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		ASSET ID 10297
	TRAFFIC DATA	
-	<u> </u>	3 DAYS BEFORE DIGGING IN SOUTH CAROLINA
-	<u> 2044 </u>	CALL 811

5-14 DATE WBA LKA BY CHK D VED DR.

TRAFFIC DATA								
2024	_ ADT	16,100	V.P.[
2044	_ ADT	19,600	_ V.P.[
TR	UCKS _	7.5 *	/ a					

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA
CALL 811
SOUTH CAROLINA 811 (SC811) WWW.SC811.COM ALL UTILITIES MAY NOT BE A MEMBER OF



NET LENGTH OF ROADWAY	0.000	MILES
NET LENGTH OF BRIDGES	0.066	MILES
NET LENGTH OF PROJECT	0.066	MILES
LENGTH OF EXCEPTIONS	0.000	MILES
GROSS LENGTH OF PROJECT	0.066	MILES



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·									
TABULATION OF ESTIMATED QUANTITIES (1 OF 2)									
ITEM	REMOVAL & DISPOSAL OF EXISTING BRIDGE	2.0" SCHEDULE 80 PVC CONDUIT	CONCRETE FOR STRUCTURES CLASS 4000	COMPRESSION SEAL JOINT	GROOVED SURFACE FINISH	REINFORCING STEEL FOR STRUCTURES (BRIDGE)	HOOP REINF. STEEL FOR STRUCTURES (BRIDGE)	PRESTRESSED CONC. BEAMS TYPE IV	CONCRETE BRIDGE RAILING (3'-6" HT.)
	LS	L.F.	CY	LF	SY	LBS	LBS	LF	LF
End Bent I			66.4			11,186			
Interior Bent 2			73.2			27,372	6339		
Interior Bent 3			69.6			27,256	6313		
Interior Bent 4			68.0			25,599	5637		
End Bent 5			66.4			11,139			
350′-3" Superstructure		/565.0	1062.4		2449	249,793 *		3120	700.5
Approach Slabs			143.2	159.8		39,968 **			80.0
	Nooceani	1505.0	15.40.0	150.0	0.140	200 212	10.220	7/00	700 5
TOTALS	Necessary	1565.0	1549.2	159.8	2449) 392,313	18,289	3120	180.5

 st Includes reinforcing in Pedestrian Railing Wall and 1362 Lbs.for Tie Bar Assemblies.

** Includes reinforcing in Pedestrian Railing Wall.

TABULATION OF ESTIMATED QUANTITIES (2 OF 2)									
ITEM	PILE DRIVING SETUP	REINF. PILE TIPS (HP 14 X 89)	STEEL H BEARING PILING (HP 14 X 89)	DRILLED SHAFT SETUP	DRILLED SHAFT WITH ROCK EXCAVATION 42" DIAMETER	DRILLED SHAFT WITH WET & DRY EXCAVATION 48" DIAMETER	CONSTRUCTION CASING 48" DIAMETER	ELASTOMERIC BEARING	CROSSHOLE SONIC LOGGING SETUP
	EA	EA	LF	EA	LF	LF	LF	EA	EA
End Bent I	17	17	678						
Interior Bent 2				5	27.5	132.3	132.3		5
Interior Bent 3				5	27.5	140.4	140.4		5
Interior Bent 4				5	27.5	//9.0	119.0		5
End Bent 5	17	17	550						
350'-3" Superstructure								72	
Approach Slabs									
TOTALS	34	34	1228	15	82.5	391.7	391.7	72	/5

Note: HPI4x89 steel piling shall conform to the latest AASHTO specification for M270 steel and have a minimum yield strength of 50 ksi.

	SUMMARI OF ESIMATED QUAN		1
ITEM NO.	BID ITEM	UNIT	QUANTITY
2028100	REMOVAL & DISPOSAL OF EXISTING BRIDGE	LS	NECESSARY
675Ø278	2.0" SCHEDULE 80 PVC CONDUIT	LF	1565.0
7Ø114ØØ	CONCRETE FOR STRUCTURES - CLASS 4000	СҮ	1549.2
7020300	COMPRESSION SEAL JOINT	LF	159.8
7023200	GROOVED SURFACE FINISH	SY	2449
7Ø312ØØ	REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LBS	392,313
7Ø3122Ø	HOOP REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LBS	18,289
7044000	PRESTRESSED CONCRETE BEAM (TYPE IV)	LF	312Ø
7054000	CONCRETE BRIDGE RAILING (3'-6" HT.)	LF	780.5
7110010	PILE DRIVING SET-UP	EA	34
7111565	REINF. PILE TIPS (HP 14 X 89)	EA	34
711223Ø	STEEL H BEARING PILING (HP 14 X 89)	LF	1228
7120006	DRILLED SHAFT SET-UP	EA	15
712Ø152	DRILLED SHAFT WITH ROCK EXCAVATION - 42" DIAMETER	LF	82.5
712Ø161	DRILLED SHAFT WITH WET & DRY EXCAVATION - 48" DIAMETER	LF	391.7
712Ø165	CONSTRUCTION CASING-48" DIAMETER	LF	391.7
7243100	ELASTOMERIC BEARING	EA	72
7270010	CROSSHOLE SONIC LOGGING SETUP	EA	15
8Ø1121Ø	AGGREGATE UNDERDRAIN #789 W/ 4"PERF.PIPE FOR STRUCTURES	TON	312
8142100	WATERPROOFING (SUBSTRUCTURE - SECOND METHOD)	SY	45.5



	REV.				YORK COUNTY			
	REV.				PENNIES FOR PROGRESS			
CAROLINA CAROLINA					SUMMARY OF			
NV5 VGINEERS Z	REV.				ESTIMATED QUANTITIES			
IL TANTS, INC.	REVIEWED				SC 557			
C00957	QUAN.				BDINGE AVED CDAWNEDS CDEEK			
	DR.	WBA	LKA	9-14	DITIDOR OVER CITOWDERS CITERE			
L. Kevin austin 11/8/2022	DES.	ZHB	LKA	5-14	COUNTY ROUTE			
C2465111037F480		BY	CHK.	DATE	YORK SC 557			

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MATERIAL & WORKMANSHIP

Provide all material and workmanship in accordance with the South Carolina Department of Transportation 2007 Standard Specifications for Highway Construction, unless otherwise specified on the Plans or in the Special Provisions.

COORDINATION OF PLANS, SPECIFICATIONS, AND SPECIAL PROVISIONS

Generally, in case of discrepancy, this General Notes sheet governs over the Standard Specifications but the remainder of the plans govern over notes on this sheet and Special Provisions govern over all. See Subsection 105.4 of the Standard Specifications.

WATER ELEVATIONS

The water elevations shown in the plans are for information only and the actual water elevation during construction may vary depending on weather conditions and seasonal fluctuations.

COMPLETION DATES

On inside face of right side barrier parapet/railing at beginning of bridge and on left side barrier parapet/railing at end of bridge, place year of completion adjacent to guardrail attachment. Place this completion date so that it will not be covered by the guardrail connector when it is installed. Recess numbers in the concrete using numbers fabricated from reusable/durable material that is approved by the RCE. Provide numbers in accordance with SCDOT Standard Drawing No. 702-305-00.

REINFORCING STEEL

Fabricate reinforcing bars in accordance with the current C.R.S.I. Manual of Standard Practice except for ties, stirrups, and welded hoops.

Provide all ties and stirrups with 135° hooks that have extensions no less than the larger of ten bar diameters or six inches. This 135° hook requirement does not apply to stirrups extending from prestressed concrete beams.

The fabrication tolerance for out-to-out dimension of welded hoop diameter is $\pm \frac{1}{2}$ inch.

Do not use lap splices in column and shaft reinforcing steel.

PRESTRESSED CONCRETE BEAMS

Beam lengths given are based on horizontal span only. Increase lengths to correct for concrete shrinkage, concrete shortening when the strands are cut, and for beams being on a grade.

All overhang brackets in the top flange of exterior beams shall be galvanized in accordance with AASHTO M 111, AASHTO M 232, or ASTM F 2329 as appropriate and shall be detailed accordingly in the shop plans.

CONCRETE

Provide the class of concrete as noted in the contract documents. For cast-in-place structural elements, use Class 4000 concrete where the class of concrete is not specified in the contract documents.

When holes are cast in beams to accommodate falsework, fill the holes with a non-shrink structural grout suitable for overhead repairs after falsework is removed.

After erection of the beams and prior to the erection of the deck slab falsework, measure beam cambers. Compare the measured beam cambers to the values shown on the Plans to aid in determining if field adjustments are needed. Submit beam camber measurements and any proposed field adjustments to the RCE for approval. All cost of performing this work is considered incidental to the Contract and no additional compensation is allowed for the performance of this work.

Payment for concrete in slab is based on theoretical plan quantity. No adjustment is made for variation in camber.

Chamfer all exposed edges $\frac{3}{4}$ unless otherwise noted.

The minimum acceptable concrete cover for reinforcing steel is $\frac{1}{2}$ less than the plan dimensions when required by reinforcing bar fabrication tolerances.

Cast build-ups and shear keys on bent caps monolithic with the cap unless indicated otherwise in these plans. Construct the top of each build-up level.

GRINDING & TEXTURING CONCRETE DECKS

For bridge stage construction projects, grind and texture the bridge decks as necessary near the stage longitudinal construction joints in order to meet the longitudinal and transverse rideability and rolling straightedge requirements of the Contract.

Prior to casting any closure pour, grinding, or texturing, make profile line surveys (2 to 6 as determined by the RCE) of each stage of the bridge decks. Make one of these profile line surveys for each stage along the edge of the deck adjacent to the closure pour. Compare the surveys within each stage and compare the surveys of each stage to surveys of the adjacent stage to aid in determining the amount of grinding and texturing needed to meet the rideability and rolling straightedge requirements. Submit all grinding and texturing procedures, plotted survey profiles, and proposed grinding depths to the RCE for approval. Maintain a final cover of 2"minimum over the bridge deck reinforcing steel.

Follow the above procedures for all stages of the work. For all surveys performed on the same bridge, use identical stations for survey shots in order to facilitate survey comparisons. All costs for performing, evaluating, and submitting the surveys are considered incidental to the Contract and no additional compensation is allowed for the performance of this work.

Payment for grinding and texturing concrete bridge decks at the junction of new and existing bridge deck slabs is determined in accordance with Subsection 702.6 of the Standard Specifications. No payment is made for grinding and texturing of new bridge decks to correct irregularities and excessive deviations.

In setting forms for structural steel or prestressed concrete beam spans, apply an allowance to the design finished grade to compensate for computed dead load deflections.

Prior to making deck pours on any stage construction work, and bridge widening projects, consider and make adjustments as necessary for partially loaded beams adjacent to closure pour areas. Verify that any proposed adjustment on partially loaded beams does not create a change in the deck thickness or a reduction in the concrete cover over the reinforcing steel. Welded studs on steel beams and reinforcing steel extending up out of prestressed beams shall meet the requirements for a composite section (extend up into the deck past the bottom mat of reinforcing steel) regardless of any adjustments.

In setting falsework for reinforced concrete spans, make an allowance for the deflection of the falsework, for any settlement of the falsework, for the instantaneous dead load deflection of the span, and for the long-time dead load deflection of the span such that on removal of the falsework the top of the structure shall conform to theoretical finished grade plus the allowance for long-time deflection.

For instantaneous and long-time dead load deflection, use a camber of $\frac{1}{8}$ for concrete flat slab spans 22 feet in length, $\frac{3}{16}''$ for concrete flat slab spans 30 feet in length, and $\frac{3}{8}''$ for concrete flat slab spans 40 feet in length, unless otherwise directed by the RCE. Adjust these cambers as necessary to allow for falsework deflection, falsework settlement, and vertical curve ordinates.

PERMANENT STEEL BRIDGE DECK FORMS

Permanent stay-in-place steel bridge deck forms for concrete deck slabs may be used at the Contractor's option.

DRIVEN PILE FOUNDATIONS

Where prestressed concrete piles are to be driven through fill, install piles in pre-bored holes extending to the original ground. For square prestressed concrete piles, bore holes having a minimum diameter of 1.25 times the nominal pile size. Include all cost of pre-boring fills for pile installation in the unit price bid for the piles.

EXCAVATION FOR END BENTS

Include all cost of excavation necessary to construct end bents and to remove material under superstructure to an elevation twelve inches below tops of end bent caps, in the unit price bid for class of concrete specified in the Plans.

If a concrete footing is used for the end bent, the excavation below that included for the cap and berm in the above paragraph is paid for at the unit price bid for excavation. Include excavation above this in the unit price bid for class of concrete specified in the Plans.

ALLOWANCE FOR DEAD LOAD DEFLECTION & SETTLEMENT

Notify the Department and the Fabricator of the beams if using this option so that shop plans can be properly detailed.

Where piles occur in fill, place fill before driving piles.

STRUCTURAL STEEL

Layout dimensions and standard lengths of beams shown dimensions which must be increased when bridge is on gr

When holes are placed in webs to accommodate falsework strength bolts in the holes after falsework is removed.

Notify the Department of the name and address of the F structural steel as soon as the Fabricator has been gi fabricate so that the inspection procedure can be set

Do not field or shop weld erection hardware to the str

Make all bolted connections with $\frac{7}{8}''$ dia. ASTM F3125, G otherwise indicated.

Generally, holes for l_{8}'' dia. bolts shall be l_{16}'' dia. straight girder spans, oversized holes, ⁵/16" larger th be used in diaphragms and/or crossframes and their conr plates provided hardened washers are installed over over in the outer ply of the material gripped. Hardened wash under DTIs on oversized holes. In every case install washer under the element turned for each bolt of a bol Indicate on the Shop Plans which holes are to be overs hardened washers are required. No additionalpayment i costs associated with the use of oversize holes and fur hardened washers as necessary.

PAINT FOR STRUCTURAL STEEL

Paint structural steel in accordance with Section 710 Specifications.

BEARING ASSEMBLIES

If bearing assemblies support weathering steel beams or bearing assembly components from weathering steel and NS2 Paint System, Galvanize all other bearing assembl with AASHTO M 111, AASHTO M 232, or ASTM F 2329 as app

After the required field welding of painted bearing ass repair the weld areas and/or any damaged areas to the with Subsection 710.4.2 of the Standard Specifications. field welding of galvanized bearing assemblies, field areas and/or damaged areas of the galvanized coating i ASTM A 780.

Include all cost of furnishing and installing steel bed components in the lump sum price bid for structural ste for structural steel is included in the project. Other cost in the unit price bid for prestressed beams.

ANCHOR BOLTS

Galvanize all components of anchor bolt assemblies in AASHTO M 232 or ASTM F 2329 as applicable. The weight assemblies is included in the bent quantities for rein-Include all costs of furnishing and installing anchor in the unit price bid for reinforcing steel.

ORIENTATION IN RELATION TO STAT Left and right sides, where referred to in these plans to direction of stationing.

FINAL FINISH OF EXPOSED CONCRETE

Apply the final surface finish on the bridge(s) only to checked and designated bridge areas:

- ΠΑ) Entire surface of all barrier rails, parape approach slab curbs, concrete utility supp and wing walls; outside vertical edge of br deck slabs and sidewalks.
- □ B) Outside face of exterior prestressed girder
- C) Entire surface of designated substructure except top of bent caps and piers.

🗌 All Units 🗌 De

No final surface finish required.



							0	041800-BC)1	3
	SPECIF	ICA	TION	S						
are horizontal rade.	AASHTO 20	17 LR	FD Brid	dge Design	Specifico	itions, 8th	Editi dition	on.		
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abricator of the ven the contract to Jp.	DESIGN Load and	I D ⊿ Resis	ATA tance (- actor Des	ign (LRFD)) Method				
uctural steel members.	Live Load	8 9	AASI	HTO HL-93	Loading					
rade A325 bolts unless	The top ^{I,} and is no section p	f of t inc roper	all cc luded ties.	ncrete slo in the slo	abs is con b depth us	sidered as sed for the	a wear calcu	ing surfo lation of	JCe	
However,for an bolt dia, may nection ersize holes	All bolte prestress havina Cl	d con ed co ass "	nection ncrete B″con	ns, except beams, ar tact surfa	for steel e designed ces.	diaphragm d as slip-ci	member ritica	rs used w I connect	ith ions	
ers are required a hardened	An extra	dead	load o	f 0.016 KS	F is incor	porated in	to_the	design o	f	
ted connection. ize and where	this stru	cture		commodate	the use of	steel stay	y-in-p	lace form	S.	
s made for the rnishing additional	of this s	dedd truct	ure as	an allowa	nce for a	future wear	ro the fing si	urface.		
	Seismic D Design Sp the follo	esign ecifi wing	is in cation parame	accordanc s for High ters:	e with the way Bridge	e 2008 SCDO es", Version	T "Sei n 2.0,	smic with		
of the Standard	Seis	mic D	esign (Category:	А					
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r girders, fabricate	Oper	ation		ssificatic	n: II					
paint them using the ies in accordance licable,	Desi	Clas gn Ac	s: C celera	tion Coeff	icients:					
semblies, field paint in accordance	PGA (FEE):	0	.04 g						
• After the required repair the weld > accordance with	Sds (Sd1 (PGA (FEE): SFF):	0	.08 g .04 g .11 a						
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aring assembly eel if a bid item	FEE Acc	celer	ation [)esign Data]	SEE A	cceler	ation Des	ign nta	
rwise, include the	Period		Peric	$d S_a$	-	Period	S_a	Period	Sa	
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of anchor bolt forcing steel.	0.05 0	• 06	1.26	0.03	-	0.06	0.14	1.28	0.08	}
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ND ANTS, INC. 20591	REVIEWED		II LUI	II 10 IF 10 IF 10		SC 55	7		- <u>مع</u> ر مطل	7
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L. Kevin Austin 11/8/2022	DES.			COUNTY			R	OUTE		
	BY	UHK.	DATE	TUKK			5	U 221		

SHEET NO.

BRIDGE PLANS ID

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DRAIN DETAILS

Provide drain pipes that are 6" nominal diameter fiberglass pipe meeting the requirements of ASTM D 2996 and the accelerated UV weathering performance requirements of ASTM G 154.

Provide pipe that has pigmented resin throughout the wall. Paint, gel-coat, or exterior coating will not be accepted. Color shall be light gray (Federal Shade No. 26622) for concrete.

Galvanize plate, bolts, and nuts in accordance with AASHTO M 111, AASHTO M 232, or ASTM F 2329 as applicable. Paint U-bolt assemblies Federal Shade No. 26622 to match the beam.

To anchor the pipe, cement at least two suitable lugs of a satisfactory size to the portion of the pipe to be embedded in the concrete slab.

Include all costs of furnishing and placing drains in the unit price bid for Class 4000 concrete. Include all costs of furnishing and painting U-bolt assemblies in the lump sum bid for structural steel.

A1601/ A1610 Bars mat be shifted slightly as necessary to avoid deck drains. A Bars may not be cut.



NV5 ENGINEERS AND CONSULTANTS, INC.

No. C00957



BRIDGE PLANS ID

b41800qd2.dgn



per inch and a maximum of 4 openings per inch.

steel with a minimum wire diameter of 0.050". Provide a rodent screen with a minimum of 2 openings





for the pull boxes.



each 10 foot length; fittings - stamped or molded on each fitting. Connect conduit and fittings using solvent cement in accordance with manufacturer's recommendations.

Furnish and install NEMA Type 4X non-metallic or galvanized steel pull boxes sized in accordance with NEC requirements and the maximum limits shown. Provide gasketed weatherproof covers

	REV.	WBA LK	A 7-19 800	YORK COUNTY			
	REV.	PCW HL 22x36 1	4-19 Border	PENNIES FOR PROGRESS			
NV5 ENGINEERS Z	REV.	GAR JMG Fitting	4-15 Rubber	GENERAL DETAILS SHEET 2 OF 2			
ULTANTS, INC. 0 L W No. 20591	REVIEWED			SC 557			
De AUT HODocuSigned by TEVINI AUS	QUAN. DR.	SRM PNP SAN	2-08	BRIDGE OVER CROWDERS CREEK			
L. Kerin Austin	DES.	BY CH	K. DATE	county YORK ROUTE SC 557			
				- Gillion - Gill			

DRAWING NO. 700-Misc

DocuSign Envelope ID: 100147DB-F886-40F5-8592-312038CAFA1E



			COUNTY
BY	СНК.	DATE	YORK

route SC 557

DRAWING NO. 703-01



	FED. ROAD DIV. NO.	STATE SC	COUNTY YORK	PROJECT ID 0041800	PROJECT NO. 03-013/11-009	ROUTE NO.	SHEET NO. 7	TOTAL SHEETS
			FOR IN	FORM	ATION	ONL	Y	
NOTE 9								
9.0' 50:1 (MAX) 50:1 (MAX) 2:1 MAX) = III = III = III = III	GROUND	NOTE 1. ALL ARE [2. FILL	: DIMENSIO DETERMIN - SLOPES 6:10' 4:15' 2:10\	DNS ANE ED BY I TO 5' FII TO 10' F /ER 10' F) paveme Ndividual LL ILL FILL	NT DI PRO	ESIGN JECTS	S S.
BERM SLOPE FOR FUTURE SIDEWALK		SEE FOR FROM LENG	STD. DWG. GUARDRA BACK C TH POSTS	SECTIOI IL PLACE DF CURE 3.	N 805 EMENT. PLA B WITH EX	ACE 5 (TRA	5.5'	
		3. SEE CONC	E STD. NO RETE CUI	. 720–105 RB AND	-00 FOR GUTTER	DETA	ILS.	
		4. PED DWG.	DESTRIAN SECTION	RAMPS 720.	PER SCD	OT ST	D.	
		5. SEE CONC	E STD. NO RETE DRI	. 720–410 IVEWAY	-00 FOR DETAILS.			
		6. SUF IN AC 150-20	PERELEVA ⁻ CORDAN(05–00.	TION SH CE WITH	IALL BE AI STD. NO.	CHIEV	ED	
		7. PEF	REORM VA	ARIABLE	DEPTH M	ILLING	, ,	

N S	SPEED		PAVEMENT DESIGN		
	FROM STA.	TO STA.		YORK COUNTY	
	203+05.00	330+02.00		PENNIES FOR PROGRESS	
βN	SPEED				
				TYPICAL SECTION SHEET	
				SCALE 1"V = NTS SCALE 1"H = 5' RTE. SC 557	

DocuSign Envelope ID: 100147DB-F886-40F5-8592-312038CAFA1E









Project	ID: G	4843.000		Co	ounty:	York		Boring N	5.: B-3	
Site De	scripti	on: SC 557 Bridge over Crowde	ers Cree	k		1 200 21 2	R	oute: SC 5	57	
Eng./G	eo.: R 580.4	t Latitude: 35 120408	n: 255-	-// nitudo:		et: 19 ft - L 1401	Alig	nment: Ma		
Total D	epth:	48.5 ft Soil Depth: 48.5	ft	Core D	epth:	0 ft	Date St	ompleted:	6/7/2018	
Bore H	ole Dia	ameter (in): 6 Sampler Co	onfigura	ation	Lin	er Required	1: Y	N Liner	Used: Y	N
Drill Ma	achine	CME 550X Drill Method:	ISA		Hamm	er Type: At	utomatic	Energy	Ratio: 81%	6
Core S	ize:	N/A Driller: D. Ha	arris		Groun	dwater: TC)B 16.0 t	t	24HR 11.0	JĦ
								• SPT	N VALUE	
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vatio (ft)	epth (ft)	MATERIAL DESCRIPTION	aphi	epth epth			Valu	X	- <u>O</u> X	
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100	-									
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		PARTIALLY WEATHERED ROCK (PWR)	it.	10.						
550.4-) 	Olive Brown/White, Non-Plastic to Low	it.	10.	-					
line -	1000	Plasticity, Silty Fine to Medium <u>SAND</u> (SM/A-4), Munsell=2.5Y 5/3 & 2.5Y 8/1	÷Į.	to.	-					
<u>1911</u>	<u>-</u>	 Press Press Pre Press Press P	į.	·	<u>.</u>					
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<u>101</u>	48.5		سا · ا	48.	5	10/0"	100+			>>
1	-	Boring Terminated at 48.5 Due to Auger Refusal at Top of Rock			-					
		unnunneurdensenderstung - sonder end Statistikkerstählstel								
		SAMPI FR TYPE	L	EGEN	ט			METHOD		
SS - 8	Split Spoo	NQ - Rock Core, 1-7/8	i.	H	SA - Hollo	w Stem Auger	JULEINO	RW - Rotary	Wash	



Le Description Courseling over Clander State If Roller; If Roller; </th <th>Bit Description: (32.00) Flog event Flog</th> <th>oject</th> <th>ID: G</th> <th>4843.000</th> <th></th> <th>Coι</th> <th>inty:</th> <th>Yc</th> <th>ork</th> <th></th> <th></th> <th>Boring No.: B-4</th>	Bit Description: (32.00) Flog event Flog	oject	ID: G	4843.000		Coι	inty:	Yc	ork			Boring No.: B-4
ev.: 157.1 ft Latitude: 351.20289 Longitude: 91.11368 Date Started: 68.073.01 ore Hole Diameter (in): 6 Sampler Configuration Liner Required: Y 40. int Machine: CORE BOOK Date Started: 74.00 10.00 10.00 int Machine: CORE BOOK Driller: D.148/RC Hammer Type 4.00 10.00 20.00 int Machine: CORE BOOK Driller: D.148/RC Hammer Type 4.00 20.00	Berk: 576.1 ft Latitude: 35.12389 Longitude: 111368 Date Startet: B872018 Store Hole Diameter (In): 6 Sampler Configuration Liner Required: Y 0; Liner Vescore 106 Store Hole Diameter (In): 6 Sampler Configuration Liner Required: Y 0; Liner Vescore 106 Store Size: NO Driller: D. Haris Groundwater; TOB 0; 9; 0; 0; 106 0; 9; 0; 0; 9; 0;	ng./G	eo.: R	WessingerBoring Location:2	леек 256+7	<i>.</i> 76	Offse	et: 1	19 ft -	L_	A	lignment: Mainline
The Hole Damage of Hole Damage of Hole Sempler Configuration Liner Required: Date Volume 1 Date Volume 1 III Machine: CME 550X Drill Method: HSARC Hammer Type: Automatic Energy Ratio: B1% Big Big Big Big Big Big Big Big Big Big	Bit Product Direct (b): Construction Direct (b): Construction <thdirect (b):="" construction<="" th=""> <thdirect (b):="" constructi<="" th=""><th>ev.:</th><th>576.1</th><th>t Latitude: 35.120389 I 46.8 ft Soil Depth: 245 ft</th><th>.ongi</th><th>tude: ore De</th><th>-81.1 pth:</th><th>1368</th><th>3 2.3.ft</th><th>C r</th><th>)ate</th><th>Started: 6/6/2018 Completed: 6/7/2018</th></thdirect></thdirect>	ev.:	576.1	t Latitude: 35.120389 I 46.8 ft Soil Depth: 245 ft	.ongi	tude: ore De	-81.1 pth:	1368	3 2.3.ft	C r)ate	Started: 6/6/2018 Completed: 6/7/2018
III Machine: CME 550X Drill Method: HSARC Hammer Type: Automatic Energy Ratic 51% pres Size: NQ Driller: D. Harris Groundwater: TOB 5.0 ft 24HR Not Recorded get	Drill Mathematic CME SSX Drill Method: HSARC Harmer Type; Audomatic Energy Retic B178 Sore Size: NO Driller: D. Harris Groundwater: TOB 5.01 24HR Not Recorded Sore Size: NO Driller: D. Harris Groundwater: TOB 5.01 24HR Not Recorded Sore Size: NO Den Matterial DESCRIPTION Sore Size: Sore Size: Sore Size: No Sore Size: No Sore Size: Soree	ore H	ole Dia	meter (in): 6 Sampler Config	gurat	ion		er Ro	equir	ed:	Y	Liner Used: Y N
Image: Second Start Image: Second Start <thimage: second="" start<="" th=""> Image: Second Start</thimage:>	Bit International Control of the state of the s	rill Ma ore Si	ize:	CME 550X Drill Method: HSA	/RC	ł	Hamm Group	er Ty dwa	ype: ter: '	Auto	mat	ic Energy Ratio: 81%
B B	Bit Product					1						
E E MATERIAL DESCRIPTION E <the< th=""> <the< th=""> <the< th=""></the<></the<></the<>	Bit Construction Matterial Description Bit Construction Bit Construc	-										PL MC LL
1 0 <td>Image: Construction Image: Construction</td> <td>(ft)</td> <td>Jepth (ft)</td> <td>MATERIAL DESCRIPTION</td> <td>Log</td> <td>ample Jepth (ft)</td> <td>ample</td> <td>0.</td> <td>0. 0.</td> <td>-0-</td> <td>Value</td> <td></td>	Image: Construction	(ft)	Jepth (ft)	MATERIAL DESCRIPTION	Log	ample Jepth (ft)	ample	0.	0. 0.	-0-	Value	
Image: Strong Brown, Non-Plastic, Murreelit-JSYR 46 Solution Solu	- -	Ŭ	0.0	Open Woodland	0 Electron	00	0 Z	1st	2nd 3rd	4th	Z	0 10 20 30 40 50 60 70 80 90
Murseli-7.5YR 46 20 MUrseli-7.5YR 46 20 SS: LL 12, PL-20, PI=3, NMC=16.1%, Warseli-2.5YR 36 3.5 40 985-2 985-2 5.4 100 985-2 111-	571.1	-	_	Loose, Moist, Strong Brown, Non-Plastic, Silty Fine SAND (SM/A-4(0))			55-1	1	2 3	8	5 `	
NMC=15.9%, %#200=36.3	581.1			Munsell=7.5YR 4/6		20						
	> Dark Red, Low Plasticity, Mursell=2.5YR 40 @SS-2.L=23, PL=20, PF-3, NMC=16.1%, 571.1 > Denking to Wet, Dark Red, Low 595.3 Lcose, Noist to Wet, Dark Red, Low 200-85.3 Lcose, Noist to Wet, Red, Low 200-85.4 Lcose, Noist to Wet, Red, Low 200-85.5 Lcose, Noist to Wet, Red, Save 200-85.6 Lcose, Noist to Wet, Reddish Yelow, Whith Sand, Munsell-7.5YR 7/8 201-95.5 Sather Ler			NMC=15.9%, %#200=36.3		2.0_				~		
4.0 @SS-2: LL=23, PL=20, PI=3, NMC=16.1%, PL=20, PI=3, NMC=16.1%, PL=20, PI=7, NMC=16.1%, PL=22, PI=7, NMC=12.1%, PL=22, PI=7, NMC=12.1%, PL=22, PI=7, NMC=12.1%, PL=22, PI=7, NMC=12.2%, %Z00=36.9 60 @SS-3: LL=20, PL=22, PI=7, NMC=12.2%, %Z00=36.9 61.1	40 @SS-2: LL-22, PL=20, PL=3, NMC=16.1%, Hastedy, Sity Clayer Fine SAND ESS-3WDH-20, Sity Clayer Fine SAND ESS-3WDH-20, Sity Clayer Fine SAND ESS-3WDH-20, Sity Clayer Fine SAND Bastedy, Sity Fine SAND SIMA-4(0), Minseler 2: OYR 5/8 40 - SS-3 WDH-2 3 5 6 GCC 60 @SS-2: LL-23, PL=22, PT-7, NMC=18.1%, Winseler 2: OYR 5/8 60 - SS-4 3 3 5 6 GCC 61 - - SS-4 3 3 5 6 GCC 62 - SS-4 3 3 5 6 GCC - 63 - - - SS-5 2 3 2 4 5 - GCC 63 - - - - SS-5 2 3 2 4 5 - - 565.1 -	4 <u>000</u>	1 <u>11 - 1</u>	=> Dark Red, Low Plasticity, Munsell=2.5YR 3/6		-	SS-2	5	43	4	7	
571.1 -Losse, Moist to Wet, Dark Red, Low Plasticity, Sity, Clayey Fine SAND (SS:MA.4(0)), Munselt=25YR 3/6 -SS-3 WOH 2 3 5 - - 60.0 @SS-3, LL=29, PL=22, PI=7, NMC=18, 1%, Watch, Sity, Fine SAND (SMA.4(0)), Munselt=2, SYR 5/8 - </td <td>571.1 </td> <td>1000</td> <td>4.0_</td> <td>@SS-2: LL=23, PL=20, PI=3, NMC=16.1%, %#200=41.9</td> <td>7/7</td> <td>4.0_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	571.1	1000	4.0_	@SS-2: LL=23, PL=20, PI=3, NMC=16.1%, %#200=41.9	7/7	4.0_						
Image: Presume youry, only only only only only only only only	Sec. MALL PiesLew, out, out, out, out, out, out, out, out	571 1 -	5	Zeose, Moist to Wet, Dark Red, Low		-	50.2	WOH	2 3	5	5	
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Image: State in the service in the	Image: Construction Denses Week, Red, Low Image: Construction Denses Week, Red, Low Image: Construction Denses Week, Red, Low Image: Construction Denses Week, Red, Low Image: Construction Denses Week, Red, Muraseler, SYR, Week, Muraseler, SYR, Week, Reddish Yellow, with Gravel, Muraseler, SYR, Most to Wet, Reddish Yellow, With Gravel, Muraseler, SYR, Most to Wet, Reddish Yellow, Werk, Strift, Most to Wet, Reddish Yellow, Werk, Strift, Most to Wet, Reddish Yellow, Web, Strift, Most to Wet, Reddish Yellow, Web, Strift, Most to Wet, Reddish Yellow, Werk, Strift, Most to Wet, Reddish Yellow, Web, Strift, Most to Wet, Reddish Yellow, Muraseler, SyR, 7/8 Strift Strift, Most to Wet, Reddish Yellow, Muraseler, SyR, 7/8 Strift, Strift, Most to Wet, Reddish Yellow, Web, Strift, Most to Web, Reddyn, Muraseler, SyR, 7/8 Strift, Most to Web, Reddyn, Muraseler, SyR, 7/8 Strift, Most to Web, Reddyn, Muraseler, SyR, 7/8 Strift, Strift, Most to Web, Reddyn, Muraseler, SyR, 7/8 Strift, Most to Web, Reddyn, Muraseler, SyR, 7/8 Strift, Most to Web, Reddyn, Muraseler, SyR, 7/8	1	_U.ט	\@>>>>. LL=∠9, PL=22, PI=7, NMC=18.1%, \%#200=39.4 \		0.0						
Image: 12-SYR 5/8 0 0 0 <	Image: 12: 5YR 5/8 0: 5S-4: L-23, PI=23, PI=5, NMC=22.6%, Skt200=39.0 58-5: L-32, PL=28, PI=6, NMC=23.7%, Skt200=36.9 566, 1 - - - - 566, 1 - - - - 14.0 = Redish Yellow, with Gravel, Munsel=7.5YR 7/8 13.5 - - 561.1 - - - - - - 561.1 - - - - - - 561.1 - - - - - - 561.1 - - - - - - 561.1 - - - - - - 14.0 RESIDUM Strip Control (Max Page) - - - - 14.0 - - - - - - - - 14.0 -	1000	-	Loose to Medium Dense, Wet, Red, Low Plasticity, Silty Fine <u>SAND (SM/A-4(0))</u> ,		-	SS-4	3	33	5	6	• & -
3661.1 - 9%#200=39.0 -	9%/200=39.0 @SS-6: LL=32, PL=26, PI=6, NMC=23.7%, SK2200=36.9 -<	<u> (46)</u>	<u> teritor</u>	Munsell=2.5YR 5/8 @SS-4: LL=28, PL=23, PI=5, NMC=22.6%,		8.0						
366.1 -	566.1	_		%#200=39.0 @SS-5: =32 PI =26 PI=6 NMC=23.7%		-	55-5	2	3 2	4	5	
a a a b b b b b b b b b b c	296.1 - <td></td> <td>Fails 4</td> <td>%#200=36.9</td> <td></td> <td></td> <td></td> <td>1000</td> <td>- 4</td> <td></td> <td>, and a second sec</td> <td></td>		Fails 4	%#200=36.9				1000	- 4		, and a second sec	
intermediate intermediat intermediat i	- -	566.1-	_			-						
image: split spoon SAMPLER TYPE Solit Spoon No Rock Core, 1-7/8" Continuous Tube HSA - Hollow Stem Auger Rest Core, 1-1/8" Continuous Tube		-	-			-	-					
int.1 > Reddish Yellow, with Gravel, Munsell=7.5YR 7/8 13.5 i61.1	4 > Reddish Yellow, with Gravel, Munsell=7.5YR 7/8 13.5		-			=						
i4.0	14.0 FESIDUUM FRESIDUUM Very Stif, Moist to Wet, Reddish Yellow, Non-Plastic to Low Plasticity, SILT (ML/A-4) with Sand, Munsell=7.5YR 7/8 SS-6 	10	_			_	-					
361.1 - - - SS-6 3 6 10 16 - 561.1 -	561.1 RESIDUUM Very Stiff, Moist to Wet, Reddish Yellow, Non-Plastic to Low Plasticity, <u>SILT (ML/A-4)</u> with Sand, Munsel=7.5YR 7/8 SS-6 3 6 10 16 Image: Control of the second seco		14.0	=> Reddish Yellow, with Gravel, Munsell=7.5YR 7/8		13.5						
561.1 - Non-Plastic to Low Plasticity, SILT (ML/A-4) with Sand, Munsel=7.5YR 7/8 Image: Continued Rest Plastic to Low Plasticity, SILT (ML/A-4) with Sand, Munsel=7.5YR 7/8	561.1 - Nor-Plastict (SUB) (Reudel (Felder), SUE (ML/A-4)) with Sand, Munsel=7.5YR 7/8 - - - - - SS - -		14.0_	RESIDUUM			SS-6	3	6 10		16	•
LEGEND Continued Next Page SAMPLER TYPE S - Split Spoon NQ - Rock Core, 1-7/8" CFA - Hollow Stem Auger RW - Rotary Wash CFA - Continuous Flight Augers RC - Rock Core DC - Driving Casing	Image: Second State of the second s	561.1-	-	Non-Plastic to Low Plasticity, <u>SILT (ML/A-4)</u> with Sand, Munsell=7.5YR 7/8		-						
Image: Sample curve continued sample curve continued sample curve continued sample curve	Image: Sample curve Image: Sample curve<	-	-			-						
Image: Sample curve 18.5 Sample curve 18.5 Sample curve Continued Next Page Sample curve DRILLING METHOD Sample curve HSA - Hollow Stem Auger Sample curve Curve	Image: Image in the image	4 <u>11</u>	-			-						
Image: Sample CU - Cuttings Image: Sample CU - Cutting Casing	Image: Sample curve Image: Sample curve Sample curve Sample curve Continued Next Page DRILLING METHOD SS - Split Spoon NQ - Rock Core, 1-7/8" UD - Undisturbed Sample CU - Cuttings CFA - Continuous Flight Augers RC - Rock Core AWG - Rock Core, 1-1/8" CT - Continuous Tube DC - Driving Casing DC - Driving Casing											
LEGEIND Continued Next Page SAMPLER TYPE DRILLING METHOD S - Split Spoon NQ - Rock Core, 1-7/8" HSA - Hollow Stem Auger RW - Rotary Wash D - Undisturbed Sample CU - Cuttings CFA - Continuous Flight Augers RC - Rock Core NG - Rock Core, 1-1/8" CT - Continuous Tube DC - Driving Casing	LEGEND Continued Next Page SAMPLER TYPE DRILLING METHOD SS - Split Spoon NQ - Rock Core, 1-7/8" HSA - Hollow Stem Auger RW - Rotary Wash JD - Undisturbed Sample CU - Cuttings CFA - Continuous Flight Augers RC - Rock Core AWG - Rock Core, 1-1/8" CT - Continuous Tube DC - Driving Casing	<u>925.</u>	<u></u>			18.5	1					
D - Undisturbed Sample CU - Cuttings CFA - Continuous Flight Augers RC - Rock Core NG - Rock Core, 1-1/8" CT - Continuous Tube DC - Driving Casing	UD - Undisturbed Sample CU - Cuttings CFA - Continuous Flight Augers RC - Rock Core AWG - Rock Core, 1-1/8" CT - Continuous Tube DC - Driving Casing	<u>م</u>	Solit Sec.	SAMPLER TYPE		GEIND		W C+-	m	DF Pr	RILLIN	Continued Ivext Page
		0 - 8 D - 1 WG - F	Jndisturb Rock Core	ed Sample CU - Cuttings e, 1-1/8" CT - Continuous Tube		CFA DC	 A - Cont - Drivit 	nuou: ng Ca	s Flight sing	Auge	ers	RC - Rock Core
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county YORK **route** SC 557

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BY CHK. DATE



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Project	t ID: 🤆 🖸	4843.000				Cou	inty:	York			Boring	No.: B-4	
Site De	scripti	ion: SC 557	Bridge over Cro	wders (Creek					F	Route: SC	557	
Eng./G	eo.: R	. Wessinger	Boring Loca	ation: 2	256+7	6	Offse	e t: 19 f	t - L	Alig	jnment: N	Mainline	
Elev.:	576.1	ft Latitude:	: 35.1203	89	ongi	tude:	-81.1	1368		Date St	arted:	6/6/2018	
Total D	epth:	46.8 ft So	oil Depth: 2	24.5 ft	Co	ore De	pth:	22.31	t l	Date Co	ompleted:	6/7/2018	
Bore H	ole Dia	ameter (in): 6	Sample	r Confi	gurati	ion	Line	er Requ	ired:	Y	N Lin	er Used: Y	<u></u>
Drill Ma	achine	: CME 550X	Drill Method:	HSA	/RC	ł	lamm	er Type	: Auto	omatic	Energ	gy Ratio: 81	%
Core S	ize:	NQ	Driller: D	. Harris		C	Groun	dwater		3 5.0 ft		24HR No	t Recor
c					1						. SI		
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(ft)	(ff)	MATERIAL	L DESCRIPTIO	N	Lo	Dep	o.∏	16" 16	6. 0.	l Va	▲ FINE	S CONTENT (%)
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		@NQ-4: Moderatel Joints Din from 20°	ly to Slightly Weath	nered, al									
-	-	Joints/Veins, Mode	erately Narrow to Na	arrow,		_							
		Surface Stain/Parti	ally Filled (Iron Oxio	de), to									
1		Rough	-,gnay rought	Sa		-							
							NQ-4				%REC=93, %	RQD=85, GSI=5	0-60
536.1-	1000					_				-			
100													
						41.8							
-	-	@NQ-5: Medium to	o Coarse Grained,	Highly		-							
		45°, Few Joints M	n, Joints Dip from 2 oderately Narrow to	∠U~ to o	$\langle \rangle \rangle$	4 9 9							
) 	-	Narrow, Partially Fi	illed (Iron Oxide), Ir	regular,		-							
		Very Close, Slightly	y Rough to Rough										
	_					-	NO-5			c	%PEC-00 %		5-65
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	46.8		at 4C 0 fact						;				
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		0000			LE	GEND			-		METHOD		
		SAMPLEF	K IYPE					~ ^	D	RILLING	METHOD		



Elev.: 574.1 ft Latitude: 35.120285 Longitude: -81.113723 Date Started: 6/7/2018 Total Depth: 49.8 ft Soil Depth: 29.3 ft Core Depth: 20.5 ft Date Completed: 6/7/2018 Bore Hole Diameter (in): 6 Sampler Configuration Liner Required: Y Liner Used: Y Liner Used: Y Drill Machine: CME 550X Drill Method: HSA/RC Hammer Type: Automatic Energy Ratio: 81' Gore Size: NQ Driller: D. Harris Groundwater: TOB 6.0 ft 24HR Ca Display MATERIAL DESCRIPTION 9 10	/ (N) % ve 5.0-ft % 80 90
Solid Hole Diameter (in):CSampler ComigurationEiner Required:Y(i)Einer Osed:YOrill Machine:CME 550XDrill Method:HSA/RCHammer Type:AutomaticEnergy Ratio:814Core Size:NQDriller:D. HarrisGroundwater:TOB6.0 ft24HRCa $\overline{0}$	(N) % ve 5.0-ft 80 90
$\begin{array}{c c c c c c c c c c c c c c c c c c c $) 80 90 -
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	80 90
$569.1 - \begin{bmatrix} 2.0 \\ @SS-1: LL=NP, PL=NP, PI=NP, \\ NMC=17.6\%, \%#200=36.0 \\ = > \underline{A-2-4} \\ @SS-2: LL=NP, PL=NP, PI=NP, \\ NMC=14.3\%, \%#200=21.4 \\ \hline = > Moist to Wet, Reddish Brown, \\ Munsell=5YR 5/4 \\ \hline = > Moist to Wet, Reddish Brown, \\ Munsell=5YR 5/4 \\ \hline = > Moist to Wet, Reddish Brown, \\ \hline = > Moist to Wet,$	
$569.1 - \begin{bmatrix} -2 & A-2-4 \\ 0 & SS-2: LL=NP, PL=NP, PI=NP, \\ NMC=14.3\%, \ \%\#200=21.4 \\ \hline = > Moist to Wet, Reddish Brown, \\ Munsell=5YR 5/4 \\ \hline = SYR 5/4 \\ \hline =$	-
Munsell=5YR 5/4	
@SS-3: LL=NP, PL=NP, PI=NP, NMC=22.2% %#200=14.6 8.0	
= - Wet @SS-4: LL=NP, PL=NP, PI=NP, MMC=10.00% 0%#200=20.4	-
564.1 - NMC=19.9%, %#200=29.4 - - - - - <td>-</td>	-
559.1 => Yellowish Brown, Munsell=10YR 5/4	-
=	-
554.1 20.0 RESIDUUM - Medium Dense, Wet, Light Yellowish Brown, Non-Plastic to Low Plasticity, Silty Fine - - SAND (SM/A-4), Munsell=2.5Y 6/4 -	-
549.1 - - - - -	-
	-
LEGEND Continued Ne	ext Page
UD - Undisturbed Sample CU - Cuttings CFA - Continuous Flight Augers RC - Rock Core AWG - Rock Core, 1-1/8" CT - Continuous Tube DC - Driving Casing	

REV.				YORK COUNTY
REV.				PENNIES FOR PROGRESS
REV.				BORING LOGS SHEET 2 OF 7
REVIE	WED		-	SC 557
QUAN.				BDIDGE OVED CDOWDEDS CDEEK
DR.	WBA	LKA	7/19	
DES.				COUNTY ROUTE
	BY	CHK.	DATE	YORK SC 557



Project	ID: C	64843.000				Co	unty:	Y	ork				Bor	ing N	lo.: E	3-6	
Site De	script	ion: SC 55	57 Bridge ove	r Crowde	ers Cree	ek						Roi	ute:	SC	557		
Eng./G	e o.: F	R. Wessinger	Boring	Locatio	n: 257-	+77	Offse	et:	201	ft - L	A	lignr	nen	t: M	ainline	9	
Elev.:	575.2	ft Latitu	de: 35.	120372	Lon	gitude:	-81.1	133	44		Date	Star	ted:		6/6	5/2018	
Total D	epth:	45.9 ft	Soil Depth:	26.4	tt	Core De	epth:	19	9.5	ft	Date	Com	plet	ed:	6/6	5/2018	0
Bore H	ole Di	ameter (in):		mpler Co	onfigur	ation	Line	er R	leq	uired	: Y	<u>(N</u>)		Line	er Use	d: Y	<u>(N)</u>
	icnine		Driller:			,	Group	er i dwa	ype	e: Au				ierg:	211	D 65	0 ft
COLES	26.	NG	Dimer.	D. 1 id	21115		Ground	uvva	ilei	. 10	b 7.0	, IL			2411	N 0.0	11
	· · · · · · · · · · · · · · · · · · ·													• SP	T N VAI	UE	
_						1201	(I)						Р	Ê.	MC	LL	
ft)	ft)				phic	pth pth	Type	_	.		'alue		\times		-0-	——X	
Elev C	с С		IAL DEOURI		Gra	Dear	Sar No./	st 6"	9 pu	rd 6' h 6''				FINES		ENT (%)	
0-0-0-	0.0	ALLUVIUM				0.0	0	, ~	5	31	F.	0 10	20	30 4	<u>u 50 (</u>	<u>50 70 8</u>	su 90
	1	Very Loose to L	oose, Moist, Lia	ht Brown,			- 99-1	wo	н 1	1 5	2						
		Non-Plastic, Sili	ty Fine <u>SAND (§</u> 6/4	<u>SM/A-2-4)</u> ,						, 2							
	4 <u>00</u>	@SS-1: LL=NP	, PL=NP. PI=NI	⊃.		2.0											
-	-	NMC=17.6%, %	6#200=21.8				- SS-12	4	4	5 6	9	k 🍦	0				
		=> Strong Brow	n, Munsell=7.5°	r 5/8		10	and 6.555 (\$255)		æ	2007 - 2							
-	.=	@SS-2: LL=NP	, PL=NP, PI=NI	⊃,		4.0	-	1									
570.2-	1=	NMC=16.5%, %	6#200=34.4				- SS-3	8	8	8 7	16	<u>k</u> –	•0-				
		=> Medium Der	ise to Loose, Br	own,		60											
-	-	¥@SS-3:11=NP	PL=NP. PI=NI	⊃.								1					
1.000	3 8 .00	⊻NMC=21.0%, %	6#200=33.8	a.			- SS-4	4	6	4 4	10	k 🍦		0			
		=> Wet, <u>A-4(0)</u>				8.0											
-	1	@SS-4: LL=NP	, PL=NP, PI=NI	⊃,									÷				
-	1	NIVIC=27.7%, %	0#∠∪∪=47.4	~ 4			- SS-5	1	1	1 2	2		À (C			
565 2-	1	=> Very Loose, Munsell=7.5YR	Brown/Gray, A- 5/4 & 7.5YR 6/	<u>∙2-4</u> , 1													
505.2		@SS-5: LL=NP	, PL=NP, PI=NI	⊃,													
6 <u>00</u>	6 <u>44</u>	NMC=27.0%, %	6#200=20.4														
-	-						_										
													-				
-	13.5					13.5	1										
-	1-	Very Soft, Wet,	Gray, Non-Plas	tic, Sandy			00 6	4	1	1	2		-		_ i ▲		
560 2	Ala	@SS-6: LL=NP	, PL=NP, PI=NI	⊃,			00-0		1								
560.2-	-	NMC=43.3%, %	6#200=57.0														
1	177						-										
_							_										
	18.5					18.5	-										
-	1	Very Stiff, Wet	to Moist, Dark C	Breenish G	ray,				~	40							
		(ML/A-4), Muns	sell=5GY 4/1	anuy <u>SILT</u>		·	SS-7	4	6	13	19						
555.2-	4 .00.	10 II															
	1-					· .	-										
-							1										
<u></u>	1 <u></u>						-						l				
		L			<u> </u>	<u></u>)	1				<u><u> </u></u>	×.		ontinu	ed Nex	t Pag
25/2	5 55 AP	SAMP	LER TYPE	ge st anterna	L		2 22 22	1925	55		DRILLI	IG ME	THO	D			
SS - 5	Split Spo	on	NQ - Rock (Core, 1-7/8"		HS	A - Hollo	w Ste	em A	Auger		R	W -	Rotar	y Wash		



Event mode trainer (m) Description Description The required (m)	ite De ing./Ge ilev.: otal D	scripti eo.: R 575.2 epth:	on: SC 55 Wessinger ft Latitud 45.9 ft \$	7 Bridge ov Boring e: 35 Soil Depth:	er Crowders (g Location: 2 .120372 I 26.4 ft	Creek 257+7 Longi	7 tude: ore De	Offse -81.1 pth:	et: 20 13344 19.5	ft - L ft	A Date Date	Route: SC 557 lignment: Mainline Started: 6/6/2018 Completed: 6/6/2018
Core Size: NQ Driller: D. Harris Groundwater: TOB 7.0 ft 24HR 6.5 ft 550.2	rill Ma	chine	CME 550X	Drill Me	thod: HSA	gurat /RC		Hamm	er Typ	e: Aut	omati	c Energy Ratio: 81%
Signed End MATERIAL DESCRIPTION End Signed Signed <th< th=""><th>ore Si</th><th>ze:</th><th>NQ</th><th>Driller:</th><th>D. Harris</th><th>l .</th><th>j.</th><th>Groun</th><th>dwater</th><th>: TOI</th><th>3 7.0</th><th>ft 24HR 6.5 ft</th></th<>	ore Si	ze:	NQ	Driller:	D. Harris	l .	j.	Groun	dwater	: TOI	3 7.0	ft 24HR 6.5 ft
550.2 28.4 @NQ-3: Grayish Green, Joints Dip from 20' by 70', Occasional Joints/Bedding, Very Narrow to Tight, Surface Stain/Filed (Calcite/Cuart2), Irregular, Very Close, Simoth to Silghtly Rough 28.4 05.9 10.00'' 1000'' 000'' 545.2 WETAGABRO/METADIORITE Graphed Gerwi/Mite Medium to Fine Graphed Gerwi/Mite Medium to Fine Gerwined Very Thicky, Inter Dip from 20' to 70', Crassional Joints/Bedding, Narrow to Yery Narrow Surface Stain/Filed (Ton Chiel/Cuartz), Pregular, Very Close, Slightly Rough 30.9 30.9 30.9 540.2 @MQ-2. Grayish Graen/Wite/Gray/ Box Custored Joints/Bedding, Narrow to Yery Narrow Surface Stain/Filed (Chatte/Cuartz), Pregular, Very Close, Smooth to Slightly Rough NQ-2 %REC=98, %ROD=93, GSI=35-45 530.2	Elevation (ft)	Depth (ft)	MATERI	AL DESCR	PTION	Graphic Log	Sample Depth (ft)	Sample No./Type	1st 6" 2nd 6"	3rd 6" 4th 6"	N Value	● SPT N VALUE ● PL MC LL ★ O X ▲ FINES CONTENT (%) 0 10 20 30 40 50 60 70 80 90
28.4 @NO-3: Gravish Green, Joints Dip from 20' to 70', Occasional Joints/Bedding, Very Narrow to Tright, Surface Stain/Filed (CalcuteQuartz), Irregular, Very Close, Smooth to Slight/Rough 26.4 SS-9 100* 00+ 545.2 METAGABBRO/METADIORITE Gravish Green/White/Medium to Fine Gravish Green/White/Medium to Fine Stain CH, Pray Strong Rock, Joints Dip from 20' to 70', Few Joints, Narrow to Tight, Surface Stain/Filed (Irron Oxide/Quartz), Irregular, Very Close, Slight/Rough NO-1 %REC=32, %ROD=30, RMR=62, GSI=45-55 540.2 @NO-2: Gravish Green/White/Gray, Extremely Storog Rock, Joints Dip from 20' to 70', Coccasional Joints/Bedding, Narrow to Very Narrow, Surface Stain/Filed (Iron Oxide/Quartz), Irregular, Very Close, Slightly Rough to Rough NO-2 %REC=98, %ROD=30, RMR=68, GSI=50-60 540.2 @NO-2: Gravish Green/White/Gray, Extremely Storog Rock, Joints Dip from 20' to 70', Coccasional Joints/Bedding, Narrow to Very Narrow, Surface Stain/Filed (Iron Oxide/Cuartz), Irregular, Very Close, Slightly Rough NO-2 %REC=98, %ROD=30, RMR=68, GSI=50-60 540.2 @NO-4: Gravish Green/White/Gray/Black, Joints Dip from 10' to 70', Occasional Joints/Bedding, Very Narrow, Surface Stain/Filed (Chointe/Duartz), Irregular, Very Close, Sinckensided to Slightly Rough NO-3 %REC=98, %ROD=83, GSI=35-45 530.2 40.9	- 550.2-							SS-8	10 10	18	28	•
545.2 METAGABBROMETADIORITE Grayish GreenWhite, Medium to Fine Grayish GreenWhite, Medium to Fine Grayish GreenWhite/Bedded, Plagiotizes FeldsparClinopyroxene/ Homblende, Highly to Slightly Weathered, Very Otros, Slightly Rough to Rough Stain/Filed (Iron Oxide/Quartz), Inregular, Very Close, Slightly Rough to Rough D 00: 2 Grayish GreenWhite/Gray, Extremely Strong Rock, Joints Dip from 20° to 70°, Ceasional Joints/Bedding, Narrow to Tight, Surface Stain/Filed (Iron Oxide/Quartz), Inregular, Very Close, Slightly Rough NO-2 %REC=98, %ROD=90, RMR=68, GSI=50-63 540.2 @NQ-2: Grayish Green/White/Gray, Extremely Strong Rock, Joints Dip from 20° to 70°, Occasional Joints/Bedding, Very Rorow to Tight, Surface Stain/Filed (Calcife/Quartz), Irregular, Very Close, Smooth to Slightly Rough NO-3 @35.0-ft: UC Strength=39,210 psi as 9 535.2	_	26.4	@NQ-3: Grayish to 70°, Occasion Narrow to Tight, (Calcite/Quartz), Smooth to Slight	Green, Joints al Joints/Bedo Surface Stain Irregular, Ver y Rough	s Dip from 20° ling, Very /Filled y Close,		26.4		10/0"		100+	@27.7-ft: UC Strength=29,140 psi
Stain/Filled (Iron Oxide/Quart2), Irregular, Very Close, Slightly Rough to Rough NQ-2 @NQ-2: Grayish Green/White/Gray, Extremely Strong Rock, Joints Dip from 20° to 70°, Occasional Joints/Bedding, Very Narrow to Oxide/Quart2), Irregular, Very Close, Slightly Rough to Rough NQ-2 540.2 Very Narrow, Surface Stain/Filled (Iron Oxide/Quart2), Irregular, Very Close, Slightly Rough to Rough 35.9 6000 Very Narrow, Surface Stain/Filled (Iron Oxide/Quart2), Irregular, Very Close, Slightly Rough to Rough 35.9 0 QNQ-3: Grayish Green/White/Gray/Black, Joints Dip from 10° to 70°, Numerous Joints/Sheats, Narrow to Very Narrow to Slightly Rough NQ-3 535.2 QNQ-4: Grayish Green/White/Gray/Black, Joints Dip from 10° to 70°, Numerous Joints/Sheats, Narrow to Very Narrow, Surface Stain/Filled (Healed/Chorthe), Irregular, Very Close, Slickensided to Slightly Rough 40.9 530.2 45.9 Coring Terminated at 45.9 feet NQ-4	- 545.2- -	-	METAGABBRO/ Grayish Green/M Grained, Very T Plagioclase Feld Hornblende, Hig Very Strong Roc 70° Few Joints	METADIORIT /hite, Medium hickly to Thic /spar/Clinopy /hly to Slightly :k, Joints Dip Narrow to Ti	E to Fine kly Bedded, roxene/ Weathered, from 20° to abt_Surface		- 	NQ-1				%REC=32, %RQD=29 RMR=62, GSI=45-55
540.2 Very Narrow, Sufrace stain/Filled (rion Oxide/Quartz), irregular, Very Close, Slightly Rough to Rough 35.9 @35.0-ft: UC Strength=39.210 psi 6 @NQ-3: Joints Dip from 20° to 70°, Occasional Joints/Bedding, Very Narrow to Tight, Surface Stain/Filled (Calcite/Quartz), Irregular, Very Close, Smooth to Slightly Rough NQ-3 %REC=98. %RQD=83, GSI=35-45 535.2	-	-	 @NQ-2: Grayish Extremely Strong to 70°, Occasion 	Oxide/Quart htly Rough to Green/White Rock, Joints al Joints/Bedo	/Gray, Dip from 20° ling, Narrow to			NQ-2				- %REC=98, %RQD=90, RMR=68, GSI=50-60
535.2	540.2-	-	Very Narrow, Su Oxide/Quartz), Ir Rough to Rough @NQ-3: Joints E Occasional Joint: Tight, Surface St Irregular, Very C Rough	rrace Stain/Fil regular, Very Dip from 20° to s/Bedding, Ve ain/Filled (Cal lose, Smooth	ed (iron Close, Slightly 5 70°, ry Narrow to cite/Quartz), to Slightly		35.9 -	-				@35.0-ft: UC Strength≕39,210 psi - -
- @NQ-4: Grayish Green/White/Gray/Black, Joints Dip from 10° to 70°, Numerous Joints/Shears, Narrow to Very Narrow, Surface Stain/Filled (Healed/Chlorite), Irregular, Very Close, Slickensided to Slightly Rough -	- 535.2-	_	-				- 40.9	NQ-3 - -				%REC=98, %RQD=83, GSI=35-45
45.9 Coring Terminated at 45.9 feet		-	@NQ-4: Grayish Joints Dip from 1 Joints/Shears, N Surface Stain/Fil Irregular, Very C Rough	Green/White 0° to 70°, Nu arrow to Very ed (Healed/C ose, Slickens	/Gray/Black, nerous Narrow, nlorite), ided to Slightly			NQ-4				- - %REC=98, %RQD±75, GSI=35-45 -
		45.9	Coring Terminate	ed at 45.9 feet			-		-			
I I I VI KII A												
SAMPLER TYPE DRILLING METHOD		6 1939 - 2000	SAMPL	ER TYPE		LE	GEND		jane.		RILLIN	IG METHOD
SS - Split Spoon NQ - Rock Core, 1-7/8" HSA - Hollow Stem Auger RW - Rotary Wash UD - Undisturbed Sample CU - Cuttings CFA - Continuous Flight Augers RC - Rock Core AWG - Rock Core, 1-1/8" CT - Continuous Tube DC - Driving Casing Priving Casing	65 - 5 JD - L AWG - F	Split Spoo Indisturb Rock Cor	on ed Sample e, 1-1/8"	NQ - Rock CU - Cuttin CT - Conti	Core, 1-7/8" gs nuous Tube		HS/ CF/ DC	A - Hollo A - Conti - Drivir	w Stem A inuous Fl ng Casing	Auger light Aug g	jers	RW - Rotary Wash RC - Rock Core

REV.				YORK COUNTY
REV.				PENNIES FOR PROGRESS
REV.				BORING LOGS SHEET 3 OF 7
REVIEV	WED			SC 557
QUAN.				BDINGE AVED CDAWNEDS CDEEK
DR.	WBA	LKA	7/19	DITINGE OVER CITONDERS CITEER
DES.				COUNTY ROUTE
	BY	CHK.	DATE	YORK SC 557



Project	ID: G	4843.000			Col	inty:	York	<			Boring No	o.: B-7	
Site De	scripti	on: SC 557	Bridge over Crowder	s Creek	(Rou	ite: SC 5	57	
Eng./Ge	eo.: R	. VVessinger	Boring Location	257+7	(U ituda:	Offse	et: 22	: tt - F	(D	Align	nent:∣Ma tod:		10
Total D	enth		il Denth: 27.5 f	C	ore De	<u>∣-0⊺.⊺</u> nth:	20.8	R ft	Da	te Stan	nleted	6/5/20	18
Bore He	ole Dia	meter (in): 6	Sampler Cor	figurat	ion	Line	er Rec	juire	d:	YN	Liner	Used:	Y N
Drill Ma	chine	CME 550X	Drill Method: HS	A/RC	1	lamm	er Typ	e: A	utom	iatic	Energy	Ratio: 8	31%
Core Si	ze:	NQ	Driller: D. Har	ris		Groun	dwate	r: TO	DB (5.0 ft		24HR 6	6.5 ft
			G ()		-			1.					
											● SP1	N VALUE	
) tion	, th			ahic	e te c	ple			1	ani	PL X		×
Eleva (ft	Der (ft	MATERIAL	DESCRIPTION	Grap	Dep	Sam Io./T	t 6" d 6"	16"	"9 ·		▲ FINES	CONTENT	(%)
ш	-	METAGARPRO			275	· Z	1s 2n	3rc	4	0 10	20 30 40	50 60 7	0 80 90
-	-	Gravish Green/M/h	ite. Fine to Medium		21.3								
-	-	Grained, Very Thic	kly Bedded, Plagioclase		- 1	NQ-1				%RI	EC=85, %RC	D=47, GSI	=50-60
544.4	30.3	Slightly Weathered	, Joints Dip from 45° to		30.3								
1000		70°, Few Joints, Ve Surface Stain/Filler	ery Narrow to Tight, I (Calcite/Iron Oxide)		-					@30).9-ft: UC Str	ength=8,2	00 psi
	_	Irregular, Very Clos	e, Slightly Rough to		-								
	4000			-' 🔣	X	NQ-2				%RI	EC=100 %R	QD=100 R	MR=70
-	-		ita Madium Ordinad		-					GSI	=65-75		
-	-	Thickly Bedded, Pla	agioclase		-								
539.4-	-	Feldspar/Hornblend	te, Slightly Weathered to , Joints Dip from 20° to		35.3								
100	(<u></u>	60°, Few Joints, Ve	ery Narrow to Tight,		-	-							
100	_	Slightly Rough to R	ieu), irregular, very Clos lough	",	-	-							
		@NQ-3: Very Stro	ng Rock, Joints Dip from			NQ-3				%RI	EC=95, %RC	2D=80 RMI	R=69,
		20° to 80°, Few Joi Surface Stain (Iron	nts, Very Narrow to Tigh	t, 🚺						GSI	=60-70 3 2-ft: LIC St	renath=17	190 nsi
-	-	Close, Slightly Rou	gh to Rough		-								
534.4-	40.3	METACAPPROM			40.3								
-	-	Gravish Green/Wh	ite, Fine to Medium		- 1	-							
Norse .	6. 	Grained, Thickly to	Very Thickly Bedded,		-	-							
100	-	Feldspar//Clinopyro	xene/Hornblende, Slight	y 🕅	-	NQ-4				%RI	EC=93, %RC	D=85, GSI	=60-70
_	_	VVeathered to Fres 70°, Few Joints, Ve	n, Joints Dip from 20° to ery Narrow, Surface		-	-							
500 A		Stain/Partially Filled	l (Chlorite), Irregular, Vei	у 🅢	1								
529.4-		@NCL5: Jointe Din	$from 20^\circ to 60^\circ = 60^\circ$		45.3				_				
-	-	Joints, Tight, Filled	(Calcite), Irregular, Very										
4 <u>17 -</u>	<u> 1997 -</u>	Close, Slightly Rou	gn to Rough		- 1	NQ-5				%RI	±C=99; %RC	≀D=99, GSI	=65-75
-	48.3	10 10 10 10 10 10 10 10			- 2								
der -	1.000	Coring Terminated	at 48.3 feet		100	-							
524 4 -	_												
T. C. M.	6.7.1												
	_												
	-					-							
New York	8				5	-							
-	-					-							
10				50.54									
				LE	:GEND	1			ייסס		THOP		
<u></u>	Solit Spor	SAMPLE	NO - Rock Core 1-7/8"		HS	A - Holla	w Stem	Auger	URIL	LING ME R	W - Rotany	Wash	



BRIDGE OVER CROWDERS CREEK

route SC 557

Project	ID: C	G4843.000	c		angerson A			Co	unty:	Yo	ork				Bo	ring N	lo.: [3-8				
ing./G	eo.: (Dir: SC 5 C. Piercy	JI BL	Borii	ng Lo	cation:	258+	r. 76	Offs	et:	9 ft -		A	lign	imer	150 it: M	307 ainlin	ie				
ilev.: otal D	574.4	ft Latitu 46.6 ft	ide: Soil	3 Depth	35.120 I:)351 26.6.#	Long	itude:	-81.1 epth:	1301	1 Ift	C r	Date Date	Sta	rted mple	ted:	5/ 5/	30/2 30/2	018 018		-	
Bore H	ole Dia	ameter (in):	6	S	Sampl	er Con	figura	tion	Lin	er R	equire	ed:	Y	0))	Line	er Us	ed:	Y	(\mathbb{N})	1	
Orill IVk Core S	ize:	: CME 550)	X I	Drill M Driller	lethoc :	I: HS D. Harr	is		Groun	ier T idwa	ype: / ter: T	ioe	omat 3 5.3	:ic 3 ft	E	nerg	y Rat 24F	10: 8	31% Vot R	ecoi	rded	
			1.											P		• SP			•			
5							U	ω_	e e				U		Ę	ч. Л	мс		ĻĻ			
levatio (ft)	Depth (ft)	MATER	RIAL [DESCF	RIPTK	NC	Graphi	Sampl Depth	Sampl	t 6"	d 6" 1 6"	ı 6"	N Valu					TENT	→ (%)			
<u> </u>	0.0	Woodland Very Soft, Mois	st, Brov	wn, Nor	n-Plasti	c, Sandy		0.0	"Z	1st	3rd 3rd	4th	~	0 1	0 20	30 4	0 50	<u>60</u> 7	7 <u>0 80</u>	90	-	
	-	<u>SILT (ML/A-4(0</u> @SS-1: LL=NF	<u>))</u> , Mu P, PL=	ınsell=7 NP, PI=	.5YR 5 NP,	/4			- SS-1	wo	DH/18"	2	WOH	•		0					-	
4 <u>111</u>	<u>~</u>	NMC=33.9%,	%#200 itv д_2	⊫63.2 1(5)				2.0						-							-	
-	-	@SS-2: LL=34 %#200=68.0	, PL=2	26, PI=8	, NMC	=27.7%,		· , ; ,	- SS-2	3	2 2	1	4	٠		ю×		2			-	
-	-	=> <u>A-4(1)</u>												-							-	
569.4-	_	@SS-3: LL=30 ₩200=56.1), PL=2	26, PI=4	, NMC	=30.9%,			- SS-3	woi	+ 1 1	1	2	•		×ø	-				-	
1 <u></u>	-	=> Light Yellow	ish Br	own, <u>A-</u>	4 <u>(3)</u> ,			6.0													-	
Yest	Vero	@SS-4: NMC=	6/4 47.9%	, D					- SS-4	W	/OH/24"	I	WOH	•	>	(X	0				-	
-		=> Grayish Bro	wn, <u>A-</u>	<u>-4(2)</u> , M	lunsell=	=10YR		8.0													-	
)	-	@SS-5: LL=31	, PL=2	25, PI=6	, NMC	=35.3%,			- SS-5	W	/OH/24"	i	WOH	•	2	↔o	4	•			1	
564.4-	-	,0 7200-00 .0																			1	
<u>1997</u>		-							12												1	
2 -1 2		1																			1	
-	13.5	Very Loose, W	et, Gra	ay, Non-	Plastic	, Silty	- <u>19</u> 1 - 191	13.5						-]	
		Fine <u>SAND (SI</u> @SS-6: LL=NI	<u>M/A-2-</u> P, PL=	<u>4</u> , Muns NP, PI=	sell=2.5 NP.	5Y 5/1			SS-6	WOI	H 1 2		3			•0]	
JJ9.4-		NMC=33.3%, 9	%#200	=25.5	···· •																	
1 1911																						
-	_	=> Grayish Bro	wn, M	unsell=:	2.5Y 5/	2		18.5		1	50 or	_		1								
554.4-		@SS-7: LL=NF NMC=30.3%, 9	⊃, PL= %#200	NP, PI= =14.1	NP,				SS-7	1	1 1		2			0						
	-																					
	_	-							_												-	
12	-	-						22.5													-	
		QAMI	ד קבן וכ	YPF			L	EGENE)	đ		ח	RILLI		IFTUC	С	ontini	ued .	Next	Page	- e T	
SS - 8 UD - 1	Split Spo Jndisturt	on bed Sample	N	Q - Roc U - Cutt	k Core, ings	1-7/8"		HS CF	SA - Holl A - Con	ow Ste tinuou	m Auge s Flight .	r Aug	ers	NI O IV	RW -	Rotar Rock	y Wasł Core	n				
AWG - I	Rock Col	re, 1-1/8"	С	T - Con	tinuous	Tube		DC	C - Drivi	ing Ca	sing											
		I																				
			REV	∕. ├				-					7	YC	D R	K	$\mathbb{C}\mathbb{C}$) U	NI	Y		
								\neg			\mathbb{P}	EI	NN	JII	ES	FC	DR	\mathbb{P}	PRC) G	RE	ESS
			REV	′.			·	_ -														
			₽₽₹	, L										BC	DR	IN	G	\mathbb{L}	,00	JS	I	
			ILC V	· •									(SH	IE	ET	4	(ЭF	7	7	
			REV	/IEWF	ED		-									SC	5	57	,			
				-																		

QUAN.

DR. DES.

WBA LKA 7/19

BY CHK. DATE

county YORK







Site De Eng./G	t ID: G	4843.000		23		Cou	inty:	York		Boring No.: B-9	
1.000	eo.: C	on: SC 557 Bridge Piercy Br	e over Cro oring Loc	owders C cation: 2	Dreek 258+6	7	Offse	et: 19 ft - R	A	Route: SC 557 Alignment: Mainline	_
Elev.: Total D	574.0	ft Latitude: 40.9 ft Soil Der	35.1202	247 L 20.9.ft	ongit	tude: pre Dei	-81.1	13053 20 ft	Date Date	Started: 5/31/2018 Completed: 5/31/2018	3
Bore H	ole Dia	ameter (in): 4	Sample	er Config	gurati	ion		er Required	: Y	Liner Used: Y	N (
Core Si	ize:	NQ Dril	ler:	: RVV/r D. Harris	RU	r (amm Groun	er Type: Au dwater: TO	omat B 5.0	IcEnergy Ratio:81%0 ft24HRCav	₀ re 6.2-f:
										● SPT N VALUE ●	
(ţ,				d hic	ett.	ple ype		Ine	PL MC LL	
Eleva (ft)	(ff)	MATERIAL DES	SCRIPTIC	N	Grap	Can Dep	Sam No./T	lst 6" 2nd 6" 3rd 6"	N Va	▲ FINES CONTENT (%)	30 90
		METADIORITE White/Grav/Black, Mediur	m Grained.	Thickly		20.9				@21.7-ft: UC Strength=19.840	psi
_	_	Bedded, Plagioclase Felds Moderately to Slightly We	spar/Hornbl athered, Ve	lende, ery		_					-
_	-	Numerous Joints, Very Na Surface Stain (Iron Oxide)	arrow to ⊺iç arrow to ⊺iç a). Irreqular.	b0°, ght, Verv		-	NQ-1			%REC=86, %RQD=40 RMR=5	-
_		Close, Slightly Rough to F	Rough	,		-				GSI=40-50	-
549.0-						-					
4 <u>17-</u>	. <u>~</u>	@NQ-2: Very Strong Roc 30° to 60°. Occasional Jo	ck, Joints D bints, Verv №	ip from Jarrow to		25.9			2	-	-
4 <u>11</u>	. <u>~</u>	Tight, Surface Stain (Iron Very Close, Slightly Roug	Oxide), Irre th to Rough	∍gular, ∣		-					-
-1011						-	NQ-2			@28.1-ft: UC Strength=26,980	psi
1	-									%REC=85, %RQD=70, RMR= GSI=40-50	60, _
544.0-	i desta de la composición de										
-	30.9					30.9			-		
	_	Thickly to Very Thickly Be Feldspar/Clinopyroxene/H	edded, Plag fornblende,	ioclase Slightly		-					-
-		Weathered to Fresh, Joint 60°, Few Joints, Very Nar (Calatta), Irragular, Very (Its Dip from rrow to Tigh	30° to nt, Filled		_	NQ-3			%REC=100, %RQD=99, GSI=5	5-65
<u></u>	. <u> </u>	Rough to Rough	Juse, Silgri	uy		-					-
539.0-											
	35.9	METADIORITE				35.9				-	-
-	_	White/Gray/Black, Mediur Bedded, Plagioclase Felde Fresh Joints Dip from 20	m Grained, spar/Hornb	Thickly lende,		-					-
-	-	Joints, Very Narrow to Tig Filled/Filled (Calcite), Irreç	ght, Partially gular, Very	/ Close,		-	NO-4			%PEC-94 %POD-93 CSI-55	-
-	-	Slightly Rough to Rough				_					-
534.0-						-					
	40.9	Coring Terminated at 40.9	9 feet							-	-
					LE	GEND					<u>, p</u>
			-	1-7/8"		HSA CFA	- Hollo - Conti	w Stem Auger inuous Flight Au	gers	NG METHOD RW - Rotary Wash RC - Rock Core	
SS - S UD - L	Split Spox Jndisturb	SAMPLER TYPE n NQ - I ed Sample CU - (Rock Core, ' Cuttings				- Drivir	ng Casing			
SS - S UD - L AWG - F	Split Spox Jndisturb Rock Cor	SAMPLER TYPE on NQ - 1 ed Sample CU - (e, 1-1/8" CT - (Rock Core, Cuttings Continuous	Tube		DC	Britt				
SS - S UD - L AWG - F	Split Spox Jndisturb Rock Cor	SAMPLER TYPE on NQ - 1 red Sample CU - 0 e, 1-1/8" CT - 0	Rock Core, Cuttings Continuous	Tube		DC	DIM				
SS - S UD - L AWG - F	Split Spox Jndisturb Rock Cor	SAMPLER TYPE on NQ - 1 red Sample CU - (e, 1-1/8" CT - (Rock Core, Cuttings Continuous	Tube							
SS - E UD - L AWG - F	Split Spox Jndisturb Rock Cor	SAMPLER TYPE on NQ - led Sample CU - (e, 1-1/8" CT - (Rock Core, Cuttings Continuous	Tube							
SS - E UD - L AWG - F	Split Spox Undisturb Rock Cor	SAMPLER TYPE on NQ - 1 led Sample CU - (e, 1-1/8" CT - (Rock Core, Cuttings Continuous	Tube							
SS - S UD - L AWG - F	Split Spox Jndisturb Rock Cor	SAMPLER TYPE on NQ - 1 led Sample CU - (e, 1-1/8" CT - (Rock Core, Cuttings Continuous	Tube							
SS - S UD - L AWG - F	Split Spox Jndisturb Rock Cor	SAMPLER TYPE on NQ - led Sample CU - (e, 1-1/8" CT - (Rock Core, Cuttings Continuous	Tube							
SS - E UD - L AWG - F	Split Spox Jndisturb Rock Cor	SAMPLER TYPE on NQ - 1 led Sample CU - (e, 1-1/8" CT - (Rock Core, Cuttings <u>Continuous</u>	Tube							
SS - E UD - L AWG - F	Split Spox Jndisturb Rock Cor	SAMPLER TYPE on NQ - 1 led Sample CU - 0 e, 1-1/8" CT - 0	Rock Core, Cuttings <u>Continuous</u>	Tube							
SS - E UD - L AWG - F	Split Spox Jndisturb Rock Cor	SAMPLER TYPE on NQ - ed Sample CU - ' e, 1-1/8" CT - '	Rock Core, Cuttings Continuous	Tube							
SS - E UD - L AWG - F	Split Spo Jndisturb Rock Cor	SAMPLER TYPE on NQ - I led Sample CU - I e, 1-1/8" CT - I	Rock Core, Cuttings Continuous	Tube							
SS - E UD - L AWG - F	Split Spox Jndisturb Rock Cor	SAMPLER TYPE on NQ - 1 led Sample CU - 1 e, 1-1/8" CT - 1	Rock Core, Cuttings Continuous							YORK COUN	TY
SS - E UD - L AWG - F	Split Spox Jndisturb Rock Cor	SAMPLER TYPE on NQ - 1 led Sample CU - 1 e, 1-1/8" CT - 1						ЯŨ		YORK COUN	TY Ogrfss
SS - E UD - L AWG - F	Split Spo Jndisturb Rock Cor	SAMPLER TYPE on NQ - 1 led Sample CU - 1 e, 1-1/8" CT - 1 REV.						PE	NN	YORK COUN JIES FOR PR	TY OGRESS
SS - E UD - L AWG - F	Split Spo Jndisturb Rock Cor	SAMPLER TYPE on NQ - 1 led Sample CU - 1 e, 1-1/8" CT - 1 REV. REV.	Rock Core, Cuttings Continuous					PE	NN	YORK COUN VIES FOR PR BORING LO	TY OGRESS OGS
SS - E UD - L AWG - F	Split Spo Jndisturb Rock Cor	SAMPLER TYPE on NQ - 1 led Sample CU - 1 e, 1-1/8" CT - 1 REV. REV. REV.	Rock Core, Cuttings Continuous					PE	NN	YORK COUN JIES FOR PR BORING LO SHEET 5 OF	TY OGRESS PGS ₹ 7
SS - E UD - L AWG - F	Split Spo Jndisturb Rock Cor	SAMPLER TYPE on NQ - 1 led Sample CU - 1 e, 1-1/8" CT - 1 REV. REV. REV. REV.	Rock Core, Cuttings Continuous					PE	NN	YORK COUN VIES FOR PR BORING LO SHEET 5 OF SC 557	TY OGRESS OGS 7
SS - E UD - L AWG - F	Split Spo Jndisturb Rock Cor	SAMPLER TYPE on NQ - 1 led Sample CU - 1 e, 1-1/8" CT - 1 REV. REV. REV. REV. REV. DD	Rock Core, Cuttings Continuous		7/10		BR	PE	NN 2 0	YORK COUN JIES FOR PR BORING LO SHEET 5 OF SC 557 VER CROW	TY OGRESS OGS 7 DERS CREE

DocuSign Envelope ID: 100147DB-F886-40F5-8592-312038CAFA1E



Project	ID: C	64843.000	D VII			Cou	nty:	York		Bori	ng No.:	3-10	
Site De	script	ion: SC 557 I	Bridge over Crov	wders	Creek		The stream of the stre			Route:	SC 557		
Eng./G	eo.: (C. Piercy	Boring Loca	tion:	259+1	6	Offse	:t: 19 ft - F		lignment Startadi	: Mainlin		
Elev.: Total D	0/3.2		il Denth: 1	03ff	Long	tude:	-01.1	6.8.ft	Date	Started:	0/ 0/	31/2018	
Bore H	ole Di	ameter (in): 4	Samplei	Conf	igurat	ion	Line	er Require	d: Y	(N)	Liner Us	ed: Y	(N)
Drill Ma	chine	: CME 550X	Drill Method:	RW	/RC	H	lamme	er Type: A	utomati	c En	ergy Rat	io: 81%	
Core Si	ze:	NQ	Driller: D.	Harris	S	G	round	dwater: T	DB 5.0	ft	24	IR 0.3 f	t
											NO NO		
, tion	÷				ghic) the	ple ype		alue	PL ×		X	
Eleva (ft	Dep Dep	MATERIAL	LDESCRIPTION	1	Grap	Dep Dep	Sam Vo./T	it 6" Id 6" d 6"	N <8	▲ F	INES CON	TENT (%)	
<u>,</u> Щ	0.0	■Verv Loose Moist	Brown Low Plastic	•itv	- 2000	0.0		1s 3r 3r	ŧ	0 10 20 3	<u>30 40 50</u>	60 70 80	<u>90 (</u>
		Silty Fine SAND (S	<u>M/A-4(0))</u> , Micaceo	ous,									
100	122	Munsell=7.5YR 4/4	-27 DI-2 NMC-2	F 10/			00.4	WOUM	WOL				
		%#200=44.5	. 27, 11-0, INMO-2	J. 170,			00-1	VVOH/24					
	0.0												ļ
-	2.0_	Very Soft, Moist, B	rown, Non-Plastic,	Sandy		2.0							
		<u>SILT (ML/A-4(0))</u> , № 6/4	Micaceous, Munsel	⊨10YR									
-	170	@SS-2: LL=NP, PL	L=NP, PI=NP,				SS-2	WOH/18"	1 WOH		0 🔺		
		NMC=35.2%, %#2	00=50.9					ALL	1				
	4 0					40							
		Very Loose, Moist t	to Wet, Brown,										
		Munsell=10YR 5/3	THE SAND (SM/A-2	<u>-4),</u>									
568.2-	-	₩055-3: LL=NP, PL	L=NP, PI=NP,			- 1	SS-3	1 1 2	2 3 >	• • •	>		
		INING-29.3%, %#2	00-19.0										
<u></u>	1 <u></u>					6.0							
		=> vvet, Light Brow 6/2	vnish Gray, Munsel	=10YR									
		@SS-4: LL=NP, PL	L=NP, PI=NP,				<u> </u>						
-		NMC=29.8%, %#2	00=20.3				SS-4	121	1 3 >		0		ļ
2007	8.0_	Very Loose Wet G	Gravish Brown Low			8.0							
		Plasticity, Silty, Cla	yey Fine <u>SAND</u>										ļ
_	_	Munsell=2.5Y 5/2	nui Organics,				SS-5	W/OH/24"	WOH				
		@SS-5: LL=24, PL	=20, PI=4, NMC=2	9.4%,									
		70#∠∪∪=49.4											
563.2-	1					1 1							
<u></u>	1					. –							
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	-												
	13.5									E E	Contin	und Nov	: t Doc
and other		SAMPLE	R TYPE		LE		a ayuna sa	production of the	DRILLIN	G METHOR)	ueu wexi	r ag
SS - 5	Split Spo	on	NQ - Rock Core, 1-	7/8"		HSA	- Hollo	w Stem Auger		RW - I	Rotary Wasl	า	

BRIDGE PLANS ID	SHEET NO.
0041800-B01	16

Site De	t ID: G	64843.000	e over Ci	rowders	Creek	Cou	inty:	York			Boute:	ring No	o.: B	8-10			
Eng./G Elev.: Fotal D Bore H Drill Ma Core S	eo.: C 573.2 Depth: ole Dia achine ize:	Diercy Boot ft Latitude: 26.1 ft Soil Department ameter (in): 4 CME 550X Dril NQ Dril	oring Lo 35.120 oth: Samp Methoo ler:	cation: 0237 19.3 ft er Conf 1: RW D. Harri	259+1 Longi Co igurat //RC s	6 tude: ore De ion ł	Offse -81.1 pth: Lin Hamm Groun	et: 19 ft 12888 6.8 ft er Requ er Type dwater:	- R D red: Auto	A Date : Date : Y mation 5.0	lignmen Started: Comple N c E ft	ted: Liner	inline 5/3 5/3 Use Rati	e 31/201 31/201 d: \ o: 81 R 0.3	18 18 Y (% 3 ft	<u> </u>	
											9.	• SPT	N VAL	UE			
Elevation (II) - 558.2-	Depth (ft)	MATERIAL DES Very Soft, Wet, Grayish E Plasticity, Sandy, Silty <u>CL</u> Micaceous, with Organics @SS-6: LL=25, PL=18, F %#200=56.5	SCRIPTIO Brown, Low AY (CL-M G, Munselle 1 = 7, NMC	DN <u>v L/A-4(1))</u> =2.5Y 5/2 =39.9%,	Graphic	Sample Depth	Sample Solution Sample	1 HOW	0 n c 7 t 4th 6 1	N Value	0 10 20	€ FINES <u>30 40</u> < ©		L ENT (9 50 70	L 	-	
- - 553.2-	18.5	=> Gray, Munsell=2.5Y 5. PARTIALLY WEATHERE SAMPLED AS: Hard, We Non-Plastic, Silty Fine <u>SA</u> Organics (Wood), Munse METAGABBRO Grayish Green/White, Me Thickly Bedded, Plagiocla Feldspar/Clinopyroxene, S Very Strong Rock Joints	D ROCK t, Gray, ND (SM/ II=2.5Y 5/ dium Grai se Slightly We Dip from 2	(PWR) (-4), with ned, Very eathered, 20° to			SS-7 	50/4" 50/0"		100+ 1 00+	@19.4-fl %REC= GSI=55	: UC Sti 98, %R 65	rength QD=98	=26,67 8 RMR	'0 psi =72,	-	
- - 548.2-		40°, Few Joints, Very Nai Surface Stain/Filled (Iron Irregular, Very Close, Slig Rough @NQ-2: Joints Dip from Joints/Veins, Very Narrov Stain/Filled (Iron Oxide/Qi Very Close, Slightly Roug	row to Tig Oxide/Qua htly Roug 10° to 40°, / to Tight, Jartz), Irre h to Roug	Few Surface gular, h		-	NQ-2				%REC={	30, %RC	2D=79	.GSI=5	50-60	-	
-	26.1-	Coring Terminated at 26.	l feet			-	-									_	
					LE	 Gend	1.000										
SS - 5 UD - 1	Split Spo Undisturt	SAMPLER TYPE	Rock Core, Cuttings	1-7/8"		HSA CFA	A - Hollo A - Cont	w Stem Au nuous Flig	DF ger nt Auge	RILLIN #rs	G METHO RW - RC -	D Rotary Rock C	Wash ore				
		REV.						 11) E V	r V	YOR:	K (CO R	UN	TT ≷∩	Y GRF.s.s	
		REV.				╞			л <i>А</i> А	₩ ⊾ ₽ ₩ 1			<u>лк</u>	и и п /			
		DEX				SHEET 6 OF 7						3					
		KEV.								Ç	HE	E.I.	P	\bigcirc	₽,	1	

Site Description: SO: 557 Endge over Crowders Creek Rotut: SC: 557 Eng/Geo: R. Wessinger Boring Location; 225-66 Offset: 20.1 R. Magment: Magmen	Project	ID: G	4843.000	24 Aug					Co	unty:	York			B	oring N	o.: AP-'	1	
Engl.Geol. IR. Wessinger Boring Location (256-66) Offset: [20.1-R Alignment: [Mainine - 55.1003] Longitude: [35.1007] Date Stated: [402/018] Total Depth: 37.4 ft Soil Depth: 37.4 ft Core Depth: 0.1 Date Completed: 68/2018 Bore Hole Diameter (III): [6] Sample Configuration Liner Required: Image: Stated: 6.66/2018 Energy Ratio: 61% Core Size: NVA Drill Machine: [D. Harris Groundwater: ITOB [15 ft 244R] Not Recc Sige	Site De	scripti	on: SC 5	57 Bridge	over C	rowde	rs C	reek		-				Route	e: SC 5	57		
Elev:: 575.6 ft Latitude: 95.120303 Longitude: -9.11407 Date Startest: 6/8/2018 Bore Hole Diameter (in): 6 Sampler Configuration Liner Required: Y 0) Liner Used: Y 0) Drill Machine: C/ME 550X Drill Mathed: ID R Harmer Type (Automatic Encry Ratic 81%) Core Size: N/A Drill Mathed: ID R Harmer Type (Automatic Encry Ratic 81%) Core Size: N/A Driller: D. Harris Groundwater: TOB [16 ft 244HR Not Rece Sige fig fig fig fig <td< th=""><th>Eng./G</th><th>eo.: R</th><th>. Wessinger</th><th>Bo</th><th>ring Lo</th><th>ocatio</th><th>n: 2</th><th>55+6</th><th>6</th><th>Offse</th><th>et: 20 ft</th><th>- R</th><th>Ali</th><th>ignme</th><th>ent: Ma</th><th>inline</th><th>5750 T</th><th></th></td<>	Eng./G	eo.: R	. Wessinger	Bo	ring Lo	ocatio	n: 2	55+6	6	Offse	et: 20 ft	- R	Ali	ignme	ent: Ma	inline	5750 T	
Iora Leprin: 37.4 ft Sol Depri: 37.4 ft Sol Depri: 10.4 ft Date Complete: 0.8 Liner Use: Note:	Elev.:	575.6	ft Latitu	de:	35.12	0303	_ L	ongi	ude:	-81.1	14057		Date S	starte	d: 	6/8/20)18	
Bote Froie Drameter (m): 0 Sampler Configuration Enter Reduration 0 Enter Status Core Size: N/A Drill Machine: Type: Automatic Enter Status 24HR Not Recc Size: N/A Drill Machine: D. Harris Groundwater: TOB 15 ft 24HR Not Recc Size: N/A Drill Machine: D. Harris Groundwater: TOB 15 ft 24HR Not Recc Size: N/A Drill Machine: D. Harris Groundwater: TOB 15 ft 24HR Not Recc Size: N/A Drill Machine: D. Harris Groundwater: TOB 15 ft 24HR Not Recc Size: Size: MATERIAL DESCRIPTION Size: Size: Size: Size: 0 10 20 30 40 60 60 70 80 00 Size: -	Total D	epth:	37.4 ft	Soll Dep	th:	37.4	Π mefin	Co	ore De	epth:	0π 	 :	Date C	compl	eted:	6/8/20	J18	<u>A</u>
Solution Difference Difference <thdifference< th=""> <thdifferee< th=""></thdifferee<></thdifference<>	Bore H	ole Dia		Drill	Samp	a. ⊔	SA	urati	on	Line	er Requi	irea:	matic		Liner	Usea: Patio:	1 81%	N
Sec Sec MATERIAL DESCRIPTION Body Sec Bege Sec <	Core S	ize:	N/A	Drill	er:	D. Ha	rris			Ground	dwater:	TOE	15 f	t I	Litergy	24HR	Not Re	eco
9 9 <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td>1</td> <td></td> <td>5</td> <td></td> <td></td> <td></td> <td></td>				1					1			1		5				
No. N															SPT	N VALUE	•	
Note: Naterial Description Note:	<u>io</u>	ء						- <u>i</u> c	e c	ele pe			e		PL X		LL —X	
Image: constraint of the second se	evat (ff)	(#)	MATER	RIAL DES	CRIPT	ION		Log	(f) (f) (f)	amp A		مة م	Val				T (%)	
545.6	ū	10-10						U	<u>თ</u> –	σž	1st 2nd	Srd 4th	z	0 10 2	0 30 40	50 60	70 80	90
545.6 - 540.6 - - -																		
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540.6 - <td></td> <td>ł</td>																		ł
37.4 Boring Terminated at 37.4 feet Due to Auger 37.4 SS-1 100" 100+ 535.6 - - - - - - 530.6 - - - - - - 530.6 - - - - - - 530.6 - - - - - - 530.6 - - - - - - 6 - - - - - - 530.6 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <t< td=""><td>540.6-</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td><td> </td><td></td><td></td><td></td><td></td><td><u></u></td></t<>	540.6-	-							2									<u></u>
37.4 Boring Terminated at 37.4 feet Due to Auger 37.4 SS.1 100 ⁿ 100 ⁿ 535.6 - - - - - - 535.6 - - - - - - 535.6 - - - - - - 535.6 - - - - - - 535.6 - - - - - - 530.6 - - - - - - 530.6 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>З</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									З									
37.4 Boring Terminated at 37.4 feet Due to Auger 37.4 SS-1 10/0" 100+ 535.6 - - - - - - 535.6 - - - - - 536.6 - - - - - 536.6 - - - - - 536.6 - - - - - 536.6 - - - - - 537.4 - - - - - 537.6 - - - - - 537.6 - - - - - 537.6 - - - - - 537.6 - - - - - 537.6 - - - - - 537.6 - - - - - 537.6 - - - - - 537.6 - - - - - - - - - - - - - - - - - -	_	_																
535.6		37.4	Boring Termina	ted at 37.4	feet Due	e to Aua	er		37.4	SS-1	10/0"		100+					>>
			Refusal at Top	of Rock					3									
	1-								3									
	535.6-								2							8 8		1
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	530.6-	-							2	-			-	8			<u> </u>	8
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LEGEND	.=								2									
SAMPLER TYPE DRILLING METHOD								LE	GENE)				0		c C	<u>e</u> 6	65
CO Solit Choop NO Book Core 4 7/91 LICA Lialian Core American Dial Data Micro	<u> </u>	Colit Cont	SAMF		look Cara	× 1 7 <i>/</i> 0"				A 11-11-	u Chana A.	D	RILLING		HOD	Mach		

BRIDGE PLANS ID	SHEET NO.
0041800-B01	16A

roject	t ID:	64843.00)					Co	ounty	:	York				Borin	g N	o.: /	<u> 1P-2</u>		
ite De	script	ion:	SC 557	Bridge	over (Crowder	s Creek		-					Rou	te:	SC 5	557			
ng./G	eo.: (). Piercy		Во	ring L	ocation	: 259+2	26	Of	set:	17	ft - L	A	lignn	nent:	Ma	ainlin	е	1.2	
lev.:	573.7	ft	atitude:	:	35.12	20333	Longi	tude:	-81	.112	2848		Date	Start	ed:	8.01	6/	1/20	18	
otal D	epth:	24.5 f			th:	24.5 f	t C	ore D	epth:		0π 		Date	Com	plete	d:	6/	1/20	18	()
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ore Si	ize:		JJUX	Drill	Metho Pr:	D Har	ris		Gro	und\	vater		B No	u t Reci	order	ryy 1	24H		Cave	2 0-f
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	0.0	Drill to 13	3.0 feet								<u> </u>				20 5	<u>, 40</u>			<u> </u>	
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	_	(SM/A-4	<u>(0))</u> , Muns	ell=7.5	/R 5/4					_2			8	k						
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-	17.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	oð.J				_/	-	-											
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s <u>s</u> - s	Split Spc	on	SAIVIPLE	NQ - R	ock Cor	e, 1-7/8"		H	SA - H	ollow	Stem /	Auger	DRILLIN	NG ME R\	N - R	otary	Wash	i		
JD - L \WG - F	Jndisturl Rock Co	ed Sample		CU - C CT - C	uttings ontinuo	us Tube			-A - Ci C - Di	ontinu rivina	Jous Fl Casing	light Au a	Igers	R	C - R	ock C	Core			
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		-	_			
REV.					YORK COUN	TY
REV.				PE	NNIES FOR PR	OGRESS
REV					BORING LC	DGS
ILD V.					SHEET 7 O	F 7
REVIEV	VED				SC 557	
QUAN.				DDINCE		NEDG CDEEK
DR.	WBA	LKA	3/21	DRIDGE	UVER CRUW	DERS CREER
DES.				COUNTY		ROUTE
	BY	CHK.	DATE	YORK		SC 557

![](_page_17_Figure_1.jpeg)

![](_page_18_Figure_1.jpeg)

![](_page_19_Figure_0.jpeg)

![](_page_19_Figure_1.jpeg)

![](_page_20_Figure_1.jpeg)

![](_page_21_Figure_1.jpeg)

![](_page_21_Figure_2.jpeg)

![](_page_21_Figure_3.jpeg)

![](_page_21_Figure_4.jpeg)

![](_page_21_Picture_8.jpeg)

![](_page_22_Figure_1.jpeg)

Reinforced pile tips with teeth are required to mitigate hard driving conditions at End Bent'I and End Bent 5. Install the reinforced pile tips in accordance with the manufacturer's installation recommendations. Include the cost of providing teeth on the reinforced pile tips in the bid price for Reinforced Pile Tips.

For End Bent I and End Bent 5 steel piles,the required minimum pile tip elevation to achieve lateral stability and the estimated pile tip elevation to achieve the required axial capacity are provided in the following table:

$\mathbb{P}$	PILE TIP ELE	VATIONS
T I.D.	MINIMUM PILE TIP ELEVATION (ft-NAVD88)	ESTIMATED PILE TIP ELEVATION (ft-NAVD88)
Bent I	+567	+550
Bent 5	+564	+552

A pile hammer having a rated energy as indicated on this sheet is considered suitable for driven pile installation. However,final hammer approvalis based on a wave equation analysis that accurately reflects the Contractor's proposed driving system.

End Bent I and End Bent 5 piles shall be driven to a practical refusal condition. Practical refusal is defined as 5 blows per quarter inch or equivalent multiples thereof.

Each pile is to be installed in one continuous operation. Include details of any anticipated temporary driving discontinuities including anticipated time intervals in the Pile Installation Plan.

Reference the 2007 Standard Specifications for Highway Construction for Driven Pile Foundations,Section 711. Notes included in these plans are in addition to the requirements of the Standard Specifications.

# PILE RESISTANCE

Bent I.D.	END BENT 1	EN
Governing Limit State	Strength Axial	Sti
Factored Design Load	100.0 tons	
Geotechnical Resistance Factor	0.50	
Nominal Resistance	200.0 tons	/
Estimated Scour	0 tons	
Unfactored Downdrag	0 tons	
Required Driving Resistance	200.0 tons	/

Method of controlling installation of piles and verifying their cap Pile Installation will be controlled through wave equation analysis measurements during driving, and pile capacity will be verified by practical refusal condition.

# ESTIMATED PILE DRIVABIL ANALYSIS PARAMETERS

END BENT 1 OR	5, ONE PILE
Skin Quake (QS)	0.10 in
Toe Quake (QT)	0.04 in
Skin Damping (SD)	0.20 sec./ft.
Toe Damping (TD)	0.15 sec./ft.
Percent Skin Friction	20%
Distribution Shape No.	1.0 /
Bearing Graph	Constant Skin Frict
Pile Penetration	90%
Hammer Energy Range	40 - 50 ft-kips

¹Distribution Shape No.varies with depth: 0 at the ground surface and I.O at the pile tip elevation

² Bearing Graph Options - proportional, constant skin friction, and constant end bearing. Note: GRLWEAP (2010) was used to perform the wave equation analysis.

QUANTI	TIE	S
ITEM	UNIT	END BENT 1
Concrete for Structures,Class 4000	СҮ	66.4
Reinforcing Steel for Structures (Bridge)	LBS	11,186 *
Pile Driving Setup	ΕA	17
Reinf. Pile Tips (HPI4x89)	EA	17
Steel H Bearing Piling (HPI4x89)	LF	678

* Includes 168 Ibs for Anchor For Reinforcing Bending Deta For Anchor Bolt Details, see s

![](_page_22_Figure_19.jpeg)

Note: Provide 2" CIr.between the top of the seat and the JI30I and JI302 bars.

# SEAT DETAIL

Looking in direction of stationing for End Bent I Looking in opposite direction of stationing for End Bent 5

![](_page_22_Picture_23.jpeg)

![](_page_22_Picture_24.jpeg)

								BF	IDGE PLAN	S ID SHEET NO.		
									0041800-E	301 22		
		$\mathbb{R}$	EIN	FOR	CING	STI	EEL	SCH	EDU	LE		
END B	ENT 5				EN	JD BEN	IT 1					
Strengi	th Axial	MARK	NO. REQ'D	99 99 A	99 <b>5</b> 99	DIMEN	<b>√SION</b> "】"	99 99		LENGTH		
0. 10 0.	<u>50</u>	A/60/	8	43'-5"						43'-5"		
135.0	) tons	A1602 A1603	20	38'-10" 						<u> </u>		
0 1	tons	AI604	2	14'-2" 16'-0"						14'-2" 16'-0"		
<u> </u>	tons	A/606	12	16'-4"				<u> </u>		16'-4"		
eir capaci	ity:	B3201	10	45'-4"	/'-3"					46'-7"		
alysis wit fied by dr	thout stress riving to a	BJZUZ	10	40-0						4/ -1/		
		C1601 C1602	10 10	/'-8"  4'-2"	3'-2" 3'-2"					4'- 0"  7'-4"		
		F1601	20	3'-8"	2'-2"	2'-1 ¹ /8"	63/4"	<u> </u>	<u> </u>	5′- <u>10″</u>		
BILI	ΓY	FC1901	81	/′-8"	/-5"	105/8"	105/8"	8"	/′-6"	5′-3″		
	———————————————————————————————————————	.// 3()/	24	3′-8"	2'-()"			<u> </u>	<u> </u>	7′-8″		
in		JI302	32	2'-//"	2'-0"			<u> </u>	<u> </u>	6'-//"		
in		J1601	82	8"	7'-4"					15'-4"		
2./ft.			21	8"	8'-/"					7'- 0"		
/		<u> </u>	106	3′-//"	2'-7"	8"		<u> </u>	<u> </u>	4'-4"		
/		SB1601	34	3'-//"	2'-7"	8"		<u>                                      </u>	<u> </u>	/0′-5″		
riction		V1901	34	1'-10"				<u> </u>	<u> </u>	3'-8"		
t-kips		Anchor	18	//4"				<u> </u>		2'-01/2"		
		8011		Dia.	EN	JD BEN	JT 5			, _		
		MARK	NO.			DIMEN	VSION					
		A/60/	<b>REQ'D</b>	<b>39 37</b> <b>a</b> 43'-5"	»»Ъ»	³⁹ ⁹⁹ C	»»	e"	<u></u> ** <u>_</u>	43'-5"		
		A1602	20	38'-10"				<u>+</u>	<u>+</u>	38'-10"		
		A1603 A1604	2 2							<i>13-11</i> <i>11'-5"</i>		
		A/605 A/606	12 12	16'-1" 15'-9"				<u> </u>	<u> </u>	<u> </u>		
		R 3201	10	45'-4"	/ <u>/</u> ////////////			<u> </u>	<u> </u>	46'-7"		
	END DENTE 5	B3202	10	46'-8"	/'-3"			<u> </u>	<u> </u>	47'-11"		
<b>6.</b> 4	66.4	C1601	10	3'-  "	3'-2"					7'- "		
'86 <b>*</b> 17	//,/39 <b>*</b> //	C1602	10	//′-5″	3'-2"			<u>                                     </u>	<u>                                     </u>	4'-7"		
17	17	F 1601	20	3'-8"	2'-2"	2'-11/8"	63/4"			5'-10"		
rchor Bolt	550 t Assemblies	FC1901	81	/-8"	/'-5"	105/8"	105/8"	8"	/′-6″	5′-3″		
ng Details,	, see sh.6.	JI301	24	3'-8"	2'-0"			<u> </u>	<u>+</u>	7'-8"		
, see sn. 4.	•	JI302	32	2'-11"	2'-0"					6'-11"		
			82 26	8" 8"	7′-4" 8′-3 ¹ /2"					<u> </u>		
		51601	106	    ⊰′_//″	<i>2′-7</i> ″	<i>R</i> "		<u> </u>	<u> </u>	  //"		
			7.4					<u> </u>	+			
		SBIGUI	34	5′-11"	2'-1"	8"				10'-5"		
		V 1901	34	/'-/0"				<u> </u>	<u> </u>	3′-8"		
		Anchor		//"								
		Bolt	18	'74   Dia.						2'-0'/2"		
		REV.				Y	ORK (	COUNT	Y			
					PENNIES FOR PROGRESS							
CAROLIN	CAROLINE											
NV5 GINEERS Z	S PROFESS 101 T	REV.	I		END BENT DETAILS							
	변, No. 20591 등	REVIEW	ED WRA IKA	9–18	SC 557 -18 BRIDGE OVER CROWDERS CREEK							
FAUTHOR	- DocuSigned by	DR.	WBA LKA	9-18								
11111111111	L. Kevin austin	DES.	ZHB LKA	<u>9-18</u>	OUNTY			,	ROUTE			

DES. ZHB LKA 9-18 county YORK BY CHK. DATE

11/8/2022

C2465111037F480...

**route** SC 557

![](_page_23_Figure_1.jpeg)

	TABLE OF ELEVATIONS																		
	A B C D E F G H I J K L M N O P R S T											Т							
Bent 2	589.925	590.144	590.362	590.581	590.800	590.658	590.517	590.375	590.234	585.925	574.175	550.925	549.925	545.425	547.925	542.425	544.425	543.925	538.925

![](_page_23_Picture_6.jpeg)

![](_page_24_Figure_1.jpeg)

Æ	EVATIONS											
	H	Ι	J	K	L	М	Ν					
9/7	588.775	588.634	584.325	574.575	547.325	546.492	540.992					

![](_page_25_Figure_1.jpeg)

	TABLE OF ELEVATIONS																			
		A	B	С	D	E	$\mathbb{F}$	G	H	I	J	K	L	M	N	0	P	R	S	T
E	Bent 4	586.730	586.949	587.167	587.386	587.604	587.463	587.321	587.180	587.039	582.730	573.897	547.397	546.761	541.897	551.761	549.897	544.397	552.897	547.397

![](_page_25_Picture_7.jpeg)

b418004bt2.dgr

![](_page_26_Figure_1.jpeg)

	A36	601	A3E	502	A36	T A/90/									
	No.Req'd	Length	No.Req'd	Length	No.Req'd	Length	No.Req'd								
BENT 2	24	45′-7″	12	48′-7″	24	52'-1"	487								
BENT 3	60	48′-5″	-	-	-	-	485								
BENT 4	24	45′-//″	12	43′-5"	24	40′-5″	433								

			SH	AFT	/ COI	JUMN	LEI	NGTH	IS				
	SHAFT COLUMN												
		/	2	3	4	5	/	2	3	4	5		
BE	NT 2	28'-9"	28'-9"	3/'-9"	35′-3″	35′-3″	//′-9″	//′-9″	//'-9"	//′-9″	//′-9″		
BE	NT 3	33′-7″	33′-7"	33′-7"	33′-7"	33′-7"	9'-9"	9′-9″	9′-9″	9′-9″	9′-9″		
BE	NT 4	32'-0"	32'-0"	29'-6"	26'-6"	26'-6"	8'-10"	8'-10"	8'-10"	8'-10"	8'-10"		

DRILLED SHA	AFT RE	SISTAN	CE	
BENT ID	BENT 2	BENT 3	BENT 4	
Governing Limit State	Strength Axial	Strength Axial	Strength Axial	
Factored Design Load (tons)	577.5	577.5	462.5	
Factored Resistance - Side (tons)	0.0	0.0	0.0	
Factored Resistance - End (tons)	14,061	12,787	16,130	
Geotechnical Resistance Factor - Side	NZA	N/A	N/A	
Geotechnical Resistance Factor - End	0.5	0.5	0.5	
Total Nominal Resistance (tons)	28,122	25,574	32,260	

ROCK	K CORE TESTIN	COM G SU	IPRES JMMA	SIVE STI .RY TAB	REI BLE
BORING NO.	RECOVERY (%)	RQD (%)	CORE NUMBER	DEPTH [/] (FT)	CON ST
$D_{-}A$	86	75	NQ-1	24.5-26.8	
D-4	100	100	NQ-2	26.8-31.5	
DE	99	98	NQ-2	31.1-36.1	
6-5	97	87	NQ-3	36.1-41.1	
	32	29	NQ-1	26.4-30.9	
D-0	98	90	NQ-2	30.9-35.9	
<i>P</i> -7	100	100	NQ-2	30.3-35.3	
D-1	95	80	NQ-3	35.3-40.3	
	76	41	NQ-1	26.6-31.6	
B-8	88	74	NQ-2	31.6-36.6	
	90	53	NQ-4	41.6-46.6	
	86	40	NQ-1	20.9-25.9	
B-9	85	70	NQ-2	25.9-30.9	
B-10	98	98	NQ-1	19.3-21.1	

ENGTH E
OMPRESSIVE STRENGTH (PSI)
10,510
9,560
26,420
20,110
29,140
39,210
8,200
17,190
13,680
19,620
16,810
19,840
26,980
26,670

6-A/30/	
---------	--

) - UP									
	REV.				YORK COUNTY				
	REV.				PENNIES FOR PROGRESS				
CAROLINA SUTH CAROLINA	REV.				INTERIOR BENT DETAILS				
AND TANTS, INC. 20591	REVIEWED				SC 557				
00957	QUAN.				BRIDGE OVER CROWDERS CREEK				
	DR.	WBA	LKA	08/18					
1. Kevin austin	DES.	ZHB	LKA	08/18	COUNTY BOUTE				
C2465111037F480 11/8/2022		BY	CHK.	DATE	YORK SC 557				

					BRIDGE PLANS	S ID	SHEET NO.
					0041800-E	301	26
	REI	NF. S	STEE		SCHEI	).	
MARK	NO. REQ'D	99 99 AL	DIME: "Ъ"	NSION	99 <b>3</b> 99	LF	ENGTH
A/30/	12	26′-5″				2	26′-5″
A1601	16	41′0″					41'-0"
A2901	20	43'-3"					43′-3"
A3201	4	42'-10"				4	12'-10"
A3202U	3	44'-2"				2	14'-2"
A3203U	3	42'-2"				2	42'-2"
A3204U	3	34′-9″					34′-9″
A3205U	3	36′-9″					36′-9″
A360/	*	*					*
A3602	*	*					*
A3603	*	*					*
11301	16	31_6"	<i>Q</i> "				<u>//_/////</u>
JI302	73	3'-8"	<i>1′-6″</i>				4 -10 6′-8″
S1601	300	2'-6"	3′-8″	8"		/	3′-8″
SB1601	25	3′-8″	3′-8″	8"		/	2'-4"
T A1901	*	2'-10"					8′-8″
Anchor Bolt	36	/ ₄ " Dia.				2	o'-0 ¹ /2"

### QUANTITIES

ITEM	UNIT	BENT 2	BENT 3	BENT 4				
Concrete for Structures,Class 4000	CY	73.2	69.6	68.0				
Reinforcing Steel for Structures (Bridge)	LBS	27,372	27,256	25,599				
Hoop Reinforcing Steel for Structures (Bridge)	LBS	6339	63/3	5637				
Drilled Shaft Setup	ΕA	5	5	5				
Drilled Shaft with Wet & Dry Excavation - 48" Dia.	LF	132.3	140.4	//9.0				
Drilled Shaft with Rock Excavation - 42" Dia.	LF	27.5	27.5	27.5				
Construction Casing - 48" Dia.	LF	132.3	140.4	//9.0				
Crossbole Sonic Logaina, Setup	FA	.5	.5	5				

Note: Reinforcing Steel Quantity includes 236 Ibs for Anchor Bolt Assemblies. For Reinforcing Bending Details, see sh. 6.

Drilled Shaft Notes:

Support the top of casing to maintain construction tolerances during construction.

The wet method for drilled shaft construction is required. Use potable water or mineral slurry throuhout the excavation and construction of the shafts. Polymer slurry is not allowed. If mineral slurry is used, the tolerances for testing (including time intervals) and maintaining the mineral slurries are indicated in the Standard Specifications for Highway Construction, Section 712.

During drilled shaft construction,the bottom elevation of the shaft may vary,and rock may be encountered at a different elevation than shown on the plans.If rock is encountered at an elevation less than 2 feet higher than that shown, extend the socket to the tip elevation indicated on the plans. If rock is encountered at an elevation less than 2 feet lower that that shown, lower the tip elevation as needed to maintain the reguired minmum depth of rock penetration. If rock is encountered at an elevation more than 2 feet higher or lower than that shown, immediately notify the Geotechnical Engineer of Record.

Reference the Standard Specifications for Highway Construction for Drilled Shafts (Section 712) and for Crosshole Sonic Logging of Drilled Shafts (Section 727). Motes included in these plans are in addition to the requirements of the Standard Specifications.

![](_page_27_Figure_1.jpeg)

![](_page_28_Figure_1.jpeg)

![](_page_29_Figure_1.jpeg)

![](_page_30_Figure_1.jpeg)

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![](_page_31_Figure_1.jpeg)

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![](_page_32_Figure_1.jpeg)

		BRIDGE PLANS ID	SHEET NO.
		0041800-B01	32
	Notes:		
	Provide structural steel sections, plates, and plate washers the requirements of AASHTO M 270, Grade 50. Galvanize all components including connection P and P washers in accordance with AASHTO M galvanizing after fabrication is completed. Roughen faying surface connections by means of hand-wire brushing. Power-wire brushing	at conform to th s of diaphragms M 111. Perform aces of bolted is not permitte	ne ed.
Thick P	Make all bolted diaphragm connections with $7_8"$ or 1" ASTM F3125, (Type 1) bolts. Mechanically galvanize bolts, heavy hex nuts, he and direct tension indicators (DTI's) in accordance with ASTM B For the 1" bolt assemblies, galvanizing in accordance with AASH substituted for mechanical galvanizing.	Grade A325 ardened washers, 695 Class 50, TO M 232 may be	ì
	Submit shop plans for steel intermediate diaphragms in accordand Standard Specifications.	ce with the	
⊈ ¹⁵ ⁄ ₁₆ ″ Dia. Hole (Typ.)	After installation of steel diaphragms, repair all damaged area galvanized finish in accordance with ASTM A 780. Use paint metho finish on hardware.	s of the od to repair	
	Form bolt holes in prestressed concrete beams using 2" inside d leave pipe in place after forms are removed.	iameter pipe and	Ę
	Tension bolts through the beam web to be snug tight and then tur additional 1/4 turn. Peen threads on all bolts installed through web. Install all other bolts using a DTI and hardened washer with assembly to verify proper tensioning.	rn the bolts an n the beam th each bolt	
	Do not place deck slab until all intermediate diaphragms are pro and tightened in each span where deck concrete will be placed du	operly installed uring the pour.	Ę
	Leave steel intermediate diaphragms in place as a permanent par structure.	t of the comple-	ted
	Include all cost of furnishing and installing steel intermediate assemblies in the unit price bid for prestressed concrete beams	e diaphragm •	

	REV.	WBA O	ZHB 0418(	10-20 00	YORK COUNTY			
	REV.	PCW	HL	09-20	PENNIES FOR PROGRESS			
CAROLIN OFESSIO	REV.	AS HL	LEM	8-16	STEEL INTERMEDIATE			
NV5 NGINEERS Z S AND JLTANTS, INC.	REVIE	Galv. Class		lass	DIAPHRAGM DETAILS			
C00957	QUAN.	MRW	C A NI	10 11	BRIDGE OVER CROWDERS CREEK			
Der AUT DocuSigned by: EVIN AUS 1. Kerin Allestin 11/8/2022	DR. DES.	JDC	SAN	12-11	COUNTY ROUTE			
C2465111037F480		BY	CHK.	DATE	YORK SC 557			

![](_page_33_Figure_1.jpeg)

# SLAB POURING SEQUENCE

Note: The Contractor shall establish a minimum pouring rate of 45 CY per hour.

Pours 7 and 8 do not require a construction joint.

Before making subsequent pour,wait either a minimum of 96 hours after placement of initial pour or until the intial pour concrete has attained a minimum of 75% of the specified 28-day compressive strength as verified by testing extra cylinders.

Any deviation from pouring sequence will require approval by the RCE.

CONCRETE QUANTITIES							
POUR NO.	СҮ	POUR NO.	СҮ				
#/	136.2	#5	126.2				
#2	124.2	#6	115.1				
#3	126.2	#7	129.2				
#4	//5./	#8	/90.2				
		TOTAL	1062.4				

	QUANTITIES								
	ITEM	UNIT							
	2.0" Schedule 80 PVC Conduit	LF	1565.0						
**	Concrete for Structures, Class 4000	СҮ	1062.4						
*	Reinforcing Steel for Structures (Bridge)	LBS	249,793						
	Prestr. Conc. Beams (Type IV)	LF	3120						
	Conc.Bridge Railing (3'-6" Ht.)	LF	700.5						
	Elastomeric Bearings	ΕA	72						

*Includes 1362 Ibs for tie bar assemblies. **Includes 117.6 cy of concrete for sidewalk.

![](_page_33_Picture_14.jpeg)

								BRIDGE PLANS ID	NO.
								0041800-B01	33
	SUP	ERST	(RU	CTU	RE R	REINF	F. STEEL	SCHED	0
MARK	NO. REQ'D	99 99 &L	<u>م</u>	IMENSION [%] c [%]	⁹⁹ 🖉 ⁹⁹	99 99 e	LENGTH	LOCATIO	۶N
A/30/	182	28'-7"					28′-7″	Sidewalk	
NIGOL	1308	16'-6"					16'-6"	Slab	
AI602	1390	34'-8"					31'-8"	Slab	
A1002	130	34'-4"					34'-1"	Slab	
A1003 NI604	65	7'-  "					17'-11"	Slab	
A1007 NI605	672	51'-10"					51'-10"	Slab	
A1005 NI606	64	7'-3"					7′-3″	End Rent Dian	hraam
AI607	32	7'-7"					7′-7″	Find Bent Diap	hraam
AI608	96	8'-3"					8'3"	End Bent Diap	hraam
A/609	12	10'-0"					<u> </u>	Pedestrian H	Rail
A/6/0	1398	37'-2"					37'-2"	Slab	
ΛΙΘΩΙ	195	55'-0"					55'-0"	Slab	
A1301 1/902	124	32'-0"					32'-0"	Slab	
A1902 A1903	130	17'-7"						Slab	
AI303 AI904	192	7'-3"					7'-3"	Rent Diaphro	 10M
AI905	48	6'-9"					6'-9"	Rent Diaphro	<u>ישיי</u> זמש
A1905 A1906	140	53'-/"					53'-/"	Pedestrian P	 Rail
A/907	65	17'-9"						Slab	
A1908	62	47'-0"					47'-0"	Slab	
A2501*	24	2'-6"	 				2'-6"	Bent Diaphro	ıgm
A3201	84	5′-0″					5'-0"	Bent Diaphro	ıgm
BI60I	700	5′-6″	7"				6'-/"	Slab	
BAI301	468	6'-11/2"	71/2"				6'-9"	Sidewalk	
C1601	1456	3′-5″	10"				4'-3"	Pedestrian H	
C1602	468	2'-2"	10"				3'-0"	Sidewalk	
DBI30I	672	71/2"	3'-4"	8 ¹ /2"			4'-8"	Bent Diaphro	ıgm
FIGOL	140	I I ()"	/′_Q″	1-27/0"			$\mathcal{A}'-\mathcal{A}''$	Slab	
LIUUI	110	10		78			1 1		
E A1601	42	2′-6″	4'-7"	l'-7 ¹ /8"			//′-8″	Bent Diaphro	ıgm
F1601	12	4′-7″	2'-2"	2'-03/8"	9"		6'-9"	Bent Diaphro	ıgm
J1601	728	6"	3'-2"		 		6'-10"	Pedestrian H	Rail
1/1/01	100		41 71					Deet Dissbury	
K1601	168	10"	4'-3"	3'-4"			13'-6"	Beni Diaphro	igm
L1601	128	10"	4′-3"	6"	4'-3"		9'-10"	End Bent Diap.	hragm
R1601	128	l'-0"	4"	/′-6″	1'-03/4"		2'-10"	End Bent Diap.	hragm
			<u> </u>						
1/ " ~ :	T. C		<b>•</b> •				75/ 0"		
1'/4" DIa.	<i>i ie Bar</i>	No.,	Required	= 4			35'-8"	End Bent Diap	nragm
1'/4" DIa.	i ie Bar	No.,	<u>Required</u>	= 4			40'-0"	<u> </u>	hragm
				Daral				AS Necesso	<u>II У</u>
			I AIY I OP	DUIS)			<u> </u>	AS NECESSO	II Y
			і ню ТОР	DUI 57			$\angle 74$ $\square 1$ .	AS NECESSO	н у

* A250I Bars to have one threaded end.

	REV.				YORK COUNTY
	REV.				PENNIES FOR PROGRESS
CAROLINA NV5 IGINEERS Z	REV.				SUPERSTRUCTURE DETAILS & REINFORCING STEEL SCHEDULE
AND LTANTS, INC. 01 V C00957	REVIE	WED			SC 557
	QUAN. DR.	WBA	LKA	9-14	BRIDGE OVER CROWDERS CREEK
L. Kevin alustin 11/8/2022	DES.	ZHB	LKA	5-14	COUNTY ROUTE
C2465111037F480 11/8/2022		BY	CHK.	DATE	YORK SC 557

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![](_page_34_Figure_1.jpeg)

	BRIDGE PLANS ID	SHEET NO.
	0041800-B01	34
$\frac{100'-0"}{\frac{2}{2}} = \frac{50'-l^{9}/6"}{\frac{2}{2}}$		
<u> </u>		
32-7"     32-7"     23'-10/2"	EI = P5 = (qVT) (.	72'-0"
<u>SPAN D</u>		
Note: For details of Bearing Plate PI,P2,P3,P4 & P5 see sh.37.	95	
REV. YORK COUN	TY	
REV. PENNIES FOR PR	OGRESS	
AROLING NV5 NO AND CAROLING REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV. REV	LAN DERS CRE	EK
L. Kerin Ulitztim       DES.       ZHB       LKA       5/14       COUNTY         C2465111037F480       11/8/2022       BY       CHK.       DATE       YORK	<b>ROUTE</b> SC 557	

![](_page_35_Figure_1.jpeg)

						вқ	IDGE PLANS		NO.	
						(	)041800-B	01	35	
Beam		REI	NF. S	STEE		SC	CHED	)。		
Р	ва а го та	NO.			DIMEN	JSIO	N			
SSe	MARK	REQ'D	99 99 ell	»Ъ»	°°°	9	"J"	LE	NGTH	
L e	A1601	16	6'-9"					6	· -9 "	
est	JA1301	32	1'-4"	61/2"	11'	/	73/4"	4	′ –3 ″	
РГ	N1301	152	8 ″	4′-9″	1'-2	) // -		6	· -7 "	
SD	N1901	24	10″	4′-9″	1'-2	) // -		6	· -9 "	
Z	R1301	64	1'-6"	61/2"	1'-3	′2 ^{′′′}	11″	3	′ –4 ″	
f(	UA1901	8	8′-6″	6 "	7'-0	)″		1	5′-9″	
did										
. Р										
- Т										
ΠU										
ion (			QUA	ANT		E	5			
nat		ITEM					UNIT ONE BEAM			
ori	Concret	e, Class	9500		СҮ		20.	. 1		
Inf	Reinfor	cing Ste	eel		LB		144	17		
Z	Prestre	essing St	rands		LF		456	52		
FС	Structu	iral Stee	9		LB		As Necessary			

![](_page_36_Figure_1.jpeg)

END	$\mathbb{OF}$	BEAM

![](_page_37_Figure_1.jpeg)

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![](_page_38_Figure_1.jpeg)

TEST	TEST METHOD	REQUIREMENT
Elongation at Break	ASTM D 3575, Suffix T	180%
Tensile Strength	ASTM D 3575, Suffix T	110 psi
Tear Resistance	ASTM D 3575, Suffix G	14 pli
Density	ASTM D 3575, Suffix W - Method A	2.0 pcf to 3.4 pcf
Water Absorption	ASTM D 3575, Suffix L	< 0.03 psf
Compression Set	ASTM D 3575, Suffix B, 2 hour recovery	< 15%

### Seal Installation:

Have the manufacturer's representative present for the to insure proper installation. Follow the manufacturer procedures and the instructions below.

Begin seal installation at the low end of the joint. A both sides of the seal and joint. Ensure epoxy complet in the sides of the seal. With gloved hands, compress seal into the joint recessing the seal  $\frac{1}{4}$  below the to plate. If assistance is needed in installing the seal, push down on the seal. Do not push the seal at any ang the seal material. Once seal installation has begun on until the installation is completed. Clean the excess of the seal material quickly and thoroughly in accorde manufacturer's recommendations. Do not use solvents to excess epoxy. Excess epoxy remaining on the joint seal rejection of the joint.

Provide a watertight joint and seal. The joint will not RCE will observe the joint condition and performance u

![](_page_38_Figure_10.jpeg)

# DETAIL FOR SEAL TURN

- 1) Preheat the Teflon heating iron to 350° for minutes before welding the seal.
- 2) Using a sharp instrument such as a hacksaw, the shape shown in Section B-B. This shape no welding seal at other approved splice location
- 3) Place the ends of seal to be welded against iron at 350°F. Hold for a minimum of 10 secor 20 seconds, depending on the ambient temperat place these ends together tightly and hold for check the welded seal until the material has
- 4) If the edges do not seal completely, use a th hacksaw blade to transfer heat into the edge the heated blade between the edges of the mat 5 seconds, then remove and press the edge too for 10 to 20 seconds. Keep the blade on the Teflon cover between each use. 3,₈″₽-

![](_page_38_Figure_16.jpeg)

# FIELD WELD DET

Provide adhesive that complies in the Table below.

TEST	test me
Tensile Strength	ASTM D
Compressive Strength	ASTM D
Shore D Hardness	ASTM D
Water Absorption	ASTM D
Bond Strength	ASTM C

![](_page_38_Picture_20.jpeg)

e first installation	Notes:	0041800-B01	38
Apply mixed epoxy to tely fills the grooves the seal and install op of the steel use a blunt probe to	Provide seal having a normal uncompressed width of $2^{3}$ /4in Set the nominal joint width, "W" to 2" at 70°F. Use the air temperature, measured in the shade and averaged over preceding 24 hour period, as the setting temperature. A construction, decrease the joint opening by $1/8$ " for each the setting temperature is above 70°F or increase the jo by $1/8$ " for each 10°F that the setting temperature is bel	nches. actual r the t the time of n 10°F that oint opening ow 70°F.	
a joint, do not stop epoxy from the surface ance with the seal clean or remove I may be cause for	Ensure three copies of certifications are signed by an of the manufacturer or supplier and submitted to the RCI installation of the seal. The required certifications at the manufacturer's test reports, or a statement by the accompanied by the test results, certifying that the ma been sampled, tested and inspected. Failure to provide certifications for seals and lubricant/adhesive is group of the materials.	authorized agent E prior to the re a copy of supplier terials have the required nds for rejectic	D
until tinal inspection.	Mark all seals with die markings that indicate the lot manufacturer. Mark each container of lubricant/adhesive manufacturer, lot number, and shelf life expiration date	number and with the e.	
	Provide preformed seals that are compatible with steel resistant to abrasion, oxidation, oils, gasoline, salt, materials that may be spilled on or applied to the surf material that is resistant to weathering and ultra-viol a seal having a working range of 30% tension and 60% co Manufacture the seal from a low-density closed cell, cr vinyl acetate polyethylene copolymer nitrogen blown material	and concrete and and other ace. Provide sec et rays. Provide ompression. oss-linked ethyl erial.	I I ene
<u>approximately</u> 30	Manufacture seals with grooves along the bond surface re of the joint. The grooves shall be $\frac{1}{8}$ wide by $\frac{1}{8}$ deep $\frac{1}{4}$ and $\frac{1}{2}$ apart. Provide seals with a minimum depth at uncompressed width and meeting the manufacturer's record Design the seal so that, when compressed, the center point does not extend upward above the original height of the $\frac{1}{4}$ .	unning the lengt and spaced betw least 70% of t mmendations. rtion of the top seal by more th	h veen he nan
cut the seal to form ot necessary for ons.	Shop mark the seal to indicate the top side of the seal to be clearly visible upon installation.	in such a way c	IS
the Teflon heating nds but no more than	Install seals in accordance with the manufacturer's ins stipulated otherwise in these plans or the Special Prov	tructions unless isions.	
or 20 seconds. Do not completely cooled.	Provide a watertight seal along the entire length inclusion of the seal.	ding the ends	
hin blade, such as a to be sealed. Hold terial approximately gether quickly and hold heating iron under the	Adhesives: Provide a two component, 100% solid, modified epoxy adh requirements of ASTM C 881, Type I, Grade 2, Class B & with testing requirements shown on this sheet.	esive meeting th C and in accorc	ie Iance
	Provide adhesive that is workable to 40°F. For installe below 40°F or for application on moist, hard to dry com- provide adhesive as specified by the manufacturer of the	ation temperatur crete surfaces, e joint material	es •
	Joint Preparation:		
	Clean the armored joint opening in accordance with the recommendations. Bond the seal to the cleaned surface of the cleaning is done.	manufacturer's n the same day	
	Provide steel armor plates that conform to the requirem AASHTO M 270, Grade 50W (ASTM A 709, Gr. 50W) and are o	ents of the late f weldable quali	est ty.
<u>rail</u>	Provide ${}^{3}{}_{8}{}''$ plates that conform to the crown of the finithave smooth edges. Fabricate the ${}^{3}{}_{8}{}''$ plates in reasonable connect them at the job site using partial penetration welds at the exposed surfaces of plates flush. Perform prior to bonding seals. If necessary to bolt the ${}^{3}{}_{8}{}''$ plates in center in of the plates.	shed roadway and e lengths and groove welds. Gr welding of splic ites to the form the lower porti	d ind ces s, on
	Provide $\frac{1}{2}$ " Dia. headed studs that meet the requirements the Standard Specifications. Electrically weld all stude	s of Section 709 s.	of
with the requirements	Field bend top slab reinforcing as required to clear and	chor studs.	
ETHOD       REQUIREMENT         638       3500 psi Min.         695       7000 psi Min.         2240       75 Min.         570       0.25% by Weight	For payment purposes, measure along the centerline of the edge of slab to the edge of slab. Include all costs assi- furnishing labor, materials, fabrication, and installat cover plates, and elastomeric seals complete and in pla- price bid per linear foot of Compression Seal Joint.	ne joint from th ociated with ion of armor plo ce in the unit	ne ites,
882 430 psi Min.			
	REV. WBA LKA 7-19 YORK COUN	VTY	
	REV. GAR JXY 2-16 PENNIES FOR PI	ROGRESS	
CAROLINA NV5 NGINEERS AND JILTANTS, INC.	BMH     SAN     7-14     COMPRESSION       REV.     Notes     EXPANSION     JOIN'       REVIEWED     SC     557	SEAL T DETAILS	
DF AUT HO DocuSigned by TE VINI AUS	QUAN. DR. PNP SAN 11-08 BRIDGE OVER CROW	VDERS CRE	EK
1. Kevin allestim	DES.	POUTE	

BY CHK. DATE

county YORK

11/8/2022

C2465111037F480...

	<b>route</b> SC 557
DRAWI	NG NO. 702-33

DRAWING NU. 102-33

SHEET NO.

BRIDGE PLANS ID

![](_page_39_Figure_1.jpeg)

![](_page_40_Figure_1.jpeg)

![](_page_41_Figure_1.jpeg)

![](_page_41_Figure_2.jpeg)

See sh.39 for location of 1" Dia.Holes for the Thrie Beam Guardrail Connection

# LEFT SIDE ELEVATION

(Right Side Elevation for End Approach Slab)

![](_page_41_Figure_6.jpeg)

# RIGHT SIDE ELEVATION

(Left Side Elevation for End Approach Slab)

![](_page_41_Figure_9.jpeg)

END ELEVATION

![](_page_41_Picture_11.jpeg)

N V I

SC License # 957 formerly CALYX EngIneers & Consultants

3"		REI	NF. (	STEE	L SC	CHE	$\mathbb{D}$ .			
	MADE	NO.		DIME	NSION	1	– LENGTH			
		REQ'D	81 81	»»Ъ»	** ** C	»»d»				
μ Joint	A/30/		20'-4"				20'-4"			
];	A/302	/	20'-3"				20'-3"			
1:	A/303		20'-1"				20'-/"			
	A/304	/	/9′-/0″				. 19'-10"			
	A/305	/	8'-  "				- 18'-11"			
	A/306	/	/9′-0″				/9′-0″			
•	AI 307	/	19'-2"				/9′-2″			
	A/308	/	/9′-5″				19′-5″			
	A/309	8	19'-7"				19'-7"			
	A/60/	84	4/'-//"				4/'-//"			
	A/90/	8	8'-  "				- 18'-11"			
	A/902	2	15'-7"							
	A/903	2	13'-5"				/3'-5"			
	A/904	8	20'-4"				20'-4"			
	A/905	2	17'-0"				17'-0"			
	A/906	2	4'- 0"				- 14'-0"			
	A2201	2	20'-4"				20'-4"			
3"	A2202	/	20'-3"				20'-3"			
	A2203	/	20'-2"				20'-2"			
	A2204	/	/9′-//"				- 19'-11"			
a Inint	A2205	2	/8′-//"							
	A2206	/	19'-0"				/9′-0″			
•	A2207	/	/9′-/″							
50/ <b></b>	A2208	/	/9′-4″				/9'-4"			
	A2209	73	19'-7"				/9′-7″			
	A2901	2	20'-4"				20'-4"			
<b>H</b> _] ;	A2902	/	20'-3"				20'-3"			
	A2903	/	20'-2"				20'-2"			
	A2904	/	20'-0"				20'-0"			
	A2905	/	/9'-//"				/9′-//″			
	A2906	/	/9'-9"				/9′-9″			
<b>_</b>	A2907	2	8'-  "				/8'-//"			
•	A2908	/	/9'-0"				/9′-0″			
	A2909	/	19'-1"				- 19'-1"			
	A2910	/	/9′-3″				/9′-3″			
	A29//	/	/9′-4″				- 19'-4"			
	A2912	/	/9′-6″				/9′-6″			
	A2913	145	19'-7"							
	BAISUI	26	b' - l'/2"	/'/2"			6'-9"			
	BAI302	4	<u>   4'-6'/2"</u>	('/2"			5'-2"			
		70		10"			71.00			
	<u>C1601</u>	50	2'-2"	10"			5'-0"			
	<u> </u>	162	<u>   3'-9"</u>	10"			4'-/"			
			-							
	J1601	53	6"	5'-2"			6'-10"			
	J1602	12	6"	2'-10"			6'-2"			
	J1603	16	6"	2'-5"			5′-4″			
		_								
	<u> </u>	2	2'-4"	8"			5′-/″			
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REVIEWED

WBA ZHB 8/14

QUAN.

DR.

ي No. 20591 الم

BRIDGE OVER CROWDERS CREEK

SC 557

**route** SC 557

SHEET NO. BRIDGE PLANS ID 0041800-B01 41

![](_page_42_Figure_0.jpeg)

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Fed Road Dist. No.	State	County	Docket. No.	Route No.	Sheet No.	Total Sheets
3	S.C.	YORK	46.4IB	557	43	

# FLARED CURB& GUTTER AT ENDS OF BRIDGE

i wally

ROUTE NO.557 DATE JULY 1956.

81

![](_page_44_Picture_0.jpeg)

![](_page_45_Figure_0.jpeg)

![](_page_46_Figure_0.jpeg)

and the second of

FOR INFORM 1-6" Safety Curb Outline of existing 260.4 Creos. Timber & Struct. Steel Bridge. N.84°-07'E. 5 Const. Joint Exp. Joint Const. Joint 2. 1-6" Sofety Curb Posts and Handrai Brid Sta. Z 6 Spans @ 32'=0==192'-0" 31'9"---32'-0" 32'-0" -32'-0' 100 8 Bent a 258+9 -00------S KO G 5- F.G. Elev. 106.94 0.00% CE F 11 H.W. El. 105.0 (From Road Plans) Dated 6-22-38 715 f.t. Rt & Riprop 15ft.Lt.E Toe of Fill Sto.259+45 Mixture of J Battere Int & Bent ·_____ Mixture orSand 9-1 & Clay 5 (6)- Alixture of Sand &
 Bot. of Boring
 Decomposed Rock
 Boring 15ft. Right
 This bridge supersectes a 201 ft. of E-Bordway. SMixture of Sand Boring E Decomposed Rock. Boring 15ft Right of E Road way. Bot. of NOTES (Contd) Construct flored curb and gutter at both ends of b roadway Construct concrete block slope drains on L at end of bridge. +90 +50 +80 259 +10 +20 +30 +40 +60 +70 +50 . +60 +70 PLATE 1-PLAN-PROFILE O. P. R. & R. E. STANDARD KEUFFEL & ESSER CO., NEW YORK

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![](_page_47_Figure_0.jpeg)

Charles Ni Contractor 244 3-30-45.

![](_page_47_Picture_3.jpeg)

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(1) Add 4 D-bars Bent No.7 (Wt.=9#)

THIS SHEET TO ACCOMPANY C-26-30-1942.

S.C. STATE HIGHWAY DEPARTMENT COLUMBIA, S.C. END BENT- 30 FT. SPAN' CROWDERS CREEK S.C. DOCKET NO. 46.418 ROUTE 557 0. 46. 418 YORK COUNTY JULY 19.56 SCALE 21NCH-1FT.

END BENT C-26-30-1943

![](_page_48_Figure_0.jpeg)

![](_page_49_Figure_0.jpeg)

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