

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD PREAPPROVAL OF OFFICE USE ONLY **MANUFACTURER'S CERTIFICATION (OPM) APPLICATION #:** OPM-0370-13 OSHPD Preapproval of Manufacturer's Certification (OPM) □ Update to Pre-CBC 2013 OPA Number: Type: New New Renewal **Manufacturer Information** Manufacturer: Mobile Aspects, Inc. Manufacturer's Technical Representative: Khang Le Mailing Address: 3700 S. Water Street, Suite 310, Pittsburgh, PA 15203 khang.le@mobileaspects.com Telephone: (412) 325-1690 x 103 **Product Information** Product Name: Mobile Aspects RFID Cabinets Product Type: Storage Cabinet Product Model Number: iRISupply, iRIScope General Description: Radio Frequency Identification (RFID) enabled cabinets used to store and track hospital supplies such as stents and catheters (iRISupply) and endoscopes (iRIScope). **Applicant Information** ISAT Seismic Bracing Applicant Company Name: Contact Person: William V Joerger Mailing Address: 1020 Crews Road, Suite Q, Matthews NC 28105 Telephone: 510-714-0216 Email: wvjoerger@isatsb.com I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2013. Signature of Applicant: 07/27/2016 Date: Company Title: Principal Structural Engineer ISAT Seismic Bracing Name:

"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 5/30/13)





Page 1 of 2



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Registered Design Professional Preparing Engineering Recommendations								
Company Name:	ISAT Seismic Bracing							
Name: William	V Joerger	California License Number: S4545						
Mailing Address:	1020 Crews Rd, Matthews NC 2810	05						
Telephone: 510-714-0	216 Em	nail: wvjoerger@isatsb.o	com					
OSHPD Special Seism	nic Certification Preapproval (O	SP)						
	tification is preapproved under OSP- n for OSP is required)							
	nic Certification is not preapproved							
Certification Method(s)								
☐ Testing in accordance with: ☐ Other* (Please Sp		FM 1950-10						
Equipment is considered	to be rugged. OPM is for anchorage	to concrete slabs.						
supports and attachments seismic bracings, test crite to testing. Analysis Experience Data	those adopted by the California Builds are not permitted. For distribution syleria other than those adopted in the California Builds are not permitted. For distribution syleria other than those adopted in the California Builds are not permitted. For distribution syleria other than those adopted in the California Builds are not permitted. For distribution syleria other than those adopted by the California Builds are not permitted. For distribution syleria other than those adopted by the California Builds are not permitted. For distribution syleria other than those adopted in the California Builds are not permitted. For distribution syleria other than those adopted in the California Builds are not permitted.	ystem, interior partition wall, an CBSC 2013 may be used when	nd suspended ceiling					
		\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\						
List of Attachments S	upporting the Manufacturer's C	ertification						
☐ Test Report☐ Other(s) (Please	☑ Drawings ☑ Calculation Specify):	ons Manufacturer's C	Catalog					
OFFICE LISE ONLY - OS	SHPD APPROVAL VALID FOR CBC	2012 ONLV						
Signature: William St. Title: SSE Condition of Approval (if a	aehlin	Date:	09-19-2016					

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Page 2 of 2



A Division of Tomarco Contractor Specialties

Submittal Documents

OSHPD OPM-0370-13

iRISCOPE AND IRISUPPLY CABINET SUPPORTS AND ATTACHMENTS

CONSTRUCTION DRAWINGS

MOBILE ASPECTS, INC.

ISAT 1020 Crews Road Suite Q Matthews, N.C. 28105 704-841-4080

"Empowered by Experience"

OSHPD OPM-0370-13 CONST DWG - i

REV 1

09/19/2016

FILE NO.: CLT-0316-037



OSHPD OPM-0370-13

iRISCOPE AND IRISUPPLY

CONSTRUCTION DRAWING INDEX

Cover Page

Index Page

Construction Drawings

General Notes

Attachment Notes

iRISCOPE at Grade

iRISUPPLY at Grade

Miscellaneous Steel

Attachment Forces



OSHPD OPM-0370-13 CONST DWG - ii

OSHPD OPM-0370-13

MANUFACTURE: MOBILE ASPECTS EQUIPMENT TYPE: INSTRUMENT CABINET

GENERAL NOTES:

- 1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2013. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2013.
- 2. SEISMIC CRITERIA USED: $S_{DS} = 2.5$ $I_P = 1.5$ ap = 1.0 Rp = 1.5 (OTHER EQUIPMENT). FOR z/h = 0 FpH = 1.13 AND FOR $z/h \le 1.0$ FpH = 3.00 AND FpV = 0.50.
- 3. SUPPORT AND ATTACHMENT FORCES ARE DETERMINED USING ASCE 7-10 CHAPTER 13 "SEISMIC DESIGN REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS". AN OVERSTRENGTH FACTOR Ω_0 = 1.5 IS USED FOR CONCRETE MATERIALS PER ASCE 7-10 SUPPLEMENT 1 TABLE 13.6-1. LOADS SHOWN ARE STRENGTH DESIGN LOADS PER CBC 2013 SECTION 1909A.
- 4. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
- 5. STEEL MATERIALS: PLATE ASTM A36, ALL THREAD ROD ASTM F1554 GRADE36 (Fu = 58 KSI). BOLTS SUPPLIED BY MOBIL ASPECTS ARE STAINLESS STEEL CAP SCREW WITH TENSILE STRENGTH = 100 KSI AND STUDS ARE HFH-0518-16 STAINLESS STEEL WITH TENSILE STRENGTH = 65 KSI.
- 6. CONCRETE SLABS:
 - a. FOR ELEVATED SOLID CONCRETE SLABS: 6" THICKNESS OF NORMAL WEIGHT CONCRETE WITH 3000 PSI MINIMUM STRENGTH.
 - b. METAL DECK: 3" DEEP COMPOSITE STEEL DECK, 20 GAGE MINIMUM, 4 1/2 INCH MINIMUM BOTTOM FLUTE WIDTH AND FLUTE SPACING OF 12", WITH 3 1/4 INCH SAND LIGHT WEIGHT CONCRETE CONCRETE COVER AT 3000 PSI MINIMUM STRENGTH.
 - c. FOR SLAB ON GRADE: 6" THICKNESS NORMAL WEIGHT CONCRETE AT 4000 PSI MINIMUM STRENGTH.
- 7. POST-INSTALLED CONCRETE ANCHORS: HILTI KWIK BOLT TZ (ESR-1917) 1/2" DIAMETER x 4" MIN. HOLE DEPTH (3 1/4" EFFECTIVE EMBEDMENT) AND 40 FT-LBS INSTALLATION TORQUE (SUPPLIED BY INSTALLATION CONTRACTOR).
- 8. EXCERCISE DUE CARE WHEN DRILLING POST-INSTALLED ANCHORS TO AVOID DAMAGING CONCRETE REINFORCEMENT OR TENDONS.
- 9. PROVIDE FOR FULL ENGAGEMENT OF NUT AND WASHER.

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD

- 1. CONFIRM THE MATERIAL PROPERTIES AND THICKNESS OF THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ATTACHED MEETS THE REQUIREMENTS OF THIS OPM.

 By William Staehlin
- 2. PROVIDE A PLAN FOR INSPECTION OF SUPPORTS AND ATTACHMENTS AND VERIFY ITS IMPLEMENTATION.
- 3. CONFIRM THE SPECIFIED MINIMUM CONCRETE EDGE DISTANCES ARE MAINTAINED BASED ON THE ACTUAL EQUIPMENT LOCATION.

 VERIFY THAT EXISTING OR NEW ANCHORS ARE AN ADEQUATE DISTANCE FROM THIS UNIT'S ATTACHMENT.
- 4. VERIFY THAT THE EXISITING STRUCTURE IS ADEQUATE FOR THE IMPOSED DEAD, LATERAL AND TENSION FORCES SHOWN IN ADDITION TO ALL OTHER LOADS.
- 5. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH CBC 2013 AND WITH THE OPM-0370-13 DETAILS INCLUDING MATERIALS AND DIMENSIONS OF THE SUPPORT WHERE THE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN.
- 6. VERIFY THAT THE PROJECT SPECIFIC S_{DS} AND z/h VALUES RESULT IN SEISMIC FORCES (Eh AND EV) DO NOT EXCEED THE VALUES

OPM-0370-13 MOBILE ASPECTS IRISCOPE AND IRISUPPLY CABINETS GENERAL NOTES



OSHPD OPM-0370-13 CONST DWG - 1

OSHPD OPM-0370-13

MANUFACTURE: MOBILE ASPECTS
EQUIPMENT TYPE: INSTRUMENT CABINET

ATTACHMENT NOTES:

- 1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2013. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2013.
- 2. PERIODIC SPECIAL INSPECTION PER CBC 2013 SECTION 1705A AND TABLE 1705A.3 INCLUDING VERIFICATION OF ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, ANCHOR SPACING, EDGE DISTANCES, CONCRETE MEMBER THICKNESS, TIGHTENING TORQUE, HOLE DIMENSIONS, ANCHOR EMBEDMENT AND ADHERENCE TO THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. IN ADDITION, FOLLOW THE PROVISIONS OF THE 2013 CALIFONIA BUILDING CODE SECTION 1913A.7.2 BY CONFIRMING THE INSTALLATION TORQUE SPECIFIED BY THE MANUFACTURER. TESTING IS NOT TO OCCUR UNTIL A MINIMUM OF 24 HOURS HAS ELAPSED AFTER THE INSTALLATION OF THE SUBJECT ANCHORS. TESTING SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR. TEST 50% OF THE ANCHORS FOR EACH PIECE OF EQUIPMENT. USING A CALIBRATED TORQUE WRENCH VERIFY THE INSTALLATION TORQUE IS OBTAINED WITHIN 1/2 TURN OF THE NUT. REPORT OF TEST RESULTS ARE TO BE SUBMITTED TO THE ENFORCEMENT AGENGY. THE SEOR SHALL PROVIDE REMEDIAL ANCHORAGE DETAILS IN THE EVENT THAT AN ANCHOR FAILS TO MEET THE TEST REQUIREMENTS.
- 3. STRENGTH DESIGN WAS USED FOR ANCHOR FORCE CALCULATIONS INCLUDING Ω_0 PER ACI 318-11 WHERE REQUIRED FOR ATTACHMENT TO CONCRETE.
- 4. BOLTS THROUGH CONCRETE ON METAL DECK
 - A. BOLTS SHALL BE TORQUED BY 3/4 TURN OF THE NUTS AFTER SNUG TIGHT CONDITION IS ACHIEVED. THE SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS REQUIRED TO BRING THE CONNECTED PILES INTO FIRM CONTACT.
 - B. HOLES FOR THROUGH BOLTS IN CONCRETE SHALL BEING LARGER THAN THE BOLT SIZE PLUS 1/16" (BOLT DIA. + 1/16").
 - C. THROUGH BOLTS IN CONCRETE SHALL RECEIVE SPECIAL INSPECTION AND TESTING IN ACCORDANCE WITH THE REQUIREMENTS FOR POST-INSTALLED ANCHORS. TENSION TESTING FOR THROUGH BOLTS WITH STEEL TO STEEL CONNECTIONS DO NOT REQUIRE TENSION TESTING.

BY: William Staehlin

DATE: 09/19/2016

OPM-0370-13 MOBILE ASPECTS IRISCOPE AND IRISUPPLY CABINETS
ATTACHMENT NOTES



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DRAWN BY: WVJ **DATE:** 07/28/16

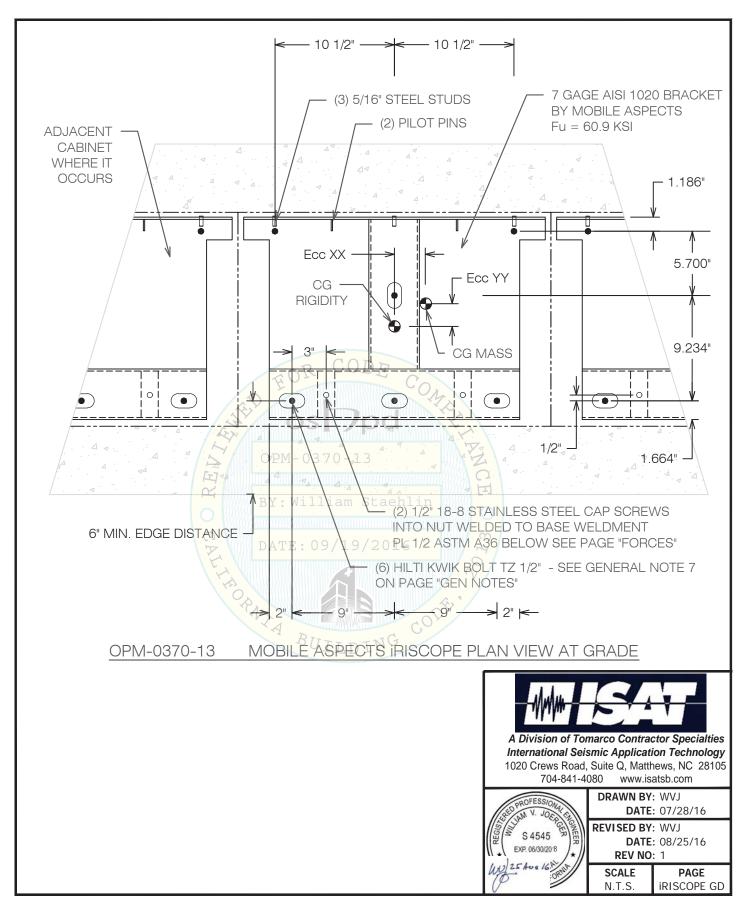
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REV NO: 1

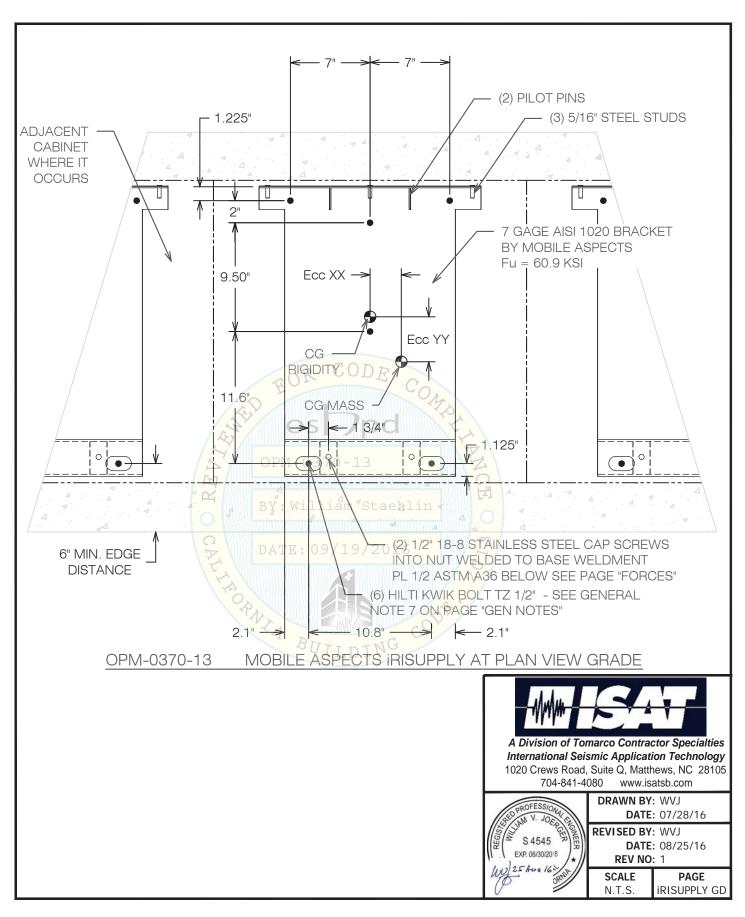
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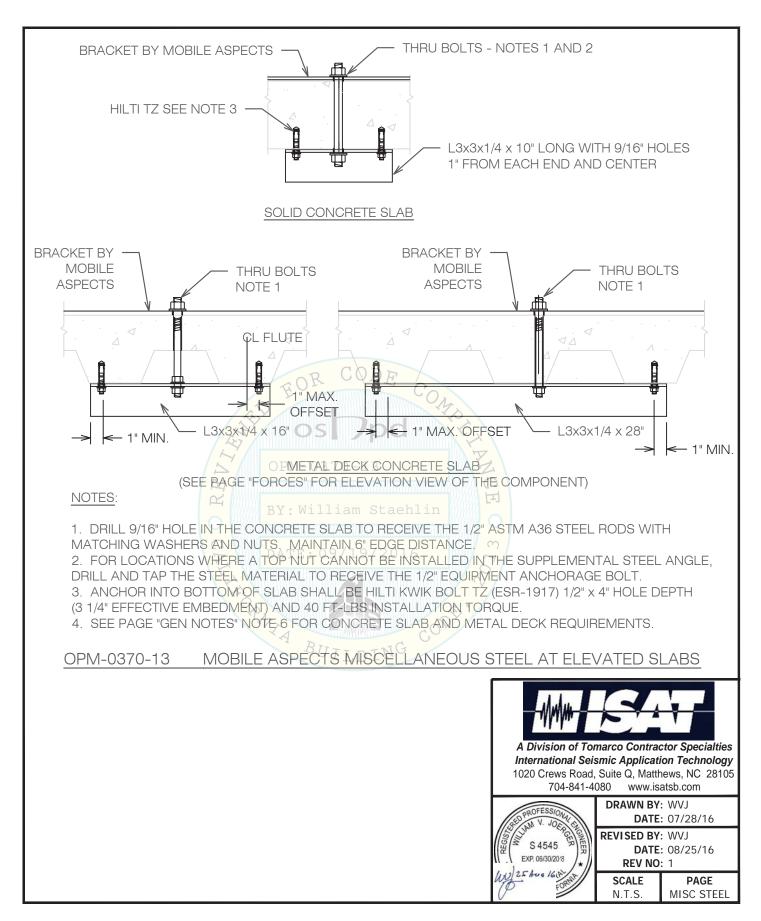
OSHPD OPM-0370-13 CONST DWG - 2



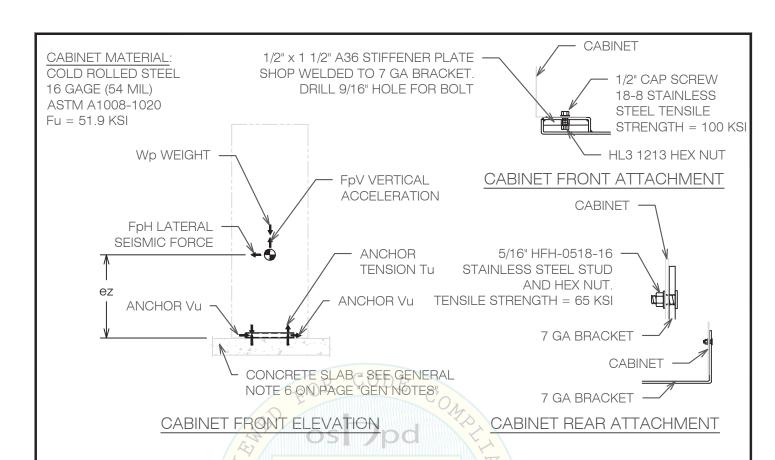
OSHPD OPM-0370-13 CONST DWG - 3



OSHPD OPM-0370-13 CONST DWG - 4



OSHPD OPM-0370-13 CONST DWG - 5



Equipment Data		Seismic Design Forces at Grade		Seismic Design Forces at Elevated				
Model Series	Weight	ex (in)	ey (in)	ez (in)	Vu (lbs.)	Tu (lbs.)	Vu (lbs.)	Tu (lbs.)
iRISUPPLY	400	2.75	2.66	^B 45.8 ^W	11112m Stae	1,542	535	2,736
iRISCOPE	380	2.75	1.88	46.4	150	1,211	401	2,163

- 1. WEIGHTS AND MOMENTS ARE FACTORED LOADS USING STRENGTH DESIGN AND INCLUDE THE FOLLOWING FACTORS: DL = 0.9, FPH AT GRADE = 1.13, FPH ELEVATED = 3.00 AND FPV = 0.5.
- 2. FORCES ARE AT STRENGTH DESIGN LEVEL AND INCLUDE A CONCRETE OVERSTRENGTH FACTOR Ω_0 = 1.5.

OPM-0370-13 MOBILE ASPECTS ATTACHMENT FORCES



OSHPD OPM-0370-13 CONST DWG - 6

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FORCES