

GENERAL LOCATION OF CONTRACT

THE STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION



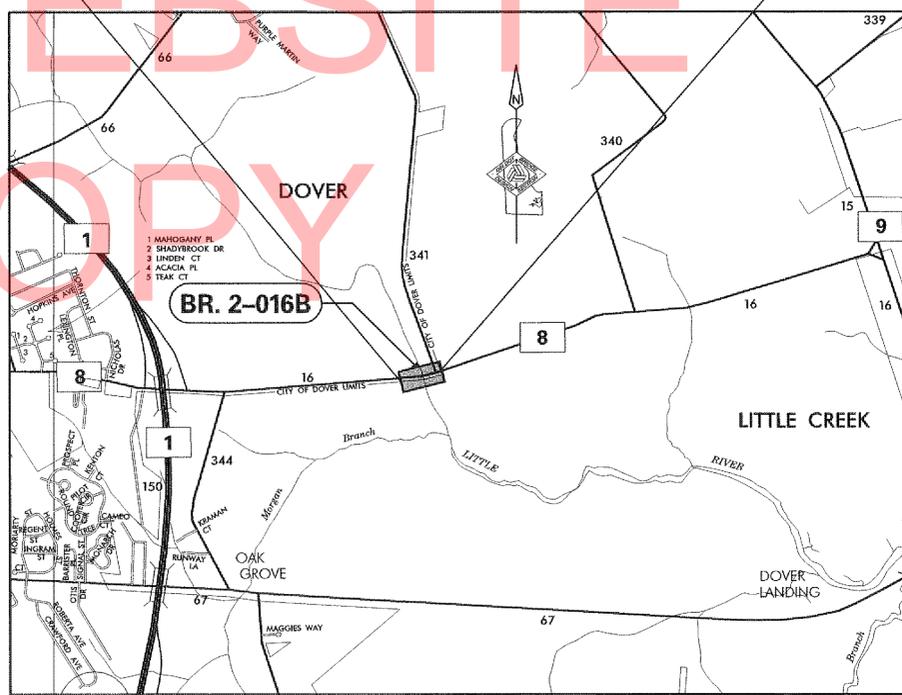
CONSTRUCTION & RIGHT-OF-WAY PLANS FOR:

BR 2-016B ON K016 N. LITTLE CREEK ROAD
OVER LITTLE RIVER

CONTRACT NUMBER: T201207502
FEDERAL AID PROJECT NUMBER: EBHOS-K016(02)

COUNTY: KENT M.R. #: K016

BEGIN CONTRACT STATION 32+00
END CONTRACT STATION 38+00



LOCATION MAP
NOT TO SCALE

U.S. CUSTOMARY
UNITS

DESIGN DESIGNATION	
FUNCTIONAL CLASS: URBAN COLLECTOR	D.H.V. PROJECTED: 130
TYPE OF CONSTRUCTION: BRIDGE REPLACEMENT	DESIGN SPEED: 55 M.P.H.
A.A.D.T. CURRENT: 1627	YEAR: 2010
A.A.D.T. PROJECTED: 2350	YEAR: 2040
	TRUCKS: 8 %
	DIRECTION OF DISTRIBUTION: 55 %
INDEX OF SHEETS	
SHEET NO	TABLE OF CONTENTS
1	TITLE
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TOTAL SHEETS: 20

APPROVED DESIGN EXCEPTIONS

DESIGN PARAMETER	REQUIRED	PROVIDED	DATE
SUPERELEVATION	3%	-1.5%	10/31/12

ADDENDA & REVISIONS

DESCRIPTION	NAME & DATE
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ASSOCIATED CONTRACTS

CONTRACT NO.	CONTRACT NAME
723	DOVER TO LITTLE CREEK WIDENING
75-08-015	REPLACEMENT OF BRIDGE No. 16B ON ROUTE 8

RECOMMENDED

 ROAD MANAGER, CONSTRUCTION
 DATE 5/13/13

 GROUP ENGINEER, CONSTRUCTION
 DATE 5/10/13
 ASSISTANT DIRECTOR, TRANSPORTATION SOLUTIONS (CONSTRUCTION)
 DATE

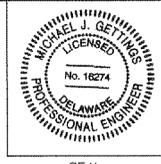
RECOMMENDED

 STORMWATER ENGINEER
 DATE 22 APR 2013



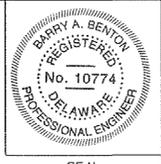
RECOMMENDED

 SQUAD MANAGER, BRIDGE DESIGN
 DATE 4/17/13



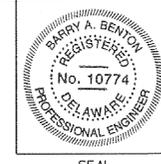
RECOMMENDED

 BRIDGE DESIGN ENGINEER
 DATE APRIL 17, 2013



RECOMMENDED

 ASSISTANT DIRECTOR, BRIDGE
 DATE APRIL 17, 2013



APPROVED

 CHIEF ENGINEER
 DATE May 13, 2013



LAST REVISED: 8/7/2008
Y:\KENT\016\BRIDGE\1201207502\PLANS\TC.DGN

EXISTING SYMBOLS

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

MANMADE ROADSIDE FEATURES	
	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
	DELINEATED WETLAND BOUNDARY LINE
	WOODS LINE BOUNDARY

SURVEY CONTROL & MONUMENTATION	
	SURVEY BENCHMARK LOCATION
	SURVEY TIE POINT LOCATION
	SURVEY TRAVERSE POINT
	POINT OF CURVATURE OR TANGENCY
	POINT OF INTERSECTING TANGENTS
	PROPERTY MARKER - CONCRETE MON.
	PROPERTY MARKER - IRON PIPE

UTILITY	
	PAVEMENT CORING LOCATION
	UTILITY TEST HOLE LOCATION
	CABLE TV DISTRIBUTION BOX
	ELECTRIC MANHOLE
	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 VENT OR CLEANOUT
	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

UTILITY COMPANY FACILITIES	
	VERIZON
	VERIZON - FIBER OPTIC

PROPOSED SYMBOLS

CONSTRUCTION	
	CONCRETE SAFETY BARRIER - PERMANENT
	BIOFILTRATION SWALE
	BUTT JOINT
	CONSTRUCTION BASELINE
	CURB, TYPE 1 & TYPE 3
	CURB, TYPE 2
	CURB & GUTTER, TYPE 1
	CURB & GUTTER, TYPE 2
	CURB & GUTTER, TYPE 3
	CURB & GUTTER, TYPE 4
	CLEAR ZONE
	DRAINAGE INLET
	DITCH
	FENCE - METAL
	FENCE - WOOD
	FLARED END SECTION
	GUARDRAIL, TYPES 1 & 3
	GUARDRAIL, TYPE 2
	GUARDRAIL END TREATMENT - PARALLEL
	GUARDRAIL END TREATMENT - PARABOLIC
	HORIZONTAL CLEARANCE
	JUNCTION BOX - DRAINAGE
	LIMIT OF CONSTRUCTION
	MANHOLE
	PAVEMENT PATCH
	PIPE & DIRECTIONAL FLOW ARROW
	RIPRAP
	P.C.C. SIDEWALK @ 4"
	P.C.C. SIDEWALK @ 6"
	UNDERDRAIN
	UNDERDRAIN OUTLET

CONSTRUCTION PHASING SYMBOLS	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
	CONSTRUCTION WARNING SIGN LOCATION
	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	PHASING TRAFFIC FLOW ARROW

LANDSCAPING	
	SHRUBBERY
	CONIFEROUS TREE
	DECIDUOUS TREE

EROSION & SEDIMENT CONTROL	
	DEWATERING BASIN
	EROSION CONTROL BLANKET
	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
	PORTABLE SEDIMENT TANK
	REINFORCED SILT FENCE
	SANDBAG DIKE
	SANDBAG DIVERSION
	STONE CHECK DAM
	STABILIZED CONSTRUCTION ENTRANCE
	SILT FENCE
	SUMP PIT, TYPE 1
	SUMP PIT, TYPE 2
	SEDIMENT TRAP
	SEDIMENT TRAP WITH INLET AS OUTLET
	SEDIMENT TRAP PIPE OUTLET
	STILLING WELL
	TEMPORARY SWALE
	TEMPORARY SLOPE DRAIN

IDENTIFIERS	
	ADJUST BY CONTRACTOR
	ADJUST BY OTHERS
	CONCRETE SAFETY BARRIER
	CURB OR CURB & GUTTER
	CONVERT TO JUNCTION BOX
	CONVERT TO DRAINAGE MANHOLE
	CURB OPENING
	CURB RAMP
	CURB RAMP - WITHOUT SIDEWALK SURFACE DETECTABLE WARNING SYSTEM
	DRAINAGE INLET
	DO NOT DISTURB
	FLARED END SECTION
	FILTRATION STRUCTURE
	GUARDRAIL
	JUNCTION BOX
	LANDSCAPE PLANTINGS
	MANHOLE
	MONUMENT - RIGHT-OF-WAY
	PIPE
	RELOCATE BY CONTRACTOR
	RELOCATE BY OTHERS
	REMOVE BY CONTRACTOR
	REMOVE BY OTHERS
	SEDIMENT TRAP
	SILT FENCE
	UNDERDRAIN

PAVEMENT SECTION(S)	
	2" WMA, SUPERPAVE, TYPE C, 160 GYR., PG 64-22 (CARBONATE STONE)
	3" WMA, SUPERPAVE, TYPE B, 160 GYR., PG 64-22
	10" GRADED AGGREGATE BASE COURSE, TYPE B

RIGHT-OF-WAY SYMBOLS	
	PROPOSED RIGHT-OF-WAY MONUMENT
	EXISTING PROPERTY LINE
	EXISTING EASEMENT
	EXISTING RIGHT-OF-WAY
	PROPOSED DENIAL OF ACCESS
	PROPOSED PERMANENT EASEMENT
	PROPOSED RIGHT-OF-WAY
	PROPOSED R/W & DENIAL OF ACCESS
	TEMPORARY CONSTRUCTION EASEMENT
	PROPOSED RIGHT-OF-WAY BASELINE
	HISTORIC RIGHT-OF-WAY BASELINE

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

MISCELLANEOUS	
	TOE OF SLOPE

GENERAL NOTES

- THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", DATED AUGUST 2001 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD CONSTRUCTION DETAILS", DATED 2001, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT.
- THE CONTRACTOR SHALL GIVE TWO (2) WEEKS NOTICE TO THE PROPERTY OWNER WHEN ANY FIXTURE, SHRUB OR OTHER OBJECT MUST BE REMOVED FROM THE RIGHT OF WAY OR EASEMENT AREA. IF THE OWNER HAS NOT ATTEMPTED TO SALVAGE THIS PROPERTY, THE CONTRACTOR SHALL REMOVE IT WITHOUT OBLIGATION. COMPENSATION SHALL BE INCIDENTAL TO THE CONTRACT.
- THE ENDS OF ALL CURBS SHALL BE DEPRESSED FLUSH WITH THE PAVEMENT AT A RATIO OF TWELVE TO ONE (12:1) UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL PVC SLEEVES (4" INSIDE MINIMUM DIAMETER, 6" INSIDE MAXIMUM DIAMETER) IN PROPOSED CONCRETE SIDEWALKS, ISLANDS, AND MEDIANS FOR FUTURE TRAFFIC SIGN POSTS AS DIRECTED BY THE ENGINEER. THE LOWER END OF THE SLEEVE SHALL SIT ON THE TOP OF THE SUBBASE MATERIAL. THE COST SHALL BE INCIDENTAL TO THE CONTRACT.
- STAGING AREAS - PROPER EROSION AND SEDIMENT CONTROL MEASURES AS DETERMINED BY THE ENGINEER SHALL BE INSTALLED IN ALL STAGING AREAS. ALL AREAS USED BY THE CONTRACTOR FOR STAGING OPERATIONS SHALL BE FULLY RESTORED BY THE CONTRACTOR UPON COMPLETION OF THE CONTRACT. IF THE STAGING AREA IS PAVED, IT SHALL BE RESTORED TO ITS ORIGINAL CONDITION. IF THE AREA IS UNPAVED, IT SHALL BE RE-GRADED, TOPSOILED, SEEDED AND MULCHED IN ACCORDANCE WITH DELAWARE STANDARD SPECIFICATIONS 732, 734 AND 735, FOR TOPSOIL, SEED AND MULCH RESPECTIVELY, TO THE SATISFACTION OF THE ENGINEER. THE SEED SHALL ADHERE TO THE SPECIFICATIONS OF SECTION 734 FOR PERMANENT GRASS SEEDING - DRY GROUND. ALL COSTS ASSOCIATED WITH RESTORATION OF THE STAGING AREA SHALL BE AT THE CONTRACTOR'S EXPENSE. IF THE ENGINEER DETERMINES THAT A SATISFACTORY STAND OF GRASS DOES NOT EXIST AT THE TIME OF FINAL INSPECTION, ALL COSTS ASSOCIATED WITH REESTABLISHING A SATISFACTORY STAND OF GRASS SHALL BE AT THE CONTRACTOR'S EXPENSE.
- SITE REVIEWER - AN EROSION CONTROL SITE REVIEWER SHALL BE A PERSON FROM THE CONTRACTOR'S STAFF ASSIGNED TO EROSION AND SEDIMENT CONTROL IMPLEMENTATION AND MAINTENANCE AND SHALL BE REQUIRED ON SPECIFIC PROJECTS. THE NAME AND DNREC CERTIFICATION NUMBER OF EACH SITE REVIEWER SO REQUIRED SHALL BE SUBMITTED TO THE DEPARTMENT. THE NAME OF THE DELAWARE REGISTERED PROFESSIONAL ENGINEER PROVIDING DIRECTION AND SUPERVISION OF THE SITE REVIEWER, AS REQUIRED IN SECTION 12.3 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS, SHALL ALSO BE SUBMITTED TO THE DEPARTMENT. THE SITE REVIEWER REQUIREMENTS IN EFFECT ON THIS PROJECT SHALL BE MARKED WITH AN "X" BELOW:

EROSION POTENTIAL FOR THIS PROJECT	SITE REVIEWER REQUIREMENT
() INSIGNIFICANT	NONE
() MINOR	CONTRACTOR CERTIFICATION COURSE TRAINING ONLY, AS DEFINED IN SECTION 13 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
(X) MEDIUM	AT THE TIME OF BID OF THE CONTRACT, EITHER THE SUPERINTENDENT OR A SEPARATE INDIVIDUAL FROM THE CONTRACTOR'S STAFF SHALL BE A CERTIFIED CONSTRUCTION REVIEWER (CCR), AS DEFINED IN SECTION 12 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
() MAJOR	SUPERINTENDENT AND AN INDIVIDUAL FROM CONTRACTOR'S STAFF SHALL BE CCR. ONE INDIVIDUAL FROM THE CONTRACTOR'S STAFF MUST BE A CCR AT THE TIME OF BID OF THE CONTRACT. THE SUPERINTENDENT MUST BECOME A CCR WITHIN ONE YEAR AFTER THE AWARD OF CONTRACT.

- ELECTRONIC PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE CONTRACTOR INCLUDE:

()	NONE
()	ASCII DATA FILES WITH COORDINATES AND ELEVATIONS FOR PROPOSED POINTS AS SELECTED BY THE ENGINEER.
(X)	RASTER FILES, IN .CAL FILE FORMAT, FOR ALL PLAN SHEETS.
()	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, 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.

- AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED TRAFFIC CONTROL SUPERVISOR REQUIREMENT FOR THIS PROJECT.

(X)	THE CONTRACTOR SHALL NOT BE REQUIRED TO HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT.
()	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.
()	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE ATSSA SUPERVISOR'S SOLE JOB SHALL BE SUPERVISION OF THE INSTALLATION, OPERATION AND MAINTENANCE OF TRAFFIC CONTROL DEVICES FOR THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT SHALL NOT BE THE ATSSA SUPERVISOR.

- THE DISTURBED AREA FOR THIS PROJECT IS 1.3 ACRES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO THE CONSTRUCTION SITE POLLUTION PREVENTION SPECIFICATIONS AS DETAILED IN SECTION 3.6 OF THE "DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK". ALL COSTS ASSOCIATED WITH ADHERING TO THE STANDARDS SHALL BE INCIDENTAL TO THE OVERALL CONTRACT COSTS.
- THE EROSION AND SEDIMENT CONTROL PLANS HAVE BEEN APPROVED BY DELDOT'S STORMWATER ENGINEER UNDER DELDOT'S DELEGATED AUTHORITY. THE EROSION AND SEDIMENT CONTROL PLANS ARE VALID FOR A THREE 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 THREE YEARS, THE CONTRACTOR SHALL INFORM THE ENGINEER THREE MONTHS PRIOR TO THE EXPIRATION OF THE EROSION AND SEDIMENT CONTROL PLAN APPROVAL. DELDOT WILL REVIEW THE CURRENT EROSION AND SEDIMENT CONTROL PLAN AND ISSUE AN EXTENSION WITH ANY APPROPRIATE MODIFICATIONS.

PROJECT NOTES

SECTION 100

- 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.

SECTION 200

- THE CONTRACTOR SHALL REMOVE AND RESET ALL MAILBOXES TO MAINTAIN MAIL SERVICE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL RELOCATE MAILBOXES AS REQUIRED BY THE PROPOSED GEOMETRICS AND AS DIRECTED BY THE ENGINEER. WHEN RELOCATING MAILBOXES IN CURBED SECTIONS, THE FACE OF THE MAILBOX SHALL BE FLUSH WITH THE BACK EDGE OF CURB. WHEN RELOCATING MAILBOXES IN OPEN SECTIONS, THE FACE OF THE MAILBOX SHALL SET BACK 8 INCHES FROM THE EDGE OF THE PAVED SHOULDER. THE BOTTOM OF THE MAILBOX SHALL BE SET 46 INCHES ABOVE THE ROADWAY SURFACE. MAILBOXES LOCATED AT DRIVEWAY ENTRANCES SHALL BE PLACED ON THE FAR SIDE OF THE DRIVEWAY IN THE DIRECTION OF TRAVEL. POSTS BEING RESET IN CONCRETE SIDEWALK SHALL BE PLACED IN AN APPROPRIATE SIZE PVC SLEEVE. COST FOR ALL WORK AND MATERIALS SHALL BE PAID UNDER ITEM 201000 - CLEARING AND GRUBBING.
- ITEMS TO BE REMOVED UNDER ITEM 21000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
 - EXISTING PIPES
 - EXISTING GUARDRAIL
 - WOODEN POSTS BY DRIVEWAY
- 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 TEAM SUPPORT 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.

SECTION 300

- A. THE CONTRACTOR MAY ELECT TO USE ANY OF THE FOLLOWING MATERIALS TO MEET THE REQUIREMENTS OF ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B':
 - a. CRUSHED STONE (PER STANDARD SPECIFICATION 821)
 - b. CRUSHED CONCRETE (PER STANDARD SPECIFICATION 821)
 - c. HOT-MIX MILLINGS (PER SPECIAL PROVISION 302514 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 302007 - 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 ENGINEER SHALL AGREE ON THE LIMITS OF EACH SOURCE OF MATERIAL PRIOR TO PLACEMENT.

B. THE QUANTITY USED FOR BASE OF EACH OF THE ABOVE LISTED MATERIALS WILL BE THE CONTRACTOR'S CHOICE, WITH THE TOTAL BEING EQUAL TO THE ACTUAL QUANTITY USED UNDER ITEM 302007 - 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 EXCESS MILLING MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR.

D. HOT-MIX MILLINGS MAY BE GENERATED FROM THE FOLLOWING SOURCES:

- a. MATERIAL MILLED ON THIS CONTRACT AT THE CONTRACTOR'S CHOICE UNDER ITEM 202000.
 - b. 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 302514 - 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. 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.

- c. MILLINGS USED FOR BASE COURSE SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF SPECIAL PROVISION 302514 - 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 FOR AT THE UNIT BID PRICE FOR ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B'.

- d. 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.

- e. SPECIAL PROVISION 302514 - 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 ITEM - 302514 MILLED HOT-MIX BASE COURSE ARE INCIDENTAL TO ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B'. NO PAYMENT WILL BE MADE FOR ITEM 302514 - MILLED HOT-MIX BASE COURSE. THE QUANTITY OF MILLINGS USED FOR BASE COURSE WILL BE PAID FOR UNDER ITEM 302007 - GRADED AGGREGATE BASE COURSE.

SECTION 600

- STRUCTURAL ELEMENTS OF PORTLAND CEMENT CONCRETE SHALL BE AS NOTED:
 - (F'c = 28 DAY COMPRESSIVE STRENGTH)
 - PRECAST CONCRETE (F'c = 5 KSI)
 - CLASS A (4.5 KSI) FOR PARAPET
 MIX REQUIREMENTS SHALL CONFORM TO SECTION B12 OF THE SPECIFICATIONS. ALL EXPOSED EDGES SHALL BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.
- REINFORCING STEEL SHALL CONFORM TO AASHTO M31 (ASTM A615), GRADE 60. ALL REINFORCING STEEL SHALL HAVE A CLEAR COVER OF 2" UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL REINFORCING STEEL SHALL BE PROTECTED WITH FUSION BONDED EPOXY. EPOXY COATED REINFORCING STEEL SHALL CONFORM TO AASHTO M284 (ASTM D3963) AND SHALL BE DENOTED WITH A SUFF. "E" IN THE BAR MARKS.
- LIMITS OF COURSE AGGREGATE FOR FOUNDATION STABILIZATION AND SUBFOUNDATION BACKFILL (ITEM *608000) SHALL EXTEND 18" OUTSIDE OF THE NEAT LINE PERIMETER OF THE VERTICAL FACES OF ANY FOOTING OR STRUCTURAL UNIT.

SECTION 700

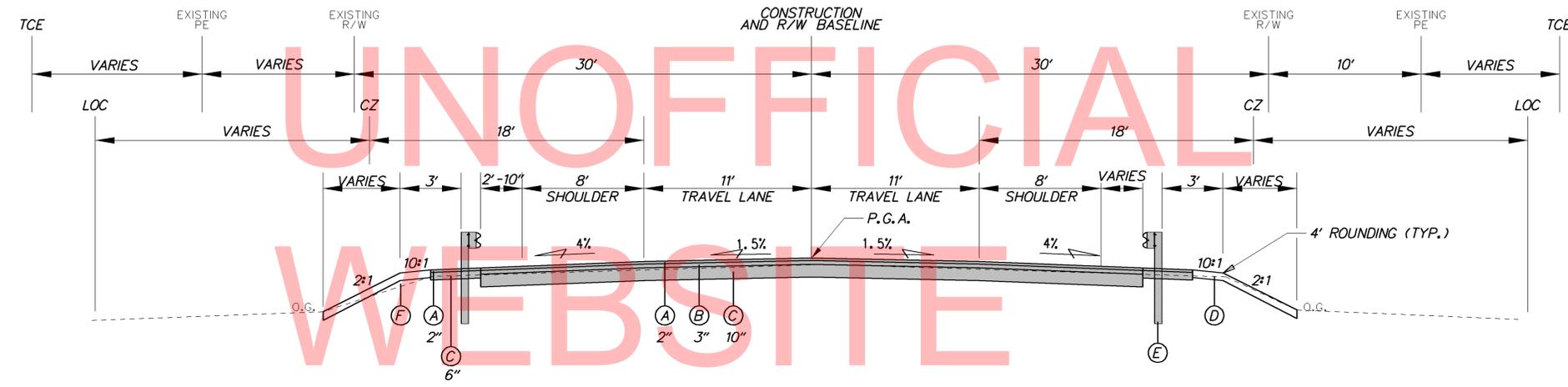
- ALL PAVED AREAS TO BE RECONSTRUCTED OR WIDENED SHALL BE FULL DEPTH SAWCUT AT THE POINT WHERE THE NEW PAVEMENT IS TO TIE INTO THE EXISTING PAVEMENT.
- ALL MOT ITEMS WITH THE EXCEPTION OF CHANGEABLE MESSAGE BOARDS AND FLAGGERS WILL BE INCLUDED IN ITEM NUMBER 763643.
- CENTER LINE STRIPING AND EDGE STRIPING SHALL BE PAID FOR UNDER ITEM 748548 - PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT WHITE/ YELLOW, 5". TOTAL NEED OF STRIPING: 2294 LF, IN WHICH 1138 LF IS FOR CENTER STRIPING & 1156 LF IS FOR EDGE STRIPING. STOP BAR ON LONG POINT ROAD SHALL BE PAID FOR UNDER ITEM 748015 - PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC.

MISCELLANEOUS

- DESIGN CRITERIA: 2010 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 5TH EDITION, U.S. CUSTOMARY UNITS USING AASHTO HL93 FOR LIVE LOAD, AND 25 PSF FOR FUTURE WEARING SURFACE.
- HYDRAULIC DATA
 - DRAINAGE AREA = 3.57 SQ. MILES
 - DESIGN FREQUENCY = 50 YEARS
 - DESIGN DISCHARGE = 879.5CFS
 - 50 YR FLOOD ELEVATION = 5.79 FT
 - PROPOSED OPENING = 151.28 SF
- THE PROPOSED STRUCTURE HAS BEEN ANALYZED FOR THE EFFECTS OF SCOUR IN ACCORDANCE WITH HEC-18-'EVALUATING SCOUR AT BRIDGES' AND HEC-23-'BRIDGE SCOUR AND STREAM INSTABILITY COUNTERMEASURES.' SCOUR COUNTERMEASURES HAVE BEEN DESIGNED FOR THE WORST CASE OF THE OVERTOPPING FLOOD OR THE 500-YR FLOOD EVENT.
 - DESIGN EVENT = OVERTOPPING
 - DESIGN DISCHARGE = 1801.8 CFS
 - DESIGN VELOCITY = 5.66 FT/SEC
 - DESIGN DEPTH OF FLOW = 6.64 FT
- CONSTRUCTION JOINTS: KEYED CONSTRUCTION JOINTS SHALL BE 2" X 4" OR AS NOTED. ALL EXPOSED CONSTRUCTION JOINT EDGES SHALL HAVE A 3/4" V-NOTCH.
- ENVIRONMENTAL COMPLIANCE: SEE ENVIRONMENTAL COMPLIANCE PLAN FOR FURTHER RESTRICTIONS/GUIDANCE ASSOCIATED WITH THIS PROJECT.
- CROSS SECTIONS USED IN THE PREPARATION OF THIS CONTRACT WILL BE MADE AVAILABLE TO THE SUCCESSFUL BIDDER FOR INFORMATIONAL PURPOSES ONLY.
- PLACE STONE CHECK DAMS AS DIRECTED BY ENGINEER IN THE FIELD.

LEGEND

- (A) ITEM 401801 - WMA, SUPERPAVE, TYPE C, 160 GYRATION, PG 64-22 (CARBONATE STONE)
- (B) ITEM 401810 - WMA, SUPERPAVE, TYPE B, 160 GYRATION, PG 64-22
- (C) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (D) ITEM 732004- TOPSOIL, 6" DEPTH (TON)
ITEM 734013- PERMANENT GRASS SEEDING, DRY GROUND
- (E) ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31 OR
ITEM 720051 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 2-31
- (F) ITEM 209006 - BORROW, TYPE F



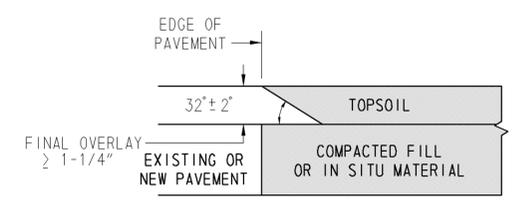
**N. LITTLE CREEK ROAD
TYPICAL ROAD SECTION**

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LRFR LOAD RATINGS

RATING VEHICLE	RATING TYPE	CONTROLLING UNIT/SPAN/MEMBER	CONTROLLING POINT	LOAD EFFECT	LIMIT STATE	LOAD RATING FACTOR	LOAD RATING (tons)
HL-93 TRUCK	INVENTORY	RIGID FRAME	109.3750	SHEAR	STRENGTH I	1.40	50.53
HL-93 TANDEM	INVENTORY	RIGID FRAME	109.3750	SHEAR	STRENGTH I	1.28	32.06
HL-93 TRUCK	OPERATING	RIGID FRAME	109.3750	SHEAR	STRENGTH I	1.82	65.50
HL-93 TANDEM	OPERATING	RIGID FRAME	109.3750	SHEAR	STRENGTH I	1.66	41.57

MATERIAL	LIFT THICKNESS	
	MINIMUM	MAXIMUM
HOT-MIX, TYPE 'C'	1.25"	2"
HOT-MIX, TYPE 'B'	2.25"	3"
BITUMINOUS CONCRETE BASE COURSE	3"	6"
GRADED AGGREGATE BASE COURSE	3"	8"



**WARM-MIX PAVEMENTS AND OVERLAYS
NOT TO SCALE**

**SAFETY EDGE DETAIL
NOT TO SCALE**

ADDENDUMS / REVISIONS

NOT TO SCALE

**BR 2-016B IN K016
N. LITTLE CREEK ROAD
OVER LITTLE RIVER**

CONTRACT T201207502	BRIDGE NO. 2-016B
COUNTY KENT	DESIGNED BY: S.M. CHECKED BY: M.J.G.

TYPICAL SECTION

SHEET NO. 4
TOTAL SHTS. 20

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T.P. *105
DELDOT CAP

T.P. *106
DELDOT CAP

T.P. *100
DELDOT CAP

T.P. *5
DELDOT CAP

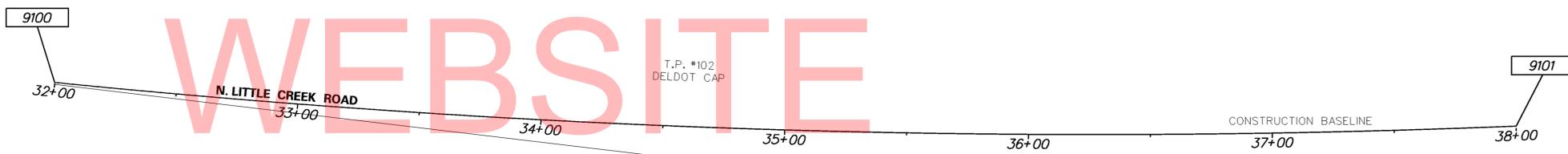
T.P. *102
DELDOT CAP

T.P. *3
DELDOT CAP

T.P. *4
DELDOT CAP

T.P. *109
DELDOT CAP

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CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
9100	32+00.00	-0.00	424790.5154	638615.7435
9101	38+00.00	-0.00	424897.6706	639205.6022

CIRCULAR CURVE NO. ①			
	STATION	NORTHING	EASTING
Element: Circular			
PC (9010)		424782.6018	638537.4498
PI (9002)	36+78.14	424833.5238	639091.9522
CC (9011)		429061.7791	638144.4774
PT (9012)		425024.0972	639615.1612
	Radius:	4297.18	
	Delta:	14° 46' 00.0000" Left	
	Degree of Curvature(Arc):	1° 20' 00.0000"	
	Length:	1107.50	
	Tangent:	556.84	
	Chord:	1104.44	
	Middle Ordinate:	35.63	
	External:	35.93	
	Tangent Direction:	N 84° 45' 10.9353" E	
	Radial Direction:	S 5° 14' 49.0647" E	
	Chord Direction:	N 77° 22' 10.9353" E	
	Radial Direction:	S 20° 00' 49.0647" E	
	Tangent Direction:	N 69° 59' 10.9353" E	

HORIZONTAL / VERTICAL CONTROL DATA					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
TP# 1	-	-	424698.0588	637454.0115	15.53
TP# 2	-	-	424736.0337	638212.6212	13.96
TP# 3	35+27.05	27.01	424812.1696	638944.1400	8.67
TP# 4	36+79.50	28.91	424841.3546	639094.7795	9.36
TP# 5	-	-	424818.0179	638492.2220	19.18
TP# 100	35+48.56	-124.69	424965.1662	638936.6028	5.13
TP# 102	34+74.77	-24.93	424853.9140	638883.3900	8.58
TP# 104	35+23.33	-335.03	425167.3273	638873.8158	6.19
TP# 105	33+81.13	-270.87	425081.9148	638754.2812	5.17
TP# 106	32+32.68	-162.97	424956.0730	638629.1069	12.19
TP# 109	35+28.27	134.55	424706.7210	638965.2652	4.76
TP# 200	-	-	424555.8228	635902.6497	19.74
TP# 201	-	-	424620.1175	636939.7596	16.95

DATUM REFERENCE:
 HORIZONTAL - THIS PROJECT IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83/91).
 VERTICAL - THIS PROJECT IS REFERENCED TO NAVD 88 AND BASED ON THE FOLLOWING STATE OF DELAWARE BENCHMARKS ESTABLISHED BY THE DELAWARE DEPARTMENT OF TRANSPORTATION:
 GPS *NLC1, ELEVATION 13.96
 GPS *NLCA, ELEVATION 15.70

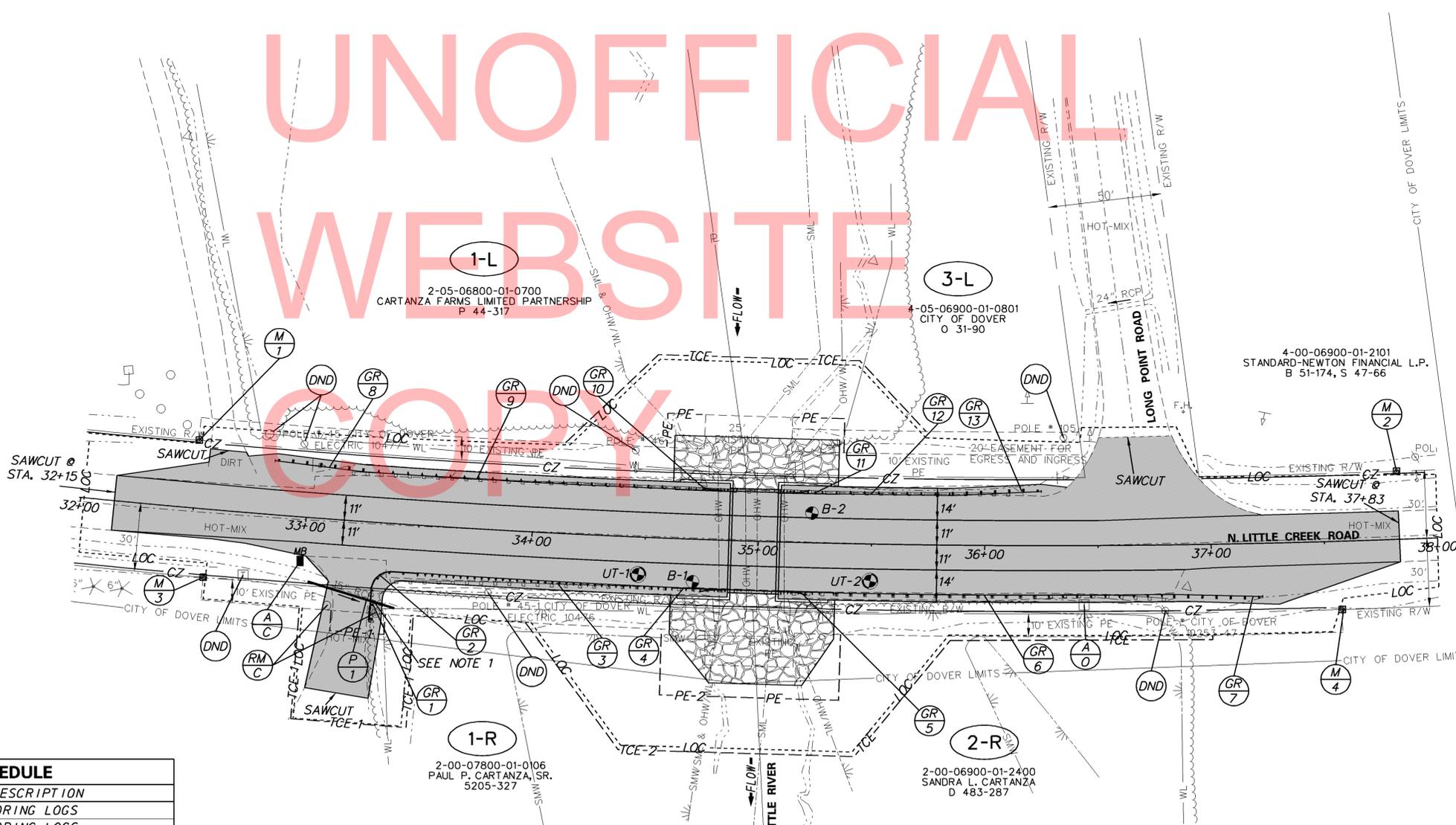
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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS		BR 2-016B ON K016 N. LITTLE CREEK ROAD OVER LITTLE RIVER	CONTRACT T201207502	BRIDGE NO. 2-016B	HORIZONTAL AND VERTICAL CONTROL	SHEET NO. 5
			COUNTY KENT	DESIGNED BY: S.M.	TOTAL SHTS. 20		
			CHECKED BY: M.J.G.				

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
1	ENTRANCE SPECIAL END ANCHORAGE	33+32.72	42.53'	-
2	CURVED GUARDRAIL SECTION	33+32.72	23.83'	31.68'
3	STEEL BEAM GUARDRAIL, TYPE 2-31	33+52.47	21.00'	112.50'
4	GR TO BARRIER CONN., APPR. TYPE 2-31	34+62.51	21.83'	26.40'
5	GR TO BARRIER CONN., APPR. TYPE 2-31	35+06.91	21.75'	26.40'
6	STEEL BEAM GUARDRAIL, TYPE 1-31	35+33.90	21.83'	137.50'
7	END TREATMENT ATTENUATOR, TYPE 1-31	36+90.57	21.83'	37.75'
8	END TREATMENT ATTENUATOR, TYPE 1-31	32+85.00	-21.83'	37.75'
9	STEEL BEAM GUARDRAIL, TYPE 1-31	33+24.60	-21.83'	125.00'
10	GR TO BARRIER CONN., APPR. TYPE 2-31	34+62.15	-21.83'	26.40'
11	GR TO BARRIER CONN., APPR. TYPE 2-31	35+07.00	-21.75'	26.40'
12	STEEL BEAM GUARDRAIL, TYPE 1-31	35+34.26	-21.83'	37.50'
13	END TREATMENT ATTENUATOR, TYPE 1-31	35+85.46	-21.83'	50.00'

ALL END TREATMENT ATTENUATOR, TYPE 1 SHALL HAVE A FLARE LENGTH OF 37.5'

RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
1	CAPPED REBAR	32+49.99	-30.00	424826.0658	638661.7661
2	CAPPED REBAR	37+83.00	-30.00	424922.6083	639181.8267
3	CAPPED REBAR	32+56.94	30.00	424767.3623	638675.9861
4	CAPPED REBAR	37+57.02	30.00	424858.1212	639171.0136



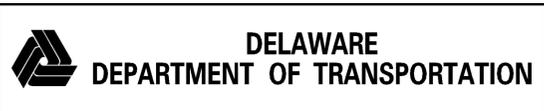
BORING LOCATION SCHEDULE			
NO.	STATION	OFFSET	DESCRIPTION
B-1	34+71.95	18.69' RT.	SEE SOIL BORING LOGS
B-2	35+23.32	13.10' LT.	SEE SOIL BORING LOGS

DRAINAGE PIPE SCHEDULE									
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.	DIS. STA.	DIS. OFFSET	
1	15" RCP	IV	40.00'	0.0308	8.03	6.80	33+41.54	37.16	

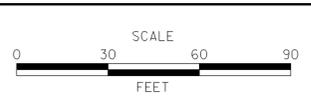
NOTE 1: GUARDRAIL POSTS SHALL NOT CONFLICT WITH PIPE

UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O.D. & MATERIAL
UT-1	VERIZON	34+47.50	16.40' RT	9.45	2.31'	1.5" CABLE
UT-2	VERIZON	35+49.60	16.30' RT	9.74	3.39'	1.5" CABLE

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ADDENDUMS / REVISIONS	

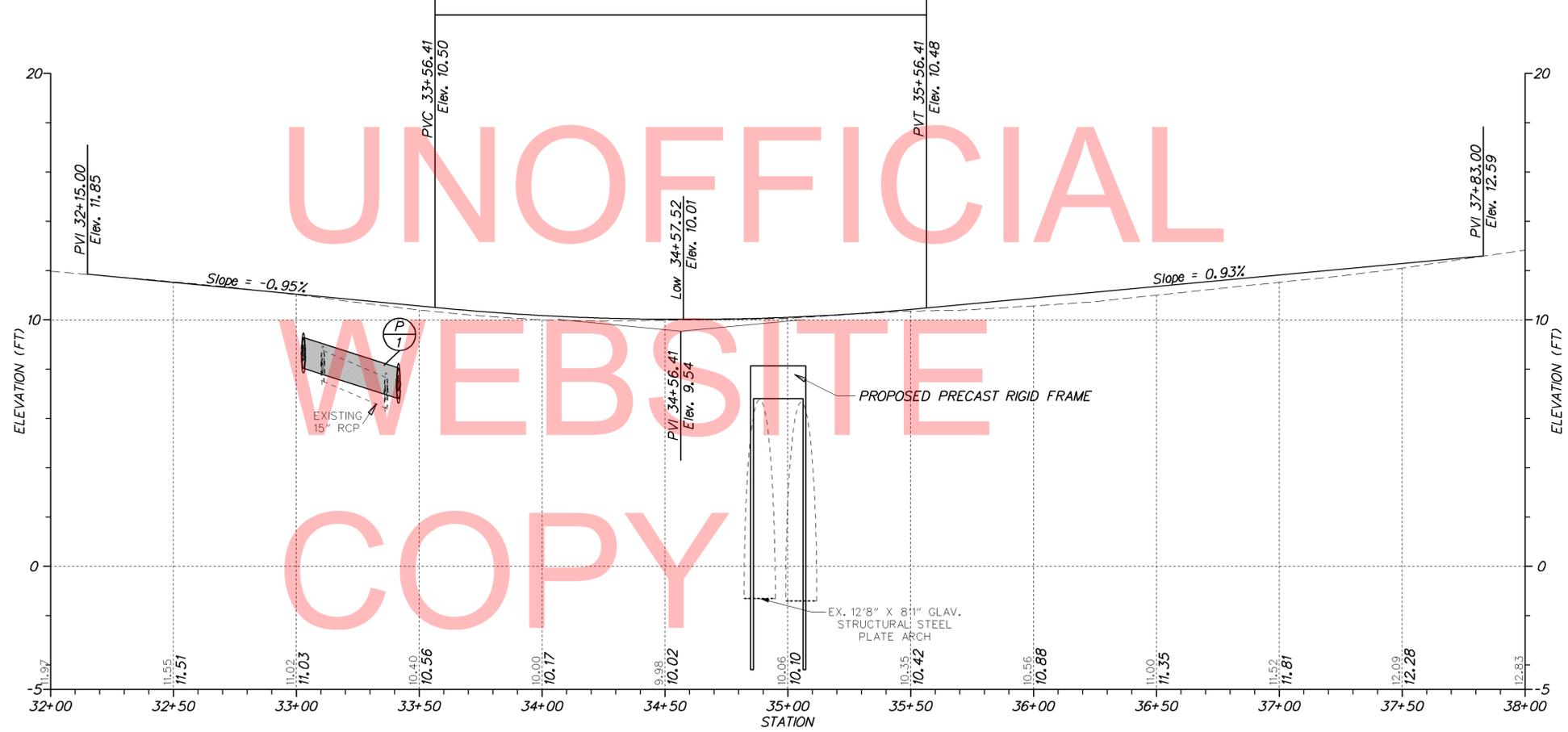


**BR 2-016B ON K016
N. LITTLE CREEK ROAD
OVER LITTLE RIVER**

CONTRACT	BRIDGE NO.	2-016B
T201207502	DESIGNED BY:	S.M.
COUNTY	CHECKED BY:	M.J.G.
KENT		

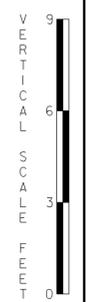
CONSTRUCTION PLAN	SHEET NO.	6
	TOTAL SHTS.	20

Type of Curve = Symmetric Parabola
 Direction = Sag
 Length = 200.00'
 L1 = 100.00'
 L2 = 100.00'
 G1 = -0.95%
 G2 = 0.93%
 SSD = 2851.74'
 K = 106.03



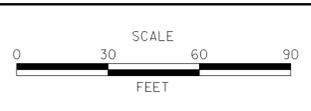
N. LITTLE CREEK ROAD

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ADDENDUMS / REVISIONS	



BR 2-016B ON K016
N. LITTLE CREEK ROAD
OVER LITTLE RIVER

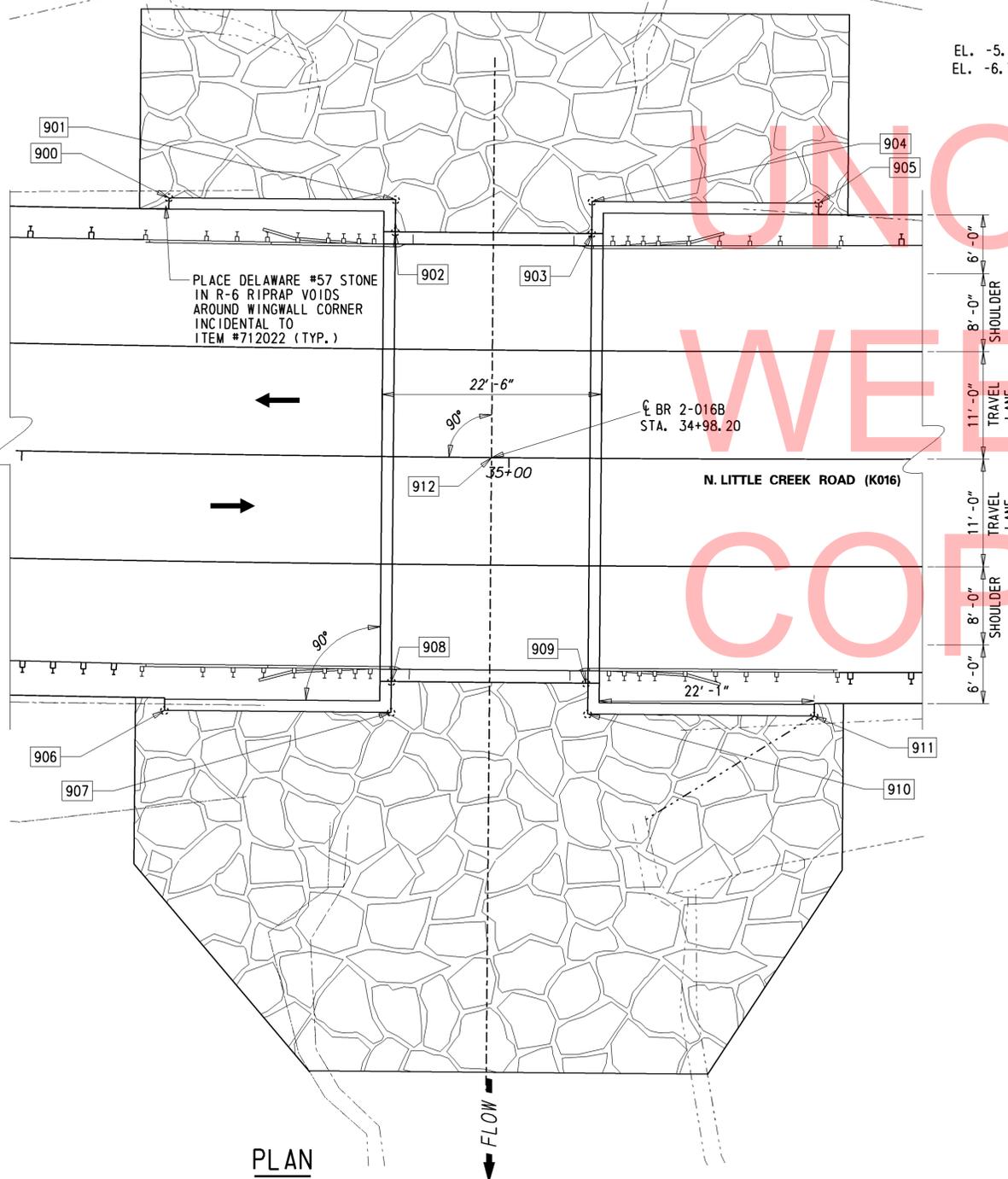
CONTRACT	BRIDGE NO.	2-016B
T201207502	DESIGNED BY:	S.M.
COUNTY	CHECKED BY:	M.J.G.
KENT		

PROFILE

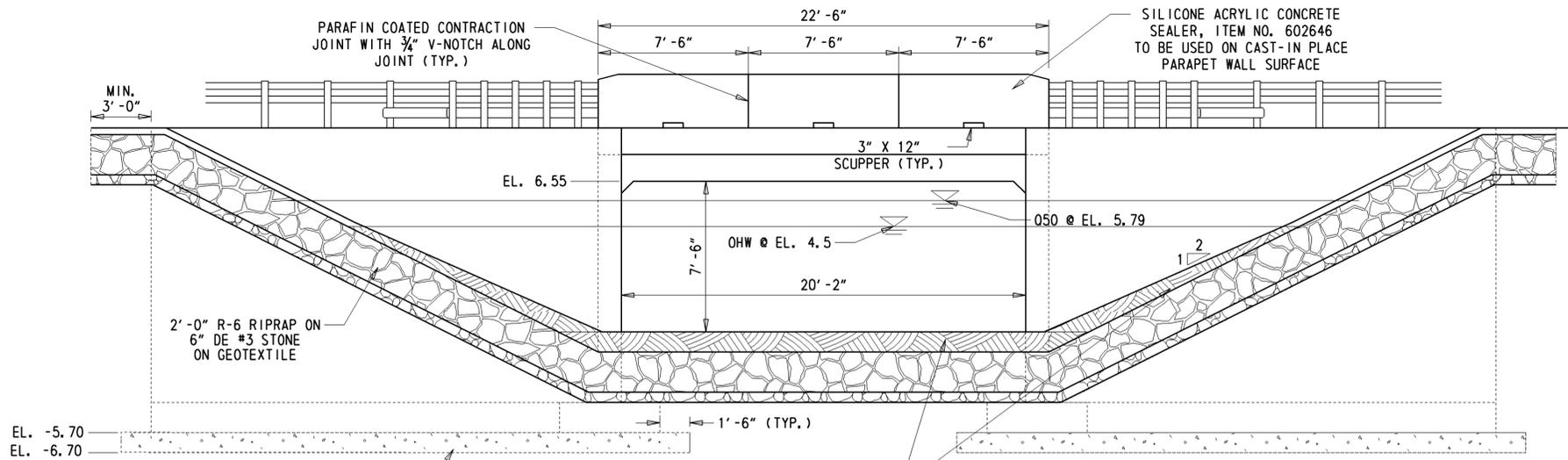
SHEET NO.	7
TOTAL SHTS.	20



FLOW
LITTLE RIVER



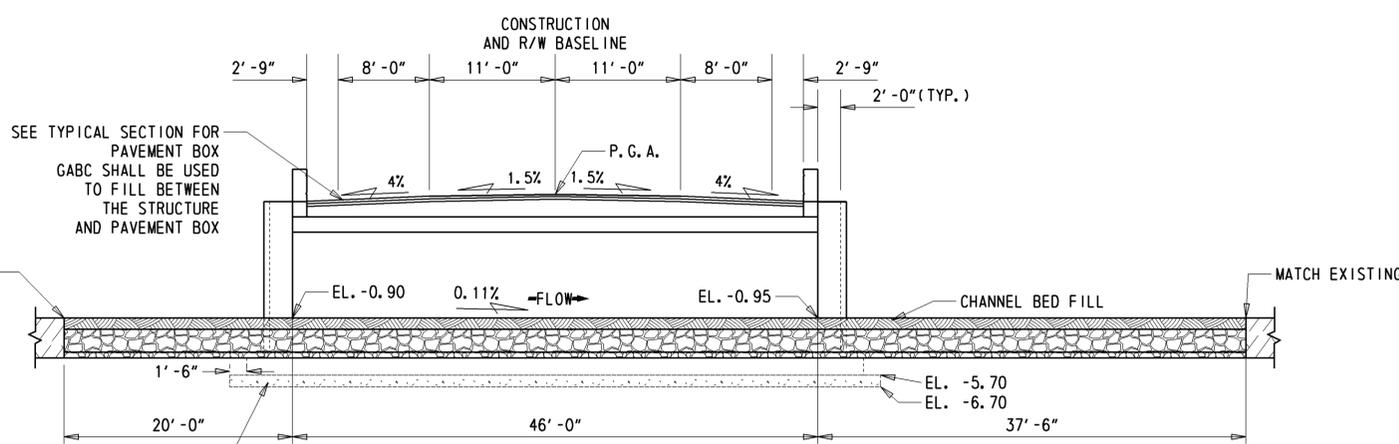
PLAN
1/8" = 1'-0"



ELEVATION
1/4" = 1'-0"

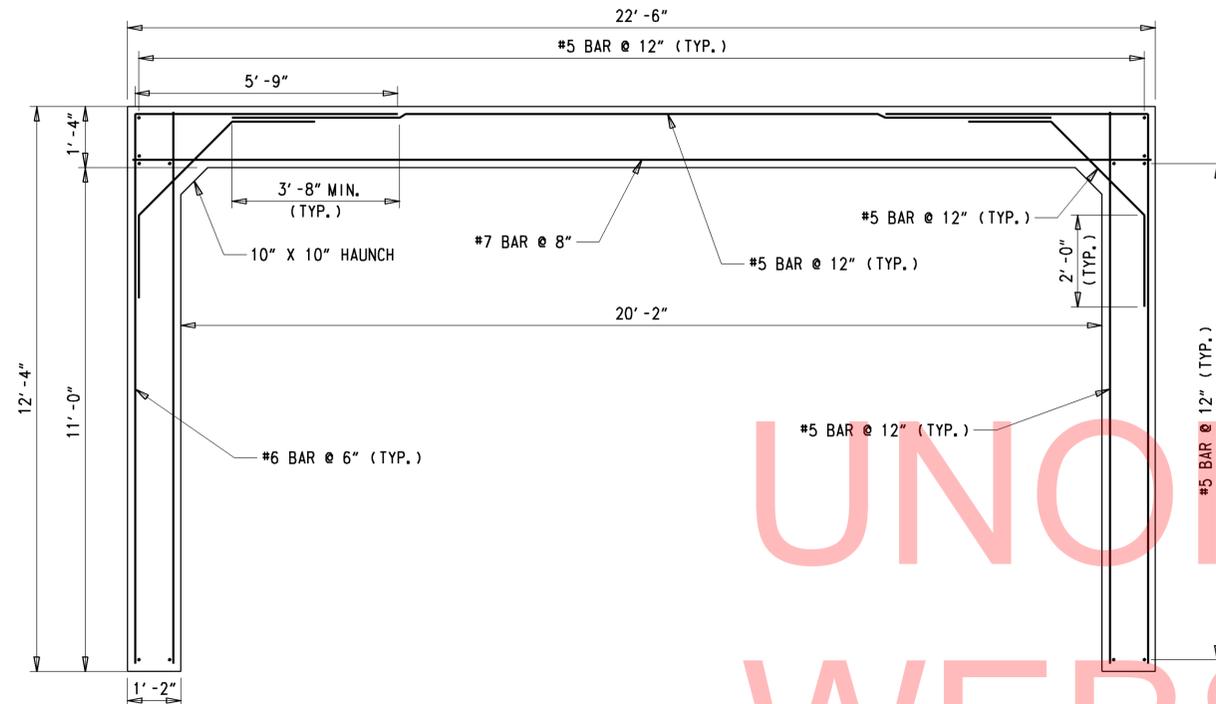
(location) WORKING POINTS

PT.	STATION	OFFSET	NORTHING	EASTING
900	34+64.66	-26.17	424853.40	638873.29
901	34+88.06	-26.28	424857.55	638896.16
902	34+88.07	-23.00	424854.31	638896.75
903	35+08.34	-23.00	424857.91	638916.59
904	35+08.35	-26.28	424861.15	638916.00
905	35+31.74	-26.17	424865.29	638938.89
906	34+65.07	26.28	424801.80	638882.64
907	34+88.18	26.16	424805.94	638905.52
908	34+88.17	23.00	424809.05	638904.95
909	35+08.23	23.00	424812.65	638924.79
910	35+08.23	26.16	424809.54	638925.36
911	35+31.33	26.28	424813.68	638948.24
912	34+98.20	0.00	424833.47	638910.77



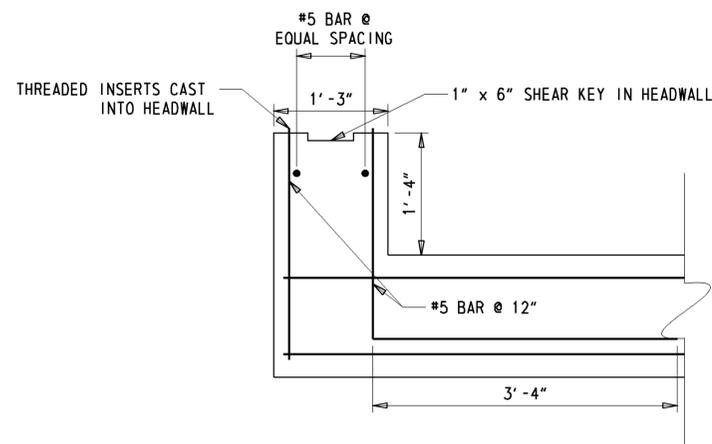
TYPICAL BRIDGE SECTION
1/8" = 1'-0"

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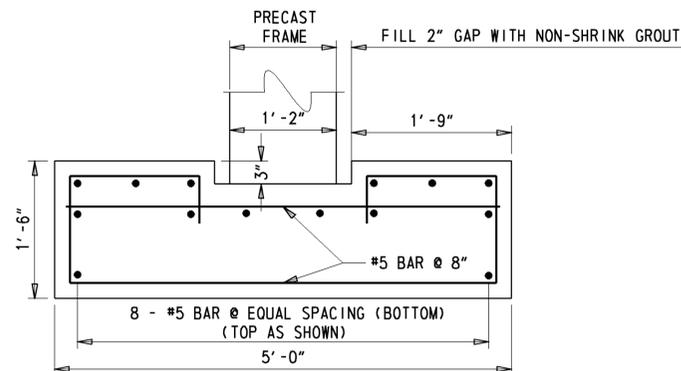
PRECAST RIGID FRAME SECTION

1/2" = 1'-0"



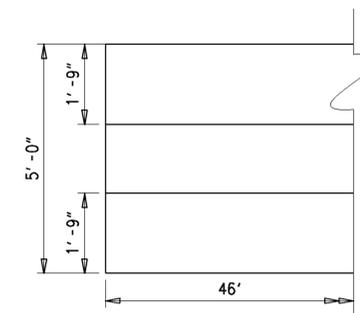
HEADWALL SECTION

1" = 1'-0"



PRECAST FOOTER SECTION

1" = 1'-0"



PRECAST FOOTER HALF PLAN

1/2" = 1'-0"

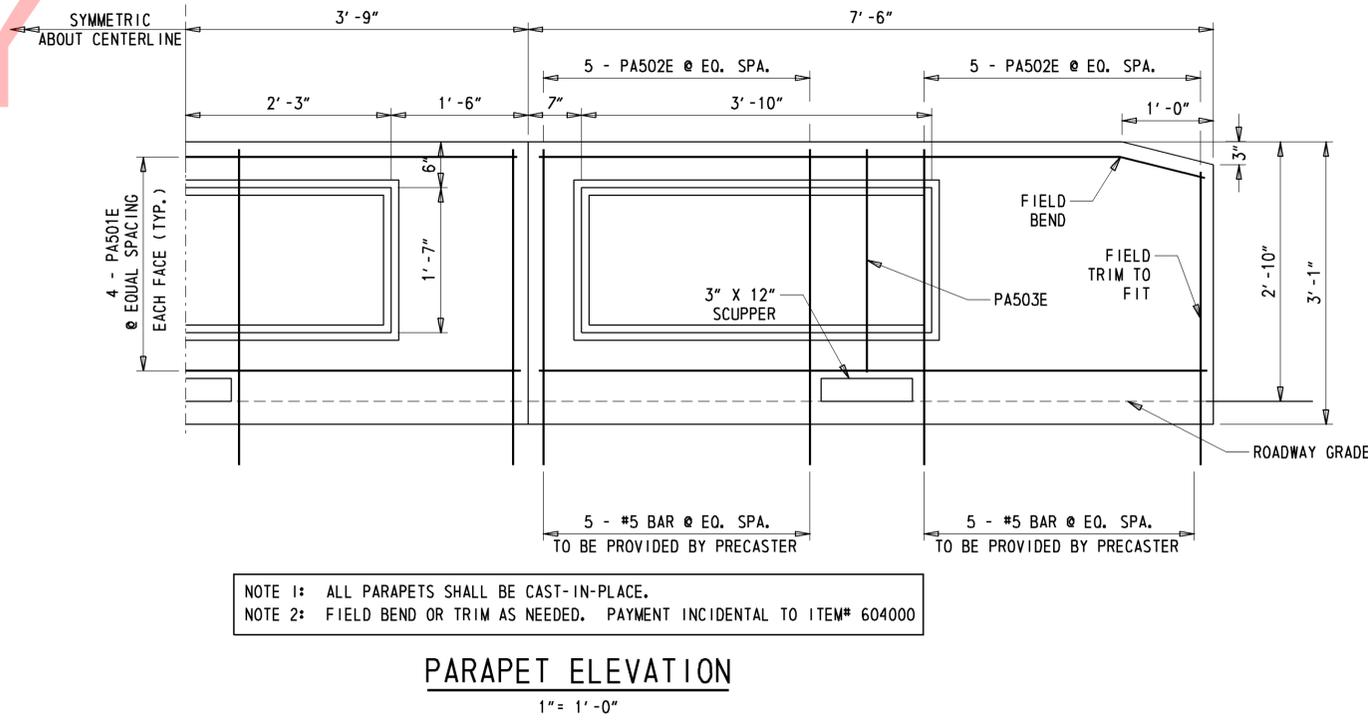
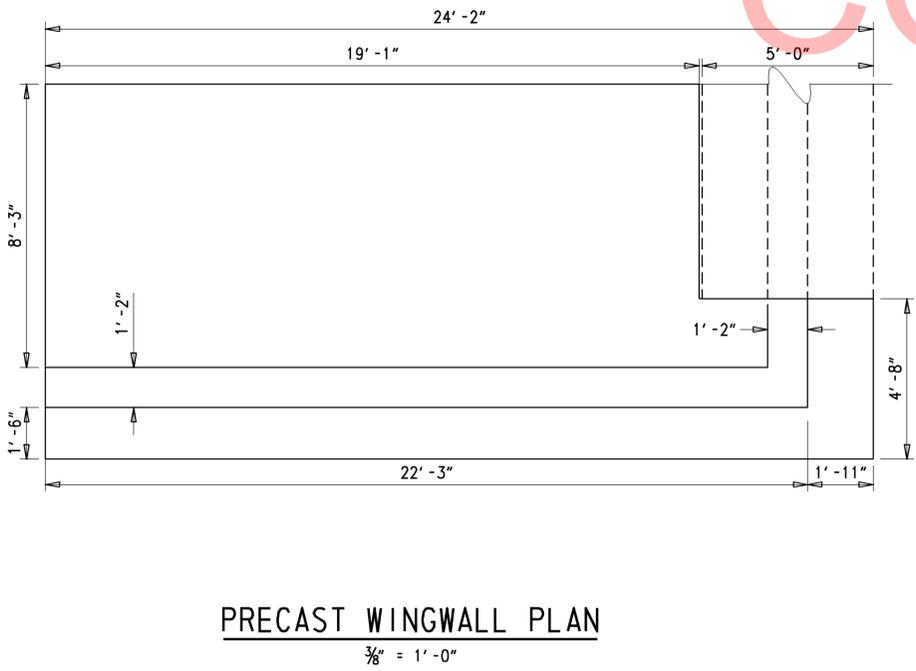
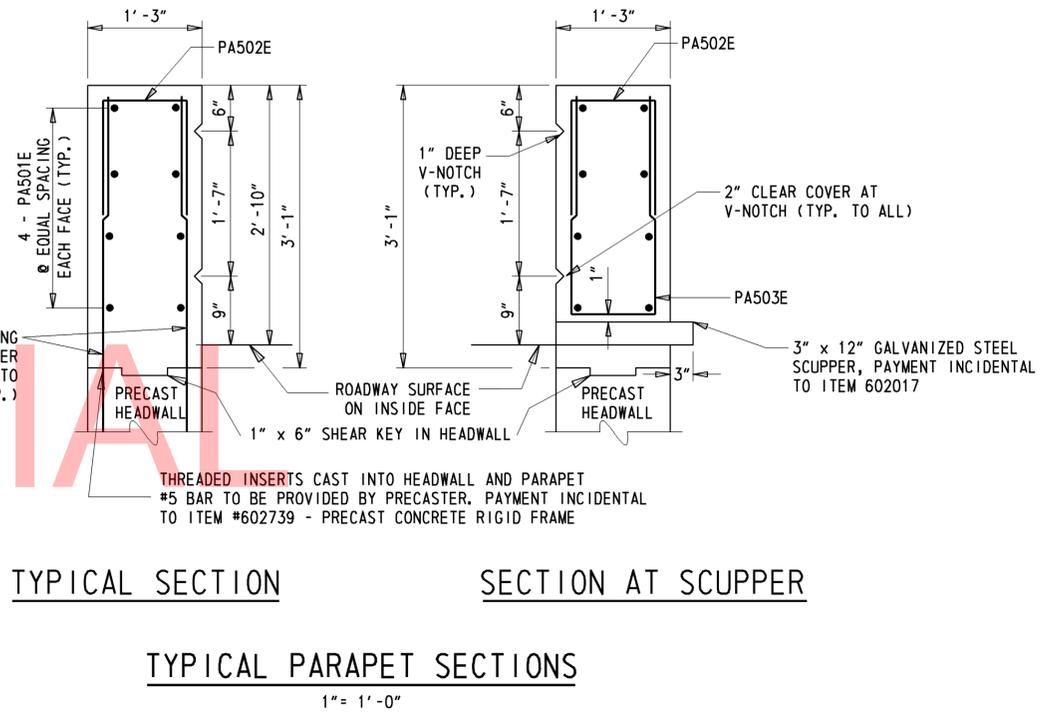
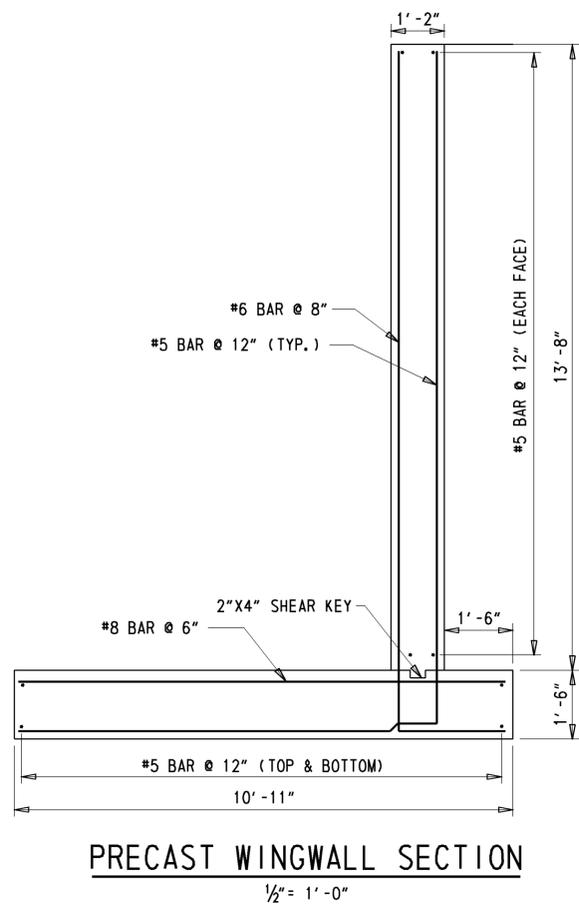
PRECAST ELEMENT NOTES

1. DESIGN PLANS / WORKING DRAWINGS
INFORMATION PERTAINING TO THE PRECAST REINFORCED CONCRETE RIGID FRAME AND WINGWALL SECTIONS IS INTENDED TO SERVE AS AN INDICATION OF THE TYPE OF CONSTRUCTION ACCEPTABLE FOR USE. THE CONTRACTOR WILL BE REQUIRED TO PREPARE AND SUBMIT FOR APPROVAL. A COMPLETE SET OF DETAILED SHOP DRAWINGS FOR THE PRECAST CONCRETE UNITS THEY PROPOSE TO FURNISH. THE SHOP DRAWINGS SHALL INCLUDE:
A. AN OVERALL PLAN SHOWING ALL UNITS TOGETHER AND DETAILS OF EACH TYPE OF UNIT.
B. A PLAN VIEW OF REINFORCEMENT FOR ANY IRREGULAR SHAPED (SKEWED, CURVED, ETC.) SECTIONS.
C. REINFORCING BAR LIST
D. BILL OF MATERIALS INCLUDING ALL ACCESSORIES
E. METHOD AND SEQUENCE OF POST-TENSIONING
2. PRECAST ELEMENTS, ACCESSORIES AND INSTALLATION
PAYMENT FOR ITEM 602739 - PRECAST CONCRETE RIGID FRAME AND 602738 - PRECAST CONCRETE RETAINING WALL SHALL INCLUDE:
A. ALL PRECAST ELEMENTS (RIGID FRAME, WINGWALLS, AND FOOTERS).
B. ALL ASSOCIATED REINFORCEMENT
C. ALL ACCESSORIES (INCLUDING, BUT NOT LIMITED TO CONCRETE FINISH, POST-TENSIONING TENDONS, CONNECTION PLATES, GROUT, JOINT WRAP, THREADED INSERTS) MENTIONED IN THE FOLLOWING NOTES UNLESS NOTED OTHERWISE.
D. DELIVERY AND INSTALLATION OF ALL PRECAST ELEMENTS AND ALL ACCESSORIES.
3. MISCELLANEOUS CONCRETE NOTES
A. ALL EXPOSED SURFACES SHALL BE PROTECTED WITH A WATER MISCIBLE, PENETRATING SILANE SEALER.
B. ALL EXPOSED EDGES SHALL BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.
4. CONCRETE FINISH
ALL EXPOSED SURFACES SHALL BE PROTECTED WITH A WATER MISCIBLE, PENETRATING SILANE SEALER.
5. RIGID FRAME POST-TENSIONING
THE PRECAST RIGID FRAME SECTIONS SHALL BE POST-TENSIONED TOGETHER WITH A MINIMUM OF FOUR POST-TENSIONING TENDONS. THE RIGID FRAME SHALL BE POST-TENSIONED SUCH THAT THE NEOPRENE GASKETS ARE COMPRESSED ALL AROUND AND THERE IS A 1/2" MAXIMUM GAP BETWEEN SECTIONS. MAXIMUM POST-TENSIONING SHALL BE 28,900 lbs. POST-TENSIONING DETAILS (PLACEMENT, SEQUENCE OF TENSIONING, ETC.) SHALL BE SHOWN IN THE SUBMITTED SHOP DRAWINGS. ALL POCKETS AND DUCTS FOR POST-TENSIONING SHALL BE FILLED WITH NON-SHRINK GROUT.
6. WINGWALL POST TENSIONING
A. THE PRECAST WINGWALL SECTIONS SHALL BE POST TENSIONED TOGETHER AND POSITIVELY CONNECTED TO THE RIGID FRAME WITH A MINIMUM OF TWO POST-TENSIONING TENDONS. POST-TENSIONING SHALL BE AS PER NOTE 5.
B. AT LOCATIONS WHERE POST TENSIONING OF THE WINGWALLS IS NOT FEASIBLE, A BOLTED CONNECTION MAY BE USED. BOLTED CONNECTION DETAILS SHALL BE SHOWN IN THE SUBMITTED SHOP DRAWINGS.
7. BOLTED CONNECTIONS
THE BOLTED CONNECTION MUST CONSIST OF A MINIMUM OF TWO 3'-0" WIDE x 2'-0" TALL x 1/4" THICK PLATES PER JOINT WITH AT LEAST FOUR 3/4" BOLTS PER PLATE. ANGLED PLATES SHALL HAVE 8 BOLTS. SLOTTED HOLES IN THE PLATE SHALL NOT BE PERMITTED. HOLES FOR ANCHOR BOLTS MAY BE FIELD DRILLED.
8. JOINTS BETWEEN PRECAST SECTIONS
A. NEOPRENE GASKETS SHALL BE PROVIDED AT THE JOINTS BETWEEN ALL PRECAST UNITS IN ORDER TO MAKE THE JOINTS WATERTIGHT. AFTER INSTALLATION, THE GASKETS SHALL BE COMPRESSED SUCH THAT NO GAPS ARE VISIBLE.
B. ALL JOINTS BETWEEN PRECAST FRAME SECTIONS SHALL HAVE A SHEAR KEY IN THE TOP SLAB.
C. ALL WINGWALL TO WINGWALL, WINGWALL TO RIGID FRAME AND FOOTER TO FOOTER JOINTS SHALL HAVE A SHEAR KEY.
D. THE LOCATIONS OF THE JOINTS IN THE PRECAST SECTIONS SHALL BE DETERMINED BY THE PRECASTER AND SUBMITTED IN THE SHOP DRAWINGS FOR APPROVAL.
E. THE REINFORCEMENT SHALL HAVE 2" COVER AT THE END OF EACH SECTION AND MEET OR EXCEED THE MINIMUM AREA OF STEEL PER FOOT DENOTED IN THE PLANS.
F. ALL JOINT EXTERIORS SHALL BE COVERED WITH A MINIMUM 9" WIDE WRAP CENTERED ON THE JOINT AS PER THE SPECIAL PROVISION FOR ITS RESPECTIVE ITEM.

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NOTE 1: ALL PARAPETS SHALL BE CAST-IN-PLACE.
NOTE 2: FIELD BEND OR TRIM AS NEEDED. PAYMENT INCIDENTAL TO ITEM# 604000

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE: AS NOTED	BR 2-016B IN K016 N. LITTLE CREEK ROAD OVER LITTLE CREEK ROAD	CONTRACT	BRIDGE NO.	2-016B	PRECAST WINGWALL DETAIL	SHEET NO.	10
				T201207502	DESIGNED BY:	S.M.		TOTAL SHTS.	20
				COUNTY	CHECKED BY:	M.J.G.			
				KENT					

BORING: B-1		DATE DRILLED: 5/10/12			
STATION: 34+71.95		OFFSET: 18.69			
ELEVATION: 9.41		NORTHING: 424810.457			
EASTING: 638888.150		COMMENTS: NO LOGGER, EQUIPMENT OR COORDINATES.			
SAMPLE INFORMATION					
NO.	DEPTH	BLOWS /6"	DESCRIPTION	CLASS /G.I.	REMARKS
1	2.0	11	MOIST MEDIUM DENSE BROWNISH GRAY FINE GRAVELLY COARSE SAND W/SOME FINE SAND AND SILT.	A-1-B	
2	2.0	7	MOIST VERY STIFF GRAY SILT W/SOME COARSE TO FINE SAND AND CLAY, TRACE OF FINE GRAVEL.	A-4(0)	
3	4.0	11	MOIST VERY STIFF GRAY FINE SANDY SILT W/SOME COARSE SAND, TRACE OF FINE GRAVEL AND CLAY.	A-4(0)	
4	6.0	5	WET FIRM GRAY FINE SANDY SILT W/SOME COARSE SAND, TRACE OF FINE GRAVEL AND CLAY.	A-4(0)	PERCHED WATER ENCOUNTERED AT 7'
5	8.0	1	WET SOFT BLACK ORGANIC FINE SANDY SILT W/SOME COARSE SAND, TRACE OF FINE GRAVEL.	A-4(0)	
6	10.0	1	WET SOFT BLACK ORGANIC FINE SANDY SILT W/SOME COARSE SAND, TRACE OF FINE GRAVEL.	A-4(0)	
7	12.0	5	WET MEDIUM DENSE GRAY FINE GRAVEL AND COARSE TO FINE SAND W/TRACE OF SILT.	A-1-B	WATER TABLE APPROXIMATE DEPTH AT 10.5'
8	14.0	13	WET MEDIUM DENSE LIGHT BROWN FINE GRAVEL AND COARSE SAND W/SOME FINE SAND, TRACE OF SILT.	A-1-B	
9	16.0	8	WET MEDIUM DENSE LIGHT BROWN COARSE TO FINE SAND W/SOME FINE GRAVEL, TRACE OF SILT.	A-1-B	BOTTOM OF FOOTING APPROXIMATELY AT 16.0'
10	18.0	6	WET MEDIUM DENSE LIGHT BROWN FINE TO COARSE SAND W/SOME FINE GRAVEL AND SILT.	A-1-B	
11	23.0	5	WET MEDIUM DENSE BROWN FINE TO COARSE SAND W/SOME SILT, TRACE OF FINE GRAVEL.	A-2-4(0)	
12	28.0	4	WET MEDIUM DENSE LIGHT BROWN COARSE TO FINE SAND W/SOME FINE GRAVEL, TRACE OF SILT.	A-1-B	
13	33.0	8	WET DENSE TAN COARSE TO FINE SAND W/SOME FINE GRAVEL, TRACE OF SILT.	A-1-B	
14	38.0	18	WET VERY DENSE TAN FINE TO COARSE SAND W/TRACE OF FINE GRAVEL AND SILT.	A-3	
15	43.0	50	WET VERY DENSE TAN FINE TO COARSE SAND W/TRACE OF SILT AND FINE GRAVEL.	A-3	
16	48.0	50	WET VERY DENSE TAN FINE TO COARSE SAND W/TRACE OF SILT AND FINE GRAVEL.	A-3	
	50.0		END BORING.		

BORING: B-2		DATE DRILLED: 5/10/12			
STATION: 35+23.32		OFFSET: -13.10			
ELEVATION: 9.92		NORTHING: 424850.897			
EASTING: 638933.071		COMMENTS: NO LOGGER, EQUIPMENT OR COORDINATES.			
SAMPLE INFORMATION					
NO.	DEPTH	BLOWS /6"	DESCRIPTION	CLASS /G.I.	REMARKS
1	1.5	12	MOIST MEDIUM DENSE BROWN FINE GRAVELLY COARSE SAND W/SOME FINE SAND AND SILT.	A-1-B	
2	2.0	10	MOIST VERY STIFF GRAY SILT W/SOME COARSE TO FINE SAND AND FINE GRAVEL, TRACE OF CLAY.	A-4(0)	
3	4.0	6	WET STIFF GRAY FINE SANDY SILT W/SOME CLAY, TRACE OF COARSE SAND.	A-4(0)	
4	6.0	1	SATURATED SOFT GRAY CLAYEY SILT W/TRACE OF FINE SAND.	A-4(3)	
5	8.0	0	SATURATED SOFT DARK GRAY SILTY CLAY W/SOME FINE SAND, TRACE OF COARSE SAND.	A-6(9)	WATER TABLE APPROXIMATE DEPTH AT 8.0'
6	10.0	1	SATURATED SOFT WHITE FINE SANDY SILT W/SOME COARSE SAND.	A-4(0)	
7	12.0	1	SATURATED MEDIUM DENSE WHITE COARSE TO FINE SAND W/TRACE OF FINE GRAVEL SILT, AND SHELL FRAGMENTS..	A-1-B	
8	14.0	2	SATURATED LOOSE WHITE COARSE SAND W/TRACE OF FINE GRAVEL, FINE SAND, SILT AND SHELL FRAGMENTS.	A-1-B	
9	16.0	3	SATURATED LOOSE WHITE COARSE SAND W/TRACE OF FINE SAND, FINE GRAVEL AND SILT.	A-1-B	BOTTOM OF FOOTING APPROXIMATELY AT 16.0'
10	18.0	3	SATURATED MEDIUM DENSE ORANGISH BROWN FINE GRAVELLY COARSE SAND W/SOME FINE SAND, TRACE OF SILT.	A-1-B	
11	23.0	5	SATURATED LOOSE ORANGE FINE TO COARSE SAND W/SOME SILT, TRACE OF FINE GRAVEL.	A-2-4(0)	
12	28.0	1	SATURATED MEDIUM DENSE ORANGE COARSE TO FINE SAND W/SOME SILT, TRACE OF FINE GRAVEL.	A-1-B	
13	33.0	2	SATURATED VERY DENSE ORANGE COARSE TO FINE SAND W/SOME FINE GRAVEL, TRACE OF SILT.	A-1-B	
14	38.0	29	SATURATED VERY DENSE WHITE FINE TO COARSE SAND W/TRACE OF FINE GRAVEL AND SILT.	A-3	
15	43.0	29	SATURATED VERY DENSE WHITE FINE TO COARSE SAND W/TRACE OF SILT AND FINE GRAVEL.	A-3	
16	48.0	18	SATURATED VERY DENSE WHITE FINE TO COARSE SAND W/TRACE OF FINE GRAVEL AND SILT.	A-3	
	50.0		END BORING.		

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1. BORING LOGS MADE BY THE DELAWARE DEPARTMENT OF TRANSPORTATION'S SUBSURFACE EXPLORATIONS DURING JULY 2012.
2. LOCATIONS OF BORINGS REFERENCED TO N. LITTLE CREEK ROAD CONSTRUCTION BASELINE, UNLESS OTHERWISE NOTED.
3. SOIL SAMPLING: 2" DIA. SPLIT BARREL SAMPLER, DRIVEN WITH 140 LB. HAMMER FALLING 30".
4. REFERENCE: FOR LOCATION OF THE STRUCTURAL BORINGS, REFER TO THE CONSTRUCTION PLAN SHEET.

 DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS		BR 2-016B ON K016 N. LITTLE CREEK ROAD OVER LITTLE CREEK	CONTRACT	BRIDGE NO.	2-016B	SOIL BORING LOG	SHEET NO.
	T201207502	DESIGNED BY:		S.M.	12			
	KENT	CHECKED BY:		M.J.G.	TOTAL SHTS.			
					20			

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ENVIRONMENTAL COMPLIANCE NOTES

1. GENERAL NOTES:

- A. THE PURPOSE OF THIS SHEET IS TO IDENTIFY THOSE ITEMS ASSOCIATED WITH ENVIRONMENTAL COMPLIANCE. IMPACT CALCULATIONS ARE FOR THE AGENCY PERMIT REPORTING PURPOSES ONLY AND ARE NOT TO BE USED FOR BIDDING PURPOSES.
- B. IF A DEPARTURE FROM THE APPROVED PLANS (WHICH WOULD AFFECT ANY NATURAL AND/OR CULTURAL RESOURCES) IS NECESSARY, THE ENVIRONMENTAL STUDIES SECTION SHALL BE CONTACTED AT (302)760-2264 TO ALLOW FOR COORDINATION WITH THE APPROPRIATE RESOURCE AGENCIES AND APPROVAL.
- C. USE OF THIS SHEET DOES NOT ALLEVIATE THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL CONDITIONS SET FORTH IN THE ENVIRONMENTAL STATEMENT AND PERMITS.

2. NATURAL RESOURCE ISSUES:

- A. PERMIT REQUIREMENTS/APPROVALS:
 - U.S. ARMY CORPS OF ENGINEERS (COE): NWP #3(a) AND (c) (NO PCN)
 - DNREC - WETLANDS & SUBAQUEOUS LANDS (WLSL): SUBAQUEOUS LANDS & WETLANDS PERMIT**
 - DNREC - WATER QUALITY (WQC) & COASTAL ZONE CONSISTENCY (CZM): ISSUED (PROJECT IS NOT LOCATED IN CRW)

* THE PERMITS/APPROVALS LISTED ARE THOSE REQUIRED FOR THIS PROJECT. THE ENVIRONMENTAL STUDIES SECTION IS RESPONSIBLE FOR COORDINATING AND/OR OBTAINING THIS APPROVAL.
 ** THE CONTRACTOR MUST ENSURE THAT THESE PERMITS/APPROVALS ARE IN THEIR POSSESSION PRIOR TO BEGINNING CONSTRUCTION IN THE PERMITTED AREA(S) AND ENSURE IT IS DISPLAYED ON-SITE DURING THE ENTIRE CONSTRUCTION PERIOD.

- B. CONSTRUCTION RESTRICTIONS:
 - FISHERIES - NONE
 - ENDANGERED SPECIES - NONE
 - MIGRATORY BIRDS - NONE

3. CULTURAL RESOURCE ISSUES: NONE

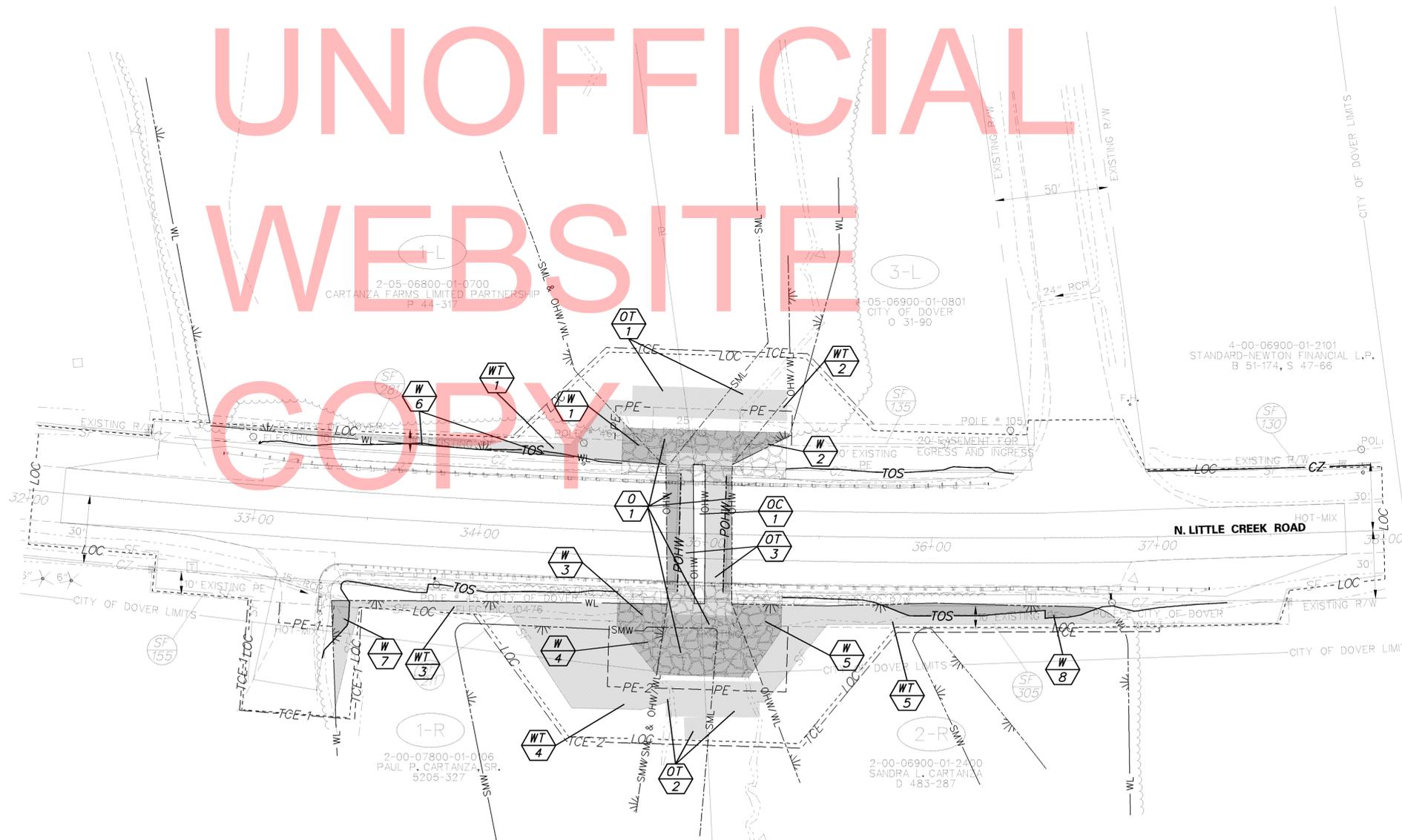
4. STREAM RESTORATION AND SLOPE RIPRAP TREATMENT

- A. THE CONTRACTOR SHALL FOLLOW THE SPECIAL PROVISIONS OF ITEM #712531 - CHANNEL BED FILL IN REGARDS TO THE SALVAGING OF ON-SITE NATURAL STREAM BOTTOM MATERIAL OR THE FURNISHING OF OFF-SITE MATERIAL. ALL RIPRAP IN THE CHANNEL BOTTOM (I.E. BELOW THE WATER LINE) SHALL BE RECESSED ONE FOOT BELOW STREAM BED ELEVATION AND CHOKED WITH BORROW TYPE 'B' SO THAT ALL OF THE VOIDS IN THE RIPRAP ARE FILLED WITH MATERIAL. PAYMENT UNDER ITEM #209002 - BORROW TYPE 'B'. THE RIPRAP SHALL THEN BE COVERED WITH 12" CHANNEL BED FILL TO MATCH EXISTING ELEVATIONS. PAYMENT UNDER ITEM #712531 - CHANNEL BED FILL.
- B. OTHER AREAS OF THE CHANNEL BOTTOM AFFECTED BY CONSTRUCTION (INCLUDING, BUT NOT LIMITED TO, THE LOCATION OF SUMP PITS, STABILIZED OUTFALLS, TEMPORARY PIPES AND/OR SANDBAG DIKES AND DIVERSIONS) SHALL BE RESTORED TO EXISTING CONDITIONS. ANY CAVITIES OR SCOUR HOLES RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE FILLED WITH CHANNEL BED FILL. PAYMENT UNDER ITEM #712531 - CHANNEL BED FILL.
- C. WHEN ALL EROSION AND SEDIMENT CONTROL MEASURES ARE REMOVED AND THE STREAM RETURNS TO ITS NATURAL FLOW CONDITIONS, THE FLOW MUST REMAIN ABOVE GROUND AND ABOVE THE RIPRAP (I.E. THE FLOW CANNOT BE "LOST" IN THE RIPRAP OR BENEATH THE STRUCTURE). IF THIS IS NOT ACHIEVED, THE CONTRACTOR WILL BE REQUIRED TO TAKE CORRECTIVE ACTION AT THE CONTRACTOR'S EXPENSE.
- D. ALL RIPRAP ON THE STREAM BANK, OUTSIDE THE CHANNEL BED, SHALL BE CHOKED WITH DELAWARE #57 STONE, FILLED WITH TOPSOIL, AND SEEDED. PLACE JUST ENOUGH CHOKE MATERIAL TO PREVENT THE LOSS OF TOPSOIL THROUGH THE RIPRAP, AND THEN FINISH FILLING THE VOIDS WITH TOPSOIL SO THAT THE RIPRAP PEAKS ARE BARELY VISIBLE. AN ADDITIONAL 4-INCH TOPSOIL LAYER SHALL BE PLACED ON TOP OF THE RIPRAP. SLOPE SEEDING SHALL BE WITH ITEM #734531 STREAMBANK SEED MIX. FOLLOWING THE SEEDING OPERATION, ITEM #735535 SOIL RETENTION BLANKET MULCH, TYPE 5, OR OTHER BLANKET AS SHOWN ON THE PLANS SHALL BE INSTALLED. ALL WORK, STARTING WITH THE INITIAL CHOKING WITH TOPSOIL THROUGH THE SEEDING SHALL BE COMPLETED PRIOR TO ANY RAIN EVENT. DELAWARE #57 STONE SHALL BE INCIDENTAL TO THE RIPRAP ITEM.

- 5. PROTECTION OF RESOURCES: I. WETLAND AND STREAM RESOURCES OCCUR WITHIN AND IN THE VICINITY OF THE PROJECT. ACCESS INTO THESE RESOURCE AREAS WHICH IS NOT SPECIFICALLY AUTHORIZED BY THE ACOE AND DNREC PERMITS (AS ILLUSTRATED ON THESE ENVIRONMENTAL COMPLIANCE SHEETS) IS STRICTLY PROHIBITED. II. SILT FENCE SHALL BE USED ALONG THE LIMITS OF CONSTRUCTION IN ALL AREAS WHERE WATER/WETLANDS ARE BEING IMPACTED (AS SHOWN ON EC SHEETS), AND ALSO IN ANY AREA WHERE WATER/WETLANDS EXIST WITHIN 20 FEET OF THE LOC (AS SHOWN ON CONSTRUCTION PLANS). CONTRACTOR ACCESS BEYOND THE LOC IS STRICTLY PROHIBITED.
- 6. CLEARING IN WETLAND AREAS SHALL BE KEPT TO A MINIMUM ABSOLUTELY NECESSARY FOR CONSTRUCTION ACCESS. IN WETLAND AREAS THAT ARE CLEARED, THERE SHALL BE NO GRUBBING EXCEPT WHERE NECESSARY TO CONSTRUCT PROJECT COMPONENTS SUCH AS FOUNDATIONS AND RIPRAP PROTECTION. VEGETATION SHALL BE CUT FLUSH WITH THE GROUND (I.E. NO DISTURBANCE OF THE ROOT MAT). TEMPORARILY DISTURBED WETLAND AREAS SHALL BE RESTORED TO GRADE AND SEEDED WITH TEMPORARY GRASS SEEDING - DRY GROUND, (PAYMENT UNDER ITEM 734017).
- 7. PLANTING GUIDANCE (INFORMATIONAL ONLY, WORK TO BE DONE BY OTHERS. THERE SHALL BE NO PAYMENT FOR PLANTING ON THIS CONTRACT.): UPON FINAL ACCEPTANCE OF THE CONTRACT, APPROPRIATE TREES AND/OR SHRUBS SHALL BE PLANTED, IN A NATURALIZED PATTERN (MINIMUM 8', MAXIMUM 12' CENTERS). DESIRED RATIO IS ONE TREE OR TWO SHRUBS PER 100 FT² OF DISTURBED WOODED WETLAND AREA, WITHIN THE LIMIT OF CONSTRUCTION. IT IS ANTICIPATED THAT A MAXIMUM OF 4 TREES OR 8 SHRUBS WILL BE REQUIRED. FINAL COUNTS WILL BE BASED ON FIELD CONDITIONS AND DETERMINED BY THE ROADSIDE ENVIRONMENTAL ADMINISTRATOR OR HIS DESIGNEE. SPECIFIC PLANT SELECTION IS AT THE DISCRETION OF THE ROADSIDE ENVIRONMENTAL ADMINISTRATOR OR HIS DESIGNEE BUT SHALL BE A NATIVE SPECIES APPROVED BY THE DELAWARE DEPARTMENT OF NATURAL RESOURCES.



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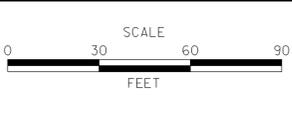


LEGEND	
	CREATION AREA
	PERMANENT IMPACT AREA
	TEMPORARY IMPACT AREA
--- OHW ---	ORDINARY HIGH WATER
--- OHW/WL ---	ORD. HIGH WATER / WETLAND
--- WL ---	WETLAND BOUNDARY
--- SML ---	STATE MAPPED LINE
--- SMW ---	STATE MAPPED WETLAND
--- POHW ---	PROPOSED ORDINARY HIGH WATER
	IMPACT AREA TYPE ID. (SEE BELOW)
	IMPACT AREA ID. AND/OR NUMBER
O = OPEN WATER IMPACT T = TEMPORARY IMPACT	
W = WETLAND IMPACT	

WETLANDS DELINEATED AND REGIONAL SUPPLEMENTS BY THOM NOBLE ON 09-11-2012 IN ACCORDANCE WITH THE US ARMY CORPS OF ENGINEERS "CORPS OF ENGINEERS WETLAND DELINEATION MANUAL (1987)". ORIGINAL SHEET PREPARED BY SUSAN MALDONADO ON 09-14-2012. SHEET LAST UPDATED ON 08-14-2013.



ADDENDUMS / REVISIONS



**BR 2-016B ON K016
N. LITTLE CREEK ROAD
OVER LITTLE RIVER**

CONTRACT T201207502	BRIDGE NO. DESIGNED BY: S.M.	2-016B
COUNTY KENT	CHECKED BY: M.J.G.	

ENVIRONMENTAL COMPLIANCE PLAN	SHEET NO. 13
	TOTAL SHTS. 20

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WETLAND IMPACT AREA SCHEDULE					
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
W-1	RIPRAP AREA	151.9	0.0035	N/A	USACE
W-2	RIPRAP AREA	116.6	0.0027	N/A	USACE
W-3	RIPRAP AREA	239.43	0.0055	N/A	USACE
W-4	RIPRAP AREA	193.63	0.0044	N/A	USACE/DNREC (IM)
W-5	RIPRAP AREA	367.71	0.0084	N/A	USACE
W-6	TOE OF SLOPE	56.2	0.0013	N/A	USACE
W-7	TOE OF SLOPE	103.6	0.0024	N/A	USACE
W-8	TOE OF SLOPE	392.13	0.0090	N/A	USACE
TOTAL PERMANENT WETLAND IMPACTS		193.63	0.0044	N/A	DNREC (IM)
TOTAL PERMANENT WETLAND IMPACTS		1621.2	0.0372	N/A	USACE
WT-1	WORK AREA	825.9	0.0190	N/A	USACE
WT-2	WORK AREA	37.3	0.0009	N/A	USACE
WT-3	WORK AREA	975.23	0.0224	N/A	USACE
WT-4	WORK AREA	1573.25	0.0361	N/A	USACE/DNREC (IM)
WT-5	WORK AREA	1238.05	0.0283	N/A	USACE
TOTAL TEMPORARY WETLAND IMPACTS		1573.25	0.0361	N/A	DNREC (IM)
TOTAL TEMPORARY WETLAND IMPACTS		4649.73	0.1067	N/A	USACE

IM = IMPOUNDED MARSH

OPEN WATER IMPACT AREA SCHEDULE					
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
O-1	RIPRAP AREA	2014.7	0.0463	142.2	USACE/DNREC (IW)
TOTAL PERMANENT OPEN WATER IMPACTS		2014.7	0.0463	142.2	DNREC (IW)
TOTAL PERMANENT OPEN WATER IMPACTS		2014.7	0.0463	142.2	USACE
OT-1	SANDBAG AREA	954.1	0.0220	65.0	USACE/DNREC (IW)
OT-2	SANDBAG & DISCHARGE AREA	834.1	0.0191	67.0	USACE/DNREC (IW)
OT-3	PIPE REMOVAL	1387.8	0.0318	411.1	USACE/DNREC (IW)
TOTAL TEMPORARY OPEN WATER IMPACTS		3176.0	0.0729	543.1	DNREC (IW)
TOTAL TEMPORARY OPEN WATER IMPACTS		3176.0	0.0729	543.1	USACE

IW = IMPOUNDED WATER

OPEN WATER CREATION AREA SCHEDULE					
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
OC-1	CHANNEL CREATION	303.6	0.0070	84.3	USACE/DNREC (IW)
TOTAL OPEN WATER CREATION AREAS		303.6	0.0070	84.3	DNREC (IW)
TOTAL OPEN WATER CREATION AREAS		303.6	0.0070	84.3	USACE

IW = IMPOUNDED WATER

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ADDENDUMS / REVISIONS	

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**BR 2-016B ON K016
N. LITTLE CREEK ROAD
OVER LITTLE RIVER**

CONTRACT	BRIDGE NO.	2-016B
T201207502	DESIGNED BY:	S.M.
COUNTY	CHECKED BY:	M.J.G.
KENT		

**ENVIRONMENTAL
COMPLIANCE PLAN**

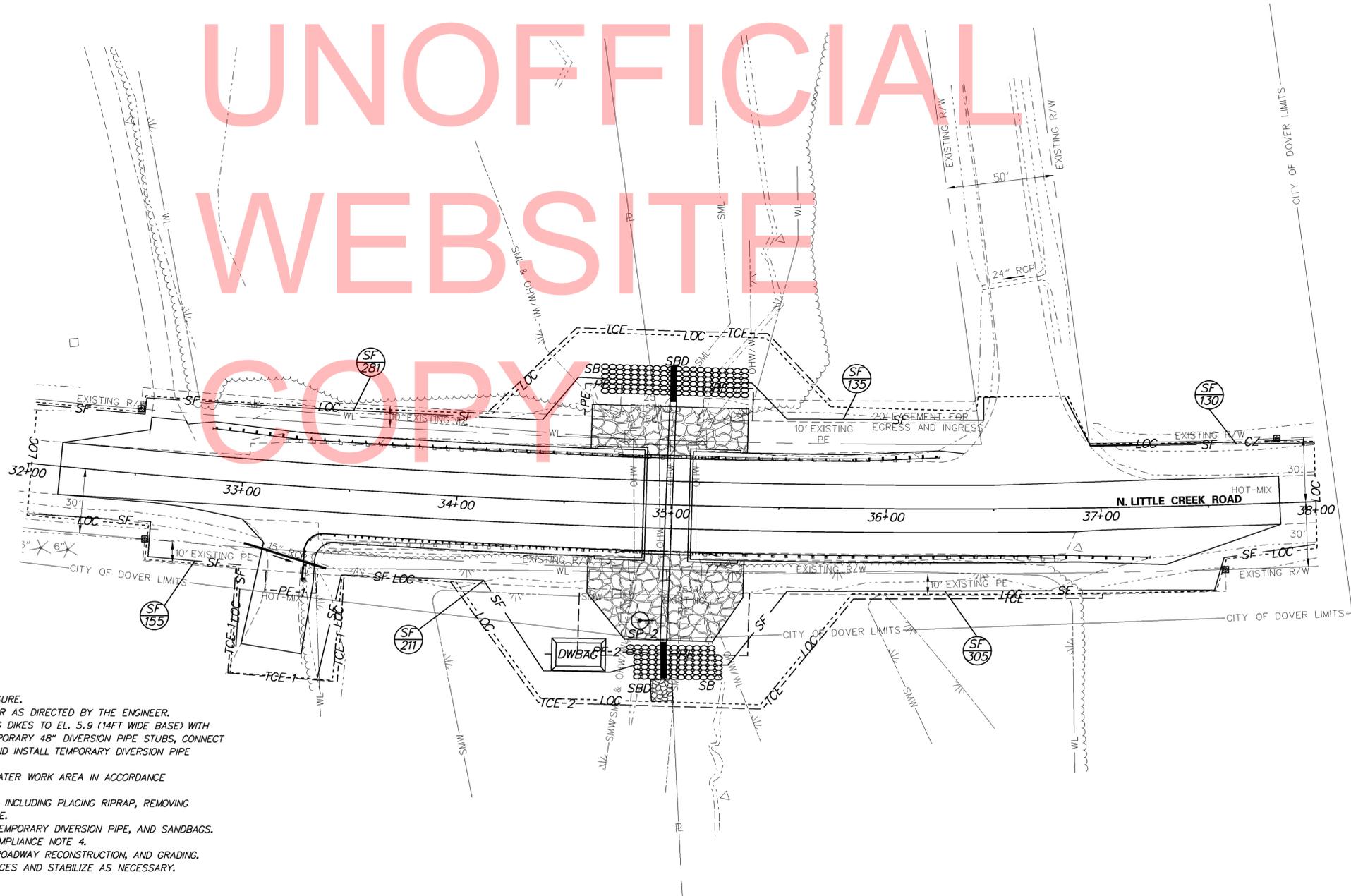
SHEET NO.	14
TOTAL SHTS.	19

W:\MSV8\CELLS\PROVIDE\SB\CEL





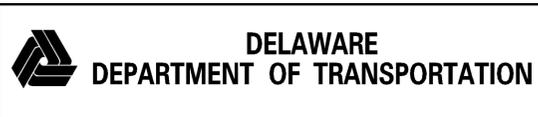
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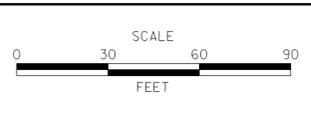
SEQUENCE OF CONSTRUCTION

1. PLACE CHANGEABLE MESSAGE BOARDS 10 DAYS PRIOR TO ROAD CLOSURE.
2. INSTALL ALL M.O.T. ITEMS AS SHOWN ON THE DETOUR PLAN SHEET OR AS DIRECTED BY THE ENGINEER.
3. INSTALL SILT FENCE AS SHOWN ON THE PLANS. CONSTRUCT SANDBAG DIKES TO EL. 5.9 (14FT WIDE BASE) WITH A 1FT DEEEP BY 5FT WIDE WEIR OPENING AT EL. 4.9, INCLUDING TEMPORARY 48\"/>

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ADDENDUMS / REVISIONS	



**BR 2-016B ON K016
N. LITTLE CREEK ROAD
OVER LITTLE RIVER**

CONTRACT T201207502	BRIDGE NO.	2-016B
COUNTY KENT	DESIGNED BY:	S.M.
	CHECKED BY:	M.J.G.

**CONSTRUCTION SEQUENCE
AND EROSION
CONTROL PLAN**

SHEET NO. 15	TOTAL SHTS. 20
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CHANGEABLE MESSAGE BOARDS

CMS-1
PRIOR TO DETOUR
(10 DAYS PRIOR TO BEGINNING OF DETOUR)

DE 8
TO CLOSE

STARTING
XXXXXX

CMS-2
PRIOR TO DETOUR
(10 DAYS PRIOR TO BEGINNING OF DETOUR)

DE 8
TO CLOSE

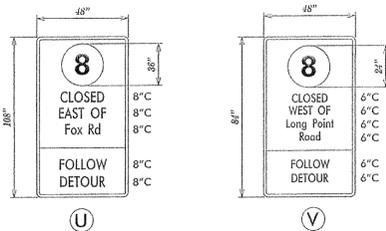
STARTING
XXXXXX

CMS-2
DURING DETOUR
(DISPLAY FOR 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

DE 8
CLOSED

FOLLOW
DETOUR

SPECIAL SIGNS

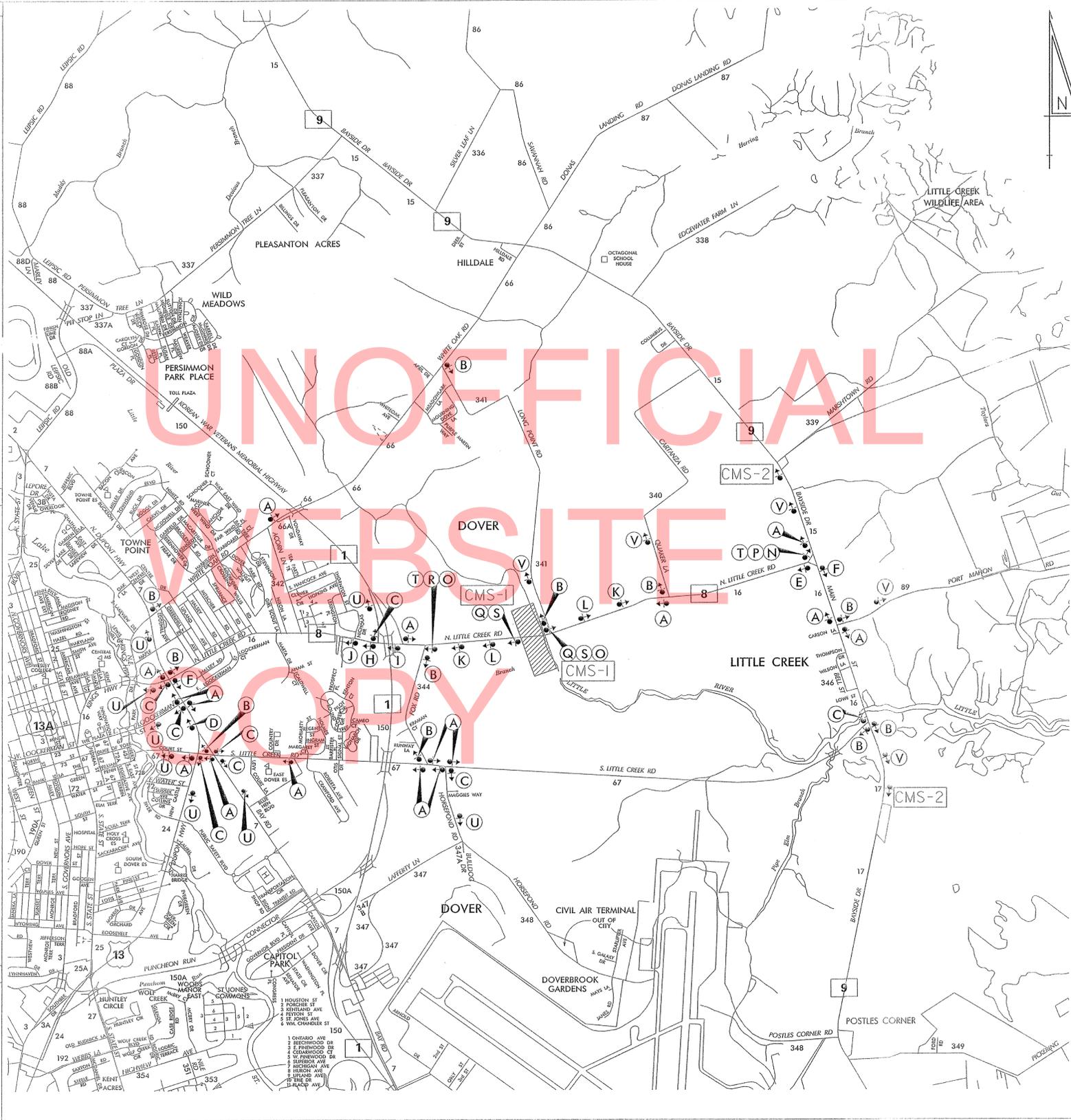


*D/G RETROREFLECTIVE FLUORESCENT ORANGE BACKGROUND; BLACK LEGEND

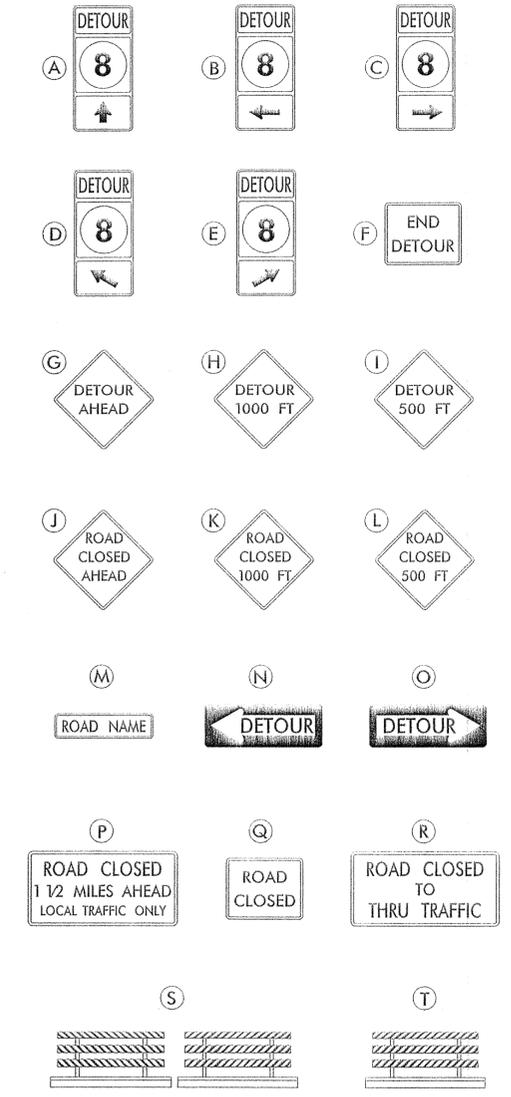
*ROUTE SHIELD- WHITE BACKGROUND; BLACK LEGEND

SPECIAL NOTES

1. ON MULTI-LANE DIVIDED HIGHWAYS, SPECIAL SIGNS AND TRAILBLAZERS SHALL BE PLACED ON BOTH SIDES OF THE DIRECTIONAL ROADWAY.



LEGEND



GENERAL NOTES

- ALL DETOUR SIGNING INCLUDING, TRAILBLAZERS, ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR IN COMPLIANCE TO THE DE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL COMPLY WITH GUIDELINES IN "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (DE- MUTCD PART 6) FOR LIGHTS, BARRICADES AND SIGNS, (AS PER LATEST REVISION)
- FIELD CONDITIONS MAY DICTATE CHANGES AT SOME TIME DURING THE LIFE OF THE CONTRACT. IN THE EVENT OF OMISSIONS OR CORRECTIONS, THE SIGNING PROVISIONS OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES WILL PREVAIL.
- SIGNS J THROUGH L AND P THROUGH R, THE WORD (ROAD) SHOULD BE CHANGED TO RAMP, R/R OR BRIDGE WHERE APPLICABLE.
- WARNING SIGNS SHOULD BE MOUNTED ON BREAKAWAY POSTS AND HAVE RETROREFLECTIVE FLUORESCENT SHEETING.
- "S" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF ROADWAY.
- BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

RECOMMENDED *Michael F Rivera* DATE: 7-18-12 RECOMMENDED *John Subda Sr* DATE: 7-18-12 APPROVED CHIEF SAFETY OFFICER *Samuel A. Murphy Jr* DATE: 7-24-12 APPROVED TRAFFIC ENGINEER *[Signature]* DATE: 7/24/12

<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	ADDENDUM / REVISIONS	<p>NOT TO SCALE</p> <p>BR 2-016B ROUTE 8 (N. LITTLE CREEK RD)</p>	CONTRACT T201207501 COUNTY KENT ROAD NO. K16 DESIGNED BY: MFR CHECKED BY: ASW	<p>DETOUR PLAN</p> <p>ROUTE 8 BETWEEN FOX RD AND LONG POINT RD</p>	SHEET NO. 16A TOTAL SHTS. 20	

G:\DOCUMENTS AND SETTINGS\MICHAEL_RIVERA\WORK\DOCUMENTS\MICRO STATION DGN\RT 8 - NORTH LITTLE CREEK RD BR2-016B.DGN

PORTABLE CHANGEABLE MESSAGE SIGNS

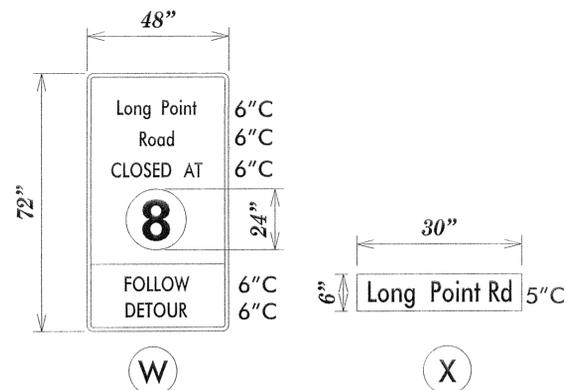
PRIOR TO DETOUR
(10 DAYS PRIOR TO BEGINNING OF DETOUR)

PCMS-3

LONG
POINT RD
AT DE 8

TO CLOSE
STARTING
XX/XX/XX

SPECIAL SIGNS



*DG RETROREFLECTIVE FLUORESCENT ORANGE BACKGROUND; BLACK LEGEND

P2

ROAD CLOSED
1 1/2 MILES AHEAD
LOCAL TRAFFIC ONLY

R11-3a

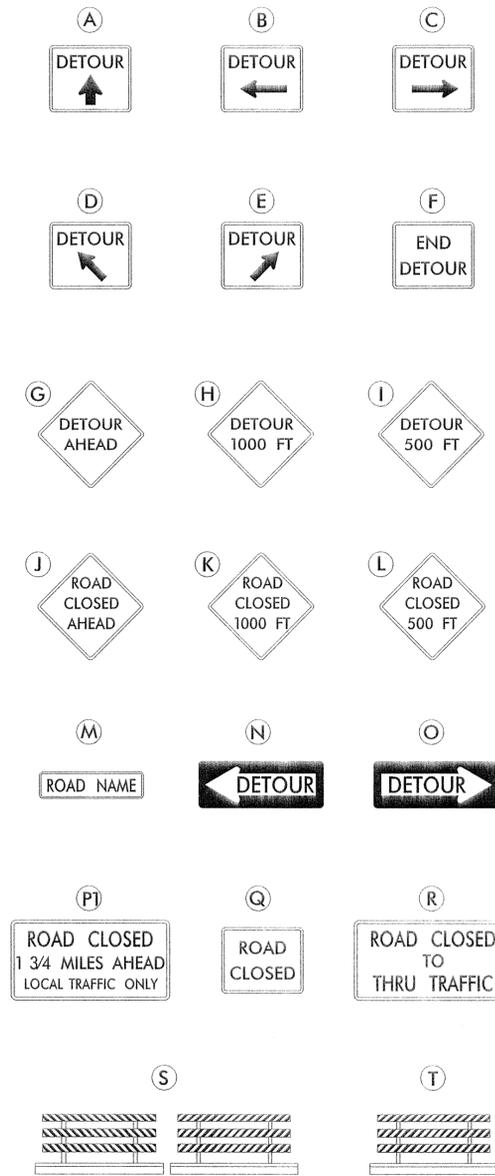
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SPECIAL NOTES

1. THE LONG POINT RD DETOUR SHALL BE IMPLEMENTED FOR ONLY THE PAVEMENT RECLAMATION IN THE INTERSECTION OF DE 8 AND LONG POINT RD, AFTER THE BRIDGE RECONSTRUCTION HAS OCCURRED.
2. THE LONG POINT RD DETOUR SHALL BE USED IN CONJUNCTION WITH THE DETOUR FOR DE 8. (SEE SHEET 16A)
3. CONTRACTOR SHALL MINIMIZE THE DURATION OF THE CLOSURE AT LONG POINT RD. WORK SHOULD OCCUR FRIDAY EVENING THROUGH MONDAY MORNING.



LEGEND



GENERAL NOTES

1. ALL DETOUR SIGNING INCLUDING, TRAILBLAZERS, ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR IN COMPLIANCE TO THE DE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
2. THE CONTRACTOR SHALL COMPLY WITH GUIDELINES IN "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (DE-MUTCD PART 6) FOR LIGHTS, BARRICADES AND SIGNS.(AS PER LATEST REVISION)
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4. SIGNS J THROUGH L AND P THROUGH R, THE WORD (ROAD) SHOULD BE CHANGED TO RAMP, R/R OR BRIDGE WHERE APPLICABLE.
5. WARNING SIGNS SHOULD BE MOUNTED ON BREAKAWAY POSTS AND HAVE RETROREFLECTIVE FLUORESCENT SHEETING.
6. "S" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF ROADWAY.
7. BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

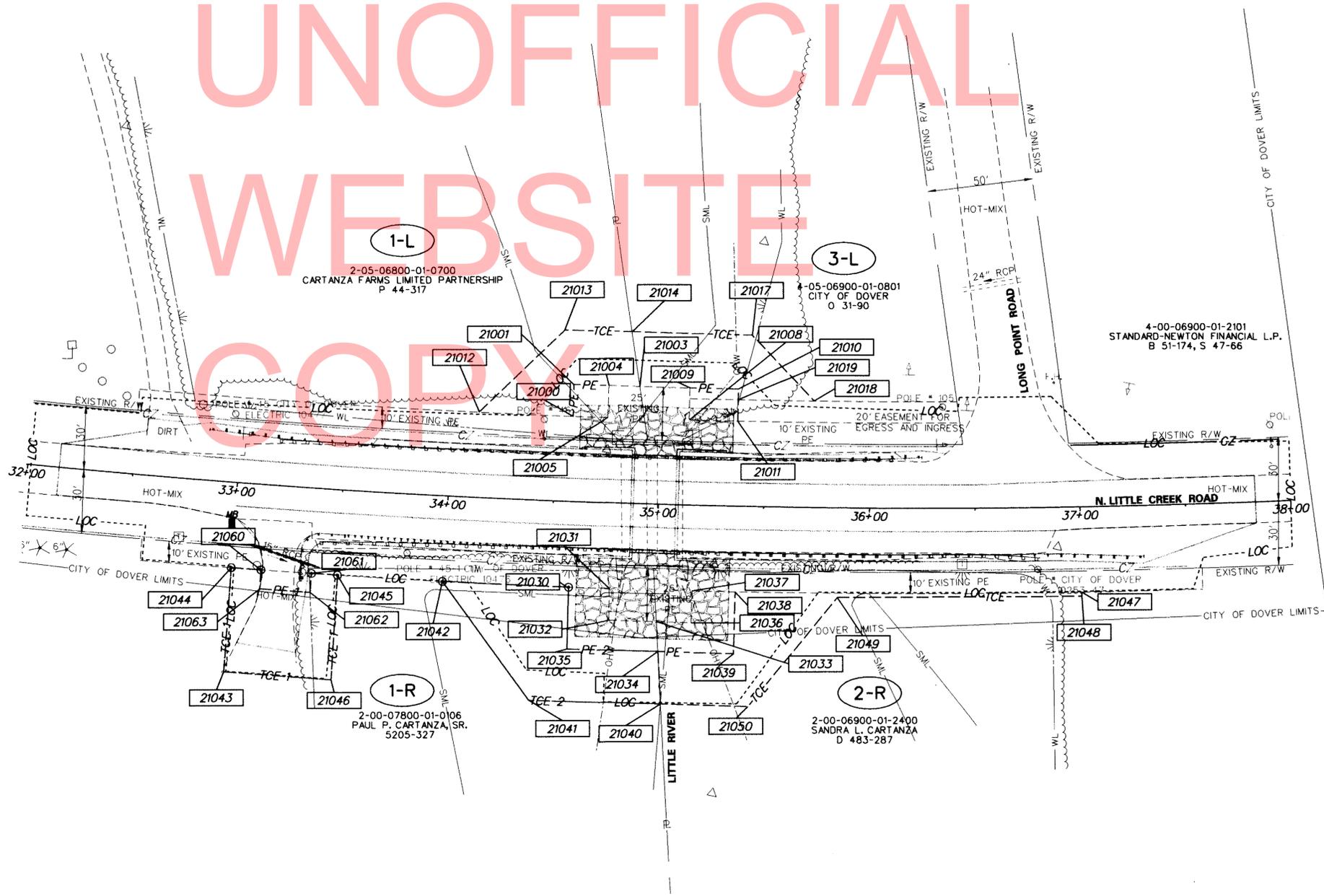
C:\DOCUMENTS AND SETTINGS\MICHAEL_RIVERA\MY DOCUMENTS\MICRO STATION DGN\LONG POINT RD.DGN

RECOMMENDED _____ DATE: _____ RECOMMENDED _____ DATE: _____ RECOMMENDED *Wht* DATE: 8-21-13 APPROVED CHIEF SAFETY OFFICER *ASW* DATE: 8/21/13 APPROVED TRAFFIC ENGINEER *ASW* DATE: 8/21/13

<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	ADDENDUM / REVISIONS		NOT TO SCALE	BR 2-016B ROUTE 8 N. LITTLE CREEK RD	CONTRACT	ROAD NO.	VEHICULAR DETOUR PLAN LONG POINT RD	SHEET NO.
					T201207502	K340		16B
					COUNTY	DESIGNED BY: MFR		TOTAL SHTS.
					KENT	CHECKED BY: ASW		20



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RECOMMENDED

Shelby Chavira 2/27/13
TEAM SUPPORT SQUAD MANAGER DATE

Heather A. Dull 2-27-13
TEAM SUPPORT ENGINEER DATE

Robert B. McCarty 2/27/13
ASSISTANT DIRECTOR, ENGINEERING SUPPORT DATE

"AS-ACQUIRED" PLANS

I CERTIFY THAT ALL PROPOSED RIGHT-OF-WAY HAS BEEN ACQUIRED IN THE NAME OF THE STATE OF DELAWARE AND THAT THESE PLANS ACCURATELY DEPICT THE NATURE AND EXTENT OF THE REAL ESTATE SECTION ACQUISITION UNDER THIS PROJECT.

CHIEF, REAL ESTATE DATE

Y:\KENT\BRIDGE\T201207502\PLANS\CP.DGN

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	BR 2-016B ON K016 N. LITTLE CREEK ROAD OVER LITTLE RIVER	CONTRACT T201207502	BRIDGE NO. 2-016B	RIGHT-OF-WAY PLAN	SHEET NO. 17
				COUNTY KENT	DESIGNED BY: S.M.		TOTAL SHTS. 19
				CHECKED BY: M.J.G.			

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
2-05-06800-01-0700	(1L) CARTANZA FARMS LIMITED PARTNERSHIP	P/E	P 44-317	168.950							
ALIGNMENT NUMBER & DESCRIPTION: 5000 - CONSTRUCTION BASELINE											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
21000	5000	34+58.03	-40.00	424865.9176	638864.4477	N 10°19'26.96" W	15.0008				
21001	5000	34+57.87	-55.00	424880.6755	638861.7593	N 80°09'09.31" E	16.7174				
21002	5000	34+74.81	-55.00	424883.5346	638878.2304	S 9°56'14.91" E	15.0000				
21005	5000	34+74.80	-40.00	424868.7597	638880.8190			S 80°09'05.72" W	16.6161	16.6161	4257.1800
21000	5000	34+58.03	-40.00	424865.9176	638864.4477						
FIGURE 3000 AREA = 250.0932 SQ. FT. (0.0057 ACRES)											

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
2-05-06800-01-0700	(1L) CARTANZA FARMS LIMITED PARTNERSHIP	TCE	P 44-317	168.950							
ALIGNMENT NUMBER & DESCRIPTION: 5000 - CONSTRUCTION BASELINE											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
21012	5000	34+12.76	-40.00	424858.5661	638820.2079	N 34°36'12.54" E	56.4147				
21013	5000	34+52.51	-80.58	424905.0012	638852.2454	N 79°43'43.83" E	31.9959				
21014	5000	34+85.12	-80.80	424910.7063	638883.7286	S 19°55'31.62" E	26.1808				
21003	5000	34+89.64	-55.00	424886.0927	638892.6509	S 79°56'27.00" W	14.6457				
21004	5000	34+74.81	-55.00	424883.5346	638878.2304	S 80°09'09.31" W	16.7174				
21001	5000	34+57.87	-55.00	424880.6755	638861.7593	S 10°19'26.96" E	15.0008				
21000	5000	34+58.03	-40.00	424865.9176	638864.4477			S 80°33'54.69" W	44.8465	44.8467	4257.1800
21012	5000	34+12.76	-40.00	424858.5661	638820.2079						
FIGURE 3001 AREA = 1763.5053 SQ. FT. (0.0405 ACRES)											

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
4-05-06900-01-0801	(3L) CITY OF DOVER	TCE	0 31-90	1.244							
ALIGNMENT NUMBER & DESCRIPTION: 5000 - CONSTRUCTION BASELINE											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
21003	5000	34+89.64	-55.00	424886.0927	638892.6509	N 19°55'31.62" W	26.1808				
21014	5000	34+85.12	-80.80	424910.7063	638883.7286	N 79°43'43.83" E	57.1706				
21017	5000	35+43.38	-80.59	424920.9064	638939.9819	S 55°13'57.65" E	42.6388				
21018	5000	35+73.54	-50.00	424896.5918	638975.0086			S 78°58'00.61" W	36.1172	36.1173	4247.1800
21019	5000	35+37.00	-50.00	424889.6798	638939.5590	N 10°47'22.37" W	5.0000				
21010	5000	35+37.00	-55.00	424894.5914	638938.6230	S 79°21'54.15" W	22.8960				
21009	5000	35+13.81	-55.00	424890.3660	638916.1203			S 79°40'50.84" W	23.8552	23.8553	4242.1800
21003	5000	34+89.64	-55.00	424886.0927	638892.6509						
FIGURE 3002 AREA = 1907.2762 SQ. FT. (0.0438 ACRES)											

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
4-05-06900-01-0801	(3L) CITY OF DOVER	P/E	0 31-90	1.244							
ALIGNMENT NUMBER & DESCRIPTION: 5000 - CONSTRUCTION BASELINE											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
21008	5000	35+13.80	-40.00	424875.6154	638918.8446	N 10°27'51.18" W	15.0000				
21009	5000	35+13.81	-55.00	424890.3660	638916.1203	N 79°21'54.15" E	22.8960				
21010	5000	35+37.00	-55.00	424894.5914	638938.6230	S 10°47'22.37" E	15.0000				
21011	5000	35+37.00	-40.00	424879.8566	638941.4310			S 79°21'54.36" W	22.9811	22.9812	4257.1800
21008	5000	35+13.80	-40.00	424875.6154	638918.8446						
FIGURE 3007 AREA = 344.3147 SQ. FT. (0.0079 ACRES)											

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
2-00-07800-01-0106	(1R) PAUL P. CARTANZA, SR.	P/E-1	5205-327	58.657							
ALIGNMENT NUMBER & DESCRIPTION: 5000 - CONSTRUCTION BASELINE											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
21060	5000	33+14.00	40.00	424764.8907	638734.3166	N 82°01'30.94" E	24.0001			24.0001	-4337.1800
21061	5000	33+37.73	40.00	424768.2204	638758.0846	S 7°48'58.37" E	9.0000				
21062	5000	33+37.78	49.00	424759.3039	638759.3086	N 82°01'32.06" W	24.0001				
21063	5000	33+14.00	49.00	424755.9743	638735.5406	N 7°48'58.37" W	9.0000				
21060	5000	33+14.00	40.00	424764.8907	638734.3166						
FIGURE 3009 AREA = 215.7359 SQ. FT. (0.0050 ACRES)											

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
2-00-07800-01-0106	(1R) PAUL P. CARTANZA, SR.	P/E-2	5205-327	58.657							
ALIGNMENT NUMBER & DESCRIPTION: 5000 - CONSTRUCTION BASELINE											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
21030	5000	34+58.71	40.00	424787.1858	638878.6520	N 80°07'34.28" E	19.4045			19.4045	-4337.1800
21031	5000	34+77.93	40.00	424790.5133	638897.7691	S 11°39'37.30" E	15.0063				
21032	5000	34+78.36	55.00	424775.8167	638900.8020	N 79°50'41.83" E	22.3853			22.3853	-4352.1800
21033	5000	35+00.46	55.00	424779.7635	638922.8367	S 14°49'21.54" E	13.9610				
21034	5000	35+01.55	68.10	424766.2671	638926.4083	S 79°43'33.10" W	43.2483				
21035	5000	34+58.98	69.12	424758.5534	638883.8535	N 10°17'46.37" W	29.1010				
21030	5000	34+58.71	40.00	424787.1858	638878.6520						
FIGURE 3004 AREA = 890.3951 SQ. FT. (0.0204 ACRES)											

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
2-00-07800-01-0106	(1R) PAUL P. CARTANZA, SR.	TCE-1	5205-327	58.657							
ALIGNMENT NUMBER & DESCRIPTION: 5000 - CONSTRUCTION BASELINE											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
21043	5000	33+00.00	88.97	424714.4571	638726.8159	N 7°37'46.37" W	48.9663				
21044	5000	33+00.00	40.00	424762.9918	638720.3145			N 82°16'37.63" E	14.1303	14.1303	-4337.1800
21060	5000	33+14.00	40.00	424754.8907	638734.3166	S 7°48'58.37" E	9.0000				
21063	5000	33+14.00	49.00	424755.9743	638735.5406	N 82°01'32.06" E	24.0001				
21062	5000	33+37.73	49.00	424759.3039	638759.3086	N 7°48'58.37" W	9.0001				
21061	5000	33+37.78	40.00	424768.2204	638758.0846			N 81°47'06.94" E	12.3350	12.3350	-4337.1800
21045	5000	33+50.00	40.00	424768.9829	638770.2930	S 8°17'46.37" E	49.2531				
21046	5000	33+50.00	89.25	424721.2452	638777.3998	S 82°21'24.84" W	51.0374				
21043	5000	33+00.00	88.97	424714.4571	638726.8159						
FIGURE 3003 AREA = 2274.1612 SQ. FT. (0.0522 ACRES)											

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
2-00-07800-01-0106	(1R) PAUL P. CARTANZA, SR.	TCE-2	5205-327	58.657							
ALIGNMENT NUMBER & DESCRIPTION: 5000 - CONSTRUCTION BASELINE											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
21030	5000	34+58.71	40.00	424787.1858	638878.6520	S 10°17'46.37" E	29.1010				
21035	5000	34+58.98	68.10	424758.5534	638883.8535	N 79°43'33.10" E	43.2483				
21034	5000	35+01.55	68.92	424766.2671	638926.4083	S 14°49'21.54" E	24.6519				
21040	5000	35+03.44	93.49	424742.4356	638932.7149	S 79°42'19.25" W	62.6033				
21041	5000	34+42.18	93.89	424731.2478	638871.1195	N 48°10'30.65" W	69.2775				
21042	5000	33+99.31	40.00	424777.4458	638819.4948			N 80°39'01.32" E	59.9537	59.9542	-4337.1800
21030	5000	34+58.71	40.00	424787.1858	638878.6520						
FIGURE 3005 AREA = 3168.1803 SQ. FT. (0.0727 ACRES)											

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
4-00-06900-01-2400	(2R) SANDRA L. CARTANZA	P/E	D 483-287	219.200							
ALIGNMENT NUMBER & DESCRIPTION: 5000 - CONSTRUCTION BASELINE											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
21033	5000	35+00.46	55.00	424779.7635	638922.8367			N 79°35'18.82" E	16.5653	16.5653	-4352.1800
21036	5000	35+16.82	55.00	424782.7571	638939.1292	N 9°50'26.59" W	15.0011				
21037	5000	35+17.00	40.00	424797.5374	638936.5654			N 79°20'34.25" E	20.3361	20.3361	-4337.1800
21038	5000	35+37.14	40.00	424801.2982	638956.5506	S 10°17'46.37" E	29.0918				
21039	5000	35+36.90	69.09	424772.6749	638961.7504	S 79°43'24.80" W	35.9183				
21034	5000	35+01.55	68.92	424766.2671	638926.4083	N 14°49'21.54" W	13.9610				
21033	5000	35+00.46	55.00	424779.7635	638922.8367						
FIGURE 3006 AREA = 815.7328 SQ. FT. (0.0187 ACRES)											

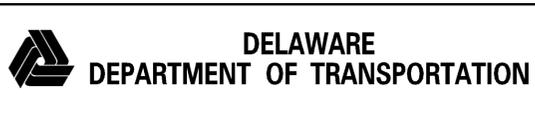
ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
4-00-06900-01-2400	(2R) SANDRA L. CARTANZA	TCE	D 483-287	219.200							
ALIGNMENT NUMBER & DESCRIPTION: 5000 - CONSTRUCTION BASELINE											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
21038	5000	35+37.14	40.00	424801.2982	638956.						

COUNTY ASSESSMENT PARCEL NUMBER	PLAN SHEET NUMBER	OWNERSHIP OF RECORD	TITLE SOURCE	PROPERTY AREA BEFORE ACQUISITION (ACRE) D=DEED C=CALCULATED A=ASSESSMENT	ACQUISITION CODE FEE, R/W, P/E, TCE	AREA TO BE ACQUIRED				PROPERTY AREA REMAINING (SQ. FEET /ACRES)	DEED RECORD OF ACQUISITION	REMARKS
						ACQUISITION (SQ. FEET /ACRES)	AREA OCCUPIED BY EXISTING RIGHT OF WAY (SQ. FEET /ACRES)	EASEMENT				
								PERMANENT (SQ. FEET /ACRES)	TEMPORARY (SQ. FEET /ACRES)			
2-05-06800-01-0700	17	(1L) CARTANZA FARMS LIMITED PARTNERSHIP	P 44-317	A - 168.95	P/E TCE			250.0932 / 0.01	1763.5053 / 0.04	7359480.00 / 168.95		
4-05-06900-01-0801	17	(3L) CITY OF DOVER	0 31-90	C - 1.24	TCE P/E			344.3147 / 0.01	1907.2762 / 0.04	54191.5526 / 1.24		229.5 SF (0.0053 ACRE) IS IN EGRESS AND INGRESS EASEMENT
2-00-07800-01-0106	17	(1R) PAUL P. CARTANZA, SR.	5205-327	D - 58.66	P/E-1 P/E-2 TCE-1 TCE-2			215.7359 / 0.00 890.3951 / 0.02	2274.1612 / 0.05 3168.1803 / 0.07	2555094.564 / 58.66		
4-00-06900-01-2400	17	(2R) SANDRA L. CARTANZA	D 483-287	D - 219.20	P/E TCE			815.7328 / 0.02	2603.5059 / 0.06	9548352.00 / 219.20		

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ACQUISITION CODES
FEE - ACQUISITION
R/W - AREA OCCUPIED BY EXISTING R/W
P/E - PERMANENT EASEMENT
TCE - TEMPORARY EASEMENT



ADDENDUMS / REVISIONS	

**BR 2-016B ON K016
N. LITTLE CREEK ROAD
OVER LITTLE RIVER**

CONTRACT T201207502	BRIDGE NO. 2-016B
COUNTY KENT	DESIGNED BY: S.M. CHECKED BY: M.J.G.

**RIGHT-OF-WAY
TABULATION SHEET**

SHEET NO. 19
TOTAL SHTS. 20