

ADDENDUM #2

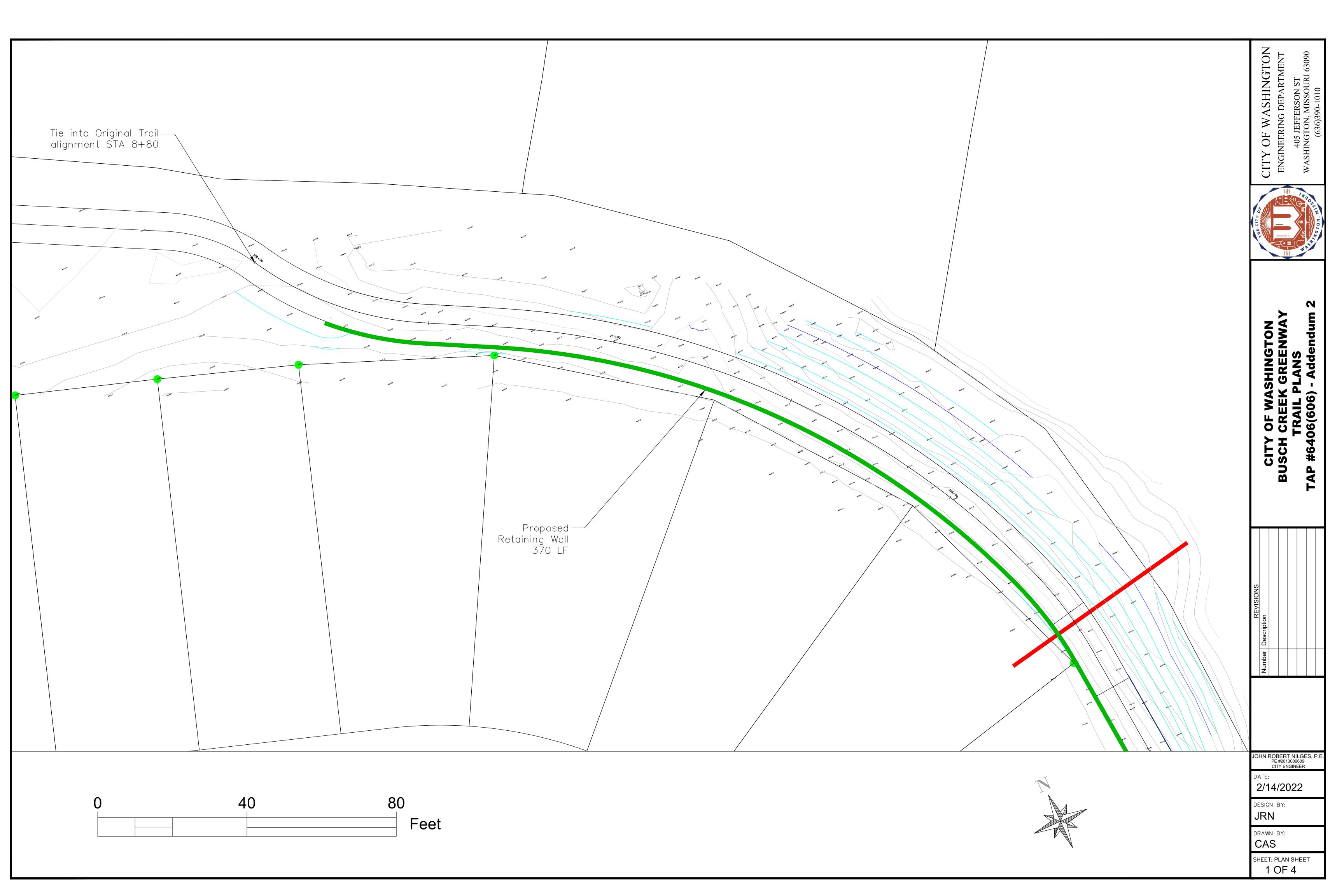
City of Washington, Missouri Busch Creek Greenway Project, TAP-6406(606) February 17, 2022

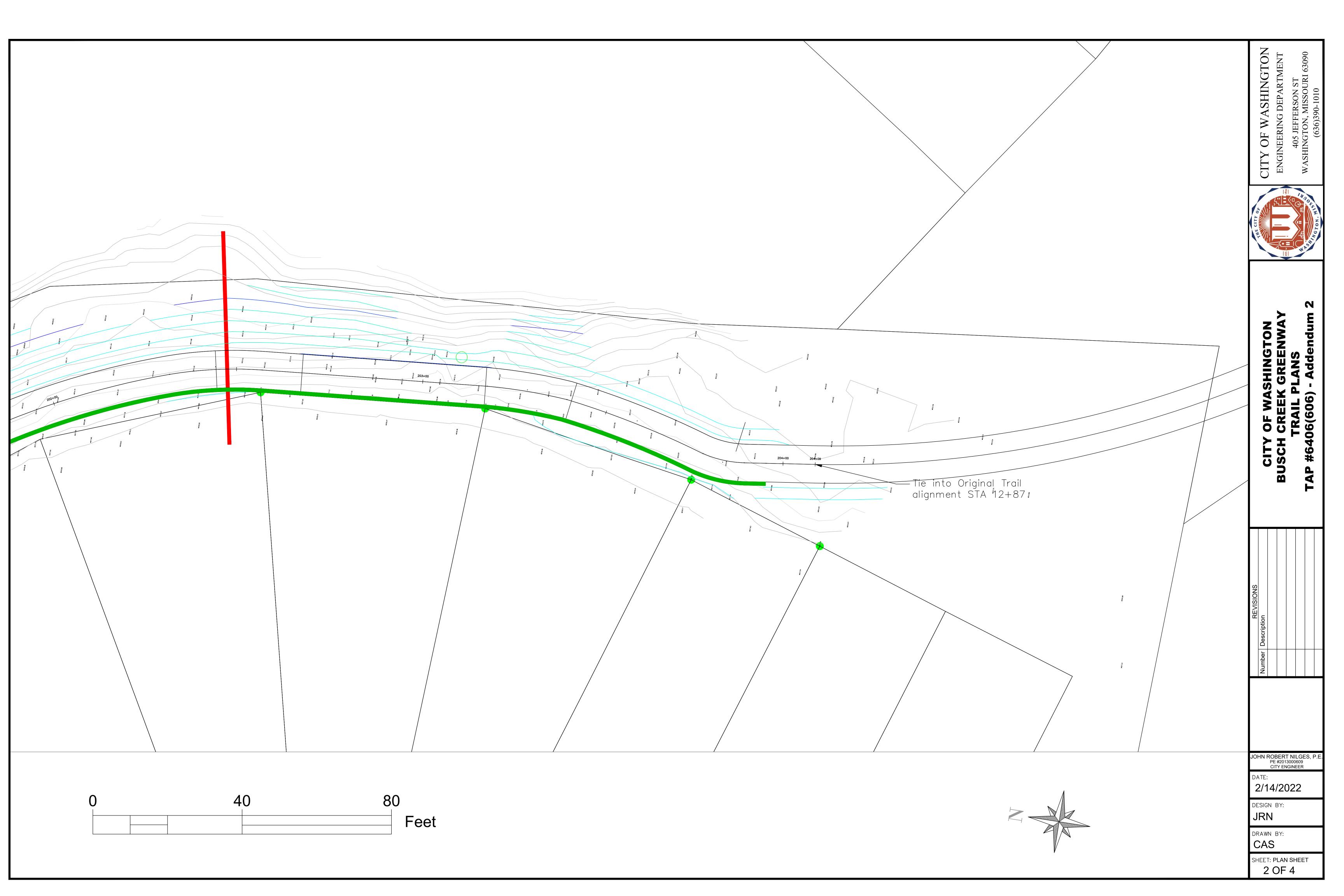
- 1. A retaining wall will be added to the project in the non-participating portion between shared use path Stations 8+80 thru 12+87. The retaining wall utilizes a separate stationing than the shared use path. Line Item #44 was added to the bid sheet under section "SITEWORK ITEMS Non-Participating," plan sheet 2 was updated and four new retaining wall sheets 1-4 were created.
- 2. The updated bid sheet 2 of 2, plan sheet 2 and new retaining wall plan sheets 1-4 are attached. Replace Bid Sheet 2 of 2 on page 14-b in the current specifications with the attached Estimated Quantities Bid Sheet, replace Sheet 2 in the plans with the updated plan and include retaining wall sheets 1-4 in the plan set.
- 3. The bid due date was revised in Addendum #1:

Bids will be due Friday, March 11, 2022 up to 2:00 p.m., CDT.

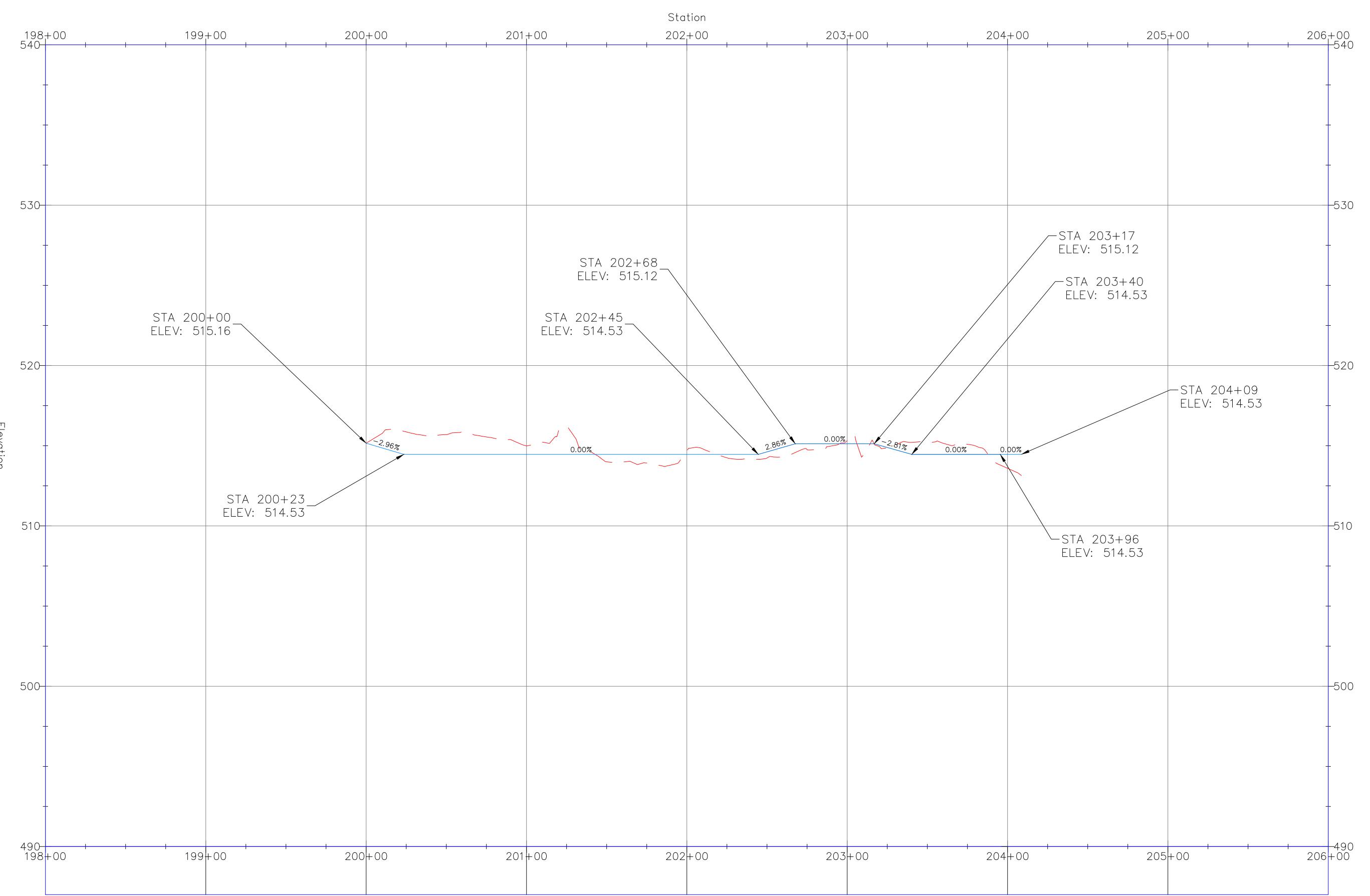
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Thank you,	
John Nilges	
John Nilges PE, CFM, CPESC Director of Public Services	
Attachments	
Received Addendum #2:	
Ву:	
Company Name:	
Date:	

Please return signed addendum to gvanek@washmo.gov





Proposed Trail Centerline Profile



TY OF WASHINGTON

GINEERING DEPARTMENT

405 JEFFERSON ST

ASHINGTON, MISSOURI 63090



CITY OF WASHINGTON
BUSCH CREEK GREENWAY
TRAIL PLANS
AP #6406(606) - Addendum

	REVISIONS
Number	Number Description

JOHN ROBERT NILGES, P.E PE #2013000609 CITY ENGINEER

2/14/2022

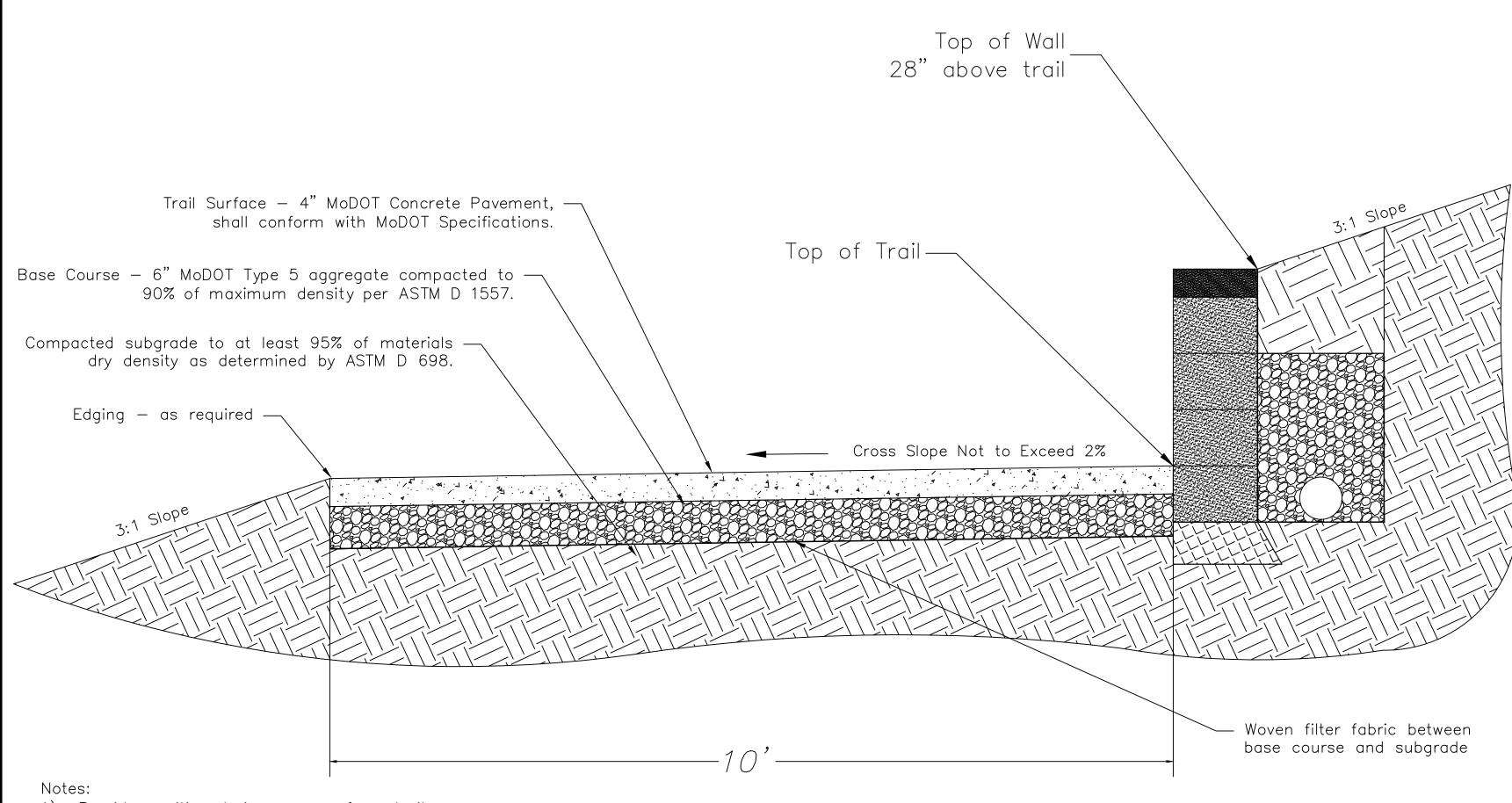
DESIGN BY:

DRAWN BY:

SHEET: PLAN SHEET

3 OF 4

Retaining Wall and Trail Detail **NOT TO SCALE**



- 1) Provide positive drainage away from trail.
- 2) Trail alignments shall be reviewed and approved by City prior to construction.
- 3) Slope path to drain, 2% max. cross slope.
- 4) Strip topsoil prior to placing subgrade.

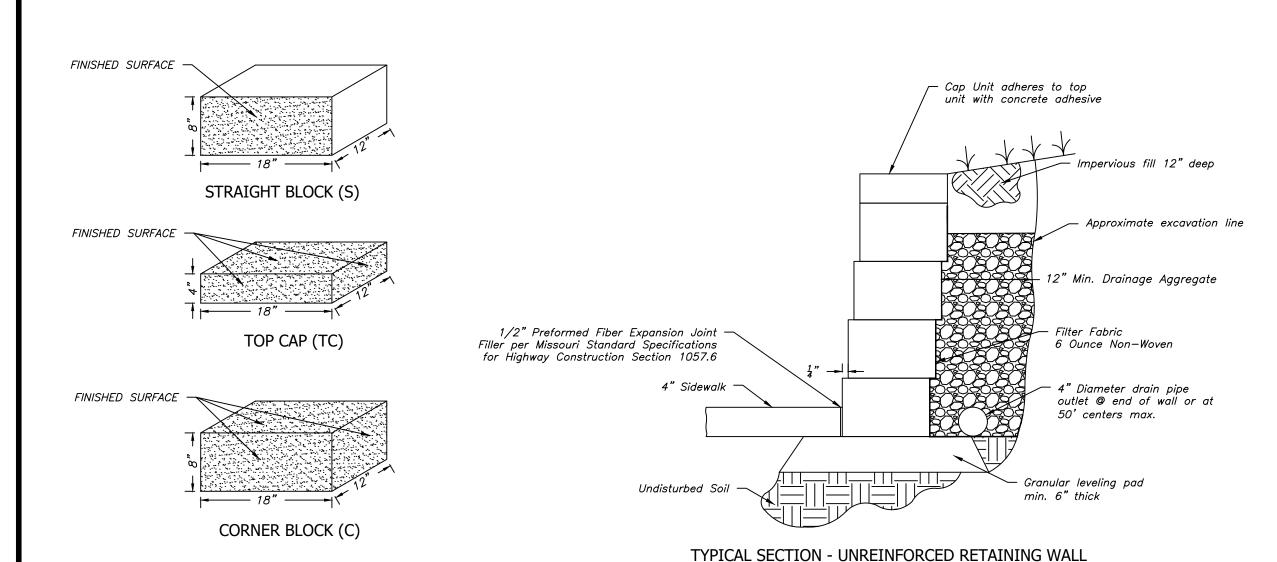
Sta 200+23 to Sta 203+96

Earthwork Quantities

Cut - 210 CY

Fill - 160 CY

SMALL BLOCK RETAINING WALL



- CONTENT OF 6%+/- 1%, A SLUMP OF 5" +/- 1" AND A MAXIMUM MOISTURE ABSORPTION OF 8%. ALL UNITS SHALL BE 8" TALL, 18" LONG AND 12" DEEP. THE CAP BLOCK SHALL BE 4" TALL, 18" LONG AND 12" DEEP.
- 2. DRAINAGE AGGREGATE SHALL BE A CLEAN CRUSHED STONE OR GRANULAR FILL MEETING THE FOLLOWING GRADATION AS DETERMINED IN ACCORDANCE WITH ASTM D

SIEVE SIZE	PERCENT PASS
1 INCH	100
¾ INCH	<i>75–100</i>
NO. 4	0-60
NO. 40	0-50
NO. 200	0-5

- 3. LOW PERMEABLE SOIL SHALL CONSIST OF MATERIAL HAVING A MINIMUM PLASTICITY INDEX OF 10. NO MORE THAN 10% SHALL BE RETAINED ON A NO. 4 SIEVE AND NO LESS THAN 35% SHALL PASS A NO. 200 SIEVE. MATERIAL WITH A USC DESIGNATION OF ML. CL OR OL ARE ACCEPTABLE FOR USE AS LOW PERMEABLE
- 4. DRAINAGE PIPE SHALL BE A PERFORATED OR SLOTTED PVC OR CORRUGATED HDPE PIPE. THE PIPE AND DRAINAGE AGGREGATE SHALL BE WRAPPED WITH A GEOTEXTILE FILTER FABRIC THAT WILL FUNCTION AS A FILTER. DRAINAGE PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM D 3034 AND/OR ASTM D 1248. FOUNDATION SOIL PREPARATION:
- 1. FOUNDATION SOIL SHALL BE EXCAVATED AS REQURED FOR LEVELING PAD SHOWN ON DRAWINGS.
- 2. FOUNDATION SOIL SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER TO INSURE THAT THE ACTUAL FOUNDATION SOIL STRENGTH MEETS OR EXCEEDS THE BEARING CAPACITY AS SHOWN ON THE WALL ELEVATIONS. SOILS NOT MEETING THE REQUIRED STRENGTH SHALL BE REMOVED AND REPLACED WITH MATERIAL ACCEPTABLE TO THE GEOTECHNICAL ENGINEER.
- 3. OVER-EXCAVATED AREAS SHALL BE BACK-FILLED WITH APPROVED, COMPACTED MATERIAL.

BASE LEVELING PAD:

1. LEVELING PAD SHALL BE PLACED AS SHOWN ON THE DRAWINGS AS FOLLOWS:

ALLOWED TO ENTER THE RETAINING WALL AREA OF THE CONSTRUCTION SITE.

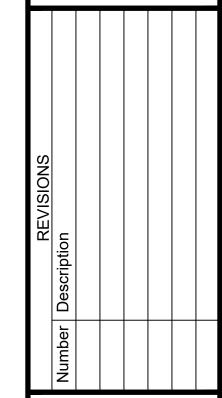
- LEAN CONCRETE (2,000 PSI) 4" MINIMUM THICK
- WELL GRADED 3/4" GRAVEL WITH FINES 6" MINIMUM THICK
- 2. GRAVEL BASE SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR TO PROVIDE A LEVEL, HARD SURFACE.
- 3. LEVELING PAD SHALL BE CONSTRUCTED TO INSURE FULL BEARING OF RETAINING WALL UNITS.

1. EXCAVATION SUPPORT, INCLUDING THE STABILITY OF THE EXCAVATION AND ITS INFLUENCE ON ADJACENT PROPERTY IS THE RESPONSIBILITY OF THE CONTRACTOR.

- 1. THE FIRST COURSE OF MODULAR CONCRETE UNITS SHALL BE PLACED ON THE BASE LEVELING PAD AND CHECKED FOR LEVEL, ALIGNMENT, AND FULL CONTACT WITH
- 2. UNITS SHALL BE PLACED SIDE BY SIDE FOR FULL LENGTH OF WALL. ALIGNMENT SHALL BE DONE BY MEANS OF A STRING LINE OR OFFSET MEASUREMENT FROM 1. INSTALL NON-WOVEN 6 OUNCE FILTER FABRIC PLACED DIRECTLY BEHIND THE WALL EXTENDING FROM THE BOTTOM OF THE BASE COURSE TO THE MIDDLE OF THE TOP
- 4. PLACE DRAINAGE FILL A MINIMUM OF 12" DIRECTLY BEHIND AND BETWEEN THE UNITS. EXCESS MATERIAL SHALL BE REMOVED FROM TOP OF UNITS PRIOR TO
- INSTALLATION OF NEXT COURSE. 5. LAY UP EACH COURSE INSURING A POSITIVE CONNECTION BETWEEN PREVIOUS COURSE IS ACHIEVED.
- 6. AT THE END OF EACH DAY'S OPERATION, SLOPE THE LAST LEVEL OF COMPACTED BACKFILL AWAY FROM THE INTERIOR (CONCEALED) FACE OF THE WALL TO DIRECT SURFACE WATER RUNOFF FROM THE WALL FACE. A. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE THAT THE FINISHED SITE DRAINAGE IS DIRECTED AWAY FROM THE RETAINING WALL SYSTEM. B. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE THAT THE SURFACE WATER RUNOFF FROM ADJACENT CONSTRUCTION AREAS IS NOT
- FIELD QUALITY CONTROL: 1. THE OWNER IS RESPONSIBLE FOR ENGAGING THE SERVICES OF AN INDEPENDENT THIRD PARTY INSPECTOR TO OBSERVE AND VERIFY ALL SOIL PROPERTIES AND VERIFY CORRECT INSTALLATION OF ALL SYSTEM COMPONENTS TO MEET THE REQUIREMENTS OF THESE GENERAL NOTES AND DRAWINGS.
- 2. THE INSTALLER SHALL CORRECT ALL WORK WHICH DOES NOT MEET THE REQUIREMENTS OF THESE GENERAL NOTES AND DRAWINGS AT THEIR EXPENSE.



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JOHN ROBERT NILGES, P. CITY ENGINEER 2/14/2022

DESIGN BY: **JRN**

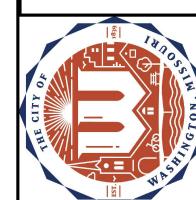
DRAWN BY: CAS

SHEET: PLAN SHEET 4 OF 4

											Busch Creek (Greenway Trail TAP #6406(606)	5)											
			1	2	3	8	4	9	5	10	6	11	7	12	19	13	14	15	16	20	17	18	30	21
			N 4 - - : : :	Synthetic Erosion	Pavement Markings Yellow	Pavement Markings Yellow	Pavement Markings White	Pavement Markings Bike	18" Reinforced Concrete	e 18" Reinforced Concrete	21" Reinforced	36" Reinforced	48" Reinforced	36" Concrete Flared	d Precast Concrete Drop Inlet 3 F	T Precast Concrete	D: D	Modified Concrete Swale	Camanata Consta					
Location	Sta.	Sta.	Mobilization	Control (Silt Fence)	4" (Participating)	4" (Non-Participating)	4" (Participating)	4" (Non-Participating)	12" (Participating)	12" (Non-Participating)	24" (Participating)	24" (Non-Participating)	Symbols	Pipe (Participating)	Pipe (Non-Participating)	Concrete Pipe	Concrete Pipe	Concrete Pipe	End Section	X 3 FT (Non-Participating)	Manhole - 60 IN.	Rip-Rap	(Non-Participating)	Concrete Swale
			LS	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	LF	EA	EA	SF	LF	SF
			1	500																				
Jefferson & Locust	0+00	5+61				502																		
Jefferson & Locust	5+61					220		120		156		10												
Locust - Sunnyside	11+48	16+85				536									34					1			30	
Locust - Sunnyside		20+10				326						5												
Sunnyside & 9th Street	20+10	21+00									16		1											
Sunnyside & 9th Street	21+00	24+06			87		260				5		1	8								20		
Sunnyside- 11th to Blue Jay	800+00	801+19							217		15													
Sunnyside- 11th to Blue Jay	801+19	804+67																						
9th Street	24+06	29+39			533																	,		
Schaper Avenue & MO 47	29+39	35+43			603											34	16	15	1		1			68
MO 47 Intersection	35+43	41+84			158		145				5		2			286								
8th Street	41+84	47+52											5											
8th Street	47+52	53+09											5											
8th Street	53+09	58+73											6											
8th Street	58+73	64+43											6											
8th Street & Camp Street	64+43	69+33											4											
Camp Street	69+33	75+93											7											
9th Street	75+93	81+51											6											
9th Street	81+51												5											
9th Street	87+14	92+88											5											
9th Street	92+88	98+61											6											
9th Street	98+61	104+46											6											
9th Street	104+46	110+33											5											
9th Street & Southbend Drive	110+33	116+86			86		130		156		5		5											
Southpoint School		123+22			636																			
Southpoint School		130+32			710																			
Steriger Avenue & Old Hwy 100		137+50			26		130				5		8											
Old Hwy 100 & Kingsland Drive	137+50	143+76											6											
Kingsland Drive		149+51											6											
Kingsland Drive		155+55											4											
Riverfront Trail Connection	155+55	156+88											2											
Subtotal - Participating			1	500	2839	0	665	0	373	0	51	0	101	8	0	320	16	15	1	0	1	20	0	68
Subtotal - Non-Participating			0	0	0	1584	0	120	0	156	0	15	0	0	34	0	0	0	0	1	0	0	30	0
Total			1	500	2839	1584	665	120	373	156	51	15	101	8	34	320	16	15	1	1	1	20	30	68
-	-		-			•	-	-	-		-	·		-	-	-	-	-	-	-				

												Busch Creek Green	vay Trail TAP #6400	6(606)										
			22	31	23	24	32	33	25	26	34	35	27	44	28	29	36	38	37	39	40	41	42	43
		0:		10' Wide Concrete Path		ADA Curb Ramps		60" Chain-Link Fence	72" Privacy Fence	Gates (Participating)	Gates (Non-	Decorative Street Light	Tree Clearing	Retaining Wall	Grading, Seeding,	Slope Grading				Relocate Existing Sign	Channelizers	ROAD WORK AHEAD (W20-1)		Flagger Symbol Sign (W20-7a) 48
Location	Sta.	Sta.	(Participating)	(Non-Participating)	(4" Thick)	(Participating)	(Non-Participating)	1	. –		Participating)	(Non-Participating)			and Straw		(Participating)	(Non-Participating)	(Participating)	(Non-Participating)		Sign 48" x 48"	Sign 48" x 48"	48"
			SF	SF	SF	SF	SF	LF	LF	EA	EA	EA	LS	LS	LS	LS	EA	EA	EA	EA	EA	EA	EA	EA
													1	1	1	1					100	2	2	2
Jefferson & Locust	0+00	5+61		4980				53				1						1						
Jefferson & Locust	5+61			4910			826				2							22						
Locust - Sunnyside	11+48			5360																				
Locust - Sunnyside	16+85	20+10		3260														8		1				
Sunnyside & 9th Street	20+10	21+00				107																		
Sunnyside & 9th Street	20+11	24+06	2190			280				2							4							
	800+00				185	290																		
Sunnyside- 11th to Blue Jay	801+19	804+67			1395	147																		
9th Street	24+06	29+39	5330																					
Schaper Avenue & MO 47	29+39	35+43	6030						102															
MO 47 Intersection	35+43	41+84	3030							2							10							
8th Street	41+84	47+52															6							
8th Street	47+52	53+09															4							
8th Street	53+09	58+73											V				4							
8th Street	58+73	64+43															4							
8th Street & Camp Street	64+43	69+33															6							
Camp Street	69+33	75+93											Λ				4							
9th Street	75+93	81+51															2							
9th Street		87+14															6							
9th Street	87+14																4							
9th Street		98+61															4							
9th Street	98+61					360											8							
	104+46																4							
9th Street & Southbend Drive	110+33		2160			318				2							9		1					
Southpoint School	116+86		6360			310				 			 				1	1	-					
Southpoint School	123+22		7100							†			 				2	+						
	130+32		1560			100				1 2			1				11	† †						
			1500			100							 	_	1		8	+				1		_
Kingsland Drive	137+50 143+76 149+51	149+51												_	 		4	+				<u> </u>		
Kingsland Drive	1/10±51	155±55			+										 		8	+				+		+
Riverfront Trail Connection	155+55	156±00				330				+				H	1		0	+						
Miveriforit frail Conflection	133733	130+00				330							1	\	-			+				+		
Subtatal Dartisinstins			22700		1500	1022	0		102				1	1	1	1	112	+ -	1	0	100	1	2	
Subtotal - Participating			33760	10510	1580	1932	· · · · · · · · · · · · · · · · · · ·	U 52	102	8	0	U	1	1	1	1	112	U	1	U	100	2	2	2
Subtotal - Non-Participating Total			0 33760	18510 18510	1580	0 1932	826 826	53 53	0 102	0 8	2	1	0	U	U	U	0 112	31	U	1	100	U	0	U

CITY OF WASHINGTON
ENGINEERING DEPARTMENT
405 JEFFERSON ST
WASHINGTON, MISSOURI 63090
(636)390-1010



CITY OF WASHINGTON 3USCH CREEK GREENWAY TRAIL PLANS TAP #6406(606)

×	REVISIONS	Number Description	2-9-2022	2-10-2022		
		Number	l	7		

JOHN ROBERT NILGES, P.E PE #2013000609 CITY ENGINEER

2/10/2022 DESIGN BY:

JRN DRAWN BY:

CAS

SHEET: PLAN SHEET 2 OF 39

В	JSCH CREEK GREENWAY IMPROVEMENT PROJECT TAP #6406(606)	Contractor	Name:_				
	BID SHEET 2 OF 2	7		PARTICI	PATING	NON-PART	ICIPATING
	SITEWORK ITEMS - Participating			Unit Cost	Total	Unit Cost	Total
21	Concrete Swale	68	SF				
22	10' Wide Concrete Path	33,760	SF				
23	Concrete Sidewalk (4" Thick)	1,580	SF				
24	ADA Curb Ramps	1,932	SF				
25	72" Privacy Fence	102	LF				
26	Gates	8	EA				
27	Tree Clearing	1	LS				
28	Grading, Seeding, and Straw	1	LS				
29	Slope Grading	1	LS				
	SITEWORK ITEMS - Non-Participating						
30	Modified Concrete Swale	30	LF				
31	10' Wide Concrete Path	18,510	SF				
32	ADA Curb Ramps	826	SF				
33	60" Chain-Link Fence	53	LF				
34	Gates	2	EA				
35	Decorative Street Light	1	EA				
44	Retaining Wall, Grading & Excavation included, Quantities on Plans	1	LS				
	SIGN ITEMS - Participating						
36	Permanent Signs	120	EA				
37	Relocate Existing Sign	1	EA				
	SIGN ITEMS - Non-Participating						
38	Permanent Signs	31	EA				
39	Relocate Existing Sign	1	EA				
	TRAFFIC CONTROL ITEMS - Participating						
40	Channelizers	100	EA				
41	ROAD WORK AHEAD (W20-1) Sign 48" x 48"	2	EA				
42	BE PREPARED TO STOP (W3-4) Sign 48" x 48"	2	EA				
43	Flagger Symbol Sign (W20-7a) 48" x 48"	2	EA				
BID F	PROJECT SUBTOTAL			\$		\$	
3ID F	PROJECT TOTAL			\$			

REMOVED #27 PER ADDENDA #1 dated February 9, 2022 ge. ADDED #44 PER ADDENDA #2 dated February 17, 2022

See Bid Sheet 1 of 2 on previous page.

**All sawcuts are incidential