

A d d e n d u m

Iowa Department of Transportation

Date of Letting: April, 19, 2016

Office of Contracts

Date of Addendum: March 30, 2016

B.O.	Proposal ID	Proposal Work Type	County	Project Number	Addendum
102	16-0382-037	PCC PAVEMENT - REPLACE	CEDAR	STP-038-2(37)--2C-16	19APR102.A01

Make the following changes to the PROPOSAL SCHEDULE OF PRICES:

Change Proposal Line No. 0020 2102-0425070 Special Backfill;

From: 1'115.000 TONS

To: 1'243.000 TONS

Delete Proposal Line No. 0060 2111-8174100 GRANULAR SUBBASE; 611.100 SY

Change Proposal Line No. 0160 2303-0021500 HMA (300,000 ESAL), Base Course, ½ in. Mix;

From: 163.700 TONS

To: 125.600 TONS

Change Proposal Line No. 0170 2303-0023500, HMA (300,000 ESAL), Inter or Surf, ½ in. Mix,
No Fric Req;

From: 163.700 TONS

To: 129.800 TONS

Change Proposal Line No. 0180 2303-0051500 HMA (10M ESAL), Base Course, ½" Mix ;

From: 9.400 TONS

To: 4.800 TONS

Change Proposal Line No. 0190 2303-0053500 HMA (10M ESAL), Surface Course, ½" Mix,
No Spcl Fric Req;

From: 9.400 TONS

To: 5.000 TONS

Change Proposal Line No. 0200 2303-0246428 Asphalt Binder, PG 64-28;

From: 15.200 TONS

To: 16.500 TONS

Change Proposal Line No. 0430 2503-0114218 Storm Sewer Gravity Main, Trenched, RCAP,
2000 (Class III), 18 in;

From: 291.000 LF

To: 253.000 LF

Change Proposal Line No. 0530 2504-0240036 Remove Sanitary Sewer Pipe Less Than or Equal
to 36 in.;

From: 891.000 LF

To: 941.000 LF

Change Proposal Line No. 0850 2554-0204110 Water Service Stub, Copper, 1 in.;
From: 15.000 EACH
To: 14.000 EACH

Add Proposal Line No. 1081 2303-0052500, HMA (10M ESAL), Intermediate Course 9.700
TONS

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

Replace plan sheets C.1, C.2, C.3, C.4, C.7, C.13, & M.1 with the attached:

The following changes were made to the plan sheets:

Sheet C.1 – Reference Number 2, 2102-0425070, Special Backfill, Division 1
From: 1115 TON
To: 1224 TON
Added quantity for PCC driveways.

Sheet C.1 – Reference Number 2, 2102-0425070, Special Backfill, Division 2
From: 0
To: 19 Ton
Added quantity for 6" PCC sidewalks

Sheet C.1 – Reference Number 2, 2102-0425070, Special Backfill, Quantity Total
From: 1115 Ton
To: 1243 Ton
Added quantity for PCC driveways and 6" PCC sidewalks.

Sheet C.1 – Reference Number 6, 2111-8174100, Granular Subbase, Division 1
From: 519.6 SY
To: 0 SY
Removed Granular Subbase from PCC Driveways

Sheet C.1 – Reference Number 6, 2111-8174100, Granular Subbase, Division 2
From: 91.5 SY
To: 0 SY
Removed Granular Subbase from 6" PCC sidewalks

Sheet C.1 – Reference Number 6, 2111-8174100, Granular Subbase, Quantity Total
From: 611.1 SY
To: 0 SY
Removed Granular Subbase

Sheet C.1 – Reference Number 16, 2303-0021500, HMA (300,000 ESAL), Base Course, ½ in. Mix,
Division 1
From: 82.5 Ton
To: 41.6 Ton
Updated quantity due to incorrect tabulation

Sheet C.1 – Reference Number 16, 2303-0021500, HMA (300,000 ESAL), Base Course, ½ in. Mix, Division 4

From: 81.2 Ton

To: 84.0 Ton

Updated quantity due to incorrect tabulation

Sheet C.1 - Reference Number 16, 2303-0021500, HMA (300,000 ESAL), Base Course, ½ in. Mix, Quantity Total

From: 163.7 Ton

To: 125.6 Ton

Updated quantity due to incorrect tabulation

Sheet C.1 – Reference Number 17, 2303-0023500, HMA (300,000 ESAL), Inter or Surf, ½ in. Mix, No Fric Req, Division 1

From: 82.5 Ton

To: 43.0 Ton

Updated quantity due to incorrect tabulation

Sheet C.1 – Reference Number 17, 2303-0023500, HMA (300,000 ESAL), Inter or Surf, ½ in. Mix, No Fric Req, Division 4

From: 81.2 Ton

To: 86.8 Ton

Updated quantity due to incorrect tabulation

Sheet C.1 - Reference Number 17, 2303-0023500, HMA (300,000 ESAL), Inter or Surf, ½ in. Mix, No Fric Req, Quantity Total

From: 163.7 Ton

To: 129.8 Ton

Updated quantity due to incorrect tabulation

Sheet C.1 – Reference Number 18, 2303-0051500, HMA (10M ESAL), Base Course, ½” Mix, Division 1

From: 9.4 Ton

To: 4.8 Ton

Updated quantity due to incorrect tabulation

Sheet C.1 – Reference Number 18, 2303-0051500, HMA (10M ESAL), Base Course, ½” Mix, Quantity Total

From: 9.4 Ton

To: 4.8 Ton

Updated quantity due to incorrect tabulation

Sheet C.1 – Reference Number 18A, 2303-0052500, HMA (10M ESAL), Intermediate Course, Division 1

From: 0

To: 9.7 Ton

Bid item added due to incorrect tabulation

Sheet C.1 – Reference Number 18A, 2303-0052500, HMA (10M ESAL), Intermediate Course, Quantity Total

From: 0

To: 9.7 Ton

Bid item added due to incorrect tabulation

Sheet C.1 – Reference Number 19, 2303-0053500, HMA (10M ESAL), Surface Course, ½” Mix, No Spcl
Fric Req, Division 1

From: 9.4 Ton

To: 5 Ton

Updated quantity due to incorrect tabulation

Sheet C.1 – Reference Number 19, 2303-0053500, HMA (10M ESAL), Surface Course, ½” Mix, No Spcl
Fric Req, Quantity Total

From: 9.4 Ton

To: 5 Ton

Updated quantity due to incorrect tabulation

Sheet C.1 – Reference Number 20, 2303-0246428, Asphalt Binder, PG 64-28, Division 1

From: 5.5 Ton

To: 6.3 Ton

Updated quantity due to incorrect tabulation

Sheet C.1 – Reference Number 20, 2303-0246428, Asphalt Binder, PG 64-28, Division 4

From: 9.7 Ton

To: 10.2 Ton

Updated quantity due to incorrect tabulation

Sheet C.1 – Reference Number 20, 2303-0246428, Asphalt Binder, PG 64-28, Quantity Total

From: 15.2 Ton

To: 16.5 Ton

Updated quantity due to incorrect tabulation

Sheet C.1 – Reference Number 43, 2503-0114218, Storm Sewer Gravity Main, Trenched, RCAP, 2000
(Class III), 18 in., Division 3

From: 291 LF

To: 253 LF

Updated quantity due to incorrect tabulation

Sheet C.1 – Reference Number 43, 2503-0114218, Storm Sewer Gravity Main, Trenched, RCAP, 2000
(Class III), 18 in., Quantity Total

From: 291 LF

To: 253 LF

Updated quantity due to incorrect tabulation

Sheet C.1 – Reference Number 53, 2504-0240036, Remove Sanitary Sewer Pipe Less Than or Equal to
36 in., Division 4

From: 891 LF

To: 941 LF

Updated quantity due to incorrect tabulation

Sheet C.1 - Reference Number 53, 2504-0240036, Remove Sanitary Sewer Pipe Less Than or Equal to 36
in., Quantity Total

From: 891 LF

To: 941 LF

Updated quantity due to incorrect tabulation

Sheet C.1 – Reference Number 85, 2554-0204110, Water Service Stub, Copper, 1 in., Division 4

From: 15 EACH

To: 14 EACH

Quantity decreased due to no easement was obtained at 305 S Ash St.

Sheet C.1 - Reference Number 85, 2554-0204110, Water Service Stub, Copper, 1 in., Quantity Total

From: 15 EACH

To: 14 EACH

Quantity decreased due to no easement was obtained at 305 S Ash St.

Sheet C.2 – Reference Note No. 2, Special Backfill

From: QUANTITY ESTIMATED BASED UPON 2 FOOT DEPTH, AND A 3-FOOT WIDTH FROM APPROXIMATELY US 30 TO APPROXIMATELY FARMER'S STREET. ACTUAL LENGTHS, WIDTHS AND DEPTH WILL VARY FROM AREA TO AREA DEPENDING ON ACTUAL CONDITION OF PROPOSED SUBGRADE. DETERMINATION OF NEED FOR SPECIAL BACKFILL MADE AFTER OPERATIONS ASSOCIATED WITH MODIFIED SUBBASE COMPLETE. ASSOCIATED WITH REMOVAL AND REPLACEMENT OF UNSUITABLE OR UNSTABLE PAVEMENT SUBGRADE SOILS. SUITABLE SOILS EXCAVATED AS CLASS 10 MAY BE USED TO REPLACE UNSUITABLE OR UNSTABLE SOILS TO BE REPLACED.

To: PLACE 4 INCHES OF SPECIAL BACKFILL UNDER 6" PCC SIDEWALK AND UNDER PCC DRIVEWAYS. QUANTITY OF SPECIAL BACKFILL UNDER 6" PCC SIDEWALKS AND PCC DRIVEWAYS CALCULATED TO BE 128 TONS. REMAINDER OF QUANTITY ESTIMATED BASED UPON 2 FOOT DEPTH, AND A 3-FOOT WIDTH FROM APPROXIMATELY US 30 TO APPROXIMATELY FARMER'S STREET. ACTUAL LENGTHS, WIDTHS AND DEPTH WILL VARY FROM AREA TO AREA DEPENDING ON ACTUAL CONDITION OF PROPOSED SUBGRADE. DETERMINATION OF NEED FOR SPECIAL BACKFILL MADE AFTER OPERATIONS ASSOCIATED WITH MODIFIED SUBBASE COMPLETE. ASSOCIATED WITH REMOVAL AND REPLACEMENT OF UNSUITABLE OR UNSTABLE PAVEMENT SUBGRADE SOILS. SUITABLE SOILS EXCAVATED AS CLASS 10 MAY BE USED TO REPLACE UNSUITABLE OR UNSTABLE SOILS TO BE REPLACED.

Sheet C.2 – Reference Note No. 6, Granular Subbase

Reference Note removed.

Sheet C.2 – Reference Note No. 18A, HMA (10M ESAL) Intermediate, ½" Mix

Reference Note Added - TO BE PLACED AS SHOWN ON THE B SHEETS. CONTRACTOR SHALL SUPPLY CERTIFIED PLANT INSPECTION. SEE TABULATION 100-25.

Sheet C.2 – Reference Note No. 22, Removal of Exist Structures

From: FOR REMOVAL OF STAIRS AND PORTIONS OF EXISTING RETAINING WALLS STATIONS 25+50 TO 26+00 LT. SEE B SHEETS FOR DETAILS.

To: FOR REMOVAL OF STAIRS AND PORTIONS OF EXISTING RETAINING WALLS STATIONS 25+50 TO 26+00 LT. SEE V SHEETS FOR DETAILS.

Sheet C.2 – Reference Note No. 24, Structural Concrete (Miscellaneous)

From: FOR RETAINING WALL AND STAIRS, AS DETAILED IN THE B SHEETS, 25+50 TO 26+00 LT. CONTRACTOR SHALL SUPPLY CERTIFIED PLANT INSPECTION.

To: FOR RETAINING WALL AND STAIRS, AS DETAILED IN THE V SHEETS, 25+50 TO 26+00 LT. CONTRACTOR SHALL SUPPLY CERTIFIED PLANT INSPECTION.

Sheet C.2 – Reference Note No. 25, Steel Reinforc Epoxy Coated

From: FOR REINFORCED PCC PANELS AS SHOWN ON PLAN SHEET L.9 (DIV 1 = 4062 LBS). ALSO FOR RETAINING WALL AND STAIRS, AS DETAILED IN THE B SHEETS, 25+50 TO 26+00 LT (DIV 2 = 273 LBS).

To: FOR REINFORCED PCC PANELS AS SHOWN ON PLAN SHEET L.9 (DIV 1 = 4062 LBS). ALSO FOR RETAINING WALL AND STAIRS, AS DETAILED IN THE V SHEETS, 25+50 TO 26+00 LT (DIV 2 = 273 LBS).

Sheet C.3 – Reference Note No. 84, Fittings By Weight, Ductile Iron

From: POLYETHYLENE ENCASEMENT REQUIRED. CONNECTIONS WITH EXISTING WATER MAIN SHALL BE MADE WITH FITTINGS. COUPLINGS MAY BE USED FOR THE CONNECTIONS WITH EXISTING, THE COUPLINGS SHALL HAVE DUCTILE IRON OR STAINLESS STEEL BODIES AND STAINLESS STEEL FASTENERS AND HARDWARE. CONNECTIONS WITH THE EXISTING WATER MAIN WILL BE PAID FOR BY THE POUND FOR THE APPROPRIATELY SIZED SLEEVE. NO ADDITIONAL WEIGHT WILL BE PAID FOR IF THE CONTRACTOR WISHES TO UTILIZE COUPLINGS.

To: POLYETHYLENE ENCASEMENT REQUIRED. CONNECTIONS WITH EXISTING WATER MAIN SHALL BE MADE WITH FITTINGS. COUPLINGS MAY BE USED FOR THE CONNECTIONS WITH EXISTING, THE COUPLINGS SHALL HAVE DUCTILE IRON OR STAINLESS STEEL BODIES AND STAINLESS STEEL FASTENERS AND HARDWARE. CONNECTIONS WITH THE EXISTING WATER MAIN WILL BE PAID FOR BY THE POUND FOR THE APPROPRIATELY SIZED SLEEVE. NO ADDITIONAL WEIGHT WILL BE PAID FOR IF THE CONTRACTOR WISHES TO UTILIZE COUPLINGS. BID QUANTITY INCLUDES AN ESTIMATE OF 51 MEGALUGS.

Sheet C.4 – Reference Note No. 94, Ornamental Metal Railing

From: FURNISH AND INSTALL ORNAMENTAL METAL RAILING ASSOCIATED WITH STEPS/STAIRS (25+50 TO 26+00 LT) AS INDICATED IN DETAILS ON THE B SHEETS. MEASUREMENT WILL BE IN LINEAR FEET FOR ORNAMENTAL SAFETY RAIL, MEASURED ALONG THE TOP OF THE RAIL FROM END OF RAIL TO END OF RAIL. PAYMENT WILL BE AT THE UNIT PRICE PER LINEAR FOOT OF ORNAMENTAL SAFETY RAIL. PAYMENT SHALL INCLUDE ALL EQUIPMENT, MATERIALS, TOOLS AND LABOR NECESSARY TO INSTALL ORNAMENTAL SAFETY RAIL.

To: FURNISH AND INSTALL ORNAMENTAL METAL RAILING ASSOCIATED WITH STEPS/STAIRS (25+50 TO 26+00 LT) AS INDICATED IN DETAILS ON THE V SHEETS. MEASUREMENT WILL BE IN LINEAR FEET FOR ORNAMENTAL SAFETY RAIL, MEASURED ALONG THE TOP OF THE RAIL FROM END OF RAIL TO END OF RAIL. PAYMENT WILL BE AT THE UNIT PRICE PER LINEAR FOOT OF ORNAMENTAL SAFETY RAIL. PAYMENT SHALL INCLUDE ALL EQUIPMENT, MATERIALS, TOOLS AND LABOR NECESSARY TO INSTALL ORNAMENTAL SAFETY RAIL.

Sheet C.7 – HMA Pavement Tabulation

Updated due to incorrect tabulations.

Sheet C.13 – Sanitary or Storm Sewer Abandonment or Removal Tabulation

Updated due to incorrect tabulation.

Sheet M.1 – Storm Sewer Tabulation

Total updated due to incorrect tabulation.

P:\14\183\DRAWINGS\CIVIL\14183_ZZ_C.DWG 3/15/2016 10:53:45 AM JERI M. VONDERA

STP-038-2(37)--2C-16

ESTIMATED PROJECT QUANTITIES - IA 38 From W Jct US 30 to NCL Stanwood										
STP-038-2(37)--2C-16										
CONSTRUCTION USE ONLY	REF. NO.	ITEM CODE	BID ITEM DESCRIPTION	UNITS	DIVISION 1 Paving	DIVISION 2 Sidewalk/Ret Wall/Steps	DIVISION 3 Storm	DIVISION 4 Sanitary/Water	QUANTITY TO TAL	
	1	21C1-0850002	CLEARING & GRUBBING	UNIT	192		14	301	507	
	2	21C2-0425070	SPECIAL BACKFILL	TON	1224	19			1243	
	3	21C2-2710070	EXCAVATION CL 10, RDWY & BORROW	CY	6941.2		91.5	55.6	7088.3	
	4	21C2-2712015	EXCAVATION CL 12, BOULDERS OR ROCK FRAG.	CY	4				4	
	5	21C5-8425015	TOPSOIL STRIP SALVAGE & SPREAD	CY	1085		72	103	1260	
	6	2111-8174100	GRANULAR SUBBASE	SY	-	-	-	-	-	
	7	2113-0001100	SUBGRADE STABILIZATION MAT'L, POLYMER GRID	SY	556				556	
	8	2115-0100000	MODIFIED SUBBASE	CY	6099.4			316.4	6415.8	
	9	2121-7425010	SHOULDER GRANULAR, TYPE A	TON	629.7				629.7	
	10	2122-5190007	PAVED SHOULDER, PCC, 7 IN	SY	1808.9				1808.9	
	11	2123-7450020	SHOULDER FINISHING, EARTH	STA	31.71				31.71	
	12	2125-2225050	RESHAPING DITCHES	STA			0.5		0.5	
	13	2210-0475290	BASE MACADAM STONE	TON	91				91	
	14	23C1-1033095	STANDARD OR SLIP FORM PCC PAVEMENT, CLASS C, CLASS 3 DURABILITY, 9.5 IN	SY	13784.2				13784.2	
	15	2301-6911722	PORTLAND CEMENT CONCRETE PAVEMENT SAMPLES	LS	1				1	
	16	23C3-0021500	HMA (300,000 ESAL), BASE COURSE, 1/2 IN. MIX	TON	41.6			84.0	125.6	
	17	23C3-0023500	HMA (300,000 ESAL), INTER CR SURF, 1/2 IN.MIX, NO FRIC REQ	TON	43.0			86.8	129.8	
	18	23C3-0051500	HMA (10M ESAL) BASE COURSE, 1/2" MIX	TON	4.8				4.8	
	18A	23C3-0052500	HMA (10M ESAL) INTERMEDIATE, 1/2" MIX	TON	9.7				9.7	
	19	23C3-0053500	HMA (10M ESAL) SURFACE COURSE, 1/2" MIX, NO SPCL FRIC REQ	TON	5				5	
	20	23C3-0246428	ASPHALT BINDER, PG 64-28	TON	6.3			10.2	16.5	
	21	2315-8275025	SURFACING, DRIVEWAY, CLASS A CRUSHED STONE	TON				134.4	134.4	
	22	24C1-6745650	REMOVAL OF EXIST STRUCTURES	LS		1			1	
	23	24C1-6745910	REMOVAL OF SIGN	EACH	51				51	
	24	24C3-0100000	STRUCTURAL CONCRETE (MISCELLANEOUS)	CY		5.2			5.2	
	25	24C4-7775005	STEEL REINFORC EPOXY COATED	LB	4062	273			4335	
	26	2416-0102230	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 30 IN	EACH			1		1	
	27	2416-0102236	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 36 IN	EACH			1		1	
	28	2435-0130148	MANHOLE, SANITARY SEWER, SW-301, 48 IN.	EACH				5	5	
	29	2435-0130160	MANHOLE, SANITARY SEWER, SW-301, 60 IN.	EACH				2	2	
	30	2435-0140200	MANHOLE, STORM SEWER, SW-402	EACH			2		2	
	31	2435-0250700	INTAKE, SW-507	EACH			5		5	
	32	2435-0250800	INTAKE, SW-508	EACH			1		1	
	33	2435-0250810	INTAKE, SW-508 MODIFIED	EACH			1		1	
	34	2435-0250900	INTAKE, SW-509	EACH			5		5	
	35	2435-0251010	INTAKE, SW-510 MODIFIED	EACH			1		1	
	36	2435-0251224	INTAKE, SW-512, 24 IN.	EACH			3		3	
	37	2435-0600010	MANHOLE ADJUSTMENT, MINOR	EACH				3	3	
	38	2435-0700010	CONNECTION TO EXISTING MANHOLE	EACH			1		1	
	39	25C2-8212204	SUBDRAIN PERFORATED PLASTIC PIPE 4 IN	LF	8729				8729	
	40	25C2-8221303	SUBDRAIN OUTLET, DR-303	EACH	18				18	
	41	25C2-8221304	SUBDRAIN OUTLET, DR-304	EACH	20				20	
	42	25C3-0114215	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 15 IN.	LF			130		130	
	43	25C3-0114218	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 18 IN.	LF			253		253	
	44	25C3-0114224	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 24 IN.	LF			583		583	
	45	25C3-0116318	STORM SEWER GRAVITY MAIN, TRENCHED, RCAP, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIV DIA. 18 IN.	LF			37		37	
	46	25C3-0116330	STORM SEWER GRAVITY MAIN, TRENCHED, RCAP, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIV DIA. 30 IN.	LF			55		55	
	47	25C3-0116336	STORM SEWER GRAVITY MAIN, TRENCHED, RCAP, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIV DIA. 36 IN.	LF			101		101	
	48	25C3-0200036	REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN.	LF			663		663	
	49	25C4-0114008	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 8 IN.	LF				955	955	
	50	25C4-0134008	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, PVC, 8 IN.	LF				151	151	
	51	25C4-0200404	SANITARY SEWER SERVICE STUB, PVC, 4 IN.	LF				30	30	
	52	25C4-0200406	SANITARY SEWER SERVICE STUB, PVC, 6 IN.	LF				30	30	
	53	25C4-0240036	REMOVE SANITARY SEWER PIPE LESS THAN OR EQUAL TO 36 IN.	LF				941	941	
	54	25C4-0240236	SANITARY SEWER ABANDONMENT, FILL AND PLUG, LESS THAN OR EQUAL TO 36 IN.	LF				5	5	

ESTIMATED PROJECT QUANTITIES - IA 38 From W Jct US 30 to NCL Stanwood										
STP-038-2(37)--2C-16										
CONSTRUCTION USE ONLY	REF. NO.	ITEM CODE	BID ITEM DESCRIPTION	UNITS	DIVISION 1 Paving	DIVISION 2 Sidewalk/Ret Wall/Steps	DIVISION 3 Storm	DIVISION 4 Sanitary/Water	QUANTITY TOTAL	
	55	2510-6745850	REMOVAL OF PAVEMENT	SY	14283.7			707.9	14991.6	
	56	2510-6750600	REMOVAL OF INTAKES AND UTILITY ACCESSSES	EACH			12	5	17	
	57	2511-6745900	REMOVAL OF SIDEWALK	SY		1507.1		4.7	1511.8	
	58	2511-7526004	SIDEWALK PCC 4 IN	SY		1726.2			1726.2	
	59	2511-7526006	SIDEWALK, PCC, 6 IN.	SY		91.5			91.5	
	60	2511-7528101	DETECTABLE WARNINGS	SF		260			260	
	61	2512-1725256	CURB AND GUTTER PCC 2.5'	LF	86				86	
	62	2515-2475006	DRIVEWAY, P.C. CONCRETE, 6 IN.	SY	519.6				519.6	
	63	2515-6745600	REMOVAL OF PAVED DRIVEWAY	SY	348.9				348.9	
	64	2518-6910000	SAFETY CLOSURE	EACH	14			6	20	
	65	2519-4200020	REMOVAL AND REINSTALLATION OF FENCE, CHAIN LINK	LF				88	88	
	66	2524-6765010	REMOVE AND RE-INSTALL SIGN, AS PER PLAN	EACH	1				1	
	67	2524-9100030	OBJECT MARKER, TYPE 3	EACH	2				2	
	68	2524-9210000	MILEPOST MARKER	EACH	2				2	
	69	2524-9276027	PERFORATED SQUARE STEEL TUBE POST ANCHOR, TRIANGULAR SLIP BASE ASSEMBLY	EACH	38				38	
	70	2524-9325001	TYPE A SIGNS ALUM	SF	292				292	
	71	2524-9325150	INSTALL TYPE A SIGN	EACH	48				48	
	72	2527-9263109	PAINTED PAVEMENT MARKING WATERBORNE OR SOLVENT	STA	95.81				95.81	
	73	2527-9263131	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS	STA	15.14				15.14	
	74	2527-9263137	PAINTED SYMBOLS AND LEGENDS, WATERBORNE OR SOLVENT	EACH	2				2	
	75	2527-9263180	PAVEMENT MARKINGS REMOVED	STA	21.58				21.58	
	76	2528-8445110	TRAFFIC CONTROL	LS	0.8		0.1	0.1	1	
	77	2528-9290050	PORTABLE DYNAMIC MESSAGE SIGN (PDMS)	CDAY	21				21	
	78	2533-4980005	MOBILIZATION	LS	0.59	0.05	0.1	0.26	1	
	79	2552-0000210	TRENCH FOUNDATION	TON				16	16	
	80	2554-0112006	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 6 IN.	LF				56	56	
	81	2554-0114004	WATER MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 4 IN.	LF				27	27	
	82	2554-0114006	WATER MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 6 IN.	LF				1619	1619	
	83	2554-0132006	WATER MAIN WITH CASING PIPE, TRENCHED, DUCTILE IRON PIPE LF STD (DIP), 6 IN.	LF				138	138	
	84	2554-0203000	FITTINGS BY WEIGHT, DUCTILE IRON	LB				2169	2169	
	85	2554-0204110	WATER SERVICE STUB, COPPER, 1 IN.	EACH				14	14	
	86	2554-0207004	VALVE, GATE, DIP, 4 IN.	EACH				1	1	
	87	2554-0207006	VALVE, GATE, DIP, 6 IN.	EACH				18	18	
	88	2554-0210201	FIRE HYDRANT ASSEMBLY, WM-201	EACH				7	7	
	89	2595-0005150	RAILROAD PROTECTIVE LIABILITY INSURANCE FOR UNION PACIFIC RAILROAD	LS	1				1	
	90	2599-9999005	STREET NAME SIGNS, COMPLETE, INSTALLED	EACH	6				6	
	91	2599-9999009	CASING, PVC, 3 INCH	LF				525	525	
	92	2599-9999009	CASING, STEEL, 12 INCH	LF				114	114	
	93	2599-9999009	FULL DEPTH SAW CUT	LF	675				675	
	94	2599-9999009	ORNAMENTAL METAL RAILING	LF		28.6			28.6	
	95	2599-9999018	POLYSTRENE BOARD INSULATION	SY				126	126	

MODIFIED PER
ADDENDUM

Design For
IA 38
FROM W JCT US 30 TO NCL STANWOOD
BID ITEMS

Station:.. Date:..
CITY OF STANWOOD, CEDAR COUNTY

DESIGNED BY: _____
DETAILED BY: _____

TRACED BY: _____
CHECKED BY: _____



563.556.2464 ♦ 800.556.4491
IIW, P.C. ♦ www.iiwengr.com

CITY OF STANWOOD, CEDAR COUNTY

PROJECT NUMBER

STP-038-2(37)--2C-16

STATE
IOWA

FED. ROAD
DIST. NO.
-

FISCAL
YEAR
2016

SHEET
NO.
C.1

TOTAL
SHEETS
144

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STP-038-2(37)--2C-16

ESTIMATED PROJECT QUANTITIES - IA 38 From W Jct US 30 to NCL Stanwood									
STP-038-2(37)--2C-16									
CONSTRUCTION USE ONLY	REF. NO.	ITEM CODE	BID ITEM DESCRIPTION	UNITS	DIVISION 1 Paving	DIVISION 2 Sidewalk/Ret Wall/Steps	DIVISION 3 Storm	DIVISION 4 Sanitary/Water	QUANTITY TOTAL
	96	2599-9999020	SUBGRADE STABILIZATION MATERIAL, MODIFIED MACADAM	TON	200				200
	97	2601-2634100	MULCH	ACRE	1.4		0.1	0.1	1.6
	98	2601-2636043	SEEDING AND FERTILIZING (RURAL)	ACRE	0.2				0.2
	99	2601-2636044	SEEDING AND FERTILIZING (URBAN)	ACRE	1.2		0.1	0.1	1.4
	100	2601-2640350	SPECIAL DITCH CONTROL, WOOD EXCELSIOR MAT	SQ			39		39
	101	2602-0000020	SILT FENCE	LF	426				426
	102	2602-0000030	SILT FENCE-DITCH CHECKS	LF	22.5		112.5		135
	103	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	178		37.5		215.5
	104	26020000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	36		8		44
	105	2602-0000309	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 9 IN. DIA.	LF	520				520
	106	2602-0000350	REMOVAL OF PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE	LF	520				520
	107	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	11				11
	108	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	2				2

REF. NO.	DATA BELOW IS FOR INFORMATION ONLY AND DOES NOT CONSTITUTE A BASIS FOR EXTRA WORK ORDER REQUESTS
1	GRUBBING OF TOPPED TREES THROUGHOUT PROJECT CORRIDOR. CLEARING AND GRUBBING OF 12" AND 18" TREES LOCATED NEAR SANITARY SEWER 10+25, (MU.5) AS DIVISION 4, IF NECESSARY. CLEARING OF TREES PRIOR TO APRIL 1, AND AFTER SEPTEMBER 30, ONLY. SEE TABULATION 110-17.
2	PLACE 4 INCHES OF SPECIAL BACKFILL UNDER 6" PCC SIDEWALK AND UNDER PCC DRIVEWAYS. QUANTITY OF SPECIAL BACKFILL UNDER 6" PCC SIDEWALKS AND PCC DRIVEWAYS CALCULATED TO BE 128 TONS. REMAINDER OF QUANTITY ESTIMATED BASED UPON 2 FOOT DEPTH, AND A 3-FOOT WIDTH FROM APPROXIMATELY US 30 TO APPROXIMATELY FARMER'S STREET. ACTUAL LENGTHS, WIDTHS AND DEPTH WILL VARY FROM AREA TO AREA DEPENDING ON ACTUAL CONDITION OF PROPOSED SUBGRADE. DETERMINATION OF NEED FOR SPECIAL BACKFILL MADE AFTER OPERATIONS ASSOCIATED WITH MODIFIED SUBBASE COMPLETE. ASSOCIATED WITH REMOVAL AND REPLACEMENT OF UNSUITABLE OR UNSTABLE PAVEMENT SUBGRADE SOILS. SUITABLE SOILS EXCAVATED AS CLASS 10 MAY BE USED TO REPLACE UNSUITABLE OR UNSTABLE SOILS TO BE REPLACED.
3	SEE T SHEETS. IF EXCAVATED MATERIAL ASSOCIATED WITH INSTALLATION OF STORM SEWER, WATER MAIN, OR SANITARY SEWER IS SUITABLE, THE CONTRACTOR MAY USE THE SUITABLE EXCESS MATERIAL FOR ROADWAY FILL. CLASS 10 QUANTITY INCLUDES QUANTITY ASSOCIATED WITH DITCH FROM 27+25 TO 27+75 LT. QUANTITY ALSO INCLUDES EARTHWORK ASSOCIATED WITH GRANULAR AND PCC SHOULDERS. METHOD OF MEASUREMENT SHALL BE THE QUANTITY IN THE CONTRACT DOCUMENTS. BASIS OF PAYMENT SHALL INCLUDE ALL EQUIPMENT, MATERIALS, TOOLS AND LABOR NECESSARY TO EXCAVATE FOR THE STREET AND SIDEWALK AREAS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. VOLUME OF CLASS 10 EXCAVATION, ROADWAY AND BORROW IS ESTIMATED TO BE 6858 CY CUT (0% SHRINKAGE) AND 574 CY FILL (0% SHRINKAGE). ALL CLASS 10 EXCAVATION, ROADWAY AND BORROW MOVED TO OR WITHIN THIS PROJECT SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM. THE CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF ANY UNSUITABLE OR EXCESS MATERIAL AT LOCATIONS PROVIDED BY THE CONTRACTOR.
4	REMOVAL OF LANSCAPING BOULDERS LOCATED AT STATIONS 14+25 RT, 15+66 RT, AND 15+72 RT.
5	TO BE PLACED AS NEEDED AND AS AUTHORIZED BY THE ENGINEER IN ALL AREAS WHERE GRASS IS TO BE THE FINAL SURFACE. STRIP TO A DEPTH OF 6 INCHES AND PLACE AT A DEPTH OF 6 INCHES. METHOD OF MEASUREMENT SHALL BE THE QUANTITY MEASURED BY THE ENGINEER. FOR THE AMOUNT OF TOPSOIL PLACED. THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE PER CY. THIS PAYMENT SHALL INCLUDE ALL EQUIPMENT, MATERIALS, TOOLS AND LABOR NECESSARY TO INSTALL TOPSOIL IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6	
7	USE IN LOCATIONS WHERE SUBGRADE STABILIZATION MATERIAL, MODIFIED MACADAM IS PLACED.
8	FOR USE UNDER 9.5 INCH PCC PAVEMENT, 4' WIDE 7 INCH THICK PAVED SHOULDERS, AND HMA. SHALL BE PLACED AS SHOWN ON THE B SHEETS.
9	SHALL BE PLACED AS SHOWN ON THE B SHEETS. SEE TABULATION 112-9.
10	SHALL BE PLACED AS SHOWN IN THE TYPICAL SECTIONS ON THE B SHEETS. SPECIAL BACKFILL ASSOCIATED WITH THIS ITEM SHALL BE INCIDENTAL AND NOT PAID FOR SEPARATELY. CONTRACTOR SHALL SUPPLY CERTIFIED PLANT INSPECTION. SEE QUANTITIES FOR SPECIAL BACKFILL MATERIAL (SECTION 4132) ASSOCIATED WITH PAVED SHOULDERS IN SHOULDER TABULATION 112-9.
11	FOR SHOULDERS FROM STA 26+92.73 TO 39+78.32 IN BOTH DIRECTIONS, AND SHOULDER ALONG US 30 FROM STA 90+95 TO 96+95. SEE B SHEETS.
12	FOR RESHAPING DRAINAGEWAY/IA 38 DITCHES ASSOCIATED WITH EXISTING CULVERT AT 29+54 RT, SUBDRAIN OUTLET INSTALLATION AND SCOUR REPAIR.
13	USED FOR CONSTRUCTION OF CONSTRUCTION ENTRANCES FOR EROSION CONTROL AS LOCATED ON THE EC SHEETS (PLAN VIEW) AND THE DETAIL AS SHOWN ON B.5.
14	FOR IA 38/ASH STREET INCLUDING INTEGRAL CURB AND GUTTER. FOR PLACEMENT OF ALL PCC STREET PAVEMENT ACCORDING TO THE CONTRACT DOCUMENTS. SEE B AND L SHEETS FOR DETAILS. CONTRACTOR SHALL NOT USE KEYWAY FOR PAVEMENT JOINTS. ALL CURB DROPS SHALL BE HAND FORMED. NO CUTS ALLOWED WITHOUT PERMISSION FROM THE ONSITE REPRESENTATIVE.
15	
16	TO BE PLACED AS SHOWN ON THE B SHEETS. CONTRACTOR SHALL SUPPLY CERTIFIED PLANT INSPECTION. SEE TABULATION 100-25.
17	TO BE PLACED AS SHOWN ON THE B SHEETS. CONTRACTOR SHALL SUPPLY CERTIFIED PLANT INSPECTION. SEE TABULATION 100-25.
18	TO BE PLACED AS SHOWN ON THE B SHEETS. CONTRACTOR SHALL SUPPLY CERTIFIED PLANT INSPECTION. SEE TABULATION 100-25.
18A	TO BE PLACED AS SHOWN ON THE B SHEETS. CONTRACTOR SHALL SUPPLY CERTIFIED PLANT INSPECTION. SEE TABULATION 100-25.
19	TO BE PLACED AS SHOWN ON THE B SHEETS. CONTRACTOR SHALL SUPPLY CERTIFIED PLANT INSPECTION. SEE TABULATION 100-25.
20	SEE TABULATION 110.25.
21	FOR USE WHERE NEW CONSTRUCTION ABUTS EXISTING STONE-SURFACE DRIVEWAY. WIDTH, LENGTH AND THICKNESS AS INDICATED ON THE MU SHEETS. METHOD OF MEASUREMENT WILL BE THE QUANTITY, IN TONS, COMPUTED BY THE ENGINEER FROM WEIGHTS OF INDIVIDUAL TRUCK LOADS (TICKETS). WIDTHS AND DEPTHS SHALL BE AS INDICATED IN THE B SHEETS. LENGTHS SHALL BE APPROVED BY THE ENGINEER. MATERIAL SHALL CONFORM TO GRADATION NUMBER 11 (4120.04).

MODIFIED PER
ADDENDUM


REF.	DATA BELOW IS FOR INFORMATION ONLY AND DOES NOT CONSTITUTE A BASIS FOR EXTRA WORK ORDER REQUESTS
NO.	ESTIMATE REFERENCE INFORMATION
22	FOR REMOVAL OF STAIRS AND PORTIONS OF EXISTING RETAINING WALLS STATIONS 25+50 TO 26+00 LT. SEE V SHEETS FOR DETAILS.
23	SEE TABULATION 190-62. THREE SIGNS IN CHURCH PARKING LOT (NEAR STA 1+50) TO BE SALVAGED AND RETURNED TO OWNER. CONTRACTOR TO NOTIFY CHURCH PRIOR TO REMOVAL AND TO CAREFULLY REMOVE THE SIGNS AND PLACE IN R.O.W. FOR CITY PICKUP. FOR ALL OTHER SIGNS, CONTRACTOR SHALL NOTIFY TIPTON MAINTENANCE AT 563-946-2391, AND CAREFULLY REMOVE AND STORE SIGNS IN R.O.W. FOR PICKUP BY STATE MAINTENANCE CREWS.
24	FOR RETAINING WALL AND STAIRS, AS DETAILED IN THE V SHEETS, 25+50 TO 26+00 LT. CONTRACTOR SHALL SUPPLY CERTIFIED PLANT INSPECTION.
25	FOR REINFORCED PCC PANELS AS SHOWN ON PLAN SHEET L.9 (DIV 1 = 4062 LBS). ALSO FOR RETAINING WALL AND STAIRS, AS DETAILED IN THE V SHEETS, 25+50 TO 26+00 LT (DIV 2 = 273 LBS).
26	SEE M SHEETS FOR DETAILS AND TABULATION 104-5B. INCLUDES TRASH RACKS.
27	SEE M SHEETS FOR DETAILS AND TABULATION 104-5B. INCLUDES TRASH RACKS.
28	AT LOCATIONS AS INDICATED ON THE MU SHEETS. INTERNAL CHIMNEY SEAL ONLY. ITEM SHALL BE PRECAST ONLY. CONTRACTOR SHALL SUPPLY CERTIFIED PLANT INSPECTION FOR CAST IN PLACE COMPONENTS. INCLUDES CONNECTIONS TO EXISTING PIPE. SHALL INCLUDE O-RINGS.
29	ALL ADDITIONAL COSTS NECESSARY FOR THE COMPONENTS ASSOCIATED WITH AN INTERNAL DROP MANHOLE SHALL BE INCLUDED IN THIS BID ITEM. SHALL INCLUDE THE FLEXIBLE CONNECTION WITH SS SHEAR BAND LOCATED 5 FOOT OUTSIDE OF THE INTERNAL DROP MANHOLE. SHALL INCLUDE O-RINGS AND INTERNAL CHIMNEY SEAL.
30	SIZE SHALL BE 60 INCH INSIDE DIMENSION WITH 6-INCH WALL THICKNESS.
31	CONTRACTOR SHALL SUPPLY CERTIFIED PLANT INSPECTION FOR ANY CAST-IN-PLACE COMPONENTS.
32	CONTRACTOR SHALL SUPPLY CERTIFIED PLANT INSPECTION FOR ANY CAST-IN-PLACE COMPONENTS.
33	CONTRACTOR SHALL SUPPLY CERTIFIED PLANT INSPECTION FOR ANY CAST-IN-PLACE COMPONENTS. SEE PLAN SHEET U.1.
34	CONTRACTOR SHALL SUPPLY CERTIFIED PLANT INSPECTION FOR ANY CAST-IN-PLACE COMPONENTS.
35	CONTRACTOR SHALL SUPPLY CERTIFIED PLANT INSPECTION FOR ANY CAST-IN-PLACE COMPONENTS. SEE PLAN SHEET U.2 AND U.3.
36	CONTRACTOR SHALL SUPPLY CERTIFIED PLANT INSPECTION FOR ANY CAST-IN-PLACE COMPONENTS.
37	FOR ADJUSTMENT OF EXISTING SANITARY SEWER MANHOLES LOCATED NEAR STATIONS 14-14 LT, 15+57 LT AND 29+59 LT.
38	FOR CONNECTION TO SANITARY MANHOLE AT STATION 23+52.94 (MH 4). SEE PLAN SHEET MU.6.
39	TO BE PLACED AS SHOWN ON THE D SHEETS. COST FOR SUBDRAIN CONNECTIONS AND END-CAPS SHALL BE INCIDENTAL TO AND INCLUDED IN THE PAYMENT UNDER THIS ITEM. LOCATION SHALL BE AS SHOWN ON TYPICAL SECTIONS. CONNECTIONS SHALL BE IN ACCORDANCE TO SPECIFICATION 2502. FOR CONNECTION TO INLETS FROM BEGINNING OF PROJECT TO STATION 27+00, A 6 INCH CPE SLEEVE SHALL BE INSERTED INTO THE INLET/MANHOLE AT A MAXIMUM OF 1 INCH ABOVE THE FILLET. INSERT DRAIN TILE THROUGH SLEEVE. CONNECTION LOCATION SHALL BE AT THE DISCRETION OF THE CONTRACTOR. STEEL POSTS ARE REQUIRED AT OUTLETS FROM STATION 27+00 TO EOP ONLY. TABULATION ON C SHEETS.
40	SEE TABULATION 104-9
41	SEE TABULATION 104-9
42	REFER TO TABULATION 104-5B AND ROAD STANDARDS SW-101 AND SW-102. INCLUDES COST OF BEDDING, HAUNCH SUPPORT, AND PRIMARY, SECONDARY AND FINAL TRENCH BACKFILL USING GRADATION 30 OR GRADATION 32 MATERIAL IN ALL AREAS WHERE PIPE IS PLACED UNDER OR WITHIN FIVE FEET OF PROPOSED PAVEMENT. CONNECTIONS TO EXISTING PIPES SHALL BE IN ACCORDANCE TO STANDARD ROAD PLAN SW-211 UNLESS EXACT MATING OF BELL AND SPIGOT OR TONGUE AND GROOVE CAN BE ACHIEVED.
43	REFER TO TABULATION 104-5B AND ROAD STANDARDS SW-101 AND SW-102. INCLUDES COST OF BEDDING, HAUNCH SUPPORT, AND PRIMARY, SECONDARY AND FINAL TRENCH BACKFILL USING GRADATION 30 OR GRADATION 32 MATERIAL IN ALL AREAS WHERE PIPE IS PLACED UNDER OR WITHIN FIVE FEET OF PROPOSED PAVEMENT. CONNECTIONS TO EXISTING PIPES SHALL BE IN ACCORDANCE TO STANDARD ROAD PLAN SW-211 UNLESS EXACT MATING OF BELL AND SPIGOT OR TONGUE AND GROOVE CAN BE ACHIEVED.
44	REFER TO TABULATION 104-5B AND ROAD STANDARDS SW-101 AND SW-102. INCLUDES COST OF BEDDING, HAUNCH SUPPORT, AND PRIMARY, SECONDARY AND FINAL TRENCH BACKFILL USING GRADATION 30 OR GRADATION 32 MATERIAL IN ALL AREAS WHERE PIPE IS PLACED UNDER OR WITHIN FIVE FEET OF PROPOSED PAVEMENT. CONNECTIONS TO EXISTING PIPES SHALL BE IN ACCORDANCE TO STANDARD ROAD PLAN SW-211 UNLESS EXACT MATING OF BELL AND SPIGOT OR TONGUE AND GROOVE CAN BE ACHIEVED.
45	REFER TO TABULATION 104-5B AND ROAD STANDARDS SW-101 AND SW-102. INCLUDES COST OF BEDDING, HAUNCH SUPPORT, AND PRIMARY, SECONDARY AND FINAL TRENCH BACKFILL USING GRADATION 30 OR GRADATION 32 MATERIAL IN ALL AREAS WHERE PIPE IS PLACED UNDER OR WITHIN FIVE FEET OF PROPOSED PAVEMENT. CONNECTIONS TO EXISTING PIPES SHALL BE IN ACCORDANCE TO STANDARD ROAD PLAN SW-211 UNLESS EXACT MATING OF BELL AND SPIGOT OR TONGUE AND GROOVE CAN BE ACHIEVED.
46	REFER TO TABULATION 104-5B AND ROAD STANDARDS SW-101 AND SW-102. INCLUDES COST OF BEDDING, HAUNCH SUPPORT, AND PRIMARY, SECONDARY AND FINAL TRENCH BACKFILL USING GRADATION 30 OR GRADATION 32 MATERIAL IN ALL AREAS WHERE PIPE IS PLACED UNDER OR WITHIN FIVE FEET OF PROPOSED PAVEMENT. CONNECTIONS TO EXISTING PIPES SHALL BE IN ACCORDANCE TO STANDARD ROAD PLAN SW-211 UNLESS EXACT MATING OF BELL AND SPIGOT OR TONGUE AND GROOVE CAN BE ACHIEVED.
47	REFER TO TABULATION 104-5B AND ROAD STANDARDS SW-101 AND SW-102. INCLUDES COST OF BEDDING, HAUNCH SUPPORT, AND PRIMARY, SECONDARY AND FINAL TRENCH BACKFILL USING GRADATION 30 OR GRADATION 32 MATERIAL IN ALL AREAS WHERE PIPE IS PLACED UNDER OR WITHIN FIVE FEET OF PROPOSED PAVEMENT. CONNECTIONS TO EXISTING PIPES SHALL BE IN ACCORDANCE TO STANDARD ROAD PLAN SW-211 UNLESS EXACT MATING OF BELL AND SPIGOT OR TONGUE AND GROOVE CAN BE ACHIEVED.

Design For
IA 38
FROM W JCT US 30 TO NCL STANWOOD

REFERENCE NOTES

Station:.
CITY OF STANWOOD, CEDAR COUNTY

Date:.

DESIGNED BY: _____	TRACED BY: _____		563.556.2464 ♦ 800.556.4491 IIW, P.C. ♦ www.iiwengr.com	CITY OF STANWOOD, CEDAR COUNTY	PROJECT NUMBER	STP-038-2(37)--2C-16	STATE	FED. ROAD DIST. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
DETAILED BY: _____	CHECKED BY: _____						IOWA	.	2016	C.2	144

REF.	DATA BELOW IS FOR INFORMATION ONLY AND DOES NOT CONSTITUTE A BASIS FOR EXTRA WORK ORDER REQUESTS
NO.	ESTIMATE REFERENCE INFORMATION
48	SEE M SHEETS AND TABULATION 110-14 FOR REMOVAL LOCATIONS. TO BE REMOVED AS NECESSARY FOR THE INSTALLATION OF THE NEW STORM SEWER OR AS NEEDED FOR ROADWAY CONSTRUCTION. EXCAVATION TRENCH SHALL BE BACKFILLED WITH CLASS A (GRADATION 11) STONE COMPACTED TO 95% MAXIMUM STANDARD PROCTOR DENSITY IN 8-INCH LIFTS. PAYMENT UNDER THIS ITEM WILL INCLUDE FULL COMPENSATION FOR FURNISHING AND PLACEMENT OF BACKFILL. NO SEPARATE PAYMENT WILL BE MADE FOR BACKFILL.
49	REFER TO MU PLAN SHEETS AND ROAD STANDARD SW-103. INCLUDES COST OF BEDDING, HAUNCH SUPPORT, AND PRIMARY, SECONDARY AND FINAL TRENCH BACKFILL USING TYPE II BEDDING ONLY WHERE PIPE IS PLACED UNDER OR WITHIN FIVE FEET OF PROPOSED PAVEMENT OR GRANULAR SURFACING. IN LOCATIONS NOT WITHIN 5 FEET OF PROPOSED PAVEMENT OR GRANULAR SURFACING THE FINAL BACKFILL MAY BE DONE USING TYPE III, IVA, OR IVB. THE APPROXIMATE LOCATIONS WHERE TYPE II BACKFILL WILL NOT BE REQUIRED ARE AS FOLLOWS: STA 10+08 TO 11+33; STA 11+90 TO 12+13; STA 30+12 TO 31+33; AND STA 32+03 TO 33+44. CONNECTIONS TO EXISTING PIPES SHALL BE WITH FLEXIBLE COUPLING WITH SS SHEAR RINGS. CONNECTION SHALL BE INCIDENTAL TO THIS BID ITEM AND SHALL NOT BE PAID FOR SEPARATELY. ONLY SOLID WALL PVC SHALL BE ACCEPTED. SHALL BE PVC SDR 26 PER ASTM D3034 WITH ELASTOMERIC GASKETS.
50	REFER TO MU PLAN SHEETS AND ROAD STANDARDS SW-103. INCLUDES COST OF BEDDING, HAUNCH SUPPORT, AND PRIMARY, SECONDARY AND FINAL TRENCH BACKFILL USING GRADATION 30 OR GRADATION 32 MATERIAL IN ALL AREAS WHERE PIPE IS PLACED UNDER OR WITHIN FIVE FEET OF PROPOSED PAVEMENT. CONNECTIONS TO EXISTING PIPES SHALL BE IN ACCORDANCE TO STANDARD ROAD PLAN SW-211 UNLESS EXACT MATING OF BELL AND SPIGOT OR TONGUE AND GROOVE CAN BE ACHIEVED. THE CASING PIPE SHALL BE 16 INCH. THERE SHALL BE A MINIMUM OF 3/8 INCH WALL THICKNESS FOR THE CARRIER PIPE. ONLY SOLID WALL PVC SHALL BE ACCEPTED. SHALL BE PVC SDR 26 PER ASTM D3034 WITH ELASTOMERIC GASKETS. CASING SPACERS ARE TO BE INCLUDED AND AT A MINIMUM EACH PIPE SHALL HAVE A MINIMUM OF 3 CASING SPACERS. CASING SPACERS SHALL BE STAINLESS STEEL WITH POLYMERIC GUIDES. ALL BOLTS AND NUTS USED TO ASSEMBLE THE CASING SPACERS SHALL BE STAINLESS STEEL. THE CASING SPACERS SHALL CENTER THE SANITARY SEWER IN THE STEEL CASING.
51	REFER TO MU PLAN SHEETS AND ROAD STANDARDS SW-201. INCLUDES COST OF BEDDING, HAUNCH SUPPORT, AND PRIMARY, SECONDARY AND FINAL TRENCH BACKFILL USING GRADATION 30 OR GRADATION 32 MATERIAL IN ALL AREAS WHERE PIPE IS PLACED UNDER OR WITHIN FIVE FEET OF PROPOSED PAVEMENT OR GRANULAR SURFACING. IN LOCATIONS NOT WITHIN 5 FEET OF PROPOSED PAVEMENT OR GRANULAR SURFACING THE FINAL BACKFILL MAY BE DONE USING TYPE III, IVA, OR IVB. CONNECTIONS TO EXISTING PIPES SHALL BE IN ACCORDANCE TO STANDARD ROAD PLAN SW-211 UNLESS EXACT MATING OF BELL AND SPIGOT OR TONGUE AND GROOVE CAN BE ACHIEVED. SANITARY SEWER SERVICE STUBS SHALL BE PVC SDR 26 PER ASTM D3034 WITH ELASTOMERIC GASKETS.
52	REFER TO MU PLAN SHEETS AND ROAD STANDARDS SW-201. INCLUDES COST OF BEDDING, HAUNCH SUPPORT, AND PRIMARY, SECONDARY AND FINAL TRENCH BACKFILL USING GRADATION 30 OR GRADATION 32 MATERIAL IN ALL AREAS WHERE PIPE IS PLACED UNDER OR WITHIN FIVE FEET OF PROPOSED PAVEMENT OR GRANULAR SURFACING. IN LOCATIONS NOT WITHIN 5 FEET OF PROPOSED PAVEMENT OR GRANULAR SURFACING THE FINAL BACKFILL MAY BE DONE USING TYPE III, IVA, OR IVB. CONNECTIONS TO EXISTING PIPES SHALL BE IN ACCORDANCE TO STANDARD ROAD PLAN SW-211 UNLESS EXACT MATING OF BELL AND SPIGOT OR TONGUE AND GROOVE CAN BE ACHIEVED. SANITARY SEWER SERVICE STUBS SHALL BE PVC SDR 26 PER ASTM D3034 WITH ELASTOMERIC GASKETS.
53	APPLIES TO ALL SANITARY SEWER REPLACED AS PART OF THIS PROJECT, AS INDICATED TABULATION 110-14.
54	AS INDICATED ON MU SHEETS AND TABULATION 110-14, APPROXIMATE MAINLINE STATION 2+43 TO WEST TO EXISTING MANHOLE BEHIND CHURCH. PLUG ONLY, FILL NOT REQUIRED.
55	FOR FULL-DEPTH SAWCUTTING AND REMOVAL OF ALL EXISTING STREET PAVEMENT, INCLUDING CURB AND GUTTER, TO THE LIMITS NECESSARY TO CONSTRUCT THE IMPROVEMENT. VERIFY REMOVAL LIMITS WITH THE ENGINEER PRIOR TO REMOVAL.
56	SEE TABULATION 110-15. EXCEPT WHERE PIPE IS NOTED TO BE REMOVED, CAREFUL REMOVAL OF EXISTING INTAKES AND UTILITY ACCESSES SO AS NOT TO DAMAGE THE EXISTING STORM SEWER PIPE.
57	SEE TABULATION 110-5. VERIFY REMOVAL LIMITS WITH THE ENGINEER PRIOR TO REMOVAL. INCLUDES REMOVAL OF SIDEWALK THROUGH DRIVEWAYS.
58	SEE TABULATION 113-1 FOR SIDEWALK, L SHEETS FOR JOINTING AND STAKING INFORMATION. CONTRACTOR TO SUPPLY CERTIFIED PLANT INSPECTION. PEDESTRIAN RAMP CURB SHALL BE PLACED AS SHOWN ON THE S SHEETS AND IN SECTION D-D ON STANDARD ROAD PLAN M1-220 AND SHALL BE INTEGRALLY CAST WITH SIDEWALK. NO ADDITIONAL PAYMENT WILL BE MADE SHOULD THE CONTRACTOR CHOOSE TO UTILIZE STONE FOR LEVELING PURPOSES.
59	SEE TABULATION 113-1 FOR SIDEWALK, L SHEETS FOR JOINTING AND STAKING INFORMATION. CONTRACTOR TO SUPPLY CERTIFIED PLANT INSPECTION. PEDESTRIAN RAMP CURB SHALL BE PLACED AS SHOWN ON THE S SHEETS AND IN SECTION D-D ON STANDARD ROAD PLAN M1-220 AND SHALL BE INTEGRALLY CAST WITH SIDEWALK. SIDEWALK AREA WITHIN DRIVEWAYS WILL BE PAID FOR AS DRIVEWAY. CREATE AN ADA-COMPLIANT PATH A MINIMUM OF 5 FEET WIDE THROUGH DRIVEWAY. NO ADDITIONAL PAYMENT WILL BE MADE SHOULD THE CONTRACTOR CHOOSE TO UTILIZE STONE FOR LEVELING PURPOSES.
60	DETECTABLE WARNINGS SHALL BE IN ACCORDANCE WITH IDOT "MATERIALS I.M. 411". TYPES OF ACCEPTABLE PANELS SHALL BE PRECAST AND MODULAR TYPES ONLY. SURFACE-APPLIED AND STAMPED CONCRETE TYPES OF WARNING PANELS SHALL NOT BE ACCEPTABLE. CAST-IN-PLACE COMPONENTS INCLUDE CERTIFIED PLANT INSPECTION. THE QUANTITY OF DETECTABLE WARNINGS INSTALLED SHALL BE THE QUANTITY MEASURED BY THE ENGINEER TO THE NEAREST 0.1 SF.
61	CONTRACTOR TO SUPPLY CERTIFIED PLANT INSPECTION. METHOD OF MEASUREMENT: THE QUANTITY OF CURB AND GUTTER CONSTRUCTED SHALL BE QUANTITY MEASURED BY THE ENGINEER TO THE NEAREST 0.1 LF. 2.5' PCC CURB AND GUTTER FOR SIDE STREETS, AS INDICATED IN THE PLAN DRAWINGS, IN ASSOCIATION WITH HMA PAVING.
62	SEE C SHEETS FOR DRIVEWAY PLACEMENT LOCATIONS. CONTRACTOR TO SUPPLY CERTIFIED PLANT INSPECTION. INCLUDES AREA FROM THE BACK OF THE CURB TO THE FRONT OF THE SIDEWALK AND FROM THE BACK OF THE SIDEWALK TO THE POINT WHERE THE EXISTING DRIVEWAY MATCHES. AREA WITHIN SIDEWALK WILL BE PAID FOR AS DRIVEWAY. CREATE AN ADA PATH A MINIMUM OF 5 FEET WIDE. CONSTRUCTION SHALL BE AS PROVIDED IN STANDARD ROAD PLAN M1-210, 'CASE 2 ENTRANCE'.
63	REMOVAL AT LOCATIONS AS DIRECTED BY THE ENGINEER. INCLUDES CORE OUT AND PREPARATION OF EXISTING MATERIAL TO ALLOW PLACEMENT OF 6 INCHES OF MODIFIED SUBBASE (SEE DETAIL ON B SHEETS). MODIFIED SUBBASE SHALL BE PAID FOR SEPARATELY. METHOD OF MEASUREMENT: THE QUANTITY OF DRIVEWAY REMOVED, SHALL BE THE AMOUNT MEASURED BY THE ENGINEER TO THE NEAREST 0.1 SY. FOR THE AMOUNT OF DRIVEWAY SUCCESSFULLY REMOVED THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE PER SY. THIS PAYMENT SHALL INCLUDE ALL EQUIPMENT, MATERIALS, TOOLS AND LABOR NECESSARY TO REMOVE PAVED DRIVEWAYS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
64	PLACEMENT ON ROADWAY FOR CLOSURE DURING CONSTRUCTION OPERATIONS. SEE TABULATION ON C SHEETS.
65	FOR FENCE AT STA 30+29, 3.79R TO STA 31+04, 2.63R AS SHOWN ON SHEET MU.7. CAREFULLY REMOVE AND REINSTALL FENCE FABRIC AND TOP RAIL FOR REINSTALLATION. ALL FENCE POSTS AND ACCESSORIES SHALL BE REPLACED. THE FENCE POSTS AND ACCESSORIES WILL BE CONSIDERED INCIDENTAL TO THIS BID ITEM.
66	INCLUDES EXISTING SIGN AT APPROX. STA. 24+90 L. SEE SHEET D.5 FOR LOCATION. CONTRACTOR SHALL CAREFULLY REMOVE AND STORE THE SIGN WITH FLASHER AND POST. ANY DAMAGE TO ANY OF THE EXISTING MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACT WILL RE-INSTALL SIGN AT APPROXIMATELY THE SAME LOCATION, FOLLOWING MUTCD AND IDOT SPECIFICATIONS. METHOD OF MEASUREMENT: CONTRACTOR SHALL BE PAID AS EACH. BASIS OF PAYMENT: THE QUANTITY OF SUCCESSFUL REMOVAL AND INSTALLATION SHALL BE CONSIDERED AS ONE COUNT. THIS PAYMENT SHALL INCLUDE ALL EQUIPMENT, MATERIALS, TOOLS AND LABOR NECESSARY TO REMOVE AND REPLACE THE SIGN AND APPURTENANCES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

REF.	DATA BELOW IS FOR INFORMATION ONLY AND DOES NOT CONSTITUTE A BASIS FOR EXTRA WORK ORDER REQUESTS
NO.	ESTIMATE REFERENCE INFORMATION
67	TO BE INSTALLED AT RAILROAD CROSSING TO DELINEATE CROSSING SIGNAL. SEE TABULATION 190-25.
68	SEE TABULATION 190-25.
69	SEE TABULATION 190-51.
70	SEE TABULATION 190-66.
71	REFER TO TABULATIONS 190-51 AND 190-66.
72	PLACEMENT SHALL BE IN ACCORDANCE WITH APPLICABLE STANDARD ROAD PLANS. SEE TABULATION 108-22.
73	FOR TRAFFIC SHFT ON US 30 DURING STAGED CONSTRUCTION AT IA 38. SEE DETAIL ON J SHEETS AND APPLICABLE STANDARD ROAD PLANS. SEE TABULATION 108-22.
74	SEE TABULATION 108-29.
75	FOR TRAFFIC SHIFT ON US 30 DURING STAGED CONSTRUCTION AT IA 38. SEE DETAIL ON J SHEETS AND APPLICABLE STANDARD ROAD PLANS. SEE TABULATION 108-22.
76	SEE J SHEETS FOR DETOUR AND TRAFFIC CONTROL NOTES.
77	TO BE PLACED AS INDICATED ON THE J SHEETS.
78	FOR MOBILIZATION.
79	AS INDICATED ON MU SHEETS, INTENDED FOR USE WITH SANITARY SEWER LOCATED AT APPROXIMATE MAINLINE STATION 2+43 TO WEST TO EXISTING MANHOLE BEHIND CHURCH. QUANTITY ESTIMATE BASED UPON 110 LF, 1 FOOT THICK, WITH A TRENCH BOTTOM WIDTH OF 2 FEET 3 INCHES. TO BE USED TO STABILIZE UNSUITABLE, AND/OR UNSTABLE SOILS ENCOUNTERED IN UTILITY TRENCHES. ANTICIPATED TO BE NEEDED IN TRENCHES GREATER THAN 5-FEET IN DEPTH, WHERE EXISTING UTILITY ALIGNMENT DIFFERS FROM PROPOSED.
80	6" DIP WATER MAIN SHALL BE CLASS 350 OR 50 PER AWWA C151 WITH ELASTOMERIC JOINTS. POLYETHYLENE ENCASEMENT REQUIRED.
81	4" PVC WATER MAIN SHALL BE PVC CLASS 235 DR 18 PER AWWA C900, WITH ELASTOMERIC GASKET JOINTS.
82	6" PVC WATER MAIN SHALL BE PVC CLASS 235 DR 18 PER AWWA C900, WITH ELASTOMERIC GASKET JOINTS. POLYSTYRENE BOARD INSULATION WITH MINIMUM R VALUE OF 5 PER 1" THICKNESS TO BE INSTALLED IN 2" MIN. THICKNESS FOR A MINIMUM WIDTH OF 3' CENTERED ON WATER MAIN IN DITCH CUT, NORTH OF FARMERS STREET, FROM STA 27+50 TO 28+00, AS SHOWN ON MU SHEETS. INSULATION BOARD INCIDENTAL TO BID ITEM.
83	THE CASING PIPE SHALL BE 12 INCH WITH MINIMUM OF 3/8 INCH WALL THICKNESS. POLYETHYLENE ENCASEMENT REQUIRED. CASING SPACERS ARE TO BE INCLUDED, AT A MINIMUM EACH PIPE SHALL HAVE A MINIMUM OF 2 CASING SPACERS. CASING SPACERS SHALL BE STAINLESS STEEL WITH POLYMERIC GUIDES. ALL BOLTS AND NUTS USED TO ASSEMBLE THE CASING SPACERS SHALL BE STAINLESS STEEL. THE CASING SPACERS SHALL CENTER THE WATER MAIN IN THE STEEL CASING.
84	POLYETHYLENE ENCASEMENT REQUIRED. CONNECTIONS WITH EXISTING WATER MAIN SHALL BE MADE WITH FITTINGS. COUPLINGS MAY BE USED FOR THE CONNECTIONS WITH EXISTING, THE COUPLINGS SHALL HAVE DUCTILE IRON OR STAINLESS STEEL BODIES AND STAINLESS STEEL FASTENERS AND HARDWARE. CONNECTIONS WITH THE EXISTING WATER MAIN WILL BE PAID FOR BY THE POUND FOR THE APPROPRIATELY SIZED SLEEVE. NO ADDITIONAL WEIGHT WILL BE PAID FOR IF THE CONTRACTOR WISHES TO UTILIZE COUPLINGS. BID QUANTITY INCLUDES AN ESTIMATE OF 51 MEGALUGS.
85	TAPPING SADDLES ARE REQUIRED FOR EACH SERVICE STUB INSTALLED. TAPPING SADDLES SHALL BE DUCTILE IRON BODY WITH STAINLESS STEEL STRAPS AND FASTENERS AND HARDWARE. THE TAPPING SADDLES SHALL HAVE AWWA/C C THREADED OUTLETS. THE CORPORATION STOPS FOR THE WATER SERVICES SHALL BE MUELLER B25008N. THE CURB STOPS FOR THE WATER SERVICES SHALL BE MUELLER B25155N. THE CURB BOXES FOR THE WATER SERVICES SHALL BE MUELLER H-10332. THE FOLLOWING IS ONLY APPLICABLE TO THE PROPOSED WATER SERVICES LOCATED ON THE EAST SIDE OF HIGHWAY 38 (ASH STREET): HOUSE/PRIVATE SIDE OF THE CURB STOP THE CONTRACTOR SHALL UTILIZE A 1 FOOT (MINIMUM) LONG SEGMENT OF POLYETHYLENE TUBE BETWEEN THE PROPOSED CURB STOP AND EXISTING WATER SERVICE. THE POLYETHYLENE TUBE SHALL BE CTS POLYETHYLENE (PE) PER ASTM D-2737 SDR-9. THE CONNECTION TO EXISTING WATER SERVICE SHALL BE MADE WITH A BRASS COMPRESSION COUPLING. COMPRESSION CONNECTIONS WITH POLYETHYLENE TUBE WILL REQUIRE STAINLESS STEEL INSERT STIFFENER LINERS.

MODIFIED PER
ADDENDUM

Design For
IA 38
FROM W JCT US 30 TO NCL STANWOOD

REFERENCE NOTES

Station:.. Date:..
CITY OF STANWOOD, CEDAR COUNTY

DESIGNED BY:	TRACED BY:
DETAILED BY:	CHECKED BY:

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CITY OF STANWOOD, CEDAR COUNTY	PROJECT NUMBER
STP-038-2(37)-2C-16	STATE
IOWA	FED. ROAD DIST. NO.
.	FISCAL YEAR
2016	SHEET NO.
C.3	TOTAL SHEETS
144	

REF.	DATA BELOW IS FOR INFORMATION ONLY AND DOES NOT CONSTITUTE A BASIS FOR EXTRA WORK ORDER REQUESTS
NO.	ESTIMATE REFERENCE INFORMATION
86	GATE VALVES SHALL BE MUELLER 2361 RESILIENT WEDGE GATE VALVES.
87	GATE VALVES SHALL BE MUELLER 2361 RESILIENT WEDGE GATE VALVES.
88	FIRE HYDRANTS SHALL BE EITHER: MUELLER SUPER CENTURION OR WATEROUR PACER (5-1/4") FIRE HYDRANTS. NO SEPARATE PAYMENT WILL BE MADE FOR HYDRANT EXTENSIONS. HYDRANT ASSEMBLY FOR HYDRANT NO. 3 SHALL INCLUDE ALL ITEMS FROM HYDRANT TO 6 INCH VALVE, 3 FEET WEST OF HYDRANT, INC.LUDING THE ASSOCIATED VALVE. ALL OTHER HYDRANT ASSEMBLIES WOULD BE PER DETAIL WM-201.
89	RAILROAD PROTECTIVE LIABILITY INSURANCE AS REQUIRED BY DS-15027.
90	SEE DETAIL ON B SHEETS. BID ITEM INCLUDES 2 INCH X 2 INCH X 8 FOOT PERFORATED SQUARE STEEL TUBE POST, ANCHOR, FOUNDATION, SIGN PANELS WITH STREET NAMES ON BOTH SIDES, BRACKETS AND LABOR NECESSARY TO INSTALL SIGN ASSEMBLY. TO BE INSTALLED ON THE NORTHEAST CORNER OF EACH INTERSECTION. METHOD OF MEASUREMENT IS FOR EACH SIGN ASSEMBLY. BASIS OF PAYMENT IS CONTRACT UNIT PRICE FOR FULL COMPENSATION TO FURNISH AND INSTALL EACH SIGN ASSEMBLY.
91	FOR WATER SERVICES CROSSING IA 38. ALSO FOR FUTURE WATER MAIN CONSTRUCTION NORTH OF THE UP RAILROAD. PVC SHALL BE SCHEDULE 80. ENDS OF CASINGS FOR FUTURE CONSTRUCTION TO BE WRAPPED ENGINEERING FABRIC AND AFFIXED WITH DUCT TAPE. PREVENT PUNCTURING OF ENGINEERING FABRIC DURING BACKFILL OF TRENCH. METHOD OF MEASUREMENT: THE ENGINEER MEASURE LF OF CASING. BASIS OF PAYMENT: FOR THE QUANTITY OF CASING, PVC, 3 INCH, THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE PER LF. THIS PAYMENT WILL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR AND EQUIPMENT NEEDED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS
92	FOR FUTURE WATER MAIN CONSTRUCTION NORTH OF THE UP RAILROAD. ENDS OF CASINGS FOR FUTURE CONSTRUCTION TO BE WRAPPED ENGINEERING FABRIC AND AFFIXED WITH DUCT TAPE. PREVENT PUNCTURING OF ENGINEERING FABRIC DURING BACKFILL OF TRENCH. METHOD OF MEASUREMENT: THE ENGINEER MEASURE LF OF CASING. BASIS OF PAYMENT: FOR THE QUANTITY OF CASING, PVC, 12 INCH, THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE PER LF. THIS PAYMENT WILL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR AND EQUIPMENT NEEDED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS
93	INCLUDES SAWCUT ALONG EDGE OF US30 FOR PAVED SHOULDER CONSTRUCTION (APPROXIMATE STATION 90+15 TO 91+73, 620 LF). RADIUS AT INTERSECTION OF ASH AND BROADWAY STREET (55 LF). ALL OTHER SAW CUTS SHALL BE CONSIDERED INCIDENTAL TO THE REMOVALS ITEM. METHOD OF MEASUREMENT: THE QUANTITY OF FULL DEPTH SAW CUT, SHALL BE THE AMOUNT MEASURED BY THE ENGINEER TO THE NEAREST 0.1 LF. BASIS OF PAYMENT: FOR THE AMOUNT OF FULL DEPTH SAW CUT THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE PER LF. THIS PAYMENT SHALL INCLUDE ALL EQUIPMENT, MATERIALS, TOOLS AND LABOR NECESSARY TO FULL DEPTH SAW CUT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
94	FURNISH AND INSTALL ORNAMENTAL METAL RAILING ASSOCIATED WITH STEPS/STAIRS (25+50 TO 26+00 LT) AS INDICATED IN DETAILS ON THE B SHEETS. MEASUREMENT WILL BE IN LINEAR FEET FOR ORNAMENTAL SAFETY RAIL, MEASURED ALONG THE TOP OF THE RAIL FROM END OF RAIL TO END OF RAIL. PAYMENT WILL BE AT THE UNIT PRICE PER LINEAR FOOT OF ORNAMENTAL SAFETY RAIL. PAYMENT SHALL INCLUDE ALL EQUIPMENT, MATERIALS, TOOLS AND LABOR NECESSARY TO INSTALL ORNAMENTAL SAFETY RAIL.
95	POLYSTYRENE BOARD INSULATION, WITH A MINIMUM R VALUE OF 5 PER 1" THICKNESS, TO BE INSTALLED IN 2' MIN. THICKNESS FOR A MINIMUM WIDTH OF 3' CENTERED ON WATER MAIN. INSTALL ON WATER MAIN IN DITCH CUT, NORTH OF FARMERS STREET, FROM STA 27+45 TO 28+01, AND ON EXISTING WATER MAIN AND SERVICES FROM STA 14+25 TO 16+60 AS SHOWN ON MU SHEETS. THE POLYSTYRENE BOARD INSULATION AT STA 14+25 TO 16+60 (ALONG ASH ST/HWY 38), NEAR THE BROADWAY STREET INTERSECTION, SHALL BE INSTALLED A MINIMUM 6" BELOW THE PROPOSED FLOW LINE OF THE NEARBY SUBDRAIN. METHOD OF MEASUREMENT: ENGINEER WILL MEASURE SY OF INSULATION INSTALLED. BASIS OF PAYMENT: FOR THE QUANTITY OF INSULATION INSTALLED, THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE PER SY. PAYMENT WILL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, AND EQUIPMENT NEEDED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
96	ANTICIPATED BETWEEN 16+00 AND 18+50, SUBJECT TO APPROVAL OF THE ENGINEER AS DETERMINED THROUGH PROOF-ROLLING OF THE PROPOSED SUBRADE PRIOR TO PLACEMENT OF BASE STONE. USE MACADAM MATERIAL IDOT GRADATION 13 EXCEPT THAT IT SHALL NOT BE SCREENED OVER THE 3/4 INCH OR 1 INCH SCREEN. THIS MATERIAL IS TO BE USED AS SUBGRADE STABILIZATION MATERIAL. IF SUBGRADE STABILIZATION IS NECESSARY, AND IF AUTHORIZED IN LOCATIONS IN ADVANCE BY THE ENGINEER OR OWNER, THE BID UNIT PRICES SHALL GOVERN. ENGINEER WILL DETERMINE AREA AND THICKNESS TO BE STABILIZED. INCLUDES EXCAVATION AND DISPOSAL OF THE EXCAVATED MATERIAL. METHOD OF MEASUREMENT: THE ENGINEER WILL MEASURE THE TONS PLACED BASED ON WEIGHT TICKETS. BASIS OF PAYMENT: FOR THE TONS PLACED, THE CONTRACTOR WILL BE PAID THE UNIT PRICE PER TON WHICH INCLUDES ALL LABOR AND MATERIALS NECESSARY FOR SUBGRADE STABILIZATION.
97	ALL DISTURBED AREAS WITHOUT PAVEMENT, SIDEWALK OR STONE.
98	DISTURBED AREAS WITHOUT PAVEMENT, SIDEWALK OR STONE AS SHOWN ON THE EC PLAN SHEETS.
99	DISTURBED AREAS WITHOUT PAVEMENT, SIDEWALK OR STONE AS SHOWN ON THE EC PLAN SHEETS.
100	PLACED IN ACCORDNACE WITH STANDARD ROAD PLAN EC-101 AND TO THE LIMITS IDENTIFIED IN THE EROSION CONTROL PLANS.
101	REFER TO EC SHEETS FOR LOCATIONS AND TABULATION ON C SHEETS FOR QUANTITIES. THE EC SHEETS INCLUDE ESTIMATED LOCATIONS OF SILT FENCE TO ADDRESS EROSION TO BE ENCOUNTERED DURING CONSTRUCTION. VERIFY THE SPECIFIC LOCATIONS WITH THE ENGINEER PRIOR TO BEGINNING PLACEMENT. BID ITEM INCLUDES 25% ADDITIONAL QUANTITTY FOR FIELD ADJUSTMENTS AND REPLACEMENTS.
102	REFER TO EC SHEETS FOR LOCATIONS AND TABULATION ON C SHEETS FOR QUANTITIES. THE EC SHEETS INCLUDE ESTIMATED LOCATIONS OF SILT FENCE TO ADDRESS EROSION THAT MAY BE ENCOUNTERED DURING CONSTRUCTION. VERIFY THE SPECIFIC LOCATIONS WITH THE ENGINEER PRIOR TO BEGINNING PLACEMENT. BID ITEM DOES INCLUDES 50% ADDITIONAL QUANTITTY FOR FIELD ADJUSTMENTS AND REPLACEMENTS.
103	FOR REMOVAL OF SILT FENCE AND SILT FENCE FOR DITCH CHECKS.
104	THIS ITEM IS INCLUDED FOR CLEAN-OUT AND REPAIR OF THE SILT FENCE DURING THE CONSTRUCTION OF THE PROJECT. QUANTITY IS ESTIMATED TO BE 10% OF THE INSTALLED QUANTITY.
105	PLACED AS INDICATED IN A DETAIL ON THE B SHEETS AND THE TABULATION ON C SHEETS. FOR INLET PROTECTION AND SEDIMENT CONTROL. PLACE IN ACCORDANCE WITH STANDARD ROAD PLAN EC-204 AS SHOWN ON THE EC SHEETS AND TABULATED ON THE C SHEETS.
106	FOR REMOVAL OF PERIMETER AND SLOPE SEDIMENT CONTROL DEVICES
107	WILL BE BY COUNT FOR EACH MOBILIZATION IN THE ACCEPTED ECIP AND ACCEPTABLY PERFORMED, AS WELL AS ADDITIONAL MOBILIZATIONS ORDERED OR APPROVED BY THE ENGINEER AND ACCEPTABLY PERFORMED.
108	THIS ITEM IS INCLUDED FOR A SUDDEN OCCURRENCE OF A SERIOUS AND URGENT NATURE WHICH IS BEYOND NORMAL MAINTENANCE OF EROSION CONTROL ITEMS. REFER TO SECTION 2602.

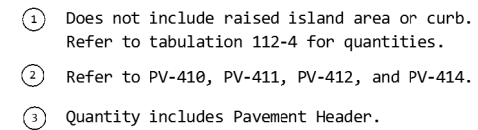
MODIFIED PER
ADDENDUM

Design For IA 38 FROM W JCT US 30 TO NCL STANWOOD NOTES AND TABULATIONS Station:.. Date:.. CITY OF STANWOOD, CEDAR COUNTY						
STP-038-2(37)--2C-16		STATE	FED. ROAD DIST. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		IOWA	.	2016	C.4	144



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100-25
04-21-15



Location				Mainline			Bid Items												Remarks	
Road Identification	Direction of Travel	Station to Station		Width	Length	Area	Hot Mix Asphalt Pavement						Binder			Special Backfill	Modified Subbase	Granular Subbase		Pavement Scarification
							Surface		Intermediate		Base		Surface	Intermediate	Base					
							FT	SY	TONS	SY	TONS	SY								
Preston St	E&W	100+00.00	101+55.00	VARIES	155.0	3434.8	44.361	381.6			42.930	381.6	2.662		2.576		161.7			DIV 4
Preston St	E&W	102+26.00	103+75.00	VARIES	149.0	3284.2	42.420	364.9			41.051	364.9	2.545		2.463		154.7			DIV 4
Center St	E&W	200+21.00	200+31.00	VARIES	10.0	240.9	3.116	26.8			3.015	26.8	0.187		0.181		11.3			DIV 1, 300,000 ESAL
Center St	E&W	201+04.00	201+09.00	VARIES	5.0	122.0	1.581	13.6			1.530	13.6	0.095		0.092		5.7			DIV 1, 300,000 ESAL
Broadway St	E&W	300+00.00	300+31.00	VARIES	31.0	757.8	9.788	84.2			9.473	84.2	0.587		0.568		35.0			DIV 1, 300,000 ESAL
Broadway St	E&W	301+02.00	301+15.00	VARIES	13.0	366.6	4.731	40.7			4.579	40.7	0.284		0.275		18.9			DIV 1, 300,000 ESAL
North St	E&W	401+46.00	401+61.00	VARIES	15.0	332.7	4.301	37.0			4.163	37.0	0.258		0.250		15.6			DIV 1, 300,000 ESAL
North St	E&W	402+37.00	402+47.00	VARIES	10.0	242.5	3.127	26.9			3.026	26.9	0.188		0.182		11.3			DIV 1, 300,000 ESAL
Farmers St	E&W	500+71.00	500+94.00	VARIES	23.0	505.0	6.522	56.1			6.311	56.1	0.391		0.379		24.2			DIV 1, 300,000 ESAL
Farmers St	E&W	510+35.00	510+52.00	VARIES	17.0	327.6	4.232	36.4			4.095	36.4	0.254		0.246		16.1			DIV 1, 300,000 ESAL
Ash St	N&S	12+94.00	12+99.00	VARIES	5.0	155.0	2.499	17.2	4.838	17.2	2.419	17.2	0.150	0.290	0.145		6.9			DIV 1, 10M ESAL, RR APPROACH
Ash St	N&S	13+23.00	13+28.00	VARIES	5.0	155.0	2.499	17.2	4.838	17.2	2.419	17.2	0.150	0.290	0.145		6.9			DIV 1, 10M ESAL, RR APPROACH
Broadway & Ash	N/A	16+09.00	16+42.00	VARIES	33.0	437.4	5.650	48.6			5.468	48.6	0.339		0.328		13.5			DIV 1, 300,000 ESAL
						300,000 ESAL		129.8				125.6		7.8		7.5		481.8		
						10M ESAL		5.0	9.7			4.8		0.3	0.6	0.3				

100-27
10-20-09

Road Identification	Begin Station	End Station	Proposed Posted Speed			Remarks
			35 or less	40 - 45	over 45	
IA 38 / ASH ST	+12.71	26+92.73	2680.02			URBAN SECTION - 25 MPH
IA 38 / ASH ST	26+92.73	39+78.32		1285.59		RURAL SECTION - 45 MPH

Design For
IA 38
FROM W JCT US 30 TO NCL STANWOOD
TABULATIONS

Station: _____ Date: _____
CITY OF STANWOOD, CEDAR COUNTY

DESIGNED BY: _____
DETAILED BY: _____

TRACED BY: _____
CHECKED BY: _____



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CITY OF STANWOOD, CEDAR COUNTY

PROJECT NUMBER

STP-038-2(37)--2C-16

STATE	FED. ROAD DIST. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
IOWA	.	2016	C.7	144

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STP-038-2(37)--2C-16

SANITARY OR STORM SEWER ABANDONMENT OR REMOVAL					110-14
* Not a bid item					04-16-13
Location/Description	Sanitary or Storm Sewer	Abandonment, Plug Only or Abandonment, Plug and Fill or Removal	Length of Pipe		Remarks
			≤ 36 inch diameter	> 36 inch diameter	
			LF	LF	
Sta 6+32, 15" RCP	Storm Sewer	Removal	30		Div. 3
Sta 6+77, 31' L, 15" RCP	Storm Sewer	Removal	77		Div. 3
Sta 6+90, 34' R, 12" CMP	Storm Sewer	Removal	14		Div. 3
Sta 7+13, 5' L, 24" RCP	Storm Sewer	Removal	92		Div. 3
Sta 7+43, 42' L, 36" RCP	Storm Sewer	Removal	8		Div. 3
Sta 7+46, 2' L, 18" RCP	Storm Sewer	Removal	71		Div. 3
Sta 7+63, 27' L, 18" RCP	Storm Sewer	Removal	42		Div. 3
Sta 7+80, 15' R, 15" RCP	Storm Sewer	Removal	30		Div. 3
Sta 15+72, 1' L, 10" CLAY	Storm Sewer	Removal	65		Div. 3
Sta 15+96, 24' L, 10" CLAY	Storm Sewer	Removal	42		Div. 3
Sta 21+08, 12" CMP	Storm Sewer	Removal	32		Div. 3
Sta 21+15, 46' L, 10" CLAY	Storm Sewer	Removal	56		Div. 3
Sta 21+19, 25' R, 8" CLAY	Storm Sewer	Removal	21		Div. 3
Sta 21+46, 15' R, 10" CLAY	Storm Sewer	Removal	56		Div. 3
Sta 26+61, 36' L, 12" CMP	Storm Sewer	Removal	27		Div. 3
Sta 2+44, 100' R, 8"	Sanitary Sewer	Removal	137		Div. 4
Sta 2+44, 100' R	Sanitary Sewer	Removal	10		Div. 4
Sta 2+71, 169' L, 8"	Sanitary Sewer	Removal	10		Div. 4
Sta 7+21, 90' R, 8"	Sanitary Sewer	Removal	186		Div. 4
Sta 7+21, 90' L, 8"	Sanitary Sewer	Removal	167		Div. 4
Sta 7+20, 169' L	Sanitary Sewer	Removal	20		Div. 4
Sta 10+88, 8"	Sanitary Sewer	Removal	336		Div. 4
Sta 10+88, 169' L	Sanitary Sewer	Removal	5		Div. 4
Sta 10+87, 167' R	Sanitary Sewer	Removal	10		Div. 4
Service Stub, 4"	Sanitary Sewer	Removal	30		Div. 4
Service Stub, 6"	Sanitary Sewer	Removal	30		Div. 4
Sta 2+40.77, 168.61' L to Sta 2+43.48, 24.82' R	Sanitary Sewer	Abandonment, Plug Only	5.0		Div. 4 - Near Lutheran Church
		Total Storm Removal	663		
		Total Sanitary Removal	941		

REMOVAL OF INTAKES AND UTILITY ACCESSES				110-15
				04-16-13
No.	Location/Description	Type	Remarks	
1	Sta 6+32, 16' L	Intakes	Div. 3	
2	Sta 6+32, 16' R	Intakes	Div. 3	
3	Sta 6+82, 32' R	Intakes	Div. 3	
4	Sta 7+43, 36' L	Intakes	Div. 3	
5	Sta 7+80, 16' L	Intakes	Div. 3	
6	Sta 7+80, 16' R	Intakes	Div. 3	
7	Sta 15+71, 24' L	Intakes	Div. 3	
8	Sta 16+15, 24' L	Intakes	Div. 3	
9	Sta 21+08, 16' L	Intakes	Div. 3	
10	Sta 21+08, 16' R	Intakes	Div. 3	
11	Sta 21+19, 25' R	Intakes	Div. 3	
12	Sta 21+64, 15' R	Intakes	Div. 3	
13	Sta 2+45.41, 164.83' R	Utilities	Div. 4	
14	Sta 7+19.93, 169.05' L	Utilities	Div. 4	
15	Sta 7+20.88, 2.20' L	Utilities	Div. 4	
16	Sta 10+86.97, 167.13' R	Utilities	Div. 4	
17	Sta 10+88.17, 169.02' L	Utilities	Div. 4	

MODIFIED PER
ADDENDUM

CLEARING AND GRUBBING																	110-17 04-15-14
Location		Work and Material Type	Trees, Stumps, and Logs and Down Timber Material Diameters										Estimated Quantities			Remarks	
Station to Station or Milepost to Milepost or Description	Direction of Travel		3"-6"	>6"-9"	>9"-12"	>12"-15"	>15"-18"	>18"-24"	>24"-30"	>30"-36"	>36"-42"	>42"-48"	Units	Area	Herbicide Application		
													Units	Acres	Each		
1+24, L		Stumps - Grubbing					1						8.8			DIV 4	
1+50, L		Stumps - Grubbing						1					13.6			DIV 4	
1+87, L		Stumps - Grubbing						1					13.6			DIV 4	
2+15, R		Stumps - Grubbing							1				17.6			DIV 1	
2+57, R		Stumps - Grubbing										1	80.0			DIV 1	
2+67, L		Trees - Clearing and Grubbing			1								6.7			DIV 4-FOR SANITARY SEWER	
2+73, L		Trees - Clearing and Grubbing			1								6.7			DIV 4-FOR SANITARY SEWER	
2+78, L		Trees - Clearing and Grubbing					1						13.5			DIV 4-FOR SANITARY SEWER	
2+84, L		Trees - Clearing and Grubbing					1						13.5			DIV 4-FOR SANITARY SEWER	
3+00, L		Stumps - Grubbing									1		50.0			DIV 4	
4+24, L		Stumps - Grubbing							1				13.6			DIV 4	
4+48, L		Stumps - Grubbing								1			17.6			DIV 4	
4+84, L		Stumps - Grubbing									1		28.0			DIV 4	
5+21, L		Stumps - Grubbing			1								4.8			DIV 4	
5+54, L		Stumps - Grubbing										1	17.6			DIV 4	
5+95, L		Stumps - Grubbing										1	17.6			DIV 4	
7+47, L		Trees - Clearing and Grubbing									1		50.0			DIV 4	
7+97, L		Stumps - Grubbing							1				13.6			DIV 4	
10+42, L		Stumps - Grubbing					1						8.8			DIV 4	
10+75, L		Stumps - Grubbing	1										1.1			DIV 4	
11+52, R		Stumps - Grubbing								1			17.6			DIV 1	
11+94, L		Stumps - Grubbing	1										1.1			DIV 4	
13+78, L		Stumps - Grubbing						1					8.8			DIV 1	
18+52, R		Stumps - Grubbing				1							6.6			DIV 1	
18+73, R		Stumps - Grubbing					1						8.8			DIV 1	
19+02, R		Stumps - Grubbing							1				13.6			DIV 1	
19+35, R		Stumps - Grubbing							1				13.6			DIV 1	
19+37, L		Stumps - Grubbing			1								4.8			DIV 1	
19+62, L		Stumps - Grubbing			1								4.8			DIV 1	
20+11, R		Stumps - Grubbing			1								4.8			DIV 1	
20+27, R		Stumps - Grubbing			1								4.8			DIV 1	
20+38, L		Stumps - Grubbing	1										1.1			DIV 1	
20+61, R		Stumps - Grubbing			1								4.8			DIV 1	
20+96, L		Stumps - Grubbing	1										1.1			DIV 4	
23+72, R		Trees - Clearing and Grubbing				1							9.4			DIV 3	
24+87, R		Trees - Clearing and Grubbing	1										1.6			DIV 3	
25+15, R		Trees - Clearing and Grubbing	1										1.6			DIV 3	
25+45, R		Trees - Clearing and Grubbing	1										1.6			DIV 3	
													507.2				

DESIGNED BY: _____	TRACED BY: _____	iiw	563.556.2464 ♦ 800.556.4491 IIW, P.C. ♦ www.iiwengr.com	CITY OF STANWOOD, CEDAR COUNTY	PROJECT NUMBER
DETAILED BY: _____	CHECKED BY: _____				

P:\14\183\DRAWINGS\CIVIL\14183_ZZ_M-TAB.DWG 3/15/2016 10:54:23 AM JERI M. VONDERA

STP-038-2(37)--2C-16

① Diameter or equivalent diameter										104-5B 04-21-15										
* Bid Item										STORM SEWER										
** For SW-545																				
INTAKES AND UTILITY ACCESSES							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 (Except at DR-201 and SW-512).													
No.	Location Station and Offset	*Type or Standard Road Plan	Form	Bottom	Extension	Notes	Line Number	Intake/ Utility Access No.		Class 'D'	Pipe	Bid* Length	Design Length	Slope %	Connected Pipe Joint (DR-121)	Flow Lines			Pipe Profile Sheet No.	Notes
			Grade	Well	Length**			IN	FT		FT					Inlet Elevation	Outlet Elevation	Other Elevation		
			Elev.	Elev.	FT															
IN-100	6+38.06, 15.5' L	SW-509	834.21	831.49			P-106	IN-100	IN-101	2000	15	37	31.0	0.3	1	831.49	831.4		M.3	
IN-101	6+38.06, 15.5' R	SW-509	834.21	831.31			P-104	IN-101	JB-102	2000	18	60	54.4	0.3	1	831.31	831.15		M.3	
JB-102	6+98.1, 12.81' R	SW 402, 48"X48"	834.62	831.1			P-103	JB-102	JB-104	2000	24	47	40.7	0.3	1	831.1	830.98		M.3	
JB-104	7+42.35, 12.59' R	SW-402, 60"X60"	834.85	830.93			P-101	JB-104	APRON106	2000	30	55	52.4	0.3	3	830.93	830.75		M.3	RCAP 37"X23"X52.4'
APRON106	7+42.56, 49.33' L	DR-202, 37"X23"																		
IN-103	6+99.60, 30.26' R	SW-512	834.5	831.5			P-105	IN-103	JB-102	2000	15	19	16.0	0.625	1	831.5	831.4		M.3	
IN-108	7+41.75, 38.23' R	SW-512	834	831.5			P-102	IN-108	JB-104	2000	18	30	24.0	0.833	1	831.5	831.3		M.3	
IN-106	7+98.37, 15.5' L	SW-509	834.54	831.44			P-108	IN-106	IN-105	2000	18	37	31.0	0.496	1	831.44	831.29		M.3	
IN-105	7+98.37, 15.5' R	SW-509	834.54	831.19			P-107	IN-105	JB-104	2000	18	56	50.4	0.425	1	831.19	830.98		M.3	
IN-200	15+55.43, 15.5' L	SW-507	842.85	840.37			P-202	IN-200	IN-201	2000	18	37	31.0	0.3	1	840.37	840.28		M.3	RCAP 22"X14"X31'
IN-201	15+55.43, 15.5' R	SW-507	842.85	840.18			P-201	IN-201	IN-202	2000	18	34	31.1	0.325	1	840.18	840.07		M.3	
IN-202	15+72.91, 43.59' R	SW-512	843.68	840.07																
IN-300	21+00, 15.50' L	SW-508	837.31	834.47			P-306	IN-300	IN-301	2000	15	37	31.0	0.5	1	834.47	834.32		M.4	
IN-301	21+00, 15.50' R	SW-509	837.31	834.07			P-304	IN-301	IN-305	2000	18	36	30.0	0.478	1	834.07	833.92		M.4	
IN-305	21+25.25, 38.08' R	SW-508 MOD	837.8	833.43			P-305	IN-305	IN-304	2000	24	59	52.6	0.5	1	833.43	833.16		M.4	
IN-304	21+75.0, 15.50' R	SW-507	838.04	833.06			P-307	IN-304	IN-400	2000	24	441	434.8	0.5	1	833.06	830.89		M.4	
IN-400	26+13.41, 15.50' R	SW-507	835.02	830.79			P-402	IN-400	IN-401	2000	24	37	31.3	0.5	1	830.79	830.63		M.5	
IN-401	26+13.41, 15.50' L	SW-510 MOD	835.02	830.31			P-401	IN-401	APRON402	2000	36	101	97.9	0.3	3	830.31	830.01		M.5	44"X27"X98'
APRON402	27+20, 30' L	DR-202																		
IN-303	21+75.0, 15.50' L	SW-507	838.04	834.07			P-308	IN-303	IN-304	2000	15	37	31.0	0.5	1	834.07	833.91		M.4	
		Total:								Total:										
		DR-202	1							2000	15	130								
		DR-202, 37"X23"	1							2000	18	290								
		SW 402, 48"X48"	1							2000	24	583								
		SW-402, 60"X60"	1							2000	30	55								
		SW-507	5							2000	36	101								
		SW-508	1																	
		SW-508 MOD	1																	
		SW-509	5																	
		SW-510 MOD	1																	
		SW-512	3																	

MODIFIED PER ADDENDUM

Design For
IA 38
FROM W JCT US 30 TO NCL STANWOOD
TABULATIONS
Station:.. Date:..
CITY OF STANWOOD, CEDAR COUNTY

DESIGNED BY: _____
DETAILED BY: _____

TRACED BY: _____
CHECKED BY: _____



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CITY OF STANWOOD, CEDAR COUNTY

PROJECT NUMBER

STP-038-2(37)--2C-16

STATE
IOWA

FED. ROAD
DIST. NO. -

FISCAL
YEAR 2016

SHEET
NO. M.1

TOTAL
SHEETS 144