A d d e n d u m

Iowa Department of Transportation
Office of Contracts

Date of Letting: June 21, 2016
Date of Addendum: June 9, 2016

B.O.	Proposal ID	Proposal Work Type	County	Project Number	Addendum
102	31-0321-037	PCC PAVEMENT - GRADE AND NEW	DUBUQUE	NHSX-032-1(37)--3H-31	21JUN102.A01

Make the following changes to the PROPOSAL SCHEDULE OF PRICES:

Delete Proposal Line No. 0060 2102-5020010 OBLITERATE OLD ROADBED; 4.300 STA

Change Proposal Line No. 0190
From: 2301-1003090 STANDARD OR SLIP-FORM PORTLAND CEMENT CONCRETE PAVEMENT, QM-C, CLASS 3 DURABILITY, 9 IN.
To: 2301-1032090 STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS2 DURABILITY, 9 IN.

Change Proposal Line No. 0200:
From: 2301-1003100 STANDARD OR SLIP-FORM PORTLAND CEMENT CONCRETE PAVEMENT QM-C, CLASS 3 DURABILITY, 10 IN.
To: 2301-1034100 STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3I DURABILITY, 10 IN.

Change Proposal Line No. 0250 2401-6745910 REMOVAL OF SIGN:
From: 13.000 EACH
To: 12.000 EACH

Change Proposal Line No. 0440 2435-0250100 INTAKE, SW-501:
From: 41.000 EACH
To: 37.000 EACH

Change Proposal Line No. 0450 2435-0250248 INTAKE, SW-502, 48 IN.:
From: 4.000 EACH
To: 7.000 EACH

Change Proposal Line No. 0460 2435-0250260 INTAKE, SW-502, 60 IN.:
From: 2.000 EACH
To: 3.000 EACH

Change Proposal Line No. 0480 2435-0250500 INTAKE, SW-505:
From: 7.000 EACH
To: 6.000 EACH

Change Proposal Line No. 0490 2435-0250700 INTAKE, SW-507:
From: 13.000 EACH
To: 12.000 EACH

Change Proposal Line No. 0500 2435-0250900 INTAKE, SW-509:
From: 2.000 EACH
To: 3.000 EACH

Change Proposal Line No. 0590 2503-0114215 STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RPC), 2000D (CLASS III), 18 IN.:
From: 4,634.000 LF
To: 4,664.000 LF

Change Proposal Line No. 0620 2503-0114230 STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 30 IN.:
From: 374.000 LF
To: 805.000 LF

Change Proposal Line No. 0700 2507-3250005 ENGINEERING FABRIC:
From: 53.100 SY
To: 617.500 SY

Add Proposal Line No. 0715 2507-8029000 EROSION STONE; 240.000 TON

Change Proposal Line No. 0790 2524-6765010 REMOVE AND REINSTALL SIGN AS PER PLAN:
From: 36.000 EACH
To: 37.000 EACH

Change Proposal Line No. 1060 2554-0203000 FITTING BY WEIGHT, DUCTILE IRON:
From: 3,652.000 LB
To: 4,372.000 LB

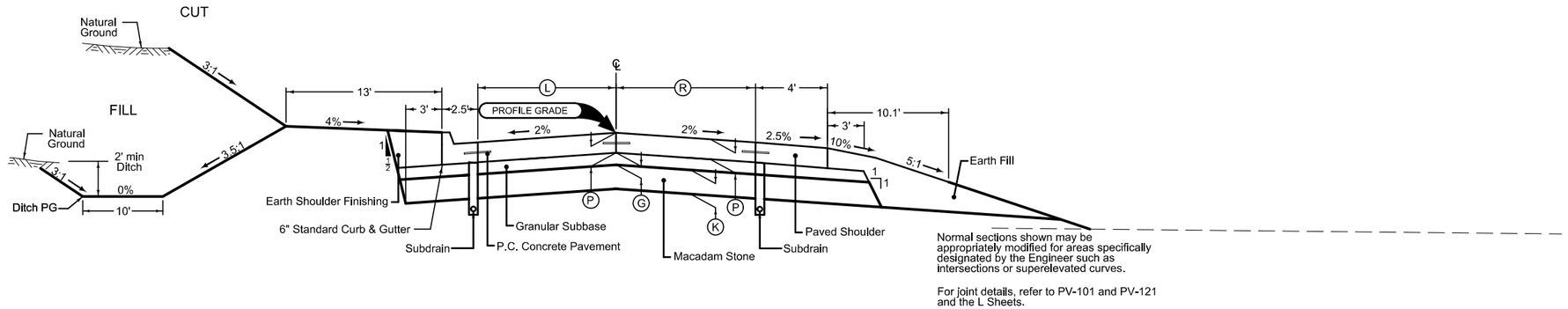
Change Proposal Line No. 1180 2599-9999009 (‘LINEAR FEET’ ITEM) FIBER OPTIC CABLE:
From: 2,250.000 LF
To: 2,510.000 LF

Add Proposal Line No. 1215 2601-2634105 MULCHING, BONDED FIBER MATRIX; 14.700 ACRE

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

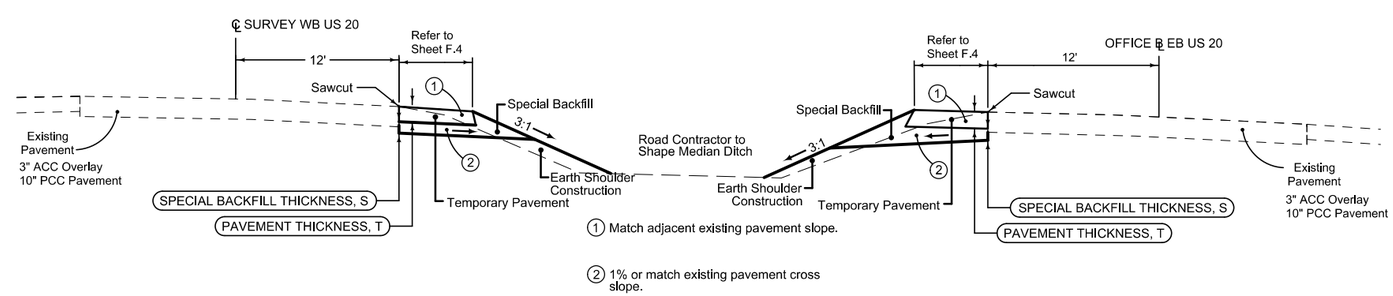
Replace SHEETS: B.8, B.9, C.2, C.3, M.1, M.2, M.5, M.17, M.18, and M.26 with the ATTACHED

WHKS 13



NORTH FRONTAGE ROAD
TYPICAL SECTION

LOCATION			DIMENSIONS				
ROAD IDENTIFICATION	STATION TO STATION		(L) Feet	(R) Feet	(P) Inches	(G) Inches	(K) Inches
NORTH FRONTAGE ROAD	2197+87.74	2199+21.88	9.5	9.5	9	6	12

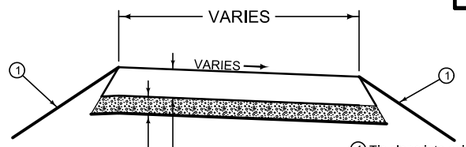


US 20 DETOUR PAVING - STAGE 2
TYPICAL CROSS SECTION

LOCATION			DIMENSIONS		
ROAD IDENTIFICATION	STATION TO STATION		(T) PCC Inches	(T) HMA Inches	(S) Inches
EB US 20, STAGE 2	1258+93.62	2273+69.17	8.5	10.5	12
WB US 20, STAGE 2	1261+86.07	3273+67.49	8.5	10.5	12

Changed by Addenda

Detour_1



1 Tie slope into existing ground with at least a 3:1 Foreslope

PAVEMENT THICKNESS, T

SPECIAL BACKFILL THICKNESS, S

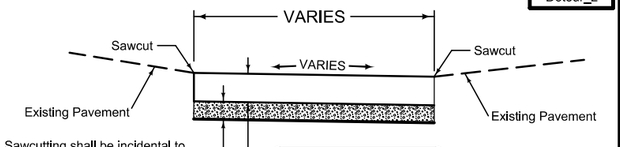
Quantity calculations based on vertical pavement edges.

Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.

TEMPORARY DETOUR PAVING

LOCATION			DIMENSIONS		
ROAD IDENTIFICATION	STATION TO STATION		T PCC Inches	T HMA Inches	S Inches
OLD QUARRY RD, STAGE 1	12283+35.61	12284+65.50	8.5	10.5	12
SOUTH FRONTAGE, STAGE 1	10168+81.92	10169+66.22	8.5	10.5	12
MENARDS F.R., STAGE 2	139+84.54	140+50.00	8.5	10.5	12

Detour_2



Sawcutting shall be incidental to the temporary detour paving.

PAVEMENT THICKNESS, T

SPECIAL BACKFILL THICKNESS, S

Quantity calculations based on vertical pavement edges.

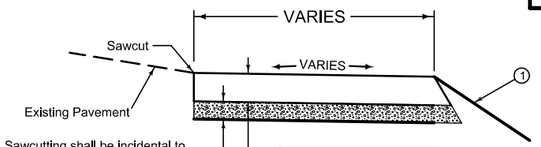
Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.

TEMPORARY DETOUR PAVING

Detour Pavement adjacent to Proposed Pavement is to be jointed if PCC is used

LOCATION			DIMENSIONS		
ROAD IDENTIFICATION	STATION TO STATION		T PCC Inches	T HMA Inches	S Inches
EB US 20, STAGE 2	2273+69.17	2281+62.25	8.5	10.5	12
EB US 20, STAGE 2	2282+75.31	2284+99.01	8.5	10.5	12
EB US 20, STAGE 2	2285+78.81	1295+48.49	8.5	10.5	12
EB US 20, STAGE 2	1296+35.18	1300+49.59	8.5	10.5	12
OLD HIGHWAY RD, STAGE 3	1192+78.56	1193+72.26	8.5	10.5	12
WB US 20, STAGE 4	3274+12.00	3274+27.00	8.5	10.5	12
WB US 20, STAGE 4	3287+17.00	3287+85.05	8.5	10.5	12
EB US 20, STAGE 5	2277+76.95	2279+68.00	8.5	10.5	12
EB US 20, STAGE 5	2281+24.00	2287+84.61	8.5	10.5	12
WB US 20, STAGE 5	3273+48.35	3279+67.00	8.5	10.5	12

Detour_3



Sawcutting shall be incidental to the temporary detour paving.

PAVEMENT THICKNESS, T

SPECIAL BACKFILL THICKNESS, S

Quantity calculations based on vertical pavement edges.

Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.

1 Tie slope into existing ground with at least a 3:1 Foreslope

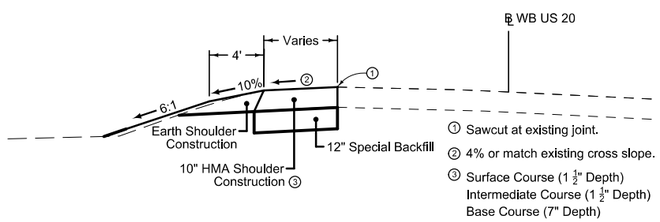
Detour Pavement adjacent to Proposed Pavement is to be jointed if PCC is used

TEMPORARY DETOUR PAVING

LOCATION			DIMENSIONS		
ROAD IDENTIFICATION	STATION TO STATION		T PCC Inches	T HMA Inches	S Inches
OLD HIGHWAY RD, STAGE 1	1193+05.56	1196+62.52	8.5	10.5	12
OLD HIGHWAY RD, STAGE 1	1196+93.70	1197+84.23	8.5	10.5	12
OLD HIGHWAY RD, STAGE 1	1198+31.60	1198+65.38	8.5	10.5	12
OLD QUARRY RD, STAGE 1	12284+79.84	12285+57.77	8.5	10.5	12
EB US 20, STAGE 3	2281+78.00	2282+08.19	8.5	10.5	12
EB US 20, STAGE 3	2282+46.59	2283+43.00	8.5	10.5	12
OLD HIGHWAY ROAD, STAGE 3	1191+93.28	1192+78.56	8.5	10.5	12
WB US 20, STAGE 4	3281+35.00	3281+85.62	8.5	10.5	12
WB US 20, STAGE 4	3282+46.59	3282+97.00	8.5	10.5	12
OLD HIGHWAY RD, STAGE 4	1193+72.57	11197+22.00	8.5	10.5	12
OLD HIGHWAY RD, STAGE 4	11197+22.00	11197+37.00	8.5	10.5	12
N FRONTAGE RD, STAGE 4	2197+81.60	2199+13.67	8.5	10.5	12

Shld_1

FULL DEPTH SHOULDER WIDENING



LOCATION			DIMENSIONS
ROAD IDENTIFICATION	STATION TO STATION		Area SY
WB US 20	3287+85.00	1295+81.17	57.2

Changed by Addenda

ESTIMATED PROJECT QUANTITIES
(UP TO A 5 DIVISION PROJECT)

Division 1: IOWA DOT COST (ROADWAY)
Division 2: CITY OF DUBUQUE COST (80% FEDERAL STP FUNDS AND 20% CITY FUNDS)
Division 3: 70% DOT AND 30% CITY OF DUBUQUE COST
Division 4: IOWA DOT COST (RETAINING WALL)
Division 5: FEDERAL NON-PARTICIPATING (CITY COST)

Item No.	Item Code	Item	Unit	Quantities										
				Estimated						As Built				
				Division 1	Division 2	Division 3	Division 4	Division 5	Total	Division 1	Division 2	Division 3	Division 4	Division 5
1	2101-0850001	CLEARING AND GRUBBING	ACRE	8.4					8.4					
2	2102-0425070	SPECIAL BACKFILL	TON	6168.2					6168.2					
3	2102-2625001	EMBANKMENT-IN-PLACE, CONTRACTOR FURNISHED	CY	62328					62328					
4	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	58123					58123					
5	2102-2712015	EXCAVATION, CLASS 12, BOULDERS OR ROCK FRAGMENTS	CY	123					123					
6	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	17095					17095					
7	2107-0875000	COMPACTION WITH MOISTURE AND DENSITY CONTROL	CY	4845					4845					
8	2107-0875100	COMPACTION WITH MOISTURE CONTROL	CY	102205					102205					
9	2111-8174100	GRANULAR SUBBASE	SY	28684.7					28684.7					
10	2115-0100000	MODIFIED SUBBASE	CY	14979.3					14979.3					
11	2121-7425010	GRANULAR SHOULDERS, TYPE A	TON	1779					1779					
12	2122-5190010	PAVED SHOULDER, P.C. CONCRETE, 10 IN.	SY	2446.4					2446.4					
13	2122-5500100	PAVED SHOULDER, HOT MIX ASPHALT, 10 IN.	SY	57.2					57.2					
14	2123-7450000	EARTH SHOULDER CONSTRUCTION	STA	89.1					89.1					
15	2123-7450020	EARTH SHOULDER FINISHING	STA	111.1					111.1					
16	2210-0475290	MACADAM STONE BASE	TON	16517.4					16517.4					
17	2213-7100400	RELOCATION OF MAILBOXES	EACH	10					10					
18	2301-1032090	STANDARD OR SLIP-FORM PORTLAND CEMENT CONCRETE PAVEMENT,	SY	22877.2					22877.2					
		CLASS C, CLASS 2 DURABILITY, 9 IN.												
19	2301-1034100	STANDARD OR SLIP-FORM PORTLAND CEMENT CONCRETE PAVEMENT,	SY	20815.6					20815.6					
		CLASS C, CLASS 3I DURABILITY, 10 IN.												
20	2301-4875006	MEDIAN, P.C. CONCRETE, 6 IN.	SY	1628.2					1628.2					
21	2304-0100000	DETOUR PAVEMENT	SY	11679.2					11679.2					
22	2315-8275025	SURFACING, DRIVEWAY, CLASS A CRUSHED STONE	TON	34.1					34.1					
23	2401-6745354	REMOVAL OF CONCRETE FOOTINGS, AS PER PLAN	EACH	14					14					
24	2401-6745910	REMOVAL OF SIGN	EACH	12					12					
25	2401-6750001	REMOVALS, AS PER PLAN	LS	1					1					
26	2402-2720000	EXCAVATION, CLASS 20	CY	5400					5400					
27	2402-2720100	EXCAVATION, CLASS 20, FOR ROADWAY PIPE CULVERT	CY	208.7					208.7					
28	2403-0100000	STRUCTURAL CONCRETE (MISC)	CY	30.9					30.9					
29	2403-0100020	STRUCTURAL CONCRETE (RCB CULVERT)	CY	25					25					
30	2404-7775005	REINFORCING STEEL, EPOXY COATED	LB	5494					5494					
31	2416-0100015	APRONS, CONCRETE, 15 IN. DIA.	EACH	1	2				3					
32	2416-0100024	APRONS, CONCRETE, 24 IN. DIA.	EACH	5		3			8					
33	2416-0100030	APRONS, CONCRETE, 30 IN. DIA.	EACH	1					1					
34	2416-0100042	APRONS, CONCRETE, 42 IN. DIA.	EACH	1					1					
35	2416-1180024	CULVERT, CONCRETE ROADWAY PIPE, 24 IN. DIA.	LF	30					30					
36	2416-1180030	CULVERT, CONCRETE ROADWAY PIPE, 30 IN. DIA.	LF	14					14					
37	2417-0225030	APRONS, METAL, 30 IN. DIA.	EACH	1					1					
38	2417-1060030	CULVERT, CORRUGATED METAL ROADWAY PIPE, 30 IN. DIA.	LF	72					72					
39	2435-0140148	MANHOLE, STORM SEWER, SW-401, 48 IN.	EACH			1			1					
40	2435-0140160	MANHOLE, STORM SEWER, SW-401, 60 IN.	EACH			1			1					
41	2435-0250100	INTAKE, SW-501	EACH		32	5			37					
42	2435-0250248	INTAKE, SW-502, 48 IN.	EACH		6	1			7					
43	2435-0250260	INTAKE, SW-502, 60 IN.	EACH		1	2			3					
44	2435-0250272	INTAKE, SW-502, 72 IN.	EACH			2			2					
45	2435-0250500	INTAKE, SW-505	EACH	1	5				6					
46	2435-0250700	INTAKE, SW-507	EACH	12					12					
47	2435-0250900	INTAKE, SW-509	EACH	2	1				3					
48	2435-0254100	INTAKE, SW-541	EACH	9					9					
49	2435-0256200	INTAKE, SW-562	EACH	1					1					
50	2435-0600010	MANHOLE ADJUSTMENT, MINOR	EACH		1				1					
51	2435-0600020	MANHOLE ADJUSTMENT, MAJOR	EACH		16				16					
52	2499-4000036	SLIPLINING EXISTING CULVERTS, LESS THAN OR EQUAL TO 36 IN. DIA. OR HEIGHT	LF	172.7					172.7					
53	2502-8212036	SUBDRAIN, LONGITUDINAL, (SHLD) 6"	LF	5951	8667				14618					
54	2502-8221303	SUBDRAIN OUTLET, DR-303	EACH	50	107				157					
55	2502-8221304	SUBDRAIN OUTLET, DR-304	EACH	7	1				8					
56	2503-0114215	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE	LF	1982	1587	1095			4664					
		PIPE (RCP), 2000D (CLASS III), 15 IN.												
57	2503-0114218	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE	LF	53		222			275					
		PIPE (RCP), 2000D (CLASS III), 18 IN.												
58	2503-0114224	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE	LF	503		1219			1722					
		PIPE (RCP), 2000D (CLASS III), 24 IN.												
59	2503-0114230	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE	LF			805			805					
		PIPE (RCP), 2000D (CLASS III), 30 IN.												
60	2503-0114642	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE	LF	144					144					
		PIPE (RCP), 3750D (CLASS V), 42 IN.												
61	2503-0124215	STORM SEWER GRAVITY MAIN, TRENCHLESS, REINFORCED CONCRETE	LF			70			70					
		PIPE (RCP), 2000D (CLASS III), 15 IN.												
62	2503-0200036	REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN.	LF	57					57					
63	2505-6000111	HIGH TENSION CABLE GUARDRAIL	LF	3515					3515					
64	2505-6000121	HIGH TENSION CABLE GUARDRAIL, END ANCHOR	EACH	4					4					
65	2505-6000131	HIGH TENSION CABLE GUARDRAIL, SPARE PARTS KIT	EACH	1					1					
66	2506-4984000	FLOWABLE MORTAR	CY	21.9					21.9					
67	2507-3250005	ENGINEERING FABRIC	SY	617.5					617.5					
68	2507-6800061	REVETMENT, CLASS E	TON	49					49					
69	2507-8029000	EROSION STONE	TON	240					240					
70	2510-6745850	REMOVAL OF PAVEMENT	SY	30129.3					30129.3					
71	2510-6750600	REMOVAL OF INTAKES AND UTILITY ACCESSES	EACH	2					2					
72	2515-2475006	DRIVEWAY, P.C. CONCRETE, 6 IN.	SY	1293					1293					

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				Division 1	Division 2	Division 3	Division 4	Division 5	Total	Division 1	Division 2	Division 3	Division 4	Division 5
73	2518-6745880	REMOVAL OF ROAD CLOSURE BARRICADE	EACH	1					1					
74	2518-6891820	PERMANENT ROAD CLOSURE, URBAN, SI-182	EACH	2					2					
75	2518-6910000	SAFETY CLOSURE	EACH	23					23					
76	2524-6765010	REMOVE AND REINSTALL SIGN AS PER PLAN	EACH	37					37					
77	2524-6765014	REMOVE AND REINSTALL MILEPOST MARKER	EACH	2					2					
78	2524-6765015	REMOVE AND REINSTALL DELINEATOR POSTS	EACH	16					16					
79	2524-9089100	DELINEATOR, RIGID - TYPE I	EACH	5					5					
80	2524-9275222	WOOD POSTS FOR TYPE A OR B SIGNS, 4" X 6"	LF	42					42					
81	2524-9325001	TYPE A SIGNS, SHEET ALUMINUM	SF	22					22					
82	2525-0000100	TRAFFIC SIGNALIZATION	LS	1					1					
83	2525-0000120	REMOVAL OF TRAFFIC SIGNALIZATION	LS	1					1					
84	2526-8285000	CONSTRUCTION SURVEY	LS	1					1					
85	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	STA	1122.36					1122.36					
86	2527-9263112	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE	STA	592.03					592.03					
87	2527-9263131	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS	STA	378.59					378.59					
88	2527-9263137	PAINTED SYMBOLS AND LEGENDS, WATERBORNE OR SOLVENT-BASED	EACH	63					63					
89	2527-9263138	PAINTED SYMBOLS AND LEGENDS, HIGH-BUILD WATERBORNE	EACH	66					66					
90	2527-9263180	PAVEMENT MARKINGS REMOVED	STA	1311.78					1311.78					
91	2527-9263190	SYMBOLS AND LEGENDS REMOVED	EACH	84					84					
92	2528-8400048	TEMPORARY BARRIER RAIL, CONCRETE	LF	8696					8696					
93	2528-8445110	TRAFFIC CONTROL	LS	1					1					
94	2528-9109020	TEMPORARY LANE SEPARATOR SYSTEM	LF	2301					2301					
95	2533-4980005	MOBILIZATION	LS	1					1					
96	2551-0000110	TEMP CRASH CUSHION	EACH	5					5					
97	2554-0112008	WATER MAIN, TRENCHED, DIP, 8"	LF		45				45					
98	2554-0112010	WATER MAIN, TRENCHED, DIP, 10"	LF		75				75					
99	2554-0112012	WATER MAIN, TRENCHED, DIP, 12"	LF		283				283					
100	2554-0112016	WATER MAIN, TRENCHED, DIP, 16"	LF		1492				1492					
101	2554-0122012	WATER MAIN, TRENCHLESS, DIP, 12"	LF		100				100					
102	2554-0132012	WATER MAIN WITH CASING PIPE, TRENCHED, DIP, 12"	LF		44				44					
103	2554-0203000	FITTINGS BY WEIGHT, DI	LBS		4372				4372					
104	2554-0204110	WATER SERVICE STUB, COPPER, 1"	EACH		2				2					
105	2554-0206000	VALVE, BUTTERFLY, DIP, 16"	EACH		6				6					
106	2554-0207008	VALVE, GATE, DIP, 8"	EACH		1				1					
107	2554-0207010	VALVE, GATE, DIP, 10"	EACH		1				1					
108	2554-0207012	VALVE, GATE, DIP, 12"	EACH		2				2					
109	2554-0210201	FIRE HYDRANT ASSEMBLY, WM-201	EACH		5				5					
110	2555-0000010	DELIVER AND STOCKPILE SALVAGED MATERIALS	LS					1	1					
111	2599-9999005	CONNECT TO EXISTING VAULT OR HANDHOLE	EACH	1					1					
112	2599-9999005	CORE DRILL VAULT OR HANDHOLE	EACH	5					5					
113	2599-9999005	FIBER VAULT, SQUARE	EACH	3					3					
114	2599-9999009	BUNDLED MICRODUCT CONDUIT	LF	4627					4627					
115	2599-9999009	FIBER OPTIC CABLE	LF	2510					2510					
116	2599-9999009	WATER MAIN, REMOVAL	LF		1580				1580					
117	2601-2633100	MOWING	ACRE	16.6					16.6					
118	2601-2634100	MULCHING	ACRE	16.6					16.6					
119	2601-2634105	MULCHING, BONDED FIBER MATRIX	ACRE	14.7					14.7					
120	2601-2636043	SEEDING AND FERTILIZING (RURAL)	ACRE	1.9					1.9					
121	2601-2636044	SEEDING AND FERTILIZING (URBAN)	ACRE	14.7					14.7					
122	2602-0000020	SILT FENCE	LF	18100					18100					
123	2602-0000030	SILT FENCE FOR DITCH CHECKS	LF	3530					3530					
124	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	2860					2860					
125	2602-0000101	MAINT OF SILT FENC/SILT FENC-DITCH CHECK	LF	7522					7522					
126	2602-0000160	ROCK CHECK DAM	LF	797					797					
127	2602-0000170	MAINT OF ROCK CHECK DAM	EACH	126					126					
128	2602-0000309	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 9 IN. DIA.	LF	2070					2070					
129	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	200					200					
130	2602-0000320	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 20 IN. DIA.	LF	200					200					
131	2602-0000350	REMOVAL OF PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE	LF	2470					2470					
132	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	1					1					
133	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	1					1					
		REFER TO V SHEETS FOR RETAINING WALL QUANTITIES												

STORM SEWER

(1) Diameter or equivalent diameter

* Bid Item
** For SW-545

*** Construct the bottom of structure and cover with steel plate. Construct top in later stage.
**** Construct the top of the structure constructed in previous stage.

INTAKES AND UTILITY ACCESSES

No.	Location Station and Offset	*Type or Standard Road Plan	Form Grade Elev.	Bottom Well Elev.	Extension Length** FT	Notes
	US 20					
E-1	EB 1258+87.90 24.20 LT	INTAKE	814.1			REMOVE
E-2	EB 1259+44.20 23.70 LT	MANHOLE	814.3			REMOVE
Stage 1						
	Menards Frontage Rd.					
I-20	151+44.00 20.50 RT	SW-501	819.32	808.08		Div. (2)
I-16	151+44.00 20.50 LT	SW-502 (60")	819.33	805.84		Div. (3)
I-51	152+92.00 20.50 LT	SW-502 (48")	816.93	804.26		Div. (2)
I-50	152+92.00 20.50 RT	SW-501	816.93	808.95		Div. (2)
I-14	153+30.00 20.50 LT	SW-505	816.82	812.22		Div. (2)
I-15	153+30.00 20.50 RT	SW-505	816.82	811.72		Div. (2)
I-41	153+69.00 20.50 LT	SW-501	816.92	812.9		Div. (2)
I-99	153+69.00 20.50 RT	SW-501	816.92	812.15		Div. (2)
I-55	154+64.00 22.00 LT	SW-501	818.04	813.69		Div. (2)
I-56	154+64.00 19.00 RT	SW-501	818.13	813.19		Div. (2)
I-13	157+20.00 25.90 LT	SW-501	825.14	820.85		Div. (2)
I-12	158+21.00 19.90 RT	SW-501	828.43	823		Div. (2)
I-11	159+99.00 38.30 RT	SW-501	833.71	829.33		Div. (2)
I-10	159+99.00 26.50 LT	SW-501	833.62	823.62		Div. (2)
I-39	162+06.00 50.52 RT	SW-501	839.81	829.8		Div. (2)
I-9	162+03.00 26.45 LT	SW-501	839.76	827.7		Div. (2)
I-8	163+59.00 57.25 RT	SW-501	843.37	839.12		Div. (2)
	Relocated Westside Ct.					
I-18	19150+57.00 14.50 LT	SW-501	814.43	809.9		Div. (2)
I-19	19150+42.00 14.50 RT	SW-501	813.86	809.86		Div. (2)
	South Frontage Rd.					
I-100	10162+99.00 15.50 RT	SW-501	836.49	832.49		Div. (2)
I-102	10162+99.00 19.50 LT	SW-501	836.41	832		Div. (2)
I-4	10163+30.00 15.50 RT	SW-505	836.38	831.61		Div. (2)
I-7	10163+30.00 19.50 LT	SW-509	836.3	830.4		Div. (2)
I-101	10163+58.00 15.50 RT	SW-501	836.45	832.45		Div. (2)
I-103	10163+58.00 19.50 LT	SW-502 (48")	836.37	832		Div. (2)
I-6	10165+11.00 15.50 LT	SW-502 (48")	839.53	835.5		Div. (2)
I-5	10166+30.00 15.50 LT	SW-502 (48")	843.09	838.59		Div. (2)
I-3	10166+90.00 15.50 RT	SW-502 (48")	844.89	839.31		Div. (2)
I-54	10168+15.00 21.00 LT	SW-401 (48")	849.24	845.05		Div. (3)
Stage 2						
	Menards Frontage Rd.					
I-27	144+22.00 20.50 LT	SW-501	812.81	808.81		Div. (3)
I-29	142+27.00 20.50 LT	SW-501	811.29	807.15		Div. (2)
I-30	142+27.00 20.50 RT	SW-501	811.29	806.65		Div. (2)
I-32	140+18.00 20.50 RT	SW-501	809.66	804.5		Div. (2)
I-31	140+18.00 20.50 LT	SW-501	809.66	805.66		Div. (2)
I-17	144+82.00 20.50 RT	SW-501	813.28	809.28		Div. (2)
I-26	144+82.00 20.50 LT	SW-501	813.28	809.28		Div. (3)
I-25	145+43.00 20.50 LT	SW-501	813.75	809.75		Div. (3)
I-28	146+03.00 20.50 RT	SW-501	814.37	810.37		Div. (2)
I-24	146+03.00 20.50 LT	SW-501	814.37	810.18		Div. (3)
I-57	146+62.00 20.50 LT	SW-501	815.33	811		Div. (3)
I-123	147+11.40 54.50 LT	SW-401 (60")	823.25	812		Div. (3)
I-23	147+11.00 20.50 LT	SW-502 (72")	816.39	811		Div. (3)
I-58	147+97.00 20.50 RT	SW-501	818.61	811.29		Div. (2)
I-22	147+97.00 20.50 LT	SW-502 (60")	818.61	810.08		Div. (3)
I-21	148+86.00 20.50 LT	SW-502 (48")	820.89	808.72		Div. (3)
I-37	134+08.00 20.50 LT	SW-505	800.56	796.56		Div. (2)
I-38	134+08.00 20.50 RT	SW-505	800.57	796.2		Div. (2)
I-35	135+08.00 20.50 LT	SW-501	802.12	795.75		Div. (2)
I-36	135+08.00 20.50 RT	SW-502 (60")	802.12	794.75		Div. (2)

PIPES

Design Length, Slope, and Flowlines are calculated from inside wall to inside wall along CL of pipe. An additional 2 ft length is added to each side of the Design Length to account for estimated length to center of structures.

Line Number	Intake/ Utility Access No. From	To	Class 'D'	Pipe Size (1) IN	Bid* Length FT	Design Length FT	Slope %	Flow Lines Inlet Elevation	Outlet Elevation	Other Elevation	Pipe Profile Sheet No.	Notes
EP-1	E-1	E-2		18		57.0						REMOVE
Stage 1												
P-21	I-21	I-16	2000	30	42	40.0	1	807.04	806.64			Complete in Stage 2, Div. (3)
P-20	I-20	I-16	2000	15	40	36.0	2.4	808.58	807.83			Div. (2)
P-16	I-16	I-51	2000	30	153	149.0	1	806.34	804.85			Div. (3)
P-51	I-51	I-40	2000	30	179	175.0	2	804.76	801.26			Div. (3)
P-50	I-50	I-51	2000	15	42	38.0	1	809.45	809.08			Div. (2)
P-14	I-14	I-15	2000	15	41	37.0	1	812.72	812.32			Div. (2)
P-15	I-15	I-50	2000	15	41	37.0	1	812.22	811.85			Div. (2)
P-41	I-41	I-14	2000	15	40	36.0	1.5	813.4	812.82			Div. (2)
P-99	I-99	I-15	2000	15	38	34.0	1	812.65	812.32			Div. (2)
P-55	I-55	I-56	2000	15	44	40.0	1	814.19	813.79			Div. (2)
P-56	I-56	I-99	2000	15	99	95.0	1	813.69	812.75			Div. (2)
P-13	I-13	I-55	2000	15	260	256.0	2.8	821.35	814.3			Div. (2)
P-12	I-12	I-13	2000	15	115	111.0	1.9	823.5	821.45			Div. (2)
P-11	I-11	I-10	2000	15	65	61.0	2	829.83	828.62			Div. (2)
P-10	I-10		2000	15	44	42.0	1.5	824.12	823.4			Div. (2)
P-39	I-39	I-9	2000	24	79	75.0	1.3	830.3	829.3			Div. (3)
P-9	I-9		2000	24	65	63.0	2.7	828.2	826.51			Div. (3)
P-8	I-8	I-39	2000	15	183	179.0	3.2	839.62	834			Div. (3)
P-53	I-53	I-8	2000	15	159	155.0	3.2	844.66	839.72			Div. (1)
P-18	I-18	I-20	2000	15	120	116.0	0.7	810.4	809.65			Div. (2)
P-19	I-19	I-18	2000	15	37	33.0	0.6	810.7	810.5			Div. (2)
P-100	I-100	I-4	2000	15	34	30.0	2.7	833	832.2			Div. (2)
P-102	I-102	I-7	2000	15	27	23.0	4.5	832.5	831.5			Div. (2)
P-4	I-4	I-7	2000	15	35	31.0	3.6	832.11	831			Div. (2)
P-7	I-7	I-39	2000	24	128	124.0	0.4	830.9	830.4			Div. (3)
P-101	I-101	I-4	2000	15	30	26.0	3.1	833	832.2			Div. (2)
P-103	I-103	I-7	2000	24	24	20.0	5.1	832.5	831.5			Div. (3)
P-6	I-6	I-103	2000	24	133	129.0	2.6	836	832.6			Div. (3)
P-5	I-5	I-6	2000	24	120	116.0	2.6	839.09	836.06			Div. (3)
P-3	I-3	I-5	2000	24	69	65.0	0.5	839.81	839.53			Div. (3)
P-54	I-54	I-3	2000	24	131	127.0	4.5	845.55	839.91			Div. (3)
P-1	I-1	I-54	2000	24	130	128.0	1	846.88	845.65			Complete in Stage 3, Div. (3)
P-27	I-27	I-29	2000	15	198	194.0	0.9	809.51	807.75			Div. (3)
P-29	I-29	I-30	2000	15	41	37.0	1	807.65	807.24			Div. (3)
P-30	I-30	I-32	2000	15	211	207.0	1	807.15	805.08			Div. (3)
P-31	I-31	I-32	2000	15	41	37.0	1	806.16	805.76			Div. (2)
P-26	I-26	I-27	2000	15	62	58.0	0.5	809.9	809.61			Div. (3)
P-17	I-17	I-26	2000	15	41	37.0	0.6	810.5	810.28			Div. (2)
P-25	I-25	I-26	2000	15	63	59.0	0.5	810.29	810			Div. (3)
P-24	I-24	I-25	2000	15	62	58.0	0.5	810.68	810.39			Div. (3)
P-28	I-28	I-24	2000	15	41	37.0	0.9	811.1	810.78			Div. (2)
P-57	I-57	I-24	2000	15	61	57.0	1.3	811.5	810.78			Div. (3)
P-123	I-123	I-23	2000	30	34	30.0	3	812.5	811.6			Div. (3)
P-23	I-23	I-22	2000	30	86	82.0	1	811.5	810.69			Div. (3)
P-58	I-58	I-22	2000	15	40	36.0	3.1	811.79	810.68			Div. (2)
P-22	I-22	I-21	2000	30	90	86.0	1	810.58	809.73			Div. (3)
P-21	I-21	I-16	2000	30	221	219.0	1	809.22	807.04			Continue from Stage 1, Div. (3)
P-32	I-32	I-34	2000	15	214	210.0	1	805	802.9			Div. (3)
P-37	I-37	I-38	2000	15	41	37.0	1.5	797.35	796.8			Div. (2)
P-38	I-38	I-36	2000	15	101	97.0	0.8	796.7	795.9			Div. (2)
P-44		I-35	2000	24	25	23.0	1.9	797.85	797.3			Div. (1)
P-35	I-35	I-36	2000	24	41	37.0	1	796.25	795.88			Div. (3)
P-36	I-36	I-42	2000	24	77	73.0	1	795.25	794.5			Div. (3)

Changed by Addenda

(1) Diameter or equivalent diameter

STORM SEWER

* Bid Item
** For SW-545

*** Construct the bottom of structure and cover with steel plate. Construct top in later stage.
**** Construct the top of the structure constructed in previous stage.

INTAKES AND UTILITY ACCESSES

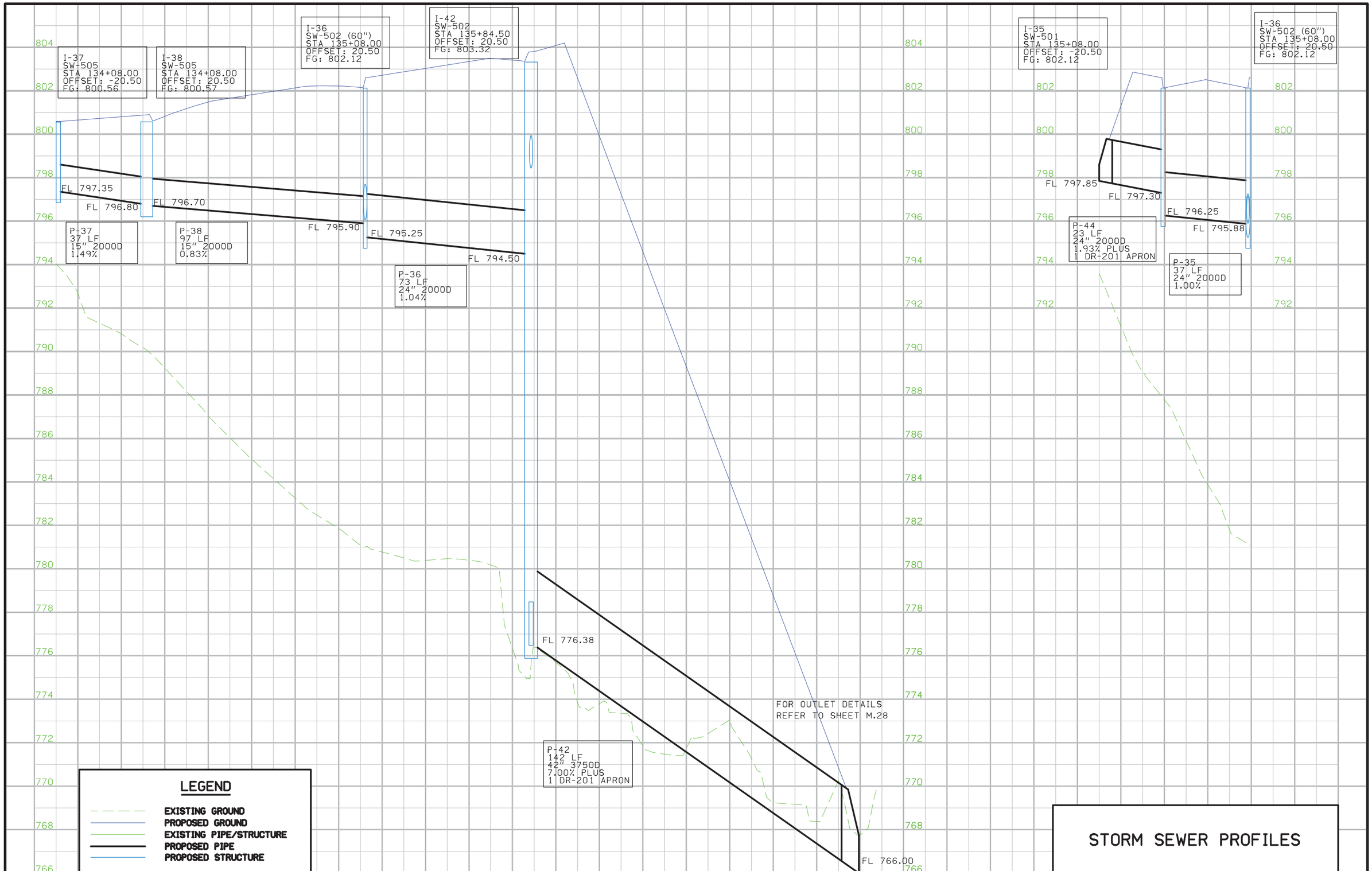
No.	Location Station and Offset	*Type or Standard Road Plan	Form Grade Elev.	Bottom Well Elev.	Extension Length** FT	Notes
I-42	135+84.50 20.50 RT	SW-502 (72")	803.32	775.88		Div. (3)
I-34	138+08.00 20.50 RT	SW-501	806.80	802.30		Div. (2)
I-33	138+08.00 20.50 LT	SW-501	806.80	802.80		Div. (2)
Stage 3						
I-1	10170+33.00 15.50 LT	SW-502 (48")	853.13	847.43		Div. (2)
I-53	2281+46.00 36.0' RT	SW-505	847.86	843.86		Div. (1)
Stage 4						
	US 20					
I-82	WB 3274+20.00 34.50 LT	SW-507L	837.26	831.07		Div. (1)
I-81	WB 3277+66.00 34.50 LT	SW-507L	842.15	834.56		Div. (1)
I-88	WB 3278+64.00 69.50 LT	SW-562	839.28	835.28		Div. (1)
I-72	WB 3281+18.15 46.00 LT	SW-509S	847.21	842.65		Div. (1)
I-78	WB 3281+42.00 37.50 LT	SW-507L	847.42	842.20		Div. (1)
I-71	WB 3283+12.50 36.50 LT	SW-507L	849.86	845.53		Div. (1)
I-97	WB 3284+85.00 34.50 LT	SW-509L	852.36	846.81		Div. (1)
	Old Highway Rd.					
I-76	11197+46.00 45.15 RT	SW-501	848.67	844.67		Div. (2)
I-73	11199+02.00 25.00 LT	SW-501	845.79	841.38		Div. (2)
I-74	11198+97.00 57.00 RT	SW-501	845.13	840.97		Div. (2)
Stage 5						
	US 20					
I-110	EB 2274+24.00 14.50 LT	SW-507L	837.93	833.93		***, Div. (1)
I-106	WB 3274+20.00 14.50 RT	SW-507R	837.76	833.50		***, Div. (1)
I-107	WB 3275+10.00 14.50 RT	SW-507R	839.03	834.45		***, Div. (1)
I-111	EB 2275+59.00 23.28 LT	SW-507L	839.71	835.71		***, Div. (1)
I-108	WB 3276+46.00 14.50 RT	SW-507R	840.96	836.44		***, Div. (1)
I-109	WB 3277+95.00 14.50 RT	SW-541R	843.08	838.65		***, Div. (1)
I-112	EB 2277+99.00 39.20 LT	SW-541L	842.84	838.80		***, Div. (1)
I-113	EB 2279+49.00 37.80 LT	SW-541L	845.04	841.00		***, Div. (1)
Stage 6						
	Old Highway Rd.					
I-75	11197+18.00 14.50 LT	SW-501	850.30	845.50		Div. (2)
	US 20					
I-61	WB 3281+42.00 36.50 RT	SW-541R	847.57	843.50		***, Div. (1)
I-59	EB 2282+15.00 14.50 LT	SW-541L	849.33	844.46		***, Div. (1)
I-60	WB 3282+15.00 36.50 RT	SW-541R	848.60	844.27		***, Div. (1)
I-66	EB 2283+20.00 14.50 LT	SW-541L	850.85	846.04		***, Div. (1)
I-65	WB 3283+19.00 36.50 RT	SW-541R	850.07	845.82		***, Div. (1)
I-69	EB 2284+26.00 14.50 LT	SW-541L	852.37	847.50		***, Div. (1)
I-70	WB 3284+25.00 35.00 RT	SW-507R	852.60	847.39		***, Div. (1)
I-94	WB 3286+20.00 23.00 RT	SW-507R	854.53	850.29		***, Div. (1)
I-95	WB 3287+07.00 22.00 RT	SW-507R	855.81	851.81		***, Div. (1)

PIPES

Design Length, Slope, and Flowlines are calculated from inside wall to inside wall along CL of pipe. An additional 3 ft length is added to each side of the Design Length to account for estimated length to center of structures.

Line Number	Intake/ Utility Access No. From	Intake/ Utility Access No. To	Class 'D'	Pipe Size (1) IN	Bid* Length FT	Design Length FT	Slope %	Flow Lines Inlet Elevation	Flow Lines Outlet Elevation	Flow Lines Other Elevation	Pipe Profile Sheet No.	Notes
P-42	I-42		3750	42	144	142.0	7	776.38	766.00			Div. (1)
P-34	I-34	I-42	2000	18	222	218.0	2	802.80	798.44			Div. (3)
P-33	I-33	I-34	2000	15	41	37.0	1.7	803.60	802.91			Div. (2)
P-1	I-1	I-54	2000	24	98	96.0	1	847.93	846.88			Continue from Stage 1, Div. (3)
P-2		I-1	2000	24	20	18.0	1	851.00	848.13			Div. (1)
P-106	I-106	I-82	2000	18	46	44.0	0.8	833.94	833.62			Complete in Stage 5, Div. (1)
P-82	I-82	I-84	CMP	30	71	69.0	50	831.57	809.30			Div. (1)
P-81	I-81	I-82	2000	24	350	346.0	1	835.06	831.61			Div. (1)
P-88	I-88	I-81	2000	24	108	104.0	1.1	836.30	835.16			Div. (1)
P-72	I-72	I-78	2000	15	30	26.0	0.6	843.15	843.00			Div. (1)
P-78	I-78		2000	15	19	17.0	0.5	842.70	842.62			Div. (1)
P-61	I-61	I-78	2000	15	62	60.0	1.4	843.77	843.00			Complete in Stage 6, Div. (1)
P-71	I-71	I-78	2000	15	173	169.0	1.1	846.03	844.19			Div. (1)
P-97	I-97	I-71	2000	15	177	173.0	0.7	847.31	846.13			Div. (1)
P-75	I-75	I-76	2000	15	43	41.0	1.6	846.40	845.78			Complete in Stage 6, Div. (2)
P-76	I-76		2000	15	23	21.0	1.7	845.65	845.20			Div. (2)
P-79		I-73	2000	24	20	18.0	2.2	842.50	841.98			Div. (3)
P-73	I-73	I-74	2000	24	82	78.0	0.4	841.88	841.57			Div. (3)
P-74	I-74		2000	24	22	20.0	0.3	841.47	841.39			Div. (3)
P-106	I-106	I-82	2000	18	7	5.0	0.8	834.00	833.94			Continue from Stage 4, Div. (1)
P-110	I-110	I-106	2000	15	44	40.0	1.6	834.75	834.10			Div. (1)
P-107	I-107	I-106	2000	15	94	90.0	0.9	834.95	834.10			Div. (1)
P-111	I-111	I-110	2000	15	140	136.0	1.2	836.50	834.85			Div. (1)
P-108	I-108	I-107	2000	15	140	136.0	1.4	836.94	835.05			Div. (1)
P-109	I-109	I-108	2000	15	153	149.0	1.4	839.15	837.05			Div. (1)
P-112	I-112	I-109	2000	15	10	6.0	0.9	839.30	839.25			Div. (1)
P-113	I-113	I-112	2000	15	155	151.0	1.4	841.50	839.40			Div. (1)
P-75	I-75	I-76	2000	15	23	21.0	1.6	846.73	846.40			Continue from Stage 4, Div. (2)
P-61	I-61	I-78	2000	15	14	12.0	1.4	844.00	843.77			Continue from Stage 4, Div. (1)
P-60	I-60	I-61	2000	15	77	73.0	0.7	844.77	844.25			Div. (1)
P-59	I-59	I-60	2000	15	8	4.0	2.8	844.96	844.87			Div. (1)
P-65	I-65	I-60	2000	15	104	100.0	1.5	846.32	844.87			Div. (1)
P-66	I-66	I-65	2000	15	8	4.0	3	846.54	846.42			Div. (1)
P-70	I-70	I-65	2000	15	110	106.0	1.4	847.89	846.42			Div. (1)
P-69	I-70	I-69	2000	15	7	3.0	2.8	848.05	848.00			Div. (1)
P-94	I-94	I-70	2000	15	203	199.0	1.4	850.79	847.99			Div. (1)
P-95	I-95	I-94	2000	15	95	91.0	1.7	852.40	850.89			Div. (1)

Changed by Addenda



ENGLISH	IOWA DOT	DESIGN TEAM	WHKS & CO.	DUBUQUE	COUNTY	PROJECT NUMBER	NHSX-032-1(37)--3H-31	SHEET NUMBER	M.5

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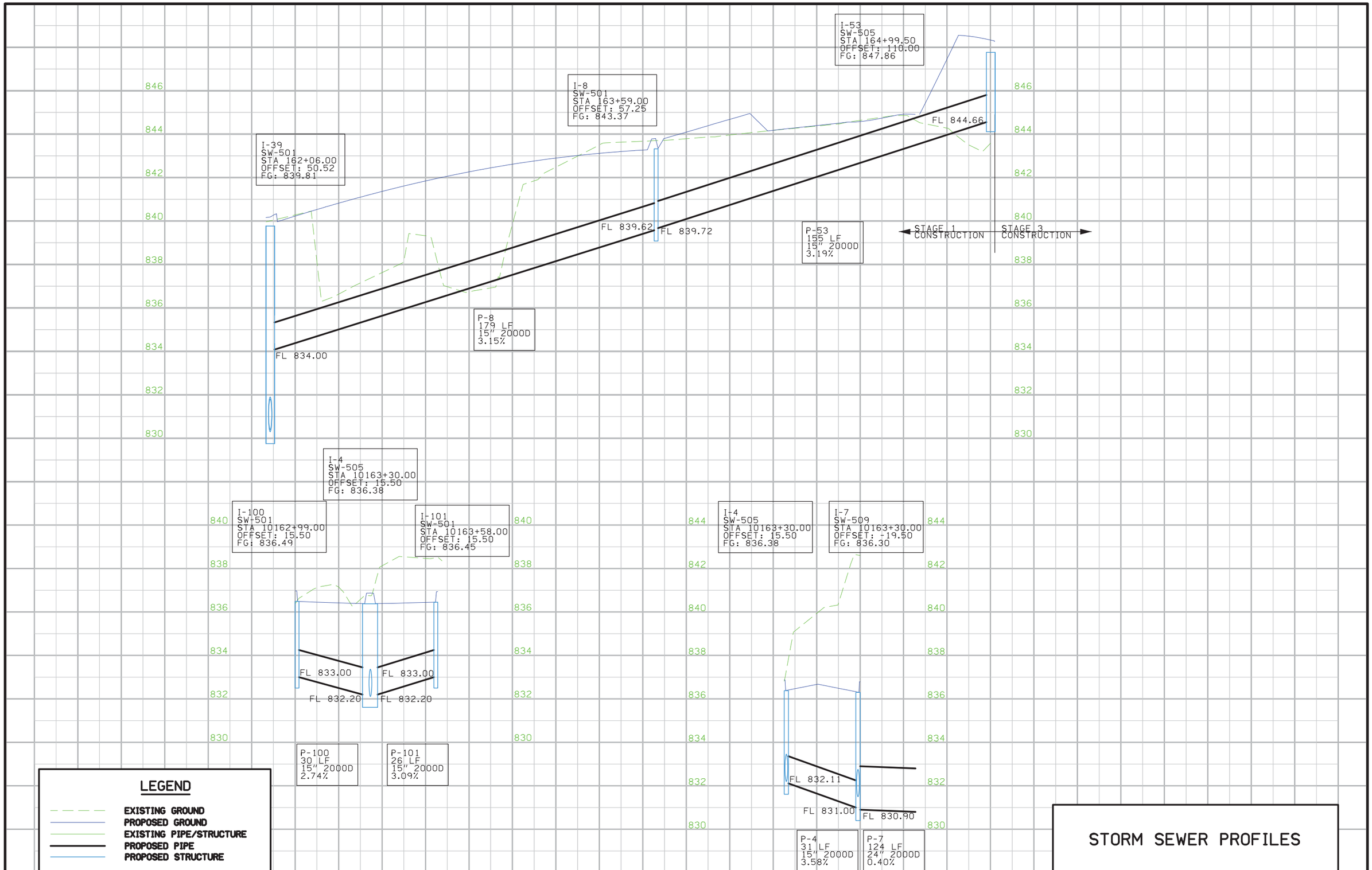

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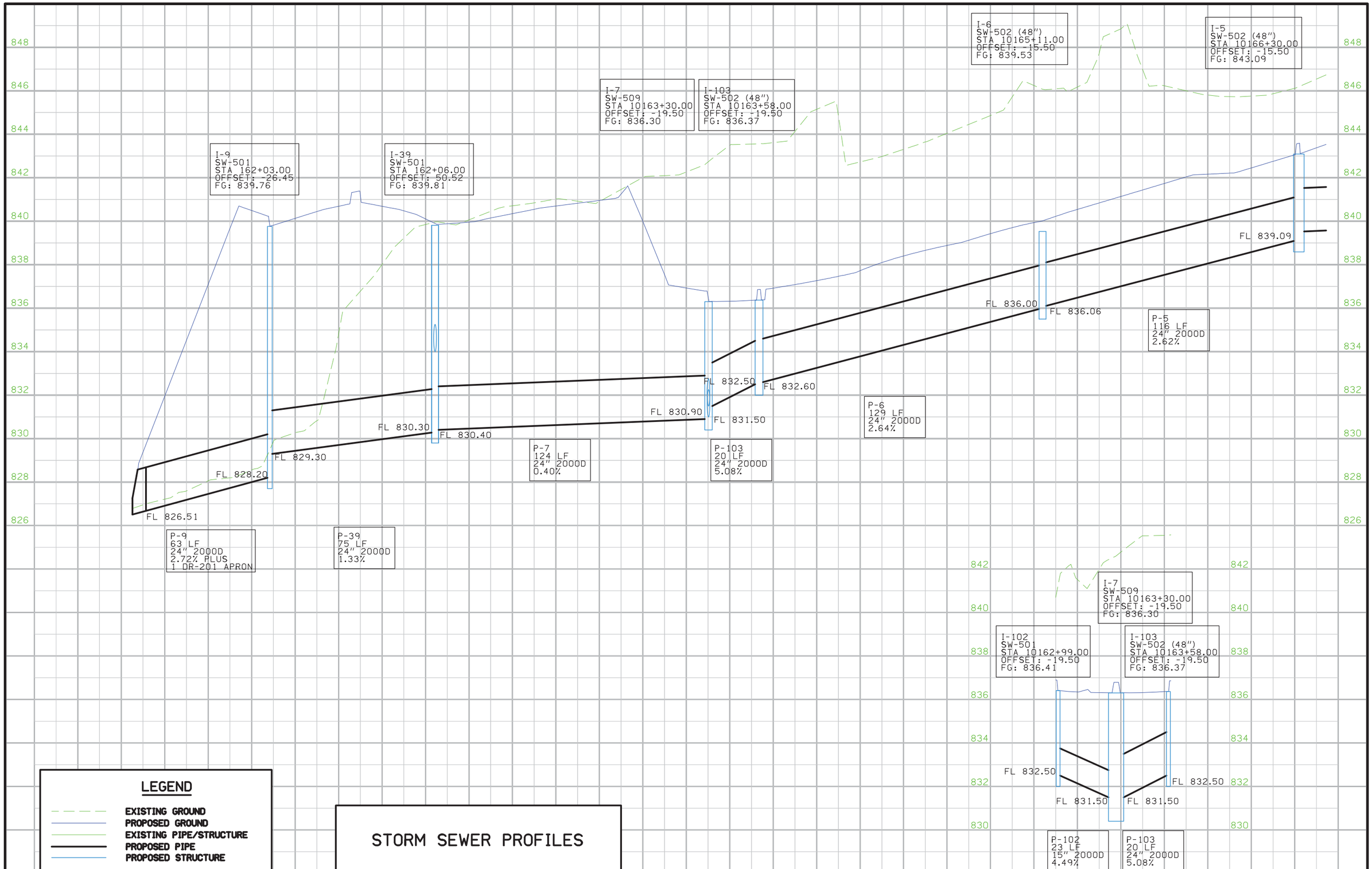

STORM SEWER PROFILES

ENGLISH	IOWA DOT	DESIGN TEAM	WHKS & CO.	DUBUQUE	COUNTY	PROJECT NUMBER	NHSX-032-1(37)--3H-31	SHEET NUMBER	M.18

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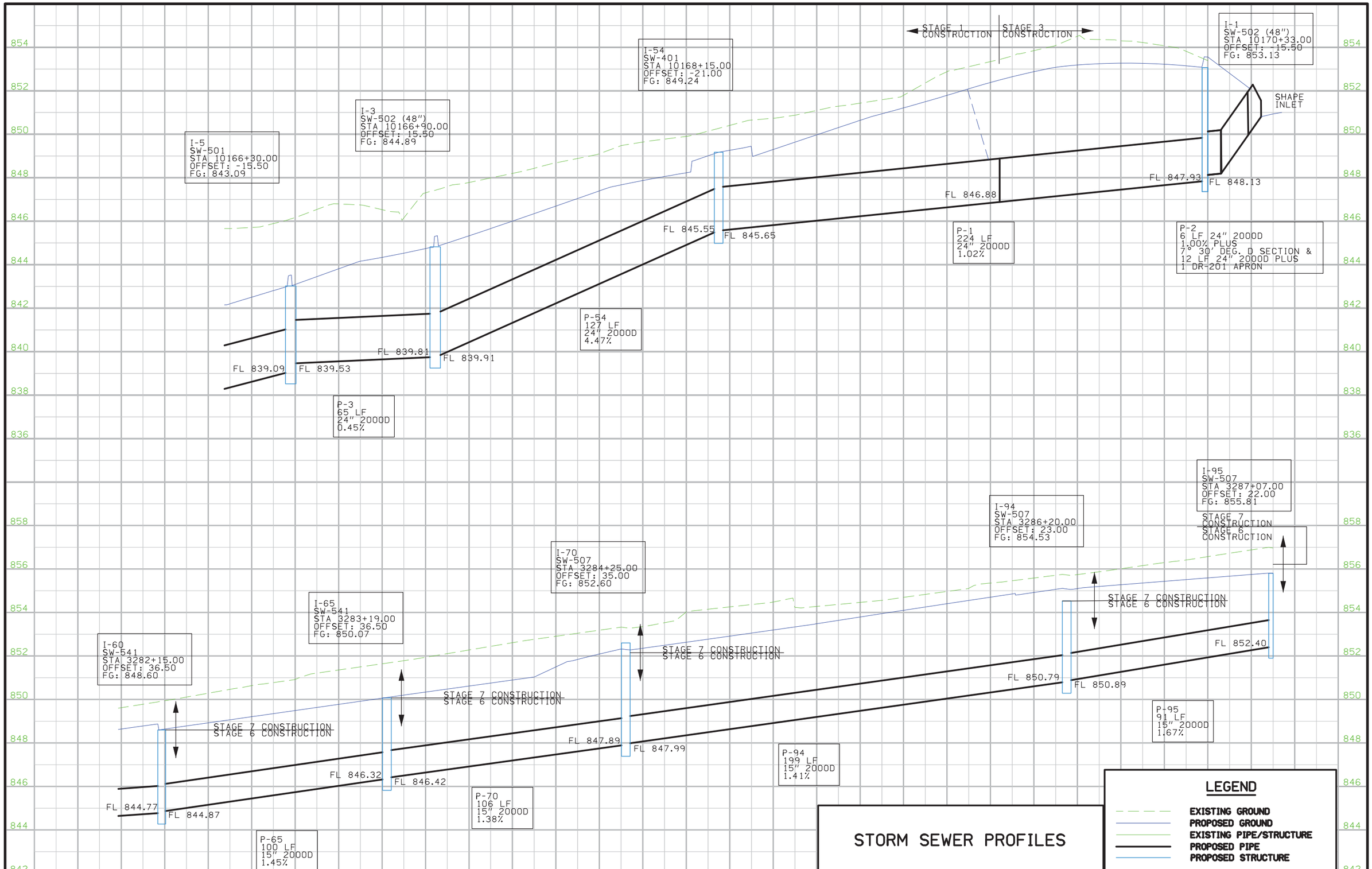

ENGLISH	IOWA DOT	DESIGN TEAM	WHKS & CO.	DUBUQUE	COUNTY	PROJECT NUMBER	NHSX-032-1(37)--3H-31	SHEET NUMBER	M.26

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