THE STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY UNITS

FINAL PLANS

CONSTRUCTION PLANS FOR:

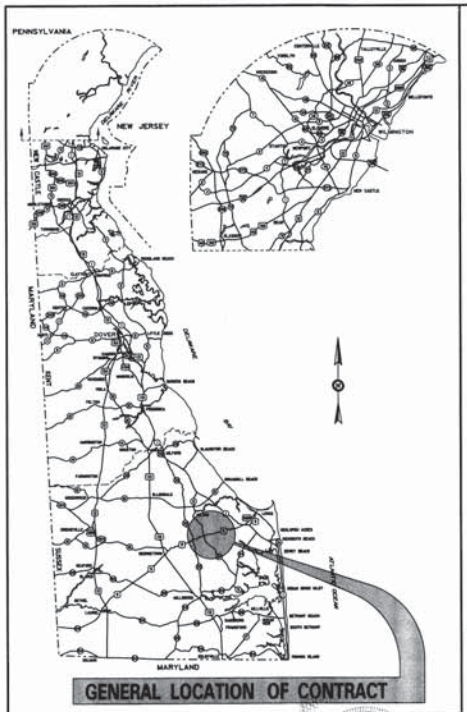
HSIP SUSSEX COUNTY
US 9 PROJECTS

CONTRACT NUMBER: T200800901

FEDERAL AID PROJECT NUMBER: ESTP-S999(88)

COUNTY: SUSSEX M.R. #: 18

UNOFFICIAL WEBSITE COPY

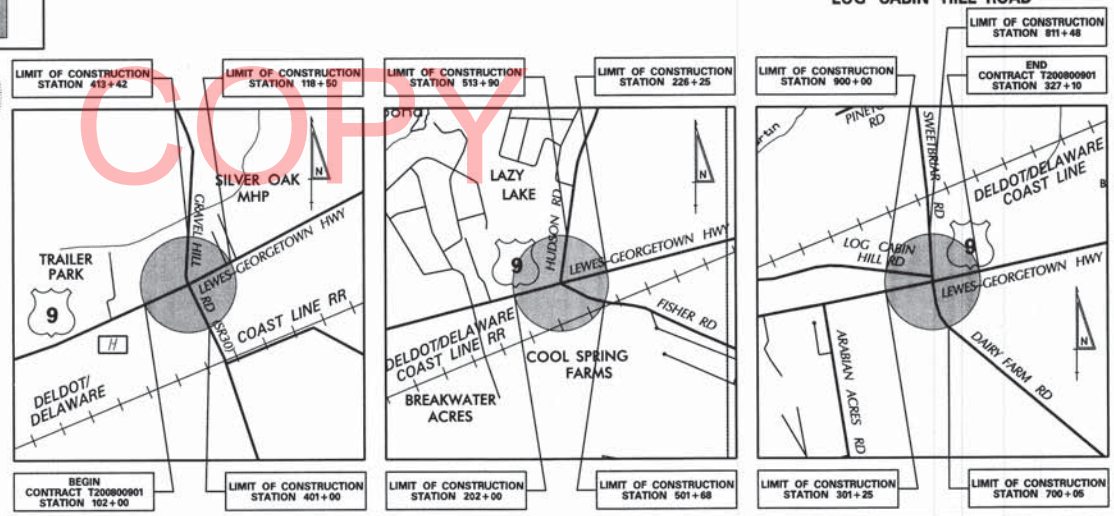


GENERAL LOCATION OF CONTRACT

LOCATION 1: US 9 / GRAVEL HILL ROAD

LOCATION 2: US 9 / HUDSON ROAD / FISHER ROAD

LOCATION 3: DAIRY FARM ROAD / SWEETBRIAR ROAD / LOG CABIN HILL ROAD



DESIGN DESIGNATION

US 9 (LEWES GEORGETOWN HIGHWAY)			
FUNCTIONAL CLASS: PRINCIPAL ARTERIAL		D.H.V. PROJECTED: 2,702	YEAR: 2030
TYPE OF CONSTRUCTION: INTERSECTION IMPROVEMENT		DESIGN SPEED: 50 M.P.H.	
A.A.D.T. CURRENT: 16,744	YEAR: 2008	TRUCKS: 6.8 %	
A.A.D.T. PROJECTED: 33,292	YEAR: 2030	DIRECTION OF DISTRIBUTION: 59.3 %	
GRAVEL HILL ROAD (SR 30)			
FUNCTIONAL CLASS: MAJOR COLLECTOR		D.H.V. PROJECTED: 892	YEAR: 2030
TYPE OF CONSTRUCTION: INTERSECTION IMPROVEMENT		DESIGN SPEED: 50 M.P.H.	
A.A.D.T. CURRENT: 3,083	YEAR: 2008	TRUCKS: 6.8 %	
A.A.D.T. PROJECTED: 9,199	YEAR: 2030	DIRECTION OF DISTRIBUTION: 56.4 %	
HUDSON ROAD AND FISHER ROAD			
FUNCTIONAL CLASS: MINOR COLLECTOR		D.H.V. PROJECTED: 319	YEAR: 2030
TYPE OF CONSTRUCTION: INTERSECTION IMPROVEMENT		DESIGN SPEED: 50 M.P.H.	
A.A.D.T. CURRENT: 1,788	YEAR: 2008	TRUCKS: 3.9 %	
A.A.D.T. PROJECTED: 2,955	YEAR: 2030	DIRECTION OF DISTRIBUTION: 55.5 %	
DAIRY FARM ROAD AND SWEETBRIAR ROAD			
FUNCTIONAL CLASS: MAJOR COLLECTOR		D.H.V. PROJECTED: 1,379	YEAR: 2030
TYPE OF CONSTRUCTION: INTERSECTION IMPROVEMENT		DESIGN SPEED: 50 M.P.H.	
A.A.D.T. CURRENT: 1,943	YEAR: 2008	TRUCKS: 3.9 %	
A.A.D.T. PROJECTED: 8,426	YEAR: 2030	DIRECTION OF DISTRIBUTION: 60.0 %	
LOG CABIN HILL ROAD			
FUNCTIONAL CLASS: LOCAL		D.H.V. PROJECTED: 102	YEAR: 2030
TYPE OF CONSTRUCTION: RECONSTRUCTION		DESIGN SPEED: 50 M.P.H.	
A.A.D.T. CURRENT: 364	YEAR: 2008	TRUCKS: 3.9 %	
A.A.D.T. PROJECTED: 563	YEAR: 2030	DIRECTION OF DISTRIBUTION: 66.7 %	

INDEX OF SHEETS

SHEET Nº	TABLE OF CONTENTS
1	TITLE
2-3	PLAN SHEET INDEX
4	LEGEND SHEET
5-7	GENERAL AND PROJECT NOTES
8-14	TYPICAL SECTIONS
15-17	HORIZONTAL AND VERTICAL CONTROL
18-22	CONSTRUCTION PLANS (GRAVEL HILL ROAD)
23-28	CONSTRUCTION PLANS (HUDSON AND FISHER ROADS)
29-36	CONSTRUCTION PLANS (SWEETBRIAR AND DAIRY FARM ROADS)
37-45	PROFILES
46-50	GRADES AND GEOMETRICS (GRAVEL HILL ROAD)
51-56	GRADES AND GEOMETRICS (HUDSON AND FISHER ROADS)
57-64	GRADES AND GEOMETRICS (SWEETBRIAR AND DAIRY FARM ROADS)
65	CONSTRUCTION DETAILS
66-71	STORMWATER MANAGEMENT PLANS
72-123	CONSTRUCTION PHASING, MOT AND E&S CONTROL
124-126	DETOUR PLANS
127-128	LANDSCAPING PLANS
129-132	LIGHTING PLANS
133-140	SIGNING, STRIPING & CONDUIT (GRAVEL HILL)
141-148	SIGNING, STRIPING & CONDUIT (HUDSON AND FISHER ROADS)
149-158	SIGNING, STRIPING & CONDUIT (SWEETBRIAR AND DAIRY FARM ROADS)
159-161	SIGNALIZATION PLANS

TOTAL SHEETS: 161

APPROVED DESIGN EXCEPTIONS

DESIGN PARAMETER	REQUIRED	PROVIDED	DATE
GRAVEL HILL RD - SUPERELEVATION	4%	0.8%	3/2/11
GRAVEL HILL RD - K VALUE (SAG)	115	45	3/2/11
HUDSON & FISHER RD - K VALUE (SAG)	96	45	3/2/11
HUDSON & FISHER RD - MIN. RADIUS	833	550	3/2/11

ADDENDA & REVISIONS

DESCRIPTION	NAME & DATE

ASSOCIATED CONTRACTS

CONTRACT NO.	CONTRACT NAME
1265	SR 18 - US 9
1794	SR 18 - US 9
1369	SR 248
122	SR 248
1542	ROAD NO. 257
78-053-01	ROADS 118-KENT, 247, 451, 579, 628

PREPARED BY
THE CONSULTING FIRM OF
WHITMAN REQUARDT & ASSOCIATES, LLP
ENGINEERS - ARCHITECTS - PLANNERS

SEAL

RECOMMENDED — DATE 10/15/2012

RECOMMENDED

Wayne Massey — SQUAD MANAGER, CONSTRUCTION — DATE 10-18-12

GROUP ENGINEER, CONSTRUCTION — DATE 10/18/2012

ASSISTANT DIRECTOR, TRANSPORTATION SOLUTIONS (CONSTRUCTION) — DATE

RECOMMENDED
Vincent W. Davis
STORMWATER ENGINEER
DATE 19 OCT 2012
SEAL

RECOMMENDED
SQUAD MANAGER, TRANSPORTATION SOLUTIONS (PROJECT DEVELOPMENT OR BRIDGE DESIGN)
DATE October 19, 2012
SEAL

RECOMMENDED
BRIDGE DESIGN ENGINEER
DATE
SEAL

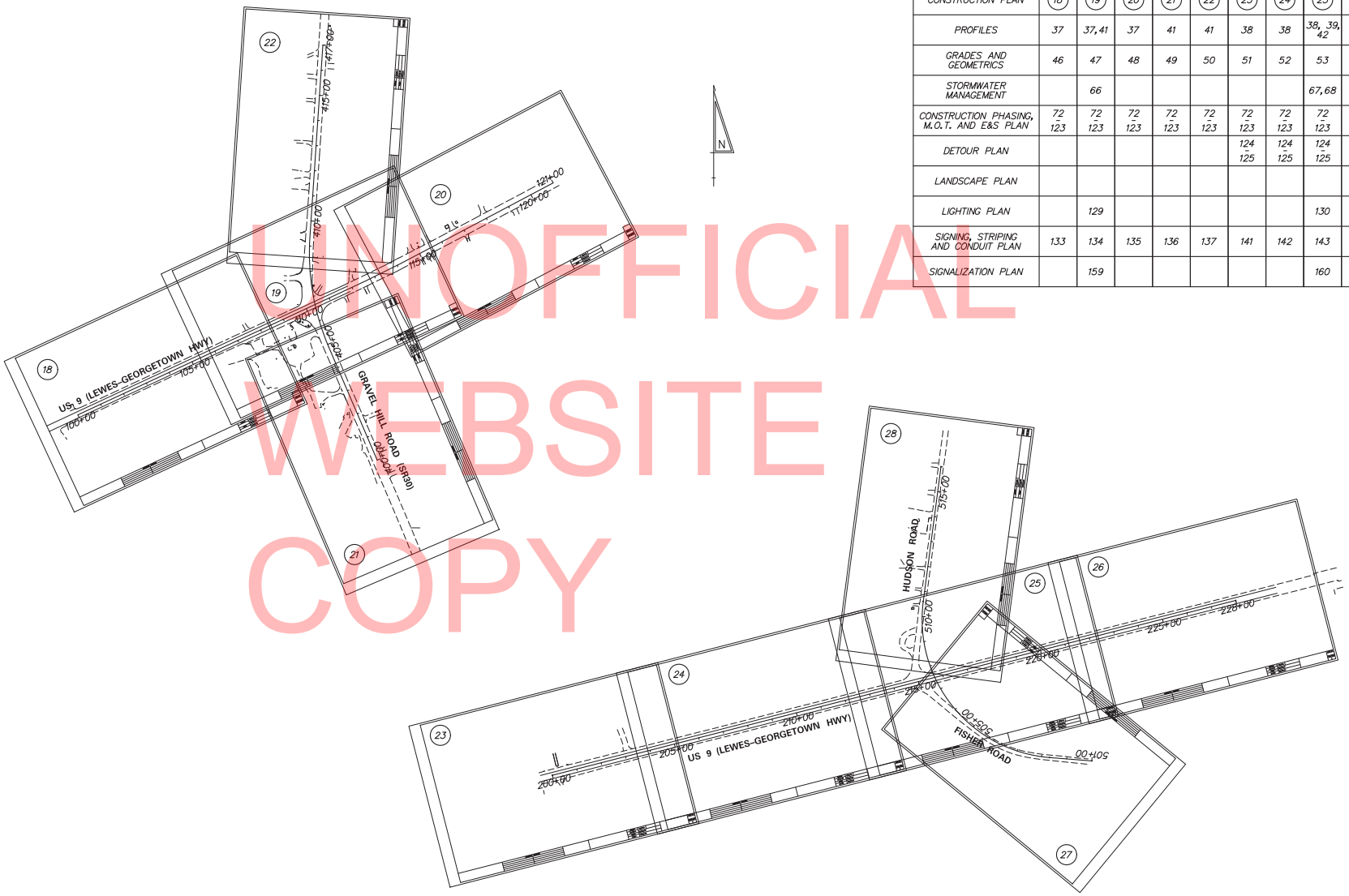
RECOMMENDED
GROUP ENGINEER, PROJECT DEVELOPMENT
DATE OCTOBER 19, 2012
SEAL

RECOMMENDED
ASSISTANT DIRECTOR, TRANSPORTATION SOLUTIONS
DATE 10/19/12
SEAL

APPROVED
Natalie Barnhart
CHIEF ENGINEER
DATE 10-19-12
SEAL

LAST REVISED: 8/7/2008
W:\MSV8\REFERENCES\PROJDEV\TC.DGN

PLAN SHEET INDEX CROSS REFERENCE											
CONSTRUCTION PLAN	18	19	20	21	22	23	24	25	26	27	28
PROFILES	37	37, 41	37	41	41	38	38	38, 39, 42	39	42	42
GRADES AND GEOMETRICS	46	47	48	49	50	51	52	53	54	55	56
STORMWATER MANAGEMENT		66						67, 68			
CONSTRUCTION PHASING, M.O.T. AND E&S PLAN	72 - 123	72 - 123	72 - 123	72 - 123	72 - 123	72 - 123	72 - 123	72 - 123	72 - 123	72 - 123	72 - 123
DETOUR PLAN						124 - 125	124 - 125	124 - 125	124 - 125	124 - 125	124 - 125
LANDSCAPE PLAN											
LIGHTING PLAN		129						130			
SIGNING, STRIPING AND CONDUIT PLAN	133	134	135	136	137	141	142	143	144	145	146
SIGNALIZATION PLAN		159						160			

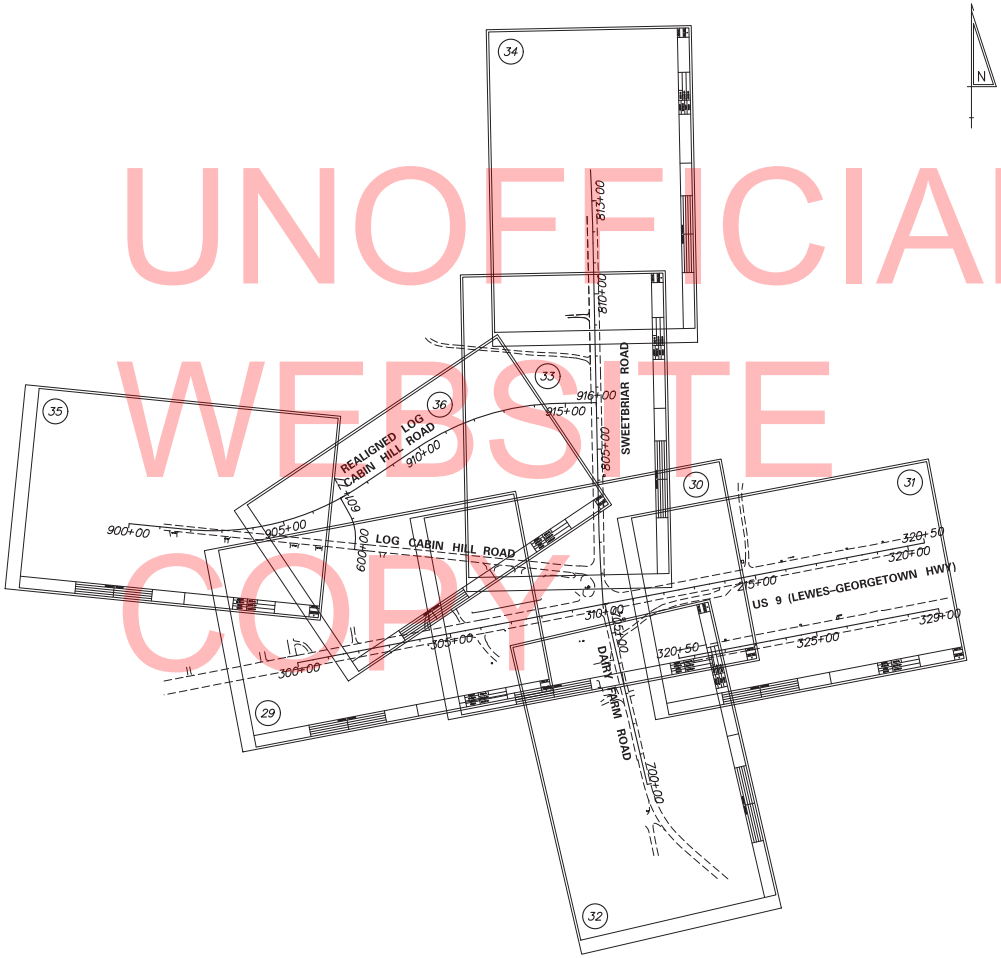


UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\SD1\S3-.dgn
2/26/2013 2:09:13 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 200 400 600 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	PLAN SHEET INDEX	SHEET NO. 2
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

PLAN SHEET INDEX CROSS REFERENCE								
CONSTRUCTION PLAN	29	30	31	32	33	34	35	36
PROFILES	40	40, 43, 44	40	43	44, 45	44	45	43, 45
GRADES AND GEOMETRICS	57	58	59	60	61	62	63	64
STORMWATER MANAGEMENT		69, 70			69, 70		71	69-71
CONSTRUCTION PHASING, M.O.T. AND E&S PLAN	72 - 123	72 - 123	72 - 123	72 - 123	72 - 123	72 - 123	72 - 123	72 - 123
DETOUR PLAN	126	126	126	126	126	126	126	126
LANDSCAPE PLAN							124	
LIGHTING PLAN			131					
SIGNING, STRIPING AND CONDUIT PLAN	149	150	151	152	153	154	155	156
SIGNALIZATION PLAN			161					



UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\S0201S9.dgn
2/26/2013 2:09:22 PM

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 200 400 600 FEET

HSIP SUSSEX COUNTY US 9 PROJECTS

CONTRACT	BRIDGE NO.	N/A
T200800901	DESIGNED BY: J.L.R.	
COUNTY		
SUSSEX	CHECKED BY: R.R.W.	

PLAN SHEET INDEX

SHEET NO.
3
TOTAL SHTS.
161

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
PL	EXISTING PROPERTY LINE
EASEMENT TYPE	EXISTING EASEMENT
DA	EXISTING DENIAL OF ACCESS
R/W-DA	EXISTING R/W & DENIAL OF ACCESS

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

UTILITY	
	SOIL BORING LOCATION
	UTILITY TEST HOLE LOCATION
TV	CABLE TV DISTRIBUTION BOX
E	ELECTRIC MANHOLE
EM	ELECTRIC METER
E	ELECTRIC TRANSFORMER
	POLE MOUNTED LUMINAIRE
G	GAS MANHOLE
G.M.	GAS METER
G.V.	GAS VALVE
G.P.	GAS PUMP - SERVICE STATION
	RAILROAD TRACKS
S	SANITARY SEWER MANHOLE
S.V.	SANITARY SEWER VALVE
VENT	SANITARY SEWER VENT OR CLEANOUT
S.D.F.	SEPTIC DRAIN FIELD
B	TELEPHONE BOOTH
T	TELEPHONE MANHOLE
T	TELEPHONE TEST POINT
J.W.	TRAFFIC - CONDUIT JUNCTION WELL
B	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	
DEC-E	DELAWARE ELECTRIC COOPERATIVE
DP-E	DELMARVA POWER - ELECTRIC
SC-S	SUSSEX COUNTY SEWER
VER-C	VERIZON
VER-FO	VERIZON - FIBER OPTIC
AW-W	ARTESIAN WATER COMPANY - WATER
AW-S	ARTESIAN WATER COMPANY - SEWER
COM-C	COMCAST CABLE

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

LANDSCAPING	
L.S.	LANDSCAPE PLANTINGS
	SHRUBBERY
	CONIFEROUS TREE
	DECIDUOUS TREE

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

PAVEMENT SECTION(S)	
	OVERLAY PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS
	RECONSTRUCTED PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS
	DRIVEWAY AND ENTRANCE PAVEMENT - SEE PROJECT NOTES

MISCELLANEOUS	
	PROPOSED UTILITY POLE
AB/C	ABANDON BY CONTRACTOR
	8" GABC, TYPE B
T	PROPOSED TELEPHONE TEST POINT
VER-C	PROPOSED VERIZON
F.H.	PROPOSED FIRE HYDRANT

EROSION & SEDIMENT CONTROL	
DWB	DEWATERING BASIN
	EROSION CONTROL BLANKET
ED	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
PST	PORTABLE SEDIMENT TANK
RSF	REINFORCED SILT FENCE
SBD	SANDBAG DIKE
SB	SANDBAG DIVERSION
	STONE CHECK DAM
SCE	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE
SP-1	SUMP PIT, TYPE 1
SP-2	SUMP PIT, TYPE 2
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP WITH INLET AS OUTLET
ST	SEDIMENT TRAP PIPE OUTLET
SW	STILLING WELL
	TEMPORARY SWALE
TSD	TEMPORARY SLOPE DRAIN

NO OFICIAL
WEBSITE
COPY

N:\31606-007\CADD\LG015.59.dgn
2/26/2013 2:09:24 PM

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

NOT TO SCALE

HSIP SUSSEX COUNTY
US 9 PROJECTS

CONTRACT	BRIDGE NO. N/A
T200800901	DESIGNED BY: J.L.R.
COUNTY	
SUSSEX	CHECKED BY: R.R.W.

LEGEND

SHEET NO.
4
TOTAL SHTS.
161

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. THE CONTRACTOR SHALL GIVE TWO (2) WEEKS NOTICE TO THE PROPERTY OWNER WHEN ANY FIXTURE, SHRUB OR OTHER OBJECT MUST BE REMOVED FROM THE RIGHT OF WAY OR EASEMENT AREA. IF THE OWNER HAS NOT ATTEMPTED TO SALVAGE THIS PROPERTY, THE CONTRACTOR SHALL REMOVE IT WITHOUT OBLIGATION. COMPENSATION SHALL BE INCIDENTAL TO THE CONTRACT.

3. THE ENDS OF ALL CURBS SHALL BE DEPRESSED FLUSH WITH THE PAVEMENT AT A RATIO OF TWELVE TO ONE (12:1) UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

4. THE CONTRACTOR SHALL PROVIDE AND INSTALL PVC SLEEVES (4" INSIDE MINIMUM DIAMETER, 6" INSIDE MAXIMUM DIAMETER) IN PROPOSED CONCRETE SIDEWALKS, ISLANDS, AND MEDIANS FOR FUTURE TRAFFIC SIGN POSTS AS DIRECTED BY THE ENGINEER. THE LOWER END OF THE SLEEVE SHALL SIT ON THE TOP OF THE SUBBASE MATERIAL. THE COST SHALL BE INCIDENTAL TO THE CONTRACT.

5. STAGING AREAS - PROPER EROSION AND SEDIMENT CONTROL MEASURES AS DETERMINED BY THE ENGINEER SHALL BE INSTALLED IN ALL STAGING AREAS. ALL AREAS USED BY THE CONTRACTOR FOR STAGING OPERATIONS SHALL BE FULLY RESTORED BY THE CONTRACTOR UPON COMPLETION OF THE CONTRACT. IF THE STAGING AREA IS PAVED, IT SHALL BE RESTORED TO ITS ORIGINAL CONDITION. IF THE AREA IS UNPAVED, IT SHALL BE RE-GRADED, TOPSOILED, SEEDED AND MULCHED IN ACCORDANCE WITH DELAWARE STANDARD SPECIFICATIONS 732, 734 AND 735, FOR TOPSOIL, SEED AND MULCH RESPECTIVELY, TO THE SATISFACTION OF THE ENGINEER. THE SEED SHALL ADHERE TO THE SPECIFICATIONS OF SECTION 734 FOR PERMANENT GRASS SEEDING - DRY GROUND. ALL COSTS ASSOCIATED WITH RESTORATION OF THE STAGING AREA SHALL BE AT THE CONTRACTOR'S EXPENSE. IF THE ENGINEER DETERMINES THAT A SATISFACTORY STAND OF GRASS DOES NOT EXIST AT THE TIME OF FINAL INSPECTION, ALL COSTS ASSOCIATED WITH REESTABLISHING A SATISFACTORY STAND OF GRASS SHALL BE AT THE CONTRACTOR'S EXPENSE.

6. SITE REVIEWER - AN EROSION CONTROL SITE REVIEWER SHALL BE A PERSON FROM THE CONTRACTOR'S STAFF ASSIGNED TO EROSION AND SEDIMENT CONTROL IMPLEMENTATION AND MAINTENANCE AND SHALL BE REQUIRED ON SPECIFIC PROJECTS. THE NAME AND DNREC CERTIFICATION NUMBER OF EACH SITE REVIEWER SO REQUIRED SHALL BE SUBMITTED TO THE DEPARTMENT. THE NAME OF THE DELAWARE REGISTERED PROFESSIONAL ENGINEER PROVIDING DIRECTION AND SUPERVISION OF THE SITE REVIEWER, AS REQUIRED IN SECTION 12.3 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS, SHALL ALSO BE SUBMITTED TO THE DEPARTMENT. THE SITE REVIEWER REQUIREMENTS IN EFFECT ON THIS PROJECT SHALL BE MARKED WITH AN "X" BELOW:

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

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

( )	NONE
(X)	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.

8. 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.

9. THE DISTURBED AREA FOR THIS PROJECT IS 25.35 ACRES.

10. 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.

11. 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. PROPOSED UTILITY RELOCATIONS ARE SHOWN ON THE PLANS AND SHALL BE INSTALLED BY THE RESPECTIVE UTILITY COMPANY, UNLESS OTHERWISE NOTED. REFER TO UTILITY STATEMENT FOR DETAILED SCOPE AND TIMING OF UTILITY WORK.

2. 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.

3. DUST SHALL BE CONTROLLED EXCLUSIVELY THROUGH THE USE OF WATER. COSTS ASSOCIATED WITH THE FURNISHING AND APPLICATION OR WATER FOR DUST CONTROL SHALL BE INCIDENTAL TO THE CONTRACT BID ITEMS.

SECTION 200

1. 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.

2. 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.

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. ITEMS TO BE REMOVED UNDER ITEM 211000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
   - CONCRETE SUPPORT FOUNDATIONS FOR MISCELLANEOUS SMALL STRUCTURES NOT COVERED UNDER OTHER PAY ITEMS
   - DRAINAGE STRUCTURES: STA. 114+07, 27' LT.
     STA. 115+08, 27' LT.
     STA. 309+59, 31' LT.
     STA. 309+87, 21' RT.
     STA. 405+71, 35' LT.

5. ALL EXISTING PIPES TO BE ABANDONED WHERE NO EXCAVATION WILL TAKE PLACE, INCLUDING BELOW EXISTING TRAVEL LANES, TURN LANES, AND SHOULDERS, SHALL BE FILLED WITH ITEM 208001 - FLOWABLE FILL. ALL EXISTING PIPES TO BE ABANDONED WITHIN OR BELOW THE PROPOSED FULL DEPTH PAVEMENT BOX SHALL BE ENTIRELY REMOVED OR FILLED WITH ITEM 208001 - FLOWABLE FILL AS INDICATED ON THE PLANS. PAYMENT FOR PIPE REMOVAL SHALL BE INCLUDED UNDER ITEM 202000 - EXCAVATION AND EMBANKMENT.

6. ALL EXISTING STORM DRAIN STRUCTURES AND PIPES LOCATED WITHIN LIMIT OF CONSTRUCTION TO BE REMOVED UNLESS IDENTIFIED BY "DND" OR AS DESCRIBED IN SECTION 200, NOTE 5.

SECTION 300

1. 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, HOT-MIX 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

1. THE PAVEMENT SECTION FOR HOT-MIX RESIDENTIAL DRIVEWAYS SHALL BE 2" SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22 OVER 8" GRADED AGGREGATE BASE COURSE, TYPE 'B' UNLESS OTHERWISE NOTED ON THE PLANS.

SECTION 600

1. 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.

2. NO ALTERNATE PIPE MATERIALS WILL BE ACCEPTED AND THE PIPE BID ITEM SHALL BE FOR THE SPECIFIC TYPE OF PIPE MATERIAL.

UNOFFICIAL WEBSITE COPY

PROJECT NOTES CONTINUED

SECTION 700

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

2. 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.

3. SINCE THIS PROJECT IS ANTICIPATED TO EXTEND OVER A WINTER PERIOD, THE CONTRACTOR IS NOTIFIED THAT SNOW REMOVAL WILL BE HANDLED BY STATE FORCES. MAINTENANCE OF TRAFFIC CONTROL DEVICES FOLLOWING SNOW REMOVAL OPERATION SHALL BE PERFORMED BY CONTRACTOR AND SHALL BE INCIDENTAL TO ITEM 763500 - MAINTENANCE OF TRAFFIC.

4. THE CONTRACTOR SHALL INSTALL AND REMOVE THE REGULATORY, WARNING AND SPECIAL SIGNS AND POSTS WITHIN THE CONTRACT LIMITS, AS SHOWN. DELDOT SHALL FABRICATE AND SUPPLY THE REGULATORY, WARNING AND SPECIAL SIGNS AND POSTS TO THE CONTRACTOR. FOR COORDINATION AND PICK UP OF ALL SIGNS AND POSTS, THE CONTRACTOR SHALL CONTACT DELDOT'S SIGN SHOP AT (302) 760-2581. ALLOW 4 WEEKS FOR DELIVERY. ALL SIGNING MATERIALS REMOVED FROM THE PROJECT SHALL BE RETURNED TO THE DELDOT SIGN SHOP.

5. RAISED/RECESSED PAVEMENT MARKERS (RPMS) (ITEM 748502) SHALL BE INSTALLED ALONG ALL NEW ROADWAY SURFACES WITHIN THE PROJECT LIMITS IN ACCORDANCE WITH THE FIGURE 3B-15D (CENTER LINES AND CURVES) AND FIGURE 3B-15H (CENTER LINES, TURN LANES, AND FLUSH MEDIANS) OF THE 2011 DE MUTCD. ADDITIONALLY, CENTER LINE RPMS SHALL BE INSTALLED BY THE CONTRACTOR ALONG THE EXISTING ROADWAY SURFACE OF DAIRY FARM ROAD BETWEEN THE SOUTHERN PROJECT LIMITS (STATION 700+05) AND BEAVER DAM ROAD.

MISCELLANEOUS

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

2. CROSS SECTIONS USED IN THE PREPARATION OF THIS CONTRACT ARE AVAILABLE FROM THE DEPARTMENT AFTER THE PROJECT HAS BEEN AWARDED.

3. 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.

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

5. CONTRACTOR SHALL CONTACT DELAWARE COOPERATIVE ELECTRIC (DEC) TO COORDINATE RELOCATION OF DEC CONDUIT DURING PLACEMENT OF P-25 (STA. 705+43).

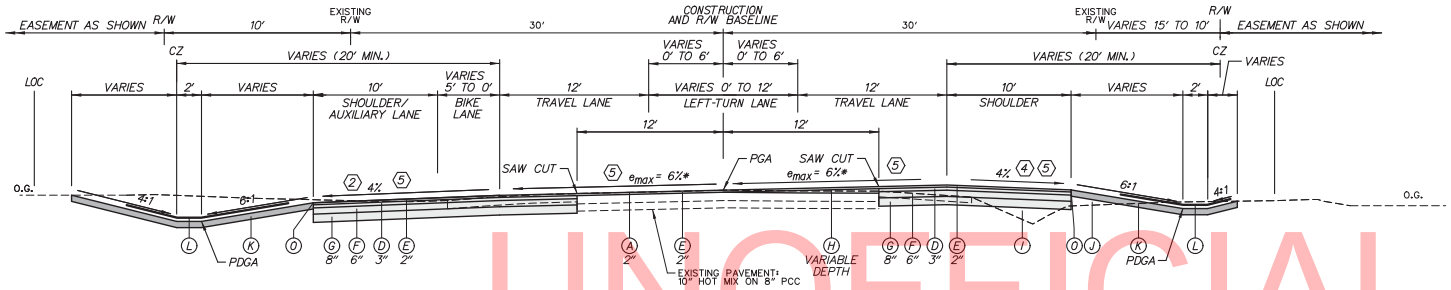
6. CONTRACTOR'S ACCESS BEYOND THE LIMIT OF CONSTRUCTION (LOC) IS STRICTLY PROHIBITED FROM STA. 321+50 TO STA. 322+50, LEFT.

UNOFFICIAL WEBSITE COPY

	US 9/SR 30 (GRAVEL HILL)		US 9/HUDSON RD/FISHER RD		US 9/DAIRY FARM RD./SWEETBRIAR RD.					
	US 9	SR 30 (GRAVEL HILL ROAD)	US 9	HUDSON RD/ FISHER RD	US 9	DAIRY FARM ROAD	SWEETBRIAR ROAD	LOG CABIN HILL ROAD	ACCESS ROAD	
	102+00 TO 117+75	401+00 TO 413+00	222+00 TO 226+25	501+68 TO 513+54	301+25 TO 326+60	700+56 TO 705+97	800+47 TO 811+48	900+55 TO 915+80	600+25 TO 601+56	PROJECT TOTALS
EXCAVATION - ITEM 202000 (CY) [NEED = '-' / EXCESS = '+']										
EX01 : FROM CROSS SECTIONS / MODELS (+)	3,165	2,266	4,340	3,897	4,377	1,151	3,466	3,323	257	26,242
EX02 : BITUMINOUS PAVEMENT REMOVED IN FILL SECTIONS (+)	3	18	18	140	0	6	10	271	0	466
EX03 : TOPSOIL REMOVED UNDER FILL SECTIONS (+)	237	277	247	148	328	168	177	280	0	1,862
EX04 : TOPSOIL PLACED IN CUT SECTIONS (+) (Included in EX01)	0	0	0	0	0	0	0	0	0	0
EX05 : ROOT MAT REMOVED(-)	0	0	29	0	6	0	184	2,792	257	3,268
EX06 : CURB AND/OR CURB AND GUTTER EXCAVATION (-)	0	0	0	0	0	0	0	0	0	0
EX07 : UNDERDRAIN EXCAVATION (-)	0	0	0	0	0	0	0	0	0	0
EX08 : ROCK EXCAVATION (-)	0	0	0	0	0	0	0	0	0	0
EX09 : REMOVAL OF PCC PAVEMENT, CURBS, SIDEWALK, ETC. (-)	34	0	82	0	78	0	0	0	0	194
EXTOTAL : TOTAL EXCAVATION	3,371	2,561	4,494	4,185	4,621	1,325	3,469	1,082	0	25,108
STORMWATER MANAGEMENT POND EXCAVATION - ITEM 271000 (CY) [NEED = '-' / EXCESS = '+']										
SWEX01 : FROM CROSS SECTIONS / MODELS (+)	984	0	0	6,921	0	0	0	0	0	7,905
SWEX02 : TOPSOIL REMOVED UNDER FILL SECTIONS (+)	0	0	0	0	0	0	0	0	0	0
SWEX03 : TOPSOIL PLACED IN CUT SECTIONS (+)	154	0	0	748	0	0	0	0	0	902
SWEX04 : ROOT MAT REMOVED (-)	58	0	0	0	0	0	0	0	0	58
SWEX05 : ROCK EXCAVATION (-)	0	0	0	0	0	0	0	0	0	0
SWEXTOTAL : TOTAL STORMWATER MANAGEMENT POND EXCAVATION	1,080	0	0	7,669	0	0	0	0	0	8,749
EXCAVATION AVAILABLE FOR EMBANKMENT (CY) [NEED = '-' / EXCESS = '+']										
EXTOTAL : TOTAL EXCAVATION (+) [ITEM 202000]	3,371	2,561	4,494	4,185	4,621	1,325	3,469	1,082	0	25,108
SWEXTOTAL : TOTAL STORMWATER MANAGEMENT POND EXCAVATION (+) [ITEM 271000]	1,080	0	0	7,669	0	0	0	0	0	8,749
AVEX01 : EXCAVATION AND BACKFILLING FOR STRUCTURES (+) [ITEM 207000]	0	0	0	0	0	0	0	0	0	0
AVEX02 : EXCAVATION AND BACKFILLING FOR PIPE TRENCHES(+) [ITEM 208000 + PIPIS < 24" IN DIAMETER]	285	65	0	0	800	10	57	0	0	1,217
AVEX03 : CHANNEL EXCAVATION (+) [ITEM 203000]	0	0	0	0	0	0	0	0	0	0
AVEX04 : EXCAVATION FROM LATERAL OR LONGITUDINAL DITCHING (+) [ITEM 714000]	0	0	0	0	0	0	0	0	0	0
AVEX05 : EXCAVATION FROM CURBS AND/OR CURB AND GUTTER (+)	0	0	0	0	0	0	0	0	0	0
AVEX06 : EXCAVATION FROM UNDERDRAINS (+) [ITEM 715000X]	0	0	0	0	0	0	0	0	0	0
AVEX07 : MISCELLANEOUS EXCAVATIONS (+)	198	0	0	748	0	0	0	0	0	946
AVEX08 : TOPSOIL REMOVED IN CUT AND/OR FILL SECTIONS (-)	1,018	891	1,022	1,342	1,156	547	955	458	0	7,389
AVEX09 : TOPSOIL REMOVED IN CUT AND/OR FILL SECTIONS FOR STORMWATER MANAGEMENT PONDS (-)	198	0	0	748	0	0	0	0	0	946
AVEX10: UNSUITABLE MATERIALS (-) (SEE NOTE:)	1,030	870	1,666	1,009	1,360	263	742	226	0	7,166
AVEXTOTAL : TOTAL EXCAVATION AVAILABLE FOR EMBANKMENT	2,688	865	1,806	9,503	2,905	525	1,829	398	0	20,519
EMBANKMENT AND BORROW, TYPE 'F' REQUIRED (CY) [NEED = '-' / EXCESS = '+']										
EMRF01 : FROM CROSS SECTIONS / MODEL (+) [EMBANKMENT REQUIRED BELOW SUBGRADE OR CAPPING]	260	295	306	175	456	697	207	3,556	315	6,267
EMRF02 : TOPSOIL REMOVED UNDER FILL (+) (Included in EMRF01)	0	0	0	0	0	0	0	0	0	0
EMRF03 : ROOT MAT REMOVED UNDER FILL (+) (Included in EMRF01)	0	0	0	0	0	0	0	0	0	0
EMRF04 : UNSUITABLE MATERIAL REMOVED UNDER FILL (+) (Included in EMRF01)	0	0	0	0	0	0	0	0	0	0
EMRF05 : PCC REMOVED UNDER FILL (+) (Included in EMRF01)	0	0	0	0	0	0	0	0	0	0
EMRF06 : BITUMINOUS PAVEMENT REMOVED UNDER FILL (+) (Included in EMRF01)	0	0	0	0	0	0	0	0	0	0
EMRF07 : TOPSOIL TO BE PLACED IN FILL (+) (Included in EMRF01)	0	0	0	0	0	0	0	0	0	0
EMRF08 : SUBTOTAL OF EMBANKMENT AND BORROW, TYPE 'F' REQUIRED	260	295	306	175	456	697	207	3,556	315	6,267
EMRF09 : COMPACTION FACTOR APPLIED TO THE SUBTOTAL (29%)	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	
EMRFTOTAL : TOTAL EMBANKMENT AND BORROW, TYPE 'F' REQUIRED	312	354	367	210	547	836	248	4,267	378	7,519
TOPSOIL SUMMARY (CY) [NEED = '-' / EXCESS = '+']										
TOP01 : TOPSOIL SALVAGED FROM CUT SECTIONS (+)	781	614	775	1194	828	379	778	178	0	5527
TOP02 : TOPSOIL SALVAGED FROM FILL SECTIONS (+)	237	277	247	148	328	168	177	280	0	1862
TOP03 : TOPSOIL SALVAGED FROM STORMWATER MANAGEMENT PONDS (+)	198	0	0	748	0	0	0	0	0	946
TOP04 : TOPSOIL REQUIRED (-)	2094	902	1178	743	1975	370	933	1568	0	9763
TOPTOTAL : TOTAL TOPSOIL	-878	-11	-156	1,347	-819	177	22	-1,110	0	-1,428
MATERIAL BALANCE (CY) [NEED = '-' / EXCESS = '+']										
BORROW, TYPE 'A'	-184.00	-85.25	-116.00	-148.50	-251.75	-291.50	-68.50	-3,401.50	-835.00	-5,382.00
BORROW, TYPE 'B'	-15.00	-3.75	-15.00	-7.50	-11.25	-7.50	-7.50	-7.50		-75.00
BORROW, TYPE 'C'										0.00
BORROW, TYPE 'F'	2,376.00	511.00	1,439.00	9,293.00	2,358.00	-311.00	1,581.00	-3,869.00	-378.00	13,000.00
TOPSOIL	-878.00	-11.00	-156.00	1,347.00	-819.00	177.00	22.00	-1,110.00	0.00	-1,428.00
UNSUITABLE MATERIAL	1,030.00	870.00	1,666.00	1,009.00	1,360.00	263.00	742.00	226.00	0.00	7,166.00

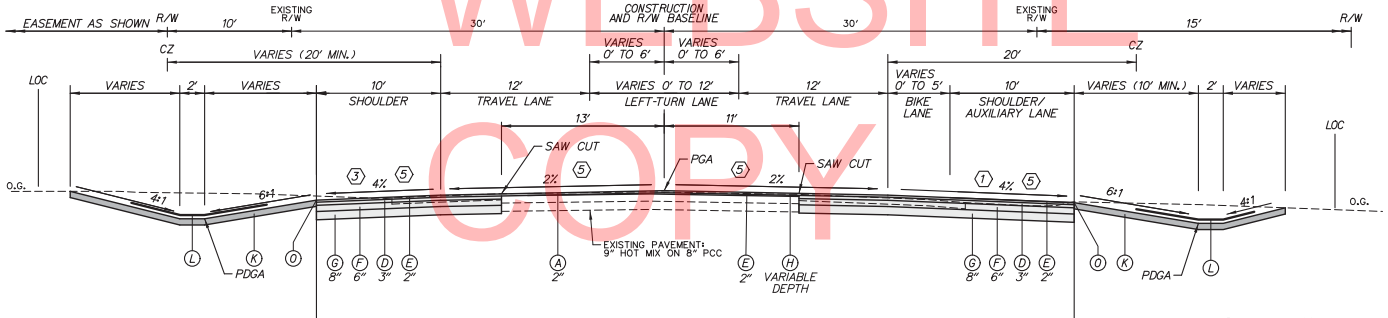
NOTE: UNSUITABLE MATERIAL INCLUDED BUT NOT LIMITED TO THE IOLLOWING: BITIMINOUS PAVEMENT IN CUT AND ETC.

UNOFFICIAL WEBSITE COPY

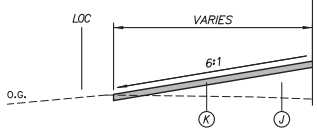


US 9 (LEWES–GEORGETOWN HIGHWAY)
STATION 110+25 TO STATION 117+75

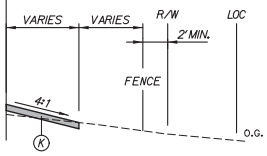
* SEE GRADES AND GEOMETRICS FOR CROSS SLOPES AND LIMITS OF SUPERELEVATION TRANSITIONS. e_d = 2.0%



US 9 (LEWES–GEORGETOWN HIGHWAY)
STATION 102+00 TO STATION 110+25



STATION 102+00 TO STATION 106+50



STATION 102+00 TO STATION 107+50

LEGEND

- (A) ITEM 760507 - PROFILE MILLING, HOT-MIX
- (B) ITEM 401810 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22
- (C) ITEM 401827 - WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON-CARBONATE STONE)
- (D) ITEM 401813 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 70-22
- (E) ITEM 401830 - WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 70-22 (NON-CARBONATE STONE)
- (F) ITEM 401819 - WMA, SUPERPAVE, B.C.B.C., 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 401824 - WMA, SUPERPAVE, TYPE C, 160 GYR., PG 64-22, WEDGE
- (I) ITEM 209001 - BORROW, TYPE A (UNDER ROADWAY TEMPLATE)
- (J) SUITABLE EXCAVATED MATERIAL MEETING REQUIREMENTS OF BORROW, TYPE F (OUTSIDE OF ROADWAY TEMPLATE)
- (K) ITEM 732002 - TOPSOIL, 6" DEPTH OR ITEM 733002 - TOPSOILING 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
- (L) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (1 ROLL WIDTH MIN.)
- (M) ITEM 302011 - DELAWARE NO. 3 STONE
- (N) ITEM 713002 - GEOTEXTILE, SEPARATION (SIDE WALLS ONLY)
- (O) ITEM 401752 - SAFETY EDGE (INCIDENTAL TO RESPECTIVE WMA ITEMS)

NOTES:

1. THE POINT OF GRADE APPLICATION (PGA) IS APPLIED FROM THE TOP OF THE FINAL PAVING SURFACE.
2. THE POINT OF DITCH GRADE APPLICATIONS (PDGA) SHALL BE APPLIED TO THE TOE OF FORESLOPE.
3. BORROW TYPE 'A' SHALL BE USED AS FILL UNDER ROADWAY FOOTPRINT. MATERIAL MEETING BORROW TYPE 'F' SHALL BE USED OUTSIDE OF ROADWAY FOOTPRINT. ROADWAY FOOTPRINT IS DEFINED AS OUTSIDE EDGE OF ROADWAY PAVEMENT OR CURB AND GUTTER. USE OF BORROW TYPE 'A' SHALL BE LIMITED TO A MAXIMUM OF 1 FOOT BELOW PAVEMENT SUBGRADE. BORROW TYPE 'F' SHALL BE USED UNDER BORROW TYPE 'A'.
4. PROPOSED DITCHES SHALL BE TIED IN TO EXISTING DITCHES OVER 50 FEET.
5. PAVEMENT LIFT NOTE:
   THE MAXIMUM LIFTS FOR THE INDIVIDUAL PAVING MATERIALS ARE AS FOLLOWS:
   SUPERPAVE, TYPE C HOT-MIX - 2"
   SUPERPAVE, TYPE B HOT-MIX - 3"
   SUPERPAVE BIT. CONC. BASE COURSE - 6"
   GRADED AGGREGATE BASE COURSE - 8"

(1) VARIES FROM 4% AT STA. 106+14 TO 2% AT STA. 106+64
2% FROM STA. 106+64 TO STA. 109+49

(2) 2% FROM STA. 111+39 TO STA. 113+46
VARIES FROM 2% AT STA. 113+46 TO 4% AT STA. 113+96

(3) VARIES FROM 4% AT STA. 109+24 TO 2% AT STA. 109+74

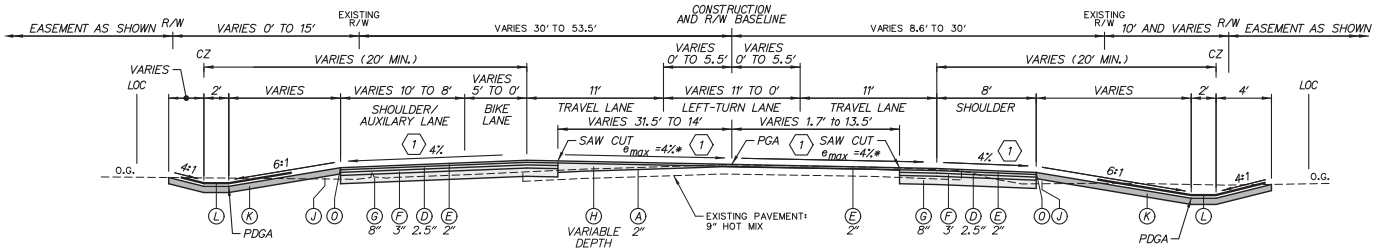
(4) VARIES FROM 2% AT STA. 111+07 TO 2% AT STA. 111+57

(5) CROSS SLOPE TRANSITIONS BETWEEN PROPOSED AND EXISTING:
STA. 102+00 TO STA. 103+00
STA. 116+75 TO STA. 117+50

UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\T50\US9.dgn
4/24/2013 3:43:31 PM

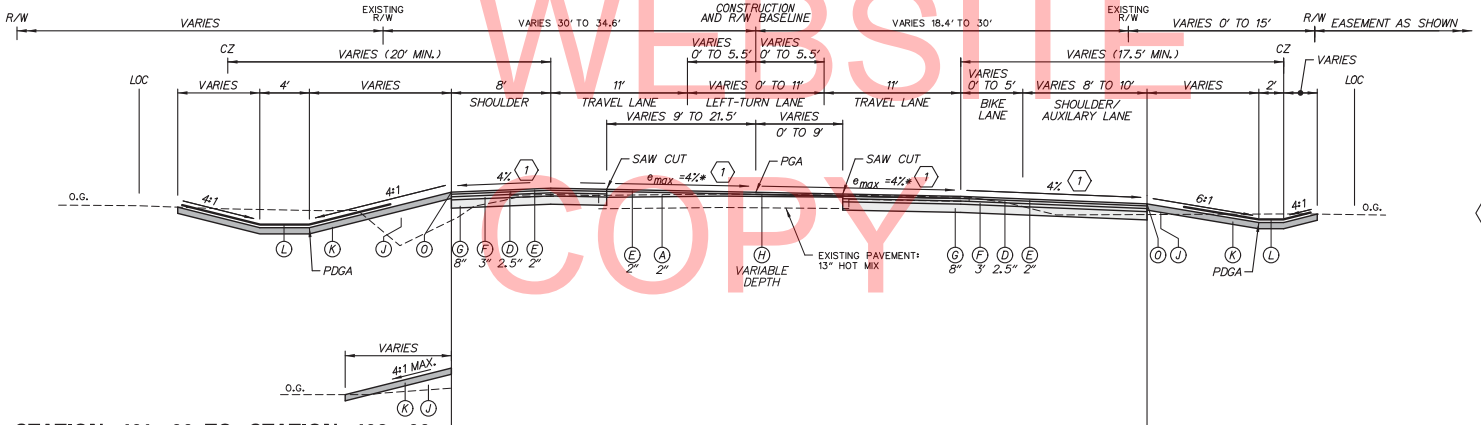
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	TYPICAL SECTIONS	SHEET NO. 8
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		



GRAVEL HILL ROAD (SR 30)

STATION 406+65 TO STATION 413+00

* SEE GRADES AND GEOMETRICS FOR CROSS SLOPES AND LIMITS OF SUPERELEVATION TRANSITIONS e_d = 4.0%



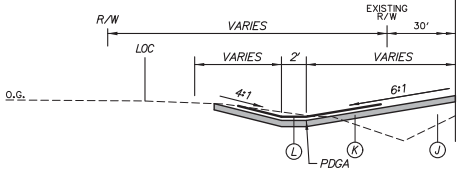
STATION 401+00 TO STATION 402+00

STATION 404+00 TO STATION 404+50

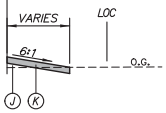
GRAVEL HILL ROAD (SR 30)

STATION 401+00 TO STATION 406+65

* SEE GRADES AND GEOMETRICS FOR CROSS SLOPES AND LIMITS OF SUPERELEVATION TRANSITIONS e_d = 4.0%



STATION 404+50 TO STATION 406+25



STATION 401+00 TO STATION 403+00

LEGEND

- (A) ITEM 760507 - PROFILE MILLING, HOT-MIX
- (B) ITEM 401810 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22
- (C) ITEM 401827 - WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON-CARBONATE STONE)
- (D) ITEM 401813 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 70-22
- (E) ITEM 401830 - WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 70-22 (NON-CARBONATE STONE)
- (F) ITEM 401819 - WMA, SUPERPAVE, B.C.B.C., 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 401824 - WMA, SUPERPAVE, TYPE C, 160 GYR., PG 64-22, WEDGE
- (I) ITEM 209001 - BORROW, TYPE A (UNDER ROADWAY TEMPLATE)
- (J) SUITABLE EXCAVATED MATERIAL MEETING REQUIREMENTS OF BORROW, TYPE F (OUTSIDE OF ROADWAY TEMPLATE)
- (K) ITEM 732002 - TOPSOIL, 6" DEPTH OR ITEM 733002 - TOPSOILING 6" DEPTH ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
- (L) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (1 ROLL WIDTH MIN.)
- (M) ITEM 302011 - DELAWARE NO. 3 STONE
- (N) ITEM 713002 - GEOTEXTILE, SEPARATION (SIDE WALLS ONLY)
- (O) ITEM 401752 - SAFETY EDGE (INCIDENTAL TO RESPECTIVE WMA ITEMS)

NOTES:

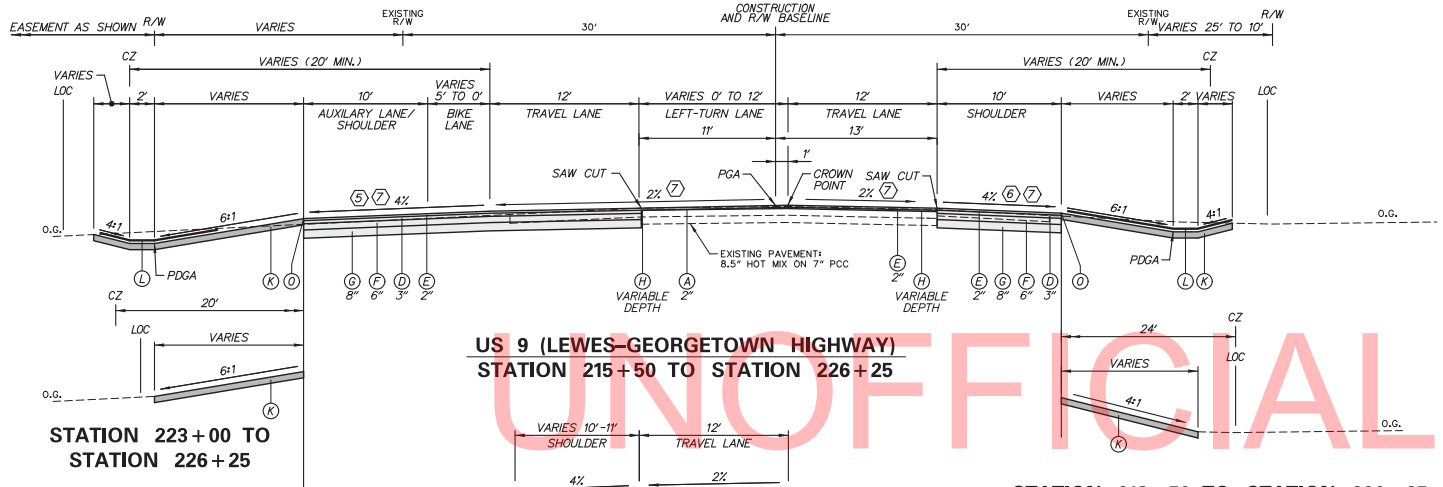
1. THE POINT OF GRADE APPLICATION (PGA) IS APPLIED FROM THE TOP OF THE FINAL PAVING SURFACE.
2. THE POINT OF DITCH GRADE APPLICATIONS (PDGA) SHALL BE APPLIED TO THE TOE OF FORESLOPE.
3. BORROW TYPE 'A' SHALL BE USED AS FILL UNDER ROADWAY FOOTPRINT. MATERIAL MEETING BORROW TYPE 'F' SHALL BE USED OUTSIDE OF ROADWAY FOOTPRINT. ROADWAY FOOTPRINT IS DEFINED AS OUTSIDE EDGE OF ROADWAY PAVEMENT OR CURB AND GUTTER. USE OF BORROW TYPE 'A' SHALL BE LIMITED TO A MAXIMUM OF 1 FOOT BELOW PAVEMENT SUBGRADE. BORROW TYPE 'F' SHALL BE USED UNDER BORROW TYPE 'A'.
4. PROPOSED DITCHES SHALL BE TIED IN TO EXISTING DITCHES OVER 50 FEET.
5. PAVEMENT LIFT NOTE:
   THE MAXIMUM LIFTS FOR THE INDIVIDUAL PAVING MATERIALS ARE AS FOLLOWS:
   SUPERPAVE, TYPE C HOT-MIX - 2"
   SUPERPAVE, TYPE B HOT-MIX - 3"
   SUPERPAVE BIT. CONC. BASE COURSE - 6"
   GRADED AGGREGATE BASE COURSE - 8"

(1) CROSS SLOPE TRANSITIONS BETWEEN PROPOSED AND EXISTING:
STA. 401+00 TO STA. 402+00
STA. 409+75 TO STA. 413+00

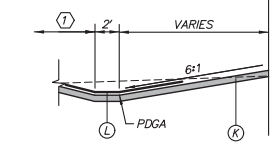
UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\TS02U59.dgn
4/24/2013 3:41:02 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	TYPICAL SECTIONS	SHEET NO. 9
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		



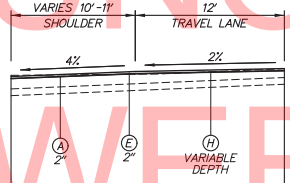
US 9 (LEWES–GEORGETOWN HIGHWAY)
STATION 215+50 TO STATION 226+25



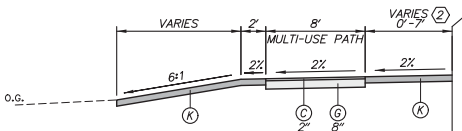
STATION 223+00 TO
STATION 226+25

STATION 218+50 TO STATION 226+25

STATION 216+00 TO
STATION 218+50



STATION 208+00 TO
STATION 214+00



STATION 207+02 TO STATION 209+92

UNOFFICIAL WEBSITE COPY

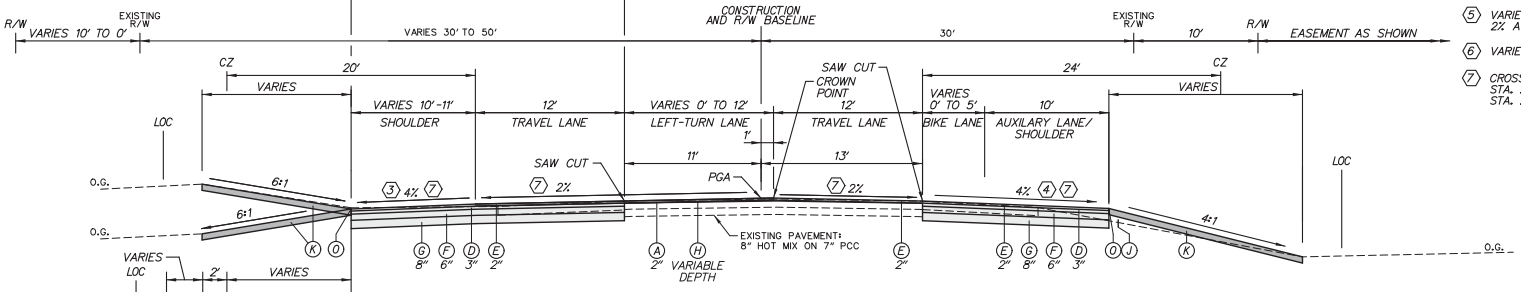
LEGEND

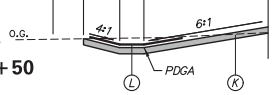
- (A) ITEM 760507 - PROFILE MILLING, HOT-MIX
- (B) ITEM 401810 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22
- (C) ITEM 401827 - WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON-CARBONATE STONE)
- (D) ITEM 401813 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 70-22
- (E) ITEM 401830 - WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 70-22 (NON-CARBONATE STONE)
- (F) ITEM 401819 - WMA, SUPERPAVE, B.C.B.C., 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 401824 - WMA, SUPERPAVE, TYPE C, 160 GYR., PG 64-22, WEDGE
- (I) ITEM 209001 - BORROW, TYPE A (UNDER ROADWAY TEMPLATE)
- (J) SUITABLE EXCAVATED MATERIAL MEETING REQUIREMENTS OF BORROW, TYPE F (OUTSIDE OF ROADWAY TEMPLATE)
- (K) ITEM 732002 - TOPSOIL, 6" DEPTH OR ITEM 733002 - TOPSOILING 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
- (L) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (1 ROLL WIDTH MIN.)
- (M) ITEM 302011 - DELAWARE NO. 3 STONE
- (N) ITEM 713002 - GEOTEXTILE, SEPARATION (SIDE WALLS ONLY)
- (O) ITEM 401752 - SAFETY EDGE (INCIDENTAL TO RESPECTIVE WMA ITEMS)

NOTES:

1. THE POINT OF GRADE APPLICATION (PGA) IS APPLIED FROM THE TOP OF THE FINAL PAVING SURFACE.
2. THE POINT OF DITCH GRADE APPLICATIONS (PDGA) SHALL BE APPLIED TO THE TOE OF FORESLOPE.
3. BORROW TYPE 'A' SHALL BE USED AS FILL UNDER ROADWAY FOOTPRINT. MATERIAL MEETING BORROW TYPE 'F' SHALL BE USED OUTSIDE OF ROADWAY FOOTPRINT. ROADWAY FOOTPRINT IS DEFINED AS OUTSIDE EDGE OF ROADWAY PAVEMENT OR CURB AND GUTTER. USE OF BORROW TYPE 'A' SHALL BE LIMITED TO A MAXIMUM OF 1 FOOT BELOW PAVEMENT SUBGRADE. BORROW TYPE 'F' SHALL BE USED UNDER BORROW TYPE 'A'.
4. PROPOSED DITCHES SHALL BE TIED IN TO EXISTING DITCHES OVER 50 FEET.
5. PAVEMENT LIFT NOTE:
   THE MAXIMUM LIFTS FOR THE INDIVIDUAL PAVING MATERIALS ARE AS FOLLOWS:
   SUPERPAVE, TYPE C HOT-MIX - 2"
   SUPERPAVE, TYPE B HOT-MIX - 3"
   SUPERPAVE BIT. CONC. BASE COURSE - 6"
   GRADED AGGREGATE BASE COURSE - 8"

(1) SEE STORMWATER MANAGEMENT DETAILS FOR GRADING PLAN.
(2) VARIES 6.8' TO 5.2' FROM STA. 207+04 TO STA. 207+93
(3) VARIES FROM 4% AT STA. 214+01 TO 2% AT STA. 214+51
(4) VARIES FROM 4% AT STA. 211+51 TO 2% AT STA. 212+01
    2% FROM STA. 212+01 TO STA. 216+80
(5) VARIES FROM 2% AT STA. 219+34 TO 4% AT STA. 219+84
    2% AT STA. 214+51 TO STA. 219+34
(6) VARIES FROM 2% AT STA. 216+80 TO 4% AT STA. 217+29
(7) CROSS SLOPE TRANSITIONS BETWEEN PROPOSED AND EXISTING:
    STA. 202+00 TO STA. 202+20
    STA. 226+05 TO STA. 226+25



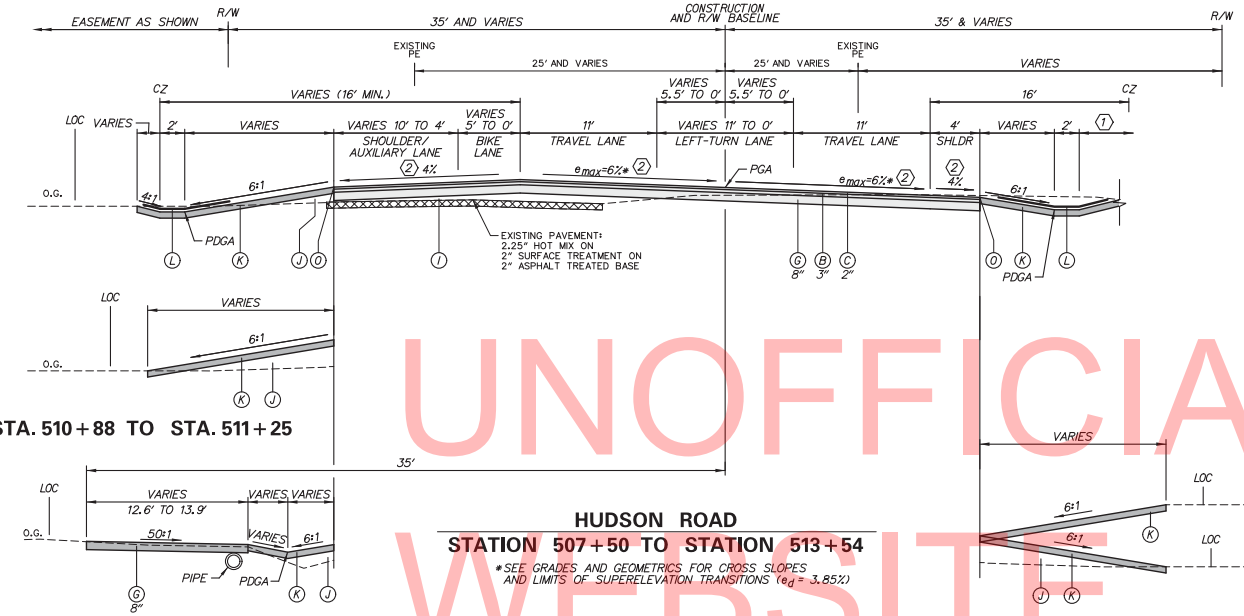


STATION
214+50 TO
STATION 215+50

US 9 (LEWES–GEORGETOWN HIGHWAY)
STATION 202+00 TO STATION 215+50

N:\31606-007\CADD\TS03US9a.dgn
4/24/2013 3:39:38 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	TYPICAL SECTIONS	SHEET NO. 10
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		



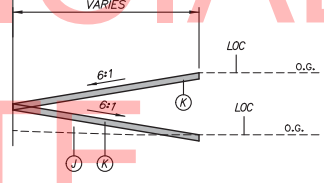
STA. 510+88 TO STA. 511+25

STA. 513+15 TO STA. 513+85

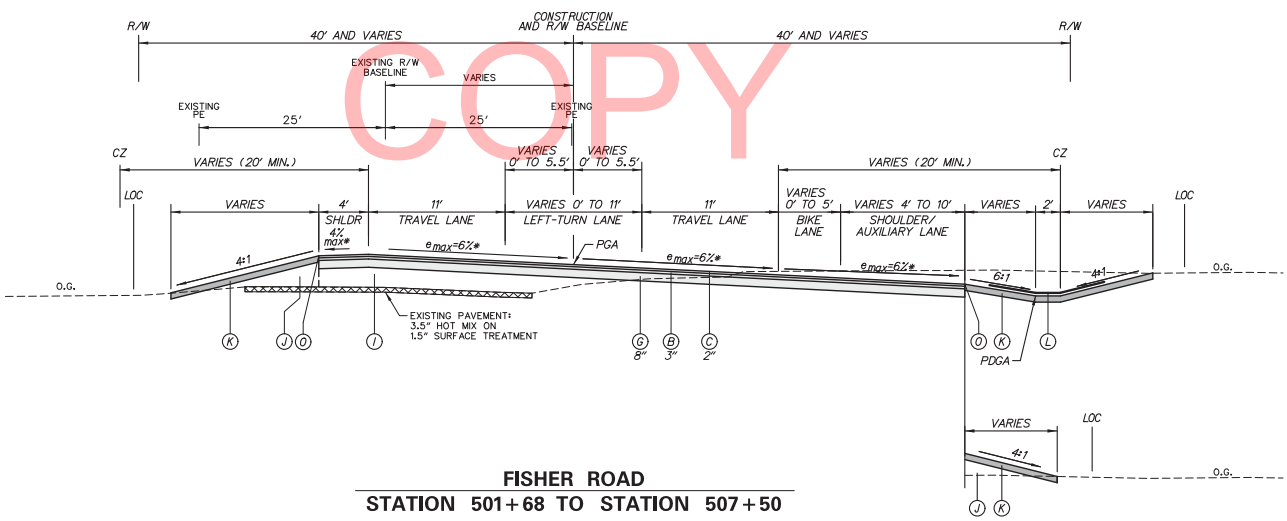
HUDSON ROAD

STATION 507+50 TO STATION 513+54

*SEE GRADES AND GEOMETRICS FOR CROSS SLOPES AND LIMITS OF SUPERELEVATION TRANSITIONS (e_d = 3.85%)



STA. 511+00 TO STA. 513+54



FISHER ROAD

STATION 501+68 TO STATION 507+50

*SEE GRADES AND GEOMETRICS FOR CROSS SLOPES AND LIMITS OF SUPERELEVATION TRANSITIONS (e_d = 3.85%)

STA. 501+68 TO STA. 505+00

LEGEND

- (A) ITEM 760507 - PROFILE MILLING, HOT-MIX
- (B) ITEM 401810 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22
- (C) ITEM 401827 - WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON-CARBONATE STONE)
- (D) ITEM 401813 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 70-22
- (E) ITEM 401830 - WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 70-22 (NON-CARBONATE STONE)
- (F) ITEM 401819 - WMA, SUPERPAVE, B.C.B.C., 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 401824 - WMA, SUPERPAVE, TYPE C, 160 GYR., PG 64-22, WEDGE
- (I) ITEM 209001 - BORROW, TYPE A (UNDER ROADWAY TEMPLATE)
- (J) SUITABLE EXCAVATED MATERIAL MEETING REQUIREMENTS OF BORROW, TYPE F (OUTSIDE OF ROADWAY TEMPLATE)
- (K) ITEM 732002 - TOPSOIL, 6" DEPTH OR ITEM 733002 - TOPSOILING 6" DEPTH ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
- (L) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (1 ROLL WIDTH MIN.)
- (M) ITEM 302011 - DELAWARE NO. 3 STONE
- (N) ITEM 713002 - GEOTEXTILE, SEPARATION (SIDE WALLS ONLY)
- (O) ITEM 401752 - SAFETY EDGE (INCIDENTAL TO RESPECTIVE WMA ITEMS)

NOTES:

1. THE POINT OF GRADE APPLICATION (PGA) IS APPLIED FROM THE TOP OF THE FINAL PAVING SURFACE.
2. THE POINT OF DITCH GRADE APPLICATIONS (PDGA) SHALL BE APPLIED TO THE TOE OF FORESLOPE.
3. BORROW TYPE 'A' SHALL BE USED AS FILL UNDER ROADWAY FOOTPRINT. MATERIAL MEETING BORROW TYPE 'F' SHALL BE USED OUTSIDE OF ROADWAY FOOTPRINT. ROADWAY FOOTPRINT IS DEFINED AS OUTSIDE EDGE OF ROADWAY PAVEMENT OR CURB AND GUTTER. USE OF BORROW TYPE 'A' SHALL BE LIMITED TO A MAXIMUM OF 1 FOOT BELOW PAVEMENT SUBGRADE. BORROW TYPE 'F' SHALL BE USED UNDER BORROW TYPE 'A'.
4. PROPOSED DITCHES SHALL BE TIED IN TO EXISTING DITCHES OVER 50 FEET.
5. PAVEMENT LIFT NOTE:
   THE MAXIMUM LIFTS FOR THE INDIVIDUAL PAVING MATERIALS ARE AS FOLLOWS:
   SUPERPAVE, TYPE C HOT-MIX - 2"
   SUPERPAVE, TYPE B HOT-MIX - 3"
   SUPERPAVE BIT. CONC. BASE COURSE - 6"
   GRADED AGGREGATE BASE COURSE - 8"

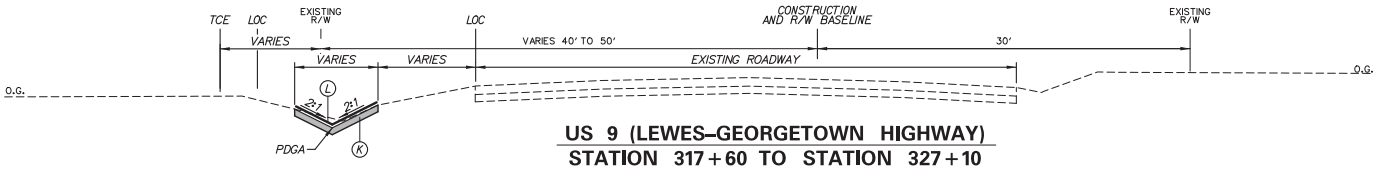
(1) SEE STORMWATER MANAGEMENT DETAILS FOR GRADING PLAN.

(2) CROSS SLOPE TRANSITIONS BETWEEN PROPOSED AND EXISTING: STA. 513+40 AND STA. 513+54

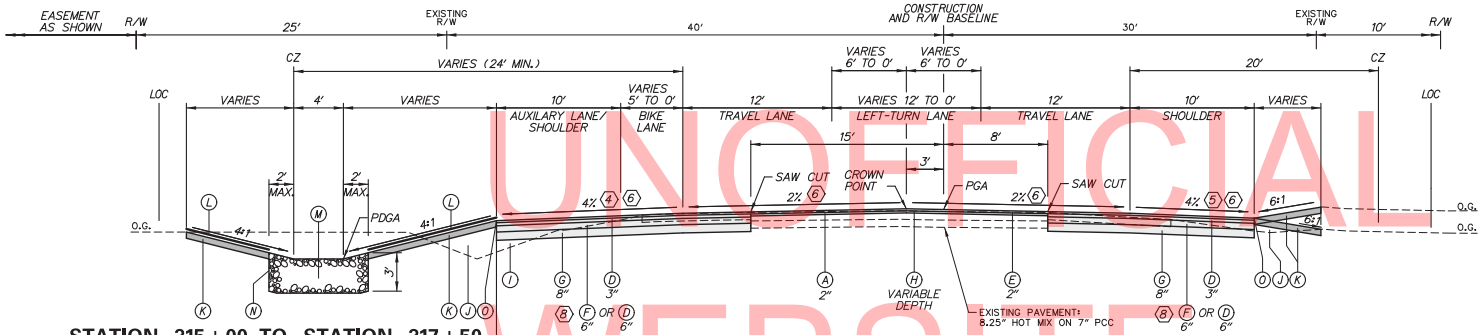
UNOFFICIAL WEBSITE COPY

N:\31696-007\CADD\TS04U59.dgn
4/24/2013 3:36:32 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	TYPICAL SECTIONS	SHEET NO. 11
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

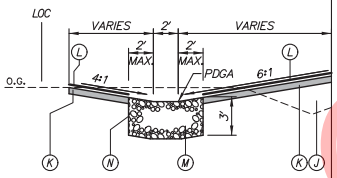


US 9 (LEWES–GEORGETOWN HIGHWAY)
STATION 317+60 TO STATION 327+10

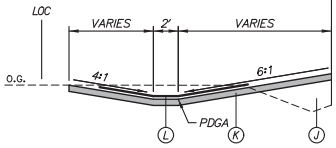


STATION 315+00 TO STATION 317+50

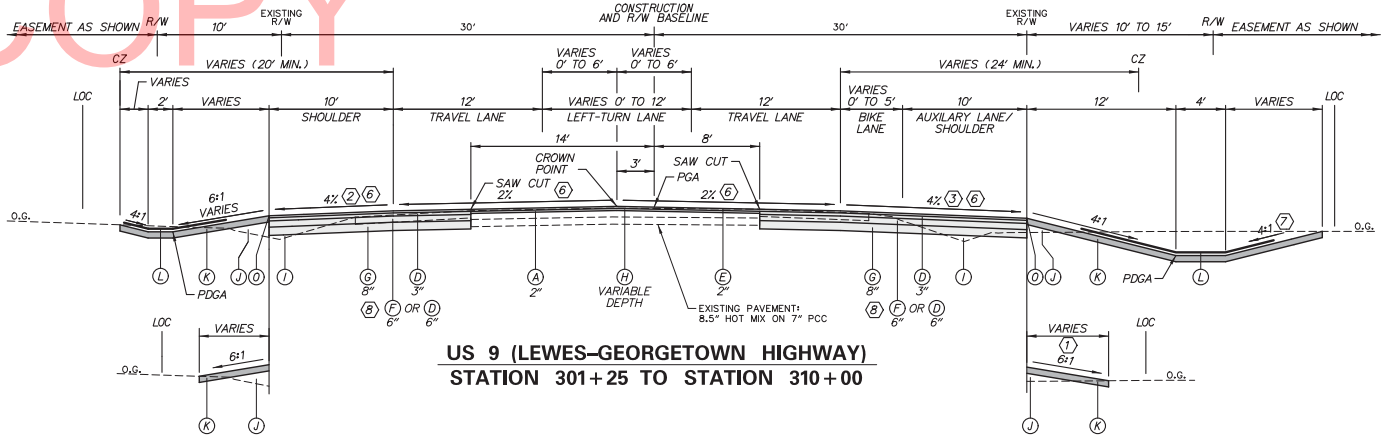
US 9 (LEWES–GEORGETOWN HIGHWAY)
STATION 310+00 TO STATION 317+60



STATION 312+00 TO STATION 315+00



STATION 310+00 TO STATION 312+00



US 9 (LEWES–GEORGETOWN HIGHWAY)
STATION 301+25 TO STATION 310+00

STATION 301+25 TO STATION 304+50

STATION 301+25 TO STATION 306+20

LEGEND

- (A) ITEM 760507 - PROFILE MILLING, HOT-MIX
- (B) ITEM 401810 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22
- (C) ITEM 401827 - WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON-CARBONATE STONE)
- (D) ITEM 401813 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 70-22
- (E) ITEM 401830 - WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 70-22 (NON-CARBONATE STONE)
- (F) ITEM 401819 - WMA, SUPERPAVE, B.C.B.C., 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 401824 - WMA, SUPERPAVE, TYPE C, 160 GYR., PG 64-22, WEDGE
- (I) ITEM 209001 - BORROW, TYPE A (UNDER ROADWAY TEMPLATE)
- (J) SUITABLE EXCAVATED MATERIAL MEETING REQUIREMENTS OF BORROW, TYPE F (OUTSIDE OF ROADWAY TEMPLATE)
- (K) ITEM 732002 - TOPSOIL, 6" DEPTH OR ITEM 733002 - TOPSOILING 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
- (L) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (1 ROLL WIDTH MIN.)
- (M) ITEM 302011 - DELAWARE NO. 3 STONE
- (N) ITEM 713002 - GEOTEXTILE, SEPARATION (SIDE WALLS ONLY)
- (O) ITEM 401752 - SAFETY EDGE (INCIDENTAL TO RESPECTIVE WMA ITEMS)

NOTES:

1. THE POINT OF GRADE APPLICATION (PGA) IS APPLIED FROM THE TOP OF THE FINAL PAVING SURFACE.
2. THE POINT OF DITCH GRADE APPLICATIONS (PDGA) SHALL BE APPLIED TO THE TOE OF FORESLOPE.
3. BORROW TYPE 'A' SHALL BE USED AS FILL UNDER ROADWAY FOOTPRINT. MATERIAL MEETING BORROW TYPE 'F' SHALL BE USED OUTSIDE OF ROADWAY FOOTPRINT. ROADWAY FOOTPRINT IS DEFINED AS OUTSIDE EDGE OF ROADWAY PAVEMENT OR CURB AND GUTTER. USE OF BORROW TYPE 'A' SHALL BE LIMITED TO A MAXIMUM OF 1 FOOT BELOW PAVEMENT SUBGRADE. BORROW TYPE 'F' SHALL BE USED UNDER BORROW TYPE 'A'.
4. PROPOSED DITCHES SHALL BE TIED IN TO EXISTING DITCHES OVER 50 FEET.

NOTES (CONTINUED):

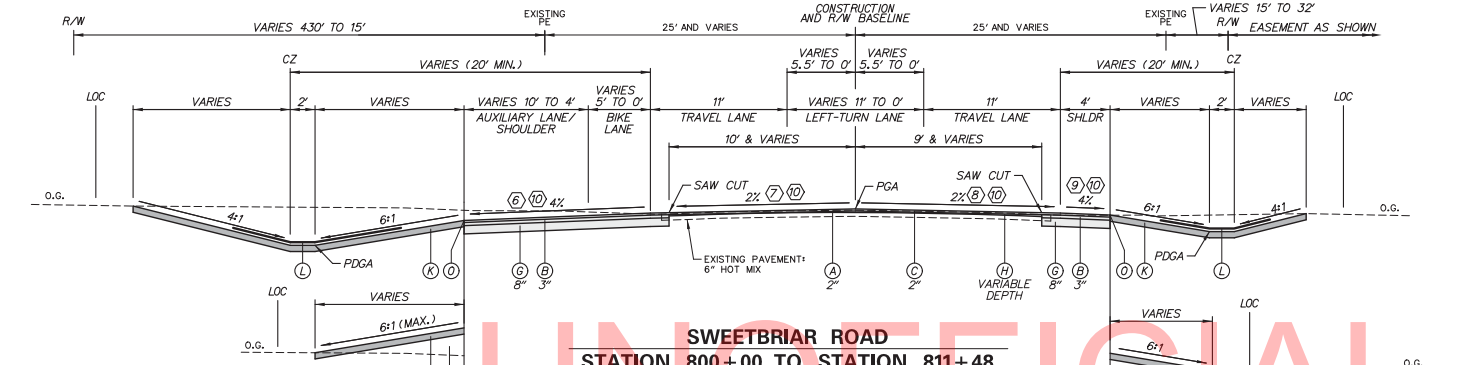
5. PAVEMENT LIFT NOTE:
   THE MAXIMUM LIFTS FOR THE INDIVIDUAL PAVING MATERIALS ARE AS FOLLOWS:
   SUPERPAVE, TYPE C HOT-MIX - 2"
   SUPERPAVE, TYPE B HOT-MIX - 3"
   SUPERPAVE BIT. CONC. BASE COURSE - 6"
   GRADED AGGREGATE BASE COURSE - 8"

   (1) VARIES FROM 6:1 AT STA. 306+00 TO 4:1 AT STA. 306+20
   VARIES FROM 4:1 AT STA. 309+00 TO 6:1 AT STA. 309+20
   (2) VARIES FROM 4% AT STA. 308+79 TO 2% AT STA. 309+29
   (3) VARIES FROM 4% AT STA. 306+00 TO 2% AT STA. 306+50
   2% FROM STA. 306+50 TO STA. 310+94
   (4) VARIES FROM 2% AT STA. 314+50 TO 4% AT STA. 315+00
   2% AT STA. 309+29 TO STA. 314+50
   (5) VARIES FROM 2% AT STA. 310+94 TO 4% AT STA. 311+44
   (6) CROSS SLOPE TRANSITIONS BETWEEN PROPOSED AND EXISTING:
   STA. 301+25 TO STA. 301+45
   STA. 317+40 TO STA. 317+60
   (7) 6:1 FROM STA. 306+20 TO STA. 308+00
   (8) (D) SHALL BE PLACED FROM STA. 308+50 TO STA. 311+25

UNOFFICIAL WEBSITE COPY

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	TYPICAL SECTIONS	SHEET NO. 12
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

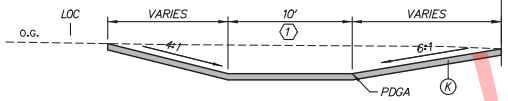
N:\31606-007\CADD\TS05US9a.dgn
4/24/2013 3:44:50 PM



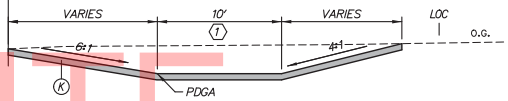
SWEETBRIAR ROAD
STATION 800+00 TO STATION 811+48

STATION 807+00 TO STATION 811+48

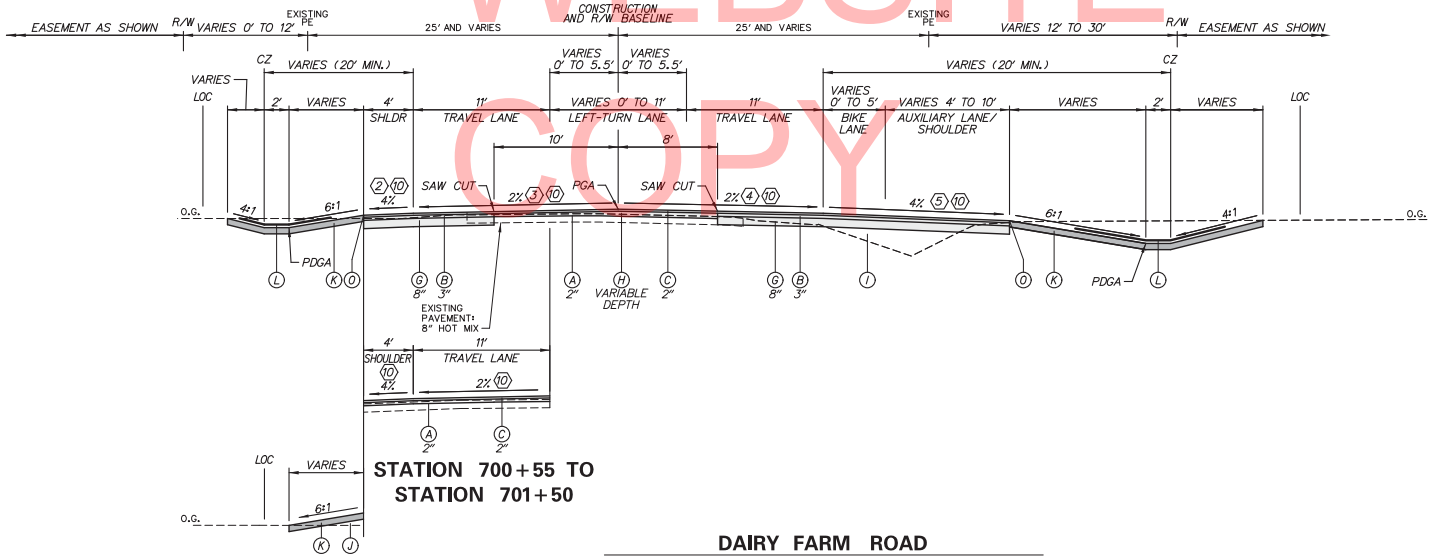
STATION 807+50 TO STATION 811+48



STATION 803+00 TO STATION 805+00



STATION 803+50 TO STATION 805+50



STATION 700+55 TO STATION 701+50

STATION 702+75 TO STATION 704+25
STATION 705+00 TO STATION 705+97

DAIRY FARM ROAD
STATION 700+55 TO STATION 705+97

LEGEND

- (A) ITEM 760507 - PROFILE MILLING, HOT-MIX
- (B) ITEM 401810 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22
- (C) ITEM 401827 - WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON-CARBONATE STONE)
- (D) ITEM 401813 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 70-22
- (E) ITEM 401830 - WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 70-22 (NON-CARBONATE STONE)
- (F) ITEM 401819 - WMA, SUPERPAVE, B.C.B.C., 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 401824 - WMA, SUPERPAVE, TYPE C, 160 GYR., PG 64-22, WEDGE
- (I) ITEM 209001 - BORROW, TYPE A (UNDER ROADWAY TEMPLATE)
- (J) SUITABLE EXCAVATED MATERIAL MEETING REQUIREMENTS OF BORROW, TYPE F (OUTSIDE OF ROADWAY TEMPLATE)
- (K) ITEM 732002 - TOPSOIL, 6" DEPTH OR ITEM 733002 - TOPSOILING 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
- (L) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (1 ROLL WIDTH MIN.)
- (M) ITEM 302011 - DELAWARE NO. 3 STONE
- (N) ITEM 713002 - GEOTEXTILE, SEPARATION (SIDE WALLS ONLY)
- (O) ITEM 401752 - SAFETY EDGE (INCIDENTAL TO RESPECTIVE WMA ITEMS)

NOTES:

1. THE POINT OF GRADE APPLICATION (PGA) IS APPLIED FROM THE TOP OF THE FINAL PAVING SURFACE.
2. THE POINT OF DITCH GRADE APPLICATIONS (PDGA) SHALL BE APPLIED TO THE TOE OF FORESLOPE.
3. BORROW TYPE 'A' SHALL BE USED AS FILL UNDER ROADWAY FOOTPRINT. MATERIAL MEETING BORROW TYPE 'F' SHALL BE USED OUTSIDE OF ROADWAY FOOTPRINT. ROADWAY FOOTPRINT IS DEFINED AS OUTSIDE EDGE OF ROADWAY PAVEMENT OR CURB AND GUTTER. USE OF BORROW TYPE 'A' SHALL BE LIMITED TO A MAXIMUM OF 1 FOOT BELOW PAVEMENT SUBGRADE. BORROW TYPE 'F' SHALL BE USED UNDER BORROW TYPE 'A'.
4. PROPOSED DITCHES SHALL BE TIED IN TO EXISTING DITCHES OVER 50 FEET.
5. PAVEMENT LIFT NOTE:
   THE MAXIMUM LIFTS FOR THE INDIVIDUAL PAVING MATERIALS ARE AS FOLLOWS:
   SUPERPAVE, TYPE C HOT-MIX - 2"
   SUPERPAVE, TYPE B HOT-MIX - 3"
   SUPERPAVE BIT. CONC. BASE COURSE - 6"
   GRADED AGGREGATE BASE COURSE - 8"

(1) SEE STORMWATER MANAGEMENT DETAILS FOR GRADING PLAN.

(2) VARIES FROM 4% AT STA. 705+18 TO 0.13% AT STA. 705+66

(3) VARIES FROM 2% AT STA. 705+18 TO 0.13% AT STA. 705+66

(4) VARIES FROM 2% AT STA. 705+18 TO 0.44% AT STA. 705+66

(5) VARIES FROM 4% AT STA. 705+18 TO 0.44% AT STA. 705+66

(6) VARIES FROM 0.13% AT STA. 800+34 TO 2% AT STA. 800+84
2% FROM STA. 800+84 TO STA. 803+73
VARIES FROM 2% AT STA. 803+73 TO 4% AT STA. 804+23
VARIES FROM 4% AT STA. 805+93 TO 0.5% AT STA.806+28
0.5% FROM STA. 806+28 TO STA. 806+65
VARIES FROM 0.5% AT STA. 806+65 TO 4% AT STA. 807+00

(7) VARIES FROM 0.13% AT STA. 800+34 TO 2% AT STA. 800+84

(8) VARIES FROM 0.44% AT STA. 800+34 TO 2% AT STA. 800+84

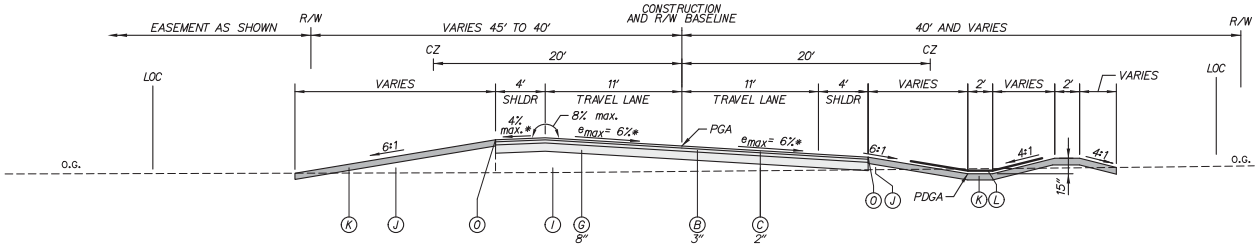
(9) VARIES FROM 0.44% AT STA. 800+34 TO 4% AT STA. 800+84

(10) CROSS SLOPE TRANSITIONS BETWEEN PROPOSED AND EXISTING:
STA. 700+55 TO STA. 700+75
STA. 811+28 TO STA. 811+48

UNOFFICIAL WEBSITE COPY

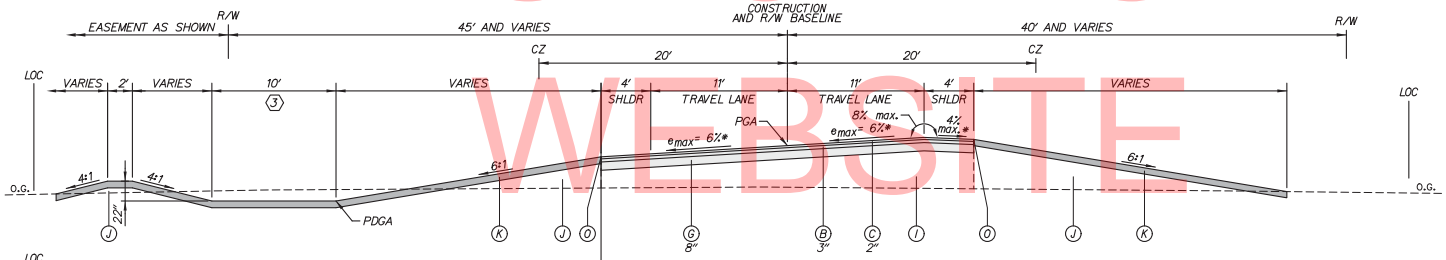
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	TYPICAL SECTIONS	SHEET NO. 13
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

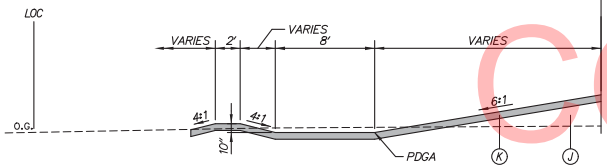
N:\31606-007\CADD\TS06US9a.dgn
4/24/2013 3:48:04 PM



LOG CABIN HILL ROAD
STATION 908+84 TO STATION 916+00

*SEE GRADES AND GEOMETRICS FOR CROSS SLOPES AND LIMITS OF SUPERELEVATION TRANSITIONS (e_d = 6%)

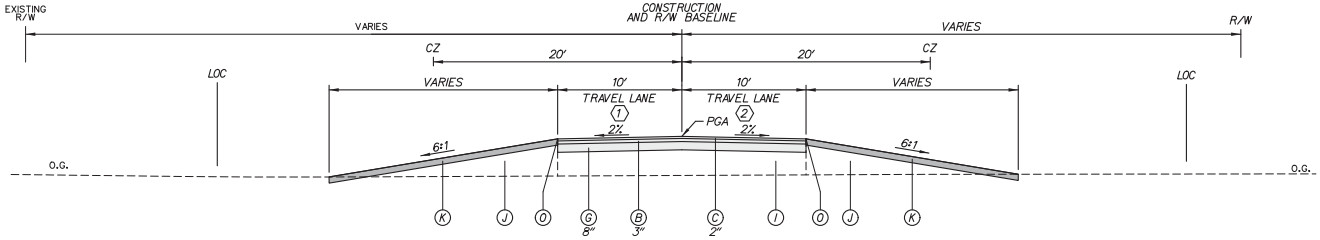




LOG CABIN HILL ROAD
STATION 900+56 TO STATION 908+84

*SEE GRADES AND GEOMETRICS FOR CROSS SLOPES AND LIMITS OF SUPERELEVATION TRANSITIONS (e_d = 6%)

STATION 902+00 TO STATION 908+84



ACCESS ROAD
STATION 600+00 TO STATION 601+77

LEGEND

- (A) ITEM 760507 - PROFILE MILLING, HOT-MIX
- (B) ITEM 401810 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22
- (C) ITEM 401827 - WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON-CARBONATE STONE)
- (D) ITEM 401813 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 70-22
- (E) ITEM 401830 - WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 70-22 (NON-CARBONATE STONE)
- (F) ITEM 401819 - WMA, SUPERPAVE, B.C.B.C., 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 401824 - WMA, SUPERPAVE, TYPE C, 160 GYR., PG 64-22, WEDGE
- (I) ITEM 209001 - BORROW, TYPE A (UNDER ROADWAY TEMPLATE)
- (J) SUITABLE EXCAVATED MATERIAL MEETING REQUIREMENTS OF BORROW, TYPE F (OUTSIDE OF ROADWAY TEMPLATE)
- (K) ITEM 732002 - TOPSOIL, 6" DEPTH OR ITEM 733002 - TOPSOILING 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
- (L) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (1 ROLL WIDTH MIN.)
- (M) ITEM 302011 - DELAWARE NO. 3 STONE
- (N) ITEM 713002 - GEOTEXTILE, SEPARATION (SIDE WALLS ONLY)
- (O) ITEM 401752 - SAFETY EDGE (INCIDENTAL TO RESPECTIVE WMA ITEMS)

NOTES:

1. THE POINT OF GRADE APPLICATION (PGA) IS APPLIED FROM THE TOP OF THE FINAL PAVING SURFACE.
2. THE POINT OF DITCH GRADE APPLICATIONS (PDGA) SHALL BE APPLIED TO THE TOE OF FORESLOPE.
3. BORROW TYPE 'A' SHALL BE USED AS FILL UNDER ROADWAY FOOTPRINT. MATERIAL MEETING BORROW TYPE 'F' SHALL BE USED OUTSIDE OF ROADWAY FOOTPRINT. ROADWAY FOOTPRINT IS DEFINED AS OUTSIDE EDGE OF ROADWAY PAVEMENT OR CURB AND GUTTER. USE OF BORROW TYPE 'A' SHALL BE LIMITED TO A MAXIMUM OF 1 FOOT BELOW PAVEMENT SUBGRADE. BORROW TYPE 'F' SHALL BE USED UNDER BORROW TYPE 'A'.
4. PROPOSED DITCHES SHALL BE TIED IN TO EXISTING DITCHES OVER 50 FEET.
5. PAVEMENT LIFT NOTE:
   THE MAXIMUM LIFTS FOR THE INDIVIDUAL PAVING MATERIALS ARE AS FOLLOWS:
   SUPERPAVE, TYPE C HOT-MIX - 2"
   SUPERPAVE, TYPE B HOT-MIX - 3"
   SUPERPAVE BIT. CONC. BASE COURSE - 6"
   GRADED AGGREGATE BASE COURSE - 8"

(1) VARIES AT -0.17% AT STA. 600+19 TO 2% AT STA. 600+39
VARIES FROM 2% AT STA. 601+42 TO -0.34% AT STA. 601+62

(2) VARIES FROM 0.26% AT STA. 600+19 TO 2% AT STA. 600+39
VARIES FROM 2% AT STA. 601+42 TP 0.34% AT STA. 601+62

(3) SEE STORMWATER MANAGEMENT DETAILS FOR GRADING PLAN

UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\T507US9.dgn
4/24/2013 3:46:39 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	TYPICAL SECTIONS	SHEET NO. 14
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

HORIZONTAL / VERTICAL CONTROL DATA

POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
110	105+21.38	27.47' LT.	259919.8792	684227.9307	42.47'
111	99+89.73	26.14' RT.	259647.1056	683768.4435	41.14'
112A	121+39.91	22.83' LT.	260634.7500	685678.0712	37.74'
115	109+70.32	42.18' RT.	260046.0199	684664.3745	40.29'
115A	402+71.81	24.51' RT.	259754.4950	684870.4397	40.94'

CIRCULAR CURVE NO. 1

Radius:	5729.5780
Delta:	2°57'00.0002" Left
Degree of Curvature(Arc):	1°00'00.0000"
Length:	295.0000
Tangent:	147.5326
Chord:	294.9674
Middle Ordinate:	1.8985
External:	1.8991
Tangent Direction:	N 65°03'44.4810" E
Radial Direction:	S 24°56'15.5190" E
Chord Direction:	N 63°35'14.4810" E
Radial Direction:	S 27°53'15.5191" E
Tangent Direction:	N 62°06'44.4809" E

CONSTRUCTION ALIGNMENT CONTROL US 9

POINT	STATION	OFFSET	NORTHING	EASTING
10006	100+00.00	0.00'	259675.1418	683766.7390
	105+00.00	0.00'	259885.9576	684220.1225
10302	110+00.00	0.00'	260096.7734	684673.5061
10003	111+86.71	0.00'	260175.4974	684842.8110
10001	113+34.25	1.90' RT.	260237.7018	684976.5887
10005	114+81.71	0.00'	260306.7086	685106.9878
	115+00.00	0.00'	260315.2623	685123.1514
	120+00.00	0.00'	260549.1319	685565.0847
10007	121+00.00	0.00'	260595.9058	685653.4714

CIRCULAR CURVE NO. 2

Radius:	950.0000
Delta:	27°02'02.9801" Right
Degree of Curvature(Arc):	6°01'52.0849"
Length:	448.2434
Tangent:	228.3744
Chord:	444.0969
Middle Ordinate:	26.3147
External:	27.0644
Tangent Direction:	N 23°10'11.5916" W
Radial Direction:	N 66°49'48.4084" E
Chord Direction:	N 9°39'10.1015" W
Radial Direction:	S 86°08'06.6115" E
Tangent Direction:	N 3°51'51.3885" E

NOTES:

1. DATUM REFERENCE:
   HORIZONTAL - PROJECT IS BASED ON THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83).
   VERTICAL - PLAN ELEVATIONS ARE BASED ON N.G.S. SURVEY DATUM (NAVD 88), DELAWARE BENCHMARKS
   HU0070 - EL. 25.7234 FEET AND
   HU2670 - EL. 25.6348 FEET
2. OFFSETS SHOWN IN THE ALIGNMENT CONTROL TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE BASELINE.

CONSTRUCTION ALIGNMENT CONTROL GRAVEL HILL ROAD

POINT	STATION	OFFSET	NORTHING	EASTING
10014	400+00.00	0.00'	259494.9835	684954.8530
10020	404+89.08	0.00'	259944.6197	684762.4183
10019	407+17.46	27.06' LT.	260154.5740	684672.5624
10022	409+37.33	0.00'	260382.4291	684687.9533
	410+00.00	0.00'	260444.9585	684692.1769
	415+00.00	0.00'	261143.3671	684739.3522
10300	417+00.00	0.00'	260943.8218	684725.8735

UNOFFICIAL WEBSITE COPY

N:\31696-007\CADD\HV01US9.dgn
2/26/2013 2:43:21 PM

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 100 200 300 FEET

HSIP SUSSEX COUNTY US 9 PROJECTS

CONTRACT	BRIDGE NO.	N/A
T200800901	DESIGNED BY:	J.L.R.
COUNTY		
SUSSEX	CHECKED BY:	R.R.W.

HORIZONTAL AND VERTICAL CONTROL

SHEET NO. 15
TOTAL SHTS. 161

HORIZONTAL / VERTICAL CONTROL DATA

POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
100	215+69.57	36.79' RT.	265740.3197	700490.1256	33.68'
101	208+96.31	29.79' LT.	265637.9074	699821.3830	33.00'

CIRCULAR CURVE NO. 3

Radius:	550.0000
Delta:	92° 54' 24.3216" Right
Degree of Curvature(Arc):	10° 25' 02.6920"
Length:	891.8408
Tangent:	578.6354
Chord:	797.2954
Middle Ordinate:	171.0805
External:	248.3225
Tangent Direction:	N 85° 25' 16.2768" W
Radial Direction:	N 4° 34' 43.7232" E
Chord Direction:	N 38° 58' 04.1160" W
Radial Direction:	S 82° 30' 51.9552" E
Tangent Direction:	N 7° 29' 08.0448" E

NOTES:

1. DATUM REFERENCE:
   HORIZONTAL - PROJECT IS BASED ON THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83).
   VERTICAL - PLAN ELEVATIONS ARE BASED ON N.G.S. SURVEY DATUM (NAVD 88), DELAWARE BENCHMARKS HU0070 - EL. 25.7234 FEET AND HU2670 - EL. 25.6348 FEET
2. OFFSETS SHOWN IN THE ALIGNMENT CONTROL TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE BASELINE.

CONSTRUCTION ALIGNMENT CONTROL US 9

POINT	STATION	OFFSET	NORTHING	EASTING
13022	200+00.00	0.00'	265386.8324	698960.4367
	205+00.00	0.00'	265510.7929	699444.8268
	210+00.00	0.00'	265634.7534	699929.2170
	215+00.00	0.00'	265758.7139	700413.6071
	220+00.00	0.00'	265882.6744	700897.9972
	225+00.00	0.00'	266006.6349	701382.3874
13023	228+00.00	0.00'	266081.0112	701673.0214

CONSTRUCTION ALIGNMENT CONTROL FISHER ROAD / HUDSON ROAD

POINT	STATION	OFFSET	NORTHING	EASTING
13011	500+00.00	0.00'	265443.7349	701101.8024
13008	501+68.28	0.00'	265457.1689	700934.0576
13006	507+46.92	248.32' LT.	265503.3615	700357.2690
13010	510+60.12	0.00'	266077.0656	700432.6516
	515+00.00	0.00'	266513.1942	700489.9572
13007	516+00.00	0.00'	266612.3406	700502.9847

UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\HV02\159.dgn
2/26/2013 2:03:27 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 100 200 300 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	HORIZONTAL AND VERTICAL CONTROL	SHEET NO. 16
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

HORIZONTAL / VERTICAL CONTROL DATA

POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
103	319+37.94	20.24' RT.	268473.5321	712442.6754	19.66'
104	310+65.71	45.15' LT.	268374.1053	711573.6650	20.28'
105	302+92.73	21.01' RT.	268164.0806	710826.8230	21.53'
107	305+01.49	273.58' LT.	268492.6142	710976.6085	21.52'
108	806+90.44	19.89' LT.	269007.2898	711476.3809	20.60'

NOTES:
1. DATUM REFERENCE:
HORIZONTAL - PROJECT IS BASED ON THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83).
VERTICAL - PLAN ELEVATIONS ARE BASED ON N.G.S. SURVEY DATUM (NAVD 88), DELAWARE BENCHMARKS
HU0070 - EL. 25.7234 FEET AND
HU2670 - EL. 25.6348 FEET
2. OFFSETS SHOWN IN THE ALIGNMENT CONTROL TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE BASELINE.

CIRCULAR CURVE NO. 8

Radius:	7938.3882
Delta:	1° 33' 41.1461" Left
Degree of Curvature(Arc):	0° 43' 18.3210"
Length:	216.3376
Tangent:	108.1755
Chord:	216.3309
Middle Ordinate:	0.7369
External:	0.7370
Tangent Direction:	N 1° 09' 58.2570" W
Radial Direction:	N 88° 50' 01.7430" E
Chord Direction:	N 1° 56' 48.8300" W
Radial Direction:	N 87° 16' 20.5970" E
Tangent Direction:	N 2° 43' 39.4030" W

CONSTRUCTION ALIGNMENT CONTROL US 9

POINT	STATION	OFFSET	NORTHING	EASTING
16002	300+00.00	0.00'	268129.7965	710535.3528
	305+00.00	0.00'	268223.6104	711026.4729
	310+00.00	0.00'	268317.4244	711517.5930
	315+00.00	0.00'	268411.2384	712008.7131
	320+00.00	0.00'	268505.0523	712499.8331
16003	329+00.00	0.00'	268673.9175	713383.8493

CONSTRUCTION ALIGNMENT CONTROL ACCESS ROAD

POINT	STATION	OFFSET	NORTHING	EASTING
16030	600+00.00	0.00'	268494.1418	710718.4918
16031	600+25.30	0.00'	268519.3198	710721.0156
16032	600+71.94	7.08' RT.	268565.7279	710725.6674
16033	601+15.74	0.00'	268606.5912	710703.1833
16034	601+76.53	0.00'	268659.8473	710673.8804

CONSTRUCTION ALIGNMENT CONTROL DAIRY FARM ROAD

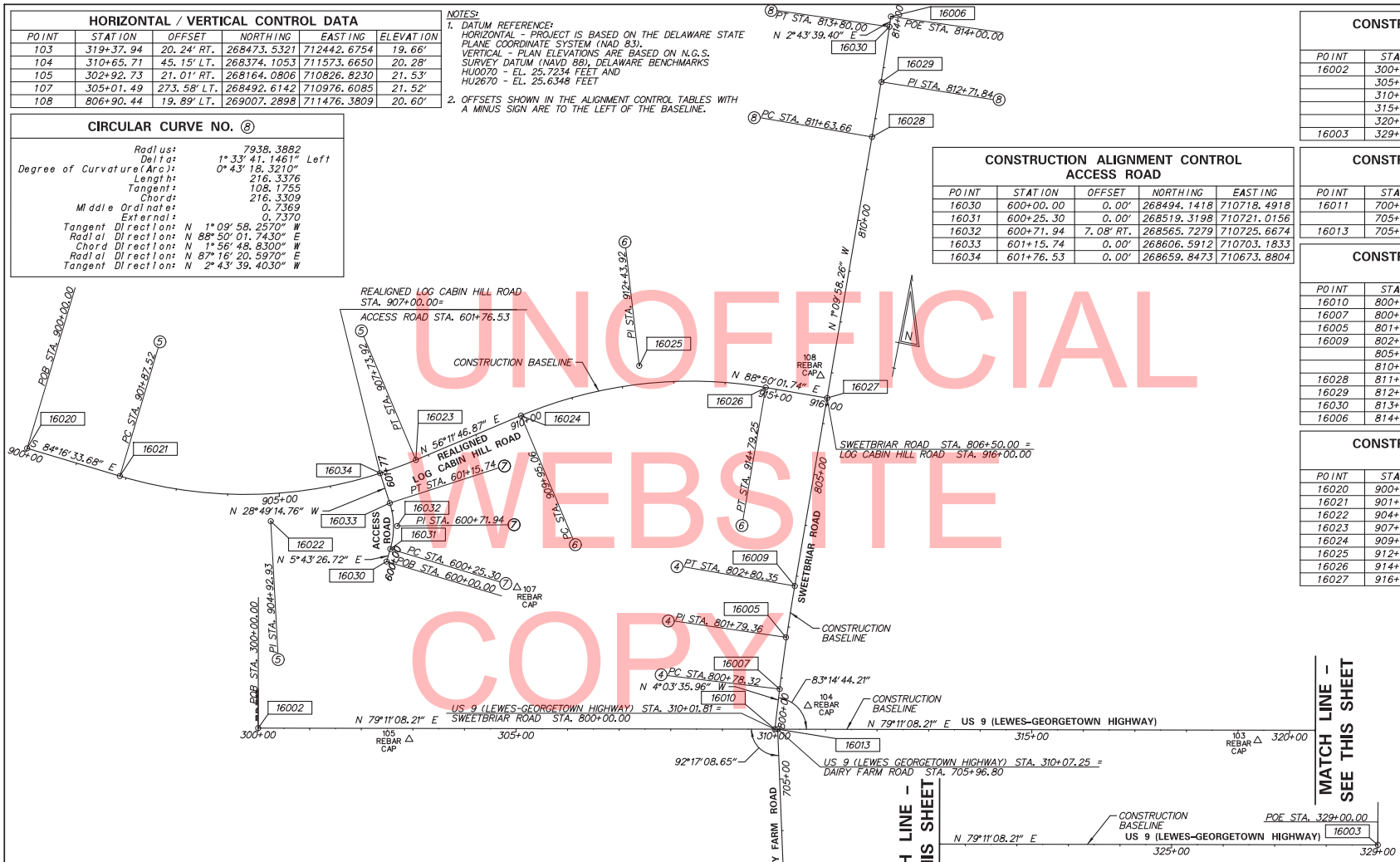
POINT	STATION	OFFSET	NORTHING	EASTING
16011	700+00.00	0.00'	267737.7715	711661.0684
	705+00.00	0.00'	268224.5469	711546.8332
16013	705+96.80	0.00'	268318.7853	711524.7176

CONSTRUCTION ALIGNMENT CONTROL SWEETBRIAR ROAD

POINT	STATION	OFFSET	NORTHING	EASTING
16010	800+00.00	0.00'	268317.7643	711519.3726
16007	800+78.32	0.00'	268395.8899	711513.8273
16005	801+79.36	1.28' LT.	268496.6707	711506.6740
16009	802+80.35	0.00'	268597.6842	711504.6177
	805+00.00	0.00'	268817.2908	711500.1473
	810+00.00	0.00'	269317.1872	711489.9711
16028	811+63.66	0.00'	269480.8156	711486.6402
16029	812+71.84	0.00'	269588.9687	711484.4386
16030	813+80.00	0.00'	269697.0217	711479.2908
16006	814+00.00	0.00'	269716.9991	711478.3390

CONSTRUCTION ALIGNMENT CONTROL LOG CABIN HILL ROAD

POINT	STATION	OFFSET	NORTHING	EASTING
16020	900+00.00	0.00'	268577.5001	709992.7607
16021	901+87.52	0.00'	268558.7977	710179.3441
16022	904+92.93	53.20' RT.	268528.3370	710483.2338
16023	907+73.92	0.00'	268698.2529	710737.0161
16024	909+95.06	0.00'	268821.2849	710920.7739
16025	912+43.92	35.68' LT.	268959.7373	711393.6701
16026	914+79.25	0.00'	268964.8022	711376.3707
16027	916+00.00	0.00'	268967.2597	711497.0944



CIRCULAR CURVE NO. 6

Radius:	850.0000
Delta:	32° 38' 14.8732" Right
Degree of Curvature(Arc):	6° 44' 26.4478"
Length:	484.1865
Tangent:	248.8591
Chord:	477.6668
Middle Ordinate:	34.2435
External:	35.6810
Tangent Direction:	N 56° 11' 46.8699" E
Radial Direction:	S 33° 48' 13.1301" E
Chord Direction:	N 72° 30' 54.3064" E
Radial Direction:	S 1° 09' 58.2570" E
Tangent Direction:	N 88° 50' 01.7430" E

CIRCULAR CURVE NO. 5

Radius:	850.0000
Delta:	39° 31' 39.4553" Left
Degree of Curvature(Arc):	6° 44' 26.4478"
Length:	586.4041
Tangent:	305.4125
Chord:	574.8441
Middle Ordinate:	50.0697
External:	53.2036
Tangent Direction:	S 84° 16' 33.6749" E
Radial Direction:	S 5° 43' 26.3251" W
Chord Direction:	N 75° 57' 36.5975" E
Radial Direction:	S 33° 48' 13.1301" E
Tangent Direction:	N 56° 11' 46.8699" E

CIRCULAR CURVE NO. 4

Radius:	4000.0000
Delta:	2° 53' 37.7035" Right
Degree of Curvature(Arc):	1° 25' 56.6202"
Length:	202.0258
Tangent:	101.0344
Chord:	202.0043
Middle Ordinate:	1.2754
External:	1.2758
Tangent Direction:	N 4° 03' 35.9604" W
Radial Direction:	N 85° 56' 24.0396" E
Chord Direction:	N 2° 36' 47.1087" W
Radial Direction:	N 88° 50' 01.7430" E
Tangent Direction:	N 1° 09' 58.2570" W

CIRCULAR CURVE NO. 7

Radius:	150.0000
Delta:	34° 32' 41.4816" Left
Degree of Curvature(Arc):	38° 11' 49.8708"
Length:	90.4382
Tangent:	46.6406
Chord:	89.0746
Middle Ordinate:	6.7644
External:	7.0839
Tangent Direction:	N 5° 43' 26.7218" E
Radial Direction:	S 84° 16' 33.2782" E
Chord Direction:	N 11° 32' 54.0190" W
Radial Direction:	N 61° 10' 45.2401" E
Tangent Direction:	N 28° 49' 14.7599" W

UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\WV03459.dgn
2/26/2013 2:40:32 PM

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 100 200 300 FEET

HSIP SUSSEX COUNTY US 9 PROJECTS

CONTRACT	BRIDGE NO. N/A	HORIZONTAL AND VERTICAL CONTROL	SHEET NO.
T200800901	DESIGNED BY: J.L.R.		17
COUNTY			TOTAL SHTS.
SUSSEX	CHECKED BY: R.R.W.		161

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL
TH-1	VER	104+80.30	20.89' RT	42.56'	3.16	1 3/4" D.B. CABLE

RIGHT-OF-WAY MONUMENT SCHEDULE

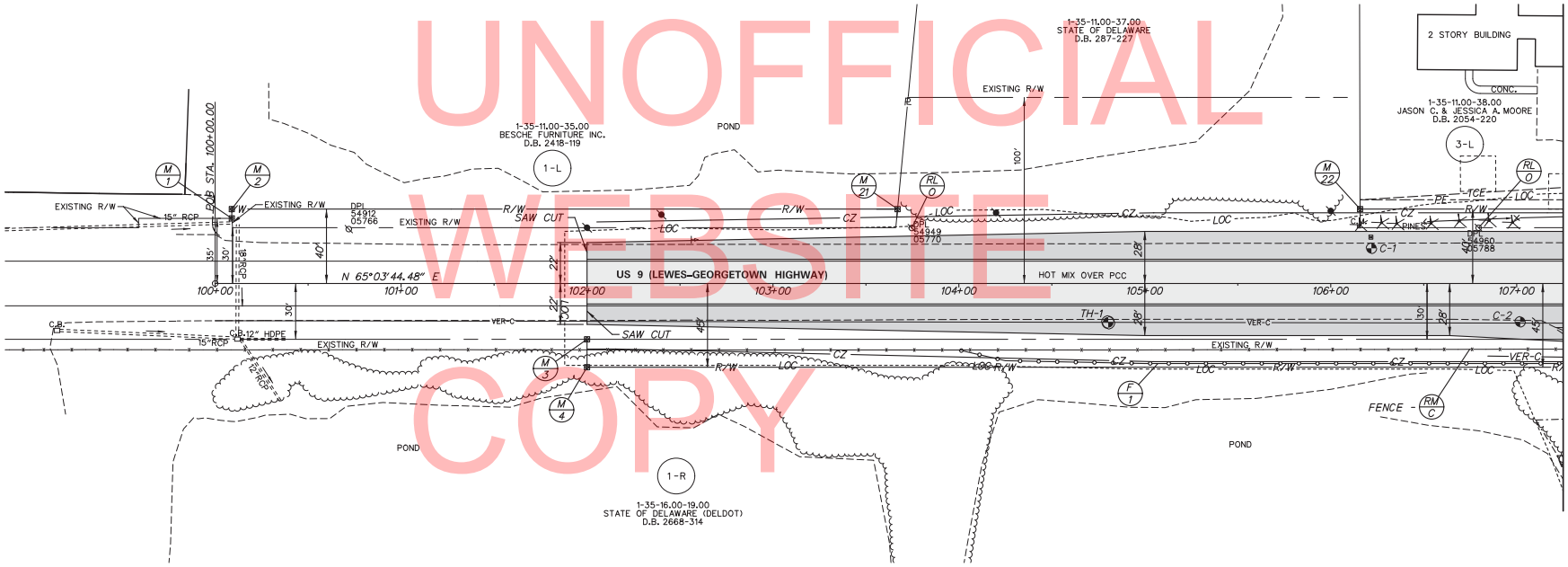
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
1	CAPPED REBAR	100+08.96	35.00' LT	259710.6575	683760.1087
2	CAPPED REBAR	100+08.96	40.00' LT	259715.1913	683758.0006
3	CAPPED REBAR	102+00.00	30.00' RT	259732.2651	683960.7413
4	CAPPED REBAR	102+00.00	45.00' RT	259718.6636	683967.0658
21	CAPPED REBAR	103+67.02	40.00' RT	259866.1591	684082.6739
22	CAPPED REBAR	106+15.78	40.00' RT	259971.0455	684308.2443

ROADWAY CORE SUMMARY

NO.	STATION	OFFSET	DESCRIPTION
1	106+22	19' LT.	6" HOT MIX ON SAND
2	107+02	21' RT.	5.5" HOT MIX ON 4.5" SAND

FENCE SCHEDULE

NO.	QTY.	DESCRIPTION	NOTES
1	332 LF	CHAIN LINK FENCE, 8 FT. HIGH (ITEM 727007)	CONTRACTOR TO ADJUST FENCE LOCATION AS NEEDED



UNOFFICIAL WEBSITE COPY

N:\38696-007\CADD\CPD\US9-SR30.dgn
4/22/2013 3:44:19 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	CONSTRUCTION PLAN	SHEET NO. 18
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

ROADWAY CORE SUMMARY

NO.	STATION	OFFSET	DESCRIPTION
3	108+47	6' LT.	10" HOT MIX ON 7.25" PCC
4	108+72	17' RT.	6" HOT MIX ON 4" SAND
5	108+75	2' RT.	7.25" HOT MIX ON 8.5" PCC
6	111+72	18' LT.	7.25" HOT MIX
7	112+72	5' RT.	11.5" HOT MIX ON 7" PCC
8	113+96	17' RT.	5.5" HOT MIX
13	409+15	14' RT.	9" HOT MIX

DRAINAGE PIPE SCHEDULE

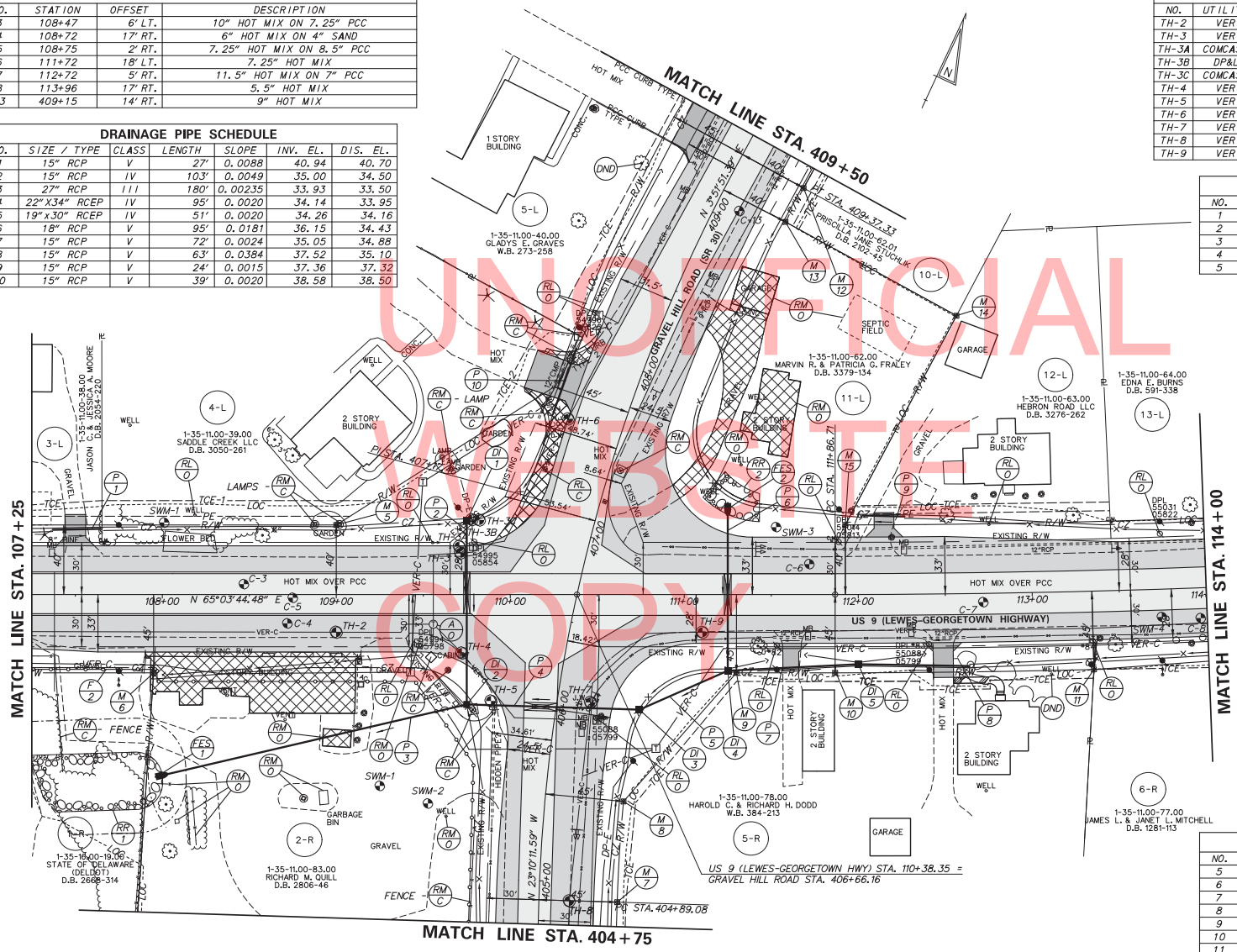
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.
1	15" RCP	V	27'	0.0088	40.94	40.70
2	15" RCP	IV	103'	0.0049	35.00	34.50
3	27" RCP	III	180'	0.00235	33.93	33.50
4	22"X34" RCEP	IV	95'	0.0020	34.14	33.95
5	19"x30" RCEP	IV	51'	0.0020	34.26	34.16
6	18" RCP	V	95'	0.0181	36.15	34.43
7	15" RCP	V	72'	0.0024	35.05	34.88
8	15" RCP	V	63'	0.0384	37.52	35.10
9	15" RCP	V	24'	0.0015	37.36	37.32
10	15" RCP	V	39'	0.0020	38.58	38.50

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O.D. & MATERIAL
TH-2	VER	108+99.96	21.65' RT	41.13	3.45	1¾" D.B. CABLE
TH-3	VER	109+71.36	23.94' LT	40.73	3.23	1" D.B. CABLE
TH-3A	COMCAST	109+70.74	27.59' LT	40.84	1.43	½" D.B. CABLE
TH-3B	DP&L	406+93.27	68.67' LT	40.36	2.25	(3)¾" D.B. CABLES
TH-3C	COMCAST	406+94.01	64.49' LT	40.33	0.55	½" D.B. CABLE
TH-4	VER	109+72.17	33.61' RT	40.61	3.26	1¾" D.B. CABLE
TH-5	VER	405+98.38	37.59' LT	40.15	2.66	1" D.B. CABLE
TH-6	VER	407+60.69	31.59' LT	39.69	2.50	1" D.B. CABLE
TH-7	VER	406+06.03	37.59' LT	39.12	3.34	1" D.B. CABLE
TH-8	VER	404+88.96	17.40' RT	40.64	3.35	1" D.B. CABLE
TH-9	VER	111+10.44	21.67' RT	39.78	3.29	1" D.B. CABLE

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
1	109+75	43' LT.	48" X 48"	1	38.35	35.00
2	405+96	51' LT.	72" X 72"	1	39.00	33.93
3	406+06	48' RT.	66" X 48"	1	37.70	34.14
4	111+25	44' RT.	66" X 48"	1	38.25	34.26
5	112+00	40' RT.	34" X 24"	1	38.00	35.05



RIPRAP SCHEDULE

NO.	TYPE	AREA
1	R-5	68 SY
2	R-5	48 SY

FLARED END SECTION SCHEDULE

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
1	27" REINFORCED CONCRETE	0.00235	NO
2	18" REINFORCED CONCRETE	0.0181	YES

RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
5	CAPPED REBAR	109+00.00	40.00' LT	260090.8810	684565.9641
6	CAPPED REBAR	107+95.03	45.00' RT	259969.5477	684506.6208
7	CONCRETE	404+89.08	45.00' RT	259962.3254	684803.7887
8	CAPPED REBAR	405+50.00	45.00' RT	260016.3699	684782.6818
9	CAPPED REBAR	111+30.00	45.00' RT	260110.7810	684810.3593
10	CONCRETE	111+86.71	45.00' RT	260134.6929	684861.7844
11	CAPPED REBAR	113+34.30	45.00' RT	260199.1393	684995.8403
12	CONCRETE	409+37.33	40.00' RT	260379.7334	684727.8623
13	CAPPED REBAR	409+14.28	40.00' RT	260357.6858	684726.6416
14	CAPPED REBAR	409+11.16	152.05' RT	260350.2317	684838.4747
15	CAPPED REBAR	111+92.60	40.00' LT	260214.2348	684831.2436

FENCE SCHEDULE

NO.	QTY.	DESCRIPTION	NOTES
2	376 LF	CHAIN LINK FENCE, 8 FT. HIGH (ITEM 727007)	CONTRACTOR TO ADJUST FENCE LOCATION AS NEEDED

UNOFFICIAL WEBSITE COPY

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

HSIP SUSSEX COUNTY US 9 PROJECTS

CONTRACT	BRIDGE NO. N/A	CONSTRUCTION PLAN	SHEET NO.
T200800901	DESIGNED BY: J.L.R.		19
COUNTY			TOTAL SHTS.
SUSSEX	CHECKED BY: R.R.W.		161

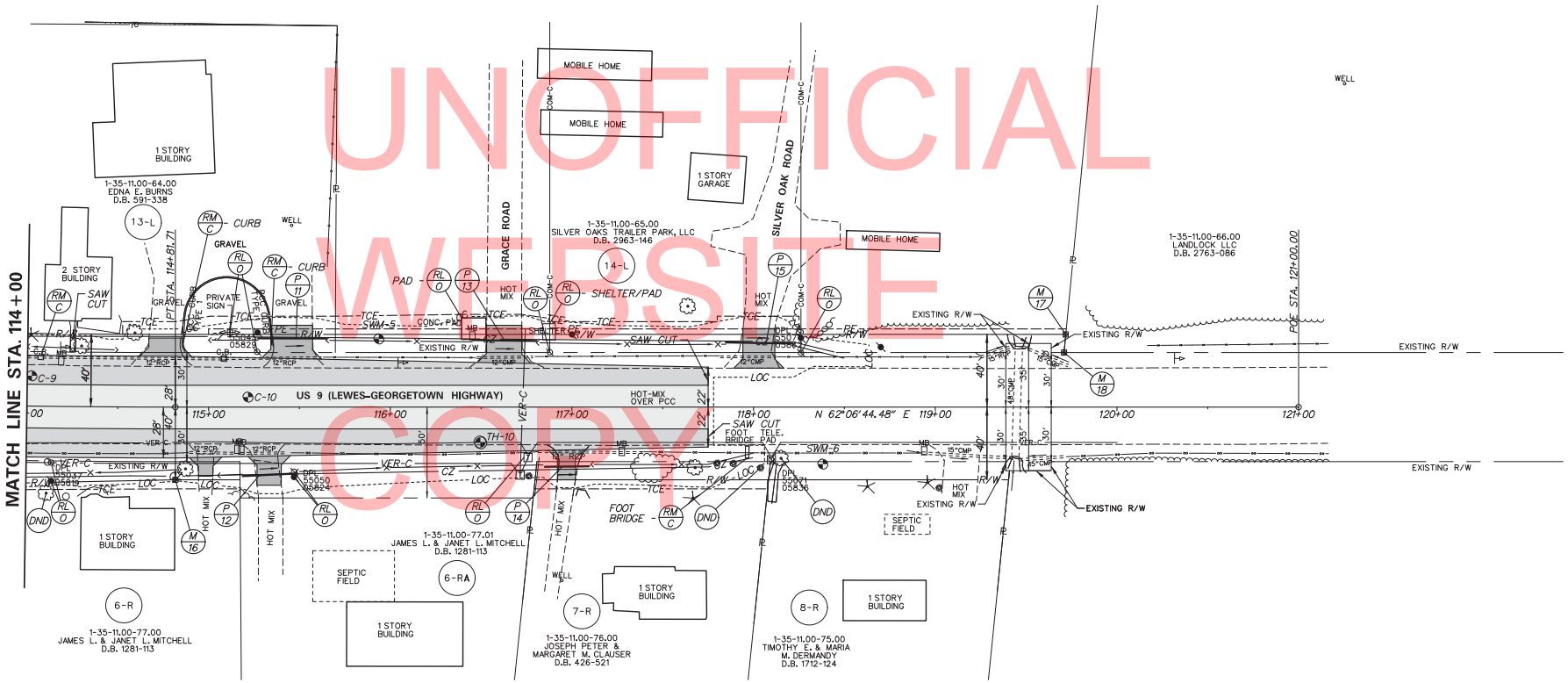
N:\38606-007\CADD\CPD2U59-SR30.dgn
4/22/2013 12:05:50 PM

UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O.D. & MATERIAL
TH-10	VER	116+49.62	19.46' RT	38.00	1.93	1" D.B. CABLE

ROADWAY CORE SUMMARY			
NO.	STATION	OFFSET	DESCRIPTION
9	114+03	17' LT.	8.5" HOT MIX
10	115+22	6' LT.	8.5" HOT MIX ON 7" PCC

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.
11	15" RCP	V	37'	0.0043	36.67	36.51
12	15" RCP	V	29'	0.0020	37.08	37.02
13	15" RCP	V	35'	0.0026	36.27	36.18
14	15" RCP	V	24'	0.0030	36.75	36.67
15	14"X23" RCEP	IV	37'	0.0023	35.91	35.83

RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
16	CONCRETE	114+81.71	40.00' RT	260271.3539	685125.6974
17	CAPPED REBAR	119+71.84	40.00' LT	260571.3138	685521.4830
18	CAPPED REBAR	119+70.87	40.00' LT	260562.0235	685525.3071



UNOFFICIAL WEBSITE COPY

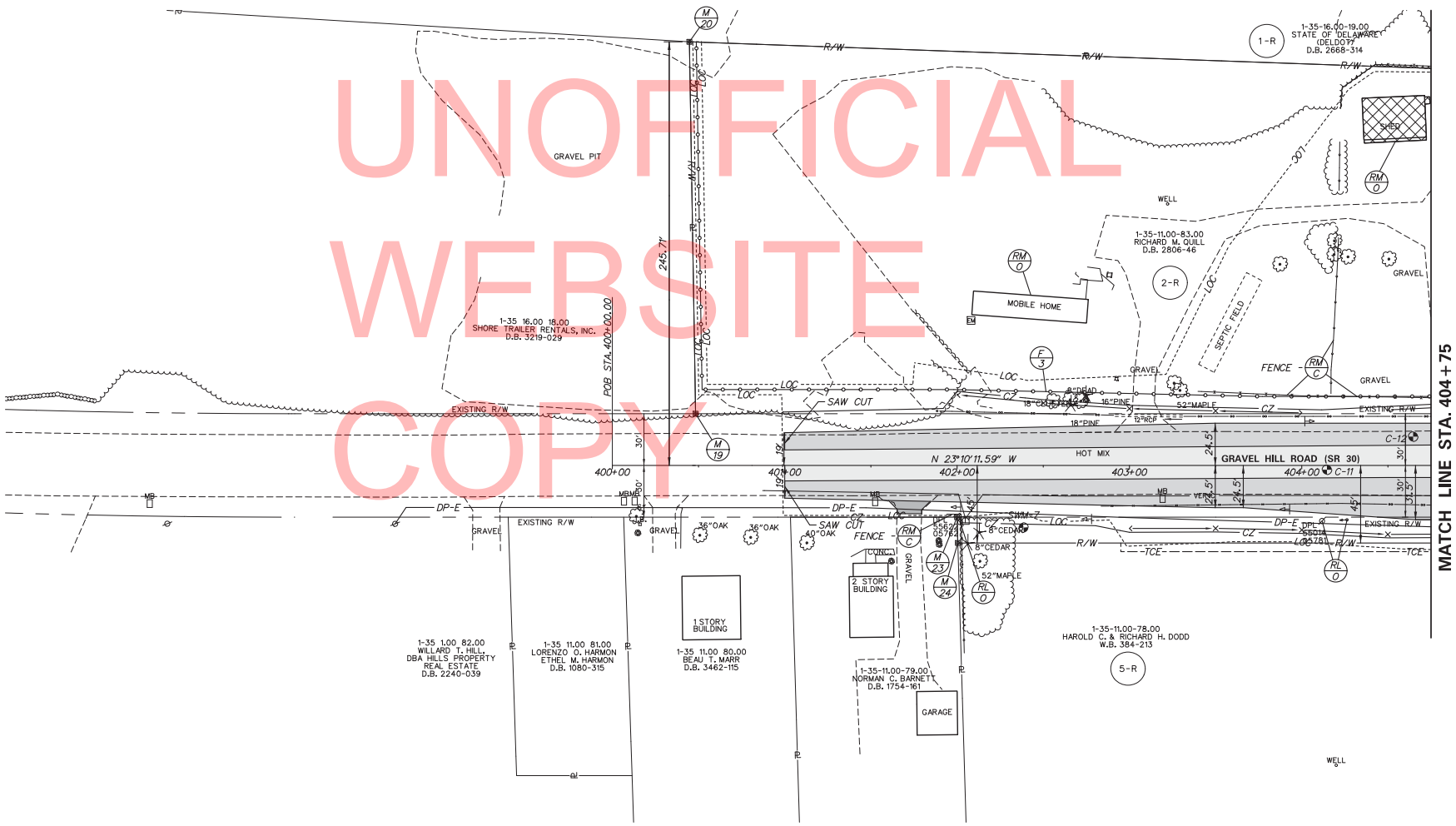
N:\38606-007\CADD\CPD\US9-SR30.dgn
4/22/2013 12:05:53 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	CONSTRUCTION PLAN	SHEET NO. 20
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

ROADWAY CORE SUMMARY			
NO.	STATION	OFFSET	DESCRIPTION
11	404+15	3' RT.	13" HOT MIX
12	404+65	17' LT.	4" HOT MIX

RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
19	CAPPED REBAR	400+48.30	30.00' LT	259527.5857	684908.2679
20	CAPPED REBAR	400+44.70	245.71' LT	259439.4015	684711.3714
23	CAPPED REBAR	402+00.00	30.00' RT	259690.6557	684903.7415
24	CAPPED REBAR	402+00.44	45.00' RT	259696.9642	684917.3576

FENCE SCHEDULE			
NO.	QTY.	DESCRIPTION	NOTES
3	625 LF	CHAIN LINK FENCE, 8 FT. HIGH (ITEM 727007)	CONTRACTOR TO ADJUST FENCE LOCATION AS NEEDED



UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\CPD4US9-SR30.dgn
4/22/2013 3:48:08 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	CONSTRUCTION PLAN	SHEET NO. 21
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL
TH-11	VER	412+90.16	15.55' LT	38.84	2.90	1" D.B. CABLE

ROADWAY CORE SUMMARY

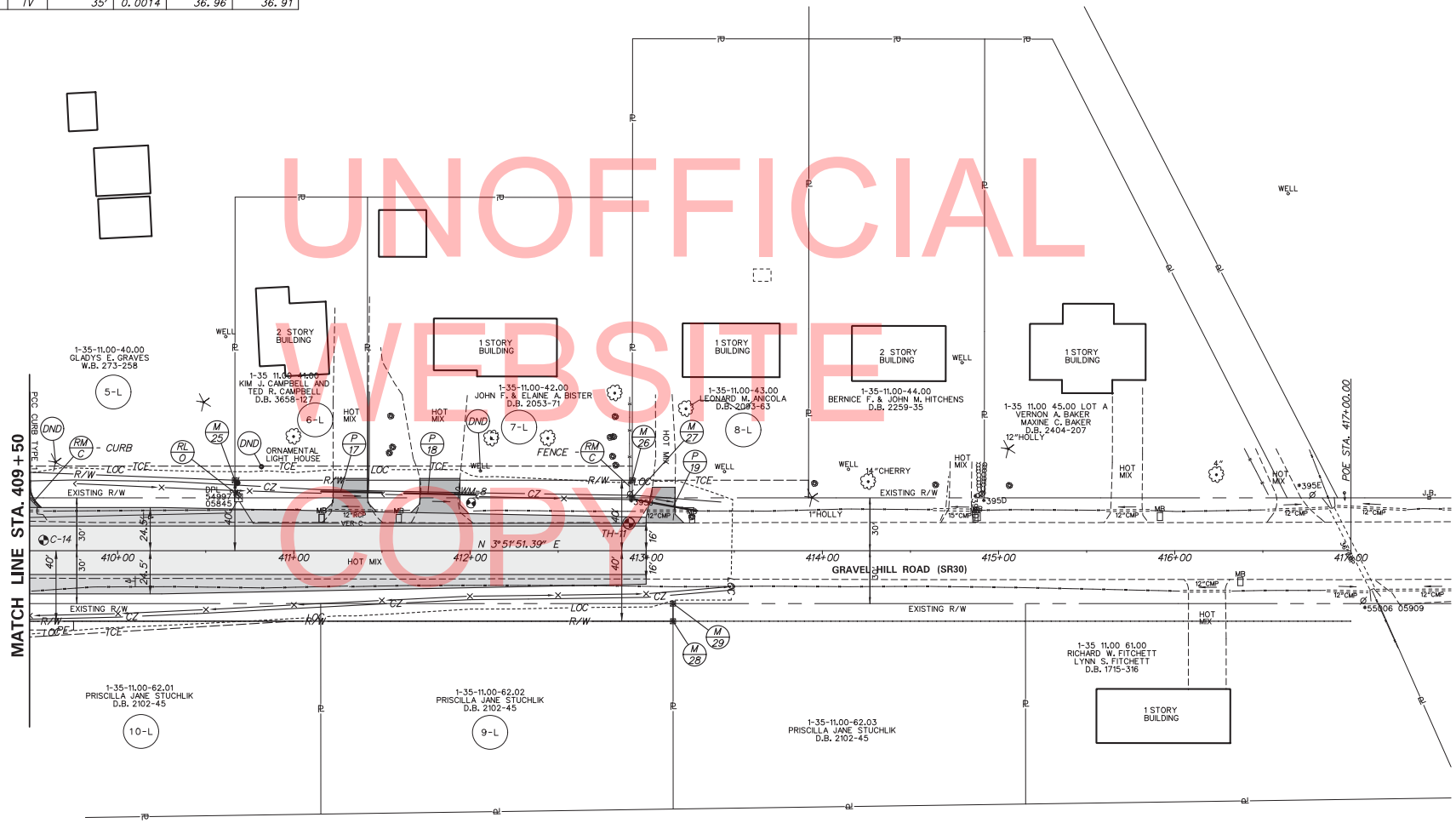
NO.	STATION	OFFSET	DESCRIPTION
14	409+65	6' LT.	5" HOT MIX ON 1.5" SURFACE TREATMENT

RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
25	CAPPED REBAR	410+66.54	40.00' LT	260514.0446	684656.7524
26	CAPPED REBAR	412+92.07	40.00' LT	260739.0708	684671.9522
27	CAPPED REBAR	412+92.07	30.00' LT	260738.3884	684681.9289
28	CAPPED REBAR	413+15.22	40.00' RT	260756.7683	684753.3298
29	CAPPED REBAR	413+15.21	30.00' RT	260757.4334	684743.3520

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.
17	15" RCP	V	36'	0.0023	37.33	37.25
18	15" RCP	V	41'	0.0022	37.23	37.14
19	14"X23" RCEP	IV	35'	0.0014	36.96	36.91

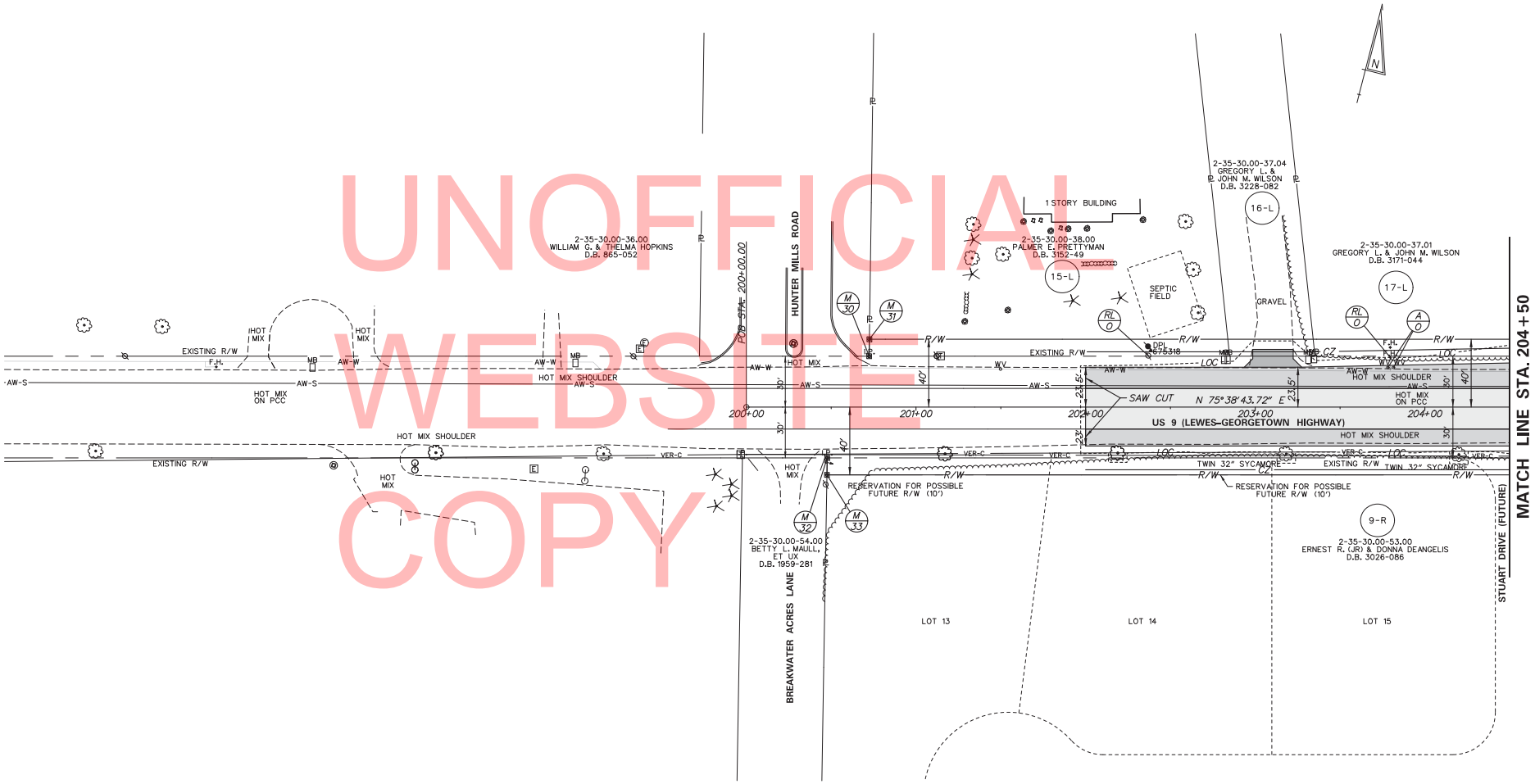


UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\CPD5459-SR30.dgn
4/22/2013 12:45:57 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	CONSTRUCTION PLAN	SHEET NO. 22
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
30	CAPPED REBAR	201+00.00	30.00' LT	265433.8385	699023.1123
31	CAPPED REBAR	201+00.00	40.00' LT	265443.5606	699020.7671
32	CAPPED REBAR	200+47.65	30.00' RT	265369.5861	699014.0396
33	CAPPED REBAR	200+47.49	40.00' RT	265359.8542	699016.3579



UNOFFICIAL WEBSITE COPY

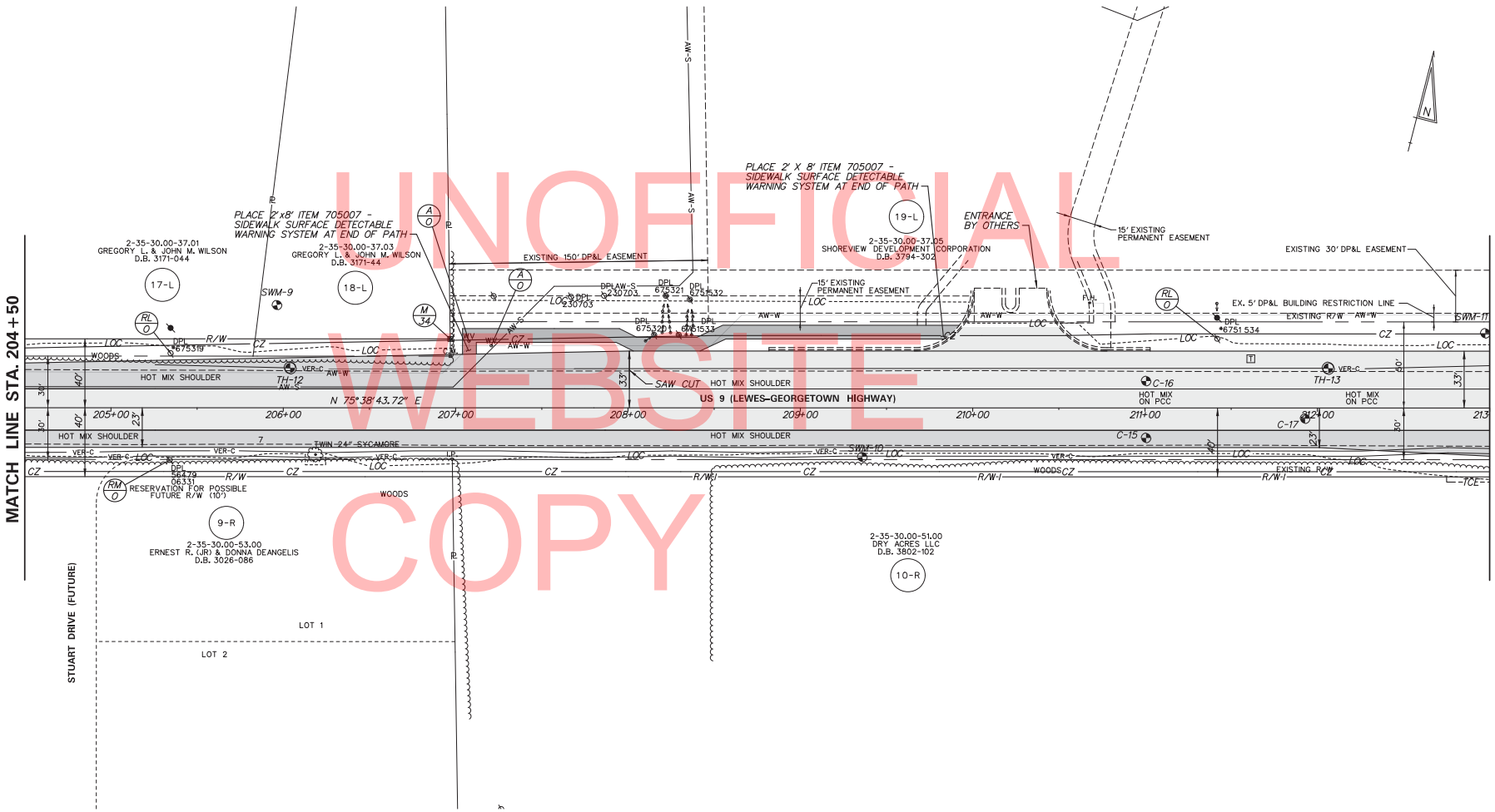
N:\31606-007\CADD\CPD\US9-hudson.dgn
12/22/2015 12:55:58 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	CONSTRUCTION PLAN	SHEET NO. 23
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
34	CAPPED REBAR	206+96.84	40.00' LT	265598.3443	699625.6024

ROADWAY CORE SUMMARY			
NO.	STATION	OFFSET	DESCRIPTION
15	211+00	17' RT.	6" HOT MIX ON SAND
16	211+00	16' LT.	6" HOT MIX ON SAND
17	211+93	6' RT.	8" HOT MIX ON 7" PCC

UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O.D. & MATERIAL
TH-12	VER	206+03.99	23.17' LT	32.95	2.53	1½" D.B. CABLE
TH-13	VER	212+06.33	20.07' LT	34.53	2.71	1½" D.B. CABLE



UNOFFICIAL WEBSITE COPY

N:\38606-007\CADD\CP07\159-Hudson.dgn
4/22/2013 12:06:00 PM

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

HSIP SUSSEX COUNTY US 9 PROJECTS

CONTRACT	BRIDGE NO.	N/A
T200800901	DESIGNED BY: J.L.R.	
COUNTY		
SUSSEX	CHECKED BY: R.R.W.	

CONSTRUCTION PLAN

SHEET NO.
24
TOTAL SHTS.
161

ROADWAY CORE SUMMARY

NO.	STATION	OFFSET	DESCRIPTION
18	211+87	18' RT.	8" HOT MIX
19	213+20	15' LT.	8.5" HOT MIX
20	213+67	7' RT.	9" HOT MIX ON 7" CRUSHER RUN
21	216+00	3' LT.	8.5" HOT MIX ON 7" PCC (BAD)
22	216+00	1' LT.	8.5" HOT MIX ON 7" PCC
23	216+25	18' RT.	6" HOT MIX ON SAND
24	216+25	16' LT.	7" HOT MIX ON SAND

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	PCC CURB, TYPE 2	100'
2	PCC CURB, TYPE 2	123'

RIPRAP SCHEDULE

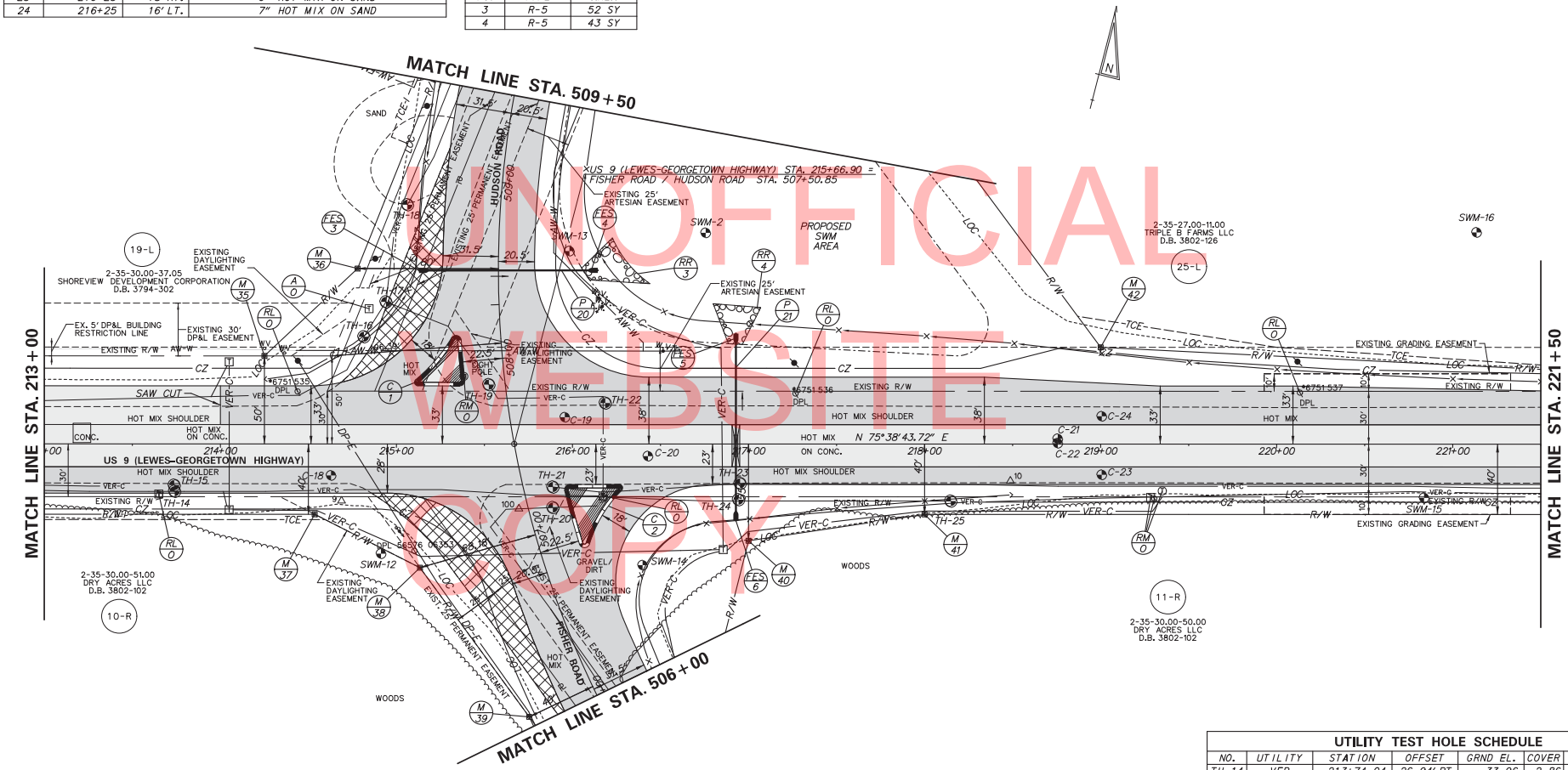
NO.	TYPE	AREA
3	R-5	52 SY
4	R-5	43 SY

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.
20	14"X23" RCEP	IV	102'	0.0274	31.28	28.50
21	14"X23" RCEP	IV	106'	0.0141	30.00	28.50

FLARED END SECTION SCHEDULE

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
3	14"X23" REINFORCED CONCRETE	0.0274	NO
4	14"X23" REINFORCED CONCRETE	0.0274	NO
5	14"X23" REINFORCED CONCRETE	0.0141	NO
6	14"X23" REINFORCED CONCRETE	0.0141	NO



UNOFFICIAL WEBSITE COPY

RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
35	CAPPED REBAR	214+25.00	50.00' LT	265788.5589	700328.5526
36	CAPPED REBAR	508+50.99	80.00' LT	265849.7911	700367.4877
37	CAPPED REBAR	214+53.56	40.00' RT	265708.4505	700378.5385
38	CAPPED REBAR	506+97.78	68.18' LT	265693.8898	700444.0165
39	CAPPED REBAR	506+05.51	40.00' LT	265627.1688	700525.1609
40	CAPPED REBAR	217+00.00	55.00' RT	265755.0152	700620.9988
41	CAPPED REBAR	218+00.00	40.00' RT	265794.3390	700714.1580
42	CAPPED REBAR	219+00.00	55.00' LT	265911.1652	700787.4835

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O.D. & MATERIAL
TH-14	VER	213+74.04	26.94' RT	33.96	2.86	1½" D.B. CABLE
TH-15	VER	213+73.77	23.45' RT	34.67	2.77	1½" D.B. CABLE
TH-16	VER	508+16.99	77.55' LT	34.33	2.73	1½" D.B. CABLE
TH-17	VER	508+34.03	64.11' LT	34.52	2.79	2½" CABLE
TH-18	VER	508+84.14	52.77' LT	33.93	1.60	2½" D.B. CABLE
TH-19	VER	507+86.05	9.25' LT	34.37	2.22	2½" D.B. CABLE
TH-20	VER	507+10.31	13.64' RT	33.66	2.30	1½" D.B. CABLE
TH-21	VER	507+21.94	16.46' RT	33.95	2.61	1½" D.B. CABLE
TH-22	VER	216+18.63	23.26' LT	33.91	3.34	2½" D.B. CABLE
TH-23	VER	216+95.21	22.39' RT	33.24	2.64	1½" D.B. CABLE
TH-24	VER	216+94.33	31.65' RT	32.88	3.02	1¼" D.B. CABLE
TH-25	VER	218+14.92	32.39' RT	31.43	3.06	1" D.B. CABLE

N:\38606-007\CADD\CPDBUS9-Hudson.dgn
4/22/2013 12:06:02 PM

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

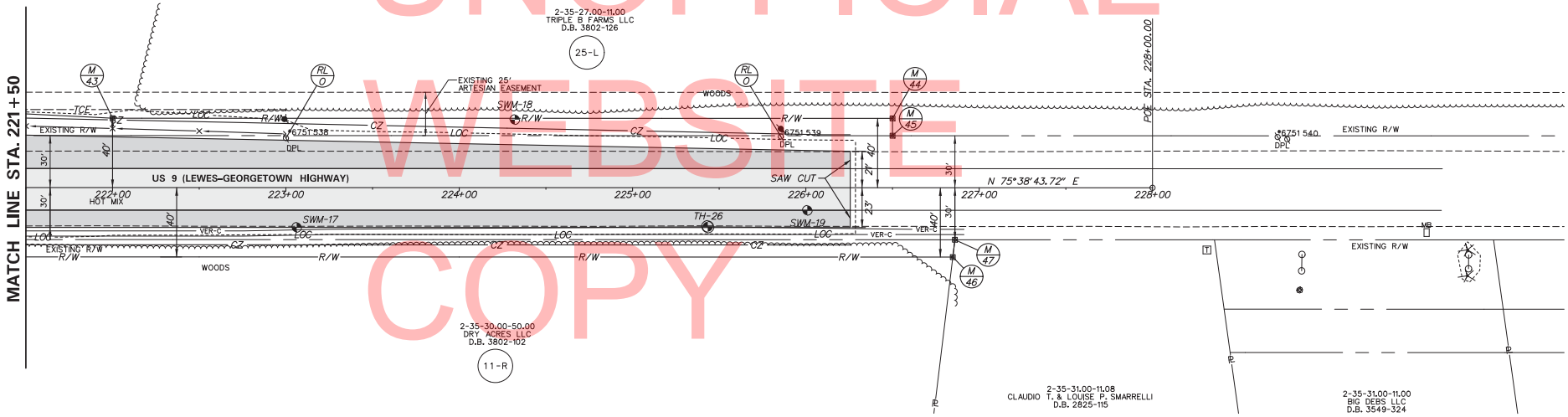
SCALE 0 30 60 90 FEET

HSIP SUSSEX COUNTY US 9 PROJECTS

CONTRACT	BRIDGE NO. N/A	CONSTRUCTION PLAN	SHEET NO.
T200800901	DESIGNED BY: J.L.R.		25
COUNTY			TOTAL SHTS.
SUSSEX	CHECKED BY: R.R.W.		161

RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
43	CAPPED REBAR	222+00.00	40.00' LT	265971.0098	701081.8364
44	CAPPED REBAR	226+50.00	40.00' LT	266082.5743	701517.7876
45	CAPPED REBAR	226+50.00	30.00' LT	266072.8865	701520.2668
46	CAPPED REBAR	226+84.78	40.00' RT	266013.6936	701571.3117
47	CAPPED REBAR	226+85.98	30.00' RT	266023.6809	701570.0029

UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O.D. & MATERIAL
TH-26	VER	225+43.40	22.49' RT	28.24	2.76	1½" D.B. CABLE



UNOFFICIAL WEBSITE COPY

N:\38806-007\CADD\CPD9US9-Hudson.dgn
4/22/2013 12:06:04 PM

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

HSIP SUSSEX COUNTY US 9 PROJECTS

CONTRACT	BRIDGE NO.	N/A
T200800901	DESIGNED BY: J.L.R.	
COUNTY		
SUSSEX	CHECKED BY: R.R.W.	

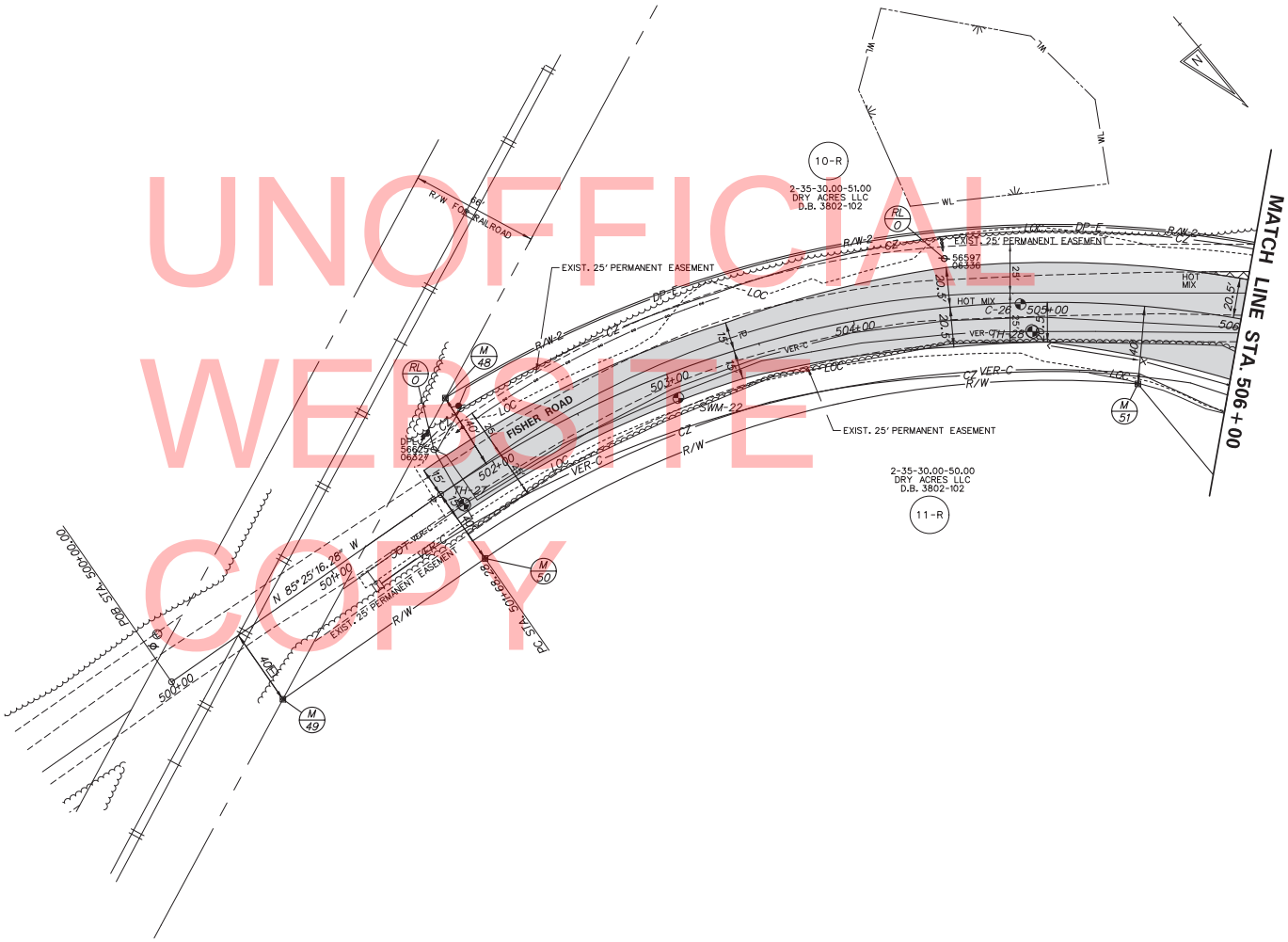
CONSTRUCTION PLAN

SHEET NO.
26
TOTAL SHTS.
161

ROADWAY CORE SUMMARY			
NO.	STATION	OFFSET	DESCRIPTION
26	504+86	1' RT.	3.5" HOT MIX ON 1.5" SURFACE TREATMENT

RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
48	CAPPED REBAR	501+96.54	40.00' LT	265420.4917	700900.7212
49	CAPPED REBAR	500+41.80	40.00' RT	265486.9441	701063.3290
50	CONCRETE	501+68.28	40.00' RT	265497.0412	700937.2508
51	CAPPED REBAR	505+50.00	40.00' RT	265640.6837	700621.4925

UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O.D. & MATERIAL
TH-27	VER	501+75.36	10.89' RT	31.27	2.47	1½" D.B. CABLE
TH-28	VER	504+92.04	14.87' RT	31.85	2.54	1½" D.B. CABLE



UNOFFICIAL WEBSITE COPY

N:\38696-007\CADD\CPD\US9-Hudson.dgn
4/22/2013 12:06:05 PM

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

HSIP SUSSEX COUNTY US 9 PROJECTS

CONTRACT	BRIDGE NO. N/A
T200800901	DESIGNED BY: J.L.R.
COUNTY	
SUSSEX	CHECKED BY: R.R.W.

CONSTRUCTION PLAN

SHEET NO. 27
TOTAL SHTS. 161

ROADWAY CORE SUMMARY

NO.	STATION	OFFSET	DESCRIPTION
25	502+32	19' LT.	2.25" HOT MIX ON 2" SURFACE TREATMENT AND 2" ASPHALT TREATED BASE

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O.D. & MATERIAL
TH-29	VER	511+22.95	10.92' LT	32.29	2.56	1½" D.B. CABLE
TH-30	VER	511+33.72	19.08' RT	31.81	2.34	1½" D.B. CABLE
TH-57	VER	510+31.36	11.58' RT	33.13	3.39	4" PVC CONDUIT

DRAINAGE PIPE SCHEDULE

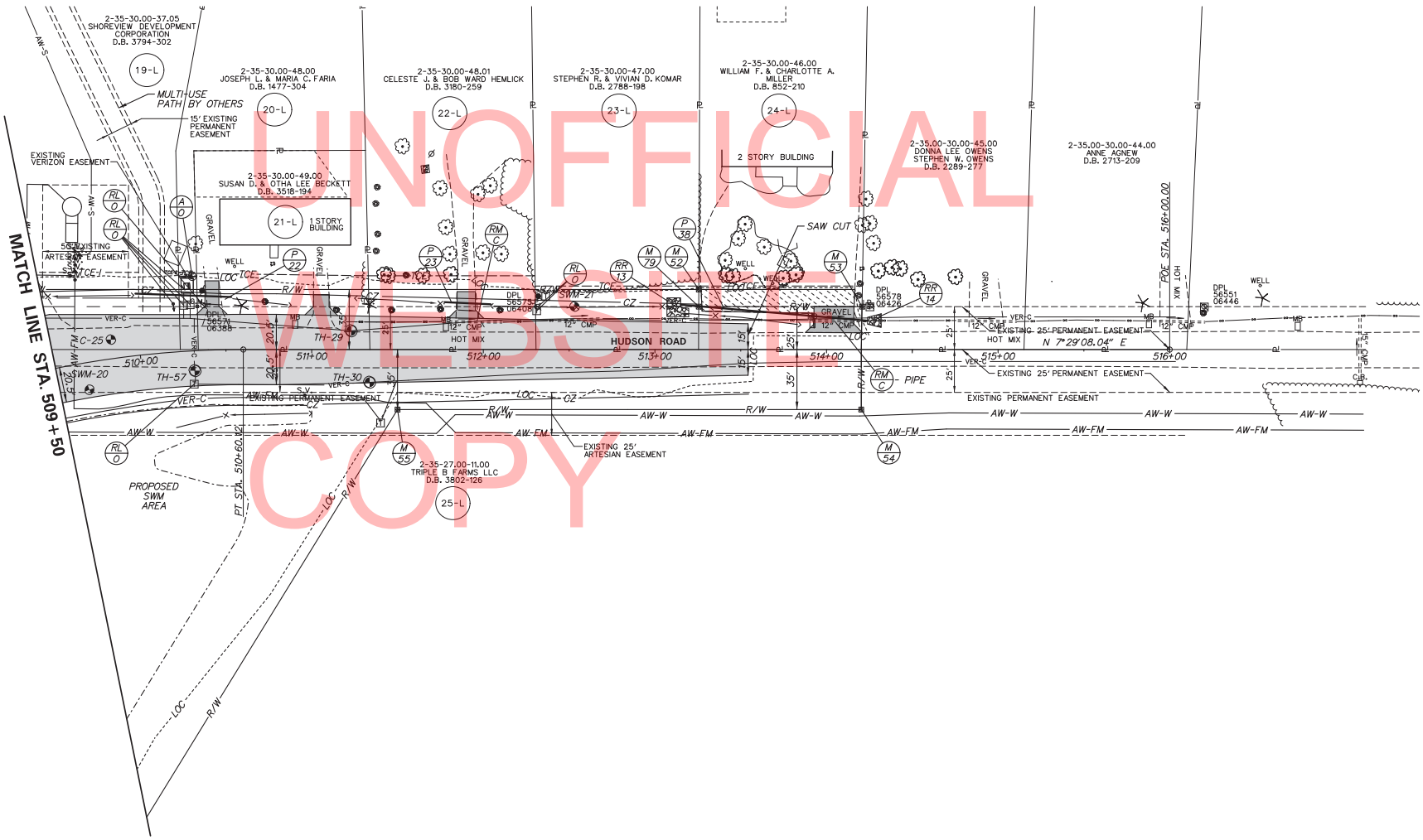
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.
22	14"X23" RCEP	IV	56'	0.0035	32.09	31.89
23	15" RCP	V	27'	0.0104	30.12	29.84
38	12" RCP	V	109'	0.0053	28.95	28.37

RIPRAP SCHEDULE

NO.	TYPE	AREA
13	R-5	12 SY
14	R-5	5 SY

RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
52	CAPPED REBAR	513+25.57	35.00' LT	266344.8141	700432.5319
53	CAPPED REBAR	514+20.70	25.04' LT	266437.8295	700454.7992
54	CAPPED REBAR	514+20.26	35.00' RT	266429.5699	700514.2702
55	CAPPED REBAR	511+50.00	35.00' RT	266161.6173	700479.0622
79	CAPPED REBAR	513+25.53	25.00' LT	266343.4707	700442.4413



UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\CPTN\SP-Hudson.dgn
4/22/2013 12:06:07 PM

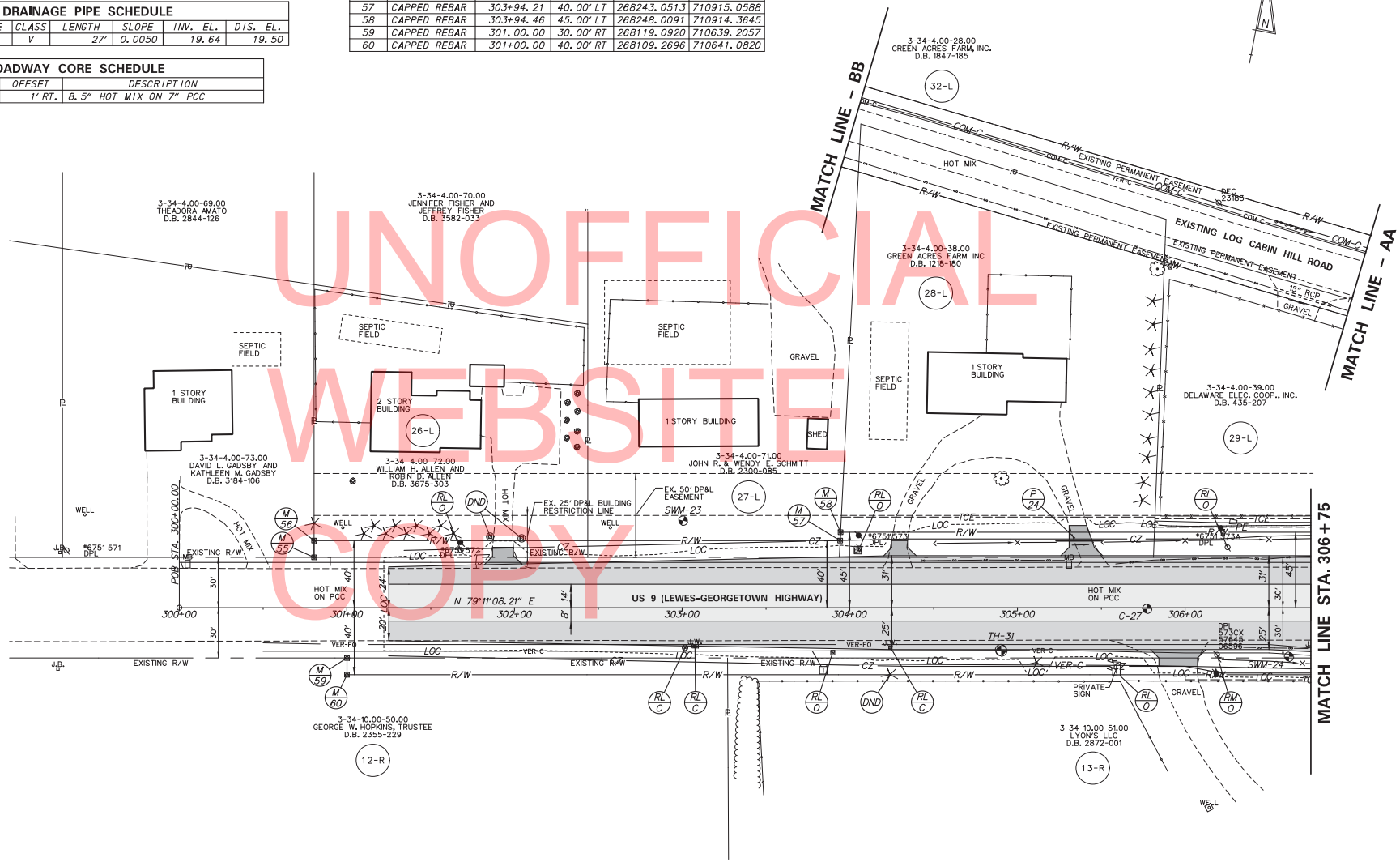
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	CONSTRUCTION PLAN	SHEET NO. 28
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL
TH-31	VER	304+90.24	25.42' RT	20.97	1.52	2" METAL CONDUIT

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.
24	15" RCP	V	27'	0.0050	19.64	19.50

ROADWAY CORE SCHEDULE			
NO.	STATION	OFFSET	DESCRIPTION
27	305+77	1' RT.	8.5" HOT MIX ON 7" PCC

RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
55	CAPPED REBAR	300+80.37	30.00' LT	268174.3437	710608.6687
56	CAPPED REBAR	300+80.37	40.00' LT	268184.1661	710606.7924
57	CAPPED REBAR	303+94.21	40.00' LT	268243.0513	710915.0588
58	CAPPED REBAR	303+94.46	45.00' LT	268248.0091	710914.3645
59	CAPPED REBAR	301.00.00	30.00' RT	268119.0920	710639.2057
60	CAPPED REBAR	301+00.00	40.00' RT	268109.2696	710641.0820



UNOFFICIAL WEBSITE COPY

N:\38806-007\CADD\CP\2U59-Dairy.dgn
4/22/2013 3:41:41 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	CONSTRUCTION PLAN	SHEET NO. 29
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
25	14"X23" RCEP	IV	110'	0.0035	18.40	18.02
26	22"X34" RCEP	IV	8'	0.0025	17.98	17.96
27	24"X38" RCEP	IV	34'	0.0018	17.96	17.90
33	24"X38" RCEP	IV	396'	0.0018	17.90	17.19
36	15" RCP	V	53'	0.0040	19.13	18.92

ROADWAY CORE SUMMARY

NO.	STATION	OFFSET	DESCRIPTION
28	306+83	20' LT.	6.5" HOT MIX
29	309+07	14' RT.	7" HOT MIX ON 2.5" SAND
30	311+18	20' LT.	7" HOT MIX ON 3" SAND
34	801+89	4' RT.	3.25" HOT MIX ON 2.75" SURFACE TREATMENT

RIPRAP SCHEDULE

NO.	TYPE	AREA
6	R-5	53 SY
7	R-5	27 SY

UTILITY TEST HOLE SCHEDULE

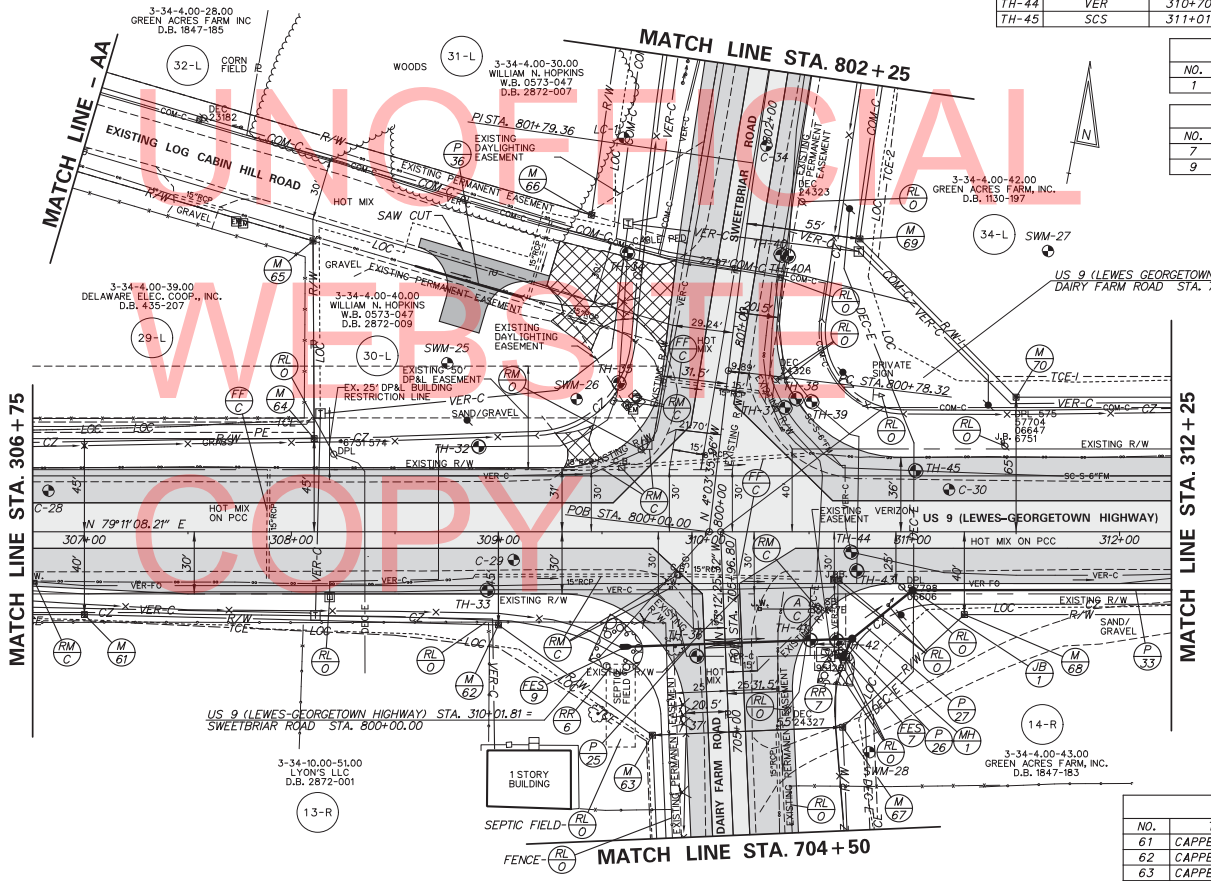
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O.D. & MATERIAL
TH-32	VER	308+90.45	41.13' LT	20.34	2.17	(2) 2" PLASTIC CONDUIT
TH-33	VER	308+94.63	28.33' RT	20.49	2.63	¾" D.B. CABLE
TH-34	VER	801+28.35	55.34' LT	20.93	1.80	¾" D.B. CABLE
TH-35	VER	800+66.23	51.81' LT	21.13	3.68	(2) 2" PLASTIC CONDUIT
TH-36	VER	705+37.23	13.94' LT	21.39	2.08	¾" D.B. CABLE
TH-37	VER	800+63.90	29.23' RT	20.60	4.40	2½" D.B. CABLE
TH-38	SCS	800+68.77	34.15' RT	20.51	3.18	6" PLASTIC
TH-39	VER	800+68.20	41.75' RT	20.56	1.25	1" D.B. CABLE
TH-40	SCS	801+37.06	18.30' RT	20.86	6.35	6" PLASTIC
TH-40A	VER	801+37.12	21.78' RT	20.80	2.32	2½" D.B. CABLE
TH-41	DEC	705+42.74	41.18' RT	20.82	3.39	5" PLASTIC CONDUIT
TH-42	VER	705+41.98	53.99' RT	20.60	2.60	(1) 1"CABLE, (1) 2"CABLE
TH-43	VER	310+73.11	18.85' RT	20.58	2.44	2½" D.B. CABLE
TH-44	VER	310+70.35	9.84' RT	20.44	2.20	1½" D.B. CABLE
TH-45	SCS	311+01.52	29.52' LT	19.48	3.59	6" PLASTIC

MANHOLE SCHEDULE

NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
1	705+43	53' RT.	66" X 66"	22.00	17.96

FLARED END SECTION SCHEDULE

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
7	22"X34" REINFORCED CONCRETE	0.0025	YES
9	14"X23" REINFORCED CONCRETE	0.0035	YES



JUNCTION BOX SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	INV. EL.
1	311+00	28' RT.	66"X66"	17.90

RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
61	CAPPED REBAR	307+00.00	40.00' RT	268221.8464	711230.4260
62	CAPPED REBAR	309+00.00	45.00' RT	268254.4608	711427.8123
63	CAPPED REBAR	705+00.00	37.00' LT	268216.0935	711510.8118
64	CAPPED REBAR	308+10.98	45.00' LT	268326.1597	711323.4867
65	CAPPED REBAR	308+10.42	140.45' LT	268419.8083	711305.0275
66	CAPPED REBAR	801+43.97	75.00' LT	268457.3299	711434.8279
67	CAPPED REBAR	705+00.00	55.00' RT	268237.1128	711600.3785
68	CAPPED REBAR	311+00.00	40.00' RT	268301.5883	711647.8782
69	CAPPED REBAR	801+50.00	55.00' RT	268470.3399	711564.3163
70	CAPPED REBAR	311+50.00	65.00' LT	268409.4142	711652.7332

UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\CP\US9-Dairy.dgn
4/22/2013 12:06:09 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	CONSTRUCTION PLAN	SHEET NO. 30
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

ROADWAY CORE SUMMARY

NO.	STATION	OFFSET	DESCRIPTION
31	312+43	9' LT	8.25" HOT MIX ON 7" PCC
32	313+32	14' LT	6" HOT MIX ON 3" SAND
33	320+00	4' RT	5.75" HOT MIX ON 8" PCC

MANHOLE SCHEDULE

NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
3	315+00	28' RT.	66" x 66"	21.25	17.19

RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
71	CAPPED REBAR	317+75.00	40.00' RT	268423.5464	712286.3343
72	CAPPED REBAR	317+75.00	30.00' RT	268433.3688	712284.4580
73	CAPPED REBAR	318+25.00	65.00' LT	268536.0631	712315.7453
74	CAPPED REBAR	318+25.00	40.00' LT	268511.5070	712320.4361

DRAINAGE PIPE SCHEDULE

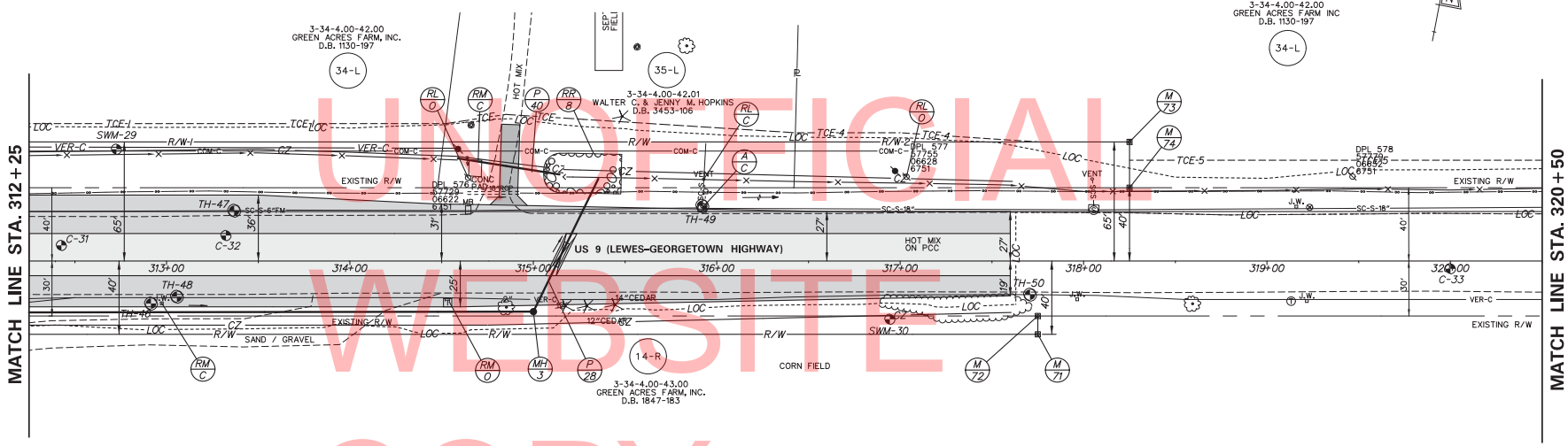
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.
28	24"X38" RCEP	IV	80'	0.0018	17.19	17.05
40	24" RCP	IV	59'	0.003	17.00	16.82
41	19"X30" RCEP	IV	32'	0.002	16.05	15.99
42	19"X30" RCEP	IV	24'	0.002	15.27	15.22

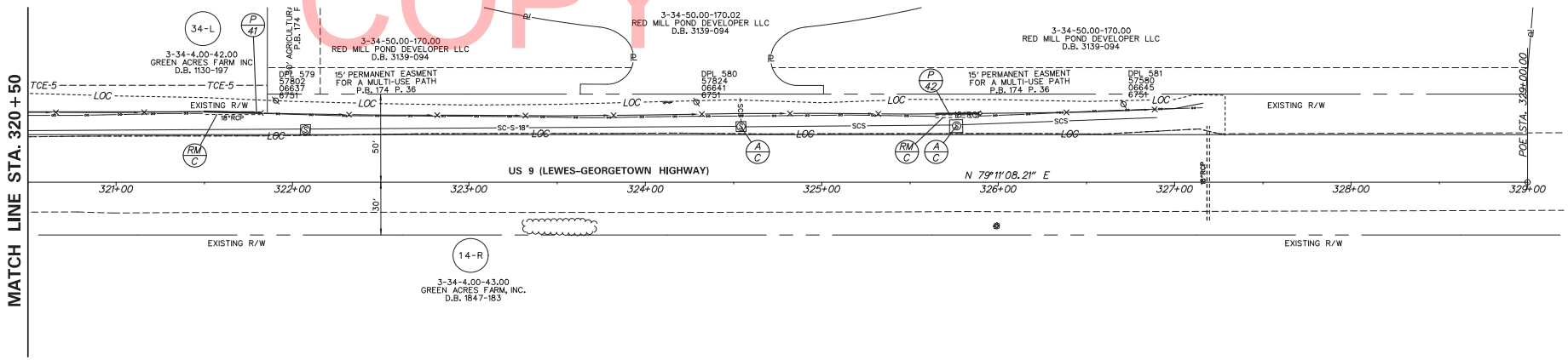
UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O.D. & MATERIAL
TH-46	DELDOT	312+91.55	23.22' RT	20.05	1.66	3" METAL CONDUIT
TH-47	SCS	313+36.87	27.48' LT	19.46	3.46	6" PLASTIC
TH-48	VER	313+05.65	19.48' RT	20.44	2.42	1½" D.B. CABLE
TH-49	SCS	315+92.08	30.16' LT	20.53	7.31	4" PLASTIC PIPE
TH-50	VER	317+70.78	18.36' RT	20.48	2.33	1½" D.B. CABLE

RIPRAP SCHEDULE

NO.	TYPE	AREA
8	R-5	97 SY





UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\CPH-US9-Dairy.dgn
4/22/2013 12:06:13 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	CONSTRUCTION PLAN	SHEET NO. 31
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

ROADWAY CORE SUMMARY

NO.	STATION	OFFSET	DESCRIPTION
37	703+72	4' RT.	2" HOT MIX / 1.5" SURFACE TREATMENT / 4.5" ASPHALT TREATED BASE

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.
29	14"X23" RCEP	V	73'	0.0105	19.33	18.56
30	14"X23" RCEP	V	40'	0.0045	19.08	18.90
31	14"X23" RCEP	V	71'	0.0020	18.56	18.42
32	14"X23" RCEP	V	78'	0.0021	18.42	18.26

RIPRAP SCHEDULE

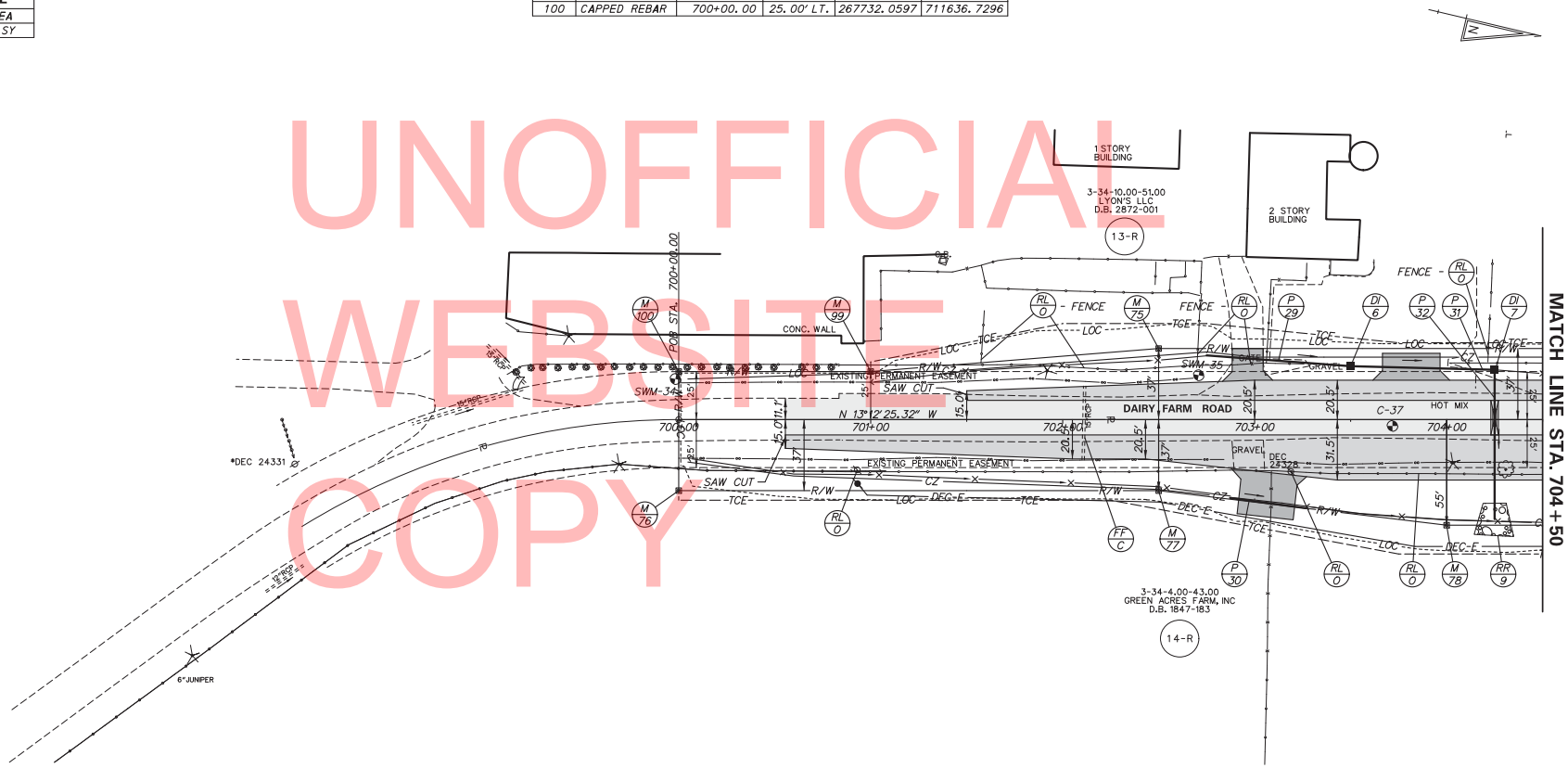
NO.	TYPE	AREA
9	R-5	30 SY

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
6	703+50	30' LT.	48" X 48"	1	21.30	18.56
7	704+25	30' LT.	48" X 48"	1	21.22	18.43

RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
75	CAPPED REBAR	702+50.00	37.00' LT	267972.7058	711567.9294
76	CAPPED REBAR	700+00.00	37.00' RT	267746.2249	711697.0898
77	CAPPED REBAR	701+98.32	37.00' RT	267989.6126	711639.9722
78	CAPPED REBAR	703+50.00	45.00' RT	268139.7577	711623.2255
99	CAPPED REBAR	701+00.00	25.00' LT.	267829.4148	711613.8826
100	CAPPED REBAR	700+00.00	25.00' LT.	267732.0597	711636.7296



UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\CP15US9-Dairy.dgn
4/22/2013 12:06:16 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	CONSTRUCTION PLAN	SHEET NO. 32
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

ROADWAY CORE SUMMARY

NO.	STATION	OFFSET	DESCRIPTION
35	803+74	13' RT.	6" HOT MIX
36	804+99	0	1.5" SURFACE TREATMENT ON 4" ASPHALT TREATED BASE

RIPRAP SCHEDULE

NO.	TYPE	AREA
12	R-5	20 SY

RIGHT-OF-WAY MONUMENT SCHEDULE

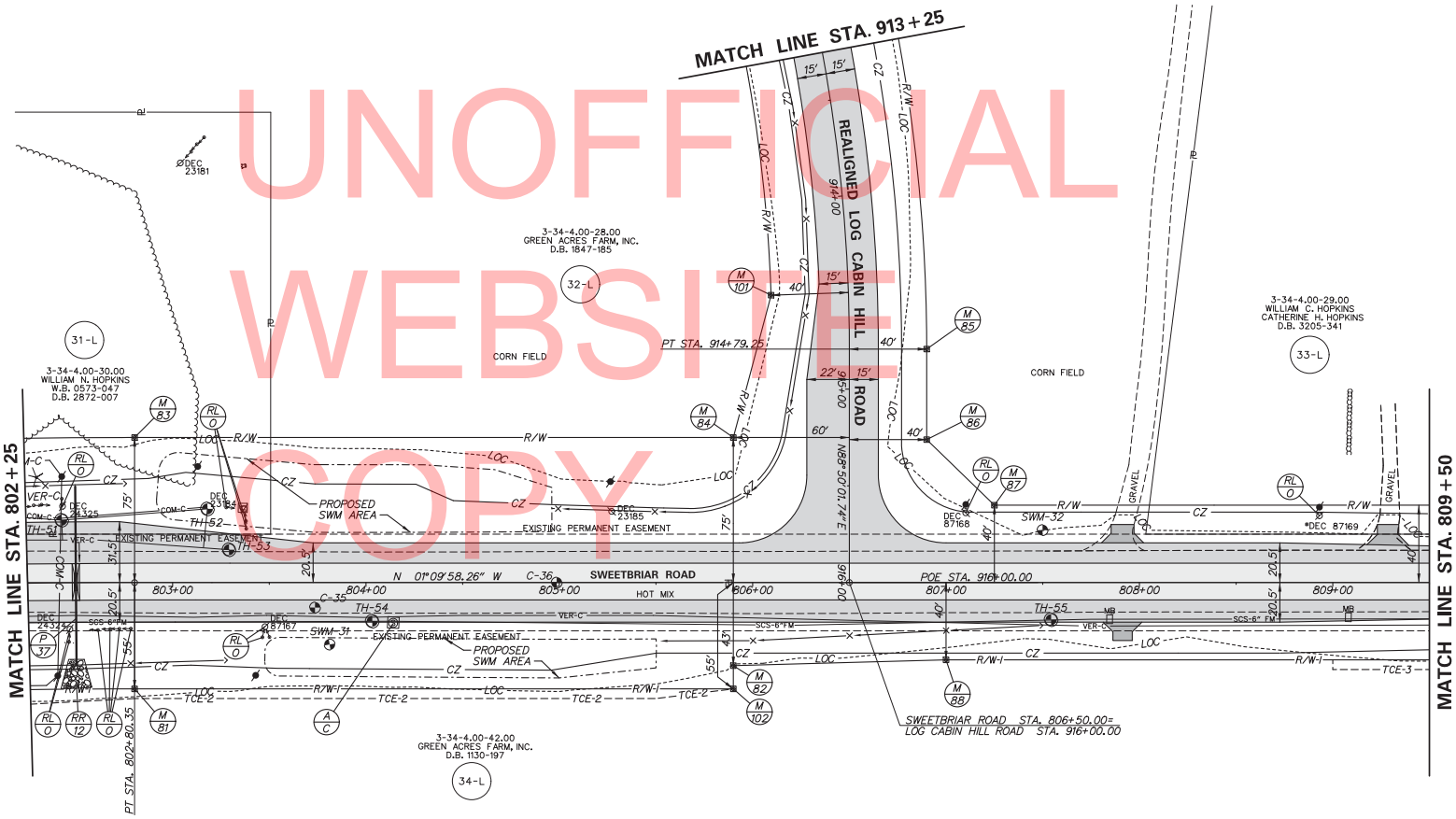
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
81	CONCRETE	802+80.35	55.00' RT	268598.8035	711559.6063
82	CAPPED REBAR	805+90.00	43.00' RT	268908.1473	711541.3066
83	CONCRETE	802+80.35	75.00' LT	268596.1577	711426.6333
84	CAPPED REBAR	915+25.00	60.00' RT	268905.7457	711423.3311
85	CONCRETE	914+79.25	40.00' LT	269004.7939	711375.5566
86	CAPPED REBAR	915+26.08	40.00' LT	269005.7470	711422.3789
87	CAPPED REBAR	807+25.00	40.00' LT	269041.4301	711455.5763
88	CAPPED REBAR	807+00.00	40.00' RT	269018.0634	711536.0685
101	CAPPED REBAR	914+50.00	40.00' RT	268923.7638	711349.3311
102	CAPPED REBAR	805+90.00	55.00' RT	268908.3915	711553.3042

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O.D. & MATERIAL
TH-51	VER	802+42.92	32.43' LT	20.90	2.17	(1) 2" CONDUIT, (1) ½" CABLE
TH-52	VER	803+17.99	38.09' LT	22.00	2.37	(1) 2" CONDUIT, (1) ½" CABLE
TH-53	VER	803+29.19	16.97' LT	21.26	1.70	¾" D.B. CABLE
TH-54	SCS	804+03.25	19.99' RT	21.17	5.87	6" PLASTIC
TH-55	SCS	807+54.33	19.23' RT	20.73	6.33	6" PLASTIC

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
37	24" RCP	V	92'	0.0038	17.85	17.50



UNOFFICIAL WEBSITE COPY

N:\31806-007\CADD\CP16US9-Dairy.dgn
4/22/2013 12:06:16 PM

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

HSIP SUSSEX COUNTY US 9 PROJECTS

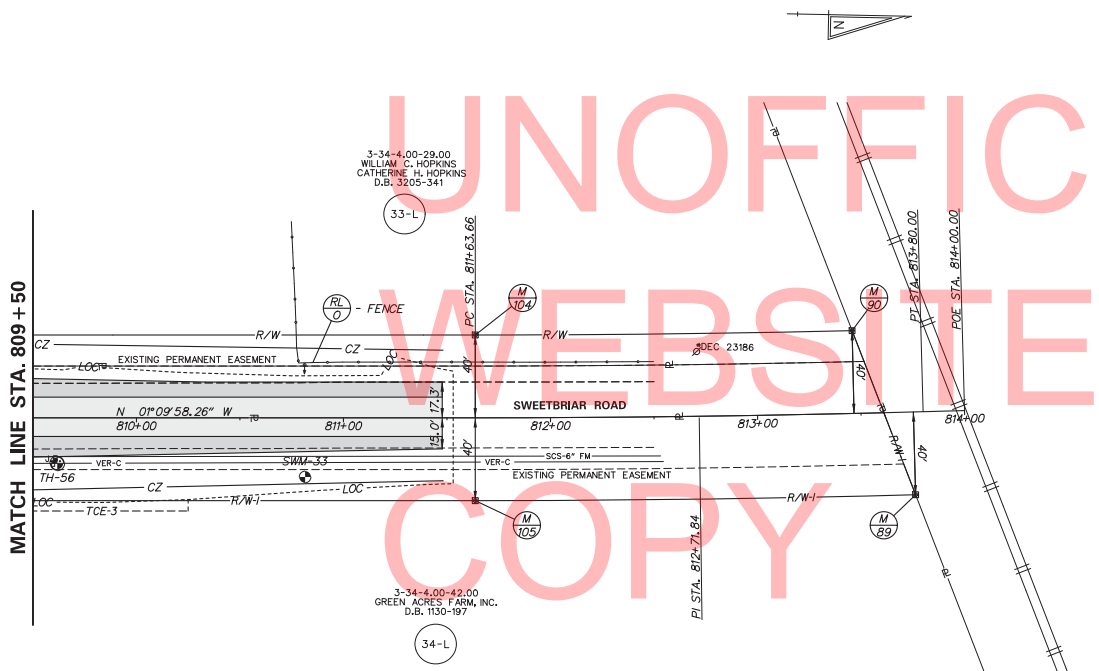
CONTRACT	BRIDGE NO.	N/A
T200800901	DESIGNED BY:	J.L.R.
COUNTY	CHECKED BY:	R.R.W.
SUSSEX		

CONSTRUCTION PLAN

SHEET NO.
33
TOTAL SHTS.
161

RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
89	CAPPED REBAR	813+75.31	40.00' RT	269694.2122	711519.4686
90	CAPPED REBAR	813+46.60	40.00' LT	269661.9209	711440.8477
104	CONCRETE	811+63.66	40.00' LT	269480.0015	711446.6485
105	CONCRETE	811+63.66	40.00' RT	269481.6297	711526.6319

UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O.D. & MATERIAL
TH-56	VER	809+61.76	22.00' RT	18.22	1.58	1½" D.B. CABLE



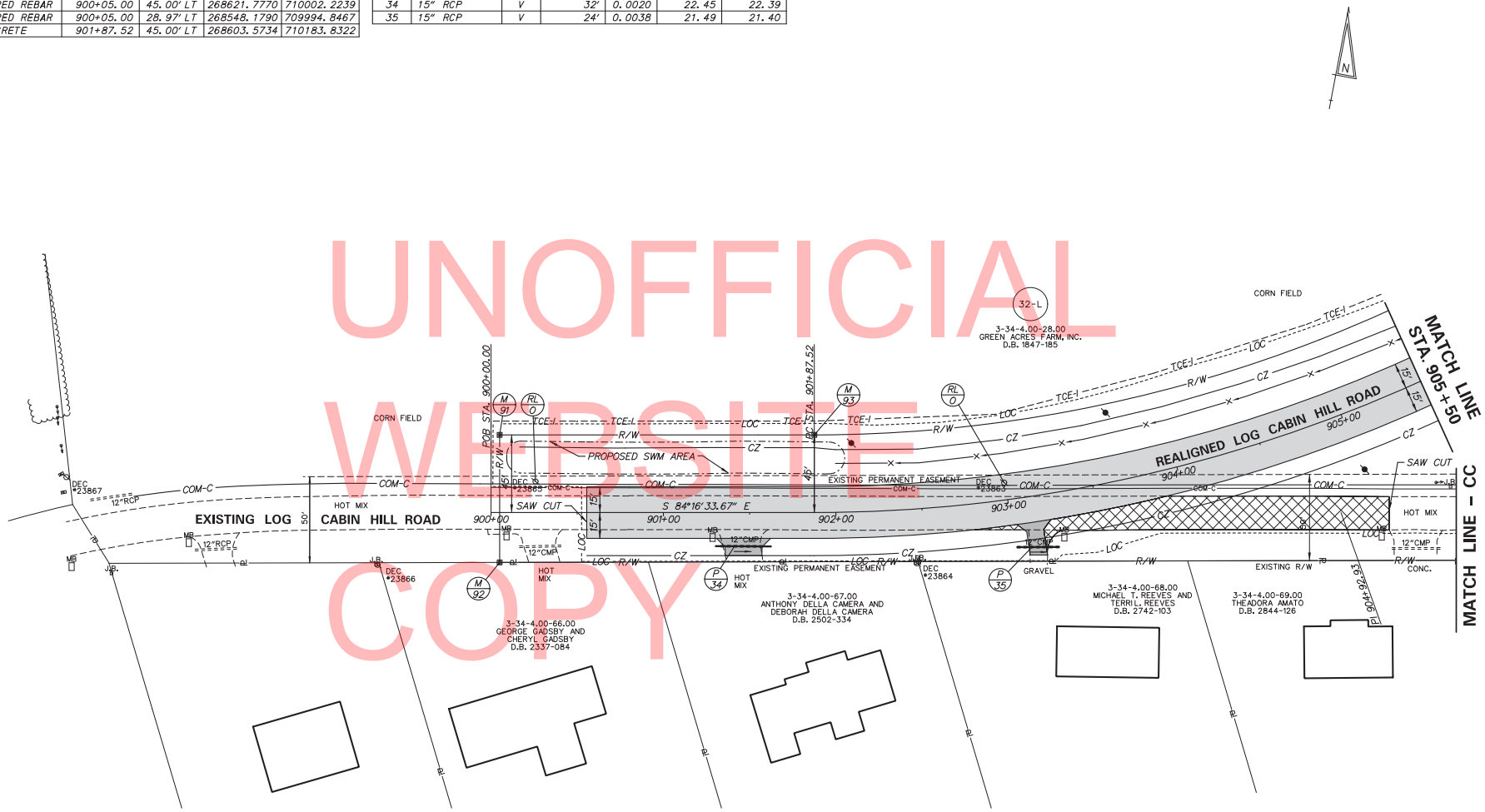
UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\CPT\059-Dairy.dgn
4/22/2013 12:06:18 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	CONSTRUCTION PLAN	SHEET NO. 34
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
91	CAPPED REBAR	900+05.00	45.00' LT	268621.7770	710002.2239
92	CAPPED REBAR	900+05.00	28.97' LT	268548.1790	709994.8467
93	CONCRETE	901+87.52	45.00' LT	268603.5734	710183.8322

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
34	15" RCP	V	32'	0.0020	22.45	22.39
35	15" RCP	V	24'	0.0038	21.49	21.40



UNOFFICIAL WEBSITE COPY

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

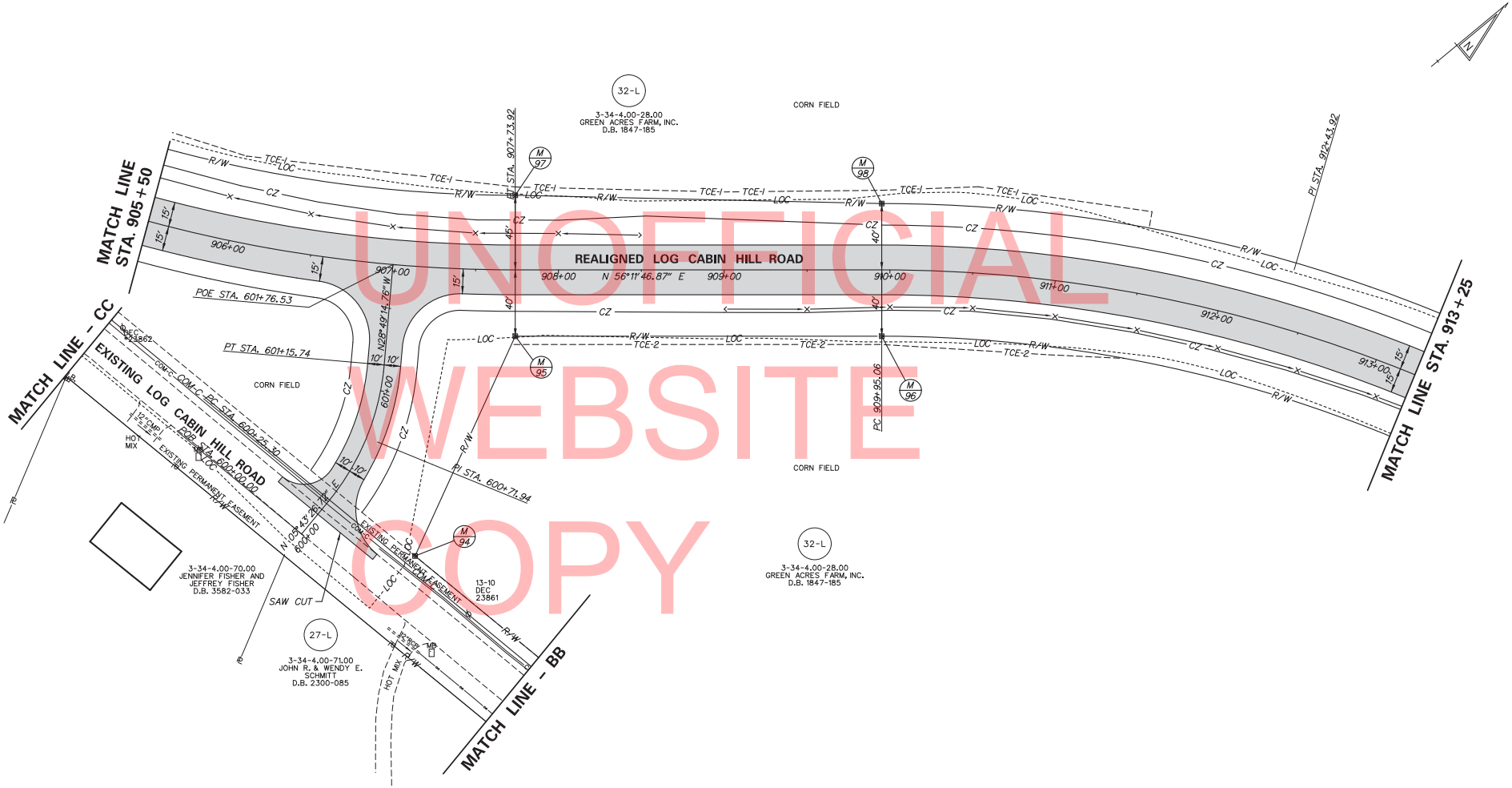
HSIP SUSSEX COUNTY US 9 PROJECTS

CONTRACT	BRIDGE NO.	N/A
T200800901	DESIGNED BY: J.L.R.	
COUNTY		
SUSSEX	CHECKED BY: R.R.W.	

CONSTRUCTION PLAN

SHEET NO. 35 / TOTAL SHTS. 161

N:\38806-007\CADD\CPIRU59-Dairy.dgn
4/22/2013 12:06:19 PM



UNOFFICIAL WEBSITE COPY

RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
94	CAPPED REBAR	600+31.02	61.41' RT	268521.2179	710782.7729
95	CONCRETE	907+73.92	40.00' RT	268665.0149	710759.2700
96	CONCRETE	909+95.06	40.00' RT	268788.0470	710943.0278
97	CONCRETE	907+73.92	45.00' LT	268735.6456	710711.9804
98	CONCRETE	909+95.07	45.00' LT	268854.5229	710898.5200

N:\31606-007\CADD\CP\RUS9-Dairy.dgn
4/22/2013 12:06:20 PM

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

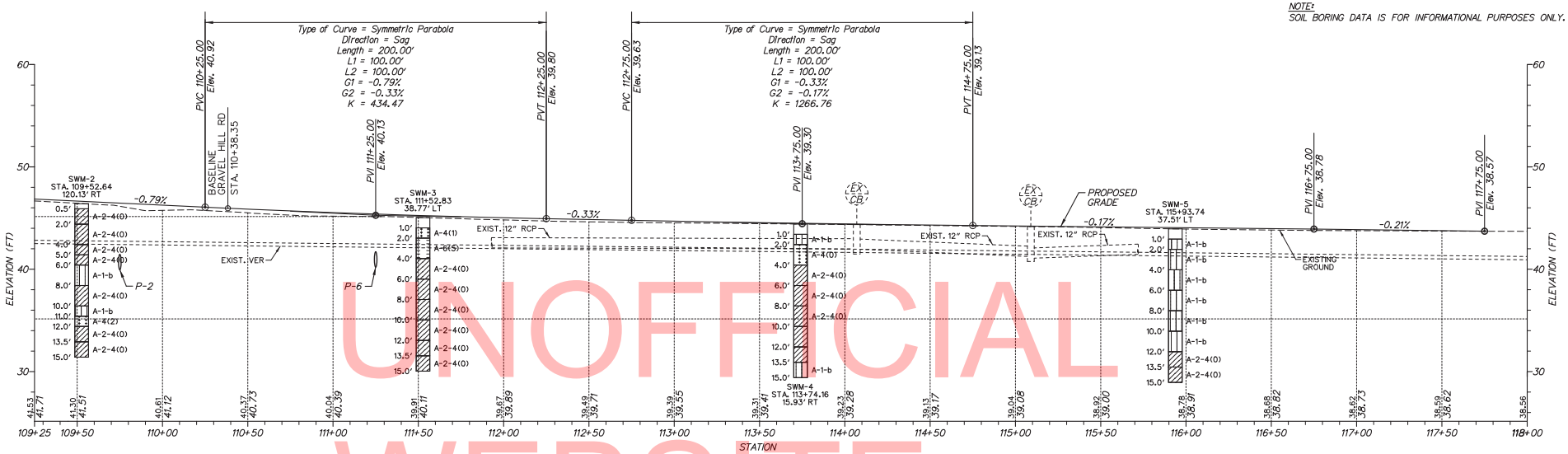
HSIP SUSSEX COUNTY US 9 PROJECTS

CONTRACT	BRIDGE NO.	N/A
T200800901	DESIGNED BY: J.L.R.	
COUNTY		
SUSSEX	CHECKED BY: R.R.W.	

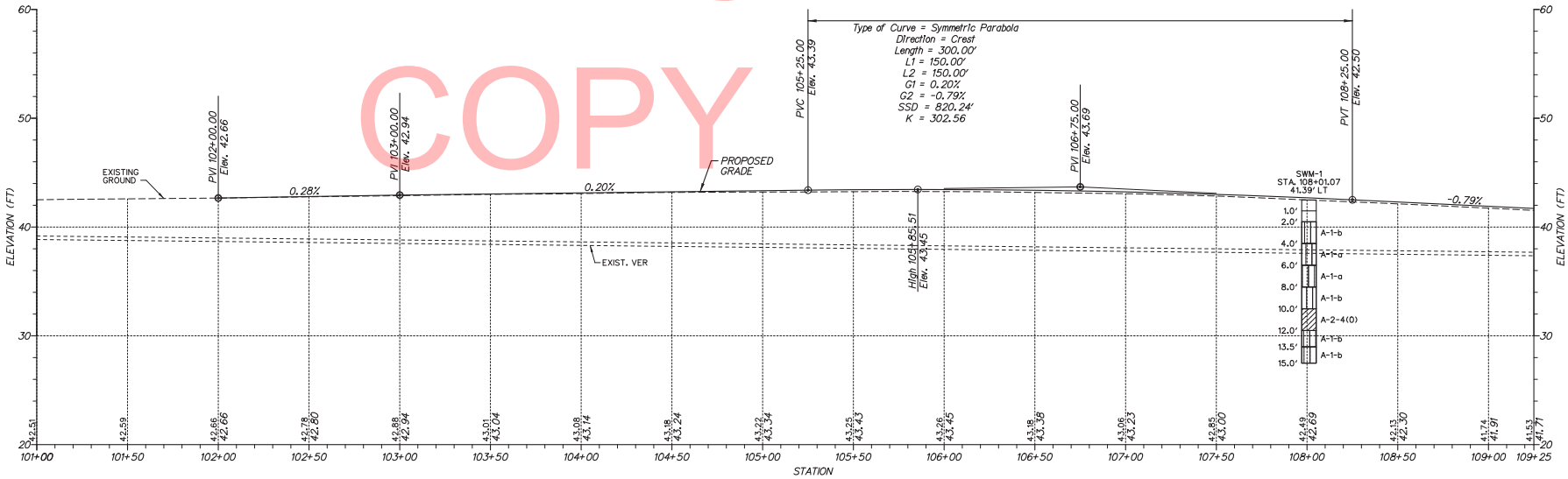
CONSTRUCTION PLAN

SHEET NO. 36
TOTAL SHTS. 161

NOTE:
SOIL BORING DATA IS FOR INFORMATIONAL PURPOSES ONLY.



US 9 (LEWES – GEORGETOWN HIGHWAY)



US 9 (LEWES – GEORGETOWN HIGHWAY)

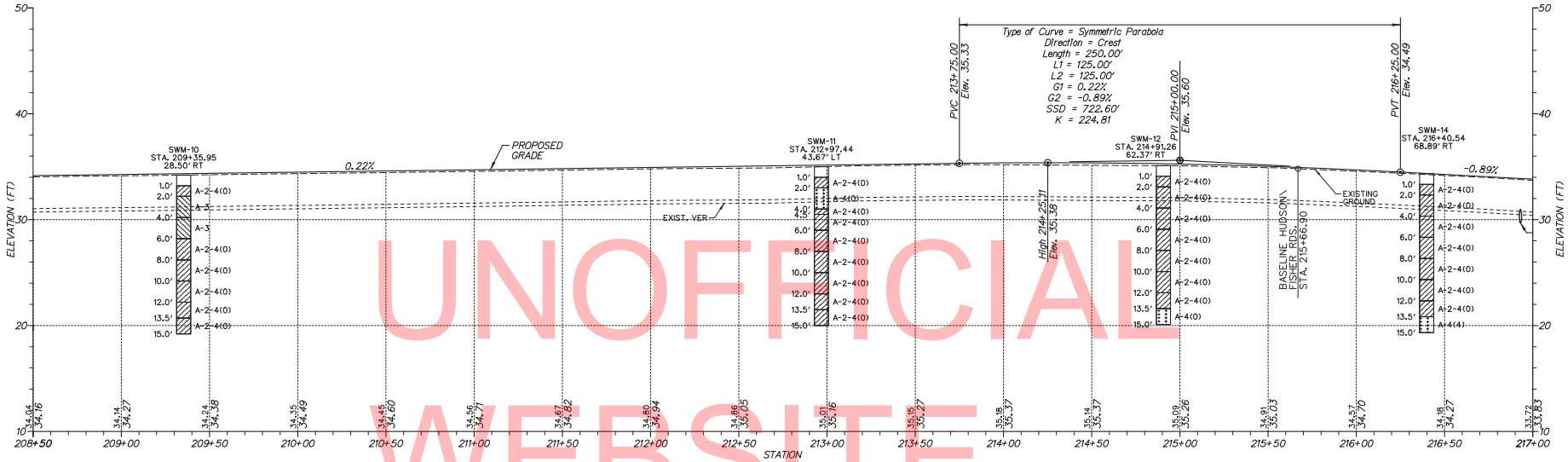
UNOFFICIAL WEBSITE COPY

VERTICAL SCALE FEET 0 5 10 15

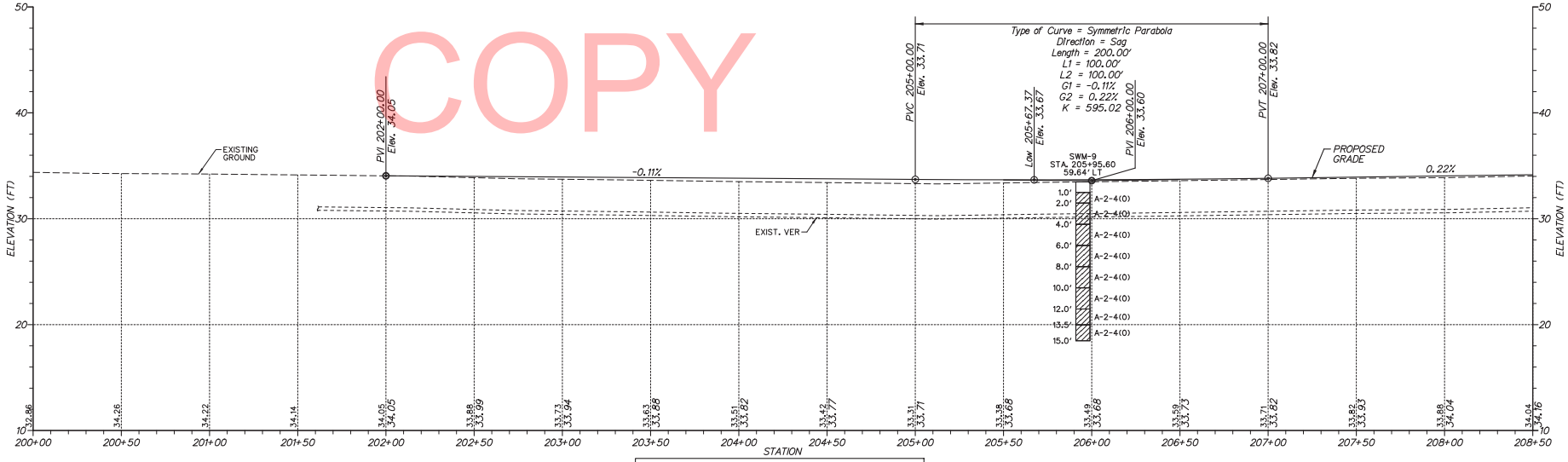
N:\31606-007\CADD\PF09J59.dgn
2/26/2013 2:08:47 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	PROFILES	SHEET NO. 37
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

NOTES:
1. SOIL BORING DATA IS FOR INFORMATIONAL PURPOSES ONLY.



US 9 (LEWES – GEORGETOWN HIGHWAY)



US 9 (LEWES – GEORGETOWN HIGHWAY)

UNOFFICIAL WEBSITE COPY

VERTICAL SCALE FEET 0 5 10 15

N:\31606-007\CADD\PF02us9.dgn
2/26/2013 2:09:58 PM

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

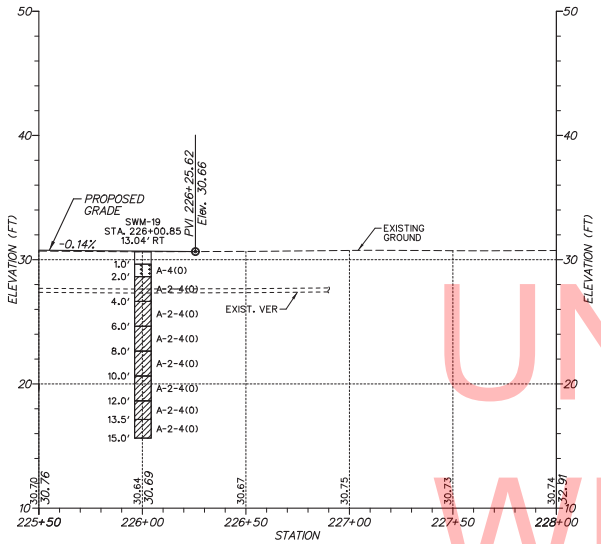
HSIP SUSSEX COUNTY US 9 PROJECTS

CONTRACT	BRIDGE NO.	N/A
T200800901	DESIGNED BY: J.L.R.	
COUNTY		
SUSSEX	CHECKED BY: R.R.W.	

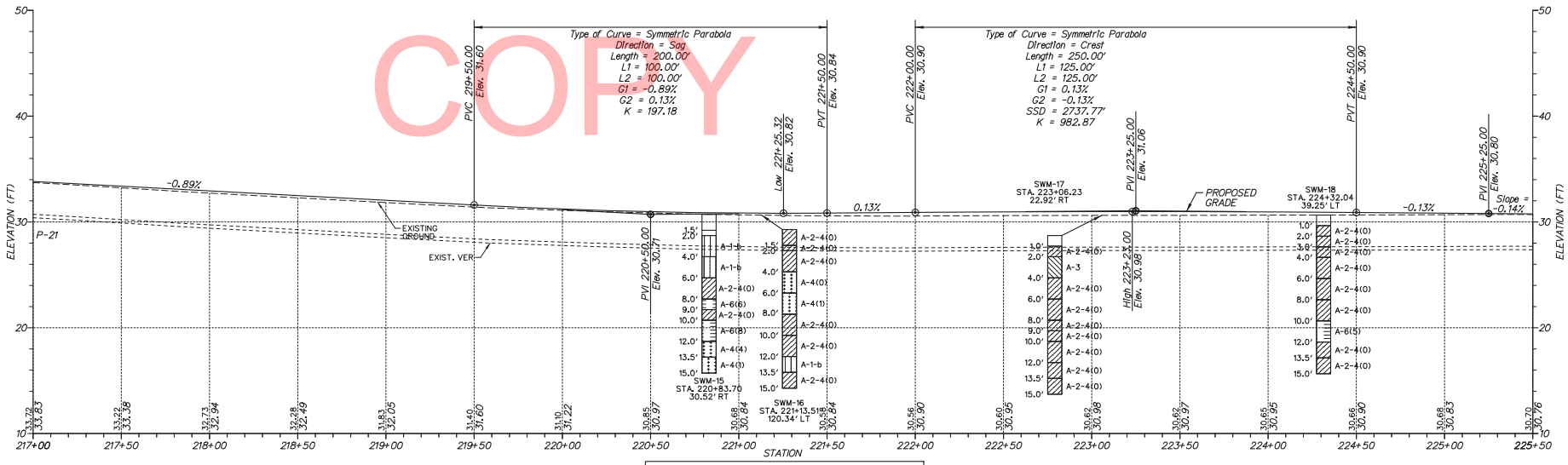
PROFILES

SHEET NO.
38
TOTAL SHTS.
161

NOTES:
1. SOIL BORING DATA IS FOR INFORMATIONAL PURPOSES ONLY.



US 9 (LEWES GEORGETOWN HIGHWAY)



US 9 (LEWES GEORGETOWN HIGHWAY)

UNOFFICIAL WEBSITE COPY

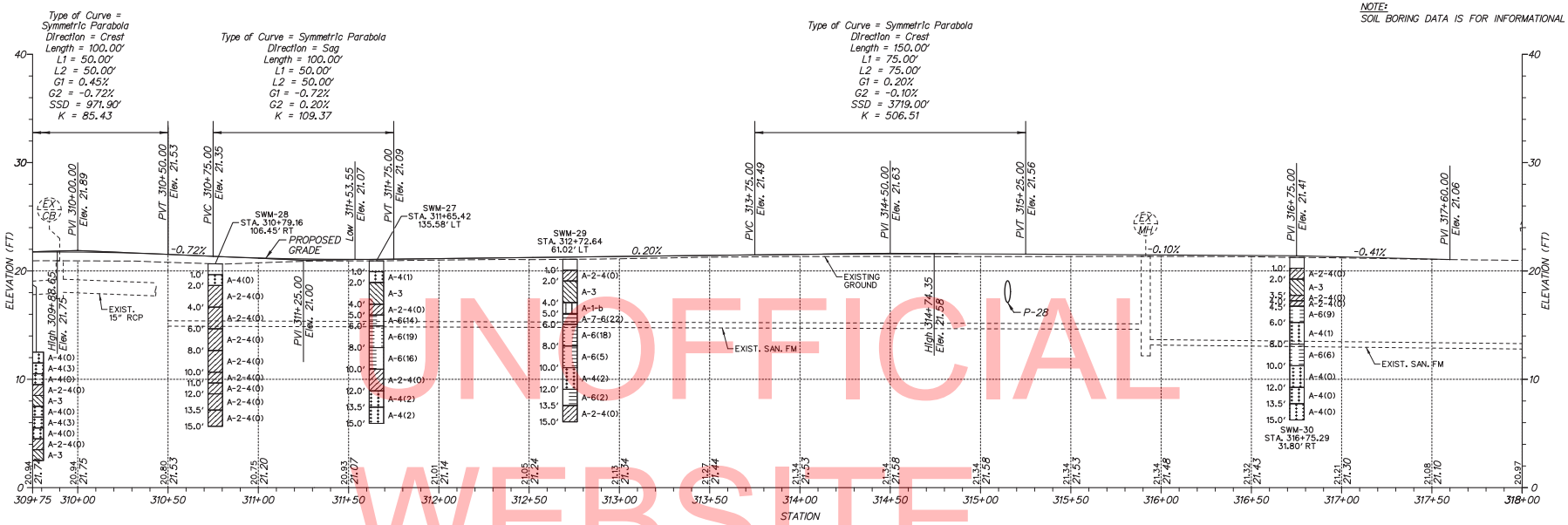
VERTICAL SCALE FEET 0 5 10 15

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	PROFILES
				COUNTY SUSSEX	DESIGNED BY: J.L.R.	
					CHECKED BY: R.R.W.	

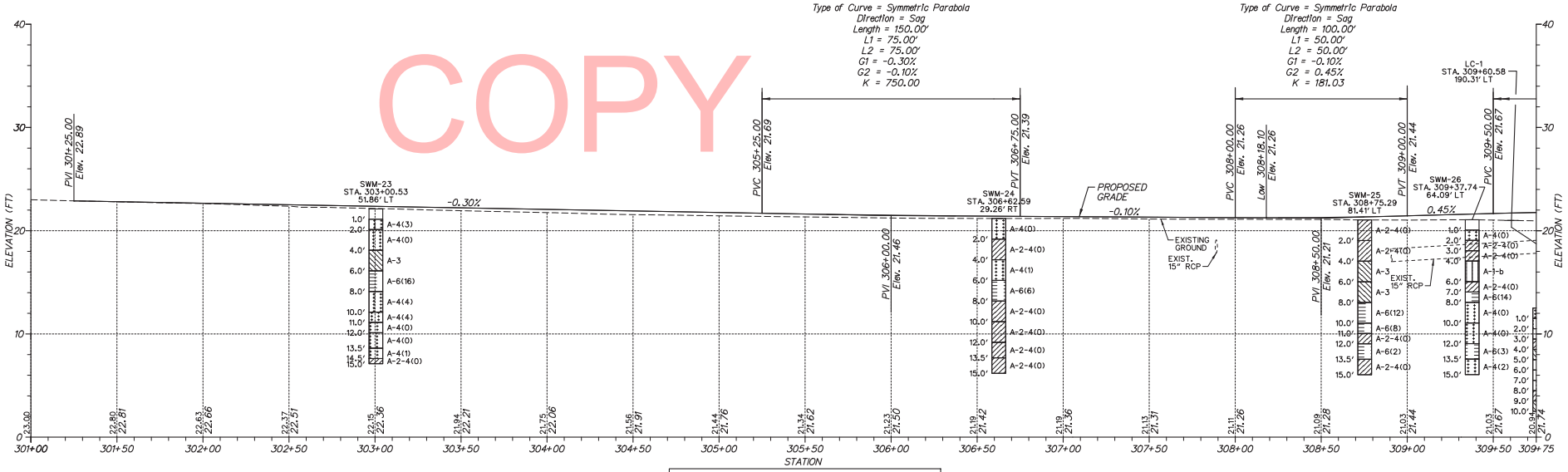
SHEET NO. 39
TOTAL SHTS. 161

N:\31606-007\CADD\PF03us9.dgn
2/26/2013 2:49:00 PM

NOTE:
SOIL BORING DATA IS FOR INFORMATIONAL PURPOSES ONLY.



US 9 (LEWES GEORGETOWN HIGHWAY)



US 9 (LEWES GEORGETOWN HIGHWAY)

UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\PF04us9.dgn
2/26/2013 2:46:08 PM

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

HSIP SUSSEX COUNTY US 9 PROJECTS

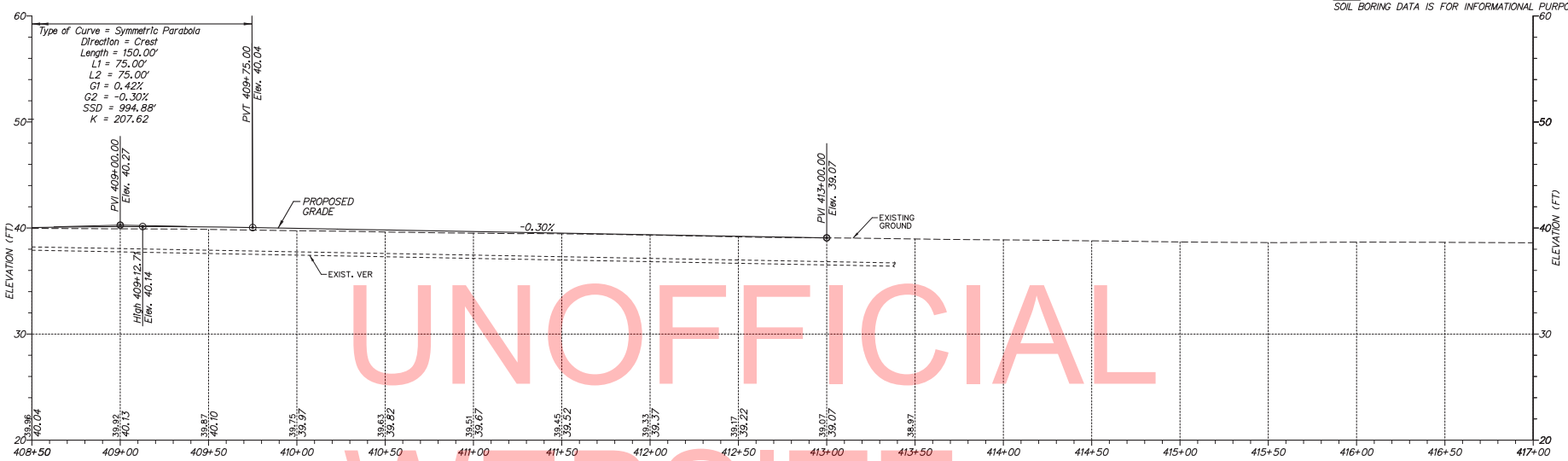
CONTRACT	BRIDGE NO.	N/A
T200800901	DESIGNED BY: J.L.R.	
COUNTY		
SUSSEX	CHECKED BY: R.R.W.	

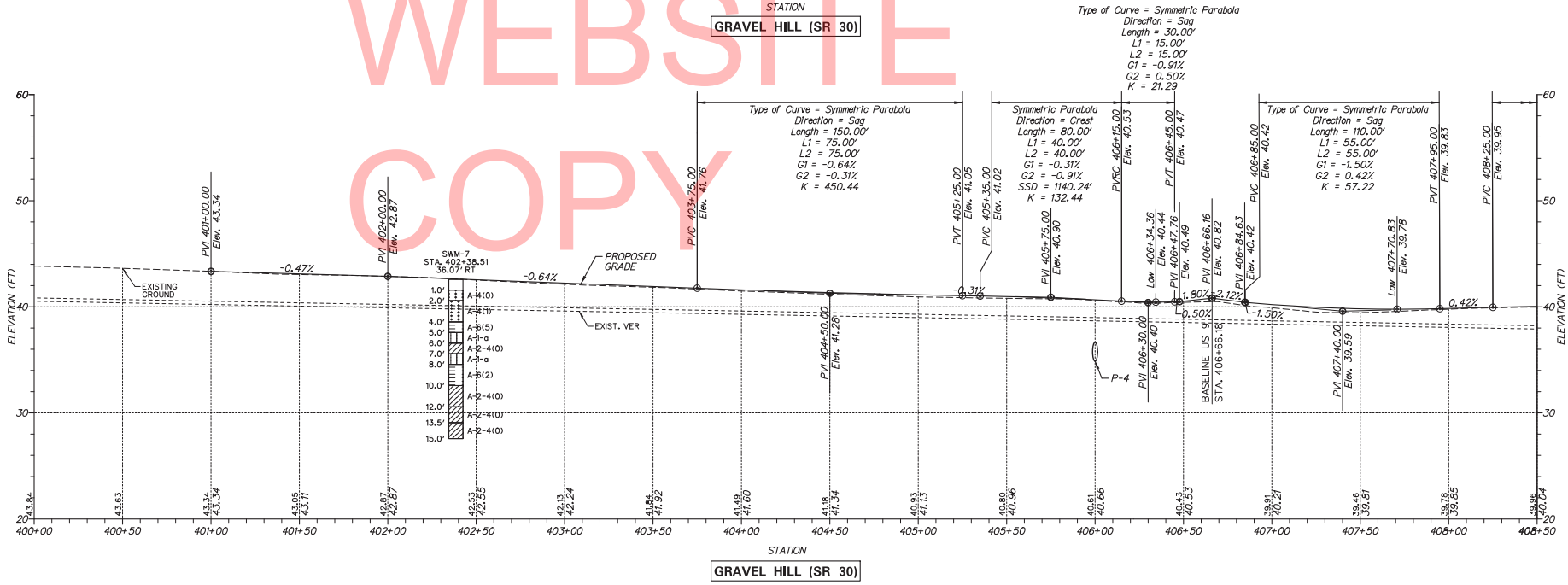
PROFILES

SHEET NO.
40
TOTAL SHTS.
161

VERTICAL SCALE FEET 0 5 10 15

NOTE:
SOIL BORING DATA IS FOR INFORMATIONAL PURPOSES ONLY.





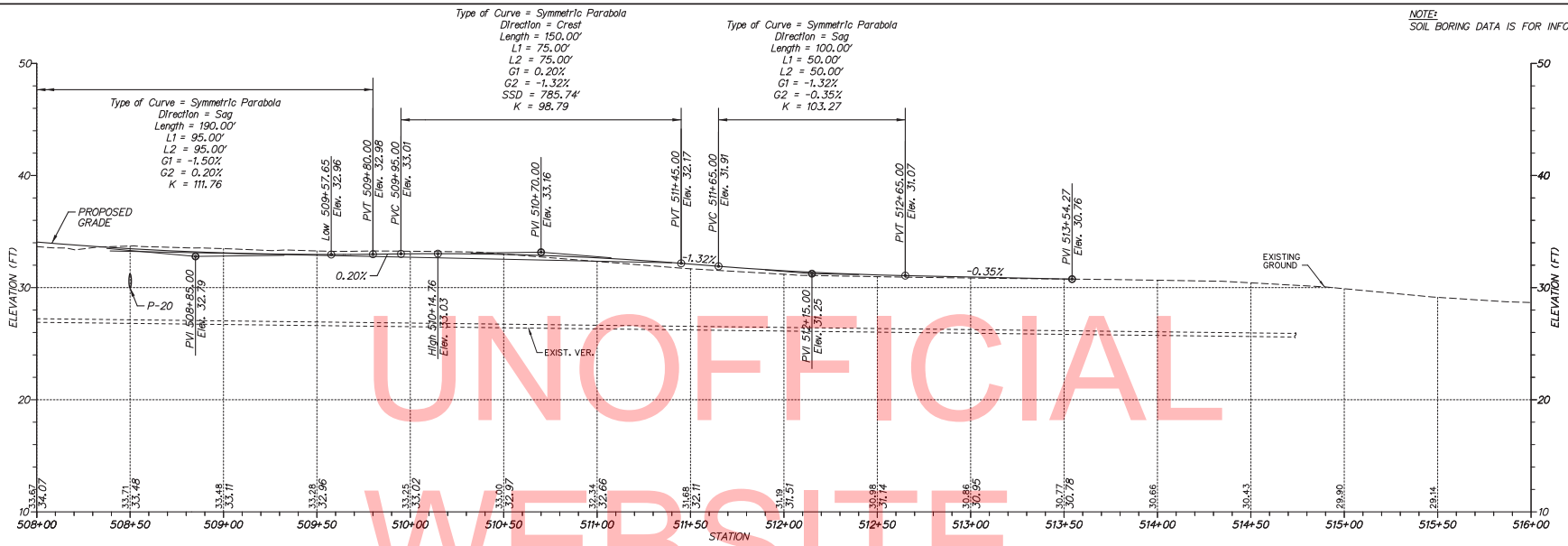
UNOFFICIAL WEBSITE COPY

VERTICAL SCALE FEET 0 5 10 15

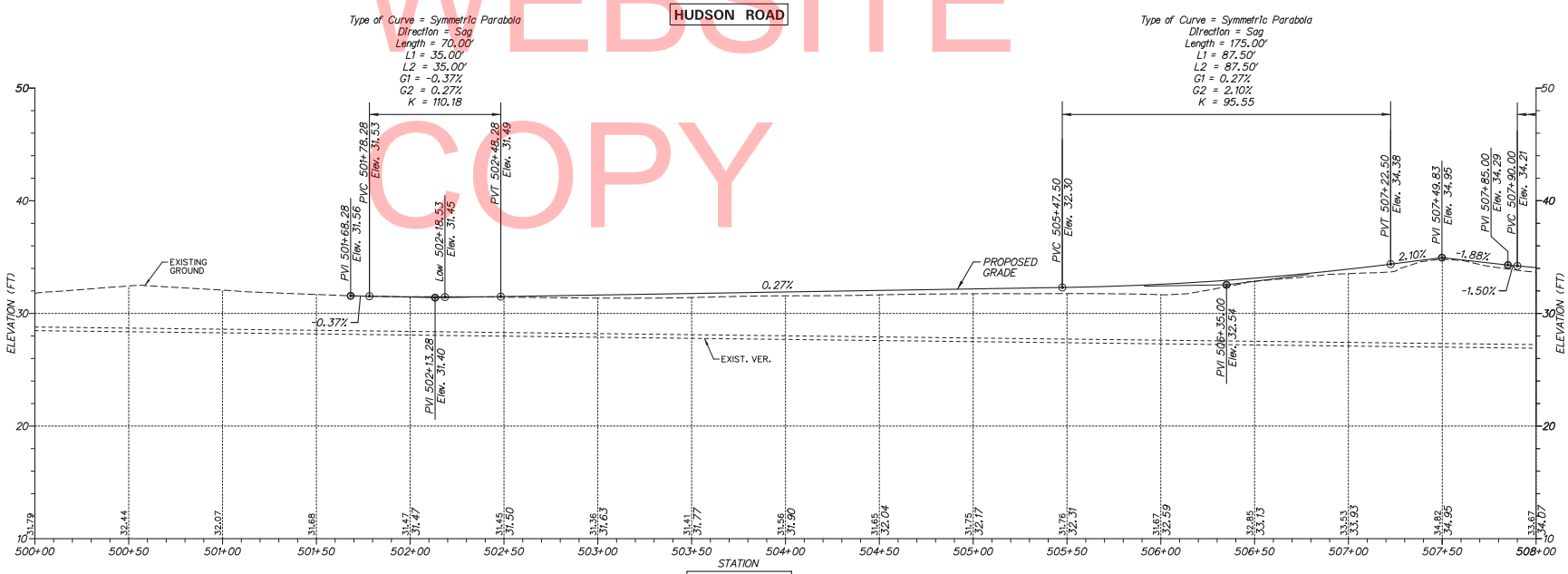
N:\31696-007\CADD\PF05sub.dgn
2/26/2013 2:16:16 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	PROFILES	SHEET NO. 41
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

NOTE:
SOIL BORING DATA IS FOR INFORMATIONAL PURPOSES ONLY.



HUDSON ROAD



FISHER ROAD

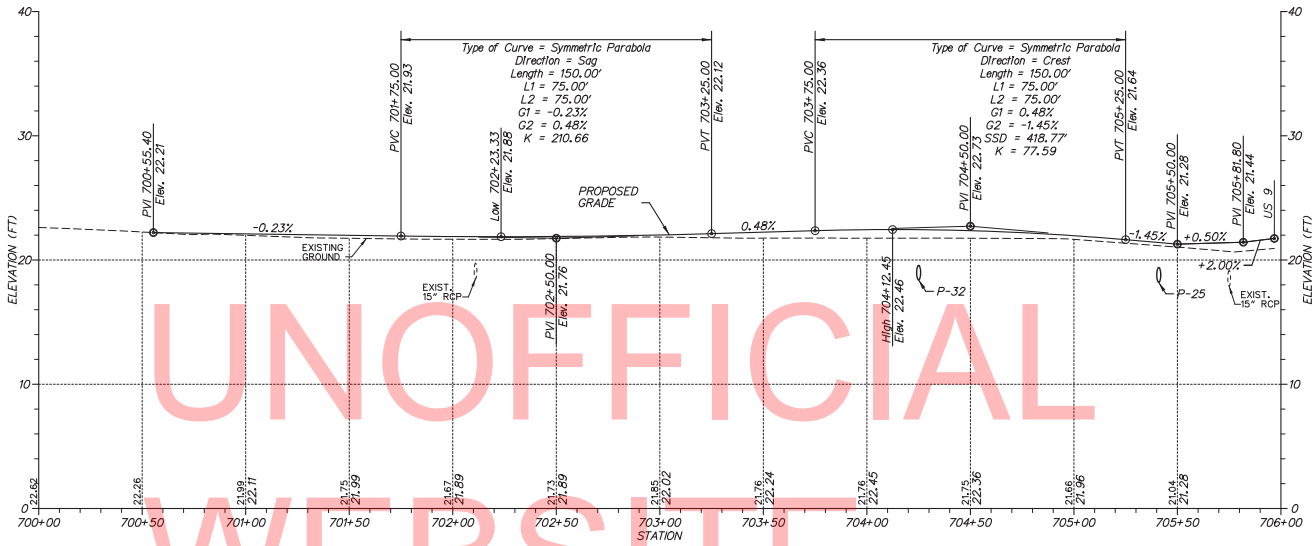
UNOFFICIAL WEBSITE COPY

VERTICAL SCALE FEET 0 5 10 15

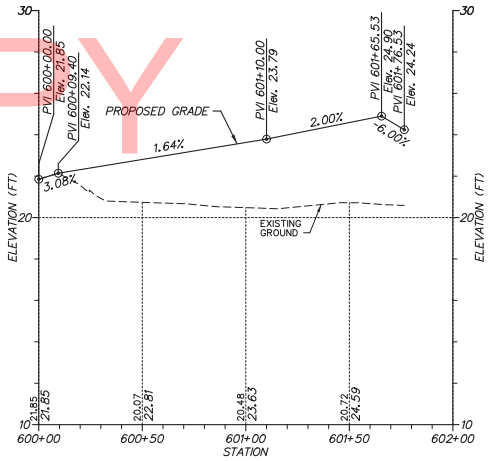
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	PROFILES	SHEET NO. 42
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

N:\31606-007\CADD\PF06ush.dgn
2/26/2013 2:16:14 PM

NOTE:
SOIL BORING DATA IS FOR INFORMATIONAL PURPOSES ONLY.



DAIRY FARM ROAD



ACCESS ROAD

UNOFFICIAL WEBSITE COPY

VERTICAL SCALE FEET 0 5 10 15

N:\31606-007\CADD\PF07sub.dgn
2/26/2013 2:16:18 PM

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

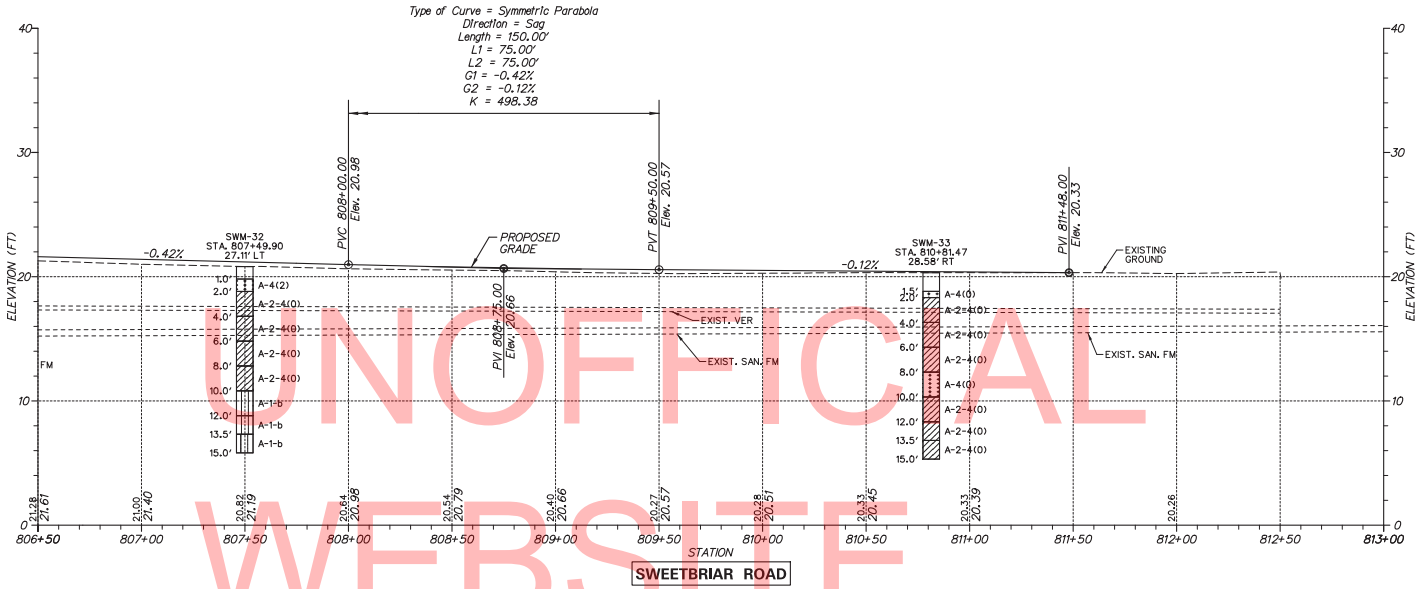
HSIP SUSSEX COUNTY
US 9 PROJECTS

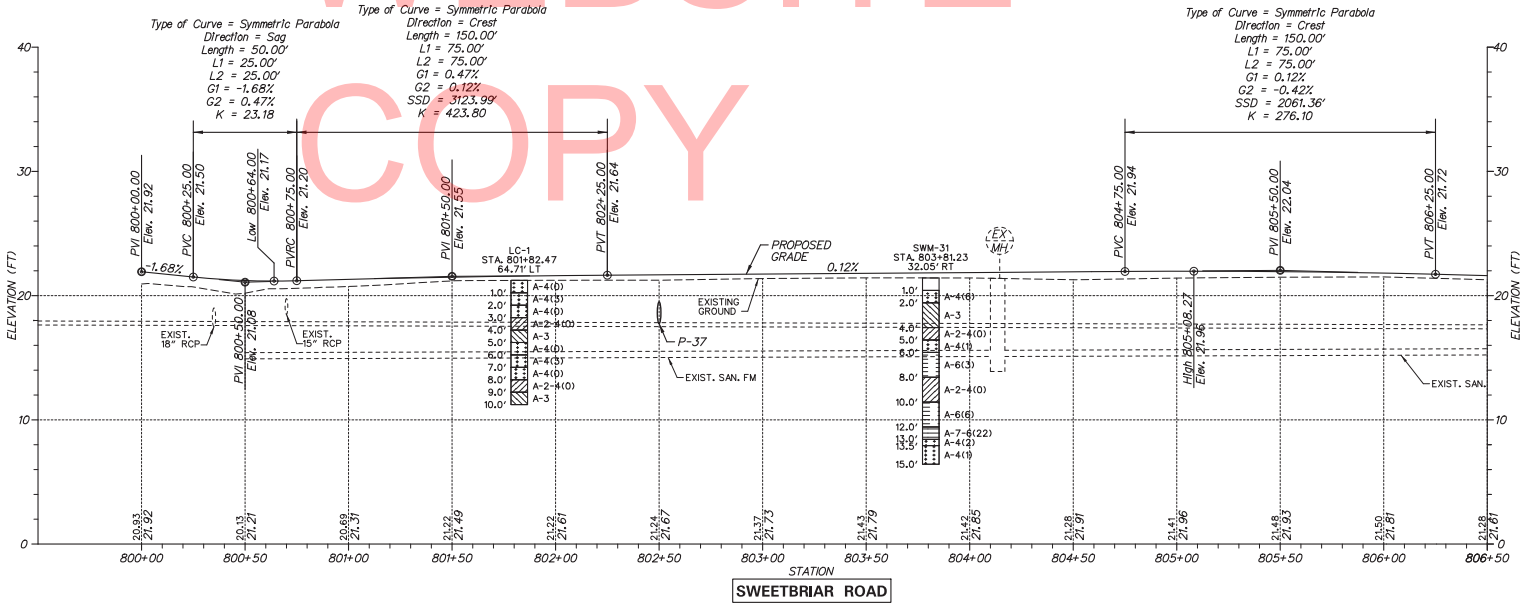
CONTRACT	BRIDGE NO.	N/A
T200800901	DESIGNED BY:	J.L.R.
COUNTY	CHECKED BY:	R.R.W.
SUSSEX		

PROFILES

SHEET NO. 43
TOTAL SHTS. 161

NOTE:
SOIL BORING DATA IS FOR INFORMATIONAL PURPOSES ONLY.





UNOFFICIAL WEBSITE COPY

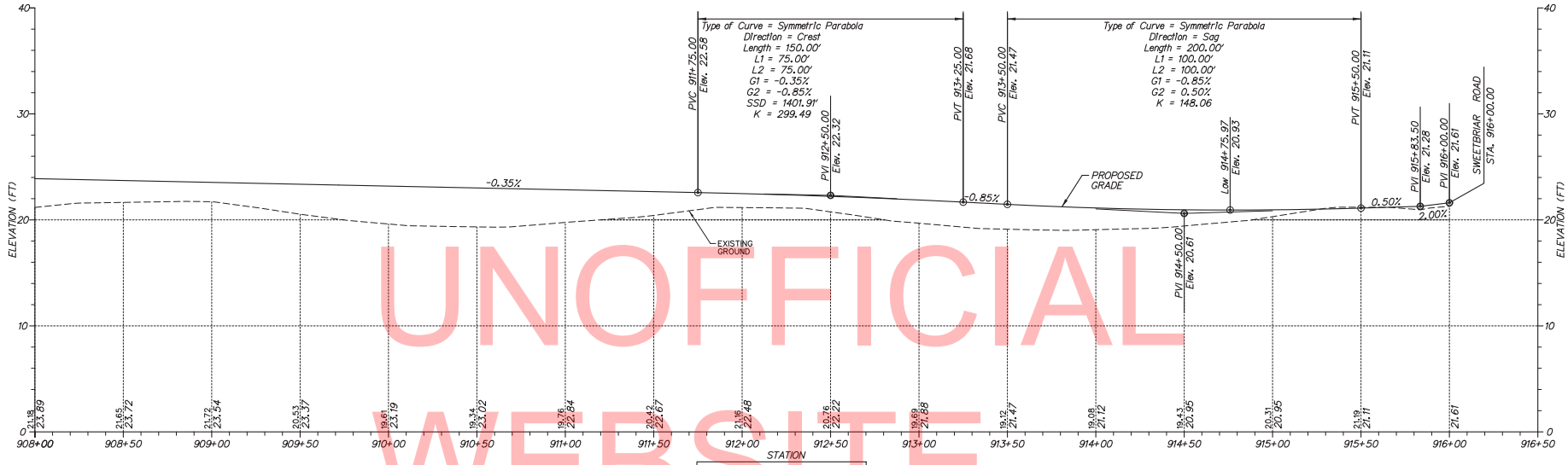
VERTICAL SCALE FEET 0 5 10 15

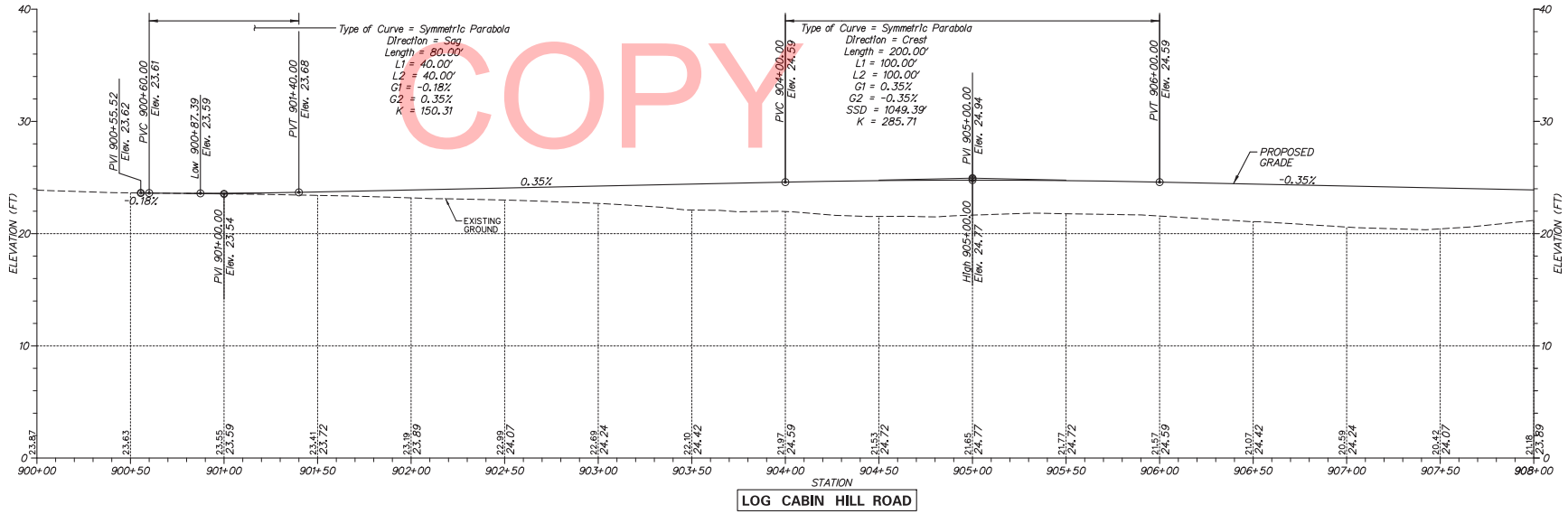
N:\31606-007\CADD\VPF08aub.dgn
2/26/2013 2:06:24 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	PROFILES
				COUNTY SUSSEX	DESIGNED BY: J.L.R.	
					CHECKED BY: R.R.W.	

SHEET NO. 44
TOTAL SHTS. 161

NOTE:
SOIL BORING DATA IS FOR INFORMATIONAL PURPOSES ONLY.





UNOFFICIAL WEBSITE COPY

VERTICAL SCALE FEET 0 5 10 15

N:\31606-007\CADD\PF09sub.dgn
2/26/2013 2:46:28 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	PROFILES
				COUNTY SUSSEX	DESIGNED BY: J.L.R.	
					CHECKED BY: R.R.W.	

SHEET NO. 45
TOTAL SHTS. 161

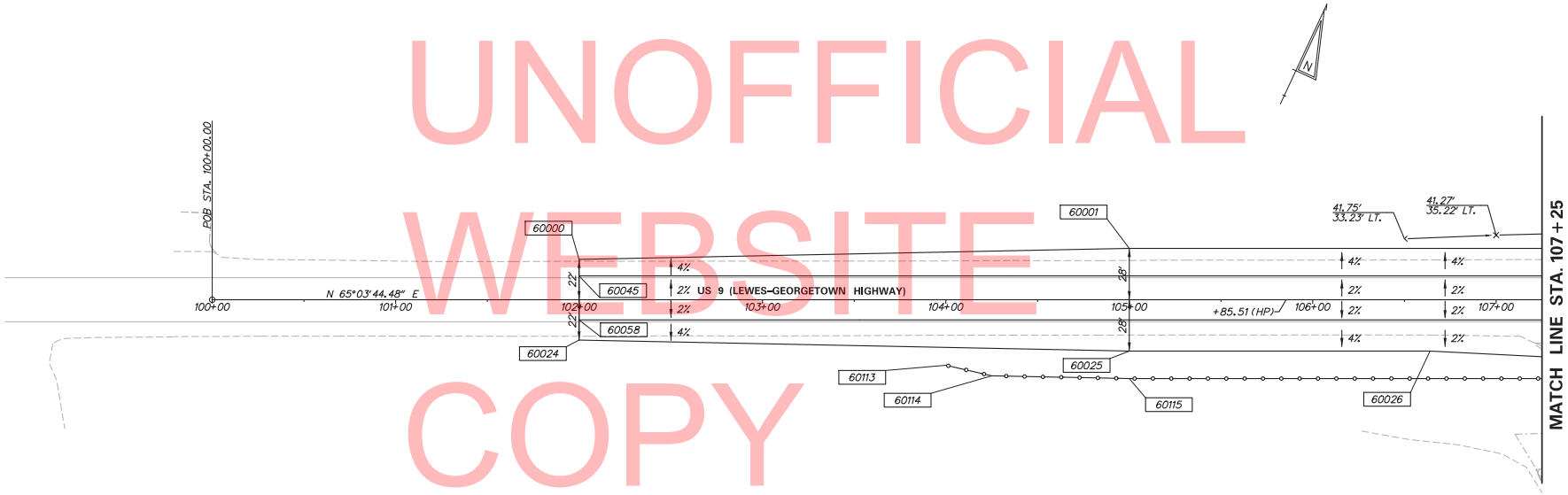
COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
60000	102+00.00	-22.00	259779.4170	683938.8165
60001	105+00.00	-28.00	259911.3471	684208.3168
60024	102+00.00	22.00	259739.5192	683957.3682
60025	105+00.00	28.00	259860.5673	684231.9288
60026	106+63.95	28.00	259929.6952	684380.5938
60045	102+00.00	-13.00	259771.2561	683942.6111
60058	102+00.00	11.00	259749.4937	683952.7303
60113	104+00.00	35.75	259811.3878	684144.5143
60114	104+25.00	41.50	259816.7044	684169.6127
60115	105+00.00	43.00	259846.9666	684238.2527

NOTES:

1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION 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 INTERSECTIONS ARE GIVEN AT 10 FOOT INTERVALS.
5. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND PAID FOR UNDER ITEM 763501 - CONSTRUCTION ENGINEERING.
6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR EXISTING CURBS SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.

UNOFFICIAL WEBSITE COPY



DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901 / COUNTY SUSSEX	BRIDGE NO. N/A / DESIGNED BY: J.L.R. / CHECKED BY: R.R.W.	GRADES & GEOMETRICS	SHEET NO. 46 / TOTAL SHTS. 161

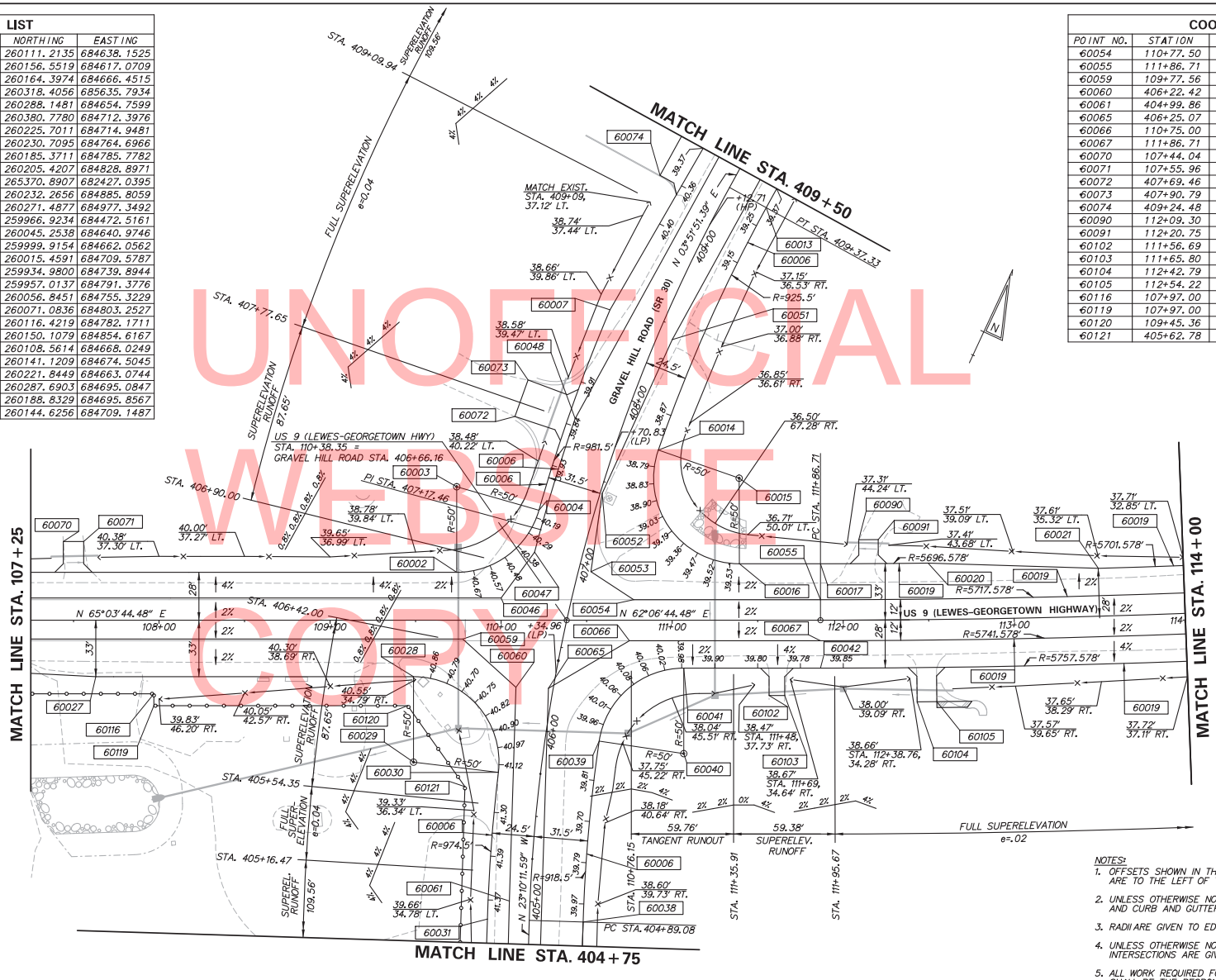
N:\31606-007\CADD\GDOT\US9-SR30.dgn
2/26/2013 2:46:38 PM

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
60002	109+74.03	-28.00	260111.2135	684638.1525
60003	109+74.03	-78.00	260156.5519	684617.0709
60004	407+23.57	-31.50	260164.3974	684666.4515
60006	409+37.33	950.00	260318.4056	685635.7934
60007	408+43.96	-31.50	260288.1481	684654.7599
60013	409+37.33	24.50	260380.7780	684712.3976
60014	407+77.94	24.50	260225.7011	684714.9481
60015	111+39.16	-83.00	260230.7095	684764.6966
60016	111+39.16	-33.00	260185.3711	684785.7782
60017	111+86.71	-33.00	260205.4207	684828.8971
60019	114+81.71	-5729.58	265370.8907	682427.0395
60020	112+50.00	-33.00	260232.2656	684885.8059
60021	113+50.00	-28.00	260271.4877	684977.3492
60027	107+63.00	33.00	259966.9234	684472.5161
60028	109+48.78	33.00	260045.2538	684640.9746
60029	109+48.78	83.00	259999.9154	684662.0562
60030	405+72.95	-24.50	260015.4591	684709.5787
60031	404+89.08	-24.50	259934.9800	684739.8944
60038	404+89.08	31.50	259957.0137	684791.3776
60039	405+98.93	31.50	260056.8451	684755.3229
60040	111+06.82	78.00	260071.0836	684803.2527
60041	111+06.82	28.00	260116.4219	684782.1711
60042	111+86.71	28.00	260150.1079	684854.6167
60046	110+00.00	-13.00	260108.5614	684668.0249
60047	407+00.00	-27.50	260141.1209	684674.5045
60048	407+79.26	-27.50	260221.8449	684663.0744
60051	408+42.25	8.79	260287.6903	684695.0847
60052	407+43.12	1.17	260188.8329	684695.8567
60053	406+97.14	7.20	260144.6256	684709.1487

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
60054	110+77.50	-12.00	260140.3292	684738.7169
60055	111+86.71	-12.00	260186.3786	684837.7514
60059	109+77.56	11.00	260077.3377	684657.7964
60060	406+22.42	-21.55	260064.8509	684697.9091
60061	404+99.86	-12.06	259949.9331	684747.0915
60065	406+25.07	-2.74	260072.3266	684715.3766
60066	110+75.00	12.00	260117.5146	684746.5732
60067	111+86.71	12.00	260164.6162	684847.8706
60070	107+44.04	-46.00	260030.5619	684422.0107
60071	107+55.96	-46.00	260035.5879	684432.8196
60072	407+69.46	-61.19	260208.1426	684630.6378
60073	407+90.79	-61.00	260230.7492	684628.5961
60074	409+24.48	-39.09	260371.7161	684648.1408
60090	112+09.30	-47.00	260227.6014	684843.2902
60091	112+20.75	-47.00	260232.4395	684853.5620
60102	111+56.69	44.00	260122.9400	684834.1369
60103	111+65.80	44.00	260126.7838	684842.4034
60104	112+42.79	48.00	260156.0648	684914.2061
60105	112+54.22	48.00	260161.0367	684924.6040
60116	107+97.00	43.00	259972.1912	684507.5625
60119	107+97.00	50.00	259965.8438	684510.5139
60120	109+45.36	50.00	260028.3979	684645.0435
60121	405+62.78	-43.00	259999.6260	684695.3674



UNOFFICIAL WEBSITE COPY

NOTES:

1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION 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 INTERSECTIONS ARE GIVEN AT 10 FOOT INTERVALS.
5. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND PAID FOR UNDER ITEM 763501 - CONSTRUCTION ENGINEERING.
6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR EXISTING CURBS SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.

N:\31606-007\CADD\G0021059-SR30.dgn
2/26/2013 2:06:47 PM

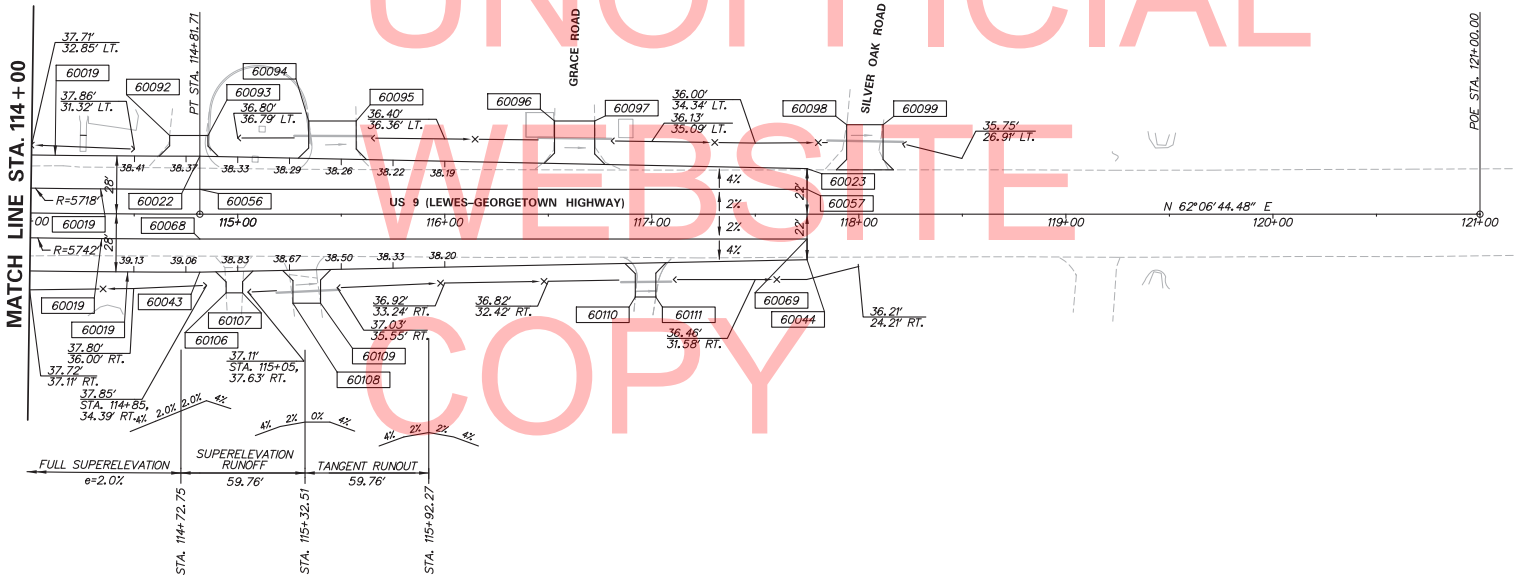
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901 / COUNTY SUSSEX	BRIDGE NO. N/A / DESIGNED BY: J.L.R. / CHECKED BY: R.R.W.
GRADES & GEOMETRICS	SHEET NO. 47 / TOTAL SHTS. 161				

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
60019	114+81.71	-5729.58	265370.8907	682427.0395
60022	114+81.71	-28.00	260331.4568	685093.8911
60023	117+75.00	-22.00	260463.3357	685355.9245
60043	114+81.71	28.00	260281.9603	685120.0845
60044	117+75.00	22.00	260424.4455	685376.5050
60056	114+81.71	-12.00	260317.3150	685101.3750
60057	117+75.00	-12.00	260454.4970	685360.6018
60068	111+86.71	12.00	260164.6162	684847.8706
60069	117+75.00	12.00	260433.2842	685371.8276
60092	114+67.04	-37.98	260333.4778	685076.3306
60093	114+85.61	-38.00	260342.1195	685092.6604
60094	115+34.28	-45.00	260371.0692	685132.3998
60095	115+57.21	-45.00	260381.7957	685152.6691
60096	116+53.02	-45.00	260426.6090	685237.3511
60097	116+72.42	-45.00	260435.6820	685254.4958
60098	117+94.10	-43.21	260491.0127	685362.8856
60099	118+11.69	-43.21	260499.2426	685378.4329
60106	114+94.42	38.00	260279.0641	685135.9911
60107	115+02.33	38.00	260282.7638	685142.9823
60108	115+26.67	43.00	260289.7302	685166.8361
60109	115+40.01	43.00	260295.9691	685178.6255
60110	116+92.02	40.00	260369.7216	685311.5786
60111	117+01.95	40.00	260374.3699	685320.3622

NOTES:

1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION 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 INTERSECTIONS ARE GIVEN AT 10 FOOT INTERVALS.
5. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND PAID FOR UNDER ITEM 763501 - CONSTRUCTION ENGINEERING.
6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR EXISTING CURBS SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.



UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\G003US9-SR30.dgn
2/26/2013 2:19:01 PM

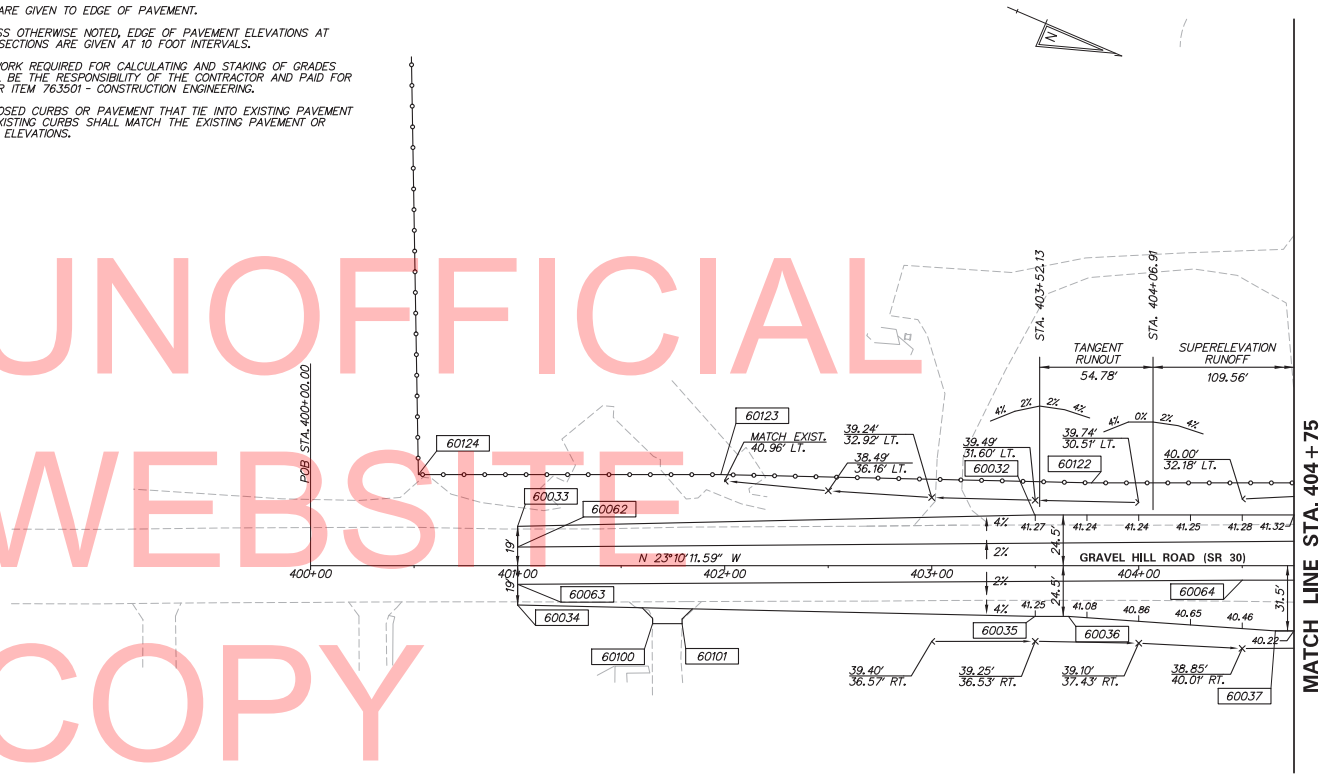
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	GRADES & GEOMETRICS	SHEET NO. 48
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
60032	403+49.79	-24.50	259806.9201	684794.7013
60033	401+00.00	-19.00	259579.4420	684898.0396
60034	401+00.00	19.00	259594.3934	684932.9746
60035	403+49.79	24.50	259826.2022	684839.7479
60036	403+66.06	24.50	259841.1577	684833.3473
60037	404+66.00	31.50	259935.7910	684800.4604
60062	401+00.00	-9.00	259583.3754	684907.2301
60063	401+00.00	9.00	259590.4588	684923.7812
60064	404+50.00	7.00	259911.4417	684784.2319
60100	401+65.18	28.00	259657.8563	684915.6035
60101	401+79.42	28.00	259670.9503	684909.9995
60122	403+77.18	-40.00	259826.0029	684769.6744
60123	401+98.13	-44.00	259659.8235	684836.4447
60124	400+52.07	-44.00	259525.5403	684893.9150

NOTES:

1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION 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 INTERSECTIONS ARE GIVEN AT 10 FOOT INTERVALS.
5. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND PAID FOR UNDER ITEM 763501 - CONSTRUCTION ENGINEERING.
6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR EXISTING CURBS SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.



UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\G004US9-SR30.dgn
3/29/2013 4:21:42 PM

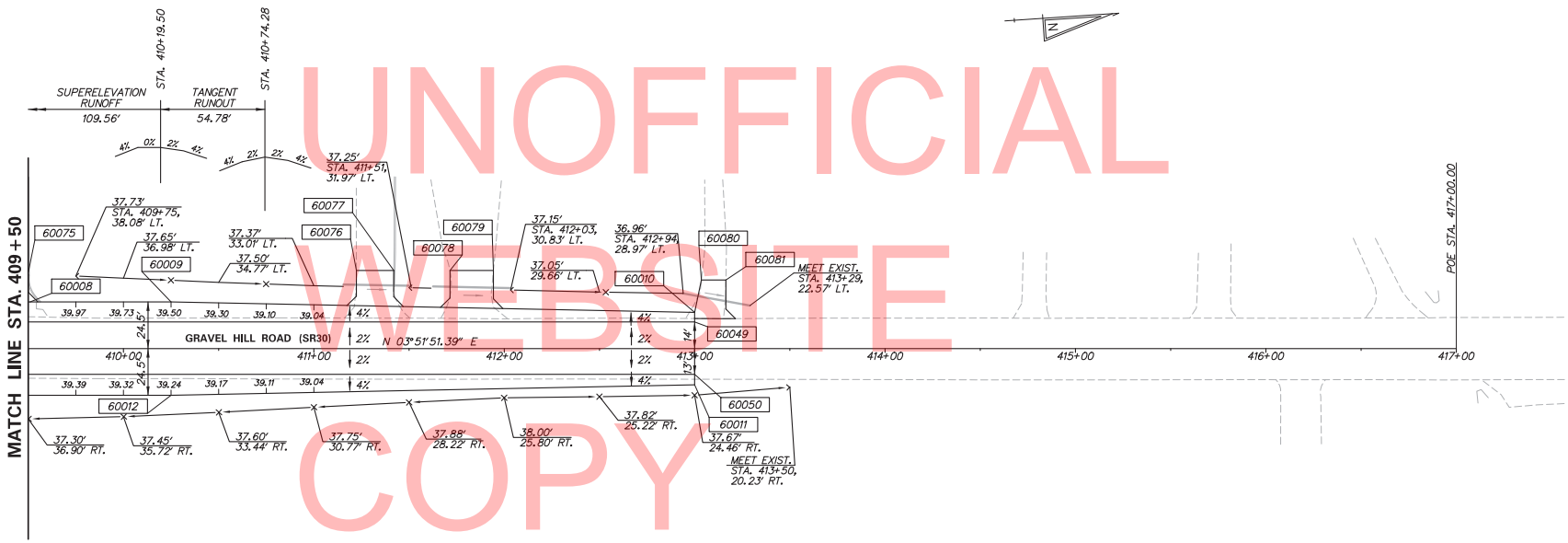
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	GRADES & GEOMETRICS	SHEET NO. 49
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

NOTES:

1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION 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 INTERSECTIONS ARE GIVEN AT 10 FOOT INTERVALS.
5. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND PAID FOR UNDER ITEM 763501 - CONSTRUCTION ENGINEERING.
6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR EXISTING CURBS SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
60008	409+51.00	-24.50	260397.7220	684664.4305
60009	410+25.00	-24.50	260471.5528	684669.4175
60010	413+00.00	-19.00	260745.5570	684693.4381
60011	413+00.00	-19.00	260745.5570	684693.4381
60012	410+25.00	24.50	260468.2506	684718.3061
60049	413+00.00	-14.00	260745.2200	684698.4267
60050	413+00.00	13.50	260743.3667	684725.8642
60075	409+50.05	-39.00	260397.7508	684649.8993
60076	411+22.32	-41.00	260569.7655	684659.5138
60077	411+41.96	-41.00	260589.3548	684660.8370
60078	411+71.50	-41.00	260618.8338	684662.8282
60079	411+94.31	-41.00	260641.5878	684664.3652
60080	413+03.54	-36.00	260750.2339	684676.7153
60081	413+16.40	-36.00	260763.0637	684677.5819



UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\G005\I59-SR30.dgn
2/26/2013 2:41:12 PM

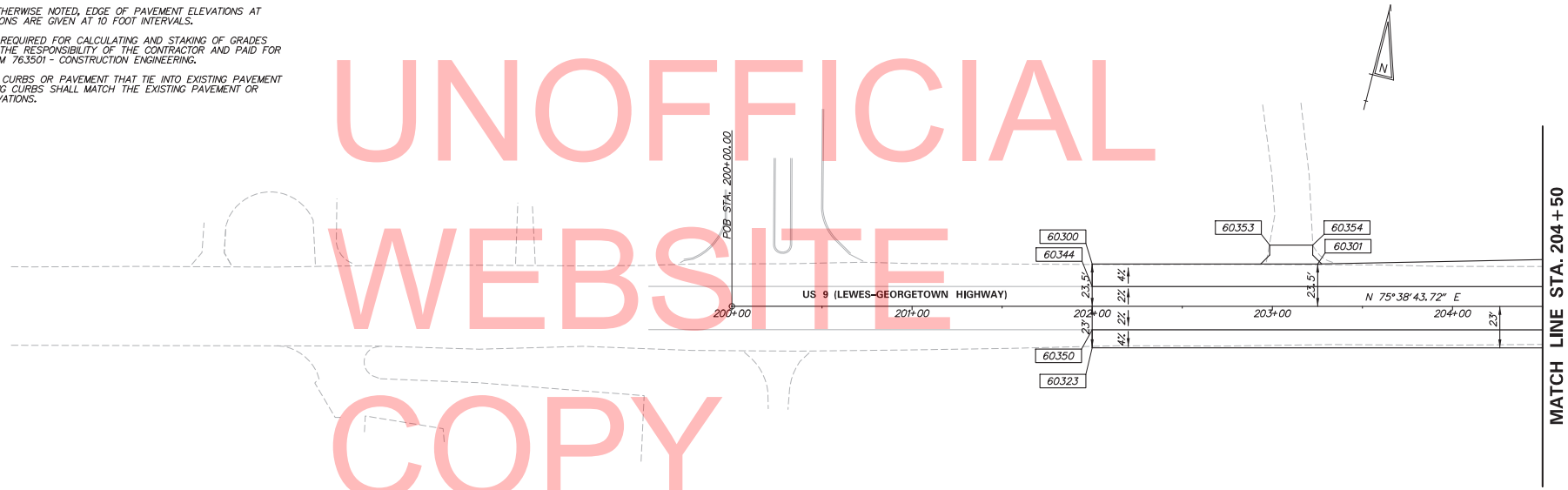
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	GRADES & GEOMETRICS	SHEET NO. 50
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
¢60300	202+00.00	-23.50	265459.1830	699148.3667
¢60301	203+25.16	-23.50	265490.2134	699269.6217
¢60323	202+00.00	23.00	265414.1347	699159.8950
¢60344	202+00.00	-11.00	265447.0732	699151.4657
¢60351	205+25.62	13.00	265504.5506	699472.8705
¢60354	203+22.39	-34.00	265499.6972	699264.3287
¢60355	215+52.82	-297.46	266059.9799	700391.0294

NOTES:

1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION 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 INTERSECTIONS ARE GIVEN AT 10 FOOT INTERVALS.
5. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND PAID FOR UNDER ITEM 763501 - CONSTRUCTION ENGINEERING.
6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR EXISTING CURBS SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.

UNOFFICIAL WEBSITE COPY



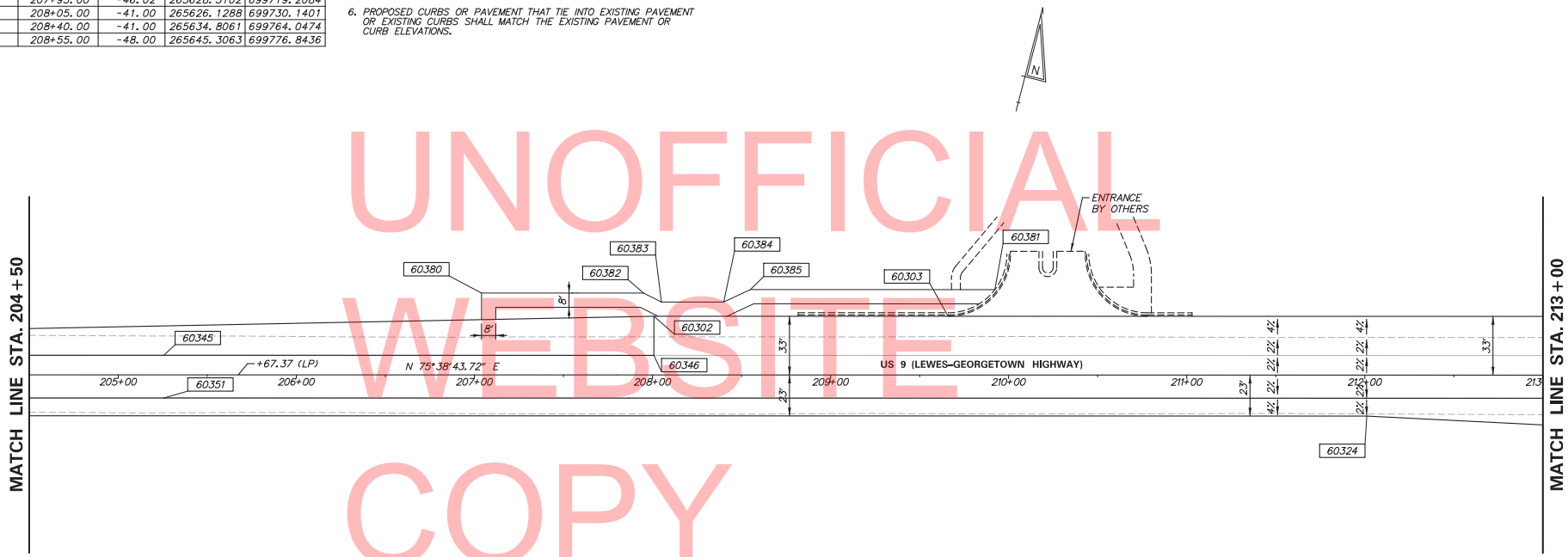
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	GRADES & GEOMETRICS	SHEET NO. 51
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

N:\31606-007\CADD\G00HUS9-hudson.dgn
2/26/2013 2:41:18 PM

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60302	208+00.78	-33.00	265617.3324	699728.0352
60303	209+66.00	-33.00	265658.2932	699888.0944
60324	212+01.15	23.00	265662.3402	700129.7868
60345	205+25.62	-11.00	265527.8014	699466.9204
60346	208+00.78	-11.00	265596.0192	699733.4895
60351	205+25.62	13.00	265504.5506	699472.8705
60380	207+04.00	-46.00	265605.9311	699631.0541
60381	209+92.25	-48.00	265679.3325	699909.8049
60382	207+95.00	-46.02	265628.5102	699719.2084
60383	208+05.00	-41.00	265626.1288	699730.1401
60384	208+40.00	-41.00	265634.8061	699764.0474
60385	208+55.00	-48.00	265645.3063	699776.8436

NOTES:

1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION 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 INTERSECTIONS ARE GIVEN AT 10 FOOT INTERVALS.
5. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND PAID FOR UNDER ITEM 763501 - CONSTRUCTION ENGINEERING.
6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR EXISTING CURBS SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.



UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\GG07\59-Hudson.dgn
4/22/2013 12:06:23 PM

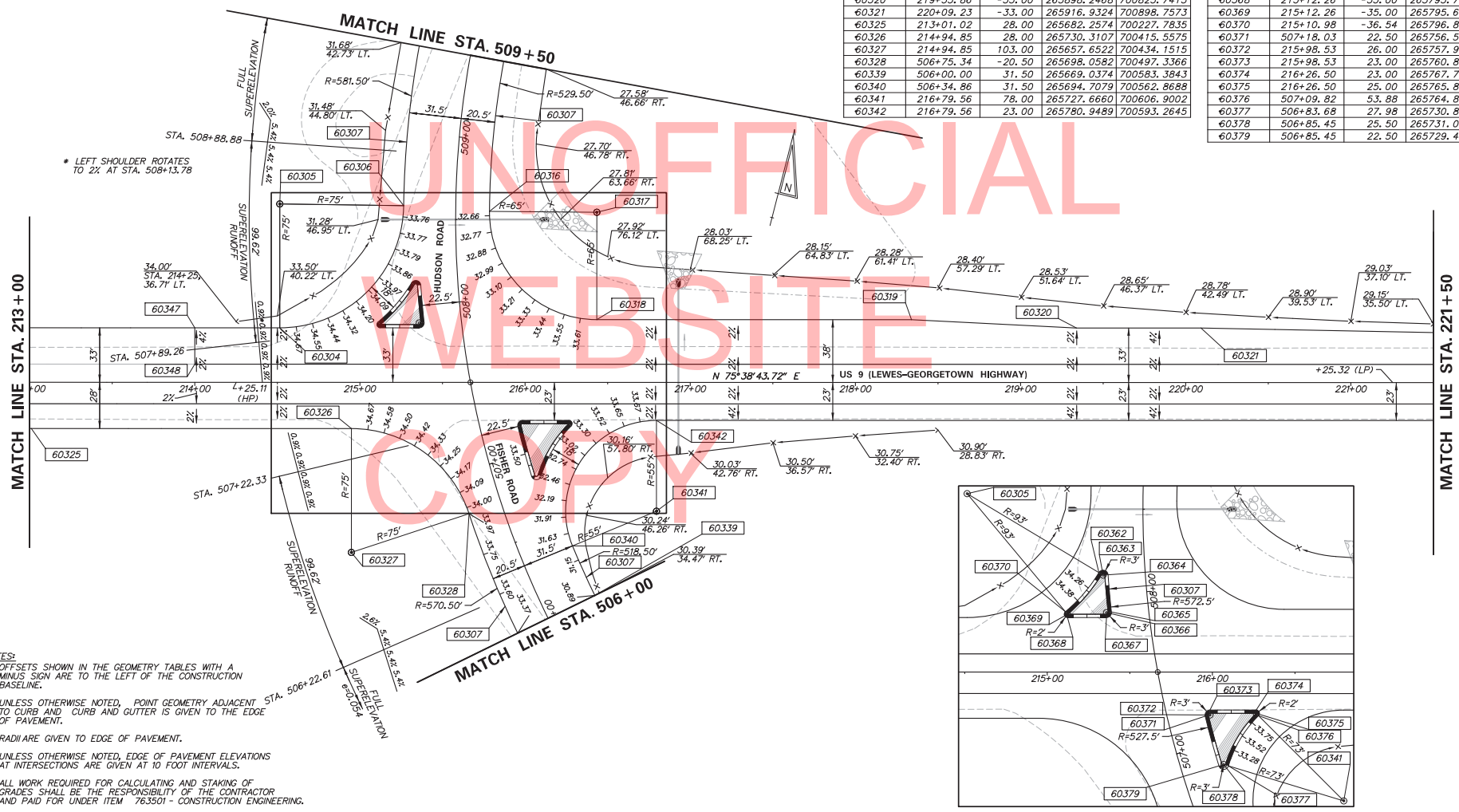
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	GRADES & GEOMETRICS	SHEET NO. 52
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
60304	214+51.46	-33.00	265778.6498	700358.4018
60305	214+51.46	-108.00	265851.3083	700339.8077
60306	508+57.94	-31.50	265868.9136	700412.7121
60307	510+60.12	550.00	266005.4135	700977.9643
60316	508+55.11	20.50	265878.4712	700463.9060
60317	508+55.11	85.50	265894.0543	700527.0105
60318	216+43.42	-38.00	265831.0836	700543.1253
60319	218+33.95	-38.00	265878.3205	700727.7091
60320	219+33.86	-33.00	265898.2468	700825.7413
60321	220+09.23	-33.00	265916.9324	700898.7573
60325	213+01.02	28.00	265682.2574	700227.7835
60326	214+94.85	28.00	265730.3107	700415.5575
60327	214+94.85	103.00	265657.6522	700434.1515
60328	506+75.34	-20.50	265698.0582	700497.3366
60339	506+00.00	31.50	265669.0374	700583.3843
60340	506+34.86	31.50	265694.7079	700562.8688
60341	216+79.56	78.00	265727.6660	700606.9002
60342	216+79.56	23.00	265780.9489	700593.2645

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
60347	214+00.00	-33.00	265765.8916	700308.5477
60348	214+00.00	-11.00	265744.5784	700314.0019
60362	508+13.46	-27.96	265824.7977	700428.9491
60363	508+11.83	-25.50	265823.9425	700431.8246
60364	508+11.83	-22.50	265824.8885	700434.6716
60365	507+90.06	-22.50	265803.5402	700442.2373
60366	215+35.87	-36.00	265802.4824	700439.4300
60367	215+35.87	-33.00	265799.5761	700440.1737
60368	215+12.26	-33.00	265793.7221	700417.2985
60369	215+12.26	-35.00	265795.6596	700416.8027
60370	215+10.98	-36.54	265796.8312	700415.1817
60371	507+18.03	22.50	265756.5386	700512.8648
60372	215+98.53	26.00	265757.9540	700515.5099
60373	215+98.53	23.00	265760.8604	700514.7662
60374	216+26.50	23.00	265767.7928	700541.8552
60375	216+26.50	25.00	265765.8552	700542.3511
60376	507+09.82	53.88	265764.8368	700544.0724
60377	506+83.68	27.98	265730.8740	700533.9707
60378	506+85.45	25.50	265731.0059	700530.9736
60379	506+85.45	22.50	265729.4363	700528.4169



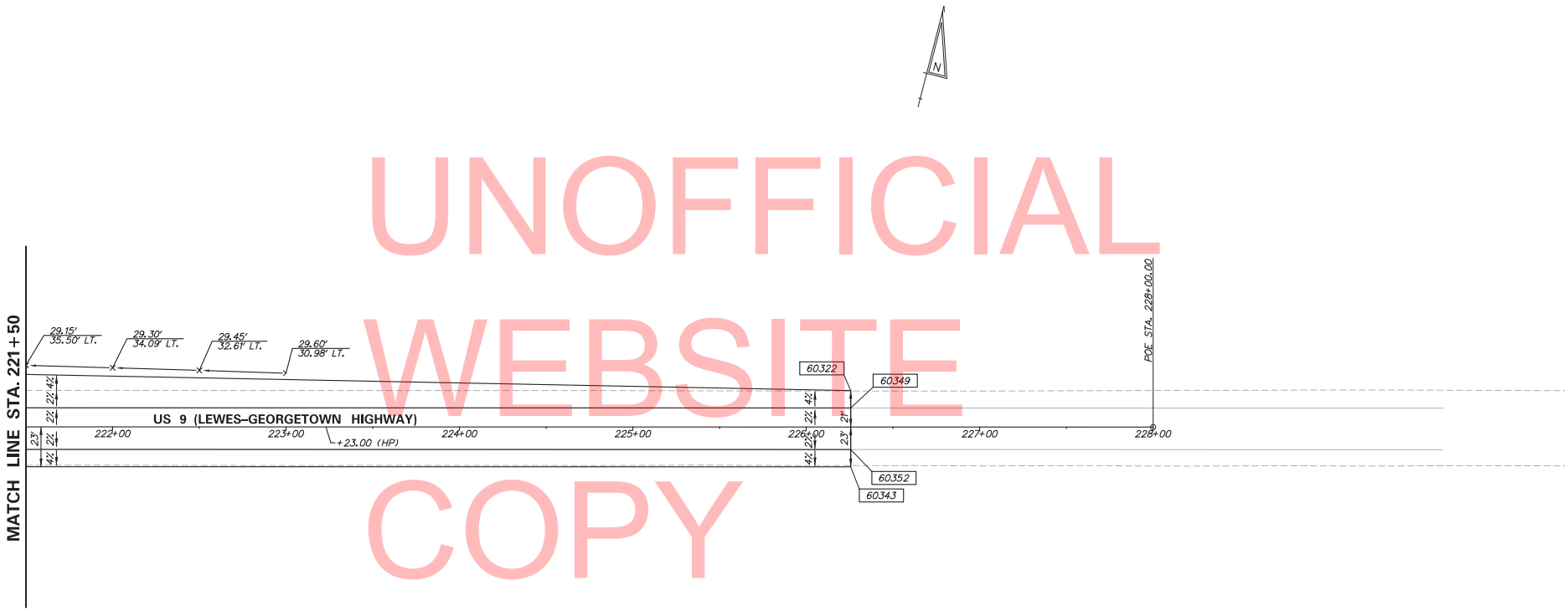
NOTES:

1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION 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 INTERSECTIONS ARE GIVEN AT 10 FOOT INTERVALS.
5. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND PAID FOR UNDER ITEM 763501 - CONSTRUCTION ENGINEERING.
6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR EXISTING CURBS SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.

N:\31606-007\CADD\G008US9-Hudson.dgn
2/26/2013 2:19:29 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901 / COUNTY SUSSEX	BRIDGE NO. N/A / DESIGNED BY: J.L.R. / CHECKED BY: R.R.W.	GRADES & GEOMETRICS	SHEET NO. 53 / TOTAL SHTS. 161

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60322	226+25.62	-21.00	266058.1233	701498.8797
60343	226+25.62	23.00	266015.4969	701509.7882
60349	226+25.62	-11.00	266048.4355	701501.3589
60352	226+25.62	13.00	266025.1848	701507.3090



UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\GD09US9-hudson.dgn
2/26/2013 2:19:58 PM

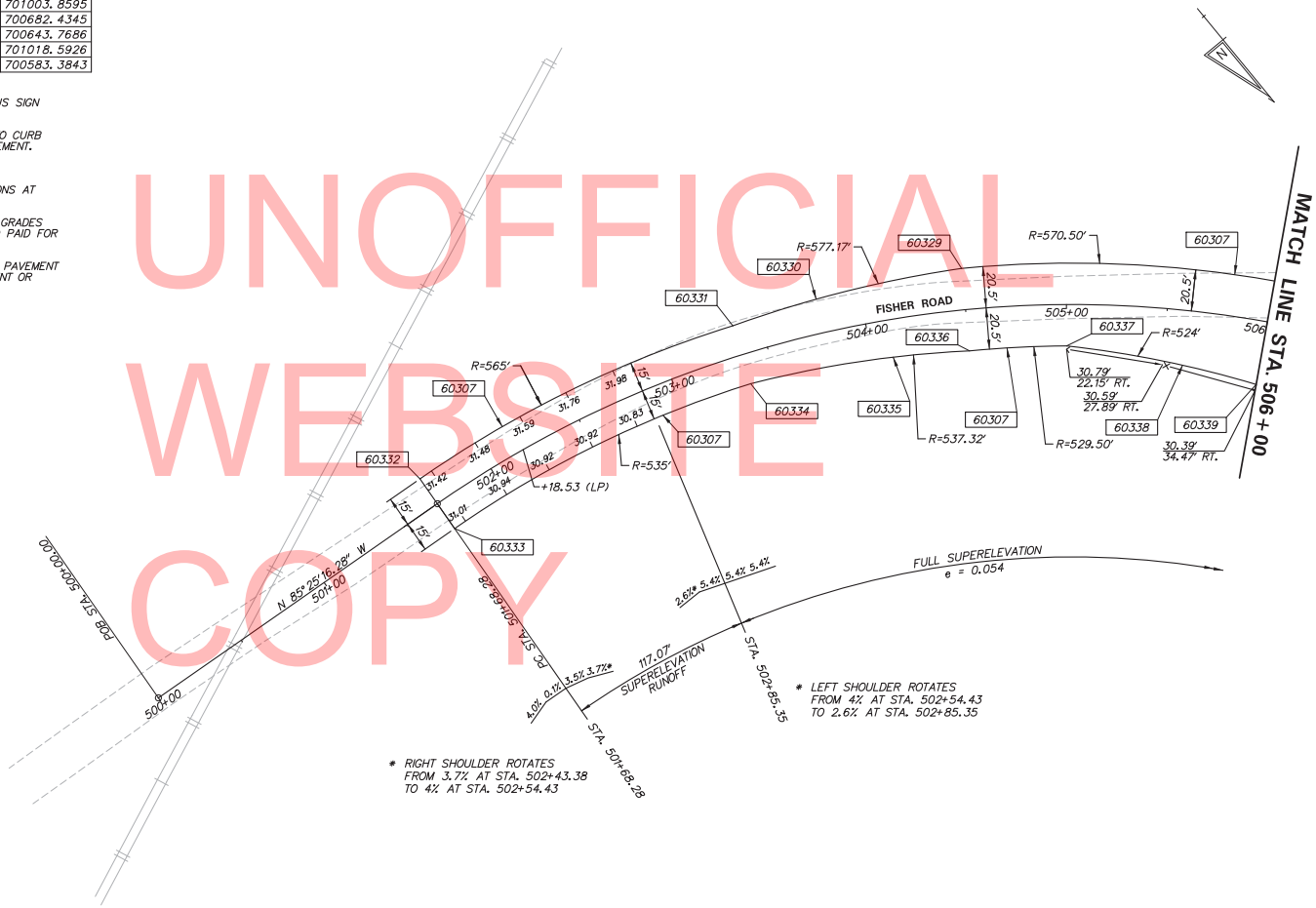
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	GRADES & GEOMETRICS	SHEET NO. 54
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
¢60307	510+60.12	550.00	266005.4135	700977.9643
¢60329	504+50.00	-20.50	265532.0391	700659.5512
¢60330	510+77.93	527.65	266025.9828	700958.1255
¢60331	503+36.77	-15.00	265482.0410	700765.1119
¢60332	501+68.28	-15.00	265442.2167	700932.8602
¢60333	501+68.28	15.00	265472.1210	700935.2551
¢60334	503+36.75	15.00	265509.8228	700776.4330
¢60335	501+41.77	543.32	265996.6421	701003.8595
¢60336	504+50.00	20.50	265566.0590	700682.4345
¢60337	505+00.00	20.50	265594.7026	700643.7686
¢60338	501+24.23	508.85	265960.8760	701018.5926
¢60339	506+00.00	31.50	265669.0374	700583.3843

NOTES:

1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION 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 INTERSECTIONS ARE GIVEN AT 10 FOOT INTERVALS.
5. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND PAID FOR UNDER ITEM 763501 - CONSTRUCTION ENGINEERING.
6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR EXISTING CURBS SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.



UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\GD\DU59-Hudson.dgn
2/26/2013 2:11:43 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	GRADES & GEOMETRICS	SHEET NO. 55
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

COORDINATE LIST

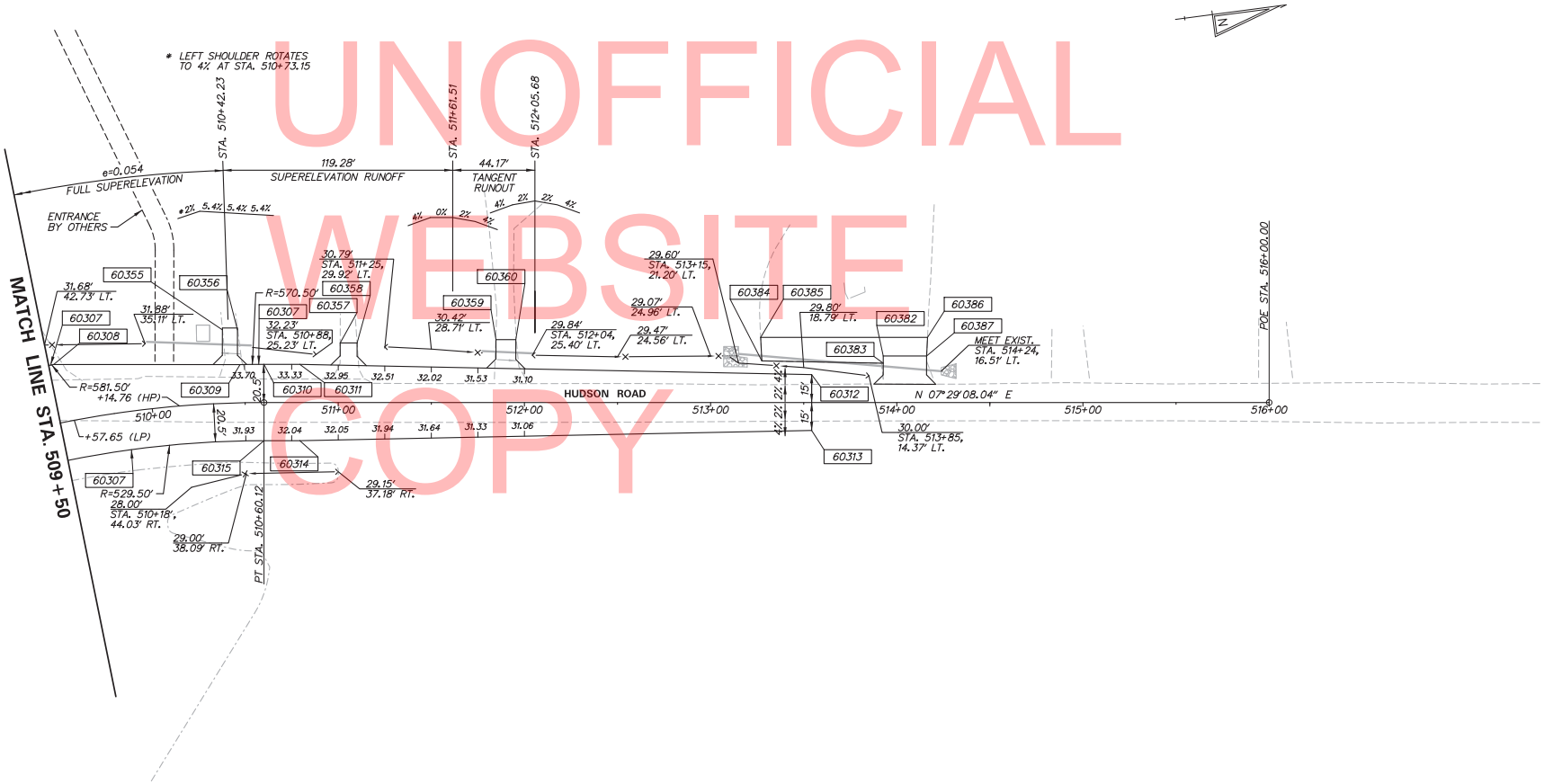
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60307	510+60.12	550.00	266005.4135	700977.9643
60308	509+52.57	-31.50	265967.7038	700397.6883
60309	510+47.69	-20.50	266066.9348	700410.7912
60310	510+60.12	-20.50	266079.7362	700412.3263
60311	510+79.36	-20.50	266098.8058	700414.8319
60312	513+54.27	-15.00	266370.6621	700456.1001
60313	513+54.27	15.00	266366.7538	700485.8444
60314	510+79.36	20.50	266093.4641	700455.4855
60315	510+60.12	20.50	266074.3949	700452.9769
60355	510+39.25	-39.47	266059.9799	700391.0294
60356	510+46.81	-39.21	266068.0122	700392.0900
60357	511+01.04	-32.00	266121.8003	700406.2545
60358	511+10.11	-32.00	266130.8005	700407.4371
60359	511+84.70	-33.77	266204.9792	700415.3966
60360	511+95.39	-33.77	266215.5811	700416.7897

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
60382	513+92.74	-25.00	266410.1029	700451.1966
60383	513+92.74	-21.12	266409.5969	700455.0471
60384	513+27.49	-22.39	266345.0718	700445.2881
60385	513+26.88	-35.00	266346.1108	700432.7023
60386	514+16.51	-35.00	266434.9788	700432.7023
60387	514+16.02	-25.00	266433.1866	700454.2297

NOTES:

1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION 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 INTERSECTIONS ARE GIVEN AT 10 FOOT INTERVALS.
5. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND PAID FOR UNDER ITEM 763501 - CONSTRUCTION ENGINEERING.
6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR EXISTING CURBS SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.



UNOFFICIAL WEBSITE COPY

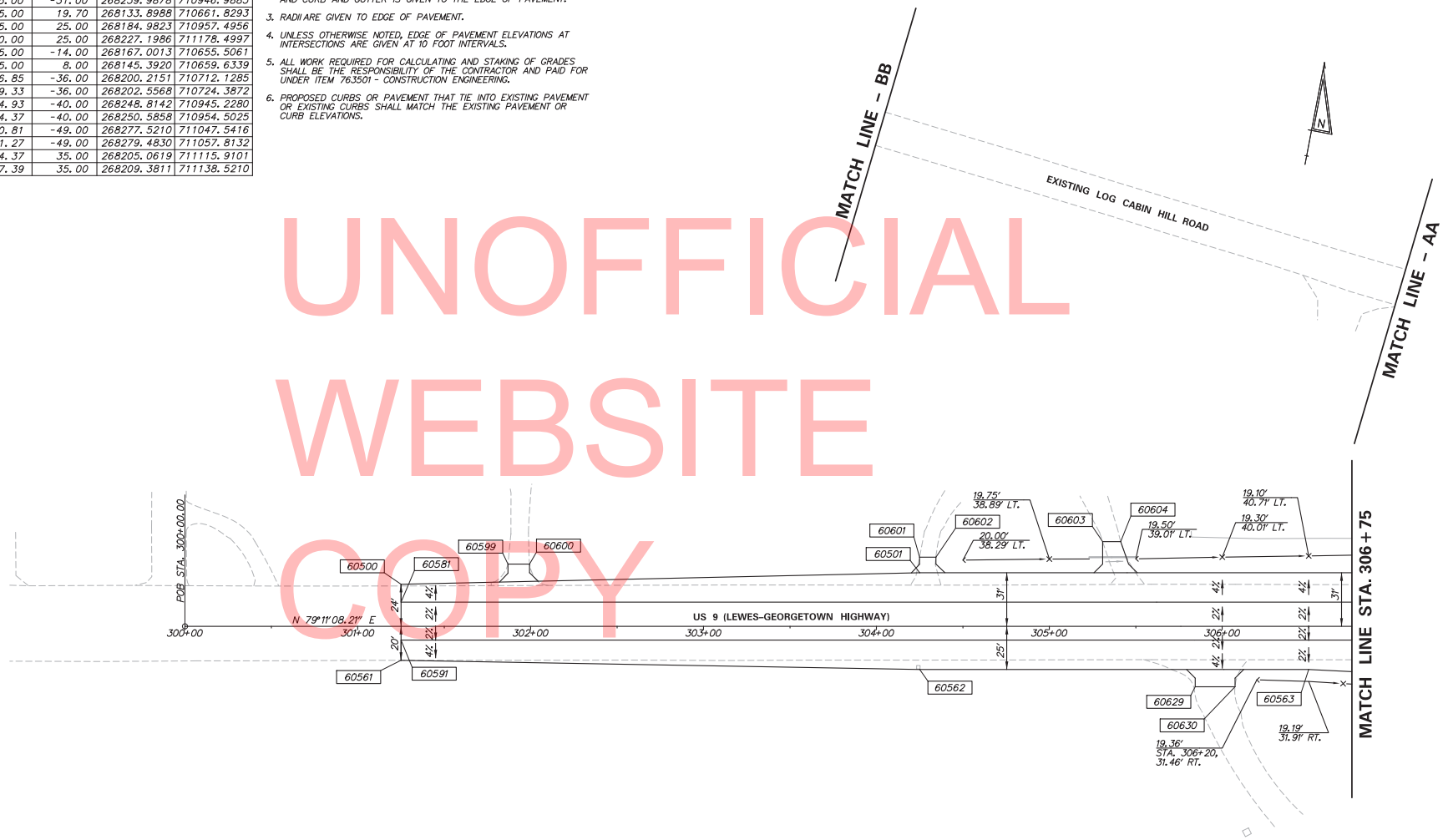
N:\31606-007\CADD\GDT\US9-Hudson.dgn
2/26/2013 2:11:47 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	GRADES & GEOMETRICS	SHEET NO. 56
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60500	301+25.00	-24.33	268177.1475	710653.5680
60501	304+25.00	-31.00	268239.9878	710946.9885
60561	301+25.00	19.70	268133.8988	710661.8293
60562	304+25.00	25.00	268184.9823	710957.4956
60563	306+50.00	25.00	268227.1986	711178.4997
60581	301+25.00	-14.00	268167.0013	710655.5061
60591	301+25.00	8.00	268145.3920	710659.6339
60599	301+86.85	-36.00	268200.2151	710712.1285
60600	301+99.33	-36.00	268202.5568	710724.3872
60601	304+24.93	-40.00	268248.8142	710945.2280
60602	304+34.37	-40.00	268250.5858	710954.5025
60603	305+30.81	-49.00	268277.5210	711047.5416
60604	305+41.27	-49.00	268279.4830	711057.8132
60629	305+84.37	35.00	268205.0619	711115.9101
60630	306+07.39	35.00	268209.3811	711138.5210

NOTES:

1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION 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 INTERSECTIONS ARE GIVEN AT 10 FOOT INTERVALS.
5. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND PAID FOR UNDER ITEM 763501 - CONSTRUCTION ENGINEERING.
6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR EXISTING CURBS SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.



UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\GD2US9-Dary.dgn
2/26/2013 2:19:58 PM

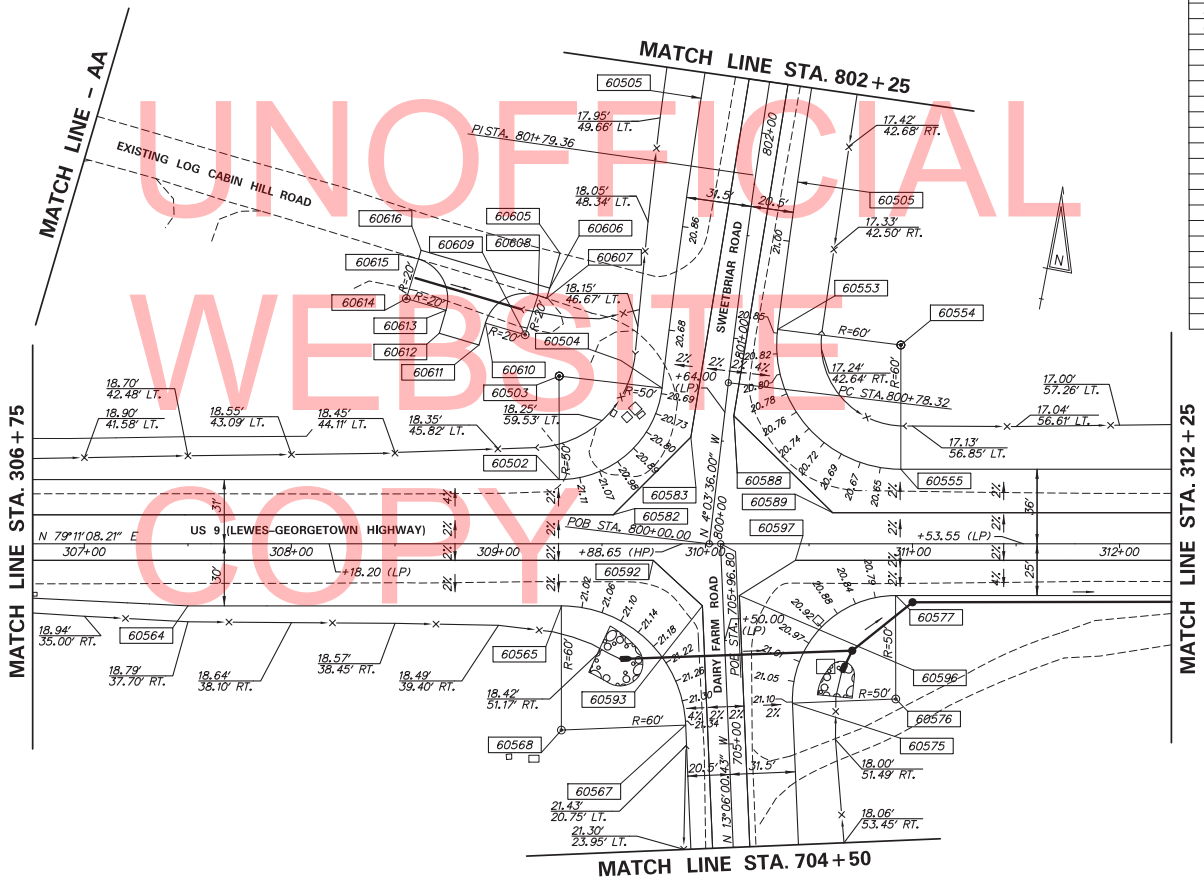
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	GRADES & GEOMETRICS	SHEET NO. 57
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

NOTES:

1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION 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 INTERSECTIONS ARE GIVEN AT 10 FOOT INTERVALS.
5. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND PAID FOR UNDER ITEM 763501 - CONSTRUCTION ENGINEERING.
6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR EXISTING CURBS SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
60502	309+29.34	-31.00	268334.6161	711442.3719
60503	309+29.34	-81.00	268383.7281	711432.9906
60504	800+71.99	-31.50	268387.3465	711482.8595
60505	802+80.35	4000.00	268679.0934	715503.7892
60553	801+06.79	20.50	268425.5990	711532.3712
60554	310+94.34	-96.00	268429.4210	711592.2494
60555	310+94.34	-36.00	268370.4866	711603.5070
60564	307+50.00	30.00	268241.0502	711277.6618
60565	309+30.44	30.00	268274.9065	711454.9009
60567	705+10.08	-20.50	268229.6803	711524.5716
60568	309+30.44	90.00	268215.9721	711466.1585
60575	705+18.33	31.50	268249.5868	711573.3127
60576	310+91.96	75.00	268261.0103	711621.9903
60577	310+91.96	25.00	268310.1223	711612.6089
60582	309+55.39	-14.00	268322.8063	711471.1521
60583	800+50.09	-14.91	268366.6759	711500.9497
60588	800+62.74	4.49	268380.6616	711519.4105
60589	310+61.42	-15.00	268343.6827	711575.1111
60592	309+74.71	8.00	268304.8210	711494.2516
60593	705+67.20	-10.00	268287.6823	711521.7451
60596	705+71.43	8.00	268295.9185	711538.3013
60597	310+43.40	8.00	268317.7087	711561.7190
60605	801+29.75	-88.47	268442.0849	711422.1952
60606	801+12.76	-91.23	268424.5730	711420.4793
60607	801+07.83	-92.05	268419.4889	711419.9812
60608	801+08.64	-96.35	268420.0519	711415.6426
60609	800+89.49	-100.21	268400.2181	711413.0691
60610	800+92.70	-119.94	268402.1684	711393.1644
60611	800+82.13	-121.77	268391.1823	711392.0880
60612	800+85.35	-141.49	268393.1326	711372.1833
60613	800+96.40	-139.58	268404.6746	711373.3142
60614	800+99.54	-159.31	268406.6249	711353.4095
60615	801+18.49	-155.85	268426.5017	711355.6264
60616	801+22.68	-155.15	268430.8851	711356.0559



UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\GD\US9-Dairy.dgn
2/28/2013 11:38:18 AM

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

HSIP SUSSEX COUNTY US 9 PROJECTS

CONTRACT	BRIDGE NO. N/A
T200800901	DESIGNED BY: J.L.R.
COUNTY	
SUSSEX	CHECKED BY: R.R.W.

GRADES & GEOMETRICS

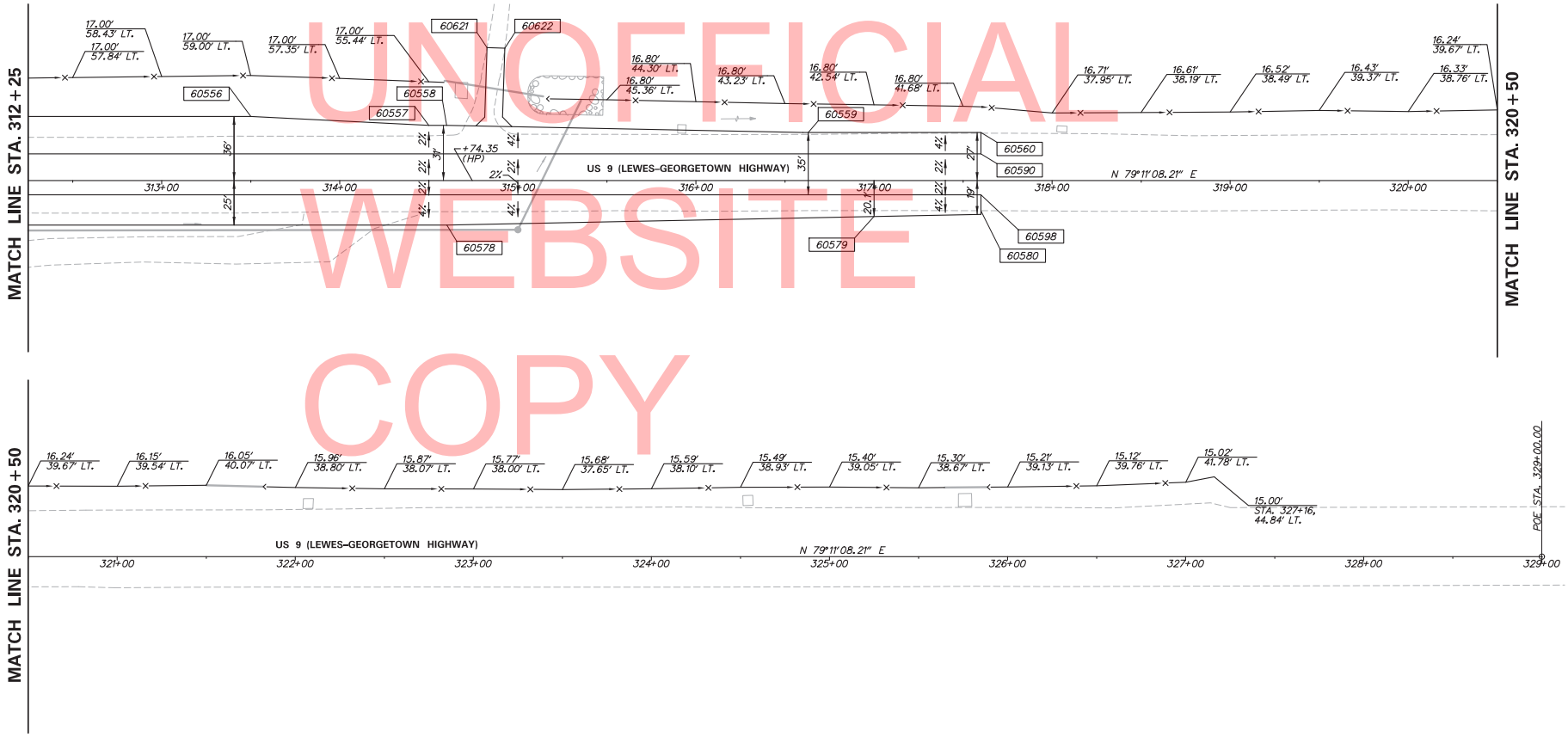
SHEET NO. 58
TOTAL SHTS. 161

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
60556	313+50.00	-36.00	268418.4548	711854.6225
60557	314+49.93	-31.00	268432.2938	711953.7188
60558	314+60.00	-31.00	268434.1827	711963.6070
60559	316+63.04	-27.00	268468.3503	712163.7948
60560	317+60.00	-27.00	268486.5421	712259.0296
60578	314+60.10	25.00	268379.1962	711974.2138
60579	317+00.00	20.13	268428.9898	712208.9384
60580	317+60.00	17.00	268443.3235	712267.2852
60590	317+60.00	-15.00	268474.7552	712261.2811
60598	317+60.00	8.00	268452.1637	712265.5966
60621	314+82.70	-74.67	268481.3158	711977.6669
60622	314+92.70	-74.34	268482.8683	711987.5456

NOTES:

1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION 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 INTERSECTIONS ARE GIVEN AT 10 FOOT INTERVALS.
5. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND PAID FOR UNDER ITEM 763501 - CONSTRUCTION ENGINEERING.
6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR EXISTING CURBS SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.



UNOFFICIAL WEBSITE COPY

N:\31806-007\CADD\GDH\US9-Dwy.dgn
2/26/2013 2:10:18 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	GRADES & GEOMETRICS	SHEET NO. 59
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

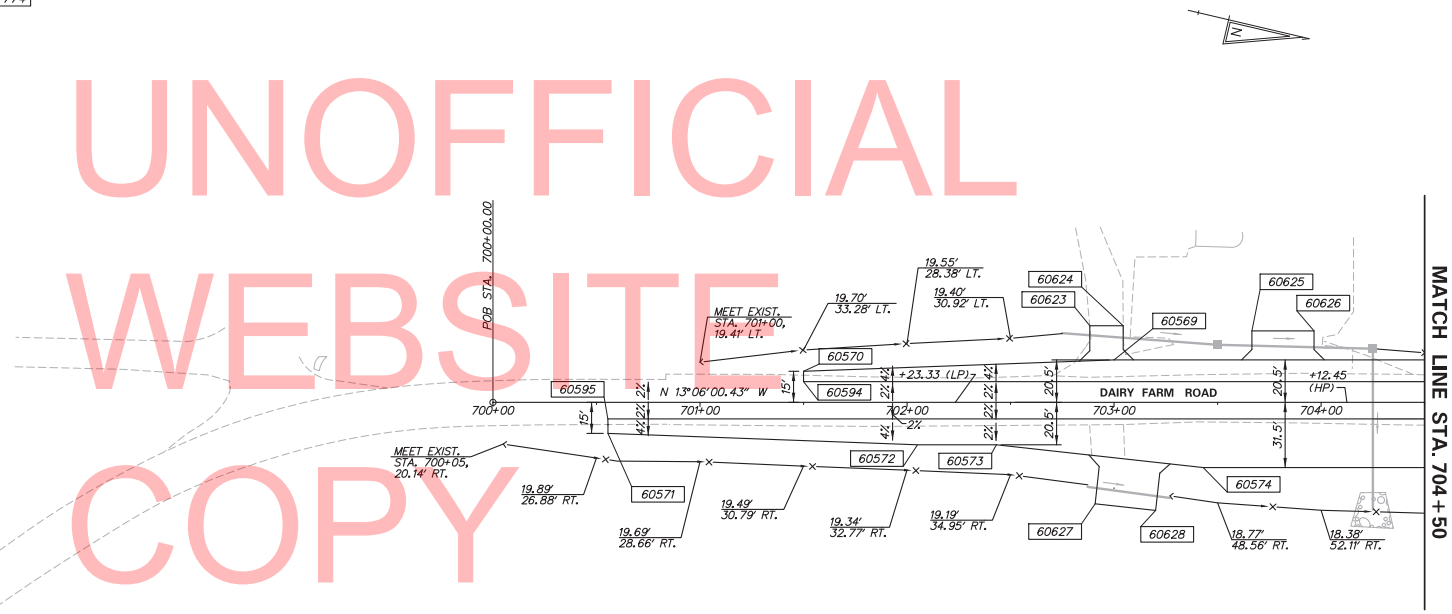
COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
60569	702+05.20	-20.50	267932.8618	711594.2282
60570	700+55.40	-15.50	267788.1647	711633.3212
60571	700+55.55	15.50	267795.3970	711663.4661
60572	702+05.08	20.50	267942.1079	711634.1722
60573	702+43.15	20.50	267979.1761	711625.4731
60574	703+43.08	31.50	268078.9761	711613.3512
60594	700+55.43	-10.00	267789.4478	711638.6695
60595	700+55.52	8.00	267793.6472	711656.1730
60623	702+88.26	-37.00	268009.9529	711559.1884
60624	703+04.42	-37.00	268025.6897	711555.4953
60625	703+66.59	-34.50	268086.7821	711543.7262
60626	703+96.59	-34.50	268115.9887	711536.8721
60627	702+90.84	49.00	268032.1145	711642.3240
60628	703+20.08	52.22	268061.3132	711638.7774

NOTES:

1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION 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 INTERSECTIONS ARE GIVEN AT 10 FOOT INTERVALS.
5. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND PAID FOR UNDER ITEM 763501 - CONSTRUCTION ENGINEERING.
6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR EXISTING CURBS SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.

UNOFFICIAL WEBSITE COPY

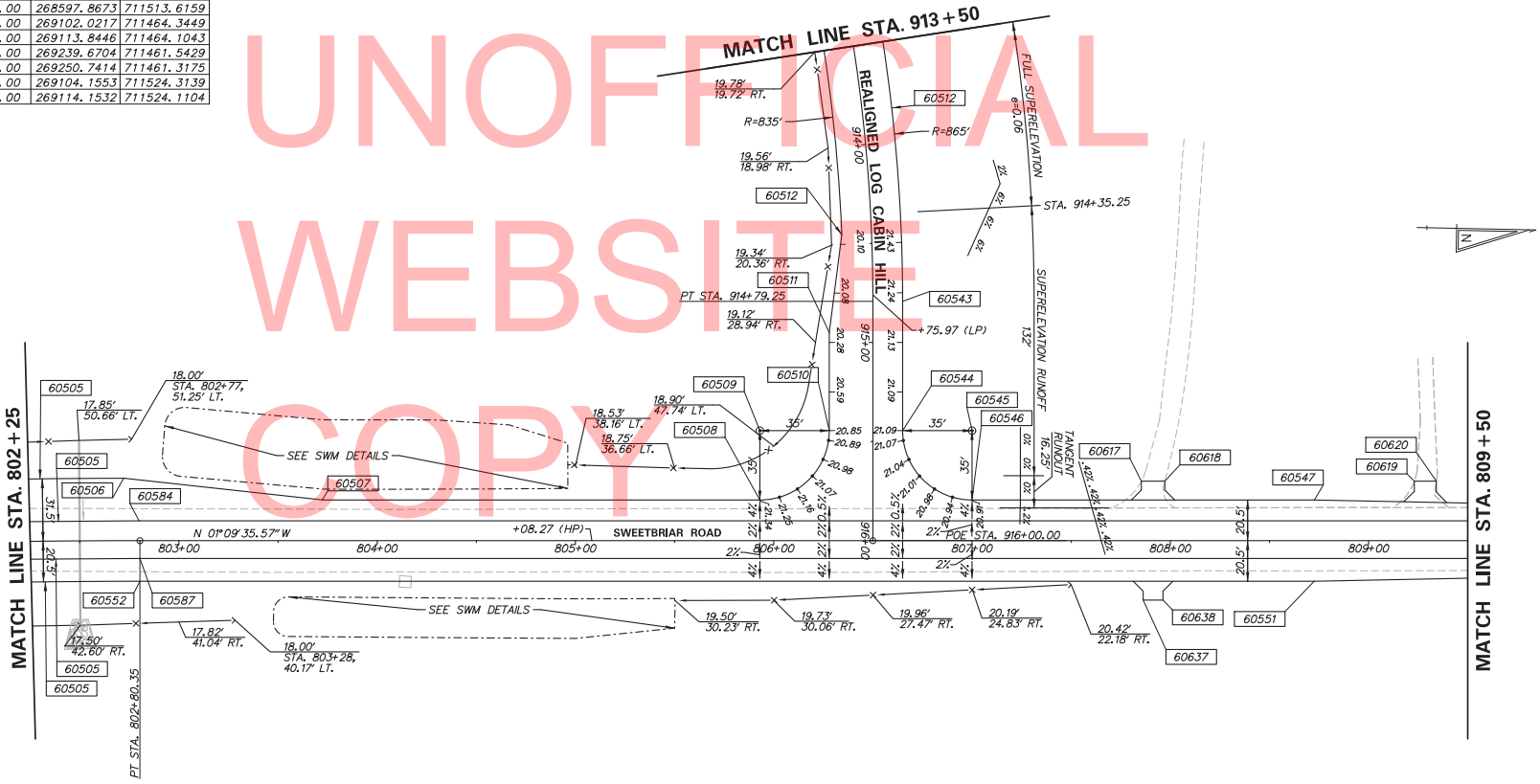


N:\31606-007\CADD\GDSUS9-Dairy.dgn
3/29/2013 5:08:07 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	GRADES & GEOMETRICS	SHEET NO. 60
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
60505	802+80.35	4000.00	268679.0934	715503.7892
60506	802+72.62	-31.50	268589.2574	711473.2903
60507	803+72.70	-20.50	268689.5970	711482.2424
60508	805+93.00	-20.50	268909.8543	711477.7588
60509	805+93.00	-55.50	268909.1420	711442.7660
60510	915+44.50	22.00	268944.1347	711442.0537
60511	914+95.00	22.00	268943.1273	711392.5640
60512	914+45.00	15.00	268948.4430	711343.0591
60543	914+79.25	-15.00	268979.7991	711376.0654
60544	915+44.50	-15.00	268981.1270	711441.3006
60545	807+00.00	-20.50	269016.1198	711440.5883
60546	807+00.00	-20.50	269016.8321	711475.5811
60547	808+72.64	-20.50	269189.4413	711472.0673
60551	808+72.53	20.50	269190.1646	711513.0611
60552	802+80.35	20.50	268598.1014	711525.1135
60584	802+80.35	-10.00	268597.4806	711494.6198
60587	802+80.35	9.00	268597.8673	711513.6159
60617	807+85.40	-30.00	269102.0217	711464.3449
60618	807+97.23	-30.00	269113.8446	711464.1043
60619	809+23.08	-30.00	269239.6704	711461.5429
60620	809+34.15	-30.00	269250.7414	711461.3175
60637	807+86.31	30.00	269104.1553	711524.3139
60638	807+96.31	30.00	269114.1532	711524.1104



UNOFFICIAL WEBSITE COPY

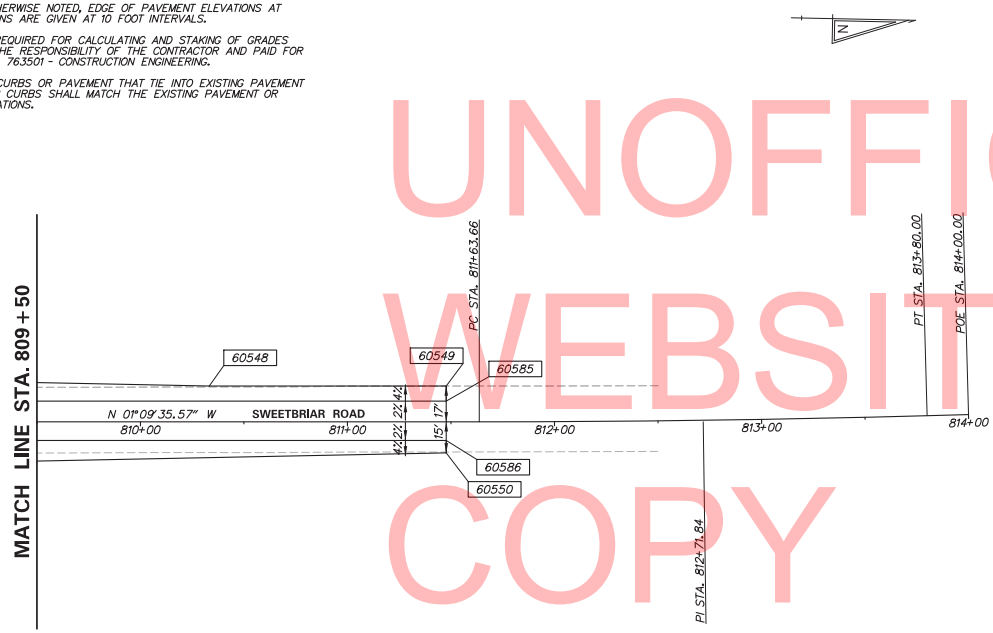
N:\31806-007\CADD\GD\RU59-Dairy.dgn
3/21/2013 3:43:25 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	GRADES & GEOMETRICS	SHEET NO. 61
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60548	810+33.22	-17.29	269350.0511	711472.0101
60549	811+47.72	-17.29	269464.5202	711469.6799
60550	811+47.71	15.00	269465.1746	711501.9604
60585	811+47.72	-10.00	269464.6685	711476.9668
60586	811+47.71	9.00	269465.0531	711495.9629

NOTES:

1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION 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 INTERSECTIONS ARE GIVEN AT 10 FOOT INTERVALS.
5. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND PAID FOR UNDER ITEM 763501 - CONSTRUCTION ENGINEERING.
6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR EXISTING CURBS SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.



UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\GDT\659-Dary.dgn
2/26/2013 2:49:37 PM

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

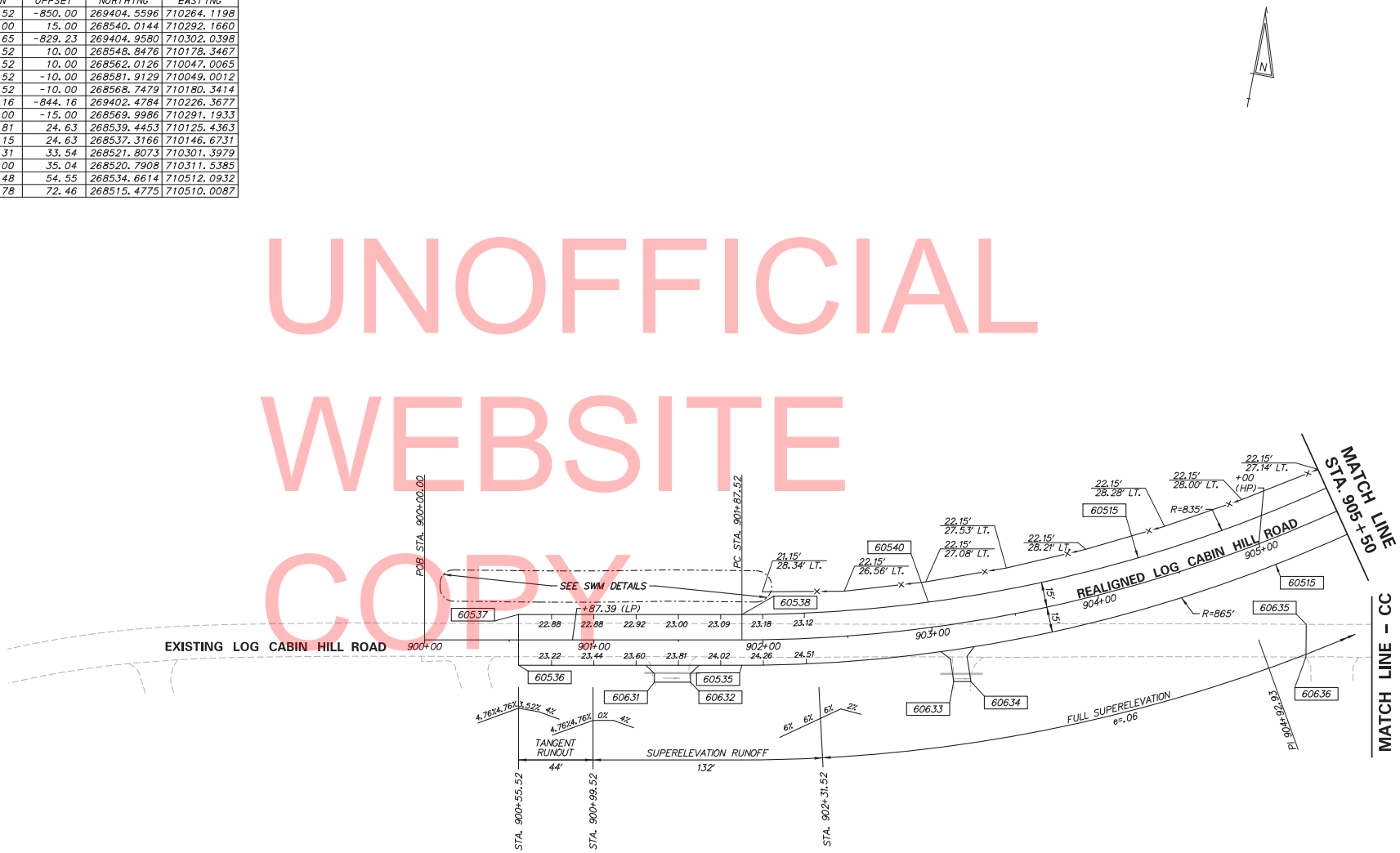
SCALE 0 30 60 90 FEET

HSIP SUSSEX COUNTY US 9 PROJECTS

CONTRACT	BRIDGE NO. N/A	GRADES & GEOMETRICS	SHEET NO.
T200800901	DESIGNED BY: J.L.R.		62
COUNTY			TOTAL SHTS.
SUSSEX	CHECKED BY: R.R.W.		161

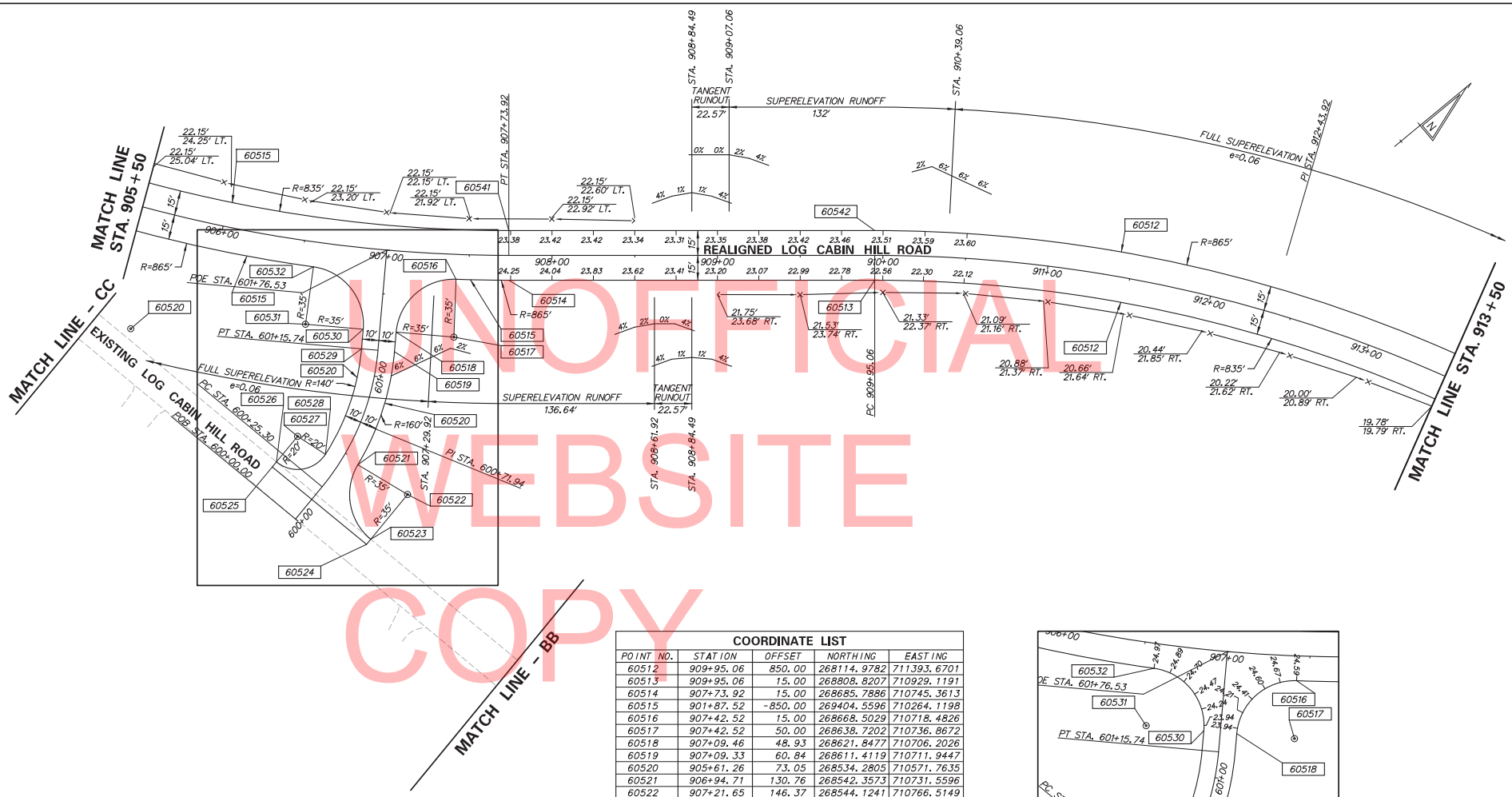
COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60515	901+87.52	-850.00	269404.5596	710264.1198
60533	903+00.00	15.00	268540.0144	710292.1660
60534	908+05.65	-829.23	269404.9580	710302.0398
60535	901+87.52	10.00	268548.8476	710178.3467
60536	900+55.52	10.00	268562.0126	710047.0065
60537	900+55.52	-10.00	268581.9129	710049.0012
60538	901+87.52	-10.00	268568.7479	710180.3414
60539	901+50.16	-844.16	269402.4784	710226.3677
60540	903+00.00	-15.00	268569.9986	710291.1933
60631	901+35.81	24.63	268539.4453	710125.4363
60632	901+57.15	24.63	268537.3166	710146.6731
60633	903+08.31	33.54	268521.8073	710301.3979
60634	903+18.00	35.04	268520.7908	710311.5385
60635	905+08.48	54.55	268534.6614	710512.0932
60636	905+01.78	72.46	268515.4775	710510.0087

UNOFFICIAL WEBSITE COPY



DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	GRADES & GEOMETRICS	SHEET NO. 63
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

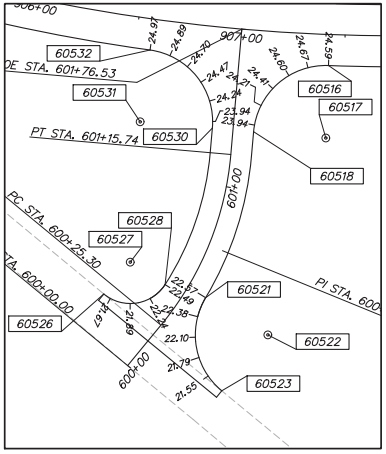
N:\31606-007\CADD\GDB\US9-Dairy.dgn
2/26/2013 2:12:42 PM



UNOFFICIAL WEBSITE COPY

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
60512	909+95.06	850.00	268114.9782	711393.6701
60513	909+95.06	15.00	268808.8207	710929.1191
60514	907+73.92	15.00	268685.7886	710745.3613
60515	901+87.52	-850.00	269404.5596	710264.1198
60516	907+42.52	15.00	268668.5029	710718.4826
60517	907+42.52	50.00	268638.7202	710736.8672
60518	907+09.46	48.93	268621.8477	710706.2026
60519	907+09.33	60.84	268611.4119	710711.9447
60520	905+61.26	73.05	268534.2805	710571.7635
60521	906+94.71	130.76	268542.3573	710731.5596
60522	907+21.65	146.37	268544.1241	710766.5149
60523	907+04.60	174.90	268509.2964	710763.0463
60524	907+02.73	178.20	268505.3139	710762.6727
60525	906+50.50	138.23	268512.4831	710689.3141
60526	906+52.30	134.81	268516.4622	710689.7226
60527	906+61.45	117.80	268536.3597	710691.7455
60528	906+77.20	126.49	268536.7062	710711.7425
60529	906+90.67	60.84	268601.7705	710694.4220
60530	906+90.54	48.93	268612.2063	710688.6800
60531	906+57.48	50.00	268595.3338	710658.0154
60532	906+57.48	15.00	268626.8037	710642.6972
60541	907+73.92	-15.00	268710.7171	710728.6708
60542	909+95.06	-15.00	268833.7492	710912.4287



DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

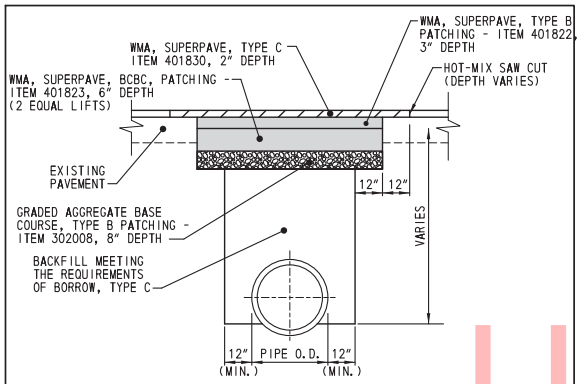
HSIP SUSSEX COUNTY US 9 PROJECTS

CONTRACT	BRIDGE NO.	N/A
T200800901	DESIGNED BY: J.L.R.	
COUNTY	CHECKED BY: R.R.W.	
SUSSEX		

GRADES & GEOMETRICS

SHEET NO.
64
TOTAL SHTS.
161

N:\31606-007\CADD\GDR\US9-Dairy.dgn
2/26/2013 2:12:47 PM

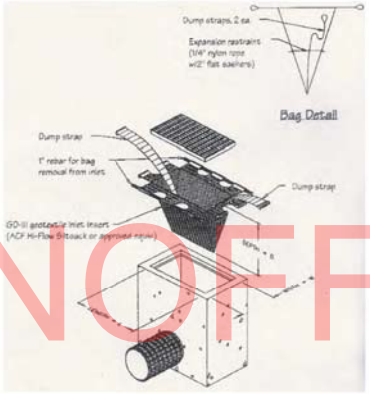


PAVEMENT PATCH AND PIPE TRENCH

NOT TO SCALE

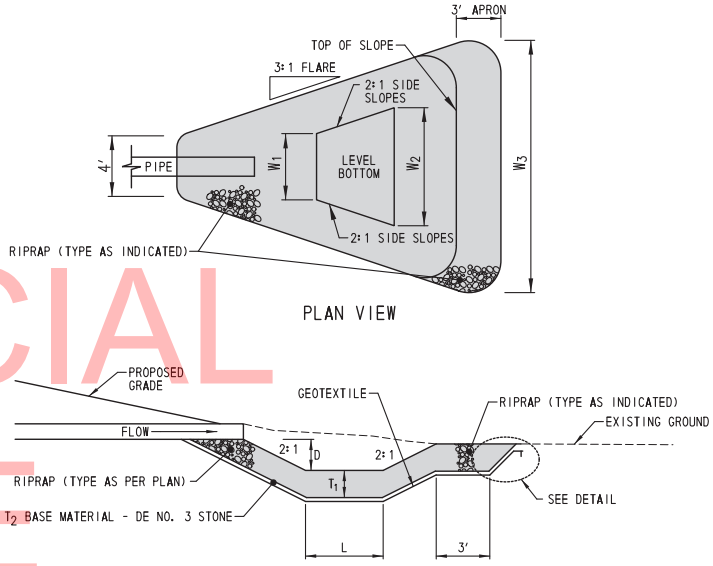
NOTES:

1. EXISTING HOT-MIX PAVEMENT MAY BE REMOVED BY A MILLING OPERATION. ALL HOT-MIX MATERIAL MUST BE REMOVED TO THE SAW CUT JOINTS PRIOR TO WMA PATCHING.
2. SEE STANDARD DETAILS FOR PIPE BEDDING.
3. THESE DETAILS SHOW MINIMUM PAVEMENT PATCH REQUIREMENTS. IF EXISTING ROADWAY HAS A HEAVIER CROSS SECTION, PROPOSED PAVEMENT PATCH WILL MATCH HEAVIER CROSS SECTION, OR AS DIRECTED BY THE ENGINEER.
4. NO ADDITIONAL PAYMENT SHALL BE MADE FOR PLACING GABC IN FLEXIBLE PAVEMENT SECTION BEYOND THAT MADE UNDER ITEM 302008 - GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING.



ITEM 252002 - INLET SEDIMENT CONTROL, AT-GRADE INLET

NOT TO SCALE

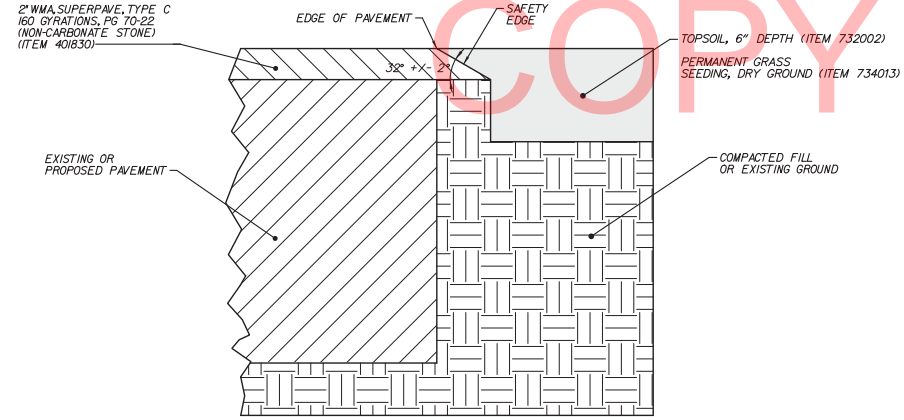


PIPE ENERGY DISSIPATER

NOT TO SCALE

LOCATION	RIPRAP SIZE	D	T_1	T_2*	W_1	W_2	W_3	L
STA. 401+98, LT	R-5	1.50'	20"	6"	3'	7'	16'	16'

* NO. 3 STONE



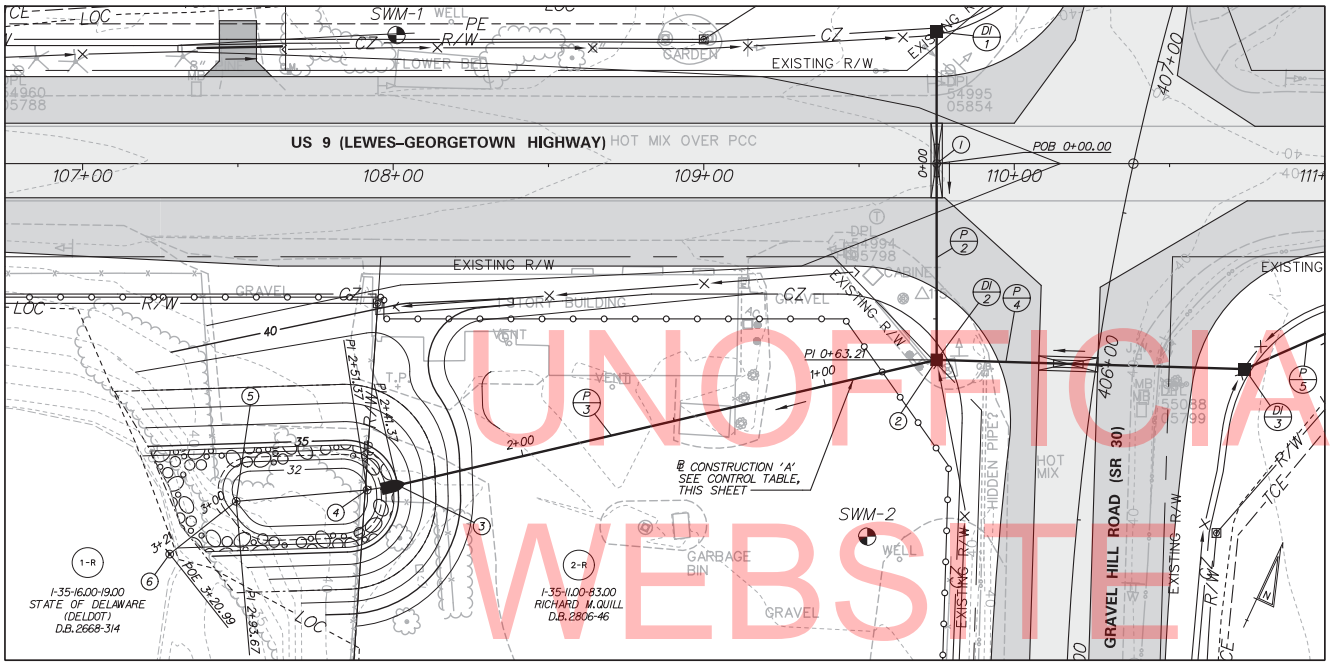
SAFETY EDGE

SCALE: NONE

UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\QTO\us9.dgn
2/28/2013 10:09:02 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE: AS SHOWN	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	CONSTRUCTION DETAILS	SHEET NO. 65
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		



SWM BMP NO. 593 - FOREBAY GRADING PLAN

FOREBAY CONSTRUCTION SEQUENCE AND NOTES:

THE FOREBAY SHALL FUNCTION AS A SEDIMENT BASIN DURING ROADWAY CONSTRUCTION AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF THE STANDARD SPECIFICATIONS:
SECTION 271 - STORMWATER MANAGEMENT POND

1. *CLEAR AND GRUB FOR INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS.*
2. *INSTALL PERIMETER SEDIMENT CONTROLS AS SHOWN ON THE CONSTRUCTION PHASING PLANS, MOT AND EROSION AND SEDIMENT CONTROL PLANS.*
3. *EXCAVATE THE FOREBAY AND CONSTRUCT RIPRAP ENERGY DISSIPATOR AT DOWNSTREAM END OF OUTLET PIPE. COMPLETE THE FOREBAY TO LINES, GRADES, AND DETAILS SHOWN IN THE GRADING PLAN.*
4. *OVEREXCAVATE THE BOTTOM OF THE FOREBAY 1 FOOT FOR SEDIMENT STORAGE.*
5. *STABILIZE ALL BARE AREAS WITH SEED AND MULCH.*

MAINTENANCE OF FOREBAY AS A SEDIMENT BASIN

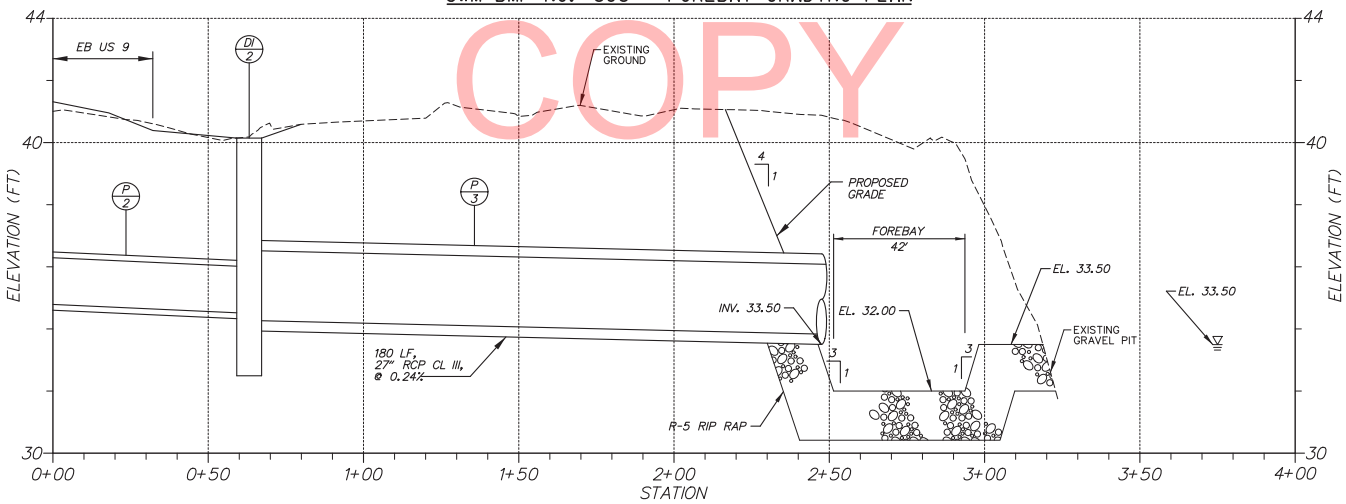
1. *CONTRACTOR SHALL INSPECT THE FOREBAY IMMEDIATELY AFTER EVERY RAIN AND MAKE REPAIRS AS NEEDED.*
2. *CONTRACTOR SHALL CLEARLY MARK THE CLEANOUT ELEVATION ON A STAKE DRIVEN INTO THE GROUND AT A LOCATION CLEARLY VISIBLE FROM THE EMBANKMENT. SEDIMENT SHALL BE REMOVED WHEN CLEANOUT ELEVATION IS REACHED AND DISPOSED OF AT A LOCATION APPROVED BY THE ENGINEER.*

CONVERSION TO PERMANENT FOREBAY

1. *REMOVE EXCESS ACCUMULATED SEDIMENT ON THE FOREBAY BOTTOM, IF ANY, TO THE SPECIFIED FINISHED LINES AND GRADES SHOWN IN THE PLAN AND DISPOSE SEDIMENT AT A LOCATION APPROVED BY THE ENGINEER. IF ELEVATION OF ACCUMULATED SEDIMENT IN FOREBAY BOTTOM IS BELOW THE PROPOSED FINISHED ELEVATION, ADDITIONAL FILL MATERIAL SHALL NOT BE PLACED IN THE FOREBAY.*
2. *COMPLETE STABILIZATION OF ALL BARE AREAS AND REMOVE EROSION AND SEDIMENT CONTROL MEASURES.*

GENERAL NOTE:

1. *SEDIMENT SHALL BE REMOVED FROM THE FOREBAY AT TIMES DETERMINED BY THE ENGINEER AND AT THE CONCLUSION OF THE PROJECT AFTER ALL AREAS DRAINING TO THE POND HAVE BEEN VEGETATIVELY STABILIZED. COST FOR SEDIMENT REMOVAL SHALL BE PAID FOR UNDER ITEM 251000 - SEDIMENT REMOVAL. ACCESS SHALL BE MAINTAINED TO ALL SEDIMENT REMOVAL CONTROL DEVICES REQUIRING MAINTENANCE UNTIL CONSTRUCTION PHASING AND VEGETATIVE STABILIZATION ALLOW THE REMOVAL OF THOSE CONTROLS, WHICH ARE NO LONGER REQUIRED.*
2. *THE CONTRACTOR SHALL PROVIDE "AS- BUILT" DRAWINGS OF ALL STORMWATER MANAGEMENT FACILITIES, SUCH AS PONDS, BIO FILTRATION SWALES, BIO -RETENTION AREAS, ETC. THE "AS- BUILT" DRAWINGS SHALL SHOW THE ACTUAL FINISHED GROUND CONTOURS, OUTLET STRUCTURE DIMENSIONS AND ELEVATIONS, ETC., AS THEY EXIST AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF DELAWARE. ALL "AS- BUILT" DRAWINGS SHALL BE SENT TO THE DELDOT STORMWATER ENGINEER. ALL COSTS FOR THIS WORK SHALL BE INCLUDED UNDER, ITEM 763501 - CONSTRUCTION ENGINEERING.*



PROFILE - BASELINE 'A'

℄ CONSTRUCTION 'A'				
NUMBER	STATION		NORTHING	EASTING
1	POB	0+00.00	260086.2326	684650.8369
2	PI	0+63.21	260028.9175	684677.4875
3	PI	2+41.37	259919.1539	684537.1535
4	PI	2+51.37	259913.5974	684528.8451
5	PI	2+93.67	259892.5152	684492.1717
6	POE	3+20.99	259868.0934	684479.9131

DELDOT SWM FACILITY NO. 593 FOREBAY DESIGN SUMMARY				
DESIGN STORM	FACILITY INFLOW (CFS)	FACILITY DISCHARGE (CFS)	WATER SUFACE ELEVATION (FT)	STORAGE VOLUME (AC-FT)
10 YEAR *	14.59	14.59	N/A	N/A

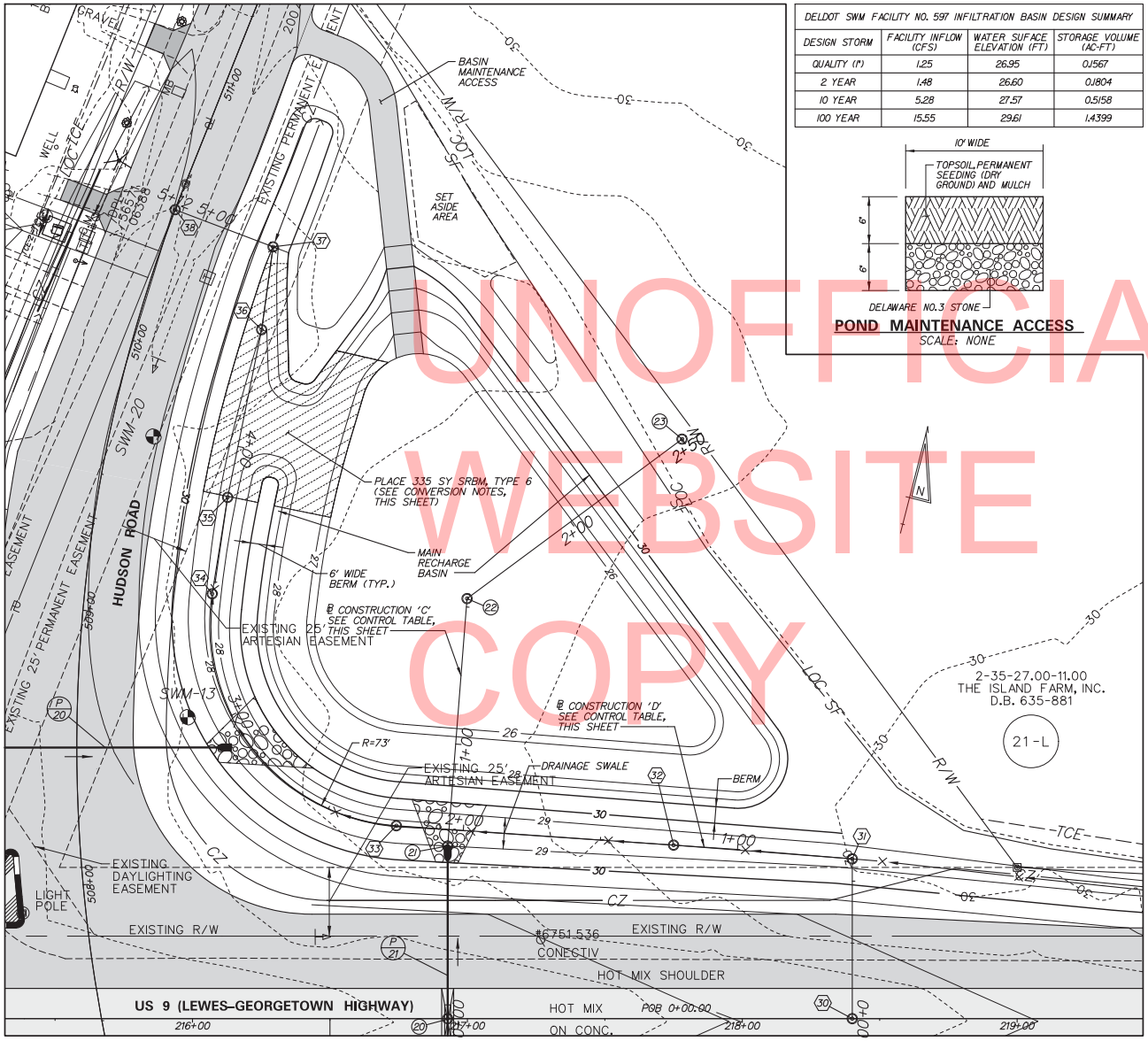
* STORM DRAIN

VERTICAL SCALE FEET: 0, 5, 10

UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\SWM\US9.dgn
2/26/2013 2:43:28 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 20 40 60 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	STORMWATER MANAGEMENT PLAN	SHEET NO. 66
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

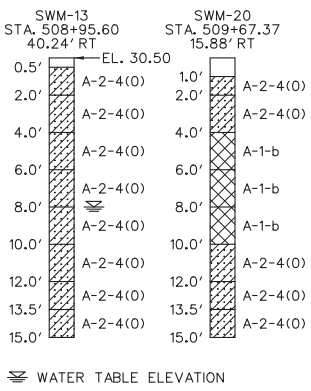


DELDOT SWM FACILITY NO. 597 INFILTRATION BASIN DESIGN SUMMARY			
DESIGN STORM	FACILITY INFLOW (CFS)	WATER SUFACE ELEVATION (FT)	STORAGE VOLUME (AC-FT)
QUALITY (1")	1.25	26.95	0.1567
2 YEAR	1.48	26.60	0.1804
10 YEAR	5.28	27.57	0.5158
100 YEAR	15.55	29.61	1.4399

POND MAINTENANCE ACCESS
SCALE: NONE

@ CONSTRUCTION 'C'			
NUMBER	STATION	NORTHING	EASTING
20	POB 0+00.00	265806.5183	700600.4083
21	PI 0+62.78	265867.3360	700584.8444
22	PI 1+53.07	265956.2869	700569.3607
23	POE 2+50.44	266031.8759	700630.7424

@ CONSTRUCTION 'D'			
NUMBER	STATION	NORTHING	EASTING
30	POB 0+00.00	265843.0071	700742.9924
31	PI 0+58.11	265899.3028	700728.5857
32	PI 1+23.30	265888.0400	700664.3733
33	PC 2+24.41	265869.8668	700564.9171
34	PT 3+45.58	265934.9981	700479.1017
35	PI 3+81.11	265970.3800	700475.8505
36	PI 4+43.32	266032.5163	700472.7243
37	PI 4+73.75	266062.7511	700469.2773
38	POE 5+11.85	266067.0176	700431.4253



SM FACILITY NO. 597
MAIN RECHARGE BASIN AND DRAINAGE SWALE SEQUENCE AND NOTES:
DELDOT SWM FACILITY NO. YYZ SHALL FUNCTION AS A SEDIMENT BASIN DURING ROADWAY CONSTRUCTION AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 271 - STORMWATER MANAGEMENT POND.

1. CLEAR AND GRUB FOR INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS.
2. INSTALL PERIMETER SEDIMENT CONTROLS AS SHOWN.
3. CLEAR AND GRUB REMAINING AREA FOR MAIN RECHARGE BASIN, SEDIMENT FOREBAY, AND FOREBAY CONSTRUCTION.
4. CONSTRUCT RIPRAP ENERGY DISSIPATORS AT PIPE OUTLETS, AS SHOWN.
5. CONSTRUCT THE FACILITY TO LINES AND GRADES SHOWN. EXCAVATE THE SEDIMENT FOREBAY AND MAIN RECHARGE BASIN TO A DEPTH ONE FOOT ABOVE THE PROPOSED FINAL BOTTOM ELEVATION AND CAP THE BOTTOM WITH 4" MINIMUM OF ITEM 209001 - BORROW, TYPE A.
6. STABILIZE ALL BARE AREAS.

MAINTENANCE OF MAIN RECHARGE BASIN AND SEDIMENT FOREBAY:

1. CONTRACTOR SHALL INSPECT THE MAIN RECHARGE BASIN AND SEDIMENT FOREBAY IMMEDIATELY AFTER EVERY RAIN AND MAKE REPAIRS AS NEEDED.
2. CONTRACTOR SHALL CLEARLY MARK THE CLEANOUT ELEVATION ON A STAKE DRIVEN INTO THE GROUND AT A LOCATION CLEARLY VISIBLE FROM THE EMBANKMENT. SEDIMENT SHALL BE REMOVED WHEN CLEANOUT ELEVATION IS REACHED AND DISPOSED OF AT A LOCATION APPROVED BY THE ENGINEER.

CONVERSION TO PERMANENT STORMWATER MANAGEMENT FACILITY:

1. CONVERT THE BASIN INTO THE PERMANENT STORMWATER MANAGEMENT FACILITY AFTER ALL AREAS DRAINING TO THE BASIN HAVE BEEN PERMANENTLY STABILIZED AND THE ENGINEER HAS APPROVED THE CONVERSION.
2. REMOVE EXCESS ACCUMULATED SEDIMENT AND EXCAVATE THE FACILITY TO THE SPECIFIED FINISHED LINES AND GRADES SHOWN IN THE PLAN. DISPOSE OF SEDIMENT AT A LOCATION APPROVED BY THE ENGINEER.
3. SEED THE MAIN RECHARGE BASIN AND SEDIMENT FOREBAY UP TO ELEVATION 28.00 WITH PERMANENT SEEDING, WET GROUND (ITEM 734015).
4. SEED THE REMAINING PORTION OF THE MAIN RECHARGE BASIN, SEDIMENT FOREBAY AND AREA ABOVE ELEVATION 28.00 WITH PERMANENT SEEDING, DRY GROUND (ITEM 734013).
5. PLACE SRBM, TYPE 6 WITHIN HATCHED AREA SHOWN ON PLAN.
6. REMOVE EROSION AND SEDIMENT CONTROL MEASURES.

GENERAL NOTES:

1. NO EQUIPMENT SHALL RIDE OVER, AND NO MATERIALS SHALL BE STORED IN THE AREA OF ANY INFILTRATION BMP.
2. THE CONTRACTOR SHALL PROVIDE "AS-BUILT" DRAWINGS OF ALL STORMWATER MANAGEMENT FACILITIES, SUCH AS PONDS, BIOFILTRATION SWALES, BIO-RETENTION AREAS, ETC. THE "AS-BUILT" DRAWINGS SHALL SHOW THE ACTUAL FINISHED GROUND CONTOURS, OUTLET STRUCTURE DIMENSIONS AND ELEVATIONS, ETC., AS THEY EXIST AS THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL BE SIGNED AS SEALED BY A PROFESSIONAL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF DELAWARE. ALL "AS-BUILT" DRAWINGS SHALL BE SENT TO THE DELDOT STORMWATER ENGINEER. ALL COSTS FOR THIS WORK SHALL BE INCLUDED UNDER ITEM 763501 - CONSTRUCTION ENGINEERING.
3. STORMWATER MANAGEMENT PONDS SERVING AS TEMPORARY SEDIMENT BASINS DURING CONSTRUCTION SHALL HAVE SEDIMENT REMOVED AT TIMES DETERMINED BY THE ENGINEER AND AS THE CONCLUSION OF THE PROJECT AFTER ALL AREAS DRAINING TO THE POND HAVE BEEN VEGETATIVELY STABILIZED. COST FOR SEDIMENT REMOVAL SHALL BE PAID FOR UNDER ITEM 250000 - SEDIMENT REMOVAL, ACCESS SHALL BE MAINTAINED TO ALL SEDIMENT REMOVAL CONTROL DEVICES REQUIRING MAINTENANCE UNTIL CONSTRUCTION PHASING AND VEGETATIVE STABILIZATION ALLOW THE REMOVAL OF THOSE CONTROLS, WHICH ARE NO LONGER REQUIRED.

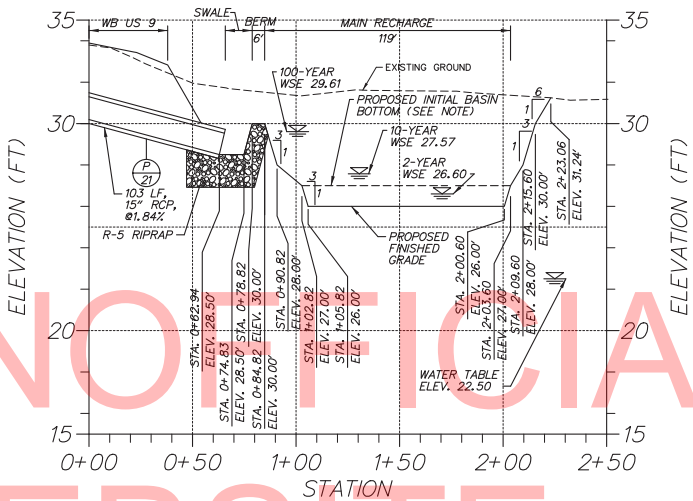
PLAN - SWM FACILITY NO. 597

UNOFFICIAL WEBSITE COPY

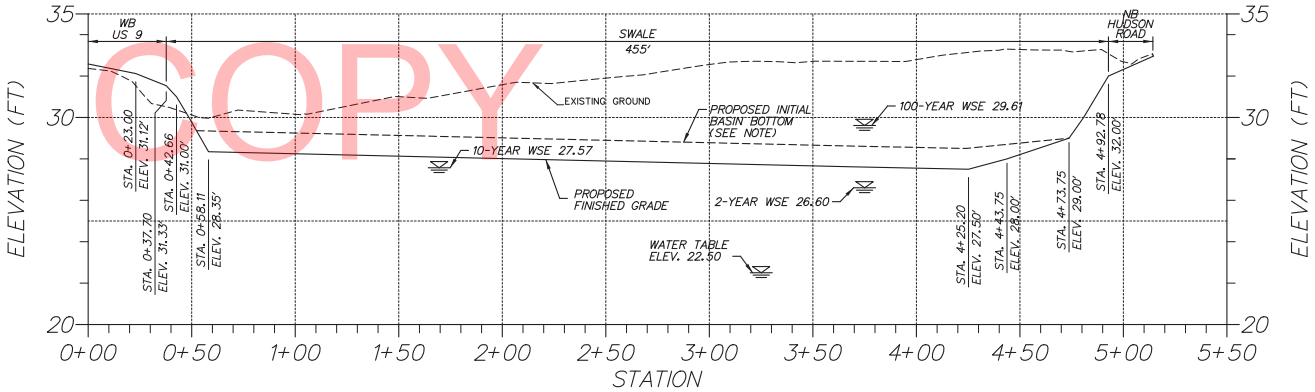
N:\31606-007\CADD\SW02\s59.dgn
2/26/2013 2:43:38 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 20 40 60 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	STORMWATER MANAGEMENT PLAN	SHEET NO. 67
				COUNTY SUSSEX	DESIGNED BY: J.L.R. CHECKED BY: R.R.W.		TOTAL SHTS. 161

NOTE:
SEDIMENT FOREBAY AND MAIN RECHARGE BASIN SHALL BE EXCAVATED TO A DEPTH ONE FOOT ABOVE PROPOSED FINAL BOTTOM ELEVATION AND CAPPED. SEE SEQUENCE AND NOTES ON STORMWATER MANAGEMENT PLAN.



PROFILE – SWM BMP NO. 597 – BASELINE C



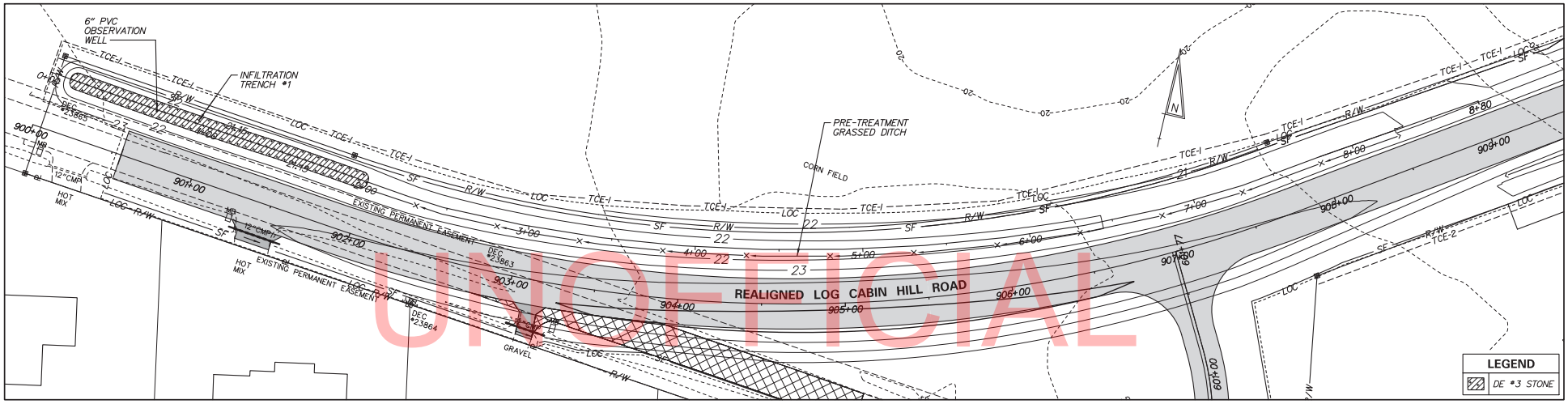
PROFILE – SWM BMP NO. 597 – BASELINE D

VERTICAL SCALE FEET
10
5
0

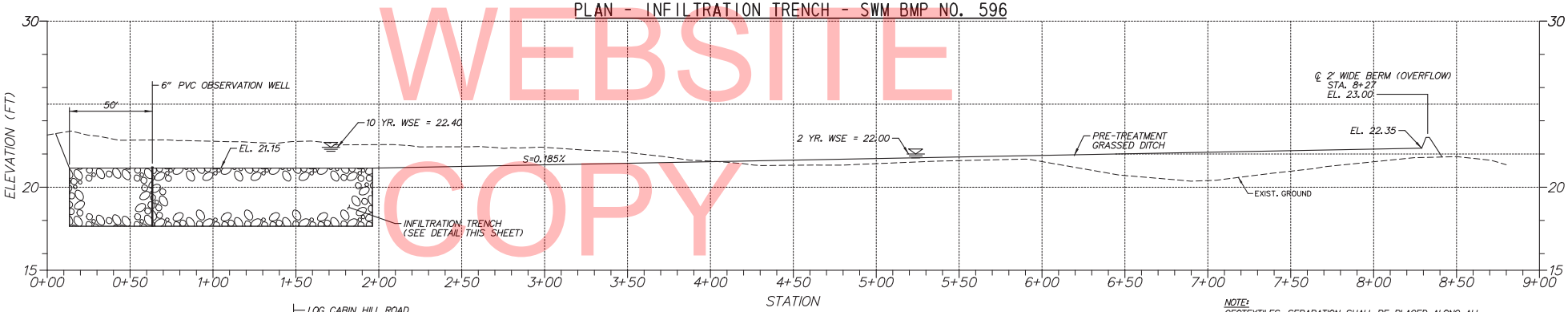
UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\SW03US9.dgn
2/26/2013 2:13:43 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	STORMWATER MANAGEMENT PLAN	SHEET NO. 68
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

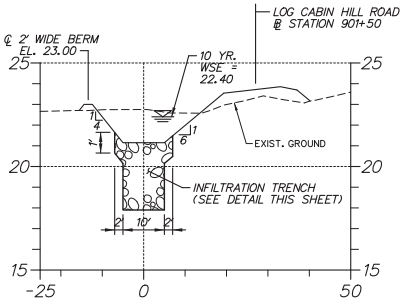


PLAN - INFILTRATION TRENCH - SWM BMP NO. 596

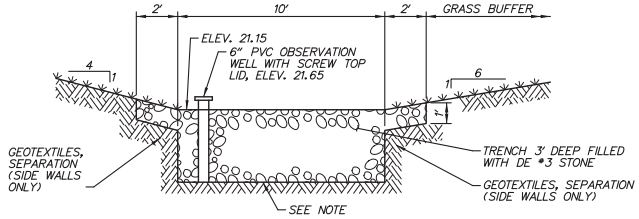


PROFILE - INFILTRATION TRENCH - SWM BMP NO. 596

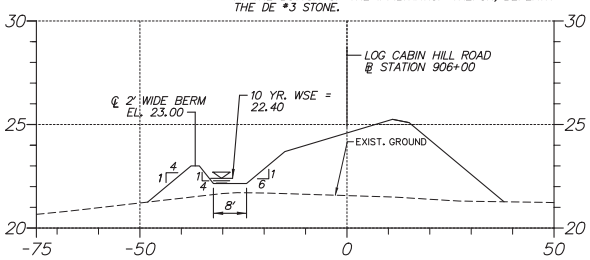
NOTE:
GEOTEXTILES, SEPARATION SHALL BE PLACED ALONG ALL INFILTRATION TRENCH WALLS AND 2-FOOT WINGS, BUT NOT AT THE BOTTOM OF THE INFILTRATION TRENCH, BENEATH THE DE #3 STONE.



SECTION @ STA. 901+50
SCALE: 1" = 15'



INFILTRATION TRENCH TYPICAL SECTION
NOT TO SCALE

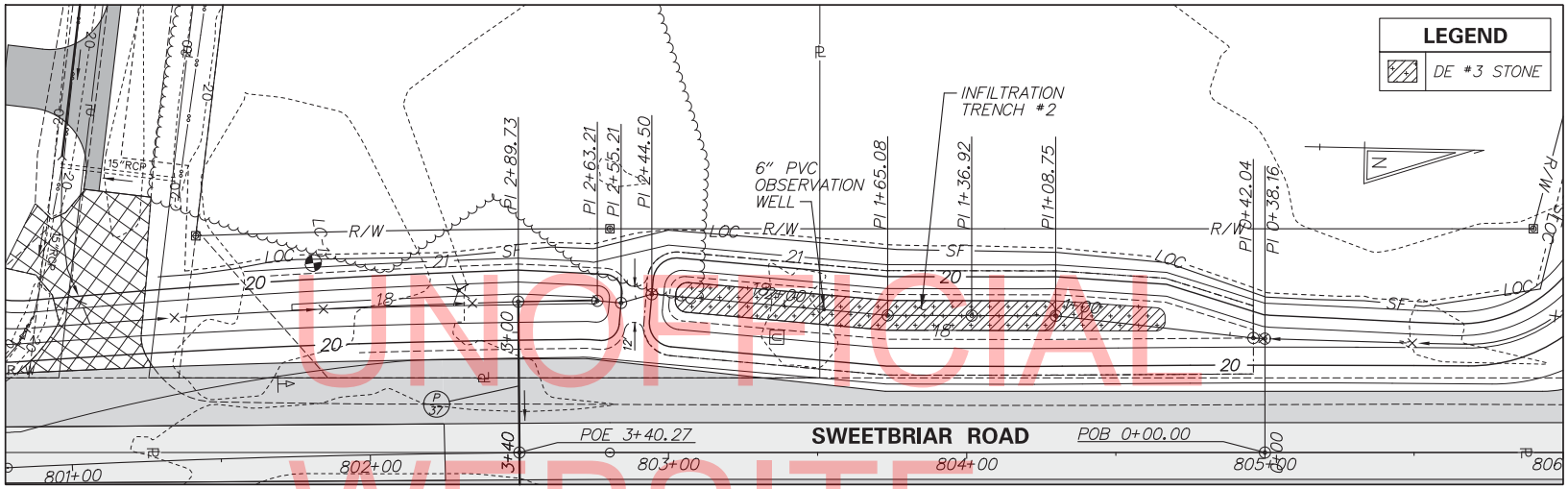


SECTION @ STA. 906+00
SCALE: 1" = 15'

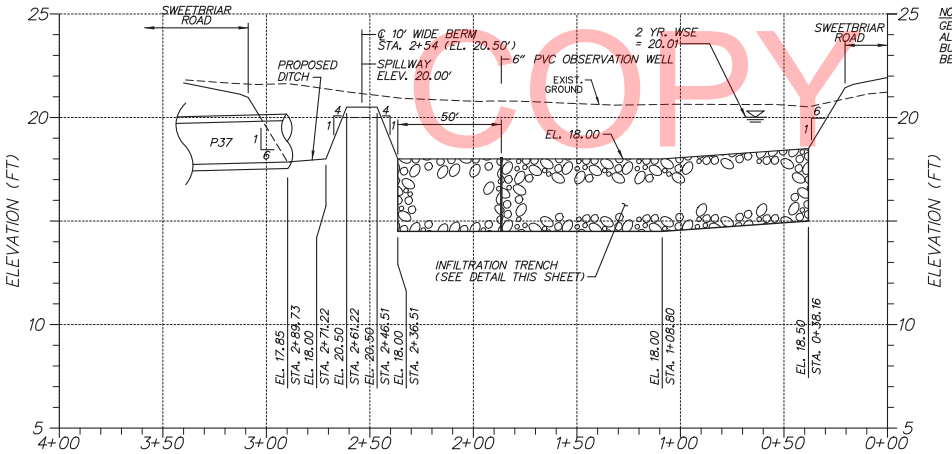
UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\SW04459.dgn
2/26/2013 2:14:02 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	STORMWATER MANAGEMENT PLAN	SHEET NO. 69
				COUNTY SUSSEX	DESIGNED BY: J.L.R.		TOTAL SHTS. 161
					CHECKED BY: R.R.W.		

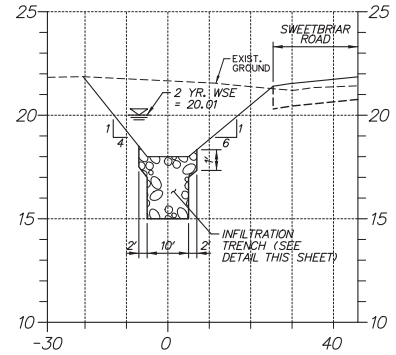


PLAN - INFILTRATION TRENCH - SWM BMP NO. 595

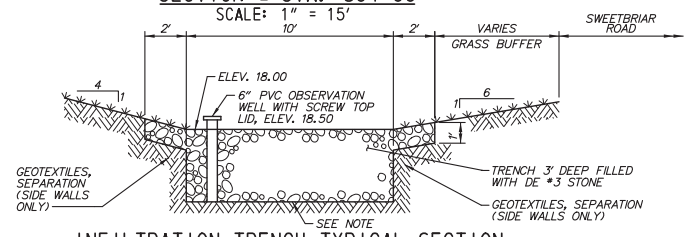


PROFILE - INFILTRATION TRENCH - SWM BMP NO. 595
SCALE: 1" = 30'

NOTE:
GEOTEXTILES, SEPARATION SHALL BE PLACED ALONG ALL INFILTRATION TRENCH WALLS AND 2-FOOT WINGS, BUT NOT AT THE BOTTOM OF THE INFILTRATION TRENCH, BENEATH THE DE #3 STONE.



SECTION @ STA. 804+00
SCALE: 1" = 15'

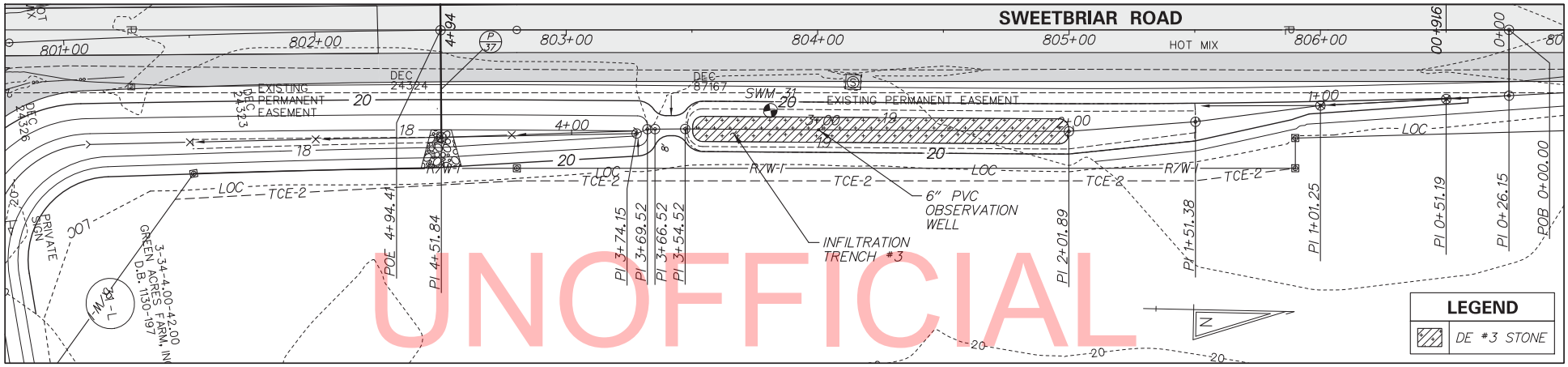


INFILTRATION TRENCH TYPICAL SECTION
NOT TO SCALE

UNOFFICIAL WEBSITE COPY

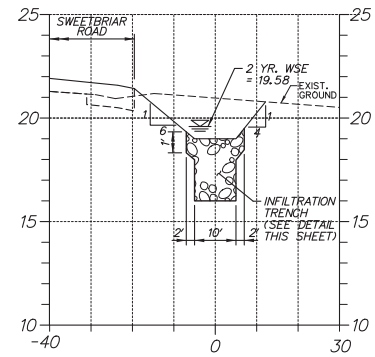
N:\31606-007\CADD\SW05\s59.dgn
2/26/2013 2:14:15 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 20 40 60 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901 / COUNTY SUSSEX	BRIDGE NO. N/A / DESIGNED BY: J.L.R. / CHECKED BY: R.R.W.	STORMWATER MANAGEMENT PLAN	SHEET NO. 70 / TOTAL SHTS. 161

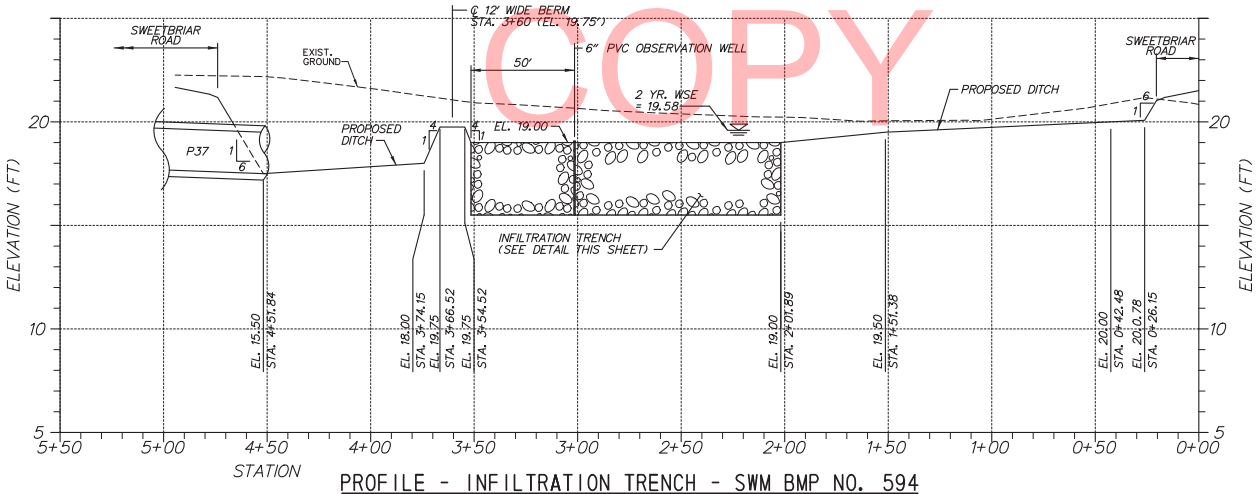


PLAN - INFILTRATION TRENCH - SWM BMP NO. 594

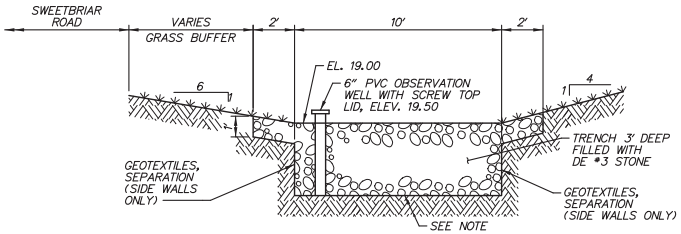
NOTE:
GEOTEXTILES, SEPARATION SHALL BE PLACED ALONG ALL INFILTRATION TRENCH WALLS AND 2' - FOOT WINGS, BUT NOT AT THE BOTTOM OF THE INFILTRATION TRENCH, BENEATH THE DE #3 STONE.



SECTION @ STA. 804+50
SCALE: 1" = 15'



PROFILE - INFILTRATION TRENCH - SWM BMP NO. 594
SCALE: 1" = 30'



INFILTRATION TRENCH TYPICAL SECTION
NOT TO SCALE

UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\SW06US9.dgn
2/26/2013 2:14:31 PM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 20 40 60 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901 / COUNTY SUSSEX	BRIDGE NO. N/A / DESIGNED BY: J.L.R. / CHECKED BY: R.R.W.	STORMWATER MANAGEMENT PLAN	SHEET NO. 71 / TOTAL SHTS. 161

WARNING SIGNS

1. "ROAD WORK" (W20-1 SERIES) WARNING SIGNS SHALL BE INSTALLED AS DEPICTED ON THE PERMANENT WARNING SIGN LOCATION PLANS. WARNING SIGNS USED FOR LONG-TERM STATIONARY CONSTRUCTION PHASES, SUCH AS "LANE SHIFT 1000 FT" AND REVERSE CURVE (W1-4 SERIES), SHALL BE POST MOUNTED ON NCHRP REPORT 350 OR MASH APPROVED BREAKAWAY SUPPORTS. AS DENOTED ON THE PERMANENT WARNING SIGN LOCATION PLANS, TEMPORARY WARNING SIGN SUPPORTS SHALL NOT BE USED FOR PERMANENT WARNING SIGNS OR LONG-TERM STATIONARY WARNING SIGNS UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR DELDOT TRAFFIC.

2. WHEN CONFLICTS EXIST BETWEEN THE "ROAD WORK" (W20-1 SERIES) PERMANENT WARNING SIGNS AND LONG-TERM STATIONARY WARNING SIGNS, THE "ROAD WORK" SIGNS SHALL BE COVERED OR RELOCATED AS DIRECTED BY THE ENGINEER OR DELDOT TRAFFIC.

PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS

3. ALL TEMPORARY LONGITUDINAL PAVEMENT MARKINGS SHALL CONSIST OF 4" WIDE RETROREFLECTIVE PAINT OR REMOVABLE RETROREFLECTIVE TAPE. ALL TEMPORARY TRANSVERSE PAVEMENT MARKINGS (STOP LINES) SHALL CONSIST OF 16" WIDE RETROREFLECTIVE PAINT OR REMOVABLE RETROREFLECTIVE TAPE. ALL PERMANENT PAVEMENT MARKINGS THAT ARE NO LONGER APPLICABLE AND CONFLICT WITH THE TEMPORARY PAVEMENT MARKINGS IN USE BY THE TRAVELING PUBLIC SHALL BE REMOVED OR OBLITERATED UNDER ITEM 748530 - REMOVAL OF PAVEMENT STRIPING. THE OBLITERATION METHOD SHALL MINIMIZE PAVEMENT SCARRING AND PAINTING OVER THE CONFLICTING PAVEMENT MARKINGS WITH BLACK PAINT (OR SIMILAR) SHALL NOT BE ACCEPTED AS A SUBSTITUTE FOR REMOVAL OR OBLITERATION. REMOVABLE, NON-REFLECTIVE 6" WIDE BLACKOUT TAPE THAT IS APPROXIMATELY THE SAME COLOR AS THE PAVEMENT SURFACE MAY BE USED WHERE MARKINGS NEED TO BE COVERED TEMPORARILY. MAINTENANCE OF TRAFFIC DURING THE INSTALLATION AND REMOVAL OF THE TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL CONFORM TO TA-10 OF THE DELAWARE MUTCD.

4. ALL RAISED PAVEMENT MARKER (RPM) REFLECTIVE LENSES THAT ARE NO LONGER APPLICABLE AND CONFLICT WITH THE TEMPORARY PAVEMENT MARKINGS IN USE BY THE TRAVELING PUBLIC SHALL BE REMOVED AND THE REMOVAL SHALL BE INCIDENTAL TO ITEM 748502 - TEMPORARY RAISED PAVEMENT MARKERS. MAINTENANCE OF TRAFFIC DURING THE REMOVAL OF THE RPM LENSES SHALL CONFORM TO TA-10 OF THE DELAWARE MUTCD.

5. TEMPORARY RPMS SHALL BE INSTALLED ALONG THE TEMPORARY DOUBLE YELLOW CENTER LINE ALONG US 9 AND THE INTERSECTING STATE-MAINTAINED SIDE ROADS IN ACCORDANCE WITH FIGURE 3B-15D OF THE DELAWARE MUTCD. THE TEMPORARY RPMS SHALL BE ASTRO OPTICS MODEL TRM OR AN APPROVED EQUAL. MAINTENANCE OF TRAFFIC DURING THE INSTALLATION AND REMOVAL OF THE TEMPORARY RPMS SHALL CONFORM TO TA-10 OF THE DELAWARE MUTCD.

TRAFFIC OFFICERS, FLAGGERS, AND PROJECT COORDINATION

6. A TRAFFIC OFFICER SHALL BE REQUIRED DURING ALL CONSTRUCTION PHASE SETUPS AND CHANGES ALONG US 9 AND DURING ALL NIGHT WORK ACTIVITIES ALONG US 9. DURING WORK ACTIVITIES THAT TEMPORARILY DISABLE "STOP-AND-GO" OPERATIONS AT THE TRAFFIC SIGNALS AT SR 30 AND ROAD 261, A MINIMUM OF TWO (2) TRAFFIC OFFICERS SHALL BE USED TO DIRECT TRAFFIC THROUGH THE INTERSECTIONS IN ACCORDANCE WITH DELDOT'S GUIDELINES FOR THE USE OF UNIFORMED LAW ENFORCEMENT OFFICERS IN WORK ZONES. TEMPORARY INTERSECTION CLOSURES SHALL NOT EXCEED 15 MINUTES AND SHALL ONLY BE PERFORMED DURING THE PERMITTED TIME PERIODS LISTED IN NOTE 18.

7. IF WORK ZONE ACTIVITIES REQUIRE FLAGGER CONTROL TO ASSIST WORK VEHICLES ENTERING OR EXITING THE WORK ZONE, THEN FLAGGER (W20-7) OR "FLAGGER AHEAD" (W20-7-DE) SIGNS SHALL BE DISPLAYED TO APPROACHING TRAFFIC AND ALL FLAGGER STATIONS SHALL BE ILLUMINATED AT NIGHT.

8. FLAGGER CONTROL SHALL BE PROVIDED DURING THE PHASE 4A AND PHASE 7 ROAD CLOSURES TO PROVIDE FULL ACCESS TO RESIDENTIAL DRIVEWAYS LOCATED WITHIN THE ROAD CLOSURE AREA AND TO ASSIST LOCAL RESIDENTS THROUGH THE WORK ZONE. THE CONTRACTOR OR THE ENGINEER SHALL COORDINATE THE ROAD CLOSURES WITH THE AFFECTED PROPERTY OWNERS A MINIMUM OF THREE (3) DAYS IN ADVANCE OF THE ROAD CLOSURE.

9. THE CONTRACTOR OR ENGINEER SHALL INFORM DELDOT'S TRANSPORTATION MANAGEMENT CENTER (TMC) AT 302-659-4600 OF ALL WORK ACTIVITIES THAT AFFECT "STOP-AND-GO" OPERATIONS AT THE TRAFFIC SIGNALS AT SR 30 AND ROAD 261.

10. THE CONTRACTOR OR ENGINEER SHALL CONTACT MELODY PETERS (AT 302-222-5920 OR 302-760-2565) OF DELDOT'S SIGNAL CONSTRUCTION SECTION A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF ALL WORK ACTIVITIES THAT REQUIRE COORDINATION WITH DELDOT'S TRAFFIC CONTRACTOR, INCLUDING THE INSTALLATION, REMOVAL, OR RELOCATION OF TRAFFIC POLES, SIGNAL HEADS, SIGNAL CABINETS, SPAN WIRES, AND ELECTRICAL CABLES. LANE SHIFTS DURING PHASES 1 - 3 AND 6 - 8 WILL REQUIRE THE RELOCATION OF SIGNAL HEADS BY DELDOT'S TRAFFIC CONTRACTOR, AS DENOTED AS "TEMPORARY" ON THE SIGNAL PLANS AND AS DIRECTED BY DELDOT TRAFFIC.

11. THE CONTRACTOR SHALL PROVIDE MOT FOR DELDOT'S TRAFFIC CONTRACTOR DURING ALL APPLICABLE CONSTRUCTION PHASES.

PORTABLE CHANGEABLE MESSAGE SIGNS

12. IN ADDITION TO THE LOCATIONS DEPICTED ON THE DETOUR PLANS, PORTABLE CHANGEABLE MESSAGE SIGNS (ITEM 743004) SHALL ALSO BE POSTED TEN (10) DAYS PRIOR TO EACH CONSTRUCTION PHASE CHANGE (OR AT THE DISCRETION OF DELDOT SAFETY) ALONG EASTBOUND AND WESTBOUND US 9 AT/NEAR THE CORRESPONDING INTERSECTIONS TO INFORM MOTORISTS OF NEW TRAFFIC PATTERNS.

OTHER MOT DEVICES

13. A TRUCK-MOUNTED ATTENUATOR (TMA), TYPE 2 (ITEM 743010) SHALL BE REQUIRED WHEN TRAFFIC IS PRESENT DURING ALL ACTIVE WORK ACTIVITIES WITHIN 10 FEET OF THE EDGE OF THE TRAVELED WAY ALONG US 9 AND THE INTERSECTING STATE-MAINTAINED SIDE ROADS, INCLUDING BUT NOT LIMITED TO:
   - CONSTRUCTION PHASE SETUPS AND CHANGES
   - ROADWAY WIDENING
   - INSTALLATION AND REMOVAL OF PERMANENT AND TEMPORARY PAVEMENT MARKINGS AND RPMS
   - HOT-MIX MILLING AND OVERLAY
   - AS DIRECTED BY THE ENGINEER

14. THE TMA ROLL-AHEAD DISTANCE SHALL BE BASED ON THE MANUFACTURER'S RECOMMENDATIONS AND THE TMA SHALL CONFORM TO THE REQUIREMENTS OF SECTION 6F.86 OF THE DELAWARE MUTCD.

15. TYPE 3 BARRICADES USED AT THE DETOUR DIVERSION POINTS ALONG THE PHASE 4A, 5, AND 7 DETOUR ROUTES SHALL NOT EXTEND INTO THE TRAVELED WAY SUCH THAT MOTORISTS ARE FORCED TO TRAVEL IN THE OPPOSING (CONFLICTING) TRAVEL LANE. TYPE 3 BARRICADES USED AT THE POINTS OF FULL ROAD CLOSURE DURING PHASES 4A, 5, AND 7 SHALL EXTEND ACROSS THE ENTIRE ROADWAY FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT.

16. 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.

17. GRADING AND MAINTAINING BASE COURSE THAT IS BEING USED AS A TEMPORARY 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 SEPARATE 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 DIVERSION WOULD BE ELIGIBLE FOR PAYMENT AS SPECIFIED IN THE CONTRACT.

WORK HOUR RESTRICTIONS AND TRAFFIC CONTROL CASES

18. TRAFFIC IMPACTS ON US 9 DUE TO CONSTRUCTION ACTIVITY SHALL BE GOVERNED BY THE FOLLOWING RESTRICTIONS:

   NON-SUMMER (OCT. 1 TO MAY 15):
   * THERE SHALL BE NO LANE CLOSURES BETWEEN 7 AM AND 6 PM MONDAY THROUGH FRIDAY
   * THERE SHALL BE NO LANE CLOSURES FROM 7 AM FRIDAY THROUGH 8 PM SUNDAY
   * LANE SHIFTS, PROVIDED TWO LANES OF TRAFFIC (ONE IN EACH DIRECTION) ARE MAINTAINED, SHALL BE ALLOWED 24 HOURS AROUND THE CLOCK ALL 7 DAYS OF THE WEEK

   SUMMER (MAY 16 TO SEPT. 30)
   * LANE CLOSURES SHALL BE ALLOWED ONLY BETWEEN 6 PM AND 7 AM EACH DAY, MONDAY NIGHT THROUGH FRIDAY MORNING
   * LANE SHIFTS, PROVIDED TWO LANES OF TRAFFIC (ONE IN EACH DIRECTION) ARE MAINTAINED, SHALL BE ALLOWED 24 HOURS AROUND THE CLOCK FROM 8 AM MONDAY THROUGH 3 PM FRIDAY
   * TRAFFIC IMPACTS (E.G., LANE CLOSURES, SHIFTS, FLAGGING, DIVERSIONS, OR SHOULDER CLOSURES) WILL NOT BE PERMITTED FROM 3 PM FRIDAY THROUGH 8 AM MONDAY

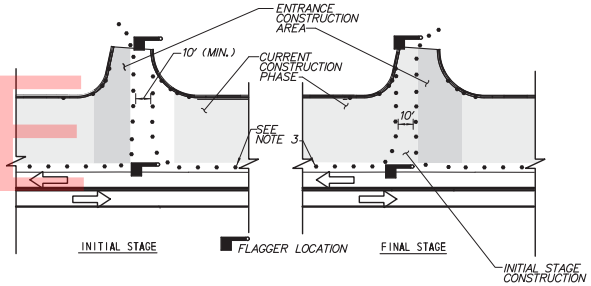
19. ALL CONSTRUCTION PHASE SETUPS AND CHANGES ALONG US 9 AND THE INTERSECTING STATE-MAINTAINED SIDE ROADS SHALL BE PERFORMED IN ACCORDANCE WITH TA-10 OF THE DELAWARE MUTCD.

20. WORK ACTIVITIES REQUIRING THE FULL CLOSURE OF HUDSON ROAD SHALL BE IN ACCORDANCE WITH THE PLANS FOR PHASE 4A, INCLUDING THE CORRESPONDING PHASE 4A DETOUR PLAN.

21. WORK ACTIVITIES REQUIRING THE FULL CLOSURE OF FISHER ROAD SHALL BE IN ACCORDANCE WITH THE PLANS FOR PHASE 5, INCLUDING THE CORRESPONDING PHASE 5 DETOUR PLAN.

22. WORK ACTIVITIES REQUIRING THE FULL CLOSURE OF LOG CABIN HILL ROAD SHALL BE IN ACCORDANCE WITH THE PLANS FOR PHASE 7, INCLUDING THE CORRESPONDING PHASE 7 DETOUR PLAN.

23. THIS PROJECT IS CONSIDERED A SIGNIFICANT PROJECT AS DEFINED BY DELDOT'S WORK ZONE SAFETY AND MOBILITY - PROCEDURES AND GUIDELINES. A TYPE "B" TRANSPORTATION MANAGEMENT PLAN (TMP) HAS BEEN PREPARED AND IS AVAILABLE FOR VIEWING BY CONTACTING DELDOT'S SAFETY PROGRAMS MANAGER AT 302-659-4060. ALL MONITORING REQUIREMENTS OF THE TMP SHALL BE CONDUCTED BY DELDOT FORCES UNLESS OTHERWISE DIRECTED BY THE ENGINEER. MODIFICATIONS TO THE TMP SHALL BE COMPLETED BY THE CONTRACTOR IF CHANGES TO THE TIME RESTRICTIONS OR THE TRAFFIC CONTROL PLAN ARE DESIRED. THE MODIFIED TMP SHALL BE PREPARED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF DELAWARE.



TYPICAL DRIVEWAY/ ENTRANCE RECONSTRUCTION
NOT TO SCALE

NOTES:

1. THIS DETAIL PROVIDES THE PROPER TRAFFIC CONTROL DEVICES AT DRIVEWAYS AND ENTRANCES THAT ARE TO BE BUILT IN HALF-SECTION UNDER FLAGGER CONTROL. APPLICATION OF THIS DETAIL SHALL BE AS INDICATED ON THE PLANS, DURING DAYLIGHT HOURS ONLY, OR AS DIRECTED BY THE ENGINEER. TRAFFIC CONTROL DEVICES AT ENTRANCES SHALL BE RESET TO MAIN PHASE AT END OF EACH WORKING DAY.

2. CHANNELIZATION THROUGH ENTRANCE AREA SHALL BE ACCOMPLISHED WITH DRUMS PLACED AT 10' BETWEEN THE EDGES OF THE DRUMS IMMEDIATELY ADJACENT TO THE TRAVELED WAY, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. DRUM LAYOUT SHALL ACCOMMODATE LARGEST DESIGN VEHICLE EXPECTED TO USE ENTRANCE.

3. TRAFFIC CONTROL DEVICES ALONG MAINLINE ROADWAY SHALL BE AS SHOWN ON CONSTRUCTION PHASING PLANS.

4. DEPENDING ON TRAFFIC VOLUME UTILIZING ENTRANCE AND OTHER SITE-SPECIFIC CONDITIONS, THE NUMBER OF FLAGGERS USED DURING ENTRANCE CONSTRUCTION MAY BE REDUCED FROM 2 TO 1, SUBJECT TO APPROVAL OF ENGINEER.

UNOFFICIAL WEBSITE COPY

WARNING SIGN LEGEND

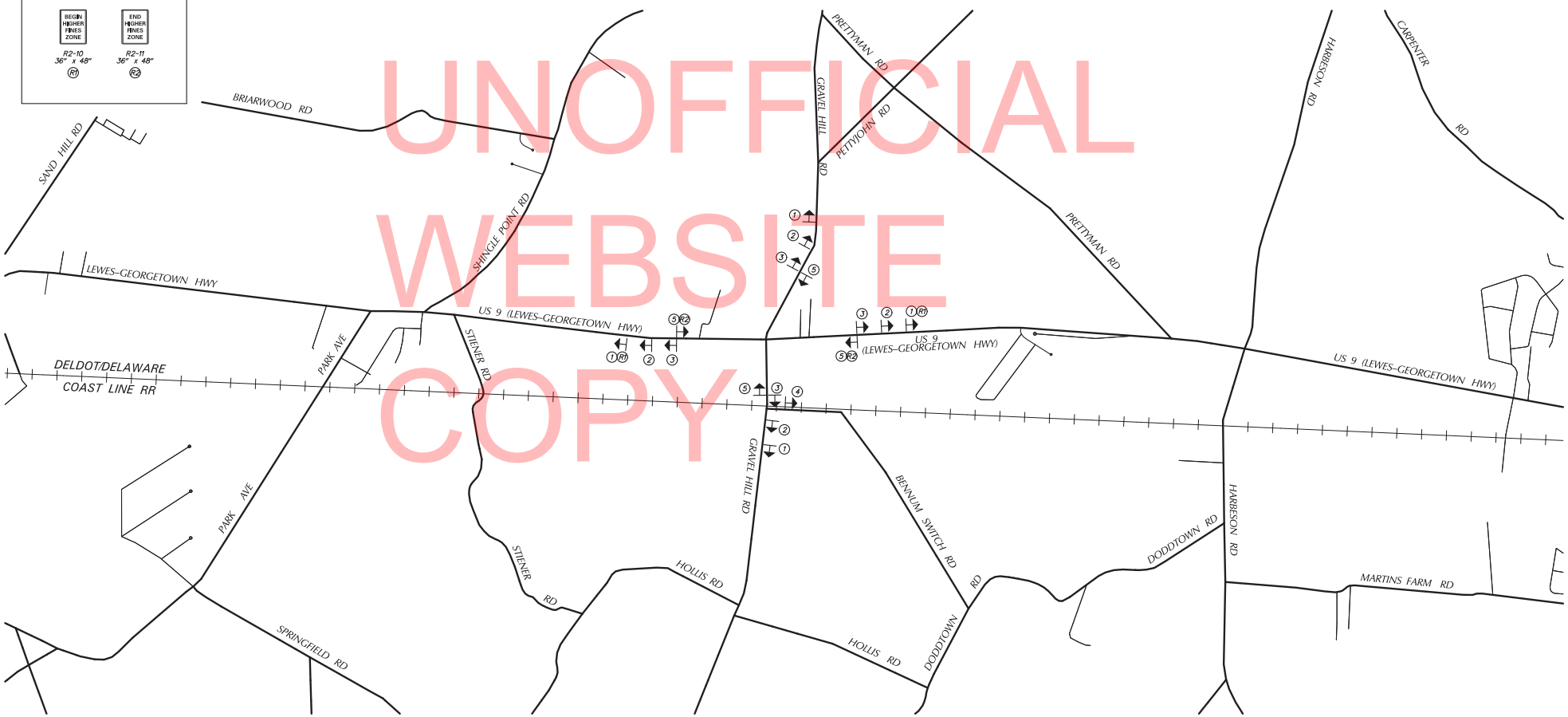
ROAD WORK 1000 FEET	ROAD WORK 2000 FEET	ROAD WORK 500 FEET	ROAD WORK AHEAD	END ROAD WORK
W20-1 48" x 48" (1)	W20-1 48" x 48" (2)	W20-1 48" x 48" (3)	W20-1 48" x 48" (4)	G20-2 48" x 24" (5)

REGULATORY SIGN LEGEND

BEGIN HIGHER FINES ZONE	END HIGHER FINES ZONE
R2-10 36" x 48" (R1)	R2-11 36" x 48" (R2)

NOTES:

1. SEE INDIVIDUAL PHASING PLANS FOR PLACEMENT OF ADDITIONAL WARNING SIGNS. LOCATION OF ALL PERMANENT WARNING SIGNS SHALL BE COORDINATED WITH THE ENGINEER.
2. ANY EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION WARNING SIGNS SHALL BE COVERED OR RELOCATED, AS DIRECTED BY THE ENGINEER.
3. ALL PERMANENT WARNING SIGNS SHALL BE POST MOUNTED ON NCHRP REPORT 350 OR MASH APPROVED BREAKAWAY SUPPORTS UNLESS OTHERWISE NOTED ON THESE PLANS, AS DIRECTED BY THE ENGINEER, OR ONE OF THE FOLLOWING CONDITIONS APPLY:
   1) A UTILITY CONFLICT EXISTS THAT PREVENTS THE BREAKAWAY SUPPORTS FROM BEING DRIVEN INTO THE GROUND (ALL UTILITY CONFLICTS MUST BE VERIFIED BY THE INSPECTOR), OR
   2) MATERIAL OTHER THAN COMMON EARTH, SUCH AS CONCRETE, HOT MIX ASPHALT, BRICK, ETC. PREVENTS DRIVING THE POSTS AND SUPPORTS INTO THE GROUND.



UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\CS02U59-SR30.dgn
2/28/2013 7:45:23 AM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 1000 2000 3000 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	PERMANENT WARNING SIGN LOCATION PLAN PHASES 1–3	SHEET NO. 73
				COUNTY SUSSEX	DESIGNED BY: D.W.C.		TOTAL SHTS. 161
					CHECKED BY: M.J.B.		

WARNING SIGN LEGEND

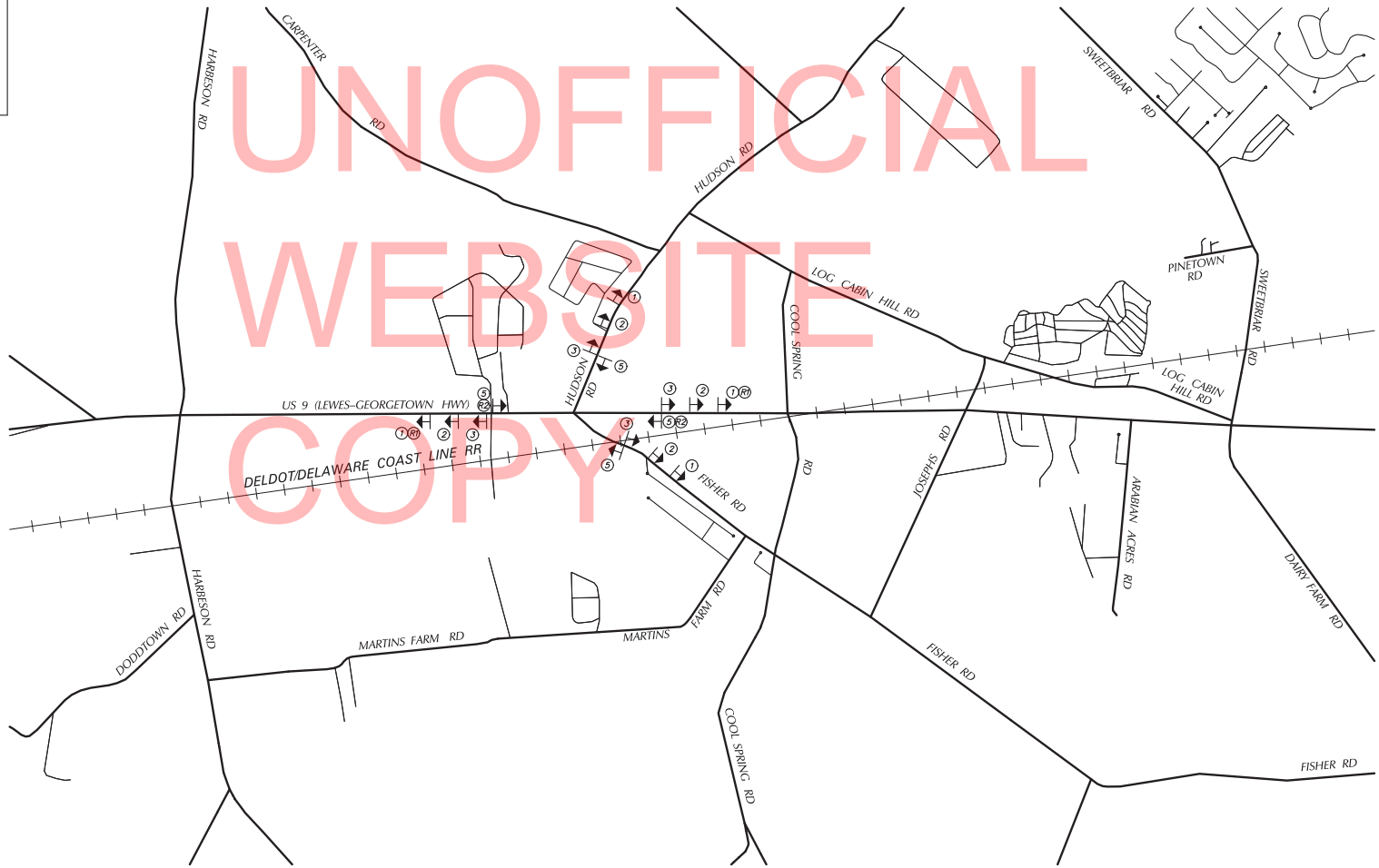
ROAD WORK 1000 FEET	ROAD WORK 2000 FEET	ROAD WORK 500 FEET	ROAD WORK AHEAD	END ROAD WORK
W20-1 48" x 48"	W20-1 48" x 48"	W20-1 48" x 48"	W20-1 48" x 48"	G20-2 48" x 24"
1	2	3	4	5

REGULATORY SIGN LEGEND

BEGIN HIGHER FINES ZONE	END HIGHER FINES ZONE
R2-10 36" x 48"	R2-11 36" x 48"
R1	R2

NOTES:

1. SEE INDIVIDUAL PHASING PLANS FOR PLACEMENT OF ADDITIONAL WARNING SIGNS. LOCATION OF ALL PERMANENT WARNING SIGNS SHALL BE COORDINATED WITH THE ENGINEER.
2. ANY EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION WARNING SIGNS SHALL BE COVERED OR RELOCATED, AS DIRECTED BY THE ENGINEER.
3. ALL PERMANENT WARNING SIGNS SHALL BE POST MOUNTED ON NCHRP REPORT 350 OR MASH APPROVED BREAKAWAY SUPPORTS UNLESS OTHERWISE NOTED ON THESE PLANS, AS DIRECTED BY THE ENGINEER, OR ONE OF THE FOLLOWING CONDITIONS APPLY:
   1) A UTILITY CONFLICT EXISTS THAT PREVENTS THE BREAKAWAY SUPPORTS FROM BEING DRIVEN INTO THE GROUND (ALL UTILITY CONFLICTS MUST BE VERIFIED BY THE INSPECTOR), OR
   2) MATERIAL OTHER THAN COMMON EARTH, SUCH AS CONCRETE, HOT MIX ASPHALT, BRICK, ETC. PREVENTS DRIVING THE POSTS AND SUPPORTS INTO THE GROUND.



UNOFFICIAL WEBSITE COPY

N:\31606-007\CADD\CSD3U59-Hudson.dgn
2/28/2013 7:45:24 AM

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 1000 2000 3000 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	PERMANENT WARNING SIGN LOCATION PLAN PHASES 4–5	SHEET NO. 74
				COUNTY SUSSEX	DESIGNED BY: D.W.C.		TOTAL SHTS. 161
					CHECKED BY: M.J.B.		

WARNING SIGN LEGEND

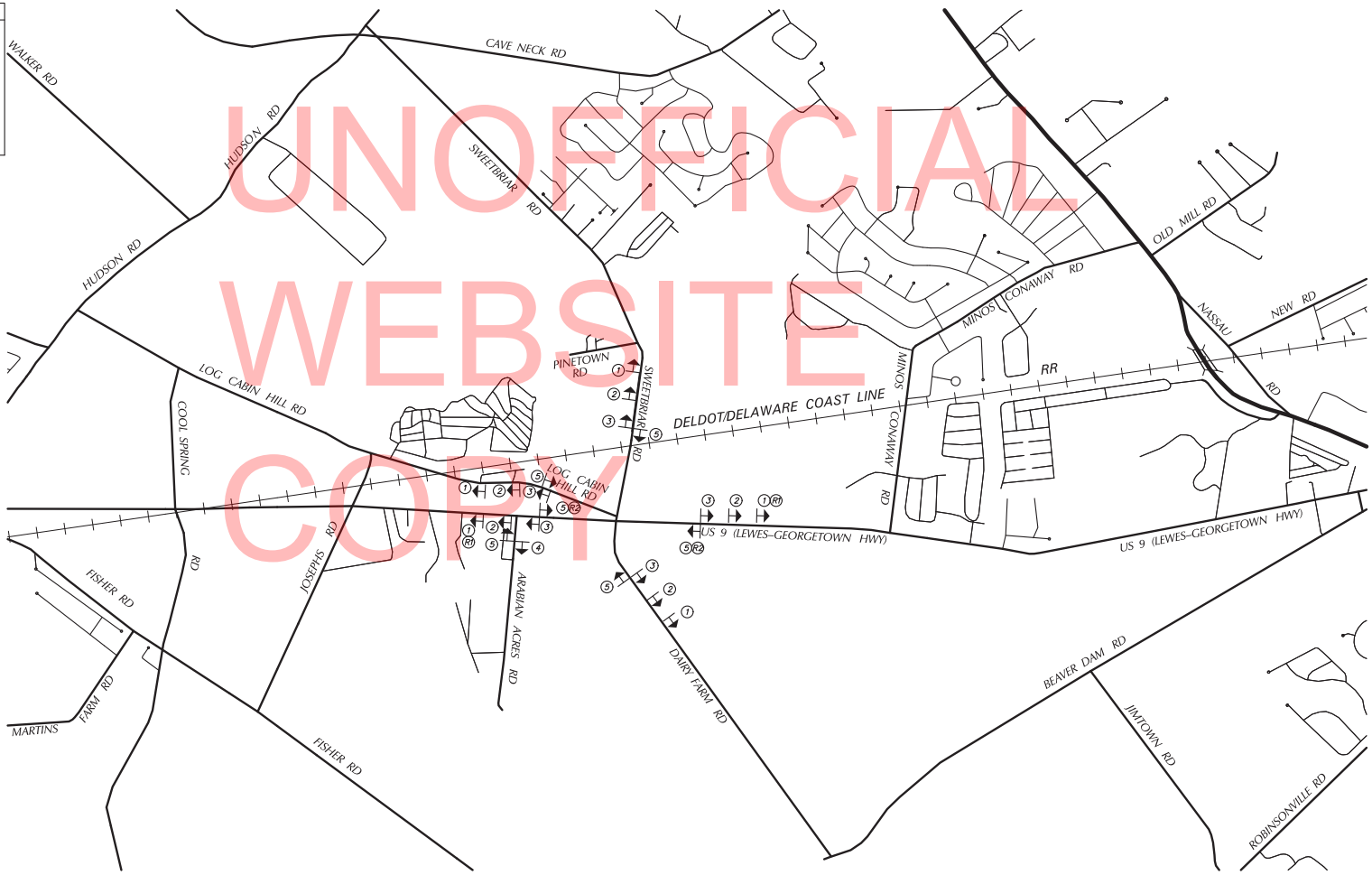
ROAD WORK 1000 FEET	ROAD WORK 2000 FEET	ROAD WORK 500 FEET	ROAD WORK AHEAD	END ROAD WORK
W20-1 48" x 48" (1)	W20-1 48" x 48" (2)	W20-1 48" x 48" (3)	W20-1 48" x 48" (4)	G20-2 48" x 24" (5)

REGULATORY SIGN LEGEND

BEGIN HIGHER FINES ZONE	END HIGHER FINES ZONE
R2-10 36" x 48" (R1)	R2-11 36" x 48" (R2)

NOTES:

1. SEE INDIVIDUAL PHASING PLANS FOR PLACEMENT OF ADDITIONAL WARNING SIGNS. LOCATION OF ALL PERMANENT WARNING SIGNS SHALL BE COORDINATED WITH THE ENGINEER.
2. ANY EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION WARNING SIGNS SHALL BE COVERED OR RELOCATED, AS DIRECTED BY THE ENGINEER.
3. ALL PERMANENT WARNING SIGNS SHALL BE POST MOUNTED ON NCHRP REPORT 350 OR MASH APPROVED BREAKAWAY SUPPORTS UNLESS OTHERWISE NOTED ON THESE PLANS, AS DIRECTED BY THE ENGINEER, OR ONE OF THE FOLLOWING CONDITIONS APPLY:
   1) A UTILITY CONFLICT EXISTS THAT PREVENTS THE BREAKAWAY SUPPORTS FROM BEING DRIVEN INTO THE GROUND (ALL UTILITY CONFLICTS MUST BE VERIFIED BY THE INSPECTOR), OR
   2) MATERIAL OTHER THAN COMMON EARTH, SUCH AS CONCRETE, HOT MIX ASPHALT, BRICK, ETC. PREVENTS DRIVING THE POSTS AND SUPPORTS INTO THE GROUND.



UNOFFICIAL WEBSITE COPY

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 1000 2000 3000 FEET	HSIP SUSSEX COUNTY US 9 PROJECTS	CONTRACT T200800901	BRIDGE NO. N/A	PERMANENT WARNING SIGN LOCATION PLAN PHASES 6–8	SHEET NO. 75
				COUNTY SUSSEX	DESIGNED BY: D.W.C.		TOTAL SHTS. 161
					CHECKED BY: M.J.B.		

N:\31606-007\CADD\CS04U59-Dairy.dgn
2/28/2013 7:45:25 AM