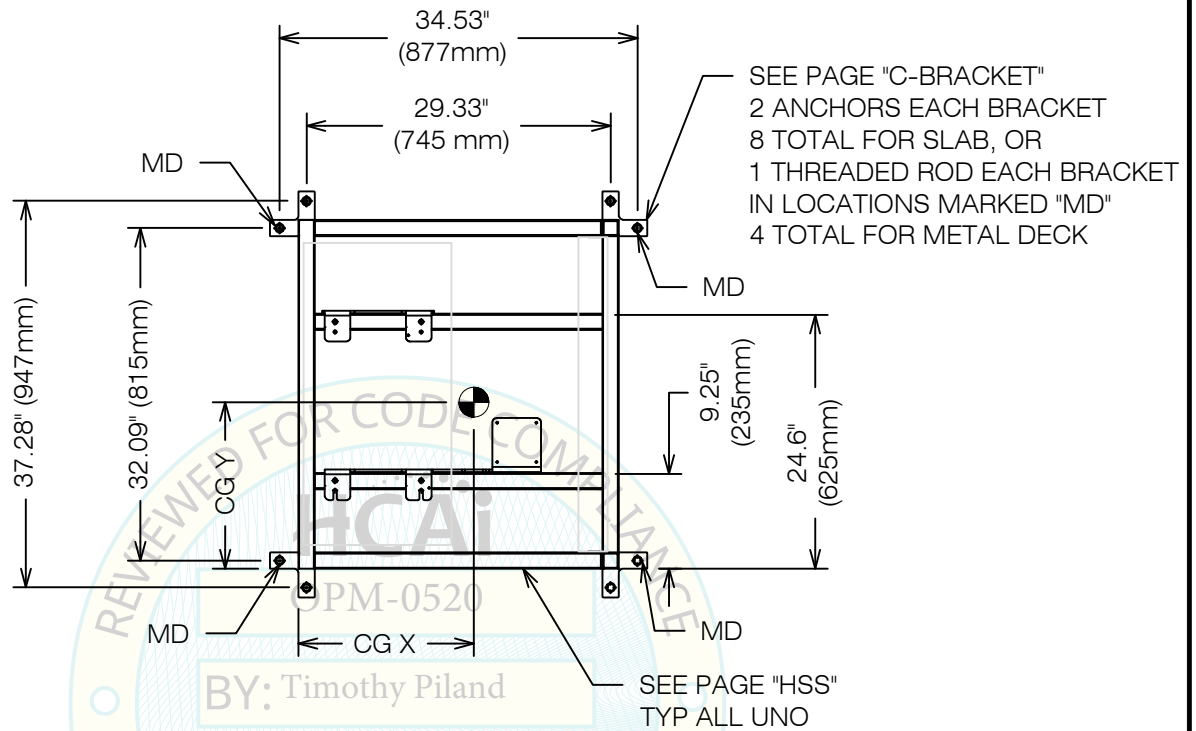


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N.T.S.	DIMENSIONS	

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REVIEWED FOR CODE COMPLIANCE BY: Timothy Piland  
 DATE: 05/21/2024

ANCHORS ARE BY INSTALLATION CONTRACTOR. SEE NOTE 8 ON PAGE "GEN NOTES".  
 SEE PAGE "SOLID" FOR ANCHORS INTO SOLID CONCRETE AT GRADE OR ELEVATED AND  
 PAGE "ELEVATED" FOR ANCHORS AT SLAB ON METAL DECK.

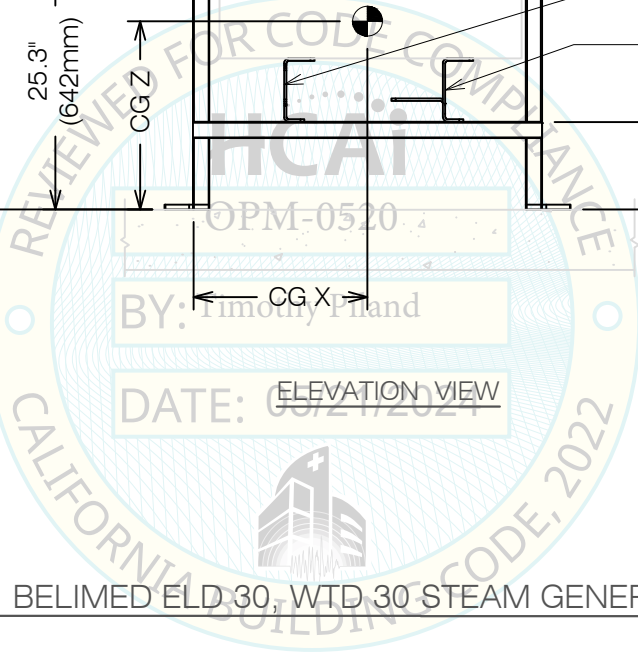
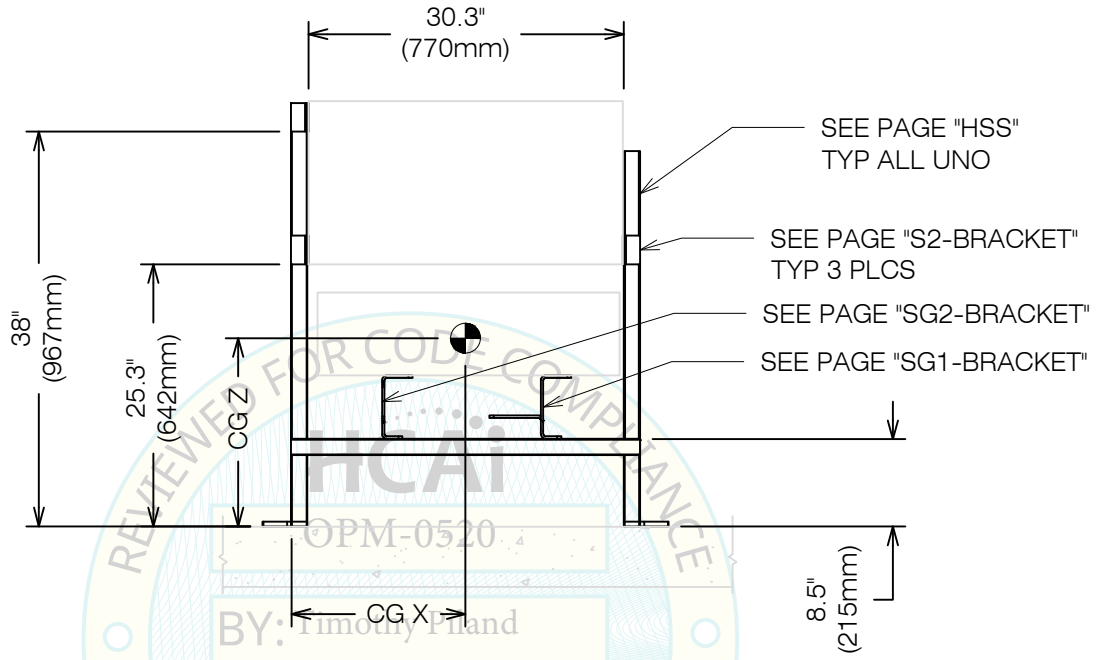
OPM-0520 BELIMED ELD 30, WTD 30 STEAM GENERATOR/EXCHANGER  
FRAME LAYOUT AND ATTACHMENT PLAN



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ELEVATION VIEW

OPM-0520 BELIMED ELD 30, WTD 30 STEAM GENERATOR/EXCHANGER

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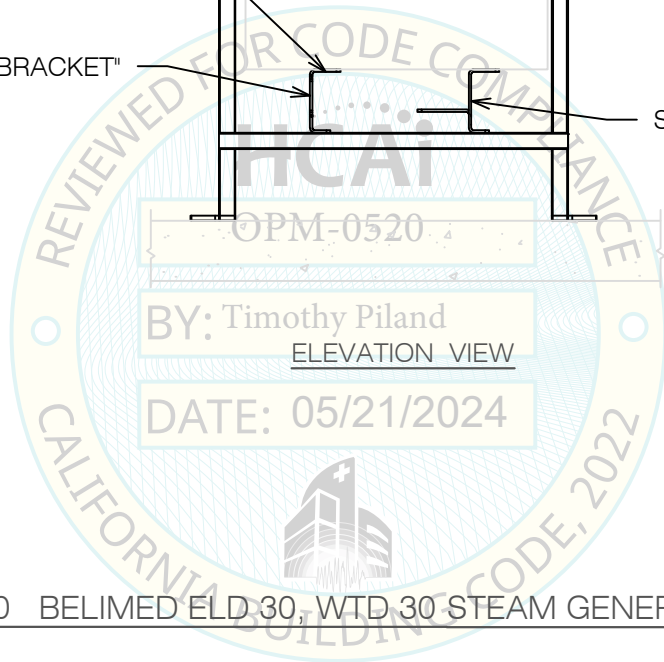
(2) 0.32in [8mm] BOLTS  
 EURONORM 1.4301 (304)  
 102 KSI TENSILE STRENGTH  
 TYP 2 PLCS

SEE PAGE "SG2-BRACKET"

SEE PAGE "S2-BRACKET"  
 TYP 3 PLCS

(2) 0.32in [8mm] BOLTS EACH  
 EURONORM 1.4301 (304)  
 102 KSI TENSILE STRENGTH  
 TYP 3 PLCS

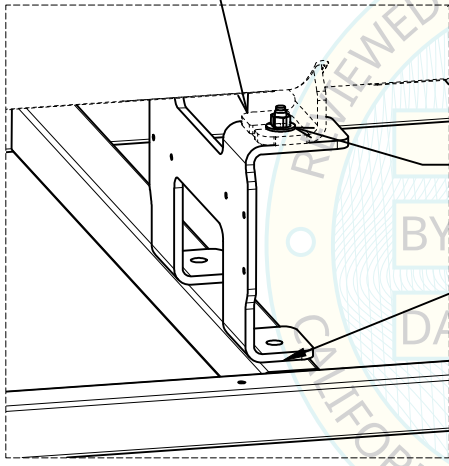
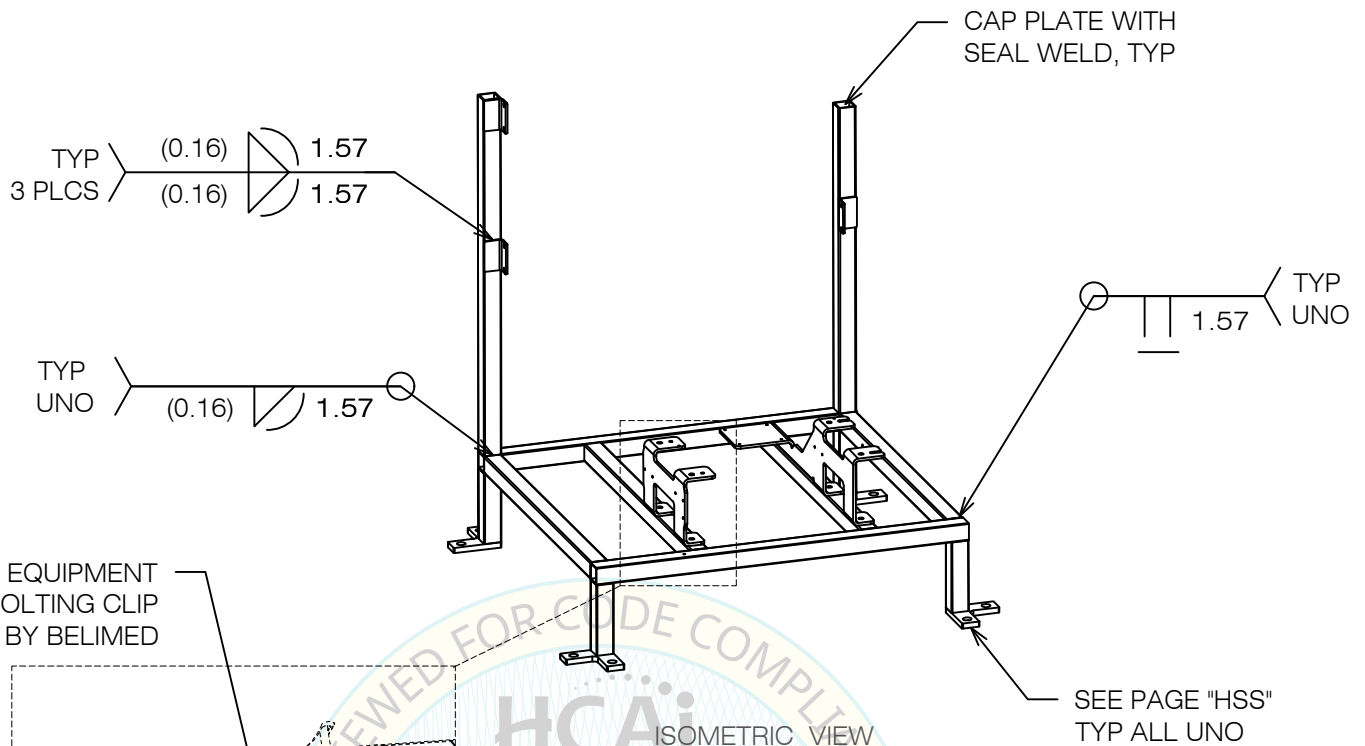
SEE PAGE "SG1-BRACKET"



OPM-0520 BELIMED ELD 30, WTD 30 STEAM GENERATOR/EXCHANGER

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N.T.S.	ELD30 CONN			

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ISOMETRIC VIEW

OPM-0520

0.32in [8mm] BOLTS, EURONORM 1.4301 (304)  
102 KSI TENSILE STRENGTH, TYP 4 PLCS

BY: Timothy Piland

DATE: 05/21/2024

(0.16) 1.57 TYP  
2 PLCS  
(0.16) 1.57 2 BRKTS

NOTES:  
1. ALL WELDS BY BELIMED.

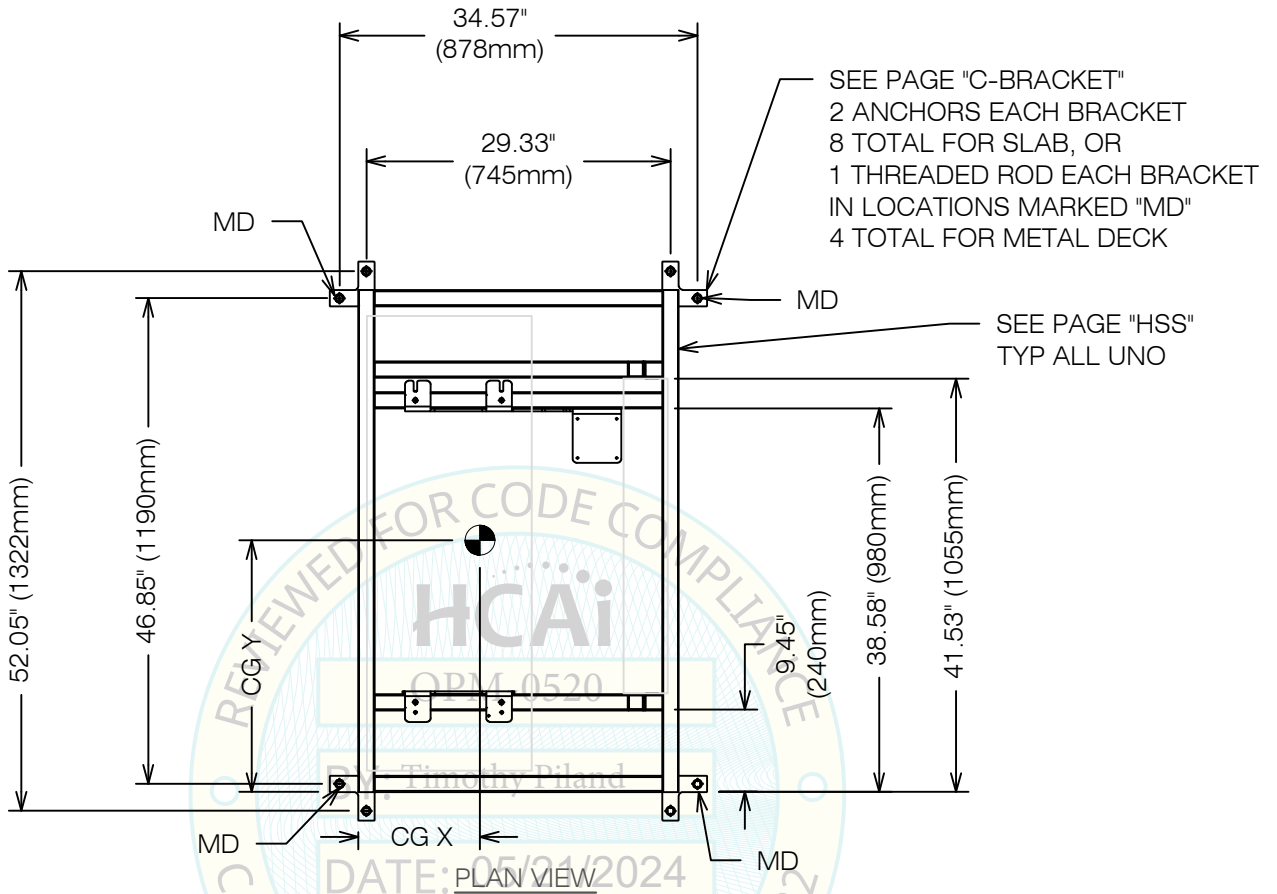
OPM-0520 BELIMED ELD 30, MTD 30 STEAM GENERATOR/EXCHANGER



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<b>SCALE</b> N.T.S.	<b>PAGE</b> ELD30 WELD	

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ANCHORS ARE BY INSTALLATION CONTRACTOR. SEE NOTE 8 ON PAGE "GEN NOTES". SEE PAGE "SOLID" FOR ANCHORS INTO SOLID CONCRETE AT GRADE OR ELEVATED AND PAGE "ELEVATED" FOR ANCHORS AT SLAB ON METAL DECK.

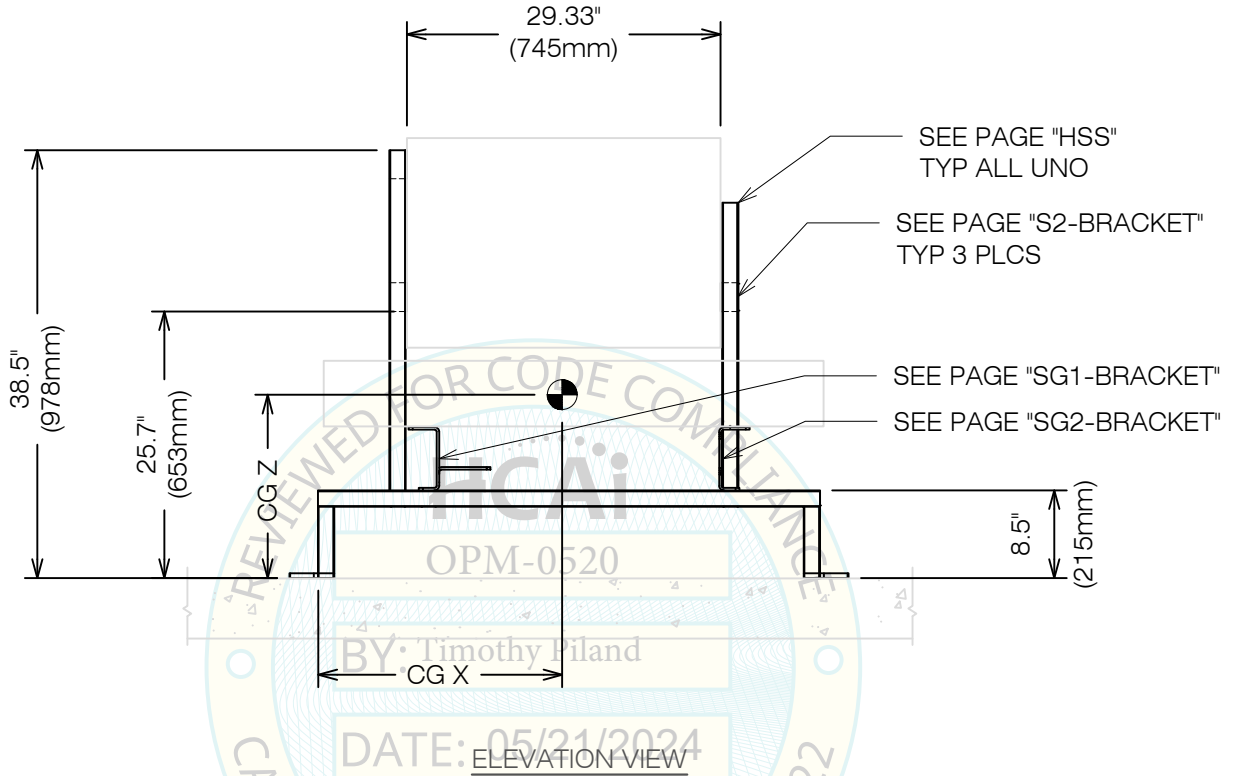
OPM-0520 BELIMED ELD 45, WTD 45 STEAM GENERATOR/EXCHANGER  
FRAME LAYOUT AND ATTACHMENT PLAN



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	<b>SCALE</b> N.T.S.	<b>PAGE</b> ELD45 PLAN

OSHPD OPM - 0520 DWG - 8



OPM-0520 BELIMED ELD 45, WTD 45 STEAM GENERATOR/EXCHANGER



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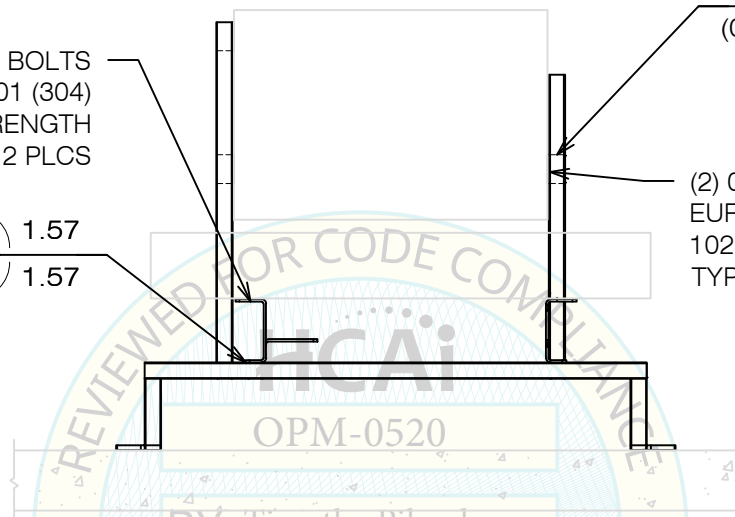
OSHPD OPM - 0520 DWG - 9

(2) 0.32in [8mm] BOLTS  
 EURONORM 1.4301 (304)  
 102 KSI TENSILE STRENGTH  
 TYP 2 PLCS

TYP (0.16) 1.57  
 (0.16) 1.57

(0.12) 1.38  
 (0.12) 1.38 TYP

(2) 0.32in [8mm] BOLTS  
 EURONORM 1.4301 (304)  
 102 KSI TENSILE STRENGTH  
 TYP 3 PLCS



OPM-0520

BY: Timothy Piland  
 ELEVATION VIEW

DATE: 05/21/2024

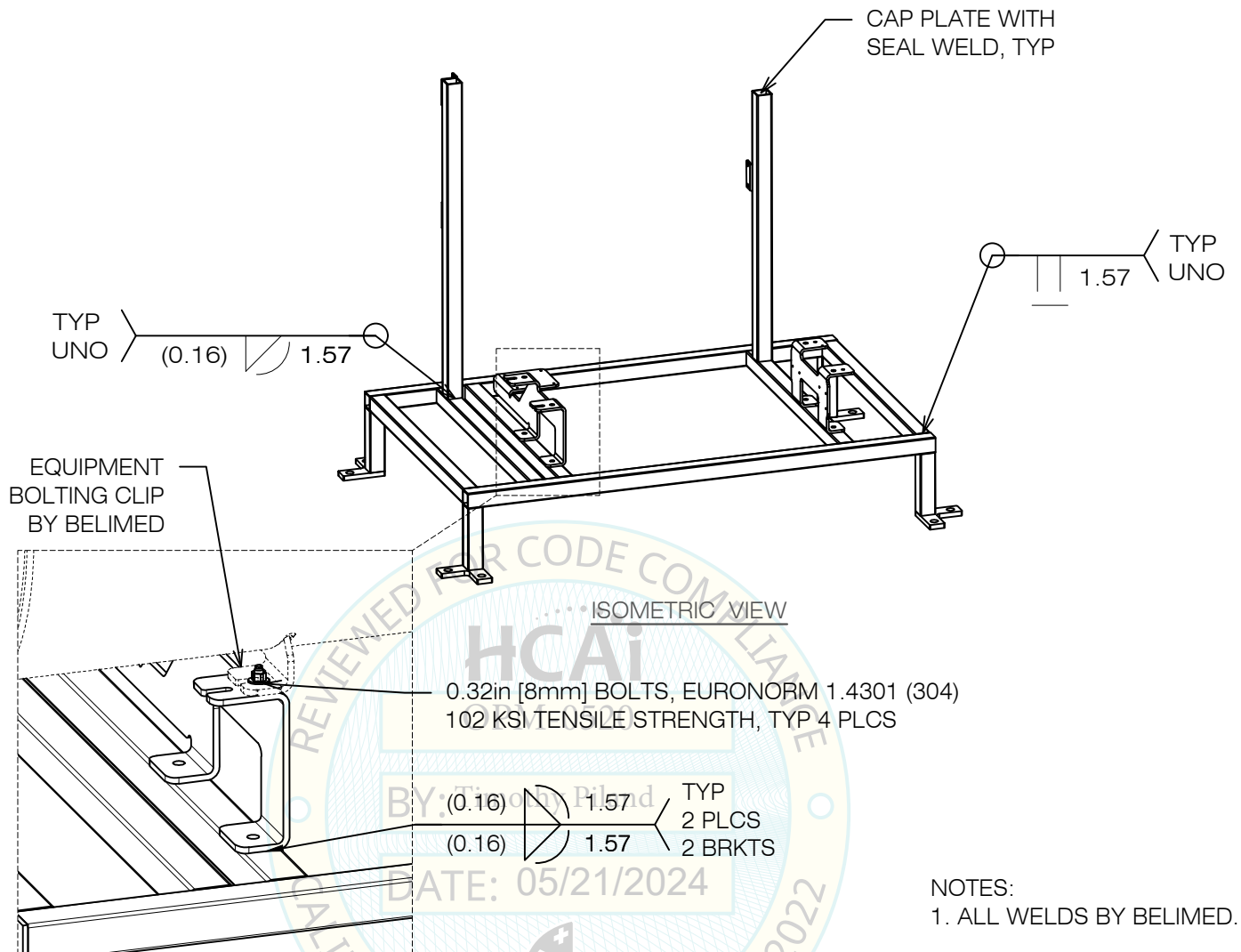
OPM-0520 BELIMED ELD 45, WTD 45 STEAM GENERATOR/EXCHANGER



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OSHPD OPM - 0520 DWG - 10



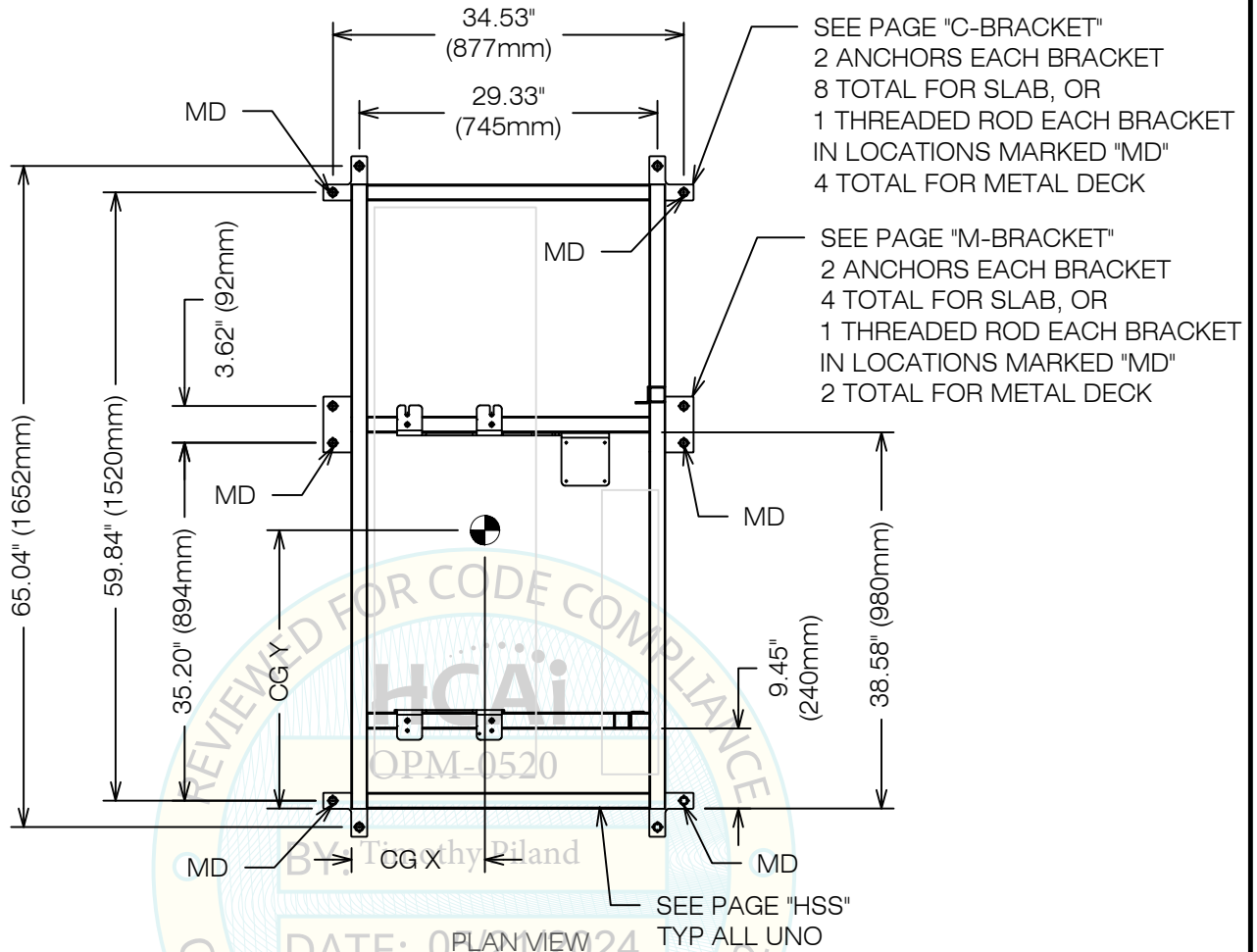
OPM-0520 BELIMED ELD 45, WTD 45 STEAM GENERATOR/EXCHANGER

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	<b>SCALE:</b> N.T.S. <b>PAGE:</b> ELD45 WELD

OSHPD OPM - 0520 DWG - 11





ANCHORS ARE BY INSTALLATION CONTRACTOR. SEE NOTE 8 ON PAGE "GEN NOTES". SEE PAGE "SOLID" FOR ANCHORS INTO SOLID CONCRETE AT GRADE OR ELEVATED AND PAGE "ELEVATED" FOR ANCHORS AT SLAB ON METAL DECK.

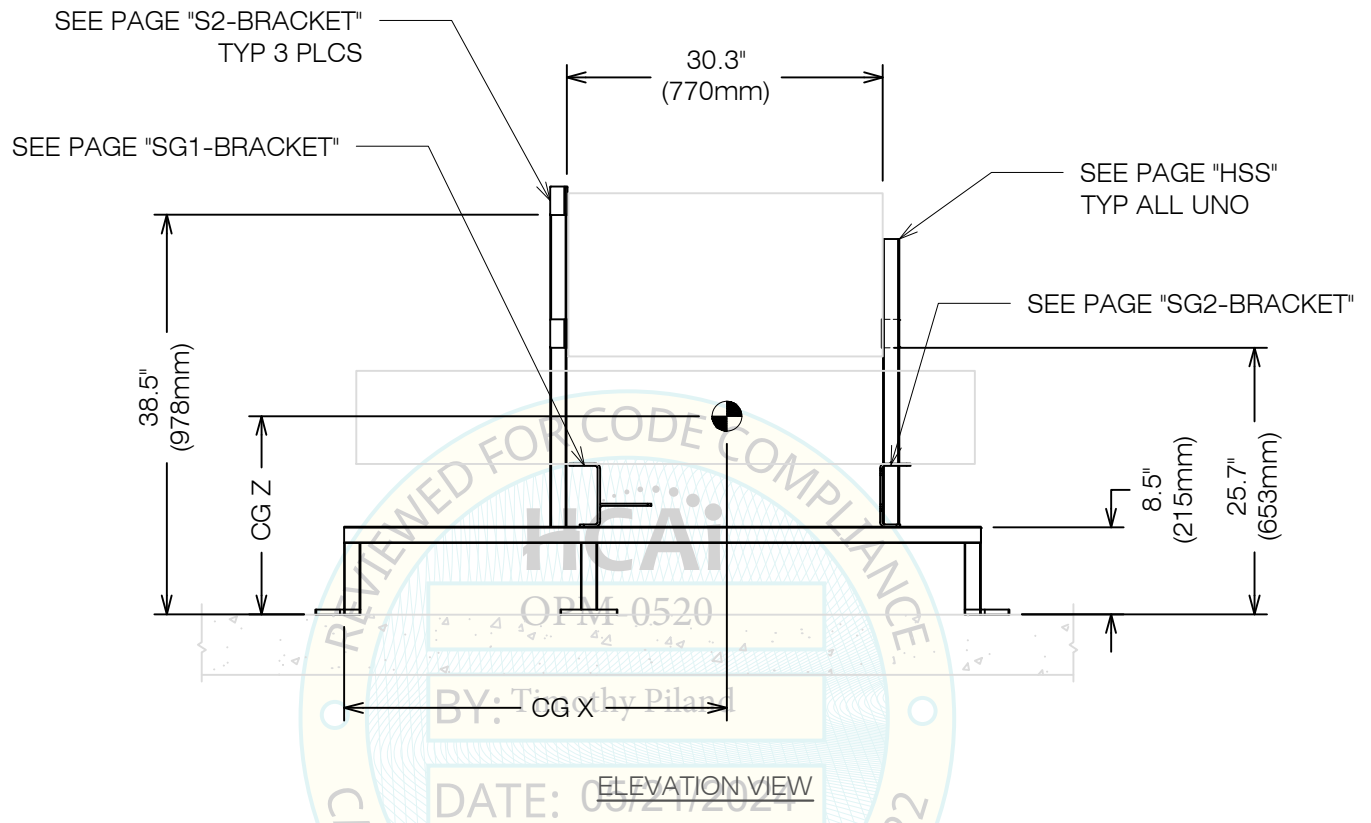
OPM-0520 BELIMED ELD 60, WTD 60, STEAM GENERATOR/EXCHANGER  
FRAME LAYOUT AND ATTACHMENT PLAN



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	<b>SCALE</b> N.T.S.	<b>PAGE</b> ELD60 PLAN

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OPM-0520 BELIMED ELD 60, WTD 60, STEAM GENERATOR/EXCHANGER



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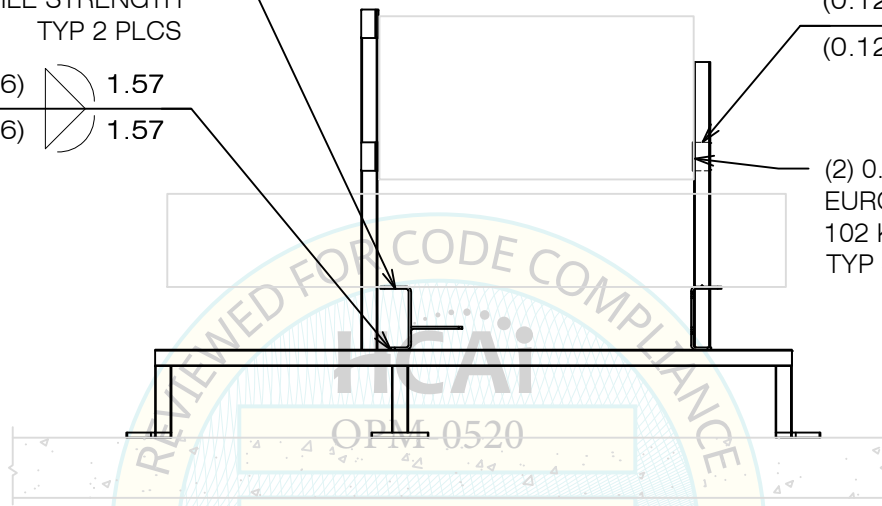
OSHPD OPM - 0520 DWG - 13

(2) 0.32in [8mm] BOLTS  
 EURONORM 1.4301 (304)  
 102 KSI TENSILE STRENGTH  
 TYP 2 PLCS

TYP (0.16) 1.57  
 (0.16) 1.57

(0.12) 1.38  
 (0.12) 1.38 TYP

(2) 0.32in [8mm] BOLTS  
 EURONORM 1.4301 (304)  
 102 KSI TENSILE STRENGTH  
 TYP 3 PLCS



BY: Timothy Piland

ELEVATION VIEW

DATE: 05/21/2024

OPM-0520 BELIMED ELD 60, WTD 60, STEAM GENERATOR/EXCHANGER



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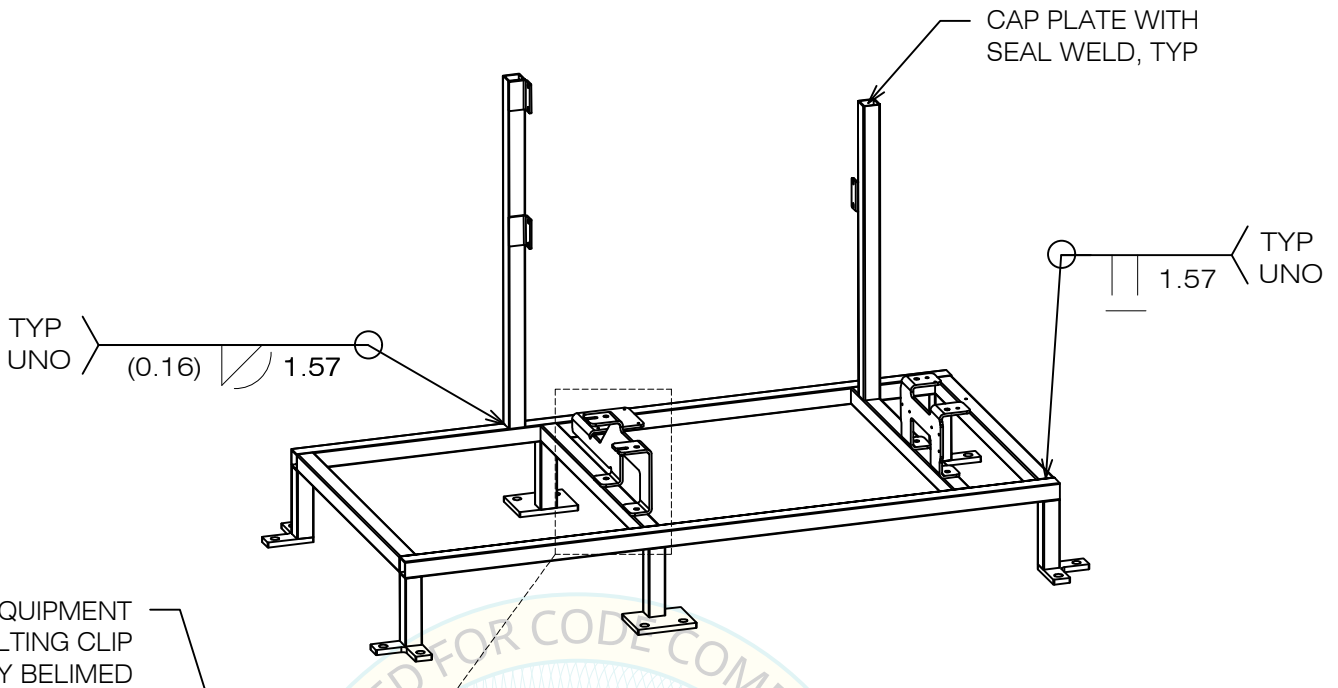


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**DATE:** 01/01/2021

**REVISED BY:** ML  
**DATE:** 05/03/24  
**REV NO:** 4

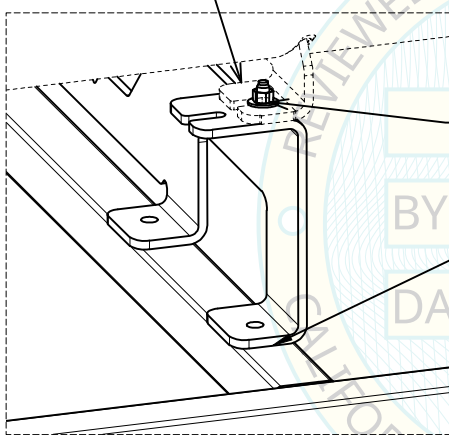
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OSHPD OPM - 0520 DWG - 14



EQUIPMENT  
BOLTING CLIP  
BY BELIMED

ISOMETRIC VIEW



0.32in [8mm] BOLTS, EURONORM 1.4301 (304)  
102 KSI TENSILE STRENGTH, TYP 4 PLCS

1.57 TYP  
2 PLCS  
1.57 TYP  
2 BRKTS

NOTES:  
1. ALL WELDS BY BELIMED.

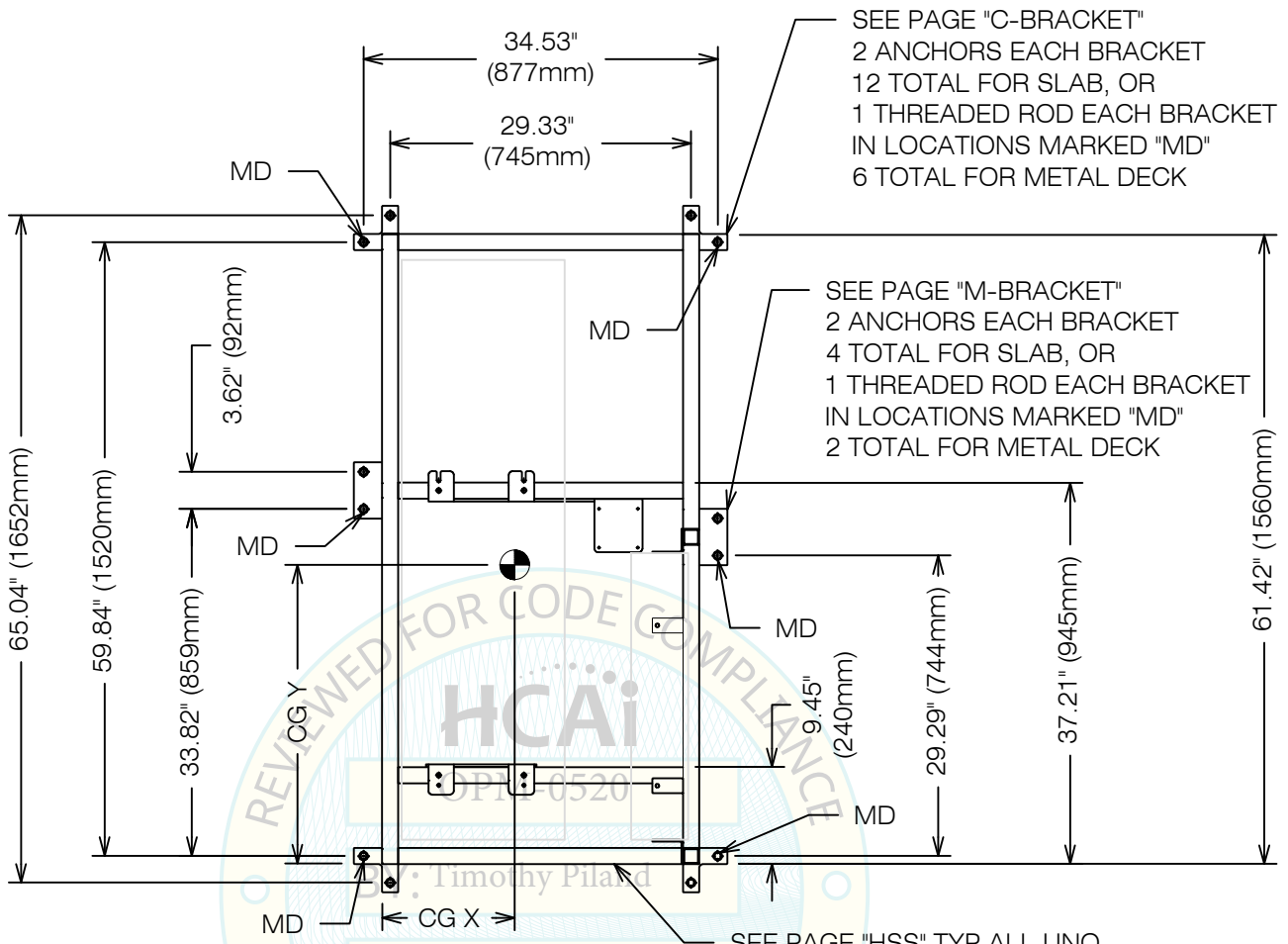
OPM-0520 BELIMED ELD 60, WTD 60 STEAM GENERATOR/EXCHANGER



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OSHPD OPM - 0520 DWG - 15



SEE PAGE "C-BRACKET"  
 2 ANCHORS EACH BRACKET  
 12 TOTAL FOR SLAB, OR  
 1 THREADED ROD EACH BRACKET  
 IN LOCATIONS MARKED "MD"  
 6 TOTAL FOR METAL DECK

SEE PAGE "M-BRACKET"  
 2 ANCHORS EACH BRACKET  
 4 TOTAL FOR SLAB, OR  
 1 THREADED ROD EACH BRACKET  
 IN LOCATIONS MARKED "MD"  
 2 TOTAL FOR METAL DECK

SEE PAGE "HSS" TYP ALL UNO

DATE: 05/03/2024

ANCHORS ARE BY INSTALLATION CONTRACTOR. SEE NOTE 8 ON PAGE "GEN NOTES". SEE PAGE "SOLID" FOR ANCHORS INTO SOLID CONCRETE AT GRADE OR ELEVATED AND PAGE "ELEVATED" FOR ANCHORS AT SLAB ON METAL DECK.

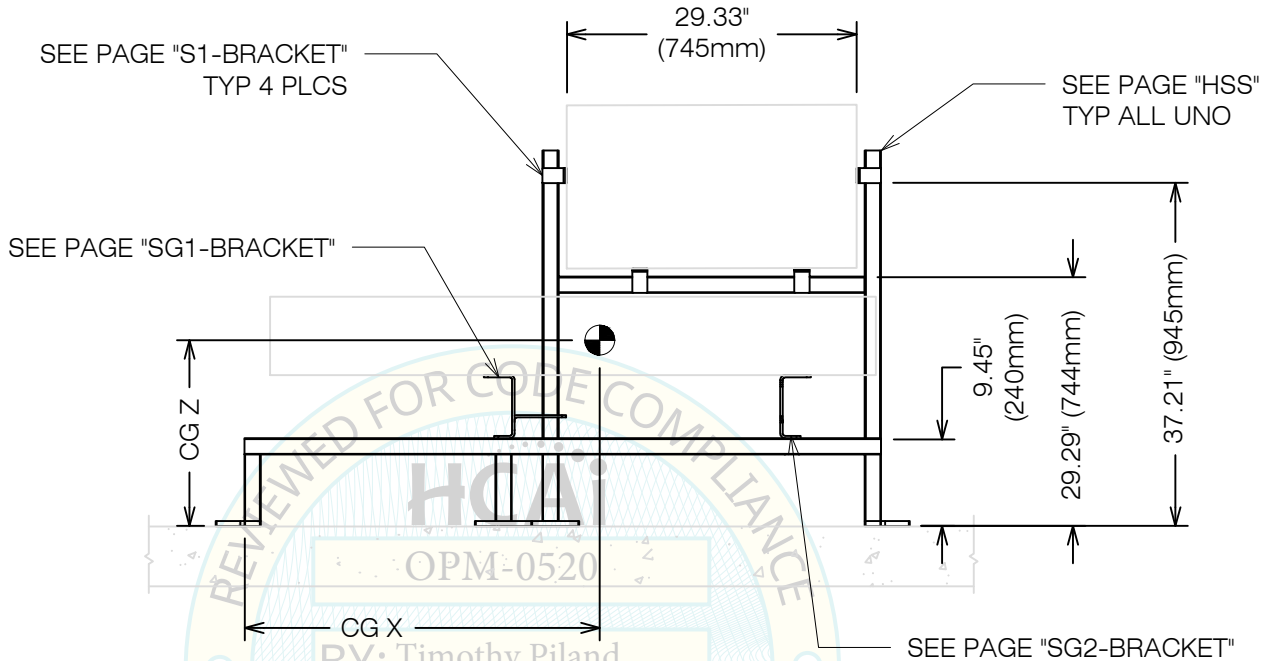
OPM-0520 BELIMED ELD 90, WTD 90, STEAM GENERATOR  
FRAME LAYOUT AND ATTACHMENT PLAN



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OSHPD OPM - 0520 DWG - 16

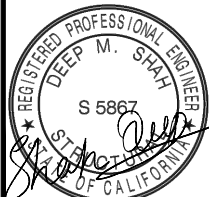


REVIEWED FOR CODE COMPLIANCE  
**HCA**  
 BY: Timothy Piland  
 ELEVATION VIEW  
 DATE: 05/21/2024

OPM-0520 BELIMED ELD 90, WTD 90, STEAM GENERATOR



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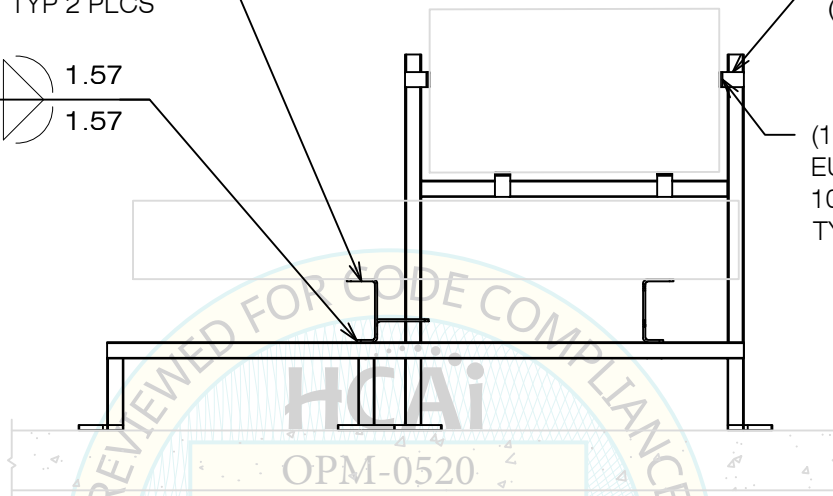
OSHPD OPM - 0520 DWG - 17

(2) 0.32in [8mm] BOLTS  
 EURONORM 1.4301 (304)  
 102 KSI TENSILE STRENGTH  
 TYP 2 PLCS

TYP (0.16) 1.57  
 (0.16) 1.57

(0.12) 1.38  
 (0.12) 1.38 TYP

(1) 0.32in [8mm] BOLT  
 EURONORM 1.4301 (304)  
 102 KSI TENSILE STRENGTH  
 TYP 4 PLCS



OPM-0520  
 BY: Timothy Piland  
 ELEVATION VIEW  
 DATE: 05/21/2024

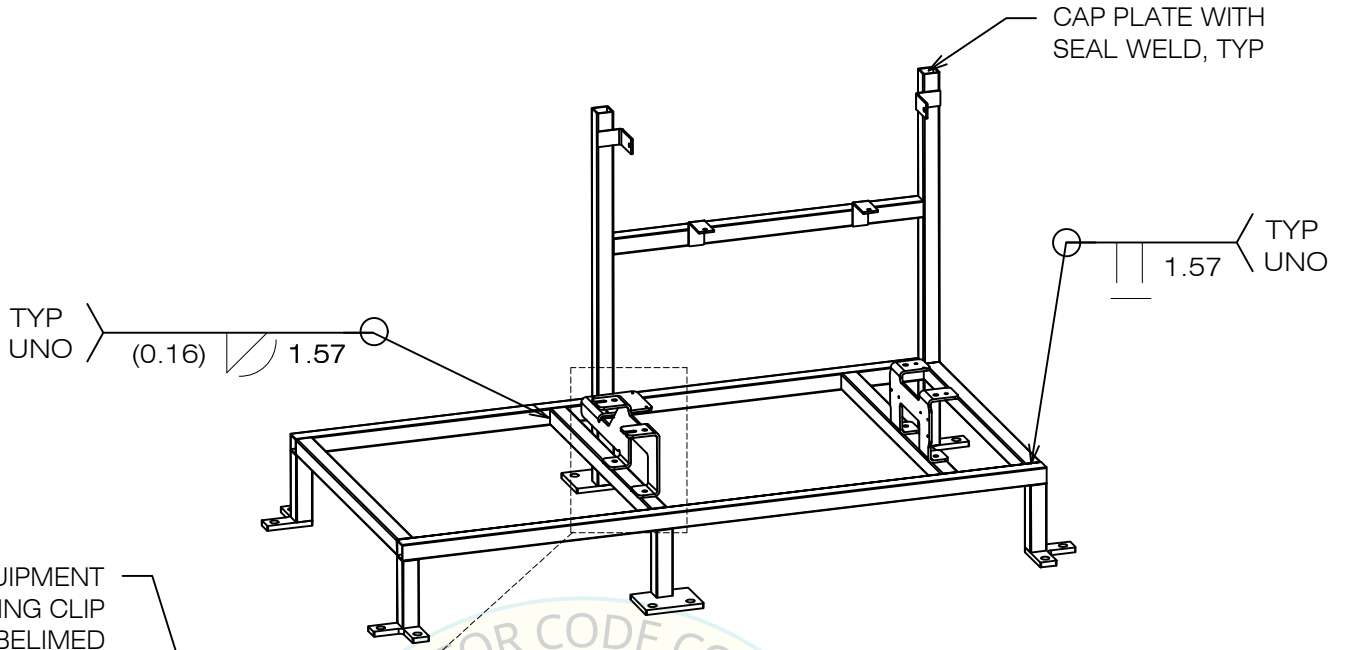
OPM-0520 BELIMED ELD 90, WTD 90, STEAM GENERATOR



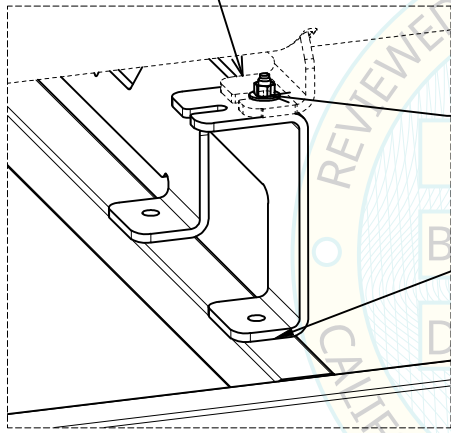
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OSHPD OPM - 0520 DWG - 18



ISOMETRIC VIEW



0.32in [8mm] BOLTS, EURONORM 1.4301 (304)  
102 KSI TENSILE STRENGTH, TYP 4 PLCS

TYP 2 PLCS  
2 BRKTS

DATE: 05/21/2024

NOTES:  
1. ALL WELDS BY BELIMED.

OPM-0520 BELIMED ELD 90, WTD 90 STEAM GENERATOR/EXCHANGER



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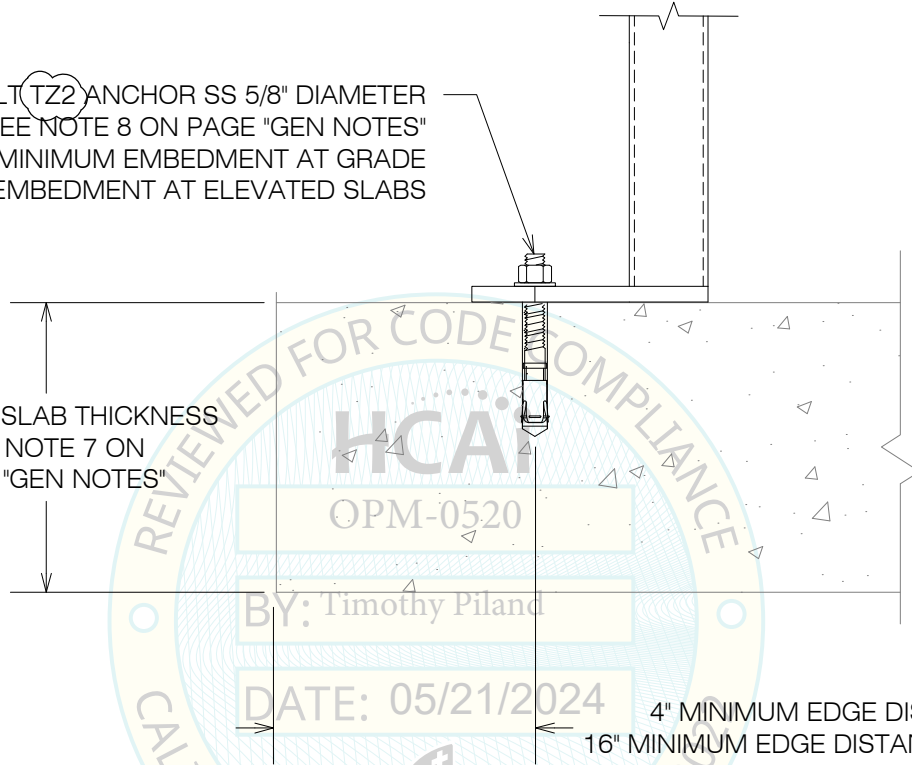
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<b>SCALE</b> N.T.S.	<b>PAGE</b> ELD90 WELD	

OSHPD OPM - 0520 DWG - 19



HILTI KWIK BOLT (TZ2) ANCHOR SS 5/8" DIAMETER  
 SEE NOTE 8 ON PAGE "GEN NOTES"  
 3 1/4" MINIMUM EMBEDMENT AT GRADE  
 4" MINIMUM EMBEDMENT AT ELEVATED SLABS

MINIMUM SLAB THICKNESS  
 SEE NOTE 7 ON  
 PAGE "GEN NOTES"

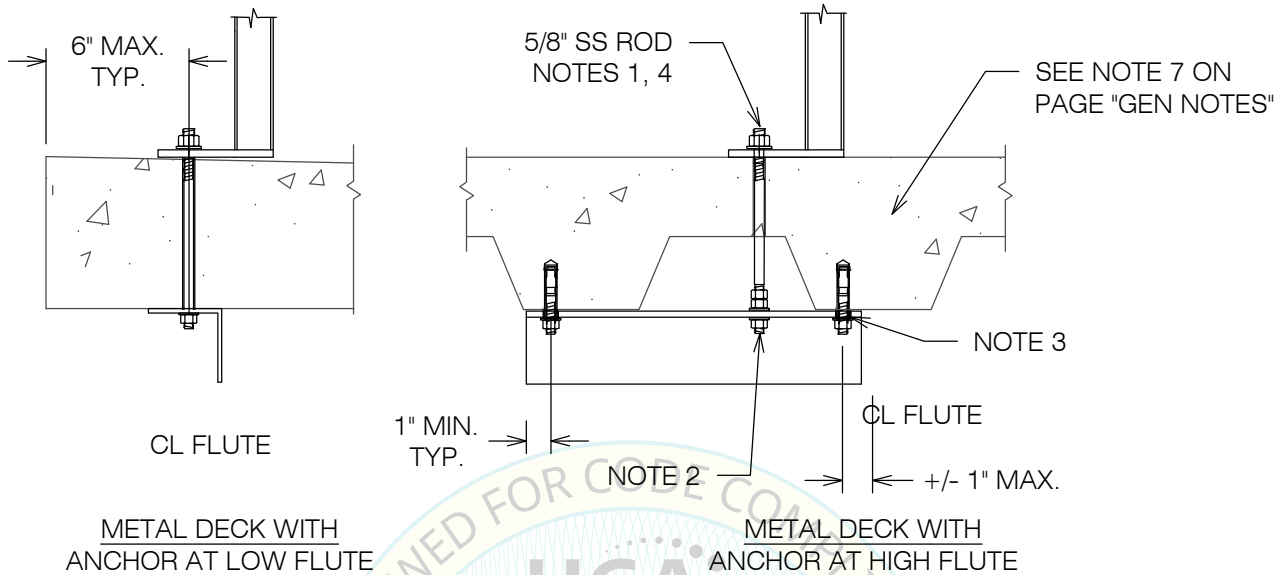


4" MINIMUM EDGE DISTANCE AT GRADE  
 16" MINIMUM EDGE DISTANCE AT ELEVATED SLAB

OPM-0520 BELIMED ELD AND WLD STEAM GENERATOR/EXCHANGER  
 EQUIPMENT ANCHORAGE AT SOLID CONCRETE SLAB AT GRADE OR ELEVATED

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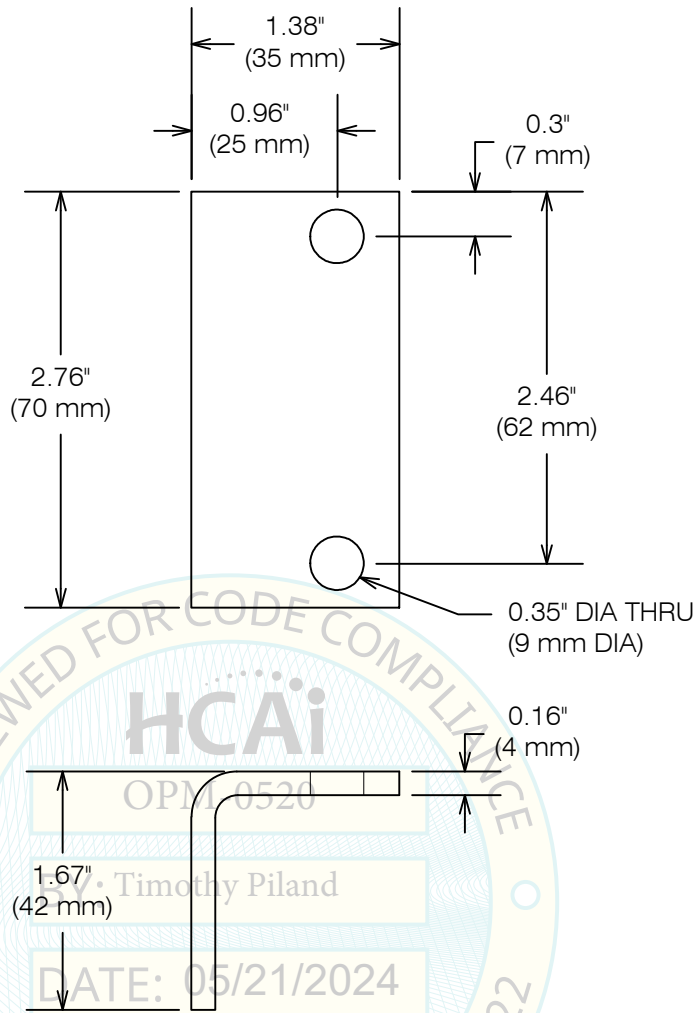
**NOTES:**

1. DRILL 11/16" HOLE IN THE CONCRETE SLAB TO RECEIVE THE 5/8" ASTM F593 CW1 304 (Fy = 31.2 KSI) STAINLESS STEEL RODS WITH MATCHING WASHERS AND NUTS.
2. SUPPLEMENTAL ANGLE SHALL BE L3x3x1/4 ASTM A36 (Fy = 36 KSI). DRILL 11/16" HOLES IN ANGLE FOR EQUIPMENT THRU BOLT. HEX NUT TOP AND BOTTOM OF FLANGE (TYP). WHERE NUT CANNOT BE INSTALLED ON TOP OF LEG, PROVIDE TAPPED HOLE THROUGH LEG WITH NUT ON BOTTOM.
3. DRILL 9/16" HOLE IN ANGLE FOR 2 ANCHORS. ANCHOR INTO BOTTOM OF SLAB SHALL BE HILTI KWIK BOLT TZZ 1/2", SEE NOTE 8 ON PAGE "GEN NOTES".
4. INSTALL ONLY 1 ANCHOR ROD IN EITHER OF THE AVAILABLE 2 HOLES IN BASEPLATE.

**OPM-0520 BELIMED ELD AND WTD STEAM GENERATOR/EXCHANGER  
ATTACHMENT DETAILS AT ELEVATED SLAB ON METAL DECK**

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OSHPD OPM - 0520 DWG - 21



PART NO. 000-364-511 EN 1.4301 (304 SS STAINLESS STEEL Fy = 28 KSI)

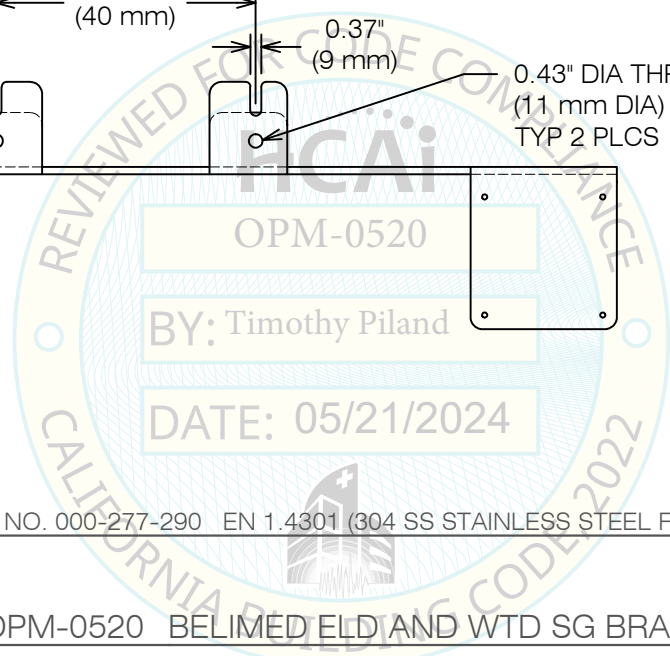
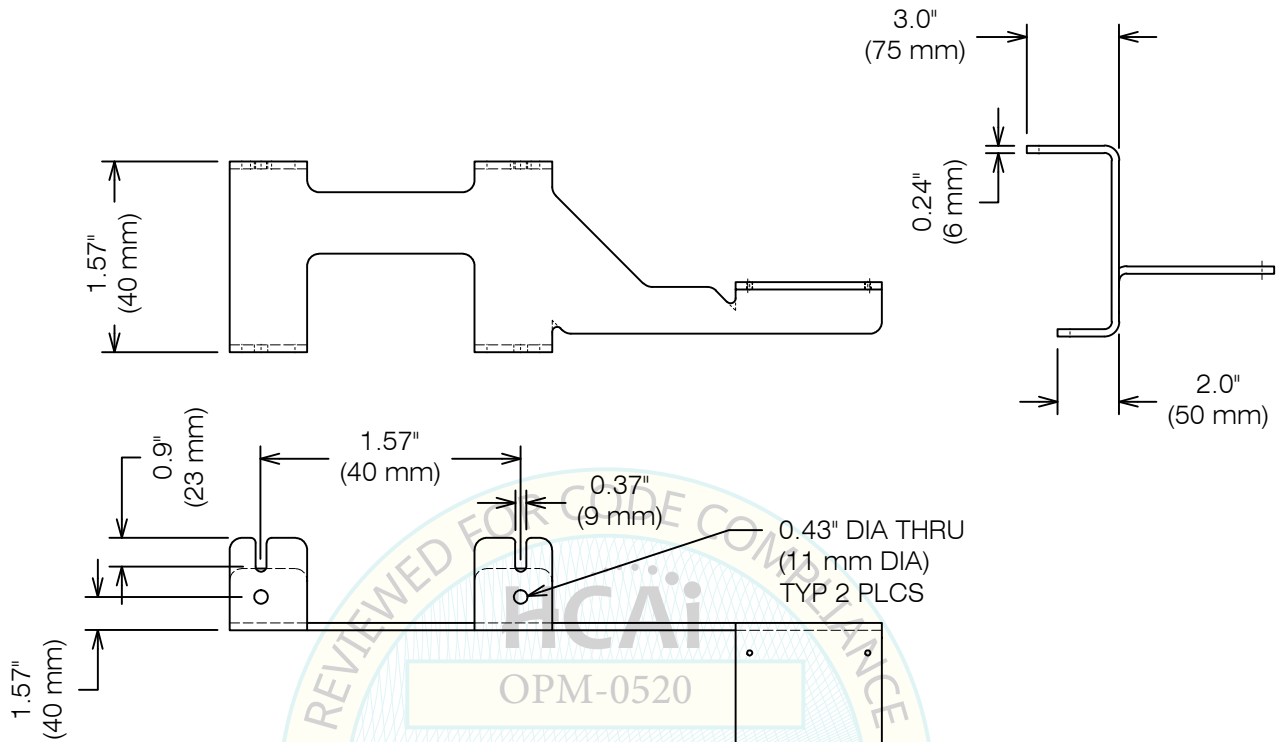
OPM-0520 BELIMED ELD AND WTD SWITCH BRACKET



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OSHPD OPM - 0520 DWG - 22

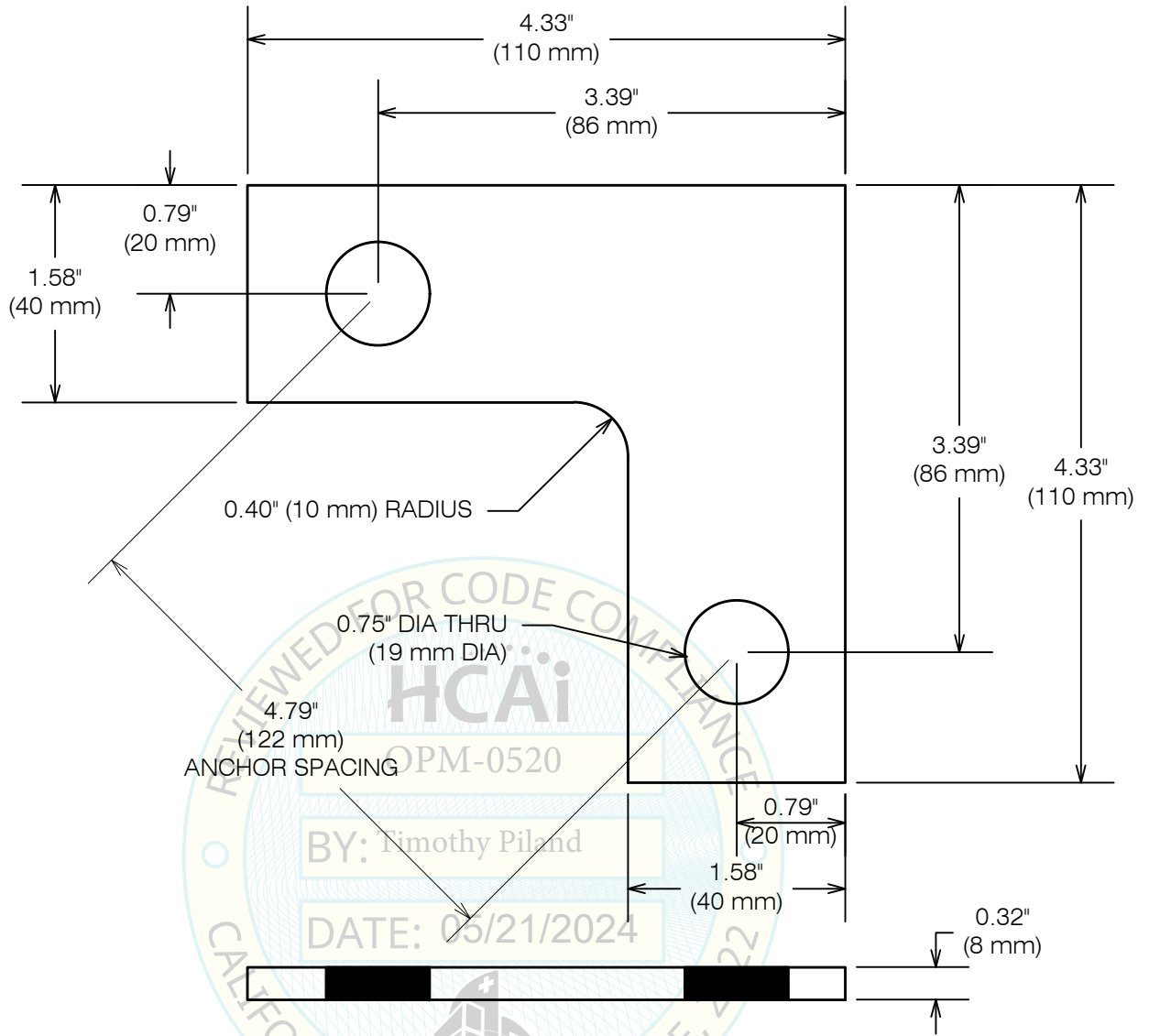


PART NO. 000-277-290 EN 1.4301 (304 SS STAINLESS STEEL Fy = 28 KSI)

OPM-0520 BELIMED ELD AND WTD SG BRACKET

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OSHPD OPM - 0520 DWG - 23



PART NO. 000-364-509 EN 1.4301 (304 SS STAINLESS STEEL Fy = 28 KSI)

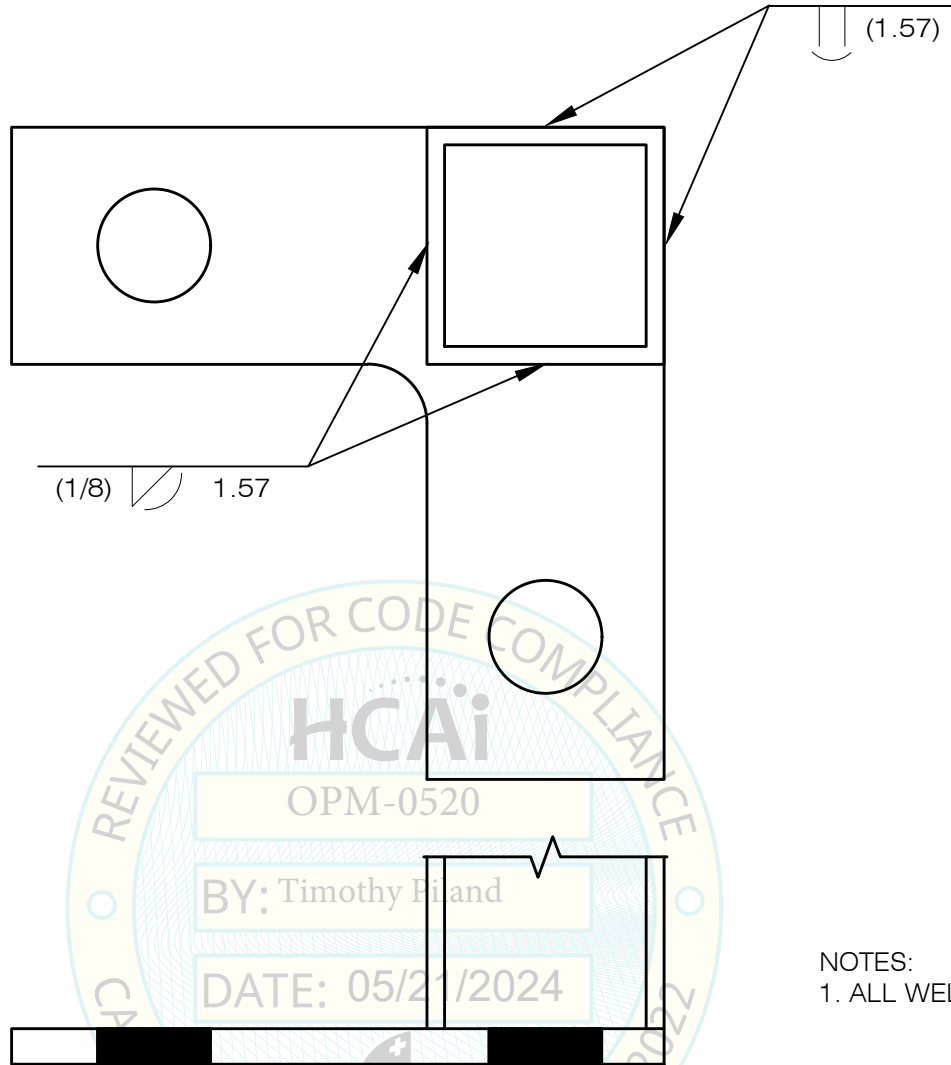
OPM-0520 BELIMED ELD AND WTD CORNER BRACKET



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OSHPD OPM - 0520 DWG - 24



NOTES:  
1. ALL WELDS BY BELIMED.

PART NO. 000-364-509 EN 1.4301 (304 SS STAINLESS STEEL Fy = 28 KSI)

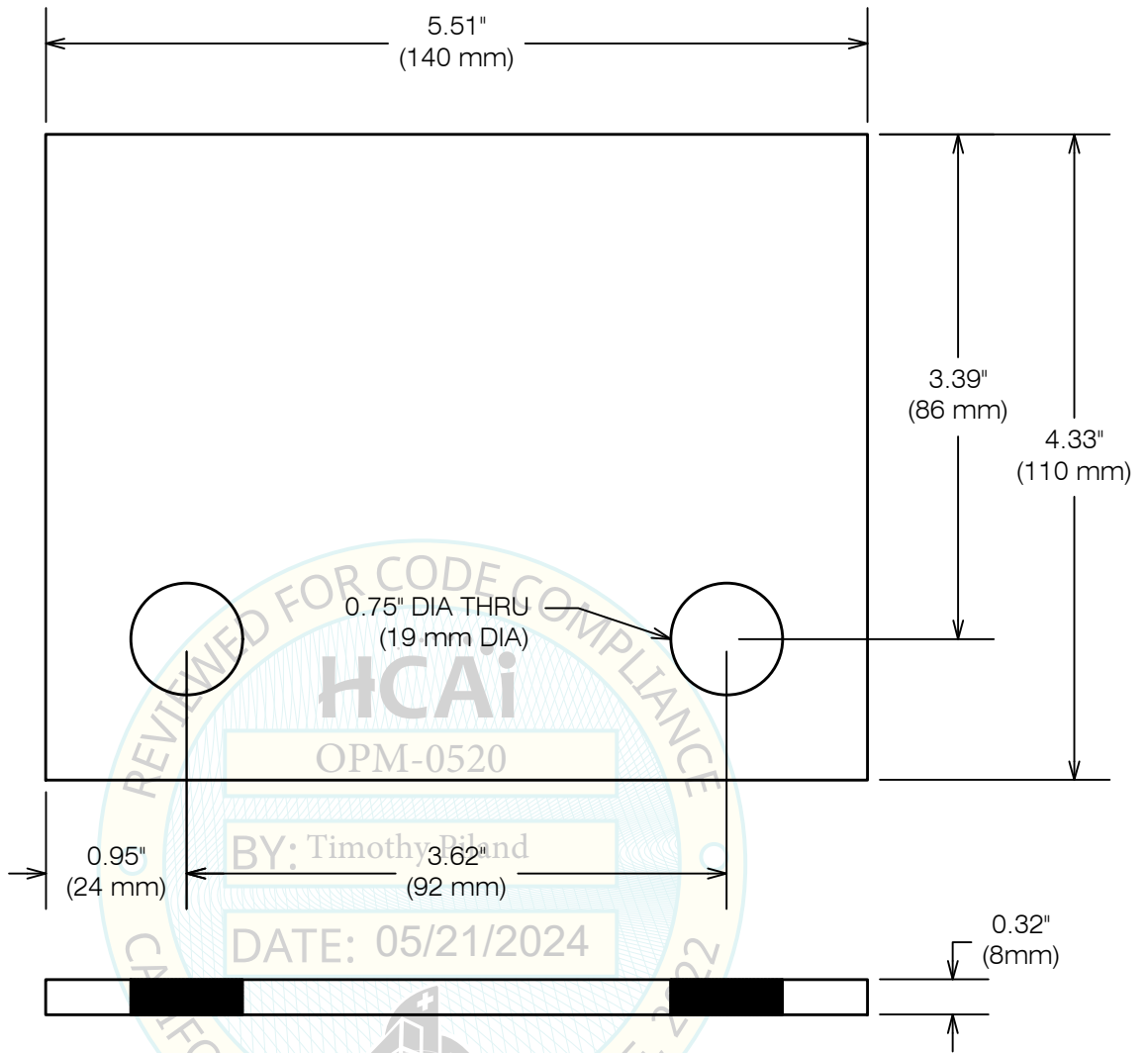
OPM-0520 BELIMED ELD AND WTD CORNER BRACKET WELD



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OSHPD OPM - 0520 DWG - 25



PART NO. 000-364-509 EN 1.4301 (304 SS STAINLESS STEEL Fy = 28 KSI)

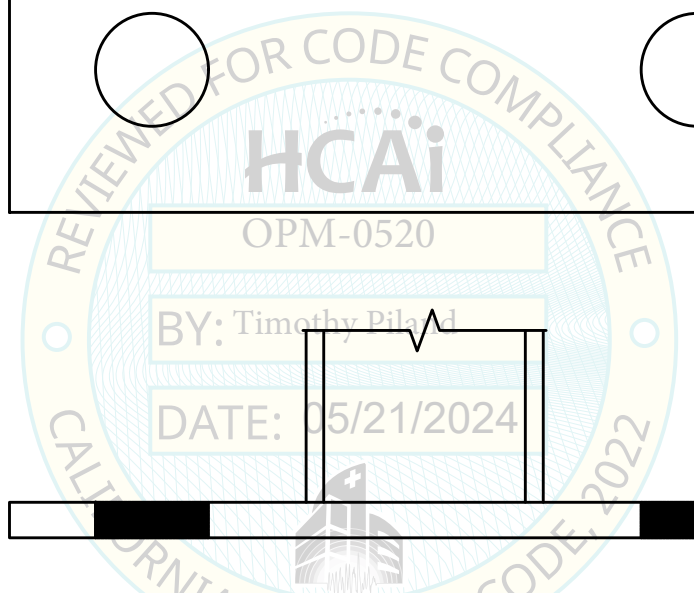
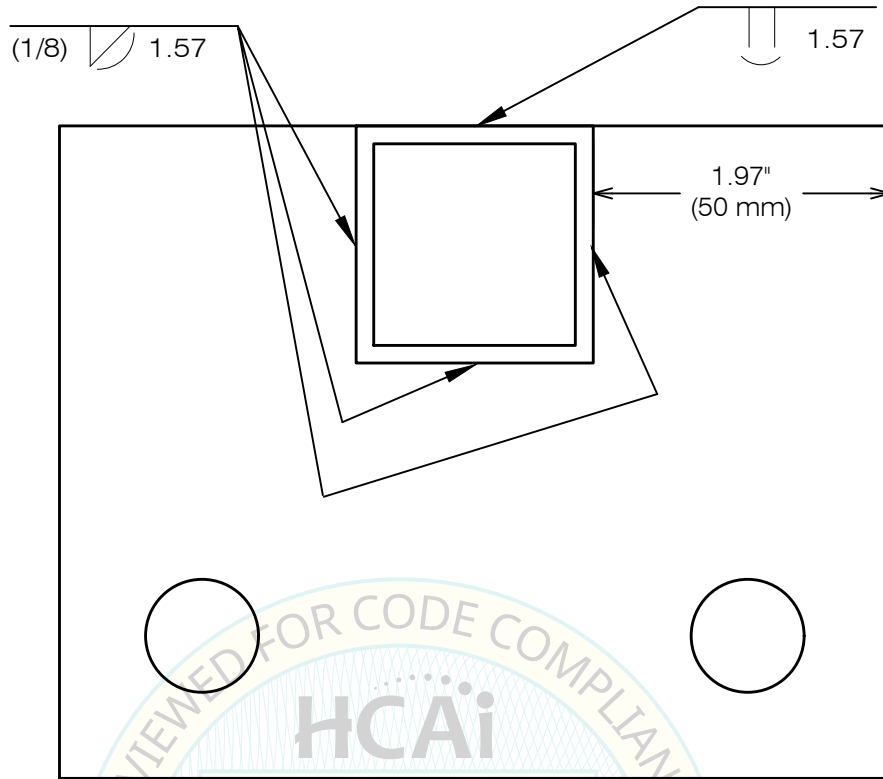
OPM-0520 BELIMED ELD AND WTD MIDDLE BRACKET



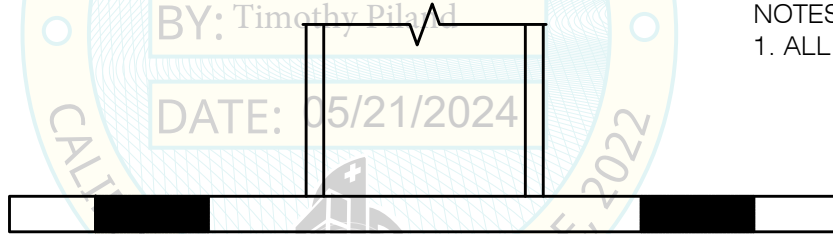
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	<b>REVISED BY:</b> ML <b>DATE:</b> 05/03/24 <b>REV NO:</b> 3	
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OSHPD OPM - 0520 DWG - 26



NOTES:  
1. ALL WELDS BY BELIMED.

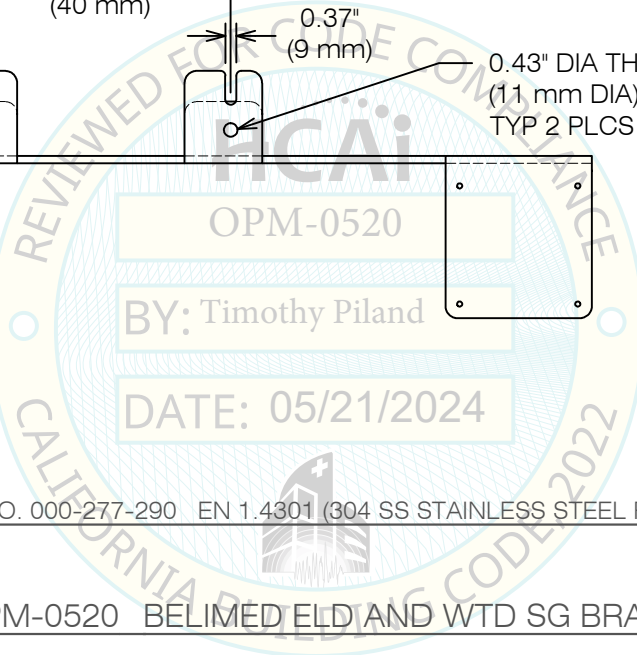
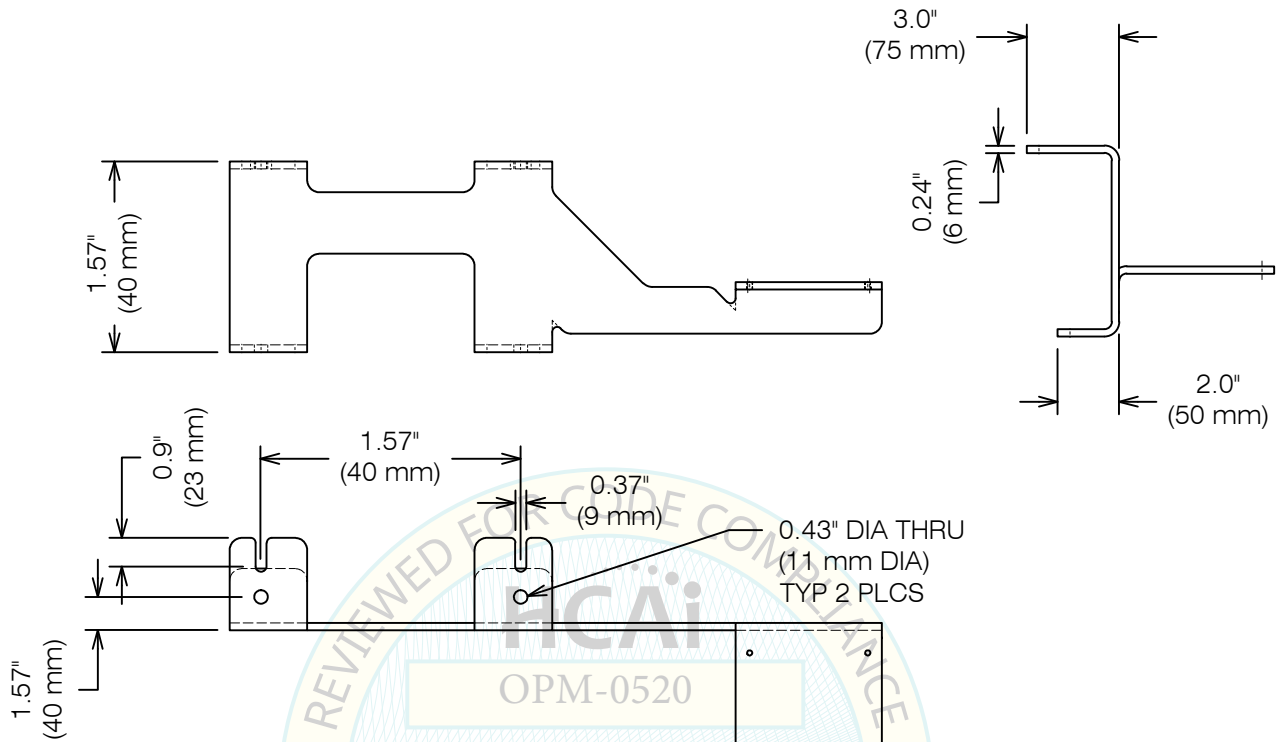


PART NO. 000-365-347 EN 1.4301 (304 SS STAINLESS STEEL Fy = 28 KSI)  
OPM-0520 BELIMED ELD AND WTD MIDDLE BRACKET WELD

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	<b>DRAWN BY:</b> WVJ <b>DATE:</b> 01/01/2021	
	<b>REVISED BY:</b> ML <b>DATE:</b> 05/03/24 <b>REV NO:</b> 3	
	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;"><b>SCALE</b> N.T.S.</td> <td style="width: 50%;"><b>PAGE</b> MW-BRACKET</td> </tr> </table>	<b>SCALE</b> N.T.S.
<b>SCALE</b> N.T.S.	<b>PAGE</b> MW-BRACKET	

OSHPD OPM - 0520 DWG - 27





OPM-0520

BY: Timothy Piland

DATE: 05/21/2024

PART NO. 000-277-290 EN 1.4301 (304 SS STAINLESS STEEL Fy = 28 KSI)

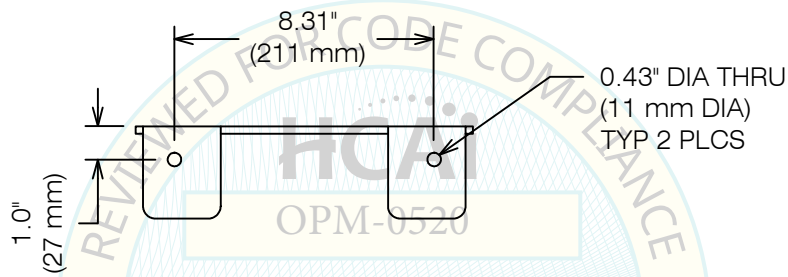
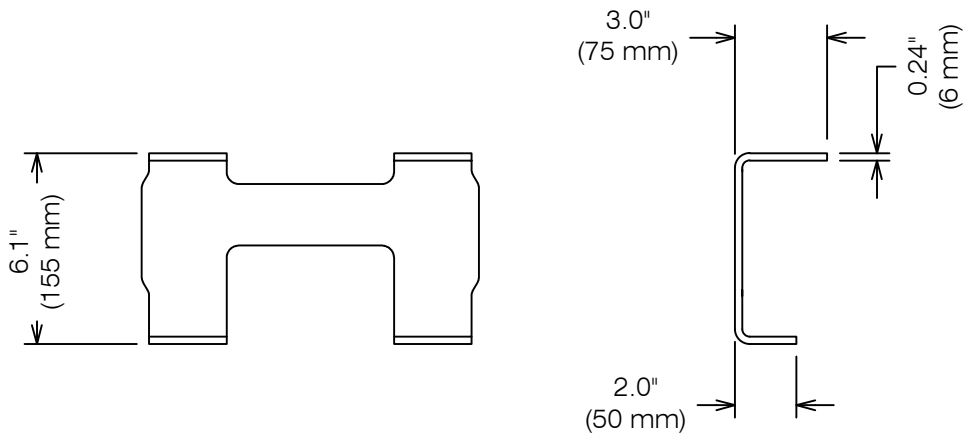
OPM-0520 BELIMED ELD AND WTD SG BRACKET



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	<b>SCALE</b> N.T.S.	<b>PAGE</b> SG1 BRACKET

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PART NO. 000-264-628 EN 1.4301 (304 SS STAINLESS STEEL Fy = 28 KSI)

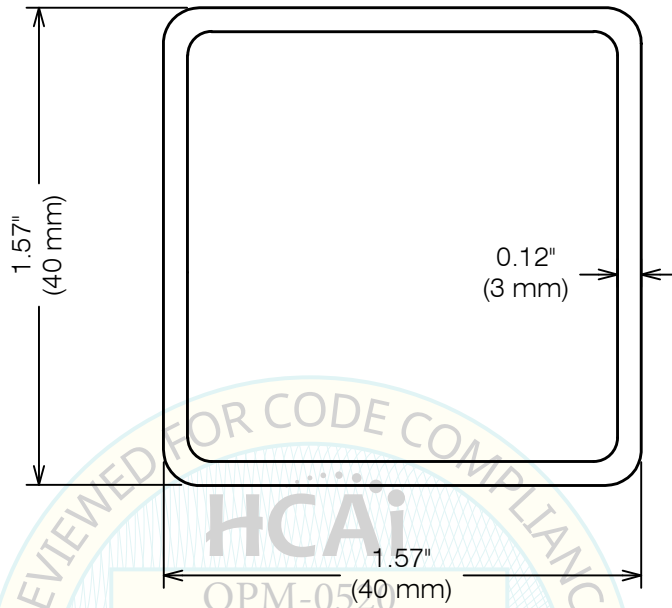
OPM-0520 BELIMED ELD AND WTD SG BRACKET



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	<b>SCALE</b> N.T.S.	<b>PAGE</b> SG2 BRACKET

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SEE PAGE "PART NUMBER" FOR INDIVIDUAL PART NUMBERS

DATE: 05/21/2024  
 AREA = 0.688 in<sup>2</sup>  
 ELASTIC SECTION MODULUS = 0.311 in<sup>3</sup>  
 MOMENT OF INERTIA = 0.245 in<sup>4</sup>

OPM-0520 BELIMED ELD AND WTD HSS



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	<b>SCALE</b> N.T.S.	<b>PAGE</b> HSS

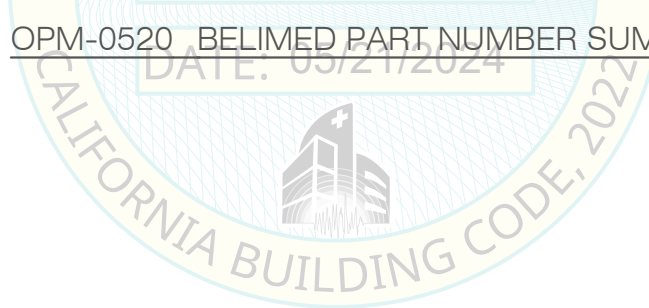
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**BELIMED ELD/WTD STEAM GENERATOR/STEAM EXCHANGER PART NUMBERS**

PART NO	DESCRIPTION	MATERIAL SPECIFICATION	YIELD STRENGTH	THICKNESS
000-364-511	SWITCH BRACKET, 2 HOLE	EN 1.4301	28 KSI	0.16 in
000-364-656	SWITCH BRACKET, 1 HOLE	EN 1.4301	28 KSI	0.16 in
000-364-509	CORNER ANCHOR BRACKET	EN 1.4301	28 KSI	0.32 in
000-365-347	MIDDLE ANCHOR BRACKET	EN 1.4301	28 KSI	0.32 in
000-277-290	SG BRACKET 1	EN 1.4301	28 KSI	0.24 in
000-264-628	SG BRACKET 2	EN 1.4301	28 KSI	0.24 in
000-364-461	40x40x167	EN 1.4301	28 KSI	0.12 in
000-364-462	40x40x1230	EN 1.4301	28 KSI	0.12 in
000-364-460	40x40x705	EN 1.4301	28 KSI	0.12 in
000-364-622	40x40x855	EN 1.4301	28 KSI	0.12 in
000-364-641	40x40x1560	EN 1.4301	28 KSI	0.12 in
000-364-652	40x40x750	EN 1.4301	28 KSI	0.12 in
000-365-396	40x40x822.5	EN 1.4301	28 KSI	0.12 in
000-365-411	40x40x833.5	EN 1.4301	28 KSI	0.12 in

OPM-0520 BELIMED PART NUMBER SUMMARY

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		<b>REV NO:</b> 3
<b>SCALE</b> N.T.S.	<b>PAGE</b> PART NO	

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