THE STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY UNITS

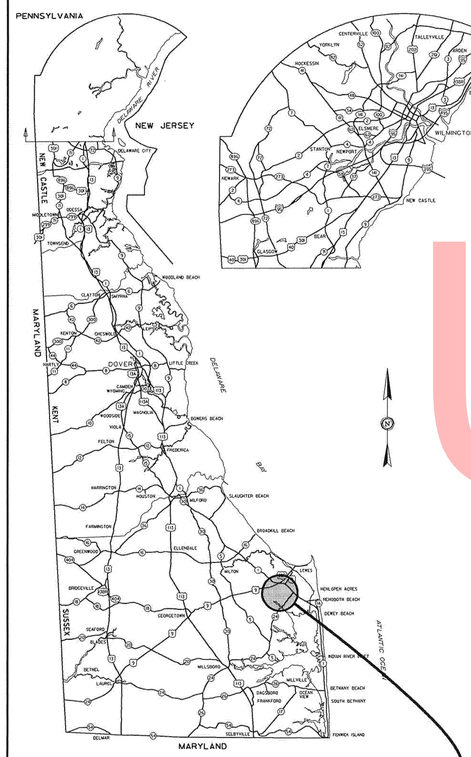
CONSTRUCTION PLANS FOR:

HSIP, SC, PLANTATION ROAD AT CEDAR GROVE ROAD / POSTAL LANE INTERSECTION IMPROVEMENTS

CONTRACT NUMBER: T200911201

FEDERAL AID PROJECT NUMBER: ESTP-S275(01)

COUNTY: SUSSEX **M.R. #:** 275 / 283



GENERAL LOCATION OF CONTRACT

BEGIN CONTRACT STATION 101+00.00

LIMIT OF CONTRACT STATION 222+00.00

LOCATION MAP
NOT TO SCALE

LIMIT OF CONTRACT STATION 200+00.00

END CONTRACT STATION 120+00.00

DESIGN DESIGNATION – PLANTATION ROAD

FUNCTIONAL CLASS: MAJOR COLLECTOR	D.H.V. PROJECTED: 1,800	YEAR: 2020
TYPE OF CONSTRUCTION: INTERSECTION IMPROVEMENT	DESIGN SPEED: 45 M.P.H.	
A.A.D.T. CURRENT: 10,894	YEAR: 2008	TRUCKS: 14 %
A.A.D.T. PROJECTED: 15,250	YEAR: 2020	DIRECTION OF DISTRIBUTION: 46 %

DESIGN DESIGNATION – CEDAR GROVE ROAD

FUNCTIONAL CLASS: LOCAL	D.H.V. PROJECTED: 300	YEAR: 2020
TYPE OF CONSTRUCTION: INTERSECTION IMPROVEMENT	DESIGN SPEED: 40 M.P.H.	
A.A.D.T. CURRENT: 2,300	YEAR: 2008	TRUCKS: 14 %
A.A.D.T. PROJECTED: 3,200	YEAR: 2020	DIRECTION OF DISTRIBUTION: 53 %

DESIGN DESIGNATION – POSTAL LANE

FUNCTIONAL CLASS: LOCAL	D.H.V. PROJECTED: 800	YEAR: 2020
TYPE OF CONSTRUCTION: INTERSECTION IMPROVEMENT	DESIGN SPEED: 30 M.P.H.	
A.A.D.T. CURRENT: 5,412	YEAR: 2008	TRUCKS: 14 %
A.A.D.T. PROJECTED: 7,600	YEAR: 2020	DIRECTION OF DISTRIBUTION: 53 %

INDEX OF SHEETS

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TOTAL SHEETS: 51

APPROVED DESIGN EXCEPTIONS

DESIGN PARAMETER	REQUIRED	PROVIDED	DATE

ADDENDA & REVISIONS

DESCRIPTION	NAME & DATE

ASSOCIATED CONTRACTS

CONTRACT NO.	CONTRACT NAME

PREPARED BY
THE CONSULTING FIRM OF

SEAL

RECOMMENDED _____ DATE _____

RECOMMENDED

Roberta Campbell — SQUAD MANAGER, CONSTRUCTION — DATE 10/28/2013

Bradford L Salows — GROUP ENGINEER, CONSTRUCTION — DATE 10/28/2013

ASSISTANT DIRECTOR, TRANSPORTATION SOLUTIONS (CONSTRUCTION) — DATE

RECOMMENDED

Vincent W. Davis — STORMWATER ENGINEER — DATE 31 OCT 2013

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

RECOMMENDED

SQUAD MANAGER, TRANSPORTATION SOLUTIONS (PROJECT DEVELOPMENT OR BRIDGE DESIGN) — DATE October 31, 2013

R. MARK HARBESON — REGISTERED — No. 12399 — DELAWARE PROFESSIONAL ENGINEER — SEAL

RECOMMENDED

BRIDGE DESIGN ENGINEER — DATE _____ — SEAL

RECOMMENDED

GROUP ENGINEER, PROJECT DEVELOPMENT — DATE October 31, 2013

GEORGE N. SPADARO — REGISTERED — No. 11837 — DELAWARE PROFESSIONAL ENGINEER — SEAL

RECOMMENDED

ASSISTANT DIRECTOR, TRANSPORTATION SOLUTIONS — DATE 10/31/13

MICHAEL H. SIMMONS — REGISTERED — No. 8211 — DELAWARE PROFESSIONAL ENGINEER — SEAL

APPROVED

CHIEF ENGINEER — DATE 10/31/13

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

LAST REVISED: 8/7/2008

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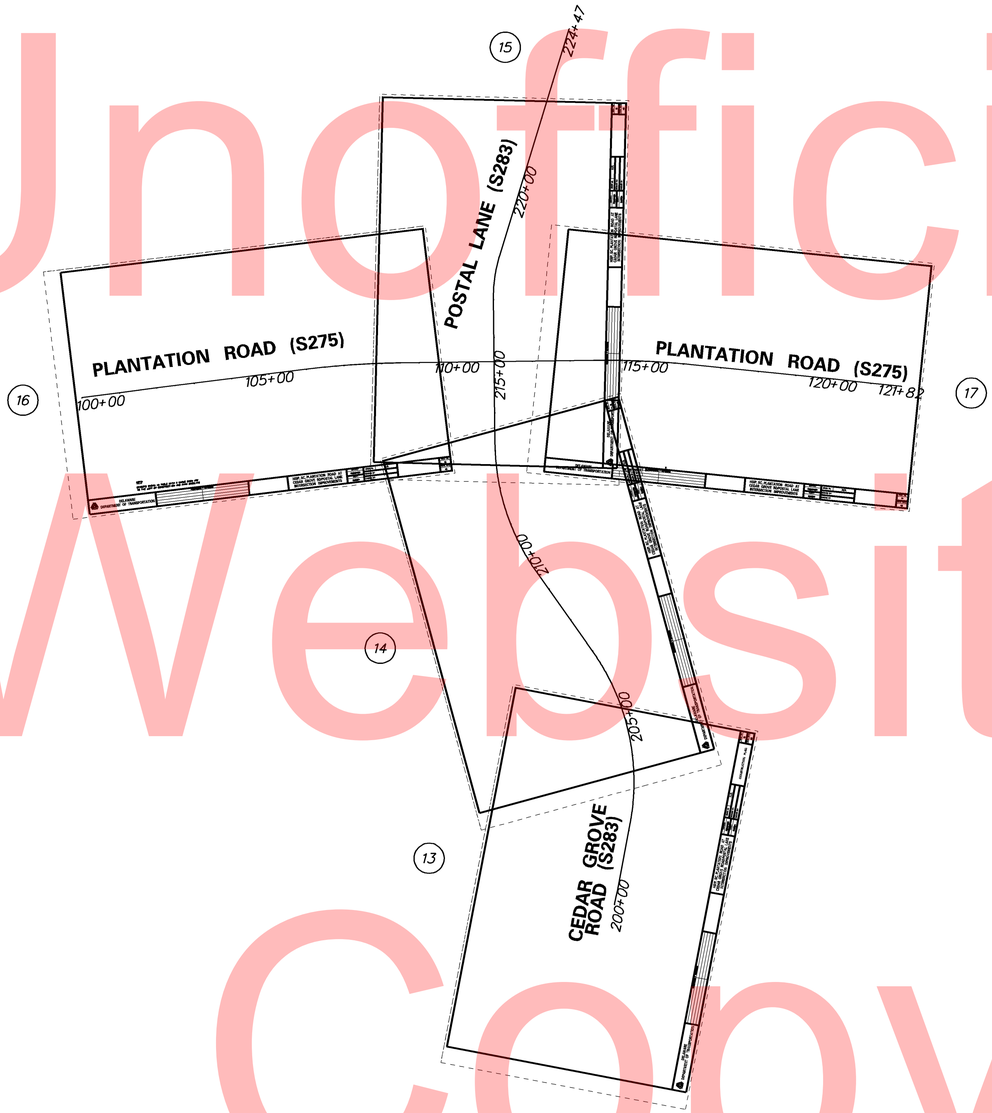
SIGNALIZATION PLAN	N/A	N/A	45	45	45



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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 200 400 600 FEET	HSIP, SC, PLANTATION ROAD AT CEDAR GROVE RD/POSTAL LANE INTERSECTION IMPROVEMENTS	CONTRACT T200911201	BRIDGE NO. N/A	PLAN SHEET INDEX	SHEET NO. 2
				COUNTY SUSSEX	DESIGNED BY: B.J.D.		TOTAL SHTS. 51
					CHECKED BY:		

EXISTING SYMBOLS

DRAINAGE

	DITCH OR STREAM CENTERLINE
	DIRECTIONAL STREAM FLOW ARROW
C.B. / D.I.	DRAINAGE INLET
J.B.	DRAINAGE JUNCTION BOX
Ⓓ	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
F.P.	FLAG POLE
	GUARDRAIL - STEEL BEAM
	GUARDRAIL - WIRE ROPE
LAMP	LAMP AND POST - RESIDENTIAL
MB	MAILBOX
P.M.	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
PP	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
Ⓔ	ELECTRIC MANHOLE
EM	ELECTRIC METER
E	ELECTRIC TRANSFORMER
	POLE MOUNTED LUMINAIRE
Ⓖ	GAS MANHOLE
G.M.	GAS METER
G.V.	GAS VALVE
G.P.	GAS PUMP - SERVICE STATION
	RAILROAD TRACKS
Ⓢ	SANITARY SEWER MANHOLE
S.V.	SANITARY SEWER VALVE
VENT	SANITARY SEWER VENT OR CLEANOUT
S.D.F.	SEPTIC DRAIN FIELD
B	TELEPHONE BOOTH
Ⓣ	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

COM-C	COMCAST - CABLE
DEC-E	DELAWARE ELECTRIC COOPERATIVE
SIG-CON	DELDOT SIGNAL CONDUIT - PROPOSED
DP-E	DELMARVA POWER - ELECTRIC
SC-S	SUSSEX COUNTY - SEWER
SC-W	SUSSEX COUNTY - WATER
TU-W	TIDEWATER UTILITIES - WATER
VER-C	VERIZON - CABLE
VER-FO	VERIZON - FIBER OPTIC
UNK	UNKNOWN UTILITY

PROPOSED SYMBOLS

CONSTRUCTION

	CONCRETE SAFETY BARRIER - PERMANENT
BFS	BIOFILTRATION SWALE
	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
CJB	CONVERT TO JUNCTION BOX
CMH	CONVERT TO DRAINAGE MANHOLE
C O	CURB OPENING
CR	CURB RAMP / TYPE
CR-W	CURB RAMP / TYPE - WITHOUT SIDEWALK SURFACE DETECTABLE WARNING SYSTEM
CSF	CONSTRUCTION SAFETY FENCE
DI	DRAINAGE INLET
DND	DO NOT DISTURB
ED	ENERGY DISSIPATOR
F	FENCE
FES	FLARED END SECTION
FT C	FILL WITH FLOWABLE FILL
FS	FILTRATION STRUCTURE
GR	GUARDRAIL
JB	JUNCTION BOX
MH	MANHOLE
M	MONUMENT - RIGHT-OF-WAY
P	PIPE
RL C	RELOCATE BY CONTRACTOR
RL O	RELOCATE BY OTHERS
RM C	REMOVE BY CONTRACTOR
RM O	REMOVE BY OTHERS
UD	UNDERDRAIN / LENGTH
UDO	UNDERDRAIN OUTLET PIPE
SC	STEEL CASING PIPE

LANDSCAPING

LS	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

PAVEMENT SECTION(S)

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

UTILITY COMPANY FACILITIES

COM-C	COMCAST CABLE
VER-C	VERIZON CABLE
TU-W	TIDEWATER UTILITIES - WATER
DEC-E	DELAWARE ELECTRIC COOP. - ELECTRIC
DP-E	DELMARVA POWER - ELECTRIC
SC-S	SUSSEX COUNTY - SEWER

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LAST REVISED: 01/08/2013
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DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

NOT TO SCALE

HSIP, SC, PLANTATION ROAD AT CEDAR GROVE RD / POSTAL LANE INTERSECTION IMPROVEMENTS

CONTRACT	T200911201	BRIDGE NO.	N/A
COUNTY	SUSSEX	DESIGNED BY:	
		CHECKED BY:	

LEGEND

SHEET NO.	3
TOTAL SHTS.	51

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. 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 1.3 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
( ) MEDIUM	THE SUPERINTENDENT OR A SEPARATE INDIVIDUAL FROM THE CONTRACTOR'S STAFF SHALL BE A CERTIFIED CONSTRUCTION REVIEWER (CCR), AS DEFINED IN SECTION 1.2 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
(X) 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.

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

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

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

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

( )	THE CONTRACTOR SHALL NOT BE REQUIRED TO HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT.
( )	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.
(X)	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 __12.18____ ACRES.

7. 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.

8. 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

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

2. THE CONTRACTOR WILL BE REQUIRED TO CONTACT THE INVOLVED UTILITY COMPANIES AND COORDINATE HIS WORK WITH ANY CONSTRUCTION ACTIVITY BY UTILITY COMPANIES, OR ADJACENT CONTRUCTION CONTRACTS. PROPOSED UTILITY RELOCATIONS ARE SHOWN ON THE PLANS-REFER TO UTILITY STATEMENT FOR DETAILED SCOPE OF AND TIMING OF UTILITY WORK.

SECTION 200

3. 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.

4. IN AREAS WHERE TREES OR SHRUBS WILL BE OVERHANGING THE PROPOSED SIDEWALK, PRUNING MAY BE NECESSARY TO ACHIEVE A VERTICAL CLEAR SPACE OF 10 FEET ABOVE THE PROPOSED SIDEWALK ELEVATION. THE CONTRACTOR SHALL PRUNE EXISTING TREE AND SHRUB BRANCHES, WHICH OVERHANG THE SIDEWALK, IN ACCORDANCE WITH I.S.A. STANDARDS. THE CONTRACTOR SHALL NOTIFY DELDOT'S ROADSIDE ENVIRONMENTALIST ADMINISTRATOR, EUGENE 'CHIP' ROSAN, JR. AT (302) 760-2185 AND/OR HIS DESIGNEE, AT LEAST TWO (2) DAYS PRIOR TO THE PRUNING OPERATION. ALL COSTS ASSOCIATED WITH THE ABOVE WORK TO BE PAID UNDER ITEM 201000 - CLEARING AND GRUBBING.

5. 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.

6. ITEMS TO BE REMOVED UNDER ITEM 211000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
   - MISCELANEOUS SMALL STRUCTURES NOT COVERED UNDER OTHER PAY ITEMS.

7. THIS PROJECT IS COVERED UNDER AN NPDES GENERAL PERMIT FOR CONSTRUCTION. UNDER THE GENERAL PERMIT, COMPLIANCE WITH DELDOT'S APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLANS WILL CONSTITUTE COMPLIANCE WITH THE NPDES INDUSTRIAL PERMITTING REQUIREMENTS FOR THIS CONSTRUCTION PROJECT. A COPY OF THE NPDES GENERAL PERMIT AND 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.

8. COST FOR ANY PUMPING REQUIRED TO COMPLETE THIS PROJECT SHALL BE INCIDENTAL TO ITEM 202000-EXCAVATION AND EMBANKMENT.

9. THE CONTRACTOR SHALL REMOVE ALL TREES AND SHRUBS WITHIN THE LOC, UNLESS OTHERWISE NOTED ON THE PLANS WITH "DND." THE CONTRACTOR SHALL PROTECT TREES NOTED ON THE PLANS BY "DND" BY PLACING CONSTRUCTION SAFETY FENCE ERECTED AT THE DRIP LINE OF THE TREES WITHIN THE LIMIT OF CONSTRUCTION AS SHOWN ON THE PLANS. PAYMENT FOR TREE CLEARING, REGARDLESS OF SIZE, WILL BE MADE UNDER ITEM 201000-CLEARING AND GRUBBING.

SECTION 300

10. 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 DELDOT'S PROJECT 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 MEETING THE ADVERTISED QUANTITY OF 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 MILLING MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR.

    D. HOT-MIX MILLINGS MAY BE GENERATED FROM THE FOLLOWING SOURCES:
    a. MATERIAL MADE AVAILABLE WHEN MILLED ON THIS CONTRACT UNDER ITEM 760507.
    b. MATERIAL MILLED ON THIS CONTRACT AT THE CONTRACTOR'S CHOICE UNDER ITEM 202000.
    c. MILLED MATERIAL FURNISHED ON THE JOB FROM THE CONTRACTOR'S YARD OR OTHER OUTSIDE SOURCE.

    ALL MILLED MATERIALS SHALL MEET THE MATERIAL REQUIREMENTS OF ITEM 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. MILLINGS GENERATED UNDER ITEM 760507 - PROFILE MILLING MAY BE RECYCLED INTO HOT-MIX, UTILIZED FOR BASE COURSE OR DISPOSED OF BY THE CONTRACTOR TO AN APPROVED SITE. NO SEPARATE PAYMENT WILL BE MADE FOR TRANSPORTING MILLINGS ON SITE OR TO AN APPROVED DISPOSAL SITE.

    c. SHOULD THE CONTRACTOR ELECT TO TEMPORARILY STOCKPILE MILLINGS ON THE JOB SITE FOR LATER USE, ALL COSTS FOR STOCKPILING AND SUBSEQUENT REHANDLING SHALL BE INCIDENTAL TO ITEM 202000 - EXCAVATION AND EMBANKMENT.

    d. 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 IN PLACE AT THE UNIT BID PRICE FOR ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B'.

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

    f. 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 400

11. THE PAVEMENT SECTION FOR HOT-MIX RESIDENTIAL DRIVEWAYS SHALL BE 2" HOT-MIX, TYPE 'C' OVER 8" GRADED AGGREGATE BASE COURSE, TYPE 'B', UNLESS OTHERWISE NOTED ON THE PLANS.

12. HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM) IS INTENDED TO BE USED IN LIMITED AMOUNTS ONLY FOR MINOR TEMPORARY GRADE ADJUSTMENTS OR PATCHING POTHOLES. PAYMENT FOR HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM) SHALL BE INCIDENTAL TO ITEM 743000, MAINTENANCE OF TRAFFIC. THIS ITEM WILL ONLY BE USED AS DIRECTED BY THE ENGINEER IN THE FIELD.

SECTION 600

13. THE DEPARTMENT AND THE CONTRACTOR SHALL INSPECT ALL EXISTING PIPOES AND DRAINAGE STRUCTURES TO BE USED IN THE FINAL DRAINAGE SYSTEM AND AGREE ON THE CONDITION PRIOR TO THE START OF CONSTUCTION. EXISTING PIPES AND DRAINAGE STRUCTURES DAMANGED DUE TO CONTRACTOR OPERATIONS SHALL BE REAPAIRED OR REPLACED IN-KIND AT THE CONTRACTOR'S EXPENSE. THE DEPARTMENT WILL BIDEO 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.

14. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL TO SUSSEX COUNTY ENGINEERING DEPARTMENT FOR THE INSTALLATION OF ITEM 614605 - STEEL CASING PIPE, 12". CONTACT ASSISTANT COUNTY ENGINEER JOE WRIGHT AT (302) 855-7865 TO COORDINATE THIS SUBMISSION.

SECTION 700

15. PORTLAND CEMENT CONCRETE CHANNELIZING ISLANDS THAT ARE LESS THAN 75 SQ FT MAY BE POURED MONOLITHICALLY, OR AS DIRECTED BY THE ENGINEER.

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

17. 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.

18. THE STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIAL WILL NOT BE ALLOWED WITHIN THE PROPOSED STORMWATER MANGEMENT POND AREA IMMEDIATELY ADJACENT TO RESIDENTIAL AND COMMERCIAL PROPERTIES. LOCATION AND STORAGE AND LAY DOWN AREAS IS THE CONTRACTOR'S RESPONSIBILITY.

19. ROADSIDE AMENITIES WITHIN THE LIMITS OF CONSTRUCTION OR EASEMENT AREAS THAT ARE TO REMAIN IN PLACE AND ARE NOTED BY "DND" SHALL BE PROTECTED BY THE CONTRACTOR WITH SAFETY FENCE OR OTHER MEASURES AS DIRECTED BY THE ENGINEER. ANY DAMAGE TO THESE AMENITIES SHALL BE REPAIRED IN KIND AT THE CONTRACTOR'S EXPENSE. PAYMENT FOR SAFETY FENCE WILL BE MADE UNDER ITEM 727014 - CONSTRUCTION SAFETY FENCE.

20. SUSSEX COUNTY ENGINEERING MUST BE NOTIFIED 72 HOURS PRIOR TO ANY SANITARY SEWER WORK. THE SUSSEX COUNTY UTILITY CONSTRUCTION DIVISION CAN BE REACHED AT (302) 855-7717

21. SANITARY SEWER MUST REMAIN IN OPERATION AT ALL TIMES UNLESS WRITTEN AUTHORIZATION IS PROVIDED BY SUSSEX COUNTY.

22. ALL WORK AND MATERIALS REQUIRED TO ADJUST THE SANITARY MANHOLES AS SHOWN ON THE PLANS AND CONSTRUCTION DETAILS SHALL BE DONE IN ACCORDANCE WITH SUSSEX COUNTY STANDARD DETAILS AND PAID FOR PER EACH UNDER ITEM 710506 - ADJUST AND REPAIR EXISTING SANITARY MANHOLE. SEE CONSTRUCTION DETAILS FOR SUSSEX COUNTY SEWER MANHOLE VERTICAL ADJUSTMENT DETAIL.

23. SANITARY SEWER LATERAL AND VENT RELOCATION/ADJUSTMENT SHALL BE INCIDENTAL TO ITEM *753000- ADJUST SANITARY SEWER LATERALS, AT APPROXIMATE STATIONS 217+00 LT AND 220+45 LT

24. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO AVOID ANY DEBRIS FROM ENTERING THE SANITARY SEWER WHILE MAKING PIPE OR MANHOLE ADJUSTMENTS. IN THE EVENT DEBRIS ENTERS THE SYSTEM THE CONTRACTOR WILL BE RESPONSIBLE TO PROVIDE A SEWER VACUUM TRUCK TO ADEQUATELY CLEAN THE EFFECTED PIPELINES.

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LAST REVISED: 10/22/2013
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DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	

NOT TO SCALE

HSIP, SC, PLANTATION ROAD AT CEDAR GROVE ROAD/POSTAL LANE INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T200911201	DESIGNED BY:	
COUNTY		
SUSSEX	CHECKED BY:	

NOTES

SHEET NO.
4
TOTAL SHTS.
51

PROJECT NOTES CONTINUED

25. THE CONTRACTOR SHALL CONSTRUCT THE SIDEWALKS USING THE CROSS SLOPES DEFINED ON THE TYPICAL SECTIONS. THE MAXIMUM CROSS SLOPE FOR SIDEWALKS SHALL BE TWO PERCENT.

26. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE PAID FOR UNDER ITEM 763501 - CONSTRUCTION ENGINEERING.

MISCELLANEOUS

27. THE CONTRACTOR SHALL CONTACT MICHAEL ELLER, THE CHIEF OF SCHEDULING FOR DART FIRST STATE, 14 DAYS PRIOR TO THE START OF CONSTRUCTION AT 302-576-6061.

28. RIGHT-OF-WAY PLANS FOR RIGHT-OF-WAY OR EASEMENT STAKEOUT PURPOSES ARE AVAILABLE FROM THE DEPARTMENT.

29. THERE ARE NO ENVIRONMENTAL PERMITS ASSOCIATED WITH THIS PROJECT. AS SUCH, AN ENVIRONMENTAL COMPLIANCE SHEET WAS NOT PREPARED.

29. THE INTENT OF THIS CONTRACT IS TO RECONSTRUCT AND REALIGN THE INTERSECTION OF PLANTATIONS ROAD AT CEDAR GROVE ROAD AND POSTAL LANE. CEDAR GROVE ROAD AND POSTAL LANE MAY BE BUILT SIMULTANEOUSLY UNDER VEHICLE DETOUR (PHASE 1 AND PHASE 2). THE RECONSTRUCTION OF PLANTATIONS ROAD DURING PHASE 3 SHALL ALSO BE BUILT UNDER A 57 HOUR VEHICLE DETOUR.

ALL WORK TO BE COMPLETED UNDER DETOUR FOR PLANTATION ROAD AND POSTAL LANE AS SHOWN IN THE CONSTRUCTION PHASING SHEETS: CONSTRUCTION PHASE 1, CONSTRUCTION PHASE 2 AND CONSTRUCTION PHASE 3 SHALL BE COMPLETED BY MAY 15, 2015. SHOULD THE CONTRACTOR FAIL TO COMPLETE THE WORK AND OPEN ONE LANE OF TRAFFIC IN EACH DIRECTION ON POSTAL LANE AND PLANTATION ROAD WITHIN THE SPECIFIED TIME FRAME (PLUS ANY APPROVED TIME EXTENSIONS), ROAD USER COSTS IN THE AMOUNT OF $10,016.10 PER CALENDAR DAY WILL BE ASSESSED FOR EACH DAY EXCEEDING THE APPROVED COMPLETION TIME UNTIL POSTAL LANE AND PLANTATIONS ROAD ARE OPENED TO TRAFFIC. THE FOLLOWING IS A LIST OF THE OPERATING COSTS TO BE ASSESSED FOR EACH DETOURED MOVEMENT SHOULD THE CONTACTOR PARTIALLY OPEN POSTAL LANE OR PLANTATIONS ROAD TO TRAFFIC:

- NORTHBOUND PLANTATION ROAD RIGHT TURN GENERATES AN OPERATING COST OF $1,552.67 PER DAY.
- SOUTHBOUND PLANTATION ROAD LEFT TURN GENERATES AN OPERATING COST OF $2,793.56 PER DAY.
- ALL WESTBOUND POSTAL LANE MOVEMENTS GENERATE AN OPERATING COST OF $5,669.86 PER DAY.

FOR THIS PURPOSE ANY PORTION OF A DAY (BEGINNING AT 5:00 A.M.) WILL BE CONSIDERED A FULL DAY IN REFERENCE TO ROAD USER ASSESSMENT. IN ORDER TO OPEN THE ROADWAY TO TRAFFIC THE TYPE C WARM MIX AND FINAL STRIPING MUST BE COMPLETED ON POSTAL LANE AND PLANTATION ROAD.

EARTHWORK SUMMARY

EXCAVATION	
EXCAVATION FROM CROSS SECTIONS	24,735 C.Y.
ROCK EXCAVATION FOR ROADWAY AND TRENCHES	0 C.Y.
TOPSOIL STRIPPING	3,900 C.Y.
TOTAL EXCAVATION	28,635 C.Y.
EXCAVATION AVAILABLE FOR EMBANKMENT	
EXCAVATION MEETING BORROW TYPE 'A'	2,696 C.Y.
EXCAVATION MEETING BORROW TYPE 'F'	3,146 C.Y.
EXCAVATION MEETING TOPSOIL	1,980 C.Y.
EMBANKMENT REQUIREMENTS	
BORROW TYPE 'A' REQUIRED (INCLUDING UNDERCUT)	183 C.Y.
BORROW TYPE 'F' REQUIRED	634 C.Y.
TOPSOIL REQUIRED	2,303 C.Y.
MATERIAL BALANCE ("+"= EXCESS, "-"= NEED)	
BORROW TYPE 'A'	2,513 C.Y.
BORROW TYPE 'F'	2,512 C.Y.
TOPSOIL	-323 C.Y.
UNSUITABLE MATERIAL	13,655 C.Y.

NOTES:
1) THE VALUES LISTED IN THE EARTHWORK SUMMARY ARE APPROXIMATE AND ARE NOT TO BE USED AS A BASIS OF PAYMENT. THE EARTHWORK SUMMARY IS CONSIDERED FOR INFORMATIONAL PURPOSES ONLY.

2) OTHER SOURCES OF EXCAVATION MAY INCLUDE PIPE TRENCH EXCAVATION, STRUCTURE EXCAVATION, UNDERCUT EXCAVATION, STORMWATER MANAGEMENT POND EXCAVATION, ENVIRONMENTAL SITE EXCAVATION, MAINTENANCE OF TRAFFIC EXCAVATION, ETC.

3) UNSUITABLE MATERIALS INCLUDE UNDERCUT SOILS, BITUMINOUS PAVEMENT, ETC.

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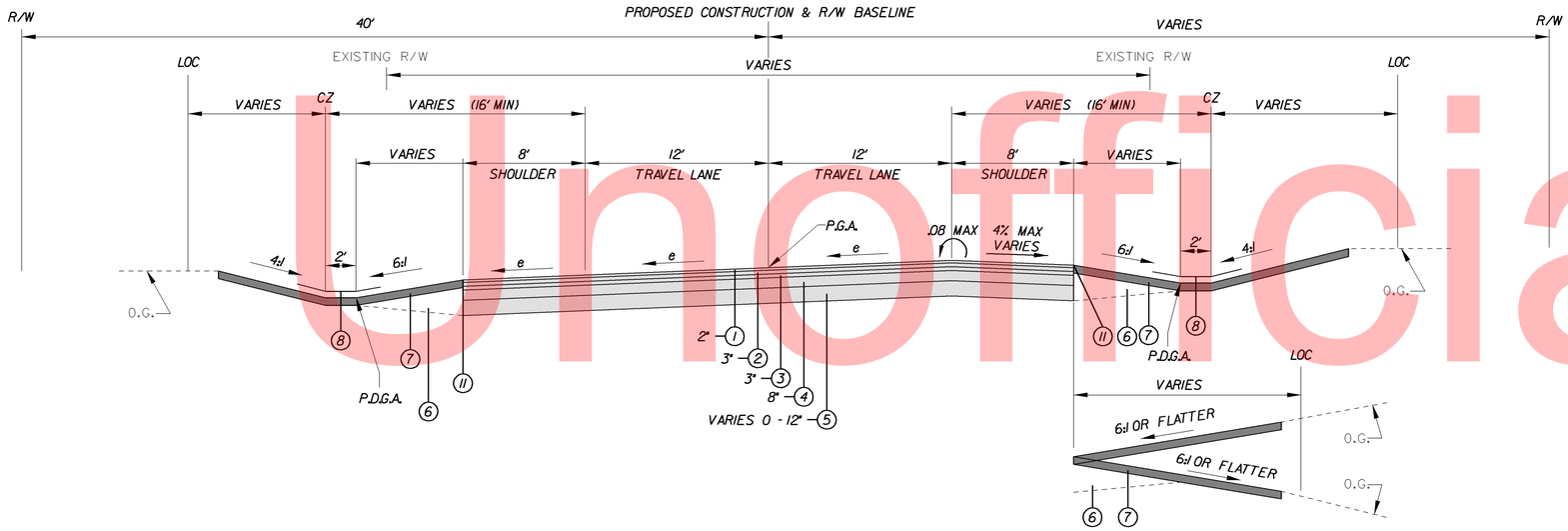
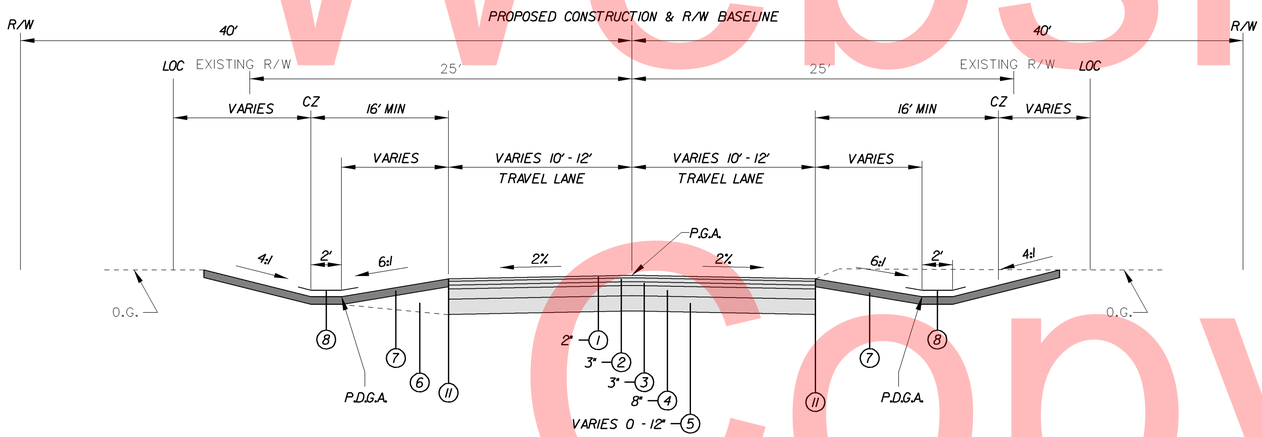


TYPICAL SUPERELEVATED SECTION – CEDAR GROVE ROAD
STATION 200+93.92 TO 208+24.06

STATION 201+50.00 TO 206+40.00

e MAX = 6%
* MAX ROLLOVER = 8%



TYPICAL NORMAL SECTION – CEDAR GROVE ROAD
STATION 200+50.00 TO 200+93.92

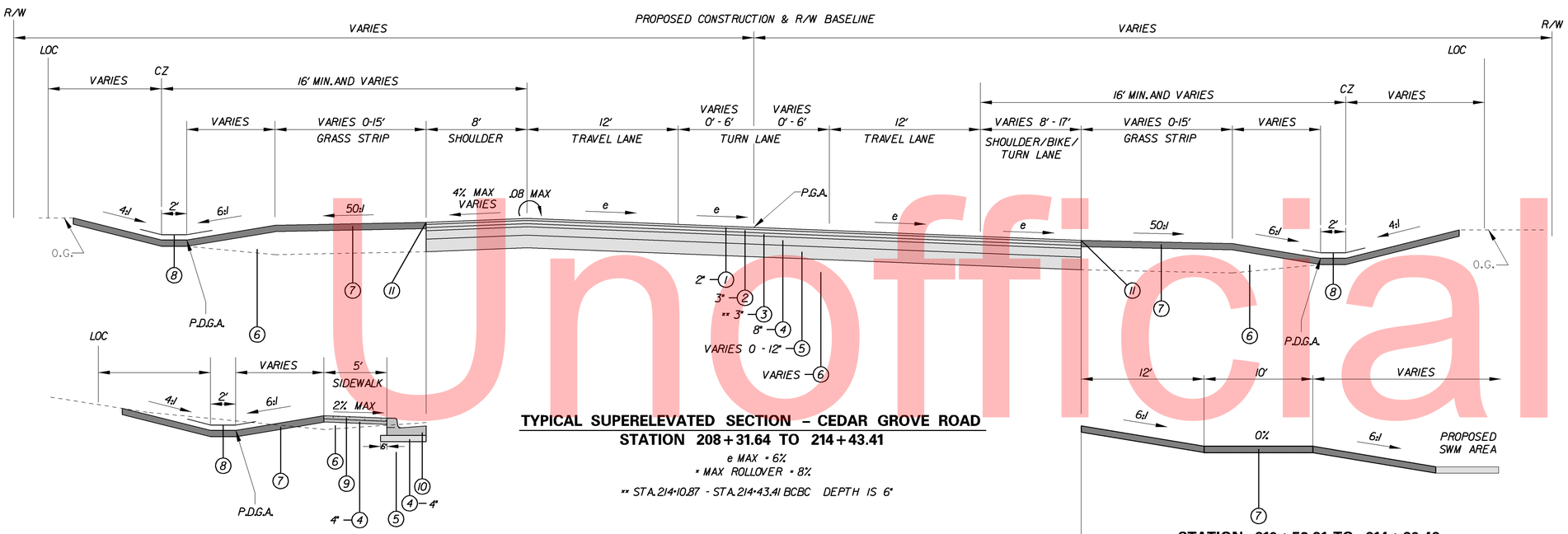
LEGEND

1. ITEM 401830 - WMA,SUPERPAVE,TYPE C HOTMIX, 160 GYRATIONS,PG 70-22 (NON-CARBONATE STONE)
2. ITEM 401813 - WMA,SUPERPAVE,TYPE B HOTMIX, 160 GYRATIONS,PG 70-22
3. ITEM 401819 - WMA,SUPERPAVE,BITUMINOUS CONCRETE BASE COURSE,160 GYRATIONS,PG 64-22
4. ITEM 302007 - GRADED AGGREGATE BASE COURSE,TYPE B
5. ITEM 209001 - BORROW,TYPE A
6. ITEM 209006 - BORROW,TYPE F (IN FILL SECTIONS)
7. ITEM 732002 - TOPSOIL,6" OR, ITEM 733002 - TOPSOILING,6" ITEM 734013 - PERMANENT GRASS SEEDING,DRY GROUND
8. ITEM 735535 - SOIL RETENTION BLANKET MULCH,TYPE 5 MINIMUM OF 1 ROLL WIDTH
9. ITEM 705001 - P.C.C. SIDEWALK,4"
10. ITEM 701020 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER,TYPE 1-8
11. ITEM 401752 - SAFETY EDGE

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	3"	8"

Unofficial Website Copy

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	HSIP, SC, PLANTATION ROAD AT CEDAR GROVE ROAD/POSTAL LANE INTERSECTION IMPROVEMENTS	CONTRACT T200911201 / COUNTY SUSSEX	BRIDGE NO. / DESIGNED BY: / CHECKED BY:	TYPICAL SECTIONS	SHEET NO. 6 / TOTAL SHTS. 51



TYPICAL SUPERELEVATED SECTION – CEDAR GROVE ROAD
STATION 208+31.64 TO 214+43.41

e MAX = 6%
* MAX ROLLOVER = 8%
** STA. 214+10.87 - STA. 214+43.41 BCBC DEPTH IS 6"

STATION 214+20.42 TO 214+43.41

STATION 210+59.31 TO 214+20.42

STATION 214+20.42 TO 214+43.41

LEGEND

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	MINIMUM	MAXIMUM
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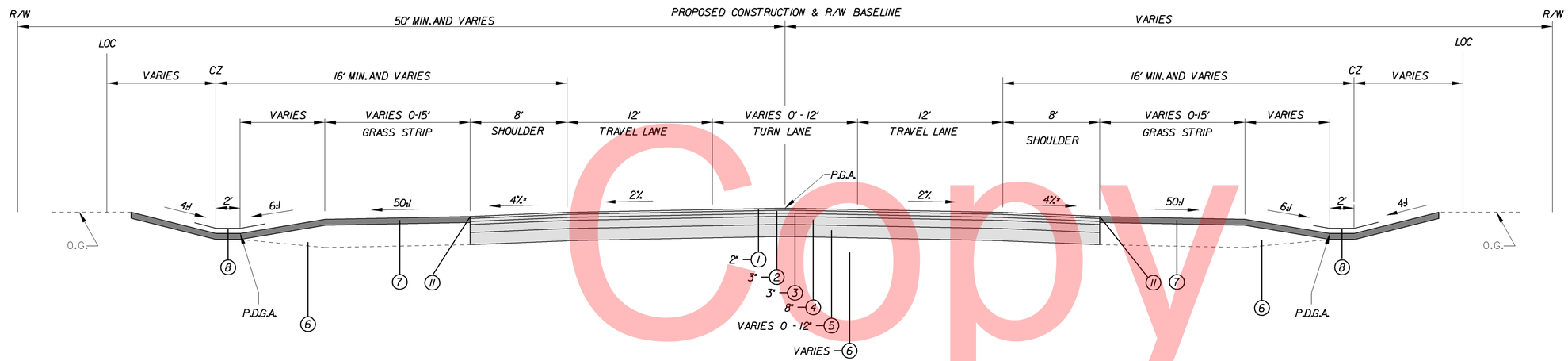
* LATERAL OFFSET IS 4' BEHIND FACE OF CURB AND MINIMUM OF 6' BEHIND FACE OF CURB AT INTERSECTIONS AND DRIVEWAYS



TYPICAL NORMAL SECTION – CEDAR GROVE ROAD
STATION 208+24.06 TO 208+31.64

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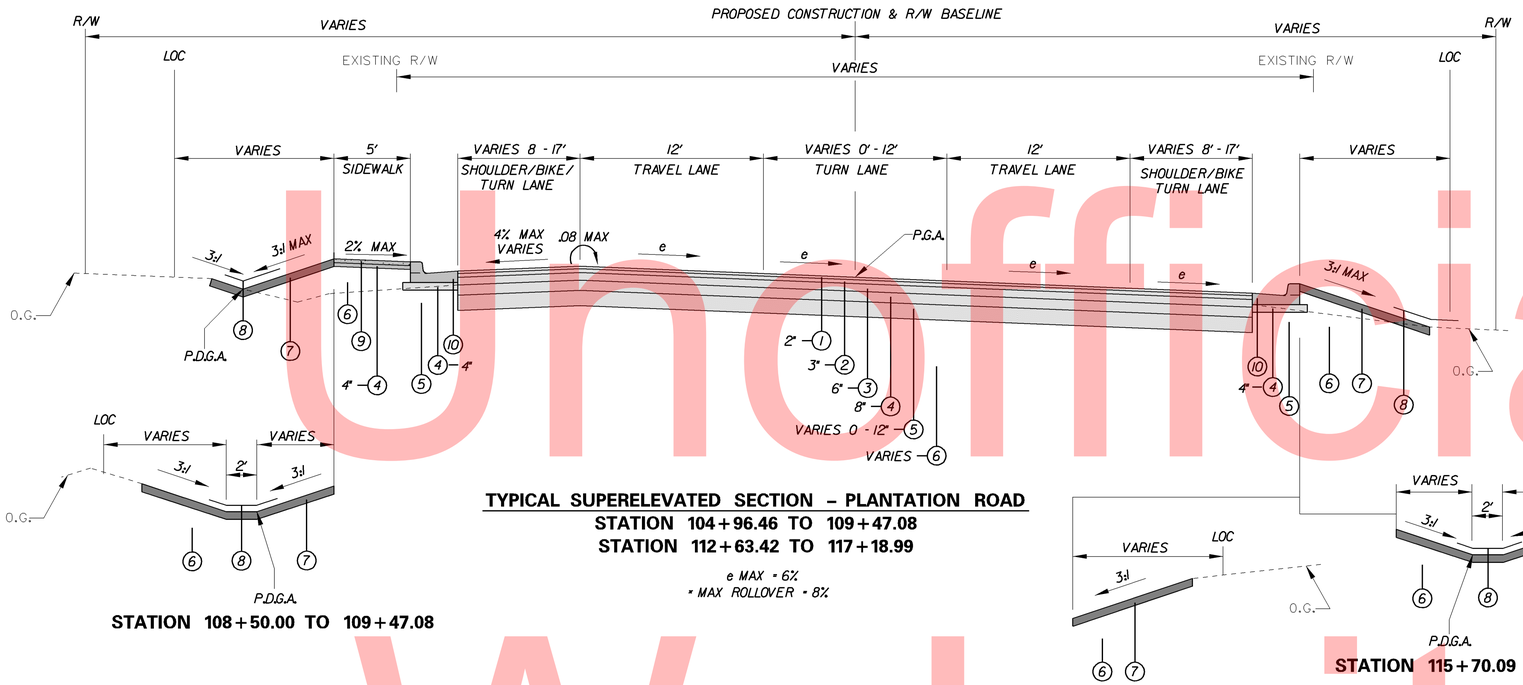
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	HSIP, SC, PLANTATION ROAD AT CEDAR GROVE ROAD/POSTAL LANE INTERSECTION IMPROVEMENTS	CONTRACT T200911201	BRIDGE NO.	TYPICAL SECTIONS
				COUNTY SUSSEX	DESIGNED BY:	SHEET NO. 7
					CHECKED BY:	TOTAL SHTS. 51



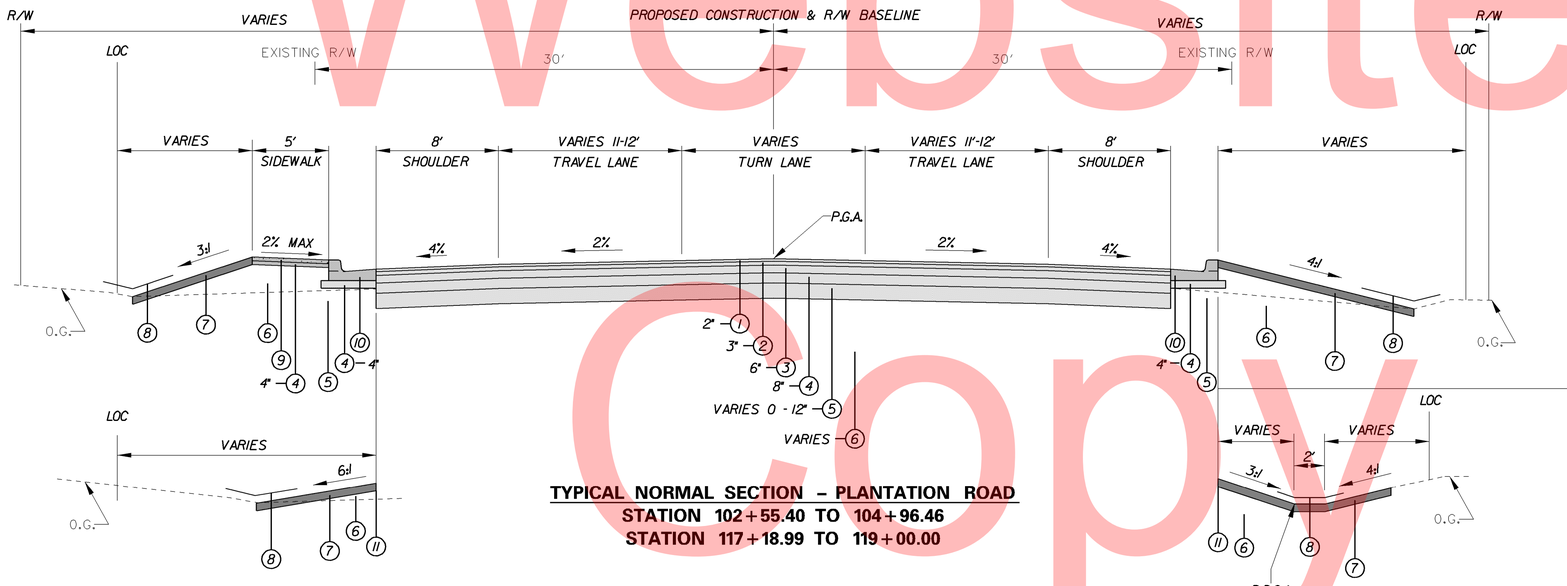
TYPICAL SUPERELEVATED SECTION – PLANTATION ROAD
STATION 104+96.46 TO 109+47.08
STATION 112+63.42 TO 117+18.99

e MAX = 6%
* MAX ROLLOVER = 8%

STATION 108+50.00 TO 109+47.08

STATION 113+95.03 TO 115+70.09

STATION 115+70.09 TO 117+18.99



TYPICAL NORMAL SECTION – PLANTATION ROAD
STATION 102+55.40 TO 104+96.46
STATION 117+18.99 TO 119+00.00

STATION 102+55.40 TO 103+16.18
STATION 118+12.73 TO 119+00.00

STATION 117+18.99 TO 118+12.73

STATION 118+12.73 TO 119+00.00

LEGEND

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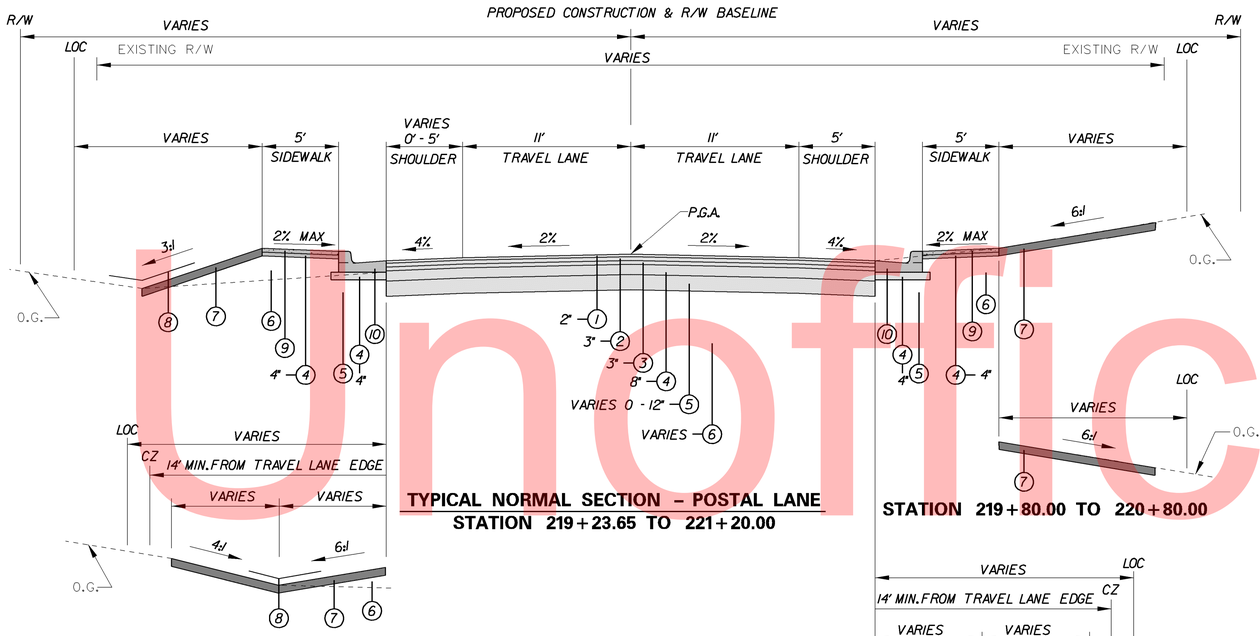
* LATERAL OFFSET IS 4' BEHIND FACE OF CURB AND MINIMUM OF 6' BEHIND FACE OF CURB AT INTERSECTIONS AND DRIVEWAYS

Unofficial Website Copy

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	HSIP, SC, PLANTATION ROAD AT CEDAR GROVE ROAD/POSTAL LANE INTERSECTION IMPROVEMENTS	CONTRACT T200911201	BRIDGE NO.	TYPICAL SECTIONS
				COUNTY SUSSEX	DESIGNED BY:	SHEET NO. 8
					CHECKED BY:	TOTAL SHTS. 51

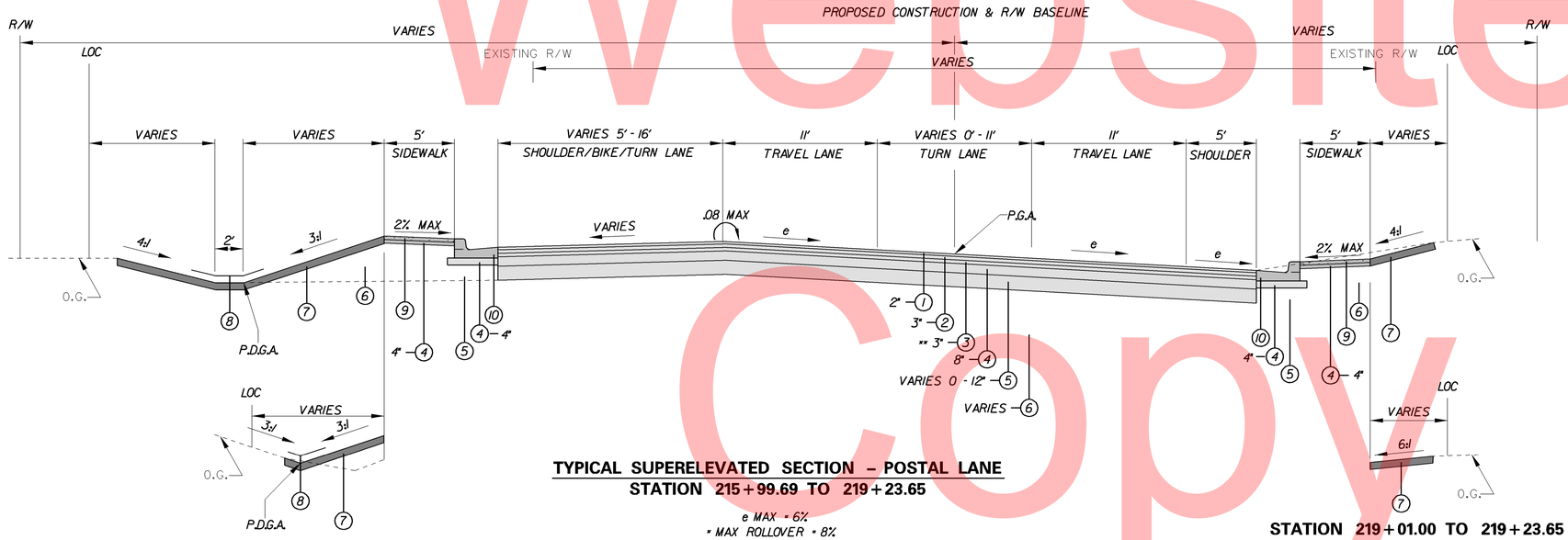


TYPICAL NORMAL SECTION – POSTAL LANE
STATION 219+23.65 TO 221+20.00

STATION 219+80.00 TO 220+80.00

STATION 220+80.00 TO 221+20.00

STATION 220+80.00 TO 221+20.00



TYPICAL SUPERELEVATED SECTION – POSTAL LANE
STATION 215+99.69 TO 219+23.65

e MAX = 6%
* MAX ROLLOVER = 8%

** STA. 215+99.69 - STA. 216+61.40 BCBC DEPTH IS 6"

STATION 216+85.31 TO 219+23.65

STATION 219+01.00 TO 219+23.65

LEGEND

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11. ITEM 401752 - SAFETY EDGE

MATERIAL	LIFT THICKNESS	
	MINIMUM	MAXIMUM
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* LATERAL OFFSET IS 4' BEHIND FACE OF CURB AND MINIMUM OF 6' BEHIND FACE OF CURB AT INTERSECTIONS AND DRIVEWAYS

Unofficial Website Copy

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

NOT TO SCALE

HSIP, SC, PLANTATION ROAD AT CEDAR GROVE ROAD/POSTAL LANE INTERSECTION IMPROVEMENTS

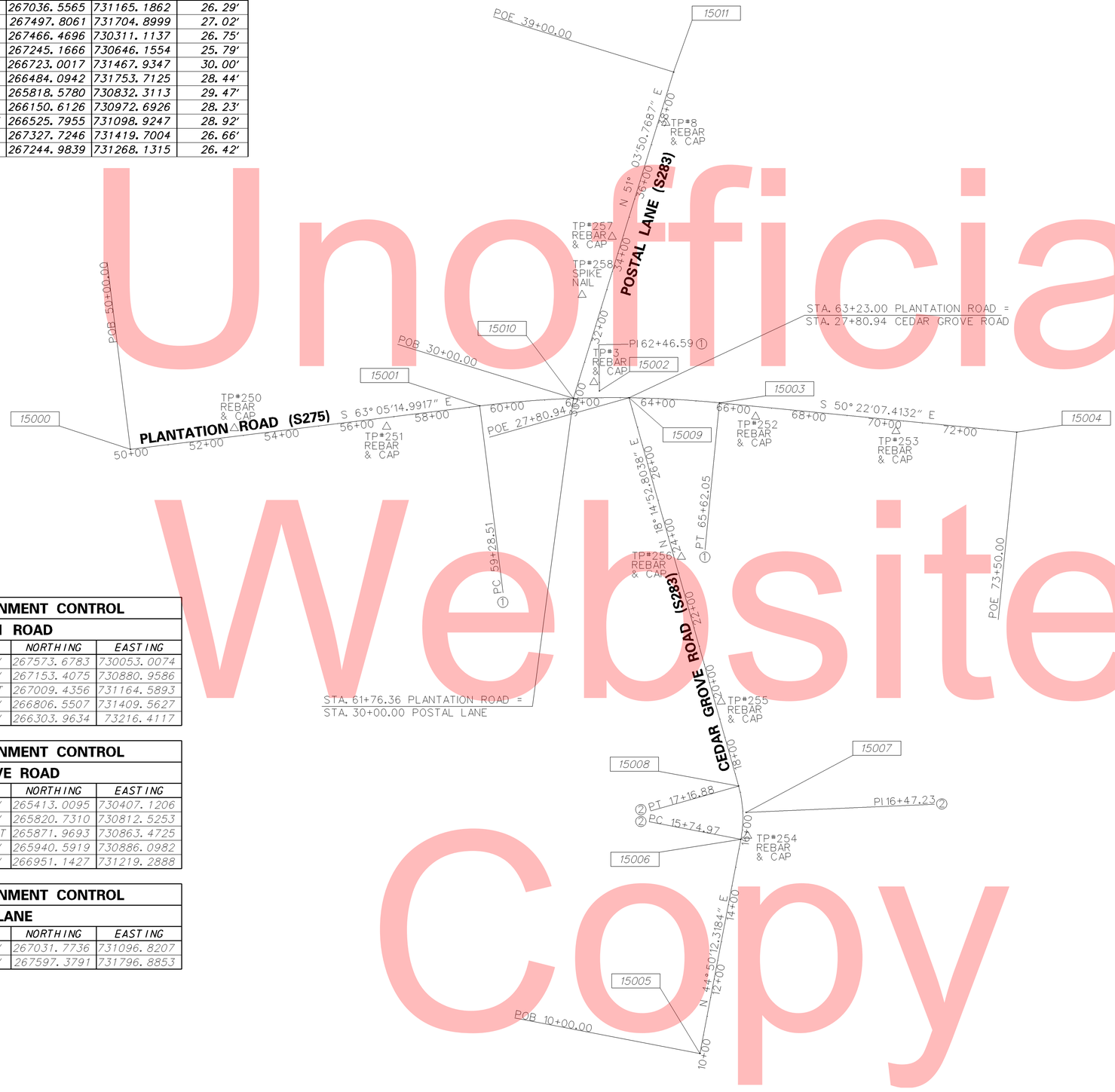
CONTRACT	BRIDGE NO.	
T200911201	DESIGNED BY:	
COUNTY	CHECKED BY:	
SUSSEX		

TYPICAL SECTIONS

SHEET NO.
9
TOTAL SHTS.
51

HORIZONTAL / VERTICAL CONTROL DATA

POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
3	62+31.11	40.71' LT	267036.5565	731165.1862	26.29'
8	37+65.88	19.64' RT	267497.8061	731704.8999	27.02'
250	52+78.68	21.23' LT	267466.4696	730311.1137	26.75'
251	56+77.60	24.45' RT	267245.1666	730646.1554	25.79'
252	66+60.30	27.11' RT	266723.0017	731467.9347	30.00'
253	70+32.78	28.83' RT	266484.0942	731753.7125	28.44'
254	15+86.79	15.79' RT	265818.5780	730832.3113	29.47'
255	19+43.46	16.48' RT	266150.6126	730972.6926	28.23'
256	23+39.30	18.88' RT	266525.7955	731098.9247	28.92'
257	34+37.15	27.29' LT	267327.7246	731419.7004	26.66'
258	32+67.23	58.19' LT	267244.9839	731268.1315	26.42'



CONSTRUCTION ALIGNMENT CONTROL
PLANTATION ROAD

POINT	STATION	OFFSET	NORTHING	EASTING
15000	50+00.00	0.00'	267573.6783	730053.0074
15001	59+28.51	0.00'	267153.4075	730880.9586
15002	62+46.59	17.67' LT	267009.4356	731164.5893
15003	65+62.05	0.00'	266806.5507	731409.5627
15004	73+50.00	0.00'	266303.9634	73216.4117

CONSTRUCTION ALIGNMENT CONTROL
CEDAR GROVE ROAD

POINT	STATION	OFFSET	NORTHING	EASTING
15005	10+00.00	0.00'	265413.0095	730407.1206
15006	15+74.97	0.00'	265820.7310	730812.5253
15007	16+47.23	8.42' RT	265871.9693	730863.4725
15008	17+16.88	0.00'	265940.5919	730886.0982
15009	27+80.94	0.00'	266951.1427	731219.2888

CONSTRUCTION ALIGNMENT CONTROL
POSTAL LANE

POINT	STATION	OFFSET	NORTHING	EASTING
15010	30+00.00	0.00'	267031.7736	731096.8207
15011	39+00.00	0.00'	267597.3791	731796.8853

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 0 150 300 450 FEET

HSIP, SC, PLANTATION ROAD AT CEDAR GROVE RD/POSTAL LANE INTERSECTION IMPROVEMENTS

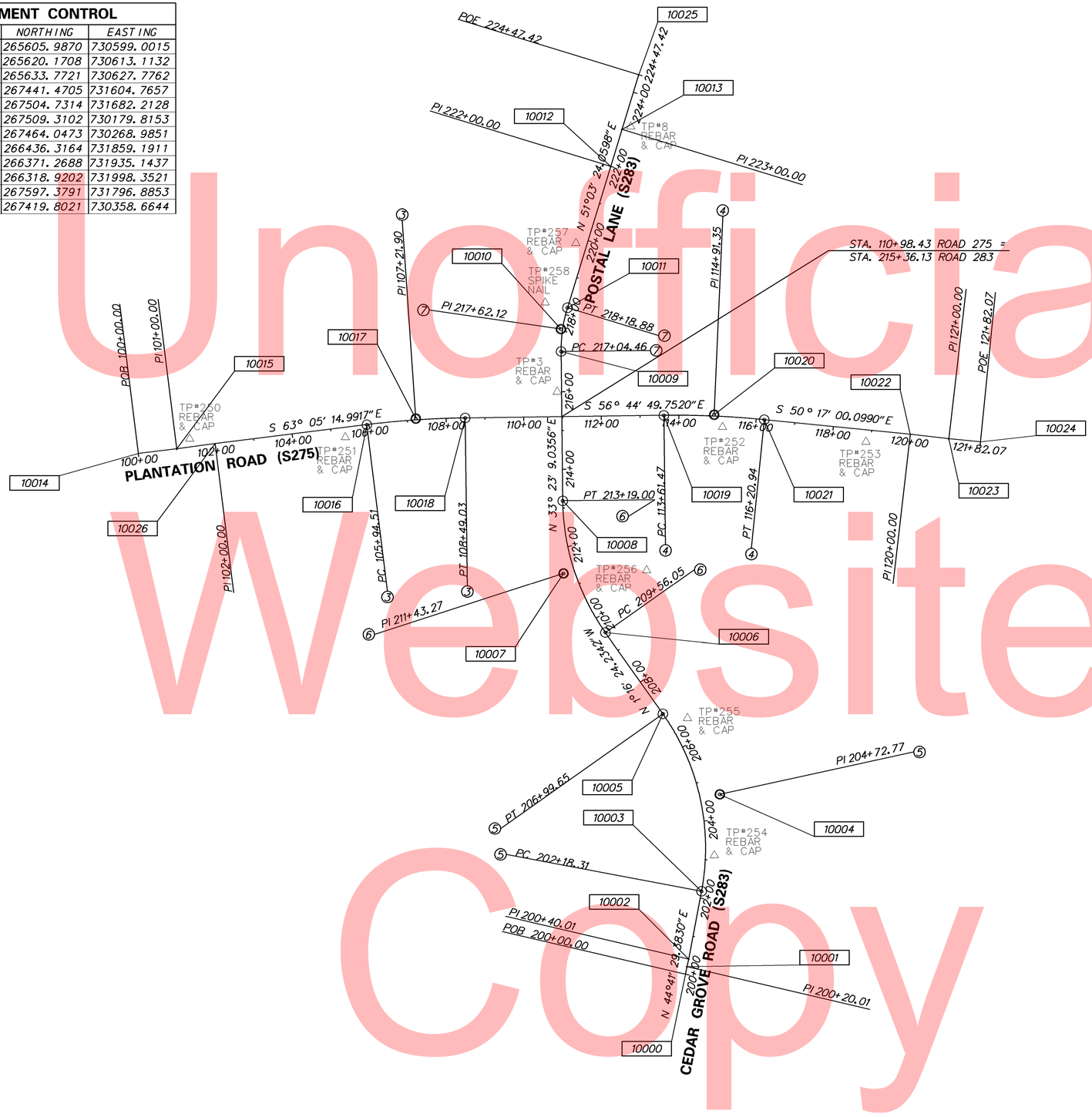
CONTRACT	T200911201
COUNTY	SUSSEX
BRIDGE NO.	N/A
DESIGNED BY:	
CHECKED BY:	

HORIZONTAL AND VERTICAL CONTROL

SHEET NO.	10
TOTAL SHTS.	51

CONSTRUCTION ALIGNMENT CONTROL

POINT	STATION	OFFSET	NORTHING	EASTING
10000	200+00.00	0.00'	265605.9870	730599.0015
10001	200+20.01	0.00'	265620.1708	730613.1132
10002	200+40.01	0.00'	265633.7721	730627.7762
10012	222+00.00	0.00'	267441.4705	731604.7657
10013	223+00.00	0.00'	267504.7314	731682.2128
10014	100+00.00	0.00'	267509.3102	730179.8153
10015	101+00.00	0.00'	267464.0473	730268.9851
10022	120+00.00	0.00'	266436.3164	731859.1911
10023	121+00.00	0.00'	266371.2688	731935.1437
10024	121+82.07	0.00'	266318.9202	731998.3521
10025	224+47.42	0.00'	267597.3791	731796.8853
10026	102+00.00	0.00'	267419.8021	730358.6644



Unofficial Website Copy

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

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 150 300 450 FEET	HSIP, SC, PLANTATION ROAD AT CEDDAR GROVE RD/POSTAL LANE INTERSECTION IMPROVEMENTS	CONTRACT T200911201	BRIDGE NO. N/A	HORIZONTAL AND VERTICAL CONTROL	SHEET NO. 11
				COUNTY SUSSEX	DESIGNED BY:		TOTAL SHTS. 51
					CHECKED BY:		

CIRCULAR CURVE NO. ①

		STATION	NORTHING	EASTING
Element: Circular				
PC	(15001)	59+28.51	267153.4075	730880.9586
PI	(15002)	62+46.59	267009.4356	731164.5893
CC			264608.4992	729589.1546
PT	(15003)	65+62.05	266806.5530	731409.5627
Radius:		2854.0000		
Delta:		12° 43′ 07.6″ Right		
Degree of Curvature(Arc):		2° 00′ 27.2″		
Length:		633.54		
Tangent:		318.08		
Chord:		632.24		
Middle Ordinate:		17.56		
External:		17.67		
Tangent Direction:		S 63° 05′ 15.0″ E		
Radial Direction:		S 26° 54′ 45.0″ W		
Chord Direction:		S 56° 43′ 41.2″ E		
Radial Direction:		S 39° 37′ 52.6″ W		
Tangent Direction:		S 50° 22′ 07.4″ E		

CIRCULAR CURVE NO. ②

		STATION	NORTHING	EASTING
Element: Circular				
PC	(15006)	15+74.97	265820.7310	730812.5253
PI	(15007)	16+47.23	265871.9693	730863.4725
CC			266036.3473	730595.6768
PT	(15008)	17+16.88	265940.5919	730886.0982
Radius:		305.80		
Delta:		26° 35′ 19.5″ Left		
Degree of Curvature(Arc):		18° 44′ 10.9		
Length:		141.91		
Tangent:		72.26		
Chord:		140.64		
Middle Ordinate:		8.19		
External:		8.42		
Tangent Direction:		N 44° 50′ 12.3″ E		
Radial Direction:		S 45° 09′ 47.7″ E		
Chord Direction:		N 31° 32′ 32.6″ E		
Radial Direction:		S 71° 45′ 07.2″ E		
Tangent Direction:		N 18° 14′ 52.8″ E		

CIRCULAR CURVE NO. ③

		STATION	NORTHING	EASTING
Element: Circular				
PC	(10016)	105+94.51	267241.2364	730710.4463
PI	(10017)	107+21.90	267183.5765	730824.0388
CC	(10027)		265190.3292	729669.3989
PT	(10018)	108+49.03	267113.7247	730930.5689
Radius:		2300.0000		
Delta:		6° 20′ 25.2398″ Right		
Degree of Curvature(Arc):		2° 29′ 28.0351″		
Length:		254.5177		
Tangent:		127.3889		
Chord:		254.3879		
Middle Ordinate:		3.5197		
External:		3.5251		
Tangent Direction:		S 63° 05′ 14.9917″ E		
Radial Direction:		S 26° 54′ 45.0083″ W		
Chord Direction:		S 59° 55′ 02.3718″ E		
Radial Direction:		S 33° 15′ 10.2480″ W		
Tangent Direction:		S 56° 44′ 49.7520″ E		

CIRCULAR CURVE NO. ④

		STATION	NORTHING	EASTING
Element: Circular				
PC	(10019)	113+61.47	266832.7325	731359.1067
PI	(10020)	114+91.35	266761.5179	731467.7154
CC	(10028)		264909.3370	730097.9368
PT	(10021)	116+20.94	266678.5293	731567.6166
Radius:		2300.0000		
Delta:		6° 27′ 49.6530″ Right		
Degree of Curvature(Arc):		2° 29′ 28.0351″		
Length:		259.4733		
Tangent:		129.8744		
Chord:		259.3357		
Middle Ordinate:		3.6581		
External:		3.6639		
Tangent Direction:		S 56° 44′ 49.7520″ E		
Radial Direction:		S 33° 15′ 10.2480″ W		
Chord Direction:		S 53° 30′ 54.9255″ E		
Radial Direction:		S 39° 42′ 59.9010″ W		
Tangent Direction:		S 50° 17′ 00.0990″ E		

CIRCULAR CURVE NO. ⑤

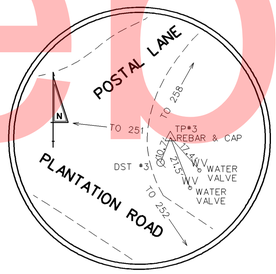
		STATION	NORTHING	EASTING
Element: Circular				
PC	(10003)	202+18.31	265760.5304	730753.1767
PI	(10004)	204+72.77	265941.4326	730932.1413
CC	(10029)		266182.5039	730326.6344
PT	(10005)	206+99.65	266195.8378	730926.4862
Radius:		600.0000		
Delta:		45° 57′ 53.6172″ Left		
Degree of Curvature(Arc):		9° 32′ 57.4677″		
Length:		481.3432		
Tangent:		254.4680		
Chord:		468.5389		
Middle Ordinate:		47.6253		
External:		51.7315		
Tangent Direction:		N 44° 41′ 29.3830″ E		
Radial Direction:		S 45° 18′ 30.6170″ E		
Chord Direction:		N 21° 42′ 32.5744″ E		
Radial Direction:		N 88° 43′ 35.7658″ E		
Tangent Direction:		N 1° 16′ 24.2342″ W		

CIRCULAR CURVE NO. ⑥

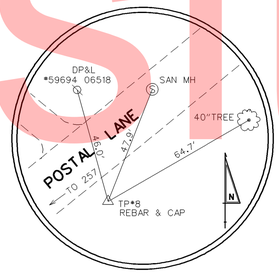
		STATION	NORTHING	EASTING
Element: Circular				
PC	(10006)	209+56.05	266452.1702	730920.7883
PI	(10007)	211+43.27	266639.3435	730916.6277
CC	(10030)		266465.5041	731520.6401
PT	(10008)	213+19.00	266795.6688	731019.6498
Radius:		600.0000		
Delta:		34° 39′ 33.2698″ Right		
Degree of Curvature(Arc):		9° 32′ 57.4677″		
Length:		362.9507		
Tangent:		187.2195		
Chord:		357.4421		
Middle Ordinate:		27.2358		
External:		28.5309		
Tangent Direction:		N 1° 16′ 24.2342″ W		
Radial Direction:		N 88° 43′ 35.7658″ E		
Chord Direction:		N 16° 03′ 22.4007″ E		
Radial Direction:		S 56° 36′ 50.9644″ E		
Tangent Direction:		N 33° 23′ 09.0356″ E		

CIRCULAR CURVE NO. ⑦

		STATION	NORTHING	EASTING
Element: Circular				
PC	(10009)	217+04.46	267117.5156	731231.7546
PI	(10010)	217+62.12	267165.6680	731263.4882
CC	(10031)		266913.3638	731541.5336
PT	(10011)	218+18.88	267201.9158	731308.3411
Radius:		371.0000		
Delta:		17° 40′ 15.0242″ Right		
Degree of Curvature(Arc):		15° 26′ 36.9828″		
Length:		114.4217		
Tangent:		57.6687		
Chord:		113.9688		
Middle Ordinate:		4.4024		
External:		4.4553		
Tangent Direction:		N 33° 23′ 09.0356″ E		
Radial Direction:		S 56° 36′ 50.9644″ E		
Chord Direction:		N 42° 13′ 16.5477″ E		
Radial Direction:		S 38° 56′ 35.9402″ E		
Tangent Direction:		N 51° 03′ 24.0598″ E		



TRAVERSE POINT #3



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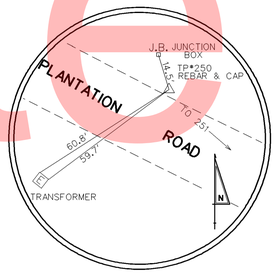

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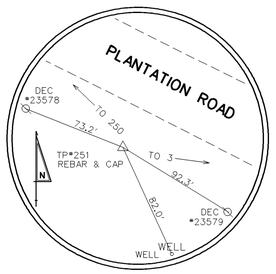

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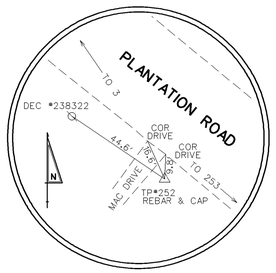

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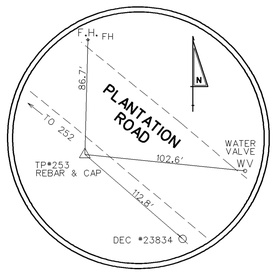

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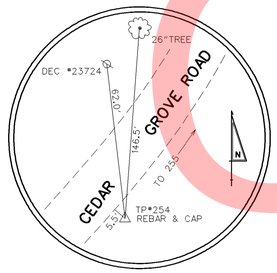

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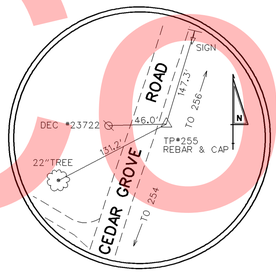

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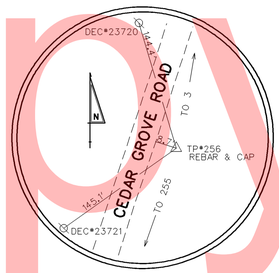
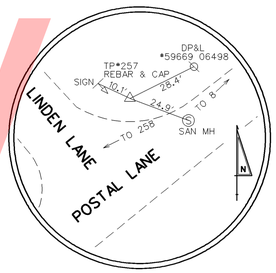


TRAVERSE POINT #256



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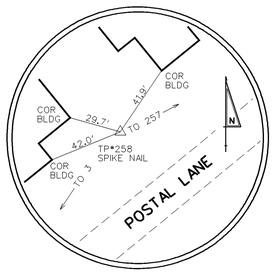

TRAVERSE POINT #258

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	HSIP, SC, PLANTATION ROAD AT CEDAR GROVE RD/POSTAL LANE INTERSECTION IMPROVEMENTS	CONTRACT T200911201	BRIDGE NO. N/A	HORIZONTAL AND VERTICAL CONTROL
				COUNTY SUSSEX	DESIGNED BY:	SHEET NO. 12
					CHECKED BY:	TOTAL SHTS. 51

DRAINAGE PIPE SCHEDULE

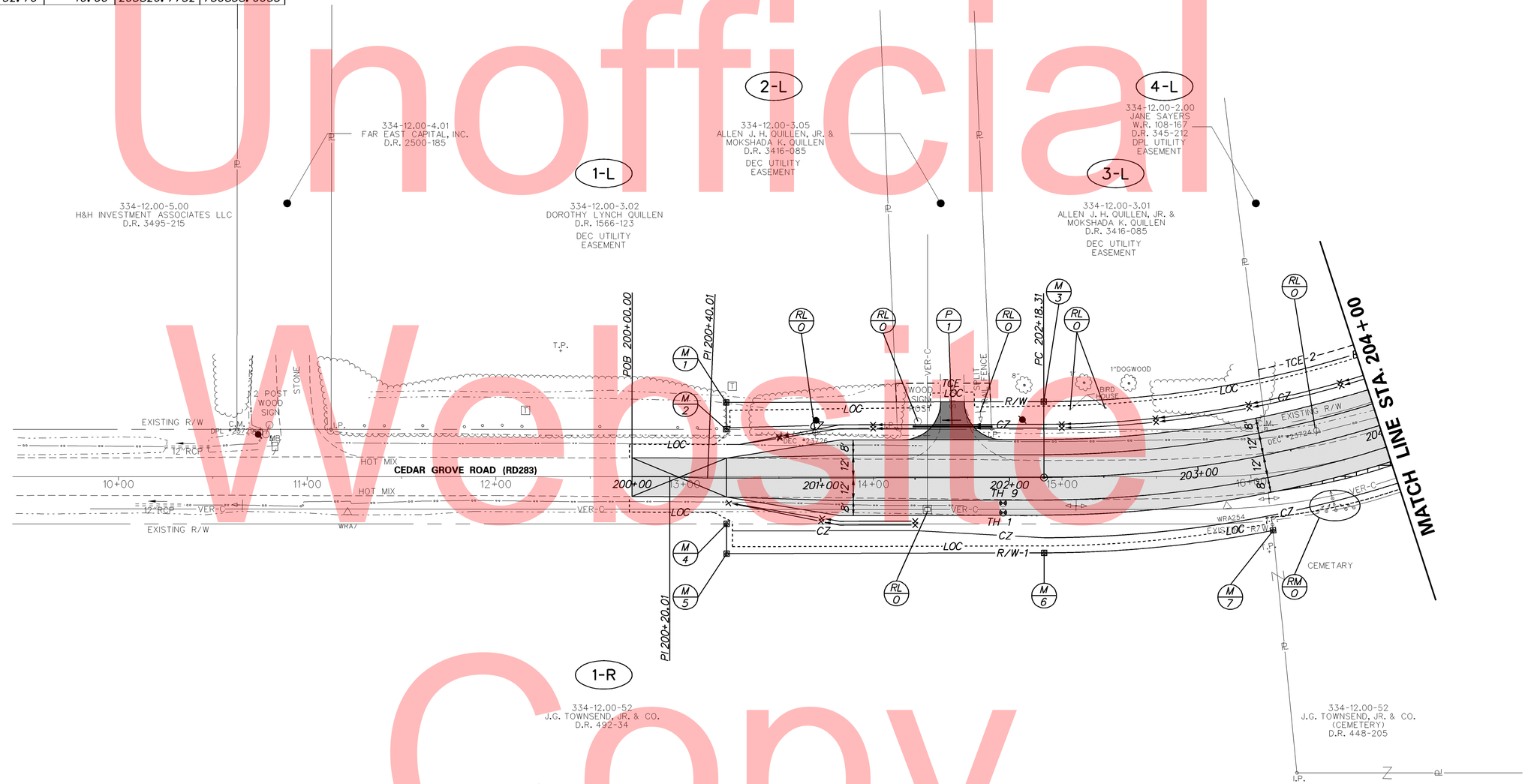
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
1	12"RCP	IV	42.16'	0.002	28.11	28.02

RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
1	CONCRETE	200+50.00	-25.79	265659.0179	730616.4760
2	CONCRETE	200+50.00	-40.00	265669.0128	730606.3730
3	CONCRETE	202+18.31	-40.00	265788.6619	730724.7405
4	CONCRETE	200+50.00	24.21	265623.8535	730652.0216
5	CONCRETE	200+50.00	40.00	265612.7496	730663.2453
6	CONCRETE	202+18.31	40.00	265732.3988	730781.6129
7	CONCRETE	203+32.70	40.00	265826.7752	730858.6655

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	NORTHING	EASTING	GRND EL.	COVER	O.D. & MATERIAL
TH1	VER	201+96.61	18.56	265732.05	730751.11	29.04'	2.79'	1 1/2" TELE. CABLE
TH1	VER	201+96.61	18.56	265732.05	730751.11	29.04'	1.04'	1/4" TELE. CABLE
TH9	VER	201+96.61	13.51	265735.60	730747.52	29.13'	2.88'	1" TELE. CABLE



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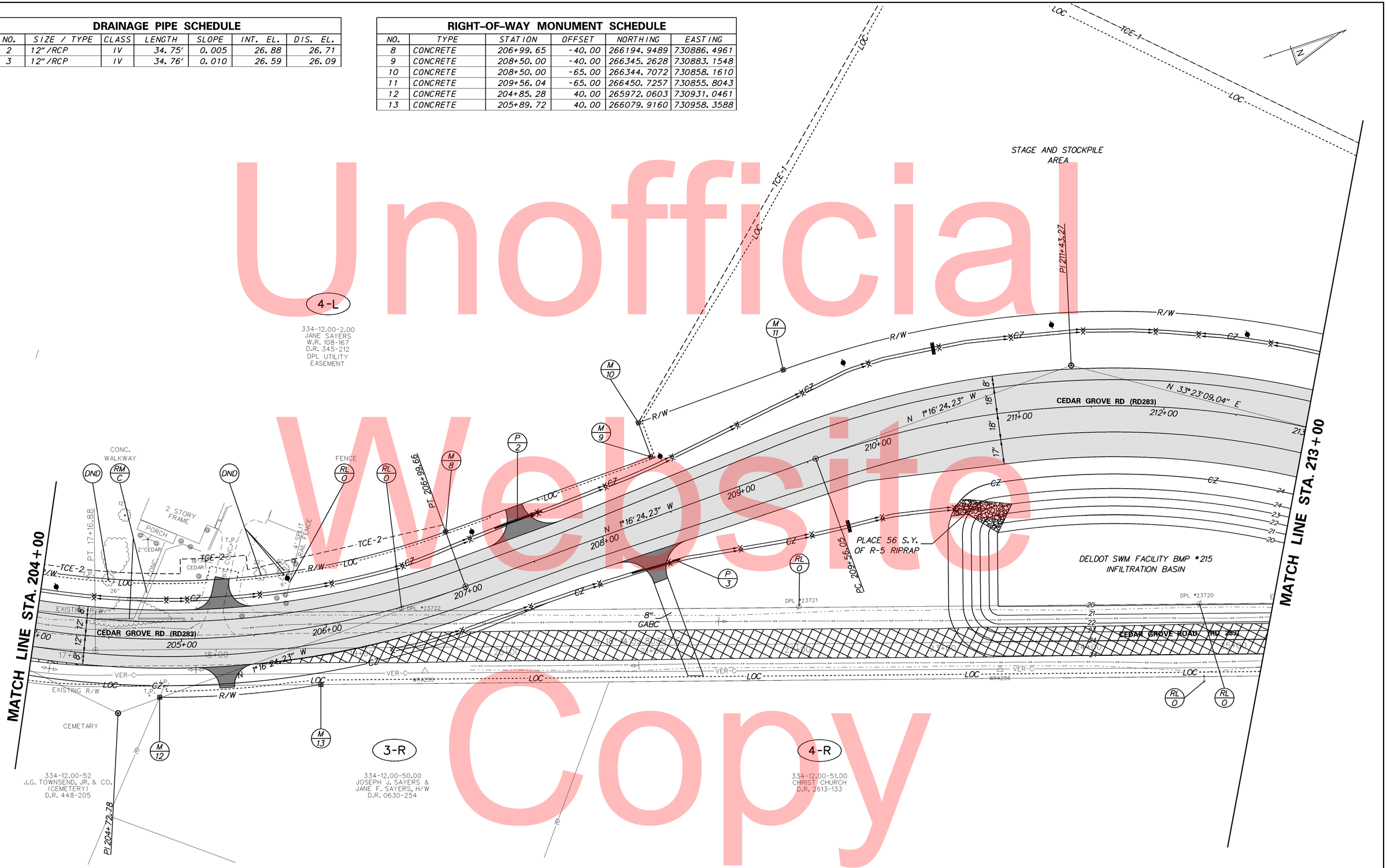
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP, SC, PLANTATION ROAD AT CEDAR GROVE ROAD/POSTAL LANE INTERSECTION IMPROVEMENTS	CONTRACT T200911201	BRIDGE NO. N/A	CONSTRUCTION PLAN	SHEET NO. 13
				COUNTY SUSSEX	DESIGNED BY:		TOTAL SHTS. 51
					CHECKED BY:		

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
2	12"/RCP	IV	34.75'	0.005	26.88	26.71
3	12"/RCP	IV	34.76'	0.010	26.59	26.09

RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
8	CONCRETE	206+99.65	-40.00	266194.9489	730886.4961
9	CONCRETE	208+50.00	-40.00	266345.2628	730883.1548
10	CONCRETE	208+50.00	-65.00	266344.7072	730858.1610
11	CONCRETE	209+56.04	-65.00	266450.7257	730855.8043
12	CONCRETE	204+85.28	40.00	265972.0603	730931.0461
13	CONCRETE	205+89.72	40.00	266079.9160	730958.3588



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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP, SC, PLANTATION ROAD AT CEDAR GROVE ROAD/POSTAL LANE INTERSECTION IMPROVEMENTS	CONTRACT T200911201	BRIDGE NO. N/A	CONSTRUCTION PLAN	SHEET NO. 14
				COUNTY SUSSEX	DESIGNED BY:		TOTAL SHTS. 51
					CHECKED BY:		

RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
14	CONCRETE	213+19.00	-65.00	266831.4363	730965.3756
15	CONCRETE	214+10.00	-65.00	266907.4181	731015.4495
16	CONCRETE	216+59.16	-64.93	267115.4188	731152.6141
17	CONCRETE	217+20.52	-55.00	267162.9587	731196.3113
18	CONCRETE	217+62.12	-55.00	267200.0197	731226.4076
19	CONCRETE	218+89.12	-40.00	267277.1771	731337.8309
20	CONCRETE	219+12.27	-55.57	267303.8394	731346.0468
21	CONCRETE	112+33.27	81.26	266835.0714	731207.3425
22	CONCRETE	112+60.00	45.00	266850.7413	731249.5751

FLARED END SECTION SCHEDULE

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
1	24" RCP	0.005	NO
2	21" RCP	0.0032	NO

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
1	109+79.44	++	72" x 48"	1	+	21.45
2	109+20.72	++	48" x 30"	1	+	21.83
3	109+81.16	++	72" x 48"	1	+	21.79
4	112+11.31	++	72" x 48"	1	+	22.00
5	112+11.40	++	48" x 48"	1	+	22.21
6	109+79.55	-47.21	34" x 24"	1	25.00	22.04
7	110+36.30	++	48" x 30"	1	+	22.54
8	111+63.66	++	48" x 48"	1	+	22.36
9	216+15.40	++	48" x 30"	1	+	22.52
10	216+52.25	++	48" x 30"	1	+	23.21
11	217+48.24	++	48" x 30"	1	+	22.90
12	218+49.91	++	34" x 24"	1	+	24.57

\+ MATCH FLOWLINE OF PROPOSED CURB AND GUTTER

++ MATCH PROPOSED CURB LINE

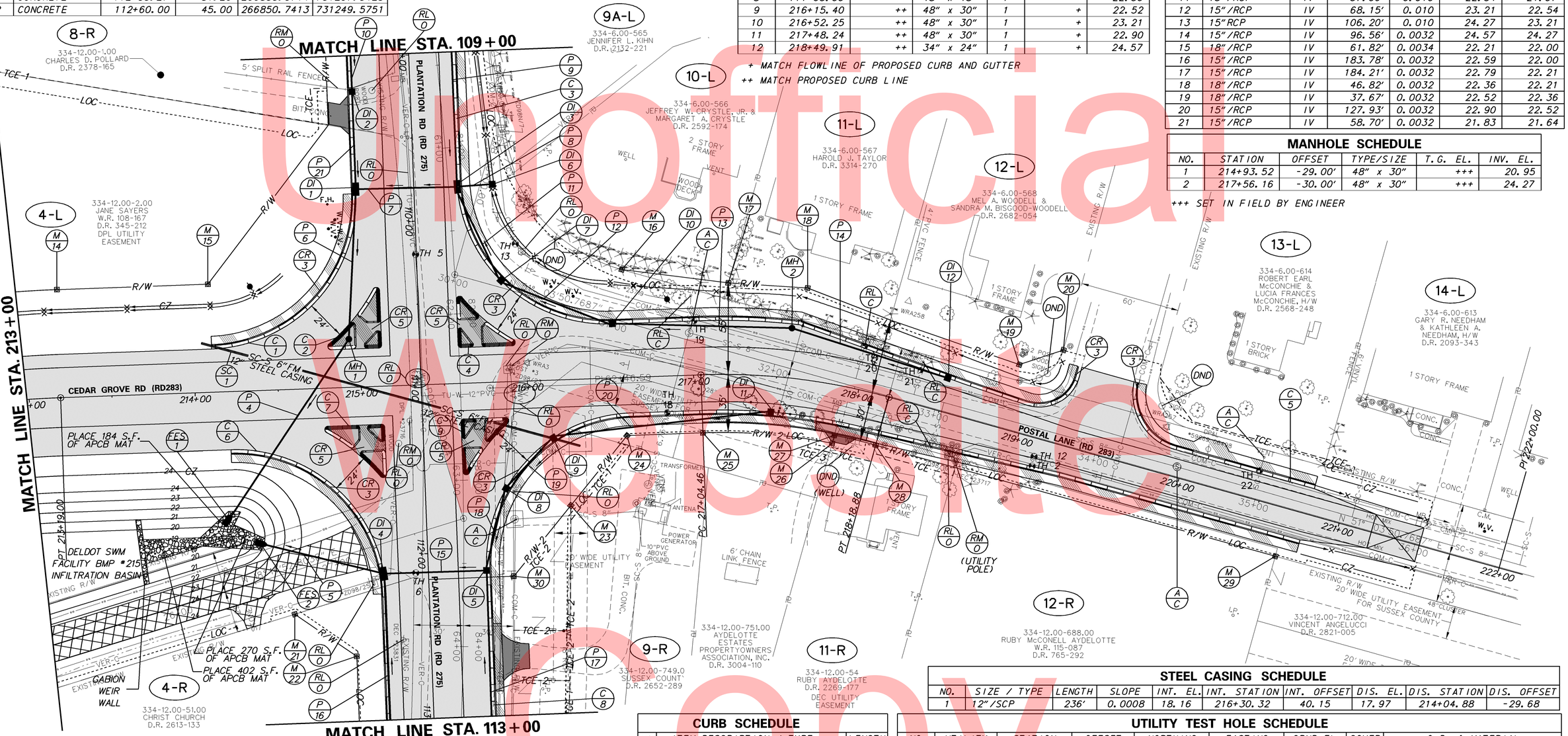
DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
4	24"/RCP	IV	127.00'	0.005	20.95	20.29
5	21"/RCP	IV	76.34'	0.0032	22.00	21.76
6	24"/RCP	IV	90.22'	0.005	21.45	21.05
7	18"/RCP	IV	60.32'	0.006	21.79	21.45
8	15"/RCP	IV	18.32'	0.004	22.04	21.97
9	15'/RCP	IV	177.75'	0.0032	22.35	21.79
10	15"/RCP	IV	120.68'	0.0032	22.21	21.83
11	15"/RCP	IV	57.00'	0.010	22.54	21.97
12	15"/RCP	IV	68.15'	0.010	23.21	22.54
13	15"RCP	IV	106.20'	0.010	24.27	23.21
14	15"/RCP	IV	96.56'	0.0032	24.57	24.27
15	18"/RCP	IV	61.82'	0.0034	22.21	22.00
16	15"/RCP	IV	183.78'	0.0032	22.59	22.00
17	15"/RCP	IV	184.21'	0.0032	22.79	22.21
18	18"/RCP	IV	46.82'	0.0032	22.36	22.21
19	18"/RCP	IV	37.67'	0.0032	22.52	22.36
20	15"/RCP	IV	127.93'	0.0032	22.90	22.52
21	15"/RCP	IV	58.70'	0.0032	21.83	21.64

MANHOLE SCHEDULE

NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
1	214+93.52	-29.00'	48" x 30"	+++	20.95
2	217+56.16	-30.00'	48" x 30"	+++	24.27

+++ SET IN FIELD BY ENGINEER



STEEL CASING SCHEDULE

NO.	SIZE / TYPE	LENGTH	SLOPE	INT. EL.	INT. STATION	INT. OFFSET	DIS. EL.	DIS. STATION	DIS. OFFSET
1	12"/SCP	236'	0.0008	18.16	216+30.32	40.15	17.97	214+04.88	-29.68

RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
23	CONCRETE	216+23.44	75.63	267008.2530	731250.3302
24	CONCRETE	216+58.72	35.00	267060.0657	731235.8107
25	CONCRETE	217+04.46	35.00	267098.2560	731260.9790
26	CONCRETE	217+90.71	35.00	267157.9252	731311.1302
27	CONCRETE	217+91.12	30.00	267161.8212	731307.9744
28	CONCRETE	218+18.88	30.00	267178.5827	731327.1976
29	CONCRETE	220+68.39	29.45	267335.8439	731520.9129
30	CONCRETE	112+15.51	-51.16	266955.5548	731265.0979

NOTES:

1. OFFSETS SHOWN IN TABLE WITH A MINUS SIGN ARE TO THE LEFT OF CONSTRUCTION AND R//W BASELINE
2. SEWER CLEANOUT RELOCATIONS ARE TO BE 1' BEHIND SIDEWALK

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	PCC CURB AND GUTTER, TYPE 1-8	224'
2	PCC CURB, TYPE 2	117'
3	PCC CURB AND GUTTER, TYPE 1-8	525'
4	PCC CURB, TYPE 2	111'
5	PCC CURB AND GUTTER, TYPE 1-8	143'
6	PCC CURB AND GUTTER, TYPE 1-8	219'
7	PCC CURB, TYPE 2	116'
8	PCC CURB AND GUTTER, TYPE 1-8	648'
9	PCC CURB, TYPE 2	106'

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	NORTHING	EASTING	GRND EL.	COVER	O.D. & MATERIAL
TH2	VER	219+12.95	16.62	267248.12	731391.95	28.29'	2.51'	1 3/4" TELE. CABLE
TH5	VER	110+19.95	0.43	267019.64	731073.27	26.31'	2.08'	2 1/4" PLAS. TELE F/O COND
TH6	VER	112+11.30	7.60	266908.72	731229.35	27.16'	4.41'	2 1/4" PLAS. TELE F/O COND
TH12	COM	219+12.57	10.71	267252.48	731387.94	27.84'	1.73'	(2) 1" CATV CABLES
TH13	COM	110+15.92	-59.70	267072.14	731102.87	25.61'	2.55'	2 1/4" PLAS. CATV CONDUIT
TH18	SC-S	216+83.54	22.15	267087.86	731238.74	26.95'	4.58'	6 3/4" PLAS SFM
TH19	SC-S	217+01.73	-32.55	267133.15	731203.07	26.32'	3.97'	6 3/4" PLAS SAN
TH20	SC-S	217+98.16	-26.40	267208.02	731274.89	26.67'	3.95'	6 3/4" PLAS SAN
TH21	SC-S	218+32.83	-20.85	267226.90	731306.08	26.70'	4.31'	6 3/4" PLAS SAN
TH22	SC-S	220+45.72	-17.91	267358.43	731473.52	26.55'	4.18'	6 3/4" PLAS SAN

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE
0 30 60 90
FEET

HSIP, SC, PLANTATION ROAD AT CEDAR GROVE RD/POSTAL LANE INTERSECTION IMPROVEMENTS

CONTRACT	T200911201
COUNTY	SUSSEX
BRIDGE NO.	N/A
DESIGNED BY:	
CHECKED BY:	

CONSTRUCTION PLAN

SHEET NO.	15
TOTAL SHTS.	51

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RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
31	CONCRETE	104+06.71	-35.00	267357.4472	730558.8321
32	CONCRETE	104+80.61	-35.00	267324.0015	730624.7260
33	CONCRETE	104+80.61	-40.00	267328.4582	730626.9883
34	CONCRETE	104+92.12	45.00	267247.4525	730598.7812
35	CONCRETE	105+94.51	45.00	267201.1100	730690.0780
36	CONCRETE	105+94.51	-40.00	267276.9044	730728.5515
37	CONCRETE	108+21.64	-40.00	267162.3155	730929.1092
38	CONCRETE	108+49.03	50.00	267071.9118	730903.1522

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
13	103+98.95	++	34" x 24"	1	+	23.49
14	104+98.52	++	34" x 24"	1	+	23.31
15	105+50.94	++	34" x 24"	1	+	23.01
16	106+47.40	-44.65'	17 5/8" x 11 5/8"	5	24.12	21.95
17	107+00.38	++	48" x 30"	1	+	22.53
18	107+99.10	++	48" x 30"	1	+	22.35
19	107+99.15	++	48" x 30"	1	+	22.21

+ MATCH FLOWLINE OF PROPOSED CURB AND GUTTER

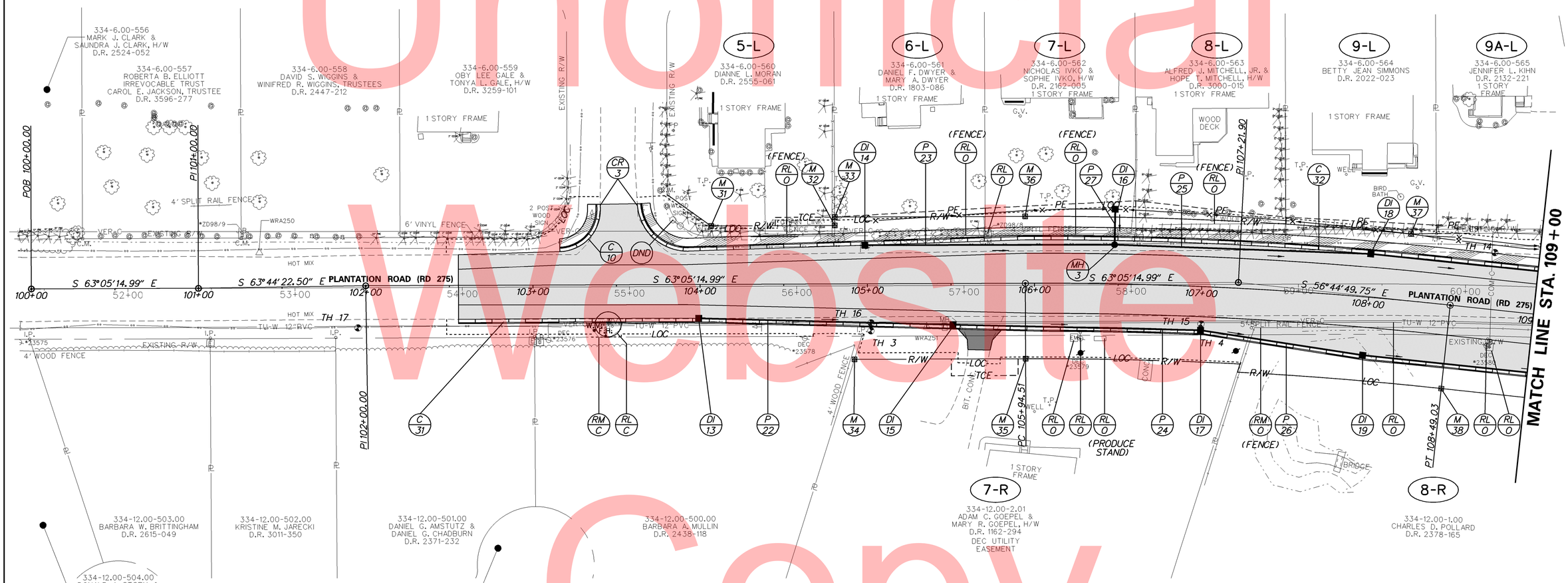
DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
22	15"/RCP	IV	148.00'	0.0032	23.49	23.01
23	15"/RCP	IV	148.00'	0.0032	23.31	22.83
24	15"/RCP	IV	148.00'	0.0032	23.01	22.53
25	15"/RCP	IV	151.25'	0.0032	22.83	22.35
26	15"/RCP	IV	99.00'	0.0032	22.53	22.21
27	8"/PVC	N/A	22.00'	0.0055	22.95	22.83

MANHOLE SCHEDULE

NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
3	106+47.40	-23.50'	48" x 30"	+++	22.83

+++ SET IN FIELD BY ENGINEER



UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	NORTHING	EASTING	GRND EL.	COVER	O.D. & MATERIAL
TH3	VER	105+02.02	27.93	267258.20	730615.33	25.24'	2.35'	2 1/4" PLAS. TELE F/O COND
TH3	VER	105+02.02	27.93	267258.20	730615.33	25.24'	1.99'	1/4" TELE. CABLE
TH4	VER	107+00.28	26.09	267168.52	730790.76	24.86'	2.28'	2 1/4" PLAS. TELE F/O COND
TH4	VER	107+00.28	26.09	267168.52	730790.76	24.86	1.94'	1/4" TELE. CABLE
TH14	COM	108+72.26	-34.19	267129.58	730968.75	26.38'	3.15'	2 1/4" PLAS. CATV CONDUIT
TH15	TU	107+00.48	22.20	267171.80	730792.85	25.36'	4.11'	12 3/4" PLAS WATER LINE
TH16	TU	105+02.13	23.23	267262.33	730617.56	25.64'	3.36'	12 3/4" PLAS WATER LINE
TH17	TU	101+94.98	24.97	267399.63	730343.11	26.10'	2.95'	12 3/4" PLAS WATER LINE

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
10	PCC CURB AND GUTTER, TYPE 1-8	44'
31	PCC CURB AND GUTTER, TYPE 1-8	646'
32	PCC CURB AND GUTTER, TYPE 1-8	555'

NOTE:

OFFSETS SHOWN IN TABLE WITH A MINUS SIGN ARE TO THE LEFT OF CONSTRUCTION AND R//W BASELINE

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

HSIP, SC, PLANTATION ROAD AT CEDAR GROVE RD/POSTAL LANE INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T200911201	DESIGNED BY:	
COUNTY	CHECKED BY:	
SUSSEX		

CONSTRUCTION PLAN

SHEET NO.
16
TOTAL SHTS.
51

Unofficial Website Copy

RIGHT–OF–WAY MONUMENT SCHEDULE

NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
39	CAPPED REBAR	113+54.75	-42.25	266871.7491	731376.6546
40	CONCRETE	114+91.35	-42.25	266792.4559	731490.7750
41	CONCRETE	114+91.35	-35.00	266786.6271	731486.4637
42	CONCRETE	116+20.94	-35.00	266705.4518	731589.9813
43	CONCRETE	119+50.00	-35.00	266495.1885	731843.0950
44	CONCRETE	119+50.00	-28.44	266490.1458	731838.9060
45	CONCRETE	113+61.47	45.00	266795.1009	731334.4317
46	CONCRETE	116+20.94	45.00	266643.9147	731538.8620
47	CONCRETE	119+50.00	45.00	266433.6514	731791.9757
48	CONCRETE	119+49.86	31.73	266443.9529	731800.3479

DRAINAGE INLET SCHEDULE

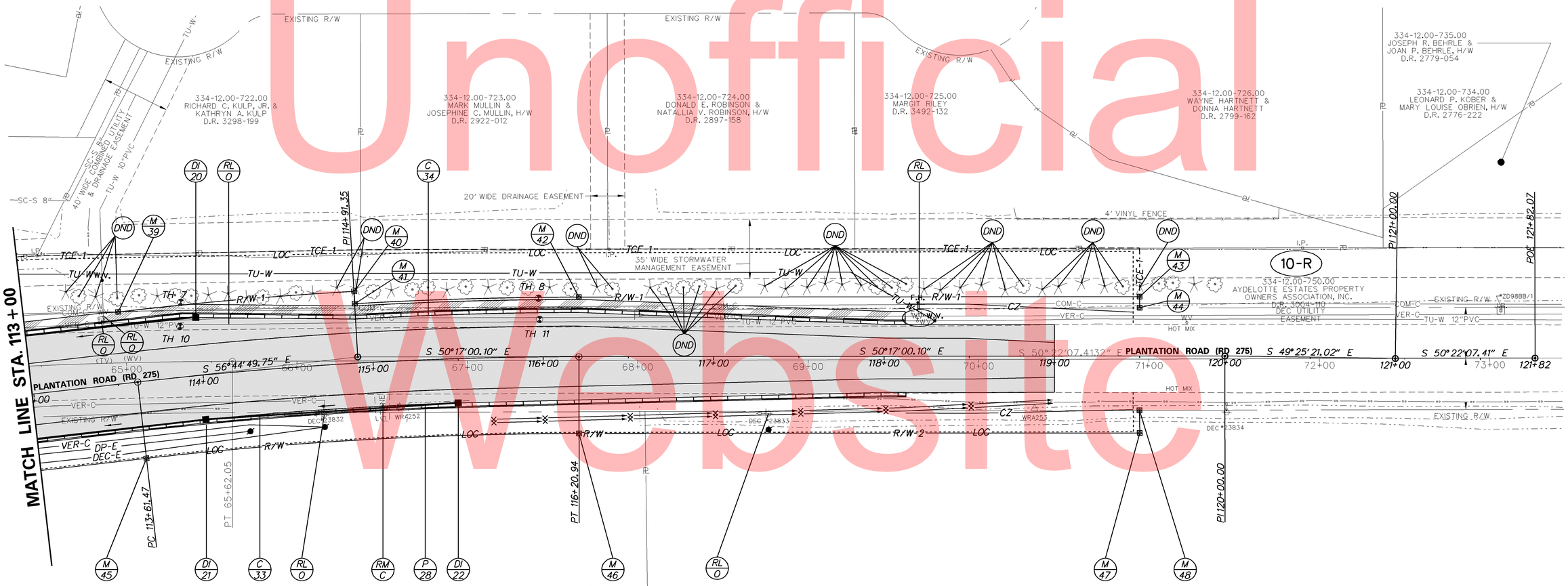
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
20	113+99.24	++	48" x 30"	1	+	22.79
21	113+99.08	++	34" x 24"	1	+	22.59
22	115+49.17	++	34" x 24"	1	+	23.05

\+ MATCH FLOWLINE OF PROPOSED CURB AND GUTTER

++ MATCH PROPOSED CURB LINE

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
28	15"/RCP	IV	144.28'	0.0032	23.05	22.59



4-R

334-12.00-51.00
CHRIST CHURCH
D.R. 2613-133

1-R

334-12.00-52
J.G. TOWNSEND, JR. & CO.
D.R. 492-34
DEC UTILITY EASEMENT

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
33	PCC CURB AND GUTTER, TYPE 1-8	510'
34	PCC CURB AND GUTTER, TYPE 1-8	518'

NOTE:

OFFSETS SHOWN IN TABLE WITH A MINUS SIGN ARE TO THE LEFT OF CONSTRUCTION AND R//W BASELINE

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	NORTHING	EASTING	GRND EL.	COVER	O.D. & MATERIAL
TH7	VER	113+91.34	-43.93	266852.61	731408.54	27.69'	1.84'	1" TELE. CABLE
TH8	VER	115+97.58	-34.58	266720.19	731571.39	28.86'	2.01'	1" TELE. CABLE
TH10	COM	113+89.50	-29.91	266842.03	731399.15	28.54'	2.84'	2 1/4" PLAS. CATV CONDUIT
TH11	COM	115+98.07	-22.12	266710.22	731563.91	29.52'	3.20'	2 1/4" PLAS. CATV CONDUIT

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

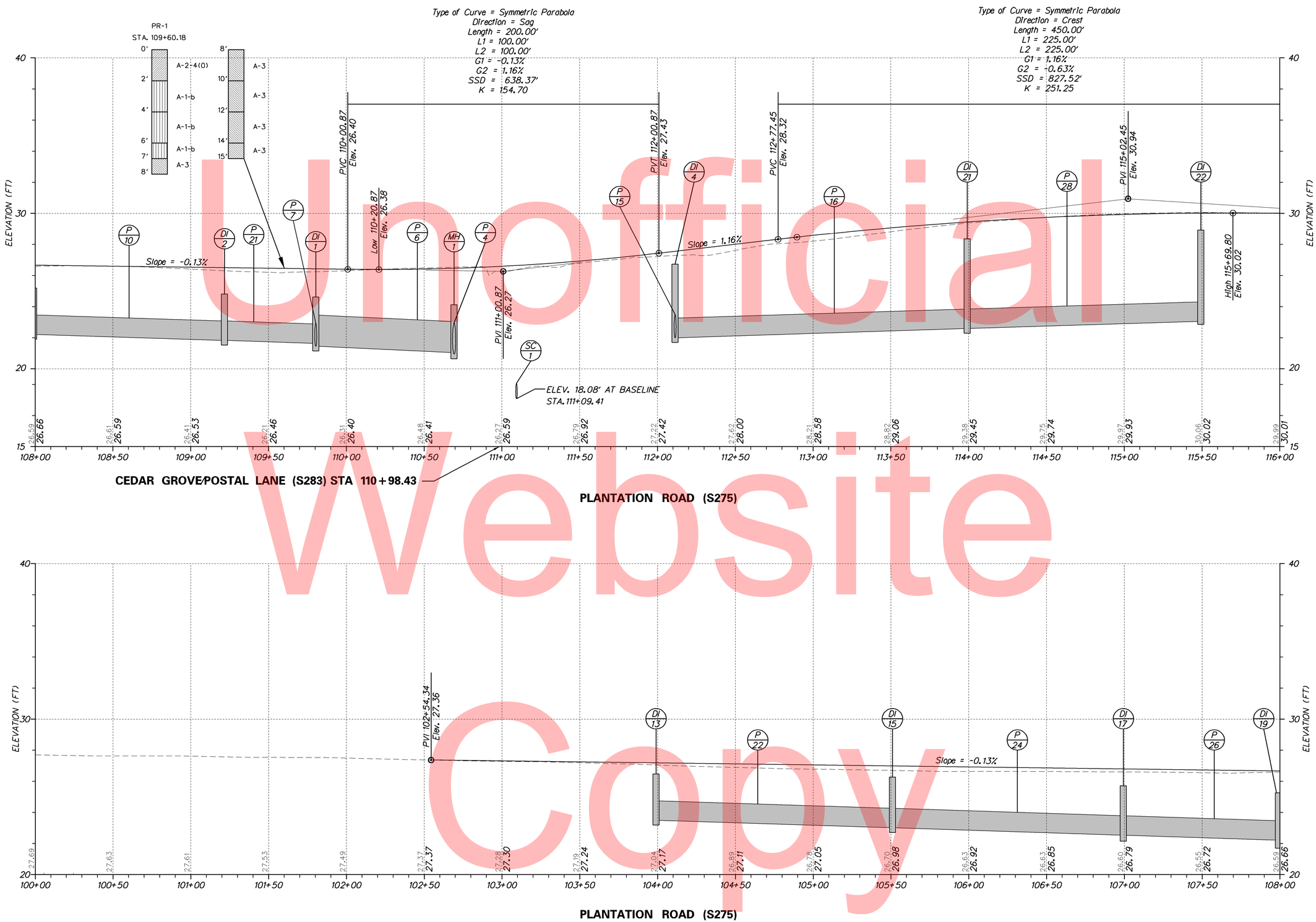
SCALE
0 30 60 90
FEET

HSIP, SC, PLANTATION ROAD AT CEDAR GROVE RD/POSTAL LANE INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T200911201	DESIGNED BY:	
COUNTY	CHECKED BY:	
SUSSEX		

CONSTRUCTION PLAN

SHEET NO.	17
TOTAL SHTS.	51



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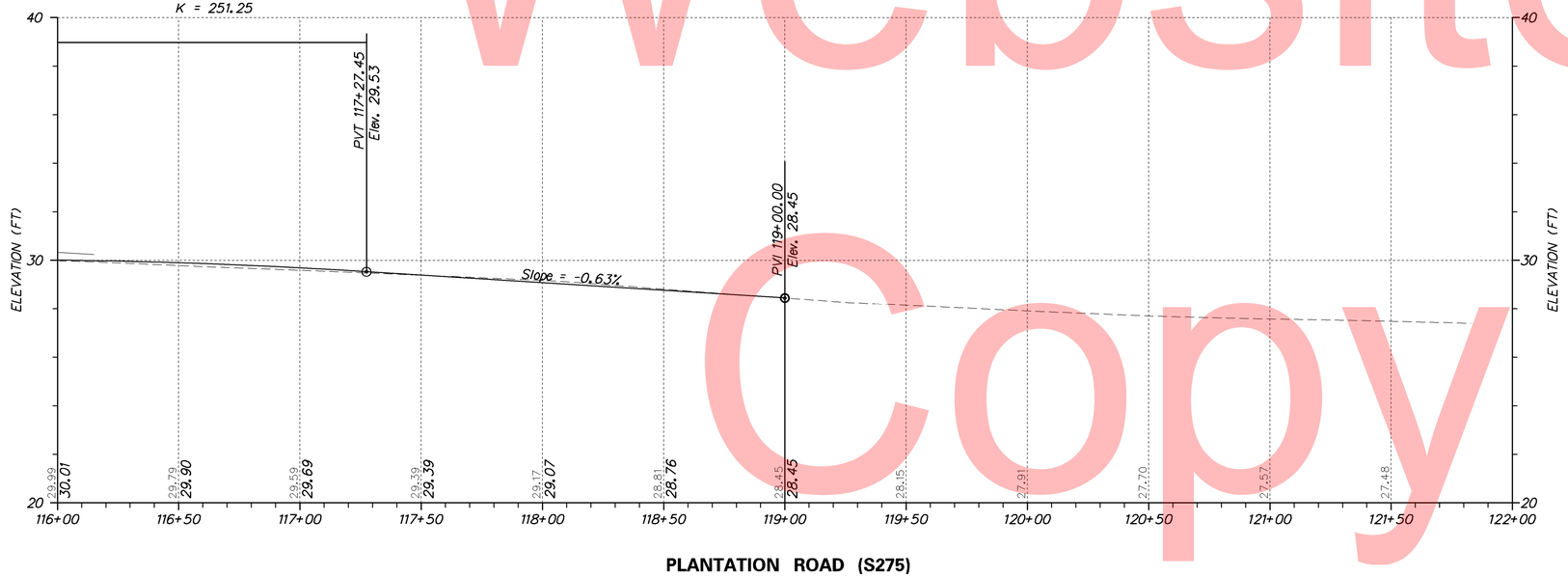
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP, SC, PLANTATION ROAD AT CEDAR GROVE RD /POSTAL LANE INTERSECTION IMPROVEMENTS	CONTRACT T200911201	BRIDGE NO. N/A	PROFILES	SHEET NO. 18
				COUNTY SUSSEX	DESIGNED BY: BJD		TOTAL SHTS. 51
					CHECKED BY:		

CEDAR GROVE (S283)



PLANTATION ROAD (S275)

VERTICAL SCALE FEET 15 10 5 0

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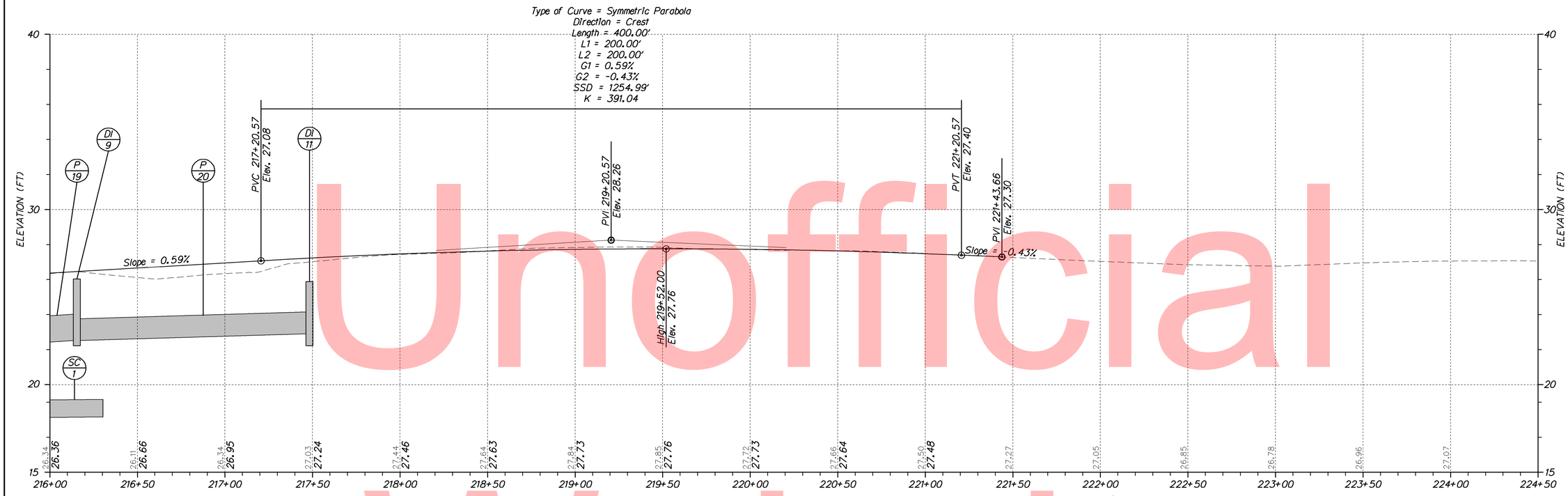
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP, SC, PLANTATION ROAD AT CEDAR GROVE RD /POSTAL LANE INTERSECTION IMPROVEMENTS	CONTRACT T200911201 / COUNTY SUSSEX	BRIDGE NO. N/A / DESIGNED BY: BJD / CHECKED BY:	PROFILES	SHEET NO. 19 / TOTAL SHTS. 51



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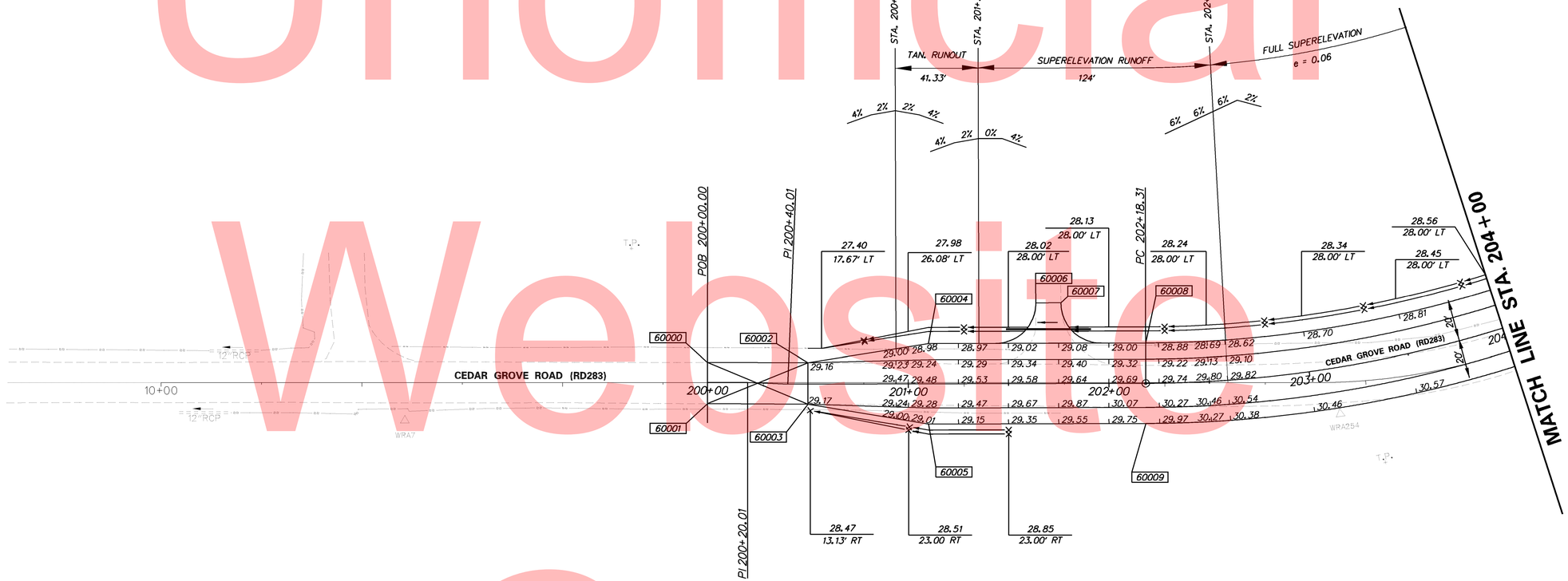
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP, SC, PLANTATION ROAD AT CEDAR GROVE RD /POSTAL LANE INTERSECTION IMPROVEMENTS	CONTRACT T200911201 / COUNTY SUSSEX / BRIDGE NO. N/A / DESIGNED BY: BJD / CHECKED BY:	PROFILES	SHEET NO. 20 / TOTAL SHTS. 51

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60000	200+00.00	-9.9729	265613.0209	730591.9317
60001	200+00.00	10.5137	265598.5716	730606.4547
60002	200+50.04	-10.6002	265648.3619	730627.2989
60003	200+50.00	9.9603	265633.8705	730641.8843
60004	201+10.00	-20.0000	265697.5957	730662.7829
60005	201+10.00	20.0000	265669.4639	730691.2189
60006	201+63.67	-40.0376	265749.8396	730686.2812
60007	201+76.22	-40.2141	265758.8854	730694.9818
60008	202+18.31	-20.0000	265774.5962	730738.9586
60009	202+18.31	-20.0000	265774.5962	730738.9586

NOTES:

1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION AND R//W BASELINE.
2. UNLESS OTHERWISE NOTED, POINT GEOMETRY ADJACENT TO CURB AND CURB AND GUTTER IS GIVEN TO THE EDGE OF PAVEMENT.
3. RADII ARE GIVEN TO EDGE OF PAVEMENT.
4. UNLESS OTHERWISE NOTED, EDGE OF PAVEMENT ELEVATIONS AT CURB RETURNS ARE GIVEN AT 10 FOOT INTERVALS.
5. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE PAID FOR UNDER ITEM 763501-CONSTRUCTION ENGINEERING.
6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR CURBS SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.
7 ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE PAID FOR UNDER ITEM 763501 - CONSTRUCTION ENGINEERING.



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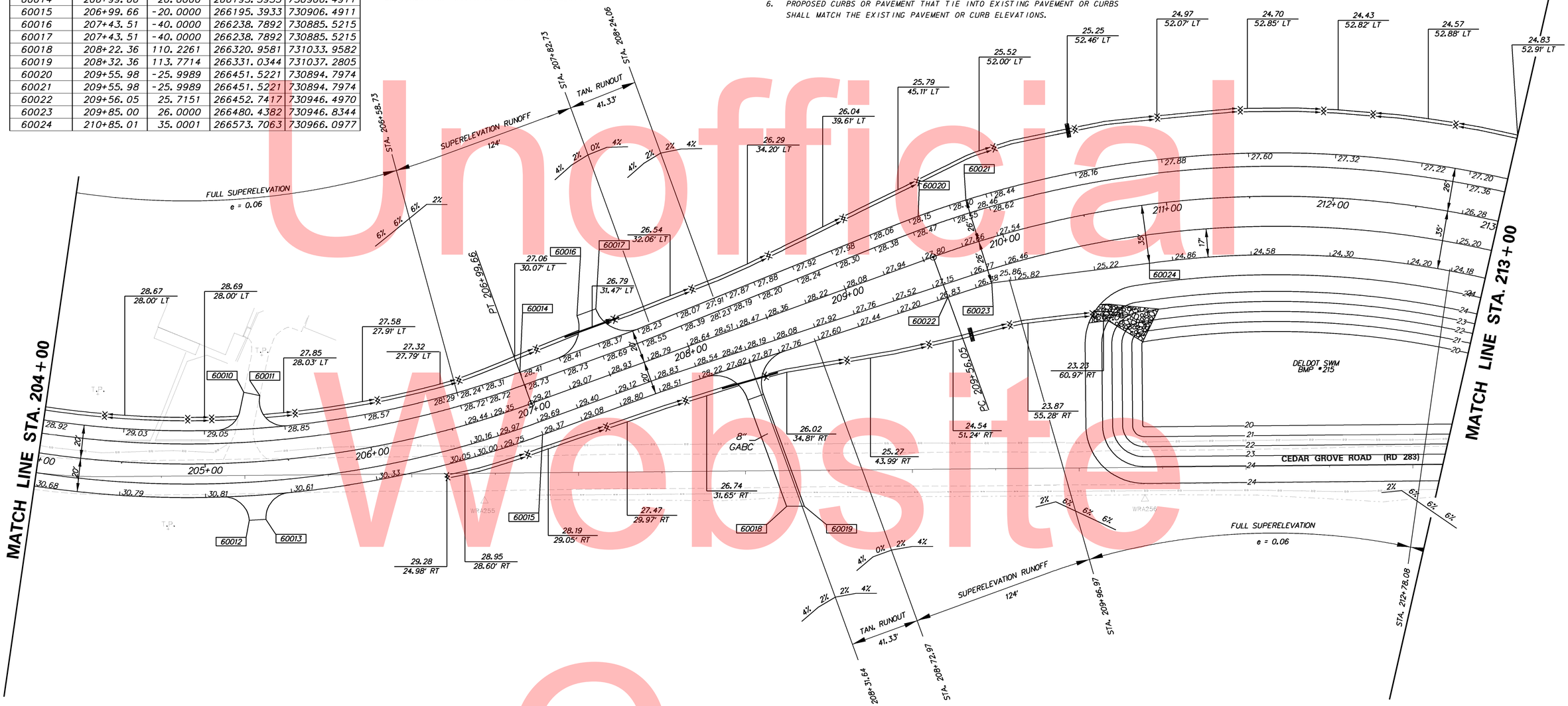
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP, SC, PLANTATION ROAD AT CEDAR GROVE ROAD/POSTAL LANE INTERSECTION IMPROVEMENTS	CONTRACT T200911201	BRIDGE NO. N/A	GRADES & GEOMETRICS	SHEET NO. 21
				COUNTY SUSSEX	DESIGNED BY:		TOTAL SHTS. 51
					CHECKED BY:		

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
60010	205+25.72	-42.0294	266034.9249	730864.7344
60011	205+35.88	-39.3827	266043.4033	730869.7207
60012	205+24.51	34.7047	266013.3961	730938.3962
60013	205+24.51	34.7047	266013.3961	730938.3962
60014	206+99.66	-20.0000	266195.3933	730906.4911
60015	206+99.66	-20.0000	266195.3933	730906.4911
60016	207+43.51	-40.0000	266238.7892	730885.5215
60017	207+43.51	-40.0000	266238.7892	730885.5215
60018	208+22.36	110.2261	266320.9581	731033.9582
60019	208+32.36	113.7714	266331.0344	731037.2805
60020	209+55.98	-25.9989	266451.5221	730894.7974
60021	209+55.98	-25.9989	266451.5221	730894.7974
60022	209+56.05	25.7151	266452.7417	730946.4970
60023	209+85.00	26.0000	266480.4382	730946.8344
60024	210+85.01	35.0001	266573.7063	730966.0977

NOTES:

1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CEDAR GROVE ROAD (RD. 283) CONSTRUCTION AND R/W BASELINE.
2. UNLESS OTHERWISE NOTED, POINT GEOMETRY ADJACENT TO CURB AND CURB AND GUTTER IS GIVEN TO THE EDGE OF PAVEMENT.
3. RADII ARE GIVEN TO EDGE OF PAVEMENT.
4. UNLESS OTHERWISE NOTED, EDGE OF PAVEMENT ELEVATIONS AT CURB RETURNS ARE GIVEN AT 10 FOOT INTERVALS.
5. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE PAID FOR UNDER ITEM 763501-CONSTRUCTION ENGINEERING.
6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR CURBS SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.
7. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE PAID FOR UNDER ITEM 763501 - CONSTRUCTION ENGINEERING.



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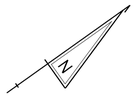
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP, SC, PLANTATION ROAD AT CEDAR GROVE ROAD/POSTAL LANE INTERSECTION IMPROVEMENTS	CONTRACT T200911201	BRIDGE NO. N/A	GRADES & GEOMETRICS	SHEET NO. 22
				COUNTY SUSSEX	DESIGNED BY:		TOTAL SHTS. 51
					CHECKED BY:		

NOTES:

1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF CONSTRUCTION AND R/W BASELINE.
2. UNLESS OTHERWISE NOTED, POINT GEOMETRY ADJACENT TO CURB AND CURB AND GUTTER IS GIVEN TO THE EDGE OF PAVEMENT.
3. RADII ARE GIVEN TO EDGE OF PAVEMENT.
4. UNLESS OTHERWISE NOTED, EDGE OF PAVEMENT ELEVATIONS AT CURB RETURNS ARE GIVEN AT 10 FOOT INTERVALS.
5. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE PAID FOR UNDER ITEM 763501-CONSTRUCTION ENGINEERING.
6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR CURBS SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.
7. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE PAID FOR UNDER ITEM 763501 - CONSTRUCTION ENGINEERING.

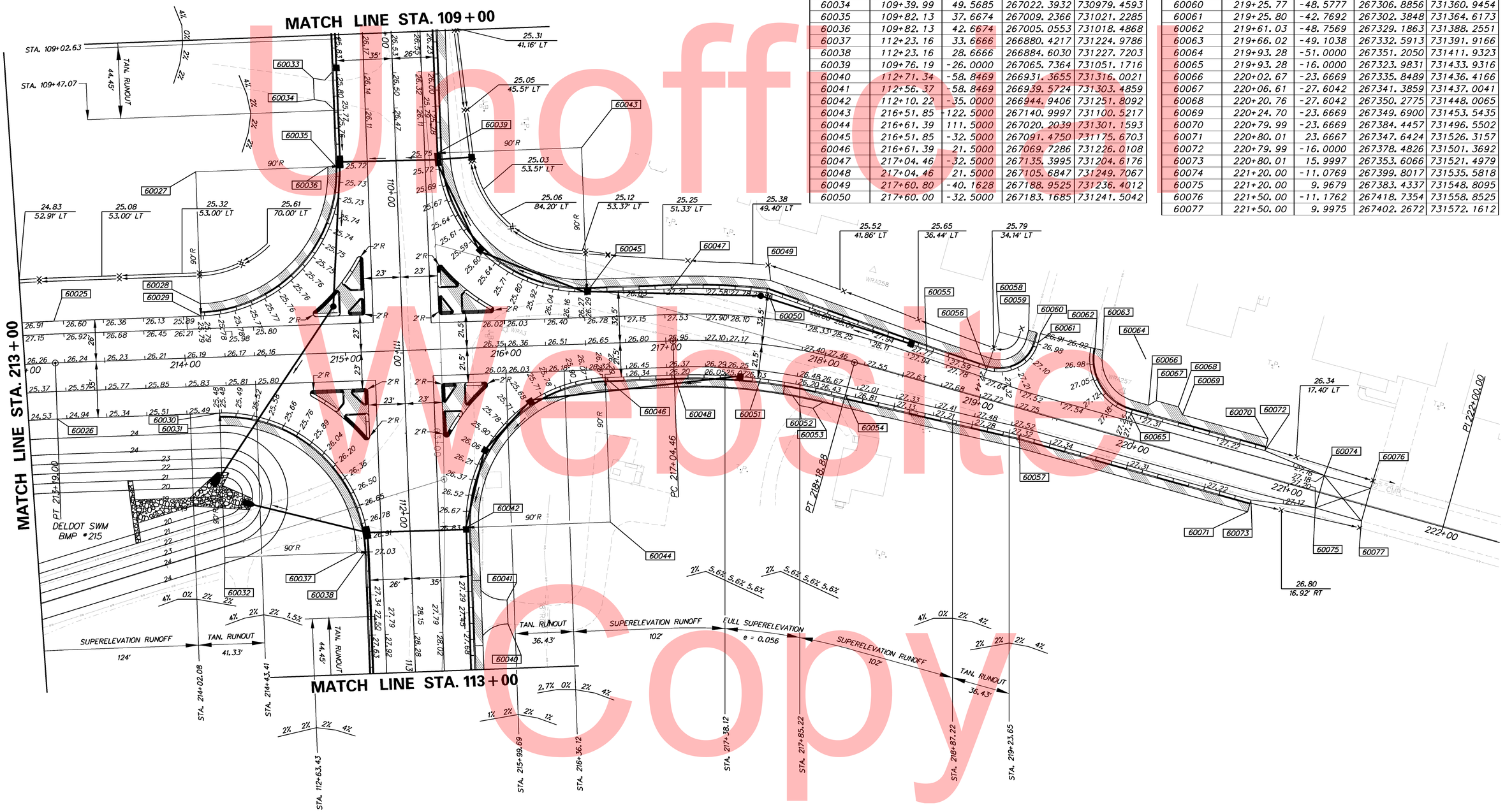


COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
60025	213+19.00	-26.0000	266809.9759	730997.9402
60026	213+19.00	35.0001	266776.4091	731048.8743
60027	214+10.87	-116.0000	266936.2039	730973.3409
60028	214+10.87	-33.6674	266890.8983	731042.0874
60029	214+10.87	-26.0000	266886.6792	731048.4895
60030	214+20.42	35.0000	266861.0944	731104.6838
60031	214+20.42	42.6666	266856.8756	731111.0853
60032	214+20.42	125.0000	266811.5697	731179.8324
60033	109+26.68	49.5475	267029.7075	730968.3427
60034	109+39.99	49.5685	267022.3932	730979.4593
60035	109+82.13	37.6674	267009.2366	731021.2285
60036	109+82.13	42.6674	267005.0553	731018.4868
60037	112+23.16	33.6666	266880.4217	731224.9786
60038	112+23.16	28.6666	266884.6030	731227.7203
60039	109+76.19	-26.0000	267065.7364	731051.1716
60040	112+71.34	-58.8469	266931.3655	731316.0021
60041	112+56.37	-58.8469	266939.5724	731303.4859
60042	112+10.22	-35.0000	266944.9406	731251.8092
60043	216+51.85	-122.5000	267140.9997	731100.5217
60044	216+61.39	111.5000	267020.2039	731301.1593
60045	216+51.85	-32.5000	267091.4750	731175.6703
60046	216+61.39	21.5000	267069.7286	731226.0108
60047	217+04.46	-32.5000	267135.3995	731204.6176
60048	217+04.46	21.5000	267105.6847	731249.7067
60049	217+60.80	-40.1628	267188.9525	731236.4012
60050	217+60.00	-32.5000	267183.1685	731241.5042

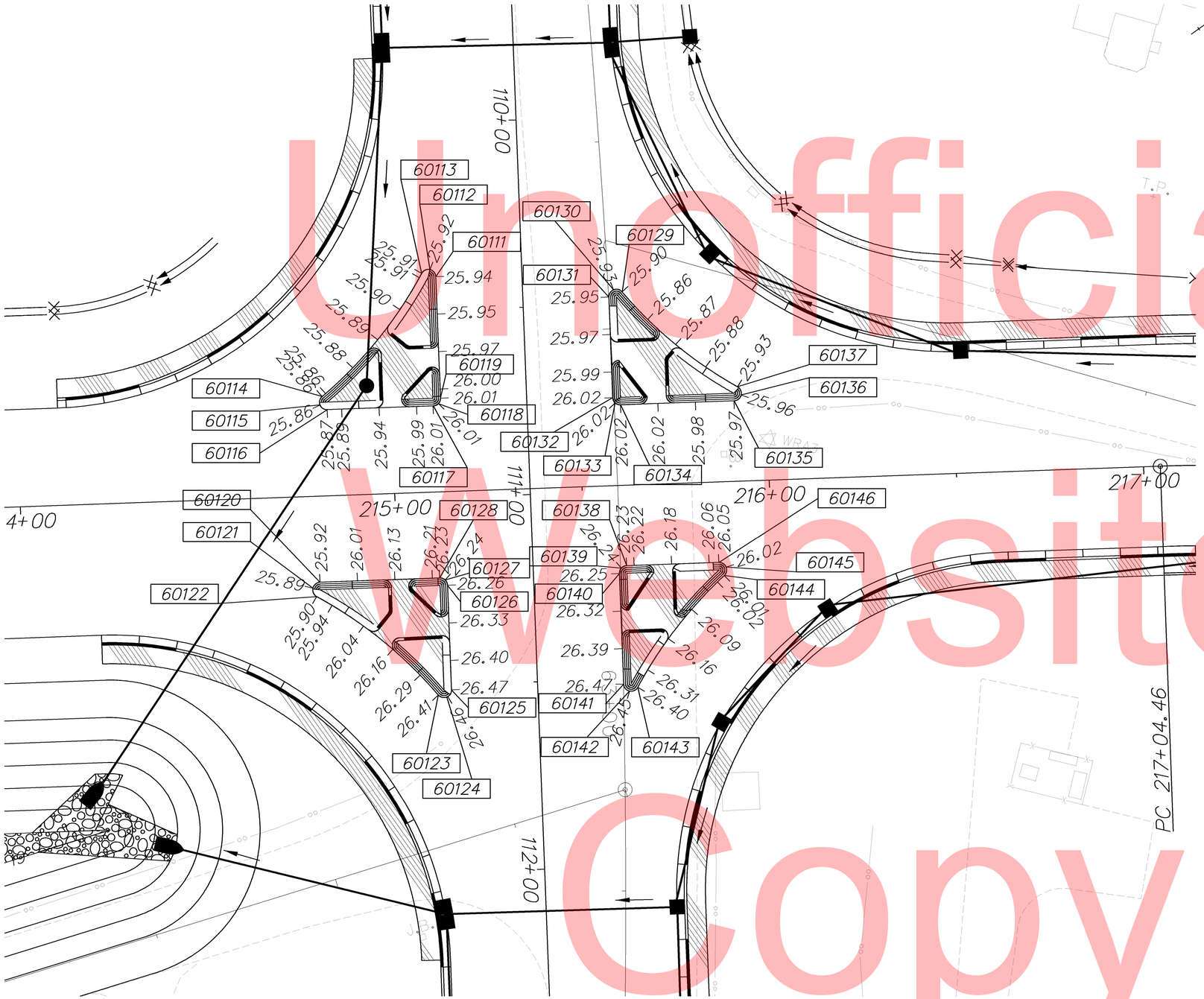
COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
60051	217+61.67	21.5000	267148.2262	731282.7095
60052	217+90.55	34.1521	267158.4388	731310.4389
60053	217+99.89	34.1511	267164.1781	731316.6795
60054	218+18.88	21.1334	267185.4789	731321.6245
60055	218+60.00	-19.8408	267243.1946	731327.8536
60056	218+99.44	-17.6903	267266.3101	731359.8779
60057	219+30.30	16.0000	267259.5057	731405.0581
60058	219+00.80	-42.6532	267286.5811	731345.2462
60059	219+18.11	-48.5422	267302.0422	731355.0086
60060	219+25.77	-48.5777	267306.8856	731360.9454
60061	219+25.80	-42.7692	267302.3848	731364.6173
60062	219+61.03	-48.7569	267329.1863	731388.2551
60063	219+66.02	-49.1038	267332.5913	731391.9166
60064	219+93.28	-51.0000	267351.2050	731411.9323
60065	219+93.28	-16.0000	267323.9831	731433.9316
60066	220+02.67	-23.6669	267335.8489	731436.4166
60067	220+06.61	-27.6042	267341.3859	731437.0041
60068	220+20.76	-27.6042	267350.2775	731448.0065
60069	220+24.70	-23.6669	267349.6900	731453.5435
60070	220+79.99	-23.6669	267384.4457	731496.5502
60071	220+80.01	23.6667	267347.6424	731526.3157
60072	220+79.99	-16.0000	267378.4826	731501.3692
60073	220+80.01	15.9997	267353.6066	731521.4979
60074	221+20.00	-11.0769	267399.8017	731535.5818
60075	221+20.00	9.9679	267383.4337	731548.8095
60076	221+50.00	-11.1762	267418.7354	731558.8525
60077	221+50.00	9.9975	267402.2672	731572.1612



Unofficial Website Copy

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP, SC, PLANTATION ROAD AT CEDAR GROVE RD/POSTAL LANE INTERSECTION IMPROVEMENTS	CONTRACT T200911201	BRIDGE NO. N/A	GRADES & GEOMETRICS	SHEET NO. 23
				COUNTY SUSSEX	DESIGNED BY:		TOTAL SHTS. 51
					CHECKED BY:		



COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60111	215+13.00	-57.4438	266989.2663	731078.4389
60112	215+11.53	-59.3702	266989.0912	731076.0164
60113	215+09.28	-58.4488	266986.7078	731075.5492
60114	214+81.57	-26.5636	266946.0227	731086.9232
60115	214+80.92	-24.3381	266944.2562	731088.4244
60116	214+82.81	-22.9947	266945.0944	731090.5858
60117	215+11.09	-22.9947	266968.7105	731106.1494
60118	215+12.50	-23.5788	266970.2114	731106.4389
60119	215+13.09	-24.9901	266971.4785	731105.5838
60120	214+79.22	23.0064	266916.7899	731127.0247
60121	214+77.29	24.4812	266914.3671	731127.1942
60122	214+78.21	26.7306	266913.8943	731129.5765
60123	215+09.70	54.1019	266925.1283	731169.7607
60124	215+11.93	54.7456	266926.6336	731171.5236
60125	215+13.27	52.8533	266928.7930	731170.6804
60126	215+13.19	24.9929	266944.0601	731147.3754
60127	215+12.60	23.5817	266944.3461	731145.8738
60128	215+11.19	22.9975	266943.4881	731144.6087
60129	215+62.59	-51.5965	267027.4519	731110.6070
60130	215+60.36	-52.2402	267025.9466	731108.8441
60131	215+59.02	-50.3479	267023.7872	731109.6873
60132	215+59.09	-23.4964	267009.0635	731132.1421
60133	215+59.67	-22.0792	267008.7714	731133.6469
60134	215+61.09	-21.5010	267009.6355	731134.9087
60135	215+91.40	-21.5010	267034.9471	731151.5897
60136	215+93.33	-22.9597	267037.3573	731151.4312
60137	215+92.44	-25.2079	267037.8572	731149.0681
60138	215+61.19	21.5010	266986.0589	731170.8717
60139	215+59.77	22.0885	266984.5535	731170.5831
60140	215+59.19	23.5057	266983.2859	731171.4450
60141	215+59.26	52.9502	266967.1404	731196.0683
60142	215+60.74	54.8766	266967.3155	731198.4908
60143	215+62.98	53.9551	266969.6989	731198.9580
60144	215+87.12	25.0183	267005.7745	731188.0771
60145	215+87.69	22.8062	267007.4696	731186.5450
60146	215+85.82	21.5010	267006.6219	731184.4232

NOTES:

1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF CONSTRUCTION AND R/W BASELINE.
2. UNLESS OTHERWISE NOTED, POINT GEOMETRY ADJACENT TO CURB AND CURB AND GUTTER IS GIVEN TO THE EDGE OF PAVEMENT.
3. RADII ARE GIVEN TO EDGE OF PAVEMENT.
4. UNLESS OTHERWISE NOTED, EDGE OF PAVEMENT ELEVATIONS AT CURB RETURNS ARE GIVEN AT 10 FOOT INTERVALS.
5. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE PAID FOR UNDER ITEM 763501-CONSTRUCTION ENGINEERING.
6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR CURBS SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.
7. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE PAID FOR UNDER ITEM 763501 - CONSTRUCTION ENGINEERING.

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DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE
0 15 30 45
FEET

HSIP, SC, PLANTATION ROAD AT CEDAR GROVE RD/POSTAL LANE INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T200911201	DESIGNED BY:	
COUNTY	CHECKED BY:	
SUSSEX		

GRADES & GEOMETRICS

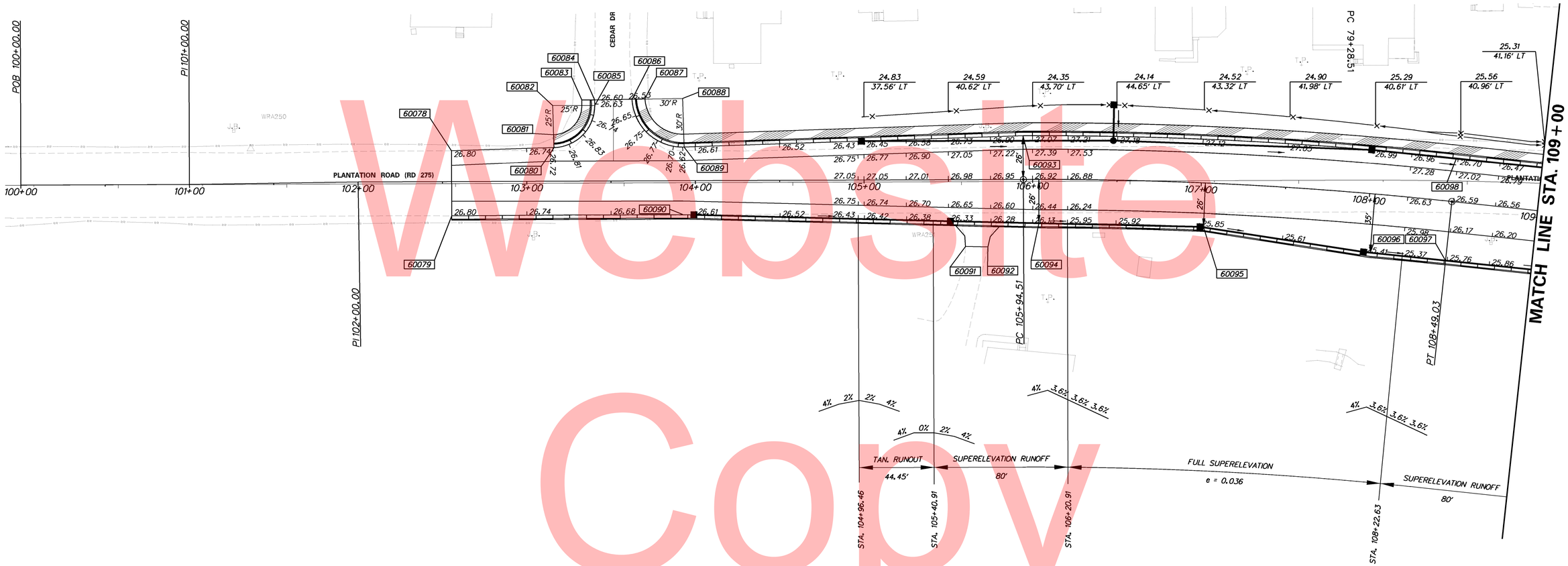
SHEET NO.
24
TOTAL SHTS.
51

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
60078	102+55.40	-18.3841	267411.1187	730416.3873
60079	102+55.40	20.1776	267376.7332	730398.9331
60080	103+16.18	-20.0181	267385.0652	730471.3237
60081	103+15.98	-27.6821	267391.9925	730474.6090
60082	103+15.51	-45.0090	267407.6537	730482.0362
60083	103+32.84	-48.2123	267402.6646	730498.9421
60084	103+40.51	-48.2123	267399.1943	730505.7786
60085	103+40.51	-45.0090	267396.3380	730504.3287
60086	103+62.64	-48.4809	267389.4189	730525.6300
60087	103+70.29	-48.8731	267386.3052	730532.6307
60088	103+92.65	-48.8749	267376.1827	730552.5765
60089	103+93.49	-20.0300	267350.0849	730540.2628
60090	103+92.48	20.0000	267314.8447	730521.2486
60091	105+59.95	39.4477	267221.7037	730661.7743
60092	105+73.18	39.8325	267215.3713	730673.3991
60093	105+94.39	-26.0000	267264.4744	730722.1086
60094	106+03.67	26.0000	267213.9372	730706.7449
60095	107+02.41	26.0000	267167.5535	730792.6354
60096	108+03.23	35.0000	267108.8081	730873.4236
60097	108+49.03	35.0000	267084.4556	730911.3772
60098	108+49.03	-26.0000	267135.4674	730944.8256

NOTES:

1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE PLANTATION ROAD (RD.275) CONSTRUCTION AND R/W BASELINE.
2. UNLESS OTHERWISE NOTED, POINT GEOMETRY ADJACENT TO CURB AND CURB AND GUTTER IS GIVEN TO THE EDGE OF PAVEMENT.
3. RADII ARE GIVEN TO EDGE OF PAVEMENT.
4. UNLESS OTHERWISE NOTED, EDGE OF PAVEMENT ELEVATIONS AT CURB RETURNS ARE GIVEN AT 10 FOOT INTERVALS.
5. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE PAID FOR UNDER ITEM 763501-CONSTRUCTION ENGINEERING.
6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR CURBS SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.
7. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE PAID FOR UNDER ITEM 763501 - CONSTRUCTION ENGINEERING.



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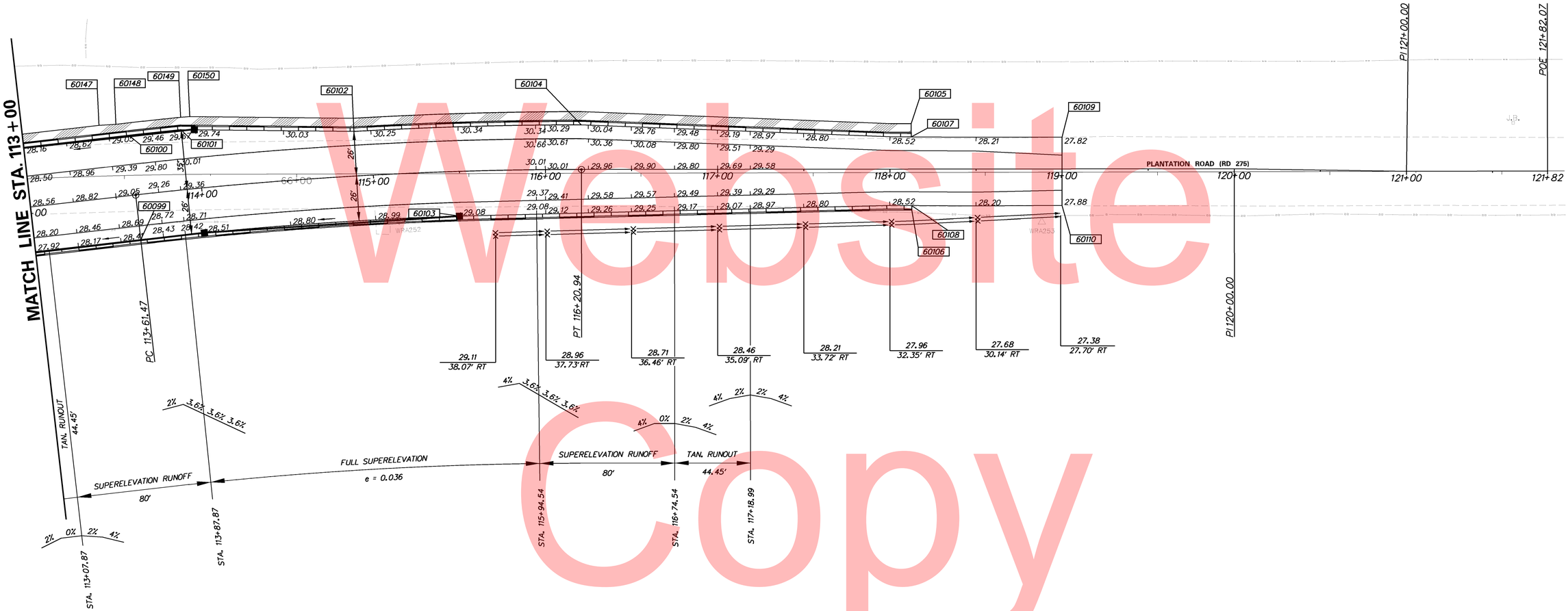
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP, SC, PLANTATION ROAD AT CEDAR GROVE RD/POSTAL LANE INTERSECTION IMPROVEMENTS	CONTRACT T200911201 / COUNTY SUSSEX	BRIDGE NO. N/A / DESIGNED BY: / CHECKED BY:	GRADES & GEOMETRICS	SHEET NO. 25 / TOTAL SHTS. 51

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
60099	113+61.47	26.0000	266810.9898	731344.8500
60100	113+61.47	-35.0000	266862.0016	731378.2985
60101	113+91.58	-35.0000	266845.0739	731403.7498
60102	114+90.14	-26.0000	266780.1187	731480.1278
60103	115+49.90	26.0000	266702.5691	731496.2911
60104	116+20.94	-26.0000	266698.5289	731584.2304
60105	118+12.35	-26.4499	266576.5685	731731.7496
60106	118+12.72	23.8868	266537.6129	731699.8690
60107	118+12.41	-18.7827	266570.6318	731726.8973
60108	118+12.74	21.2202	266539.6528	731701.5865
60109	119+00.00	-18.6285	266514.5449	731794.1731
60110	119+00.00	21.2103	266483.9003	731768.7165
60147	113+44.75	-42.67	266877.5809	731368.5205
60148	113+54.75	-42.17	266871.6794	731376.6089
60149	113+91.97	-42.17	266850.7923	731408.0881
60150	113+97.16	-42.09	266847.7654	731412.4192

NOTES:

1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE PLANTATION ROAD (RD.275) CONSTRUCTION AND R/W BASELINE.
2. UNLESS OTHERWISE NOTED, POINT GEOMETRY ADJACENT TO CURB AND CURB AND GUTTER IS GIVEN TO THE EDGE OF PAVEMENT.
3. RADII ARE GIVEN TO EDGE OF PAVEMENT.
4. UNLESS OTHERWISE NOTED, EDGE OF PAVEMENT ELEVATIONS AT CURB RETURNS ARE GIVEN AT 10 FOOT INTERVALS.
5. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE PAID FOR UNDER ITEM 763501-CONSTRUCTION ENGINEERING.
6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR CURBS SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.
7. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE PAID FOR UNDER ITEM 763501 - CONSTRUCTION ENGINEERING.



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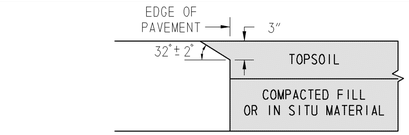
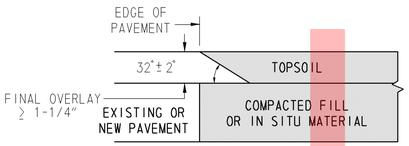
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP, SC, PLANTATION ROAD AT CEDAR GROVE RD/POSTAL LANE INTERSECTION IMPROVEMENTS	CONTRACT T200911201	BRIDGE NO. N/A	GRADES & GEOMETRICS	SHEET NO. 26
				COUNTY SUSSEX	DESIGNED BY:		TOTAL SHTS. 51
					CHECKED BY:		

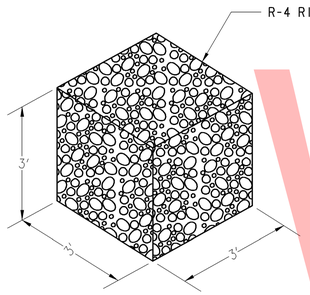


CONCRETE PAVEMENTS
NOT TO SCALE

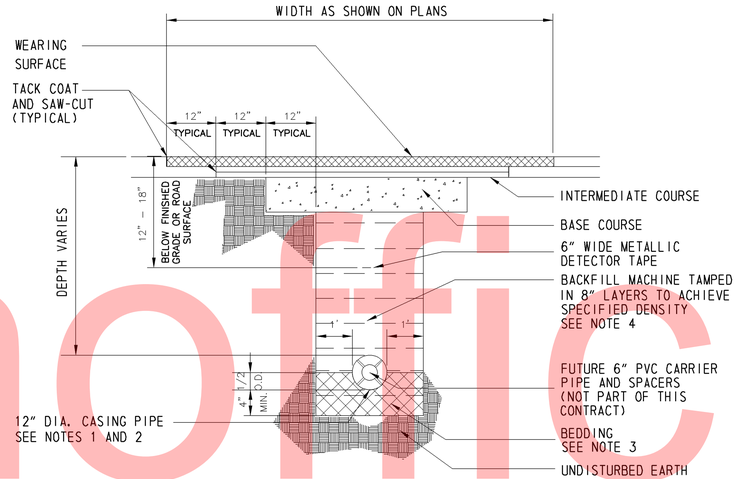


HOT-MIX PAVEMENTS AND OVERLAYS
NOT TO SCALE

SAFETY EDGE DETAIL
NOT TO SCALE



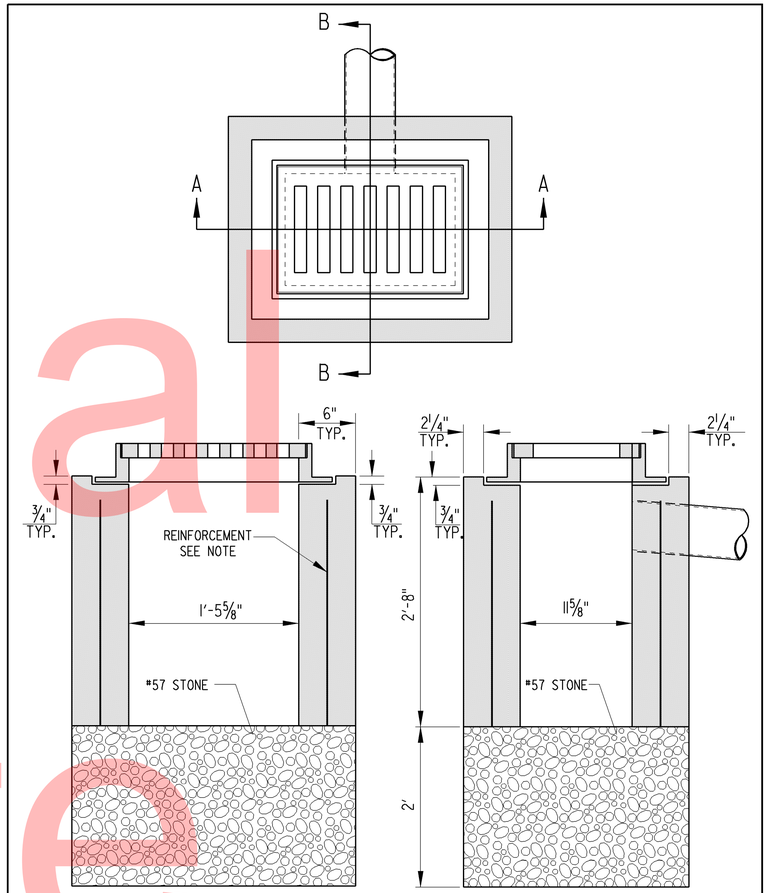
SINGLE GABION DETAIL
NOT TO SCALE



CASING PIPE TRENCH DETAIL
NOT TO SCALE

NOTE:

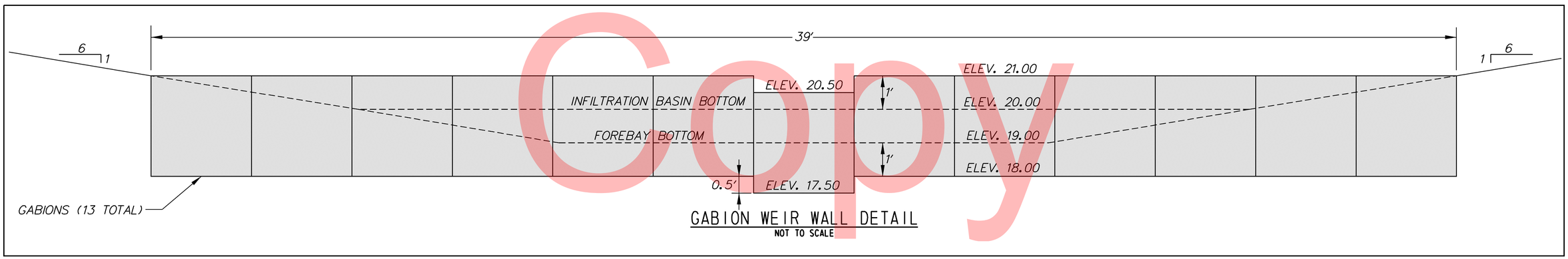
1. CASING PIPE SHALL BE SMOOTH-WALLED, 12" DIA. STEEL PIPE, WITH A MINIMUM YIELD STRENGTH OF 35,000 PSI (ASTM A-139 GRADE B). PIPE SHALL HAVE A MINIMUM WALL THICKNESS OF 0.375 INCHES AND HAVE 2 COATS OF BITUMASTIC COAL TAR EPOXY INSIDE AND OUT.
2. CASING PIPE SHALL BE CAPPED ON BOTH ENDS, WITH NEOPRENE WATER TIGHT END CAPS AND STAINLESS STEEL PIPE STRAPS.
3. PIPE BEDDING SHALL CONSIST OF SUITABLE, ON-SITE MATERIAL EXCAVATED FROM THE TRENCH. IF THE ENGINEER DETERMINES IN SITU MATERIAL IS NOT SUITABLE OR THERE IS INSUFFICIENT SUITABLE MATERIAL, BORROW MATERIAL OR DELDOT COARSE AGGREGATE SP-57 STONE SHALL BE USED. BORROW MATERIAL SHALL MEET THE REQUIREMENTS OF DELDOT BORROW TYPE "B" (SPECIAL FILL).
4. BACKFILL MATERIAL SHALL CONSIST OF SUITABLE, ON-SITE MATERIAL EXCAVATED FROM THE TRENCH. IF THE ENGINEER DETERMINES IN SITU MATERIAL IS NOT SUITABLE OR THERE IS INSUFFICIENT SUITABLE MATERIAL, BORROW MATERIAL, EITHER DELDOT BORROW TYPE "B" (SPECIAL FILL) OR BORROW TYPE "C" (BACKFILL) SHALL BE USED.
5. REPAINT PAVING STRIPING AS NECESSARY.



SECTION A-A SECTION B-B

LAWN INLET DETAIL
NOT TO SCALE

NOTE: 1. REINFORCEMENT SHALL BE 4" X 4" W4 X W4
2. INLET BOXES ARE TO BE PRE-CAST OR CAST-IN-PLACE.
3. *57 STONE SHALL BE INCIDENTAL TO PAYMENT OF LAWN BASIN.

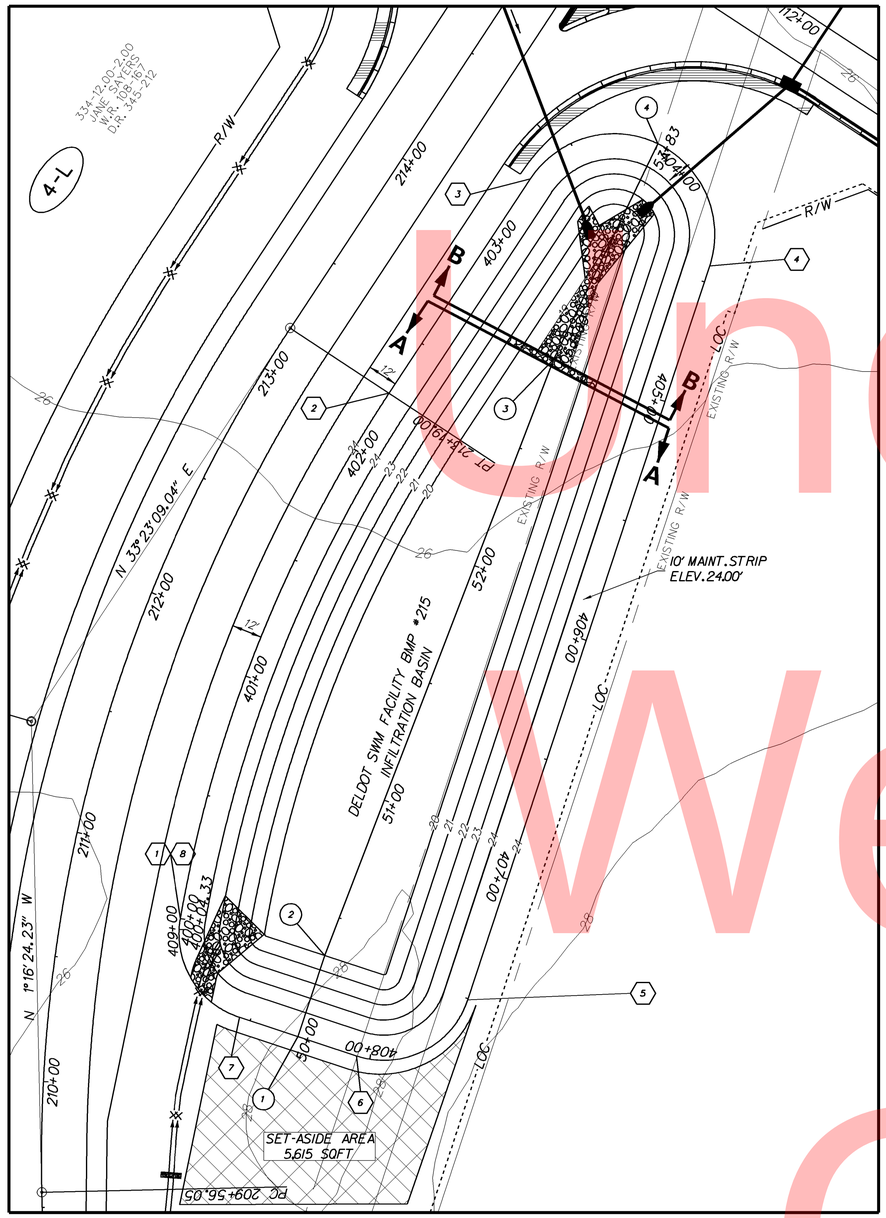


GABION WEIR WALL DETAIL
NOT TO SCALE

Unofficial Website Copy

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	HSIP, SC, PLANTATION ROAD AT CEDAR GROVE ROAD/POSTAL LANE INTERSECTION IMPROVEMENTS	CONTRACT T200911201	BRIDGE NO. N/A	CONSTRUCTION DETAILS	SHEET NO. 27
				COUNTY SUSSEX	DESIGNED BY: BJD		TOTAL SHTS. 51
					CHECKED BY: RMH		

Y:\SUSSEX\275\ROAD\291101\PLANS\DT.DGN


334-12.00-2.00
JANE SAMBERG
W.R. 1068-167
D.R. 345-212
4-L
R/W
214+00
213+00
212+00
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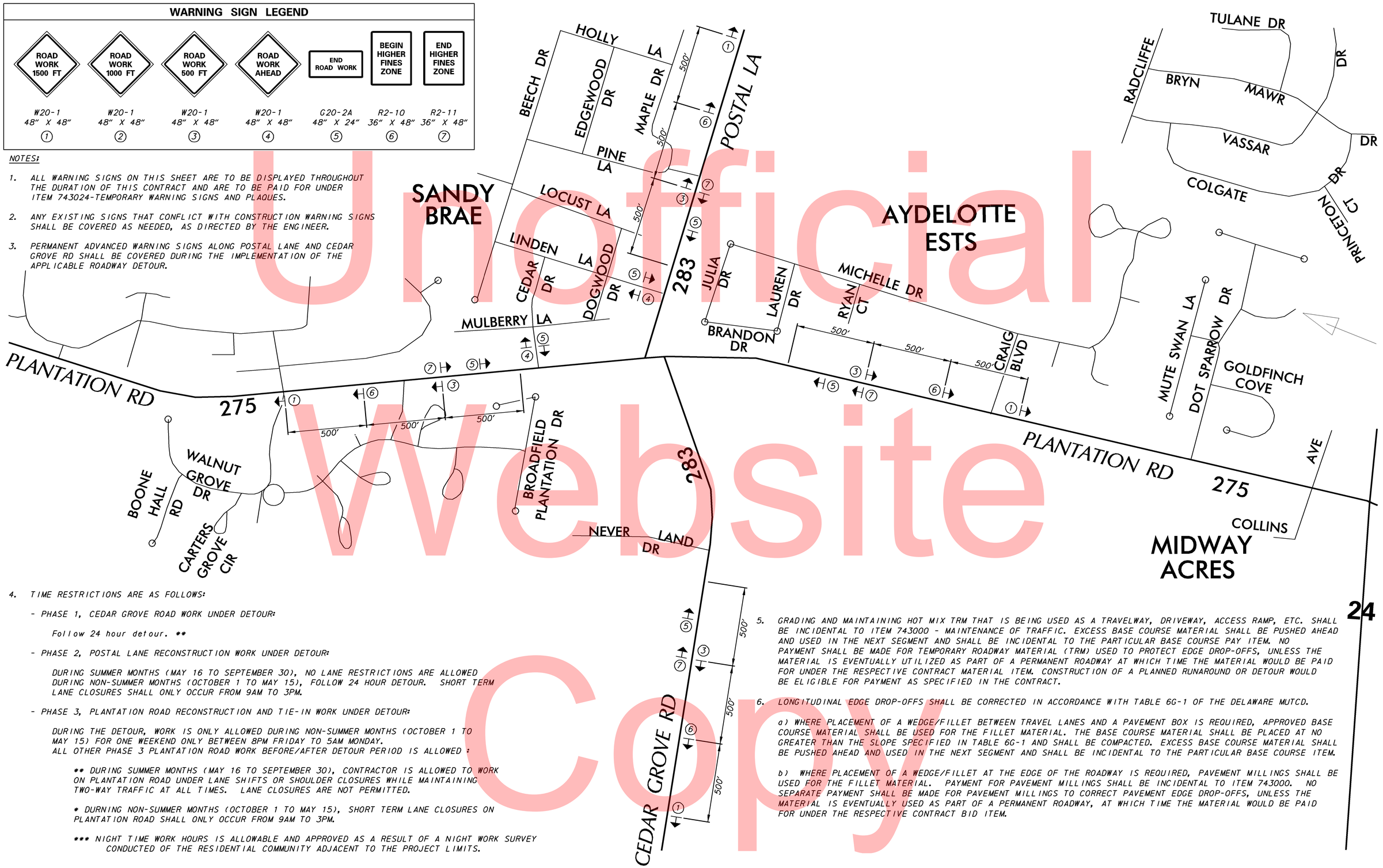
131+00
130+00
129+00
128+00
127+00
126+00
125+00
124+00
N 33°23'09.04" E
N 1°16'24.23" W
EXISTING R/W
EXISTING R/W
EXISTING R/

WARNING SIGN LEGEND

ROAD WORK 1500 FT	ROAD WORK 1000 FT	ROAD WORK 500 FT	ROAD WORK AHEAD	END ROAD WORK	BEGIN HIGHER FINES ZONE	END HIGHER FINES ZONE
W20-1 48" X 48" ①	W20-1 48" X 48" ②	W20-1 48" X 48" ③	W20-1 48" X 48" ④	G20-2A 48" X 24" ⑤	R2-10 36" X 48" ⑥	R2-11 36" X 48" ⑦

NOTES:

1. ALL WARNING SIGNS ON THIS SHEET ARE TO BE DISPLAYED THROUGHOUT THE DURATION OF THIS CONTRACT AND ARE TO BE PAID FOR UNDER ITEM 743024-TEMPORARY WARNING SIGNS AND PLAQUES.
2. ANY EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION WARNING SIGNS SHALL BE COVERED AS NEEDED, AS DIRECTED BY THE ENGINEER.
3. PERMANENT ADVANCED WARNING SIGNS ALONG POSTAL LANE AND CEDAR GROVE RD SHALL BE COVERED DURING THE IMPLEMENTATION OF THE APPLICABLE ROADWAY DETOUR.



4. TIME RESTRICTIONS ARE AS FOLLOWS:

- PHASE 1, CEDAR GROVE ROAD WORK UNDER DETOUR:

  Follow 24 hour detour. **

- PHASE 2, POSTAL LANE RECONSTRUCTION WORK UNDER DETOUR:

  DURING SUMMER MONTHS (MAY 16 TO SEPTEMBER 30), NO LANE RESTRICTIONS ARE ALLOWED
  DURING NON-SUMMER MONTHS (OCTOBER 1 TO MAY 15), FOLLOW 24 HOUR DETOUR. SHORT TERM LANE CLOSURES SHALL ONLY OCCUR FROM 9AM TO 3PM.

- PHASE 3, PLANTATION ROAD RECONSTRUCTION AND TIE-IN WORK UNDER DETOUR:

  DURING THE DETOUR, WORK IS ONLY ALLOWED DURING NON-SUMMER MONTHS (OCTOBER 1 TO MAY 15) FOR ONE WEEKEND ONLY BETWEEN 8PM FRIDAY TO 5AM MONDAY.
  ALL OTHER PHASE 3 PLANTATION ROAD WORK BEFORE/AFTER DETOUR PERIOD IS ALLOWED :

  ** DURING SUMMER MONTHS (MAY 16 TO SEPTEMBER 30), CONTRACTOR IS ALLOWED TO WORK ON PLANTATION ROAD UNDER LANE SHIFTS OR SHOULDER CLOSURES WHILE MAINTAINING TWO-WAY TRAFFIC AT ALL TIMES. LANE CLOSURES ARE NOT PERMITTED.

  * DURNING NON-SUMMER MONTHS (OCTOBER 1 TO MAY 15), SHORT TERM LANE CLOSURES ON PLANTATION ROAD SHALL ONLY OCCUR FROM 9AM TO 3PM.

  *** NIGHT TIME WORK HOURS IS ALLOWABLE AND APPROVED AS A RESULT OF A NIGHT WORK SURVEY CONDUCTED OF THE RESIDENTIAL COMMUNITY ADJACENT TO THE PROJECT LIMITS.

5. GRADING AND MAINTAINING HOT MIX TRM THAT IS BEING USED AS A TRAVELWAY, DRIVEWAY, ACCESS RAMP, ETC. SHALL BE INCIDENTAL TO ITEM 743000 - MAINTENANCE OF TRAFFIC. EXCESS BASE COURSE MATERIAL SHALL BE PUSHED AHEAD AND USED IN THE NEXT SEGMENT AND SHALL BE INCIDENTAL TO THE PARTICULAR BASE COURSE PAY ITEM. NO PAYMENT SHALL BE MADE FOR TEMPORARY ROADWAY MATERIAL (TRM) USED TO PROTECT EDGE DROP-OFFS, UNLESS THE MATERIAL IS EVENTUALLY UTILIZED AS PART OF A PERMANENT ROADWAY AT WHICH TIME THE MATERIAL WOULD BE PAID FOR UNDER THE RESPECTIVE CONTRACT MATERIAL ITEM. CONSTRUCTION OF A PLANNED RUNAROUND OR DETOUR WOULD BE ELIGIBLE FOR PAYMENT AS SPECIFIED IN THE CONTRACT.

6. LONGITUDINAL EDGE DROP-OFFS SHALL BE CORRECTED IN ACCORDANCE WITH TABLE 6G-1 OF THE DELAWARE MUTCD.

   a) WHERE PLACEMENT OF A WEDGE/FILLET BETWEEN TRAVEL LANES AND A PAVEMENT BOX IS REQUIRED, APPROVED BASE COURSE MATERIAL SHALL BE USED FOR THE FILLET MATERIAL. THE BASE COURSE MATERIAL SHALL BE PLACED AT NO GREATER THAN THE SLOPE SPECIFIED IN TABLE 6G-1 AND SHALL BE COMPACTED. EXCESS BASE COURSE MATERIAL SHALL BE PUSHED AHEAD AND USED IN THE NEXT SEGMENT AND SHALL BE INCIDENTAL TO THE PARTICULAR BASE COURSE ITEM.

   b) WHERE PLACEMENT OF A WEDGE/FILLET AT THE EDGE OF THE ROADWAY IS REQUIRED, PAVEMENT MILLINGS SHALL BE USED FOR THE FILLET MATERIAL. PAYMENT FOR PAVEMENT MILLINGS SHALL BE INCIDENTAL TO ITEM 743000. NO SEPARATE PAYMENT SHALL BE MADE FOR PAVEMENT MILLINGS TO CORRECT PAVEMENT EDGE DROP-OFFS, UNLESS THE MATERIAL IS EVENTUALLY USED AS PART OF A PERMANENT ROADWAY, AT WHICH TIME THE MATERIAL WOULD BE PAID FOR UNDER THE RESPECTIVE CONTRACT BID ITEM.

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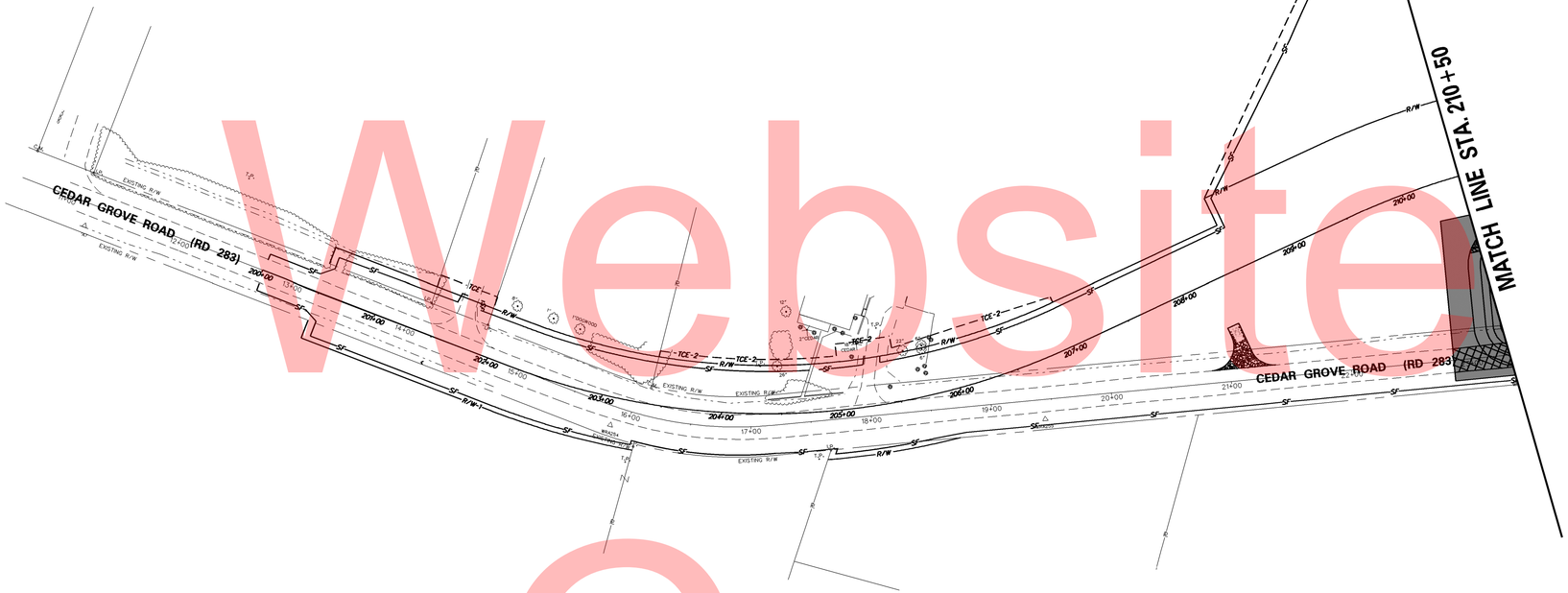
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	PLANTATION ROAD AT CEDAR GROVE RD/POSTAL LANE INTERSECTION IMPROVEMENTS	CONTRACT T200911201	BRIDGE NO. N/A	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN	SHEET NO. 29
				COUNTY SUSSEX	DESIGNED BY:		TOTAL SHTS. 51
					CHECKED BY:		

PHASE 1 - SEQUENCE OF CONSTRUCTION

1. ACCESS TO CEDAR GROVE ROAD SHALL BE CLOSED DURING PHASE 1. SEE DETOUR PLAN.
2. ACCESS TO POSTAL LANE SHALL BE CLOSED DURING PHASE 1. SEE DETOUR PLAN.
3. SOME PHASE 2 WORK CAN OCCUR SIMULTANEOUSLY WITH PHASE 1 WORK AS DIRECTED BY ENGINEER.
4. PLACE PORTABLE CHANGEABLE MESSAGE SIGNS ON PLANTATIONS RD, CEDAR GROVE RD, AND POSTAL LANE TEN (10) CALENDAR DAYS IN ADVANCE OF CONSTRUCTION AND PHASE CHANGES TO INFORM TRAVELING PUBLIC OF IMPENDING ROAD WORK. LOCATION AND MESSAGE OF PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE APPROVED BY SOUTH DISTRICT SAFETY OFFICER.
5. INSTALL PERMANENT ADVANCE WARNING SIGNS AS DIRECTED BY ENGINEER.
6. INSTALL PERIMETER E&S CONTROLS AND ALL OTHER EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
7. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES AS SHOWN.
8. REMOVE PORTION OF EXISTING CEDAR GROVE REQUIRED TO CONSTRUCT DELDOT SWM FACILITY BMP #215.
9. CONSTRUCT DELDOT SWM FACILITY BMP #215. DURING CONSTRUCTION THE INFILTRATION BASIN ELEVATION BEYOND THE FOREBAY GABION WEIR SHALL BE MAINTAINED AT ELEVATION 21.00.
10. SHIFT TRAFFIC LANES USING TYPICAL APPLICATION (TA)-11B OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (DE MUTCD) TO PLACE DRUMS, REMOVE EXISTING STRIPING, AND PLACE TEMPORARY STRIPING ON PLANTATION ROAD AS SHOWN ON PLAN
11. INSTALL ALL ROADWAY STORM DRAIN SYSTEMS AND CROSS PIPES ON PLANTATION ROAD FROM DOWNSTREAM TO UPSTREAM. STABLE CONVEYANCE BETWEEN EXISTING DITCHES TO ANY NEW PIPES SHALL BE PROVIDED AT THE END OF EACH WORK DAY.
12. ROUGH GRADE NEWLY INSTALLED DRAINAGE FEATURES AND EROSION AND SEDIMENT CONTROL DEVICES TO ENSURE POSITIVE DRAINAGE.
13. CONSTRUCT CURB AND GUTTER, SIDEWALKS, AND CONCRETE ISLANDS AS SHOWN.
14. GRADE AND BOX OUT FOR PROPOSED WIDENING PAVEMENT SECTION OF PLANTATION ROAD TO THE LIMITS SHOWN.
15. PLACE PROPOSED WARM-MIX PAVING SECTION ON PLANTATION ROAD UP TO THE TOP OF THE TYPE B WARM-MIX LAYER TO THE LIMITS OF PLANTATION ROAD AS SHOWN.
16. INSTALL TRAFFIC SIGNAL AND LIGHTING POLE BASES AND OTHER APPURTENANCES AS APPLICABLE.
17. TEMPORARILY STABILIZE ALL DISTURBED AREAS UPON COMPLETION OF PHASE 1.
18. ALL UNDERGROUND UTILITIES SHALL BE SET FLUSH TO ROAD SURFACE PRIOR TO OPENING ROADWAY TO TRAFFIC.

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



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DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE
0 60 120 180
FEET

PLANTATION ROAD AT
CEDAR GROVE RD/POSTAL LANE
INTERSECTION IMPROVEMENTS

CONTRACT	T200911201
COUNTY	SUSSEX
BRIDGE NO.	N/A
DESIGNED BY: BJD	
CHECKED BY: RMH	

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

SHEET NO.	30
TOTAL SHTS.	51