

A d d e n d u m

Iowa Department of Transportation
Office of Contracts

Date of Letting: April, 19, 2016
Date of Addendum: March 30, 2016

B.O.	Proposal ID	Proposal Work Type	County	Project Number	Addendum
004	52-3715-652	BRIDGE REPLACEMENT - OTHER	JOHNSON	HDP-3715(652)--71-52	19APR004.A01

Make the following changes to the PROPOSAL SCHEDULE OF PRICES:

Change Proposal Line No. 0440 2432-0000100 MECHANICALLY STABILIZED EARTH
RETAINING WALL;
From: 34,668.000 SF
To: 23,750.000 SF

Add Proposal Line No. 2311 2599-9999014 TEMPORARY MECHANICALLY STABILIZED
EARTH RETAINING WALL 10,918.000 SF

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

Make the following changes to the PROPOSAL SPECIAL PROVISIONS LIST & TEXT:

Add specification 005.1113
*** ELECTRONIC DOCUMENT STORAGE ***
Section 1113 shall apply to this contract.

Replace plan sheets C.1, C.2, C.3, C.4, C.5, C.6, C.14, M.9, & N.1 with the attached:

Changes shown in yellow highlight.

PROJECT DESCRIPTION

100-1D
10-18-05

This project involves roadway embankment, roadway paving, bridge construction, MSE walls, sanitary sewer, water main, storm sewer, box culverts, lighting, traffic signals, trail construction, landscaping and entrance reconstruction in the City of Iowa City. The limits are Dubuque St from Brown St to Foster Rd and Park Rd from N.Riverside Dr to Dubuque St.

**ESTIMATED PROJECT QUANTITIES
(1 DIVISION PROJECT)**

100-1A
07-15-97

Item No.	Item Code	Item	Unit	Total	As Built Qty.
1	2101-0850001	CLEARING AND GRUBBING	ACRE	6.6	
2	2102-0425071	SPECIAL BACKFILL	CY	2237.8	
3	2102-2625001	EMBANKMENT-IN-PLACE, CONTRACTOR FURNISHED	CY	138020	
4	2102-2710070	EXCAVATION, CL 10, ROADWAY AND BORROW	CY	23956	
5	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	13916	
6	2107-0875100	COMPACTION WITH MOISTURE CONTROL	CY	156451	
7	2107-3825025	GRANULAR MATERIAL FOR BLANKET AND SUBDRAIN	CY	827.4	
8	2115-0100000	MODIFIED SUBBASE	CY	13405	
9	2123-7450020	SHOULDER FINISHING, EARTH	STA	240	
10	2213-7100400	RELOCATION OF MAIL BOXES	EACH	8	
11	2301-1033090	STANDARD OR SLIP FORM PCC PAVEMENT, CLASS C, CLASS 3 DURABILITY, 9 IN.	SY	14901.6	
12	2301-1033100	STANDARD OR SLIP FORM PCC PAVEMENT, CLASS C, CLASS 3 DURABILITY, 10 IN.	SY	27749	
13	2301-4875006	MEDIAN, PCC, 6 IN.	SY	93.5	
14	2301-6911722	PORTLAND CEMENT CONCRETE PAVEMENT SAMPLES	LS	1	
15	2301-7000110	PAYMENT ADJUSTMENT FOR PCC PAVEMENT THICKNESS	EACH	1	
16	2316-0000110	PAYMENT ADJUSTMENT FOR PCC PAVEMENT SMOOTHNESS	EACH	1	
17	2304-0100000	DETOUR PAVEMENT	SY	13902	
18	2304-0101000	TEMPORARY PAVEMENT	SY	1695	
19	2401-6745356	REMOVAL OF CONCRETE FOOTINGS OF LIGHT POLES	EACH	82	
20	2401-6745650	REMOVAL OF EXISTING STRUCTURES	LS	1	
21	2401-6745765	REMOVAL OF LIGHT POLES	EACH	86	
22	2402-0425030	GRANULAR BACKFILL	CY	4639	
23	2402-0425040	FLOODED BACKFILL	CY	1754.1	
24	2402-2720000	EXCAVATION, CLASS 20	CY	4313.2	
25	2403-0100020	STRUCTURAL CONCRETE (RCB CULVERT)	CY	115	
26	2403-0900001	STRUCTURAL CONCRETE, CLASS C	CY	111.9	
27	2404-7775000	REINFORCING STEEL	LB	28233	
28	2414-6444100	STEEL PIPE PEDESTRIAN HAND RAILING	LF	121	
29	2414-6625502	STRUCTURAL STEEL RAILING, TRAFFIC	LF	1836	
30	2414-6772020	STEEL FENCE, WELDED WIRE MESH	LF	72	
31	2415-2110604	PRECAST CONCRETE BOX CULVERT, 6 FT. X 4 FT.	LF	337	
32	2415-2110805	PRECAST CONCRETE BOX CULVERT, 8 FT. X 5 FT.	LF	522	
33	2415-2111004	PRECAST CONCRETE BOX CULVERT, 10 FT. X 4 FT.	LF	323.5	
34	2415-2111008	PRECAST CONCRETE BOX CULVERT, 10 FT. X 8 FT.	LF	12	
35	2415-2200604	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 6 FT. X 4 FT.	EACH	4	
36	2415-2200805	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 8 FT. X 5 FT.	EACH	8	
37	2416-0100015	APRON, CONCRETE, 15 IN. DIA.	EACH	2	
38	2416-0100018	APRON, CONCRETE, 18 IN. DIA.	EACH	3	
39	2416-0100027	APRON, CONCRETE, 27 IN. DIA.	EACH	1	
40	2416-0100036	APRON, CONCRETE, 36 IN. DIA.	EACH	2	
41	2416-0100048	APRON, CONCRETE, 48 IN. DIA.	EACH	1	
42	2416-1160015	CULVERT, CONCRETE ENTRANCE PIPE, 15 IN. DIA.	LF	38	
43	2416-1200218	CULVERT, LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 18 IN	LF	72	
44	2432-0000100	MECHANICALLY STABILIZED EARTH RETAINING WALL	SF	23750	
45	2435-0130148	MANHOLE, SANITARY SEWER, SW-301, 48 IN.	EACH	11	
46	2435-0140148	MANHOLE, STORM SEWER, SW-401, 48 IN.	EACH	8	
47	2435-0140148	MANHOLE, STORM SEWER, SW-401, 48 IN., TYPE 3B CASTING	EACH	3	
48	2435-0140160	MANHOLE, STORM SEWER, SW-401, 60 IN.	EACH	4	
49	2435-0140160	MANHOLE, STORM SEWER, SW-401, 60 IN., TYPE 3B CASTING	EACH	6	
50	2435-0140172	MANHOLE, STORM SEWER, SW-401, 72 IN.	EACH	3	
51	2435-0140172	MANHOLE, STORM SEWER, SW-401, 72 IN., TYPE 3B CASTING	EACH	3	
52	2435-0140184	MANHOLE, STORM SEWER, SW-401, 84 IN.	EACH	1	
53	2435-0140200	MANHOLE, STORM SEWER, SW-402, 4' X 4'	EACH	2	
54	2435-0140300	MANHOLE, STORM SEWER, SW-403, 4' X 4'	EACH	1	
55	2435-0140410	MANHOLE, STORM SEWER, SW-404 MODIFIED	EACH	1	
56	2435-0250100	INTAKE, SW-501	EACH	5	
57	2435-0250500	INTAKE, SW-505	EACH	6	
58	2435-0250700	INTAKE, SW-507	EACH	15	
59	2435-0250800	INTAKE, SW-508	EACH	1	
60	2435-0250900	INTAKE, SW-509	EACH	18	
61	2435-0251000	INTAKE, SW-510	EACH	3	
62	2435-0251010	INTAKE, SW-510 MODIFIED	EACH	7	
63	2435-0251224	INTAKE, SW-512, 24 IN., TYPE 3B CASTING	EACH	8	
64	2435-0251300	INTAKE, SW-513	EACH	5	
65	2435-0254100	INTAKE, SW-541	EACH	30	
66	2435-0254200	INTAKE EXTENSION UNIT, SW-542	EACH	21	
67	2435-0254500	INTAKE, SW-545	EACH	10	
68	2435-0400000	DROP CONNECTION, SW-307	EACH	15	
69	2435-0600010	MANHOLE ADJUSTMENT, MINOR	EACH	4	
70	2435-0600020	MANHOLE ADJUSTMENT, MAJOR	EACH	3	
71	2435-0700010	CONNECTION TO EXISTING MANHOLE	EACH	2	
72	2501-0201253	PILES, STEEL, HP 12 X 53	LF	560	
73	2501-8400172	TEMPORARY SHORING	LS	1	
74	2502-2308110	CONTINUOUS TRENCH DRAIN	LF	26	

BRIDGE QUANTITIES

Note: Additional quantities for bridge construction are shown on Sheet V.55.

100-1A
07-15-97

**ESTIMATED PROJECT QUANTITIES
(1 DIVISION PROJECT)**

Item No.	Item Code	Item	Unit	Total	As Built Qty.
75	2502-8212036	SUBDRAIN, LONGITUDINAL, (SHOULDER) 6 IN.	LF	18607	
76	2502-8215121	SUBDRAIN, CORRUGATED METAL PIPE, 21 IN. DIA.	LF	11	
77	2502-8221303	SUBDRAIN OUTLET, DR-303	EACH	134	
78	2503-0114218	STORM SEWER GRAVITY MAIN, TRENCHED, RCP 2000D, 18 IN.	LF	1068	
79	2503-0114224	STORM SEWER GRAVITY MAIN, TRENCHED, RCP 2000D, 24 IN.	LF	438	
80	2503-0114236	STORM SEWER GRAVITY MAIN, TRENCHED, RCP 2000D, 36 IN.	LF	723	
81	2503-0114415	STORM SEWER GRAVITY MAIN, TRENCHED, RCP 3000D, 15 IN.	LF	3659	
82	2503-0114421	STORM SEWER GRAVITY MAIN, TRENCHED, RCP 3000D, 21 IN.	LF	509	
83	2503-0114427	STORM SEWER GRAVITY MAIN, TRENCHED, RCP 3000D, 27 IN.	LF	714	
84	2503-0114430	STORM SEWER GRAVITY MAIN, TRENCHED, RCP 3000D, 30 IN.	LF	1481	
85	2503-0114436	STORM SEWER GRAVITY MAIN, TRENCHED, RCP 3000D, 36 IN.	LF	40	
86	2503-0114448	STORM SEWER GRAVITY MAIN, TRENCHED, RCP 3000D, 48 IN.	LF	130	
87	2503-0200036	REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN. DIAMETER	LF	3618	
88	2503-0200136	REMOVE STORM SEWER PIPE GREATER THAN 36 IN. DIAMETER	LF	257	
89	2503-0200341	STORM SEWER ABANDONMENT, FILL AND PLUG, LESS THAN OR EQUAL TO 36 IN. DIA	LF	206	
90	2504-0112424	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 24 IN.	LF	25	
91	2504-0112442	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 42 IN.	LF	629	
92	2504-0112448	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 48 IN.	LF	2468	
93	2504-0112648	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 48 IN.	LF	615	
94	2504-0114008	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 8 IN.	LF	1795	
95	2504-0114010	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 10 IN.	LF	490	
96	2504-0114012	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 12 IN.	LF	31	
97	2504-0116008	SANITARY SEWER GRAVITY MAIN, TRENCHED, DIP, 8 IN.	LF	314	
98	2504-0116010	SANITARY SEWER GRAVITY MAIN, TRENCHED, DIP, 10 IN.	LF	117	
99	2504-0116048	SANITARY SEWER GRAVITY MAIN, TRENCHED, DIP, 48 IN.	LF	269	
100	2504-0200406	SANITARY SEWER SERVICE STUB, PVC, 6 IN.	LF	248	
101	2504-0200806	SANITARY SEWER SERVICE STUB WITH RISER, PVC, 6 IN.	LF	70	
102	2504-0220000	SANITARY SEWER SERVICE RELOCATION	EACH	5	
103	2504-0240036	REMOVE SANITARY SEWER PIPE LESS THAN OR EQUAL TO 36 IN.	LF	1324	
104	2504-0240236	SAN SEWER ABANDONMENT, FILL AND PLUG, LESS THAN OR EQUAL TO 36 IN. DIA.	LF	8506	
105	2505-4008120	REMOVAL OF STEEL BEAM GUARDRAIL	LF	226	
106	2505-4021020	STEEL BEAM GUARDRAIL END ANCHOR, W-BEAM	EACH	1	
107	2506-4984000	FLOWABLE MORTAR	CY	5.8	
108	2507-6799000	BANK SHAPING	LS	1	
109	2507-6800000	MATERIAL FOR FILTER BLANKET	TON	1476	
110	2507-6800021	REVTMENT, CLASS B	TON	40487.7	
111	2507-6800061	REVTMENT, CLASS E	TON	537.9	
112	2510-6745850	REMOVAL OF PAVEMENT	SY	59559.1	
113	2510-6750600	REMOVAL OF INTAKE AND UTILITY ACCESS	EACH	110	
114	2511-0302800	RECREATIONAL TRAIL, PCC, 8 IN.	SY	5025.4	
115	2511-0310100	SPECIAL COMPACTION OF SUBGRADE FOR RECREATIONAL TRAIL	STA	6.42	
116	2511-6745900	REMOVAL OF SIDEWALK	SY	8871.6	
117	2511-7526006	SIDEWALK, PCC, 6 IN.	SY	6739.5	
118	2511-7528101	DETECTABLE WARNING	SF	974	
119	2512-1750006	CURB AND GUTTER, P.C. CONCRETE, AS PER PLAN	LF	330	
120	2513-0001081	CONCRETE BARRIER, TAPERED END, BA-108	EACH	2	
121	2515-2475007	DRIVEWAY, PCC, 7 IN.	SY	2722.4	
122	2515-2475009	DRIVEWAY, PCC, 9 IN.	SY	1217.7	
123	2515-6745600	REMOVAL OF PAVED DRIVEWAY	SY	3305.6	
124	2516-8625000	COMBINED CONCRETE SIDEWALK AND RETAINING WALL	CY	61	
125	2518-6910000	SAFETY CLOSURE	EACH	46	
126	2519-3300600	FENCE, SAFETY	LF	408	
127	2519-3760000	ENTRANCE BOLLARD	EACH	14	
128	2523-0000200	ELECTRICAL CIRCUITS	LF	15308	
129	2523-0000310	HANDHOLES AND JUNCTION BOXES	EACH	27	
130	2523-0000400	CONTROL CABINET	EACH	2	
131	2523-0000500	UNDERDECK LIGHTING	EACH	2	
132	2523-6765009	REMOVE AND REINSTALL LIGHT POLE AND LUMINAIRE	EACH	1	
133	2525-0000100	TRAFFIC SIGNALIZATION	LS	1	
134	2525-0000120	REMOVAL OF TRAFFIC SIGNALIZATION	LS	1	
135	2526-8285000	CONSTRUCTION SURVEY	LS	1	
136	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	STA	360.39	
137	2527-9263131	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS	STA	572.16	
138	2527-9263137	PAINTED SYMBOL AND LEGEND, WATERBORNE OR SOLVENT BASED	EACH	25	
139	2527-9263600	REMOVABLE, NONREFLECTIVE, PREFORMED TAPE	STA	39.21	
140	2528-8400048	TEMPORARY BARRIER RAIL, CONCRETE	LF	8978	
141	2528-8400157	TEMPORARY FLOODLIGHTING LUMINAIRE	EACH	2	
142	2528-8400256	TEMPORARY TRAFFIC SIGNALS	EACH	4	
143	2528-8445110	TRAFFIC CONTROL	LS	1	
144	2528-8445113	FLAGGERS	EACH	SEE PROPOSAL	
145	2533-4980005	MOBILIZATION	LS	1	
146	2552-0000140	ROCK EXCAVATION	CY	4000	
147	2552-0000230	SPECIAL PIPE EMBEDMENT OR ENCASEMENT	LF	28	
148	2552-0000300	TRENCH COMPACTION TESTING	LS	1	
149	2554-0112006	WATER MAIN, TRENCHED, DIP, 6 IN.	LF	10	
150	2554-0112008	WATER MAIN, TRENCHED, DIP, 8 IN.	LF	991	

**ESTIMATED PROJECT QUANTITIES
(1 DIVISION PROJECT)**

Item No.	Item Code	Item	Unit	Total	As Built Qty.
151	2554-0112012	WATER MAIN, TRENCHED, DIP, 12 IN.	LF	2020	
152	2554-0112016	WATER MAIN, TRENCHED, DIP, 16 IN.	LF	4217	
153	2554-0132008	WATER MAIN WITH CASING PIPE, TRENCHED, DIP, 8 IN.	LF	16	
154	2554-0132012	WATER MAIN WITH CASING PIPE, TRENCHED, DIP, 12 IN.	LF	108	
155	2554-0132016	WATER MAIN WITH CASING PIPE, TRENCHED, DIP, 16 IN.	LF	54	
156	2554-0202200	FITTINGS BY COUNT, DUCTILE IRON	EACH	119	
157	2554-0202400	FITTINGS BY COUNT, POLYVINYL CHLORIDE (PVC)	EACH	1	
158	2554-0204000	WATER SERVICE STUB, PVC, 4 IN.	EACH	1	
159	2554-0204000	WATER SERVICE STUB, PVC, 6 IN.	EACH	1	
160	2554-0204000	WATER SERVICE STUB, PVC, 8 IN.	EACH	1	
161	2554-0204120	WATER SERVICE STUB, COPPER, 2 IN.	EACH	2	
162	2554-0207000	GATE VALVE, DIP, 2 IN.	EACH	2	
163	2554-0207000	GATE VALVE, DIP, 16 IN.	EACH	33	
164	2554-0207004	GATE VALVE, DIP, 4 IN.	EACH	1	
165	2554-0207006	GATE VALVE, DIP, 6 IN.	EACH	1	
166	2554-0207008	GATE VALVE, DIP, 8 IN.	EACH	19	
167	2554-0207012	GATE VALVE, DIP, 12 IN.	EACH	21	
168	2554-0210201	FIRE HYDRANT ASSEMBLY, WM-201	EACH	23	
169	2554-0212020	VALVE BOX EXTENSION	EACH	15	
170	2554-0212030	VALVE BOX REPLACEMENT	EACH	5	
171	2554-0214000	FIRE HYDRANT ADJUSTMENT	EACH	3	
172	2599-9999001	NATIVE TURF SEED MIX	ACRE	5.04	
173	2599-9999003	STONE BACKFILL	CY	11929	
174	2599-9999005	ROADWAY LIGHTING POLES	EACH	56	
175	2599-9999005	TRAIL/SIDEWALK LIGHTING POLES	EACH	23	
176	2599-9999005	BRIDGE MOUNTED LIGHTING POLES	EACH	10	
177	2599-9999005	LUMINAIRE ON TRAFFIC SIGNAL STRUCTURE	EACH	6	
178	2599-9999005	DECORATIVE BENCH	EACH	5	
179	2599-9999005	IN-LINE ELASTOMERIC CHECK VALVE	EACH	2	
180	2599-9999005	COMBINATION AIR VALVE ASSEMBLY, 1 IN.	EACH	1	
181	2599-9999005	COMBINATION AIR VALVE VAULT	EACH	1	
182	2599-9999005	CONNECTION TO EXISTING	EACH	15	
183	2599-9999005	REMOVE EXISTING HYDRANTS	EACH	11	
184	2599-9999005	FLEXIBLE EXPANSION JOINT, 12 IN.	EACH	2	
185	2599-9999005	MANHOLE, SANITARY SEWER, SW-301 MODIFIED, 48 IN.	EACH	19	
186	2599-9999005	MANHOLE, SANITARY SEWER, SW-301 MODIFIED, 72 IN.	EACH	1	
187	2599-9999005	MANHOLE, SANITARY SEWER, SW-301 MODIFIED, 84 IN.	EACH	16	
188	2599-9999005	MANHOLE, SANITARY SEWER, SW-303 MODIFIED, 48 IN.	EACH	1	
189	2599-9999005	MANHOLE, SANITARY SEWER, SW-303 MODIFIED, 72 IN.	EACH	1	
190	2599-9999005	MANHOLE, SANITARY SEWER, SW-303 MODIFIED, 144 IN.	EACH	2	
191	2599-9999005	HANDHOLE, 30 IN. X 48 IN.	EACH	4	
192	2599-9999005	HANDHOLE, 48 IN. X 48 IN. X 51 IN.	EACH	13	
193	2599-9999009	CONDUIT, HDPE, 2 IN.	LF	59920	
194	2599-9999009	CONDUIT, HDPE, 4 IN.	LF	240	
195	2599-9999009	CONDUIT ON BRIDGE, GALVANIZED RIGID STEEL, 2 IN.	LF	1760	
196	2599-9999009	CONDUIT ON BRIDGE, GALVANIZED RIGID STEEL, 4 IN.	LF	1320	
197	2599-9999009	PULL TAPE FOR CONDUIT	LF	63240	
198	2599-9999009	TRACER WIRE FOR HDPE CONDUIT	LF	12130	
199	2599-9999009	WATER MAIN, PREINSULATED, DIP, 8 IN.	LF	25	
200	2599-9999009	WATER MAIN, PREINSULATED, DIP, 16 IN.	LF	55	
201	2599-9999009	WATER MAIN ON BRIDGE, PREINSULATED, DIP, 12 IN.	LF	463	
202	2599-9999009	FILL EXISTING WATER PIPE	LF	11555	
203	2599-9999009	REMOVE EXISTING WATER PIPE	LF	913	
204	2599-9999009	PEDESTRIAN RAILING WITH CURB	LF	179	
205	2599-9999010	CATHODIC PROTECTION	LS	1	
206	2599-9999010	SEAT WALL	LS	1	
207	2599-9999010	INTERMEDIATE FOUNDATION IMPROVMENTS	LS	1	
208	2599-9999010	INTERMEDIATE FOUNDATION IMPROVMENTS VERIFICATION AND TESTING	LS	1	
209	2599-9999010	AESTHETIC LIGHTING	LS	1	
210	2599-9999014	TEMPORARY MECHANICALLY STABILIZED EARTH RETAINING WALL	SP	10918	
211	2599-9999018	MOMENT SLAB	SY	2548	
212	2599-9999018	COLORLED/STAMPED SIDEWALK, PCC, 6 IN.	SY	257.5	
213	2601-2633100	MOWING	ACRE	16.07	
214	2601-2634450	COMPOST	ACRE	12.81	
215	2601-2636015	NATIVE GRASS SEEDING	ACRE	7.66	
216	2601-2636018	WETLAND GRASS SEEDING	ACRE	0.11	
217	2601-2636044	SEEDING AND FERTILIZING (URBAN)	ACRE	12.81	
218	2601-2639010	SODDING	SQ	1901	
219	2601-2640350	SPECIAL DITCH CONTROL, WOOD EXCELSIOR MAT	SQ	292.28	
220	2601-2642120	STABILIZING CROP - SEEDING AND FERTILIZING (URBAN)	ACRE	6.14	
221	2602-0000020	SILT FENCE	LF	7180	
222	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	7180	
223	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	1795	
224	2602-0000306	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 6 IN. DIA.	LF	820	
225	2602-0000309	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 9 IN. DIA.	LF	1025	
226	2602-0010010	MOBILIZATION, EROSION CONTROL	EACH	20	
227	2610-0000600	TILLAGE	LS	1	
228	2610-0000180	FLOWERS, AS PER PLAN	LS	1	
229	2611-0000100	SHRUBS, FURNISHED AND INSTALLED (WITH WARRANTY)	EACH	267	
230	2611-0000200	TREES, FURNISHED AND INSTALLED (WITH WARRANTY)	EACH	269	
231	2612-0000500	ROADSIDE SPRAYING	ACRE	12.81	
232	2612-0000520	ROADSIDE SPRAY FOR WEED CONTROL	ACRE	12.81	

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
1	2101-0850001	CLEARING AND GRUBBING The City of Iowa City will fell all trees within the project limits prior to construction. Contractor to perform grubbing operations, including removal of felled trees, after March 30th, 2016. Refer to the K Sheets for locations.
2	2102-0425071	SPECIAL BACKFILL Refer to B Sheet Typical and Tab 100-24 in the C Sheets for locations and details. Includes 2,308 CY for detour pavement. Refer to Tab 102-14 (MOD) in the C Sheets.
3	2102-2625001	EMBANKMENT-IN-PLACE, CONTRACTOR FURNISHED Refer to Tab 107-28 in the T Sheets. Shrinkage will not be included in Embankment-in-Place quantity. Borrow material is available at no cost, at the Contractor's option, at the location noted below: 3900 Hebl Avenue SW Iowa City, IA 52246 (319) 356-5185
4	2102-2710070	EXCAVATION, CL 10, ROADWAY AND BORROW Includes 23,956 cu. yds. of suitable material to be used in the roadway fill. Refer to Tab 107-28 in the T Sheets. Overhaul will not be measured or paid for, but shall be considered incidental to roadway excavation on this project.
5	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD Refer to Tab 103-4 in the C Sheets.
6	2107-0875100	COMPACTION WITH MOISTURE CONTROL Refer to Tab 103-6 in the C Sheets. Cubic yards shown on the contract documents as determined by the template fill volume. Shrinkage will not be included in the moisture control quantity.
7	2107-3825025	GRANULAR MATERIAL FOR BLANKET AND SUBDRAIN Refer to Tab 104-5C in the C Sheets. Refer to V Sheets for additional details. Includes all material, equipment, and labor required to place and grade granular blanket as shown on culvert standard sheets. Quantity summary includes 569.4 CY for culvert work.
8	2115-0100000	MODIFIED SUBBASE Refer to B Sheet Typical and Tab 100-24 in the C Sheets for locations and details.
9	2123-7450020	SHOULDER FINISHING, EARTH Refer to Tab 107-28 in the T Sheets. The quantity of Class 10 for this item is included in the quantity for Class 10 bid item. No payment for overhaul allowed for this material.
10	2213-7100400	RELOCATION OF MAIL BOXES Contractor shall relocate existing mailboxes within the project limits, as necessary, to accommodate postal delivery. Temporary mailbox locations shall be coordinated with the City and U.S. Postal Service. Contractor shall return mailboxes to the original locations following construction. Damaged posts and/or boxes shall be replaced by the Contractor at no cost to the Owner.
11	2301-1033090	STANDARD OR SLIP FORM PCC PAVEMENT, CLASS C, CLASS 3 DURABILITY, 9 IN.
12	2301-1033100	STANDARD OR SLIP FORM PCC PAVEMENT, CLASS C, CLASS 3 DURABILITY, 10 IN. Refer to Tab 100-24 in the C Sheets. Includes certified plant inspection in accordance with Section 2521 of the Standard Specifications. Smoothness Requirements. Concrete mix design shall be a C-SUD, in accordance with IM 529. Combined aggregate grading shall fall within Zone II in accordance with IM 532.
13	2301-4875006	MEDIAN, PCC, 6 IN. Refer to Tab 112-4 in the C Sheets. Includes certified plant inspection in accordance with Section 2521 of the Standard Specifications.
14	2301-6911722	PORTLAND CEMENT CONCRETE PAVEMENT SAMPLES
15	2301-7000110	PAYMENT ADJUSTMENT FOR PCC PAVEMENT THICKNESS
16	2316-0000110	PAYMENT ADJUSTMENT FOR PCC PAVEMENT SMOOTHNESS
17	2304-0100000	DETOUR PAVEMENT Item is for temporary detour pavements as shown on the F and J Sheets. Refer to Tab 102-14 (MOD) in the C Sheets. This item includes providing necessary provisions to maintain drainage during construction, including but not limited to storm sewer, manholes, intakes, outlets, culverts, ditching, and subdrain used for temporary drainage, as well as the removal of these facilities.
18	2304-0101000	TEMPORARY PAVEMENT Item is for Temporary Pavement used for pedestrians during construction. Refer to J and V Sheets for details. Temporary pedestrian facilities shall comply with ADA requirements as noted in Chapter 12 of the Iowa DOT Design Manual. Description: Furnish, place and remove temporary pavement used to carry pedestrians during construction. Materials: Use HMA 1,000,000 ESAL surface or intermediate course, 1/2 or 3/4 inch, with PG 64-22 asphalt binder. Construction: A. HMA Paving.

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
		1. Meet the requirements of Section 2303
		B. Pavement Removal Remove temporary pavement and replace at no additional cost to the Contracting Authority, all concrete or asphalt adjacent to the temporary pavement damaged during operation of placement and removal of temporary pavement. Method of Measurement: Temporary Pavement placed, in square yards will be the quantity shown in the contract documents. Basis of Payment: A. Payment for Temporary Pavement will be the contract price per square yard. B. Payment is full compensation for furnishing material, equipment, and labor to construct and remove the temporary pavement in accordance with the contract documents.
19	2401-6745356	REMOVAL OF CONCRETE FOOTINGS OF LIGHT POLES Refer to Tab 110-16 in the C Sheets.
20	2401-6745650	REMOVAL OF EXISTING STRUCTURES Refer to Tab 110-2 in the C Sheets.
21	2401-6745765	REMOVAL OF LIGHT POLES Refer to Tab 110-16 in the C Sheets. All existing light poles to be removed shall be salvaged and set on-site for pickup by the University of Iowa.
22	2402-0425030	GRANULAR BACKFILL Refer to V Sheets for additional details.
23	2402-0425040	FLOODED BACKFILL Refer to Tab 104-3 and Tab 104-4 in the C Sheets.
24	2402-2720000	EXCAVATION, CLASS 20 This quantity is for excavation of RCB culverts.
25	2403-0100020	STRUCTURAL CONCRETE (RCB CULVERT) Includes 98.9 cy concrete for barrel sections labeled "cast-in-place". Includes 12.5 cy for 1 end section. Includes 3.6 cy for closure walls at 10' x 8' RCB culvert. Includes certified plant inspection in accordance with Section 2521 of the Standard Specifications.
26	2403-0900001	STRUCTURAL CONCRETE, CLASS C This item is for Retaining Wall #13 and #14. Refer to V Sheets for additional details. Includes certified plant inspection in accordance with Section 2521 of the Standard Specifications.
27	2404-7775000	REINFORCING STEEL Includes 17,774 lbs reinforcing steel for RCB culvert barrel sections labeled IN.cast-in-place IN.. Includes 1851 lbs for 1 RCB end section. Includes 960 lbs for closure walls at 10' x 8' RCB culvert. Includes 7648 lbs for Retaining Wall #13 and #14.
28	2414-6444100	STEEL PIPE PEDESTRIAN HAND RAILING This item is for box culvert end sections.
29	2414-6625502	STRUCTURAL STEEL RAILING, TRAFFIC Refer to V Sheets for additional details. Refer to Sheet V.5 for tabulation.
30	2414-6772020	STEEL FENCE, WELDED WIRE MESH This item is for Retaining Wall #13 and #14. Refer to V Sheets for additional details.
31	2415-2110604	PRECAST CONCRETE BOX CULVERT, 6 FT. X 4 FT.
32	2415-2110805	PRECAST CONCRETE BOX CULVERT, 8 FT. X 5 FT. Includes material and labor associated with providing and installing the culvert ties, lifting hole plugs, engineering fabric, joint material, and grout as required.
33	2415-2111004	PRECAST CONCRETE BOX CULVERT, 10 FT. X 4 FT. Refer to J Sheets for details. Includes 8 ft box extension for Stage 1 traffic control. Removal shall be incidental to bid item. Includes material and labor associated with providing and installing the culvert ties, lifting hole plugs, engineering fabric, joint material, and grout as required.
34	2415-2111008	PRECAST CONCRETE BOX CULVERT, 10 FT. X 8 FT. Includes material and labor associated with providing and installing the culvert ties, lifting hole plugs, engineering fabric, joint material, and grout as required.
35	2415-2200604	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 6 FT. X 4 FT. Includes material and labor associated with providing and installing the culvert ties, lifting hole plugs, engineering fabric, joint material, and grout as required. Includes 1 0° skew precast end section, 1 30° skew precast end section, 2 45° skew precast end sections, 4 precast lintel beams, and 4 precast curtain walls.
36	2415-2200805	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 8 FT. X 5 FT. Includes material and labor associated with providing and installing the culvert ties, lifting hole plugs, engineering fabric, joint material, and grout as required. Includes 4 0° skew precast end sections, 4 30° skew precast end sections, 8 precast lintel beams, and 8 precast curtain walls.
37	2416-0100015	APRON, CONCRETE, 15 IN. Refer to Tab 104-3 in the C Sheets.

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
38	2416-0100018	APRON, CONCRETE, 18 IN.
39	2416-0100027	APRON, CONCRETE, 27 IN.
40	2416-0100036	APRON, CONCRETE, 36 IN.
41	2416-0100048	APRON, CONCRETE, 48 IN.
42	2416-1160015	CULVERT, CONCRETE ENTRANCE PIPE, 15 IN. DIA.
43	2416-1180018	CULVERT, CONCRETE ROADWAY PIPE, 18 IN. DIA. Refer to Tab 104-3 in the C Sheets.
44	2432-0000100	MECHANICALLY STABILIZED EARTH RETAINING WALL Refer to V Sheets for additional details. Includes 2,574 SF for Wall #9, 1,875 SF for Wall #10, 17,515 SF for Wall #11 and 1,786 SF for Wall #12.
45	2435-0130148	MANHOLE, SANITARY SEWER, SW-301, 48 IN. Construction of some manholes in two stages due to project phasing shall be incidental to bid item. Provide castings with City of Iowa City covers as shown on Sheet B.15 unless otherwise noted in the plans. Class III, Class IVA, and Class IVB are not acceptable backfill materials. Refer to Tab 104-5B in the U Sheets.
46	2435-0140148	MANHOLE, STORM SEWER, SW-401, 48 IN.
47	2435-0140148	MANHOLE, STORM SEWER, SW-401, 48 IN., TYPE 3B CASTING
48	2435-0140160	MANHOLE, STORM SEWER, SW-401, 60 IN.
49	2435-0140160	MANHOLE, STORM SEWER, SW-401, 60 IN., TYPE 3B CASTING
50	2435-0140172	MANHOLE, STORM SEWER, SW-401, 72 IN.
51	2435-0140172	MANHOLE, STORM SEWER, SW-401, 72 IN., TYPE 3B CASTING
52	2435-0140184	MANHOLE, STORM SEWER, SW-401, 84 IN.
53	2435-0140200	MANHOLE, STORM SEWER, SW-402, 4' X 4'
54	2435-0140300	MANHOLE, STORM SEWER, SW-403, 4' X 4' Provide castings with City of Iowa City covers as shown on Sheet B.15 unless otherwise noted in the plans. Class III, Class IVA, and Class IVB are not acceptable backfill materials.
55	2435-0140410	MANHOLE, STORM SEWER, SW-404 MODIFIED Item is for precast junction box shown on Sheet V.52. Modify standard detail for rectangular openings from precast box in lieu of circular opening from pipe. Provide castings with City of Iowa City covers as shown on Sheet B.15 unless otherwise noted in the plans. Class III, Class IVA, and Class IVB are not acceptable backfill materials.
56	2435-0250100	INTAKE, SW-501
57	2435-0250500	INTAKE, SW-505
58	2435-0250700	INTAKE, SW-507
59	2435-0250800	INTAKE, SW-508
60	2435-0250900	INTAKE, SW-509
61	2435-0251000	INTAKE, SW-510 Refer to Tab 104-5B in the M Sheets. Provide castings with City of Iowa City covers as shown on Sheet B.15 unless otherwise noted in the plans. Class III, Class IVA, and Class IVB are not acceptable backfill materials.
62	2435-0251010	INTAKE, SW-510 MODIFIED Refer to Tab 104-5B in the M Sheets. Contractor to coordinate with a precast supply company to make the necessary changes needed to accommodate the additional depth of these structures. Provide castings with City of Iowa City covers as shown on Sheet B.15 unless otherwise noted in the plans. Class III, Class IVA, and Class IVB are not acceptable backfill materials.
63	2435-0251224	INTAKE, SW-512, 24 IN., TYPE 3B CASTING
64	2435-0251300	INTAKE, SW-513
65	2435-0254100	INTAKE, SW-541
66	2435-0254200	INTAKE EXTENSION UNIT, SW-542
67	2435-0254500	INTAKE, SW-545 Refer to Tab 104-5B in the M Sheets. Provide castings with City of Iowa City covers as shown on Sheet B.15 unless otherwise noted in the plans. Class III, Class IVA, and Class IVB are not acceptable backfill materials.
68	2435-0400000	DROP CONNECTION, SW-307
69	2435-0600010	MANHOLE ADJUSTMENT, MINOR
70	2435-0600020	MANHOLE ADJUSTMENT, MAJOR Refer to Tab 104-11 in the C Sheets. Class III, Class IVA, and Class IVB are not acceptable backfill materials.
71	2435-0700010	CONNECTION TO EXISTING MANHOLE
72	2501-0201253	PILES, STEEL, HP 12 X 53 This item is for Retaining Wall #13 and #14. Refer to V Sheets for additional details.
73	2501-8400172	TEMPORARY SHORING Due to restricted right-of-way and traffic control requirements, temporary shoring may be required for, but not limited to, the construction of utility trenches, retaining walls and the Park Road bridge abutments.
74	2502-2308110	CONTINUOUS TRENCH DRAIN (500-20) Refer to B.14 for additional details. Grate shall be ADA compliant and heel-proof.

Reference to temporary MSE wall has been removed from this pay item. Refer to new item 210

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
75	2502-8212036	SUBDRAIN, LONGITUDINAL, (SHOULDER) 6 IN. Refer to Tab 104-9 in the C Sheets. Use dual walled corrugated polyethylene pipe.
76	2502-8215121	SUBDRAIN, CORRUGATED METAL PIPE, 21 IN. DIA. Refer to Tab 104-5B in the M Sheets.
77	2502-8221304	SUBDRAIN OUTLET, DR-303 Refer to Tab 104-9 in the C Sheets. Use dual walled corrugated polyethylene pipe.
78	2503-0114218	STORM SEWER GRAVITY MAIN, TRENCHED, RCP 2000D, 18 IN.
79	2503-0114224	STORM SEWER GRAVITY MAIN, TRENCHED, RCP 2000D, 24 IN.
80	2503-0114236	STORM SEWER GRAVITY MAIN, TRENCHED, RCP 2000D, 36 IN.
81	2503-0114415	STORM SEWER GRAVITY MAIN, TRENCHED, RCP 3000D, 15 IN.
82	2503-0114421	STORM SEWER GRAVITY MAIN, TRENCHED, RCP 3000D, 21 IN.
83	2503-0114427	STORM SEWER GRAVITY MAIN, TRENCHED, RCP 3000D, 27 IN.
84	2503-0114430	STORM SEWER GRAVITY MAIN, TRENCHED, RCP 3000D, 30 IN.
85	2503-0114436	STORM SEWER GRAVITY MAIN, TRENCHED, RCP 3000D, 36 IN.
86	2503-0114448	STORM SEWER GRAVITY MAIN, TRENCHED, RCP 3000D, 48 IN. Refer to Tab 104-5B in the M Sheets.
87	2503-0200036	REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN. DIAMETER
88	2503-0200136	REMOVE STORM SEWER PIPE GREATER THAN 36 IN. DIAMETER
89	2503-0200341	STORM SEWER ABANDONMENT, FILL AND PLUG, LESS THAN OR EQUAL TO 36 IN. DIA. Refer to Tab 110-14 in the C Sheets.
90	2504-0112424	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 24 IN.
91	2504-0112442	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 42 IN.
92	2504-0112448	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 48 IN.
93	2504-0112648	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 48 IN. See Special Provision for Sanitary and Storm Sewer Pipe and Structural Materials and Standard Specifications 2504 and 4149. Refer to Tab 104-5B in the U Sheets.
94	2504-0114008	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 8 IN.
95	2504-0114010	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 10 IN.
96	2504-0114012	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 12 IN. Provide PVC truss pipe unless indicated otherwise. Provide PVC pressure pipe and concrete pipe collars where indicated on drawings. PVC pressure pipe shall be AWWA C900 pipe. Concrete pipe collars shall be incidental to bid item. Refer to Tab 104-5B in the U Sheets.
97	2504-0116008	SANITARY SEWER GRAVITY MAIN, TRENCHED, DIP, 8 IN.
98	2504-0116010	SANITARY SEWER GRAVITY MAIN, TRENCHED, DIP, 10 IN.
99	2504-0116048	SANITARY SEWER GRAVITY MAIN, TRENCHED, DIP, 48 IN. Provide with calcium aluminate lining. Refer to Tab 104-5B in the U Sheets.
100	2504-0200406	SANITARY SEWER SERVICE STUB, PVC, 6 IN. Connect sanitary sewer service stub to existing service. Service length beyond what is shown on drawings shall be approved by City Engineer. Locating and connecting to existing service shall be incidental to bid item. Refer to Tab 104-5B in the U Sheets.
101	2504-0200806	SANITARY SEWER SERVICE STUB WITH RISER, PVC, 6 IN. Connect sanitary sewer service stub with riser to existing service. Service length beyond what is shown on drawings shall be approved by City Engineer. Locating and connecting to existing service shall be incidental to bid item. Refer to Tab 104-5B in the U Sheets.
102	2504-0220000	SANITARY SEWER SERVICE RELOCATION
103	2504-0240036	REMOVE SANITARY SEWER PIPE LESS THAN OR EQUAL TO 36 IN.
104	2504-0240236	SAN SEWER ABANDONMENT, FILL AND PLUG, LESS THAN OR EQUAL TO 36 IN. DIA. Refer to Tab 110-14 in the C Sheets.
105	2505-4008120	REMOVAL OF STEEL BEAM GUARDRAIL Refer to Tab 110-7A in the C Sheets.
106	2505-4021020	STEEL BEAM GUARDRAIL END ANCHOR, W-BEAM Refer to Sheet E.14 details and location.
107	2506-4984000	FLOWABLE MORTAR Refer to Tab 104-3 in the C Sheets. Includes certified plant inspection in accordance with Section 2521 of the Standard Specifications.
108	2507-6799000	BANK SHAPING Refer to V Sheets for bank shaping.
109	2507-6800000	MATERIAL FOR FILTER BLANKET Material shall conform to Article 4122.02A and 4122.03A. Refer to V Sheets for additional details. Bid item includes 10% additional quantity along walls and bridge abutments for embedment.

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
		This item includes geotextile fabric for separation and shall be considered incidental to this bid item.
110	2507-6800021	REVTMENT, CLASS B Refer to V Sheets for additional details. Recycled PCC pavement or broken concrete not acceptable. Bid item includes the area below the typical four foot revetment section along the slopes in fill areas. Bid item includes 10% additional quantity along walls and bridge abutments for embedment. Revetment shall conform to USACE-MVR requirements and approved source downstation of 106+91.66.
111	2507-6800061	REVTMENT, CLASS E Refer to V Sheets for additional details. Item is for box culvert end sections. Recycled PCC pavement or broken concrete not acceptable.
112	2510-6745850	REMOVAL OF PAVEMENT Refer to Tab 110-1 in the C Sheets. Includes 16,754 SY removal of detour pavement. Refer to J Sheets for details.
113	2510-6750600	REMOVAL OF INTAKE AND UTILITY ACCESS Refer to Tab 110-15 in the C Sheets.
114	2511-0302800	RECREATIONAL TRAIL, PCC, 8 IN. Refer to B Sheets for details and locations. Includes certified plant inspection in accordance with Section 2521 of the Standard Specifications. Includes pavement smoothness in accordance with Section 2301.03.H.4 of the Standard Specifications.
115	2511-0310100	SPECIAL COMPACTION OF SUBGRADE FOR RECREATIONAL TRAIL Refer to B Sheets for details and locations.
116	2511-6745900	REMOVAL OF SIDEWALK Refer to Tab 110-5 in the C Sheets.
117	2511-7526006	SIDEWALK, PCC, 6 IN. Refer to Tab 113-1 in the C Sheets. Includes certified plant inspection in accordance with Section 2521 of the Standard Specifications. Includes pavement smoothness in accordance with Section 2301.03.H.4 of the Standard Specifications.
118	2511-7528101	DETECTABLE WARNING Refer to Tab 113-1 in the C Sheets.
119	2512-1750006	CURB AND GUTTER, P.C. CONCRETE, AS PER PLAN Refer to Tab 112-4 in the C Sheets. Includes certified plant inspection in accordance with Section 2521 of the Standard Specifications.
120	2513-0001081	CONCRETE BARRIER, TAPERED END, BA-108 Refer to Tab 108 18B MOD in the C Sheets. Attach tapered end section to Bridge approach pavement using Standard Road Plan BA-108.
121	2515-2475006	DRIVEWAY, PCC, 7 IN.
122	2515-2475009	DRIVEWAY, PCC, 9 IN. Refer to Tab 102-3 in the C Sheets. Includes certified plant inspection in accordance with Section 2521 of the Standard Specifications.
123	2515-6745600	REMOVAL OF PAVED DRIVEWAY Refer to Tab. 110-8 in the C Sheets.
124	2516-8625000	COMBINED CONCRETE SIDEWALK AND RETAINING WALL Refer to Tab 108-16 in the C Sheets. Includes certified plant inspection in accordance with Section 2521 of the Standard Specifications. Includes pavement smoothness (applies to sidewalk only) in accordance with Section 2301.03.H.4 of the Standard Specifications.
125	2518-6910000	SAFETY CLOSURE Refer to Tab 108-13A in the C Sheets.
126	2519-3300600	FENCE, SAFETY Refer to Sheet E.1, E.3 and E.5 for details and locations.
127	2519-3760000	ENTRANCE BOLLARD
128	2523-0000200	ELECTRICAL CIRCUITS
129	2523-0000310	HANDHOLES AND JUNCTION BOXES
130	2523-0000400	CONTROL CABINET
131	2523-0000500	UNDERDECK LIGHTING
132	2523-6765009	REMOVE AND REINSTALL LIGHT POLE AND LUMINAIRE Refer to P Sheets for additional details.
133	2525-0000100	TRAFFIC SIGNALIZATION
134	2525-0000120	REMOVAL OF TRAFFIC SIGNALIZATION Refer to schedule of quantities in the N Sheets. See Special Provision for Traffic Signalization requirements.
135	2526-8285000	CONSTRUCTION SURVEY
136	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED
137	2527-9263131	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
138	2527-9263137	PAINTED SYMBOL AND LEGEND, WATERBORNE OR SOLVENT BASED
139	2527-9263600	REMOVABLE, NONREFLECTIVE, PREFORMED TAPE Refer to Tab 108-22 and 108-29 in the C Sheets. Refer to J Sheets for additional details.
140	2528-8400048	TEMPORARY BARRIER RAIL, CONCRETE Refer to Tab 108-33 in the C Sheets. Refer to J Sheets for additional details. Terminate Temporary Barrier Rail ends with tapered end sections.
141	2528-8400157	TEMPORARY FLOODLIGHTING LUMINAIRE Refer to P Sheets for additional details.
142	2528-8400256	TEMPORARY TRAFFIC SIGNALS Refer to Tab 108-28 in the C Sheets. Refer to J Sheets for additional details. See Special Provisions for Temporary Traffic Signalization requirements.
143	2528-8445110	TRAFFIC CONTROL Refer to Traffic Control Plan and additional information on J Sheets. This item includes providing detour routes and furnishing, erecting, maintaining and removing all detour signs.
144	2528-8445113	FLAGGERS
145	2533-4980005	MOBILIZATION
146	2552-0000140	ROCK EXCAVATION
147	2552-0000230	SPECIAL PIPE EMBEDMENT OR ENCASEMENT Encase 8" sanitary sewer. Refer to Sheet V.54 for details.
148	2552-0000300	TRENCH COMPACTION TESTING Includes testing of trench backfill material for water main, storm sewer, sanitary sewer, electrical conduits, and fiber conduit.
149	2554-0112006	WATER MAIN, TRENCHED, DIP, 6 IN.
150	2554-0112008	WATER MAIN, TRENCHED, DIP, 8 IN.
151	2554-0112012	WATER MAIN, TRENCHED, DIP, 12 IN.
152	2554-0112016	WATER MAIN, TRENCHED, DIP, 16 IN.
153	2554-0132008	WATER MAIN WITH CASING PIPE, TRENCHED, DIP, 8 IN.
154	2554-0132012	WATER MAIN WITH CASING PIPE, TRENCHED, DIP, 12 IN.
155	2554-0132016	WATER MAIN WITH CASING PIPE, TRENCHED, DIP, 16 IN. See Special Provision for Water Mains and Appurtenances.
156	2554-0202200	FITTINGS BY COUNT, DUCTILE IRON See Special Provision for Water Mains and Appurtenances. Includes (1) 12" Cap.
157	2554-0202400	FITTINGS BY COUNT, POLYVINYL CHLORIDE (PVC)
158	2554-0204000	WATER SERVICE STUB, PVC, 4 IN.
159	2554-0204000	WATER SERVICE STUB, PVC, 6 IN.
160	2554-0204000	WATER SERVICE STUB, PVC, 8 IN.
161	2554-0204120	WATER SERVICE STUB, COPPER, 2 IN.
162	2554-0207000	GATE VALVE, DIP, 2 IN.
163	2554-0207000	GATE VALVE, DIP, 16 IN.
164	2554-0207004	GATE VALVE, DIP, 4 IN.
165	2554-0207006	GATE VALVE, DIP, 6 IN.
166	2554-0207008	GATE VALVE, DIP, 8 IN.
167	2554-0207012	GATE VALVE, DIP, 12 IN.
168	2554-0210201	FIRE HYDRANT ASSEMBLY, WM-201
169	2554-0212020	VALVE BOX EXTENSION
170	2554-0212030	VALVE BOX REPLACEMENT
171	2554-0214000	FIRE HYDRANT ADJUSTMENT See Special Provision for Water Mains and Appurtenances.
172	2599-9999001	NATIVE TURF SEED MIX See Sheet K.1 for Method of Measurement and Basis of Payment information.
173	2599-9999003	STONE BACKFILL Refer to V Sheets and Special Provisions for MSE Wall Stone Backfill details. Includes quantities along walls and bridge abutments.
174	2599-9999005	ROADWAY LIGHTING POLES
175	2599-9999005	TRAIL/SIDEWALK LIGHTING POLES
176	2599-9999005	BRIDGE MOUNTED LIGHTING POLES
177	2599-9999005	LUMINAIRE ON TRAFFIC SIGNAL STRUCTURE See Sheet P.1 for Method of Measurement and Basis of Payment information.
178	2599-9999005	DECORATIVE BENCH See Sheet K.1 for Method of Measurement and Basis of Payment information.
179	2599-9999005	IN-LINE ELASTOMERIC CHECK VALVE Furnish and install slip-in style check valve. Construction shall be all rubber and of the flow operated check type with slip-in cuff connection. Secure with stainless steel hardware in accordance with manufacturer's recommended installation. Includes (1) 15" and (1) 21". Refer to Sheet M.19 and M.31 for locations.

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
		Method of Measurement: Measurement will be for each item installed.
		Basis of Payment: Payment will be the contract unit price for each item installed per plan. Payment is full compensation for all labor, equipment and materials to install the check valve in accordance with manufacturer's recommendations.
180	2599-9999005	COMBINATION AIR VALVE ASSEMBLY, 1 IN.
181	2599-9999005	COMBINATION AIR VALVE VAULT
182	2599-9999005	CONNECTION TO EXISTING
183	2599-9999005	REMOVE EXISTING HYDRANTS
184	2599-9999005	FLEXIBLE EXPANSION JOINT, 12 IN. See Special Provision for Water Mains and Appurtenances and Special Provision for Pre-Insulated Water Mains and Appurtenances.
185	2599-9999005	MANHOLE, SANITARY SEWER, SW-301 MODIFIED, 48 IN.
186	2599-9999005	MANHOLE, SANITARY SEWER, SW-301 MODIFIED, 72 IN.
187	2599-9999005	MANHOLE, SANITARY SEWER, SW-301 MODIFIED, 84 IN.
188	2599-9999005	MANHOLE, SANITARY SEWER, SW-303 MODIFIED, 48 IN.
189	2599-9999005	MANHOLE, SANITARY SEWER, SW-303 MODIFIED, 72 IN.
190	2599-9999005	MANHOLE, SANITARY SEWER, SW-303 MODIFIED, 144 IN. See Standard Specification 2435. Construction of some manholes in two stages due to project phasing shall be incidental to bid item. Provide castings with City of Iowa City covers as shown on Sheet B.15 unless otherwise noted in the plans. Class III, Class IVA, and Class IVB are not acceptable backfill materials. Refer to Tab 104-5B in the U Sheets. Method of Measurement and Basis of Payment shall be noted in Standard Specification Section 2435.04 and 2435.05 for Manhole.
191	2599-9999005	HANDHOLE, 30 IN. X 48 IN.
192	2599-9999005	HANDHOLE, 48 IN. X 48 IN. X 51 IN.
193	2599-9999009	CONDUIT, HDPE, 2 IN.
194	2599-9999009	CONDUIT, HDPE, 4 IN. See Special Provision for Telecommunications Outside Plant and Materials. Five percent has been added to lengths for HDPE Conduit, Pull Tape, and Tracer Wire to account for necessary field adjustments in routing and connections to existing facilities.
195	2599-9999009	CONDUIT ON BRIDGE, GALVANIZED RIGID STEEL, 2 IN.
196	2599-9999009	CONDUIT ON BRIDGE, GALVANIZED RIGID STEEL, 4 IN. See Iowa DOT Standard Specification 2523 for conduit material specifications. See bridge plans (V Sheets) for additional details. Method of Measurement: Measurement will be linear feet from end to end. Basis of Payment: Payment will be at the contract price per linear foot. Payment is full compensation for labor, equipment and materials for installation.
197	2599-9999009	PULL TAPE FOR CONDUIT
198	2599-9999009	TRACER WIRE FOR HDPE CONDUIT See Special Provision for Telecommunications Outside Plant and Materials. Five percent has been added to lengths for HDPE Conduit, Pull Tape, and Tracer Wire to account for necessary field adjustments in routing and connections to existing facilities.
199	2599-9999009	WATER MAIN, PREINSULATED, DIP, 8 IN.
200	2599-9999009	WATER MAIN, PREINSULATED, DIP, 16 IN.
201	2599-9999009	WATER MAIN ON BRIDGE, PREINSULATED, DIP, 12 IN. See Special Provision for Pre-Insulated Water Mains and Appurtenances.
202	2599-9999009	FILL EXISTING WATER PIPE
203	2599-9999009	REMOVE EXISTING WATER PIPE See Special Provision for Water Mains and Appurtenances.
204	2599-9999009	PEDESTRIAN RAILING WITH CURB Refer to V Sheets for additional details. Method of Measurement: Measurement will be linear feet from end to end. Basis of Payment: Payment will be at the contract price per linear foot. Payment is full compensation for labor, equipment and materials to install the railing.
205	2599-9999010	CATHODIC PROTECTION See Special Provision for Cathodic Protection.
206	2599-9999010	SEAT WALL Refer to V Sheets for additional details. Method of Measurement: Measurement of lump sum includes completed seat wall per plan. Basis of Payment: Payment will be at the contract unit price of lump sum for completed work per plan. Payment is full compensation for labor, equipment and materials to install cast-in-place concrete seat wall.
207	2599-9999010	INTERMEDIATE FOUNDATION IMPROVMENTS
208	2599-9999010	INTERMEDIATE FOUNDATION IMPROVMENTS VERIFICATION AND TESTING Refer to V Sheets and Special Provisions for Intermediate Foundation Improvements.
209	2599-9999010	AESTHETIC LIGHTING See Special Provision for Aesthetic Lighting.
210	2599-9999014	TEMPORARY MECHANICALLY STABILIZED EARTH RETAINING WALL Refer to V Sheets for additional details. Include 9790 SF for Temporary Wall S2 and 1128 SF for Temporary Wall S4. The temporary walls are to be left in place.

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
		Method of Measurement: Measurement will be in square feet. Basis of Payment: Payment will be the contract unit price of square feet. Payment is full compensation for all labor, equipment and materials to install the temporary retaining wall.
211	2599-9999018	MOMENT SLAB Refer to V Sheets for additional details. Method of Measurement: Measurement will be in square yards. Basis of Payment: Payment will be at the contract unit price of square yards. Payment is full compensation for labor, equipment and materials to install the moment slab.
212	2599-9999018	COLORED/STAMPED SIDEWALK, PCC, 6 IN. Refer to Tab 113-1 in the C Sheets. Iowa City will provide stamping pattern. Color to be Dark Gray as approved by Iowa City. Includes certified plant inspection in accordance with Section 2521 of the Standard Specifications. Method of Measurement and Basis of Payment shall be noted in Standard Specification Section 2511.04 and 2511.05 for Sidewalk or Recreational Trail.
213	2601-2633100	MOWING
214	2601-2634450	COMPOST
215	2601-2636015	NATIVE GRASS SEEDING
216	2601-2636018	WETLAND GRASS SEEDING
217	2601-2636044	SEEDING AND FERTILIZING (URBAN)
218	2601-2639010	SODDING
219	2601-2640350	SPECIAL DITCH CONTROL, WOOD EXCELSIOR MAT
220	2601-2642120	STABILIZING CROP - SEEDING AND FERTILIZING (URBAN) Refer to K Sheets for additional details.
221	2602-0000020	SILT FENCE
222	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS
223	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK
224	2602-0000306	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 6 IN. DIA.
225	2602-0000309	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 9 IN. DIA. Refer to Tab 100-19 in the C Sheets for details and locations.
226	2602-0010010	MOBILIZATION, EROSION CONTROL
227	2610-0000600	TILLAGE
228	2610-0000180	FLOWERS, AS PER PLAN
229	2611-0000100	SHRUBS, FURNISHED AND INSTALLED (WITH WARRANTY)
230	2611-0000200	TREES, FURNISHED AND INSTALLED (WITH WARRANTY)
231	2612-0000500	ROADSIDE SPRAYING
232	2612-0000520	ROADSIDE SPRAY FOR WEED CONTROL Refer to K Sheets for additional details. Deer protection is the Contractor's responsibility.

STANDARD ROAD PLANS

The following Standard Road Plans apply to construction work on this project.		
Number	Date	Title
BA-104	04-20-10	34" Concrete Barrier for use with Reinforced Paved Shoulder
BA-108	04-19-11	Concrete Barrier Tapered End Section
BA-401	04-16-13	Temporary Barrier Rail (Precast Concrete)
DR-101	04-19-16	Pipe Culvert (Bedding and Backfill)
DR-103	04-21-15	Pipe Culvert (Installation Details)
DR-104	04-19-16	Depth of Cover Tables for Concrete and Corrugated Pipe
DR-111	04-21-15	Box Culvert (Backfill)
DR-121	10-20-15	Connected Pipe Joints
DR-122	04-21-15	Construction of Type "C" Concrete Adaptors for Pipe Culvert Connections
DR-201	04-21-15	Concrete Aprons
DR-213	04-21-15	Pipe Apron Guard
DR-303	10-20-15	Subdrains (Longitudinal)
DR-304	04-21-15	Outlets for Longitudinal, Transverse and Backslope Subdrains
DR-305	04-21-15	Subdrain Outlets (Standard Subdrain, Pressure Release and Special)
DR-601	10-20-15	Reinforced Concrete Pipe Culvert
EC-101	04-19-16	Wood Excelsior Mat for Ditch Protection
EC-103	04-21-15	Wood Excelsior Mat for Slope Protection
EC-201	04-21-15	Silt Fence
EC-204	04-19-16	Perimeter and Slope Sediment Control Devices
EC-501	04-21-15	Trees and Shrubs
EW-101	10-20-15	Embankment and Rebuilding Embankments
EW-102	10-20-15	Allowable Placement of Unsuitable Soil in Embankments
EW-103	10-20-15	Embankment Subgrade Treatment, Moisture Density Control and Special Compaction
EW-212	10-20-15	Settlement Plate
EW-503	10-20-15	Side Road Grading
LI-101	10-21-14	Light Pole Location
LI-103	10-21-14	Conduit and Precast Handholes
LI-104	10-21-14	Junction box (cast Iron)
LI-130	10-21-14	Temporary Floodlighting Luminaires
LI-141	10-21-14	Electrical Installation (Roadway Ducts)
LI-142	04-21-15	Electrical Installation (Bases)
LI-151	10-21-14	Control Cabinet (Pole-Mounted)
LI-152	10-21-14	Control Cabinet (Pad-Mounted)
LI-201	04-19-16	Light Pole Foundation
LI-210	10-21-14	Transformer Base (Cast Aluminum)
LI-211	10-20-15	Slip-Base for Light Poles
MI-210	10-20-15	PCC Driveways and Alleys
MI-220	10-20-15	Detectable Warnings and Pedestrian Ramp
MI-221	10-20-15	Combined Retaining Wall - Sidewalk
PM-110	04-16-13	Line Types
PM-111	04-21-15	Symbols and Legends
PV-101	04-19-16	Joints
PV-102	04-15-14	PCC Curb Details
PV-103	04-19-11	Manhole Boxouts in PCC Pavement
PV-104	04-19-11	Ramped Median Nose
SI-881	10-15-13	Special Signs for Workzones
SI-882	04-20-10	Special Signs for Restricted Width Traffic Control Zones
SW-101	04-21-09	Trench Bedding and Backfill Zones
SW-102	10-20-15	Rigid Gravity Pipe Trench Bedding
SW-103	10-20-15	Flexible Gravity Pipe Trench Bedding
SW-104	04-21-09	Pressure Pipe Trench Bedding
SW-201	04-21-09	Sanitary Sewer Service Stub
SW-211	10-16-12	Special Pipe Connections for Storm Sewer
SW-301	Modified	Circular Sanitary Sewer Manhole
SW-303	Modified	Sanitary Sewer Manhole over Existing Sewer
SW-306	04-21-15	Chimney Seals for Sanitary Sewer Manholes
SW-307	04-21-09	Drop Connection for Sanitary Sewer
SW-401	04-21-09	Circular Storm Sewer Manhole
SW-402	04-21-09	Rectangular Storm Sewer Manhole
SW-404	04-17-12	Rectangular Base/Circular Top Storm Sewer Manhole
SW-501	10-16-12	Single Grate Intake
SW-505	10-16-12	Double Grate Intake
SW-507	10-21-14	Single Open-Throat Intake, Small Box
SW-509	10-21-14	Double Open-Throat Curb Intake, Small Box
SW-511	04-21-09	Rectangular Area Intake
SW-512	10-21-14	Circular Area Intake
SW-513	04-21-09	Open-Sided Area Intake
SW-514	04-21-09	Boxouts for Grate Intakes
SW-541	10-16-12	Open-Throat Curb Intake under Pavement
SW-545	10-18-11	Single Open-Throat Curb Intake with Extended Opening
SW-601	Modified	Castings for Sanitary Sewer Manholes
SW-602	Modified	Castings for Storm Sewer Manholes
SW-603	10-15-13	Castings for Grate Intakes
SW-604	10-20-09	Castings for Area Intakes
TC-1	04-16-13	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
TC-61	04-21-15	Two-Lane, Two-way Operation
TC-252	04-19-16	Routes Closed to Traffic
TC-423	04-15-14	Closure of Two Adjacent Lanes on Undivided Highway
TC-433	10-21-14	Pavement Marking Operations
TC-601	10-18-11	Pedestrian Detour
TC-602	10-18-11	Sidewalk Diversion
WM-101	04-21-09	Thrust Blocks

**ENGLISH STANDARD
CULVERT PLANS**

STANDARD	ISSUED	REVISED
PRCB G1-13	1-13	1-13
PRCB G2-13	1-13	1-13
PRCB 6-13	1-13	1-13
PRCB 8-13	1-13	1-13
PRCB 10-13	1-13	1-13
PES 1-13-T1	1-13	5-13
PES 1-13-T3	1-13	5-13
PES 2-13-T3	1-13	5-13
PES 3-13-T3	1-13	1-13
PEP 1-13	1-13	10-14
RCB G1-12	4-12	10-12
RCB G2-12	4-12	7-14
RCB 10-4-12	4-12	4-12
PWH 0-1-12	4-12	4-12
PWH 0-2-12	4-12	4-12
PWH 0-3-12	4-12	4-12
PWH 0-4-12	4-12	4-12
PWH 0-6-12	4-12	4-12

REMOVAL OF LIGHT POLES AND CONCRETE FOOTINGS

No.	Location		Removal of Light Pole	Removal of Concrete Footing for Light Pole	Remarks	
	Station	Offset				
		Left				Right
1	102+30	24		1	Dubuque Street Baseline	
2	103+16		31	1	Dubuque Street Baseline	
3	104+25	24		1	Dubuque Street Baseline	
4	105+38		38	1	Dubuque Street Baseline	
5	108+50	35		1	Dubuque Street Baseline	
6	109+31		36	1	Dubuque Street Baseline	
7	110+30	34		1	Dubuque Street Baseline	
8	111+31		37	1	Dubuque Street Baseline	
9	112+21	35		1	Dubuque Street Baseline	
10	113+48		38	1	Dubuque Street Baseline	
11	114+67	33		1	Dubuque Street Baseline	
12	115+88		40	1	Dubuque Street Baseline	
13	116+89	40		1	Dubuque Street Baseline	
14	118+30	32		1	Dubuque Street SB Baseline	
15	124+14	65		1	Dubuque Street SB Baseline	
16	124+93	66		1	Dubuque Street SB Baseline	
17	125+70	63		1	Dubuque Street SB Baseline	
18	126+00	135		1	Dubuque Street SB Baseline	
19	126+47	59		1	Dubuque Street SB Baseline	
20	127+16	51		1	Dubuque Street SB Baseline	
21	127+98	39		1	Dubuque Street SB Baseline	
22	128+74	41		1	Dubuque Street SB Baseline	
23	129+55	42		1	Dubuque Street SB Baseline	
24	130+33	41		1	Dubuque Street SB Baseline	
25	131+10	42		1	Dubuque Street SB Baseline	
26	131+87	39		1	Dubuque Street SB Baseline	
27	132+67	34		1	Dubuque Street SB Baseline	
28	133+57	44		1	Dubuque Street SB Baseline	
29	134+27	55		1	Dubuque Street SB Baseline	
30	135+02	69		1	Dubuque Street SB Baseline	
31	135+85	90		1	Dubuque Street SB Baseline	
32	136+66	89		1	Dubuque Street SB Baseline	
33	142+85		6	1	Dubuque Street SB Baseline	
34	218+30		25	1	Dubuque Street NB Baseline	
35	219+51	17		1	Dubuque Street NB Baseline	
36	220+75	26		1	Dubuque Street NB Baseline	
37	220+77	12		1	Dubuque Street NB Baseline	
38	222+00	23		1	Dubuque Street NB Baseline	
39	222+01	4		1	Dubuque Street NB Baseline	
40	223+24	20		1	Dubuque Street NB Baseline	
41	223+27		7	1	Dubuque Street NB Baseline	
42	224+49	18		1	Dubuque Street NB Baseline	
43	224+52		11	1	Dubuque Street NB Baseline	
44	225+73	18		1	Dubuque Street NB Baseline	
45	225+77		12	1	Dubuque Street NB Baseline	
46	226+99	22		1	Dubuque Street NB Baseline	
47	227+02		12	1	Dubuque Street NB Baseline	
48	228+26	39		1	Dubuque Street NB Baseline	
49	228+27		13	1	Dubuque Street NB Baseline	
50	229+60	46		1	Dubuque Street NB Baseline	
51	229+46		31	1	Dubuque Street NB Baseline	
52	230+93	45		1	Dubuque Street NB Baseline	
53	230+61		44	1	Dubuque Street NB Baseline	
54	232+00		40	1	Dubuque Street NB Baseline	
55	232+52	31		1	Dubuque Street NB Baseline	
56	232+84		1	1	Dubuque Street NB Baseline	
57	234+03	12		1	Dubuque Street NB Baseline	
58	234+92		8	1	Dubuque Street NB Baseline	
59	235+55	3		1	Dubuque Street NB Baseline	
60	236+35		9	1	Dubuque Street NB Baseline	
61	237+03		7	1	Dubuque Street NB Baseline	
62	237+84		18	1	Dubuque Street NB Baseline	
63	238+53		17	1	Dubuque Street NB Baseline	
64	239+34		21	1	Dubuque Street NB Baseline	
65	240+00		23	1	Dubuque Street NB Baseline	
66	240+86		24	1	Dubuque Street NB Baseline	
67	241+62	15		1	Dubuque Street NB Baseline	
68	242+44		58	1	Dubuque Street NB Baseline	
69	341+26		39	1	Park Road Baseline	
70	343+78		21	1	Park Road Baseline	
71	344+65	10		1	Park Road Baseline	
72	345+65		29	1	Park Road Baseline	
73	346+55	35		1	Park Road Baseline	
74	347+19		14	1	Park Road Baseline	
75	347+75	61		1	Park Road Baseline	
76	348+70	30		1	Park Road Baseline	
77	349+10		175	1	Park Road Baseline	
78	349+43		102	1	Park Road Baseline	
79	349+50	112		1	Park Road Baseline	
80	349+77		30	1	Park Road Baseline	
81	349+86	44		1	Park Road Baseline	

REMOVAL OF LIGHT POLES AND CONCRETE FOOTINGS

No.	Location		Removal of Light Pole	Removal of Concrete Footing for Light Pole	Remarks	
	Station	Offset				
		Left				Right
82	350+55	64		1	Park Road Baseline	
83	351+52	101		1	Park Road Baseline	
84	352+68	110		1	Park Road Baseline	
85	353+97	119		1	Park Road Baseline	
86	355+13	128		1	Park Road Baseline	

REMOVAL OF EXISTING STRUCTURES

Location	Description	Remarks
Sta. 113+13	Existing 10' x 3' RCB N. of Kimball Rd.	
Sta. 142+50	Existing Twin 8' x 5' RCB S. of Foster Rd.	
Sta. 223+00	Existing 3' x 3' RCB under Dubuque St.	
Sta. 2116+25	Existing 5.8' x 4.5' RCB under Kimball Rd.	
Sta. 12118+85	Existing 5.5' x 5.0' RCB under Gilbert St.	
Sta. 227+40, 66' Rt.	Existing Ramp and Stairs	Protect Existing Floodwall
Sta. 230+50, 95' Rt.	Existing Timber Wall	

REBUILDING OF INTAKES AND UTILITY ACCESSES

No.	Location Station	Type	Adjustment
1	100+80.00	Storm Manhole	Minor adjustment
2	1348+99.00	Storm Manhole	eST-386 major adjustment
3	1349+79.00	Storm Manhole	eST-388 minor adjustment
1	143+60.00	Sanitary Manhole	eSAN-018 minor adjustment to SAN-211
2	143+60.00	Sanitary Manhole	eSAN-019 major adjustment to SAN-212
3	230+30.00	Sanitary Manhole	eSAN-040 major adjustment to SAN-195
4	341+63.00	Sanitary Manhole	eSAN-049 minor adjustment to SAN-224

Reference to removing Park Road bridge has been taken off of this tabulation. That work is covered in the Bridge Sheets.

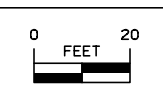


During Stage 2 provide temporary intake at low point of ramp with a pipe outletting to river to maintain drainage during construction. Minimum pipe size shall be 15". Remove during Stage 4A. Cost incidental to **Detour Pavement.**

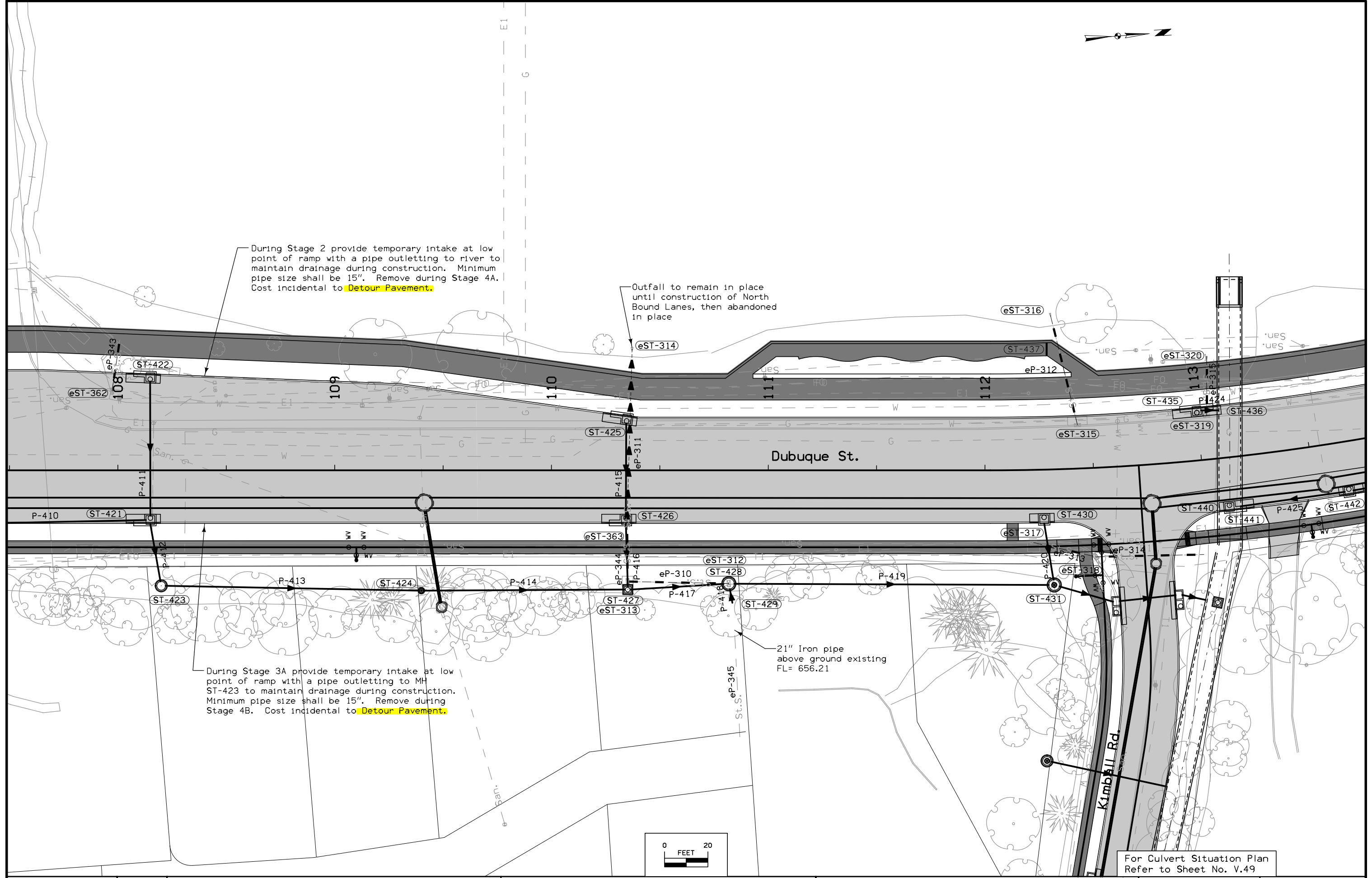
Outfall to remain in place until construction of North Bound Lanes, then abandoned in place

During Stage 3A provide temporary intake at low point of ramp with a pipe outletting to MH ST-423 to maintain drainage during construction. Minimum pipe size shall be 15". Remove during Stage 4B. Cost incidental to **Detour Pavement.**

21" Iron pipe above ground existing
FL= 656.21



For Culvert Situation Plan
Refer to Sheet No. V.49

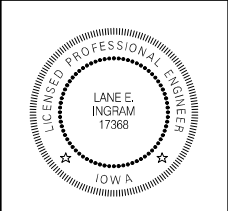


ITEM	ITEM CODE	DESCRIPTION	UNIT	PARK ROAD		FOSTER ROAD	
				TOTAL	TOTAL	TOTAL	TOTAL
CONTROLLER AND CABINET		8-PHASE, CABINET W/ ACCESSORIES	EACH	1			
		RELOCATE CONTROLLER / CABINET	EACH			1	
DETECTOR UNITS		APS PEDESTRIAN PUSH BUTTON	EACH	6		3	
		RELOCATE PTZ CAMERA	EACH			1	
		RELOCATE VIDEO DETECTION CAMERA	EACH			1	
		VIDEO DETECTION CAMERA	EACH	4		3	
TRAFFIC SIGNAL HEADS		12" R, Y, G MASTARM MOUNT	EACH	7		7	
		12" <R, <Y, <G MASTARM MOUNT	EACH	1		1	
		12" R, Y, G, <G MASTARM MOUNT	EACH	1			
		12" R, Y, <Y, <G MASTARM MOUNT	EACH	1			
		12" R, Y, G SIDE OF POLE MOUNT	EACH	1		2	
		PEDESTRIAN SIGNAL HEAD W/ COUNTDOWN TIMER	EACH	8		4	
HANDHOLES		PRECAST CONCRETE COMPOSITE HANDHOLE, TYPE II	EACH	3		2	
		PRECAST CONCRETE COMPOSITE HANDHOLE, TYPE IV	EACH	1		1	
WIRE AND CABLE		SIGNAL - 4c #14	LIN FT	940		1308	
		SIGNAL - 7c #14	LIN FT	201		0	
		PEDESTRIAN SIGNAL - 9c #14	LIN FT	587		404	
		PEDESTRIAN SIGNAL HEAD - 4c #14	LIN FT	204		48	
		PUSH BUTTON - 2c #14	LIN FT	154		156	
		GROUND - 1c #6	LIN FT	583		448	
		LUMINAIRE - 1c #8	LIN FT	0		171	
		POWER - 2c #6	LIN FT	51		53	
		TRACER - 1c #10	LIN FT	461		293	
		VIDEO DETECTION CABLE	LIN FT	787		928	
	PULL ROPE	LIN FT	461		293		
CONDUIT		2" HDPE, TRENCHED	LIN FT	112		39	
		3" HDPE, TRENCHED	LIN FT	40		48	
		4" HDPE, TRENCHED	LIN FT	309		30	
		4" HDPE, PUSHED	LIN FT	0		176	
CONCRETE FOOTINGS		CONTROLLER FOOTING	EACH	1		1	
		3'-6" DIA. X 15'-0"	EACH	1			
		3'-0" DIA. X 15'-0"	EACH			1	
		3'-0" DIA. X 13'-0"	EACH	1		2	
		3'-0" DIA. X 11'-0"	EACH	2			
		2'-0" DIA. X 3'-0"	EACH	2			
TRAFFIC SIGNAL POLES		1'-0" DIA. X 4'-0"	EACH	2		1	
		COMBO SIGNAL/LUMINAIRE MASTARM - 65 feet	EACH	1			
		COMBO SIGNAL/LUMINAIRE MASTARM - 50 feet	EACH			1	
		COMBO SIGNAL/LUMINAIRE MASTARM - 45 feet	EACH			1	
		COMBO SIGNAL/LUMINAIRE MASTARM - 40 feet	EACH	1			
		COMBO SIGNAL/LUMINAIRE MASTARM - 30 feet	EACH	2			
		SIGNAL MASTARM - 45 feet	EACH			1	
		SIGNAL POLE PEDESTAL - 10 feet	EACH	2			
LUMINAIRE		PEDESTRIAN PUSH BUTTON POST	EACH	2		1	
		PUSH BUTTON FRAME EXTENDER, 12"	EACH	2			
		SEE P-SHEETS					
MISC.		R3-5 SIGN, 30" x 36"	EACH	4		3	
		R3-6 SIGN, 30" x 36"	EACH	1			
		R10-5 SIGN, 24" x 30"	EACH			2	
		R10-11 SIGN, 30" x 36"	EACH			1	
		R10-12 SIGN, 30" x 36"	EACH			2	
		R10-15 SIGN, 30" x 30"	EACH	3			
		R10-SPECIAL 30" x 36"	EACH	1			
		D-3 "DUBUQUE STREET" SIGN	EACH	2		2	
		D-3 "FOSTER ROAD" SIGN	EACH			2	
		D-3 "PARK ROAD" SIGN	EACH	2			
		R10-3e(L) SIGN, 9" x 15"	EACH	4		1	
	R10-3e(R) SIGN, 9" x 15"	EACH	2		2		
POWER SUPPLY		SIGNAL CONTROL CABINET	EACH	1		1	
		POWER SUPPLY - FURNISH AND INSTALL METER SOCKET	EACH	1		1	

GENERAL NOTES:

- ALL QUANTITIES SHOWN IN THE TRAFFIC SIGNAL PLANS AND SPECIFICATIONS ARE FOR INFORMATIONAL AND ESTIMATING PURPOSES ONLY. THE CONTRACTOR'S LUMP SUM BID SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIAL NECESSARY TO PROVIDE A COMPLETE AND FUNCTIONAL TRAFFIC SIGNAL INSTALLATION IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS.
- PROVIDE TRAFFIC CONTROL DEVICES AS REQUIRED TO FACILITATE CONSTRUCTION OF TRAFFIC SIGNALS IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AS ADOPTED BY THE IOWA DEPARTMENT OF TRANSPORTATION PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC), CHAPTER 130.
- TRAFFIC SIGNALS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 2015 IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION AND CITY OF IOWA CITY SUPPLEMENTAL SPECIFICATIONS, EXCEPT AS MODIFIED BY THE PLANS.
- THE PLAN LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION ON THE PROJECT TO ESTABLISH LOCATIONS.
- ROADWAY GEOMETRICS REPRESENT PROPOSED FEATURES. SIGNAL POLE FOOTINGS AND HANDHOLES SHALL MATCH PROPOSED FINISHED ELEVATIONS.
- ALL SIGNAL INDICATIONS SHALL BE LIGHT-EMITTING DIODE (LED) IN ACCORDANCE WITH MOST RECENT INSTITUTE OF TRANSPORTATION ENGINEERS (ITE) SPECIFICATIONS.
- THE LOCATIONS OF ALL HANDHOLES ARE APPROXIMATE ONLY AND ARE SUBJECT TO ADJUSTMENT IN THE FIELD BY THE ENGINEER. OBTAIN ENGINEER'S APPROVAL PRIOR TO PLACING HANDHOLES AND CONSTRUCTING FOOTINGS. ALL POLYCONCRETE HANDHOLE LIDS SHALL BE HEAVY DUTY.
- INSTALL PEDESTRIAN PUSHBUTTON SIGN ABOVE EACH PEDESTRIAN PUSHBUTTON. PUSH BUTTON FRAME EXTENDER SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS.
- INSTALL ONE SIGNAL CABLE FROM EACH SIGNAL HEAD TO THE BASE OF THE POLE. A 7-CONDUCTOR CABLE SHALL BE USED IN THE POLES FOR 5-SECTION AND 4-SECTION VEHICLE SIGNAL HEADS AND A 4-CONDUCTOR CABLE SHALL BE USED IN THE POLES FOR 3-SECTION VEHICLE HEADS AND PEDESTRIAN SIGNAL HEADS. ALL SIGNAL CABLE SHALL BE #14 AWG UNLESS OTHERWISE NOTED ON THE PLANS. A 9-CONDUCTOR CABLE SHALL BE RUN TO THE BASE OF THE MAST ARM POLE FOR ALL PEDESTRIAN SIGNAL HEADS AND PUSH BUTTONS IN THAT QUADRANT OF THE INTERSECTION. 2-CONDUCTOR CABLE SHALL BE SPLICED OFF THE 9-CONDUCTOR FOR EACH PUSH BUTTON AND A 4-CONDUCTOR FOR EACH PEDESTRIAN SIGNAL HEAD IN THAT QUADRANT EVEN IF LOCATED ON A DIFFERENT POLE.
- INSTALL A #6 AWG BARE COPPER GROUND WIRE BETWEEN THE GROUND RODS IN THE SIGNAL FOOTINGS AND CONTROLLER CABINET TO FORM A CONTINUOUSLY GROUNDED SYSTEM.
- ALL CONDUIT SHALL BE HDPE CONDUIT, SDR 13.5. CONTINUOUS CONDUIT RUNS TO BE INSTALLED WITH DIRECTIONAL BORING EQUIPMENT. LOCATIONS TO BE APPROVED BY ENGINEER.
- PLACE NEW SIGNAL CABINET, CONTROLLER, AND CABINET ACCESSORIES AT THE LOCATION SHOWN ON PLANS. PROVIDE ALL-WAY STOP CONTROL WHEN SIGNAL IS NOT IN OPERATION, SIGNAL SHALL NOT BE SHUT DOWN FOR MORE THAN FOUR (4) HOURS WHILE TRANSITIONING TO TEMPORARY OR NEW CONTROL. UTILIZE EXISTING TIMING AND PHASING UNLESS DIRECTED OTHERWISE BY ENGINEER WITH COORDINATION TIMINGS. TURN OVER EXISTING CABINET AND CONTROLLER TO ENGINEERING DEPARTMENT WHEN THE NEW CONTROLLER IS IN SERVICE.
- SERVICE LOCATION IS APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR COORDINATING POWER SERVICE LOCATION FROM NEW TRANSFORMER.
- UNLESS OTHERWISE DIRECTED, TRAFFIC SIGNAL HEADS ON MAST ARMS ARE TO BE ALIGNED OVER THE CENTER OF THE APPROACH LANES. APPROXIMATE LOCATIONS ARE AS SHOWN IN THE TRAFFIC PLANS. CONTRACTOR SHALL FIELD VERIFY SIGNAL HEAD LOCATIONS.
- ALL PEDESTRIAN SIGNAL INDICATIONS SHALL BE 2-SECTION LED TYPE LAMPS WITH COUNT DOWN DISPLAY AND FILLED HAND AND PERSON SYMBOLS.
- PROPOSED INTERSECTION LIGHTING SHOWN FOR REFERENCE. FOR PROPOSED LIGHTING DETAILS, REFER TO P-SERIES SHEETS.
- CABLES SHALL BE INSTALLED WITH PULL ROPE IN PROPOSED ELECTRICAL CONDUITS.
- TRAFFIC SIGNAL POLES AND COMBINATION SIGNAL/LUMINAIRE MAST ARM SHALL BE GALVANIZED STEEL FINISH. SEE SPECIAL PROVISION FOR TRAFFIC SIGNALIZATION FOR ADDITIONAL INFORMATION.**

LEGEND	
	TRAFFIC SIGNAL HEAD W/ BACKPLATE
	PEDESTRIAN HEAD
	MAST ARM AND BASE
	PEDESTAL
	CONTROLLER
	CONCRETE COMPOSITE HANDHOLE
	VEHICLE DETECTION ZONE
	ACCESSIBLE PEDESTRIAN PUSH BUTTON
	PUSH BUTTON FRAME EXTENDER
	TRAFFIC SIGNAL CONDUIT
	LUMINAIRE
	SIGN MOUNT
	VIDEO DETECTION CAMERA
	PAN, TILT, & ZOOM CAMERA
	SERVICE ORIGIN
	EXISTING TRAFFIC SIGNAL HEAD W/ BACKPLATE
	EXISTING VIDEO DETECTION CAMERA
	EXISTING PUSH BUTTON



LICENSSED PROFESSIONAL ENGINEER
LANE E. INGRAM
17368
IOWA

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

Date **03/30/16**

Signature Lane E. Ingram
Printed or Typed Name

My license renewal date is December 31, 20 16

Pages or sheets covered by this seal: N.1-N.13

General Notes and Quantities