

RECOMMENDED

5/17/18 DISTRICT ENGINEER ASSISTANT DIRECTOR, STATEWIDE SUPPORT SERVICES DIRECTOR, MAINTENANCE AND OPERATIONS

THE STATE OF DELAWARE DEPARTMENT OF TRANSPORTATION



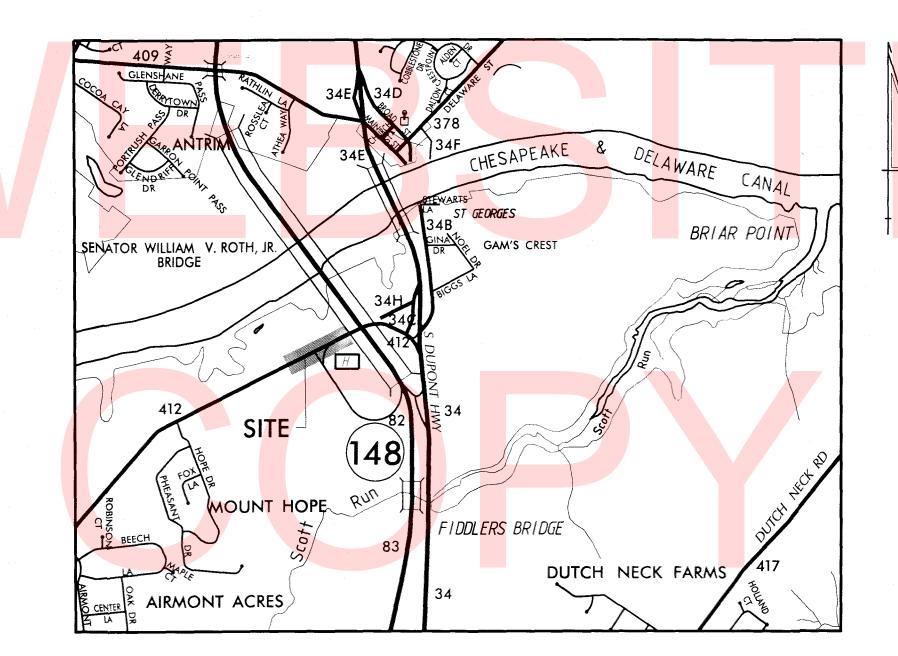
CONSTRUCTION PLANS FOR:

ST. GEORGES MAINTENANCE YARD ENTRANCE IMPROVEMENTS

CONTRACT NUMBER: T201780102 FEDERAL AID PROJECT NUMBER:

COUNTY: NEW CASTLE

M.R. #: N412



LOCATION MAP

SCALE: N. T. S.

U.S. CUSTOMARY UNITS

FUNCTIONAL CLASS: MAJOR COLLECTOR		D.H.V. PROJECTED: 2,650	YEAR:	2030
TYPE OF CONSTRUCTION: ROADWA	Y WIDENING	DESIGN SPEED: 55 M.P.H.	<u></u>	
A.A.D.T. CURRENT: 13,660 YEAR: 2016		TRUCKS: 6.5 %		
A.A.D.T. PROJECTED: 22,450	YEAR: 2030	DIRECTION OF DISTRIBUTION: 90 2	<u> </u>	

	INDEX OF SHEETS
SHEET Nº	TABLE OF CONTENTS
1	TITLE SHEET
2	PLAN SHEET INDEX
3	LEGEND
4	NOTES
5-6	TYPICAL SECTIONS
7-8	HORIZONTAL AND VERTICAL CONTROL SHEETS
9-10	CONSTRUCTION PLANS
11-12	PROFILES
13-14	GRADES AND GEOMETRICS
15	CONSTRUCTION DETAILS
16-20	CONSTRUCTION PHASING, MOT AND EROSION CONTROL PLANS
21	UTILITY NOTES
22-28	SANITARY SEWER FORCE MAIN PLANS
29-34	WATER MAIN PLANS
35-37	SIGNING AND, STRIPING AND CONDUIT PLANS
38-40	RIGHT-OF-WAY PLANS

ROVED	DESIGN	EXCEPTIONS	
TOTAL	SHEETS: 40		

DESIGN PARAMETER	REQUIRED PROVIDED		DATE	

ADDENDA & REVISIONS

DESCRIPTION

SEAL

NAME & DATE

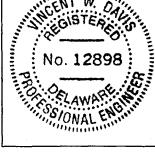
ASSOCIATED CONTRACTS CONTRACT NAME

CONTRACT NO. ST. GEORGES MAINTENANCE YARD IMPROVEMENTS T201680104 83-110-02 SR 1 SOUTH OF ST. GEORGES TO DRAGON RUN 89-110-05 SR 1 SOUTH OF ST. GEORGES TO TYBOUTS 92-110-07 SR 1 SOUTH OF SCOTT RUN TO SOUTH OF ROAD 412

RECOMMENDED AS TO PROCESS

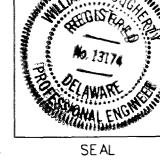
RECOMMENDED

DATE 21 MAY 2018



JOHNSON, MIRMIRAN & THOMPSON Engineering A Brighter Future® 121 Continental Drive, Suite 300 Newark, DE 19713



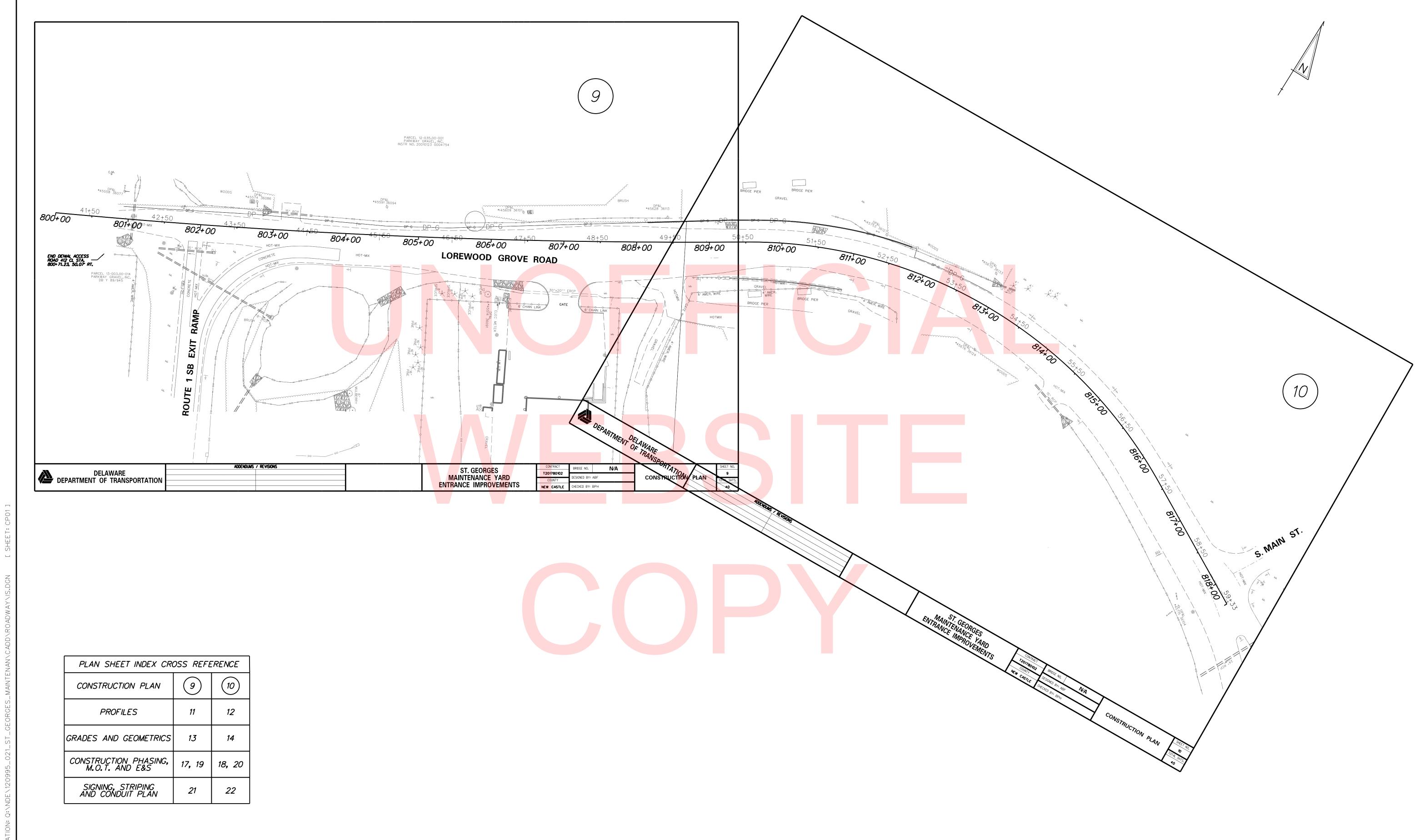






DATE

BECOMMENDED



FILE LOCATION

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE

O 60 120 180

FEET

ST. GEORGES
MAINTENANCE YARD
ENTRANCE IMPROVEMENTS

CONTRACT
BRIDGE NO.

T201780102

COUNTY

DESIGNED BY: ABF

CHECKED BY: BPH

PLAN SHEET INDEX

TOTAL SHTS.

EXISTING	SYMBOL	S
	SURVEY CO	ONTROL & MONUMENTATION
CENTERLINE	B.M.	SURVEY BENCHMARK LOCATION
1 FLOW ARROW	T.P.	SURVEY TIE POINT LOCATION
	Δ	SURVEY TRAVERSE POINT
BOX	0	POINT OF CURVATURE OR TANGENCY
	0	POINT OF INTERSECTING TANGENTS
FLOW ARROW		

UTILITY

	SOIL BORING LOCATION
•	UTILITY TEST HOLE LOCATION
ſV	CABLE TV DISTRIBUTION BOX
E	ELECTRIC MANHOLE
EM	ELECTRIC METER
E	ELECTRIC TRANSFORMER
<u> </u>	POLE MOUNTED LUMINAIRE
G	GAS MANHOLE
G.M.	GAS METER
G.V.	GAS VALVE
G.P.	GAS PUMP - SERVICE STATION
	RAILROAD TRACKS
S	SANITARY SEWER MANHOLE
S.V.	SANITARY SEWER VALVE
VENT	SANITARY SEWER VENT OR CLEANOUT
[S.D.F]	SEPTIC DRAIN FIELD
В	TELEPHONE BOOTH
Ū	TELEPHONE MANHOLE
T	TELEPHONE TEST POINT
J.W.	TRAFFIC - CONDUIT JUNCTION WELL
(0)	TRAFFIC - LIGHT POLE AND BASE
	TRAFFIC - PEDESTRIAN POLE & BASE
(SOO)	TRAFFIC - SIGNAL CABINET & BASE
⊗	TRAFFIC - SIGNAL POLE AND BASE
U	UTILITY BOX
⋄→	UTILITY POLE GUY WIRE ANCHOR
Ø	UTILITY POLE
F.H.	WATER - FIRE HYDRANT
W.M.	WATER METER
w.v.	WATER VALVE
WELL	WELL HEAD
?	MANHOLE - UNDETERMINED OWNER

UTILITY COMPANY FACILITIES

AT&T - FIBER OPTIC

ARTESIAN WATER COMPANY

COMCAST CABLE - FIBER OPTIC

DELDOT MULTIDUCT CONDUIT

| DELMARVA POWER - ELECTRIC

ADDENDUMS / REVISIONS

DELDOT SIGNAL CONDUIT

DELMARVA POWER - GAS

VERIZON - FIBER OPTIC

VERIZON

----AW-W-----

——ATT-FO——

— COM-FO —

— EX-CON —

— EX-SIG —

—— DP-E ——

——DP-G——

— VER-C —

— VER-FO —

NC			
N. (O.) (
NCY TS			R
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			R
			•
NOUT			
-			
BASE			
SE			
SE			
7			
1	1		

PROPOSED SYMBOLS

CONSTRUCTION

×——BFS——× BIOFILTRATION SWALE

CONCRETE SAFETY BARRIER - PERMANENT

	RIGHT-OF-WAY SYMBOLS
o	PROPOSED RIGHT-OF-WAY MONUMENT
DA	PROPOSED DENIAL OF ACCESS
PE	PROPOSED PERMANENT EASEMENT
	PROPOSED RIGHT-OF-WAY
— R/W-DA —	PROPOSED R/W & DENIAL OF ACCESS
——— TCE ———	TEMPORARY CONSTRUCTION EASEMENT
100+00	PROPOSED RIGHT-OF-WAY BASELINE
——— DA ———	EXISTING DENIAL OF ACCESS
	EXISTING R/W & DENIAL OF ACCESS

UTILITY		
	POLE MOUNTED LUMINAIRE	
s.v.	SANITARY SEWER VALVE	
VENT	SANITARY SEWER VENT OR CLEANOUT	
F.H.	WATER - FIRE HYDRANT	
w _e M.	WATER METER	
w _o v.	WATER VALVE	

	BRICK PATTERNED SURFACE
	BUTT JOINT
100+00	CONSTRUCTION BASELINE
CSF	CONSTRUCTION SAFETY FENCE
	CURB, TYPE 1 & TYPE 3
	CURB, TYPE 2
	CURB & GUTTER, TYPE 1
	CURB & GUTTER, TYPE 2
	CURB & GUTTER, TYPE 3
	CURB & GUTTER, TYPE 4
CZ	CLEAR ZONE
	DRAINAGE INLET
×——×	DITCH
0-0-0	FENCE - METAL
• • •	FENCE - WOOD
— / /	FLARED END SECTION
	GUARDRAIL, TYPE 1
_ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^	GUARDRAIL, TYPE 2
<u> </u>	GUARDRAIL, TYPE 3
Cn h h	GUARDRAIL END ANCHORAGE
<u> </u>	GUARDRAIL END TREATMENT, TYPE 1
	GUARDRAIL END TREATMENT, TYPE 2
	GUARDRAIL END TREATMENT, TYPE 3
	IMPACT ATTENUATOR
•	JUNCTION BOX - DRAINAGE
LO	LATERAL OFFSET
LOC	LIMIT OF CONSTRUCTION
<i>MB</i> ■	MAILBOX
•	MANHOLE
	PAVEMENT PATCH
	PAVEMENT REMOVAL - TOPSOIL, SEED AND MULCH
	PIPE & DIRECTIONAL FLOW ARROW
000000000000000000000000000000000000000	RIPRAP
	P.C.C. SIDEWALK - 4"
	P.C.C. SIDEWALK - 6" (USE 8" DEPTH FOR CHANNELIZATION ISLANDS.)
·	UNDERDRAIN
©	UNDERDRAIN CLEANOUT
	LINDEDDDAIN, OUTLET

TRAFFIC		
ITMS CONDUIT		
SIGNAL CONDUIT		
CONDUIT JUNCTION WELL		
LUMINAIRE		
PAVEMENT MARKINGS		
PAVEMENT STRIPING		
TRAFFIC SIGN		

UNDERDRAIN OUTLET

PAVEMENT SECTION(S)		
	OVERLAY PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS	
	RECONSTRUCTED PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS	
	DRIVEWAY, MUP AND ENTRANCE PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS	

IDENTIFIERS					
(A)	ADJUST BY CONTRACTOR				
(A)	ADJUST BY OTHERS				
(AB) C	ABANDON BY CONTRACTOR				
8	CONCRETE SAFETY BARRIER				
©	CURB OR CURB & GUTTER				
	CONVERT TO JUNCTION BOX				
CMH	CONVERT TO DRAINAGE MANHOLE				
(C)	CURB OPENING				
(CR)	CURB RAMP / TYPE				
(CR-N)	CURB RAMP / TYPE - WITHOUT SIDEWALK SURFACE DETECTABLE WARNING SYSTEM				
(SP)	CONSTRUCTION SAFETY FENCE				
(D)	DRAINAGE INLET				
(DND)	DO NOT DISTURB				
(ED)	ENERGY DISSIPATOR				
F	FENCE				
(ES)	FLARED END SECTION				
(FF)	FILL WITH FLOWABLE FILL				
FS	FILTRATION STRUCTURE				
(CR)	GUARDRAIL				
(JB)	JUNCTION BOX				
(MP)	MANHOLE				
M	MONUMENT - RIGHT-OF-WAY				
P	PIPE				
(RL) C	RELOCATE BY CONTRACTOR				
(RL O	RELOCATE BY OTHERS				
(RM) C	REMOVE BY CONTRACTOR				
(RM)	REMOVE BY OTHERS				
(RR)	RIPRAP				
<u></u>	UNDERDRAIN / LENGTH				
<u> </u>	UNDERDRAIN OUTLET PIPE				
<u>w</u>	UNDERDRAIN CLEANOUT				
(RM) TC	REMOVE BY TRAFFIC CONTRACTOR				
_					

LANDSCAPING			
	LANDSCAPE PLANTINGS		
€	SHRUBBERY		
\otimes	CONIFEROUS TREE		
\odot	DECIDUOUS TREE		
·			

DELAWARE DEPARTMENT OF TRANSPORTATION

EASEMENT TYPE — EXISTING EASEMENT

ST. GEORGES MAINTENANCE YARD **ENTRANCE IMPROVEMENTS**

CONTRACT	BRIDGE NO.	N/A	
T201780102	BRIDGE NO.		
COUNTY	DESIGNED BY:	ABF	
NEW CASTLE	CHECKED BY:	ВРН	

OTAL SHTS

NOT TO SCALE

LEGEND

40

GENERAL NOTES

- 1. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", DATED AUGUST 2016 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD CONSTRUCTION DETAILS", DATED 2014, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT.
- 2. ELECTRONIC PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE AWARDED CONTRACTOR, INCLUDE:

()	NONE
(X)	ASCII DATA FILES WITH COORDINATES AND ELEVATIONS FOR PROPOSED POINTS AS SELECTED BY THE ENGINEER.
(X)	ALL PLAN SHEETS, IN PDF FORMAT.
(X)	EXISTING DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
(X)	PROPOSED DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
(X)	DESIGN FILE, IN .DGN FILE FORMAT, CONTAINING ONLY THE PROPOSED 3D TRIANGLES OF THE PROPOSED DIGITAL TERRAIN MODEL (DTM).

NOTE: THE DOCUMENT ENTITLED "RELEASE FOR DELIVERY OF DOCUMENTS IN ELECTRONIC FORM TO A CONTRACTOR" MUST BE SIGNED BY ALL PARTIES PRIOR TO THE DELIVERY OF ANY ELECTRONIC PROJECT FILES.

3. PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE CONTRACTOR, INCLUDE:

(X)	CROSS SECTIONS
(X)	RIGHT-OF-WAY PLANS (WILL BE MADE AVAILABLE TO THE AWARDED CONTRACTOR)

PROJECT NOTES

SECTION 100

- 1. ANY DAMAGE TO ITEMS NOTED TO BE RELOCATED OR RESET BY THE CONTRACTOR, AT THE DISCRETION OF THE ENGINEER, SHALL BE REPAIRED AND/OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
- 2. THE CONTRACTOR WILL CONTACT THE DELAWARE TMC AT 302-659-4600 PRIOR TO ANY UNMANNED AIRCRAFT VEHICLE (UAV) FLIGHTS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THE FOLLOWING INFORMATION: THE REGISTRATION NUMBER OF THE UAV, THE FLIGHT TIME, LOCATION OF THE FLIGHT, THE PILOT'S NAME AND THE PILOT'S CONTACT NUMBER DURING THE FLIGHT.

SECTION 300

- 3. A. THE CONTRACTOR MAY ELECT TO USE ANY OF THE FOLLOWING MATERIALS TO MEET THE REQUIREMENTS OF ITEM 301001 GRADED AGGREGATE BASE COURSE. TYPE 'B':
 - a. CRUSHED STONE (PER STANDARD SPECIFICATION 1005)
 - b. CRUSHED CONCRETE (PER STANDARD SPECIFICATION 1005)
 - c. HOT-MIX MILLINGS (PER SPECIAL PROVISION 301500 MILLED HOT-MIX BASE COURSE)

THE CONTRACTOR WILL NOT BE ALLOWED TO MIX DIFFERENT MATERIALS (OR SIMILAR MATERIALS FROM DIFFERENT SOURCES) TO MEET THE REQUIREMENTS OF ITEM 301001 - GRADED AGGREGATE BASE COURSE, TYPE 'B'.

ALL OF THE ABOVE LISTED MATERIALS ARE PERMITTED FOR USE ON THE JOB, PROVIDED THEY ARE SEPARATED INTO APPROVED AREAS. EACH AREA OF BASE COURSE MUST BE CONSTRUCTED USING MATERIALS FROM A SINGULAR SOURCE, FULL DEPTH, IN ORDER THAT PROPER TESTING MAY BE ACCOMPLISHED. THE CONTRACTOR AND DELDOT'S PROJECT ENGINEER SHALL AGREE ON THE LIMITS OF EACH SOURCE OF MATERIAL PRIOR TO PLACEMENT. HOT-MIX MILLINGS SHALL ONLY BE USED IN AREAS APPROVED BY THE ENGINEER LARGE ENOUGH TO ACCOMMODATE THE COMPACTION METHOD REQUIRED BY SPECIAL PROVISION 301500 UTILIZING A SHEEPSFOOT ROLLER (MINIMAL 50 TON STATIC ROLLER).

- B. THE QUANTITY USED FOR BASE OF EACH OF THE ABOVE LISTED MATERIALS WILL BE THE CONTRACTOR'S CHOICE, WITH THE TOTAL MEETING THE ADVERTISED QUANTITY OF ITEM 301001 GRADED AGGREGATE BASE COURSE, TYPE 'B'.
- C. THE CONTRACTOR MAY ALSO ELECT TO RECYCLE MILLINGS FOR USE IN HOT-MIX AS PERMITTED BY THE STANDARD SPECIFICATIONS. THE CHOICE OF THE QUANTITY OF MILLINGS USED FOR THIS PURPOSE, OR FOR BASE COURSE, LIES WITH THE CONTRACTOR. ALL MILLING MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR.
- D. HOT-MIX MILLINGS MAY BE GENERATED FROM THE FOLLOWING SOURCES:

 a. MATERIAL MADE AVAILABLE WHEN MILLED ON THIS CONTRACT UNDER THE MILLING ITEM UTILIZED ON THE CONTRACT.
 - b. MATERIAL MILLED ON THIS CONTRACT AT THE CONTRACTOR'S CHOICE UNDER ITEM 202000. c. MILLED MATERIAL FURNISHED ON THE JOB FROM THE CONTRACTOR'S YARD OR OTHER

OUTSIDE SOURCE.
ALL MILLED MATERIALS SHALL MEET THE MATERIAL REQUIREMENTS OF ITEM 301500 - MILLED HOT-MIX BASE COURSE.

- E. PAYMENT CLARIFICATION:
 - a. SHOULD THE CONTRACTOR ELECT TO MILL PORTIONS OF HOT-MIX SHOWN ON THE PLANS TO BE REMOVED UNDER ITEM 202000 EXCAVATION AND EMBANKMENT THE COST OF MILLING THIS HOT-MIX WILL BE PAID AS ITEM 202000 EXCAVATION AND EMBANKMENT. THE MILLINGS GENERATED MAY BE RECYCLED INTO HOT-MIX, UTILIZED FOR BASE COURSE, OR DISPOSED OF TO AN APPROVED SITE. HAULING COSTS FOR DISPOSAL AND/OR RECYCLING ARE INCIDENTAL TO ITEM 202000 EXCAVATION AND EMBANKMENT.
 - b. MILLINGS GENERATED UNDER THE MILLING ITEM UTILIZED FOR THE CONTRACT MAY BE RECYCLED INTO HOT-MIX, UTILIZED FOR BASE COURSE OR DISPOSED OF BY THE CONTRACTOR TO AN APPROVED SITE. NO SEPARATE PAYMENT WILL BE MADE FOR TRANSPORTING MILLINGS ON SITE OR TO AN APPROVED DISPOSAL SITE.
 - C. SHOULD THE CONTRACTOR ELECT TO TEMPORARILY STOCKPILE MILLINGS ON THE JOB SITE FOR LATER USE, ALL COSTS FOR STOCKPILING AND SUBSEQUENT REHANDLING SHALL BE INCIDENTAL TO ITEM 202000 EXCAVATION AND EMBANKMENT.
 - I. MILLINGS USED FOR BASE COURSE SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF SPECIAL PROVISION 301500 MILLED HOT-MIX BASE COURSE. NO SEPARATE PAYMENT WILL BE MADE TO FURNISH MILLINGS FROM AN OUTSIDE SOURCE OR TRANSPORT MILLINGS WITHIN THE PROJECT LIMITS. MILLINGS USED FOR BASE COURSE WILL BE PAID IN PLACE AT THE UNIT BID PRICE FOR ITEM 301001 GRADED AGGREGATE BASE COURSE, TYPE 'B'.
 - e. ALL COSTS TO UTILIZE MILLINGS IN RECYCLED HOT-MIX WILL BE INCIDENTAL TO THE UNIT PRICE BID FOR THE HOT-MIX ITEM USING THE RECYCLED MATERIAL.
 - SPECIAL PROVISION 301500 MILLED HOT-MIX BASE COURSE IS PROVIDED TO SPECIFY THE MEANS OF LAY DOWN AND COMPACTION AS WELL AS THE MATERIAL REQUIREMENTS FOR MILLINGS USED AS BASE COURSE. ALL COSTS TO BRING THE MILLINGS INTO COMPLIANCE WITH THE REQUIREMENTS OF 301500 MILLED HOT-MIX BASE COURSE ARE INCIDENTAL TO ITEM 301001 GRADED AGGREGATE BASE COURSE, TYPE 'B'. NO PAYMENT WILL BE MADE FOR ITEM 301500 MILLED HOT-MIX BASE COURSE. THE QUANTITY OF MILLINGS USED FOR BASE COURSE WILL BE PAID FOR UNDER ITEM 301001 GRADED AGGREGATE BASE COURSE.

SECTION 400

4. THE PAVEMENT SECTION FOR FLEXIBLE PAVEMENT RESIDENTIAL DRIVEWAYS SHALL BE 2" BITUMINOUS CONCRETE, TYPE 'C' OVER 8" GRADED AGGREGATE BASE COURSE, TYPE 'B', UNLESS OTHERWISE NOTED ON THE PLANS

SECTION 600

5. STATION AND ELEVATION DATA GIVEN FOR DRAINAGE STRUCTURES ARE TO BE APPLIED TO THE CENTER OF THE GRATE FOR INLETS AND TO THE CENTER OF THE STRUCTURE FOR JUNCTION BOXES AND MANHOLES.

SECTION 700

ADDENDUMS / REVISIONS

6. ALL PAVED AREAS TO BE RECONSTRUCTED OR WIDENED SHALL BE SAWCUT AT THE POINT WHERE THE NEW PAVEMENT IS TO TIE INTO THE EXISTING PAVEMENT.

SECTION 900

7. THIS PROJECT IS COVERED UNDER AN NPDES GENERAL PERMIT FOR CONSTRUCTION. UNDER THE GENERAL PERMIT, COMPLIANCE WITH DELDOT'S APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLANS WILL CONSTITUTE COMPLIANCE WITH THE NPDES INDUSTRIAL PERMITTING REQUIREMENTS FOR THIS CONSTRUCTION PROJECT. A COPY OF THE NPDES GENERAL PERMIT AND NOIS KEPT ON FILE IN EACH OF THE CONSTRUCTION OFFICES AND THE DEPARTMENT'S STORMWATER SECTION. A COPY OF THE GENERAL PERMIT OR THE NOICAN BE OBTAINED UPON REQUEST FROM EITHER THE DEPARTMENT'S STORMWATER ENGINEER OR THE APPROPRIATE CONSTRUCTION ENGINEER.

MISCELLANEOUS

- 8. THE CONTRACTOR SHALL CONTACT THE CHIEF OF SCHEDULING FOR DART FIRST STATE, 14 DAYS PRIOR TO THE START OF CONSTRUCTION AT 302-576-6191, OR BY EMAIL NOTIFICATION TO DOT_DETOURS@STATE.DE.US
- 9. REFER TO THE CONSTRUCTION PLAN SHEETS FOR THE LOCATION OF THE CLEAR ZONE AREA LIMITS.
- 10. THE CONTRACTOR MUST COMPLETE ALL SANITARY SEWER AND WATER MAIN CONSTRUCTION BY NOVEMBER 21,2018

PLOTTED BY: BDOUGHERTY DATE: 5/18/2018

PLOTTE LOCATION: Q:\NDE\120995_021_ST_GEORGES_MAINTENAN\CA

DELAWARE
DEPARTMENT OF TRANSPORTATION

NOT TO SCALE

ST. GEORGES
MAINTENANCE YARD
ENTRANCE IMPROVEMENTS

CONTRACT
BRIDGE NO.

T201780102
COUNTY

DESIGNED BY: ABF

CHECKED BY: BPH

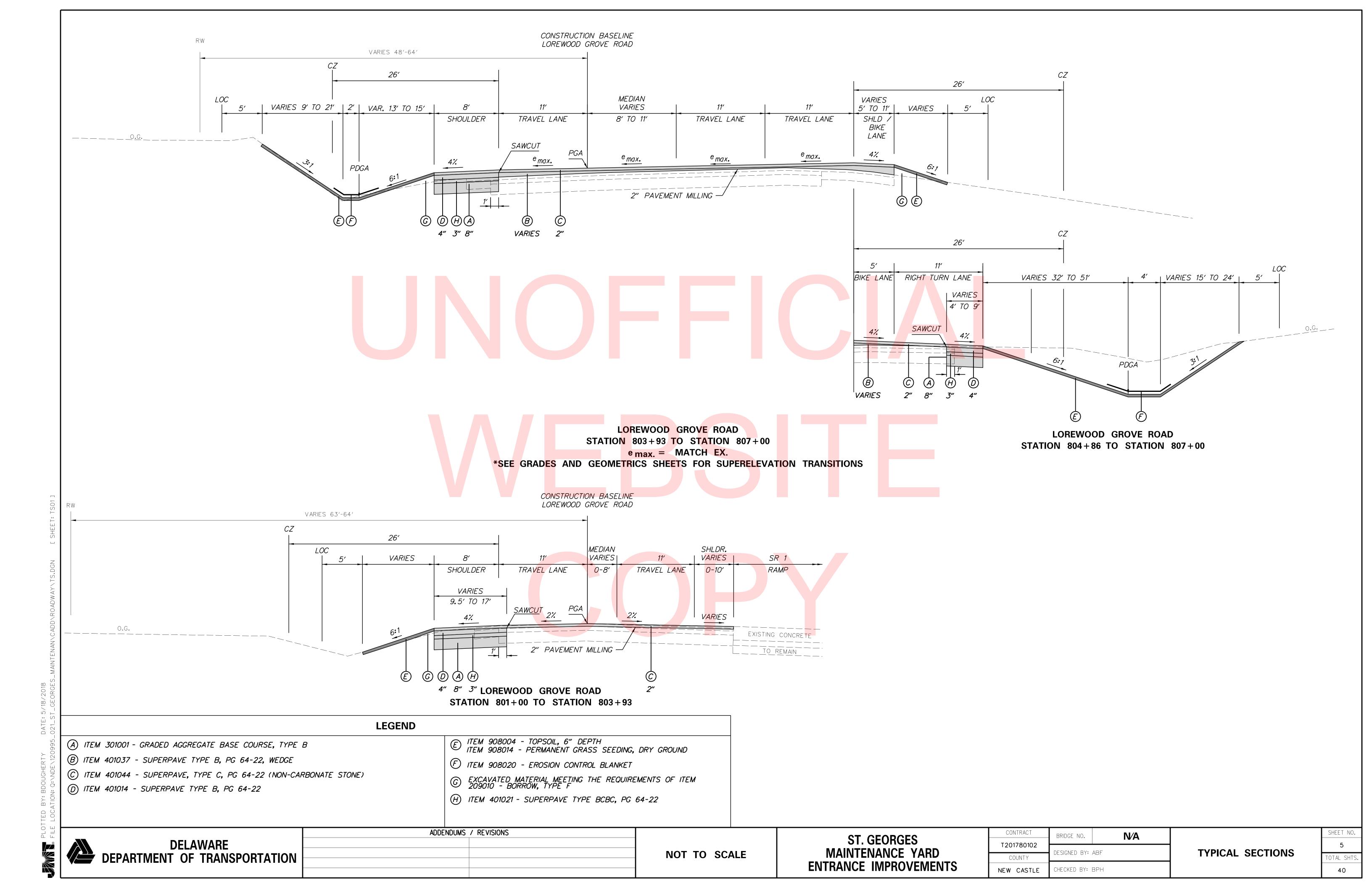
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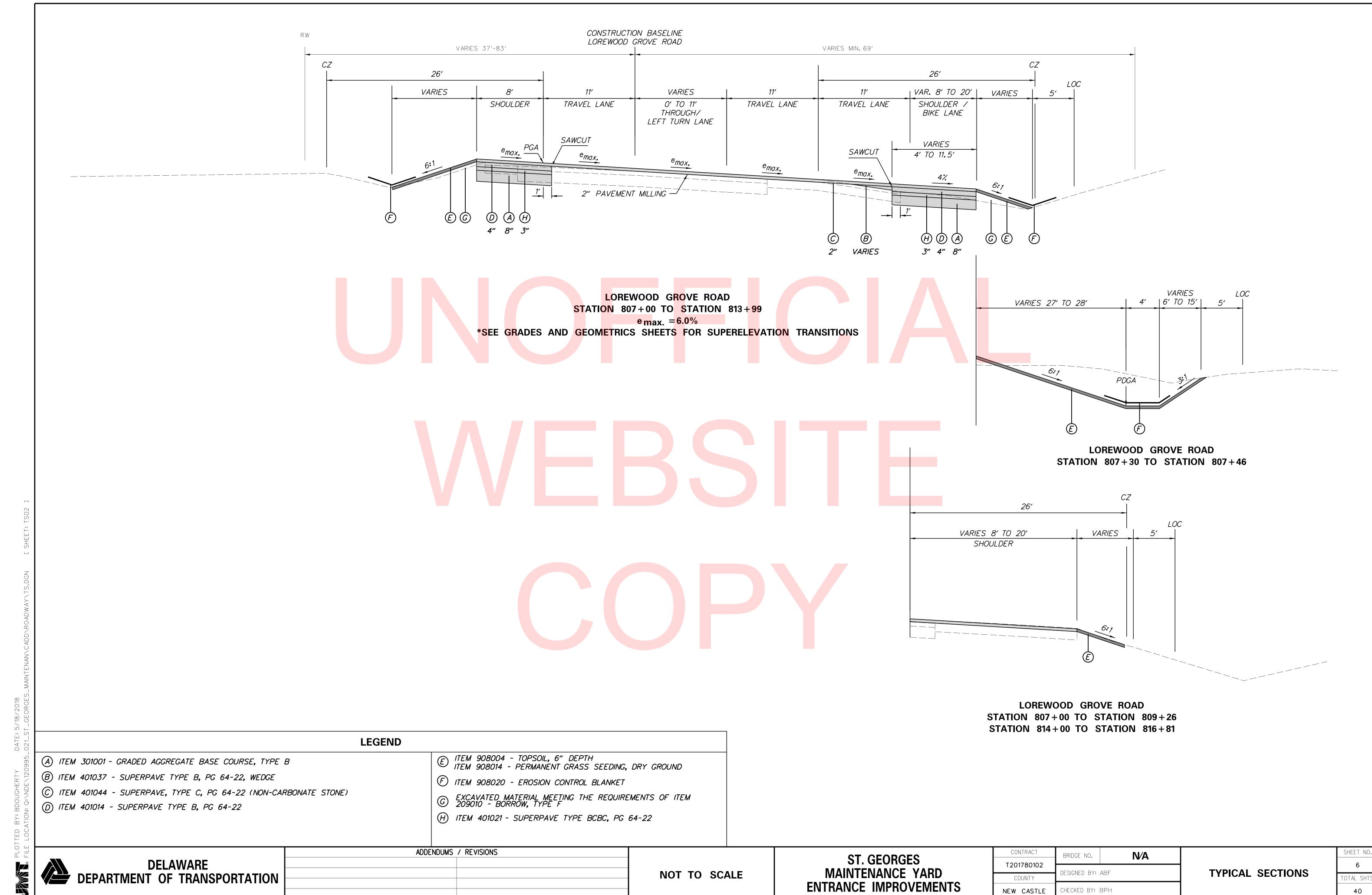
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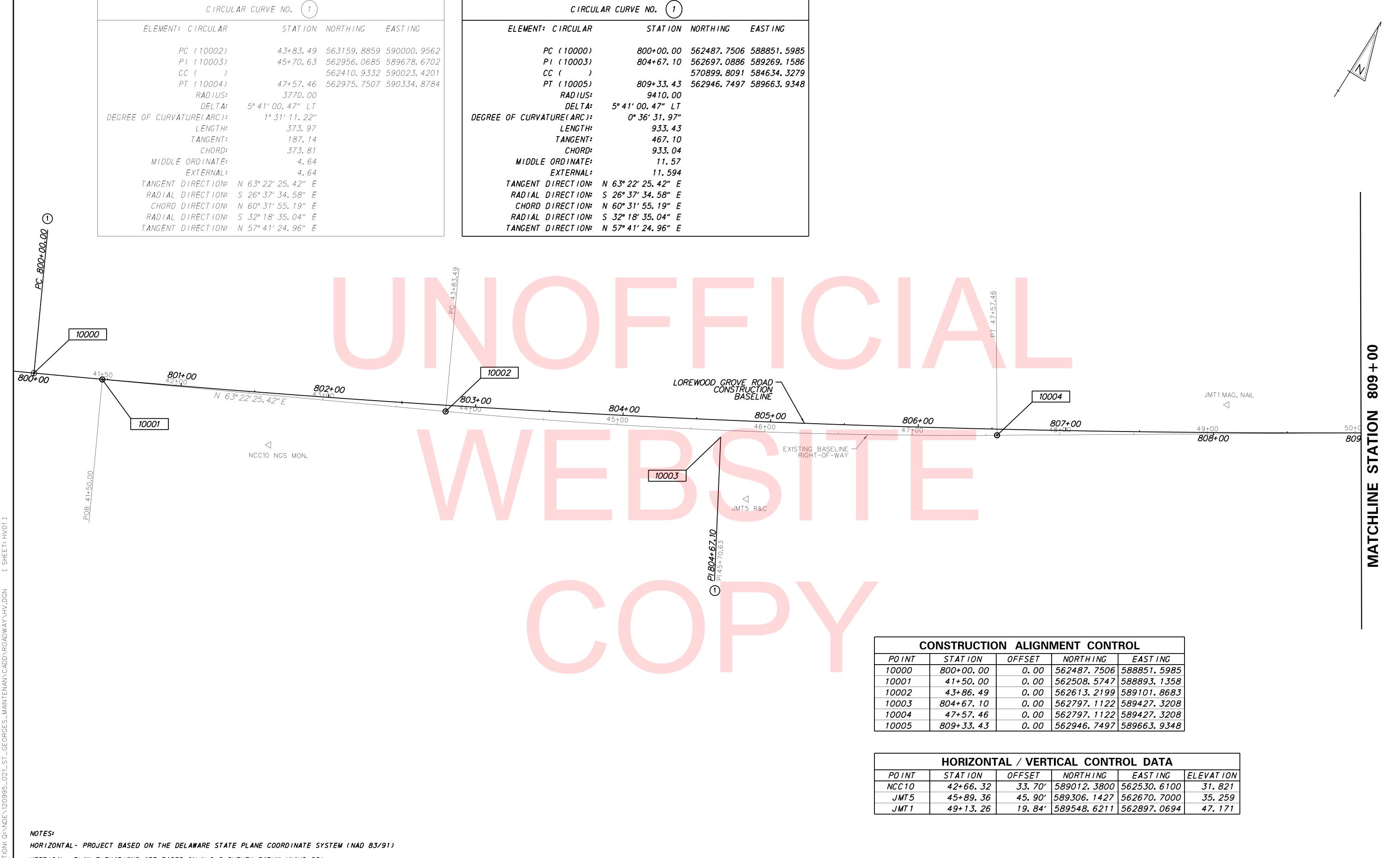
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TOTAL SHTS.

40







VERTICAL - PLAN ELEVATIONS ARE BASED ON N.G. S SURVEY DATUM (NAVD 88) GPS BENCHMARK K38 ELEV. 62.44 FEET N 554786.07 E 571138.31

	ADDENDUMS A	/ REVISIONS				
DELAWARE			\cap	SCA 30	LE 60	90
DEPARTMENT OF TRANSPORTATION				FEE		
				,	- '	

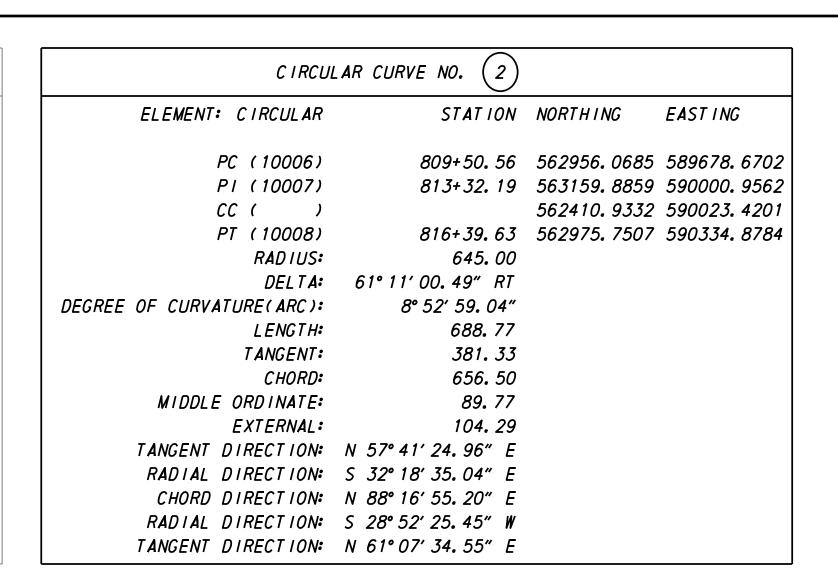
ST. GEORGES MAINTENANCE YARD **ENTRANCE IMPROVEMENTS**

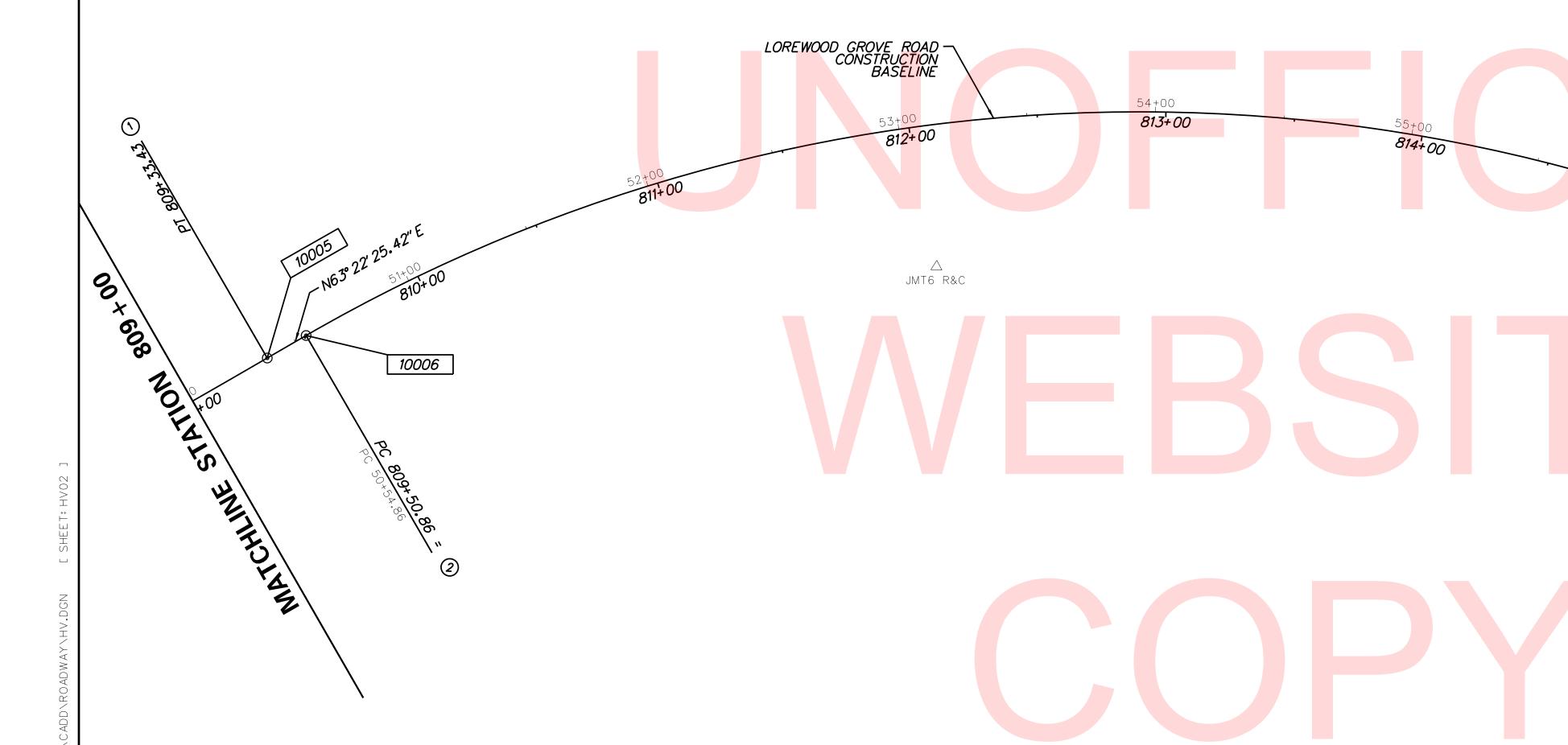
CONTRACT	BRIDGE NO.	N/A			
T201780102	5,415.07	IVA			
1201700102	DESIGNED BY: ARE				
COUNTY	DESIGNED BY ADI				
NEW CASTLE	CHECKED BY:	ЗРН			

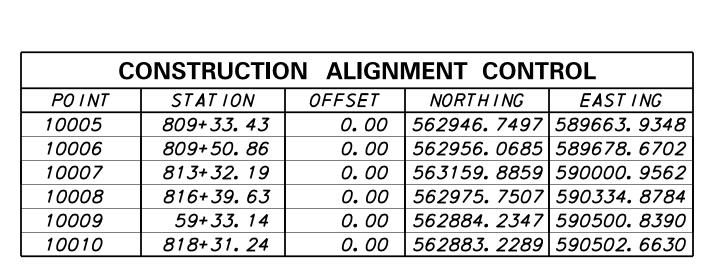
HORIZONTAL AND VERTICAL CONTROL



CIRCU	LAR CURVE NO. (2)		
ELEMENT: CIRCULAR	STATION	NORTHING	EASTING
PC (21071)	50+54.86	563159. 8859	590000. 9562
PI (21104)	54+36.18	562956.0685	589678.6702
CC (21072)		562410.9332	590023. 4201
PT (21073)	57+43.62	562975. 7507	590334.8784
R A DIUS:	645.00		
DELTA:	61°11′00.49″ RT		
DEGREE OF CURVATURE(ARC):	8° 52′ 59. 04″		
L <i>ENGTH</i> :	688.77		
TANGENT:	381.33		
CHORD:	656.50		
MIDDLE ORDINATE:	89. 77		
EXTERN A L:	104.29		
TANGENT DIRECTION:	N 57° 41′ 24. 96″ E		
RADIAL DIRECTION:	S 32° 18′ 35. 04″ E		
CHORD DIRECTION:	N 88° 16′ 55. 20″ E		
RADIAL DIRECTION:	S 28° 52′ 25. 45″ W		
TANGENT DIRECTION:	S 61°07′34.55″ E		







JMT7 MAG. NAIL

10008

HORIZONTAL / VERTICAL CONTROL DATA						
PO INT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	
JMT6	<i>53+07. 30</i>	<i>54.67′</i>	<i>589922. 1938</i>	<i>562992. 2995</i>	<i>55. 325</i>	
JMT7	<i>56+82.33</i>	18. 17'	590287.0284	563019. 2412	49.809	

HORIZONTAL - PROJECT BASED ON THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83/91)

VERTICAL - PLAN ELEVATIONS ARE BASED ON N.G. S SURVEY DATUM (NAVD 88)

GPS BENCHMARK K38 ELEV. 62.44 FEET N 554786.07 E 571138.31

	ADDENDUMS	/ REVISIONS				
DELAWARE				SC/	ALE 60	90
DEPARTMENT OF TRANSPORTATION			-	JU FF		30
			-	ΓĽ		

ST. GEORGES
MAINTENANCE YARD
ENTRANCE IMPROVEMENTS

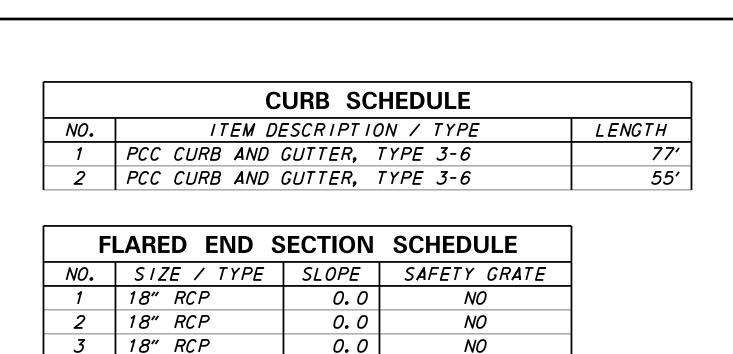
CONTRACT	BRIDGE NO.	N/A
T201780102	DECIONED DV:	
COUNTY	DESIGNED BY: ABF	
NEW CASTLE	CHECKED BY:	ВРН

HORIZONTAL AND VERTICAL CONTROL

10009

SHEET	NO.
8	
TOTAL	SHTS,
40)

10010



0.0

0.0

0.0

0.0

0.0

0.0

NO

NO

NO

NO

NO

24" RCP

24" RCP

18" RCP

18" RCP

18" RCP

RIPR/	RIPRAP STABILIZATION SCHEDULE				
NO.	TYPE	W	L	D	
1	R-4	<i>4.</i> 5′	8. O'	12"	
2	R-5	6. O'	9.0'	18"	
3	R-4	4.0'	<i>37.0'</i>	12"	
4	R-5	<i>4.</i> 5′	9.0'	18"	
6	R-4	4.0'	8 . 0'	12"	
7	R-5	6. O'	9.0'	18"	
8	R-4	4. 5'	8. O'	12"	

4.5'

STATION

807+35.50

DRAINAGE INLET SCHEDULE

12"

61.61 34" x 18" 1

NOTE: T.G. ELEVATION IS PROVIDED AT THE FLOW LINE OF THE CURB

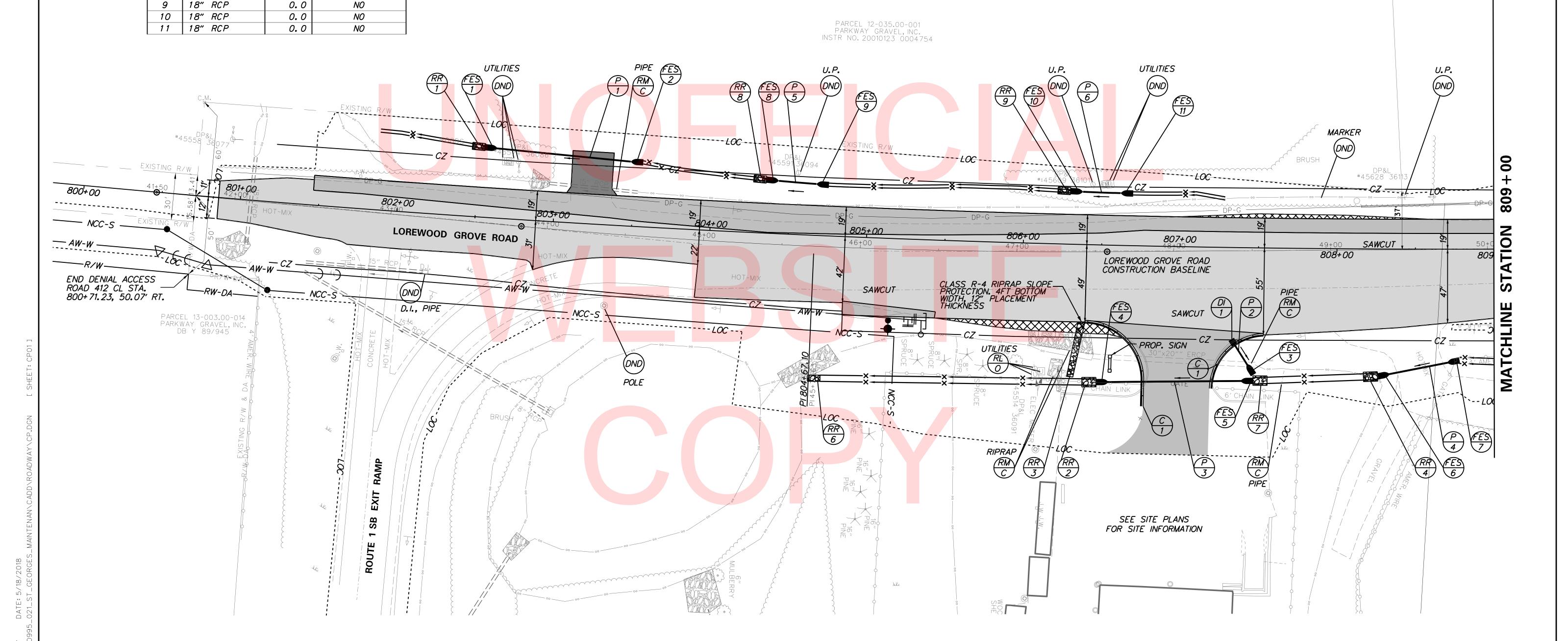
8. O'

OFFSET BOX SIZE GRATE T.G. EL. INV. EL.

42. 84

	D	RAINA	GE PIPE S	SCHEDUL	.E	
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
1	18" RCP	3	94'	0.0392	<i>30.</i> 45	29. 51
2	18" RCP	3	16'	0.0390	40.13	39. 50
*3	24" RCP	3	100'	0.0217	<i>39. 37</i>	<i>37. 20</i>
4	18" RCP	3	<i>53</i> ′	0.0274	44.00	<i>42.</i> 55
5	18" RCP	3	24'	0.0163	<i>32.</i> 46	<i>32. 07</i>
6	18" RCP	3	24'	0.0400	<i>37.</i> 64	<i>36. 68</i>
* NOTE:	COORDINATE PIPE C	ONSTRUC	TION SCHEDUL	E WITH SIT	E CONTRACTO	R TO ALLOW

ACCESS TO THE SITE.



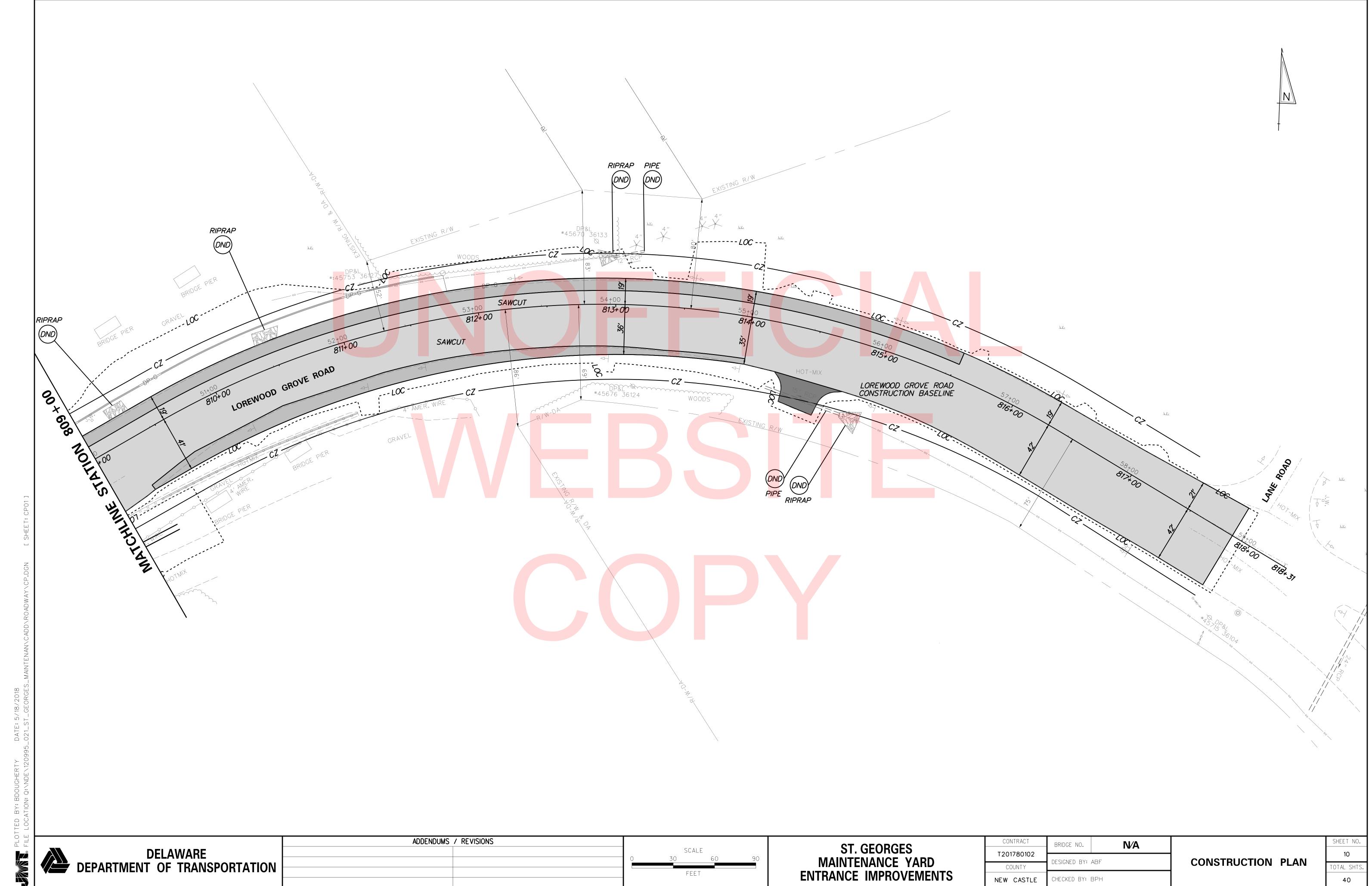
DELAWARE DEPARTMENT OF TRANSPORTATION ADDENDUMS / REVISIONS

ST. GEORGES MAINTENANCE YARD **ENTRANCE IMPROVEMENTS**

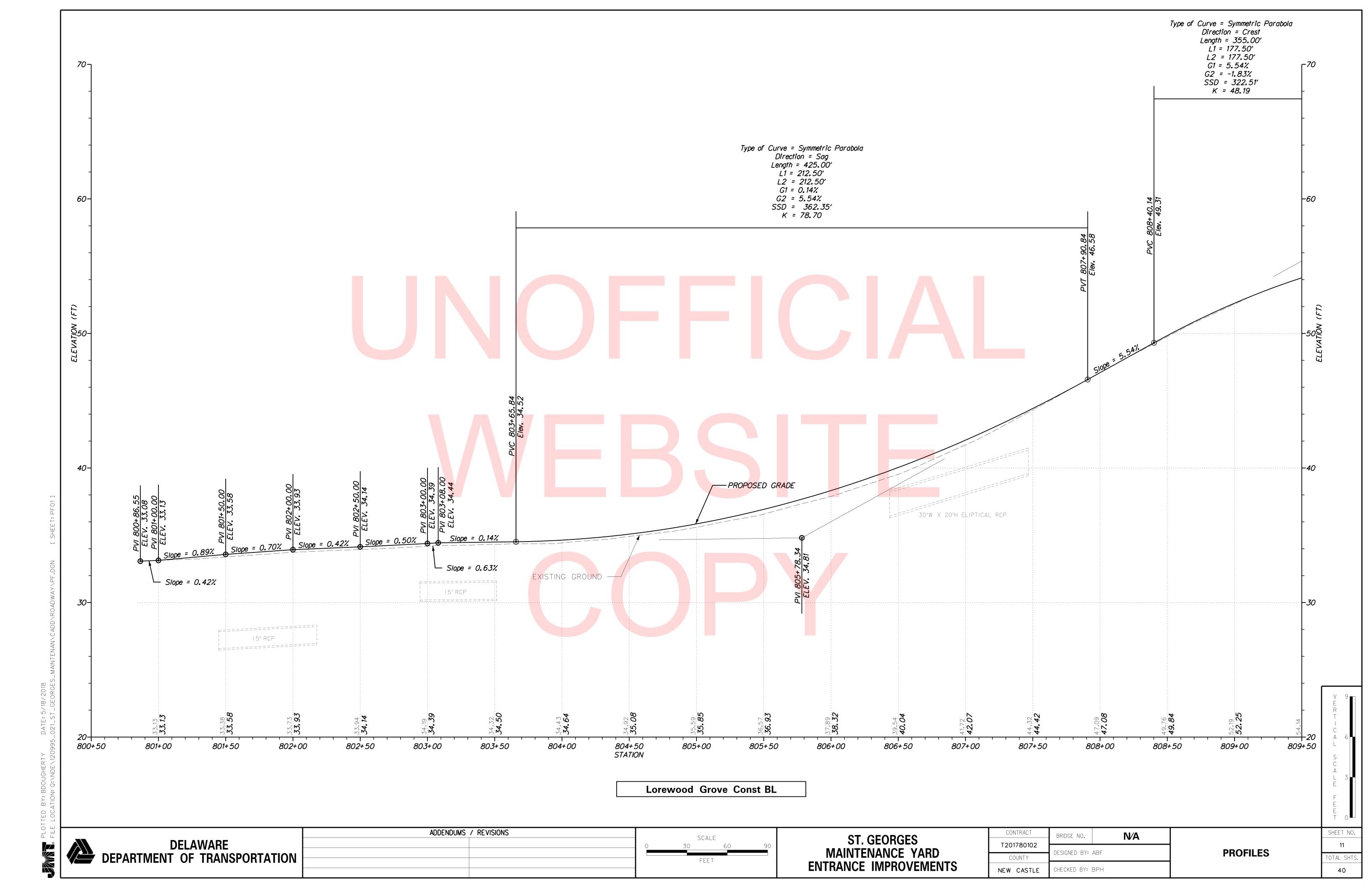
NTRACT	BRIDGE NO.	N/A	
1780102	DECIONED DV:	- 4	
OUNTY	DESIGNED BY:	ABF	
CASTLE	CHECKED BY:	ВРН	

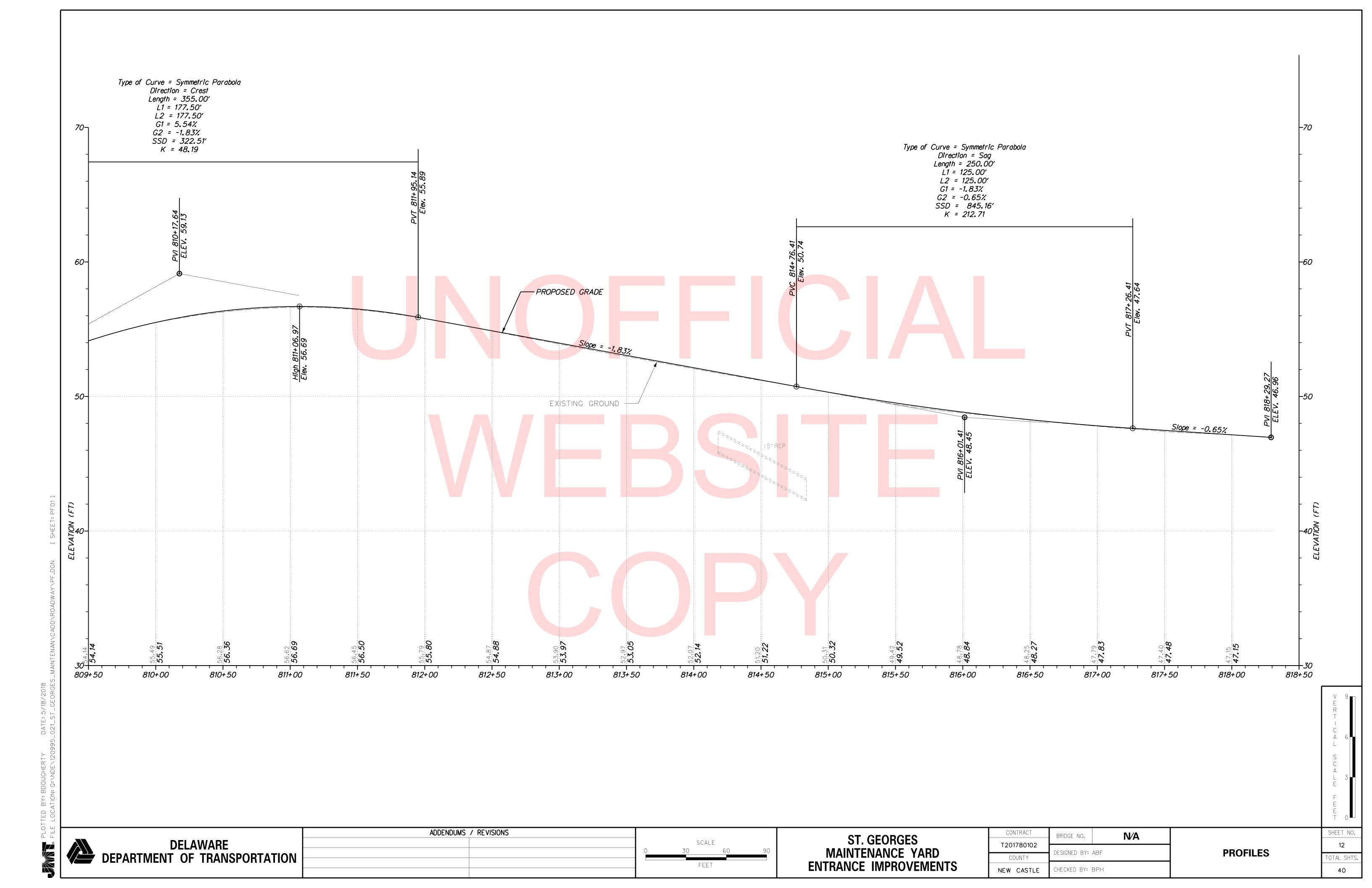
CONSTRUCTION PLAN

N TO	9
N	TOTAL SHTS.
	40



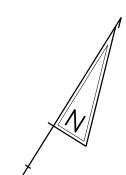
NEW CASTLE CHECKED BY: BPH

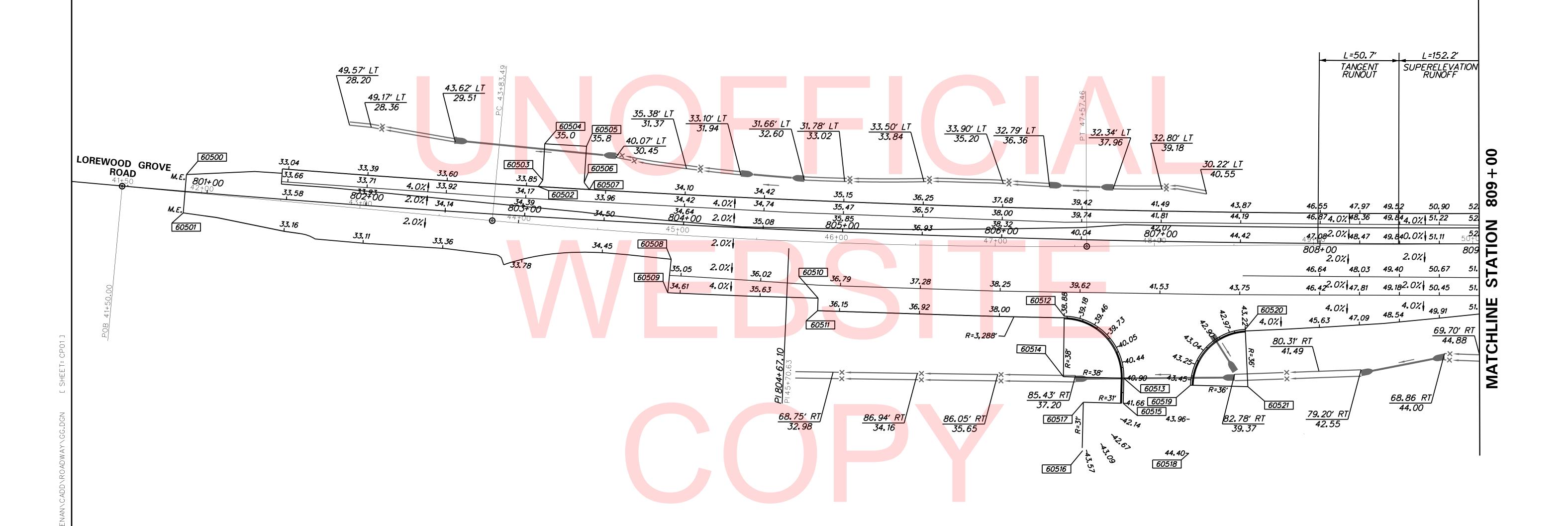




	COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EAST ING	
60500	800+86.10	-10.62'	<i>562536. 1439</i>	<i>588923. 5465</i>	
60501	800+86.14	1 <i>3.</i> 55′	562514.6540	<i>588934.</i> 6075	
60502	<i>803+07.45</i>	-19.00′	<i>562646. 7035</i>	<i>589115.0754</i>	
60503	803+10.02	-23. 13'	562561.5559	<i>589115. 3575</i>	
60504	803+09.90	-46.02'	562671.6123	<i>589104. 3324</i>	
60505	803+36.34	-46.02'	562684. 2047	<i>589127. 4340</i>	
60506	803+36.14	- <i>23. 25′</i>	562664. 1279	<i>589138.1784</i>	
60507	803+39.68	-19.00′	562662. 1016	<i>589143. 3216</i>	
60508	803+93. 34	21. 95′	<i>562652. 1338</i>	589210.0894	
60509	803+92. 22	43. 02'	<i>562633.</i> 1605	<i>589219. 3221</i>	
60510	804+86.33	42.07'	<i>562680. 2558</i>	589301.3018	

	COORDINATE LIST			
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60511	804+86.35	49. 96′	<i>562673. 4136</i>	<i>589305. 2148</i>
60512	806+40.49	48. 31'	561752. 4400	<i>589438.</i> 4928
60513	806+78.54	86.41′	<i>562739.</i> 1910	589490.8816
60514	806+40.88	86. 31'	562719. 9109	<i>589458. 1360</i>
60515	806+78.46	102. 15'	562725. 6277	<i>589498. 8675</i>
60516	<i>806+53.98</i>	132.41′	562686. 9524	<i>589492. 9974</i>
60517	806+53.70	102.07′	562712. 9240	589477. 2942
60518	807+19.73	132. 78′	<i>562720. 7816</i>	<i>589550. 4481</i>
60519	807+20.12	90. 02′	<i>562757. 6396</i>	<i>589528. 7587</i>
60520	<i>807+53.73</i>	<i>54. 48′</i>	<i>562805. 5710</i>	<i>589539. 3867</i>
60521	807+55.78	90. 42′	<i>562775. 9049</i>	<i>589559. 7809</i>





PLOTTED FILE LOCA

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE

30 60 9

FEET

ST. GEORGES
MAINTENANCE YARD
ENTRANCE IMPROVEMENTS

CONTRACT
BRIDGE NO.

T201780102

COUNTY

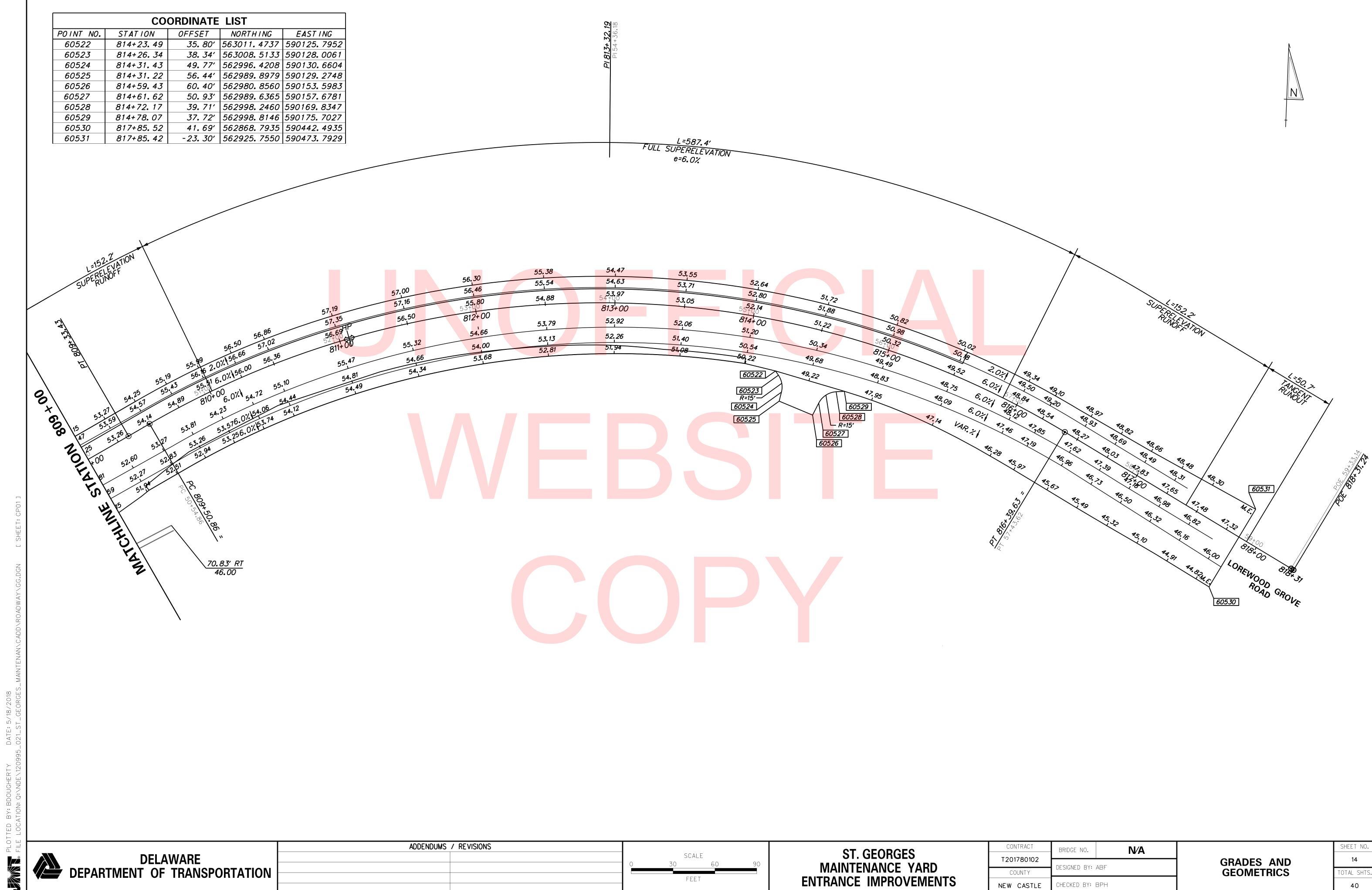
DESIGNED BY: ABF

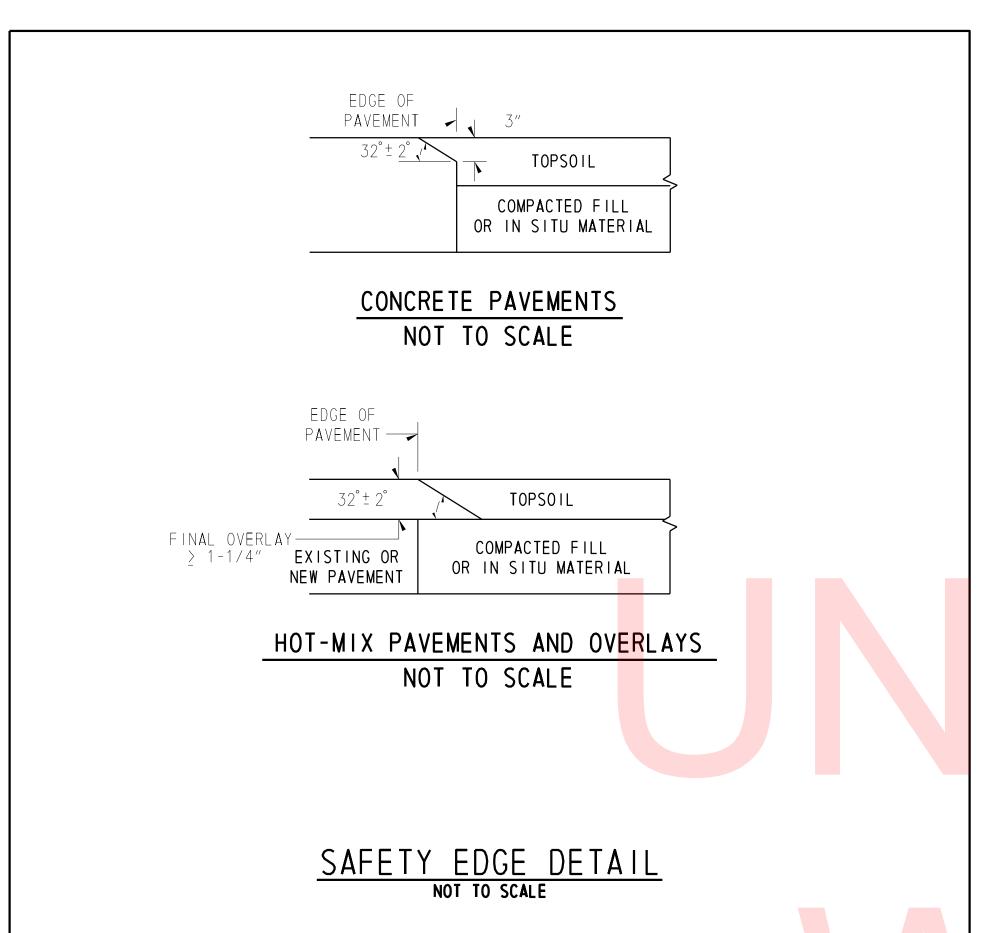
NEW CASTLE

CHECKED BY: BPH

GRADES AND GEOMETRICS

13 TOTAL SHTS





ADDENDUMS / REVISIONS DELAWARE DEPARTMENT OF TRANSPORTATION

NOT TO SCALE

ST. GEORGES
MAINTENANCE YARD **ENTRANCE IMPROVEMENTS**

N/A BRIDGE NO. T201780102 DESIGNED BY: ABF COUNTY NEW CASTLE CHECKED BY: BPH

CONSTRUCTION DETAILS 40

- 2. THE CONTRACTOR SHALL SUPPLY MESSAGE BOARDS 10 DAYS IN ADVANCE OF NEW TRAFFIC PATTERNS. THE ENGINEER MAY LENGTHEN OR SHORTEN THE REQUIRED DURATIONS FOR THE MESSAGE BOARDS BASED ON CONDITIONS IN THE FIELD. PAYMENT FOR THESE MESSAGE BOARDS WILL BE MADE UNDER ITEM NUMBER 803001. MESSAGE BOARD LOCATIONS AND MESSAGES SHALL BE COORDINATED AND APPROVED BY THE DISTRICT TRAFFIC SAFETY OFFICER.
- 3. ACCESS TO DELDOT MAINTENANCE YARD TO BE MAINTAINED THROUGH CONSTRUCTION.
- 4. AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED TRAFFIC CONTROL SUPERVISOR REQUIREMENT FOR THIS PROJECT.

()	THE CONTRACTOR SHALL NOT BE REQUIRED TO HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT.
(X)	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT OR ANOTHER ATSSA CERTIFIED MEMBER OF THE CONTRACTOR'S PROJECT STAFF MAY BE THE ATSSA SUPERVISOR. PAYMENT FOR THE ATSSA SUPERVISOR IS INCIDENTAL TO ITEM 801000.

•	EROSION POTENTIAL FOR THIS PROJECT	CONTRACTOR ESC SUPERVISOR REQUIREMENT
	() INSIGNIFICANT	NONE
	(X) MINOR	CONTRACTOR TRAINING PROGRAM, AS DEFINED IN SECTION 6.2 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
	() MAJOR	CERTIFIED CONSTRUCTION REVIEWER (CCR), AS DEFINED IN SECTION 6.3 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.

6. THE DISTURBED AREA FOR THIS PROJECT IS 6.3 ACRES.

7.THE SEDIMENT AND STORMWATER MANAGEMENT PLANS HAVE BEEN APPROVED BY DELDOT'S STORMWATER ENGINEER UNDER DELDOT'S DELEGATED AUTHORITY. THE SEDIMENT AND STORMWATER MANAGEMENT PLANS ARE VALID FOR A FIVE YEAR PERIOD, BEGINNING ON THE DATE THE STORMWATER ENGINEER SIGNED THE CONSTRUCTION TITLE SHEET. IF THE FINAL ACCEPTANCE OF THE PROJECT IS ANTICIPATED TO EXTEND BEYOND THE FIVE YEARS, THE CONTRACTOR WILL INFORM THE ENGINEER THREE MONTHS PRIOR TO THE EXPIRATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLANS. THE STORMWATER ENGINEER WILL REVIEW THE CURRENT SEDIMENT AND STORMWATER MANAGEMENT PLAN AND ISSUE AN EXTENSION WITH ANY APPROPRIATE MODIFICATIONS.

8. THE USE OF MILLINGS AND GABC IN THE TRAVEL WAY, TEMPORARY TRAVEL WAY, HIGH VOLUME ENTRANCES, AND ACCESS RAMP FOR THE PURPOSE OF PROVIDING A TEMPORARY ROADWAY SURFACE, POTHOLE REPAIR, TAPERED EDGE FOR UTILITIES, BUTT JOINTS, AND LONGITUDINAL DROP-OFFS (MILLING AND PAVING OPERATIONS) IS PROHIBITED UNLESS IT IS OTHERWISE DESIGNATED TO BE USED IN THE CONTRACT PLANS. USE COLD PATCH, BITUMINOUS CONCRETE, BITUMINOUS CONCRETE WEDGE, OR TAPER MILL, AS NOTED IN THE CONTRACT DOCUMENTS OR APPROVED BY THE ENGINEER. PAYMENT FOR COLD PATCH, BITUMINOUS CONCRETE, OR BITUMINOUS CONCRETE WEDGE SHALL BE PAID AS NOTED IN THE CONTRACT DOCUMENTS. TAPER MILL BITUMINOUS CONCRETE SHALL BE PAID UNDER THE BITUMINOUS CONCRETE MILLING ITEM.

9. MILLINGS OR GABC SHALL BE USED AT THE FOLLOWING LOCATIONS WHERE ACCESS TO A BUSINESS, RESIDENCE, OR EDGE DROP OFF NEEDS TO BE MAINTAINED UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE ENGINEER TO USE BITUMINOUS CONCRETE OR COLD PATCH. ALL MILLINGS AND GABC WILL BE ROLLED AND COMPACTED TO HELP PREVENT THE MATERIAL FROM UNRAVELLING:

- A. DRIVEWAYS
- B. ENTRANCES
- C. LOW VOLUME ACCESS RAMPS (IDENTIFIED IN THE CONTRACT DOCUMENTS)
- D. EDGE DROP OFFS ADJACENT TO LIVE ROADWAY (LANE, SHOULDER, OR TURN LANE) AND THE PROPOSED ROAD CONSTRUCTION
- E. EDGE OF ROADWAY DROP OFF

GRADING AND MAINTAINING BASE COURSE THAT IS BEING USED FOR ROADWAY WEDGE/FILLET BETWEEN TRAVEL LANES AND PAVEMENT BOX, EDGE OF TRAVEL WAY, DRIVEWAY, OR ENTRANCE ACCESS SHALL BE INCIDENTAL TO ITEM NO. 743000 - MAINTENANCE OF TRAFFIC. THE BASE COURSE MATERIAL SHALL BE PLACED AT NO GREATER THAN THE SLOPE SPECIFIED IN TABLE 6G-1 AND SHALL BE COMPACTED. EXCESS BASE COURSE MATERIAL SHALL BE PUSHED AHEAD AND USED IN THE NEXT SEGMENT AND SHALL BE INCIDENTAL TO THE PERTINENT BASE COURSE PAY ITEM. NO SEPARATE PAYMENT SHALL BE MADE FOR MILLINGS OR GABC TEMPORARY ROADWAY MATERIAL (TRM) USED TO PROTECT EDGE DROP OFFS, UNLESS THE MATERIAL IS EVENTUALLY UTILIZED AS PART OF A PERMANENT ROADWAY AT WHICH TIME THE MATERIAL WOULD BE PAID FOR UNDER THE RESPECTIVE CONTRACT MATERIAL ITEM. VERTICAL DIFFERENCES SHALL BE CORRECTED IN ACCORDANCE WITH TABLE 6G-1 OF THE DELAWARE MUTCD.

PHASE 1 SEQUENCE OF CONSTRUCTION:

- 1. PLACE ALL PHASE 1 EROSION AND SEDIMENT CONTROLS, TEMPORARY WARNING SIGNS AND M.O.T. DEVICES AS SHOWN ON THE PLANS. PLACE TEMPORARY PAVEMENT STRIPING USING M.O.T. TA-35B AS SHOWN IN PHASE 1 TRAFFIC CONTROL PLAN.
- 2. INSTALL SANITARY SEWER AND WATER LINE AS SHOWN ON THE UTILITY RELOCATION PLAN UTILIZING TA-3 OF THE DELAWARE MUTCD.
- 3. INSTALL DRAINAGE SWALE AND PIPES P-1, P-5, AND P-6. CONTACT DELMARVA POWER TO HOLD POLES IF NECESSARY.
- 4. PERFORM MILLING OF LOREWOOD GROVE BETWEEN PROJECT LIMITS.
- 5. UTILIZING TA-11B OF THE DELAWARE MUTCD, SAWCUT EXISTING PAVEMENT AND CONSTRUCT PAVEMENT WIDENING ALONG NORTHERN SIDE OF LOREWOOD GROVE ROAD. PLACE WARM-MIX PAVING SECTION UP TO TOP OF WARM-MIX B LAYER ON PROPOSED ROADWAY. AT THE END OF EACH WORKDAY ELIMINATE ALL DROP-OFFS IN ACCORDANCE WITH THE DELAWARE MUTCD.
- 6. INSTALL DRIVEWAY AT STATION 803+25, LT, PLACING WARM-MIX PAVING SECTION UP TO TOP
 OF WARM-MIX B LAYER.
- 7. PROVIDE TOPSOIL, PERMANENT SEED DRY GROUND, EROSION CONTROL BLANKET. ALL DISTURBED AREAS MUST BE STABALIZED PRIOR TO PROCEEDING TO THE NEXT PHASE.
- 8. REMOVE PHASE 1 TEMPORARY STRIPING. PLACE TEMPORARY PAVEMENT STRIPING AND WARNING SIGNS USING M.O.T. TA-35B AS SHOWN IN PHASE 2 TRAFFIC CONTROL PLAN.
- 9. REMOVE AND REPLACE THE TOP 2" OF STONE WITH CLEAN STONE IN THE STABILIZED CONSTRUCTION ENTRANCE AS REQUIRED BY THE ENGINEER. PAYMENT FOR THE REMOVAL AND REPLACEMENT OF THE STONE SHALL BE INCIDENTAL TO ITEM 302002 DE NO. 3 STONE.
- 10. ALL DISTURBED AREAS SHALL BE ADEQUATELY STABILIZED PRIOR TO PROCEEDING TO THE NEXT PHASE.

PHASE 2 SEQUENCE OF CONSTRUCTION:

- 1. PLACE ALL PHASE 2 EROSION AND SEDIMENT CONTROLS, TEMPORARY WARNING SIGNS AND M.O.T. DEVICES AS SHOWN ON THE PLANS. PLACE TEMPORARY PAVEMENT STRIPING USING M.O.T. TA-35B AS SHOWN IN PHASE 2 TRAFFIC CONTROL PLAN. PERFORM MILLING OF LOREWOOD GROVE BETWEEN PROJECT LIMITS.
- 2. INSTALL CURBS C-1 AND C-2, DRAINAGE SWALES AND PIPES P-2, P-3, P-4.
- 3. UTILIZING TA-11B OF THE DELAWARE MUTCD, SAWCUT EXISTING PAVEMENT AND CONSTRUCT PAVEMENT WIDENING ALONG SOUTHERN SIDE OF LOREWOOD GROVE ROAD.
- 4. PROVIDE TOPSOIL, PERMANENT SEED DRY GROUND, EROSION CONTROL BLANKET. ALL DISTURBED AREAS MUST BE STABALIZED PRIOR TO PROCEEDING TO THE NEXT PHASE.
- 5. REMOVE AND REPLACE THE TOP 2" OF STONE WITH CLEAN STONE IN THE STABILIZED

 CONSTRUCTION ENTRANCE AS REQUIRED BY THE ENGINEER. PAYMENT FOR THE REMOVAL AND

 REPLACEMENT OF THE STONE SHALL BE INCIDENTAL TO ITEM 302002 DE NO. 3 STONE.

PHASE 3 SEQUENCE OF CONSTRUCTION:

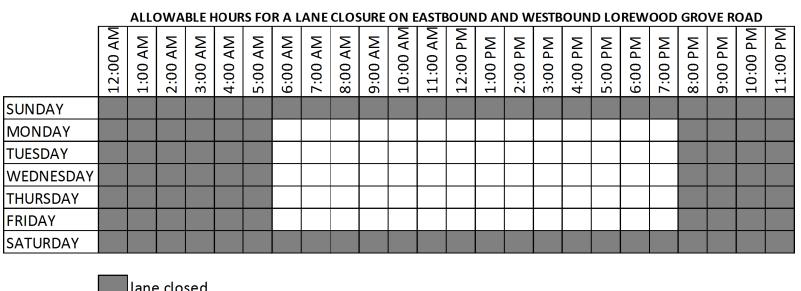
- 1. PERFORM PAVEMENT WEDGING AND SURFACE OVERLAY OF LOREWOOD GROVE ROAD.
- 2. INSTALL FINAL STRIPING UTILIZING TA 35-B.
- 3. UPON APPROVAL FROM DELDOT, REMOVE ALL TEMPORARY SEDIMENT CONTROL MEASURES.
- 4. REMOVE EROSION AND SEDIMENT CONTROL DEVICES AFTER THE FINAL VEGETATIVE STABILIZATION OF ALL DISTURBED AREAS AND WITH CONCURRENCE FROM DELDOT'S STORMWATER ENGINEER.

CONSTRU	JCTION PHASING & M.O.T
Ħ	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
(CSF) XXX	CONSTRUCTION SAFETY FENCE / LENGTH
—— <i>CSF</i> ——	CONSTRUCTION SAFETY FENCE
\rightarrow	CONSTRUCTION WARNING SIGN LOCATION
END ROAD WORK	CONSTRUCTION WARNING SIGN
•••••	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
PAUS	PHASING TRAFFIC FLOW ARROW
	WORK AREA - ACTIVE PHASE
_	TEMPORARY PAVEMENT MARKING ARROW

EROSION	& SEDIMENT CONTROL
<u>CFL</u>	COMPOST FILTER LOG / LENGTH
CFL	COMPOST FILTER LOG
-DWBAG	DEWATERING BAG
- DWB	DEWATERING BASIN
ED /	EARTH DIKE
•	INLET SEDIMENT CONTROL
======================================	PERIMETER DIKE/SWALE
(3)	PORTABLE SEDIMENT TANK
SBD	SANDBAG DIKE
SB	SANDBAG DIVERSION
	STONE CHECK DAM
SCE SCE	STABILIZED CONSTRUCTION ENTRANCE
<i>SF</i>	SILT FENCE / LENGTH
——SF——	SILT FENCE
RSF	SILT FENCE - REINFORCED
SP	SUMP PIT
<u>\$1</u>	SEDIMENT TRAP
ST	SEDIMENT TRAP
Ş	SEDIMENT TRAP WITH INLET AS OUTLET
ST ST	SEDIMENT TRAP PIPE OUTLET
SW	STILLING WELL
====/====i	TEMPORARY SWALE
<i>TSD</i>	TEMPORARY SLOPE DRAIN
TXXX	TURBIDITY CURTAIN / LENGTH
	TURBIDITY CURTAIN

TRAFFIC RESTRICTIONS

THE FOLLOWING LANE CLOSURE MATRIX INDICATES THE ALLOWABLE TIMES FOR LANE CLOSURES ON LOREWOOD GROVE ROAD:



lane closed lane open

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

ST. GEORGES

MAINTENANCE YARD

ENTRANCE IMPROVEMENTS

CONTRACT
BRIDGE NO.

NA

T201780102

COUNTY

DESIGNED BY: ABF

CHECKED BY: BPH

CONSTRUCTION PHASING, M.O.T. AND EROSION CONTROL PLAN

M.O.T.
PLAN

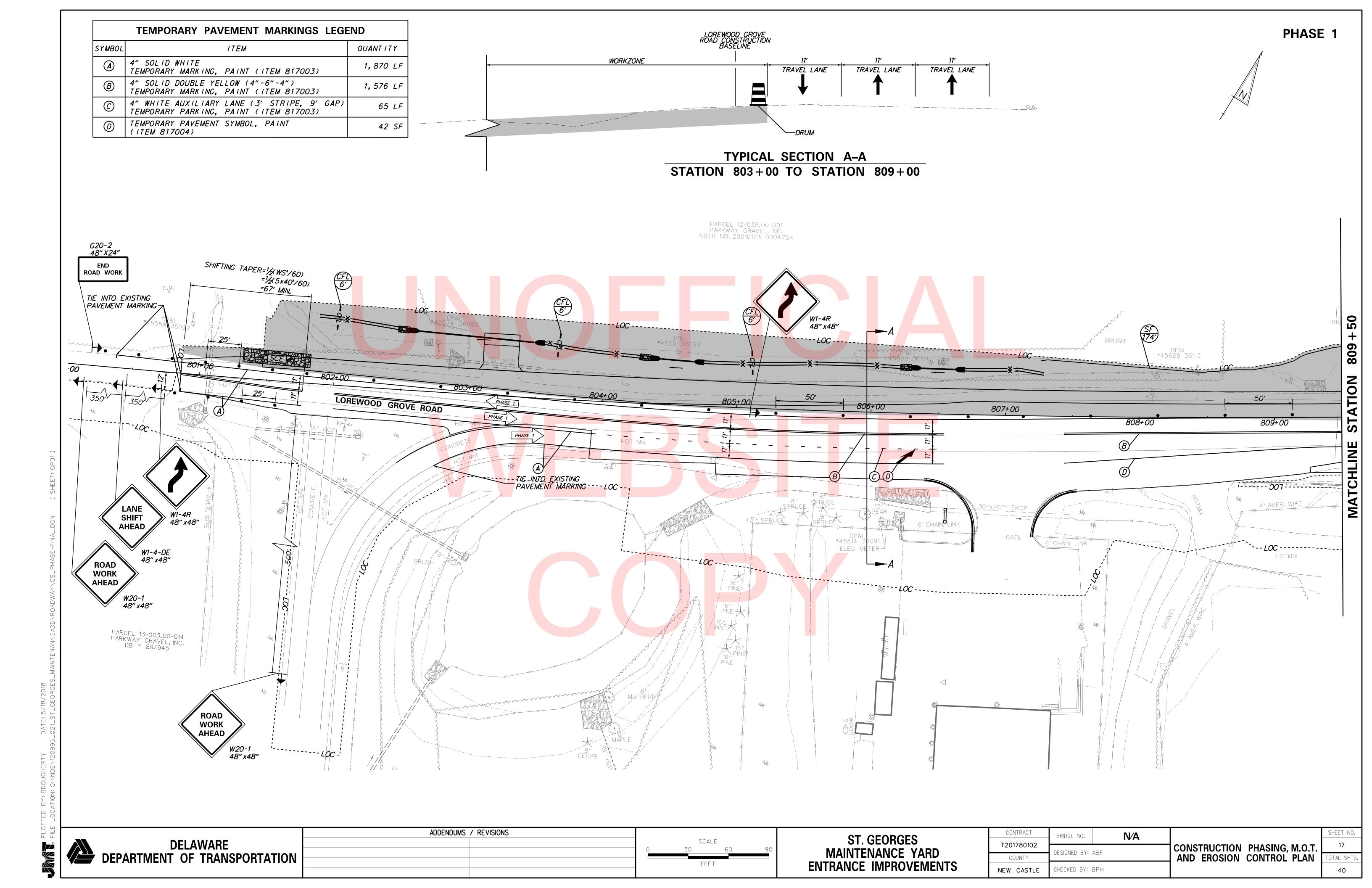
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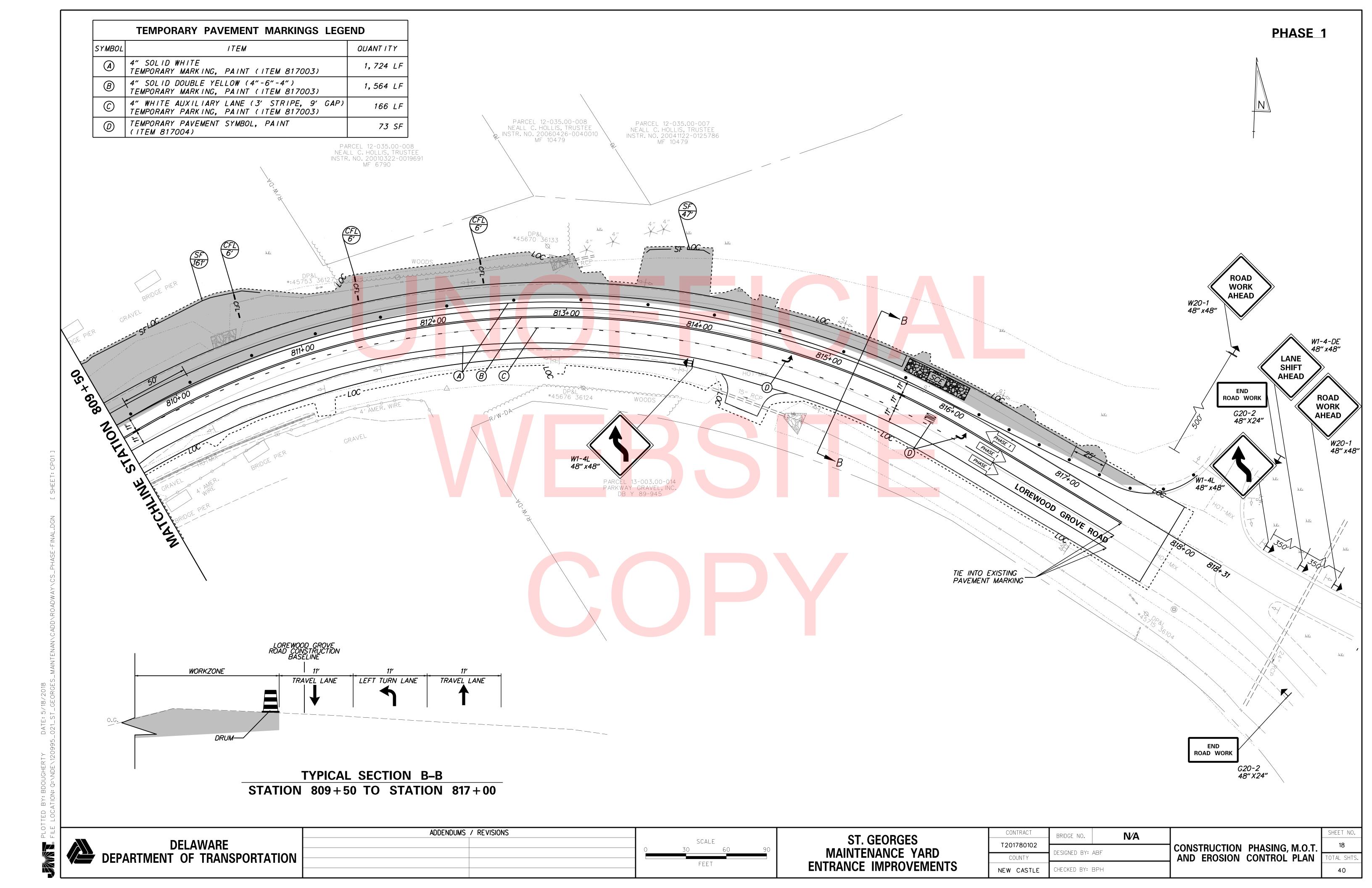
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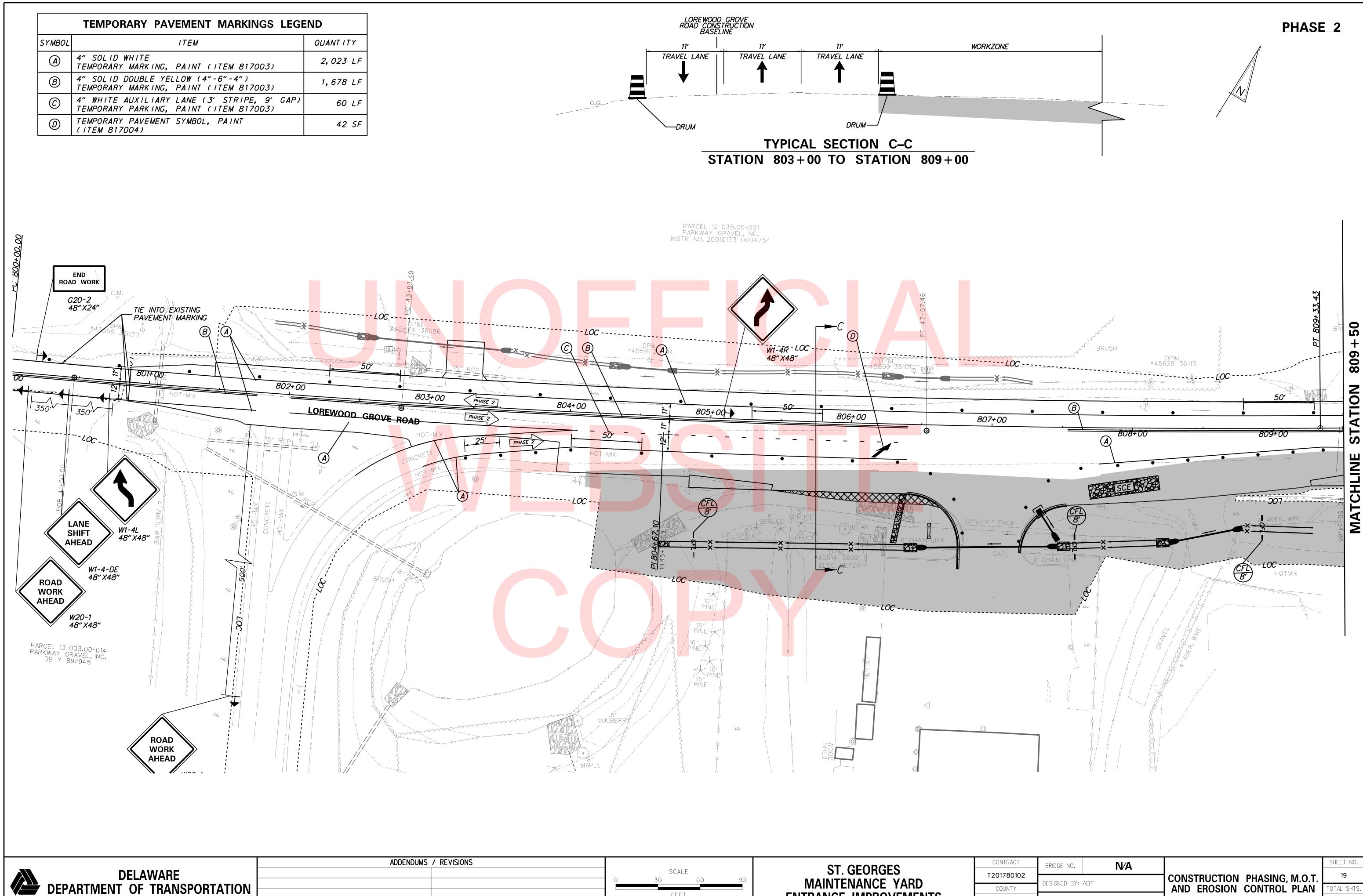
TOTAL SHTS

40

N.T.S





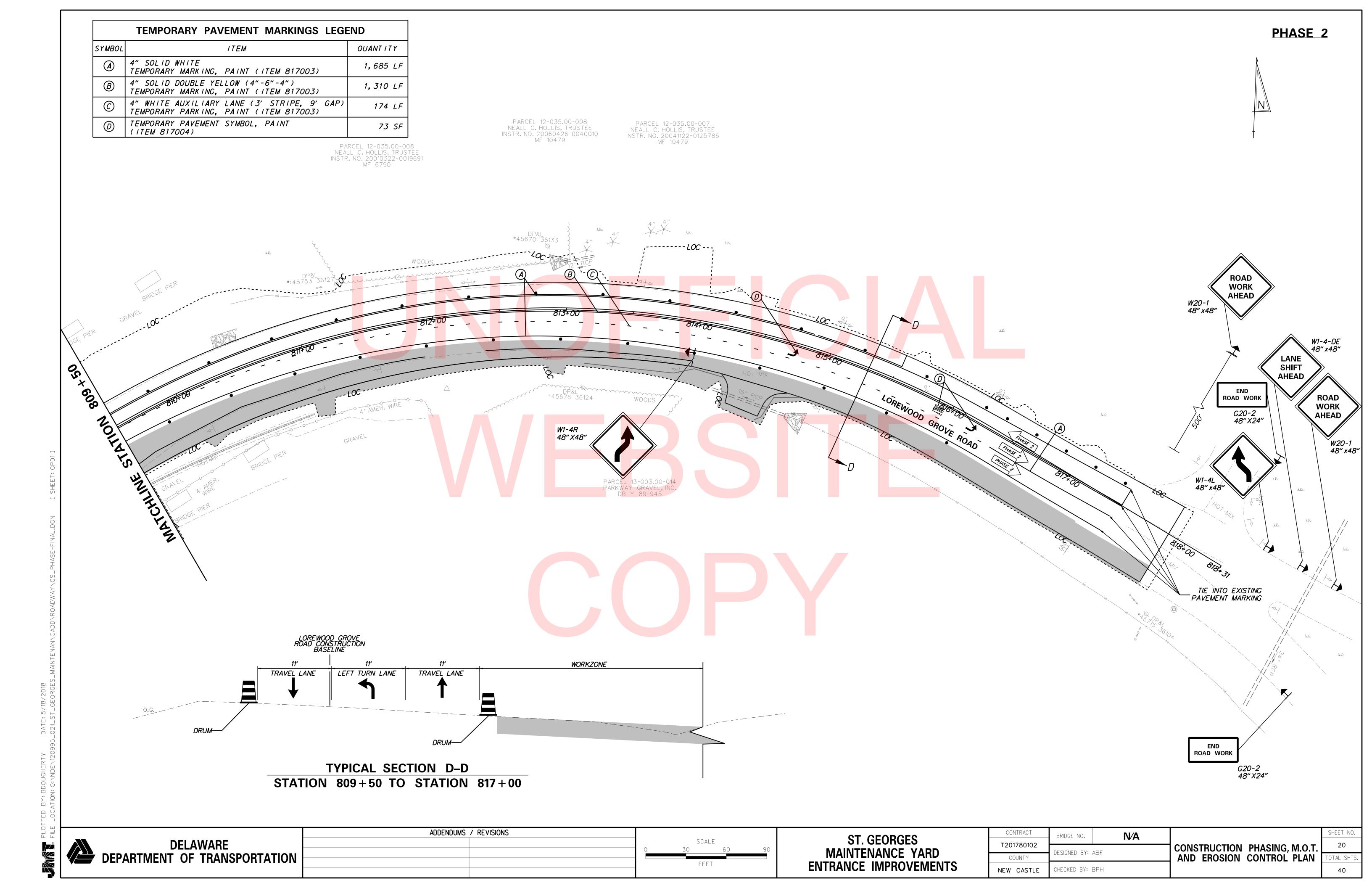


COUNTY

NEW CASTLE

CHECKED BY: BPH

ENTRANCE IMPROVEMENTS



NEW CASTLE COUNTY STANDARD NOTES

- 1. SANITARY SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT NEW CASTLE COUNTY STANDARD SPECIFICATIONS FOR CONSTRUCTION, SPECIAL PROVISIONS, SUPPLEMENTAL SPECIFICATIONS, STANDARD DETAILS, AND THE RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES OR STRICTER STANDARDS IDENTIFIED BY THE ENGINEER.
- 2. THE CONTRACTOR'S SHALL BE RESPONSIBLE TO OBTAIN APPROVAL AND ACCEPTANCE OF THE SANITARY SEWER SYSTEM BY NEW CASTLE COUNTY UPON COMPLETION OF CONSTRUCTION. AS-BUILT PLANS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR OR PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF DELAWARE MUST BE SUBMITTED TO NEW CASTLE COUNTY BEFORE ACCEPTANCE.
- 3. DURING CONSTRUCTION, THE CONTRACTOR MUST HAVE IN HIS POSSESSION ON SITE, A SET OF CONSTRUCTION PLANS BEARING NEW CASTLE COUNTY'S STAMP OF APPROVAL.
- 4. THE CONTRACTOR SHALL NOT PLACE, PLANT, PUT OR SET ANY STRUCTURE WITHIN THE SANITARY SEWER EASEMENT.
- 5. A CONSTRUCTION PERMIT ISSUED BY THE STATE OF DELAWARE, DEPARTMENT OF TRANSPORTATION (DELDOT) IS REQUIRED BEFORE ANY WORK IS PERFORMED WITHIN A DELDOT RIGHT-OF-WAY. ALL WORK PERFORMED WITHIN DELDOT'S RIGHT-OF-WAY OR PROPERTY OWNED BY THE STATE OF DELAWARE SHALL BE PERFORMED IN ACCORDANCE WITH THE MOST RECENT DELDOT STANDARD SPECIFICATIONS AND UTILITY MANUAL.
- 6. SANITARY SEWER IS TO BE PRIVATELY OWNED AND MAINTAINED BY DELDOT.
- 7. CONSTRUCTION SHALL NOT DEVIATE FROM THE PLANS AND SPECIFICATIONS APPROVED BY NEW CASTLE COUNTY WITHOUT WRITTEN PERMISSION FROM NEW CASTLE COUNTY'S DEPARTMENT OF SPECIAL SERVICES.
- 8. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS, DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK AND THE NEW CASTLE COUNTY DRAINAGE CODE, AS AMENDED.
- 9. TYPICAL SEQUENCE OF CONSTRUCTION:
- A. CONTACT NEW CASTLE COUNTY DEPARTMENT OF SPECIAL SERVICES (48 HOURS NOTICE AT 302-395-5756) PRIOR TO ANY EXCAVATION OR ACTIVITY INVOLVING SANITARY SEWER CONSTRUCTION, PUMP STATION CONSTRUCTION OR LATERAL TIE-IN'S TO EXISTING LINES.
- B. CONSTRUCT PROPOSED SANITARY SEWER SYSTEM AS APPROVED BY NEW CASTLE COUNTY.
- C. BACKFILL AND RE-GRADE AS REQUIRED.
- D. PERFORM AIR TEST, IF REQUIRED, IN ACCORDANCE WITH SECTION 32.01-3 OF THE NEW CASTLE COUNTY STANDARD SPECIFICATIONS FOR CONSTRUCTION, IN THE PRESENCE OF A NEW CASTLE COUNTY INSPECTOR.
- E. FOLLOWING A PASSING AIR TEST (IF APPLICABLE), A FINAL VISUAL INSPECTION (LAMP TEST) MUST BE PERFORMED PRIOR TO ACCEPTANCE BY NEW CASTLE COUNTY.
- F. BASED UPON THE RESULTS OF THE VISUAL INSPECTION, A MANDREL TEST MAY BE REQUIRED FOLLOWING THE VISUAL INSPECTION.
- G. LATERAL CONNECTIONS FROM NEW HOMES/OFFICE BUILDINGS INTO THE SEWER LINE WILL NOT BE PERMITTED UNTIL AFTER FINAL ACCEPTANCE.
- H. PRIOR TO NEW CASTLE COUNTY MAKING A FINAL INSPECTION, THE FOLLOWING ITEMS MUST BE
- I. ALL MANHOLES MUST BE BROUGHT TO GRADE AND HAVE CONCRETE COLLARS INSTALLED.
- II. CHANNELS MUST BE COMPLETED IN ALL MANHOLES.
- III. ANY INSIDE DROP PIPE AND APPURTANCES INSALLED.

 IV. ALL MANHOLES AND SEWER PIPES MUST
- BE CLEANED AND FLUSHED.
- V. AS-BUILT DRAWINGS (SIGNED AND SEALED BY A REGISTERED LAND SURVEYOR OR PROFESSIONAL ENGINEER IN DELAWARE) WITH ONE (1) MYLAR AND THREE (3) SETS OF PRINTS MUST BE SUBMITTED TO NEW CASTLE COUNTY.
- VI. TURF TRAILIS CONSTRUCTED IN ACCORDANCE WITH NCC DETAIL SS-MISC-2, OR IF PIPE AND MANHOLES ARE WITHIN A PROPOSED ROADWAY, STABILIZED ROADWAY ACCESS IS CONSTRUCTED FOR THE PURPOSE OF MAINTAINING THE CONSTRUCTED SANITARY SEWER SYSTEM UNTIL FINAL PAVING IS COMPLETED.
- I. CERTIFICATES OF OCCUPANCY WILL NOT BE ISSUED UNTIL THE AS-BUILT DRAWINGS HAVE BEEN RECEIVED, REVIEWED, AND APPROVED AND THE SANITARY SEWER CONSTRUCTION (INCLUDING ALL APPURTANCES HAS BEEN ACCEPTED BY NEW CASTLE COUNTY.)
- 10. MANHOLE COVER(S) ON PRIVATELY OWNED AND MAINTAINED SEWER SYSTEMS SHALL NOT BE LABELED "NEW CASTLE COUNTY."

SEWER INSTALLATION NOTES

- 1. DRAWINGS HAVE BEEN CREATED FROM NEW CASTLE COUNTY GIS AND RECORD PLANS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL INFORMATION THAT MAY AFFECT WORK.
- 2.THE SIZES OF SANITARY SEWER PIPES, MANHOLES, LATERALS, CLEAN OUTS AND OTHER UTILITIES DEPICTED ON PLANS AND PROFILES ARE EXAGGERATED FOR ILLUSTRATIVE PURPOSES. PIPE LENGTHS SHOWN ARE ROUNDED TO THE NEAREST FOOT AND ARE MEASURED FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE NEW CASTLE COUNTY SPECIAL SERVICE INSPECTOR AND DISPATCH OFFICE (302-395-5700) 48 HOURS PRIOR TO THE START OF ALL CONSTRUCTION IN ACCORDANCE WITH ALL PERMITS ISSUED.
- 4. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH THE LASTEST EDITION OF THE DELAWARE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. COMMENCEMENT OF CONSTRUCTION OF THE JACK AND BORE WILL BE CONTINGENT UPON RECEIVING APPROVAL OF THE TRAFFIC CONTROL PLAN FROM DELDOT'S CONSTRUCTION SECTION. THE CONTRACTOR SHALL UTILIZE TYPICAL APPLICATION 3 (TA-3) OF THE DEMUTCD FOR ALL OTHER TYPICAL SEWER MAIN CONSTRUCTION.

- 4. IN ACCORDANCE WITH THE NEW CASTLE COUNTY WATER AND SEWER ORDINANCE, CONTRACTOR SHALL MAINTAIN A MINIMUM OF 18" VERTICAL SEPARATION AND 10' HORIZONTAL SEPARATION BETWEEN WATER AND SEWER, UNLESS OTHERWISE NOTED; 12" VERTICAL SEPARATION BETWEEN ALL OTHER UTILITIES.
- 5. EXISTING LATERAL AND STUB INFORMATION ARE TAKEN FROM RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. LOCATIONS, ORIENTATION AND ALIGNMENT ARE APPROXIMATE.
- 6. THE CONTRACTOR IS RESPONSIBLE TO PROTECT ALL UTILITIES WITHIN AND ADJACENT TO THE AREA OF WORK. ANY DAMAGE CAUSED DURING CONSTRUCTION SHALL BE REPAIRED AT THE SOLE EXPENSE OF THE CONTRACTOR.
- 7. THRUST BLOCKS SHALL BE USED AT ALL BENDS.
- 8. BEDDING REQUIREMENTS SHALL BE AS SHOWN IN PLANS AND SPECIFICATIONS AND IS REQUIRED UNDER ALL PIPES.
- 9. LEAKAGE TEST FOR SANITARY SEWERS SHALL BE CONDUCTED IN ACCORDANCE WITH NEW CASTLE COUNTY STANDARD SPECIFICATION 32.01-3.2.
- 10. FULL COMPENSATION FOR FURNISHING AND INSTALLING SANITARY SEWER PIPES, ACCOSIATED BENDS, WYES, CLEAN-OUTS, WARNING TAPE, VALVES, AND RELATED FITTINGS INCLUDING CONCRETE THRUST BLOCKS IN THE SEWER LINE EXCAVATION, E&S MEASURES, BACKFILL, BY-PASS PUMPING AND THE LIKE ARE INCIDENTAL TO INSTALLING THE SANITARY SEWER SYSTEM AS DESCRIBED HEREIN.

WATER MAIN INSTALLATION NOTES

- 1. CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION MEETING AT THE PROJECT SITE. SEE THE CONTRACT SPECIAL PROVISIONS FOR A LIST OF THE AGENCIES THAT SHALL BE CONTACTED AT LEAST 7 DAYS IN ADVANCE OF THE PRE-CONSTRUCTION MEETING.
- 2. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH THE LATEST EDITION OF THE DELAWARE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. COMMENCEMENT OF CONSTRUCTION OF THE JACK AND BORE OPERATION WILL BE CONTINGENT UPON RECEIVING APPROVAL OF A TRAFFIC CONTROL PLAN FROM DELDOT'S CONSTRUCTION SECTION. THE CONTRACTOR SHALL UTILIZE TYPICAL APPLICATION 3 (TA-3) OF THE DEMUTCD FOR OTHER STANDARD WATER MAIN CONSTRUCTION.
- 3. CONTRACTOR SHALL CONTACT THE ARTESIAN WATER INSPECTOR AND DELDOT PROJECT REPRESENTATIVE AT LEAST THREE DAYS PRIOR TO THE PLANNED START OF CONSTRUCTION.
- 4. CONTRACTOR SHALL CONTACT MISS UTILITY AT LEAST 48 HOURS PRIOR TO EXCAVATION ACTIVITIES.
- 5. CONTRACTOR SHALL LAYOUT ALL PROPOSED WATER FACILITIES, PER ARTESIAN'S STAKE OUT SPECIFICATIONS, FOR APPROVAL FROM DELDOT OR ITS CONSULTANT PRIOR TO THE START OF PIPELINE INSTALLATION.
- 6. CONSTRUCTION OF THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE ARTESIAN WATER
 COMPANY INSTALLATION CONTRACT, CONSTRUCTION SPECIFICATIONS, 10 STATE STANDARDS AND AMENDMENTS
 THERETO
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO AND MAINTENANCE AND PROTECTION OF THE EXISTING UTILITIES AND STRUCTURES.
- 8. THE CONTRACTOR SHALL KEEP ALL EXCAVATIONS FREE FROM WATER OR OTHER LIQUIDS DURING THE PROGRESS OF THE WORK. HE SHALL PROVIDE AND KEEP IN OPERATION SUCH PUMPS, DRAINS, DAMS, DITCHING, ETC., AS MAY BE NECESSARY TO KEEP THE EXCAVATIONS DRY AND FREE FROM WATER OR OTHER LIQUIDS. DEWATERING OPERATIONS FOR ALL UTILITY EXCAVATIONS SHALL BE CAPABLE OF MAINTAINING DRY WORKING CONDITIONS WITH NO RISK OF PAVEMENT LOSS OR COLLAPSE OF ANY PROPERTY DUE TO EXCESSIVE WATER AND TRENCH INSTABILITY. WHEN SUCH CONDITIONS DO ARISE DURING UTILITY CONSTRUCTION, THE CONTRACTOR SHALL CEASE EXCAVATION AND TAKE ACTION TO STABILIZE THE UTILITY TRENCH. ARTESIAN'S INSPECTOR MAY REQUIRE WELL POINTS TO BE INSTALLED BEFORE EXCAVATION MAY PROCEED. THE CONTRACTOR IS RESPONSIBLE FOR LICENSING AND PUMPING PERMITS ASSOCIATED WITH THE WELL-POINT DEWATERING. INCLUDE THE COSTS FOR WELL POINT DEWATERING AND PERMITTING IN THE INSTALLATION OF MAINS ON THE BID PROPOSAL FORM.
- 9.CONNECTION TO THE EXIS<mark>TIN</mark>G WATER SYSTEM SHALL BE MADE ONLY AFTER THE NEW WATER SYSTEM HAS BEEN INSTALLED, TESTED, AND APPROVED BY THE ARTESIAN WATER INSPECTOR.
- 10.CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF EXISTING UTILITIES AT PROPOSED CROSSINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES AND PROPOSED MODIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARTESIAN WATER COMPANY INSPECTOR AT LEAST ONE WEEK PRIOR TO THE PLANNED COMMENCEMENT OF CONSTRUCTION.
- 11. TOPOGRAPHY, PROPERTY BOUNDARIES AND EASEMENTS SHOWN ON THESE PLANS WERE PROVIDED BY FIELD SURVEYS PERFORMED BY DELDOT OR ITS CONSULTANT AND ARE FOR INFORMATIONAL PURPOSES ONLY.
- 12.COORDINATES SHOWN ON THESE DRAWINGS REFER TO THE DELAWARE STATE PLANE COORDINATE SYSTEM NAD 83. ELEVATIONS SHOWN ARE REFERRED TO NAVD 88.
- 13.THIS DRAWING DOES NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE DELAWARE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION STANDARDS, AND SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, REGARDLESS OF ANY INPUT FROM THE OWNER.
- 14.THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE PROPER OWNER AND COORDINATING THE SUPPORT OF ANY UTILITY POLE THAT NEEDS TO BE SUPPORTED DURING THE PIPELINE INSTALLATION. THE LOCATION OF EXISTING AND PROPOSED UTILITY POLES ARE SHOWN ON THE PLANS AND LOCATIONS REQUIRING SUPPORT SHOULD BE APPARENT. THE COST FOR SUPPORTING UTILITY POLES SHALL BE INCLUDED IN THE LUMP SUM BID.

ARTESIAN WATER COMPANY NOTES

- 1. DEPTH OF THE PROPOSED WATER MAIN SHALL BE A MINIMUM OF 42" FROM FINISHED GRADE TO TOP OF PIPE, INCLUDING SERVICES UNLESS NOTED OTHERWISE.
- 2. EXISTING GRADES ARE NOT TO BE CHANGED.
- 3. 18" VERTICAL CLEARANCE BETWEEN ALL UTILITIES IS TO BE MAINTAINED UNLESS NOTED OTHERWISE.
- 4. 10' HORIZONTAL SEPARATION IS TO BE MAINTAINED BETWEEN EXISTING AND PROPOSED SANITARY SEWER.
- 5. REMOVE ALL VALVE BOXES FROM ABANDONED MAINS AND ALL STOP BOXES FROM ABANDONED SERVICES AFTER THE NEW MAIN HAS BEEN PUT INTO SERVICE.
- 6. ALL ABANDONED FIRE HYDRANTS SHALL BE REMOVED AND RETURNED TO ARTESIAN'S NEWARK, DELAWARE YARD BY THE CONTRACTOR.
- 7. ALL CURB BOXES SHALL BE SET ON THE R.O.W. LINE UNLESS OTHERWISE NOTED.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL LONG SERVICES USING ALL METHODS SHORT OF DIRECTIONAL BORE AND OPEN CUT AT THE CONTRACTORS COST.
- 9. ALL SERVICES THAT TIE OVER TO A NEW OR EXISTING METER PIT SHALL BE PERFORMED BY THE CONTRACTOR.
- 10. TEMPORARY SIDEWALK HAS TO BE PLACED, WITH BLACKTOP OR COLD PATCH, WHERE EXISTING SIDEWALK IS REMOVED.
- 11. NO MORE THAN 500' CAN BE REMOVED AT ONCE WITHOUT PUTTING IN THE TEMPORARY SIDEWALK.
- 12. HYDRO-SEEDING AND SIFTED TOPSOIL SHALL BE USED FOR THE RESTORATION IN GRASS AREAS/ LAWNS.

 GRASS SEED SPECIFICATIONS:
 - FULL SUMSHADE MIX:
 - 30% MONTAULK TALL FESCUE
 - 20% PERENNIAL RYEGRASS
 - 20% ANNUAL RYEGRASS
 - 20% CREEPING RED FESCUE 10% KENTUCKY BLUEGRASS
- 13. ALL BUSHES AND SHRUBS NOT BEING DISTURBED BY THE DELDOT CONTRACT SHALL BE REPLANTED BY THE CONTRACTOR.
- 14. TEMPORARY 2" BLOW OFFS ARE REQUIRED AT ALL TIE-INS, ON THE DEAD END SIDE OF THE WATER VALVE. THE CONTRACTOR IS TO REMOVE BLOW OFF AFTER FLUSHING IS COMPLETE.
- 15. VACUUM EXCAVATION METHOD IS TO BE USED FOR TEST HOLES WHERE EXISTING UTILITIES CROSS PROPOSED WATER FACILITIES UNDER IMPERVIOUS AREAS.
- 16. EXACT LOCATIONS OF FIRE HYDRANTS ARE TO BE DETERMINED BY THE ARTESIAN WATER INSPECTOR IN THE FIELD.
- 17. ALL RESTORATION SHALL BE TO DeIDOT'S UTILITIES DESIGN MANUAL AND STANDARD CONSTRUCTION DETAILS.
- 18. CONCRETE SIDEWALKS THAT GO THROUGH DRIVEWAYS SHALL BE 6" THICK WITH 6" OF GABC. ALL REMIANING CONCRETE SIDEWALKS SHALL BE 4" THICK WITH 4" OF GABC. CONCRETE CURB RAMPS SHALL BE 6" THICK WITH 4" OF GABC.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT THE STATE INSPECTOR FOR STATE RELEASED CONCRETE, HOTMIX

 AND ETC.

UTILITY MAINTENANCE OF TRAFFIC NOTES

- 1. THROUGH AND LEFT TURN LANE CLOSURES WILL NOT BE ALLOWED ON WEEKDAYS FROM 6:00 AM TO 8:00 PM AND RIGHT TURN LANE CLOSURES WILL NOT BE ALLOWED ON WEEKDAYS FROM 6:00 AM TO 9:00 AM AND FROM 3:00 PM TO 6:00 PM UNLESS NOTED OTHERWISE.
- 2. UTILIZE TA-3 OF THE DELDOT MUTCD AS NECESSARY FOR WORK ON SHOULDER OR OUTSIDE OF THE ROADWAY.
- AT THE END OF THE WORKDAY CONTRACTOR SHALL PAVE OR BACK FILL AND COVER WITH STEEL PLATES PRIOR TO 3. OPENING ROAD TO TRAFFIC.
- ALL PAVEMENT MARKINGS AFFECTED DURING CONSTRUCTION SHALL BE RESTORED IN-KIND.
- PEDESTRIANS SHALL BE ACCOMMODATED AT ALL TIMES UTILIZING TA-28 AND OR/TA-29 OF THE DELAWARE MUTCD. IF A
- 5. VIABLE PEDESTRIAN DETOUR OR TEMPORARY CROSSING SCHEME IS UNAVAILABLE, THE CONTRACTOR SHALL SEEK
 APPROVAL BY THE ENGINEER TO UTILIZE FLAGGERS TO SAFELY LEAD PEDESTRIANS THROUGH THE WORK ZONE. AT THE
 END OF EACH WORK DAY A VIABLE ROUTE FOR PEDESTRIANS MUST BE AVAILABLE USING ACCEPTABLE PEDESTRIAN
 ROUTE MATERIALS.
- 6. CONTRACTOR SHALL MAINTAIN ACCESS TO CROSSLAND BOULEVARD AT ALL TIMES. WHEN CLOSING ONE ENTRANCE; A FLAGGER SHALL CONTROL VEHICLE ENTRANCE AND EXIT THROUGH THE OTHER ENTRANCE/EXIT LANE. THE NEIGHBORHOOD SHALL BE INFORMED ABOUT UPCOMING CONSTRUCTION AT LEAST 3 DAYS PRIOR TO CLOSING AN EXIT/ENTRANCE.

D	ELA	WARE Transportation	
DEPARTMENT	OF	TRANSPORTATIO	N

ADDENDUMS / REVISIONS

NOT TO SCALE

ST. GEORGES
MAINTENANCE YARD
ENTRANCE IMPROVEMENTS

CONTRACT
BRIDGE NO. N/A

T201780102

COUNTY

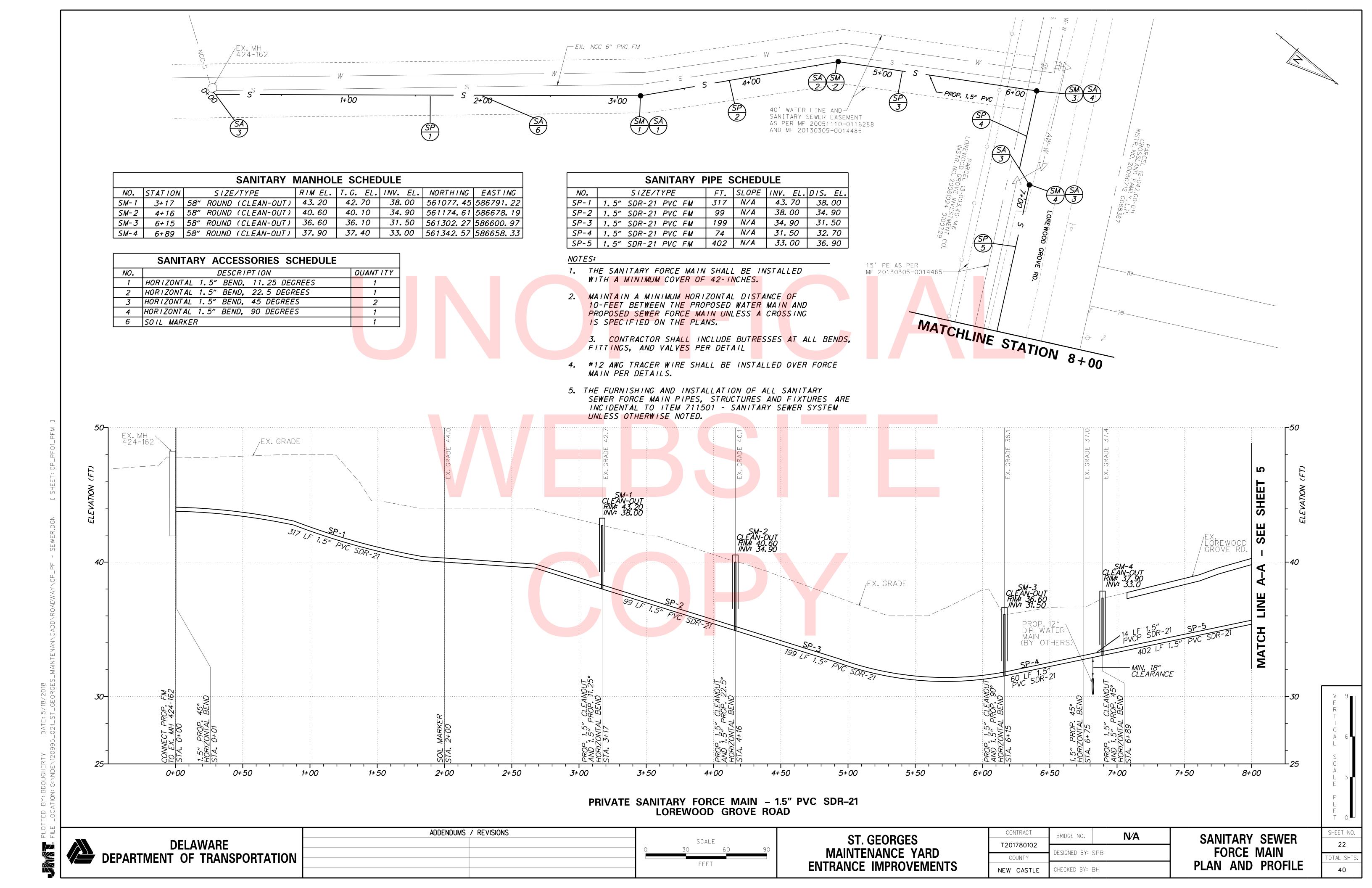
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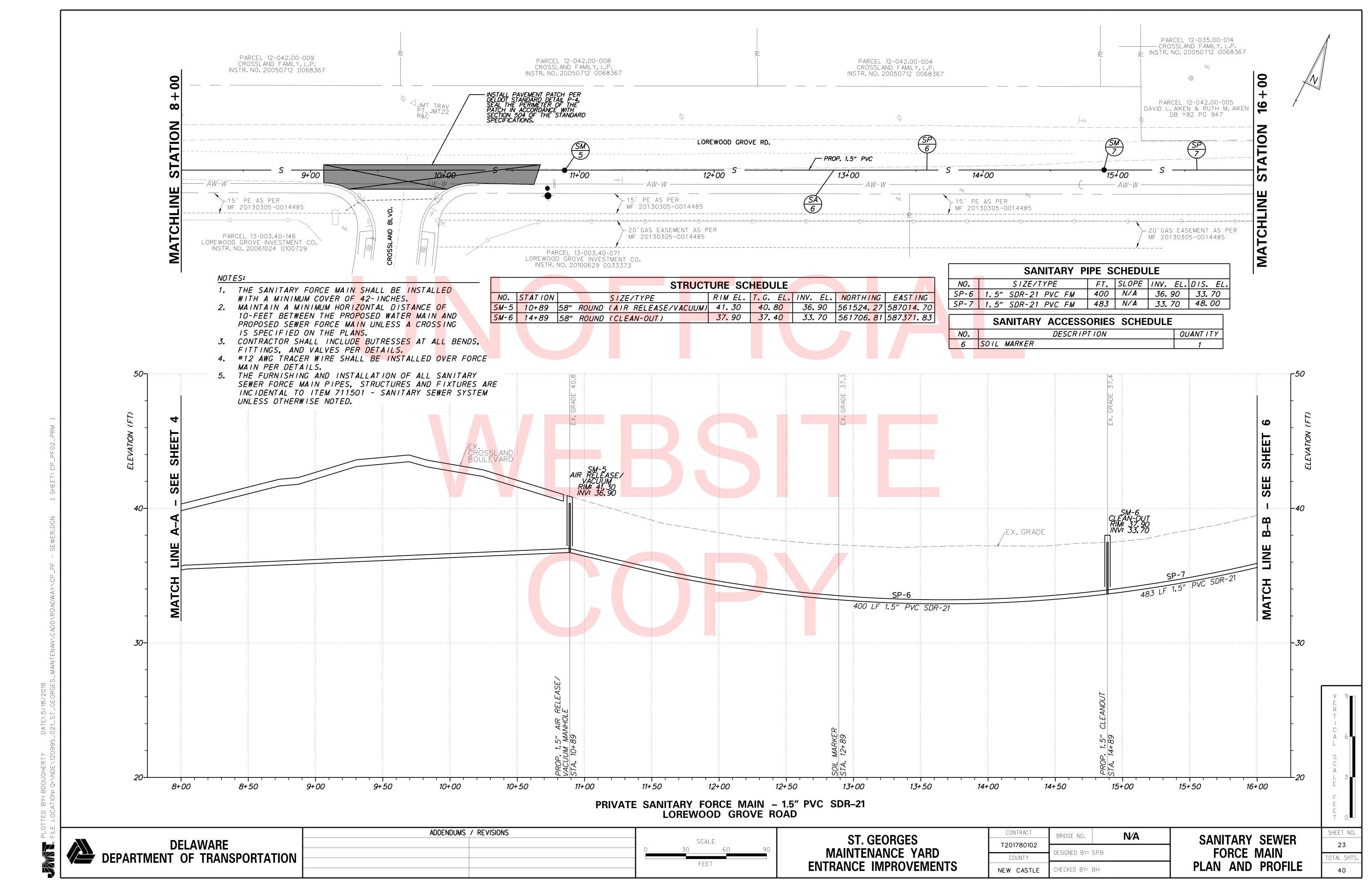
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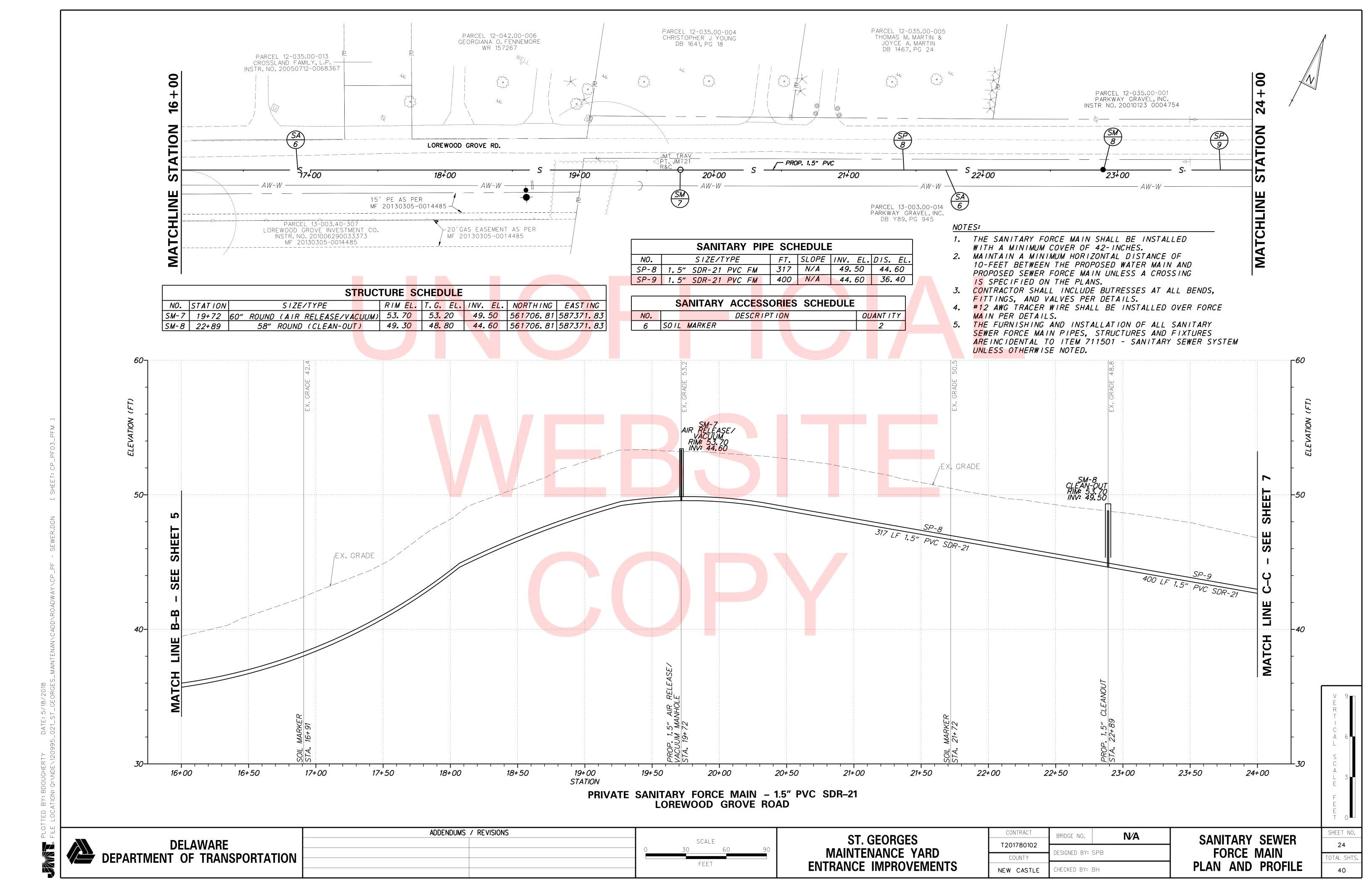
SEWER AND WATER GENERAL NOTES

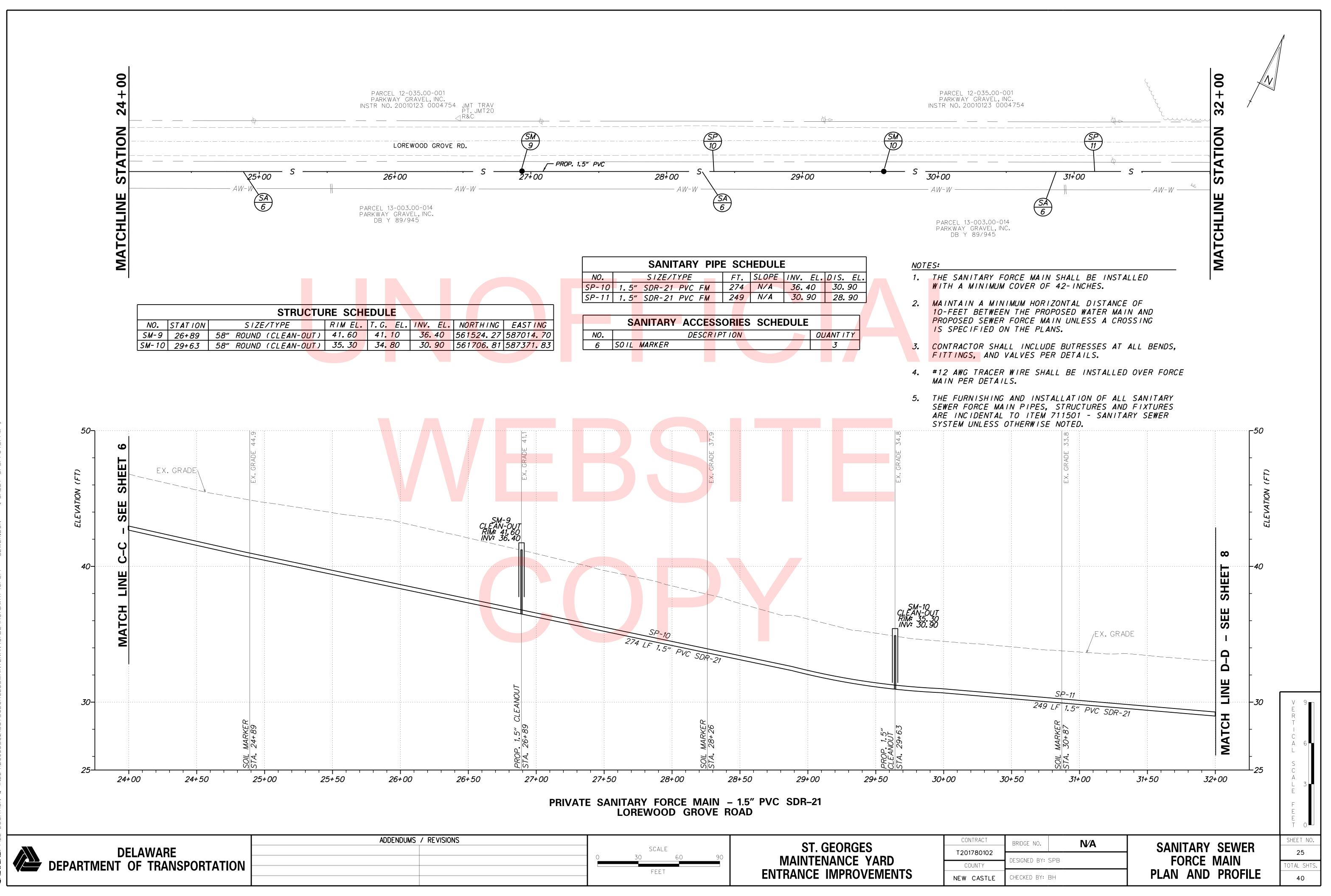
21 TOTAL SHTS. 40

SHEET NO



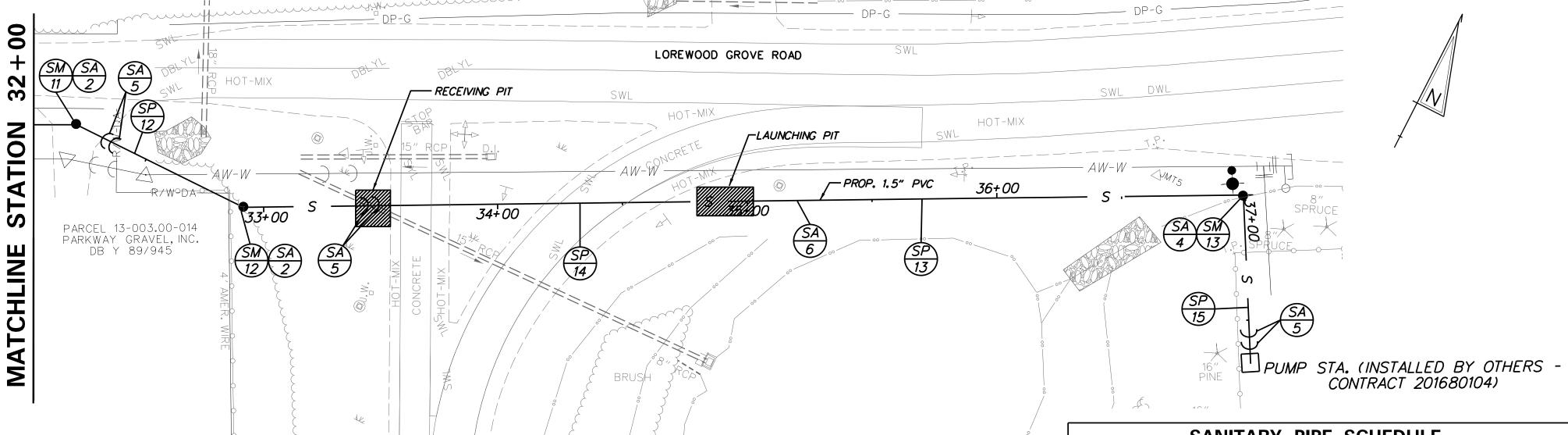






PLOTTED

- 1. THE SANITARY FORCE MAIN SHALL BE INSTALLED WITH A MINIMUM COVER OF 42-INCHES.
- 2. MAINTAIN A MINIMUM HORIZONTAL DISTANCE OF 10-FEET BETWEEN THE PROPOSED WATER MAIN AND PROPOSED SEWER FORCE MAIN UNLESS A CROSSING IS SPECIFIED ON THE PLANS.
- 3. CONTRACTOR SHALL INCLUDE BUTRESSES AT ALL BENDS, FITTINGS, AND VALVES PER DETAILS.
- 4. #12 AWG TRACER WIRE SHALL BE INSTALLED OVER FORCE MAIN PER DETAILS.
- 5. THE FURNISHING AND INSTALLATION OF ALL SANITARY SEWER FORCE MAIN PIPES, STRUCTURES AND FIXTURES ARE INCIDENTAL TO ITEM 711501 - SANITARY SEWER SYSTEM UNLESS OTHERWISE NOTED.

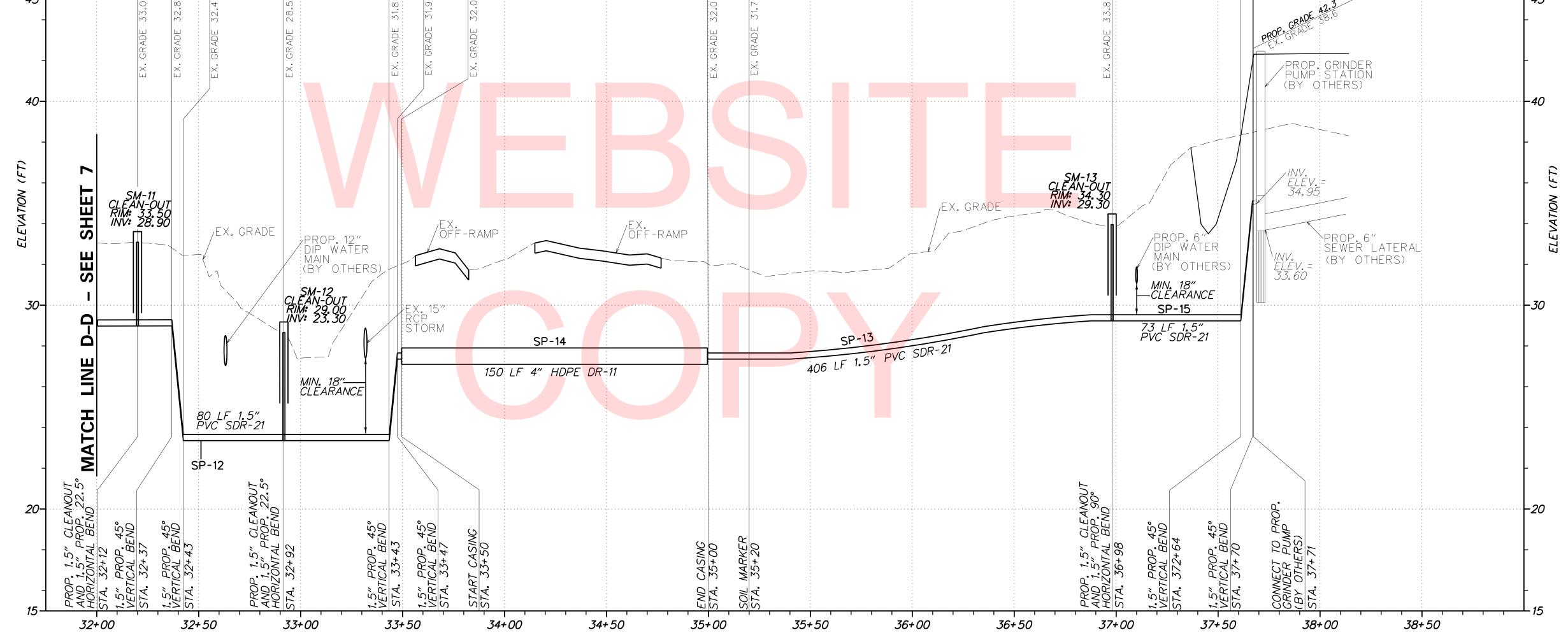


	SANITARY ACCESSOR <mark>IES</mark> SCHED <mark>UL</mark> E	
NO.	DESCRIPT ION	OUANTITY
2	HORIZONTAL 1.5" BEND, 22.5 DEGREES	2
4	HORIZONTAL 1.5" BEND, 90 DEGREES	1
5	VERTICAL 1.5" BEND, 45 DEGREES	6
6	SOIL MARKER	1

	STRUCTURE SCHEDULE												
NO	. STATION		SIZE	/TYPE		RIM EL.	T. G.	EL.	INV.	EL.	NORTHING		EAST ING
SM-	11 32+12	58"	ROUND	(CLEAN-OU	T)	<i>33. 50</i>	<i>33</i> .	00	28.	90	<i>562493. 24</i>	5	<i>88912. 30</i>
SM-	12 32+92	<i>58</i> "	ROUND	(CLEAN-OU	T)	29.00	28.	<i>50</i>	23.	<i>30</i>	<i>562494.18</i>	5	88987 <mark>. 0</mark> 5
SM-	13 36+98	58"	R <mark>OU</mark> ND	(CLEAN-OU	T)	<i>34. 30</i>	<i>33</i> .	80	29.	<i>30</i>	<i>562</i> 690. 19	5	89341.73

	SANITARY PIPE	SCH	IEDULE		
NO.	S I ZE/TYPE	FT.	SLOPE	INV. EL.	DIS. EL.
SP-12	1.5" SDR-21 PVC FM	80	N/A	<i>28.</i> 90	<i>23. 30</i>
SP-13	1.5" SDR-21 PVC FM	406	N/A	<i>23. 30</i>	<i>29. 30</i>
SP-14*	4" DR-11 HDPE CASING	150	N/A	27.19	N/A
SP-15	1.5" SDR-21 PVC FM	73	N/A	29. 30	34.90

*NOTE: FURNISHING AND INSTALLATION, INCLUDING JACKING AND BORING, OF 4" HDPE CASING TO BE PAID UNDER ITEM 711045 - INSTALLING SANITARY SEWER (FORCE MAIN) BY BORING, PE, 4".



PRIVATE SANITARY FORCE MAIN - 1.5" PVC SDR-21 LOREWOOD GROVE ROAD

DELAWARE DEPARTMENT OF TRANSPORTATION ADDENDUMS / REVISIONS FEET

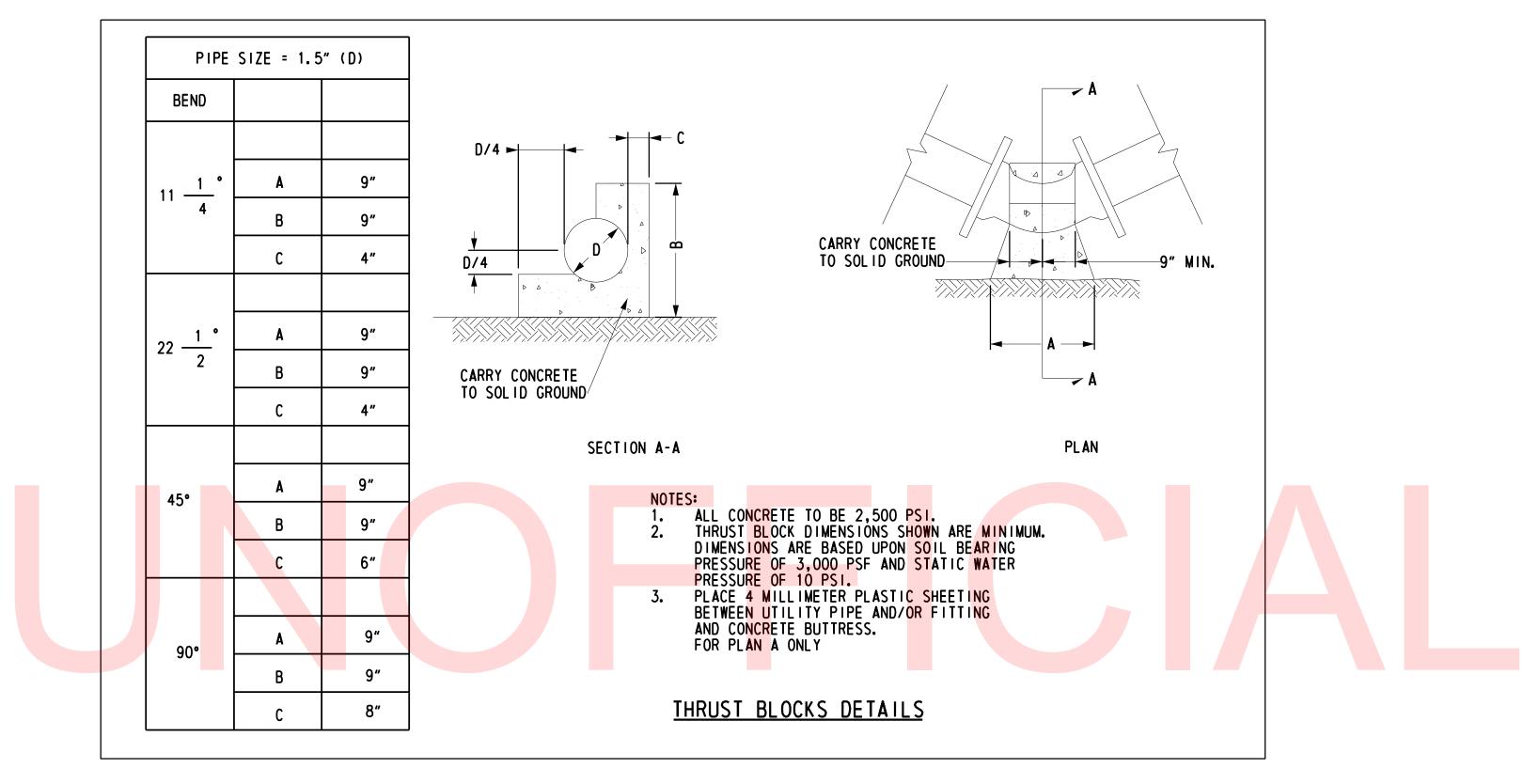
ST. GEORGES **MAINTENANCE YARD ENTRANCE IMPROVEMENTS**

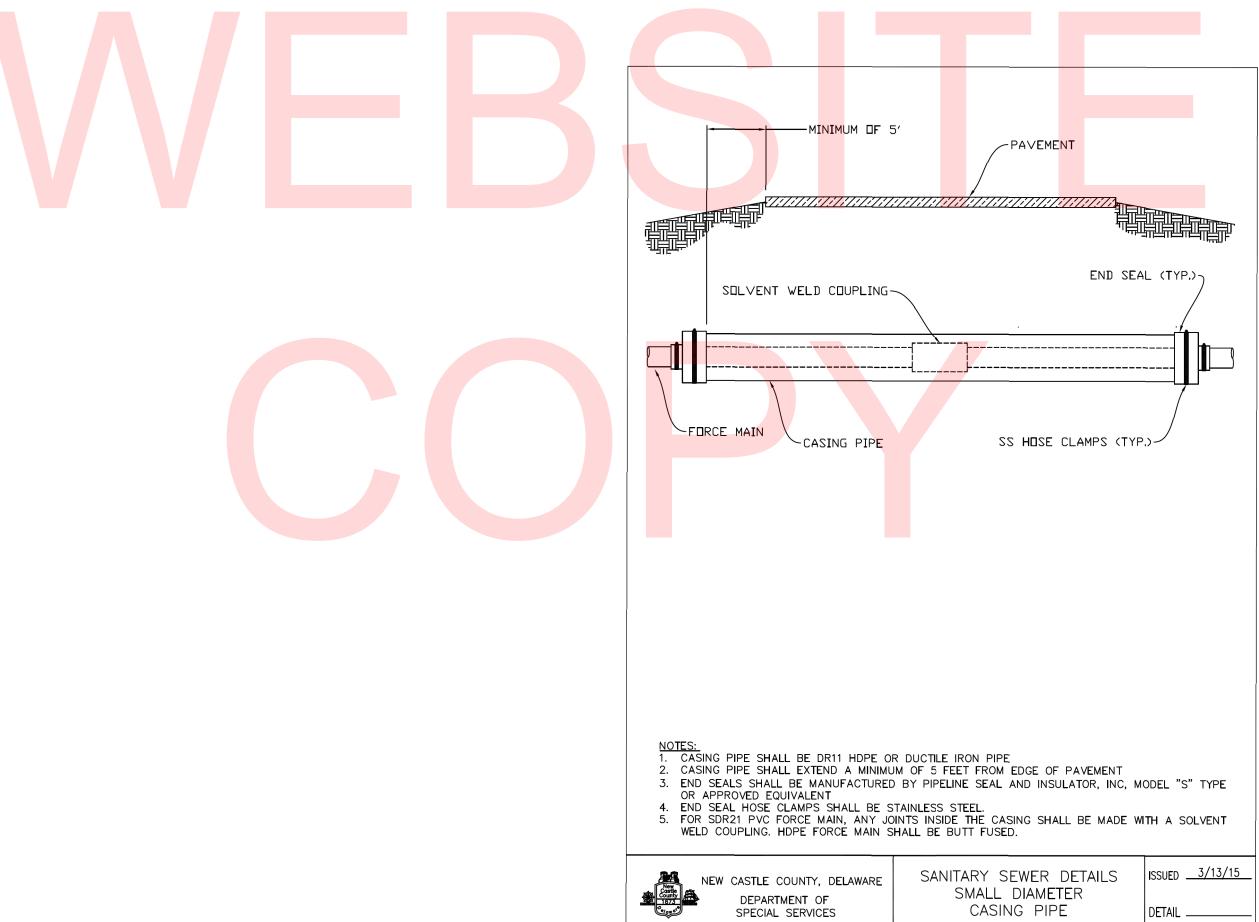
N/A BRIDGE NO. T201780102 DESIGNED BY: SPB COUNTY NEW CASTLE CHECKED BY: BH

SANITARY SEWER FORCE MAIN PLAN AND PROFILE

26 OTAL SHTS







DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

NOT TO SCALE

ST. GEORGES
MAINTENANCE YARD
ENTRANCE IMPROVEMENTS

CONTRACT
BRIDGE NO.

T201780102

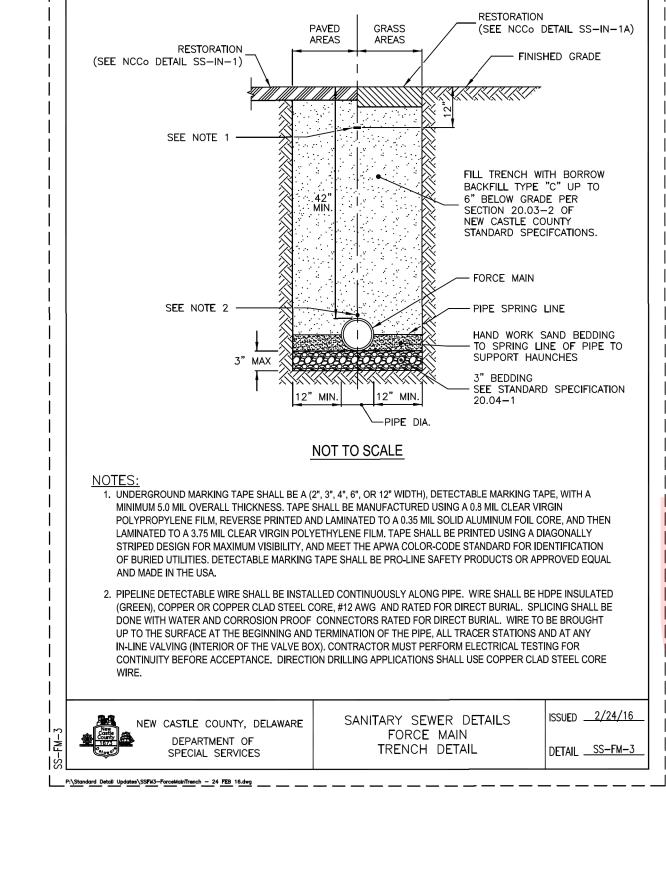
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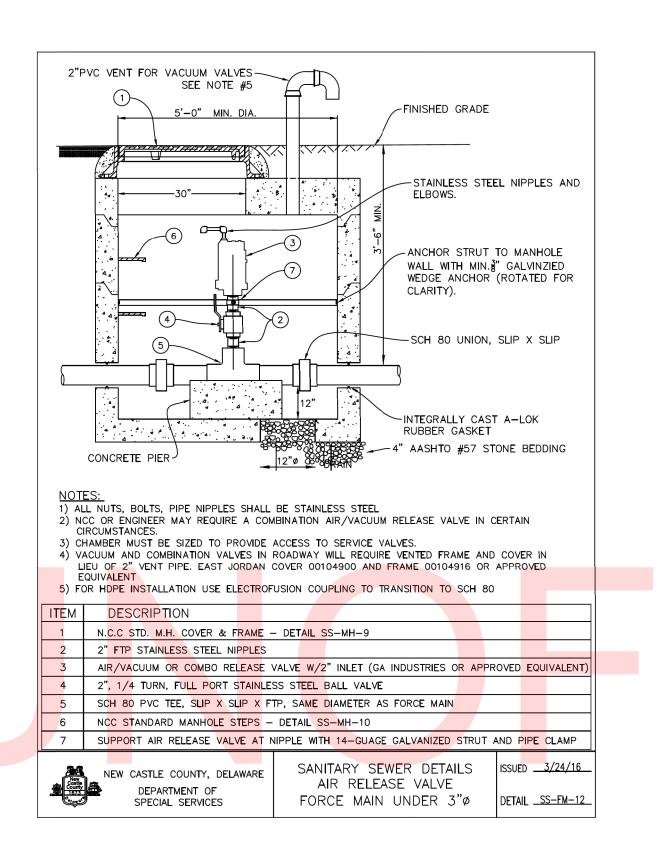
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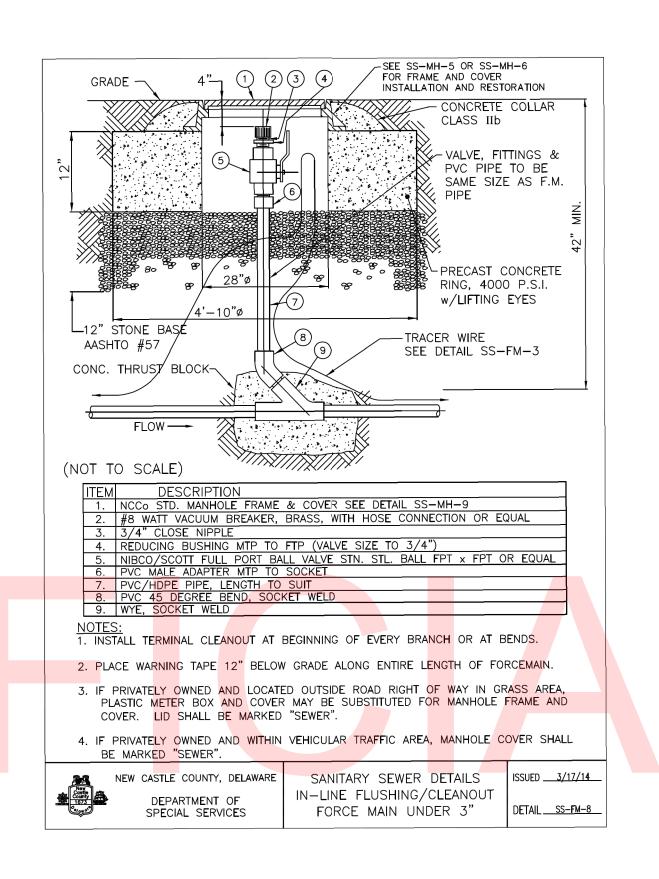
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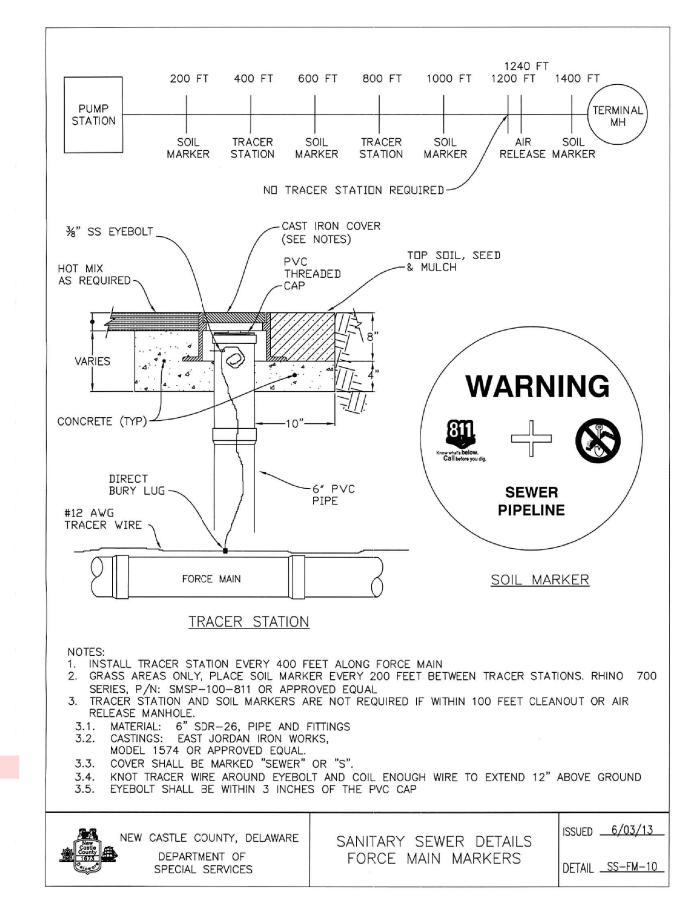
SANITARY SEWER DETAILS

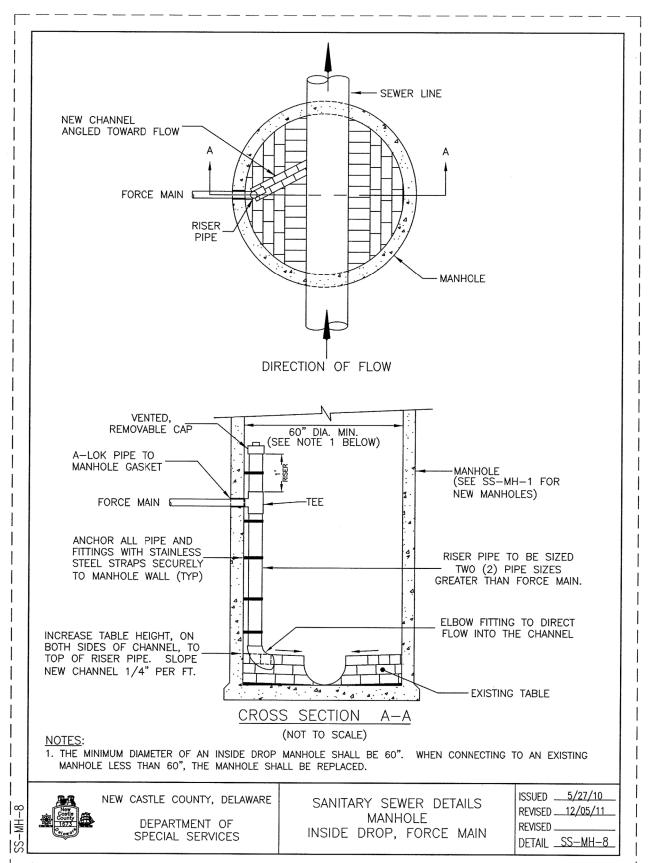
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TOTAL SHTS

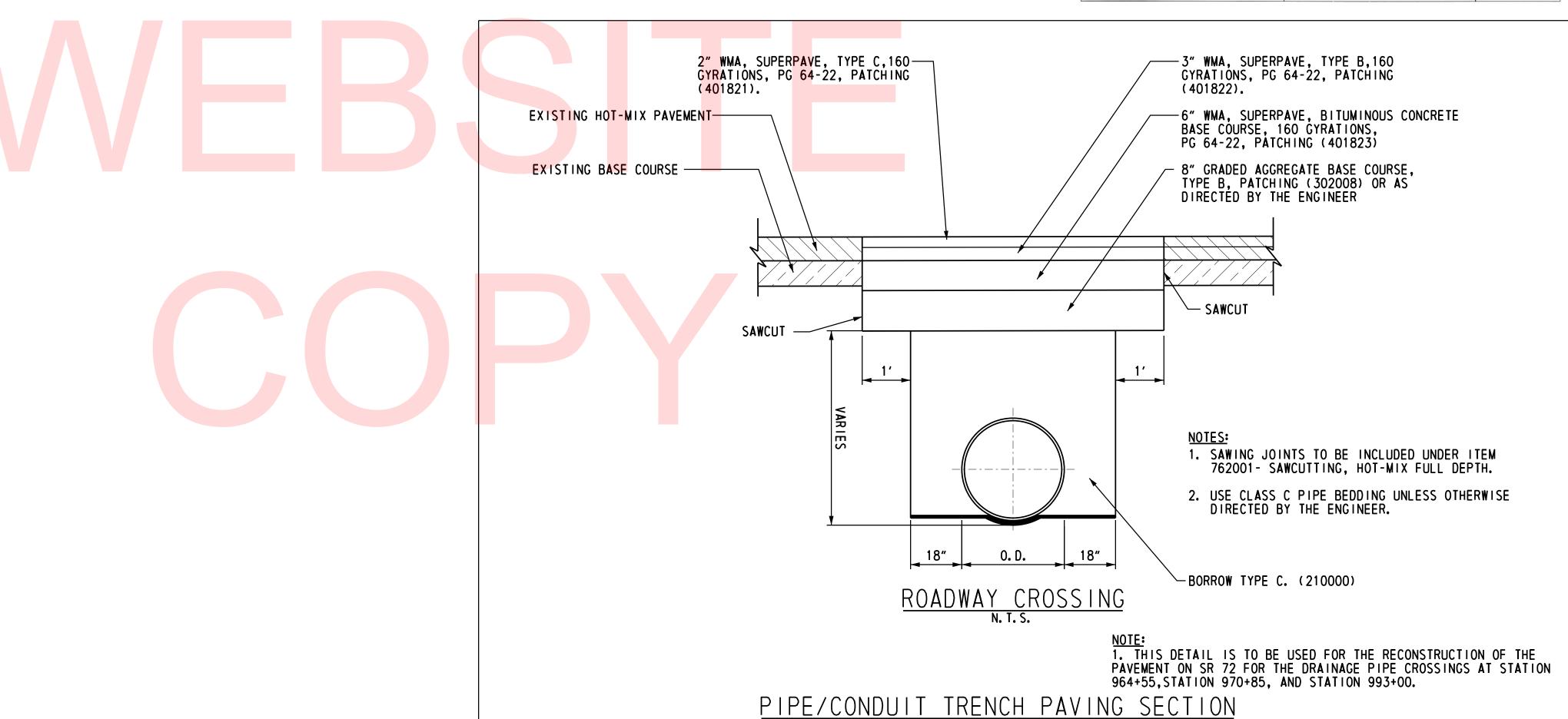


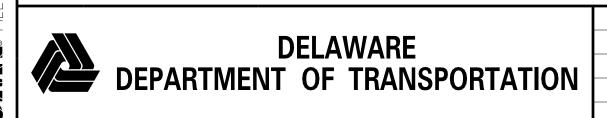












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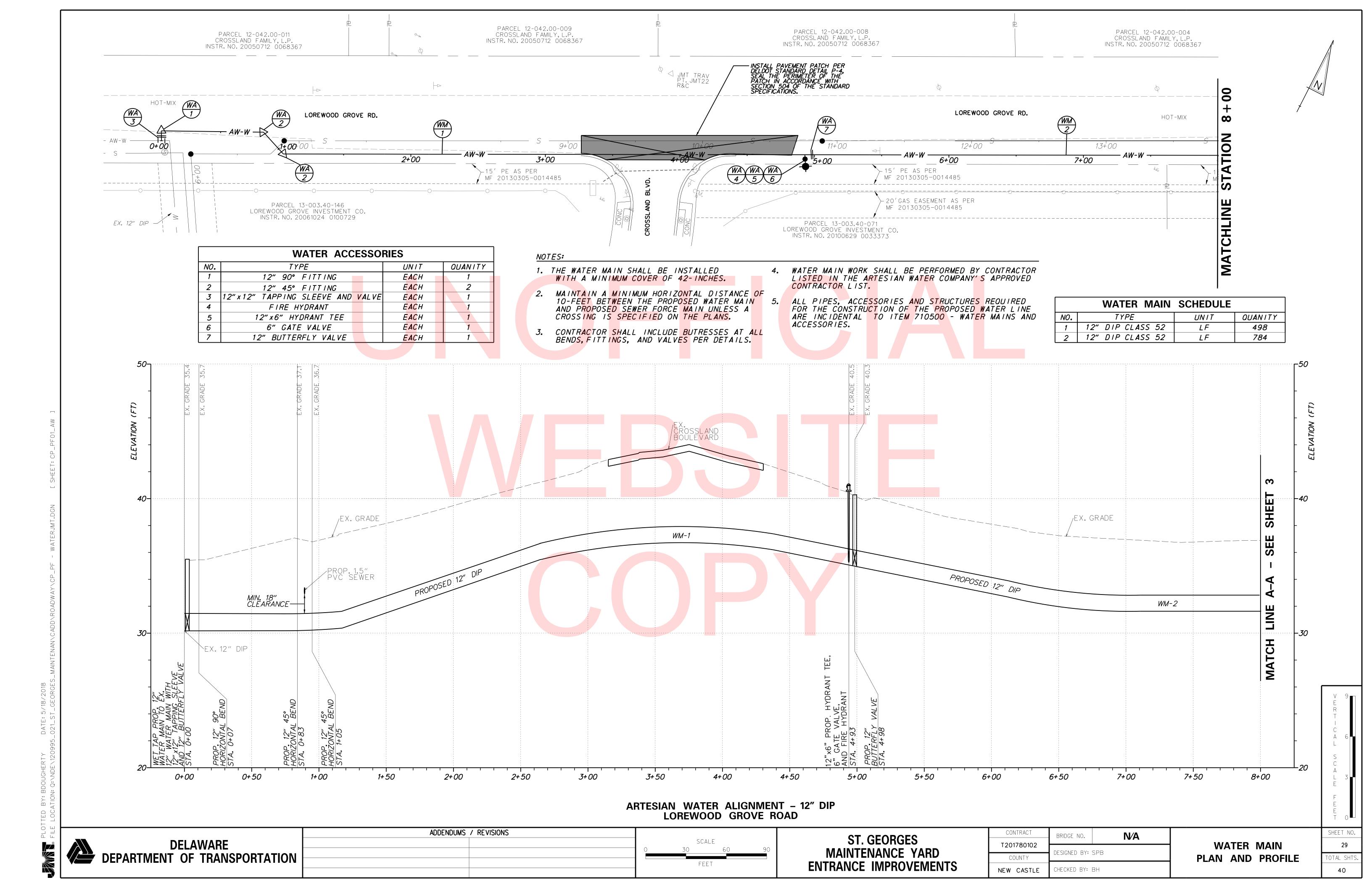
ADDENDUMS / REVISIONS

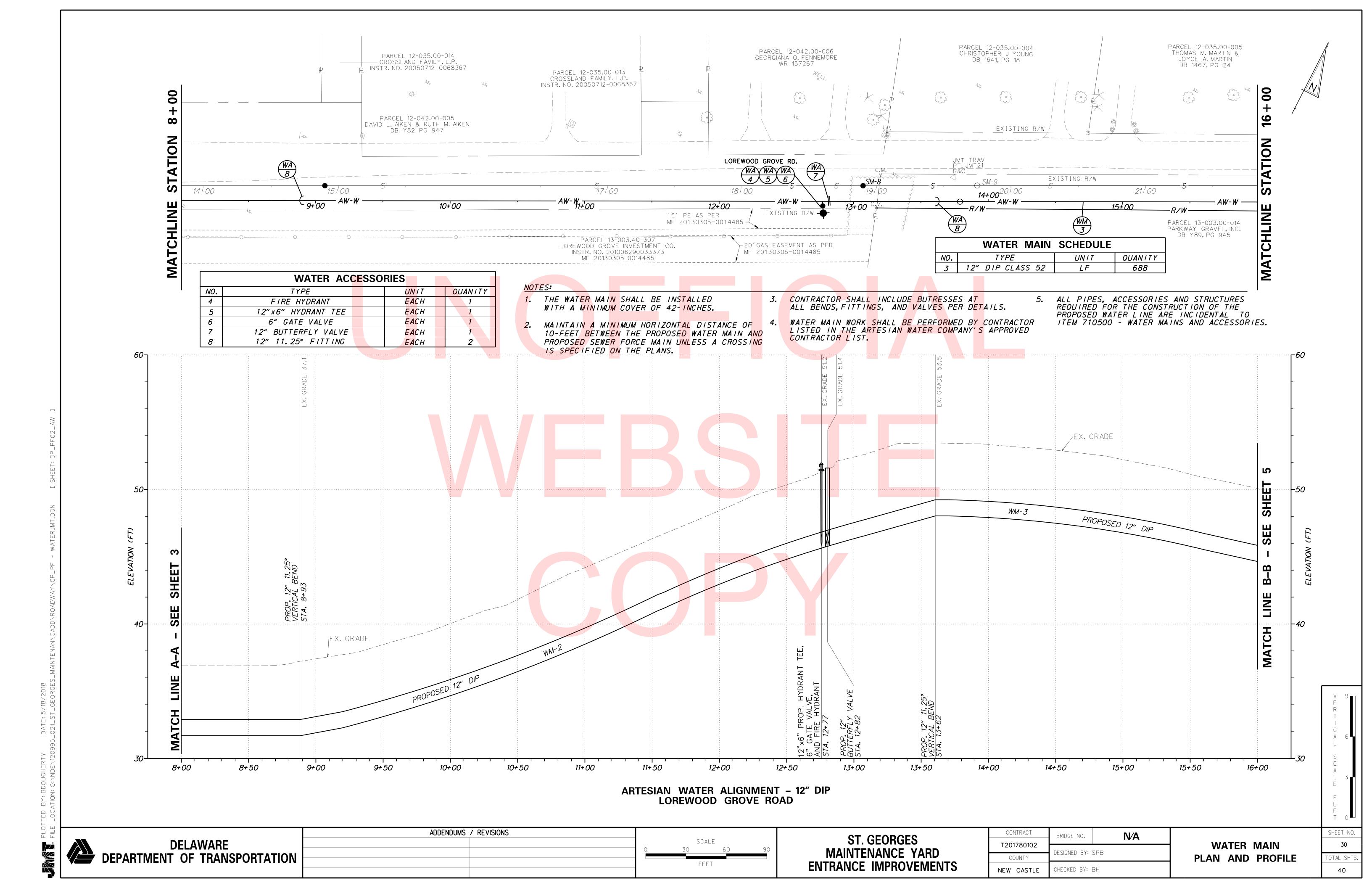
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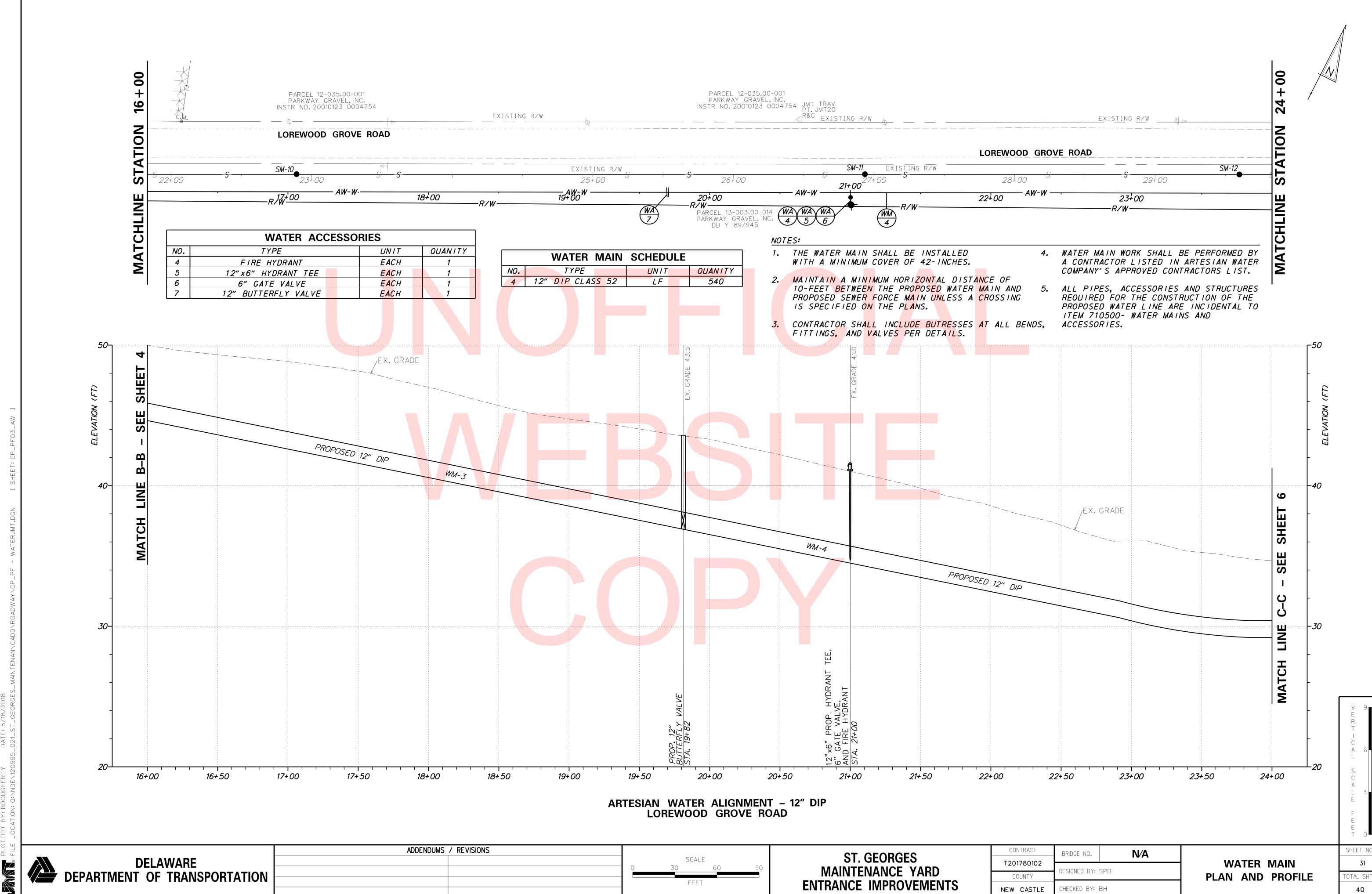
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SANITARY SEWER DETAILS

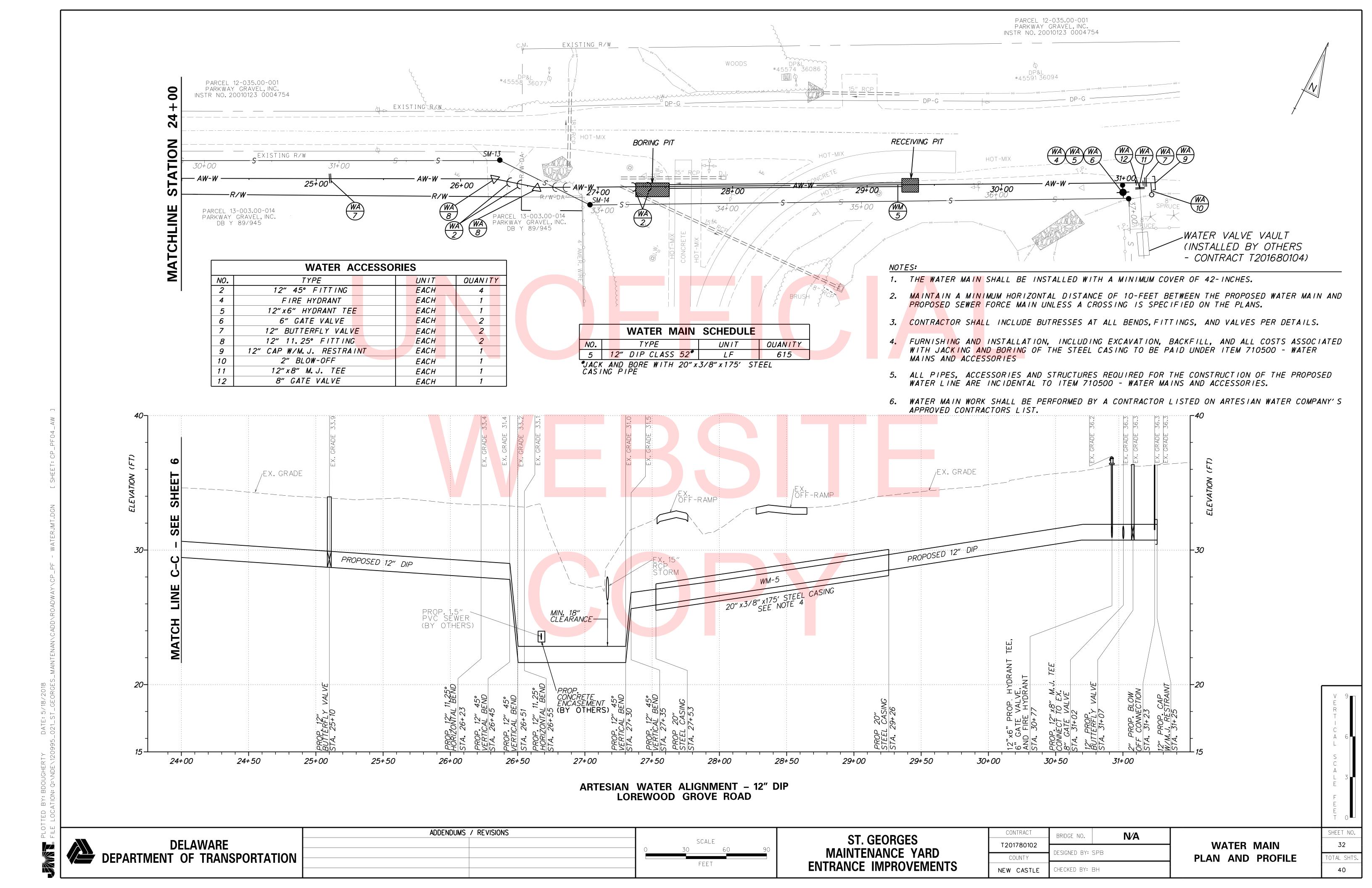
28 OTAL SHTS 40

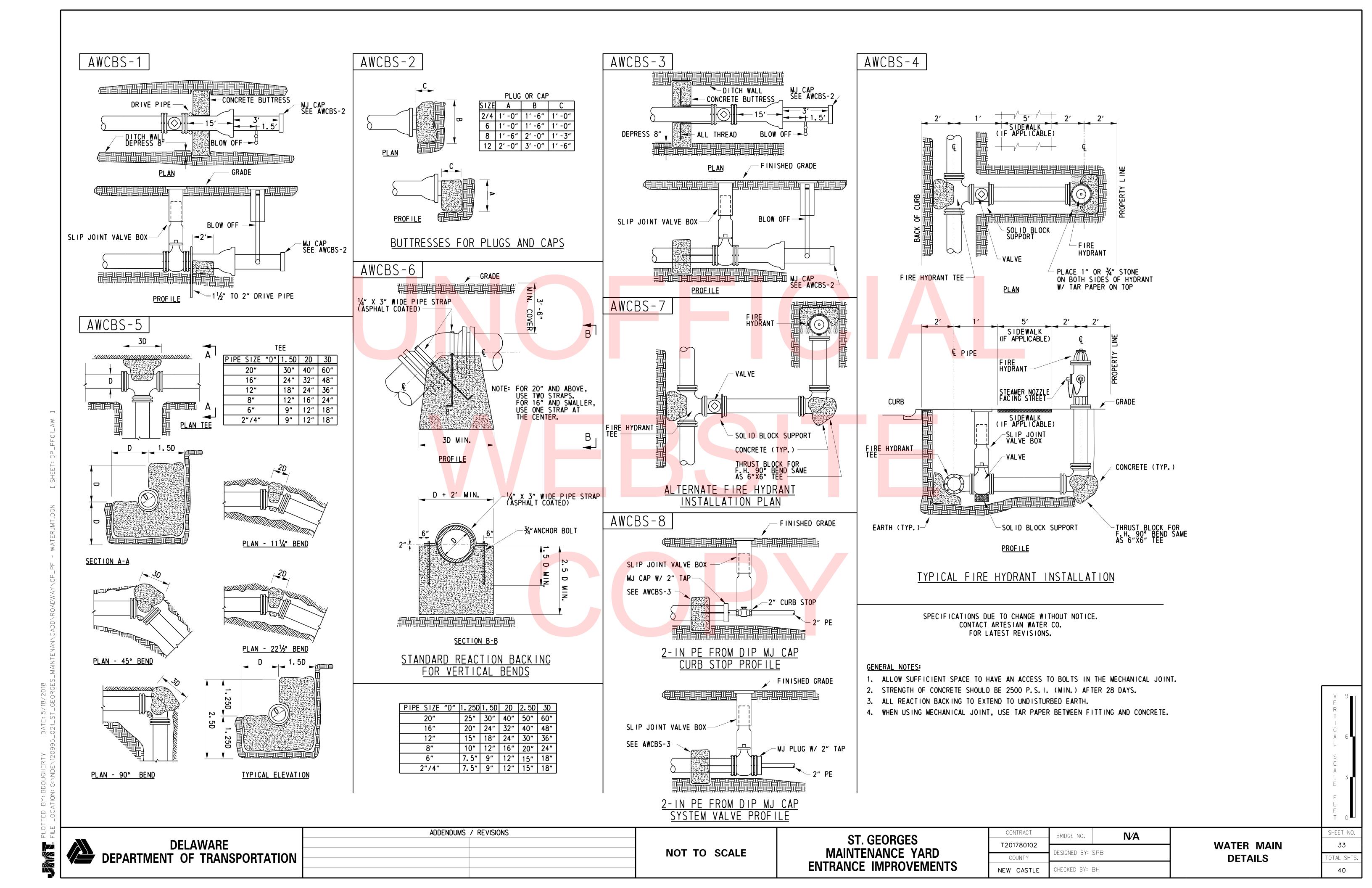


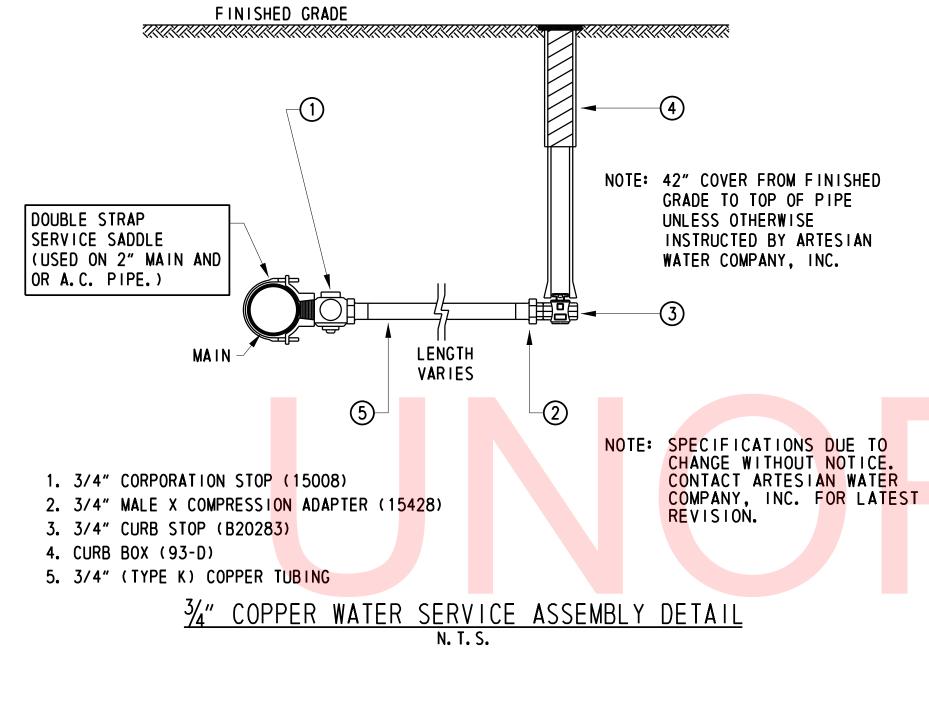


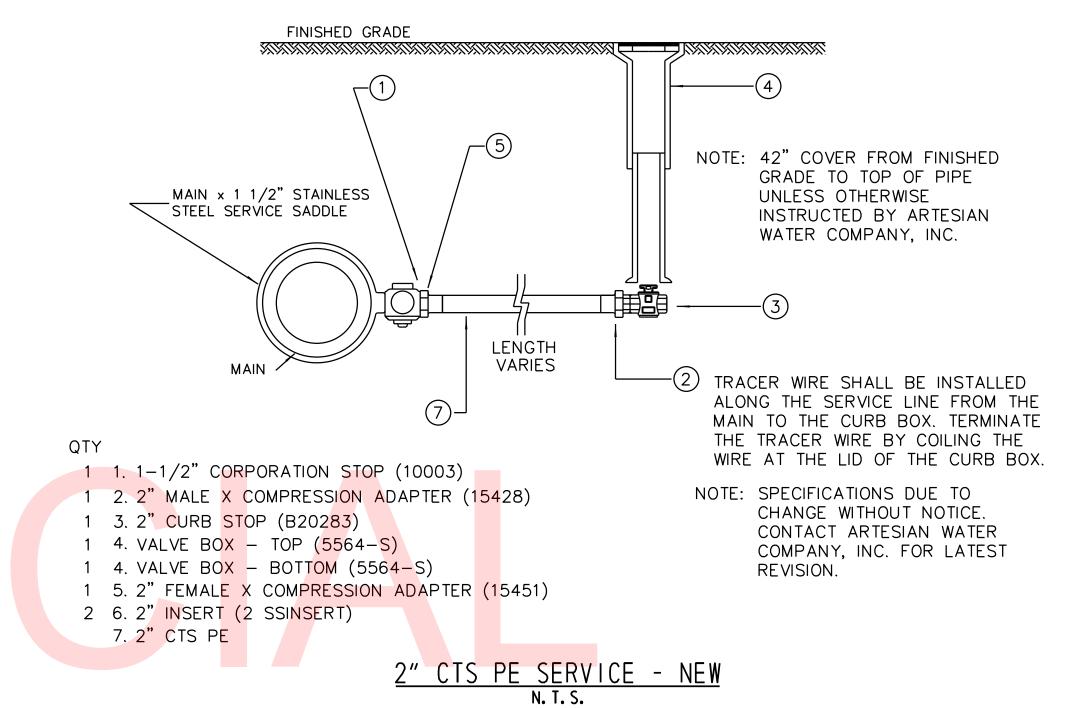


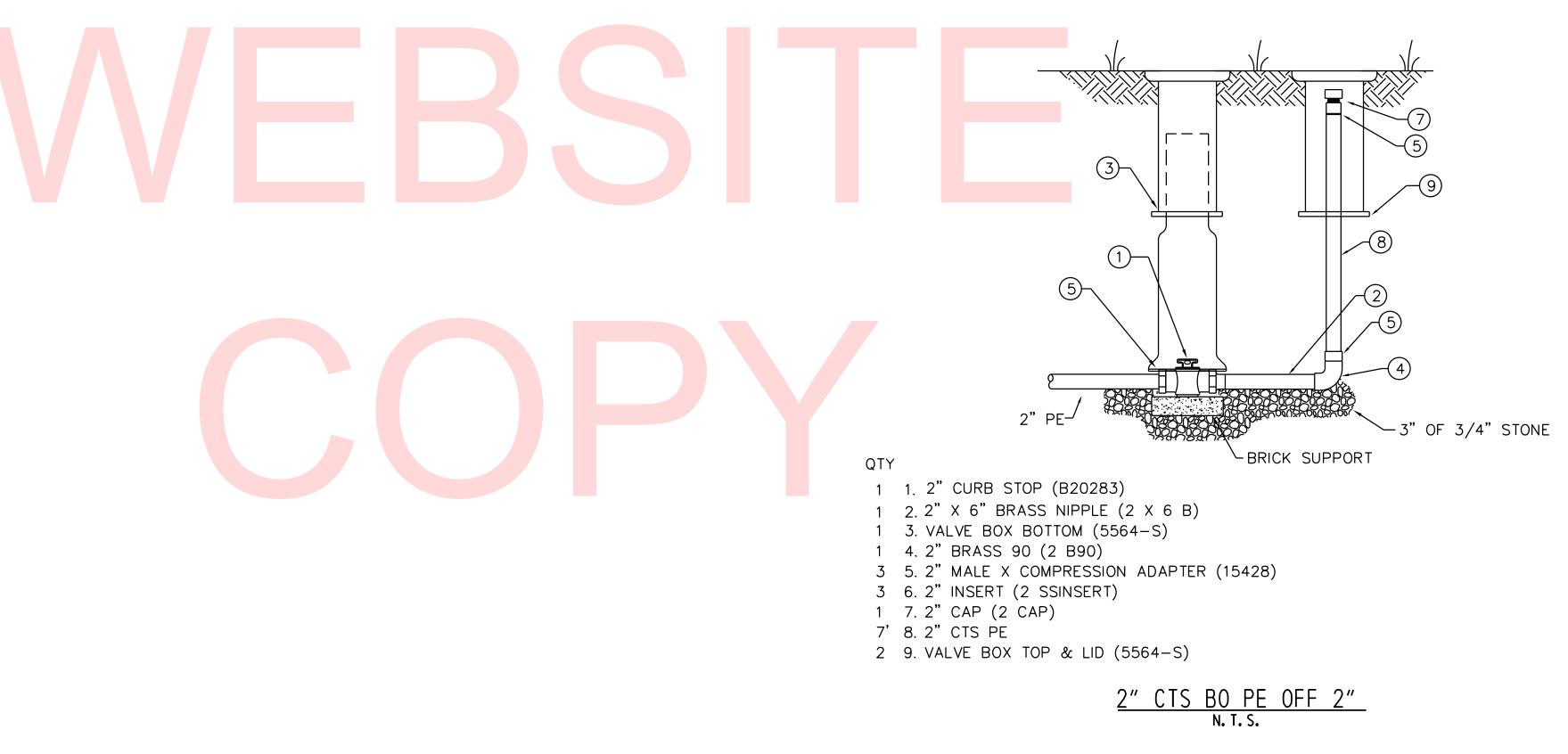
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DELAWARE DEPARTMENT OF TRANSPORTATION

NOT TO SCALE

ADDENDUMS / REVISIONS

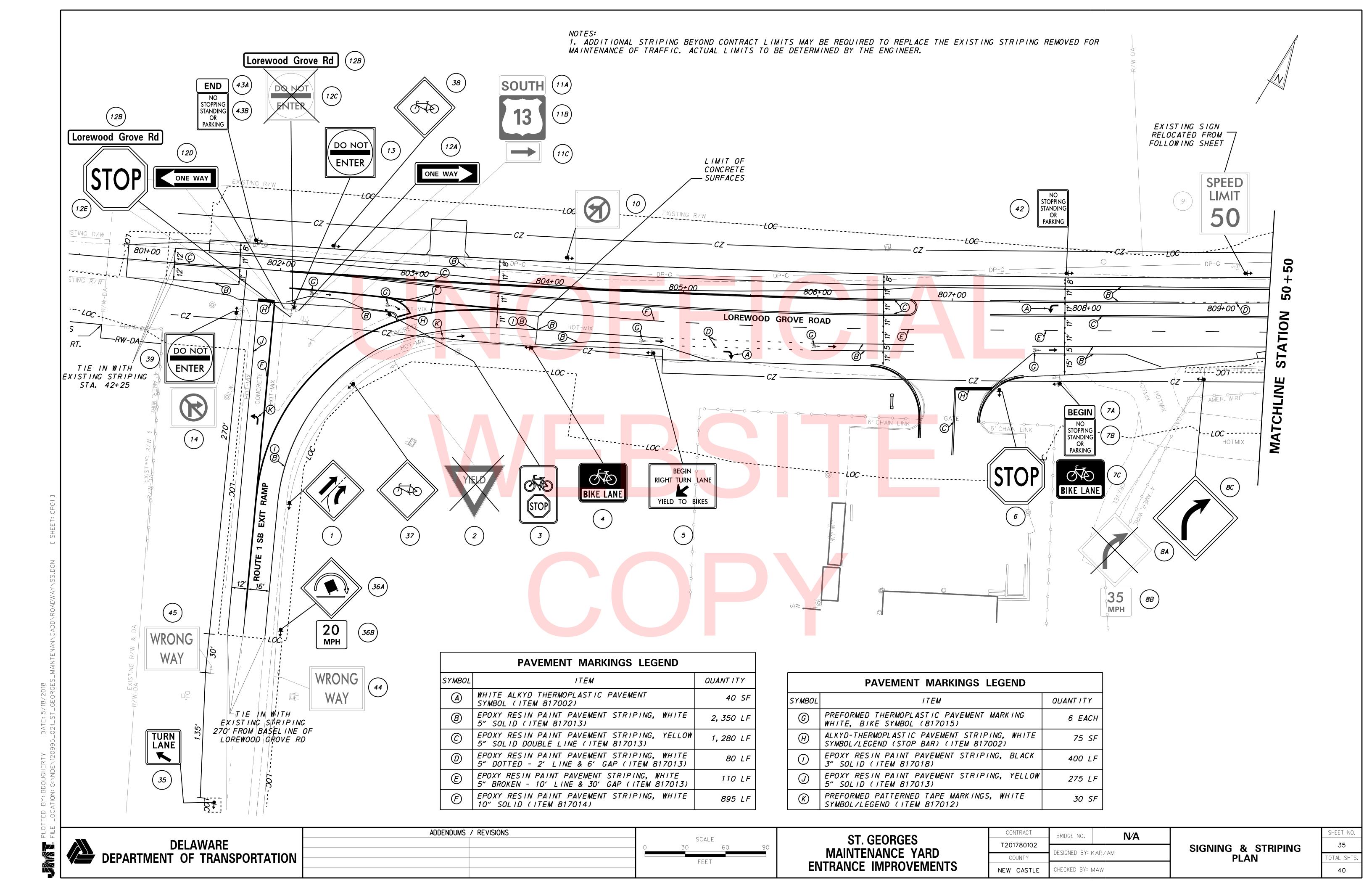
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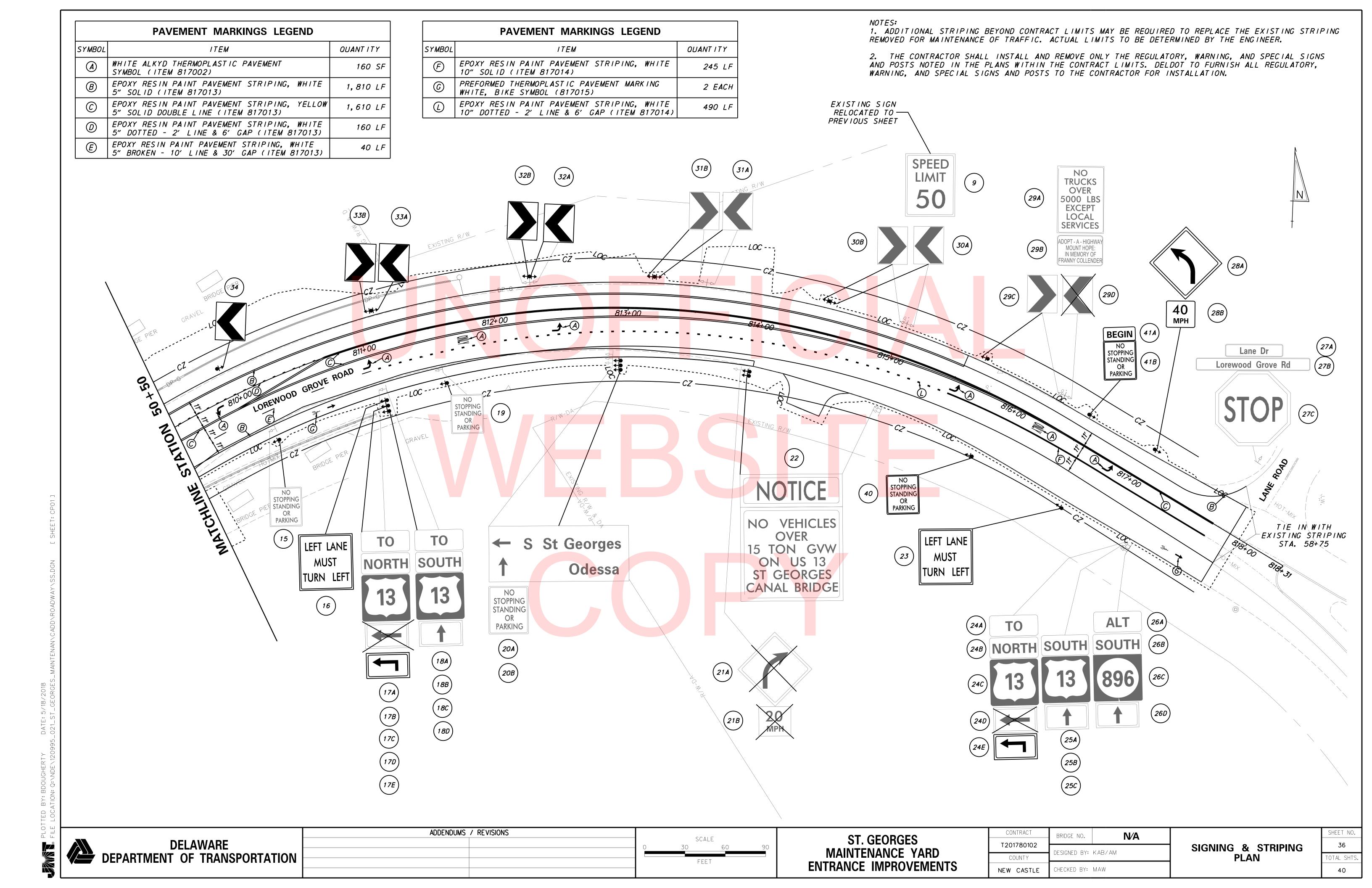
N/A BRIDGE NO. T201780102 DESIGNED BY: SPB COUNTY NEW CASTLE CHECKED BY: BH

WATER MAIN DETAILS

34

OTAL SHTS 40





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The color The	7 I		DESIGNATIO	QTY.	DESCRIPTION			AREA			٥١	OF TRAFFIC SIGN(S) ON MULTI		INSTALLATION		4" HOLE, 0-6"	4" HOLE, >6"	REMARKS
The color of the	NO.	IDENTIFIEF	N N					I		REMOVE	INSTALL	SIGN	T ,	INSTALL				•	
Column C		1	/	1				9.0	NEW		1	DISFOSITION			SOIL	1			
Second S	94 SS-01	3	SR1-16-DE	1	STOP (shared-use path only)	24"	42"		NEW	1	1					1			
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100 20 100	4 SS-01	6	R1-1(36)	1	STOP	36"	36"	9.0	NEW		1					1			
1	23 SS-01	,,,			(1 1 /					1	1				SOIL	1			
15 15 15 15 15 15 15 15	44 SS-01			1				3.0		1	1								
Column C	91 SS-01	8B	W13-1P-35(18)		ADVISORY SPEED (35 MPH) 18x18	18"	18"		REPOSITION	1	1				SOIL	1			
1	19 SS-01 2 SS-01	8C 9	_ ` '	1	` ., ,			9.0		1	1 1		-		SOIL	1			REPOSITIONED FROM SHEET SS-02
10 10 10 10 10 10 10 10	10 SS-01		R3-2(24)	1		_	24"		REPOSITION	1	1					1			
Section Column	84 SS-01	11B	M1-4(24)	1	US ROUTE (2 - Digit Sign) - 24x24	24"	24"		REMAIN										"13"
1. 1. 1. 1. 1. 1. 1. 1.				1				3.0		1	1								
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The content of the				1						1	1				SOII	1			
100 10 10 10 10 10 10 1	05 SS-01		R3-1(24)	1	RIGHT TURN PROHIBITION (Symbol) - 24x24	24"	24"	0.3	REMAIN		ı					'			
Column C				1	·			6.3		1	1					1			
Section 1	34 SS-02	17A	M4-5(24)	1	TO - 24x12	24"	12"		REPOSITION	1	1								
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10 10 10 10 10 10 10 10	05 SS-02		M6-1_L(21)	1	DIRECTIONAL ARROW (Left) - 21x15	21"	15"	2.2	REMOVE	1	1								
Section Company Comp	34 SS-02	18A	M4-5(24)	1	TO - 24x12	24"	12"	2.2	REPOSITION	1	1								
Section Column	14 SS-02 84 SS-02			1						1	1 1				SOIL	1			"13"
Section 1	19 SS-02	18D	M6-3(21)	1	DIRECTIONAL ARROW (Up) - 21x15	21"	15"		REPOSITION	1	1				2011				
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10 10 10 10 10 10 10 10				1	· · · ·				DEDOCITION	1	1	REPOSITION	14.2	14.2	SOIL	3			
9 C 2	8 SS-02	21A	W1-2_R(30)	1	CURVE (Right) - 30x30	30"	30"		REMOVE	1	'								
Second Column Second Colum				1	i i i i i i i i i i i i i i i i i i i				REMOVE	1		DEDOOITION	000		2011				"NOTICE. NO VEHICLES OVER 15 TON GVW
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Sect Sect Process Control	5 SS-02	24D	M6-1_L(21)	1	DIRECTIONAL ARROW (Left) - 21x15	21"	15"		REMOVE	1									
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\$50 \$50 M-500 1 \$747F DOLTS - 104 \$30 \$27 \$75 \$14 \$10 \$1	23 SS-02	26A	M4-1a(24)	1	ALT - 24x12	24"	12"		REMAIN										
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SPOC 298 D143-DE 1 ADDPT A HOMAW 2 AT 18* PENAN				1							1				SOIL	1			
ASSECT A	SS-02	29A	R12-SPECIAL	1	WEIGHT LIMIT	24"	36"		REMAIN										
SSIDE 290 W1-818 1 CHEMPON ALKOMENT-18-24 18" 22" SEROSTION 1 1	72 SS-02	29B	D14-3-DE	1	ADOPT A HIGHWAY	24"	18"		REMAIN										
\$\$-02 \$36 W1-419 1 CHEWRON ALGMENT - 18/24 18 24 PREPOSITION 1 1 1 SOLU			` '	1						1	1				SOIL	1			COLLENDER
\$8-02 398 W1-818 1 CHEVRON ALIGNMENT -18-24 18" 24" REPOSITION 1 1 1	0 SS-02 0 SS-02		` '	1						1	1			+	SOIL	1	1		
SS-02 318 WI-9(15) 1	0 SS-02	30B	W1-8(18)	1	CHEVRON ALIGNMENT - 18x24	18"	24"		REPOSITION	1	1					'			
\$\$02 328 W1-8(16) 1 CHEWRON ALGOMENT -18024 18" 24" 3.0 RENEW 1 1 SSOL 1 CHEWRON ALGOMENT -18024 18" 24" 3.0 NEW 1 1 SSOL 1 CHEWRON ALGOMENT -18024 18" 24" 3.0 NEW 1 1 SSOL 1 CHEWRON ALGOMENT -18024 18" 24" 3.0 NEW 1 1 SSOL 1 CHEWRON ALGOMENT -18024 18" 24" 3.0 NEW 1 1 SSOL 1 CHEWRON ALGOMENT -18024 18" 24" 3.0 NEW 1 1 SSOL 1 CHEWRON ALGOMENT -18024 18" 24" 3.0 NEW 1 1 SSOL 1 CHEWRON ALGOMENT -18024 18" 24" 3.0 NEW 1 1 SSOL 1 CHEWRON ALGOMENT -18024 18" 18" 24" 3.0 NEW 1 1 SSOL 1 CHEWRON ALGOMENT -18024 18" 18" 23 NEW 1 1 SSOL 1 CHEWRON ALGOMENT -18024 18" 18" 23 NEW 1 1 SSOL 1 CHEWRON ALGOMENT -18024 18" 18" 23 NEW 1 1 SSOL 1 CHEWRON ALGOMENT -18024 18" 18" 23 NEW 1 1 SSOL 1 CHEWRON ALGOMENT -18024 18" 18" 23 NEW 1 1 SSOL 1 CHEWRON ALGOMENT -18024 18" 18" 23 NEW 1 1 SSOL 1 CHEWRON ALGOMENT -18024 18" 18" 18" 23 NEW 1 1 SSOL 1 CHEWRON ALGOMENT -18024 18" 18" 18" 23 NEW 1 1 SSOL 1 CHEWRON ALGOMENT -18024 18" 18" 18" 18" 18" 18" 18" 18" 18" 18"	0 SS-02	31B	W1-8(18)	1	CHEVRON ALIGNMENT - 18x24	18"	24"		REPOSITION	1	1				SOIL	1			
SS-02 33A W1-8/18 1	0 SS-02 0 SS-02			1						1 1	1 1			+	SOIL	1			
\$\$-02 94 W1-8/15) 1 CHEVRO ALGNMENT -18/24 18' 24' 3.0 NEW 1 1 SOIL 1 SOIL 1 SSOIL 1 S	0 SS-02	33A	W1-8(18)	1	CHEVRON ALIGNMENT - 18x24	18"	24"	3.0	NEW		1				SOIL	1			
\$\$-02 35 R3-20-DE 1 TURN LANE 18" 18" 2.3 NEW 1 SOIL 1 SOIL 1 SOIL 1 SS-01 36A W1-173(b) 1 TRUCK ROLLOVER - 36x6 8 36" 36" 36" 36" 9.0 NEW 1 SS-01 36B W13-IP-20(18) 1 ADVISORY SPEED (20 MPH) 18x18 18" 18" 2.3 NEW 1 SS-01 37 W1-17(30) 1 BICYCLE (Symbol) - 30x30 30" 30" 6.3 NEW 1 SS-01 38 W1-17(30) 1 BICYCLE (Symbol) - 30x30 30" 30" 6.3 NEW 1 SS-01 39 R5-13(0) 1 DO NOT ENTER - 30x30 30" 30" 6.3 NEW 1 SS-01 38 R7-40E(12) 1 NO STOPPINS, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 SS-02 40 R7-40E(12) 1 NO STOPPINS, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 SS-02 428 R7-40E(12) 1 NO STOPPINS, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 SS-01 42 R7-40E(12) 1 NO STOPPINS, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 SS-01 42 R7-40E(12) 1 NO STOPPINS, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 SS-01 43 R7-2028-DE 1 NO STOPPINS, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 SS-01 43 R7-2028-DE 1 NO STOPPINS, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 SS-01 43 R7-2028-DE 1 NO STOPPINS, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 SS-01 43 R7-2028-DE 1 NO STOPPINS, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 SS-01 43 R7-2028-DE 1 NO STOPPINS, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 SS-01 43 R7-2028-DE 1 NO STOPPINS, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPINS, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPINS, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPINS, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPINS, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPINS, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPINS, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPINS, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPINS, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPINS, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPINS, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPINS, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPINS, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPINS, STANDING	0 SS-02	34	W1-8(18)	1	CHEVRON ALIGNMENT - 18x24	18"	24"	3.0	NEW		1 1			<u> </u>		1			
SS-01 368 W13-1P-20118 1 ADVISORY SPEED (20 MPH) 18x18 18" 18" 2.3 NEW 1 1 1 1 1 1 1 1 1	2 SS-02			1		_					1					1			
SS-01 38	32 SS-01	36B	W13-1P-20(18)	1	ADVISORY SPEED (20 MPH) 18x18	18"	18"	2.3	NEW		1					1			
SS-01 39 R5-1(30) 1 DO NOT ENTER - 30x20 30" 63 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1	4 SS-01	<u> </u>		1			30"				1 1					1 1			
\$\$-02 41A R7-202e-DE 1 BEGIN (plaque - red) 12" 6" 0.5 NEW 1	3 SS-01		R5-1(30)	1	DO NOT ENTER - 30x30	30"	30"	6.3	NEW		1					1			INSTALL ON BACK OF EXISTING SIGN #
SS-02 42B R74-DE[12] 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 NEW 1 NEW 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 N	7 SS-02	41A	R7-202aP-DE	1	BEGIN (plaque - red)	12"	6"	0.5	NEW		1			1		1			
SS-01 43A R7-202aP-DE1 1 END (plaque - red) 12" 6" 0.5 NEW 1 SOIL 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 SOIL 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1 SOIL 1	3 SS-02 3 SS-01				, ,						1 1					1	1		
SS-01 43B R7-4-DE(12) 1 NO STOPPING, STANDING, OR PARKING - 12x18 12" 18" 1.5 NEW 1	8 SS-01	43A	R7-202aP-DE1	1	END (plaque - red)	12"	6"	0.5	NEW		'					1			
SS-01 45 R5-1a(36) 1 WRONG WAY - 36x24 36" 24" REMAIN	2 SS-01	_		1	WRONG WAY - 36x24			1.5			1								
JOB TOTALS 154 34 56 48 48 36 0 0 ADDENDUMS / REVISIONS CONTRACT BRIDGE NO. N/A		45	` '	1		36"													
ADDENDUMS / REVISIONS CONTRACT BRIDGE NO.					PAGE TOTALS			154		34	56		48	48		36	0	0	
ADDENDUMS / REVISIONS CONTRACT BRIDGE NO.					JOB TOTALS			154		34	56		48	48		36	0	0	
CT CENDCEC UNDER NO. IVA								107		5-1	30		10	1					<u></u>
	חרו אי				ADDENDUMS / REVISIONS								S	ST. GEO	RGES			BRIDGE NO.	

PERMANENT SIGN SCHEDULE

DELAWARE DEPARTMENT OF TRANSPORTATION

ST. GEORGES
MAINTENANCE YARD
ENTRANCE IMPROVEMENTS

CONTRACT
BRIDGE NO.

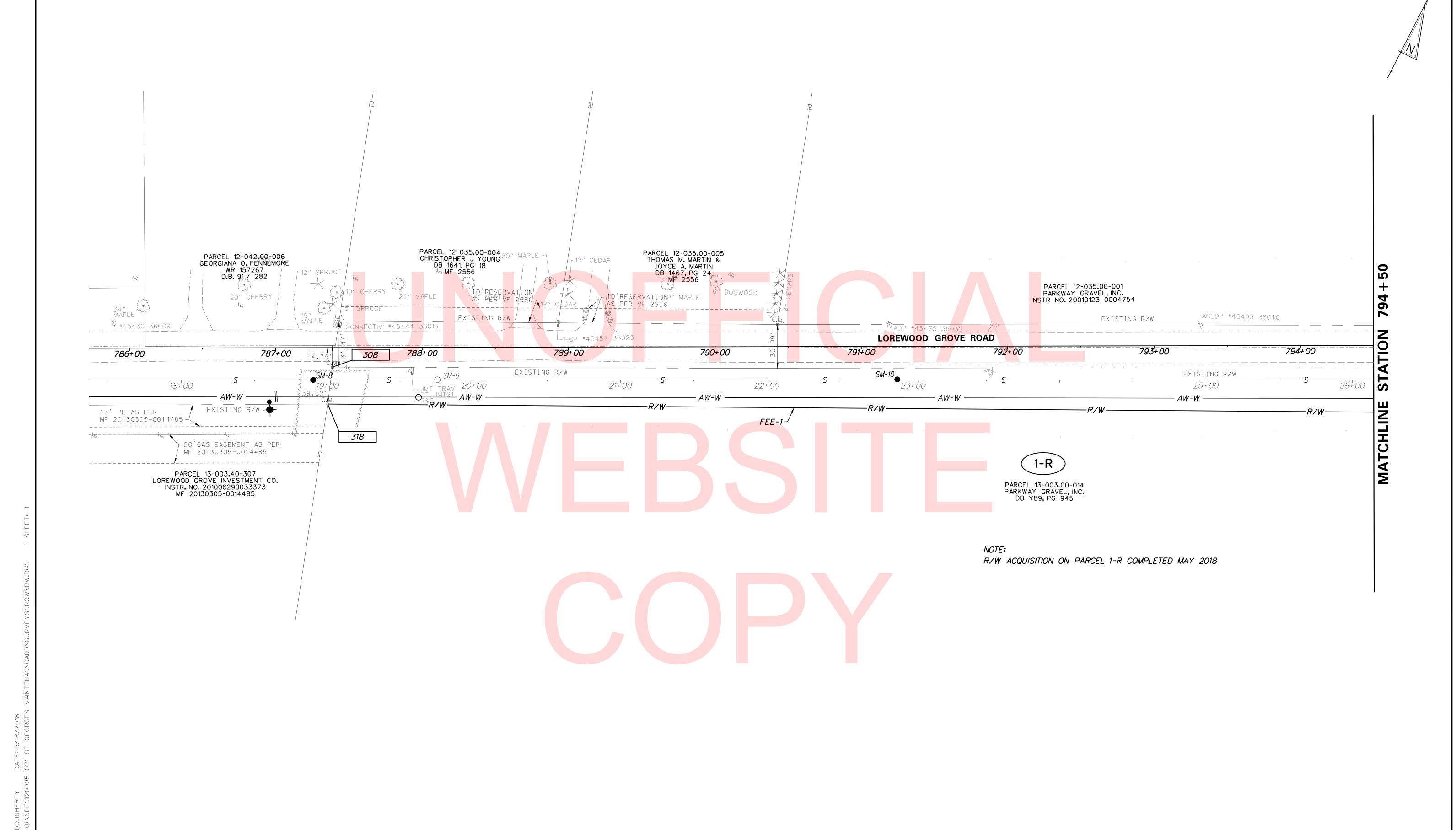
T201780102

COUNTY

DESIGNED BY: KAB/AM

CHECKED BY: MAW

SIGNING & STRIPING PLAN 37
TOTAL SHTS
40



DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE

3 30 60

FEET

ST. GEORGES
MAINTENANCE YARD
ENTRANCE IMPROVEMENTS

CONTRACT
BRIDGE NO.

T2017080102

COUNTY

DESIGNED BY: BPH

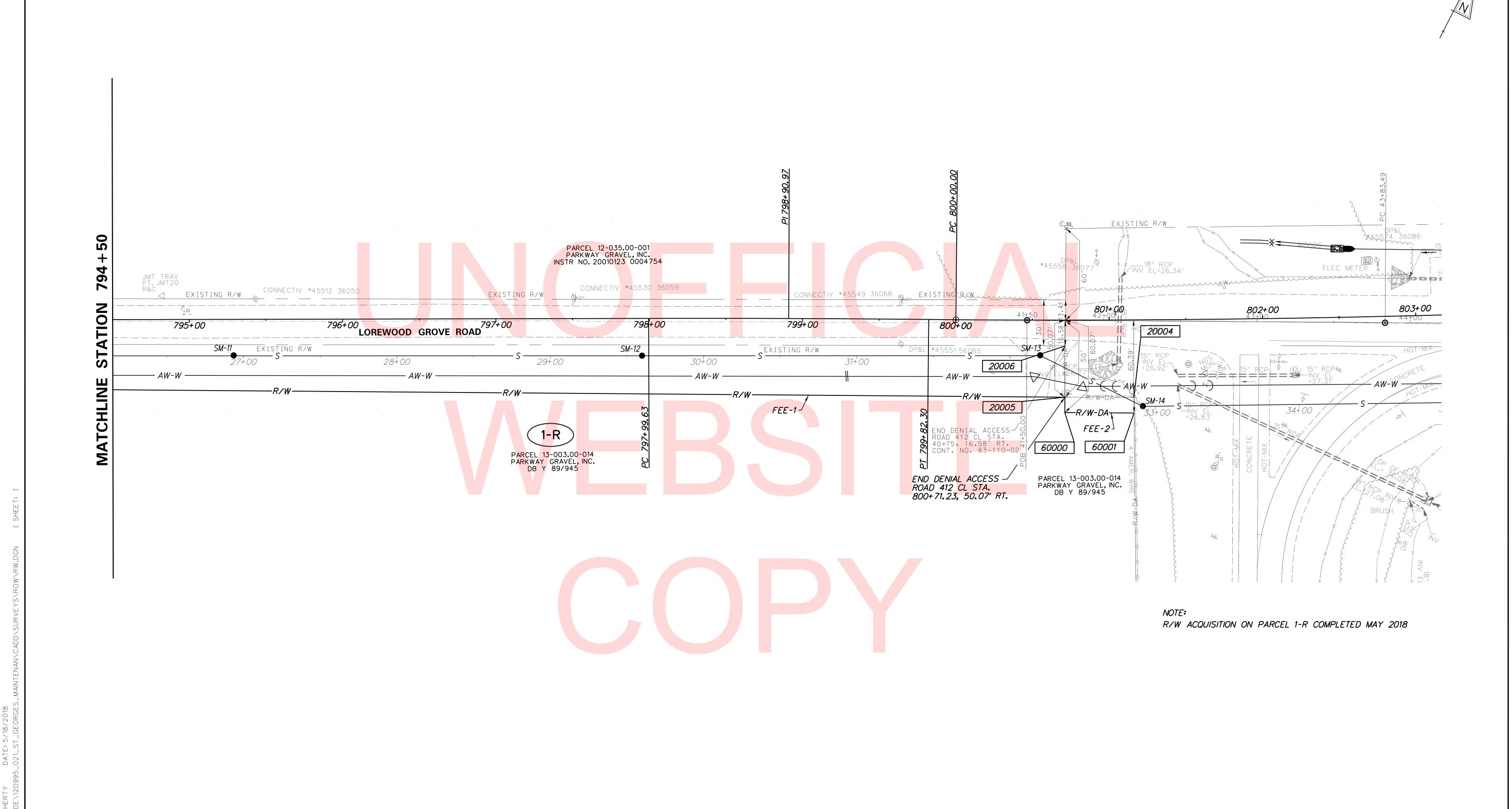
CHECKED BY: BPH

RIGHT-OF-WAY PLAN
SHEET 1 OF 2

PLAN2

38

TOTAL SHTS.
40



ADDENDUMS / REVISIONS **DELAWARE** DEPARTMENT OF TRANSPORTATION

ST. GEORGES **MAINTENANCE YARD ENTRANCE IMPROVEMENTS**

N/A BRIDGE NO. T2017080102 COUNTY NEW CASTLE CHECKED BY:

RIGHT-OF-WAY PLAN SHEET 2 OF 2

39 40

									•	1	
			PROPERTY AREA BEFORE ACQUISITION	ACQUISITION		AREA TO BE					
PLAN SHEET NUMBER	OWNERSHIP OF RECORD	TITLE SOURCE		FEE, R/W, P/E, TCE	ACQ <mark>UISITION</mark> (SQ. FEET /ACRES)	AREA OCCUPIED BY EXISTING RIGHT OF WAY (SQ. FEET /ACRES)	PERMANENT (SQ. FEET /ACRES)	TEMPORARY (SQ. FEET /ACRES)	PROPERTY AREA REMAINING (SQ. FEET /ACRES)	DEED RECORD OF ACQUISTITION	REMARKS
16-17 (1-R) PARKWAY		Y89-945	A - 143.87	FEE-1	39134. <mark>8954</mark> / 0.90				6227842.3046 / 142.97		
17 (1-R) PARKWAY		Y89-945	A - 143.87	FEE-2	450.9173 / 0.01				6266526.2827 / 143.86		R/W-DA (800+71.23 TO 801+16.08)
		16-17 (1-R) PARKWAY GRAVEL, INC.	16-17 (1-R) PARKWAY GRAVEL, INC. Y89-945 17 (1-R) PARKWAY GRAVEL, INC. Y89-945	C = CALCULATED	PLAN SHEET NUMBER OWNERSHIP OF RECORD TITLE SOURCE D=DEED C=CALCULATED A=ASSESMENT 16-17 (1-R) PARKWAY GRAVEL, INC. 17 (1-R) PARKWAY GRAVEL, INC. Y89-945 A - 143.87 FEE-1 FEE, RW, PYE, TCE A - 143.87 FEE-2	PLAN SHEET NUMBER NUMB	PLAN SHEET NUMBER NUMB	P_AN SHEET NUMBER	PLAN SHEET NUMBER NUMB	PLAN SHEET NUMBER OWNERSHIP OF RECORD TITLE SOURCE	PLAN SHEEF NUMBER NUMB

LEGEND

FEE AREA OF ACQUISITION
RW AREA OCCUPIED BY EXISTING R/W
P/E PERMANENT EASEMENT
TCE TEMPORARY CONSTRUCTION EASEMENT

* "-" OFFSET IS LEFT OF BASELINE ** "-" CURVE TURNS TO THE LEFT

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

ST. GEORGES
MAINTENANCE YARD
ENTRANCE IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A	
T2017080102		IVA	İ
12017000102	DESIGNED BY:	JFM	
COUNTY	320/01/23 3	oe	
NEW CASTLE	CHECKED BY:	ВРН	

RIGHT-OF-WAY DATA SHEET 40
TOTAL SHTS