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<u>ш</u> г		INDEX OF SHEETS							
	No.	DESCRIPTION							
	A Sheets	Title Sheets							
9 <u>0</u>	A.1	Title Sheet							
	B Sheets	Typical Cross Sections and Details							
	B.1 C Shoots	Typical Cross Sections and Details				CDAAAAA			
		Project Description	FLA I	UNING	FRU	GRAMM	ING	AND	
	C.1 - 2	Estimated Project Quantities					N I		
	C.2 - 3	Estimate Reference Information			JUAL	DIVISIO	IN		5
	C.3	Standard Road Plans Index of Tabulations		PLANS	OF PROPOSED	D IMPROVEMENT ON	THE		
	C.4 - 5	Pollution Prevention Plan							
	C.6 - 7	Tabulations			KY K(UAD SY	SIEM		
	D Sheets	Mainline Plan and Profile Sheets							
	* D.1 * D.2	Site Plan							
	* D.3	Removals		ID) IL					
	* D.4 - 9	Plan & Profile Sheets							
	G Sheets	Survey Sheets		WATER	TRAT	I FACTI 1	TIFS		
	1 Sheets	Traffic Control and Staging Shoots							
၂ လ ၂ ၂	[*] J.1 - 2	Traffic Control Plan & Notes		RECREA		RATI ENHANCEM	FNTS		
പറ	L Sheets	Geometric, Staking and Jointing Sheets		PCC SIC	DEWALK/TR	AIL. MISCELLAN	IEOUS		
Ω Ω	L.1 - 2	Driveway Staking & Jointing			SCALE	S: As Noted			
	L.3 - 4	Parking Lot Staking & Jointing					(
	L.5 L.6 - 7	River Road Trail Staking & Jointing		Refer to t	the Proposal Form for	· list of applicable specification	15.		
	Ľ.8	Jointing Notes and Details							
	M Sheets	Storm Sewer Sheets		Value Enginee	ering Saves. Refer to	o Article 1105.15 of the Specif	ications.	1 000 000 0000	ണ
	M.1 M 2	Storm & Sanitary Sewer Plan						1-000-235-0303	ng ut at a b slow.
	M.3	Storm & Sanitary Sewer Quantities							G&II belore you dig.
	N Sheets	Paint Markings Sheets		I NO	MILEA	GE SUMMAF	RYI		
	N.1 - 2	Parking Markings Layout Sheets							
	P Sheets	Lighting Layout Sheets		This are last	to converd by the Te				
	* P.1 - 3	Lighting Layout Sheets		NPDES Genera	al Permit No. 2. The	va Department of Natural Reso contractor shall carry out the	urces terms		
	K Sneets	Landscaping Sneets	2	and condition	ons of General Permit	t No. 2 and the storm water pol	lution		
	R.2	Landscaping Details		Section 2602	2 of the Standard Spe	cifications for additional infor	mation.		
	RR Sheets	Erosion Control							
1	RR.1 - 2	Erosion Control Device Sheets		Ints project I	epartment of Natural F	Resources Flood Plain Development	nt		
	U Sheets	500 Series, Mod.Stds. and Detail Sheets		Iova De	Permit No. partment of Natural F	. 2021-0480FP-01 Resources Sovereign Lands Const	nuction		
	* U.1 - 5	500 Series, Modified Standards and Detail Sheets	9	11.5 4	Permit No.	. 2021-0480SL-01	E		
	W.1	Cross Sections Legend & Symbol Information Sheet		U.S. Arr	my Corps of Engineers	Permit No. 408-MVR-2021-0008	10		
1	W.2 - 4	Kayak Trail Cross Sections							
		* Color Dire Sheets							
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			Å			SHEET NO.	NAME	TYP	E
			Λ			A.1	Larry Wi	ele Primary Signa	iture Block
						R.1	Mark Kui	per Landscape /	Architect
		* ~ ~ ~ ~ ~ ~ ~ // // //	T						
			Ψ						
		LOCATION MAP SCALE	A l						
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С	ENGLISH IOWA DOT DES	SIGN TEAM AECOM				BLACK HAWK	OUNTY PROJECT		U-8155(7

11:28:56 AM 9/21/2021 tyler.gamerdimgerlaecom-na-pw.bentley.com:AECOM_DS21_NA_2020\Documents\60608131-Cedar River Marina District\900-CAD GIS\TAP-U-8155(768)--8I-07\02-SHEETS\SHT_Marina_TAP_A01.sht

EVISIONS	TOTAL
	50
	PROJECT IDENTIFICATION NUMBER
	TAP-U-8155(768)8I-Ø7
	PROJECT NUMBER
	R.O.W. PROJECT NUMBER

C	EITY OF WATERLOC	Han 7/21/21 ENGINEER DATE
	Pages or sheets covered	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. Signature LARRY E. WIELE Printed or Typed Name My license renewal date is December 31, 2021 by this seal: <u>ALL SHEETS EXCEPT R-SHEETS</u>
76	8)8I - Ø7	SHEET NUMBER A.1



AECOM - 2

AECOM - 4

BEGIN STATION	END STATION
100+00.00	100+18.45

REMOVE RIPRAP AS NECESSARY

	BEGIN STATION	END STATION	WALL HEIGHT
F	100+18.45	101+00.00	0' - 4'
Γ	101+00.00	103+85.00	4'
L	103+85.00	104+08.70	4' - 0'

TYPICAL KAYAK 11' SHARED USE PATH WITH COMBINED RETAINING WALL (SEE SHEET U.4)

			AECOM - 6
	MATER HEIGHT = 841.00+/-)	ting Ground —	1-
CAVATION		BEGIN STATION	END STATION
		1000+00.00	1003+42.00
8)8I-Ø7	SHEET NUMBER B.1		

100-1D 10-18-05

PROJECT DESCRIPTION

Waterloo, Iowa Marina site development and River Road Trail infill.

ESTIMATED PROJECT QUANTITIES (UP TO A 5 DIVISION PROJECT)

Division 1: Participating Division 2: Non-Participating

Quantities Item Item No. Item Code Unit Estimated Division 1 Division 2 Division 3 Division 4 Division 5 Total 2101-0850001 CLEARING AND GRUBBING ACRE 0.2 0.2 2102-0425071 SPECIAL BACKFILL CY 780.0 780.0 EXCAVATION, CLASS 10, WASTE EXCAVATION, CLASS 13, CHANNEL 2102-2710090 CY 390.0 390.0 2104-2713020 CY 2500.0 2500.0 TOPSOIL, FURNISH AND SPREAD 2105-8425005 CY 700.0 700.0 SUBGRADE STABILIZATION MATERIAL, POLYMERGRID 2113-0001100 SY 1778.0 1778.0 CY 22.0 2115-0100000 MODIFIED SUBBASE 401.0 423.0 SHOULDER FINISHING, EARTH 2123-7450020 STA 5.68 5.68 STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT 2301-1033060 SY 860.5 860.5 CLASS C, CLASS 3 DURABILITY, 6 IN. STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, SY 2301-1033080 355.9 10 355.9 CLASS C, CLASS 3 DURABILITY, 8 IN. HOT MIX ASPHALT STANDARD TRAFFIC, BASE COURSE, 1/2 IN. MIX 2303-1131500 SV 435 Ø 435 0 2303-1133500 HOT MIX ASPHALT STANDARD TRAFFIC, SURFACE COURSE, 12 SY 435.0 435.0 1/2 IN. MIX, NO SPECIAL FRICTION REQUIREMENT SY 212.0 2304-0101000 13 TEMPORARY PAVEMENT 212.0 GRANULAR SURFACING ON ROAD, CLASS A CRUSHED STONE 150.0 14 2312-8260050 CY 150.0 REMOVAL OF CONCRETE FOOTINGS OF LIGHT POLES FACH 15 2401-6745356 16 2401-6745910 REMOVAL OF SIGN FACH 15 15 2402-0425031 GRANULAR BACKFILL TON 180 0 180 0 17 STRUCTURAL CONCRETE (MISCELLANEOUS) CY 18 2403-0100000 309.4 309.4 19 2404-7775000 REINFORCING STEEL LB 26817 26817 STEEL PIPE PEDESTRIAN HANDRAILS 20 2414-6444100 I F 37 37 MANHOLE, SANITARY SEWER, SW-301, 48 IN. 21 2435-0130148 FACH 2 2 22 2435-0140148 MANHOLE, STORM SEWER, SW-401, 48 IN. EACH 23 2435-0250700 INTAKE, SW-507 EACH 24 2435-0600010 MANHOLE ADJUSTMENT, MINOR EACH 2435-0600020 MANHOLE ADJUSTMENT, MAJOR EACH 25 26 2435-0700010 CONNECTION TO EXISTING MANHOLE EACH 1 2503-0114215 STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE 175.0 27 LF 175.0 PIPE (RCP), 2000D (CLASS III), 15 IN. 2504-0114008 SANITARY SEWER GRAVITY MAIN, TRENCHED, POLYVINYL CHLORIDE LF 200.0 28 200.0 PIPE (PVC), 8 IN. SY 2507-3250005 ENGINEERING FABRIC 1308.7 1308.7 29 30 2507-6800061 REVETMENT, CLASS E TON 1200.0 1200.0 2510-6745850 REMOVAL OF PAVEMENT SY 3930.0 3930.0 2510-6750600 REMOVAL OF INTAKES AND UTILITY ACCESSES EACH 2 2511-0302600 RECREATIONAL TRAIL, PORTLAND CEMENT CONCRETE, 6 IN 505.6 505.6 33 SY 34 2511-0302800 RECREATIONAL TRAIL, PORTLAND CEMENT CONCRETE, 8 IN. SY 44.4 44.4 2511-6745900 REMOVAL OF SIDEWALK 409.0 35 SY 409.0 2516-8625000 COMBINED CONCRETE SIDEWALK AND RETAINING WALL 234.4 CY 234.4 2523-0000100 LIGHTING POLES, TYPE 1 EACH 2523-0000100 LIGHTING POLES, TYPE 2 EACH 38 39 2523-0000200 ELECTRICAL CIRCUITS LF 1311.0 1311.0 40 2523-0000310 HANDHOLES AND JUNCTION BOXES EACH 2524-9276010 PERFORATED SQUARE STEEL TUBE POSTS 28.5 28.5 41 2524-9276027 PERFORATED SQUARE STEEL TUBE POST ANCHOR, TRIANGULAR SLIP EACH 42 4 BASE ASSEMBLY TYPE A SIGNS, SHEET ALUMINUM SF 19 43 2524-9325001 19 PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED 44 2527-9263109 STA 41 41.00 45 2527-9263180 PAVEMENT MARKINGS REMOVED STA 8.53 8.53 2528-2518182 PERMANENT ROAD CLOSURE, URBAN, SI-182 EACH 46 2528-8445110 47 TRAFFIC CONTROL LS 0.95 0.05 1.00 48 2533-4980005 MOBILIZATION LS 0.95 0.05 1.00 'EACH' ITEM) BUMPER PADS 49 2599-9999005 EACH 12 12 'EACH' ITEM) KAYAK LAUNCH SYSTEM 2599-9999005 EACH 'EACH' ITEM) LITTER RECEPTACLE 2599-9999005 EACH 51 52 2599-9999005 'EACH' ITEM) STAINLESS STEEL DOCK CLEATS EACH 12 12 'EACH' ITEM) STEEL BENCH SEATING ASSEMBLIES 2599-9999005 EACH 53 54 2599-9999010 'LUMP SUM' ITEM) SITE SPECIFIC MATERIALS MANAGEMENT PLAN LS 1.0 1.00 'SQUARE YARDS' ITEM) COLORED, TOOLED PORTLAND CEMENT CONCRETE, SY 55 2599-9999018 551.3 551.3 DARK GREY 2599-9999018 ('SQUARE YARDS' ITEM) COLORED, TOOLED PORTLAND CEMENT CONCRETE, TAN SY 89.8 89.8 56 'SQUARE YARDS' ITEM) POROUS PAVEMENT 2599-9999018 93.3 57 SY 93.3 'TONS' ITEM) OFFSITE DISPOSAL OF CONTAMINATED SOILS 2599-9999020 TON 58 25.0 25.0 59 MULCHING, BONDED FIBER MATRIX ACRE 2601-2634105 1.0 1.0 2601-2636044 SEEDING AND FERTILIZING (URBAN) ACRE 1.0 60 1.0 2601-2642120 STABILIZING CROP - SEEDING AND FERTILIZING (URBAN) ACRE 1.0 61 1.0 PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA 2602-0000312 835.0 835.0 62 LF REMOVAL OF PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE LF 2602-0000350 835.0 63 835.0 2602-0000500 OPEN-THROAT CURB INTAKE SEDIMENT FILTER LF 64 60.0 60.0 2602-0000510 MAINTENANCE OF OPEN-THROAT CURB INTAKE SEDIMENT FILTER EACH BLACK HAWK COUNTY PROJECT NUMBER TAP-U-8155(774 ENGLISH DESIGN TEAM AECOM FILE NO.

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100-10 04-17-12

Division 1	Division ?	As Built Division 2	Division 4	Division 5
1	JUI 2			_,
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		<u></u>		
1) 07 0		EET NUMBER	<u> </u>	
+)81-6	77 SH	EEI NUMBER	U.1	

ESTIMATED PROJECT QUANTITIES

Division 1: Participating

Division 2	2:	Non-Participating
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(UP TO A 5 DIVISION PR	OJECT)	
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			Quantities								
Item No.	Item Code	Item	Unit		Estim	nated			As Buil	t	
			Division 1	Division 2	Division 3	Division 4 Division 5	Total	Division 1	Division 2 Division	3 Division 4	Division 5
66	2602-0000520	REMOVAL OF OPEN-THROAT CURB INTAKE SEDIMENT FILTER	EACH 6				6				
67	2602-0000530	GRATE INTAKE SEDIMENT FILTER BAG	EACH 5				5				
68	2602-0000540	MAINTENANCE OF GRATE INTAKE SEDIMENT FILTER BAG	EACH 5				5				
69	2602-0000550	REMOVAL OF GRATE INTAKE SEDIMENT FILTER BAG	EACH 5				5				
70	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH 5				5				
71	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH 1				1				
72	2610-0000120	TREES AUTUMN BLAZE MAPLE, 2.5" CAL. B&B, TYPE 1 PLANTING	EACH 5				5				
73	2610-0000120	TREES PRINCETON AMERICAN ELM, 2.5" CAL. B&B, TYPE 2 PLANTING	EACH 12				12				
74	2610-0000120	TREES SWAMP WHITE OAK, 2.5" CAL. B&B, TYPE 1 PLANTING	EACH 6				6				
75	2610-0000400	WATERING FOR PLANTS	MGAL 7.0				7.00				
			100	-4A							100-4A
			10-2	9-02							10-29-02
						ECTTN					
		ESTIMATE REFERENCE INFORMATION				ESIIMA	AIE KEFEKEI	NCE INFO	RMAILON		
Item No.	Item Code	Description		Item No.	Item Code			Descript	tion		
1	2101-0850001	CLEARING AND GRUBBING									
_		Refer to D.5 for location.									
-	-	-									
2	2102-0425071	SPECTAL BACKETLL									
	2102 0425071	Special backfill is for replacement of Contaminated Soil and Class 10 waste Expe	cted waste from								
		Sanitary - 352 (V Storm - 297 (V Lights - 38 (V Davement - 93 (V									
3	2102-2710090	EXCAVATION CLASS 10 WASTE									
	2102-2710090	Class 10 Waste from ton soil nemoval thee installation light base storm seven a	nd canitany	15	2401-6745356	REMOVAL OF CONCRETE FOOT					
		excavation Assumes half of all material nerval car he disposed of hy Contractor	hy normal methods	- 15	2401-0745550	A Refer to Tabulation 11	0_{-16} for details	Footing holes a	hall be backfilled within	24 hours often	
		Exclavation, Assumes half of all material removal can be disposed of by contractor	mont Dlan			A. Refer to Tabulation in	footing chall be	nomeword	Shall be backfilled within	24 11001 3 81 (81	
		Remaining half to be disposed of in accordance with site specific materials manage				P Mothod of Moscupoment:	The number of lig	ht nole footing	a nomeword will be counted		
	-					B. Method of Measurement.	and light polo fo	nt pore rooting	s removed will be counted	· d the contract uni	+
4	2104-2713020	EXCAVAIION, CLASS IS, CHANNEL	he discussed of her			C. Basis of Payment: For	each light pole to	oting removed t	the contractor will be pai	a the contract uni	τ
		Refer to B-Sneets and D.5 for locations and details. All material excavated shall	be disposed of by			price.					
		contractor offsite.		-	-						
-	-			10	2401-6745910	REMOVAL OF SIGN					
5	2105-8425005	TOPSOIL, FURNISH AND SPREAD	that is for all			See D.3 for locations					
		Item is for 6 topsoil where seeding is necessary. Contractor to supply a material	that is free of all	-	-						
		clous, lumps, roots and other undestrable material.		1/	2402-0425031	GRANULAR BACKFILL					
-	-					Granular backfill for doc	k area shall meet	gradation 13A.			
6	2113-0001100	SUBGRADE STABILIZATION MATERIAL, POLYMERGRID		-	-	-					
		Geogrid to be placed below all PCC and HMA pavement, including temporary pavement.	Geogrid shall be Tensar	18-19	2403-0100000	STRUCTURAL CONCRETE (MISC	ELLANEOUS)				
		TX140, Alliance Gator Grid GG50-50, Tencate Mirati BXG110 or approved equivalent.			2404-7775000	REINFORCING STEEL					
-	-	-				See D.5 and U-Sheets for	location and detai	Is. Structural	Concrete is for all concr	ete for the kayak,	
7	2115-0100000	MODIFIED SUBBASE				boat dock, and concrete s	teps. Reinforcing	Steel shall be	Grade 60 and is for combi	ned sidewalk/retai	ning
		Item is for 4" subbase under all colored sidewalk, temporary paving, and trail and	6" subbase under			wall, dock concrete and o	oncrete steps. Cer	titied plant in	spection shall be require	d as specified in	
		driveway and parking lot paving.				Section 2521 of the IDOT	Standard Specifica	tions. Use Clas	s 3 Durability Aggregate.		
	-	-		- 11	-	-					
8	2123-7/50020						DDATIC				I
	2125 7450020	SHOULDER FINISHING, EARTH		20	2414-6444100	STEEL PIPE PEDESTRIAN HAN	DRAILS				
-	2125 7450020	SHOULDER FINISHING, EARTH		20	2414-6444100	STEEL PIPE PEDESTRIAN HAN See U.5 for details.	DRAILS				
	-	SHOULDER FINISHING, EARTH		20	2414-6444100	STEEL PIPE PEDESTRIAN HAN See U.5 for details.	DRAILS				
9-10	- 2301-1033060	SHOULDER FINISHING, EARTH - - STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURAB	ILITY, 6 IN.	20	2414-6444100 - 2435-0130148	STEEL PIPE PEDESTRIAN HAN See U.5 for details. - MANHOLE, SANITARY SEWER,	SW-301, 48 IN.				
9-10	- 2301-1033060 2301-1033080	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURAB STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURAB	ILITY, 6 IN. ILITY, 8 IN.	20 21 22	2414-6444100 - 2435-0130148 2435-0140148	STEEL PIPE PEDESTRIAN HAN See U.5 for details. - MANHOLE, SANITARY SEWER, MANHOLE, STORM SEWER, SW-	SW-301, 48 IN. 401, 48 IN.				
9-10		- - STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURAB STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURAB See B-Sheets for details and locations. Certified plant inspection shall be requir	ILITY, 6 IN. ILITY, 8 IN. ed as specified in	20 21 22 23	2414-6444100 - 2435-0130148 2435-0140148 2435-0250700	STEEL PIPE PEDESTRIAN HAN See U.5 for details. - MANHOLE, SANITARY SEWER, MANHOLE, STORM SEWER, SW- INTAKE, SW-507	SW-301, 48 IN. 401, 48 IN.				
9-10		- - STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURAB STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURAB See B-Sheets for details and locations. Certified plant inspection shall be requir Section 2521 of the IDOT Standard Specifications. Use Class 3 Durability Aggregate	ILITY, 6 IN. ILITY, 8 IN. ed as specified in	20 21 22 23 24	2414-6444100 - 2435-0130148 2435-0140148 2435-0250700 2435-0600010	STEEL PIPE PEDESTRIAN HAN See U.5 for details. - MANHOLE, SANITARY SEWER, MANHOLE, STORM SEWER, SW- INTAKE, SW-507 MANHOLE ADJUSTMENT, MINOF	SW-301, 48 IN. 401, 48 IN.				
9-10		- - STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURAB STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURAB See B-Sheets for details and locations. Certified plant inspection shall be requir Section 2521 of the IDOT Standard Specifications. Use Class 3 Durability Aggregate -	ILITY, 6 IN. ILITY, 8 IN. ed as specified in	20 21 22 23 24	2414-644100 - 2435-0130148 2435-0140148 2435-0250700 2435-0600010	STEEL PIPE PEDESTRIAN HAN See U.5 for details. - MANHOLE, SANITARY SEWER, MANHOLE, STORM SEWER, SW- INTAKE, SW-507 MANHOLE ADJUSTMENT, MINOR For adjustment of manhole	SW-301, 48 IN. 401, 48 IN. at 503+80.				
9-10 	2301-1033060 2301-1033080 2303-1131500	- - STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURAB STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURAB See B-Sheets for details and locations. Certified plant inspection shall be requir Section 2521 of the IDOT Standard Specifications. Use Class 3 Durability Aggregate - HOT MIX ASPHALT STANDARD TRAFFIC, BASE COURSE, 1/2 IN. MIX	ILITY, 6 IN. ILITY, 8 IN. ed as specified in	20 21 22 23 24 -	2414-6444100 - 2435-0130148 2435-0140148 2435-0250700 2435-0600010 -	STEEL PIPE PEDESTRIAN HAN See U.5 for details. - MANHOLE, SANITARY SEWER, MANHOLE, STORM SEWER, SW- INTAKE, SW-507 MANHOLE ADJUSTMENT, MINOF For adjustment of manhole -	SW-301, 48 IN. 401, 48 IN. at 503+80.				
9-10	2301-1033060 2301-1033080 - - 2303-1131500 2303-1133500		ILITY, 6 IN. ILITY, 8 IN. ed as specified in L FRICTION REQUIREMENT	20 21 22 23 24 - 25	2414-644100 - 2435-0130148 2435-0140148 2435-0250700 2435-0600010 - 2435-0600020	STEEL PIPE PEDESTRIAN HAN See U.5 for details. - MANHOLE, SANITARY SEWER, SW- INTAKE, SW-507 MANHOLE ADJUSTMENT, MINOF For adjustment of manhole - MANHOLE ADJUSTMENT, MAJOF	SW-301, 48 IN. 401, 48 IN. at 503+80.				
	2301-1033060 2301-1033080 2303-1133500 2303-1133500		ILITY, 6 IN. ILITY, 8 IN. ed as specified in L FRICTION REQUIREMENT o Commercial Street.	20 21 22 23 24 - 25	2414-644100 - 2435-0130148 2435-0140148 2435-0250700 2435-0600010 - 2435-0600020	STEEL PIPE PEDESTRIAN HAN See U.5 for details. - MANHOLE, SANITARY SEWER, MANHOLE, STORM SEWER, SW- INTAKE, SW-507 MANHOLE ADJUSTMENT, MINOF For adjustment of manhole - MANHOLE ADJUSTMENT, MAJOF For adjustment of intake	SW-301, 48 IN. 401, 48 IN. at 503+80. at 201+40 with man	hole top.			
9-10 	2301-1033060 2301-1033080 2303-1131500 2303-1133500	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURAB STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURAB See B-Sheets for details and locations. Certified plant inspection shall be requir Section 2521 of the IDOT Standard Specifications. Use Class 3 Durability Aggregate - HOT MIX ASPHALT STANDARD TRAFFIC, BASE COURSE, 1/2 IN. MIX HOT MIX ASPHALT STANDARD TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, NO SPECIA Item is for the 6" HMA infill for the old River Road median removal and driveway t Base course - 4 IN. Surface course - 2 IN. Certified plant inspection shall be req	ILITY, 6 IN. ILITY, 8 IN. ed as specified in L FRICTION REQUIREMENT o Commercial Street. uired as specified in	20 21 22 23 24 - - -	2414-644100 - 2435-0130148 2435-0250700 2435-0600010 - 2435-0600020	STEEL PIPE PEDESTRIAN HAN See U.5 for details. - MANHOLE, SANITARY SEWER, SW- INTAKE, SW-507 MANHOLE ADJUSTMENT, MINOF For adjustment of manhole - MANHOLE ADJUSTMENT, MAJOF For adjustment of intake -	SW-301, 48 IN. 401, 48 IN. at 503+80. at 201+40 with man	hole top.			
	2301-1033060 2301-1033080 2303-1131500 2303-1133500	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURAB STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURAB See B-Sheets for details and locations. Certified plant inspection shall be requir Section 2521 of the IDOT Standard Specifications. Use Class 3 Durability Aggregate - HOT MIX ASPHALT STANDARD TRAFFIC, BASE COURSE, 1/2 IN. MIX HOT MIX ASPHALT STANDARD TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, NO SPECIA Item is for the 6" HMA infill for the old River Road median removal and driveway t Base course - 4 IN. Surface course - 2 IN. Certified plant inspection shall be req Section 2521 of the IDOT Standard Specifications.	ILITY, 6 IN. ILITY, 8 IN. ed as specified in L FRICTION REQUIREMENT o Commercial Street. uired as specified in	20 21 22 23 24 - 25 - 25 - 26	2414-644100 - 2435-0130148 2435-0140148 2435-0250700 2435-0600010 - 2435-0600020 - 2435-0700010	STEEL PIPE PEDESTRIAN HAN See U.5 for details. - MANHOLE, SANITARY SEWER, SW- INTAKE, SW-507 MANHOLE ADJUSTMENT, MINOF For adjustment of manhole - MANHOLE ADJUSTMENT, MAJOF For adjustment of intake - CONNECTION TO EXISTING MA	SW-301, 48 IN. 401, 48 IN. at 503+80. at 201+40 with man NHOLE	hole top.			
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	2301-1033060 2301-1033080 2301-1033080 2303-1131500 2303-1133500 2303-1133500 2304-0101000 2304-0101000	SHOULDER FINISHING, EARTH STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURAB STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURAB See B-Sheets for details and locations. Certified plant inspection shall be requir Section 2521 of the IDOT Standard Specifications. Use Class 3 Durability Aggregate - HOT MIX ASPHALT STANDARD TRAFFIC, BASE COURSE, 1/2 IN. MIX HOT MIX ASPHALT STANDARD TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, NO SPECIA Item is for the 6" HMA infill for the old River Road median removal and driveway t Base course - 4 IN. Surface course - 2 IN. Certified plant inspection shall be req Section 2521 of the IDOT Standard Specifications TEMPORARY PAVEMENT See D-Sheets & L-sheets for locations and details. Shall be 6" HMA pavement. Certified plant inspection shall be required as specified in Section 2521 of the I GRANULAR SURFACING ON ROAD, CLASS A CRUSHED STONE Item is for rock between proposed pavement and existing pavement to make up grade two. See-D-Sheets for locations. Item is also for placement in riprap areas adjace on Detail AECOM-4	ILITY, 6 IN. ILITY, 8 IN. ed as specified in L FRICTION REQUIREMENT o Commercial Street. uired as specified in DOT Standard Specification difference between the nt to trail as shown	20 21 22 23 24 - 25 - 26 - - 27 5. 28 - 29 30	2414-644100 - 2435-0130148 2435-0250700 2435-0600010 - 2435-0600020 - 2435-0600020 - 2435-0700010 - 2503-0114215 2504-0114008 - 2507-3250005 2507-6800061	STEEL PIPE PEDESTRIAN HAM See U.5 for details. - MANHOLE, SANITARY SEWER, SW- INTAKE, SW-507 MANHOLE ADJUSTMENT, MINOF For adjustment of manhole - MANHOLE ADJUSTMENT, MAJOF For adjustment of intake - CONNECTION TO EXISTING MA Item is for connection to - STORM SEWER GRAVITY MAIN, SANITARY SEWER GRAVITY MA See M-Sheets for location - ENGINEERING FABRIC REVETMENT, CLASS E See D.5 for locations. Sh used.	SW-301, 48 IN. 401, 48 IN. at 503+80. at 201+40 with man NHOLE existing sanitary TRENCHED, REINFOR IN, TRENCHED, POLY s and details. all be placed on s	hole top. manhole. CED CONCRETE VINYL CHLORIDE lopes of channe	PIPE (RCP), 2000D (CLAS PIPE (PVC), 8 IN. el excavation. No recycled	5 III), 15 IN. concrete shall be	

ENGLISH DESIGN TEAM AECOM

FILE NO.

BLACK HAWK COUNTY PROJECT NUMBER TAP-U-8155(774

Description	
ing holes shall be bac	ckfilled within 24 hours after
ole footings removed w	vill be counted.
g removed the Contract	cor will be paid the contract unit
ation 13A.	
Structural Concrete is	s for all concrete for the kayak,
I SHUII DE GLUUE DO UN	ia is for combined stacwark/recutining
ed plant inspection sh	nall be required as specified in
ed plant inspection sh s. Use Class 3 Durabil	all be required as specified in
ed plant inspection sh s. Use Class 3 Durabil	nall be required as specified in Lity Aggregate.
ed plant inspection sh 5. Use Class 3 Durabil	all be required as specified in Lity Aggregate.
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ed plant inspection sh s. Use Class 3 Durabil top. hole. CONCRETE PIPE (RCP L CHLORIDE PIPE (PVC	<pre>>>), 2000D (CLASS III), 15 IN. >>), 8 IN.</pre>
ed plant inspection sh s. Use Class 3 Durabil top. top. Dole. CONCRETE PIPE (RCP CHLORIDE PIPE (PVC s of channel excavatio	<pre>P), 2000D (CLASS III), 15 IN. D), 8 IN.</pre>

		ESTIMATE REFERENCE INFORMATION	"		ESTIMATE REFERENC
Item No.	Item Code	Description	Item No.	Item Code	
31	2510-6745850	REMOVAL OF PAVEMENT See D.3 for locations. Existing pavement consists of variable thickness (6-12") PCC, 3-4" HMA and 6-12" PCC with 3-4" HMA overlay.	58	2599-9999020	('TONS' ITEM) OFFSITE DISPOSAL OF CONTAMINATED Items is for removal and proper disposal of cor Materials Management Plan. Refer to Special Pro
-	-	-	-	-	-
32	2510-6750600	REMOVAL OF INTAKES AND UTILITY ACCESSES See D.3 for locations			
	-				
33-34	2511-0302600 2511-0302800	RECREATIONAL TRAIL, PORTLAND CEMENT CONCRETE, 6 IN. RECREATIONAL TRAIL, PORTLAND CEMENT CONCRETE, 8 IN. Certified plant inspection shall be required as specified in Section 2521 of the IDOT Standard Specifications Use Class 3 Durability Aggregate			
- 35	- 2511-6745900	REMOVAL OF SIDEWALK	59	2601-2634105	MULCHING, BONDED FIBER MATRIX A. A Bonded Fiber Matrix shall be applied as th
	-	See D.3 for locations. Existing sidewalk is nominal 4" PCC. -	_		Fertilizing (Urban)" and in other areas prior t B. Bonded Fiber Matrix will not be applied imme
36	2516-8625000	COMBINED CONCRETE SIDEWALK AND RETAINING WALL See B, D, and U-Sheets for locations and details. Certified plant inspection shall be required as specified in Section 2521 of the IDOT Standard Specifications. Use Class 3 Durability Aggregate.			C. The seed and fertilizer for the area to be a Hydraulic Mulch application.D. Application rate shall be a minimum of 300 1
- 37-40	- 2523-0000100	- LIGHTING POLES, TYPE 1	_		E. Method of Measurement. The area of mulching F. Basis of Payment. For each acre measured, th
	2523-0000100 2523-0000200	LIGHTING POLES, TYPE 2 ELECTRICAL CIRCUITS		-	be considered full compensation for all tools,
	2523-0000310	HANDHOLES AND JUNCTION BOXES See P-Sheets for locations and details			
-	-		60	2601-2636044	SEEDING AND FERTILIZING (URBAN)
41-40	2524-9276010	PERFORATED SQUARE STEEL TUBE POSTS PERFORATED SQUARE STEEL TUBE POST ANCHOR, TRIANGULAR SLIP BASE ASSEMBLY			Engineer, shall be hydroseeded with urban seed
	2524-9325001 2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			to acceptance of the seeding:
	2527-9263180 2528-2518182	PAVEMENT MARKINGS REMOVED PERMANENT ROAD CLOSURE, URBAN, SI-182	_		1.Contractor shall maintain seeded lawn areas u Engineer. Maintain lawns by watering, fertilizi
_	-	See N-Sheets and C-Sheets for locations and details.			required to establish a smooth, acceptable lawr 2.If seeded areas become gullied or otherwise of
47	2528-8445110	TRAFFIC CONTROL			disturbed area shall be repaired to reestablish
-	-				six (6) inch lifts.
48	2533-4980005	MOBILIZATION -			seedling establishment. Adjust watering to prev
- 49-50	- 2599-9999005	- ('EACH' ITEM) BUMPER PADS	_		or mulch. 4.Acceptance of seeded lawn areas shall be base
	2599-9999005	('EACH' ITEM) KAYAK LAUNCH SYSTEM A. See U-Sheets for locations and details.			A. Seeded lawn areas shall be healthy, unifo B. The seeded lawn areas shall be free of we
		B. Method of Measurement - The number of each item satisfactorily installed will be counted. C. Basis of Payment - For each item installed the Contractor will be paid the contract unit price.			area within the seeded lawn, coverage shall exc inches by 4 inches.
-	-	- ('EACH' TTEM) ITTED DECEDIACIE	_		C. Grass shall not exceed 3" in height at ti
	2355-5555005	A. See R-Sheets for locations and details			shall be re-seeded and maintained as required,
		 B. Method of Measurement - The number of each item satisfactorily installed will be counted. C. Basis of Payment - For each item installed the Contractor will be paid the contract unit price. 	- 61-69	- 2601-2642120	- STABILIZING CROP - SEEDING AND FERTILIZING (URE
- 52	- 2599-9999005	- ('EACH' ITEM) STAINLESS STEEL DOCK CLEATS	_	2602-0000312 2602-0000350	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 REMOVAL OF PERIMETER AND SLOPE SEDIMENT CONTROL
		 A. See U-Sheets for locations and details. B. Method of Measurement - The number of each item satisfactorily installed will be counted. 	_	2602-0000500 2602-0000510	OPEN-THROAT CURB INTAKE SEDIMENT FILTER MAINTENANCE OF OPEN-THROAT CURB INTAKE SEDIMENT
	-	C. Basis of Payment - For each item installed the Contractor will be paid the contract unit price.		2602-0000520	REMOVAL OF OPEN-THROAT CURB INTAKE SEDIMENT FIL
53	2599-9999005	('EACH' ITEM) STEEL BENCH SEATING ASSEMBLIES		2602-0000540	MAINTENANCE OF GRATE INTAKE SEDIMENT FILTER BAC
		 B. Method of Measurement - The number of each item satisfactorily installed will be counted. C. Derset - The number of each item satisfactorily installed will be counted. 		2002-0000330	See RR-Sheets for locations and details.
	-	C. Basis of Payment - For each item installed the Contractor will be paid the contract unit price.	- 70	2602-0010010	- MOBILIZATIONS, EROSION CONTROL
54	2599-9999010	('LUMP SUM' ITEM) SITE SPECIFIC MATERIALS MANAGEMENT PLAN Refer to Special Provisions.	-	-	-
- 55-56	- 2599-9999018	- ('SQUARE YARDS' ITEM) COLORED, TOOLED PORTLAND CEMENT CONCRETE, DARK GREY	71	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL
	2599-9999018	('SQUARE YARDS' ITEM) COLORED, TOOLED PORTLAND CEMENT CONCRETE, TAN Refer to Tabulation 113 1. B-Sheets and Special Provisions for Colored. Tooled Portland Cement	- 72-75	- 2610-0000120	- TREES AUTUMN BLAZE MAPLE, 2.5" CAL, B&B, TYPE 1
		Concrete for details. Scarify and recompact 12 IN with Type A compaction shall be required under all		2610-0000120	TREES PRINCETON AMERICAN ELM, 2.5" CAL. B&B, TY TREES SWAMP WHITE OAK 2.5" CAL B&B TYPE 1 PL
		required as specified in Section 2521 of the IDOT Standard Specifications. Use Class 3 Durability		2610-0000400	WATERING FOR PLANTS
-	-	Aggingale.	1		in accordance with the plans and notes (includi
5/	2599-9999018	(SQUARE YARDS TIEM) POROUS PAVEMENT For use in the Tree Planting Area. Refer to R-Sheets.			soli mix and excavation). For the number of tr contractor shall be paid the contract unit price
		Method of Measurement. The area of porous pavement satisfactorily completed shall be measured by the Engineer. Basis of Payment. For each SY measured, the contractor will be paid the contract unit price, which shall be		-	During contract period, care for trees in accor
		considered full compensation for all tools, material, equipment, and labor necessary to complete the work. No deduction will be made for spacing around the tree.			
	1		11	1	1

E INFORMATION

Description

100-4A 10-29-02

D SOILS	
ontaminated soil, in accordance w rovisions for site materials mana	ith the Site Specific gement plan.
he mulch for all areas designate to final grading.	d as "Seeding and
ediately prior to the sod being covered shall be applied before	applied. the Bonded Fiber Matrix
lbs per acre.	- managed by the Freinsen
he contractor shall be paid the	contract unit price, which shall
material, equipment, and labor	necessary to complete the work.
, and additional adjacent areas	as directed by the
The following additional require	ments shall be met prior
until the established seed has b	een accepted by the
ing, weeding, mowing, and re-gra	ding and replanting as
damaged during the period of est	ablishment, the
n the grade and the condition of	the soil, and shall be
o repair gullied areas shall be	placed and compacted in
iding supplemental water as need	ed to promote healthy
vent wilting, puddling, erosion	and displacement of seed
ed upon the following criteria:	
orm and a close stand of grass s	nall be established.
ceed 95%. Scattered bare spots s	nall not exceed an area 4
ime of accontance	
requirements of acceptance at the	e time of inspection
until accepted, at no additiona	l cost to Owner.
BAN)	
2 IN. DIA.	
G	
I PLANIING YPE 2 PLANTING	
LANTING	
ce hid shall include all work no	ressary to install trees
ing percolation test, wood mulch	, fertilizer, planting
rees installed in accordance wit	h the plans, the
ce. Establishment period for all rdance with 2610.I	trees shall be 2 growing seasons.

POLLUTION PREVENTION PLAN

This project is regulated by the requirements of the Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) General Permit No. 2 OR an Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) individual storm water permit. The Contractor shall carry out the terms and conditions of this permit and the Pollution Prevention Plan (PPP).

This Base PPP includes information on Roles and Responsibilities, Project Site Description, Controls, Maintenance Procedures, Inspection Requirements, Non-Storm Water Controls, Potential Sources of Off Right-of-Way Pollution, and Definitions. This plan references other documents rather than repeating the information contained in the documents. A copy of this Base Pollution Prevention Plan, amended as needed during construction, will be readily available for review.

All contractors shall conduct their operations in a manner that controls pollutants, minimizes erosion, and prevents sediments from entering waters of the state and leaving the highway right-of-way. The Contractor shall be responsible for compliance and implementation of the PPP for their entire contract. This responsibility shall be further shared with subcontractors whose work is a source of potential pollution as defined in this PPP.

I. ROLES AND RESPONSIBILITES

- A. Designer:
 - 1. Prepares Base PPP included in the project plan.
 - 2. Prepares Notice of Intent (NOI) submitted to Iowa DNR.

3. Is signature authority on the Base PPP. If consultant designed, signature from Contracting Authority is also required. B. Contractor:

- 1. Signs a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
- 2. Designates a Water Pollution Control Manager (WPCM), who has the duties and responsibilities as defined in Section 2602 of the Standard Specifications.
- 3. Submits an Erosion Control Implementation Plan (ECIP) and ECIP updates according to Section 2602 of the Standard Specifications. 4. Installs and maintains appropriate controls. This work may be subcontracted as documented through Subcontractor Request Forms
- (Form 830231).
- 5. Supervises and implements good housekeeping practices according to Paragraph III, C, 2. 6. Conducts joint required inspections of the site with inspection staff. When Contractor is not mobilized on site, Contractor may delegate this responsibility to a trained or certified subcontractor. Contracting Authority also may waive joint inspection requirement during winter shutdown. In both circumstances, WPCM (or trained or certified delegate from the Contractor) is still responsible to review and sign inspection reports.
- 7. Complies with training and certification requirements of Section 2602 of the Standard Specifications.
- 8. Submits amended PPP site map according to Section 2602 of the Standard Specifications.
- C. Subcontractors:
- 1. Sign a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP if: responsible for sediment or erosion controls; involved in land disturbing activities; or perorming work that is a source of potential pollution as defined in this PPP. Subcontracted work items are identified in Subcontractor Request Forms (Form 830231). All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
- 2. Implement good housekeeping practices according to Paragraph III, C, 2.
- D. RCE/Project Engineer:
- 1. Is Project Storm Water Manager.
- 2. On projects where DOT is the Contracting Authority, is current with erosion control training or certification.
- 3. Takes actions necessary to ensure compliance with storm water requirements including, where appropriate, issuing stop work orders, and directing additional inspections at construction project sites that are experiencing problems with achieving permit compliance.
- 4. Orders the taking of measures to cease, correct, prevent, or minimize the consequences of non-compliance with the storm water requirements of the Applicable Permit.
- 5. Supervises all work necessary to meet storm water requirements at the Project, including work performed by contractors and subcontractors.
- 6. Requires employees, contractors, and subcontractors to take appropriate responsive action to comply with storm water requirements, including requiring any such person to cease or correct a violation of storm water requirements, and to order or recommend such other actions as necessary to meet storm water requirements.
- 7. Is familiar with the Project PPP and storm water site map.
- 8. On projects where DOT is Contracting Authority, is responsible for periodically monitoring inspection reports to determine whether deficiencies identified in inspection reports were adequately and timely addressed, and if not, has the authority and responsibility to direct immediate actions to correct the deficiencies.
- 9. Is the point of contact for the Project for regulatory officials, Inspector, contractors, and subcontractors regarding storm water requirements.
- 10. Is signature authority on Notice of Discontinuation.
- 11. Maintains an up-to-date record of contractors, subcontractors, and subcontracted work items through Subcontractor Request Forms (Form 830231)
- 12. Makes information to determine permit compliance available to the DNR upon their request. E. Inspector:
- 1. Updates PPP through fieldbook entries and storm water site inspection reports if there is a change in design, construction, operation, or maintenance which has a significant effect on the discharge of pollutants from the project.
- 2. Makes information to determine permit compliance available to the DNR upon their request.
- 3. Conducts joint required inspections of the site with the contractor/subcontractor.
- 4. Completes an inspection report after each inspection.

ENGLISH DESIGN TEAM AECOM

5. Is signature authority on storm water inspection reports.

II. PROJECT SITE DESCRIPTION

FILE NO.

3/13/2021

- A. This Pollution Prevention Plan (PPP) is for the construction of a PCC Sidewalk/Trail in Waterloo, IA from Parker St to Washington St along U.S. 63.
- B. This PPP covers approximately 2.0 acres with an estimated 1.5 acres being disturbed. The portion of the PPP covered by this contract has 1.5 acres disturbed.
- C. The PPP is located in an area of Keynyon-Clyde-Floyd soil association. The estimated weighted average runoff coefficient number for this PPP after completion will be 0.80.
- D. Storm Water Site Map is located in the EC sheets. Proposed slopes are shown in cross sections, details, or standard road plans. Supplemental information is located in the Tabulations in the C or CE sheets.
- E. The base storm water site map is amended by contract modifications and progress payments (fieldbook entries) of completed erosion control work. Also, due to project phasing, erosion and sediment controls shown on project plans may not be installed until needed, based on site conditions. For example, silt fence ditch checks will typically not be installed until the ditch has been

POLLUTION PREVENTION PLAN

installed. Installed locations may also be modified from tabulation locations by field staff. Installed locations will be documented by fieldbook entries and amended PPP site map.

F. Runoff from this work will flow into an existing storm sewer system, ultimately to the Cedar River.

III. CONTROLS

110-12 10-20-26

- the construction process that the measure will be implemented. B. Preserve vegetation in areas not needed for construction.
- C. Sections 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Actual quantities used and installed locations may vary from the Base PPP and amendment of the plan will be documented via fieldbook entries, amended PPP site map, or by contract modification. Additional erosion and sediment control items may be required as determined by the inspector and/or contractor during storm water site inspections. If the work involved is not
 - Specifications. 1. EROSION AND SEDIMENT CONTROLS
 - a. Stabilization Practices
 - of the site will be stabilized.
 - 2) Initialize stabilization of disturbed areas immediately after clearing, grading, excavating, or other earth disturbing activities have:
 - a) Permanently ceased on any portion of the site, or
 - 3) Staged permanent and/or temporary stabilizing seeding and mulching shall be completed as the disturbed areas are
 - completed. Incomplete areas shall be stabilized according to paragraph III, C, 1, a, 2, b above. 4) Permanent and Temporary Stabilization practices to be used for this project are located in the storm water site map,
 - Standard Road Plans Tabulation (105-4) in the C or EC sheets. 5) Preservation of existing vegetation within right-of-way or easements will act as vegetative buffer strips.
 - be found in the Tabulations in the C or T Tabulation sheets, or is referenced in Section 2105 of the Standard Specifications.
 - b. Structural Practices
 - from surface when discharging basins, and controls to direct storm water to vegetated areas.
 - c. Storm Water Management
 - Measures shall be installed during the construction process to control pollutants in storm water discharges that will occur

2. OTHER CONTROLS

Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental laws, rules and regulations, the more restrictive laws, rules or regulations shall apply.

- storage, and use.
- by a Section 404 permit.
- spills and prevent material discharges to the storm drain system and waters of the state. f. Concrete Residuals and Washout Wastes - Waste shall not be discharged to a surface water and is not allowed to adversely
- overflow during storm events.
- g. Concrete Grooving/Grinding Slurry Do not discharge slurry to a waterbody or storm drain. Slurry may be applied on foreslopes or removed from the project.
- h. Vehicle and Equipment Storage and Maintenance Areas Perform on site fueling and maintenance in accordance with all treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.
- storm water would result in a discharge of pollutants.
- Measures are also to be taken to prevent scour erosion at dewatering discharge point. 3. APPROVED STATE OR LOCAL PLANS
- During the course of this construction, it is possible that situations will arise where unknown materials will be encountered. the time.

110-12 10-20-20

A. The Contractor's ECIP specified in Article 2602.03 of the Standard Specifications for accomplishment of storm water controls should clearly describe the intended sequence of major activities, and for each activity define the control measure and the timing during

applicable to any contract items, the work will be paid for according to Article 1109.03 paragraph B of the Standard

1) Site plans will ensure that existing vegetation or natural buffers are preserved where attainable and disturbed portions

b) Temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days.

Estimated Project Quantities (100-0A, 100-1A, or 100-1C), and Estimate Reference Information (100-4A) located in the C or EC sheets. Typical drawings detailing construction of the practices to be used on this project are referenced in the

6) Preservation of topsoil: Bid items to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C or EC sheets. Additional information may

1) Structural practices will be implemented to divert flows from exposed soils and detain or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Additionally, structural practices may include: silt basins that provide 3600 cubic feet of storage per acre drained or equivalent sediment controls, outlet structures that withdraw water

2) Structural practices to be used for this project are located in the storm water site map, Estimated Project Quantities (100-0A, 100-1A, or 100-1C), and Estimate Reference Information (100-4A) located in the C or EC sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the devices to be used on this project can be found on the B or EC sheets or are referenced in the Standard Road Plans Tabulation (105-4) located in the C or EC sheets.

after construction operations have been completed. This may include velocity dissipation devices at discharge locations and along length of outfall channel as necessary to provide a non-erosion velocity flow from structure to water course. If included with this project, these items are located in the storm water site map and Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C or EC sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation. The installation of these devices may be subject to Section 404 of the Clean Water Act.

a. Vehicle Entrances and Exits - Construct and maintain entrances and exits to prevent tracking of sediments onto roadways. b. Material Delivery, Storage and Use - Implement practices to prevent discharge of construction materials during delivery,

c. Stockpile Management - Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving. d. Waste Disposal - Do not discharge any materials, including building materials, into waters of the state, except as authorized

e. Spill Prevention and Control - Implement chemical spill and leak prevention and response procedures to contain and clean up

affect a water of the state. Designate temporary concrete washout facilities for rinsing out concrete trucks. Provide directions to truck drivers where designated washout facilities are located. Designated washout areas should be located at least 50 feet away from storm drains, streams or other water bodies. Care should be taken to ensure these facilities do not

environment laws such as proper storage of onsite fuels and proper disposal of used engine oil or other fluids on site. Employ washing practices that prevent contamination of surface and ground water from wash water. Wash waters must be i. Litter Management - Ensure employees properly dispose of litter. Minimize exposure of trash if exposure to precipitation or

Dewatering - Properly treat water to remove suspended sediment before it re-enters a waterbody or discharges off-site.

When such situations are encountered, they will be handled according to all federal, state, and local regulations in effect at

4)8I-07	SHEET NUMBER	C.4	

		11	and the second			
			110-12 10-20-20			
	POLLUTION F	PREVENTION PLAN				
IV. MAINTENANCE PROCEDU The Contractor is r cleaning, repairing capacity.	RES equired to maintain all temporary erosion , or replacing them throughout the contrac	and sediment control measures in pr t period. This shall begin when th	oper working order, including e features have lost 50% of their			
 V. INSPECTION REQUIREME A. Inspections shall days. Storm water 1. Date of the in 2. Summary of the 3. Name and quali S. Review of eros waters. 6. Major observat 7. Identification B. Include storm wat measures determin calendar days of corrections less an estimated data 	NTS be made jointly by the Contractor and the site inspections will include: spection. scope of the inspection. fications of the personnel making the insp ion and sediment control measures within d ions related to the implementation of the of corrective actions required to maintai er site inspection reports in the Amended ed as a result of the inspection. Immedia the inspection and complete within 7 calen than 72 hours after the inspection is impr	e Contracting Authority's inspector ection. listurbed areas for the effectivenes PPP. n or modify erosion and sediment co PPP. Incorporate any additional er tely begin corrective actions on al dar days following the inspection. acticable, it should be documented	at least once every seven calendar s in preventing impacts to receiving ntrol measures. osion and sediment control l deficiencies found within 3 If it is determined that making the why it is impracticable and indicate			
VI. NON-STORM WATER DIS This includes subsu these features may This also includes DDD	CHARGES rface drains (i.e. longitudinal and standa be controlled by the use of headwalls or b uncontaminated groundwater from dewatering	rd subdrains) and slope drains. Th locks, Class A stone, erosion stone perations, which will be controll	e velocity of the discharge from or other appropriate materials. ed as discussed in Section III of the			
VII. POTENTIAL SOURCES (Silts, sediment, a Potential sources conveyed and contr	OF OFF RIGHT-OF-WAY (ROW) POLLUTION nd other forms of pollution may be transpo of pollution located outside highway ROW a olled per this PPP.	rted onto highway right-of-way (ROW re beyond the control of this PPP.) as a result of a storm event. Pollution within highway ROW will be			
 VIII. DEFINITIONS A. Base PPP - Initia B. Amended PPP - Base site inspection recertifications, a request. C. Fieldbook Entries D. Controls - Method contaminants from E. Signature Authori 	 Pollution Prevention Plan. PPP amended during construction. May inceports, fieldbook entries made by the inspend Subcontractor Request Forms. Items ame This contains the inspector's daily dias, practices, or measures to minimize or performed of the sector of the sector	lude Plan Revisions or Contract Mod ector, amended PPP site map by the nding the PPP are stored electronic ry and bid item postings. revent erosion, control sedimentati called Best Management Practices (B ious storm water documents.	ifications for new items, storm water Contractor, ECIP, NOI, co-permittee ally and are readily available upon on, control storm water, or minimize MPs).			
CERTIFICATION STATEMENT I certify under pen with a system designed of the person or person submitted is, to the be submitting false inform	alty of law that this document and all att to assure that qualified personnel properl s who manage the system, or those persons st of my knowledge and belief, true, accur ation, including the possibility of fine a	achments were prepared under my dir y gathered and evaluated the inform directly responsible for gathering ate, and complete. I am aware that nd imprisonment for knowing violati Signatu	ection or supervision in accordance ation submitted. Based on my inquiry the information, the information there are significant penalties for ons.			
			Daniel Kimball, PE	j.		
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ILE NO.	IGLISH DESIGN TEAM AECOM			BLACK HAWK COUNTY	PROJECT NUMBER T	ΔΡ-Ι

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111-25 10-18-11

INDEX OF TABULATIONS Tabulation Title Sheet No. Tabulation C Sheets ESTIMATED PROJECT QUANTITIES (UP TO A 5 DIVISION PROJECT) PROJECT DESCRIPTION ESTIMATE REFERENCE INFORMATION C.1 - C.2 100-1C 100-1D C.1 C.2 - C.3 100-4A C.2 - C.3 C.6 C.6 C.7 C.6 C.6 C.6 C.6 C.6 C.4 - C.4 100-10 FLOATING SILT CURTAINS 100-19 PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE 100-24 PCC PAVEMENT OPEN-THROAT CURB INTAKE SEDIMENT FILTER GRATE INTAKE SEDIMENT FILTER BAG 100-36 100-37 105-4 STANDARD ROAD PLANS POLLUTION PREVENTION PLAN 110-12 INDEX OF TABULATIONS C.6 C.6 111-25 COMBINED CONCRETE SIDEWALK AND RETAINING WALL PAVEMENT MARKING LINE TYPES MATERIALS FOR TYPE 'A' SIGNS 108-16 C.7 C.7 108-22 190-51

					See	
	Location	Retaining Wall				
	Location					
Station	Station to Station		Туре	Height, H	Thickness	
				FT	FT	
100+18.45	101+00.00		В	0 to 4	0.7	
101+00.00	103+85.00		B	4.0	0.7	
103+85.00	104+08.70		B	4 to 0	0.7	

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE Possible Standards: EC-204

				POSSID.	Le Stanuarus.	EC-204
Location			Length of Installation		ation	
Begin Station	End Station	Side	9 inch Dia	12 inch Dia	20 inch Dia	Remarks
-			LF	LF	LF	
300+35	302+35	RT		200.0		
100+00	104+00	LT		445.0		
104+00	105+90	RT		190.0		
						100.20

			105-4 10-18-1
		STANDARD ROAD PLANS	
		The following Standard Road Plans apply to construction work on this project.	
Number	Date	Title	
DR-121	10-17-17	Connected Pipe Joints	
C-202	10-21-14	Floating Silt Curtain	
C-204	10-19-21	Perimeter and Slope Sediment Control Devices	
EC-303	10-19-21	Stabilized Construction Entrance	
C-602	04-21-20	Open-Throat Curb Intake Sediment Filter	
I-103	04-20-21	Conduit and Precast Handholes	
I-201	04-18-17	Light Pole Foundation	
1I-220	10-20-15	Detectable Warnings and Pedestrian Ramp	
PM-110	04-21-20	Line Types	
PV-101	04-21-20	Joints	
PV-103	04-21-20	Manhole Boxouts in PCC Pavement	
SI-101	04-19-16	Locations - Type 'A' Signs	
SI-131	10-18-16	Installation - Type 'A' Signs	
5W-101	04-17-18	Trench Bedding and Backfill Zones	
5W-102	04-20-21	Rigid Gravity Pipe Trench Bedding	
5W-301	04-20-21	Circular Sanitary Sewer Manhole	
5W-401	04-20-21	Circular Storm Sewer Manhole	
SW-507	04-21-20	Single Open-Throat Intake, Small Box	
FC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)	
FC-202	10-19-21	Work Within 15 ft of Traveled Way	
FC-211	10-15-19	Lane Closure on Low Volume Roadway	
FC-228	10-16-18	Lane Closure Involving TWLTL	
FC-601	10-15-19	Pedestrian Detour	

108-16 10-19-10

COMBINED CONCRETE SIDEWALK AND RETAINING WALL

See	MI-221					
	Sidewalk		Con	crete		
ness	Width, W	Thickness	Retaining Wall	Sidewalk & Footing	Porous Backfill	Reinforcing Steel
	FT	FT	CY	CY	CY	LB
0.7	11.0	1.0	4.0	42.0	2.0	2360
0.7	11.0	1.0	28.1	146.9	7.0	9177
0.7	11.0	1.0	1.2	12.2	0.6	697
			33.3	201.1	9.6	12234

100-19 04-19-16

OPEN-THROAT CURB INTAKE SEDIMENT FILTER						
Location	Side	Installation	Maintenance	Removal	Remarks	
Station		LF	EACH	EACH		
River Rd		20.0	2	2		
Old River Rd		40.0	4	4		

100-	3	7
04-18-	1	7

GRATE	INT	AKE SED Possible De	IMENT F	ILTER	BAG	
Location	Side	Installation	Maintenance	Removal	Remarks	
Station		EACH	EACH	EACH		
Marina Parkin		5	5	5		

100-10

10-21-14							
F	FLOATING SILT CURTAINS						
Station	Hanging	Containment	Clean-out (Containment)	Maintenance of Floating Silt Curtain	Remarks		
	LF	LF	LF	LF			
1004+14	250.0	250.0	500.0	250.0			

4)8I-07	SHEET NUMBER	C.6	



25			ELW4: Edg	ge Line Rig	ht (White) @ :	1.00	
	STA	STA	STA	STA	Re	marks	
						190-51 10-15-13	
				INSTALLATI	ON		
	F	F1	TYPE	DIM 'X' FT	SEE SIGNING NOTES	REMARKS	
			3	CENTERED	IA, PP		
			3	CENTERED 3	IA, PP IA, PP		
				4	14, 22		
_							
_							
						100 04-21	-24
	Does 1 112-4 Refer Quant:	not include for quanti to PV-410, ity include	raised is ties. PV-411, F s Pavement	land area o V-412, and Header.	or curb. Refer PV-414.	100 04-21	-24 L-1
	Does 1 112-4 Refer Quant:	not include for quanti to PV-410, ity include	raised is ties. PV-411, F s Pavement	land area o V-412, and Header. Remarks	pr curb. Refer PV-414.	100- 04-21	- 22 - 1!

SURVEY SYMBOLS

- ¥ . FHD Fire Hydrants
- O TVP TVP TV Pedestal
- Flg FLG Flag Poles
- BB Billboard 88
- SIGN SI Sign
- ⊙ MM MM Mile Marker Post
- INB Storm Sewer Beehive Intake 8
- TEV Evergeen Tree *
- TDC Tree Deciduous
- Ð TFR Tree Fruit
- **(B)** SHR Shrub
- . PPA Power Pole Co 1
- IN Storm Sewer Intake
- MH Utility Access (Manhole) .
- TSG Traffic Signal ٠
- OUT Tile Outlet •
- ★ TSL Traffic Signal and Luminare
- □ SIGN SL Speed Limit Sign
- GP Guard Post (Less Than 4 Posts)
- MIS Miscellaneous
- TPD Telephone Pedestal
- ov GV Gas Valve
- EB EB Electrical Box
- □ UB Utility Box
- WV W/Water Valve
- PR Electic Riser Pole 6=
- LUM Luminaire 0
- CUL Culvert
- LIN Miscellaneous Line
- Tile · TIL Tile Line
- GDL Guard Rail Steel
- ROC Rock Outcropping
- BLD Building or Foundation
- CON Concrete or A/C Slab
- CU Back of Curb
- GU Gutter In Front of Curb
- ENP Edge Paved Entrance & Park Lot
- SWK Sidewalk
- EP Edge of Paved Roads (ML or SR)
- ---- ENT Centerline BL of Entrance
- SH Paved Shoulder
- — SNP Unpaved Shoulder
- DU Centerline Draw or Stream (Up)
- ---- BNK Stream Bank
- — EG Edge of Gravel Road
- ₩₩₩₩₩₩₩₩₩ RIP Rip-Rap
- DIK Centerline of Dike or Dam
- TLNL Tree Line Left

- TLNR Tree Line Right
- FW Wire Fence ___ × _____
- FWD Wood Fence
- TDL Trafic Detection Loop
- HDG Hedge Row
- D Centerline Draw or Stream (Down)
- RET Retaining Walls

UTILITY LEGEND

- E1 ELC Underground Electric Conductor MidAmerican
- E2 ELC Underground Electric Secondary Conductor - MidAmerican
- F02 · FOC Underground Fiber Optic - UPN
- F03 FOC Underground Fiber Optic City of Waterloo
- F04 FOC Underground Fiber Optic - City of Waterloo & UPN
- FOC Underground Fiber Optic Mediacom - F05
- F06 FOC Underground Fiber Optic Aureon
- F07 FOC Underground Fiber Optic - Century Link
- GC Gas MidAmerican - G
- San. SANC Sanitary Sewer - City of Waterloo
- TV CTVC Cable Ty - Mediacom
- W WLC Underground Water Line - Waterloo Water Works

(2) Green Blue (1) Magenta (5) Existing Utilities SHADING Design Color No. Yellow (4) (3) Red //// Delineates Restricted Areas (9) Temporary Pavement Shading Lavender (48) Proposed Pavement Shading Gray, Light Gray, Med (80) Proposed Granular Shading Gray, Dark Brown, Light (236) Grading Shading (8) Proposed Sidewalk Shading Tan Blue, Light (230) Proposed Sidewalk Landing Shading Pink (11) Proposed Sidewalk Ramp Shading

Design Color No.

LINEWORK

LINEWORK Destan Color No.

Green	(2)	Existing G
Blue	(1)	Proposed F
Magenta	(5)	Existing U
Blue, Light	(230)	Proposed [
Black	(0)	Proposed [
- .		
Rust	(14)	Proposed L
Rust	(14)	Proposed L
Rust	(14) ference Po	int
Rust Re Station	(14) ference Po	int Survey Line
Rust Re Station A	(14) ference Po 	Int Survey Line Section Con
Rust Re Station A	(14)	- Survey Line - Section Co - Ground Line

Pavement Removal

Saw Cut

Guardrail

Clear Grubb

CEDAR RIVER MARINA RECREATIONAL TRAIL ENHANCEMENTS - UTILITY CONTACT LIST									
	CITY OF WATERLOO, IOWA								
AME	ТҮРЕ	LINE CODE	CONTACT	EMAIL	ADDRESS	CITY	STATE	ZIP	PHONE #
ureon Network Services	Local Fiber Optic	FO6	Jeff Klocko	jeff.klocko@aureon.com	7760 Office Plaza Drive South	West Des Moines	IA	50266	515-830-0445
enturyLink	Communications	FO7	Brent Giese	Brent.Giese@CenturyLink.com	2103 E. University Ave	Des Moines	IA	50317	515-201-4520
erra Technologies (rep CenturyLink)	Communications	FO7	Bandon Aman	baman@terratechllc.net					701-866-7952
lediaCom	Cable TV	TV & FO5	Kevin Parker	kparker@mediacomcc.com	4010 Alexandra Drive	Waterloo	IA	50702	319-240-4987
lidAmerican Energy Company	Electric Distribution	E1 & E2	Chris Wolfe	CTWolfe@midamerican.com	260 Fairview Ave	Waterloo	IA	50703	319-291-4738
lidAmerican Energy Company	Electric Distribution	E1 & E2	David Kline	dkline@midamerican.com	260 Fairview Ave	Waterloo	IA	50703	319-291-4726
lidAmerican Energy Company	Gas Distribution	G	Karen Speicher	kdspeicher@midamerican.com	260 Fairview Ave	Waterloo	IA	50703	319-291-4728
nite Private Networks	Local Fiber Optic	FO2 & FO4	Dan Hogan	Dan.Hogan@upnfiber.com	13300 Hickman Road	Des Moines	IA	50325	515-326-4237
anitary and Storm Sewer	Waterloo Waste Management	San.	Randy Bennett	randy.bennett@waterloo-ia.org	3505 Easton Ave.	Waterloo	IA	50702	319-291-4445
/aterloo Water Works	Water	W	Rick Wilberding	RICK.WILBERDING@WATERLOO-IA.ORG					319-240-5013
/aterloo Water Works	Water	W	Brian Johnson	BRIAN.JOHNSON@WATERLOO-IA.ORG					
/aterloo Water Works	Water	W	Matt Mahler	MATT.MAHLER@WATERLOO-IA.ORG	325 Sycamore Street	Waterloo	IA	50703	319-232-6280
ba System Integrators	Traffic Signal Fiber Optic	FO3 & FO4	James L. Gilbert	jgilbert@gbasi.com	9801 Renner Boulevard, Suite 300	Lenexa	KS	66219-9745	913 492-0400
ity of Waterloo, Traffic	Traffic Signal Fiber Optic	FO3 & FO4	Matt Vlasak	matt.vlasak@waterloo-ia.org	625 Glenwood Street	Waterloo	IA	50703	319-291-4440

С	ENGLI S H	IOWA DOT	DESIGN TEAM AECOM	BLACK HAWK COUNTY	PROJECT NUMBER	TAP-U-8155(768
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PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

Existing Topographic Features and Labels Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation

Highlight for Critical Notes or Features (112) Proposed Grade and Pave Shading "In conjunction with a paving project"

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

round Line Profile Profile and Annotation Jtilities Ditch Grades, Left Ditch Grades, Median Ditch Grades, Right

RIGHT-OF-WAY LEGEND

ner	Proposed Right-of-Way
•	riangle Existing Right of Way
Intercept	Existing and Proposed Right-of-Way
	Easement and Existing Right-of-Way
	🔿 Easement (Temporary)
ing &	Easement
bing Area	C/A Access Control
	->+<- Property Line

PL	AN AND PROFILE
LEC	GEND AND SYMBOL
INF	FORMATION SHEET
(COVERS SI	HEET SERIES D, E, F, H, & K)
TAP-U-8155(768)8I-07	SHEET NUMBER D.1



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^{8:22:46} AM 8/13/2021 Abby.Schaefepw:\\aecom-na-pw.bentley.com:AECOM_DS21_NA_2020\Documents\60608131-Cedar River Marina District\900-CAD GIS\TAP-U-8155(768)--81-07\02-SHEETS\SHT_Marina_TAP_D01.sht



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<u>MANATT'S</u>	
MARINA SITE E DRIVE	DRIVEWAY 1
	858
	856
	854
	852
	850
	848
	846
	844
	842
	840



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O FEE	20	and the second	Land
	MAI	RINA SITE	PARKING
			860
			858
			856
			854
			852
			850
			846
B)8I-Ø7	203+00 SHEET NUMBER	D.9	844

	ALIGNMENT COORDINATES																		
Ι			Point on Tangen	t		Begin Spiral			Begin Curve		Simple Cu	urve PI or Master PI o	I of SCS End Curve				End Spiral		
Name	Location	Station	Coord Y (Northing)	inates X (Easting)	Station	Coord Y (Northing)	dinates X (Easting)	- Station	Coord Y (Northing)	inates X (Easting)	- Station	Coordinate Y (Northing) X	es (Easting)	Station	Coord Y (Northing)	inates X (Easting)	Station	Coordina Y (Northing)	tes X (Easting)
DRIVE11		300+00.00	3,647,708.77	5,232,212.42															
DRIVE13		301+57.40	3,647,602.09	5,232,328.16															
DRIVE15		302+90.40	3.647.456.69	5.232.485.91															
PARK11		200+00.00	3,647,767.25	5,232,407.32															
PARK1_3								200+50.18	3,647,765.72	5,232,357.17	200+75.00	3,647,764.83 5,2	232,332.36	200+89.27	3,647,740.02	5,232,333.08			
PARKI_6 PARK18		202+18.07	3 647 621 07	5,232,307,57				201+66.41	3,647,662.91	5,232,335.30	201+77.82	3,647,651.51 5,2	232,335.63	201+88.07	3,647,643.13	5,232,327.90			
		202110107	6,617,621167	61202,007107															
BOATCHANNEL1		1000+00.00	3.647.935.22	5.232.559.37															
BOATCHANNEL_3								1002+64.92	3,647,712.96	5,232,703.52	1002+96.22	3,647,686.69 5,2	232,720.55	1003+25.59	3,647,674.83	5,232,749.52			
BOATCHANNEL5		1004+14.41	3,647,641.17	5,232,831.71															
								400.00.00	7.040.400.40	5 0 7 0 7 0 0 0 0	400 - 70 77	7.040.400.07	70 400 04	400, 77 70	7 0 40 400 75	5 0 7 0 4 0 0 0 0			
KAYAK_IRAIL_21 KAYAK TRAIL_24								100+00.00	3,648,192.42	5,232,380.29	100+38.73	3,648,160.93 5,2	232,402.84	100+77.30	3,648,126.35	5,232,420.28			
15		101+97.80	3,648,019.08	5,232,474.98					0,010,000111	0,202,100.20	101110102			101121100		0,202,112.10			
16 Kavak trail 11		102+17.80	3,647,999.92	5,232,480.73				102164.23	3 6 4 7 0 5 6 0 4	5 272 405 90	102169.20	3647.052.20 5.2	22 107 10	10217216	3 6 4 7 0 4 9 3 7	5 232 407 99			
KAYAK_TRAIL_11								102+04.23	3,647,912.14	5,232,504.25	102+08.20	3,647,902.59 5,2	232,505.92	103+28.11	3,647,894.35	5,232,511.05			
KAYAK_TRAIL_17		104.00 70	7 0 4 7 0 7 7 5 0	E 070 EC4 07				103+62.33	3,647,865.31	5,232,529.15	103+79.40	3,647,850.24 5,2	32,537.16	103+95.22	3,647,843.21	5,232,552.71			
103		104+08.70	3.647.744.81	5,232,564.93															
			-,,	-,,															
RIVFRRD 1								500+00.00	3.647.496.79	5,232,101,46	500+16.33	3.647.513.00 5.2	32.103.47	500+31.71	3.647.525.37	5.232.114.13			
RIVERRD_4								503+12.67	3,647,750.38	5,232,282.38	504+96.55	3,647,896.60 5,2	32,393.87	506+66.89	3,648,080.46	5,232,391.92			
RIVERRD_7								504+94.32	3,648,107.88	5,232,391.25	507+70.90	3,648,184.41 5,2	232,388.19	508+46.17	3,648,256.05	5,232,361.10			
CONTROL POINT			NORTHING	EASTING	ELEVATION														
R8			3,647,129.54	5,232,470.29	846.98														
MAR3			3,647,864.50	5,232,494.00	859.87														
MAR2			3,647,690.17	5,232,354.03	854.35														
MARI			3,647,472.69	5,232,323.41	852.14														
								SPIRAL	OR CIRCUL	AR CURV	E DATA								101-17 04-19-11
								-	Ho	orizontal Alignm	ent Data								
Name	Location	1	\triangle_{scs}	θs		Ls 1	Spi Ts Es	ral Data Xc	Yc	L.T.	S.T.		-	Curve Data	n R	E		Remarks	
												¥							
PARK1_3												89° 35' 44.63" LT	24.82'	39.09'	25.00'	10.23'			
T ARRE 0												10 50.02 111	11.40	21.00	20.00	2.23			
BOATCHANNEL 3												34° 45' 55 10" T	31 31'	60.68'	100.00'	4 79'			
BOATCHANNEL_S												34 43 33.10 ET	51.51	00.00	100.00	4.75			
KAYAK TRAIL 21												8° 51' 20 14" DT	78 77'	77 30'	500.00'	1 50'			
KAYAK_TRAIL_24												7° 34' 49.99" RT	3.31'	6.615'	50.00'	0.110'			
KAYAK_TRAIL_11												9° 05' 42.58" RT	3.98'	7.937'	50.00'	0.158'			
KAYAK_IKAIL_14 KAYAK_TRAIL_17												37° 41' 40.48" LT	9.70	19.16 32.90'	50.00	2.833'			
RIVERRD 1												33° 43' 08.73" RT	16.33'	31.71'	53.89'	2.42'			
RIVERRD_4												37° 56' 04.78" LT	183.87	354.22'	535.00'	30.72'			
RIVERRD_7												18° 25' 26.91" BT	76.59'	151.85'	472.24'	6.17'			
		-i														i			
C E	NGLISH IOWA DO	T DESIGN TEA	M AECOM						E	BLACK HA	WK COUNTY	PROJECT NUMBER	TA	<u>-U-8155(7</u>	<u>68)8I-Ø7</u>	SHE	EET NUMBER	5.1	

11:06:23 AM 8/16/2021 Abby.Schaefepw:\\aecom-na-pw.bentley.com:AECOM_DS21_NA_2020\Documents\60608131-Cedar River Marina District\900-CAD GIS\TAP-U-8155(768)--8I-07\02-SHEETS\SHT_Marina_TAP_G01.sht

	108-23A 08-01-08			
TRAFFIC CONTROL PLAN			PEDESTRIAN	PA
1. Prior to start of colored infill, River Road Trail shall be closed on both ends and TC-228 shall the trail. For sanitary sewer work in River Road, TC-211 shall be incorporated into TC-228 for durat	be installed for lane closure near ion of work.	*Assumes 6 foot wide barricade. Closures may need to be removed and re-esta	Refen blished.	r to ⁻
2. For sanitary sewer work in River Road, TC-211 shall be incorporated into TC-228 for duration of w	ork.			
3. All signage and control devices shall be incidental to traffic control item.		Location		Si
4. Trail Closures as tabulated in tabulation 113-2 will be included in the price bid for Traffic Con	trol.	100' SE of Start Proposed Colored Sidewalk 10' N of End Proposed Colored Sidewalk 20' E of Gatewell 1		
	108-26A 08-01-08	At Manatt's Driveway		
STAGING NOTES				
It is recognized that as the various activities related to construction progess, certain situations preclude adhering to the original construction sequence or which, in the opinion of the contractor, staging operation. Should this occur, and the contractor desires to deviate from the original plan, alternative plan for approval by the Engineer.	may arise which might could benefit from a more efficient the contractor shall submit an			
LEVEE WORK PROPOSED STAGING				
1. Work within the Cedar River shall be done at times of low flow and at times when the Cedar River expected to be deflated in November, 2021 and will remain deflated during the 2022 construction seas	Bladder Dam is deflated. The dam is on.			
2. Complete grading for construction of Kayak Trail to river. Use Kayak Trail to access construction	area adjacent to river.			
3. Install erosion control devices as work progresses.				
4. Complete channel excavation from upstream to downstream. Portions of excavated material may be us area. Work area may be pumped dry to provide work area for completion of channel excavation and cons	ed to dam off Cedar River from work truction of concrete structures.			
5. Install engineering fabric and complete lining of channel with revetment.				
6. Construct concrete dock, retaining wall, and sidewalk.				
RECREATIONAL TRAIL AND PARKING LOT WORK				
1. Work in this area is governed by the General Site Materials Management Plan (GSMMP)				
2. Pavement removal of old River Road and parking lot areas.				
3. Construct storm and sanitary sewer. Excavated materials shall be tested and handled in accordance	with GSMMP.			
4. Complete rough grading of site. Cut materials shall be tested and handled in accordance with GSMM special backfill provided by contractor.	P. Fill material, as needed, shall be			
5. Install lighting and electrical conduit. Excavated materials shall be tested and handled in accor	dance with GSMMP.			
6. Pave recreational trail, driveway, colored infill.				
7. Complete landscaping work.				
]		
FILE NO. ENGLISH DESIGN TEAM AECOM		BLACKHAWK COUNTY PROJECT NUMBER	TAP-U-81	55()

113-2 04-16-13

ATH CLOSURES

TC-601.

de	Type III Barricades*	Remarks
	No.	
	2	Sidewalk Closure
	2	Sidewalk Closure
	1	Sidewalk Closure
	2	Sidewalk Closure

768)8I-07	SHEET NUMBER	J.1	













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8:34:01 AM 8/13/2021 Abby.Schaefef:\pwworking\aecom_ds21_na_2020\dms96776\SHT_Marina_TAP_L01.sht



8:34:23 AM 8/13/2021 Abby.Schaefepw:\\aecom-na-pw.bentley.com:AECOM_DS21_NA_2020\Documents\60608131-Cedar River Marina District\900-CAD GIS\TAP-U-8155(768)--8I-07\02-SHEETS\SHT_Marina_TAP_L01.sht









ENGLISH	IOWA DOT	DESIGN TEAM AECOM	BLACK HAWK COUNTY	PROJECT NUMBER	TAP-U-8155(768
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1/4" +/- 1/16

DETAIL "A" (Sawcut formed by conventional concrete sawing equipment)

See Detail "A"



- Joint Sealant Material to Match Color of Existing
- 'Tan' When adjacent to Tan Standard Pavement 'Gray' When adjacent to Tan-Gray or Gray-Standard
- ¹/₄" Preformed closed cell
- polyethylene joint material

¥4 BARS MAY BE PRESENT IN E-1 JOINTS

JOINT DETAILS FOR COLORED PAVEMENT

8)8I-Ø7	SHEET NUMBER	L . 8	

EDGE WITH $\frac{1}{4}$ INCH TOOL FOR LENGTH OF JOINT INDICATED IF FORMED; EDGING NOT REQUIRED WHEN CUT WITH DIAMOND BLADE SAW.

- THE FREE END OF DOWEL BAR SHALL BE (2) COATED TO PREVENT BOND WITH PAVEMENT.
- JOINT SEALANT MATERIAL SHALL MATCH THE COLOR OF ADJACENT PAVEMENT.



9:43:59 AM 8/13/2021 Abby.Schaefepw:\\aecom-na-pw.bentley.com:AECOM_DS21_NA_2020\Documents\60608131-Cedar River Marina District\900-CAD GIS\TAP-U-8155(768)--81-07\02-SHEETS\SHT_Marina_TAP_M01.sht



	STORM	SEWER PF	ROFILE	
100				
	SANITAR	Y SEWER	PROFILE	
	SMH-3			
				_
				_
				_
				_
				-
3)81-07	SHEET NUM	1BER M.2		

Diameter or equivalent diameter
 * Bid Item
 ** For SW-545

STORM SEWER

** FOr	SW-545	INTAKES AND UTILITY A	ACCESSE	S											PIPES	_
							Design each si	Length, de of t	Slope	e, and F sign Len	lowlines a gth to acc	re calcu count for	lated fro estimate	m insid d lengtl	e wall to insi h to center of	de s
No.	Location Station and Offset	*Type or Standard Road Plan	Form Grade	Bottom Well	Extension Length**	Notes	Line Number	Int Uti Acc N	ake/ lity cess o.	Class 'D'	1 Pipe Size	Bid* Length	Design Length	Slope %	Connected Pipe Joint (DR-121)	-
			Elev.	Elev.	<u>FT</u>			From	To		IN	FT	FT		Туре	Ē
I-101	201+89.07, 13.00' LT	SW-507	853.69	846.94			P-100 P-101	Future I-101	I-101 I-102	2000	15 15	7 44	5.0	1		┝
1-102 JA-103	301+42.00, 13.00 RT 300+21.25, 32.95' RT	SW-507 SW-401	853.25	846.44			P-102	I-102	UA-103	2000	15	126	122.0	1		F
											TOTAL	177				t
SMH-1	502+09.50, 37.63' LT	SW-301	852.41	844.07		EXIST SANITARY	M-400	SMH-1	SMH-2	TRUSS	8	58	54.0	0.4		t
SMH-2 SMH-3	300+41.40, 0+00 301+79.40, 0+00	SW-301 SW-301	853.45 852.47	843.88 844.53		SANITARY SANITARY	M-401	SMH-2	SMH-3	TRUSS	8	142	138.0	0.4		F
							_				TOTAL	200				F
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104-5B 10-20-15

wall along CL of pipe. An additional 2 ft length is added to cructures.							
	Flow Lines		Pipe Profile	Notes			
Inlet Elevation	Outlet Elevation	Other Elevation	Sheet No.				
847.44 846.94	847.54 847.04 845.72						
844.38 845.03	844.17 844.48						
68)8	I-07	SHEET NUMBER	M.3				



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BAG CLOSURE		° 05	
507+56.80, TYPE 2/LIGH	4.70′ RT — T-A109		
1505			
), 3.00′ RT			
*	1		
			J
			Y
NOTE 2	[]		/
		7	
			\mathbf{X}
			/
		1	
)			
ALL NEW CON WITH 3C6 ⁄CA	DUITS SHAL BLE, AND 1	L BE 2″ P C3 GROUND	VC SCH 40 OR 80
NOTE 1-UAC	EXISTING LI	IGHT.	
NOTE 2-REMO	VE EXISTIN T TO BE RE	G LIGHT FO MOVED BY	DOTING. CITY.
NOTE 3-UAC	EXISTING CO	ONDUIT AND	D WIRE.
NOTE 4-REMO	VE CONDUIT	AND WIRIN	NG
			LIGHTING
3)8I-Ø7	SHEET NUMBER	P.1	



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8)8I-Ø7	SHEET NUMBER	P.2	

LIGHTING NOTES

THE CONTRACTOR SHALL SUBMIT A LIST OF LIGHTING EQUIPMENT THAT IS PROPOSED FOR INSTALLATION. SHOP DRAWINGS WILL BE REQUIRED FOR LIGHT POLES AND LUMINAIRES

FOR REMOVAL OF STREET LIGHTS, CONTRACTOR TO REMOVE CONCRETE FOOTING AND LIGHT POLE. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF CONDUIT AND CABLE TO POWER SOURCE FOR EACH LIGHT THAT IS TO BE REMOVED. CONTRACTOR SHALL COORDINATE WITH CITY FOR POSSIBLE STOCKPILE OF REMOVED LIGHTING POLES.

ALL LIGHTS SHALL BE FED FROM UNDERGROUND.

INDIVIDUAL LUMINAIRES SHALL BE PROVIDED WITH A MOLDED IN-LINE FUSE CONNECTOR WITHIN THE POLE BASE AND BE SIZED TO FIT THE CONDUCTORS. FUSES SHALL BE 10-AMPRE CARTRIDGE. THE NEUTRAL CONDUCTOR SHALL NOT BE FUSED.

ALL PVC CONDUITS UNDER EXISTING OR PROPOSED PAVING SHALL BE SCH80.

ALL ELECTRICAL HANDHOLES SHALL BE IDOT LI-103, TYPE 1, 48" DEPTH.

LOCATIONS OF LIGHT POLES SHALL BE REVIEWED IN THE FIELD AT TIME OF CONSTRUCTION, AND SHALL BE MODIFIED AS NECESSARY TO AVOID UNNECESSARY IMPACTS TO EXISTING AND/OR PROPOSED UTILITIES.

LIGHT POLES SHALL BE FINISHED WITH A BLACK GALVANIZED POWDER TOP COAT.

ALL LIGHT POLE BASES SHALL HAVE MINIMUM OF 2 CONDUIT STUBOUTS.

LIGHT BASES SHALL BE 2 INCHES ABOVE MAXIMUM ADJACENT SIDEWALK GRADES.

ANY REMOVAL OF EXISTING CONDUIT SHALL BE INCIDENTAL TO THE ELECTRICAL CIRCUIT BID ITEM.

TYPE 1 FOOTINGS SHALL BE IDOT LI-201

TYPE 2 FOOTINGS SHALL BE AS SHOWN ON SHEET P.2.

ESTIMATED QUANTITIES INCLUDED IN ELECTRICAL CIRCUIT BID ITEM:

2" PVC CONDUIT	1311 LF
3C6 CABLE IN NEW CONDUIT	1476 LF
GROUND AND TRACER CABLE, PULL ROPE	1476 LF
ELECTRICAL CONDUIT AND WIRING REMOVAL	335 LF

ESTIMATED PROJECT QUANTITIES

LUMINAIRE TYPE 1	4 E/
LUMINAIRE TYPE 2	9 E/
ELECTRIC HANDHOLE	4 E/
LIGHT POLE FOUNDATION REMOVAL	5 E/

QUANTITIES ARE FOR INFORMATIONAL AND ESTIMATING PURPOSES ONLY. VARIATIONS FROM THE QUANTITIES SHOWN SHALL NOT BY ITSELF BE CONSIDERED GROUNDS FOR CHANGE ORDER. CONTRACTOR SHALL BE PAID THE UNIT PRICE PER LINEAL FOOT OF ELECTRICAL CIRCUIT PLACE, MEASURED BETWEEN CABINETS, POLES AND/OR HANDHOLES, AND SHALL NOT INCLUDE MEASUREMENT FOR LENGTH OF CONNECTIONS TO LUMINAIRES IN POLES.

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55(768)81-07	SHEET NUMBER	R.2	





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KAYAK Launch System



- EZ-Dock d.
- Shop Drawings/Catalog Cuts shall be submitted for approval by Engineer. 6.

Stainless Steel Dock Cleats

- Cleats shall be Type 316 Stainless Steel. 1.
- 2. Cleats shall be 8".
- Cleats shall have minimum of 2 attachment points into concrete dock, with 3. minimum 2000 lbs pullout strength.
- Cleats shall be open base. 4.
- 5. Shop Drawings/Catalog Cuts shall be submitted for approval by Engineer.

Bumper Pads

- Bumper pads shall be 3"x4"x4'. 1.
- Bumper pads shall be UV-Resistant, heavy duty rubber, intended for permanent 2. installation.
- Bumper pads shall be mounted vertically, 1"below top of dock. 3.
- Minimum of 3 attachment points into concrete dock, , with minimum 2000 lbs 4. pullout strength each.
- 5. Shop Drawings/Catalog Cuts shall be submitted for approval by Engineer.



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1. ALL STEEL 2" CLEAR UNLESS OTHERWISE NOTED.

2. STRUCTURAL CONCRETE SHALL BE CLASS C, IDOT SPEC 2403, F'c=3500 PSI.

3. BAR CHAIRS SPACED AT NOT OVER 3' C-C IN EITHER DIRECTION ARE TO BE

4. PROPOSED BOTTOM FOOTING ELEVATIONS ARE BASED ON ANTICIPATED TOP OF ROCK ELEVATIONS AND SHALL BE ADJUSTED BASED ON ACTUAL ROCK ELEVATIONS.

5. THE WEATHERED BED ROCK SHALL HAVE A MINIMUM ALLOWABLE BEARING CAPACITY OF 3500 PSF. CONTRACTOR SHALL UTILIZE INDEPENDENT CONSULTANT TO CONFIRM BEARING CAPACITY.

6. GRANULAR BACKFILL TO MEET GRADATION 13A.

7. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60



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Provide a minimum concrete cover to near reinforcement of 2 inches, except at bottom of footing provide 4 inches. Provide 2 inches minimum cover at the ends of bars.

REINFORCING BAR LIST					
Size	Shape	Length	Spacing		
5		Wall Height + 2'-0"	9"		
5	—	Variable	12"		
5	_	17'-11 <u>¹</u> "	18"		



Michael.Degerpw:\\aecom-na-pw.bentley.com:AECOM_DS21_NA_2020\Documents\60608131-Cedar River Marina District\900-CAD GIS\TAP-U-8155(768)--8I-07\02-SHEETS\SHT_Marina_TAP_U01.sh 10:11:30 AM 9/17/2021

	— — Existing Ground Line ——— Proposed Template
	Proposed Topsoil Placement
	Additional Topsoil Removal
	– – Granular Shoulder
	Pavement
	- Existing Pipe\RCB
	Proposed Pipe (KCB)
	All Elements Associated with Proposed Entrances
LIN	E STYLE LEGEND OF CROSS SECTION SHEETS (SOILS)
TS	——— Topsoil (Class 10)
— SLOPE DRESS	ING — Slope Dressing Only
CL 10—	Class 10 Materials
\$EL L0	Select Loams And Clay-Loams
SEL SA-	Select Sand
UNS A-	Unsuitable Type A Disposal
	Unsuitable Type & Disposal
UNS B UNS C SHALE	Unsuitable Type C Disposal Unsuitable Type C Disposal Shale
UNS B	Unsuitable Type C Disposal Unsuitable Type C Disposal Shale Waste
UNS 8 UNS C SHALE WASTE B&W LS	 Unsuitable Type B Disposal Unsuitable Type C Disposal Shale Waste Broken and Weathered Rock
UNS B	 Unsuitable Type B Disposal Unsuitable Type C Disposal Shale Waste Broken and Weathered Rock Solid Rock
UNS B	 Unsuitable Type B Disposal Unsuitable Type C Disposal Shale Waste Broken and Weathered Rock Solid Rock Solid Rock Boulders ar lines and descriptions identify layers above the line.
UNS B- UNS C- SHALE- WASTE- B&W LS- ROCK- BLDRS - BLDRS - Note: All lay Note: Vertical cross s and do	 Unsuitable Type B Disposal Unsuitable Type C Disposal Shale Waste Broken and Weathered Rock Solid Rock Boulders er lines and descriptions identify layers above the line. or near vertical lines connecting soil layers at edges of ections are only for the purpose of calculating template quantities not depict soil stratification. SYMBOL LEGEND OF CROSS SECTION SHEETS
UNS B- UNS C- SHALE- WASTE- B&W LS- ROCK- BLDRS - BLDRS - Note: All lay Note: Vertical cross s and do	Unsuitable Type C Disposal Unsuitable Type C Disposal Shale Waste Broken and Weathered Rock Solid Rock Boulders er lines and descriptions identify layers above the line. or near vertical lines connecting soil layers at edges of ections are only for the purpose of calculating template quantities not depict soil stratification. SYMBOL LEGEND OF CROSS SECTION SHEETS Existing Right-of-Way Limit
UNS B- UNS C- SHALE- WASTE- B&W LS- B&W LS- ROCK- BLDRS - Note: All lay Note: Vertical cross s and do	Unsuitable Type C Disposal Unsuitable Type C Disposal Shale Waste Broken and Weathered Rock Solid Rock Boulders er lines and descriptions identify layers above the line. or near vertical lines connecting soil layers at edges of ections are only for the purpose of calculating template quantities not depict soil stratification. SYMBOL LEGEND OF CROSS SECTION SHEETS Existing Right-of-Way Limit Proposed Right-of-Way Limit

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11:33:39 AM 8/16/2021 Abby.Schaefepw:\\aecom-na-pw.bentley.com:AECOM_DS21_NA_2020\Documents\60608131-Cedar River Marina District\900-CAD GIS\TAP-U-8155(768)--8I-07\02-SHEET\$\SHT_Marina_W01.DGN

