

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD PREAPPROVAL	OFFICE U	ISE ONLY
OF MANUFACTURER'S CERTIFICATION (OPM)	APPLICATION #: OPM	-0441-13
OSHPD Preapproval of Manufacturer's Certification (OPM)		
Type: New Renewal Update to Pre-CBC 2013 C	PA Number:	
Manufacturer Information		
Manufacturer: Handicare		
Manufacturer's Technical Representative: Chris Huisman		
Mailing Address: 10888 Metro Court, St Louis MO 63043		
Telephone: 610-266-5260 x147 Email: Chris.h	uisman@handicare.com	
Product Information	MIP I	
Product Name: Prism Medical Lifts	- FE	
Product Type: Patient Lifts OPM-0441-13	CE	
Product Model Number: <u>C-300, C</u> -450, <u>C-625, C-800; & C-1000ehl</u>	in	
General Description:Patient lifts_Overhead supported & Wall post s	upported	
DATE: 02/01/2018	70	
	\sim	
Applicant Information	CODÊ!	
Applicant Company Name: Prism Medical		
Contact Person: Chris Huisman		
Mailing Address: 10888 Metro Court, St Louis MO 63043		
Telephone: 610-266-5260 x147 Email: Chris.h	uisman@handicare.com	
I hereby agree to reimburse the Office of Statewide Health F accordance with the California Administrative Code, 2016.	Planning and Develop	ment review fees in
Signature of Applicant:	Date:	8/18/2017
Title: Project manager Company Name: Handica	are	
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"	AM AAAA	OSHPD
STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-700 (REV 12/16/15)	Josh halanna	Page 1 of 2
02/01/2018 OPM-0441-13: Reviewed for Code Compliance	by William Staehlin	Page 1 of 10



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Registered Design Professional Preparing Engineering Recommendations
Company Name:Degenkolb Engineers
Name: Robert Graff California License Number: SE 5113
Mailing Address: 235 Montgomery St, Suite 500, San Francisco CA 94104
Telephone: 415-392-6952 Email: rgraff@degenkolb.com
OSHPD Special Seismic Certification Preapproval (OSP)
 Special Seismic Certification is preapproved under OSP- (Separate application for OSP is required) Special Seismic Certification is not preapproved
Certification Method(s)
 Testing in accordance with: Other* (Please Specify):
OPM-0441-13
*Use of criteria other than those adopted by the California Building Standards Code, 2016 (CBSC 2016) 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 2016 may be used when approved by OSHPD prior to testing. Analysis DATE: 02/01/2018 Combination of Testing, Analysis, and/or Experience Data (Please Specify):
TAXA CODE
List of Attachments Supporting the Manufacturer's Certification
Test Report Image: Drawings Image: Calculations Image: Manufacturer's Catalog Other(s) (Please Specify): Manufacturer product info provided within the calculation package.
OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2016 & ALL PRE-2016 CODE BASED PROJECTS
Signature: Date: 02-01-2018
Print Name: William Staehlin
Title: SSE
Condition of Approval (if applicable):
"Access to Safe. Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs" STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-700 (REV 12/16/15) Page 2 of 2

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GENERAL NOTES

GENERAL

- THIS OSHPD PRE-APPROVAL OF MANUFACTURE'S CERTIFICATION (OPM) IS BASED ON THE CBC 2016. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2016.
- 2 THIS PRE-APPROVAL IS VALID FOR THE EQUIPMENT DESCRIBED IN THESE DRAWINGS THROUGHOUT THE STATE OF CALIFORNIA, AND IS VALID FOR EQUIPMENT INSTALLED AT ANY HEIGHT WITHIN THE BUILDING.
- 3. PROVIDE LABELING ON LIFTS WITH THE DESIGN LIFT CAPACITY IDENTIFIED.

II. RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD

- VERIFY MATERIALS AND WORKMANSHIP TO CONFORM WITH THE 2016 EDITION OF THE CALIFORNIA BUILDING CODE AND THE REQUIREMENTS OF THIS PRE-APPROVAL DOCUMENT.
- VERIFY THE ADEQUACY OF THE EXISTING FRAMING TO SUPPORT THE LOADS INDICATED 2. ON THIS SHEET, IN ADDITION TO ALL OTHER LOADS.
- VERIFY ANCHORS ARE ADEQUATE DISTANCES FROM OPENINGS AND EDGES OF SLABS.
- VERIFY ANCHORS ARE ADEQUATE DISTANCES FROM NEW OR EXISTING ANCHORS.
- DESIGN ANY SUPPLEMENTARY MEMBER AND THEIR ATTACHMENTS OTHER THAN THOSE 5. DETAILED WITHIN THIS PRE-APPROVAL.
- VERIFY THE EQUIPMENTS WEIGHT, LOCATION. ANCHOR LOCATIONS AND ANCHOR 6 DETAILS AGREE WITH THE INFORMATION SHOWN IN THIS PRE-APPROVAL.

III. STRUT FRAMING

- CHANNEL FRAMING COMPONENTS AND CONNECTORS MANUFACTURED BY MASON WEST CORPORATION.
- CHANNEL FRAMING TO CONFORM TO ASTM A1011 SS, GRADE 33
- INSTALL BRACING WITH NO MORE THAN 5 DEGREE +/- PLAN DEVIATION.
- STRUT TYPE: SOLID SECTIONS ONLY. 4
- 5. ALL STRUT NUTS AND BOLTS ARE 1/2" AND ARE TO BE TORQUED TO 50 FT-LBS UON.

IV. MECHANICAL ANCHORS

- 1. WEDGE ANCHORS INTO CONCRETE: USE ZINC PLATED CARBON STEEL HILTI KB-TZ (ICC ESR-1917 ISSUED MAY 2015. 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. WITH A REPORT OF THE TEST RESULTS SUBMITTED TO OSHPD.
- 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.

WEDGE			
ANCHOR TORQUE			
DIA. (IN)	LOAD (FT-LBS)		
3/8	25		
1/2	40		
5/8	60		



DEGENKOLB ENGINEERS 375 Beale Street, Suite 500 San Francisco, CA 94105 415.392.6952 Phone 415.981.3157 Fax www.degenkolb.com



V. ROUGH CARPENTRY

- 1. FRAMING LUMBER: DOUGLAS FIR (COAST REGION) GRADED AND MARKED IN ACCORDANCE WITH THE STANDARD GRADING RULES NO. 17 OF THE WEST COAST LUMBER INSPECTION BUREAU (W.C.L.I.B.) OR WESTERN LUMBER GRADING RULES. OF THE WESTERN WOOD PRODUCTS ASSOCIATION (W.W.P.A.). USE LUMBER WITH A MINIMUM GRADE OF D.F. #2, U.O.N..
- 2. ROUGH HARDWARE:
 - A. NAILS: COMMON WIRE NAILS, ASTM F1667, STANDARDLENGTHS U.O.N. USE HOT-DIPPED ZINC-COATED GALVANIZED NAILS WHEN PENETRATING PRESSURE TREATED OR FIRE-RETARDANT LUMBER.
 - B. BOLTS AND THREADED RODS: ASTM A307, SQUARE OR HEXAGONAL HEAD MACHINE BOLTS WITH ASTM A563 NUTS. USE MALLEABLE IRON WASHERS UNDER HEAD AND NUT WHEN IN CONTACT WITH WOOD.
 - C. CREWS: ASTM A307, ANSI/ASME STANDARD B18.6.1. USE CADMIUM-PLATED PAN OR ROUND HEADED SCREWS AT STEEL TO WOOD AND WOOD TO WOOD CONNECTIONS.
 - D. MISCELLANEOUS STEEL: ASTM A36.

3. BOLT INSTALLATION:

A. DRILL BOLT HOLES A MAXIMUM OF 1/16 INCH LARGER IN DIAMETER THAN THE BOLT NOMINAL DIAMETER

VI. STRUCTURAL STEEL

STRUCTURAL STEEL TO CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED:

S S S	
SECTIONS	TYPE
COLD FORMED HOLLOW STRUCTURAL	ASTM A500 GRADE B
MACHINE BOLTS	ASTM A307
THREADED AND HANGER ROD	ASTM A36
NUTS FOR BOLTS AND MACHINE BOLTS	ASTM A563
PLAIN WASHERSY William St	ANS1B18.22.1

- 2. HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STRUCTURAL STEEL AND FASTENERS THAT ARE PERMANENTLY EXPOSED TO WEATHER.
- 1. AN INDEPENDENT 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.
- THE FOLLOWING ITEMS REQUIRE TESTS AND INSPECTIONS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CHAPTER "STRUCTURAL TESTS AND INSPECTIONS" OF THE CODE.
- MECHANICAL ANCHORS: 3.
 - 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.

VIII. DESIGN CRITERIA

- 2. SEISMIC DESIGN:
- WHERE: Sds = 250% G
- lp = 1.5
- Z/h= 1.0
- CRANE LOADING PER AISC TRANSVERSE LOADING = 0.2 (DL+LL)
- LONGITUDINAL LOADING = 0.1 (DL+LL)

IX. HOW TO USE THIS PRE-APPROVAL

- PROCEEDING.
- FROM THE TABLE ON S3.
- FROM THE TABLE ON S5.

SHEET LIST

- S1 GENERAL NOTES
- LAYOUT & TRACK SECTIONS S2
- **SECTION & TRAPEZE** S3 S4
- S5 S6
- S7
- S8

LOADS IMPOSED ON STRUCTURE

MAX LRFD LOADS W/OMEGA			
	T Hanger	P Brace	
Lift	lbs	lbs	
C300	1216	707	
C450	1611	1471	
C625	1977	1471	
C800	2360	1506	
C1000	2779	1506	

Title **GENERAL NOTES**

Drawn
Design:
Check:
Date

VII. STRUCTURAL TESTS, INSPECTIONS, AND OBSERVATIONS

1. APPLICABLE CODE: 2016 CALIFORNIA BUILDING CODE.

SEISMIC FORCE F = 3.00 Wp Ev = 0.50 Wp

WORST CASE ACCEL FOR NON-ESSENTIAL EQUIP. FOR ANY FLOOR

1. REVIEW AND UNDERSTAND ALL GENERAL NOTES AND FIGURES BEFORE

2. FOR THE SELECTED LIFT AND TRACK DETERMINE THE MAX HANGER SPACING AND BRACE SPACING FORM THE TABLES ON S2. BASED ON THE LIFT AND STRUCTURE TYPES SELECT A HANGER CONNECTION

Rp = 4.5

ap = 2.5

 $\Omega = 2.0$

4. BASE ON THE LIFT AND STRUCTURE TYPES SELECT A BRACE CONNECTION

DETERMINE THE MAXIMUM DEMANDS ON THE EXISTING STRUCTURE FROM THE NEW UNIT FROM THE TABLE ON THIS SHEET, AND VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE WITH THE ENGINEER OF RECORD FOR THE BUILDING.

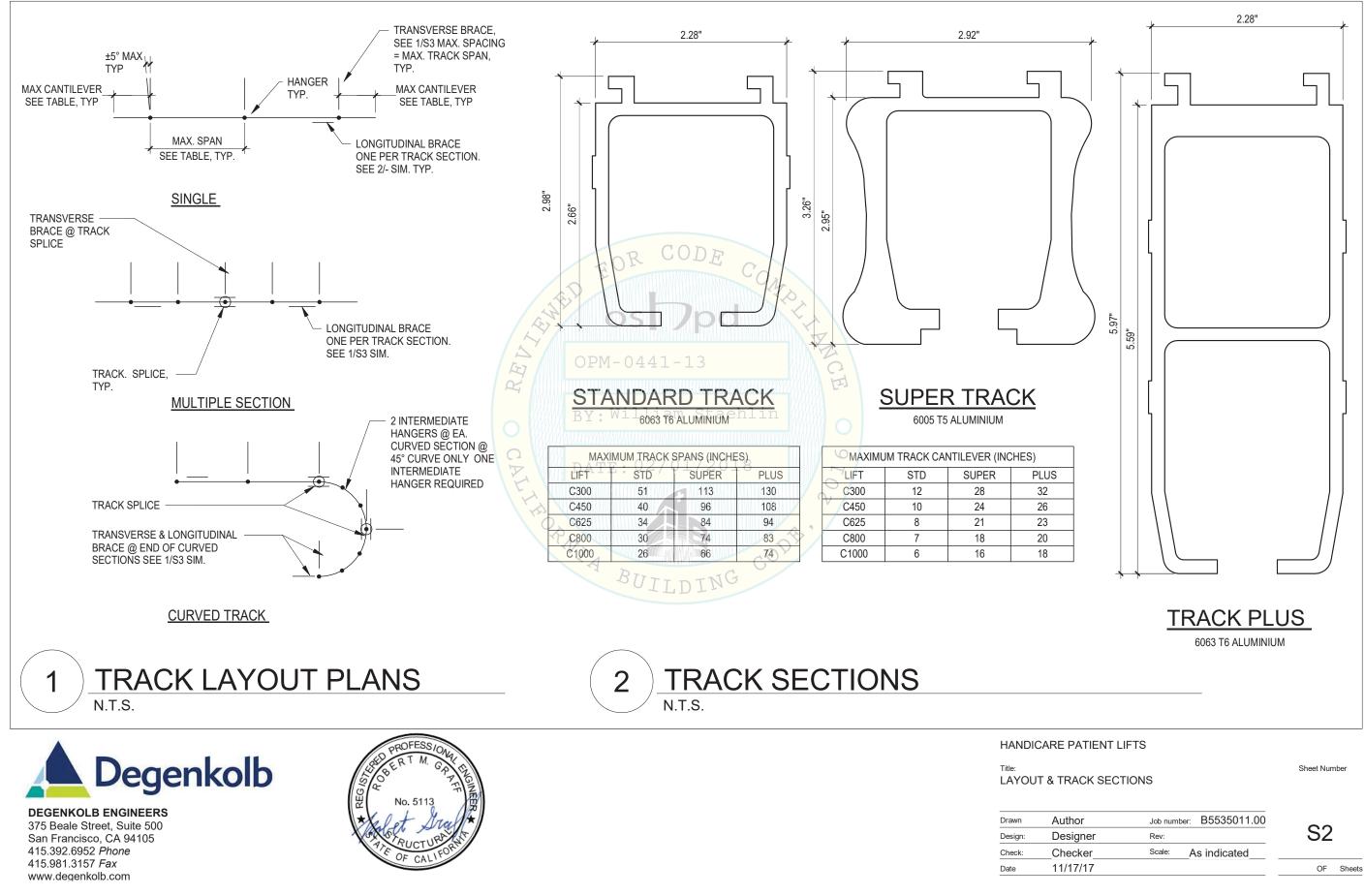
HANGER CONNECTION DETAILS HANGER CONNECTION DETAILS BRACE CONNECTION DETAILS BRACE CONNECTION DETAILS WALL POST INSTALLATION

HANDICARE PATIENT LIFTS

QL Job number: B5535011.00 RMG Rev RMG Scale: N.T.S. 11/17/17

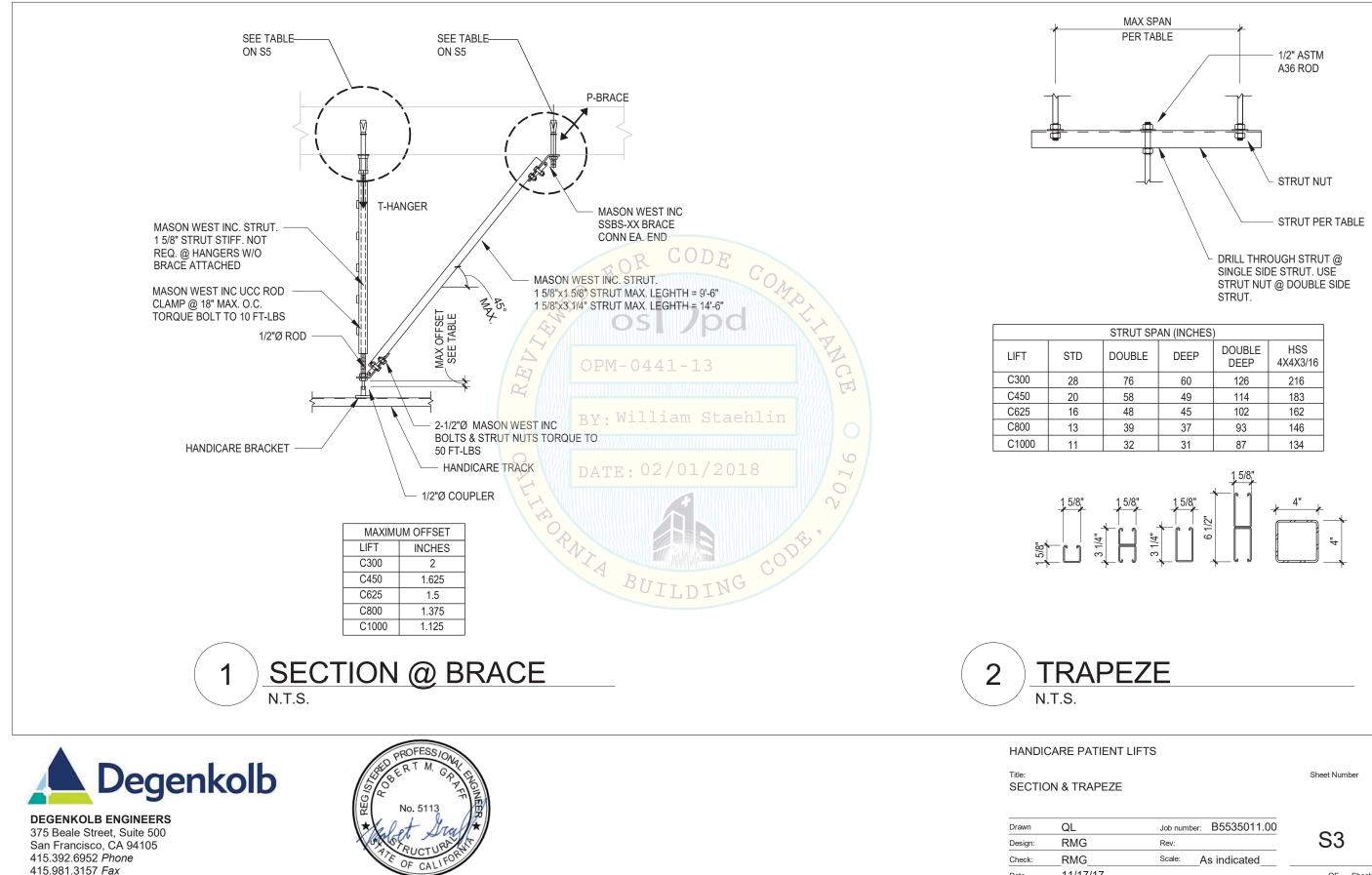
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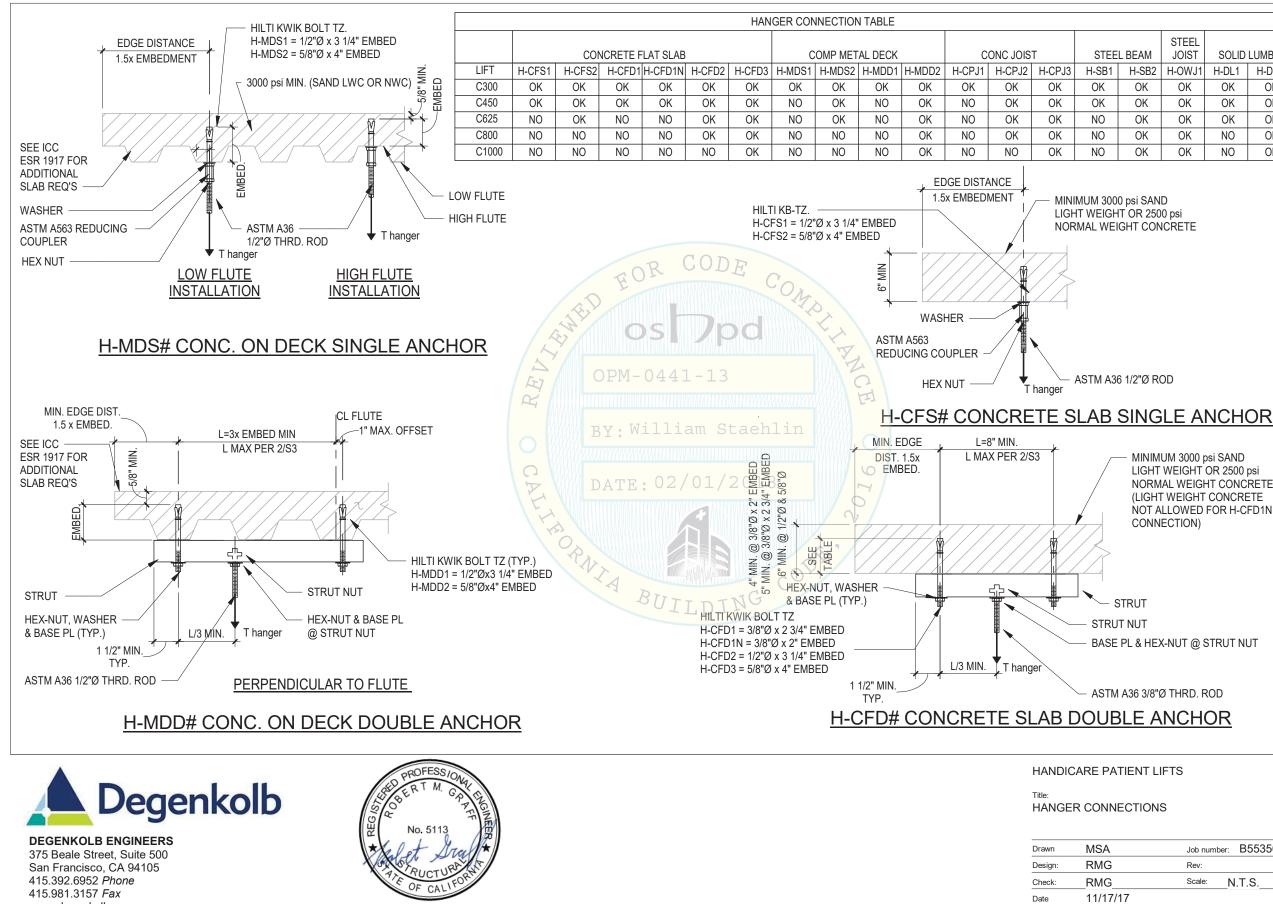


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STEE	L BEAM	STEEL JOIST	SOLID LUMBER) I-JOIST
H-SB1	H-SB2	H-OWJ1	H-DL1	H-DL2	H-IJ1	H-IJ2	
OK	OK	OK	OK	OK	OK	OK	
OK	OK	OK	OK	OK	OK	OK	
NO	OK	OK	OK	OK	OK	OK	
NO	OK	OK	NO	OK	NO	OK	
NO	OK	OK	NO	OK	NO	OK	

MINIMUM 3000 psi SAND LIGHT WEIGHT OR 2500 psi NORMAL WEIGHT CONCRETE

ASTM A36 1/2"Ø ROD

MINIMUM 3000 psi SAND LIGHT WEIGHT OR 2500 psi NORMAL WEIGHT CONCRETE (LIGHT WEIGHT CONCRETE NOT ALLOWED FOR H-CFD1N CONNECTION)

STRUT

- STRUT NUT
- BASE PL & HEX-NUT @ STRUT NUT
- ASTM A36 3/8"Ø THRD, ROD

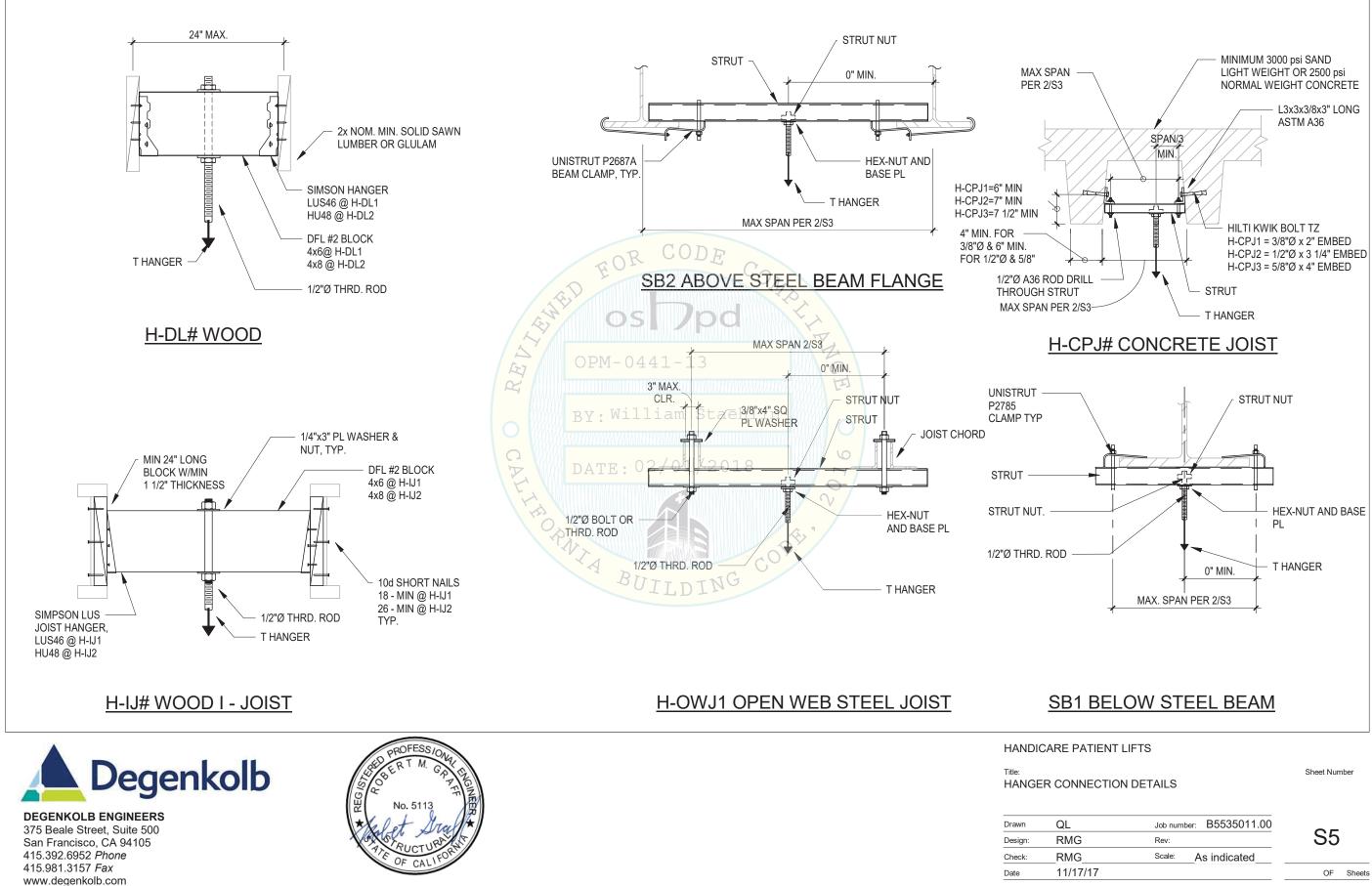
HANDICARE PATIENT LIFTS

HANGER CONNECTIONS

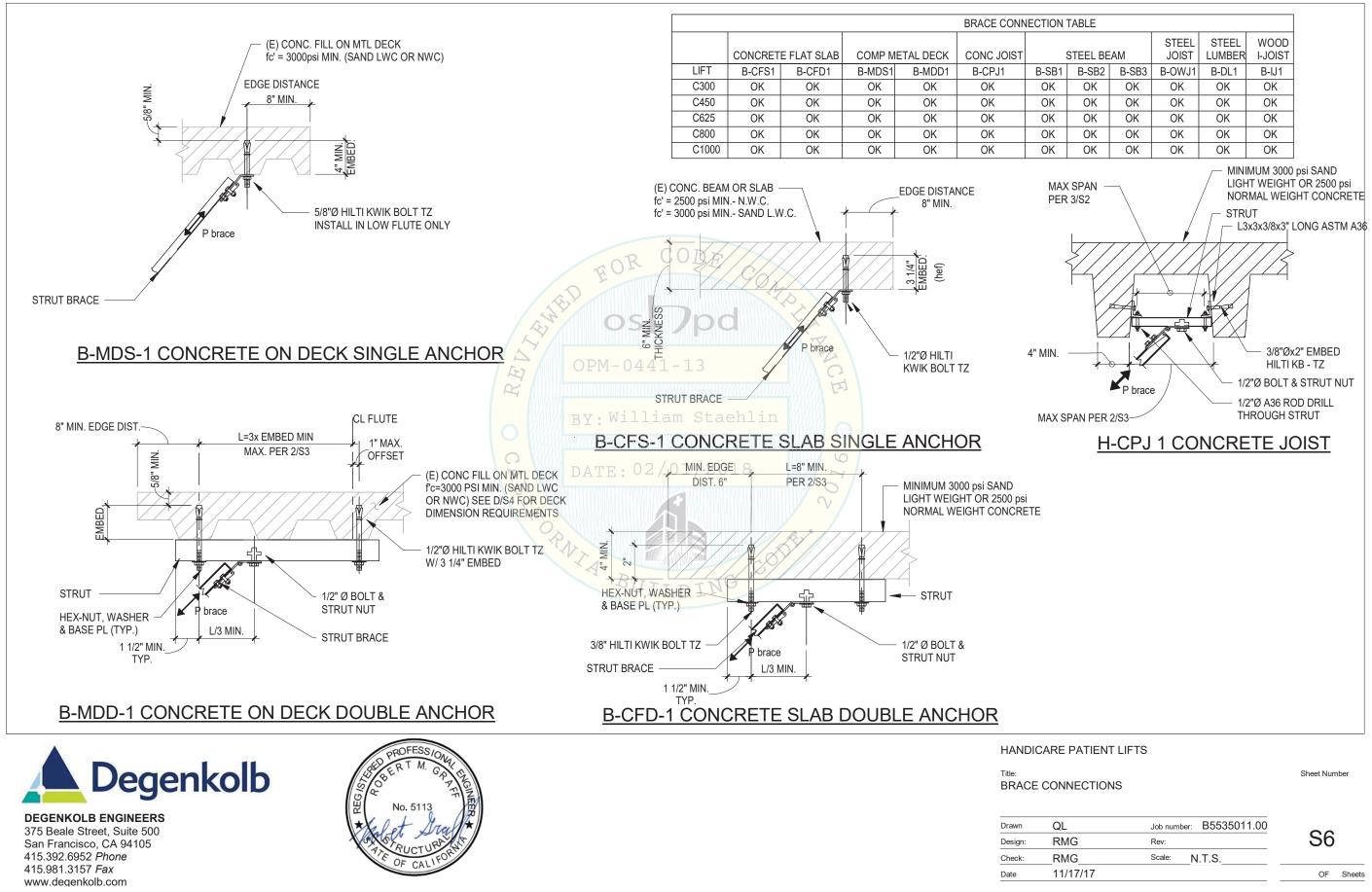
MSA	Job number:	B5535011.00
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RMG	Scale:	I.T.S.
11/17/17		

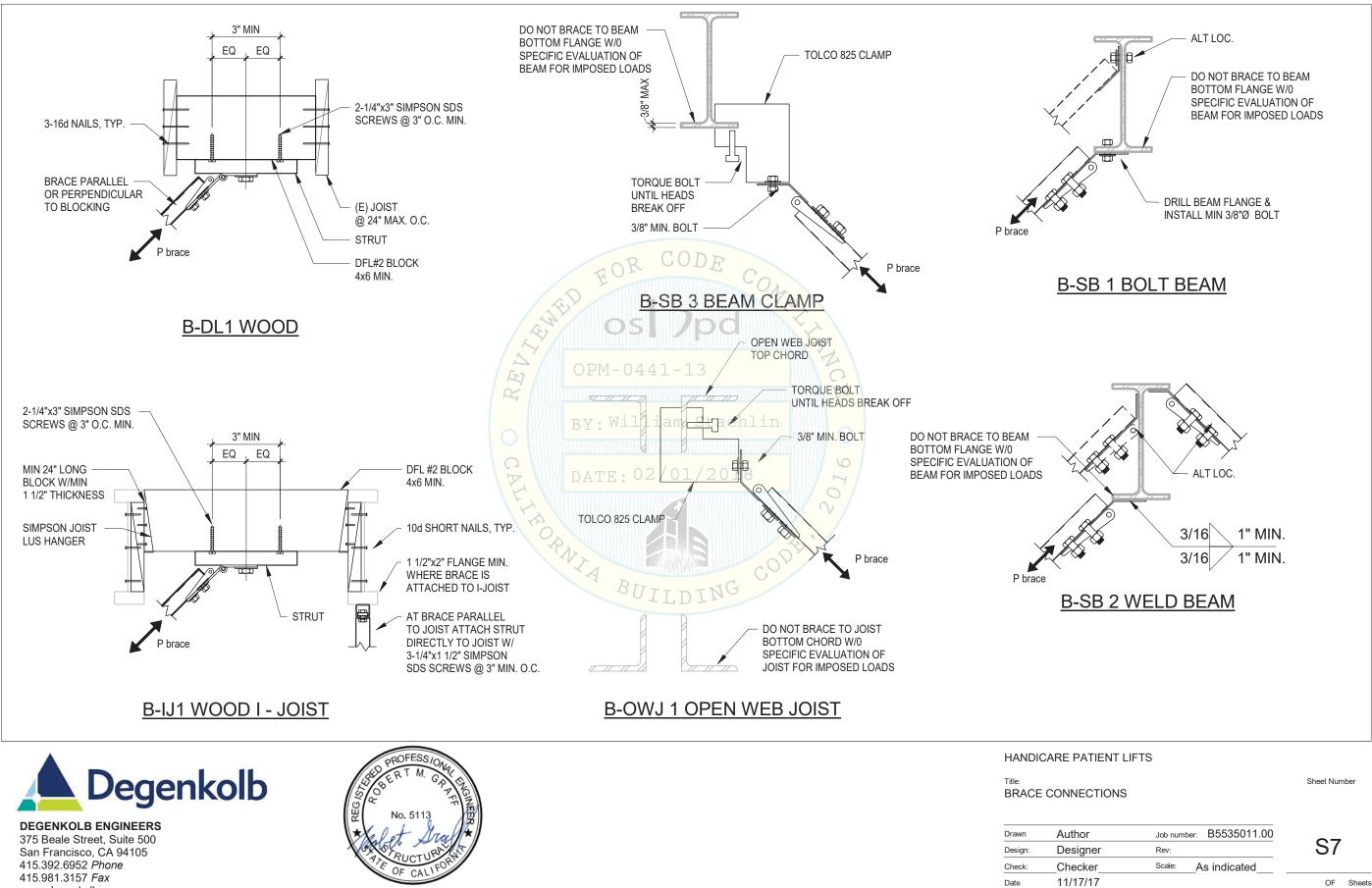
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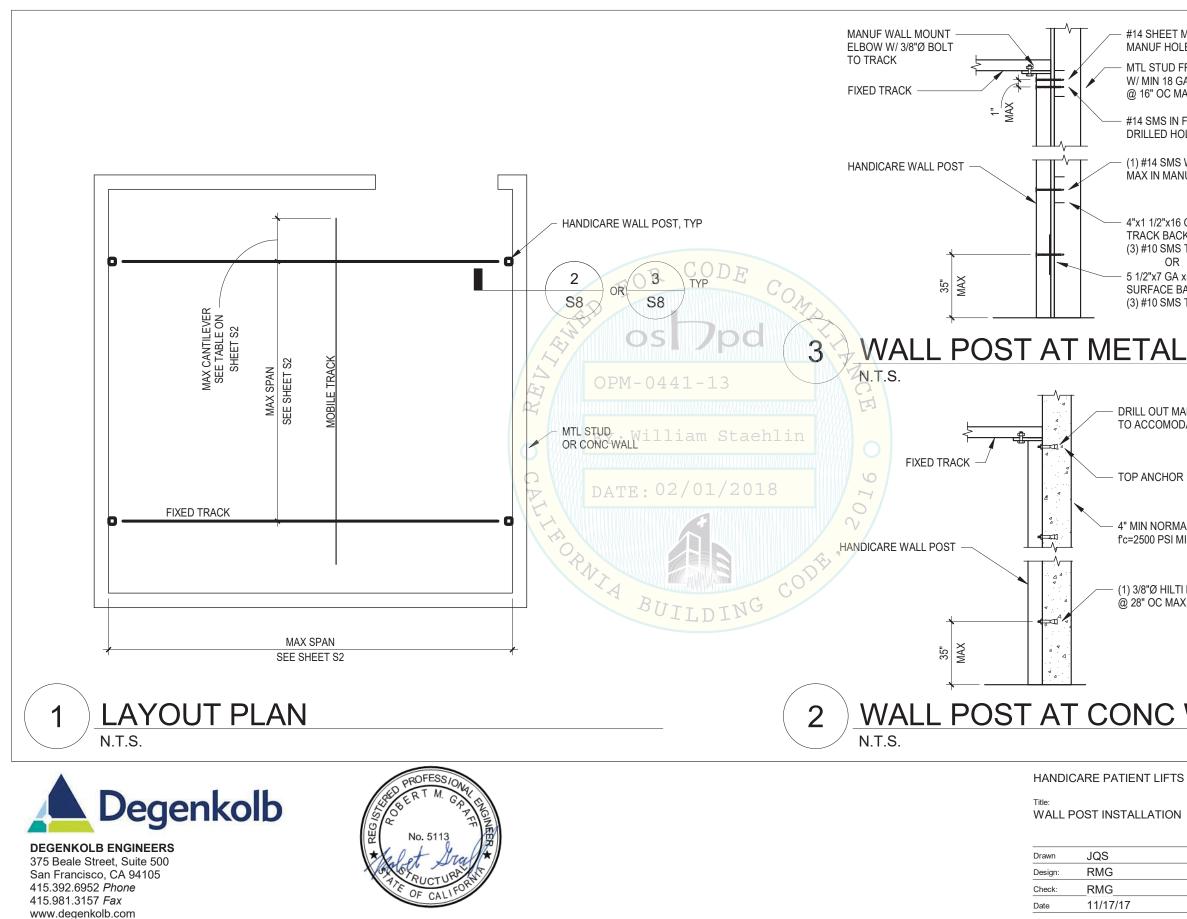
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RMG	Scale: A	s indicated
11/17/17		





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#14 SHEET METAL SCREW IN MANUF HOLE			
MTL STUD FRAMED WALL W/ MIN 18 GA STUDS @ 16" OC MAX			
#14 SMS IN FIELD DRILLED HOLE			
(1) #14 SMS W/ WASHER @ 28" OC MAX IN MANUF HOLE			
4"x1 1/2"x16 GA MIN TRACK BACKING W/ (3) #10 SMS TO EA STUD OR			
5 1/2"x7 GA x50 KSI SURFACE BACKING W/ (3) #10 SMS TO EA STUD			
METAL STUD WALL			
DRILL OUT MANUF. HOLE TO 7/16" TO ACCOMODATE ANCHOR, TYP			
TOP ANCHOR 1" FROM TOP OF POST			
4" MIN NORMAL WT CONC WALL W/ fc=2500 PSI MIN			
(1) 3/8"Ø HILTI KB-TZ W/ 2" EMBED @ 28" OC MAX, TYP			
_			
CONC WALL			

WALL POST INSTALLATION

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RMG	Scale:	As indicated
11/17/17		

Sheet Number

S8

OF Sheets

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