



**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-0635

HCAI Preapproval of Manufacturer's Certification (OPM)

Type: New Renewal/Update

Manufacturer Information

Manufacturer: Roche Diagnostics Corporation

Manufacturer's Technical Representative: Paul Ozog

Mailing Address: 9115 Hague Road, Indianapolis, IN 46256

Telephone: (248) 941-7467

Email: paul.ozog@roche.com

Product Information

Product Name: ROCHE COBAS PRO INTEGRATED SOLUTIONS SYSTEM

Product Type: Medical Analyzers

Product Model Number: cobas Pro

General Description: Chemistry & Immunochemistry Testing

Applicant Information

Applicant Company Name: Roche Diagnostics Corporation

Contact Person: Paul Ozog

Mailing Address: 9115 Hague Road, Indianapolis, IN 46256

Telephone: (248) 941-7467

Email: paul.ozog@roche.com

Title: Senior Regional System Support Engineer

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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY





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

Registered Design Professional Preparing Engineering Recommendations

Company Name: CYS STRUCTURAL ENGINEERS, INC.

Name: Dieter Siebald California License Number: S4346

Mailing Address: 2710 Gateway Oaks Drive, Suite 190N, Sacramento, CA 95833

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

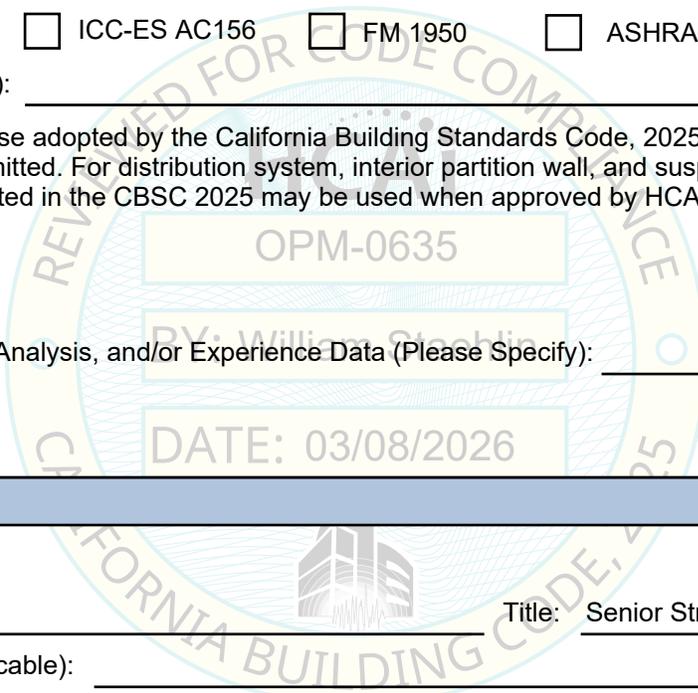
Certification Method

Testing in accordance with: ICC-ES AC156 FM 1950 ASHRAE 171 FEMA 461

Other(s) (Please Specify): _____

*Use of criteria other than those adopted by the California Building Standards Code, 2025 (CBSC 2025) 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 2025 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: 3/8/2026

Name: William Staehlin Title: Senior Structural Engineer

Condition of Approval (if applicable): _____

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OPM-0635

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NOTES:

1. THESE DRAWINGS ARE PREPARED FOR ROCHE DIAGNOSTICS CORPORATION, INDIANAPOLIS, INDIANA.
2. THE CONTRACTOR AND INSPECTOR OF RECORD SHALL OBTAIN A COPY OF THIS PRE-APPROVAL FROM THE OFFICE OF STATEWIDE HEALTH PLANNING & DEVELOPMENT (OSHDP) PRE-APPROVAL PROGRAMS WEBSITE.
3. THIS PRE-APPROVAL COVERS THE SUPPORTS AND ATTACHMENTS OF THE UNIT TO THE SUPPORTING STRUCTURE. THE EQUIPMENT UNITS ARE SUPPLIED BY ROCHE. THE SEISMIC BRACKETS SHOWN ON PAGES 18, 19, 20, 24, 64 & 65 ARE SUPPLIED BY ROCHE AND INSTALLED BY THE SITE CONTRACTOR. THE EXPANSION ANCHORS & STRUT PLATES SHOWN ON PAGES 21, 22 & 23 ARE SUPPLIED AND INSTALLED BY THE SITE CONTRACTOR.
4. ALLOWABLE TOLERANCE FOR BRACKETS IS +1/16".



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CYS STRUCTURAL ENGINEERS, INC.

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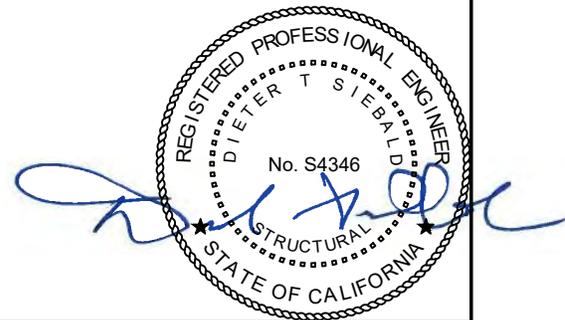
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GENERAL NOTES:

1. THIS OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2025. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2025.
2. EQUIP ANCHORAGES SUCH AS EXPANSION ANCHORS, BOLTS, SCREWS & FITTINGS SHALL BE DESIGNED IN COMPLIANCE W/ THE FORCE LEVEL REQUIREMENTS OF THE CBC 2025, TITLE 24, PART 2, VOLUME 2. LOAD COMBINATION FOR LOAD & RESISTANCE FACTOR DESIGN (LRFD) SHALL BE USED.
3. IT IS THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD (SEOR) FOR A SITE SPECIFIC PROJECT TO VERIFY:
 - A. THE ADEQUACY OF THE (N) OR (E) STRUCTURE TO RESIST THE FORCES AND WT SPECIFIED FOR EA EQUIP IN ADDITION TO ALL OTHER LOADS. PROVIDE & DESIGN SUPPLEMENTARY MEMBERS AS REQ.
 - B. THAT THE (N) ANCHORS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPGS. SEE TABLE 1 ON PG 3.
 - C. THAT THE (N) ANCHORS ARE LOCATED AT LEAST 18" AWAY FROM ADJ (E) ANCHORS OR THE SEOR SHALL EVALUATE THE ANCHORAGES FOR THE EQUIP IN THIS OPM FOR ADVERSE AFFECTS OF ADJ ANCHORS. THE SPACING SHOWN IN TABLE 1 ON PG 3, IS THE REQ MIN SPACING OF THE 1/2" DIA AB'S. THE REQ SPACING FROM ANCHORS OF OTHER DIA & EMBEDMENTS WILL VARY & SHALL BE EVALUATED BY THE SEOR.
 - D. THAT THE INSTALLATION IS IN CONFORMANCE W/ THE CBC 2025 AND W/ THE DTLS SHOWN IN THIS PRE-APPROVAL.
 - E. THAT THE ACTUAL EQUIP'S WT, CENTER OF GRAVITY (CG) LOCATION, ANCHOR LOCATIONS, ANCHOR DTLS, & THE MATERIAL & GA OF THE EQUIP WHERE ATTACHMENTS ARE MADE, AGREE W/ THE INFO SHOWN IN THIS PRE-APPROVAL.
 - F. THAT THE CONC SLAB TO WHICH THE EQUIP IS ANCHORED SHALL MEET THE REQUIREMENTS OF THE APPLICABLE ICC REPORT & THIS OPM.
4. EXPANSION ANCHORS INSTALLED IN NWC OR SLWC SHALL BE CARBON STEEL HILTI KWIK BOLT TZ2 EXPANSION ANCHORS COMPLYING W/ ESR-4266 MOST RECENT EDITION.
 - A. INSTALLATION: INSTALL THE EXPANSION ANCHORS IN ACCORDANCE W/ THE REQUIREMENTS GIVEN IN THE ICC EVALUATION REPORT FOR THE SPECIFIC ANCHOR AND THE PARAMETERS GIVEN IN THE TABLE ON PG 3.
 - B. JOB TESTING: FOR VERIFYING SATISFACTORY INSTALLATION WORKMANSHIP, PERFORM JOB SITE TESTING IN ACCORDANCE W/ THE TEST 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 TORQUE IN THE ANCHOR SUCH AS CALIBRATED SPRING LOADING DEVICES OR CALIBRATED TORQUE WRENCH METHOD. REPORT OF TEST RESULTS SHALL BE SUBMITTED TO OSHPD. 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 EQUIP INSTALLATION. ALSO REFER TO CBC 2025 1910A.5 "TESTS FOR POST-INSTALLED ANCHORS IN CONCRETE".



SHEET TITLE: GENERAL NOTES

| | | |
|---|--------------------------------------|--|
|  CYS STRUCTURAL ENGINEERS, INC. 2710 GATEWAY OAKS DRIVE, SUITE 190N SACRAMENTO, CA 95833 | TEL (916) 920-2020 www.cyseng.com | Job No: 24047 Date: 02/18/2026 Page: 2 of 65 |
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GENERAL NOTES: (CONTINUED)

4C. FAILURE/ACCEPTANCE CRITERIA: THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:

- TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS: WEDGE TYPE:
ONE-HALF (½) TURN OF THE NUT.

D. ANCHOR REQUIREMENTS:

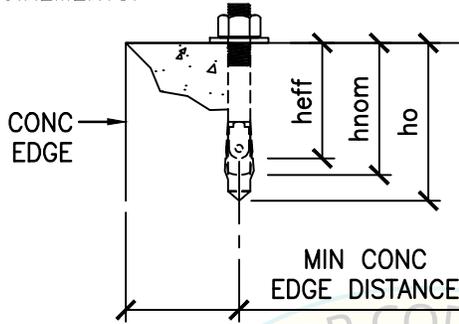


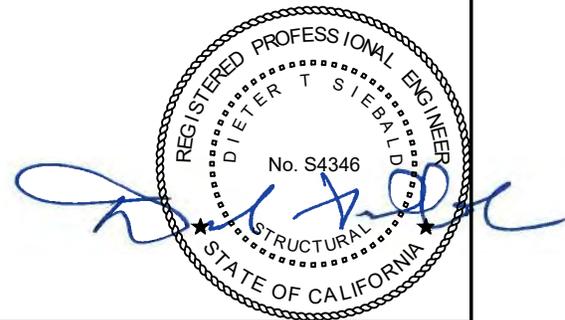
TABLE 1

| CONDITION OF ANCHORAGE (*) | ANCHOR DIA (INCH) da | INSTALLATION EMBED (INCH) h _{nom} | EFFECTIVE EMBED (INCH) h _{eff} | HOLE DEPTH (INCH) h _o | MIN CONC THICKNESS (INCH) h _{min} | MIN CONC EDGE DISTANCE (INCH) | MIN AB SPACING (INCH) | TEST TORQUE (FT-LBS) |
|----------------------------|----------------------|--|---|----------------------------------|--|-------------------------------|-----------------------|----------------------|
| CASE 2 | ½ | 2½ | 2 | 2¾ | 4 | 12 | 4.5 | 50 |
| CASE 3 | ½ | 2½ | 2 | 2¾ | 3¼ | 12 | 4.5 | 50 |

(*) FOR CASE DEFINITION, SEE PG 4.

1. BOLTS THROUGH CONC ON MTL DECK:

- BOLTS SHALL BE TORQUED BY ¾ TURN OF THE NUTS AFTER SNUG TIGHT CONDITION IS ACHIEVED, UNO. THE SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS REQ TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.
- THRU-BOLT HOLES SHALL BE ¼" LARGER THAN BOLT SIZE (HOLE SIZE = BOLT SIZE + ¼").
- THRU-BOLTS IN CONC SHALL RECEIVE SPECIAL INSPECTION & TESTING IN ACCORDANCE W/ REQUIREMENTS FOR POST-INSTALLED ANCHORS. THRU-BOLTS W/ STL TO STL CONN IN TENSION DO NOT REQ TESTING.



SHEET TITLE: GENERAL NOTES (CONTINUED)

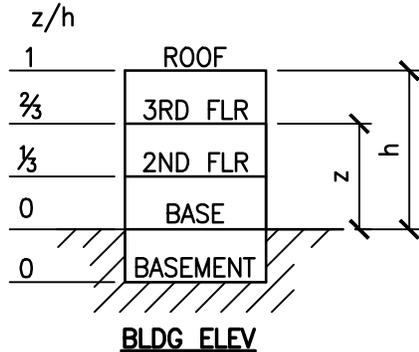
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GENERAL NOTES: (CONTINUED)

6. TWO (2) CASES OF ATTACHMENT ARE SPECIFIED AND PRESENTED IN THIS PRE-APPROVAL:



CASE 1: ATTACHMENT DTLs FOR THRU-BOLTS LOCATED AT UPPER FLRS ABV THE BASE OF A BLDG ($z/h \leq 0.95$), THE FLRS ARE ASSUMED TO BE BUILT OF A MIN 3/4" SLWC TOPPING OVER MTL DECK ($f'c = 3000$ PSI, MIN).

CASE 2: ATTACHMENT DTLs FOR ABs INTO CONC SLAB LOCATED AT OR BLW THE BASE OF A BLDG ($z/h=0$). THE FLRS ARE ASSUMED TO BE BUILT OF A MIN 4" NWC SLAB ($f'c = 3000$ PSI, MIN).

CASE 3: ATTACHMENT DTLs FOR ABs INTO CONC FILL LOCATED AT UPPER FLRS ABV THE BASE OF A BLDG ($z/h \leq 0.33$), THE FLRS ARE ASSUMED TO BE BUILT OF A MIN 3/4" SLWC TOPPING OVER MTL DECK ($f'c = 3000$ PSI, MIN).

ABBREVIATIONS:

| | |
|----------------|---|
| AB | ANCHOR BOLT |
| ABV | ABOVE |
| ADJ | ADJACENT |
| ASTM | AMERICAN SOCIETY FOR TESTING & MATERIALS |
| BLDG | BUILDING |
| BLW | BELOW |
| BOTT | BOTTOM |
| CBC | CALIFORNIA BUILDING CODE |
| CG | CENTER OF GRAVITY |
| CL | CENTERLINE |
| CONC | CONCRETE |
| CONN | CONNECTION |
| COORD | COORDINATE |
| DBL | DOUBLE |
| DTL | DETAIL |
| DIA (ϕ) | DIAMETER |
| (E) | EXISTING CONDITION |
| EA | EACH |
| ELEV | ELEVATION |
| EQUIP | EQUIPMENT |
| $f'c$ | MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE |
| FLR | FLOOR |
| FT (') | FOOT/FEET |
| F_p | HORIZONTAL SEISMIC FORCE PER ASCE 7-16 SEISMIC FORCE REQUIREMENTS |

| | |
|---------|---|
| F_v | VERTICAL SEISMIC FORCE PER ASCE 7-16 SEISMIC FORCE REQUIREMENTS |
| F_y | SPECIFIED MINIMUM YIELD STRESS OF STEEL |
| GA | GAUGE |
| IN (") | INCH |
| INFO | INFORMATION |
| KSI | KIPS PER SQUARE INCH |
| LBS | POUNDS |
| LRFD | LOAD AND RESISTANCE FACTOR DESIGN |
| MAX | MAXIMUM |
| MFR | MANUFACTURER |
| MIN | MINIMUM |
| MTL | METAL |
| (N) | NEW CONDITION |
| NO. (#) | NUMBER OR POUNDS |
| NWC | NORMAL WEIGHT CONCRETE |
| OPG | OPENING |

| | |
|-------|---|
| PG(S) | PAGE(S) |
| P | PLATE |
| PSI | POUNDS PER SQUARE INCH |
| REQ | REQUIRED |
| SEOR | STRUCTURAL ENGINEER OF RECORD |
| SLWC | SAND-LIGHTWEIGHT CONCRETE |
| Tu | ANCHORAGE TENSION REACTION DUE TO SEISMIC FORCE |
| THRD | THREAD OR THREADED |
| TYP | TYPICAL |
| T&B | TOP & BOTTOM |
| UNO | UNLESS NOTED OTHERWISE |
| Vu | ANCHORAGE SHEAR REACTION DUE TO SEISMIC FORCE |
| W/ | WITH |
| Wp | OPERATING WEIGHT |
| WT | WEIGHT |



SHEET TITLE: SYSTEM OVERVIEW & DESIGN CRITERIA

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DESIGN CRITERIA & SEISMIC DESIGN FORCES (LRFD)

- $C_{PM} = F_p/W_p = 0.4 S_{DS} I_p \left[\frac{H_f}{R_{\mu}} \right] \left[\frac{C_{AR}}{R_{po}} \right]$ ASCE 7-22 (13.3-1)
- $C_{PM} = F_p/W_p$ (MAX) = 1.6 $S_{DS} I_p$ ASCE 7-22 (13.3-2)
- $C_{PM} = F_p/W_p$ (MIN) = 0.3 $S_{DS} I_p$ ASCE 7-22 (13.3-3)
- $C_{VM} = F_v/W_p = \pm 0.2 S_{DS}$ ASCE 7-22 (12.4-4a)
- $H_{f_{MIN}} = 1.0$ AT OR BELOW GRADE PLANE
- $H_{f_{MAX}} = 1+2.5 (z/h) = 3.375$ ABOVE GRADE $z/h = 0.95$
- $R_{\mu_{MIN}} = 1.0$ AT OR BELOW GRADE PLANE
- $R_{\mu_{MIN}} = 1.3$ ABOVE GRADE FOR UNSPECIFIED BUILDING SFERS
- $[H_f/R_{\mu}]_{MAX} = 2.60$ ABOVE GRADE $z/h = 0.95$
- $[H_f/R_{\mu}]_{MIN} = 1.00$ AT OR BELOW GRADE PLANE

SUPPORT & ATTACHMENT DESIGN IS PER 2025 CBC AT LRFD LEVEL FORCES PER TABLE 13.6-1 OF ASCE 7-22. "OTHER MECHANICAL OR ELECTRICAL COMPONENTS"

- $C_{AR} = 1.0$
- $R_{po} = 1.5$
- $I_p = 1.5$
- $\Omega_{op} = 2.0$
- $W_p =$ AS NOTED ON "COMPONENT PLANS & ELEVATIONS" PAGES

THEREFORE,
 $F_p = 0.4 S_{DS} 1.5 W_p (1.0/1.0)(1.0/1.5) = 0.4 S_{DS} W_p$ AT OR BELOW GRADE PLANE
 MIN $F_p = 0.3 S_{DS} 1.5 W_p = 0.45 S_{DS} W_p$ GOVERNS AT OR BELOW GRADE PLANE
 $F_p = 0.4 S_{DS} 1.5 W_p (3.375/1.3)(1.0/1.5) = 1.04 S_{DS} W_p$ AT $z/h = 0.95$

TABLE 2 (LRFD)

| | S_{DS} | H_f | $C_{PM} = F_p/W_p$ | $C_{VM} = F_v/W_p$ | GRADE LEVEL |
|--------|----------|-------|--------------------|--------------------|-------------|
| CASE 1 | 1.506 | 3.375 | 1.564 | 0.301 | ABOVE GRADE |
| CASE 2 | 1.275 | 1.00 | 0.574 | 0.255 | AT GRADE |
| CASE 3 | 0.700 | 1.825 | 0.393 | 0.140 | ABOVE GRADE |
| CASE 3 | 0.87 | 1.00 | 0.392 | 0.174 | AT GRADE |

TABLE NOTES:

- FOR CASE 1, IT IS RECOMMENDED TO TRANSITION TO CASE 3 TYPE ANCHORAGE WHERE S_{DS} & H_f ARE \leq THE VALUES NOTES FOR CASE 3 IN THE TABLE.
- SINCE THE MIN C_{pm} EQUATION GOVERNS FOR SMALL H_f VALUES, IT IS PERMITTED TO USE AN H_f OF UP TO 1.46 FOR CASES THAT ARE LABELED "AT GRADE".

LOAD COMBINATIONS

- $(1.2 + 0.2 S_{DS}) D + 1.0E$ ASCE 2.3.6
- $(0.9 - 0.2 S_{DS}) D + 1.0E$ ASCE 2.3.6

LOAD COMBINATIONS W/ OVERSTRENGTH (USE FOR ATTACHMENT TO CONCRETE)

- $(1.2 + 0.2 S_{DS}) D + \Omega_{op}E$ ASCE 12.4.3
- $(0.9 - 0.2 S_{DS}) D + \Omega_{op}E$ ASCE 12.4.3



SHEET TITLE: ABBREVIATIONS & DESIGN CRITERIA



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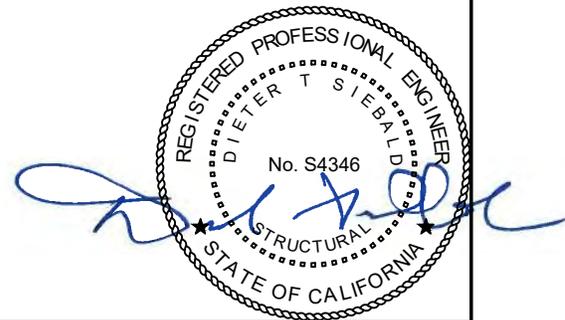


SYSTEM OVERVIEW & CONFIGURATIONS

- THE cobas PRO INTEGRATED SOLUTIONS SYSTEM CONSISTS OF EIGHT MAJOR COMPONENTS THAT ARE ARRANGED IN FOUR DIFFERENT CONFIGURATIONS SHOWN ON THE FOLLOWING PGS:
 SAMPLE SUPPLY UNIT (SSU) – SAMPLES ARE LOADED AND UNLOADED FROM THE SYSTEM HERE.
 SAMPLE BUFFER (SB) – STORAGE BUFFER THAT FACILITATES SAMPLE RETRIEVAL FOR ADD-ON REQUESTS
 ANALYTICAL UNITS (AU) – UP TO THREE ANALYTICAL UNITS CAN MAKE UP A SYSTEM, THEY ARE:
 ION SELECTIVE ELECTRODE UNIT (ISE) – OPTIONAL UNIT FOR DETERMINATION OF ELECTROLYTES.
 cobas c503 – CLINICAL CHEMISTRY MODULE (MEDIUM THROUGHPUT)
 cobas e801 – IMMUNOASSAY MODULE
 ANALYTICAL UNIT CORE COMPONENTS – EA MODULE LISTED ABOVE HAS THE FOLLOWING CORE COMPONENTS:
 SAMPLE BUFFER LINE (SBL) – SAMPLE TRANSFER LINES WHICH INCLUDE:
 SBL-TL-c503: TRANSFER LINE (TL) – RACK TRANSFER LINE LOCATED BEHIND EVERY MODULE THAT IS NOT THE LAST MODULE.
 SBL-DL-c503 & SBL-DL-e801: DRIVE LINE (DL) – RACK DRIVE LINE LOCATED BEHIND THE LAST MODULE IN A GIVEN CONFIGURATION.
- SCHEMATIC OVERVIEW DWGS FOLLOW THAT SHOW THE NUMEROUS DIFFERENT COMBINATIONS.

FRACTION & UNIT CONVERSIONS

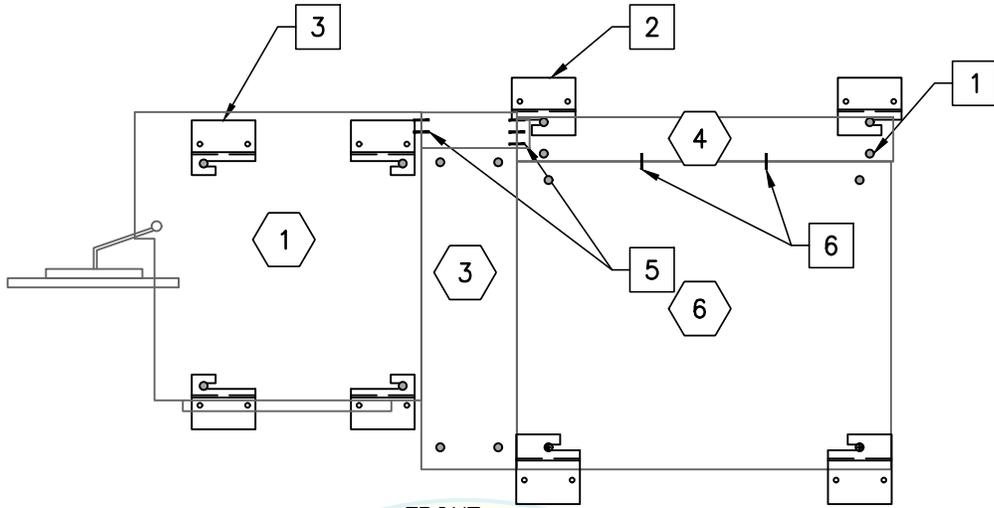
| FRACTION | DECIMAL | mm | FRACTION | DECIMAL | mm |
|----------|---------|------|----------|---------|------|
| 1/32 | 0.03 | 0.8 | 17/32 | 0.53 | 13.5 |
| 1/16 | 0.06 | 1.6 | 9/16 | 0.56 | 14.3 |
| 3/32 | 0.09 | 2.4 | 19/32 | 0.59 | 15.1 |
| 1/8 | 0.13 | 3.2 | 5/8 | 0.63 | 15.9 |
| 5/32 | 0.16 | 4.0 | 21/32 | 0.66 | 16.7 |
| 3/16 | 0.19 | 4.8 | 11/16 | 0.69 | 17.5 |
| 7/32 | 0.22 | 5.6 | 23/32 | 0.72 | 18.3 |
| 1/4 | 0.25 | 6.4 | 3/4 | 0.75 | 19.1 |
| 9/32 | 0.28 | 7.1 | 25/32 | 0.78 | 19.8 |
| 5/16 | 0.31 | 7.9 | 13/16 | 0.81 | 20.6 |
| 11/32 | 0.34 | 8.7 | 27/32 | 0.84 | 21.4 |
| 3/8 | 0.38 | 9.5 | 7/8 | 0.88 | 22.2 |
| 13/32 | 0.41 | 10.3 | 29/32 | 0.91 | 23.0 |
| 7/16 | 0.44 | 11.1 | 15/16 | 0.94 | 23.8 |
| 15/32 | 0.47 | 11.9 | 31/32 | 0.97 | 24.6 |
| 1/2 | 0.50 | 12.7 | | | |



SHEET TITLE: SYSTEM OVERVIEW & CONFIGURATIONS

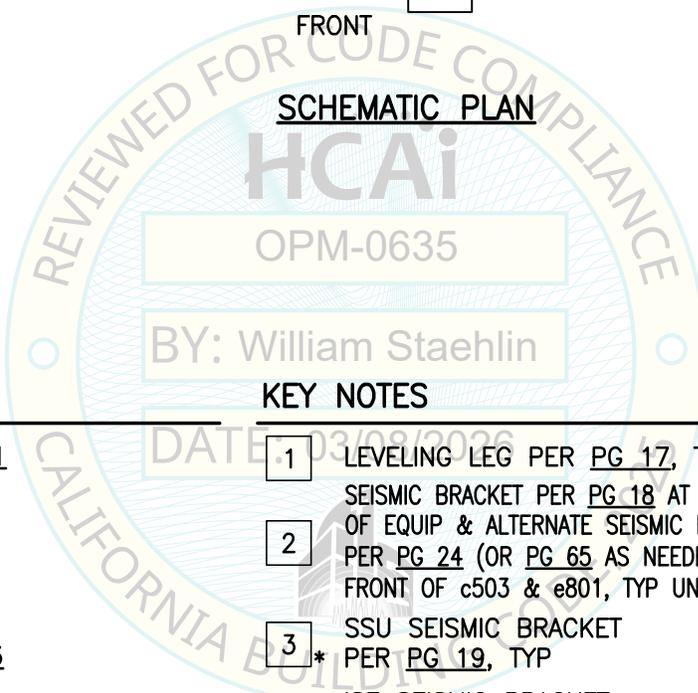
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FRONT

SCHEMATIC PLAN



COMPONENT:

KEY NOTES

- 1 SSU PER PG 11
- 2* ISE PER PG 14
- 3 SB PER PG 12
- 4 SBL PER PG 13
- 5* c503 PER PG 15
- 6 e801 PER PG 16

- 1 LEVELING LEG PER PG 17, TYP
SEISMIC BRACKET PER PG 18 AT REAR
OF EQUIP & ALTERNATE SEISMIC BRACKET
PER PG 24 (OR PG 65 AS NEEDED) AT
FRONT OF c503 & e801, TYP UNO
- 2
- 3 SSU SEISMIC BRACKET
* PER PG 19, TYP
- 4 ISE SEISMIC BRACKET
PER PG 20, TYP
- 5 M8x16mm SUS304 BOLT BY MFR
(REFER TO UNIT "PLAN &
ELEVATIONS" FOR LOCATIONS
- 6 M8x20mm SUS304 BOLT BY MFR
- 7 M4x6mm CS SCREW BY MFR

*NOT PART OF THIS CONFIGURATION

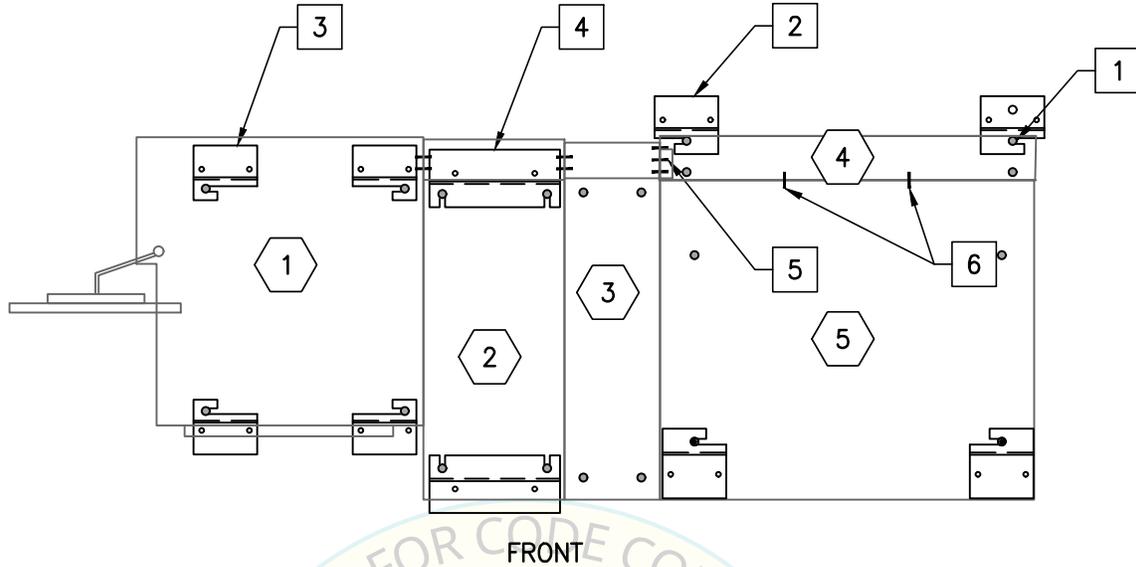


SHEET TITLE: SYSTEM CONFIGURATIONS
e801

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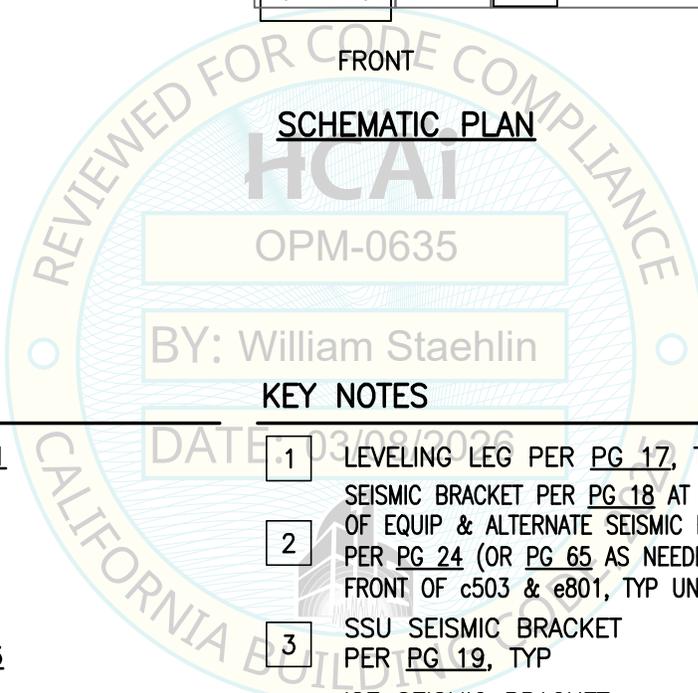
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FRONT

SCHEMATIC PLAN



COMPONENT:

KEY NOTES

- 1 SSU PER PG 11
- 2 ISE PER PG 14
- 3 SB PER PG 12
- 4 SBL PER PG 13
- 5 c503 PER PG 15
- 6* e801 PER PG 16

- 1 LEVELING LEG PER PG 17, TYP
SEISMIC BRACKET PER PG 18 AT REAR
OF EQUIP & ALTERNATE SEISMIC BRACKET
PER PG 24 (OR PG 65 AS NEEDED) AT
FRONT OF c503 & e801, TYP UNO
- 2 SSU SEISMIC BRACKET
PER PG 19, TYP
- 3 ISE SEISMIC BRACKET
PER PG 20, TYP
- 4 M8x16mm SUS304 BOLT BY MFR
(REFER TO UNIT "PLAN &
ELEVATIONS" FOR LOCATIONS
- 5 M8x20mm SUS304 BOLT BY MFR
- 6 M4x6mm CS SCREW BY MFR

*NOT PART OF THIS CONFIGURATION

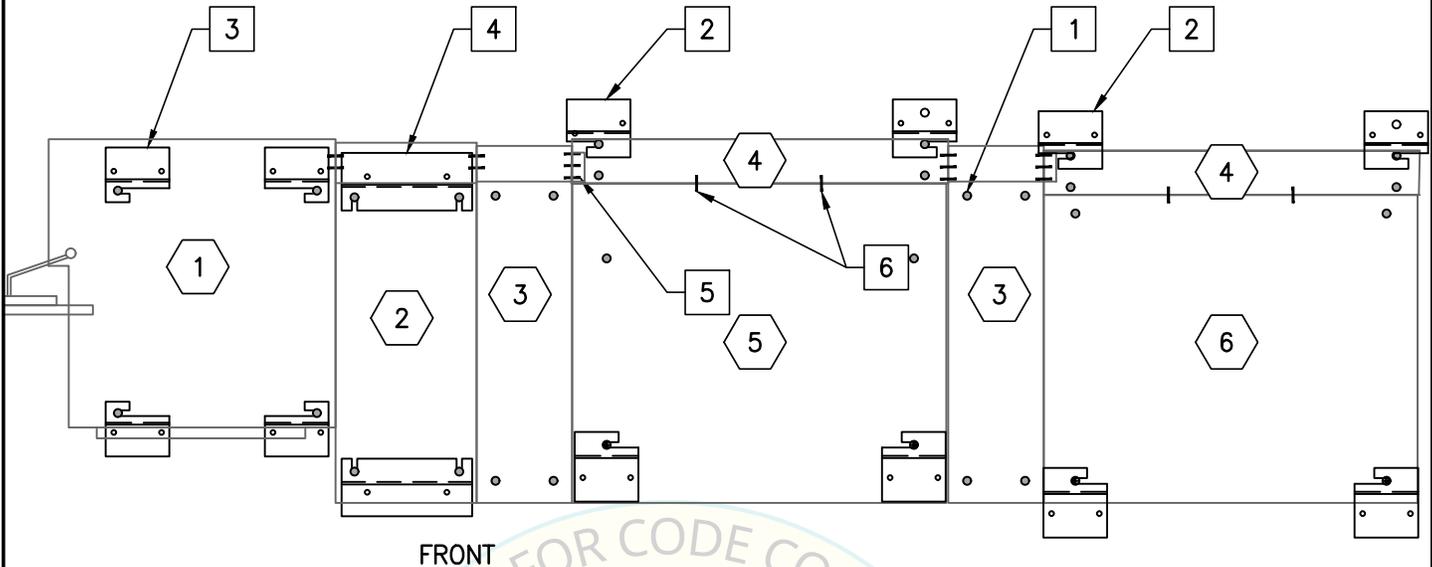


SHEET TITLE: SYSTEM CONFIGURATIONS
ISE + c503

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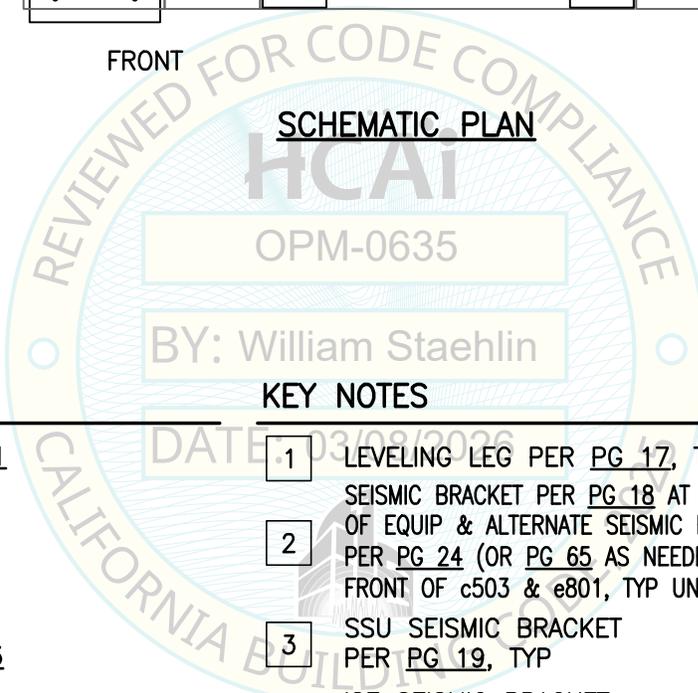
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FRONT

SCHEMATIC PLAN



COMPONENT:

KEY NOTES

- 1 SSU PER PG 11
- 2 ISE PER PG 14
- 3 SB PER PG 12
- 4 SBL PER PG 13
- 5 c503 PER PG 15
- 6 e801 PER PG 16

- 1 LEVELING LEG PER PG 17, TYP
SEISMIC BRACKET PER PG 18 AT REAR
OF EQUIP & ALTERNATE SEISMIC BRACKET
PER PG 24 (OR PG 65 AS NEEDED) AT
FRONT OF c503 & e801, TYP UNO
- 2 SSU SEISMIC BRACKET
PER PG 19, TYP
- 3 ISE SEISMIC BRACKET
PER PG 20, TYP
- 4 M8x16mm SUS304 BOLT BY MFR
(REFER TO UNIT "PLAN &
ELEVATIONS" FOR LOCATIONS
- 5 M8x20mm SUS304 BOLT BY MFR
- 6 M4x6mm CS SCREW BY MFR



SHEET TITLE: SYSTEM CONFIGURATIONS
ISE + c503 + e801



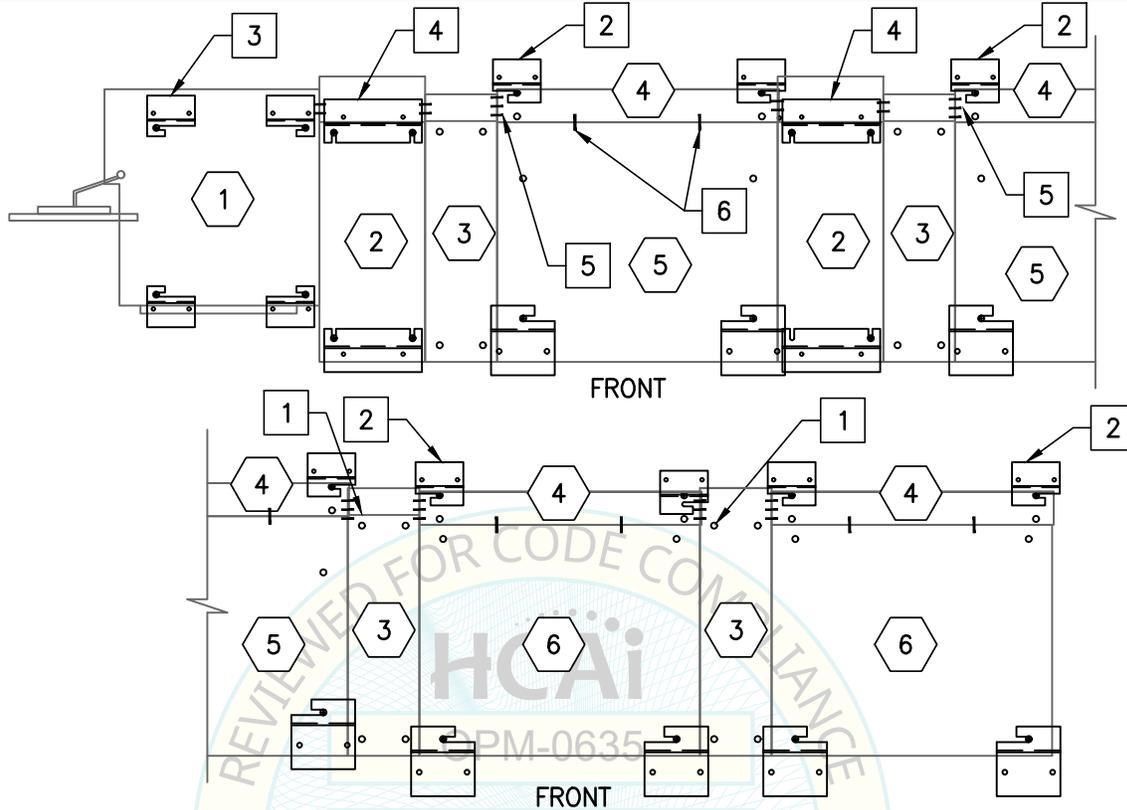
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SCHEMATIC PLAN

BY: William Staehlin

COMPONENT:

KEY NOTES

- 1 SSU PER PG 11
- 2 ISE PER PG 14
- 3 SB PER PG 12
- 4 SBL PER PG 13
- 5 c503 PER PG 15
- 6 e801 PER PG 16

- 1 LEVELING LEG PER PG 17, TYP
SEISMIC BRACKET PER PG 18 AT REAR
OF EQUIP & ALTERNATE SEISMIC BRACKET
PER PG 24 (OR PG 65 AS NEEDED) AT
FRONT OF c503 & e801, TYP UNO
- 2 SSU SEISMIC BRACKET
PER PG 19, TYP
- 3 ISE SEISMIC BRACKET
PER PG 20, TYP
- 4 M8x16mm SUS304 BOLT BY MFR
(REFER TO UNIT "PLAN &
ELEVATIONS" FOR LOCATIONS
- 5 M8x20mm SUS304 BOLT BY MFR
- 6 M4x6mm CS SCREW BY MFR



SHEET TITLE: SYSTEM CONFIGURATIONS

ISE + c503 + ISE + c503 + e801 + e801



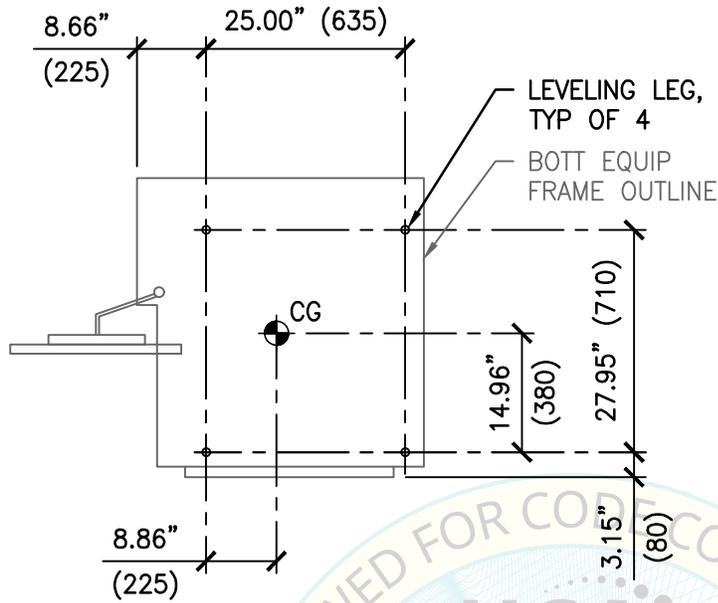
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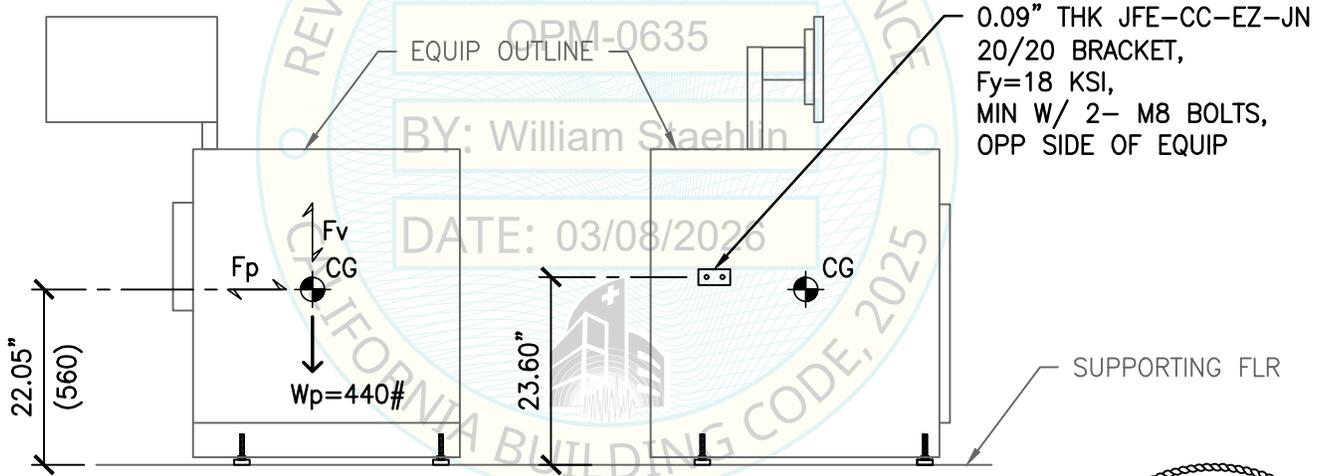
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PLAN VIEW

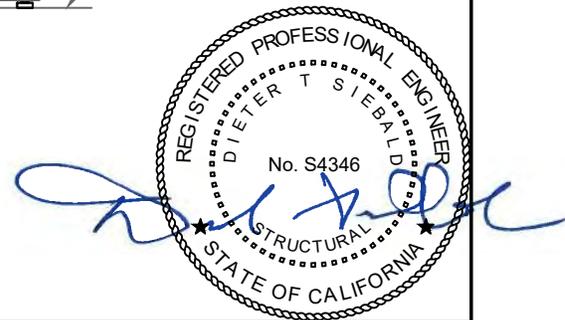


FRONT ELEV

LEFT ELEV

NOTES:

1. FOR SEISMIC BRACKET LOCATIONS & ORIENTATION SEE SYSTEM CONFIGURATION PLANS.
2. WHEELS NOT SHOWN FOR CLARITY.
3. FRAME MATERIAL: JFE-CC-EZ-JN 20/20.
4. REFER TO PG 23 FOR FRAME MATERIAL PROPERTIES.



SHEET TITLE: COMPONENT PLANS & ELEVATIONS
SAMPLE SUPPLY UNIT (SSU) - COMPONENT #1



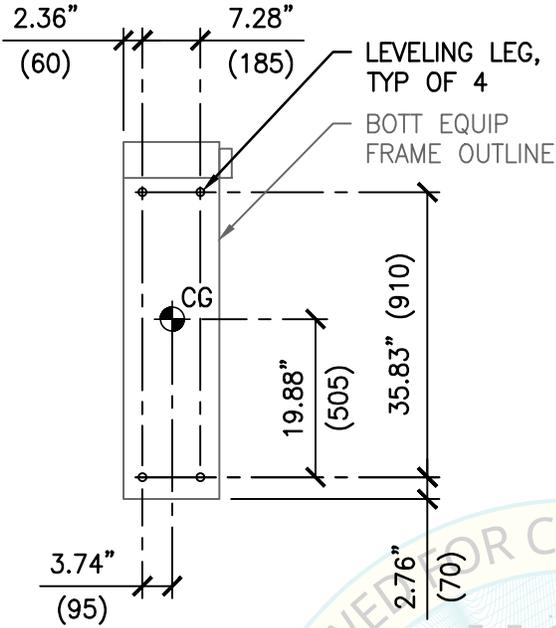
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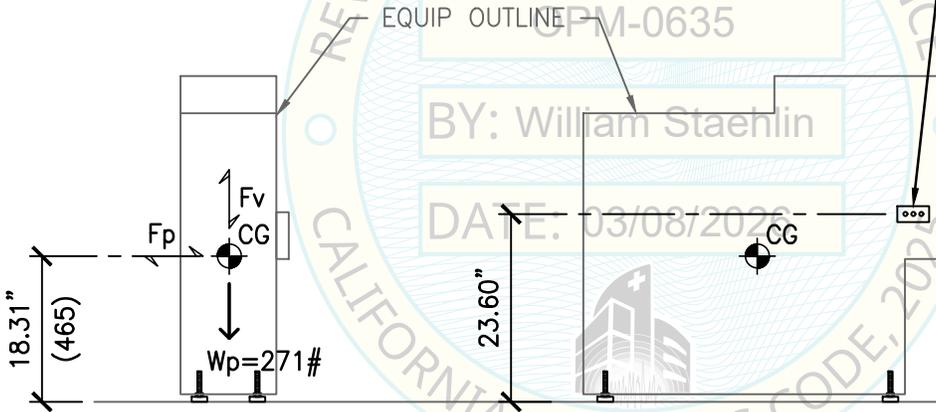
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PLAN VIEW

0.09" THK JFE-CC-EZ-JN
20/20 BRACKET,
Fy=18 KSI,
MIN W/ 3- M8 BOLTS ES,
TYP

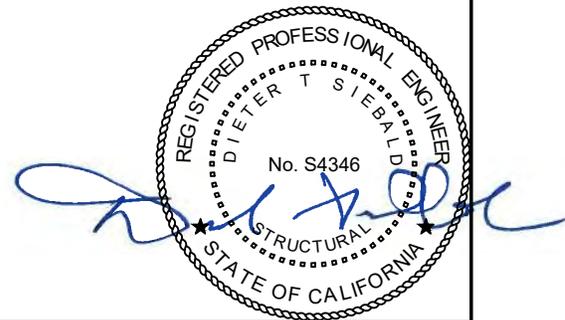


FRONT ELEV

RIGHT ELEV

NOTES:

1. FOR SEISMIC BRACKET LOCATIONS & ORIENTATION SEE SYSTEM CONFIGURATION PLANS.
2. ONLY 2- M8 BOLTS ARE USED FOR ATTACHMENT TO SSU, ISE & ISE neo UNITS
3. WHEELS NOT SHOWN FOR CLARITY.
4. FRAME MATERIAL: SUS430 & JFE-CC-EZ-JN 20/20.
5. REFER TO PG 23 FOR FRAME MATERIAL PROPERTIES.



SHEET TITLE: COMPONENT PLANS & ELEVATIONS
SAMPLE BUFFER (SB) - COMPONENT #3



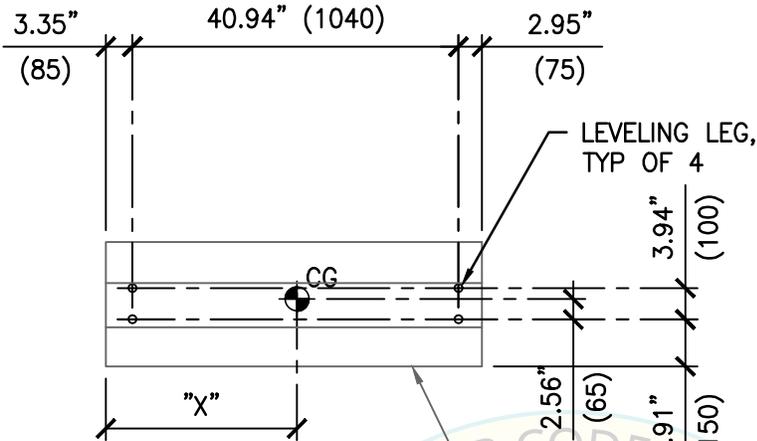
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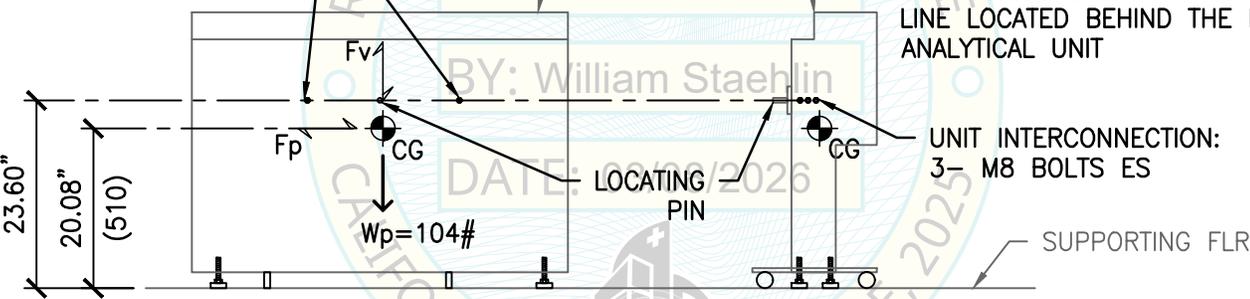
| COMPONENTS QUALIFIED BY THIS DWG: | |
|-----------------------------------|--------------|
| SBL-DL-c503 | 22.83" (580) |
| SBL-TC-c503 | 22.83" (580) |
| SBL-DL-e801 | 22.83" (580) |
| SBL-TL-e801 | 22.83" (580) |
| SBL-DL-c703 | 25.00" (635) |
| SBL-TL-c703 | 25.00" (635) |

PLAN VIEW

NOTE:
TL – TRANSPORT LINE IS A RACK TRANSFER LINE LOCATED BEHIND AN ANALYTICAL UNIT THAT IS NOT THE LAST UNIT.

DL – DRIVE LINE IS A RACK DRIVE LINE LOCATED BEHIND THE LAST ANALYTICAL UNIT

UNIT INTERCONNECTION:
2- M8 BOLTS



FRONT ELEV

LEFT ELEV

- NOTES:**
1. FOR SEISMIC BRACKET LOCATIONS & ORIENTATION SEE SYSTEM CONFIGURATION PLANS.
 2. WHEELS NOT SHOWN FOR CLARITY.
 3. FRAME MATERIAL: SUS430 & JFE-CC-EZ-JN 20/20.
 4. REFER TO PG 23 FOR FRAME MATERIAL PROPERTIES.



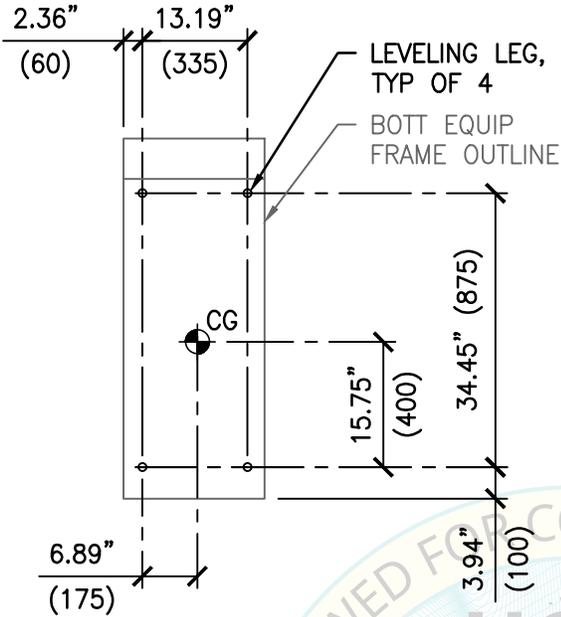
SHEET TITLE: COMPONENT PLANS & ELEVATIONS
SAMPLE BUFFER LINE (SBL) - COMPONENT #4

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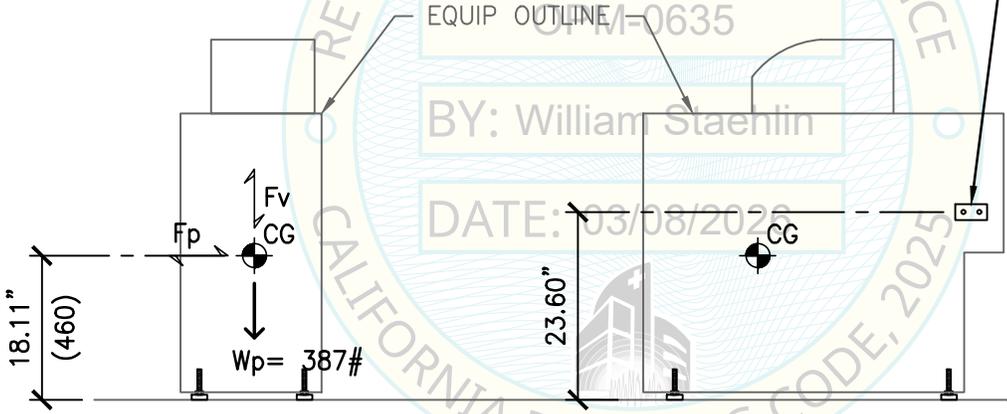
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PLAN VIEW

0.09" THK JFE-CC-EZ-JN
20/20 BRACKET,
F_y=18 KSI,
MIN W/ 2- M8 BOLTS.
ES OF EQUIP



FRONT ELEV

RIGHT ELEV

SUPPORTING FLR

NOTES:

1. FOR SEISMIC BRACKET LOCATIONS & ORIENTATION SEE SYSTEM CONFIGURATION PLANS.
2. WHEELS NOT SHOWN FOR CLARITY.
3. FRAME MATERIAL: SUS430 & JFE-CC-EZ-JN 20/20.
4. REFER TO PG 23 FOR FRAME MATERIAL PROPERTIES.



SHEET TITLE: COMPONENT PLANS & ELEVATIONS
ION SELECTIVE ELECTRODE UNIT (ISE) - COMPONENT #2



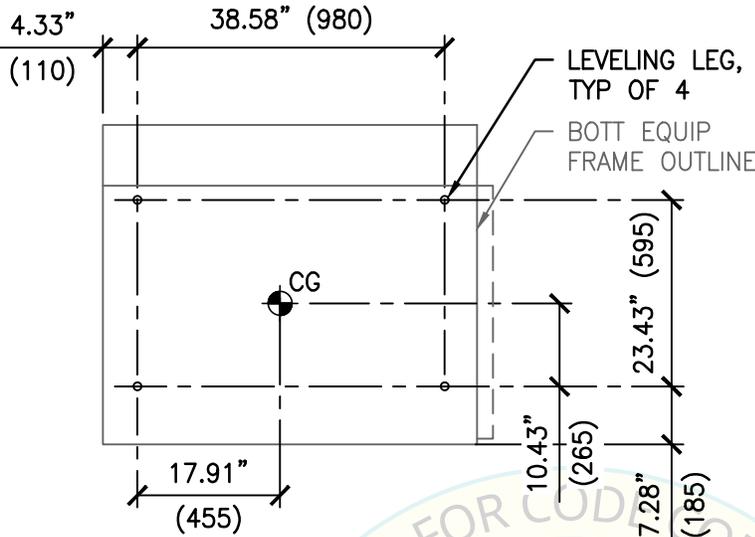
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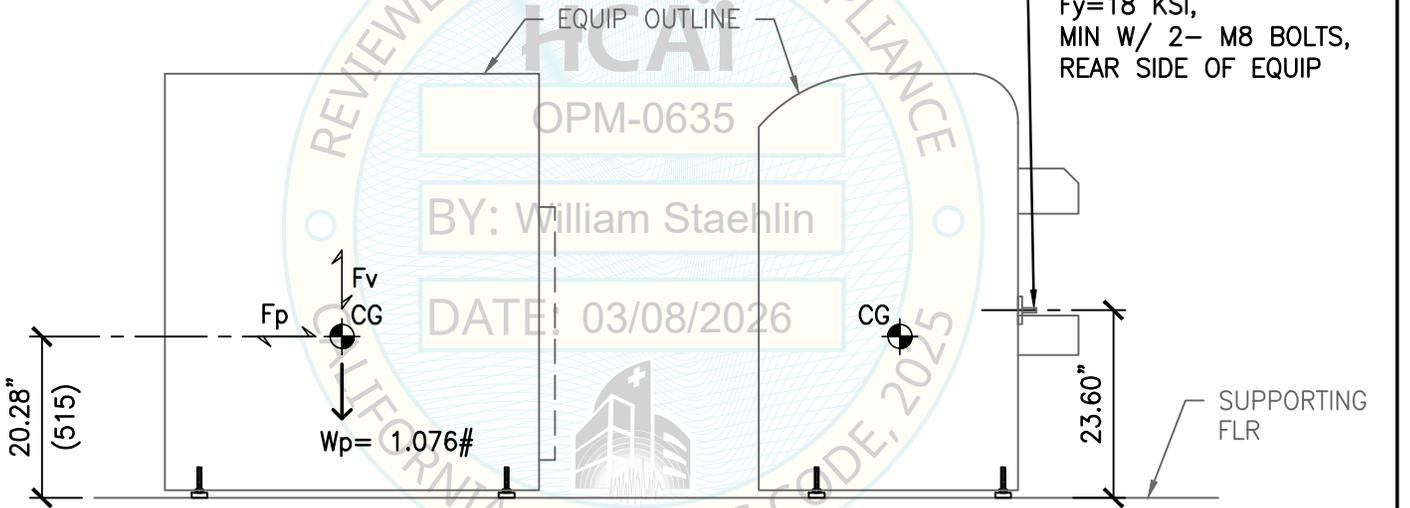
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PLAN VIEW

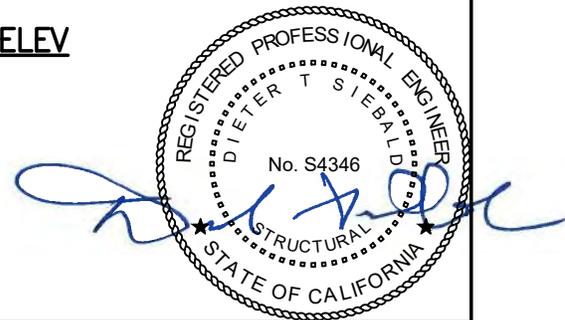


FRONT ELEV

RIGHT ELEV

NOTES:

1. FOR SEISMIC BRACKET LOCATIONS & ORIENTATION SEE SYSTEM CONFIGURATION PLANS.
2. WHEELS NOT SHOWN FOR CLARITY.
3. FRAME MATERIAL: SUS430 & JFE-CC-EZ-JN 20/20.
4. REFER TO PG 23 FOR FRAME MATERIAL PROPERTIES.



SHEET TITLE: COMPONENT PLANS & ELEVATIONS
ANALYTICAL UNIT (C503) - COMPONENT #5



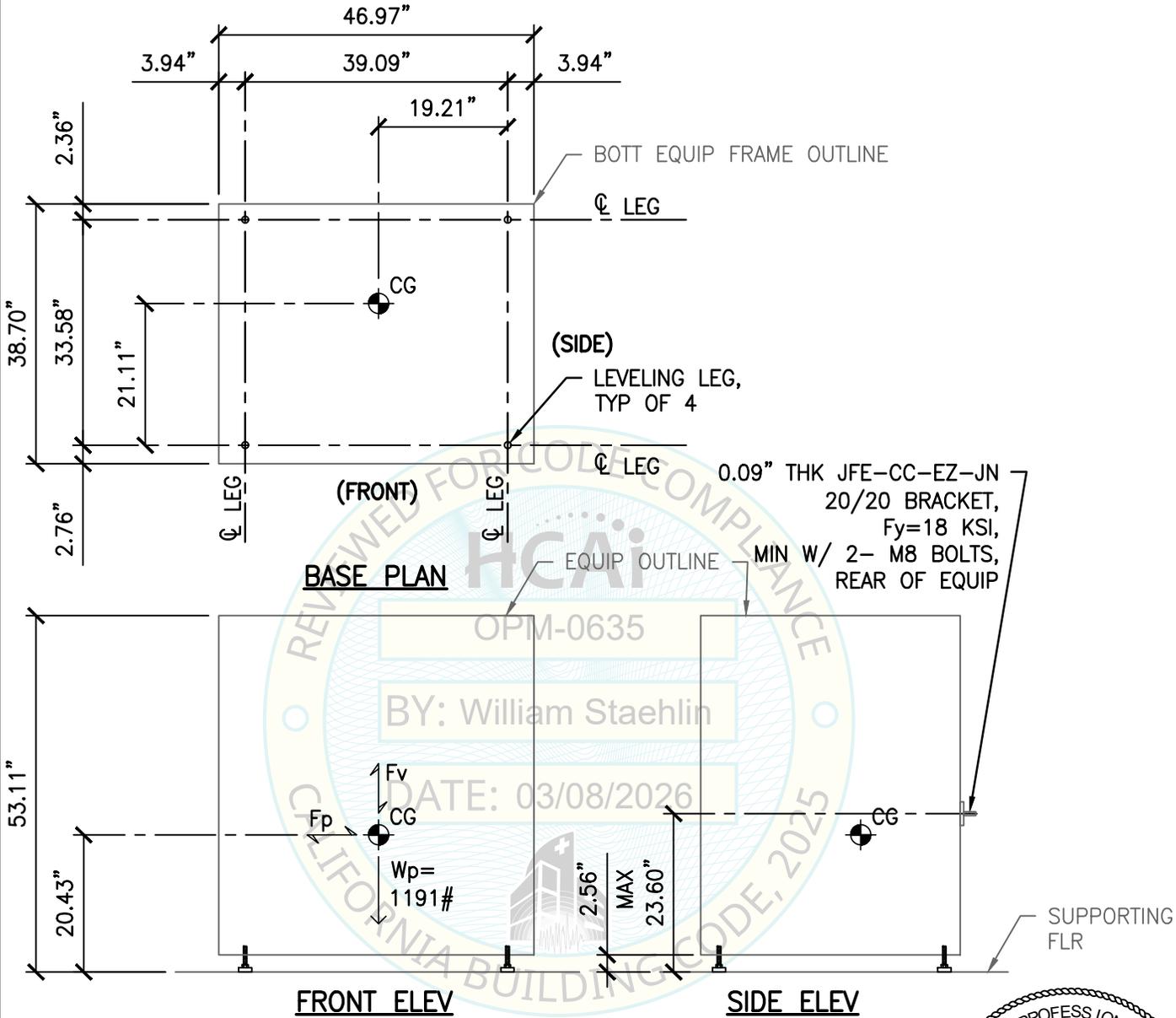
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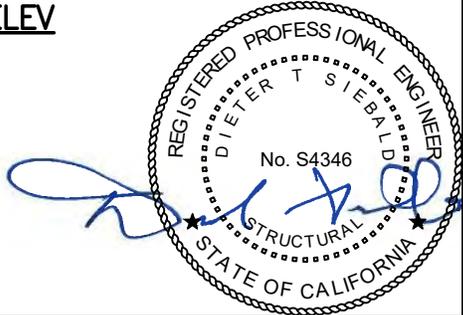
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- NOTES:**
1. FOR SEISMIC BRACKET LOCATIONS & ORIENTATION SEE SYSTEM CONFIGURATION PLANS.
 2. WHEELS NOT SHOWN FOR CLARITY.
 3. FRAME MATERIAL: SUS430.
 4. REFER TO PG 23 FOR FRAME MATERIAL PROPERTIES.



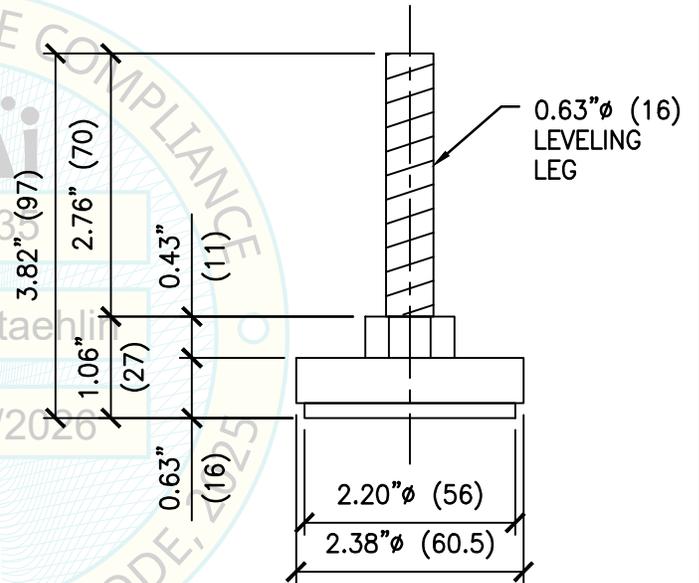
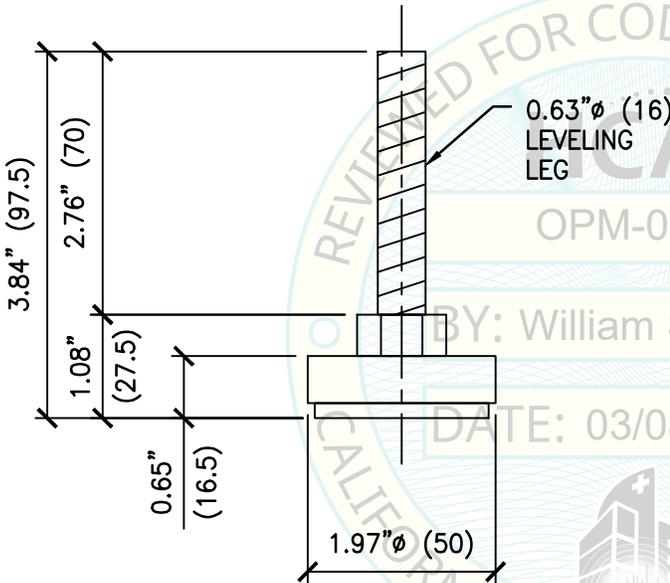
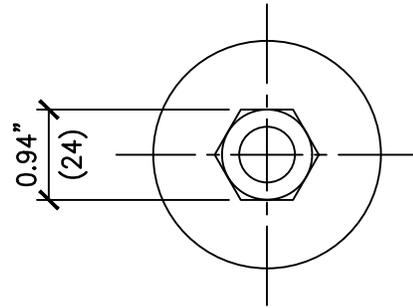
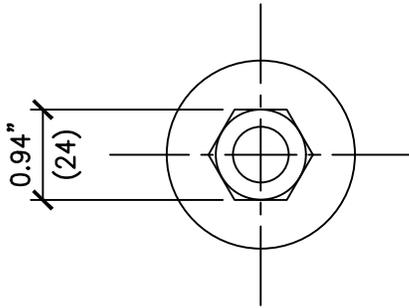
SHEET TITLE: COMPONENT PLANS & ELEVATIONS
ANALYTICAL UNIT (e801) - COMPONENT #6

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TYP COBAS PRO LEVELING FOOT

c503, c703 & e801 LEVELING FOOT



MATERIAL: SWCH10R
STRENGTH: $F_y = 30$ KSI
ALLOWANCE LOAD: 770#

MATERIAL: SWCH10R
STRENGTH: $F_y = 30$ KSI
ALLOWANCE LOAD: 990#



SHEET TITLE: LEVELING LEG DETAIL



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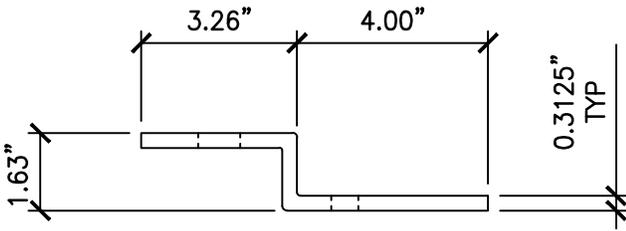
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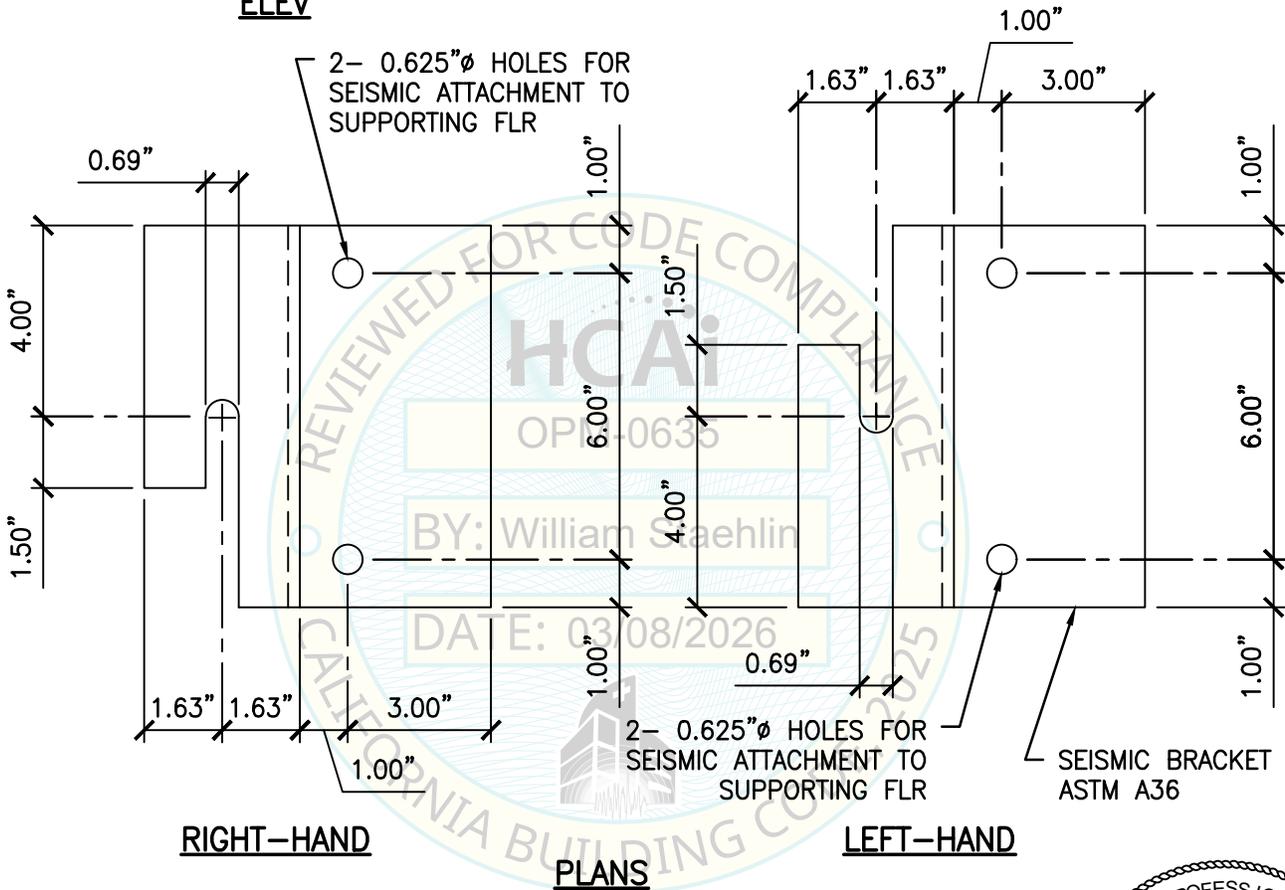
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- NOTES:**
- FOR CASE 1, 2 & 3 ATTACHMENT TO FLR, SEE PGS 21 - 23.
 - BRACKET & SLOT DIRECTIONS SHALL BE FOLLOWED AS SHOWN ON SYSTEM CONFIGURATION PLANS.



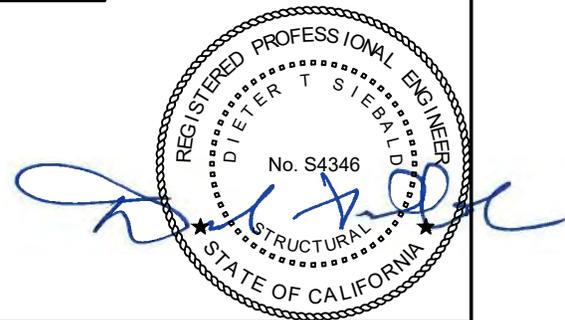
ELEV



RIGHT-HAND

LEFT-HAND

PLANS



SHEET TITLE: SEISMIC BRACKET DETAIL

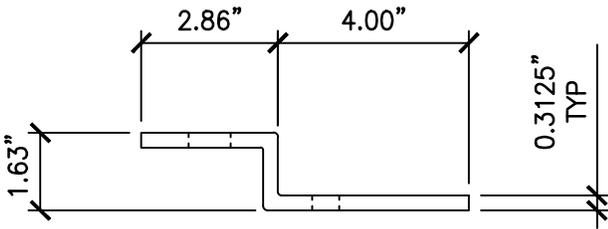


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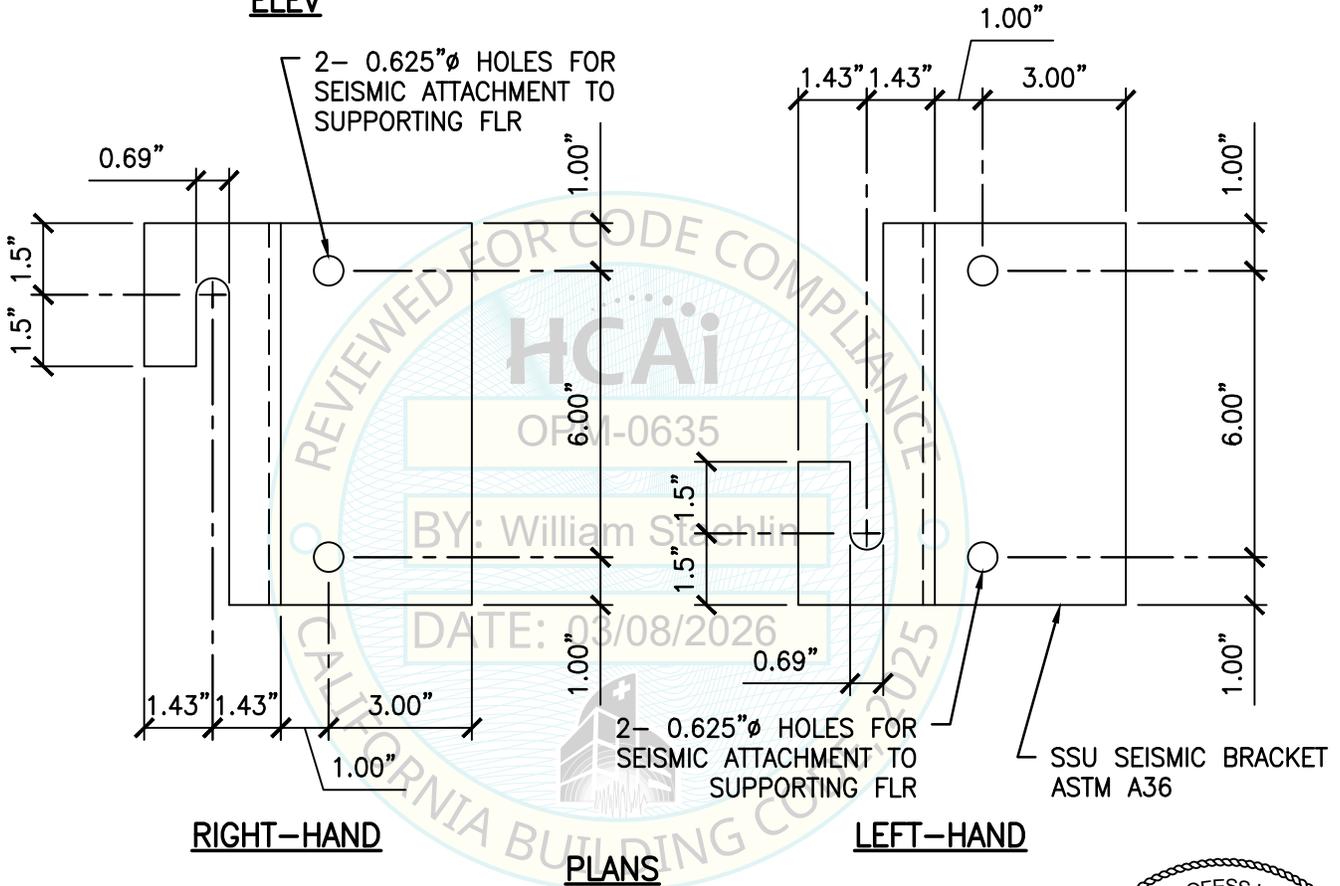
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- NOTES:**
1. FOR CASE 1, 2 & 3 ATTACHMENT TO FLR, SEE PGS 21 - 23.
 2. BRACKET & SLOT DIRECTIONS SHALL BE FOLLOWED AS SHOWN ON SYSTEM CONFIGURATION PLANS.

ELEV

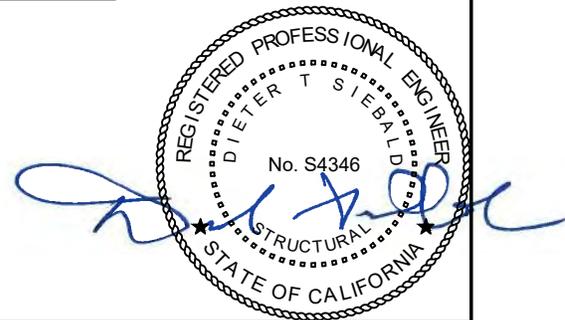


RIGHT-HAND

LEFT-HAND

PLANS

SSU SEISMIC BRACKET
ASTM A36



SHEET TITLE: SSU SEISMIC BRACKET DETAIL



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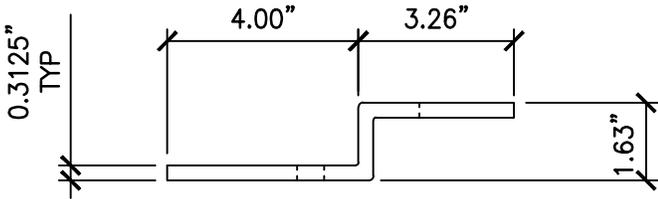
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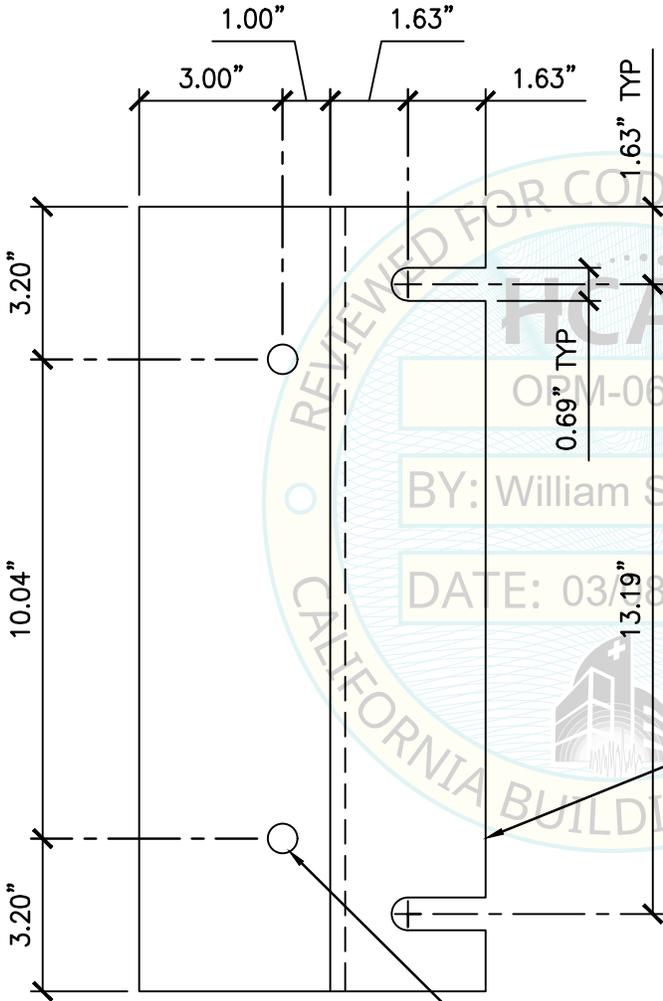
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- NOTES:**
1. FOR CASE 1, 2 & 3 ATTACHMENT TO FLR, SEE PGS 21 - 23.
 2. BRACKET & SLOT DIRECTIONS SHALL BE FOLLOWED AS SHOWN ON SYSTEM CONFIGURATION PLANS.



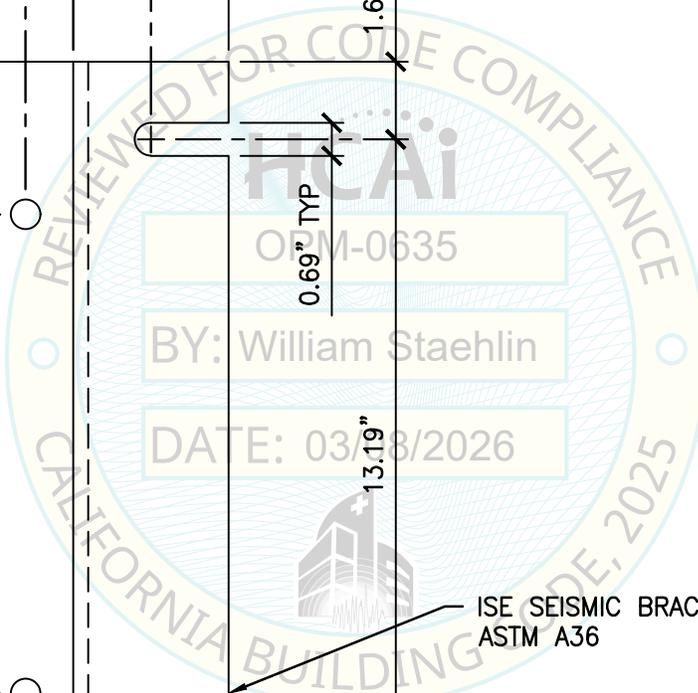
ELEV



PLAN

2- 0.625"Ø HOLES FOR SEISMIC ATTACHMENT TO SUPPORTING FLR

ISE SEISMIC BRACKET
ASTM A36



SHEET TITLE: ISE SEISMIC BRACKET DETAIL



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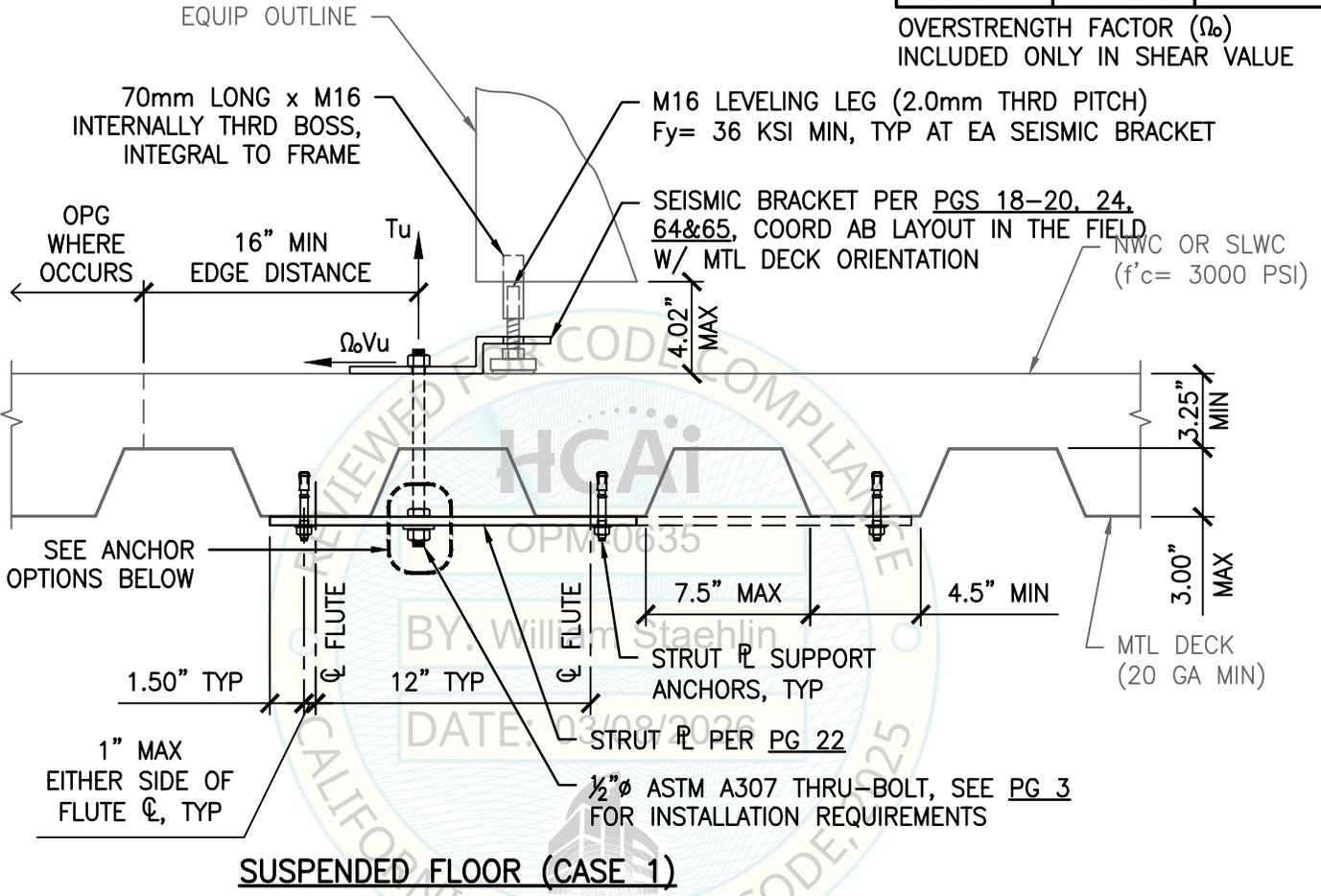
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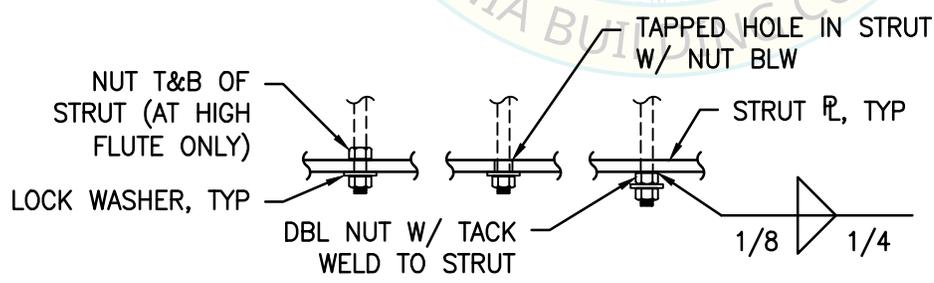


| MAX LRFD FORCES AT EA ANCHOR | |
|------------------------------|----------------|
| T_u | $\Omega_o V_u$ |
| CASE 1 | 1044# |
| | 1556# |

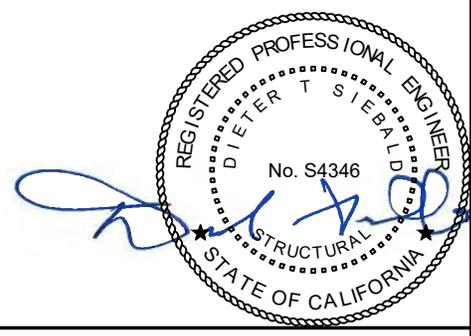
OVERSTRENGTH FACTOR (Ω_o) INCLUDED ONLY IN SHEAR VALUE



SUSPENDED FLOOR (CASE 1)



ANCHOR OPTIONS



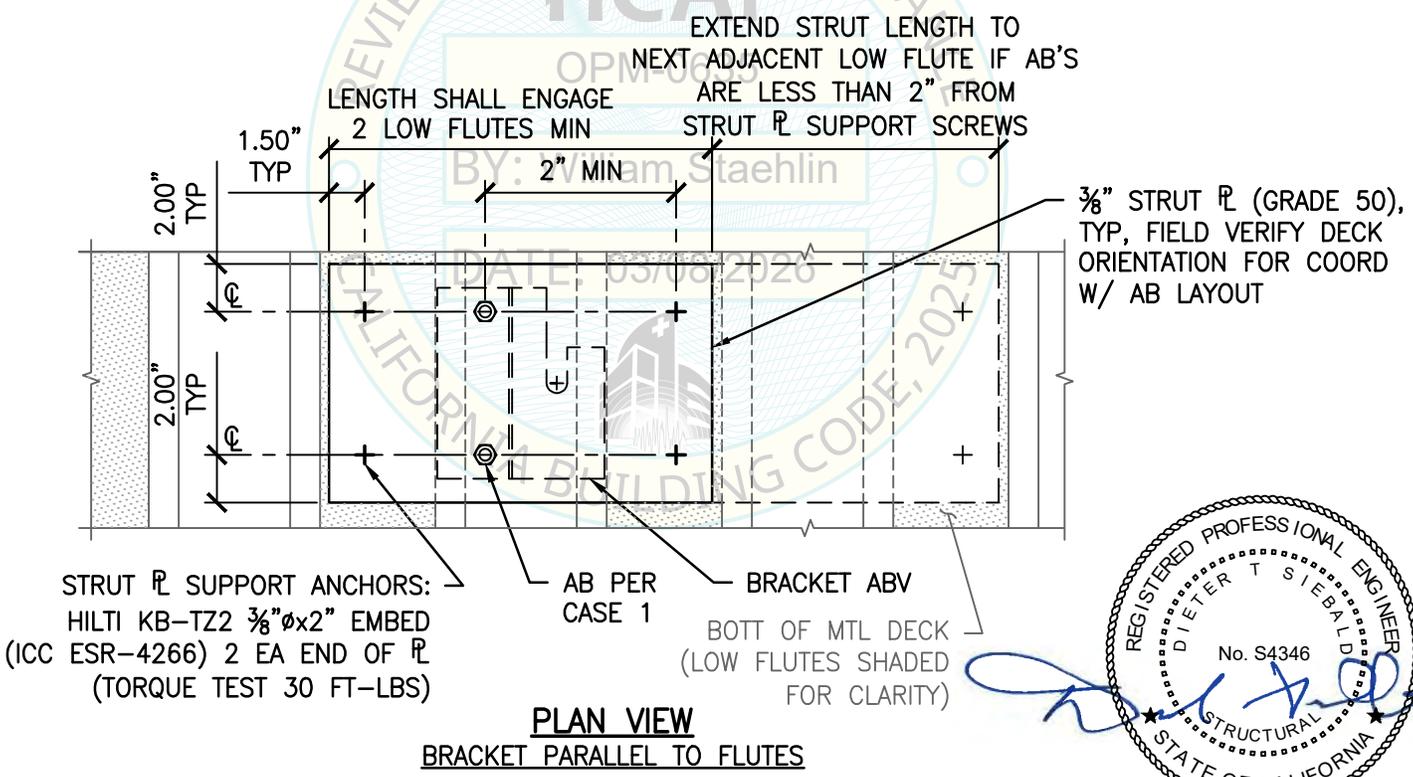
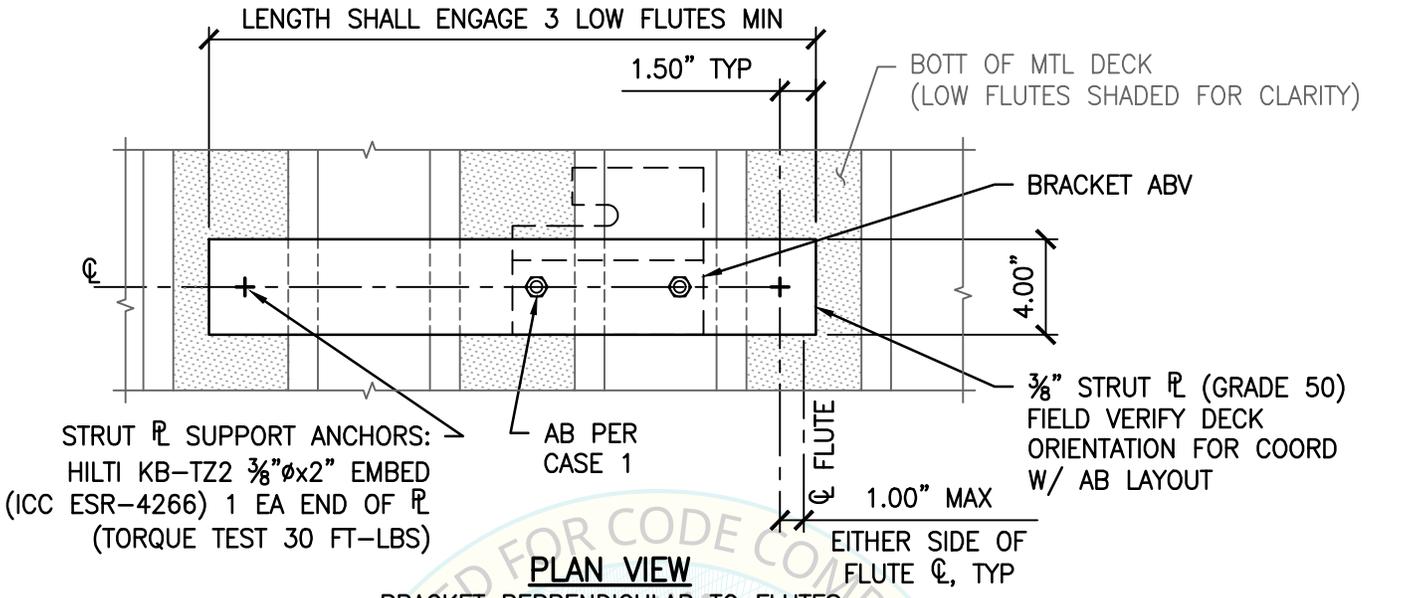
SHEET TITLE: ATTACHMENT DETAIL
TO CONCRETE FILL OVER METAL DECK (CASE 1)

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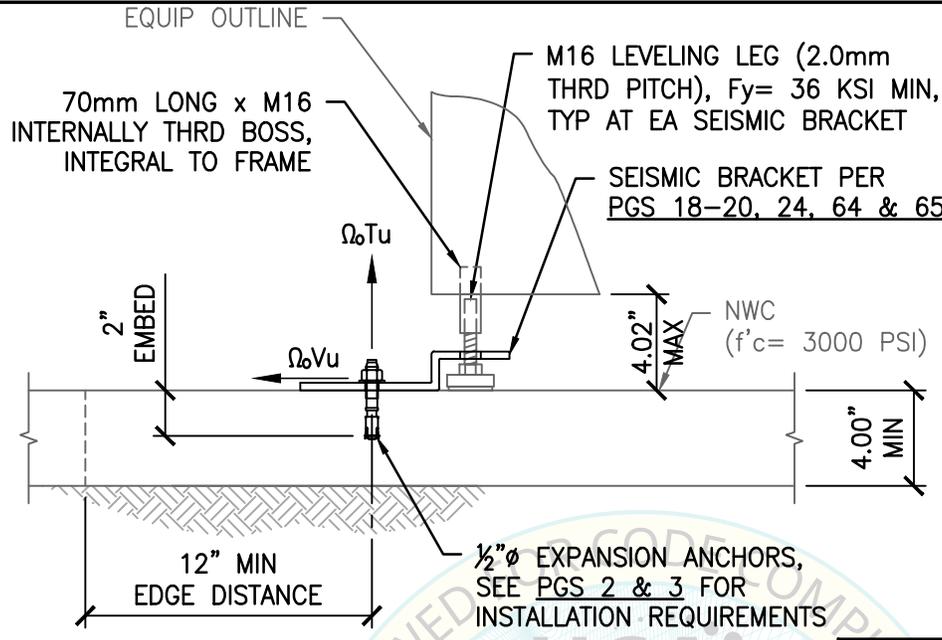


SHEET TITLE: TYPICAL STRUT DETAIL

| | |
|---|-------------------------|
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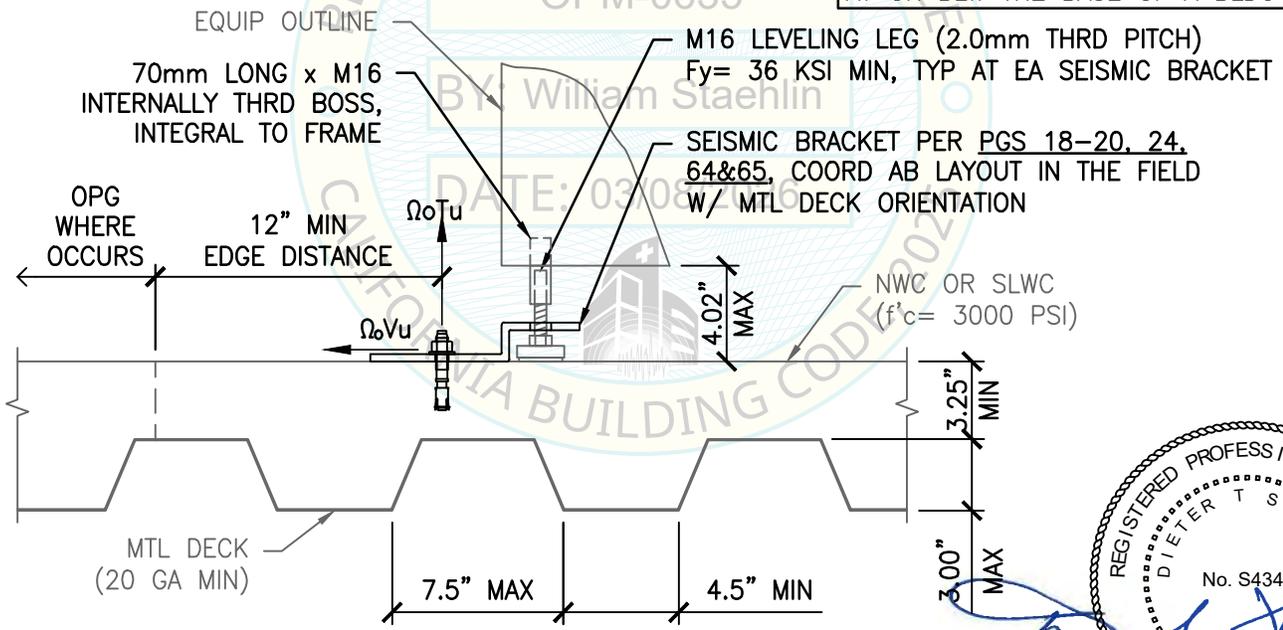


| | | |
|------------------------------|----------------|----------------|
| MAX LRFD FORCES AT EA ANCHOR | | |
| | $\Omega_0 T_u$ | $\Omega_0 V_u$ |
| CASE 2 | 872# | 1327# |
| CASE 3 | 399# | 755# |

OVERSTRENGTH FACTOR (Ω_0) INCLUDED.
EQUIPMENT FRAME MATERIAL:
 SUS430, GRADE 430SS, ASTM A240:
 2.0mm THK (14 GA)
 Fy= 45 KSI MIN; Fu= 70 KSI MIN
OR
 JFE-CC-EZ-JN 20/20, CHROMATE
 FREE COATED STEEL:
 2.5mm THK (13 GA)
 Fy= 18.1 KSI MIN; Fu= 39.1 KSI MIN

SLAB ON GRADE (CASE 2)

NOTE:
 THIS ATTACHMENT DTL CAN ALSO BE
 USED FOR SUSPENDED CONC SLAB
 AT OR BLW THE BASE OF A BLDG



SUSPENDED FLOOR (CASE 3)

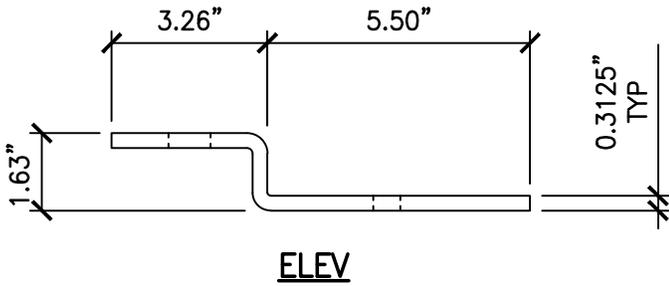


SHEET TITLE: ATTACHMENT DETAIL
 TO SLAB ON GRADE (CASE 2); SUSPENDED FLOOR (CASE 3)

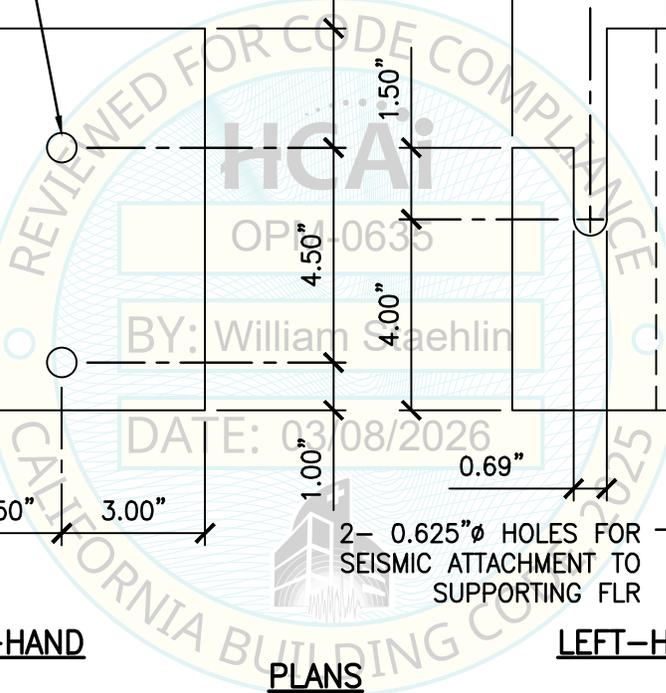
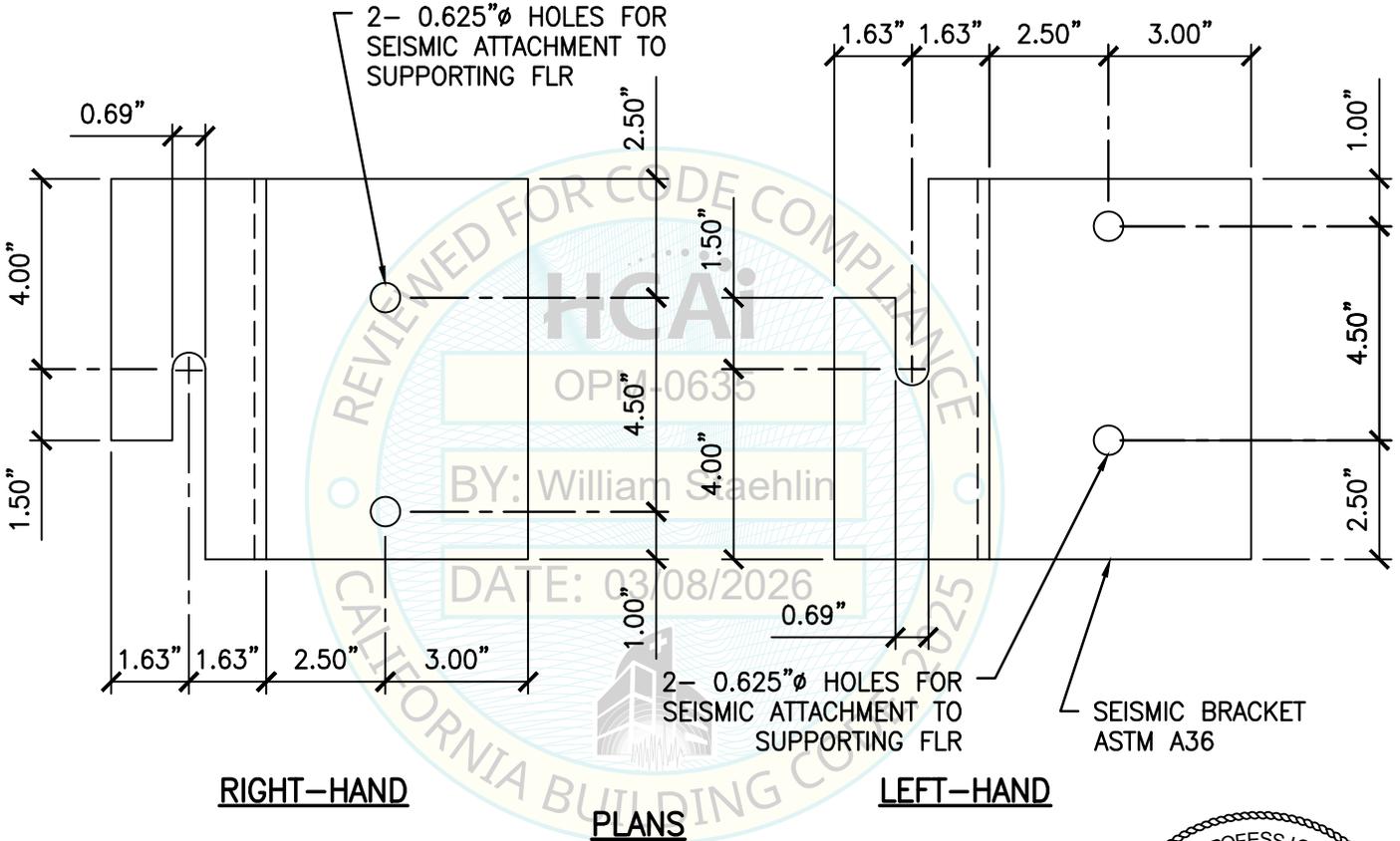
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- NOTES:**
1. FOR CASE 1 & CASE 2 ATTACHMENT TO FLR, SEE PGS 21 & 23.
 2. BRACKET & SLOT DIRECTIONS SHALL BE FOLLOWED AS SHOWN ON SYSTEM CONFIGURATION PLANS.
 3. THESE ALTERNATE SEISMIC BRACKETS ARE FOR THE c503 & e801 MODULES.



SHEET TITLE: c501, e801 SEISMIC BRACKET DETAIL

| | |
|--|------------------|
| CYS STRUCTURAL ENGINEERS, INC. 2710 GATEWAY OAKS DRIVE, SUITE 190N SACRAMENTO, CA 95833 | Job No: 24047 |
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OPM-0635

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| ISE + c503 + e801 + e801 + e801 | 31 |
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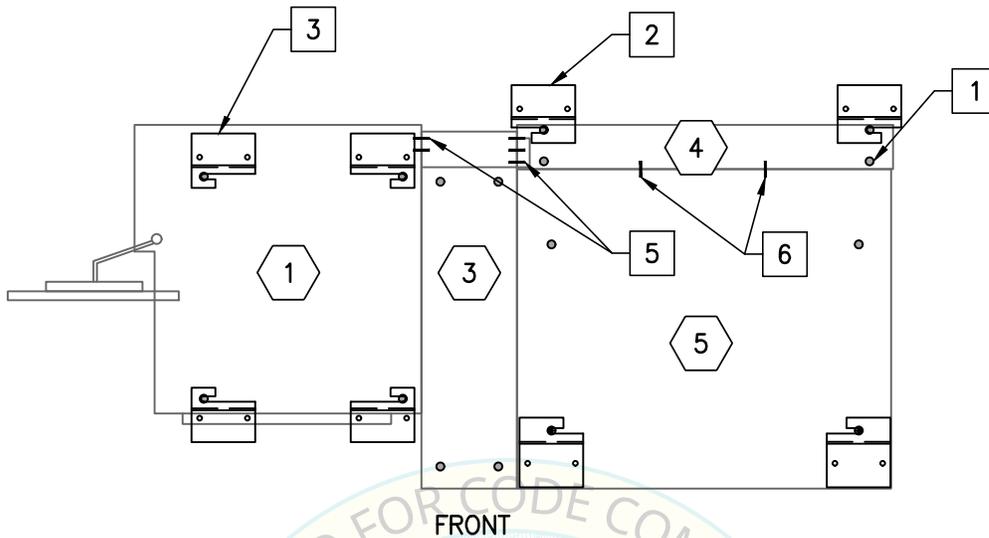
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| ISE neo SEISMIC BRACKET DETAIL | 64 |
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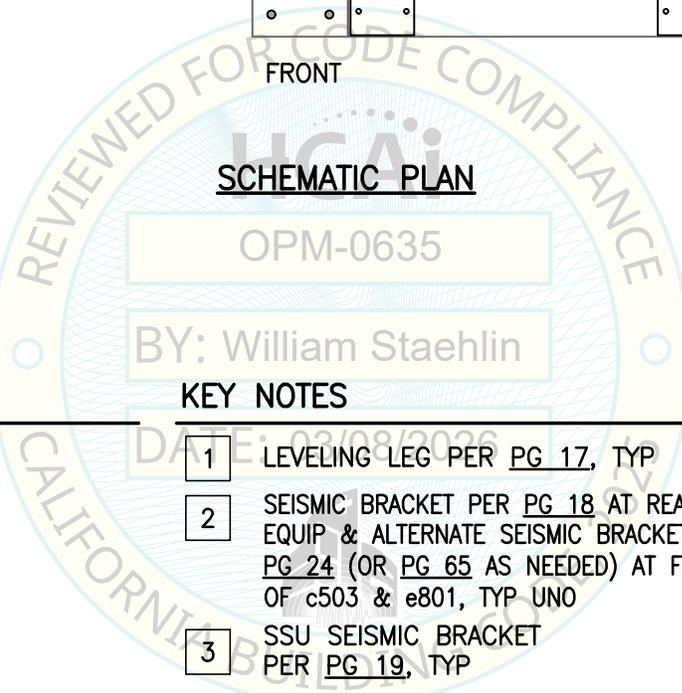
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SCHMATIC PLAN

OPM-0635

BY: William Staehlin



COMPONENT:

KEY NOTES

| | | | | | |
|----|-------------------|---|--|---|--|
| 1 | SSU PER PG 11 | 1 | LEVELING LEG PER PG 17, TYP | 8 | ISE neo SEISMIC BRACKET PER PG 64, TYP |
| 2* | ISE PER PG 14 | 2 | SEISMIC BRACKET PER PG 18 AT REAR OF EQUIP & ALTERNATE SEISMIC BRACKET PER PG 24 (OR PG 65 AS NEEDED) AT FRONT OF c503 & e801, TYP UNO | | |
| 3 | SB PER PG 12 | 3 | SSU SEISMIC BRACKET PER PG 19, TYP | | |
| 4 | SBL PER PG 13 | 4 | ISE SEISMIC BRACKET PER PG 20, TYP | | |
| 5 | c503 PER PG 15 | 5 | M8x16mm SUS304 BOLT BY MFR (REFER TO UNIT "PLAN & ELEVATIONS" FOR LOCATIONS | | |
| 6* | e801 PER PG 16 | 6 | M8x20mm SUS304 BOLT BY MFR | | |
| 7* | ISE neo PER PG 62 | 7 | M4x6mm CS SCREW BY MFR | | |
| 8* | c703 PER PG 63 | | | | |

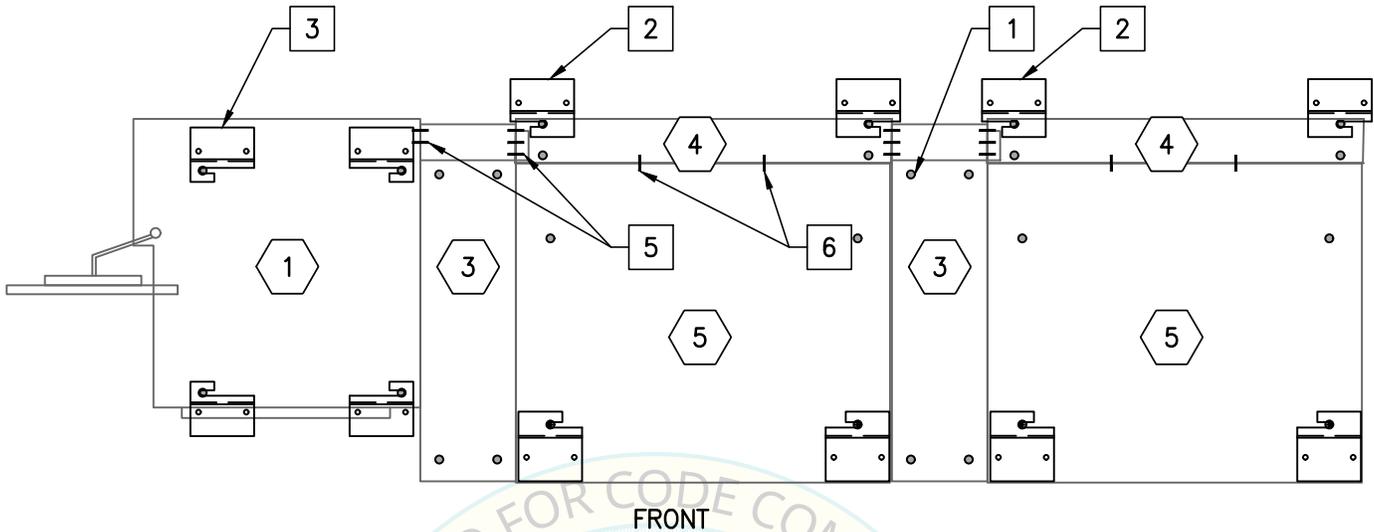
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SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS
c503

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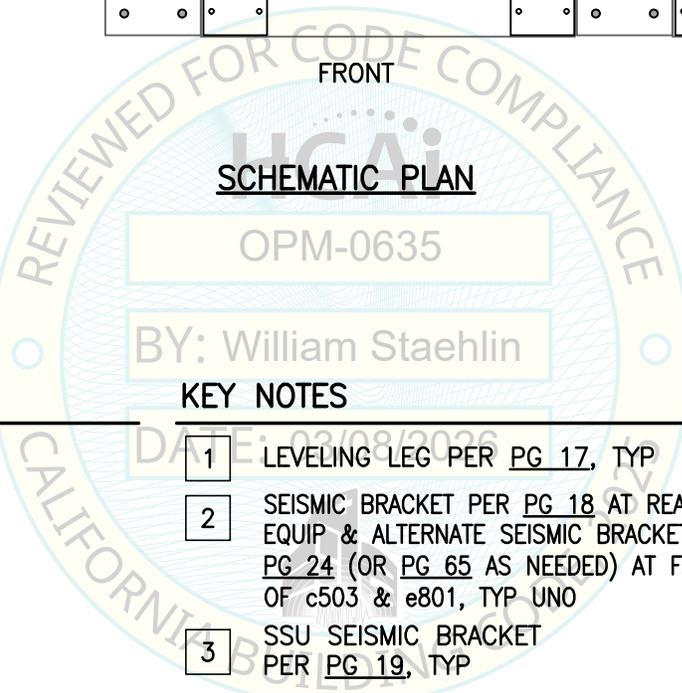
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SCHEMATIC PLAN

OPM-0635

BY: William Staehlin



COMPONENT:

KEY NOTES

- 1 SSU PER PG 11
- 2* ISE PER PG 14
- 3 SB PER PG 12
- 4 SBL PER PG 13
- 5 c503 PER PG 15
- 6* e801 PER PG 16
- 7* ISE neo PER PG 62
- 8 c703 PER PG 63

- 1 LEVELING LEG PER PG 17, TYP
- 2 SEISMIC BRACKET PER PG 18 AT REAR OF EQUIP & ALTERNATE SEISMIC BRACKET PER PG 24 (OR PG 65 AS NEEDED) AT FRONT OF c503 & e801, TYP UNO
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- 4 ISE SEISMIC BRACKET PER PG 20, TYP
- 5 M8x16mm SUS304 BOLT BY MFR (REFER TO UNIT "PLAN & ELEVATIONS" FOR LOCATIONS
- 6 M8x20mm SUS304 BOLT BY MFR
- 7 M4x6mm CS SCREW BY MFR
- 8 ISE neo SEISMIC BRACKET PER PG 64, TYP

*NOT PART OF THIS CONFIGURATION

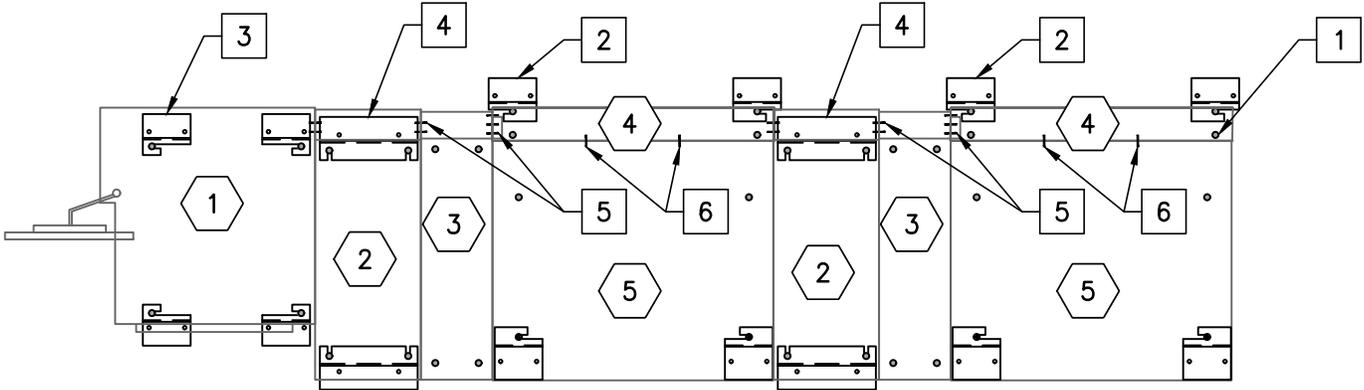


SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS
c503 + c503

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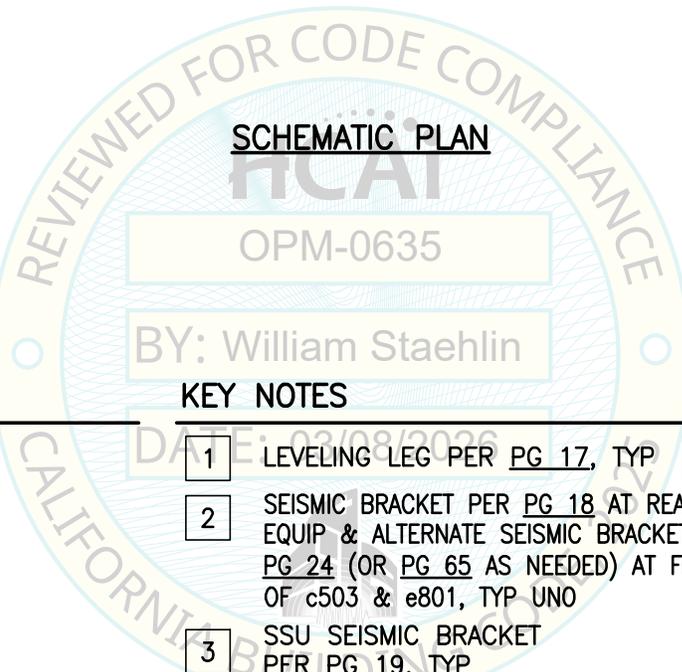


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SCHEMATIC PLAN

OPM-0635

BY: William Staehlin



COMPONENT:

KEY NOTES

| | | | | | |
|----|--------------------------|---|---|---|--|
| 1 | SSU PER <u>PG 11</u> | 1 | LEVELING LEG PER <u>PG 17</u> , TYP | 8 | ISE neo SEISMIC BRACKET PER <u>PG 64</u> , TYP |
| 2 | ISE PER <u>PG 14</u> | 2 | SEISMIC BRACKET PER <u>PG 18</u> AT REAR OF EQUIP & ALTERNATE SEISMIC BRACKET PER <u>PG 24</u> (OR <u>PG 65</u> AS NEEDED) AT FRONT OF c503 & e801, TYP UNO | | |
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| 6* | e801 PER <u>PG 16</u> | 6 | M8x20mm SUS304 BOLT BY MFR | | |
| 7* | ISE neo PER <u>PG 62</u> | 7 | M4x6mm CS SCREW BY MFR | | |
| 8* | c703 PER <u>PG 63</u> | | | | |

*NOT PART OF THIS CONFIGURATION

SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS

ISE + c503 + ISE + c503

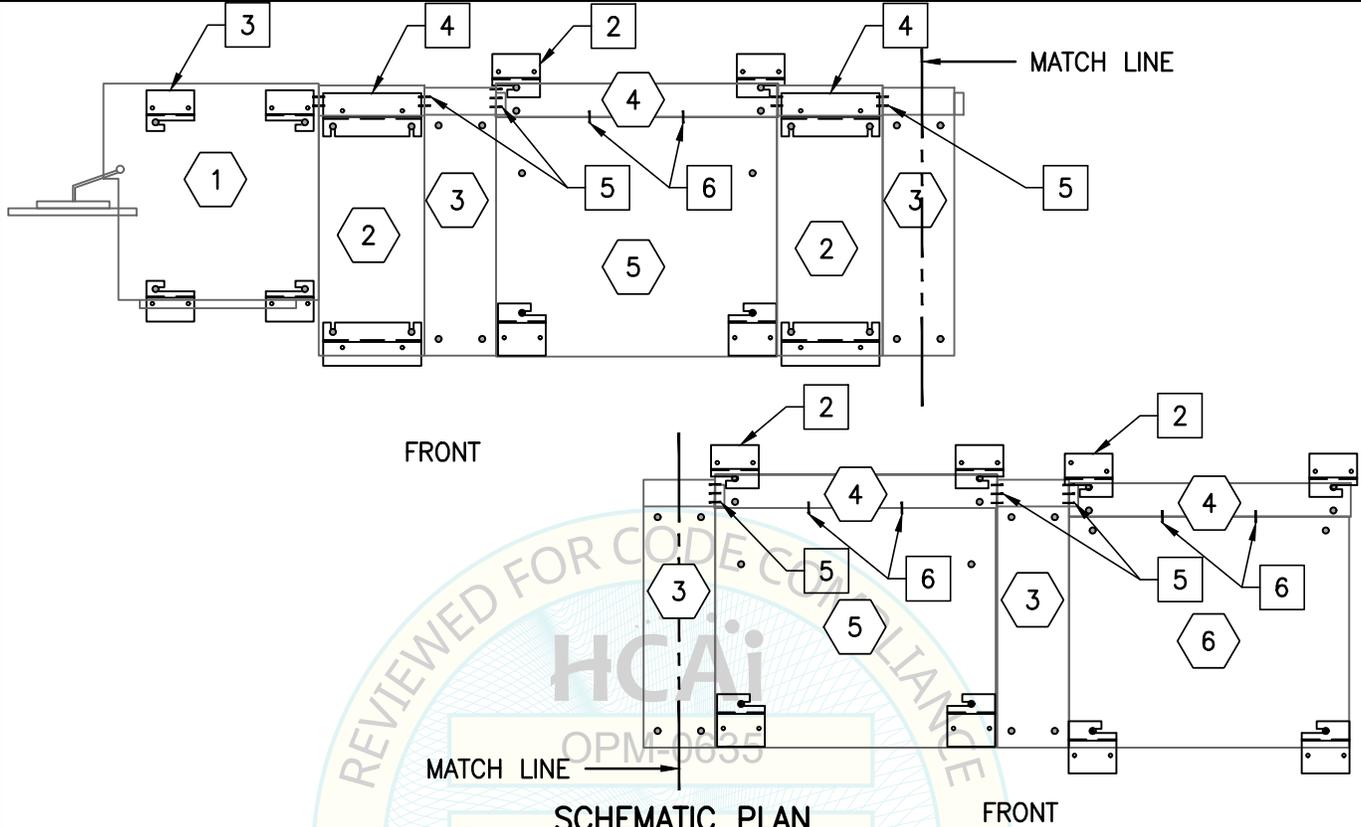


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SCHMATIC PLAN

COMPONENT:

- 1 SSU PER PG 11
- 2 ISE PER PG 14
- 3 SB PER PG 12
- 4 SBL PER PG 13
- 5 c503 PER PG 15
- 6 e801 PER PG 16
- 7* ISE neo PER PG 62
- 8* c703 PER PG 63

KEY NOTES

- 1 LEVELING LEG PER PG 17, TYP
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- 7 M4x6mm CS SCREW BY MFR
- 8 ISE neo SEISMIC BRACKET PER PG 64, TYP

*NOT PART OF THIS CONFIGURATION

SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS

ISE + c503 + ISE + c503 + e801



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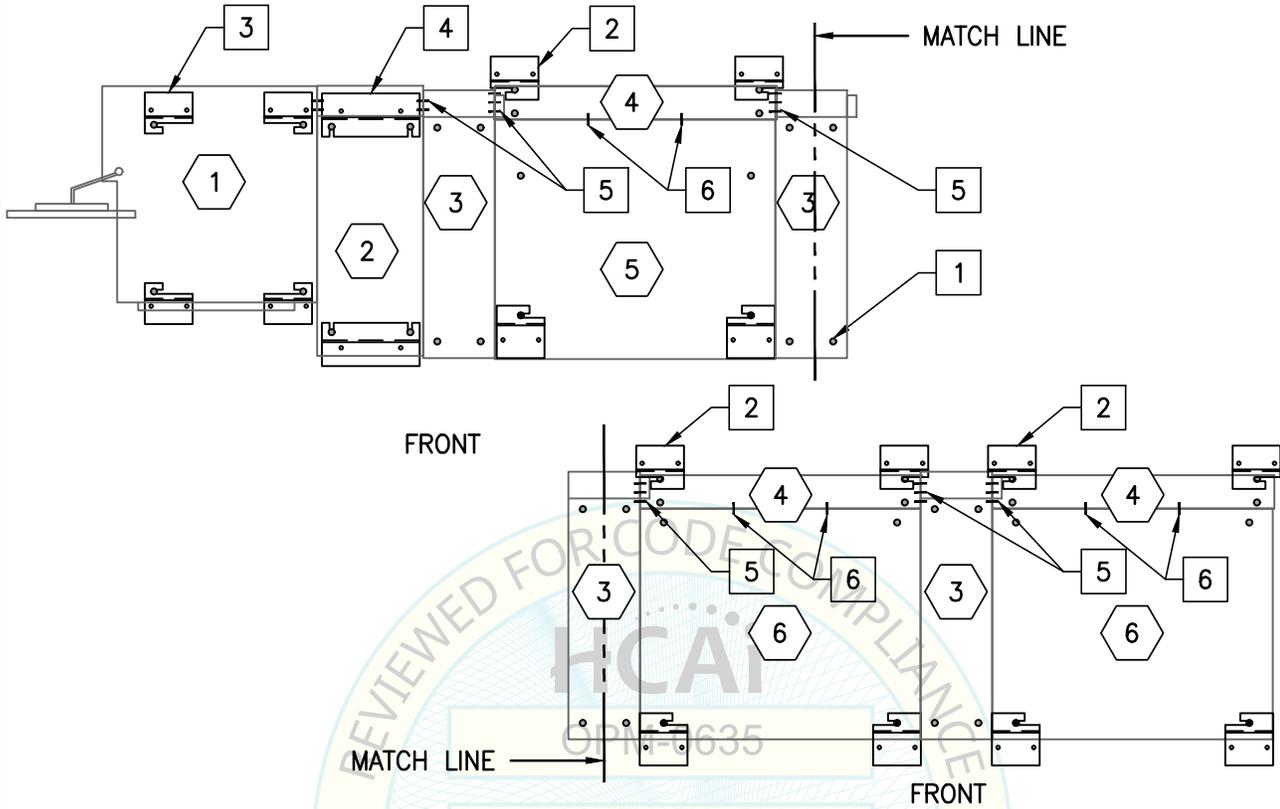
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SCHMATIC PLAN

COMPONENT:

- 1 SSU PER PG 11
- 2 ISE PER PG 14
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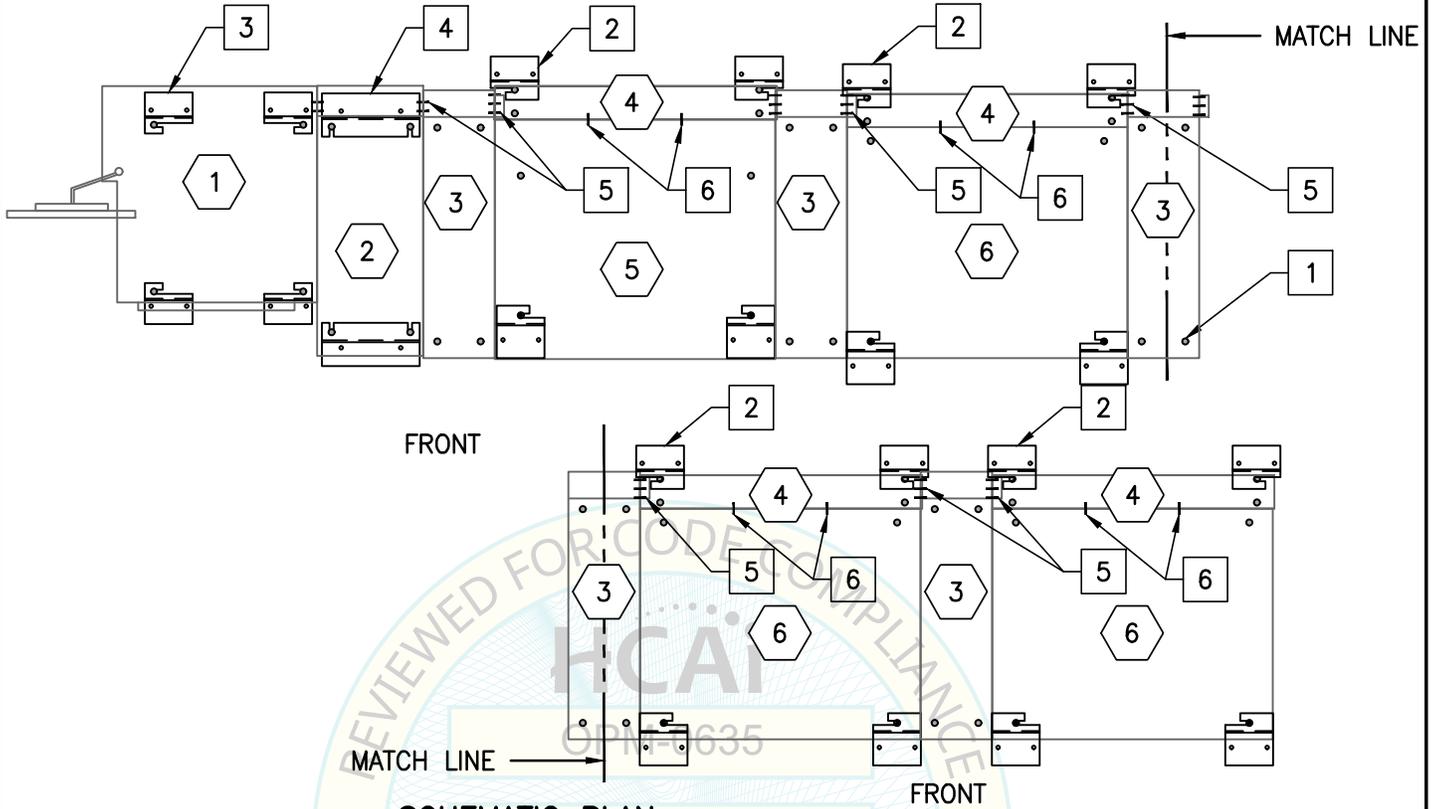


SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS
ISE + c503 + e801 + e801

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SCHMATIC PLAN

COMPONENT:

KEY NOTES

| | | | | | |
|----|-------------------|---|--|---|--|
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| 8* | c703 PER PG 63 | | | | |

*NOT PART OF THIS CONFIGURATION



SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS

ISE + c503 + e801 + e801 + e801

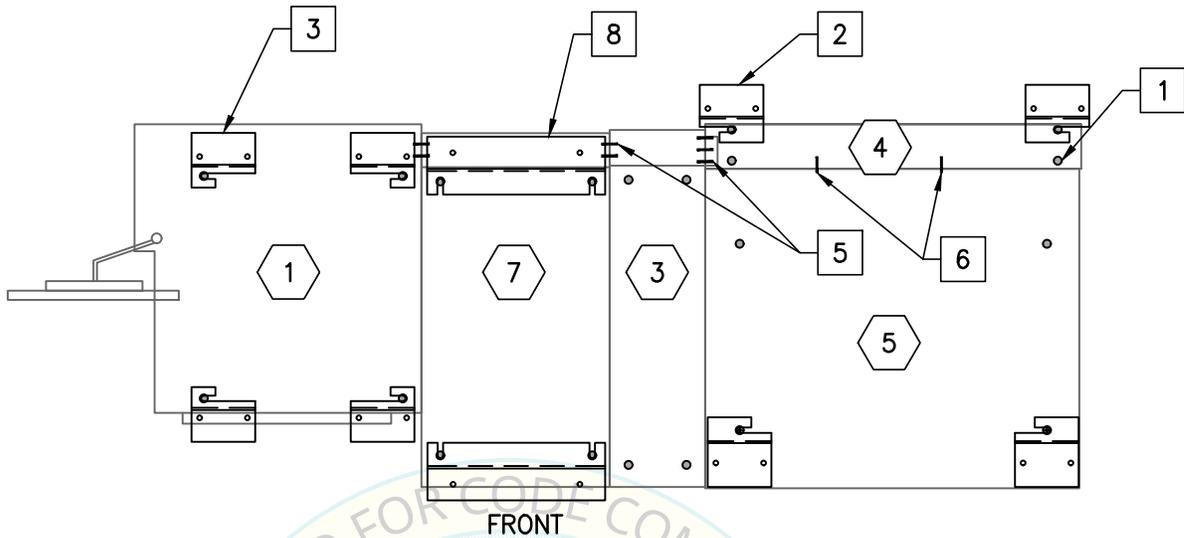


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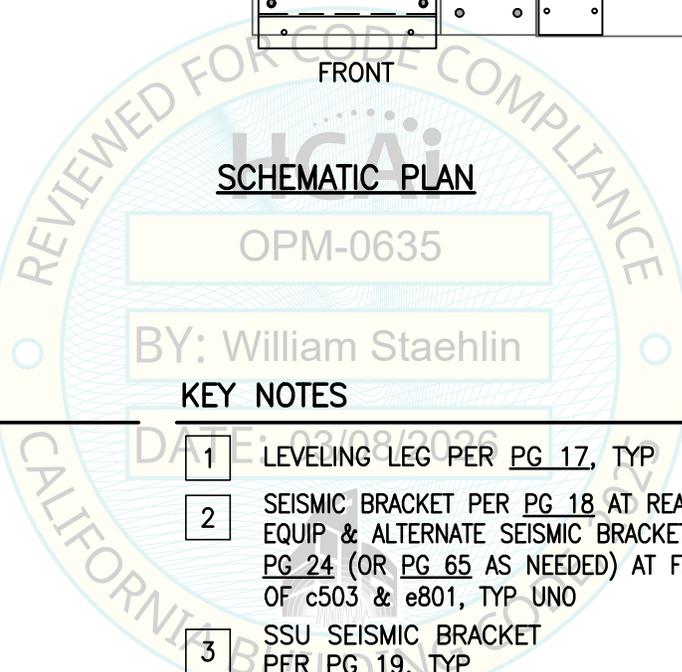
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SCHEMATIC PLAN

OPM-0635

BY: William Staehlin



COMPONENT:

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*NOT PART OF THIS CONFIGURATION

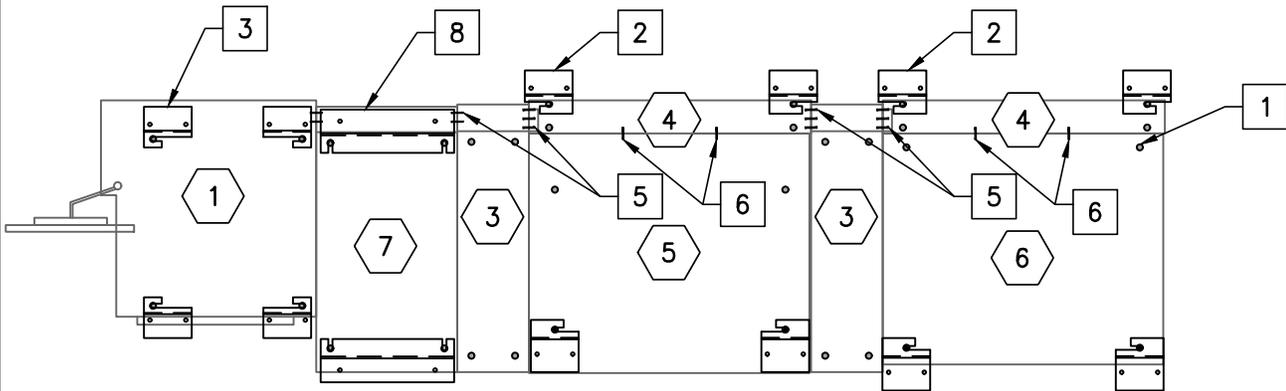


SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS
ISE neo + c503

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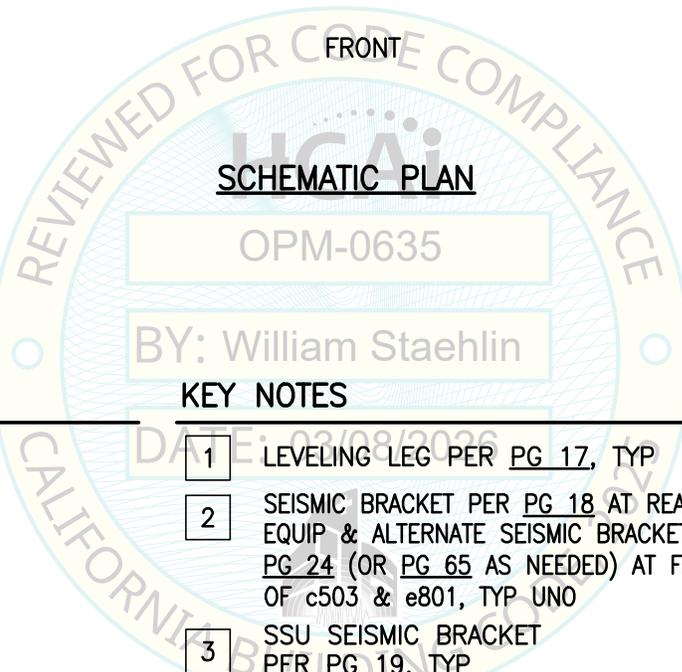


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SCHEMATIC PLAN

OPM-0635

BY: William Staehlin



COMPONENT:

- 1 SSU PER PG 11
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*NOT PART OF THIS CONFIGURATION



SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS

ISE neo + c503 + e801



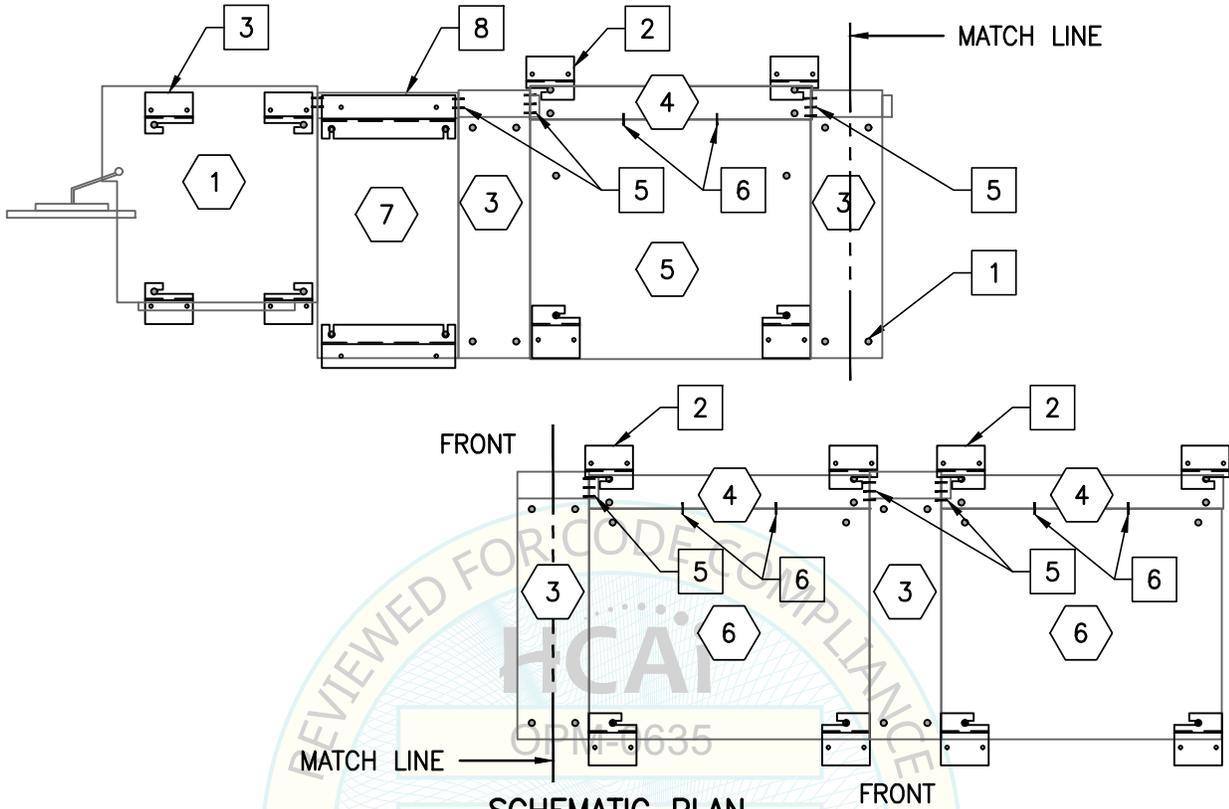
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SCHEMATIC PLAN

COMPONENT:

- 1 SSU PER PG 11
- 2* ISE PER PG 14
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SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS

ISE neo + c503 + e801 + e801



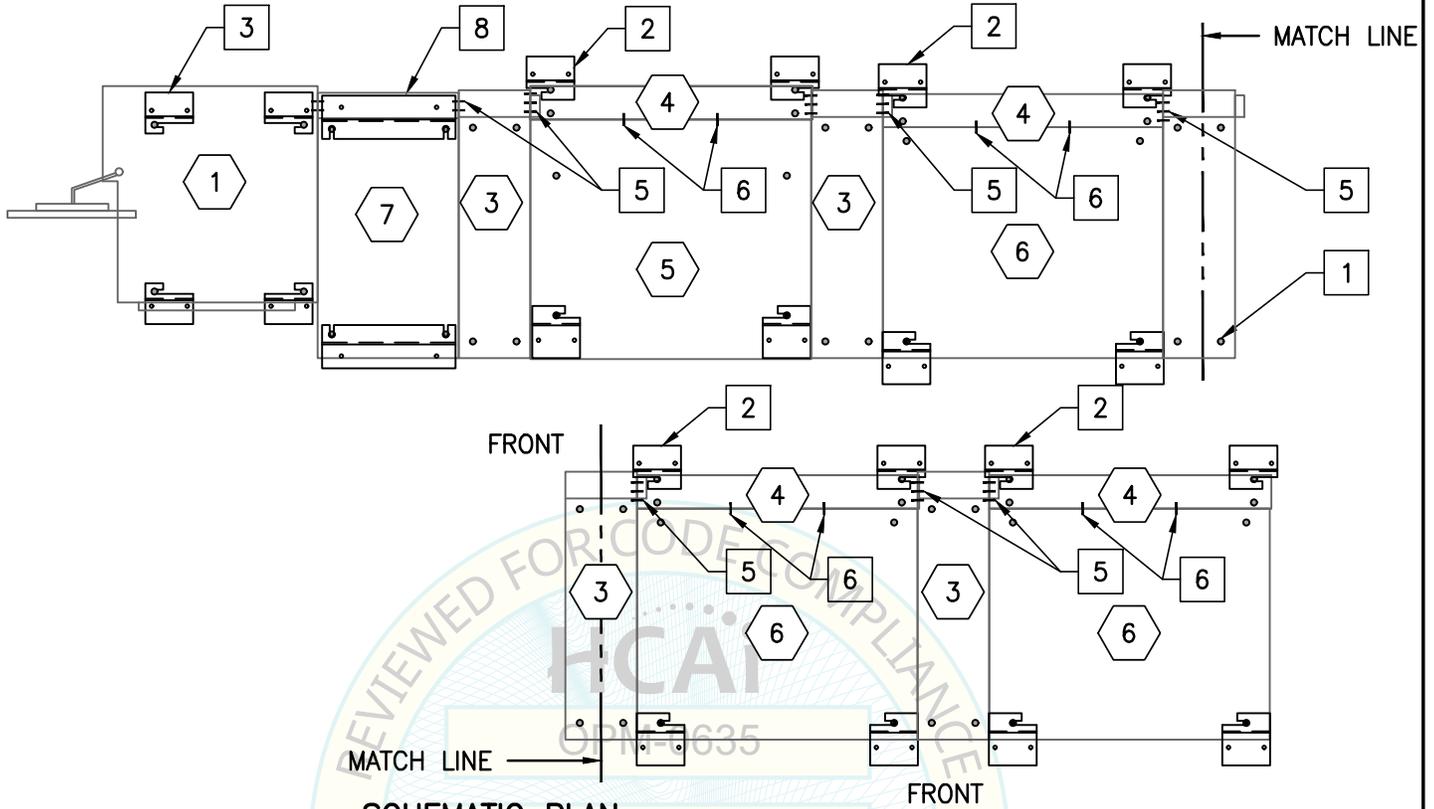
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SCHMATIC PLAN

COMPONENT:

- 1 SSU PER PG 11
- 2* ISE PER PG 14
- 3 SB PER PG 12
- 4 SBL PER PG 13
- 5 c503 PER PG 15
- 6 e801 PER PG 16
- 7 ISE neo PER PG 62
- 8* c703 PER PG 63

*NOT PART OF THIS CONFIGURATION

KEY NOTES

- 1 LEVELING LEG PER PG 17, TYP
- 2 SEISMIC BRACKET PER PG 18 AT REAR OF EQUIP & ALTERNATE SEISMIC BRACKET PER PG 24 (OR PG 65 AS NEEDED) AT FRONT OF c503 & e801, TYP UNO
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- 7 M4x6mm CS SCREW BY MFR
- 8 ISE neo SEISMIC BRACKET PER PG 64, TYP



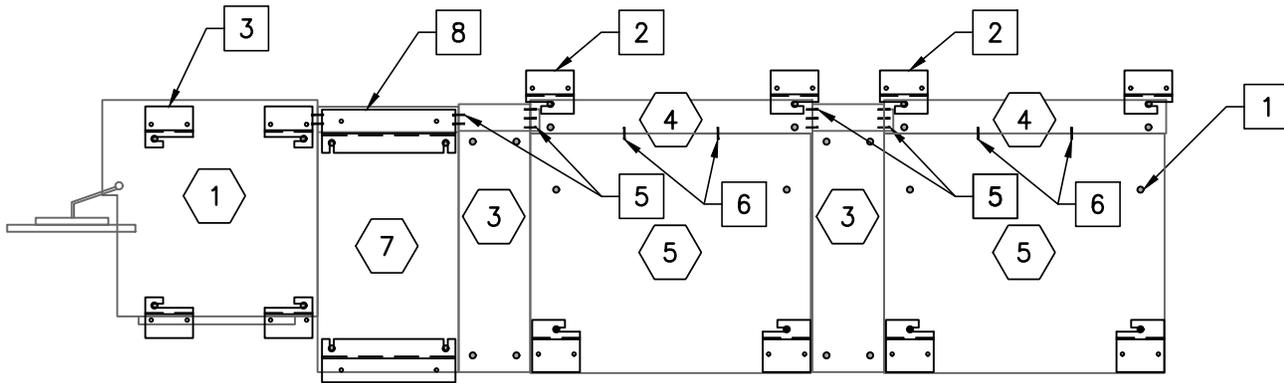
SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS

ISE neo + c503 + e801 + e801 + e801

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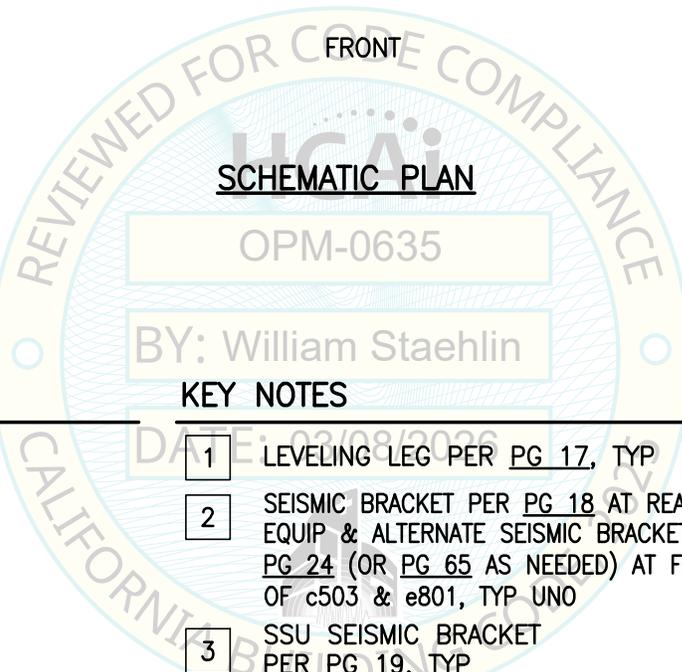


FRONT

SCHEMATIC PLAN

OPM-0635

BY: William Staehlin



COMPONENT:

- 1 SSU PER PG 11
- 2* ISE PER PG 14
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SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS

ISE neo + c503 + c503



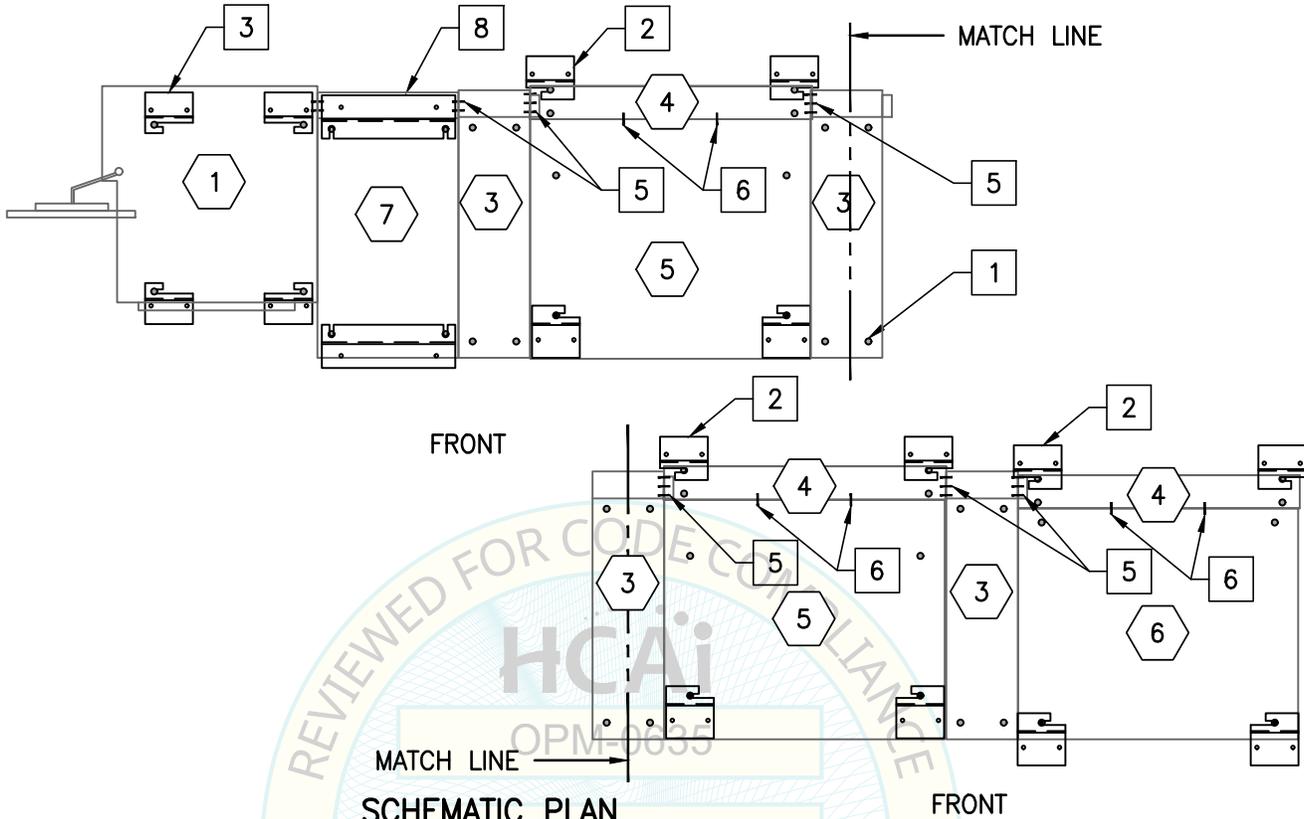
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SCHEMATIC PLAN

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SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS

ISE neo + c503 + c503 + e801



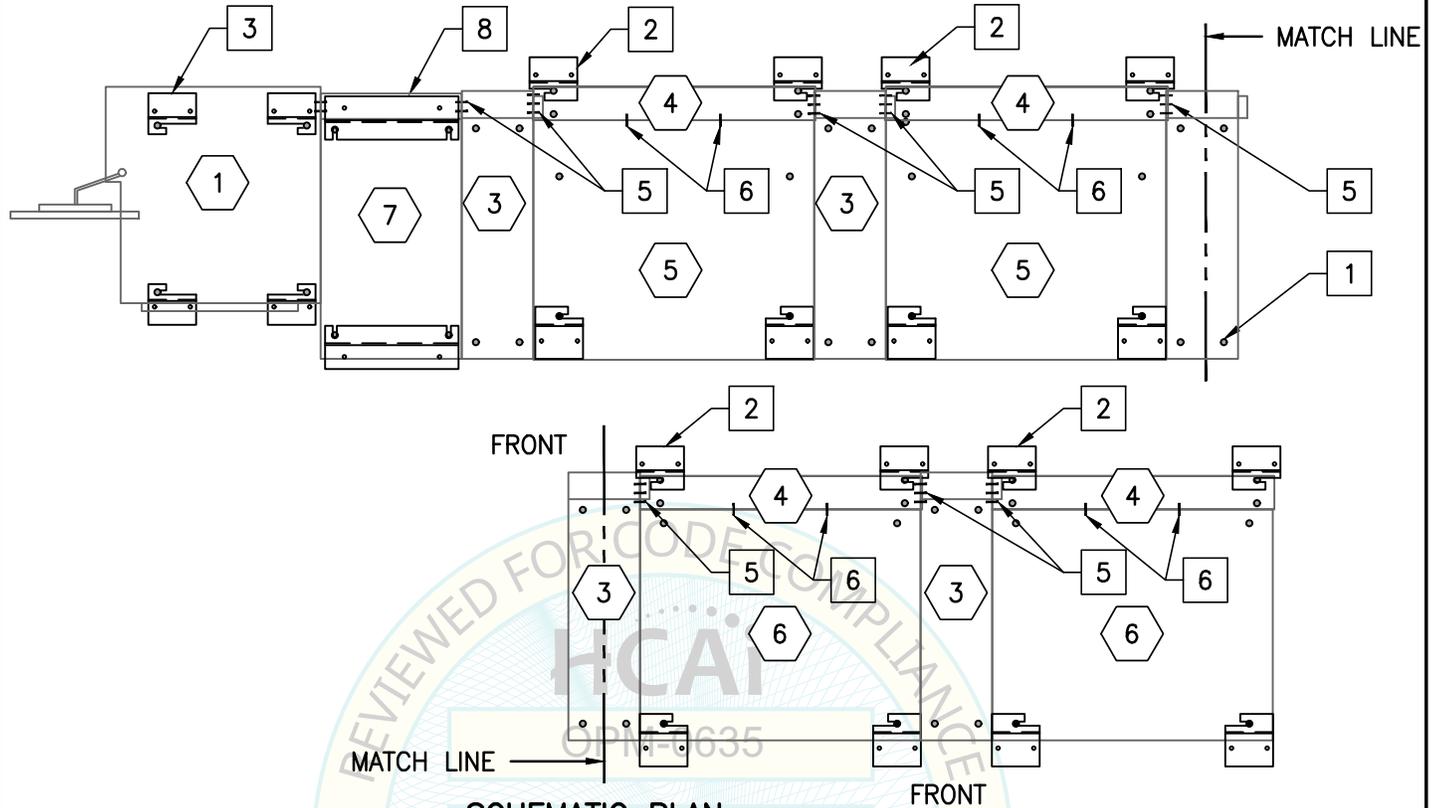
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SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS

ISE neo + c503 + c503 + e801 + e801



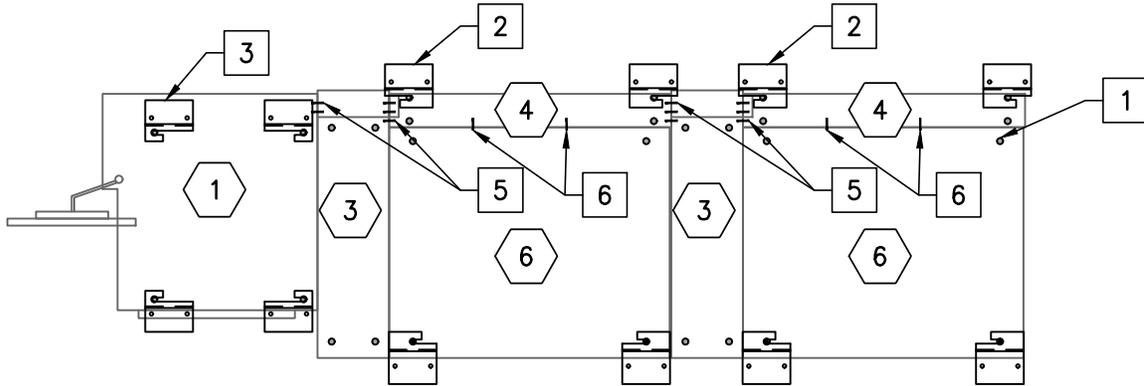
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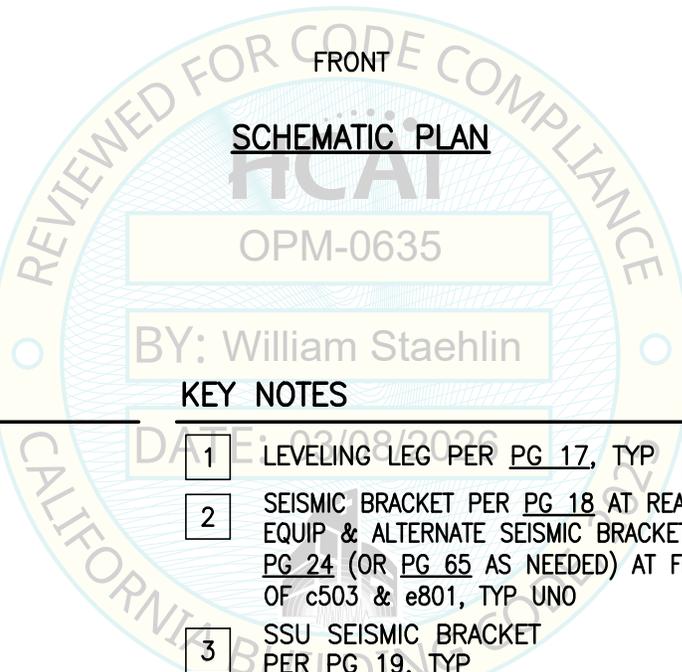


FRONT

SCHMATIC PLAN

OPM-0635

BY: William Staehlin



COMPONENT:

KEY NOTES

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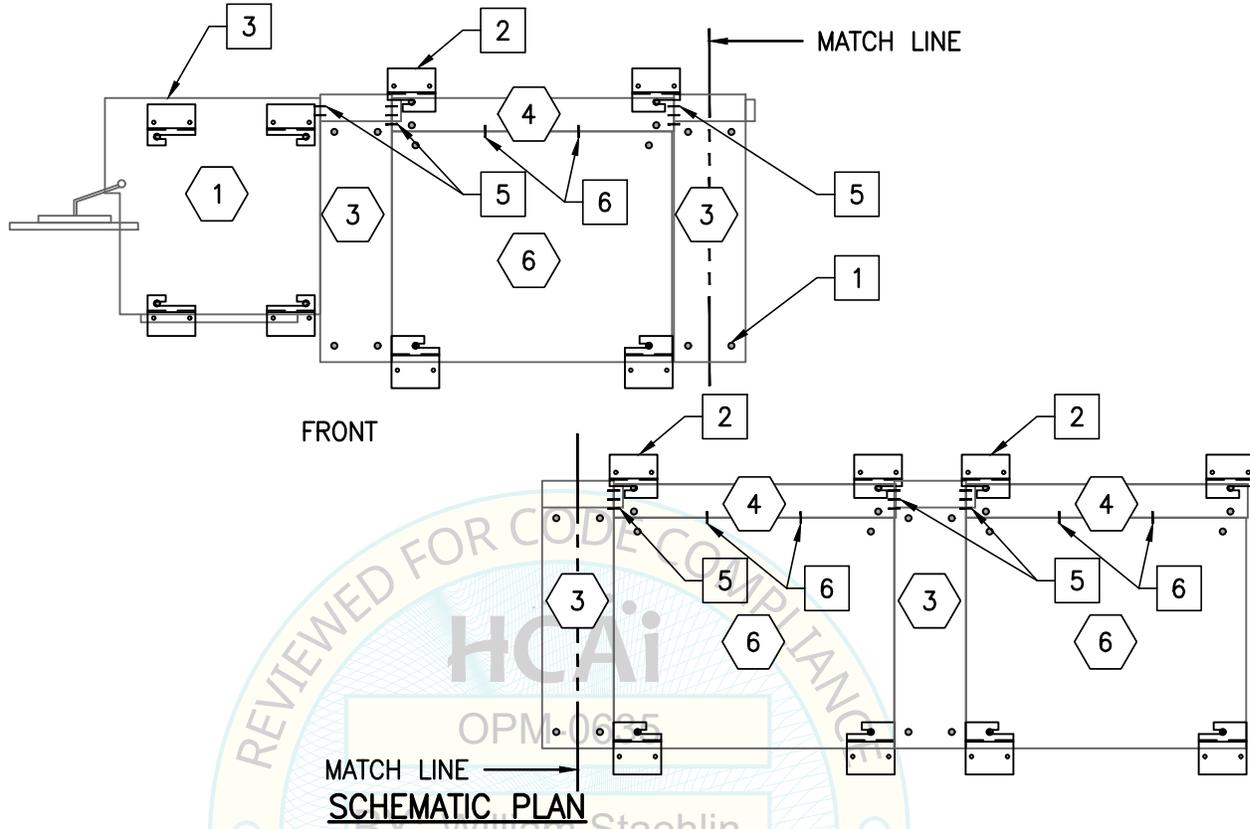
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SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS
e801 + e801

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SCHMATIC PLAN

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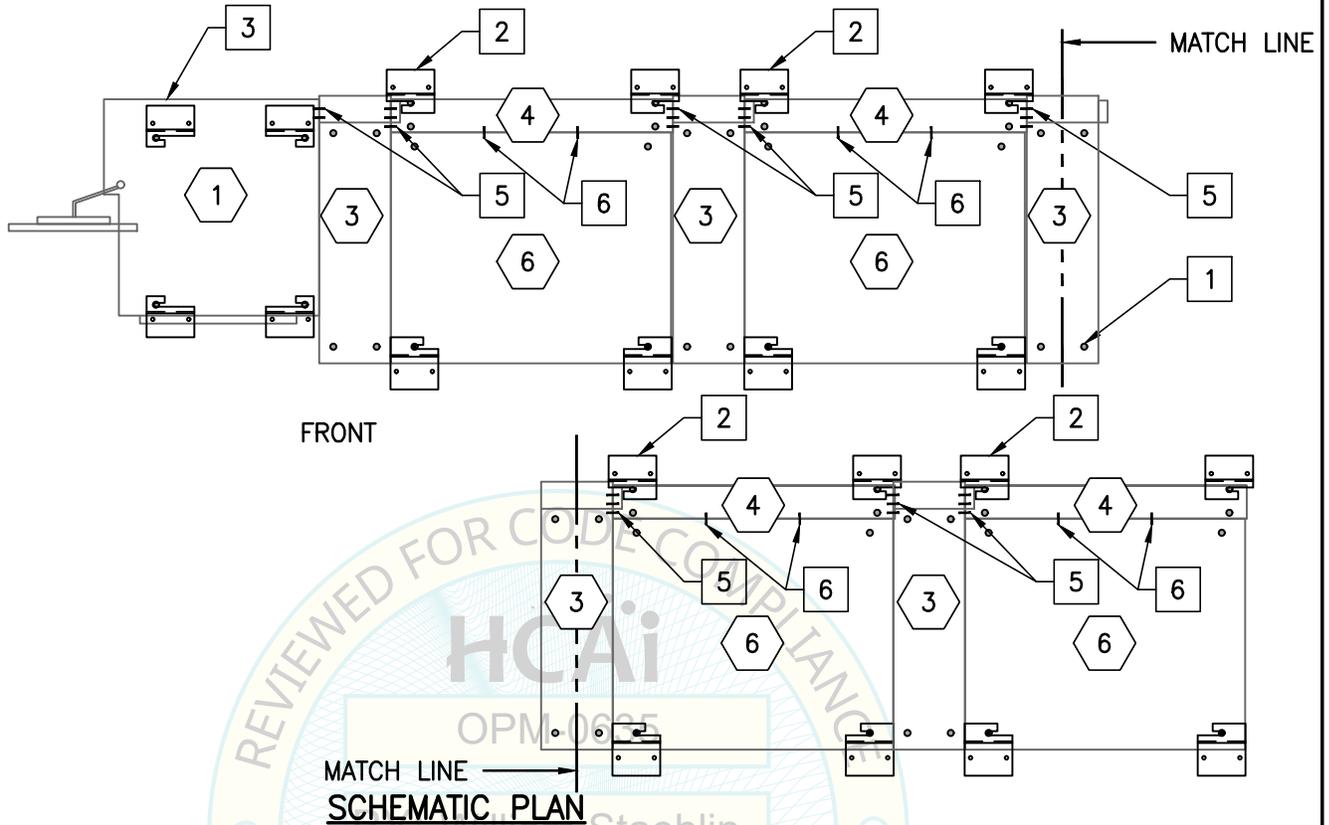


SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS
e801 + e801 + e801

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SCHMATIC PLAN

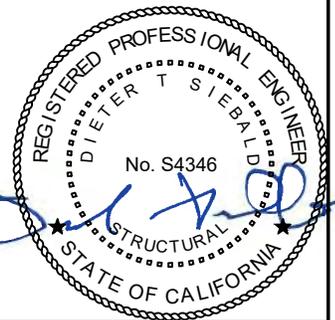
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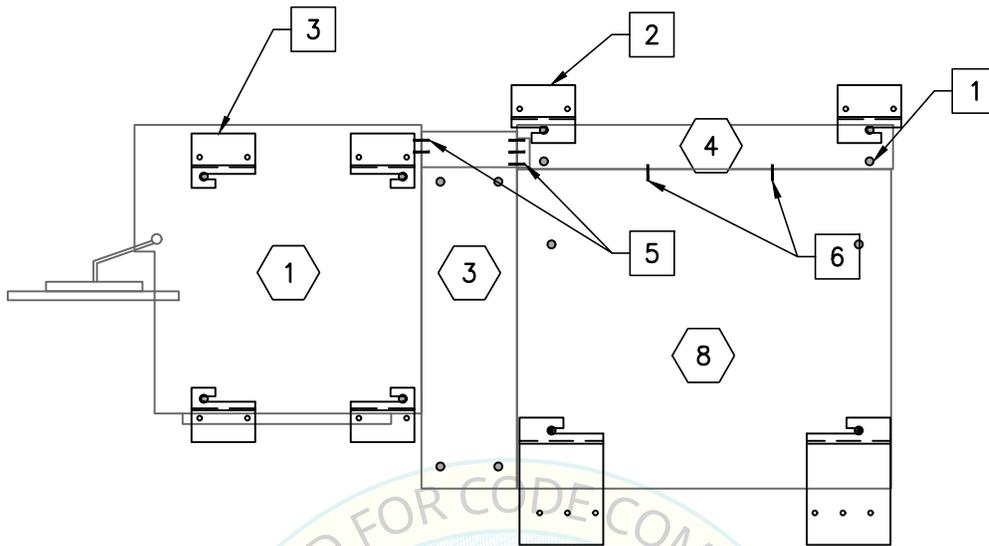


SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS
e801 + e801 + e801 + e801

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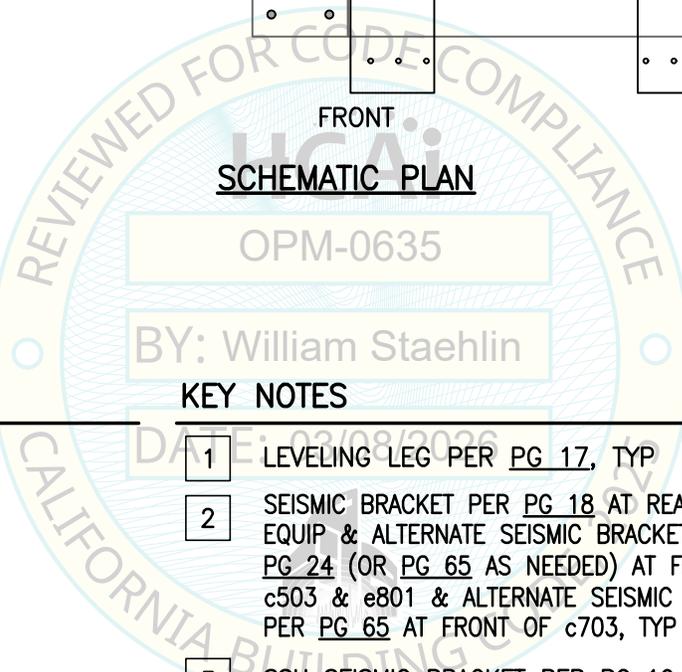


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SCHEMATIC PLAN

OPM-0635

BY: William Staehlin



COMPONENT:

KEY NOTES

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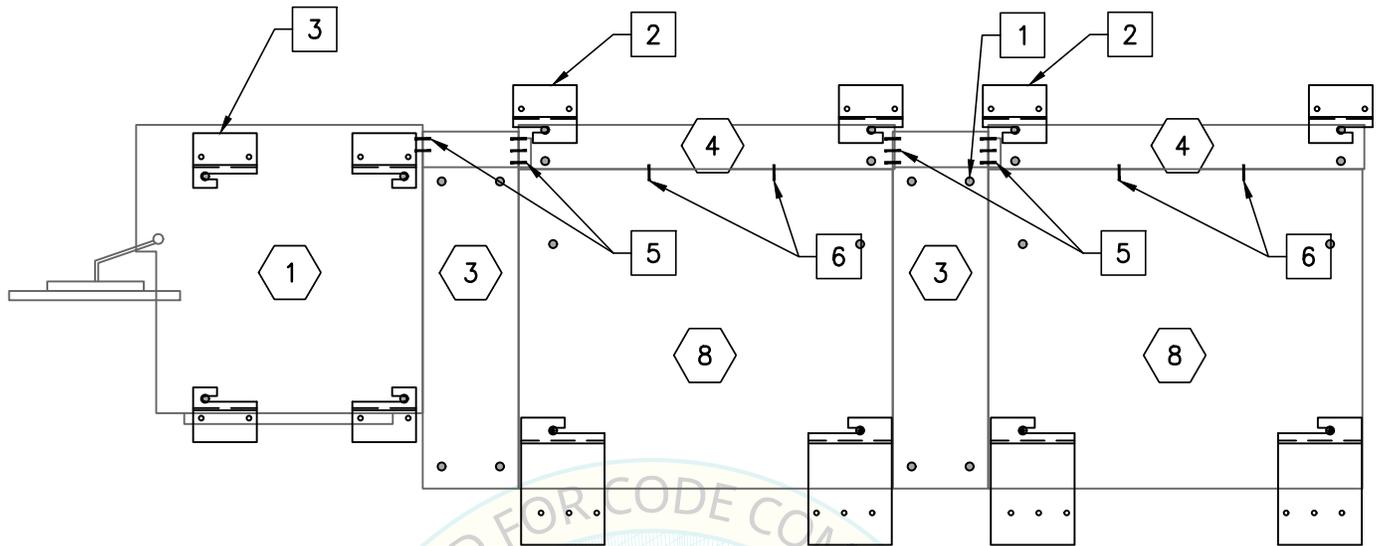


SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS
c703

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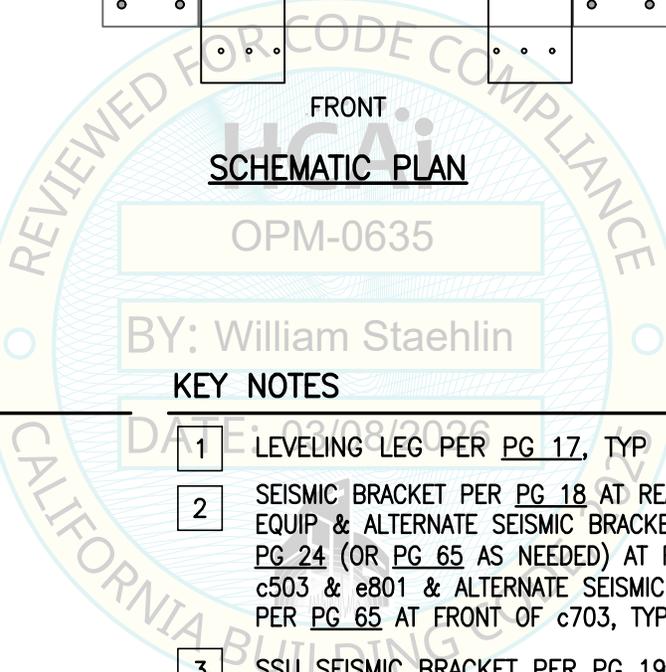
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SCHEMATIC PLAN

OPM-0635

BY: William Staehlin



COMPONENT:

KEY NOTES

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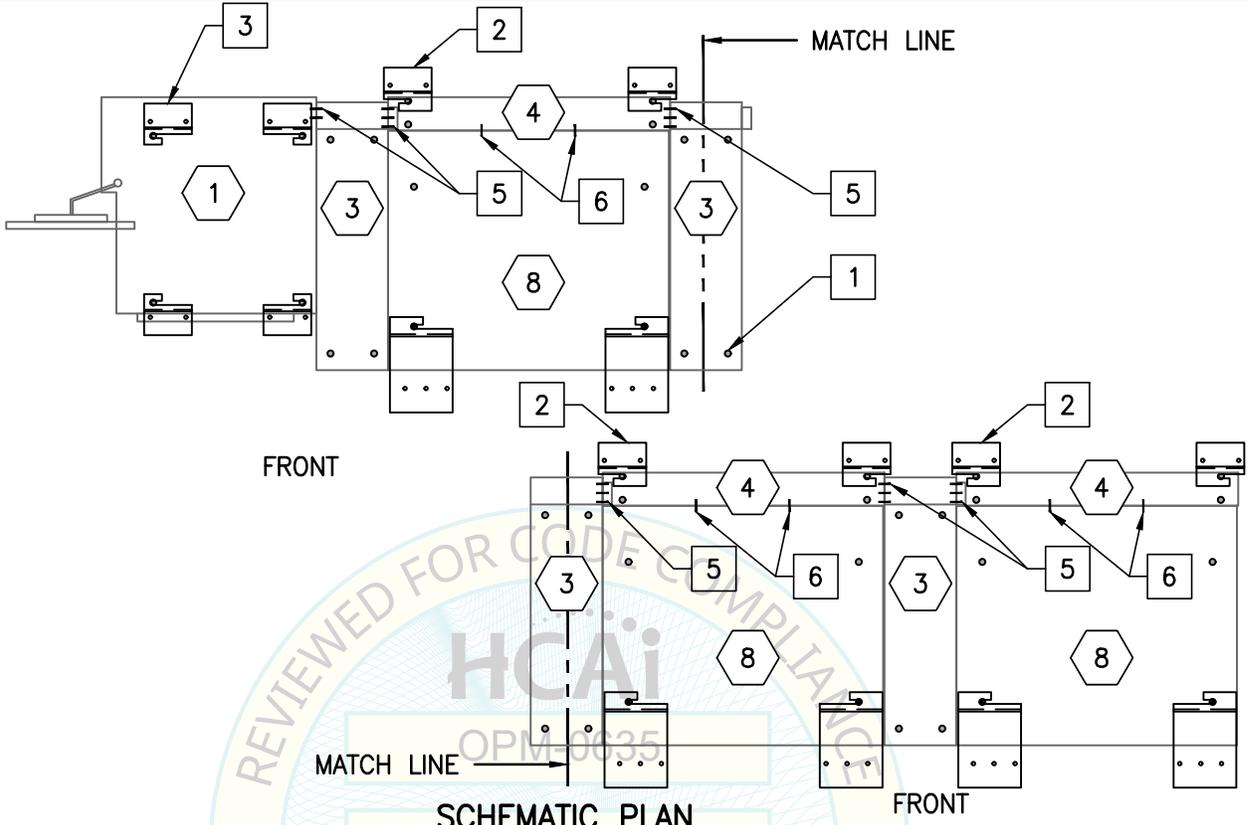


SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS
c703 + c703

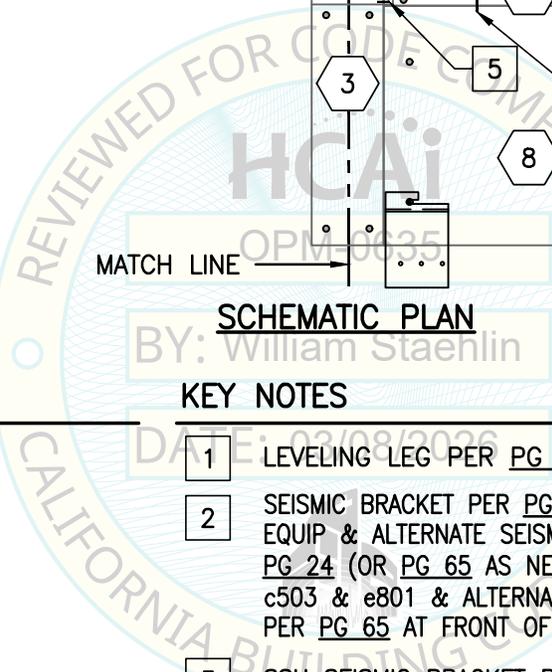
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SCHEMATIC PLAN



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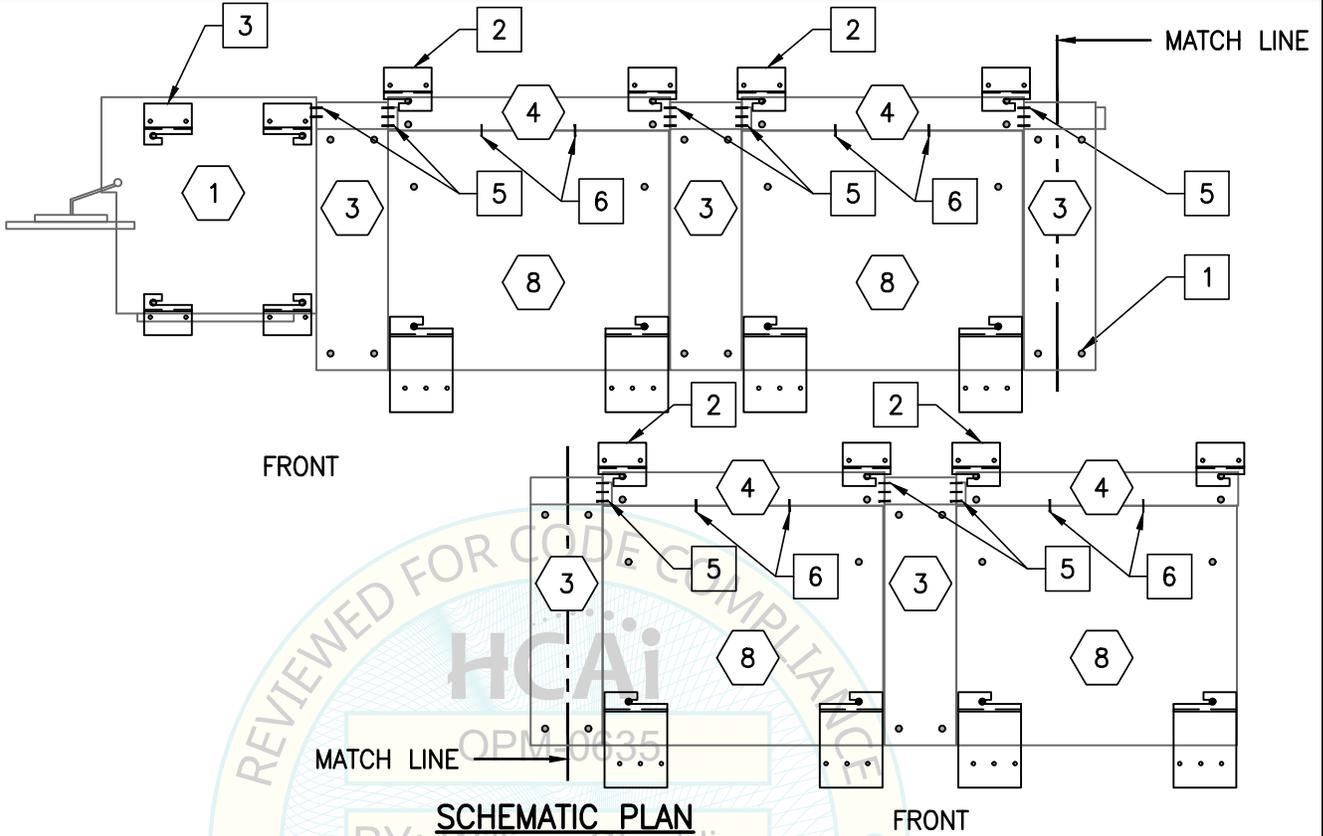


SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS
c703 + c703 + c703

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SCHEMATIC PLAN

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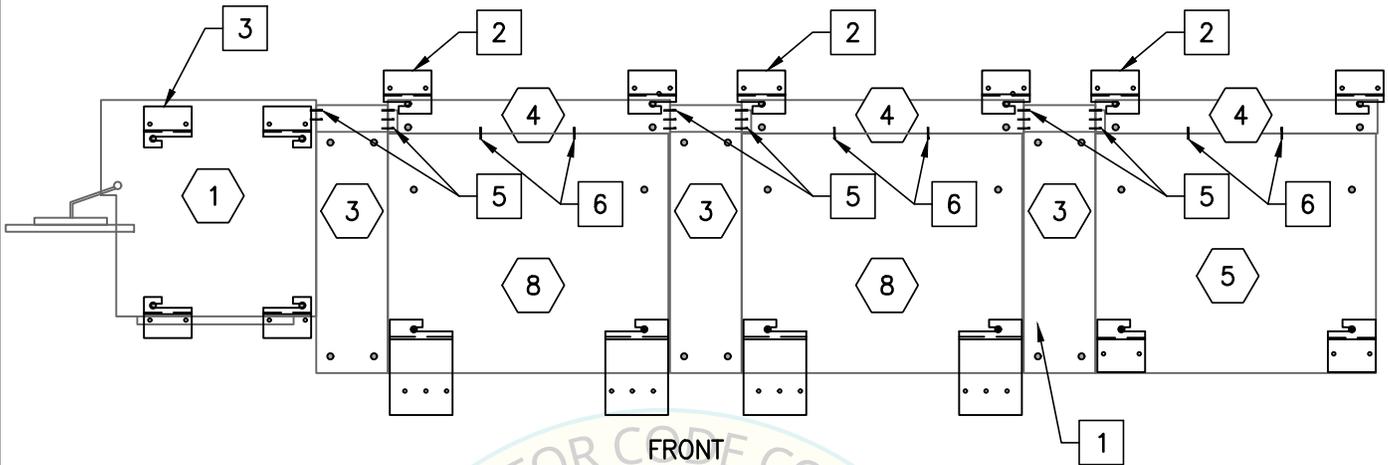
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SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS
c703 + c703 + c703 + c703

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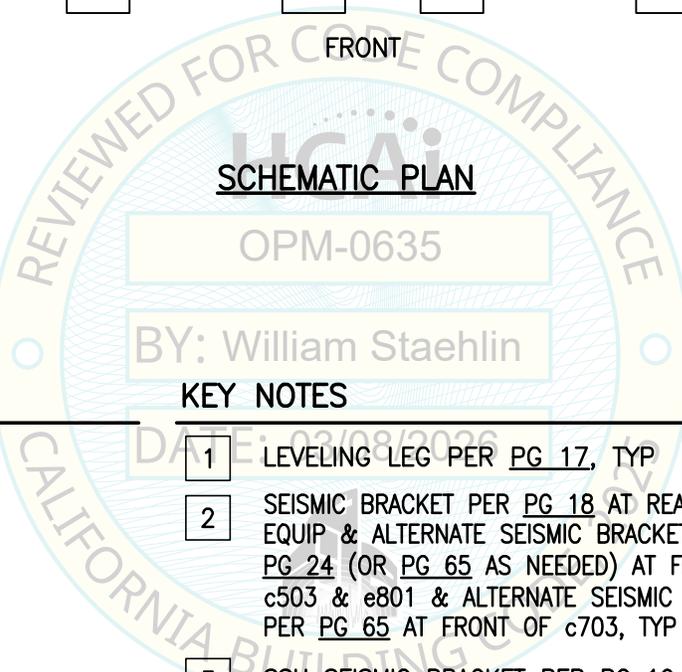
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SCHEMATIC PLAN

OPM-0635

BY: William Staehlin



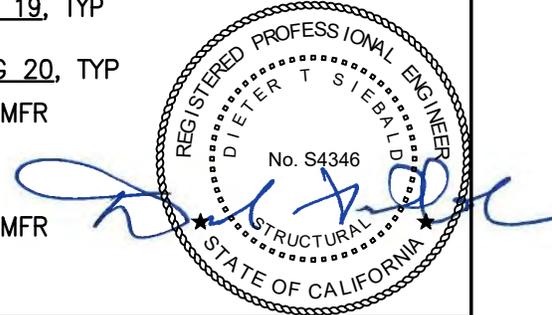
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SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS
c703 + c703 + c503



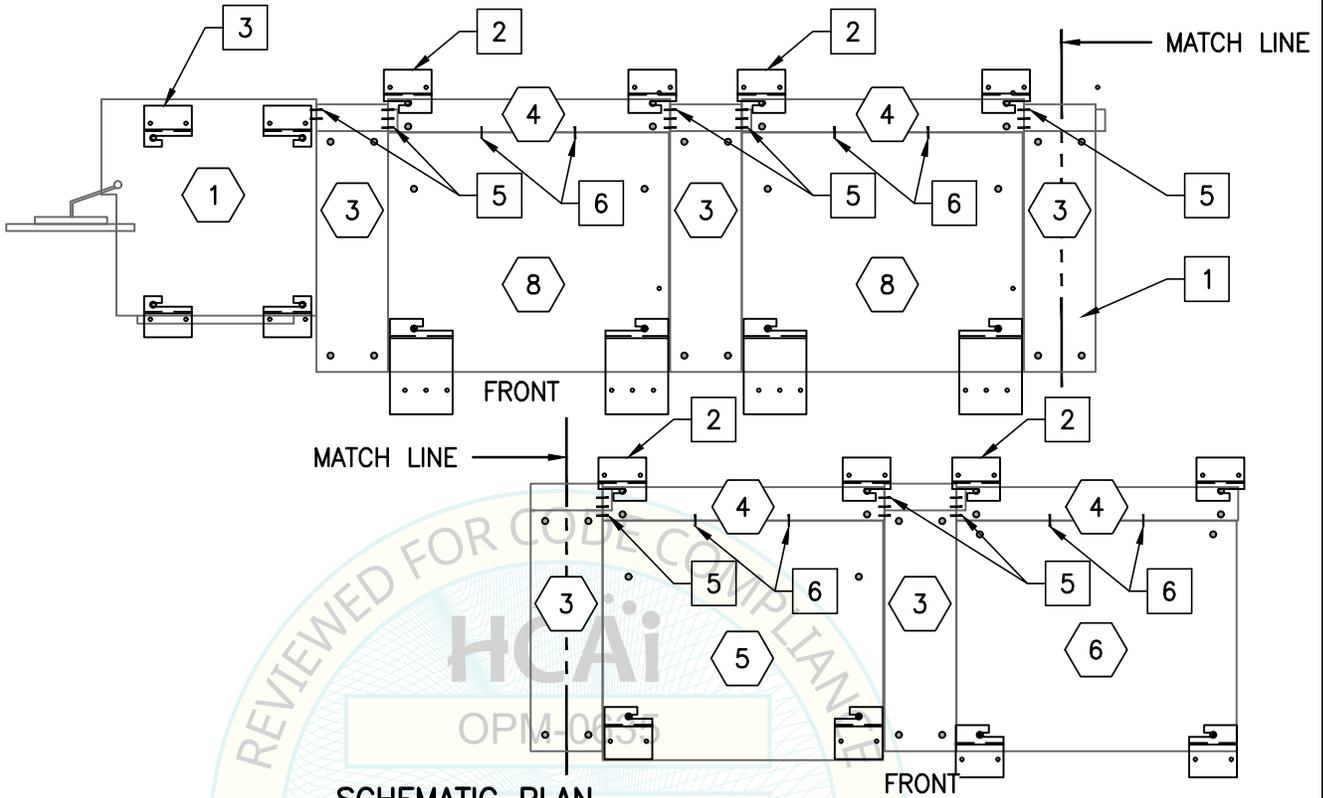
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SCHMATIC PLAN

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*NOT PART OF THIS CONFIGURATION

KEY NOTES

- 1 LEVELING LEG PER PG 17, TYP
- 2 SEISMIC BRACKET PER PG 18 AT REAR OF EQUIP & ALTERNATE SEISMIC BRACKET PER PG 24 (OR PG 65 AS NEEDED) AT FRONT OF c503 & e801 & ALTERNATE SEISMIC BRACKET PER PG 65 AT FRONT OF c703, TYP UNO
- 3 SSU SEISMIC BRACKET PER PG 19, TYP
- 4 ISE SEISMIC BRACKET PER PG 20, TYP
M8x16mm SUS304 BOLT BY MFR
(REFER TO UNIT "PLAN & ELEVATIONS" FOR LOCATIONS
- 5 M8x20mm SUS304 BOLT BY MFR
- 6 M4x6mm CS SCREW BY MFR
- 7
- 8 ISE neo SEISMIC BRACKET PER PG 64, TYP

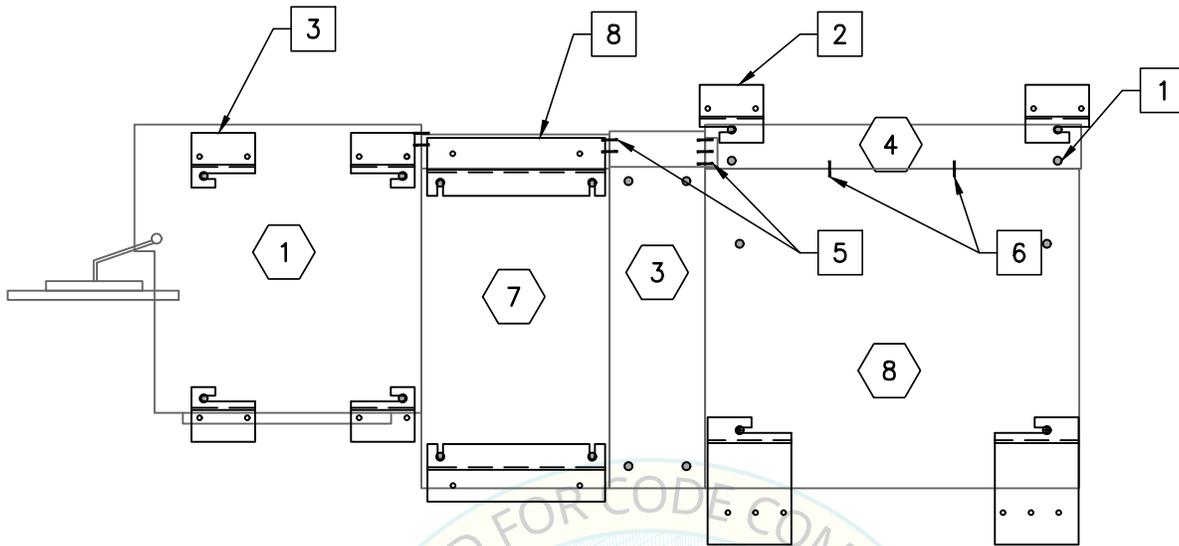


SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS
c703 + c703 + c503 + e801

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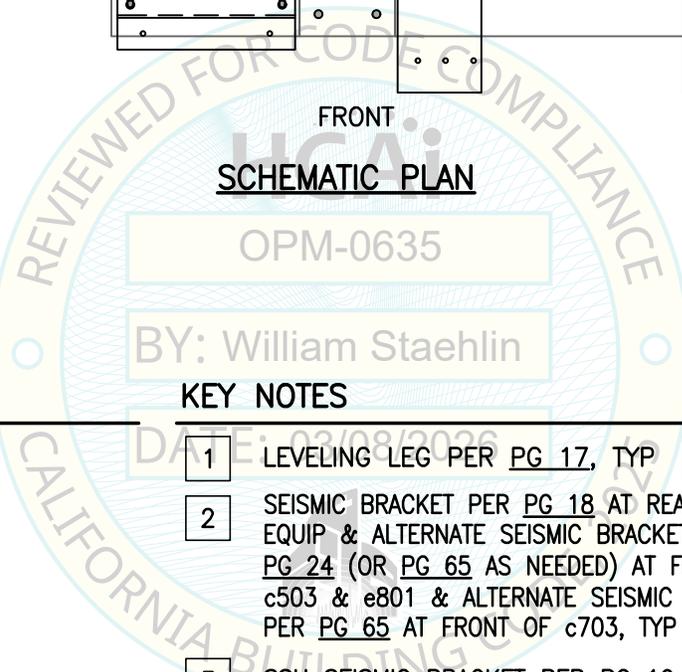


FRONT

SCHEMATIC PLAN

OPM-0635

BY: William Staehlin



COMPONENT:

KEY NOTES

- 1 SSU PER PG 11
- 2* ISE PER PG 14
- 3 SB PER PG 12
- 4 SBL PER PG 13
- 5* c503 PER PG 15
- 6* e801 PER PG 16
- 7 ISE neo PER PG 62
- 8 c703 PER PG 63

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- 7 ISE neo SEISMIC BRACKET PER PG 64, TYP

*NOT PART OF THIS CONFIGURATION



SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS

ISE neo + c703



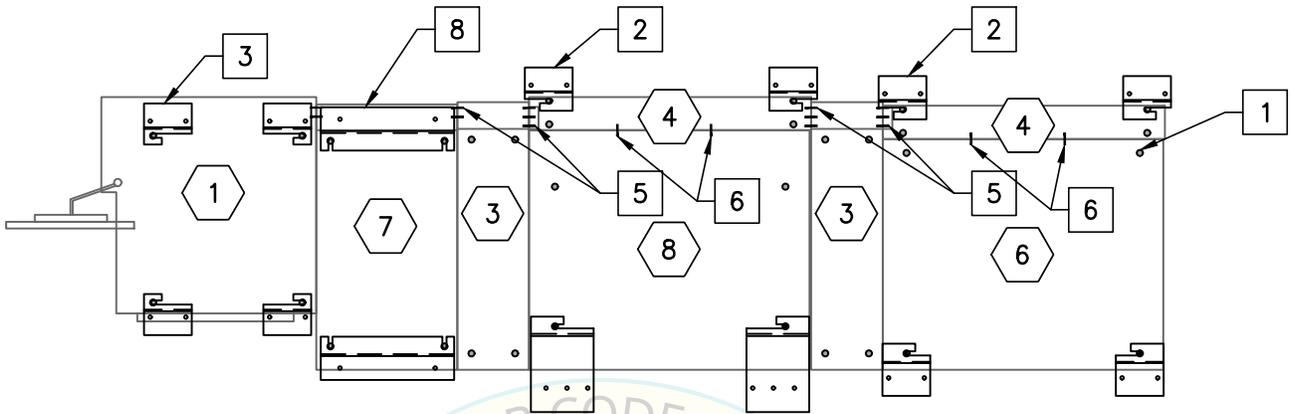
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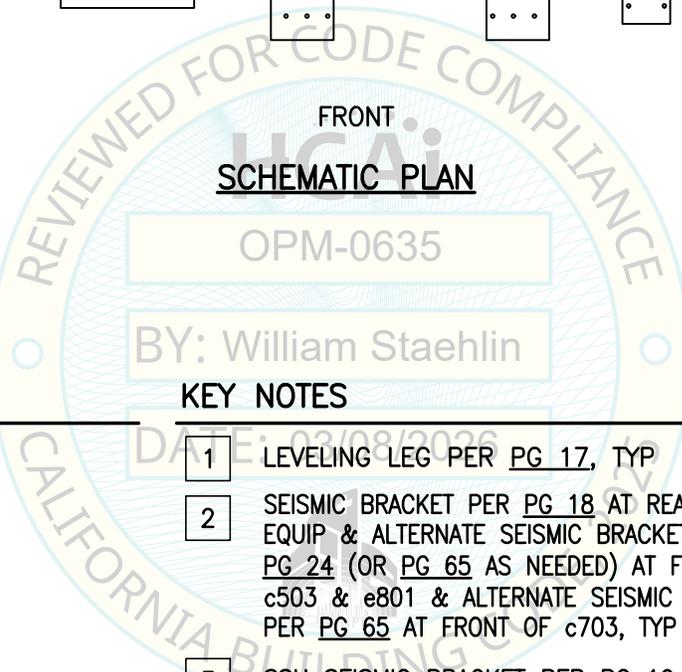
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FRONT
SCHEMATIC PLAN

OPM-0635

BY: William Staehlin



COMPONENT:

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- 2* ISE PER PG 14
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- 5* c503 PER PG 15
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*NOT PART OF THIS CONFIGURATION

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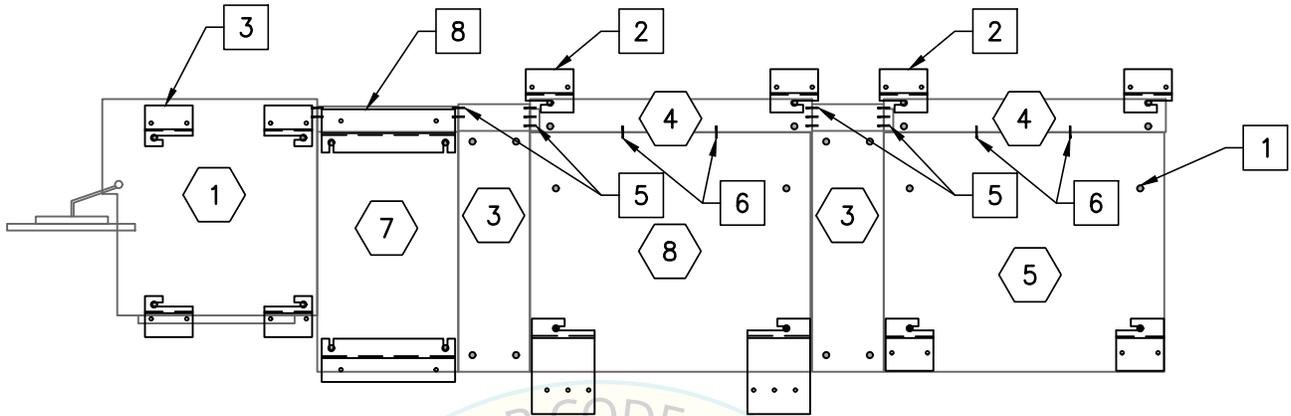


SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS
ISE neo + c703 + e801

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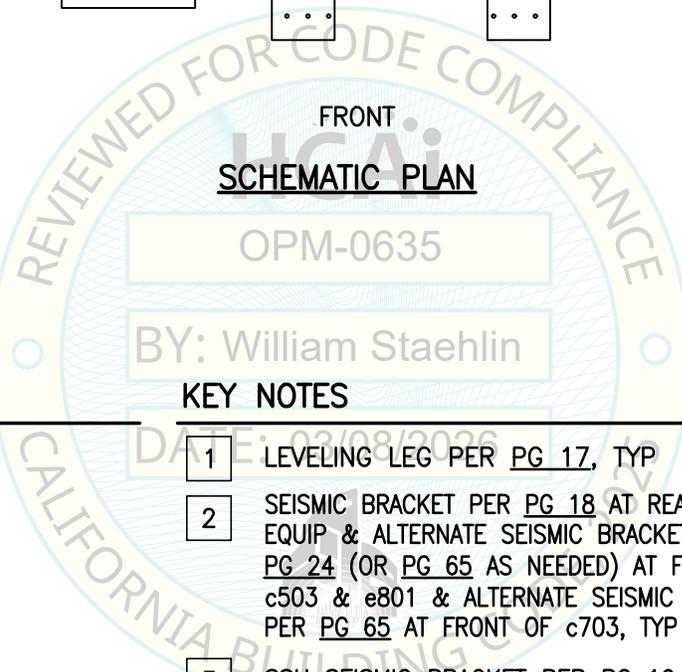
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SCHEMATIC PLAN

OPM-0635

BY: William Staehlin



COMPONENT:

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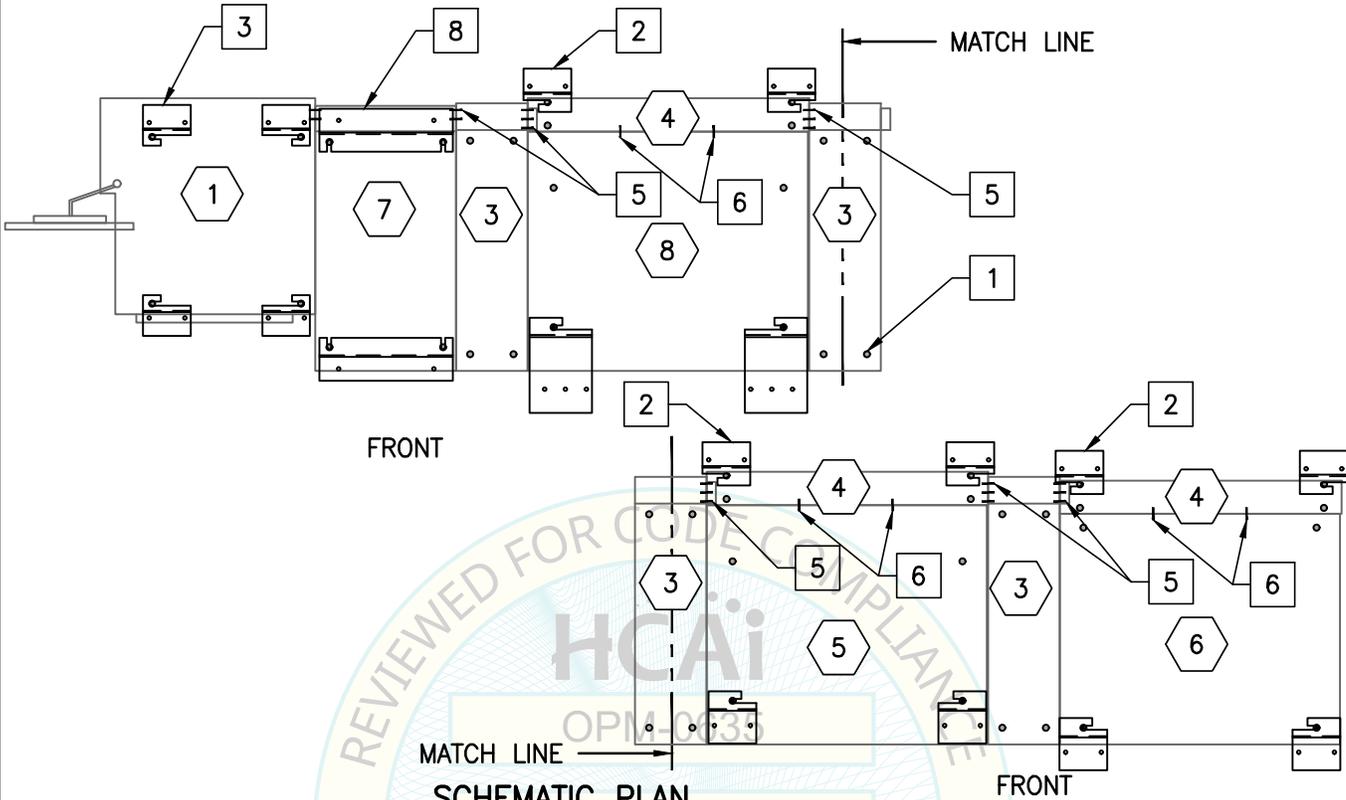


SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS
ISE neo + c703 + c503

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SCHMATIC PLAN

COMPONENT:

KEY NOTES

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- 2* ISE PER PG 14
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SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS

ISE neo + c703 + c503+e801



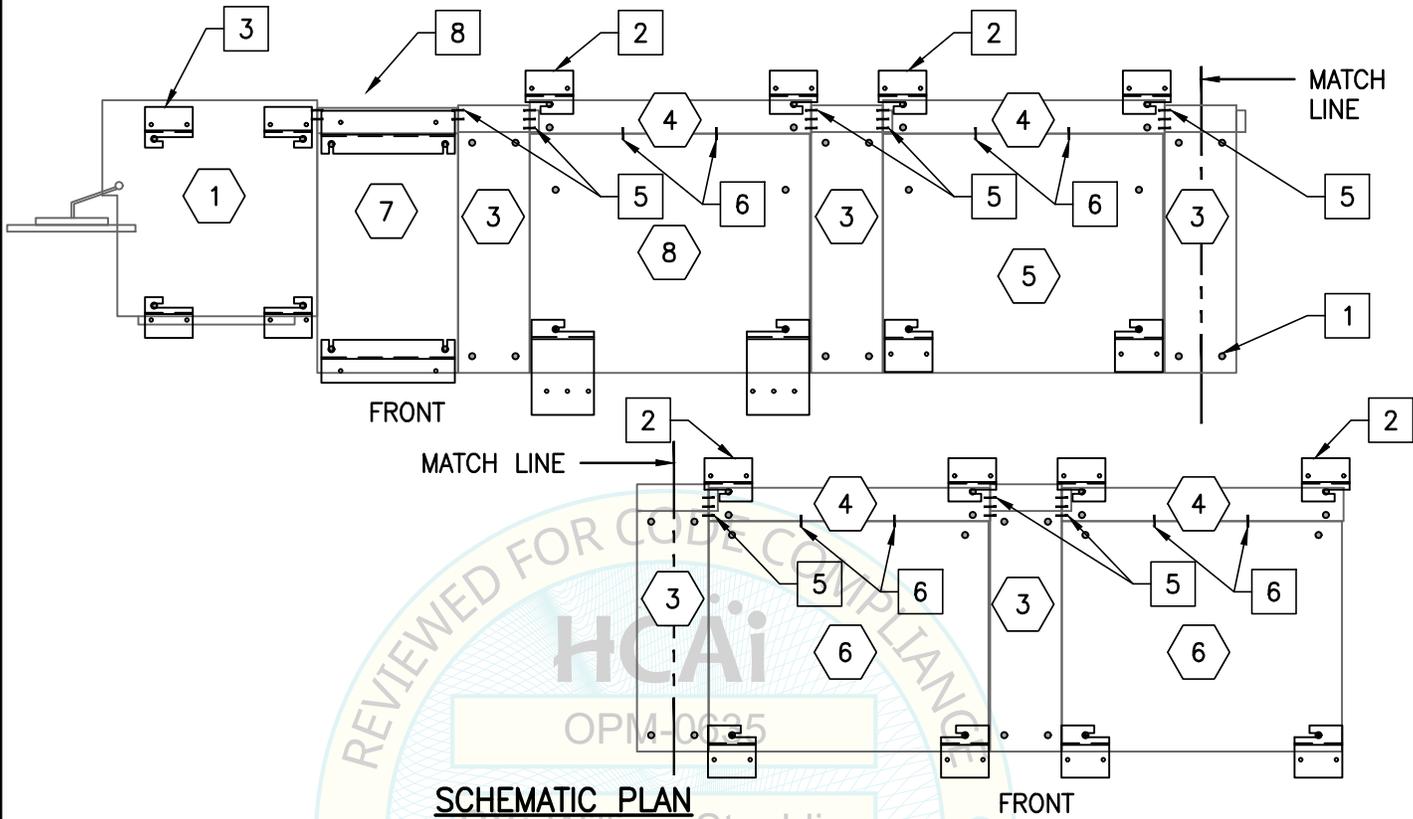
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SCHMATIC PLAN

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SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS

ISE neo + c703 + c503 + e801+e801



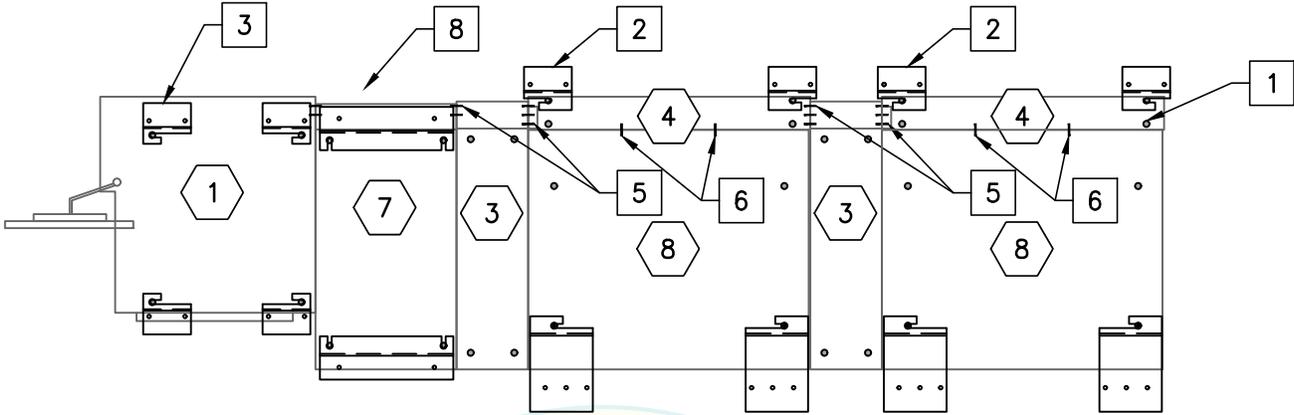
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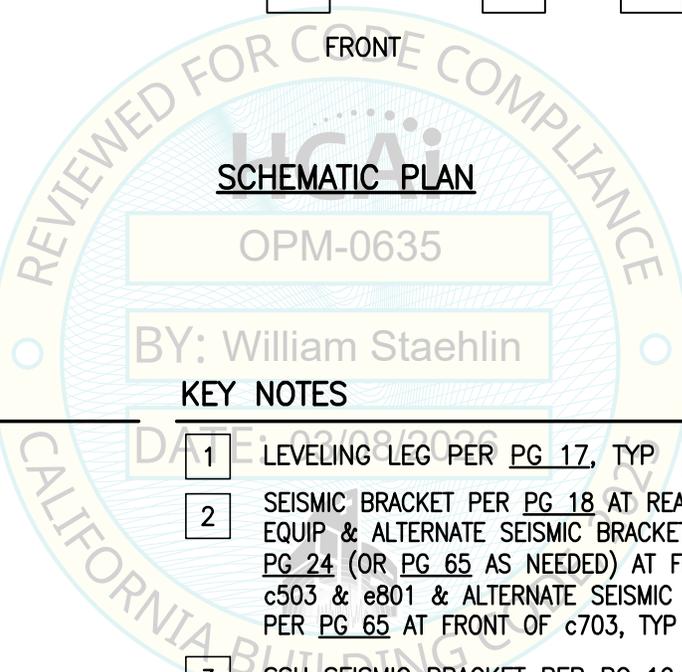


FRONT

SCHEMATIC PLAN

OPM-0635

BY: William Staehlin



COMPONENT:

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SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS

ISE neo + c703 + c703



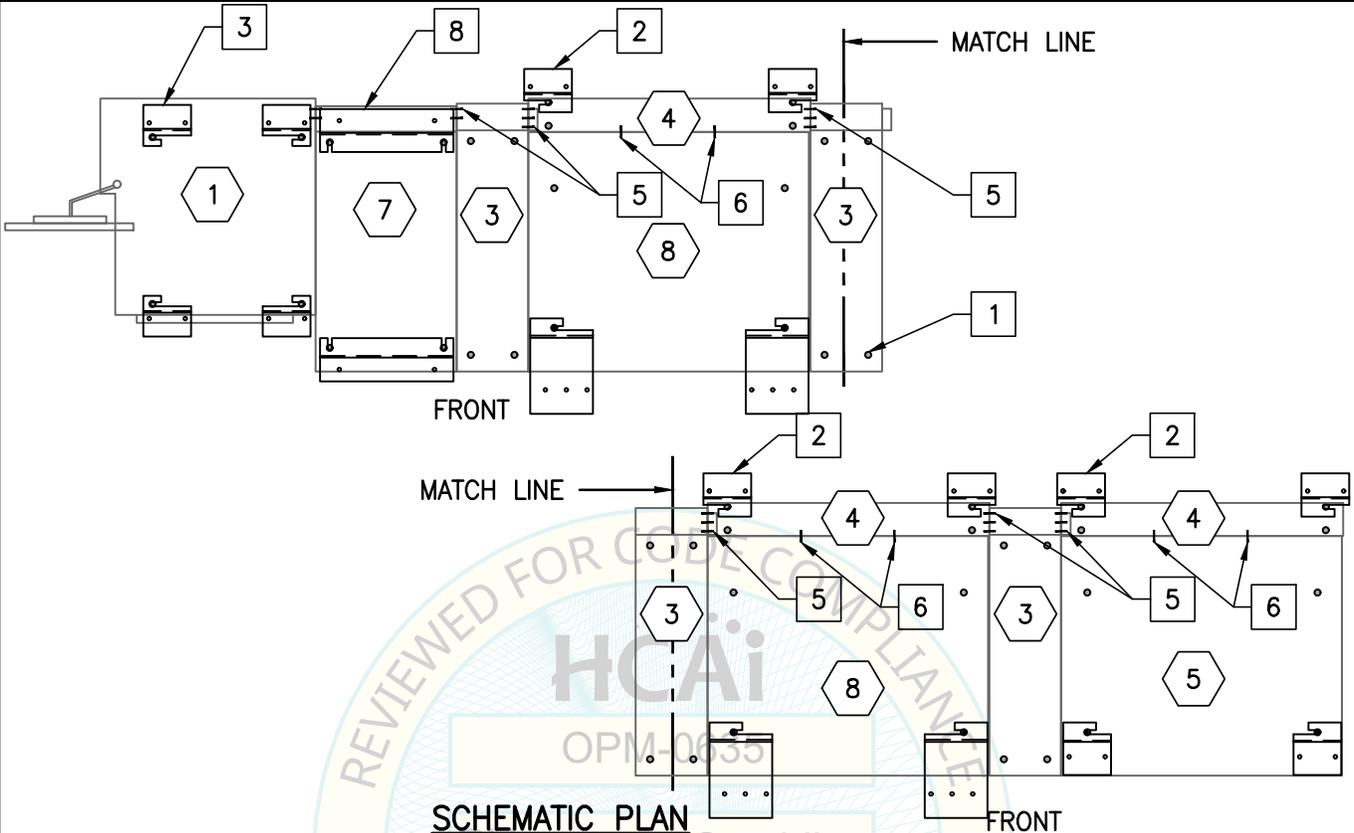
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SCHEMATIC PLAN

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- 1 SSU PER PG 11
- 2 ISE PER PG 14
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*NOT PART OF THIS CONFIGURATION
SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS
ISE neo + c703 + c703 + c503



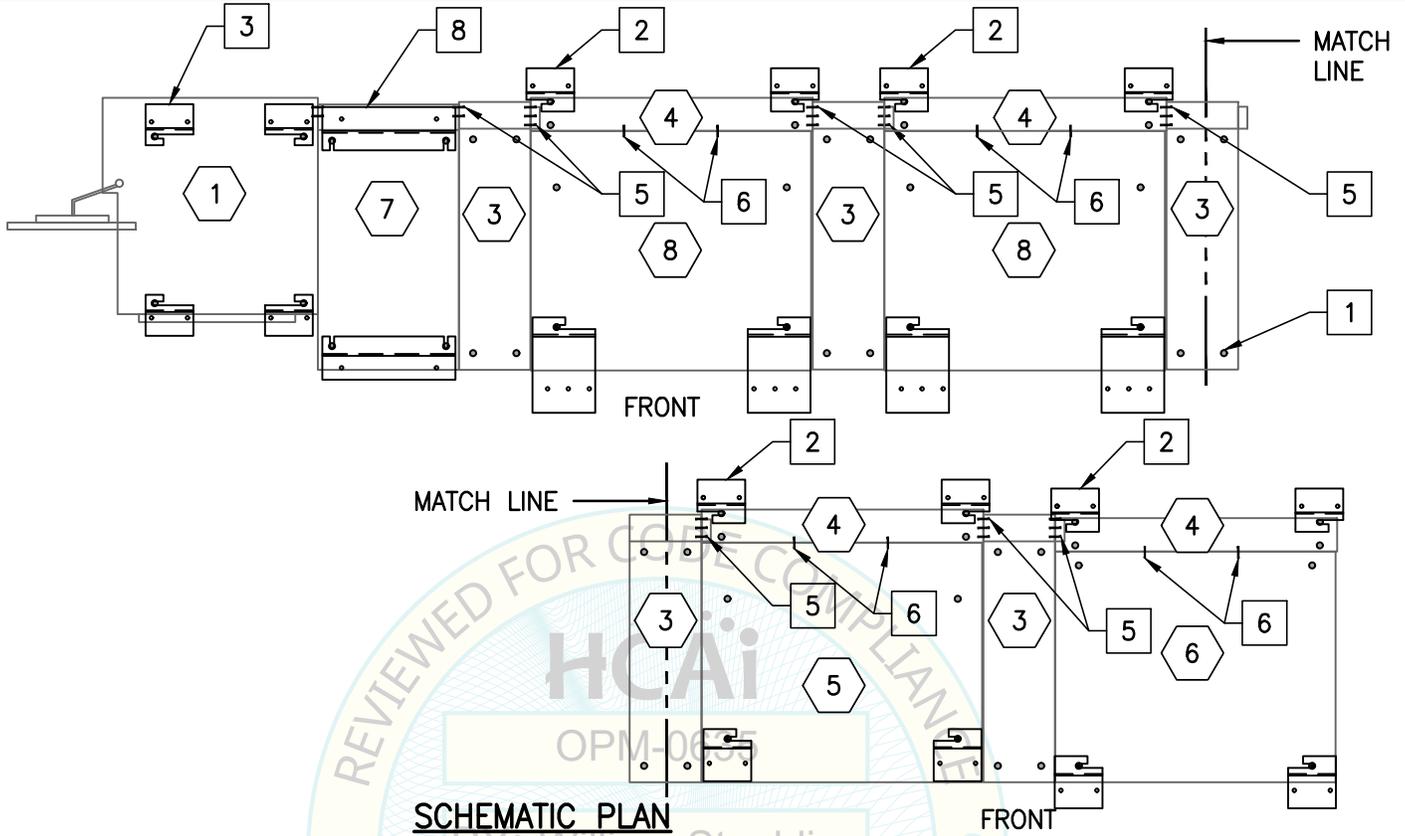
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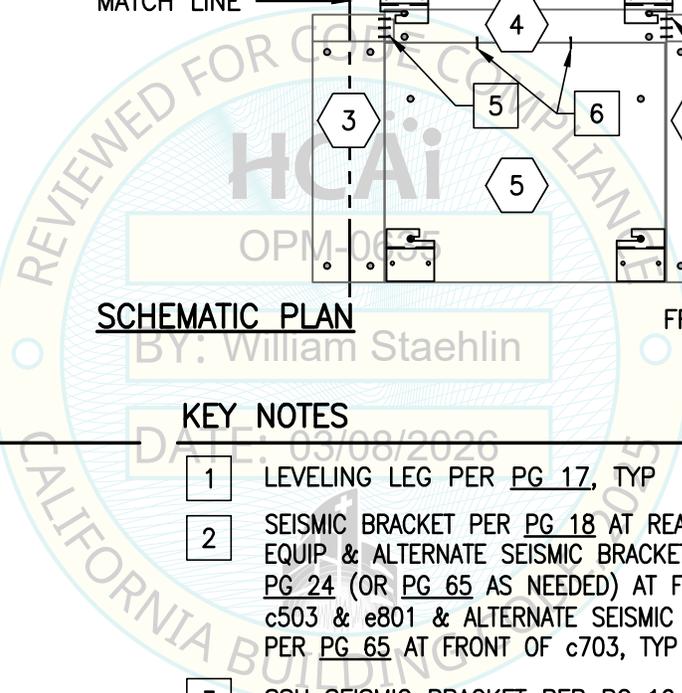
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SCHEMATIC PLAN



COMPONENT:

- 1 SSU PER PG 11
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SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS
ISE neo + c703 + c703 + c503 + e801



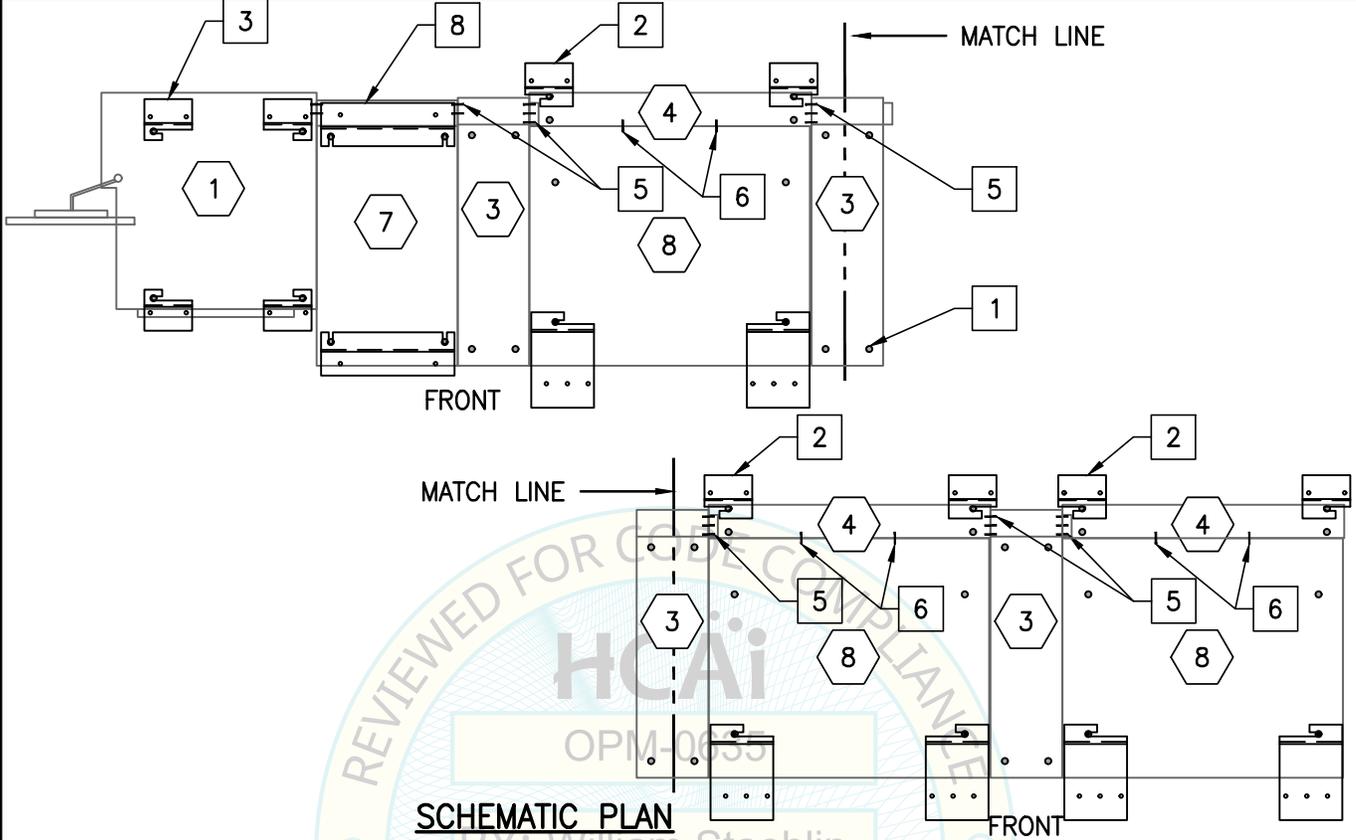
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SCHEMATIC PLAN

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SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS

ISE neo + c703 + c703 + c703



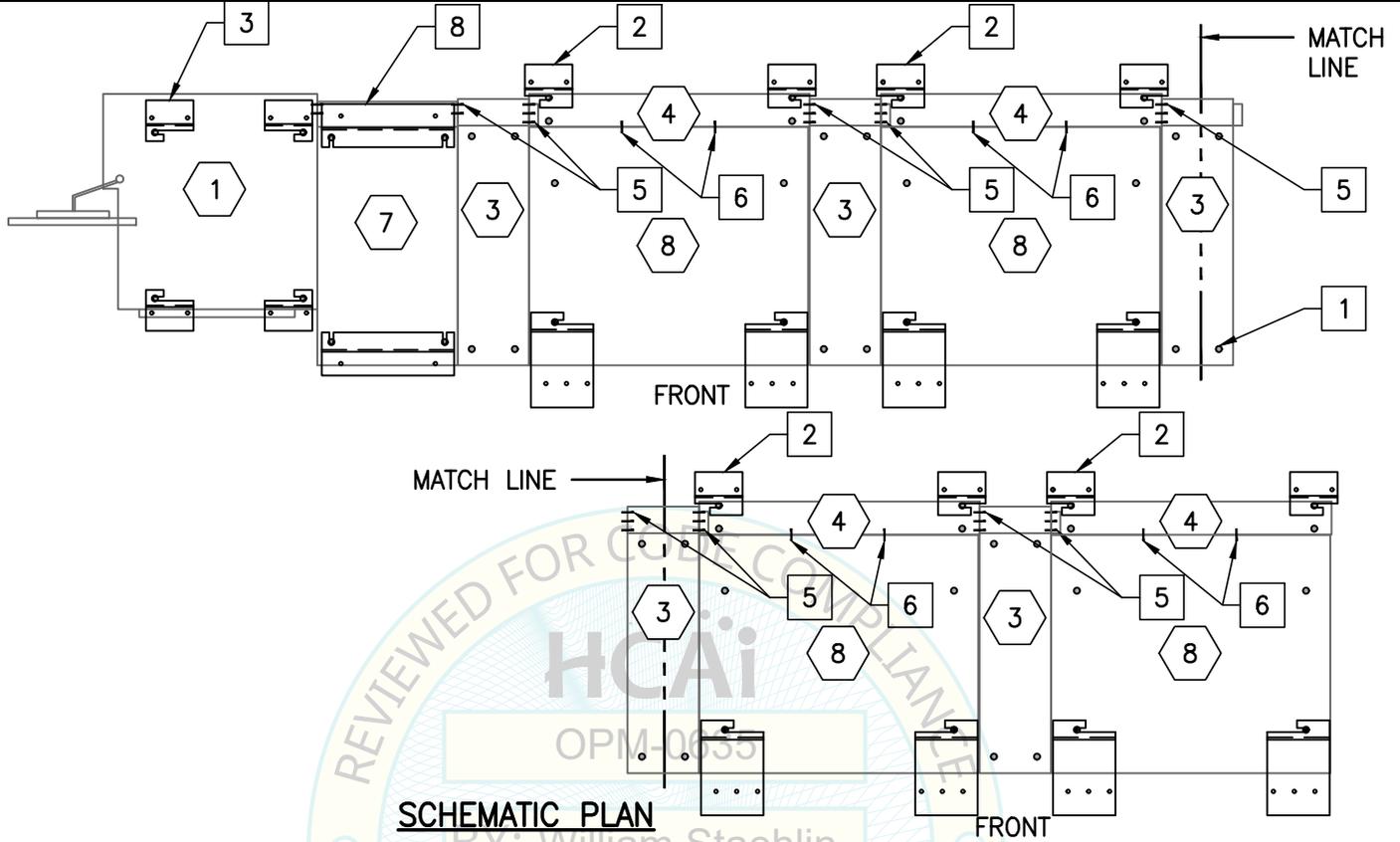
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SCHMATIC PLAN

COMPONENT:

KEY NOTES

| | | | | | |
|----|--------------------------|---|---|---|--|
| 1 | SSU PER <u>PG 11</u> | 1 | LEVELING LEG PER <u>PG 17</u> , TYP | 8 | ISE neo SEISMIC BRACKET PER <u>PG 64</u> , TYP |
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SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS

ISE neo + c703 + c703 + c703 + c703

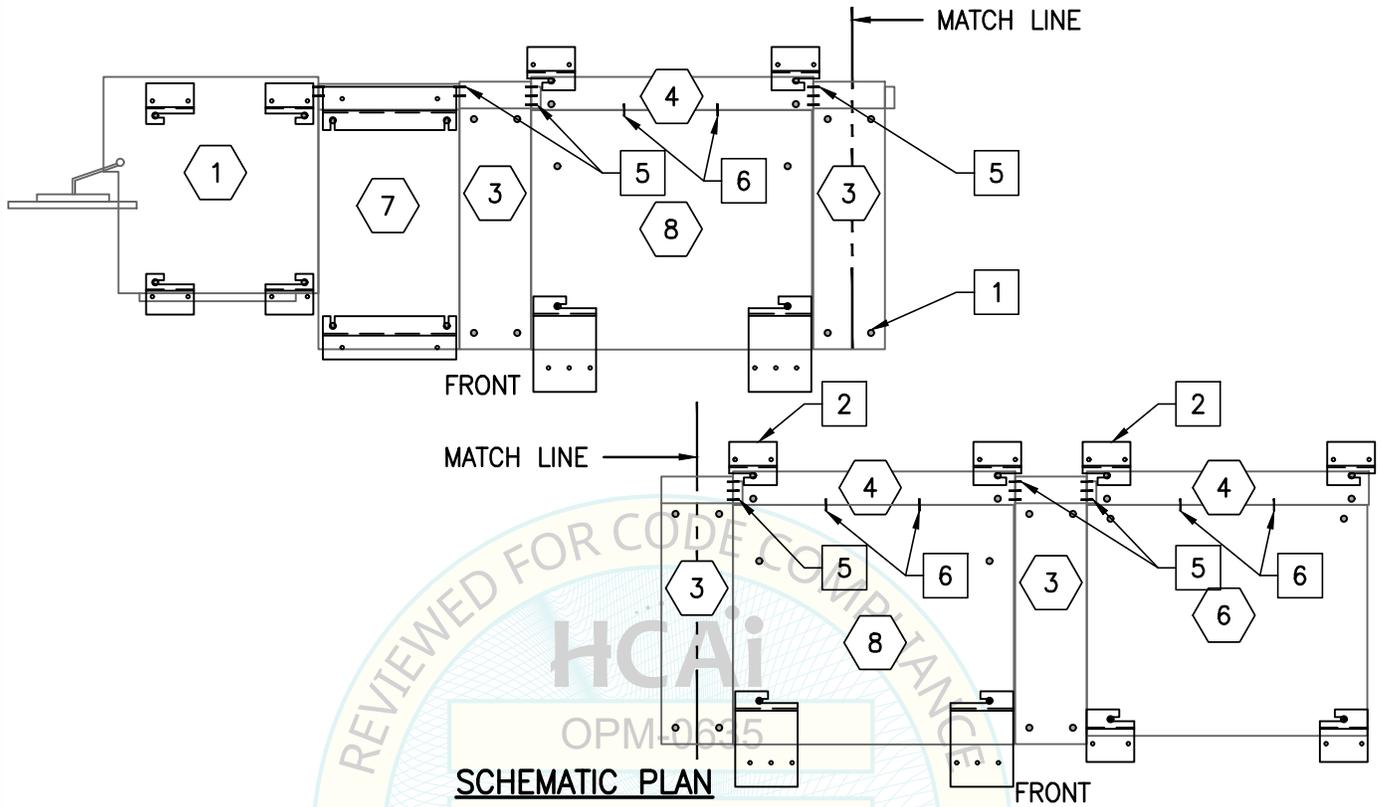


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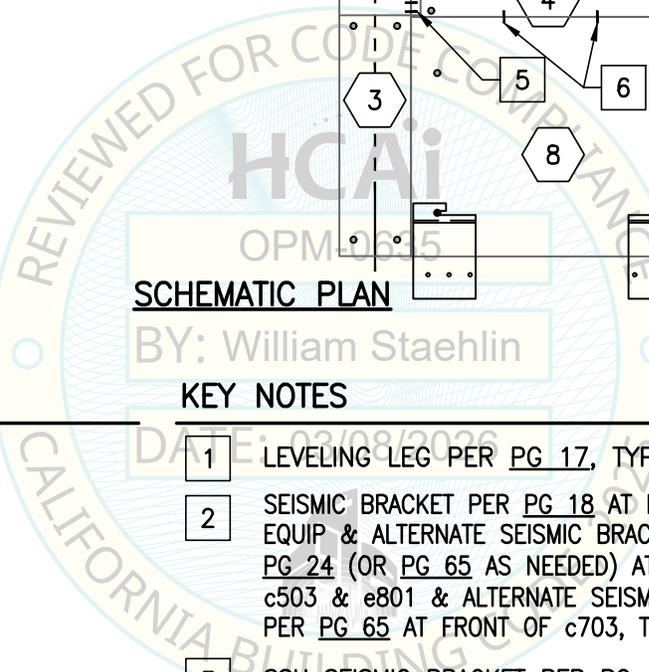
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SCHMATIC PLAN

BY: William Staehlin



COMPONENT:

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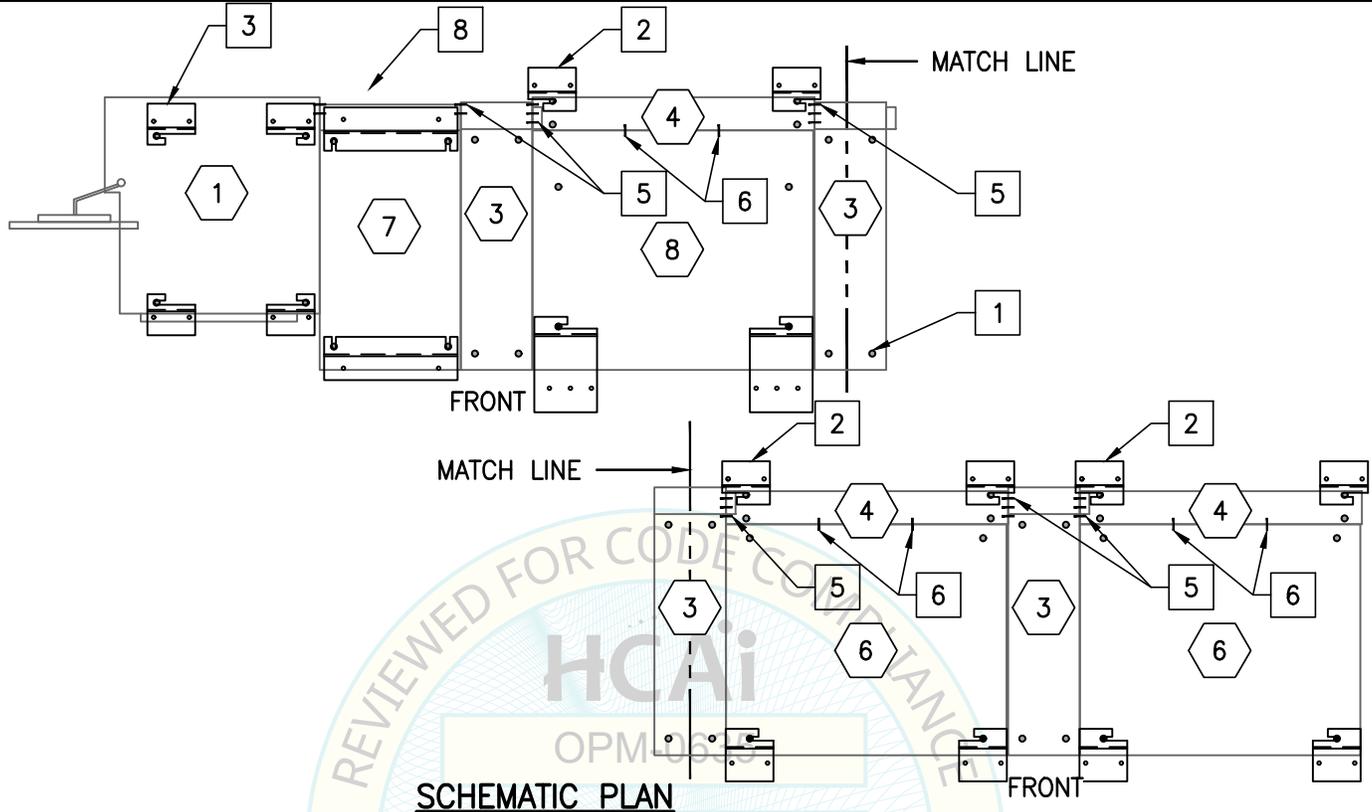
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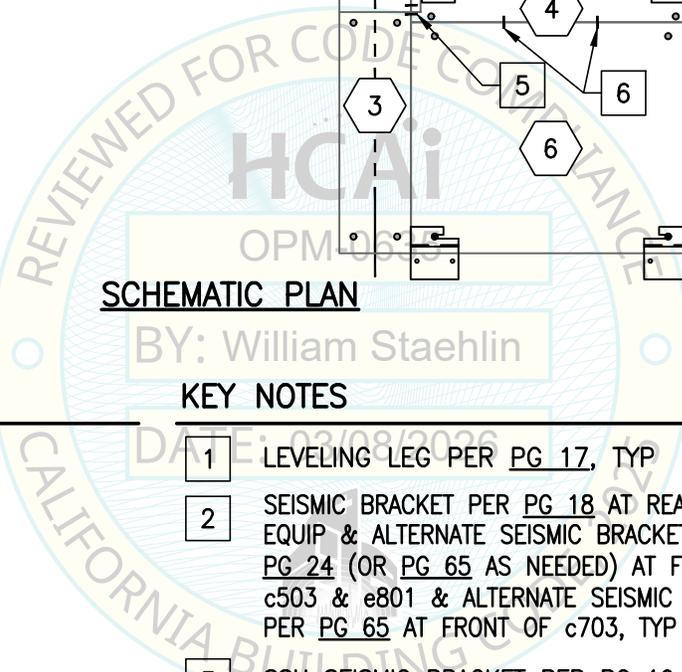
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SCHEMATIC PLAN

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- 8 c703 PER PG 63

- 1 LEVELING LEG PER PG 17, TYP
- 2 SEISMIC BRACKET PER PG 18 AT REAR OF EQUIP & ALTERNATE SEISMIC BRACKET PER PG 24 (OR PG 65 AS NEEDED) AT FRONT OF c503 & e801 & ALTERNATE SEISMIC BRACKET PER PG 65 AT FRONT OF c703, TYP UNO
- 3 SSU SEISMIC BRACKET PER PG 19, TYP
- 4 ISE SEISMIC BRACKET PER PG 20, TYP
M8x16mm SUS304 BOLT BY MFR
(REFER TO UNIT "PLAN & ELEVATIONS" FOR LOCATIONS)
- 5 M8x20mm SUS304 BOLT BY MFR
- 6 M4x6mm CS SCREW BY MFR
- 7 M4x6mm CS SCREW BY MFR
- 8 ISE neo SEISMIC BRACKET PER PG 64, TYP

*NOT PART OF THIS CONFIGURATION



SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS

ISE neo + c703 + e801 + e801



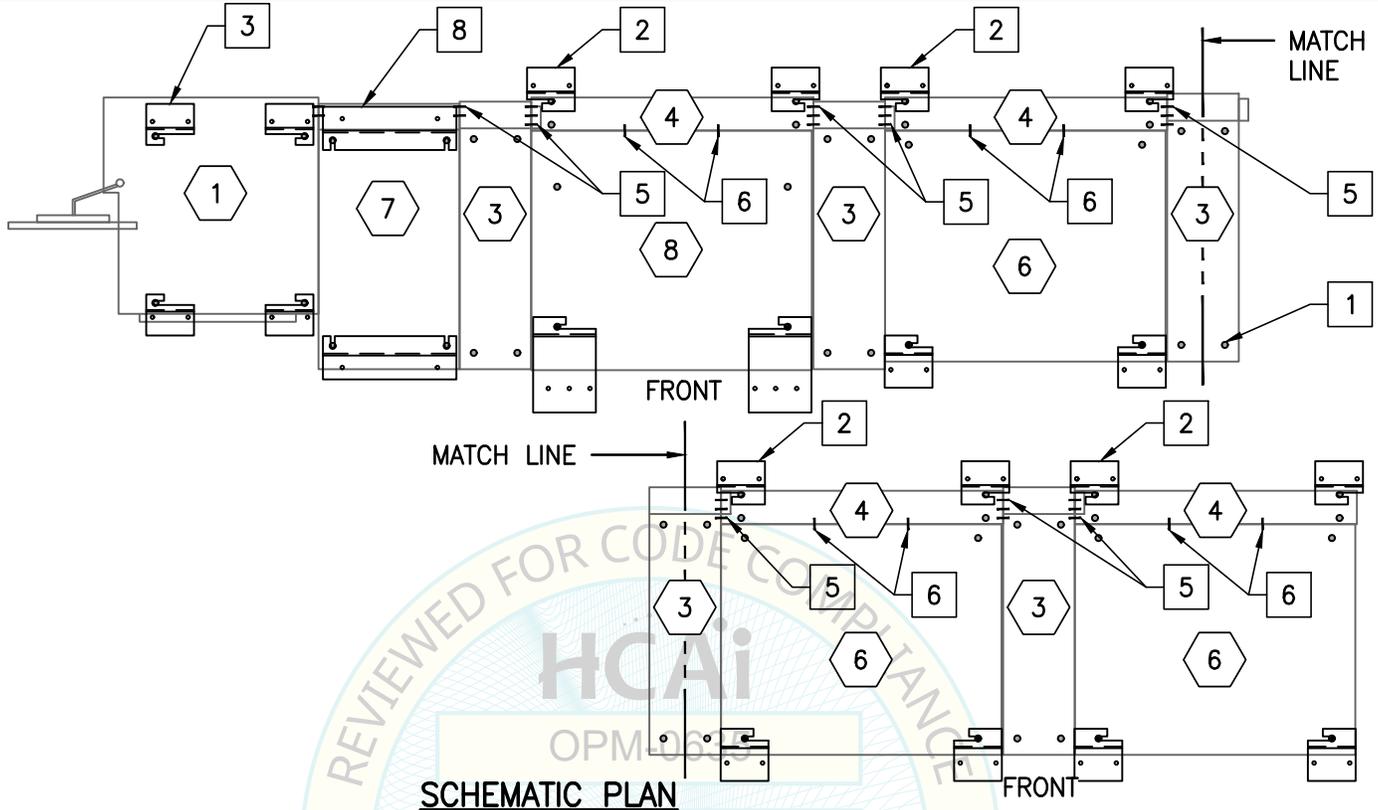
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SCHMATIC PLAN

BY: William Staehlin

COMPONENT:

- 1 SSU PER PG 11
- 2* ISE PER PG 14
- 3 SB PER PG 12
- 4 SBL PER PG 13
- 5* c503 PER PG 15
- 6 e801 PER PG 16
- 7 ISE neo PER PG 62
- 8 c703 PER PG 63

*NOT PART OF THIS CONFIGURATION

KEY NOTES

- 1 LEVELING LEG PER PG 17, TYP
- 2 SEISMIC BRACKET PER PG 18 AT REAR OF EQUIP & ALTERNATE SEISMIC BRACKET PER PG 24 (OR PG 65 AS NEEDED) AT FRONT OF c503 & e801 & ALTERNATE SEISMIC BRACKET PER PG 65 AT FRONT OF c703, TYP UNO
- 3 SSU SEISMIC BRACKET PER PG 19, TYP
- 4 ISE SEISMIC BRACKET PER PG 20, TYP
M8x16mm SUS304 BOLT BY MFR
(REFER TO UNIT "PLAN & ELEVATIONS" FOR LOCATIONS
- 5 M8x20mm SUS304 BOLT BY MFR
- 6 M4x6mm CS SCREW BY MFR
- 7 ISE neo SEISMIC BRACKET PER PG 64, TYP
- 8



SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS

ISE neo + c703 + e801 + e801 + e801



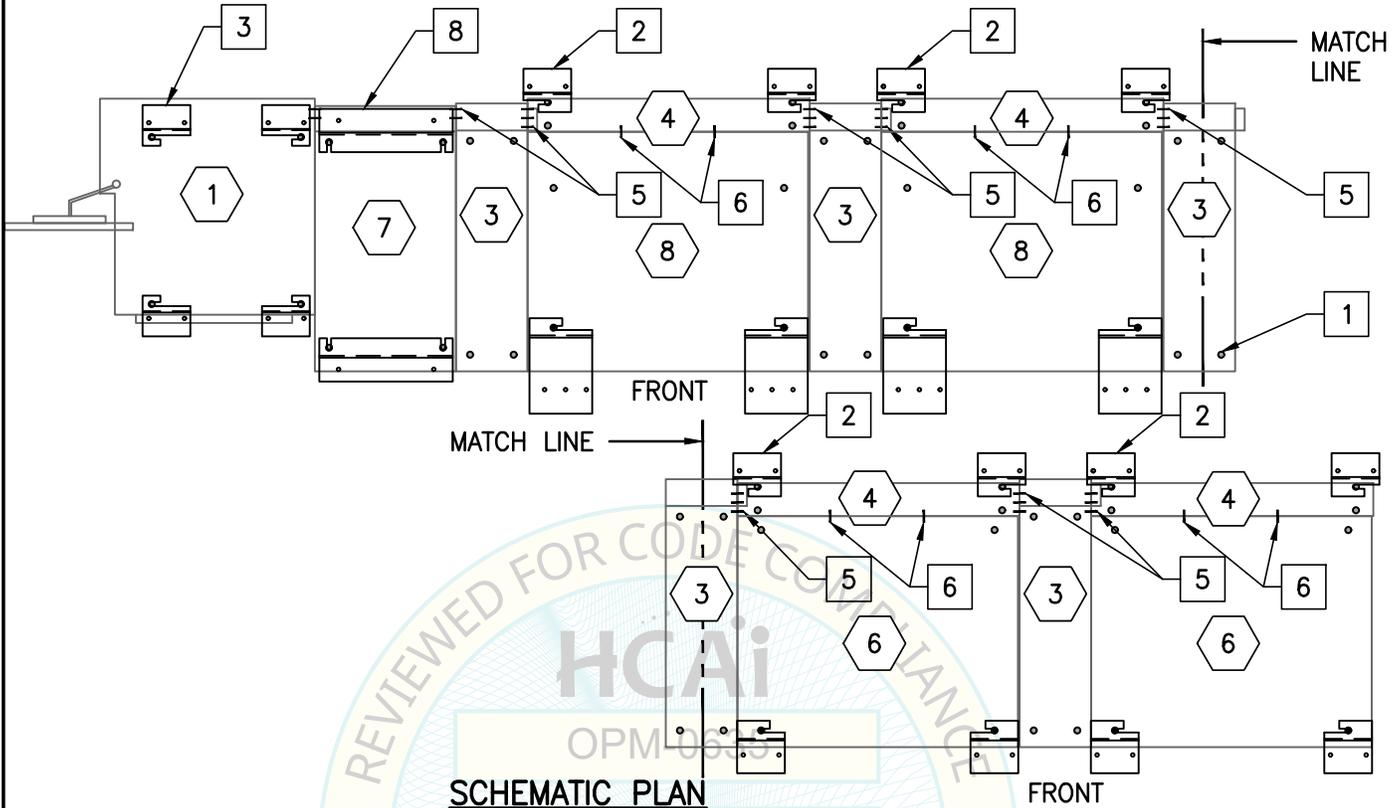
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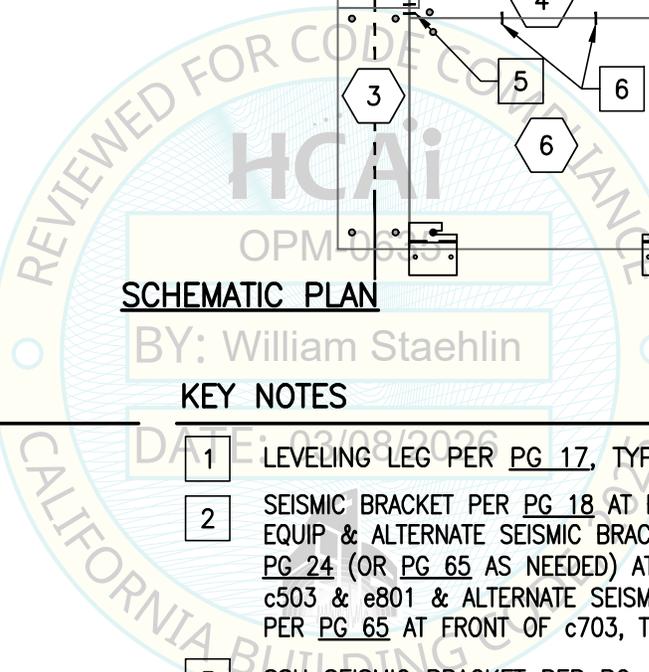
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SCHEMATIC PLAN



COMPONENT:

- 1 SSU PER PG 11
- 2* ISE PER PG 14
- 3 SB PER PG 12
- 4 SBL PER PG 13
- 5* c503 PER PG 15
- 6 e801 PER PG 16
- 7 ISE neo PER PG 62
- 8 c703 PER PG 63

*NOT PART OF THIS CONFIGURATION

KEY NOTES

- 1 LEVELING LEG PER PG 17, TYP
- 2 SEISMIC BRACKET PER PG 18 AT REAR OF EQUIP & ALTERNATE SEISMIC BRACKET PER PG 24 (OR PG 65 AS NEEDED) AT FRONT OF c503 & e801 & ALTERNATE SEISMIC BRACKET PER PG 65 AT FRONT OF c703, TYP UNO
- 3 SSU SEISMIC BRACKET PER PG 19, TYP
- 4 ISE SEISMIC BRACKET PER PG 20, TYP
M8x16mm SUS304 BOLT BY MFR
(REFER TO UNIT "PLAN & ELEVATIONS" FOR LOCATIONS
- 5 M8x20mm SUS304 BOLT BY MFR
- 6 M4x6mm CS SCREW BY MFR
- 7 M4x6mm CS SCREW BY MFR
- 8 ISE neo SEISMIC BRACKET PER PG 64, TYP



SHEET TITLE: ADDITIONAL SYSTEM OVERVIEW & CONFIGURATIONS

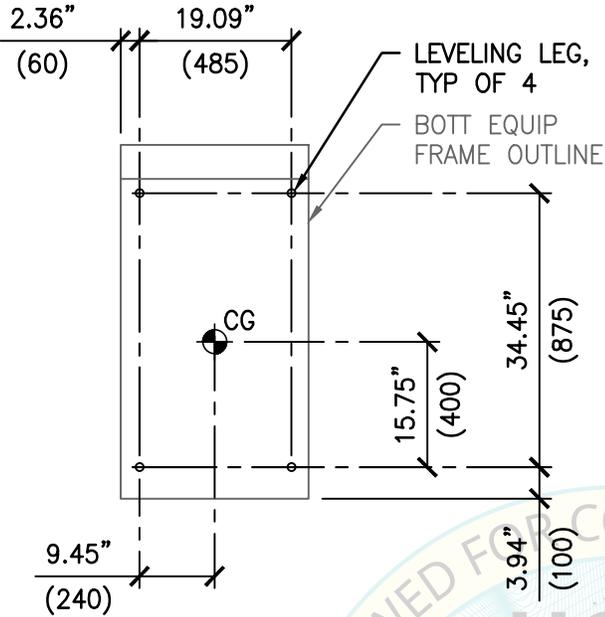
ISE neo + c703 + c703 + e801 + e801



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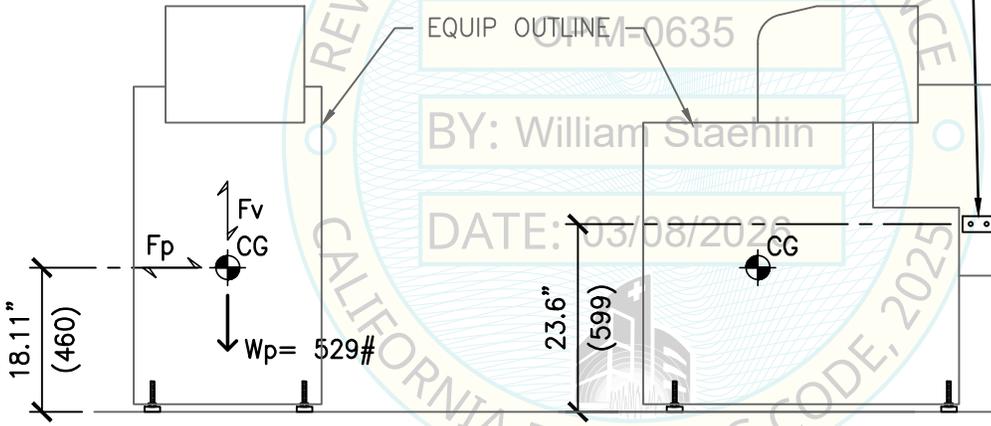
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PLAN VIEW

0.09" THK JFE-CC-EZ-JN
20/20 BRACKET,
Fy=18 KSI,
MIN W/ 2- M8 BOLTS.
ES OF EQUIP



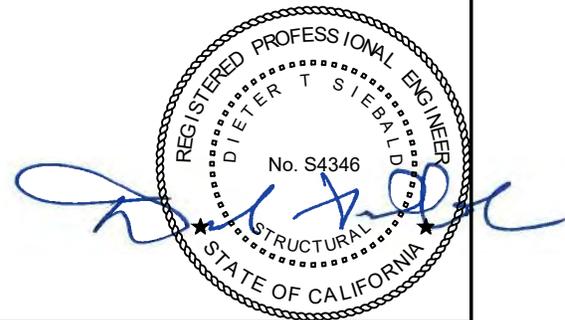
FRONT ELEV

RIGHT ELEV

SUPPORTING FLR

NOTES:

1. FOR SEISMIC BRACKET LOCATIONS & ORIENTATION SEE SYSTEM CONFIGURATION PLANS.
2. WHEELS NOT SHOWN FOR CLARITY.
3. FRAME MATERIAL: SUS430 & JFE-CC-EZ-JN 20/20.
4. REFER TO PG 23 FOR FRAME MATERIAL PROPERTIES.



SHEET TITLE: ADDITIONAL COMPONENT PLANS & ELEVATIONS
ISE neo - COMPONENT #7



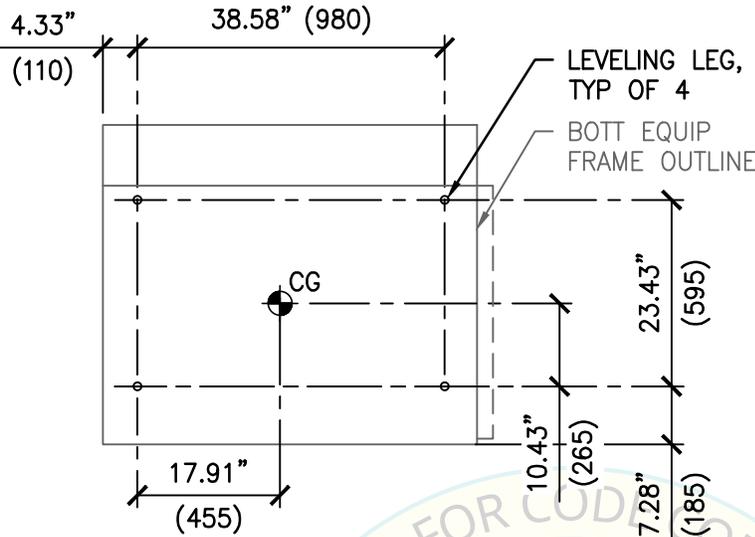
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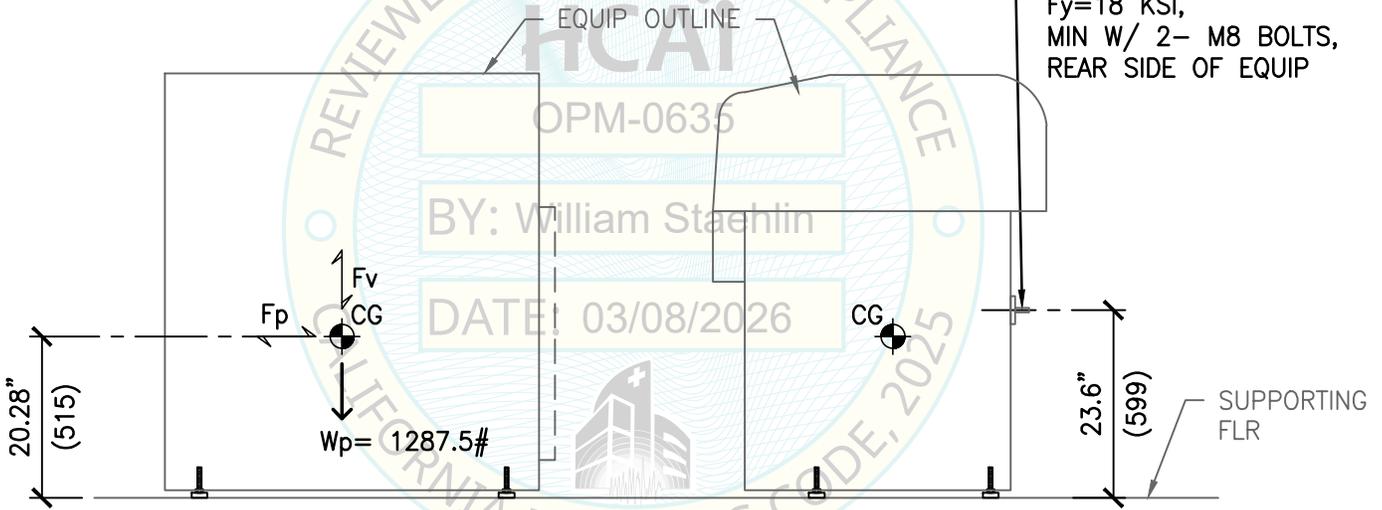
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PLAN VIEW

0.09" THK JFE-CC-EZ-JN
20/20 BRACKET,
Fy=18 KSI,
MIN W/ 2- M8 BOLTS,
REAR SIDE OF EQUIP

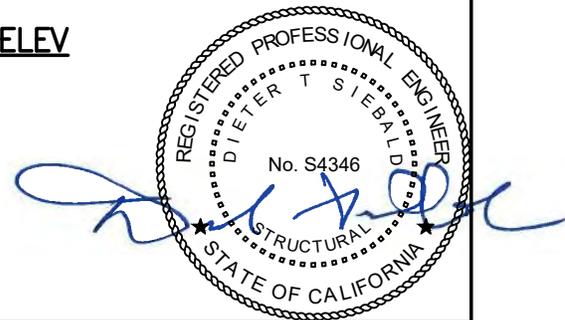


FRONT ELEV

RIGHT ELEV

NOTES:

1. FOR SEISMIC BRACKET LOCATIONS & ORIENTATION SEE SYSTEM CONFIGURATION PLANS.
2. WHEELS NOT SHOWN FOR CLARITY.
3. FRAME MATERIAL: SUS430 & JFE-CC-EZ-JN 20/20.
4. REFER TO PG 23 FOR FRAME MATERIAL PROPERTIES.



SHEET TITLE: ADDITIONAL COMPONENT PLANS & ELEVATIONS
c703 - COMPONENT #8



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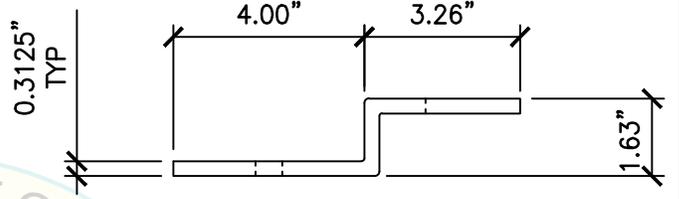
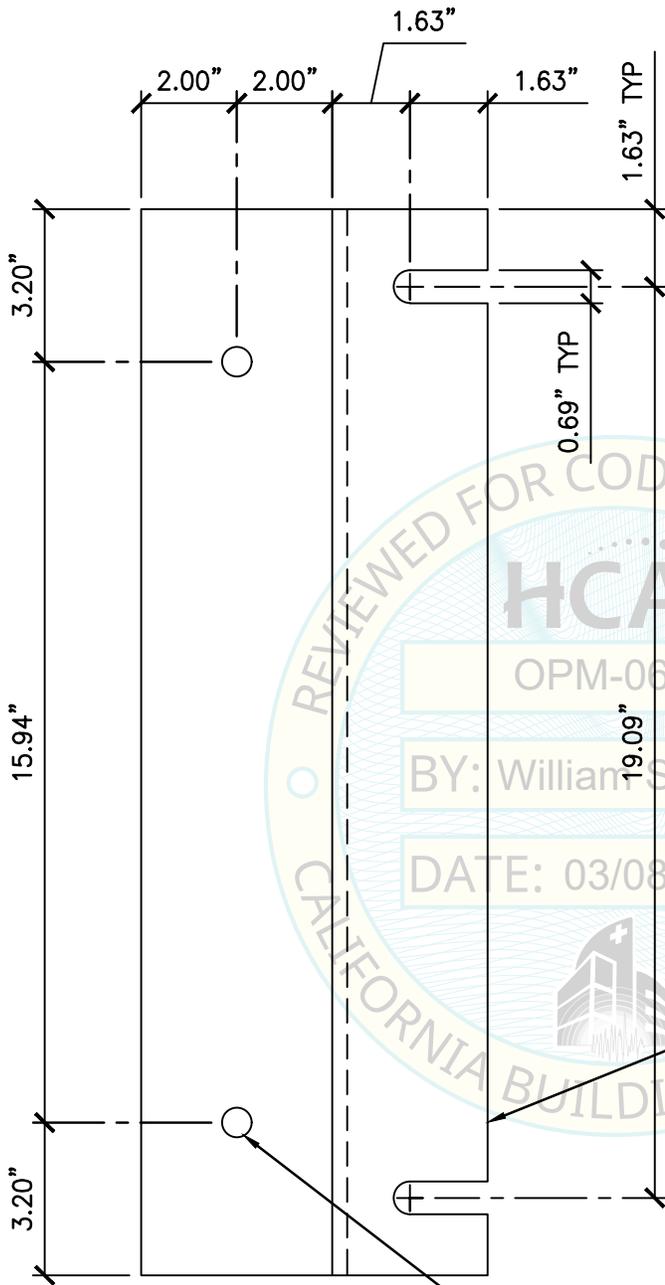
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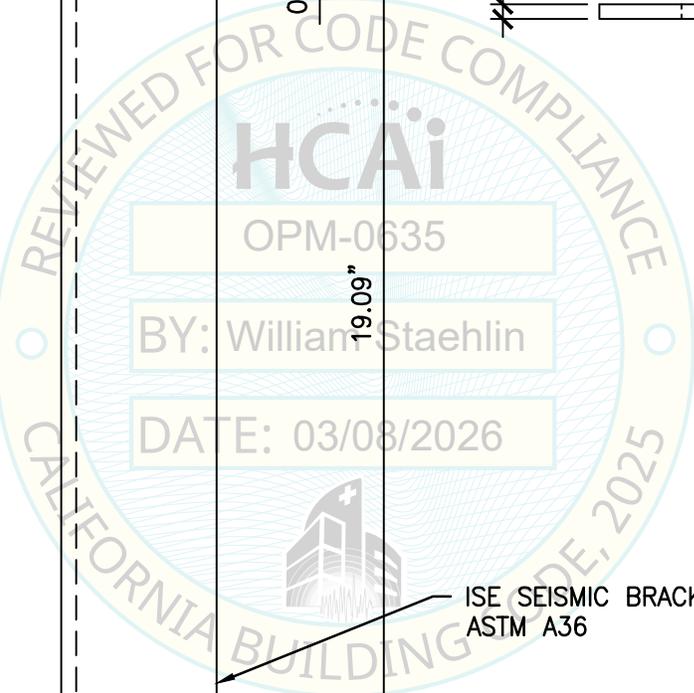
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NOTES:
 1. FOR CASE 1 & CASE 2 ATTACHMENT TO FLR, SEE PGS 21 & 23.
 2. BRACKET & SLOT DIRECTIONS SHALL BE FOLLOWED AS SHOWN ON SYSTEM CONFIGURATION PLANS.



ELEV



ISE SEISMIC BRACKET
ASTM A36

2- 0.625"Ø HOLES FOR SEISMIC ATTACHMENT TO SUPPORTING FLR

PLAN



SHEET TITLE: ISE neo SEISMIC BRACKET DETAIL



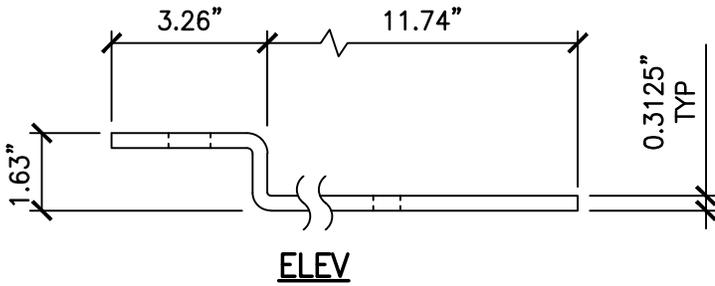
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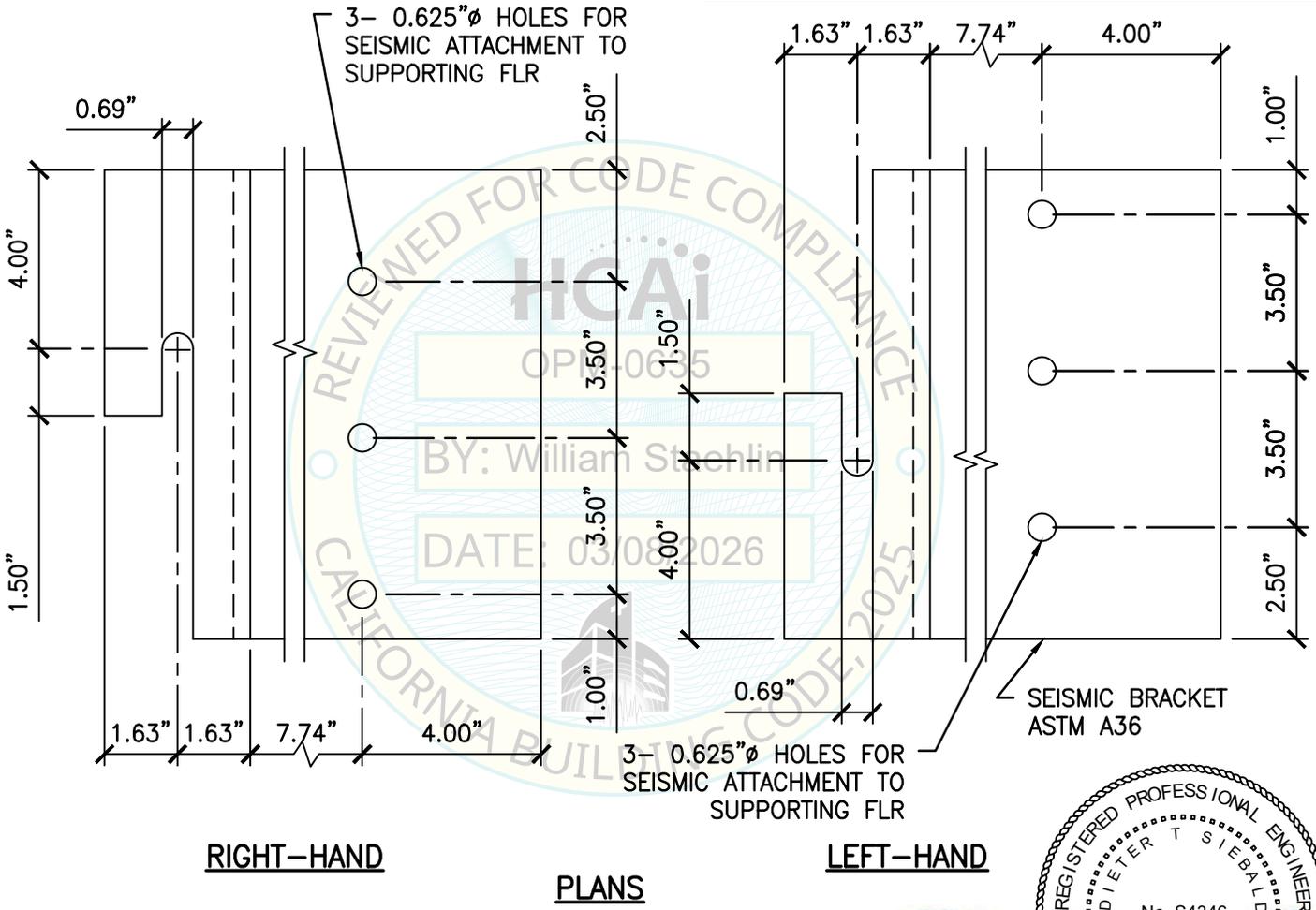
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- NOTES:**
1. FOR CASE 1 & CASE 2 ATTACHMENT TO FLR, SEE PGS 21 & 23.
 2. BRACKET & SLOT DIRECTIONS SHALL BE FOLLOWED AS SHOWN ON SYSTEM CONFIGURATION PLANS.
 3. THESE ALTERNATE SEISMIC BRACKETS ARE FOR THE FRONT OF THE c703 MODULE. IN ADDITION, THESE BRACKETS CAN BE USED AT THE FRONT OF THE c503 & e801 MODULES.



SHEET TITLE: c703 SEISMIC BRACKET DETAIL

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