

CHATHAM COUNTY PURCHASING & CONTRACTING DEPARTMENT

ADDENDUM NO. 2 TO 19-0059-4

FOR: QUACCO ROAD AT SR 25 / US 17 INTERSECTION IMPROVEMENTS

PLEASE SEE THE FOLLOWING FOR ADDITIONS, CLARIFICATIONS AND/OR CHANGES:

1. SEE ATTACHED QUESTIONS RECEIVED (1 sheet)
2. REPLACE CURRENT BID SHEETS WITH THE ATTACHED **REVISED** BID SHEETS (3 sheets)
4. SEE ATTACHED **REVISED** PLAN SHEETS (11 sheets)

NOTE: This is the FINAL ADDENDUM for this bid.

NOTE: BID OPENING REMAINS:

2PM, FRIDAY, JUNE 28, 2019

THE PROPOSER IS RESPONSIBLE FOR MAKING THE NECESSARY CHANGES AND MUST ACKNOWLEDGE RECEIPT OF ADDENDUM.

6/24/19
DATE



ROBERT E. MARSHALL
SENIOR PROCUREMENT SPECIALIST
CHATHAM COUNTY

Addendum #1: Quacco Road at SR 25/US 17 Improvements

- 1. The bid item for Flared End Section 18 in, Storm Drain was removed in Addendum #1 but structure B2.2 is still shown as an 18" FES. Please correct the bid form.***

The bid item 550-4118 Flared End Section 18-in, Side Drain is still in the bid tab sheet and will cover the required 18-in FES for B2.2.

- 2. Drainage line C2-C1 was removed in addendum #1 but the control structure is still listed on the bid form. Please correct.***

Outlet Control Structure line item was removed.

- 3. The special provisions state that the water quality inlet filters shall be installed in the catch basins but there are only 39 ea. catch basins setup in the job vs 50 ea. inlet filters. Will any of these filters be required to be installed in drop inlets?***

Inlet filters shall be installed in both catch basins and drop inlets.

- 4. The specifications state that "the maximum mean air voids for all Superpave mixes must not exceed 7% for the 100% pay factor." This is an on system specification that is typically applied to state routes. Since Quacco Road is not considered a state route and involves variable width widening, please consider changing the requirements for Quacco Rd. to "off system" specifications.***

All work within the right of way of SR 25/ US 17 will shall maintain the on-system specification. The work is Quacco Road is off system and the off system specification will be used for the paving within the right of way of Quacco Road.

- 5. Revised grading plans are included with this addendum.***

- 6. Georgia Power has not responded with a relocation schedule, however, the County intends to give them early authorization to begin relocations. If the utility relocation is going to delay construction, the County will work with the Contractor to stop contract time or add additional time due to potential Georgia Power delays.***

**SR 25/US 17 AT QUACCO ROAD INTERSECTION
CHATHAM COUNTY**

**DATE: 6/24/2019
REVISED BY ADDENDUM 2**

ITEM NO.	ITEM DESCRIPTION	U/M	QTY.	UNIT PRICE	EXTENSION
150-1000	TRAFFIC CONTROL -	LS	1		
207-0203	FOUND BKFILL MATL, TP II	CY	510		
210-0100	GRADING COMPLETE -	LS	1		
310-1101	GR AGGR BASE CRS, INCL MATL	TN	6834		
318-3000	AGGR SURF CRS	TN	260		
402-1812	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	TN	1379		
402-3121	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	275		
402-3130	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	TN	2717		
402-3190	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	976		
413-0750	TACK COAT	GL	3111		
432-5010	MILL ASPH CONC PVM, VARIABLE DEPTH	SY	12580		
439-0300	PERVIOUS CONCRETE PAVEMENT, 6 IN THK	SY	475		
441-0014	DRIVEWAY CONCRETE, 4 IN TK	SY	347		
441-0016	DRIVEWAY CONCRETE, 6 IN TK	SY	454		
441-0104	CONC SIDEWALK, 4 IN	SY	2837		
441-0740	CONCRETE MEDIAN, 4 IN	SY	900		
441-0748	CONCRETE MEDIAN, 6 IN	SY	130		
441-4020	CONC VALLEY GUTTER, 6 IN	SY	472		
441-4030	CONC VALLEY GUTTER, 8 IN	SY	37		
441-5004	CONCRETE HEADER CURB, 10 IN, TP 4	LF	162		
441-5057	CONC DOWELED INTEGRAL CURB, TP 7, INCL DOWELS	LF	216		
441-5002	CONCRETE HEADER CURB, 6 IN, TP 2	LF	60		
441-6222	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	LF	3903		
441-6740	CONC CURB & GUTTER, 8 IN X 30 IN, TP 7	LF	2087		
446-1100	PVMT REINF FABRIC STRIPS, TP 2, 18 INCH WIDTH	LF	4884		
500-3201	CLASS B CONCRETE, RETAINING WALL	CY	13		
500-9999	CLASS B CONC, BASE OR PVM, WIDENING	CY	221		
550-1180	STORM DRAIN PIPE, 18 IN, H 1-10	LF	1064		
550-1240	STORM DRAIN PIPE, 24 IN, H 1-10	LF	1342		
550-1300	STORM DRAIN PIPE, 30 IN, H 1-10	LF	532		
550-1360	STORM DRAIN PIPE, 36 IN, H 1-10	LF	801		
550-2180	SIDE DRAIN PIPE, 18 IN, H 1-10	LF	36		
550-4118	FLARED END SECTION 18 IN, SIDE DRAIN	EA	2		
550-4224	FLARED END SECTION 24 IN, STORM DRAIN	EA	3		
550-4236	FLARED END SECTION 36 IN, STORM DRAIN	EA	1		

ITEM NO.	ITEM DESCRIPTION	U/M	QTY.	UNIT PRICE	EXTENSION
634-1200	RIGHT OF WAY MARKERS	EA	26		
641-1200	GUARDRAIL, TP W	LF	271		
641-5015	GUARDRAIL TERMINAL, TP 12A, 31 IN, TANGENT, ENERGY-ABSORBING	EA	1		
643-1152	CH LK FENCE, ZC COAT, 6 FT, 9 GA	LF	760		
643-8010	GATE, CHAIN LINK ZC COAT -	EA	1		
643-8200	BARRIER FENCE (ORANGE), 4 FT	LF	425		
668-1100	CATCH BASIN, GP 1	EA	39		
668-1110	CATCH BASIN, GP 1, ADDL DEPTH	LF	22		
668-2100	DROP INLET, GP 1	EA	10		
668-2110	DROP INLET, GP 1, ADDL DEPTH	LF	5		
668-9800	OUTLET CONTROL STRUCTURE	EA	1		
670-9400	REMOVAL AND REPLACEMENT FOR UNSUITABLE MATERIAL	CY	625		
636-1033	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	SF	149		
636-1036	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 11	SF	125		
636-1041	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 9	SF	27		
636-2070	GALV STEEL POSTS, TP 7	LF	690		
639-2002	STEEL WIRE STRAND CABLE, 3/8 IN	LF	164		
639-4003	STRAIN POLE, TP III	EA	2		
653-0110	THERMOPLASTIC PVMT MARKING, ARROW, TP 1	EA	5		
653-0120	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	EA	21		
653-0170	THERMOPLASTIC PVMT MARKING, ARROW, TP 7	EA	2		
653-0210	THERMOPLASTIC PVMT MARKING, WORD, TP 1	EA	10		
653-0320	THERMOPLASTIC PVMT MARKING, SYMBOL, TP 4	EA	3		
653-1501	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	LF	9288		
653-1502	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	LF	3758		
653-1704	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	LF	215		
653-1804	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	LF	3716		
653-3501	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	GLF	17920		
653-6004	THERMOPLASTIC TRAF STRIPING, WHITE	SY	839		
653-6006	THERMOPLASTIC TRAF STRIPING, YELLOW	SY	2147		
654-1001	RAISED PVMT MARKERS TP 1	EA	96		
654-1003	RAISED PVMT MARKERS TP 3	EA	186		
615-1100	DIRECTIONAL BORE PIPE - 3 IN	LF	300		
636-1033	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	SF	5		
636-1041	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 9	SF	51		
639-4004	STRAIN POLE, TP IV	EA	4		
647-1000	TRAFFIC SIGNAL INSTALLATION NO - 1	LS	1		
682-6233	CONDUIT, NONMETL, TP 3, 2 IN	LF	960		
687-1000	TRAFFIC SIGNAL TIMING -	LS	1		

ITEM NO.	ITEM DESCRIPTION	U/M	QTY.	UNIT PRICE	EXTENSION
603-2181	STN DUMPED RIP RAP, TP 3, 18 IN	SY	123		
603-7000	PLASTIC FILTER FABRIC	SY	123		
700-6910	PERMANENT GRASSING	AC	4		
700-7000	AGRICULTURAL LIME	TN	10		
700-8000	FERTILIZER MIXED GRADE	TN	2		
700-8100	FERTILIZER NITROGEN CONTENT	LB	158		
716-2000	EROSION CONTROL MATS, SLOPES	SY	5520		
163-0232	TEMPORARY GRASSING	AC	2		
163-0240	MULCH	TN	79		
163-0300	CONSTRUCTION EXIT	EA	2		
163-0503	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 3	EA	5		
163-0527	CONSTRUCT AND REMOVE RIP RAP CHECK DAMS, STONE PLAIN RIP RAP/SAND BAGS	EA	12		
163-0539	CONSTRUCT AND REMOVE RETROFIT-SLOTTED BOARD DAM W/STONE FILTER	EA	1		
163-0550	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	EA	55		
165-0010	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	LF	1928		
165-0030	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	LF	282		
165-0041	MAINTENANCE OF CHECK DAMS - ALL TYPES	LF	120		
165-0096	MAINTENANCE OF RETROFIT-SLOTTED BOARD DAM W/ STONE FILTER	EA	1		
165-0087	MAINTENANCE OF SILT CONTROL GATE, TP 3	EA	5		
165-0101	MAINTENANCE OF CONSTRUCTION EXIT	EA	2		
165-0105	MAINTENANCE OF INLET SEDIMENT TRAP	EA	55		
167-1000	WATER QUALITY MONITORING AND SAMPLING	EA	3		
167-1500	WATER QUALITY INSPECTIONS	MO	12		
171-0010	TEMPORARY SILT FENCE, TYPE A	LF	3855		
171-0030	TEMPORARY SILT FENCE, TYPE C	LF	564		
999-8000	WATER QUALITY INLET FILTER BASKETS	EA	50		
999-9999	FIELD CONDITION ALLOWANCE	LS	1	\$ 30,000.00	\$ 30,000.00
CONSTRUCTION TOTAL					

NAME / TITLE

COMPANY

ADDRESS

PHONE/FAX/ E-MAIL

REV. ADDENDUM 2

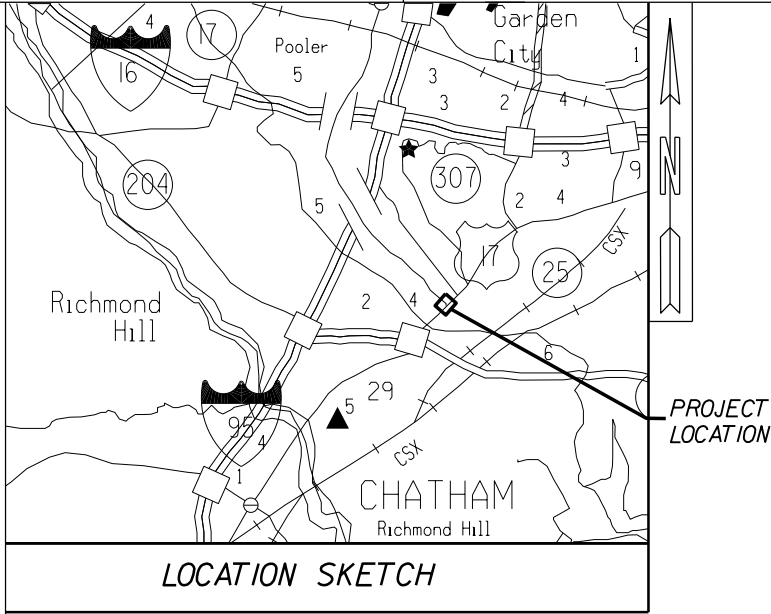
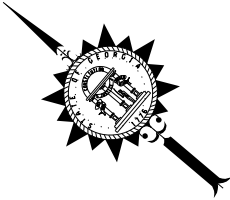
CHATHAM COUNTY

BOARD OF COMMISSIONERS

PLAN AND PROFILE OF PROPOSED

SR 25/US 17 AT QUACCO ROAD

INTERSECTION IMPROVEMENTS



DESIGN DATA: QUACCO ROAD
TRAFFIC A.D.T.: 14,830 (2020)
TRAFFIC A.D.T.: 18,900 (2040)
TRAFFIC D.H.V.: 1,600
DIRECTIONAL DIST: 59% EAST, 41% WEST
% TRUCKS: 0.3%
24 HR. TRUCKS %: 4%
SPEED DESIGN: 40 MPH

DESIGN DATA: SR 25/US 17
TRAFFIC A.D.T.: 28,350 (2020)
TRAFFIC A.D.T.: 35,375 (2040)
TRAFFIC D.H.V.: 2,845
DIRECTIONAL DIST: 60% SOUTH 40% NORTH
% TRUCKS: 1%
24 HR. TRUCKS %: 9%
SPEED DESIGN: 45 MPH

FUNCTIONAL CLASS:
SR 25/US 17: URBAN PRINCIPAL ARTERIAL
QUACCO ROAD: URBAN MINOR ARTERIAL

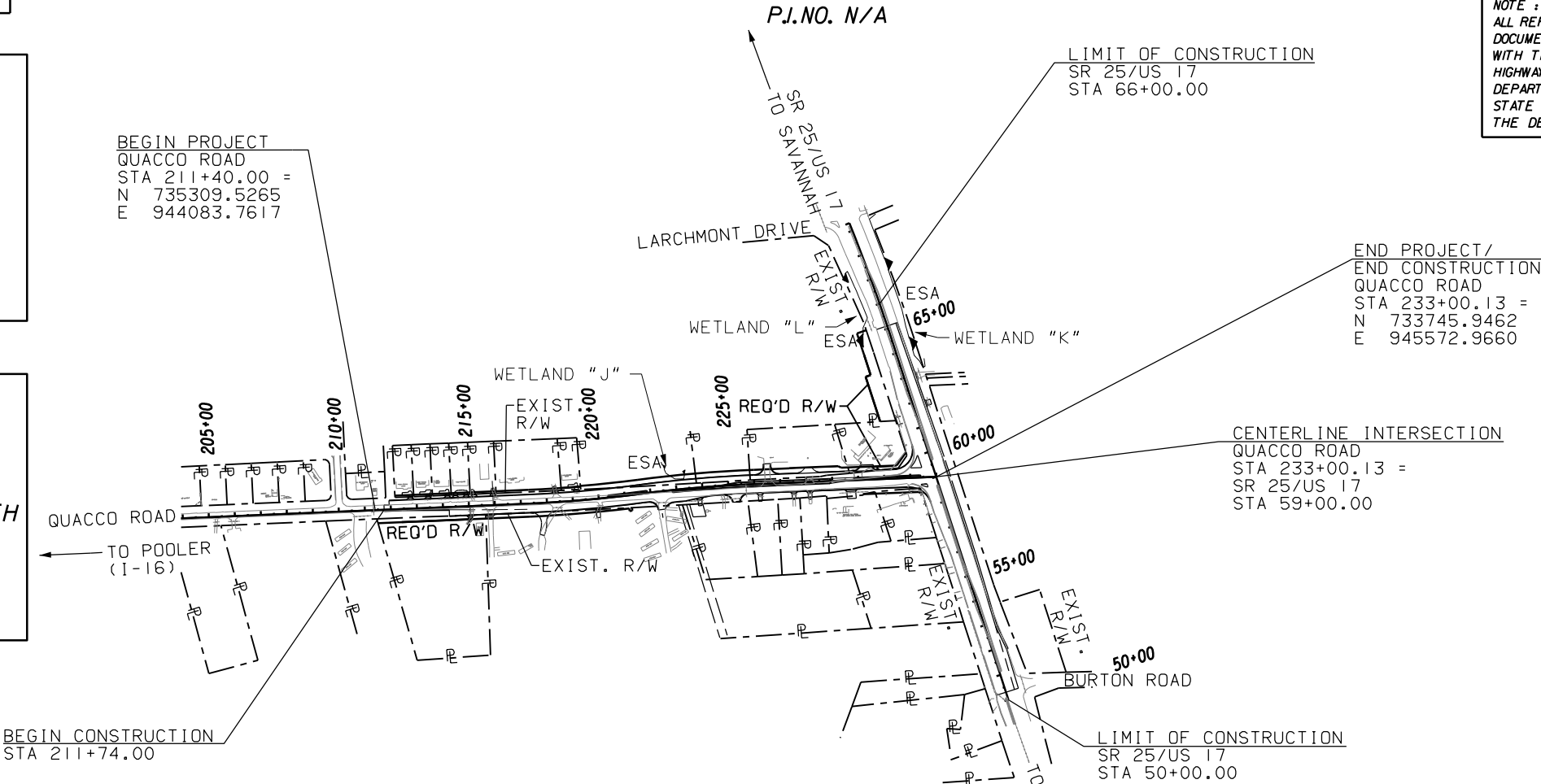
THIS PROJECT IS 100% IN CHATHAM COUNTY AND IS 100% IN CONGRESSIONAL DISTRICT NO. 01.

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983)/94 EAST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.

PROJECT MIDPOINT

STA 222+20.07
N 734532.1424
E 944832.8451



NOTE :
ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO "STATE HIGHWAY DEPARTMENT OF GEORGIA," "STATE HIGHWAY DEPARTMENT," "GEORGIA STATE HIGHWAY DEPARTMENT," "HIGHWAY DEPARTMENT," OR "DEPARTMENT" WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.

PREPARED BY:
moffatt & nichol

UNDER THE SUPERVISION OF:
DARREN J. WILTON, P.E.

GEORGIA REGISTERED
No. 39533
PROFESSIONAL
ENGINEER
Darren J. Wilton
DARREN J. WILTON
5/28/19

LENGTH OF PROJECT	COUNTY No. 051
	Project No. 1008322
	MILES
NET LENGTH OF ROADWAY	0.409
NET LENGTH OF BRIDGES	0.000
NET LENGTH OF PROJECT	0.409
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	0.409



PLANS COMPLETED	5-28-19	
REVISIONS		
06/19/19 : 03-0001, 05-0002, 05-0004,	26-0008, 54-0008, 54-0016, 54-0024	
05-0005, 05-0006, 06-0001, 06-0002,		
06-0003, 13-0006, 13-0007, 13-0008,		
23-0009, 23-0010, 23-0011, 23-0012,		
23-0013, 24-0006, 24-0007, 24-0008,		
26-0008, 54-0016, 54-0024		
06/21/19 : 03-0001, 06-0001, 06-0002,		
06-0003, 13-0008, 18-0001, 24-0008,		

DRAWING No.
01-0001

TRAFFIC CONTROL PROJECT
LUMP SUM

GRADING COMPLETE PROJECT
LUMP SUM

REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL
CY
625

SUMMARY OF QUANTITIES

SUMMARY OF SURFACING QUANTITIES																										
LOCATION	ROADWAYPAVING									CURB & GUTTER AND MEDIAN PAVING						DRIVEWAYS								AGGREGATE SURFACE COURSE	CONCRETE SIDEWALK 4 INCH	CONCRETE HEADER CURB 10 IN, TP 4
	ASPHALTIC CONCRETE - MAINLINE & PAVED SHOULDER			GRADED AGGREGATE BASE COURSE, INCL MATL	TACK COAT GL	RECYCLED ASPHALTIC CONCRETE LEVELING INCL BITUMMATL & H LIME	MILL ASPH CONC PVMIT VARIABLE DEPTH	CLASS B CONC. BASE OR PVMIT WIDENING	FABRIC STRIPS, TYPE 2, 18 INCH WIDE							RECYCLED ASPH CONC, 12.5 mm SUPERPAVE, GP 2 ONLY, INCL BITUMMATL & H LIME	RECYCLED ASPH CONC, 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUMMATL & H LIME	GRADED AGGR BASE COURSE INCL MATL	TACK COAT GL	DRIVEWAY CONCRETE, 4 INCH	DRIVEWAY CONCRETE, 6 INCH	CONCRETE VALLEY GUTTER 6 INCH	CONCRETE VALLEY GUTTER 8 INCH			
	RECYCLED ASPH CONC, 12.5 mm SUPERPAVE, GP 2 ONLY, INCL BITUMMATL & H LIME	RECYCLED ASPH CONC, 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUMMATL & H LIME	RECYCLED ASPH CONC, 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUMMATL & H LIME																							
	SY	SY	LF	SY	SY	LF	LF	LF	LF	LF	LF	LF	LF	LF	SY	SY	SY	SY								
	212+40-214+00 - SHEET 1	104	41		259	84		153	14	453	11				206			48		138		30.0		260	227	
214+00-219+50 - SHEET 2	450	291		1833	469			4	1101	9				1029		43	209		209		230.0		744			
219+50-225+00 - SHEET 3	435	289		1823	461			5	1107	147				1093	755	19	71			28	37.0	37.0	882			
225+00-231+00 - SHEET 4	368	192		1210	342			91	1202	687				1192	1045	42	279			426	175.0		770	162		
231+00-232+50 - SHEET 5	160	86	92	573	147			9	380	46		216	60.0	383	287								213			
50+30-53+00 - SHEET 6	204	1	4	11	124		12427																			
53+00-58+00 - SHEET 7	361	47	142	347	253			65	375																	
58+00-61+00 - SHEET 5	234				142			33	254		130															
61+00-65+10 - SHEET 8	272	12	37	91	171				12							25	17	80	8							
					910	1379																				
AS DIRECTED:																										
PROJECT TOTAL:	2588	959	275	6147	3103	1379	12580	221	4884	900	130	216	60	3903	2087	129	17	687	8	347	454	472	37	260	2837	162

BARRIER FENCE	
LOCATION	BARRIER FENCE (ORANGE), 4 FT LF
227+75 - SHEET 4	18.8
228+43.77 - SHEET 4	28.0
PROJECT TOTAL:	46.8

RETAINING WALLS	
LOCATION	CLASS B CONCRETE, RETAINING WALL CY
Gravity Wall	12.4
PROJECT TOTAL:	12

CONSTRUCTION EXITS		
LOCATION	CONSTR. EXIT EA	MAINT. OF CONSTR. EXIT EA
	2	2
PROJECT TOTAL:	2	2

DRIVEWAY DRAINAGE		
LOCATION	FLARED END SECTION	
	18 INCH H=1-10 LF	18 IN, SIDE DRAIN EA
	LF	EA
DW25	35	2
PROJECT TOTAL:	35.3	2.0

RIGHT OF WAY MARKERS	
RIGHT OF WAY MARKERS	EA
	26
PROJECT TOTAL:	26

PERMANENT EROSION CONTROL							
	STONE DUMPED RIP RAP TYPE 3, 18 IN SY	PLASTIC FILTER FABRIC SY	PERMANENT GRASSING AC	AGRICULTURAL LIME TN	FERTILIZER MIXED GRADE TN	FERTILIZER NITROGEN CONTENT LB	EROSION CONTROL MATS, SLOPES SY
	SY	SY	AC	TN	TN	LB	SY
PROJECT TOTAL:	123	123	4	10	2	158	5520

TEMPORARY EROSION CONTROL																
	TEMPORARY GRASSING	MULCH	CONSTR. & REMOVE RETROFIT- SLOTTED BOARD DAM W/STONE FILTER	MAINT. OF RETROFIT-SLOTTED BOARD DAM W/STONE FILTER	CONSTR. & REMOVE SILT CONTROL GATE TYPE 3	MAINT. SILT CONTROL GATE TYPE 3	CONSTR & REMOVE RIP RAP CHECK DAMS, STONE PLAIN RIP RAP/SAND BAGS	MAINT. OF CHECK DAMS ALL TYPES	CONSTR & REMOVE INLET SEDIMENT TRAP	MAINT. OF INLET SEDIMENT TRAP	TEMPORARY SILT FENCE TYPE A	MAINT. OF SILT FENCE TYPE A	TEMPORARY SILT FENCE TYPE C	MAINT. OF SILT FENCE TYPE C	WATER QUALITY MONITORING & SAMPLING EA	WATER QUALITY MONITORING INSPECTIONS MO
			AC	TN	EA	EA	EA	EA	EA	LF	EA	EA	LF	LF	LF	LF
	PROJECT TOTAL:	2	79	1	1	5	5	12	120	55	55	3855	1928	564	282	3



REVISION DATES

06/19/19	06/21/19	

SUMMARY QUANTITIES

SR 25/US 17 AT QUACCO ROAD INTERSECTION IMPROVEMENTS

CHECKED:		DATE:		DRAWING No. 06-0001
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		

SUMMARY OF QUANTITIES

SUMMARY OF DRAINAGE QUANTITIES															
STR. NO.	LOCATION	STORM DRAIN PIPE				FOUND BK FILL MAT'L, TP II CY	OUTLET CONTROL STRUCTURE EA	CATCH BASINS STD 1033 & 1034		DROP INLET STD 1019-A		DROP INLET STD 9031-S		FLARED END SECTION	
		18 INCH H=1-10 LF	24 INCH H=1-10 LF	30 INCH H=1-10 LF	36 INCH H=1-10 LF			GROUP 1		GROUP 1		GROUP 1		STD 1120	
								H=6' OR LESS EA	ADD'L DEPTH LF	H=6' OR LESS EA	ADD'L DEPTH LF	H=6' OR LESS EA	ADD'L DEPTH LF	24 INCH STORM DRAIN EA	36 INCH STORM DRAIN EA
A28	212+05L	35.0				3.6		1							
A27	312+40L	28.0				2.9		1							
A26	212+61.83L	136.2				14.2				1					
A25	213+98L		36.6			4.7		1	0.3						
A24	214+34.5L		36.6			4.7				1					
A23	214+70L		37.1			4.8		1	0.4						
A23.1	214+70R		76.0			9.8		1	0.1						
A23.2	214+35R		35.0			4.5		1	0.0						
A22	215+07L		237.9			30.6				1					
A21	217+45L		124.0			16.0		1	0.6						
A20	218+17L		89.3			11.5		1	0.2						
A19	219+60L		46.6			6.0		1							
A18	220+07L		34.7			4.5		1							
A17	220+42L		34.7			4.5		1							
A16	220+77L			173.1		26.9		1	0.5						
A15	222+50L			75.6		11.7		1	0.8						
A14	223+25L			35.3		5.5		1	0.7						
A13	223+60L			35.3		5.5		1	0.7						
A12	223+95L			177.4		27.5		1	0.9						
A11	225+71L			35.3		5.5		1	1.0						
A10	226+06L				151.0	27.7						1	0.62		
A9	227+57L				113.0	20.7		1	1.7						
A8	228+70L				35.0	6.4		1	1.7						
A7	229+05L				50.0	9.2		1	1.8						
A6	229+55L				176.0	32.3		1	2.1						
A5	231+31L				30.0	5.5		1	2.7						
A4	231+61L				70.7	13.0						1	2.11		
A4.1	231+61R		76.6			9.9		1	1.9						
A4.1.1	230+04R		111.0			14.3		1	1.7						
A4.1.1A	230+10R	13.4				1.4									
A4.1.2	229+00R	104.0				10.8		1	0.5						
A4.1.3	228+70R	30.0				3.1		1	0.3						
A4.1.4	228+40R	30.0				3.1		1	0.3						
A4.1.5	227+90R	50.0				5.2		1	0.3						
A4.1.5A	228+00R	17.2				1.8									
A4.1.6	226+41R	149.0				15.5		1	0.3						
A4.1.6A	226+41R	16.0				1.7		1							
A4.1.7	226+06R	35.1				3.7						1			
A4.1.8	225+76R	29.8				3.1						1			
A4.1.8A	225+76R	20.5				2.1									
A4.2	231+91R	30.0				3.1									
A4.3	232+10.04R	27.0				2.8									
A3	60+10L				107.7	19.8				1	2.14				
A2	61+17.63L				66.8	12.3						1			
A1	61+87.77L														1
B10	217+27R	124.9				13.0		1							
B9	218+51R	89.7				9.3		1							
B8	219+40R	69.6				7.2		1							
B7	220+09R		33.3			4.3				1					
B6	220+42R		35.3			4.5		1							
B5	220+77R		40.0			5.1		1							
B4	221+17R		183.4			23.6		1	0.1						
B4.1	221+17R	11.3				1.2									
B3	223+01R		35.6			4.6		1							
B2	223+37R		14.4			1.9		1							
B2.1	224+15R	7.8				0.8		1							
B2.2	224+16.29R	8.9				0.9								1	
B1	223+34.61R													1	
OCS	64+78L		23.2					1						1	
AS DIRECTED:															
PROJECT TOTAL:		1063.4	1341.3	531.9	800.1	509.9	1	39	21.6	5	2.1	5	2.7	3	1

SUMMARY OF SIGNING QUANTITIES													
LOCATION	CODE	HIGHWAY SIGNS									POSTS		
		TYPE 9 SHEETING						TYPE 11 SHEETING			TYPE 7		
		TYPE 1 MATERIAL			TYPE MATERIAL 2			TYPE 1 MATERIAL			LENGTH	TOTAL	
		SIZE	QTY	SF	SIZE	QTY	SF	SIZE	QTY	SF	LF	QTY	LF
50+97R	W16-8P	36x12	1	3.00							15.00	1	15.00
50+97R	W2-2	30x30	1	6.25							15.00	1	15.00
56+00L	W2-2	30x30	1	6.25							15.00	1	15.00
62+00R	W2-2	30x30	1	6.25							15.00	1	15.00
219+00R	W2-2	30x30	1	6.25							15.00	1	15.00
51+35L	R5-1							36x36	1	9.00	15.00	1	15.00
58+65R	R5-1							36x36	1	9.00	15.00	1	15.00
60+12L	R5-1							36x36	1	9.00	15.00	1	15.00
227+00	R5-1							36x36	1	9.00	15.00	1	15.00
53+35L	R5-1A							42x30	1	8.75	15.00	1	15.00
57+00R	R5-1A							42x30	1	8.75	15.00	1	15.00
62+04L	R5-1A							42x30	1	8.75	15.00	1	15.00
56+00R	W16-8P	35x12	1	2.92									
58+65L	R4-7	24x30	1	5.00							15.00	1	15.00
59+34R	R4-7	24x30	1	5.00							15.00	1	15.00
232+35L	R4-7	24x30	1	5.00							15.00	1	15.00
231+82L	R1-2							36 TRI	1	4.00	15.00	1	15.00
232+50R	R1-2							36 TRI	1	4.00	15.00	1	15.00
60+39L	R560-5	18x24	1	3.00							15.00	1	15.00
232+15R	R560-5	18x24	1	3.00							15.00	1	15.00
62+00R	W16-8P	45x12	1	3.75									
64+35L	R4-4A	36x30	1	7.50							15.00	1	15.00
212+50L	W6-3	36x36	1	9.00							15.00	1	15.00
212+50R	W6-1	36x36	1	9.00							15.00	1	15.00
219+00R	W16-8P	47x12	1	3.92									
222+50L	W4-2	36x36	1	9.00							15.00	1	15.00
222+64R	R1-1							36x36	1	9.00	15.00	1	15.00
225+57R	R1-1							36x36	1	9.00	15.00	1	15.00
226+07L	R1-1							36x36	1	9.00	15.00	1	15.00
227+70L	R1-1							36x36	1	9.00	15.00	1	15.00
230+05R	R1-1							36x36	1	9.00	15.00	1	15.00
225+32L	R6-1R				54x18	1	6.75				15.00	1	15.00
226+50R	R6-1R				54x18	1	6.75				15.00	1	15.00
228+10L	R6-1R				54x18	1	6.75				15.00	1	60.00
230+30L	R6-1R				54x18	1	6.75				15.00	1	15.00
226+00R	R3-7R	36x36	1	9.00							15.00	1	15.00
227+00L	W9-2L	36x36	1	9.00							15.00	1	15.00
227+97R	W3-3	30x30	1	6.25							15.00	1	15.00
229+00L	R2-1-40	30x36	1	7.50							15.00	1	15.00
229+00R	W11-1	30x30	1	6.25							15.00	1	15.00
59+11R	W1-7	48x24	1	8.00							15.00	1	15.00
59+06R	OM4-3	18x18	1	2.25							15.00	1	15.00
59+16R	OM4-3	18x18	1	2.25							15.00	1	15.00
223+26R	CAT		2	2.00							15.00	1	15.00
223+26L	CAT		2	2.00							15.00	1	15.00
PROJECT TOTAL:				149		27			124				690



REVISION DATES

06/19/19	06/21/19	

SUMMARY QUANTITIES

SR 25/US 17 AT QUACCO ROAD

INTERSECTION IMPROVEMENTS

CHECKED:		DATE:		DRAWING No. 06-0002
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		

SUMMARY OF QUANTITIES

SUMMARY OF STRIPING QUANTITIES													
LOCATION	THERMOPLASTIC PAVEMENT MARKINGS											RAISED PAVEMENT MARKERS	
	ARROW TYPE 2 EA	ARROW TYPE 7 EA	WORD TYPE 1 EA	SYMBOL TYPE 4 EA	SOLID STRIPE				SKIP STRIPE	HATCHING		TYPE 1 EA	TYPE 3 EA
					5 INCH		24 INCH	8 INCH	5 INCH	WHITE SY	YELLOW SY		
					WHITE LF	YELLOW LF	WHITE LF	WHITE LF	WHITE GLF				
212+40-214+00 - SHEET 1					160	62				235	67	14	
214+00-219+50 - SHEET 2					827			253	127	156	1004	55	
219+50-225+00 - SHEET 3	2				1047	480	12.5	146	877	175	466	26	22
225+00-231+00 - SHEET 4	3		3		1452	1201	84.1	1951	12225				38
231+00-232+50 - SHEET 5	6		3		782	287	24	483	136	247			16
50+30-53+00 - SHEET 6	2				1010	179			946		113		18
53+00-58+00 - SHEET 7	4		4		2183	729			1557	26	119		48
58+00-61+00 - SHEET 5	2	2		3	724	273	94.0	883	682		166		22
61+00-65+10 - SHEET 8	2				1103	548			1371		212		21
PROJECT TOTAL:	21	2	10	3	9288	3758	215	3715	17920	839	2147	96	186

SUMMARY OF SIGNAL QUANTITIES							
LOCATION	INSTL NO.	LUMP	DIRECTIONAL BORE 3 IN	HIGHWAY SIGNS TP 1 MATL REFL SHEETING TP 9	HIGHWAY SIGNS TP 2 MATL REFL SHEETING TP 9	STRAIN POLE TP IV	CONDUIT RIGID 2 IN
			LF	SF	SF	EA	LF
US 17 @ Quacco Road	1	1	300	5	51	4	960
PROJECT TOTAL:			300	5	51	4	960

SPAN WIRE SIGNS							
LOCATION	CODE	HIGHWAY SIGNS			STRAIN POLES		STEEL WIRE
		TYPE 9 SHEETING			SPAN	TYPE	STRAND CABLE,
		SIZE	QTY	SF	LENGTH	IV	3/8 IN
56+00L	R3-5	30x36	2	30	132.00	2	164
PROJECT TOTAL:				30		2	164

FENCING		
LOCATION	CHLK FENCE ZINC COATING 6FT, 9GA	GATE, CHAIN LINK ZC COAT 6FT X 15 FT, 9GA
	LF	EA
STA 61+80.00 to STA 65+00.00	760	1
PROJECT TOTAL:	760	1



REVISION DATES

06/19/19	06/21/19	

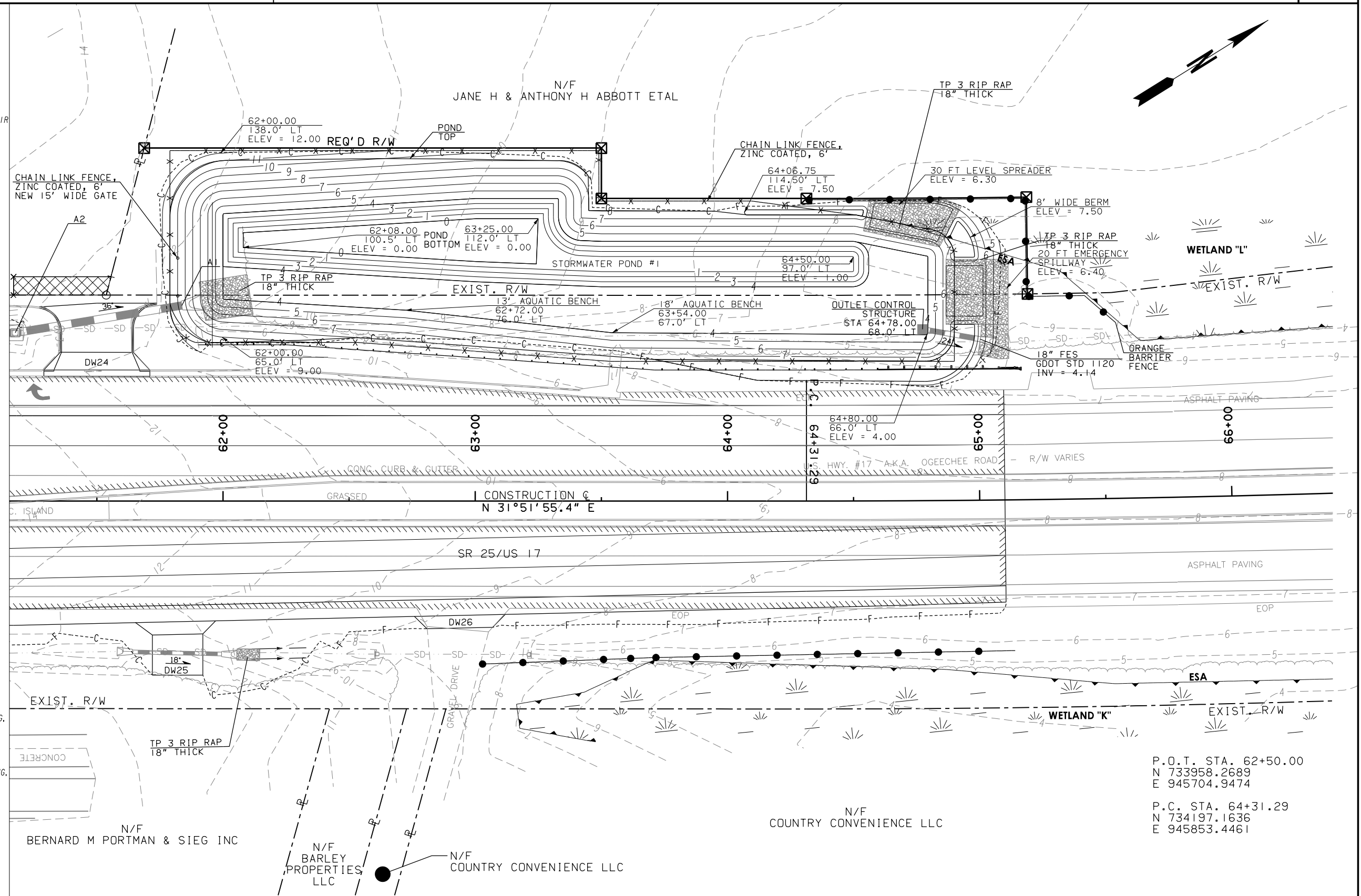
SUMMARY QUANTITIES

SR 25/US 17 AT QUACCO ROAD
INTERSECTION IMPROVEMENTS

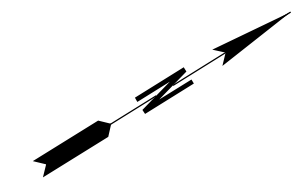
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BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		



CHECKED:	DATE:	DRAWING No. 13-0008
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



CHECKED:	DATE:	DRAWING No. 18-0001
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



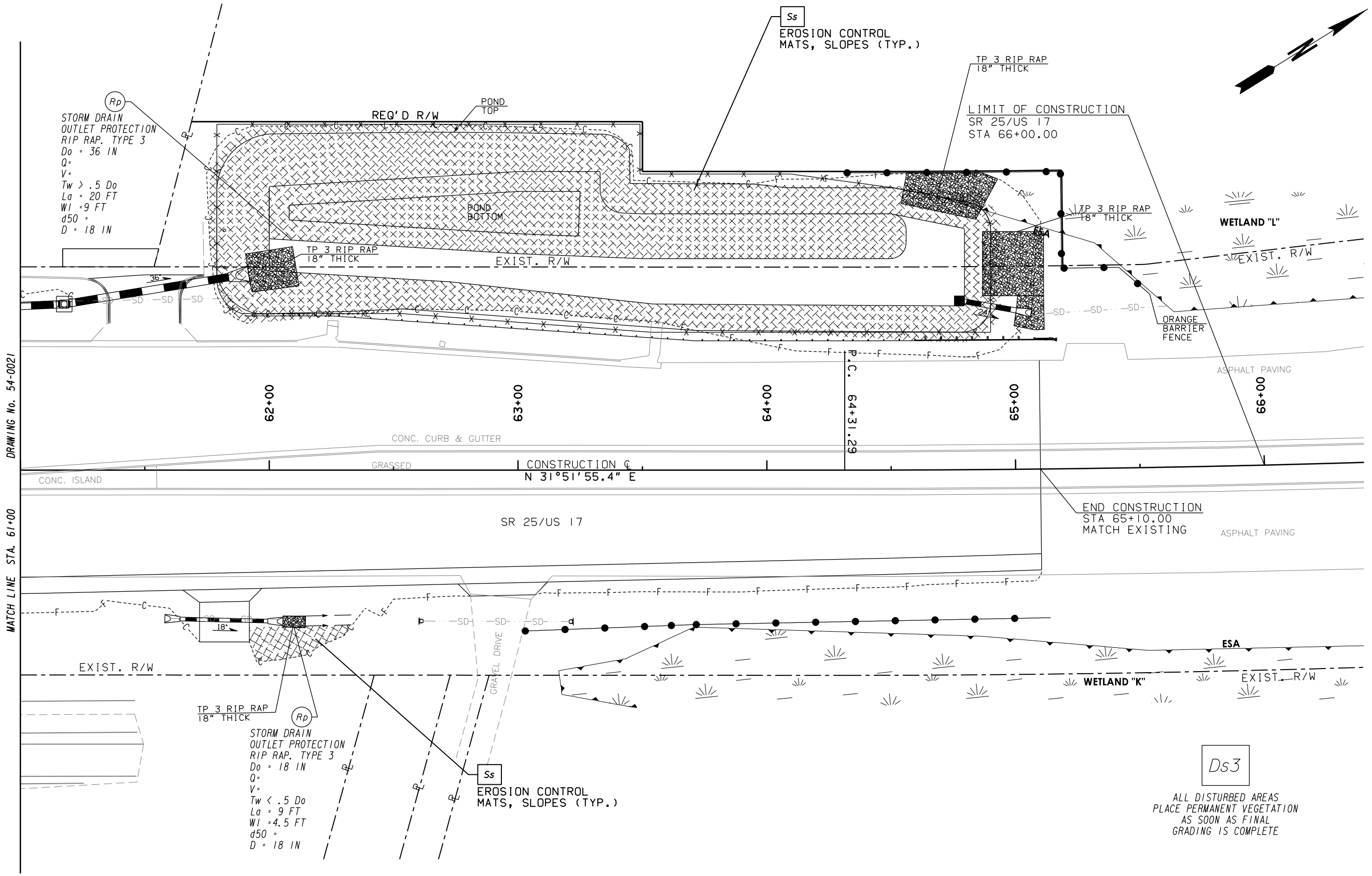
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BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



CHECKED:	DATE:	DRAWING No. 54-0008
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



CHECKED:	DATE:	DRAWING No. 54-0016
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

mo

fatt & nichol

SCALE IN FEET

0

20

40

80

REVISION DATES

DATE	DESCRIPTION
06/19/19	06/21/19

BMP LOCATION DETAILS
FINAL PHASE BMP LOCATION DETAILS
SR 25/US 17 AT QUACCO ROAD
INTERSECTION IMPROVEMENTS

CHECKED: DATE: DRAWING No.

BACKCHECKED: DATE:

CORRECTED: DATE:

VERIFIED: DATE:

54-0024

10/23/2015

GPLN