

A d d e n d u m

Iowa Department of Transportation
Office of Contracts

Date of Letting: April 15, 2014
Date of Addendum: April 2, 2014

B.O.	Proposal ID	Proposal Work Type	County	Project Number	Addendum
102	07-8155-731	PCC PAVEMENT - GRADE & REPLACE	BLACK HAWK	STP-U-8155(731)--70-07	15APR102.A01

Notice: Only the bid proposal holders receive this addendum and responsibility for notifying any potential subcontractors or suppliers remains with the proposal holder.

Make the following changes to the PROPOSAL SCHEDULE OF PRICES:

Change Proposal Line No. 0060 2115-0100000 MODIFIED SUBBASE:

From: 8,175.900 CY

To: 8,171.900 CY

Change Proposal Line No. 0110 2301-1033070 STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 7 IN.:

From: 1,305.700 SY

To: 1,406.000 SY

Change Proposal Line No. 0120 2301-1033080 STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 8 IN.:

From: 34,038.900 SY

To: 32,906.900 SY

Change Proposal Line No. 0130 2301-1083070 STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS M, CLASS 3 DURABILITY, 7 IN.:

From: 721.600 SY

To: 689.500 SY

Change Proposal Line No. 0190 2301-7000110 PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT THICKNESS (BY SCHEDULE):

From: 34,000.000 EACH

To: 33,000.000 EACH

Change Proposal Line No. 0210 2303-0041750 HOT MIX ASPHALT MIXTURE (3,000,000 ESAL), BASE COURSE, ¾ IN. MIX:

From: 2,153.900 TON

To: 2,109.500 TON

Change Proposal Line No. 0220 2303-0042750 HOT MIX ASPHALT MIXTURE (3,000,000 ESAL), INTERMEDIATE COURSE, ¾ IN. MIX:

From: 935.900 TON

To: 914.200 TON

Change Proposal Line No. 0230 2303-0043500 HOT MIX ASPHALT MIXTURE (3,000,000 ESAL), SURFACE COURSE, ½ IN. MIX, NO SPECIAL FRICTION REQUIREMENT:

From: 624.100 TON

To: 609.700 TON

Change Proposal Line No. 0240 2303-0245828 ASPHALT BINDER, PG 58-28:

From: 220.500 TON

To: 215.700 TON

If the above changes are not made, they will be made as shown here.

Make the following change to the PLAN:

SHEET C.02:

Change the first line in the first tabulation on the left side of the sheet [Item Code “Multiple Items” and Item “All PCC and HMA paving and structural concrete items.], the Iowa Department of Transportation Standard Specifications Section number for Certified Plant Inspection from “2512” to “2521.”

SHEET C.08:

Replace the TABULATION OF MODIFIED SUBBASE (6-INCH THICK) with the attached TABULATION OF MODIFIED SUBBASE (6-INCH THICK).

SHEET C.10:

Replace the TABULATION OF PCC PAVEMENT, NON-REINFORCED, 7-INCH with the attached TABULATION OF PCC PAVEMENT, NON-REINFORCED, 7-INCH.

Replace the TABULATION OF PCC PAVEMENT, NON-REINFORCED, CLASS C, 8-INCH with the attached TABULATION OF PCC PAVEMENT, NON-REINFORCED, CLASS C, 8-INCH.

Replace the TABULATION OF HOT MIX ASPHALT (HMA) PAVEMENT, 3M ESAL, BASE (¾ IN. MIX) with the attached TABULATION OF HOT MIX ASPHALT (HMA) PAVEMENT, 3M ESAL, BASE (¾ IN. MIX).

Replace the TABULATION OF HOT MIX ASPHALT (HMA) PAVEMENT, 3M ESAL, INTERMEDIATE (¾ IN. MIX) with the attached TABULATION OF HOT MIX ASPHALT (HMA) PAVEMENT, 3M ESAL, INTERMEDIATE (¾ IN. MIX).

Replace the TABULATION OF HOT MIX ASPHALT (HMA) PAVEMENT, 3M ESAL, SURFACE (½ IN. MIX) with the attached TABULATION OF HOT MIX ASPHALT (HMA) PAVEMENT, 3M ESAL, SURFACE (½ IN. MIX).

Make the following change to the PLAN:

SHEETS A.01, R.01, U.04, AND U.07:

Replace SHEETS A.01, R.01, U.04, and U.07 with the attached SHEETS A.01, R.01, U.04, and U.07. These replacement sheets have been signed and sealed.

Make the following change to the PLAN:

SHEETS D.02, D.03, D.04, E.01, E.02, AND E.03:

Replace SHEETS D.02, D.03, D.04, E.01, E.02, and E.03 with the attached SHEETS D.02, D.03, D.04, E.01, E.02, and E.03. Information on existing CenturyLink facilities, obtained after the initial plan set submittal, has been added to these sheets.

Make the following change to the PLAN:

SHEET J.01:

GENERAL CONSTRUCTION NOTE No. 5:

Revised to state: THE FOLLOWING KIMBALL AVENUE INTERSECTION RETURNS ARE ALLOWED TO BE CLOSED AT ANY TIME WITH APPROPRIATE SAFETY CLOSURES AND DETOUR SIGNING: BROOKERIDGE DRIVE (WEST APPROACH), RACHAEL STREET, THE KIMBALL AVENUE FRONTAGE ROAD SOUTH INTERSECTION, PARK LANE, AND THE KIMBALL AVENUE FRONTAGE ROAD NORTH INTERSECTION.” In other words, the phrase “...DURING THE DAYTIME...” should be replaced with “...AT ANY TIME...” to clarify the Designer’s intent.

TABULATION OF MODIFIED SUBBASE (6-INCH THICK)

LOCATION		Average Width Ft.	Length Ft.	AREA Sq. Ft.	AREA Sq. Yds.	THICK- NESS Inches	VOLUME Cu. Yds.	REMARKS
Station to Station	Side							
KIMBALL AVE								
108+06.6 TO 110+77.3	BOTH	80.4	270.7	21764	2418	6	403.0	STAGES 1 & 2 - S OF SAN MARNAN DR
111+56.7 TO 124+25.0	BOTH	76.0	1268.3	96444	10716	6	1786.0	STAGES 1 & 2 - N OF SAN MARNAN DR
120+00.0 TO 120+64.5	RT	10.8	65	702	78	6	13.0	HMA PARKING LOT FOR PARCEL 83
121+54.4 TO 122+75.0	RT	5.0	120.6	601	67	6	11.1	HMA PAVED DRIVE AREA E OF RETAINING WALL FOR PARCEL 82b PARKING LOT
124+25.0 TO 135+34.9	BOTH	65.4	1109.9	72615	8069	6	1344.7	STAGES 5 & 6
135+34.9 TO 147+75.0	BOTH	68.4	1240.1	84765	9418	6	1569.7	STAGES 3A & 4
147+75.0 TO 154+09.8	BOTH	67.8	634.8	43009	4779	6	796.5	STAGES 7 & 8 - S OF RIDGEWAY DR
154+62.8 TO 158+48.9	BOTH	65.4	386.1	25267	2807	6	467.9	STAGES 7 & 8 - N OF RIDGEWAY DR
155+11.9 TO 157+21.5	RT	3.0	209.6	634	71	6	11.7	HMA PAVED DRIVE AREA E OF RETAINING WALL FOR PARCEL 50b PARKING LOT
SAN MARNAN DR								
205+13.8 TO 213+43.4	BOTH	20.1	829.6	16638	1849	6	308.1	STAGE 4 - MEDIAN ALONG SAN MARNAN DR
205+64.9 TO 213+45.2	LT	18.8	780.3	14695	1633	6	272.1	STAGE 3 - N SIDE OF SAN MARNAN DR W OF KIMBALL AVE
209+69.6 TO 213+43.5	RT	11.8	373.9	4411	490	6	81.7	STAGE 3 - S SIDE OF SAN MARNAN DR W OF KIMBALL AVE
215+44.1 TO 226+12.8	LT	21.6	1068.7	23100	2567	6	427.8	STAGE 3 - N SIDE OF SAN MARNAN DR E OF KIMBALL AVE
PARK LN								
302+24.9 TO 305+14.6	BOTH	29.5	289.7	8552	950	6	158.4	STAGES 4A AND 4B
306+38.7 TO 309+73.2	BOTH	41.8	334.5	13982	1554	8	345.2	STAGE 3
RIDGEWAY AVE								
402+30.5 TO 406+70.5	RT	9.6	440	4241	471	6	78.5	STAGE 9 - S SIDE OF RIDGEWAY AVE W OF KIMBALL AVE
407+99.7 TO 411+82.3	RT	10.4	382.7	3978	442	6	73.7	STAGE 9 - S SIDE OF RIDGEWAY AVE E OF KIMBALL AVE
409+65.6 TO 411+45.0	LT	6.9	179.4	1231	137	6	22.8	STAGE 9A

TABULATION OF PCC PAVEMENT, NON-REINFORCED, 7-INCH

LOCATION		Average Width Ft.	Length Ft.	CLASS C	CLASS C	CLASS M	CLASS M	REMARKS
Station to Station	Side			AREA Sq. Ft.	AREA Sq. Yds.	AREA Sq. Ft.	AREA Sq. Yds.	
KIMBALL AVE								
117+21.2 TO 117+97.6	LT	14	76.4	1056	117.3			BROOKERIDGE DR W RETURN
117+21.1 TO 118+11.7	RT	15	90.6			1376	152.9	BROOKERIDGE DR E RETURN
122+77.1 TO 123+44.2	LT	23	67.1	1568	174.2			RT-IN / RT-OUT ACCESS DRIVE
129+57.4 TO 130+22.2	LT	9	64.8	555	61.7			RACHAEL ST RETURN
135+45.9 TO 136+19.8	LT	12	73.9	861	95.7			KIMBALL AVE FRONTAGE RD (S INTERSECTION) RETURN
149+63.2 TO 150+40.9	LT	10	77.7	764	84.8			KIMBALL AVE FRONTAGE RD (N INTERSECTION) RETURN
SAN MARNAN DR								
207+58.3 TO 208+76.3	LT	26	118			3045	338.3	PHEASANT LN RETURN
PARK LN								
303+60.0 TO 305+14.6	RT	32	154.6	4925	547.2			STAGE 4A + PVMT BETWEEN FRONTAGE RD & KIMBALL AVE
303+60.0 TO 304+97.3	LT	21	137.3	2926	325.1			STAGE 4B
306+01.5 TO 306+38.7	BOTH	48	37.2			1784	198.3	E RETURN AT KIMBALL AVE
TOTALS =					1,406.0		689.5	

TABULATION OF PCC PAVEMENT, NON-REINFORCED, CLASS C, 8-INCH

LOCATION		Average Width Ft.	Length Ft.	CLASS C	CLASS C	CLASS M	CLASS M	REMARKS
Station to Station	Side			AREA Sq. Ft.	AREA Sq. Yds.	AREA Sq. Ft.	AREA Sq. Yds.	
KIMBALL AVE								
108+06.6 TO 110+77.3	LT	40	270.7	10863	1207.0			STAGE 1
111+56.7 TO 124+25.0	LT	33	1268.3	41800	4644.4			STAGE 1
108+06.4 TO 110+77.3	RT	34	270.9	9242	1026.9			STAGE 2
111+56.7 TO 124+25.0	RT	33	1268.3	33087	3676.4	8671	963.5	STAGE 2 INCLUDING SAN MARNAN DR FRONTAGE RD
113+36.8 TO 113+79.7	RT	24	42.9			1031	114.6	SAN MARNAN DR FRONTAGE RD STAMPED PCC
135+34.9 TO 147+75.0	RT	29	1240.1	33569	3729.9	3012	334.7	STAGE 3A
135+34.9 TO 147+75.0	LT	30	1240.1	36627	4069.6			STAGE 4
124+25.0 TO 135+34.9	LT	29	1109.9	32733	3637.0			STAGE 5
124+25.0 TO 135+34.9	RT	30	1109.9	32749	3638.8			STAGE 6
147+75.0 TO 154+09.8	RT	30	634.8	19234	2137.1			STAGE 7
154+62.8 TO 158+48.9	RT	29	386.1	11285	1253.9			STAGE 7
147+75.0 TO 154+09.8	LT	30	634.8	19230	2136.7			STAGE 8
154+62.8 TO 158+48.9	LT	30	386.1	11545	1282.8			STAGE 8
SAN MARNAN DR								
221+51.1 TO 222+27.5	LT	16	76.4	1254	139.3			STAMPED PCC @ SAN MARNAN DR RT-IN / RT-OUT
221+97.4 TO 223+10.5	LT	37	113.1	4198	466.4			SAN MARNAN DR RT-IN / RT-OUT
222+80.5 TO 223+55.5	LT	13	75	942	104.7			STAMPED PCC @ SAN MARNAN DR RT-IN / RT-OUT

SUBTOTAL (Normal Surface) = 32,906.9
 SUBTOTAL (Stamped Surface) = 244.0
 TOTALS = 33,150.9

1,298.2
 114.6
 1,412.8

TABULATION OF HOT MIX ASPHALT (HMA) PAVEMENT, 3M ESAL, BASE (3/4 IN. MIX)

LOCATION		AVG. WIDTH Ft.	LENGTH Ft.	AREA Sq. Ft.	AREA Sq. Yds.	THICK- NESS Inches	DENSITY (Lbs per Cu. Ft.)	WEIGHT Tons	REMARKS
Station to Station	Side								
SAN MARNAN DR									
205+13.6 TO 208+49.5	BOTH	10.4	335.8	3,498	388.6	8	145	169.1	
205+64.9 TO 213+45.2	LT	11.8	780.3	9,218	1,024.2	8	145	445.5	
208+75.9 TO 213+43.4	BOTH	11.2	467.5	5,231	581.3	8	145	252.9	
209+69.6 TO 213+43.5	RT	8.8	373.9	3,286	365.1	8	145	158.8	
214+94.1 TO 226+09.8	LT	11.8	1065.7	12,606	1,400.7	8	145	609.3	
PARK LN									
302+24.9 TO 303+60.0	RT	0.5	135.1	62	6.8	4	145	1.5	
303+18.8 TO 303+60.0	LT	8.0	41.2	329	36.6	4	145	8.0	
306+38.7 TO 309+73.2	BOTH	31.8	334.5	10,626	1,180.6	4	145	256.8	
RIDGEWAY AVE									
402+30.5 TO 406+70.5	RT	5.7	440.1	2,511	279.0	7	145	106.2	
407+99.7 TO 411+82.3	RT	5.4	382.6	2,064	229.3	7	145	87.3	
409+65.6 TO 411+45.0	LT	1.9	179.4	334	37.1	7	145	14.1	
TOTAL =								2109.5	

TABULATION OF HOT MIX ASPHALT (HMA) PAVEMENT, 3M ESAL, INTERMEDIATE (3/4 IN. MIX)

LOCATION		AVG. WIDTH Ft.	LENGTH Ft.	AREA Sq. Ft.	AREA Sq. Yds.	THICK- NESS Inches	DENSITY (lbs per Cu. Ft.)	WEIGHT Tons	REMARKS
Station to Station	Side								
SAN MARNAN DR									
205+13.6 TO 208+49.5	BOTH	10.4	335.8	3,498	388.6	3	147	64.3	
205+64.9 TO 213+45.2	LT	11.8	780.3	9,218	1,024.2	3	147	169.4	
208+75.9 TO 213+43.4	BOTH	11.2	467.5	5,231	581.3	3	147	96.1	
209+69.6 TO 213+43.5	RT	8.8	373.9	3,286	365.1	3	147	60.4	
214+94.1 TO 226+09.8	LT	11.8	1065.7	12,606	1,400.7	3	147	231.6	
PARK LN									
302+24.9 TO 303+60.0	RT	0.5	135.1	62	6.8	3	147	1.1	
303+18.8 TO 303+60.0	LT	8.0	41.2	329	36.6	3	147	6.0	
306+38.7 TO 309+73.2	BOTH	31.8	334.5	10,626	1,180.6	3	147	195.2	
RIDGEWAY AVE									
402+30.5 TO 406+70.5	RT	5.7	440.1	2,511	279.0	3	147	46.1	
407+99.7 TO 411+82.3	RT	5.4	382.6	2,064	229.3	3	147	37.9	
409+65.6 TO 411+45.0	LT	1.9	179.4	334	37.1	3	147	6.1	
TOTAL =								914.2	

TABULATION OF HOT MIX ASPHALT (HMA) PAVEMENT, 3M ESAL, SURFACE (1/2 IN. MIX)

LOCATION		AVG. WIDTH Ft.	LENGTH Ft.	AREA Sq. Ft.	AREA Sq. Yds.	THICK- NESS Inches	DENSITY (lbs per Cu. Ft.)	WEIGHT Tons	REMARKS
Station to Station	Side								
SAN MARNAN DR									
205+13.6 TO 208+49.5	BOTH	10.4	335.8	3,498	388.6	2	147	42.8	
205+64.9 TO 213+45.2	LT	11.8	780.3	9,218	1,024.2	2	147	112.9	
208+75.9 TO 213+43.4	BOTH	11.2	467.5	5,231	581.3	2	147	64.1	
209+69.6 TO 213+43.5	RT	8.8	373.9	3,286	365.1	2	147	40.3	
214+94.1 TO 226+09.8	LT	11.8	1065.7	12,606	1,400.7	2	147	154.4	
PARK LN									
302+24.9 TO 303+60.0	RT	0.5	135.1	62	6.8	2	147	0.8	
303+18.8 TO 303+60.0	LT	8.0	41.2	329	36.6	2	147	4.0	
306+38.7 TO 309+73.2	BOTH	31.8	334.5	10,626	1,180.6	2	147	130.2	
RIDGEWAY AVE									
402+30.5 TO 406+70.5	RT	5.7	440.1	2,511	279.0	2	147	30.8	
407+99.7 TO 411+82.3	RT	5.4	382.6	2,064	229.3	2	147	25.3	
409+65.6 TO 411+45.0	LT	1.9	179.4	334	37.1	2	147	4.1	
TOTAL =								609.7	

LETTING DATE
04-15-14

BLACK HAWK COUNTY
PCC PAVEMENT - GRADE AND REPLACE
STP-U-8155(731)--70--07

BLACK HAWK COUNTY



Iowa Department of Transportation

Highway Division

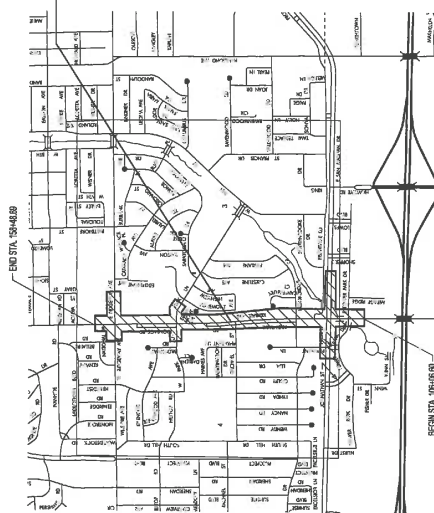
This project is covered by the Iowa Department of Natural Resources NPDES General Permit No. 2. The contractor shall carry out the terms and conditions of General Permit No. 2 and the storm water pollution prevention plan which is a part of these contract documents. Refer to Section 2602 of the Standard Specifications for additional information.

PLANS OF PROPOSED IMPROVEMENT ON THE

URBAN ROAD SYSTEM CITY OF WATERLOO BLACK HAWK COUNTY

PCC PAVEMENT - GRADE AND REPLACE
KIMBALL AVENUE
FROM TOWER PARK DR TO ACADIA ST
AND SAN MARNAN DR, PARK LN, AND RIDGEWAY AVE SIDE ROADS
SPALES IN HAND
F.Y. 2014 KIMBALL AVE TRANSPORTATION IMPROVEMENTS
CITY CONTRACT NO. 843

PROJECT LOCATION



NOT TO SCALE

Refer to the Proposal Form for list of applicable specifications.

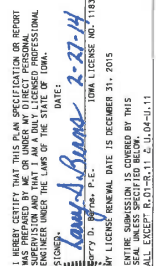
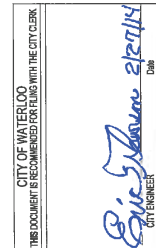
Value Engineering Saves. Refer to Article 1105.15 of the Specifications.

MILEAGE SUMMARY			
DN	LOCATION	LN. FT.	VALUE
1	KIMBALL AVE STA. 150+00 TO STA. 158+00.33 TOTAL LENGTH (ROADWAY) 800.33	800.33	0.055
1	SAN MARNAN DR STA. 25+00 TO STA. 25+06.79 TOTAL LENGTH (SIDEWALK) 66.79	66.79	0.017
1	PARK LN STA. 302+54.87 TO STA. 308+73.24 TOTAL LENGTH (SIDEWALK) 618.37	618.37	0.042
1	RIDGEWAY AVE STA. 402+30.69 TO STA. 411+42.33 TOTAL LENGTH (SIDEWALK) 901.64	901.64	0.080
	TOTAL LENGTH OF PROJECT	1887.03	1.194

For Detailed Project Location
Map - Refer to Sheet A.02.



DESIGN DATA			
	ADOT	V.P.D.	
2009	15.700	V.P.D.	
2035	22.300	V.P.D.	
2035	2.230	V.P.H.	
TRUCKS	2	%	
Total			
Design ESALs	2,339,876		



REVISIONS	
NO.	DESCRIPTION
1	ISSUED FOR BIDDING
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INDEX OF SHEETS	
No.	Description
A.01	TITLE SHEET
A.02	DETAILED PROJECT LOCATION MAP
A.03	LEGEND AND SYMBOL INFORMATION SHEET
B.01-B.08	TYPICAL CROSS SECTIONS AND STANDARD NOTES
C.01-C.21	ESTIMATED PROJECT QUANTITIES / ESTIMATE REFERENCE INFORMATION / TABULATIONS
C.22	STORM WATER POLLUTION PREVENTION PLAN
D.01-D.09	PLAN AND PROFILE SHEETS - MAINLINE
D.10-D.13	SANITARY SEWER PLAN AND PROFILE SHEET / NOTES
E.01-E.07	PLAN AND PROFILE SHEETS - SIDE ROADS
F.01-F.08	REMOVALS SHEETS
G.01-G.03	REFERENCE TIES AND BENCHMARKS
H.01-H.08	RIGHT-OF-WAY AND EASEMENT SHEETS
I.01-I.13	TRAFFIC CONTROL AND CONSTRUCTION STAGING SHEETS
J.01-J.10	PAVEMENT MARKINGS AND SIGNING SHEETS
K.01-K.03	INTERSECTION GEOMETRICS AND JOINING LAYOUT SHEETS
L.01-L.10	STORM SEWER TABULATIONS
M.01-M.03	STORM SEWER PLAN SHEETS
N.01-N.10	EROSION CONTROL PLAN SHEETS
O.01-O.12	RETAINING WALL SHEETS
U.01-U.06	STANDARD AND SPECIAL DETAILS
W.01-W.13	CROSS SECTIONS - MAINLINE
X.01-X.32	CROSS SECTIONS - SIDE ROADS

SEE SHEET B.08 FOR LIST
OF STANDARD ROAD PLANS.

INDEX OF SEALS	
Sheet No.	Type
A.01	PRIMARY SIGNATURE BLOCK
B.01	EROSION CONTROL PLANS / STORM WATER POLLUTION PREVENTION PLAN
C.01	STORM SEWER PLAN SHEETS
D.01	STORM SEWER PLAN SHEETS
E.01	STORM SEWER PLAN SHEETS
F.01	STORM SEWER PLAN SHEETS
G.01	STORM SEWER PLAN SHEETS
H.01	STORM SEWER PLAN SHEETS
I.01	STORM SEWER PLAN SHEETS
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O.01	STORM SEWER PLAN SHEETS
P.01	STORM SEWER PLAN SHEETS
Q.01	STORM SEWER PLAN SHEETS
R.01	STORM SEWER PLAN SHEETS
S.01	STORM SEWER PLAN SHEETS
T.01	STORM SEWER PLAN SHEETS
U.01	STORM SEWER PLAN SHEETS
V.01	STORM SEWER PLAN SHEETS
W.01	STORM SEWER PLAN SHEETS
X.01	STORM SEWER PLAN SHEETS
Y.01	STORM SEWER PLAN SHEETS
Z.01	STORM SEWER PLAN SHEETS

STORMWATER POLLUTION PREVENTION PLAN NOTES:

The SWPPP will be housed on site if a construction trailer is present. If no trailer is present, the SWPPP will be housed in a portable toilet or an alternative off-site location, but must be provided within 3 hours of request by state, federal, or local regulatory authority.

SWPPP LOCATION:

-
-
-
-

Note the following items on the Erosion Control Plans once locations are determined:

- Construction Driveways
- Construction Parking
- Equipment and Material Storage
- Erosion Control Measures (Silt Fences, etc.)
- Sedimentation Facilities (Pond Capacity)
- Sanitation Facilities (Porta-Potty)
- Garbage / Recycling Facilities
- Concrete Washout
- Job Trailer
- Fuel / Oil / Cleared Vegetation Stockpiles
- Snow Stockpiles

Inlet protection shall be high-flow protection only. Silt fence wraps and straw wattles are NOT appropriate controls for this project. For open throat intakes, big red bags, Erosion Eels, or equivalent practices shall be used. For grated inlets, drop-bags or boxes with overflows shall be used.

INTAKE PROTECTION TO BE USED:

1.1 DESCRIPTION

This note includes the work necessary to furnish, install, maintain, and remove curb intake and grate intake filters for erosion/sediment control on areas within the project limits in accordance with the contract documents and the following information.

1.2 MATERIALS

The Contractor shall furnish material meeting the following requirements.

A. CURB INTAKE PROTECTIONS

Approved Curb Intake Protection Devices include:

1. Erosion Eels
2. Silt-Saver "Red" by ASP Enterprises and Storm Water Products
3. C-300A Curb Inlet Filter by Silt-Saver, Inc.
4. Or approved equal.

B. GRATE INTAKE FILTER

1. Ex-Inlet Guard Under Grate by Stetson Building Products, Inc.
2. Flexstorm
3. Road Drain Products by WIMCO
4. Or approved equal.

1.3 CONSTRUCTION

- A. The furnished intake protection shall be installed per manufacturer's instructions.
- B. Maintain intake protection devices in appropriate functional condition from initial installation to removal. Restore intake protection devices to their original condition in accordance with the manufacturer's recommendations when siltation has reduced their capacity.
- C. Maintenance of intake protection devices includes excavation and disposal of silt material trapped by the intake protection device. Dispose of the silt material off the project unless Engineer approves a suitable site within the project limits.
- D. Removal of intake protection devices includes disposal of the intake protection devices off the project at an approved waste area according to Federal, State, and Local regulations.

1.4 METHOD OF MEASUREMENT

Measurement for intake protection items will be as follows:

- A. Intake Protection
By count for each intake protected.
- B. Maintenance of Intake Protection
By count for each intake for which protection is maintained.
- C. Removal of Intake Protection
By count for each intake for which protection is removed.

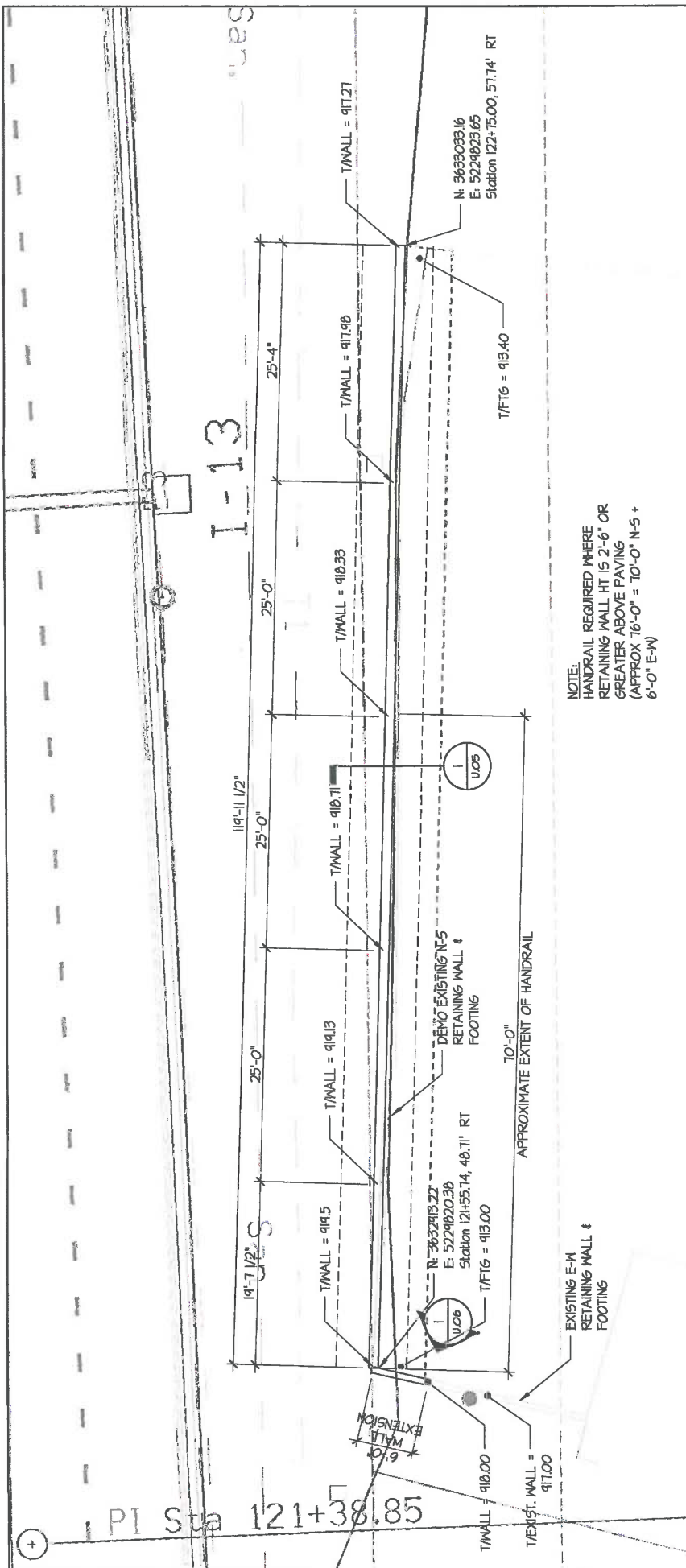
1.5 BASIS OF PAYMENT

Payment for intake protection items will be at the contract unit price as described below. Payment for construction of intake protection items is full compensation for labor, equipment, and material necessary to furnish and install the items according to the contract documents.

- A. Intake Protection
Each for properly installed intake protection.
- B. Maintenance of Intake Protection
Each for intake protection properly cleaned out.
- C. Removal of Intake Protection
Each for intake protection properly removed.

END OF SECTION

SWPPP DESIGN	
<p>I hereby certify that this engineering document was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.</p>	
<p>Signature: <u>Monica M. Smith</u></p>	<p>Date: <u>02-27-2014</u></p>
<p>Printed or Typed Name: <u>Monica M. Smith</u></p>	<p>My license renewal date is December 31, 2015</p>
<p>Pages or sheets covered by this seal: <u>R.01 - R.11</u></p>	

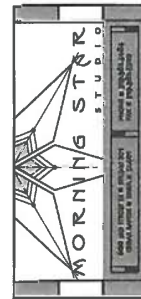


RETAINING WALL PLAN

SCALE: 3/32"=1'-0"

<p>I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT DESCRIBED BELOW 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.</p>		<p>SIGNATURE: <i>Shanna M. Duggan</i> NAME: SHANNA M. DUGGAN DATE: 02.27.14 LICENSE NUMBER: 16011</p>	
<p>MY LICENSE RENEWAL DATE IS: DECEMBER 31, 2015</p>		<p>PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL: U04, U05 & U06</p>	

ONLY THREE COPIES OF THIS DOCUMENT BOUND IN CONTRASTING INK COLOR ARE TO BE CONSIDERED CERTIFIED OFFICIAL COPIES FOR IOWA ADMINISTRATION USE. 1506-1.05



SYSTEM	DATE	DESIGN TEAM	AMOUNT DESIGN	CITY OF WATERLOO	BLACK HAWK	COUNTY	PROJECT NUMBER	STP-U-8155(731)-70-07	SHEET NUMBER	U.04
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GENERAL NOTES:

UTILITY COMPANIES AND MUNICIPALITIES WHOSE FACILITIES ARE SHOWN ON THE PLANS OR KNOWN TO BE WITHIN THE CONSTRUCTION LIMITS SHALL BE NOTIFIED BY THE CONTRACTOR OF THE CONSTRUCTION STARTING DATE. THE PRECAST R.C.B. BOX CULVERT SECTIONS ARE DESIGNED FOR 14-93 LIVE LOAD. NO OTHER LIVE LOADS ARE TO BE APPLIED TO THE 7x3 BOX CULVERT AND 4.5 FEET TO 4.5 FEET FOR 6'x6' BOX CULVERT.

THE PRECAST R.C.B. BARREL SHALL CONFORM TO IOWA D.O.T. SINGLE PRECAST R.C.B. CULVERT STANDARDS. AT THE CONTRACTOR'S OPTION, PRECAST BARREL SECTIONS MAY CONFORM TO ASTM C1577. EXCESS CLASS 20 EXCAVATION MATERIAL SUITABLE FOR BACKFILLING SHALL BE STOCKPILED AT THE CONSTRUCTION SITE, AS DIRECTED BY THE ENGINEER. CLASS 20 EXCAVATION IS INCIDENTAL.

THE LENGTH IN LINEAR FEET OF PRECAST REINFORCED CONCRETE BOX CULVERT WILL BE BASED ON THE PLAN QUANTITY. FOR THE NUMBER OF LINEAR FEET GIVEN ON THE PLAN, THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE PER LINEAR FOOT. THE PAYMENT SHALL BE FULL PAYMENT FOR THE ENTIRE CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NECESSARY TO COMPLETE THE WORK. GRANULAR BACKFILL IS INCIDENTAL.

THE CONTRACTOR SHALL FURNISH AND INSTALL CULVERT TIES FOR ALL JOINTS. THE MAIN SECTION JOINTS WILL HAVE ONE TIE ON EACH SIDE OF THE BARREL AND THE LAST BARREL SECTION WILL BE ATTACHED TO THE END SECTIONS WITH TWO TIES PER SIDE.

CULVERT TIES SHALL BE INCLUDED IN THE COST FOR PRECAST CONCRETE BOX CULVERT. TIE RODS WILL BE 1 INCH DIAMETER STEEL AND SHALL MEET REQUIREMENTS OF ASTM A709 GRADE 36 OR EQUAL.

CULVERT TIE ASSEMBLIES SHALL BE GALVANIZED AFTER FABRICATION. THE LIMITS FOR EXCAVATION FOR THE PRECAST CONCRETE BOX CULVERT SHALL BE AS SHOWN ON THE "GRANULAR BEDDING DETAIL".

THE CONTRACTOR SHALL FURNISH AND INSTALL CULVERT TIES FOR ALL JOINTS. THE MAIN SECTION JOINTS WILL HAVE ONE TIE ON EACH SIDE OF THE BARREL AND THE LAST BARREL SECTION WILL BE ATTACHED TO THE END SECTIONS WITH TWO TIES PER SIDE.

CULVERT TIES SHALL BE INCLUDED IN THE COST FOR PRECAST CONCRETE BOX CULVERT. TIE RODS WILL BE 1 INCH DIAMETER STEEL AND SHALL MEET REQUIREMENTS OF ASTM A709 GRADE 36 OR EQUAL.

- THE CONTRACTOR SHALL SUBMIT DETAILS OF THE PROPOSED PRECAST BOX SECTIONS TO THE OFFICE OF BRIDGES AND STRUCTURES FOR ALL PROJECTS. THE DETAILS SHALL INCLUDE THE FOLLOWING INFORMATION AS FOUND ON THE "SUBMITTAL SHOP DRAWING" STANDARD SHEET:
- A. DIMENSION THE NUMBER OF PRECAST SECTIONS AND SECTION LENGTHS.
 - B. A DETAIL OF THE PRECAST BARREL SECTIONS SHOWING A CROSS SECTION VIEW OF THE SECTION, STEEL LOCATIONS, DIMENSIONS, ETC.
 - C. A DETAIL OF THE PRECAST CULVERT END SECTION SHOWING A CROSS SECTION VIEW OF THE SECTIONS, STEEL LOCATIONS, DIMENSIONS, ETC. SIMILAR TO THE END SECTION DETAILS SHOWN IN THE IDOT STANDARDS.

THE CONTRACTOR SHALL PROVIDE ALL INFORMATION SHOWN ON THE SUBMITTAL SHOP DRAWING SHEET REGARDLESS OF WHICH PRECAST BOX OPTION IS SELECTED.

APPROVAL OF DETAILS IS NOT REQUIRED FOR PROJECTS CONFORMING TO "IDOT STANDARDS." HOWEVER, THE DETAILS SHALL BE RECEIVED BY THE ENGINEER PRIOR TO THE START OF FABRICATION.

APPROVAL OF DETAILS IS REQUIRED FOR "NONSTANDARD" PRECAST BOX OPTIONS. THE CONTRACTOR SHALL ALLOW THIRTY WORKING DAYS FOR THE ENGINEER'S REVIEW PRIOR TO THE START OF FABRICATION.

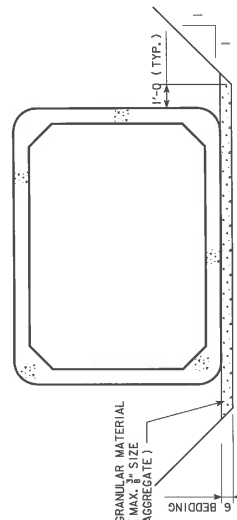
DETAILS REQUIRING APPROVAL SHALL BE DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER CURRENTLY REGISTERED IN THE STATE OF IOWA. BOXCAR SOFTWARE VERSION 3.1 OR LATER OR OTHER EQUIVALENT SOFTWARE CAN BE USED TO DESIGN THE PRECAST BOX CULVERT BARREL SECTIONS, PROVIDING THE ANALYSIS MEETS THE MINIMUM REQUIREMENTS ESTABLISHED FOR THE IDOT STANDARDS AS FOUND IN THE IDOT BRIDGE DESIGN MANUAL. THE MINIMUM REQUIREMENTS INCLUDE REINFORCEMENT CLEARANCE REQUIREMENTS USED IN THE "IDOT STANDARDS."

INSTALLATION NOTES:

PRECAST CONCRETE BOX CULVERT SECTIONS SHALL BE LAID WITH THE GROOVE END OF EACH SECTION UP-GRADE, AND THE SECTIONS SHALL BE TIGHTLY JOINED. CONCRETE TIES TO BE USED ONLY TO HOLD BOX SECTIONS TOGETHER, NOT FOR PULLING SECTIONS TOGETHER. OPENINGS BETWEEN SECTIONS SHALL BE FILLER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAXIMUM OF 3 INCH OPENINGS. THE JOINT ON THE BOTTOM OF THE CULVERT SHALL BE SEALED WITH A FLEXIBLE WATER TIGHT 1 INCH BUTYL ROPE GASKET AS PER MATERIALS I.M. 491.09.

BUTYL ROPE GASKET SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER AND SHALL EXTEND VERTICALLY 6 INCHES ABOVE THE BOTTOM FILLET. ALL JOINTS SHALL BE TRIMMED CLEAN. THE CONTRACTOR SHALL PLACE A 2 FOOT WIDE PIECE OF ENGINEERING FABRIC AROUND THE TOP AND SIDES OF EACH PRECAST JOINT. THE FABRIC SHALL BE CENTERED WITH 1 FOOT ON EACH SIDE OF THE JOINT. THE FABRIC SHALL BE ATTACHED TO THE WALLS AND TOP OF EACH SECTION TO PREVENT THE FABRIC FROM SLIPPING OFF THE JOINT DURING BACKFILLING OPERATIONS. ATTACHMENT METHODS SHALL BE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION OF THE ENGINEERING FABRIC AND INSTALLING IT AS REQUIRED. SHALL BE INCLUDED IN THE BID ITEMS "PRECAST CONCRETE BOX CULVERT". THE ENGINEERING FABRIC SHALL BE IN ACCORDANCE WITH ARTICLE 4196.01, B, 3, OF THE STANDARD SPECIFICATIONS.

DURING BACKFILLING THE COMPACTION ADJACENT TO THE BOTTOM CORNER JOINT OR CHAMFER SHALL BE ACCOMPLISHED WITH A MECHANICAL HAND TAMPER. THE CONTRACTOR SHALL FURNISH AND INSTALL LIFTING HOLE PLUGS FOR EACH SECTION. LIFTING HOLES SHALL BE PLUGGED WITH A PRECAST CONCRETE PLUG OR PLASTIC PLUG APPROVED BY THE ENGINEER. SEALED AND COVERED WITH A 2' x 2' PIECE OF ENGINEERING FABRIC CENTERED OVER THE HOLE AND ATTACHED TO THE SECTION TO PREVENT THE FABRIC FROM SLIPPING.



GRANULAR BEDDING DETAIL
GRANULAR MATERIAL SHALL TERMINATE 3'-0 SHORT OF THE PRECAST CURTAIN WALL.



SPECIFICATIONS:

DESIGN:
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 5TH ED., SERIES OF 2010.

CONSTRUCTION:
IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, CURRENT SERIES, PLUS APPLICABLE GENERAL SUPPLEMENTAL SPECIFICATIONS, DEVELOPMENTAL SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.

DESIGN STRESSES:

DESIGN STRESSES FOR THE FOLLOWING MATERIALS ARE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 5TH ED., SERIES OF 2010:
THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 5TH ED., SERIES OF 2010, BAR REINFORCEMENT IN ACCORDANCE WITH AASHTO LRFD SECTION 5, GRADE 60, WELDED WIRE REINFORCEMENT IN ACCORDANCE WITH AASHTO LRFD SECTION 5, CONCRETE IN ACCORDANCE WITH AASHTO LRFD SECTION 5, 7°C FOR BARREL SECTIONS AS NOTED ON CULVERT BARREL DETAIL STANDARDS.

STANDARDS: FOR DETAILS AND NOTES NOT SHOWN REFER TO THE FOLLOWING IOWA D.O.T. - HIGHWAY STANDARDS:	
STANDARD	ISSUED
PCRB 61-13	JANUARY-2013 *
PCRB 02-13	JANUARY-2013 *
PCRB 8-13	JANUARY-2013 *

CLASS 20 EXCAVATING AND BEDDING WILL BE INCIDENTAL TO THE RCB BOX CULVERT ITEMS.

GENERAL NOTES & QUANTITIES

CITY OF WATERLOO

BLACK HAWK

COUNTY

PROJECT NUMBER

SHEET NUMBER

U.07

STP-U-8155(731)--70-07

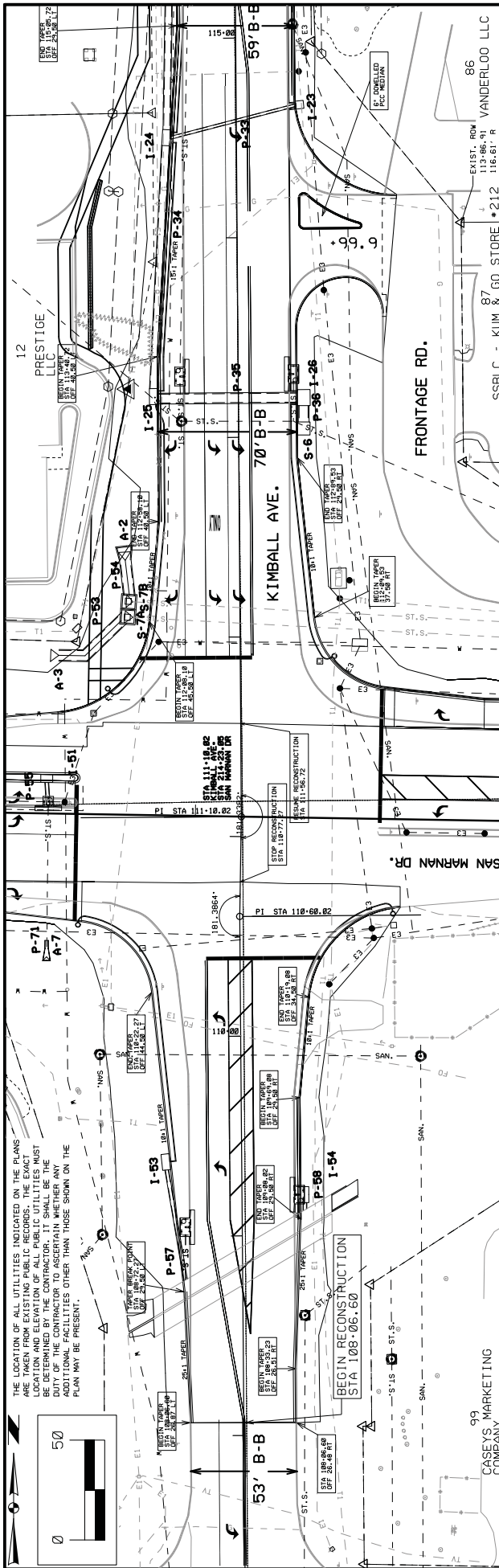
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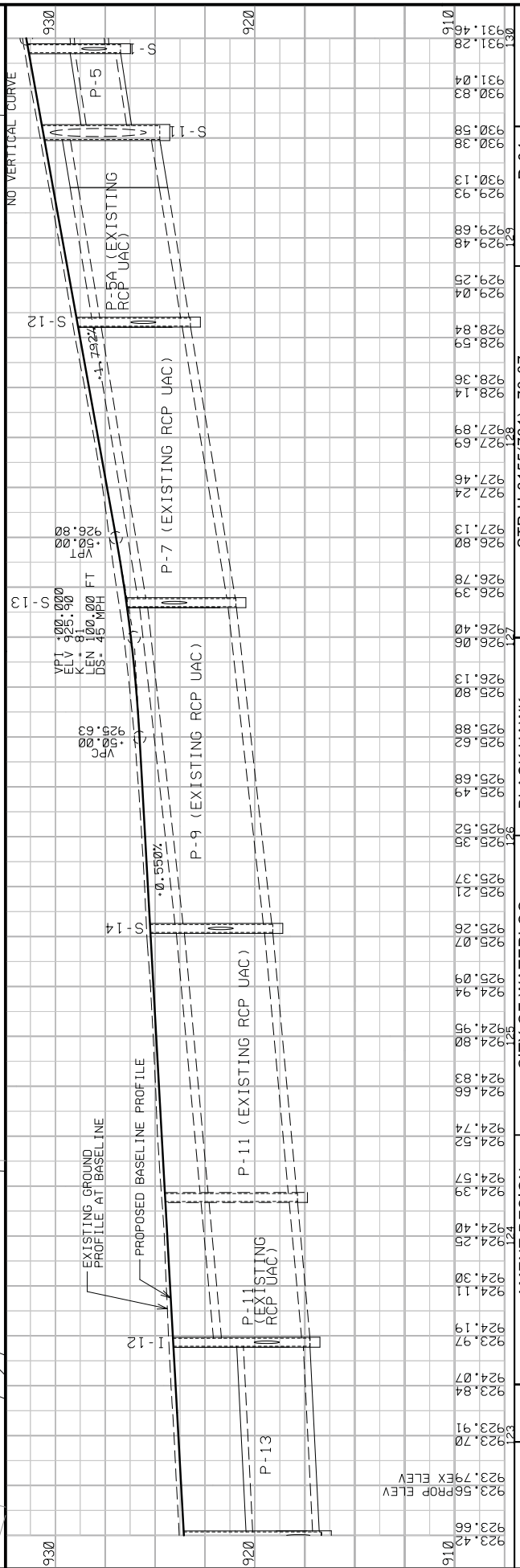
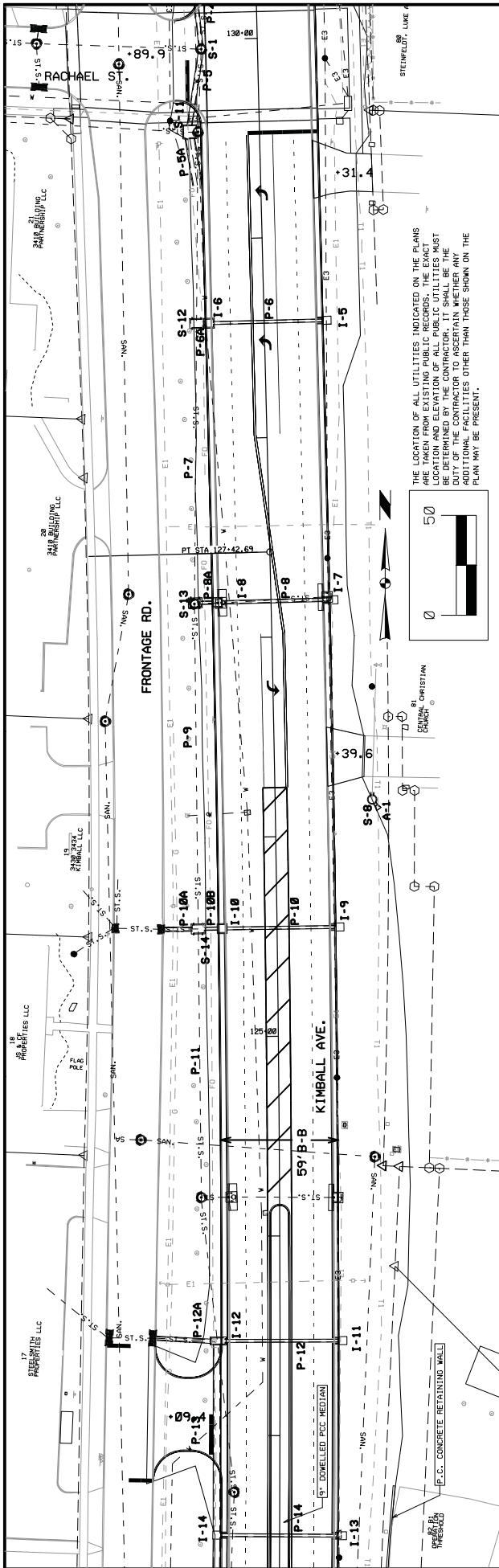
DESIGN TEAM

IOWA DOT

ENGLISH

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