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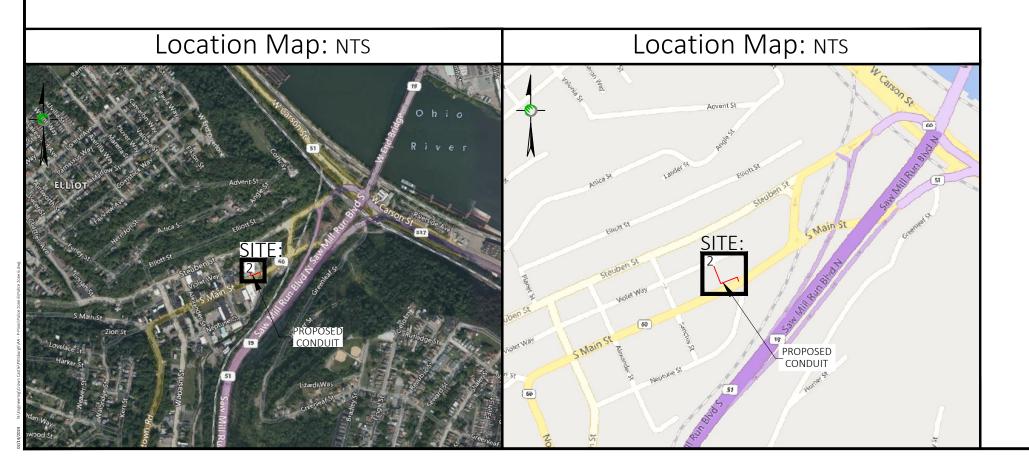
SHEET INDEX

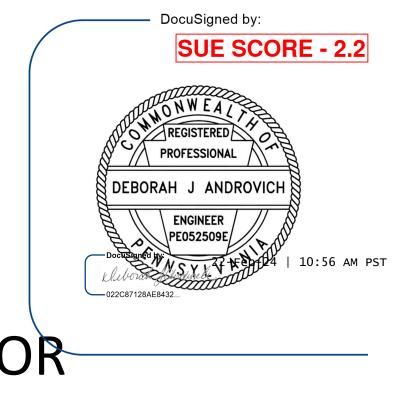
SHEET #	DESCRIPTION
1	COVER SHEET
2	PETITION PLAN
3	AERIAL VIEW
4	ТМР
5	ТМР



UNDERGROUND PETITION PLAN FOR POLICE ZONE 6 PITTSBURGH, PA 15220

RATE CA	RD	
	UNITS	QUANTITY
I-4" HDPE	FT	279'
MULE TAPE	FT	279'





PREPARED BY:



501 Holiday Drive Pittsburgh, PA 15220 www.piketelecom.com 412-688-3555

GENERAL NOTES

1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN

APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO

EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. 2. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT

3. THE CONTRACTOR SHOULD MAINTAIN A SEPARATION OF 18 INCHES MIN. WHEN CROSSING EXISTING WATER FACILITIES.

4. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANY.

5. THE CONTRACTOR SHALL NOT DISTURB PUBLIC TREES AND SHRUBS.

6. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT NO EXPENSE TO THE OWNER.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING AND MAINTAINING TEMPORARY RESURFACING AND/OR PLATING FOR ALL EXCAVATIONS IN PAVED STREETS AND SIDEWALKS UNTIL PERMANENT RESURFACING IS COMPLETE.

8. JOINTS BETWEEN NEW BITUMINOUS CONCRETE ROADWAY PAVEMENT AND SAW CUT EXISTING PAVEMENT SHALL BE SEALED WITH BITUMEN AND BACK SANDED.

9. THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITY LINES THAT BECOME EXPOSED DUE TO EXCAVATION REQUIRED TO INSTALL THE PROPOSED CONDUIT.

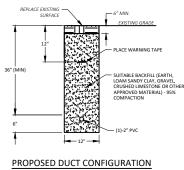
10. THE CONTRACTOR SHALL REPLACE ALL DISTURBED TRAFFIC SIGNAL LOOP DETECTORS TO GOOD WORKING CONDITION AS REQUIRED BY THE LATEST STANDARDS OF THE MUNICIPAL TRAFFIC DEPARTMENT.

11. ALL EXISTING STATE, COUNTY, CITY, AND TOWN LOCATION LINES AND PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND THEIR EXACT LOCATION ARE NOT GUARANTEED.

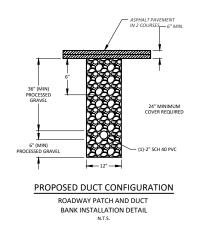
12. THE CONTRACTOR SHALL REPLACE ALL PAVEMENT MARKINGS IN THEIR ENTIRETY THAT HAVE BEEN DAMAGED BY TRENCH EXCAVATION OR OPERATIONS OF THE CONTRACTOR WITH SIMILAR COLOR AND SIZE THERMOPHASTIC MARKINGS.

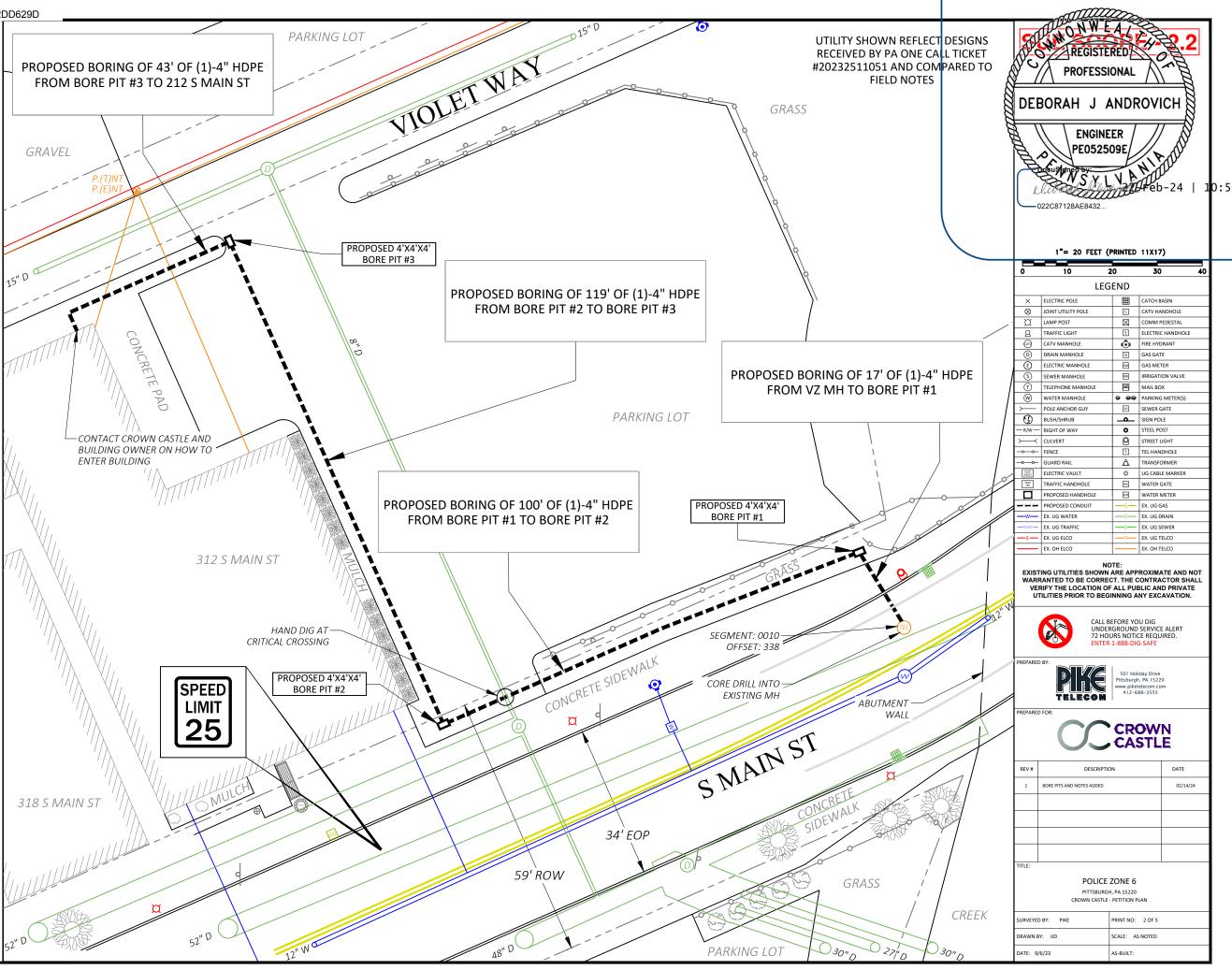
★- ITEM SHOWN ON UTILITY RECORDS, BUT NOT FOUND IN FIELD.

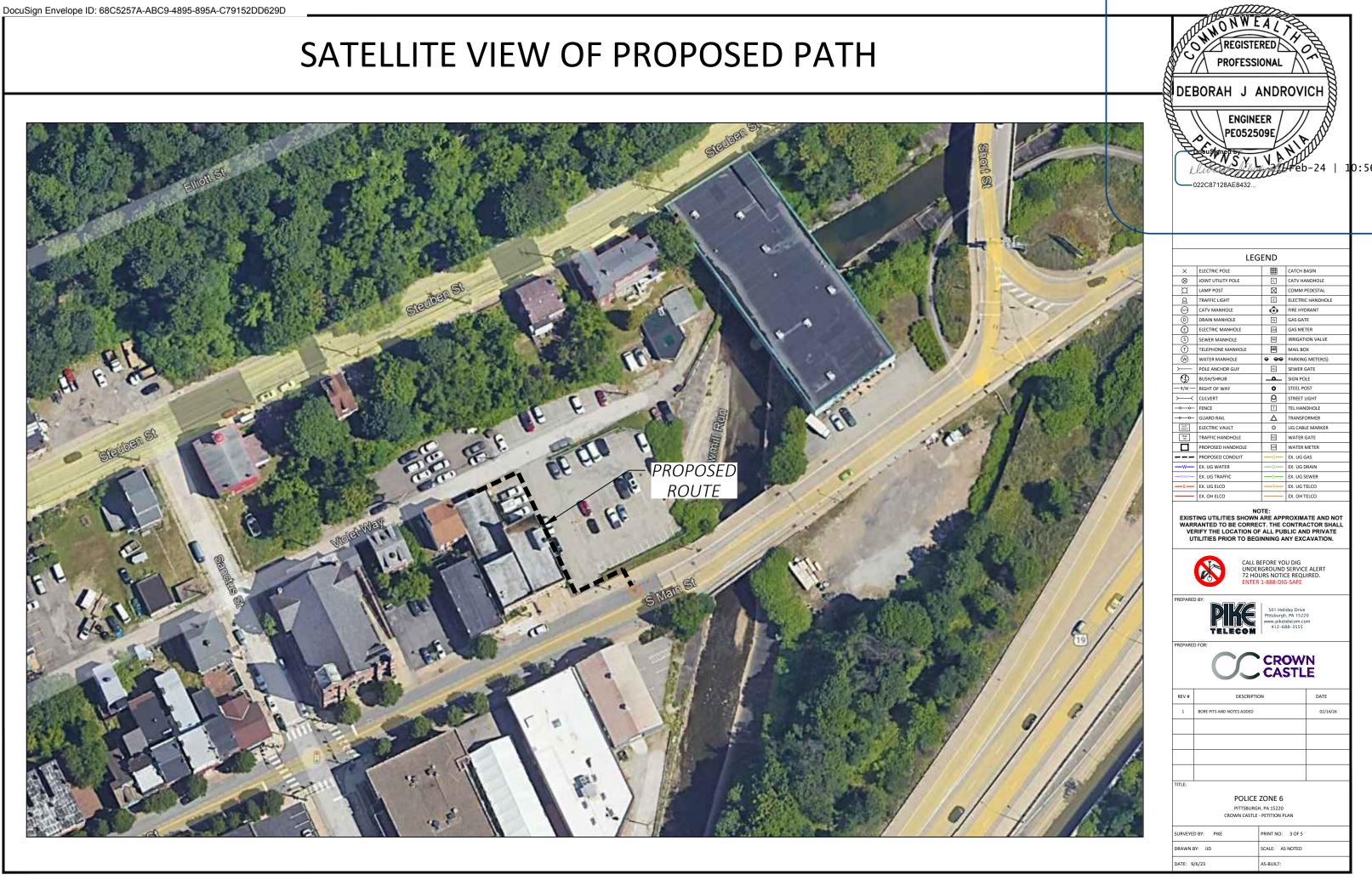
∼ - ITEM FOUND IN FIELD, BUT NOT SHOWN ON UTILITY RECORDS



SOFT SHOULDER PATCH AND DUCT BANK INSTALLATION DETAIL N.T.S.







TRAFFIC MANEGEMENT PLANS

PATA 107 (Old PATA 10a) - Notes

1. Each flagger shall be clearly visible to traffic for a minimum distance of E and shall be in constant communication with all other flaggers.

2. For operations of 15 minutes or less:

a. The Road Work (W20-1), One Lane Road (W20-4), and Flagger Symbol (W20-7) signs are not required.

b. All channelizing devices may be eliminated if a shadow vehicle is present.

3. The buffer space shall be extended so that the two-way traffic taper is placed before a horizontal (or crest vertical) curve to provide adequate sight distance for the flagger and a queue of stopped vehicles.

4. When a shadow vehicle is not used, distance E is measured from end of taper to beginning of work space.



Sign Spacing Chart

Distance and Spacing Quick Reference Chart

	Distance					
Condition	Α	В	С	F		
	Feet	Feet	Feet	Feet		
Urban 35 MPH or less	100	100	100	100		
Urban Greater than 35 MPH	350	350	350	350		
Rural	500	500	500	500		

When multiple distance plaques are used on advance warning signs, they shall all be of the same series type.

Example: either all "AHEAD" or XXX FEET.

Taper Length Formulas

S	L
40 MPH or less	$L = \frac{WS^2}{60}$
45 MPH or more	L = WS

S = Regulatory Speed Limit W = Width of Offset

L = Length

_												
	Speed	W	L	1/2L	1/3L		Min. Channelizing Devices Per Taper Type (Length)			D	E	н
t	MPH	Feet	Feet	Feet	Feet	L	1/2L	1/3L	50'	Feet	Feet	Feet
		10	105	55	35							
נ	25	11	115	60	40	6	6	6	6	50	155	150
		12	125	65	45	1						
		10	150	75	50	6						
כ	30	11	165	85	55	7	6	6	6	60	200	150
		12	180	90	60	7						
		10	205	105	70	7						
כ	35	11	225	115	75	8	6	6	6	70	250	150
		12	245	125	85	8						
		10	270	135	90	8						
	40	11	295	150	100	9	6	6	6	80	305	150
		12	320	160	110	9						
		10	450	225	150	11	6					
	45	11	495	250	165	12	7	6	6	90	360	150
		12	540	270	180	13	7					
		10	500	250	170	11	6					
	50	11	550	275	185	12	7	6	6	100	425	250
		12	600	300	200	13	7					
		10	550	275	185	11	6					
	55	11	605	305	205	12	7	6	6	110	495	250
		12	660	330	220	13	7					

 12
 660
 330
 220
 13
 7
 1
 1
 1

 Note: Channelizing devices used in taper shall be equally spaced at ½ D Max.

÷ \oplus 50' D Max. 🚽 Optional, but is r if Note 2 applies. See Note 50 25' 40 \oplus

PATA 107 (Old PATA 10a) Work In One Lane; Two Flaggers

	 	a point		
	8€	PROFESS	IONAL	ROVICH
	Allow K	ENGINE PE0525	09F/	Heb-24 10
		LEG	SEND	
	×	ELECTRIC POLE	I	CATCH BASIN
	\otimes	JOINT UTILITY POLE	C	CATV HANDHOLE
	<u> </u>	LAMP POST		COMM PEDESTAL
	8	TRAFFIC LIGHT	E	ELECTRIC HANDHOLE
		CATV MANHOLE	Ô	FIRE HYDRANT
		DRAIN MANHOLE	G	GAS GATE
	E	ELECTRIC MANHOLE	GM	GAS METER
	(5) (T)	SEWER MANHOLE TELEPHONE MANHOLE	IRR MB	IRRIGATION VALVE MAIL BOX
		WATER MANHOLE		PARKING METER(S)
		POLE ANCHOR GUY	56	SEWER GATE
	Ð	BUSH/SHRUB		SIGN POLE
	- R/W -	RIGHT OF WAY	0	STEEL POST
	>	CULVERT	8	STREET LIGHT
	-00	FENCE	T	TEL HANDHOLE
	-oo	GUARD RAIL		TRANSFORMER
	ELEC VAULT	ELECTRIC VAULT	0	UG CABLE MARKER
	TRAF HH	TRAFFIC HANDHOLE	WG	WATER GATE
		PROPOSED HANDHOLE	~	WATER METER
		PROPOSED CONDUIT	—G—	EX. UG GAS
	—w—	EX. UG WATER	—D—	EX. UG DRAIN
	-TRAFF-	EX. UG TRAFFIC	—s—	EX. UG SEWER
		EX. UG ELCO	—-T—	EX. UG TELCO
uired	-E-	EX. OH ELCO		EX. OH TELCO
uired	EXIST WARF VEI	EX. OH ELCO NIG UTILITIES SHOWN RANTED TO BE CORRE RIFY THE LOCATION O	CT. THE C	ROXIMATE AND NOT CONTRACTOR SHALL BLIC AND PRIVATE
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TRAFFIC MANEGEMENT PLANS

PATA 101-A

PATA 101-A

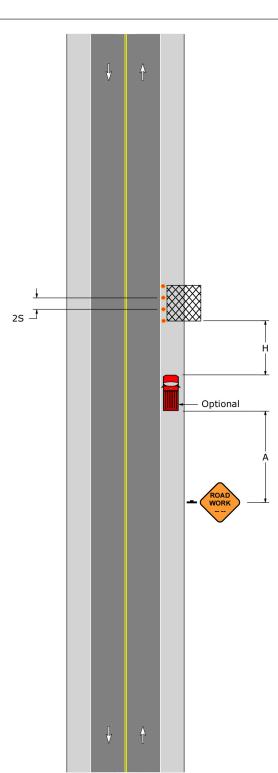
1. The shadow vehicle and TTC devices are not required if the work space is outside the highway right-of-way, behind barrier, more than 2' behind curb, or 15' or more from the edge of the roadway.

2. For operations of 60 minutes or less, all TTC devices may be eliminated if a shadow vehicle is present and the operation does not proceed against normal traffic flow.

3. When a shadow vehicle is not used, distance A is measured from the ROAD WORK sign.



s	ign Spacing, Chan	nelizing Device Sp	acing, and Roll Al	nead Space	
Encod	Channelizing	Sign S	pacing	Roll Ahead Space	
Speed	Devices Spacing	Urban	Rural		
S (MPH)	2S (Feet)	A (Feet)	A (Feet)	H (Feet)	
25	50	100 - 200	500 - 800	150	
30	60	100 - 200	500 - 800	150	
35	70	100 - 200	500 - 800	150	
40	80	350 - 500	500 - 800	150	
45	90	350 - 500	500 - 800	150	
50	100	350 - 500	500 - 800	250	
55	110	350 - 500	500 - 800	250	





Subsurface Utility Engineering (SUE) Utility Rating Impact Form

Project Name: _____ 312 S Main st Project Location: ____ Pittsburgh, PA

Date of Analysis:9/22/2023Analysis Done By:Justin Malardie

Project Scope: _____ Proposed Boring of 279' of HDPE from VZ MH to the rear of 312 S Main St

ID	Complexity Factor		Low Complexity		Medium Complexity		High Complexity
1	Utility Density	~	Dense		Denser		Densest
2	Utility Type		Less-Critical		Sub-Critical	\checkmark	Critical
3	Utility Pattern - Parallel Utilities	~	Simple		Medium		Complex
4	Utility Pattern - Perpendicular Utilities	7	Simple		Medium		Complex
5	Utility Material		Rigid		Flexible	\	Brittle
6	Utility Access		Easy	7	Medium		Restricted
7	Utility Age		New		Medium	Image: A start of the start	Old
8	Utility Record Quality		Good	<	Fair		Poor
9	Excavation Depth (inches)		Low		Medium	Image: A start of the start	High
10	Excavation Method		Method A		Method B	7	Method C
	Total	3		2		5	

SUE Impact Score 2.2
