



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-0091

HCAI Preapproval of Manufacturer's Certification (OPM)

Type: ☐ New ☒ Renewal/Update

Manufacturer Information

Manufacturer: Carlisle FoodService Products

Manufacturer's Technical Representative: Rob Patterson

Mailing Address: PO Box 5300, Oklahoma City, OK 73152

Telephone: (615) 587-1940

Email: robpatterson@bellsouth.net

Product Information

Product Name: DINEX - THERMAL AIRE IV - SENIOR AND JUNIOR RETHERM DOCKING STATIONS.

Product Type: Food Service Equipment

Product Model Number: Multiple

General Description: Food service heating and cooling station with locking mobile food cart

Applicant Information

Applicant Company Name: Carlisle FoodService Products

Contact Person: Rob Paterson

Mailing Address: PO Box 53006,, Oklahoma City, OK 73152

Telephone: (615) 435-6995

Email: robpatterson@bellsouth.net

Title: Project Engineering Consultant

*"A healthier California where all receive equitable, affordable, and quality health care"*

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: DEGENKOLB ENGINEERS

Name: Robert Graff

California License Number: S5113

Mailing Address: 375 Beale Street, Ste 500, San Francisco, CA 94105

Telephone: (510) 684-7039

Email: rgraff@degenkolb.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: 8/12/2026

Name: William Staehlin

Title: Senior Structural Engineer

Condition of Approval (if applicable):

"A healthier California where all receive equitable, affordable, and quality health care"

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY



7/14/2026 3:33:37 PM  
Autodesk Docs://B2535005.01 - Dinex OPM 2025 CBC/B2535005.01 - Dinex OPM 2025 CBC\_S25.rvt

GENERAL NOTES

I. GENERAL

1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CALIFORNIA BUILDING CODE (CBC) 2025. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2025.
2. EQUIPMENT: DINEX THERMAL AIRE IV DOCKING SYSTEM - SENIOR OR JUNIOR DOCKING STATION WATER-COOLED COMPRESSOR AND CART 30 TRAY MAXIMUM CAPACITY.

II. RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD

1. VERIFY MATERIALS AND WORKMANSHIP TO CONFORM WITH THE 2025 EDITION OF THE CALIFORNIA BUILDING CODE AND THE REQUIREMENTS OF THIS PRE-APPROVAL DOCUMENT.
2. VERIFY THE ADEQUACY OF THE EXISTING FRAMING TO SUPPORT THE LOADS INDICATED IN DETAIL 1/S2, IN ADDITION TO ALL OTHER LOADS.
3. VERIFY ANCHORS ARE ADEQUATE DISTANCES FROM OPENINGS AND EDGES OF SLABS.
4. VERIFY ANCHORS ARE ADEQUATE DISTANCES FROM NEW OR EXISTING ANCHORS.
5. DESIGN ANY SUPPLEMENTARY MEMBER AND THEIR ATTACHMENTS OTHER THAN THOSE DETAILED WITHIN THIS PRE-APPROVAL.
6. VERIFY THE EQUIPMENTS WEIGHT, C.G. LOCATION. ANCHOR LOCATIONS AND ANCHOR DETAILS AGREE WITH THE INFORMATION SHOWN IN THIS PRE-APPROVAL.

III. MECHANICAL ANCHORS

1. WEDGE ANCHORS INTO CONCRETE: USE ZINC COATED CARBON STEEL OR STAINLESS STEEL HILTI KB-TZ2 (ICC ESR-4266). INSTALL ANCHORS IN ACCORDANCE WITH ICC REPORT.
2. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT APPROVED BY THE ENGINEER OF RECORD. NOTIFY THE ENGINEER OF RECORD IF ANY REINFORCING IS DAMAGED.
3. ANCHORS WILL BE PROOF-TESTED BY OWNER'S TESTING AND INSPECTION AGENCY REPORT OF THE TEST RESULTS TO BE SUBMITTED TO OSHPD.
4. IF ANY ANCHOR FAILS TESTING, REPLACE ANCHOR AND TEST ADDITIONAL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE PASS, THEN RESUME INITIAL TESTING FREQUENCY.
5. TEST ANCHORS NO SOONER THAN 24 HOURS AFTER INSTALLATION.
6. TEST 50% WEDGE ANCHORS PER THE FOLLOWING METHOD:

- A. TORQUE WRENCH METHOD: TEST ANCHORS TO THE TORQUE LOAD INDICATED IN THE TABLE BELOW WITHIN THE FOLLOWING LIMITS:
1. ONE-HALF TURN OF THE NUT.

| ANCHOR DIA. (IN)     | ANCHOR FINISH / TORQUE |           |
|----------------------|------------------------|-----------|
|                      | ZINC                   | STAINLESS |
| TORQUE LOAD (FT-LBS) |                        |           |
| 3/8                  | 30                     | 30        |
| 1/2                  | 50                     | 40        |
| 5/8                  | 40                     | 60        |

IV. STRUCTURAL STEEL

1. STRUCTURAL STEEL TO CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED:

| SECTIONS                         | TYPE                                        |
|----------------------------------|---------------------------------------------|
| PLATES                           | ASTM A572 GR 50                             |
| ANGLES                           | ASTM A36                                    |
| MACHINE BOLTS                    | ASTM A307                                   |
| THREADED AND HANGER ROD          | ASTM A36                                    |
| NUTS FOR BOLTS AND MACHINE BOLTS | ASTM A563                                   |
| PLAIN WASHERS                    | ANSI B18.22.1                               |
| STAINLESS STEEL                  | ASTM A666 & A314 TYPE 304 OR 316            |
| TURNBUCKLE                       | ASTM A666 & A314 TYPE 304 OR 314 GRADE 18-8 |

V. STRUCTURAL TESTS, INSPECTIONS, AND OBSERVATIONS

1. AN INDEPENDENT APPROVED TESTING AGENCY AND SPECIAL INSPECTORS WILL BE RETAINED BY THE OWNER TO PERFORM THE FOLLOWING TESTS AND INSPECTION. PROVIDE ACCESS AND FURNISH SAMPLES TO THE AGENCY AS REQUIRED.
2. THE FOLLOWING ITEMS REQUIRE TESTS AND INSPECTIONS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CHAPTER "STRUCTURAL TESTS AND INSPECTIONS" OF THE CODE.
3. MECHANICAL ANCHORS:
- A. VERIFY TYPE OF ANCHOR, ANCHOR DIMENSIONS, CONCRETE TYPE AND COMPRESSIVE STRENGTH, PREDRILLED HOLE DIMENSIONS, ANCHOR SPACING, EDGE DISTANCE, SLAB THICKNESS AND ANCHOR EMBEDMENT.
- B. PROOF-TEST AS INDICATED IN THE MECHANICAL ANCHORS SECTION OF THESE GENERAL NOTES.

VI. DESIGN CRITERIA

1. APPLICABLE CODE: 2025 CALIFORNIA BUILDING CODE AND ASCE 7-22.

2. SEISMIC DESIGN:

SEISMIC FORCE  $F_p = 2.827W_p$   $E_v = 0.500W_p$

WHERE:  $z/h \leq 1.0$ ,  $H_r = 3.5$  (SUPPORTS & ATTACHMENTS AT ANY FLR)

$S_{Ds} = 2.5$  WORST CASE ACCEL.  $z/h = 0.0$ ,  $H_r = 1.0$  (SUPPORTS & ATTACHMENTS AT GROUND FLR)

$I_p = 1.5$  FOR ESSENTIAL EQUIP.  $R_w = 1.3$  (MINIMUM STRUCTURAL DUCTILITY)

2025 SECTION 1613.7  $C_{AR} = 1.4$   $R_{po} = 2.0$   $\Omega_o = 2.0$  (AIR-SIDE CABINET HEATER)

VII. HOW TO USE THIS PRE-APPROVAL

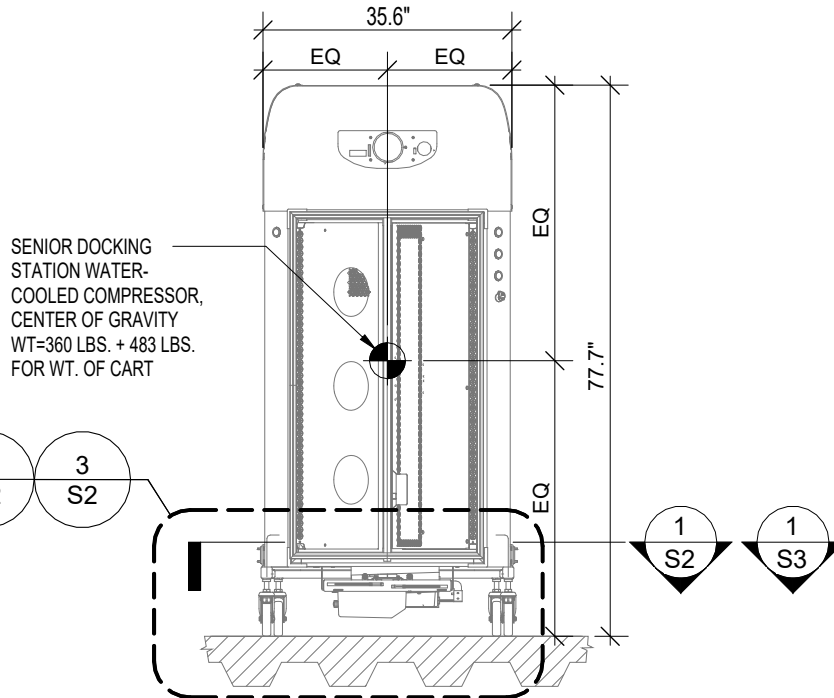
1. REVIEW AND UNDERSTAND ALL GENERAL NOTES AND FIGURES BEFORE PROCEEDING.
2. DETERMINE TYPE OF SLAB AND LOCATION WITHIN STRUCTURE.
3. SELECT AN APPROPRIATE INSTALLATION SHEETS PER THE DESIGN GUIDE ON BELOW.
4. DETERMINE THE MAXIMUM DEMANDS ON THE EXISTING STRUCTURE FROM THE NEW UNIT. AND VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE WITH THE STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING.

ANCHORAGE DESIGN GUIDE

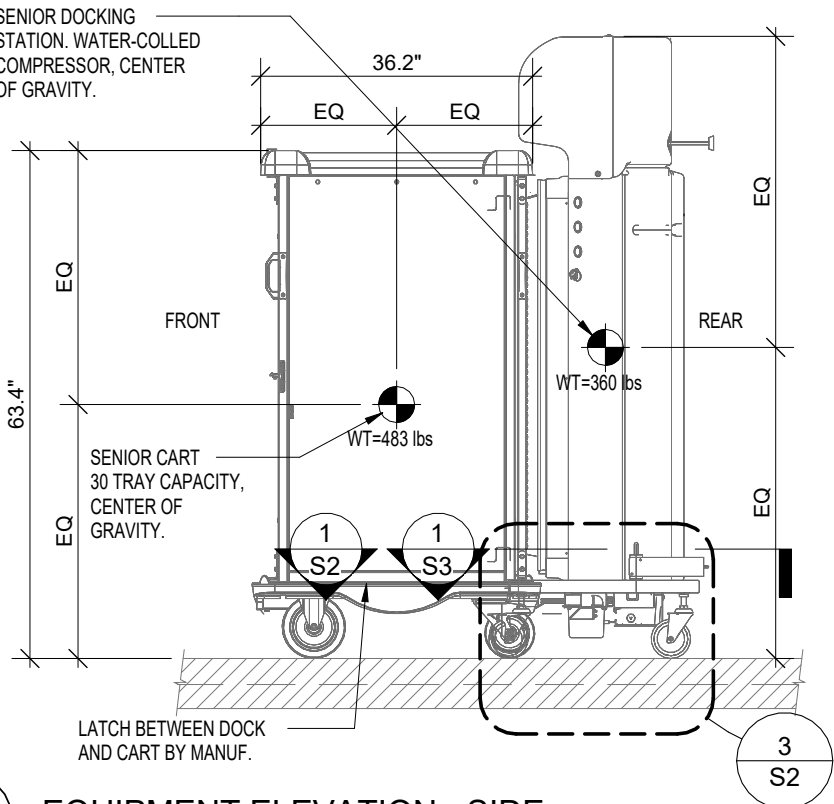
ALL FIRST FLOOR INSTALLATIONS: SEE SHEET S3 THROUGH S6 FOR "CASE 1" ACCEPTABLE CONNECTIONS.

UPPER FLOOR INSTALLATIONS WITH SEISMIC  $S_{DS} < 1.66$ : SEE SHEETS S3 THROUGH S6 FOR "CASE 1" ACCEPTABLE CONNECTIONS.

ALL UPPER FLOOR INSTALLATIONS WITH SEISMIC  $S_{DS} < 2.5$ : SEE SHEETS S5 THROUGH S6 FOR "CASE 2" ACCEPTABLE CONNECTIONS.



1 EQUIPMENT ELEVATION - FRONT  
NTS



2 EQUIPMENT ELEVATION - SIDE  
NTS

DINEX THERMAL AIRE IV OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM)

Title: GENERAL NOTES

Sheet Number

Drawn: MSA Job Number: B2535005.01

Design RMG Check: RMG

Date: 3/16/26

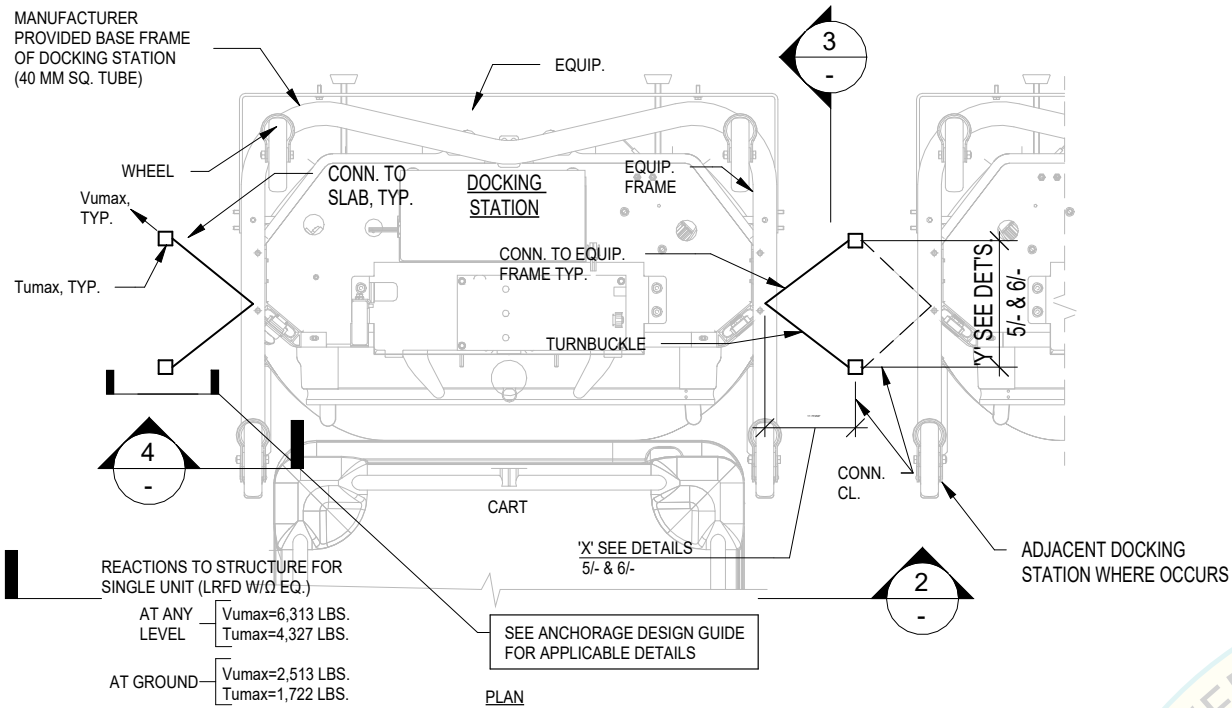
OF Sheets

3 of 8

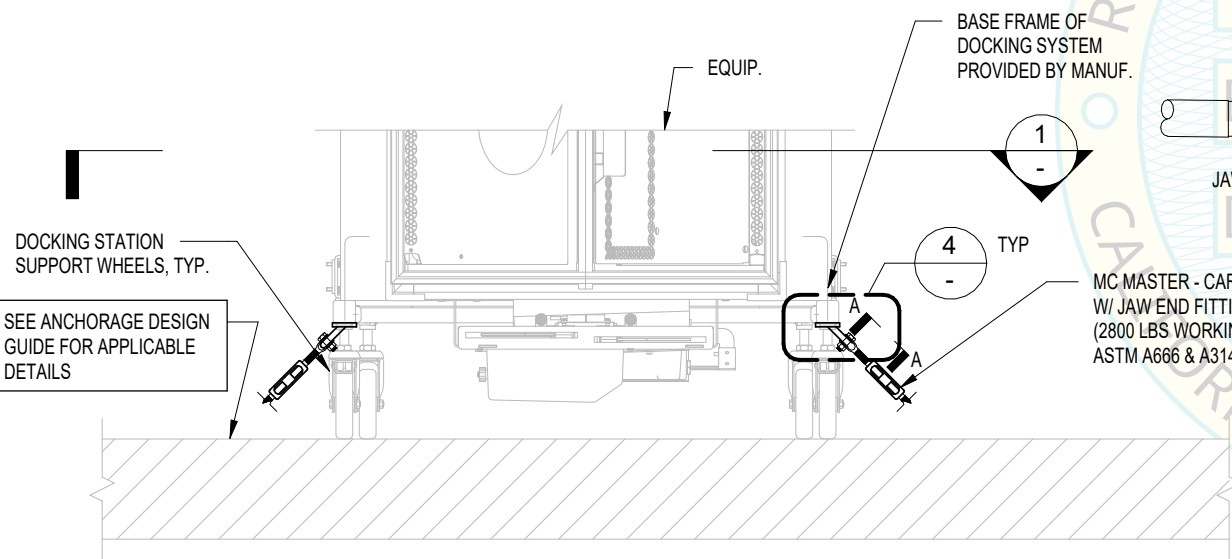


DEGENKOLB ENGINEERS  
375 Beale Street, Suite 500  
San Francisco, CA 94105  
415.392.6952 PHONE  
www.degenkolb.com

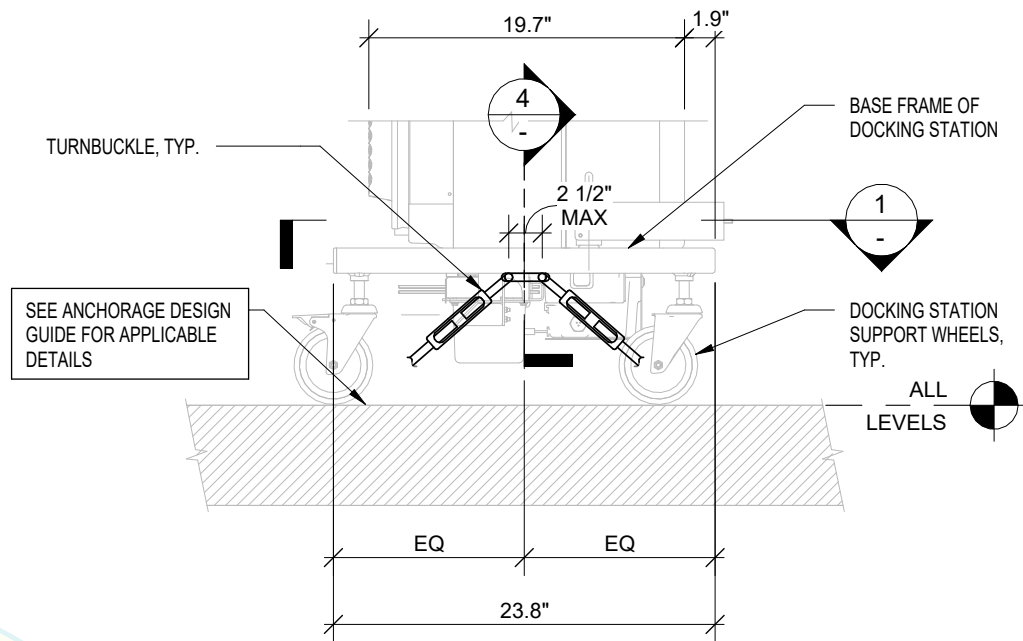




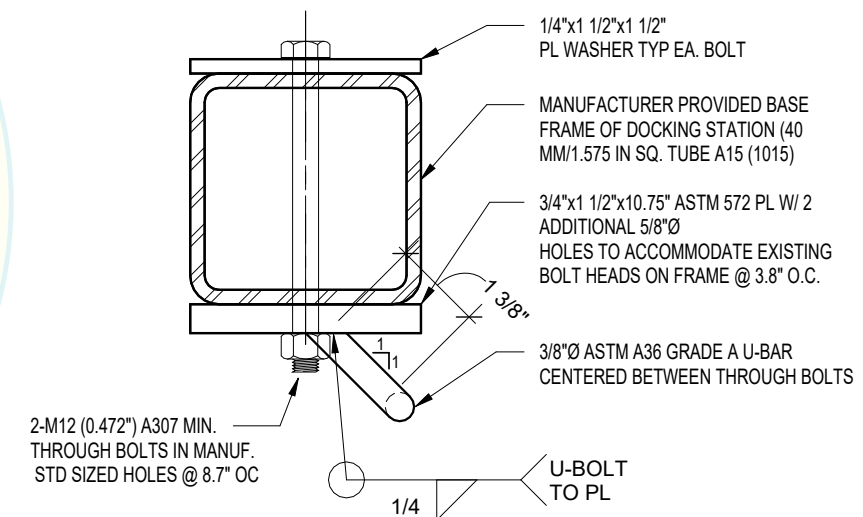
1 PLAN OF BASE FRAME  
NTS



2 BASE FRAME - FRONT ELEVATION  
NTS



3 BASE FRAME - SIDE ELEVATION  
NTS



4 BASE FRAME CONNECTION PLATE  
NTS



DEGENKOLB ENGINEERS  
375 Beale Street, Suite 500  
San Francisco, CA 94105  
415.392.6952 PHONE  
www.degenkolb.com



OPM-0091: Reviewed for Code Compliance by William Staehlin

DINEX THERMAL AIRE IV OSHPD PREAPPROVAL  
OF MANUFACTURER'S CERTIFICATION (OPM)

Title: EQUIP. SUPPORTS, ATTACHMENT  
DETAILS AND DESIGN GUIDE

Sheet Number

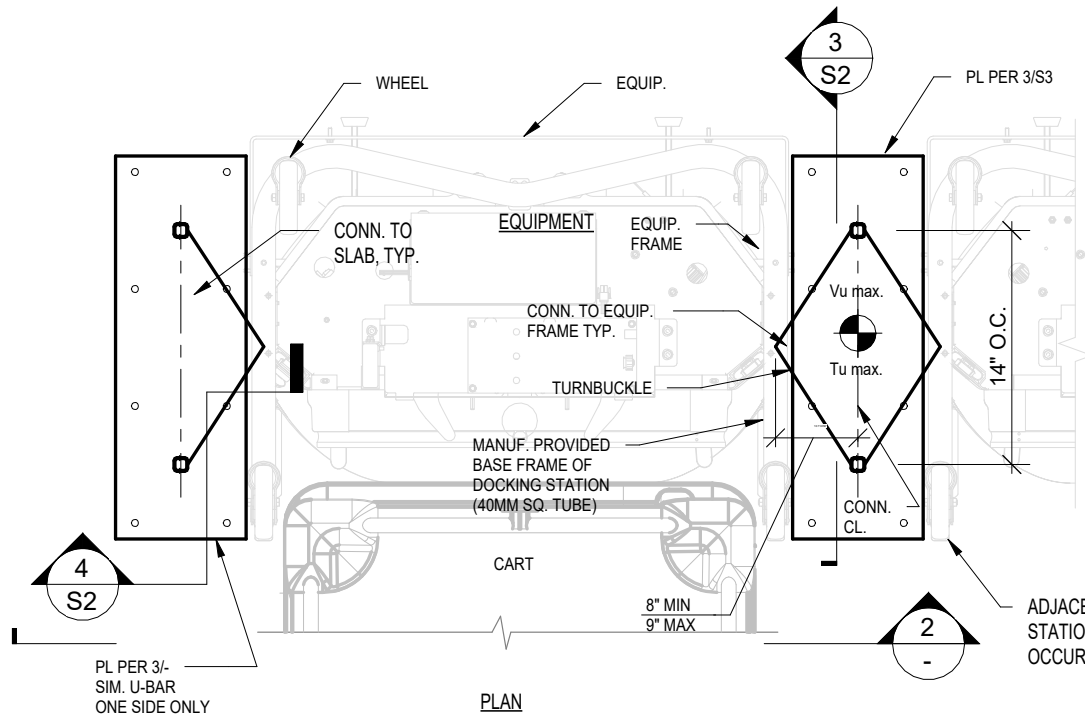
Drawn: MSA Job Number: B2535005.01

Design RMG Check: RMG

Date: 3/16/26

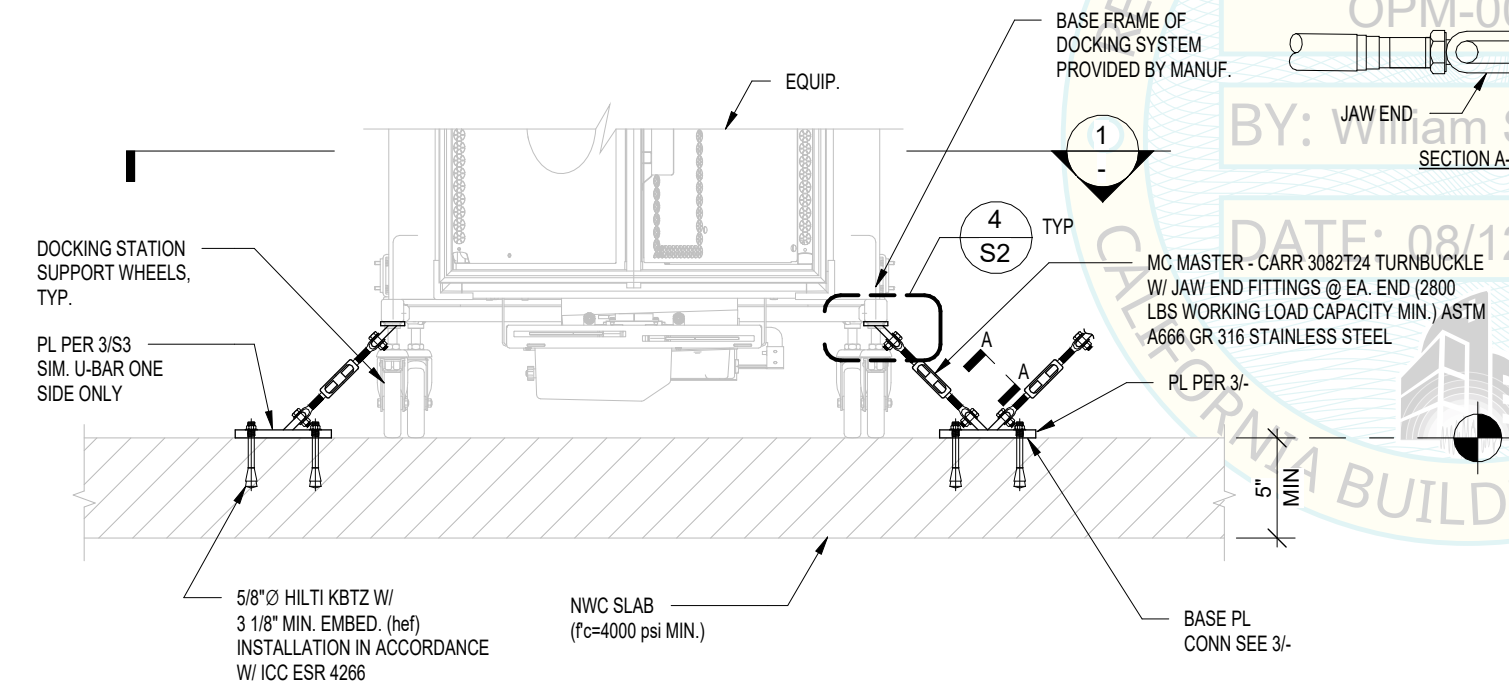
S2

OF Sheets  
4 of 8

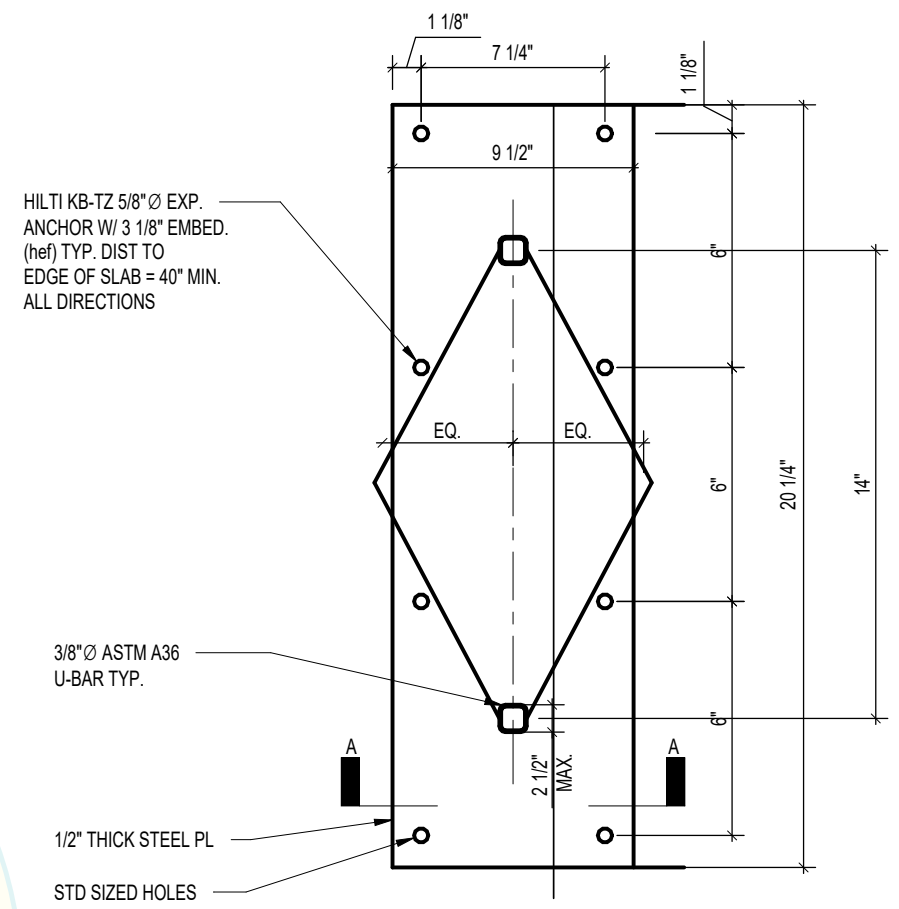


REACTIONS TO STRUCTURE FOR SINGLE UNIT (LRFD W/O EQ.)  
AT ANY LEVEL  
Vu max=3,535 LBS.  
Tumax=8,207 LBS.  
Muymax=24,732 LB-IN -STRONG WAY ON ANCHOR GROUP  
Muzmax=7,368 LB-IN -TORSION

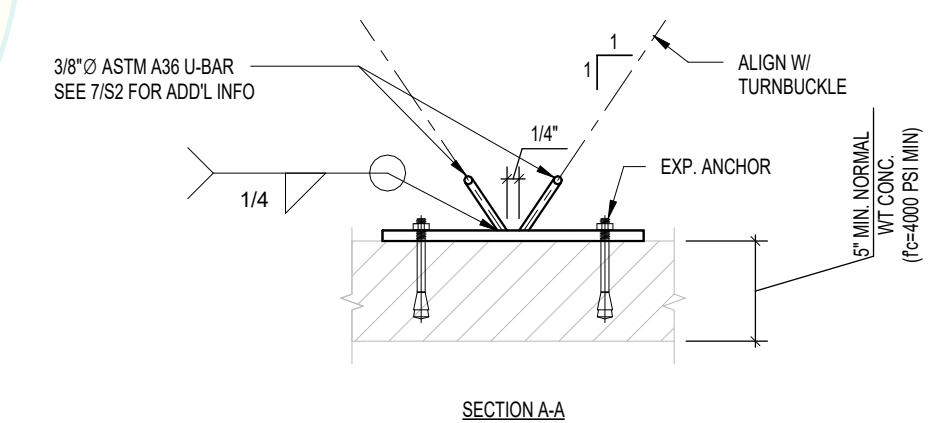
1 FLAT SLAB EXPANSION ANCHOR CONNECTION - PLAN  
NTS (ACCEPTABLE FOR CASE 1 ONLY)



2 FLAT SLAB EXPANSION ANCHOR CONNECTION - ELEVATION  
NTS (ACCEPTABLE FOR CASE 1 ONLY)



NOTE: HOT DIP GALVANIZE OR PAINT CONN. ASSEMBLY AFTER FABRICATION.



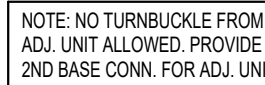
3 FLAT SLAB EXPANSION ANCHOR CONNECTION - PLATE DETAIL  
NTS (ACCEPTABLE FOR CASE 1 ONLY)



OPM-0091

BY: William Staehlin

DATE: 08/12/2026



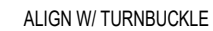
— TURNBUCKLE

4" MIN  
NOTE: @ METAL  
DECK 3 1/4" MIN.

4-3/8"Ø STAINLESS OR GALV. -  
STEEL HILTI KBTZ W/ 2" EMBED  
(hef) INSTALLATION IN ACCORD  
W/ ICC ESR 4266, EDGE  
DIST.=18" MIN. ALL DIRECTIONS

X=8" Min, 9" Max  
y=14"

— NWC S.O.G. OR NWC FLAT SLAB.  
( $f'_c=3000$  psi MIN.)  
OR NWC & SAND LWC OVER  
METAL DECK ( $f'_c=4000$  PSI MIN.)



3/8"Ø ASTM  
A36 U-BAR

ANCHOR

SECTION A-A

NOTE: HOT DIP GALVANIZE OR PAINT CONN ASSEMBLY AFTER FABRICATION.



OPM-0091: Reviewed for Code Compliance by William Staehlin

Title: CASE 1 ONLY ANCHORAGE

Sheet Number

Drawn: MSA                      Job Number: B2535005.01

Job Number: B2535005.01

|            |        |     |
|------------|--------|-----|
| Design RMG | Check: | RMG |
|------------|--------|-----|

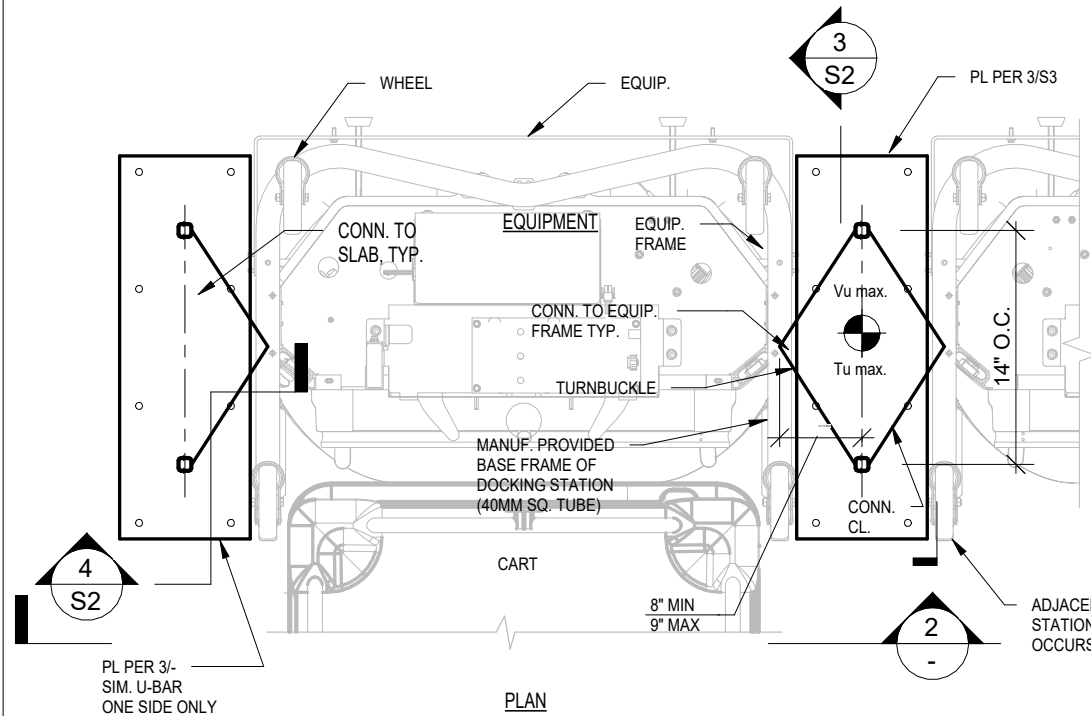
Check: RMG

Date: 3/16/26

OF Sheets

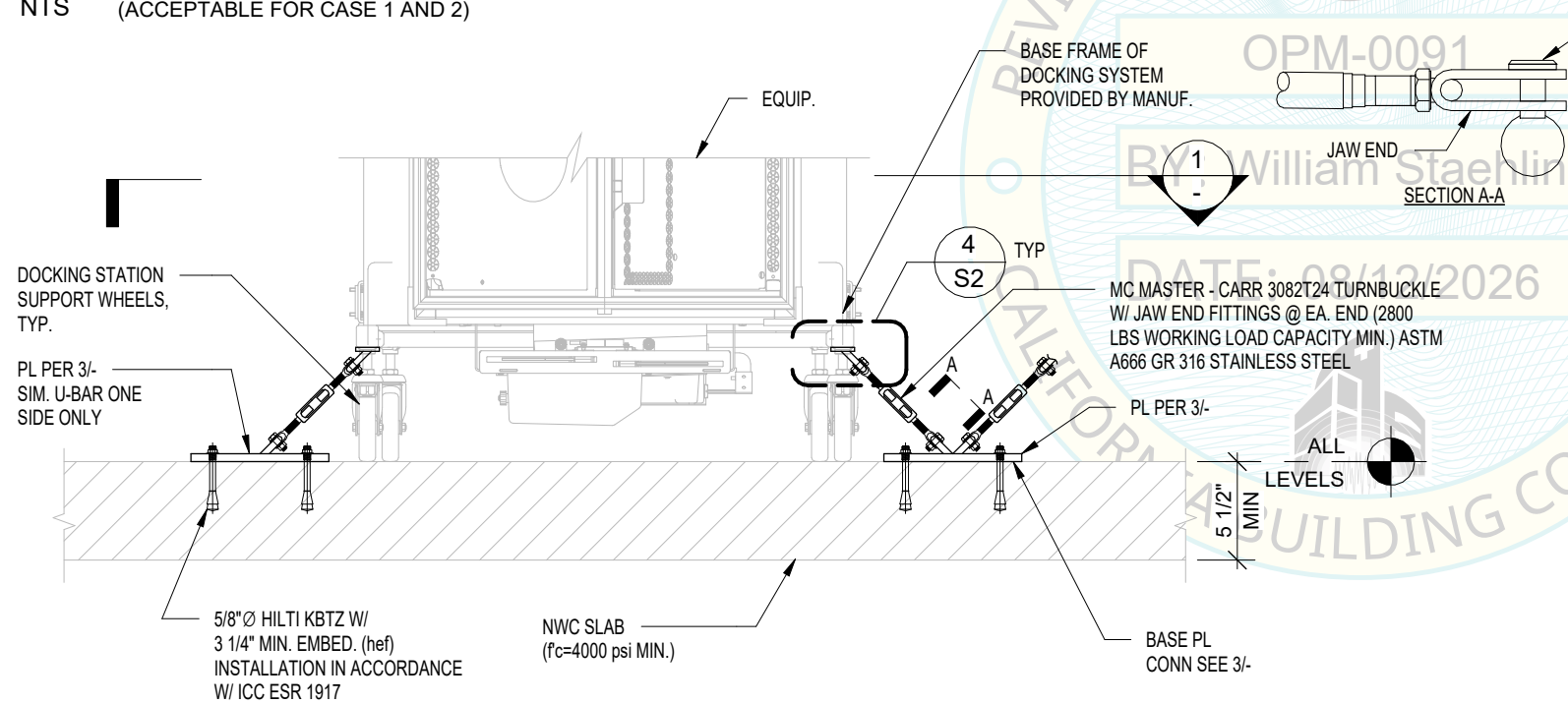
6 of 8

# S4

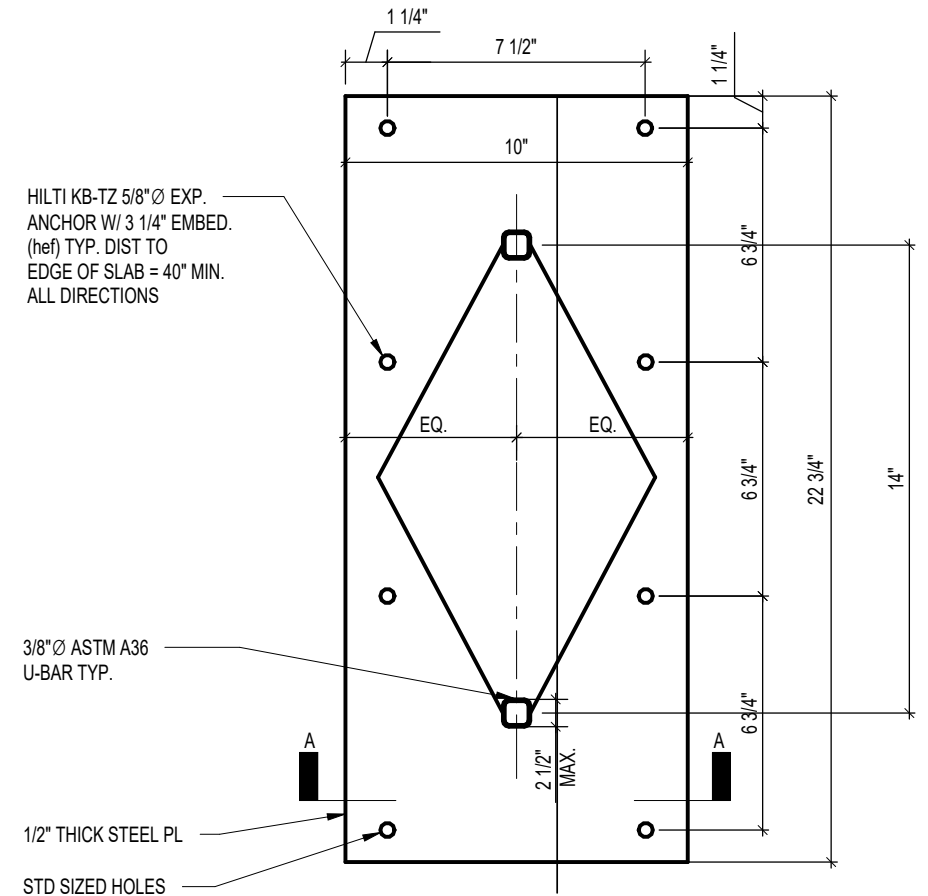


REACTIONS TO STRUCTURE FOR SINGLE UNIT (LRFD W/Ω EQ.)  
AT ANY LEVEL  
 $V_{u\max} = 4,976$  LBS.  
 $T_{u\max} = 12,073$  LBS.  
 $M_{u\max} = 34,812$  LB-IN - STRONG WAY ON ANCHOR GROUP  
 $M_{u\max} = 9,924$  LB-IN - TORSION

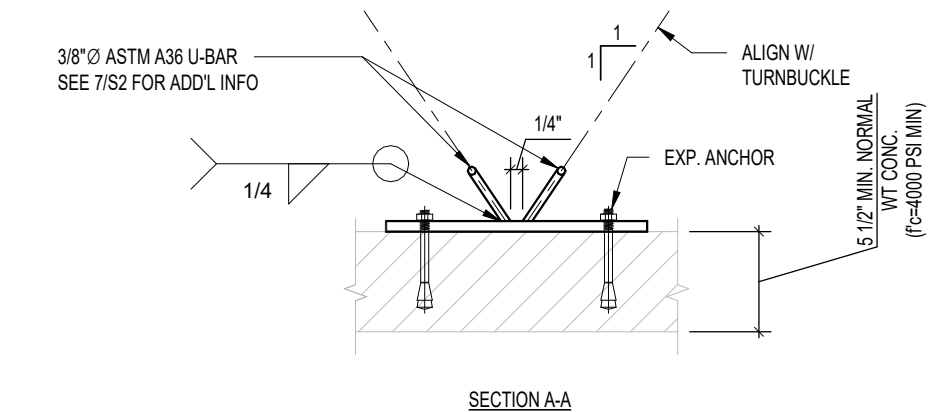
**1 FLAT SLAB EXPANSION ANCHOR CONNECTION - PLAN**  
 NTS (ACCEPTABLE FOR CASE 1 AND 2)



**2 FLAT SLAB EXPANSION ANCHOR CONNECTION - ELEVATION**  
 NTS (ACCEPTABLE FOR CASE 1 AND 2)



NOTE: HOT DIP GALVANIZE OR PAINT CONN. ASSEMBLY AFTER FABRICATION.



**3 FLAT SLAB EXPANSION ANCHOR CONNECTION - PLATE DETAIL**  
 NTS (ACCEPTABLE FOR CASE 1 AND 2)



DEGENKOLB ENGINEERS  
 375 Beale Street, Suite 500  
 San Francisco, CA 94105  
 415.392.6952 PHONE  
 www.degenkolb.com



OPM-0091: Reviewed for Code Compliance by William Staehlin

DINEX THERMAL AIRE IV OSHPD PREAPPROVAL  
 OF MANUFACTURER'S CERTIFICATION (OPM)

Title: CASE 1 OR CASE 2 ANCHORAGE

Sheet Number

**S5**

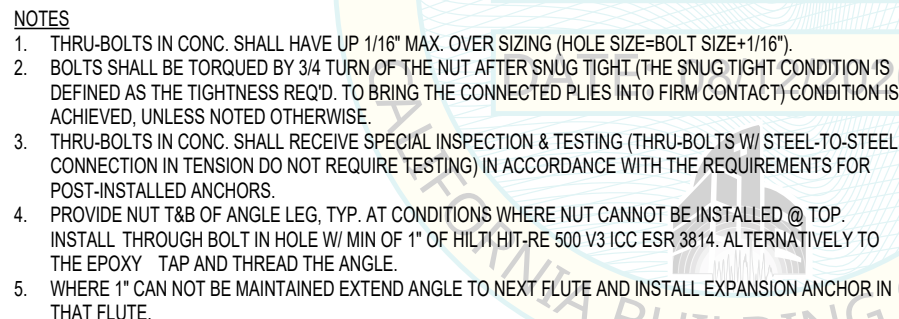
Drawn: MSA Job Number: B2535005.01

Design RMG Check: RMG

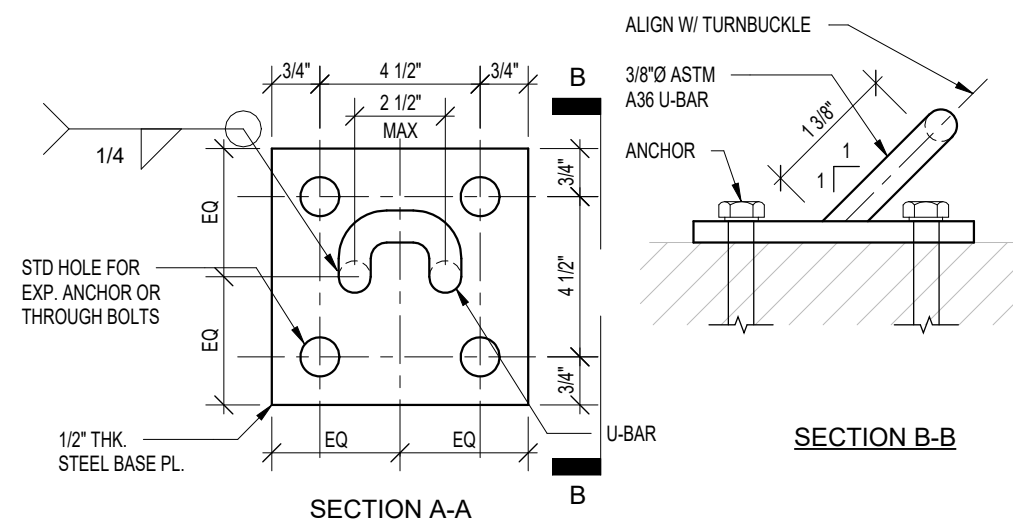
Date: 3/16/26

OF Sheets

7 of 8



## NTS (ACCEPTABLE FOR CASE 1 AND 2)



NOTE: HOT DIP GALVANIZE OR PAINT CONN ASSEMBLY AFTER FABRICATION.

## NTS (ACCEPTABLE FOR CASE 1 AND 2)



OPM-0091: Reviewed for Code Compliance by William Staehlin

OF Sheets  
8 of 8