

Mayor
NELSON P.
CRABB

July 18, 2014

City
Administrator
SCOTT
FLORY

HONORABLE MAYOR & CITY COUNCIL MEMBERS:

COUNCIL
MEMBERS

The next meeting of the Clear Lake City Council is scheduled for Monday, **July 21, 2014**, at 6:30 p.m., in the Conference Room, at the Clear Lake Fire Station. Please refer to the enclosed agenda for the items discussed below.

DANA
BRANT
Ward 1

ITEM #6A. **Bridge Inspection Report**. The City has utilized Calhoun-Burns Associates over the last few years to perform "routine" biennial bridge inspections to meet the requirements of the FHWA and Iowa DOT. Routine inspections consist of observations and measurements to determine the physical and functional condition of a bridge in order to identify any changes from the previously recorded conditions and to ensure the structure continues to satisfy present service requirements. Inspections are generally conducted from the deck, ground, and/or water level. Underwater portions of the substructure inspections typically occur when allowed for by low-flow levels.

TONY J.
NELSON
Ward 2

JIM
BOEHNKE
Ward 3

MIKE
CALLANAN
At Large

GARY
HUGI
At Large

Per the National Bridge Inspection Standards, inspections were conducted on the City's four (4) bridges, as well as two (2) culvert structures, which are not required but were requested by the City. The Report also includes maintenance and rehabilitation recommendations. Routine bridge inspections must be conducted at intervals of not less than 24 months. Inspection reports, once completed, are submitted to the Iowa DOT via the Structure Inventory & Management System.

ITEM #6C. **Water Treatment Plant High Service Pumps**. In June 2013, the Council authorized a consultant services agreement with Veenstra & Kimm to assess the existing conditions of the Water Treatment Plant's high service pumps. This was in response to some operational issues with one of the high service pumps. In September 2013, the Council approved a consultant service agreement with Veenstra & Kimm for design and bidding services related to replacement of the high service pumps, valves, humidity control, electrical and instrumentation improvements, as well as other



miscellaneous modifications to the treatment plant. In April 2014, Veenstra & Kimm reviewed preliminary plans and specifications with the Council, as well as the tentative Project schedule.

The Water Treatment Plant has four (4) high service pumps, however, one of those has not been operational for many years and is not critical to the system's operation. The three (3) remaining pumps (#1, #2, & #3) were installed in 1972, 1989, and 1948, respectively. Although each has been reconditioned, the most effort in that regard was more than 23 years ago. Generally, the reconditioning has a life expectancy of 25 years or less. The three (3) pumps critical to the water plant's operation are in "fair" to "poor" condition.

The current engineer's estimate of the probable cost of construction is \$481,000, with approximately an additional \$70,000 for consultant services. The City budgeted \$350,000 in FY 15 for the project. It should be noted that \$200,000 was previously budgeted for in FY 14. So, between the two fiscal years, the City allocated \$550,000 for the Project.

The Project schedule calls for the Council to set the date for the hearing on the plans & specifications and bid letting at its meeting on July 21st. The bid letting would be conducted on August 13th and hearing/award of contract would occur on August 18th. Construction would begin no later than December 1st and be completed not later than April 30, 2015.

Smart Quote: "There's a great power in words, if you don't hitch too many of them together." -- Josh Billings, American humorist

Scott Flory
City Administrator

TENTATIVE AGENDA
CLEAR LAKE CITY COUNCIL
CITY HALL – 15 N. 6TH STREET
MONDAY, JULY 21, 2014
CLEAR LAKE FIRE STATION
6:30 P.M.

1. Call To Order by Mayor Nelson P. Crabb.
2. Approval of Agenda.
3. Consent Agenda:
 - A. Minutes – July 7, 2014
 - B. Approval of the bills & claims.
 - C. Licenses & Permits:
 - Liquor License: Outdoor Service Area Request, Lake Front Tap, August 1st & 2nd.
 - Street Closing Request: CLASS Car Club, August 1st; Clear Lake Arts Sail, July 26th.
4. Citizen's opportunity to address the Council on items not on the agenda:
 - In conformance with the City Council's Rules of Procedure, no action can occur on items presented during the Citizens Forum.
 - Please walk to the lectern, state your name (spell last name), address, and subject of your discussion.
 - Speakers are limited to a maximum of five (5) minutes per person.
5. Unfinished Business:
6. New Business:
 - A. Biennial Bridge Inspection Program Report:
 - Introduction by Scott Flory, City Administrator.
 - Review of inspection report, Michael Vander Wert, P.E., Calhoun-Burns Associates.
 - Discussion and questions by City Council.
 - B. Northwest Water Tower Improvement Project:
 - Project update and review of Pay Estimate #5, Jason Petersburg, P.E., Veenstra & Kimm.
 - **Motion** to approve Pay Estimate #5 by City Council.
 - Discussion and consideration of **Motion** by City Council.

C. Water Treatment Plant High Service Pumps Replacement Project:

- Introduction by Scott Flory, City Administrator.
- Review of proposed plans & specifications, Jason Petersburg, P.E., Veenstra & Kimm.
- **Motion** to approve **Resolution #14-47**, “A Resolution fixing the date for a public hearing on plans, specifications, form of contract, and estimate of cost, and setting the date for a bid letting on the proposed ‘Water Treatment Plant High Service Pump Improvement Project’ and for taking bids therefor.”
- Discussion and consideration of **Motion** by City Council.

D. Clear Lake Veterans Memorial Project:

- Update from Parks & Recreation Advisory Board, Randy Miller Director.
- Discussion and questions by City Council.

E. Purchase of a 2013 Polaris Ranger Crew 500 for the Fire Department:

- Introduction by Scott Flory, City Administrator.
- Review of request, Doug Meyers, Fire Chief.
- **Motion** to approve request by City Council.
- Discussion and consideration of **Motion** by City Council.

7. Chief of Police’s Report:

8. Mayor’s Report:

- Re-appointment of Chyrl Bergvig; Darron Jones; and Brenda Anderson to the Parks & Recreation Advisory Board for term ending June 30, 2017.
- Appointment of new Parks & Recreation Advisory Board Member for term ending June 30, 2017.

9. Public Works Director’s Report:

- Update regarding 2014 Street Resurfacing Project.
- Update regarding North Shore Drive Street Reconstruction Project.

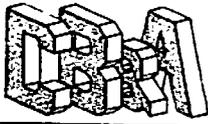
10. City Administrator’s Report:

11. City Attorney’s Report:

12. Other Business:

13. Adjournment.

NEXT REGULAR MEETING – AUGUST 4, 2014

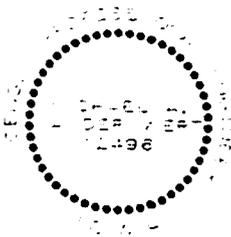


CALHOUN-BURNS AND ASSOCIATES, INC.
BRIDGES ♦ STRUCTURES ♦ TRANSPORTATION

CITY OF CLEAR LAKE BRIDGE INSPECTION AND RATING – 2014

The following bridges were inspected and the completed reports submitted:

<u>BRIDGE NO.</u>	<u>Location</u>
F-9-B-26	N. 40 th Street Drive over Willow Creek
F-9-C-49	E-W 7 th Avenue North over Willow Creek
E-15-CD	N. Shore Drive over Stream
504270	N. 20 th Street over Willow Creek
-----	4 th Avenue S. over Clear Creek
-----	S. 40 th Street over Clear Creek



I hereby certify that this plan, specifications, or report was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.



Signature

July 11, 2014
Date

My Registration expires December 31, 2015



CALHOUN-BURNS AND ASSOCIATES, INC.
WEST DES MOINES, IOWA
CONSULTING ENGINEERS

**CITY OF CLEAR LAKE
2014 BRIDGE RATING SUMMARY**

Bridge No. FHWA No. Street Name	T-R-Sec	Len. Wid.	Bridge Type	ADT	Year Built	Condition Ratings			Current Postings			SR	Est Rem Life	Yr Fq	Remarks
						Deck	Sup	Sub	Cul	OL	N				
4TH AVE. S. 4TH AVE. S.	96-21-17 <20	12 78	SINGLE R.C.B. CULVERT	5300	1900	N	N	N	5				10	14	REPAIR VOIDS AT JOINT LOCATIONS.
S. 40TH STREET S. 40TH ST.	96-21-17 <20	12 22.8	CONCRETE SLAB	300	1900	4	4	4	N				5	14	MONITOR CONCRETE DETERIORATION. CONSIDER REPLACEMENT.
F-9-B-26 106320 N. 40TH ST.	96-21-09	80 44	CONTINUOUS CONCRETE SLAB	890	1970	6	6	7	N			96	20	24	
F-9-C-49 106330 E-W 7TH AVE N.	96-21-09	46 15.4	CONCRETE ARCH	30	1900	5	5	5	N	✓		62	10	14	MONITOR CONCRETE CRACKING.
E-15-CD 362655 N. SHORE DR.	96-22-15	55 29.8	CONTINUOUS CONCRETE SLAB	1620	1972	7	7	6	N			87	25	14	
17-504270 504270 N. 20TH ST.	96-21-07	172 29.8	CONTINUOUS CONCRETE SLAB	1380	1994	6	6	8	N			93	25	24	REPAIR FILL SETTLEMENT AT SIDEWALK ENDS.

Jonquill Ave

N 56th St

Jonquill Ave

7th Ave N

263rd St

7th Ave N



Willow Creek



IOWA STRUCTURE INVENTORY AND APPRAISAL SHEET

IOWA DEPARTMENT OF TRANSPORTATION

Note: S.E. COR. SEC. 9-96-21

IDENTIFICATION COUNTY ENGR. Clear Lake
 * COUNTY/CITY
 COUNTRY ID F-9-C-49
 * STRUCTURE NO 106330
 * INVENTORY ROUTE 15100000
 2 STATE AREA NO 0
 6 FEATURES CROSSED
 7 FACILITY CARRIED
 8 LOCATION
 9 MILE POINT 0.000
 11 BORDER BRIDGE CODE
 98 BORDER BRIDGE NO
 99 BORDER BRIDGE NO

STRUCTURE TYPE AND MATERIAL
 43 MAIN STRUCTURE TYPE 111
 44 APPROACH TYPE NEAR 000 FAR 000
 45 NO OF SPANS - MAIN 1
 46 NO OF APPR SPANS NEAR 00 FAR 00
 107 DECK TYPE N
 108 WEARING SURFACE/PROTECTIVE SYSTEM N N N

AGE AND SERVICE
 27 YEAR BUILT 1900
 106 YEAR RECONST 0000
 42 TYPE OF SERVICE 15
 28 LANES: ON 1 UNDER 0
 29 EST AVE DAILY TRAFFIC 30
 *30 YEAR ADT 2009
 109 TRUCK ADT 00
 19 BYPASS, DETOUR LENGTH 1.000
 % (PRIMARY ONLY)

GEOMETRIC DATA
 48 LONGEST SPAN 45
 112 NBIS BR Y
 49 STRUCTURE LENGTH 46
 50 CURB OR SIDEWALK RT 0.0 LT 0.0
 51 BR RDWY WIDTH C-C 15.4
 52 DECK WIDTH O-O 19.0
 32 APPR RDWY WIDTH (W/ SHOULDERS) 20
 33 BRIDGE MEDIAN NONE
 34 SKEW 0
 35 STRUCTURE FLARED NO
 10 MIN VERT CLEAR 3M LANE 99 99
 47 TOTAL HORIZ CLEAR RT 15-60 LT 15 06 LT
 53 VERT CLEAR OVER BR RDWY RT 99 99 LT
 54 VERT UNDERCLEAR RT N 00
 55 LAT UNDERCLEAR RT N 00
 56 LAT UNDERCLEAR LT

NAVIGATION DATA
 38 NAVIGATION CONTROL 0
 111 PIER PROTECTION
 39 NAV VERT CLEARANCE 00
 116 VERT-LIFT BR NAV MIN VERT CLEAR 00.0
 40 NAVIGATION HORIZ CLEAR 00

INSPECTIONS
 90 INSPECTION DATE 4 / 2014
 91 FREQUENCY 24 MO
 92 CRITICAL FEATURE INSPECTION
 93 CFI DATE
 A FRACTURE CRIT DETAIL N MO A MO
 B UNDERWATER INSP N MO B MO
 C OTHER SPECIAL INS N MO C MO
 Inspected By: JORDAN P. DENMAN
 Consulting Firm Name: CALHOUN-BURNS & ASSOCIATES, INC.

CONDITION
 58 DECK CRACKS, ROUGH, WORN, BROKEN RAIL
 59 SUPER SPALLS WITH EXPOSED REBAR, CRACKS
 60 SUB BROKEN WING, CRACKS, EROSION
 61 CHAN & PROT SCOUR
 62 CULV
 RATING (9-0) 5

LOAD RATING AND POSTING
 31 DESIGN LOAD 0
 64 OPERATING RATING 37.6
 66 INVENTORY RATING 26.7
 63 METHOD USED - OPERATING RATING 0
 65 METHOD USED - INVENTORY RATING 0
 70 BRIDGE POSTING 5
 41 STRUCTURE OPEN, POSTED OR CLOSED R
 POSTED
 CALC OPER 428
 CALC INV 420
 530
 640
 ONE-LANE

APPRAISAL
 67 STRUC EVAL LEGAL
 68 DECK GEO ONE-LANE
 69 UNDERCLEAR, VERT & HORI
 71 WATER ADD
 72 APP RDWY ALIG ON CREST
 36 TRAFFIC SAFETY FEATURES 0000
 113 SCOUR CRIT BR 8

PROPOSED IMPROVEMENTS
 75 TYPE OF WORK 311
 76 LENGTH OF STRUCT IMP 70
 94 BRIDGE IMP. COST (1000s) 252
 95 RDWY IMPROVE COST (1000s) 25
 96 TOTAL PROJ. COST (1000s) 378
 97 YEAR IMPROVE ESTIMATE MADE 2010-2014
 CLASSIFICATION
 101 PARALLEL HIGHWAY N
 103 TEMPORARY STRUCTURE
 *26 FUNC. CL 19 - URB - LOCAL
 21 MAINTAIN 04
 20 TOLL 3
 22 OWNER 04

NO LOAD POSTING REQUIRED, KEEP ONE LANE.
 MONITOR CONCRETE CRACKING AND DETRIORATION

Pictures

NBI Number: 106330
Facility Carried: E-W 7TH AVE N

Bridge ID: F-9-C-49
Feature(s) Intersected: WILLOW CREEK



Photo Number: 1

Photo Taken: 04/11/2014

ROAD VIEW LOOKING EAST



Photo Number: 2

Photo Taken: 04/11/2014

SIDE VIEW LOOKING SOUTH

Pictures

NBI Number: 106330
Facility Carried: E-W 7TH AVE N

Bridge ID: F-9-C-49
Feature(s) Intersected: WILLOW CREEK



Photo Number: 3

Photo Taken: 04/11/2014

BROKEN NORTHWEST END POST

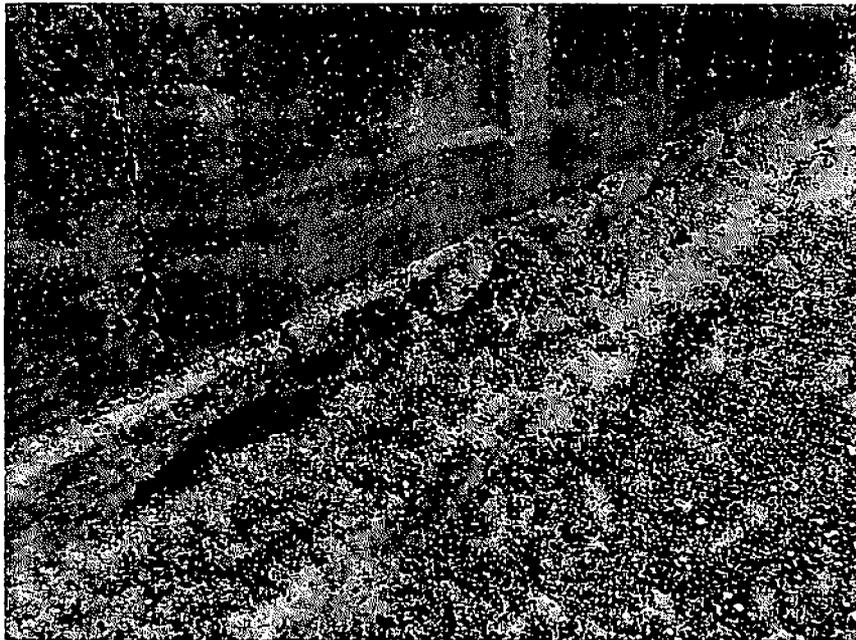


Photo Number: 4

Photo Taken: 04/11/2014

SPALLED, DETERIORATED NORTH CURB, TYPICAL AT SOUTH

Pictures

NBI Number: 106330
Facility Carried: E-W 7TH AVE N

Bridge ID: F-9-C-49
Feature(s) Intersected: WILLOW CREEK



Photo Number: 5

Photo Taken: 04/11/2014

TIPPED SOUTHEAST WING, LOOKING NORTHWEST



Photo Number: 6

Photo Taken: 04/11/2014

SPALLED, AGED NORTH FACE, LOOKING SOUTHEAST

Pictures

NBI Number: 106330
Facility Carried: E-W 7TH AVE N

Bridge ID: F-9-C-49
Feature(s) Intersected: WILLOW CREEK



Photo Number: 7

Photo Taken: 04/11/2014

EXPOSED REINFORCEMENT AT NORTH UNDERSIDE, LOOKING EAST



Photo Number: 8

Photo Taken: 04/11/2014

SPALLS WITH EXPOSED REINFORCEMENT AT CENTER AND SOUTH EDGE, LOOKING EAST

Pictures

NBI Number: 106330
Facility Carried: E-W 7TH AVE N

Bridge ID: F-9-C-49
Feature(s) Intersected: WILLOW CREEK



Photo Number: 9

Photo Taken: 04/11/2014

DETERIORATION AT SOUTHEAST CORNER OF ARCH, LOOKING EAST

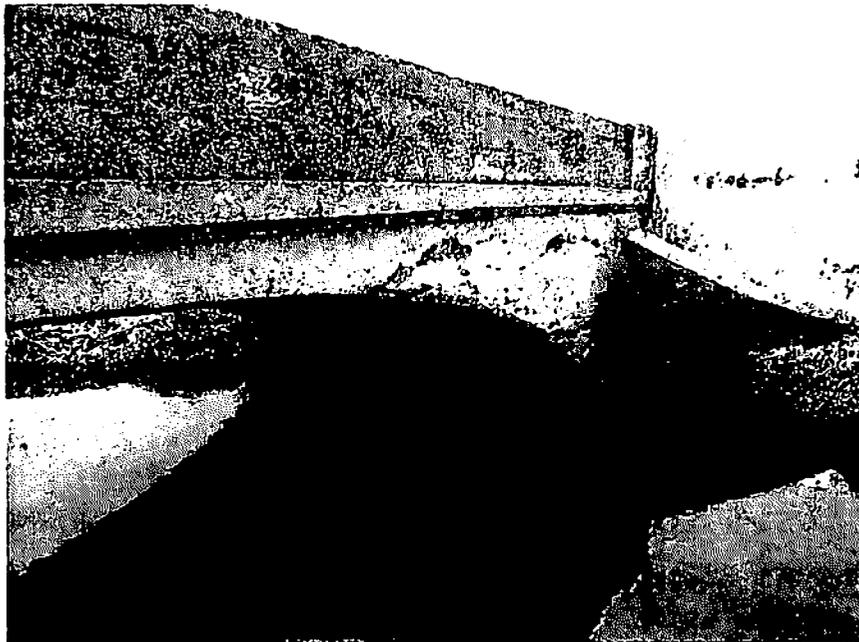


Photo Number: 10

Photo Taken: 04/11/2014

SPALLED, DETERIORATED SOUTH FACE, LOOKING NORTHEAST



Bridge No. <i>F-9-C-49</i>	Bridge Type <i>CONCRETE ARCH</i>	Date <i>4/11/2014</i>
FHWA No. <i>106330</i>	Crossing (over) <i>WILLOW CREEK</i>	Inspector <i>JPD</i>
Street Name <i>E-W 7TH AVE N.</i>	Township <i>LAKE</i>	City <i>CLEAR LAKE</i>
Sect. <i>09 T- 96 N, R- 21 W</i> Suff. Rating <i>62</i>	Est. Remaining Life <i>10</i> Yrs	ADT <i>30</i> Year Built <i>1900</i>
Operating Rating <i>37.6</i> Inventory Rating <i>26.7</i>	Fracture Critical <input type="checkbox"/>	Item 113 Code <i>8</i> Yr. Reconst.

POSTED LOAD LIMITS

Posted Loading	<input checked="" type="checkbox"/> One Lane Narrow	Object Markers
Legibility:	<i>0</i>	<i>0</i>
Visibility:	<i>0</i>	<i>0</i>
Comments:	<i>NONE</i>	

72. APPR. ALIGNMENT COND. RATING REMARKS

1. Alignment	<i>7</i>	<i>ON CREST</i>
2. Approach Slab	<i>-</i>	
3. Relief Joints	<i>-</i>	
4. Approach - Guardrail	<i>NONE</i>	
Pavement	<i>-</i>	
Embankment	<i>7</i>	
INSPECTOR'S CONDITION RATING	<i>7</i>	

58. DECK ITEM CONDITION RATING REMARKS

1. Wearing Surface	<i>5</i>	<i>ROCK (1"), ROUGH, WORN</i>
2. Deck- Structural Condition	<i>5</i>	
3. Curbs	<i>-</i>	
4. Median	<i>-</i>	
5. Sidewalks	<i>-</i>	
6. Parapet	<i>-</i>	
7. Railing	<i>4</i>	<i>AGED, CRACKS, NW. BROKEN</i>
8. Paint	<i>-</i>	
9. Drains	<i>-</i>	
10. Lighting Standards	<i>-</i>	
11. Utilities	<i>-</i>	
12. Joint Leakage	<i>-</i>	
13. Expansion Joints and Devices	<i>-</i>	
14. Record Elevations (if available) @ CL Brgs and Spans	<i>-</i>	

INSPECTOR'S CONDITION RATING ***5***

59. SUPERSTRUCTURE

1. Bearing Devices	<i>-</i>	
2. Stringers	<i>5</i>	<i>SPALLED CONCRETE w/REBAR EXPOSED, AGED</i>
Lateral Support (<i>ARCH</i>)		
3. Girders/Beams	<i>-</i>	
Lateral Support ()		
4. Floor Beams	<i>-</i>	
Lateral Support ()		
5. Trusses - General	<i>-</i>	
Portals	<i>-</i>	
Bracing	<i>-</i>	
6. Paint	<i>-</i>	
7. Machinery (Movable Spans)	<i>-</i>	
8. Rivets or Bolts	<i>-</i>	
9. Welds - Cracks	<i>-</i>	
10. Rust	<i>-</i>	
11. Timber Decay	<i>-</i>	
12. Concrete Cracking	<i>5</i>	<i>ESPECIALLY S. FACE & UNDERSIDE & SE. CORNER</i>
13. Collision Damage	<i>-</i>	
14. Deflection Under Load	<i>7</i>	
15. Alignment of Members	<i>-</i>	
16. Vibration Under Load	<i>7</i>	

INSPECTOR'S CONDITION RATING ***5***

CONDITION RATING

(Use for SIA items 58, 59, 60, 61, 62, 62)

Date: 4/11/2014
 City: CLEAR LAKE
 Bridge No.: F-9-C-19
 Street Name: E-W 7TH AVE N.

- N Not Applicable
- 9 Excellent Condition
- 8 Very Good Condition - No problems noted.
- 7 Good Condition - Some minor problems.
- 6 Satisfactory Condition - Structural Elements show minor deterioration
- 5 Fair Condition - Primary structural elements have minor section loss, spalling, cracking or scour.
- 4 Poor Condition - Advanced section loss, deterioration, spalling or scour. Posting for some truck traffic is warranted.
- 3 Serious Condition - Primary structural elements affected by section loss, deterioration, cracking or scour. Posting for most truck traffic is warranted immediately.
- 2 Critical Condition - Advanced deterioration of concrete or steel and/or critical scour. Structure should be closed to all traffic.
- 1 "Imminent" Failure Condition - Major deterioration of structural elements. Structure is closed but corrective action may allow light service.
- 0 Failed Condition - Out of service and beyond repair.

<u>ITEM</u>	<u>CONDITION RATING</u>	<u>REMARKS</u>
60. SUBSTRUCTURE		
1. Abutments - Caps	-	
Wings	4	<i>CRACKED, BROKEN SE., NE. TIPPING</i>
Backwall	-	
Footing	-	
Piles	-	
Erosion	5	<i>BOTH ABUTMENT SLOPES, FLOWS ALONG E. ABUTMENT</i>
Settlement	-	
2. Piers or Bents - Caps	-	
Columns	-	
Footings	-	
Piles	-	
Scour	-	
Settlement	-	
3. Pile Bents	-	
4. Concrete Cracking	5	<i>AGED</i>
5. Steel Corrosion	-	
6. Timber Decay	-	
7. Debris on Seats	-	
8. Paint	-	
9. Collision Damage	-	

INSPECTOR'S CONDITION RATING 5

61.CHANNEL CHANNEL PROTECTION		
1. Channel Scour	6	<i>UNDER BRIDGE</i>
2. Embankment Erosion	6	<i>E. ABUTMENT</i>
3. Drift	8	
4. Vegetation	7	
5. Channel Change	-	
6. Fender System	-	
7. Spur Dikes and Jetties	-	
8. Riprap	-	
9. Adequacy of Opening	6	
10. Channel Depth (Top of Deck to Streambed)	-	

INSPECTOR'S CONDITION RATING 6

62.CULVERT RETAINING WALLS		
1. Barrel - Concrete	-	
Steel	-	
Timber	-	
2. Headwall	-	
3. Cut-off Wall	-	
4. Adequacy	-	
5. Debris	-	

INSPECTOR'S CONDITION RATING N

4th St SW

4th St SW



18

122

Willow Creek

Willow Creek

IOWA DEPARTMENT OF TRANSPORTATION
IOWA STRUCTURE INVENTORY AND APPRAISAL SHEET

* Sufficiency Rating **097-** 096

* Do Not Change

Note:

IDENTIFICATION COUNTY ENGR.

COUNTY/CITY **Clear Lake**
COUNTY ID **F-9-B-26**
*8 STRUCTURE NO **106320**
*5 INVENTORY ROUTE **151000000**
2 STATE AREA NO **0**
6 FEATURES CROSSED **WILLOW CREEK**
7 FACILITY CARRIED **N 40TH ST**
9 LOCATION **A99000620**
11 MILE POINT **0.000**
98 BORDER BRIDGE CODE
*99 BORDER BRIDGE NO

INSPECTIONS

90 INSPECTION DATE **4 / 2014**
91 FREQUENCY **24** MO
92 CRITICAL FEATURE INSPECTION Y/N
93 CFI DATE
A FRACTURE CRIT DETAIL **N** MO A MO YR
B UNDERWATER INSP **N** MO B MO YR
C OTHER SPECIAL INS **N** MO C MO YR
Inspected By: **JORDAN P. DENMAN**
Consulting Firm Name: **CALHOUN-BURNS & ASSOCIATES, INC.**

STRUCTURE TYPE AND MATERIAL

43 MAIN STRUCTURE TYPE **201**
44 APPROACH TYPE **NEAR 000 FAR 000**
45 NO OF SPANS - MAIN **3**
46 NO OF APPR SPANS **NEAR 00 FAR 00**
107 DECK TYPE **1**
108 WEARING SURFACE/PROTECTIVE SYSTEM **1 0 0**

CONDITION

58 DECK **PCC OVERLAY, SAND IN GUTTERS** RATING (9-0) **5 6**
59 SUPER **CRACKS, SPALLS, LEACHING** **6**
60 SUB **EROSION** **7**
61 CHAN & PROT **TREES, CHANNEL SHIFTING** **7 6**
62 CULV **N**

AGE AND SERVICE

27 YEAR BUILT **1970**
106 YEAR RECONST **0000**
42 TYPE OF SERVICE **15**
28 LANES **ON 2 UNDER 0**
*29 EST AVE DAILY TRAFFIC **890**
*30 YEAR ADT **1997**
*109 TRUCK ADT **00** % (PRIMARY ONLY)
19 BYPASS, DETOUR LENGTH **3.000**

LOAD RATING AND POSTING

31 DESIGN LOAD **5** 64 OPERATING RATING **72.3** 66 INVENTORY RATING **43.3**
63 METHOD USED - OPERATING RATING **1** 65 METHOD USED - INVENTORY RATING **1**
70 BRIDGE POSTING **5** 41 STRUCTURE OPEN, POSTED OR CLOSED **A**
POSTED
CALC OPER **458 582 694**
CALC INV **435 549 657**

GEOMETRIC DATA

48 LONGEST SPAN **31** 112 NBIS BR **Y**
49 STRUCTURE LENGTH **80**
50 CURB OR SIDEWALK **RT 0.0 LT 0.0**
51 BR RDWY WIDTH C-C **44.0**
52 DECK WIDTH O-O **47.2**
32 APPR RDWY WIDTH (W/ SHOULDERS) **34**
33 BRIDGE MEDIAN **NONE**
34 SKEW **0**
35 STRUCTURE FLARED **NO**
10 MIN VERT CLEAR 3m LANE **99 99**
47 TOTAL HORIZ CLEAR **RT 43 00 LT**
53 VERT CLEAR OVER BR RDWY RT **99 99 LT**
54 VERT UNDERCLEAR **RT N 00**
55 LAT UNDERCLEAR **RT N 00**
56 LAT UNDERCLEAR **LT**

APPRAISAL

67 STRUC EVAL **LEGAL** RATING (9-0) **6**
68 DECK GEO **9**
69 UNDERCLEAR, VERT & HORI **N**
71 WATER ADQ **8**
72 APP RDWY ALIG **INTERSECTION** **7**
36 TRAFFIC SAFETY FEATURES **0000** 113 SCOUR CRIT BR **8**

NAVIGATION DATA

38 NAVIGATION CONTROL **0**
111 PIER PROTECTION
39 NAV VERT CLEARANCE **00**
116 VERT-LIFT BR NAV MIN VERT CLEAR **00.0**
40 NAVIGATION HORIZ CLEAR **00**

PROPOSED IMPROVEMENTS

75 TYPE OF WORK **---- 381** 76 LENGTH OF STRUCT IMP **80**
94 BRIDGE IMP COST (1000's) **15** 95 RDWAY IMPROVE COST (1000's) **2**
96 TOTAL PROJ COST (1000's) **25** 97 YEAR IMPROVE ESTIMATE MADE **2010- 2014**

CLASSIFICATION

101 PARALLEL HIGHWAY **N** 103 TEMPORARY STRUCTURE
102 DIRECTION OF TRAFFIC **2** *26 FUNC CL **19 - URB - LOCAL**
20 TOLL **3** 21 MAINTAIN **04** 22 OWNER **04**

NO POSTING REQUIRED. CUT TREES.

Pictures

NBI Number: 106320
Facility Carried: N 40TH ST

Bridge ID: F-9-B-26
Feature(s) Intersected: WILLOW CREEK



Photo Number: 1

Photo Taken: 04/11/2014

ROAD VIEW LOOKING NORTH



Photo Number: 2

Photo Taken: 04/11/2014

SIDE VIEW LOOKING WEST

Pictures

NBI Number: 106320
Facility Carried: N 40TH ST

Bridge ID: F-9-B-26
Feature(s) Intersected: WILLOW CREEK



Photo Number: 3

Photo Taken: 04/11/2014

UNDER VIEW LOOKING NORTH



Photo Number: 4

Photo Taken: 04/11/2014

PCC PATCHES AT SOUTH APPROACH, LOOKING SOUTHWEST

Pictures

NBI Number: 106320
Facility Carried: N 40TH ST

Bridge ID: F-9-B-26
Feature(s) Intersected: WILLOW CREEK

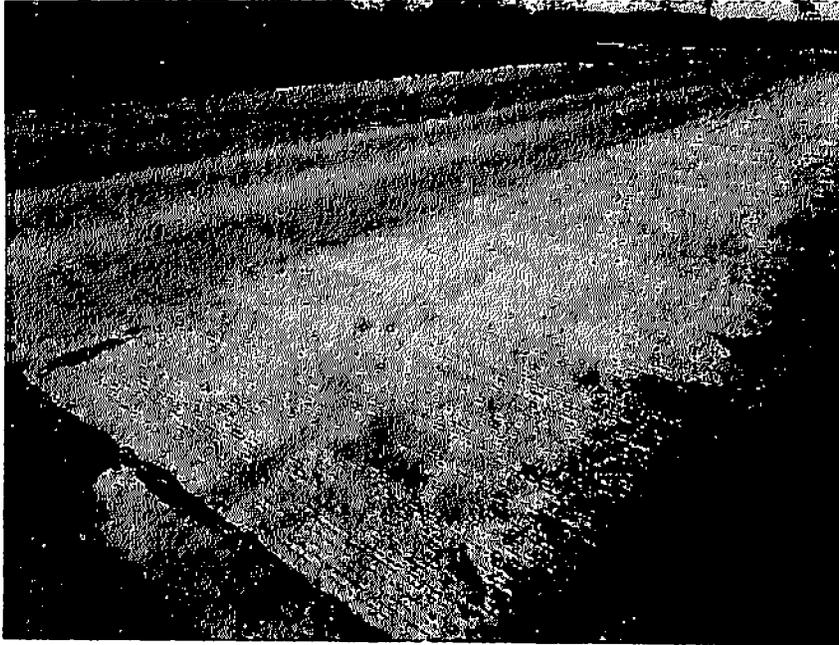


Photo Number: 5

Photo Taken: 04/11/2014

NEW PCC OVERLAY (2012), LOOKING NORTHWEST

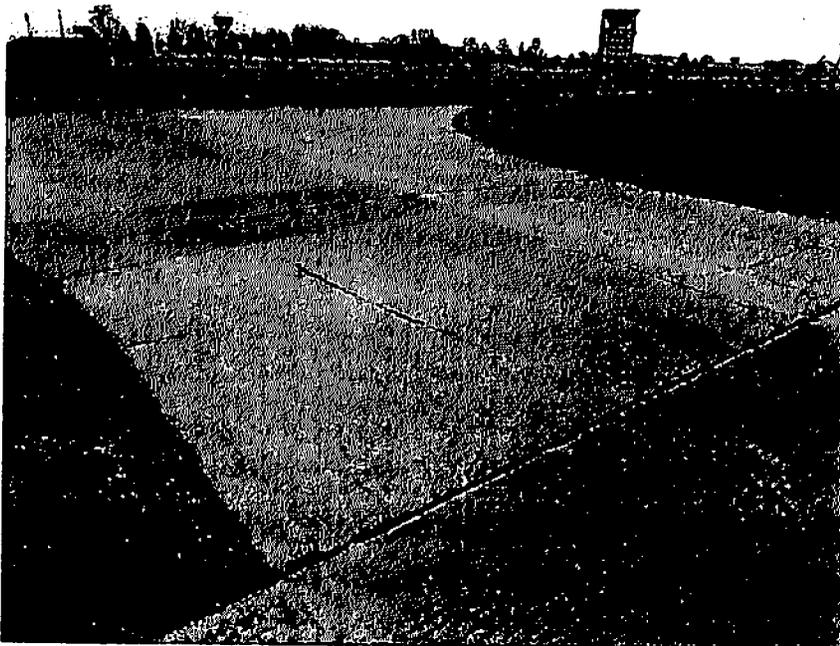


Photo Number: 6

Photo Taken: 04/11/2014

PCC PATCH AT NORTH APPROACH, LOOKING NORTHEAST

Pictures

NBI Number: 106320
Facility Carried: N 40TH ST

Bridge ID: F-9-B-26
Feature(s) Intersected: WILLOW CREEK

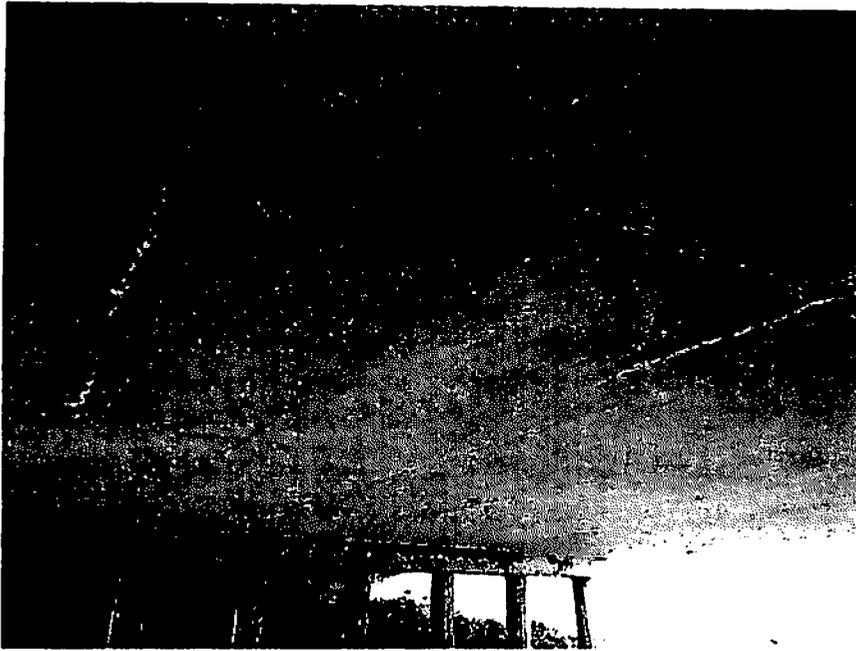


Photo Number: 7

Photo Taken: 04/11/2014

LONGIT. CRACKING AND LEACHING UNDERSIDE



Bridge No. <i>F-9-B-26</i>	Bridge Type <i>CONTINUOUS CONCRETE SLAB</i>	Date <i>4/11/2014</i>
FHWA No. <i>106320</i>	Crossing (over) <i>WILLOW CREEK</i>	Inspector <i>JPD</i>
Street Name <i>N. 40TH ST.</i>	Township <i>LAKE</i>	City <i>CLEAR LAKE</i>
Sect. <i>09 T- 96 N, R- 21 W</i> Suff. Rating <i>96</i>	Est. Remaining Life <i>20</i> Yrs	ADT <i>890</i> Year Built <i>1970</i>
Operating Rating <i>72.3</i> Inventory Rating <i>43.3</i>	Fracture Critical <input type="checkbox"/>	Item 113 Code <i>8</i> Yr. Reconst.

POSTED LOAD LIMITS

Posted	<input type="checkbox"/> One Lane	Object
Loading	<input type="checkbox"/> Narrow	Markers
Legibility:	-	<i>8</i>
Visibility:	-	<i>8</i>
Comments:	<i>NONE</i>	<i>NONE</i> <i>N. SLIGHTLY TIPPED</i>

72. APPR. ALIGNMENT COND. RATING REMARKS

1. Alignment	<i>7</i>	<i>INTRSN. N. w/ STOP CONDITION</i>
2. Approach Slab	<i>7</i>	<i>CRACKS, NARROW, PCC PATCHES</i>
3. Relief Joints	<i>8</i>	
4. Approach - Guardrail	<i>NONE</i>	
Pavement	<i>6</i>	
Embankment	<i>7</i>	
INSPECTOR'S CONDITION RATING	<i>7</i>	

58. DECK ITEM CONDITION RATING REMARKS

- | | | |
|---|----------|--|
| 1. Wearing Surface | <i>8</i> | <i>PCC OVERLAY (2012), SAND IN GUTTERS</i> |
| 2. Deck- Structural Condition | <i>6</i> | <i>CRACKS, LEACHING UNDERSIDE</i> |
| 3. Curbs | <i>5</i> | |
| 4. Median | - | |
| 5. Sidewalks | - | |
| 6. Parapet | - | |
| 7. Railing | <i>7</i> | |
| 8. Paint | - | |
| 9. Drains | <i>6</i> | |
| 10. Lighting Standards | - | |
| 11. Utilities | <i>5</i> | <i>2 CONDUITS E. SIDE, ONE BROKEN NE.</i> |
| 12. Joint Leakage | - | |
| 13. Expansion Joints and Devices | - | |
| 14. Record Elevations (if available)
@ CL Brgs and Spans | - | |

INSPECTOR'S CONDITION RATING ***6***

59. SUPERSTRUCTURE

- | | | |
|---------------------------------|----------|--|
| 1. Bearing Devices | - | |
| 2. Stringers | <i>6</i> | <i>SPALLS w/EXPOSED REINF. NEAR DRAINS</i> |
| Lateral Support (<i>SLAB</i>) | | |
| 3. Girders/Beams | - | |
| Lateral Support () | | |
| 4. Floor Beams | - | |
| Lateral Support () | | |
| 5. Trusses - General | - | |
| Portals | - | |
| Bracing | - | |
| 6. Paint | - | |
| 7. Machinery (Movable Spans) | - | |
| 8. Rivets or Bolts | - | |
| 9. Welds - Cracks | - | |
| 10. Rust | - | |
| 11. Timber Decay | - | |
| 12. Concrete Cracking | <i>6</i> | <i>LONGIT. UNDERSIDE</i> |
| 13. Collision Damage | - | |
| 14. Deflection Under Load | <i>8</i> | |
| 15. Alignment of Members | - | |
| 16. Vibration Under Load | <i>8</i> | |

INSPECTOR'S CONDITION RATING ***6***

CONDITION RATING

(Use for SIA items 58, 59, 60, 61, 62, 62)

Date: 4/11/2014
 City: CLEAR LAKE
 Bridge No. F-9-B-26
 Street Name N. 40TH ST.

- N Not Applicable
- 9 Excellent Condition
- 8 Very Good Condition - No problems noted.
- 7 Good Condition - Some minor problems.
- 6 Satisfactory Condition - Structural Elements show minor deterioration
- 5 Fair Condition - Primary structural elements have minor section loss, spalling, cracking or scour.
- 4 Poor Condition - Advanced section loss, deterioration, spalling or scour. Posting for some truck traffic is warranted.
- 3 Serious Condition - Primary structural elements affected by section loss, deterioration, cracking or scour. Posting for most truck traffic is warranted immediately.
- 2 Critical Condition - Advanced deterioration of concrete or steel and/or critical scour. Structure should be closed to all traffic.
- 1 "Imminent" Failure Condition - Major deterioration of structural elements. Structure is closed but corrective action may allow light service.
- 0 Failed Condition - Out of service and beyond repair.

<u>ITEM</u>	<u>CONDITION RATING</u>	<u>REMARKS</u>
60. SUBSTRUCTURE		
1. Abutments - Caps	-	
Wings	7	
Backwall	7	
Footing	-	
Piles	-	
Erosion	6	SOME N. ABUTMENT SLOPE
Settlement	-	
2. Piers or Bents - Caps	7	
Columns	-	
Footings	-	
Piles	7	MINOR CORROSION
Scour	6	SOME @ BOTH PIERS -- ESPECIALLY N.
Settlement	-	
3. Pile Bents	7	
4. Concrete Cracking	-	
5. Steel Corrosion	7	
6. Timber Decay	-	
7. Debris on Seats	-	
8. Paint	5	
9. Collision Damage	-	

INSPECTOR'S CONDITION RATING 7

61. CHANNEL CHANNEL PROTECTION		
1. Channel Scour	6	
2. Embankment Erosion	6	
3. Drift	7	
4. Vegetation	6	TREES ENCROACHING (CUT)
5. Channel Change	6	SHIFTED N.
6. Fender System	-	
7. Spur Dikes and Jetties	-	
8. Riprap	-	
9. Adequacy of Opening	7	LOW H'
10. Channel Depth (Top of Deck to Streambed)	-	

INSPECTOR'S CONDITION RATING 6

62. CULVERT RETAINING WALLS		
1. Barrel - Concrete	-	
Steel	-	
Timber	-	
2. Headwall	-	
3. Cut-off Wall	-	
4. Adequacy	-	
5. Debris	-	

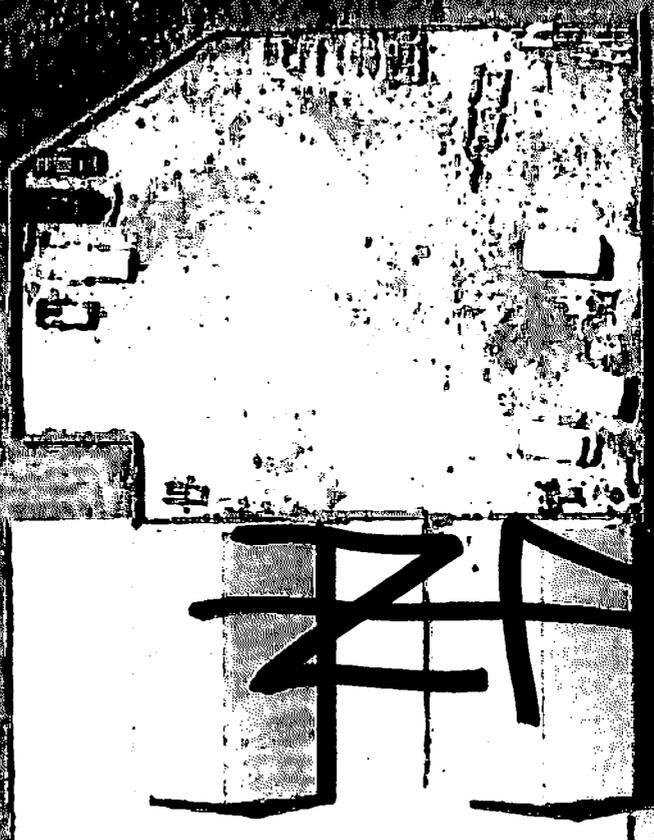
INSPECTOR'S CONDITION RATING N

18500 ROLL

N 20th St

N 20th St

WILLOW CREEK



Plaza Dr

IOWA DEPARTMENT OF TRANSPORTATION
IOWA STRUCTURE INVENTORY AND APPRAISAL SHEET

Date Printed: 7/7/2014

* Sufficiency Rating 094 - 093

* Do Not Change

Note: **PROPOSED ST EXT!**

IDENTIFICATION COUNTY ENGR.

* COUNTY/CITY **Clear Lake**
COUNTY ID **17-504270**
*₃ STRUCTURE NO **504270**
*₅ INVENTORY ROUTE **151000000**
2 STATE AREA NO **0**
6 FEATURES CROSSED **WILLOW CREEK**
7 FACILITY CARRIED **N 20TH ST (PROP)**
9 LOCATION **0**
11 MILE POINT **0.000**
98 BORDER BRIDGE CODE
*₉₉ BORDER BRIDGE NO
SHARE %

INSPECTIONS

90 INSPECTION DATE **4 / 2014**
91 FREQUENCY **24** MO
92 CRITICAL FEATURE INSPECTION Y/N
93 CFI DATE
A FRACTURE CRIT DETAIL **N** MO A MO YR
B UNDERWATER INSP **N** MO B MO YR
C OTHER SPECIAL INS **N** MO C MO YR
Inspected By: **JORDAN P. DENMAN**
Consulting Firm Name: **CALHOUN-BURNS & ASSOCIATES, INC.**

STRUCTURE TYPE AND MATERIAL

43 MAIN STRUCTURE TYPE **201**
44 APPROACH TYPE NEAR **000** FAR **000**
45 NO OF SPANS - MAIN **3**
46 NO OF APPR SPANS NEAR **00** FAR **00**
107 DECK TYPE **1**
108 WEARING SURFACE/PROTECTIVE SYSTEM **1 0 0**

CONDITION

58 DECK **CRACKS, SIDEWALK FILL SETTLED** RATING (9-0) **6**
59 SUPER **CRACKS** **6**
60 SUB **EROSION UNDER DRAINS** **8**
61 CHAN & PROT **TREES** **8 7**
62 CULV **N**

AGE AND SERVICE

27 YEAR BUILT **1994**
106 YEAR RECONST **0000**
42 TYPE OF SERVICE **15**
28 LANES ON **2** UNDER **0**
*₂₉ EST AVE DAILY TRAFFIC **1380**
*₃₀ YEAR ADT **2009**
*₁₀₉ TRUCK ADT **00** % (PRIMARY ONLY)
19 BYPASS, DETOUR LENGTH **1.000**

LOAD RATING AND POSTING

31 DESIGN LOAD **5** 64 OPERATING RATING **65.6** 66 INVENTORY RATING **39.3**
63 METHOD USED - OPERATING RATING **±** 65 METHOD USED - INVENTORY RATING **1**
70 BRIDGE POSTING **5** 41 STRUCTURE OPEN, POSTED OR CLOSED **A**
POSTED
CALC OPER **459** **591** **688**
CALC INV **435** **554** **653**

GEOMETRIC DATA

48 LONGEST SPAN **66** 112 NBIS BR **Y**
49 STRUCTURE LENGTH **172**
50 CURB OR SIDEWALK RT **0.0** LT **0.0**
51 BR RDWY WIDTH C-C **29.8**
52 DECK WIDTH O-O **39.0**
32 APPR RDWY WIDTH (W/ SHOULDERS) **24**
33 BRIDGE MEDIAN **NONE**
34 SKEW **45**
35 STRUCTURE FLARED **NO**
10 MIN VERT CLEAR 3m LANE **99 99**
47 TOTAL HORIZ CLEAR RT **29-80** 29 08 LT
53 VERT CLEAR OVER BR RDWY RT **99 99** LT
54 VERT UNDERCLEAR RT **N 00**
55 LAT UNDERCLEAR RT **N 00**
56 LAT UNDERCLEAR LT

APPRAISAL

67 STRUC EVAL **LEGAL** RATING (9-0) **6**
68 DECK GEO **5**
69 UNDERCLEAR, VERT & HORI **N**
71 WATER ADQ **8**
72 APP RDWY ALIG **APPROACH SPALLS** **9**
36 TRAFFIC SAFETY FEATURES **1000** 113 SCOUR CRIT BR **8**

NAVIGATION DATA

38 NAVIGATION CONTROL **0**
111 PIER PROTECTION
39 NAV VERT CLEARANCE **00**
116 VERT-LIFT BR NAV MIN VERT CLEAR **00.0**
40 NAVIGATION HORIZ CLEAR **00**

PROPOSED IMPROVEMENTS

75 TYPE OF WORK ----- **381** 76 LENGTH OF STRUCT. IMP **175**
94 BRIDGE IMP COST (1000's) **15** 95 RDWY IMPROVE COST (1000's) **2**
96 TOTAL PROJ COST (1000's) **22** 97 YEAR IMPROVE ESTIMATE MADE **2010- 2014**

CLASSIFICATION

101 PARALLEL HIGHWAY **N** 103 TEMPORARY STRUCTURE
102 DIRECTION OF TRAFFIC **2** *₂₆ FUNC CL **17 - URB - COLLECTOR**
20 TOLL **3** 21 MAINTAIN **04** 22 OWNER **04**

**NO POSTING REQUIRED. REPAIR FILL SETTLEMENT AT SIDEWALK
ENDS. MONITOR CRACKING AND EROSION.**

Pictures

NBI Number: 504270
Facility Carried: N 20TH ST(PROP)

Bridge ID: 17-504270
Feature(s) Intersected: WILLOW CREEK



Photo Number: 1

Photo Taken: 04/11/2014

ROAD VIEW LOOKING SOUTH



Photo Number: 2

Photo Taken: 04/11/2014

SIDE VIEW LOOKING WEST

Pictures

NBI Number: 504270

Bridge ID: 17-504270

Facility Carried: N 20TH ST(PROP)

Feature(s) Intersected: WILLOW CREEK

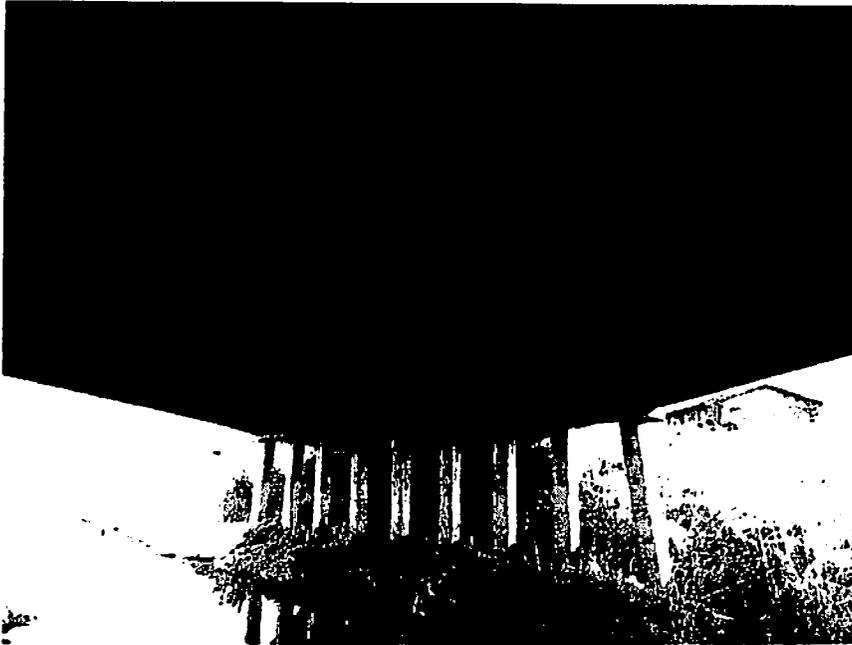


Photo Number: 3

Photo Taken: 04/11/2014

UNDER VIEW LOOKING NORTH

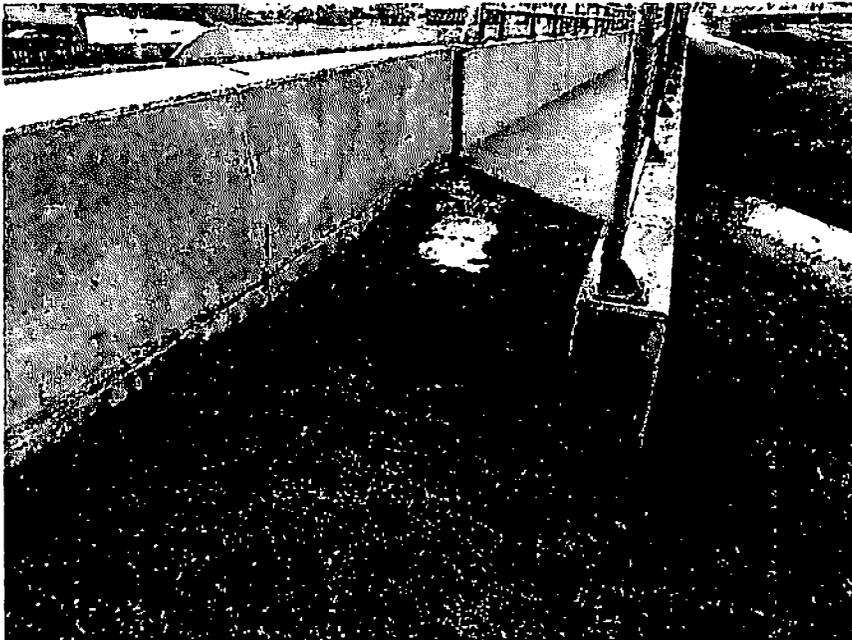


Photo Number: 4

Photo Taken: 04/11/2014

SETTLED NORTHWEST SIDEWALK APPROACH

Pictures

NBI Number: 504270

Bridge ID: 17-504270

Facility Carried: N 20TH ST(PROP)

Feature(s) Intersected: WILLOW CREEK

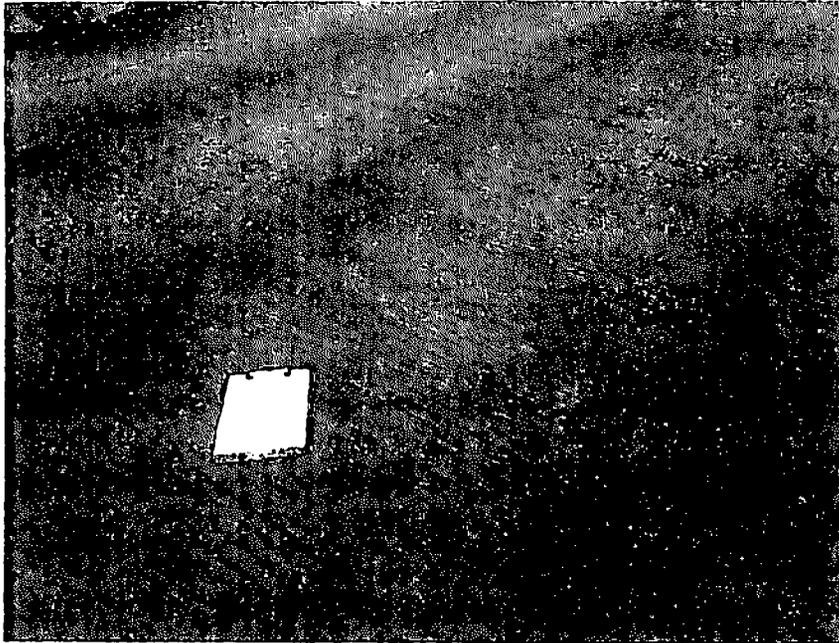


Photo Number: 5

Photo Taken: 04/11/2014

DECK CRACKS IN MAIN SPAN



Photo Number: 6

Photo Taken: 04/11/2014

CRACKED, SPALLED SOUTHEAST CURB AND END POST

Pictures

NBI Number: 504270

Bridge ID: 17-504270

Facility Carried: N 20TH ST(PROP)

Feature(s) Intersected: WILLOW CREEK



Photo Number: 7

Photo Taken: 04/11/2014

PATCHES UNDERSIDE AT CRACK LOCATIONS



Bridge No. <u>17-504270</u>	Bridge Type <u>CONTINUOUS CONCRETE SLAB</u>	Date <u>4/11/2014</u>
FHWA No. <u>504270</u>	Crossing (over) <u>WILLOW CREEK</u>	Inspector <u>JPD</u>
Street Name <u>N. 20TH ST.</u>	Township <u>LAKE</u>	City <u>CLEAR LAKE</u>
Sect. <u>07 T- 96 N, R- 21 W</u> Suff. Rating <u>93</u>	Est. Remaining Life <u>25</u> Yrs	ADT <u>1380</u> Year Built <u>1994</u>
Operating Rating <u>65.6</u> Inventory Rating <u>39.3</u>	Fracture Critical <input type="checkbox"/>	Item 113 Code <u>8</u> Yr. Reconst.

POSTED LOAD LIMITS

Posted Loading	<input type="checkbox"/> One Lane	Object Markers
	<input type="checkbox"/> Narrow	
Legibility: -	-	<u>8</u>
Visibility: -	-	<u>9</u>
Comments: <u>NONE</u>	<u>NONE</u>	

72. APPR. ALIGNMENT COND. RATING REMARKS

1. Alignment	<u>9</u>	
2. Approach Slab	<u>7</u>	<u>CRACKS</u>
3. Relief Joints	<u>7</u>	
4. Approach - Guardrail	<u>NONE</u>	
Pavement	<u>7</u>	<u>PCC & GUTTER, SPALLS N. & SE.</u>
Embankment	<u>9</u>	
INSPECTOR'S CONDITION RATING	<u>9</u>	

58. DECK ITEM CONDITION RATING REMARKS

1. Wearing Surface	<u>7</u>	<u>CRACKS</u>
2. Deck- Structural Condition	<u>6</u>	
3. Curbs	-	
4. Median	-	
5. Sidewalks	<u>6</u>	<u>SETTLED FILL OFF EACH SLAB, MORTAR NW.</u>
6. Parapet	-	
7. Railing	<u>7</u>	<u>TEMPERATURE & SHRINKAGE CRACKS, SPALL SE.</u>
8. Paint	-	
9. Drains	<u>8</u>	
10. Lighting Standards	<u>7</u>	<u>@ NE.</u>
11. Utilities	-	
12. Joint Leakage	-	
13. Expansion Joints and Devices	-	
14. Record Elevations (if available) @ CL Brgs and Spans	-	

INSPECTOR'S CONDITION RATING 6

59. SUPERSTRUCTURE

1. Bearing Devices	-	
2. Stringers	<u>6</u>	<u>PATCHES UNDERSIDE MAIN SPAN IN DIRECTION OF CRACKS ON SURFACE</u>
Lateral Support (<u>SLAB</u>)		
3. Girders/Beams	-	
Lateral Support ()		
4. Floor Beams	-	
Lateral Support ()		
5. Trusses - General	-	
Portals	-	
Bracing	-	
6. Paint	-	
7. Machinery (Movable Spans)	-	
8. Rivets or Bolts	-	
9. Welds - Cracks	-	
10. Rust	-	
11. Timber Decay	-	
12. Concrete Cracking	<u>6</u>	
13. Collision Damage	-	
14. Deflection Under Load	<u>8</u>	
15. Alignment of Members	-	
16. Vibration Under Load	<u>8</u>	

INSPECTOR'S CONDITION RATING 6

CONDITION RATING

(Use for SIA items 58, 59, 60, 61, 62, 62)

Date: 4/11/2014
 City: CLEAR LAKE
 Bridge No. 17-504270
 Street Name N. 20TH ST.

- N Not Applicable
- 9 Excellent Condition
- 8 Very Good Condition - No problems noted.
- 7 Good Condition - Some minor problems.
- 6 Satisfactory Condition - Structural Elements show minor deterioration
- 5 Fair Condition - Primary structural elements have minor section loss, spalling, cracking or scour.
- 4 Poor Condition - Advanced section loss, deterioration, spalling or scour. Posting for some truck traffic is warranted.
- 3 Serious Condition - Primary structural elements affected by section loss, deterioration, cracking or scour. Posting for most truck traffic is warranted immediately.
- 2 Critical Condition - Advanced deterioration of concrete or steel and/or critical scour. Structure should be closed to all traffic.
- 1 "Imminent" Failure Condition - Major deterioration of structural elements. Structure is closed but corrective action may allow light service.
- 0 Failed Condition - Out of service and beyond repair.

<u>ITEM</u>	<u>CONDITION RATING</u>	<u>REMARKS</u>
60. SUBSTRUCTURE		
1. Abutments - Caps	-	
Wings	8	
Backwall	8	
Footing	-	
Piles	-	
Erosion	6	<i>UNDER DRAINS</i>
Settlement	-	
2. Piers or Bents - Caps	8	
Columns	-	
Footings	-	
Piles	8	
Scour	7	
Settlement	-	
3. Pile Bents	8	
4. Concrete Cracking	8	
5. Steel Corrosion	-	
6. Timber Decay	-	
7. Debris on Seats	-	
8. Paint	-	
9. Collision Damage	-	

INSPECTOR'S CONDITION RATING 8

61. CHANNEL CHANNEL PROTECTION		
1. Channel Scour	7	
2. Embankment Erosion	7	
3. Drift	8	
4. Vegetation	6	<i>TREES UNDER (CUT)</i>
5. Channel Change	-	
6. Fender System	-	
7. Spur Dikes and Jetties	-	
8. Riprap	-	
9. Adequacy of Opening	8	
10. Channel Depth (Top of Deck to Streambed)	-	

INSPECTOR'S CONDITION RATIN 7

62. CULVERT RETAINING WALLS		
1. Barrel - Concrete	-	
Steel	-	
Timber	-	
2. Headwall	-	
3. Cut-off Wall	-	
4. Adequacy	-	
5. Debris	-	

INSPECTOR'S CONDITION RATING N



IOWA DEPARTMENT OF TRANSPORTATION
IOWA STRUCTURE INVENTORY AND APPRAISAL SHEET

Date Printed: 7/7/2014

* Sufficiency Rating 087

* Do Not Change

Note: WEST OF ORCHARD DR

IDENTIFICATION COUNTY ENGR.

* COUNTY/CITY Clear Lake
COUNTY ID E-15-CD
* STRUCTURE NO 362655
* INVENTORY ROUTE 151000000
2 STATE AREA NO 0
6 FEATURES CROSSED STREAM
7 FACILITY CARRIED NO.SHORE DR.
9 LOCATION 0
11 MILE POINT 0.000
98 BORDER BRIDGE CODE SHARE %
* 99 BORDER BRIDGE NO

INSPECTIONS

90 INSPECTION DATE 4 / 2014
91 FREQUENCY 24 MO
92 CRITICAL FEATURE INSPECTION Y/N
93 CFI DATE
A FRACTURE CRIT DETAIL N MO A MO YR
B UNDERWATER INSP N MO B MO YR
C OTHER SPECIAL INS N MO C MO YR
Inspected By: JORDAN P. DENMAN
Consulting Firm Name: CALHOUN-BURNS & ASSOCIATES, INC.

STRUCTURE TYPE AND MATERIAL

43 MAIN STRUCTURE TYPE 201
44 APPROACH TYPE NEAR 000 FAR 000
45 NO OF SPANS - MAIN 3
46 NO OF APPR SPANS NEAR 00 FAR 00
107 DECK TYPE 1
108 WEARING SURFACE/PROTECTIVE SYSTEM 6 0 0

CONDITION

58 DECK SURFACE CRACKS, SIDEWALKS UNDERMINED, 7
59 SUPER 7
60 SUB FOOTINGS UNDERMINING, EROSION, MINOR CRACKING 6
61 CHAN & PROT CRACKED FENDER WALLS 7
62 CULV N

AGE AND SERVICE

27 YEAR BUILT 1972
106 YEAR RECONST 0000
42 TYPE OF SERVICE 15
28 LANES ON 2 UNDER 0
* 29 EST AVE DAILY TRAFFIC 1620
* 30 YEAR ADT 1997
* 109 TRUCK ADT 00 % (PRIMARY ONLY)
19 BYPASS, DETOUR LENGTH 1.000

LOAD RATING AND POSTING

31 DESIGN LOAD 5 64 OPERATING RATING 70.3 66 INVENTORY RATING 42.1
63 METHOD USED - OPERATING RATING 1 65 METHOD USED - INVENTORY RATING 1
70 BRIDGE POSTING 5 41 STRUCTURE OPEN, POSTED OR CLOSED A
POSTED
CALC OPER 463 593 699
CALC INV 438 556 669

GEOMETRIC DATA

48 LONGEST SPAN 19 112 NBIS BR Y
49 STRUCTURE LENGTH 55
50 CURB OR SIDEWALK RT 4.0 LT 4.0
51 BR RDWY WIDTH C-C 29.8
52 DECK WIDTH O-O 38.4
32 APPR RDWY WIDTH (W/ SHOULDERS) 36
33 BRIDGE MEDIAN NONE
34 SKEW 0
35 STRUCTURE FLARED NO
10 MIN VERT CLEAR 3m LANE 99 99
47 TOTAL HORIZ CLEAR RT 29 00 LT
53 VERT CLEAR OVER BR RDWY RT 99 99 LT
54 VERT UNDERCLEAR RT N 00
55 LAT UNDERCLEAR RT N 00
56 LAT UNDERCLEAR LT

APPRAISAL

67 STRUC EVAL LEGAL 6
68 DECK GEO 5
69 UNDERCLEAR, VERT & HORI N
71 WATER ADQ 7
72 APP RDWY ALIG CRACKED APPROACH PAVEMENT 8
36 TRAFFIC SAFETY FEATURES 0000 113 SCOUR CRIT BR 8

NAVIGATION DATA

38 NAVIGATION CONTROL 0
111 PIER PROTECTION
39 NAV VERT CLEARANCE 00
116 VERT-LIFT BR NAV MIN VERT CLEAR 00.0
40 NAVIGATION HORIZ CLEAR 00

PROPOSED IMPROVEMENTS

75 TYPE OF WORK 76 LENGTH OF STRUCT IMP 55
94 BRIDGE IMP. COST (1000's) 15 95 RDWY IMPROVE COST (1000's) 2
96 TOTAL PROJ. COST (1000's) 22 97 YEAR IMPROVE ESTIMATE MADE 2010- 2014

CLASSIFICATION

101 PARALLEL HIGHWAY N 103 TEMPORARY STRUCTURE
102 DIRECTION OF TRAFFIC 2 *26 FUNC. CL 16 - URB - MIN ART
20 TOLL 3 21 MAINTAIN 04 22 OWNER 04

NO POSTING REQUIRED. MONITOR CRACKING.

Pictures

NBI Number: 362655

Bridge ID: E-15-CD

Facility Carried: NO.SHORE DR.

Feature(s) Intersected: STREAM

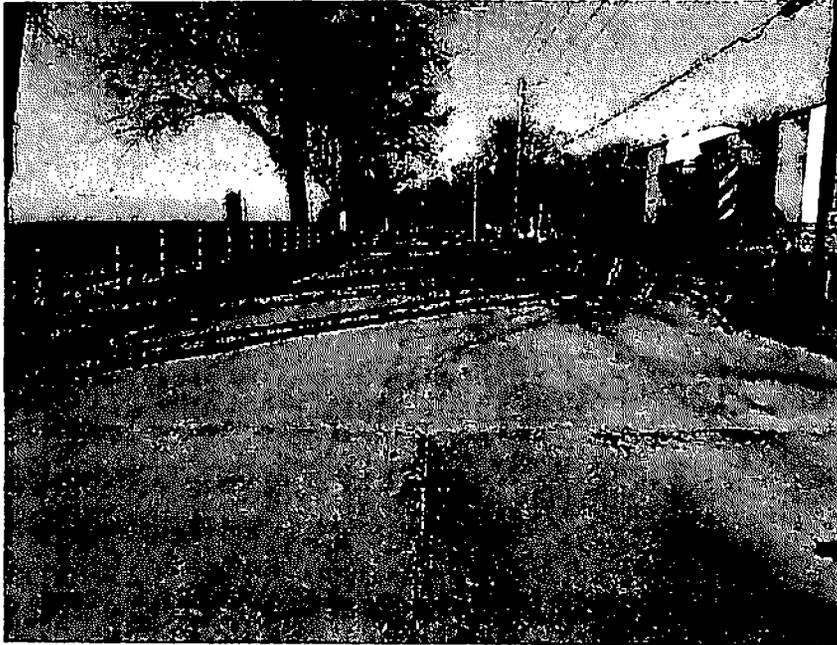


Photo Number: 1

Photo Taken: 04/11/2014

ROAD VIEW LOOKING WEST

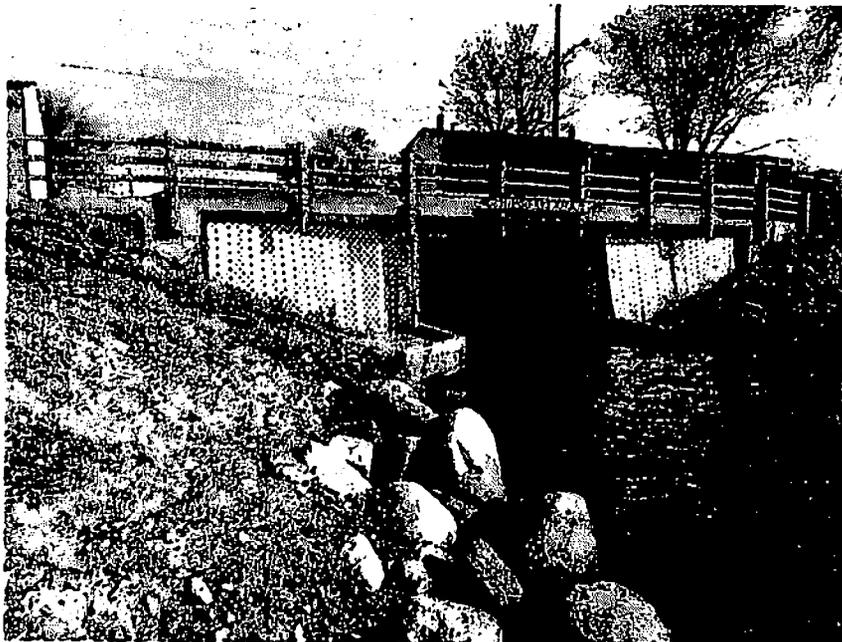


Photo Number: 2

Photo Taken: 04/11/2014

SIDE VIEW LOOKING NORTH

Pictures

NBI Number: 362655
Facility Carried: NO.SHORE DR.

Bridge ID: E-15-CD
Feature(s) Intersected: STREAM



Photo Number: 3

Photo Taken: 04/11/2014

SIDE VIEW LOOKING SOUTH

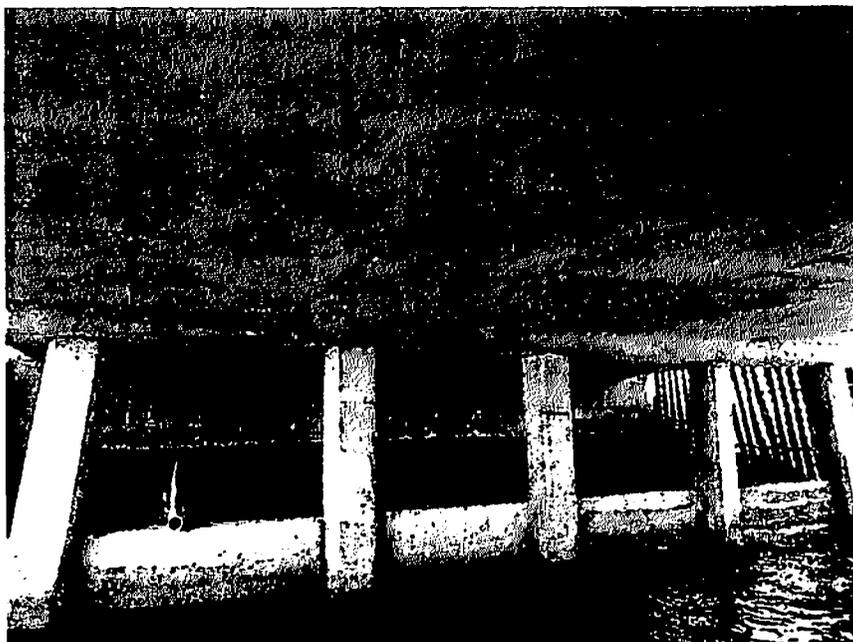


Photo Number: 4

Photo Taken: 04/11/2014

UNDER VIEW LOOKING EAST

Pictures

NBI Number: 362655
Facility Carried: NO.SHORE DR.

Bridge ID: E-15-CD
Feature(s) Intersected: STREAM



Photo Number: 5

Photo Taken: 04/11/2014

EROSION AT SOUTHEAST APPROACH



Photo Number: 6

Photo Taken: 04/11/2014

UNDERMINED NORTHEAST SIDEWALK APPROACH

Pictures

NBI Number: 362655
Facility Carried: NO.SHORE DR.

Bridge ID: E-15-CD
Feature(s) Intersected: STREAM

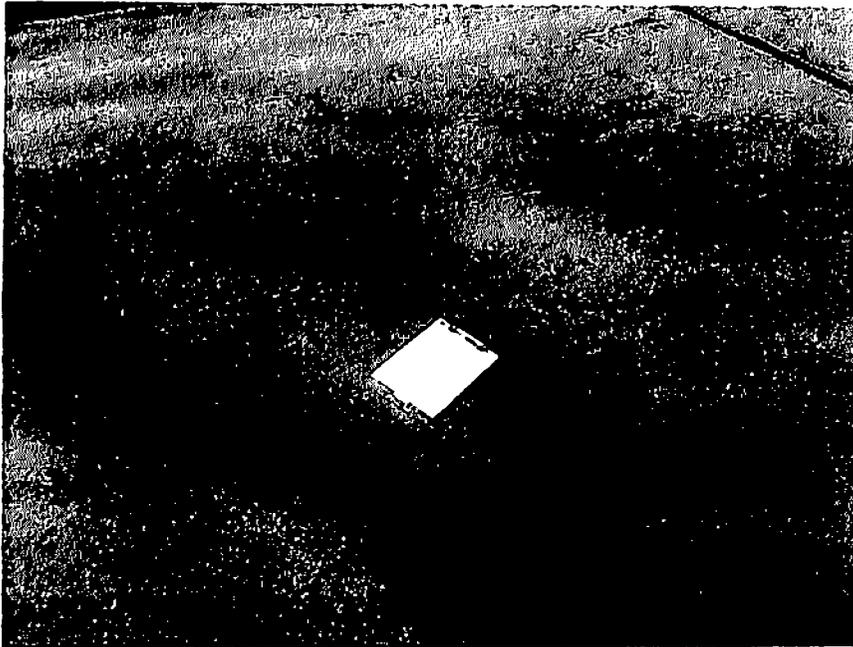


Photo Number: 7

Photo Taken: 04/11/2014

TYPICAL RANDOM CRACKS ON DECK



Photo Number: 8

Photo Taken: 04/11/2014

EROSION AT SOUTHWEST

Pictures

NBI Number: 362655

Bridge ID: E-15-CD

Facility Carried: NO.SHORE DR.

Feature(s) Intersected: STREAM

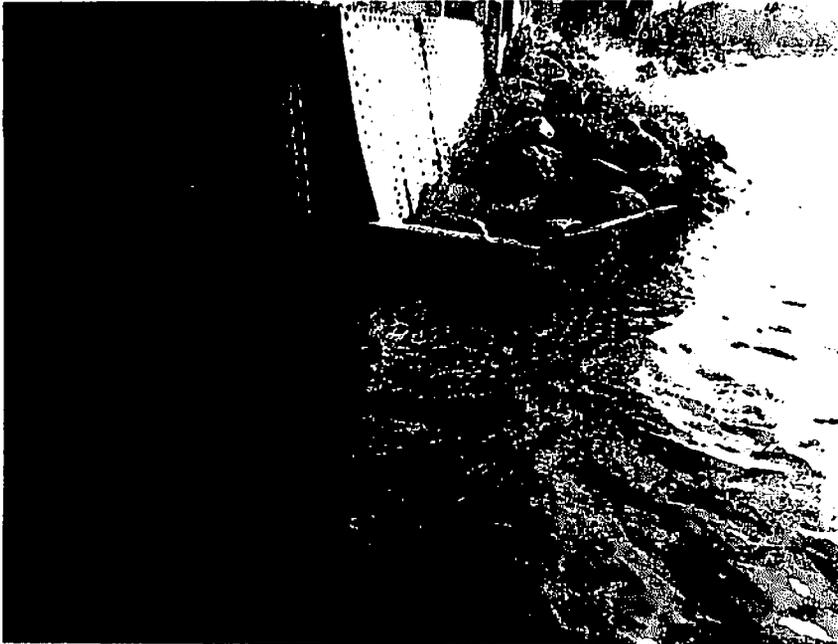


Photo Number: 9

Photo Taken: 04/11/2014

CRACKED, BROKEN SOUTHEAST FENDER WALL

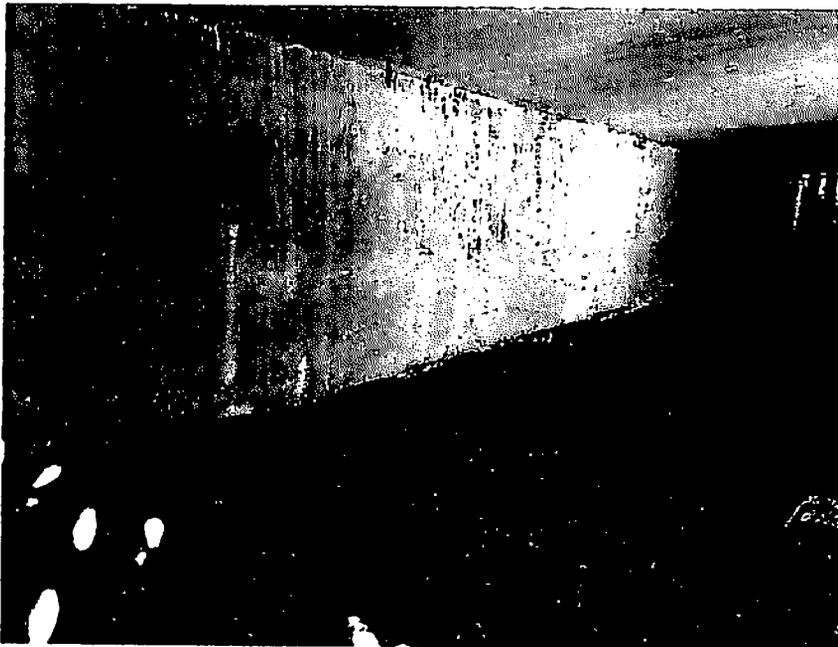


Photo Number: 10

Photo Taken: 04/11/2014

UNDERMINED WEST ABUTMENT FOOTING

Pictures

NBI Number: 362655

Bridge ID: E-15-CD

Facility Carried: NO.SHORE DR.

Feature(s) Intersected: STREAM



Photo Number: 11

Photo Taken: 04/11/2014

NEW SIDEWALK APPROACH AT NORTHWEST



Photo Number: 12

Photo Taken: 04/11/2014

UNDERMINED EAST ABUTMENT FOOTING

Pictures

NBI Number: 362655

Bridge ID: E-15-CD

Facility Carried: NO.SHORE DR.

Feature(s) Intersected: STREAM



Photo Number: 13

Photo Taken: 04/11/2014

EXPOSED HOOPS AT EAST PIER PILE, 3RD FROM SOUTH



Bridge No. <i>E-15-CD</i>	Bridge Type <i>CONTINUOUS CONCRETE SLAB</i>	Date <i>4/11/2014</i>
FHWA No. <i>362655</i>	Crossing (over) <i>STREAM</i>	Inspector <i>JPD</i>
Street Name <i>N. SHORE DR.</i>	Township <i>CLEAR LAKE</i>	City <i>CLEAR LAKE</i>
Sect. <i>15 T- 96 N, R- 22 W</i> Suff. Rating <i>87</i>	Est. Remaining Life <i>25</i> Yrs	ADT <i>1620</i> Year Built <i>1972</i>
Operating Rating <i>70.3</i> Inventory Rating <i>42.1</i>	Fracture Critical <input type="checkbox"/>	Item 113 Code <i>8</i> Yr. Reconst.

POSTED LOAD LIMITS

	Posted Loading	One Lane Narrow	Object Markers
Legibility:	-	-	7
Visibility:	-	-	8
Comments:	<i>NONE</i>	<i>NONE</i>	

72. APPR. ALIGNMENT COND. RATING REMARKS

Item	COND. RATING	REMARKS
1. Alignment	7	<i>SLIGHT CURVE W.</i>
2. Approach Slab	6	<i>CRACKS</i>
3. Relief Joints	6	
4. Approach - Guardrail	NONE	
Pavement	6	<i>CRACKED P.C.C.</i>
Embankment	8	
INSPECTOR'S CONDITION RATING	8	

58. DECK ITEM CONDITION RATING REMARKS

ITEM	CONDITION RATING	REMARKS
1. Wearing Surface	6	<i>SURFACE CRACKS THROUGHOUT</i>
2. Deck- Structural Condition	7	
3. Curbs	7	
4. Median	-	
5. Sidewalks	7	<i>MINOR TRANSVERSE CRACKS, UNDERMINED NE. SE. & SW.</i>
6. Parapet	-	
7. Railing	6	<i>EROSION @ POSTS OFF ENDS OF BRIDGE</i>
8. Paint	6	<i>PEDESTRIAN HAND RAIL PEELED</i>
9. Drains	7	<i>SIDEWALKS DRAIN ONTO ROADWAY</i>
10. Lighting Standards	-	
11. Utilities	6	<i>CABLE N. SIDE EDGE OF SLAB, SE. CORNER w/ CABLE ON E. ABUTMENT SLOPE</i>
12. Joint Leakage	-	
13. Expansion Joints and Devices	-	
14. Record Elevations (if available) @ CL Brgs and Spans	-	
INSPECTOR'S CONDITION RATING	7	

59. SUPERSTRUCTURE

1. Bearing Devices	-	
2. Stringers	7	
Lateral Support (<i>SLAB</i>)		
3. Girders/Beams	-	
Lateral Support ()		
4. Floor Beams	-	
Lateral Support ()		
5. Trusses - General	-	
Portals	-	
Bracing	-	
6. Paint	-	
7. Machinery (Movable Spans)	-	
8. Rivets or Bolts	-	
9. Welds - Cracks	-	
10. Rust	-	
11. Timber Decay	-	
12. Concrete Cracking	7	
13. Collision Damage	-	
14. Deflection Under Load	7	
15. Alignment of Members	-	
16. Vibration Under Load	7	
INSPECTOR'S CONDITION RATING	7	

CONDITION RATING

(Use for SIA items 58, 59, 60, 61, 62, 62)

Date: 4/11/2014

City: CLEAR LAKE

Bridge No. E-15-CD

Street Name N. SHORE DR.

- N Not Applicable
- 9 Excellent Condition
- 8 Very Good Condition - No problems noted.
- 7 Good Condition - Some minor problems.
- 6 Satisfactory Condition - Structural Elements show minor deterioration
- 5 Fair Condition - Primary structural elements have minor section loss, spalling, cracking or scour.
- 4 Poor Condition - Advanced section loss, deterioration, spalling or scour. Posting for some truck traffic is warranted.
- 3 Serious Condition - Primary structural elements affected by section loss, deterioration, cracking or scour. Posting for most truck traffic is warranted immediately.
- 2 Critical Condition - Advanced deterioration of concrete or steel and/or critical scour. Structure should be closed to all traffic.
- 1 "Imminent" Failure Condition - Major deterioration of structural elements. Structure is closed but corrective action may allow light service.
- 0 Failed Condition - Out of service and beyond repair.

ITEM	CONDITION RATING	REMARKS
60. SUBSTRUCTURE		
1. Abutments - Caps	-	
Wings	6	EROSION SW.
Backwall	6	
Footing	5	BOTH UNDERMINING
Piles	-	
Erosion	5	ABUTMENT SLOPES & SW. WING
Settlement	-	
2. Piers or Bents - Caps	7	
Columns	-	
Footings	-	
Piles	6	MINOR SPALLS WHERE INADEQUATE CONC. COVER, EXPOSED HOOPS
Scour	7	
Settlement	-	
3. Pile Bents	7	
4. Concrete Cracking	6	MINOR
5. Steel Corrosion	-	
6. Timber Decay	-	
7. Debris on Seats	-	
8. Paint	-	
9. Collision Damage	-	

INSPECTOR'S CONDITION RATING **6****61. CHANNEL CHANNEL PROTECTION**

1. Channel Scour	7	LAKE IMMEDIATELY S.
2. Embankment Erosion	7	
3. Drift	7	FENCES ACROSS APPROACH SPANS
4. Vegetation	7	
5. Channel Change	-	
6. Fender System	6	CONCRETE BETWEEN PIERS TO CONTAIN WATER, BROKEN SE., CRACKS
7. Spur Dikes and Jetties	-	
8. Riprap	6	
9. Adequacy of Opening	7	
10. Channel Depth (Top of Deck to Streambed)	-	

INSPECTOR'S CONDITION RATING **7****62. CULVERT RETAINING WALLS**

- | | | |
|----------------------|---|--|
| 1. Barrel - Concrete | - | |
| Steel | - | |
| Timber | - | |
| 2. Headwall | - | |
| 3. Cut-off Wall | - | |
| 4. Adequacy | - | |
| 5. Debris | - | |

INSPECTOR'S CONDITION RATING **N**

Trolley Trail

4th Ave S

Trolley Trail

IOWA STRUCTURE INVENTORY AND APPRAISAL SHEET

* Sufficiency Rating

Date Printed: _____
Do Not Change

IDENTIFICATION COUNTY ENGR.

COUNTY/CITY CLEAR LAKE

COUNTRY ID < 20

* 8 STRUCTURE NO 5TH AVE. S.

* 5 INVENTORY ROUTE 5TH AVE. S.

2 STATE AREA NO 5

6 FEATURES CROSSED CLEAR CREEK

7 FACILITY CARRIED 4TH AVE. S.

9 LOCATION 000000

11 MILE POINT 0.000

58 BORDER BRIDGE CODE 000

* 59 BORDER BRIDGE NO

STRUCTURE TYPE AND MATERIAL

43 MAIN STRUCTURE TYPE 119

44 APPROACH TYPE NEAR 0 FAR 0

45 NO OF SPANS - MAIN 1

46 NO OF APPR SPANS 0 NEAR 00 FAR 00

107 DECK TYPE N

108 WEARING SURFACE/PROTECTIVE SYSTEM N N N N

AGE AND SERVICE

27 YEAR BUILT 1900

106 YEAR RECONST 0000

42 TYPE OF SERVICE 15

28 LANES: 2 ON

29 EST AVE DAILY TRAFFIC 5300

* 30 YEAR ADT 2009

109 TRUCK ADT

19 BYPASS, DETOUR LENGTH 2.0

GEOMETRIC DATA

48 LONGEST SPAN 12

112 NBIS BR. 0

49 STRUCTURE LENGTH 12

60 CURB OR SIDEWALK 10 RT 0 LT

51 BR ROW WIDTH C-C 78.0

52 DECK WIDTH O-O 78.0

32 APPR ROW WIDTH (W/ SHOULDERS) 42

33 BRIDGE MEDIAN N

34 SKEW 0

35 STRUCTURE FLARED N

10 MIN VERT CLEAR 3m LANE

47 TOTAL HORIZ CLEAR RT 78.00

53 VERT CLEAR OVER BR ROW RT 99.99

54 VERT UNDERCLEAR RT 99.99

55 LAT UNDERCLEAR RT 99.99

56 LAT UNDERCLEAR LT 99.99

NAVIGATION DATA

38 NAVIGATION CONTROL 0

111 PIER PROTECTION

39 NAV VERT CLEARANCE 0

116 VERT-LIFT BR NAV MIN VERT CLEAR 00.0

40 NAVIGATION HORIZ CLEAR 0

LAST RECORDED INSPECTION

INSPECTIONS

90 INSPECTION DATE 4/14

91 FREQUENCY 24 MO

92 CRITICAL FEATURE INSPECTION Y/N

A FRACTURE CRIT DETAIL N MO

B UNDERWATER INSP N MO

C OTHER SPECIAL INSP N MO

INSPECTED BY: JORAN P. DENMAN

CONSULTING FIRM NAME: CALHOUN-BURNS & ASSOC.

CONDITION

RATING (9-0) N

58 DECK N

59 SUPER N

60 SUB N

61 CHAN & PROT SLOPE, EROSION, TREES 6

62 CULV CRACKING, LEAKING, SPALLS, JOINT SEPARATION, BARREL OVERTN. 5

LOAD RATING AND POSTING

31 DESIGN LOAD 0

64 OPERATING RATING 36.0

66 INVENTORY RATING 27.0

63 METHOD USED - OPERATING RATING 5

65 METHOD USED - INVENTORY RATING 5

70 BRIDGE POSTING 5

41 STRUCTURE OPEN, POSTED OR CLOSED A

APPRAISAL

67 STRUC EVAL LEGAL

68 DECK GEO 8

69 UNDERCLEAR, VERT & HORI N

71 WATER ADD CHANNEL BENDS UP/DOWNSTREAM 6

72 APP RDWY ALIG CRACKS, POTHOLE 8

PROPOSED IMPROVEMENTS

76 TYPE OF WORK 311

94 BRIDGE IMP. COST (1000\$) 15

95 RDWY. IMPROVE COST (1000\$) 2

97 YEAR IMPROVE ESTIMATE MADE 2014

CLASSIFICATION

103 TEMPORARY STRUCTURE

102 DIRECTION OF TRAFFIC 2

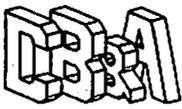
20 TOLL 3

21 MAINTAIN 04

22 OWNER 04

If necessary attach additional remarks

No POSTING REQUIR. REPAIR VOIDS AT JOINT LOCATIONS.



CITY OF CLEAR LAKE

BRIDGE 4TH AVE. S

APRIL 11, 2014



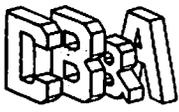
ROAD VIEW LOOKING EAST



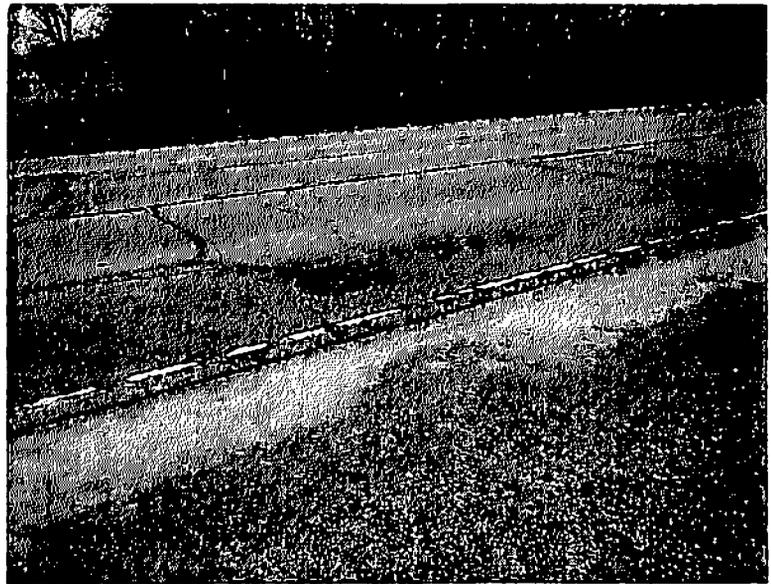
SIDE VIEW LOOKING NORTH



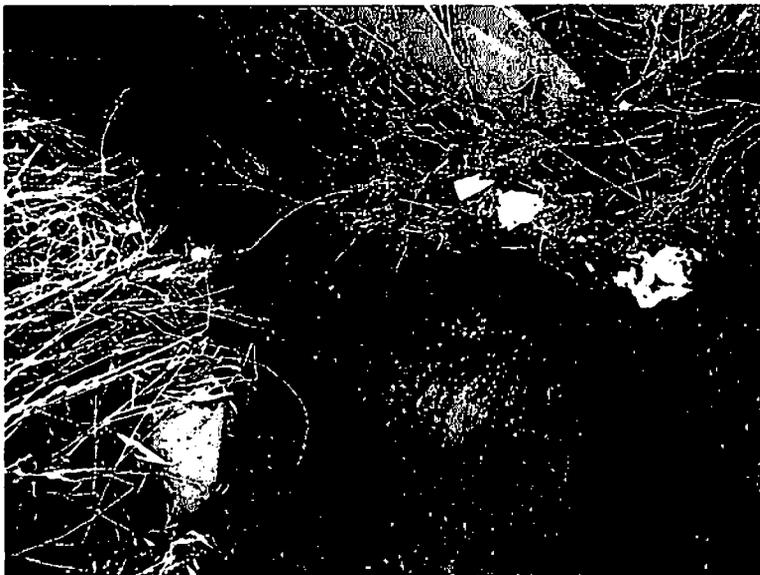
SIDE VIEW LOOKING SOUTH



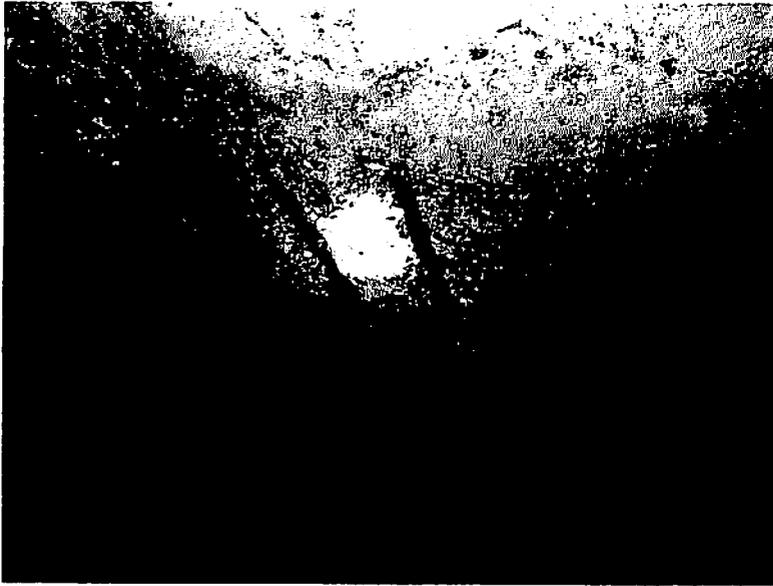
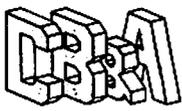
EROSION AT SOUTHEAST WING – NOTE TREES



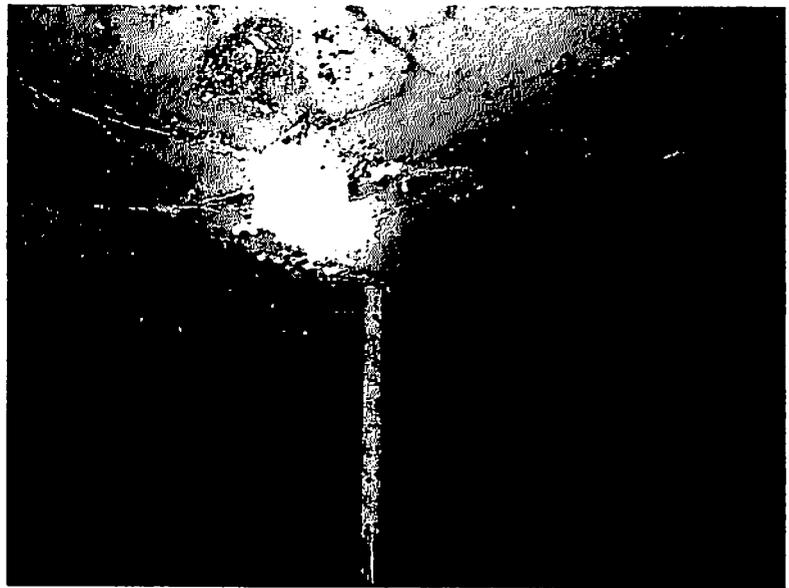
POTHOLE AND CRACKING OVER BARREL, LOOKING NORTHEAST



1' SCOUR AT INLET



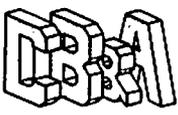
**SPALL WITH EXPOSED REINFORCEMENT
IN TOP SLAB, WITH TYPICAL CRACKING
AND LEACHING AT JOINTS**



**1" TO 2" JOINT SEPARATION WITH
CRACKING AND LEACHING AT
CENTERLINE, WITH VOID
DEVELOPING**



**1' VOID DEVELOPING AT EAST WALL AT
CENTERLINE JOINT**



CITY OF CLEAR LAKE

BRIDGE 4TH AVE. S

APRIL 11, 2014



**2" SEPARATION AT EAST WALL AT
CENTERLINE JOINT**



Bridge No. <u>4TH AVE. S.</u>	Bridge Type <u>SINGLE R.C.B. CULVERT</u>	Date <u>4/11/2014</u>
FHWA No. <u><20</u>	Crossing (over) <u>CLEAR CREEK</u>	Inspector <u>JPD</u>
Street Name <u>4TH AVE. S.</u>	Township <u>LAKE</u>	City <u>CLEAR LAKE</u>
Sect. <u>17 T- 96 N, R- 21 W</u> Suff. Rating	Est. Remaining Life <u>10</u> Yrs	ADT <u>5300</u> Year Built <u>1900</u>
Operating Rating <u>36.0</u> Inventory Rating <u>27.0</u>	Fracture Critical <input type="checkbox"/>	Item 113 Code
		Yr. Reconst.

POSTED LOAD LIMITS

Posted One Lane Object
Loading Narrow Markers

Legibility: - - 8
Visibility: - - 8
Comments: NONE NONE

72. APPR. ALIGNMENT COND. RATING REMARKS

1. Alignment	<u>8</u>	
2. Approach Slab	<u>-</u>	
3. Relief Joints	<u>-</u>	
4. Approach - Guardrail	<u>NONE</u>	
Pavement	<u>7</u>	<u>POTHOLE @ SW., CRACKS</u>
Embankment	<u>8</u>	
INSPECTOR'S CONDITION RATING	<u>8</u>	

<u>58. DECK</u>	<u>ITEM</u>	<u>CONDITION RATING</u>	<u>REMARKS</u>
1.	Wearing Surface	<u>-</u>	
2.	Deck- Structural Condition	<u>-</u>	
3.	Curbs	<u>-</u>	
4.	Median	<u>-</u>	
5.	Sidewalks	<u>-</u>	
6.	Parapet	<u>-</u>	
7.	Railing	<u>-</u>	
8.	Paint	<u>-</u>	
9.	Drains	<u>-</u>	
10.	Lighting Standards	<u>-</u>	
11.	Utilities	<u>-</u>	
12.	Joint Leakage	<u>-</u>	
13.	Expansion Joints and Devices	<u>-</u>	
14.	Record Elevations (if available) @ CL Brgs and Spans	<u>-</u>	

INSPECTOR'S CONDITION RATING N

59. SUPERSTRUCTURE

1.	Bearing Devices	<u>-</u>	
2.	Stringers	<u>-</u>	
	Lateral Support ()		
3.	Girders/Beams	<u>-</u>	
	Lateral Support ()		
4.	Floor Beams	<u>-</u>	
	Lateral Support ()		
5.	Trusses - General	<u>-</u>	
	Portals	<u>-</u>	
	Bracing	<u>-</u>	
6.	Paint	<u>-</u>	
7.	Machinery (Movable Spans)	<u>-</u>	
8.	Rivets or Bolts	<u>-</u>	
9.	Welds - Cracks	<u>-</u>	
10.	Rust	<u>-</u>	
11.	Timber Decay	<u>-</u>	
12.	Concrete Cracking	<u>-</u>	
13.	Collision Damage	<u>-</u>	
14.	Deflection Under Load	<u>-</u>	
15.	Alignment of Members	<u>-</u>	
16.	Vibration Under Load	<u>-</u>	

INSPECTOR'S CONDITION RATING N

CONDITION RATING

(Use for SIA items 58, 59, 60, 61, 62, 62)

Date: 4/11/2014
 City: CLEAR LAKE
 Bridge No. 4TH AVE. 5.
 Street Name 4TH AVE. 5.

- N Not Applicable
- 9 Excellent Condition
- 8 Very Good Condition - No problems noted.
- 7 Good Condition - Some minor problems.
- 6 Satisfactory Condition - Structural Elements show minor deterioration
- 5 Fair Condition - Primary structural elements have minor section loss, spalling, cracking or scour.
- 4 Poor Condition - Advanced section loss, deterioration, spalling or scour. Posting for some truck traffic is warranted.
- 3 Serious Condition - Primary structural elements affected by section loss, deterioration, cracking or scour. Posting for most truck traffic is warranted immediately.
- 2 Critical Condition - Advanced deterioration of concrete or steel and/or critical scour. Structure should be closed to all traffic.
- 1 "Imminent" Failure Condition - Major deterioration of structural elements. Structure is closed but corrective action may allow light service.
- 0 Failed Condition - Out of service and beyond repair.

<u>ITEM</u>	<u>CONDITION RATING</u>	<u>REMARKS</u>
<u>60. SUBSTRUCTURE</u>		
1. Abutments - Caps	-	
Wings	-	
Backwall	-	
Footing	-	
Piles	-	
Erosion	-	
Settlement	-	
2. Piers or Bents - Caps	-	
Columns	-	
Footings	-	
Piles	-	
Scour	-	
Settlement	-	
3. Pile Bents	-	
4. Concrete Cracking	-	
5. Steel Corrosion	-	
6. Timber Decay	-	
7. Debris on Seats	-	
8. Paint	-	
9. Collision Damage	-	

INSPECTOR'S CONDITION RATING N

<u>61.CHANNEL CHANNEL PROTECTION</u>		
1. Channel Scour	6	1' @ INLET
2. Embankment Erosion	6	SE. WING, @ OUTLET BANKS
3. Drift	8	
4. Vegetation	5	@ INLET & OUTLET (CUT)
5. Channel Change	6	90° BENDS UP & DOWNSTREAM
6. Fender System	-	
7. Spur Dikes and Jetties	-	
8. Riprap	-	
9. Adequacy of Opening	6	
10. Channel Depth (Top of Deck to Streambed)	-	

INSPECTOR'S CONDITION RATING 6

<u>62.CULVERT RETAINING WALLS</u>		
1. Barrel - Concrete	5	CRACKING & LEACHING w/SPALLS & EXP. REINF. IN ORIG. SECTION, 1-2" JOINT SEPARATION
Steel	-	w/BARREL DETER., VOIDS DEVELOPING @ JOINTS
Timber	-	
2. Headwall	6	
3. Cut-off Wall	-	
4. Adequacy	6	
5. Debris	-	MINOR SILT IN BARREL

INSPECTOR'S CONDITION RATING 5

Main Ave

St John St

LUCKY

LUCKY

LUCKY

IOWA STRUCTURE INVENTORY AND APPRAISAL SHEET

Date Printed:

* Sufficiency Rating

* Do Not Change

Note:

IDENTIFICATION COUNTY ENGR.

* COUNTY/CITY CLEAR LAKE
 COUNTY ID 0000
 * 8 STRUCTURE NO 220'
 * 5 INVENTORY ROUTE S. 40TH ST.
 2 STATE AREA NO 5
 6 FEATURES CROSSED CLEAR CREEK
 7 FACILITY CARRIED S. 40TH ST.
 9 LOCATION 000000
 11 MILE POINT 0.000
 98 BORDER BRIDGE CODE 000
 * 99 BORDER BRIDGE NO

SHARE 0%

INSPECTIONS

90 INSPECTION DATE 4/14
 91 FREQUENCY 24 MO
 92 CRITICAL FEATURE INSPECTION Y/N
 93 CFI DATE
 A FRACTURE CRIT DETAIL N MO A MO YR
 B UNDERWATER INSP N MO B MO YR
 C OTHER SPECIAL INSP N MO C MO YR
 Inspected By: JORDAN P. DENMAN
 Consulting Firm Name: CALHOUN-BURNS & ASSOC.

STRUCTURE TYPE AND MATERIAL

43 MAIN STRUCTURE TYPE 101
 44 APPROACH TYPE NEAR 0 FAR 0
 45 NO OF SPANS - MAIN 1
 46 NO OF APPR SPANS NEAR 00 FAR 00
 107 DECK TYPE 1
 108 WEARING SURFACE/PROTECTIVE SYSTEM 600

CONDITION

58 DECK 4" HMA OVERLAY W/ 17" FILL RATING (9-0) 4
 59 SUPER CRACKING, LEAKING, SPALLING W/ EXP. REIN. DET'N. 4
 60 SUB DET'N SPALLING W/ EXP. REIN. 4
 61 CHAN & PROT EROSION 6
 62 CULV N

AGE AND SERVICE

27 YEAR BUILT 1900
 106 YEAR RECONST 0000
 42 TYPE OF SERVICE 15
 28 LANES: ON 2 UNDER 0
 * 29 EST AVE DAILY TRAFFIC 300
 * 30 YEAR ADT 2009
 109 TRUCKADT % (PRIMARY ONLY)
 19 BYPASS, DETOUR LENGTH 4.00

LOAD RATING AND POSTING

31 DESIGN LOAD 0 64 OPERATING RATING 36.0 66 INVENTORY RATING 27.0
 63 METHOD USED - OPERATING RATING 5 65 METHOD USED - INVENTORY RATING 5
 70 BRIDGE POSTING 5 41 STRUCTURE OPEN, POSTED OR CLOSED A
 POSTED
 CALC OPER 428 540 640
 CALC INV 420 530 630

GEOMETRIC DATA

48 LONGEST SPAN 12 112 NBIS BR 0
 49 STRUCTURE LENGTH 12
 50 CURB OR SIDEWALK RT 0.0 LT 0.0
 51 BR RDWY WIDTH C-C 22.8
 52 DECK WIDTH O-O 24.2
 32 APPR RDWY WIDTH (W/ SHOULDERS) 30
 33 BRIDGE MEDIAN
 34 SKEW 5
 35 STRUCTURE FLARED N
 10 MIN VERT CLEAR 3m LANE 9999
 47 TOTAL HORIZ CLEAR RT 22 10 LT
 53 VERT CLEAR OVER BR RDWY RT 99 99 LT
 54 VERT UNDERCLEAR RT N 000
 55 LAT UNDERCLEAR RT N 000
 56 LAT UNDERCLEAR LT

APPRAISAL

67 STRUC EVAL LEGAL RATING (9-0) 4
 68 DECK GEO 6
 69 UNDERCLEAR, VERT & HORI N
 71 WATER ADQ 6
 72 APP RDWY ALIG CURVES 6
 36 TRAFFIC SAFETY FEATURES NNNN 113 SCOUR CRIT BR

NAVIGATION DATA

38 NAVIGATION CONTROL 0
 111 PIER PROTECTION
 39 NAV VERT CLEARANCE 0
 116 VERT-LIFT BR NAV MIN VERT CLEAR 00.0
 40 NAVIGATION HORIZ CLEAR 0

PROPOSED IMPROVEMENTS

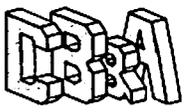
75 TYPE OF WORK 311 76 LENGTH OF STRUCT. IMPR 40
 94 BRIDGE IMP. COST (1000's) 115 95 RDWY. IMPROVE COST (1000's) 12
 96 TOTAL PROJ. COST (1000's) 173 97 YEAR IMPROVE ESTIMATE MADE 2014

CLASSIFICATION

101 PARALLEL HIGHWAY N 103 TEMPORARY STRUCTURE
 102 DIRECTION OF TRAFFIC 2 *26 FUNC. CL LOCAL
 20 TOLL 3 21 MAINTAIN 04 22 OWNER 04

LAST RECORDED INSPECTION

NO POSTING REQUIRED. MONITOR CONCRETE
 DEGRADATION. CONSIDER REPLACEMENT.



CITY OF CLEAR LAKE

BRIDGE - S. 40TH ST
APRIL 11, 2014



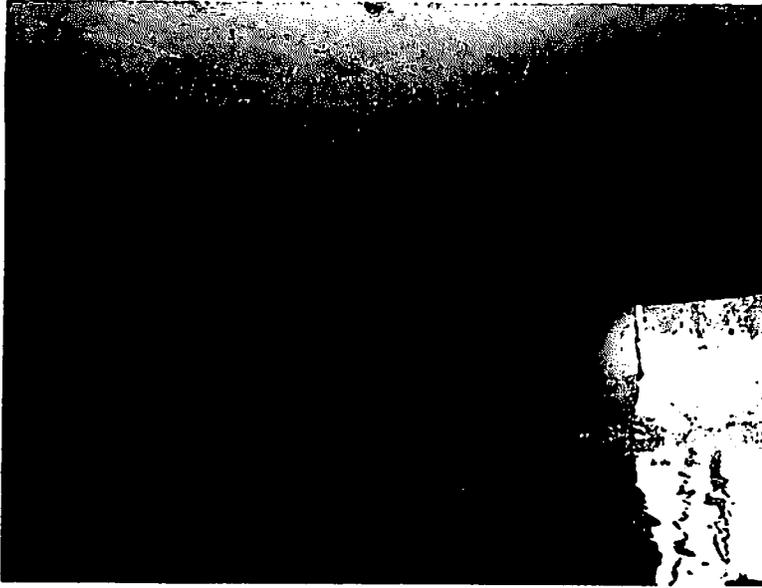
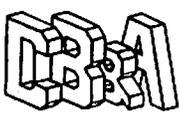
ROAD VIEW LOOKING SOUTH



SIDE VIEW LOOKING EAST



SIDE VIEW LOOKING WEST



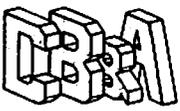
UNDER VIEW LOOKING SOUTH



BROKEN WEST RAILS, LOOKING SOUTH



10" FROM TOP OF ROADWAY TO TOP OF RAIL



SPALLED SOUTHWEST CORNER WITH EXPOSED REINFORCEMENT AND CONCRETE DETERIORATION



SPALLED WEST EDGE WITH EXPOSED REINFORCEMENT, LOOKING NORTH



SPALLED UNDERSIDE AT EAST WITH EXPOSED REINFORCEMENT, LOOKING NORTH



Bridge No. <u>5. 40TH STREET</u>	Bridge Type <u>CONCRETE SLAB</u>	Date <u>4/11/2014</u>
FHWA No. <u><20</u>	Crossing (over) <u>CLEAR CREEK</u>	Inspector <u>JPD</u>
Street Name <u>5. 40TH ST.</u>	Township <u>LAKE</u>	City <u>CLEAR LAKE</u>
Sect. <u>17 T- 96 N, R- 21 W</u> Suff. Rating	Est. Remaining Life <u>5</u> Yrs	ADT <u>300</u> Year Built <u>1900</u>
Operating Rating <u>36.0</u> Inventory Rating <u>27.0</u>	Fracture Critical	Item 113 Code

POSTED LOAD LIMITS

Posted	One Lane	Object
Loading	Narrow	Markers
Legibility: -	-	<u>8</u>
Visibility: -	-	<u>8</u>
Comments: <u>NONE</u>	<u>NONE</u>	

72. APPR. ALIGNMENT COND. RATING REMARKS

1. Alignment	<u>6</u>	<u>CURVES BOTH WAYS</u>
2. Approach Slab	-	
3. Relief Joints	-	
4. Approach - Guardrail	<u>NONE</u>	
Pavement	<u>6</u>	<u>SETTLED @ ENDS</u>
Embankment	<u>6</u>	
INSPECTOR'S CONDITION RATING	<u>6</u>	

58. DECK ITEM CONDITION RATING REMARKS

1. Wearing Surface	<u>5</u>	<u>4" HMA OVERLAY w/ 17" FILL</u>
2. Deck- Structural Condition	<u>4</u>	<u>SPALLING w/ EXP. REINF.</u>
3. Curbs	<u>4</u>	<u>BURIED</u>
4. Median	-	
5. Sidewalks	-	
6. Parapet	-	
7. Railing	<u>4</u>	<u>BROKEN, DAMAGED</u>
8. Paint	-	
9. Drains	-	
10. Lighting Standards	-	
11. Utilities	-	
12. Joint Leakage	-	
13. Expansion Joints and Devices	-	
14. Record Elevations (if available) @ CL Brgs and Spans	-	
INSPECTOR'S CONDITION RATING	<u>4</u>	

59. SUPERSTRUCTURE

1. Bearing Devices	-	
2. Stringers	<u>4</u>	<u>CRACKING & LEACHING, SPALLING w/ EXP. REINF., DETERIORATION ALONG EDGES</u>
Lateral Support (<u>SLAB</u>)		
3. Girders/Beams	-	
Lateral Support ()		
4. Floor Beams	-	
Lateral Support ()		
5. Trusses - General	-	
Portals	-	
Bracing	-	
6. Paint	-	
7. Machinery (Movable Spans)	-	
8. Rivets or Bolts	-	
9. Welds - Cracks	-	
10. Rust	-	
11. Timber Decay	-	
12. Concrete Cracking	<u>4</u>	
13. Collision Damage	<u>4</u>	<u>RAILING</u>
14. Deflection Under Load	<u>7</u>	
15. Alignment of Members	-	
16. Vibration Under Load	<u>7</u>	
INSPECTOR'S CONDITION RATING	<u>4</u>	

CONDITION RATING

(Use for SIA items 58, 59, 60, 61, 62, 62)

Date: 4/11/2014
 City: CLEAR LAKE
 Bridge No. 5. 40TH STREET
 Street Name 5. 40TH ST.

- N Not Applicable
- 9 Excellent Condition
- 8 Very Good Condition - No problems noted.
- 7 Good Condition - Some minor problems.
- 6 Satisfactory Condition - Structural Elements show minor deterioration
- 5 Fair Condition - Primary structural elements have minor section loss, spalling, cracking or scour.
- 4 Poor Condition - Advanced section loss, deterioration, spalling or scour. Posting for some truck traffic is warranted.
- 3 Serious Condition - Primary structural elements affected by section loss, deterioration, cracking or scour. Posting for most truck traffic is warranted immediately.
- 2 Critical Condition - Advanced deterioration of concrete or steel and/or critical scour. Structure should be closed to all traffic.
- 1 "Imminent" Failure Condition - Major deterioration of structural elements. Structure is closed but corrective action may allow light service.
- 0 Failed Condition - Out of service and beyond repair.

ITEM	CONDITION RATING	REMARKS
60. SUBSTRUCTURE		
1. Abutments - Caps	-	
Wings	4	DETERIORATION
Backwall	4	SPALLING w/ EXP. REINF.
Footing	-	
Piles	-	
Erosion	6	
Settlement	-	
2. Piers or Bents - Caps	-	
Columns	-	
Footings	-	
Piles	-	
Scour	-	
Settlement	-	
3. Pile Bents	-	
4. Concrete Cracking	4	
5. Steel Corrosion	4	
6. Timber Decay	-	
7. Debris on Seats	-	
8. Paint	-	
9. Collision Damage	-	

INSPECTOR'S CONDITION RATING 4

61. CHANNEL CHANNEL PROTECTION		
1. Channel Scour	6	
2. Embankment Erosion	6	DOWNSTREAM
3. Drift	8	
4. Vegetation	7	
5. Channel Change	-	
6. Fender System	-	
7. Spur Dikes and Jetties	-	
8. Riprap	-	
9. Adequacy of Opening	6	MINOR SILT
10. Channel Depth (Top of Deck to Streambed)	-	

INSPECTOR'S CONDITION RATING 6

62. CULVERT RETAINING WALLS		
1. Barrel - Concrete	-	
Steel	-	
Timber	-	
2. Headwall	-	
3. Cut-off Wall	-	
4. Adequacy	-	
5. Debris	-	

INSPECTOR'S CONDITION RATING N

City



VEENSTRA & KIMM, INC.
2800 Fourth Street SW, Suite 9 • Mason City, Iowa 50401-1596
641-421-8008 • 641-380-0313(FAX) • 877-241-8008(WATS)

APPLICATION FOR PAYMENT

PROJECT: **Northwest Water Tower Improvement**

ENGINEER: **Veenstra & Kimm, Inc.**

TO: **City of Clear Lake**

State of Texas
County of Tarrant

DATE OF APPLICATION: 06/25/14
APPLICATION NO.: 5

The undersigned certifs. that the work herein has been completed in accordance with the Contract Documents, that all amounts have been paid for items which previous Certificates for Payment were issued and payments received, and that the current amount is now due.

PERIOD FROM: 05/26/14 TO: 06/25/14

Application is made for Payment, as shown below, in connection with this Contract.

Landmark Structures I, L.P., Contractor

1665 Harmon Road; Fort Worth, TX 76177

By: *Aimee Hanei*
Aimee Hanei, Project Manager

TOTAL COMPLETED TO DATE	\$	<u>1,044,666.00</u>
STORED MATERIALS	\$	<u>0.00</u>
TOTAL COMPLETED & STORED	\$	<u>1,044,666.00</u>
RETAINAGE 5%	\$	<u>52,233.30</u>

Date: 06/25/14

Subscribed and sworn before me this

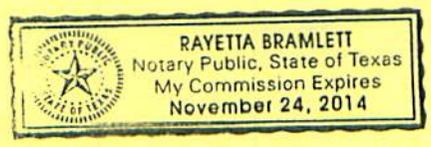
06/25/14
Rayetta Bramlett
T.B.A., Notary Public, State of Texas

TOTAL EARNED LESS RETAINAGE	\$	<u>992,432.70</u>
LESS PREVIOUS BILLINGS	\$	<u>453,257.35</u>
CURRENT PAYMENT DUE	\$	<u>539,175.35</u>

My commission expires 11-24-14

Reviewed: Veenstra & Kimm, Inc.

By: *T. A. Moreau* 7/10/14
Timothy A. Moreau, P.E.
Project Manager



Approved: **City of Clear Lake**

By: _____

Title: _____

5 PROGRESS BILLING

Owner: City of Clear Lake, IA
 Engineer: Veenstra & Kimm, Inc.
 Project: Northwest Water Tower Improvement Project

Period From: 05/26/14
 Period To: 06/25/14
 Landmark #: 1402 / AH

Item	Complete To Date			Complete Previous	Complete This Period	Balance to Finish
	Total	Percent	Amount			
1 1.0 MG Elevated Storage Tank	2,183,000.00					
General Administration						
Bonds and Insurance	66,870.00	100.00%	66,870.00	66,870.00		
Engineering / Design	75,600.00	100.00%	75,600.00	75,600.00		
Mobilize	40,000.00	50.00%	20,000.00	20,000.00		20,000.00
Site Work						
Rough Grading	21,900.00	39.00%	8,541.00	8,541.00		13,359.00
Erosion Control	12,000.00	42.00%	5,040.00	5,040.00		6,960.00
Temporary Security Fence	6,500.00	100.00%	6,500.00		6,500.00	
Storm Sewer	8,500.00					8,500.00
Watermain	21,900.00					21,900.00
Permanent Fence	18,800.00					18,800.00
Approach, Driveway and Parking	23,300.00	25.00%	5,825.00	5,825.00		17,475.00
Foundation	163,900.00	100.00%	163,900.00	163,900.00		
Support Pedestal						
Pedestal Lifts 1-2 and Tower / Scaff	155,100.00	100.00%	155,100.00	103,917.00	51,183.00	
Remaining Pedestal Lifts	420,600.00	100.00%	420,600.00		420,600.00	
Dome Floor	76,600.00	40.00%	30,640.00		30,640.00	45,960.00
Ladders and Landings	64,700.00					64,700.00
Steel Tank						
Ring Beam	78,900.00					78,900.00
Cone	167,200.00					167,200.00
Vertical Wall	142,300.00					142,300.00
Access Tube & Platform	69,350.00					69,350.00
Floor Plate	26,500.00					26,500.00
Steel Tank Hoist	72,000.00					72,000.00
Roof	40,300.00					40,300.00
Coatings						
Pre Hoist Painting	89,500.00					89,500.00
Post Hoist Painting	86,000.00					86,000.00
Mechanical						
Base Piping	24,000.00	100.00%	24,000.00	24,000.00		
Riser Piping	106,600.00	55.00%	58,630.00		58,630.00	47,970.00
Control Valves / Piping	14,800.00					14,800.00
Electrical / Controls	52,680.00					52,680.00
Finish Out						
Interior Fill	7,600.00	45.00%	3,420.00	3,420.00		4,180.00
Slab on Grade	8,500.00					8,500.00
Control Room	6,500.00					6,500.00
Doors	12,500.00					12,500.00
Tank Disinfection / Fill	1,500.00					1,500.00
Alt A Flood Lighting	21,000.00					21,000.00
Alt B Upgraded Painting Schedule	25,000.00					25,000.00
Current Contract Amount	\$2,229,000.00		\$1,044,666.00	477,113.00	\$567,553.00	\$1,184,334.00

5 PROGRESS BILLING

Owner: City of Clear Lake, IA
 Engineer: Veenstra & Kimm, Inc.
 Project: Northwest Water Tower Improvement Project

Period From: 05/26/14
 Period To: 06/25/14
 Landmark #: 1402 / AH

Item	Complete To Date			Complete Previous	Complete This Period	Balance to Finish
	Total	Percent	Amount			
Change Orders						
Total Change Orders						
Revised Contract Amount	\$2,229,000.00		\$1,044,666.00		\$567,553.00	\$1,184,334.00
Gross Amount Due			\$1,044,666.00	\$477,113.00	\$567,553.00	
Less Retainage (5%)			52,233.30	23,855.65	28,377.65	
Net Amount			<u>\$992,432.70</u>	<u>\$453,257.35</u>	<u>\$539,175.35</u>	
Less Previous Unpaid Billings						
Less Previous Paid Billings			<u>453,257.35</u>			
			<u>\$539,175.35</u>			
Weather Days Requested This Period			Current Billing		\$539,175.35	

RESOLUTION No. _____

A RESOLUTION FIXING THE DATE FOR A PUBLIC HEARING ON PLANS, SPECIFICATIONS, FORM OF CONTRACT & ESTIMATE OF COST, AND SETTING THE DATE FOR A BID LETTING ON THE PROPOSED WATER TREATMENT PLANT HIGH SERVICE PUMP IMPROVEMENT PROJECT FOR THE CITY OF CLEAR LAKE, IOWA AND FOR TAKING OF BIDS THEREFOR

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF CLEAR LAKE, IOWA:

That the "Water Treatment Plant High Service Pump Improvement Project" (hereinafter referred to as the "Project") is hereby ordered to be advertised for bids of construction.

BE IT FURTHER RESOLVED, that the detailed plans & specifications, as submitted for the Project, by Veenstra & Kimm, for the construction of the Project and the Form of Contract and Notice to Bidders, as approved by the Attorney, be and the same are hereby approved, subject to hearing thereon, and are hereby ordered placed on file in the Office of the City Clerk for public inspection.

BE IT FURTHER RESOLVED, that the amount of security to accompany each bid shall be in an amount, which shall conform to the provisions of the notice to bidders hereby approved as part of said specifications.

BE IT FURTHER RESOLVED, that the Clerk be and is hereby empowered and directed to publish notice to bidders once in the "Clear Lake Mirror Reporter", a legal newspaper, printed wholly in the English language, published at least once weekly, and having a general publication in this City. In accordance with Section 384.96 of the Code of Iowa, publication shall be not less than four (4) nor more than forty-five (45) clear days prior to August 13, 2014, which date is fixed as the date for receiving bids. Said bids are to be filed prior to 11:00 a.m. on said date.

In accordance with Section 384.100 of the Code of Iowa, bids shall be received and opened as provided in the public notice and the results of said bids shall be considered at the meeting of this City Council on August 18, 2014 at 6:30 p.m.

BE IT FURTHER RESOLVED, that, in accordance with Section 384.102 of the Code of Iowa, the Clerk is hereby empowered and directed to publish notice of hearing once in said newspaper, said publication to be not less than four (4) nor more than twenty (20) clear days prior to the date hereinafter fixed as the date for the public hearing on the plans, specifications, form of contract and estimate of costs for said project, said hearing to be held at 6:30 p.m. on August 18, 2014.

PASSED AND APPROVED this 21st day of July, 2014.

Nelson P. Crabb, Mayor

ATTEST:

Jennifer Larsen, City Clerk

NOTICE OF HEARING AND LETTING
NOTICE TO BIDDERS

NOTICE OF PUBLIC HEARING ON PROPOSED PLANS, SPECIFICATIONS, FORM OF CONTRACT AND ESTIMATE OF COST FOR THE CONSTRUCTION OF THE **WATER TREATMENT PLANT HIGH SERVICE PUMP REPLACEMENT PROJECT** FOR THE CITY OF CLEAR LAKE, IOWA, AND FOR THE TAKING OF BIDS THEREFOR

Sealed proposals will be received by the City Clerk of the City of Clear Lake, Iowa, in the Council Chambers at City Hall, 15 North Sixth Street, Clear Lake, Iowa, until 11:00 o'clock A.M. on the 13th day of August 2014, for the construction of the **Water Treatment Plant High Service Pump Replacement Project** as described in the plans and specifications therefore, now on file in the office of the City Clerk.

Proposals will be opened and the amount of the bids announced by the City Clerk at the time and date specified above.

Also, at 6:30 P.M. on the 18th day of August 2014, the City Council of said City will, in said Council Chambers, hold a hearing and said Council proposes to adopt plans, specifications, form of contract and estimate of cost.

At said hearing, the City Council will consider the proposed plans, specifications, form of contract and estimate of cost for the project, the same now being on file in the office of the City Clerk, reference to which is made for a more detailed and complete description of the proposed improvements, and at said time and place the said Council will also receive and consider any objections to said plans, specifications and form of contract or to the estimated cost of said improvements made by any interested party.

Also, at 6:30 P.M. on August 18, 2014, or at such time, date and places as then may be fixed, will act upon proposals and enter into a contract for the construction of said improvements.

The nature and extent of the improvements are as follows:

WATER TREATMENT PLANT HIGH SERVICE PUMP REPLACEMENT PROJECT

Project includes all labor, materials and equipment necessary to replace existing high service pumps including demolition work, high service pumps, process

pipng, valves, flow meter, instrumentation, electrical and miscellaneous associated work, including cleanup.

The method of construction of all improvements shall be by contract in accordance with the plans and specifications and general stipulations for said improvements approved by the City Council.

All proposals and bids in connection therewith shall be submitted to the City Clerk of said City on or before the time herein set for receiving bids. All proposals shall be made on official bidding blanks furnished by the City, and any alterations in the official form of proposal will entitle the City Council, at its option, to reject the proposal involved from consideration. Each proposal shall be sealed and plainly identified.

Each proposal shall be accompanied by a bid security in a sealed envelope by either (1) a certified or cashier's check drawn on a solvent Iowa bank or a bank chartered under the laws of the United States, or a certified share draft drawn on a credit union in Iowa or chartered under the laws of the United States, in an amount equal to 5% of the bid, or (2) a bid bond executed by a corporation authorized to contract as a surety in the State of Iowa, in the penal sum of 5% of the bid. Contractor shall determine amount of bid bond based on the amount of the base bid and all alternate construction bid items.

The bid security should be made payable to THE CITY OF CLEAR LAKE, IOWA. The bid security must not contain any conditions either in the body or as an endorsement thereon. The bid security shall be forfeited to the City as liquidated damages in the event the successful bidder fails or refuses to enter into a contract within 15 days after the award of contract and post bond satisfactory to the City insuring the faithful fulfillment of the contract and the maintenance of said work, if required, pursuant to the provisions of this notice and other contract documents. Bidders shall use the bid bond form included in the specifications.

Pursuant to Chapter 73 of the Code of Iowa, out of state bidders are hereby advised of the Iowa Bidding Preference Law extending to Iowa firms any preference out of state competitors receive in their own states. Such preference may be (a) strict preference, (b) reciprocal preference, or combination preference and reciprocal. Application for such preference will be extended for any "public improvement" as defined in Chapter 73A.1 of the Code of Iowa.

By virtue of statutory authority, a preference will be given to products and provisions grown and coal produced within the State of Iowa, and to Iowa domestic labor, to the extent lawfully required under Iowa Statutes.

The City reserves the right to reject any or all bids, to waive informalities or technicalities in any bid and to enter into such contract as it shall deem for the best interest of the City.

The City reserves the right to defer acceptance of any proposal for a period not to exceed forty-five (45) calendar days from the date of hearing.

The successful bidder will be required to furnish a bond in an amount equal to one hundred (100) percent of the contract price, said bond to be issued by a responsible surety approved by the City Council and listed in the U.S. Treasury Department's most current list (Circular 570, as amended) and authorized to transact business in the State of Iowa and shall guarantee the faithful performance of the contract and the terms and conditions therein contained and shall guarantee the prompt payment for all materials and labor to all persons, firms, subcontractors, and corporations furnishing materials for or performing labor in the prosecution of the work and protect and save harmless the City from claims and damages of any kind caused by the operations of the Contractor, and shall guarantee the work against faulty workmanship and materials for a period as required by the specifications after its completion and acceptance by the City Council.

It is anticipated Notice to Proceed will be issued by no later than December 1, 2014. Work for the project shall be substantially completed and the pumps shall be operational by no later than April 17, 2015. All work for the project shall be finally completed and the project ready for final acceptance by April 30, 2015.

Bidders shall be expected to comply with Chapters 91C and 103A of the Code of Iowa concerning the registration and bonding of construction contractors and the successful bidder shall be required to supply the City of Clear Lake with proof of said compliance.

Payment of the cost of said project will be made from any one or a combination of the following sources at the sole discretion of the City Council: (1) cash from Water Revenue Fund; (2) cash derived from the proceeds of the issuance and sale of General Obligation Bonds of said City; (3) cash from such general funds of said

City as may be legally used for such purpose; (4) funds generated from tax increment financing.

Payment will be made to the Contractor based on monthly estimates in amounts equal to ninety-five (95) percent of the contract value of the work completed. Monthly estimates will be made by the Engineer and payment will be made to the Contractor on or about ten (10) days thereafter. Payment shall be made for materials stored on site. Final payment will not be made sooner than thirty (30) days following Final Acceptance of the Work by the City of Clear Lake.

At least ten (10) days before each progress payment falls due (but not more often than once a month), the Contractor will submit to the Engineer a partial payment estimate filled out and signed by the Contractor covering the work performed during the period covered by the partial payment estimate and supported by such data as the Engineer may reasonably require. If payment is requested on the basis of materials and equipment not incorporated in the work but delivered and suitably stored at or near the site, the partial payment estimate shall also be accompanied by such supporting data, satisfactory to the Owner, as will establish the Owner's title to the material and equipment and protect his interest therein, including applicable insurance. The Engineer will, within fifteen (15) days after receipt of each partial payment estimate, either indicate in writing his concurrence of payment and present the partial payment estimate to the Owner, or return the partial payment estimate to the Contractor indicating in writing his reasons for refusing to concur with the partial payment estimate. In the latter case, the Contractor may make the necessary corrections and resubmit the partial payment estimate. The Owner will, within thirty (30) days of presentation to City Council of a submitted partial payment estimate, pay the Contractor a progress payment on the basis of the approved partial payment estimate. The Owner shall retain five (5) percent of the amount of each payment until final completion and acceptance of all work covered by the contract documents.

The bidder's attention is called to the prompt payment of the subcontractors, under Chapter 573.12 of the Code of Iowa.

Liquidated damages in the amount of Five Hundred Dollars (\$500) per calendar day will be assessed for each calendar day that work on the total project, or portions of the contract where specific completion dates are specified or otherwise agreed to, that remain uncompleted after the end of the contract period, with due allowance for extensions of the contract period due to conditions beyond the control of the contractor.

The Contractor will indemnify and save the Owner or the Owner's agents harmless from all claims growing out of the lawful demands of subcontractors, laborers, workmen, mechanics, materialmen, and furnishers of machinery and parts thereof, equipment, tools, and all supplies, incurred in the furtherance of the performance of the work. The Contractor shall furnish satisfactory evidence that all obligations of the nature designated above have been paid, discharged, or waived. If the Contractor fails to do so the Owner may, after having notified the Contractor, either pay unpaid bills or withhold from the Contractor's unpaid compensation a sum of money deemed reasonably sufficient to pay any and all such lawful claims until satisfactory evidence is furnished that all liabilities have been fully discharged whereupon payment to the Contractor shall be resumed, in accordance with the terms of the contract documents, but in no event shall the provisions of this sentence be construed to impose any obligations upon the Owner to either the Contractor, his Surety, or any third party. In paying any unpaid bills of the Contractor, any payment so made by the Owner shall be considered as a payment made under the contract documents by the Owner to the Contractor and the Owner shall not be liable to the Contractor for any such payments made in good faith.

Prior to substantial completion, the Owner, with the approval of the Engineer and with the concurrence of the Contractor, may use any completed or substantially completed portions of the work. Such use shall not constitute an acceptance of such portions of the work. The Owner shall have the right to enter the premises for the purpose of doing work not covered by the contract documents. This provision shall not be construed as relieving the Contractor of the sole responsibility for the care and protection of the work, or the restoration of any damaged work except such damage as may be caused by agents or employees of the Owner.

Upon completion and acceptance of the work, the Engineer shall issue a certificate that the work has been accepted by him under the conditions of the contract documents. Final payment will be made not less than thirty-one (31) days after completion of the work and acceptance by the City subject to the conditions and in accordance with the provisions of Chapter 573 of the Code of Iowa.

The City will issue a sales tax exemption certificate applicable for all materials purchased for the project.

Plans and specifications governing the construction of the proposed improvements have been prepared by VEENSTRA & KIMM, INC. of Mason City, Iowa, said plans and specifications and the prior proceedings of the City Council referring to and defining said proposed improvements are hereby made a part of this notice and the proposed contract by reference, and the proposed contract shall be executed to comply therewith.

Copies of said plans and specifications and form of contract are now on file in the office of the City Clerk and may be examined at City Hall. The ENGINEER shall make available and distribute plans and specifications in accordance with Senate File 2389. Complete sets of the Bidding Documents may be obtained from ENGINEER at the ENGINEER'S office located at 2800 Fourth Street SW, Suite 9, Mason City, Iowa 50401 upon payment of plan deposit in the sum of Fifty Dollars (\$50.00) This payment is refundable upon return of the bidding documents within fourteen (14) days after award of the project in good reusable condition. If the contract documents are not returned in a timely manner and in good reusable condition, the deposit shall be forfeited to the City of Clear Lake. Plan deposit checks shall be made out to the City of Clear Lake.

Bidders who request bidding documents be mailed or shipped to them shall designate a mailing address and pay shipping / mailing costs in the amount of \$10.00 for standard USPS mail delivery or normal UPS ground deliver. Any special shipping / mailing requests will be at bidders cost. Checks for shipping / mailing shall be made out to Veenstra & Kimm, Inc.

This notice is given by order of the Council of the City of Clear Lake, Iowa.

CITY OF CLEAR LAKE

Nelson Crabb, Mayor

ATTEST:

Jennifer Larsen, City Clerk

**WATER TREATMENT PLANT HIGH SERVICE PUMP REPLACEMENT PROJECT
CLEAR LAKE, IOWA**

PROJECT COSTS

The project costs are summarized in the Table below and organized by construction divisions to minimize areas that would be missed. The costs do reflect recent bidding activities. If the contractor has limited risk for the completion date and can work during winter weather, the project will be more attractive and could result in a better bidding response.

Cost Estimate – High Service Pump Installation

Division	Description	Cost
Division 1 – General	Mobilization, bond, insurance, etc.	\$22,000
Division 2 – Demolition	Pump, piping removals	\$10,000
Division 3 – Concrete	Pump bases, grout, restoration, replace opening in clear well	\$12,000
Division 4 – Masonry	None	\$0
Division 5 – Misc. Metals	Access hatch, demolition for saw cut opening	\$7,500
Division 6 – Wood, Plastics	Minor work effort	\$500
Division 7 – Thermal, Moisture Protection	Caulking	\$500
Division 8 – Doors	None	\$0
Division 9 – Coatings	Painting piping, valves, equipment, and miscellaneous other items	\$12,500
Division 10 – Specialties	None	\$0
Division 11 – Equipment Installed	High service pumps (2), sump pump	\$75,000
Division 12 – Furnishings	None	\$0
Division 13 – Special Construction	Inside process piping, valves, fittings	\$65,400
Division 14 – Conveying	Minor, lift eye	\$2,000
Division 15 – Mechanical	HVAC	\$0
Division 16 – Electrical	VFD (2) and controls, wiring, connections, reconnect 2 pumps, lights and receptacles	\$155,000
Division 17 –Instrumentation	Programming, systems integration, control devices, miscellaneous	<u>\$75,000</u>
CONSTRUCTION SUBTOTAL		\$437,400
PROFIT AND OVERHEAD (10%)		\$43,700
TOTAL ESTIMATED CONSTRUCTION		\$481,100
 ENGINEERING – DESIGN & CONSTRUCTION MANAGEMENT		 \$71,300
TOTAL PROJECT COST		\$552,400

Note: City Council budgeted \$550,000 between FY14 & FY15



VEENSTRA & KIMM, INC.

2800 Fourth Street SW, Suite 9 • Mason City, Iowa 50401-1596
641-421-8008 • 641-380-0313(FAX) • 877-241-8008(WATS)

Jason Petersburg, P.E.
April 14, 2014
Project No. 383132

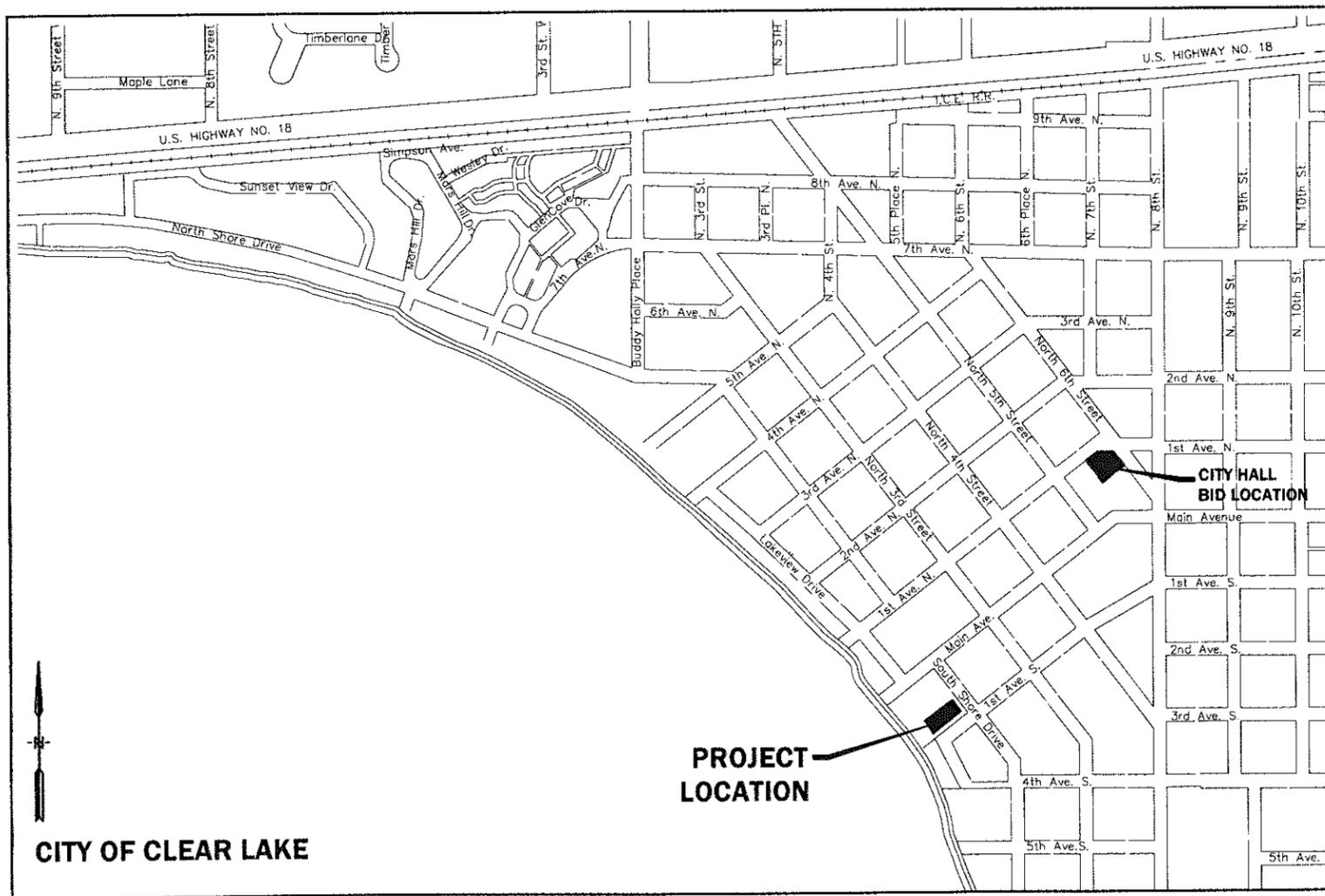
Project Schedule
Water Treatment Plant High Service Pumps Replacement Project
City of Clear Lake

<u>Task</u>	<u>Date</u>
Review Project Scope and Preliminary Plans with City Council	April 21, 2014
Submit Preliminary Plans to IDNR	April 30, 2014
Final Design Phase	
Electrical Design Site Visit	May 6, 2014
Controls Integration Meeting	May 6, 2014
Final Plans & Specifications Complete	June 20, 2014
Submit Final Plans & Specifications to IDNR	June 20, 2014
City Council Sets Date for Public Hearing and Bid Letting	July 21, 2014
Bid Letting	August 13, 2014
Public Hearing on Plans, Specification, Form of Contract, and Estimate of Cost	August 18, 2014
Contract Award	August 18, 2014
Approve Contract & Bond	September 2, 2014
Begin Construction*	December 1, 2014
Substantial Completion 1948 Clearwell Side	February 2, 2015
Substantial Completion 1972 Clearwell Side	April 17, 2015
Complete Construction	April 30, 2015

* Construction scheduled for low water demand period. Project is good inside winter project for contractors.

PLANS FOR WATER TREATMENT PLANT HIGH SERVICE PUMP REPLACEMENT PROJECT CLEAR LAKE, IOWA

X-REFS: I:\WORKSPACE\PUBLIC\VEENSTRA & KIMM\CLIENTS\MUNICIPAL\CLEAR LAKE\PROJECT FILES\WATER TREATMENT PLANT HIGH SERVICE PUMP REPLACEMENT PROJECT\383132 - 383135\DRAWINGS\PRODUCTION\GENERAL\01\01.DWG PLOTTED: Monday, June 30, 2014 9:54:07 AM



VICINITY MAP
NOT TO SCALE



CITY COUNCIL

- JIM BOEHNKE
- DANA BRANT
- MIKE CALLANAN
- GARY HUGI
- TONY NELSON

CITY OFFICIALS

- MAYOR: NELSON CRABB
- CITY ADMINISTRATOR: SCOTT FLORY
- CITY CLERK: JENNIFER LARSEN
- PUBLIC WORKS DIRECTOR: JOE WEIGEL
- WATER SUPERINTENDENT: GREG FARWELL



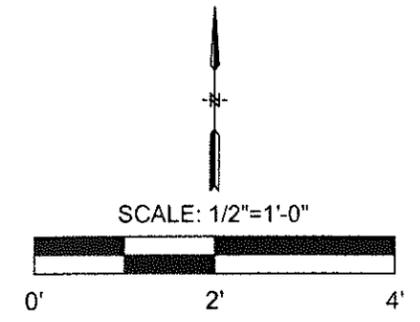
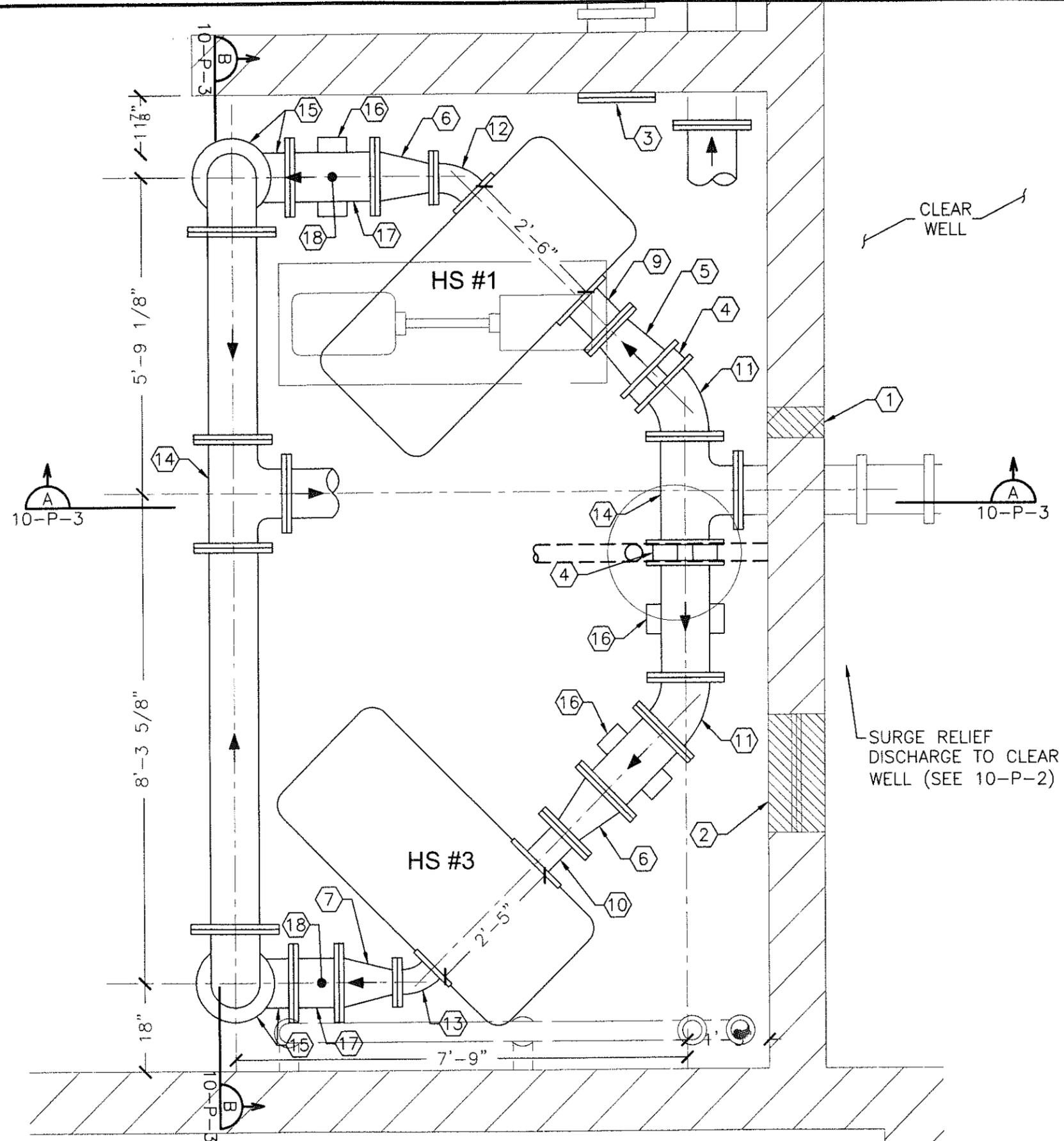
I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

SIGNATURE: _____
 NAME: MARK A. SEIP
 DATE: XX-XX-XXXX
 MY LICENSE RENEWAL DATE IS DECEMBER 31, 2014
 PAGES COVERED BY THIS SEAL: XX - XX
XX - XX



DATE	REVISIONS	SCALE	AS NOTED	VERIFY SCALE	V&K	WATER TREATMENT PLANT HIGH SERVICE PUMP REPLACEMENT PROJECT CITY OF CLEAR LAKE, IOWA	COVER	DWG. NO. 01-G-1
		DRAWN	JAS	BAR IS ONE INCH ON ORIGINAL DRAWING.	VEENSTRA & KIMM, INC.	2800 Fourth Street SW • Suite 9 • Mason City, Iowa 50401-1596 641-421-8008 • 641-380-0313(FAX) • 877-241-8008(WATS)		PROJECT 383132
		CHECKED	MAS	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.				
		APPROVED	MAS					
		DATE	2/3/14					
		ISSUED FOR						

X-REFS: BASE, EXISTING & BASE, PROPOSED & MECHANICAL - Xref
 FILE PATH: \\VKMCSVR\PUBLIC\VEENSTRA & KIMM\CLEAR LAKE\PROJECT FILES\WATER TREATMENT PLANT HIGH SERVICE PUMP REPLACEMENT PROJECT\1981312 - 383135\DRAWINGS\PRODUCTION\PROCESS\10-P-1.DWG



GENERAL NOTES:

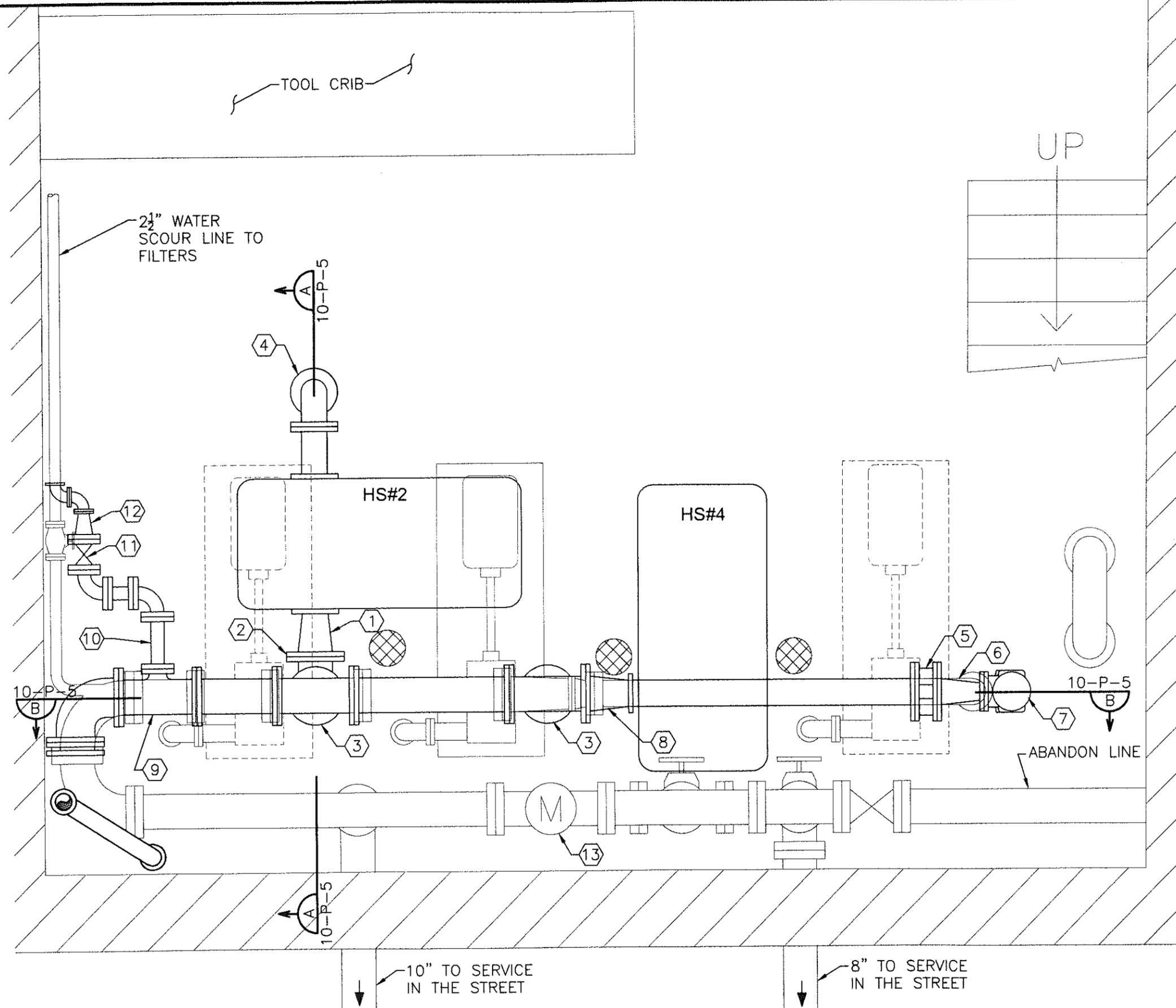
1. LAYOUT FOR HS#3 BASED UPON F-M MODEL 1824 AND AURORA PUMP MODEL 410. ANY CHANGE FROM THAT WILL IMPACT PIPING LAYOUT AND WILL BE THE CONTRACTORS RESPONSIBILITY.

KEY NOTES:

- ① UNDERWATER FLOODLIGHT TO BE REMOVED AND HOLE PLUGGED PER STRUCTURAL.
- ② REMOVE WINDOW & FRAME ROUGHLY 2'X3' AND PLUG HOLE PER STRUCTURAL.
- ③ 12" BLIND FLANGE WHERE PIPING WAS REMOVED.
- ④ 10" BV - WAFER STYLE
- ⑤ 10"X8" REDUCER
- ⑥ 10"X6" REDUCER
- ⑦ 10"X5" REDUCER
- ⑧ 8"X6" REDUCER
- ⑨ 8" DISMANTLING JOINT (RESTRAINED)
- ⑩ 6" DISMANTLING JOINT (RESTRAINED)
- ⑪ 10" 45° ELBOW
- ⑫ 6" 45° ELBOW
- ⑬ 5" 45° ELBOW
- ⑭ 10" TEE
- ⑮ 10" 90° ELBOW
- ⑯ SEE DETAIL 495
- ⑰ SPOOL PIECE
- ⑱ TAP FOR GAUGE CONNECTION PER DETAIL 427

DATE	REVISIONS	SCALE AS NOTED	VERIFY SCALE DRAWN JAS CHECKED APPROVED DATE ISSUED FOR	 VEENSTRA & KIMM, INC.	WATER TREATMENT PLANT HIGH SERVICE PUMP REPLACEMENT PROJECT CITY OF CLEAR LAKE, IOWA <small>3000 Westown Parkway • West Des Moines, Iowa 50266-1320 515-225-7848 • 515-255-7848(FAX) • 800-241-8000(WATS)</small>	PROPOSED 1972 HS PUMP #1, #3	DWG. NO. 10-P-1 <small>PROJECT 383132</small>
-------------	------------------	--------------------------	---	--------------------------------------	---	-------------------------------------	--

X-REFS: BASE, EXISTING & BASE, PROPOSED & MECHANICAL - Xref
 FILE PATH: \\V\K\MSV\PUBLIC\VEENSTRA & KIMM\CLEAR LAKE\MUNICIPAL\CLEAR LAKE\PROJECT FILES\WATER TREATMENT PLANT HIGH SERVICE PUMP REPLACEMENT PROJECT\383132 - 383132\DRAWINGS - PRODUCTION\PROCESS\10-P-4.dwg, Monday, June 30, 2014 10:01:49 AM



GENERAL NOTES:

1. REMOVALS ARE OCCURRING ON TOP DECK OF THE 1948 CLEAR WELL. TAKE CARE TO PROTECT THE DECK.
2. PIPE SEAL EATER DRAIN LINES TO FLOOR DRAIN.
3. PROVIDE NEW COVERS ON FLOOR DRAINS.

KEY NOTES:

- ① 6"x8" REDUCER
- ② FLANGE FILLER IF NEEDED
- ③ REMOVE 8" WYE AND REPLACE WITH 8" TEE
- ④ 6" LR 90° BEND WITH FOOT VALVE BELOW
- ⑤ 6" BV WAFER STYLE
- ⑥ 6"x4" REDUCER
- ⑦ 4" GOLDEN ANDERSON SURGE RELIEF ANGLE VALVE. PIPE REDUCED VENT LINE TO DISCHARGE OVER FLOOR DRAIN.
- ⑧ 8"x6" REDUCER
- ⑨ 8"x8"x4" TEE, SAME LENGTH AS 8" TEE
- ⑩ 4" FW 4" (DIP)
- ⑪ 4" BUTTERFLY VALVE
- ⑫ 4"x2 1/2" REDUCER
- ⑬ 8" MAGNETIC FLOW METER

DATE	REVISIONS	SCALE	AS NOTED	VERIFY SCALE	WATER TREATMENT PLANT HIGH SERVICE PUMP REPLACEMENT PROJECT CITY OF CLEAR LAKE, IOWA	PROPOSED 1948 HS PUMP DISCHARGE PIPING	DWG. NO. 10-P-4
		DRAWN JAS		BAR IS ONE INCH ON ORIGINAL DRAWING.	VEENSTRA & KIMM, INC.	3000 Westown Parkway • West Des Moines, Iowa 50266-1320 515-225-7848 • 515-255-7848(FAX) • 800-241-8000(WATS)	PROJECT 383132
		CHECKED _____		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.			
		APPROVED _____					
		DATE _____					
		ISSUED FOR _____					

Mr. Mayor,

At last night's Park Board meeting (July 16th, 2014), the board voted to recommend either Linda Hopper or Ann Unsworth for replacement of outgoing member Amanda Korenberg. The board felt that both candidates were well qualified, and either would successfully represent a demographic of Clear Lake citizens which is currently under represented on the Park Board.

Thank you for your consideration of these applicants, and please let me know if you have any questions.

A handwritten signature in black ink, appearing to read "Randy Miller". The signature is fluid and cursive, with the first name "Randy" and the last name "Miller" clearly distinguishable.

Randy Miller

Director- Clear Lake Parks and Recreation

Boards and Commissions Application



15 N 6th St * P.O. Box 185 * Clear Lake, IA 50428 * 641-357-5267 (P) * 641-357-5711 (F) * www.cityofclearlake.com

LOPEZ ASHLEY RENÉE
Last Name First Name Middle Name

Residence: 309 Pine Brooke Dr Clear Lake IA 50428
Street Address City State Zip

Business: _____
Street Address City State Zip

(515) 229-9195 (541) 355-2217 a.lopez@clearlakebank.com
Home Telephone # Work/Message Telephone # E-Mail Address

Clear Lake Resident Since: 2013

Education: High School: Dallas Center Gimmes High School

College: Des Moines Area Community College

Trade School or other: _____

Employment Background: _____

see attached.

Civic Activities: _____

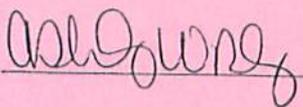
Indicate No More Than 3 Boards Or Commissions Interested In Serving:

- Library Board of Trustees
- Parks & Recreation Board
- Revolving Loan Fund Committee
- Planning & Zoning Commission
- Zoning Board of Adjustment
- Plumbing and Electrical Examining Board

Related Experience And Interests: See Attached

References:

<u>Kelli Enabnit</u>	<u>310 Pine Brooke Dr Clear Lake IA</u>	<u>414-425-6148</u>
Name	Address	Telephone
<u>Joanne Shannon</u>	<u>400 Pine Brooke Dr Clear Lake</u>	<u>414-512-0757</u>
Name	Address	Telephone
<u>Susan Finnegan</u>	<u>1421 Main Ave Clear Lake IA</u>	<u>414-357-4820</u>
Name	Address	Telephone

Signature: 

Date: 07-15-14

This application will remain in an active file for a period of one (1) year.

Employment Background:

08.2013 – Present	Clear Lake Bank & Trust Co.	Customer Service Representative
03.2013 – 08.2013	Cerro Gordo County Sheriff	911 Communications Officer
03.2012 – 03.2013	Wells Fargo Home Mortgage	Home Preservation Specialist
08.2011 – 03.2012	SumTotal Systems	HR Coordinator
01.2008 – 08.2011	DES Employment Group	Assistant Branch Manager

Related Experiences & Interests:

My husband and I currently reside in Clear Lake with our two daughters age 6 (Jaelan) and 5 months (Maya) and our two dogs Buster and Addie. My husband currently works for the State of Iowa as a Trooper based out of Cerro Gordo County which is what brought us to the area early last year. I currently work for Clear Lake Bank & Trust Co. as a Customer Service Representative. I love that the bank is very community oriented and I am looking to be more involved on a personal level. I am very interested in serving on the board as my daughter has participated in the youth activities provided by the Parks and Rec program. I feel these programs are extremely important in teaching our youth very valuable life lessons that they are able to use as they grow and would be honored to be a part of the development of these programs. Thank you in advance for your consideration!

Boards and Commissions Application



PHONE: 515-466-1851 FAX: 515-466-1852 CLEAR LAKE, IA 50428 CLEAR LAKE, IA 50428 WWW.CITYOFCLEARLAKE.COM

UNSWORTH Last Name ANNE First Name ESTHER Middle Name

Residence: 2405 S. LAKEVIEW CT. Street Address CLEAR LAKE IA City 50428 State 50428 Zip

Business: N/A Street Address City State Zip

(415) 357-5463 Home Telephone # (641) 529-1412 Work/Message Telephone # anneunsa@netins.net E-Mail Address

Clear Lake Resident Since: 2003

Education: High School: GRAND LEDGE, MI
College: HILLSDALE COLLEGE, HILLSDALE, MI
Trade School or other: _____

Employment Background: ADVERTISING ASSISTANT, MAGAZINE ADVERTISING COORDINATOR, EDITOR - WEEKLY NEWSPAPER, LIFE INSURANCE UNDERWRITING ASSISTANT

Civic Activities: CHARTER MEMBER, LIONS PRIDE LIONS CLUB
VOLUNTEER, SURF BALLROOM
FORMER MEMBER, FRIENDS OF THE LIBRARY BOARD

Indicate No More Than 3 Boards Or Commissions Interested In Serving:

- Library Board of Trustees
- Parks & Recreation Board
- Revolving Loan Fund Committee
- Planning & Zoning Commission
- Zoning Board of Adjustment
- Plumbing and Electrical Examining Board

Related Experience And Interests: OUR FAMILY ENJOYS THE OPPORTUNITIES
CLEAR LAKE'S PARKS OFFER. GRANDKIDS SPEND HOURS AT
CITY BEACH, PINE TREE PARK, CITY PARK. TERRY AND I HAVE
ENJOYED MANY EVENTS IN CITY PARK. I'D LIKE THE OPPORTUNITY
SUPPORT AND ENHANCE CLEAR LAKE'S MANY PARKS.

References:

<u>GREG + KATHY PETERSON</u>	<u>C.L.</u>	<u>GREG - 529-2532</u>
Name	Address	Telephone
		<u>KATHY - 529-0100</u>

<u>WAYNE + ELLEN CHERBROCK LING</u>	<u>C.L.</u>	<u>357-4594</u>
Name	Address	Telephone

<u>TRAVIS + GAIL ROBINSON</u>	<u>C.L.</u>	<u>357-5844</u>
Name	Address	Telephone

Signature: Anne Thsaworth

Date: 7/15/14

This application will remain in an active file for a period of one (1) year.

Boards and Commissions Application



15 N 6th St * P.O. Box 185 * Clear Lake, IA 50428 * 641-357-5267 (P) * 641-357-8711 (F) * www.cityofclearlake.com

Hopper Linda Ann
Last Name First Name Middle Name

Residence: 2416 N. Shaw Clear Lake IA 50428
Street Address City State Zip

Business: _____
Street Address City State Zip

641-357-3182 641-428-5336 lindaahopper@gmail.com
Home Telephone # Work/Message Telephone # E-Mail Address

Clear Lake Resident Since: 1978

Education: High School: Mesewey-Thornton
BS Dietetics Mayo and
College: FSU, U. of Minn - postgraduate

Trade School or other: _____

Employment Background: _____

Currently Registered Dietitian at Mercy
Dialysis Center

Past -/ Current Original owners Natural Plus

Nursery - currently still assist
them

Salilean Lutheran Church council and
pianist; Bible study group
Friendly Garden Club
North Star Photo Club

Indicate No More Than 3 Boards Or Commissions Interested In Serving:

- Library Board of Trustees
- Parks & Recreation Board
- Revolving Loan Fund Committee
- Planning & Zoning Commission
- Zoning Board of Adjustment
- Plumbing and Electrical Examining Board

Related Experience And Interests: _____

*Knowledge in trees, shrubs, planting
Enjoy photography - may be able to do
some park photography, etc.*

References:

Pasta Scot McCluskey Galilean
Name Address Telephone

Jack/Sandi Davis Clear Lake
Name Address Telephone

Amy Hogg Clear Lake
Name Address Telephone

Signature: *Linda Hoppe*

Date: *7/17/14*

This application will remain in an active file for a period of one (1) year.



2013 Polaris Ranger Crew 500 Specifications

Technical specs, prices, photos, ratings and reviews for the 2013 Polaris Ranger Crew 500. Buy a 2013 Polaris Ranger Crew 500 at a local motorcycle dealer.

Extras
Roof
Windshield
Beacon

\$9,500⁰⁰

Buyer's Guide > UTV > 2013 Polaris Ranger Crew 500



2013 Polaris Ranger Crew 500
MSRP \$10,299

Retail 10,500

Like One person likes this. Sign Up to see what your friends like.

8+1 0

The Polaris Ranger Crew 500 EFI is able to carry a crew of four people comfortably with extra legroom and with the slide through cab design you can get in and out quickly. 10 inches of ground clearance will help keep you from bottoming out while running over rough terrain. The 498cc four-stroke single cylinder engine has the electronic fuel injection which will allow for quick starts and adjusts for altitude.

This bike is not yet rated. Rate This Motorcycle

Specifications | User Ratings | Photos

Year	2013
Manufacturer	Polaris
Model	Ranger Crew 500
Engine Type	4-Stroke Single Cylinder
Engine Displacement	498cc
Bore & Stroke	NA
Compression Ratio	NA
Cooling	Liquid-Cooled
Fuel System	Electronic Fuel Injection
Ignition	Electronic
Starting System	Electric
Transmission	Automatic PVT H/L/N/R/P
Final Drive	Shaft
Rake and Trail	NA
Wheel Base	104 in.
Seat Height	NA
Front Suspension	MacPherson Strut 8" (20.3 cm) Travel
Rear Suspension	Dual A-Arm, IRS 9" (22.9 cm) Travel
Front Brake	4-Wheel Hydraulic Disc with Dual-Bore Front Calipers
Rear Brake	4-Wheel Hydraulic Disc with Dual-Bore Front Calipers
Front Tire	25 x 10-12; 489
Rear Tire	25 x 11-12; 489

2 hrs