

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

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

OFFICE USE ONLY

APPLICATION #: OPM-0492

| HCAI Preapproval | of Manufacturer's | Certification | (OPM) |
|------------------|-------------------|---------------|-------|
|------------------|-------------------|---------------|-------|

Type: New X Renewal/Update

Manufacturer Information

Manufacturer: Becton, Dickinson, and Company

Manufacturer's Technical Representative: Kelsey Graves

Mailing Address: 7 Loveton Circle, Sparks, MD 211529212

Telephone: () -

Email: Kelsey.Graves@bd.com

.NAQ

Product Information

Product Name: BD CORTM SYSTEM

Product Type: High-Throughput Molecular Platform

Product Model Number: COR GX, COR MX, COR PX Inhammad Aliaari

General Description: An automated diagnostic instrument for use in clinical laboratories that supports a menu of clinically differentiated assays for women's health, sexually transmitted infections, and gastrointestinal (GI) applications.

Applicant Information

Applicant Company Name: CYS Structural Engineers, Inc.

Contact Person: Dieter Siebald

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

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

Title: Structural Engineer

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY





DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

Registered Design Professonal Preparing Engineering Recommendations

Company Name: CYS STRUCTURAL ENGINEERS, INC.

Name: Dieter Siebald

California License Number: S4346

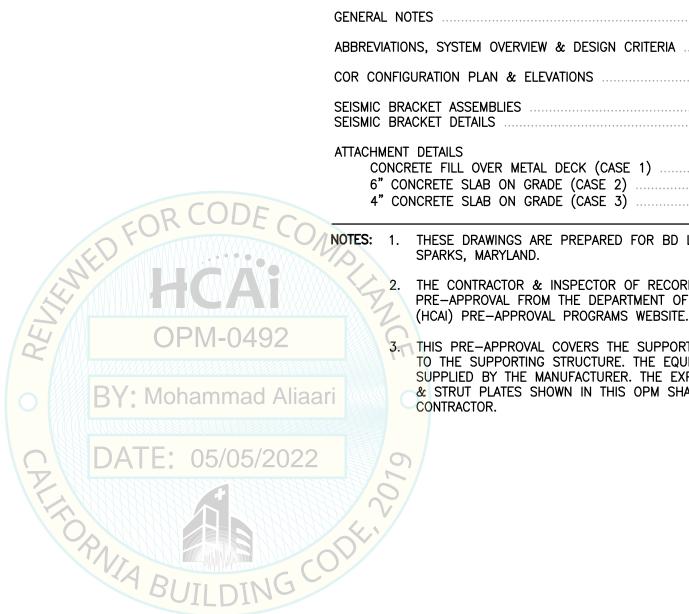
Mailing Address: 2495 Natomas Park Drive, Suite 650, Sacramento, CA 95833

Telephone: (916) 920-2020

Email: dieters@cyseng.com

| HCAI Special Seismic Certification Preapproval (OSP) | | | | | |
|---|--|--|--|--|--|
| Special Seismic Certification is preapproved under OSP OSP Number: | | | | | |
| FOR CODE COL | | | | | |
| 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, 2019 (CBSC 2019) 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 2019 may be used when approved by HCAI prior to testing. | | | | | |
| X Analysis | | | | | |
| Experience Data | | | | | |
| Combination of Testing, Analysis, and/or Experience Data (Please Specify): | | | | | |
| OPNIA DI CODE | | | | | |
| HCAI Approval | | | | | |
| Date: 5/5/2022 | | | | | |
| Name: Mohammad Aliaari Title: Senior Structural Engineer | | | | | |
| Condition of Approval (if applicable): | | | | | |
| | | | | | |





SHEET TITLE: TABLE OF CONTENTS



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BD Life Sciences - Diagnostic Systems BD COR^{TM}



CYS STRUCTURAL ENGINEERS, INC. 2495 NATOMAS PARK DRIVE, SUITE 650 SACRAMENTO, CA 95833

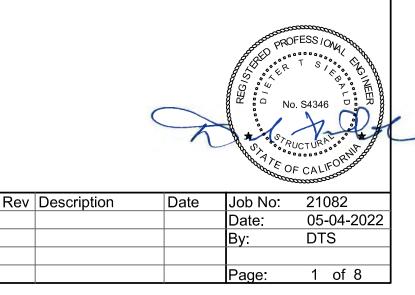
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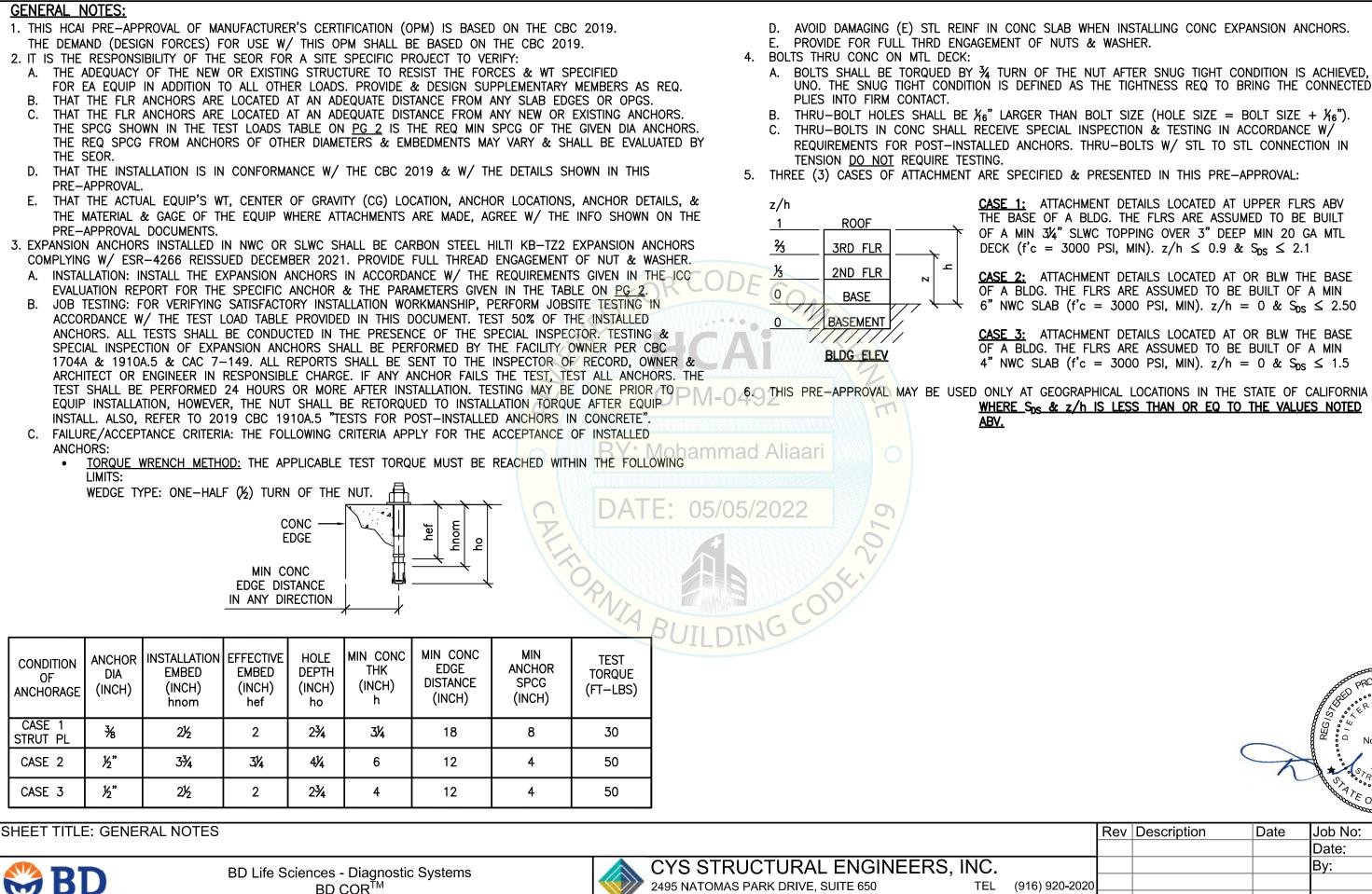
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| I CRITERIA | | 3 |
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THESE DRAWINGS ARE PREPARED FOR BD LIFE SCIENCES - DIAGNOSTIC SYSTEMS,

THE CONTRACTOR & INSPECTOR OF RECORD SHALL OBTAIN A COPY OF THIS PRE-APPROVAL FROM THE DEPARTMENT OF HEALTH CARE ACCESS & INFORMATION

THIS PRE-APPROVAL COVERS THE SUPPORTS & ATTACHMENTS OF THE EQUIPMENT TO THE SUPPORTING STRUCTURE. THE EQUIPMENT & ATTACHMENT HARDWARE ARE SUPPLIED BY THE MANUFACTURER. THE EXPANSION ANCHORS, THRU-BOLTS & STRUT PLATES SHOWN IN THIS OPM SHALL BE SUPPLIED & INSTALLED BY THE





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SACRAMENTO, CA 95833

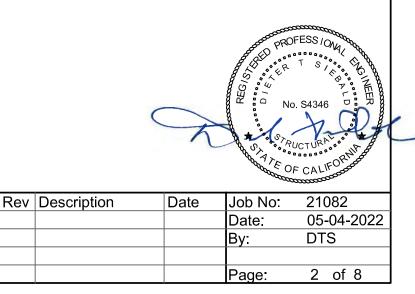
CASE 1: ATTACHMENT DETAILS LOCATED AT UPPER FLRS ABV THE BASE OF A BLDG. THE FLRS ARE ASSUMED TO BE BUILT OF A MIN 31/4" SLWC TOPPING OVER 3" DEEP MIN 20 GA MTL DECK (f'c = 3000 PSI, MIN). $z/h \le 0.9$ & S_{DS} ≤ 2.1

CASE 2: ATTACHMENT DETAILS LOCATED AT OR BLW THE BASE OF A BLDG. THE FLRS ARE ASSUMED TO BE BUILT OF A MIN 6" NWC SLAB (f'c = 3000 PSI, MIN). $z/h = 0 \& S_{DS} \le 2.50$

CASE 3: ATTACHMENT DETAILS LOCATED AT OR BLW THE BASE OF A BLDG. THE FLRS ARE ASSUMED TO BE BUILT OF A MIN 4" NWC SLAB (f'c = 3000 PSI, MIN). $z/h = 0 \& S_{DS} \le 1.5$

WHERE SDS & z/h IS LESS THAN OR EQ TO THE VALUES NOTED

www.cyseng.com



| | EVIATIONS: | | | | SA4 | STEM OVERVIE | W & DESIGN | | |
|--|---|--|--|---|--|---|---|--|---|
| @ | AT | f'c | MINIMUM ULTIMATE COMPRESSIVE | OP | | | | | S THAT CAN BE |
| L | ANGLE | | STRENGTH OF CONCRETE | OPG | OPENING | | ONFIGURATIONS | | |
| AB ABV | ANCHOR BOLT ABOVE | FLG | FLANGE | OPM | OSPHD PRE-APPROVAL OF | | | CENTER | |
| ABV | AMERICAN SOCIETY OF CIVIL | FLR FT (') | FLOOR FOOT/FEET | PERP | MANUFACTURER'S CERTIFICATION PERPENDICULAR | CONFIGURATION | LEFT MODULE | MODULE | RIGHT MODULE |
| | ENGINEERS | Fr () Fp | HORIZONTAL SEISMIC FORCE | PG | PAGE | 1 | COR GX | COR PX | COR GX |
| ADJ AISI | ADJACENT AMERICAN IRON & STEEL | • | PER ASCE 7-16 SEISMIC | P DOI | PLATE | 2 | COR GX | COR PX | _ |
| | INSTITUTE | Fy | Force requirements Specified minimum yield | PSI REQ | POUNDS PER SQUARE INCH REQUIRED | 3 | _ | COR PX | COR GX |
| ALUM ASTM | ALUMINUM AMERICAN SOCIETY FOR | GA | STRESS OF STEEL GAUGE | SEOR | STRUCTURAL ENGINEER OF RECORD | 4 | COR MX | COR PX | _ |
| | TESTING & MATERIALS | GR | GRADE | SLWC | SAND-LIGHTWEIGHT CONCRETE | 5 | _ | COR PX | COR MX |
| BLDG BLW | BUILDING BELOW | HCAI | DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION | SPCG SPEC | SPACING SPECIFICATION | 6 | COR MX | COR PX | COR MX |
| BOTT | | HT | HEIGHT | SS | STAINLESS STEEL | 7 | COR GX | COR PX | COR MX |
| CBC CG | CALIFORNIA BUILDING CODE CENTER OF GRAVITY | ICC | INTERNATIONAL CODE COUNCIL | stl Thk | STEEL THICK/THICKNESS | 8 | COR MX | COR PX | COR GX |
| Ę | CENTERLINE | IN (") | INCH | THRD | | | | | |
| CONC CONT COORD CRS DBL DEG DIA (Ø) DTL (E) EA EE ELEV EQ EQUIP ES EXTR | CONCRETE CONTINUOUS COORDINATE COLD-ROLLED STEEL DOUBLE DEGREE DIAMETER DETAIL EXISTING CONDITION EACH EACH END ELEVATION EQUAL EQUIPMENT EACH SIDE EXTERIOR | INFO KSI LBS LRFD MAX MFR MIN mm MTL NO. (#) NWC | Information KIPS PER Square Inch Pounds Load and Resistance Factor Design Maximum Manufacturer Minimum Millimeter Metal Number or Pounds Normal Weight Concrete | T.O. Tu TYP T&B UNO VERT Vu W/ Wp WT | TOP OF ANCHORAGE TENSION REACTION DUE TO SEISMIC FORCE TYPICAL TOP & BOTTOM UNLESS NOTED OTHERWISE VERTICAL ANCHORAGE SHEAR REACTION DUE TO SEISMIC FORCE WITH OPERATING WEIGHT WEIGHT BY: Mohammad DATE: 05/05/2 | OTHER M ASCE 7- $q_p = 1.0$ $W_p = 19$ UPPER FLRS AF CASE 1: FLRS AT OR BL CASE 2: CASE 3: LOAD COMBINAT (0.9 - | MECHANICAL OR -16 SUPPLEMEN $R_p = 1$ 573# MAX PER BV THE BASE OF $S_{DS} =$ W THE BASE OF $S_{DS} =$ $S_{DS} =$ TIONS 0.2 Sps) D - 0 | ELECTRICAL C T #1: .5 $I_p =$ MODULE F BLDG, $z/h =$ 2.10 $F_p =$ F BLDG, $z/h =$ 2.50 $F_p =$ 1.5 $F_p =$ | <pre>≤ 0.9 = 2.35 Wp ≤ 0 = 1.13 Wp = 0.675 Wp</pre> |

SHEET TITLE: ABBREVIATIONS, SYSTEM OVERVIEW & DESIGN CRITERIA



ile:12 LTSc

Time:May04,2022-09:41am

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CYS STRUCTURAL ENGINEERS, INC. 2495 NATOMAS PARK DRIVE, SUITE 650 SACRAMENTO, CA 95833

OPM-0492: Reviewed for Code Compliance by Mohammad Aliaari

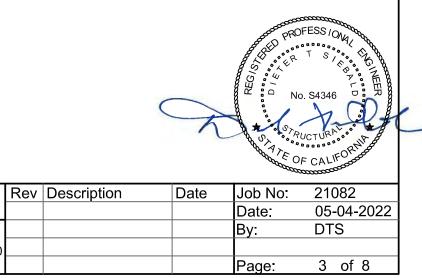
INTERCONNECTED (COR PX, COR GX & COR MX).

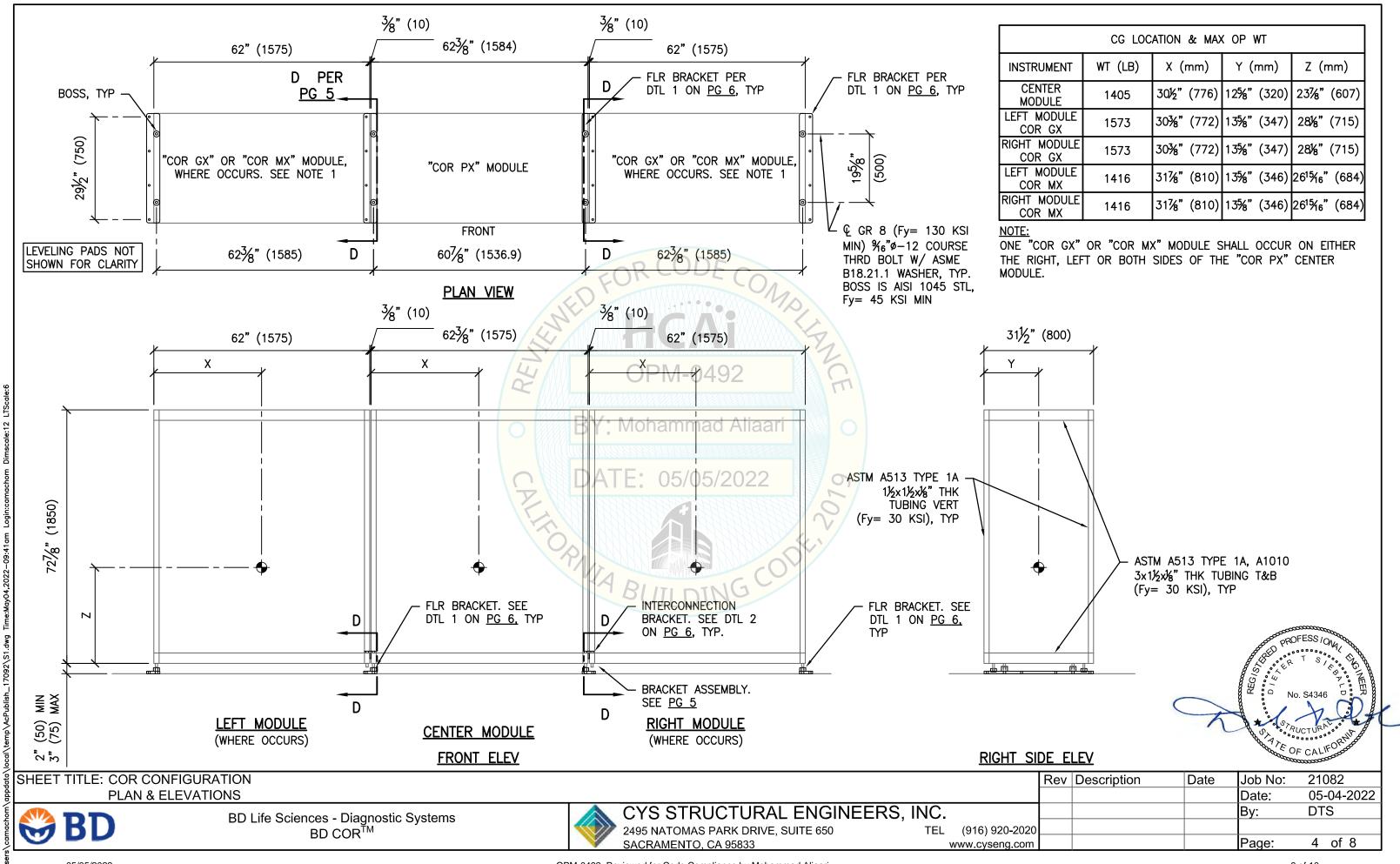
FD LEVEL FORCES.

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= 1.5 (FOR CONC ANCHORS ONLY)

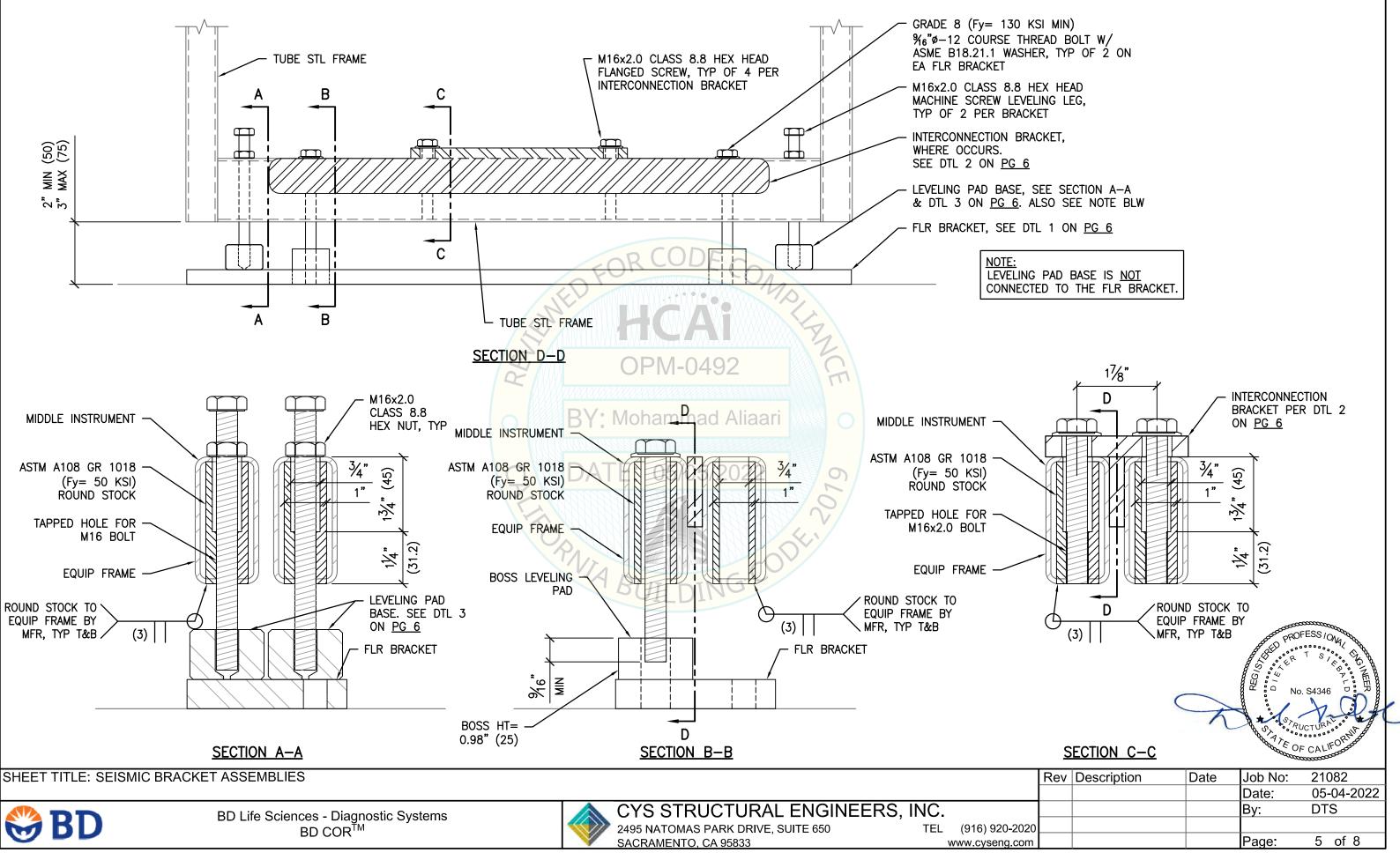
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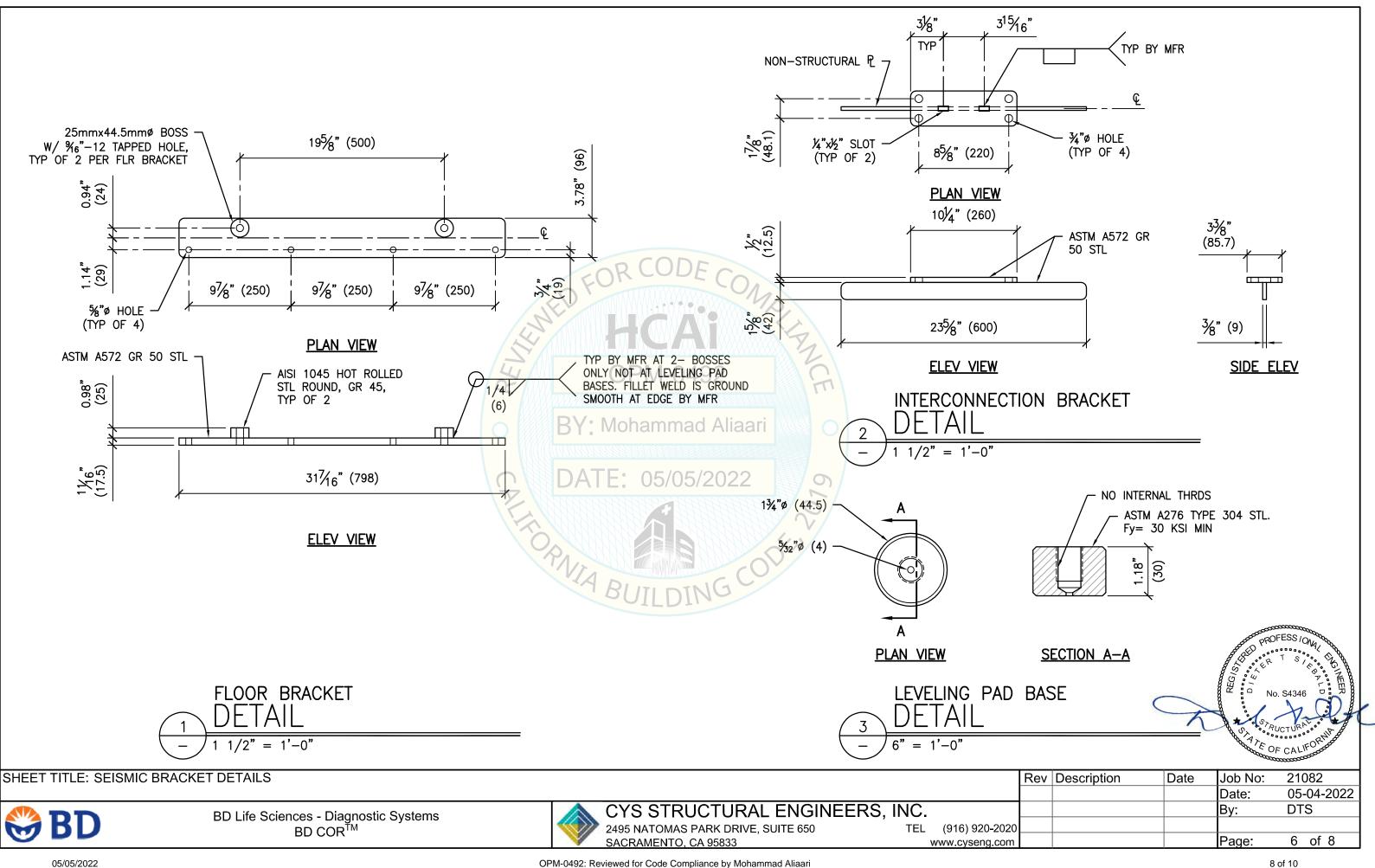
| CG LOCATION & MAX OP WT | | | | | | |
|-------------------------|---------|--------------------|-------------|--------------------------|--|--|
| STRUMENT | WT (LB) | X (mm) | Y (mm) | Z (mm) | | |
| CENTER MODULE | 1405 | 30½" (776) | 125%" (320) | 237⁄8" (607) | | |
| T MODULE COR GX | 1573 | 30 ¾" (772) | 135%" (347) | 281⁄8" (715) | | |
| IT MODULE | 1573 | 30¾" (772) | 135%" (347) | 281%" (715) | | |
| T MODULE COR MX | 1416 | 317⁄8" (810) | 135%" (346) | 26 ¹ ¾6"(684) | | |
| IT MODULE | 1416 | 317⁄8" (810) | 135%" (346) | 26 ¹ ¾6"(684) | | |



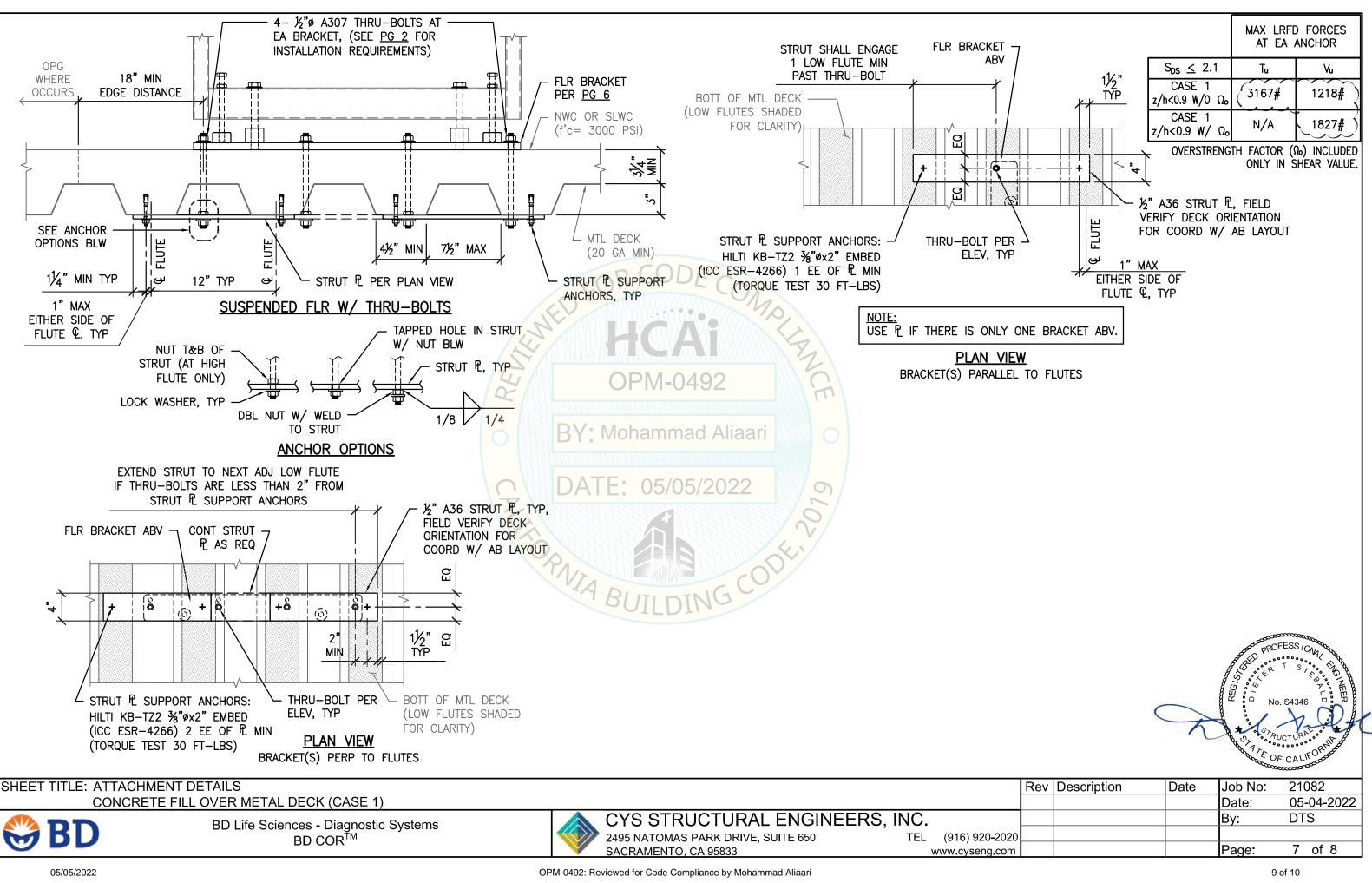
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05/05/2022



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| | | | | STATE C | PUCTURAL OF NUMBER |
|----|-----|-------------|------|---------|--------------------|
| | Rev | Description | Date | Job No: | 21082 |
| | | | | Date: | 05-04-2022 |
| | | | | By: | DTS |
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CODF ŦP ŦŦ Ŧ ÌÌ FLR BRACKET PER PG 6 FLR BRACKET Ш. Ш. PER <u>PG 6</u> дÜ ſΗ (f'c= 3000 PSI) rt h PM-0492 NIN 。 Mohammad Aliaa BY 12" MIN EDGE DISTANCE 12" MIN 1/2"x31/4" EMBED EXPANSION ANCHOR. 4 AT EA FLR BRACKET (SEE <u>PG 2</u> FOR INSTALLATION EDGE DISTANCE Martin Chine 05/05/2022 REQUIREMENTS) 6" SLAB ON GRADE PVIA BUILDING CASE 2 $S_{DS} \leq 2.5$ SHEET TITLE: ATTACHMENT DETAILS 6" CONCRETE SLAB ON GRADE (CASE 2) & 4" CONCRETE SLAB ON GRADE (CASE 3) CYS STRUCTURAL ENGINEERS, INC. BD Life Sciences - Diagnostic Systems BD COR^{TM} BD 2495 NATOMAS PARK DRIVE, SUITE 650 TEL (916) 920-2020 SACRAMENTO, CA 95833 www.cyseng.com 05/05/2022 OPM-0492: Reviewed for Code Compliance by Mohammad Aliaari

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