APPLICATION FOR OSHPD PREAPPROVAL OF	OFFICE USE ONLY									
MANUFACTURER'S CERTIFICATION (OPM)	APPLICATION #:	OPM-0550-19								
OSHPD Preapproval of Manufacturer's Certification (OPM)										
Type: New Renewal Update to Pre-CBC 2013 OPA Number:										
Manufacturer Information										
Manufacturer: Guerbet										
Manufacturer's Technical Representative: Steve Cox										
Mailing Address: 2111 E. Galbraith Road, Cincinnati, OH. 45237										
Telephone: On File Email: On File										
Product Information	MA									
Product Name: HydraVision Digital Imaging Urological Table										
Product Type: Other Mechanical or Electrical Component 0550-19										
Product Model Number: HydraVision DR, HydraVision Plus										
General Description: Patient Table used in Urological Surgeries										
DATE: 04/29/2019	7 6 7									
	700									
Applicant Information	Ş.									
Applicant Company Name: EASE Co.	307									
Contact Person: Jonathan Roberson, S.E.										
Mailing Address: 5877 Pine Ave. Suite 210, Chino Hills, CA. 91709										
Telephone: (909) 606-7622 Email: J.Roberson@EASECo.com I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2019.										
	_	0/5/40								
Signature of Applicant:	_	Date: 9/5/19								
Title: Principal Engineer Company Name: EASE	Co.									

OFFICE USE ONLY



## OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Registered Design Professional Preparing Engineering Recommendations								
Company Name:	EASE Co.							
Name: Jonathar	n Roberson, S.E. California License Number: S4197							
Mailing Address:	5877 Pine Ave. Suite 210, Chino Hills, CA. 91709							
Telephone: 909	9-606-7622 Email: <u>J.Roberson@EASECo.com</u>							
OSHPD Special S	Seismic Certification Preapproval (OSP)							
(Separate app	ic Certification is preapproved under OSP- lication for OSP is required) ic Certification is not preapproved							
Certification Met								
☐ Testing in acco	ease 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 OSHPD prior to testing.								
<ul><li>Analysis</li><li>Experience Da</li><li>Combination or</li></ul>	DATE: 04/29/2019  If Testing, Analysis, and/or Experience Data (Please Specify):							
	Control of the contro							
List of Attachmen	nts Supporting the Manufacturer's Certification							
☐ Test Report ☐ Other(s) (Ple	☐ Drawings ☐ Calculations ☐ Manufacturer's Catalog							
OFFICE HOE ONLY	/							
Signature: Manon	Date. 4/29/2020							
	eseong Lim							
Title: Senior Structure  Condition of Approv								



## **EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING**

5877 Pine Ave, Ste. 210 Chino Hills, CA. 91709 Phn: (909) 606-7622

Office of Statewide Health Planning and Development

## PREAPPROVAL OF MANUFACTURER'S CERTIFICATION OPM-0550-19

THIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE

MANUFACTURER: GUERBET

HYDRAVISION DIS UROLOGICAL TABLE

Sheet: 1 of 9 Date: 2/10/20

### **GENERAL NOTES**

**EQUIPMENT NAME:** 

- 1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2019 CBC. THE DEMANDS (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2019 CBC
- 2. THIS DOCUMENT MAY ONLY BE USED WITH THE EXPRESS WRITTEN CONSENT OF THE MANUFACTURER LISTED ABOVE FOR THE SPECIFIC PROJECT SITE AND INSTALLATION LOCATION. THIS DOCUMENT IS INVALID WITHOUT SUCH CONSENT.
- 3. THIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE WHERE SDS IS NOT GREATER THAN 0.70, 1.50, 2.00 & 1.50. SEE DETAIL FOR APPLICABILITY
- 4. FORCES PER ASCE 7-16 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE SDS = 0.70,  $\mathbf{a}_P$  = 1.0,  $I_P$  = 1.5,  $R_P$  = 1.5, z/h = 0 AT CONCRETE SLAB. SEE FOLLOWING SHEETS FOR  $\Omega_{\circ}$  WHERE SDS = 1.50,  $\mathbf{a}_P$  = 1.0,  $I_P$  = 1.5,  $I_P$  = 1.5,  $I_P$  = 0 AT CONCRETE SLAB. SEE FOLLOWING SHEETS FOR  $I_P$  WHERE SDS = 2.00,  $I_P$  = 1.0,  $I_P$  = 1.5,  $I_P$  = 1
- 5. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
- 6. ALL DESIGN FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR STRENGTH DESIGN.
- 7. CONCRETE SLAB ON METAL DECK DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION IN THE BUILDING. (i.e. z/h < 1)
- 8. CONCRETE SLAB DETAIL VALID FOR DEMANDS SHOWN AT OR BELOW GRADE. (i.e. z/h = 0)

#### 9. RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD OF THE BUILDING

- A. PROVIDE SUPPORTING STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN IN ADDITION TO ALL OTHER LOADS.
- B. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2019 CBC AND WITH THE DETAILS, MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PREAPPROVAL DOCUMENTS.
- C. VERIFY THAT PROJECT SPECIFIC VALUES OF SDS & z/h RESULT IN SEISMIC FORCES (Eh, Ev ) THAT DO NOT EXCEED THE VALUES ON THE DETAILS.
- D. VERIFY THAT THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ANCHORED MEETS THI REQUIREMENTS OF THE APPLICABLE ICC ESR REPORT. AND THIS OPM.
- E. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPENINGS (SEE TYPICAL DETAIL ON SHEET 2).
- F. VERIFY THAT ALL NEW OR EXISTING ANCHORS ARE AN ADEQUATE DISTANCE FROM THE UNIT ATTACHMENTS AND CHECK FOR INTERACTION WHERE OTHER ANCHORS ARE WITHIN 18" OR 6hef FROM THIS UNIT'S ANCHORS.



DES. J. ROBERSON

JOB NO.

DATE

11-1909

2/10/20

www.EquipmentAnchorage.com

SHEET

**SHEETS** 

## **GUERBET**

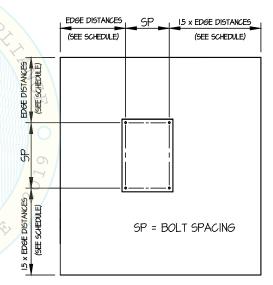
## HYDRAVISIÓN DIS UROLOGICAL TABLE

#### 10. POST INSTALLED ANCHORS:

 A. ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICC REPORT.

Anchor Diameter	Concrete Type	Min. f'c (psi)	Anchor Type	ICC Report No.	Min. Embed.	Min. Spacing	Min. Edge Dist.	Min. Conc. Thickness	Torque Test	Direct Tension Test
1/2"	Sand Light Weight	3000	Hilti Kwik Bolt TZ	ESR-1917	2"	6.75"	24"	See Detail "A"	40 FT-LB	N/A
3/4"	Normal Weight	4000	Hilti Kwik Bolt TZ	ESR-1917	4.75"	15"	24"	8"	110 FT-LB	6783 lb
3/4"	Normal Weight	4000	Hilti HIT-HY 200	ESR-3187	8"	15"	36"	10"	N/A	12,045 lb
3/4"	Normal Weight	4000	Hilti HIT-HY 200	ESR-3187	10"	15"	36"	12"	N/A	15,539 lb

- B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 24" OR 36" AWAY MINIMUM (i.e. - CORNER). SEE ADJACENT DETAIL FOR ADDITIONAL MINIMUM ALLOWABLE CONCRETE EDGE DISTANCES.
- C. TESTING OF POST INSTALLED ANCHORS PER 2019 CBC, 4910A.55 5 0 1 9 TESTING SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO OSHPD
  - (i) AFTER AT LEAST 24 HOURS HAVE ELAPSED SINCE INSTALLATION, DIRECT PULL TENSION TEST OR TORQUE TEST AT LEAST 50% OF 1 9 THE ANCHORS.
  - (ii) ACCEPTANCE CRITERIA:
    - DIRECT TENSION TEST: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE TEST LOAD, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER BECOMES LOOSE.
    - TORQUE TEST: THE APPLICABLE TORQUE MUST BE ACHIEVED WITHIN THE FOLLOWING LIMITS: WEDGE TYPE: 1/2 TURN OF THE NUT, NOT APPLICABLE TO ADHESIVE ANCHORS.
  - (iii) IF ANY ANCHOR FAILS, TEST ALL ANCHORS.
- D. AVOID DAMAGING EXISTING STEEL REINFORCING IN CONCRETE SLAB WHEN INSTALLING CONCRETE EXPANSION ANCHORS.
- E. PROVIDE FOR FULL THREAD ENGAGEMENT OF NUT & WASHER.
- 11. BOLTS THROUGH CONCRETE ON METAL DECK
  - A. BOLTS SHALL BE TORQUED BY 3/4 TURN OF THE NUTS AFTER THE SNUG TIGHT (THE SNUG-TIGHT CONDITION IS DEFINED AS THE TIGHTNESS REQUIRED TO BRING THE CONNECTED PLIES INTO FIRM CONTACT) CONDITION IS ACHIEVED, UNLESS OTHERWISE NOTED.
  - B. THROUGH BOLT HOLES SHALL BE 1/16" LARGER THAN BOLT SIZE (HOLE SIZE = BOLT SIZE + 1/16) FOR CONCRETE.
  - C. THROUGH-BOLTS IN CONCRETE SHALL RECEIVE SPECIAL INSPECTION AND TESTING (THROUGH BOLTS WITH STEEL TO STEEL CONNECTION IN TENSION DO NOT REQUIRE TENSION TESTING) IN ACCORDANCE WITH REQUIREMENTS FOR POST-INSTALLED ANCHORS.



TYPICAL CONCRETE EDGE DETAIL



## **EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING**

www.EquipmentAnchorage.com

## **GUERBET**

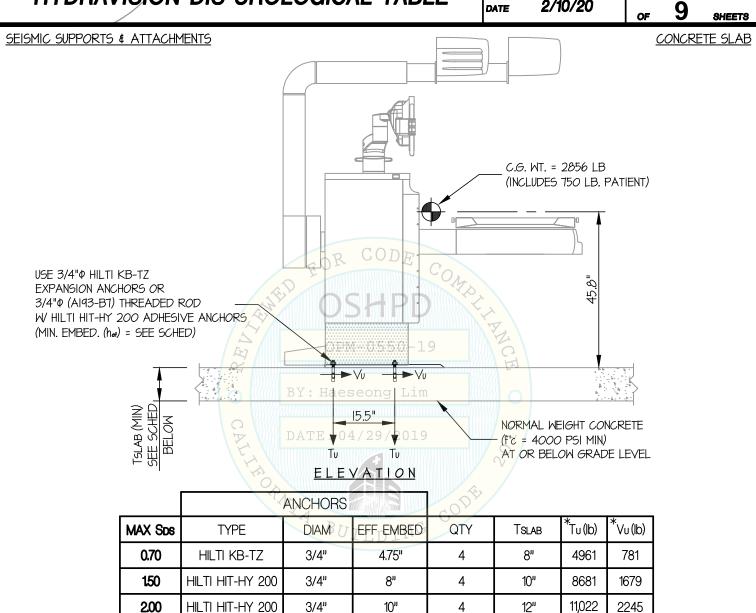
HYDRAVISION DIS UROLOGICAL TABLE

DES. J. ROBERSON

11-1909 JOB NO.

2/10/20

SHEET



\* VALUES INCLUDE  $\Omega_{\rm o}$ NOTES:

### 1. FORCES ARE DETERMINED PER 2019 CALIFORNIA BUILDING CODE AND ASCE 7-16.

STRENGTH DESIGN IS USED. (ap = 1.0, lp = 1.5, Rp = 1.5,  $\Omega_0$  = 1.5, z/h = 0)

- 2. CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THIS PREAPPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
- 3. STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.
- 4. SEE GENERAL NOTES: SHEETS 1 AND 2.



## **EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING**

www.EquipmentAnchorage.com

**GUERBET** 

DES. J. ROBERSON

11-1909

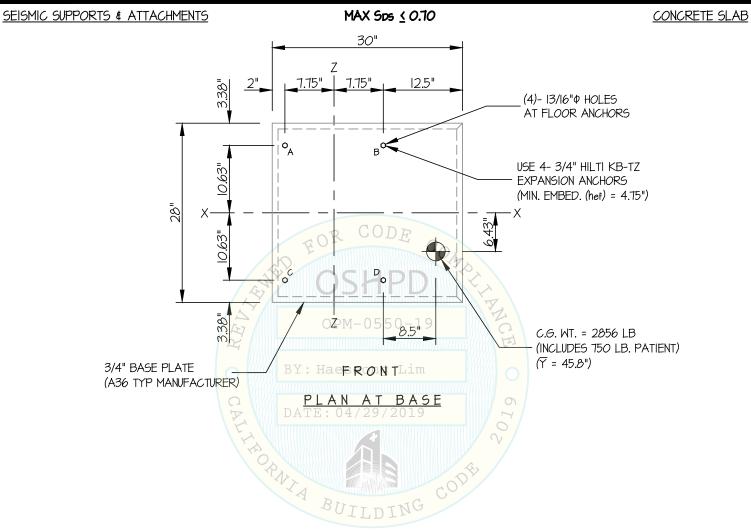
SHEET

HYDRAVISIÓN DIS UROLOGICAL TABLE

2/10/20 DATE

JOB NO.

OF SHEETS





# **GUERBET**

## **EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING**

www.EquipmentAnchorage.com

DES. J. ROBERSON

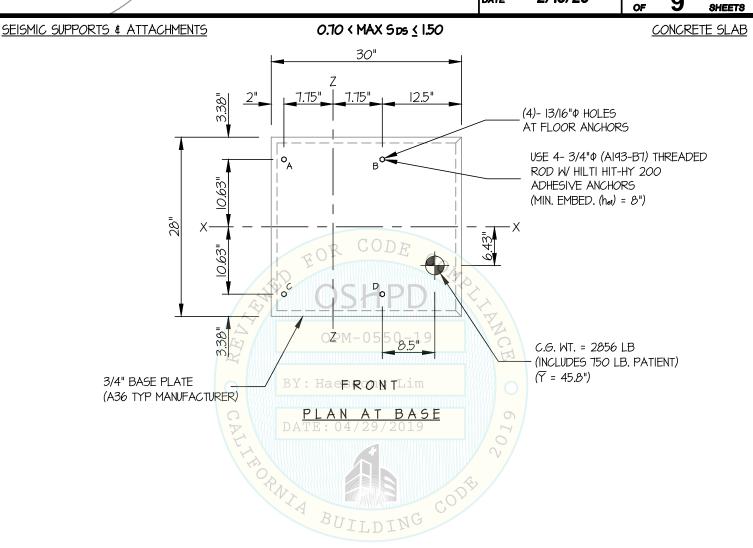
11-1909 JOB NO.

SHEET

HYDRAVISIÓN DIS UROLOGICAL TABLE

2/10/20 DATE

SHEETS





# GUERBET

## **EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING**

www.EquipmentAnchorage.com

DES. J. ROBERSON

11-1909

6

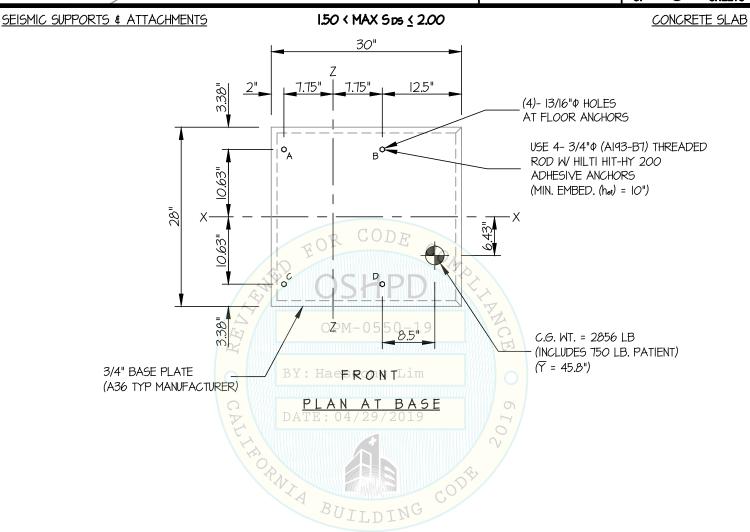
SHEET

HYDRAVISIÓN DIS UROLOGICAL TABLE

DATE 2/10/20

JOB NO.

OF 9 SHEETS





## EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

www.EquipmentAnchorage.com

**GUERBET** 

DES. J. ROBERSON

11-1909

7

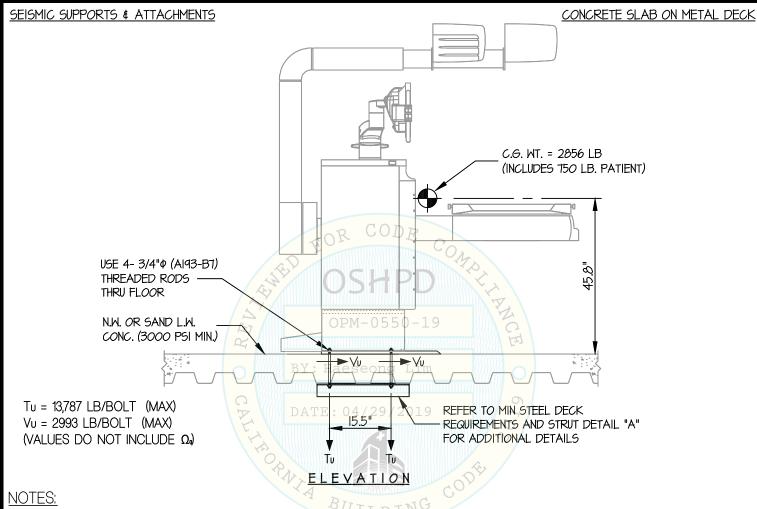
SHEET

HYDRAVISION DIS UROLOGICAL TABLE

DATE 2/10/20

JOB NO.

<u>9 sнеетв</u>



1. FORCES ARE DETERMINED PER 2019 CALIFORNIA BUILDING CODE AND ASCE 7-16.

STRENGTH DESIGN IS USED. (SDs = 1.50, Ap = 1.0, Ip = 1.5, Rp = 1.5,  $\Omega_0$  = 1.5,  $z/h \le 1$ )

HORIZONTAL FORCE (En) = 1.80 Wp HORIZONTAL FORCE (Emh) = 2.70 Wp (FOR CONCRETE ANCHORAGE) VERTICAL FORCE (Ev) = 0.30 Wp

- 2. CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THIS PREAPPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
- 3. STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.
- 4. SEE GENERAL NOTES: SHEETS 1 AND 2.



## EQUIPMENT ANCHORA

**EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING** 

www.EquipmentAnchorage.com

DES. J. ROBERSON
JOB NO. 11-1909

8

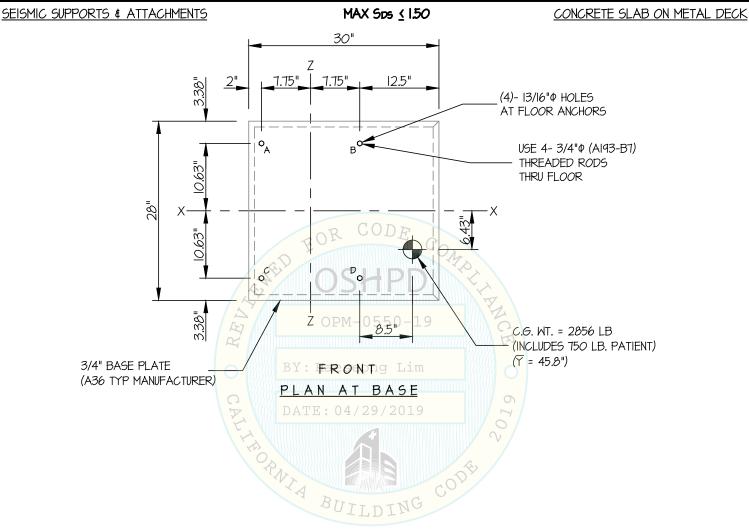
SHEET

HYDRAVISIÓN DIS UROLOGICAL TABLE

**GUERBET** 

DATE 2/10/20

OF 9 SHEETS





# EASE

### **EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING**

www.EquipmentAnchorage.com

**GUERBET** 

JOB NO. 11-1909

DATE

DES. J. ROBERSON

SHEET

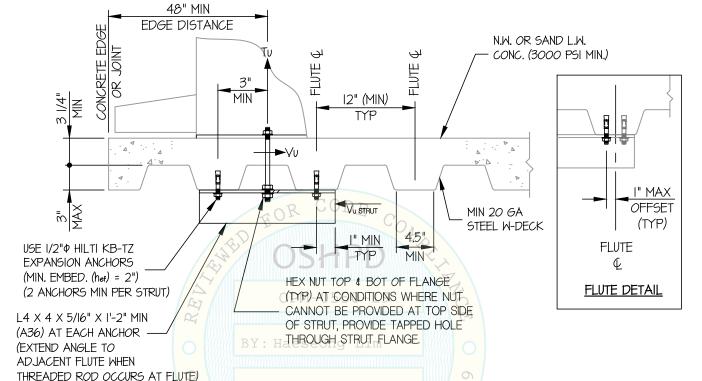
2/10/20

of 9 SHEETS

## HYDRAVISION DIS UROLOGICAL TABLE

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE DETAILS



MIN STEEL DECK REQUIREMENTS AND STRUT DETAIL

ORNIA BUI

