City Engineer Report August 14, 2014

U.S. HIGHWAY 30 CORRIDOR IMPROVEMENTS:

The entire project is now open to through traffic. Finish grading and seeding on the Iowa Highway 1 intersection has been completed. A topographical survey has been completed by City staff in the northeasterly quadrant for the purpose of utility locations and sidewalk/trail design. Design work has been started on the trail.

U.S. HIGHWAY 30 BYPASS

Snyder and Associates are in the process of preparing plans for the U.S. Highway 30 Mount Vernon – Lisbon Bypass. Preliminary plans and design centerline alignment geometrics have been provided by the design engineer and City staff has transferred GIS coordinates into Iowa State Plane North coordinates and drafted onto a City Map.

City input in the design process:

Storm water management
Easement acquisition
City utility extension
Access locations

The Lisbon has confirmed acceptance of the East (Adams Avenue) interchange by not acting on a resolution to pursue a Sutliff Road interchange. This confirms that the U.S. Highway 30 bypass project is still in progress. There will be no access to U.S. Highway 30 from Highway 1 to the Adams Avenue interchange (3.4 miles). This will affect the long range planning discussions for the Southeast quadrant of the community, specifically the Oak Ridge area and Stoner Plaza area. This planning will affect street connection locations to Highway 1, area storm management design and street alignment.

Final design is now actively in progress. Right of way acquisition of whole parcel takings is in progress and the remaining parcel acquisitions will begin when IDOT defines the needed parcels.

At this juncture in the process, grading, storm structures, bridges, and paving are all programmed. The expected contract opening for grading, bridges and culverts would be in late summer of 2016 with construction in 2019 and 2020.

STREET PROJECTS:

SEVENTH STREET FROM EIGHTH Ave. NW TO FIFTH Ave. NW

The scope of the project design is:

Complete removal of the existing seal coat surface and P.C.C. curb & gutter

Core out existing natural subbase, compact, construct and construct a 6" drainable granular sub-base with longitudinal subdrain.

Replace existing 4" CIP Watermain with a new 8" PVC watermain, valves, and fire hydrants.

Construct a new 8" P.C.C. pavement with full 6" curb & gutter

Sidewalk replacement that is necessary due to grade adjustment and intersection replacement will be included in the project. Necessary sidewalk repairs not generated from this project will be left to the property owners.

Shop drawings have been submitted, reviewed, and returned to the contractor so that fabricated material may be put into production and other material may be ordered.

A neighborhood meeting has been scheduled for Thursday July 24th at the City Hall Council Chambers. A start date has not yet been scheduled.

FIFTH Ave. NW FROM FIRST St. W TO EIGHTH St. NW

A neighborhood meeting was held to discuss the project with homeowners within the construction area. Alliant Energy is in the process of moving power poles. Tree removal will soon begin.

A pre-construction conference has been scheduled for Wednesday August 20th at City Hall.

HMA RESURFACE

Field work has started for both the Fifth Avenue and Third Avenue HMA overlay projects

"WAGON PASS" REMOVAL FROM UNDERNEATH FIRST STREET WEST

Cast in place concrete box structure constructed in 1936 has deteriorated to the point that it needs to be removed. The plan of action is to saw the pavement on top of the structure, backfill the cavity with sand or similar compactable material, confine the backslopes with a compacted cohesive clay material and place new pavement over the backfill.

Discussions with adjacent property owners have been had to help determine a plan of action regarding the responsibility of replacing the structure, if any responsibility exists.

PIPE BURSTING OR DIRECTIONAL BORING FOR SEWER REPLACEMENT

Approximately 950 lineal feet of sanitary sewer has been designated for need of replacement apart from the 1,400 lineal feet of sanitary sewer designated to be televised as a part of the Seventh Street NW project. It has been determined that the most cost effective way to replace the 950 lineal feet would be by pipe bursting or directional boring. This would also be the least disruptive method in existing residential neighborhood areas.

The most cost effective remediation method for the sewer associated with the Seventh Street project will be determined upon review of the camera videos.

PEDESTRIAN CROSSING AT PALISADES ROAD AND IA HIGHWAY 1

Preliminary contact has been made with the IDOT at both the District 6 office and at the Office of Traffic and Safety in Ames.

FIRST AVENUE AND FIRST STREET SIGNAL REPLACEMENT AND INTERSECTION IMPROVEMENTS

Preliminary plans have been submitted to the District 6 office for review.

Permission has been granted from the District 6 office to pursue the installation of temporary Signals so the "Roll Out" type signals can be removed.

Mount Vernon
IOWA

Michael Beimer, City Administrator
Mark Winder, Chief of Police
Dan Boggs, P.E., City Engineer

Jim Moore, Mayor

Council:

Jamie Hampton
Marianne Taylor
Francesca Thompson
Bill Niemi
Eric Roudabush

August 11, 2014

Attn: Chad Lohrer
Iowa Department of Transportation
District 6 Office
5455 Kirkwood Blvd. SW
Cedar Rapids, Iowa 52404

RE: Intersection Signal Replacement and Intersection Improvements
IA Hwy 1 and First Street
Mount Vernon, Iowa

Mr. Lohrer

Attached you will find preliminary plans for the above referenced intersection improvements project. The general scope of the improvements is:

1. 4 new signals including 2 mast arm style mountings on the IA Hwy 1 approaches and pedestal style mount for the First Street approaches.
2. Pedestrian crossing accommodations on all four crossings. Painted crosswalks on IA Hwy 1 crossings and decorative P.C.C. brick paver crossings on the First Street Crossings.
3. Complete reconstruction of all four curb return pedestrian access areas to comply as close as possible to American With Disability Act requirements.

Jeff Morrow, P.E. of Anderson Bogert Engineers has been contracted to provide Engineering assistance in regards to the signal installation, the rest of the site work is being designed in-house.

Also attached is a cost estimate from Jeff Morrow which outlines the additional cost due to the two signal poles for which mast arm installation are required in replacement of the pedestal style mounted signals.

The estimated time table for accomplishing this work is to open bids in September or October of 2014 with construction to occur in the spring of 2015. It is anticipated that the lead time for signal pole material delivery will be 6 to 8 weeks.

We are still in the process of determining which amenities might be appropriate for this project, and how traffic control will be managed during construction.

Your involvement and guidance through this process has been very helpful. We look forward to a successful project.

Respectfully,

Daniel J. Boggs, P.E.
City Engineer

Cc: Michael R. Beimer, City Administrator
James R. Moore, Mayor

AUGUST 10, 2014

1ST AVENUE AND 1ST STREET TRAFFIC SIGNAL PROJECT
ESTIMATED PROJECT COST BREAKDOWN
PEDESTAL POLE INSTALLATION VERSUS MAST-ARM POLE INSTALLATION

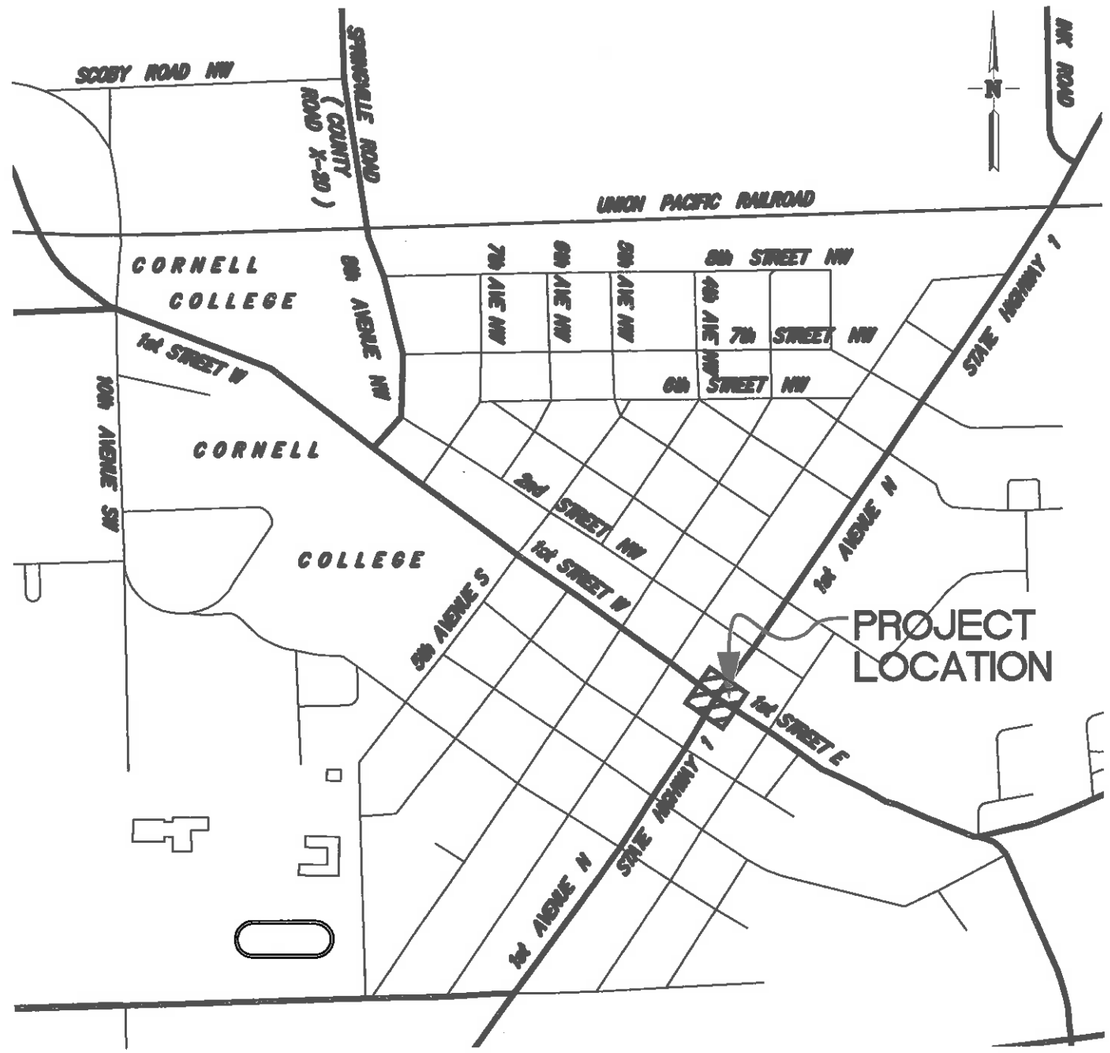
ITEM NO.	ITEM	UNIT	ESTIMATED PROJECT QUANTITIES: QUANTITIES PEDESTAL POLE	QUANTITIES MAST ARM POLE	UNIT PRICE PEDESTAL POLE	UNIT PRICE MAST ARM POLE	TOTAL COSTS PEDESTAL POLE	TOTAL COSTS MAST ARM POLE
1	SAFETY CLOSURE	EACH	4	4	$ 250.00	$ 250.00	$ 1,000.00	$ 1,000.00
2	RMVL OF TRAFFIC SIGNALIZATION (TEMPORARY SIGNAL)	LS	1	1	$ 2,500.00	$ 2,500.00	$ 2,500.00	$ 2,500.00
3	CONSTRUCTION SURVEY	LS	1	1	$ 1,000.00	$ 1,000.00	$ 1,000.00	$ 1,000.00
4	TRAFFIC CONTROL	LS	1	1	$ 3,000.00	$ 5,500.00	$ 3,000.00	$ 5,500.00
5	MOBILIZATION	LS	1	1	$ 15,000.00	$ 20,000.00	$ 15,000.00	$ 20,000.00
6	3-SECTION TRAFFIC SIGNAL HEADS	EACH	8	8	$ 1,500.00	$ 1,500.00	$ 12,000.00	$ 12,000.00
7	2-SECTION PEDESTRIAN HEADS	EACH	8	8	$ 1,000.00	$ 1,000.00	$ 8,000.00	$ 8,000.00
8	PEDESTRIAN PUSHBUTTONS	EACH	8	8	$ 500.00	$ 500.00	$ 4,000.00	$ 4,000.00
9	TRAFFIC SIGNAL HANDHOLES (24X36)	EACH	4	4	$ 1,500.00	$ 1,500.00	$ 6,000.00	$ 6,000.00
10	CONDUIT (2" PVC TRENCHED)	LF	39	39	$ 8.00	$ 8.00	$ 312.00	$ 312.00
11	CONDUIT (3" PVC TRENCHED)	LF	34	34	$ 12.00	$ 12.00	$ 408.00	$ 408.00
12	CONDUIT (4" PVC TRENCHED)	LF	20	20	$ 16.00	$ 16.00	$ 320.00	$ 320.00
13	WIRING (2c #14)	LF	1250	1130	$ 0.60	$ 0.60	$ 750.00	$ 678.00
14	WIRING (5c #14)	LF	2570	2097	$ 1.00	$ 1.00	$ 2,570.00	$ 2,097.00
15	WIRING (1c #8 - POWER)	LF	180	180	$ 0.60	$ 0.60	$ 108.00	$ 108.00
16	WIRING (1c #14 - TRACER)	LF	275	275	$ 0.40	$ 0.40	$ 110.00	$ 110.00
17	WIRING (1C #6 - GROUND)	LF	275	275	$ 0.50	$ 0.50	$ 137.50	$ 137.50
18	TRAFFIC SIGNAL PEDESTAL POSTS	EACH	4	2	$ 7,500.00	$ 7,500.00	$ 30,000.00	$ 15,000.00
19	TRAFFIC SIGNAL POLES WITH MAST ARMS	EACH	0	2	$ 15,000.00	$ 15,000.00	$ -	$ 30,000.00
20	OVERHEAD SIGNS (INSTALL ONLY)	EACH	0	2	$ 500.00	$ 500.00	$ -	$ 1,000.00
21	SIGNAL POLE BASE (11' X 3')	EACH	0	2	$ 3,000.00	$ 3,000.00	$ -	$ 6,000.00
22	PEDESTAL POLE BASE (3' X 2')	EACH	4	2	$ 1,200.00	$ 1,200.00	$ 4,800.00	$ 2,400.00
23	CONTROLLER BASE	EACH	1	1	$ 2,500.00	$ 2,500.00	$ 2,500.00	$ 2,500.00
24	CONTROLLER CABINET RISER	EACH	1	1	$ 2,500.00	$ 2,500.00	$ 2,500.00	$ 2,500.00
25	INSTALL TRAFFIC SIGNAL CONTROLLER/CABINET (OWNER FURNIS	EACH	1	1	$ 3,500.00	$ 3,500.00	$ 3,500.00	$ 3,500.00
	SUBTOTAL CONSTRUCTION						$ 100,515.50	$ 127,070.50
	Contingency (10%)						$ 10,051.55	$ 12,707.05
	TOTAL CONSTRUCTION (ROUNDED)						$ 110,600	$ 139,800

2014
PLAN OF PROPOSED IMPROVEMENTS FOR
SIGNAL REPLACEMENT AND INTERSECTION IMPROVEMENTS PROJECT
FIRST AVENUE (IA Hwy 1) AND FIRST STREET

INDEX OF DRAWINGS

1. COVER SHEET
2. CONTRACT QUANTITIES & BIDDING NOTES
3. GENERAL NOTES, SHEET LAYOUT & LEGEND
4. DEMOLITION PLAN
5. OVERALL SITE PLAN
6. SIDEWALK AND HANDICAP
7. SIDEWALK AND HANDICAP
8. DETAILS
9. DETAILS

N.01 WIRING DIAGRAM
N.02 TRAFFIC SIGNAL PLAN
N.03 QUANTITIES



LOCATION MAP

UTILITY AND EMERGENCY TELEPHONE NUMBERS
CITY OF MT. VERNON, IOWA

EMERGENCY – POLICE:	911
EMERGENCY – FIRE DEPT.:	911
CITY OF MT. VERNON	
ENGINEERING DEPARTMENT	(319)-895-0880
POLICE DEPARTMENT (NON-EMERGENCY)	(319)-895-6141
SEWER MAINTENANCE DEPARTMENT	(319)-895-8402
WATER DEPARTMENT	(319)-895-6818
BUSINESS	(319)-895-8742
UTILITIES	
IOWA ONE-CALL	(800)-292-8989 or 811
ELECTRIC & GAS	
ALLIANT ENERGY	(319)-455-1901 CONTACT: MICK BENNETT
LINN COUNTY R.E.C. (RURAL ELECTRIC COOPERATIVE)	(319)-377-1587
TELEPHONE	
AT&T	(319)-364-6111
CENTURY LINK (QWEST)	(319)-399-7408 CONTACT: KEVIN HERREN
NORTHWESTERN BELL	(319)-399-7495
CABLE	
MEDIACOM	
BUSINESS	(319)-395-9699
ENGINEERING	(319)-395-9699, ext 354 CONTACT: JOE ERNSTER

NOTES:
1. ALL WORK AND MATERIALS SHOWN ON THIS PLAN SHALL CONFORM TO THE CITY OF MOUNT VERNON STANDARD SPECIFICATIONS FOR STREET, WATER MAIN, SANITARY SEWER, AND STORM DRAIN CONSTRUCTION.

2. ALL WORK AND MATERIALS SHOWN ON THIS PLAN SHALL CONFORM TO THE CITY OF CEDAR RAPIDS METROPOLITAN AREA STANDARD SPECIFICATIONS FOR MUNICIPAL IMPROVEMENTS.

CITY ADMINISTRATION AND DEPARTMENTS
CITY OF MT. VERNON, IOWA

CITY ADMINISTRATOR:
MICHAEL R. BEIMER

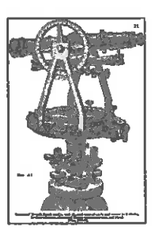
CITY CLERK:
SUE RIPKE

CITY ENGINEER:
DANIEL J. BOGGS, P.E.

MAYOR:
JAMES L. MOORE

MAYOR PRO TEM:
FRANCESCA THOMPSON

CITY COUNCIL:
JAMIE HAMPTON
MARIANNE TAYLOR
ERIC S. ROUDABUSH
WILLIAM J. NIEMI



CITY OF MOUNT VERNON
ENGINEERING

DANIEL J. BOGGS, P.E.
CITY ENGINEER

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.

Signed: Date:

Daniel J. Boggs, P.E. 11326
My license expires date [illegible] 31,

Sealed by this seal:
(Entire document unless otherwise noted)

LICENSED PROFESSIONAL ENGINEER DANIEL J. BOGGS 11326 IOWA

PRELIMINARY NOT FOR CONSTRUCTION

CAD File: C:\2014 Land Projects\2014 Signals PC\dwg\SIGNALCOVER.dwg Date Plotted : Aug 11, 2014 – 8:54am

SCALE: NONE	DRAWN BY: DJB				/ /
	CHECKED BY:				/ /
	APPROVED BY:				/ /
	DATE: 5/02/2014				/ /
PLOT DATE: Aug 11, 2014	FIELD BOOK:	NO.	REVISION DESCRIPTION	APPROVED	DATE

2014 SIGNAL REPLACEMENT AND INTERSECTION IMPROVEMENTS PROJECT
FIRST AVENUE (IA Hwy 1) AND FIRST STREET
Mt. VERNON, IOWA

COVER SHEET

CITY OF Mt. VERNON
CITY HALL
213 1st. STREET W.
Mt. VERNON, IOWA 52314
(319) 895-8742

SHEET 1 OF 12

BID ITEM		ITEM DESCRIPTION	ITEM UNIT	ESTIMATED QUANTITY
1.	01100-01	MOBILIZATION	L.S.	1
2.	01200-01	TRAFFIC CONTROL	L.S.	1
3.	01200-50	FLAGGERS	DAY	20
4.	01300-01	TEMPORARY EROSION AND SEDIMENT CONTROL	L.S.	1
5.	01400-10	REMOVAL OF EXISTING PAVEMENTS AND DRIVEWAYS	S.Y.	697
6.	01400-11	REMOVAL OF EXISTING SIDEWALKS	S.F.	3,277
7.	01400-22	SAWCUTTING OF PAVEMENT (FULL DEPTH)	L.F.	570
8.	02100-20	SUBGRADE STABILIZATION WITH CRUSHED ROCK MATERIAL	TON	200
9.	02100-30	ENGINEERING FABRIC SUBGRADE STABILIZATION (GEOGRID)	S.Y.	200
10.	02100-50	GRANULAR SUBBASE (MODIFIED)	S.Y.	838
11.	02500-01	WATERMAIN, AWWA C-900, 8"	L.F.	0
12.	02500-20	FURNISH AND INSTALL VALVE & BOX, 8" MJ, r/s	EACH	0
13.	02500-40	WATER SERVICES, 1"ø COPPER	EACH	3
14.	02500-41	WATER SERVICES RECONNECTION	EACH	3
15.	02500-50	FURNISH AND INSTALL FIRE HYDRANT	EACH	0
16.	02500-60	DISINFECTION AND HYDROSTATIC TESTING	L.S.	1
17.	02700-01	PORTLAND CEMENT CONCRETE PAVEMENT, NON REINFORCED, 10"	S.Y.	377
18.	02700-01	PORTLAND CEMENT CONCRETE PAVEMENT, NON REINFORCED, UNDER BRICK PAVERS, 10"	S.Y.	81
19.	02700-11	P.C.C. PAVERS ON CONCRETE BASE	S.F.	426
20.	02700-70	P.C.C. RETURN INFILL PAVEMENT (7")	S.Y.	3,421
21.	02700-70	PORTLAND CEMENT CONCRETE SIDEWALKS, 6"	S.F.	0
22.	02700-85	TRUNKATED DOME PANEL	S.F.	112
23.	02800-40	AGGREGATE SURFACING (TEMPORARY DRIVEWAY)	TONS	300
24.	02850-10	STOP BARS, POLYMER TAPE	EACH	4
25.	02850-10	PEDESTRIAN CROSS WALK, POLYMER TAPE	EACH	2
26.	02850-10	TRAFFIC SIGNALS, COMPLETE	L.S.	1

BID NOTES:

1. MEASUREMENT AND PAYMENT SHALL CONFORM TO SECTION 01025 OF THE CEDAR RAPIDS METROPOLITAN AREA STANDARD SPECIFICATIONS FOR MUNICIPAL IMPROVEMENTS.

2. MEASUREMENT AND PAYMENT SHALL CONFORM TO SECTION 01025 OF THE CEDAR RAPIDS METROPOLITAN AREA STANDARD SPECIFICATIONS FOR MUNICIPAL IMPROVEMENTS. TRAFFIC CONTROL PLAN SHALL BE SUBMITTED BY THE CONRACTOR TO THE ENGINEER FOR APPROVAL BY THE OWNER AND IOWA DEPARTMENT OF TRANSPORTATION PRIOR TO CONSTRUCTION.

3. MEASUREMENT AND PAYMENT SHALL CONFORM TO SECTION 01025 OF THE CEDAR RAPIDS METROPOLITAN AREA STANDARD SPECIFICATIONS FOR MUNICIPAL IMPROVEMENTS. PRICE SHALL INCLUDE COSTS FOR ALL BEST MANAGEMENT PRACTICES NECESSARY TO PROTECT CITY INFRASTRUCTURE INCLUDING INLET THROAT PROTECTION.

4. MEASUREMENT AND PAYMENT SHALL CONFORM TO SECTION 01025 OF THE CEDAR RAPIDS METROPOLITAN AREA STANDARD SPECIFICATIONS FOR MUNICIPAL IMPROVEMENTS. PRICE SHALL INCLUDE COSTS FOR ALL BEST MANAGEMENT PRACTICES NECESSARY TO PROTECT CITY INFRASTRUCTURE INCLUDING INLET THROAT PROTECTION.

5. MEASUREMENT AND PAYMENT SHALL CONFORM TO SECTION 01025 OF THE CEDAR RAPIDS METROPOLITAN AREA STANDARD SPECIFICATIONS FOR MUNICIPAL IMPROVEMENTS. PAVEMENT DISPOSAL AREA SHALL BE SECURED BY THE CONTRACTOR. PAYMENT WILL BE MADE ON PLAN QUANTITIES.

6. MEASUREMENT AND PAYMENT SHALL CONFORM TO SECTION 01025 OF THE CEDAR RAPIDS METROPOLITAN AREA STANDARD SPECIFICATIONS FOR MUNICIPAL IMPROVEMENTS. PAVEMENT DISPOSAL AREA SHALL BE SECURED BY THE CONTRACTOR. PAYMENT WILL BE MADE ON PLAN QUANTITIES.

7. MEASUREMENT AND PAYMENT SHALL CONFORM TO SECTION 01025 OF THE CEDAR RAPIDS METROPOLITAN AREA STANDARD SPECIFICATIONS FOR MUNICIPAL IMPROVEMENTS. PAYMENT WILL BE MADE ON FULL DEPTH STREET PAVEMENT CUTS MEASURED IN THE FIELD BY THE ENGINEER.

8. MEASUREMENT AND PAYMENT SHALL CONFORM TO SECTION 01025 OF THE CEDAR RAPIDS METROPOLITAN AREA STANDARD SPECIFICATIONS FOR MUNICIPAL IMPROVEMENTS. PAYMENT BE MADE ON ROCK LOAD TICKETS SUBMITTED TO THE ENGINEER. BID QUANTITIES ARE ESTIMATED FOR BIDDING PURPOSES.

9. MEASUREMENT AND PAYMENT SHALL CONFORM TO SECTION 01025 OF THE CEDAR RAPIDS METROPOLITAN AREA STANDARD SPECIFICATIONS FOR MUNICIPAL IMPROVEMENTS. PRODUCT SHALL BE TENSAR GEOGRID. PAYMENT IS ESTIMATED FOR BIDDING PURPOSES.

10. MEASUREMENT AND PAYMENT SHALL CONFORM TO SECTION 01025 OF THE CEDAR RAPIDS METROPOLITAN AREA STANDARD SPECIFICATIONS FOR MUNICIPAL IMPROVEMENTS.

11. MEASUREMENT AND PAYMENT SHALL CONFORM TO SECTION 01025 OF THE CEDAR RAPIDS METROPOLITAN AREA STANDARD SPECIFICATIONS FOR MUNICIPAL IMPROVEMENTS.

13. MEASUREMENT AND PAYMENT SHALL CONFORM TO SECTION 01025 OF THE CEDAR RAPIDS METROPOLITAN AREA STANDARD SPECIFICATIONS FOR MUNICIPAL IMPROVEMENTS. WATER SERVICE MATERIAL AND INSTALLATION SHALL CONFORM TO THE DETAIL ON SHEET 16/17 OF THESE PLANS

14. MEASUREMENT AND PAYMENT SHALL CONFORM TO SECTION 01025 OF THE CEDAR RAPIDS METROPOLITAN AREA STANDARD SPECIFICATIONS FOR MUNICIPAL IMPROVEMENTS.

15. MEASUREMENT AND PAYMENT SHALL CONFORM TO SECTION 01025 OF THE CEDAR RAPIDS METROPOLITAN AREA STANDARD SPECIFICATIONS FOR MUNICIPAL IMPROVEMENTS. FIRE HYDRANT MATERIAL AND INSTALLATION SHALL CONFORM TO THE DETAIL ON SHEET 16/17 OF THESE PLANS

16. MEASUREMENT AND PAYMENT SHALL CONFORM TO SECTION 01025 OF THE CEDAR RAPIDS METROPOLITAN AREA STANDARD SPECIFICATIONS FOR MUNICIPAL IMPROVEMENTS.

17. MEASUREMENT AND PAYMENT SHALL CONFORM TO SECTION 01025 OF THE CEDAR RAPIDS METROPOLITAN AREA STANDARD SPECIFICATIONS FOR MUNICIPAL IMPROVEMENTS. PAVEMENT THICKNESS SHALL BE 8". PAVEMENT MIX SHALL BE AN IOWA DEPARTMENT OF TRANSPORTATION CLASS C-4 MIX.

18. MEASUREMENT AND PAYMENT SHALL CONFORM TO SECTION 01025 OF THE CEDAR RAPIDS METROPOLITAN AREA STANDARD SPECIFICATIONS FOR MUNICIPAL IMPROVEMENTS. PAVEMENT THICKNESS SHALL BE 8". PAVEMENT MIX SHALL BE AN IOWA DEPARTMENT OF TRANSPORTATION CLASS C-4 MIX.

BID NOTES: (CONTINUED)

19. ALL CONSTRUCTION MATERIAL SHALL CONFORM TO SECTION 2710 IN THE SUPPLEMENTAL SPECIFICATIONS INCLUDED WITH THE PROJECT PLANS AND THE DETAIL SHOWN ON SHEET __ OF THESE PLANS. BID PRICES SHALL INCLUDE P.C.C. PAVER BRICK, ASPHALT SETTING BED AND SAND JOINTS. PAY AREA FOR THE BRICK PAVERS IS SHOWN ON THE DETAIL ON SHEET 16 OF THESE PLANS.

20. MEASUREMENT AND PAYMENT SHALL CONFORM TO SECTION 01025 OF THE CEDAR RAPIDS METROPOLITAN AREA STANDARD SPECIFICATIONS FOR MUNICIPAL IMPROVEMENTS. PAVEMENT THICKNESS SHALL BE 6". PAVEMENT MIX SHALL BE AN IOWA DEPARTMENT OF TRANSPORTATION CLASS C-4 MIX. MODIFIED STONE SUBBASE SHALL BE INCIDENTAL TO THE BID PRICE.

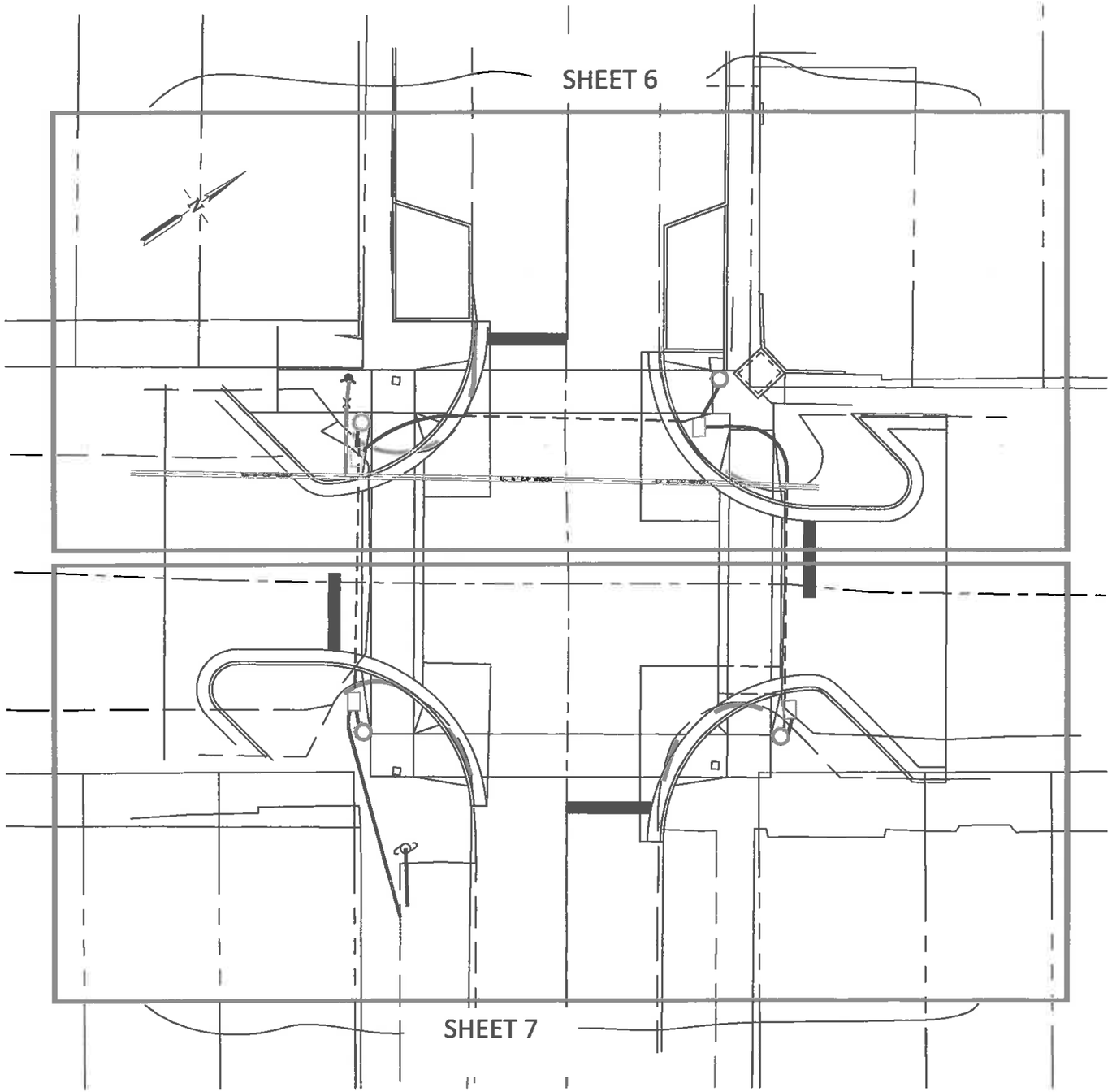
21. MEASUREMENT AND PAYMENT SHALL CONFORM TO SECTION 01025 OF THE CEDAR RAPIDS METROPOLITAN AREA STANDARD SPECIFICATIONS FOR MUNICIPAL IMPROVEMENTS. SIDEWALK PAVEMENT THICKNESS SHALL BE 6". PAVEMENT MIX SHALL BE AN IOWA DEPARTMENT OF TRANSPORTATION CLASS C-4 MIX. MODIFIED STONE SUBBASE SHALL BE INCIDENTAL TO THE BID PRICE.

22. MEASUREMENT AND PAYMENT SHALL CONFORM TO SECTION 01025 OF THE CEDAR RAPIDS METROPOLITAN AREA STANDARD SPECIFICATIONS FOR MUNICIPAL IMPROVEMENTS. CONSTRUCTION SHALL CONFORM TO THE DETAIL ON SHEET __ OF THESE PLANS.

23. TRUNCATED DOME PANELS SHALL BE PAID ON THE SQUARE FOOTAGE OF DOME PANEL INSTALLED AS MEASURED BY THE ENGINEER IN THE FIELD. CONSTRUCTION SHALL CONFORM TO THE DETAIL ON SHEET __ OF THESE PLANS.

24. MEASUREMENT AND PAYMENT SHALL BE MADE BY ROCK LOAD TICKETS SUBMITTED TO THE ENGINEER. PLAN QUANTITIES ARE ESTIMATED FOR BIDDING PURPOSES.

CAD File: C:\2014 Land Projects\2014 Signals PC\dwg\Signal-QTYS.dwg Date Plotted : Aug 11, 2014 - 8:59am



GENERAL NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF MOUNT VERNON STANDARD SPECIFICATIONS.

2. IOWA CODE 480, UNDERGROUND UTILITIES INFORMATION REQUIRES VERBAL NOTICE TO IOWA ONE CALL, 1-800-292-8989, NOT LESS THAN 48-72 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.

3. THE LOCATION OF ALL UTILITIES INDICATED ON THESE PLANS ARE TAKEN FROM EXISTING PUBLIC RECORDS OR FROM UTILITY MARKS IN THE FIELD. THE EXACT LOCATION AND ELEVATION OF ALL PUBLIC UTILITIES MUST BE DETERMINED BY THE CONTRACTOR TO DETERMINE WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLAN ARE PRESENT.

4. CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE CITY RIGHT-OF-WAY AND EASEMENTS PROVIDED. ALL TREES AND SHRUBS, UNLESS NOTED ON THE PLANS FOR REMOVAL SHALL BE PROTECTED AND SHALL REMAIN.

5. CONTRACTOR SHALL PROTECT EXISTING CONCRETE UNLESS NOTED FOR REMOVAL. DAMAGED CONCRETE SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

6. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL EXCAVATE AND EXPOSE EXISTING UTILITIES AS REQUIRED BY THE ENGINEER TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATION. NO ADDITIONAL PAYMENT OR COMPENSATION WILL BE GIVEN FOR THIS WORK.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ADJACENT PUBLIC STREETS FREE FROM EXCAVATED AND ERODED SOIL AND GRANULAR MATERIAL FROM THE PROJECT. THE CONTRACTOR SHALL CLEAN EXCESS SOIL AND OTHER MATERIAL FROM THE ADJACENT STREETS ON A DAILY BASIS.

8. EXISTING "STOP" SIGNS, STREET SIGNS, RAILROAD WARNING SIGNS, "SNOW ROUTE" SIGNS, AND COUNTY ROAD MARKER SIGNS, WILL BE PRESERVED AND/OR REPLACED AT THE DIRECTION OF THE CITY ENGINEER.

EROSION CONTROL NOTES:

POLLUTION PREVENTION PLAN

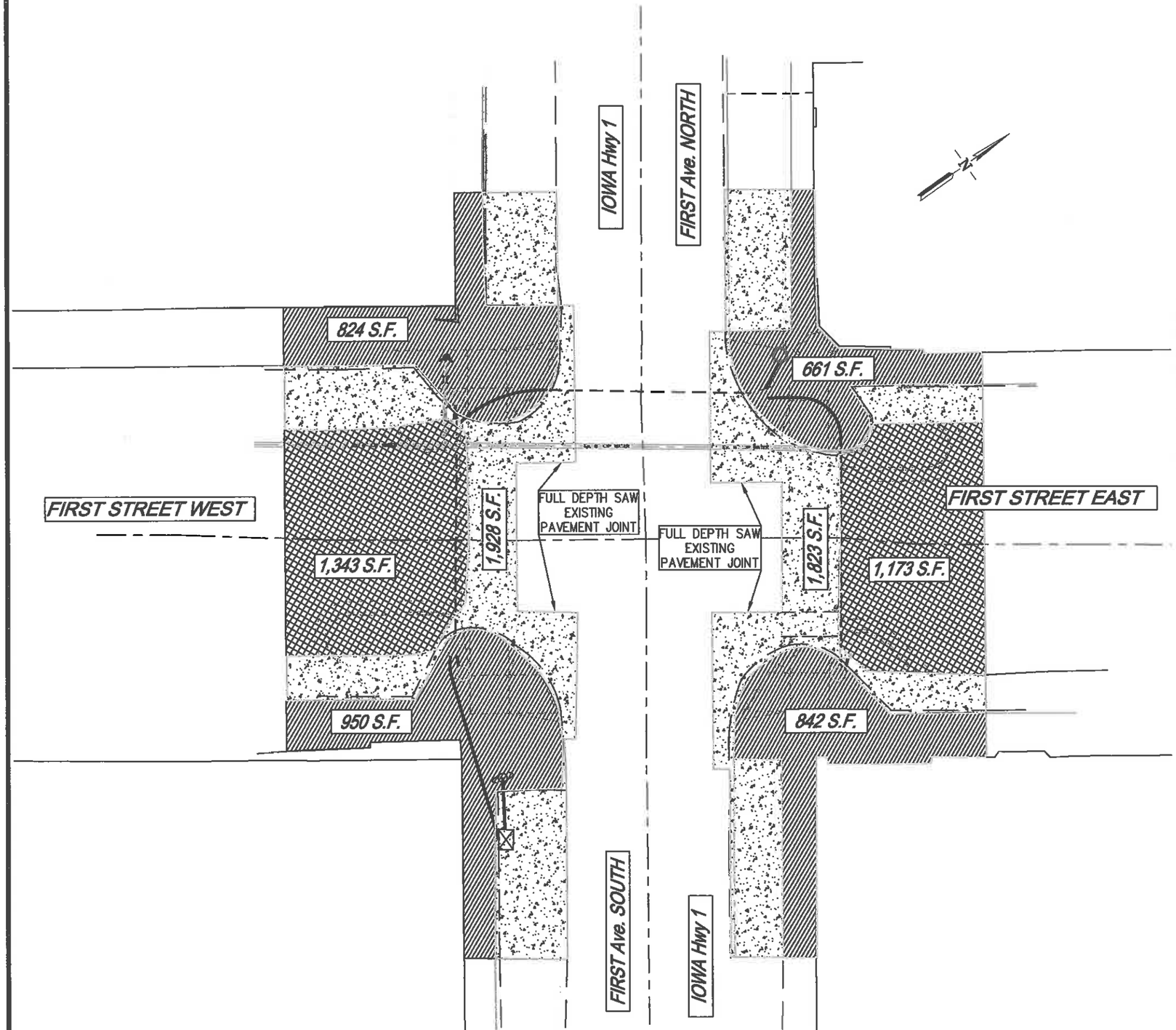
1. CONTRACTOR SHALL CONDUCT OPERATIONS IN A MANNER THAT MINIMIZES EROSION AND PREVENTS SEDIMENTS FROM LEAVING THE JOBSITE. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARATION, IMPLIMENTATION, AND COMPLIANCE OF THE POLLUTION PREVENTION PLAN (SWPPP) FOR THE ENTIRE PROJECT. THIS RESPONSIBILITY SHALL BE FURTHER SHARED WITH SUBCONTRACTORS WHOSE WORK IS A SOURCE OF POTENTIAL POLLUTION.

SURVEY CONTROL NOTES:

1. IT SHALL BE THE CONTRACTOR'S RESONSIBILITY TO PROTECT ALL SURVEY CONTROL. ALL NECESSARY REPAIR, OR RECONSTRUCTION OF EXISTING LINN COUNTY GPS CONTROL MONUMENTATION CAUSED BY THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

CAD File: C:\2014 Land Projects\2014 Signals PC\dwg\Signal-QTYS.dwg Date Plotted : Aug 11, 2014 - 9:00am

SCALE: 1"=20'	DRAWN BY: DJB				/ /	2014 SIGNAL REPLACEMENT AND INTERSECTION IMPROVEMT PROJECT FIRST AVENUE (IA Hwy 1) AND FIRST STREET	GENERAL NOTES SHEET LAYOUT LEGEND	CITY OF Mt. VERNON CITY HALL 213 1st. STREET W. Mt. VERNON, IOWA 52314 (319) 895-8742	SHEET 3 OF 12
	CHECKED BY:				/ /				
	APPROVED BY:				/ /				
	DATE: 8/04/14				/ /				
PLOT DATE: Aug 11, 2014	FIELD BOOK:	NO.	REVISION DESCRIPTION	APPROVED	DATE				



ASPHALT PAVEMENT	2,516 S.F.	280 S.Y.
CONCRETE PAVEMENT	3,751 S.F.	417 S.Y.
SIDEWALK	3,277 S.F.	

DEMOLITION NOTES:

1. PAVEMENT DISPOSAL SITE SHALL BE SECURED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. COST OF REMOVAL AND HAUL SHALL BE INCIDENTAL TO THE PAVEMENT REMOVAL BID ITEM.
2. WORK SHALL BE LIMITED TO 1 LANE OF IOWA HIGHWAY 1 TRAFFIC AT A TIME. (EITHER NE BOUND OR SW BOUND). BOTH LANES OF TRAFFIC SHALL REMAIN OPEN DURING PAVEMENT REMOVAL.
3. BOTH LANES OF EITHER FIRST STREET EAST OR FIRST STREET WEST MAY BE CLOSED AT ONE TIME DURING PAVEMENT REMOVAL.
4. EXISTING TEMPORARY TRAFFIC SIGNALS SHALL REMAIN OPERATIONAL DURING THE PAVEMENT REMOVAL PROCESS. ALL EFFORTS SHALL BE MADE BY THE CONTRACTOR TO MAKE SURE ALL SIGNALS ARE VISIBLE AT ALL TIMES.

CAD File: C:\2014 Land Projects\2014 Signals PC\dwg\Signal Demo.dwg Date Plotted : Aug 11, 2014 – 9:03am

SCALE: 1"=20' HORIZONTAL

PLOT DATE: Aug 11, 2014

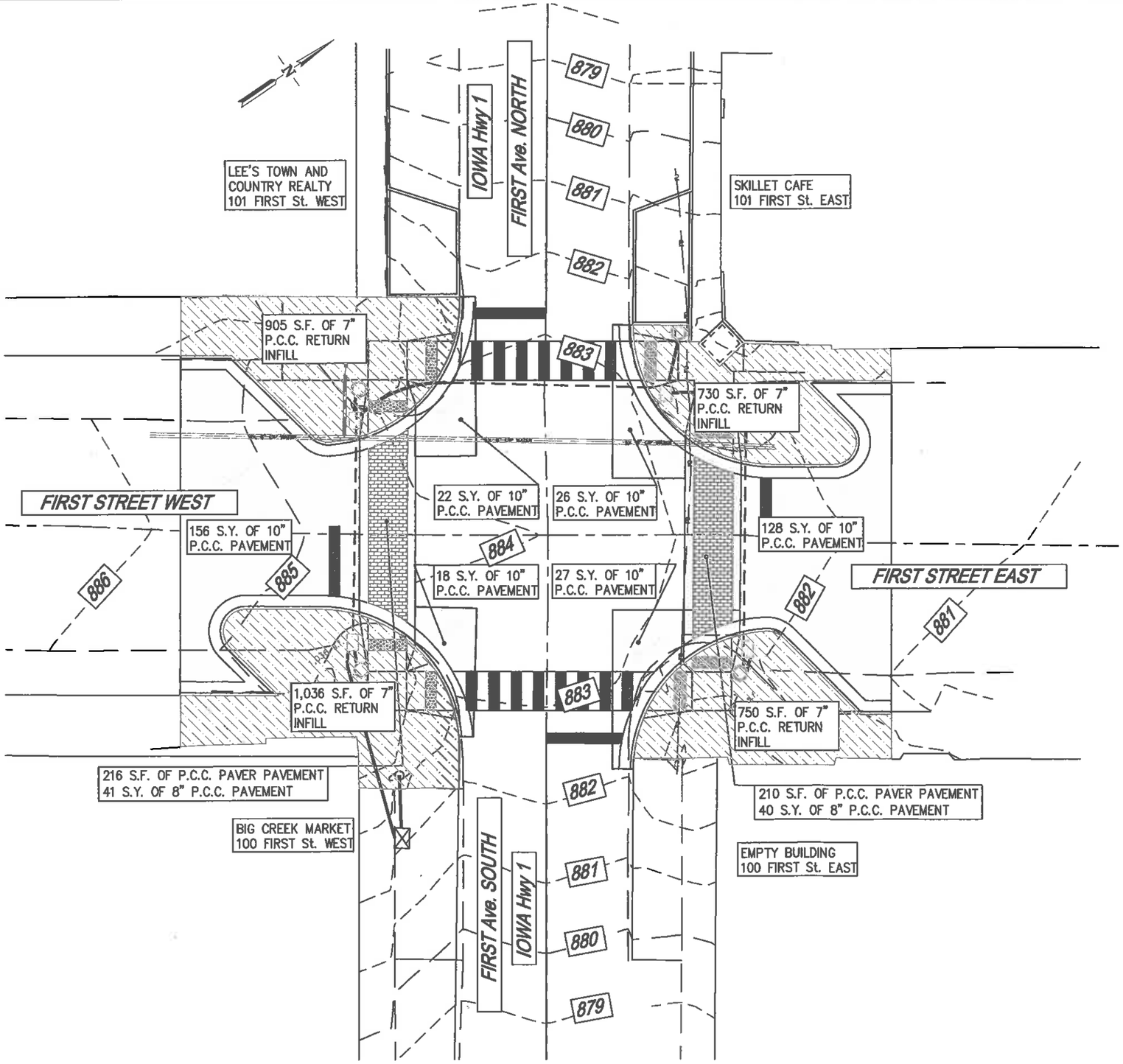
DRAWN BY: DJB					/ /
CHECKED BY:					/ /
APPROVED BY:					/ /
DATE: 12/24/08					/ /
FIELD BOOK:	NO.	REVISION DESCRIPTION		APPROVED	DATE

2014 SIGNAL REPLACEMENT AND INTERSECTION IMPROVEMENTS PROJECT
FIRST AVENEUE (IA Hwy 1) AND FIRST STREET

DEMOLITION PLAN

CITY OF Mt. VERNON
CITY HALL
213 1st. STREET W.
Mt. VERNON, IOWA 52314
(319) 895-8742

SHEET 4 OF 12



PAVEMENT QUANTITIES

GRANNULAR SUBBASE (MODIFIED) 6" DEPTH	838 S.Y.
P.C.C. PAVEMENT UNDER P.C.C. BRICK PAVERS (8")	81 S.Y.
P.C.C. PAVER BRICK PAVEMENT	426 S.F.
P.C.C. RETURN INFILL PAVEMENT (7")	3,421 S.F.
P.C.C. PAVEMENT (8")	377 S.Y.

CAD File: C:\2014 Land Projects\2014 Signals PC\dwg\Signal Base 2.dwg Date Plotted : Aug 11, 2014 - 11:05am

SCALE: 1"=20'

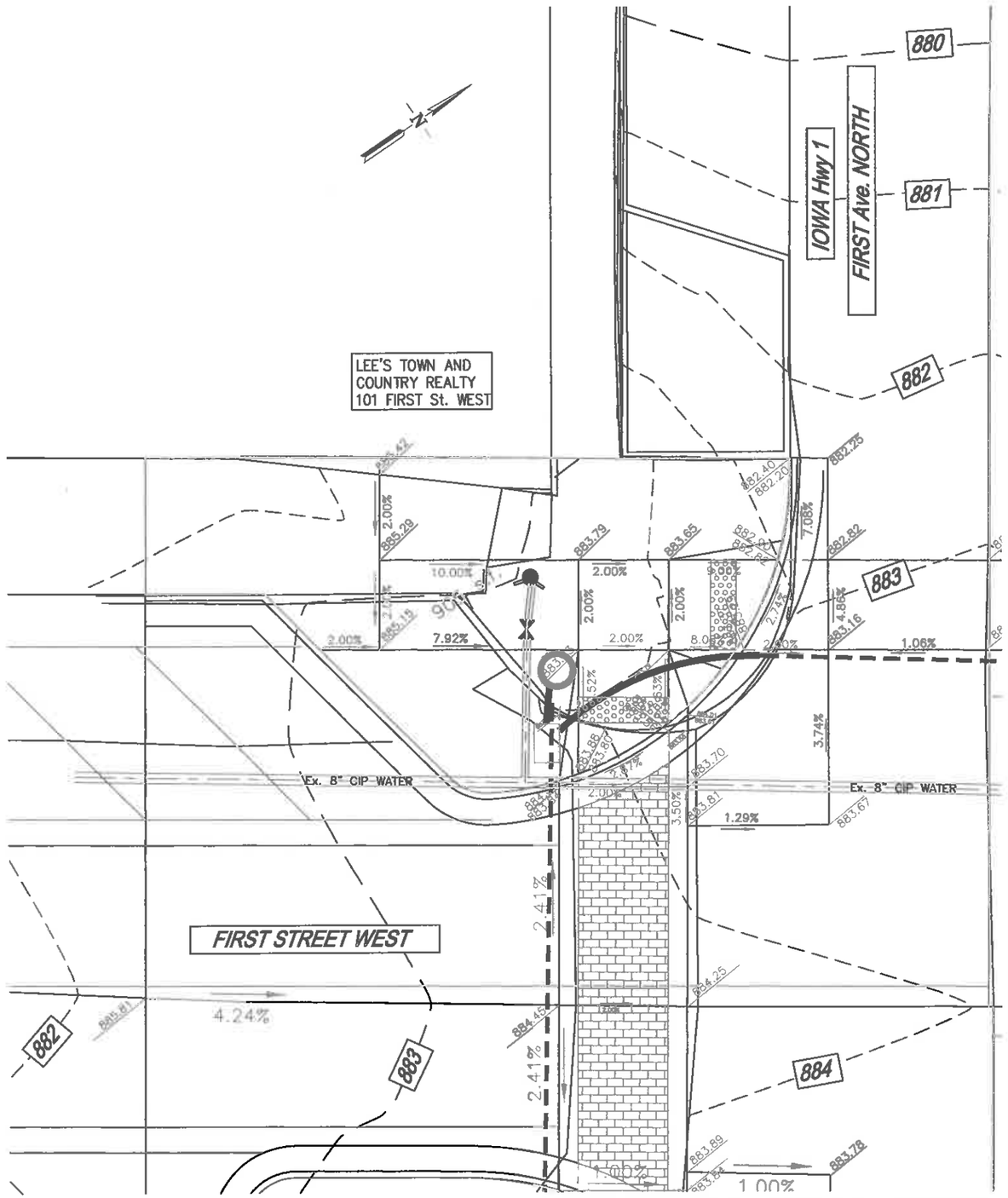
PLOT DATE: Aug 11, 2014

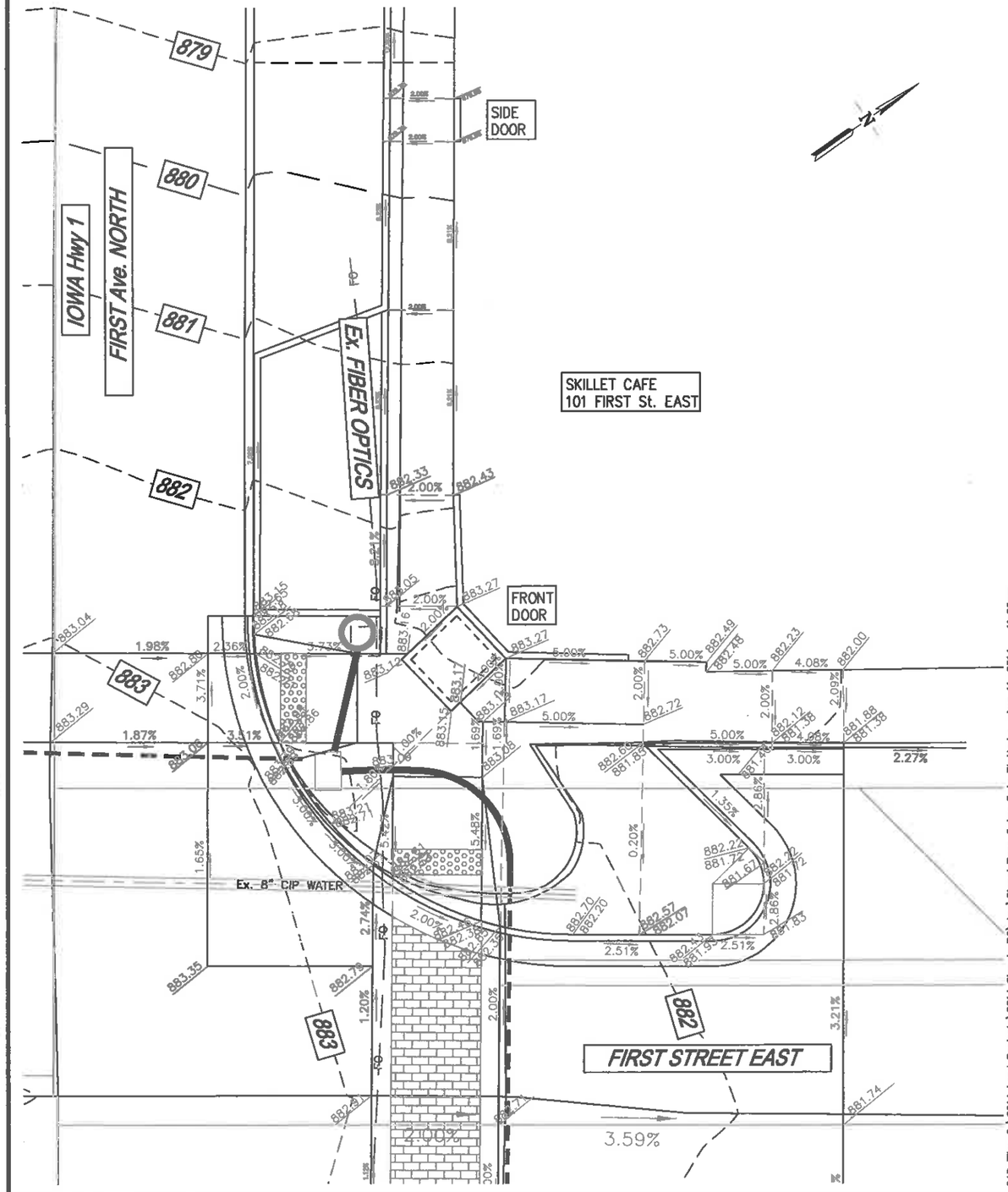
DRAWN BY: DJB				/ /
CHECKED BY:				/ /
APPROVED BY:				/ /
DATE: 8/04/14				/ /
FIELD BOOK:	NO.	REVISION DESCRIPTION	APPROVED	DATE

2014 SIGNAL REPLACEMENT AND INTERSECTION IMPROVEMT PROJECT
FIRST AVENUE (IA Hwy 1) AND FIRST STREET

OVERALL SITE PLAN

CITY OF Mt. VERNON
CITY HALL
213 1st. STREET W.
Mt. VERNON, IOWA 52314
(319) 895-8742





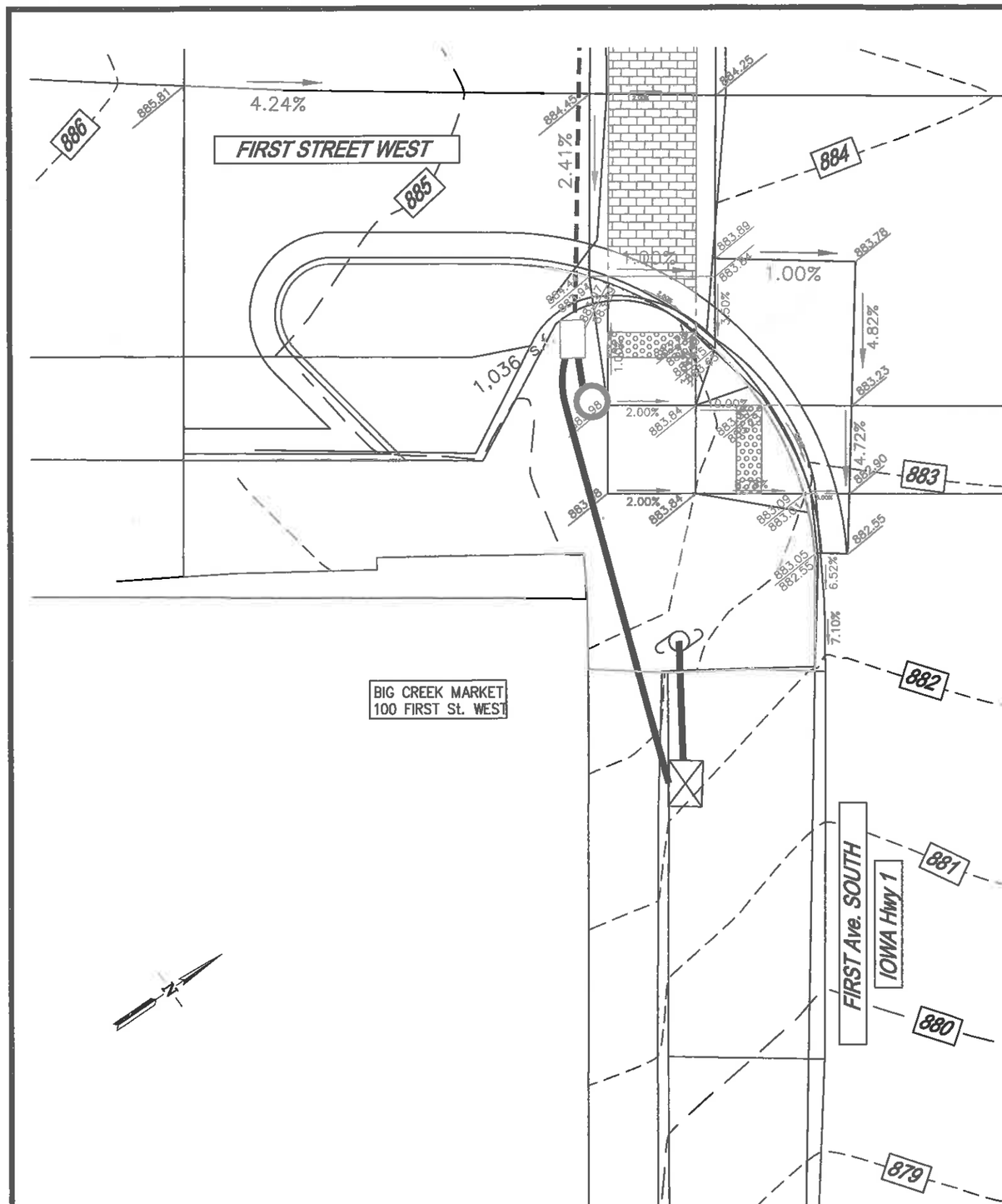
CAD File: C:\2014 Land Projects\2014 Signals PC\dwg\Signal Base 2.dwg Date Plotted : Aug 11, 2014 – 11:06am

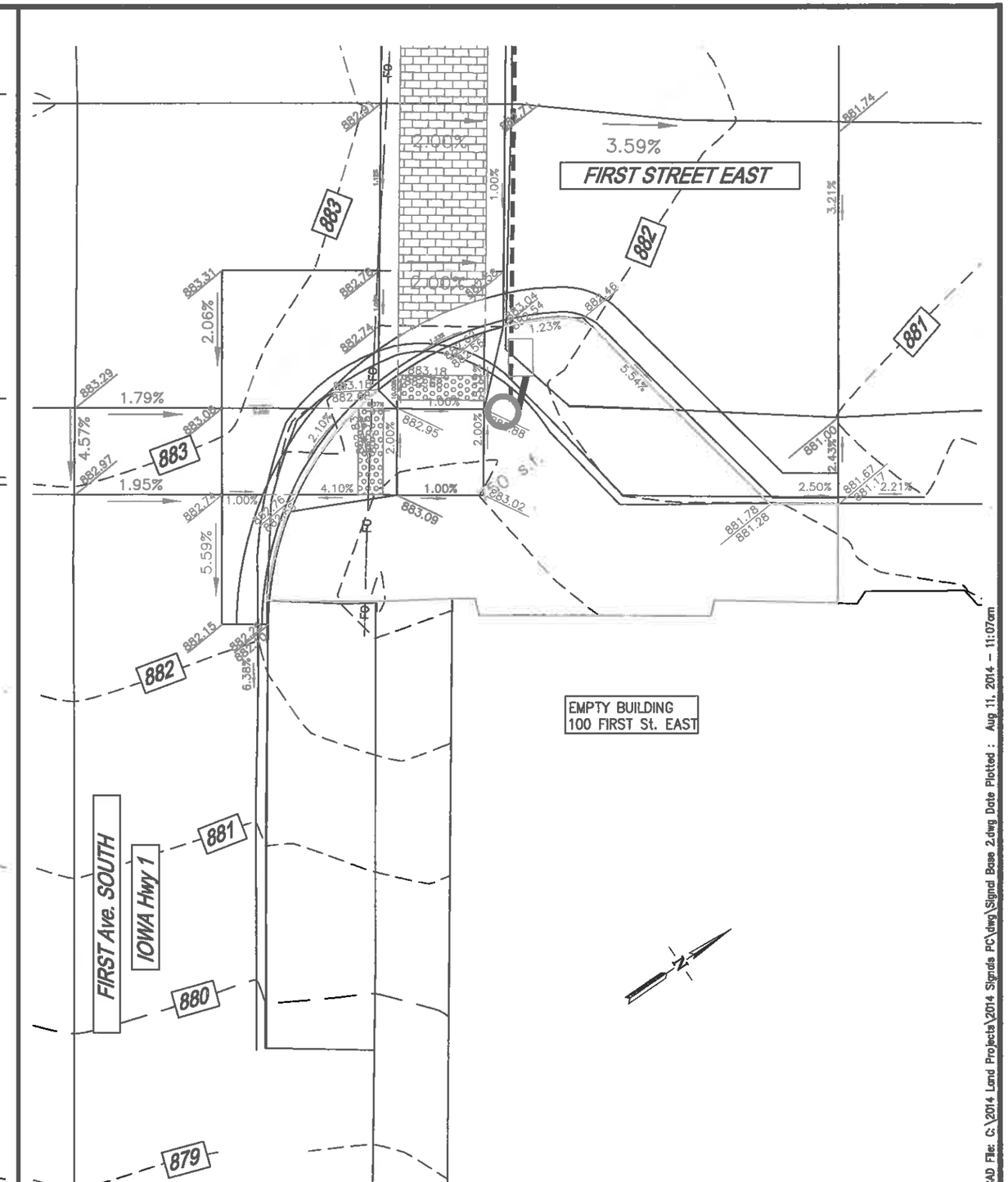
SCALE: 1"=10'	DRAWN BY: DJB				
	CHECKED BY:				
	APPROVED BY:				
	DATE: 8/04/14				
PLOT DATE: Aug 11, 2014	FIELD BOOK:	NO.	REVISION DESCRIPTION	APPROVED	DATE

2014 SIGNAL REPLACEMENT AND
INTERSECTION IMPROVEMT PROJECT
FIRST AVENUE (IA Hwy 1) AND FIRST STREET

NW Quadrant
NE Quadrant

CITY OF Mt. VERNON
CITY HALL
213 1st. STREET W.
Mt. VERNON, IOWA 52314
(319) 895-8742

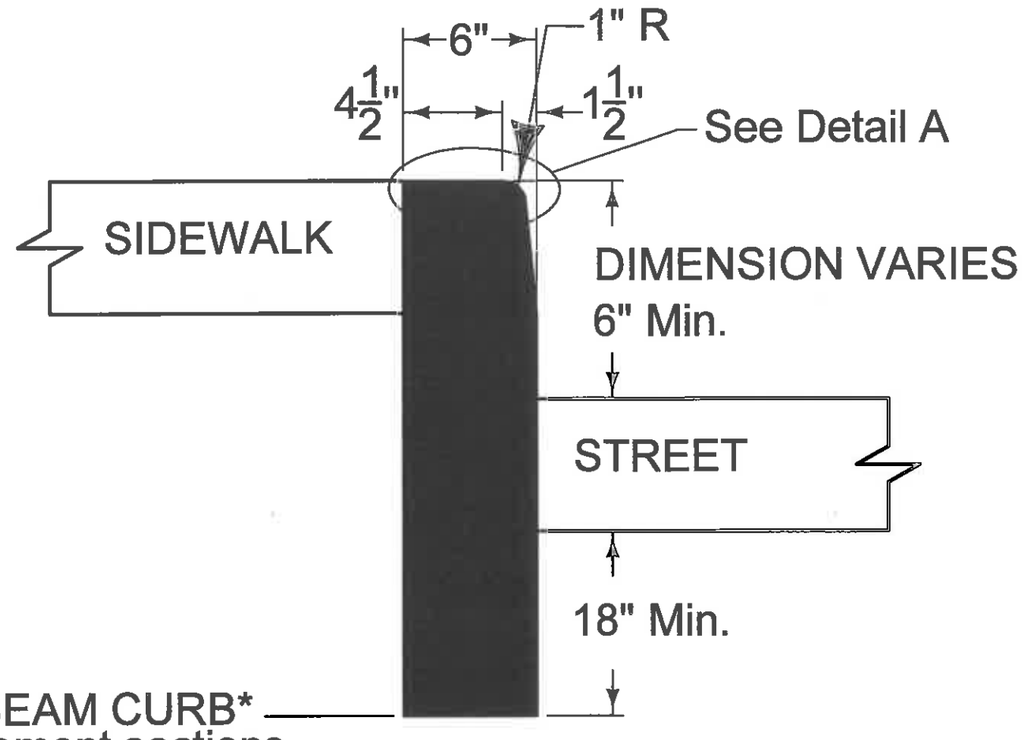




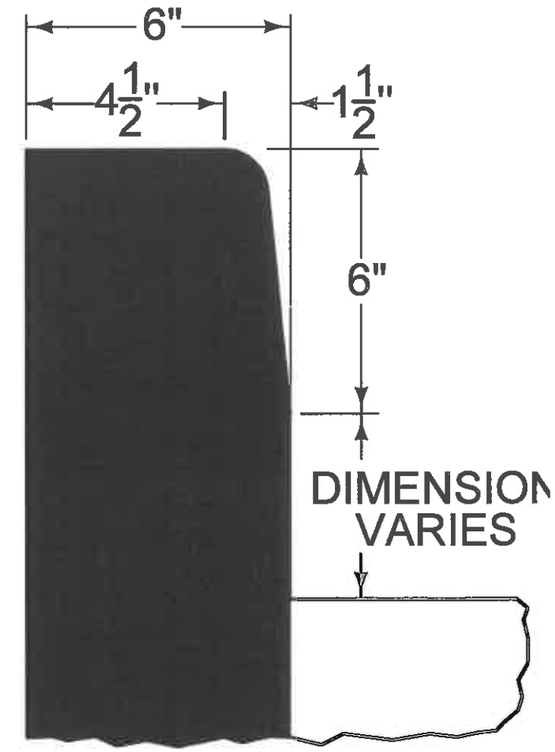
CAD File: G:\2014 Land Projects\2014 Signals PC\dwg\Signal Base 2.dwg Date Plotted : Aug 11, 2014 – 11:07am

SCALE: 1"=10'	DRAWN BY: DJB					2014 SIGNAL REPLACEMENT AND INTERSECTION IMPROVEMT PROJECT FIRST AVENUE (IA Hwy 1) AND FIRST STREET	SW Quadrant SE Quadrant
	CHECKED BY:						
	APPROVED BY:						
	DATE: 8/04/14						
PLOT DATE: Aug 11, 2014	FIELD BOOK:	NO.	REVISION DESCRIPTION	APPROVED	DATE		

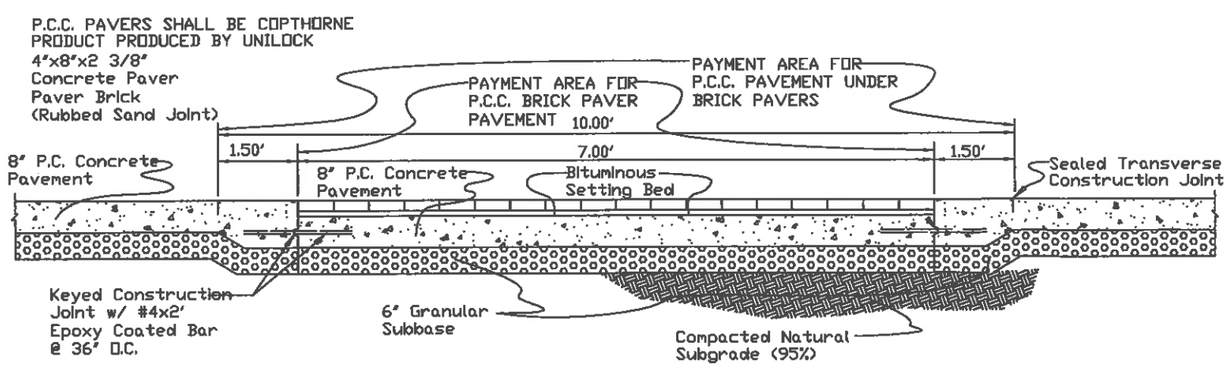
CITY OF Mt. VERNON
CITY HALL
213 1st. STREET W.
Mt. VERNON, IOWA 52314
(319) 895-8742



*For short replacement sections, match existing curb profile



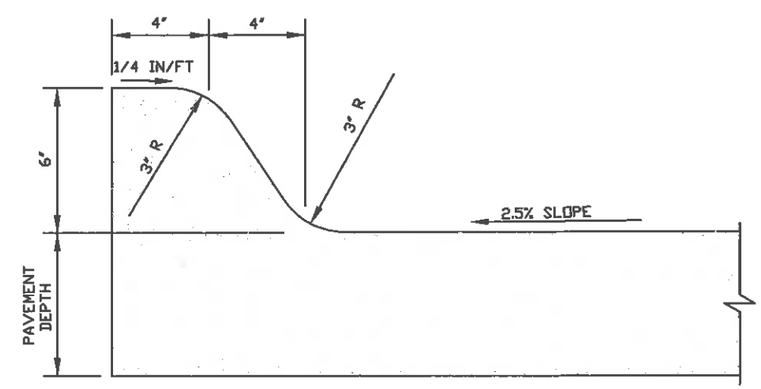
DETAIL A



TYPICAL PAVERS @ CROSS WALK

NO SCALE

11-089-DTL-PVMT-PAVERS.dwg



TYPICAL 6" CURB DIMENSIONS

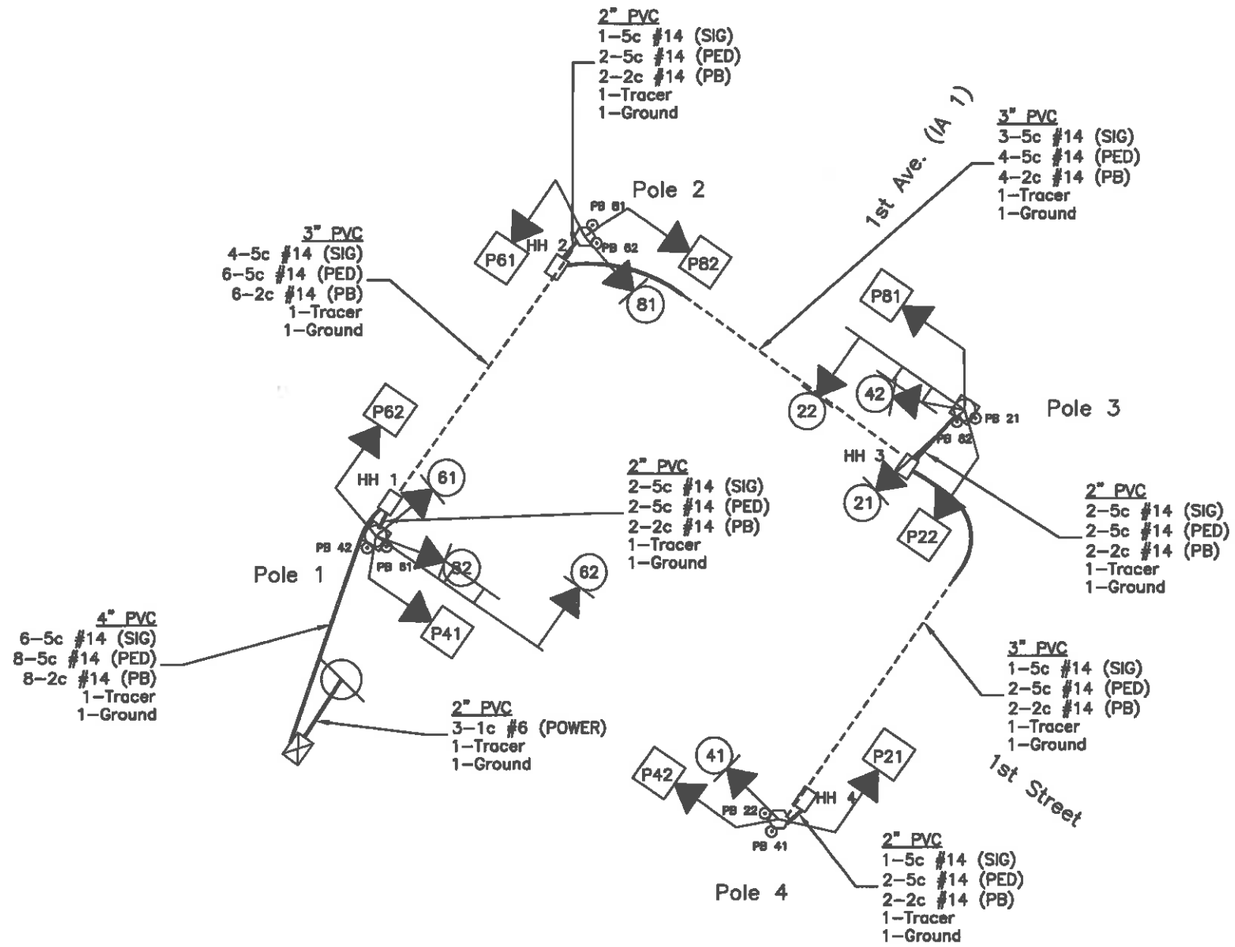
NO SCALE

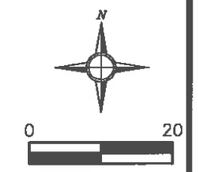
CAD File: G:\2014 Land Projects\2014 Signals PC\dwg\Signal-DTL1.dwg Date Plotted : Aug 11, 2014 - 9:17am

SCALE: NONE	DRAWN BY: DJB				/ /	2014 SIGNAL REPLACEMENT AND INTERSECTION IMPROVEMT PROJECT FIRST AVENUE (IA Hwy 1) AND FIRST STREET	CONTRACT QUANTITIES BIDDING NOTES	CITY OF Mt. VERNON CITY HALL 213 1st. STREET W. Mt. VERNON, IOWA 52314 (319) 895-8742	SHEET 8 OF 12
	CHECKED BY:				/ /				
	APPROVED BY:				/ /				
	DATE: 12/30/14				/ /				
PLOT DATE: Aug 11, 2014	FIELD BOOK:	NO.	REVISION DESCRIPTION	APPROVED	DATE				

CAD File: C:\2014 Land Projects\2014 Signals PC\dwg\Signal-DTL1.dwg Date Plotted : Aug 11, 2014 - 8:19am

SCALE: NONE	DRAWN BY: DJB				/ /	2014 SIGNAL REPLACEMENT AND INTERSECTION IMPROVEMT PROJECT FIRST AVENUE (IA Hwy 1) AND FIRST STREET	DETAILS	CITY OF Mt. VERNON CITY HALL 213 1st. STREET W. Mt. VERNON, IOWA 52314 (319) 895-8742	SHEET 9 OF 12
	CHECKED BY:				/ /				
	APPROVED BY:				/ /				
	DATE: 12/30/14				/ /				
PLOT DATE: Aug 11, 2014	FIELD BOOK:	NO.	REVISION DESCRIPTION	APPROVED	DATE				





Notes:
Use existing 3" conduits as constructed.

Extend exsting 3" conduits to new handhole locations as needed.

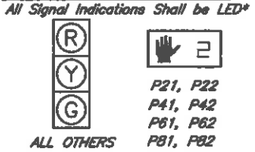
All handholes are 24"x36" preformed polymer concrete with bolt down lids.

Power to come from existing pole near controller. Mount service disconnect and meter on contoller cabinet per local utility requirements. Coordinate with utility for power connection. Contractor to supply all materials as required by the local utility and install those portions normally installed by the power customer, per the utility's requirements.

Splice 5c for heads 21 and 22 and heads 61 and 62 in their respective pole bases. Run one 5c back to the controller for each pair of heads.

SIGNAL INDICATIONS*

*All Signal Indications Shall be LED**



TRAFFIC SIGNAL LEGEND

- TRAFFIC SIGNAL HEAD W/ BACKPLATE
- PEDESTRIAN HEAD
- MAST ARM AND BASE
- PEDESTAL
- SIGNAL CABINET
- 24" x 36" HANDHOLE
- CONCRETE HANDHOLE
- PLASTIC HANDHOLE
- VEHICLE DETECTOR LOOP
- PEDESTRIAN PUSH BUTTON
- SERVICE ORIGIN
- PVC TRAFFIC SIGNAL CONDUIT
- HDPE CONDUIT
- SIGN
- COMBINATION STREETLIGHT
- WIRELESS ACCESS POINT
- WIRELESS DETECTOR

CAD File: T:\ACAD\214053\Sheets\4053N.dwg Date Plotted : Aug 10, 2014 – 12:06pm

SCALE: See Scale Bar	DRAWN BY: JCM				
	CHECKED BY: JCM				
	APPROVED BY: JCM				
	DATE: 8/08/14				
PLOT DATE: Aug 10, 2014	FIELD BOOK:	NO.	REVISION DESCRIPTION	APPROVED	DATE

2014 SIGNAL REPLACEMENT AND INTERSECTION IMPROVEMT PROJECT
FIRST AVENUE (IA Hwy 1) AND FIRST STREET

Wiring Diagram

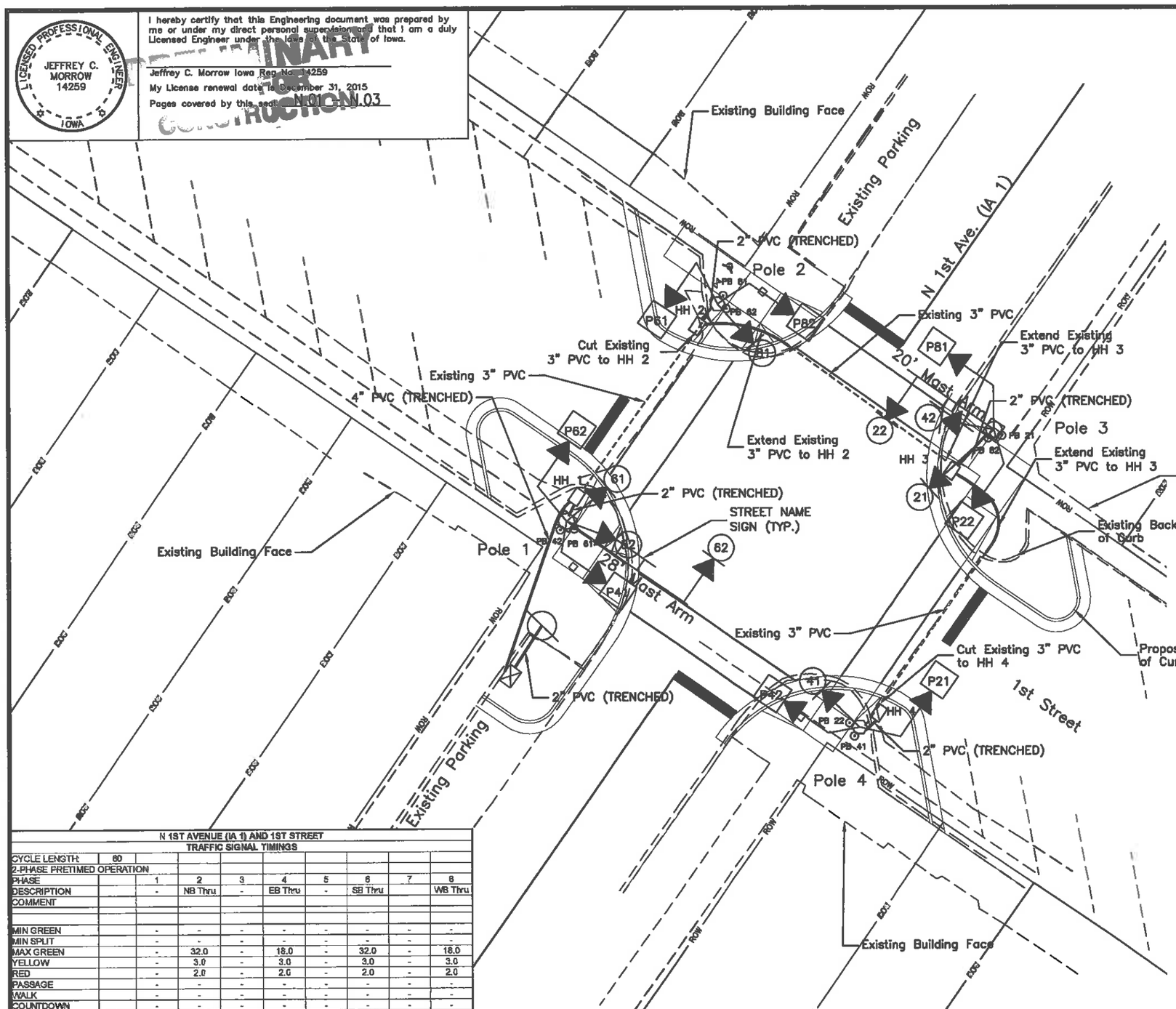
CITY OF Mt. VERNON
CITY HALL
213 1st. STREET W.
Mt. VERNON, IOWA 52314
(319) 895-8742

LICENSED PROFESSIONAL ENGINEER
JEFFREY C. MORROW
14259
IOWA

I hereby certify that this Engineering document was prepared by me or under my direct personal supervision and that I am a duly Licensed Engineer under the Iowa Code of the State of Iowa.

Jeffrey C. Morrow Iowa Reg No. 14259
My License renewal date is December 31, 2015
Pages covered by this seal: N.01 - N.03

PRELIMINARY NOT FOR CONSTRUCTION



Notes:
Use existing 3" conduits as constructed.

Extend exsting 3" conduits to new handhole locations as needed.

All handholes are 24"x36" preformed polymer concrete with bolt down lids. The handholes should be heavy traffic rated.

Refer to SUDAS Standard Details 8010.101 Cabinet Footing Details, 8010.102 Pole Footing Details, 8010.103 Conduit and Handholes, 8010.105 Mast Arm Pole Details and 8010.106 Pedestal Pole and Pedestrian Post Details.

Refer to SUDAS Standard Specifications 8010 Traffic Signals. Mast arm pole bases shall by Type A. Traffic signal pole finish shall be powder coated black.

The traffic signal shall operate as a pre-timed signal - No Detection.
Pedestrian pushbuttons shall be solid state (Non-APS).
Use the City's existing traffic signal controller and cabinet.
Battery Backup system is not required.

Street name signs shall be provided by the City. Contractor shall supply all brackets and hardware and mount the signs on the mast arms.

N

0 20

SIGNAL INDICATIONS*

*All Signal Indications Shall be LED**

R
Y
G
ALL OTHERS

2
P21, P22
P41, P42
P61, P62
P81, P82

SIGNAL PHASING

1	2 Ped	3	4 Ped
5	6 Ped	7	8 Ped

TRAFFIC SIGNAL LEGEND

- TRAFFIC SIGNAL HEAD W/ BACKPLATE
- PEDESTRIAN HEAD
- MAST ARM AND BASE
- PEDESTAL
- SIGNAL CABINET
- 24" x 36" HANDHOLE
- CONCRETE HANDHOLE
- PLASTIC HANDHOLE
- VEHICLE DETECTOR LOOP
- PEDESTRIAN PUSH BUTTON
- SERVICE ORIGIN
- PVC TRAFFIC SIGNAL CONDUIT
- HDPE CONDUIT
- SIGN
- COMBINATION STREETLIGHT
- WIRELESS ACCESS POINT
- WIRELESS DETECTOR

N 1ST AVENUE (IA 1) AND 1ST STREET
TRAFFIC SIGNAL TIMINGS

CYCLE LENGTH:	60								
2-PHASE PRETIMED OPERATION									
PHASE		1	2	3	4	5	6	7	8
DESCRIPTION		-	NB Thru	-	EB Thru	-	SB Thru		WB Thru
COMMENT									
MIN GREEN		-	-	-	-	-	-	-	-
MIN SPLIT		-	-	-	-	-	-	-	-
MAX GREEN		-	32.0	-	18.0	-	32.0	-	18.0
YELLOW		-	3.0	-	3.0	-	3.0	-	3.0
RED		-	2.0	-	2.0	-	2.0	-	2.0
PASSAGE		-	-	-	-	-	-	-	-
WALK		-	-	-	-	-	-	-	-
COUNTDOWN		-	-	-	-	-	-	-	-

CAD File: T:\ACAD\214053\Sheets\4053N.dwg Date Plotted : Aug 10, 2014 - 1:37pm

SCALE: See Scale Bar

PLOT DATE: Aug 10, 2014

DRAWN BY: JCM
CHECKED BY: JCM
APPROVED BY: JCM
DATE: 8/08/14
FIELD BOOK:

NO.	REVISION DESCRIPTION	APPROVED	DATE

2014 SIGNAL REPLACEMENT AND INTERSECTION IMPROVEMT PROJECT
FIRST AVENUE (IA Hwy 1) AND FIRST STREET

Traffic Signal Plan

CITY OF Mt. VERNON
CITY HALL
213 1st. STREET W.
Mt. VERNON, IOWA 52314
(319) 895-8742

SHEET N.02 OF N.03

CONDUIT: 1ST AVENUE (IA 1) AND 1ST STREET								
FROM	TO	CTR TO CTR DISTANCE	TRENCH PVC			BORED PVC		REMARKS
			2"	3"	4"	2"	4"	
X	HH1	38			20			
HH1	HH2	40					0	Existing Conduit
HH2	HH3	58		17				39' of Existing Conduit
HH3	HH4	54		17				37' of Existing Conduit
HH4	P4	4	4					
HH1	P1	5	5					
HH2	P2	6	6					
HH3	P3	9	9					
HH4	P4	4	4					
Ø	X	11	11					
TOTAL			39	34	20	0	0	

NEW CABLE													
FROM	TO	CTR TO CTR DISTANCE	LIGHTING		POWER	CONTROL				GROUND	TRACER	ACCESS POINT	REMARKS
			1c #6	1c #8	1c#6	7c #14	5c #14	2c #14	Video	1c#6	1c #10	Cat5e	
X	HH1	38					588	338		42	42		
HH1	HH2	40					430	258		46	46		
HH2	HH3	58					413	236		62	62		
HH3	HH4	54					171	114		60	60		
HH4	P4	4					63	34		10	10		
HH1	P1	5					146	36		11	11		
HH2	P2	6					69	36		12	12		
HH3	P3	9					154	44		15	15		
HH4	P4	4					63	34					
Ø	X	11			180					17	17		Includes wire to top of Riser
		TOTAL	0	0	180	0	2087	1136	0	275	275	0	

Notes:

Use City supplied traffic signal controller and cabinet. Contractor to supply and install a 24" tall polymer concrete riser base. Attach riser base to concrete footing and attach existing cabinet to riser base. Contractor to pre-measure the existing cabinet prior to ordering riser base.

When new traffic signal is operational, contractor shall remove the existing temporary traffic signal. Coordinate with City what parts of the temporary traffic signal City wants to keep. All other temporary signal parts become the property of the Contractor.

N

0 20

POLE & MAST ARM SIGNS.		
LEGEND	QUANTITY	COMMENT
STREET NAME	2	CITY SUPPLIED

Street Name Signs to be supplied by City. Contractor to provide hardware and brackets and to install on mast arms. Supply and install of signal signs is incidental. Push button signs shall be R10-3e.

POLE NUMBER	HANDHOLE NUMBER	LOCATION: 1ST AVENUE (IA 1) AND 1ST STREET				REMARKS
		APPROACH	NORTHING	EASTING	ELEVATION	
1		SB 1ST AVENUE	3,441,697.06	5,469,045.31	883.98	
2		WB 1ST STREET	3,441,733.50	5,469,076.23	883.93	
3		NB 1ST AVENUE	3,441,714.44	5,469,129.03	883.06	
4		EB 1ST STREET	3,441,657.55	5,469,102.18	882.88	
	1	SB 1ST AVENUE	3,441,701.73	5,469,045.26	883.97	24X36 Polymer Conc.
	2	WB 1ST STREET	3,441,734.28	5,469,071.33	883.90	24X36 Polymer Conc.
	3	NB 1ST AVENUE	3,441,705.57	5,469,120.02	882.80	24X36 Polymer Conc.
	4	EB 1ST STREET	3,441,660.33	5,469,105.94	882.85	24X36 Polymer Conc.

POLE NUMBER	LOCATION: 1ST AVENUE (IA 1) AND 1ST STREET		FOOTING		
	TYPE	MAST ARM LENGTH	DIAMETER	DEPTH PER SCHEDULE	TOP OF FOOTING
1	Mast Arm	28'	3'	11'-0"	
2	Pedestal		2'	3'-0"	
3	Mast Arm	20'	3'	11'-0"	
4	Pedestal		2'	3'-0"	

TRAFFIC SIGNAL HEAD AND PUSHBUTTON QUANTITIES								
POLE NUMBER	SIGNAL HEAD NUMBER	3-SECTION	4-SECTION (FLASH LT ARROW)	5-SECTION	COUNTDOWN HAND / MAN	PEDESTRIAN PUSHBUTTON	MOUNTING	
							OVERHEAD	SIDE
1	61	1						1
1	62	1					1	
1	62	1						1
1	P41 / P62				2			2
1	PB42 / PB61					2		
2	61	1						1
2	PB62 / PB61					2		
2	P62 / P61				2			2
3	21	1						1
3	22	1					1	
3	42	1						1
3	PB21 / PB82					2		
3	P22 / P81				2			2
4	41	1						1
4	P21 / P42				2			2
4	PB22 / PB41					2		
TOTALS		6	0	0	6	6	2	14

CAD File: T:\ACAD\2140053\Sheets\4053N.dwg Date Plotted : Aug 10, 2014 – 1:52pm

SCALE: See Scale Bar

PLOT DATE: Aug 10, 2014

DRAWN BY: JCM				/ /
CHECKED BY: JCM				/ /
APPROVED BY: JCM				/ /
DATE: 8/08/14				/ /
FIELD BOOK:	NO.	REVISION DESCRIPTION	APPROVED	DATE

2014 SIGNAL REPLACEMENT AND INTERSECTION IMPROVEMT PROJECT
FIRST AVENUE (IA Hwy 1) AND FIRST STREET

Quantities

CITY OF Mt. VERNON
CITY HALL
213 1st. STREET W.
Mt. VERNON, IOWA 52314
(319) 895-8742