

1. GENERAL

A. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH AND COORDINATED WITH THE ARCHITECTURAL DRAWINGS.

B. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, EQUIPMENTS AND PROCEDURES AND SHALL AT ALL TIMES TAKE ALL REASONABLE PRECAUTIONS FOR THE SAFETY OF ITS EMPLOYEES ON THE PROJECT, AND SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF FEDERAL, STATE AND MUNICIPAL SAFETY LAWS AND BUILDING CONSTRUCTION CODES.

C. IF EXISTING CONDITIONS MAKE IT NECESSARY TO REVISE STRUCTURAL DETAILS, ADVISE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY CHANGE.

D. STEEL STUD DESIGN IS NOT PART OF THE SCOPE OF WORK INCLUDED IN THESE DOCUMENTS. STEEL STUDS NOTICED ON THESE DRAWINGS ARE FOR DESIGN INTENT ONLY AND REVISIONS TO STEEL FRAMING IS TO BE DESIGNED BY A REGISTERED ENGINEER, TYPICALLY ENGAGED BY THE STEEL STUD FRAMING CONTRACTOR.

E. STEEL STAIRS SHALL BE DESIGNED FOR LOADS AND DEFLECTION CRITERIA CONSISTENT WITH THE LOAD DATA ON THESE DRAWINGS AND INDUSTRY STANDARDS. ALL FORMER FRAMING SECTION DRAWINGS SHALL SHOW LAYOUT, SECTIONS, SIZES, THICKNESSES, FASTENINGS, ANCHORAGES AND CONNECTION DETAILS AT ALL TIMES.

F. STEEL STAIRS SHALL BE ENGINEERED BY A PROFESSIONAL REGISTERED ENGINEER UNLESS OTHERWISE NOTED. SHOP DRAWINGS INCLUDING PLANS, SECTIONS AND ATTACHMENTS TO STRUCTURE SHALL BE PROVIDED FOR REVIEW.

2. DESIGN CRITERIA

A. BUILDING DESIGNED IN ACCORDANCE WITH THE 2009 INTERNATIONAL BUILDING CODE STEEL DESIGN - ABC 13TH EDITION CONCRETE DESIGN - ACI 318-08

B. ROOF LIVE LOAD = 30PSF (EXISTING)

C. ROOF SNOW LOAD

GROUND SNOW LOAD	$S_g = 25.0$ PSF
FLAT ROOF SNOW LOAD	$S_f = 10.0$ PSF
SNOW EXPOSURE FACTOR	$C_e = 1.0$
SNOW LOAD IMPORTANCE FACTOR	$I_s = 1.2$

D. WIND LOADS DESIGNED IN ACCORDANCE WITH THE 2009 INTERNATIONAL BUILDING CODE

1. BASIC WIND SPEED (3 SECOND GUST) = 90 MPH

2. WIND EXPOSURE CATEGORY = B

3. WIND IMPORTANCE FACTOR $I_w = 1.5$

4. CLADDING SHALL BE DESIGNED FOR THE WIND PRESSURE TABULATED BELOW. DEFLECTION CALCULATIONS MAY USE TOP OF TABULATED VALUES

ZONE PER FIG. 6-3	EFFECTIVE WIND AREA	POSITIVE PRESSURE PSF	NEGATIVE PRESSURE PSF
1	50	+1.5	-15.8
2	50	+1.5	-21.2
3	50	+1.5	-25.4
4	10	+6.8	-18.2
4	20	+6.0	-17.4
4	50	+4.9	-16.4
4	100	+4.3	-15.6
5	10	+6.8	-22.4
5	20	+6.0	-20.9
5	50	+5.0	-19.0
5	100	+4.3	-17.4

E. EARTHQUAKE DESIGN DATA

1. OCCUPANCY CATEGORY IV

2. SPECTRAL RESPONSE COEFFICIENTS: $S_{0.05} = 0.100$, $S_{0.1} = 0.034$, $S_{0.2} = 0.125$, $S_{0.5} = 0.048$

3. SITE CLASS C

4. SEISMIC DESIGN CATEGORY - A

5. SEISMIC IMPORTANCE FACTOR $I_e = 1.5$

F. MECHANICAL ANCHORAGE $I_p = 1.5$

3. CONCRETE

A. REINFORCING STEEL - ASTM A615 GRADE 60 WELDED WIRE FABRIC - ASTM A183 MESH

B. UNLESS OTHERWISE NOTED ON THE DRAWINGS, LAP SPICES SHALL BE A CLASS B SPICE.

C. CONCRETE (28 DAY STRENGTH)

CONCRETE AS REQUIRED - 4000 NORMAL WEIGHT CONCRETE (NONE SHOWN IN DESIGN) - REPAIR AS REQUIRED.

4. STRUCTURAL STEEL

A. ALL WIDE FLANGE STRUCTURAL STEEL SHALL BE ASTM A992. ALL OTHER STEEL SHALL BE ASTM A572 GRADE 50. UNLESS NOTED OTHERWISE, ALL STEEL SHALL CONFORM TO ASTM A572 GRADE 50. PIPE SHALL BE ASTM A53 GRADE B OR ASTM A106 GRADE B. ALL STEEL SHALL BE HOT DIPPED GALVANIZED TO MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE AISC SPECIFICATIONS FOR STRUCTURAL STEEL. ALL CONNECTIONS ARE TO BE WELDED UNLESS OTHERWISE NOTED ON THE DRAWINGS OR ONE HALF CONNECTIONS ARE TO BE BOLTED UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL CONNECTIONS SHALL BE DESIGNED FOR THE ALLOWABLE UNIFORM LOADS OF THE STRUCTURE AND SHALL BE DESIGNED IN ACCORDANCE WITH THE AISC SPECIFICATIONS FOR STRUCTURAL STEEL. ALL CONNECTIONS SHALL BE MADE BY OPERATORS QUALIFIED WITH THE DESCRIPTIONS IN AWS D1.1, SEE SPECIFICATIONS.

B. FABRICATORS SHOP DRAWING SHALL SHOW AND NOTE ALL MATERIAL REQUIRED WITH RESPECTIVE LOCATIONS AND SUPPORT DETAILS FOR PROPER FABRICATION AND ERECTION IN ACCORDANCE WITH ALL CONTRACT DRAWINGS AND DOCUMENTS.

C. STEEL DECK SIZE AND GAGE SHALL BE AS INDICATED ON PLANS. ALL DECK SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION. THREE BEAM AND EQUIPMENT TO HANG FROM STEEL DECK. RESPECTIVE CONTRACTOR PROVIDE SUPPORT AS REQUIRED. EQUIPMENT LIGHTS SHALL BE MOUNTED ON STEEL DECK WITH CONCRETE SLAB. MATCH EXISTING SIZE, PROPERTIES AND FINISH AS REQUIRED.

D. ROOF AND FLOOR OPENINGS NOT SHOWN ON PLANS SHALL BE FRAMED WITH 3" X 3" X 1/4" ANGLE.

E. INDICATES MOMENT CONNECTION.

F. CONNECTIONS NOT DETAILED IN THE CONSTRUCTION DOCUMENTS SHALL BE DESIGNED BY FABRICATOR OR DETAILER. ALL CONNECTIONS SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER.

G. STEEL STAIRS DRAWINGS TO BE SUBMITTED AND REVIEWED. DRAWING AND DESIGN TO BE BY A REGISTERED PROFESSIONAL ENGINEER IN PROJECT'S STATE.

5. SHOP DRAWINGS

A. ALL SHOP DRAWINGS MUST BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL.

B. THE GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW OF THE FOLLOWING APPLICABLE ITEMS:

1. ALL STRUCTURAL STEEL INCLUDING MISCELLANEOUS MEMBERS, STEEL FABRICATION SHOP DRAWINGS TO BE SUBMITTED TO STRUCTURAL ENGINEER APPROVING FABRICATION. THE STRUCTURAL ENGINEER TO REVIEW DRAWINGS FOR COMPLIANCE WITH DESIGN INTENT AND REVISIONS TO STEEL FRAMING IS TO BE DESIGNED BY THE STEEL FABRICATOR. THE STEEL FABRICATOR IS RESPONSIBLE FOR ALL DISCREPANCIES.
2. STEEL STAIRS (*)
3. STRUCTURAL STEEL DECK
4. CONCRETE MIX DESIGN
5. MECHANICAL EQUIPMENT REQUIRING STRUCTURAL SUPPORT
6. UNISTRUT DRAWINGS

ITEMS MARKED (*) SHALL HAVE SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT LOCATION.

6. UNISTRUT SYSTEM

A. DESCRIPTION

1. CONTRACTOR TO PROVIDE AND INSTALL MEDICAL SUPPORT SYSTEM(S) AS INDICATED ON THE REFLECTED CEILING PLANS. RAILS SHALL BE ON CENTERS AS REQUIRED BY EQUIPMENT MANUFACTURERS SPECIFICATIONS AND AS REQUIRED BY CODE. A PRE-CONSTRUCTION MEETING SHALL BE HELD TO DISCUSS AND REVIEW THE UNISTRUT SYSTEM AND TO ESTABLISH TOLERANCES AND LEVELS. TOLERANCES INDICATED WILL BE LESS THAN AS APPLIED DUE TO EQUIPMENT OPERATION.

B. QUALITY ASSURANCE

1. MATERIAL AND INSTALLATION SHALL BE PROVIDED BY A QUALIFIED VENDOR WITH AT LEAST FIVE (5) YEARS EXPERIENCE IN THE MANUFACTURE AND INSTALLATION OF ADJUSTABLE METAL TRUSS SYSTEMS. THE VENDOR SHALL MAINTAIN A CONTINUING QUALITY ASSURANCE PROGRAM FOR BOTH THE MATERIAL AND INSTALLATION.
2. VENDOR SHALL PROVIDE THE SINGLE SOURCE RESPONSIBILITY FOR MATERIALS AND WORKMANSHIP AND SHALL PROVIDE A WARRANTY PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE BY ARCHITECT/OWNER.
3. SHOP DRAWINGS SHALL BE PROVIDED BY VENDOR OR VENDOR QUALIFIED ENGINEER.
4. ACCEPTABLE VENDORS: UNISTRUT CORPORATION AND/OR ITS AUTHORIZED REPRESENTATIVE.

C. MATERIALS

1. MATERIALS: MATERIALS USED SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS: ASTM A572 GRADE 50, ASTM A570 GAGE 33, ASTM A575, ASTM A576, GRADE 50, SAE J429 GRADE 2.
2. ALL MATERIALS SHALL BE PROTECTED FROM CORROSION WITH A FACTORY APPLIED FINISH. WHERE APPROPRIATE, DO NOT USE MATERIALS THAT APPEAR DAMAGED, DISTRESSED, UNIDENTIFIABLE OR RUSTED.

D. SUBMITTAL

1. DRAWINGS TO BE REVIEWED AND STAMPED BY GENERAL CONTRACTOR PRIOR TO SUBMITTAL.

E. DESIGN

1. SUPPORT STRUCTURE: THE SUPPORT MEMBERS AT THE CEILING PLANS SHALL BE LOCATED AS INDICATED ON THE DRAWINGS. THEY SHALL CONSIST OF UNISTRUT SERIES XRAY CHANNELS. UNISTRUT CHANNELS SHALL BE INSTALLED IN ACCORDANCE WITH THE UNISTRUT INSTALLATION MANUAL. CEILING FIXTURES AND EQUIPMENT IT SHALL BE POSSIBLE TO ATTACH THE MEDICAL EQUIPMENT AT ANY POINT IN THE SUPPORT SYSTEM.
2. CEILING ANCHORAGE: WHENEVER POSSIBLE, ATTACHMENT TO CEILING STRUCTURE ABOVE SHALL BE MADE BY MEANS OF EMBEDDED CONCRETE DECKERS, THROUGH BOLTS, OR BY DIRECT ATTACHMENT TO THE STRUCTURAL FRAMING OF THE BUILDING.
3. VERTICAL SUPPORTS: THE EXPOSED SERIES RAILS AND THE CEILING ANCHORAGE SHALL BE CONNECTED BY A SERIES OF 1/2 GAUGE VERTICAL SUPPORTS AS INDICATED ON THE DRAWINGS. ALL VERTICAL SUPPORTS SHALL BE REGULATORY BRACED TO MEET ALL SEISMIC CODE REQUIREMENTS AND AS INDICATED ON THE DRAWINGS.
4. WORKMANSHIP: THE SUPPORT STRUCTURE SHALL BE DESIGNED TO SUPPORT A CONCENTRATED LOAD OF 1250 LBS AT ANY SINGLE POINT ALONG THE EXPOSED TAILS. THE CONCENTRATED LOAD SHALL BE APPLIED IN A MANNER THAT WILL BE ENCLOSED BY POSITIONING THE EQUIPMENT AT THE EXTREMITIES OF ITS TRAVEL. MAXIMAL LOAD CAPACITY SHALL BE WITH A SAFETY FACTOR OF 1.75 BASED ON ULTIMATE STRENGTH UNDER STATIC LOADING CONDITIONS.

F. INSTALLATION

1. FIELD MEASUREMENTS: THE CONTRACTOR SHALL MAKE FIELD MEASUREMENTS TO ASSURE THAT THE UNISTRUT SYSTEM CAN BE INSTALLED ACCORDING TO PLANS AND WITHOUT INTERFERENCE WITH STRUCTURAL FRAMING, MECHANICAL SYSTEMS, PIPING OR OTHER OBSTRUCTIONS.
2. SEQUENCING: THE CONTRACTOR SHALL ASSURE THAT THE SUPPORT SYSTEM IS INSTALLED IN A TIMELY AND PRACTICAL SEQUENCE AHEAD OF ANY EXTENSIVE ELECTRICAL, MECHANICAL OR HVAC WORK IN THE AREA AND PRIOR TO ANY CEILING FRAMING OR ROOF FINISHES.
3. PAINTING: ALL EXPOSED MEMBERS SHALL BE PAINTED BY THE PAINTING CONTRACTOR WITH PAINT COMPATIBLE TO THE SUPPORT SYSTEMS.
4. MODIFICATIONS: ANY CHANGES OR MODIFICATIONS FROM APPROVED SHOP DRAWINGS SHALL REQUIRE APPROVAL FROM THE ARCHITECT AND ENGINEER AND SHALL BE NOTED ON THE FINAL DRAWINGS.
5. INSTALLATION OF UNISTRUT KICKERS CAN BE MODIFIED FROM LAYOUT ON FRAMING PLANS. KICKERS MUST BE INSTALLED AT AN ANGLE BETWEEN 30° - 60°.

7. POST INSTALLED ANCHORS

A. ADHESIVE ANCHORAGES HAVE BEEN SPECIFIED IN ACCORDANCE WITH Hilti DESIGN DATA. THE Hilti DESIGN DATA SHALL BE SUBSTITUTED BY ANY OF THE BELOW LISTED MANUFACTURERS PROVIDED THE MANUFACTURER'S QUALIFICATIONS ARE SHOWN TO BE EQUIVALENT TO Hilti'S. THE MANUFACTURER'S QUALIFICATIONS SHALL BE ON THE BASIS OF DESIGN ANCHORAGE OR EXCEEDS THE STRENGTH OF THE BASIS OF DESIGN ANCHORAGE.

B. ANCHORAGE TO CONCRETE

1. ADHESIVE ANCHORAGES SHALL BE TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH THE Hilti DESIGN DATA AND MEET LOAD SPECIFIED SUCH AS:
2. HILTI HIT-REPAIR
3. HILTI HIT-CEMENT-BOND
4. HILTI HIT-CONCRETE-BOND
5. HILTI HIT-CONCRETE-BOND
6. HILTI HIT-CONCRETE-BOND
7. HILTI HIT-CONCRETE-BOND
8. HILTI HIT-CONCRETE-BOND
9. HILTI HIT-CONCRETE-BOND
10. HILTI HIT-CONCRETE-BOND

FOR HILTI PRODUCTS, STEEL ELEMENTS SHALL BE HILTI HAS CONTINUOUSLY THREADED ROD, HILTI HAS INTERMEDIATELY THREADED INSERTS OR CONTINUOUSLY THREADED STEEL REBAR. ALL COVER PRODUCTS, STEEL ELEMENTS SHALL BE ASTM A307 GRADE C, ASTM A193 GRADE B1, OR ASTM A307 GRADE B. ALL STEEL ELEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE Hilti DESIGN DATA. ALL PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS THAT MEET OR EXCEEDS REQUIREMENTS.

2. MECHANICAL EXPANSION ANCHORS SHALL BE TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH THE Hilti DESIGN DATA AND MEET LOAD SPECIFIED SUCH AS:
3. HILTI HIT-REPAIR
4. HILTI HIT-CEMENT-BOND
5. HILTI HIT-CONCRETE-BOND
6. HILTI HIT-CONCRETE-BOND
7. HILTI HIT-CONCRETE-BOND
8. HILTI HIT-CONCRETE-BOND
9. HILTI HIT-CONCRETE-BOND
10. HILTI HIT-CONCRETE-BOND

FOR MECHANICAL UNDERCUT ANCHORS SHALL BE TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH THE Hilti DESIGN DATA AND MEET LOAD SPECIFIED SUCH AS:

1. HILTI HIT-REPAIR
2. HILTI HIT-CEMENT-BOND
3. HILTI HIT-CONCRETE-BOND
4. HILTI HIT-CONCRETE-BOND
5. HILTI HIT-CONCRETE-BOND
6. HILTI HIT-CONCRETE-BOND
7. HILTI HIT-CONCRETE-BOND
8. HILTI HIT-CONCRETE-BOND
9. HILTI HIT-CONCRETE-BOND
10. HILTI HIT-CONCRETE-BOND

C. INSTALLATION

CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL FASTENERS ACCORDING TO MANUFACTURERS SPECIFICATIONS AND AS REQUIRED BY CODE. A PRE-CONSTRUCTION MEETING SHALL BE HELD TO DISCUSS AND REVIEW THE UNISTRUT SYSTEM AND TO ESTABLISH TOLERANCES AND LEVELS. TOLERANCES INDICATED WILL BE LESS THAN AS APPLIED DUE TO EQUIPMENT OPERATION.

1. FIELD MEASUREMENTS: THE CONTRACTOR SHALL MAKE FIELD MEASUREMENTS TO ASSURE THAT THE UNISTRUT SYSTEM CAN BE INSTALLED ACCORDING TO PLANS AND WITHOUT INTERFERENCE WITH STRUCTURAL FRAMING, MECHANICAL SYSTEMS, PIPING OR OTHER OBSTRUCTIONS.
2. SEQUENCING: THE CONTRACTOR SHALL ASSURE THAT THE SUPPORT SYSTEM IS INSTALLED IN A TIMELY AND PRACTICAL SEQUENCE AHEAD OF ANY EXTENSIVE ELECTRICAL, MECHANICAL OR HVAC WORK IN THE AREA AND PRIOR TO ANY CEILING FRAMING OR ROOF FINISHES.
3. PAINTING: ALL EXPOSED MEMBERS SHALL BE PAINTED BY THE PAINTING CONTRACTOR WITH PAINT COMPATIBLE TO THE SUPPORT SYSTEMS.
4. MODIFICATIONS: ANY CHANGES OR MODIFICATIONS FROM APPROVED SHOP DRAWINGS SHALL REQUIRE APPROVAL FROM THE ARCHITECT AND ENGINEER AND SHALL BE NOTED ON THE FINAL DRAWINGS.
5. INSTALLATION OF UNISTRUT KICKERS CAN BE MODIFIED FROM LAYOUT ON FRAMING PLANS. KICKERS MUST BE INSTALLED AT AN ANGLE BETWEEN 30° - 60°.

three inches = one foot
one and one half inch = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

GENERAL NOTES

Revisions #	Description	Date
1	100% DESIGN DEVELOPMENT SUBMISSION	05/03/2013

CONSULTANTS:

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ARCHITECT/ENGINEER:

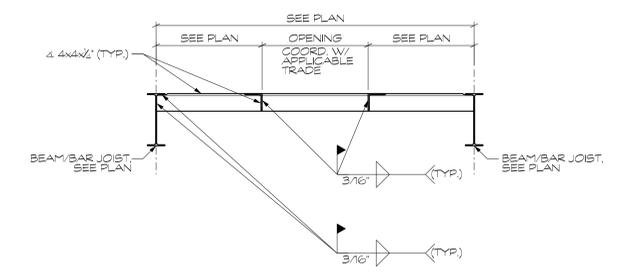
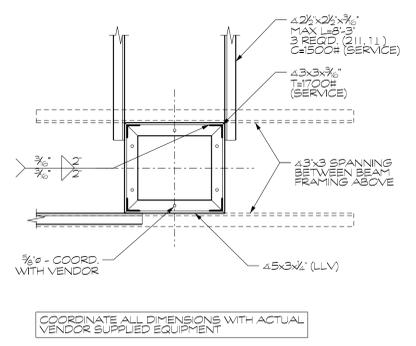
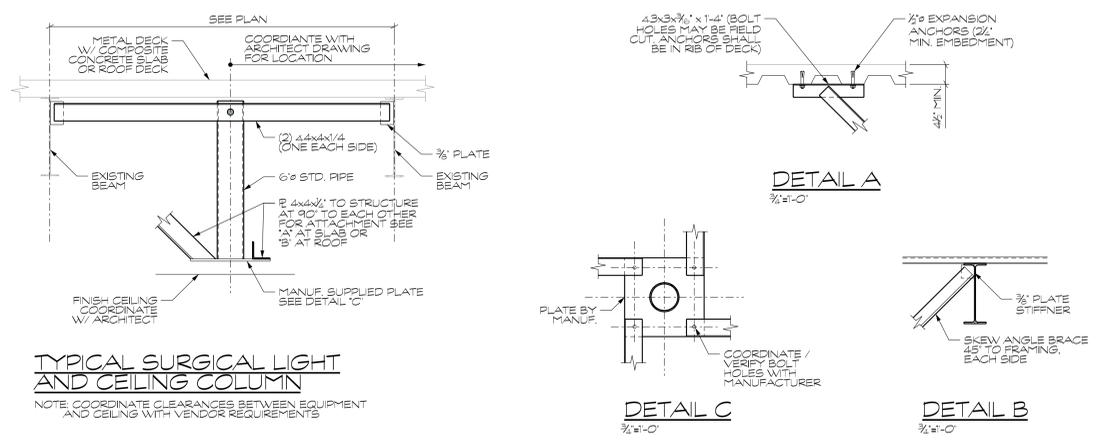
PROJECT NUMBER: 2010.056.00
CAD FILE:
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Drawing Title:
GENERAL NOTES

Approved/Project Director:

100% CONSTRUCTION DOCUMENT SUBMISSION
FULLY SPRINKLERED

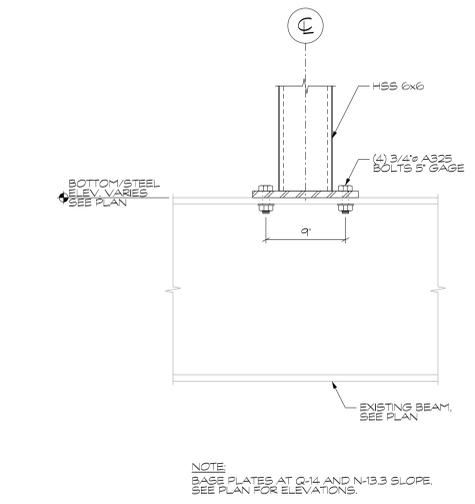
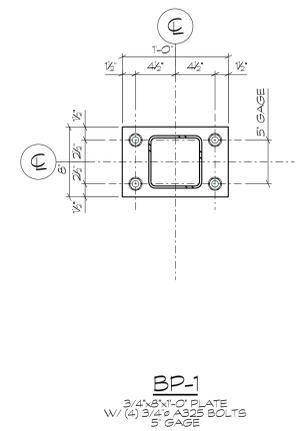
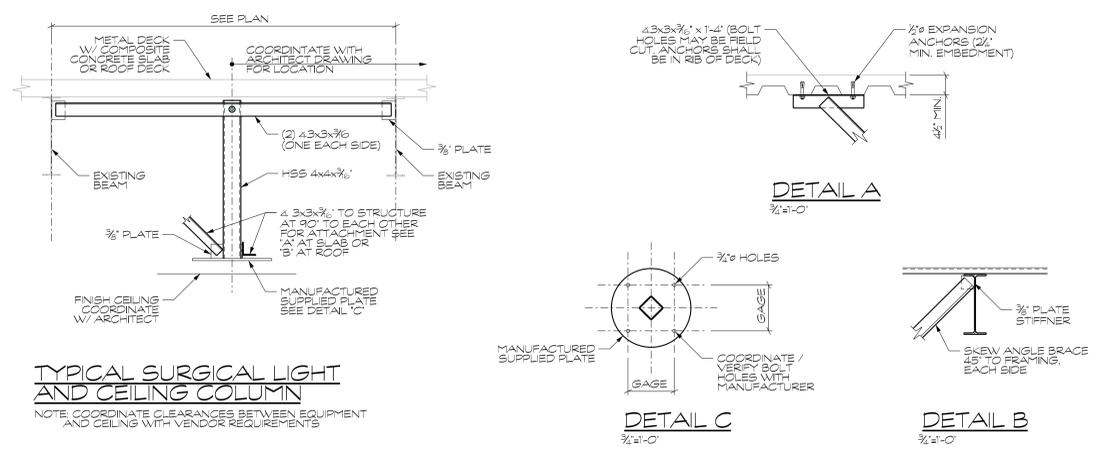
Project Title VAPHS OPERATING ROOM EXPANSION	Project Number 646-09-131	Office of Construction and Facilities Management
Location (UD) UNIVERSITY DRIVE DIVISION PITTSBURGH, PA 15240	Building Number ONE	
Date 06/10/13	Checked TAA/DGF	Drawn SRG
Drawing Number S200		Department of Veterans Affairs



1 BERCHTOLD TYPICAL SURGICAL LIGHT AND CEILING COLUMN
 S300 NO SCALE

2 TYPICAL MEDICAL GAS COLUMN DETAIL
 S300 NO SCALE

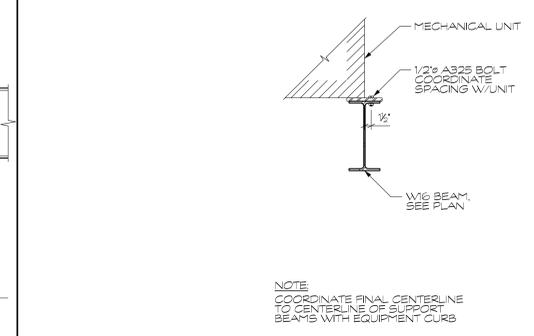
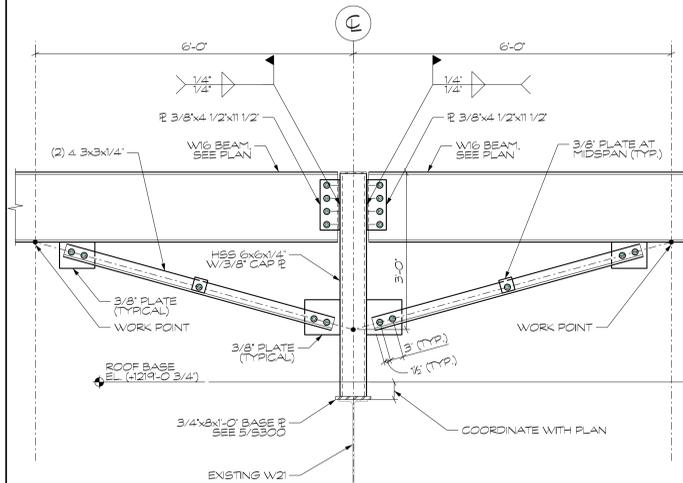
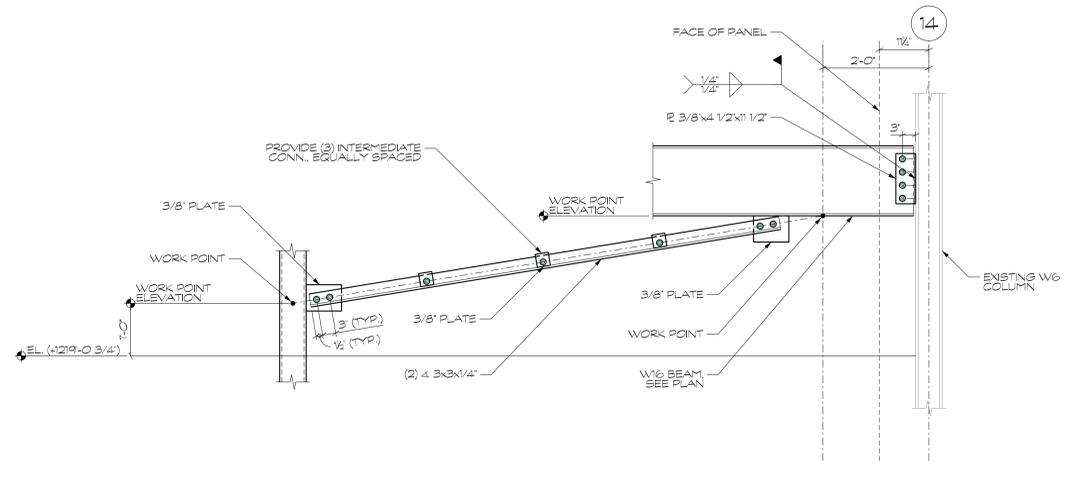
3 TYPICAL NEW OPENING AT EXISTING DETAIL
 S300 NO SCALE



4 TYPICAL SURGICAL LIGHT AND CEILING COLUMN
 S300 3/4" x 1'-0"

5 TYPICAL BASE PLATE DETAIL
 S300 1 1/2" x 1'-0"

6 SECTION
 S300 1 1/2" x 1'-0"



7 SECTION
 S300 3/4" x 1'-0"

8 SECTION
 S300 3/4" x 1'-0"

9 SECTION
 S300 3/4" x 1'-0"

**100% CONSTRUCTION DOCUMENT SUBMISSION
 FULLY SPRINKLERED**

Revisions #	Description	Date
100%	DESIGN DEVELOPMENT SUBMISSION	05/03/2013

CONSULTANTS:

Fitzpatrick ENGINEERING GROUP PLLC
 STRUCTURAL ENGINEERS

CONSULTANTS:
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 LICENSE NO. 11071

ARCHITECT/ENGINEER:

PROJECT NUMBER: 2010.056.00
 CAD FILE:
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Drawing Title:
 SECTIONS AND DETAILS

Approved/Project Director:

Project Title:
 VAPHS OPERATING ROOM EXPANSION

Location:
 (UD) UNIVERSITY DRIVE DIVISION
 PITTSBURGH, PA 15240

Date: 06/10/13
Checked: TAA/DGF
Drawn: SRG

Project Number: 646-09-131
Building Number: ONE
Drawing Number: S300
 4 Dwg of 5

Office of Construction and Facilities Management
 Department of Veterans Affairs

SCHEDULE OF SPECIAL INSPECTION SERVICES

- STRUCTURAL STEEL
- CAST-IN-PLACE CONCRETE
- MASONRY
- WOOD
- SOILS AND FOUNDATIONS
- PILES
- PERS
- SPRAY-FIRE-RESISTANT MATERIAL
- MASTIC, INTUMESCENT COATINGS
- EXTERIOR INSULATION AND FINISH SYSTEM
- SPECIAL CASES

SCHEDULE OF QUALIFICATIONS OF AGENCIES, INSPECTORS, AND TESTING TECHNICIANS

- CASE FORM 101
- SPECIAL INSPECTION AGENCIES SHALL MEET THE FOLLOWING REQUIREMENTS:
1. AGENCY SHALL BE OBJECTIVE AND COMPETENT, OBTAINING POSSIBLE CONFLICTS OF INTEREST.
 2. AGENCY SHALL HAVE ADEQUATE EQUIPMENT, PERIODICALLY CALIBRATED TO PERFORM REQUIRED TESTS.
 3. PERSONNEL SHALL EMPLOY EXPERIENCED PERSONNEL, EDUCATED TO CONDUCT, SUPERVISE AND EVALUATING TESTS AND/OR INSPECTIONS.

THE FOLLOWING KEY IS USED IN THE SCHEDULES OF SPECIAL INSPECTION TO IDENTIFY THE MINIMUM QUALIFICATIONS FOR THE INSPECTION AGENTS

SE	STRUCTURAL ENGINEER - A LICENSED SE OR SE SPECIALIZING IN THE DESIGN OF BUILDING STRUCTURES AND REGISTERED IN THE STATE OF THE PROJECT
GE	GEOTECHNICAL ENGINEER - A LICENSED PE SPECIALIZING IN SOIL MECHANICS AND FOUNDATIONS AND REGISTERED IN THE STATE OF THE PROJECT
ET	ENGINEERING TRAINING - A GRADUATE ENGINEER WHO HAS PASSED THE FUNDAMENTALS OF ENGINEERING EXAMINATION
ACI	AMERICAN CONCRETE INSTITUTE - GRADE 1 CERTIFIED CONCRETE FIELD TESTING TECHNICIAN
QW	AMERICAN WELDING SOCIETY - CERTIFIED WELDING INSPECTOR
BCWI	AMERICAN WELDING SOCIETY - SENIOR CERTIFIED WELDING INSPECTOR
CAWI	AMERICAN WELDING SOCIETY - CERTIFIED ASSOCIATE WELDING INSPECTOR
ASNT	AMERICAN SOCIETY OF NON-DESTRUCTIVE TESTING - LEVEL II OR III
SMI	STRUCTURAL MASONRY SPECIAL INSPECTOR - CERTIFIED BY ICBO
SWI	STRUCTURAL STEEL AND WELDING SPECIAL INSPECTOR
SPSI	SPRAY-APPLIED PREPROOFING SPECIAL INSPECTOR
PCSI	PRESTRESSED CONCRETE SPECIAL INSPECTOR
RCSI	REINFORCED CONCRETE SPECIAL INSPECTOR

SPECIAL INSPECTION GENERAL NOTES
2009 INTERNATIONAL BUILDING CODE

- THE SPECIAL INSPECTION AGENCY FOR THIS SCOPE OF WORK SHALL:
1. OBTAIN CERTIFICATES OF QUALIFICATION FOR TESTING PERSONNEL
 2. OBTAIN CERTIFICATES OF QUALIFICATION FOR TESTING PERSONNEL IN ACCORDANCE WITH THE SCHEDULE ABOVE
 3. REPORT TO THE SPECIAL INSPECTOR AT THE PROJECT ON A DAILY BASIS. THE REPORTS SHALL CONTAIN THE FOLLOWING INFORMATION AS A MINIMUM:
 - a. NAME AND ADDRESS OF AGENCY
 - b. NAME AND ADDRESS OF INSPECTION
 - c. NAME AND ADDRESS OF THE PROJECT
 - d. NAME AND ADDRESS OF THE ARCHITECT
 - e. NAME AND ADDRESS OF THE CONTRACTOR
 - f. NAME AND ADDRESS OF THE SPECIAL INSPECTOR
 - g. NAME AND ADDRESS OF THE TESTING AGENCY
 - h. NAME AND ADDRESS OF THE TESTING PERSONNEL
 - i. NAME AND ADDRESS OF THE TESTING EQUIPMENT
 - j. NAME AND ADDRESS OF THE TESTING MATERIAL
 - k. NAME AND ADDRESS OF THE TESTING METHOD
 - l. NAME AND ADDRESS OF THE TESTING RESULTS
 - m. NAME AND ADDRESS OF THE TESTING REPORT
 4. PROVIDE AGENCY'S FINAL REPORT INDICATING THAT ALL TESTS HAS BEEN COMPLETED WITH A COMPLETE LIST OF OUTSTANDING DISCREPANCIES
 5. PROVIDE AGENCY'S FINAL REPORT INDICATING THAT ALL TESTS HAS BEEN COMPLETED WITH A COMPLETE LIST OF OUTSTANDING DISCREPANCIES
 6. PROVIDE AGENCY'S FINAL REPORT INDICATING THAT ALL TESTS HAS BEEN COMPLETED WITH A COMPLETE LIST OF OUTSTANDING DISCREPANCIES
 7. PROVIDE AGENCY'S FINAL REPORT INDICATING THAT ALL TESTS HAS BEEN COMPLETED WITH A COMPLETE LIST OF OUTSTANDING DISCREPANCIES
 8. PROVIDE AGENCY'S FINAL REPORT INDICATING THAT ALL TESTS HAS BEEN COMPLETED WITH A COMPLETE LIST OF OUTSTANDING DISCREPANCIES
 9. PROVIDE AGENCY'S FINAL REPORT INDICATING THAT ALL TESTS HAS BEEN COMPLETED WITH A COMPLETE LIST OF OUTSTANDING DISCREPANCIES
 10. PROVIDE AGENCY'S FINAL REPORT INDICATING THAT ALL TESTS HAS BEEN COMPLETED WITH A COMPLETE LIST OF OUTSTANDING DISCREPANCIES

INSPECTION OF FABRICATORS (IBC REFERENCE 1704.2)

- WHERE FABRICATION OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATOR, THE SPECIAL INSPECTION OF THE FABRICATOR SHALL BE REQUIRED BY THIS SECTION AND AS SET FORTH THEREIN. THE SPECIAL INSPECTOR SHALL:
1. OBTAIN CERTIFICATES OF QUALIFICATION FOR TESTING PERSONNEL
 2. OBTAIN CERTIFICATES OF QUALIFICATION FOR TESTING PERSONNEL IN ACCORDANCE WITH THE SCHEDULE ABOVE
 3. REPORT TO THE SPECIAL INSPECTOR AT THE PROJECT ON A DAILY BASIS. THE REPORTS SHALL CONTAIN THE FOLLOWING INFORMATION AS A MINIMUM:
 - a. NAME AND ADDRESS OF AGENCY
 - b. NAME AND ADDRESS OF INSPECTION
 - c. NAME AND ADDRESS OF THE PROJECT
 - d. NAME AND ADDRESS OF THE ARCHITECT
 - e. NAME AND ADDRESS OF THE CONTRACTOR
 - f. NAME AND ADDRESS OF THE SPECIAL INSPECTOR
 - g. NAME AND ADDRESS OF THE TESTING AGENCY
 - h. NAME AND ADDRESS OF THE TESTING PERSONNEL
 - i. NAME AND ADDRESS OF THE TESTING EQUIPMENT
 - j. NAME AND ADDRESS OF THE TESTING MATERIAL
 - k. NAME AND ADDRESS OF THE TESTING METHOD
 - l. NAME AND ADDRESS OF THE TESTING RESULTS
 - m. NAME AND ADDRESS OF THE TESTING REPORT
 4. PROVIDE AGENCY'S FINAL REPORT INDICATING THAT ALL TESTS HAS BEEN COMPLETED WITH A COMPLETE LIST OF OUTSTANDING DISCREPANCIES
 5. PROVIDE AGENCY'S FINAL REPORT INDICATING THAT ALL TESTS HAS BEEN COMPLETED WITH A COMPLETE LIST OF OUTSTANDING DISCREPANCIES
 6. PROVIDE AGENCY'S FINAL REPORT INDICATING THAT ALL TESTS HAS BEEN COMPLETED WITH A COMPLETE LIST OF OUTSTANDING DISCREPANCIES
 7. PROVIDE AGENCY'S FINAL REPORT INDICATING THAT ALL TESTS HAS BEEN COMPLETED WITH A COMPLETE LIST OF OUTSTANDING DISCREPANCIES
 8. PROVIDE AGENCY'S FINAL REPORT INDICATING THAT ALL TESTS HAS BEEN COMPLETED WITH A COMPLETE LIST OF OUTSTANDING DISCREPANCIES
 9. PROVIDE AGENCY'S FINAL REPORT INDICATING THAT ALL TESTS HAS BEEN COMPLETED WITH A COMPLETE LIST OF OUTSTANDING DISCREPANCIES
 10. PROVIDE AGENCY'S FINAL REPORT INDICATING THAT ALL TESTS HAS BEEN COMPLETED WITH A COMPLETE LIST OF OUTSTANDING DISCREPANCIES

CONTRACTOR RESPONSIBILITY (IBC REFERENCE 1709)

- THE CONTRACTOR:
1. AS SUB-CONTRACTOR RESPONSIBLE FOR WORK ON BEARING OR WIND RESISTING SYSTEM SHALL PROVIDE A WRITTEN NOTICE OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER CONTAINING THE FOLLOWING:
 - a. IDENTIFICATION OF SPECIAL INSPECTION SERVICES
 - b. IDENTIFICATION OF PERSONAL RESPONSIBILITIES OF SPECIAL INSPECTION
 - c. IDENTIFICATION OF PERSONAL RESPONSIBILITIES OF SPECIAL INSPECTION
 - d. IDENTIFICATION OF PERSONAL RESPONSIBILITIES OF SPECIAL INSPECTION
 2. IDENTIFY PERSON WITH FIRM RESPONSIBILITY FOR SPECIAL INSPECTION REPORT DISTRIBUTION INCLUDING CONTACT INFORMATION.
 3. SHALL PROVIDE ADEQUATE NOTICE FOR SPECIAL INSPECTION AGENT TO COMPLETE THEIR INSPECTION PRIOR TO WORK BEING COVERED.
 4. SHALL REQUIRE THAT SUB-CONTRACTORS COMPLETE THEIR WORK SO THAT THE SPECIAL INSPECTOR CAN COMPLETELY CHECK A GIVEN AREA WITHOUT HAVING TO DOUBLE CHECK LATER.

SCHEDULE OF SPECIAL INSPECTIONS
STRUCTURAL STEEL (IBC REFERENCE 1704.3)

VERIFICATION AND INSPECTION	FREQUENCY	REFERENCED STANDARDS	AGENT
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS	PERIODIC	ASTM A307 SECTION A3.3	
2. IDENTIFICATION MARKINGS TO CONFORM TO MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	PERIODIC	ASTM SPECS	
3. INSPECTION OF HIGH-STRENGTH BOLTING	PERIODIC	ASTM A307 SECTION A3.3	
4. BEARING TYPE CONNECTIONS	PERIODIC	ASTM A307 SECTION A3.3	
5. SUPER-CRITICAL CONNECTIONS	PERIODIC	ASTM A307 SECTION A3.3	
6. TURN-OF-THE-NUT WITH MATCH-MARKING, DIRECT TENSION INDICATOR	CONTINUOUS		SWSI
7. CALIBRATED WRENCH, TURN-OF-THE-NUT WITHOUT MATCH-MARKING	CONTINUOUS		SWSI
8. MATERIAL VERIF. OF STRUCTURAL STEEL AND DECK		ASTM A 6 OR A 99 SECTION 10.3.4	
9. IDENTIFICATION MARKINGS TO CONFORM TO MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED			
10. IDENTIFICATION MARKINGS TO CONFORM TO MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED		ASTM A 6 OR A 99 SECTION A3.5	
11. INSPECTION OF WELDING			
12. STRUCTURAL STEEL	CONTINUOUS	AWS D11 SECTION 10.4.3.1	QWI
13. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	CONTINUOUS	AWS D11	QWI
14. MULTI-PASS FILLET WELDS	CONTINUOUS	AWS D11	QWI
15. SINGLE-PASS FILLET WELDS - 5/16"	CONTINUOUS	AWS D11	QWI
16. PLUG AND SLOT WELDS	CONTINUOUS	AWS D11	QWI
17. SINGLE-PASS FILLER WELDS - 5/16" - SEE NOTE 1 BELOW	PERIODIC	AWS D11	QWI
18. FLOOR AND DECK WELDS - SEE NOTE 1 BELOW	PERIODIC	AWS D1.3	QWI
19. REINFORCING STEEL - NOT ALLOWED ON THIS PROJECT			
20. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH THESE DRAWINGS	PERIODIC	IBC 1704.3.2	
21. DETAILS SUCH AS BRACINGS AND STIFFENING MEMBER CONNECTIONS			
22. APPLICATION OF JOINT DETAILS AT EACH CONNECTION			

- NOTES:
1. PROVIDE VISUAL INSPECTION OF ALL WELDS.
 2. STRUCTURAL QUALIFICATIONS OF SPECIAL INSPECTORS FOR DESIGNATION.
 3. SEE SPECIAL INTERMEDIATE MOMENT RESISTING FRAME TESTING SCHEDULE, FIG. 10.4.3.2.
 4. MOMENT CONNECTIONS ARE REQUIRED FOR THIS PROJECT.

three inches = one foot
one and one half inch = one foot
one inch = one foot
three fourths inch = one foot
one half inch = one foot
one quarter inch = one foot
three eighths inch = one foot
one eighth inch = one foot

100% CONSTRUCTION DOCUMENT SUBMISSION
FULLY SPRINKLERED

<p>1 S900 NO SCALE</p>		<p>CONSULTANTS:</p>  		<p>ARCHITECT/ENGINEER:</p>		<p>Drawing Title: SPECIAL INSPECTION NOTES</p>		<p>Project Title VAPHS OPERATING ROOM EXPANSION</p>		<p>Project Number 646-09-131</p>		<p>Office of Construction and Facilities Management</p>	
<p>Revisions # Description Date</p>		<p>100% DESIGN DEVELOPMENT SUBMISSION 05/03/2013</p>		<p>PROJECT NUMBER: 2010.056.00 CAD FILE: COPYRIGHT WEBER MURPHY FOX INC. 2013</p>		<p>Approved/Project Director:</p>		<p>Location (UD) UNIVERSITY DRIVE DIVISION PITTSBURGH, PA 15240</p>		<p>Building Number ONE</p>		<p>Drawing Number S900</p>	
								<p>Date 06/10/13</p>		<p>Checked TAA/DGF</p>		<p>Drawn SRG</p>	
										<p>5 Dwg of 5</p>			