

PROJECT NO. 101116.01
CONTRACT NO. 070651

STANLEY RYTER, PE
Project Manager

CONSULTANTS:

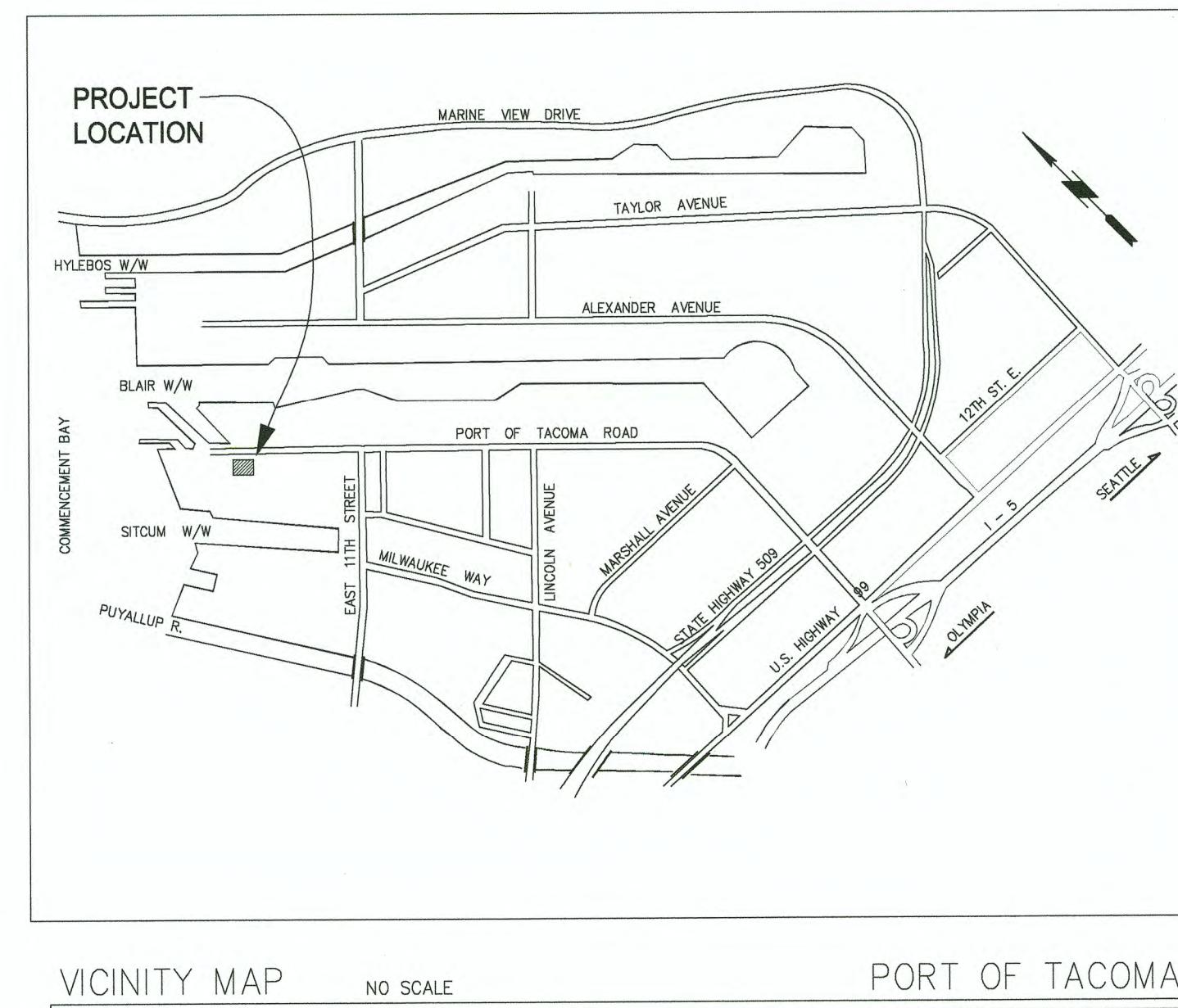


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DRAWING LIST			
SHEET DESIGNATION	SHEET #	SHEET TITLE	REVISION
G1	1	COVER SHEET	0
S0.01	2	GENERAL STRUCTURAL NOTES	0
S0.02	3	INSPECTION NOTES	0
S1.00	4	CRANE RAIL PLAN	0
E1.00	5	ELECTRICAL FLOOR PLAN AND LEGEND	0
E2.00	6	ELECTRICAL NOTES, RISER DIAGRAM AND CALCULATIONS	0

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STRUCTURAL NOTES

- 1.1 ANY DISCREPANCY FOUND AMONG THE DRAWINGS, SPECIFICATIONS, THESE NOTES, AND THE SITE CONDITIONS SHALL BE REPORTED TO THE OWNER'S PROJECT MANAGER, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE CONTRACTOR'S RISK. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION. THE CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION BRACING, FORMWORK AND TEMPORARY CONSTRUCTION SHORING.
- 1.2 EXISTING BUILDING CONDITIONS

1.2.1 STRUCTURAL DESIGN IS BASED ON EXISTING FRAMING CONDITIONS OBSERVED AND FIELD MEASURED AND/OR DESCRIBED IN ORIGINAL CONSTRUCTION DRAWINGS. FIELD OBSERVATIONS DURING DESIGN ARE LIMITED TO AREAS OPEN TO VIEW AND ACCESSIBLE.

1.2.2 CONTRACTOR SHALL FIELD VERIFY ALL EXISTING FRAMING CONDITIONS FOR COMPLIANCE WITH THE INFORMATION SHOWN ON THE STRUCTURAL DRAWINGS PRIOR TO CONSTRUCTION. AS-BUILT DEVIATIONS FROM THE INFORMATION SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO EXECUTION OF WORK IN THE AREAS AFFECTED BY THE DISCREPANCY.
- 1.3 CODES

1.3.1 ALL METHODS, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2015 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED AND ADOPTED BY THE LOCAL BUILDING AUTHORITY.

1.3.2 ALL REFERENCES TO OTHER CODES, STANDARDS AND SPECIFICATIONS, (ACI, ASTM, ETC.), SHALL BE FOR THE EDITION CURRENTLY REFERENCED BY IBC AS AMENDED AND ADOPTED BY THE LOCAL BUILDING AUTHORITY.
- 1.4 DESIGN CRITERIA:
CRANE DESIGN LIFT CAPACITY OF 12.5 METRIC TONS.
- 1.5 STATEMENT OF SPECIAL INSPECTIONS

SEE STATEMENT OF SPECIAL INSPECTION AND TESTING SHEET S0.1.
- 1.6 SHOP DRAWINGS

1.6.1 SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR THE FOLLOWING:

A. STRUCTURAL AND MISCELLANEOUS STEEL INCLUDING WELD INSERTS AND ANCHORS
- 1.7 MISCELLANEOUS

1.7.1 VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD.

METALS

- 5.1 STRUCTURAL STEEL GENERAL REQUIREMENTS

5.1.1 ALL DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO AISC 360-10 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", AND AISC 303-10 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" EXCEPT AS AMENDED BY SECTION 1.1 OF THESE STRUCTURAL NOTES.

5.1.4 STRUCTURAL STEEL ERECTOR REQUIREMENTS:

A. THE CONTRACTOR SHALL HAVE A MINIMUM OF 5 YEARS OF ERECTION EXPERIENCE OF PROJECTS OF SIMILAR SIZE AND COMPLEXITY, AS WELL AS A MINIMUM OF 5 REFERENCE PROJECTS OF SIMILAR SIZE AND COMPLEXITY TO THIS PROJECT. PRIOR TO START OF ERECTION, THE STRUCTURAL STEEL ERECTOR SHALL SUBMIT QUALIFICATIONS AND REFERENCE PROJECTS TO THE ENGINEER FOR REVIEW AND APPROVAL. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SUBMITTALS HAVE BEEN REVIEWED AND APPROVED PRIOR TO THE START OF ERECTION.

B. PRIOR TO THE START OF ERECTION, THE CONTRACTOR SHALL SUBMIT IN WRITING A PROJECT SPECIFIC QUALITY CONTROL/QUALITY ASSURANCE PLAN. AT A MINIMUM THE QC/QA PLAN SHALL COMPLY WITH CHAPTER N OF AISC 360-10 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS," AND INCLUDE THE FOLLOWING:

a. THE QC/QA PLAN SHALL COMPLY WITH CHAPTER 17 OF THE IBC AND THE STATEMENT OF SPECIAL INSPECTION AND TESTING CONTAINED WITHIN THESE DRAWINGS.

b. THE QC/QA PLAN SHALL INDICATE THE ERECTOR'S PROCESSES FOR IDENTIFYING NON-COMPLIANCE WITH CONTRACT REQUIREMENTS, AS WELL AS TRACKING AND COMPLETING NECESSARY REPAIRS.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SITE INSPECTIONS BY THE PROJECT SPECIAL INSPECTOR EMPLOYED BY THE OWNER. ANY WORK PERFORMED WITHOUT THE REQUIRED SPECIAL INSPECTIONS SHALL BE REJECTED, AND THE COST OF RE-FABRICATION OR FABRICATION VERIFICATION BY THE SPECIAL INSPECTOR SHALL BE BORNE BY THE CONTRACTOR .

D. ANY WORK PERFORMED BY THE CONTRACTOR PRIOR TO REVIEW AND APPROVAL OF THE QC/QA PLAN MAY BE SUBJECT TO REJECTION AT THE DISCRETION OF THE ENGINEER.

- 5.2 STRUCTURAL STEEL

5.2.1 STEEL WT SHAPES SHALL BE ASTM A992 Fy=50 KSI. OTHER SHAPES AND PLATES SHALL BE ASTM A36 Fy=36 KSI.
- 5.3 WELDING

5.3.1 ALL WELDING SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE," AWS D1.1, AWS D1.4 AND AWS D1.8 AS APPROPRIATE.

5.3.2 ALL WELDING SHALL BE BY CERTIFIED WELDERS; USE 70 KSI LOW HYDROGEN FILLER METAL, AND SHALL BE PROTECTED PER AWS D1.1 UNTIL USE. FOR ALL FULL PENETRATION WELDS, FILLER METAL SHALL BE NOTCH TOUGH TO MEET CHARPY V-NOTCH OF 20 FOOT-POUND AT -20°F.
- 5.4 WELDING PROCEDURE SPECIFICATION (WPS)

5.4.1 FOR ALL WELDING OF COMPONENTS WHICH ARE PART OF THE CRANE CORBEL REINFORCEMENT, CONTRACTOR SHALL SUBMIT A WELDING PROCEDURE SPECIFICATION (WPS) TO ENGINEER FOR APPROVAL. PRIOR TO WELDING, EACH WPS SHALL INCLUDE ALL NECESSARY INFORMATION REQUIRED BY AWS D1.1, AWS D1.4 AND AWS D1.8 AND AS FOLLOWS:

A. APPLICABLE BASE METAL TYPES AND THICKNESSES.

B. SKETCH OF JOINT INDICATING APPLICABLE DIMENSIONS. INDIVIDUAL PASSES SHALL BE IDENTIFIED AND NUMBERED TO IDENTIFY THE SEQUENCE. THE SKETCH SHALL IDENTIFY THE MAXIMUM THICKNESS AND BEAD WIDTH. IN NO CASE SHALL THE LAYER THICKNESS EXCEED 1/4" NOR THE BEAD WIDTH EXCEED 5/8."

C. PREHEAT REQUIREMENTS.

D. ELECTRICAL CHARACTERISTICS (I.E., CURRENT, VOLTAGE, TRAVEL SPEED, ETC.).

E. ELECTRODE REQUIREMENTS SHALL MEET THE REQUIREMENTS OF AWS A5.1, AWS A5.5, AWS A5.17, AWS A5.23, AWS A5.18, AWS A5.20, AWS A5.28, AND AWS A5.29, AS APPLICABLE FOR WELDING METHOD USED.

KEY TO ABBREVIATIONS

AB	ANCHOR BOLT
ADDL	ADDITIONAL
ADJ	ADJACENT
ASD	ALLOWABLE STRESS DESIGN
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BS	BOTH SIDES
BTWN	BETWEEN
COL	COLUMN
CONC	CONCRETE
CONN	CONNECT, CONNECTION
CONT	CONTINUOUS
CTR	CENTER
ELEV	ELEVATION
ENGR	ENGINEER
EQ	EQUAL/EQUIVALENT
EQUIV	EQUIVALENT
ES	EACH SIDE
(E), EX, EXIST	EXISTING
EXT	EXTERIOR
FF	FINISH FLOOR
FS	FAR SIDE
GC	GENERAL CONTRACTOR
HT	HEIGHT
I.F.	INSIDE FACE
INT	INTERIOR
K, KIPS	KIPS=1000 LBS
L	ANGLE
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION
MFR	MANUFACTURER
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
O.F.	OUTSIDE FACE
PAF	POWER ACTUATED FASTENERS, PDF
PEMB	PRE-ENGINEERED METAL BUILDING
PERP	PERPENDICULAR
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PE, PRE-ENGR	PRE-ENGINEERED
PROV	PROVIDE
REF	REFERENCE
REINF	REINFORCE, REINFORCEMENT
REQ'D	REQUIRED
RF	ROOF
SIM	SIMILAR
SPCG	SPACING
STIFF	STIFFENER
THK	THICK
T.O.	TOP OF
TOS	TOP OF STEEL
TRANS, TRANSV	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
W/	WITH
W/O	WITHOUT
WF	WIDE FLANGE

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S0.01

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CONT/CONS: 070651
M. ID: 101116.01
PHASE: BID SET

BRIDGE CRANE IN THE STRAD HOUSE

GENERAL STRUCTURAL NOTES

TOWNSHIP: 21N
RANGE: 3E
DAT-HRZ: NAD 83-07
PARCEL: 27

SECTION: 34
NOS TIDAL (MLLW = 0.0')
DRAWING SCALE: AS NOTED

APPROVED:

JFS

7/18/17

CHECKED BY

DATE

JFS

7/18/17

DATE

DATE

DRAMSAY Jul 18, 2017

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11. STATEMENT OF SPECIAL INSPECTIONS			
IBC	SI	SO	TITLE
1705.1.1	✓	✓	SPECIAL CASES (SEE FOLLOWING NOTES FOR EXTENT)
1705.2	✓	✓	STEEL CONSTRUCTION (SEE TABLES 15A)

SI =SPECIAL INSPECTION
SO =STRUCTURAL OBSERVATION
✓ =ITEM IS REQUIRED
N/R =ITEM IS NOT REQUIRED

SPECIAL INSPECTIONS INDICATED ARE FOR STRUCTURAL ELEMENTS ONLY. SEE ARCH, MECH AND ELEC DRAWINGS FOR ADDITIONAL SPECIAL INSPECTIONS.

- 11.1 INSPECTION/TESTING REQUIREMENTS:

SEE DRAWINGS, SPECIFICATIONS, AND IBC SECTIONS 110, AND CHAPTER 17.
- 11.2 INSPECTIONS BY THE BUILDING OFFICIAL (IBC SECTION 110):

11.2.1 FRAMING INSPECTIONS SHALL BE MADE AFTER ALL SHEATHING, FRAMING, BLOCKING AND BRACING ARE COMPLETE AND ALL PIPES, DUCTS, ELECTRICAL, PLUMBING, ETC., ARE INSTALLED AND APPROVED PRIOR TO COVER.

11.2.2 IN ADDITION TO THE INSPECTIONS SPECIFIED ABOVE, THE BUILDING OFFICIAL IS AUTHORIZED TO MAKE OR REQUIRE OTHER INSPECTIONS OF ANY CONSTRUCTION WORK TO ASCERTAIN COMPLIANCE WITH THE PROVISIONS OF THE IBC OR OTHER LAWS ENFORCED BY THE BUILDING OFFICIAL.
- 11.3 STRUCTURAL TESTS AND SPECIAL INSPECTIONS (IBC CHAPTER 17):

11.3.1 SEE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

11.3.2 STRUCTURAL TESTS AND SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17 OF THE IBC AS WELL AS ANY ADDITIONAL REQUIREMENTS OF THE BUILDING OFFICIAL. OMISSION FROM THE LIST BELOW OF TESTING AND INSPECTION REQUIREMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING TESTING AND INSPECTION REQUIRED BY THE SPECIFICATIONS, THE IBC AND THE BUILDING OFFICIAL.

11.3.3 TESTING AND SPECIAL INSPECTIONS SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17 OF THE IBC FOR THE ITEMS LISTED IN THIS SECTION.
- 11.4 STRUCTURAL OBSERVATION

11.4.1 STRUCTURAL OBSERVATION SHALL BE PERFORMED DURING CONSTRUCTION IN A MANNER AS REQUIRED TO BECOME GENERALLY FAMILIAR WITH THE IN PLACE CONSTRUCTION.

11.4.2 STRUCTURAL OBSERVATION EXTENT SHALL BE AS INDICATED ABOVE. TIMING AND DURATION OF OBSERVATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR DURING CONSTRUCTION.

11.4.3 CONSTRUCTION OBSERVATION REPORTS AND FINDINGS SHALL NOT BE VIEWED AS A WARRANTY OR GUARANTEE BY THE STRUCTURAL ENGINEER.
- 11.5 SPECIAL INSPECTOR: SHALL BE CURRENTLY WABO CERTIFIED AND UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER.

11.5.1 THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.

11.5.2 THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, ENGINEER OF RECORD, ARCHITECT OF RECORD, AND OTHER DESIGNATED PERSONS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE GENERAL CONTRACTOR FOR CORRECTION, THEN, IF NOT IN CONFORMANCE, TO THE PROPER DESIGN AUTHORITY AND BUILDING OFFICIAL.

11.5.3 THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE IBC. THE REPORT SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.

15A. REQUIRED SPECIAL INSPECTIONS AND TESTS OF STRUCTURAL STEEL - CONSTRUCTION INSPECTION OF WELDING			
SPECIAL INSPECTION OR TEST TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD
AISC 360 TABLE N5.4-1			
1. PRIOR TO WELDING, VERIFY AND INSPECT THE FOLLOWING:			
A. WELDING PROCEDURE SPECIFICATIONS (WPS)	✓	N/R	-
B. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES	✓	N/R	AISC 360 A3.5
C. MATERIAL IDENTIFICATION OF STRUCTURAL STEEL MEMBERS	N/R	✓	AISC 360 A3.1
D. WELDER IDENTIFICATION SYSTEM	N/R	✓	-
E. FIT-UP OF GROOVE WELDS, INCLUDING JOINT GEOMETRY	N/R	✓	-
1) JOINT PREPARATION			
2) DIMENSIONS: ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL			
3) CLEANLINESS: CONDITION OF STEEL SURFACES			
4) TACKING: TACK WELD QUALITY AND LOCATION			
5) BACKING TYPE AND FIT (IF APPLICABLE)			
F. CONFIGURATION AND FINISH OF ACCESS HOLES	N/R	✓	-
G. FIT-UP OF FILLET WELDS	N/R	✓	-
1) DIMENSIONS: ALIGNMENT, GAPS AT ROOT			
2) CLEANLINESS: CONDITION OF STEEL SURFACES			
3) TACKING: TACK WELD QUALITY AND LOCATION			
H. CHECK WELDING EQUIPMENT	N/R	✓	-
AISC 360 TABLE N5.4-2			
2. DURING WELDING, VERIFY AND INSPECT THE FOLLOWING:			
A. USE OF QUALIFIED WELDERS	N/R	✓	-
B. CONTROL AND HANDLING OF WELDING CONSUMABLES	N/R	✓	-
1) PACKAGING			
2) EXPOSURE CONTROL			
C. NO WELDING OVER CRACKED TACK WELDS	N/R	✓	-
D. ENVIRONMENTAL CONDITIONS	N/R	✓	-
1) WIND SPEED WITHIN LIMITS			
2) PRECIPITATION AND TEMPERATURE			
E. WELDING PROCEDURE SPECIFICATIONS FOLLOWED	N/R	✓	-
1) SETTINGS ON WELDING EQUIPMENT			
2) TRAVEL SPEED			
3) SELECTED WELDED MATERIALS			
4) SHIELDING GAS TYPE AND FLOW RATE			
5) PREHEAT APPLIED			
6) INTERPASS TEMPERATURE MAINTAINED			
7) PROPER POSITION			
F. WELDING TECHNIQUES	N/R	✓	-
1) INTERPASS AND FINAL CLEANING			
2) EACH PASS WITHIN PROFILE LIMITATIONS			
3) EACH PASS MEETS QUALITY REQUIREMENTS			

AISC 360 TABLE N5.4-3			
3. AFTER WELDING, VERIFY AND INSPECT THE FOLLOWING:			
A. WELDS CLEANED	N/R	✓	-
B. SIZE, LENGTH, AND LOCATION OF WELDS	✓	N/R	-
C. WELDS MEET VISUAL ACCEPTANCE CRITERIA	✓	N/R	-
1) CRACK PROHIBITION			
2) WELD TO BASE METAL FUSION			
3) CRATER CROSS SECTION			
4) WELD PROFILES			
5) WELD SIZE			
6) UNDERCUT			
7) POROSITY			
D. ARC STRIKES	✓	N/R	-
E. k-AREA	✓	N/R	-
F. BACKING REMOVED AND WELD TABS REMOVED, IF REQUIRED	✓	N/R	-
G. REPAIR ACTIVITIES	✓	N/R	-
H. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	✓	N/R	-

- 15.1 STRUCTURAL STEEL CONSTRUCTION:

SPECIAL INSPECTION AND NONDESTRUCTIVE TESTING OF STRUCTURAL STEEL ELEMENTS SHALL BE IN ACCORDANCE WITH THE QUALITY CONTROL AND QUALITY ASSURANCE REQUIREMENTS OF AISC 360, AS NOTED IN TABLE 15A AND AWS D1.1, INCLUDING:

15.1.1 INSPECTION OF ERECTED STEEL SYSTEM.

15.1.2 REVIEW OF MATERIAL TEST REPORTS AND CERTIFICATIONS FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.

15.1.3 OBSERVATION OF WELDING OPERATIONS AND VISUAL INSPECTION OF IN-PROCESS AND COMPLETED WELDS SHALL BE AS FOLLOWS:

A. VERIFY THAT WELD FILLER MATERIAL AND MANUFACTURER'S CERTIFICATE OF COMPLIANCE CONFORM TO AWS SPECIFICATION SPECIFIED. VERIFY WELDERS ARE CERTIFIED BY WABO, THAT PROPER ELECTRODES IN OVEN DRY CONDITIONS ARE USED, AND THAT PROPER METHODS AND PREPARATIONS ARE USED.

B. PERIODIC SPECIAL INSPECTION OF WELDING SHALL BE PERFORMED FOR SINGLE PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16" AND FLOOR AND DECK WELDS.

C. CONTINUOUS SPECIAL INSPECTION OF WELDING SHALL BE PERFORMED ON COMPLETE AND PARTIAL PENETRATION GROOVE WELDS AND FILLET WELDS GREATER THAN 5/16".

D. ALL WELDS SHALL BE CHECKED VISUALLY.

E. ALL SHOP AND FIELD WELDING SHALL BE SUBJECT TO INSPECTION BY A WABO CERTIFIED WELDING INSPECTOR EMPLOYED BY THE OWNER. THE INSPECTOR SHALL UTILIZE RADIOGRAPHIC, ULTRASONIC, OR MAGNETIC PARTICLE TESTING AND ANY OTHER AID TO VISUAL INSPECTION THAT MAY BE DEEMED NECESSARY TO ASSURE THE ADEQUACY OF WELDING. THE OWNER SHALL CARRY OUT TESTING AND INTERPRETATION AT ANY STAGE AFTER WELDING.

F. 10% OF ALL FILLET WELDS SHALL BE CHECKED BY MAGNETIC PARTICLE TESTING.

G. 100% OF ALL COMPLETE PENETRATION WELDS SHALL BE CHECKED BY ULTRASONIC TESTING.

H. ALL WELDS FOUND DEFECTIVE AND REPAIRED SHALL BE REINSPECTED BY THE SAME METHOD ORIGINALLY USED. THE COST OF REPAIR AND REINSPECTION SHALL BE BORNE BY THE CONTRACTOR.

I. STANDARDS FOR ACCEPTANCE SHALL BE AS GIVEN IN AWS D1.1.

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S0.02
SH 3 OF 6

CONTRACT/CONS: 070651
M. ID: 101116.01
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BRIDGE CRANE IN THE STRAD HOUSE

INSPECTION NOTES

APPROVED: JFS
Don Lindquist
DIRECTOR ENR. DATE: 7/18/17
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