THE STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY UNITS

CONSTRUCTION & RIGHT-OF-WAY PLANS FOR:

BR 2-275A ON PARK BROWN ROAD OVER HORSEPEN ARM DITCH

CONTRACT NUMBER: T201507201

FEDERAL AID PROJECT NUMBER: EBROS-K275(02)

COUNTY: KENT **M.R. #:** 275

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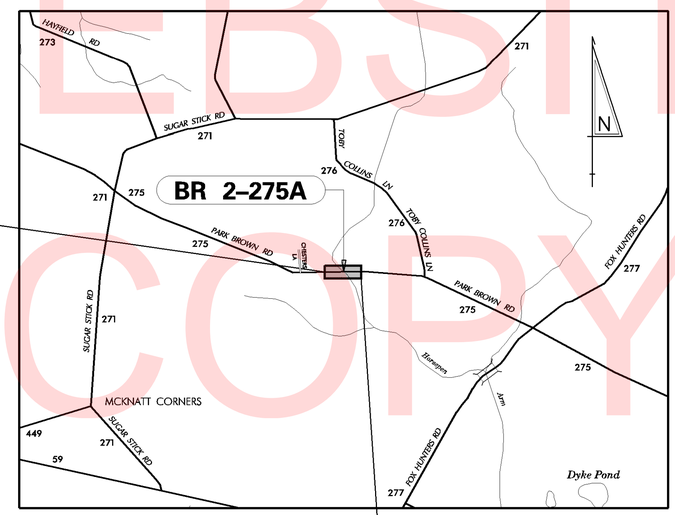
GENERAL LOCATION OF CONTRACT



BEGIN CONTRACT STATION 7+00

END CONTRACT STATION 10+75

DESIGN DESIGNATION

FUNCTIONAL CLASS: RURAL LOCAL	D.H.V. PROJECTED: 16	YEAR: 2040
TYPE OF CONSTRUCTION: BRIDGE REPLACEMENT	DESIGN SPEED: 55 M.P.H.	
A.A.D.T. CURRENT: 168 YEAR: 2013	TRUCKS: 10 %	
A.A.D.T. PROJECTED: 225 YEAR: 2040	DIRECTION OF DISTRIBUTION: 60 %	

INDEX OF SHEETS

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TOTAL SHEETS: 13

APPROVED DESIGN EXCEPTIONS

DESIGN PARAMETER	REQUIRED	PROVIDED	DATE

ADDENDA & REVISIONS

DESCRIPTION	NAME & DATE

ASSOCIATED CONTRACTS

CONTRACT NO.	CONTRACT NAME
1529	KENT ROADS, K274 AND K275, SR 12 TO K277

RECOMMENDED

AREA ENGINEER, CONSTRUCTION — DATE 09/01/2015

GROUP ENGINEER, CONSTRUCTION — DATE 09/09/2015

ASSISTANT DIRECTOR, CONSTRUCTION — DATE 09/09/2015

RECOMMENDED

STORMWATER ENGINEER

DATE 09/02/2015

VINCENT W. DAVIS REGISTERED No. 12898 DELAWARE PROFESSIONAL ENGINEER — SEAL

RECOMMENDED

SQUAD MANAGER, BRIDGE DESIGN

DATE 08/31/2015

CRAIG A. STEVENS LICENSE No. 15250 DELAWARE PROFESSIONAL ENGINEER — SEAL

RECOMMENDED

BRIDGE DESIGN ENGINEER

DATE 09/09/2015

JASON M. HASTINGS REGISTERED No. 13545 DELAWARE PROFESSIONAL ENGINEER — SEAL

RECOMMENDED

ASSISTANT DIRECTOR, BRIDGE

DATE 09/10/2015

BARRY A. BENTON REGISTERED No. 10774 DELAWARE PROFESSIONAL ENGINEER — SEAL

APPROVED

CHIEF ENGINEER

DATE 09/10/2015

ROBERT BRIAN McCLARY REGISTERED No. 8567 DELAWARE PROFESSIONAL ENGINEER — SEAL

LAST REVISED: 03/03/2011
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EXISTING SYMBOLS

DRAINAGE

	DITCH OR STREAM CENTERLINE
	DIRECTIONAL STREAM FLOW ARROW
C.B. / D.I.	DRAINAGE INLET
J.B.	DRAINAGE JUNCTION BOX
D	DRAINAGE MANHOLE
SIZE/TYPE LABEL	DRAINAGE PIPE AND FLOW ARROW
	DRAINAGE PIPE HEADWALL
	RIPRAP - AREA FEATURE
	RIPRAP - LINEAR FEATURE

MANMADE ROADSIDE FEATURES

	BOLLARD - STEEL POLE
	BOLLARD - WOOD POST
(TYPE LABEL)	CURB
(TYPE LABEL)	CURB AND GUTTER
	FENCE - CHAINLINK OR STRANDED
	FENCE - STOCKADE OR SPLIT RAIL
FP	FLAG POLE
	GUARDRAIL - STEEL BEAM
	GUARDRAIL - WIRE ROPE
LAMP	LAMP AND POST - RESIDENTIAL
MB	MAILBOX
PM	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
WL	DELINEATED WETLAND BOUNDARY LINE
	WOODS LINE BOUNDARY

RIGHT-OF-WAY SYMBOLS

C.M.	PROPERTY MARKER - CONCRETE MON.
I.P.	PROPERTY MARKER - IRON PIPE
100+00	HISTORIC RIGHT-OF-WAY BASELINE
	EXISTING RIGHT-OF-WAY
PB	EXISTING PROPERTY LINE
EASEMENT TYPE	EXISTING EASEMENT
DA	EXISTING DENIAL OF ACCESS
R/W-DA	EXISTING R/W & DENIAL OF ACCESS

SURVEY CONTROL & MONUMENTATION

B.M.	SURVEY BENCHMARK LOCATION
T.P.	SURVEY TIE POINT LOCATION
△	SURVEY TRAVERSE POINT
	POINT OF CURVATURE OR TANGENCY
	POINT OF INTERSECTING TANGENTS

UTILITY

	SOIL BORING LOCATION
	UTILITY TEST HOLE LOCATION
TV	CABLE TV DISTRIBUTION BOX
E	ELECTRIC MANHOLE
EM	ELECTRIC METER
E	ELECTRIC TRANSFORMER
	POLE MOUNTED LUMINAIRE
G	GAS MANHOLE
G.M.	GAS METER
G.V.	GAS VALVE
G.P.	GAS PUMP - SERVICE STATION
	RAILROAD TRACKS
S	SANITARY SEWER MANHOLE
S.V.	SANITARY SEWER VALVE
VENT	SANITARY SEWER VENT OR CLEANOUT
S.D.F.	SEPTIC DRAIN FIELD
B	TELEPHONE BOOTH
T	TELEPHONE MANHOLE
T	TELEPHONE TEST POINT
J.W.	TRAFFIC - CONDUIT JUNCTION WELL
	TRAFFIC - LIGHT POLE AND BASE
	TRAFFIC - PEDESTRIAN POLE & BASE
	TRAFFIC - SIGNAL CABINET & BASE
	TRAFFIC - SIGNAL POLE AND BASE
U	UTILITY BOX
	UTILITY POLE GUY WIRE ANCHOR
	UTILITY POLE
F.H.	WATER - FIRE HYDRANT
W.M.	WATER METER
W.V.	WATER VALVE
WELL	WELL HEAD
?	MANHOLE - UNDETERMINED OWNER

UTILITY COMPANY FACILITIES

VER-C	VERIZON
DEC-E	DELAWARE ELECTRIC COOPERATIVE

PROPOSED SYMBOLS

CONSTRUCTION

	CONCRETE SAFETY BARRIER - PERMANENT
BFS	BIOFILTRATION SWALE
	BOLLARD - STEEL POLE
	BOLLARD - WOOD POST
	BRICK PATTERNED SURFACE
	BUTT JOINT
100+00	CONSTRUCTION BASELINE
CSF	CONSTRUCTION SAFETY FENCE
	CURB, TYPE 1 & TYPE 3
	CURB, TYPE 2
	CURB & GUTTER, TYPE 1
	CURB & GUTTER, TYPE 2
	CURB & GUTTER, TYPE 3
	CURB & GUTTER, TYPE 4
CZ	CLEAR ZONE
	DRAINAGE INLET
	DITCH
	FENCE - METAL
	FENCE - WOOD
	FLARED 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
HC	HORIZONTAL CLEARANCE
	IMPACT ATTENUATOR
	JUNCTION BOX - DRAINAGE
LOC	LIMIT OF CONSTRUCTION
MB	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
DA	PROPOSED DENIAL OF ACCESS
PE	PROPOSED PERMANENT EASEMENT
R/W	PROPOSED RIGHT-OF-WAY
R/W-DA	PROPOSED R/W & DENIAL OF ACCESS
TCE	TEMPORARY CONSTRUCTION EASEMENT
100+00	PROPOSED RIGHT-OF-WAY BASELINE

IDENTIFIERS

A/C	ADJUST BY CONTRACTOR
A/O	ADJUST BY OTHERS
B	CONCRETE SAFETY BARRIER
C	CURB OR CURB & GUTTER
C.J.B.	CONVERT TO JUNCTION BOX
C.M.H.	CONVERT TO DRAINAGE MANHOLE
C/O	CURB OPENING
C.R.	CURB RAMP / TYPE
C.R.-W	CURB RAMP / TYPE - WITHOUT SIDEWALK SURFACE DETECTABLE WARNING SYSTEM
C.S.F.	CONSTRUCTION SAFETY FENCE
D.I.	DRAINAGE INLET
D.N.D.	DO NOT DISTURB
E.D.	ENERGY DISSIPATOR
F.	FENCE
F.E.S.	FLARED END SECTION
F.F./C	FILL WITH FLOWABLE FILL
F.S.	FILTRATION STRUCTURE
G.R.	GUARDRAIL
J.B.	JUNCTION BOX
M.H.	MANHOLE
M.	MONUMENT - RIGHT-OF-WAY
P.	PIPE
R.L./C	RELOCATE BY CONTRACTOR
R.L./O	RELOCATE BY OTHERS
R.M./C	REMOVE BY CONTRACTOR
R.M./O	REMOVE BY OTHERS
U.D.	UNDERDRAIN / LENGTH
U.O.P.	UNDERDRAIN OUTLET PIPE

LANDSCAPING

L.S.	LANDSCAPE PLANTINGS
	SHRUBBERY
	CONIFEROUS TREE
	DECIDUOUS TREE

TRAFFIC

ITMS-CON	ITMS CONDUIT
SIG-CON	SIGNAL CONDUIT
	CONDUIT JUNCTION WELL
	LUMINAIRE
	PAVEMENT MARKINGS
	PAVEMENT STRIPING
	TRAFFIC SIGN

UTILITY COMPANY FACILITIES

VER-C	VERIZON
DEC-E	DELAWARE ELECTRIC COOPERATIVE

PAVEMENT SECTION(S)

	OVERLAY PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS
	RECONSTRUCTED PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS
	DRIVEWAY AND ENTRANCE PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS

EROSION & SEDIMENT CONTROL

DWBAG	DEWATERING BAG
DWB	DEWATERING BASIN
ED	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
PST	PORTABLE SEDIMENT TANK
SBD	SANDBAG DIKE
SB	SANDBAG DIVERSION
	STONE CHECK DAM
SCE	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE / LENGTH
SF	SILT FENCE
RSF	SILT FENCE - REINFORCED
SP	SUMP PIT
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP WITH INLET AS OUTLET
ST	SEDIMENT TRAP PIPE OUTLET
SW	STILLING WELL
	TEMPORARY SWALE
TSD	TEMPORARY SLOPE DRAIN
	TURBIDITY CURTAIN / LENGTH
T	TURBIDITY CURTAIN

MISCELLANEOUS

	TOP OF BANK

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LAST REVISED: 01/30/2012
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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

NOT TO SCALE

BR 2-275A ON PARK BROWN ROAD OVER HORSEPEN ARM DITCH

CONTRACT T201507201	BRIDGE NO.	2-275A
COUNTY KENT	DESIGNED BY: SM	
	CHECKED BY: CAS	

LEGEND

SHEET NO. 2
TOTAL SHTS. 13

GENERAL NOTES

1. 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.

2.

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

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

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

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

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

5. 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. PAYMENT FOR ATSSA SUPERVISOR IS INCIDENTAL TO ITEM 743000.
( )	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. PAYMENT FOR ATSSA SUPERVISOR SHALL BE PAID FOR UNDER ITEM 743031.

6. THE DISTURBED AREA FOR THIS PROJECT IS 0.6179 ACRES.
   ADDED IMPERVIOUS AREA = 32.97 SF

7. THE SEDIMENT AND STORMWATER MANAGEMENT PLANS HAVE BEEN APPROVED BY DELDOT'S STORMWATER ENGINEER UNDER DELDOT'S DELEGATED AUTHORITY. THE SEDIMENT AND STORMWATER MANAGEMENT PLANS ARE VALID FOR A 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 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.

PROJECT NOTES

SECTION 100

1. ANY DAMAGE TO ITEMS NOTED TO BE RELOCATED OR RESET BY THE CONTRACTOR, AT THE DISCRETION OF THE ENGINEER, SHALL BE REPAIRED AND/OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.

SECTION 200

2. ITEMS TO BE REMOVED UNDER ITEM 211000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
   - 3 - 60" DIAMETER CMP
   - 4 - 18" DIAMETER CMP
   - SACKED RIPRAP
   - RIPRAP
   - PIPE HEADWALL

SECTION 300

3. 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 700

4. ALL PAVED AREAS TO BE RECONSTRUCTED OR WIDENED SHALL BE SAWCUT AT THE POINT WHERE THE NEW PAVEMENT IS TO TIE INTO THE EXISTING PAVEMENT. ALL HOT-MIX SAWCUTTING SHALL BE FULL DEPTH, UNLESS OTHERWISE NOTED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

5. ALL GEOTEXTILES SHALL BE KEYED UNDER ADJACENT SOIL OR RIPRAP A MINIMUM OF 6" IN LENGTH TO PREVENT FREE EDGES.

SECTION 900

6. 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.

7. EROSION CONTROL BLANKET MULCH SHALL BE PLACED ON ALL RIPRAP SLOPES ABOVE ORDINARY HIGH WATER (OHW) AND PLACED IN DITCHES AS DIRECTED BY THE ENGINEER, PAYMENT UNDER 908020. ALL OTHER AREAS SHALL BE SEEDED AND STABILIZED PER SECTION 908 - PAYMENT INCIDENTAL TO RESPECTIVE SEEDING ITEMS.

MISCELLANEOUS

8. HYDRAULIC DATA FOR BR 2-275A
   DRAINAGE AREA = 2.43 SQ. MILES
   DESIGN FREQUENCY = 25 YEARS — 25 YR FLOOD ELEVATION = 56.11 FT (UPSTREAM)
   DESIGN DISCHARGE = 334 CFS — PROPOSED OPENING = 58.90 SF

9. THE PROPOSED STRUCTURE HAS BEEN ANALYZED FOR THE EFFECTS OF SCOUR IN ACCORDANCE WITH HEC-14, "HYDRAULIC DESIGN OF ENERGY DISSIPATORS FOR CULVERTS AND CHANNELS" 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 VELOCITY = 8.80 FT/S
   DESIGN DISCHARGE = 550 CFS — DESIGN DEPTH OF FLOW = 7.6 FT

10. ENVIRONMENTAL COMPLIANCE: SEE ENVIRONMENTAL COMPLIANCE NOTES AND PLAN FOR FURTHER RESTRICTIONS/GUIDANCE ASSOCIATED WITH THIS PROJECT.

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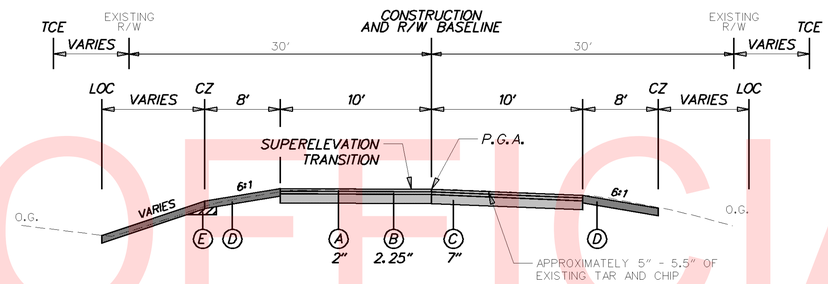
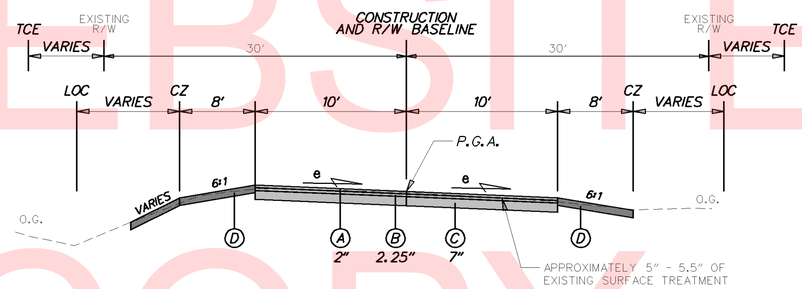
LEGEND

- (A) ITEM 401801 - BIT. CONCRETE, SUPERPAVE, TYPE C, 160 GYR., PG 64-22 (CARBONATE STONE)
- (B) ITEM 401810 - BIT. CONCRETE, SUPERPAVE, TYPE B, 160 GYR., PG 64-22
- (C) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (D) ITEM 908004 - TOPSOIL, 6" DEPTH
  ITEM 908019 - STREAMBANK SEED MIX, SEEDING
- (E) ITEM 209006 - BORROW, TYPE F

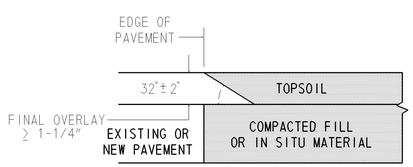


PARK BROWN ROAD
TYPICAL SECTION



PARK BROWN ROAD
FULL SUPERELEVATION SECTION
BEGIN @ STA. 8+28.00 & ENDS @ STA. 10+00.00
e = 0.042

MATERIAL	LIFT THICKNESS	
	MINIMUM	MAXIMUM
BITUMINOUS CONCRETE, TYPE 'C'	1.25"	2"
BITUMINOUS CONCRETE, TYPE 'B'	2.25"	4"
BITUMINOUS CONCRETE BASE COURSE	3"	6"
GRADED AGGREGATE BASE COURSE	-	8"



HOT-MIX PAVEMENTS AND OVERLAYS
NOT TO SCALE

SAFETY EDGE DETAIL
NOT TO SCALE

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	BR 2-275A ON PARK BROWN ROAD OVER HORSEPEN ARM DITCH	CONTRACT T201507201	BRIDGE NO. 2-275A	TYPICAL SECTIONS	SHEET NO. 4
				COUNTY KENT	DESIGNED BY: SM		TOTAL SHTS. 13
					CHECKED BY: CAS		

CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
10000	5+00.00	0.00	346062.7674	586992.7049
10003	18+54.77	0.00	346041.1788	588342.8985

CURVE INFORMATION 1			
	STATION	NORTHING	EASTING
Element: Circular			
PC (10001)	7+97.99	346091.1983	587289.3358
PI (11000)	10+67.03	346116.8673	587557.1504
CC (-)		343303.9714	587556.4807
PT (10002)	13+34.43	346091.0708	587824.9528
Radius:	2800.00		
Delta:	10° 58′ 37.1729″ Right		
Degree of Curvature(Arc):	2° 02′ 46.6002″		
Length:	536.44		
Tangent:	269.04		
Chord:	535.62		
Middle Ordinate:	12.84		
External:	12.90		
Tangent Direction:	N 84° 31′ 30.5247″ E		
Radial Direction:	S 5° 28′ 29.4753″ E		
Chord Direction:	S 89° 59′ 10.8889″ E		
Radial Direction:	S 5° 30′ 07.6976″ W		
Tangent Direction:	S 84° 29′ 52.3024″ E		

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HORIZONTAL / VERTICAL CONTROL DATA					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
TP #3	5+10.12	12.89	346050.9024	587004.0088	58.50
TP #4	11+15.06	168.58	345934.9849	587603.0151	54.03
TP #5	14+23.33	23.67	346058.9852	587911.1808	57.04
TP #7	12+94.61	-25.46	346119.9815	587787.3758	57.12
TP #8	7+29.76	-233.58	346317.2059	587199.1347	56.81

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.

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 50 100 150 FEET

BR 2-275A ON PARK BROWN ROAD OVER HORSEPEN ARM DITCH

CONTRACT T201507201 | COUNTY KENT | BRIDGE NO. 2-275A | DESIGNED BY: SM | CHECKED BY: CAS

HORIZONTAL AND VERTICAL CONTROL

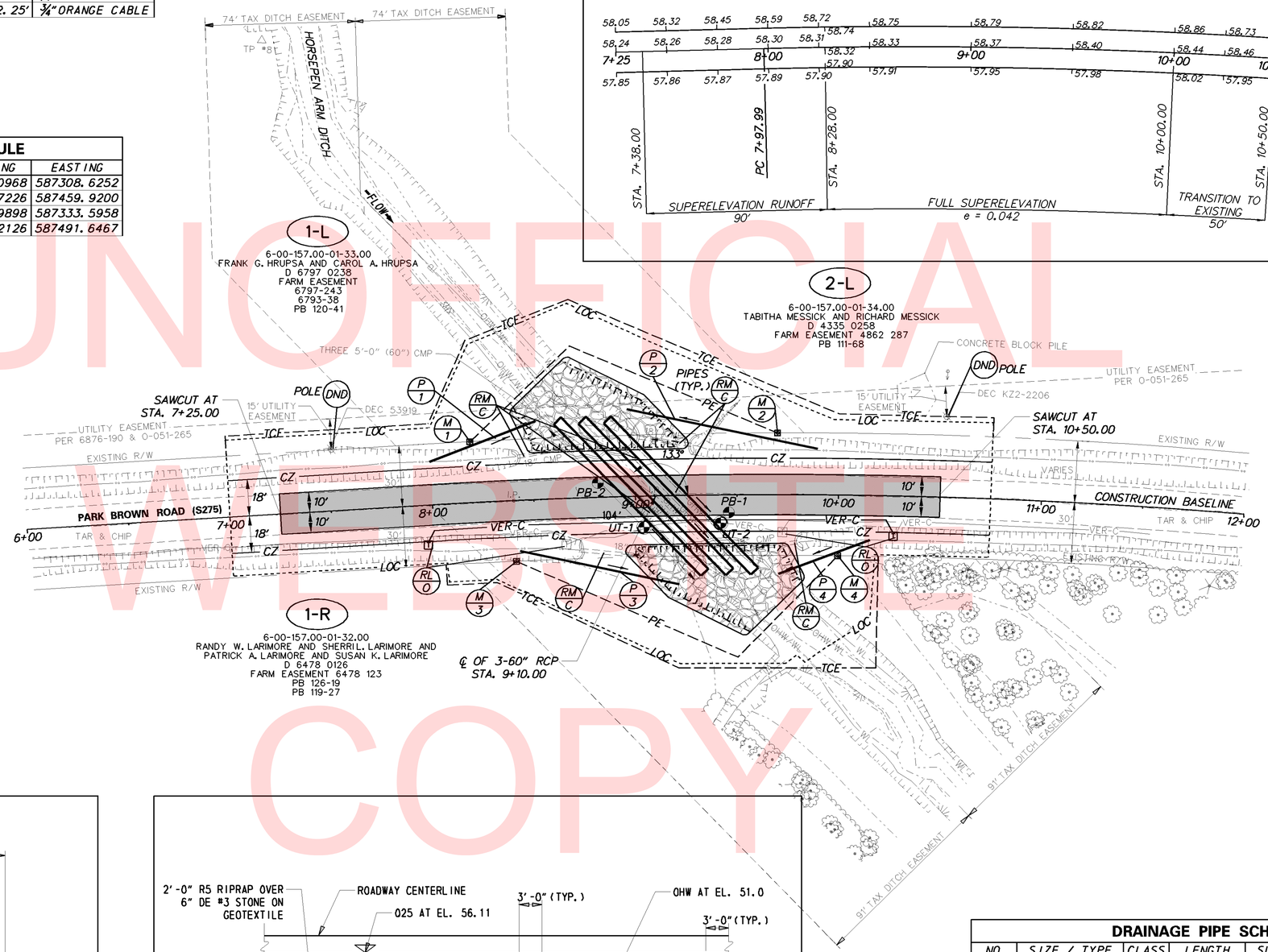
SHEET NO. 5 | TOTAL SHTS. 13

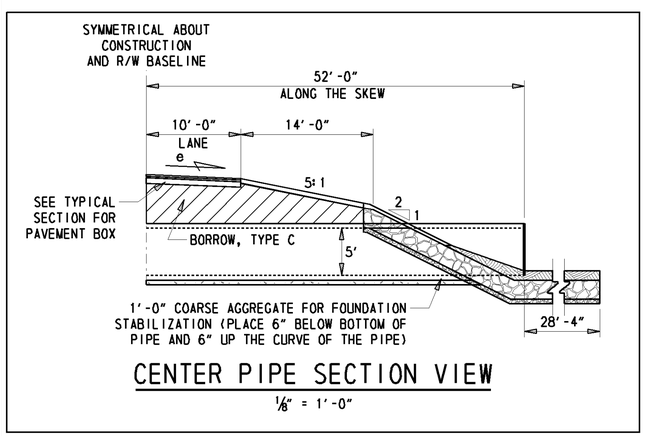
UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O.D. & MATERIAL
UT-1	VERIZON	9+03.80	15.40'	57.40	2.40'	¾" ORANGE CABLE
UT-2	VERIZON	9+41.77	13.99'	57.51	2.25'	¾" ORANGE CABLE

RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
1	CAPPED REBAR	8+20.00	-30.00'	346123.0968	587308.6252
2	CAPPED REBAR	9+70.00	-30.40'	346132.7226	587459.9200
3	CAPPED REBAR	8+40.00	30.00'	346064.9898	587333.5958
4	CAPPED REBAR	10+00.00	30.00'	346073.2126	587491.6467

SUPERELEVATION TRANSITION

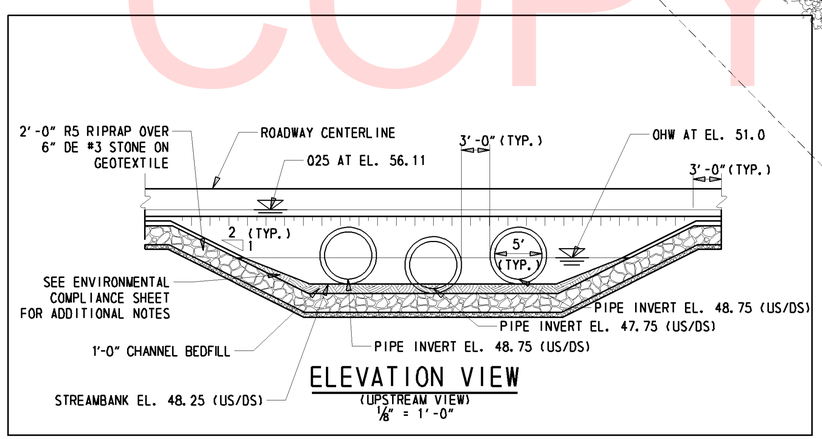
1" = 60'





CENTER PIPE SECTION VIEW

⅛" = 1'-0"



ELEVATION VIEW

(UPSTREAM VIEW)
⅛" = 1'-0"

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
1	18" / RCP	III	56.00'	0.0409	54.80	52.00
2	18" / RCP	III	96.00'	0.0172	54.91	52.00
3	18" / RCP	III	80.00'	0.0228	54.85	52.00
4	18" / RCP	III	48.00'	0.0452	54.67	52.00

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

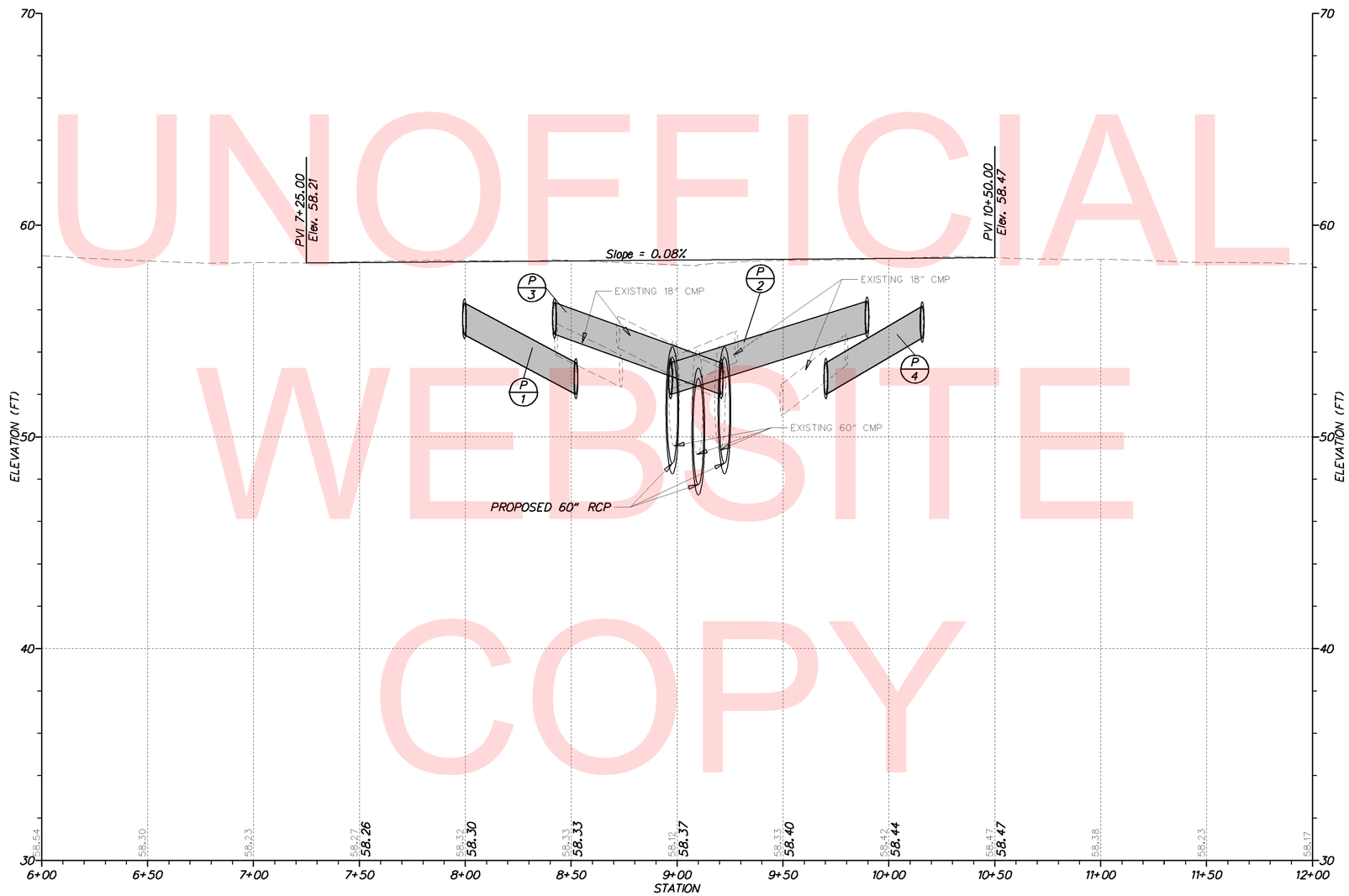
BR 2-275A ON PARK BROWN ROAD OVER HORSEPEN ARM DITCH

CONTRACT	BRIDGE NO.	2-275A
T201507201	DESIGNED BY: SM/SW	
COUNTY		
KENT	CHECKED BY: CAS	

CONSTRUCTION PLAN

SHEET NO. 6

TOTAL SHTS. 13



PARK BROWN ROAD (MR 275)

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VERTICAL SCALE FEET 0 3 6 9

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

BR 2-275A ON PARK BROWN ROAD OVER HORSEPEN ARM DITCH

CONTRACT	BRIDGE NO.	2-275A
T201507201	DESIGNED BY: SM	
COUNTY		
KENT	CHECKED BY: CAS	

PROFILE

SHEET NO. 7

TOTAL SHTS. 13

BORING: PB-1 | **DATE DRILLED:** 03/16/15
STATION: 9+45.89 | **OFFSET:** 8.74' | **ELEVATION:** 50.40 | **NORTHING:** 346092.684 | **EASTING:** 587437.234
COMMENTS: N/A

SAMPLE INFORMATION

NO.	DEPTH	BLOWS /6"	DESCRIPTION	CLASS /G.I.	REMARKS
1	0 2	1 3 5 5	MOIST LOOSE LIGHT- BROWN FINE SANDY COARSE SAND W/ SOME SILT W/SOME OF FINE GRAVEL	A-1-B	
2	2 4	2 2 2 3	SAT SOFT DARK- GRAY FINE SANDY SILT W/ SOME COARSE SAND TRACE OF FINE GRAVEL TRACE OF CLAY	A-4(0)	GROUNDWATER ENCOUNTERED
3	4 6	1 3 3 5	SAT FIRM GRAY FINE SANDY SILT SOME CLAY TRACE OF COARSE SAND TRACE OF FINE GRAVEL	A-4(0)	
4	6 8	5 6 5 6	SAT STIFF LIGHT- GRAY FINE SANDY CLAYEY SILT TRACE OF COARSE SAND TRACE OF FINE GRAVEL	A-4(1)	
5	8 10	2 3 3 3	SAT FIRM GRAY FINE SANDY CLAYEY SILT W/ SOME COARSE SAND TRACE OF FINE GRAVEL	A-4(0)	APPROXIMATE BOTTOM LOCATION OF CENTER PIPE
6	13 15	1 2 1 1	SAT V. LOOSE LIGHT- GRAY SILTY FINE TO COARSE SAND CLAYEY TRACE OF FINE GRAVEL	A-2-4(0)	
7	18 20	3 3 4 5	SAT LOOSE GRAY FINE SANDY COARSE SAND W/ SOME SILT TRAC OF FINE GRAVEL	A-2-4(0)	
8	23 25	5 6 7 12	SAT M.DENSE GRAY FINE SANDY COARSE SAND W/ SOME SILT TRAC OF FINE GRAVEL	A-1-B	
9	28 30	2 4 10 10	SAT M.DENSE GRAY FINE SANDY COARSE SAND W/ SOME SILT TRAC OF FINE GRAVEL	A-1-B	
10	33 35	18 19 12 13	SAT DENSE GRAY COARSE SANDY FINE SAND W/ SOME SILT W/ SOME OF FINE GRAVEL	A-2-4(0)	
11	38 40	1 12 12 15	SAT M.DENSE BROWN- GREEN FINE SANDY COARSE SAND TRACE OF SILT TRACE OF FINE GRAVEL	A-1-B	
12	43 45	5 18 25 26	SAT DENSE GREENISH GRAY TO BROWN FINE TO COARSE SAND W/SOME OF FINE GRAVEL TRACE OF SILT	A-1-B	
13	48 50	10 20 17 13	SAT DENSE LIGHT GRAY TO GRENNISH GRAY COARSE SANDY FINE SAND W/ SOME SILT W/ SOME OF FINE GRAVEL	A-2-4(0)	
			END OF THE BORING		

BORING: PB-2 | **DATE DRILLED:** 03/16/15
STATION: 8+81.63 | **OFFSET:** -7.03' | **ELEVATION:** 50.14 | **NORTHING:** 346104.944 | **EASTING:** 587372.235
COMMENTS: N/A

SAMPLE INFORMATION

NO.	DEPTH	BLOWS /6"	DESCRIPTION	CLASS /G.I.	REMARKS
1	0 2	3 7 10 9	MOIST M.DENSE ORANGE FINE SANDY FINEGRAVELLY COARSE SAND TRACE OF SILT	A-1-B	
2	2 4	4 6 5 3	SAT M.DENSE ORANGE FINE SANDY COARSESAND W/ SOME SILT W/ SOME OF FINEGRAVEL	A-1-B	GROUNDWATER ENCOUNTERED
3	4 6	2 2 2 3	SAT SOFT DARK- GRAY FINE SANDY CLAYEYSILT TRACE OF COARSE SAND	A-4(2)	
4	6 8		SHELBY TUBE		
5	8 10	1 2 3 4	SAT LOOSE GRAY SILTY COARSE SANDY FINESAND SOME CLAY TRACE OF FINE GRAVEL	A-2-4(0)	APPROXIMATE BOTTOM LOCATION OF CENTER PIPE
6	13 15	1 3 2 1	SAT LOOSE GRAY SILTY FINE SAND W/ SOMECOARSE SAND TRACE OF FINE GRAVEL	A-2-4(0)	
7	18 20	2 5 4 4	SAT LOOSE DARK- GRAY FINE SANDY FINEGRAVELLY COARSE SAND W/ SOME SILT	A-1-B	
8	23 25	1 3 3 7	SAT LOOSE LIGHT- GRAY COARSE SANDY FINESAND W/ SOME SILT TRACE OF FINE GRAVEL	A-2-4(0)	
9	28 30	1 1 3 6	SAT V. LOOSE LIGHT- GRAY FINE SAND W/SOME SILT W/ SOME COARSE SAND TRACE OFFINE GRAVEL	A-2-4(0)	
10	33 35	14 14 25 23	SAT DENSE LIGHT- GRAY COARSE SANDY FINESAND W/ SOME SILT W/ SOME OF FINE GRAVEL	A-2-4(0)	
11	38 40	4 11 15 22	SAT M.DENSE GRAY FINE SANDY COARSE SAND SOME SILT W/ SOME OF FINE GRAVEL	A-1-B	
12	43 45	6 17 21 25	SAT DENSE LIGHT- GRAY TO GREENISHBROWN FINE GRAVELLY COARSE SAND W/ SOMEFINE SAND TRACE OF SILT	A-1-B	
13	48 50	3 10 11 23	SAT M.DENSE GENNISH GRAY TO BROWN COARSESANDY FINE SAND W/ SOME SILT W/ SOME OFFINE GRAVEL	A-2-4(0)	
			END OF THE BORING		

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

BR 2-275A ON PARK BROWN ROAD OVER HORSEPEN ARM DITCH

CONTRACT	BRIDGE NO. 2-275A	SOIL BORING LOGS	SHEET NO.
T201507201	DESIGNED BY: SM		8
COUNTY			TOTAL SHTS.
KENT	CHECKED BY: CAS		13

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): NATIONWIDE PERMIT (NWP) #3 (a) AND (c) WITH NO PRECONSTRUCTION NOTIFICATION (PCN) REQUIRED
DNREC - WETLANDS & SUBAQUEOUS LANDS (WLSL): DELAWARE CODE CHAPTER 72, SECTION 7217, SPECIAL EXEMPTION (b)
DNREC - WATER QUALITY (WQC) & COASTAL ZONE CONSISTENCY (CZM): ISSUED

* THE PERMITS/APPROVALS LISTED ARE THOSE REQUIRED FOR THIS PROJECT. THE ENVIRONMENTAL STUDIES SECTION IS RESPONSIBLE FOR COORDINATING AND/OR OBTAINING THIS APPROVAL.

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

3. CULTURAL RESOURCE ISSUES: NONE

4. STREAM RESTORATION AND SLOPE RIPRAP TREATMENTS:

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. IF THE SUFFICIENT SOURCES FOR CHANNEL BED FILL DO NOT EXIST ON-SITE, ANY NEW MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF ITEM #712531 - CHANNEL BED FILL. ALL RIP-RAP 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 RIP-RAP ARE FILLED WITH MATERIAL. PAYMENT UNDER ITEM #209002 - BORROW TYPE 'B'. THE RIP-RAP SHALL THEN BE COVERED WITH A MINIMUM OF 6" CHANNEL BED FILL. FINAL CHANNEL ELEVATIONS SHALL MATCH EXISTING ELEVATIONS AT THE UPSTREAM AND DOWNSTREAM PROJECT LIMITS. THROUGH THE STRUCTURE, ELEVATIONS SHALL BE AS NOTED ON THE PLANS. 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 RIP-RAP (I.E. THE FLOW CANNOT BE "LOST" IN THE RIP-RAP 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 RIP-RAP 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 RIP-RAP, AND THEN FINISH FILLING THE VOIDS WITH TOPSOIL SO THAT THE RIP-RAP PEAKS ARE BARELY VISIBLE. AN ADDITIONAL 4-INCH TOPSOIL LAYER SHALL BE PLACED ON TOP OF THE RIP-RAP. SLOPE SEEDING SHALL BE AS PER ITEM #908019 - STREAMBANK SEED MIX. FOLLOWING THE SEEDING OPERATION, ITEM #908020 - EROSION CONTROL BLANKET MULCH, 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. PAYMENT FOR DELAWARE #57 STONE SHALL BE INCIDENTAL TO THE RIP-RAP ITEM. ALL OTHER ITEMS SHALL BE PAID FOR UNDER THEIR RESPECTIVE ITEMS.

E. THE TOPSOIL/SEED/MULCH CAN BE PLACED BEFORE OR AFTER THE REMOVAL OF THE STREAM DIVERSION. IF IT OCCURS AFTER STREAM DIVERSION REMOVAL, A TURBIDITY CURTAIN SHALL BE USED TO MINIMIZE IN-STREAM SEDIMENTATION. PAYMENT SHALL BE INCIDENTAL TO ITEM #909005 - STREAM DIVERSION.

5. PROTECTION OF RESOURCES:

A. 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 908017).

B. SILT FENCE OR CONSTRUCTION SAFETY FENCE SHALL BE USED ALONG THE LIMITS OF CONSTRUCTION IN ALL AREAS WHERE WATER/WETLANDS ARE BEING IMPACTED (AS SHOWN ON EC SHEETS). CONTRACTOR ACCESS BEYOND THE LOC IS STRICTLY PROHIBITED.

5. PROTECTION OF RESOURCES (CONT.):

C. SILT FENCE INSTALLATION ADJACENT TO WOODED UPLANDS AND/OR WOODED WETLANDS: PROVIDED PROPER EROSION AND SEDIMENT CONTROL CAN BE MAINTAINED, IT IS RECOMMENDED THAT SANDBAGS BE USED TO SECURE SILT FENCE IN LIEU OF TRENCHING SANDBAGS USED TO SECURE SILT FENCE SHALL BE INCIDENTAL TO ITEM NUMBER 905001 - SILT FENCE. THE ENVIRONMENTAL STUDIES SECTION (CAROL SULLIVAN, 302-760-2129) CAN PROVIDE FURTHER GUIDANCE REGARDING THIS METHOD OF INSTALLATION.

WETLANDS DELINEATED BY KEN DUNNE ON 03-11-2015 IN ACCORDANCE WITH THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL (1987) AND THE ATLANTIC GULF COAST REGIONAL SUPPLEMENT (2010).

ORIGINAL SHEET PREPARED BY SUSAN MALDONADO ON 04-12-2015. SHEET LAST UPDATED ON 04-21-2015.

OPEN WATER CREATION AREA SCHEDULE

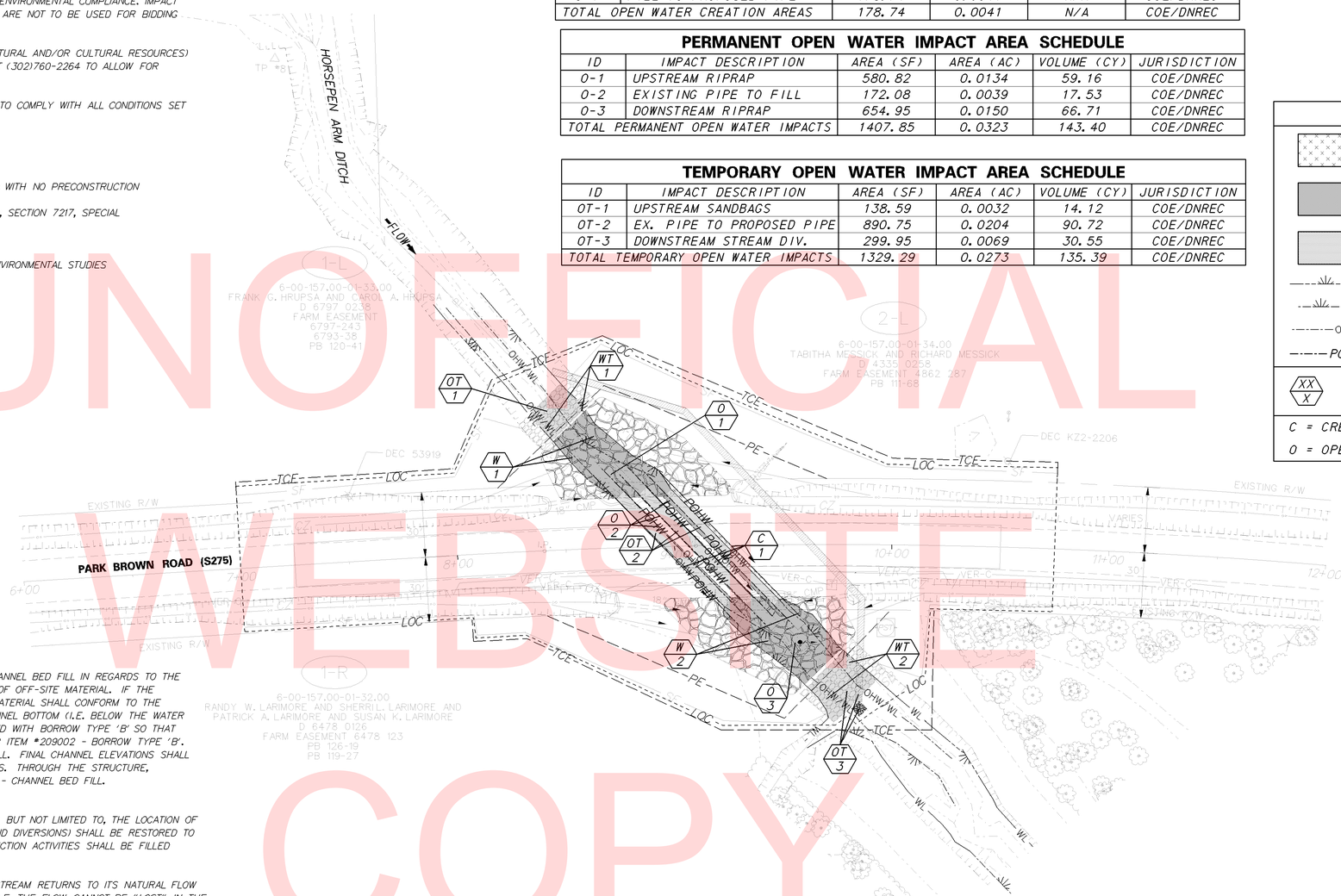
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
C-1	FILL TO PROPOSED PIPE	178.74	0.0041	N/A	COE/DNREC
TOTAL OPEN WATER CREATION AREAS		178.74	0.0041	N/A	COE/DNREC

PERMANENT OPEN WATER IMPACT AREA SCHEDULE

ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
O-1	UPSTREAM RIPRAP	580.82	0.0134	59.16	COE/DNREC
O-2	EXISTING PIPE TO FILL	172.08	0.0039	17.53	COE/DNREC
O-3	DOWNSTREAM RIPRAP	654.95	0.0150	66.71	COE/DNREC
TOTAL PERMANENT OPEN WATER IMPACTS		1407.85	0.0323	143.40	COE/DNREC

TEMPORARY OPEN WATER IMPACT AREA SCHEDULE

ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
OT-1	UPSTREAM SANDBAGS	138.59	0.0032	14.12	COE/DNREC
OT-2	EX. PIPE TO PROPOSED PIPE	890.75	0.0204	90.72	COE/DNREC
OT-3	DOWNSTREAM STREAM DIV.	299.95	0.0069	30.55	COE/DNREC
TOTAL TEMPORARY OPEN WATER IMPACTS		1329.29	0.0273	135.39	COE/DNREC



LEGEND

- CREATION AREA
- PERMANENT IMPACT AREA
- TEMPORARY IMPACT AREA
- WL – WETLAND BOUNDARY
- OHW/WL – ORD. HIGH WATER / WETLAND
- OHW – ORDINARY HIGH WATER
- POHW – PROPOSED ORDINARY HIGH WATER
- XX / X – IMPACT AREA TYPE ID. (SEE BELOW) / IMPACT AREA ID. AND/OR NUMBER

C = CREATION AREA T = TEMPORARY IMPACT
O = OPEN WATER IMPACT W = WETLAND IMPACT

PERMANENT WETLAND IMPACT AREA SCHEDULE

ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
W-1	UPSTREAM RIPRAP	416.82	0.0095	N/A	COE
W-2	DOWNSTREAM RIPRAP	484.94	0.0112	N/A	COE
TOTAL PERMANENT WETLAND IMPACT AREAS		901.76	0.0207	N/A	COE

TEMPORARY WETLAND IMPACT AREA SCHEDULE

ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
WT-1	UPSTREAM STREAM DIVERSION	191.53	0.0044	N/A	COE
WT-2	DOWNSTREAM STREAM DIV.	251.17	0.0057	N/A	COE
TOTAL TEMPORARY WETLAND IMPACT AREAS		442.70	0.0101	N/A	COE

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

BR 2-275A ON PARK BROWN ROAD OVER HORSEPEN ARM DITCH

CONTRACT	BRIDGE NO.	2-275A
T201507201	DESIGNED BY: SM	
COUNTY		
KENT	CHECKED BY: CAS	

ENVIRONMENTAL COMPLIANCE PLAN

SHEET NO. 9
TOTAL SHTS. 13

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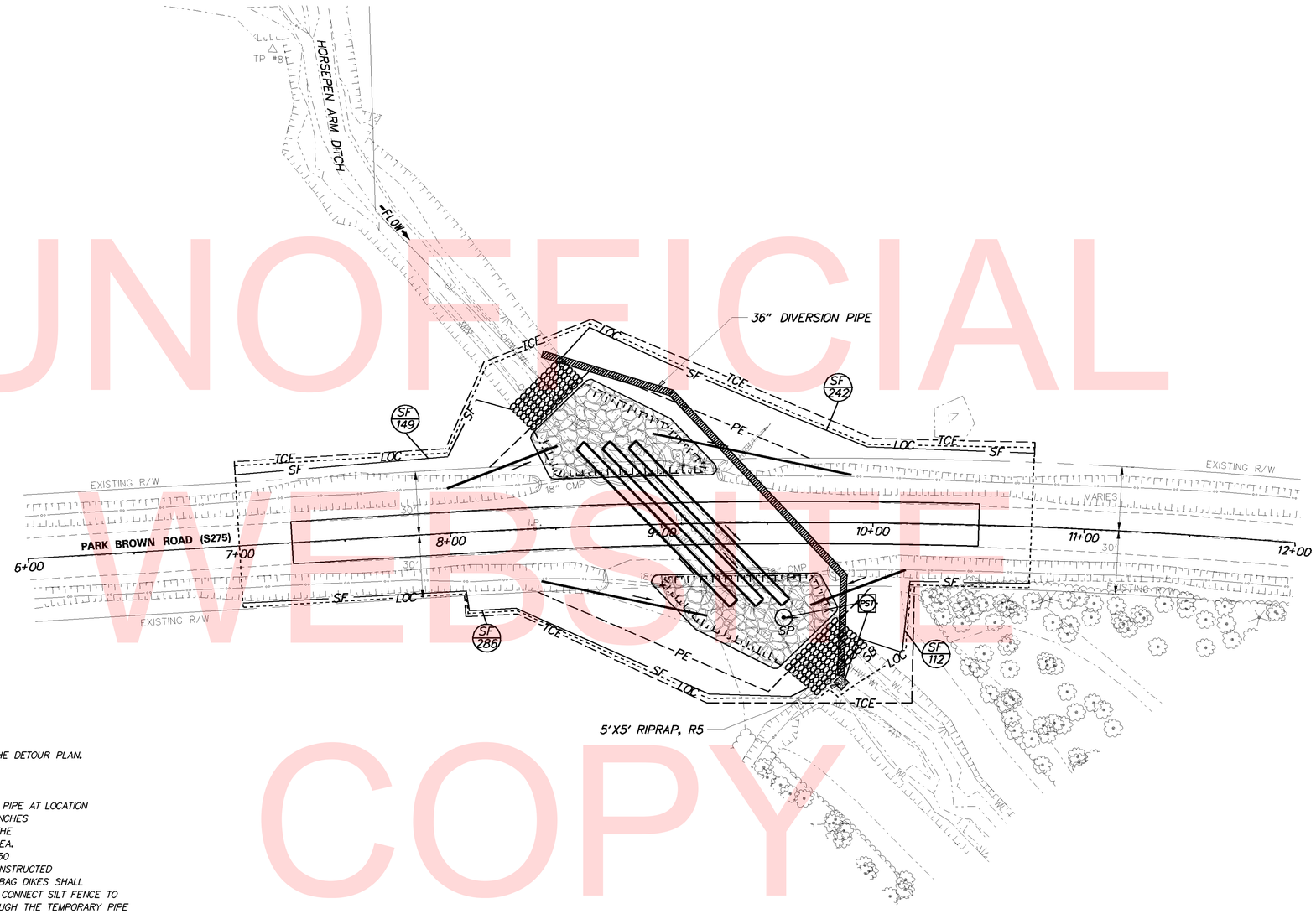

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CONSTRUCTION SEQUENCE

1. INSTALL ALL M.O.T. DEVICES TO CLOSE PARK BROWN ROAD IN ACCORDANCE WITH THE DETOUR PLAN. MESSAGE BOARDS TO BE PLACED 10 DAYS PRIOR TO CONSTRUCTION.
2. INSTALL SILT FENCE EXCEPT AT CONNECTIONS TO SANDBAG DIKES
3. STABILIZE THE PROPOSED DISCHARGE AREA OF THE PIPE WITH A 5' X 5' AREA OF R-5 RIPRAP (INCIDENTAL TO ITEM 909005). INSTALL 36" TEMPORARY DIVERSION PIPE AT LOCATION SHOWN. PLACE THE UPSTREAM END OF THE PIPE TO MATCH OR 6 INCHES TO 12 INCHES ABOVE EXISTING STREAM BOTTOM USING PIPE WITH WATER TIGHT JOINTS. SECURE THE PIPE TO MINIMIZE MOVEMENT UNDER USE TO PREVENT LEAKAGE INTO THE WORK AREA. CONSTRUCT THE SANDBAG DIKES, AT THE LOCATIONS SHOWN, WITH TOP EL. OF 53.50 WITH A 1' X 8' WEIR OPENING UPSTREAM. UPSTREAM SANDBAG DIKES SHALL BE CONSTRUCTED BEFORE THE DOWNSTREAM SANDBAG DIKES. ELEVATION OF THE DOWNSTREAM SANDBAG DIKES SHALL NOT BE HIGHER THAN THE LOWEST ELEVATION OF THE UPSTREAM SANDBAG DIKES. CONNECT SILT FENCE TO SANDBAG DIKES TO COMPLETELY ENCLOSE THE WORK AREA. THE BASE FLOW THROUGH THE TEMPORARY PIPE SHALL BE 11 C.F.S.
4. INSTALL SUMP PIT AND PORTABLE SEDIMENT TANK. DEWATER WORK AREA IN ACCORDANCE WITH SECTION 902 OF DELDOT STANDARD SPECIFICATIONS. DISCHARGE CLEAN EFFLUENT FROM THE APPROVED SEDIMENT TRAPPING DEVICE AT THE STABILIZED OUTLET OF THE TEMPORARY DRAINAGE PIPE OR ON OTHER STABLE OUTLET AS APPROVED BY THE ENGINEER.
5. PERFORM ALL CONSTRUCTION ACTIVITY IN WORK AREA AS PER PLANS INCLUDING REMOVING EXISTING PIPES, PLACING PROPOSED 5' PIPES, AND PLACING RIPRAP. DO NOT INSTALL 18" DRAINAGE PIPES.
6. PLACE RIPRAP ALONG CHANNEL BOTTOM AND UP TO AN ELEVATION THAT IS ONE FOOT ABOVE THE ORDINARY HIGH WATER MARK.
7. RESTORE DISTURBED AREAS IN ACCORDANCE WITH THE ENVIRONMENTAL COMPLIANCE NOTE ON STREAM RESTORATION AND RIPRAP TREATMENT. REMOVE STREAM DIVERSION INCLUDING SUMP PIT, DIVERSION PIPE, PORTABLE SEDIMENT TANK AND SANDBAGS. INSTALL TURBIDITY CURTAINS IN THE SAME FOOTPRINT OF THE DOWNSTREAM SANDBAGS .
8. INSTALL 18" DRAINAGE PIPES AND COMPLETE PLACING RIPRAP AND RIPRAP TREATMENT.
9. REMOVE TURBIDITY CURTAIN.
10. COMPLETE ALL REMAINING WORK INCLUDING ROADWAY RECONSTRUCTION, AND GRADING.
11. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER VEGETATION HAS STABILIZED ALL DISTURBED AREAS IN ACCORDANCE WITH THESE PLANS AND AS DIRECTED BY THE ENGINEER.
12. REMOVE ALL MOT DEVICES AND REOPEN THE ROADWAY. REMOVAL OF MOT DEVICES MAY OCCUR PRIOR TO REMOVAL OF TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES.

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	BR 2-275A ON PARK BROWN ROAD OVER HORSEPEN ARM DITCH	CONTRACT T201507201	BRIDGE NO. 2-275A	CONSTRUCTION SEQUENCE, AND EROSION CONTROL PLAN	SHEET NO. 10
				COUNTY KENT	DESIGNED BY: SM		TOTAL SHTS. 13
					CHECKED BY: CAS		

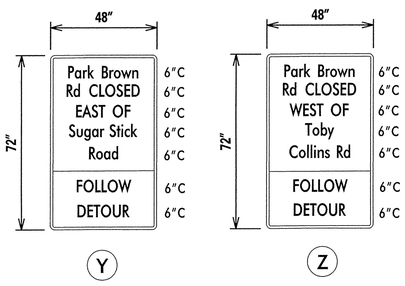
PORTABLE CHANGEABLE MESSAGE SIGNS

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

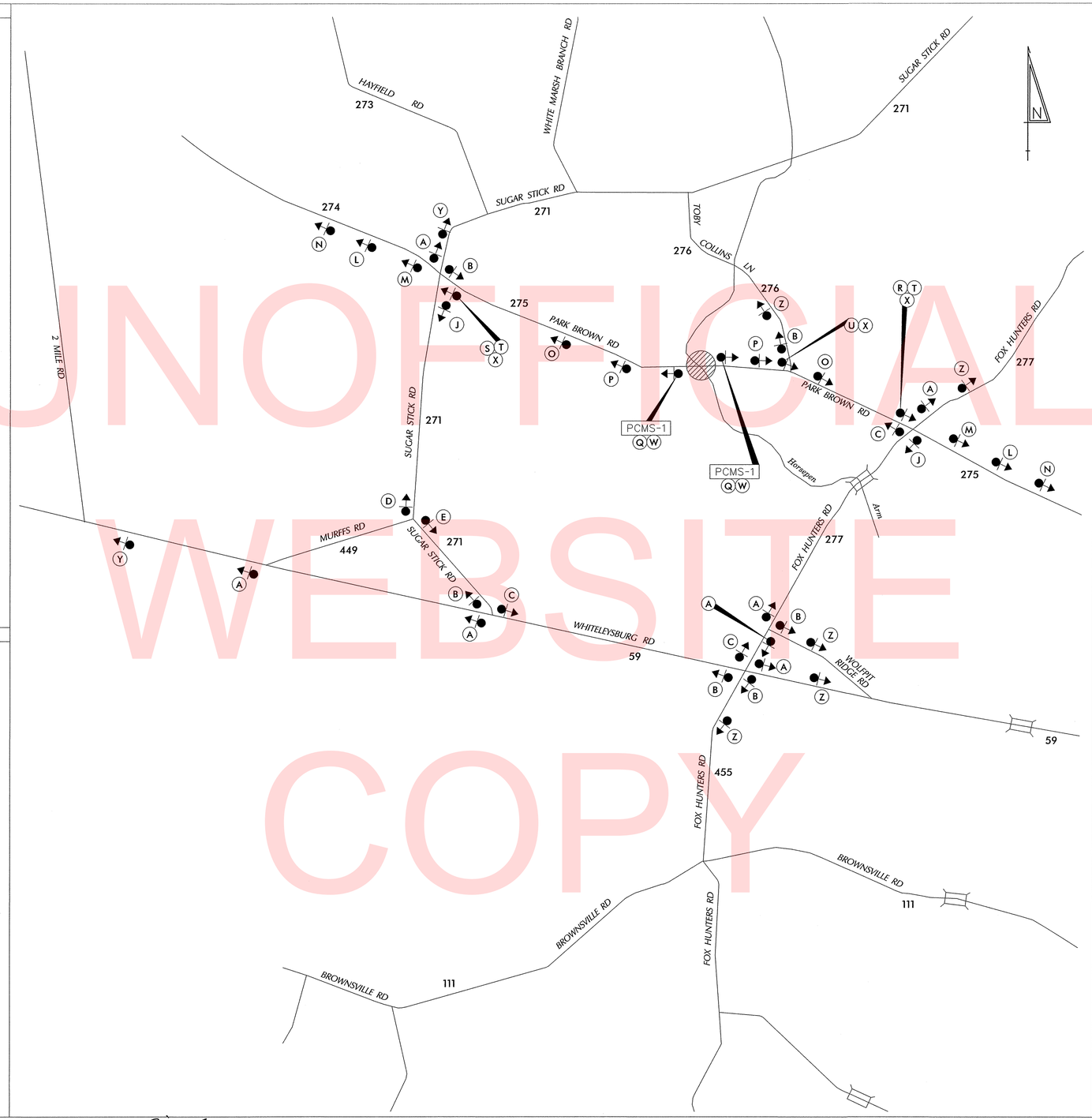
PCMS-1

PARK BROWN ROAD	TO CLOSE STARTING XX/XX/XX

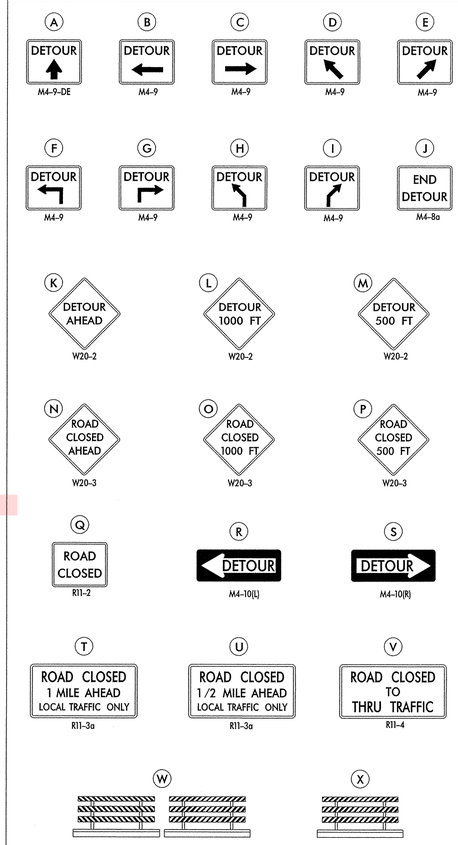
SPECIAL SIGNS



***D/G RETROREFLECTIVE FLUORESCENT ORANGE BACKGROUND; BLACK LEGEND**



LEGEND



GENERAL NOTES

1. ALL DETOUR SIGNING, INCLUDING TRAILBLAZERS, ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR IN COMPLIANCE WITH "THE **DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD.)**
2. THE CONTRACTOR SHALL COMPLY WITH GUIDELINES IN "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD PART 6) FOR BARRICADES AND SIGNS (AS PER LATEST REVISION.)
3. DESIGN OF ALL SIGNS SHALL BE IN ACCORDANCE WITH THE FHWA STANDARD HIGHWAY SIGNS BOOK.
4. SIZES OF ALL SIGNS SHALL BE IN ACCORDANCE WITH "THE DELAWARE **MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD.) SIZE OF** SIGN SHALL BE BASED ON TYPE OF ROADWAY ON WHICH THE SIGN IS INSTALLED.
5. SIGNS NO LONGER IN USE SHALL BE COMPLETELY COVERED WITH NO RETROREFLECTIVE MATERIAL SHOWING, OR SHALL BE REMOVED, AS DIRECTED BY THE ENGINEER.
6. 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" (DE MUTCD) WILL PREVAIL.
7. SIGNS "N" THROUGH "Q" AND "T" AND "V", THE WORD "ROAD" SHOULD BE CHANGED TO "RAMP", "RR XING", OR "BRIDGE" WHERE APPLICABLE.
8. WARNING SIGNS AND DETOUR TRAILBLAZERS SHALL BE MOUNTED ON BREAKAWAY POSTS AND HAVE RETROREFLECTIVE FLUORESCENT ORANGE SHEETING.
9. "W" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF THE ROADWAY.
10. BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

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RECOMMENDED _____ DATE:	RECOMMENDED DATE: 5-1-15	RECOMMENDED DATE: 5/1/15	APPROVED CHIEF SAFETY OFFICER DATE: 5-1-15	APPROVED TRAFFIC ENGINEER DATE: 5/1/15

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUM / REVISIONS

NOT TO SCALE

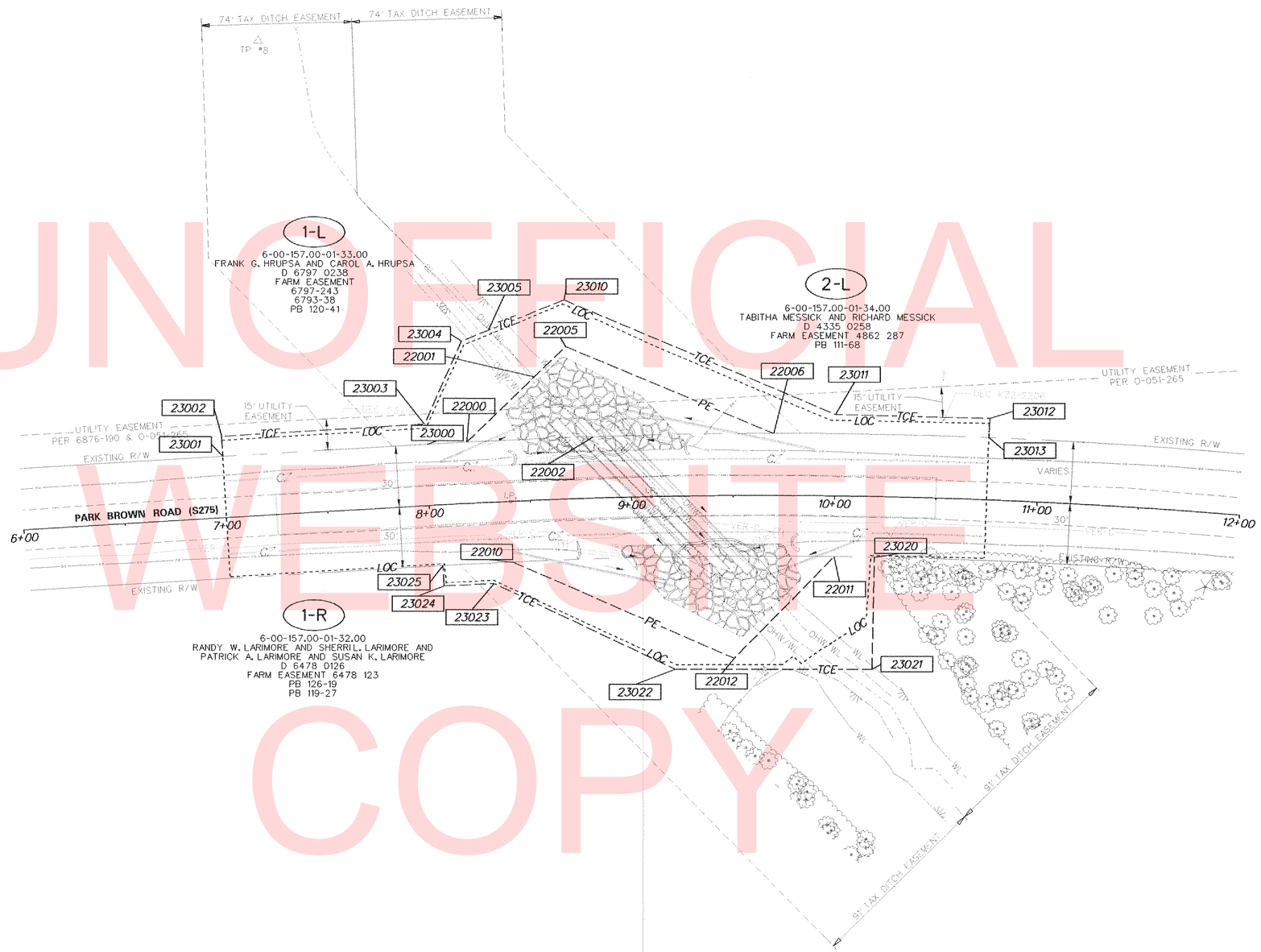
BR 2-275A ON PARK BROWN RD (K275) OVER HORSEPEN ARM DITCH

CONTRACT	ROAD NO.	K275
T201507201	DESIGNED BY: MFR	
COUNTY		
KENT	CHECKED BY: ASW	

VEHICULAR DETOUR PLAN
PARK BROWN RD (K275)

SHEET NO. 11
TOTAL SHTS. 13

W:\MSV8\CELLS\PROJDEV\SB.CEL



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RECOMMENDED AS TO ENGINEERING NEED

MANAGER, TEAM SUPPORT	6-18-15 DATE
PROGRAM MANAGER, TEAM SUPPORT	6/18/15 DATE
TECHNICAL REVIEWER, TEAM SUPPORT	6/18/15 DATE

NOTE: THIS SHEET SHALL BE USED FOR RIGHT-OF-WAY ACQUISTITION PURPOSES ONLY.

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	BR 2-275A ON PARK BROWN ROAD OVER HORSEPEN ARM DITCH	CONTRACT T201507201 / COUNTY KENT	BRIDGE NO. 2-275A / DESIGNED BY: SM / CHECKED BY: CAS	RIGHT-OF-WAY PLAN SHEET 1 OF 2	SHEET NO. 12 / TOTAL SHTS. 13

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)
6-00-157.00-01-33.00	(1-L) FRANK G. HRUPSA AND CAROL A. HRUPSA	P/E	D 6797 0238	44.600

ALIGNMENT NUMBER & DESCRIPTION: 5000 - CONSTRUCTION BASELINE

PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
22000	5000	8+20.00	-30.00	346123.0968	587308.6257	N 44°01′33.51″ E	46.42				
22001	5000	8+54.32	-60.64	346156.4758	587340.8887	S 46°26′54.20″ E	41.50				
22002	5000	8+81.86	-30.00	346127.8842	587370.9636			S 85°36′30.38″ W	62.52	62.52	-2830.00
22000	5000	8+20.00	-30.00	346123.0968	587308.6257						

FIGURE 61000 AREA = 955.9648 SQ. FT. (0.0219 ACRES)

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)
6-00-157.00-01-33.00	(1-L) FRANK G. HRUPSA AND CAROL A. HRUPSA	TCE	D 6797 0238	44.600

ALIGNMENT NUMBER & DESCRIPTION: 5000 - CONSTRUCTION BASELINE

PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
22001	5000	8+54.32	-60.64	346156.4758	587340.8887	S 44°01′33.51″ W	46.42				
22000	5000	8+20.00	-30.00	346123.0968	587308.6257			S 84°46′36.23″ W	19.64	19.64	2830.00
23000	5000	8+00.57	-30.00	346121.3090	587289.0691	S 84°34′37.52″ W	100.60				
23001	5000	7+00.00	-30.09	346111.8019	587188.9217	N 5°28′29.48″ W	9.91				
23002	5000	7+00.00	-40.00	346121.6667	587187.9762	N 84°31′32.03″ E	100.03				
23003	5000	8+00.00	-40.00	346131.2096	587287.5486	N 21°49′30.17″ E	44.91				
23004	5000	8+20.00	-80.00	346172.9047	587304.2466	N 66°15′02.44″ E	14.45				
23005	5000	8+33.28	-84.67	346178.7227	587317.4694	S 46°28′14.47″ E	32.30				
22001	5000	8+54.32	-60.64	346156.4758	587340.8887						

FIGURE 61003 AREA = 2695.9284 SQ. FT. (0.0619 ACRES)

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)
6-00-157.00-01-34.00	(2-L) TABITHA MESSICK AND RICHARD MESSICK	P/E	D 4335 0258	34.100

ALIGNMENT NUMBER & DESCRIPTION: 5000 - CONSTRUCTION BASELINE

PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
22002	5000	8+81.86	-30.00	346127.8842	587370.9636	N 46°26′54.20″ W	41.50				
22001	5000	8+54.32	-60.64	346156.4758	587340.8887	N 44°02′11.57″ E	21.54				
22005	5000	8+70.00	-75.00	346171.9634	587355.8640	S 69°20′18.67″ E	111.21				
22006	5000	9+70.00	-30.40	346132.7239	587459.9200			S 86°53′09.32″ W	89.09	89.09	-2554.78
22002	5000	8+81.86	-30.00	346127.8842	587370.9636						

FIGURE 61001 AREA = 2421.0118 SQ. FT. (0.0556 ACRES)

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)
6-00-157.00-01-34.00	(2-L) TABITHA MESSICK AND RICHARD MESSICK	TCE	D 4335 0258	34.100

ALIGNMENT NUMBER & DESCRIPTION: 5000 - CONSTRUCTION BASELINE

PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
22006	5000	9+70.00	-30.40	346132.7239	587459.9200	N 69°20′18.67″ W	111.21				
22005	5000	8+70.00	-75.00	346171.9634	587355.8640	S 44°02′11.57″ W	21.54				
22001	5000	8+54.32	-60.64	346156.4758	587340.8887	N 46°28′14.47″ W	32.30				
23005	5000	8+33.28	-84.67	346178.7227	587317.4694	N 66°15′14.76″ E	40.19				
23010	5000	8+70.00	-98.00	346194.9074	587354.2590	S 69°08′44.05″ E	145.27				
23011	5000	10+00.00	-40.00	346143.1934	587490.0083	N 89°25′34.25″ E	76.07				
23012	5000	10+75.00	-40.00	346143.9552	587566.0736	S 0°11′36.72″ W	9.52				
23013	5000	10+75.00	-30.48	346134.4353	587566.0415			S 89°04′33.81″ W	106.14	106.14	-2554.78
22006	5000	9+70.00	-30.40	346132.7239	587459.9200						

FIGURE 61004 AREA = 4286.6459 SQ. FT. (0.0984 ACRES)

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)
6-00-157.00-01-32.00	(1-R) RANDY W. LARIMORE AND SUSAN K. LARIMORE AND	P/E	D 6478 0126	118.600

ALIGNMENT NUMBER & DESCRIPTION: 5000 - CONSTRUCTION BASELINE

PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
22010	5000	8+40.00	30.00	346064.9898	587333.5963			N 87°01′18.49″ E	158.26	158.29	2770.00
22011	5000	10+00.00	30.00	346073.2126	587491.6467	S 42°34′47.02″ W	70.02				
22012	5000	9+50.00	80.00	346021.6560	587444.2716	N 68°37′03.52″ W	118.86				
22010	5000	8+40.00	30.00	346064.9898	587333.5963						

FIGURE 61002 AREA = 3998.7841 SQ. FT. (0.0918 ACRES)

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)
6-00-157.00-01-32.00	(1-R) RANDY W. LARIMORE AND SUSAN K. LARIMORE AND PATRICK LARIMORE AND SHERRI LARIMORE	TCE	D 6478 0126	118.600

ALIGNMENT NUMBER & DESCRIPTION: 5000 - CONSTRUCTION BASELINE

PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
22010	5000	8+40.00	30.00	346064.9898	587333.5963	S 68°37′03.52″ E	118.86				
22012	5000	9+50.00	80.00	346021.6560	587444.2716	N 42°34′47.02″ E	70.02				
22011	5000	10+00.00	30.00	346073.2126	587491.6467			N 88°51′48.43″ E	19.79	19.79	2770.00
23020	5000	10+20.00	30.00	346073.6050	587511.4285	S 0°55′54.91″ E	55.00				
23021	5000	10+20.00	85.00	346018.6123	587512.3230	S 88°02′41.79″ W	96.96				
23022	5000	9+20.00	85.00	346015.3045	587415.4203	N 66°48′54.41″ W	98.82				
23023	5000	8+30.00	40.00	346054.2116	587324.5772	S 84°55′27.73″ W	24.64				
23024	5000	8+05.00	40.00	346052.0314	587300.0310	N 5°19′53.10″ W	10.00				
23025	5000	8+05.00	30.00	346061.9881	587299.1019			N 85°01′36.06″ E	34.62	34.63	2770.00
22010	5000	8+40.00	30.00	346064.9898	587333.5963						

FIGURE 61005 AREA = 4569.1345 SQ. FT. (0.1049 ACRES)

COUNTY ASSESSMENT PARCEL NUMBER	PLAN SHEET NUMBER	OWNERSHIP OF RECORD	TITLE SOURCE	PROPERTY AREA BEFORE ACQUISITION (ACRE) D=DEED C=CALCULATED A=ASSESMENT	ACQUISITION CODE FEE, R/W, P/E, TCE	AREA TO BE ACQUIRED: ACQUISITION (SQ. FEET /ACRES)	AREA TO BE ACQUIRED: AREA OCCUPIED BY EXISTING RIGHT OF WAY (SQ. FEET /ACRES)	AREA TO BE ACQUIRED: EASEMENT: PERMANENT (SQ. FEET /ACRES)	AREA TO BE ACQUIRED: EASEMENT: TEMPORARY (SQ. FEET /ACRES)	PROPERTY AREA REMAINING (SQ. FEET /ACRES)	DEED RECORD OF ACQUISITION	REMARKS
6-00-157.00-01-33.00	11	(1-L) FRANK G. HRUPSA AND CAROL A. HRUPSA	D 6797 0238	A - 44.60	P/E			955.9648 / 0.02				PARCEL WITHIN 100 YEAR FLOODPLAIN ZONE
					TCE				2695.9284 / 0.06	1942776.00 / 44.60		2666.70 SF/0.0612 ACRES OCCUPIED BY UTILITY EASEMENT
												WITHIN LOC
6-00-157.00-01-34.00	11	(2-L) TABITHA MESSICK AND RICHARD MESSICK	D 4335 0258	A - 34.10	P/E			2421.0118 / 0.06				PARCEL WITHIN 100 YEAR FLOODPLAIN ZONE
					TCE				4286.6459 / 0.10	1485396.00 / 34.10		3974.70 SF/0.0912 ACRES OCCUPIED BY UTILITY EASEMENT
												WITHIN LOC
6-00-157.00-01-32.00	11	(1-R) RANDY W. LARIMORE AND SUSAN K. LARIMORE AND PATRICK LARIMORE AND	D 6478 0126	A - 118.60	P/E			3998.7841 / 0.09				PARCEL WITHIN 100 YEAR FLOODPLAIN ZONE
		SHERRI LARIMORE			TCE				4569.1345 / 0.10	5166216.00 / 118.60		

LEGEND

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

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

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

BR 2-275A ON PARK BROWN ROAD OVER HORSEPEN ARM DITCH

CONTRACT	BRIDGE NO.	BR 2-275A	SHEET NO.
T201507201	DESIGNED BY: S.M.		13
COUNTY			TOTAL SHTS.
KENT	CHECKED BY: C.A.S.		13

RIGHT-OF-WAY DATA AND TABULATION SHEET 2 OF 2