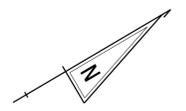




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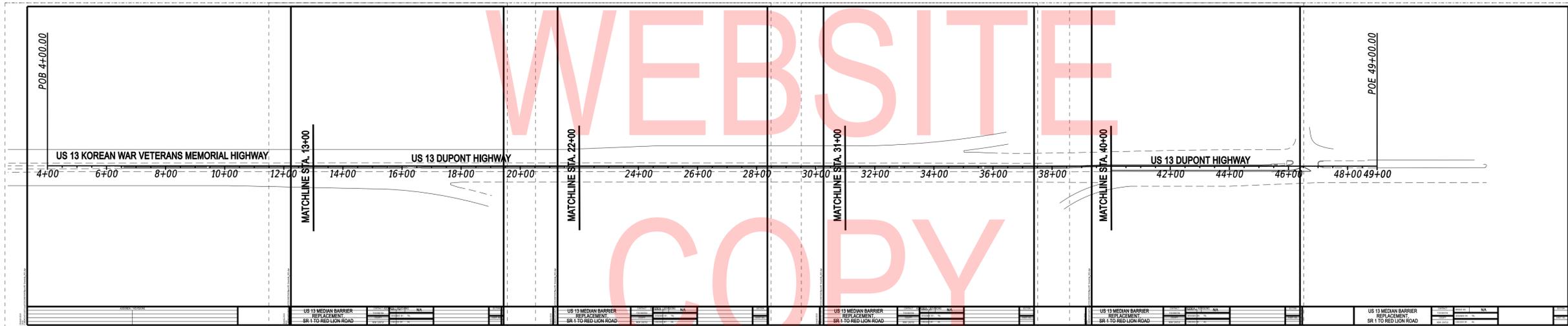
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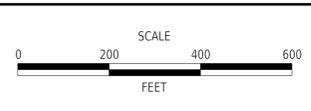
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ADDENDA / REVISIONS



**US 13 MEDIAN BARRIER REPLACEMENT, SR 1 TO RED LION ROAD**

CONTRACT	BRIDGE NO.	N/A
T201900704	DESIGNED BY:	T. LAWLESS
COUNTY	CHECKED BY:	G. SPADAFINO
NEW CASTLE		

<b>INDEX OF SHEETS</b>	SECTION
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	2

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ADDENDA / REVISIONS		US 13 MEDIAN BARRIER REPLACEMENT, SR 1 TO RED LION ROAD	CONTRACT	BRIDGE NO.	N/A	ADDENDA AND REVISIONS	SECTION
			T201900704	DESIGNED BY: T. LAWLESS			PD
			COUNTY	CHECKED BY: G. SPADAFINO			SHEET NO.
			NEW CASTLE				3

**EXISTING SYMBOLS**

DRAINAGE	
	DITCH OR STREAM CENTERLINE
	DIRECTIONAL STREAM FLOW ARROW
	DRAINAGE INLET
	DRAINAGE JUNCTION BOX
	DRAINAGE MANHOLE
	DRAINAGE PIPE AND FLOW ARROW
	DRAINAGE PIPE HEADWALL
	RIPRAP - AREA FEATURE
	RIPRAP - LINEAR FEATURE

MANMADE ROADSIDE FEATURES	
	BOLLARD - STEEL POLE
	BOLLARD - WOOD POST
	CURB
	CURB AND GUTTER
	FENCE - CHAINLINK OR STRANDED
	FENCE - STOCKADE OR SPLIT RAIL
	FLAG POLE
	GUARDRAIL - STEEL BEAM
	GUARDRAIL - WIRE ROPE
	LAMP AND POST - RESIDENTIAL
	MAILBOX
	PARKING METER AND POST
	PAVEMENT - FLEXIBLE
	PAVEMENT - RIGID
	PILE - BRIDGE
	PILLAR OR MISCELLANEOUS POST
	TRAFFIC SIGN AND POST
	WALL - BRICK OR BLOCK
	WALL - STONE

NATURAL ROADSIDE FEATURES	
	GRASS LAWN
	HEDGEROW OR THICKET
	MARSH BOUNDARY LINE
	TREE - CONIFEROUS
	TREE - DECIDUOUS
	TREE STUMP
	SHRUBBERY
	DELIMITED WETLAND BOUNDARY LINE
	WOODS LINE BOUNDARY

RIGHT-OF-WAY SYMBOLS	
	PROPERTY MARKER - CONCRETE MON.
	PROPERTY MARKER - IRON PIPE
	HISTORIC RIGHT-OF-WAY BASELINE
	EXISTING RIGHT-OF-WAY
	EXISTING PROPERTY LINE
	EXISTING EASEMENT
	EXISTING DENIAL OF ACCESS
	EXISTING R/W & DENIAL OF ACCESS

SURVEY CONTROL & MONUMENTATION	
	SURVEY BENCHMARK LOCATION
	SURVEY TIE POINT LOCATION
	SURVEY TRAVERSE POINT
	POINT OF CURVATURE OR TANGENCY
	POINT OF INTERSECTING TANGENTS

UTILITY	
	SOIL BORING LOCATION
	UTILITY TEST HOLE LOCATION
	CABLE TV DISTRIBUTION BOX
	ELECTRIC MANHOLE
	ELECTRIC METER
	ELECTRIC TRANSFORMER
	POLE MOUNTED LUMINAIRE
	GAS MANHOLE
	GAS METER
	GAS VALVE
	GAS PUMP - SERVICE STATION
	RAILROAD TRACKS
	SANITARY SEWER MANHOLE
	SANITARY SEWER VALVE
	SANITARY SEWER CLEANOUT OR VENT
	SEPTIC DRAIN FIELD
	TELEPHONE BOOTH
	TELEPHONE MANHOLE
	TELEPHONE TEST POINT
	TRAFFIC - CONDUIT JUNCTION WELL
	TRAFFIC - LIGHT POLE AND BASE
	TRAFFIC - PEDESTRIAN POLE & BASE
	TRAFFIC - SIGNAL CABINET & BASE
	TRAFFIC - SIGNAL POLE AND BASE
	UTILITY BOX
	UTILITY POLE GUY WIRE ANCHOR
	UTILITY POLE
	WATER - FIRE HYDRANT
	WATER METER
	WATER VALVE
	WELL HEAD
	MANHOLE - UNDETERMINED OWNER

UTILITY COMPANY FACILITIES	
	DELMARVA POWER
	DELDOT
	SUEZ WATER DELAWARE INC.

(X) REPRESENTS ASCE DEFINED SUE QUALITY LEVEL  
 UTILITIES ARE NOTED TO BE IN THE GENERAL AREA OF THE PROJECT BUT NOT SHOWN ON THE PLANS

CONSTRUCTION	
	CONCRETE SAFETY BARRIER - PERMANENT
	BIOFILTRATION SWALE
	BRICK PATTERNED SURFACE
	BUTT JOINT
	CLEAR ZONE
	CONSTRUCTION BASELINE
	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
	CURB OPENING - SUMP / ON GRADE
	CURB OPENING WITH SIDEWALK
	DRAINAGE INLET
	DITCH
	FENCE - METAL / FENCE - WOOD
	FLARED END / SAFETY END SECTION
	GUARDRAIL, TYPE 1
	GUARDRAIL, TYPE 2
	GUARDRAIL, TYPE 3
	GUARDRAIL END ANCHORAGE
	GUARDRAIL END TREATMENT, TYPE 1
	GUARDRAIL END TREATMENT, TYPE 2
	GUARDRAIL END TREATMENT, TYPE 3
	IMPACT ATTENUATOR
	JUNCTION BOX - DRAINAGE
	LATERAL OFFSET
	LIMIT OF CONSTRUCTION
	MAILBOX
	MANHOLE
	PAVEMENT PATCH
	PAVEMENT REMOVAL - TOPSOIL, SEED AND MULCH
	PIPE & DIRECTIONAL FLOW ARROW
	RIPRAP
	P.C.C. SIDEWALK - 4"
	P.C.C. SIDEWALK - 6" (USE 8" DEPTH FOR CHANNELIZATION ISLANDS.)
	UNDERDRAIN
	UNDERDRAIN OUTLET

RIGHT-OF-WAY SYMBOLS	
	PROPOSED RIGHT-OF-WAY MONUMENT
	PROPOSED DENIAL OF ACCESS
	PROPOSED PERMANENT EASEMENT
	PROPOSED RIGHT-OF-WAY
	PROPOSED R/W & DENIAL OF ACCESS
	RIGHT-TO-ENTER
	TEMPORARY CONSTRUCTION EASEMENT
	PROPOSED RIGHT-OF-WAY BASELINE

**PROPOSED SYMBOLS**

IDENTIFIERS	
	ADJUST BY CONTRACTOR
	ADJUST BY OTHERS
	CONCRETE SAFETY BARRIER
	CURB OR CURB & GUTTER
	CONVERT TO JUNCTION BOX
	CONVERT TO DRAINAGE MANHOLE
	CURB OPENING - SUMP / ON GRADE
	CURB OPENING WITH SIDEWALK
	PEDESTRIAN CONNECTION / TYPE
	PEDESTRIAN CONNECTION / TYPE WITHOUT SIDEWALK SURFACE DETECTABLE WARNING SYSTEM
	CONSTRUCTION SAFETY FENCE
	DRAINAGE INLET
	DO NOT DISTURB
	ENERGY DISSIPATOR
	FENCE
	FLARED END SECTION
	FILL WITH FLOWABLE FILL
	FILTRATION STRUCTURE
	GUARDRAIL
	JUNCTION BOX
	MANHOLE
	MONUMENT - RIGHT-OF-WAY
	PIPE
	RELOCATE BY CONTRACTOR
	RELOCATE BY OTHERS
	RELOCATE BY PROPERTY OWNER
	REMOVE BY CONTRACTOR
	REMOVE BY TRAFFIC CONTRACTOR
	REMOVE BY OTHERS
	SAFETY END SECTION
	UNDERDRAIN / LENGTH
	UNDERDRAIN OUTLET PIPE

LANDSCAPING	
	LANDSCAPE PLANTINGS
	SHRUBBERY
	CONIFEROUS TREE
	DECIDUOUS TREE

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

PAVEMENT SECTION(S)	
	RECONSTRUCTED PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS

ADDENDA / REVISIONS

NOT TO SCALE

**US 13 MEDIAN BARRIER REPLACEMENT, SR 1 TO RED LION ROAD**

CONTRACT  
T201900704  
COUNTY  
NEW CASTLE

BRIDGE NO. N/A  
DESIGNED BY: T. LAWLESS  
CHECKED BY: G. SPADAFINO

LEGEND

SECTION  
PD  
SHEET NO.  
4

## 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 2018, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT.

2. ELECTRONIC DESIGN DATA FILES THAT WILL BE MADE AVAILABLE TO THE AWARDED CONTRACTOR, INCLUDE:

( X )	NONE
( )	ASCII DATA FILES WITH COORDINATES AND ELEVATIONS FOR PROPOSED POINTS AS SELECTED BY THE ENGINEER.
( )	EXISTING DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
( )	PROPOSED DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
( )	DESIGN FILE, IN .DGN FILE FORMAT, THAT CONTAINS 3D FEATURE LINES FOR THE PROPOSED DESIGN. 3D FEATURE LINES ARE FOR THE PROPOSED TOP SURFACE ELEVATION ONLY.

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.

NOTE: THERE MAY BE SOME AREAS OF THE PROJECT NOT INCLUDED IN THE ELECTRONIC DESIGN DATA FILE(S). IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE DESIGN DATA FILE AND DETERMINE THE LIMITS OF THE PROJECT INCLUDED.

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

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

## PROJECT NOTES

- ITEMS TO BE REMOVED UNDER ITEM 211000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
  - EXISTING ATTENUATOR
  - EXISTING DRAINAGE INLET TOP AND GRATES
  - GUARDRAIL HARDWARE (RAILS, BLOCKS, POSTS, ETC)
- 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.
- TOTAL DISTURBED AREA FOR THIS PROJECT IS 0.00 ACRES.

## SECTION 100

- 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.
- ANY ITEMS DAMAGED BY THE CONTRACTOR; DRAINAGE INLETS, GUARDRAIL AND BARRIER AT THE DISCRETION OF THE ENGINEER, SHALL BE REPAIRED AND/OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.

## SECTION 200

- BORROW TYPE A SHALL BE USED FOR BACKFILLING ALL UNDERCUT AREAS AS DIRECTED BY THE ENGINEER.

## SECTION 700

- SUBSECTION 724.02 IS MODIFIED AS FOLLOWS: THE CONTRACTOR MUST FURNISH MASH COMPLIANT PERMANENT IMPACT ATTENUATORS. THE ATTENUATORS MUST BE SELECTED FROM DELDOT'S MOST RECENT APPROVED PRODUCT LIST.

## SECTION 900

- 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 NOI IS KEPT ON FILE IN EACH OF THE CONSTRUCTION OFFICES AND THE DEPARTMENT'S STORMWATER SECTION. A COPY OF THE GENERAL PERMIT OR THE NOI CAN BE OBTAINED UPON REQUEST FROM EITHER THE DEPARTMENT'S STORMWATER ENGINEER OR THE APPROPRIATE CONSTRUCTION ENGINEER.

## MISCELLANEOUS

- THE CONTRACTOR SHALL NOTIFY DART FIRST STATE AT DOT\_DETOURS@DELAWARE.GOV AT LEAST 14 DAYS PRIOR TO THE START OF ANY DETOURS OR CONSTRUCTION, AND DOT\_DTC\_PROJECTDEVELOPMENT@DELAWARE.GOV AT SUCH TIME THE FACILITY IS COMPLETED AND OPERABLE FOR TRANSIT OPERATIONS. FOR EMERGENCY DETOUR INFORMATION ONLY, PLEASE CONTACT DTC'S CHIEF SCHEDULER AT 302-576-6019.

## MISCELLANEOUS cont.

- BASED ON CURRENT COORDINATION, THIS PROJECT IS CLEAR FOR CULTURAL RESOURCES AND EXEMPT FROM SHPO REVIEW UNDER STIPULATION II OF DELDOT'S PROGRAMMATIC AGREEMENT WITH THE FEDERAL HIGHWAYS ADMINISTRATION (FHWA) AND DELAWARE STATE HISTORIC PRESERVATION OFFICE (SHPO). AS A RESULT, DELDOT CULTURAL RESOURCE STAFF HAVE ISSUED A FINDING OF NO HISTORIC PROPERTIES AFFECTED. THERE ARE NO CULTURAL RESOURCE CONCERNS AS LONG AS THE PROJECT SCOPE IS NOT MODIFIED AND ALL STAGING AND STOCKPILING REMAIN WITHIN THE EXISTING ROADWAY FOOTPRINT. SHOULD IT BE NECESSARY TO ADD ADDITIONAL ACCESS LOCATIONS, OTHER STOCKPILING/STAGING AREAS, OR OTHERWISE ALTER THE SCOPE OF THE PROJECT, DELDOT ENVIRONMENTAL STUDIES STAFF WILL NEED TO REVIEW THESE CHANGES FOR POTENTIAL CULTURAL RESOURCES CONCERNS.
- THE CONTRACTOR SHALL FILL IN ANY VOIDS CREATED BY GUARDAIL INSTALLATION IN THE HOT-MIX PAVEMENT WITH MILLINGS AND APPLY CRACK SEALANT AROUND THE GUARDRAIL POSTS AFTER INSTALLATION TO PREVENT WATER SEEPAGE. THE SEALANT AND MILLINGS SHALL BE INCIDENTAL TO ITEM 401005 SUPERPAVE TYPE C. THE CONTRACTOR SHALL FOLLOW SPECIFICATIONS IN SECTION 1042 IN THE 2016 STANDARD SPECIFICATIONS. THE SEALANT SHALL BE APPLIED TO THE BITUMINOUS PAVEMENT AT ANY LOCATIONS WHERE CRACKS IN THE PAVEMENT APPEAR AROUND THE GUARDRAIL POSTS AND ALONG THE 6' WIDE PROPOSED PAVEMENT SECTION AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL DELIVER THE REMOVED PWB GRATES TO DELDOT AREA 10 YARD, LOCATED AT 250 BEAR CHRISTIANA ROAD. CONTRACTOR SHALL CALL 302-326-4540 PRIOR TO DELIVERY. PAYMENT FOR DELIVERY IS INCIDENTAL TO ITEM 602508 MODIFIED DRAINAGE INLET TOP UNIT.
- THE CONTRACTOR SHALL DELIVER THE REMOVED EXISTING PERMANENT IMPACT ATTENUATOR TO DELDOT AREA 10 YARD, LOCATED AT 250 BEAR CHRISTIANA ROAD. CONTRACTOR SHALL CALL 302-326-4540 PRIOR TO DELIVERY. PAYMENT FOR DELIVERY IS INCIDENTAL TO ITEM 211000 REMOVAL OF STRUCTURES AND OBSTRUCTIONS.

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ADDENDA / REVISIONS

NOT TO SCALE

US 13 MEDIAN BARRIER  
REPLACEMENT,  
SR 1 TO RED LION ROAD

CONTRACT	BRIDGE NO.	N/A
T201900704	DESIGNED BY:	T. LAWLESS
COUNTY	CHECKED BY:	G. SPADAFINO
NEW CASTLE		

NOTES

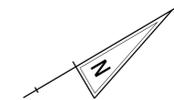
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SHEET NO.
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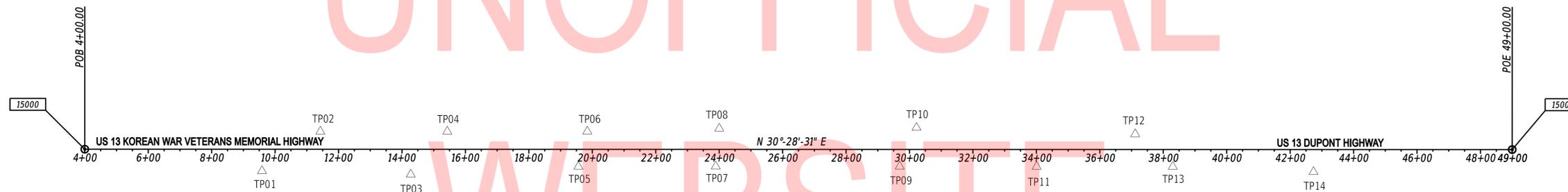
CONSTRUCTION ALIGNMENT CONTROL				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
15000	4+00.00	0.00	585477.4043	589869.2429
15001	9+00.00	0.00	585908.3284	590122.8262
15002	14+00.00	0.00	586339.2525	590376.4094
15003	19+00.00	0.00	586770.1765	590629.9926
15004	24+00.00	0.00	587201.1006	590883.5758
15005	29+00.00	0.00	587632.0247	591137.1590
15006	34+00.00	0.00	588062.9487	591390.7422
15007	39+00.00	0.00	588493.8728	591644.3254
15008	44+00.00	0.00	588924.7969	591897.9087
15009	49+00.00	0.00	589355.7209	592151.4919

HORIZONTAL / VERTICAL CONTROL DATA					
POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEV.
TP01	9+58.75	68.25	588239.2091	590211.4272	36.90
TP02	10+42.70	-56.11	586145.9625	590197.5450	43.27
TP03	14+27.69	79.25	586322.9298	590458.7372	50.58
TP04	15+42.89	-56.03	586490.8260	590400.5758	53.10
TP05	19+56.04	54.34	586790.9193	590705.2344	57.12
TP06	19+84.27	-56.95	586871.4383	590624.0661	57.31
TP07	23+89.12	53.59	587164.5558	590924.2347	61.06
TP08	24+00.14	-65.78	587234.5940	590826.9441	60.85
TP09	29+69.17	53.69	587664.4130	591218.4970	59.56
TP10	30+21.98	-68.61	587771.9523	591139.8796	59.15
TP11	34+00.81	54.18	588036.1747	591437.8300	56.61
TP12	37+11.47	-48.50	588355.9889	591506.8976	57.16
TP13	38+30.17	54.05	588406.2876	591655.4815	58.34
TP14	42+73.41	70.47	588780.0551	591894.5057	59.13

NOTE: NEGATIVE DENOTES LEFT OF BASELINE.



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**DATUM REFERENCE:**

HORIZONTAL - THIS PROJECT IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983 (NAD 83).

VERTICAL - THIS PROJECT IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

ADDENDA / REVISIONS



**US 13 MEDIAN BARRIER REPLACEMENT, SR 1 TO RED LION ROAD**

CONTRACT	BRIDGE NO.	N/A
T201900704	DESIGNED BY:	T. LAWLESS
COUNTY	CHECKED BY:	G. SPADAFINO
NEW CASTLE		

**HORIZONTAL AND VERTICAL CONTROL**

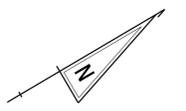
SECTION
PD
SHEET NO.
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GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
001	W-BEAM, TYPE 1-27 TO TYPE 1-31 TRANSITION SECTION	6+36.00	5.00	28.13
002	W-BEAM, TYPE 1-27 TO TYPE 1-31 TRANSITION SECTION	6+36.00	5.00	28.13
003	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 3-31	6+64.13	5.00	635.87

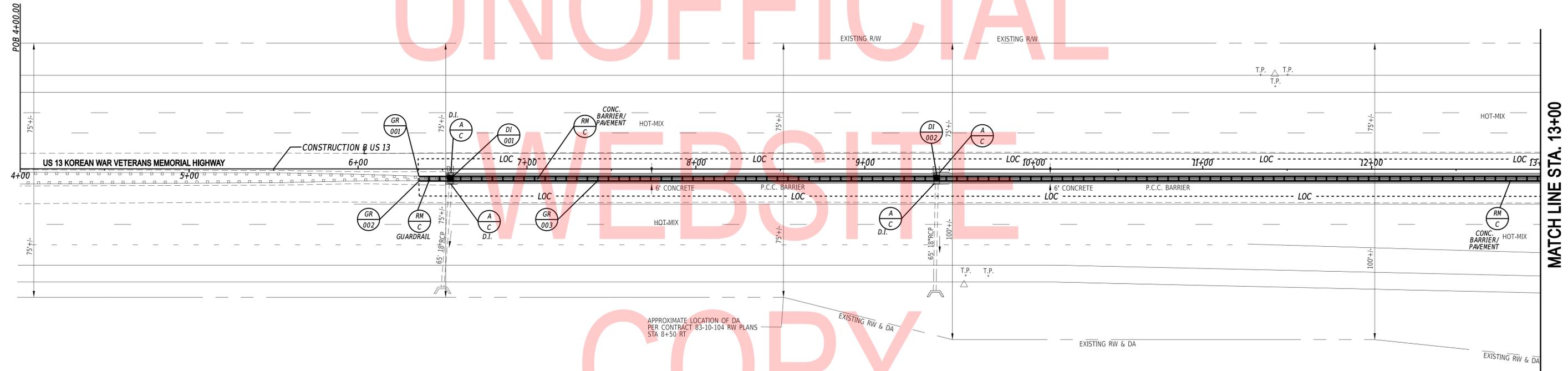
\*NOTE: GUARDRAIL TRANSITION SECTION PAID UNDER ITEM 720021 GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31

DRAINAGE INLET TOP SCHEDULE				
NO.	STATION	OFFSET	BOX SIZE	GRATE
001	6+55.00	5.00	93.25" x 53"	PWBD-1
002	9+42.55	5.00	93.25" x 53"	PWBD-1

\*NOTE 1: PROPOSED INLET TOPS WILL MATCH EXISTING FLOW LINE  
 \*NOTE 2: PWBD GRATES TO BE PAID UNDER ITEM 602100 REPLACE DRAINAGE INLET GRATES. TWO GRATES PER INLET BASIN. SEE CONSTRUCTION DETAIL SHEETS.



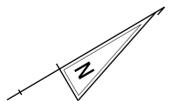
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\*GENERAL NOTE:  
 EXISTING RIGHT-OF-WAY IS SHOWN FOR INFORMATIONAL PURPOSES ONLY.  
 RIGHT-OF-WAY AS SHOWN IS BASED ON RW PLANS FOR CONTRACT 83-10-104

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ADDENDA / REVISIONS   	SCALE  FEET	<b>US 13 MEDIAN BARRIER REPLACEMENT, SR 1 TO RED LION ROAD</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>CONTRACT</td> <td>BRIDGE NO.</td> <td style="text-align: center;">N/A</td> </tr> <tr> <td>T201900704</td> <td>DESIGNED BY:</td> <td>T. LAWLESS</td> </tr> <tr> <td>COUNTY</td> <td>CHECKED BY:</td> <td>G. SPADAFINO</td> </tr> <tr> <td>NEW CASTLE</td> <td></td> <td></td> </tr> </table>	CONTRACT	BRIDGE NO.	N/A	T201900704	DESIGNED BY:	T. LAWLESS	COUNTY	CHECKED BY:	G. SPADAFINO	NEW CASTLE			<b>CONSTRUCTION PLAN</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"><b>CP-01</b></td> </tr> <tr> <td style="text-align: center;">SECTION</td> </tr> <tr> <td style="text-align: center;">PD</td> </tr> <tr> <td style="text-align: center;">SHEET NO.</td> </tr> <tr> <td style="text-align: center;">8</td> </tr> </table>	<b>CP-01</b>	SECTION	PD	SHEET NO.	8
CONTRACT	BRIDGE NO.	N/A																				
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COUNTY	CHECKED BY:	G. SPADAFINO																				
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<b>CP-01</b>																						
SECTION																						
PD																						
SHEET NO.																						
8																						



GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
004	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 3-31	13+00.00	5.00	216.77
005	MODIFIED GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 2-31	15+16.77	5.00	27.50
006	MODIFIED GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 2-31	15+16.77	5.00	27.50
007	MODIFIED GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 2-31	16+95.13	5.00	27.50
008	MODIFIED GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 2-31	16+95.13	5.00	27.50
009	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 3-31	17+22.63	5.00	482.37

\*REFER TO CONSTRUCTION DETAIL SHEET FOR MODIFIED GUARDRAIL TO BARRIER CONNECTION.

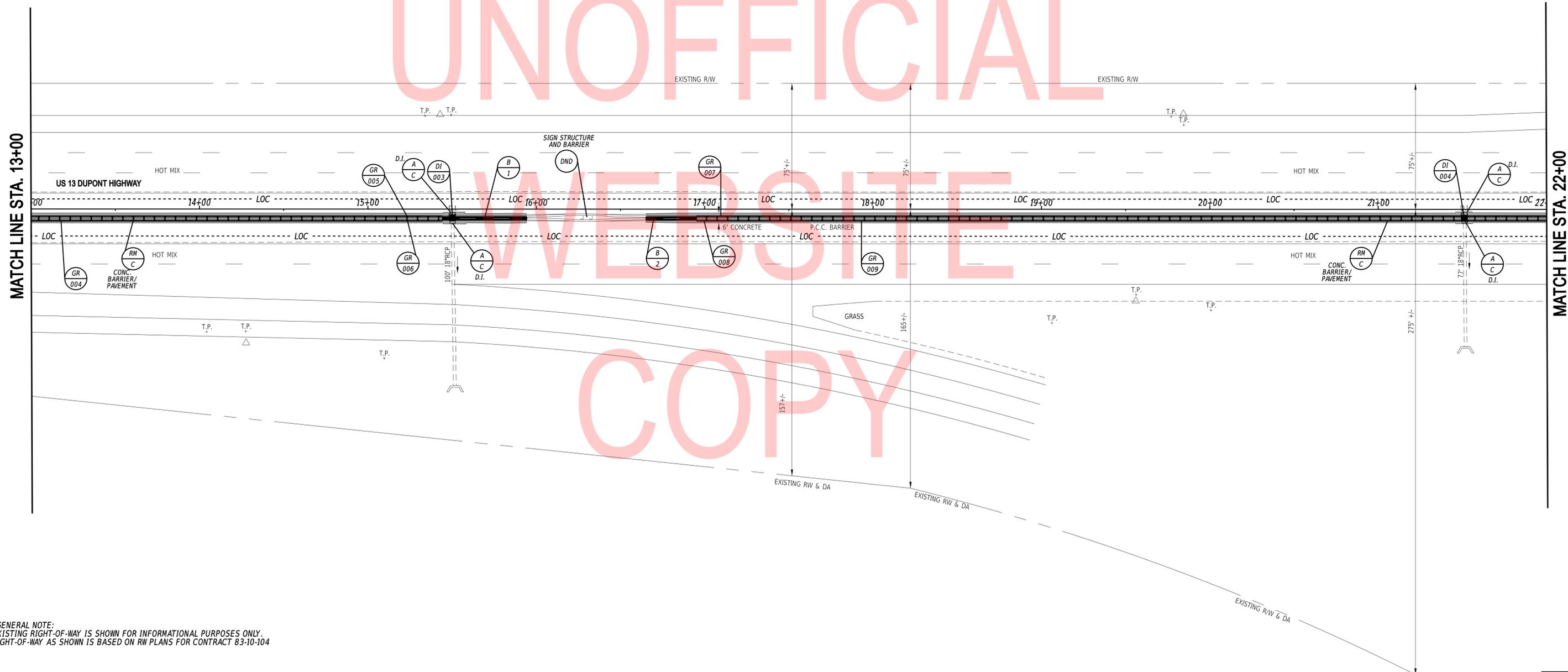
DRAINAGE INLET TOP SCHEDULE				
NO.	STATION	OFFSET	BOX SIZE	GRATE
003	15+50.00	5.00	93.25" x 53"	PWBD-1
004	21+51.00	5.00	93.25" x 53"	PWBD-1

\*NOTE 1: PROPOSED INLET TOPS WILL MATCH EXISTING FLOW LINE  
 \*NOTE 2: PWBD GRATES TO BE PAID UNDER ITEM 602100 REPLACE DRAINAGE INLET GRATES. TWO GRATES PER INLET BASIN. SEE CONSTRUCTION DETAIL SHEETS.

BARRIER SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	TRANSITION MEDIAN BARRIER	50.00
2	TRANSITION MEDIAN BARRIER	30.00

\* PAY FOR TRANSITION MEDIAN BARRIER UNDER ITEM 732002. SEE CONSTRUCTION DETAIL SHEETS.

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\*GENERAL NOTE:  
 EXISTING RIGHT-OF-WAY IS SHOWN FOR INFORMATIONAL PURPOSES ONLY.  
 RIGHT-OF-WAY AS SHOWN IS BASED ON RW PLANS FOR CONTRACT 83-10-104

ADDENDA / REVISIONS

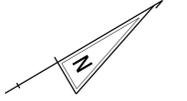


US 13 MEDIAN BARRIER REPLACEMENT, SR 1 TO RED LION ROAD

CONTRACT	BRIDGE NO.	N/A
T201900704	DESIGNED BY:	T. LAWLESS
COUNTY	CHECKED BY:	G. SPADAFINO
NEW CASTLE		

CONSTRUCTION PLAN

CP-02
SECTION
PD
SHEET NO.
9

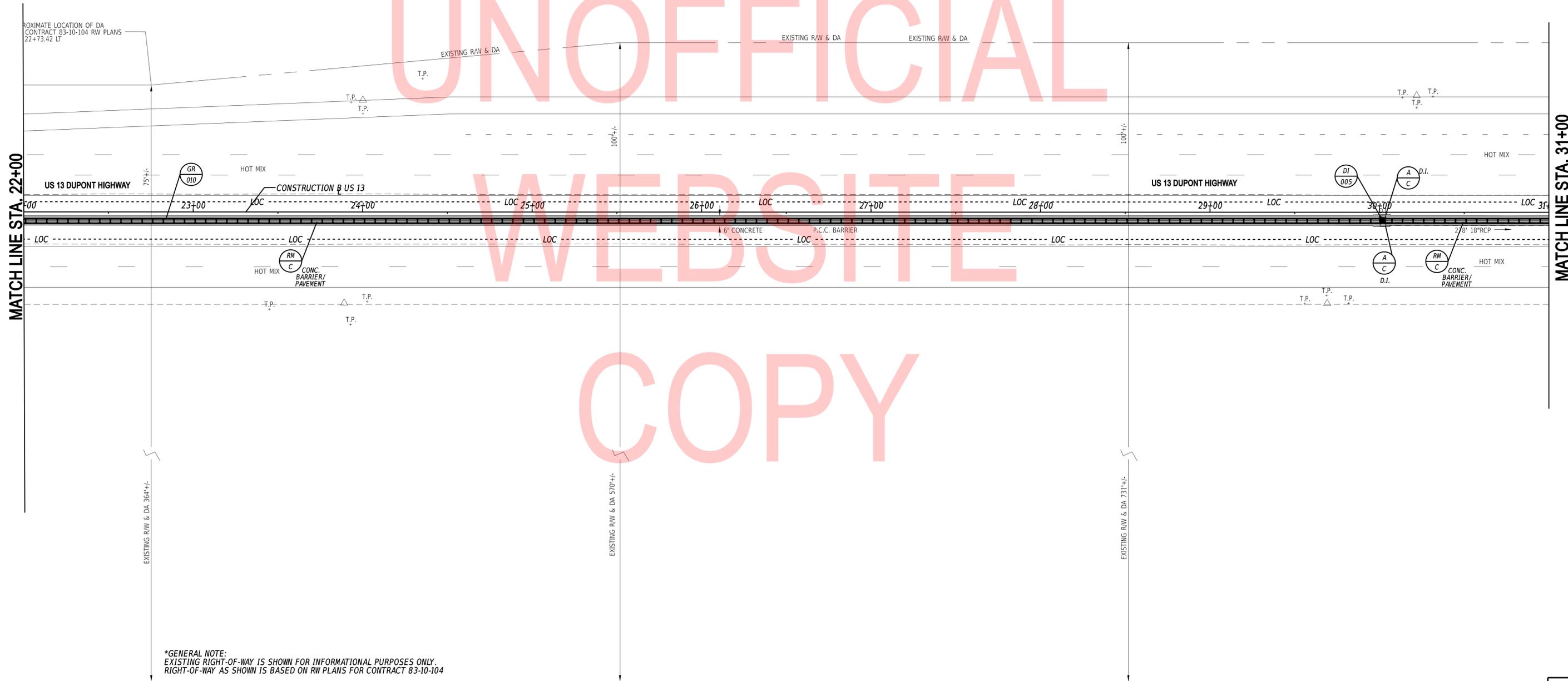


GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
010	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 3-31	21+00.00	5.00	900.00

DRAINAGE INLET TOP SCHEDULE				
NO.	STATION	OFFSET	BOX SIZE	GRATE
005	30+00.00	5.00	93.25" x 53"	PWBD-1

\*NOTE 1: PROPOSED INLET TOPS WILL MATCH EXISTING FLOW LINE  
 \*NOTE 2: PWBD GRATES TO BE PAID UNDER ITEM 602100 REPLACE DRAINAGE INLET GRATES. TWO GRATES PER INLET BASIN. SEE CONSTRUCTION DETAIL SHEETS.

UNOFFICIAL  
WEBSITE  
COPY



\*GENERAL NOTE:  
 EXISTING RIGHT-OF-WAY IS SHOWN FOR INFORMATIONAL PURPOSES ONLY.  
 RIGHT-OF-WAY AS SHOWN IS BASED ON RW PLANS FOR CONTRACT 83-10-104

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ADDENDA / REVISIONS		SCALE  FEET	<b>US 13 MEDIAN BARRIER REPLACEMENT, SR 1 TO RED LION ROAD</b>		CONTRACT T201900704 COUNTY NEW CASTLE	BRIDGE NO. N/A DESIGNED BY: T. LAWLESS CHECKED BY: G. SPADAFINO	<b>CONSTRUCTION PLAN</b>	<b>CP-03</b> SECTION PD SHEET NO. 10

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
011	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 3-31	31+00.00	5.00	559.50
012	MODIFIED GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 2-31	36+59.50	5.00	27.50
013	MODIFIED GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 2-31	36+59.50	5.00	27.50

\*REFER TO CONSTRUCTION DETAIL SHEET FOR MODIFIED GUARDRAIL TO BARRIER CONNECTION.

DRAINAGE INLET TOP SCHEDULE				
NO.	STATION	OFFSET	BOX SIZE	GRATE
006	30+00.00	5.00	93.25" x 53"	PWBD-1
007	35+66.35	5.00	108.5" x 62.75"	PWBD-2
008	38+50.00	3.80	93.25" x 53"	PWBD-1

\*NOTE 1: PROPOSED INLET TOPS WILL MATCH EXISTING FLOW LINE  
 \*NOTE 2: PWBD GRATES TO BE PAID UNDER ITEM 602100 REPLACE DRAINAGE INLET GRATES. TWO GRATES PER INLET BASIN. SEE CONSTRUCTION DETAIL SHEET.

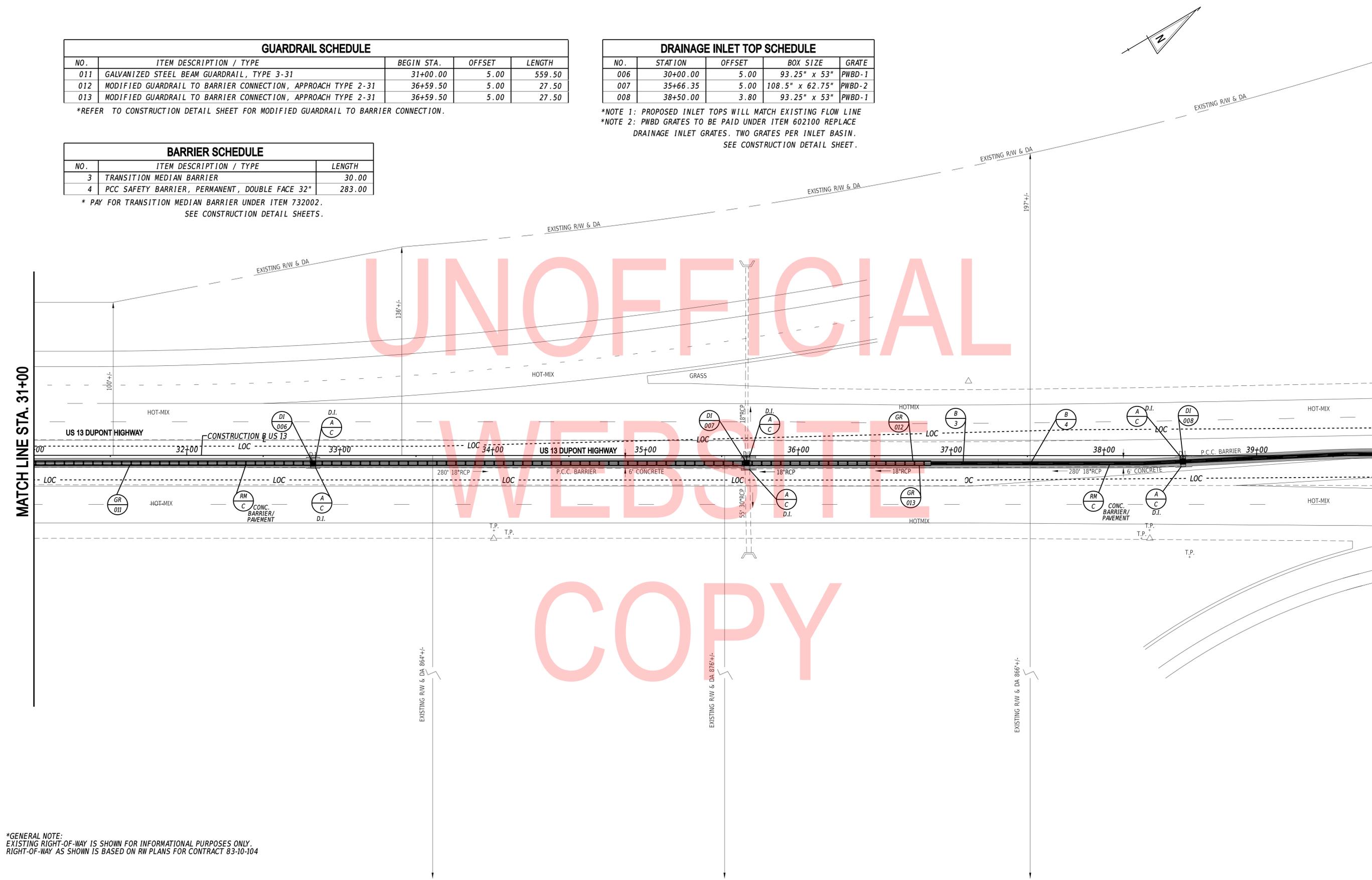
BARRIER SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
3	TRANSITION MEDIAN BARRIER	30.00
4	PCC SAFETY BARRIER, PERMANENT, DOUBLE FACE 32"	283.00

\* PAY FOR TRANSITION MEDIAN BARRIER UNDER ITEM 732002. SEE CONSTRUCTION DETAIL SHEETS.

MATCH LINE STA. 31+00

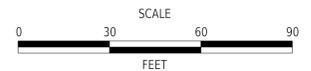
MATCH LINE STA. 40+00

UNOFFICIAL  
WEBSITE  
COPY



\*GENERAL NOTE:  
 EXISTING RIGHT-OF-WAY IS SHOWN FOR INFORMATIONAL PURPOSES ONLY.  
 RIGHT-OF-WAY AS SHOWN IS BASED ON RW PLANS FOR CONTRACT 83-10-104

ADDENDA / REVISIONS



**US 13 MEDIAN BARRIER REPLACEMENT, SR 1 TO RED LION ROAD**

CONTRACT	BRIDGE NO.	N/A
T201900704	DESIGNED BY:	T. LAWLESS
COUNTY	CHECKED BY:	G. SPADAFINO
NEW CASTLE		

CONSTRUCTION PLAN

CP-04
SECTION
PD
SHEET NO.
11

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EXISTING R/W & DA

DRAINAGE INLET TOP SCHEDULE				
NO.	STATION	OFFSET	BOX SIZE	GRATE
009	42+95.00	1.00	93.25" x 53"	PWBD-1
010	45+47.64	2.88	93.25" x 53"	PWBD-1

\*NOTE 1: PROPOSED INLET TOPS WILL MATCH EXISTING FLOW LINE  
 \*NOTE 2: PWBD GRATES TO BE PAID UNDER ITEM 602100 REPLACE DRAINAGE INLET GRATES. TWO GRATES PER INLET BASIN. SEE CONSTRUCTION DETAIL SHEETS.

BARRIER SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
5	PCC SAFETY BARRIER, PERMANENT, DOUBLE FACE 32"	567.00

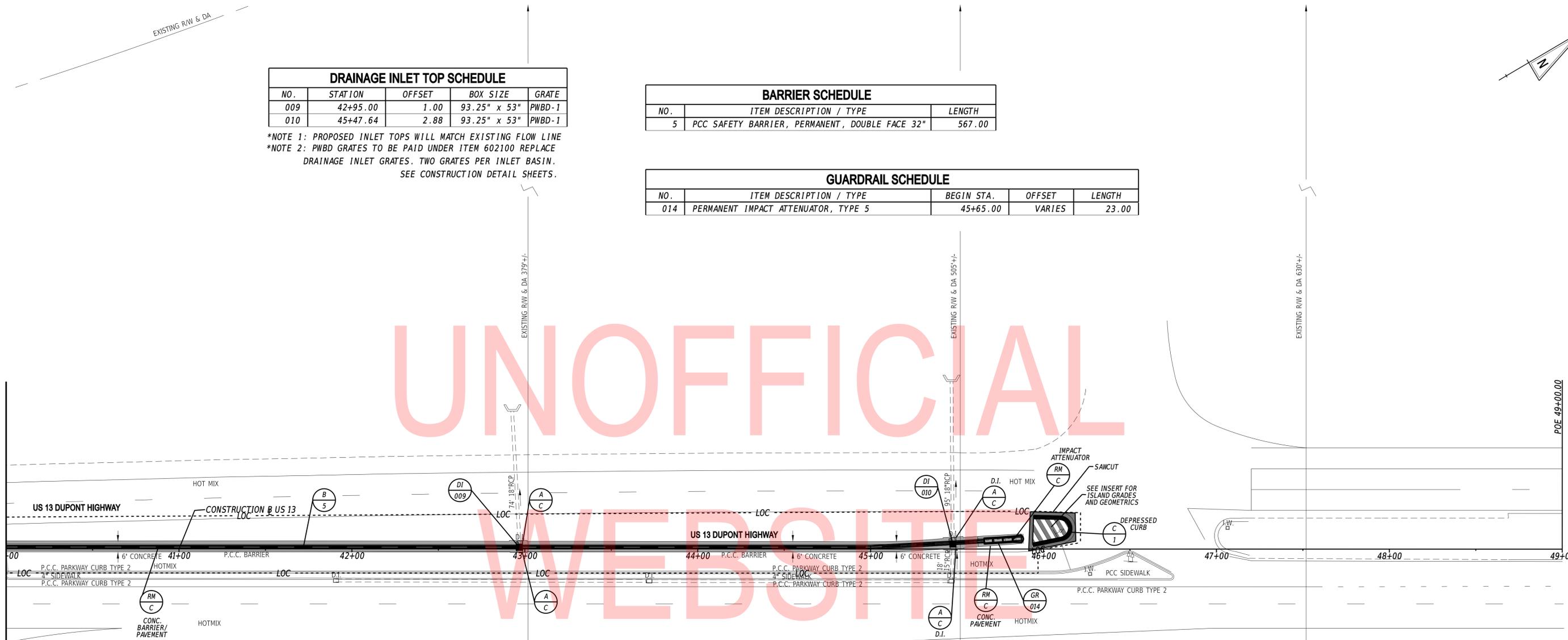
GUARDRAIL SCHEDULE			
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	LENGTH
014	PERMANENT IMPACT ATTENUATOR, TYPE 5	45+65.00	VARIES

UNOFFICIAL

WEBSITE

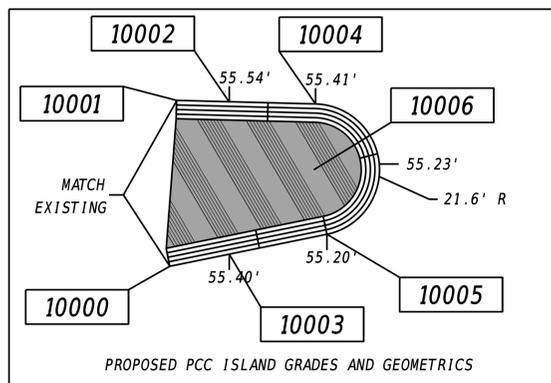
MATCH LINE STA. 40+00

POE 49+00.00



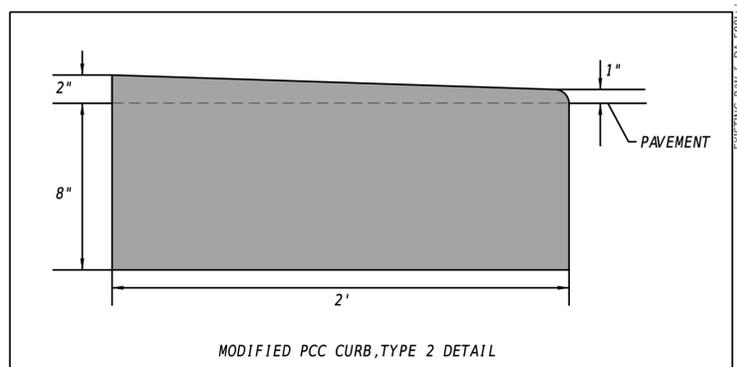
COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
10000	45+94.07	-1.47	589092.8031	591995.0732
10001	45+94.24	-19.45	589102.0665	591979.6530
10002	46+00.00	-2.67	589098.5213	591997.0397
10003	46+00.00	-19.31	589106.9588	591982.7016
10004	46+08.21	-19.10	589113.9293	591987.0454
10005	46+10.68	-11.89	589111.1686	591993.7909
10006	46+09.25	-4.84	589108.8320	592000.5855

NOTE: NEGATIVE DENOTES LEFT OF BASELINE



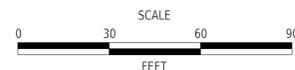
CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	MODIFIED PCC CURB, TYPE 2	53.50

\*NOTE: DEPRESS TYPE 2 CURB WITH 1" LIP. SEE DETAIL BELOW.  
 \*NOTE: CURB TO BE PAID UNDER ITEM 702000 TRIANGULAR CHANNILIZING ISLANDS



\*GENERAL NOTES:  
 EXISTING RIGHT-OF-WAY IS SHOWN FOR INFORMATIONAL PURPOSES ONLY. RIGHT-OF-WAY AS SHOWN IS BASED ON RW PLANS FOR CONTRACT 83-10-104

ADDENDA / REVISIONS

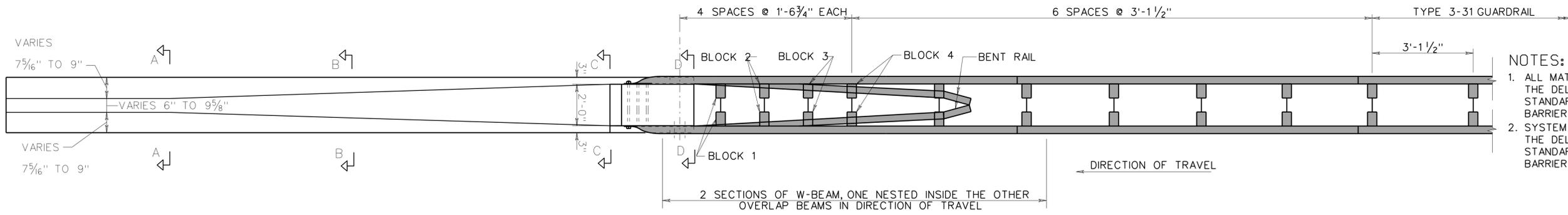


US 13 MEDIAN BARRIER REPLACEMENT, SR 1 TO RED LION ROAD

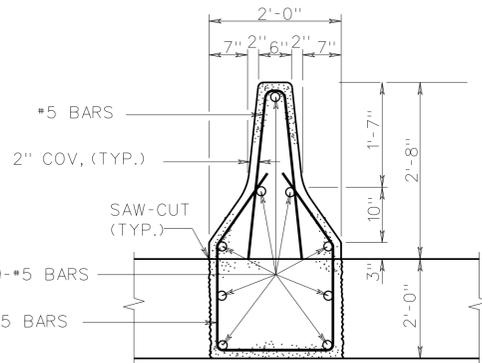
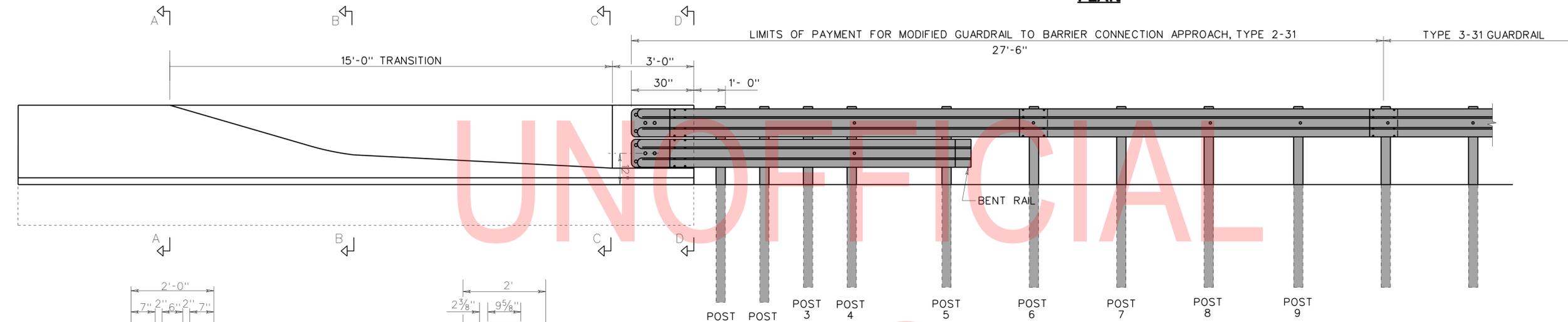
CONTRACT	T201900704	BRIDGE NO.	N/A
COUNTY	NEW CASTLE	DESIGNED BY:	T. LAWLESS
		CHECKED BY:	G. SPADAFINO

CONSTRUCTION PLAN

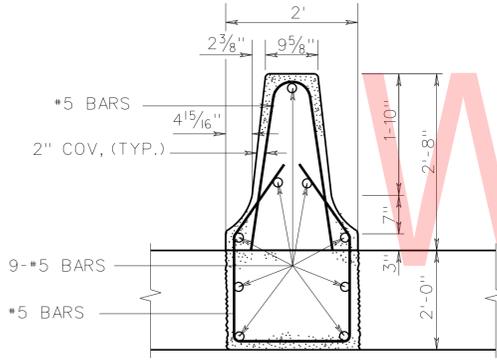
CP-05
SECTION
PD
SHEET NO.
12



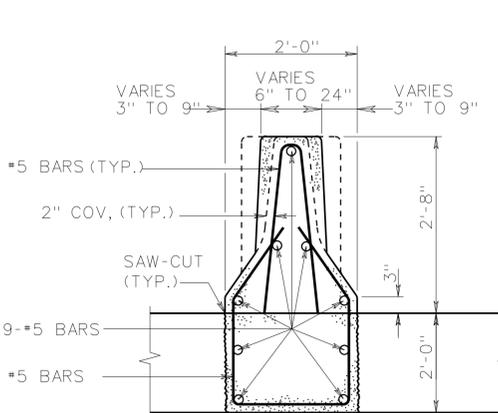
- NOTES:**
1. ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION'S STANDARD CONSTRUCTION DETAIL, GUARDRAIL TO BARRIER CONNECTION, APPROACH, TYPE 2-31.
  2. SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION'S STANDARD CONSTRUCTION DETAIL, GUARDRAIL TO BARRIER CONNECTION, APPROACH, TYPE 2-31.



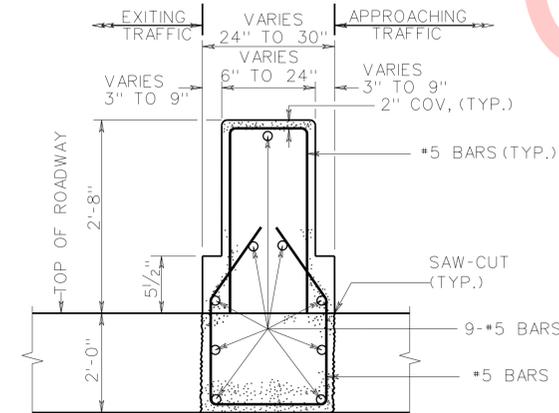
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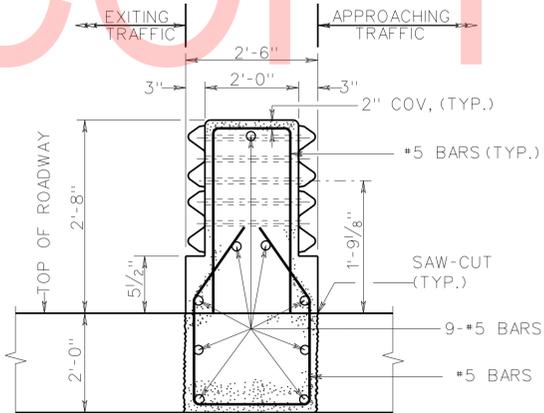
SECTION: A-A PROPOSED BARRIER CONNECTION



SECTION: B-B

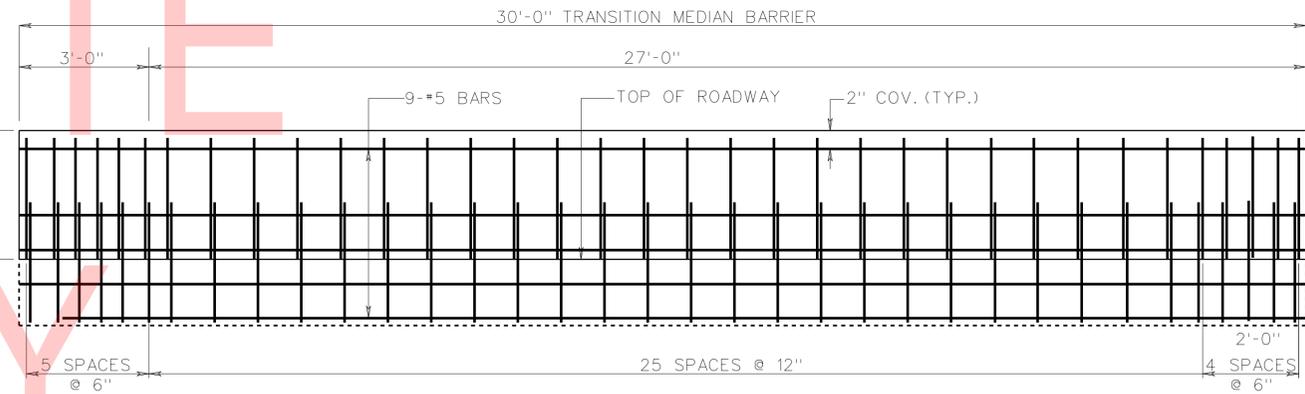


SECTION: C-C



SECTION: D-D

**MODIFIED GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 2-31**



TRANSITION BARRIER ELEVATION

- NOTES:**
1. CONTRACTOR SHALL PAY FOR TRANSITION MEDIAN BARRIER UNDER ITEM 723002 PORTLAND CEMENT CONCRETE SAFETY BARRIER, PERMANENT, DOUBLE FACE, 32".
  2. REINFORCEMENT IS INCIDENTAL TO ITEM 723002
  3. TRANSITION TO MATCH EXISTING BARRIER. DIMENSIONS SHOWN ON PLANS BASED ON BEST AVAILABLE INFORMATION. FIELD VERIFY DIMENSIONS PRIOR TO ORDERING MATERIALS.

ADDENDA / REVISIONS

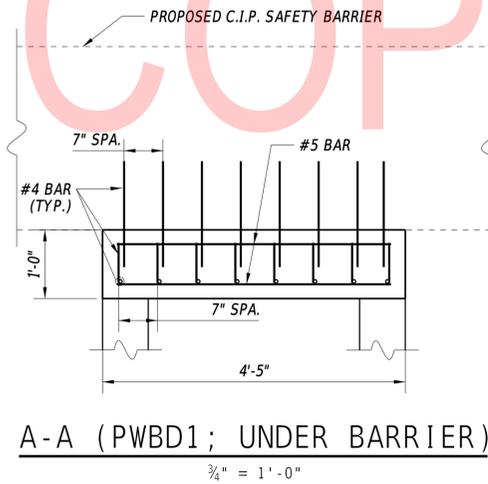
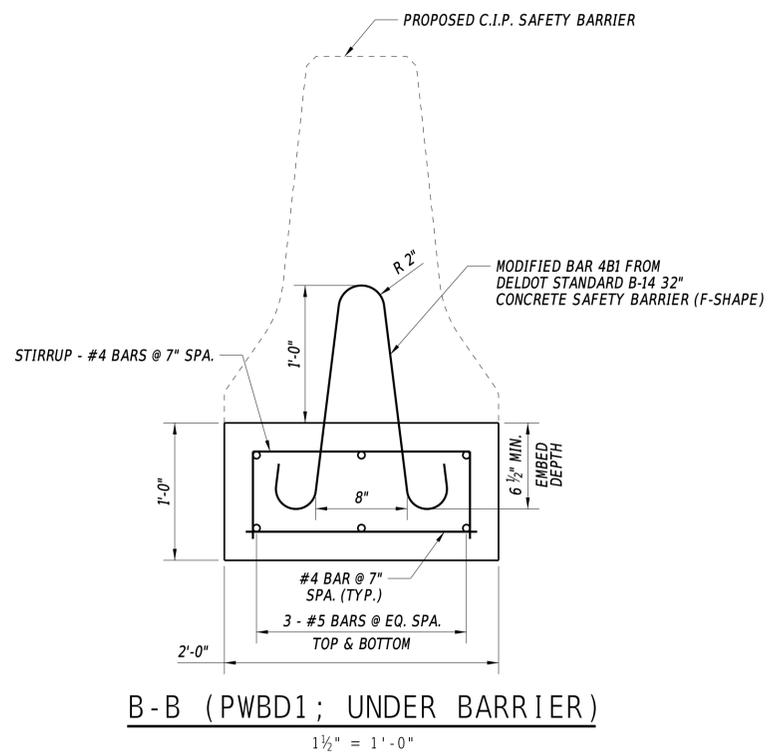
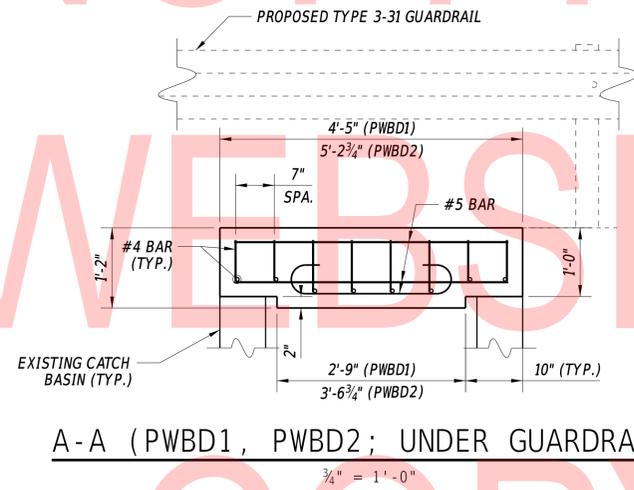
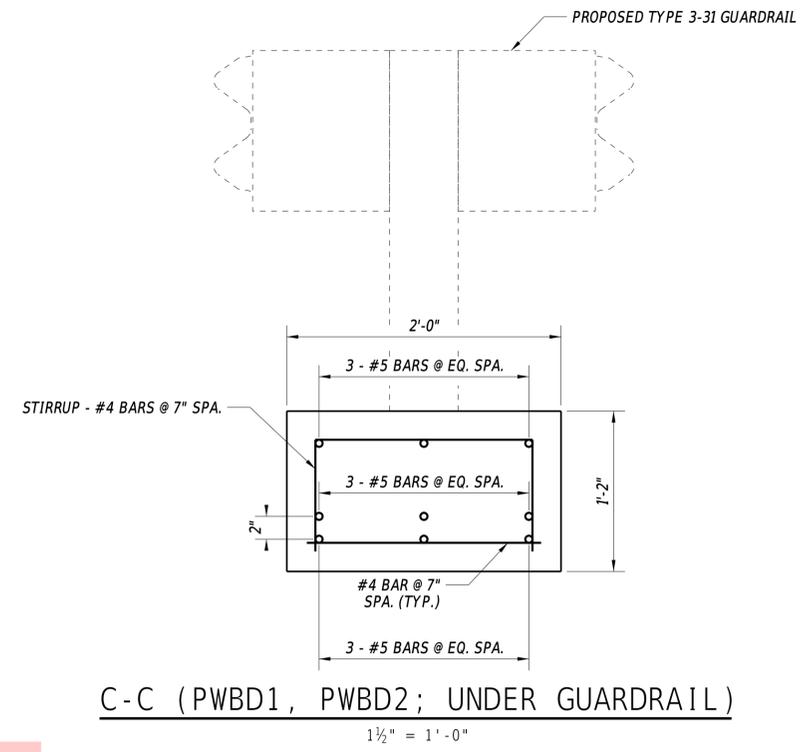
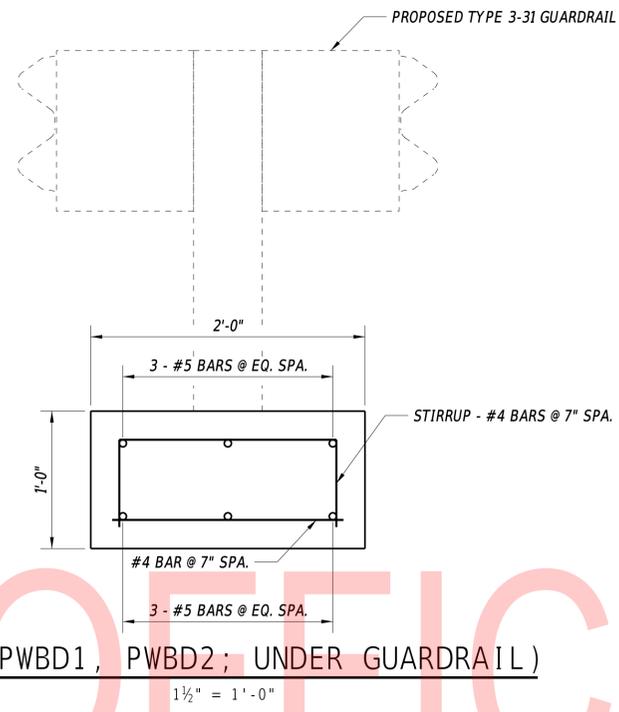
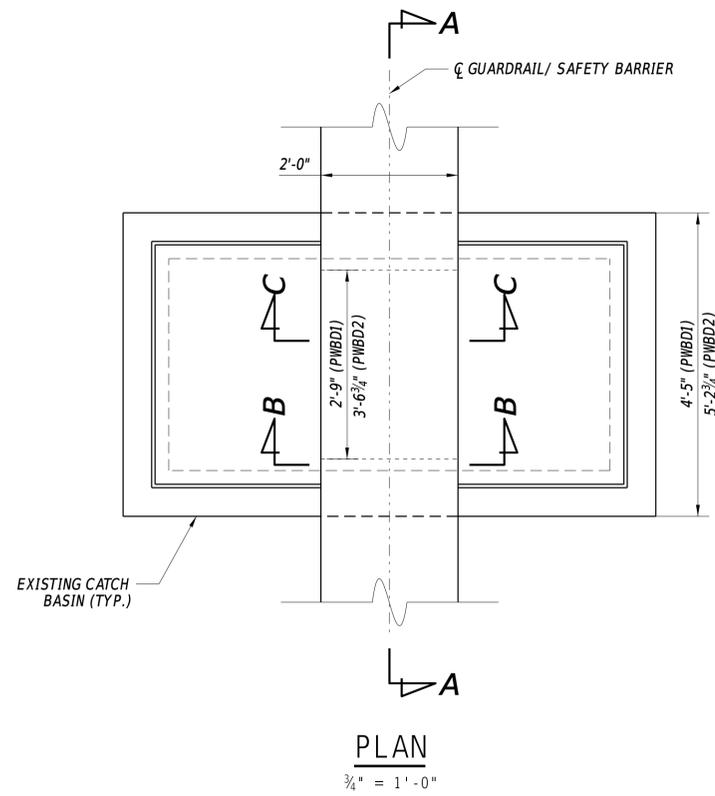
NOT TO SCALE

**US 13 MEDIAN BARRIER REPLACEMENT, SR 1 TO RED LION ROAD**

CONTRACT	BRIDGE NO.	N/A
T201900704	DESIGNED BY:	T. LAWLESS
COUNTY	CHECKED BY:	J. HASTINGS
NEW CASTLE		

CONSTRUCTION DETAILS

SECTION
PD/BR
SHEET NO.
13



180° HOOKS				
BAR SIZE	DIAMETER, d (INCHES)	D	A OR G	J
4	0.500	3"	5"	8"
5	0.625	3 $\frac{3}{4}$ "	6"	10"

- NOTE:
- THE PLANS WERE PREPARED WITH THE ASSUMPTION THAT THE CONTRACTOR WILL PRECAST THE MODIFIED DRAINAGE INLET TOP UNIT.
  - THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS OF THE EXISTING CATCH BASINS PRIOR TO FABRICATION OF THE PRECAST MODIFIED DRAINAGE INLET TOP UNIT.
  - REFER TO SPECIAL PROVISION #602508 AND CONTRACT NO. 83-101-04 FOR ADDITIONAL INFORMATION.
  - REINFORCING STEEL SHALL HAVE A 2 $\frac{1}{2}$ " CLEAR COVER.
  - THE MODIFIED 4B1 BAR IS STRICTLY INTENDED TO CONNECT THE BARRIER TO THE MODIFIED DRAINAGE INLET TOP UNIT. THE CONTRACTOR SHALL INSTALL ALL SECTIONS OF 32" CONCRETE SAFETY BARRIER (F SHAPE) IN ACCORDANCE WITH DELDOT STANDARD B-14.

INLET GRATES NOTE:

- THE PWBD GRATE DETAILS CAN BE FOUND ONLINE IN THE DELDOT DESIGN RESOURCE CENTER (DRC) IN THE PRE-1997 STANDARD CONSTRUCTION DETAILS, UNDER PARKWAY CATCH BASINS STANDARD SHEET D-2-4.

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ADDENDA / REVISIONS

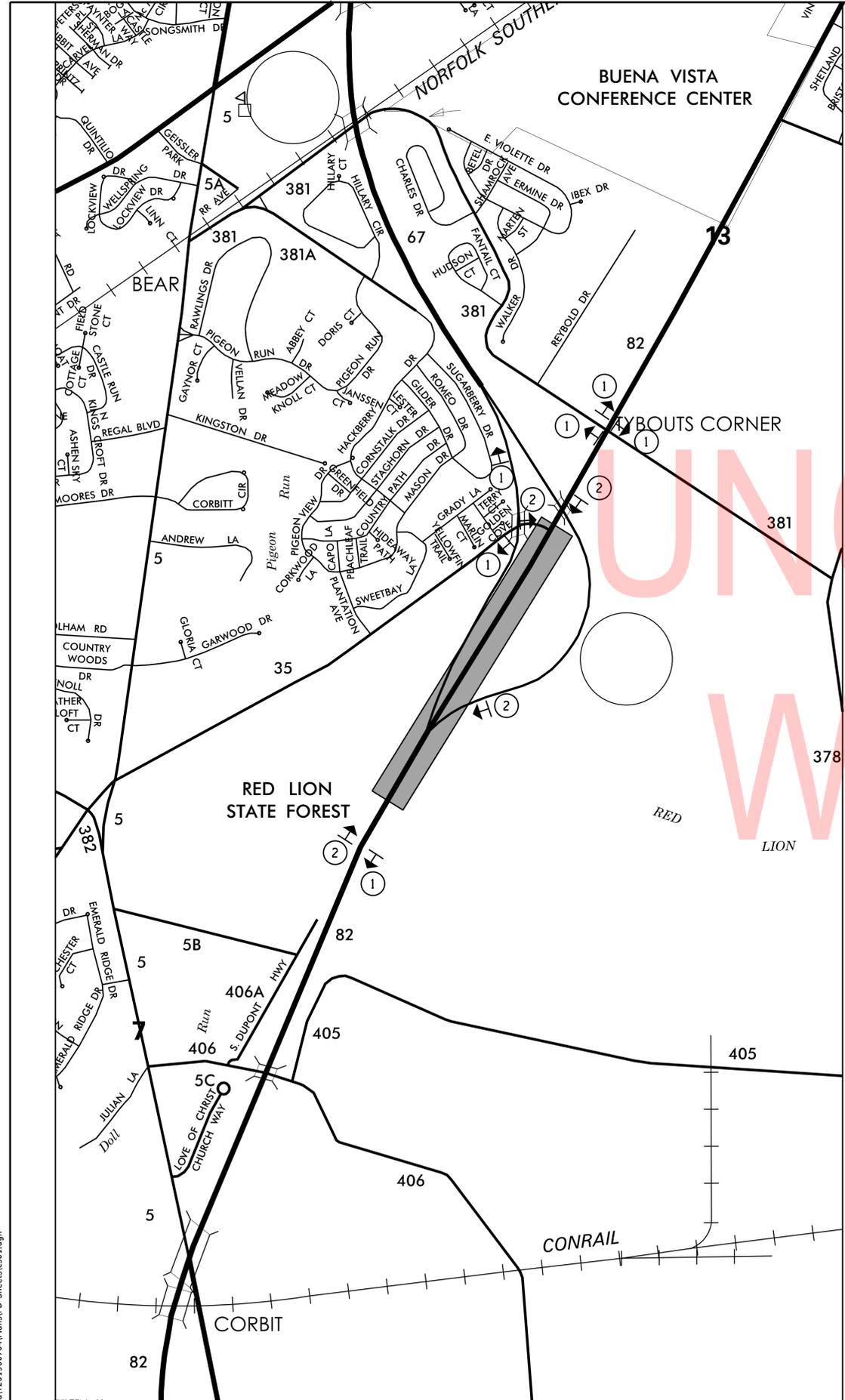
NOT TO SCALE

US 13 MEDIAN BARRIER REPLACEMENT, SR 1 TO RED LION ROAD

CONTRACT	BRIDGE NO.	N/A
T201900704	DESIGNED BY:	P. HUHNS
COUNTY	CHECKED BY:	J. HASTINGS
NEW CASTLE		

CONSTRUCTION DETAILS

SECTION
BR/PD
SHEET NO.
14



### WARNING SIGN LEGEND

 ROAD WORK AHEAD W20-01F ①	 END ROAD WORK G20-02 ②
 LEFT SHOULDER CLOSED W21-5dLF	 LEFT LANE CLOSED AHEAD W20-5LF

**CONSTRUCTION PHASING & M.O.T**

CONSTRUCTION WARNING SIGN LOCATION

### LANE CLOSURE MATRIX

**ALLOWABLE CLOSURES TIMES - US13 NB**

	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM
SUNDAY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MONDAY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TUESDAY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WEDNESDAY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
THURSDAY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
FRIDAY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SATURDAY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

X TRAVEL LANES PERMITTED TO BE CLOSED  
 NO TRAVEL OR TURN LANE CLOSURES PERMITTED DURING PHASE 1

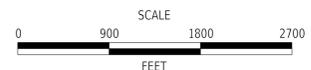
**ALLOWABLE CLOSURES TIMES - US13 SB**

	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM
SUNDAY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MONDAY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TUESDAY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WEDNESDAY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
THURSDAY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
FRIDAY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SATURDAY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

X TRAVEL LANES PERMITTED TO BE CLOSED  
 NO TRAVEL OR TURN LANE CLOSURES PERMITTED

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ADDENDA / REVISIONS



## US 13 MEDIAN BARRIER REPLACEMENT, SR 1 TO RED LION ROAD

CONTRACT	BRIDGE NO.	N/A
T201900704	DESIGNED BY:	T. LAWLESS
COUNTY	CHECKED BY:	G. SPADAFINO
NEW CASTLE		

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

SECTION	
SHEET NO.	15

**MAINTENANCE OF TRAFFIC NOTES:**

1. MAINTENANCE OF TRAFFIC DURING LANE CLOSURES AND LANE SHIFTS SHALL CONFORM TO TYPICAL APPLICATION 33 (SOUTHBOUND US 13 LANE CLOSURE), TA-34 (NORTHBOUND MEDIAN CLOSURE), AND TA-35D (LANE STRIPING) OF THE DELAWARE MUTCD.
2. A. THE USE OF MILLINGS AND GRADED AGGREGATE BASE COURSE (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 DOCUMENT. TAPER MILL BITUMINOUS CONCRETE SHALL BE PAID UNDER THE BITUMINOUS CONCRETE MILLING ITEM.
- B. MILLINGS OR GABC SHALL BE USED AT THE FOLLOWING LOCATION 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 OF COLD PATCH. ALL MILLINGS AND GABC WILL BE ROLLED AND COMPACTED TO HELP PREVENT THE MATERIAL FROM UNRAVELLING:
  - a. EDGE DROP-OFFS ADJACENT TO LIVE ROADWAY (LANES AND SHOULDERS) AND THE PROPOSED ROAD CONSTRUCTION
  - b. 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. 801000 -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 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 THE ACCORDANCE WITH TABLE 6G-1 OF THE DELAWARE MUTCD.

3. A TYPE II TRUCK MOUNTED ATTENUATOR (TMA) SHALL BE REQUIRED ON THIS PROJECT DURING THE FOLLOWING PAVEMENT OPERATIONS: TEMPORARY/PERMANENT PAVEMENT MARKINGS, ROADSIDE SPRAYING, PATCHING, MILLING, SWEEPING, TEMPORARY TRAFFIC BARRIER PLACEMENT OR AS DIRECTED BY THE ENGINEER. THE ROLL AHEAD DISTANCE SHALL BE AS PER THE MANUFACTURER'S RECOMMENDATIONS. THE TMA SHALL CONFORM TO THE REQUIREMENTS OF SECTION 6F OF THE DELAWARE MUTCD.
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 ATSSA SUPERVISOR IS INCIDENTAL TO ITEM 801000.

5. CONTRACTOR SHALL ENTER AND EXIT THE WORK AREA IN THE DIRECTION OF TRAFFIC FLOW.

**EROSION AND SEDIMENT CONTROL NOTES:**

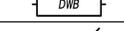
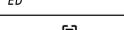
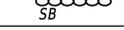
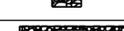
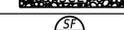
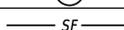
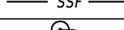
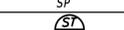
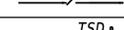
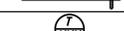
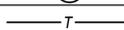
1. THE DISTURBED AREA FOR THIS PROJECT IS 0.00 ACRES.
2. THE SEDIMENT AND STORMWATER MANAGEMENT PLANS HAVE BEEN APPROVED BY DELDOT'S STORMWATER ENGINEER UNDER DELDOT'S DELEGATED AUTHORITY. THE SEDIMENT AND STORMWATER MANAGEMENT PLANS ARE VALID FOR A FIVE YEAR PERIOD, BEGINNING ON THE DATE THE STORMWATER 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.

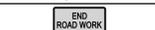
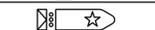
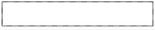
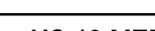
EROSION POTENTIAL FOR THIS PROJECT	CONTRACTOR EROSION AND SEDIMENT CONTROL SUPERVISOR REQUIREMENT
( X ) INSIGNIFICANT	NONE
( ) MINOR	CONTRACTOR TRAINING PROGRAM, AS DEFINED IN SECTION 6.2 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
( ) MAJOR	CERTIFIED CONSTRUCTION REVIEWER (CCR), AS DEFINED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

**GENERAL NOTES:**

1. THE ENGINEER RESERVES THE RIGHT TO MODIFY THE TRAFFIC CONTROL AS FIELD CONDITIONS DICTATE.
2. ALL LANE CLOSURES MAY ONLY OCCUR DURING ACCEPTABLE LANE CLOSURE HOURS IN ACCORDANCE WITH THE LANE CLOSURE MATRIX.
3. WARNING SIGN PLACEMENT SHALL BE DICTATED BY EACH PHASE. WARNING SIGN PLACEMENT SHOWN IN THE GENERAL LAYOUT SHOWS THE FURTHEST LOCATION ANY ONE SIGN MIGHT BE LOCATED.
4. CONTRACTOR SHALL INSTALL VMS BOARDS ON US 13 AND SR 1 FOR PUBLIC NOTIFICATION 10 DAYS PRIOR TO CONSTRUCTION. LOCATION AND MESSAGE SHALL BE COORDINATED AND APPROVED BY THE DISTRICT TRAFFIC SAFETY OFFICER.
5. CONTRACTOR SHALL MAINTAIN THE LEFT TURN LANE FROM NORTHBOUND US 13 TO RED LION ROAD DURING PHASE 1. CONTRACTOR SHALL CONTACT THE TRAFFIC SIGNALS SECTION PRIOR TO THE BEGINNING OF PHASE 2, TO REQUEST THE ADJUSTMENT OF SIGNAL PHASING FOR THE INTERSECTION OF US 13 AND RED LION ROAD; DURING THE LEFT TURN LANE CLOSURE.
6. CONTRACTOR MUST PROTECT EXPOSED GUARDRAIL AND BARRIER ENDS AT ALL TIMES WITH APPROPRIATE TRAFFIC CONTROL DEVICES.
7. CONTRACTOR SHALL COORDINATE WITH DELDOT TMC FOR SIGNAL TIMING ADJUSTMENTS WHEN CLOSING THE LEFT TURN LANE AT US 13 N/B AT RED LION ROAD AS PER JIM BUNTING.
8. THE ANTICIPATED DURATION FOR THE LEFT TURN LANE CLOSURE AND DETOUR IS 25 DAYS.

UNOFFICIAL WEBSITE COPY

EROSION & SEDIMENT CONTROL	
	COMPOST FILTER LOG
	COMPOST FILTER LOG / LENGTH
	DEWATERING BAG
	DEWATERING BASIN
	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
	PORTABLE SEDIMENT TANK
	SANDBAG DIKE
	SANDBAG DIVERSION
	STONE CHECK DAM
	STABILIZED CONSTRUCTION ENTRANCE
	SILT FENCE / LENGTH
	SILT FENCE
	REINFORCED SILT FENCE / LENGTH
	REINFORCED SILT FENCE
	SUPER SILT FENCE / LENGTH
	SUPER SILT FENCE
	SUMP PIT
	SEDIMENT TRAP / NUMBER
	SEDIMENT TRAP
	SEDIMENT TRAP WITH INLET AS OUTLET
	SEDIMENT TRAP PIPE OUTLET
	STILLING WELL
	TEMPORARY SWALE
	TEMPORARY SLOPE DRAIN
	TURBIDITY CURTAIN / LENGTH
	TURBIDITY CURTAIN

CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
	CONSTRUCTION SAFETY FENCE / LENGTH
	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
	PHASING TRAFFIC FLOW ARROW
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW
	TRUCK WITH MOUNTED ATTENUATOR
	WORK AREA - ACTIVE PHASE

ADDENDA / REVISIONS

NOT TO SCALE

**US 13 MEDIAN BARRIER REPLACEMENT, SR 1 TO RED LION ROAD**

CONTRACT	BRIDGE NO.	N/A
T201900704	DESIGNED BY:	T. LAWLESS
COUNTY	CHECKED BY:	G. SPADAFINO
NEW CASTLE		

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

SECTION
PD
SHEET NO.
16

**SEQUENCE OF CONSTRUCTION NOTES**

**PHASE 1**

1. INSTALL ALL TEMPORARY TRAFFIC CONTROL DEVICES. FOLLOW TA-33 FOR THE LANE CLOSURE ON US 13 SB AND TA-34 FOR THE US 13 NB MEDIAN/SHOULDER CLOSURE.
2. REMOVE EXISTING CONCRETE MEDIAN BARRIER TO TOP OF CONCRETE SLAB WORKING FROM SOUTH TO NORTH.
3. EXCAVATE 2' WIDE CONCRETE BARRIER FOUNDATION AND 2' WIDE CONCRETE PAVEMENT ON EACH SIDE.
4. BACKFILL AND CONSTRUCT GABC PER TYPICAL SECTION.
5. INSTALL PROPOSED INLET TOPS AND INSTALL/REPLACE GRATES ON THE SAME DAY.
6. INSTALL 2" TYPE C SUPERPAVE OVERLAY IN SHOULDER TO LIMITS SHOWN ON TYPICAL SECTIONS (6' WIDTH)
7. INSTALL W-BEAM GUARDRAIL FROM SOUTHERN END TO NORTHERN END.
8. INSTALL GUARDRAIL TO BARRIER CONNECTOR, TO TRANSITION BARRIER, SEE CD-01 SHEET, AS SHOWN ON THE PLANS
9. INSTALL BARRIER SECTION AND CONNECT TO EXISTING SIGN STRUCTURE BARRIER SECTION, AS SHOWN ON THE PLANS.
10. INSTALL TRANSITION BARRIER TO GUARDRAIL CONNECTION, NORTH OF THE SIGN STRUCTURE, AS SHOWN ON THE PLANS. CONTINUE TO INSTALL W-BEAM GUARDRAIL FROM SOUTH TO NORTH.
11. REMOVE ALL TEMPORARY TRAFFIC CONTROL WHEN WORK FOR THIS PHASE IS COMPLETED

**BARRIER SCHEDULE**

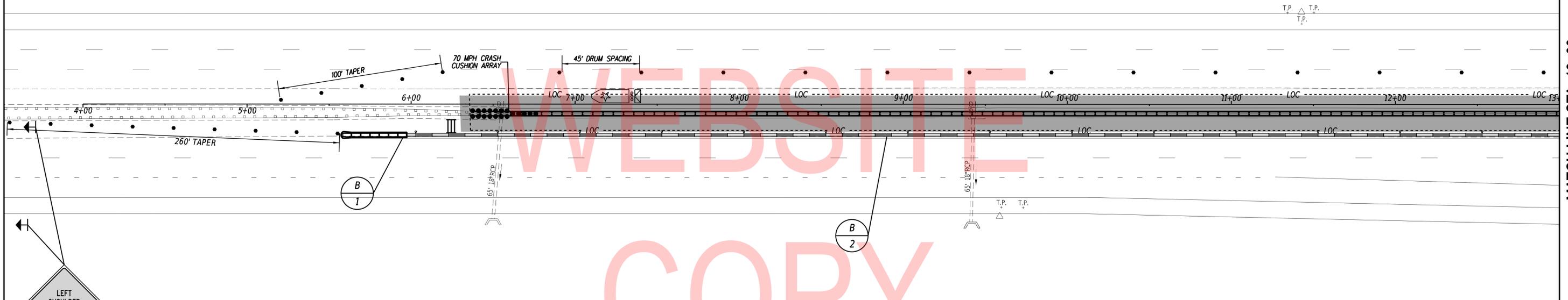
NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	TEMPORARY IMPACT ATTENUATOR - NON GATING, REDIRECTIVE, TEST LEVEL 3	23.00'
2	TEMPORARY P.C.C. SAFETY BARRIER, UNPINNED	325.00'

**TAPER LENGTH SCHEDULE**

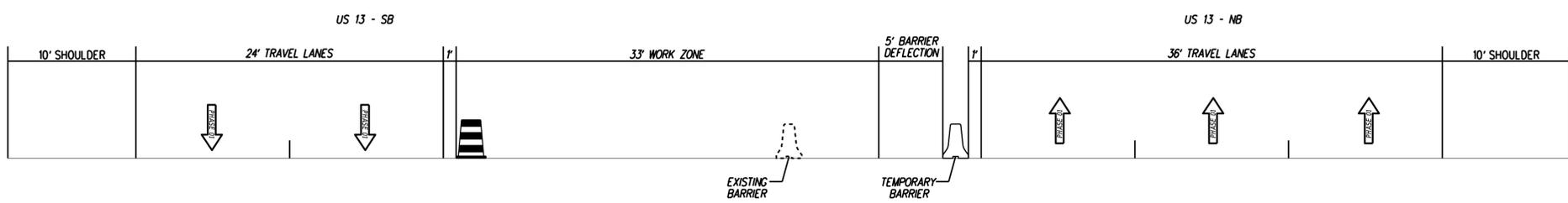
ROAD NAME	SPEED LIMIT (S)	TYPE OF TAPER	TAPER WIDTH (W)	TAPER CALC	TAPER
US 13 N/B	65 MPH	SHOULDER (L/3)	12'	$L = WS = 780'$	260'
US 13 S/B	65 MPH	DOWNSTREAM	12'	NONE	100'

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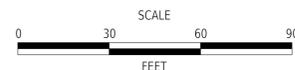
WEBSITE COPY



MATCH LINE STA. 13+00



ADDENDA / REVISIONS



**US 13 MEDIAN BARRIER REPLACEMENT, SR 1 TO RED LION ROAD**

CONTRACT	BRIDGE NO.	N/A
T201900704	DESIGNED BY:	T. LAWLESS
COUNTY	CHECKED BY:	G. SPADAFINO
NEW CASTLE		

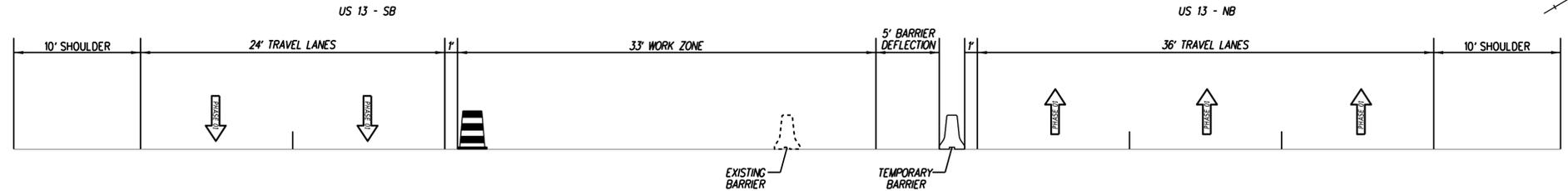
**CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 1**

SECTION
PD
SHEET NO.
17

**SEQUENCE OF CONSTRUCTION NOTES**

**PHASE 1**

1. INSTALL ALL TEMPORARY TRAFFIC CONTROL DEVICES. FOLLOW TA-33 FOR THE LANE CLOSURE ON US 13 SB AND TA-34 FOR THE US 13 NB MEDIAN/SHOULDER CLOSURE.
2. REMOVE EXISTING CONCRETE MEDIAN BARRIER TO TOP OF CONCRETE SLAB WORKING FROM SOUTH TO NORTH.
3. EXCAVATE 2' WIDE CONCRETE BARRIER FOUNDATION AND 2' WIDE CONCRETE PAVEMENT ON EACH SIDE.
4. BACKFILL AND CONSTRUCT GABC PER TYPICAL SECTION.
5. INSTALL PROPOSED INLET TOPS AND INSTALL/REPLACE GRATES ON THE SAME DAY.
6. INSTALL 2" TYPE C SUPERPAVE OVERLAY IN SHOULDER TO LIMITS SHOWN ON TYPICAL SECTIONS (6' WIDTH)
7. INSTALL W-BEAM GUARDRAIL FROM SOUTHERN END TO NORTHERN END.
8. INSTALL GUARDRAIL TO BARRIER CONNECTOR, TO TRANSITION BARRIER, SEE CD-01 SHEET, AS SHOWN ON THE PLANS
9. INSTALL BARRIER SECTION AND CONNECT TO EXISTING SIGN STRUCTURE BARRIER SECTION, AS SHOWN ON THE PLANS.
10. INSTALL TRANSITION BARRIER TO GUARDRAIL CONNECTION, NORTH OF THE SIGN STRUCTURE, AS SHOWN ON THE PLANS. CONTINUE TO INSTALL W-BEAM GUARDRAIL FROM SOUTH TO NORTH.
11. REMOVE ALL TEMPORARY TRAFFIC CONTROL WHEN WORK FOR THIS PHASE IS COMPLETED



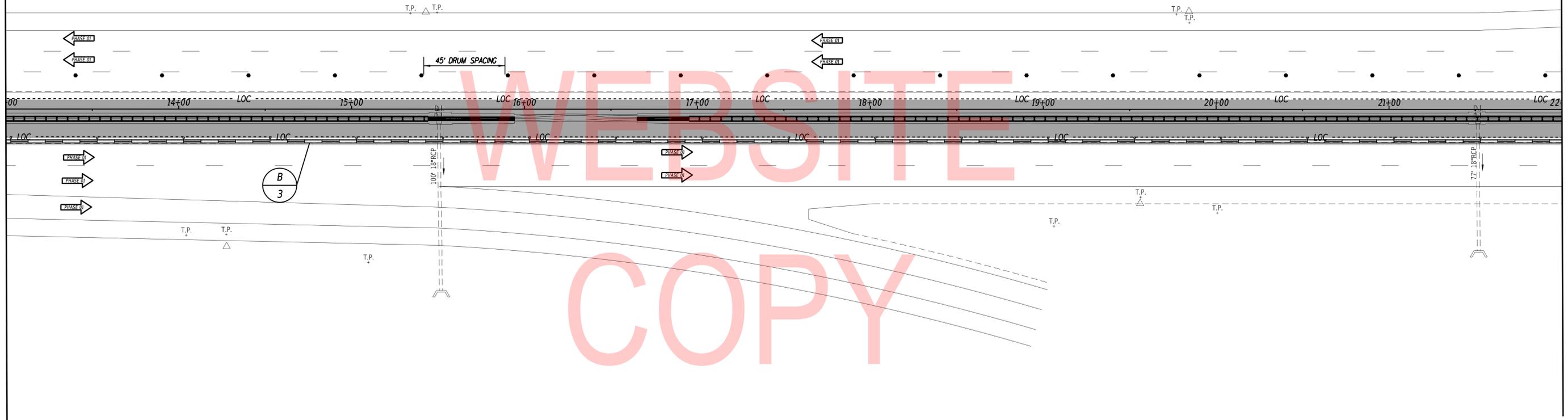
UNOFFICIAL

WEBSITE

COPY

MATCH LINE STA. 13+00

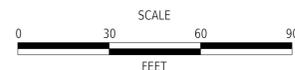
MATCH LINE STA. 22+00



**BARRIER SCHEDULE**

NO.	ITEM DESCRIPTION / TYPE	LENGTH
3	TEMPORARY P.C.C. SAFETY BARRIER, UNPINNED	900.00'

ADDENDA / REVISIONS



**US 13 MEDIAN BARRIER REPLACEMENT, SR 1 TO RED LION ROAD**

CONTRACT	BRIDGE NO.	N/A
T201900704	DESIGNED BY:	T. LAWLESS
COUNTY	CHECKED BY:	G. SPADAFINO
NEW CASTLE		

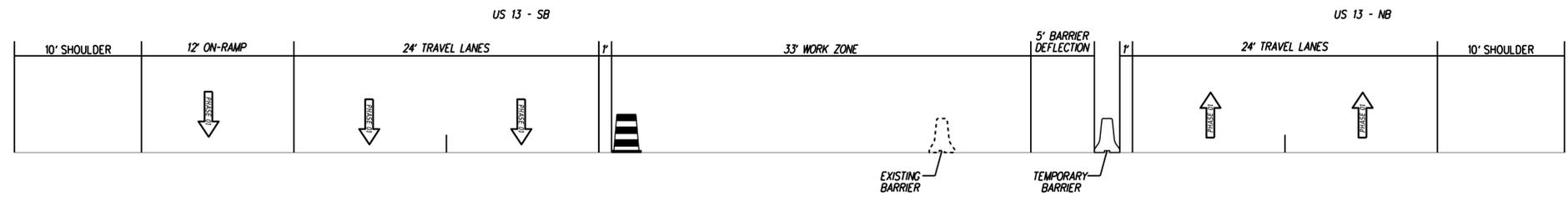
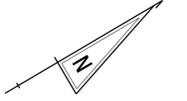
**CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 1**

SECTION
PD
SHEET NO.
18

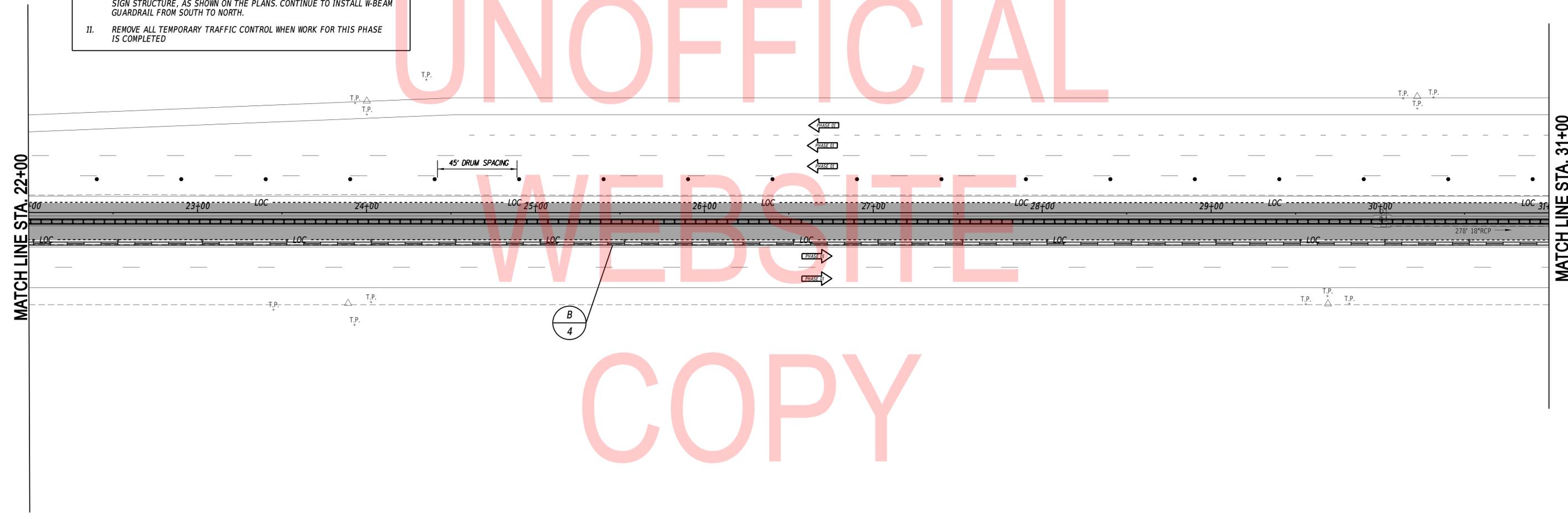
**SEQUENCE OF CONSTRUCTION NOTES**

**PHASE 1**

1. INSTALL ALL TEMPORARY TRAFFIC CONTROL DEVICES. FOLLOW TA-33 FOR THE LANE CLOSURE ON US 13 SB AND TA-34 FOR THE US 13 NB MEDIAN/SHOULDER CLOSURE.
2. REMOVE EXISTING CONCRETE MEDIAN BARRIER TO TOP OF CONCRETE SLAB WORKING FROM SOUTH TO NORTH.
3. EXCAVATE 2' WIDE CONCRETE BARRIER FOUNDATION AND 2' WIDE CONCRETE PAVEMENT ON EACH SIDE.
4. BACKFILL AND CONSTRUCT GABC PER TYPICAL SECTION.
5. INSTALL PROPOSED INLET TOPS AND INSTALL/REPLACE GRATES ON THE SAME DAY.
6. INSTALL 2" TYPE C SUPERPAVE OVERLAY IN SHOULDER TO LIMITS SHOWN ON TYPICAL SECTIONS (6' WIDTH)
7. INSTALL W-BEAM GUARDRAIL FROM SOUTHERN END TO NORTHERN END.
8. INSTALL GUARDRAIL TO BARRIER CONNECTOR, TO TRANSITION BARRIER, SEE CD-01 SHEET, AS SHOWN ON THE PLANS
9. INSTALL BARRIER SECTION AND CONNECT TO EXISTING SIGN STRUCTURE BARRIER SECTION, AS SHOWN ON THE PLANS.
10. INSTALL TRANSITION BARRIER TO GUARDRAIL CONNECTION, NORTH OF THE SIGN STRUCTURE, AS SHOWN ON THE PLANS. CONTINUE TO INSTALL W-BEAM GUARDRAIL FROM SOUTH TO NORTH.
11. REMOVE ALL TEMPORARY TRAFFIC CONTROL WHEN WORK FOR THIS PHASE IS COMPLETED



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COPY



**BARRIER SCHEDULE**

NO.	ITEM DESCRIPTION / TYPE	LENGTH
4	TEMPORARY P.C.C. SAFETY BARRIER, UNPINNED	900.00'

ADDENDA / REVISIONS

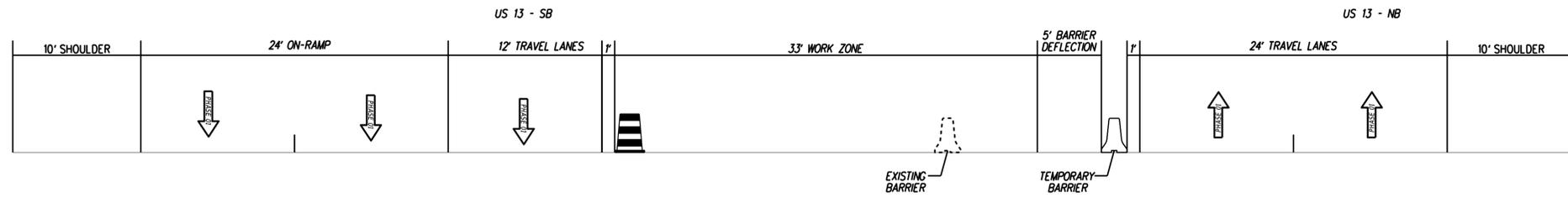
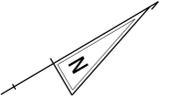


**US 13 MEDIAN BARRIER REPLACEMENT, SR 1 TO RED LION ROAD**

CONTRACT	BRIDGE NO.	N/A
T201900704	DESIGNED BY:	T. LAWLESS
COUNTY	CHECKED BY:	G. SPADAFINO
NEW CASTLE		

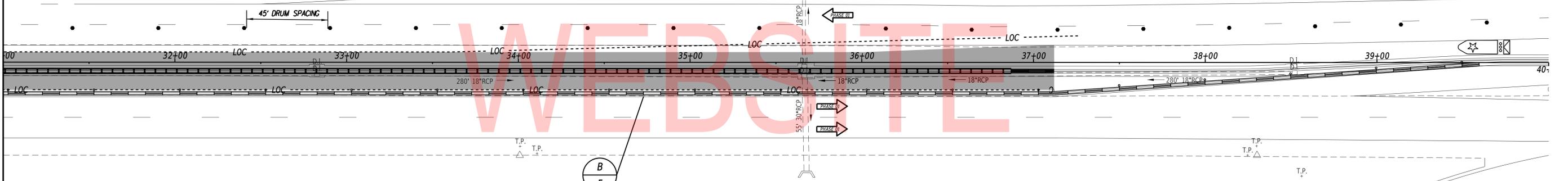
**CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 1**

SECTION
PD
SHEET NO.
19



UNOFFICIAL  
WEBSITE  
COPY

MATCH LINE STA. 31+00



**SEQUENCE OF CONSTRUCTION NOTES**

- PHASE 1**
1. INSTALL ALL TEMPORARY TRAFFIC CONTROL DEVICES. FOLLOW TA-33 FOR THE LANE CLOSURE ON US 13 SB AND TA-34 FOR THE US 13 NB MEDIAN/SHOULDER CLOSURE.
  2. REMOVE EXISTING CONCRETE MEDIAN BARRIER TO TOP OF CONCRETE SLAB WORKING FROM SOUTH TO NORTH.
  3. EXCAVATE 2' WIDE CONCRETE BARRIER FOUNDATION AND 2' WIDE CONCRETE PAVEMENT ON EACH SIDE.
  4. BACKFILL AND CONSTRUCT GABC PER TYPICAL SECTION.
  5. INSTALL PROPOSED INLET TOPS AND INSTALL/REPLACE GRATES ON THE SAME DAY.
  6. INSTALL 2" TYPE C SUPERPAVE OVERLAY IN SHOULDER TO LIMITS SHOWN ON TYPICAL SECTIONS (6' WIDTH)
  7. INSTALL W-BEAM GUARDRAIL FROM SOUTHERN END TO NORTHERN END.
  8. INSTALL GUARDRAIL TO BARRIER CONNECTOR, TO TRANSITION BARRIER, SEE CD-01 SHEET, AS SHOWN ON THE PLANS
  9. INSTALL BARRIER SECTION AND CONNECT TO EXISTING SIGN STRUCTURE BARRIER SECTION, AS SHOWN ON THE PLANS.
  10. INSTALL TRANSITION BARRIER TO GUARDRAIL CONNECTION, NORTH OF THE SIGN STRUCTURE, AS SHOWN ON THE PLANS. CONTINUE TO INSTALL W-BEAM GUARDRAIL FROM SOUTH TO NORTH.
  11. REMOVE ALL TEMPORARY TRAFFIC CONTROL WHEN WORK FOR THIS PHASE IS COMPLETED

**BARRIER SCHEDULE**

NO.	ITEM DESCRIPTION / TYPE	LENGTH
5	TEMPORARY P.C.C. SAFETY BARRIER, UNPINNED	860.00'

ADDENDA / REVISIONS



**US 13 MEDIAN BARRIER REPLACEMENT, SR 1 TO RED LION ROAD**

CONTRACT	BRIDGE NO.	N/A
T201900704	DESIGNED BY:	T. LAWLESS
COUNTY	CHECKED BY:	G. SPADAFINO
NEW CASTLE		

**CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 1**

SECTION	PD
SHEET NO.	20

23-AUG-2019 10:52 Y:\NEWCASTLE\067\road\T201900704\Plans\PD\_Sheets\cs06.dgn

**SEQUENCE OF CONSTRUCTION NOTES**

**PHASE 2**

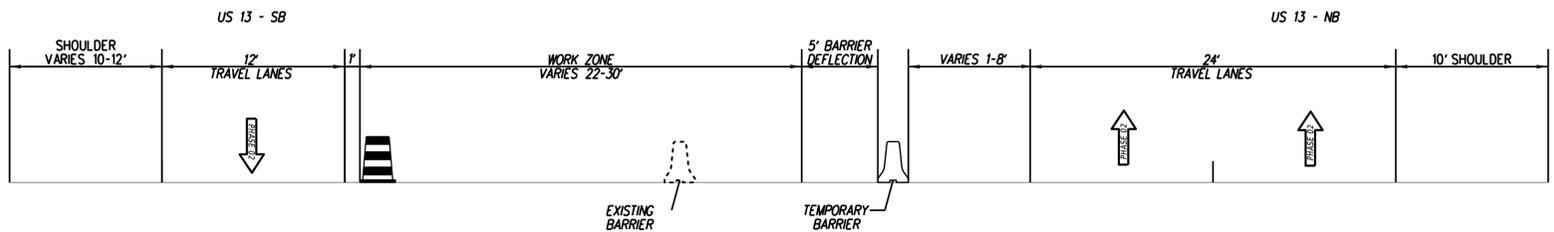
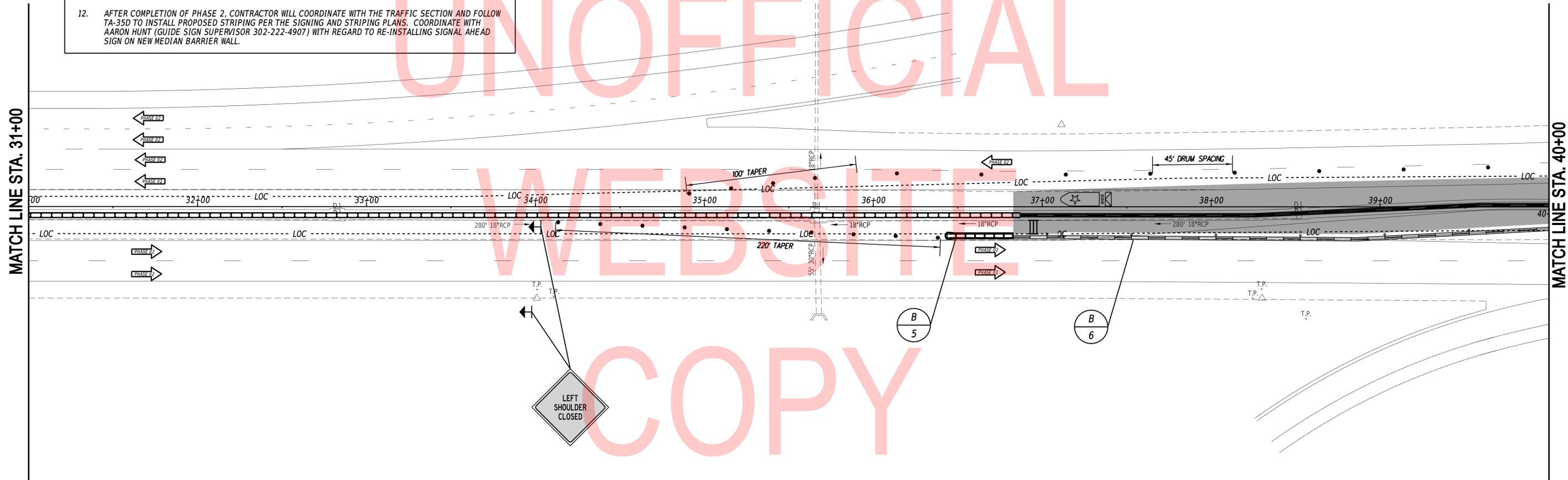
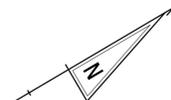
1. CONTRACTOR WILL CONTACT DELDOT TRANSPORTATION MANAGEMENT CENTER (302) 659-4600 IN ADVANCE OF CLOSING THE N/B US13 LEFT TURN LANE ON TO W/B RED LION ROAD TO COORDINATE TRAFFIC SIGNAL TIMING ADJUSTMENTS. CONTRACTOR WILL CONTACT DELDOT TMC IN ADVANCE OF REOPENING THE N/B US 13 LEFT TURN LANE ON TO W/B RED LION ROAD PRIOR TO COMPLETION OF THIS PHASE. ANTICIPATED CLOSURE AND DETOUR DURATION IS 25 DAYS.
2. CONTRACTOR SHALL INSTALL VMS BOARDS ON US 13 AND SR 1 FOR PUBLIC NOTIFICATION 10 DAYS PRIOR TO THE CLOSURE OF THE LEFT TURN LANE. LOCATION OF THE BOARDS SHALL BE COORDINATED AND APPROVED BY THE DISTRICT SAFETY OFFICER.
3. INSTALL ALL TEMPORARY TRAFFIC CONTROL DEVICES. FOLLOW TA-33 FOR THE LANE CLOSURE ON US 13 SB AND TA-34 FOR THE US 13 NB LEFT TURN LANE CLOSURE.
4. REMOVE EXISTING CONCRETE MEDIAN BARRIER TO TOP OF CONCRETE SLAB WORKING FROM SOUTH TO NORTH.
5. EXCAVATE 2' WIDE CONCRETE BARRIER FOUNDATION AND 2' WIDE CONCRETE PAVEMENT ON EACH SIDE.
6. INSTALL PROPOSED BARRIER FOOTER PER TYPICAL SECTION.
7. INSTALL GUARDED INLET TOPS AND INSTALL/REPLACE GRATES ON THE SAME DAY.
8. INSTALL GUARDRAIL TO BARRIER CONNECTOR, TO TRANSITION BARRIER, SEE CD-01 SHEET, AS SHOWN ON THE PLANS.
9. INSTALL BARRIER FROM SOUTH TO NORTH. INSTALL BARRIER OVER INLETS, SEE CD-02 SHEET, AS SHOWN ON THE PLANS.
10. INSTALL PERMANENT IMPACT ATTENUATOR, AS SHOWN ON THE PLANS.
11. REMOVE ALL TEMPORARY TRAFFIC CONTROL AND SEDIMENT CONTROL DEVICES WHEN WORK FOR THIS PHASE IS COMPLETED.
12. AFTER COMPLETION OF PHASE 2, CONTRACTOR WILL COORDINATE WITH THE TRAFFIC SECTION AND FOLLOW TA-35D TO INSTALL PROPOSED STRIPING PER THE SIGNING AND STRIPING PLANS. COORDINATE WITH AARON HUNT (GUIDE SIGN SUPERVISOR 302-222-4907) WITH REGARD TO RE-INSTALLING SIGNAL AHEAD SIGN ON NEW MEDIAN BARRIER WALL.

**BARRIER SCHEDULE**

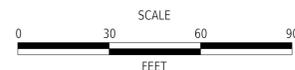
NO.	ITEM DESCRIPTION / TYPE	LENGTH
5	TEMPORARY IMPACT ATTENUATOR - NON GATING, REDIRECTIVE, TEST LEVEL 3	23.00'
6	TEMPORARY P.C.C. SAFETY BARRIER, UNPINNED	318.00'

**TAPER LENGTH SCHEDULE**

ROAD NAME	SPEED LIMIT (S)	TYPE OF TAPER	TAPER WIDTH (W)	TAPER CALC	TAPER
US 13 N/B	55 MPH	SHOULDER (L/3)	12'	$L = WS = 660'$	220'
US 13 S/B	55 MPH	DOWNSTREAM	12'	NONE	100'



ADDENDA / REVISIONS



**US 13 MEDIAN BARRIER REPLACEMENT, SR 1 TO RED LION ROAD**

CONTRACT	BRIDGE NO.	N/A
T201900704	DESIGNED BY:	T. LAWLESS
COUNTY	CHECKED BY:	G. SPADAFINO
NEW CASTLE		

**CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 2**

SECTION
PD
SHEET NO.
21

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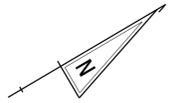
**SEQUENCE OF CONSTRUCTION NOTES**

**PHASE 2**

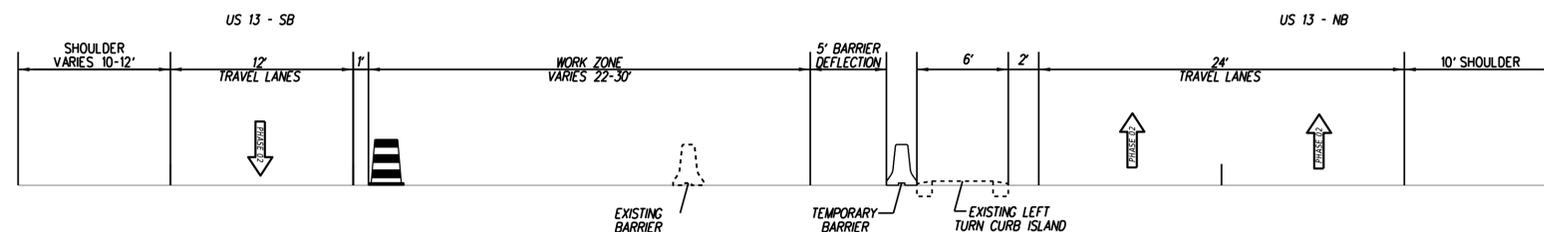
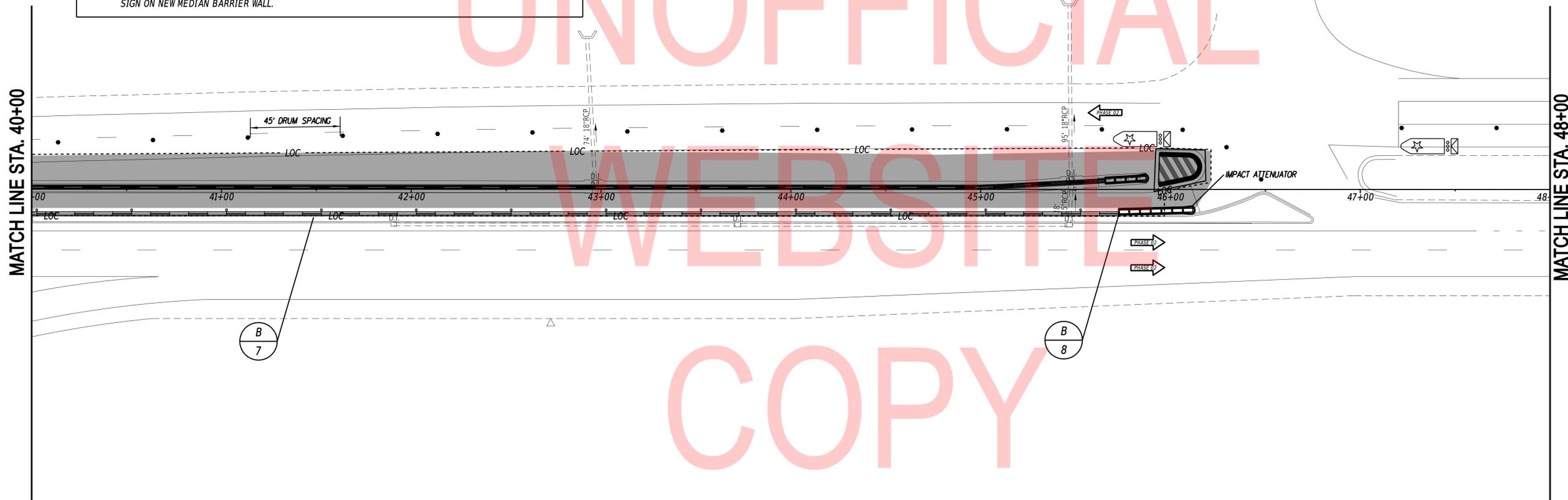
1. CONTRACTOR WILL CONTACT DELDOT TRANSPORTATION MANAGEMENT CENTER (302) 659-4600 IN ADVANCE OF CLOSING THE N/B US13 LEFT TURN LANE ON TO W/B RED LION ROAD TO COORDINATE TRAFFIC SIGNAL TIMING ADJUSTMENTS. CONTRACTOR WILL CONTACT DELDOT TMC IN ADVANCE OF REOPENING THE N/B US 13 LEFT TURN LANE ON TO W/B RED LION ROAD PRIOR TO COMPLETION OF THE THIS PHASE. ANTICIPATED CLOSURE AND DETOUR DURATION IS 25 DAYS.
2. CONTRACTOR SHALL INSTALL VMS BOARDS ON US 13 AND SR 1 FOR PUBLIC NOTIFICATION 10 DAYS PRIOR TO THE CLOSURE OF THE LEFT TURN LANE. LOCATION OF THE BOARDS SHALL BE COORDINATED AND APPROVED BY THE DISTRICT SAFETY OFFICER.
3. INSTALL ALL TEMPORARY TRAFFIC CONTROL DEVICES. FOLLOW TA-33 FOR THE LANE CLOSURE ON US 13 SB AND TA-34 FOR THE US 13 NB LEFT TURN LANE CLOSURE.
4. REMOVE EXISTING CONCRETE MEDIAN BARRIER TO TOP OF CONCRETE SLAB WORKING FROM SOUTH TO NORTH.
5. EXCAVATE 2' WIDE CONCRETE BARRIER FOUNDATION AND 2' WIDE CONCRETE PAVEMENT ON EACH SIDE.
6. INSTALL PROPOSED BARRIER FOOTER PER TYPICAL SECTION.
7. INSTALL PROPOSED INLET TOPS AND INSTALL/REPLACE GRATES ON THE SAME DAY.
8. INSTALL GUARDRAIL TO BARRIER CONNECTOR, TO TRANSITION BARRIER, SEE CD-01 SHEET, AS SHOWN ON THE PLANS.
9. INSTALL BARRIER FROM SOUTH TO NORTH. INSTALL BARRIER OVER INLETS, SEE CD-02 SHEET, AS SHOWN ON THE PLANS.
10. INSTALL PERMANENT IMPACT ATTENUATOR, AS SHOWN ON THE PLANS.
11. REMOVE ALL TEMPORARY TRAFFIC CONTROL AND SEDIMENT CONTROL DEVICES WHEN WORK FOR THIS PHASE IS COMPLETED.
12. AFTER COMPLETION OF PHASE 2, CONTRACTOR WILL COORDINATE WITH THE TRAFFIC SECTION AND FOLLOW TA-35D TO INSTALL PROPOSED STRIPING PER THE SIGNING AND STRIPING PLANS. COORDINATE WITH AARON HUNT (GUIDE SIGN SUPERVISOR 302-222-4907) WITH REGARD TO RE-INSTALLING SIGNAL AHEAD SIGN ON NEW MEDIAN BARRIER WALL.

**BARRIER SCHEDULE**

NO.	ITEM DESCRIPTION / TYPE	LENGTH
7	TEMPORARY P.C.C. SAFETY BARRIER, UNPINNED	573.00
8	TEMPORARY IMPACT ATTENUATOR - NON GATING, REDIRECTIVE, TEST LEVEL 3	23.00



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WEBSITE  
COPY



ADDENDA / REVISIONS



**US 13 MEDIAN BARRIER REPLACEMENT, SR 1 TO RED LION ROAD**

CONTRACT	BRIDGE NO.	N/A
T201900704	DESIGNED BY:	T. LAWLESS
COUNTY	CHECKED BY:	G. SPADAFINO
NEW CASTLE		

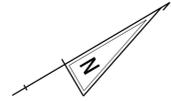
**CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 2**

SECTION	PD
SHEET NO.	22

SEQUENCE OF CONSTRUCTION NOTES

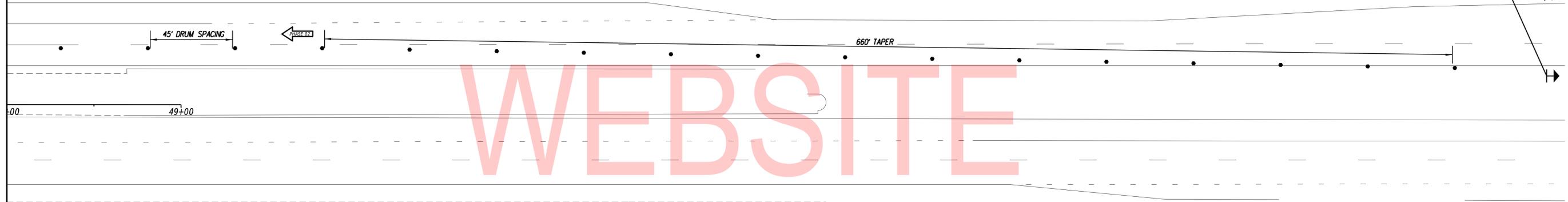
PHASE 2

1. CONTRACTOR WILL CONTACT DELDOT TRANSPORTATION MANAGEMENT CENTER (302) 659-4600 IN ADVANCE OF CLOSING THE N/B US13 LEFT TURN LANE ON TO W/B RED LION ROAD TO COORDINATE TRAFFIC SIGNAL TIMING ADJUSTMENTS. CONTRACTOR WILL CONTACT DELDOT TMC IN ADVANCE OF REOPENING THE N/B US 13 LEFT TURN LANE ON TO W/B RED LION ROAD PRIOR TO COMPLETION OF THE THIS PHASE. ANTICIPATED CLOSURE AND DETOUR DURATION IS 25 DAYS.
2. CONTRACTOR SHALL INSTALL VMS BOARDS ON US 13 AND SR 1 FOR PUBLIC NOTIFICATION 10 DAYS PRIOR TO THE CLOSURE OF THE LEFT TURN LANE. LOCATION OF THE BOARDS SHALL BE COORDINATED AND APPROVED BY THE DISTRICT SAFETY OFFICER.
3. INSTALL ALL TEMPORARY TRAFFIC CONTROL DEVICES. FOLLOW TA-33 FOR THE LANE CLOSURE ON US 13 SB AND TA-34 FOR THE US 13 NB LEFT TURN LANE CLOSURE.
4. REMOVE EXISTING CONCRETE MEDIAN BARRIER TO TOP OF CONCRETE SLAB WORKING FROM SOUTH TO NORTH.
5. EXCAVATE 2' WIDE CONCRETE BARRIER FOUNDATION AND 2' WIDE CONCRETE PAVEMENT ON EACH SIDE.
6. INSTALL PROPOSED BARRIER FOOTER PER TYPICAL SECTION.
7. INSTALL PROPOSED INLET TOPS AND INSTALL/REPLACE GRATES ON THE SAME DAY.
8. INSTALL GUARDRAIL TO BARRIER CONNECTOR, TO TRANSITION BARRIER, SEE CD-01 SHEET, AS SHOWN ON THE PLANS.
9. INSTALL BARRIER FROM SOUTH TO NORTH. INSTALL BARRIER OVER INLETS, SEE CD-02 SHEET, AS SHOWN ON THE PLANS.
10. INSTALL PERMANENT IMPACT ATTENUATOR, AS SHOWN ON THE PLANS.
11. REMOVE ALL TEMPORARY TRAFFIC CONTROL AND SEDIMENT CONTROL DEVICES WHEN WORK FOR THIS PHASE IS COMPLETED.
12. AFTER COMPLETION OF PHASE 2, CONTRACTOR WILL COORDINATE WITH THE TRAFFIC SECTION AND FOLLOW TA-35D TO INSTALL PROPOSED STRIPING PER THE SIGNING AND STRIPING PLANS. COORDINATE WITH AARON HUNT (GUIDE SIGN SUPERVISOR 302-222-4907) WITH REGARD TO RE-INSTALLING SIGNAL AHEAD SIGN ON NEW MEDIAN BARRIER WALL.



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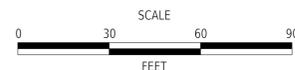
MATCH LINE STA. 48+00



TAPER LENGTH SCHEDULE

ROAD NAME	SPEED LIMIT (S)	TYPE OF TAPER	TAPER WIDTH (W)	TAPER CALC	TAPER
US 13 S/B	55 MPH	SHIFTING	12'	$L = WS = 660'$	660'

ADDENDA / REVISIONS



**US 13 MEDIAN BARRIER  
REPLACEMENT,  
SR 1 TO RED LION ROAD**

CONTRACT	BRIDGE NO.	N/A
T201900704	DESIGNED BY:	T. LAWLESS
COUNTY	CHECKED BY:	G. SPADAFINO
NEW CASTLE		

**CONSTRUCTION PHASING,  
M.O.T., AND EROSION  
CONTROL PLAN - PHASE 2**

SECTION
PD
SHEET NO.
23

**PORTABLE CHANGEABLE MESSAGE SIGNS**

**PRIOR TO DETOUR**

(10 DAYS PRIOR TO BEGINNING OF DETOUR)

PCMS-1

US13  
MEDIAN  
AT SR71

TO CLOSE  
STARTING  
XX/XX/XX

**DURING DETOUR**

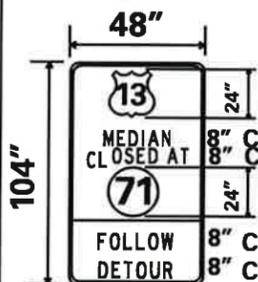
(DISPLAY FOR 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

PCMS-2

US13  
MEDIAN  
AT SR71

CLOSED  
FOLLOW  
DETOUR

**SPECIAL SIGNS**



(Z)

\*DG RETROREFLECTIVE ORANGE BACKGROUND;  
BLACK LEGEND

\*ROUTE SHIELD - WHITE BACKGROUND, BLACK  
LEGEND

PREPARED BY  
DELDOT - TRANSPORTATION SOLUTIONS  
TRAFFIC SAFETY

No. 16731

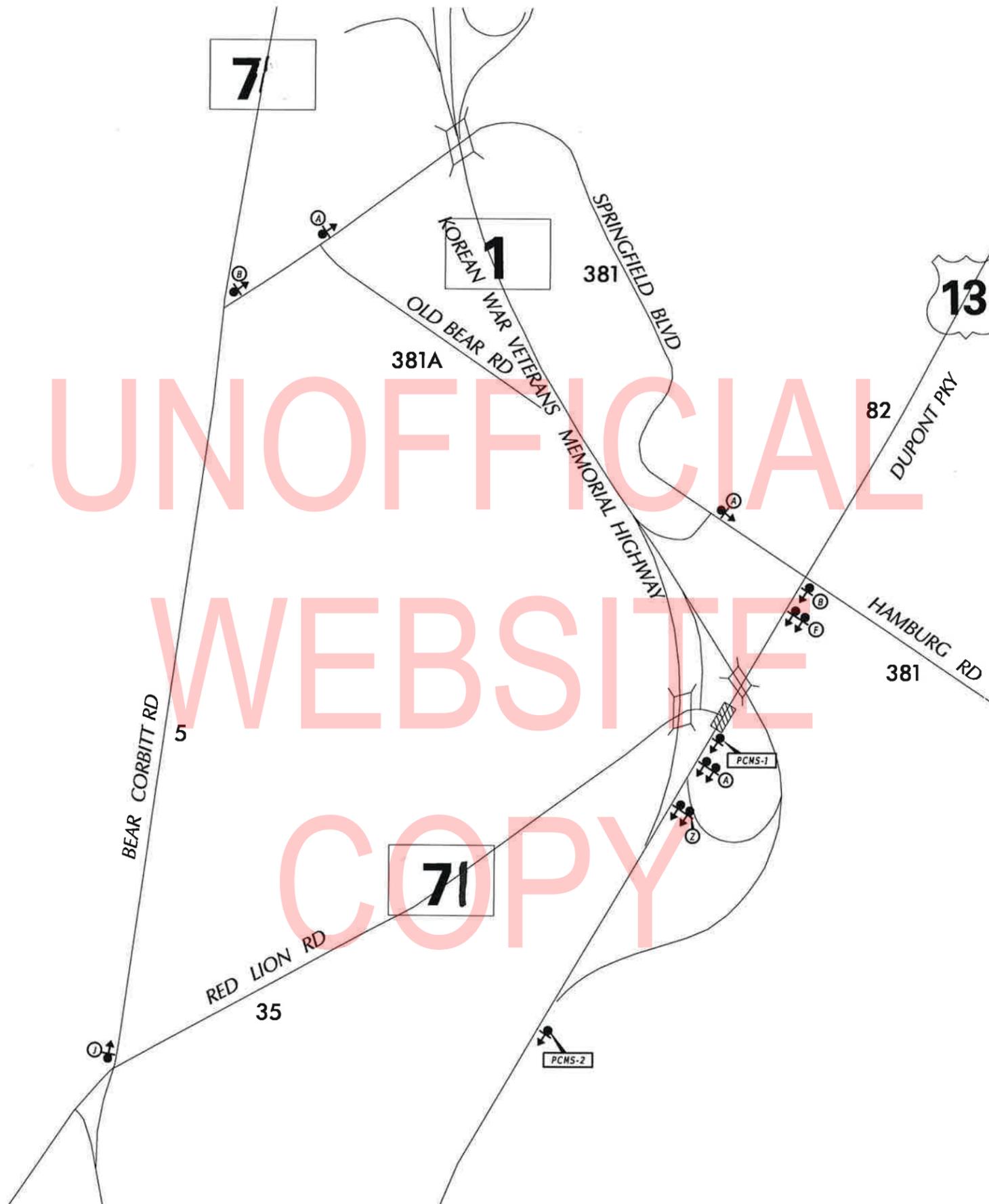
DELAWARE  
PROFESSIONAL ENGINEER

THIS SEAL APPLIES TO ALL SHEETS  
BEARING THE "TS" SECTION DESIGNATION.

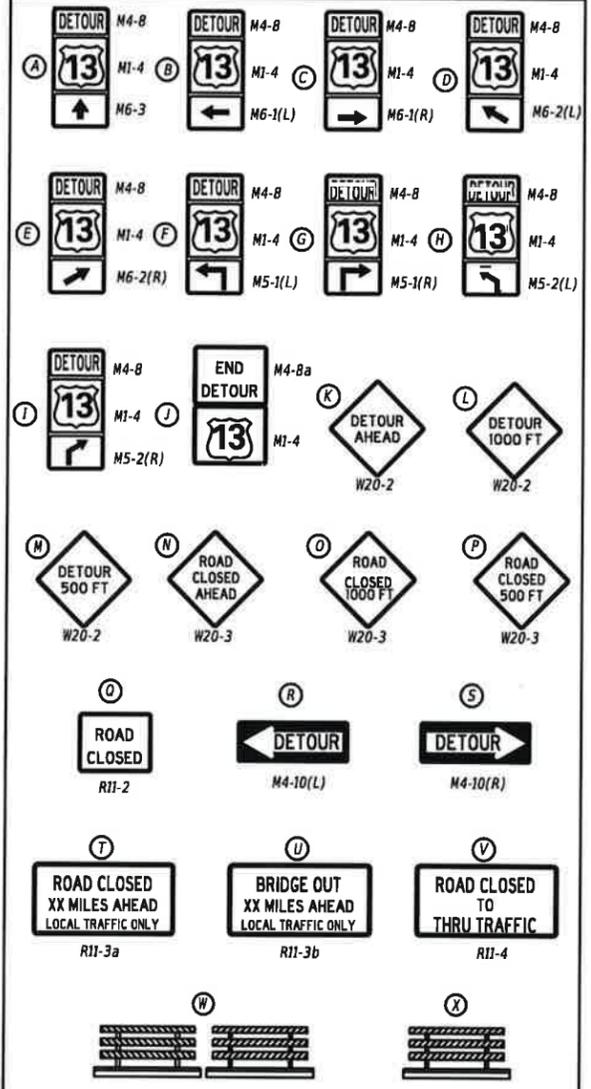
DATE

6/27/19

ADDENDA / REVISIONS



**LEGEND**



**GENERAL NOTES**

- ALL TEMPORARY TRAFFIC CONTROL DEVICES ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR AND SHALL BE IN COMPLIANCE WITH THIS PLAN AND THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (DE MUTCD) LATEST EDITION.
- SIGNS "N" THROUGH "Q" AND "T" AND "V", THE WORD "ROAD" SHALL BE CHANGED TO "RAMP", "RR XING" OR "BRIDGE" WHERE APPLICABLE.
- "W" TYPE 3 BARRICADES AT A ROAD CLOSURE SHALL BE PLACED COMPLETELY ACROSS THE ROADWAY, FROM CURB TO CURB, OR FROM EDGE OF ROAD TO EDGE OF ROAD, WITH THE STRIPES POSITIONED DOWNWARD TOWARD THE CENTER OF THE ROADWAY.
- BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

**CONCURRENCE FOR IMPLEMENTATION**

*[Signature]* 6-27-19  
TRAFFIC SAFETY DATE

NOT TO SCALE

US13 MEDIAN  
BARRIER  
REPLACEMENT

CONTRACT  
T201900704  
COUNTY  
NEW CASTLE

PERMIT NO.  
DESIGNED BY: DBW  
CHECKED BY: MSB

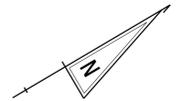
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DETOUR PLAN -  
VEHICULAR  
US13 MEDIAN @ SR71

SECTION  
TS  
SHEET NO.  
2.4



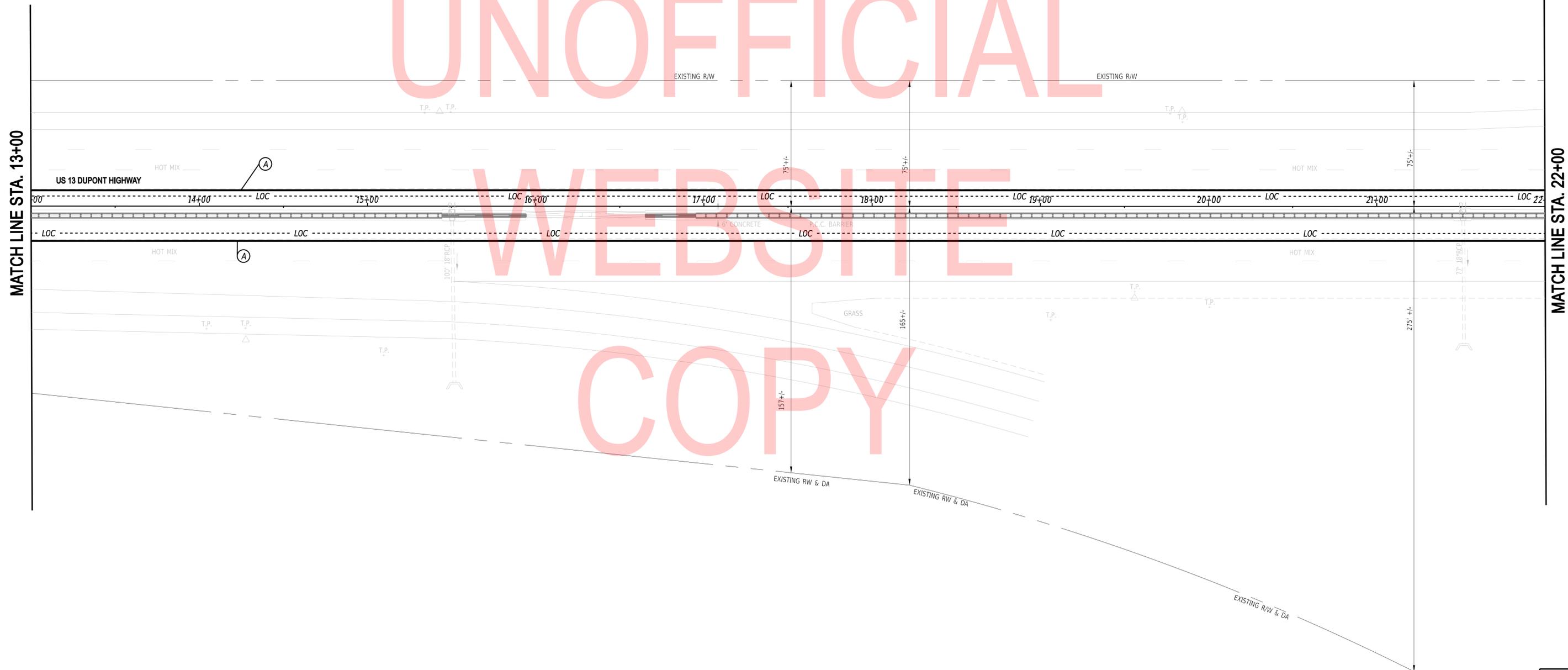
PAVEMENT MARKINGS LEGEND		
SYM	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 817013)	1,800 LF



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WEBSITE

COPY



MATCH LINE STA. 13+00

MATCH LINE STA. 22+00

ADDENDA / REVISIONS



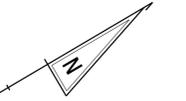
**US 13 MEDIAN BARRIER  
REPLACEMENT,  
SR 1 TO RED LION ROAD**

CONTRACT  
T201900704  
COUNTY  
NEW CASTLE

BRIDGE NO. N/A  
DESIGNED BY: T. LAWLESS  
CHECKED BY: G. SPADAFINO

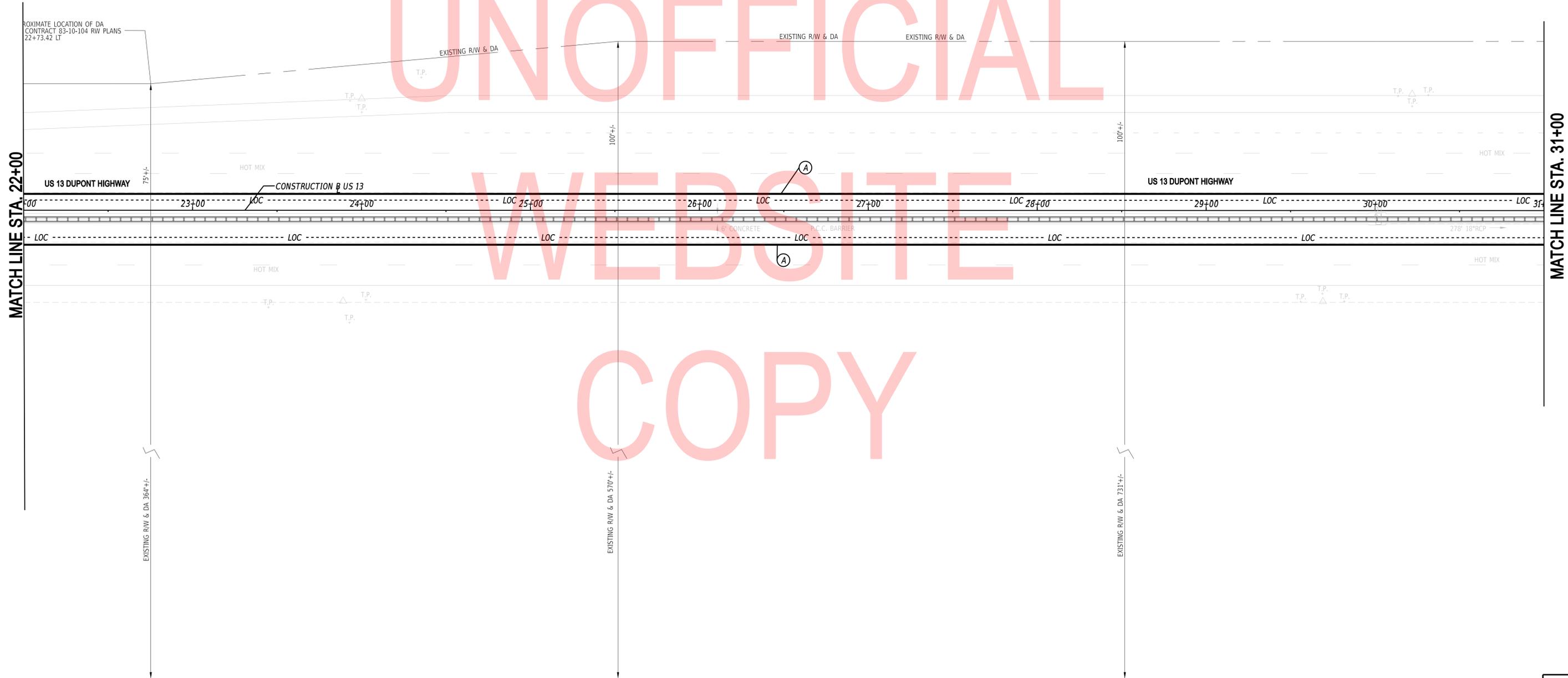
**SIGNING, STRIPING  
AND CONDUIT PLAN**

<b>SS-02</b>
SECTION
PD
SHEET NO.
26



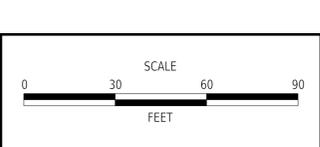
PAVEMENT MARKINGS LEGEND		
SYM	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 817013)	1,800 LF

UNOFFICIAL  
WEBSITE  
COPY



23-AUG-2019  
 10:52  
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ADDENDA / REVISIONS	



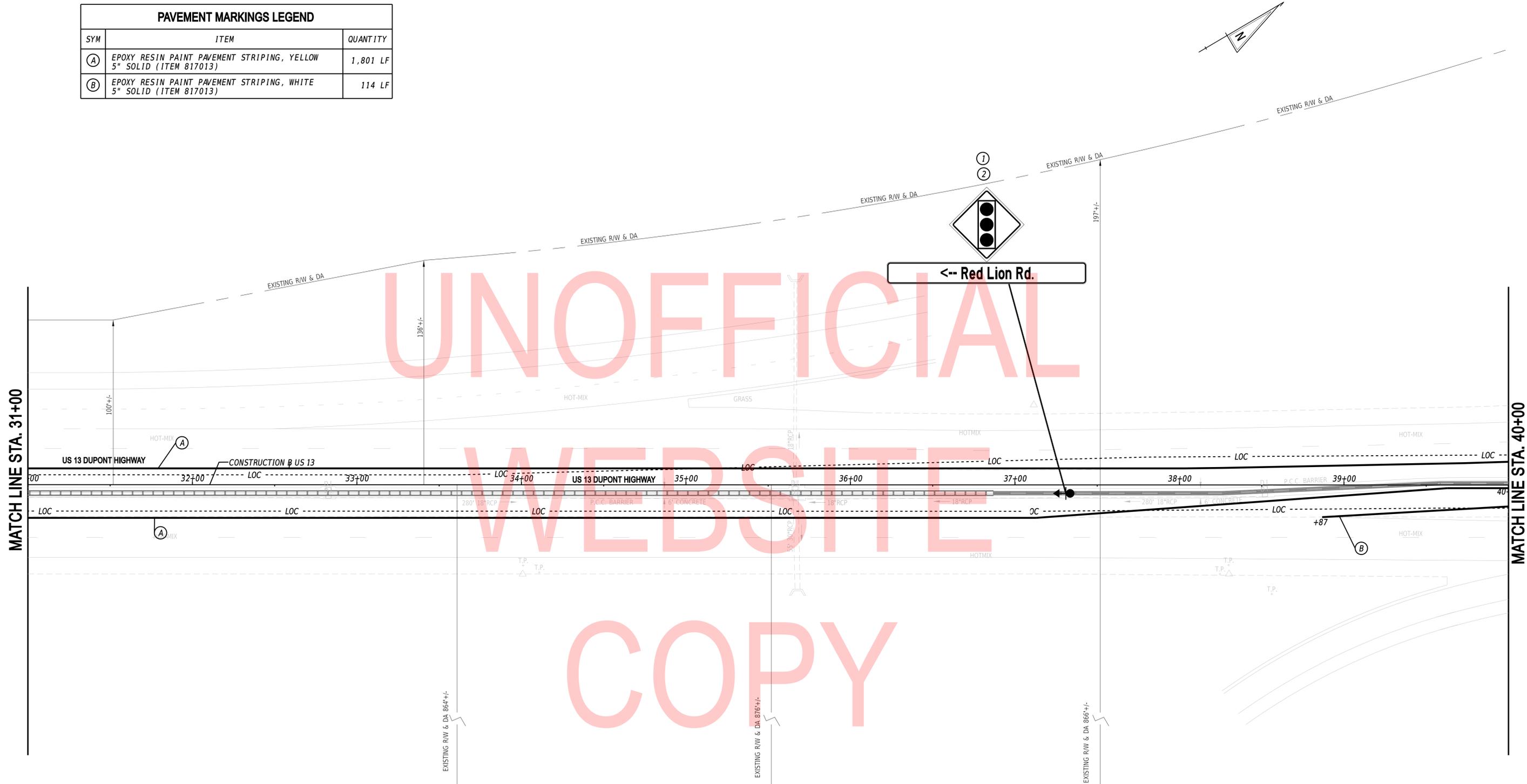
**US 13 MEDIAN BARRIER  
 REPLACEMENT,  
 SR 1 TO RED LION ROAD**

CONTRACT T201900704	BRIDGE NO. N/A
COUNTY NEW CASTLE	DESIGNED BY: T. LAWLESS
	CHECKED BY: G. SPADAFINO

**SIGNING, STRIPING  
 AND CONDUIT PLAN**

<b>SS-03</b>
SECTION PD
SHEET NO. 27

PAVEMENT MARKINGS LEGEND		
SYM	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 817013)	1,801 LF
(B)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 817013)	114 LF



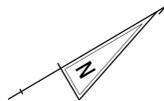
PERMANENT SIGN SCHEDULE																		
SHEET NO.	PLAN IDENTIFIER	SIGN DESIGNATION	QTY.	DESCRIPTION	SIGN WIDTH (IN)	SIGN HEIGHT (IN)	SIGN AREA (SF)	ITEM 819018 SINGLE POST (EACH)			ITEM 819019 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON MULTIPLE SIGN POSTS (SF)			POST INSTALLATION TYPE	Code X11 12' Post (W/ Basepost) (EACH)	ITEM 819016 4' HOLE, 0-6" (EACH)	ITEM 819017 4' HOLE, >6" (EACH)	REMARKS
								SIGN DISPOSITION	REMOVE	INSTALL	SIGN DISPOSITION	REMOVE	INSTALL					
SS-04	1	W3-3(30)	1	Signal Ahead	36	36	9.0	NEW		1			NEW CONCRETE					Install on I-Beam Post by contractor
SS-04	2	W16-8P	1	<-- Red Lion Rd.	36	9	2.3	ADD TO ASSEMBLY		1								

NOTE: CONTRACTOR SHALL COORDINATE WITH AARON HUNT (GUIDE SIGN SUPERVISOR 302-222-4907) WITH REGARD TO RE-INSTALLING A SIGNAL AHEAD SIGN ON THE NEW MEDIAN BARRIER WALL.

23-AUG-2019 10:52 Y:\NEWCASTL\067\road\T201900704\Plans\PD\_Sheets\ss04.dgn

ADDENDA / REVISIONS  	SCALE  FEET	US 13 MEDIAN BARRIER REPLACEMENT, SR 1 TO RED LION ROAD	CONTRACT T201900704 COUNTY NEW CASTLE	BRIDGE NO. N/A DESIGNED BY: T. LAWLESS CHECKED BY: G. SPADAFINO	SIGNING, STRIPING AND CONDUIT PLAN	<b>SS-04</b> SECTION PD SHEET NO. 28
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EXISTING R/W & DA



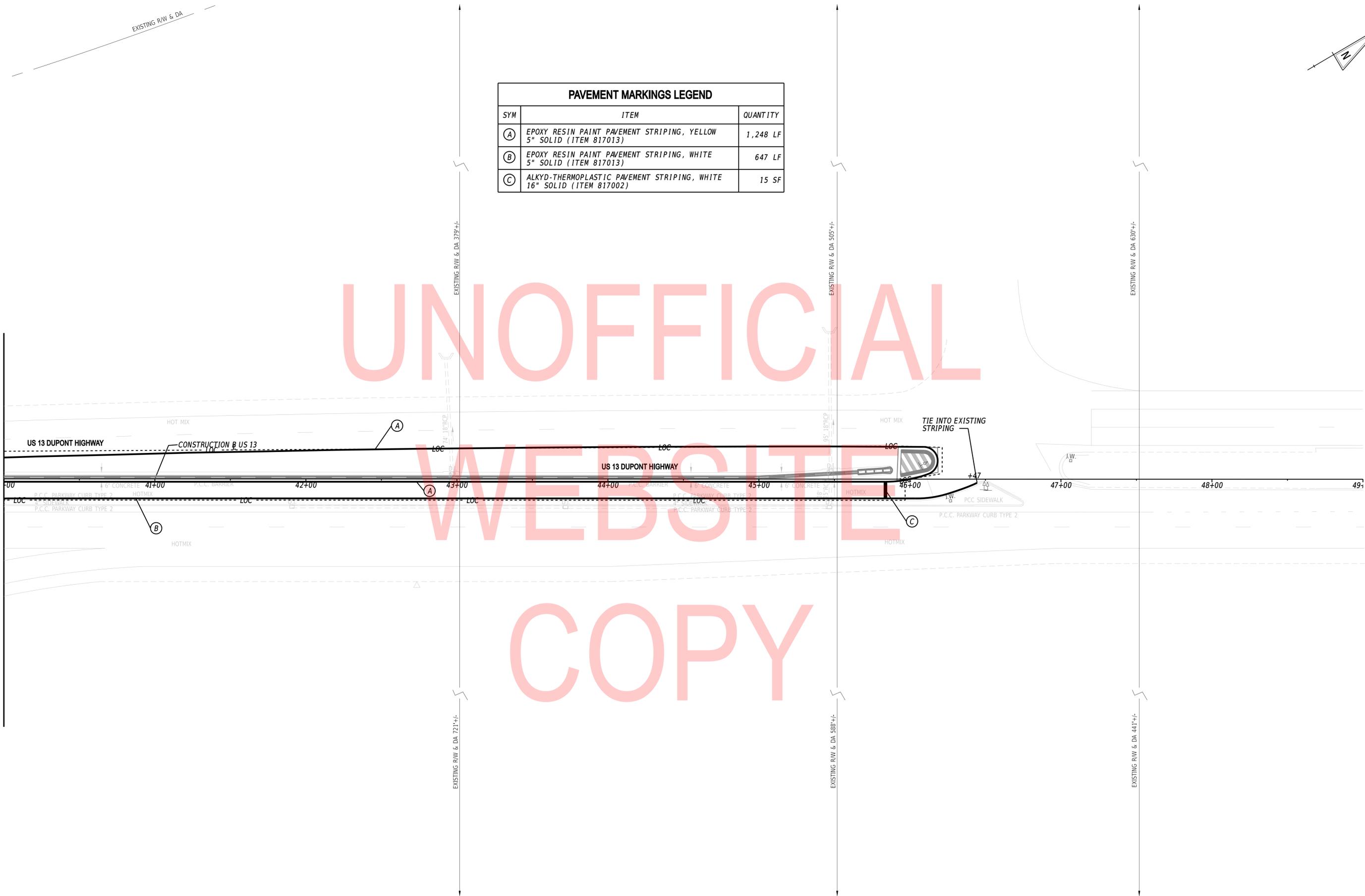
PAVEMENT MARKINGS LEGEND		
SYM	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 817013)	1,248 LF
(B)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 817013)	647 LF
(C)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 817002)	15 SF

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WEBSITE

COPY

MATCH LINE STA. 40+00



ADDENDA / REVISIONS



**US 13 MEDIAN BARRIER  
REPLACEMENT,  
SR 1 TO RED LION ROAD**

CONTRACT	BRIDGE NO.	N/A
T201900704	DESIGNED BY:	T. LAWLESS
COUNTY	CHECKED BY:	G. SPADAFINO
NEW CASTLE		

**SIGNING, STRIPING  
AND CONDUIT PLAN**

<b>SS-05</b>
SECTION
PD
SHEET NO.
29