

EXISTING SYMBOLS

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

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

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

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

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

UTILITY	
	SOIL BORING LOCATION
	UTILITY TEST HOLE LOCATION
	CABLE TV DISTRIBUTION BOX
	ELECTRIC MANHOLE
	ELECTRIC METER
	ELECTRIC TRANSFORMER
	POLE MOUNTED LUMINAIRE
	GAS MANHOLE
	GAS METER
	GAS VALVE
	GAS PUMP - SERVICE STATION
	RAILROAD TRACKS
	SANITARY SEWER MANHOLE
	SANITARY SEWER VALVE
	SANITARY SEWER 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
	MANHOLE - UNDETERMINED OWNER

CONSTRUCTION	
	CONCRETE SAFETY BARRIER - PERMANENT
	BIOFILTRATION SWALE
	BOLLARD - STEEL POLE
	BOLLARD - WOOD POST
	BRICK PATTERNED SURFACE
	BUTT JOINT
	CONSTRUCTION BASELINE
	CONSTRUCTION SAFETY FENCE
	CURB, TYPE 1 & TYPE 3
	CURB, TYPE 2
	CURB & GUTTER, TYPE 1
	CURB & GUTTER, TYPE 2
	CURB & GUTTER, TYPE 3
	CURB & GUTTER, TYPE 4
	CLEAR ZONE
	DRAINAGE INLET
	DITCH
	FENCE - METAL
	FENCE - WOOD
	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
	HORIZONTAL CLEARANCE
	IMPACT ATTENUATOR
	JUNCTION BOX - DRAINAGE
	LIMIT OF CONSTRUCTION
	MAILBOX
	MANHOLE
	PAVEMENT PATCH
	PAVEMENT REMOVAL - TOPSOIL, SEED AND MULCH
	PIPE & DIRECTIONAL FLOW ARROW
	RIPRAP
	P.C.C. SIDEWALK - 4"
	P.C.C. SIDEWALK - 6" (USE 8" DEPTH FOR CHANNELIZATION ISLANDS.)
	UNDERDRAIN
	UNDERDRAIN OUTLET

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

PROPOSED SYMBOLS

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

LANDSCAPING	
	LANDSCAPE PLANTINGS
	SHRUBBERY
	CONIFEROUS TREE
	DECIDUOUS TREE

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

PAVEMENT SECTION(S)	
	2" WMA, SUPERPAVE, TYPE C, PG 64-22, 160 GY. 6" GRADED AGGREGATE BASE COURSE, TYPE B
	2" WMA, SUPERPAVE, TYPE C, PG 64-22, 160 GY. 3" WMA, SUPERPAVE, TYPE B, PG 64-22, 160 GY. 10" GRADED AGGREGATE BASE COURSE, TYPE B
	N/A

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

LAST REVISED: 01/30/2012
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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.
- 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 PRIOR TO THE EXECUTION OF THE CONTRACT. 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 PRIOR TO THE EXECUTION OF THE CONTRACT. 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	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 PRIOR TO THE EXECUTION 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 AWARDED 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.

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

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

- 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.

- THE DISTURBED AREA FOR THIS PROJECT IS 0.7785 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.
- THE ENGINEER MAY REQUIRE THE CONTRACTOR TO EXCAVATE TEST PITS ALONG PROPOSED DRAINAGE RUNS, AT POINTS OF POSSIBLE UTILITY CONFLICTS, TO DETERMINE IF A CONFLICT EXISTS. ANY CONFLICTS SHALL BE COORDINATED BY THE CONTRACTOR, WITH THE ENGINEER AND THE UTILITY COMPANY INVOLVED. THE ENGINEER SHALL ULTIMATELY DETERMINE THE SOLUTION TO THE UTILITY CONFLICT. TEST HOLES SHALL BE MEASURED AND PAID FOR IN ACCORDANCE WITH ITEM 208000 - EXCAVATION AND BACKFILL FOR PIPE TRENCHES, BUT ONLY TO THE ACTUAL DEPTH EXCAVATED.
- ITEMS TO BE REMOVED UNDER ITEM 211000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
 - EXISTING GUARDRAIL INCLUDING CONCRETE POST BASES AT BRIDGE.
 - SACK CONCRETE RIPRAP AND CONCRETE APRON.
 - 6'-3" X 9'-4" CORRUGATED METAL PIPE ARCHES (2).
 - CONCRETE PAVEMENT INSIDE PIPE ARCHES.
 - DRAINAGE INLET AND DRAINAGE PIPES SHOWN TO BE REMOVED BY CONTRACTOR.
 - REMOVAL/RELOCATION OF EXISTING SIGNS WITHIN THE PROJECT LIMITS.
- 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':
 - CRUSHED STONE (PER STANDARD SPECIFICATION B21)
 - CRUSHED CONCRETE (PER STANDARD SPECIFICATION B21)
 - 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:

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

- 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.
- 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.
- 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'.
- ALL COSTS TO UTILIZE MILLINGS IN RECYCLED HOT-MIX WILL BE INCIDENTAL TO THE UNIT PRICE BID FOR THE HOT-MIX ITEM USING THE RECYCLED MATERIAL.
- SPECIAL PROVISION 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

- THE DEPARTMENT AND THE CONTRACTOR SHALL INSPECT ALL EXISTING PIPES AND DRAINAGE STRUCTURES TO BE USED IN THE FINAL DRAINAGE SYSTEM AND AGREE ON THE CONDITION PRIOR TO THE START OF CONSTRUCTION. EXISTING PIPES AND DRAINAGE STRUCTURES DAMAGED DUE TO CONTRACTOR OPERATIONS SHALL BE REPAIRED OR REPLACED IN-KIND AT THE CONTRACTOR'S EXPENSE. THE DEPARTMENT WILL VIDEO INSPECT NEW PIPE RUNS TO CONFIRM CONDITION PRIOR TO ACCEPTANCE. PIPE CLEANING PRIOR TO VIDEO INSPECTION AND MAINTENANCE OF TRAFFIC DURING THE VIDEO INSPECTION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND INCIDENTAL TO THE PIPE ITEM THAT IS BEING VIDEO INSPECTED.
- BAR REINFORCEMENT
REINFORCING STEEL SHALL CONFORM TO AASHTO M31 (ASTM A615), GRADE 60. ALL REINFORCING STEEL SHALL HAVE A CLEAR COVER OF 2" MINIMUM UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL REINFORCING STEEL SHALL BE PROTECTED WITH EPOXY COATED REINFORCING CONFORMING TO M284 (ASTM D3963).
- PORTLAND CEMENT CONCRETE
SPECIFIED COMPRESSIVE STRENGTH @ 28 DAYS:
- BARRIER-----4.5 KSI (CLASS A)
- PRECAST CONCRETE-----5.0 KSI
MIX REQUIREMENTS SHALL CONFORM TO SECTION B12 OF THE STANDARD SPECIFICATIONS. ALL EXPOSED EDGES SHALL BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED. SLIP FORMING OF THE BARRIERS WILL NOT BE ALLOWED.

SECTION 700

- ALL GEOTEXTILES SHALL BE KEYED UNDER ADJACENT SOIL OR RIPRAP A MINIMUM OF 6" IN LENGTH TO PREVENT FREE EDGES.
- 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 (STA. 1+00 AND STA. 6+00). ALL HOT-MIX SAW CUTTING SHALL BE FULL DEPTH, UNLESS OTHERWISE NOTED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
- CENTERLINE OF ROAD SHALL BE STRIPED TO MATCH EXISTING STRIPING ON THE ROAD. EDGE OF TRAFFIC LANE SHALL BE STRIPED WHITE. STRIPING SHALL EXTEND THE LENGTH OF THE PROJECT LIMITS. PAYMENT UNDER ITEM *748548.
- TEMPORARY TRAFFIC CONTROL SHALL BE MAINTAINED IN ACCORDANCE WITH THE PLANS, THE MUTCD, AND THE REQUIREMENTS OF ITEM 763643 - MAINTENANCE OF TRAFFIC, ALL INCLUSIVE. CHANGEABLE MESSAGE BOARDS AND FLAGGERS SHALL BE PAID FOR UNDER THEIR RESPECTIVE ITEMS.

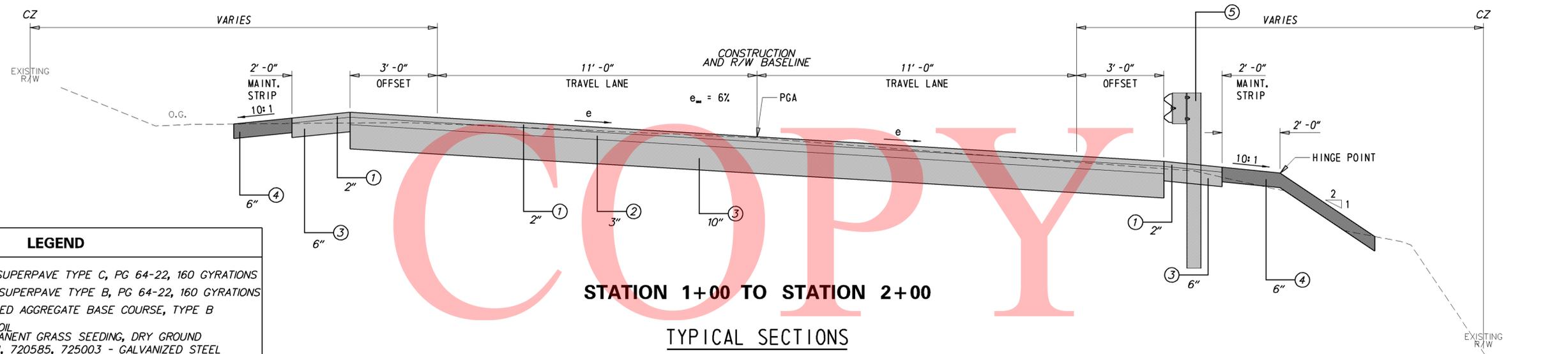
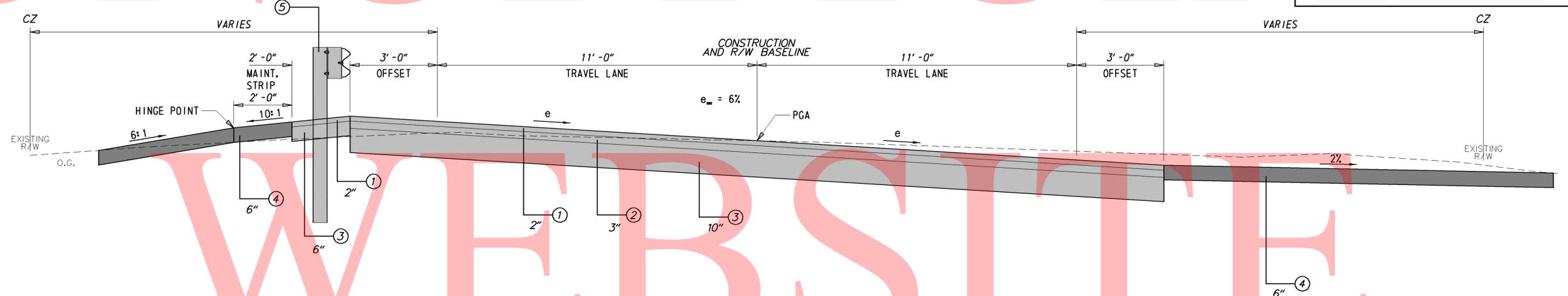
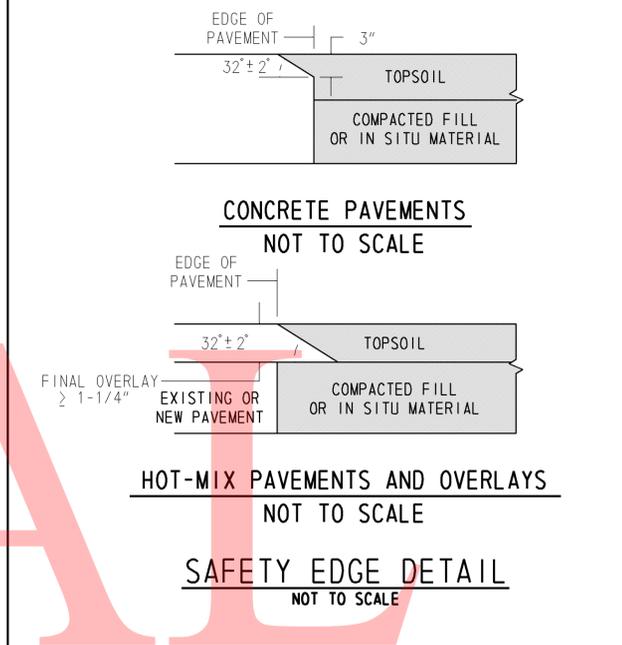
MISCELLANEOUS

- ENVIRONMENTAL COMPLIANCE
SEE ENVIRONMENTAL COMPLIANCE PLAN FOR FURTHER RESTRICTIONS/GUIDANCE ASSOCIATED WITH THIS PROJECT.
- UTILITIES
SEE THE UTILITIES STATEMENT FOR UTILITIES INFORMATION.
- DESIGN CRITERIA
2010 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 5th EDITION.
- LOADING
AASHTO HL-93 OR DELAWARE LEGAL LOAD FOR LIVE LOAD, 25 psf FOR FUTURE WEARING SURFACE.
- LOAD RATINGS FOR THE BRIDGE 1-274, HAVE BEEN PERFORMED BY DELDOT'S BRIDGE MANAGEMENT SECTION IN ACCORDANCE WITH THE 2011 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND THE MANUAL FOR BRIDGE EVALUATION. ALL CURRENT AASHTO DESIGN LOADS AND DELAWARE LEGAL LOADS HAVE BEEN CONFIRMED TO HAVE A MINIMUM LOAD RATING FACTOR OF 1.0 IN ACCORDANCE WITH DELDOT'S BRIDGE DESIGN MANUAL.
- HYDRAULIC DATA
DRAINAGE AREA: 1.78 sq mi
DESIGN FREQUENCY: 50-yr FLOOD
DESIGN DISCHARGE: 1277 cfs
DESIGN FLOOD ELEVATION: 178.30'
- SCOUR ANALYSIS
THE PROPOSED STRUCTURE HAS BEEN ANALYSED FOR THE EFFECTS OF SCOUR IN ACCORDANCE WITH HEC-18 - 'EVALUATING SCOUR AT BRIDGES' AND HEC-14 - 'HYDRAULIC DESIGN OF ENERGY DISSIPATORS FOR CULVERTS AND CHANNELS.' SCOUR COUNTERMEASURES HAVE BEEN DESIGNED FOR THE WORST CASE OF THE OVERTOPPING FLOOD OR THE 500-YR FLOOD EVENT.

DESIGN EVENT: 500-YR FLOOD DESIGN VELOCITY: 11.31 ft/s
DESIGN DISCHARGE: 2246 cfs TAILWATER DEPTH: 8 ft

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 <p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	ADDENDUMS / REVISIONS	SCALE AS NOTED	<p>BR 1-274 ON N312 WEDGEWOOD ROAD OVER E BRANCH CHRISTINA RIVER</p>	CONTRACT T201207102	BRIDGE NO. 1-274	<p>NOTES</p>	SHEET NO. 3	
					COUNTY NEW CASTLE		DESIGNED BY: JAT	TOTAL SHTS. 20
					CHECKED BY: JNH			

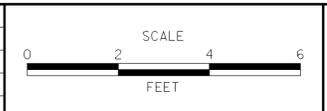


LEGEND

- ① ITEM 401801 - WMA, SUPERPAVE TYPE C, PG 64-22, 160 GYRATIONS
- ② ITEM 401810 - WMA, SUPERPAVE TYPE B, PG 64-22, 160 GYRATIONS
- ③ ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- ④ ITEM 732004 - TOPSOIL
ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
- ⑤ ITEM 720050, 720051, 720585, 725003 - GALVANIZED STEEL BEAM GUARDRAIL

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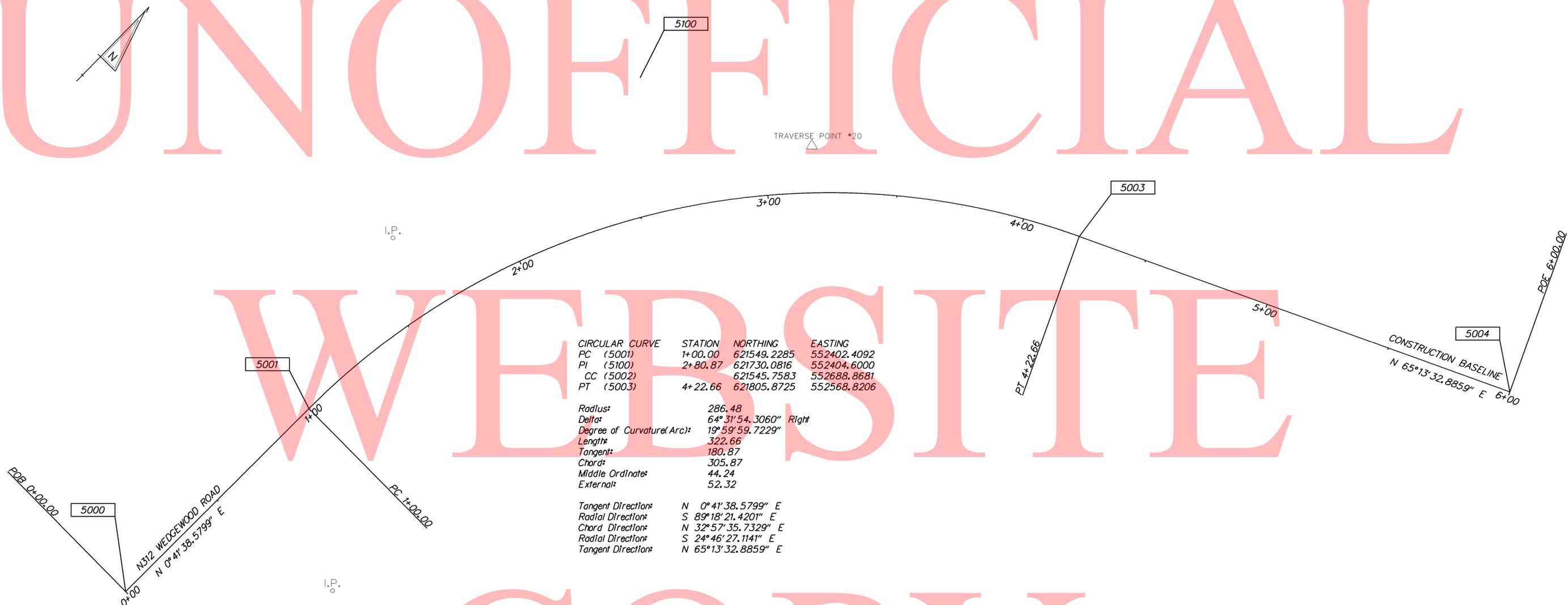
ADDENDUMS / REVISIONS	



CONTRACT T201207102	BRIDGE NO. 1-274
COUNTY NEW CASTLE	DESIGNED BY: JAT
	CHECKED BY: JNH

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 *WED1, ELEVATION 158.1394
 GPS *WEDA, ELEVATION 158.9793

UNOFFICIAL



CIRCULAR CURVE	STATION	NORTHING	EASTING
PC (5001)	1+00.00	621549.2285	552402.4092
PI (5100)	2+80.87	621730.0816	552404.6000
CC (5002)		621545.7583	552688.8681
PT (5003)	4+22.66	621805.8725	552568.8206

Radius:	286.48
Delta:	64° 31' 54.3060" Right
Degree of Curvature (Arc):	19° 59' 59.7229"
Length:	322.66
Tangent:	180.87
Chord:	305.87
Middle Ordinate:	44.24
External:	52.32

Tangent Direction:	N 0° 41' 38.5799" E
Radial Direction:	S 89° 18' 21.4201" E
Chord Direction:	N 32° 57' 35.7329" E
Radial Direction:	S 24° 46' 27.1141" E
Tangent Direction:	N 65° 13' 32.8859" E

CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
5000	0+00.00	0.00	621449.2358	552401.1978
5004	6+00.00	0.00	621880.1856	552729.8394

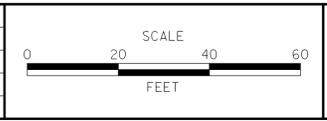
HORIZONTAL / VERTICAL CONTROL DATA					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
1			619803.6784	552193.2066	158.98
2			619751.6936	551923.4893	158.14
3			620123.6350	551904.2774	176.17
4			620353.2461	551987.4429	186.43
5			620884.6918	552194.7559	169.39
6			621353.5677	552377.5742	177.77
7			620924.4040	552241.8646	169.22
8			620427.0907	552048.7202	180.80
9			620042.9705	552104.7666	159.97
20	3+17.51	-18.14	621758.1149	552470.4661	179.28
21			621334.8420	552406.7775	173.84

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TRAVERSE POINT #21

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	



BR 1-274 ON N312 WEDGEWOOD ROAD OVER E BRANCH CHRISTINA RIVER

CONTRACT	BRIDGE NO.	1-274
T201207102	DESIGNED BY:	JAT
COUNTY	CHECKED BY:	JNH
NEW CASTLE		

HORIZONTAL AND VERTICAL CONTROL

SHEET NO.	5
TOTAL SHTS.	20

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
1	18" RCP	111	37.00	0.0110	173.40	173.00
2	12" RCP	111	32.00	0.0125	179.00	178.60
3	12" RCP	111	42.00	0.0125	178.60	178.00

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
1	4+82.00	11.00	34" x 24"	A	181.50	179.00

MANHOLE SCHEDULE						
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.	
1	4+82.00	-21.00	48" x 30"	180.6	178.60	

ENERGY DISSIPATOR SCHEDULE								
NO.	STATION	OFFSET	RIPRAP SIZE	D (FT)	T1 (FT)	L (FT)	W1 (FT)	W2 (FT)
1	4+34.11	-24.24	R-4	1.00	1.00	3.00	1.50	3.50

2-L
09-007.10-078
CHAMBERLAIN, SAMUEL C. & BARBARA J.
597-170

3-L
09-005.00-054
WEDGE HILLS CIVIC ASSOCIATION INC.
H61 454

1-L
09-007.10-079
NEEL V. NEELKANTAN LIVING TRUST
20050620-0059771

1-R
09-007.00-018
BURTON, RANDALL K. & TINA S.
2727-74

09-007.10-001
SCHWEIZER, ALAN E. JR & BROWN, JAMES J.
20090105-0000275

09-007.10-017
WALTON, GEORGE T. & HARY S.
P86-795

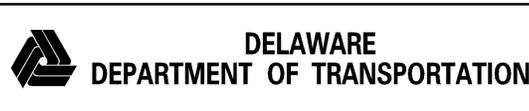
09-007.10-018
BROWN, SCOTT RYAN & CHAN, CLARA SZE-YUE
20090529-0033598

REPAIR 2 DAMAGED SECTIONS OF
GUARDRAIL IN THIS AREA (25 L.F.),
PAYMENT UNDER ITEM 720050 -
GALVANIZED STEEL BEAM GUARDRAIL,
TYPE 1-31

RIGHT-OF-WAY MONUMENT SCHEDULE						
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING	
1	CAPPED REBAR	3+36.19	-25.00	621776.9874	552499.4663	
2	CAPPED REBAR	4+07.32	-25.45	621821.5736	552543.1815	
3	CAPPED REBAR	2+00.49	53.99	621628.2822	552471.5208	
4	CAPPED REBAR	3+37.20	18.32	621745.4579	552509.8970	

GUARDRAIL SCHEDULE					
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH	
01	W-BEAM, TYPE 1-31 TO TYPE 1-27 TRANSITION SECTION	1+45.66	14.39	25.00	
02	GUARDRAIL TO BARRIER CONNECTION, APPR. TYPE 2-31	1+71.96	14.00	25.00	
03	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1-31	2+53.64	-16.00	50.00	
04	GUARDRAIL TO BARRIER CONNECTION, APPR. TYPE 2-31	2+97.90	-14.00	25.00	
05	GUARDRAIL TO BARRIER CONNECTION, APPR. TYPE 2-31	3+69.61	-14.00	25.00	
06	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	3+93.87	-14.00	37.50	
07	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 2-31	4+29.70	-14.00	50.00	
08	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1-31	4+79.70	-14.00	50.00	

NOTE: PAYMENT FOR GR/01 SHALL BE UNDER ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31



ADDENDUMS / REVISIONS



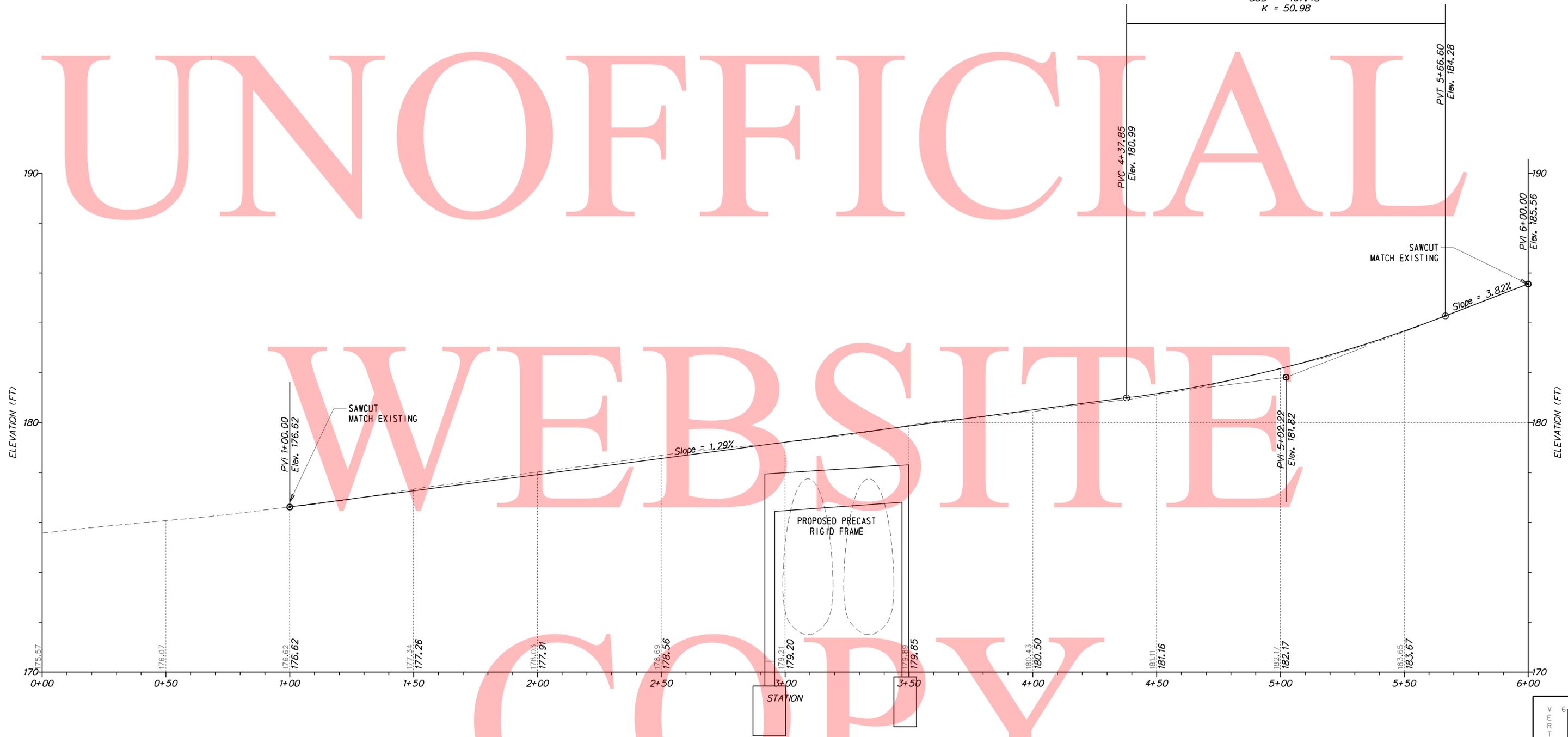
BR 1-274 ON N312
WEDGEWOOD ROAD OVER
E BRANCH CHRISTINA RIVER

CONTRACT T201207102	BRIDGE NO. 1-274
COUNTY NEW CASTLE	DESIGNED BY: JAT
	CHECKED BY: JNH

CONSTRUCTION PLAN		SHEET NO. 6
		TOTAL SHTS. 20

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Type of Curve = Symmetric Parabola
 Direction = Sag
 Length = 128.75'
 L1 = 64.38'
 L2 = 64.38'
 G1 = 1.29%
 G2 = 3.82%
 SSD = 467.48'
 K = 50.98



N312 - WEDGEWOOD ROAD

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ADDENDUMS / REVISIONS



**BR 1-274 ON N312
 WEDGEWOOD ROAD OVER
 E BRANCH CHRISTINA RIVER**

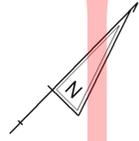
CONTRACT T201207102	BRIDGE NO. 1-274
COUNTY NEW CASTLE	DESIGNED BY: JAT
	CHECKED BY: EM

PROFILE



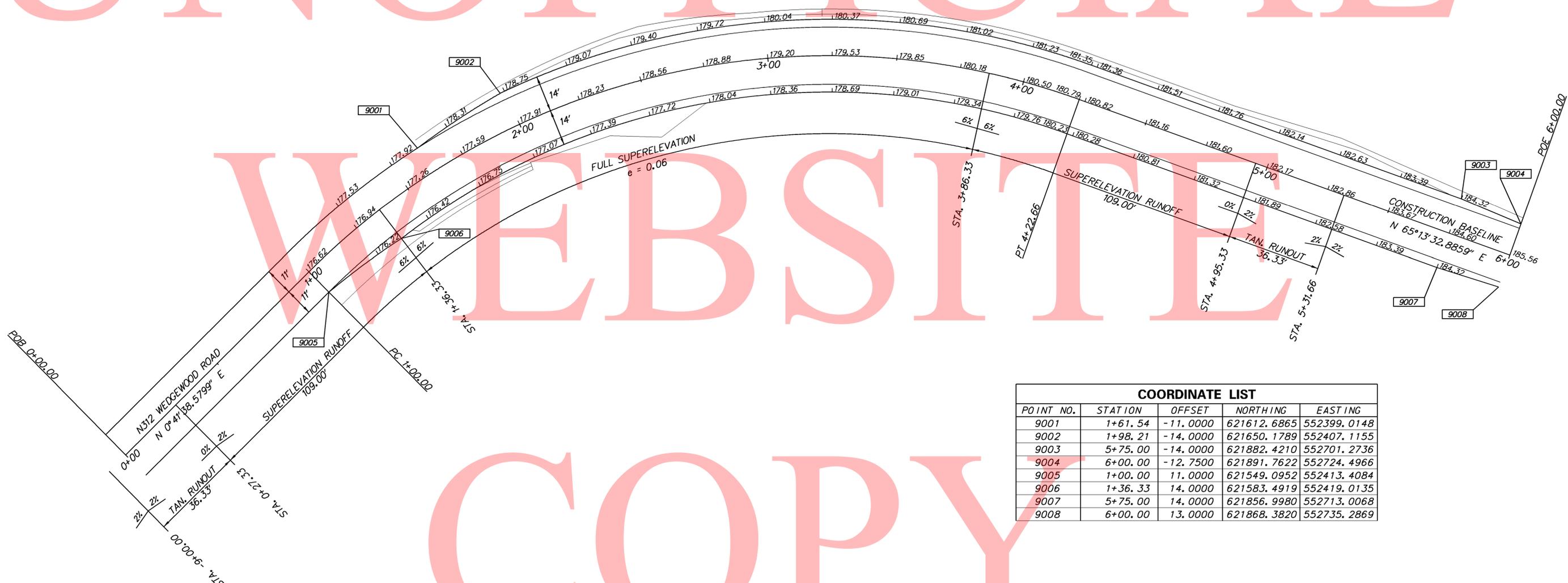
SHEET NO. 7
TOTAL SHTS. 20

UNOFFICIAL



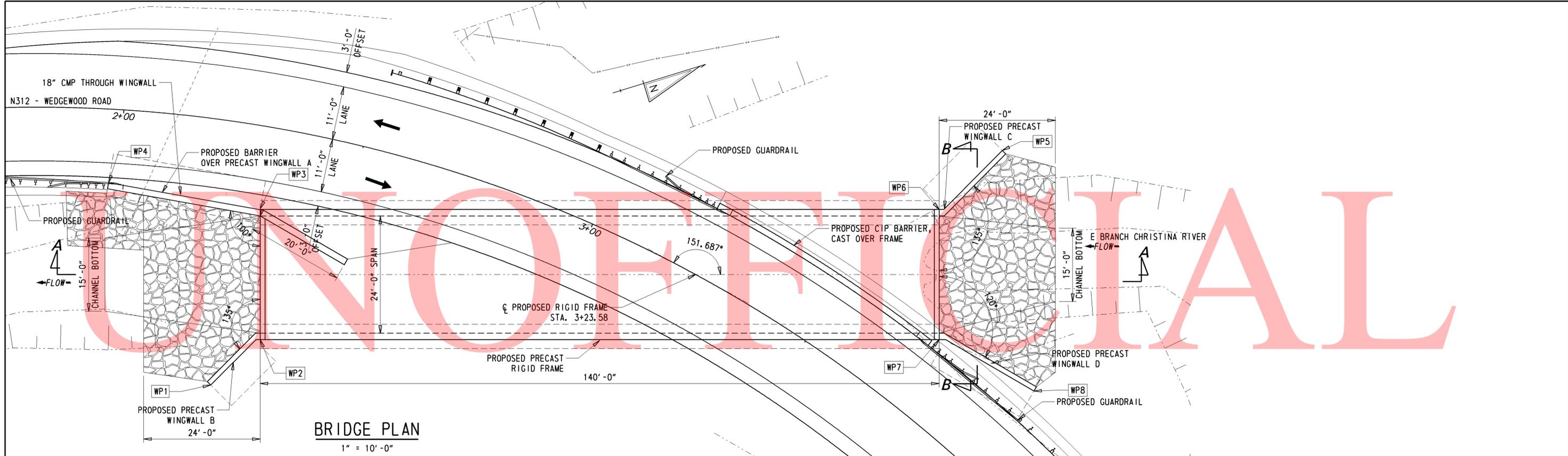
WEB SITE

COPY



COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
9001	1+61.54	-11.0000	621612.6865	552399.0148
9002	1+98.21	-14.0000	621650.1789	552407.1155
9003	5+75.00	-14.0000	621882.4210	552701.2736
9004	6+00.00	-12.7500	621891.7622	552724.4966
9005	1+00.00	11.0000	621549.0952	552413.4084
9006	1+36.33	14.0000	621583.4919	552419.0135
9007	5+75.00	14.0000	621856.9980	552713.0068
9008	6+00.00	13.0000	621868.3820	552735.2869

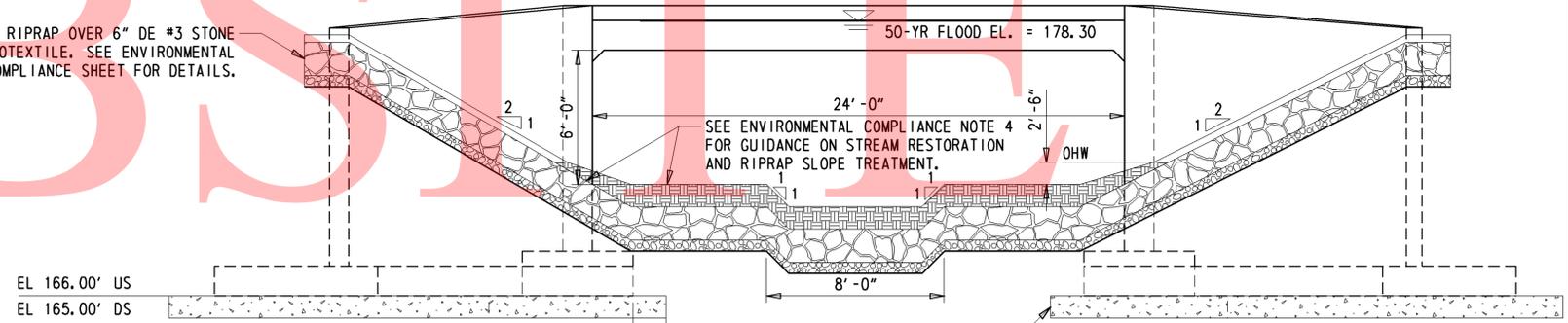
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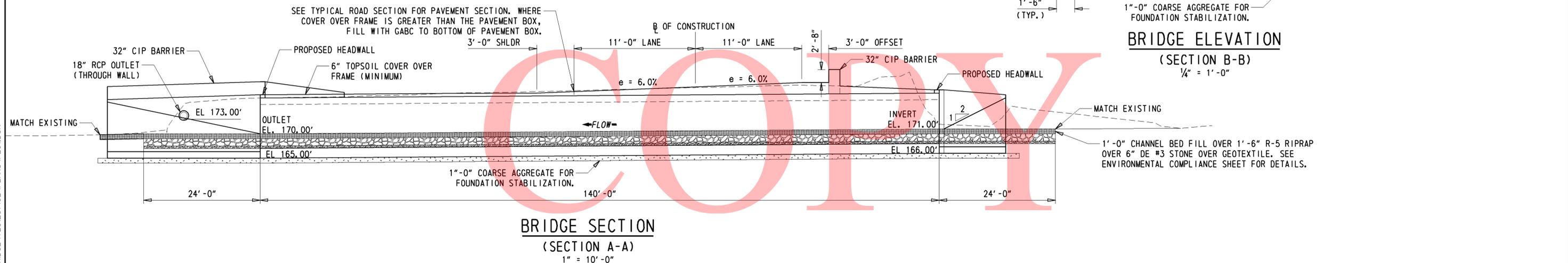
BRIDGE PLAN
1" = 10'-0"

WORKING POINTS				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
WP1	2+26.47	54.0868	621647.5865	552479.9720
WP2	2+36.64	43.1966	621660.0549	552474.1052
WP3	2+31.27	16.9653	621667.8952	552448.6168
WP4	1+97.66	15.0792	621639.5853	552434.2019
WP5	3+60.26	-55.1871	621817.7110	552482.0393
WP6	3+57.14	-37.7837	621801.7076	552489.7779
WP7	3+71.63	-16.3332	621793.8674	552515.2660
WP8	3+92.06	-20.8222	621809.4591	552531.0818

1'-6" R-5 RIPRAP OVER 6" DE #3 STONE OVER GEOTEXTILE. SEE ENVIRONMENTAL COMPLIANCE SHEET FOR DETAILS.



BRIDGE ELEVATION
(SECTION B-B)
1/4" = 1'-0"

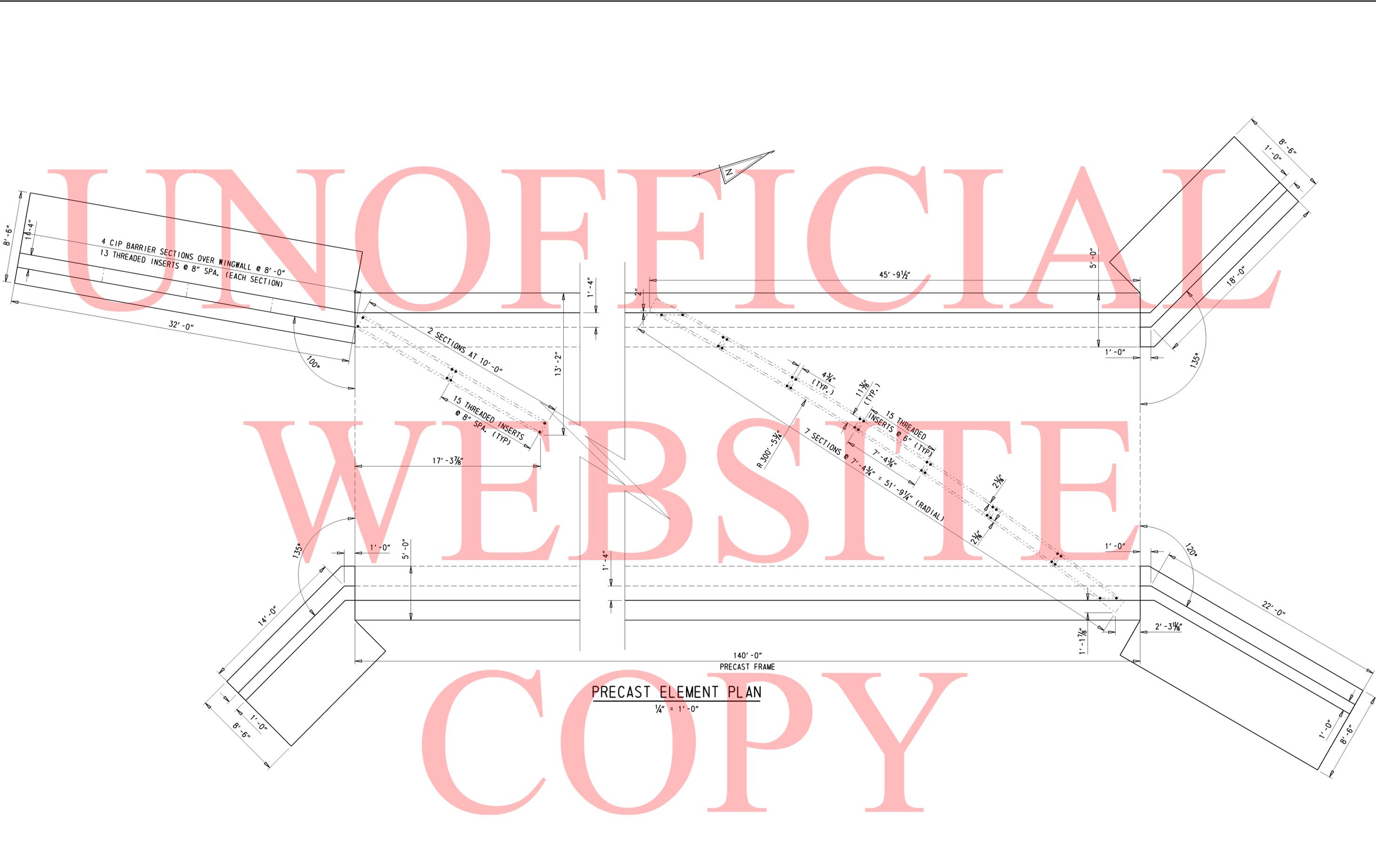


BRIDGE SECTION
(SECTION A-A)
1" = 10'-0"

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<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	ADDENDUMS / REVISIONS		<p>SCALE</p> <p>FEET</p>	<p>BR 1-274 ON N312 WEDGEWOOD ROAD OVER E BRANCH CHRISTINA RIVER</p>	CONTRACT	BRIDGE NO.	<p>1-274</p>	<p>BRIDGE PLAN, SECTION & ELEVATION</p>	SHEET NO.
	T201207102	DESIGNED BY: JAT			9				
	NEW CASTLE	CHECKED BY: JNH			TOTAL SHTS.				
								20	

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PRECAST ELEMENT PLAN

1/4" = 1'-0"

ADDENDUMS / REVISIONS	

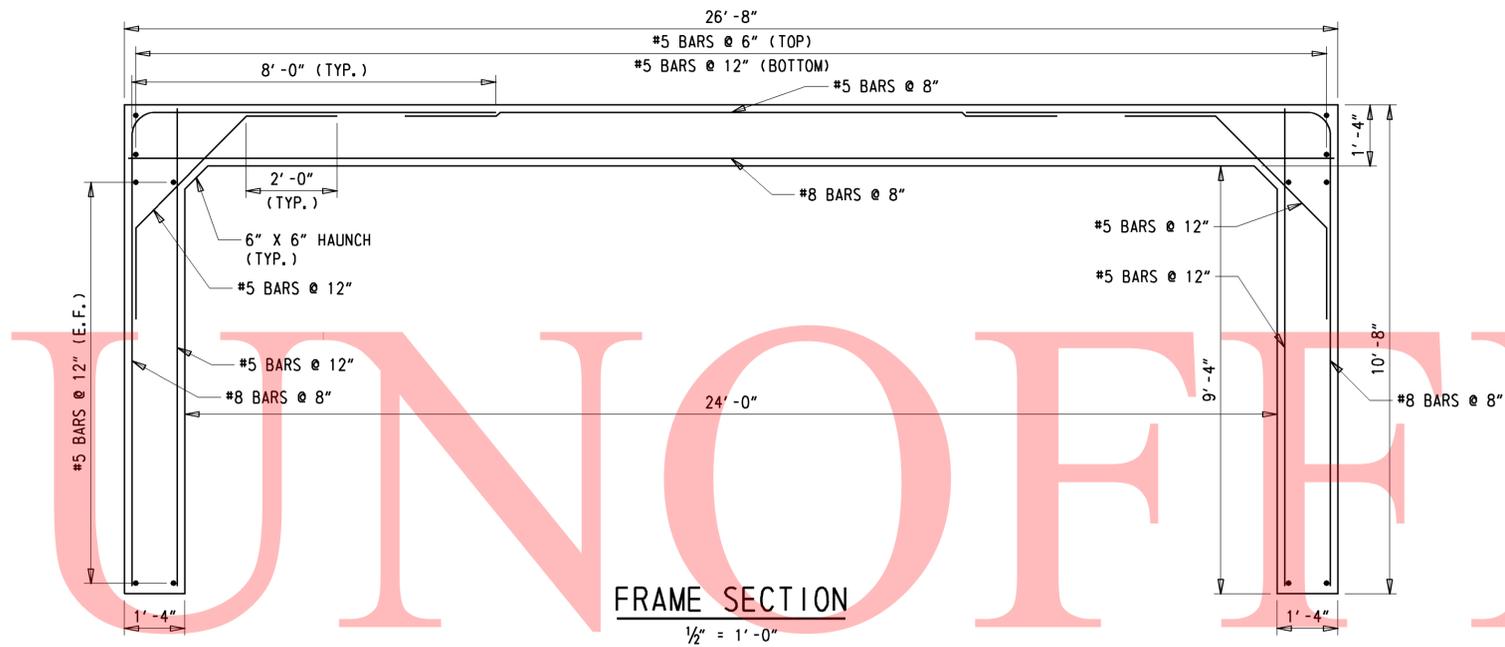
SCALE AS NOTED

BR 1-274 ON N312
WEDGEWOOD ROAD OVER
E BRANCH CHRISTINA RIVER

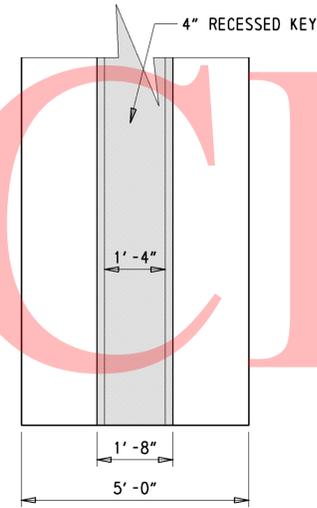
CONTRACT	BRIDGE NO.	1-274
T201207102	DESIGNED BY:	JAT
COUNTY	CHECKED BY:	EM
NEW CASTLE		

PRECAST ELEMENT LAYOUT

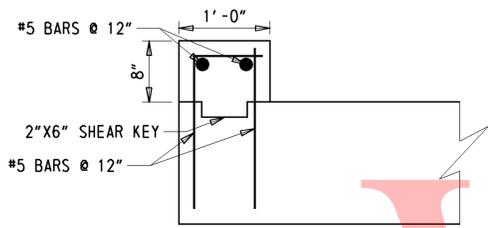
SHEET NO.	10
TOTAL SHTS.	20



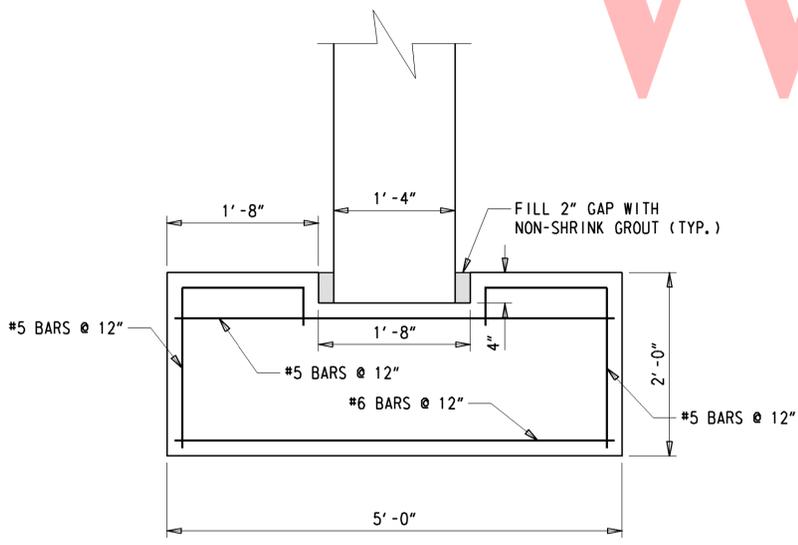
FRAME SECTION
1/2" = 1'-0"



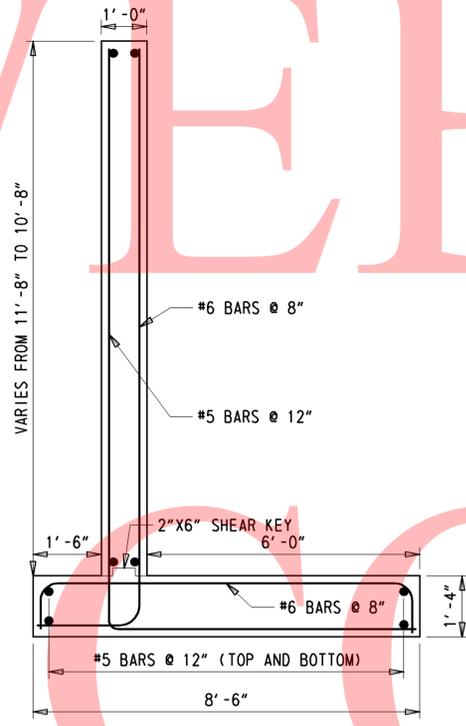
FOOTER PLAN
1/2" = 1'-0"



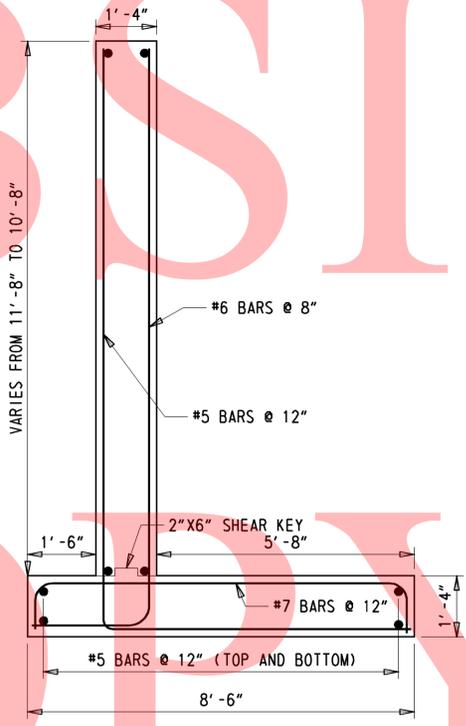
HEADWALL SECTION
1" = 1'-0"



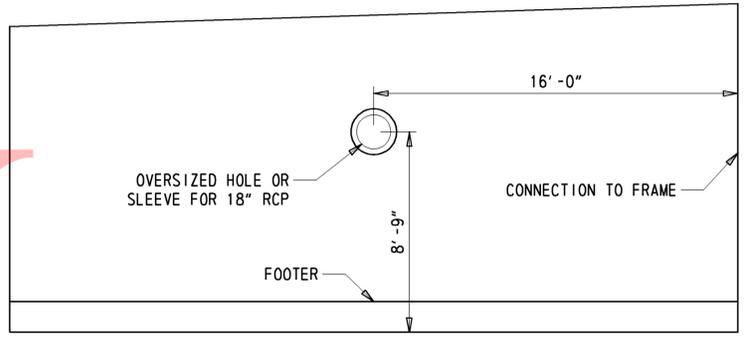
FOOTER SECTION
1" = 1'-0"



WINGWALL SECTION
(SE, NE, NW)
1/2" = 1'-0"



SW WINGWALL SECTION
1/2" = 1'-0"



SW WINGWALL ELEVATION
1/4" = 1'-0"

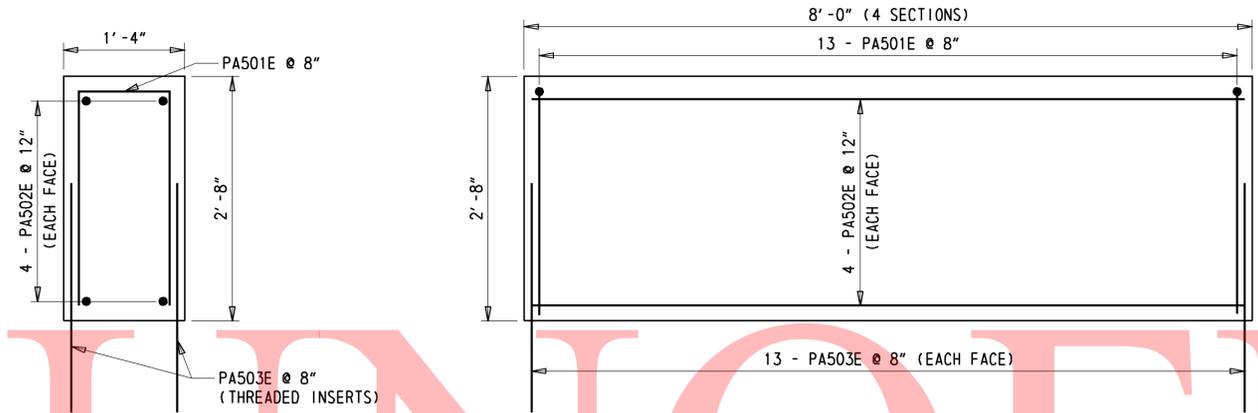
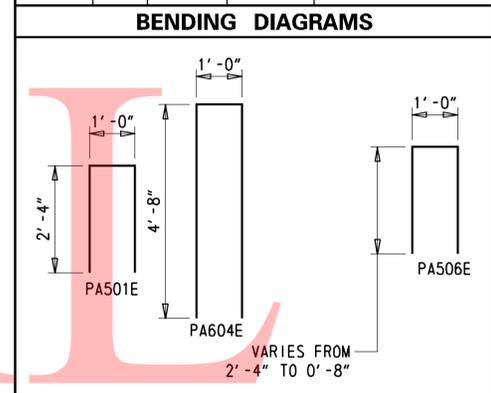
PRECAST ELEMENT NOTES

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 RIGID FRAME AND ITEM 602738 PRECAST CONCRETE RETAINING WALL SHALL INCLUDE:
 - A. ALL PRECAST ELEMENTS FOR THE RESPECTIVE ITEM (RIGID FRAME, FOOTERS, UNDER ITEM 602739 AND WINGWALLS UNDER ITEM 602738).
 - B. ALL ASSOCIATED REINFORCEMENT.
 - C. ALL ACCESSORIES (INCLUDING, BUT NOT LIMITED TO, WEEP HOLES, 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. RIGID FRAME POST-TENSIONING
THE PRECAST RIGID FRAME SECTIONS SHALL BE POST-TENSIONED TOGETHER WITH A MINIMUM OF FOUR POST-TENSIONING TENDONS. THE CULVERT 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 FORCE 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 DUCTS SHALL BE FILLED WITH NON-SHRINK GROUT. ALTERNATIVE METHODS FOR TIGHTLY JOINING BOX CULVERT SECTIONS MAY BE CONSIDERED. HOWEVER, DELAYS DUE TO REJECTED METHODS WILL NOT BE ACCEPTED.
5. 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 4.
 - 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.
6. 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.
7. 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 GAPS ARE NOT VISIBLE.
 - B. ALL JOINTS BETWEEN PRECAST RIGID FRAME SECTIONS SHALL BE TONGUE AND GROOVE OR ALL JOINTS BETWEEN RIGID FRAME SECTIONS SHALL HAVE A SHEAR KEY IN THE TOP SLAB.
 - C. ALL WINGWALL TO WINGWALL AND WINGWALL TO RIGID FRAME JOINTS SHALL HAVE A SHEAR KEY.
 - D. THE LOCATIONS OF THE JOINTS IN THE RIGID FRAME 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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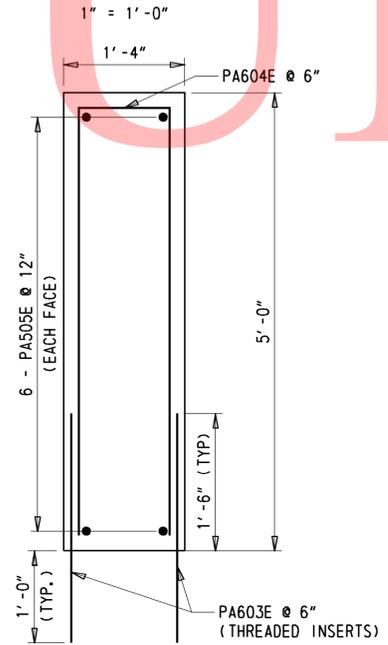
<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	ADDENDUMS / REVISIONS		SCALE AS NOTED	BR 1-274 ON N312 WEDGEWOOD ROAD OVER E BRANCH CHRISTINA RIVER	CONTRACT	BRIDGE NO.	1-274	PRECAST CONCRETE DETAILS	SHEET NO.
					T201207102	DESIGNED BY: JAT	11		
					COUNTY	CHECKED BY: EM	TOTAL SHTS.		
					NEW CASTLE		20		

REINFORCING BAR LIST				
MARK	SIZE	NUMBER	TYPE	LENGTH
PA501E	5	52		5'-8"
PA502E	5	32	STR	7'-8"
PA603E	5	374	STR	2'-6"
PA604E	5	105		10'-3"
PA505E	5	84	STR	7'-0 ³ / ₄ "
PA506E	5	1X30		5'-8"
PA507E	5	14	STR	9'-8"

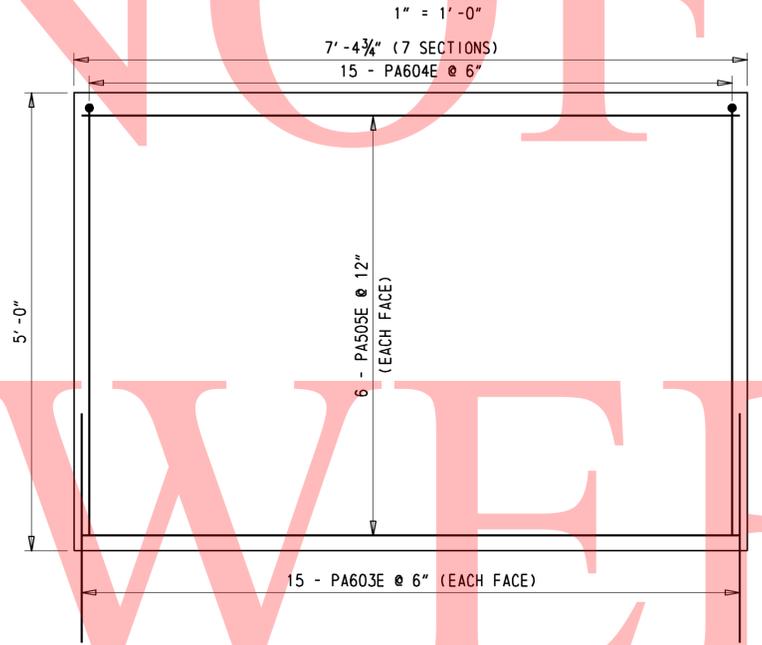


SOUTH BARRIER SECTION

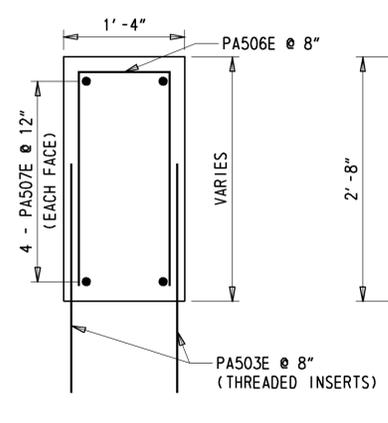
SOUTH BARRIER ELEVATION



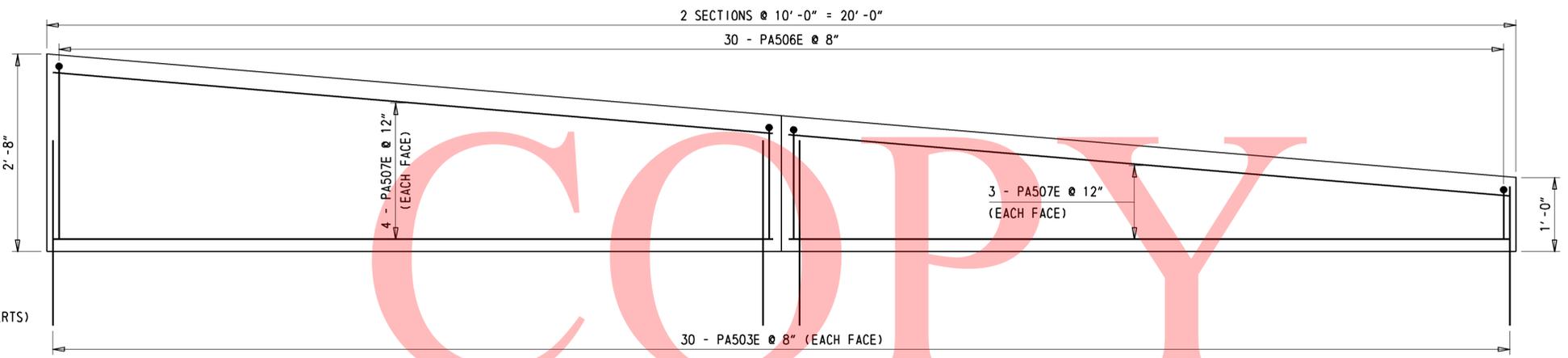
NORTH BARRIER SECTION



NORTH BARRIER ELEVATION



TAPERED SECTION



TAPERED ELEVATION

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<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	ADDENDUMS / REVISIONS	SCALE AS NOTED	BR 1-274 ON N312 WEDGEWOOD ROAD OVER E BRANCH CHRISTINA RIVER	CONTRACT	BRIDGE NO.	1-274	SHEET NO.	
				T201207102	DESIGNED BY: JAT			12
				COUNTY	CHECKED BY: EM			TOTAL SHTS.
				NEW CASTLE			20	

BORING: WR-1 DATE DRILLED: 1/18/12
 STATION: 2+46.20 OFFSET: 9.47 ELEVATION: 178.18 NORTHING: 621683.99 EASTING: 552448.81
 COMMENTS: N/A

SAMPLE INFORMATION					
NO.	DEPTH	BLOWS /6"	DESCRIPTION	CLASS /G.I.	REMARKS
1	0.0		NO SAMPLE		
2	0.0	7	MOIST MEDIUM DENSE BROWNISH ORANGE SILTY COARSE TO FINE SAND W/SOME FINE GRAVEL.	A-1-B	
		7			
		8			
3	2.0	6	WET SOFT GRAY FINE SANDY SILT W/SOME CLAY, COARSE SAND AND FINE GRAVEL.	A-4(0)	
		2			
		1			
4	4.0	2	WET SOFT GRAYISH BROWN CLAYEY SILT W/SOME FINE SAND, TRACE OF COARSE SAND AND FINE GRAVEL.	A-4(7)	
		2			
		2			
5	6.0	6	WET MEDIUM DENSE BROWN SILTY FINE TO COARSE SAND W/SOME FINE GRAVEL.	A-2-4(0)	≡ WATER LEVEL (EL. 171.08)
		6			
		6			
6	8.0	16	WET VERY DENSE BROWN FINE TO COARSE SAND W/SOME SILT, TRACE OF FINE GRAVEL.	A-2-4(0)	
		28			
		50			
7	10.0	6	WET VERY DENSE BROWN FINE TO COARSE SAND AND FINE GRAVEL W/SOME SILT.	A-1-B	
		50			
		50			
8	12.0	12	WET VERY DENSE BROWN SILTY FINE TO COARSE SAND W/TRACE OF FINE GRAVEL.	A-2-4(0)	- BOTTOM OF STONE (EL. 165.00)
		21			
		50			
9	14.0	16	WET VERY DENSE BROWN SILTY FINE TO COARSE SAND W/TRACE OF FINE GRAVEL.	A-2-4(0)	
		31			
		32			
10	16.0	43	NOT ENOUGH SAMPLE FOR TESTING.	N/A	
		50			
		50			
CORE1	18.0		WHITE AND PINK COARSE GRAINED MODERATELY FRACTURED QUARTZ, GRAY MEDIUM GRAINED GNEISS SLIGHTLY FRACTURED MODERATELY HARD TO HARD ROCK.	N/A	
CORE2	19.0		GRAY MEDIUM GRAINED GNEISS MODERATELY FRACTURED SLIGHTLY WEATHERED MODERATELY HARD ROCK.	N/A	
	25.0		END BORING		
	28.0				

BORING: WR-2 DATE DRILLED: 1/18/12
 STATION: 3+73.48 OFFSET: 5.29 ELEVATION: 180.03 NORTHING: 621777.19 EASTING: 552529.15
 COMMENTS: N/A

SAMPLE INFORMATION					
NO.	DEPTH	BLOWS /6"	DESCRIPTION	CLASS /G.I.	REMARKS
1	0.0	11	WET MEDIUM DENSE BROWNISH GRAY SILTY FINE SAND W/SOME COARSE SAND AND FINE GRAVEL.	A-2-4(0)	
		7			
		6			
2	2.0	3	WET DENSE BROWNISH GRAY SILTY FINE GRAVEL AND FINE SAND W/SOME COARSE SAND AND CLAY.	A-2-4(0)	
		2			
		32			
3	4.0	12	NO SIEVE ANALYSIS - INDICATION OF WET VERY DENSE BROWNISH GRAY SILTY SAND.		
		22			
		50			
4	6.0	9	WET MEDIUM DENSE BROWNISH GRAY FINE TO COARSE SAND AND FINE GRAVEL W/SOME SILT.	A-1-B	
		9			
		11			
5	8.0	7	WET VERY DENSE BROWNISH GRAY FINE TO COARSE SAND W/SOME FINE GRAVEL AND SILT.	A-2-4(0)	≡ WATER LEVEL (EL. 172.33)
		20			
		39			
6	10.0	50	WET DENSE BROWNISH GRAY FINE TO COARSE SAND AND FINE GRAVEL W/SOME SILT.	A-1-B	
		50			
		50			
7	12.0	50	WET DENSE GRAY FINE GRAVEL W/SOME FINE TO COARSE SAND, TRACE OF SILT.	A-1-A	- BOTTOM OF STONE (EL. 166.00)
		50			
		50			
8	14.0	50	WET DENSE GRAY FINE TO COARSE SAND AND FINE GRAVEL W/SOME SILT.	A-1-B	
		50			
		50			
9	16.0	50	NO RECOVERY	N/A	
		50			
		50			
CORE1	18.0		GREY VERY FRACTURED HARD MODERATELY WEATHERED SCHIST.	N/A	
	23.5				
CORE2	23.5		GRAY FRACTURED MODERATELY WEATHERED MODERATELY HARD SCHIST.	N/A	
	28.5				
CORE3	28.5		GRAY FRACTURED MODERATELY WEATHERED MODERATELY HARD SCHIST.	N/A	
	30.0				
	30.0		END BORING.		
	33.5				

NOTES:

- BORING LOGS CREATED BY THE DELAWARE DEPARTMENT OF TRANSPORTATION. SUBSURFACE EXPLORATION COMPLETED BY WALTON CORPORATION.
- REFER TO CONSTRUCTION PLAN SHEET (SHEET 5) FOR APPROXIMATE BORING LOCATIONS. BORING LOGS ARE LABELED AS WR-1 AND WR-2.
- SOIL SAMPLING: 2 IN. OUTSIDE DIA. SPLIT BARREL SAMPLER, DRIVEN WITH A 140 LB. HAMMER FALLING 30 IN.
- ALL DEPTHS GIVEN ARE IN FEET.

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 DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS		BR 1-274 ON N312 WEDGEWOOD ROAD OVER E BRANCH CHRISTINA RIVER	CONTRACT	BRIDGE NO.	1-274	BORING LOG	SHEET NO.	13
				T201207102	DESIGNED BY: JAT			TOTAL SHTS.	20
				COUNTY	CHECKED BY: EM				
				NEW CASTLE					

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): *3(a) AND (c) (NO PCN)
 - DNREC - WETLANDS & SUBAQUEOUS LANDS (WLSL): PROJECT CONSISTENT WITH DEL. CODE CH. 72, SECTION 7217 (b), AS AMENDED BY SB 186
 - DNREC - WATER QUALITY (WQC) & COASTAL ZONE CONSISTENCY (CZM): ISSUED
 - NCC - FLOODPLAIN APPROVAL**

* 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 RIPRAP TREATMENTS

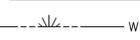
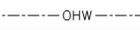
- A. THE CONTRACTOR SHALL FOLLOW THE SPECIAL PROVISIONS OF ITEM *712531 - CHANNEL BED FILL IN REGARDS TO THE SALVAGING OF ON-SITE NATURAL STREAM BOTTOM MATERIAL OR THE FURNISHING OF OFF-SITE MATERIAL. IF THE SUFFICIENT SOURCES FOR CHANNEL BED FILL DO NOT EXIST ON-SITE, ANY NEW MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF ITEM *712531 - CHANNEL BED FILL. ALL 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 A MINIMUM OF 12" 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 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, SOIL RETENTION BLANKET MULCH, TYPE 5 (735535), 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 RIPRAP AND DELAWARE *57 STONE SHALL BE PAID FOR UNDER THE RIPRAP ITEM. ALL OTHER ITEMS SHALL BE PAID FOR UNDER THEIR RESPECTIVE ITEMS.
- 5. CLEARING IN WETLANDS: 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).
- 6. PROTECTION OF RESOURCES: SILT FENCE OR CONSTRUCTION SAFETY FENCE SHALL BE USED ALONG THE LIMITS OF CONSTRUCTION IN AREAS WHERE WETLANDS EXIST. CONTRACTOR ACCESS BEYOND LOC IS STRICTLY PROHIBITED.

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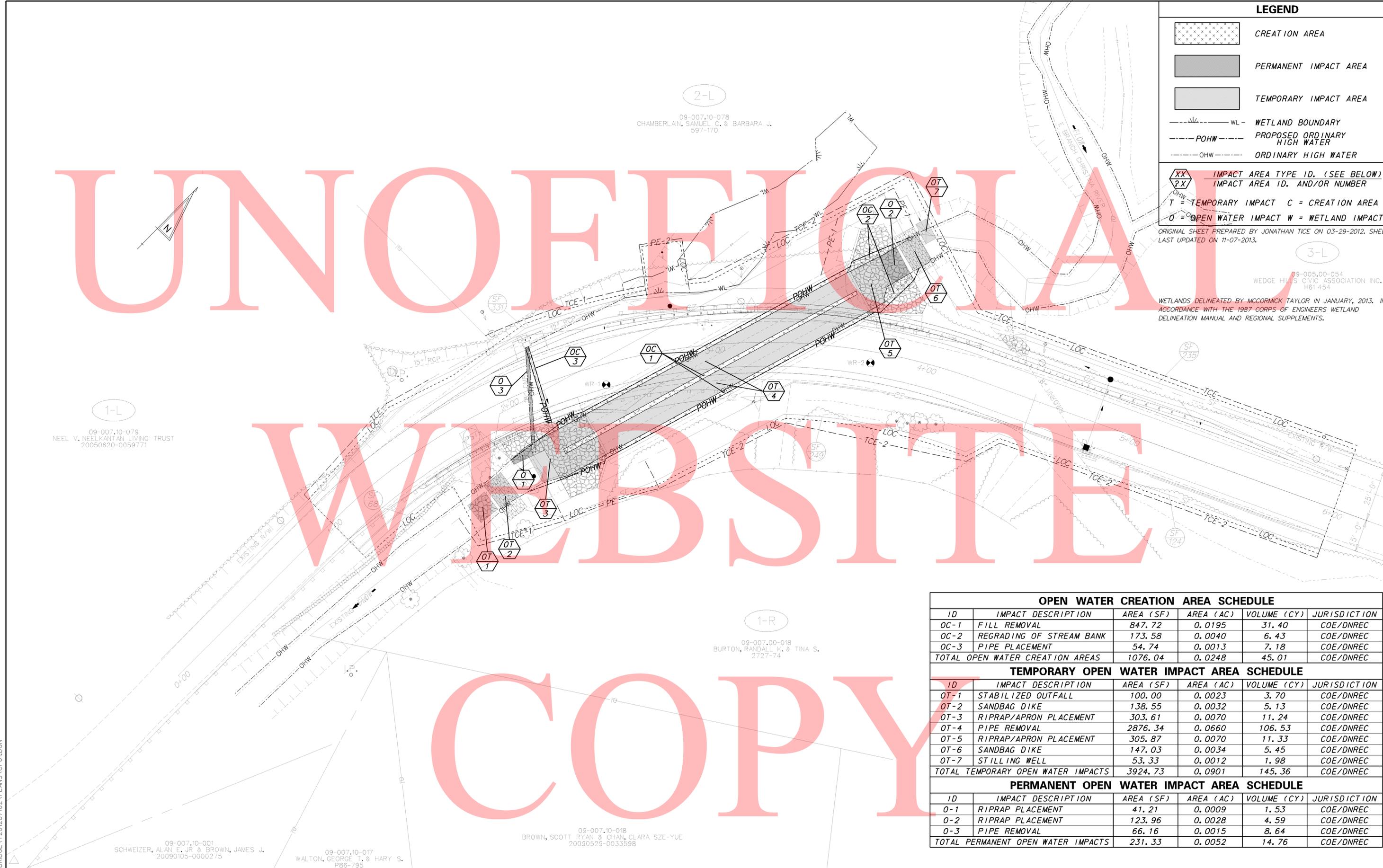
 DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS		BR 1-274 ON N312 WEDGEWOOD ROAD OVER E BRANCH CHRISTINA RIVER	CONTRACT	BRIDGE NO.	1-274	ENVIRONMENTAL COMPLIANCE NOTES	SHEET NO.	14
	T201207102	DESIGNED BY: JAT		COUNTY	CHECKED BY: EM	TOTAL SHTS.		20	
	NEW CASTLE								

LEGEND

-  CREATION AREA
-  PERMANENT IMPACT AREA
-  TEMPORARY IMPACT AREA
-  WL - WETLAND BOUNDARY
-  POHW - PROPOSED ORDINARY HIGH WATER
-  OHW - ORDINARY HIGH WATER

XX
?X
IMPACT AREA ID. (SEE BELOW)
IMPACT AREA ID. AND/OR NUMBER
T = TEMPORARY IMPACT C = CREATION AREA
O = OPEN WATER IMPACT W = WETLAND IMPACT
ORIGINAL SHEET PREPARED BY JONATHAN TICE ON 03-29-2012. SHEET
LAST UPDATED ON 11-07-2013.

09-005,00-054
WEDGE HILLS CIVIC ASSOCIATION INC.
H61 454
WETLANDS DELINEATED BY MCCORMICK TAYLOR IN JANUARY, 2013. IN
ACCORDANCE WITH THE 1987 CORPS OF ENGINEERS WETLAND
DELINEATION MANUAL AND REGIONAL SUPPLEMENTS.



OPEN WATER CREATION AREA SCHEDULE					
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
OC-1	FILL REMOVAL	847.72	0.0195	31.40	COE/DNREC
OC-2	REGRAVING OF STREAM BANK	173.58	0.0040	6.43	COE/DNREC
OC-3	PIPE PLACEMENT	54.74	0.0013	7.18	COE/DNREC
TOTAL OPEN WATER CREATION AREAS		1076.04	0.0248	45.01	COE/DNREC
TEMPORARY OPEN WATER IMPACT AREA SCHEDULE					
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
OT-1	STABILIZED OUTFALL	100.00	0.0023	3.70	COE/DNREC
OT-2	SANDBAG DIKE	138.55	0.0032	5.13	COE/DNREC
OT-3	RIPRAP/APRON PLACEMENT	303.61	0.0070	11.24	COE/DNREC
OT-4	PIPE REMOVAL	2876.34	0.0660	106.53	COE/DNREC
OT-5	RIPRAP/APRON PLACEMENT	305.87	0.0070	11.33	COE/DNREC
OT-6	SANDBAG DIKE	147.03	0.0034	5.45	COE/DNREC
OT-7	STILLING WELL	53.33	0.0012	1.98	COE/DNREC
TOTAL TEMPORARY OPEN WATER IMPACTS		3924.73	0.0901	145.36	COE/DNREC
PERMANENT OPEN WATER IMPACT AREA SCHEDULE					
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
O-1	RIPRAP PLACEMENT	41.21	0.0009	1.53	COE/DNREC
O-2	RIPRAP PLACEMENT	123.96	0.0028	4.59	COE/DNREC
O-3	PIPE REMOVAL	66.16	0.0015	8.64	COE/DNREC
TOTAL PERMANENT OPEN WATER IMPACTS		231.33	0.0052	14.76	COE/DNREC

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WEDGWOOD ROAD

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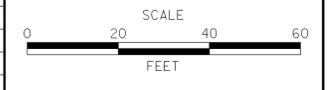
SANDBAG DIKE HEIGHT 4.50'
TOP OF BANK ELEVATION 175.50'
WEIR DIMENSIONS 15' X 1.5'
WEIR ELEVATION 174.00'

SANDBAG DIKE HEIGHT 4.50'
TOP OF BANK ELEVATION 174.50'
WEIR DIMENSIONS 15' X 1.5'
WEIR ELEVATION 173.00'

1. INSTALL MAINTENANCE OF TRAFFIC DEVICES AS PER DETOUR PLAN.
2. INSTALL SILT FENCE, EXCEPT AT CONNECTION TO SANDBAG DIKES.
3. INSTALL A 6'X9' STILLING WELL UPSTREAM OF THE PROPOSED PUMP WITH THE TOP OF STONES LEVEL WITH THE EXISTING STREAM BOTTOM.
4. CONSTRUCT SANDBAG DIKES AT THE LOCATIONS SHOWN TO THE TOP OF THE STREAM BANK. CONNECT SILT FENCE TO SANDBAG DIKES TO COMPLETELY ENCLOSE THE WORK AREA. INSTALL STABILIZED OUTFALL USING R-5 RIPRAP.
5. INSTALL SUMP PIT, TYPE 2, AND PORTABLE SEDIMENT TANK AS A SEDIMENT TRAPPING DEVICE. DEWATER THE WORK AREA IN ACCORDANCE WITH SECTION 111 OF DELDOT STANDARD SPECIFICATIONS. DISCHARGE CLEAN EFFLUENT FROM THE APPROVED SEDIMENT TRAPPING DEVICE AT THE RIPRAPPED DISCHARGE AREA FOR THE DIVERSION PUMP OR ON OTHER STABLE OUTLET AS APPROVED BY THE ENGINEER.
6. REMOVE EXISTING GUARDRAIL, PIPES AND DEBRIS.
7. EXCAVATE AND STOCKPILE THE EXISTING STREAMBED MATERIAL IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND ENVIRONMENTAL COMPLIANCE NOTES.
8. INSTALL PRECAST FOOTERS, FRAME, WINGWALLS AND CIP BARRIER.
9. CONSTRUCT SLOPES, PLACE RIPRAP, CHANNEL BED FILL AND SLOPE STABILIZATION.
10. INSTALL PROPOSED PAVEMENT AND GUARDRAIL AND COMPLETE OTHER REMAINING WORK.
11. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES, INCLUDING THE RIPRAP DISCHARGE AREA. RESTORE STREAM TO EXISTING CONDITIONS AS OUTLINED IN THE ENVIRONMENTAL COMPLIANCE NOTES.
12. REMOVE ALL MAINTENANCE OF TRAFFIC DEVICES.

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ADDENDUMS / REVISIONS	



CONTRACT T201207102	BRIDGE NO. 1-274
COUNTY NEW CASTLE	DESIGNED BY: JAT
	CHECKED BY: JNH

CONSTRUCTION SEQUENCE, AND EROSION & SEDIMENT CONTROL PLAN	SHEET NO. 16
	TOTAL SHTS. 20

CHANGEABLE MESSAGE BOARDS:

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

WEDGEWOOD ROAD

TO CLOSE STARTING XX/XX/XX

CMS-1 DURING DETOUR
(DISPLAY FOR 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

WEDGEWOOD ROAD

CLOSED FOLLOW DETOUR

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

WEDGEWOOD ROAD

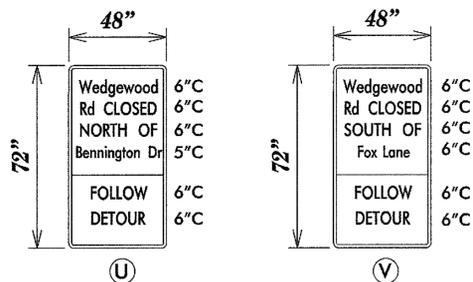
TO CLOSE STARTING XX/XX/XX

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

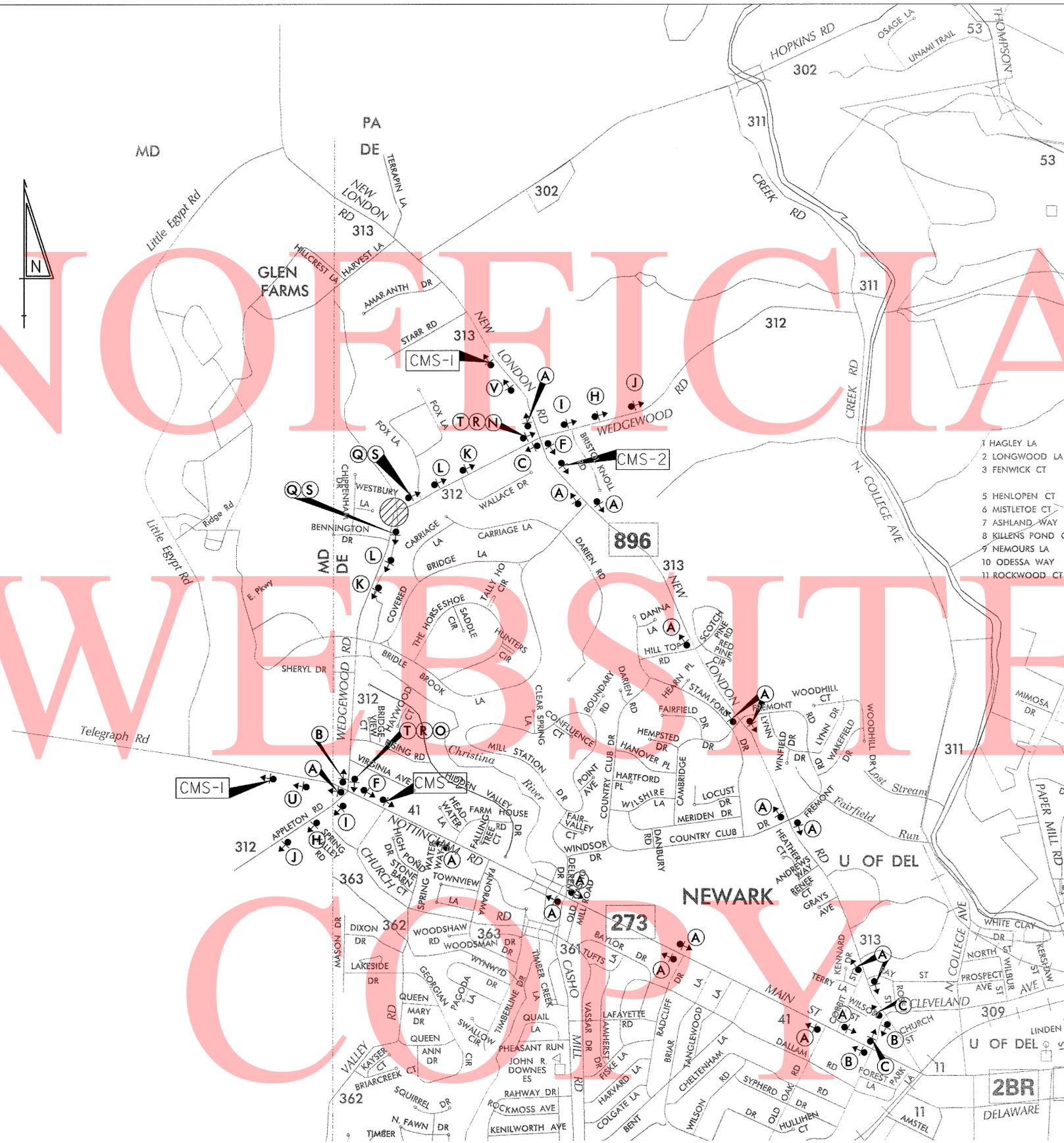
WEDGEWOOD ROAD

CLOSED

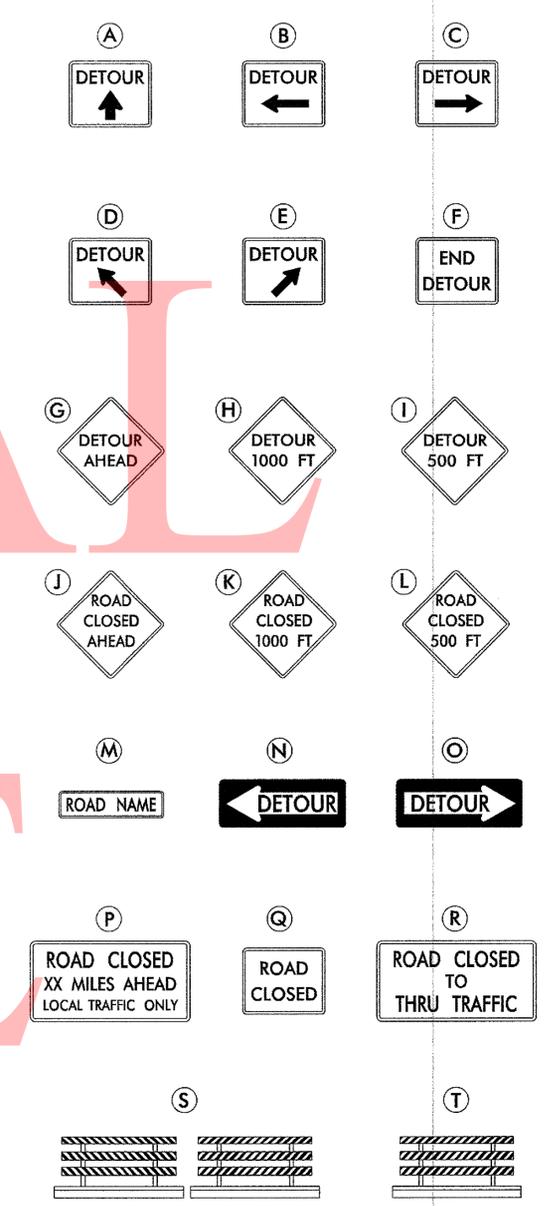
SPECIAL SIGNS:



*D/G RETROREFLECTIVE FLUORESCENT ORANGE BACKGROUND; BLACK LEGEND



LEGEND:



GENERAL NOTES:

- ALL DETOUR SIGNING INCLUDING TRAILBLAZERS ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR IN COMPLIANCE TO THE 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 *Mudg* DATE: 3-27-12 RECOMMENDED *APM* DATE: 3-27-12 RECOMMENDED _____ DATE: _____ APPROVED CHIEF SAFETY OFFICER *Mark P. Murphy* DATE: 3-20-12 APPROVED TRAFFIC ENGINEER *DLW* DATE: 3/2/12

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUM / REVISIONS

NOT TO SCALE

BR 1-274 WEDGEWOOD RD

CONTRACT	ROAD NO.	N312
T201207102	DESIGNED BY:	MFR
COUNTY	CHECKED BY:	ASW
NEW CASTLE		

DETOUR PLAN WEDGEWOOD RD

SHEET NO.	17
TOTAL SHTS.	20

C:\DOCUMENTS AND SETTINGS\MICHAEL.RIVERA\MY DOCUMENTS\MICRO STATION DON\WEDGEWOOD RD AT EAST BRANCH BR 1-274.DGN

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
09-007.10-079	(1-L) NEEL V. NEELKANTAN LIVING TRUST	TCE-1	20050620-0059771	1.760							
ALIGNMENT NUMBER & DESCRIPTION: 1000 - CONSTRUCTION BASELINE											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
41001	1000	1+00.00	-15.00	621549.4098	552387.4091	N 89°18'41.27" W	3.03				
41002	1000	1+00.00	-18.03	621549.4462	552384.3827	N 2°19'48.99" W	56.69				
41003	1000	1+52.15	-26.19	621606.0863	552382.0778	N 16°12'24.86" E	22.49				
41004	1000	1+72.78	-25.00	621627.6833	552388.3551	S 0°41'32.89" W	78.28				
41001	1000	1+00.00	-15.00	621549.4098	552387.4091						
FIGURE 4100 AREA = 321.1232 SQ. FT. (0.0074 ACRES)											

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
09-007.10-078	(2-L) CHAMBERLAIN, SAMUEL C. & BARBARA J.	TCE-1	597-170	2.700							
ALIGNMENT NUMBER & DESCRIPTION: 1000 - CONSTRUCTION BASELINE											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
42001	1000	2+04.80	-25.00	621660.6973	552399.3706	N 89°15'11.00" W	6.41				
42002	1000	2+02.74	-31.00	621660.7809	552392.9571	N 28°15'54.62" E	77.64		77.84		317.48
42003	1000	2+72.97	-31.00	621729.1664	552429.7253	S 52°54'21.92" E	6.00				
42004	1000	2+72.80	-25.00	621725.5458	552434.5136						
42001	1000	2+04.80	-25.00	621660.6973	552399.3706						
FIGURE 4201 AREA = 455.3136 SQ. FT. (0.0105 ACRES)											

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
09-007.10-078	(2-L) CHAMBERLAIN, SAMUEL C. & BARBARA J.	TCE-2	597-170	2.700							
ALIGNMENT NUMBER & DESCRIPTION: 1000 - CONSTRUCTION BASELINE											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
42007	1000	2+91.20	-25.00	621741.4987	552446.5760	N 52°54'21.92" W	6.00				
42008	1000	2+91.03	-31.00	621745.1193	552441.7877	N 39°38'15.09" E	8.19		8.19		317.48
42009	1000	2+98.41	-31.00	621751.4227	552447.0093	N 18°08'02.89" E	106.78				
42010	1000	3+75.60	-84.82	621852.9011	552480.2445	S 71°51'57.11" E	33.87				
42011	1000	3+92.79	-58.63	621842.3607	552512.4277	S 51°34'18.74" W	12.20				
42012	1000	3+82.71	-57.22	621834.7765	552502.8685	N 71°51'57.11" W	3.58				
42013	1000	3+80.85	-60.00	621835.8908	552499.4663	N 71°51'57.11" W	20.10				
42014	1000	3+70.90	-75.90	621842.1479	552480.3613	S 18°03'28.21" W	29.15				
42015	1000	3+51.55	-59.23	621814.4364	552471.3263	S 27°54'06.90" E	27.88				
42016	1000	3+46.72	-31.92	621789.8006	552484.3713	S 18°08'02.89" W	13.48				
42017	1000	3+36.19	-25.00	621776.9874	552480.1749						
42007	1000	2+91.20	-25.00	621741.4987	552446.5760	S 43°25'59.20" W	48.87		48.92		-311.48
FIGURE 4202 AREA = 1551.7013 SQ. FT. (0.0356 ACRES)											

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
09-007.10-078	(2-L) CHAMBERLAIN, SAMUEL C. & BARBARA J.	P/E-1	597-170	2.700							
ALIGNMENT NUMBER & DESCRIPTION: 1000 - CONSTRUCTION BASELINE											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
42016	1000	3+46.72	-31.92	621789.8006	552484.3713	N 27°54'06.90" W	27.88				
42015	1000	3+51.55	-59.23	621814.4364	552471.3263	N 18°03'28.21" E	29.15				
42014	1000	3+70.90	-75.90	621842.1479	552480.3613	S 71°51'57.11" E	20.10				
42013	1000	3+80.85	-60.00	621835.8908	552499.4663	S 18°08'02.89" W	48.50				
42016	1000	3+46.72	-31.92	621789.8006	552484.3713						
FIGURE 4300 AREA = 779.5422 SQ. FT. (0.0179 ACRES)											

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
09-007.10-078	(2-L) CHAMBERLAIN, SAMUEL C. & BARBARA J.	P/E-2	597-170	2.700							
ALIGNMENT NUMBER & DESCRIPTION: 1000 - CONSTRUCTION BASELINE											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
42004	1000	2+72.80	-25.00	621725.5458	552434.5136	N 52°54'21.92" W	25.16				
43000	1000	2+73.49	-50.15	621740.7207	552414.4443	N 37°05'38.08" E	20.00				
43001	1000	2+90.51	-50.15	621756.6737	552426.5068	S 52°54'21.92" E	25.16				
42007	1000	2+91.20	-25.00	621741.4987	552446.5760	S 37°05'38.08" W	20.00				
42004	1000	2+72.80	-25.00	621725.5458	552434.5136						
FIGURE 4500 AREA = 503.2113 SQ. FT. (0.0116 ACRES)											

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
09-005.00-054	(3-L) WEDGE HILLS CIVIC ASSOCIATION INC.	TCE-1	H61-454	30.000							
ALIGNMENT NUMBER & DESCRIPTION: 1000 - CONSTRUCTION BASELINE											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
42012	1000	3+82.71	-57.22	621834.7765	552502.8685	N 51°34'18.74" E	12.20				
42011	1000	3+92.79	-58.63	621842.3607	552512.4277	S 71°51'57.11" E	37.84				
42018	1000	4+15.26	-31.11	621830.5839	552548.3864	N 65°13'32.89" E	185.54				
42019	1000	6+00.00	-31.00	621908.3326	552716.8490	S 24°46'27.11" E	6.00				
42020	1000	6+00.00	-25.00	621902.8848	552719.3633	S 65°13'32.89" W	194.04				
42021	1000	4+07.32	-25.45	621821.5736	552543.1815	N 71°51'57.11" W	42.42				
42012	1000	3+82.71	-57.22	621834.7765	552502.8685						
FIGURE 4400 AREA = 1547.3584 SQ. FT. (0.0355 ACRES)											

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
09-007.00-018	(1-R) BURTON, RANDALL K & TINA S.	TCE-1	2727-74	1.572							
ALIGNMENT NUMBER & DESCRIPTION: 1000 - CONSTRUCTION BASELINE											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
51001	1000	1+50.00	36.44	621592.1566	552443.1713	N 7°12'59.89" E	43.94				
51002	1000	1+99.23	30.00	621635.7508	552448.6914	S 71°52'47.37" E	32.04				
51003	1000	2+00.96	62.00	621625.7874	552479.1383	S 29°31'11.91" W	41.97				
51004	1000	1+50.00	52.00	621589.2693	552458.4605	N 79°18'21.56" W	15.56				
51001	1000	1+50.00	36.44	621592.1566	552443.1713						
FIGURE 5100 AREA = 1000.1698 SQ. FT. (0.0230 ACRES)											

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
09-007.00-018	(1-R) BURTON, RANDALL K & TINA S.	P/E-1	2727-74	1.572							
ALIGNMENT NUMBER & DESCRIPTION: 1000 - CONSTRUCTION BASELINE											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
51005	1000	2+00.49	53.99	621628.2822	552471.5208	N 18°08'02.81" E	45.79				
52001	1000	2+55.64	47.45	621671.7945	552485.7715	S 71°27'06.72" E	15.00				
52009	1000	2+60.04	62.03	621667.0229	552499.9927	S 26°49'39.22" W	46.21				
51003	1000	2+00.96	62.00	621625.7874	552479.1383	N 71°51'57.19" W	8.02				
51005	1000	2+00.49	53.99	621628.2822	552471.5208						
FIGURE 5200 AREA = 526.4679 SQ. FT. (0.0121 ACRES)											

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
09-007.00-018	(1-R) BURTON, RANDALL K & TINA S.	TCE-2	2727-74	1.572							
ALIGNMENT NUMBER & DESCRIPTION: 1000 - CONSTRUCTION BASELINE											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
52001	1000	2+55.64	47.45	621671.7945	552485.7715	N 18°08'02.81" E	77.51				
52002	1000	3+37.20	18.32	621745.4579	552509.8970	N 57°14'11.85" E	109.10		109.45		391.54
52003	1000	4+51.88	15.00	621804.4974	552601.6371	N 65°13'32.89" E	148.12				
52004	1000	6+00.00	15.00	621866.5661	552736.1250	S 24°46'27.11" E	9.00				
52005	1000	6+00.00	24.00	621858.3944	552739.8964	S 65°13'32.89" W	156.42				
52006	1000	4+43.58	24.00	621792.8460	552597.8687	S 17°12'36.43" W	17.71				
52007	1000	4+31.73	37.16	621775.9282	552592.6285	S 57°26'53.28" W	85.45				
52008	1000	3+34.47	37.00	621729.9507	552520.6022	S 18°08'02.81" W	66.22				
52009	1000	2+60.04	62.03	621667.0229	552499.9927	N 71°27'06.72" W	15.00				
52001	1000	2+55.64	47.45	621671.7945	552485.7715						
FIGURE 5300 AREA = 4574.1642 SQ. FT. (0.1050 ACRES)											

COPY SITE

LEGEND	
FEE	AREA OF ACQUISITION
RW	AREA OCCUPIED BY EXISTING RW
PE	PERMANENT EASEMENT
TCE	TEMPORARY CONSTRUCTION EASEMENT
*	OFFSET IS LEFT OF BASELINE
**	CURVE TURNS TO THE LEFT

ADDENDUMS / REVISIONS	
07	ADDED PE TO PARCEL 2-L FOR RELOCATED UTILITY POLE, TCE-1 MODIFIED AND TCE-2 ADDED PFE, 9/6/2013

**BR 1-274 ON N312
WEDGEWOOD ROAD OVER
E BRANCH CHRISTINA RIVER**

CONTRACT	T201207102	BRIDGE NO.	1-274
COUNTY	NEW CASTLE	DESIGNED BY:	JAT
		CHECKED BY:	EM

RIGHT-OF-WAY DATA SHEET		SHEET NO.	19
		TOTAL SHTS.	20

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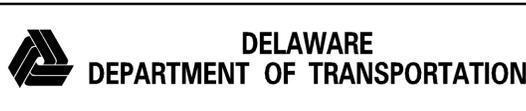


COUNTY ASSESSMENT PARCEL NUMBER	PLAN SHEET NUMBER	OWNERSHIP OF RECORD	TITLE SOURCE	PROPERTY AREA BEFORE ACQUISITION (ACRE) D=DEED C=CALCULATED A=ASSESSMENT	ACQUISITION CODE FEE, R/W, P/E, TCE	AREA TO BE ACQUIRED				PROPERTY AREA REMAINING (SQ. FEET /ACRES)	DEED RECORD OF ACQUISITION	REMARKS
						ACQUISITION (SQ. FEET /ACRES)	AREA OCCUPIED BY EXISTING RIGHT OF WAY (SQ. FEET /ACRES)	EASEMENT				
								PERMANENT (SQ. FEET /ACRES)	TEMPORARY (SQ. FEET /ACRES)			
09-007.10-079	17	(1-L) NEEL V. NEELKANTAN LIVING TRUST	20050620-0059771	D - 1.76	TCE-1				321,1232 / 0.01	76665.60 / 1.76		
09-007.10-078	17	(2-L) CHAMBERLAIN, SAMUEL C. & BARBARA J.	597-170	D - 2.70	TCE-1 TCE-2 P/E-1 P/E-2				455,3136 / 0.01 1551,7013 / 0.04			
									779,5422 / 0.02 503,2113 / 0.01	117612.00 / 2.70		
09-005.00-054	17	(3-L) WEDGE HILLS CIVIC ASSOCIATION INC.	H61-454	D - 30.00	TCE-1				1547,3584 / 0.04	1306800.00 / 30.00		
09-007.00-018	17	(1-R) BURTON, RANDALL K & TINA S.	2727-74	C - 1.57	TCE-1 P/E-1 TCE-2				1000,1698 / 0.02 526,4679 / 0.01	68479.59 / 1.57		

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WEBSITE
COPY

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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 1-274 ON N312
WEDGEWOOD ROAD OVER
E BRANCH CHRISTINA RIVER**

CONTRACT T201207102	BRIDGE NO. 1-274
COUNTY NEW CASTLE	DESIGNED BY: JAT
	CHECKED BY: EM

**RIGHT-OF-WAY
TABULATION SHEET**

SHEET NO.	20
TOTAL SHTS.	20