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THE STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY UNITS

FINAL PLANS

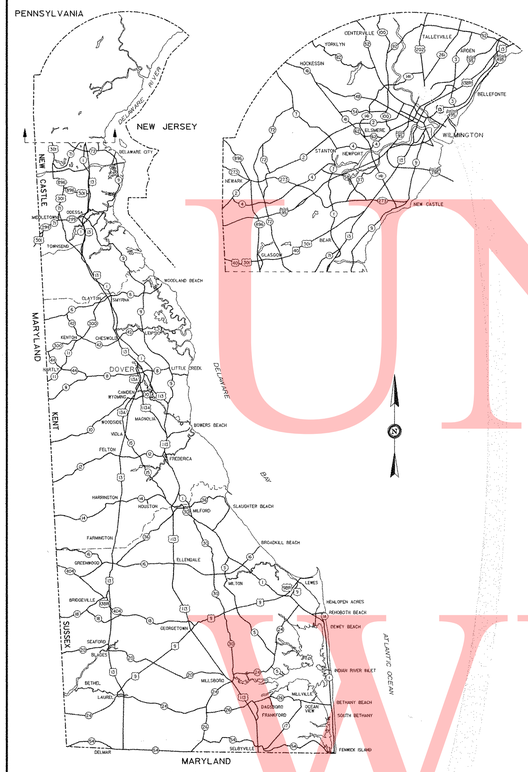
CONSTRUCTION PLANS FOR:

I-95 & US 202 INTERCHANGE

CONTRACT NUMBER: T200510602

FEDERAL AID PROJECT NUMBER: NH-N059(34)

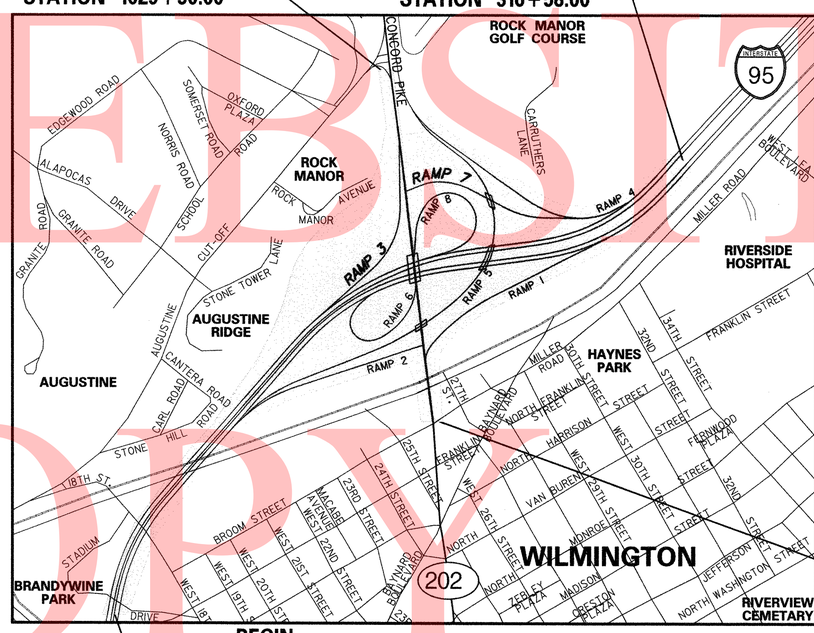
COUNTY: NEW CASTLE **M.R. #:** N059



GENERAL LOCATION OF CONTRACT

LIMIT OF CONSTRUCTION
CONTRACT T200510602
STATION 1029+50.00

END
CONTRACT T200510602
STATION 316+58.00



LIMIT OF CONSTRUCTION
CONTRACT T200510602
STATION 1213+55.38

BEGIN
CONTRACT T200510602
STATION 482+57.00

PROJECT LOCATION

0 300 600 900 1200 Feet

PREPARED BY
THE CONSULTING FIRM OF
McCormick Taylor
Engineers & Planners
Since 1946

SEAL

RECOMMENDED 11/11/10
DATE

RECOMMENDED

SQUAD MANAGER, CONSTRUCTION — DATE 11/16/10

GROUP ENGINEER, CONSTRUCTION — DATE 11/16/10

ASSISTANT DIRECTOR, TRANSPORTATION SOLUTIONS (CONSTRUCTION) — DATE 11-17-10

DESIGN DESIGNATIONS

I-95 (M.R. NO. 59)

FUNCTIONAL CLASS: INTERSTATE D.H.V. PROJECTED: 12,341 YEAR: 2027
TYPE OF CONSTRUCTION: RECONSTRUCTION DESIGN SPEED: 60 M.P.H.
A.A.D.T. CURRENT: 148,900 YEAR: 2009 TRUCKS: 4 %
A.A.D.T. PROJECTED: 174,000 YEAR: 2027 DIRECTION OF DISTRIBUTION: 63/37 %

RAMP 1

FUNCTIONAL CLASS: INTERSTATE RAMP D.H.V. PROJECTED: 277 YEAR: 2027
TYPE OF CONSTRUCTION: OVERLAY DESIGN SPEED: 25 TO 40 M.P.H.
A.A.D.T. CURRENT: 3,000 YEAR: 2009 TRUCKS: 4 %
A.A.D.T. PROJECTED: 3,600 YEAR: 2027 DIRECTION OF DISTRIBUTION: N/A %

RAMP 2

FUNCTIONAL CLASS: INTERSTATE RAMP D.H.V. PROJECTED: 773 YEAR: 2027
TYPE OF CONSTRUCTION: RECONSTRUCTION DESIGN SPEED: 45 M.P.H.
A.A.D.T. CURRENT: 9,100 YEAR: 2009 TRUCKS: 4 %
A.A.D.T. PROJECTED: 11,100 YEAR: 2027 DIRECTION OF DISTRIBUTION: N/A %

RAMP 3

FUNCTIONAL CLASS: INTERSTATE RAMP D.H.V. PROJECTED: 2,184 YEAR: 2027
TYPE OF CONSTRUCTION: RECONSTRUCTION DESIGN SPEED: 40 M.P.H.
A.A.D.T. CURRENT: 27,600 YEAR: 2009 TRUCKS: 4 %
A.A.D.T. PROJECTED: 31,300 YEAR: 2027 DIRECTION OF DISTRIBUTION: N/A %

RAMP 4

FUNCTIONAL CLASS: INTERSTATE RAMP D.H.V. PROJECTED: 727 YEAR: 2027
TYPE OF CONSTRUCTION: RECONSTRUCTION DESIGN SPEED: 40 M.P.H.
A.A.D.T. CURRENT: 6,500 YEAR: 2009 TRUCKS: 4 %
A.A.D.T. PROJECTED: 7,800 YEAR: 2027 DIRECTION OF DISTRIBUTION: N/A %

RAMP 5

FUNCTIONAL CLASS: INTERSTATE RAMP D.H.V. PROJECTED: 2,099 YEAR: 2027
TYPE OF CONSTRUCTION: RECONSTRUCTION DESIGN SPEED: 45 M.P.H.
A.A.D.T. CURRENT: 23,500 YEAR: 2009 TRUCKS: 4 %
A.A.D.T. PROJECTED: 27,400 YEAR: 2027 DIRECTION OF DISTRIBUTION: N/A %

RAMP 6

FUNCTIONAL CLASS: INTERSTATE RAMP D.H.V. PROJECTED: 732 YEAR: 2027
TYPE OF CONSTRUCTION: OVERLAY DESIGN SPEED: 20 M.P.H.
A.A.D.T. CURRENT: 6,800 YEAR: 2009 TRUCKS: 4 %
A.A.D.T. PROJECTED: 8,200 YEAR: 2027 DIRECTION OF DISTRIBUTION: N/A %

RAMP 7

FUNCTIONAL CLASS: INTERSTATE RAMP D.H.V. PROJECTED: 363 YEAR: 2027
TYPE OF CONSTRUCTION: RECONSTRUCTION DESIGN SPEED: 35 TO 40 M.P.H.
A.A.D.T. CURRENT: 3,500 YEAR: 2009 TRUCKS: 4 %
A.A.D.T. PROJECTED: 4,200 YEAR: 2027 DIRECTION OF DISTRIBUTION: N/A %

RAMP 8

FUNCTIONAL CLASS: INTERSTATE RAMP D.H.V. PROJECTED: 723 YEAR: 2027
TYPE OF CONSTRUCTION: OVERLAY DESIGN SPEED: 25 M.P.H.
A.A.D.T. CURRENT: 8,100 YEAR: 2009 TRUCKS: 4 %
A.A.D.T. PROJECTED: 9,700 YEAR: 2027 DIRECTION OF DISTRIBUTION: N/A %

US 202 (M.R. NO. 4)

FUNCTIONAL CLASS: PRINCIPAL ARTERIAL D.H.V. PROJECTED: 4,793 YEAR: 2027
TYPE OF CONSTRUCTION: RECONSTRUCTION DESIGN SPEED: 50 M.P.H.
A.A.D.T. CURRENT: 53,300 YEAR: 2009 TRUCKS: 4 %
A.A.D.T. PROJECTED: 68,100 YEAR: 2027 DIRECTION OF DISTRIBUTION: 54/46 %

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TOTAL SHEETS: 482

APPROVED DESIGN EXCEPTIONS

DESIGN PARAMETER	REQUIRED	PROVIDED	DATE
RAMP 5 OUTSIDE SHLDR WIDTH	8'-10'	4'	1/22/2010
RAMP 5 INSIDE SHLDR WIDTH	1'-6'	8'	1/22/2010
RAMP 5 STOPPING SIGHT DIST	360'	301.76'	1/22/2010
I-95 ML OUTSIDE SHLDR WIDTH	10'	2'	1/22/2010
I-95 VERTICAL CLEARANCE	16.5'	14.6'	1/22/2010

ADDENDA & REVISIONS

DESCRIPTION	NAME & DATE

ASSOCIATED CONTRACTS

CONTRACT NO.	CONTRACT NAME

RECOMMENDED
STORMWATER ENGINEER
DATE 17 Nov 2010
SEAL

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

RECOMMENDED
BRIDGE DESIGN ENGINEER (ACTING)
DATE NOVEMBER 17, 2010
SEAL

RECOMMENDED
GROUP ENGINEER, PROJECT DEVELOPMENT
DATE NOVEMBER 17, 2010
SEAL

RECOMMENDED
ASSISTANT DIRECTOR, TRANSPORTATION SOLUTIONS
DATE 11/17/10
SEAL

APPROVED
CHIEF ENGINEER
DATE November 17, 2010
SEAL

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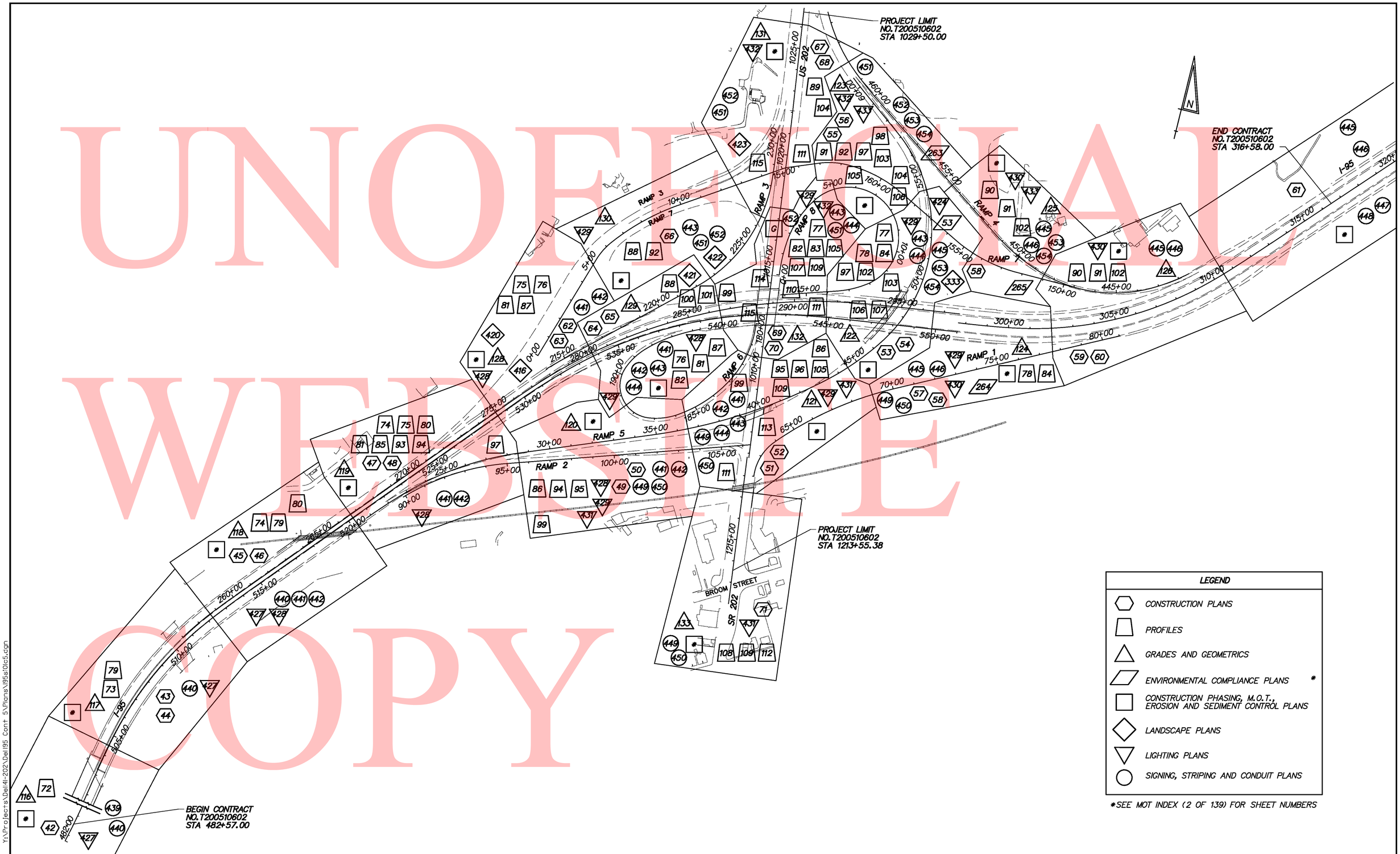

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1/1/2010

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 200 400 600 FEET

I-95 & US 202 INTERCHANGE

CONTRACT	BRIDGE NO.	NA
T200510602	DESIGNED BY:	BMD
COUNTY		
NEW CASTLE	CHECKED BY:	DRK

PLAN SHEET INDEX
SI 1 OF 1

SHEET NO. 2
TOTAL SHTS. 482

EXISTING SYMBOLS

DRAINAGE

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

MANMADE ROADSIDE FEATURES

(TYPE LABEL)	CURB
(TYPE LABEL)	CURB AND GUTTER
	FENCE - CHAINLINK OR STRANDED
	FENCE - STOCKADE OR SPLIT RAIL
FP	FLAG POLE
	GUARDRAIL - STEEL BEAM
	GUARDRAIL - WIRE ROPE
LAMP	LAMP AND POST - RESIDENTIAL
MB	MAILBOX
PM	PARKING METER AND POST
	PAVEMENT - FLEXIBLE
	PAVEMENT - RIGID
	PILE - BRIDGE
	PILLAR OR MISCELLANEOUS POST
	TRAFFIC SIGN AND POST
	WALL - BRICK OR BLOCK
	WALL - STONE

NATURAL ROADSIDE FEATURES

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

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
C.M.	PROPERTY MARKER - CONCRETE MON.
I.P.	PROPERTY MARKER - IRON PIPE

UTILITY

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

UTILITY COMPANY FACILITIES

CW-W-UG	CITY OF WILMINGTON - WATER
VER-C-UG	VERIZON DELAWARE LLC - (UNDERGROUND)
DP-G-UG	DELMARVA POWER - GAS
DP-ET-UG	DELMARVA POWER - ELECTRIC DISTRIBUTION (UNDERGROUND)
DP-ET-OH	DELMARVA POWER - ELECTRIC DISTRIBUTION (OVERHEAD)
L3-C-UG	LEVEL 3 COMMUNICATIONS, LLC - (UNDERGROUND FIBER OPTIC)
L3-C-OH	LEVEL 3 COMMUNICATIONS, LLC - (OVERHEAD FIBER OPTIC)
NCC-S-UG	NEW CASTLE COUNTY - SEWER
DELCOMM-C-UG	DELDOT COMMUNICATIONS - (UNDERGROUND)
COM-C-OH	COMCAST CABLE COMMUNICATIONS - (OVERHEAD)
CAV-C-OH	CAVALIER TELEPHONE MID-ATLANTIC, LLC - (OVERHEAD)

PROPOSED SYMBOLS

CONSTRUCTION

	CONCRETE SAFETY BARRIER - PERMANENT
BFS	BIOFILTRATION SWALE
	BUTT JOINT
100+00	CONSTRUCTION BASELINE
	CURB, TYPE 1 & TYPE 3
	CURB, TYPE 2
	CURB & GUTTER, TYPE 1
	CURB & GUTTER, TYPE 2
	CURB & GUTTER, TYPE 3
	CURB & GUTTER, TYPE 4
CZ	CLEAR ZONE
	DRAINAGE INLET
	DITCH
	FENCE - METAL
	FENCE - WOOD
	FLARED END SECTION
	GUARDRAIL, TYPES 1 & 3
	GUARDRAIL, TYPE 2
	GUARDRAIL END TREATMENT - PARALLEL
	GUARDRAIL END TREATMENT - PARABOLIC
HC	HORIZONTAL CLEARANCE
	JUNCTION BOX - DRAINAGE
LOC	LIMIT OF CONSTRUCTION
	MANHOLE
	PAVEMENT PATCH
	PIPE & DIRECTIONAL FLOW ARROW
	RIPRAP
	P.C.C. SIDEWALK @ 4"
	P.C.C. SIDEWALK @ 6"
	UNDERDRAIN
	UNDERDRAIN OUTLET
	CONCRETE

CONSTRUCTION PHASING SYMBOLS

	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
	CONSTRUCTION WARNING SIGN LOCATION
END ROAD WORK	CONSTRUCTION WARNING SIGN
	PORTABLE IMPACT ATTENUATOR
	DRUM - TRAFFIC CONTROL
	PHASING TRAFFIC FLOW ARROW
CF	CONSTRUCTION SAFETY FENCE

LANDSCAPING

	SHRUBBERY
	CONIFEROUS TREE
	DECIDUOUS TREE

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
SCD	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

IDENTIFIERS

A C	ADJUST BY CONTRACTOR
A O	ADJUST BY OTHERS
B	CONCRETE SAFETY BARRIER
C	CURB OR CURB & GUTTER
CJB	CONVERT TO JUNCTION BOX
CMH	CONVERT TO DRAINAGE MANHOLE
C O	CURB OPENING
CR	CURB RAMP / TYPE
CR-H	CURB RAMP / TYPE - WITHOUT SIDEWALK SURFACE DETECTABLE WARNING SYSTEM
DI	DRAINAGE INLET
DND	DO NOT DISTURB
FES	FLARED END SECTION
FS	FILTRATION STRUCTURE
GR	GUARDRAIL
JB	JUNCTION BOX
LS	LANDSCAPE PLANTINGS
MH	MANHOLE
M	MONUMENT - RIGHT-OF-WAY
P	PIPE
RL C	RELOCATE BY CONTRACTOR
RL O	RELOCATE BY OTHERS
RM C	REMOVE BY CONTRACTOR
RM O	REMOVE BY OTHERS
ST	SEDIMENT TRAP
SF	SILT FENCE
UD	UNDERDRAIN
RR	RIPRAP

PAVEMENT SECTION(S)

	OVERLAY PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS
	BITUMINOUS RECONSTRUCTED PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS
	CONCRETE RECONSTRUCTED PAVEMENT WITH BITUMINOUS OVERLAY - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS
	PAVEMENT REMOVAL

RIGHT-OF-WAY SYMBOLS

	PROPOSED RIGHT-OF-WAY MONUMENT
PL	EXISTING PROPERTY LINE
EASEMENT TYPE	EXISTING EASEMENT
	EXISTING RIGHT-OF-WAY
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
100+00	HISTORIC RIGHT-OF-WAY BASELINE

TRAFFIC

ITMS-CON	ITMS CONDUIT
SIG-CON	SIGNAL CONDUIT
	CONDUIT JUNCTION WELL
	LUMINAIRE
	PAVEMENT MARKINGS
	PAVEMENT STRIPING
	TRAFFIC SIGN
	TEMPORARY WOOD POLE FOR HIGHWAY LIGHTING CABLES
DOT-OH	TEMPORARY HIGHWAY LIGHTING CABLE

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	I-95 & US 202 INTERCHANGE	CONTRACT T200510602 / COUNTY NEW CASTLE	BRIDGE NO. NA / DESIGNED BY: BMD / CHECKED BY: DRK	LEGEND NL 1 OF 1	SHEET NO. 3 / TOTAL SHTS. 482

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 AT THE TIME OF BID. 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 AT THE TIME OF BID. 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.
( ) 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.
(X) 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.
(X)	EXISTING DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
(X)	PROPOSED DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
(X)	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.
(X)	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE ATSSA SUPERVISOR'S SOLE JOB SHALL BE THE 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.

9. THE DISTURBED AREA FOR THE PROJECT IS 41.0 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. ANY DAMAGE TO ITEMS NOTED TO BE RELOCATED OR RESET BY THE CONTRACTOR, AT THE DISCRETION OF THE ENGINEER, SHALL BE REPAIRED AND/OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.

2. UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SHALL, AS PART OF HIS PROJECT SCHEDULE, SUBMIT TO THE ENGINEER AN ESTIMATE OF THE MONTHLY PAYMENTS EXPECTED TO BE RECEIVED ON THE CONTRACT. THIS WILL BE REFERENCED AS THE "MONTHLY PAYMENT CHART".

   A CHART IN MICROSOFT EXCEL, MICROSOFT WORD, OR HAND WRITTEN FORMAT WILL BE ACCEPTABLE FOR THIS PURPOSE. THE CHART SHOULD INCLUDE, AS A MINIMUM, COLUMNS FOR MONTH, YEAR AND ESTIMATED MONTHLY PAYMENTS. THE TOTAL OF ALL ESTIMATED MONTHLY PAYMENTS SHOULD EQUAL THE AWARDED CONTRACT TOTAL BID PRICE.

   THE ENGINEER MAY REQUEST AN UPDATED "MONTHLY PAYMENT CHART" AT HIS DISCRETION, DEPENDING ON THE ACCURACY OF THE INITIAL ESTIMATES AND ACCORDING TO THE OVERALL NEEDS OF THE DEPARTMENT.

   THE "MONTHLY PAYMENT CHART" WILL NOT BE CONSIDERED A BINDING DOCUMENT BY EITHER THE CONTRACTOR OR THE DEPARTMENT AND IS CONSIDERED SOLELY INFORMATIONAL.

   ON PROJECTS REQUIRING CPM SCHEDULES, THE CONTRACTOR MAY, BUT IS NOT REQUIRED TO, "COST LOAD" THE CPM SCHEDULE IN ORDER TO GENERATE THE MONTHLY SPEND PAYMENT CHART.

   COSTS TO PREPARE AND/OR UPDATE THE "MONTHLY PAYMENT CHART" ARE ADDRESSED AS FOLLOWS:
   A. ON CONTRACTS REQUIRING CPM SCHEDULES AND UPDATES, PREPARATION OF THE INITIAL CHART SHALL BE INCIDENTAL TO ITEM 763508. UPDATES SHALL BE INCIDENTAL TO ITEM 763509.

   B. ON CONTRACTS NOT REQUIRING CPM SCHEDULES, THE COST TO PREPARE AND UPDATE THE "MONTHLY PAYMENT CHART" SHALL BE INCLUDED IN ITEM 763000 - INITIAL EXPENSE.

3. ENGINEERING FIRMS WHO HAVE BEEN A PART OF THE PROJECT DESIGN ARE NOT ELIGIBLE TO PERFORM WORK UNDER "CONSTRUCTION ENGINEERING" - ITEM 763501.

SECTION 200

4. ALL EXISTING DRAINAGE PIPES AND DRAINAGE INLETS TO REMAIN IN SERVICE WITHIN THE PROJECT LIMITS SHALL BE CLEARED OF ALL OBSTRUCTIONS AND FLUSHED OF ALL SEDIMENT PRIOR TO FINAL ACCEPTANCE. THE COST SHALL BE INCIDENTAL TO ITEM 201000 - CLEARING AND GRUBBING.

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

6. 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.

7. IN ADDITION TO THE BREAKOUT SHEET, ITEMS TO BE REMOVED UNDER ITEM 211000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
   - BOLLARDS
   - CATCH BASINS
   - END WALLS
   - MASONRY WALLS
   - ITEMS SPECIFIED IN BRIDGE NOTES FOR EACH BRIDGE
   - OTHER MISCELLANEOUS ITEMS

8. 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.

9. PRIOR TO PLACEMENT OF EMBANKMENT AND/OR GRADED AGGREGATE BASE COURSE, UNDERCUT EXCAVATION SHALL BE PERFORMED TO REMOVE UNSUITABLE MATERIAL AS DIRECTED BY THE ENGINEER. BORROW, TYPE "A" (NON WET AREA) AND BORROW, TYPE "B" (WET AREAS) SHALL BE USED FOR REFILL OF ALL UNDERCUT AREAS AS DIRRECTED BY THE ENGINEER.

10. BEFORE PLACEMENT OF FLOWABLE FILL IN EXISTING DRAINAGE SYSTEM, PLUG PIPE ENDS AS REQUIRED AND REMOVE EXISTING INLET TOPS TO A DEPTH OF 1 FOOT BELOW THE PROPOSED ROADWAY SUBGRADE OR 2 FEET BELOW THE PROPOSED FINAL GRADE IN SEEDED AREAS. PROVIDE RELIEF HOLES IN EXISTING DRAINAGE PIPES AT 100 FEET INTERVALS OR LESS, AS DIRECTED BY THE ENGINEER TO ASSURE THAT ALL VOIDS ARE FILLED. PAYMENT FOR REMOVING PORTIONS OF EXISTING DRAINAGE STRUCTURES AND PROVIDING RELIEF HOLES IS INCIDENTAL TO ITEM 211000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS.

11. THE CONTRACTOR SHALL PERFORM ROCK EXCAVATION FOR ROADWAY AND FOR STRUCTURES BY FIRST REMOVING ALL SOIL AND/OR DECOMPOSED ROCK TO EXPOSE THE SURFACE OF SOLID ROCK. ANY BOULDERS WILL BE MEASURED AND PAID FOR AS OUTLINED IN STANDARD SPECIFICATIONS 205.02 AND 206.02 AS APPLICABLE. ELEVATIONS WILL BE TAKEN JOINTLY BY THE CONTRACTOR'S AND ENGINEER'S SURVEY CREWS TO ESTABLISH TOP OF ROCK FOR MEASUREMENT PURPOSES. ONLY AFTER REMOVAL OF ALL OVERBURDEN MATERIAL, DESCRIBED ABOVE, WILL THE CONTRACTOR BE PERMITTED TO DRILL FOR BLASTING PURPOSES OR BEGIN OTHER METHODS OF ROCK EXCAVATION. BLASTING MATS OR OTHER APPROVED DEVICES WILL BE REQUIRED TO CONTAIN ALL DEBRIS GENERATED BY THE BLASTING OPERATION.

12. ROCK FROM WITHIN THE PROJECT LIMITS IS SUITABLE FOR USE IN THE EMBANKMENT SLOPES WHEN CONSTRUCED IN ACCORDANCE WITH SECTION 202.05 OF THE SPECIFICATIONS.

13. PIPES REQUIRING REMOVAL OUTSIDE THE ROADWAY EXCAVATION LIMITS OR BELOW THE PAVEMENT BOX EXCAVATION/REMOVAL OF EXISTING PAVEMENT WILL BE PAID UNDER ITEM 211004 - REMOVAL OF STRUCTURE AND OBSTRUCTIONS (PIPE).

14. ROCK SHALL BE CLASSIFIED AS PER SUBSECTION 206.02 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR IS ADVISED THAT THE ROCK ENCOUNTERED ON THE PROJECT WILL BE EXTREMELY HARD. IT IS COMMONLY REFERRED TO AS "WILMINGTON BLUE GNEISS (GRANITE)". EQUIPMENT CAPABLE OF DRILLING AND/OR EXCAVATING THIS TYPE OF ROCK SHALL BE UTILIZED BY THE CONTRACTOR. NO CLAIM FROM THE CONTRACTOR FOR FAILING TO ANTICIPATE THE HARDNESS OF THE ROCK ENCOUNTERED WILL BE CONSIDERED BY THE DEPARTMENT. THE CONTRACTOR ASSUMES THE RESPONSIBILITY FOR DETERMINING THE TYPE AND SIZE OF THE DRILLING AND EXCAVATING EQUIPMENT AND THE MEANS AND METHODS TO PERFORM THE ROCK DRILLING AND EXCAVATING WORK SHOWN ON THE PLANS.

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PROJECT NOTES (CONTINUED)

15. REVISE SECTION 202.02 AS FOLLOWS:

TEST ROLLING SHALL BE PERFORMED WITH ACCEPTABLE PNEUMATIC-TIRED EQUIPMENT FOR SPECIAL ROLLING, CAPABLE OF VARYING THE LOAD FROM 20 TO 40 TONS. USE A ROLLER CONSTRUCTED TO TRANSMIT THE LOAD THROUGH FOUR WHEELS, EQUALLY SPACED OVER THE ROLLER WIDTH, MOUNTED ON TWO OR FOUR AXLES IN LINE, PERMITTING OSCILLATION OF THE INDIVIDUAL WHEELS OR PAIRS OF WHEELS. USE A ROLLER WITH TIRES CAPABLE OF OPERATING AT INFLATION PRESSURES RANGING FROM 90 TO 150 POUNDS PER SQUARE INCH. PROVIDE CHARTS OR TABULATIONS SHOWING THE CONTACT AREAS AND CONTACT PRESSURES FOR THE RANGE OF TIRE INFLATION PRESSURES AND LOADINGS FOR THE PARTICULAR TIRES FURNISHED.

ADJUST THE ROLLER LOAD AND TIRE PRESSURE FOR CONTACT PRESSURES TO APPROXIMATELY THE MAXIMUM SUPPORTING VALUE OF THE LAYER BEING ROLLED. WHEN THE ROLLING OF ANY AREA SHOWS AN AREA TO BE UNSTABLE OR NON-UNIFORM, SATISFACTORILY STABILIZE THE AREA BY PROVIDING ADDITIONAL COMPACTION ON THESE AREAS OR BY REMOVING THE UNSUITABLE MATERIAL, REPLACING, AND RECOMPACTING IN ACCORDANCE WITH SPECIFICATION SECTION 21 2.

OPERATE THE ROLLER IN A MANNER SO THE NUMBER OF PASSES CAN BE READILY DETERMINED AND RECORDED.

ACCEPTANCE OF THE TEST ROLLING BY THE ENGINEER WILL BE A REQUIREMENT PRIOR TO THE PLACEMENT OF SUBSEQUENT FILLS.

16. EMBANKMENT SETTLEMENT IS ANTICIPATED AT THESE LOCATIONS:

RAMP 5: STATION 30+25 TO 39+12
STATION 40+34 TO 46+76
STATION 49+05 TO 52+41
STATION 53+18 TO 54+00
RAMP 7: STATION 149+27 TO 155+00

THESE EMBANKMENTS WILL BE QUARANTINED AN ESTIMATED PERIOD OF 30 CALENDAR DAYS.

DURING THIS PERIOD, DIVERT ALL CONSTRUCTION ACTIVITIES AROUND THE SPECIFIED QUARANTINE AREA. DO NOT ALLOW CONSTRUCTION ACTIVITY OTHER THAN SETTLEMENT MONITORING WITHIN THE PROTECTED BUFFER AREA DURING THE QUARANTINE TIME PERIOD. MONITOR SETTLEMENT IN ACCORDANCE WITH THE SPECIAL PROVISION ITEM 763501 - CONSTRUCTION ENGINEERING.

BEGIN THE QUARANTINE PERIOD WHEN THE EMBANKMENT IS AT FINAL SUBGRADE AND THE SETTLEMENT MONUMENTS ARE COMPLETELY CONSTRUCTED. THE ENGINEER WILL DETERMINE THE DURATION OF THE QUARANTINE PERIOD BASED ON THE SETTLEMENT MONUMENT READINGS.

THE ENGINEER WILL NOTIFY THE CONTRACTOR, IN WRITING, WHEN THE QUARANTINE PERIOD CAN BE LIFTED AND WILL BE BASED ON THE RESULTS OF THE SETTLEMENT READINGS. BRIDGE APPROACH SLABS SHOULD NOT BE CONSTRUCTED UNITL QUARANTINE PERIOD IS COMPLETE.

17. THIS PROJECT INCLUDES THE INSTALLATION OF SETTLEMENT MONUMENTS IN EMBANKMENT AREAS. AS PART OF CONSTRUCTION ENGINEERING THE CONTRACTOR IS REQUIRED TO MONITOR THESE SETTLEMENT MONUMENTS. THIS WORK CONSISTS OF OBTAINING, RECORDING, COMPILING AND ANALYZING THE SETTLEMENT MONUMENT READINGS.

TO ACCOMPLISH THIS WORK THE CONTRACTOR SHALL:

PROVIDE QUALIFIED PERSONNEL WITH EXPERIENCE IN SETTLEMENT MONITORING AND THE NECESSARY EQUIPMENT AND MATERIALS TO OBTAIN, RECORD, COMPILE AND ANALYZE THE VERTICAL SETTLEMENT READINGS AS SPECIFIED OR DIRECTED.

THE ENGINEER WILL SPECIFY THE FINAL LOCATION OF THE SETTLEMENT MONUMENTS. OBTAIN WRITTEN APPROVAL OF THE ENGINEER BEFORE FIRST (INITIAL) SETTLEMENT MONUMENT READING AND COORDINATE SUBSEQUENT MONUMENT READINGS. PROVIDE THE RESULTS WITHIN 24 HOURS AFTER THE READINGS ARE OBTAINED IN A FORMAT SUCH THAT IMMEDIATE EVALUATION OF THE CONDITIONS CAN BE MADE.

TAKE READINGS AT EACH OF THE LOCATIONS IMMEDIATELY AFTER CONSTRUCTION OF THE EMBANKMENT TO SUBGRADE IS COMPLETED AND THE SETTLEMENT MONUMENTS ARE INSTALLED.

TAKE A COMPLETE SET OF READINGS TWICE A WEEK FOR THE FIRST FOUR (4) WEEKS UPON COMPLETION OF THE PRELOAD CONSTRUCTION. OBTAIN AND RECORD THE ELEVATION OF EACH MONUMENT TO THE NEAREST HUNDREDTH (.01) OF A FOOT. IF THE EMBANKMENT CONTINUES TO SETTLE AFTER THE FIRST FOUR (4) WEEKS, CONTINUE TAKING READINGS AT WEEKLY INTERVALS.

DO NOT ALLOW CONSTRUCTION ACTIVITY, OTHER THAN MONITORING, WITHIN THE QUARANTINE AREAS DURING THE QUARANTINE TIME PERIOD.

LOCATE SETTLEMENT MONUMENTS HORIZONTALLY AND VERTICALLY AT THE DIRECTION OF THE ENGINEER. PROVIDE A TEMPORARY BENCHMARK FOR THE MONITORING OF THIS WORK. THE BENCHMARK SHOULD BE LOCATED IN A SAFE AREA OUTSIDE OF THE AREA OF ANTICIPATED SETTLEMENT.

THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE ITEM 763501* CONSTRUCTION ENGINEERING.

SECTIONS 300

18. 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 760502.
   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 760502 - PAVEMENT MILLINGS, TAPERCUT 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 COUSRE, 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 500

19. PRIOR TO PLACING NEW CONCRETE OR HOT-MIX PAVEMENT ADJACENT TO AN EXISTING CONCRETE PAVEMENT, ALL EXISITNG TRANSVERSE JOINTS SHALL BE SEALED WHERE THE EXISTING AND NEW PAVEMENTS WILL ABUT. THE SAW CUT THAT CREATED THE ORIGINAL TRANSVERSE JOINT SHALL BE SEALED AT THE INTERFACE OF THE NEW AND EXISTING PAVEMENT WITH DUCT TAPE, CAULK OR OTHER APPROVED MATERIAL TO PREVENT PORTLAND CEMENT, BITUMINOUS CEMENT, AGGREGATE OR OTHER MATERIALS FROM CLOGGING THE EXISTING CONCRETE SLAB'S TRANSVERSE JOINT. PAYMENT FOR THIS WORK SHALL BE INCIDENTAL TO ITEM 501006 - PORTALND CEMENT CONCRETE PAVEMENT, 12".

20. THE EXPOSED LONGITUDINAL VERTICAL FACE OF ALL EXISTING CONCRETE PAVEMENT SLABS SHALL BE COATED WITH AN APPROVED CONCRETE CURING COMPOUND PRIOR TO PLACING NEW CONCRETE FOR PAVEMENT WIDENING. PAYMENT FOR THIS WORK SHALL BE INCIDENTAL TO ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12".

21. PROPOSED PCC PAVEMENT SHALL MEET THE REQUIREMENTS OF ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12" EXCEPT AS FOLLOWS:
a. TRANSVERSE PAVEMENT TEXTURING AS SPECIFIED IN SECTION 501.09 IS NOT REQUIRED.
b. PROFILOGRAPH TESTING AS SPECIFIED IN SECTION 501.17 IS NOT REQUIRED.
c. USE OF PREFORMED COMPRESSION SEALS IN TRANSVERSE JOINTS AS SPECIFIED IN SECTION 501.18 IS NOT REQUIRED. AS AN ALTERNATE, THE CONTRACTOR MAY ELECT TO FILL THE TRANSVERSE JOINTS WITH HOT-POURED JOINT SEALANT OVER A 3/4" (UNCOMPRESESED DIAMETER) BACKER ROD.
THESE EXCEPTIONS DO NOT APPLY TO PCC PAVEMENT FROM STA 519+63.06 TO STA 520+77.72.

SECTION 600

22. 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. VIDEO INSPECTIONS OF THE EXISTING PIPES TAKEN ON NOVEMBER 2009 ARE AVAILABLE FOR THE CONTRACTOR'S USE. EXISTING PIPES AND DRAINAGE STRUCTURES DAMAGED DUE TO CONTRACTOR OPERATIONS SHALL BE REPAIRED OR REPLACED IN-KIND AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR IS REQUIRED TO VIDEO INSPECT NEW PIPE RUNS TO CONFIRM CONDITION PRIOR TO ACCEPTANCE. PAYMENT FOR VIDEO INSPECTION OF NEW PIPES WILL BE MADE UNDER ITEM 612529 - VIDEO INSPECTION. THE EXISTING PARALLEL AND CROSS PIPES THAT HAVE NOT PREVIOUSLY BEEN VIDEO INSPECTED ARE LOCATED IN THE I-95 SOUTHBOUND ROADWAY FROM STATION 504+00 TO STATION 273+00.

SECTION 700

23. IN AREAS WHERE PROPOSED CURB MEETS EXISTING CURB AND THE TWO CURB TYPES ARE NOT SIMILAR, THE PROPOSED CURB SHALL BE TRANSITIONED IN 10 LINEAR FEET, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK, INCLUDING SAW CUTTING EXISTING CURB SHALL BE INCIDENTAL TO THE PROPOSED CURB ITEM.

24. P.C.C. CHANNELIZING ISLANDS THAT ARE LESS THAN 75 SQ FT MAY BE POURED MONOLITHICALLY, OR AS DIRECTED BY THE ENGINEER.

25. 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.

26. DRAINAGE INLET GRATES ADJACENT TO THE ROAD, WITHIN THE PROJECT LIMITS, WHICH ARE NOT TYPE 1 SHALL BE REPLACED. THE ACTUAL LOCATIONS, THE NEED FOR ANY GRATE MODIFICATIONS OR FOR NEW FRAMES SHALL BE DETERMINED BY THE ENGINEER. ALL REPLACED GRATES/FRAMES SHALL BE DELIVERED TO THE NEAREST DISTRICT MAINTENANCE YARD WITH THE COST OF DELIVERY INCIDENTAL TO ITEM 708500 - REPLACING CATCH BASIN GRATES. FINAL PAYMENT FOR REPLACED GRATES/FRAMES SHALL NOT BE MADE UNTIL RECEIPT OF DELIVERED MATERIALS IS PRODUCED, SIGNED BY A DELDOT MAINTENANCE YARD SUPERVISOR.

27. 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.

28. ALL HOT-MIX SAW CUTTING SHALL BE FULL DEPTH, UNLESS OTHERWISE NOTED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER

29. UNDERDRAIN OUTLET STRUCTURES SHALL BE INCIDENTAL TO ITEM 715500 - UNDERDRAIN OUTLET PIPE, 6". UNDERDRAIN OUTLET STRUCTURES SHALL CONFORM TO 2008 STANDARD CONSTRUCTION DETAIL D-9.

30. PRIOR TO DRIVING GUARDRAIL POSTS IN AREAS WITH UNDERDRAIN OUTLET STRUCTURES, ALL UNDERDRAIN OUTLET LOCATIONS THAT MAY BE IN CONFLICT WITH GUARDRAIL POSTS SHALL BE MARKED. GUARDRAIL POSTS SHALL BE ADJUSTED TO AVOID CONFLICT AS DIRECTED BY THE ENGINEER. PAYMENT FOR ADJUSTING GUARDRAIL POST LOCATIONS IS INCIDENTAL TO THE CORRESPONDING GUARDRAIL ITEM.

31. WORK ACTIVITIES ASSOCIATED WITH ITEM 737523:
- PLANTINGS WILL NOT BE A PART OF THE CONTRACT CPM SCHEDULE, AND WILL NOT BE SUBJECT TO THE ADVERTISED COMPLETION TIME FOR THIS CONTRACT. A TIME PERIOD OF 60 CALENDAR DAYS WILL BE UTILIZED TO GOVERN COMPLETION OF THE PLANTINGS ASSOCIATED WITH THE LANDSCAPE PLAN SHEETS LP 1 - LP4 OF 6 AFTER THE FINAL GRADING OF WASTE MATERIAL, PLACING TOPSOIL, SEEDING, AND MULCHING OF THE EXISTING RAMP 3 AND RAMP 7 HAVE BEEN COMPLETED. A SEPARATE TIME PERIOD OF 60 CALENDAR DAYS WILL BE UTILIZED TO GOVERN THE COMPLETION THE PLANTINGS ASSOCIATED WITH THE "BCSP RIPARIAN REFORESTATION AREA" AS SHOWN ON LANDSCAPE PLAN SHEETS LP 5 OF 6 AND LP 6 OF 6. THE TIME PERIOD FOR THE "BCSP RIPARIAN REFORESTATION AREA" SHALL FALL WITHIN THE FIRST GROWING SEASON TO OCCUR AFTER ISSUANCE OF NOTICE TO PROCEED ON THE CONTRACT UNLESS A DELAY IN PLANTING IS SPECIFICALLY REQUESTED BY THE BRANDYWINE CREEK STATE PARK MANAGER. THE CONTRACTOR WILL SUBMIT A SEPARATE SCHEDULE IN BAR CHART FORMAT REFLECTING ALL WORK ASSOCIATED WITH THE TWO SITES. FAILURE TO COMPLETE THE AREA OF PLANTINGS WITHIN THE SPECIFIED NUMBER OF CALENDAR DAYS ABOVE WILL RESULT IN ASSESSMENT OF LIQUIDATED DAMAGES BASED ON THE TOTAL OF ITEM 737523 PER WORKING DAY AS DETAILED UNDER THE CONTRACT'S ADVERTISED SCHEDULE OF LIQUIDATED DAMAGES. NO CHANGE TO THE METHOD OF MEASUREMENT, BASIS OF PAYMENT, OR EXTENDED PLANT ESTABLISHMENT PERIOD LISTED IN THE SPECIAL PROVISIONS IS TO BE MADE AS A RESULT OF THIS NOTE.

32. ALL GUARDRAIL ITEMS SPECIFIED IN THIS CONTRACT SHALL BE TYPE 31 (31" HIGH TO TOP OF W-BEAM, MIN.) AS DETAILED IN THE STANDARD CONSTRUCTION DETAILS.

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PROJECT NOTES (CONTINUED)

MISCELLANEOUS

33. 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.

34. CROSS SECTIONS USED IN THE PREPARATION OF THIS CONTRACT ARE AVAILABLE FROM THE DEPARTMENT.

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

36. AT STATION 154 +75 LT THE CLEARING AND GRUBBING OPERATIONS WITHIN THE LOC WILL EXTEND NO FURTHER THAN WHAT IS NEEDED TO INSTALL THE PROPOSED RIPRAP. THE WORK ASSOCIATED WITH THE ABANDONMENT OF THE 30" RCP PIPE LOCATED 50' DOWNSTREAM FROM THE RIPRAP WILL BE COMPLETED BE HAND. NO MOTORIZED VEHICLE ACCESS/USE TO THE PIPE LOCATION IS PERMITTED BEYOND THE RIPRAP LIMITS.

37. INSTALL RUMBLE STRIPS ON THE OUTSIDE SHOULDER OF ALL CURVES ON RAMPS FROM THE PC STATION TO THE PT STATION.

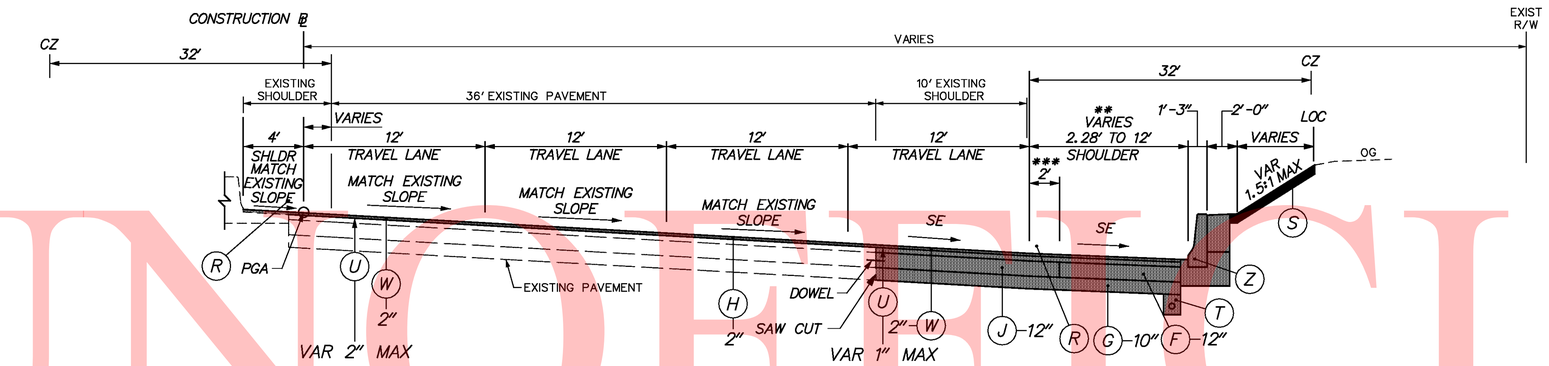
EARTHWORK SUMMARY

NOTE: THIS CHART IS FOR INFORMATIONAL PURPOSED ONLY. EARTHWORK SUMMARY IS BASED ON ESTIMATED QUANTITIES FOR EXCAVATION, BORROW, AND TOPSOIL.

EXCAVATION AND EMBANKMENT	PHASE 1	PHASE 2	PHASE 3
EXCAVATION FROM CROSS SECTIONS	41649 CY	56256 CY	1801 CY
ADD: BENCHING	9675 CY	0 CY	0 CY
ADD: TOPSOIL; REMOVED UNDER FILL	1514 CY	294 CY	0 CY
ADD: TOPSOIL PLACED IN CUT	3018 CY	2784 CY	774 CY
ADD: PAVEMENT REMOVED IN FILL	451 CY	71 CY	0 CY
SUBTRACT: ROOTMAT REMOVED IN CUT	3587 CY	13763 CY	0 CY
SUBTRACT: ROCK EXCAVATION	1205 CY	11781 CY	0 CY
TOTAL	51514 CY	33861 CY	2575 CY
STORMWATER MANAGEMENT POND EXCAVATION			
FROM CROSS SECTIONS	13344 CY	0 CY	0 CY
SUBTRACT: ROOTMAT REMOVED IN CUT	1359 CY	0 CY	0 CY
ADD: TOPSOIL PLACED IN CUT	739 CY	0 CY	0 CY
TOTAL	12724 CY	0 CY	0 CY
EXCAVATION AVAILABLE FOR EMBANKMENT			
NOTE: ALL EXCAVATION FROM PROJECT TO BE SPOIL	0 CY	0 CY	0 CY
MATERIAL FROM PHASE 1 TO BE WASTED OFFSITE	0 CY	0 CY	0 CY
MATERIAL FROM PHASE 2 AND PHASE 3 TO BE WASTED IN EXISTING RAMP 3 (US 202 SB TO I-95 SB) AND RAMP 7 (I-95 SB TO US 202 SB)	0 CY	0 CY	0 CY
MATERIAL TO CONSTRUCT TEMPORARY PAVEMENT	0 CY	281 CY	0 CY
COMPACTION FACTOR TO BE APPLIED TO SUM (20%)	0 CY	56 CY	0 CY
TOTAL	0 CY	337 CY	0 CY
EMBANKMENT AND BORROW TYPE "F" REQUIRED			
FROM CROSS SECTIONS	33064 CY	7502 CY	13 CY
ADD: TOPSOIL REMOVED UNDER FILL	1514 CY	294 CY	0 CY
ADD: ROOTMAT REMOVED UNDER FILL	7662 CY	1653 CY	0 CY
ADD: PCC AND HOTMIX PAVEMENT UNDER FILL	805 CY	570 CY	11 CY
ADD: BENCHING	9675 CY	0 CY	0 CY
SUBTRACT: TOPSOIL ON FILL SLOPES	2661 CY	693 CY	0 CY
TOTAL	50059 CY	9324 CY	24 CY
BORROW, TYPE C (FROM STRUCTURE PLANS)	2000 CY	0 CY	0 CY
FURNISHING BORROW TYPE C FOR PIPES, UTILITY AND STRUCTURE BACKFILL			
PIPE TRENCH BORROW TYPE C BACKFILL	2265 CY	0 CY	0 CY
STRUCTURE PLANS	6798 CY	0 CY	0 CY
TOTAL	9063 CY	0 CY	0 CY
FURNISH TYPE "A" REQUIRED			
ITEM 209001 – BORROW, TYPE A	5556 CY		
FURNISH TYPE "B" REQUIRED			
ITEM 209002 – BORROW, TYPE B	2329 CY		
REMOVAL OF EXISTING PORTLAND CEMENT PAVEMENT, CURB, SIDEWALK, ETC			
	354 CY	499 CY	864 CY
TOPSOIL SUMMARY			
TOPSOIL SALVAGED FROM PROJECT (NOTE ALL TOPSOIL STRIPPED TO BE SPOIL)	0 CY	0 CY	0 CY
TOPSOIL NEEDED FOR STORMWATER MANAGEMENT PONDS	739 CY	0 CY	0 CY
TOPSOIL NEEDED FOR ROADWAY CONSTRUCTION	5679 CY	3477 CY	774 CY
TOPSOIL NEEDED FOR WASTE AREA	0 CY	0 CY	5960 CY
TOTAL	6418 CY	3477 CY	6734 CY
EARTHWORK BALANCE			
WASTE MATERIAL TO BE REMOVED FROM PROJECT SITE (PHASE 1 EXCAVATION + SWM EXCAVATION + STRUCTURE EXCAVATION + PIPE EXCAVATION + TOPSOIL + UDRAIN EXCAVATION)	83644 CY	0 CY	0 CY
WASTE MATERIAL TO BE PLACED IN WASTE AREA RAMP 3 (US 202 SB TO I-95 SB) AND RAMP 7 (I-95 SB TO US 202 SB) (PHASE 2 + PHASE 3 EXCAVATION, + PHASE 2 + PHASE 3 ROCK EXCAVATION, + PIPE EXCAVATION + STRUCTURE REMOVAL + TOPSOIL + UDRAIN EXCAVATION)	0 CY	53485 CY	0 CY

NOTE: MATERIAL MAY BE WASTED IN THE EXISTING RAMP 7 AREA (I-95 SB TO US 202 SB) AFTER RELOCATED RAMP 7 HAS BEEN OPENED TO TRAFFIC

UNOFFICIAL WEBSITE COPY

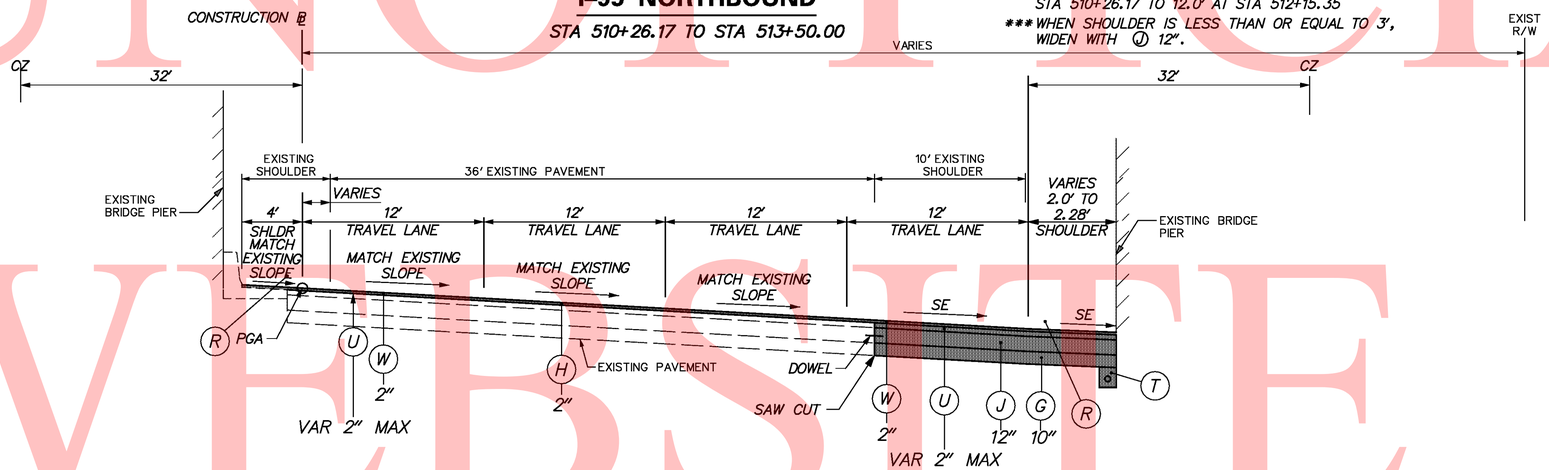


I-95 NORTHBOUND

STA 510+26.17 TO STA 513+50.00

** VARIES FROM 2.28' AT STA 510+26.17 TO 12.0' AT STA 512+15.35

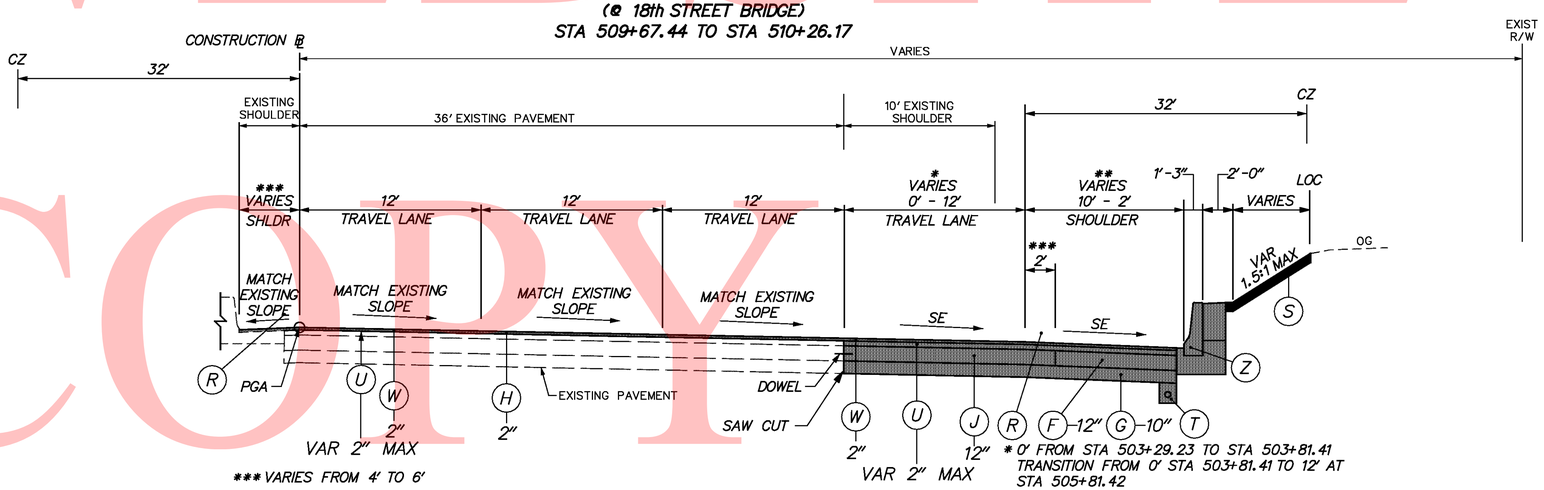
*** WHEN SHOULDER IS LESS THAN OR EQUAL TO 3', WIDEN WITH (J) 12".



I-95 NORTHBOUND

(@ 18th STREET BRIDGE)

STA 509+67.44 TO STA 510+26.17



*** VARIES FROM 4' TO 6'

I-95 NORTHBOUND

STA 503+29.23 TO STA 509+67.44

* 0' FROM STA 503+29.23 TO STA 503+81.41 TRANSITION FROM 0' STA 503+81.41 TO 12' AT STA 505+81.42

** 10' FROM STA 503+80.91 TO STA 508+27.36 TRANSITION FROM 10' AT STA 508+27.36 TO 2.00' AT STA 509+67.44.

*** WHEN SHOULDER IS LESS THAN OR EQUAL TO 3', WIDEN WITH (J) 12".

LEGEND

- (A) ITEM 401711 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)
- (B) ITEM 401660 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 76-22
- (D) ITEM 401669 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 64-22, WEDGE
- (F) ITEM 401663 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 760508 - PROFILE MILLING, HOT-MIX
- (I) ITEM 501004 - PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (J) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
- (K) ITEM 501526 - PATTERNED PORTLAND CEMENT CONCRETE PAVEMENT, 8"
- (L) ITEM 701010- PORTLAND CEMENT CONCRETE CURB, TYPE 1 (WITHOUT GUARDRAIL INSTALLATION)
- (M) GUARDRAIL MAINTENANCE STRIP, SEE CONSTRUCTION DETAIL
- (N) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 3 (WITH GUARDRAIL INSTALLATION)
- (O) ITEM 712527 - TURF REINFORCING MAT
- (P) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (DITCH LINING)
- (Q) ITEM 701500 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL
- (R) ITEM 760504 - RUMBLE STRIPS, HOT MIX
- (S) ITEM 732002 - TOPSOIL, 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
  ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (SLOPES STEEPER THAN 2:1)
- (T) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
- (U) ITEM 401577 - PAVER-LAID ULTRATHIN HOT MIX
- (V) ITEM 209006 - TYPE F BORROW
- (W) ITEM 401517 - STONE MATRIX ASPHALT WEARING SURFACE
- (Y) ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1
- (Z) ITEM 720529 - SAFETY BARRIER, PERMANENT, SINGLE FACE, SEE CONSTRUCTION DETAIL

NOTE:
OUTSIDE SHOULDER WIDTHS 12' OR GREATER INCLUDE A 2' OFFSET.
INSIDE SHOULDER WIDTHS 8' OR GREATER INCLUDE A 2' OFFSET.

MAXIMUM SINGLE LIFT OF PAVING MATERIAL

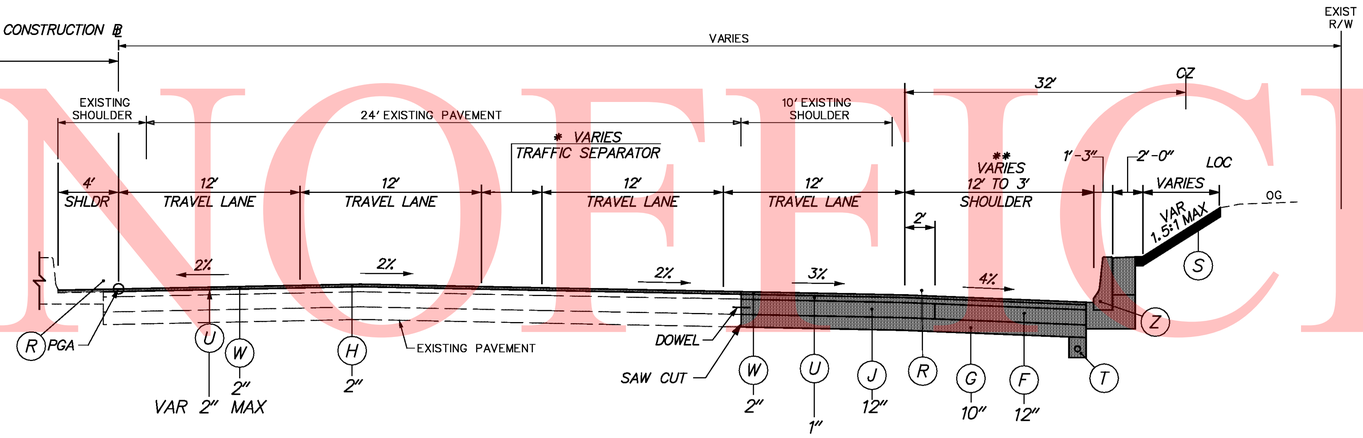
TYPE C HOT-MIX: 2" DEPTH
TYPE B HOT-MIX: 3" DEPTH
BITUMINOUS CONCRETE BASE COURSE: 6" DEPTH
GRADED AGGREGATE BASE COURSE: 6" DEPTH

UNOFFICIAL WEBSITE COPY

Y:\Projects\Del4i-202\Del95 Cont 5\Typicals\95ts02C5-I95NB.dgn

3/24/2011

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	TYPICALS TS 1 OF 26	SHEET NO. 7
			COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
				CHECKED BY: BMD		

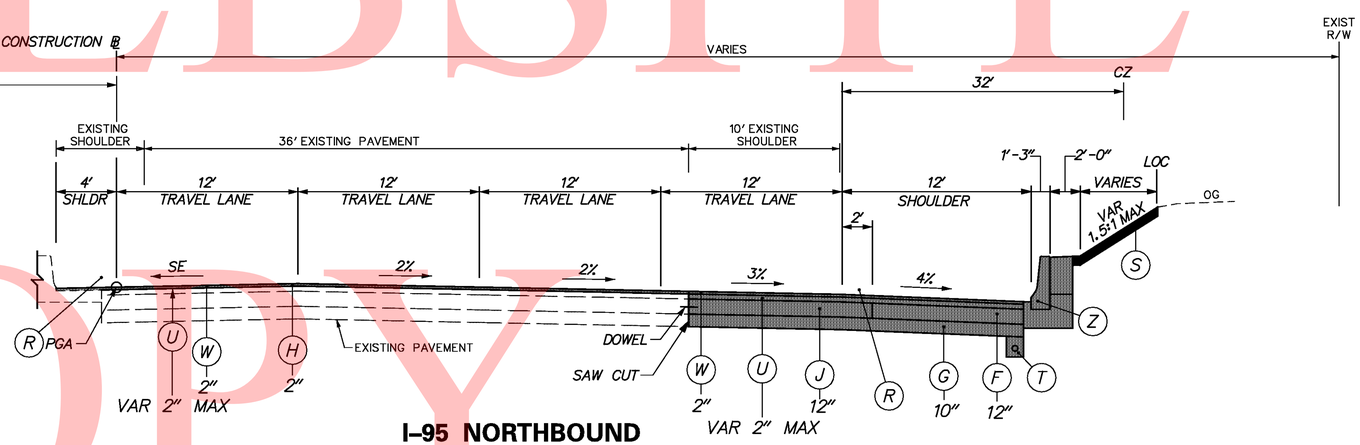


I-95 NORTHBOUND

STA 515+30.00 TO STA 518+57.14

* TRANSITION FROM 0' AT STA 515+30.00 TO 2' AT STA 516+50.00

** TRANSITION FROM 12.0' AT STA 517+87.82 TO 3.0' AT STA 519+63.06



I-95 NORTHBOUND

STA 513+50.00 TO STA 515+30.00

LEGEND

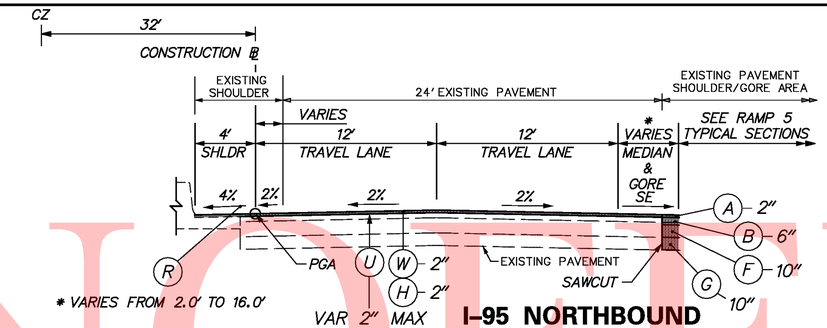
- (A) ITEM 401711 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)
- (B) ITEM 401660 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 76-22
- (D) ITEM 401669 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 64-22, WEDGE
- (F) ITEM 401663 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 760508 - PROFILE MILLING, HOT-MIX
- (I) ITEM 501004 - PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (J) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
- (K) ITEM 501526 - PATTERNED PORTLAND CEMENT CONCRETE PAVEMENT, 8"
- (L) ITEM 701010- PORTLAND CEMENT CONCRETE CURB, TYPE 1 (WITHOUT GUARDRAIL INSTALLATION)
- (M) GUARDRAIL MAINTENANCE STRIP, SEE CONSTRUCTION DETAIL
- (N) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 3 (WITH GUARDRAIL INSTALLATION)
- (O) ITEM 712527 - TURF REINFORCING MAT
- (P) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (DITCH LINING)
- (Q) ITEM 701500 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL
- (R) ITEM 760504 - RUMBLE STRIPS, HOT MIX
- (S) ITEM 732002 - TOPSOIL, 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
  ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (SLOPES STEEPER THAN 2:1)
- (T) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
- (U) ITEM 401577 - PAVER-LAID ULTRATHIN HOT MIX
- (V) ITEM 209006 - TYPE F BORROW
- (W) ITEM 401517 - STONE MATRIX ASPHALT WEARING SURFACE
- (Y) ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1
- (Z) ITEM 720529 - SAFETY BARRIER, PERMANENT, SINGLE FACE, SEE CONSTRUCTION DETAIL

NOTE:
OUTSIDE SHOULDER WIDTHS 12' OR GREATER INCLUDE A 2' OFFSET.
INSIDE SHOULDER WIDTHS 8' OR GREATER INCLUDE A 2' OFFSET.

MAXIMUM SINGLE LIFT OF PAVING MATERIAL

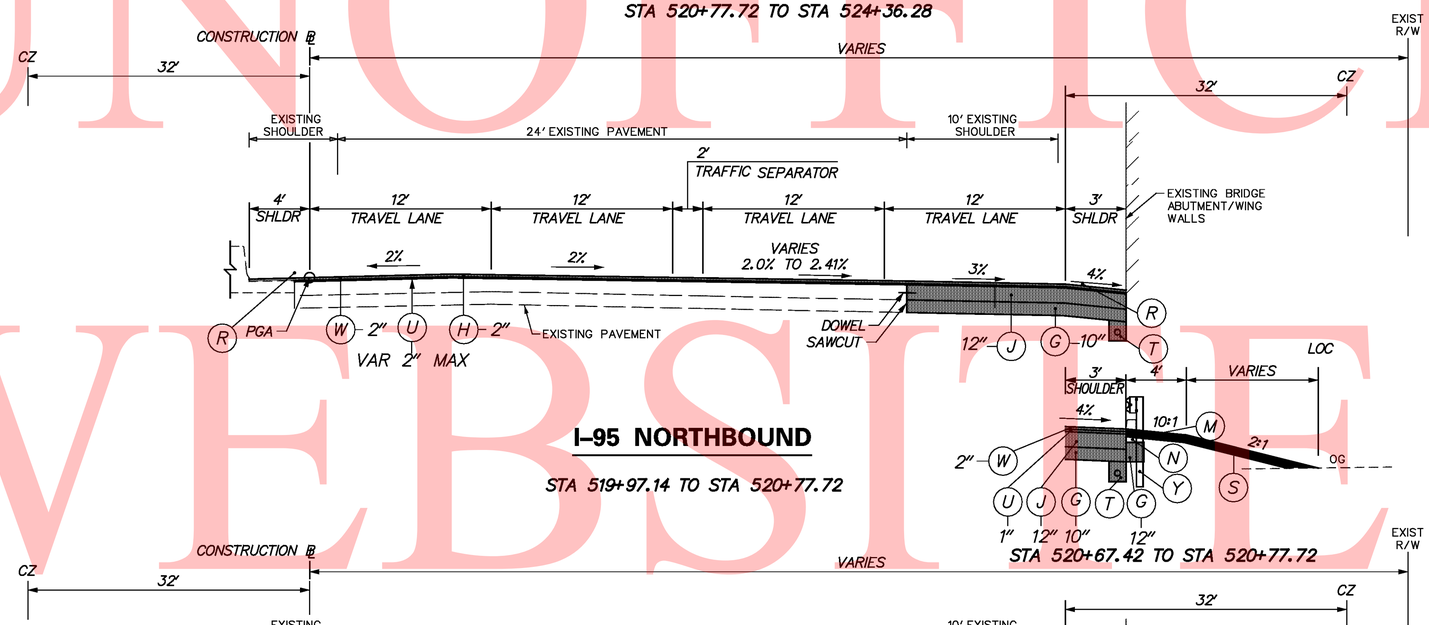
TYPE C HOT-MIX: 2" DEPTH
TYPE B HOT-MIX: 3" DEPTH
BITUMINOUS CONCRETE BASE COURSE: 6" DEPTH
GRADED AGGREGATE BASE COURSE: 6" DEPTH

UNOFFICIAL WEBSITE COPY



I-95 NORTHBOUND

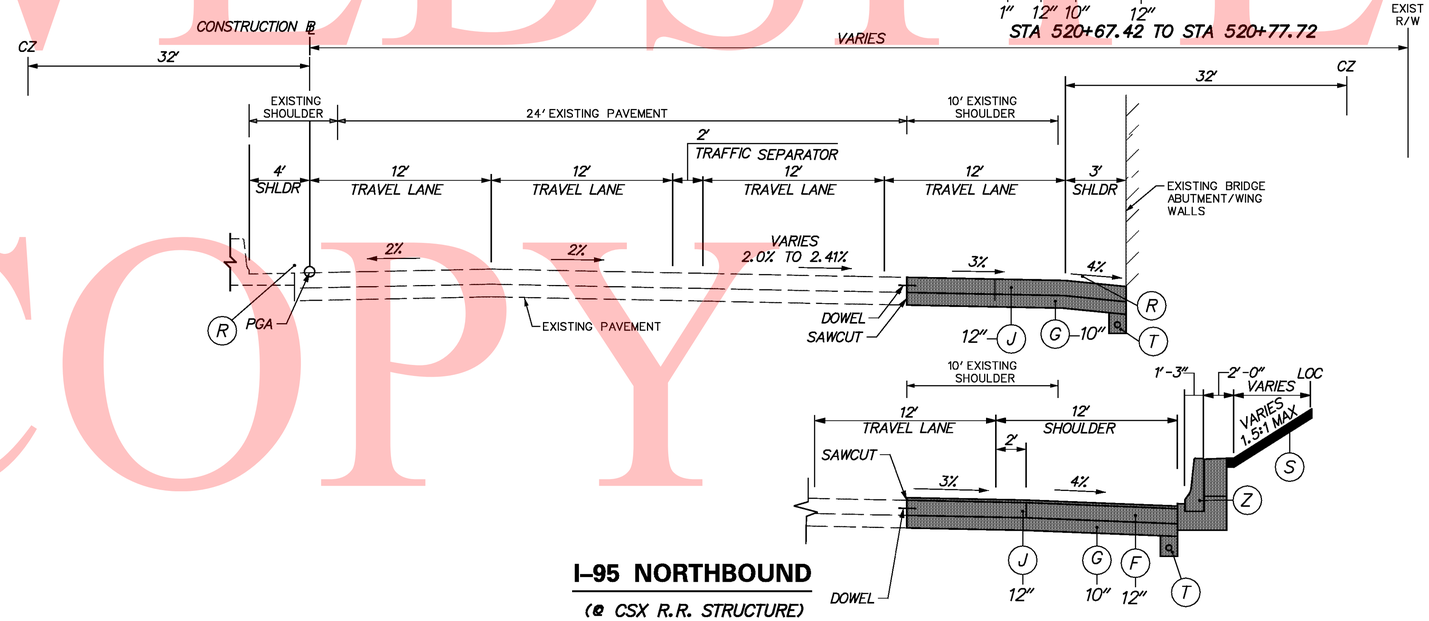
STA 520+77.72 TO STA 524+36.28



I-95 NORTHBOUND

STA 519+97.14 TO STA 520+77.72

STA 520+67.42 TO STA 520+77.72



I-95 NORTHBOUND

(@ CSX R.R. STRUCTURE)

STA 518+57.14 TO STA 519+97.14

STA 518+57.14 TO STA 519+97.14

LEGEND

- (A) ITEM 401711 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)
- (B) ITEM 401660 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 76-22
- (D) ITEM 401669 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 64-22, WEDGE
- (F) ITEM 401663 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 760508 - PROFILE MILLING, HOT-MIX
- (I) ITEM 501004 - PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (J) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
- (K) ITEM 501526 - PATTERNED PORTLAND CEMENT CONCRETE PAVEMENT, 8"
- (L) ITEM 701010- PORTLAND CEMENT CONCRETE CURB, TYPE 1 (WITHOUT GUARDRAIL INSTALLATION)
- (M) GUARDRAIL MAINTENANCE STRIP, SEE CONSTRUCTION DETAIL
- (N) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 3 (WITH GUARDRAIL INSTALLATION)
- (O) ITEM 712527 - TURF REINFORCING MAT
- (P) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (DITCH LINING)
- (Q) ITEM 701500 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL
- (R) ITEM 760504 - RUMBLE STRIPS, HOT MIX
- (S) ITEM 732002 - TOPSOIL, 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
  ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (SLOPES STEEPER THAN 2:1)
- (T) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
- (U) ITEM 401577 - PAVER-LAID ULTRATHIN HOT MIX
- (V) ITEM 209006 - TYPE F BORROW
- (W) ITEM 401517 - STONE MATRIX ASPHALT WEARING SURFACE
- (Y) ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1
- (Z) ITEM 720529 - SAFETY BARRIER, PERMANENT, SINGLE FACE, SEE CONSTRUCTION DETAIL

NOTE:
OUTSIDE SHOULDER WIDTHS 12' OR GREATER INCLUDE A 2' OFFSET.
INSIDE SHOULDER WIDTHS 8' OR GREATER INCLUDE A 2' OFFSET.

MAXIMUM SINGLE LIFT OF PAVING MATERIAL

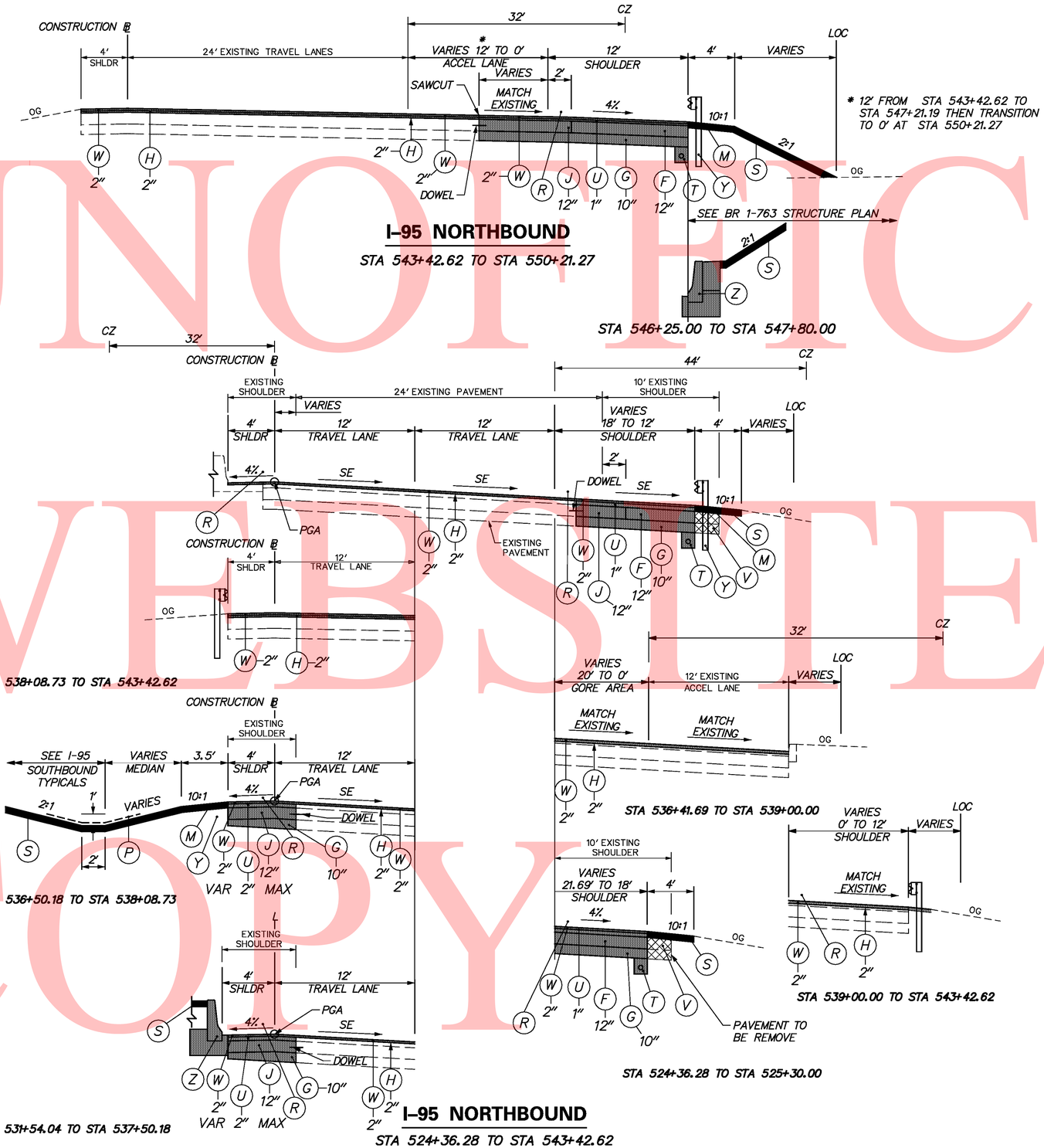
TYPE C HOT-MIX: 2" DEPTH
TYPE B HOT-MIX: 3" DEPTH
BITUMINOUS CONCRETE BASE COURSE: 6" DEPTH
GRADED AGGREGATE BASE COURSE: 6" DEPTH

UNOFFICIAL WEBSITE COPY

Y:\Projects\Del4I-202\Del95 Cont 5\Typicals\95ts0205-195NB.dgn

3/24/2011

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	TYPICALS TS 3 OF 26	SHEET NO. 9
			COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
				CHECKED BY: BMD		



LEGEND

- (A) ITEM 401711 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)
- (B) ITEM 401660 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 76-22
- (D) ITEM 401669 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 64-22, WEDGE
- (F) ITEM 401663 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 760508 - PROFILE MILLING, HOT-MIX
- (I) ITEM 501004 - PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (J) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
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- (L) ITEM 701010- PORTLAND CEMENT CONCRETE CURB, TYPE 1 (WITHOUT GUARDRAIL INSTALLATION)
- (M) GUARDRAIL MAINTENANCE STRIP, SEE CONSTRUCTION DETAIL
- (N) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 3 (WITH GUARDRAIL INSTALLATION)
- (O) ITEM 712527 - TURF REINFORCING MAT
- (P) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (DITCH LINING)
- (Q) ITEM 701500 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL
- (R) ITEM 760504 - RUMBLE STRIPS, HOT MIX
- (S) ITEM 732002 - TOPSOIL, 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
  ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (SLOPES STEEPER THAN 2:1)
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- (V) ITEM 209006 - TYPE F BORROW
- (W) ITEM 401517 - STONE MATRIX ASPHALT WEARING SURFACE
- (Y) ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1
- (Z) ITEM 720529 - SAFETY BARRIER, PERMANENT, SINGLE FACE, SEE CONSTRUCTION DETAIL

NOTE:
OUTSIDE SHOULDER WIDTHS 12' OR GREATER INCLUDE A 2' OFFSET.
INSIDE SHOULDER WIDTHS 8' OR GREATER INCLUDE A 2' OFFSET.

MAXIMUM SINGLE LIFT OF PAVING MATERIAL

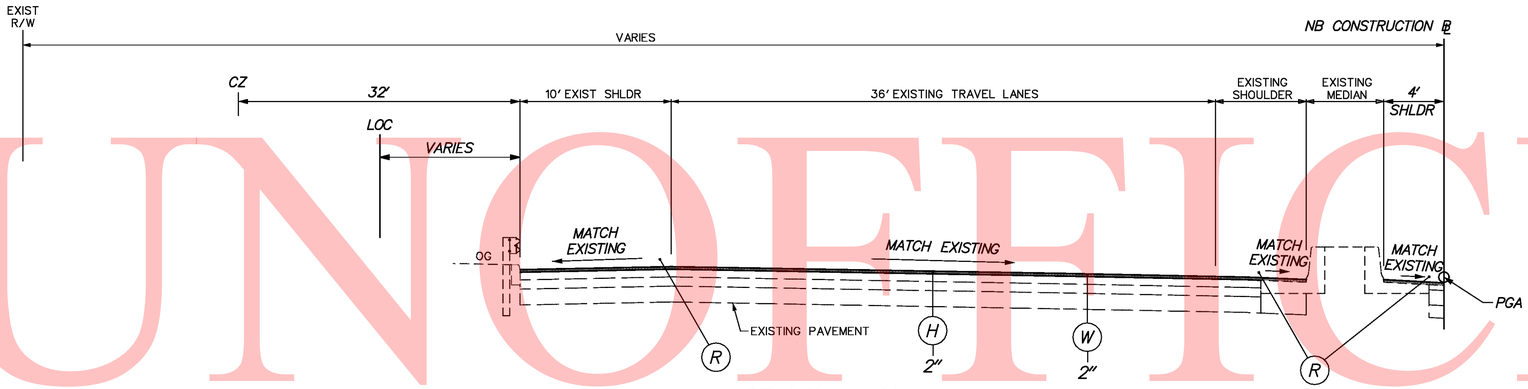
TYPE C HOT-MIX: 2" DEPTH
TYPE B HOT-MIX: 3" DEPTH
BITUMINOUS CONCRETE BASE COURSE: 6" DEPTH
GRADED AGGREGATE BASE COURSE: 6" DEPTH

UNOFFICIAL WEBSITE COPY

Y:\Projects\Del4I-202\Del195 Cont 5\Typicals\95ts0205-195NB.dgn

3/24/2011

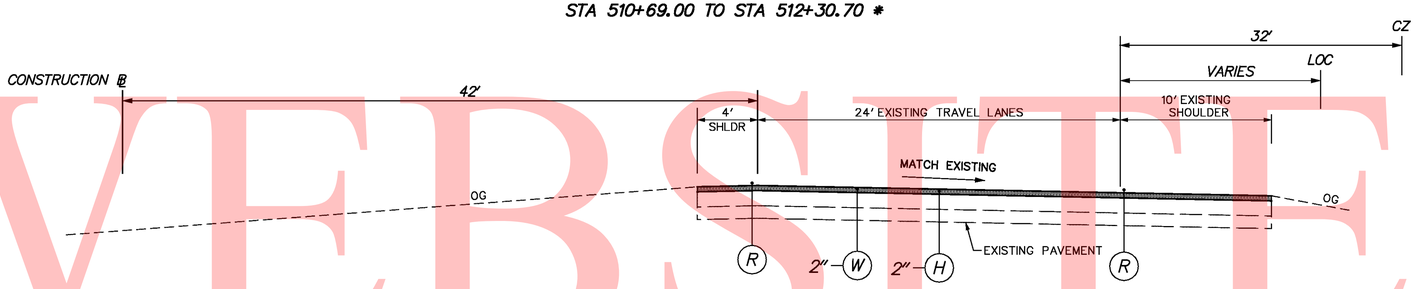
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	TYPICALS	SHEET NO. 10
			COUNTY NEW CASTLE	DESIGNED BY: DAG	TS 4 OF 26	TOTAL SHTS. 482
				CHECKED BY: BMD		



I-95 SOUTHBOUND
(STATIONED FROM I-95 NB ALIGNMENT)

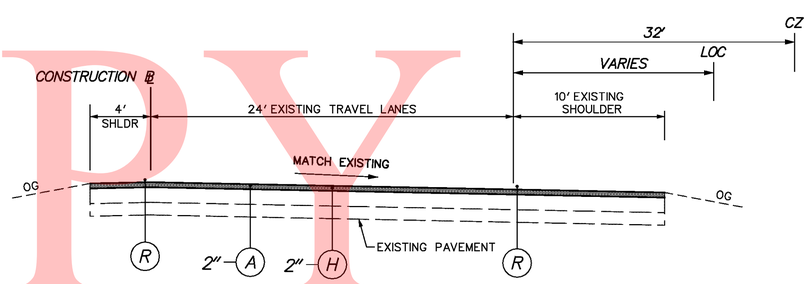
STA 503+80.43 TO STA 509+91.00 *
STA 510+69.00 TO STA 512+30.70 *

* STATION LIMITS ARE APPROXIMATE, MATCH THE EXISTING OVERLAY LIMITS ON I-95 SB UNDER THE 18TH STREET BRIDGE



I-95 NORTHBOUND

STA 297+66.36 TO STA 299+13.00



I-95 NORTHBOUND

STA 550+21.27 TO STA 551+03.37

LEGEND

- (A) ITEM 401711 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)
- (B) ITEM 401660 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 76-22
- (D) ITEM 401669 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 64-22, WEDGE
- (F) ITEM 401663 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 760508 - PROFILE MILLING, HOT-MIX
- (I) ITEM 501004 - PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (J) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
- (K) ITEM 501526 - PATTERNED PORTLAND CEMENT CONCRETE PAVEMENT, 8"
- (L) ITEM 701010- PORTLAND CEMENT CONCRETE CURB, TYPE 1 (WITHOUT GUARDRAIL INSTALLATION)
- (M) GUARDRAIL MAINTENANCE STRIP, SEE CONSTRUCTION DETAIL
- (N) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 3 (WITH GUARDRAIL INSTALLATION)
- (O) ITEM 712527 - TURF REINFORCING MAT
- (P) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (DITCH LINING)
- (Q) ITEM 701500 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL
- (R) ITEM 760504 - RUMBLE STRIPS, HOT MIX
- (S) ITEM 732002 - TOPSOIL, 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
  ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (SLOPES STEEPER THAN 2:1)
- (T) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
- (U) ITEM 401577 - PAVER-LAID ULTRATHIN HOT MIX
- (V) ITEM 209006 - TYPE F BORROW
- (W) ITEM 401517 - STONE MATRIX ASPHALT WEARING SURFACE
- (Y) ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1
- (Z) ITEM 720529 - SAFETY BARRIER, PERMANENT, SINGLE FACE, SEE CONSTRUCTION DETAIL

NOTE:
OUTSIDE SHOULDER WIDTHS 12' OR GREATER INCLUDE A 2' OFFSET.
INSIDE SHOULDER WIDTHS 8' OR GREATER INCLUDE A 2' OFFSET.

MAXIMUM SINGLE LIFT OF PAVING MATERIAL

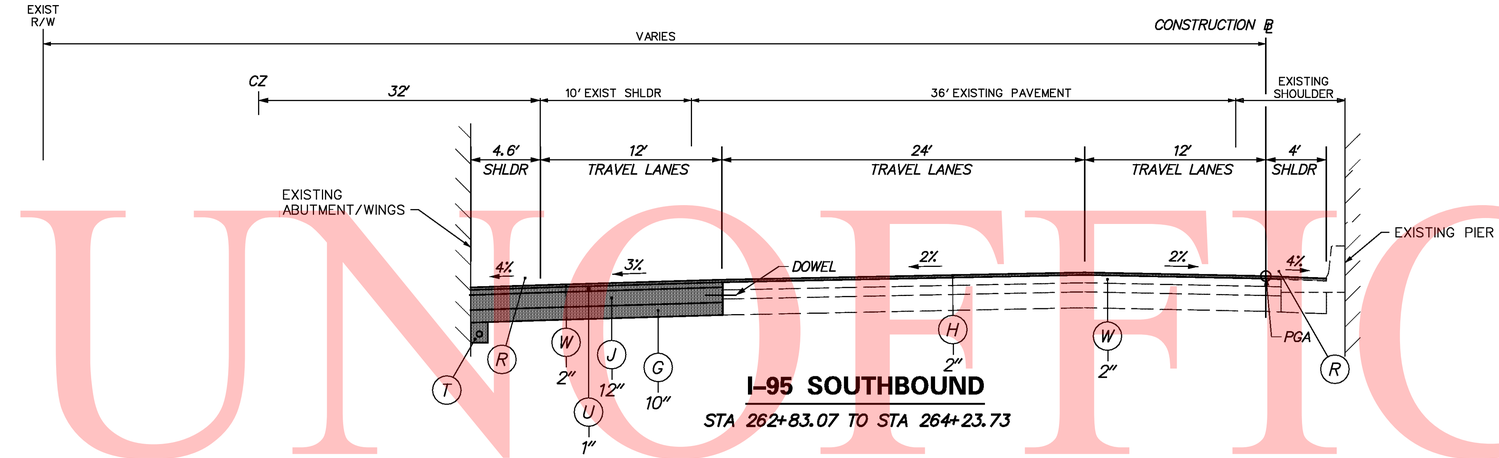
TYPE C HOT-MIX: 2" DEPTH
TYPE B HOT-MIX: 3" DEPTH
BITUMINOUS CONCRETE BASE COURSE: 6" DEPTH
GRADED AGGREGATE BASE COURSE: 6" DEPTH

UNOFFICIAL WEBSITE COPY

Y:\Projects\Del141-202\Del95 Cont 5\Typicals\95ts0205-I95NB.dgn

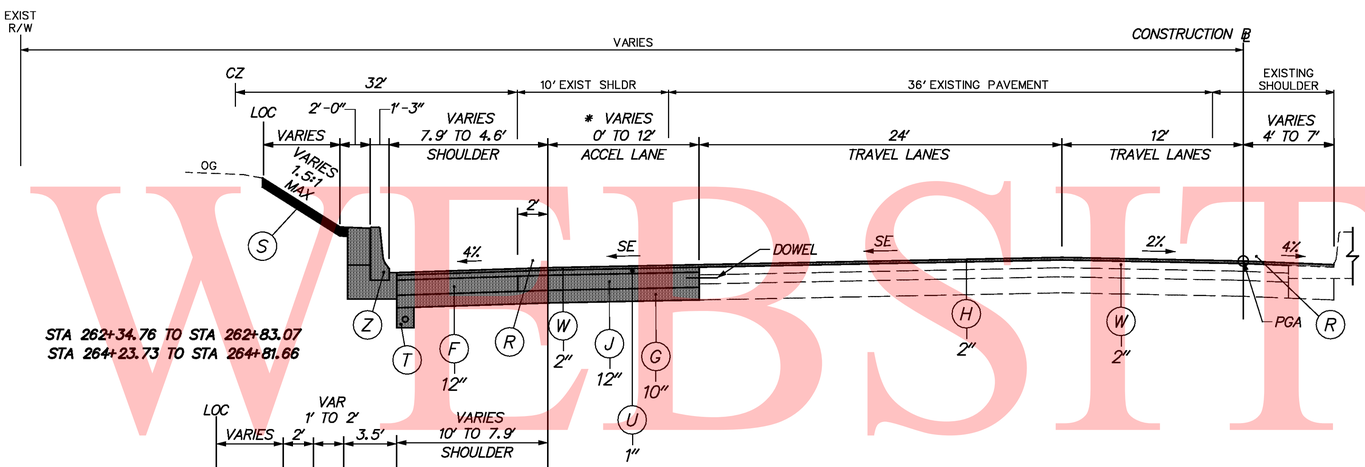
3/24/2011

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	TYPICALS TS 5 OF 26	SHEET NO. 11
			COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
				CHECKED BY: BMD		

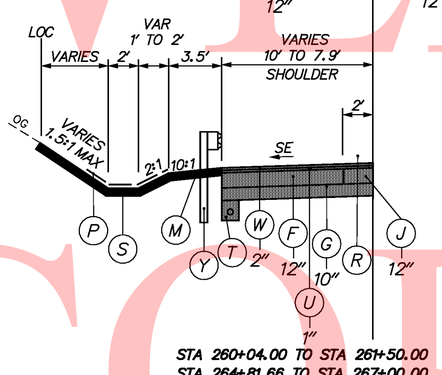


I-95 SOUTHBOUND

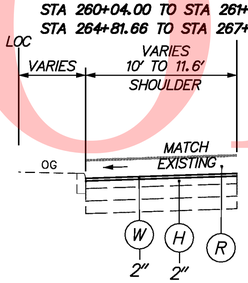
STA 262+83.07 TO STA 264+23.73



STA 262+34.76 TO STA 262+83.07
STA 264+23.73 TO STA 264+81.66



STA 260+04.00 TO STA 261+50.00
STA 264+81.66 TO STA 267+00.00



STA 258+72.63 TO STA 260+04.00

I-95 SOUTHBOUND

STA 258+72.63 TO STA 262+83.07
STA 264+24.00 TO STA 267+00.00

* TRANSITION FROM 0' AT STA 259+34.84 TO 12' AT STA 259+34.84

LEGEND

- (A) ITEM 401711 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)
- (B) ITEM 401660 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 76-22
- (D) ITEM 401669 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 64-22, WEDGE
- (F) ITEM 401663 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 760508 - PROFILE MILLING, HOT-MIX
- (I) ITEM 501004 - PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (J) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
- (K) ITEM 501526 - PATTERNED PORTLAND CEMENT CONCRETE PAVEMENT, 8"
- (L) ITEM 701010- PORTLAND CEMENT CONCRETE CURB, TYPE 1 (WITHOUT GUARDRAIL INSTALLATION)
- (M) GUARDRAIL MAINTENANCE STRIP, SEE CONSTRUCTION DETAIL
- (N) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 3 (WITH GUARDRAIL INSTALLATION)
- (O) ITEM 712527 - TURF REINFORCING MAT
- (P) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (DITCH LINING)
- (Q) ITEM 701500 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL
- (R) ITEM 760504 - RUMBLE STRIPS, HOT MIX
- (S) ITEM 732002 - TOPSOIL, 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
  ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (SLOPES STEEPER THAN 2:1)
- (T) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
- (U) ITEM 401577 - PAVER-LAID ULTRATHIN HOT MIX
- (V) ITEM 209006 - TYPE F BORROW
- (W) ITEM 401517 - STONE MATRIX ASPHALT WEARING SURFACE
- (Y) ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1
- (Z) ITEM 720529 - SAFETY BARRIER, PERMANENT, SINGLE FACE, SEE CONSTRUCTION DETAIL

NOTE:
OUTSIDE SHOULDER WIDTHS 12' OR GREATER INCLUDE A 2' OFFSET.
INSIDE SHOULDER WIDTHS 8' OR GREATER INCLUDE A 2' OFFSET.

MAXIMUM SINGLE LIFT OF PAVING MATERIAL

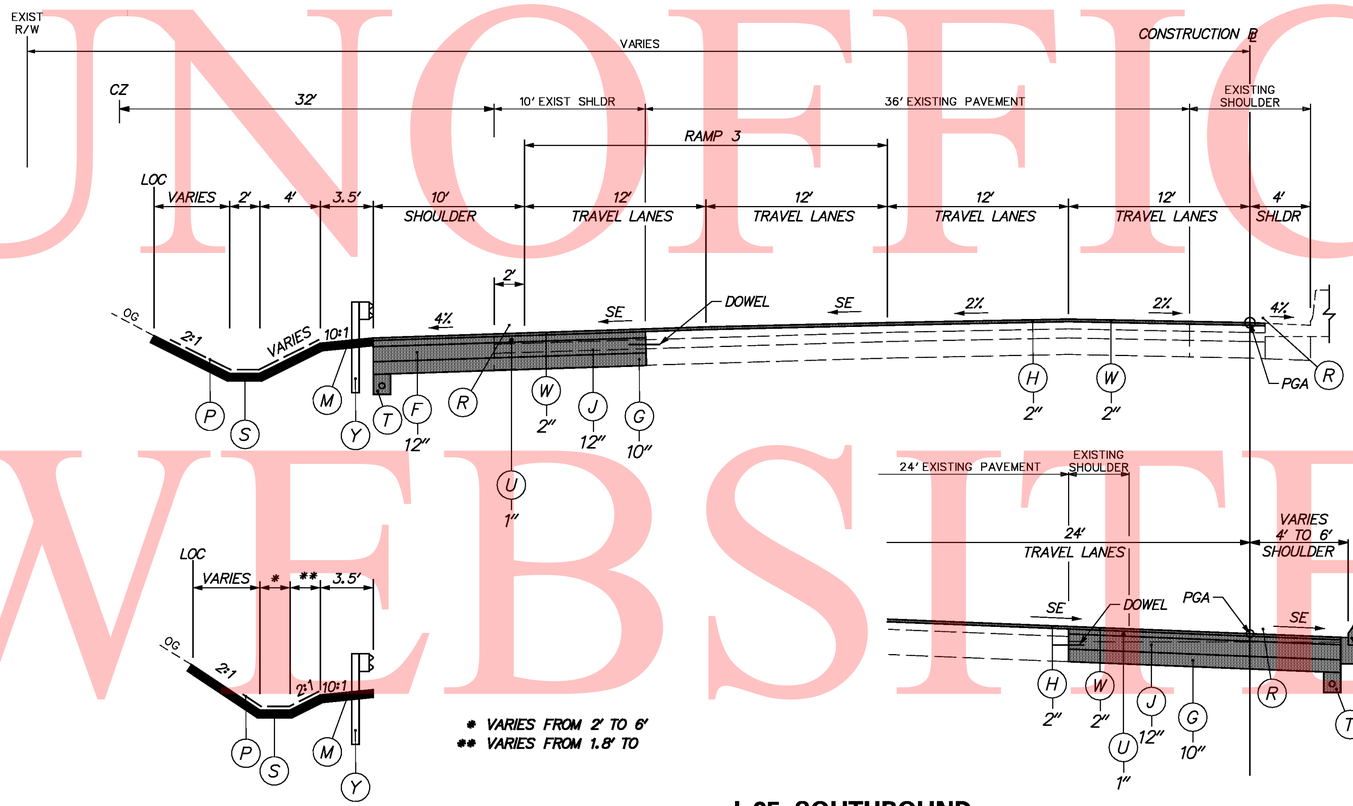
TYPE C HOT-MIX: 2" DEPTH
TYPE B HOT-MIX: 3" DEPTH
BITUMINOUS CONCRETE BASE COURSE: 6" DEPTH
GRADED AGGREGATE BASE COURSE: 6" DEPTH

UNOFFICIAL WEBSITE COPY

Y:\Projects\Del41-202\Del95 Cont 5\Typicals\195fs01C5-1955B.dgn

3/24/2011

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	TYPICALS	SHEET NO. 12
				COUNTY NEW CASTLE	DESIGNED BY: DAG	TS 6 OF 26	TOTAL SHTS. 482
					CHECKED BY: BMD		



STA 267+00.00 TO STA 269+05.00
STA 273+00.00 TO STA 274+75.00

I-95 SOUTHBOUND

STA 267+00.00 TO STA 277+99.37

STA 276+00.00 TO STA 277+99.37

STA 269+00.00 TO STA 273+00.00

LEGEND

- (A) ITEM 401711 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)
- (B) ITEM 401660 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 76-22
- (D) ITEM 401669 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 64-22, WEDGE
- (F) ITEM 401663 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 760508 - PROFILE MILLING, HOT-MIX
- (I) ITEM 501004 - PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (J) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
- (K) ITEM 501526 - PATTERNED PORTLAND CEMENT CONCRETE PAVEMENT, 8"
- (L) ITEM 701010- PORTLAND CEMENT CONCRETE CURB, TYPE 1 (WITHOUT GUARDRAIL INSTALLATION)
- (M) GUARDRAIL MAINTENANCE STRIP, SEE CONSTRUCTION DETAIL
- (N) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 3 (WITH GUARDRAIL INSTALLATION)
- (O) ITEM 712527 - TURF REINFORCING MAT
- (P) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (DITCH LINING)
- (Q) ITEM 701500 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL
- (R) ITEM 760504 - RUMBLE STRIPS, HOT MIX
- (S) ITEM 732002 - TOPSOIL, 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
  ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (SLOPES STEEPER THAN 2:1)
- (T) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
- (U) ITEM 401577 - PAVER-LAID ULTRATHIN HOT MIX
- (V) ITEM 209006 - TYPE F BORROW
- (W) ITEM 401517 - STONE MATRIX ASPHALT WEARING SURFACE
- (Y) ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1
- (Z) ITEM 720529 - SAFETY BARRIER, PERMANENT, SINGLE FACE, SEE CONSTRUCTION DETAIL

NOTE:
OUTSIDE SHOULDER WIDTHS 12' OR GREATER INCLUDE A 2' OFFSET.
INSIDE SHOULDER WIDTHS 8' OR GREATER INCLUDE A 2' OFFSET.

MAXIMUM SINGLE LIFT OF PAVING MATERIAL

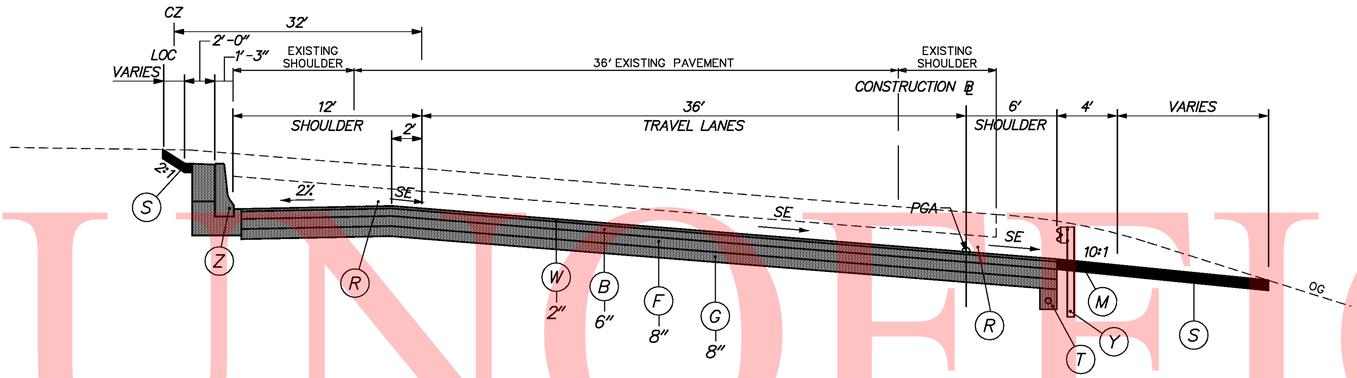
TYPE C HOT-MIX: 2" DEPTH
TYPE B HOT-MIX: 3" DEPTH
BITUMINOUS CONCRETE BASE COURSE: 6" DEPTH
GRADED AGGREGATE BASE COURSE: 6" DEPTH

UNOFFICIAL WEBSITE COPY

Y:\Projects\Del4I-202\Del195 Cont 5\Typicals\951ts0105-19558.dgn

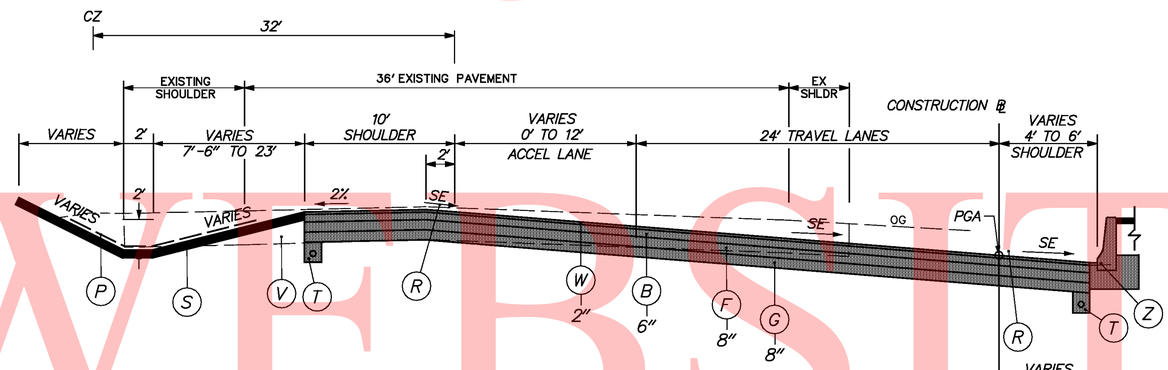
3/24/2011

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	TYPICALS TS 7 OF 26	SHEET NO. 13
				COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
					CHECKED BY: BMD		



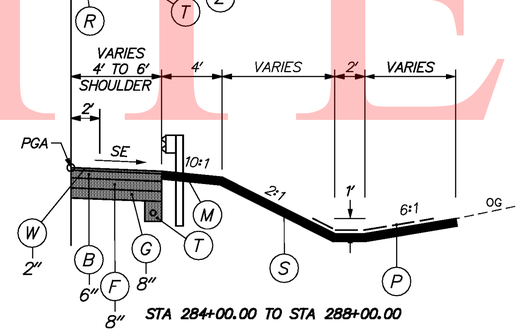
I-95 SOUTHBOUND

STA 288+00.00 TO STA 289+37.95

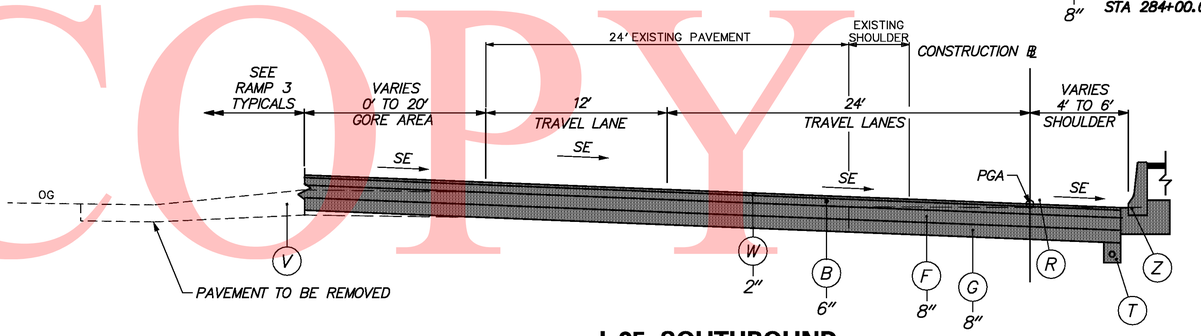


I-95 SOUTHBOUND

STA 282+17.95 TO STA 288+00.00



STA 284+00.00 TO STA 288+00.00



I-95 SOUTHBOUND

STA 277+99.37 TO STA 282+17.95

LEGEND

- (A) ITEM 401711 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)
- (B) ITEM 401660 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 76-22
- (D) ITEM 401669 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 64-22, WEDGE
- (F) ITEM 401663 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 760508 - PROFILE MILLING, HOT-MIX
- (I) ITEM 501004 - PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (J) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
- (K) ITEM 501526 - PATTERNED PORTLAND CEMENT CONCRETE PAVEMENT, 8"
- (L) ITEM 701010- PORTLAND CEMENT CONCRETE CURB, TYPE 1 (WITHOUT GUARDRAIL INSTALLATION)
- (M) GUARDRAIL MAINTENANCE STRIP, SEE CONSTRUCTION DETAIL
- (N) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 3 (WITH GUARDRAIL INSTALLATION)
- (O) ITEM 712527 - TURF REINFORCING MAT
- (P) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (DITCH LINING)
- (Q) ITEM 701500 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL
- (R) ITEM 760504 - RUMBLE STRIPS, HOT MIX
- (S) ITEM 732002 - TOPSOIL, 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
  ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (SLOPES STEEPER THAN 2:1)
- (T) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
- (U) ITEM 401577 - PAVER-LAID ULTRATHIN HOT MIX
- (V) ITEM 209006 - TYPE F BORROW
- (W) ITEM 401517 - STONE MATRIX ASPHALT WEARING SURFACE
- (Y) ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1
- (Z) ITEM 720529 - SAFETY BARRIER, PERMANENT, SINGLE FACE, SEE CONSTRUCTION DETAIL

NOTE:
OUTSIDE SHOULDER WIDTHS 12' OR GREATER INCLUDE A 2' OFFSET.
INSIDE SHOULDER WIDTHS 8' OR GREATER INCLUDE A 2' OFFSET.

MAXIMUM SINGLE LIFT OF PAVING MATERIAL

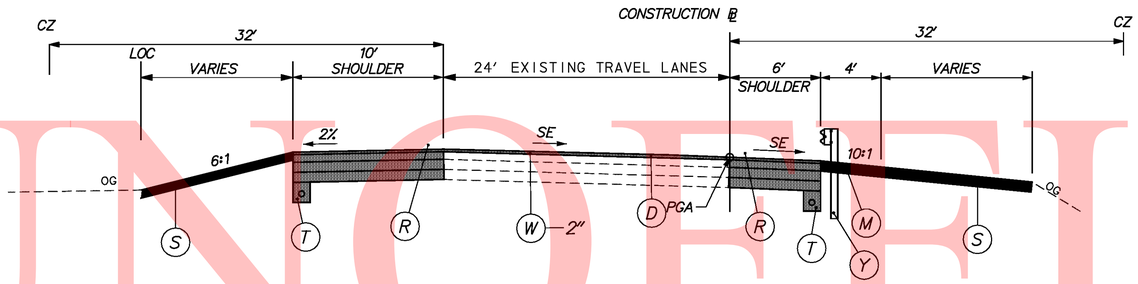
TYPE C HOT-MIX: 2" DEPTH
TYPE B HOT-MIX: 3" DEPTH
BITUMINOUS CONCRETE BASE COURSE: 6" DEPTH
GRADED AGGREGATE BASE COURSE: 6" DEPTH

UNOFFICIAL WEBSITE COPY

Y:\Projects\Del41-202\Del95 Cont 5\Typicals\95ts0105-1955B.dgn

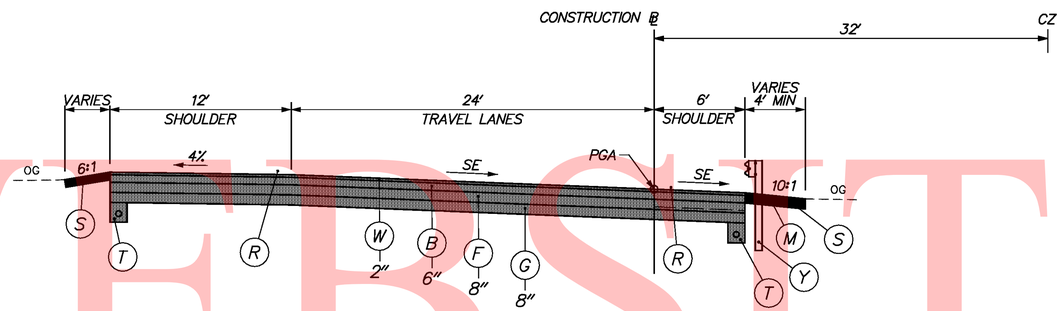
3/24/201

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	TYPICALS	SHEET NO. 14
				COUNTY NEW CASTLE	DESIGNED BY: DAG	TS 8 OF 26	TOTAL SHTS. 482
					CHECKED BY: BMD		



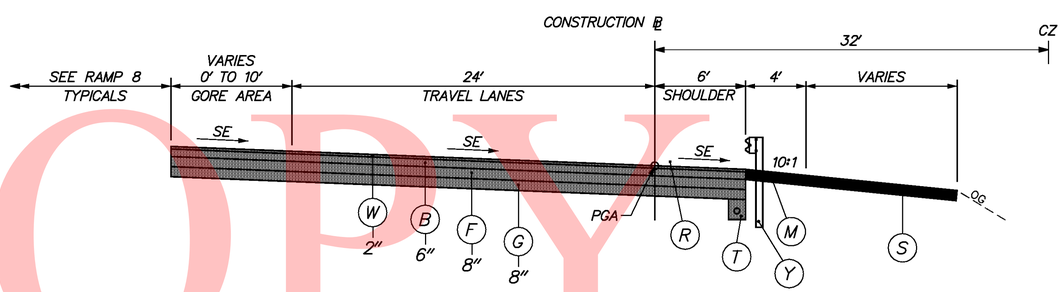
I-95 SOUTHBOUND

STA 294+10.00 TO STA 296+00.00



I-95 SOUTHBOUND

STA 292+45.33 TO STA 294+10.00



I-95 SOUTHBOUND

STA 289+37.95 TO STA 292+45.33

LEGEND

- (A) ITEM 401711 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)
- (B) ITEM 401660 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 76-22
- (D) ITEM 401669 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 64-22, WEDGE
- (F) ITEM 401663 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 760508 - PROFILE MILLING, HOT-MIX
- (I) ITEM 501004 - PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (J) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
- (K) ITEM 501526 - PATTERNED PORTLAND CEMENT CONCRETE PAVEMENT, 8"
- (L) ITEM 701010- PORTLAND CEMENT CONCRETE CURB, TYPE 1 (WITHOUT GUARDRAIL INSTALLATION)
- (M) GUARDRAIL MAINTENANCE STRIP, SEE CONSTRUCTION DETAIL
- (N) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 3 (WITH GUARDRAIL INSTALLATION)
- (O) ITEM 712527 - TURF REINFORCING MAT
- (P) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (DITCH LINING)
- (Q) ITEM 701500 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL
- (R) ITEM 760504 - RUMBLE STRIPS, HOT MIX
- (S) ITEM 732002 - TOPSOIL, 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
  ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (SLOPES STEEPER THAN 2:1)
- (T) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
- (U) ITEM 401577 - PAVER-LAID ULTRATHIN HOT MIX
- (V) ITEM 209006 - TYPE F BORROW
- (W) ITEM 401517 - STONE MATRIX ASPHALT WEARING SURFACE
- (Y) ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1
- (Z) ITEM 720529 - SAFETY BARRIER, PERMANENT, SINGLE FACE, SEE CONSTRUCTION DETAIL

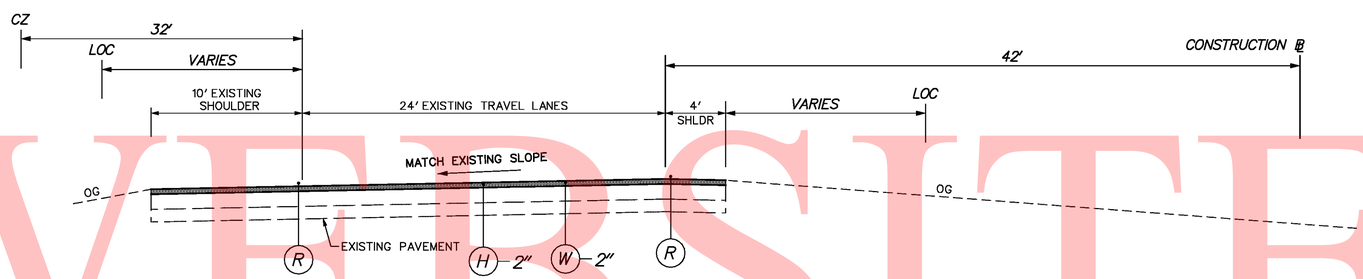
NOTE:
OUTSIDE SHOULDER WIDTHS 12' OR GREATER INCLUDE A 2' OFFSET.
INSIDE SHOULDER WIDTHS 8' OR GREATER INCLUDE A 2' OFFSET.

MAXIMUM SINGLE LIFT OF PAVING MATERIAL

TYPE C HOT-MIX: 2" DEPTH
TYPE B HOT-MIX: 3" DEPTH
BITUMINOUS CONCRETE BASE COURSE: 6" DEPTH
GRADED AGGREGATE BASE COURSE: 6" DEPTH

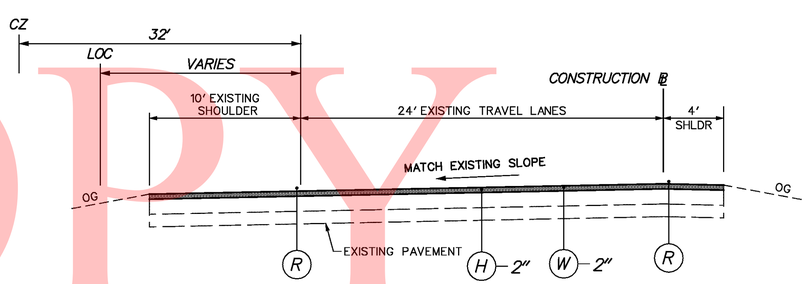
UNOFFICIAL WEBSITE COPY

UNOFFICIAL WEBSITE COPY



I-95 SOUTHBOUND

STA 297+66.36 TO STA 302+69.38
STA 313+29.78 TO STA 316+58.00



I-95 SOUTHBOUND

STA 296+00.00 TO STA 297+10.71

LEGEND

- (A) ITEM 401711 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)
- (B) ITEM 401660 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 76-22
- (D) ITEM 401669 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 64-22, WEDGE
- (F) ITEM 401663 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 760508 - PROFILE MILLING, HOT-MIX
- (I) ITEM 501004 - PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (J) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
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- (L) ITEM 701010- PORTLAND CEMENT CONCRETE CURB, TYPE 1 (WITHOUT GUARDRAIL INSTALLATION)
- (M) GUARDRAIL MAINTENANCE STRIP, SEE CONSTRUCTION DETAIL
- (N) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 3 (WITH GUARDRAIL INSTALLATION)
- (O) ITEM 712527 - TURF REINFORCING MAT
- (P) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (DITCH LINING)
- (Q) ITEM 701500 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL
- (R) ITEM 760504 - RUMBLE STRIPS, HOT MIX
- (S) ITEM 732002 - TOPSOIL, 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
  ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (SLOPES STEEPER THAN 2:1)
- (T) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
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- (V) ITEM 209006 - TYPE F BORROW
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- (Y) ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1
- (Z) ITEM 720529 - SAFETY BARRIER, PERMANENT, SINGLE FACE, SEE CONSTRUCTION DETAIL

NOTE:
OUTSIDE SHOULDER WIDTHS 12' OR GREATER INCLUDE A 2' OFFSET.
INSIDE SHOULDER WIDTHS 8' OR GREATER INCLUDE A 2' OFFSET.

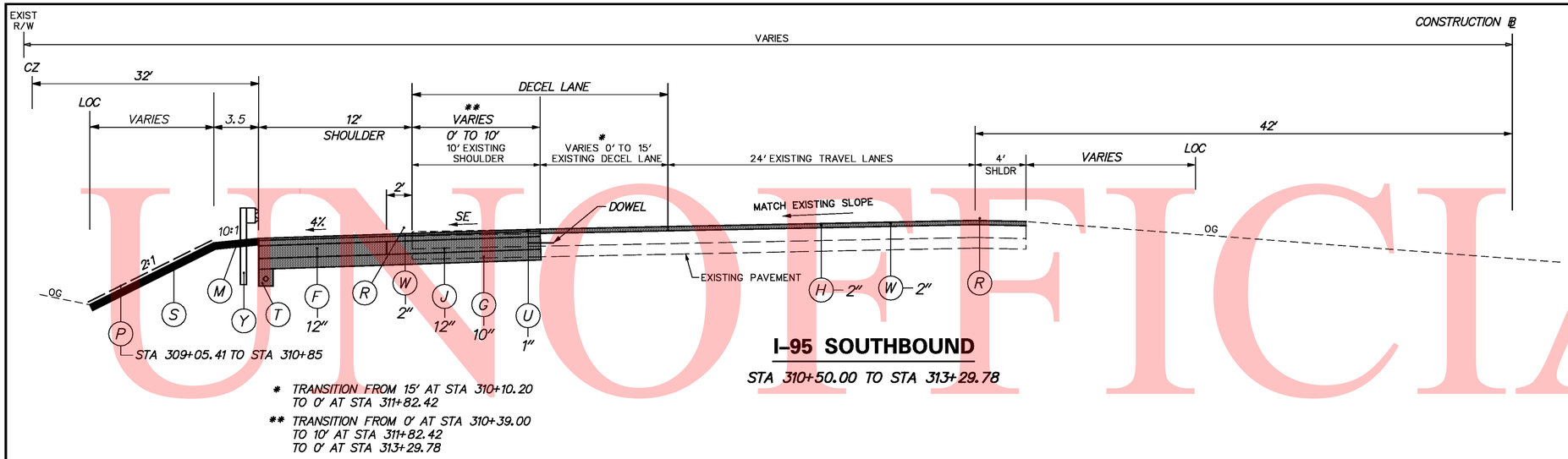
MAXIMUM SINGLE LIFT OF PAVING MATERIAL

TYPE C HOT-MIX: 2" DEPTH
TYPE B HOT-MIX: 3" DEPTH
BITUMINOUS CONCRETE BASE COURSE: 6" DEPTH
GRADED AGGREGATE BASE COURSE: 6" DEPTH

Y:\Projects\Del4I-202\Del95 Cont 5\Typicals\95ts01C5-195SB.dgn

3/24/2011

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	TYPICALS TS 10 OF 26	SHEET NO. 16
			COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
				CHECKED BY: BMD		

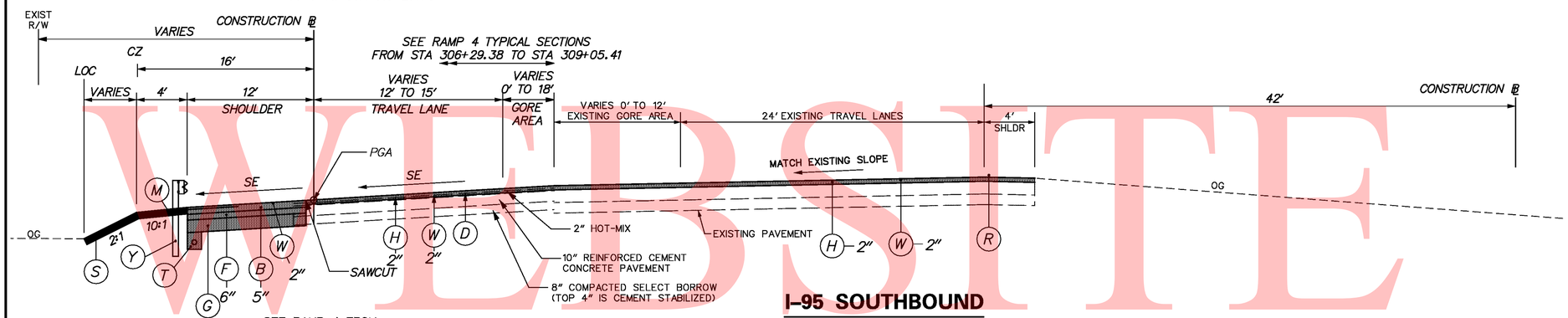


I-95 SOUTHBOUND

STA 310+50.00 TO STA 313+29.78

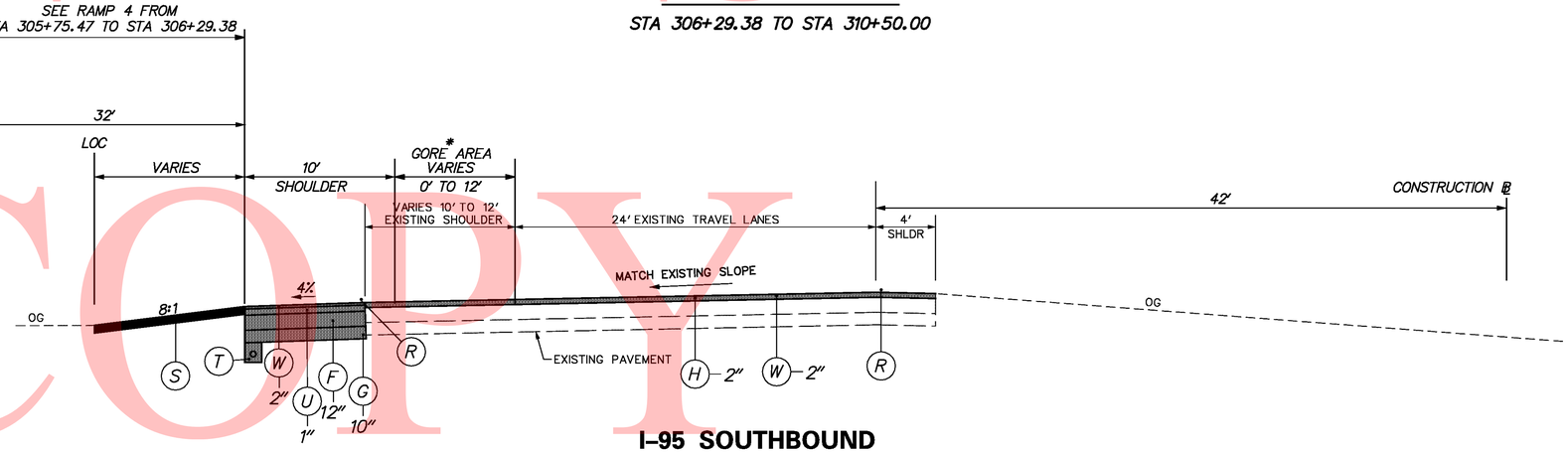
* TRANSITION FROM 15' AT STA 310+10.20 TO 0' AT STA 311+82.42

** TRANSITION FROM 0' AT STA 310+39.00 TO 10' AT STA 311+82.42 TO 0' AT STA 313+29.78



I-95 SOUTHBOUND

STA 306+29.38 TO STA 310+50.00



I-95 SOUTHBOUND

STA 302+69.38 TO STA 306+29.38

* TRANSITION FROM 0' AT STA 302+69.38 TO 12' AT STA 306+29.38

LEGEND

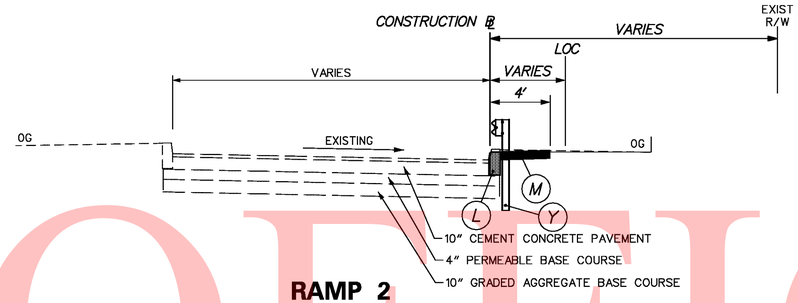
- (A) ITEM 401711 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)
- (B) ITEM 401660 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 76-22
- (D) ITEM 401669 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 64-22, WEDGE
- (F) ITEM 401663 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 760508 - PROFILE MILLING, HOT-MIX
- (I) ITEM 501004 - PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (J) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
- (K) ITEM 501526 - PATTERNED PORTLAND CEMENT CONCRETE PAVEMENT, 8"
- (L) ITEM 701010- PORTLAND CEMENT CONCRETE CURB, TYPE 1 (WITHOUT GUARDRAIL INSTALLATION)
- (M) GUARDRAIL MAINTENANCE STRIP, SEE CONSTRUCTION DETAIL
- (N) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 3 (WITH GUARDRAIL INSTALLATION)
- (O) ITEM 712527 - TURF REINFORCING MAT
- (P) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (DITCH LINING)
- (Q) ITEM 701500 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL
- (R) ITEM 760504 - RUMBLE STRIPS, HOT MIX
- (S) ITEM 732002 - TOPSOIL, 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
  ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (SLOPES STEEPER THAN 2:1)
- (T) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
- (U) ITEM 401577 - PAVER-LAID ULTRATHIN HOT MIX
- (V) ITEM 209006 - TYPE F BORROW
- (W) ITEM 401517 - STONE MATRIX ASPHALT WEARING SURFACE
- (Y) ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1
- (Z) ITEM 720529 - SAFETY BARRIER, PERMANENT, SINGLE FACE, SEE CONSTRUCTION DETAIL

NOTE:
OUTSIDE SHOULDER WIDTHS 12' OR GREATER INCLUDE A 2' OFFSET.
INSIDE SHOULDER WIDTHS 8' OR GREATER INCLUDE A 2' OFFSET.

MAXIMUM SINGLE LIFT OF PAVING MATERIAL

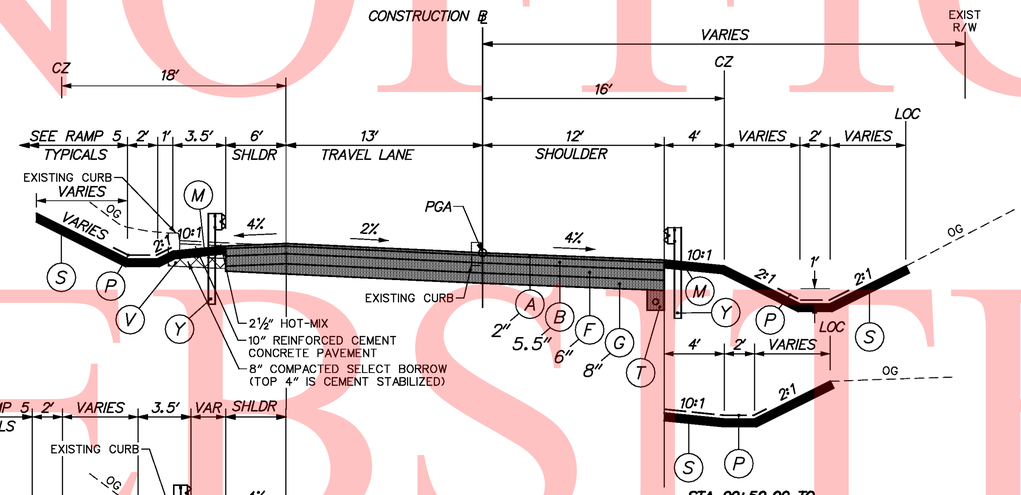
TYPE C HOT-MIX: 2" DEPTH
TYPE B HOT-MIX: 3" DEPTH
BITUMINOUS CONCRETE BASE COURSE: 6" DEPTH
GRADED AGGREGATE BASE COURSE: 6" DEPTH

UNOFFICIAL WEBSITE COPY



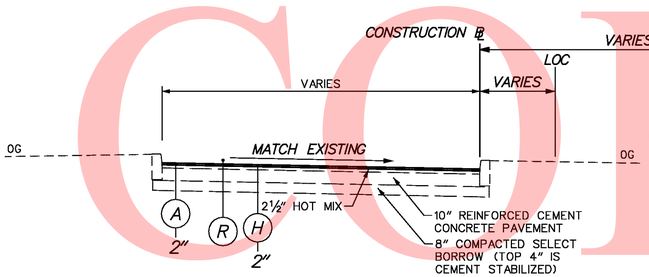
RAMP 2

STA 100+33.73 TO STA 105+26.47



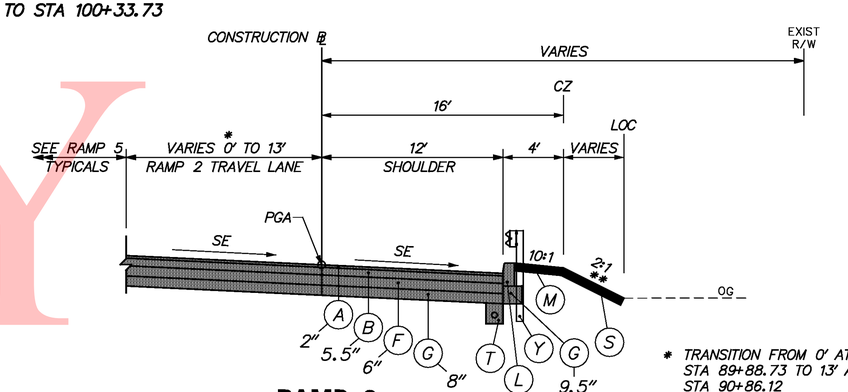
RAMP 2

STA 96+62.62 TO STA 100+33.73



RAMP 1

STA 63+23.46 TO STA 80+80.13



RAMP 2

STA 89+88.73 TO STA 96+62.62

* TRANSITION FROM 0' AT STA 89+88.73 TO 13' AT STA 90+86.12

** 1.75:1 FROM STA 94+25.00 TO STA 94+40.00

LEGEND

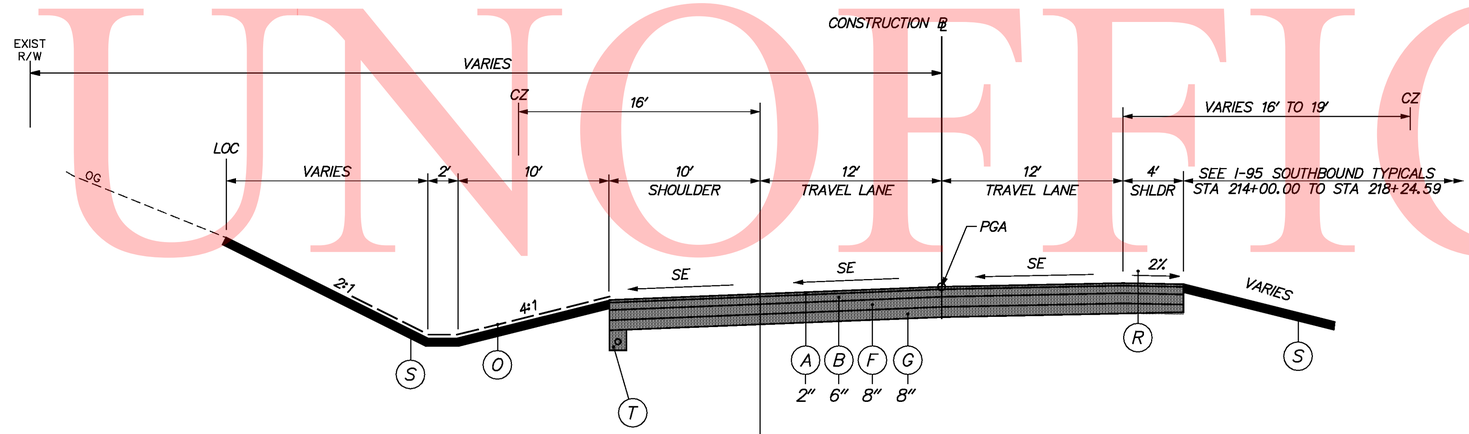
- (A) ITEM 401711 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)
- (B) ITEM 401660 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 76-22
- (D) ITEM 401669 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 64-22, WEDGE
- (F) ITEM 401663 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 760508 - PROFILE MILLING, HOT-MIX
- (I) ITEM 501004 - PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (J) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
- (K) ITEM 501526 - PATTERNED PORTLAND CEMENT CONCRETE PAVEMENT, 8"
- (L) ITEM 701010- PORTLAND CEMENT CONCRETE CURB, TYPE 1 (WITHOUT GUARDRAIL INSTALLATION)
- (M) GUARDRAIL MAINTENANCE STRIP, SEE CONSTRUCTION DETAIL
- (N) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 3 (WITH GUARDRAIL INSTALLATION)
- (O) ITEM 712527 - TURF REINFORCING MAT
- (P) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (DITCH LINING)
- (Q) ITEM 701500 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL
- (R) ITEM 760504 - RUMBLE STRIPS, HOT MIX
- (S) ITEM 732002 - TOPSOIL, 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
  ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (SLOPES STEEPER THAN 2:1)
- (T) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
- (U) ITEM 401577 - PAVER-LAID ULTRATHIN HOT MIX
- (V) ITEM 209006 - TYPE F BORROW
- (W) ITEM 401517 - STONE MATRIX ASPHALT WEARING SURFACE
- (Y) ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1
- (Z) ITEM 720529 - SAFETY BARRIER, PERMANENT, SINGLE FACE, SEE CONSTRUCTION DETAIL

NOTE:
OUTSIDE SHOULDER WIDTHS 12' OR GREATER INCLUDE A 2' OFFSET.
INSIDE SHOULDER WIDTHS 8' OR GREATER INCLUDE A 2' OFFSET.

MAXIMUM SINGLE LIFT OF PAVING MATERIAL

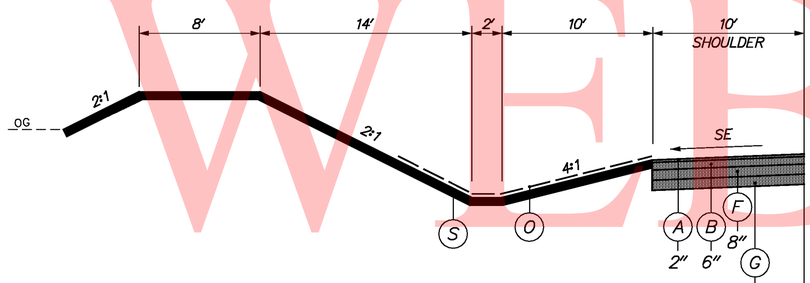
TYPE C HOT-MIX: 2" DEPTH
TYPE B HOT-MIX: 3" DEPTH
BITUMINOUS CONCRETE BASE COURSE: 6" DEPTH
GRADED AGGREGATE BASE COURSE: 6" DEPTH

UNOFFICIAL WEBSITE COPY

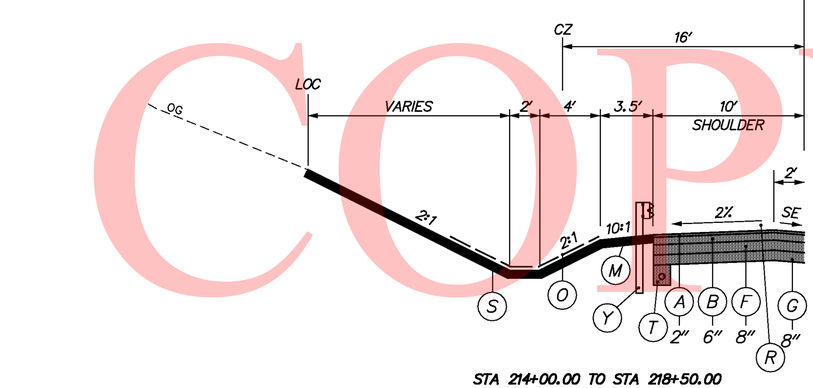


RAMP 3

STA 214+00.00 TO STA 230+35.23



STA 225+85.00 TO STA 227+10.00



STA 214+00.00 TO STA 218+50.00

LEGEND

- (A) ITEM 401711 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)
- (B) ITEM 401660 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 76-22
- (D) ITEM 401669 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 64-22, WEDGE
- (F) ITEM 401663 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 760508 - PROFILE MILLING, HOT-MIX
- (I) ITEM 501004 - PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (J) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
- (K) ITEM 501526 - PATTERNED PORTLAND CEMENT CONCRETE PAVEMENT, 8"
- (L) ITEM 701010- PORTLAND CEMENT CONCRETE CURB, TYPE 1 (WITHOUT GUARDRAIL INSTALLATION)
- (M) GUARDRAIL MAINTENANCE STRIP, SEE CONSTRUCTION DETAIL
- (N) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 3 (WITH GUARDRAIL INSTALLATION)
- (O) ITEM 712527 - TURF REINFORCING MAT
- (P) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (DITCH LINING)
- (Q) ITEM 701500 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL
- (R) ITEM 760504 - RUMBLE STRIPS, HOT MIX
- (S) ITEM 732002 - TOPSOIL, 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
  ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (SLOPES STEEPER THAN 2:1)
- (T) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
- (U) ITEM 401577 - PAVER-LAID ULTRATHIN HOT MIX
- (V) ITEM 209006 - TYPE F BORROW
- (W) ITEM 401517 - STONE MATRIX ASPHALT WEARING SURFACE
- (Y) ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1
- (Z) ITEM 720529 - SAFETY BARRIER, PERMANENT, SINGLE FACE, SEE CONSTRUCTION DETAIL

NOTE:
OUTSIDE SHOULDER WIDTHS 12' OR GREATER INCLUDE A 2' OFFSET.
INSIDE SHOULDER WIDTHS 8' OR GREATER INCLUDE A 2' OFFSET.

MAXIMUM SINGLE LIFT OF PAVING MATERIAL

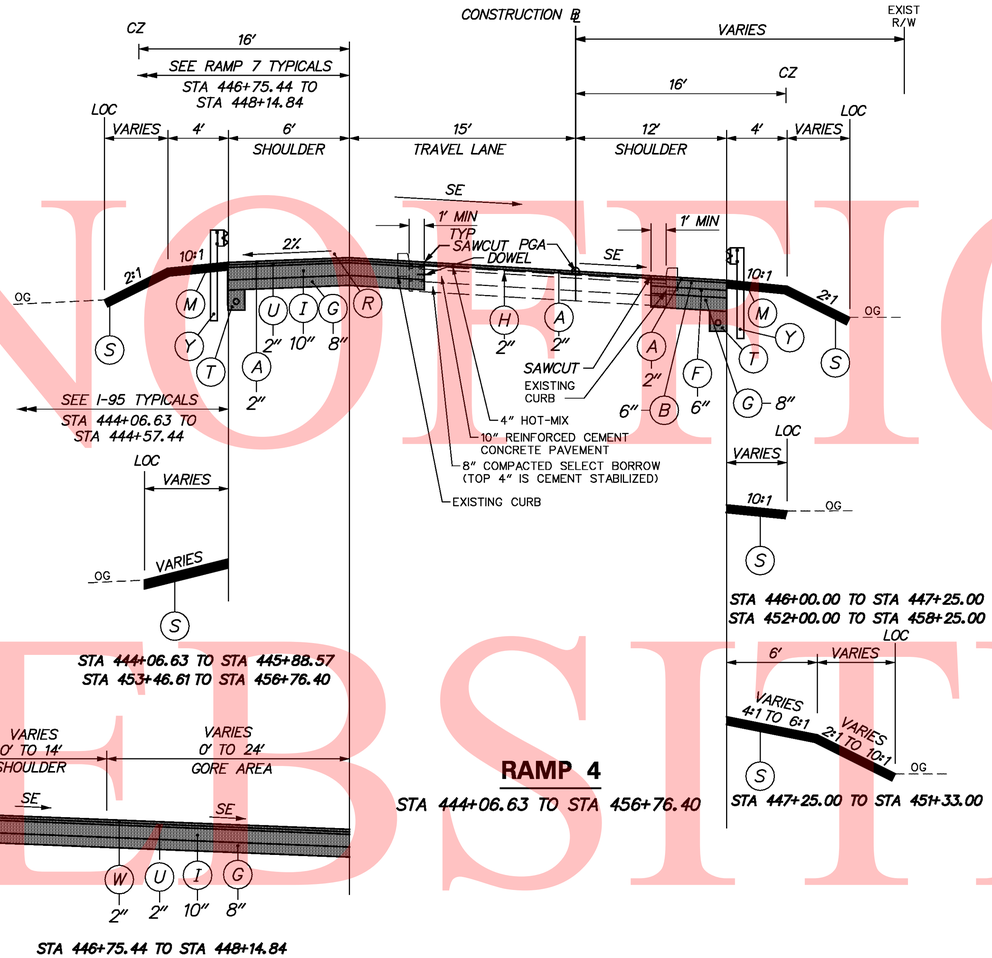
TYPE C HOT-MIX: 2" DEPTH
TYPE B HOT-MIX: 3" DEPTH
BITUMINOUS CONCRETE BASE COURSE: 6" DEPTH
GRADED AGGREGATE BASE COURSE: 6" DEPTH

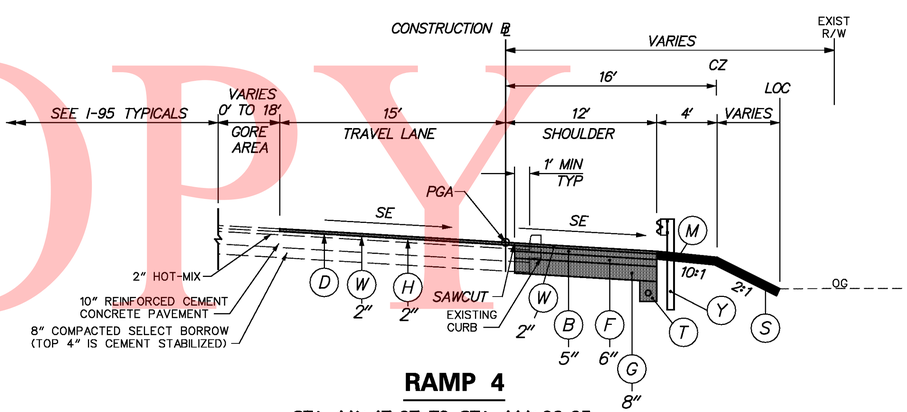
UNOFFICIAL WEBSITE COPY

Y:\Projects\Del41-202\Del95 Cont 5\Typicals\95ts04CS-Ramps.dgn

3/24/2011

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	TYPICALS TS 13 OF 26	SHEET NO. 19
				COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
					CHECKED BY: BMD		





LEGEND

- (A) ITEM 401711 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)
- (B) ITEM 401660 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 76-22
- (D) ITEM 401669 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 64-22, WEDGE
- (F) ITEM 401663 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 760508 - PROFILE MILLING, HOT-MIX
- (I) ITEM 501004 - PORTLAND CEMENT CONCRETE PAVEMENT, 10″
- (J) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12″
- (K) ITEM 501526 - PATTERNED PORTLAND CEMENT CONCRETE PAVEMENT, 8″
- (L) ITEM 701010- PORTLAND CEMENT CONCRETE CURB, TYPE 1 (WITHOUT GUARDRAIL INSTALLATION)
- (M) GUARDRAIL MAINTENANCE STRIP, SEE CONSTRUCTION DETAIL
- (N) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 3 (WITH GUARDRAIL INSTALLATION)
- (O) ITEM 712527 - TURF REINFORCING MAT
- (P) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (DITCH LINING)
- (Q) ITEM 701500 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL
- (R) ITEM 760504 - RUMBLE STRIPS, HOT MIX
- (S) ITEM 732002 - TOPSOIL, 6″ DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
  ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (SLOPES STEEPER THAN 2:1)
- (T) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6″
- (U) ITEM 401577 - PAVER-LAID ULTRATHIN HOT MIX
- (V) ITEM 209006 - TYPE F BORROW
- (W) ITEM 401517 - STONE MATRIX ASPHALT WEARING SURFACE
- (Y) ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1
- (Z) ITEM 720529 - SAFETY BARRIER, PERMANENT, SINGLE FACE, SEE CONSTRUCTION DETAIL

NOTE:
OUTSIDE SHOULDER WIDTHS 12′ OR GREATER INCLUDE A 2′ OFFSET.
INSIDE SHOULDER WIDTHS 8′ OR GREATER INCLUDE A 2′ OFFSET.

MAXIMUM SINGLE LIFT OF PAVING MATERIAL

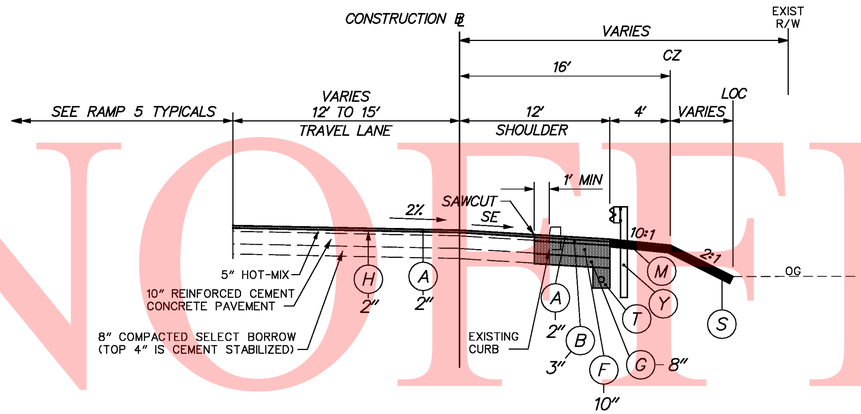
TYPE C HOT-MIX: 2″ DEPTH
TYPE B HOT-MIX: 3″ DEPTH
BITUMINOUS CONCRETE BASE COURSE: 6″ DEPTH
GRADED AGGREGATE BASE COURSE: 6″ DEPTH

UNOFFICIAL WEBSITE COPY

Y:\Projects\Del41-202\Del95 Cont 5\Typicals\95ts04C5-Ramps.dgn

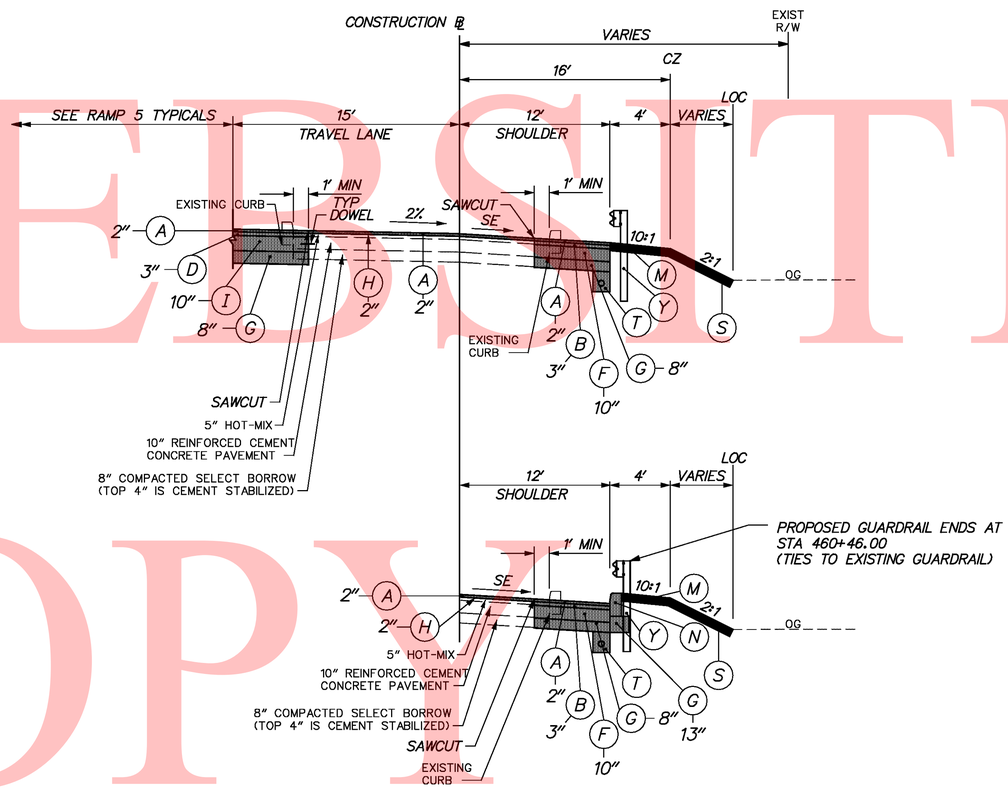
3/24/2011

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	TYPICALS TS 14 OF 26	SHEET NO. 20
			COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
				CHECKED BY: BMD		



RAMP 4

STA 457+91.48 TO STA 461+24.91



STA 459+56.97 TO STA 461+24.91

RAMP 4

STA 456+76.40 TO STA 457+91.48

LEGEND

- (A) ITEM 401711 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)
- (B) ITEM 401660 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 76-22
- (D) ITEM 401669 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 64-22, WEDGE
- (F) ITEM 401663 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 760508 - PROFILE MILLING, HOT-MIX
- (I) ITEM 501004 - PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (J) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
- (K) ITEM 501526 - PATTERNED PORTLAND CEMENT CONCRETE PAVEMENT, 8"
- (L) ITEM 701010- PORTLAND CEMENT CONCRETE CURB, TYPE 1 (WITHOUT GUARDRAIL INSTALLATION)
- (M) GUARDRAIL MAINTENANCE STRIP, SEE CONSTRUCTION DETAIL
- (N) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 3 (WITH GUARDRAIL INSTALLATION)
- (O) ITEM 712527 - TURF REINFORCING MAT
- (P) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (DITCH LINING)
- (Q) ITEM 701500 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL
- (R) ITEM 760504 - RUMBLE STRIPS, HOT MIX
- (S) ITEM 732002 - TOPSOIL, 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
  ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (SLOPES STEEPER THAN 2:1)
- (T) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
- (U) ITEM 401577 - PAVER-LAID ULTRATHIN HOT MIX
- (V) ITEM 209006 - TYPE F BORROW
- (W) ITEM 401517 - STONE MATRIX ASPHALT WEARING SURFACE
- (Y) ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1
- (Z) ITEM 720529 - SAFETY BARRIER, PERMANENT, SINGLE FACE, SEE CONSTRUCTION DETAIL

NOTE:
OUTSIDE SHOULDER WIDTHS 12' OR GREATER INCLUDE A 2' OFFSET.
INSIDE SHOULDER WIDTHS 8' OR GREATER INCLUDE A 2' OFFSET.

MAXIMUM SINGLE LIFT OF PAVING MATERIAL

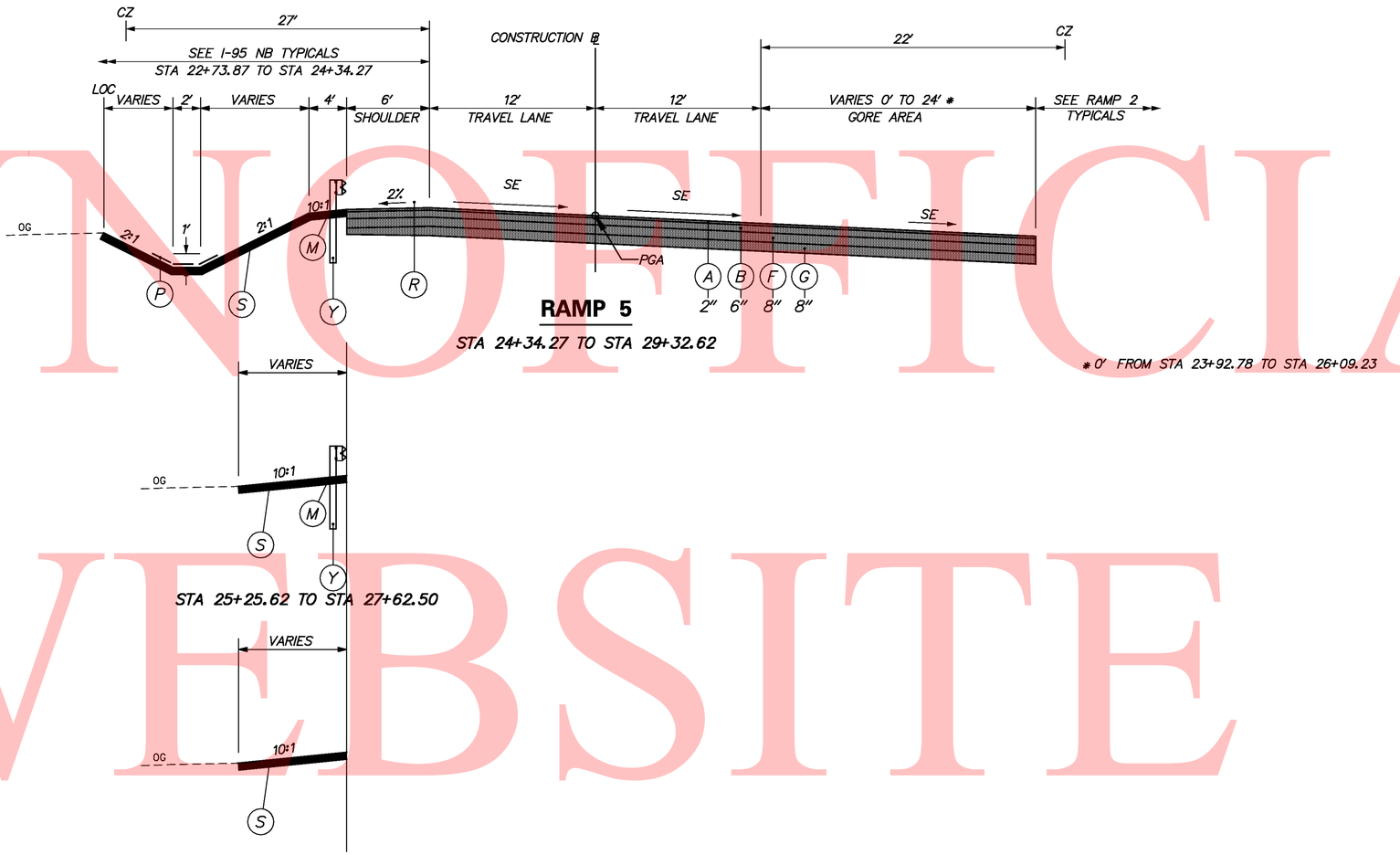
TYPE C HOT-MIX: 2" DEPTH
TYPE B HOT-MIX: 3" DEPTH
BITUMINOUS CONCRETE BASE COURSE: 6" DEPTH
GRADED AGGREGATE BASE COURSE: 6" DEPTH

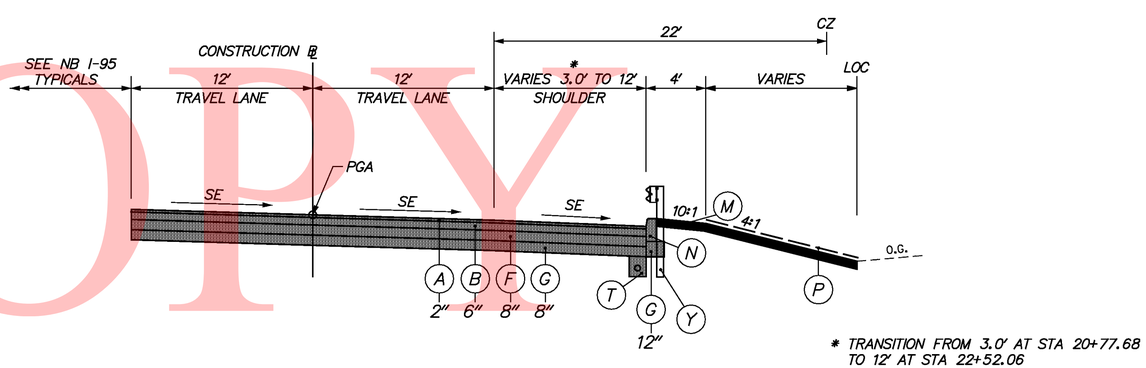
UNOFFICIAL WEBSITE COPY

Y:\Projects\Del141-202\Del95 Cont 5\Typicals\195ts04C5-Ramps.dgn

3/24/2011

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	I-95 & US 202 INTERCHANGE	CONTRACT T200510602 / COUNTY NEW CASTLE	BRIDGE NO. NA / DESIGNED BY: DAG / CHECKED BY: BMD	TYPICALS TS 15 OF 26	SHEET NO. 21 / TOTAL SHTS. 482





RAMP 5

STA 20+77.68 TO STA 24+34.27

LEGEND

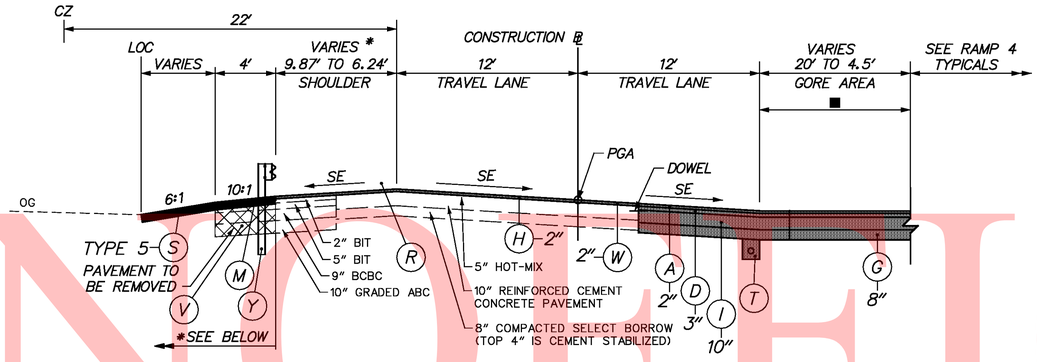
- (A) ITEM 401711 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)
- (B) ITEM 401660 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 76-22
- (D) ITEM 401669 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 64-22, WEDGE
- (F) ITEM 401663 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 760508 - PROFILE MILLING, HOT-MIX
- (I) ITEM 501004 - PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (J) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
- (K) ITEM 501526 - PATTERNED PORTLAND CEMENT CONCRETE PAVEMENT, 8"
- (L) ITEM 701010- PORTLAND CEMENT CONCRETE CURB, TYPE 1 (WITHOUT GUARDRAIL INSTALLATION)
- (M) GUARDRAIL MAINTENANCE STRIP, SEE CONSTRUCTION DETAIL
- (N) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 3 (WITH GUARDRAIL INSTALLATION)
- (O) ITEM 712527 - TURF REINFORCING MAT
- (P) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (DITCH LINING)
- (Q) ITEM 701500 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL
- (R) ITEM 760504 - RUMBLE STRIPS, HOT MIX
- (S) ITEM 732002 - TOPSOIL, 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
  ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (SLOPES STEEPER THAN 2:1)
- (T) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
- (U) ITEM 401577 - PAVER-LAID ULTRATHIN HOT MIX
- (V) ITEM 209006 - TYPE F BORROW
- (W) ITEM 401517 - STONE MATRIX ASPHALT WEARING SURFACE
- (Y) ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1
- (Z) ITEM 720529 - SAFETY BARRIER, PERMANENT, SINGLE FACE, SEE CONSTRUCTION DETAIL

NOTE:
SHOULDER WIDTHS INCLUDE A 2' OFFSET.

MAXIMUM SINGLE LIFT OF PAVING MATERIAL

TYPE C HOT-MIX: 2" DEPTH
TYPE B HOT-MIX: 3" DEPTH
BITUMINOUS CONCRETE BASE COURSE: 6" DEPTH
GRADED AGGREGATE BASE COURSE: 6" DEPTH

UNOFFICIAL WEBSITE COPY

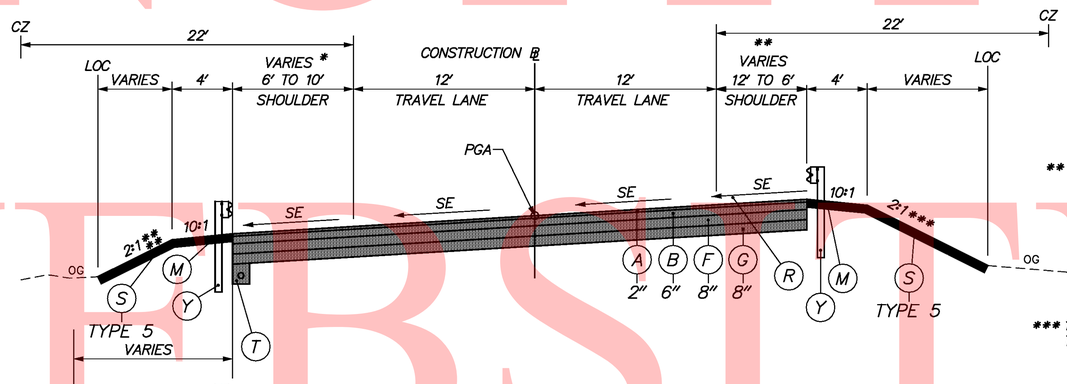


RAMP 5

STA 56+00.47 TO STA 57+16.43

* TRANSITION FROM 9.87' AT STA 56+10.44 TO 6.24' AT STA 57+85.64

■ GORE AREA FROM STA 57+16.30 TO STA 57+85.64 WILL BE 2" (W) STONE MARIX ASPHALT WEARING SURFACE ON 2" (H) PROFILE MILLING, HOT MIX.



* LEFT SHOULDER
6' FROM STA 33+37.05 TO STA 37+20.00
10' FROM STA 38+99.53 TO STA 55+85.64
4' FROM STA 57+85.64 TO STA 60+41.34

TRANSITION FROM 6' AT STA 37+20.00 TO 10' AT STA 38+99.53.

TRANSITION FROM 10' AT STA 55+85.64 TO 9.87' AT STA 56+10.44

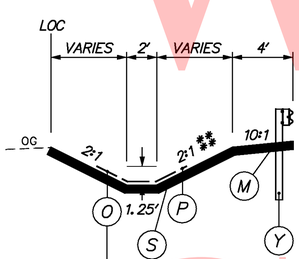
**1.5:1 FROM STA 35+00.00 TO STA 37+00.00

** RIGHT SHOULDER
12' FROM STA 33+37.05 TO STA 37+20.00
6' FROM STA 39+00.51 TO STA 56+10.44

TRANSITION FROM 12' AT STA 37+20.00 TO 6' AT STA 39+00.51

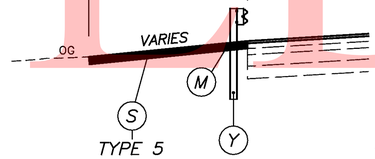
TRANSITION FROM 6' AT STA 37+20.00 TO 10' AT STA 38+99.53

*** 1.5:1 FROM STA 35+00.00 TO STA 37+00.00



STA 33+73.05 TO STA 36+90.00

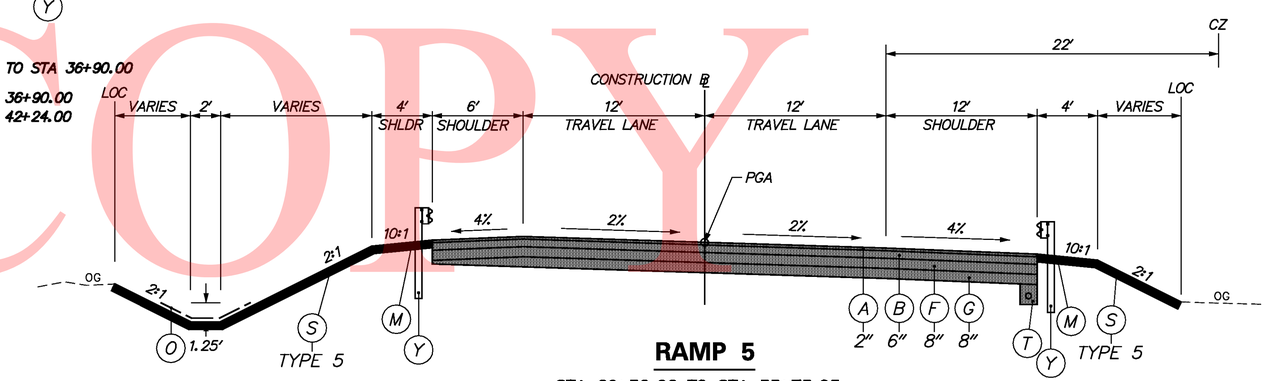
STA 33+73.05 TO STA 36+90.00
STA 40+82.00 TO STA 42+24.00



STA 43+50.00 TO STA 45+94.17
STA 49+51.30 TO STA 52+23.89
STA 54+40.00 TO STA 56+00.47

RAMP 5

STA 33+73.05 TO STA 38+84.69
STA 40+73.68 TO STA 46+38.84
STA 49+33.51 TO STA 52+23.89
STA 53+38.88 TO STA 56+00.47



RAMP 5

STA 29+32.62 TO STA 33+73.05

LEGEND

- (A) ITEM 401711 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)
- (B) ITEM 401660 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 76-22
- (D) ITEM 401669 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 64-22, WEDGE
- (F) ITEM 401663 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 760508 - PROFILE MILLING, HOT-MIX
- (I) ITEM 501004 - PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (J) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
- (K) ITEM 501526 - PATTERNED PORTLAND CEMENT CONCRETE PAVEMENT, 8"
- (L) ITEM 701010- PORTLAND CEMENT CONCRETE CURB, TYPE 1 (WITHOUT GUARDRAIL INSTALLATION)
- (M) GUARDRAIL MAINTENANCE STRIP, SEE CONSTRUCTION DETAIL
- (N) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 3 (WITH GUARDRAIL INSTALLATION)
- (O) ITEM 712527 - TURF REINFORCING MAT
- (P) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (DITCH LINING)
- (Q) ITEM 701500 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL
- (R) ITEM 760504 - RUMBLE STRIPS, HOT MIX
- (S) ITEM 732002 - TOPSOIL, 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
  ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (SLOPES STEEPER THAN 2:1)
- (T) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
- (U) ITEM 401577 - PAVER-LAID ULTRATHIN HOT MIX
- (V) ITEM 209006 - TYPE F BORROW
- (W) ITEM 401517 - STONE MATRIX ASPHALT WEARING SURFACE
- (Y) ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1
- (Z) ITEM 720529 - SAFETY BARRIER, PERMANENT, SINGLE FACE, SEE CONSTRUCTION DETAIL

NOTE:
SHOULDER WIDTHS INCLUDE A 2' OFFSET.

MAXIMUM SINGLE LIFT OF PAVING MATERIAL

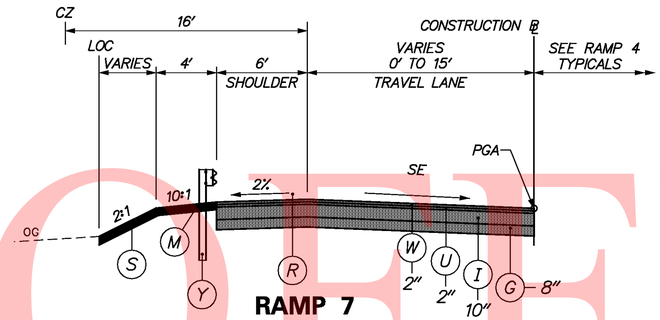
TYPE C HOT-MIX: 2" DEPTH
TYPE B HOT-MIX: 3" DEPTH
BITUMINOUS CONCRETE BASE COURSE: 6" DEPTH
GRADED AGGREGATE BASE COURSE: 6" DEPTH

UNOFFICIAL WEBSITE COPY

Y:\Projects\Del41-202\Del95 Cont 5\Typicals\95ts04C5-Ramps.dgn

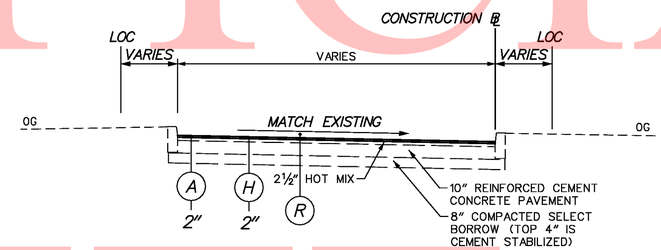
3/24/2011

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	TYPICALS	SHEET NO. 23
				COUNTY NEW CASTLE	DESIGNED BY: DAG	TS 17 OF 26	TOTAL SHTS. 482
					CHECKED BY: BMD		



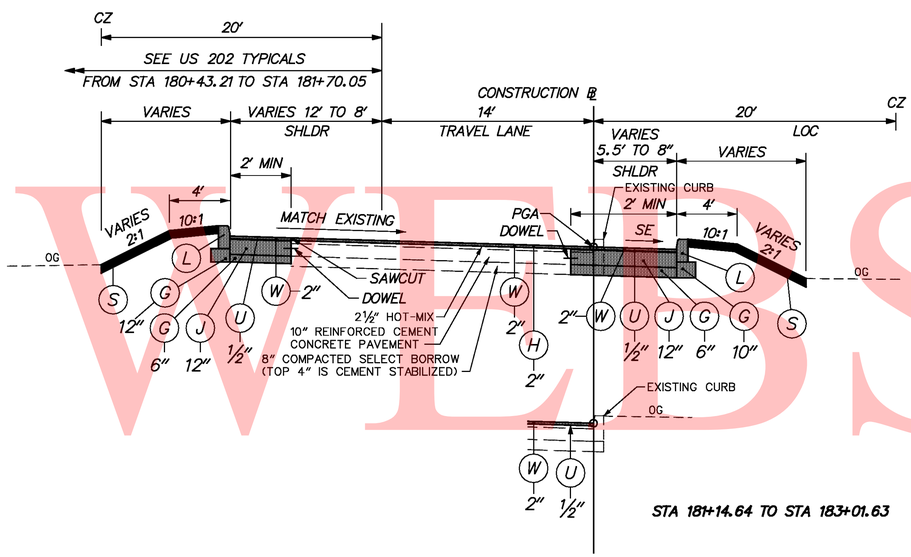
RAMP 7

STA 149+27.10 TO STA 151+56.84



RAMP 6

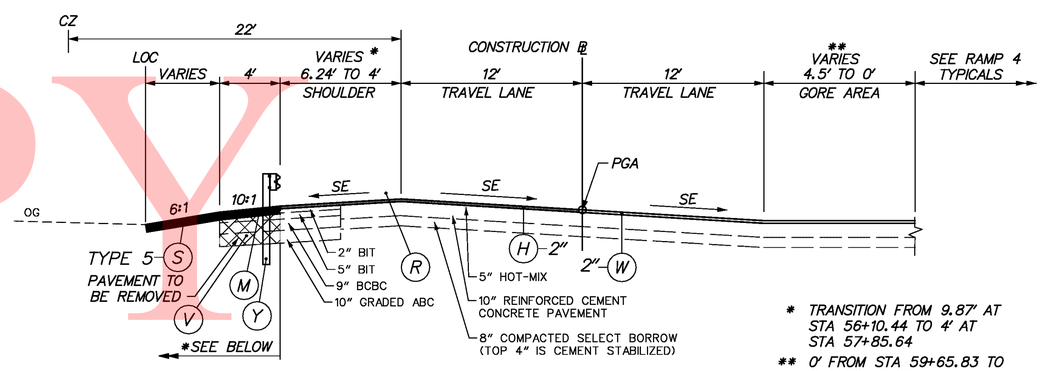
STA 183+01.93 TO STA 191+91.48



STA 181+14.64 TO STA 183+01.63

RAMP 6

STA 180+43.21 TO STA 183+01.93



* TRANSITION FROM 9.87" AT STA 56+10.44 TO 4' AT STA 57+85.64

** 0' FROM STA 59+65.83 TO STA 60+50.69

RAMP 5

STA 57+16.43 TO STA 60+50.69

LEGEND

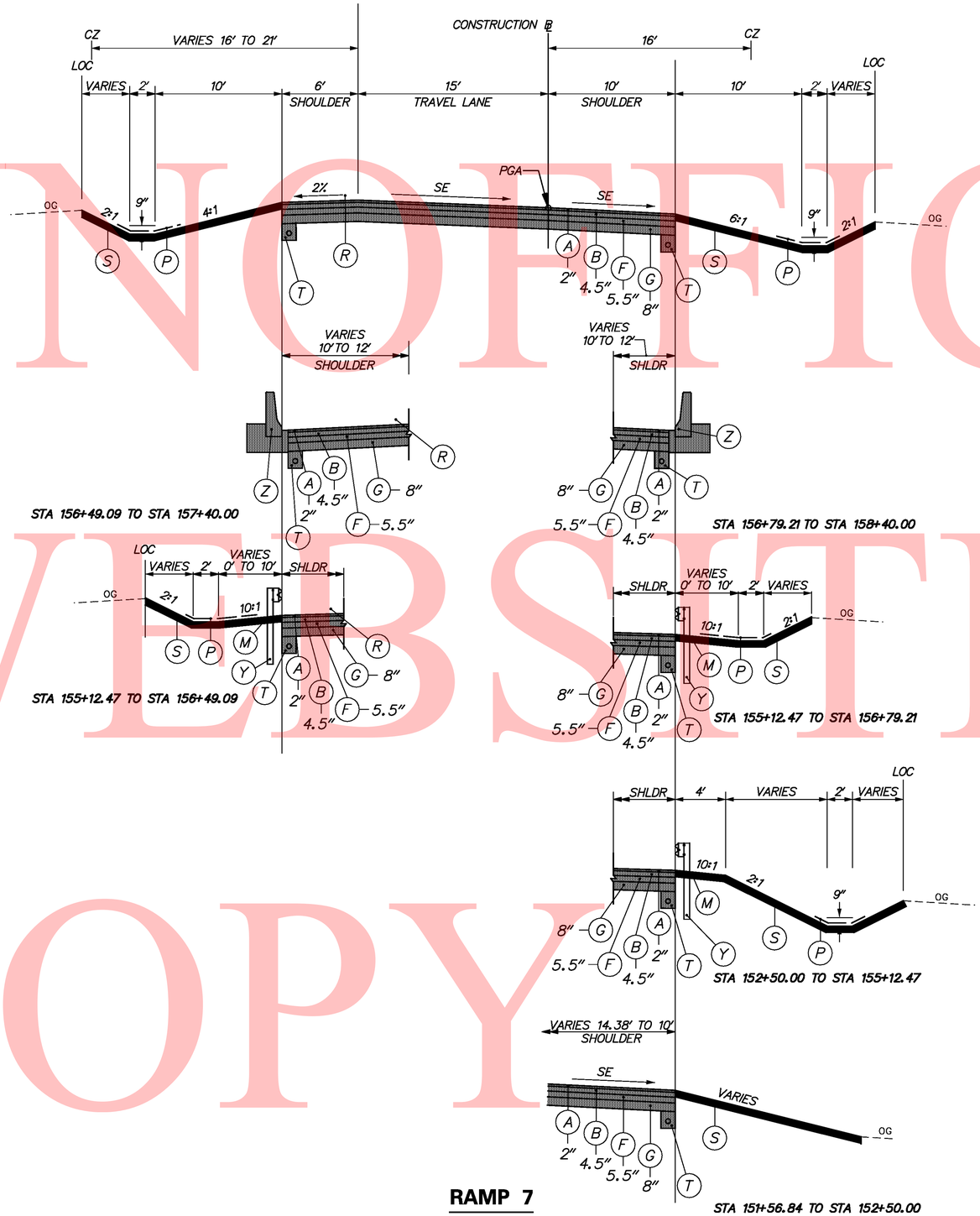
- (A) ITEM 401711 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)
- (B) ITEM 401660 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 76-22
- (D) ITEM 401669 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 64-22, WEDGE
- (F) ITEM 401663 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 760508 - PROFILE MILLING, HOT-MIX
- (I) ITEM 501004 - PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (J) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
- (K) ITEM 501526 - PATTERNED PORTLAND CEMENT CONCRETE PAVEMENT, 8"
- (L) ITEM 701010- PORTLAND CEMENT CONCRETE CURB, TYPE 1 (WITHOUT GUARDRAIL INSTALLATION)
- (M) GUARDRAIL MAINTENANCE STRIP, SEE CONSTRUCTION DETAIL
- (N) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 3 (WITH GUARDRAIL INSTALLATION)
- (O) ITEM 712527 - TURF REINFORCING MAT
- (P) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (DITCH LINING)
- (Q) ITEM 701500 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL
- (R) ITEM 760504 - RUMBLE STRIPS, HOT MIX
- (S) ITEM 732002 - TOPSOIL, 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
  ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (SLOPES STEEPER THAN 2:1)
- (T) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
- (U) ITEM 401577 - PAVER-LAID ULTRATHIN HOT MIX
- (V) ITEM 209006 - TYPE F BORROW
- (W) ITEM 401517 - STONE MATRIX ASPHALT WEARING SURFACE
- (Y) ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1
- (Z) ITEM 720529 - SAFETY BARRIER, PERMANENT, SINGLE FACE, SEE CONSTRUCTION DETAIL

NOTE:
OUTSIDE SHOULDER WIDTHS 12' OR GREATER INCLUDE A 2' OFFSET.
INSIDE SHOULDER WIDTHS 8' OR GREATER INCLUDE A 2' OFFSET.

MAXIMUM SINGLE LIFT OF PAVING MATERIAL

TYPE C HOT-MIX: 2" DEPTH
TYPE B HOT-MIX: 3" DEPTH
BITUMINOUS CONCRETE BASE COURSE: 6" DEPTH
GRADED AGGREGATE BASE COURSE: 6" DEPTH

UNOFFICIAL WEBSITE COPY



RAMP 7

STA 151+56.84 TO STA 158+40.00

LEGEND

- (A) ITEM 401711 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)
- (B) ITEM 401660 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 76-22
- (D) ITEM 401669 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 64-22, WEDGE
- (F) ITEM 401663 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 760508 - PROFILE MILLING, HOT-MIX
- (I) ITEM 501004 - PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (J) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
- (K) ITEM 501526 - PATTERNED PORTLAND CEMENT CONCRETE PAVEMENT, 8"
- (L) ITEM 701010- PORTLAND CEMENT CONCRETE CURB, TYPE 1 (WITHOUT GUARDRAIL INSTALLATION)
- (M) GUARDRAIL MAINTENANCE STRIP, SEE CONSTRUCTION DETAIL
- (N) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 3 (WITH GUARDRAIL INSTALLATION)
- (O) ITEM 712527 - TURF REINFORCING MAT
- (P) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (DITCH LINING)
- (Q) ITEM 701500 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL
- (R) ITEM 760504 - RUMBLE STRIPS, HOT MIX
- (S) ITEM 732002 - TOPSOIL, 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
  ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (SLOPES STEEPER THAN 2:1)
- (T) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
- (U) ITEM 401577 - PAVER-LAID ULTRATHIN HOT MIX
- (V) ITEM 209006 - TYPE F BORROW
- (W) ITEM 401517 - STONE MATRIX ASPHALT WEARING SURFACE
- (Y) ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1
- (Z) ITEM 720529 - SAFETY BARRIER, PERMANENT, SINGLE FACE, SEE CONSTRUCTION DETAIL

NOTE:
OUTSIDE SHOULDER WIDTHS 12' OR GREATER INCLUDE A 2' OFFSET.
INSIDE SHOULDER WIDTHS 8' OR GREATER INCLUDE A 2' OFFSET.

MAXIMUM SINGLE LIFT OF PAVING MATERIAL

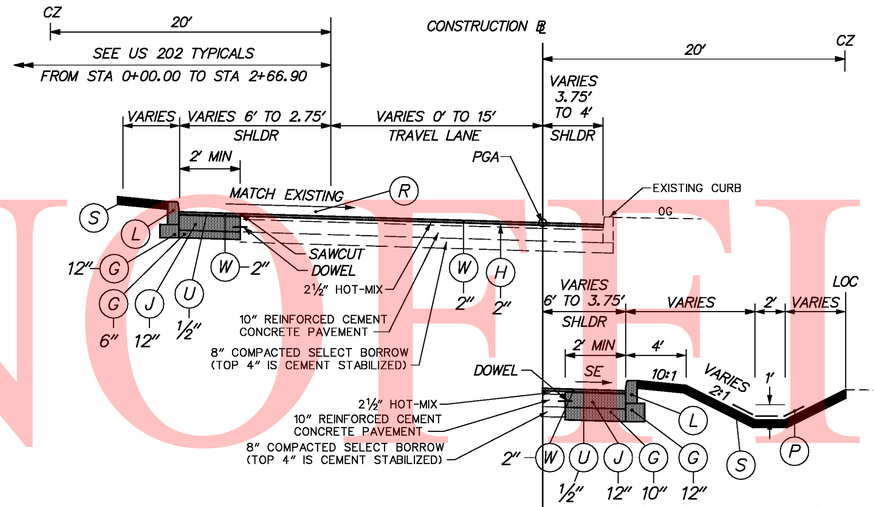
TYPE C HOT-MIX: 2" DEPTH
TYPE B HOT-MIX: 3" DEPTH
BITUMINOUS CONCRETE BASE COURSE: 6" DEPTH
GRADED AGGREGATE BASE COURSE: 6" DEPTH

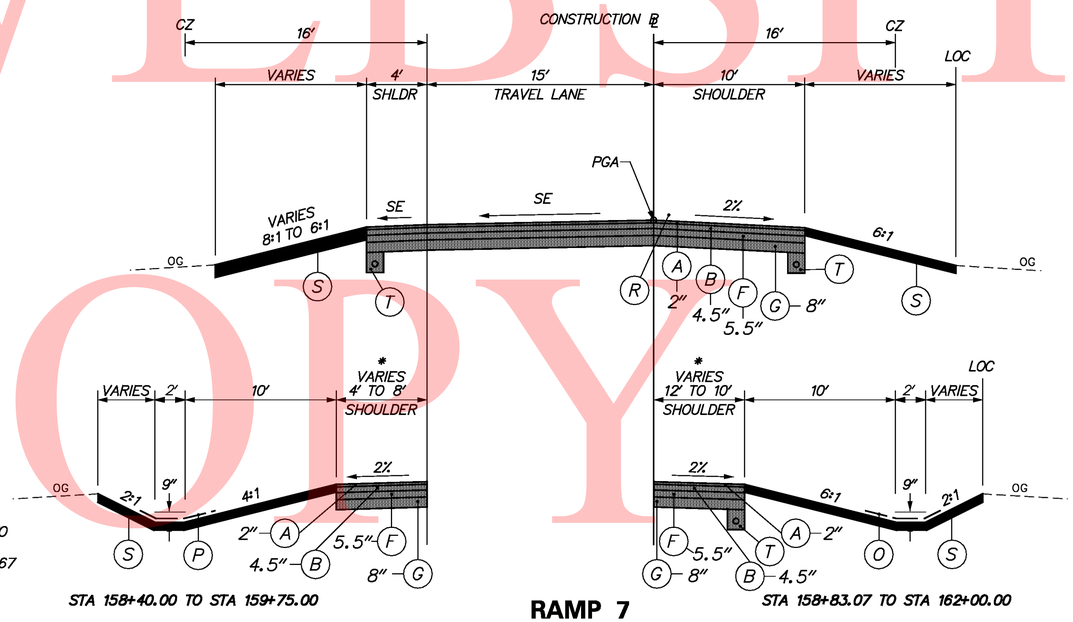
UNOFFICIAL WEBSITE COPY

Y:\Projects\Del41-202\Del95 Cont 5\Typicals\95ts04C5-Ramps.dgn

3/24/2011

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	TYPICALS	SHEET NO. 25
				COUNTY NEW CASTLE	DESIGNED BY: DAG	TS 19 OF 26	TOTAL SHTS. 482
					CHECKED BY: BMD		





* VARIES FROM 6' AT STA 156+00.00 TO 8' AT STA 156+49.00 AND 8' AT STA 157+16.67 TO 4' AT STA 157+66.67

LEGEND

- (A) ITEM 401711 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)
- (B) ITEM 401660 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 76-22
- (D) ITEM 401669 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 64-22, WEDGE
- (F) ITEM 401663 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 760508 - PROFILE MILLING, HOT-MIX
- (I) ITEM 501004 - PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (J) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
- (K) ITEM 501526 - PATTERNED PORTLAND CEMENT CONCRETE PAVEMENT, 8"
- (L) ITEM 701010- PORTLAND CEMENT CONCRETE CURB, TYPE 1 (WITHOUT GUARDRAIL INSTALLATION)
- (M) GUARDRAIL MAINTENANCE STRIP, SEE CONSTRUCTION DETAIL
- (N) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 3 (WITH GUARDRAIL INSTALLATION)
- (O) ITEM 712527 - TURF REINFORCING MAT
- (P) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (DITCH LINING)
- (Q) ITEM 701500 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL
- (R) ITEM 760504 - RUMBLE STRIPS, HOT MIX
- (S) ITEM 732002 - TOPSOIL, 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
  ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (SLOPES STEEPER THAN 2:1)
- (T) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
- (U) ITEM 401577 - PAVER-LAID ULTRATHIN HOT MIX
- (V) ITEM 209006 - TYPE F BORROW
- (W) ITEM 401517 - STONE MATRIX ASPHALT WEARING SURFACE
- (Y) ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1
- (Z) ITEM 720529 - SAFETY BARRIER, PERMANENT, SINGLE FACE, SEE CONSTRUCTION DETAIL

NOTE:
OUTSIDE SHOULDER WIDTHS 12' OR GREATER INCLUDE A 2' OFFSET.
INSIDE SHOULDER WIDTHS 8' OR GREATER INCLUDE A 2' OFFSET.

MAXIMUM SINGLE LIFT OF PAVING MATERIAL

TYPE C HOT-MIX: 2" DEPTH
TYPE B HOT-MIX: 3" DEPTH
BITUMINOUS CONCRETE BASE COURSE: 6" DEPTH
GRADED AGGREGATE BASE COURSE: 6" DEPTH

UNOFFICIAL WEBSITE COPY

Y:\Projects\Del95 Cont 5\Typicals\95ts04C5-Ramps.dgn

3/24/2011

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	TYPICALS	SHEET NO. 26
				COUNTY NEW CASTLE	DESIGNED BY: DAG	TS 20 OF 26	TOTAL SHTS. 482
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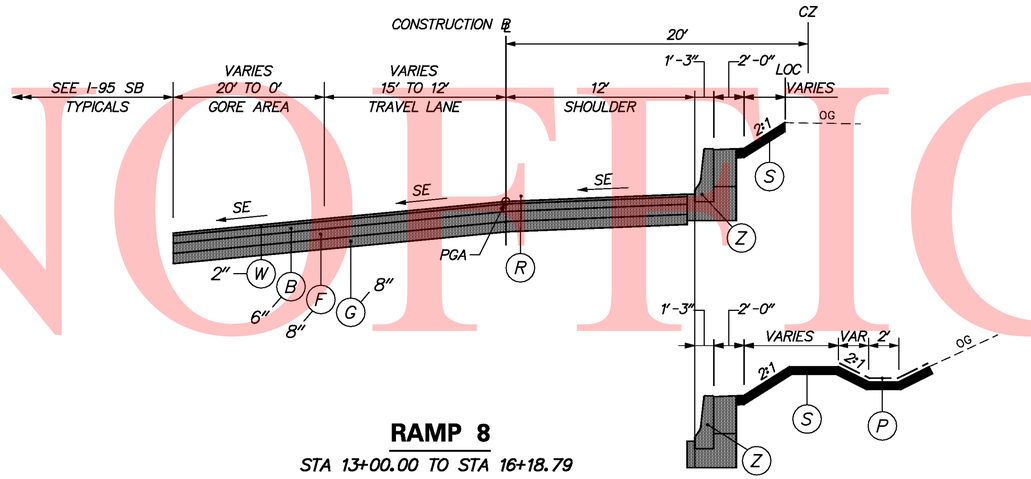
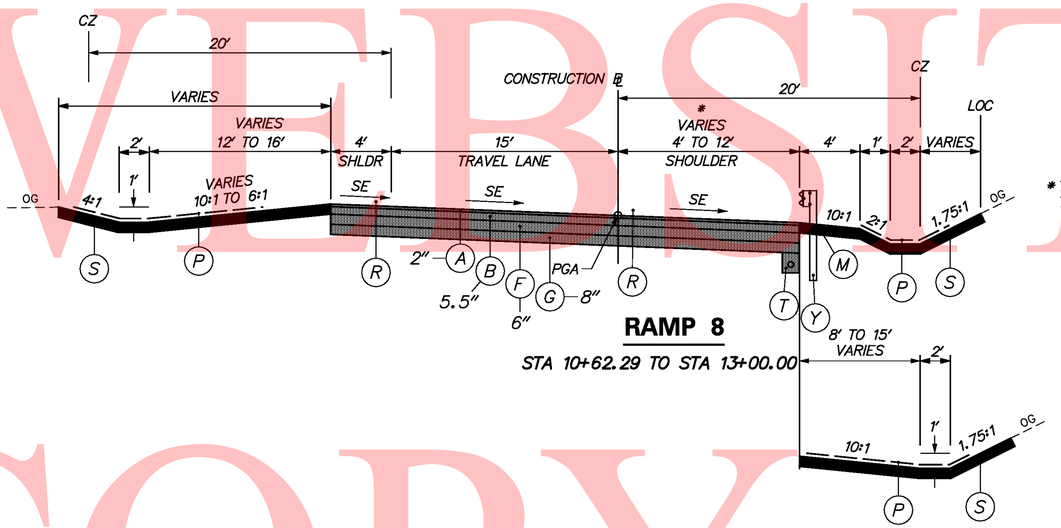


RAMP 8

STA 13+00.00 TO STA 16+18.79

STA 14+60.00 TO STA 15+95.00

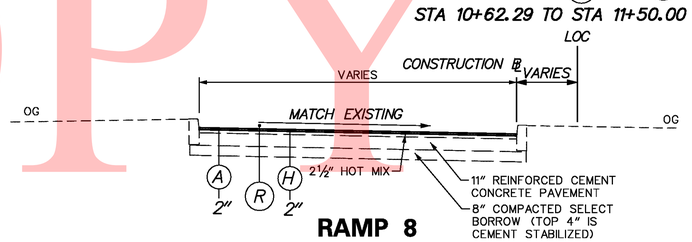


* TRANSITION FROM 4' AT STA 10+62.29 TO 12' AT STA 12+10.64

RAMP 8

STA 10+62.29 TO STA 13+00.00

STA 10+62.29 TO STA 11+50.00



RAMP 8

STA 3+20.49 TO STA 10+62.29

LEGEND

- (A) ITEM 401711 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)
- (B) ITEM 401660 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 76-22
- (D) ITEM 401669 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 64-22, WEDGE
- (F) ITEM 401663 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 760508 - PROFILE MILLING, HOT-MIX
- (I) ITEM 501004 - PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (J) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
- (K) ITEM 501526 - PATTERNED PORTLAND CEMENT CONCRETE PAVEMENT, 8"
- (L) ITEM 701010- PORTLAND CEMENT CONCRETE CURB, TYPE 1 (WITHOUT GUARDRAIL INSTALLATION)
- (M) GUARDRAIL MAINTENANCE STRIP, SEE CONSTRUCTION DETAIL
- (N) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 3 (WITH GUARDRAIL INSTALLATION)
- (O) ITEM 712527 - TURF REINFORCING MAT
- (P) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (DITCH LINING)
- (Q) ITEM 701500 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL
- (R) ITEM 760504 - RUMBLE STRIPS, HOT MIX
- (S) ITEM 732002 - TOPSOIL, 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
  ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (SLOPES STEEPER THAN 2:1)
- (T) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
- (U) ITEM 401577 - PAVER-LAID ULTRATHIN HOT MIX
- (V) ITEM 209006 - TYPE F BORROW
- (W) ITEM 401517 - STONE MATRIX ASPHALT WEARING SURFACE
- (Y) ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1
- (Z) ITEM 720529 - SAFETY BARRIER, PERMANENT, SINGLE FACE, SEE CONSTRUCTION DETAIL

NOTE:
OUTSIDE SHOULDER WIDTHS 12' OR GREATER INCLUDE A 2' OFFSET.
INSIDE SHOULDER WIDTHS 8' OR GREATER INCLUDE A 2' OFFSET.

MAXIMUM SINGLE LIFT OF PAVING MATERIAL

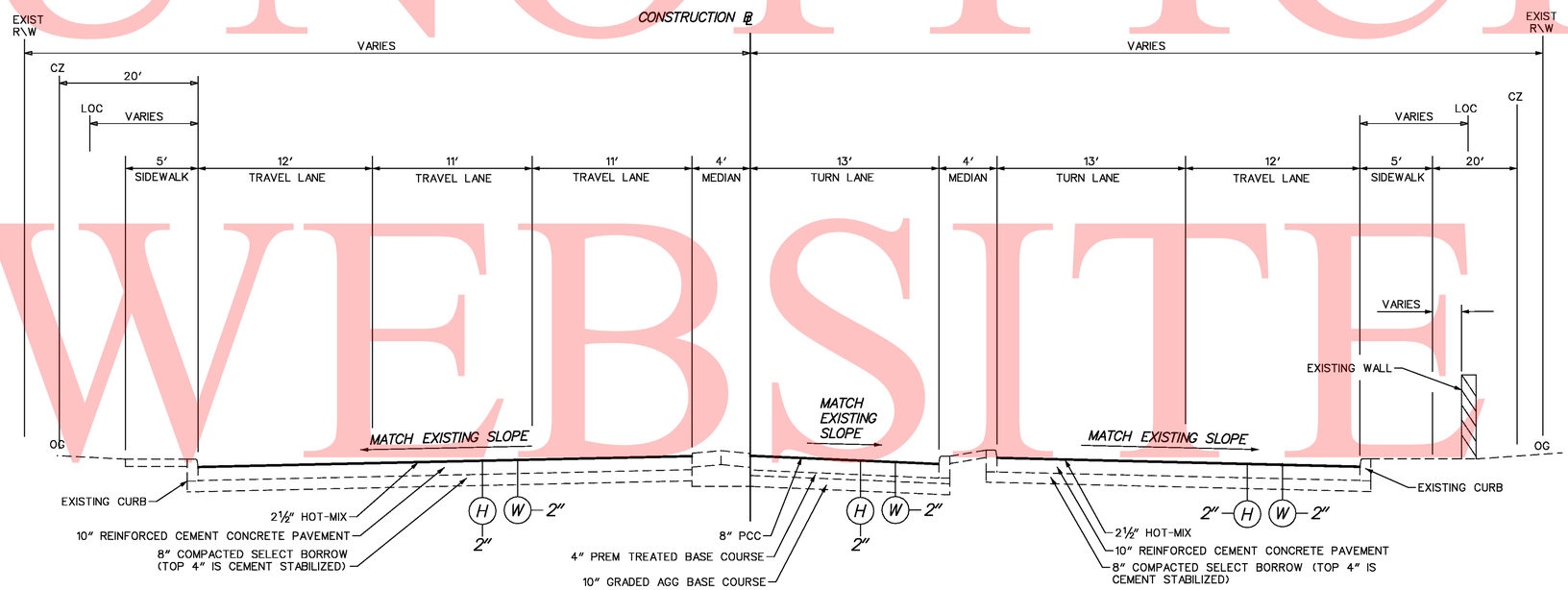
TYPE C HOT-MIX: 2" DEPTH
TYPE B HOT-MIX: 3" DEPTH
BITUMINOUS CONCRETE BASE COURSE: 6" DEPTH
GRADED AGGREGATE BASE COURSE: 6" DEPTH

UNOFFICIAL WEBSITE COPY

Y:\Projects\Del41-202\Del95 Cont 5\Typicals\95ts04CS-Ramps.dgn

3/24/2011

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	TYPICALS	SHEET NO. 27
				COUNTY NEW CASTLE	DESIGNED BY: DAG	TS 21 OF 26	TOTAL SHTS. 482
					CHECKED BY: BMD		



SR 202 /US 202 (CONCORD PIKE)

STA 1213+55.00 TO STA 1218+87.00

LEGEND

- (A) ITEM 401711 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)
- (B) ITEM 401660 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 76-22
- (D) ITEM 401669 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 64-22, WEDGE
- (F) ITEM 401663 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 760508 - PROFILE MILLING, HOT-MIX
- (I) ITEM 501004 - PORTLAND CEMENT CONCRETE PAVEMENT, 10″
- (J) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12″
- (K) ITEM 501526 - PATTERNED PORTLAND CEMENT CONCRETE PAVEMENT, 8″
- (L) ITEM 701010- PORTLAND CEMENT CONCRETE CURB, TYPE 1 (WITHOUT GUARDRAIL INSTALLATION)
- (M) GUARDRAIL MAINTENANCE STRIP, SEE CONSTRUCTION DETAIL
- (N) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 3 (WITH GUARDRAIL INSTALLATION)
- (O) ITEM 712527 - TURF REINFORCING MAT
- (P) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (DITCH LINING)
- (Q) ITEM 701500 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL
- (R) ITEM 760504 - RUMBLE STRIPS, HOT MIX
- (S) ITEM 732002 - TOPSOIL, 6″ DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
  ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (SLOPES STEEPER THAN 2:1)
- (T) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6″
- (U) ITEM 401577 - PAVER-LAID ULTRATHIN HOT MIX
- (V) ITEM 209006 - TYPE F BORROW
- (W) ITEM 401517 - STONE MATRIX ASPHALT WEARING SURFACE
- (Y) ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1
- (Z) ITEM 720529 - SAFETY BARRIER, PERMANENT, SINGLE FACE, SEE CONSTRUCTION DETAIL

NOTE:
OUTSIDE SHOULDER WIDTHS 12′ OR GREATER INCLUDE A 2′ OFFSET.
INSIDE SHOULDER WIDTHS 8′ OR GREATER INCLUDE A 2′ OFFSET.

MAXIMUM SINGLE LIFT OF PAVING MATERIAL

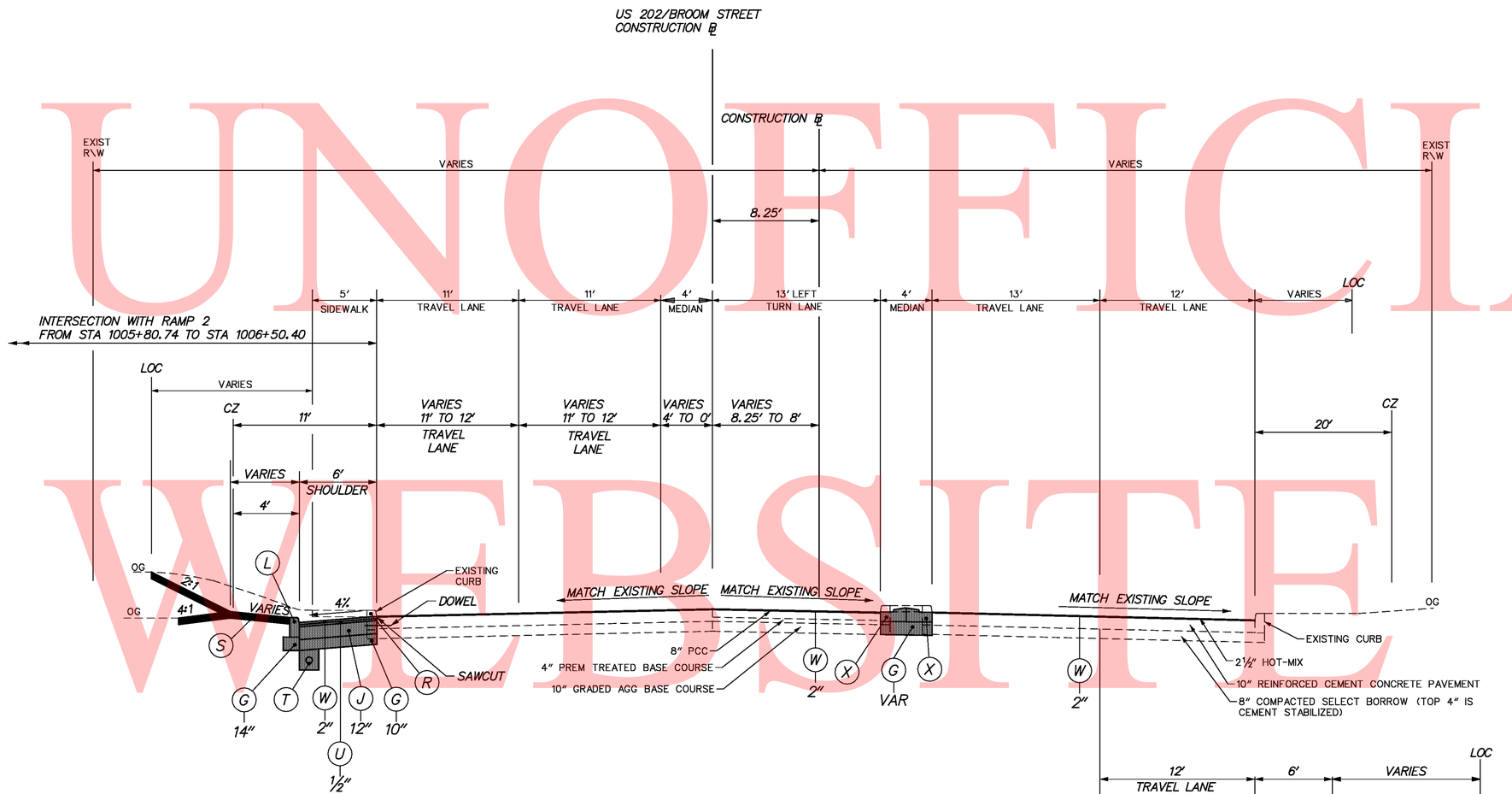
TYPE C HOT-MIX: 2″ DEPTH
TYPE B HOT-MIX: 3″ DEPTH
BITUMINOUS CONCRETE BASE COURSE: 6″ DEPTH
GRADED AGGREGATE BASE COURSE: 6″ DEPTH

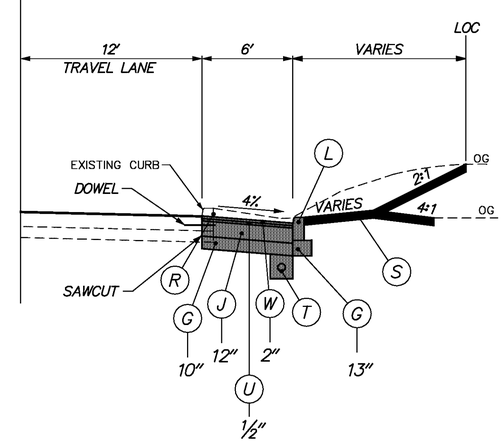
UNOFFICIAL WEBSITE COPY

Y:\Projects\Del41-202\Del195 Cont 5\Typicals\95ts03C5-US202.dgn

3/24/2011

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	TYPICALS TS 22 OF 26	SHEET NO. 28
				COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
					CHECKED BY: BMD		





US 202 (CONCORD PIKE)

STA 1005+80.74 TO STA 1008+83.00

STA 1006+23.37 TO STA 1008+83.00

LEGEND

- (A) ITEM 401711 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)
- (B) ITEM 401660 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 76-22
- (D) ITEM 401669 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 64-22, WEDGE
- (F) ITEM 401663 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (H) ITEM 760508 - PROFILE MILLING, HOT-MIX
- (I) ITEM 501004 - PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (J) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
- (K) ITEM 501526 - PATTERNED PORTLAND CEMENT CONCRETE PAVEMENT, 8"
- (L) ITEM 701010- PORTLAND CEMENT CONCRETE CURB, TYPE 1 (WITHOUT GUARDRAIL INSTALLATION)
- (M) GUARDRAIL MAINTENANCE STRIP, SEE CONSTRUCTION DETAIL
- (N) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 3 (WITH GUARDRAIL INSTALLATION)
- (O) ITEM 712527 - TURF REINFORCING MAT
- (P) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (DITCH LINING)
- (Q) ITEM 701500 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL
- (R) ITEM 760504 - RUMBLE STRIPS, HOT MIX
- (S) ITEM 732002 - TOPSOIL, 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
  ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5 (SLOPES STEEPER THAN 2:1)
- (T) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
- (U) ITEM 401577 - PAVER-LAID ULTRATHIN HOT MIX
- (V) ITEM 209006 - TYPE F BORROW
- (W) ITEM 401517 - STONE MATRIX ASPHALT WEARING SURFACE
- (Y) ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1
- (Z) ITEM 720529 - SAFETY BARRIER, PERMANENT, SINGLE FACE, SEE CONSTRUCTION DETAIL

NOTE:
OUTSIDE SHOULDER WIDTHS 12' OR GREATER INCLUDE A 2' OFFSET.
INSIDE SHOULDER WIDTHS 8' OR GREATER INCLUDE A 2' OFFSET.

MAXIMUM SINGLE LIFT OF PAVING MATERIAL

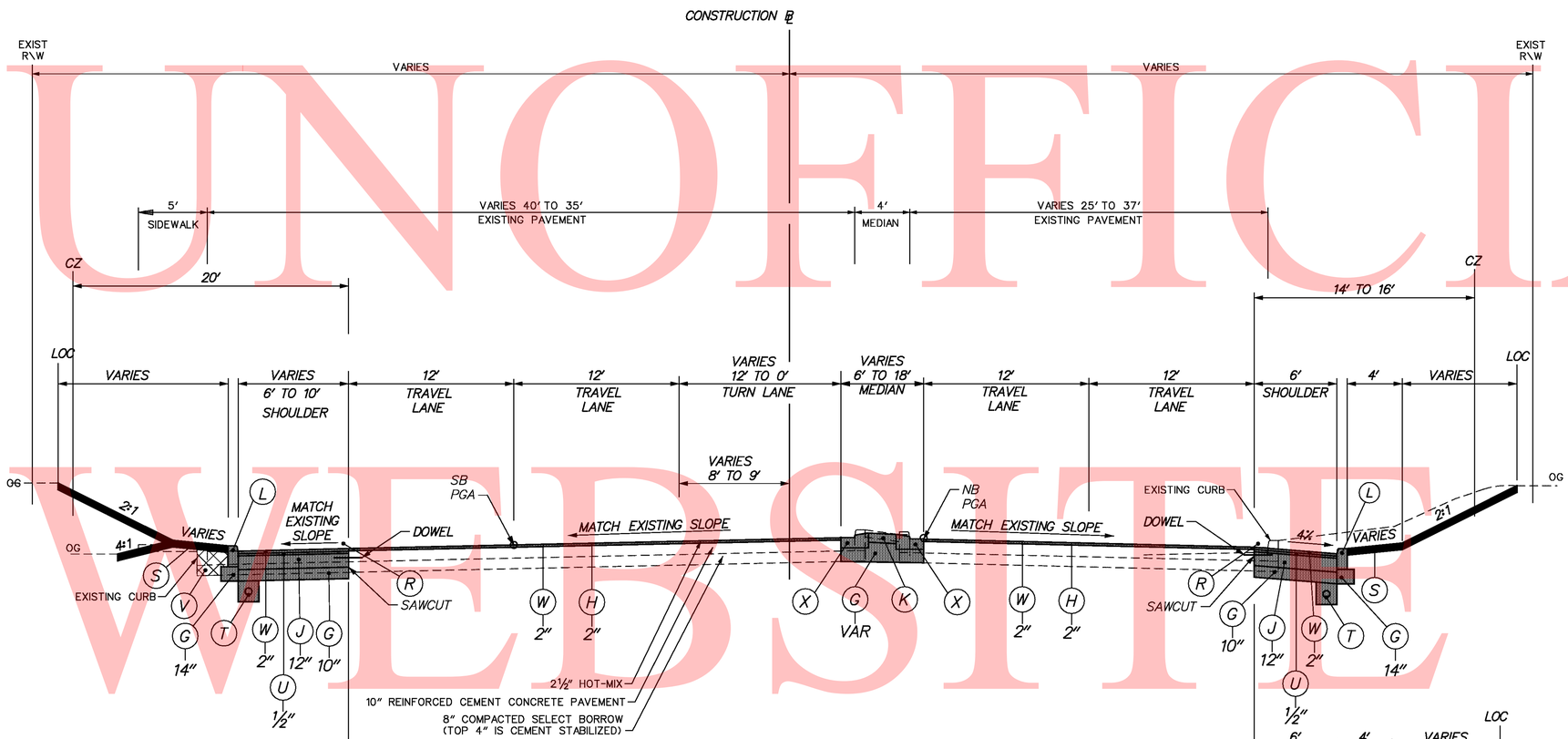
TYPE C HOT-MIX: 2" DEPTH
TYPE B HOT-MIX: 3" DEPTH
BITUMINOUS CONCRETE BASE COURSE: 6" DEPTH
GRADED AGGREGATE BASE COURSE: 6" DEPTH

UNOFFICIAL WEBSITE COPY

Y:\Projects\Del41-202\Del95 Cont 5\Typicals\195s03C5-US202.dgn

3/24/2011

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	TYPICALS	SHEET NO. 29
				COUNTY NEW CASTLE	DESIGNED BY: DAG	TS 23 OF 26	TOTAL SHTS. 482
					CHECKED BY: BMD		



STA 1010+26.17 TO STA 1011+76.59

STA 1010+72.54 TO STA 1011+72.46

US 202 (CONCORD PIKE)

STA 1008+83.00 TO STA 1011+76.59

LEGEND

- (A) ITEM 401711 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)
- (B) ITEM 401660 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 76-22
- (D) ITEM 401669 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 64-22, WEDGE
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- (N) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 3 (WITH GUARDRAIL INSTALLATION)
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  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
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- (Z) ITEM 720529 - SAFETY BARRIER, PERMANENT, SINGLE FACE, SEE CONSTRUCTION DETAIL

NOTE:
OUTSIDE SHOULDER WIDTHS 12' OR GREATER INCLUDE A 2' OFFSET.
INSIDE SHOULDER WIDTHS 8' OR GREATER INCLUDE A 2' OFFSET.

MAXIMUM SINGLE LIFT OF PAVING MATERIAL

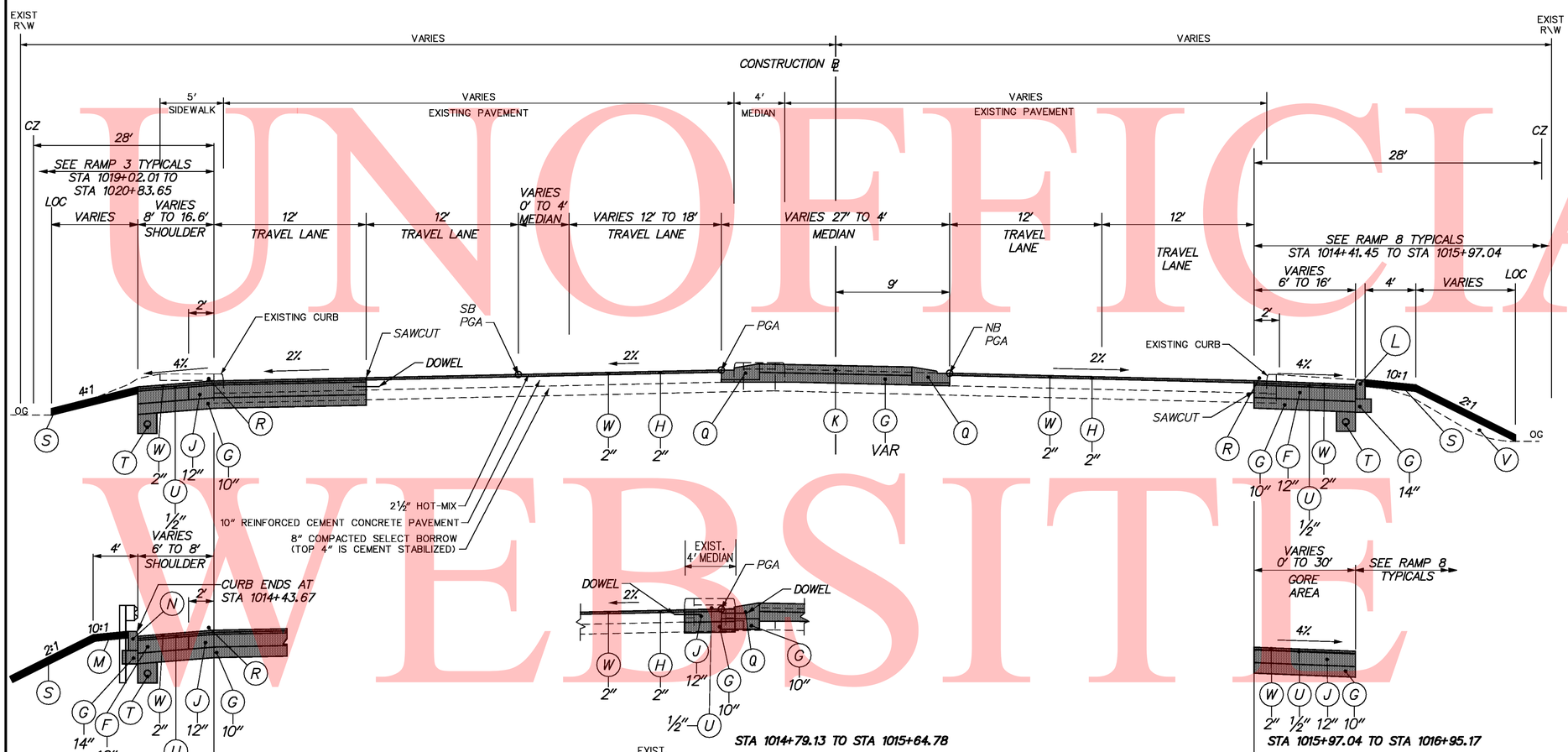
TYPE C HOT-MIX: 2" DEPTH
TYPE B HOT-MIX: 3" DEPTH
BITUMINOUS CONCRETE BASE COURSE: 6" DEPTH
GRADED AGGREGATE BASE COURSE: 6" DEPTH

UNOFFICIAL WEBSITE COPY

Y:\Projects\Del4I-202\Del95 Cont 5\Typicals\95ts03C5-US202.dgn

3/24/2011

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	TYPICALS	SHEET NO. 30
				COUNTY NEW CASTLE	DESIGNED BY: DAG	TS 24 OF 26	TOTAL SHTS. 482
					CHECKED BY: BMD		



US 202 (CONCORD PIKE)

STA 1013+64.78 TO STA 1017+00.00

LEGEND

- (A) ITEM 401711 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)
- (B) ITEM 401660 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 76-22
- (D) ITEM 401669 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 64-22, WEDGE
- (F) ITEM 401663 - SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (G) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
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NOTE:
OUTSIDE SHOULDER WIDTHS 12' OR GREATER INCLUDE A 2' OFFSET.
INSIDE SHOULDER WIDTHS 8' OR GREATER INCLUDE A 2' OFFSET.

MAXIMUM SINGLE LIFT OF PAVING MATERIAL

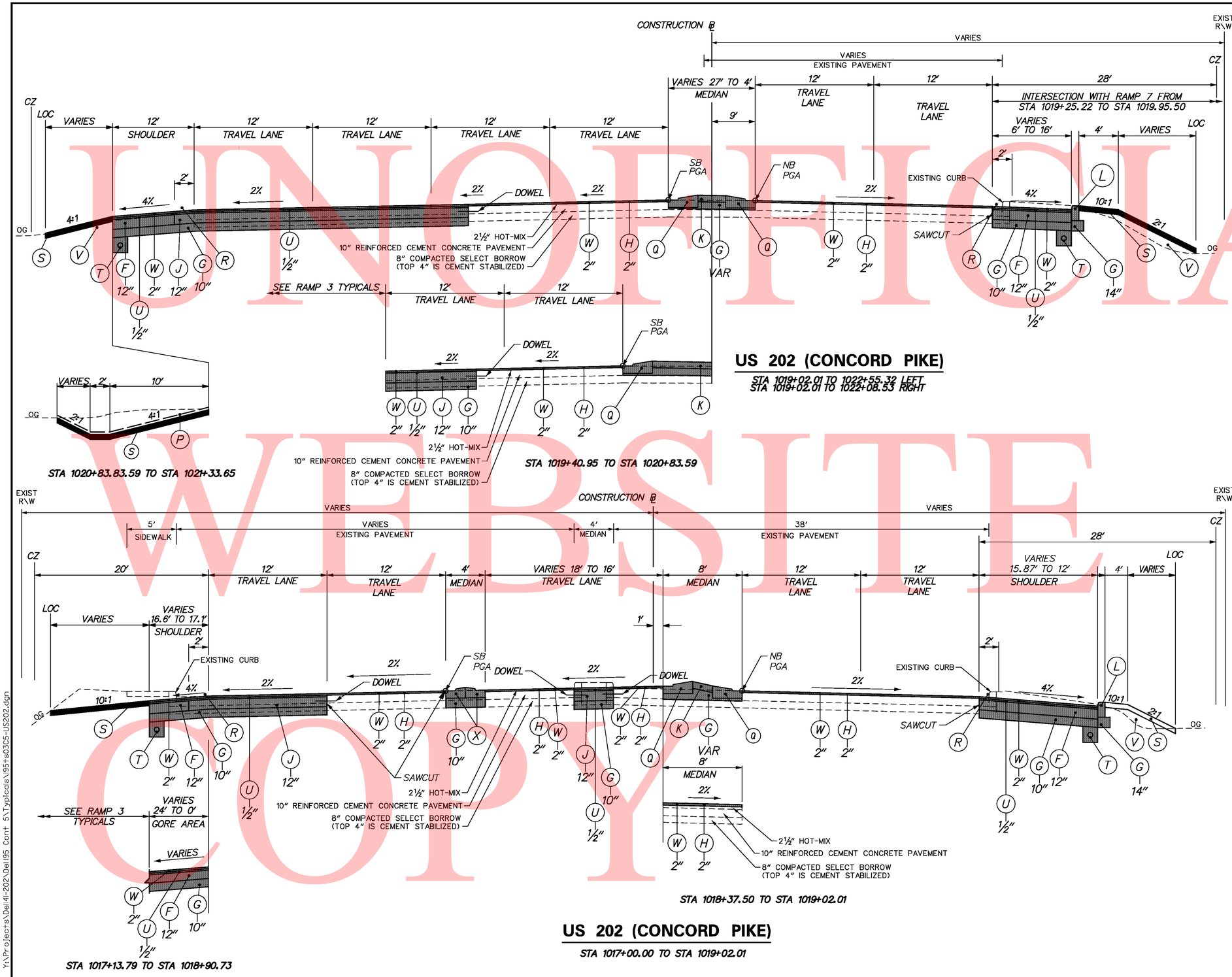
TYPE C HOT-MIX: 2" DEPTH
TYPE B HOT-MIX: 3" DEPTH
BITUMINOUS CONCRETE BASE COURSE: 6" DEPTH
GRADED AGGREGATE BASE COURSE: 6" DEPTH

UNOFFICIAL WEBSITE COPY

Y:\Projects\Del41-202\Del95 Cont 5\Typicals\95ts03C5-US202.dgn

3/24/2011

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	TYPICALS	SHEET NO. 31
				COUNTY NEW CASTLE	DESIGNED BY: DAG	TS 25 OF 26	TOTAL SHTS. 482
					CHECKED BY: BMD		



LEGEND

- (A) ITEM 401711 - SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)
- (B) ITEM 401660 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 76-22
- (D) ITEM 401669 - SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 64-22, WEDGE
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NOTE:
OUTSIDE SHOULDER WIDTHS 12' OR GREATER INCLUDE A 2' OFFSET.
INSIDE SHOULDER WIDTHS 8' OR GREATER INCLUDE A 2' OFFSET.

MAXIMUM SINGLE LIFT OF PAVING MATERIAL

TYPE C HOT-MIX: 2" DEPTH
TYPE B HOT-MIX: 3" DEPTH
BITUMINOUS CONCRETE BASE COURSE: 6" DEPTH
GRADED AGGREGATE BASE COURSE: 6" DEPTH

UNOFFICIAL WEBSITE COPY

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3/24/2011

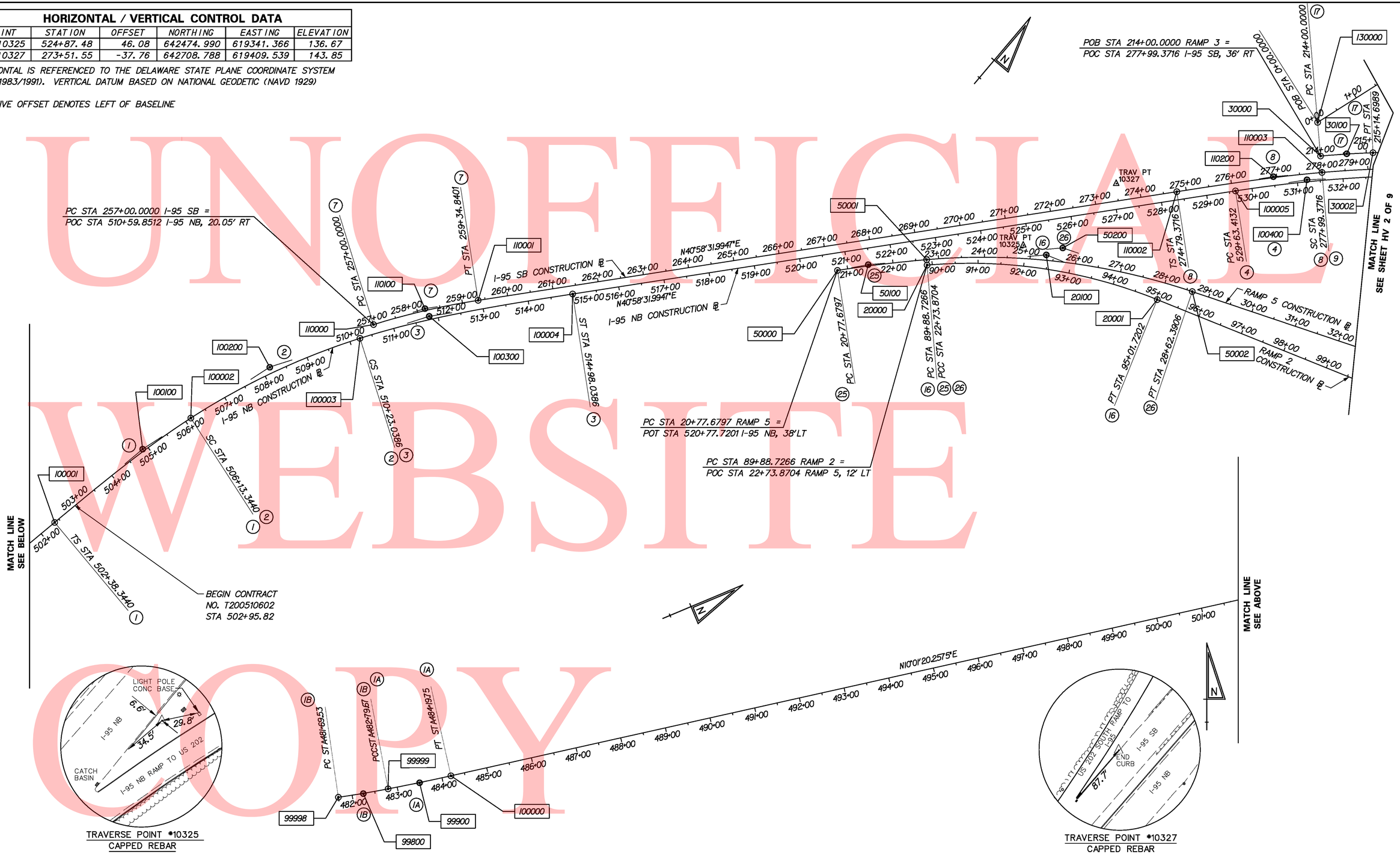
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	TYPICALS TS 26 OF 26	SHEET NO. 32
				COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
					CHECKED BY: BMD		

HORIZONTAL / VERTICAL CONTROL DATA

POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
TP-10325	524+87.48	46.08	642474.990	619341.366	136.67
TP-10327	273+51.55	-37.76	642708.788	619409.539	143.85

HORIZONTAL IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 1983/1991). VERTICAL DATUM BASED ON NATIONAL GEODETIC (NAVD 1929)

NEGATIVE OFFSET DENOTES LEFT OF BASELINE



UNOFFICIAL WEBSITE COPY

Y:\Projects\Del4l-202\Del95 Cont 5\Geometry\195gs01c5.dgn

11/1/2010

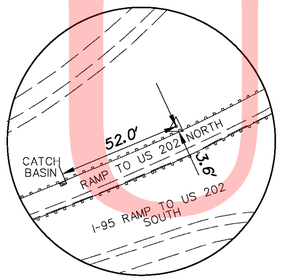
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	0 50 100 150 200 1" = 100'	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	HORIZONTAL AND VERTICAL CONTROL SHEET HV 1 OF 9	SHEET NO. 33
				COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
					CHECKED BY: BMD		

HORIZONTAL / VERTICAL CONTROL DATA

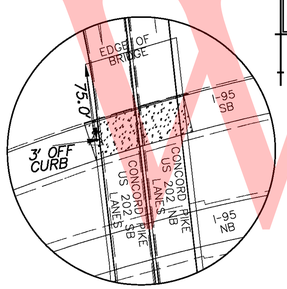
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
TP-305	4+53.94	-23.24	644167.2050	620760.8570	226.3000
TP-306	453+53.35	-30.18	644246.1230	621403.7490	222.5600
TP-10326	37+15.58	6.52	642953.8760	620480.3590	173.3300
TP-10328	1013+36.92	-49.08	643614.2510	620590.5680	205.6200

HORIZONTAL IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 1983/1991). VERTICAL DATUM BASED ON NATIONAL GEODETIC (NAVD 1929)

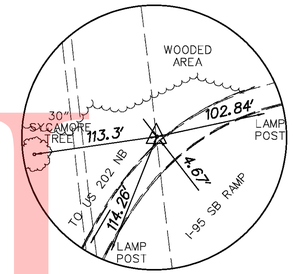
NEGATIVE OFFSET DENOTES LEFT OF BASELINE



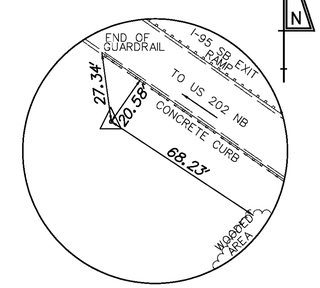
TRAVERSE POINT #10326
CAPPED REBAR



TRAVERSE POINT #10328
DRILL HOLE



TRAVERSE POINT #305
CAPPED REBAR



TRAVERSE POINT #306
CAPPED REBAR

POE STA 164+60.02222 RAMP 1 =
POT STA 1019+40.5091 US 202

PC STA 0+00.0000 RAMP 8 =
POT STA 1014+41.4485 US 202, 33' LT

PC STA 180+00.0000 RAMP 6 =
POT STA 1012+03.0034 US 202, 45' RT

POE STA 106+36.3770 RAMP 2 =
POT STA 1006+40.2087 US 202

POT STA 1005+80.7356 US 202=
POT STA 1218+87.0000 US 202, 8.25' LT

PC STA 62+00.0000 RAMP 1=
POT STA 1218+02.5696 US 202, 42' LT

TS STA 297+66.3605 I-95=
POE STA 297+70.7101 I-95 SB, 42' LT

TS STA 297+66.3605 I-95=
POE STA 551+03.3745 I-95 NB, 42' RT

MATCH LINE SEE SHEET HV 1 OF 9

MATCH LINE SEE SHEET HV 4 OF 9

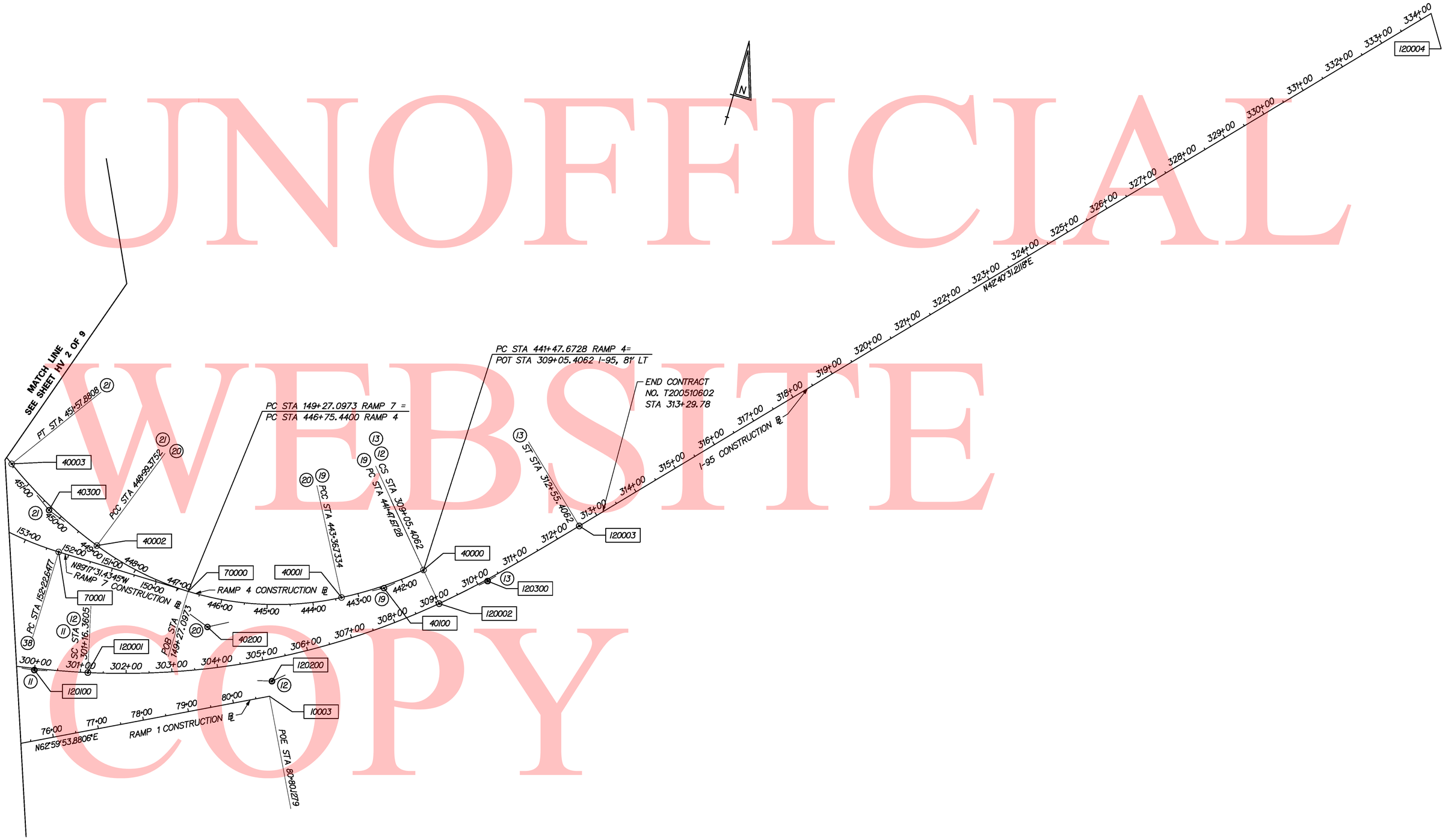
MATCH LINE SEE SHEET HV 3 OF 9

UNOFFICIAL VERSION COPY

Y:\Projects\Del141-202\Del195 Cont 5\Geometry\195gs02c5.dgn

11/11/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	0 50 100 150 200 1" = 100'	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	HORIZONTAL AND VERTICAL CONTROL SHEET HV 2 OF 9	SHEET NO. 34
				COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
					CHECKED BY: BMD		



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Y:\Projects\Del141-202\Del195 Cont 5\Geometry\195gs03c5.dgn

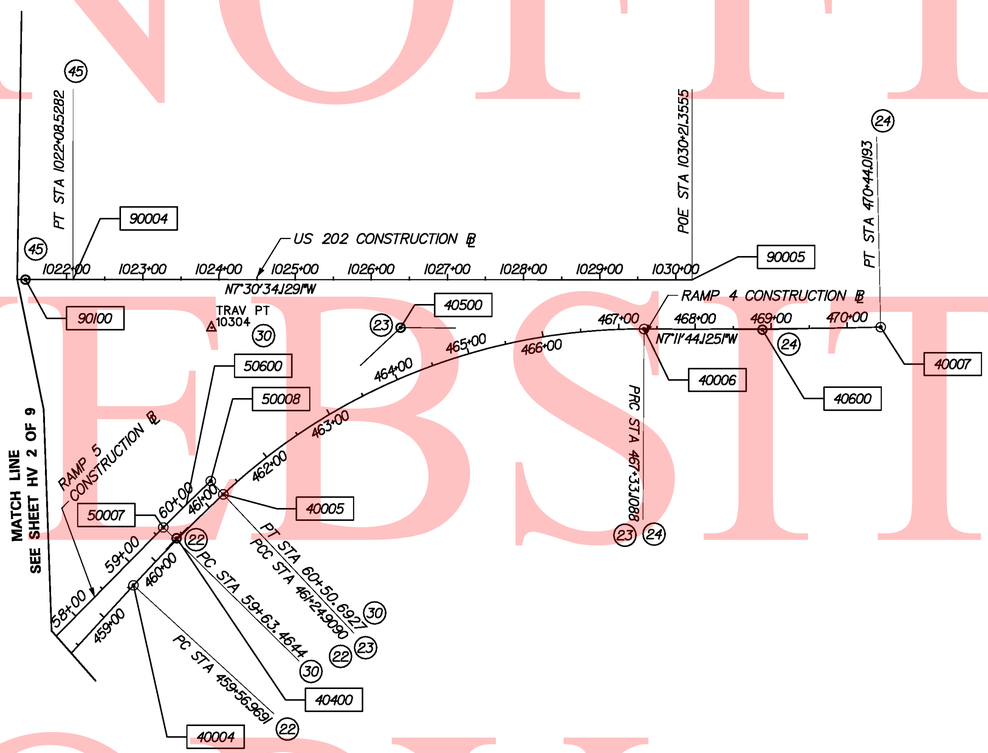
11/1/2010

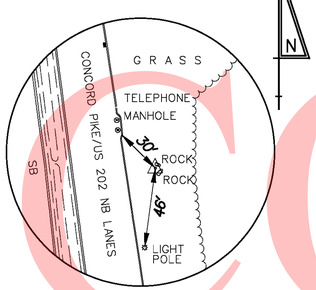
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	0 50 100 150 200 1" = 100'	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	HORIZONTAL AND VERTICAL CONTROL SHEET HV 3 OF 9	SHEET NO. 35
				COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
					CHECKED BY: BMD		

HORIZONTAL / VERTICAL CONTROL DATA					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
TP-10304	1023+90.42	63.12	644674.2030	620577.3570	258.1200

HORIZONTAL IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 1983/1991). VERTICAL DATUM BASED ON NATIONAL GEODETIC (NAVD 1929)

NEGATIVE OFFSET DENOTES LEFT OF BASELINE





TRAVERSE POINT #10304
CAPPED REBAR

UNOFFICIAL WEBSITE COPY

Y:\Projects\Del141-202\Del195 Cont 5\Geometry\195gs04c5.cgn

11/1/2010

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

0 50 100 150 200
1" = 100'

I-95 & US 202 INTERCHANGE

CONTRACT	BRIDGE NO.	NA
T200510602	DESIGNED BY:	DAG
COUNTY		
NEW CASTLE	CHECKED BY:	BMD

HORIZONTAL AND VERTICAL CONTROL SHEET
HV 4 OF 9

SHEET NO. 36
TOTAL SHTS. 482

I-95 NORTHBOUND

CIRCULAR CURVE NO (1B)

	STATION	NORTHING	EASTING
	ELEMENT: CIRCULAR		
PC (99998)	481+69.5300	638611.7715	617747.7496
PI (99800)	482+24.6110	638664.5412	617761.3727
CC (99801)		639205.4913	615419.4542
PCC (99999)	482+79.6726	638718.4791	617772.5361

RADIUS:	2402.9514
DELTA:	2°37'34.4361" LEFT
DEGREE OF CURVATURE (ARC):	2°23'03.8109"
LENGTH:	110.1426
TANGENT:	55.0810
CHORD:	110.1330
MIDDLE ORDINATE:	0.6310
EXTERNAL:	0.6312
TANGENT DIRECTION:	N 14°19'10.2575" E
RADIAL DIRECTION:	S 75°40'49.7425" E
CHORD DIRECTION:	N 13°00'23.0394" E
RADIAL DIRECTION:	S 78°18'24.1786" E
TANGENT DIRECTION:	N 11°41'35.8214" E

CIRCULAR CURVE NO (1A)

	STATION	NORTHING	EASTING
	ELEMENT: CIRCULAR		
PCC (99999)	482+79.6726	638718.4791	617772.5361
PI (99900)	483+49.7149	638787.0677	617786.7318
CC (99901)		639691.9053	613069.2624
PT (100000)	484+19.7472	638856.0412	617798.9213

RADIUS:	4802.9514
DELTA:	1°40'15.5639" LEFT
DEGREE OF CURVATURE (ARC):	1°11'34.5428"
LENGTH:	140.0746
TANGENT:	70.0423
CHORD:	140.0696
MIDDLE ORDINATE:	0.5106
EXTERNAL:	0.5107
TANGENT DIRECTION:	N 11°41'35.8214" E
RADIAL DIRECTION:	S 78°18'24.1786" E
CHORD DIRECTION:	N 10°51'28.0394" E
RADIAL DIRECTION:	S 79°58'39.7425" E
TANGENT DIRECTION:	N 10°01'20.2575" E

SPIRAL CURVE NO (1)

	STATION	NORTHING	EASTING
	ELEMENT: CLOTHOID		
TS (100001)	502+38.3440	640646.8864	618115.4142
SPI (100100)	504+88.5371	640893.2616	618158.9556
SC (100002)	506+13.3440	641012.9833	618195.5021

ENTRANCE RADIUS:	0.0000
EXIT RADIUS:	1545.0547
LENGTH:	375.0000
ANGLE:	6°57'11.2500" RIGHT
CONSTANT:	761.1803
LONG TANGENT:	250.1931
SHORT TANGENT:	125.1756
LONG CHORD	374.7546
Xs:	374.4481
Ys:	15.1534
P:	3.7903
K:	187.4080
TANGENT DIRECTION:	N 10°01'20.2575" E
RADIAL DIRECTION:	S 79°58'39.7425" E
CHORD DIRECTION:	N 12°20'22.9669" E
RADIAL DIRECTION:	S 73°01'28.4925" E
TANGENT DIRECTION:	N 16°58'31.5075" E

CIRCULAR CURVE NO (2)

	STATION	NORTHING	EASTING
	ELEMENT: CIRCULAR		
SC (100002)	506+13.3440	641012.9833	618195.5021
PI (100200)	508+19.4001	641210.0616	618255.6625
CC (100201)		640561.8870	619673.2389
CS (100003)	510+23.0386	641384.4857	618365.3683

RADIUS:	1545.0547
DELTA:	15°11'34.2372" RIGHT
DEGREE OF CURVATURE (ARC):	3°42'30.0000"
LENGTH:	409.6947
TANGENT:	206.0561
CHORD:	408.4954
MIDDLE ORDINATE:	13.5597
EXTERNAL:	13.6798
TANGENT DIRECTION:	N 16°58'31.5075" E
RADIAL DIRECTION:	S 73°01'28.4925" E
CHORD DIRECTION:	N 24°34'18.6226" E
RADIAL DIRECTION:	S 57°49'54.2553" E
TANGENT DIRECTION:	N 32°10'05.7447" E

SPIRAL CURVE NO (3)

	STATION	NORTHING	EASTING
	ELEMENT: CLOTHOID		
CS (100003)	510+23.0386	641384.4857	618365.3683
SPI (100300)	511+81.7291	641518.8153	618449.8563
ST (100004)	514+98.0386	641758.1919	618657.7640

ENTRANCE RADIUS:	1545.0547
EXIT RADIUS:	0.0000
LENGTH:	475.0000
ANGLE:	8°48'26.2500" RIGHT
CONSTANT:	856.6802
LONG TANGENT:	317.0595
SHORT TANGENT:	158.6905
LONG CHORD	474.5014
Xs:	473.8789
Ys:	24.2974
P:	6.0795
K:	237.3131
TANGENT DIRECTION:	N 32°10'05.7447" E
RADIAL DIRECTION:	S 57°49'54.2553" E
CHORD DIRECTION:	N 38°02'25.3600" E
RADIAL DIRECTION:	S 49°01'28.0053" E
TANGENT DIRECTION:	N 40°58'31.9947" E

CIRCULAR CURVE NO (4)

	STATION	NORTHING	EASTING
	ELEMENT: CIRCULAR		
PC (100005)	529+63.4132	642864.5342	619618.6642
PI (100400)	531+21.4809	642983.8736	619722.3151
CC (100401)		640985.9862	621781.5496
PCC (100006)	532+79.2284	643091.0853	619838.4661

RADIUS:	2864.7890
DELTA:	6°18'58.6923" RIGHT
DEGREE OF CURVATURE (ARC):	1°59'59.9999"
LENGTH:	315.8152
TANGENT:	158.0677
CHORD:	315.6553
MIDDLE ORDINATE:	4.3508
EXTERNAL:	4.3575
TANGENT DIRECTION:	N 40°58'31.9947" E
RADIAL DIRECTION:	S 49°01'28.0053" E
CHORD DIRECTION:	N 44°08'01.3408" E
RADIAL DIRECTION:	S 42°42'29.3130" E
TANGENT DIRECTION:	N 47°17'30.6870" E

CIRCULAR CURVE NO (5)

	STATION	NORTHING	EASTING
	ELEMENT: CIRCULAR		
PCC (100006)	532+79.2284	643091.0853	619838.4661
PI (100500)	537+90.9760	643438.1854	620214.5076
CC (100501)		641687.6859	621133.8551
CS (100007)	542+79.2328	643550.7609	620713.7194

RADIUS:	1909.8593
DELTA:	30°00'00.4851" RIGHT
DEGREE OF CURVATURE (ARC):	3°00'00.0001"
LENGTH:	1000.0045
TANGENT:	511.7477
CHORD:	988.6203
MIDDLE ORDINATE:	65.0775
EXTERNAL:	67.3732
TANGENT DIRECTION:	N 47°17'30.6870" E
RADIAL DIRECTION:	S 42°42'29.3130" E
CHORD DIRECTION:	N 62°17'30.9295" E
RADIAL DIRECTION:	S 12°42'28.8280" E
TANGENT DIRECTION:	N 77°17'31.1720" E

SPIRAL CURVE NO (6)

	STATION	NORTHING	EASTING
	ELEMENT: CLOTHOID		
CS (100007)	542+79.2328	643550.7609	620713.7194
SPI (100600)	543+95.9929	643576.4461	620827.6192
ST (100008)	546+29.2328	643606.7460	621059.0805

ENTRANCE RADIUS:	1909.8593
EXIT RADIUS:	0.0000
LENGTH:	350.0000
ANGLE:	5°15'00.0002" RIGHT
CONSTANT:	817.5884
LONG TANGENT:	233.4360
SHORT TANGENT:	116.7600
LONG CHORD	349.8694
Xs:	349.7063
Ys:	10.6837
P:	2.6717
K:	174.9510
TANGENT DIRECTION:	N 77°17'31.1720" E
RADIAL DIRECTION:	S 12°42'28.8280" E
CHORD DIRECTION:	N 80°47'31.6200" E
RADIAL DIRECTION:	S 7°27'28.8278" E
TANGENT DIRECTION:	N 82°32'31.1722" E

POINT	TYPE	STATION	NORTH	EAST
100009	POE	551+03.3745	643668.2893	621529.2110

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CIRCULAR CURVE NO (7)

	STATION	NORTHING	EASTING
	ELEMENT: CIRCULAR		
PC (110000)	257+00.0000	641426.4783	618368.6030
PI (110100)	258+17.6313	641525.6147	618431.9204
CC (110101)		640565.2460	619717.0387
PT (110001)	259+34.8401	641614.4251	618509.0557

RADIUS:	1600.0000
DELTA:	8°24'34.5341" RIGHT
DEGREE OF CURVATURE (ARC):	3°34'51.5504"
LENGTH:	234.8401
TANGENT	117.6313
CHORD:	234.6294
MIDDLE ORDINATE	4.3067
EXTERNAL:	4.3183
TANGENT DIRECTION:	N 32°33'57.4605" E
RADIAL DIRECTION:	S 57°26'02.5395" E
CHORD DIRECTION:	N 36°46'14.7276" E
RADIAL DIRECTION:	S 49°01'28.0053" E
TANGENT DIRECTION:	N 40°58'31.9947" E

SPIRAL CURVE NO (8)

	STATION	NORTHING	EASTING
	ELEMENT: CLOTHOID		
TS (110002)	274+79.3716	642780.5300	619521.8620
SPI (110200)	276+92.7559	642941.6329	619661.7860
SC (110003)	277+99.3716	643017.2978	619737.0354

ENTRANCE RADIUS:	0.0000
EXIT RADIUS:	2370.8271
LENGTH:	320.0000
ANGLE:	3°52'00.1922" RIGHT
CONSTANT:	871.0136
LONG TANGENT:	213.3843
SHORT TANGENT:	106.7129
LONG CHORD	319.9352
Xs:	319.8543
Ys:	7.1963
P:	1.7994
K:	159.9757
TANGENT DIRECTION:	N 40°58'31.9947" E
RADIAL DIRECTION:	S 49°01'28.0053" E
CHORD DIRECTION:	N 42°15'51.8759" E
RADIAL DIRECTION:	S 45°09'27.8131" E
TANGENT DIRECTION:	N 44°50'32.1869" E

CIRCULAR CURVE NO (9)

	STATION	NORTHING	EASTING
	ELEMENT: CIRCULAR		
SC (110003)	277+99.3716	643017.2978	619737.0354
PI (110300)	285+19.8967	643528.1866	620245.1192
CC (110301)		641345.4911	621418.0719
CS (110004)	291+98.3626	643669.9664	620951.5574

RADIUS:	2370.8271
DELTA:	33°48'33.8982" RIGHT
DEGREE OF CURVATURE (ARC):	2°25'00.1201"
LENGTH:	1398.9910
TANGENT:	720.5252
CHORD:	1378.7821
MIDDLE ORDINATE:	102.4442
EXTERNAL:	107.0707
TANGENT DIRECTION:	N 44°50'32.1869" E
RADIAL DIRECTION:	S 45°09'27.8131" E
CHORD DIRECTION:	N 61°44'49.1360" E
RADIAL DIRECTION:	S 11°20'53.9149" E
TANGENT DIRECTION:	N 78°39'06.0851" E

SPIRAL CURVE NO (10)

	STATION	NORTHING	EASTING
	ELEMENT: CLOTHOID		
CS (110004)	291+98.3626	643669.9664	620951.5574
SPI (110400)	293+05.0755	643690.9646	621056.1839
ST (110005)	295+18.3626	643718.7489	621267.7517

ENTRANCE RADIUS:	2370.8271
EXIT RADIUS:	0.0000
LENGTH:	320.0000
ANGLE:	3°52'00.1922" RIGHT
CONSTANT:	871.0136
LONG TANGENT:	213.3843
SHORT TANGENT:	106.7129
LONG CHORD	319.9352
Xs:	319.8543
Ys:	7.1963
P:	1.7994
K:	159.9757
TANGENT DIRECTION:	N 78°39'06.0851" E
RADIAL DIRECTION:	S 11°20'53.9149" E
CHORD DIRECTION:	N 81°13'46.3961" E
RADIAL DIRECTION:	S 7°28'53.7227" E
TANGENT DIRECTION:	N 82°31'06.2773" E

POINT	TYPE	STATION	NORTH	EAST
100006	POE	297+70.7101	643751.6064	621517.9509

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SPIRAL CURVE NO (11)

	STATION	NORTHING	EASTING
ELEMENT:	CLOTHOID		
TS (120000)	297+66.3605	643709.8885	621523.4120
SPI (120100)	299+99.8336	643740.1932	621754.9101
SC (120001)	301+16.3605	643767.6227	621868.4372
ENTRANCE RADIUS:		0.0000	
EXIT RADIUS:		1637.0200	
LENGTH:		350.0000	
ANGLE:		6°07'30.0306" LEFT	
CONSTANT:		756.9392	
LONG TANGENT:		233.4732	
SHORT TANGENT:		116.7938	
LONG CHORD		349.8223	
Xs:		349.6002	
Ys:		12.4617	
P:		3.1167	
K:		174.9334	
TANGENT DIRECTION:		N 82°32'31.1722" E	
RADIAL DIRECTION:		S 7°27'28.8278" E	
CHORD DIRECTION:		N 80°30'01.8733" E	
RADIAL DIRECTION:		S 13°34'58.8584" E	
TANGENT DIRECTION:		N 76°25'01.1416" E	

CIRCULAR CURVE NO (12)

	STATION	NORTHING	EASTING
ELEMENT:	CIRCULAR		
SC (120001)	301+16.3605	643767.6227	621868.4372
PI (120200)	305+18.7032	643862.1145	622259.5267
CC (120201)		645358.8564	621483.9765
CS (120002)	309+05.4062	644127.1316	622562.2569
RADIUS:		1637.0200	
DELTA:		27°36'59.8992" LEFT	
DEGREE OF CURVATURE (ARC):		3°30'00.0175"	
LENGTH:		789.0457	
TANGENT:		402.3427	
CHORD:		781.4297	
MIDDLE ORDINATE:		47.3105	
EXTERNAL:		48.7185	
TANGENT DIRECTION:		N 76°25'01.1416" E	
RADIAL DIRECTION:		S 13°34'58.8584" E	
CHORD DIRECTION:		N 62°36'31.1920" E	
RADIAL DIRECTION:		S 41°11'58.7576" E	
TANGENT DIRECTION:		N 48°48'01.2424" E	

SPIRAL CURVE NO (13)

	STATION	NORTHING	EASTING
ELEMENT:	CLOTHOID		
CS (120002)	309+05.4062	644127.1316	622562.2569
SPI (120300)	310+22.2000	644204.0619	622650.1348
ST (120003)	312+55.4062	644375.7129	622808.3930
ENTRANCE RADIUS:		1637.0200	
EXIT RADIUS:		0.0000	
LENGTH:		350.0000	
ANGLE:		6°07'30.0306" LEFT	
CONSTANT:		756.9392	
LONG TANGENT:		233.4732	
SHORT TANGENT:		116.7938	
LONG CHORD		349.8223	
Xs:		349.6002	
Ys:		12.4617	
P:		3.1167	
K:		174.9334	
TANGENT DIRECTION:		N 48°48'01.2424" E	
RADIAL DIRECTION:		S 41°11'58.7576" E	
CHORD DIRECTION:		N 44°43'00.5108" E	
RADIAL DIRECTION:		S 47°19'28.7882" E	
TANGENT DIRECTION:		N 42°40'31.2118" E	

POINT	TYPE	STATION	NORTH	EAST
120000	POB	297+66.3605	643709.8885	621523.4120
120004	POE	334+25.7236	645971.3443	624279.5280

RAMP 1

CIRCULAR CURVE NO (14)

	STATION	NORTHING	EASTING
ELEMENT:	CIRCULAR		
PC (10000)	62+00.0000	642788.6341	620769.0597
PI (10100)	63+02.3269	642890.2903	620757.3640
CC (10101)		642814.9226	620997.5524
PCC (10001)	63+92.5579	642967.0405	620825.0411
RADIUS:		230.0000	
DELTA:		47°58'06.6070" RIGHT	
DEGREE OF CURVATURE (ARC):		24°54'40.3505"	
LENGTH:		192.5579	
TANGENT:		102.3269	
CHORD:		186.9833	
MIDDLE ORDINATE:		19.8588	
EXTERNAL:		21.7355	
TANGENT DIRECTION:		N 6°33'47.2742" W	
RADIAL DIRECTION:		N 83°26'12.7258" E	
CHORD DIRECTION:		N 17°25'16.0293" E	
RADIAL DIRECTION:		S 48°35'40.6673" E	
TANGENT DIRECTION:		N 41°24'19.3327" E	

CIRCULAR CURVE NO (15)

	STATION	NORTHING	EASTING
ELEMENT:	CIRCULAR		
PCC (10001)	63+92.5579	642967.0405	620825.0411
PI (10200)	67+04.7315	643201.1860	621031.5072
CC (10201)		641884.3447	622052.8865
PT (10002)	70+09.4979	643342.9181	621309.6517
RADIUS:		1637.0200	
DELTA:		21°35'34.5479" RIGHT	
DEGREE OF CURVATURE (ARC):		3°30'00.0175"	
LENGTH:		616.9400	
TANGENT:		312.1736	
CHORD:		613.2955	
MIDDLE ORDINATE:		28.9772	
EXTERNAL:		29.4994	
TANGENT DIRECTION:		N 41°24'19.3327" E	
RADIAL DIRECTION:		S 48°35'40.6673" E	
CHORD DIRECTION:		N 52°12'06.6067" E	
RADIAL DIRECTION:		S 27°00'06.1194" E	
TANGENT DIRECTION:		N 62°59'53.8806" E	

POINT	TYPE	STATION	NORTH	EAST
10003	POE	80+80.1279	643829.0023	622263.5756

RAMP 2

CIRCULAR CURVE NO (16)

	STATION	NORTHING	EASTING
ELEMENT:	CIRCULAR		
PC (20000)	89+88.7266	642306.0596	619208.6912
PI (20100)	92+50.0323	642491.1549	619393.1375
CC (20101)		641534.1041	619983.3632
PT (20001)	95+01.7202	642572.8769	619641.3353
RADIUS:		1093.6325	
DELTA:		26°52'33.2779" RIGHT	
DEGREE OF CURVATURE (ARC):		5°14'20.5232"	
LENGTH:		512.9936	
TANGENT:		261.3057	
CHORD:		508.3034	
MIDDLE ORDINATE:		29.9413	
EXTERNAL:		30.7841	
TANGENT DIRECTION:		N 44°53'57.7221" E	
RADIAL DIRECTION:		S 45°06'02.2779" E	
CHORD DIRECTION:		N 58°20'14.3611" E	
RADIAL DIRECTION:		S 18°13'29.0000" E	
TANGENT DIRECTION:		N 71°46'31.0000" E	

POINT	TYPE	STATION	NORTH	EAST
20002	POE	106+36.3770	642927.7349	620719.0746

RAMP 3

CIRCULAR CURVE NO (17)

	STATION	NORTHING	EASTING
ELEMENT:	CIRCULAR		
PC (30000)	214+00.0000	643042.6835	619711.5096
PI (30100)	214+57.3603	643083.2548	619751.9576
CC (30101)		641345.4911	621418.0719
PT (30002)	215+14.6989	643122.0531	619794.2973
RADIUS:		2406.8271	
DELTA:		2°43'49.6793" RIGHT	
DEGREE OF CURVATURE (ARC):		2°22'19.9885"	
LENGTH:		114.6989	
TANGENT:		57.3603	
CHORD:		114.6880	
MIDDLE ORDINATE:		0.6832	
EXTERNAL:		0.6834	
TANGENT DIRECTION:		N 44°50'32.1897" E	
RADIAL DIRECTION:		S 45°09'27.8103" E	
CHORD DIRECTION:		N 46°12'27.0293" E	
RADIAL DIRECTION:		S 42°25'38.1310" E	
TANGENT DIRECTION:		N 47°34'21.8690" E	

CIRCULAR CURVE NO (18)

	STATION	NORTHING	EASTING
ELEMENT:	CIRCULAR		
PC (30003)	221+95.0467	643581.0523	620296.4855
PI (30200)	225+44.0558	643816.5125	620554.1011
CC (30201)		644097.7464	619824.2279
PT (30004)	228+42.5670	644163.9569	620521.0896
RADIUS:		700.0000	
DELTA:		53°00'00.9305" LEFT	
DEGREE OF CURVATURE (ARC):		8°11'06.4009"	
LENGTH:		647.5203	
TANGENT:		349.0091	
CHORD:		624.6798	
MIDDLE ORDINATE:		73.5467	
EXTERNAL:		82.1811	
TANGENT DIRECTION:		N 47°34'21.8690" E	
RADIAL DIRECTION:		S 42°25'38.1310" E	
CHORD DIRECTION:		N 21°04'21.4037" E	
RADIAL DIRECTION:		N 84°34'20.9385" E	
TANGENT DIRECTION:		N 5°25'39.0615" W	

POINT	TYPE	STATION	NORTH	EAST
30005	POE	230+35.2270	644355.7531	620502.8665

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11/1/2010

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

I-95 & US 202 INTERCHANGE

CONTRACT	BRIDGE NO.	NA
T200510602	DESIGNED BY:	DAG
COUNTY	CHECKED BY:	BMD
NEW CASTLE		

HORIZONTAL AND VERTICAL CONTROL SHEET HV 6 OF 9

SHEET NO. 38 TOTAL SHTS. 482

RAMP 4

CIRCULAR CURVE NO 19

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (40000)	441+47.6728	644188.0775	622508.9035
PI (40100)	442+42.5672	644125.8403	622437.2692
CC (40101)		644853.4882	621930.7821
PCC (40001)	443+36.7334	644080.2760	622354.0296

RADIUS:	881.4735
DELTA:	12°17'20.1743" RIGHT
DEGREE OF CURVATURE (ARC):	6°29'59.9998"
LENGTH:	189.0606
TANGENT:	94.8944
CHORD:	188.6984
MIDDLE ORDINATE:	5.0639
EXTERNAL:	5.0932
TANGENT DIRECTION:	S 49°00'54.9849" W
RADIAL DIRECTION:	N 40°59'05.0151" W
CHORD DIRECTION:	S 55°09'35.0720" W
RADIAL DIRECTION:	N 28°41'44.8408" W
TANGENT DIRECTION:	S 61°18'15.1592" W

CIRCULAR CURVE NO 20

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PCC (40001)	443+36.7334	644080.2760	622354.0296
PI (40200)	446+36.4279	643936.3750	622091.1432
CC (40201)		644659.2157	622037.1247
PCC (40002)	448+99.3752	644039.6043	621809.7885

RADIUS:	660.0000
DELTA:	48°50'38.1648" RIGHT
DEGREE OF CURVATURE (ARC):	8°40'52.2434"
LENGTH:	562.6417
TANGENT:	299.6944
CHORD:	545.7587
MIDDLE ORDINATE:	59.0534
EXTERNAL:	64.8564
TANGENT DIRECTION:	S 61°18'15.1592" W
RADIAL DIRECTION:	N 28°41'44.8408" W
CHORD DIRECTION:	S 85°43'34.2416" W
RADIAL DIRECTION:	N 20°08'53.3240" E
TANGENT DIRECTION:	N 69°51'06.6760" W

CIRCULAR CURVE NO 21

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PCC (40002)	448+99.3752	644039.6043	621809.7885
PI (40300)	450+29.3526	644084.3749	621687.7650
CC (40301)		644978.4095	622154.2372
PT (40003)	451+57.8808	644158.8514	621581.2410

RADIUS:	1000.0000
DELTA:	14°48'40.6089" RIGHT
DEGREE OF CURVATURE (ARC):	5°43'46.4806"
LENGTH:	258.5056
TANGENT:	129.9774
CHORD:	257.7864
MIDDLE ORDINATE:	8.3415
EXTERNAL:	8.4117
TANGENT DIRECTION:	N 69°51'06.6760" W
RADIAL DIRECTION:	N 20°08'53.3240" E
CHORD DIRECTION:	N 62°26'46.3715" W
RADIAL DIRECTION:	N 34°57'33.9329" E
TANGENT DIRECTION:	N 55°02'26.0671" W

CIRCULAR CURVE NO 22

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (40004)	459+56.9691	644616.7260	620926.3418
PI (40400)	460+40.9782	644664.8630	620857.4914
CC (40401)		646456.7181	622212.7772
PCC (40005)	461+24.9090	644718.0107	620792.4310

RADIUS:	2245.1029
DELTA:	4°17'09.1819" RIGHT
DEGREE OF CURVATURE (ARC):	2°33'07.3208"
LENGTH:	167.9399
TANGENT:	84.0092
CHORD:	167.9008
MIDDLE ORDINATE:	1.5701
EXTERNAL:	1.5712
TANGENT DIRECTION:	N 55°02'26.0671" W
RADIAL DIRECTION:	N 34°57'33.9329" E
CHORD DIRECTION:	N 52°53'51.4762" W
RADIAL DIRECTION:	N 39°14'43.1148" E
TANGENT DIRECTION:	N 50°45'16.8852" W

CIRCULAR CURVE NO 23

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PCC (40005)	461+24.9090	644718.0107	620792.4310
PI (40500)	464+44.5550	644920.2321	620544.8829
CC (40501)		645337.5662	621298.5445
PRC (40006)	467+33.1088	645237.3607	620504.8450

RADIUS:	800.0000
DELTA:	43°33'32.7601" RIGHT
DEGREE OF CURVATURE (ARC):	7°09'43.1008"
LENGTH:	608.1998
TANGENT:	319.6460
CHORD:	593.6583
MIDDLE ORDINATE:	57.1053
EXTERNAL:	61.4950
TANGENT DIRECTION:	N 50°45'16.8852" W
RADIAL DIRECTION:	N 39°14'43.1148" E
CHORD DIRECTION:	N 28°58'30.5052" W
RADIAL DIRECTION:	N 82°48'15.8749" E
TANGENT DIRECTION:	N 7°11'44.1251" W

CIRCULAR CURVE NO 24

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PRC (40006)	467+33.1088	645237.3607	620504.8450
PI (40600)	468+88.5735	645391.6010	620485.3720
CC (40601)		643793.8809	609071.4494
PT (40007)	470+44.0193	645545.2598	620461.7453

RADIUS:	11524.1559
DELTA:	1°32'44.8228" LEFT
DEGREE OF CURVATURE (ARC):	0°29'49.8474"
LENGTH:	310.9105
TANGENT:	155.4647
CHORD:	310.9010
MIDDLE ORDINATE:	1.0485
EXTERNAL:	1.0486
TANGENT DIRECTION:	N 7°11'44.1251" W
RADIAL DIRECTION:	N 82°48'15.8749" E
CHORD DIRECTION:	N 7°58'06.5365" W
RADIAL DIRECTION:	N 81°51'31.0521" E
TANGENT DIRECTION:	N 8°44'28.9479" W

RAMP 5

CIRCULAR CURVE NO 25

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (50000)	20+77.6797	642170.9272	619066.5721
PI (50100)	21+75.8134	642245.0172	619130.9220
CC (50101)		640292.3792	621229.4575
PCC (50001)	22+73.8704	642314.5300	619200.1911

RADIUS:	2864.7890
DELTA:	3°55'25.7324" RIGHT
DEGREE OF CURVATURE (ARC):	1°59'59.9999"
LENGTH:	196.1907
TANGENT:	98.1337
CHORD:	196.1524
MIDDLE ORDINATE:	1.6793
EXTERNAL:	1.6803
TANGENT DIRECTION:	N 40°58'31.9947" E
RADIAL DIRECTION:	S 49°01'28.0053" E
CHORD DIRECTION:	N 42°56'14.8609" E
RADIAL DIRECTION:	S 45°06'02.2729" E
TANGENT DIRECTION:	N 44°53'57.7271" E

CIRCULAR CURVE NO 26

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PCC (50001)	22+73.8704	642314.5300	619200.1911
PI (50200)	25+72.3411	642525.9509	619410.8707
CC (50201)		641303.4546	620214.8243
PT (50002)	28+62.3906	642635.6307	619688.4586

RADIUS:	1432.3945
DELTA:	22°32'26.8980" RIGHT
DEGREE OF CURVATURE (ARC):	3°59'59.9999"
LENGTH:	588.5201
TANGENT:	298.4707
CHORD:	584.3894
MIDDLE ORDINATE:	30.1191
EXTERNAL:	30.7660
TANGENT DIRECTION:	N 44°53'57.7271" E
RADIAL DIRECTION:	S 45°06'02.2729" E
CHORD DIRECTION:	N 56°40'11.1761" E
RADIAL DIRECTION:	S 21°33'35.3749" E
TANGENT DIRECTION:	N 68°26'24.6251" E

CIRCULAR CURVE NO 27

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (50003)	34+73.8463	642860.3239	620257.1335
PI (50300)	38+96.7591	643015.7327	620650.4570
CC (50301)		645228.6370	619321.3724
PCC (50004)	43+12.0217	643289.9365	620972.4315

RADIUS:	2546.4791
DELTA:	18°51'32.2092" LEFT
DEGREE OF CURVATURE (ARC):	2°15'00.0000"
LENGTH:	838.1754
TANGENT:	422.9128
CHORD:	834.3969
MIDDLE ORDINATE:	34.4080
EXTERNAL:	34.8793
TANGENT DIRECTION:	N 68°26'24.6251" E
RADIAL DIRECTION:	S 21°33'35.3749" E
CHORD DIRECTION:	N 59°00'38.5205" E
RADIAL DIRECTION:	S 40°25'07.5841" E
TANGENT DIRECTION:	N 49°34'52.4159" E

CIRCULAR CURVE NO 28

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PCC (50004)	43+12.0217	643289.9365	620972.4315
PI (50400)	44+75.4079	643395.8710	621096.8216
CC (50401)		644259.2868	620146.9019
PCC (50005)	46+37.0179	643529.7804	621190.4341

RADIUS:	1273.2396
DELTA:	14°37'29.3718" LEFT
DEGREE OF CURVATURE (ARC):	4°29'59.9993"
LENGTH:	324.9961
TANGENT:	163.3861
CHORD:	324.1146
MIDDLE ORDINATE:	10.3554
EXTERNAL:	10.4403
TANGENT DIRECTION:	N 49°34'52.4159" E
RADIAL DIRECTION:	S 40°25'07.5841" E
CHORD DIRECTION:	N 42°16'07.7301" E
RADIAL DIRECTION:	S 55°02'36.9558" E
TANGENT DIRECTION:	N 34°57'23.0442" E

CIRCULAR CURVE NO 29

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PCC (50005)	46+37.0179	643529.7804	621190.4341
PI (50500)	53+20.4798	644089.9378	621582.0257
CC (50501)		643935.8973	620609.4987
PT (50006)	57+24.6093	644501.6627	621036.4958

RADIUS:	708.8138
DELTA:	87°54'49.1116" LEFT
DEGREE OF CURVATURE (ARC):	8°04'59.9998"
LENGTH:	1087.5915
TANGENT:	683.4619
CHORD:	983.9981
MIDDLE ORDINATE:	198.5649
EXTERNAL:	275.8370
TANGENT DIRECTION:	N 34°57'23.0442" E
RADIAL DIRECTION:	S 55°02'36.9558" E
CHORD DIRECTION:	N 9°00'01.5116" W
RADIAL DIRECTION:	N 37°02'33.9326" E
TANGENT DIRECTION:	N 52°57'26.0674" W

CIRCULAR CURVE NO 30

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (50007)	59+63.4644	644645.5516	620845.8450
PI (50600)	60+07.0839	644671.8285	620811.0285
CC (50601)		646456.7181	622212.7772
PT (50008)	60+50.6927	644699.4240	620777.2476

RADIUS:	2269.1029
DELTA:	2°12'09.1822" RIGHT
DEGREE OF CURVATURE (ARC):	2°31'30.1478"
LENGTH:	87.2283
TANGENT:	43.6195
CHORD:	87.2229
MIDDLE ORDINATE:	0.4191
EXTERNAL:	0.4192
TANGENT DIRECTION:	N 52°57'26.0674" W
RADIAL DIRECTION:	N 37°02'33.9326" E
CHORD DIRECTION:	N 51°51'21.4763" W
RADIAL DIRECTION:	N 39°14'43.1148" E
TANGENT DIRECTION:	N 50°45'16.8852" W

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11/1/2010

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

I-95 & US 202 INTERCHANGE

CONTRACT	BRIDGE NO.	NA
T200510602	DESIGNED BY:	DAG
COUNTY		
NEW CASTLE	CHECKED BY:	BMD

HORIZONTAL AND VERTICAL CONTROL SHEET
HV 7 OF 9

SHEET NO. 39
TOTAL SHTS. 482

RAMP 6

CIRCULAR CURVE NO 31

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (60000)	180+00.0000	643481.6801	620609.9533
PI (60100)	181+56.1479	643326.5585	620627.8258
CC (60101)		643426.7397	620133.1078
PCC (60001)	183+01.9301	643190.6111	620551.0113

RADIUS: 480.0000
DELTA: 36°02'24.9015" RIGHT
DEGREE OF CURVATURE (ARC): 11°56'11.8346"
LENGTH: 301.9301
TANGENT: 156.1479
CHORD: 296.9770
MIDDLE ORDINATE: 23.5450
EXTERNAL: 24.7595
TANGENT DIRECTION: S 6°34'20.7697" E
RADIAL DIRECTION: S 83°25'39.2303" W
CHORD DIRECTION: S 11°26'51.6811" W
RADIAL DIRECTION: N 60°31'55.8682" W
TANGENT DIRECTION: S 29°28'04.1318" W

CIRCULAR CURVE NO 32

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PCC (60001)	183+01.9301	643190.6111	620551.0113
PI (60200)	184+49.9047	643061.7797	620478.2175
CC (60201)		643485.7718	620028.6320
PCC (60002)	185+92.0889	642981.5684	620353.8686

RADIUS: 600.0000
DELTA: 27°42'29.2630" RIGHT
DEGREE OF CURVATURE (ARC): 9°32'57.4677"
LENGTH: 290.1588
TANGENT: 147.9746
CHORD: 287.3397
MIDDLE ORDINATE: 17.4547
EXTERNAL: 17.9777
TANGENT DIRECTION: S 29°28'04.1318" W
RADIAL DIRECTION: N 60°31'55.8682" W
CHORD DIRECTION: S 43°19'18.7633" W
RADIAL DIRECTION: N 32°49'26.6052" W
TANGENT DIRECTION: S 57°10'33.3948" W

CIRCULAR CURVE NO 33

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PCC (60002)	185+92.0889	642981.5684	620353.8686
PI (60300)	186+61.1884	642944.1122	620295.8016
CC (60301)		643233.6701	620191.2503
PCC (60003)	187+27.9189	642935.8319	620227.2001

RADIUS: 300.0000
DELTA: 25°56'29.8288" RIGHT
DEGREE OF CURVATURE (ARC): 19°05'54.9354"
LENGTH: 135.8300
TANGENT: 69.0995
CHORD: 134.6728
MIDDLE ORDINATE: 7.6546
EXTERNAL: 7.8551
TANGENT DIRECTION: S 57°10'33.3948" W
RADIAL DIRECTION: N 32°49'26.6052" W
CHORD DIRECTION: S 70°08'48.3092" W
RADIAL DIRECTION: N 6°52'56.7764" W
TANGENT DIRECTION: S 83°07'03.2236" W

CIRCULAR CURVE NO 34

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PCC (60003)	187+27.9189	642935.8319	620227.2001
PI (60400)	189+77.7999	642905.8880	619979.1197
CC (60401)		643084.7510	620209.2252
PCC (60004)	190+36.9689	643138.9116	620069.3444

RADIUS: 150.0000
DELTA: 118°02'54.2558" RIGHT
DEGREE OF CURVATURE (ARC): 38°11'49.8708"
LENGTH: 309.0500
TANGENT: 249.8810
CHORD: 257.2154
MIDDLE ORDINATE: 72.7986
EXTERNAL: 141.4455
TANGENT DIRECTION: S 83°07'03.2236" W
RADIAL DIRECTION: N 6°52'56.7764" W
CHORD DIRECTION: N 37°51'29.6485" W
RADIAL DIRECTION: S 68°50'02.5206" E
TANGENT DIRECTION: N 21°09'57.4794" E

CIRCULAR CURVE NO 35

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PCC (60004)	190+36.9689	643138.9116	620069.3444
PI (60500)	190+97.4489	643195.3115	620091.1820
CC (60501)		643030.5904	620349.1060
PCC (60005)	191+56.3289	643238.8449	620133.1660

RADIUS: 300.0000
DELTA: 22°47'45.8909" RIGHT
DEGREE OF CURVATURE (ARC): 19°05'54.9354"
LENGTH: 119.3600
TANGENT: 60.4799
CHORD: 118.5743
MIDDLE ORDINATE: 5.9166
EXTERNAL: 6.0357
TANGENT DIRECTION: N 21°09'57.4794" E
RADIAL DIRECTION: S 68°50'02.5206" E
CHORD DIRECTION: N 32°33'50.4248" E
RADIAL DIRECTION: S 46°02'16.6297" E
TANGENT DIRECTION: N 43°57'43.3703" E

CIRCULAR CURVE NO 36

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PCC (60005)	191+56.3289	643238.8449	620133.1660
PI (60600)	192+26.6483	643289.4607	620181.9804
CC (60601)		642822.3359	620565.0459
PCC (60006)	192+96.3289	643327.4180	620241.1755

RADIUS: 600.0000
DELTA: 13°22'08.4548" RIGHT
DEGREE OF CURVATURE (ARC): 9°32'57.4677"
LENGTH: 140.0000
TANGENT: 70.3193
CHORD: 139.6826
MIDDLE ORDINATE: 4.0787
EXTERNAL: 4.1066
TANGENT DIRECTION: N 43°57'43.3703" E
RADIAL DIRECTION: S 46°02'16.6297" E
CHORD DIRECTION: N 50°38'47.5977" E
RADIAL DIRECTION: S 32°40'08.1749" E
TANGENT DIRECTION: N 57°19'51.8251" E

CIRCULAR CURVE NO 37

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PCC (60006)	192+96.3289	643327.4180	620241.1755
PI (60700)	193+66.4546	643365.2707	620300.2075
CC (60701)		642523.5545	620756.6314
PT (60007)	194+36.3289	643394.0938	620364.1359

RADIUS: 954.9300
DELTA: 8°23'59.9892" RIGHT
DEGREE OF CURVATURE (ARC): 5°59'59.9923"
LENGTH: 140.0000
TANGENT: 70.1257
CHORD: 139.8747
MIDDLE ORDINATE: 2.5645
EXTERNAL: 2.5714
TANGENT DIRECTION: N 57°19'51.8251" E
RADIAL DIRECTION: S 32°40'08.1749" E
CHORD DIRECTION: N 61°31'51.8197" E
RADIAL DIRECTION: S 24°16'08.1858" E
TANGENT DIRECTION: N 65°43'51.8142" E

RAMP 7

CIRCULAR CURVE NO 38

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (70001)	152+22.6477	644002.9178	621733.4422
PI (70100)	153+89.7781	644004.9827	621566.3246
CC (70101)		644711.4787	621742.1975
PT (70002)	155+50.9094	644081.5071	621417.7426

RADIUS: 708.6150
DELTA: 26°32'30.9634" RIGHT
DEGREE OF CURVATURE (ARC): 8°05'08.1626"
LENGTH: 328.2617
TANGENT: 167.1304
CHORD: 325.3345
MIDDLE ORDINATE: 18.9233
EXTERNAL: 19.4425
TANGENT DIRECTION: N 89°17'31.4345" W
RADIAL DIRECTION: N 0°42'28.5655" E
CHORD DIRECTION: N 76°01'15.9528" W
RADIAL DIRECTION: N 27°14'59.5289" E
TANGENT DIRECTION: N 62°45'00.4711" W

CIRCULAR CURVE NO 39

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC (70003)	158+83.0706	644233.5943	621122.4453
PI (70200)	160+33.2854	644302.3734	620988.9016
CC (70201)		643693.5158	620844.2881
PCC (70004)	161+77.5925	644300.9900	620838.6932

RADIUS: 607.5000
DELTA: 27°46'39.1868" LEFT
DEGREE OF CURVATURE (ARC): 9°25'53.0545"
LENGTH: 294.5219
TANGENT: 150.2148
CHORD: 291.6460
MIDDLE ORDINATE: 17.7612
EXTERNAL: 18.2961
TANGENT DIRECTION: N 62°45'00.4711" W
RADIAL DIRECTION: N 27°14'59.5289" E
CHORD DIRECTION: N 76°38'20.0645" W
RADIAL DIRECTION: N 0°31'39.6578" W
TANGENT DIRECTION: S 89°28'20.3422" W

CIRCULAR CURVE NO 40

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PCC (70004)	161+77.5925	644300.9900	620838.6932
PI (70300)	162+41.3952	644300.4024	620774.8932
CC (70301)		643957.5046	620841.8568
PT (70005)	163+03.7601	644276.9436	620715.5596

RADIUS: 343.5000
DELTA: 21°02'41.1119" LEFT
DEGREE OF CURVATURE (ARC): 16°40'47.9785"
LENGTH: 126.1676
TANGENT: 63.8027
CHORD: 125.4596
MIDDLE ORDINATE: 5.7764
EXTERNAL: 5.8752
TANGENT DIRECTION: S 89°28'20.3422" W
RADIAL DIRECTION: N 0°31'39.6578" W
CHORD DIRECTION: S 78°56'59.7862" W
RADIAL DIRECTION: N 21°34'20.7697" W
TANGENT DIRECTION: S 68°25'39.2303" W

POINT	TYPE	STATION	NORTH	EAST
70000	POB	149+27.0973	643999.2661	622028.9700
70006	POE	164+60.0222	644219.4896	620570.2432

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RAMP 8

CIRCULAR CURVE NO 41

	STATION	NORTHING	EASTING
ELEMENT:	CIRCULAR		
PC (80000)	0+00.0000	643727.4860	620660.1484
PI (80100)	0+74.7647	643801.7594	620651.5909
CC (80101)		643819.0534	621454.8907
PCC (80001)	1+49.0964	643876.3322	620656.9439

RADIUS:	800.0000
DELTA:	10°40'41.6753" RIGHT
DEGREE OF CURVATURE (ARC):	7°09'43.1008"
LENGTH:	149.0964
TANGENT:	74.7647
CHORD:	148.8807
MIDDLE ORDINATE:	3.4709
EXTERNAL:	3.4860
TANGENT DIRECTION:	N 6°34'20.7697" W
RADIAL DIRECTION:	N 83°25'39.2303" E
CHORD DIRECTION:	N 1°13'59.9320" W
RADIAL DIRECTION:	S 85°53'39.0944" E
TANGENT DIRECTION:	N 4°06'20.9056" E

CIRCULAR CURVE NO 42

	STATION	NORTHING	EASTING
ELEMENT:	CIRCULAR		
PCC (80001)	1+49.0964	643876.3322	620656.9439
PI (80200)	2+75.7781	644002.6888	620666.0141
CC (80201)		643843.1105	621119.7531
PCC (80002)	3+96.4319	644106.9056	620738.0357

RADIUS:	464.0000
DELTA:	30°32'29.5983" RIGHT
DEGREE OF CURVATURE (ARC):	12°20'53.6220"
LENGTH:	247.3355
TANGENT:	126.6817
CHORD:	244.4176
MIDDLE ORDINATE:	16.3830
EXTERNAL:	16.9826
TANGENT DIRECTION:	N 4°06'20.9056" E
RADIAL DIRECTION:	S 85°53'39.0944" E
CHORD DIRECTION:	N 19°22'35.7048" E
RADIAL DIRECTION:	S 55°21'09.4961" E
TANGENT DIRECTION:	N 34°38'50.5039" E

CIRCULAR CURVE NO 43

	STATION	NORTHING	EASTING
ELEMENT:	CIRCULAR		
PCC (80002)	3+96.4319	644106.9056	620783.0357
PI (80300)			XXXXXX.XXXX
CC (80301)		643973.8710	620930.5397
PCC (80003)	12+10.6400	643784.5388	621068.0508

RADIUS:	234.0000
DELTA:	199°21'42.8774" RIGHT
DEGREE OF CURVATURE (ARC):	24°29'07.3531"
LENGTH:	814.2081
TANGENT:	-1.0000
CHORD:	461.3354
MIDDLE ORDINATE:	-1.0000
EXTERNAL:	-1.0000
TANGENT DIRECTION:	N 34°38'50.5039" E
RADIAL DIRECTION:	S 55°21'09.4961" E
CHORD DIRECTION:	S 45°40'18.0574" E
RADIAL DIRECTION:	N 35°59'26.6187" W
TANGENT DIRECTION:	S 54°00'33.3813" W

CIRCULAR CURVE NO 44

	STATION	NORTHING	EASTING
ELEMENT:	CIRCULAR		
PCC (80003)	12+10.6400	643784.5388	621068.0508
PI (80400)	12+85.5796	643740.5002	621007.4163
CC (80401)		644159.9668	620795.3792
PT (80004)	13+59.2361	643717.7887	620936.0011

RADIUS:	464.0000
DELTA:	18°20'56.3244" RIGHT
DEGREE OF CURVATURE (ARC):	12°20'53.6220"
LENGTH:	148.5960
TANGENT:	74.9396
CHORD:	147.9619
MIDDLE ORDINATE:	5.9358
EXTERNAL:	6.0127
TANGENT DIRECTION:	S 54°00'33.3813" W
RADIAL DIRECTION:	N 35°59'26.6187" W
CHORD DIRECTION:	S 63°11'01.5435" W
RADIAL DIRECTION:	N 17°38'30.2943" W
TANGENT DIRECTION:	S 72°21'29.7057" W

POINT	TYPE	STATION	NORTH	EAST
80005	POE	16+18.7958	643639.1254	620688.6484

US 202

CIRCULAR CURVE NO 45

	STATION	NORTHING	EASTING
ELEMENT:	CIRCULAR		
PC (90003)	1020+83.5890	644361.6291	620553.8664
PI (90100)	1021+46.0600	644423.6896	620546.7160
CC (90101)		643487.2249	612964.6359
PT (90004)	1022+08.5282	644485.6248	620538.5516

RADIUS:	7639.4373
DELTA:	0°56'13.3594" LEFT
DEGREE OF CURVATURE (ARC):	0°45'00.0000"
LENGTH:	124.9392
TANGENT:	62.4710
CHORD:	124.9378
MIDDLE ORDINATE:	0.2554
EXTERNAL:	0.2554
TANGENT DIRECTION:	N 6°34'20.7697" W
RADIAL DIRECTION:	N 83°25'39.2303" E
CHORD DIRECTION:	N 7°02'27.4494" W
RADIAL DIRECTION:	N 82°29'25.8709" E
TANGENT DIRECTION:	N 7°30'34.1291" W

POINT	TYPE	STATION	NORTH	EAST
90000	POB	1212+00.0000	642185.2142	620796.2313
90001	POE	1218+87.0000	642152.7943	620717.6865
90002	POB	1005+80.7356	642868.6526	620725.8818
90005	POE	1030+21.3555	645291.4807	620432.3230

WASTE AREA

CIRCULAR CURVE NO 46

	STATION	NORTHING	EASTING
ELEMENT:	CIRCULAR		
PC (130001)	5+23.9887	643594.6155	619816.3408
PI (130100)	5+77.5584	643645.7177	619832.4118
CC (130101)		643504.6148	620102.5224
PCC (130002)	6+30.0107	643688.0996	619865.1759

RADIUS:	300.0000
DELTA:	20°14'55.3389" RIGHT
DEGREE OF CURVATURE (ARC):	19°05'54.9354"
LENGTH:	106.0220
TANGENT:	53.5697
CHORD:	105.4711
MIDDLE ORDINATE:	4.6714
EXTERNAL:	4.7453
TANGENT DIRECTION:	N 17°27'27.8193" E
RADIAL DIRECTION:	S 72°32'32.1807" E
CHORD DIRECTION:	N 27°34'55.4887" E
RADIAL DIRECTION:	S 52°17'36.8418" E
TANGENT DIRECTION:	N 37°42'23.1582" E

CIRCULAR CURVE NO 47

	STATION	NORTHING	EASTING
ELEMENT:	CIRCULAR		
PCC (130002)	6+30.0107	643688.0996	619865.1759
PI (130200)	8+13.8983	643833.5832	619977.6445
CC (130201)		643023.8848	620724.3701
PT (130003)	9+94.3304	643933.9309	620131.7387

RADIUS:	1086.000
DELTA:	19°13'15.5193" RIGHT
DEGREE OF CURVATURE (ARC):	5°16'33.0761"
LENGTH:	364.3197
TANGENT:	183.8877
CHORD:	362.6138
MIDDLE ORDINATE:	15.2415
EXTERNAL:	15.4584
TANGENT DIRECTION:	N 37°42'23.1582" E
RADIAL DIRECTION:	S 52°17'36.8418" E
CHORD DIRECTION:	N 47°19'00.9179" E
RADIAL DIRECTION:	S 33°04'21.3225" E
TANGENT DIRECTION:	N 56°55'38.6775" E

POINT	TYPE	STATION	NORTH	EAST
130000	POB	0+00.0000	643094.7624	619659.1431
70006	POE	15+17.6180	644219.4896	620570.2432

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11/1/2010

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

I-95 & US 202 INTERCHANGE

CONTRACT	BRIDGE NO.	NA
T200510602	DESIGNED BY:	DAG
COUNTY		
NEW CASTLE	CHECKED BY:	BMD

HORIZONTAL AND VERTICAL CONTROL SHEET HV 9 OF 9

SHEET NO. 41

TOTAL SHTS. 482

BARRIER SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	SAFETY BARRIER, PERMANENT, SINGLE FACE	152.69

SOIL BORING SCHEDULE				
NO.	STATION	OFFSET	GRND EL.	ROCK ELEV.
SS1-1	482+55	66.00	UNKNOWN	UNKNOWN
SS1-2	482+57	53.00	UNKNOWN	UNKNOWN
SS2-1	503+95	65.00	96.54	<70.5
SS2-2	503+95	50.00	93.98	<68.1

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
DI150°	504+15.5	*	34"X24"	2	*	**

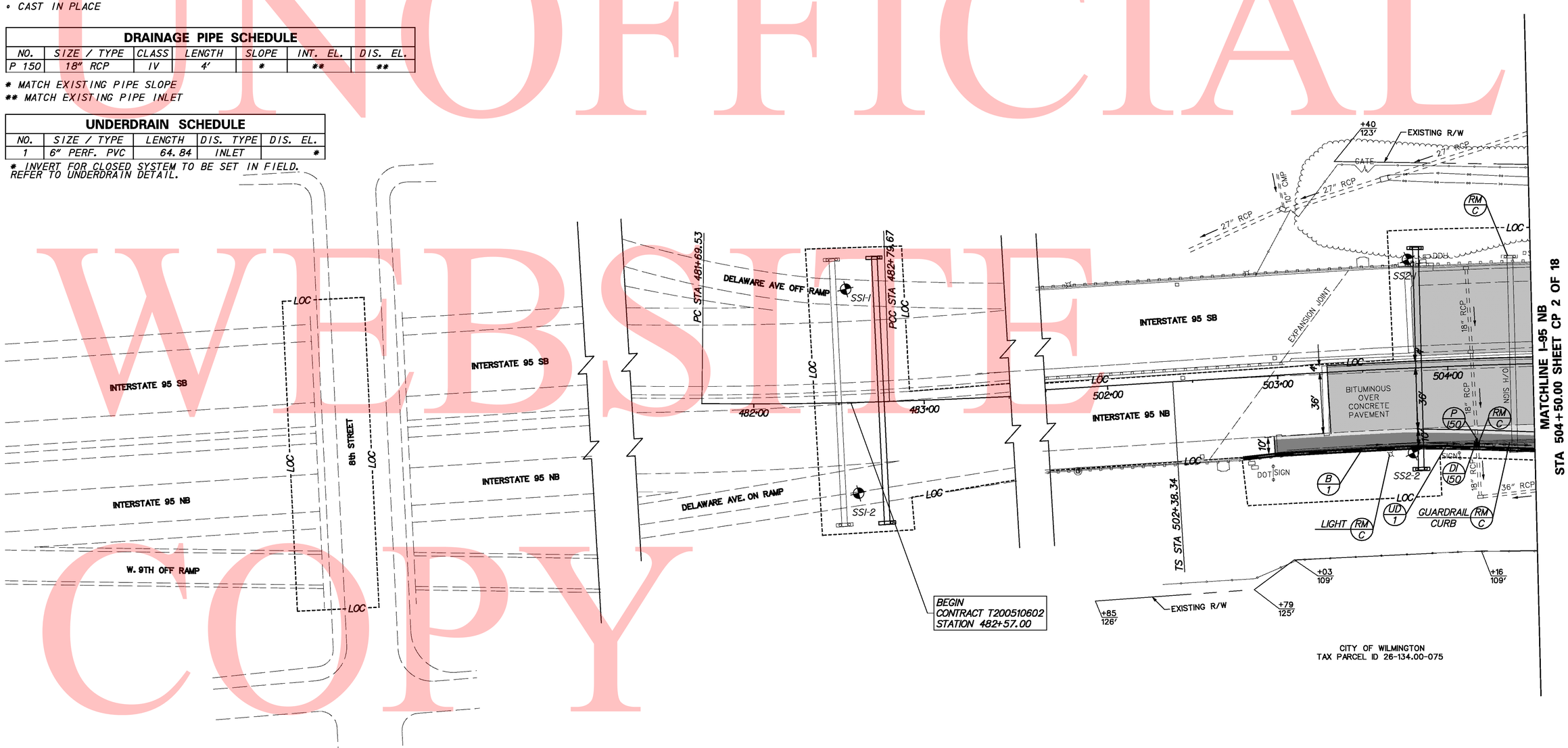
* MATCH PROPOSED EDGE OF BARRIER
** MATCH FLOWLINE OF PROPOSED BARRIER AND GUTTER
° CAST IN PLACE

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
P 150	18" RCP	IV	4'	*	**	**

* MATCH EXISTING PIPE SLOPE
** MATCH EXISTING PIPE INLET

UNDERDRAIN SCHEDULE				
NO.	SIZE / TYPE	LENGTH	DIS. TYPE	DIS. EL.
1	6" PERF. PVC	64.84	INLET	*

* INVERT FOR CLOSED SYSTEM TO BE SET IN FIELD. REFER TO UNDERDRAIN DETAIL.



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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	CONSTRUCTION PLAN CP 1 OF 18	SHEET NO. 42
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		

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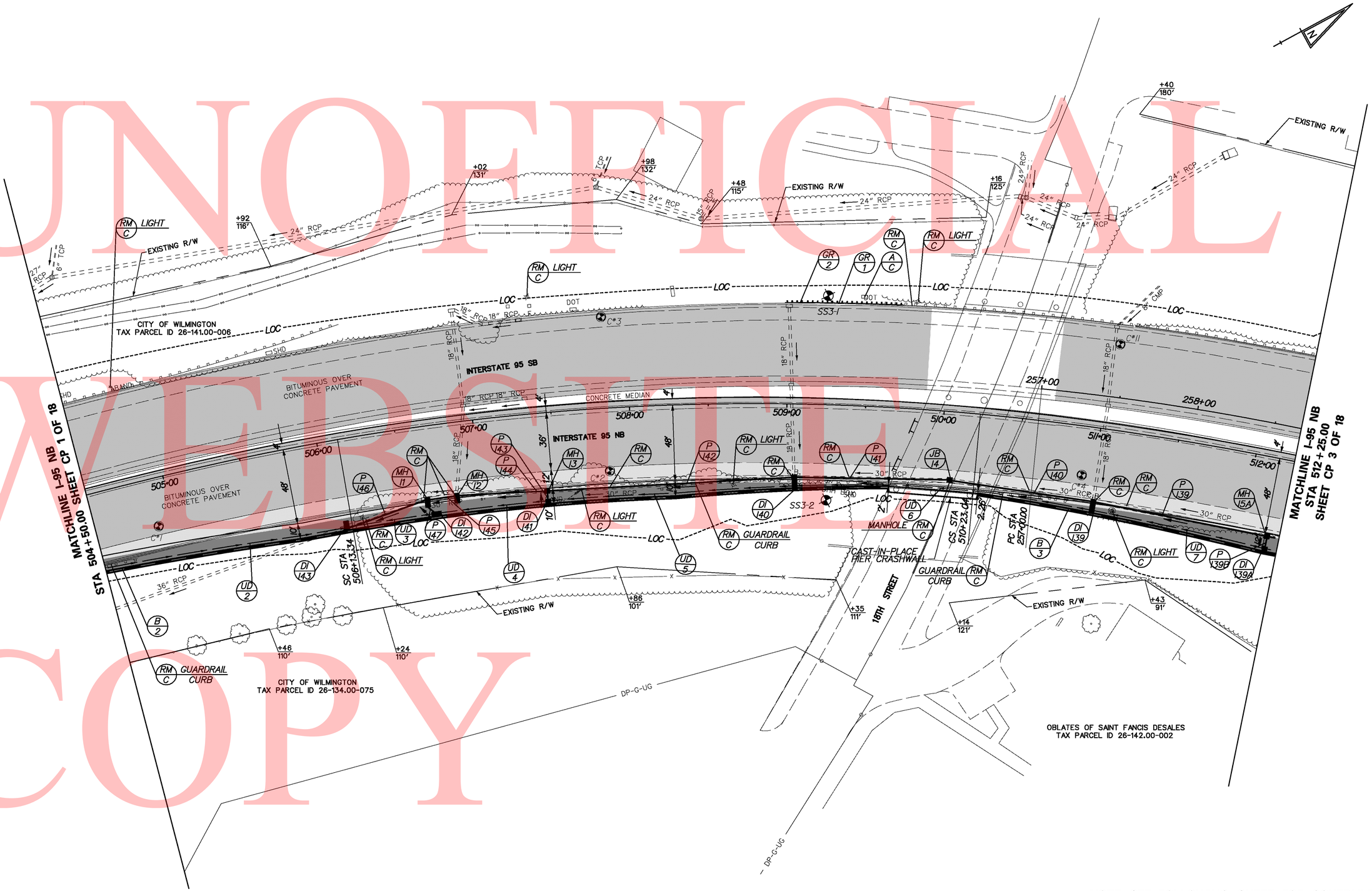

NOTE: SEE FOLLOWING SHEET FOR SCHEDULES

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. BR 1-760	CONSTRUCTION PLAN CP 2 OF 18	SHEET NO. 43
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		

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DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
D1139A	512+16.9	*	34"X24"	2	**	94.71
D1139°	511+03.1	*	SPECIAL	2	**	90.04
D1140°	509+05.7	*	SPECIAL	2	**	87.28
D1141	507+43.3	*	34"X24"	2	**	86.59
D1142	506+72.4	*	72" x 24"	2	**	86.95
D1143°	506+09.6	*	66"X66"	2	**	***

* MATCH PROPOSED EDGE OF BARRIER
** MATCH FLOWLINE OF PROPOSED BARRIER AND GUTTER
*** MATCH EXISTING PIPE INVERT
° CAST IN PLACE

UNDERDRAIN SCHEDULE

NO.	SIZE / TYPE	LENGTH	DIS. TYPE	DIS. EL.
2	6" PERF. PVC	189.65	INLET	*
3	6" PERF. PVC	58.47	INLET	*
4	6" PERF. PVC	71.25	INLET	*
5	6" PERF. PVC	157.15	INLET	*
6	6" PERF. PVC	190.49	INLET	*
7	6" PERF. PVC	112.68	INLET	*

* INVERT FOR CLOSED SYSTEM TO BE SET IN FIELD.
REFER TO UNDERDRAIN DETAIL.

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
P 139B	18" RCP	IV	8'	0.013	94.71	94.61
P 139	30" RCP	IV	111'	0.029	93.41	90.24
P 140	30" RCP	V	92'	0.013	90.04	88.82
P 141	30" RCP	V	99'	0.012	88.62	87.48
P 142	29"X45" RCP	IV	158'	0.005	87.28	86.49
P 143	14"X23" RCP	IV	7'	0.014	86.59	86.49
P 144	29"X45" RCP	IV	56'	0.006	86.49	86.15
P 145	29"X45" RCP	IV	20'	0.005	85.95	85.85
P 146	29"X45" RCP	IV	54'	*	85.65	**
P 147	14"X23" RCP	IV	7'	0.014	86.95	86.85

ROADWAY CORE SCHEDULE

NO.	STATION	OFFSET	DESCRIPTION
C#1	504+89.98	30.39	18-1/2" ASPHALT
C#2	507+85.14	39.98	19-1/4" ASPHALT
C#3	507+85.40	-58.03	7-3/4" ASPHALT
C#4	510+92.00	31.10	21" ASPHALT
C#11	511+04.81	-54.55	8-1/2" ASPHALT

SOIL BORING SCHEDULE

NO.	STATION	OFFSET	GRND EL.	ROCK ELEV.
SS3-1	509+32.00	69.25	96.77	83.1
SS3-2	509+32.00	60.63	117.04	108.9

JUNCTION BOX SCHEDULE

NO.	TYPE	INV. EL.	STATION	OFFSET
JB 14	48"x30"	88.62	510+07.0	43.6' RT

\+ TO BE SET IN FIELD BY ENGINEER.
++ MATCH EXISTING PIPE INVERT.

MANHOLE SCHEDULE

NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
MH 11	506+64.6	*	SPECIAL	*	85.65
MH 12°	506+84.1	*	SPECIAL	*	85.95
MH 13°	507+43.3	*	ROUND	*	86.49
MH 15A	512+16.9	*	ROUND	*	93.41

\+ TO BE SET IN FIELD BY ENGINEER
° CAST IN PLACE

GUARDRAIL SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
1	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 2	509+10.19	-64.55	62.5
2	END ANCHORAGE	508+98.19	-64.39	12.50

BARRIER SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
2	SAFETY BARRIER, PERMANENT, SINGLE FACE	500.32
3	SAFETY BARRIER, PERMANENT, SINGLE FACE	193.10

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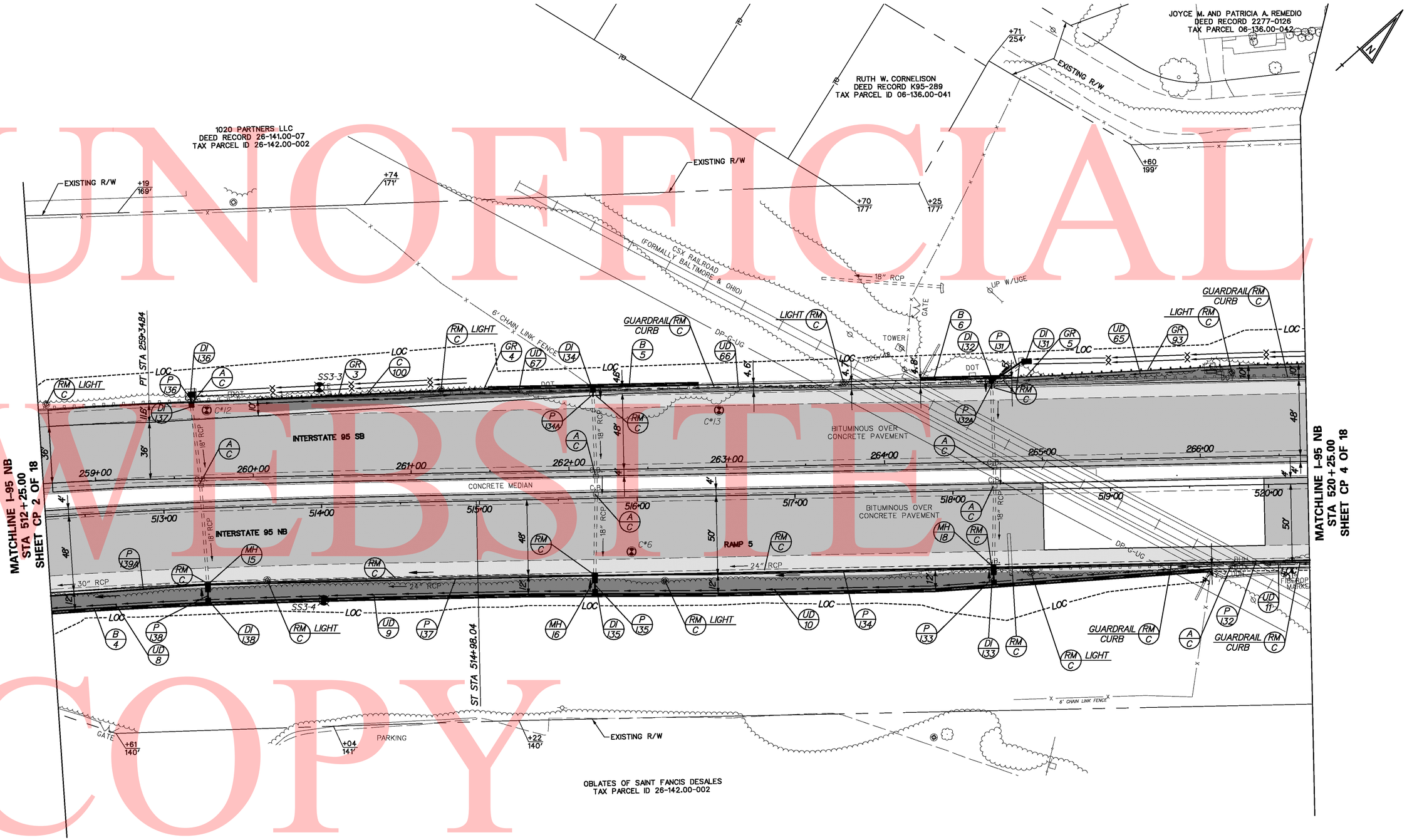

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NOTE: SEE FOLLOWING SHEET FOR SCHEDULES

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. BR 1-761	CONSTRUCTION PLAN CP 3 OF 18	SHEET NO. 45
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		

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DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
DI131	264+89.8	63.1' LT	72"x48"	2	116.47	113.37
DI132°	264+68.7	*	48"x30"	2	**	113.26
DI133	518+24.8	*	34"X24"	2	**	111.92
DI134	262+16.2	*	34"X24"	2	**	105.75
DI135	515+72.1	*	34"X24"	2	**	104.54
DI136	259+61.5	53.2' LT	34"X24"	2	103.37	100.62
DI137°	259+61.8	+	34"X24"	2	++	100.38
DI138	513+27.5	*	34"X24"	2	**	97.88

* MATCH PROPOSED EDGE OF BARRIER
** MATCH FLOWLINE OF PROPOSED BARRIER AND GUTTER
\+ MATCH PROPOSED CURBLINE
++ MATCH FLOWLINE OF PROPOSED CURB AND GUTTER
° CAST IN PLACE

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
P 131	18" RCP	IV	22'	0.005	113.37	113.26
P 132	18" RCP	IV	248'	0.039	109.76	119.36
P 132A	18" RCP	IV	5'	*	113.26	**
P 133	18" RCP	IV	7'	0.309	111.92	109.76
P 134	24" RCP	IV	253'	0.025	109.26	103.02
P 134A	18" RCP	IV	5'	0.04	105.70	105.50
P 135	18" RCP	IV	7'	0.145	104.54	103.52
P 136	18" RCP	IV	12'	0.053	101.01	100.38
P 137	24" RCP	IV	245'	0.023	102.82	97.28
P 138	18" RCP	IV	7'	0.014	97.88	97.78
P 139A	30" RCP	IV	110'	0.029	96.78	93.61

* TO BE SET IN FIELD BY ENGINEER
** MATCH EXISTING PIPE INVERT

MANHOLE SCHEDULE

NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
MH15°	513+26.0	*	66" x 30"	*	96.78
MH16°	515+72.2	*	66" x 30"	*	102.82
MH18°	518+24.8	*	66" x 30"	*	109.26

* TO BE SET IN FIELD BY ENGINEER
** MATCH EXISTING PIPE INVERT
° CAST IN PLACE

BARRIER SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
4	SAFETY BARRIER, PERMANENT, SINGLE FACE	735.57
5	SAFETY BARRIER, PERMANENT, SINGLE FACE	133.07
6	SAFETY BARRIER, PERMANENT, SINGLE FACE	237.21

GUARDRAIL SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
3	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1	260+01.03	-49.38	137.5
4	GUARDRAIL TO BARRIER CONNECTION (EXIT TYPE)	261+38.50	-52.23	14.23
5	GR TO BARRIER CONNECTION APPROACH TYPE 1	264+81.66	-53	27.6
93	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1	265+04.46	-53.66	1825

UNDERDRAIN SCHEDULE

NO.	SIZE / TYPE	LENGTH	DIS. TYPE	DIS. EL.
8	6" PERF. PVC	106.91	INLET	*
9	6" PERF. PVC	245.21	INLET	*
10	6" PERF. PVC	253.05	INLET	*
11	6" PERF. PVC	248.97	INLET	*
65	6" PERF. PVC	300.00	INLET	*
66	6" PERF. PVC	252.59	INLET	*
67	6" PERF. PVC	212.74	INLET	*

* INVERT FOR CLOSED SYSTEM TO BE SET IN FIELD.
REFER TO UNDERDRAIN DETAIL.

ROADWAY CORE SCHEDULE

NO.	STATION	OFFSET	DESCRIPTION
C#6	515+95.71	34.26	7-1/4" ASPHALT
C#12	259+71.34	-42.98	9-1/2" ASPHALT
C#13	262+95.83	-36.27	3-1/4" ASPHALT OVER 11" PCC

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
100	PORTLAND CEMENT CONCRETE CURB, TYPE 3	146.44

SOIL BORING SCHEDULE

NO.	STATION	OFFSET	GRND EL.	ROCK ELEV.
SS3-3	514+00	110.00	107.55	87.2
SS3-4	514+00	25.00	106.45	92.7

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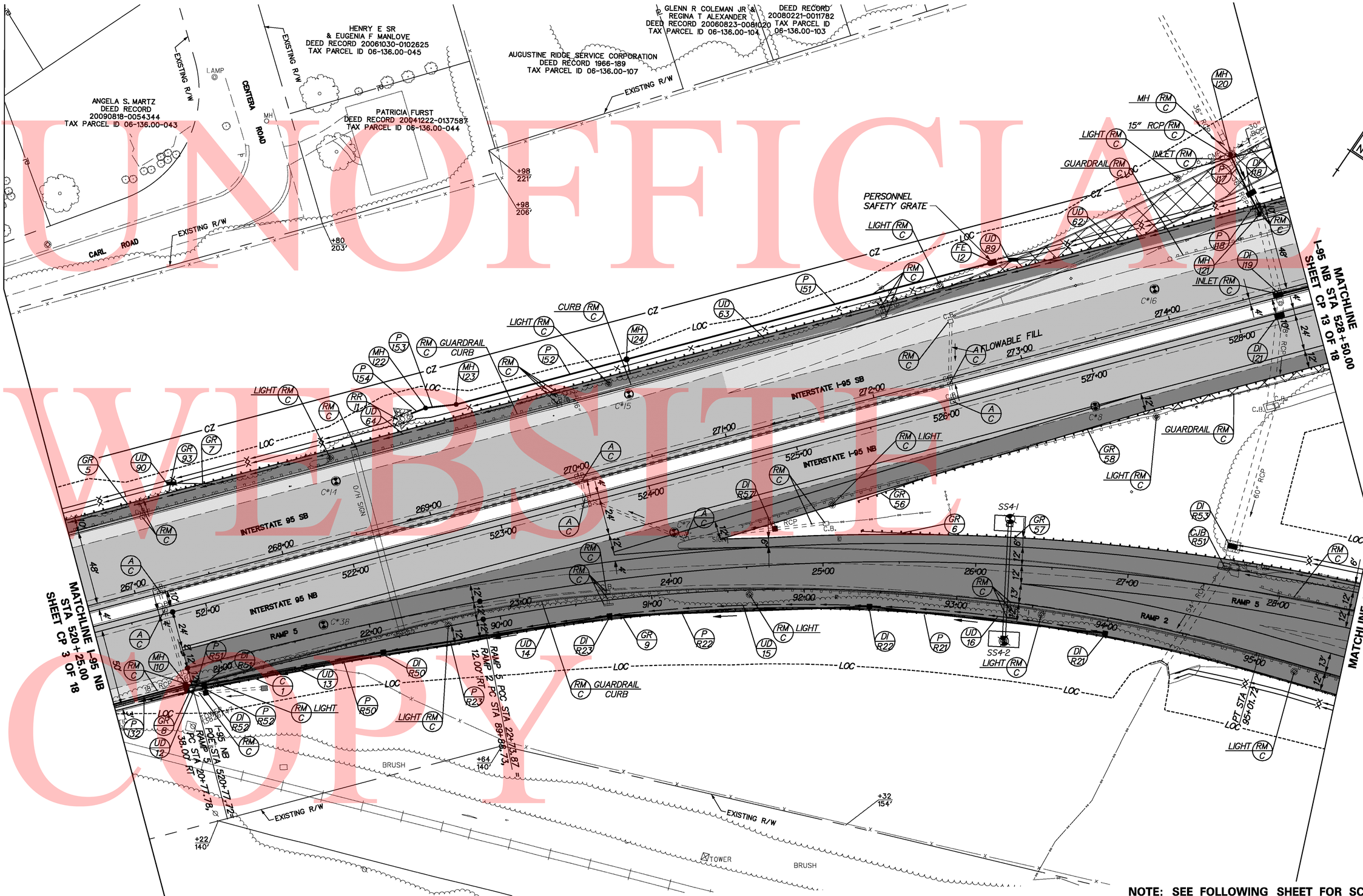

NOTE: SEE FOLLOWING SHEET FOR SCHEDULES

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	CONSTRUCTION PLAN CP 4 OF 18	SHEET NO. 47
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
DIR21	94+00.00	*	48"x30"	2	**	135.41
DIR22	92+43.1	*	48"x30"	2	**	130.84
DIR23	90+71.1	*	48"x30"	2	**	126.55
DIR50	22+05.0	*	48"x30"	2	**	122.86
DIR51	20+85.4	*	48"x30"	2	**	119.68
DIR52°	20+85.4	18.7' RT	34"x24"	2	124.00	120.00
DI118	274+71.7	66.2' LT	72"x24"	2	145.96	139.60
DI119°	274+63.2	***	66"x66"	2	****	*****
DI121°	528+17.8	***	66"x66"	2	****	*****
DIR53°	27+65.0	27.0' LT	72"x72"	2	142.19	134.78
DIR57°	24+69.8	23.7' LT	48"x30"	2	136.00	131.64

* MATCH PROPOSED CURBLINE
** MATCH FLOWLINE OF PROPOSED CURB AND GUTTER
*** MATCH EDGE OF BARRIER
**** MATCH FLOWLINE OF BARRIER AND GUTTER
***** MATCH FLOWLINE OF EXISTING PIPE
° CAST IN PLACE

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
P 117	36" RCP	IV	26'	0.027	140.50	139.80
P 118	36" RCP	IV	13'	0.023	139.60	139.30
P 151	18" RCP	IV	244'	0.030	139.84	132.41
P 152	18" RCP	IV	115'	0.030	132.41	128.91
P 153	18" RCP	IV	20'	0.005	128.91	128.81
P 154	18" RCP	IV	10'	0.005	128.81	128.76
P R21	18" RCP	IV	155'	0.028	135.41	131.04
P R22	18" RCP	IV	170'	0.024	130.84	126.75
P R23	18" RCP	IV	150'	0.023	126.55	123.06
P R50	18" RCP	IV	120'	0.025	119.88	122.86
P R51	18" RCP	IV	10'	0.012	119.68	119.56
P R52	18" RCP	IV	5'	0.024	120.00	119.88

MANHOLE SCHEDULE

NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
MH120°	274+66.2	94.3' LT	48"x48"	149.19	140.50
MH121°	274+74.6	51.7' LT	66"x66"	147.97	**
MH122	269+15.0	68.7' LT	48"x30"	132.14	128.81
MH123	269+34.9	65.8' LT	48"x30"	131.77	128.91
MH124	270+50.0	65.8' LT	48"x30"	133.26	132.41
MH110	520+73.6	*	66"x30"	*	119.36

* TO BE SET IN FIELD BY ENGINEER
** MATCH EXISTING PIPE INVERT
° CAST IN PLACE

CONVERT TO JUNCTION BOX SCHEDULE

NO.	STATION	OFFSET	TOP EL.	INV. EL.
R51	27+62.9	12.4' LT	*	**

* TO BE SET IN FIELD BY ENGINEER
** MATCH EXISTING PIPE INVERT

GUARDRAIL SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
6	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1	25+25.62	-20.06	50
8	GUARDRAIL TO BARRIER CONNECTION (EXIT TYPE)	520+68.66	53.17	14.23
9	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1	520+80.17	53.13	1362.5
56	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1	525+29.84	44.57	50
57	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1	25+75.79	-18	1287.5
58	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1	525+79.75	40.91	875

UNDERDRAIN SCHEDULE

NO.	SIZE / TYPE	LENGTH	DIS. TYPE	DIS. EL.
12	6" PERF. PVC	11.84	INLET	*
13	6" PERF. PVC	150.03	INLET	*
14	6" PERF. PVC	169.90	INLET	*
15	6" PERF. PVC	155.14	INLET	*
16	6" PERF. PVC	300.00	INLET	*
62	6" PERF. PVC	138.68	UDO	141.02
63	6" PERF. PVC	300.00	MANHOLE	*
64	6" PERF. PVC	231.36	UDO	123.90

* INVERT FOR CLOSED SYSTEM TO BE SET IN FIELD.
REFER TO UNDERDRAIN DETAIL.

UNDERDRAIN OUTLETS

NO.	LENGTH	DIS. EL.
89	33.00	140.92
90	32.00	123.82

NOTE: ALL OULET STRUCTURES USE NON-PERFORATED PVC PIPE.

ROADWAY CORE SCHEDULE

NO.	STATION	OFFSET	DESCRIPTION
C#7	524+08.23	33.58	2" ASPHALT OVER 12" PCC
C#8	526+95.72	24.32	7" ASPHALT
C#14	268+45.75	-37.43	10" ASPHALT
C#15	270+45.64	-43.36	9" ASPHALT
C#16	273+95.64	-21.83	3" ASPHALT OVER 15" PCC
C#38	21+70.76	-6.20	8" ASPHALT

SOIL BORING SCHEDULE

NO.	STATION	OFFSET	GRND EL.	ROCK ELEV.
SS4-1	26+21	30.00	138.96	<113.0
SS4-2	26+21	50.00	139.09	121.1

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	PORTLAND CEMENT CONCRETE CURB, TYPE 3	767.25

FLARED END SECTION SCHEDULE

NO.	STATION	OFFSET	SIZE	SAFETY GRATE
12	273+00.00	65.84' LT	18"	X

RIPRAP SCHEDULE

NO.	TYPE	AREA
RR 11	R-4	12 SY

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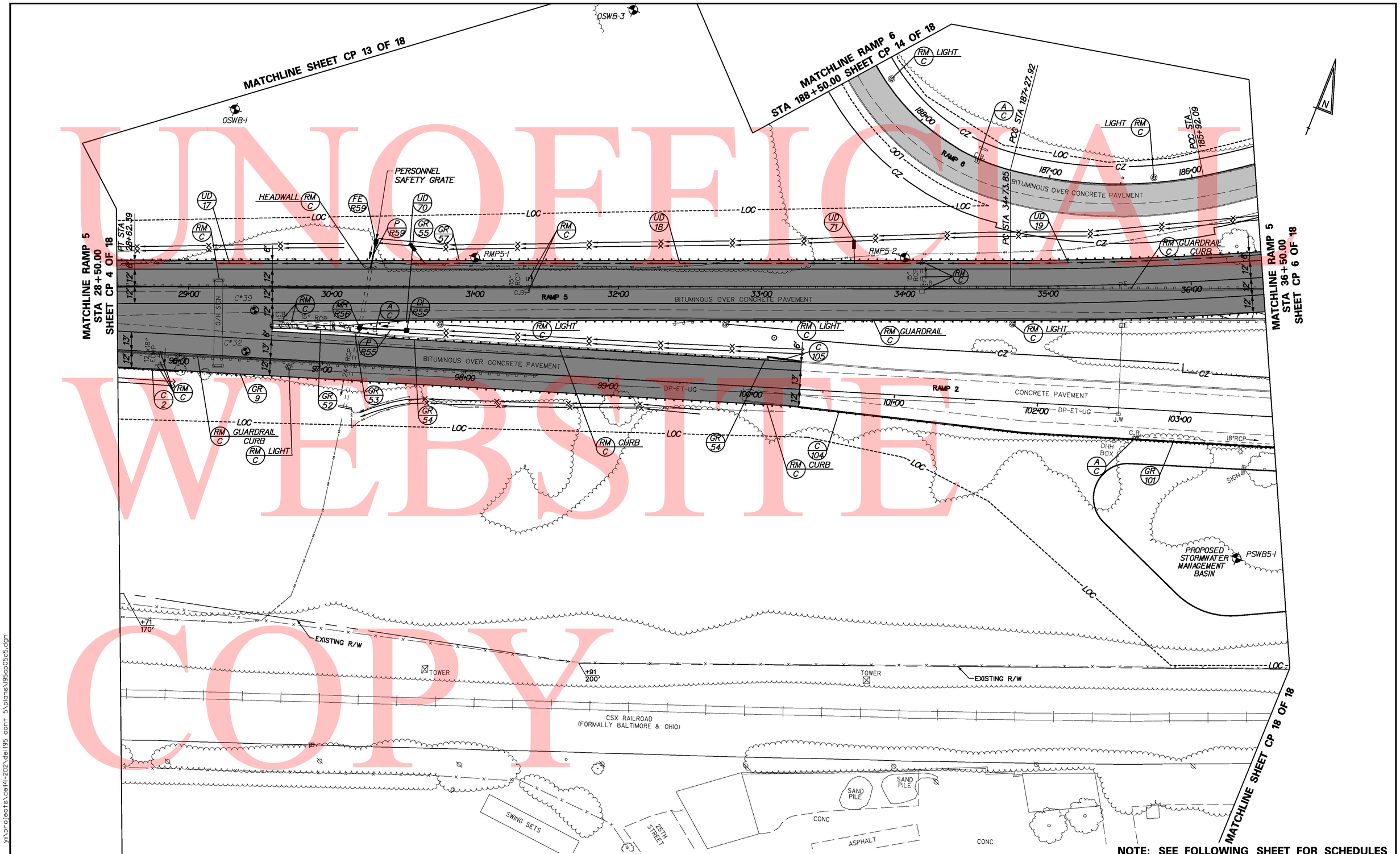

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NOTE: SEE FOLLOWING SHEET FOR SCHEDULES

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	CONSTRUCTION PLAN CP 5 OF 18	SHEET NO. 49
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
DIR55	30+52.3	30.9' RT	48"x30"	2	149.00	146.00

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
P R59	24" RCP	IV	20'	0.05	146.75	145.84
P R55	18" RCP	IV	33'	0.091	146.00	143.00

FLARED END SECTION SCHEDULE

NO.	STATION	OFFSET	SIZE	SAFETY GRATE
R59	30+30.7	30.8' LT	24"	X

MANHOLE SCHEDULE

NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
MH R56°	30+19.5	29.1' RT	ROUND	150.30	143.00

* TO BE SET IN FIELD BY ENGINEER
** MATCH EXISTING PIPE INVERT
° CAST IN PLACE

ROADWAY CORE SCHEDULE

NO.	STATION	OFFSET	DESCRIPTION
C#32	24+46.07	16.69	2-1/2" ASPHALT OVER 10" PCC
C#39	96+46.14	-4.10	2-3/4" ASPHALT OVER 9" PCC

GUARDRAIL SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
52	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 3	29+56.84	27.71	50.00
53	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1	97+11.97	-22.66	287.50
54	END ANCHORAGE	99+99.32	-19	12.50
55	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1	30+06.08	27.66	853.20
101	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 2	101+64.04	19.45	350

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
2	PORTLAND CEMENT CONCRETE CURB, TYPE 3	42.45
104	PORTLAND CEMENT CONCRETE CURB, TYPE 3	414.36
105	PORTLAND CEMENT CONCRETE CURB, TYPE 1	24.08

UNDERDRAIN SCHEDULE

NO.	SIZE / TYPE	LENGTH	DIS. TYPE	DIS. EL.
17	6" PERF. PVC	300.00	INLET	*
18	6" PERF. PVC	300.00	UDO	150.56
19	6" PERF. PVC	300.00	UDO	162.46

* INVERT FOR CLOSED SYSTEM TO BE SET IN FIELD.
REFER TO UNDERDRAIN DETAIL.

UNDERDRAIN OUTLETS

NO.	LENGTH	DIS. EL.
70	18.00	150.51
71	17.00	162.41

NOTE: ALL OULET STRUCTURES USE NON-PERFORATED PVC PIPE.

SOIL BORING SCHEDULE

NO.	STATION	OFFSET	GRND EL.	ROCK ELEV.
A-443	29+27	57	153	<142
A-444	32+37	51	156	<146
OSWB-1	276+00	143.00	161.04	<145.0
OSWB-2	277+30	155.00	164.58	156.7
OSWB-3	279+00	192	169.72	<158.6
PSWB5-1	103+45	100	155.22	<139.2
RMP5-1	31+00	20.00	150.70	141.9
RMP5-2	34+00	24	157.70	<142.7

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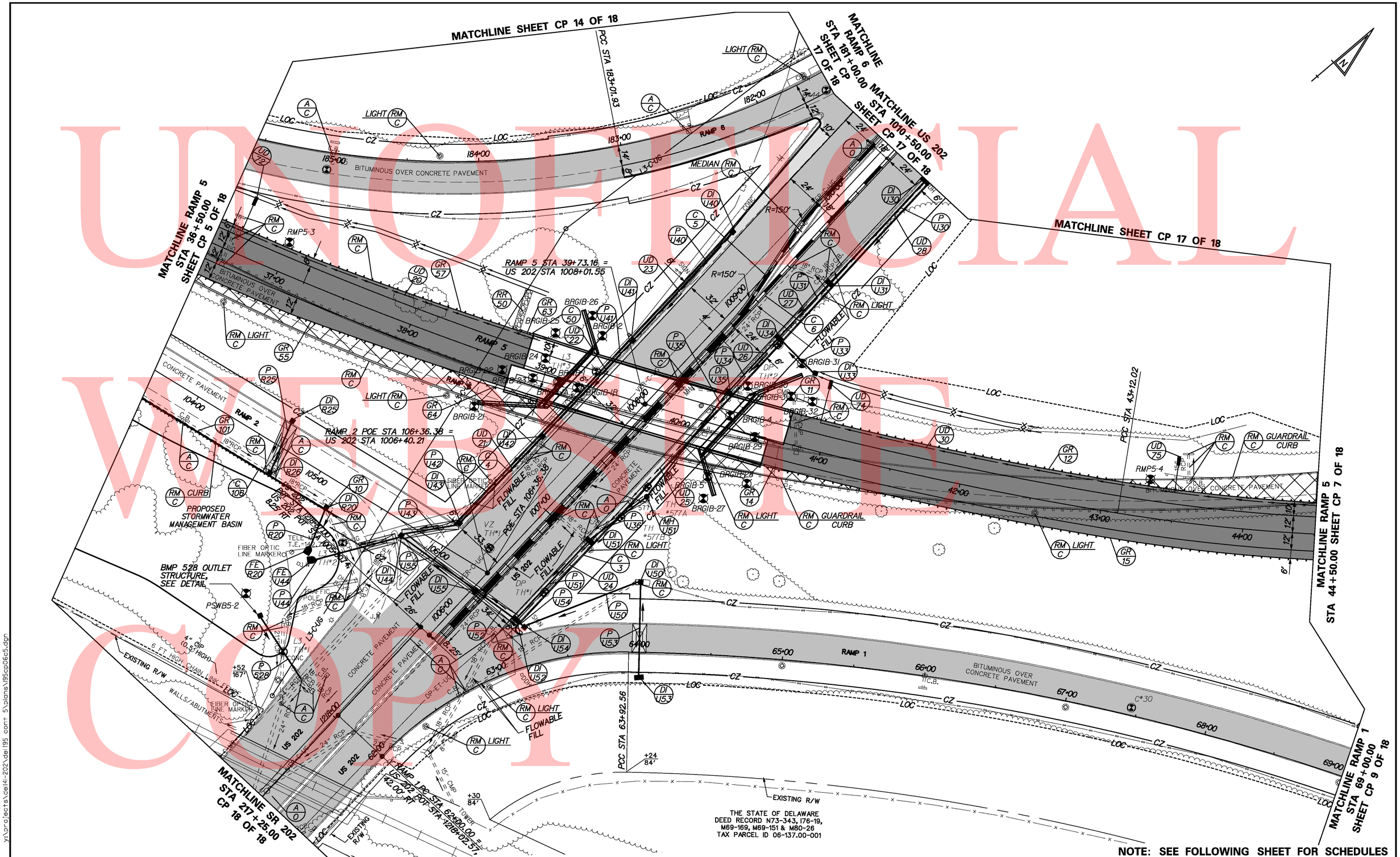

NOTE: SEE FOLLOWING SHEET FOR SCHEDULES

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. BR 1-762	CONSTRUCTION PLAN CP 6 OF 18	SHEET NO. 51
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
DIR20°	105+16.5	*	34"X24"	1	**	142.37
DIR25	104+65.0	19.8' LT	34"X24"	2	149.35	145.35
DIR26°	104+70.2	*	34"X24"	1	**	142.99
DIU30	1010+49.1	* RT▲	66"x66"	1	**	177.83
DIU31	1009+51.2	* RT▲	66"x66"	1	**	170.01
DIU33	1008+98.4	72.2' RT	48"x30"	2	178.70	173.00
DIU34	1008+99.0	*	66"x66"	1	**	166.50
DIU35	1008+47.4	*	66"x66"	1	**	162.50
DIU40	1009+31.2	*	48"x30"	1	**	168.99
DIU41	1008+28.2	*	48"x30"	1	**	160.70
DIU42	1007+36.2	*	48"x30"	1	**	153.44
DIU43	1006+52.3	*	48"X48"	1	**	146.86
DIU44	105+71.3	9.2' RT	48"X48"	1	148.12	142.84
DIU50	64+00.0	49.0' LT	48"x30"	2	150.50	147.18
DIU51	1007+05.1	*	66"x66"	1	**	151.50
DIU52	1006+30.0	*	66"x66"	1	**	145.75
DIU53	64+00.0	17.6' RT	72"X24"	2	150.71	147.71
DIU54	1006+30.0	45.0' RT	48"x30"	2	150.00	145.80
DIU55	1006+23.0	*	48"x30"	1	**	143.54

* MATCH PROPOSED CURBLINE
** MATCH FLOWLINE OF PROPOSED CURB AND GUTTER
° CAST IN PLACE
▲ SEE SPECIAL PROVISION ITEM 708512

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
P U30	18" RCP	IV	98'	0.078	177.83	170.21
P U31	18" RCP	IV	52'	0.064	170.01	166.70
P U33	18" RCP	IV	34'	0.185	173.00	166.70
P U34	18" RCP	IV	52'	0.073	166.50	162.70
P U35	18" RCP	IV	92'	0.075	162.50	155.56
P U36	18" RCP	IV	51'	0.072	155.36	151.70
P U40	18" RCP	IV	103'	0.079	168.99	160.90
P U41	18" RCP	IV	92'	0.077	160.70	153.64
P U42	18" RCP	IV	84'	0.076	153.44	147.06
P U43	18" RCP	IV	42'	0.079	146.86	143.54
P U44	24" RCP	IV	62'	0.014	142.84	142.00
P U50	18" RCP	IV	88'	0.013	147.18	146.00
P U51	18" RCP	IV	75'	0.074	151.50	145.95
P U52	24" RCP	IV	33'	0.015	145.75	145.25
P U53	18" RCP	IV	66'	0.005	147.71	147.38
P U54	18" RCP	IV	6'	0.008	145.80	145.75
P U55	24" RCP	IV	65'	0.008	143.54	143.04
P R25	18" RCP	IV	40'	0.059	145.35	142.99
P R20	18" RCP	IV	30'	0.012	142.37	142.00
528	24" RCP	IV	51'	0.006	135.33	135.00

FLARED END SECTION SCHEDULE

NO.	STATION	OFFSET	SIZE
FER20	105+21.3	52.0' RT	18"
FEU44	105.26.6	56.4' RT	24"

GUARDRAIL SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
10	END ANCHORAGE	105+13.99	20	12.50
11	GUARDRAIL TO BARRIER CONNECTION (EXIT TYPE)	40+74.38	-22.00	14.23
12	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1	40+85.98	-22.00	480.74
14	GUARDRAIL TO BARRIER CONNECTION (EXIT TYPE)	40+61.98	18.96	14.23
15	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1	40+73.39	19.12	566.87
63	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 2	38+56.26	21.47	26.81
64	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 2	38+62.50	-21.39	26.81

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
3	PORTLAND CEMENT CONCRETE CURB, TYPE 1	432.85
4	PORTLAND CEMENT CONCRETE CURB, TYPE 1	526.19
5	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER SPECIAL	470.28
6	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER SPECIAL	469.28
50	PORTLAND CEMENT CONCRETE CURB, TYPE 3	22.0
106	PORTLAND CEMENT CONCRETE CURB, TYPE 3	159.81

UNDERDRAIN SCHEDULE

NO.	SIZE / TYPE	LENGTH	DIS. TYPE	DIS. EL.
20	6" PERF. PVC	239.79	UDO	173.58
21	6" PERF. PVC	83.87	INLET	*
22	6" PERF. PVC	92.18	INLET	*
23	6" PERF. PVC	103.30	INLET	*
24	6" PERF. PVC	75.34	INLET	*
25	6" PERF. PVC	142.29	INLET	*
26	6" PERF. PVC	51.69	INLET	*
27	6" PERF. PVC	52.12	INLET	*
28	6" PERF. PVC	97.92	INLET	*
30	6" PERF. PVC	252.24	UDO	189.88

* INVERT FOR CLOSED SYSTEM TO BE SET IN FIELD.
REFER TO UNDERDRAIN DETAIL.

UNDERDRAIN OUTLETS

NO.	LENGTH	DIS. EL.
72	26.00	172.80
74	31.00	188.95
75	26.00	197.50

NOTE: ALL OULET STRUCTURES USE NON-PERFORATED PVC PIPE.

MANHOLE SCHEDULE

NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
MHU51	1007+55	45.0 RT	48"x30"	160.62	155.36

* TO BE SET IN FIELD BY ENGINEER
** MATCH EXISTING PIPE INVERT
° CAST IN PLACE

ROADWAY CORE SCHEDULE

NO.	STATION	OFFSET	DESCRIPTION
C#30	67+45.76	-5.39	12-1/2" ASPHALT
C#44	181+53.48	-12.70	2-1/2" ASPHALT OVER 9-3/4" PCC
C#45	185+04.67	-12.25	13-1/2" ASPHALT

UTILITY TEST HOLE & MANHOLE SCHEDULE

POINT	STATION	OFFSET	ELEVATION	DEPTH	REMARKS
L3 TH#1	1218+08.84	-58.40'	138.17	3.5'	4'X3' (12) 1.5" DUCTS
L3 TH#2	1005+86.64	-88.29'	144.68	5'	4'X3' (12) 1.5" DUCTS
VZ TH#1	1006+53.84	-10.50'	152.35	3.22'	2'X2' CONC DUCT BANK
DP TH#1	1006+57.51	38.52'	152.53	5.21'	2' CONC DUCT BANK
TH #577B	1007+32.16	41.38'	158.37	5.57'	2'X1.5' CONC DUCT BANK
TH #577A	1007+60.21	40.76'	161.02	6.43'	2'X1.5' CONC DUCT BANK
L3 TH#3	1007+94.94	-40.42'	162.27	4.5'	4'X3' (12) 1.5" DUCTS
DP TH#2	1008+95.49	39.88'	171.69	6.42'	2' CONC DUCT BANK

RIPRAP SCHEDULE

NO.	TYPE	AREA
RR 50	R-4	25 SY

SOIL BORING SCHEDULE

NO.	STATION	OFFSET	GRND EL.	ROCK ELEV.
BRG1B-21	38+61.00	38.50	179.28	171.28
BRG1B-22	38+71.00	8.00	179.05	<159.05
BRG1B-23	38+93.00	6.50	176.55	<156.55
BRG1B-24	38+97.00	9.50	174.08	<154.08
BRG1B-25	38+98.00	38.50	173.30	158.80
BRG1B-26	39+19.00	48.00	173.99	<153.99
BRG1B-27	40+30.00	52.00	175.04	167.74
BRG1B-28	40+56.00	34.00	185.46	175.16
BRG1B-29	40+53.00	1.00	182.47	168.07
BRG1B-30	40+39.00	32.00	170.01	161.16
BRG1B-31	40+72.00	27.00	181.99	170.09
BRG1B-32	40+86.00	33.00	180.29	170.29
PSWB5-2	105+00.00	100.00	149.09	<133.1
RMP5-3	37+00.00	20.00	165.40	152.9
RMP5-4	43+30.00	20.00	194.60	188.6

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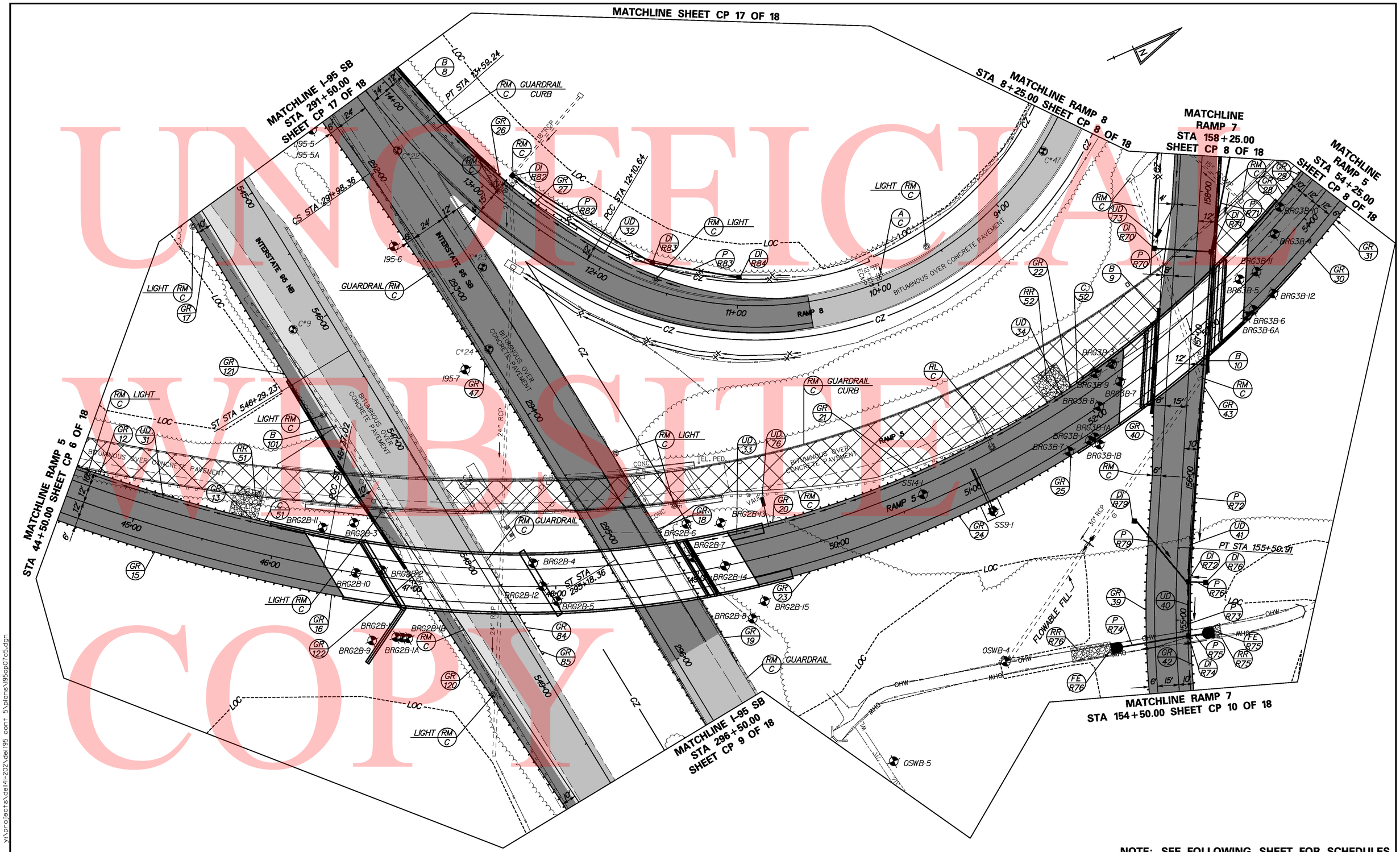

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NOTE: SEE FOLLOWING SHEET FOR SCHEDULES

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. BR 1-763,1-764	CONSTRUCTION PLAN CP 7 OF 18	SHEET NO. 53
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		

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12/10/2010

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
DIR70	157+58.3	29.6' LT	34"X24"	2	202.75	199.75
DIR71	157+58.4	10.5' RT	48"X48"	2	205.30	198.35
DIR72	155+26.9	8.5' RT	48"X48"	2	201.73	195.85
DIR74	154+88.7	8.5' RT	66"X48"	2	201.90	192.00
DIR76	155+26.9	20.5' RT	34"X24"	2	200.63	197.63
DIR79	155+67.3	31.6' LT	48"X30"	2	201.50	197.50
DIR82	12+88.8	18.4' RT	48"X30"	2	187.09	184.00
DIR83	11+66.7	17.6' RT	48"X30"	2	189.59	186.39
DIR84	11+00.0	19.2' RT	48"X30"	2	191.23	187.23

UNDERDRAIN SCHEDULE

NO.	SIZE / TYPE	LENGTH	DIS. TYPE	DIS. EL.
31	6" PERF. PVC	300.00	UDO	197.58
32	6" PERF. PVC	300.00	INLET	*
33	6" PERF. PVC	46.09	UDO	215.76
34	6" PERF. PVC	271.56	UDO	215.76
40	6" PERF. PVC	37.84	INLET	*
41	6" PERF. PVC	149.65	INLET	*

* INVERT FOR CLOSED SYSTEM TO BE SET IN FIELD.
REFER TO UNDERDRAIN DETAIL.

UNDERDRAIN OUTLETS

NO.	LENGTH	DIS. EL.
73	27.00	203.85
76	21.00	215.69

NOTE: ALL OULET STRUCTURES USE NON-PERFORATED PVC PIPE.

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
P R70	18" RCP	IV	40'	0.005	199.75	199.55
P R71	30" RCP	IV	74'	0.114	207.00	198.55
P R72	30" RCP	IV	230'	0.010	198.35	196.05
P R73	30" RCP	IV	38'	0.051	195.85	193.90
P R74	48" RCP	IV	44'	0.050	192.00	189.40
P R75	48" RCP	IV	10'	0.050	193.10	192.20
P R76	18" RCP	IV	12'	0.048	197.63	197.05
P R79	18" RCP	IV	56'	0.008	197.50	197.05
P R82	18" RCP	IV	115'	0.021	186.39	184.00
P R83	18" RCP	IV	62'	0.010	187.23	186.59

ROADWAY CORE SCHEDULE

NO.	STATION	OFFSET	DESCRIPTION
C#9	545+96.54	25.69	12" ASPHALT
C#22	291+96.51	-25.14	9-1/2" ASPHALT
C#23	292+96.31	-28.60	10" ASPHALT
C#24	293+46.63	-1.54	9" ASPHALT
C#47	8+50.73	-2.82	2-1/2" ASPHALT OVER 11" PCC 2"SC

FLARED END SECTION SCHEDULE

NO.	STATION	OFFSET	SIZE
R75	154+90.4	22.5' RT	48"
R76	154+82.1	42.0' LT	48"

SOIL BORING SCHEDULE

NO.	STATION	OFFSET	GRND EL.	ROCK ELEV.
BRG2B-09	46+77.75	45.00	191.47	188.47
BRG2B-10	46+60.00	0.00	196.88	189.48
BRG2B-11	46+30.85	27.00	199.70	187.70
BRG2B-12	47+90.82	0.00	180.59	165.89
BRG2B-13	49+22.43	30.00	207.75	<148.25
BRG2B-14	49+19.22	0.00	195.51	<137.41
BRG2B-15	49+40.52	30.00	192.35	<132.35
BRG3B-07	51+70.78	15.00	218.31	<212.81
BRG3B-08	52+05.14	0.00	219.57	214.87
BRG3B-09	52+16.58	20.00	220.99	<184.89
BRG3B-10	53+95.05	18.00	229.60	191.50
BRG3B-11	53+50.00	0.00	225.07	221.97
BRG3B-12	53+47.12	19.00	223.97	221.67
I95-5	291+50.00	15.00	186.54	<173.0
I95-6	292+50.00	15.00	188.76	<163.8
I95-7	293+50.00	20.00	189.01	<164.5
OSWB-4	297+16.00	238.00	186.84	<170.8
OSWB-5	297+35	135.00	183.84	<167.8
SS14-1	50+67.00	6.00	216.10	<191.1

RIPRAP SCHEDULE

NO.	TYPE	AREA
RR 51	R-4	50 SY
RR 52	R-4	50 SY
RR 75	R-6	6 SY
RR 76	R-6	40 SY

GUARDRAIL SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
13	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 2	45+73.19	-22	26.8125
16	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 2	46+33.97	18	26.8125
18	END ANCHORAGE	295+12.28	-36	12.5
19	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1	295+24.78	-36	100
20	GUARDRAIL TO BARRIER CONNECTION (EXIT TYPE)	49+51.34	-22	14.23
21	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1	49+63.21	-22	209.2367
22	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 2	51+79.14	-22	26.8125
23	GUARDRAIL TO BARRIER CONNECTION (EXIT TYPE)	49+62.87	18	14.23
24	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1	49+76.74	18	183.10
25	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 2	51+55.31	18	26.8125
26	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1	12+79.65	12	27.6
27	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1	12+27.94	14	50
28	GUARDRAIL TO BARRIER CONNECTION (EXIT TYPE)	53+97.27	-22	14.23
29	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1	54+11.96	-22	625
30	GUARDRAIL TO BARRIER CONNECTION (EXIT TYPE)	53+74.54	18	14.23
31	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1	53+88.41	18	190.11
40	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1	156+28.48	-22.16	27.6
43	GUARDRAIL TO BARRIER CONNECTION, APPROACH, TYPE 1	156+58.55	11.29	27.6
84	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1	548+05.97	-5.75	62.5
85	END ANCHORAGE	548+68.47	-5.78	12.5
120	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1	547+91.51	43.89	237.5
121	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1	546+05.22	46.90	27.6
122	GUARDRAIL TO BARRIER CONNECTION (EXIT TYPE)	547+80.02	44.37	14.23

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
C/51	PORTLAND CEMENT CONCRETE CURB, TYPE 3	22 LF
C/52	PORTLAND CEMENT CONCRETE CURB, TYPE 3	22 LF

BARRIER SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
8	SAFETY BARRIER, PERMANENT, SINGLE FACE	100.21
9	SAFETY BARRIER, PERMANENT, SINGLE FACE	73.58
10	SAFETY BARRIER, PERMANENT, SINGLE FACE	150.17
101	SAFETY BARRIER, PERMANENT, SINGLE FACE	155.01

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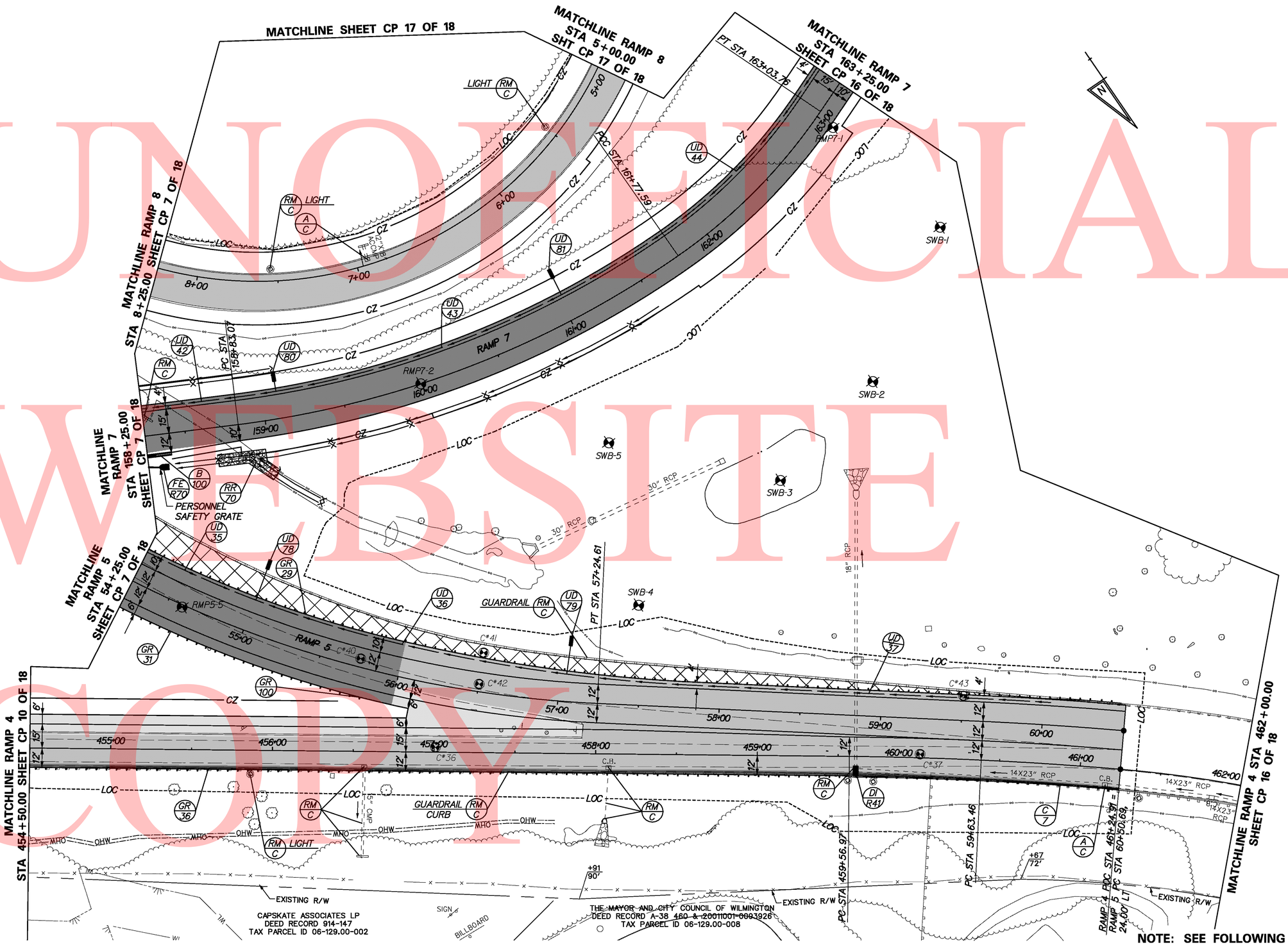

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	CONSTRUCTION PLAN CP 8 OF 18	SHEET NO. 55
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
DIR41°	459+61.0	*	48"X48"	2	**	***

* MATCH PROPOSED CURBLINE
** MATCH FLOWLINE OF PROPOSED CURB AND GUTTER
*** MATCH INVERT OF EXISTING PIPE
° CAST IN PLACE

SOIL BORING SCHEDULE

NO.	STATION	OFFSET	GRND EL.	ROCK ELEV.
RMP5-5	54+51.00	5.00	228.40	<198.4
RMP7-1	163+00.00	12.00	235.20	<225.2
RMP7-2	160+00.00	0.00	221.20	211.7

RIPRAP SCHEDULE

NO.	TYPE	AREA
RR 70	R-6	40 SY

FLARED END SECTION SCHEDULE

NO.	STATION	OFFSET	SIZE	SAFETY GRATE
FER70	158+34.8	20.5' RT	30"	X

UNDERDRAIN SCHEDULE

NO.	SIZE / TYPE	LENGTH	DIS. TYPE	DIS. EL.
35	6" PERF. PVC	139.46	UDO	228.97
36	6" PERF. PVC	198.18	UDO	228.97
37	6" PERF. PVC	300.00	UDO	235.40
42	6" PERF. PVC	118.90	UDO	203.93
43	6" PERF. PVC	187.26	UDO	209.10
44	6" PERF. PVC	300.00	UDO	221.70

UNDERDRAIN OUTLETS

NO.	LENGTH	DIS. EL.
78	27.00	228.89
79	24.00	235.33
80	12.00	209.06
81	18.00	221.65

NOTE: ALL OULET STRUCTURES USE NON-PERFORATED PVC PIPE.

BARRIER SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
100	SAFETY BARRIER, PERMANENT, SINGLE FACE	15.00

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
7	PORTLAND CEMENT CONCRETE CURB, TYPE 3	167.04

GUARDRAIL SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
100	END ANCHORAGE	55+73.82	18	12.5

ROADWAY CORE SCHEDULE

NO.	STATION	OFFSET	DESCRIPTION
C#36	457+00.80	-3.04	4" ASPHALT OVER 11" PCC
C#37	460+00.70	-2.22	8" ASPHALT OVER 10" PCC
C#40	55+74.82	-5.28	5" ASPHALT OVER 10" PCC
C#41	56+50.21	-24.35	16" ASPHALT
C#42	56+50.34	-4.76	6" ASPHALT OVER 10" PCC
C#43	59+50.64	-15326	16-1/2" ASPHALT

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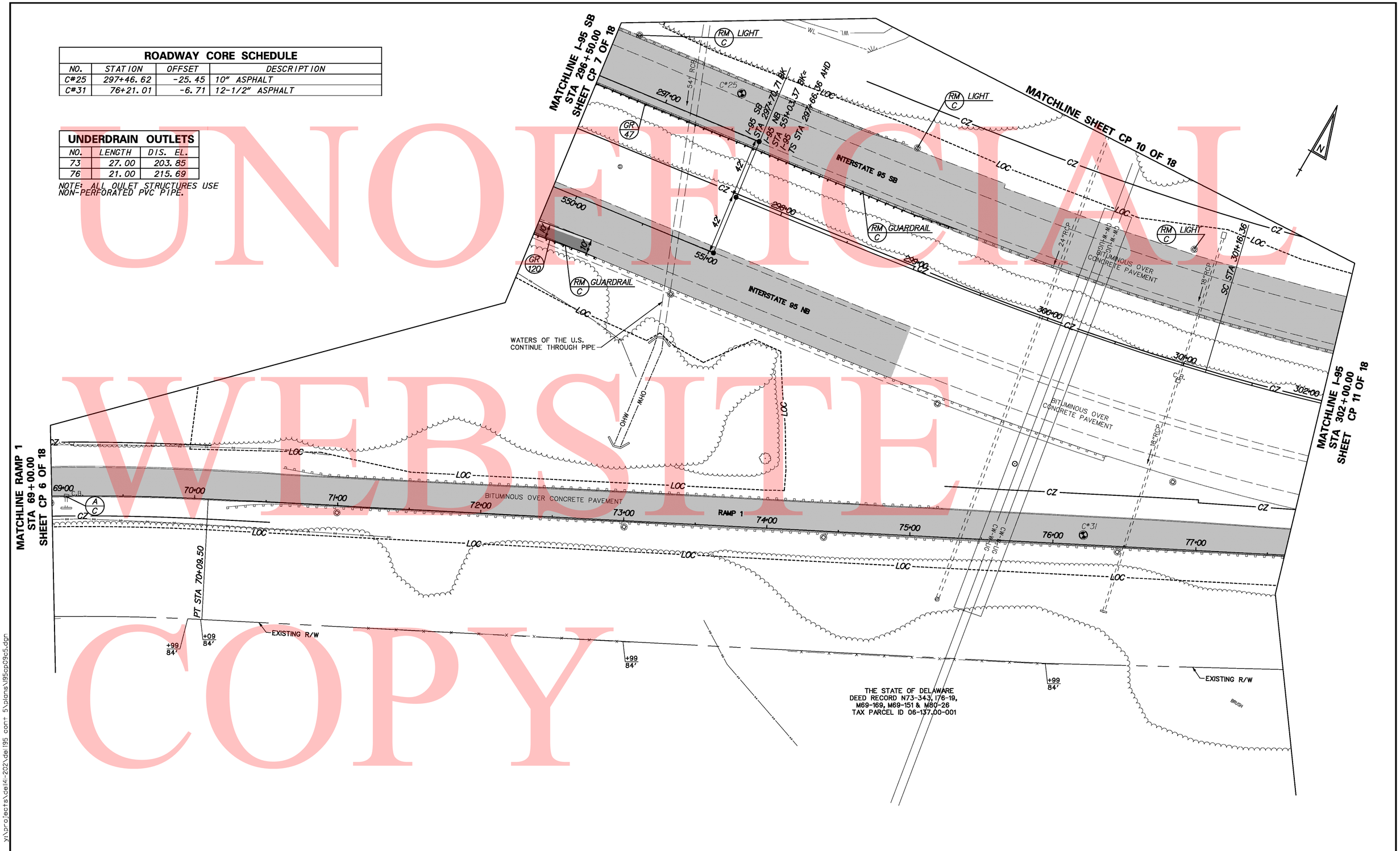
ROADWAY CORE SCHEDULE			
NO.	STATION	OFFSET	DESCRIPTION
C#25	297+46.62	-25.45	10" ASPHALT
C#31	76+21.01	-6.71	12-1/2" ASPHALT

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
73	27.00	203.85
76	21.00	215.69

NOTE: ALL OULET STRUCTURES USE NON-PERFORATED PVC PIPE.



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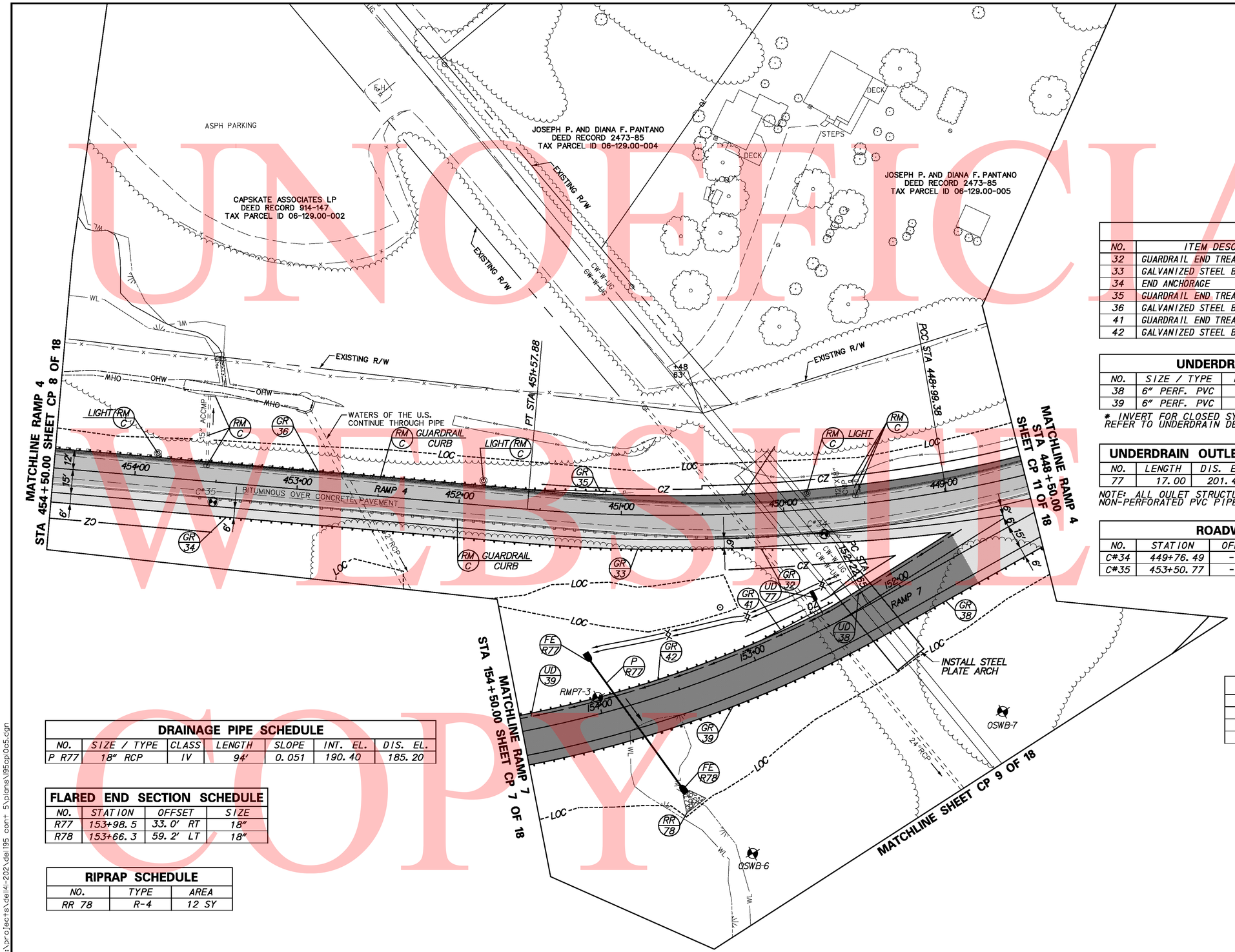
12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	CONSTRUCTION PLAN CP 9 OF 18	SHEET NO. 57
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		



GUARDRAIL SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
32	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1	449+87.85	-24.22	50
33	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1	450+36.65	-21	300
34	END ANCHORAGE	453+34.11	-21	12.5
35	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1	451+07.26	14	50
36	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1	451+57.88	12	962.5
41	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1	152+41.67	12.13	50
42	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1	153+00.72	10	362.5

UNDERDRAIN SCHEDULE

NO.	SIZE / TYPE	LENGTH	DIS. TYPE	DIS. EL.
38	6" PERF. PVC	99.71	UDO	201.51
39	6" PERF. PVC	235.87	INLET	*

* INVERT FOR CLOSED SYSTEM TO BE SET IN FIELD. REFER TO UNDERDRAIN DETAIL.

UNDERDRAIN OUTLETS

NO.	LENGTH	DIS. EL.
77	17.00	201.46

NOTE: ALL OULET STRUCTURES USE NON-PERFORATED PVC PIPE.

ROADWAY CORE SCHEDULE

NO.	STATION	OFFSET	DESCRIPTION
C#34	449+76.49	-16.05	3-3/4" ASPHALT OVER 10-1/2" PCC
C#35	453+50.77	-12.30	4" ASPHALT OVER 10" PCC

SOIL BORING SCHEDULE

NO.	STATION	OFFSET	GRND EL.	ROCK ELEV.
OSWB-6	298+65.00	185.00	184.52	<168.5
OSWB-7	300+50.00	155.00	197.19	<184.7
RMP7-3	154+00.00	10.00	186.10	174.1

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
P R77	18" RCP	IV	94'	0.051	190.40	185.20

FLARED END SECTION SCHEDULE

NO.	STATION	OFFSET	SIZE
R77	153+98.5	33.0' RT	18"
R78	153+66.3	59.2' LT	18"

RIPRAP SCHEDULE

NO.	TYPE	AREA
RR 78	R-4	12 SY

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

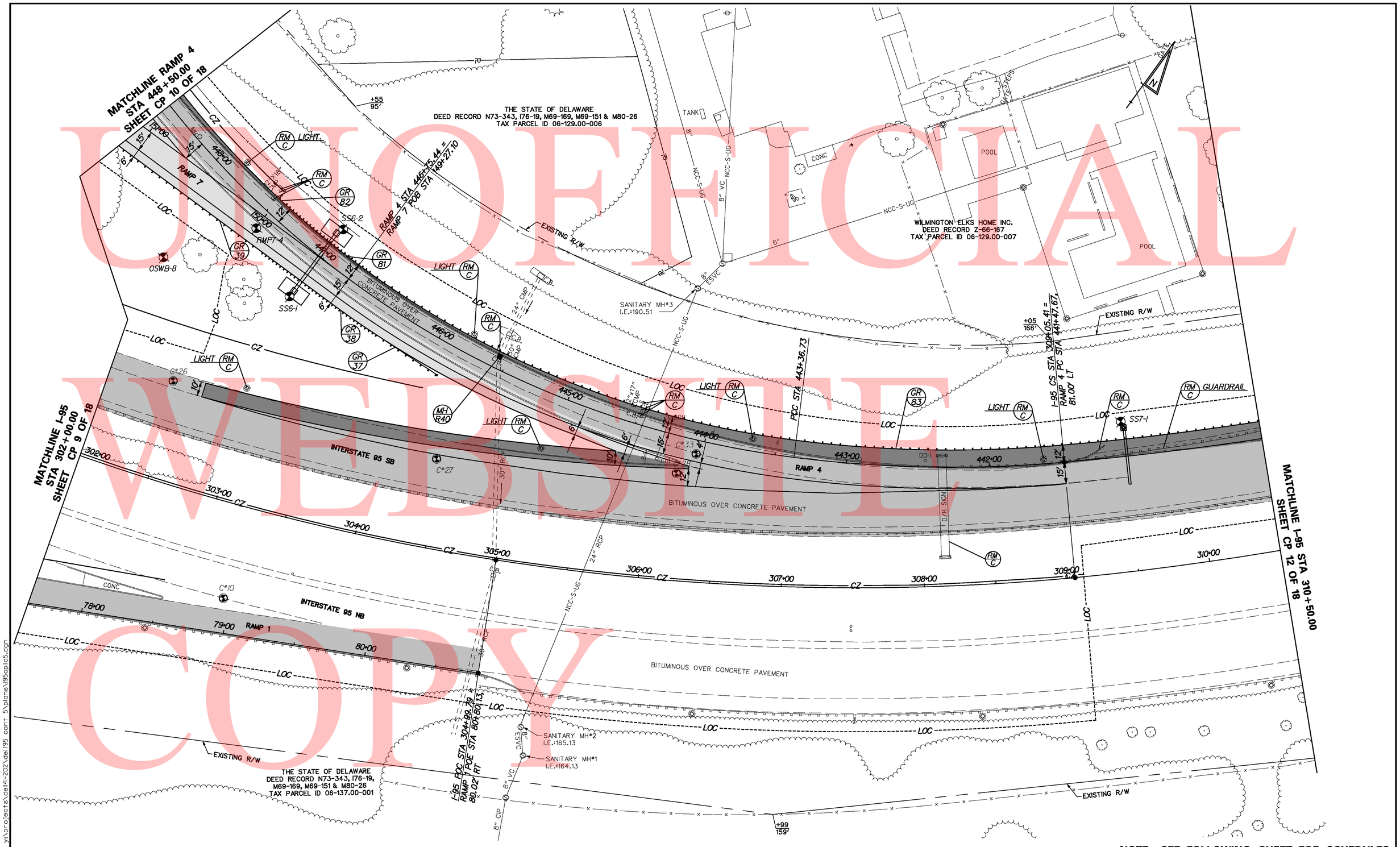
SCALE 0 30 60 90 FEET

I-95 & US 202 INTERCHANGE

CONTRACT	BRIDGE NO.	NA
T200510602	DESIGNED BY:	BMD
COUNTY	CHECKED BY:	DAG
NEW CASTLE		

CONSTRUCTION PLAN
CP 10 OF 18

SHEET NO. 58
TOTAL SHTS. 482



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NOTE: SEE FOLLOWING SHEET FOR SCHEDULES

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	CONSTRUCTION PLAN CP 11 OF 18	SHEET NO. 59
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		

MANHOLE SCHEDULE

NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
MH40°	445+56.4	8.6 RT	48"X48"	*	**

* TO BE SET IN FIELD BY ENGINEER
** MATCH EXISTING PIPE INVERT
° CAST IN PLACE

GUARDRAIL SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
37	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1	445+88.57	-23	50
38	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 2	446+37.77	-21	100
39	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1	149+94.45	-21	650
81	GALVANIZED STEEL BEAM GUARDRAIL TYPE 2	446+66.01	12	75
82	END ANCHORAGE	447+42.40	12	12.5

ROADWAY CORE SCHEDULE

NO.	STATION	OFFSET	DESCRIPTION
C#10	303+22.62	65.65	16-1/2" ASPHALT
C#26	302+46.09	-70.19	9" ASPHALT
C#27	304+45.95	-62.52	8-1/4" ASPHALT
C#28	306+20.59	-75.01	2-1/4" ASPHALT OVER 9-3/4" PCC
C#33	444+04.00	-9.57	2" ASPHALT OVER 10" PCC

SOIL BORING SCHEDULE

NO.	STATION	OFFSET	GRND EL.	ROCK ELEV.
OSWB-8	302+10.00	150.00	195.66	<185.8
RMP7-4	150+00.00	10.00	196.50	<181.5
SS6-1	447+00.00	35.00	194.59	181.6
SS6-2	447+00.00	25.00	192.14	181.1
SS7-1	309+50.00	105.00	197.07	186.1

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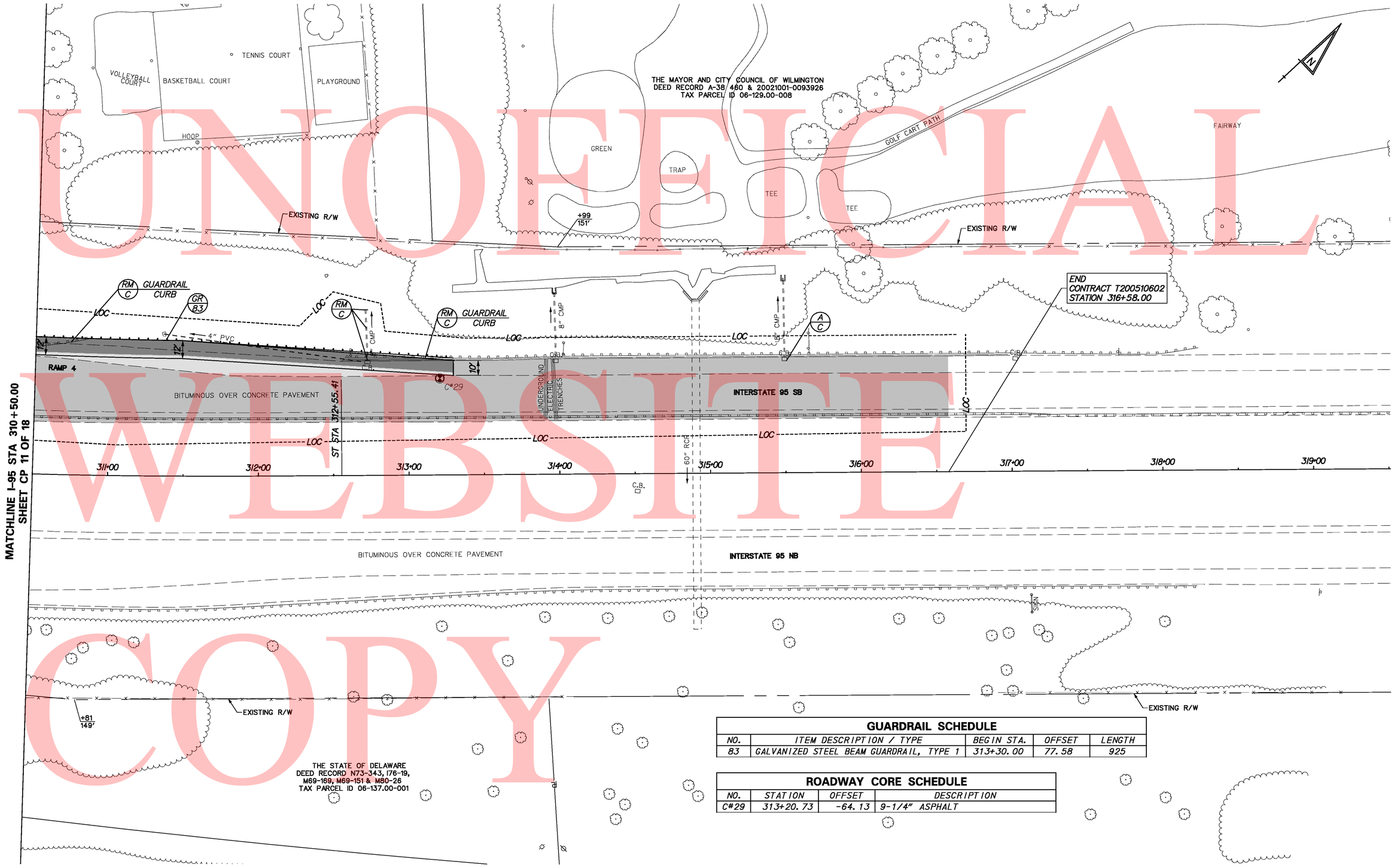

GUARDRAIL SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
83	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1	313+30.00	77.58	925

ROADWAY CORE SCHEDULE

NO.	STATION	OFFSET	DESCRIPTION
C#29	313+20.73	-64.13	9-1/4" ASPHALT

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

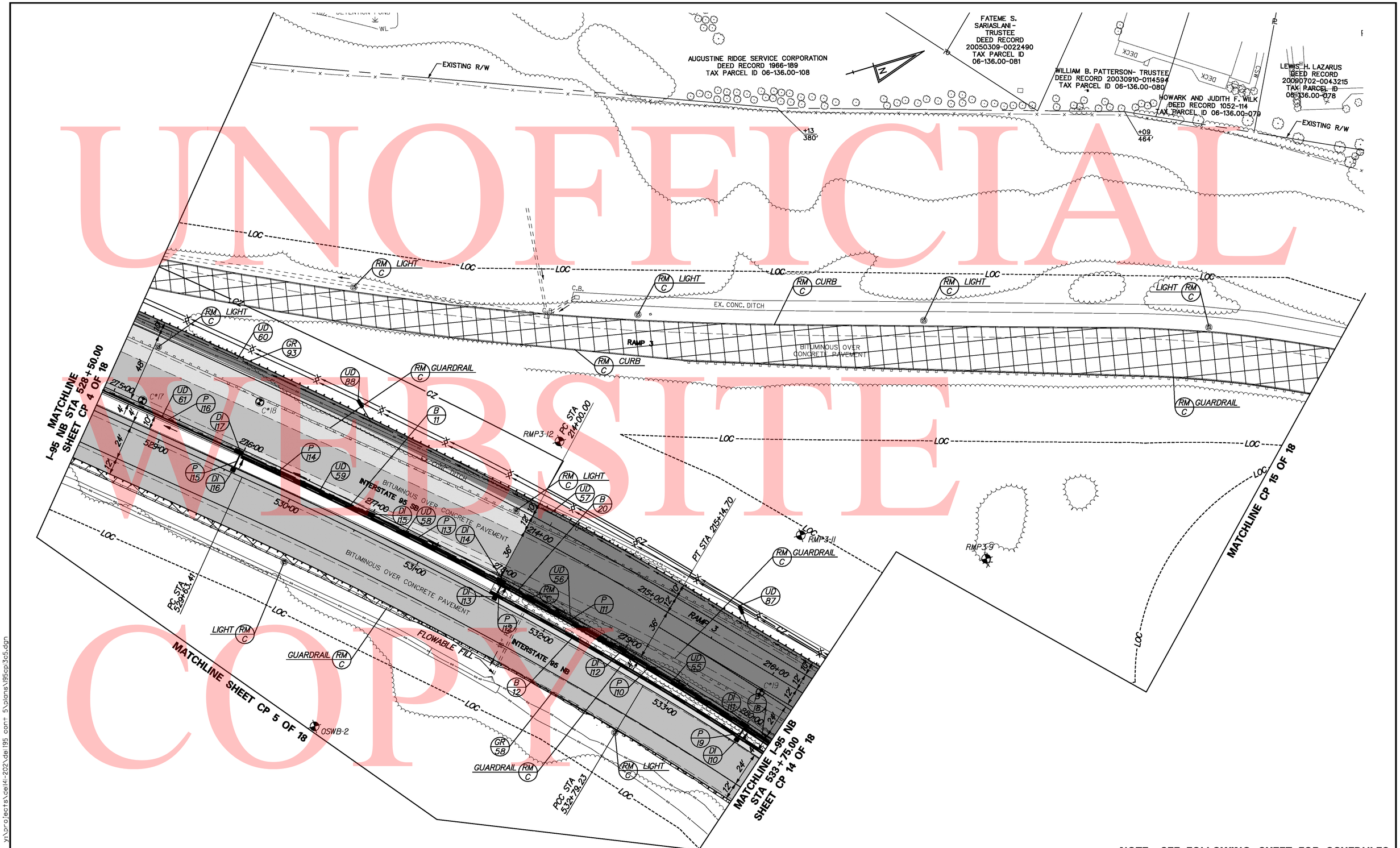
SCALE 0 30 60 90 FEET

I-95 & US 202 INTERCHANGE

CONTRACT	BRIDGE NO.	NA
T200510602	DESIGNED BY:	BMD
COUNTY		
NEW CASTLE	CHECKED BY:	DAG

CONSTRUCTION PLAN
CP 12 OF 18

SHEET NO. 61
TOTAL SHTS. 482



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NOTE: SEE FOLLOWING SHEET FOR SCHEDULES

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	CONSTRUCTION PLAN CP 13 OF 18	SHEET NO. 62
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		

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DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
DI110	533+54.6	***	34"X24"	2	****	158.00
DI111	279+99.0	***	72"x48"	2	****	157.44
DI112	278+98.5	***	72"x48"	2	****	154.88
DI113	531+58.8	***	34"X24"	2	****	152.64
DI114	278+01.3	***	72"x48"	2	****	152.05
DI115	276+985	***	72"x48"	2	****	149.00
DI116	529+55.6	***	34"X24"	2	****	146.85
DI117	275+97.0	***	72"x48"	2	****	146.25

*** MATCH EDGE OF BARRIER.
**** MATCH FLOWLINE OF BARRIER AND GUTTER.

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
P 19	18" RCP	IV	11	0.034	158.00	157.64
P 110	24" RCP	IV	97	0.025	157.44	155.00
P 111	24" RCP	IV	94	0.025	154.88	152.45
P 112	18" RCP	IV	14	0.032	152.64	152.25
P 113	24" RCP	IV	102	0.028	152.05	149.20
P 114	24" RCP	IV	102	0.026	149.00	146.45
P 115	18" RCP	IV	13	0.049	146.85	146.25
P 116	24" RCP	IV	122	0.030	146.25	142.35

BARRIER SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
11	SAFETY BARRIER, PERMANENT, SINGLE FACE	199.11
12	P.C.C. BARRIER, MODIFIED	221.43
20	P.C.C. BARRIER, MODIFIED	220.74

UNDERDRAIN SCHEDULE

NO.	SIZE / TYPE	LENGTH	DIS. TYPE	DIS. EL.
55	6" PERF. PVC	100.36	INLET	*
56	6" PERF. PVC	97.14	INLET	*
57	6" PERF. PVC	300.00	UDO	152.80
58	6" PERF. PVC	102.74	INLET	*
59	6" PERF. PVC	101.44	INLET	*
60	6" PERF. PVC	199.77	MANHOLE	*
61	6" PERF. PVC	121.92	INLET	*

* INVERT FOR CLOSED SYSTEM TO BE SET IN FIELD.
REFER TO UNDERDRAIN DETAIL.

UNDERDRAIN OUTLETS

NO.	LENGTH	DIS. EL.
87	18.00	162.37
88	18.00	152.75

NOTE: ALL OULET STRUCTURES USE
NON-PERFORATED PVC PIPE.

ROADWAY CORE SCHEDULE

NO.	STATION	OFFSET	DESCRIPTION
C#17	275+20.80	-2.31	12-1/4" ASPHALT
C#18	275+95.61	-35.61	8-3/4" ASPHALT
C#19	279+95.75	-22.69	3-1/2" ASPHALT OVER 10" PCC

SOIL BORING SCHEDULE

NO.	STATION	OFFSET	GRND EL.	ROCK ELEV.
OSWB-1	276+00.00	143.00	161.04	<145.0
OSWB-2	277+30.00	155.00	164.58	156.7
RMP3-09	216+86.00	146.00	198.10	181.1
RMP3-11	215+67.00	94.00	190.70	170.2
RMP3-12	213+92.00	67.00	178.00	<153.00

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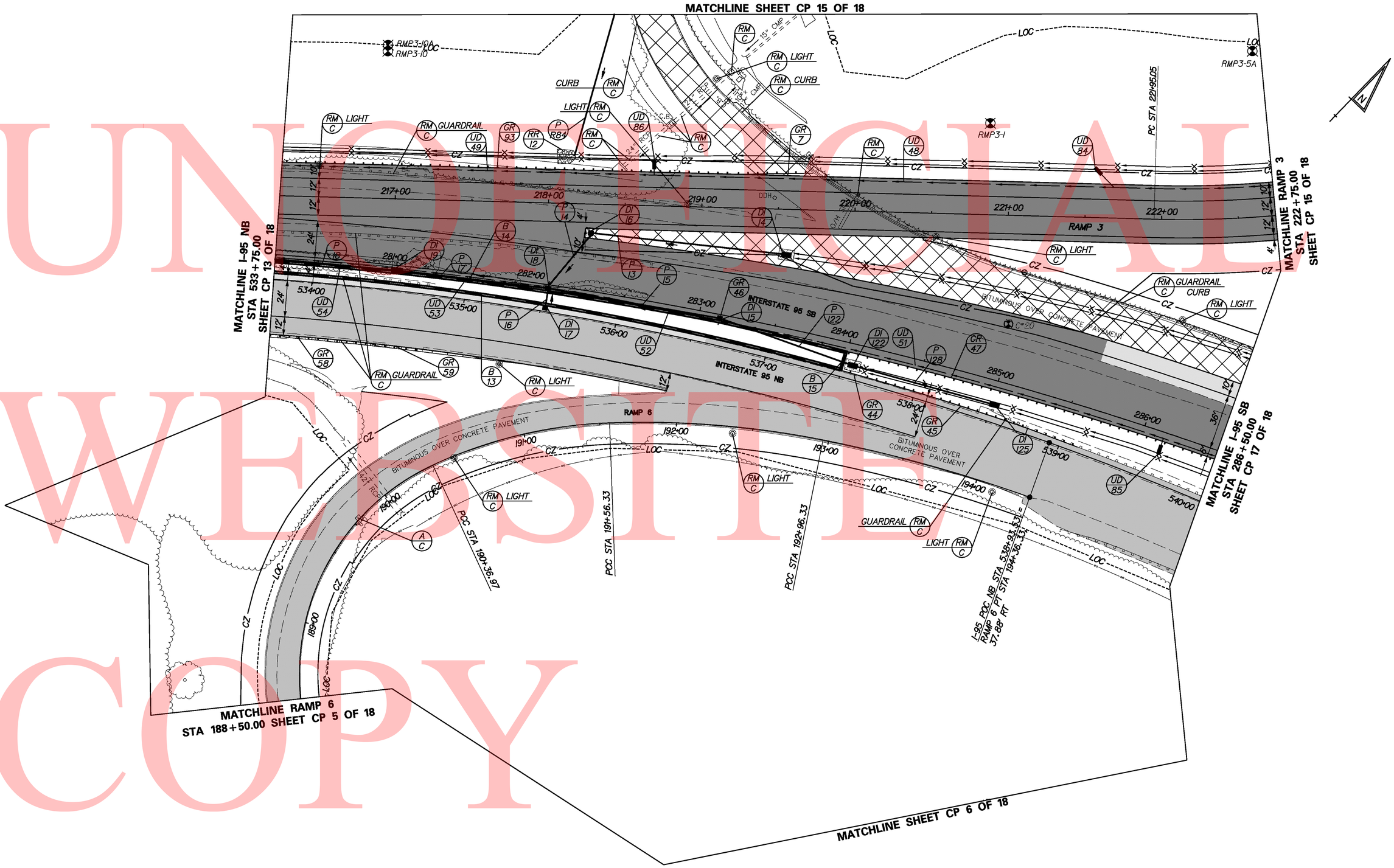

NOTE: SEE FOLLOWING SHEET FOR SCHEDULES

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	CONSTRUCTION PLAN CP 14 OF 18	SHEET NO. 64
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		

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DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
DI14	283+47.5	47.6' LT	72"X48"	2	173.27	170.52
DI15	283+13.0	***	48"x30"	2	***	164.55
DI16	282+21.8	37.9' LT	48"x30"	2	170.47	164.50
DI17	535+52.9	***	34"x24"	2	****	163.55
DI18	282+00.0	***	48"x30"	2	****	162.90
DI19	281+00.0	***	72"X48"	2	****	160.30
DI122	284+06.7	13.9' RT	72"X48"	2	171.33	167.40
DI125	285+00.0	15.4' RT	72"X48"	2	172.83	170.00

*** MATCH EDGE OF BARRIER.
**** MATCH FLOWLINE OF BARRIER AND GUTTER.

SOIL BORING SCHEDULE

NO.	STATION	OFFSET	GRND EL.	ROCK ELEV.
OSWB-3	279+00.00	192.00	169.72	<158.6
RMP3-10	216+93.00	96.00	195.70	193.2
RMP3-10A	216+93.00	100.00	195.70	173.2

RIPRAP SCHEDULE

NO.	TYPE	AREA
RR 12	R-4	11 SY

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
P 13	18" RCP	IV	125	0.047	170.52	164.70
P 14	18" RCP	IV	44	0.032	164.50	163.10
P 15	18" RCP	IV	113	0.015	164.55	163.10
P 16	18" RCP	IV	13	0.045	163.55	163.10
P 17	18" RCP	IV	96	0.025	162.90	160.50
P 18	18" RCP	IV	100	0.027	160.30	157.64
P 122	18" RCP	IV	134	0.02	167.40	164.75
P 128	18" RCP	IV	91	0.026	170.00	167.60
P R84	18" RCP	IV	98'	0.097	178.00	168.50

BARRIER SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
13	P.C.C. BARRIER, MODIFIED	376.19
14	P.C.C. BARRIER, MODIFIED	378.08
15	SAFETY BARRIER, PERMANENT, SINGLE FACE	10.00

GUARDRAIL SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
7	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1	219+21.80	22	50
44	GUARDRAIL TO BARRIER CONNECTION (EXIT TYPE)	537+50.15	-4.03	14.23
45	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1	537+61.63	-4.03	150
46	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1	283+99.60	6	27.6
47	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1	284+19.47	6	1500
59	END ANCHORAGE	534+62.08	36	12.5

UNDERDRAIN SCHEDULE

NO.	SIZE / TYPE	LENGTH	DIS. TYPE	DIS. EL.
48	6" PERF. PVC	300.00	UD-88	N/A
49	6" PERF. PVC	300.00	UD-90	N/A
51	6" PERF. PVC	210.58	DI-15	**
52	6" PERF. PVC	113.39	DI-18	**
53	6" PERF. PVC	99.84	DI-19	**
54	6" PERF. PVC	100.78	DI-111	**
84	6" PVC*	10.75	OUTLET	TBD
85	6" PVC*	11.15	OUTLET	TBD
86	6" PVC*	8.75	OUTLET	TBD

* ALL OUTLET STRUCTURES USE NON-PERFORATED PVC PIPE.
** INVERT FOR CLOSED SYSTEM TO BE SET IN FIELD. REFER TO UNDERDRAIN DETAIL.

ROADWAY CORE SCHEDULE

NO.	STATION	OFFSET	DESCRIPTION
C#20	284+96.30	-37.82	3-1/4" ASPHALT OVER 9-3/4" PCC

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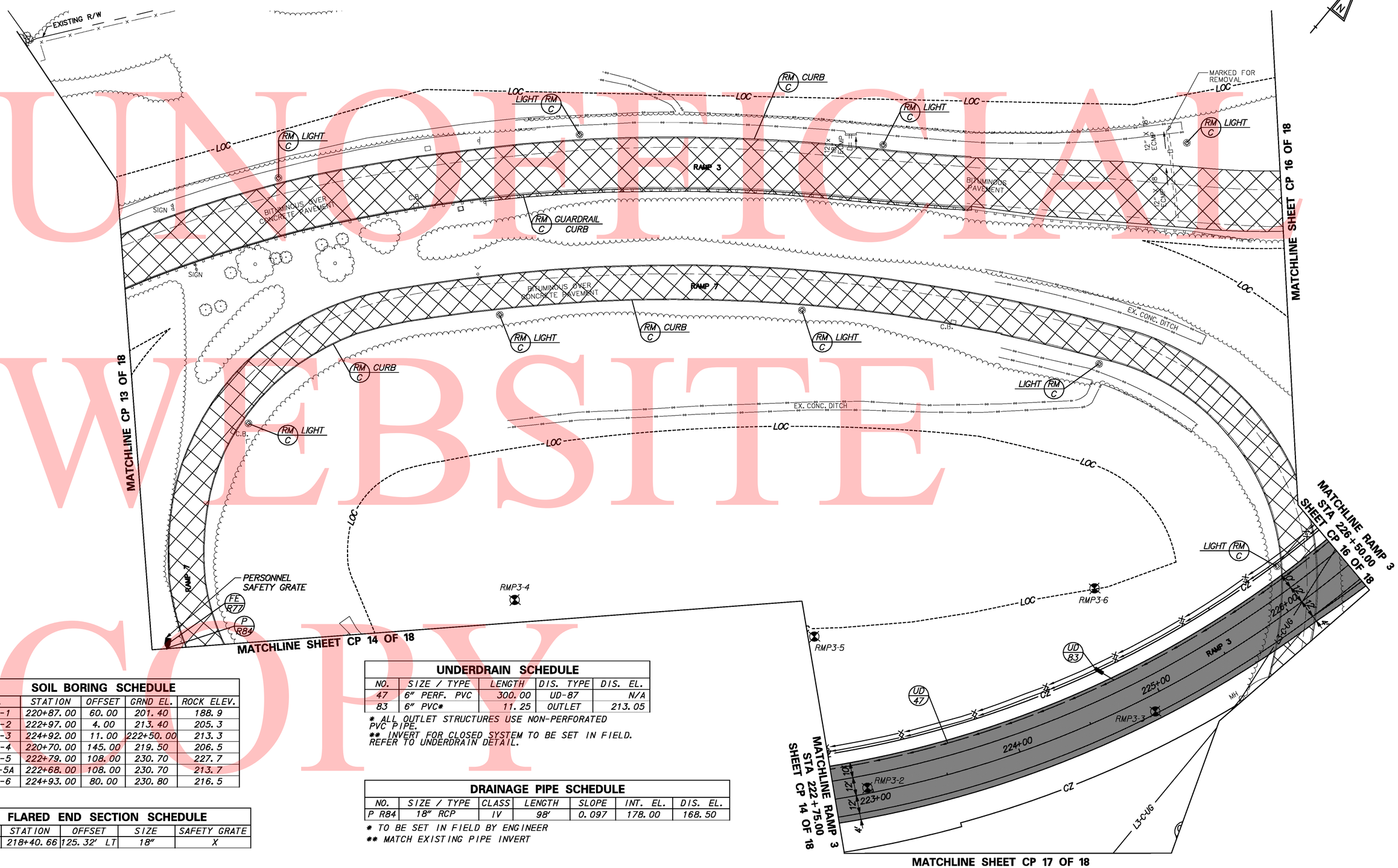

SOIL BORING SCHEDULE

NO.	STATION	OFFSET	GRND EL.	ROCK ELEV.
RMP3-1	220+87.00	60.00	201.40	188.9
RMP3-2	222+97.00	4.00	213.40	205.3
RMP3-3	224+92.00	11.00	222+50.00	213.3
RMP3-4	220+70.00	145.00	219.50	206.5
RMP3-5	222+79.00	108.00	230.70	227.7
RMP3-5A	222+68.00	108.00	230.70	213.7
RMP3-6	224+93.00	80.00	230.80	216.5

FLARED END SECTION SCHEDULE

NO.	STATION	OFFSET	SIZE	SAFETY GRATE
R77	218+40.66	125.32' LT	18"	X

UNDERDRAIN SCHEDULE

NO.	SIZE / TYPE	LENGTH	DIS. TYPE	DIS. EL.
47	6" PERF. PVC	300.00	UD-87	N/A
83	6" PVC*	11.25	OUTLET	213.05

* ALL OUTLET STRUCTURES USE NON-PERFORATED PVC PIPE.
** INVERT FOR CLOSED SYSTEM TO BE SET IN FIELD. REFER TO UNDERDRAIN DETAIL.

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
P R84	18" RCP	IV	98'	0.097	178.00	168.50

* TO BE SET IN FIELD BY ENGINEER
** MATCH EXISTING PIPE INVERT

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

I-95 & US 202 INTERCHANGE

CONTRACT	BRIDGE NO.	NA
T200510602	DESIGNED BY:	BMD
COUNTY		
NEW CASTLE	CHECKED BY:	DAG

CONSTRUCTION PLAN CP 15 OF 18

SHEET NO. 66
TOTAL SHTS. 482

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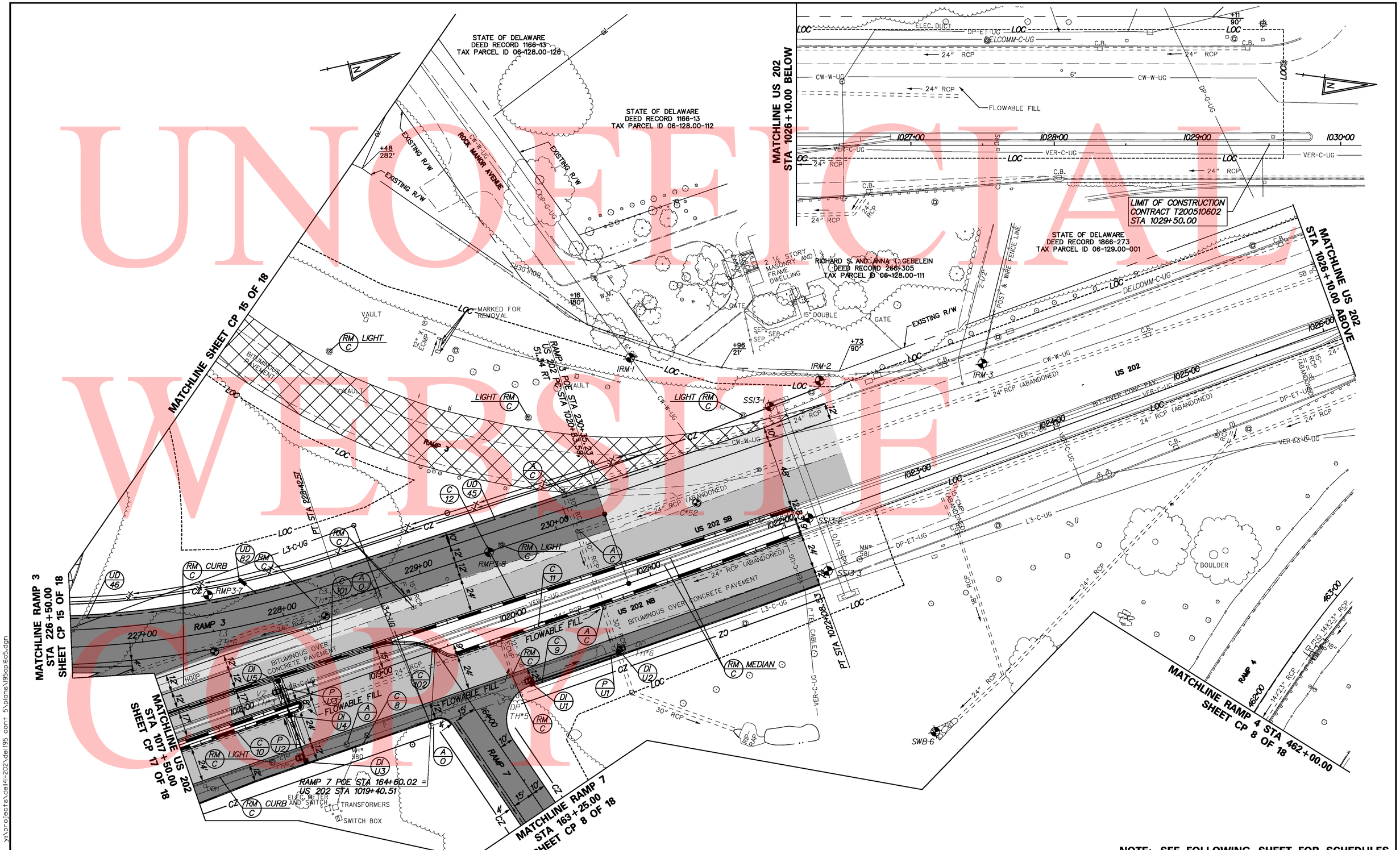

NOTE: SEE FOLLOWING SHEET FOR SCHEDULES

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	CONSTRUCTION PLAN CP 16 OF 18	SHEET NO. 67
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		

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12/10/2010

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
DIU1	1019+97.0	*	48"x30"	1	**	241.46
DIU2°	1020+61.0	*	48"x30"	1	**	240.25
DIU3	1018+30.0	*	48"x30"	1	**	233.70
DIU4°	1018+30.0	*	48"x30"	1	**	***
DIU5	1018+30.0	*	34"X24"	1	**	234.40

* MATCH PROPOSED CURBLINE
** MATCH FLOWLINE OF PROPOSED CURB AND GUTTER
*** MATCH INVERT OF EXISTING PIPE
° CAST IN PLACE

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
P U1	18" RCP	IV	65'	0.019	241.46	240.25
P U2	18" RCP	IV	35'	0.018	233.70	233.08
P U3	18" RCP	IV	25'	0.020	234.58	233.08

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
8	PORTLAND CEMENT CONCRETE CURB, TYPE 1	188.62
9	PORTLAND CEMENT CONCRETE CURB, TYPE 1	213.76
10	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL	187.48
11	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL	254.67
12	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL	294.35
101	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL*	164.03
102	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL*	211.03

UNDERDRAIN SCHEDULE

NO.	SIZE / TYPE	LENGTH	DIS. TYPE	DIS. EL.
45	6" PERF. PVC	300.00	UDO	233.70
46	6" PERF. PVC	300.00	UDO	211.88

UNDERDRAIN OUTLETS

NO.	LENGTH	DIS. EL.
82	16.00	233.65

NOTE: ALL OULET STRUCTURES USE NON-PERFORATED PVC PIPE.

ROADWAY CORE SCHEDULE

NO.	STATION	OFFSET	DESCRIPTION
C#52	1021+47.31	-37.48	16-1/2" ASPHALT

UTILITY TEST HOLE & MANHOLE SCHEDULE

POINT	STATION	OFFSET	ELEVATION	DEPTH	REMARKS
TH #578B	1011+09.83	38.87'	189.88	4.33'	2' X1.5' CONC DUCT BANK
TH #578A	1011+38.73	36.75'	187.09	3.64'	3.5' X1' CONC DUCT BANK
L3 TH#4	1013+62.25	-100.03'	184.65	6.5'	4' X3' (12) 1.5" DUCTS
TH #579B	1014+62.22	41.84'	217.24	5.01'	2' X2' CONC DUCT BANK
TH #579A	1014+93.32	38.96'	214.84	2.8'	3.5' X1' CONC DUCT BANK
DP TH#3	1016+88.43	41.46'	230.04	5.16'	2' CONC DUCT BANK
VZ TH#2	1016+88.58	-9.19'	230.82	4.82'	2' CONC DUCT BANK
L3 TH#5	1016+92.05	-45.98'	230.32	3.5'	4' X3' (12) 1.5" DUCTS

SOIL BORING SCHEDULE

NO.	STATION	OFFSET	GRND EL.	ROCK ELEV.
1RM-1	1021+38.00	145.00	254.90	241.9
1RM-2	1022+57.00	85.00	256.40	248.4
RMP3-7	227+51.00	26.00	237.40	<227.4
RMP3-8	229+50.00	0.00	248.20	<238.2
SS13-1	1022+19.00	83.00	253.00	240.6
SS13-2	1022+17.00	1.00	255.50	<235.5
SS13-3	1022+17.00	40.00	255.20	241.6

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NOTE: SEE FOLLOWING SHEET FOR SCHEDULES

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. BR 1-570	CONSTRUCTION PLAN CP 17 OF 18	SHEET NO. 69
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		

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12/10/2010

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
DIU6	1017+05.0	*	72"x24"	1	**	225.85
DIU7°	1017+05.0	*	48"x30"	1	**	***
DIU8	1017+05.0	*	34"x24"	1	**	226.95
DIU9	1014+56.8	54.4' RT	34"x24"	2	212.30	208.50
DIU10	1014+56.8	*	34"x24"	1	**	208.05
DIU11	1014+56.8	*	48"x30"	1	**	***
DI11	289+84.5	*	48"x30"	2	**	179.75
DI120	289+83.9	63.1 LT	72"x24"	2	187.31	181.00
DI123	288+01.3	*	48"x30"	2	**	179.85
DIR81	14+48.1	*	48"x30"	2	185.98	181.40

* MATCH PROPOSED CURBLINE
** MATCH FLOWLINE OF PROPOSED CURB AND GUTTER
*** MATCH EXISTING PIPE INVERT
° CAST IN PLACE

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
P U4	18" RCP	IV	38	0.016	225.85	225.25
P U5	18" RCP	IV	25	0.018	226.95	226.50
P U7	18" RCP	IV	11	0.023	208.50	205.25
P U8	18" RCP	IV	29	0.007	208.05	207.50
P U9	24" RCP	IV	17	0.012	206.50	206.20
P U13	See Detail				206.00	179.00
P 11	18" RCP	IV	68	0.0257	179.75	178.00
P 120	18" RCP	IV	17	0.0607	181.00	180.15
P 12	24" RCP	IV	71	0.012	172.50	171.50
P 123	18" RCP	IV	20	0.0175	179.85	179.5
P R81	18" RCP	IV	124	0.012	181.40	180.15

FLARED END SECTION SCHEDULE

NO.	STATION	OFFSET	SIZE
FE 11	289+87.6	26.7' RT	18"

MANHOLE SCHEDULE

NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
MHU7°	1014+57.0	47.6' LT	66"x 66"	214.15	206.50
MHU13	1014+57.0	60.5' LT	48"x30"	213.30	206.00

° CAST IN PLACE

RIPRAP SCHEDULE

NO.	TYPE	AREA
RR 11	R-4	12 SY
RR U13	R-4	45 SY

BARRIER SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
16	SAFETY BARRIER, PERMANENT, SINGLE FACE	357.81

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
13	PORTLAND CEMENT CONCRETE CURB, TYPE 3	99.92
14	PORTLAND CEMENT CONCRETE CURB, TYPE 3	181.66
15	PORTLAND CEMENT CONCRETE CURB, TYPE 1	121.86
16	PORTLAND CEMENT CONCRETE CURB, TYPE 3	99.00
17	PORTLAND CEMENT CONCRETE CURB, TYPE 3	30.80
18	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL	700.00
19	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL	700.19
20	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, SPECIAL*	106.28
103	PORTLAND CEMENT CONCRETE CURB, TYPE 1	22.54

GUARDRAIL SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
17	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1	543+14.31	47.95	287.5
48	GUARDRAIL END TREATMENT ATTENUATOR, TYPE1	1010+97.19	41	50
49	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 2	1011+52.15	38.96	26.8125
50	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 2	1014+12.86	-51.26	26.8125
51	GUARDRAIL END TREATMENT ATTENUATOR, TYPE1	1014+38.17	-51.26	50
60	GUARDRAIL TO BARRIER CONNECTION (EXIT TYPE)	1014+24.67	38.83	14.23
61	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1	1014+45.29	39.16	150
62	END ANCHORAGE	1+48.31	4.28	12.5
90	GUARDRAIL TO BARRIER CONNECTION (EXIT TYPE)	1011+59.98	-52.33	14.23
91	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1	1011+48.51	-53.2	75
92	END ANCHORAGE	181+35.36	0.89	12.5

UNDERDRAIN SCHEDULE

NO.	SIZE / TYPE	LENGTH	DIS. TYPE	DIS. EL.
29	6" PERF. PVC	123.41	INLET	*
50	6" PERF. PVC	129.22	UDO	174.34

* INVERT FOR CLOSED SYSTEM TO BE SET IN FIELD.
REFER TO UNDERDRAIN DETAIL.

ROADWAY CORE SCHEDULE

NO.	STATION	OFFSET	DESCRIPTION
C#21	289+95.95	-18.04	8" ASPHALT
C#46	2+46.29	-9.07	2-1/2" ASPHALT OVER 11" PCC 2"SC
C#51	1011+22.39	-34.38	2-1/4" ASPHALT OVER 7" PCC

UTILITY TEST HOLE & MANHOLE SCHEDULE

POINT	STATION	OFFSET	ELEVATION	DEPTH	REMARKS
L3 TH#6	1017+94.74	-49.65'	235.57	3.6'	4' X3' (12) 1.5" DUCTS
VZ TH#3	1018+26.42	-8.84'	238.44	4.3'	2' CONC DUCT BANK
DP TH#4	1018+26.71	39.83'	237.72	5.08'	2' CONC DUCT BANK
L3 TH#7	1018+76.14	-47.84'	239.37	3'	4' X3' (12) 1.5" DUCTS
DP TH#5	1019+95.39	41.30'	246.09	4.08'	2' CONC DUCT BANK
DP TH#6	1020+63.71	41.33'	248.85	3.69'	2' X2' CONC DUCT BANK

SOIL BORING SCHEDULE

NO.	STATION	OFFSET	GRND EL.	ROCK ELEV.
195-1	287+50.00	10.00	181.19	176.2
195-2	288+50.00	5.00	182.46	175.5
195-3	289+50.00	5.00	183.41	180.9
195-4	290+50.00	12.00	185.11	182.1
195-5	291+50.00	15.00	186.54	<173.0
SS5-1	1011+00.00	65.00	186.27	166.3
SS8-1	1015+60.00	55.00	220.14	215.7

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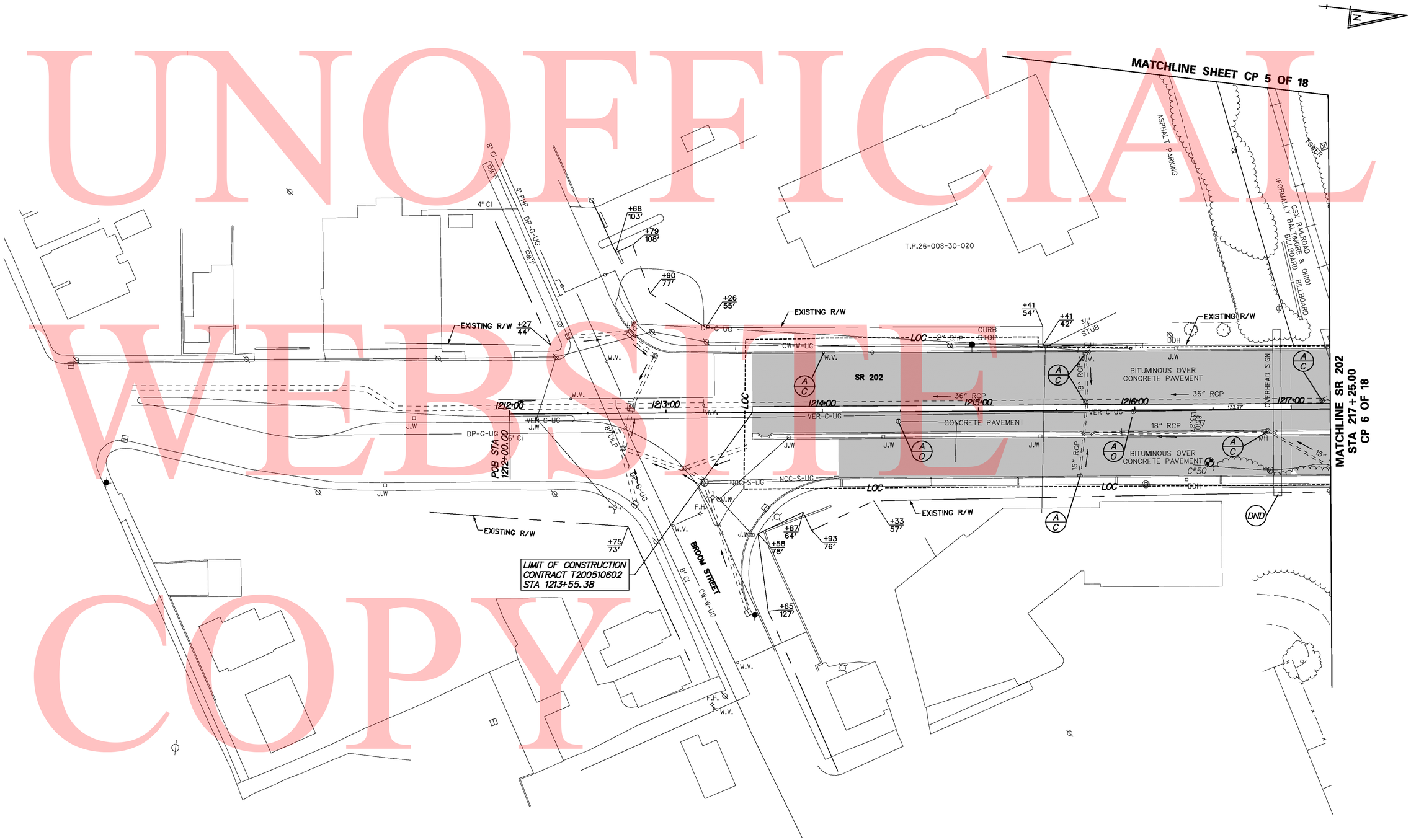
ROADWAY CORE SCHEDULE			
NO.	STATION	OFFSET	DESCRIPTION
C#50	1216+47.48	33.63	10" PCC



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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	CONSTRUCTION PLAN CP 18 OF 18	SHEET NO. 71
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		

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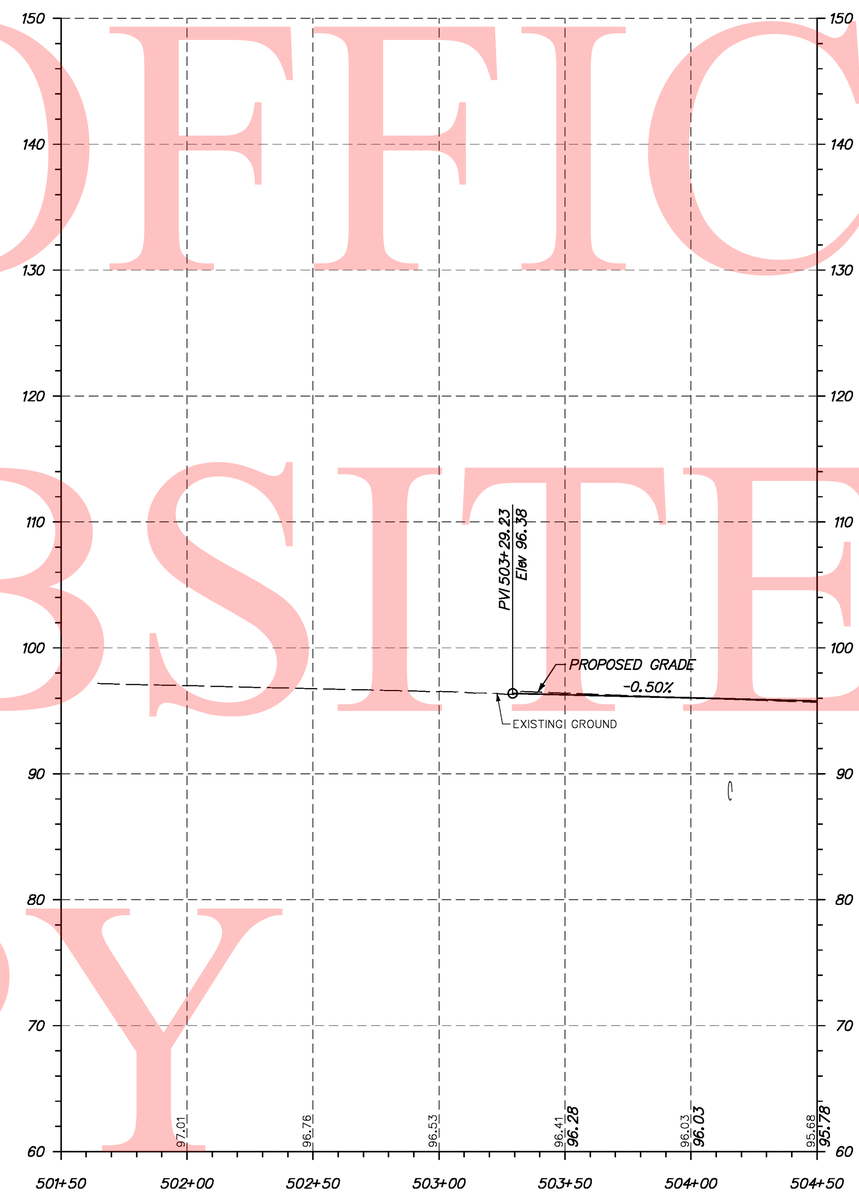

I-95 NORTHBOUND

VERTICAL SCALE FEET 0 6 12 18

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 1 OF 44	SHEET NO. 72
				COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
					CHECKED BY: BMD		

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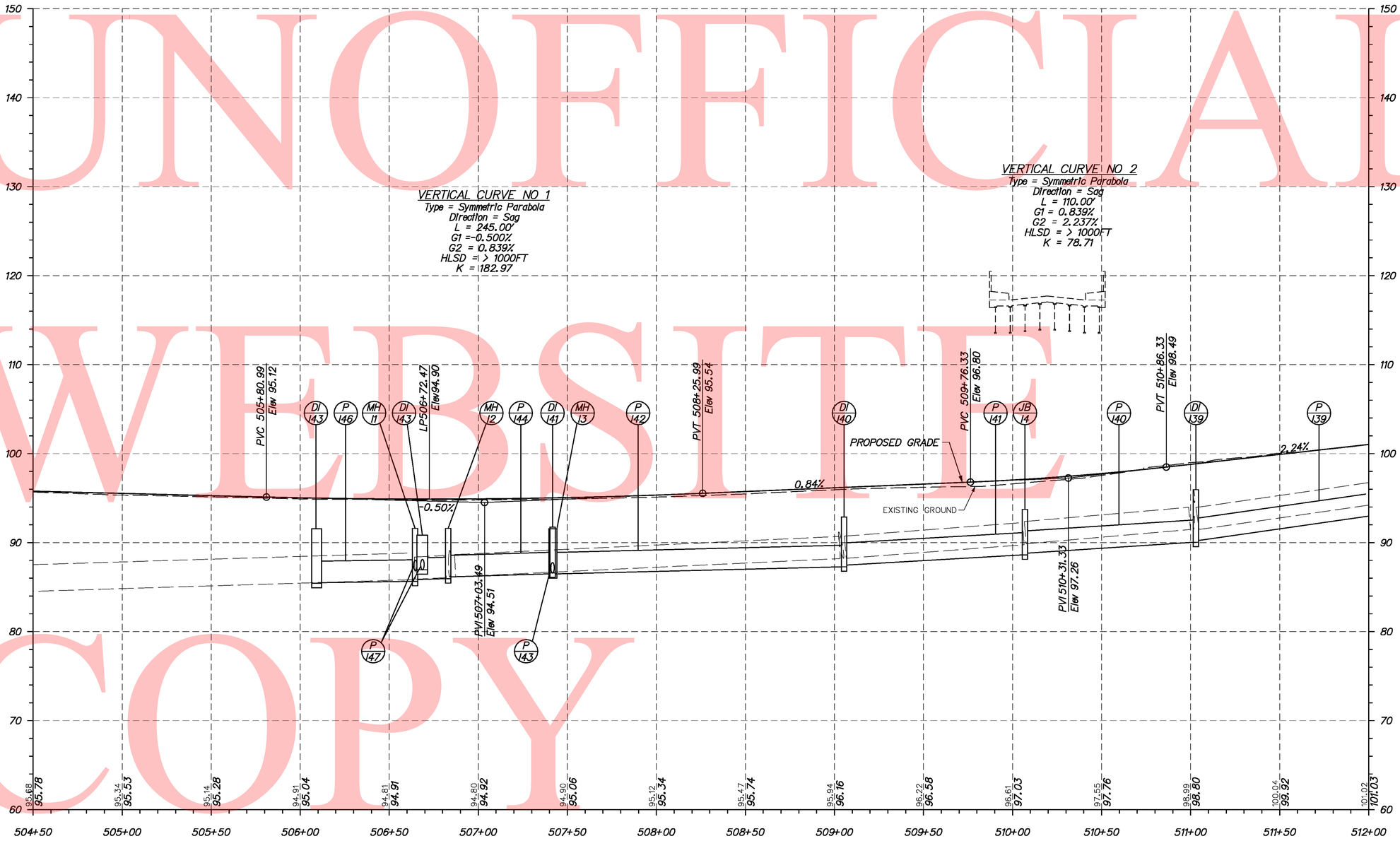

VERTICAL SCALE FEET 0 6 12 18

I-95 NORTHBOUND

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 2 OF 44	SHEET NO. 73
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					CHECKED BY: BMD		

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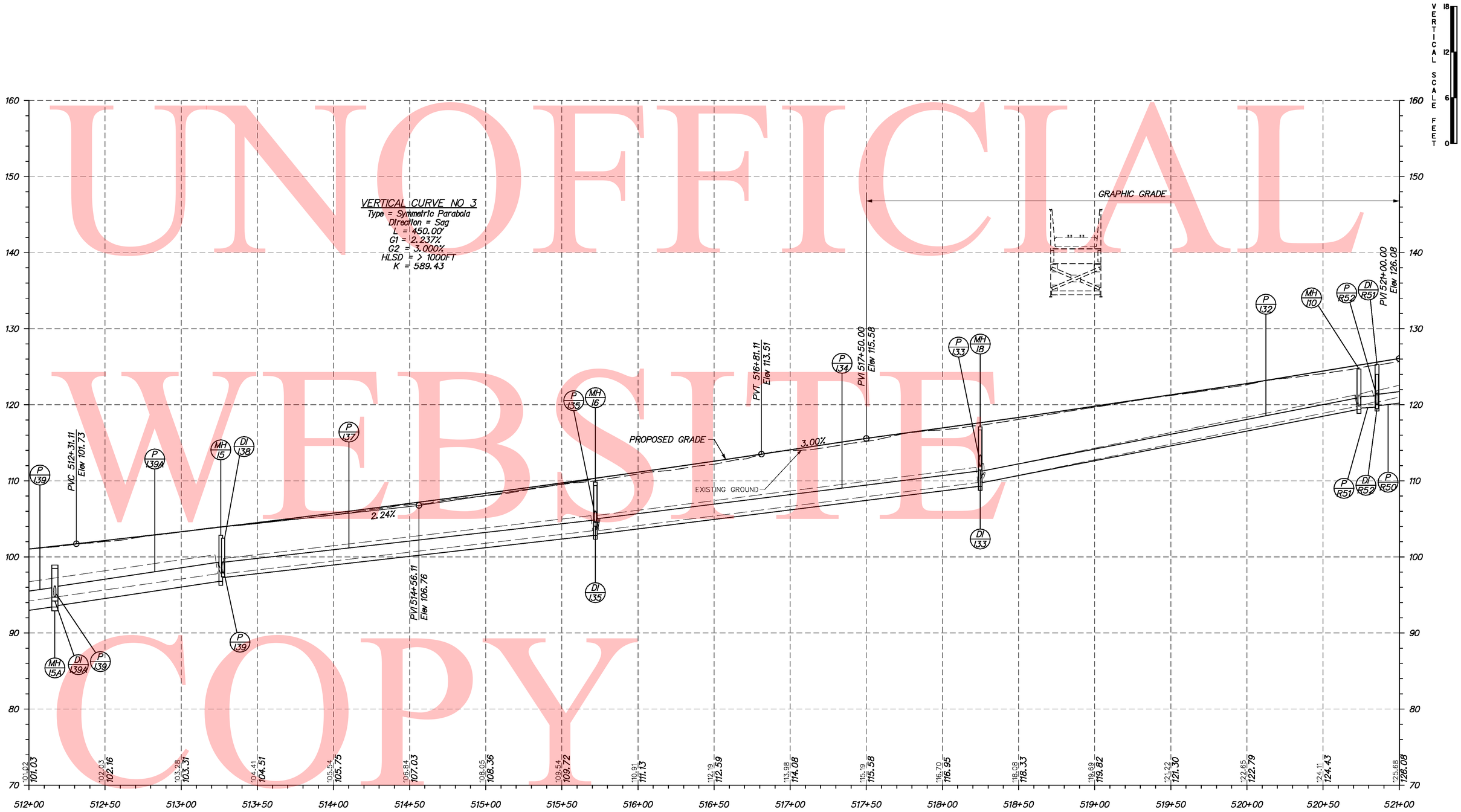

I-95 NORTHBOUND

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 3 OF 44	SHEET NO. 74
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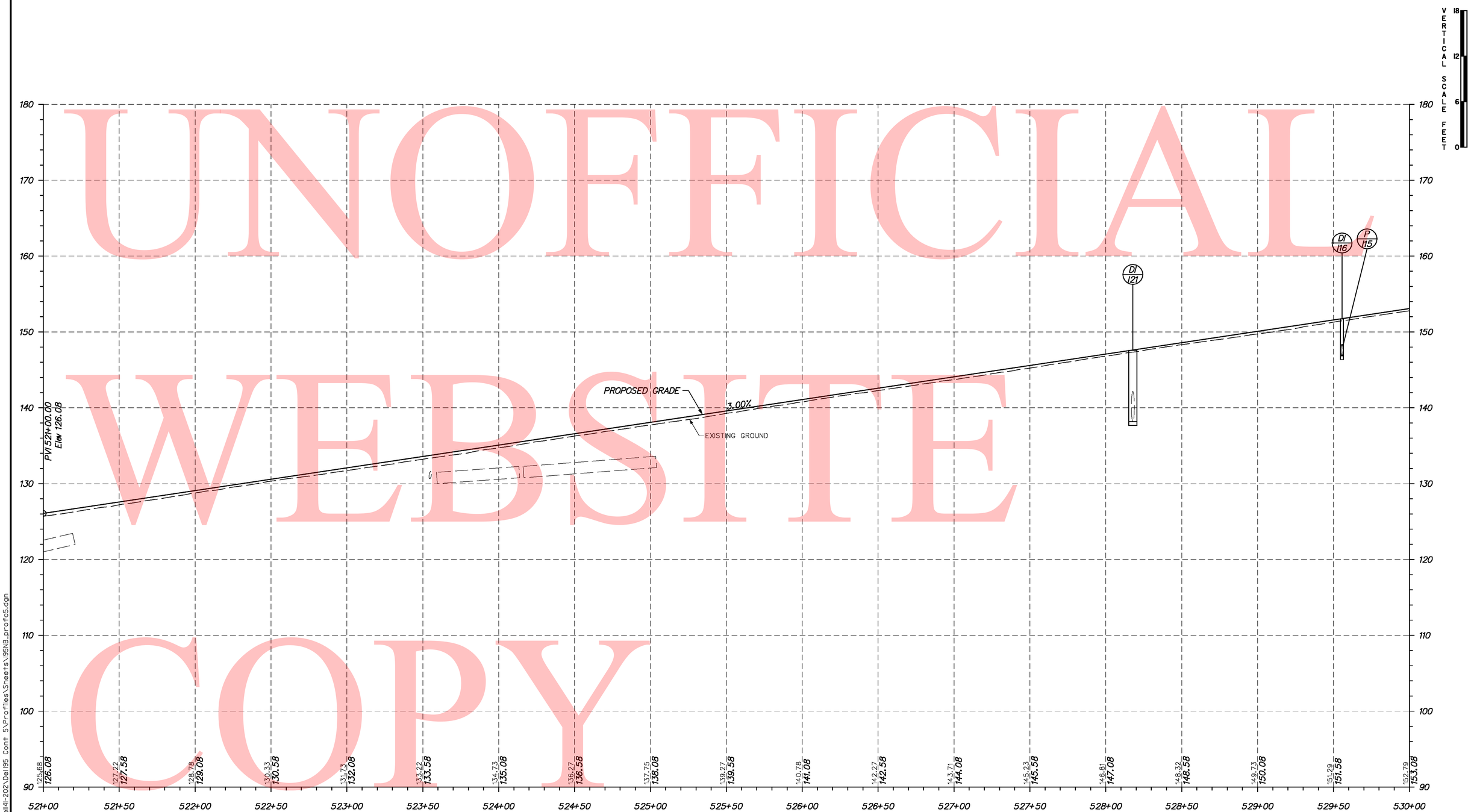

I-95 NORTHBOUND

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 4 OF 44	SHEET NO. 75
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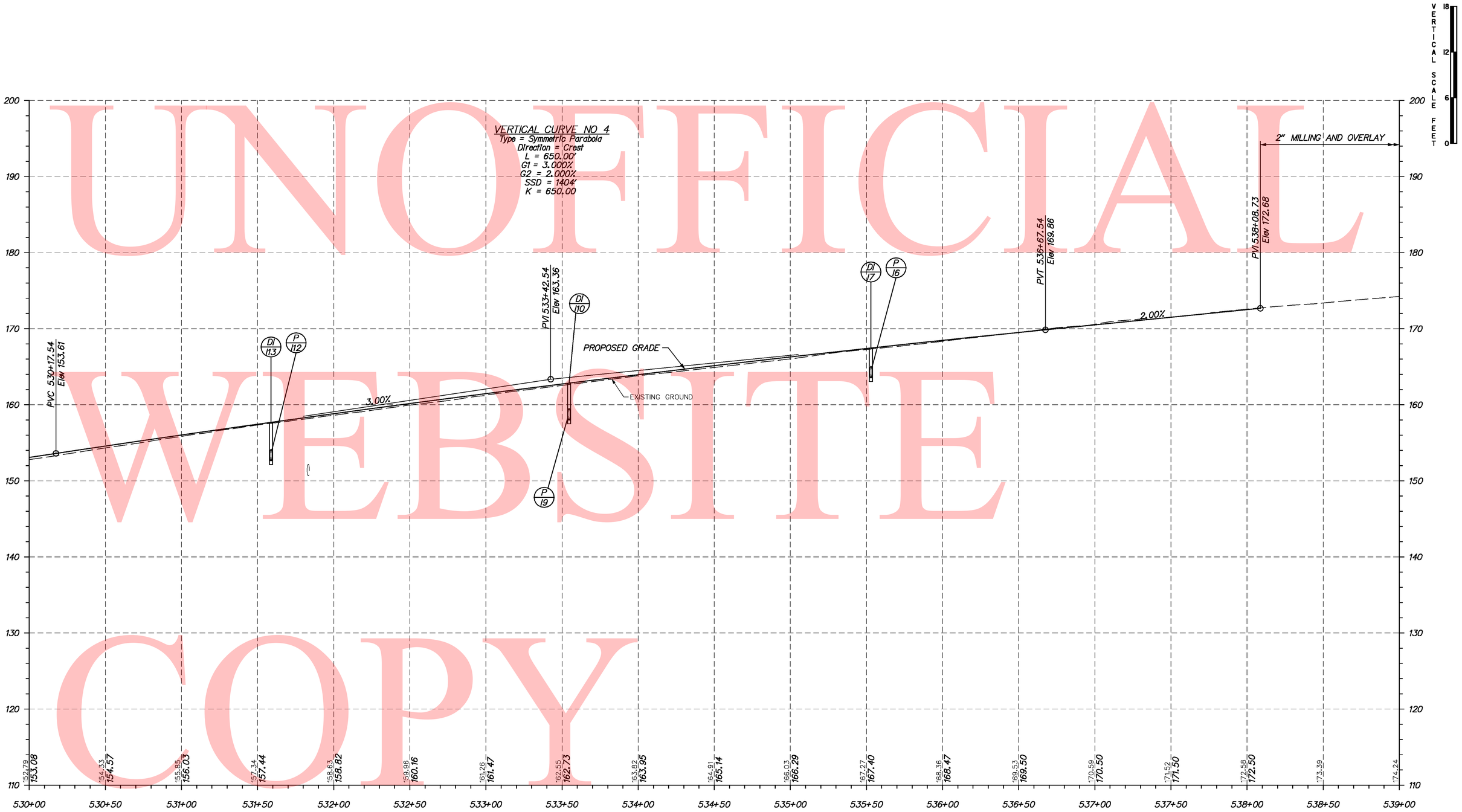

I-95 NORTHBOUND

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 5 OF 44	SHEET NO. 76
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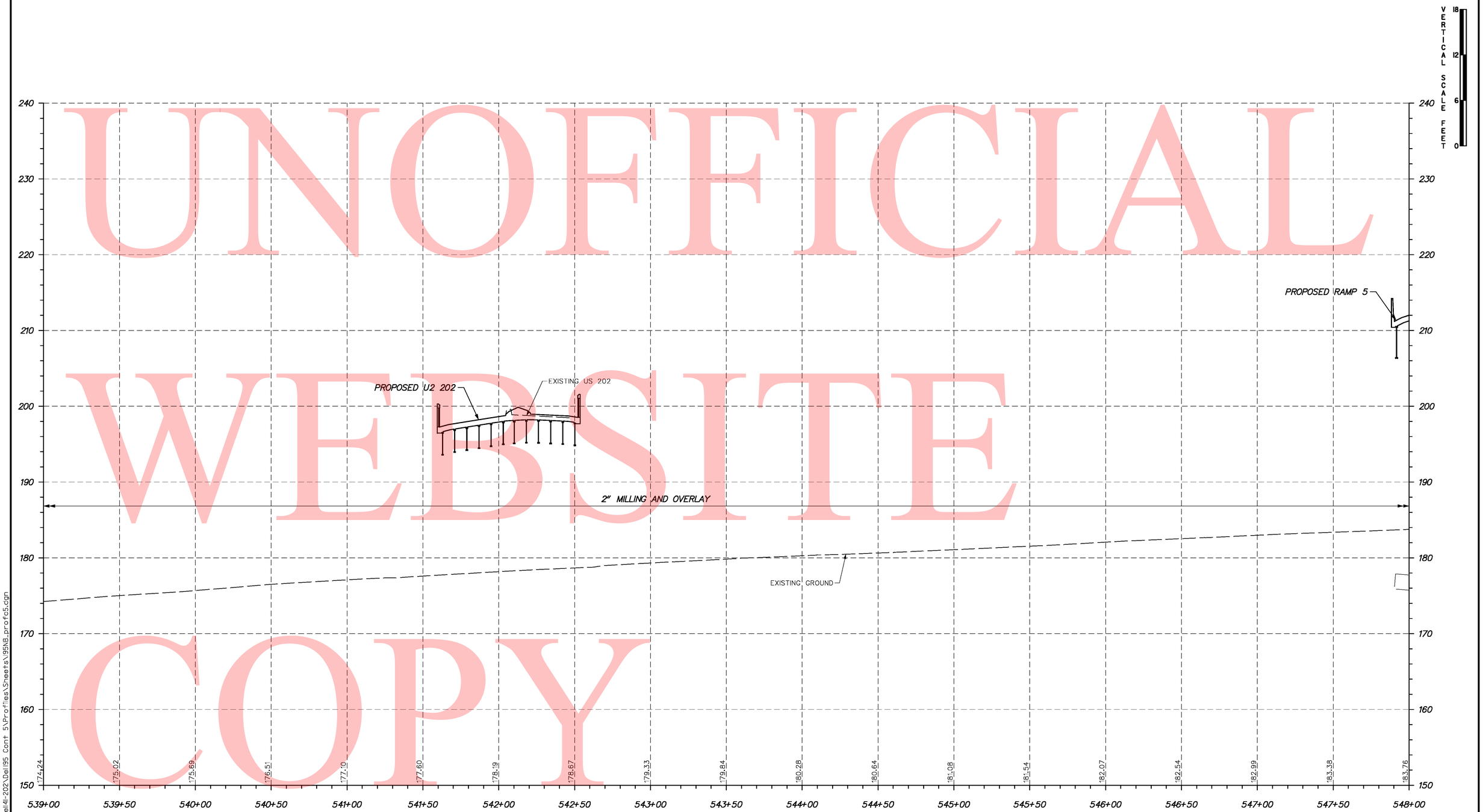

I-95 NORTHBOUND

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 6 OF 44	SHEET NO. 77
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					CHECKED BY: BMD		

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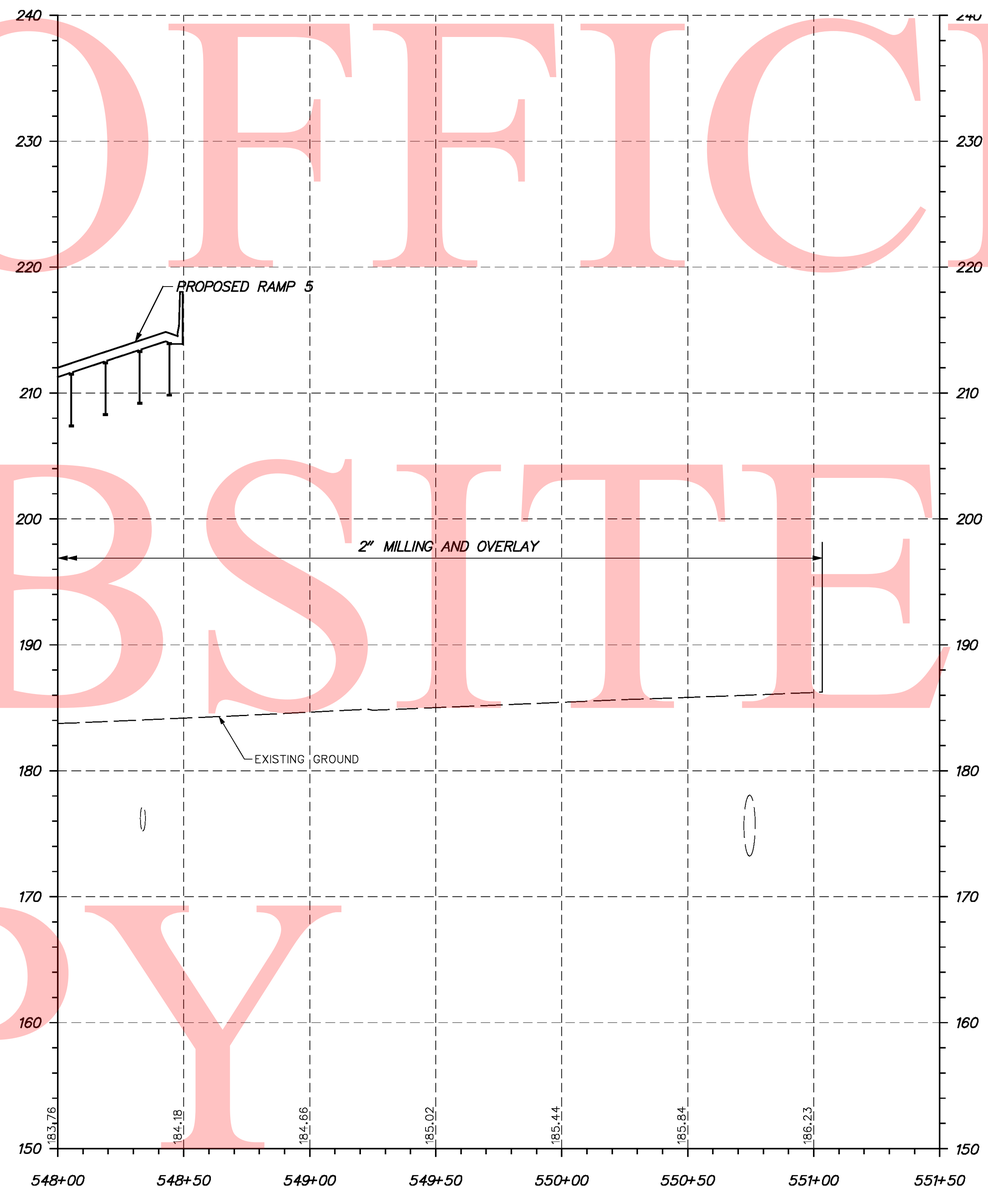

VERTICAL SCALE FEET 0 6 12 18

I-95 NORTHBOUND

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 7 OF 44	SHEET NO. 78
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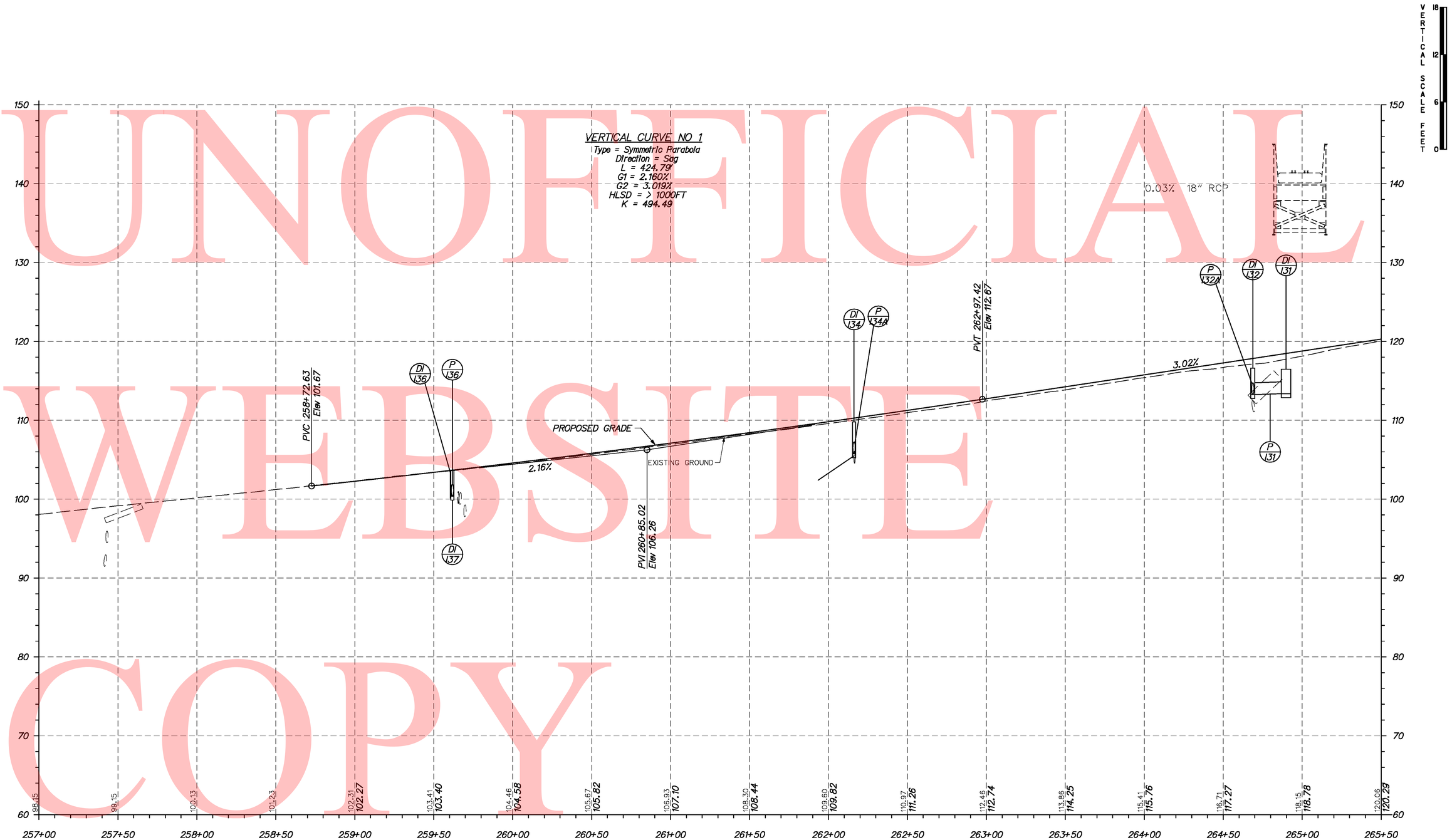

I-95 SOUTHBOUND

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 8 OF 44	SHEET NO. 79
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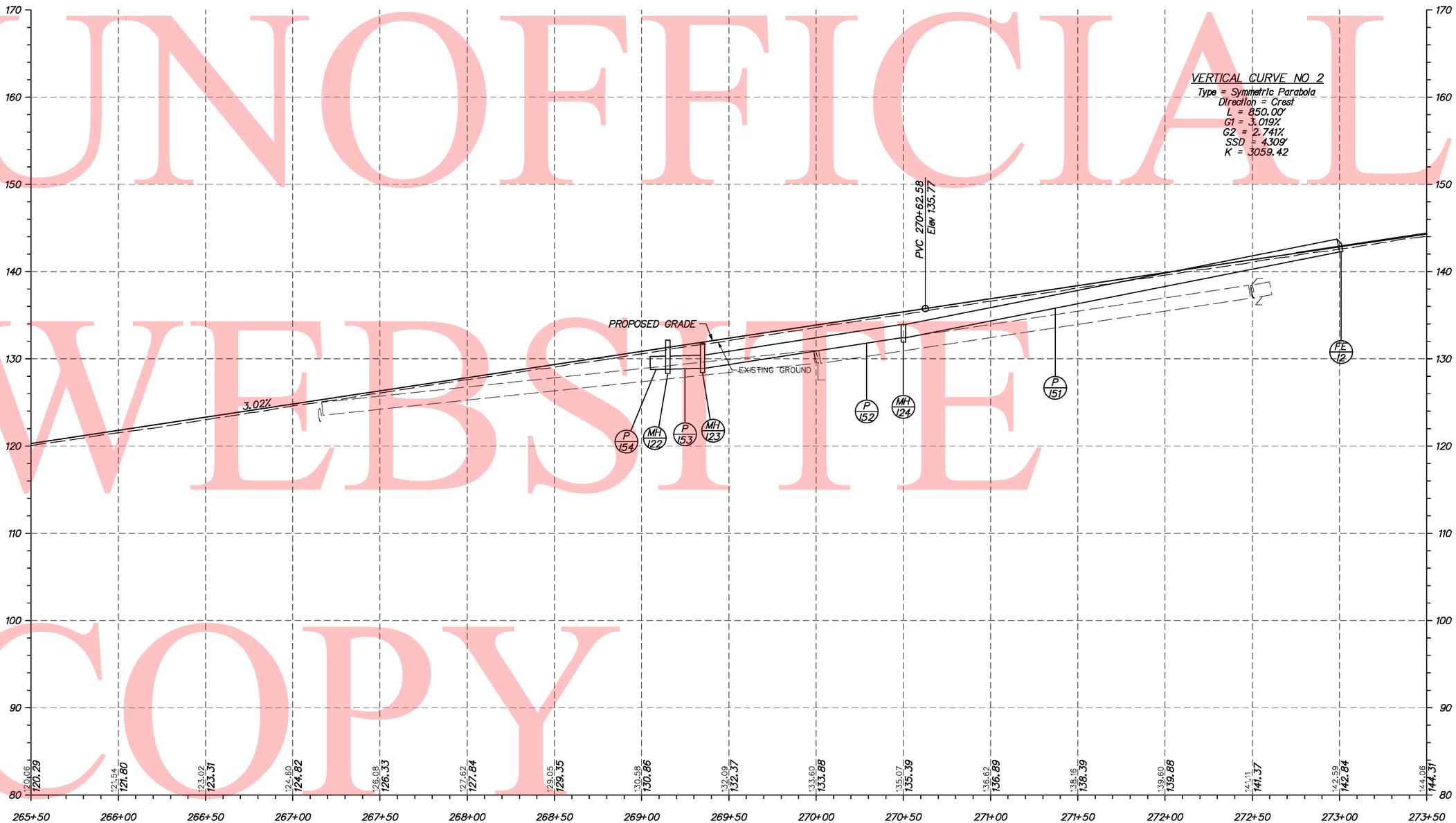

VERTICAL SCALE FEET 0 6 12 18

I-95 SOUTHBOUND

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 9 OF 44	SHEET NO. 80
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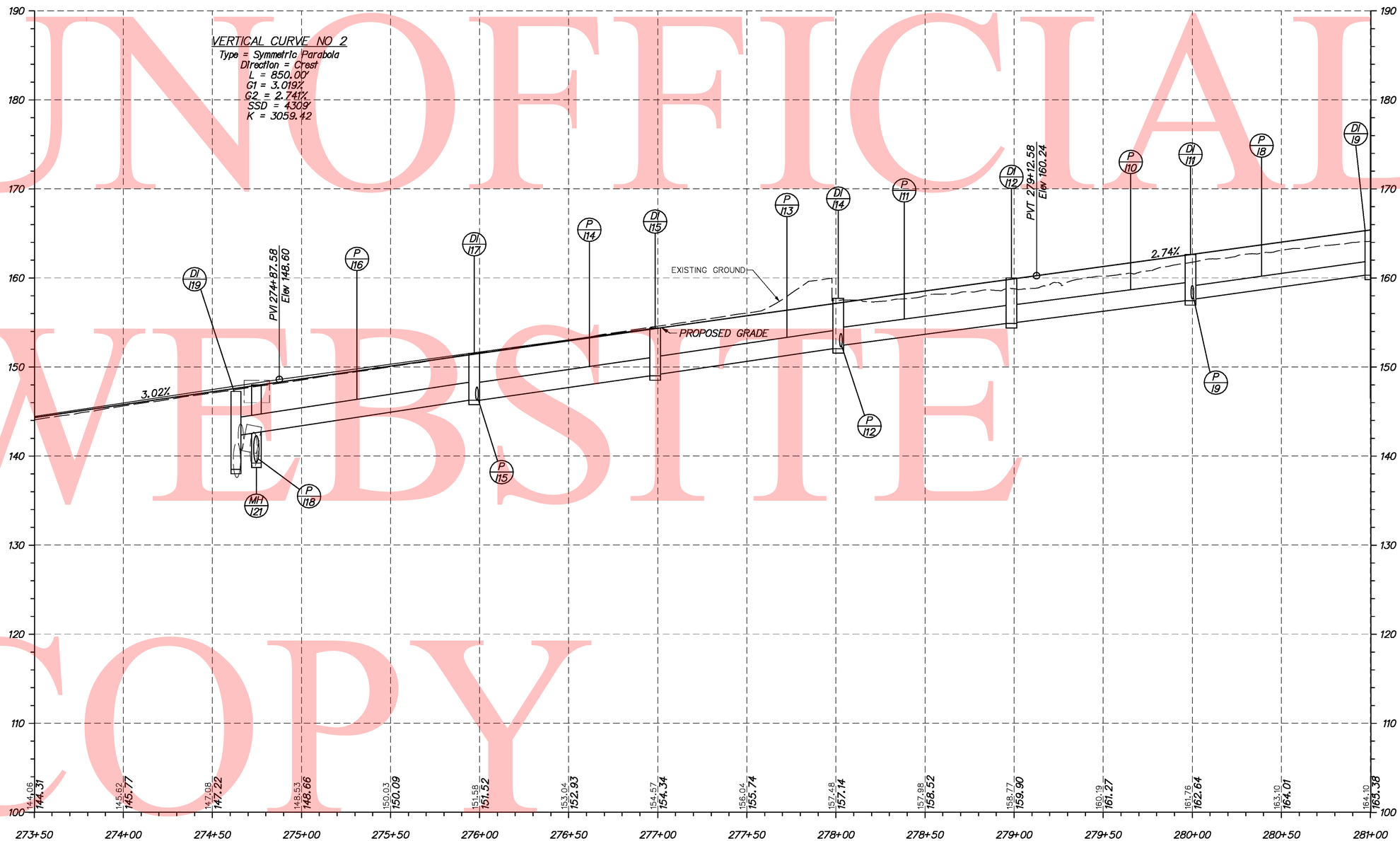

VERTICAL SCALE FEET 0 6 12 18

I-95 SOUTHBOUND

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 10 OF 44	SHEET NO. 81
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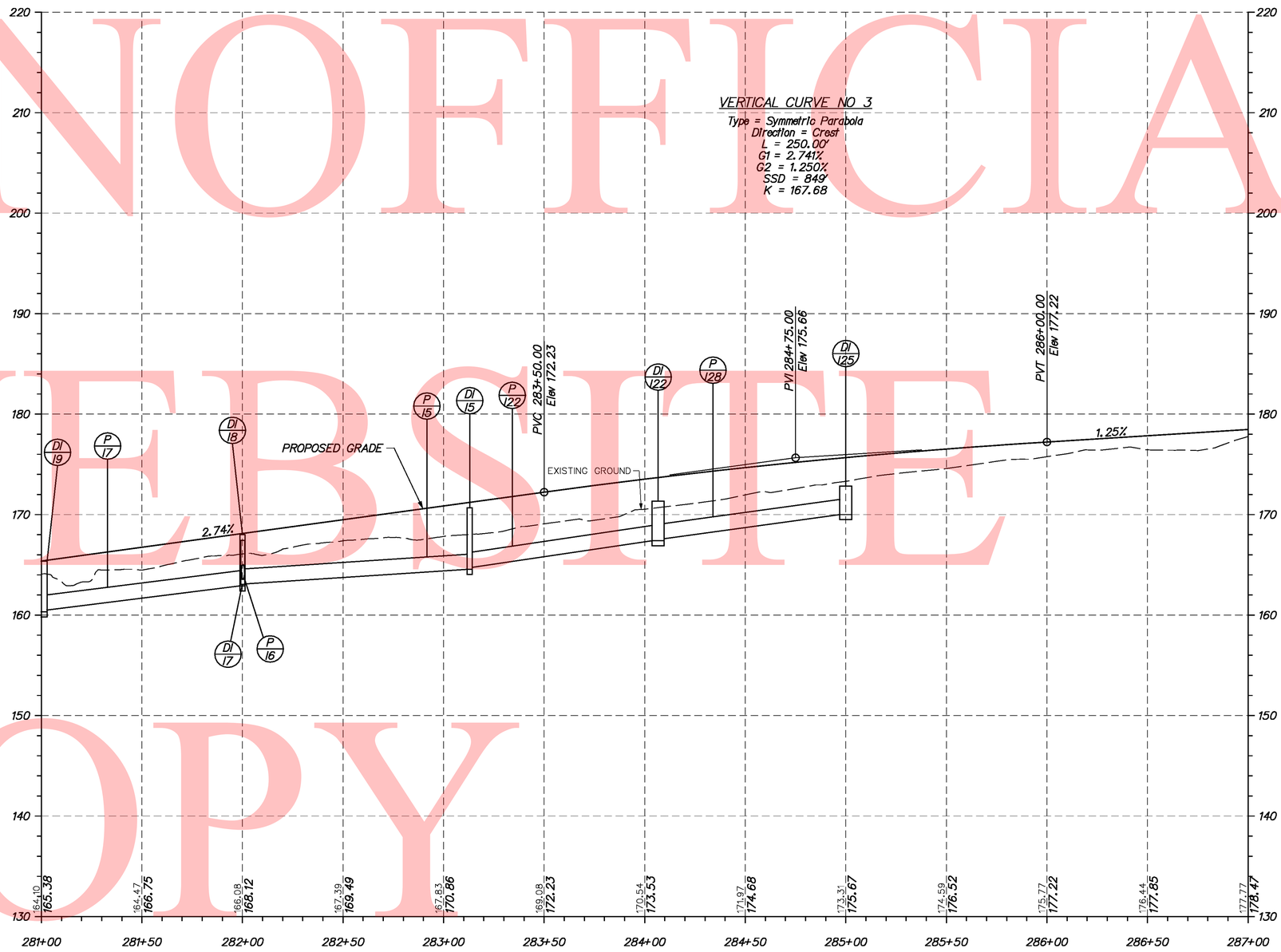
VERTICAL SCALE FEET 0 6 12 18



I-95 SOUTHBOUND

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 11 OF 44	SHEET NO. 82
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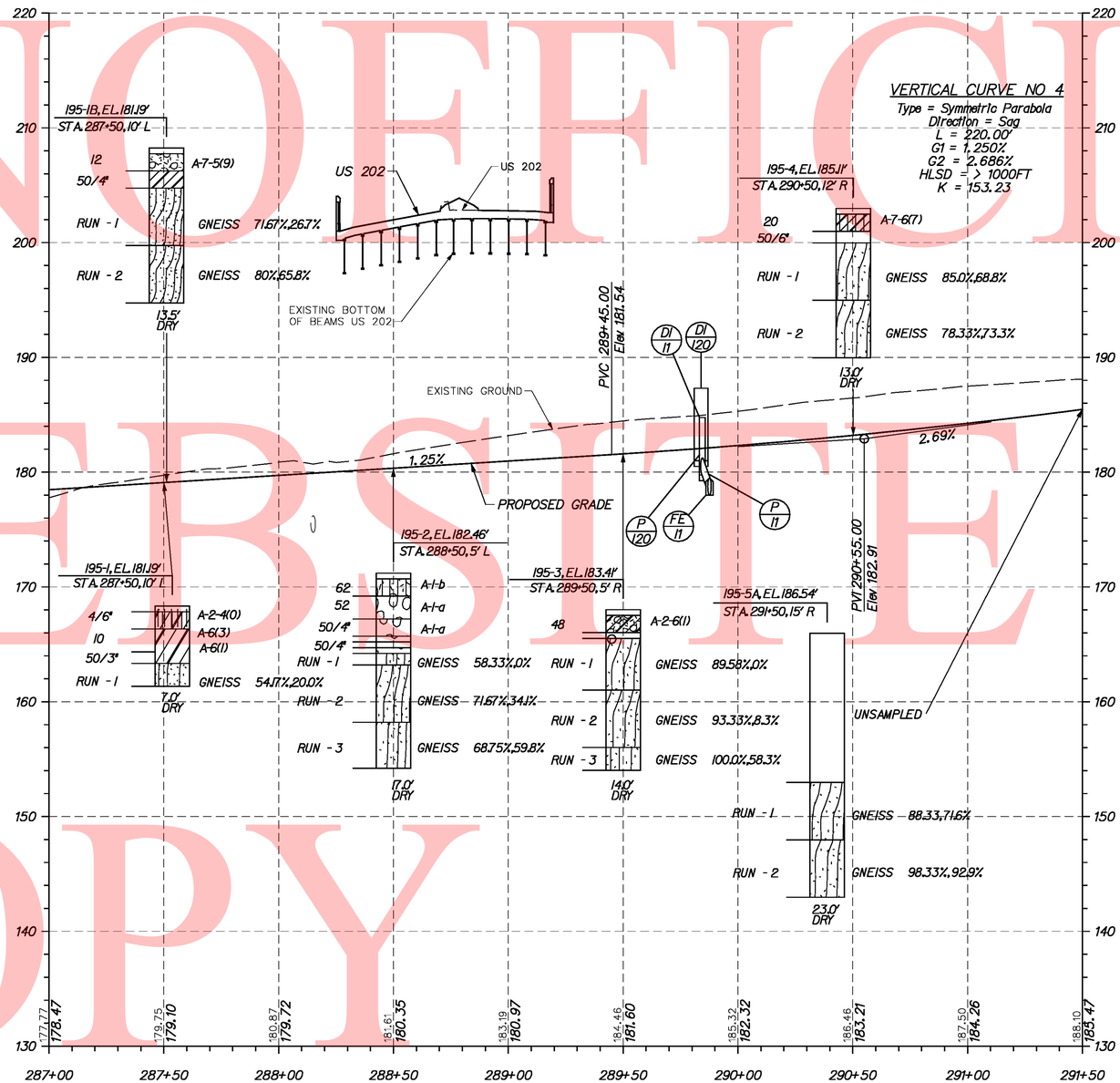

I-95 SOUTHBOUND

VERTICAL SCALE FEET 18 12 6 0

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 12 OF 44	SHEET NO. 83
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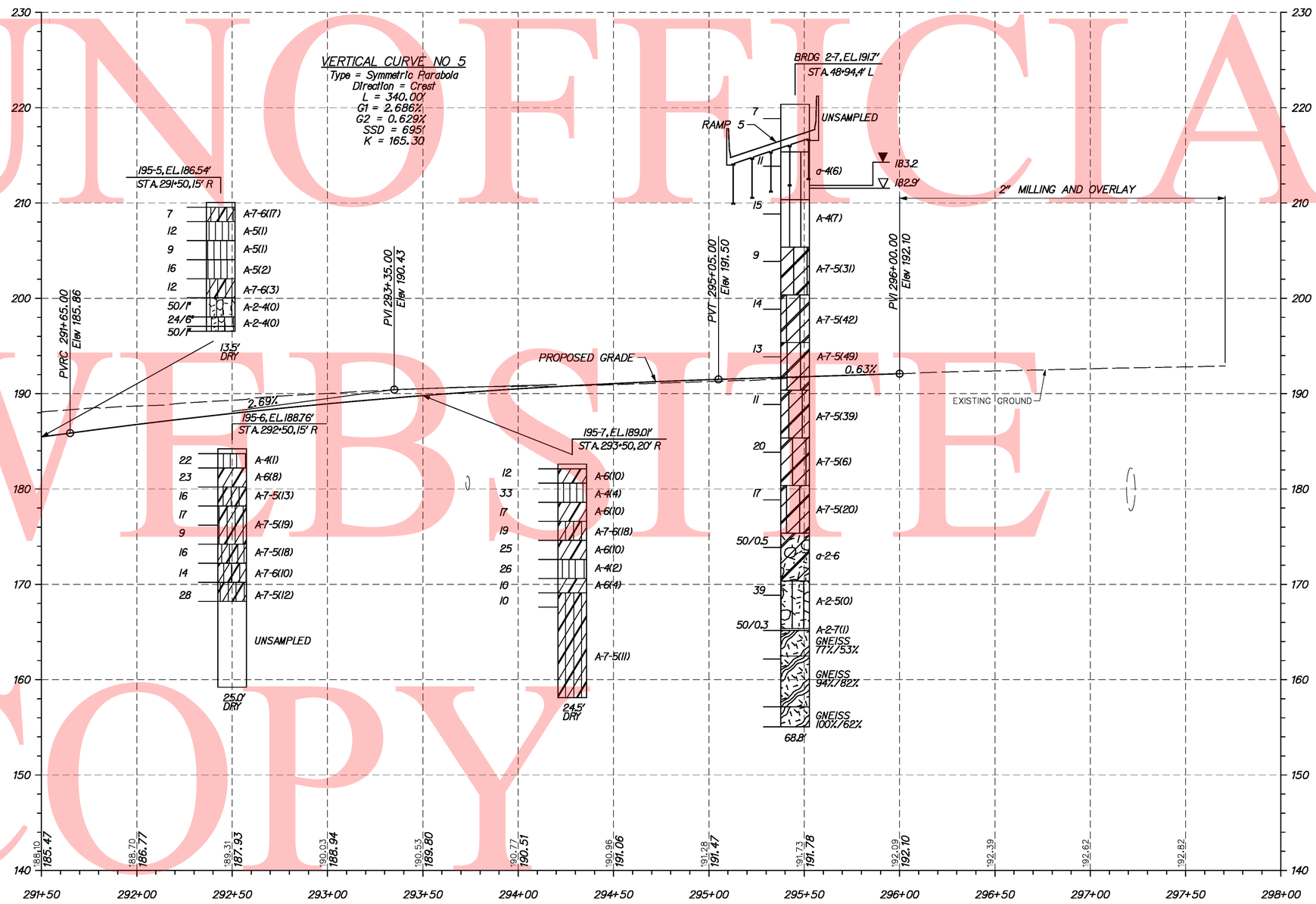

I-95 SOUTHBOUND

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 13 OF 44	SHEET NO. 84
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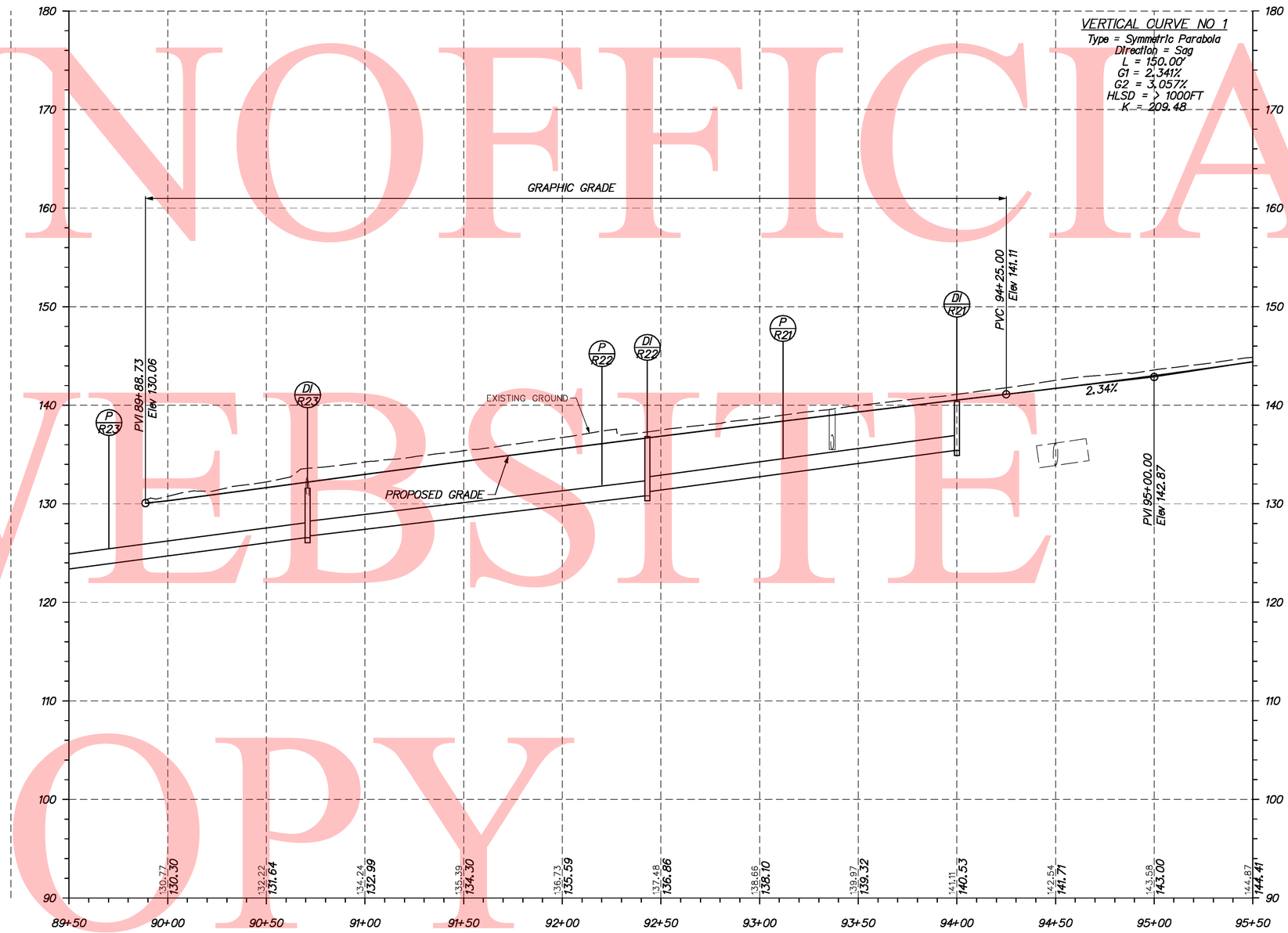
					CHECKED BY: BMD		



VERTICAL SCALE FEET 0 6 12 18

RAMP 2

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 14 OF 44	SHEET NO. 85
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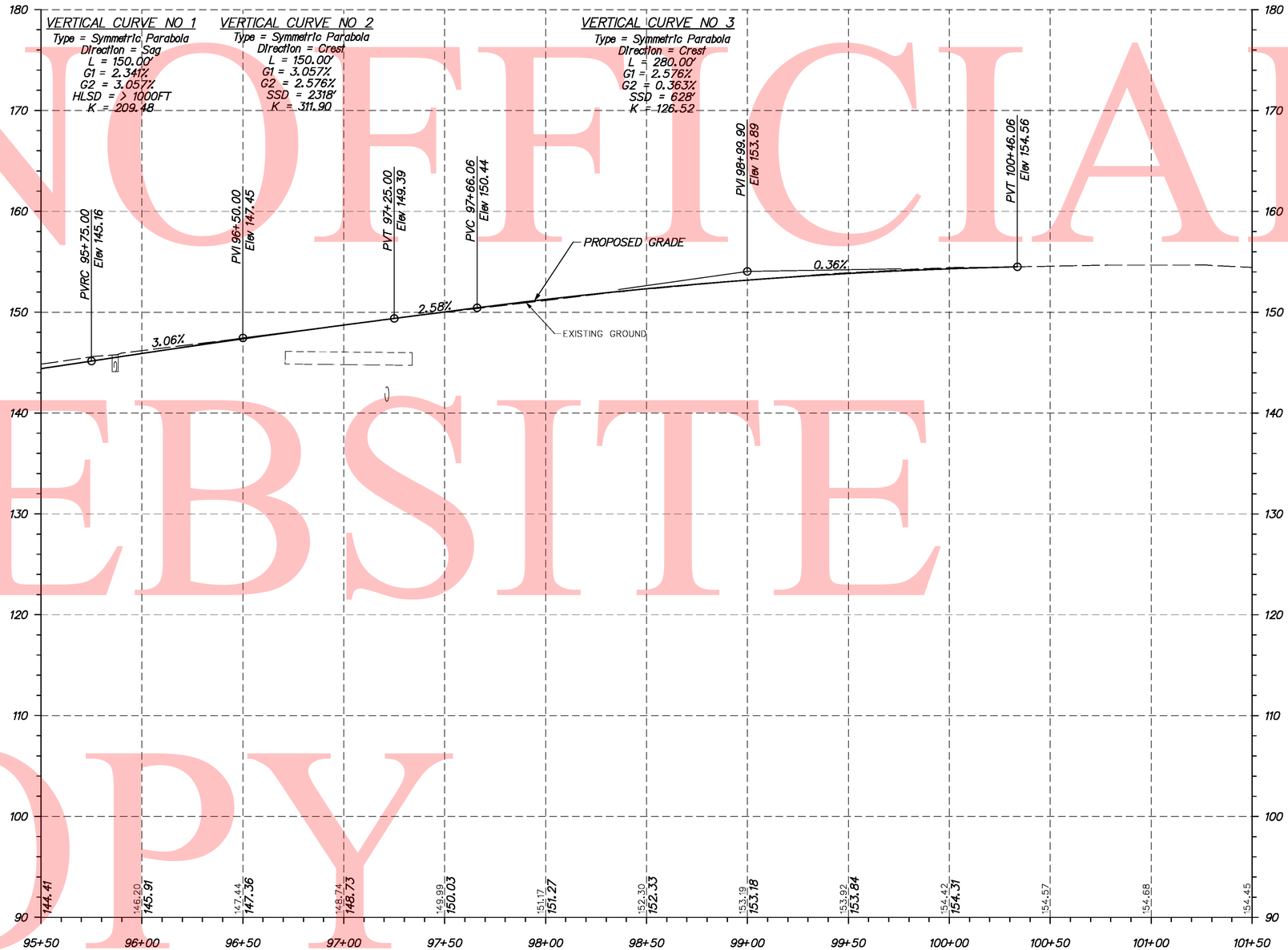

RAMP 2

VERTICAL SCALE FEET 0 6 12 18

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 15 OF 44	SHEET NO. 86
				COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
					CHECKED BY: BMD		

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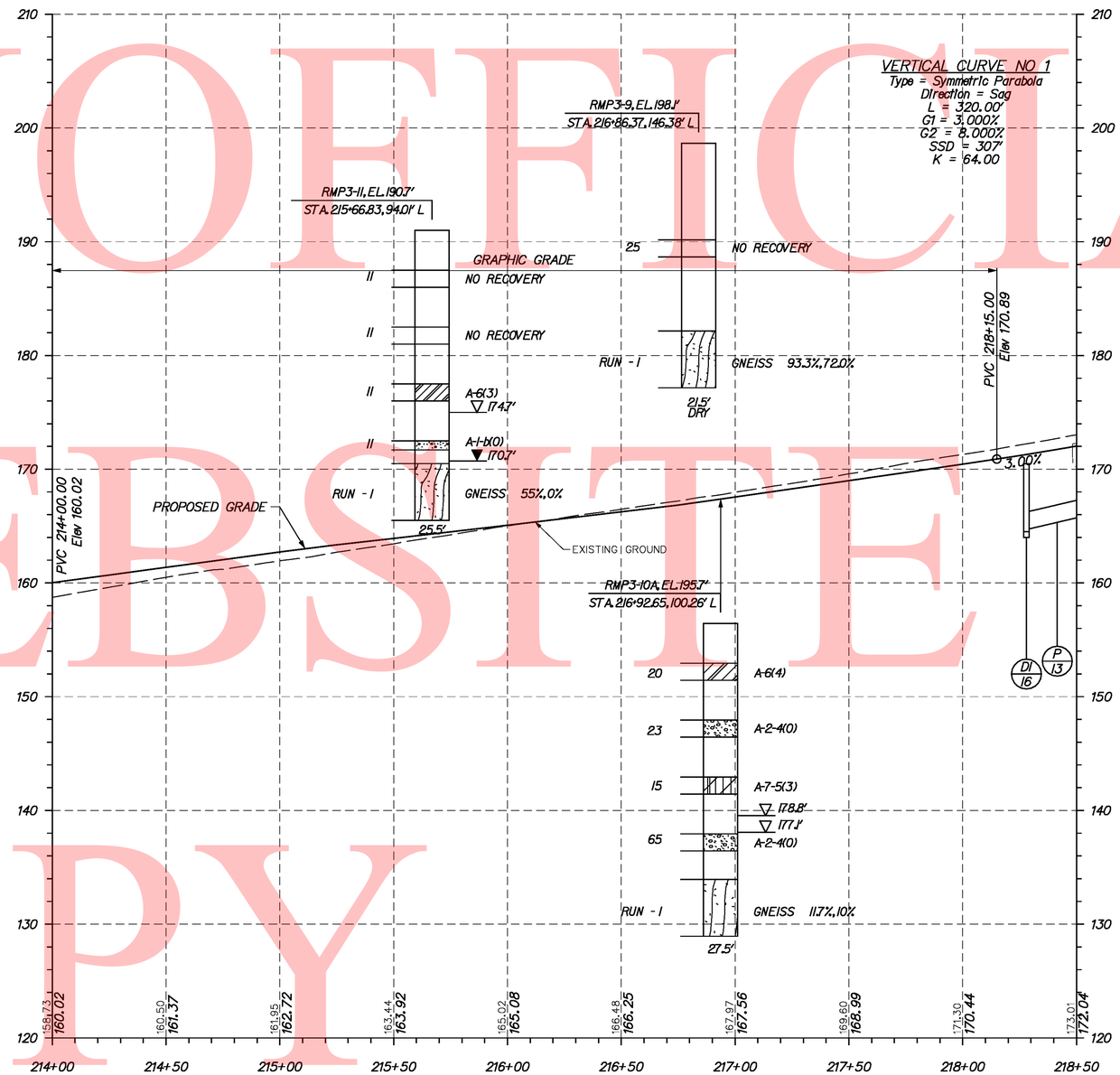

VERTICAL SCALE FEET 0 6 12 18

RAMP 3

Y:\Projects\Del41-202\Del95 Cont 5\Profiles\Sheets\95Ramp3_prof25.dgn

12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 16 OF 44	SHEET NO. 87
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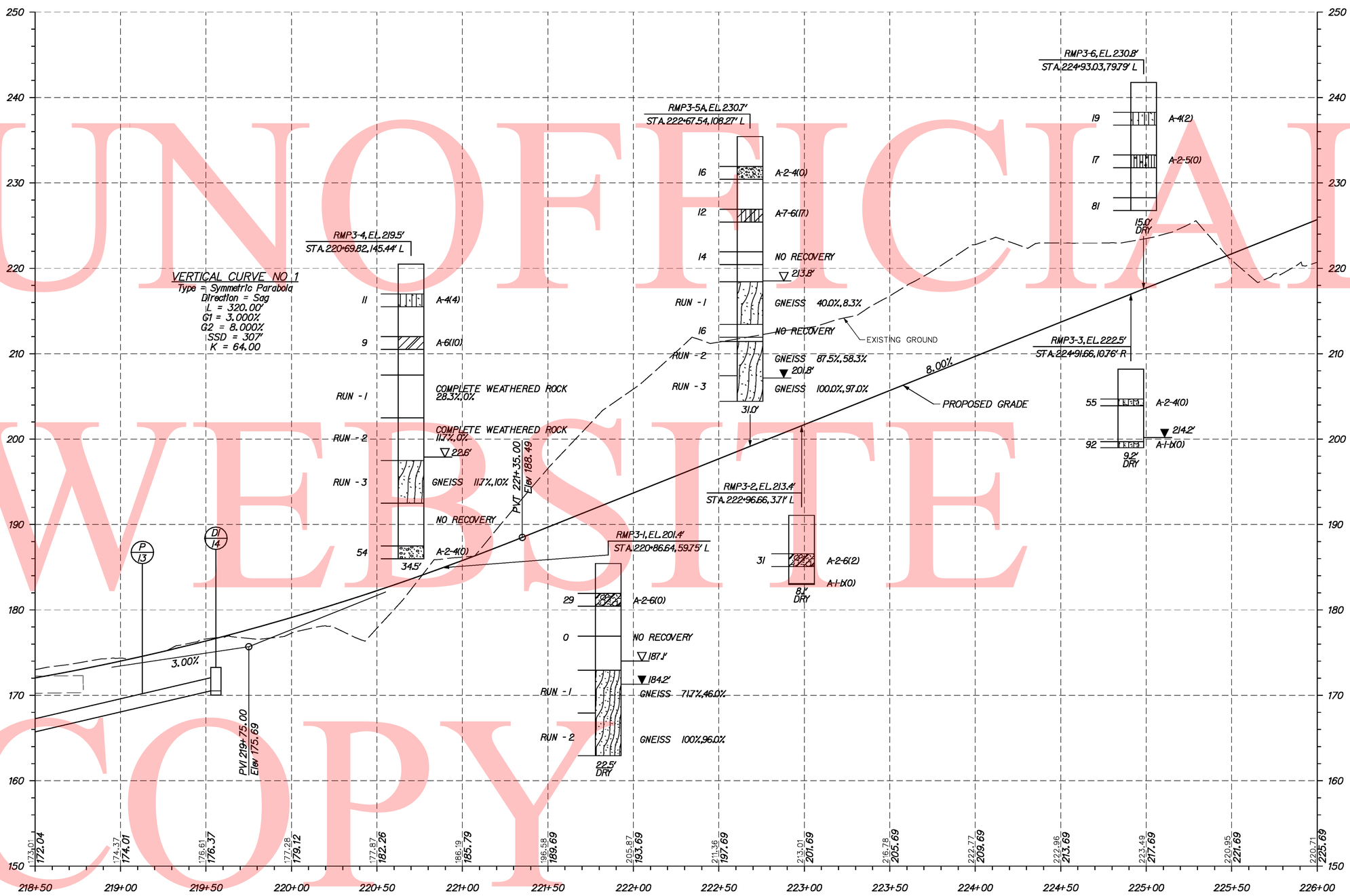

RAMP 3

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 17 OF 44	SHEET NO. 88
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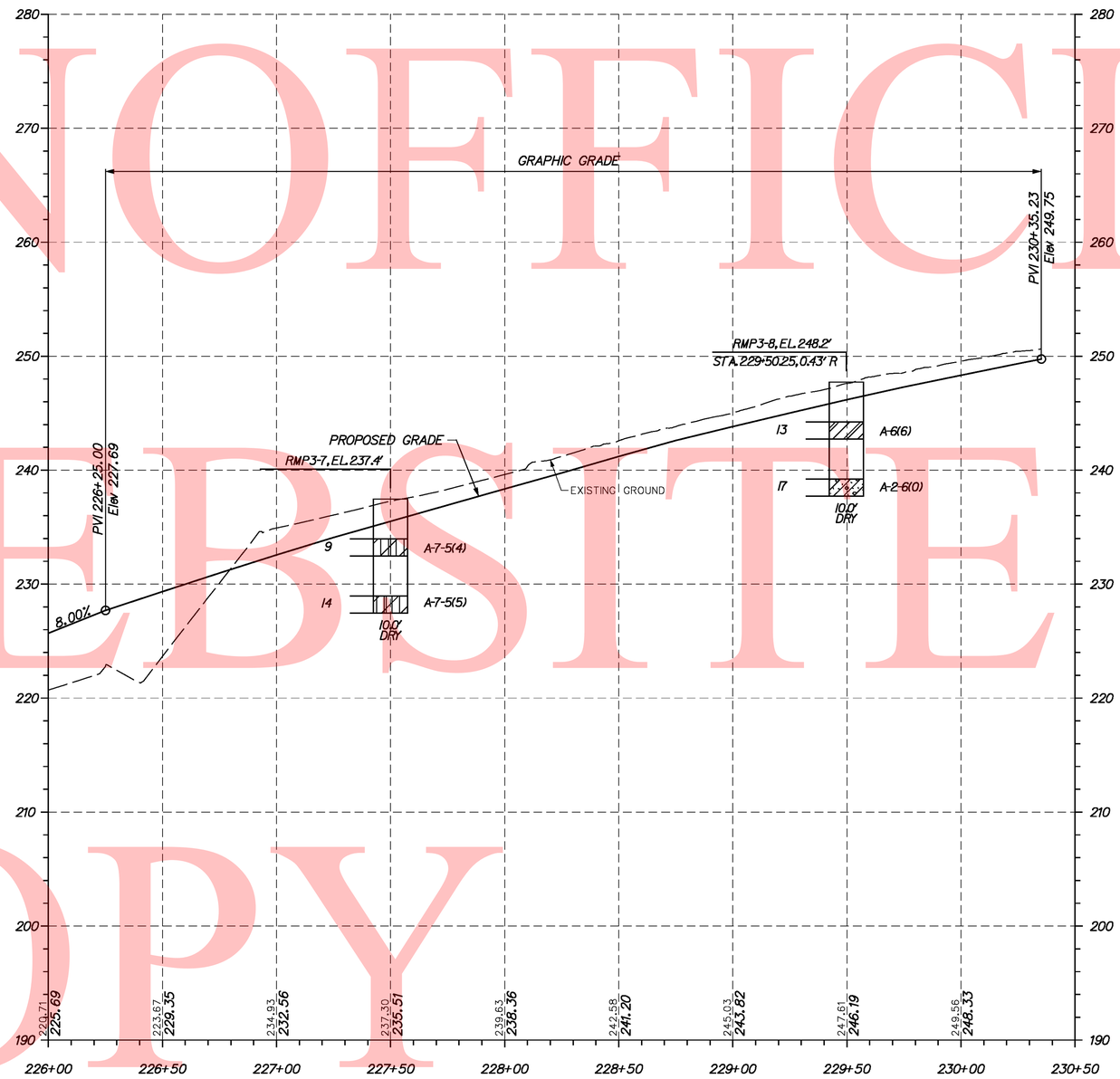

VERTICAL SCALE FEET 0 6 12 18

RAMP 3

UNOFFICIAL WEBSITE COPY

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 18 OF 44	SHEET NO. 89
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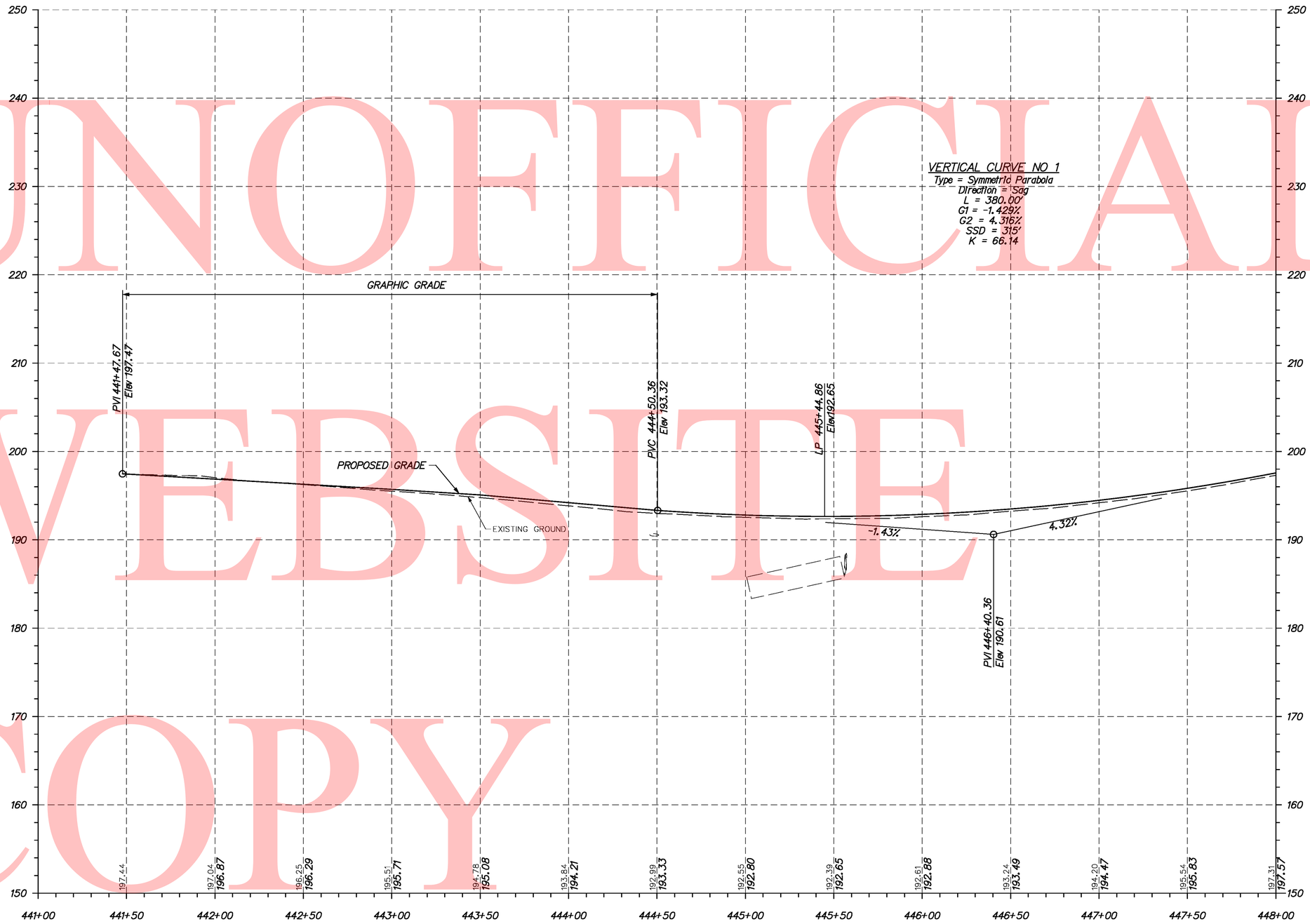

RAMP 4

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 19 OF 44	SHEET NO. 90
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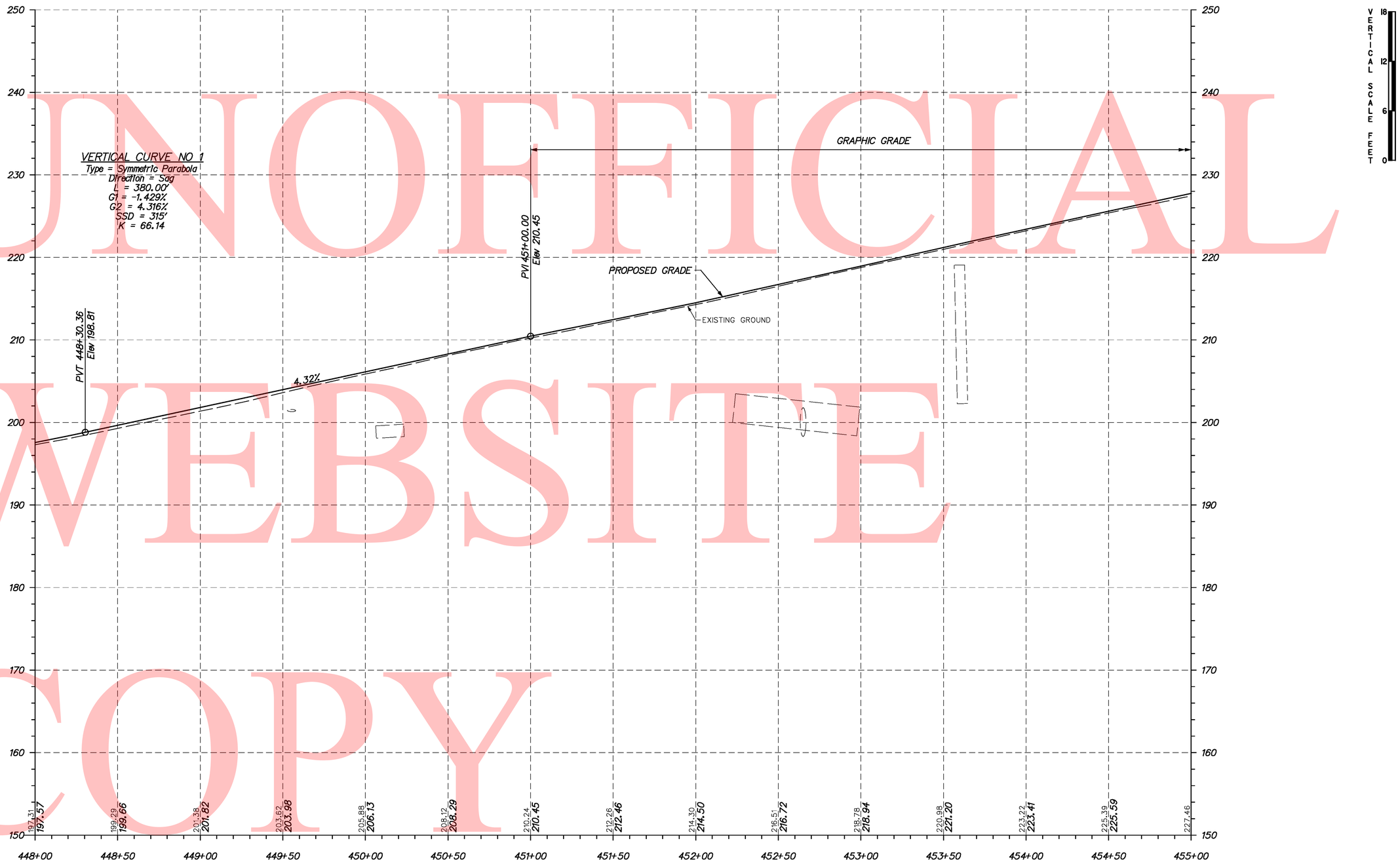

RAMP 4

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 20 OF 44	SHEET NO. 91
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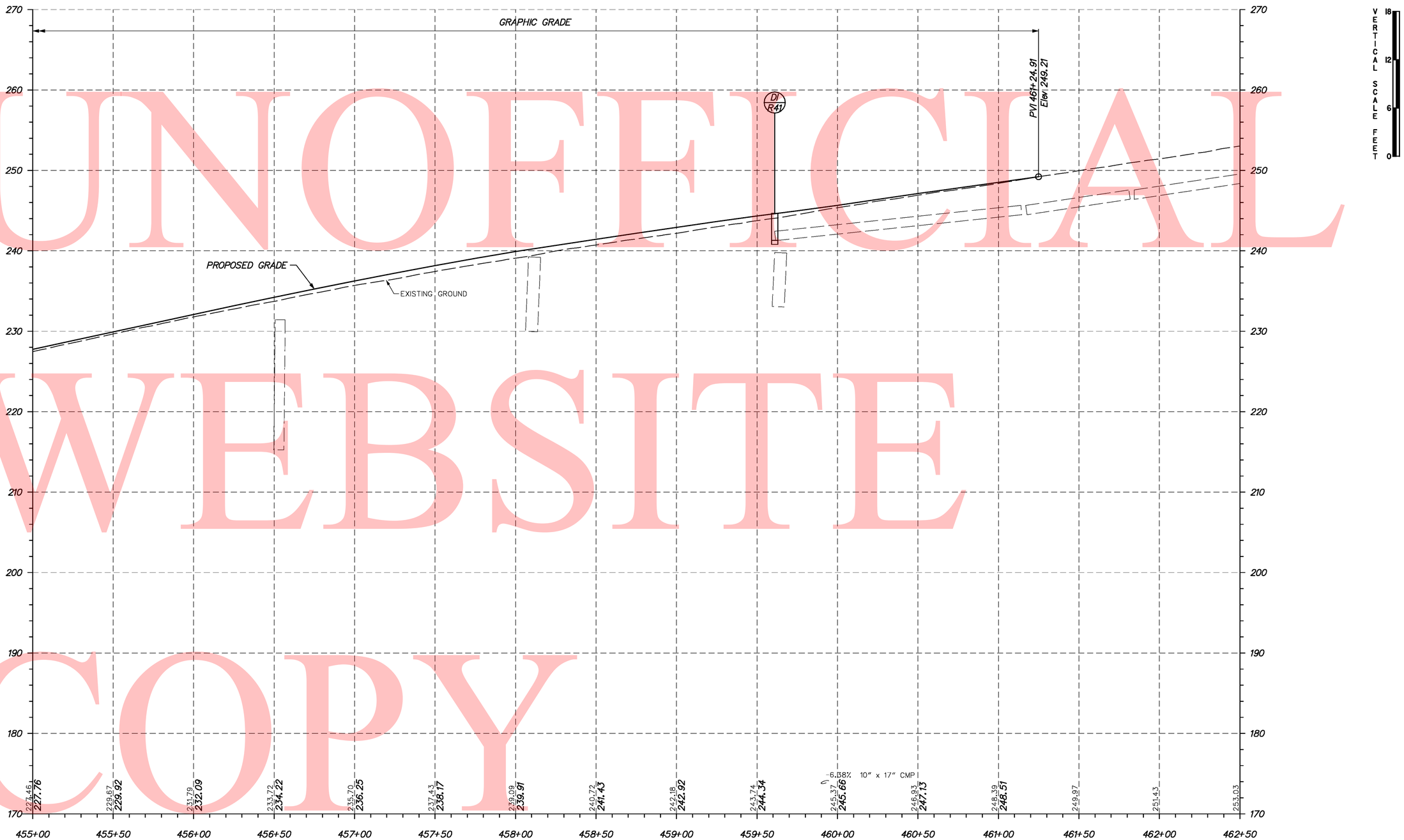

RAMP 4

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 21 OF 44	SHEET NO. 92
				COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
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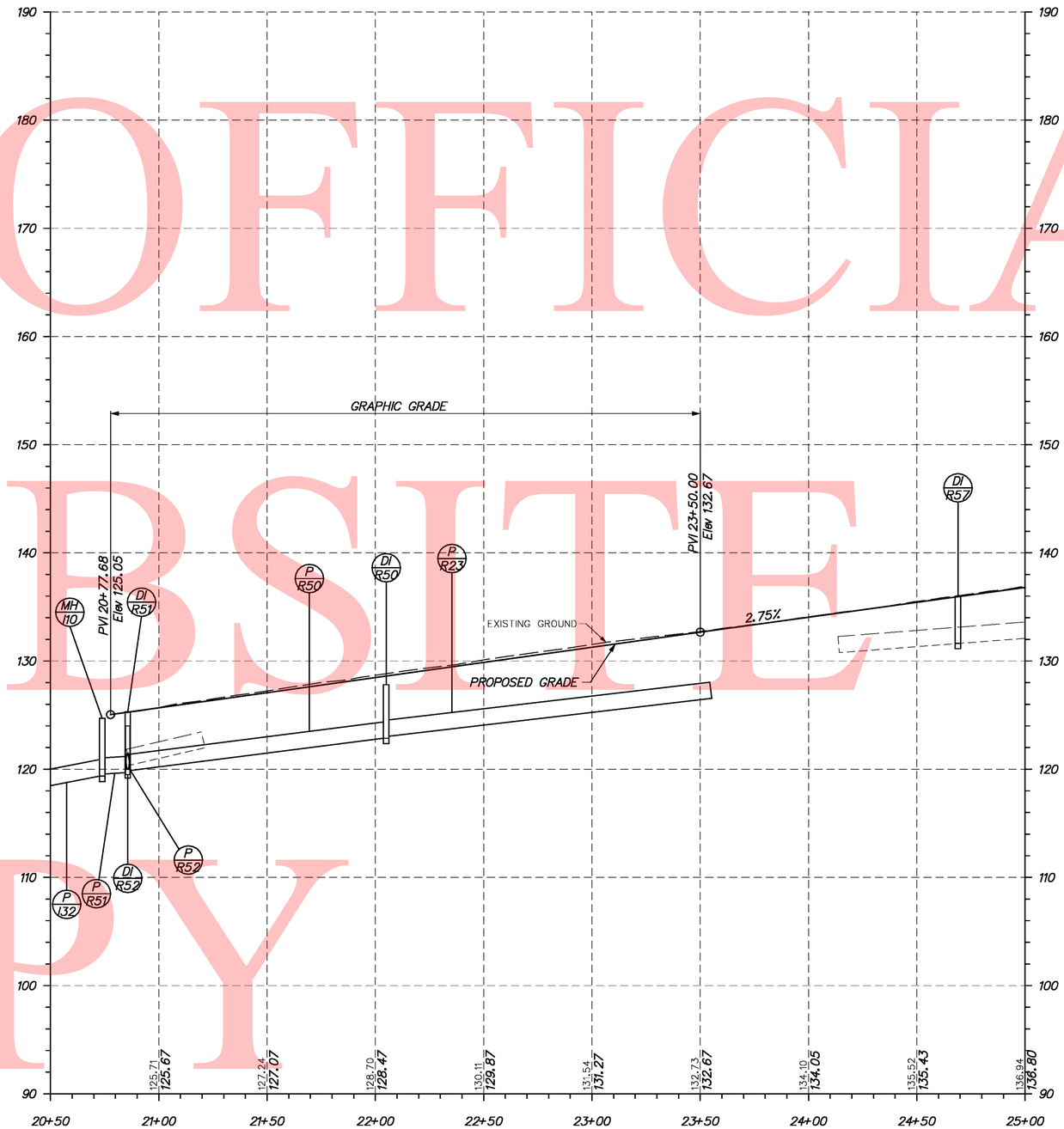

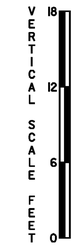

RAMP 5

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 22 OF 44	SHEET NO. 93
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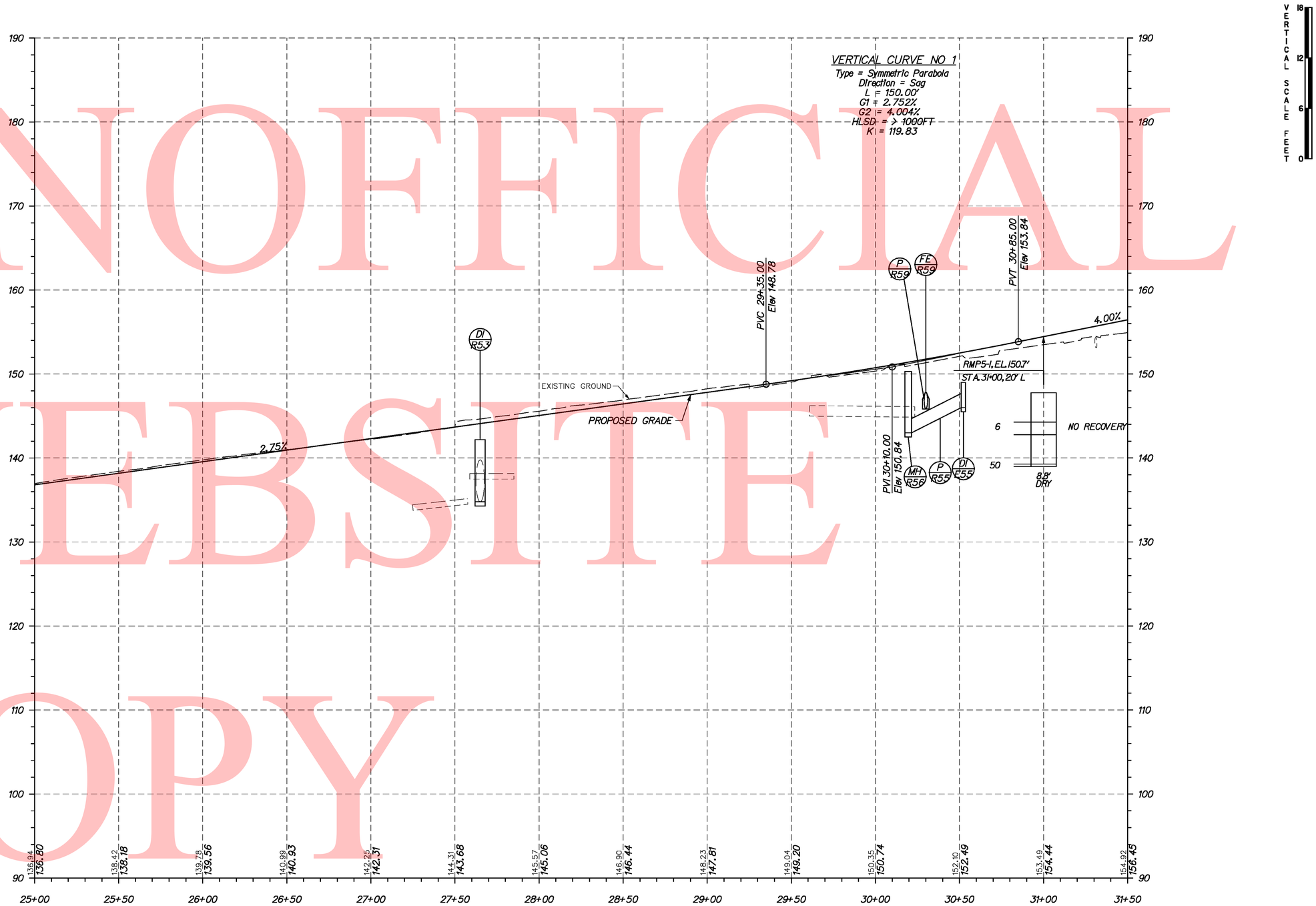

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 23 OF 44	SHEET NO. 94
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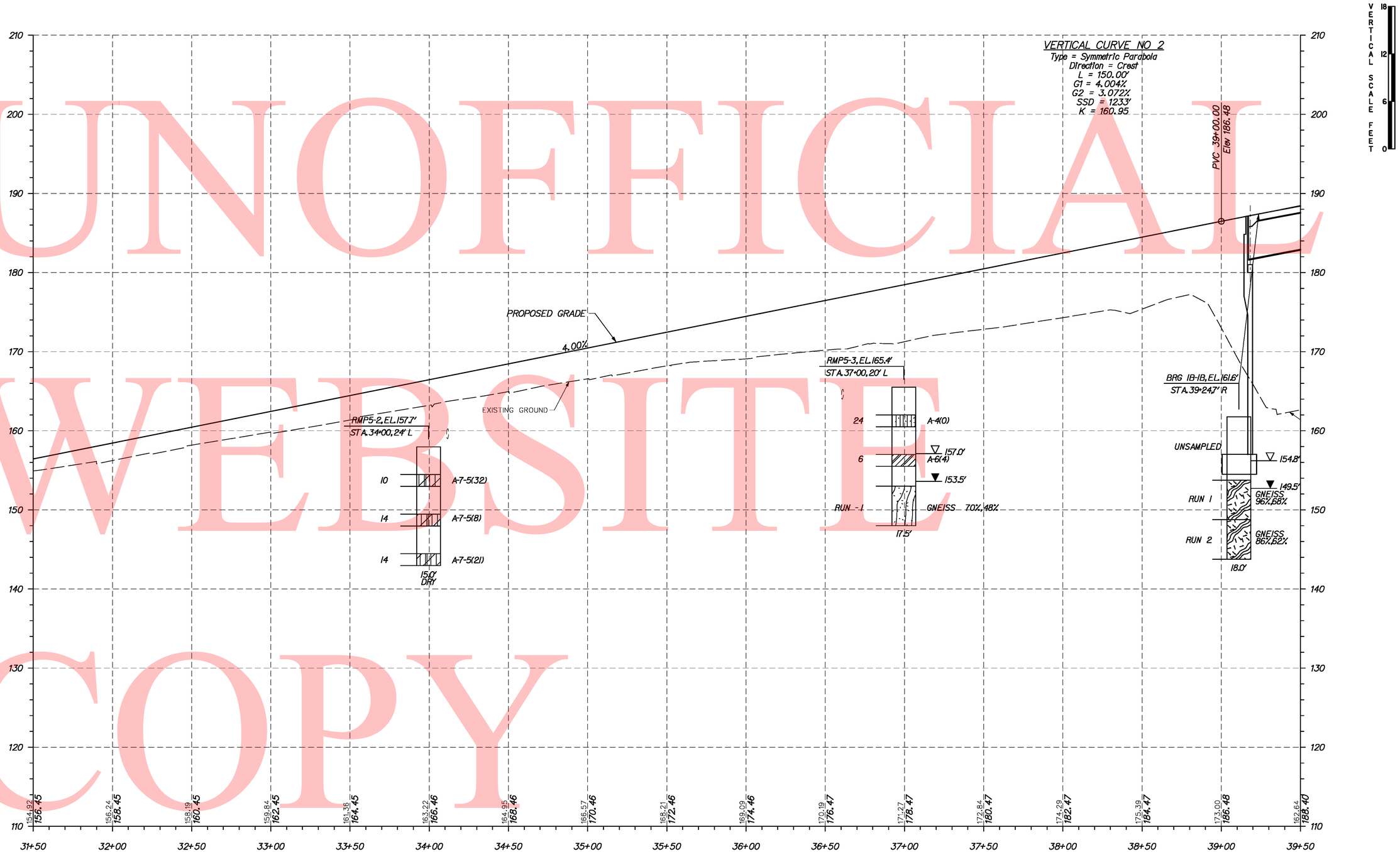

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 24 OF 44	SHEET NO. 95
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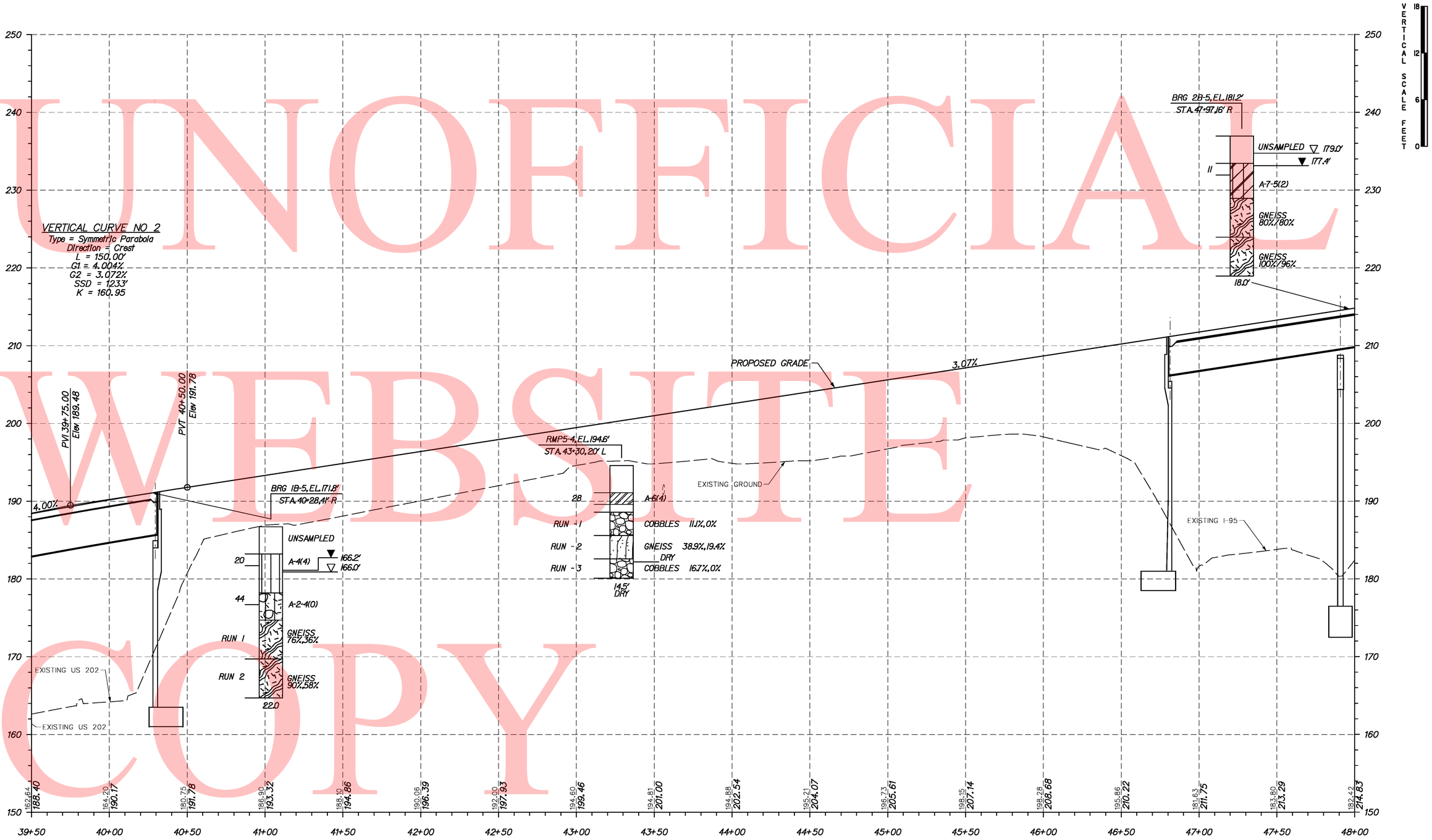

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 25 OF 44	SHEET NO. 96
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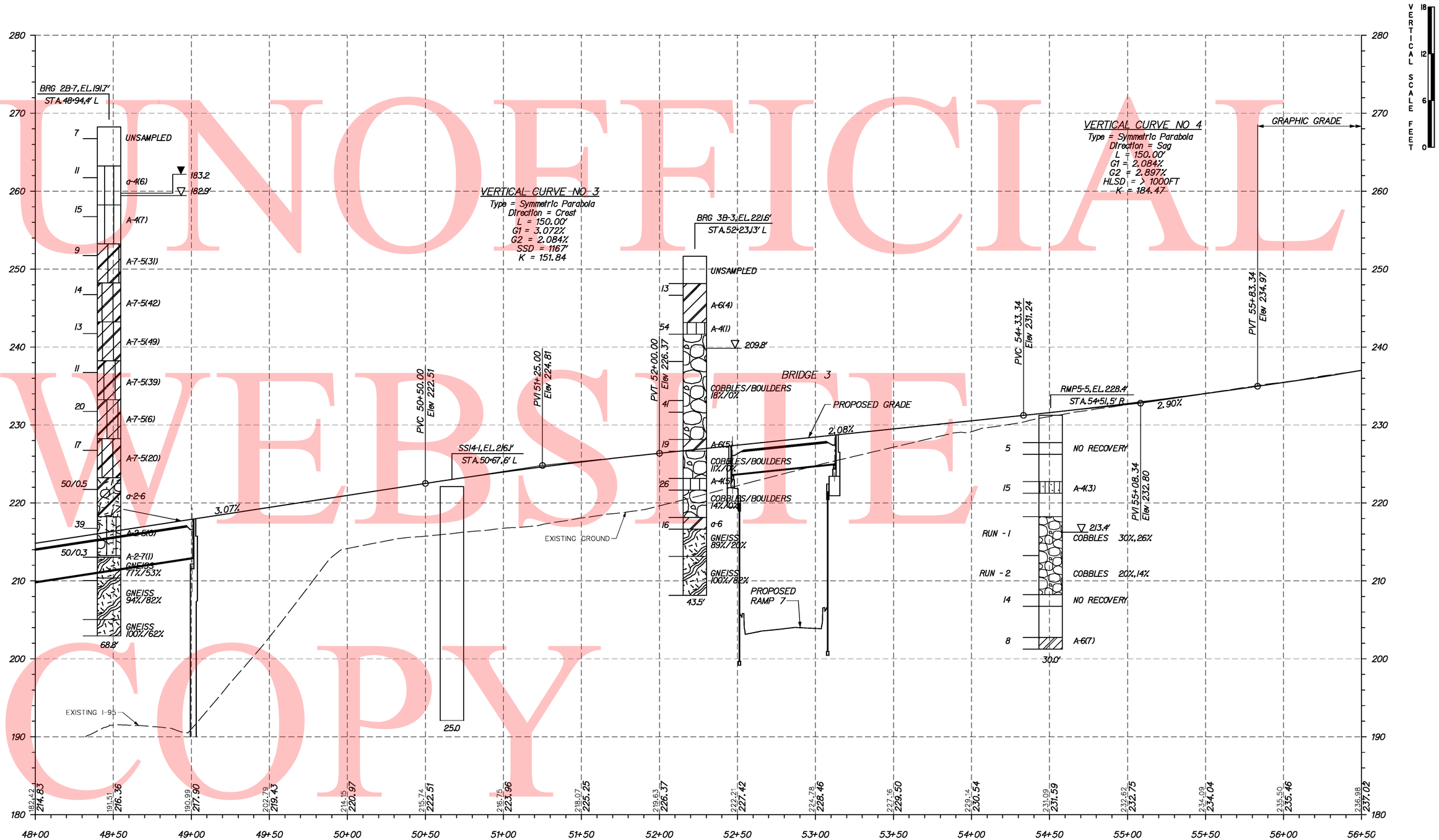

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 26 OF 44	SHEET NO. 97
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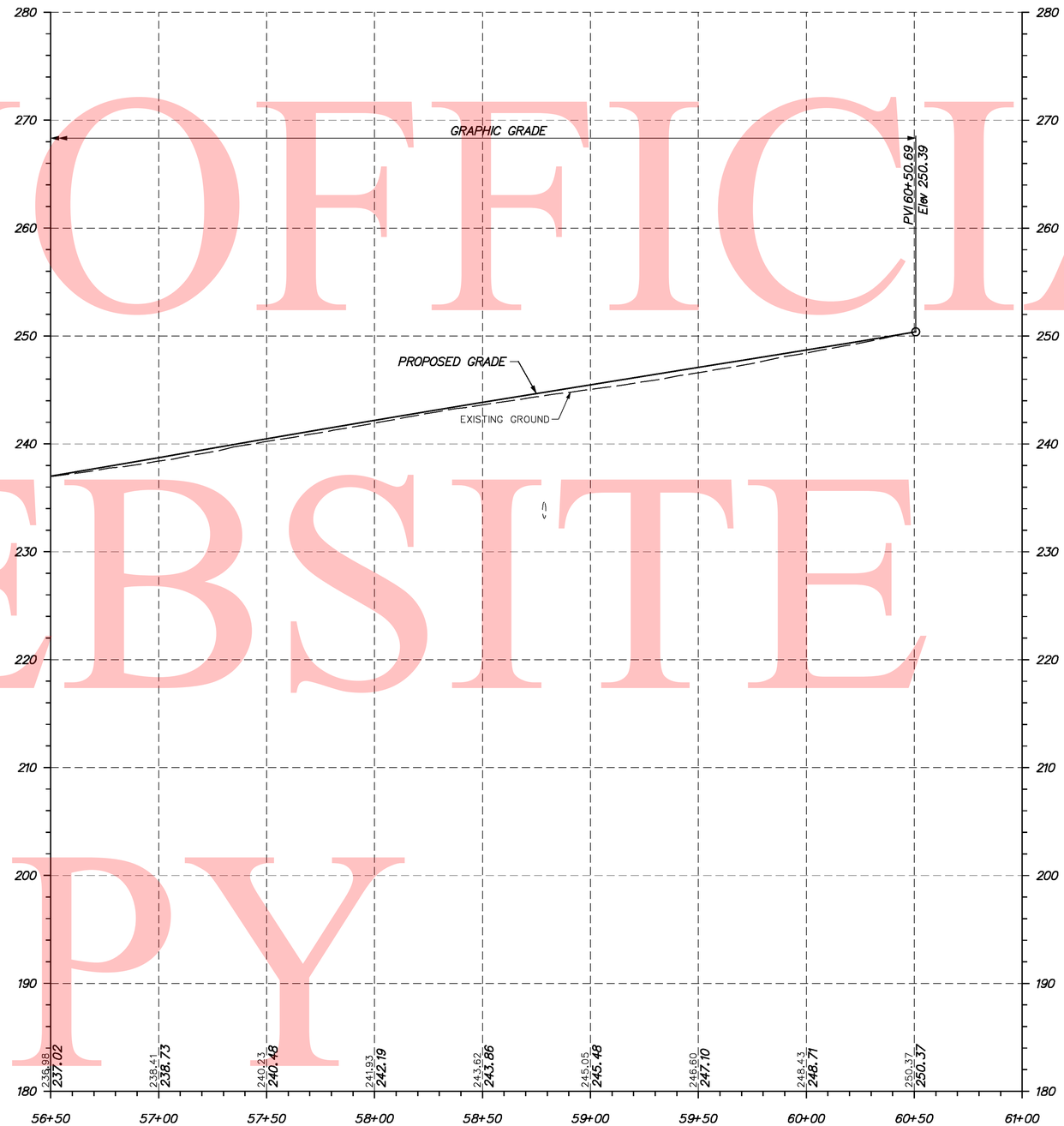

VERTICAL SCALE FEET 18 12 6 0

RAMP 5

UNOFFICIAL WEBSITE COPY

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 27 OF 44	SHEET NO. 98
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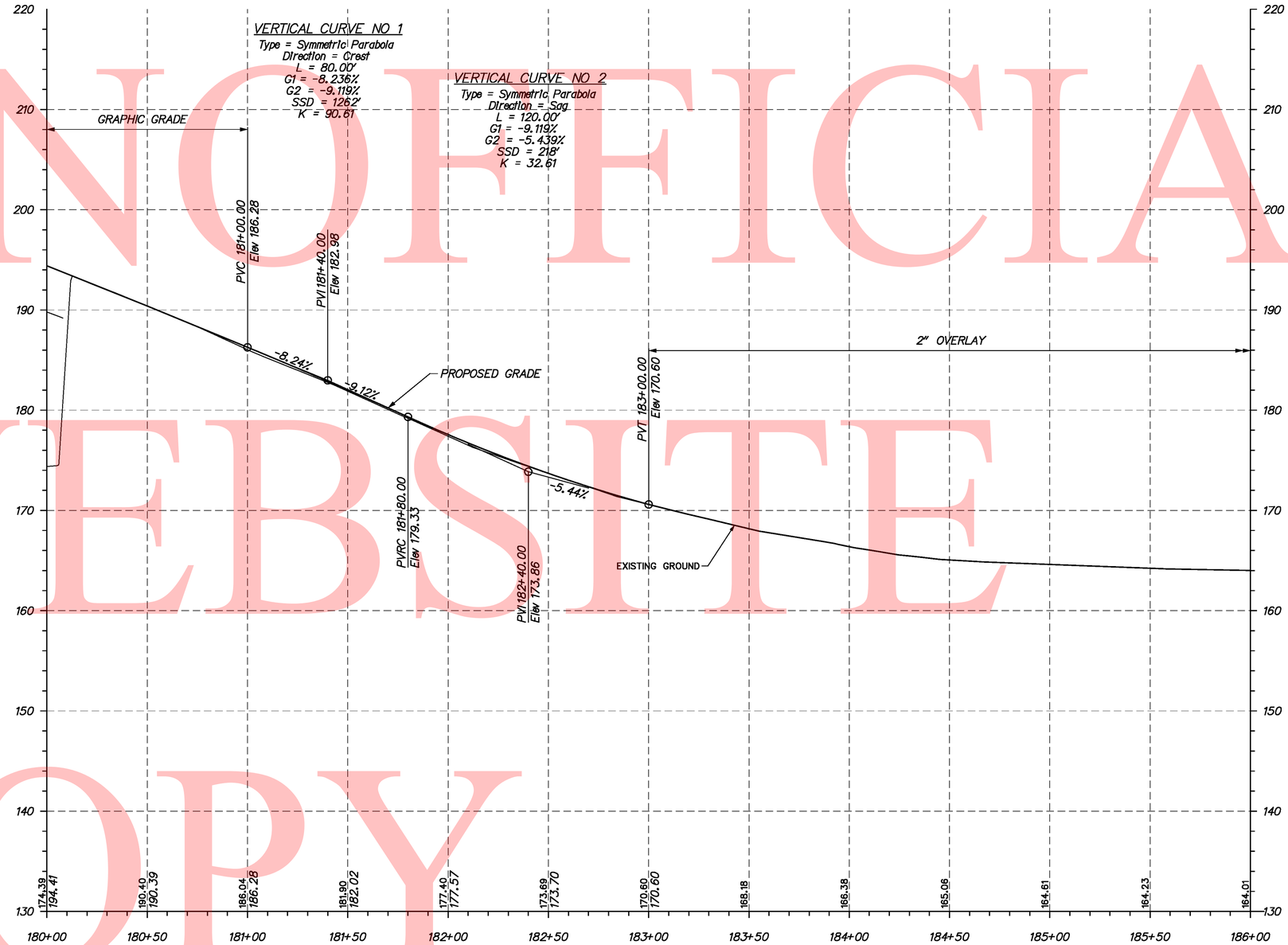

RAMP 6

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 28 OF 44	SHEET NO. 99
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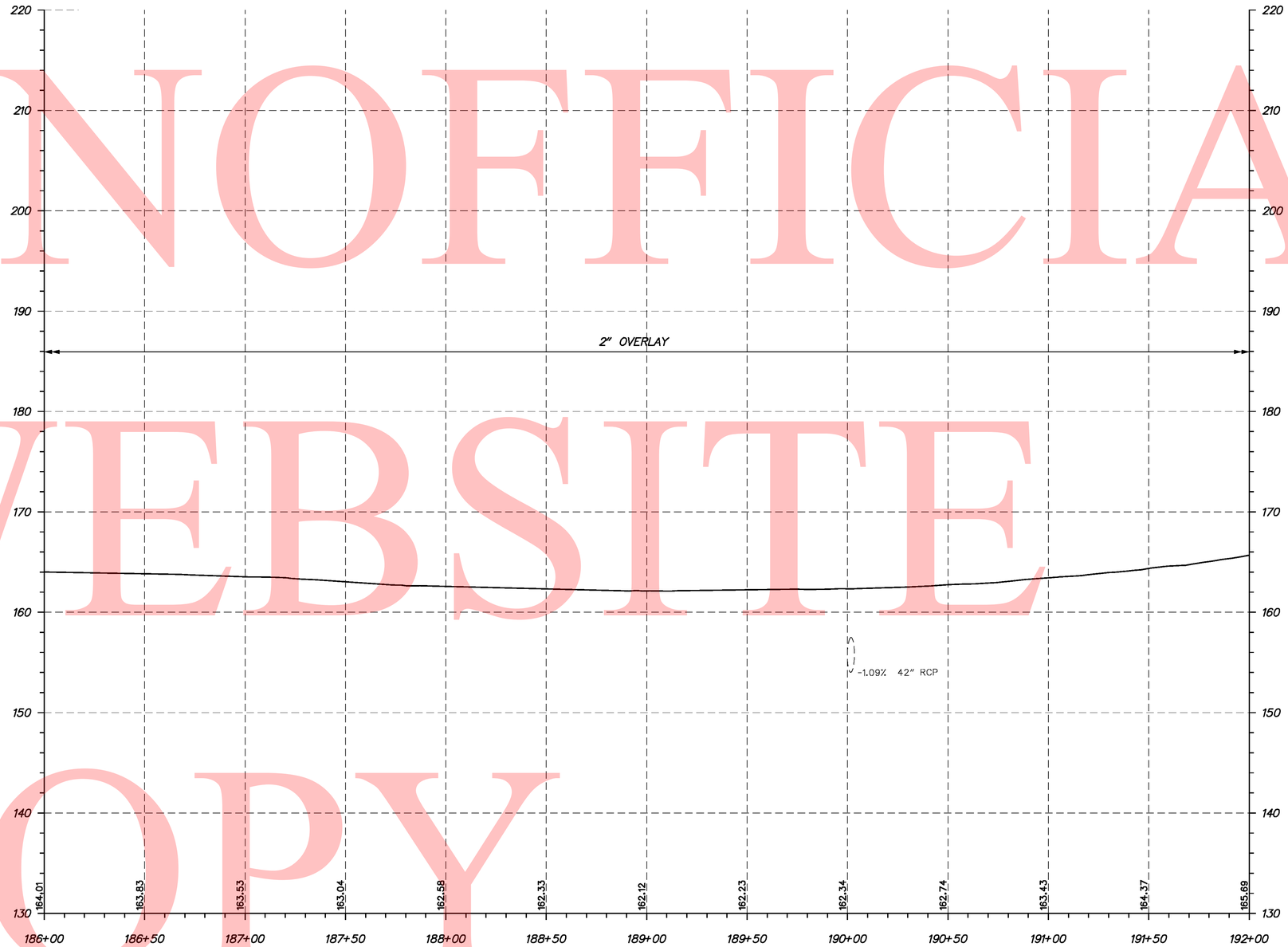

VERTICAL SCALE FEET 0 6 12 18

RAMP 6

UNOFFICIAL WEBSITE COPY

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 29 OF 44	SHEET NO. 100
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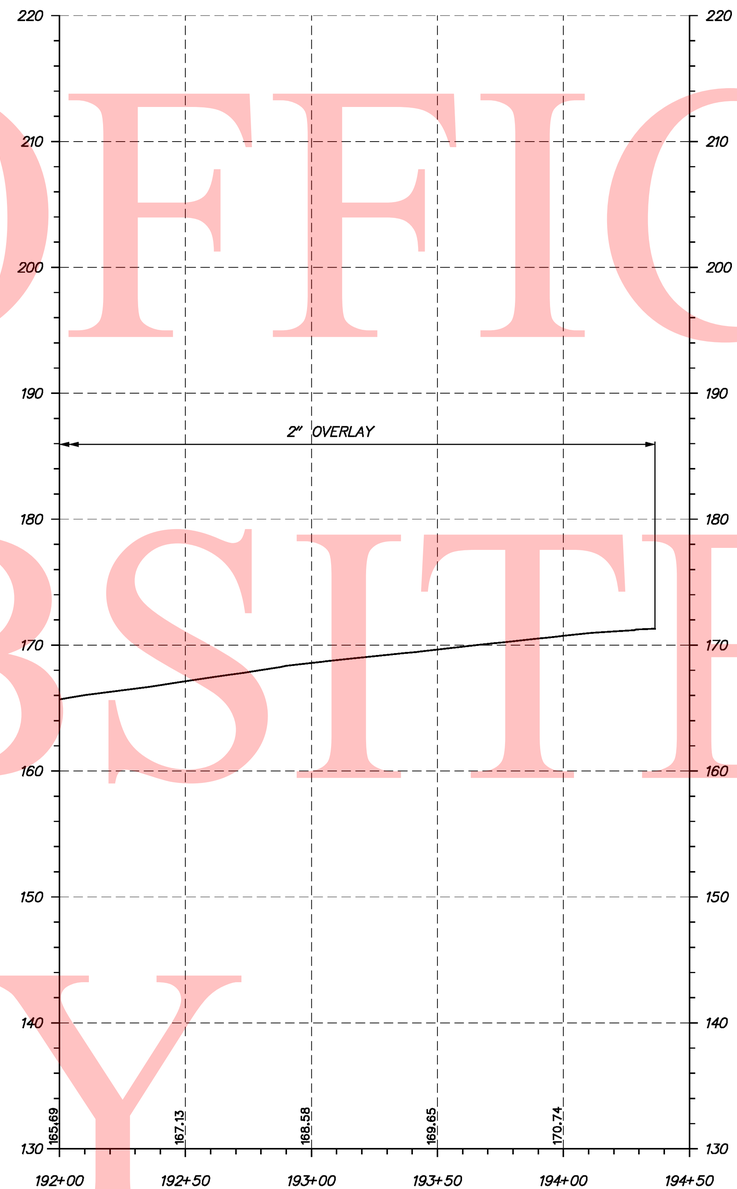

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO.	NA	PROFILES PR 30 OF 44	SHEET NO. 101
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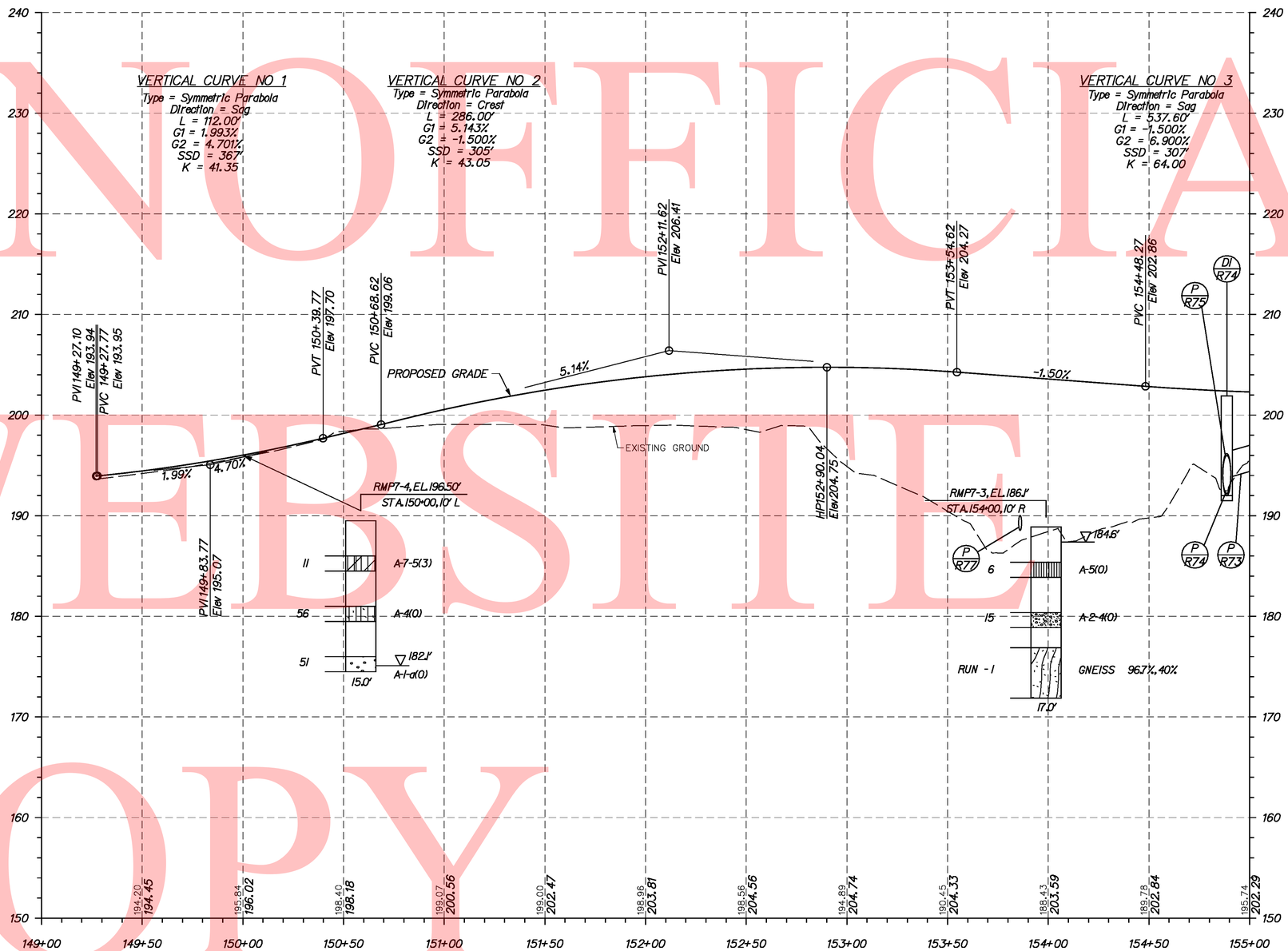
					CHECKED BY:	BMD		



RAMP 7

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 31 OF 44	SHEET NO. 102
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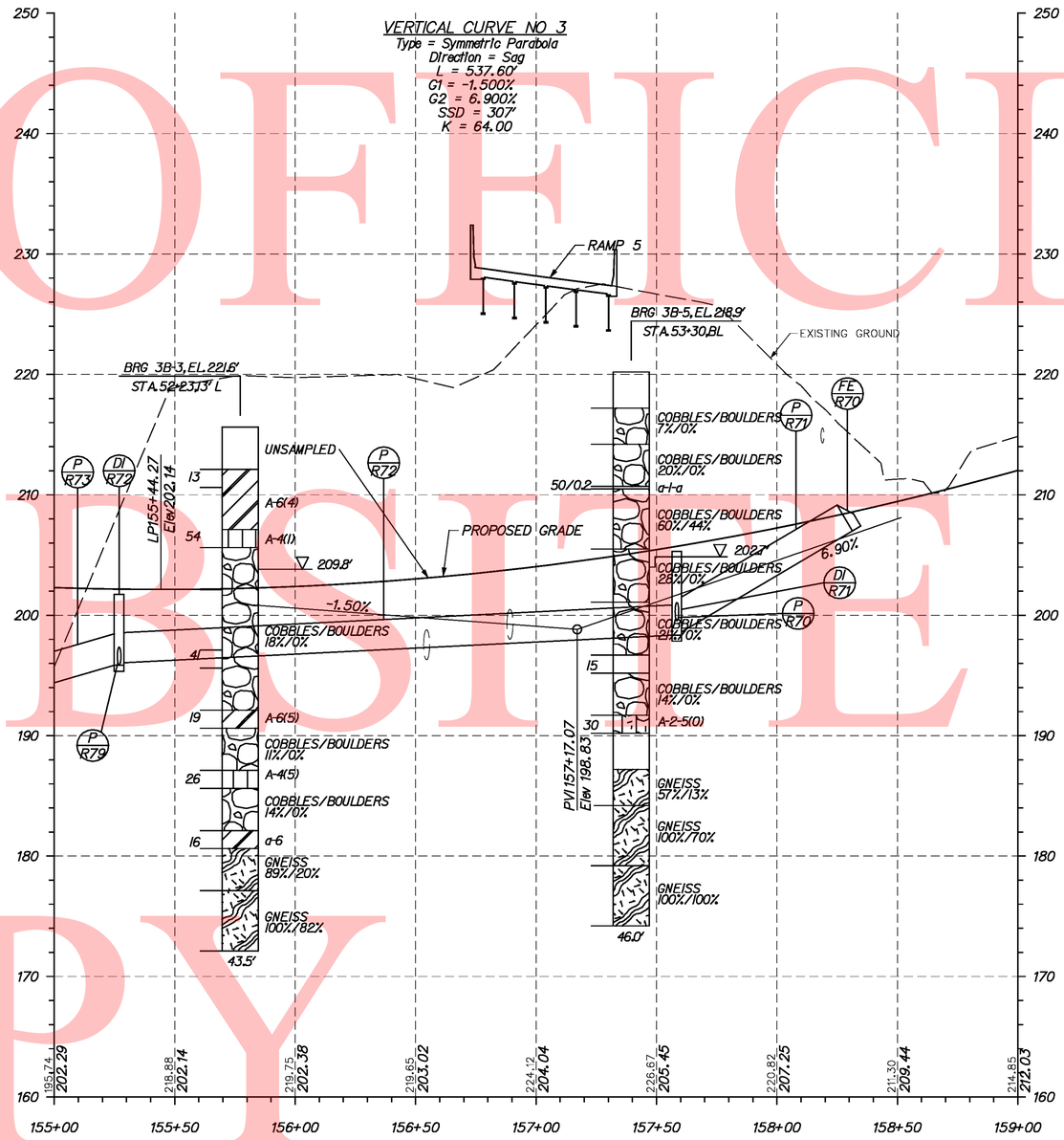

RAMP 7

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 32 OF 44	SHEET NO. 103
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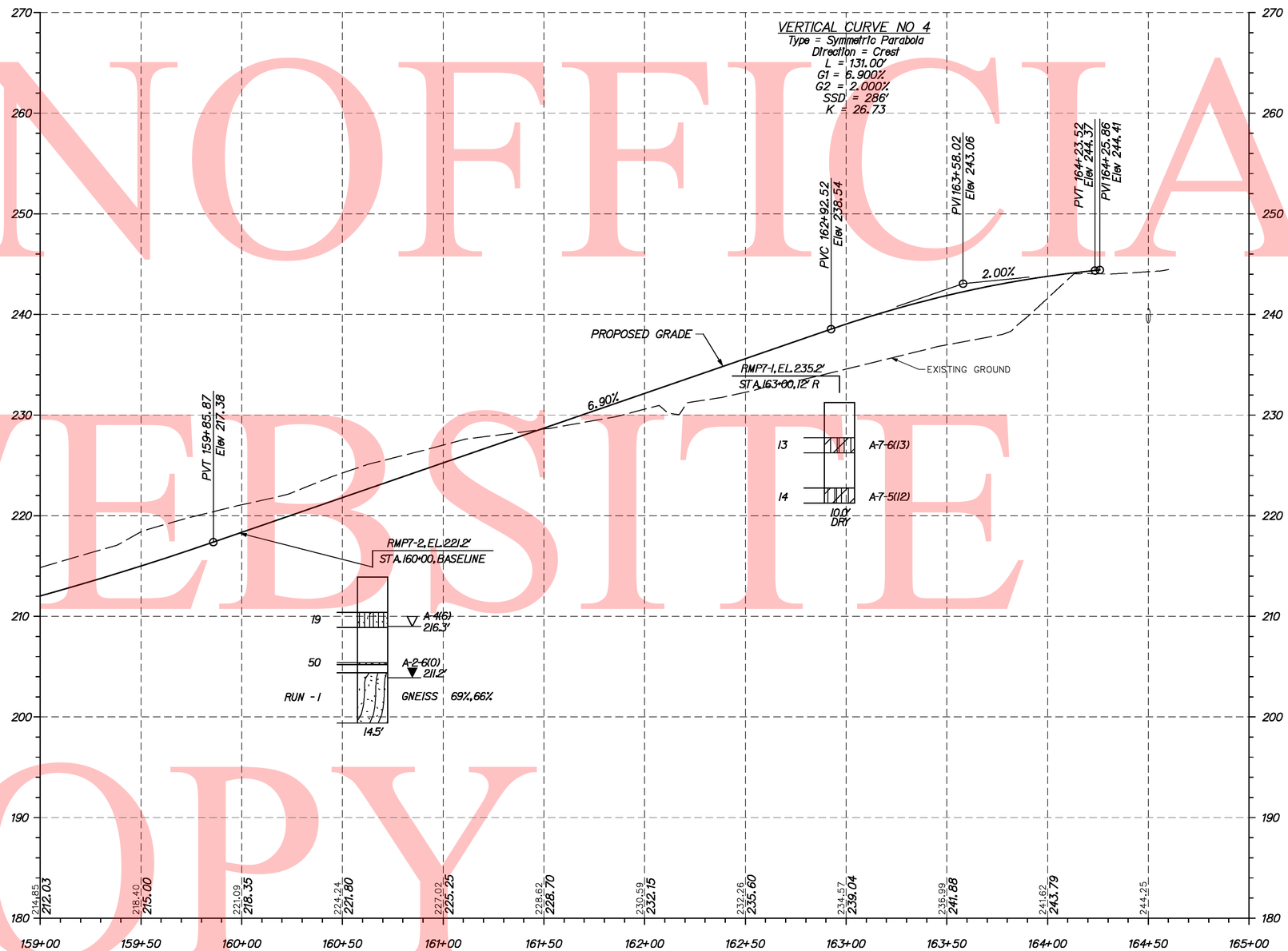

RAMP 7

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 33 OF 44	SHEET NO. 104
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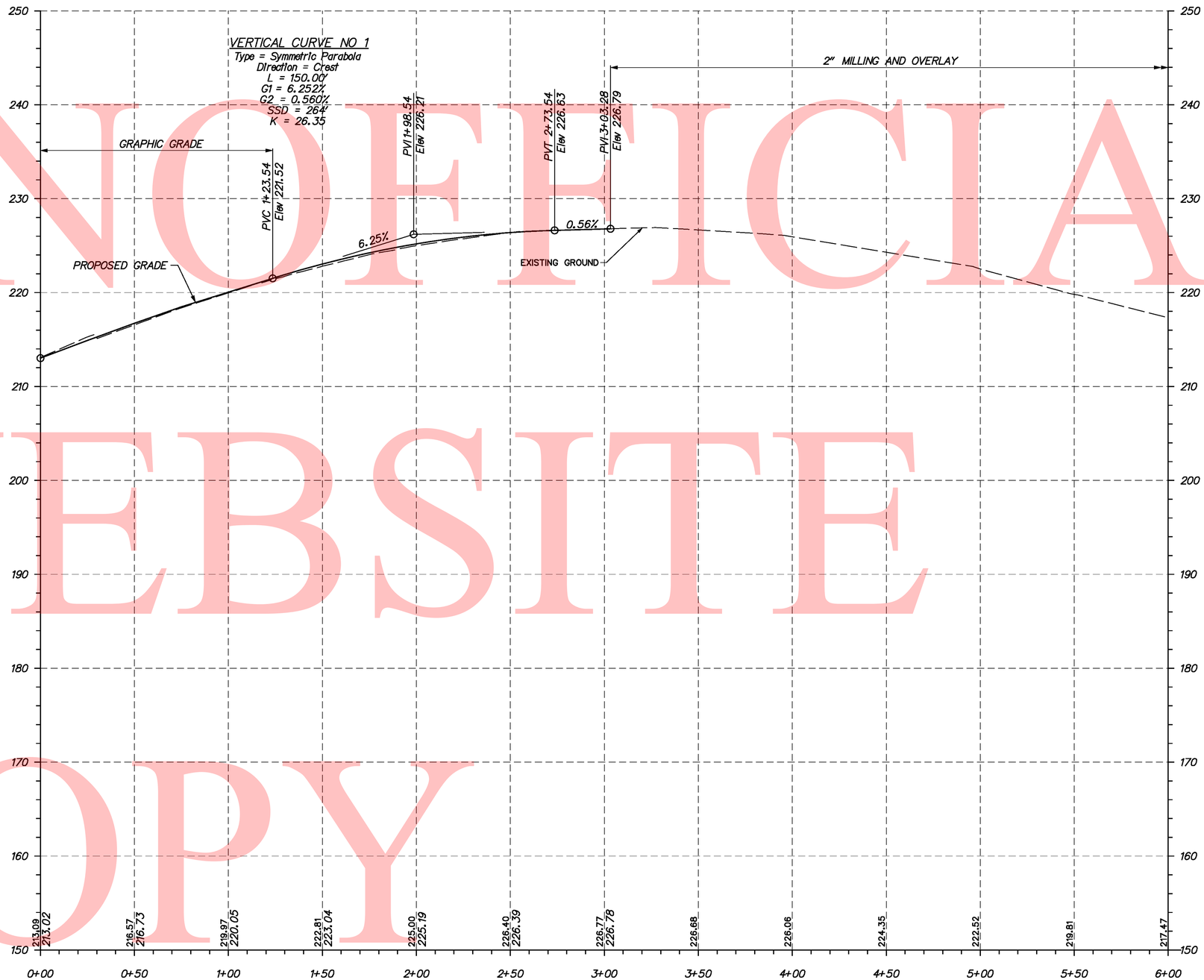

VERTICAL SCALE FEET 18 12 6 0

RAMP 8

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 34 OF 44	SHEET NO. 105
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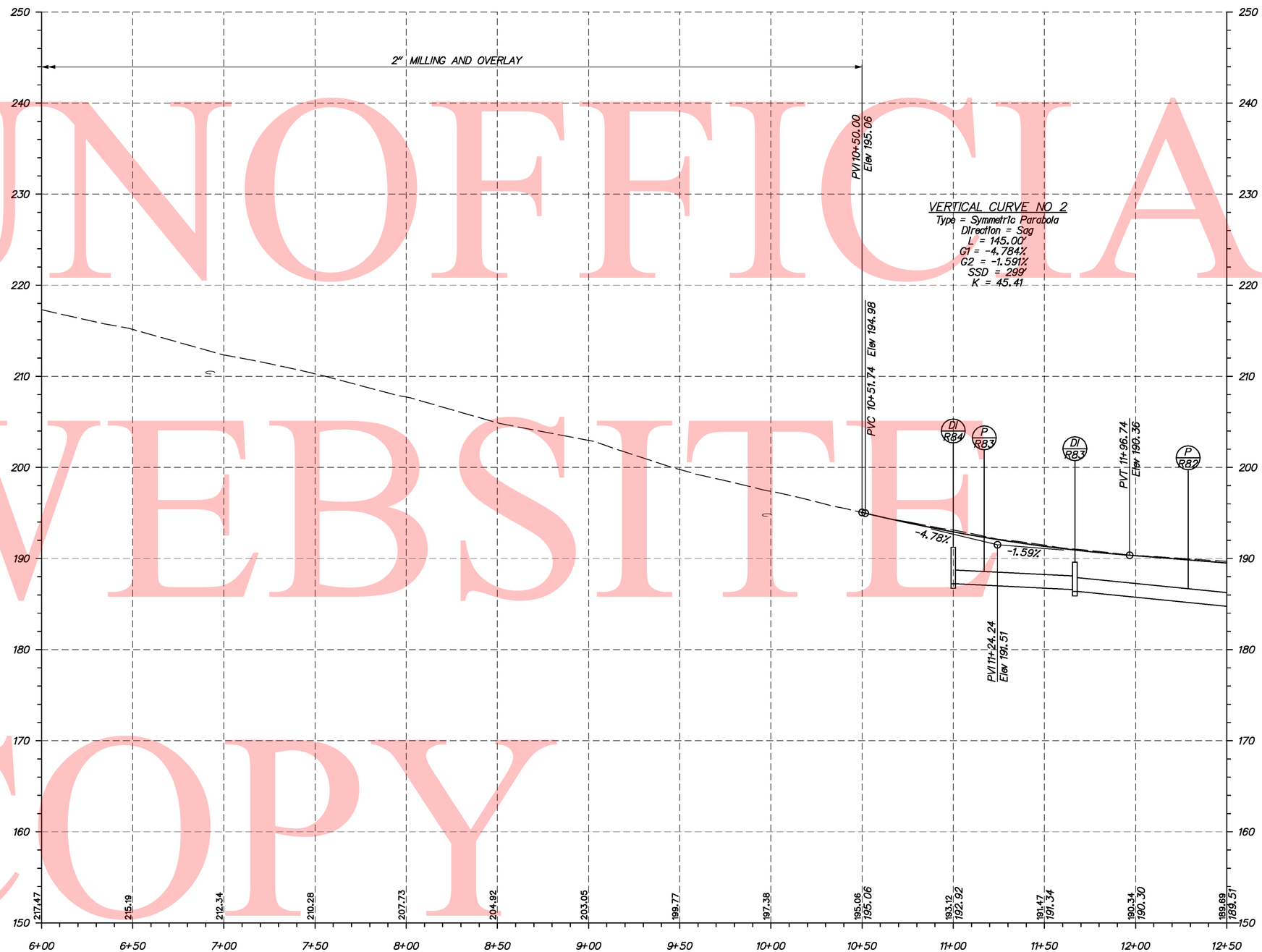

VERTICAL SCALE FEET 0 6 12 18

RAMP 8

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 35 OF 44	SHEET NO. 106
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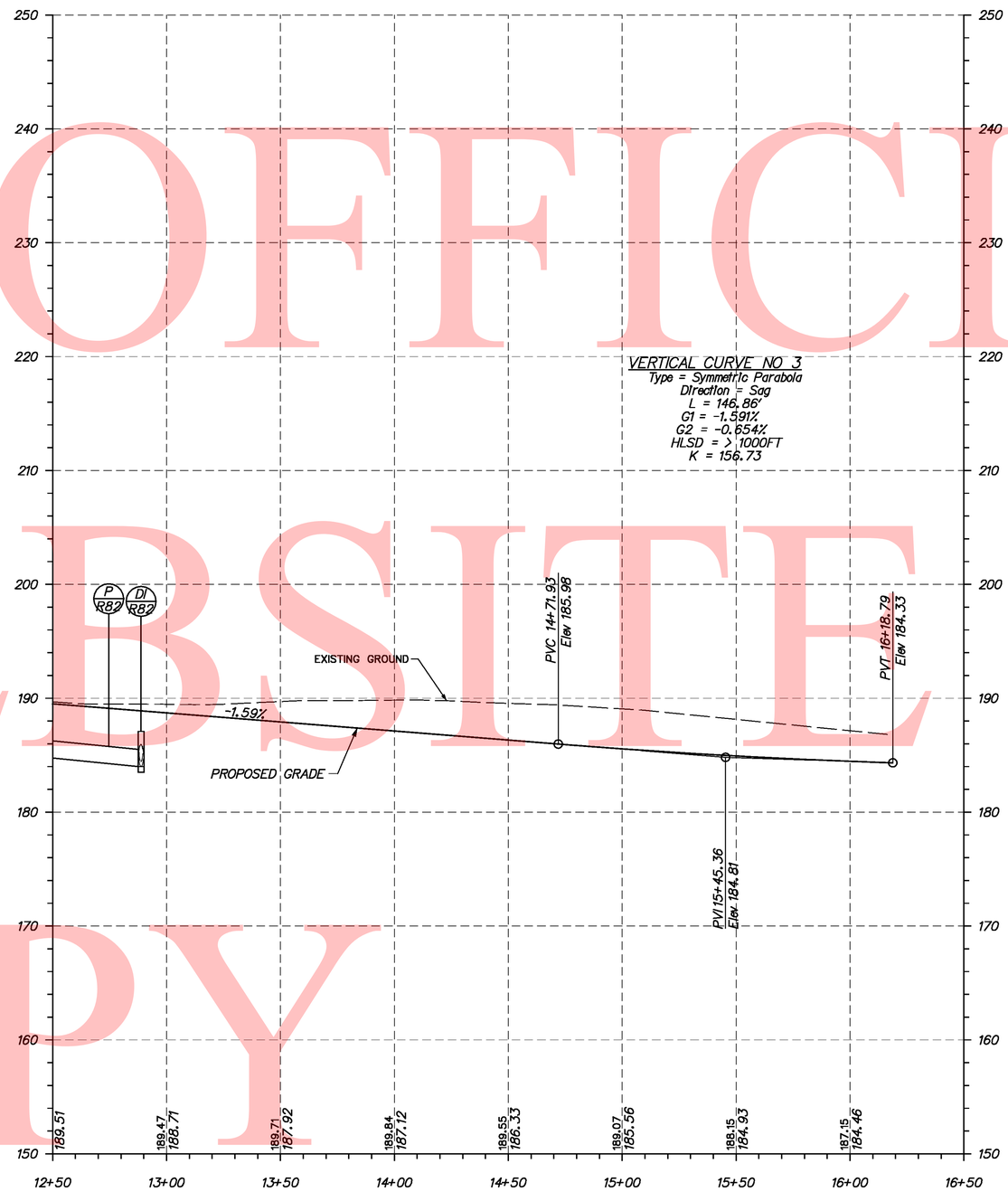

VERTICAL SCALE FEET 0 6 12 18

RAMP 8

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 36 OF 44	SHEET NO. 107
				COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
					CHECKED BY: BMD		

VERTICAL SCALE FEET 18 12 6 0

SR 202 NORTHBOUND

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 37 OF 44	SHEET NO. 108
				COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
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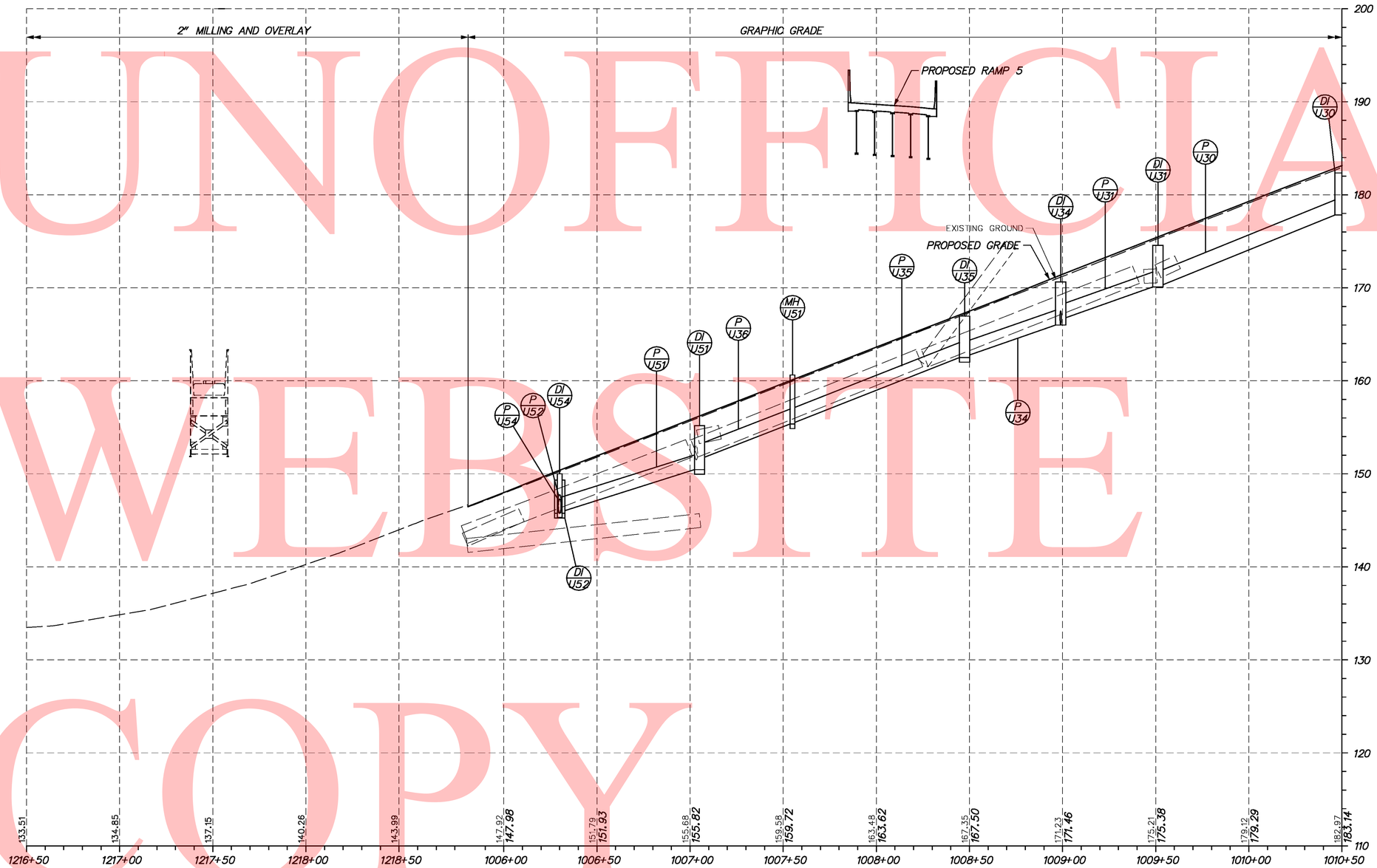

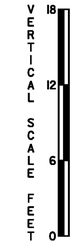

SR /US 202 NORTHBOUND

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 38 OF 44	SHEET NO. 109
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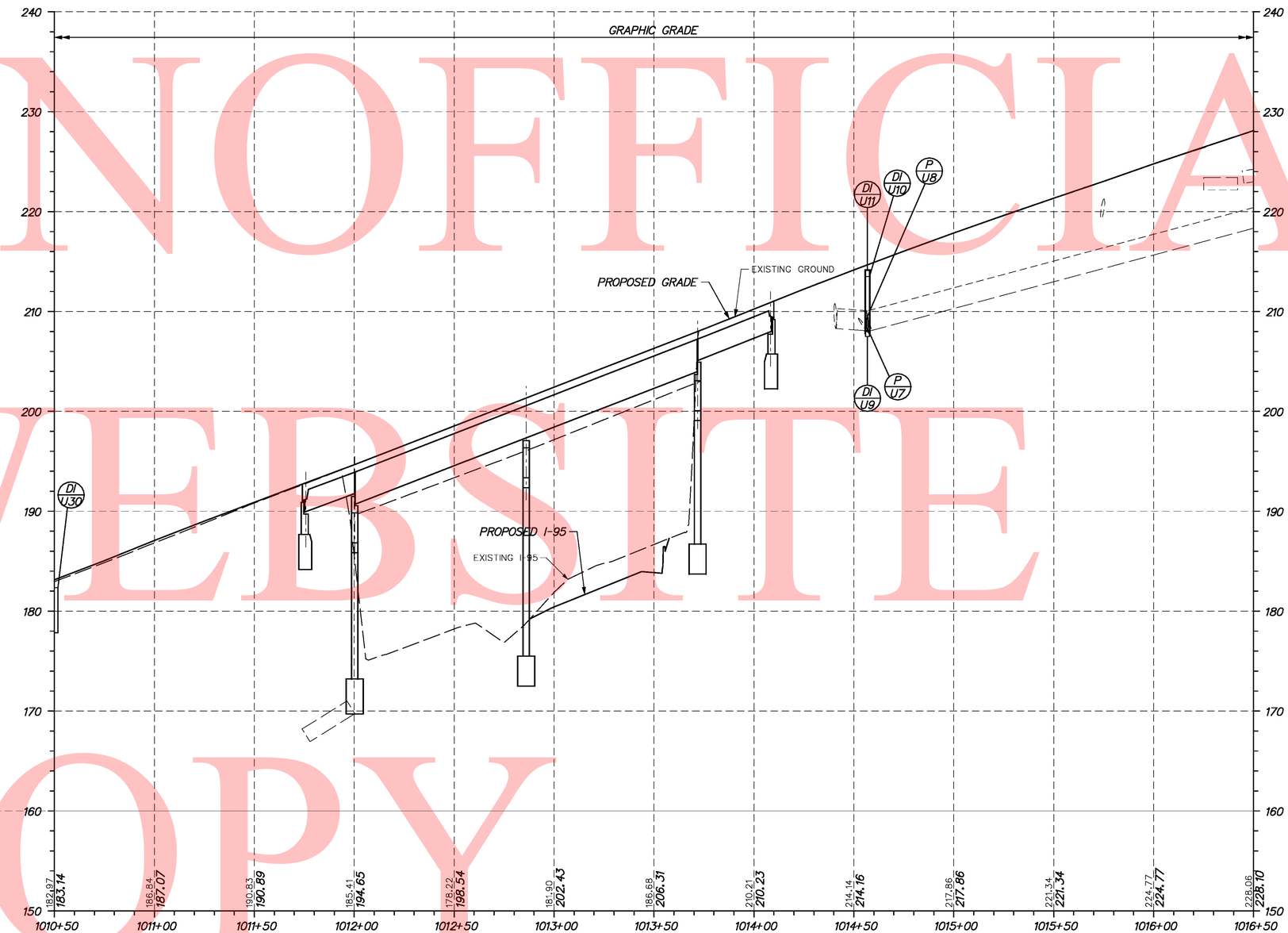

VERTICAL SCALE FEET 0 6 12 18

US 202 NORTHBOUND

UNOFFICIAL WEBSITE COPY

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 39 OF 44	SHEET NO. 110
				COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
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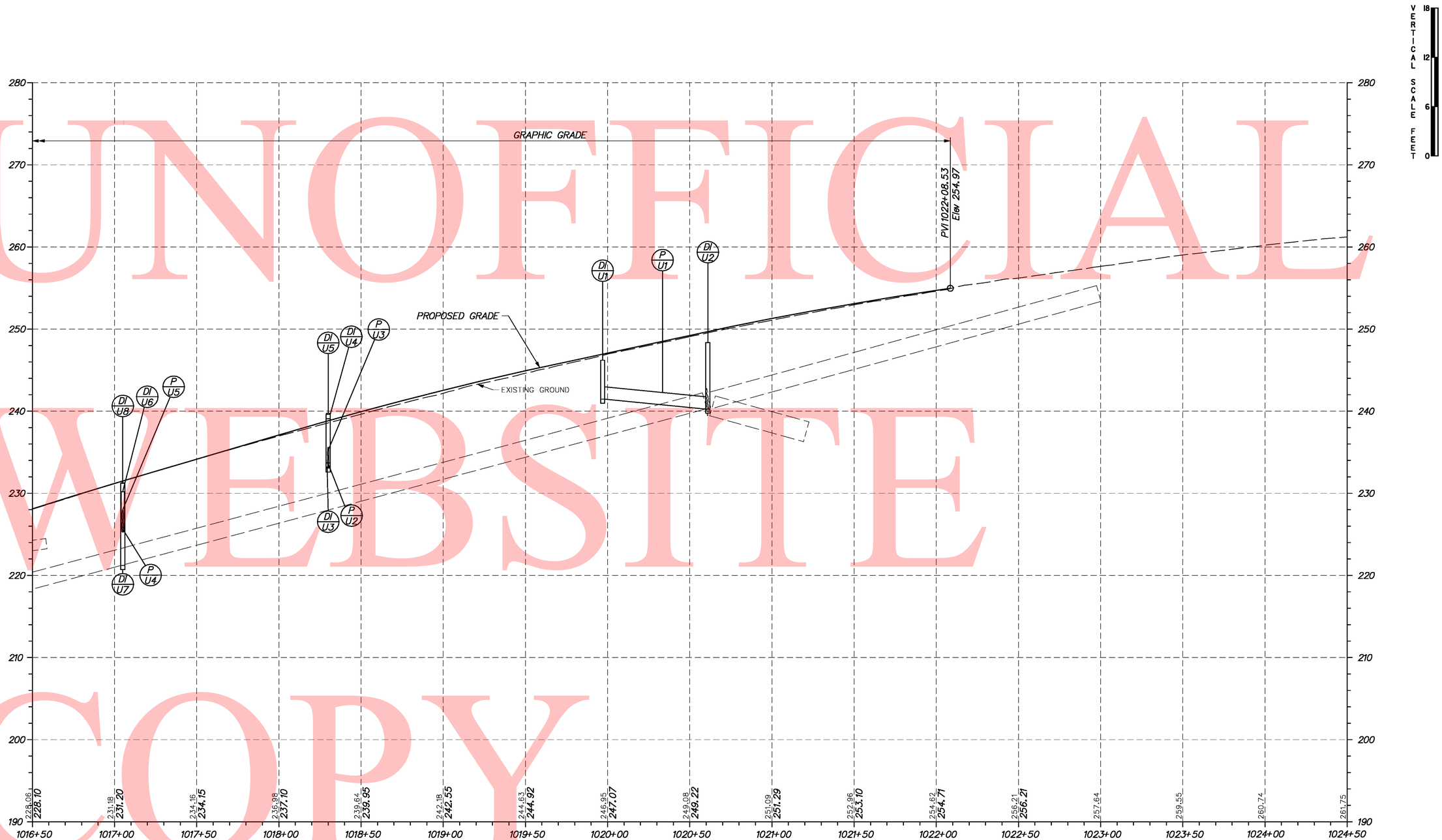

US 202 NORTHBOUND

UNOFFICIAL WEBSITE COPY

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 40 OF 44	SHEET NO. 111
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					CHECKED BY: BMD		

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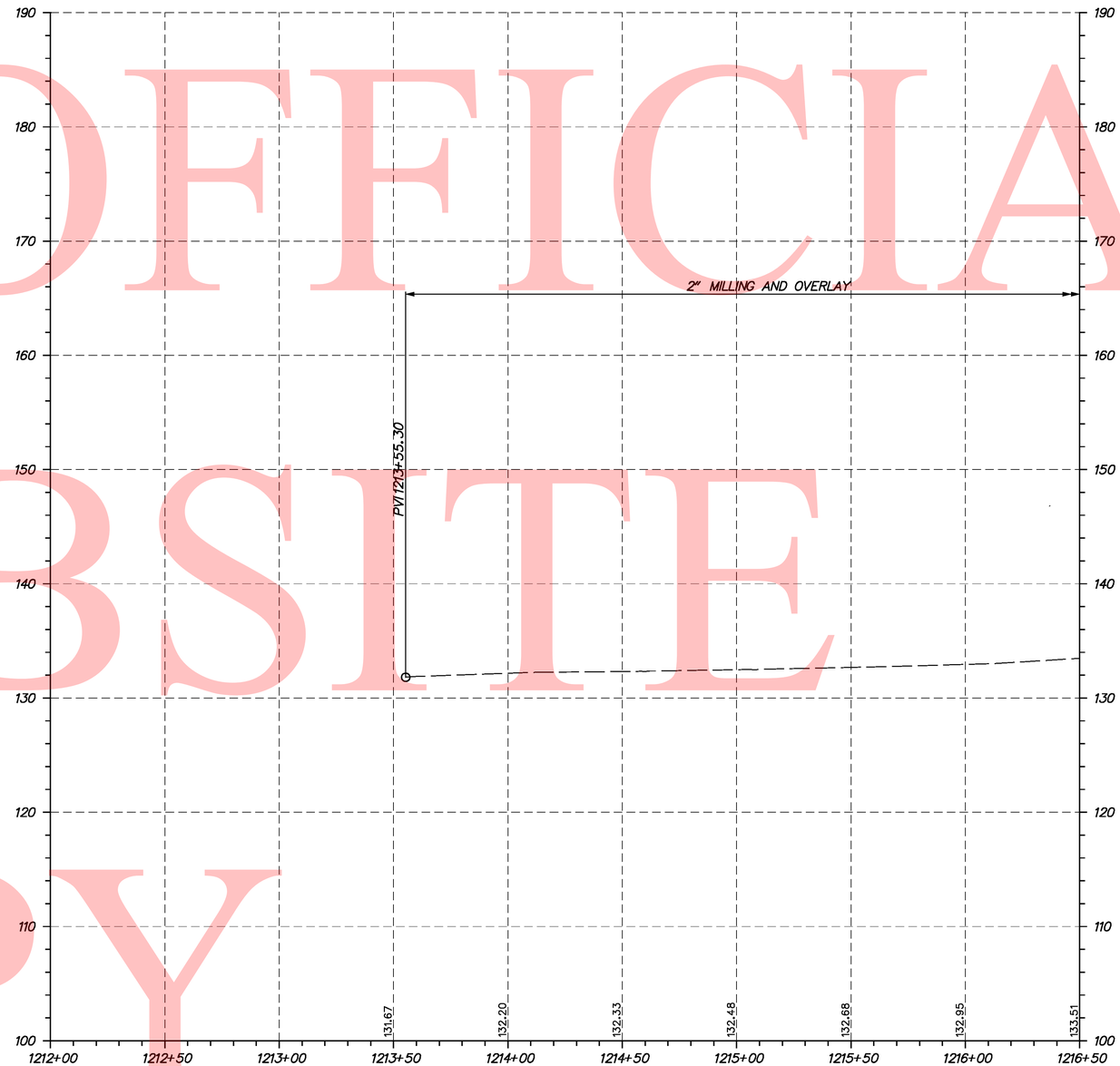

VERTICAL SCALE FEET 0 6 12 18

SR 202 SOUTHBOUND

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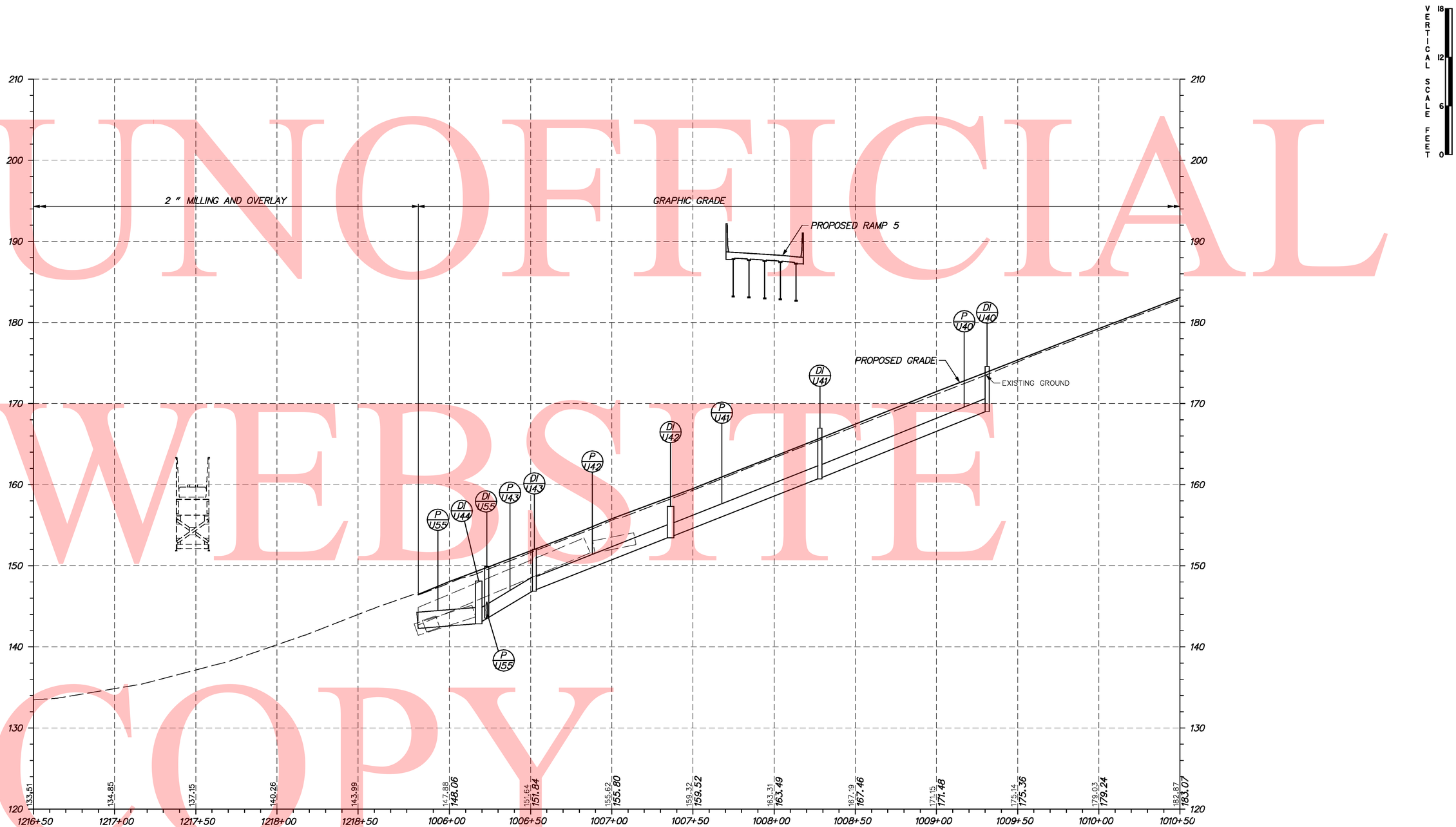
12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 41 OF 44	SHEET NO. 112
				COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
					CHECKED BY: BMD		



SR /US 202 SOUTHBOUND

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO.	NA	PROFILES PR 42 OF 44	SHEET NO. 113
				COUNTY NEW CASTLE	DESIGNED BY:	DAG		TOTAL SHTS. 482
					CHECKED BY:	BMD		

VERTICAL SCALE FEET 0 6 12 18

US 202 SOUTHBOUND

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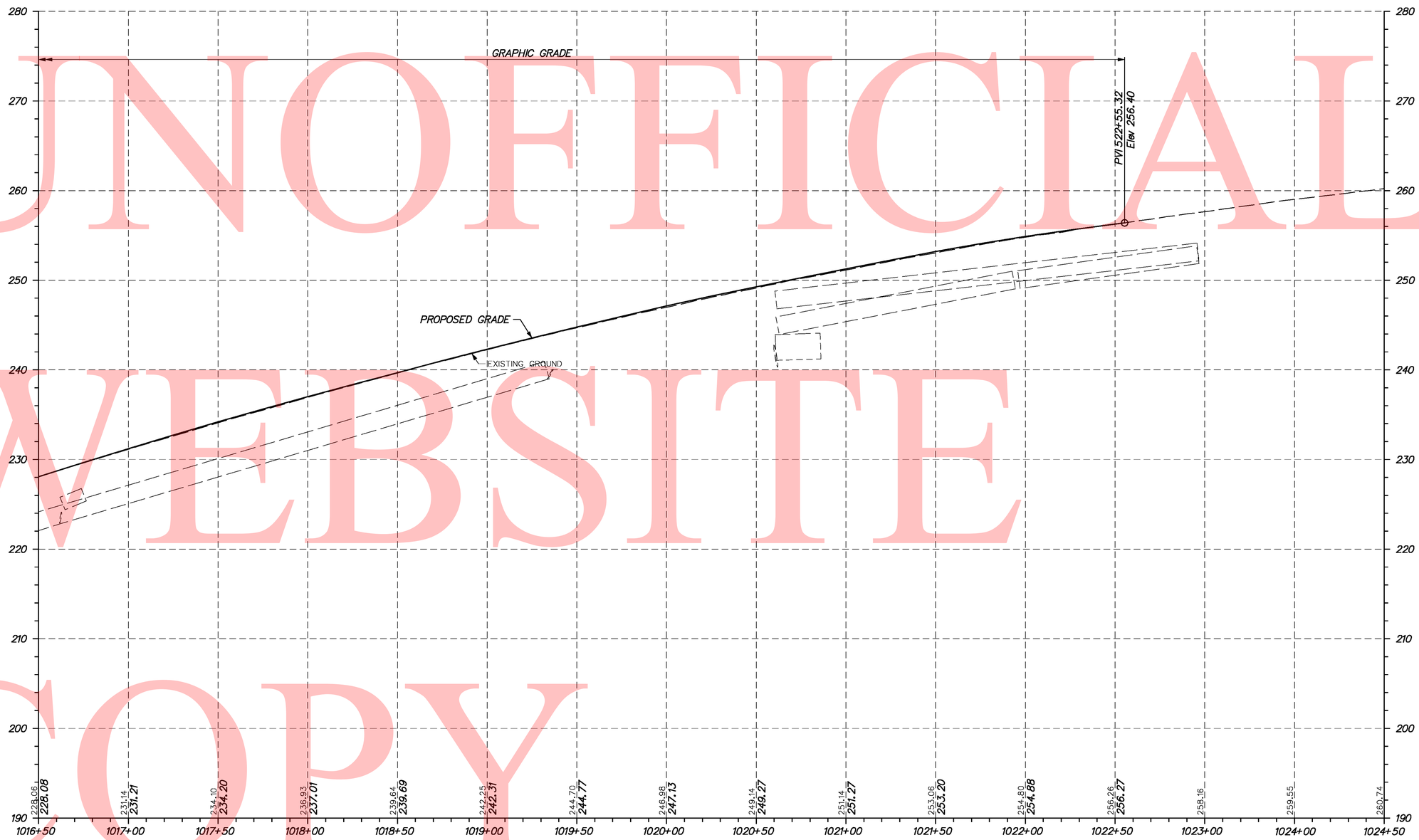
12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 43 OF 44	SHEET NO. 114
				COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
					CHECKED BY: BMD		



VERTICAL SCALE FEET 0 6 12 18

US 202 SOUTHBOUND

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12/10/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	PROFILES PR 44 OF 44	SHEET NO. 115
				COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
					CHECKED BY: BMD		

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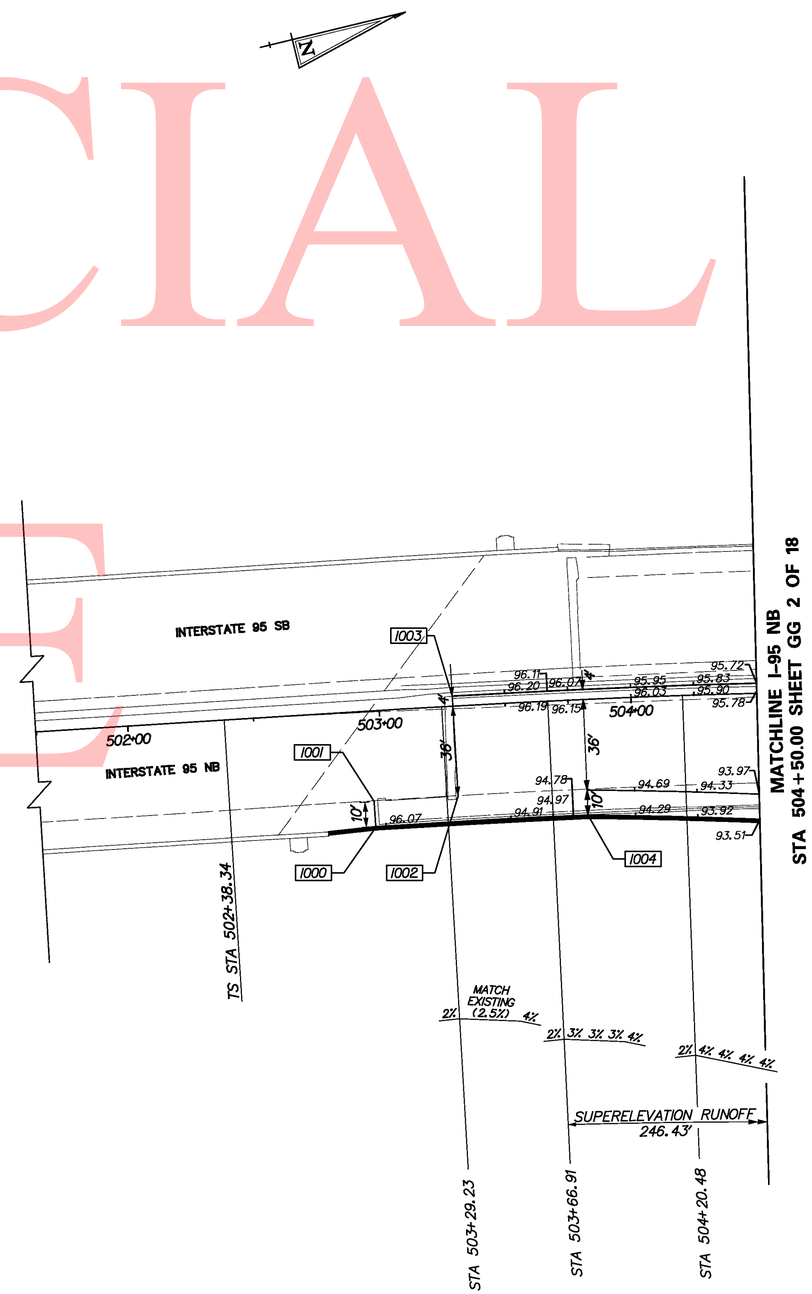
COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
1000	502+95.82	46.00	640695.3422	618170.7528
1001	502+95.79	36.00	640697.0832	618160.9054
1002	503+29.23	36.00	640729.8299	618166.8488
1003	503+29.22	-4.00	640737.0638	618127.5128
1004	503+80.91	46.00	640778.3281	618186.1911



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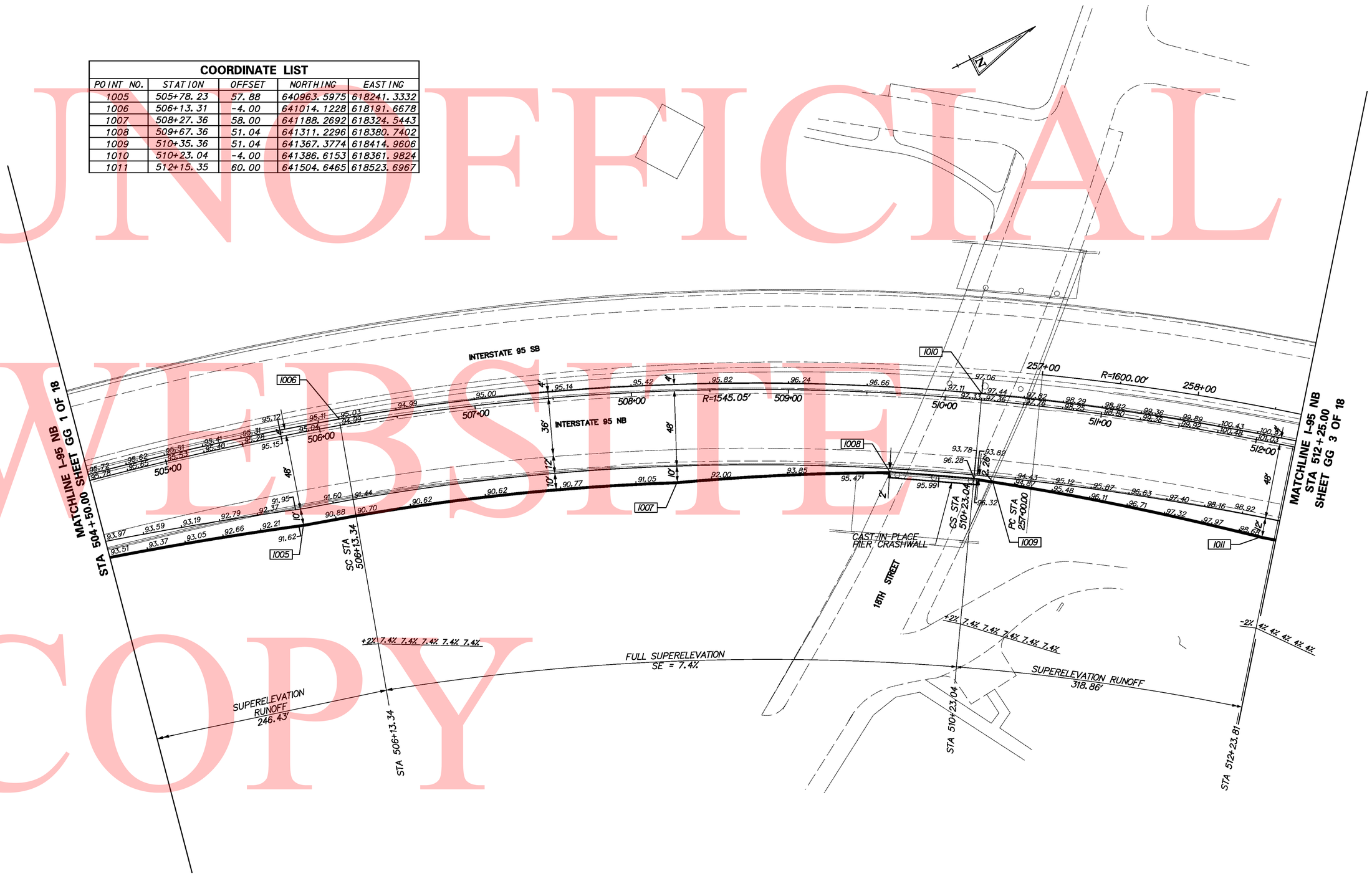
11/1/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	GRADES & GEOMETRICS GG 1 OF 18	SHEET NO. 116
				COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
					CHECKED BY: BMD		

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
1005	505+78.23	57.88	640963.5975	618241.3332
1006	506+13.31	-4.00	641014.1228	618191.6678
1007	508+27.36	58.00	641188.2692	618324.5443
1008	509+67.36	51.04	641311.2296	618380.7402
1009	510+35.36	51.04	641367.3774	618414.9606
1010	510+23.04	-4.00	641386.6153	618361.9824
1011	512+15.35	60.00	641504.6465	618523.6967



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11/11/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	GRADES & GEOMETRICS GG 2 OF 18	SHEET NO. 117
				COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
					CHECKED BY: BMD		

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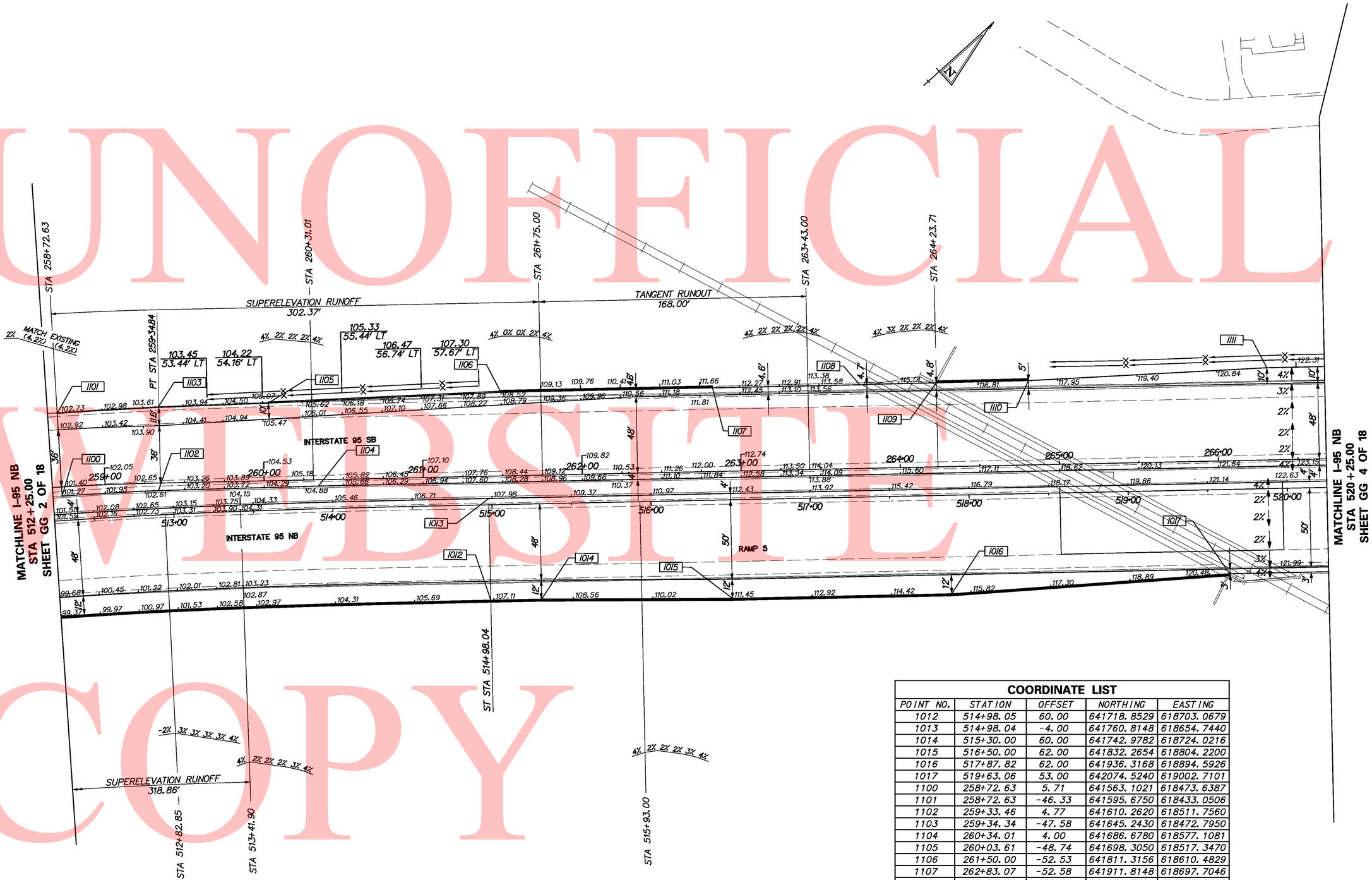

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
1012	514+98.05	60.00	641718.8529	618703.0679
1013	514+98.04	-4.00	641760.8148	618654.7440
1014	515+30.00	60.00	641742.9782	618724.0216
1015	516+50.00	62.00	641832.2654	618804.2200
1016	517+87.82	62.00	641936.3168	618894.5926
1017	519+63.06	53.00	642074.5240	619002.7101
1100	258+72.63	5.71	641563.1021	618473.6387
1101	258+72.63	-46.33	641595.6750	618433.0506
1102	259+33.46	4.77	641610.2620	618511.7560
1103	259+34.34	-47.58	641645.2430	618472.7950
1104	260+34.01	4.00	641686.6780	618577.1081
1105	260+03.61	-48.74	641698.3050	618517.3470
1106	261+50.00	-52.53	641811.3156	618610.4829
1107	262+83.07	-52.58	641911.8148	618697.7046
1108	263+75.66	-52.61	641981.7406	618758.3920
1109	264+23.76	-52.83	642018.1962	618789.7662
1110	264+81.66	-53.00	642062.0191	618827.6084
1111	266+31.66	-58.00	642178.5462	618922.1940

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1/11/2010

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

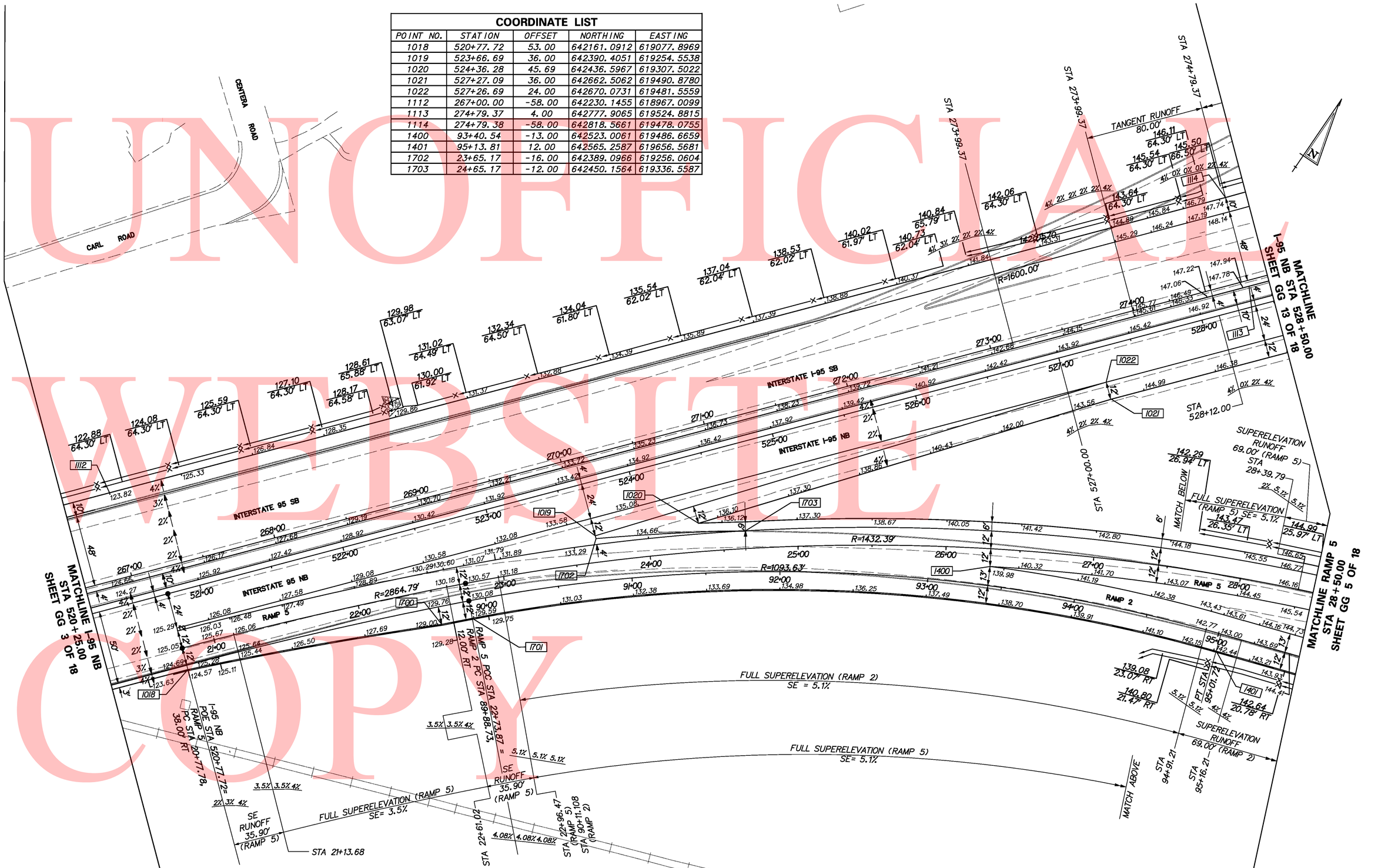
I-95 & US 202 INTERCHANGE

CONTRACT	BRIDGE NO.	NA
T200510602	DESIGNED BY:	DAG
COUNTY		
NEW CASTLE	CHECKED BY:	BMD

GRADES & GEOMETRICS
GG 3 OF 18

SHEET NO. 118
TOTAL SHTS. 482

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
1018	520+77.72	53.00	642161.0912	619077.8969
1019	523+66.69	36.00	642390.4051	619254.5538
1020	524+36.28	45.69	642436.5967	619307.5022
1021	527+27.09	36.00	642662.5062	619490.8780
1022	527+26.69	24.00	642670.0731	619481.5559
1112	267+00.00	-58.00	642230.1455	618967.0099
1113	274+79.37	4.00	642777.9065	619524.8815
1114	274+79.38	-58.00	642818.5661	619478.0755
1400	93+40.54	-13.00	642523.0061	619486.6659
1401	95+13.81	12.00	642565.2587	619656.5681
1702	23+65.17	-16.00	642389.0966	619256.0604
1703	24+65.17	-12.00	642450.1564	619336.5587



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11/11/2010

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

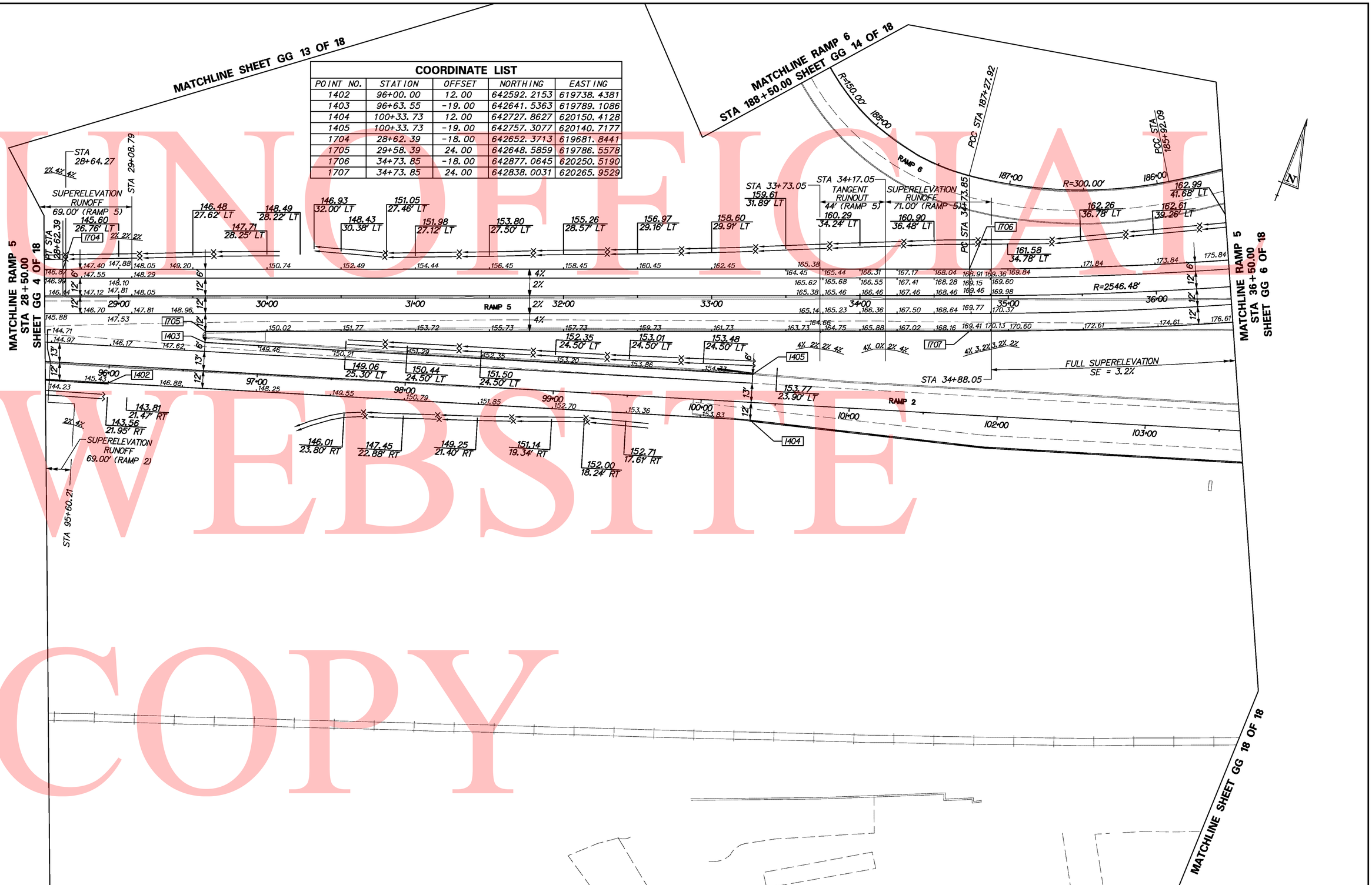
I-95 & US 202 INTERCHANGE

CONTRACT	BRIDGE NO.	NA
T200510602	DESIGNED BY:	DAG
COUNTY		
NEW CASTLE	CHECKED BY:	BMD

GRADES & GEOMETRICS
GG 4 OF 18

SHEET NO.
119
TOTAL SHTS.
482

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
1402	96+00.00	12.00	642592.2153	619738.4381
1403	96+63.55	-19.00	642641.5363	619789.1086
1404	100+33.73	12.00	642727.8627	620150.4128
1405	100+33.73	-19.00	642757.3077	620140.7177
1704	28+62.39	-18.00	642652.3713	619681.8441
1705	29+58.39	24.00	642648.5859	619786.5578
1706	34+73.85	-18.00	642877.0645	620250.5190
1707	34+73.85	24.00	642838.0031	620265.9529



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11/1/2010

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

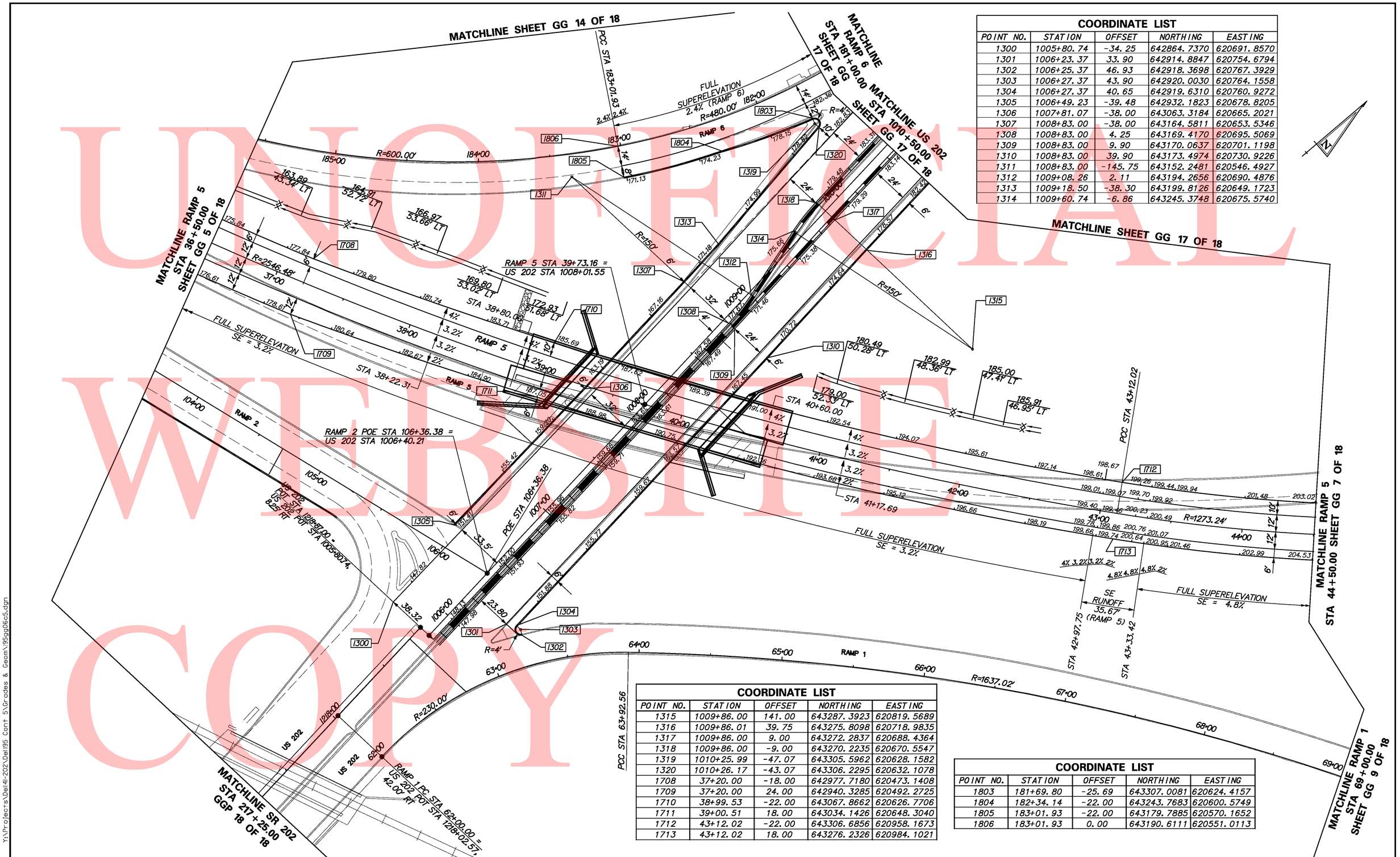
SCALE 0 30 60 90 FEET

I-95 & US 202 INTERCHANGE

CONTRACT	BRIDGE NO.	NA
T200510602	DESIGNED BY:	DAG
COUNTY		
NEW CASTLE	CHECKED BY:	BMD

GRADES & GEOMETRICS
GG 5 OF 18

SHEET NO. 120
TOTAL SHTS. 482



COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
1300	1005+80.74	-34.25	642864.7370	620691.8570
1301	1006+23.37	33.90	642914.8847	620754.6794
1302	1006+25.37	46.93	642918.3698	620767.3929
1303	1006+27.37	43.90	642920.0030	620764.1558
1304	1006+27.37	40.65	642919.6310	620760.9272
1305	1006+49.23	-39.48	642932.1823	620678.8205
1306	1007+81.07	-38.00	643063.3184	620665.2021
1307	1008+83.00	-38.00	643164.5811	620653.5346
1308	1008+83.00	4.25	643169.4170	620695.5069
1309	1008+83.00	9.90	643170.0637	620701.1198
1310	1008+83.00	39.90	643173.4974	620730.9226
1311	1008+83.00	-145.75	643152.2481	620546.4927
1312	1009+08.26	2.11	643194.2656	620690.4876
1313	1009+18.50	-38.30	643199.8126	620649.1723
1314	1009+60.74	-6.86	643245.3748	620675.5740

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
1315	1009+86.00	141.00	643287.3923	620819.5689
1316	1009+86.01	39.75	643275.8098	620718.9835
1317	1009+86.00	9.00	643272.2837	620688.4364
1318	1009+86.00	-9.00	643270.2235	620670.5547
1319	1010+25.99	-47.07	643305.5962	620628.1582
1320	1010+26.17	-43.07	643306.2295	620632.1078
1708	37+20.00	-18.00	642977.7180	620473.1408
1709	37+20.00	24.00	642940.3285	620492.2725
1710	38+99.53	-22.00	643067.8662	620626.7706
1711	39+00.51	18.00	643034.1426	620648.3040
1712	43+12.02	-22.00	643306.6856	620958.1673
1713	43+12.02	18.00	643276.2326	620984.1021

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
1803	181+69.80	-25.69	643307.0081	620624.4157
1804	182+34.14	-22.00	643243.7683	620600.5749
1805	183+01.93	-22.00	643179.7885	620570.1652
1806	183+01.93	0.00	643190.6111	620551.0113

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11/1/2010

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

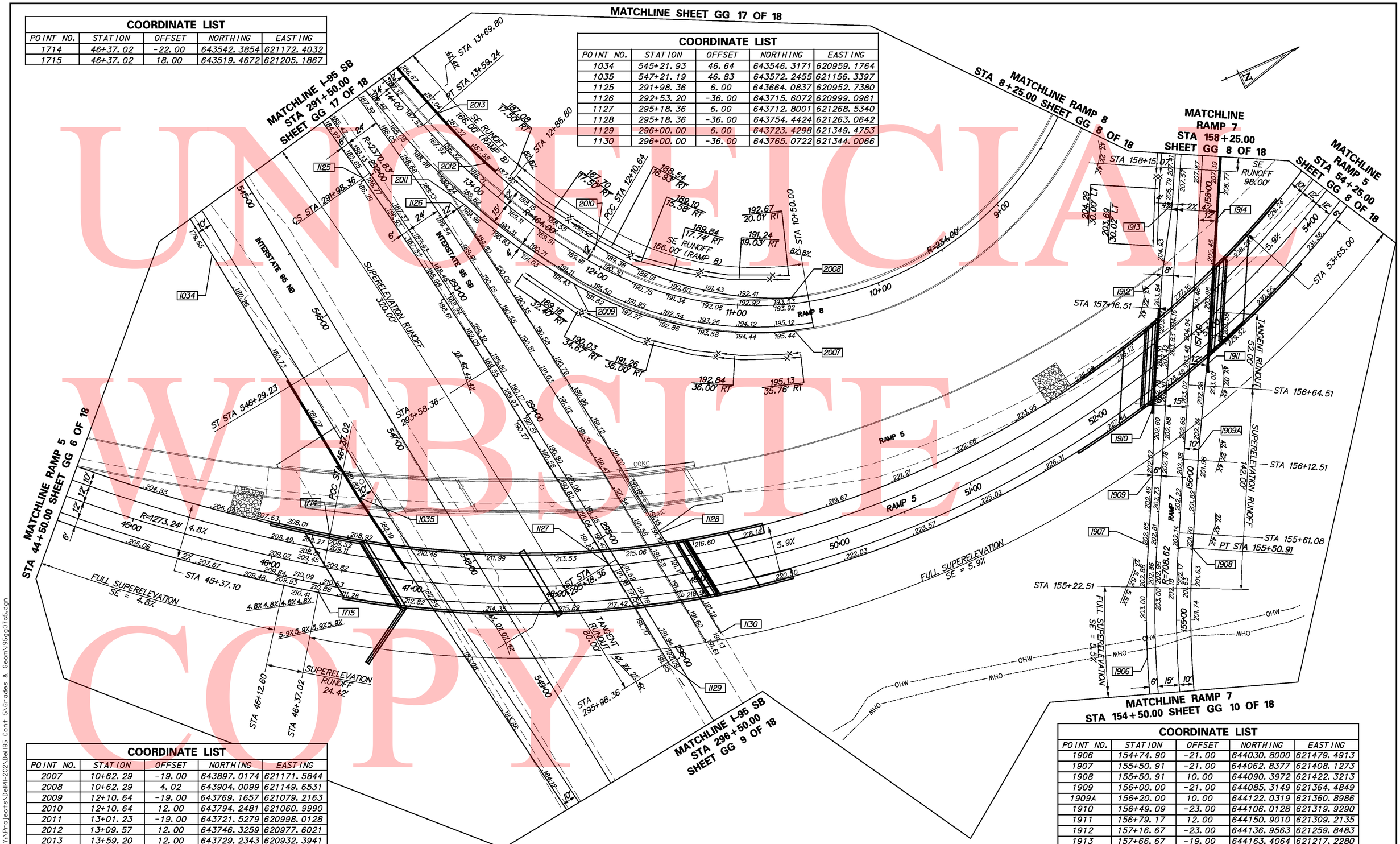
I-95 & US 202 INTERCHANGE

CONTRACT	BRIDGE NO.	NA
T200510602	DESIGNED BY:	DAG
COUNTY	CHECKED BY:	BMD
NEW CASTLE		

GRADES & GEOMETRICS GG 6 OF 18

SHEET NO. 121

TOTAL SHTS. 482



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COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
1714	46+37.02	-22.00	643542.3854	621172.4032
1715	46+37.02	18.00	643519.4672	621205.1867

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
1034	545+21.93	46.64	643546.3171	620959.1764
1035	547+21.19	46.83	643572.2455	621156.3397
1125	291+98.36	6.00	643664.0837	620952.7380
1126	292+53.20	-36.00	643715.6072	620999.0961
1127	295+18.36	6.00	643712.8001	621268.5340
1128	295+18.36	-36.00	643754.4424	621263.0642
1129	296+00.00	6.00	643723.4298	621349.4753
1130	296+00.00	-36.00	643765.0722	621344.0066

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
2007	10+62.29	-19.00	643897.0174	621171.5844
2008	10+62.29	4.02	643904.0099	621149.6531
2009	12+10.64	-19.00	643769.1657	621079.2163
2010	12+10.64	12.00	643794.2481	621060.9990
2011	13+01.23	-19.00	643721.5279	620998.0128
2012	13+09.57	12.00	643746.3259	620977.6021
2013	13+59.20	12.00	643729.2343	620932.3941

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
1906	154+74.90	-21.00	644030.8000	621479.4913
1907	155+50.91	-21.00	644062.8377	621408.1273
1908	155+50.91	10.00	644090.3972	621422.3213
1909	156+00.00	-21.00	644085.3149	621364.4849
1909A	156+20.00	10.00	644122.0319	621360.8986
1910	156+49.09	-23.00	644106.0128	621319.9290
1911	156+79.17	12.00	644150.9010	621309.2135
1912	157+16.67	-23.00	644136.9563	621259.8483
1913	157+66.67	-19.00	644163.4064	621217.2280
1914	157+80.00	12.00	644197.0694	621219.5714

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11/11/2010

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

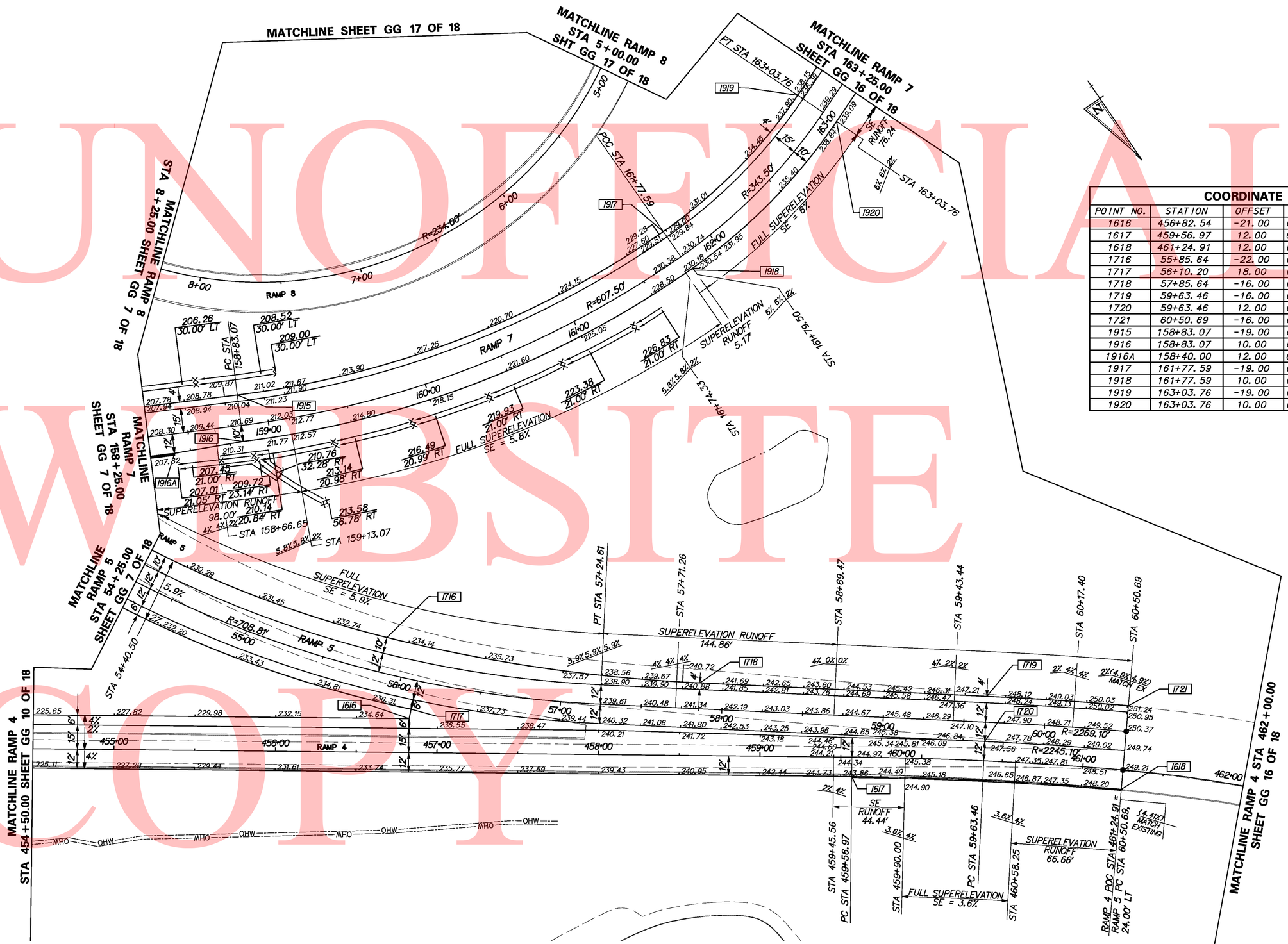
SCALE 0 30 60 90 FEET

I-95 & US 202 INTERCHANGE

CONTRACT	BRIDGE NO.	NA
T200510602	DESIGNED BY:	DAG
COUNTY		
NEW CASTLE	CHECKED BY:	BMD

GRADES & GEOMETRICS
GG 7 OF 18

SHEET NO. 122
TOTAL SHTS. 482



COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
1616	456+82.54	-21.00	644442.2680	621139.2201
1617	459+56.97	12.00	644626.5607	620933.2177
1618	461+24.91	12.00	644727.3040	620800.0227
1716	55+85.64	-22.00	644393.0009	621122.1092
1717	56+10.20	18.00	644438.1220	621134.8829
1718	57+85.64	-16.00	644525.6572	620978.1434
1719	59+63.46	-16.00	644632.7806	620836.2064
1720	59+63.46	12.00	644655.1298	620853.0739
1721	60+50.69	-16.00	644687.0329	620767.1253
1915	158+83.07	-19.00	644216.7030	621113.7457
1916	158+83.07	10.00	644242.4845	621127.0240
1916A	158+40.00	12.00	644224.5417	621166.2303
1917	161+77.59	-19.00	644281.9908	620838.8682
1918	161+77.59	10.00	644310.9896	620838.6011
1919	163+03.76	-19.00	644259.2745	620722.5455
1920	163+03.76	10.00	644286.2444	620711.8860

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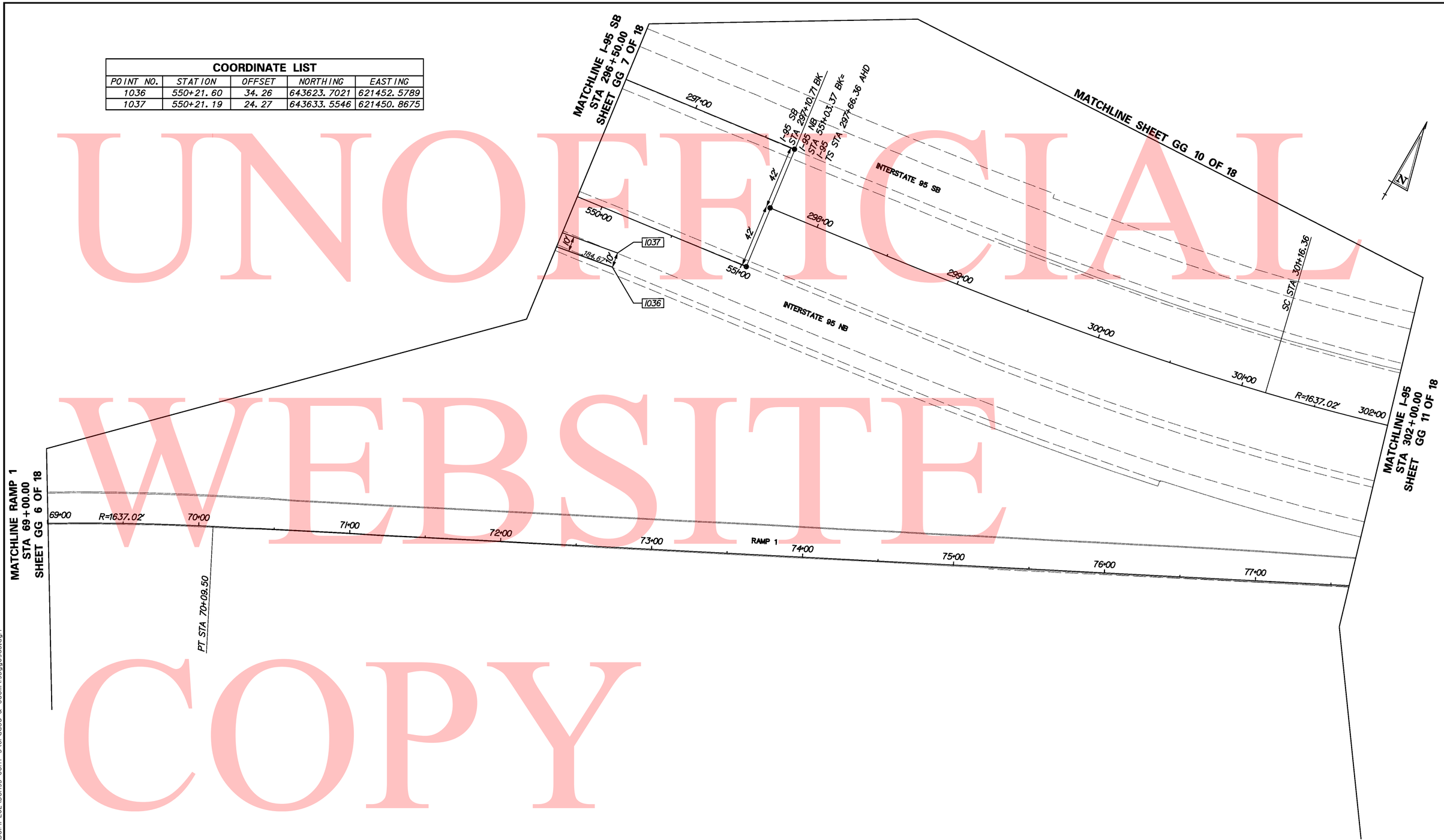
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	GRADES & GEOMETRICS GG 8 OF 18	SHEET NO. 123
				COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
					CHECKED BY: BMD		

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
1036	550+21.60	34.26	643623.7021	621452.5789
1037	550+21.19	24.27	643633.5546	621450.8675



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11/11/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	GRADES & GEOMETRICS GG 9 OF 18	SHEET NO. 124
				COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
					CHECKED BY: BMD		

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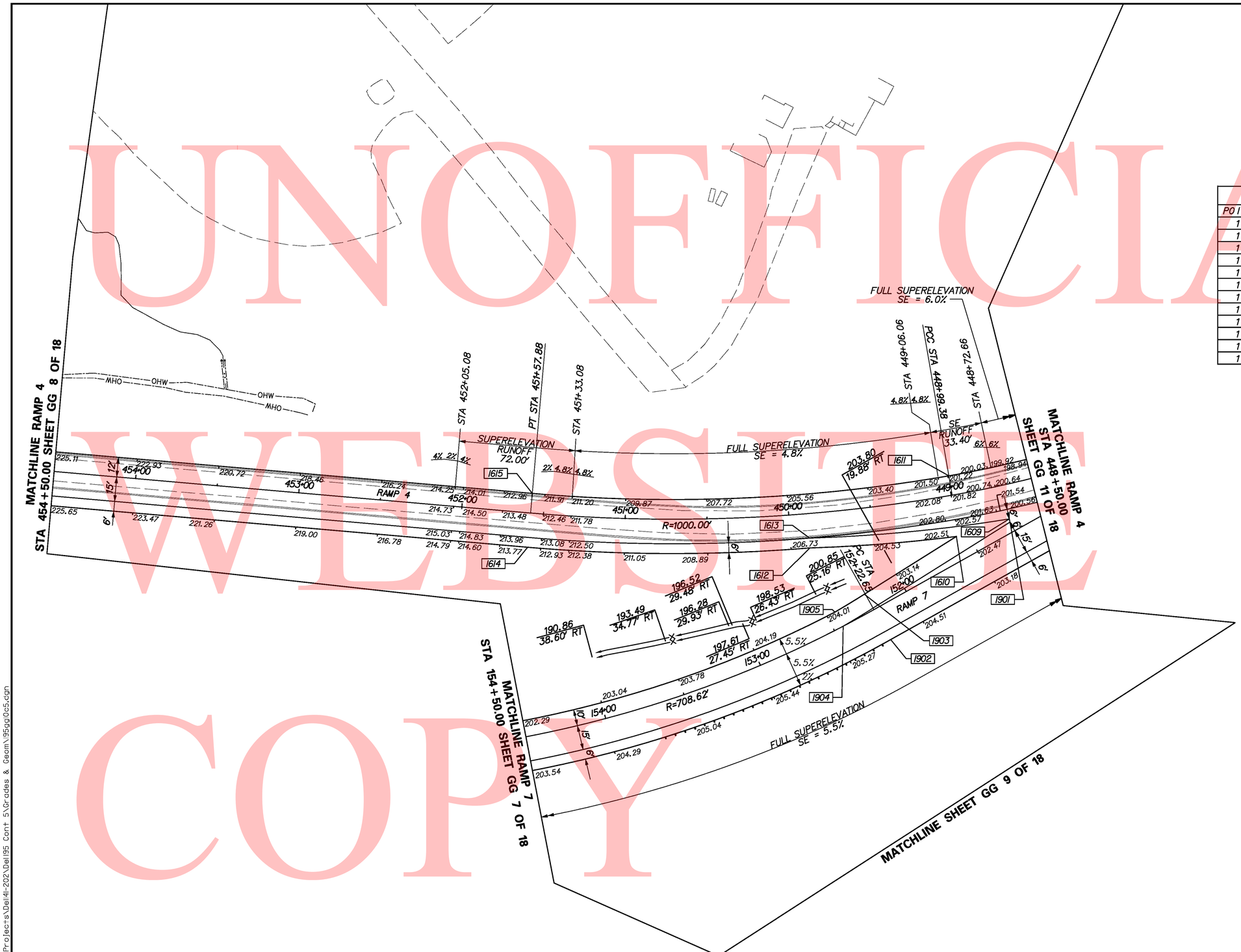

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
1609	448+68.46	-21.00	644009.6064	621832.7508
1610	449+01.10	-25.29	644016.4743	621799.4206
1611	448+99.38	12.00	644050.8700	621813.9219
1612	449+88.76	-21.00	644055.1077	621718.3992
1613	449+88.46	-15.00	644060.4030	621721.2370
1614	451+57.88	-21.00	644141.6407	621569.2081
1615	451+57.88	12.00	644168.6861	621588.1170
1901	151+24.01	6.00	644007.6985	621832.1506
1902	152+22.65	-21.00	643981.9194	621733.1827
1903	152+23.16	11.06	644013.9785	621733.0788
1904	152+44.01	0.00	644003.5035	621712.0911
1905	152+44.51	10.00	644013.5159	621712.0171

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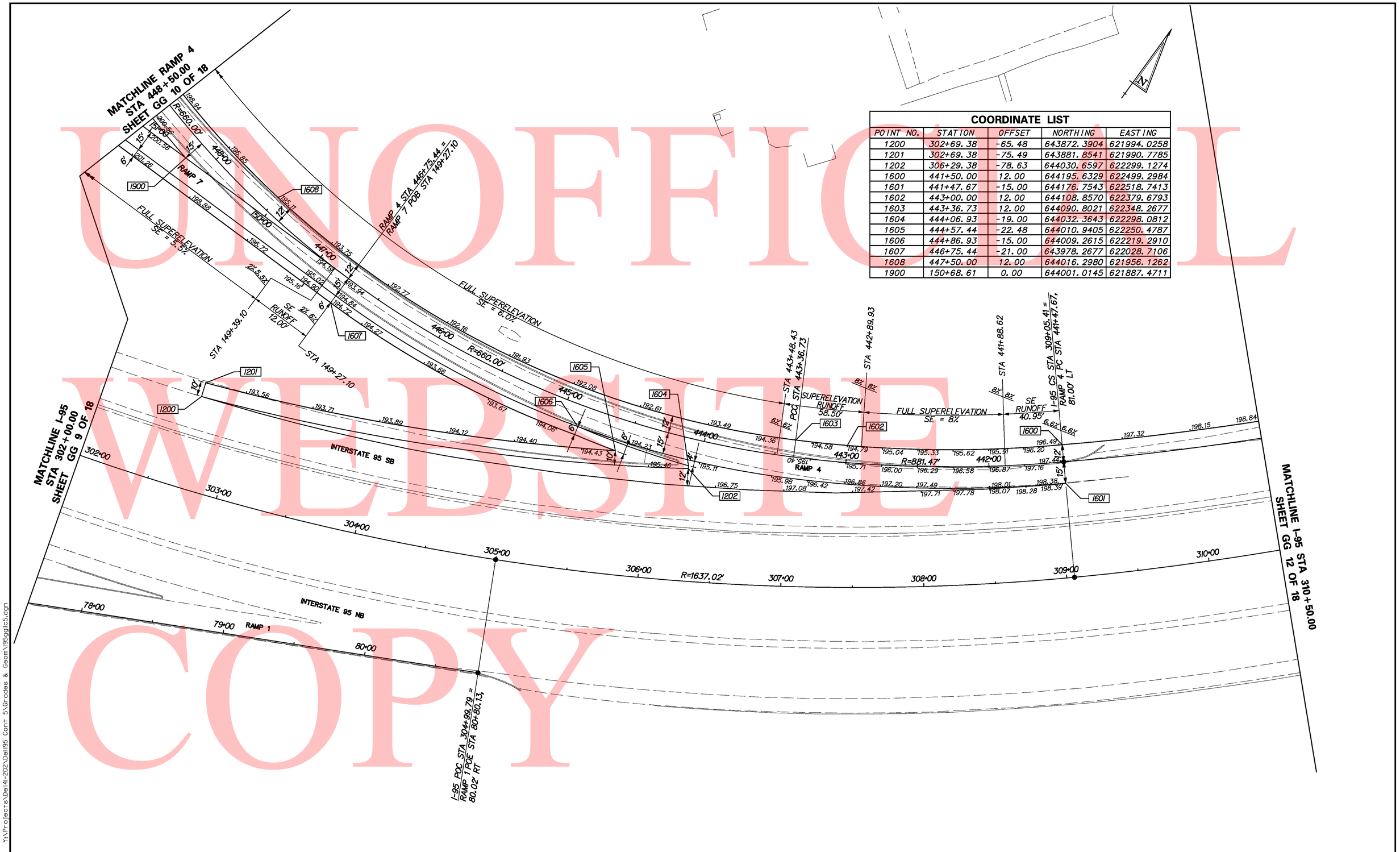
11/1/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	GRADES & GEOMETRICS GG 10 OF 18	SHEET NO. 125
				COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
					CHECKED BY: BMD		



COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
1200	302+69.38	-65.48	643872.3904	621994.0258
1201	302+69.38	-75.49	643881.8541	621990.7785
1202	306+29.38	-78.63	644030.6597	622299.1274
1600	441+50.00	12.00	644195.6329	622499.2984
1601	441+47.67	-15.00	644176.7543	622518.7413
1602	443+00.00	12.00	644108.8570	622379.6793
1603	443+36.73	12.00	644090.8021	622348.2677
1604	444+06.93	-19.00	644032.3643	622298.0812
1605	444+57.44	-22.48	644010.9405	622250.4787
1606	444+86.93	-15.00	644009.2615	622219.2910
1607	446+75.44	-21.00	643978.2677	622028.7106
1608	447+50.00	12.00	644016.2980	621956.1262
1900	150+68.61	0.00	644001.0145	621887.4711

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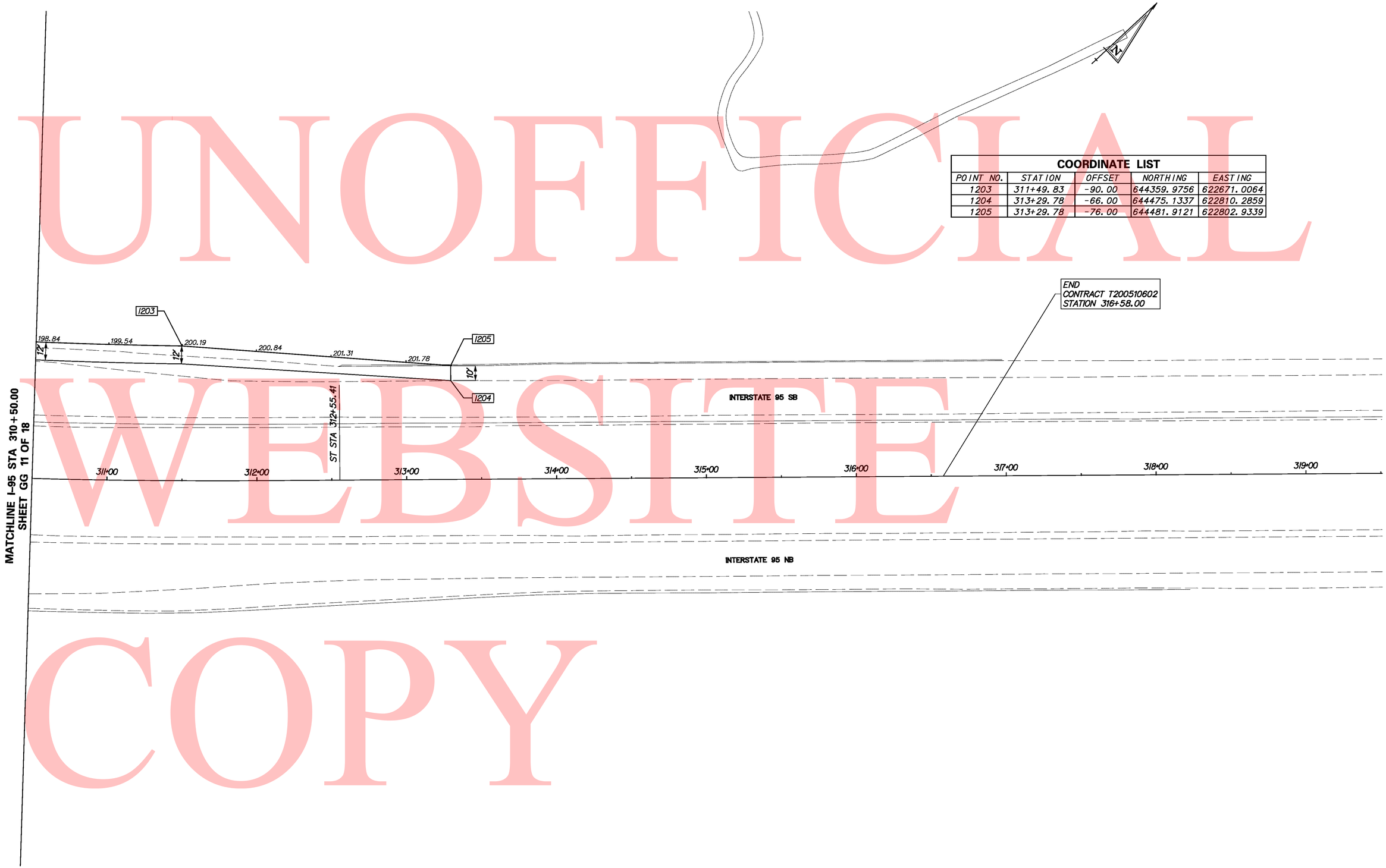
11/1/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	GRADES & GEOMETRICS GG 11 OF 18	SHEET NO. 126
				COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
					CHECKED BY: BMD		



COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
1203	311+49.83	-90.00	644359.9756	622671.0064
1204	313+29.78	-66.00	644475.1337	622810.2859
1205	313+29.78	-76.00	644481.9121	622802.9339

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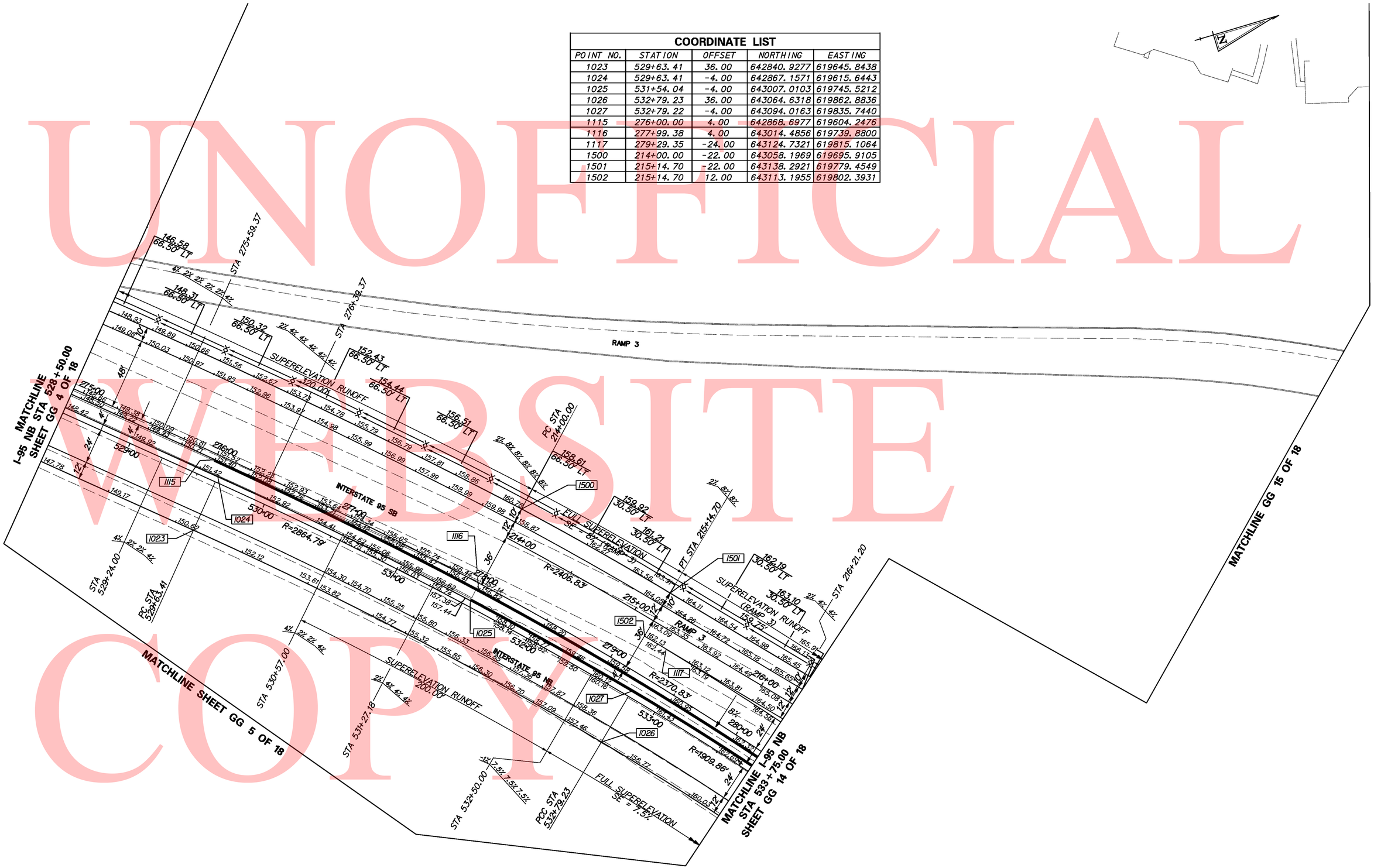
1/11/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	GRADES & GEOMETRICS GG 12 OF 18	SHEET NO. 127
				COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
					CHECKED BY: BMD		

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
1023	529+63.41	36.00	642840.9277	619645.8438
1024	529+63.41	-4.00	642867.1571	619615.6443
1025	531+54.04	-4.00	643007.0103	619745.5212
1026	532+79.23	36.00	643064.6318	619862.8836
1027	532+79.22	-4.00	643094.0163	619835.7440
1115	276+00.00	4.00	642868.6977	619604.2476
1116	277+99.38	4.00	643014.4856	619739.8800
1117	279+29.35	-24.00	643124.7321	619815.1064
1500	214+00.00	-22.00	643058.1969	619695.9105
1501	215+14.70	-22.00	643138.2921	619779.4549
1502	215+14.70	12.00	643113.1955	619802.3931



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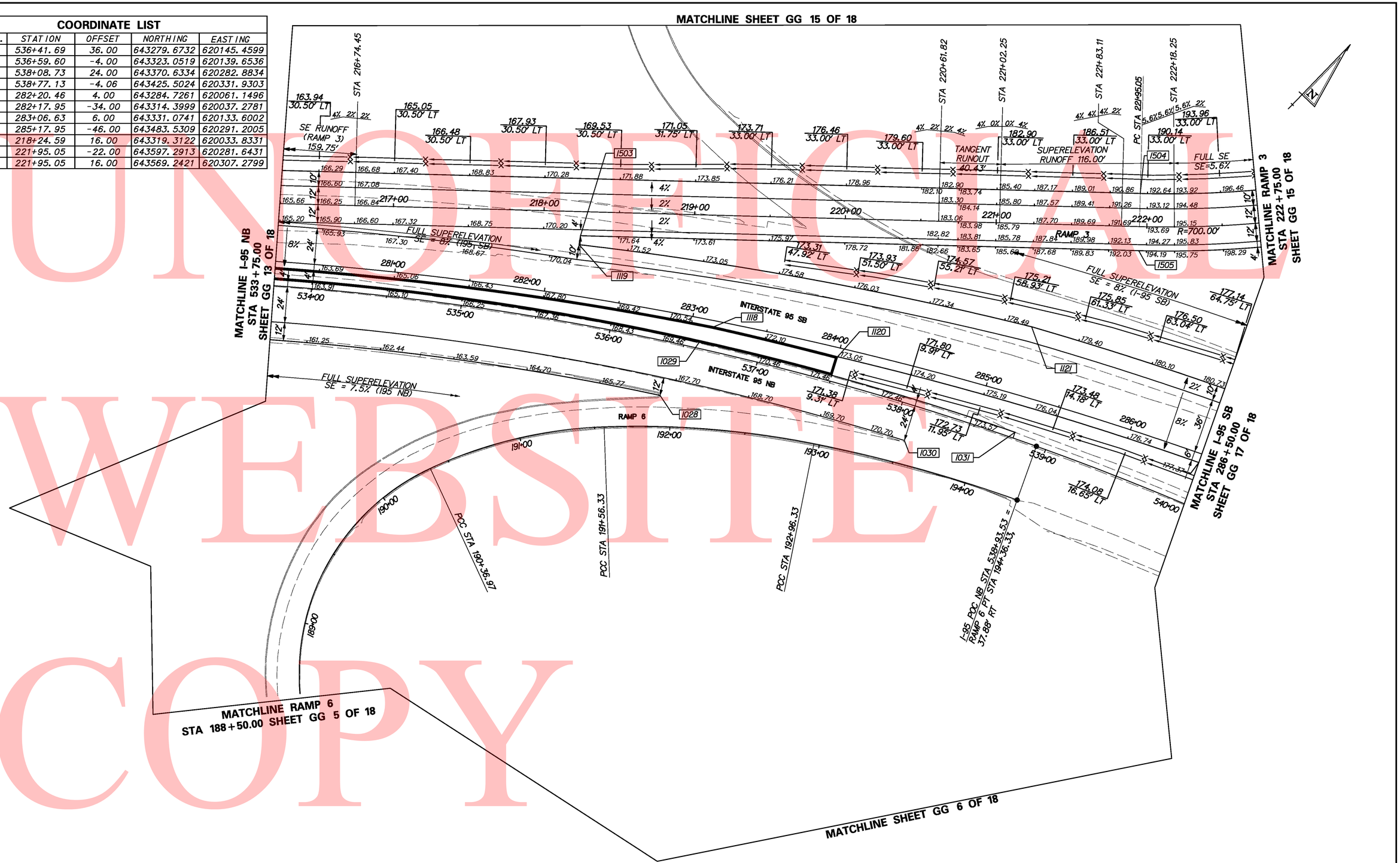
11/11/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	GRADES & GEOMETRICS GG 13 OF 18	SHEET NO. 128
				COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
					CHECKED BY: BMD		

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
1028	536+41.69	36.00	643279.6732	620145.4599
1029	536+59.60	-4.00	643323.0519	620139.6536
1030	538+08.73	24.00	643370.6334	620282.8834
1031	538+77.13	-4.06	643425.5024	620331.9303
1118	282+20.46	4.00	643284.7261	620061.1496
1119	282+17.95	-34.00	643314.3999	620037.2781
1120	283+06.63	6.00	643331.0741	620133.6002
1121	285+17.95	-46.00	643483.5309	620291.2005
1503	218+24.59	16.00	643319.3122	620033.8331
1504	221+95.05	-22.00	643597.2913	620281.6431
1505	221+95.05	16.00	643569.2421	620307.2799



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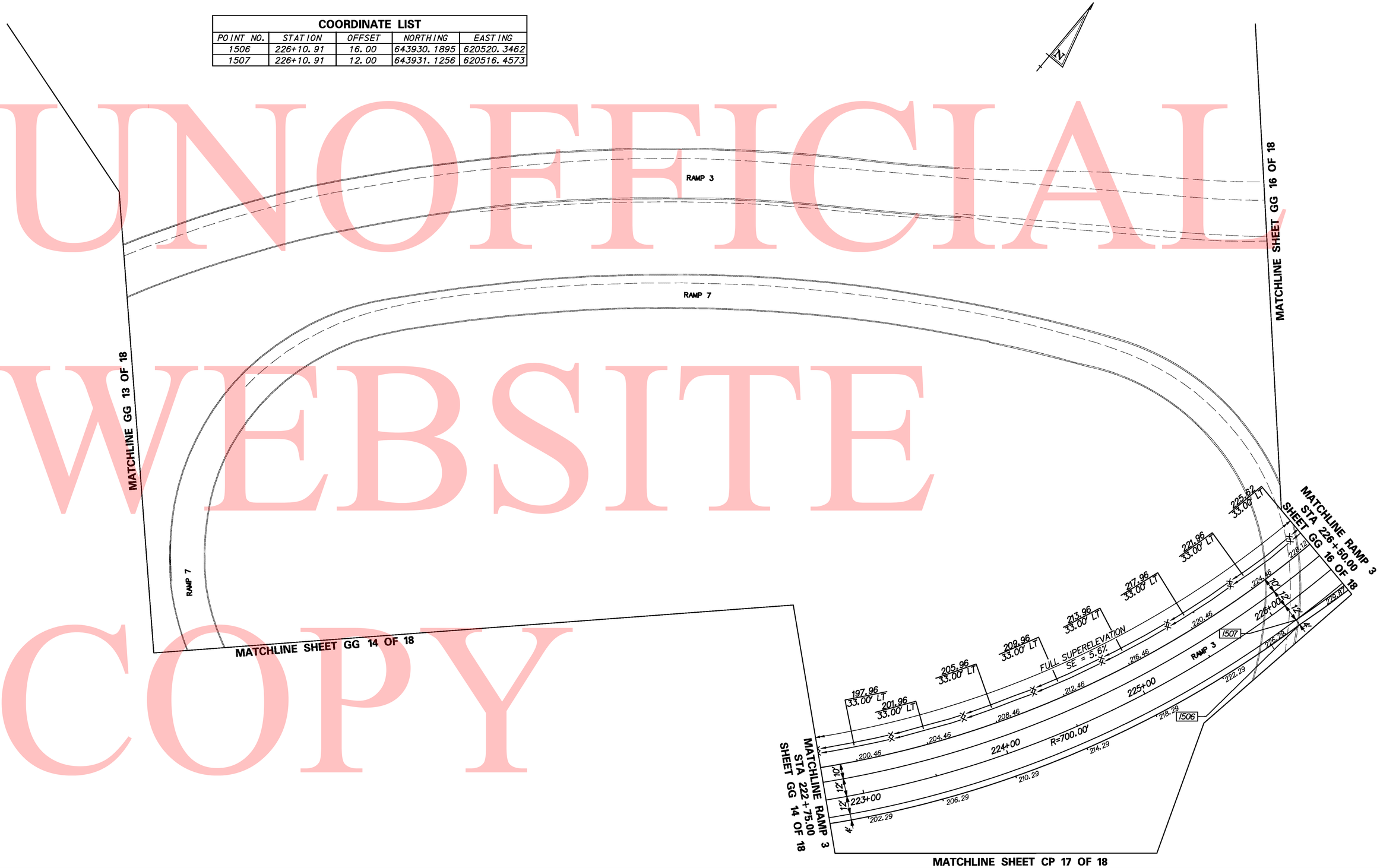
1/1/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	GRADES & GEOMETRICS GG 14 OF 18	SHEET NO. 129
				COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
					CHECKED BY: BMD		

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
1506	226+10.91	16.00	643930.1895	620520.3462
1507	226+10.91	12.00	643931.1256	620516.4573



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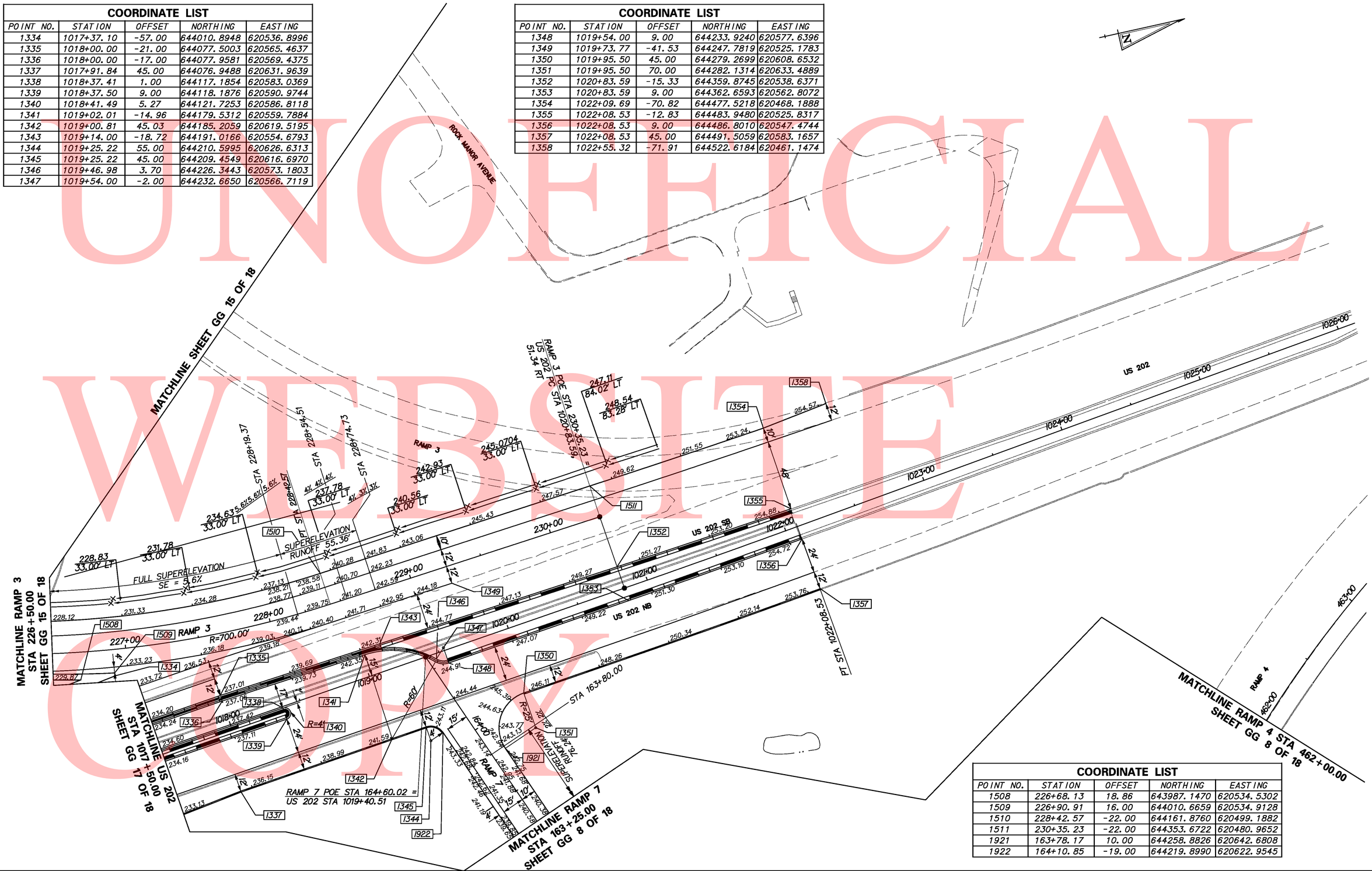
11/11/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	GRADES & GEOMETRICS GG 15 OF 18	SHEET NO. 130
				COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
					CHECKED BY: BMD		

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
1334	1017+37.10	-57.00	644010.8948	620536.8996
1335	1018+00.00	-21.00	644077.5003	620565.4637
1336	1018+00.00	-17.00	644077.9581	620569.4375
1337	1017+91.84	45.00	644076.9488	620631.9639
1338	1018+37.41	1.00	644117.1854	620583.0369
1339	1018+37.50	9.00	644118.1876	620590.9744
1340	1018+41.49	5.27	644121.7253	620586.8118
1341	1019+02.01	-14.96	644179.5312	620559.7884
1342	1019+00.81	45.03	644185.2059	620619.5195
1343	1019+14.00	-18.72	644191.0166	620554.6793
1344	1019+25.22	55.00	644210.5995	620626.6313
1345	1019+25.22	45.00	644209.4549	620616.6970
1346	1019+46.98	3.70	644226.3443	620573.1803
1347	1019+54.00	-2.00	644232.6650	620566.7119

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
1348	1019+54.00	9.00	644233.9240	620577.6396
1349	1019+73.77	-41.53	644247.7819	620525.1783
1350	1019+95.50	45.00	644279.2699	620608.6532
1351	1019+95.50	70.00	644282.1314	620633.4889
1352	1020+83.59	-15.33	644359.8745	620538.6371
1353	1020+83.59	9.00	644362.6593	620562.8072
1354	1022+09.69	-70.82	644477.5218	620468.1888
1355	1022+08.53	-12.83	644483.9480	620525.8317
1356	1022+08.53	9.00	644486.8010	620547.4744
1357	1022+08.53	45.00	644491.5059	620583.1657
1358	1022+55.32	-71.91	644522.6184	620461.1474



COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
1508	226+68.13	18.86	643987.1470	620534.5302
1509	226+90.91	16.00	644010.6659	620534.9128
1510	228+42.57	-22.00	644161.8760	620499.1882
1511	230+35.23	-22.00	644353.6722	620480.9652
1921	163+78.17	10.00	644258.8826	620642.6808
1922	164+10.85	-19.00	644219.8990	620622.9545

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11/11/2010

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

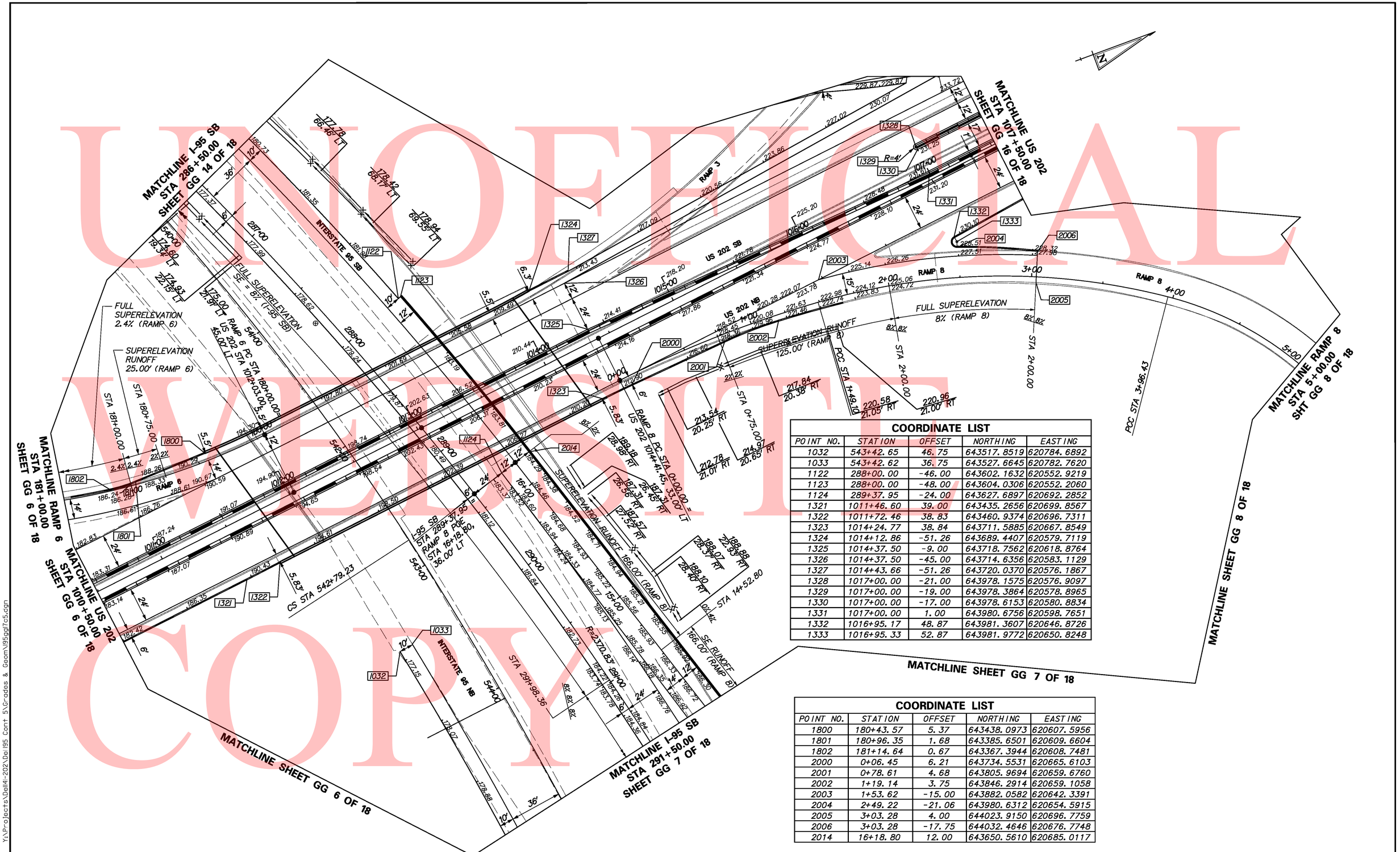
SCALE 0 30 60 90 FEET

I-95 & US 202 INTERCHANGE

CONTRACT	BRIDGE NO.	NA
T200510602	DESIGNED BY:	DAG
COUNTY		
NEW CASTLE	CHECKED BY:	BMD

GRADES & GEOMETRICS
GG 16 OF 18

SHEET NO. 131
TOTAL SHTS. 482



COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
1032	543+42.65	46.75	643517.8519	620784.6892
1033	543+42.62	36.75	643527.6645	620782.7620
1122	288+00.00	-46.00	643602.1632	620552.9219
1123	288+00.00	-48.00	643604.0306	620552.2060
1124	289+37.95	-24.00	643627.6897	620692.2852
1321	1011+46.60	39.00	643435.2656	620699.8567
1322	1011+72.46	38.83	643460.9374	620696.7311
1323	1014+24.77	38.84	643711.5885	620667.8549
1324	1014+12.86	-51.26	643689.4407	620579.7119
1325	1014+37.50	-9.00	643718.7562	620618.8764
1326	1014+37.50	-45.00	643714.6356	620583.1129
1327	1014+43.66	-51.26	643720.0370	620576.1867
1328	1017+00.00	-21.00	643978.1575	620576.9097
1329	1017+00.00	-19.00	643978.3864	620578.8965
1330	1017+00.00	-17.00	643978.6153	620580.8834
1331	1017+00.00	1.00	643980.6756	620598.7651
1332	1016+95.17	48.87	643981.3607	620646.8726
1333	1016+95.33	52.87	643981.9772	620650.8248

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
1800	180+43.57	5.37	643438.0973	620607.5956
1801	180+96.35	1.68	643385.6501	620609.6604
1802	181+14.64	0.67	643367.3944	620608.7481
2000	0+06.45	6.21	643734.5531	620665.6103
2001	0+78.61	4.68	643805.9694	620659.6760
2002	1+19.14	3.75	643846.2914	620659.1058
2003	1+53.62	-15.00	643882.0582	620642.3391
2004	2+49.22	-21.06	643980.6312	620654.5915
2005	3+03.28	4.00	644023.9150	620696.7759
2006	3+03.28	-17.75	644032.4646	620676.7748
2014	16+18.80	12.00	643650.5610	620685.0117

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11/11/2010

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE
0 30 60 90
FEET

I-95 & US 202 INTERCHANGE

CONTRACT	BRIDGE NO.	NA
T200510602	DESIGNED BY:	DAG
COUNTY		
NEW CASTLE	CHECKED BY:	BMD

GRADES & GEOMETRICS
GG 17 OF 18

SHEET NO. 132
TOTAL SHTS. 482

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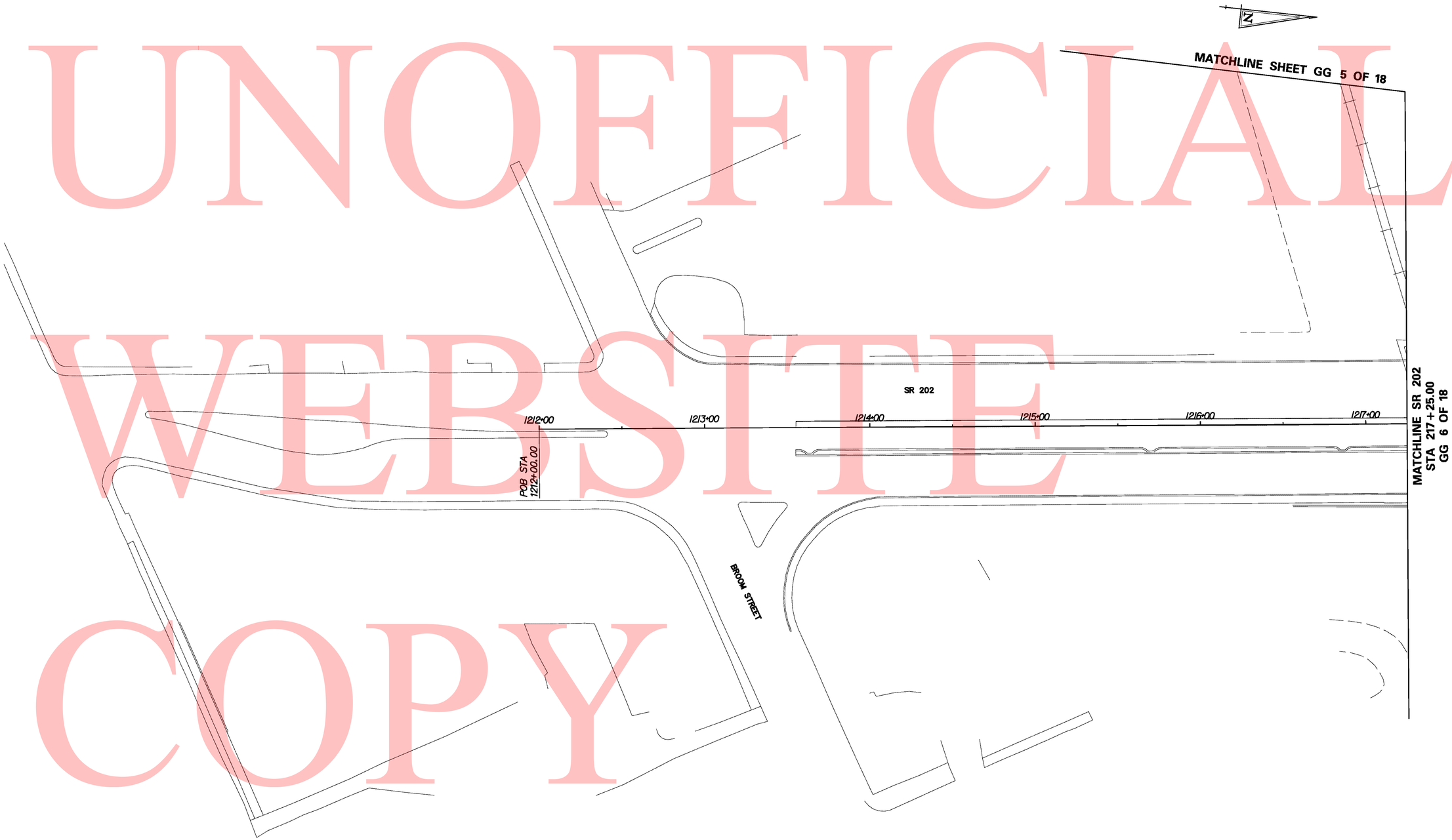

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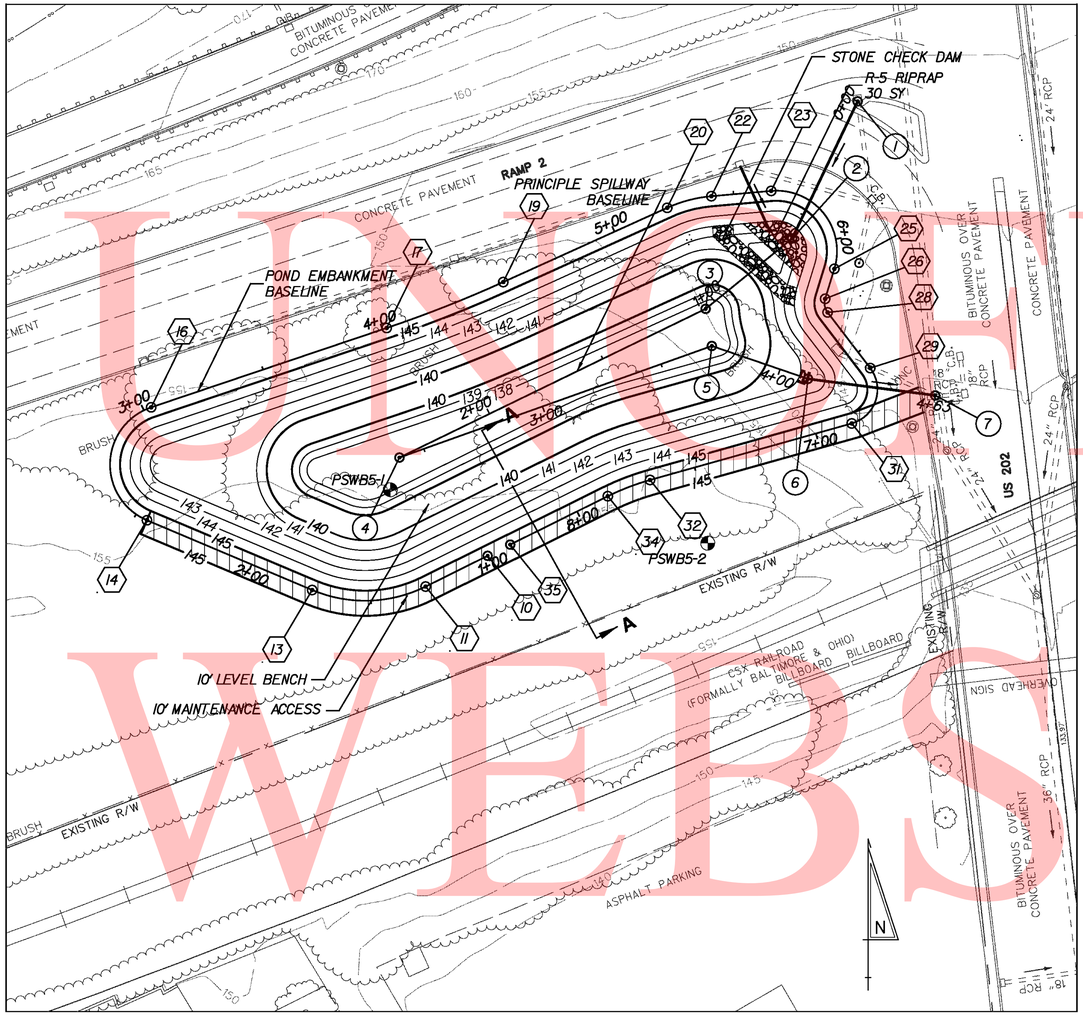
11/1/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	GRADES & GEOMETRICS GG 18 OF 18	SHEET NO. 133
				COUNTY NEW CASTLE	DESIGNED BY: DAG		TOTAL SHTS. 482
					CHECKED BY: BMD		



PLAN – BMP NO. 528

POND DESIGN SUMMARY				
DESIGN STORM	FACILITY INFLOW (CFS)	FACILITY DISCHARGE (CFS)	WATER SURFACE ELEVATION	STORAGE VOLUME (AC.FT.)
QUALITY STORM	2.54	0.17	141.53	0.71
2 -YEAR	10.02	1.91	142.13	0.91
10 -YEAR	22.92	10.99	142.83	1.19
100 -YEAR	52.44	39.01	143.70	1.57

NOTES:

1. HAZARD CLASSIFICATION: CLASS A AS PER POND CODE 378
2. DRAINAGE AREA TO FACILITY: 10.85 ACRES
3. MANAGEMENT PROVIDED BY FACILITY:
   WATER QUALITY BY EXTENDED DETENTION OF RUNOFF FROM THE 2.0" NRCS, TYPE II 24 HOUR STORM.
   WATER QUANTITY FOR 2, 10, AND 100 YEAR STORMS

POND CONSTRUCTION SEQUENCE AND NOTES

THE STORMWATER MANAGEMENT POND 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
SECTION 272 - POND OUTLET STRUCTURE, CONCRETE

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
2. CLEAR AND GRUB FOR INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS.
3. INSTALL PERIMETER SEDIMENT CONTROLS AS SHOWN IN CONSTRUCTION PHASING SHEETS.
4. CLEAR AND GRUB REMAINING AREA FOR POND CONSTRUCTION.
5. CONSTRUCT POND OUTLET STRUCTURE AND EXCAVATE PARTIAL EMBANKMENT AS NEEDED TO INSTALL POND OUTLET STRUCTURE. INSTALL SKIMMER DEWATERING DEVICE. DE-WATER FOUNDATION AS NEEDED IN ACCORDANCE WITH SECTION III - DEWATERING OPERATIONS AND USE SUMP PIT FOR PUMPING. SEE STORMWATER MANAGEMENT DETAILS FOR SKIMMER DEWATERING DEVICE INSTALLATION.
6. EXCAVATE THE POND AND COMPLETE THE EMBANKMENT AND BASIN TO THE LINES, GRADES AND DETAILS AS SHOWN IN THE CONSTRUCTION PLANS. DURING EXCAVATION, THE CONTRACTOR SHALL GRADE FROM THE TOP OF THE POND EMBANKMENT TO THE EXISTING R/W ALONG THE RAILROAD AT A 3:1 SLOPE. THE CONTRACTOR SHALL GRADE FROM THE TOP OF THE POND EMBANKMENT TO THE EXISTING RAMP 2, US202 AND ALL OTHER EXISTING SURFACES WITHIN THE PROJECT LIMITS AT A SLOPE OF 3:1. THE CONTRACTOR SHALL OVER EXCAVATE POND BOTTOM TO ELEVATION 137.0' FOR SEDIMENT STORAGE DURING CONSTRUCTION.
7. STABILIZE ALL BARE AREAS.

MAINTENANCE OF POND AS A SEDIMENT BASIN

1. CONTRACTOR SHALL INSPECT THE BASIN 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 POND

1. CONVERT THE BASIN INTO THE PERMANENT STORMWATER MANAGEMENT POND AFTER ALL AREAS DRAINING TO THE POND HAVE BEEN PERMANENTLY STABILIZED AND THE ENGINEER HAS APPROVED THE CONVERSION.
2. REMOVE ACCUMULATED SEDIMENT TO ELEVATION 138.0' AND DISPOSE SEDIMENT AT A LOCATION APPROVED BY THE ENGINEER.
3. COMPLETE STABILIZATION OF ALL BARE AREAS. REMOVE EROSION AND SEDIMENT CONTROL MEASURES AND DEACTIVATE SKIMMER DEWATERING DEVICE.

AS-BUILT DRAWINGS OF STORMWATER MANAGEMENT FACILITIES

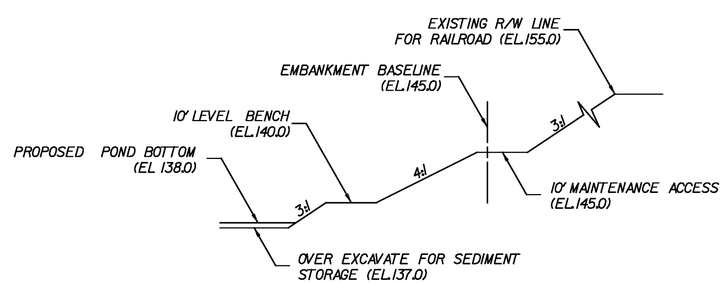
1. THE CONTRACTOR SHALL PROVIDE 'AS-BUILT' DRAWINGS OF ALL STORMWATER MANAGEMENT FACILITIES, SUCH AS PONDS, BIOFILTRATION SWALES, BIORETENTION AREAS, ETC. THE 'AS-BUILT' DRAWINGS SHALL SHOW THE ACTUAL FINISHED GROUND CONTOURS, OUTLET STRUCTURE DIMENSIONS AND ELEVATIONS, ETC., AS THEY EXIST AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER OR LAND SURVEYOR.

(X) PRINCIPAL SPILLWAY BASELINE			
POINT NO.	STATION	NORTHING	EASTING
1 POB	0+00.00	642895.8534	620659.0892
2 PI	0+60.32	642841.4164	620633.1065
3 PI	1+04.61	642813.4579	620598.7601
4 PI	2+39.73	642754.4014	620477.2305
5 PI	3+71.39	642798.7146	620601.2161
6 PI	4+11.73	642785.6453	620639.3813
7 POE	4+62.63	642779.0814	620689.8559

(X) POND EMBANKMENT BASELINE			
POINT NO.	STATION	NORTHING	EASTING
10POB	1+00.00	642715.3880	620512.2286
11 PC	1+27.48	642703.1711	620487.6100
PI	1+52.26	642692.1571	620465.4154
13 PT	1+73.94	642701.7993	620442.5914
14 PC	2+45.13	642729.5009	620377.0192
PI	3+08.42	642754.1324	620318.7140
16 PT	3+03.13	642774.3515	620378.6923
17 PC	4+01.75	642805.8548	620472.1444
PI	4+26.65	642813.8099	620495.7427
19 PT	4+51.51	642824.0887	620518.4255
20 PC	5+22.96	642853.5806	620583.5068
PI	5+32.15	642857.3740	620591.8781
22 PT	5+41.17	642858.1846	620601.0329
23 PC	5+65.00	642860.2866	620624.7739
PI	6+00.65	642863.4301	620660.2765
25 PT	6+11.96	642829.3514	620649.8383
26 PC	6+24.40	642817.4497	620646.1929
PI	6+27.49	642814.4988	620645.2890
28 PT	6+30.10	642812.0475	620647.1639
29 PC	6+57.94	642789.9341	620664.0766
PI	6+78.60	642773.5266	620676.6253
31 PT	6+85.25	642767.9490	620656.7364
32 PC	7+68.39	642745.4979	620576.6781
PI	7+77.41	642743.0641	620567.9996
34 PT	7+86.37	642739.0575	620559.9257
35POE	8+29.62	642719.8332	620521.1863

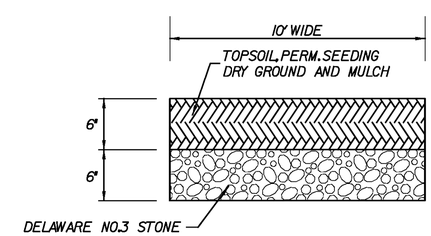
NOTES:

1. THE POND BETWEEN ELEVATIONS 138.0' AND 142.0' SHALL RECEIVE PERMANENT SEEDING, WET GROUND (ITEM 734015). THE REMAINDER OF THE EMBANKMENT AREA SHALL RECEIVE PERMANENT SEEDING, DRY GROUND (ITEM 734013).
2. SIDE SLOPE FROM ELEVATION 142.0' SHALL BE TOPSOILED AND MULCHED WITH SOIL RETENTION BLANKET MULCH, TYPE 3.



SECTION A–A

NOT TO SCALE



POND MAINTENANCE ACCESS

NOT TO SCALE

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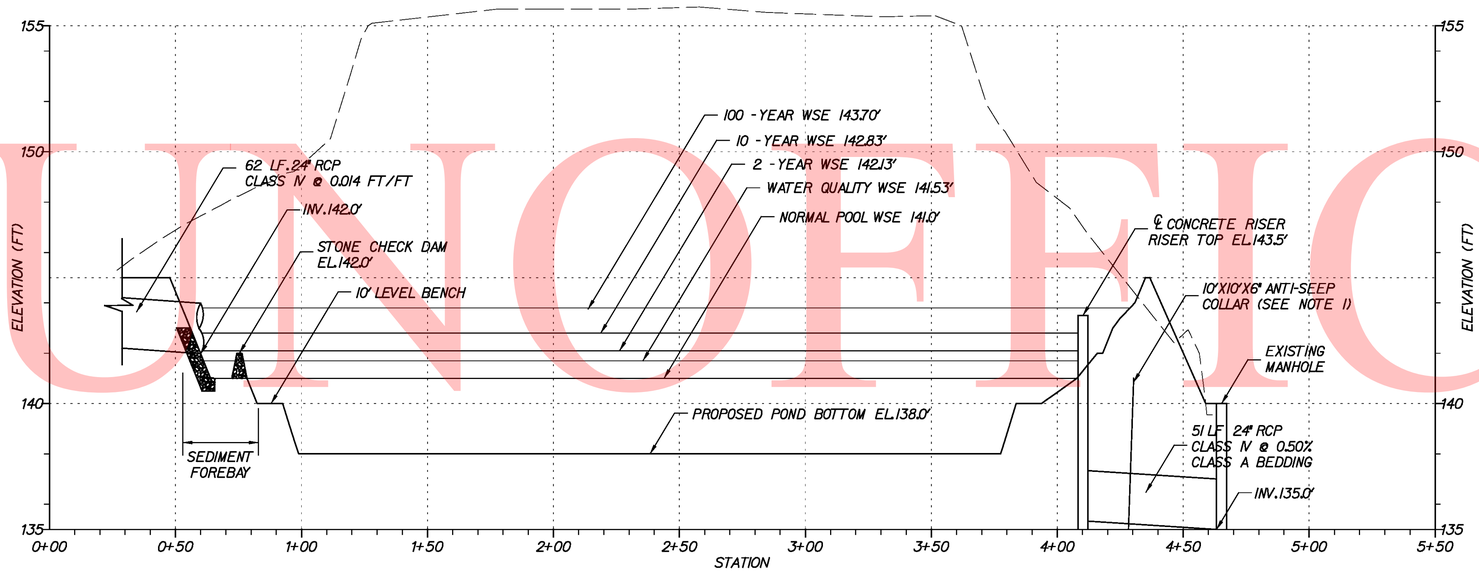
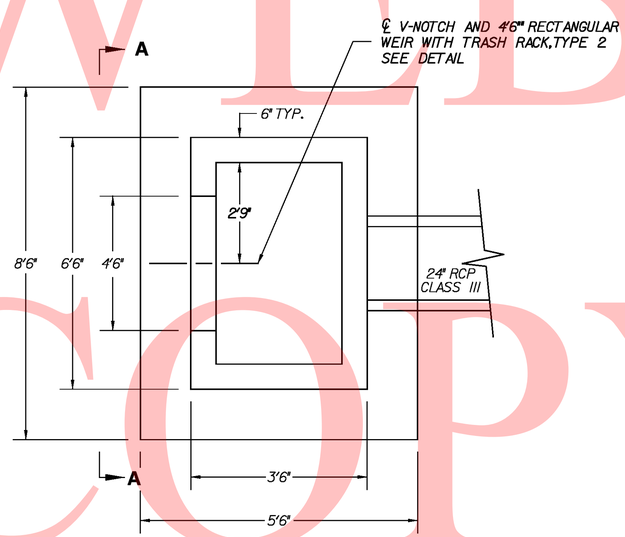
P:\BLUE BALL (RESUMED) I95 US202 INTERCHANGE\STORMWATER MANAGEMENT\SW01.DGN

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	STORMWATER MANAGEMENT PLAN SW 1 OF 3	SHEET NO. 134
				COUNTY NEW CASTLE	DESIGNED BY: JJK		TOTAL SHTS. 482
					CHECKED BY:		



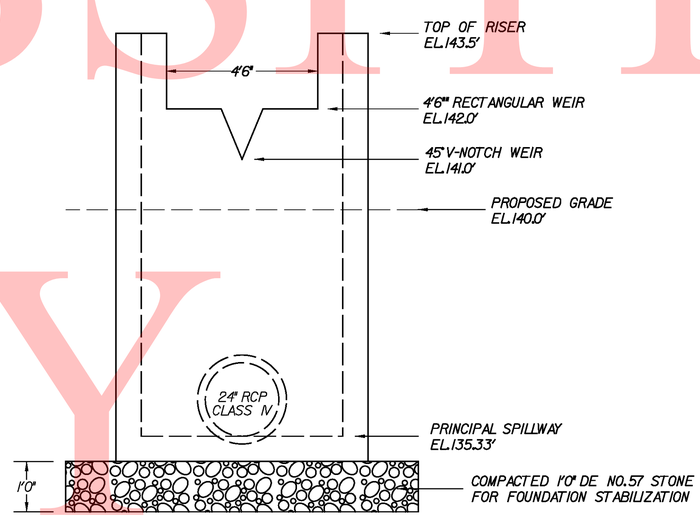
SPILLWAY PROFILE FOR SWM FACILITY NO. 528

NOT TO SCALE



SWM RISER DELDOT STANDARD 66"X30" DI MODIFIED

NOT TO SCALE



SECTION A–A

NOT TO SCALE

WALL REINFORCEMENT DETAIL		
INTERIOR WALL DIMENSION	AREA OF HORIZONTAL REINFORCEMENT PER FOOT	AREA OF VERTICAL REINFORCEMENT PER FOOT
(FEET)	(SQUARE INCHES)	(SQUARE INCHES)
LESS THAN 4.0	0.132	0.132
4.0 TO 4.5	0.163	0.132
4.6 TO 5.0	0.198	0.132
5.1 TO 5.5	0.239	0.132
5.6 TO 6.0	0.284	0.132

NOTES:

1. COST FOR ANTI-SEEP COLLAR SHALL BE INCIDENTAL TO ITEM 272000-POND OUTLET STRUCTURE, CONCRETE #1. SEE DETAIL
2. TRASH RACKS ARE NOT SHOWN FOR CLARITY. SEE TRASH RACKS DETAIL.

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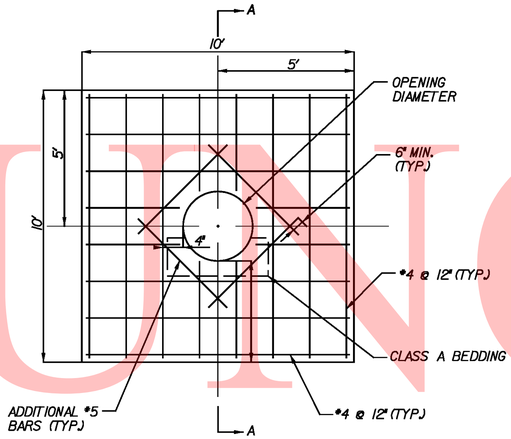
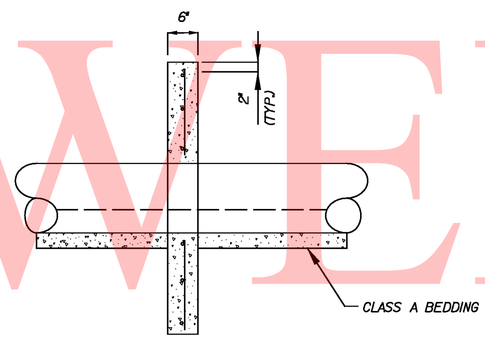
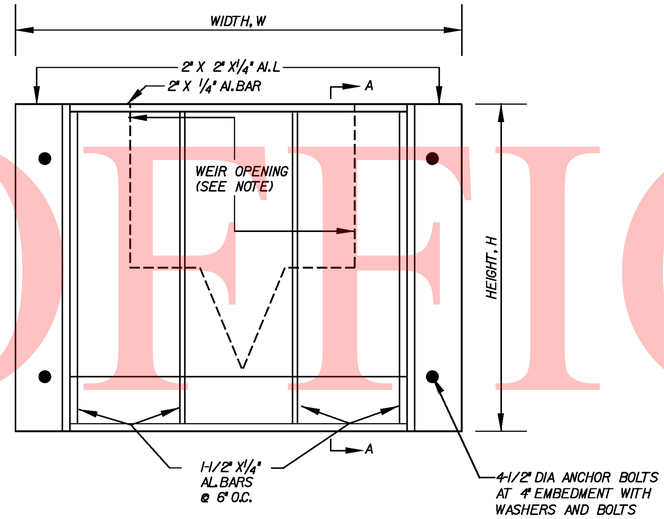
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	STORMWATER MANAGEMENT PLAN SW 2 OF 3	SHEET NO. 135
			COUNTY NEW CASTLE	DESIGNED BY: JJK		TOTAL SHTS. 482
				CHECKED BY:		



ANTI-SEEP COLLAR DETAIL
SCALE: NONE



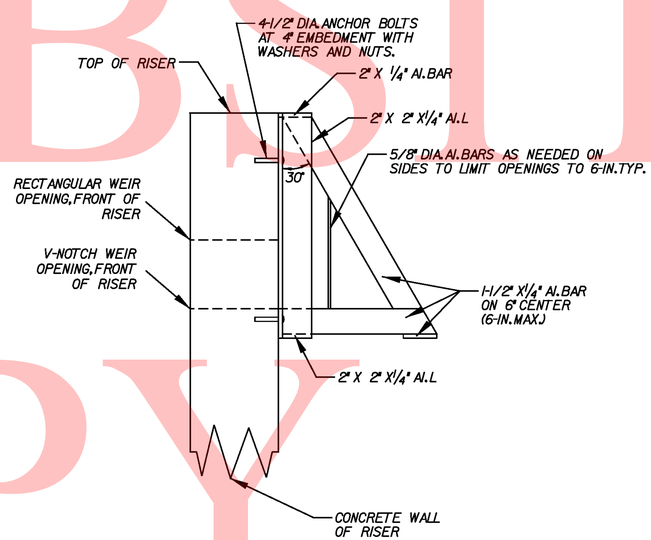
SECTION A-A
SCALE: NONE



TRASH RACK, TYPE 2

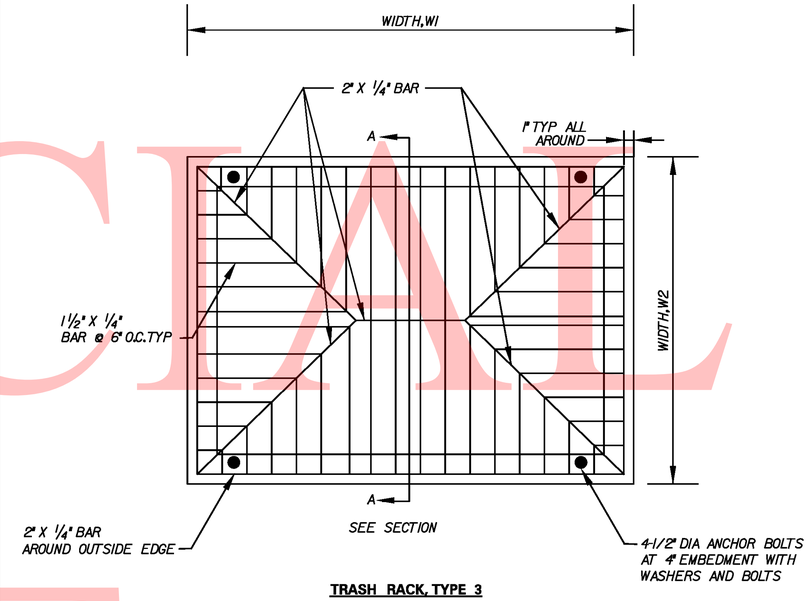
NOTE:

TRASH RACK SHALL BE CENTERED HORIZONTALLY OVER WEIR OPENING ON WALL OF RISER. ALUMINUM SHALL BE USED FOR TRASH RACK.

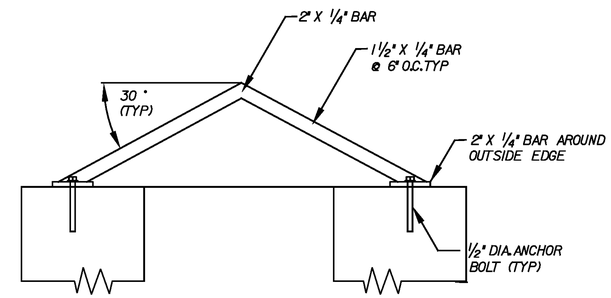


SECTION A-A
SCALE: NONE

TRASH RACK, TYPE 2 SCHEDULE		
FACILITY MAINTENANCE NO.	W (FT)	H (FT)
528	6.5	3.00



TRASH RACK, TYPE 3



SECTION A-A
SCALE: NONE

TRASH RACK, TYPE 3

NOTE:
ALUMINIUM SHALL BE USED FOR TRASH RACK.

TRASH RACK, TYPE 3 SCHEDULE		
FACILITY MAINTENANCE NO.	W1 (FT)	W2 (FT)
528	6.50	3.50

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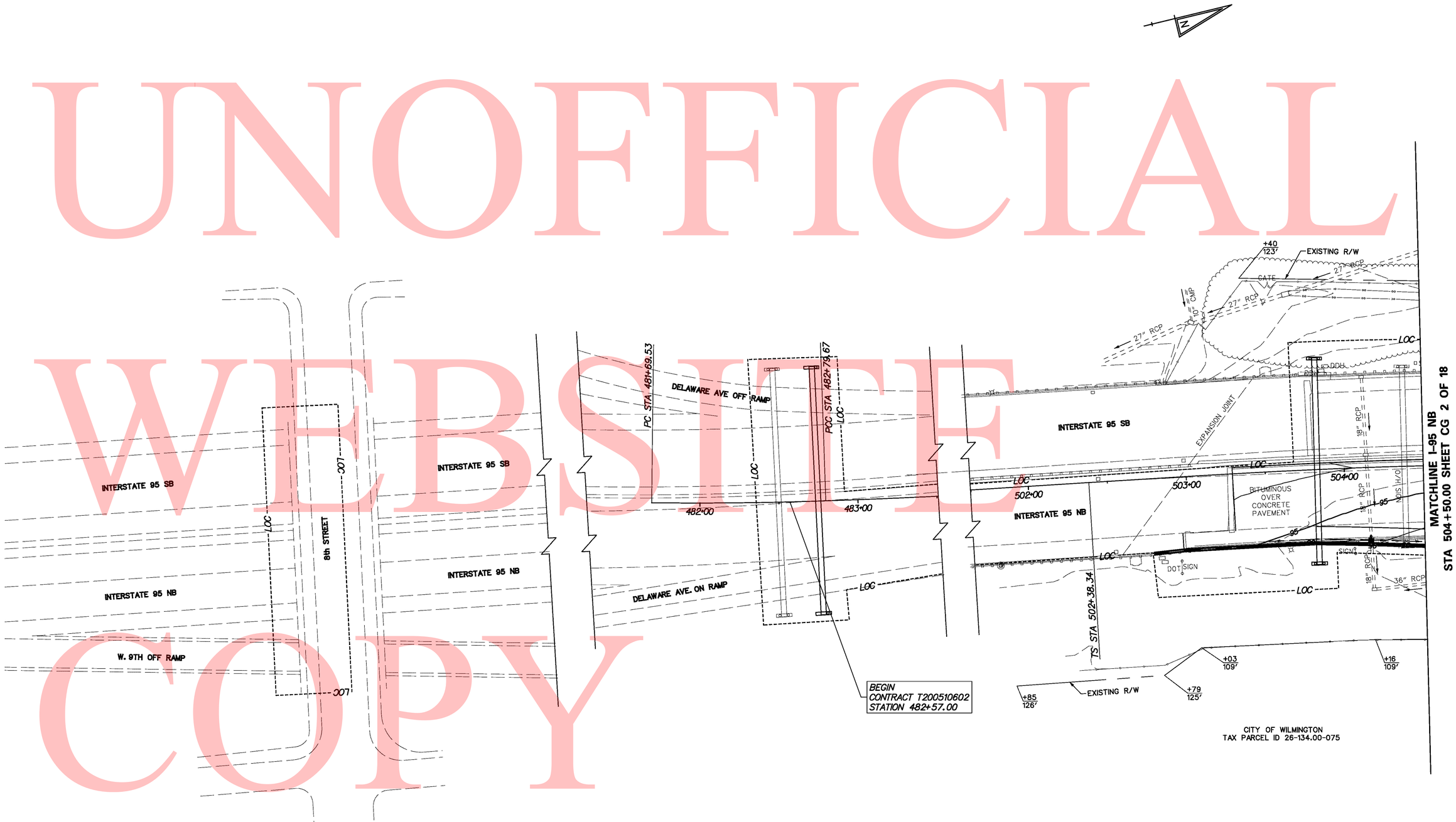

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11/1/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	CONTOUR AND GRADING CG 1 OF 18	SHEET NO. 137
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		

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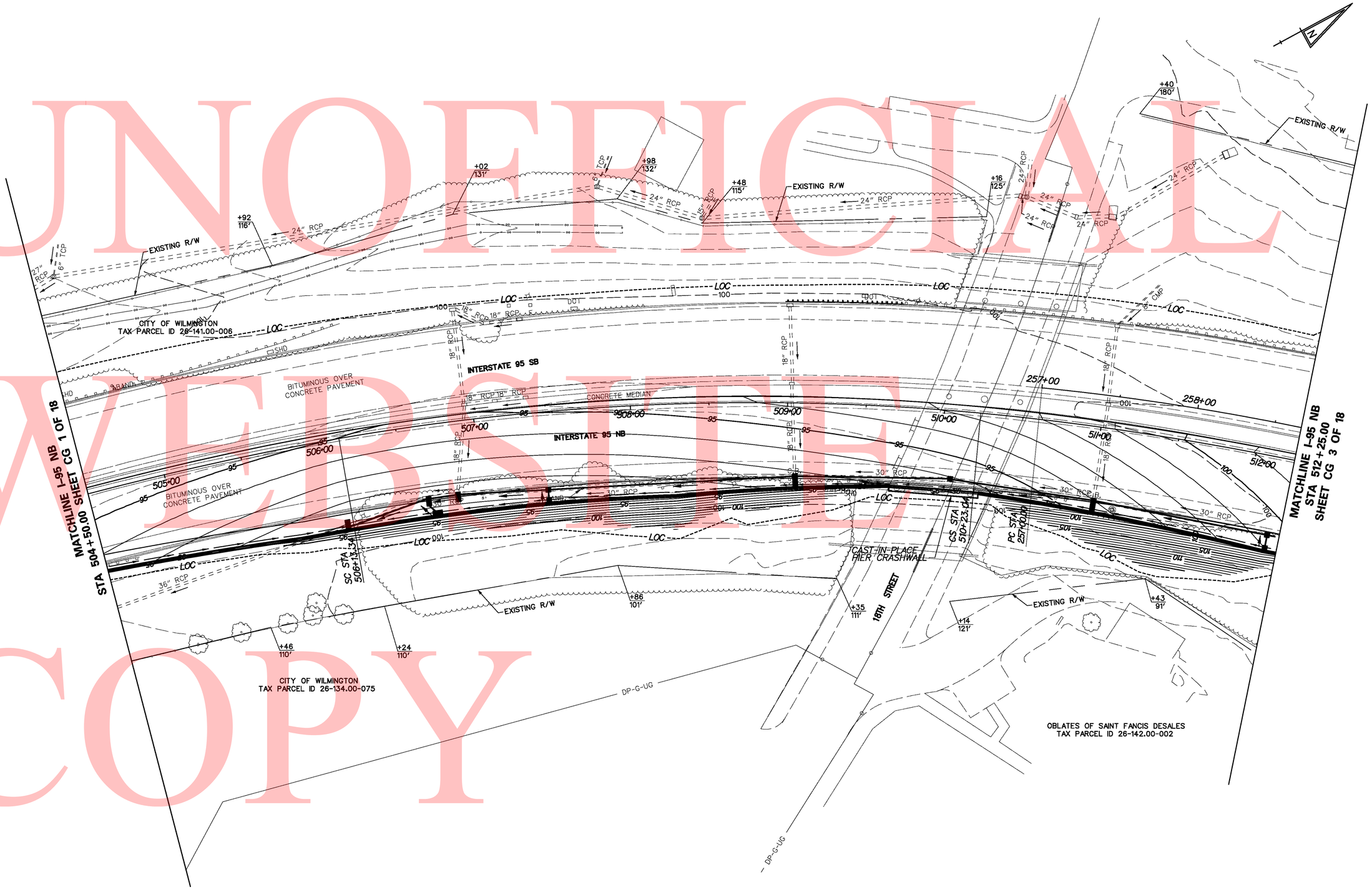

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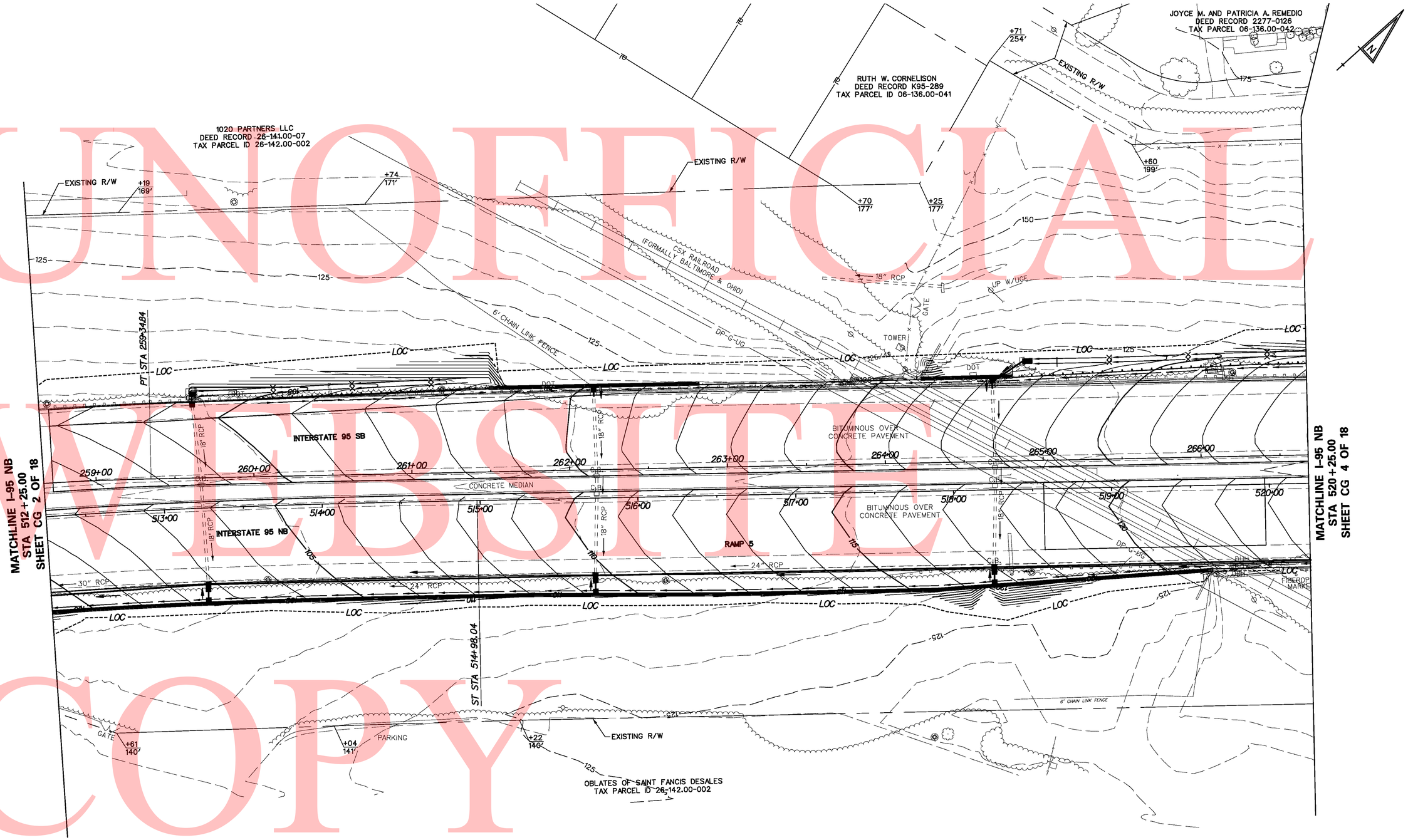
11/11/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. BR 1-760	CONTOUR AND GRADING CG 2 OF 18	SHEET NO. 138
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		



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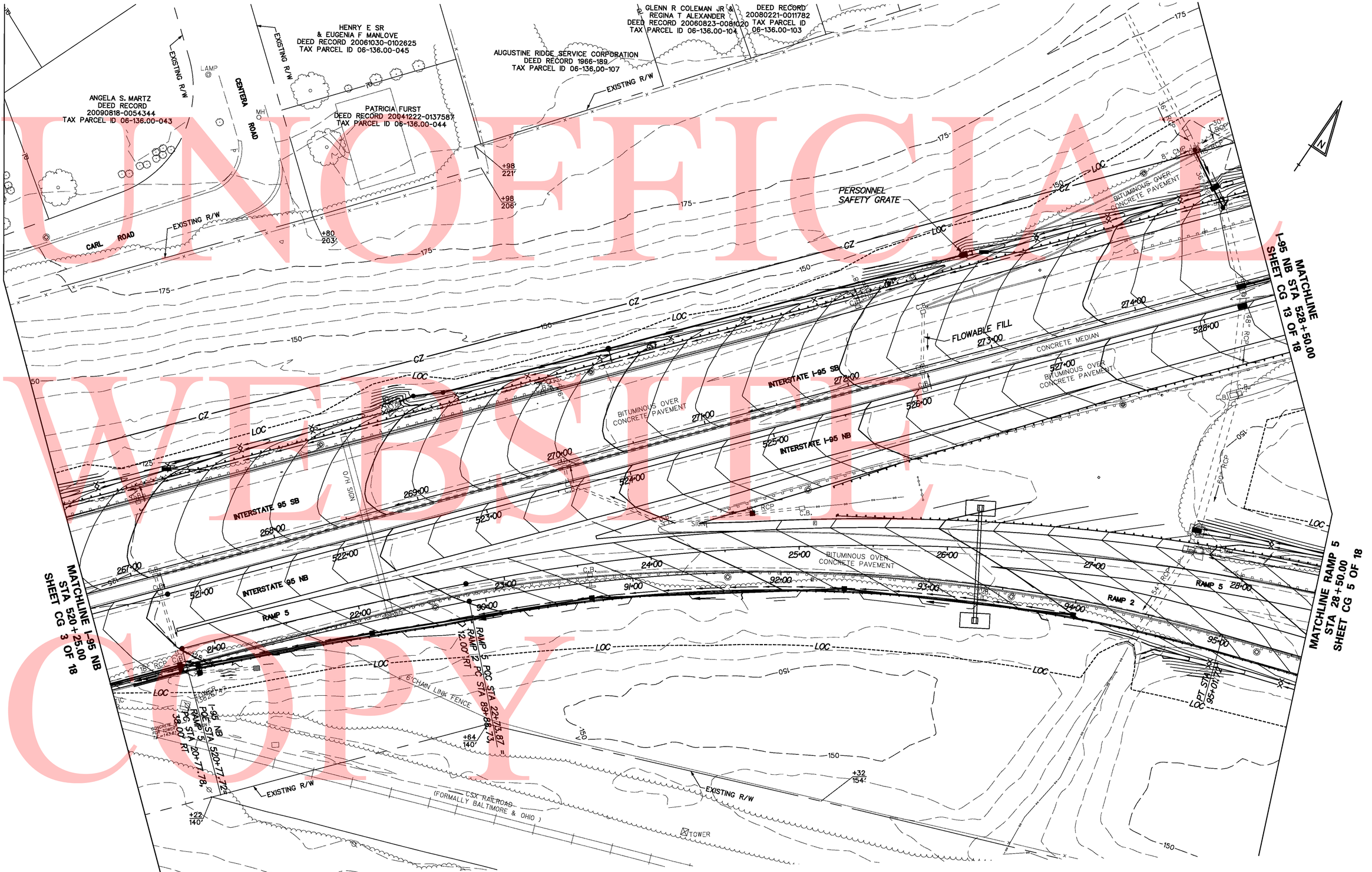
11/1/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO.	BR 1-761	CONTOUR AND GRADING CP 3 OF 18	SHEET NO. 139
				COUNTY NEW CASTLE	DESIGNED BY:	BMD		TOTAL SHTS. 482
					CHECKED BY:	DAG		



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1/11/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	CONTOUR AND GRADING CP 4 OF 18	SHEET NO. 140
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		

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11/11/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	CONTOUR AND GRADING CP 5 OF 18	SHEET NO. 141
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		

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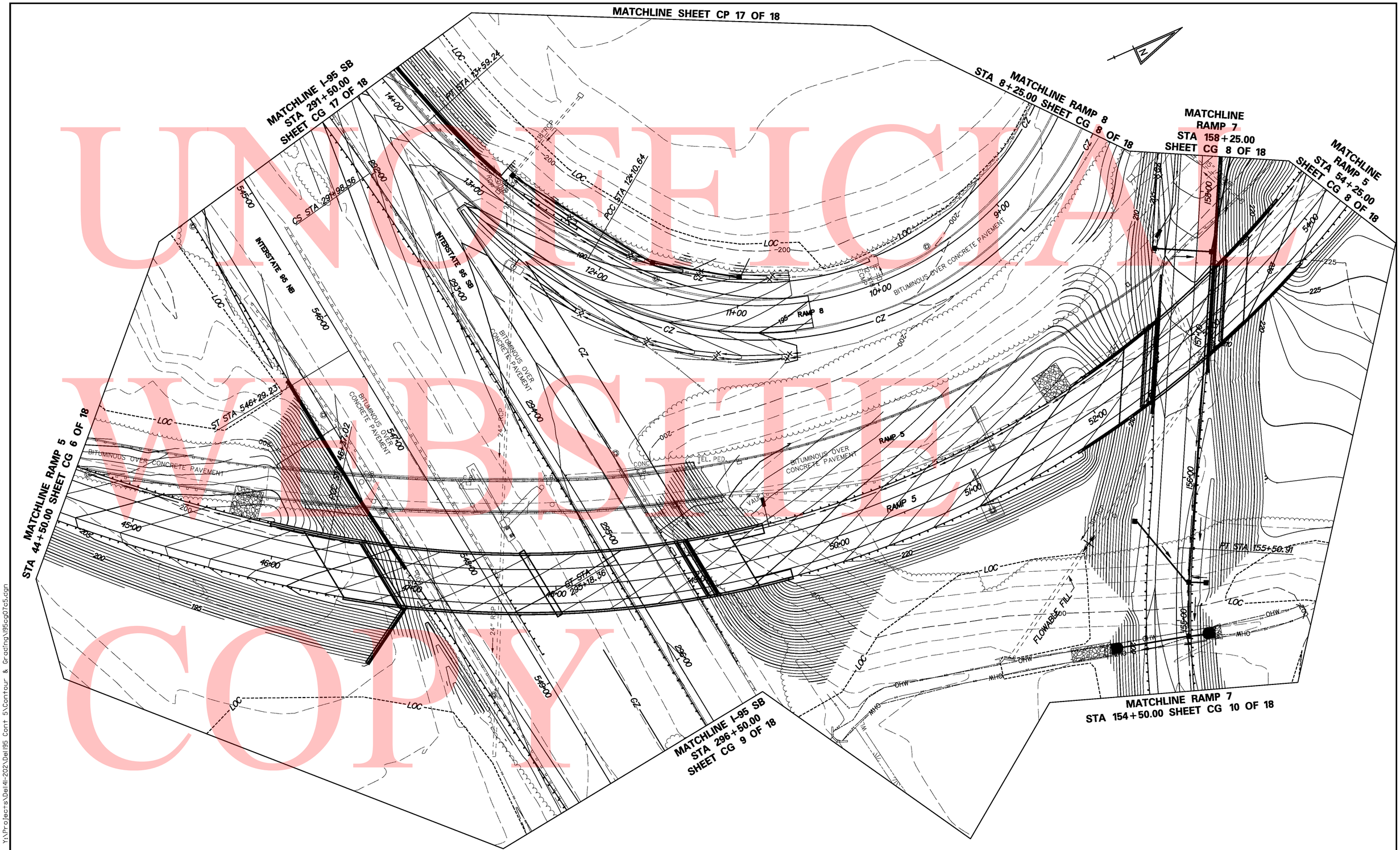
11/1/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. BR 1-762	CONTOUR AND GRADING CP 6 OF 18	SHEET NO. 142
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		



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11/11/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. BR 1-763,1-764	CONTOUR AND GRADING CP 7 OF 18	SHEET NO. 143
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
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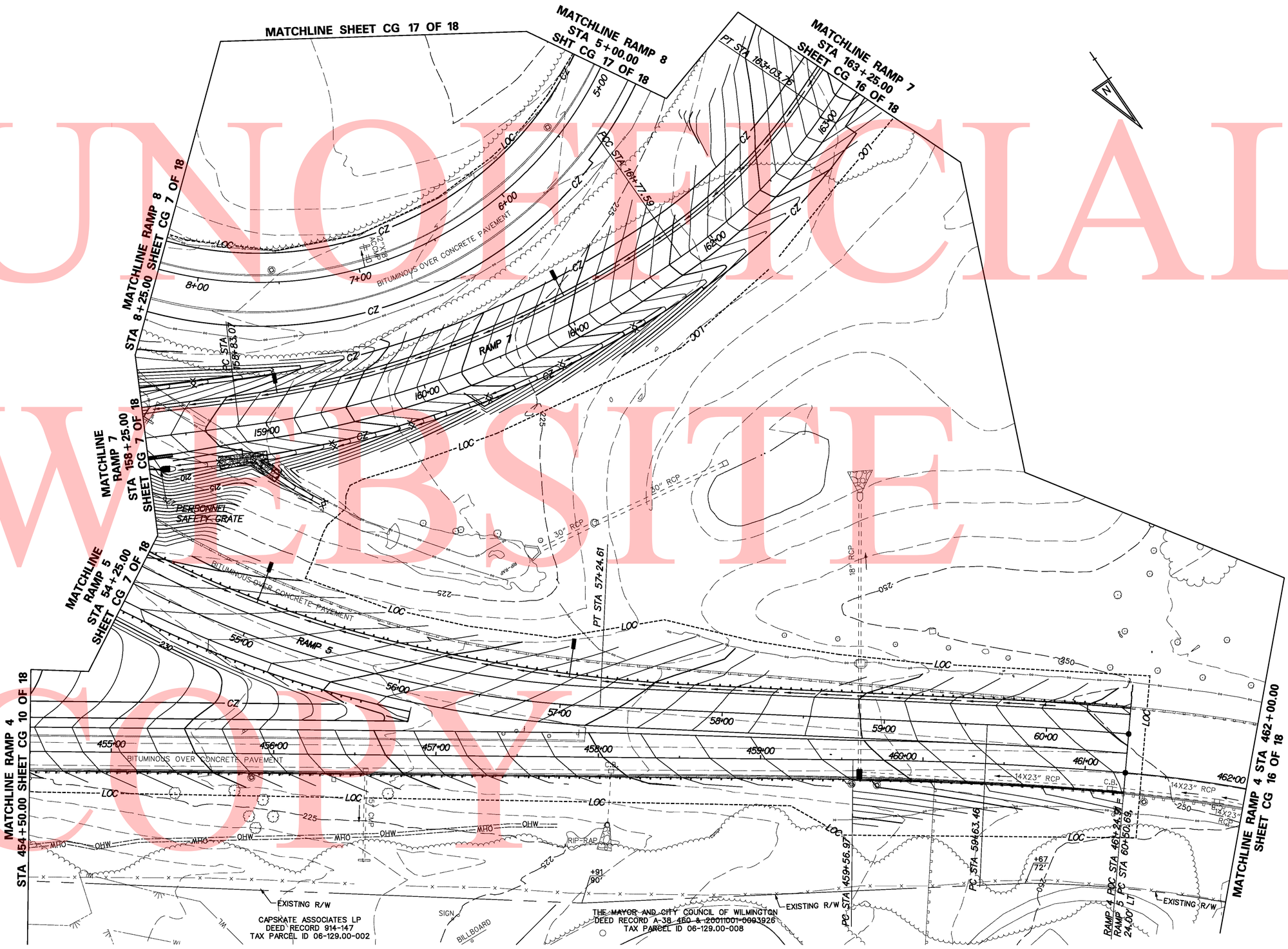

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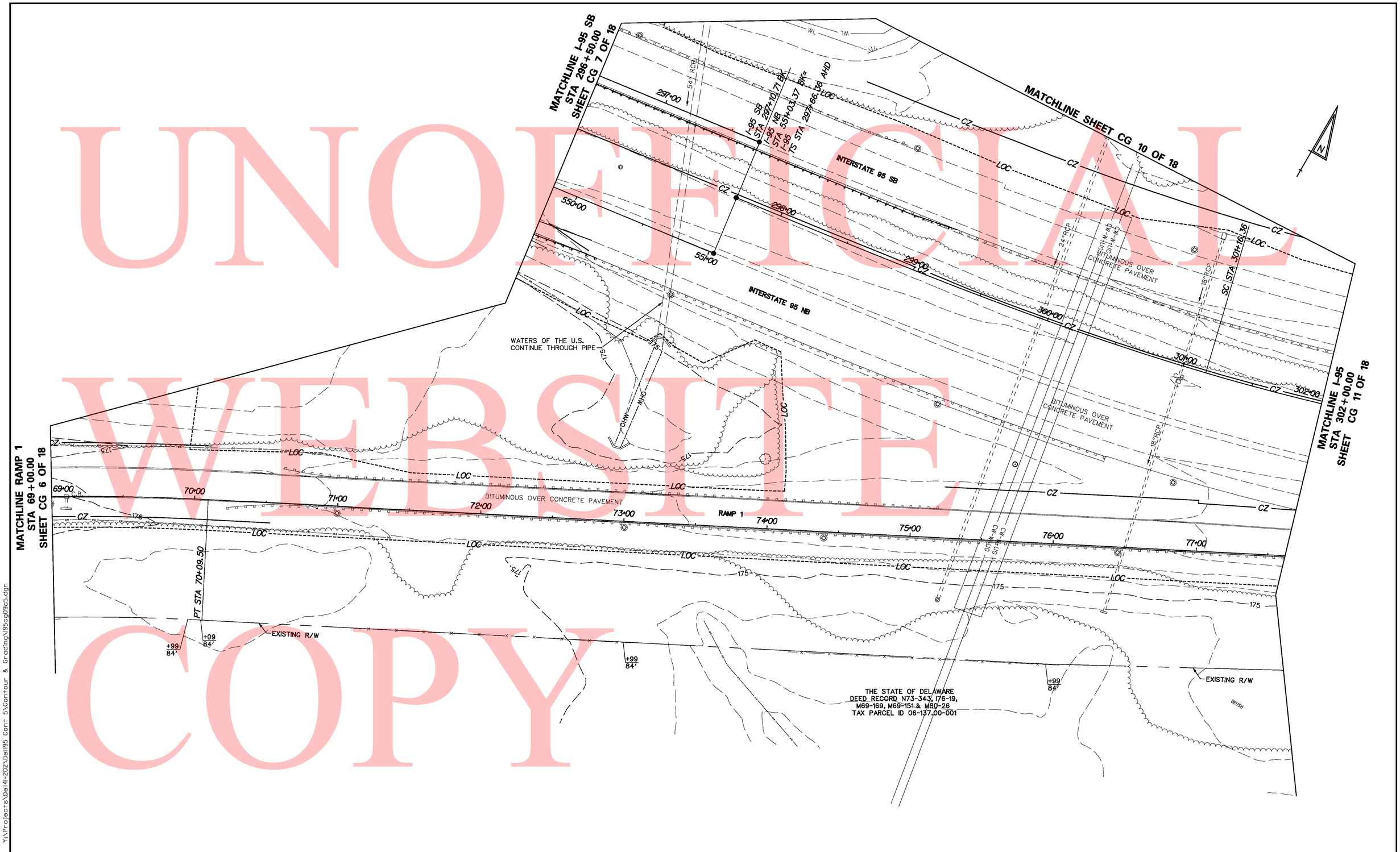
11/11/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	CONTOUR AND GRADING CP 8 OF 18	SHEET NO. 144
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		



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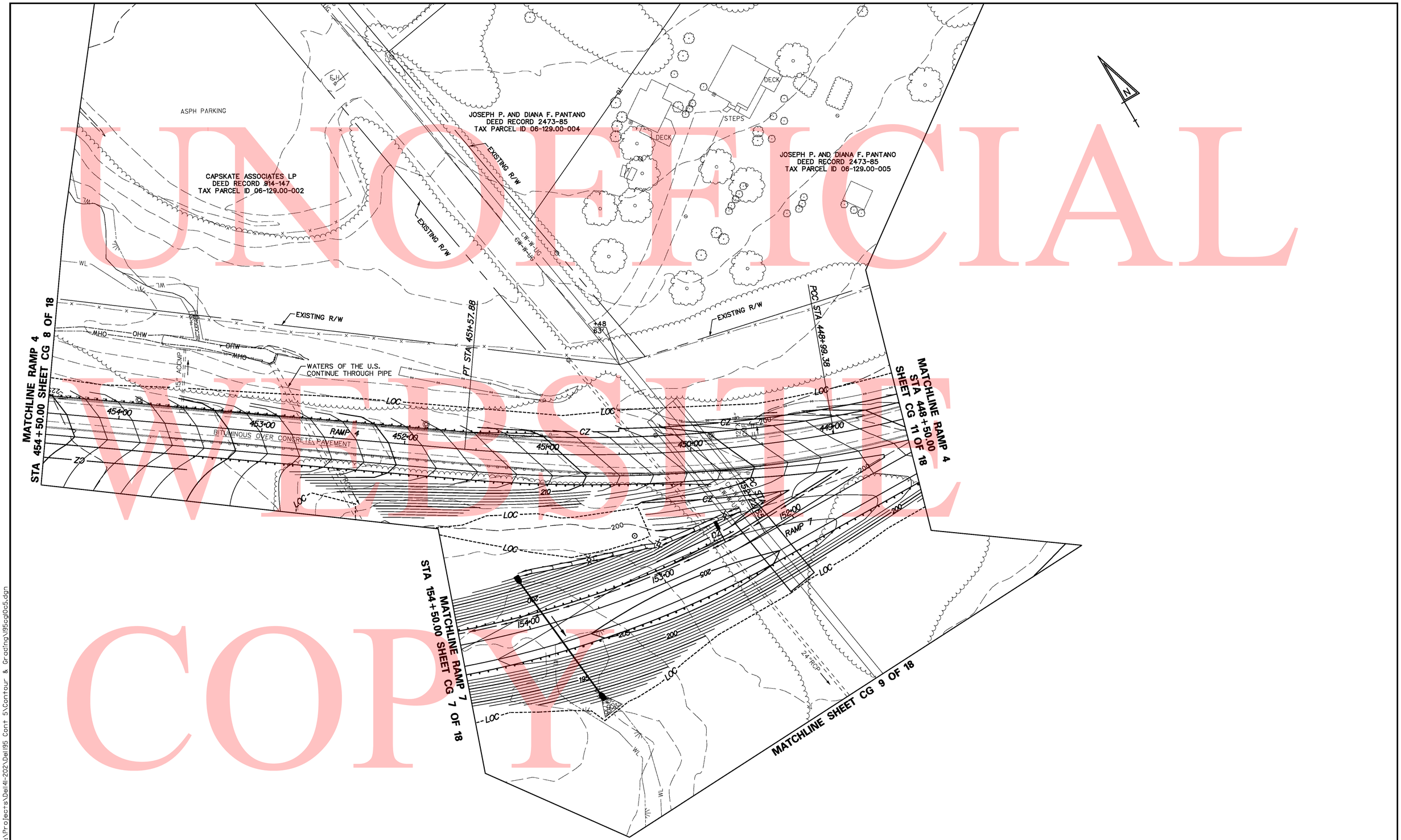
1/11/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	CONTOUR AND GRADING CP 9 OF 18	SHEET NO. 145
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		



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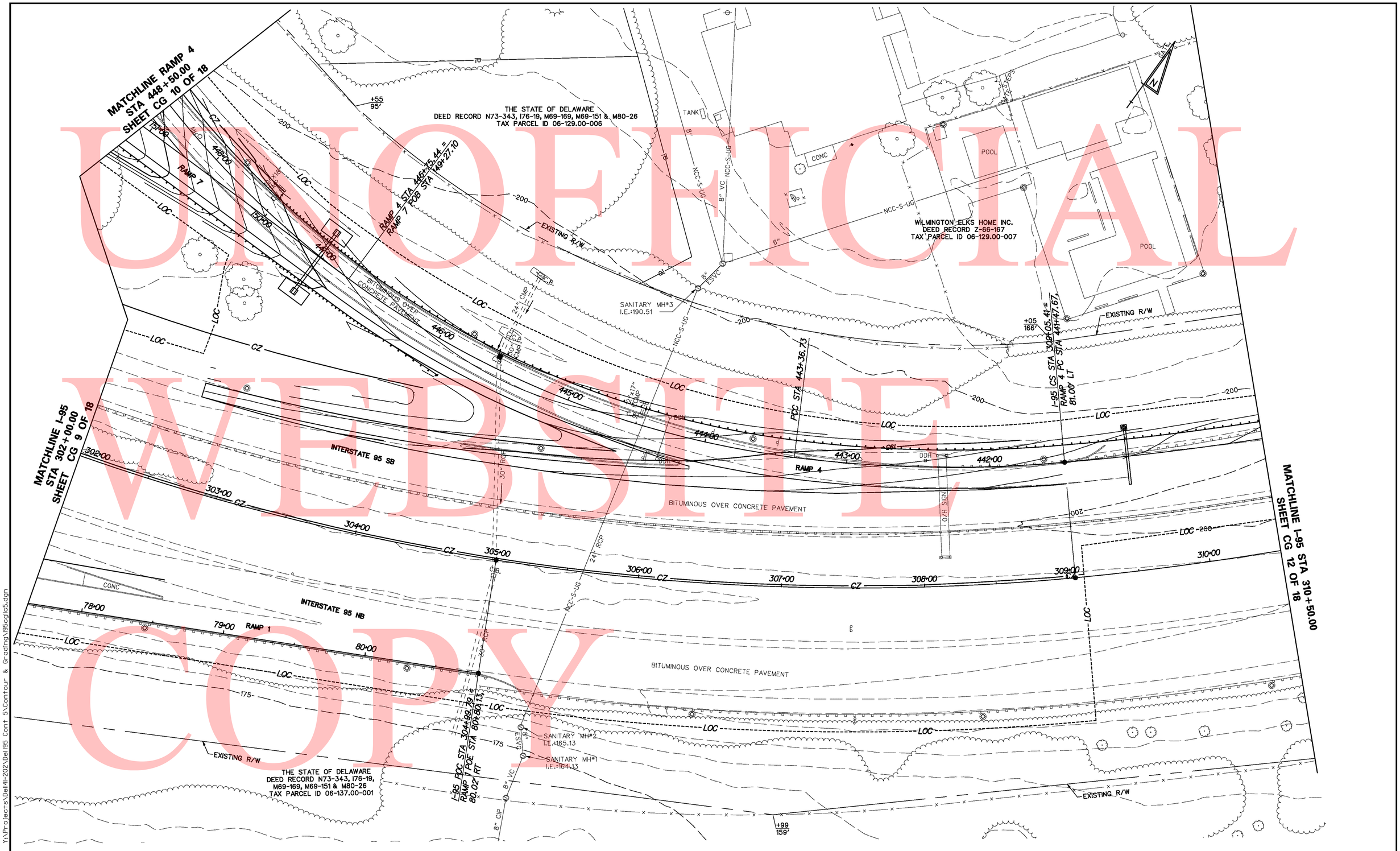
11/11/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	CONTOUR AND GRADING CP 10 OF 18	SHEET NO. 146
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		



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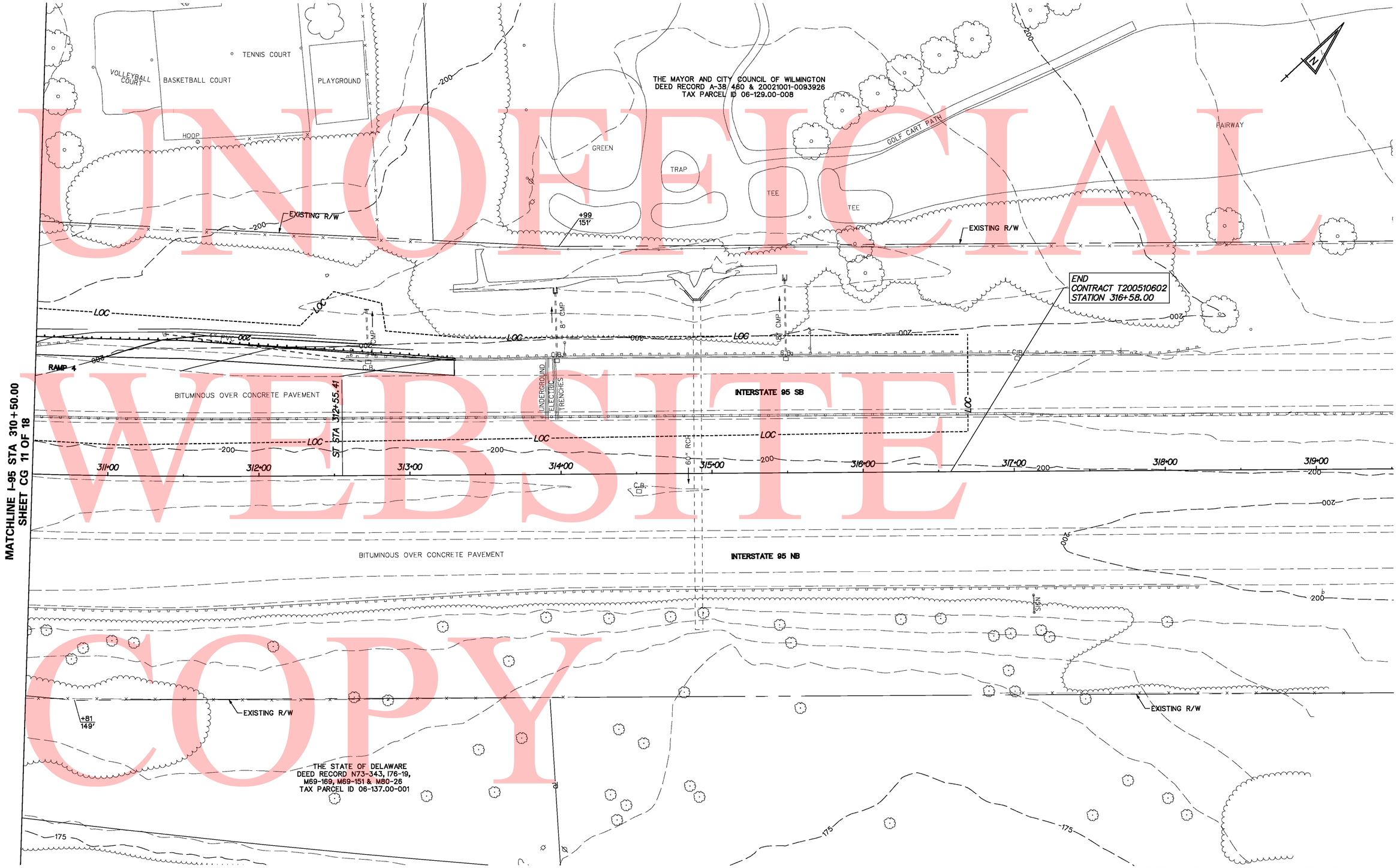
1/11/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	CONTOUR AND GRADING CP 11 OF 18	SHEET NO. 147
			COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
				CHECKED BY: DAG		



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NOTE: SEE FOLLOWING SHEET FOR SCHEDULES

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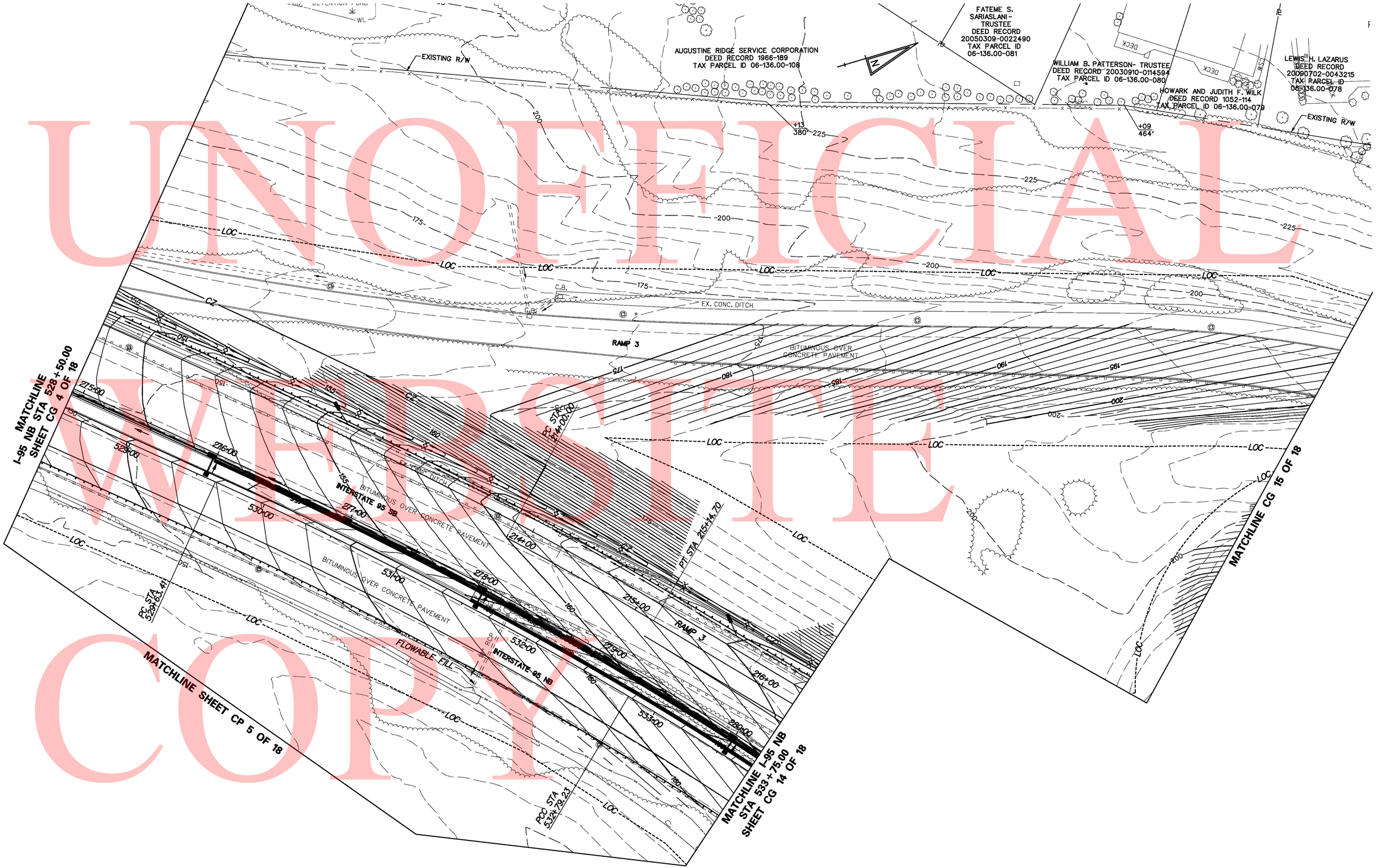
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	CONTOUR AND GRADING CP 12 OF 18	SHEET NO. 148
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		



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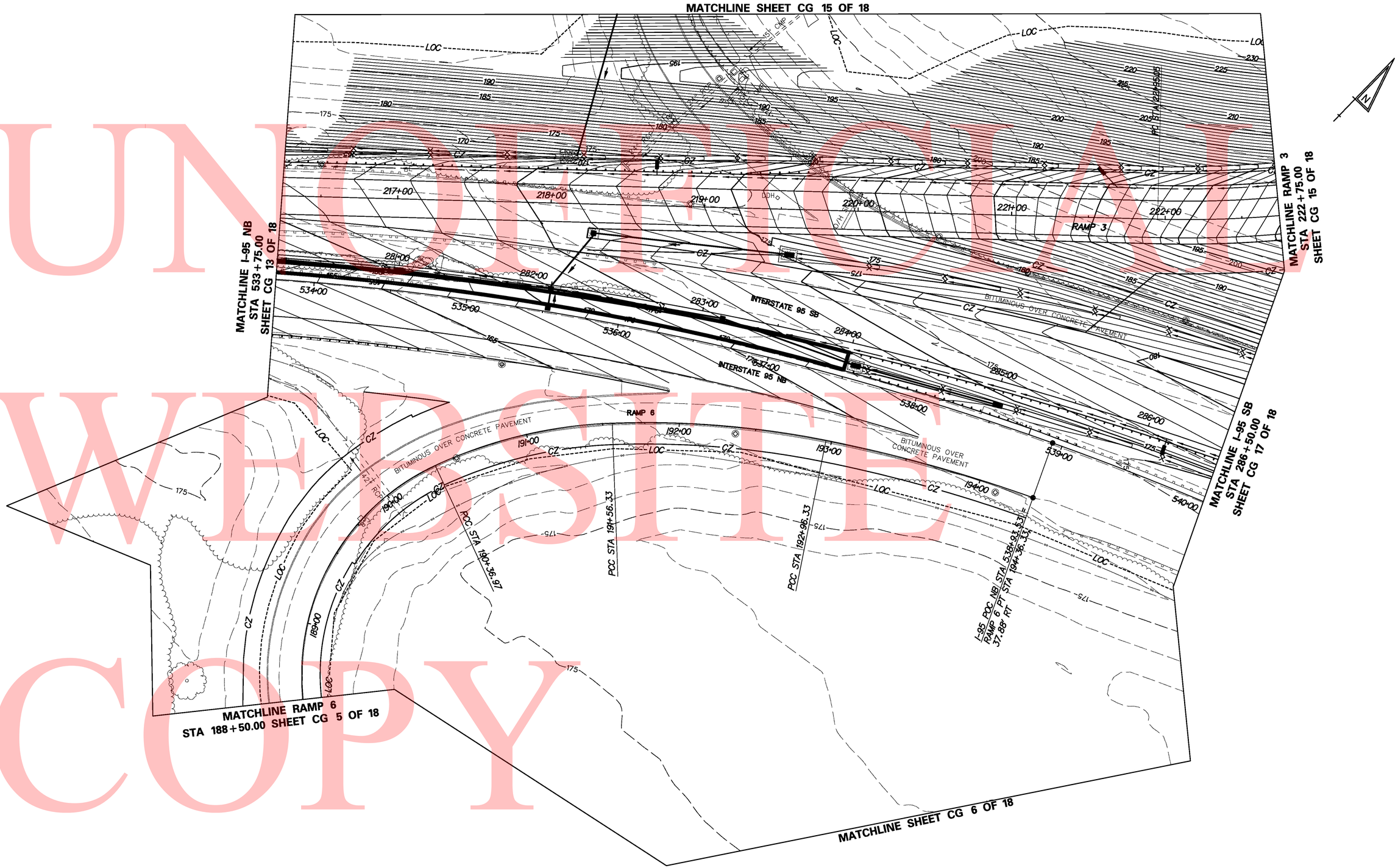
11/11/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	CONTOUR AND GRADING CP 13 OF 18	SHEET NO. 149
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		



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11/1/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	CONTOUR AND GRADING CP 14 OF 18	SHEET NO. 150
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		

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11/1/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	CONTOUR AND GRADING CP 15 OF 18	SHEET NO. 151
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		

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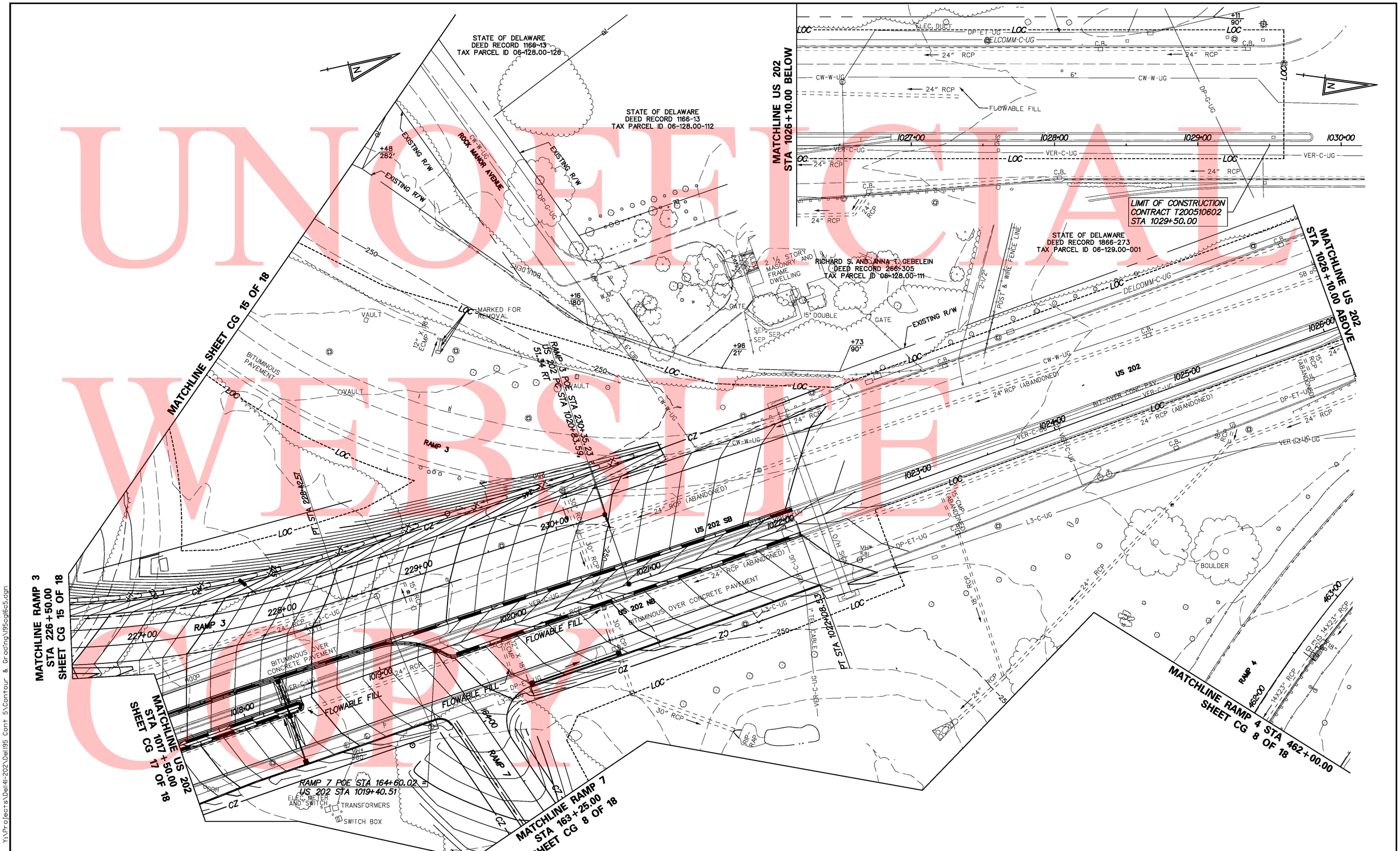

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	CONTOUR AND GRADING CP 16 OF 18	SHEET NO. 152
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		

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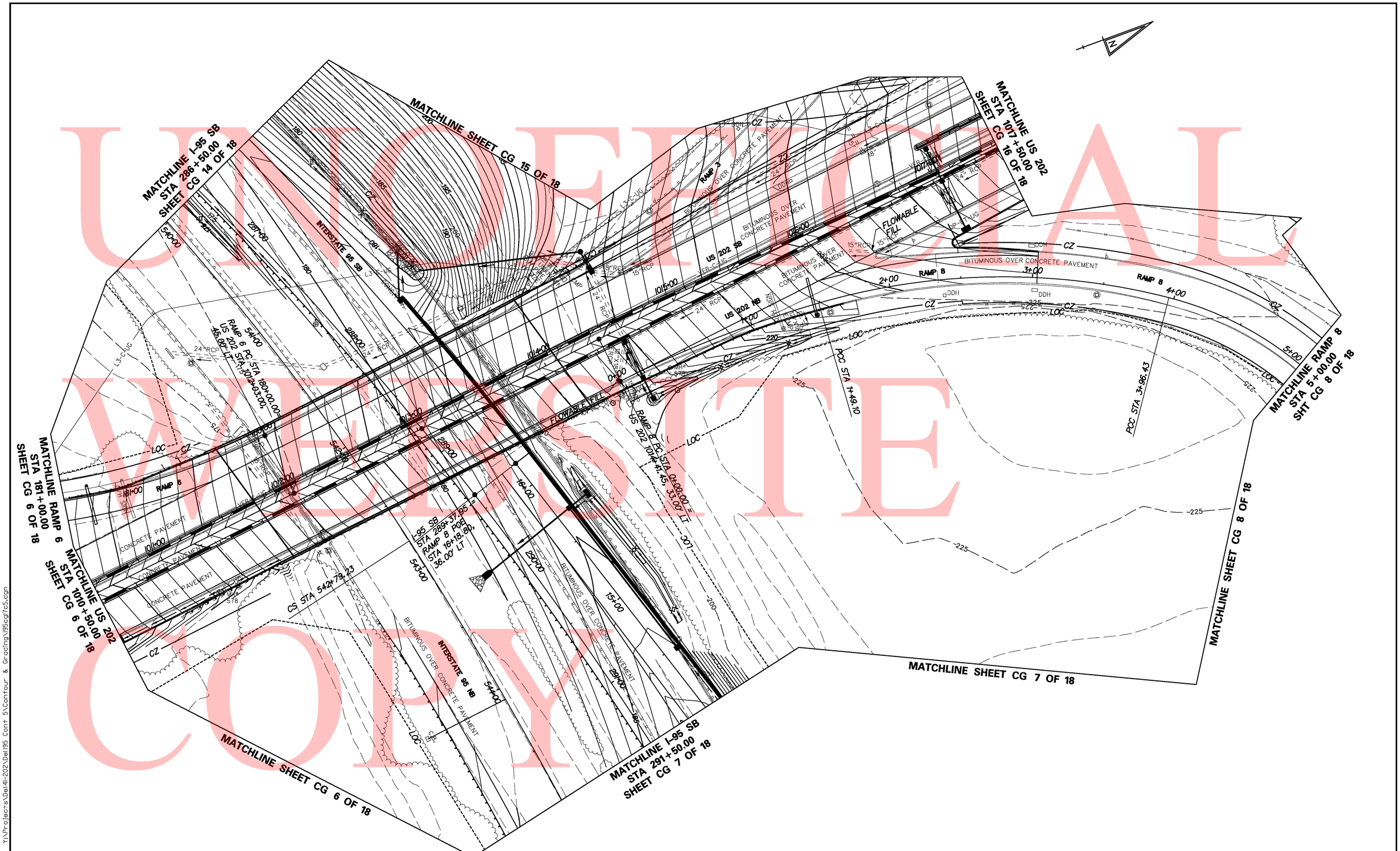
11/1/2010



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1/11/2010

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. BR 1-570	CONTOUR AND GRADING CP 17 OF 18	SHEET NO. 153
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		

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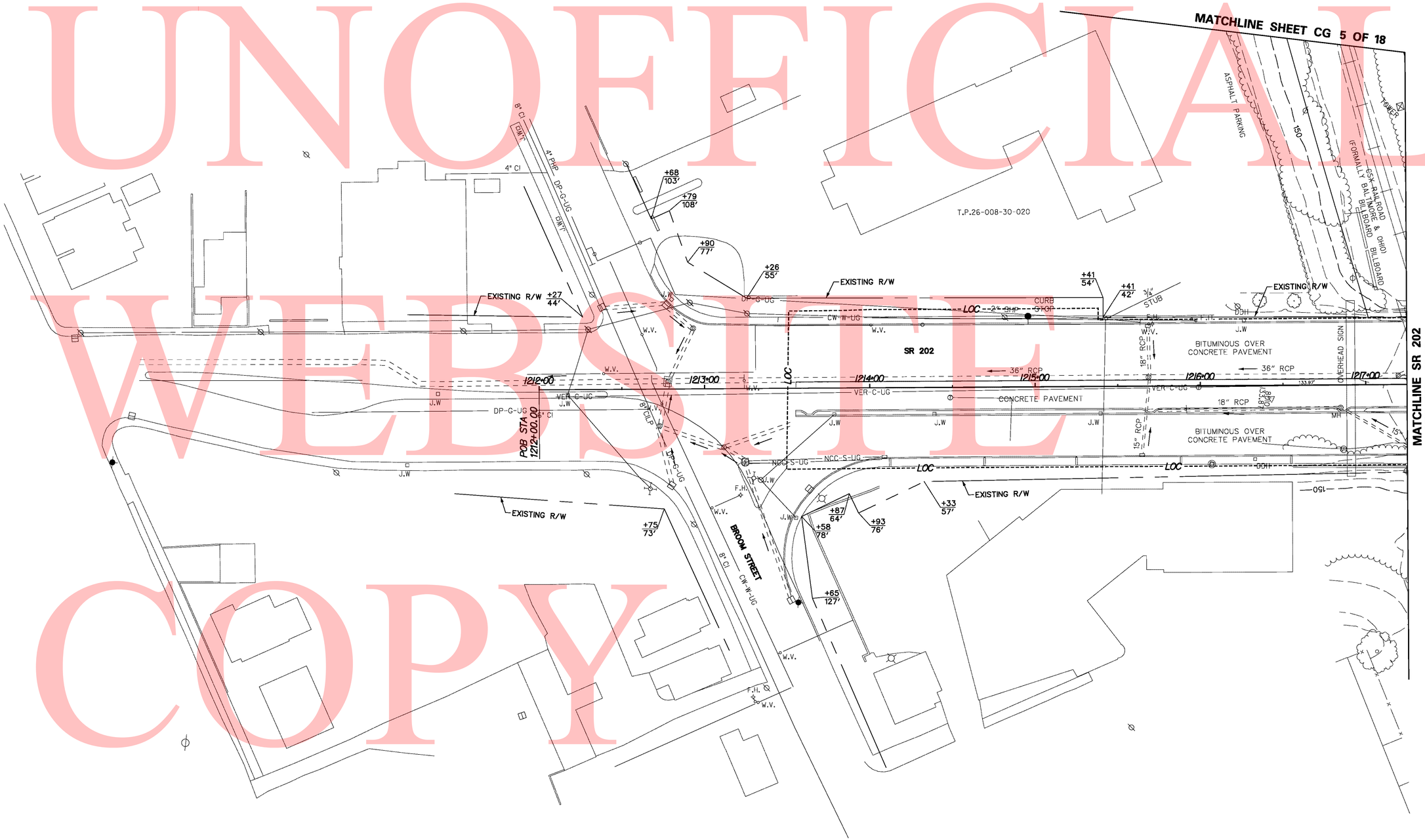

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	I-95 & US 202 INTERCHANGE	CONTRACT T200510602	BRIDGE NO. NA	CONTOUR AND GRADING CP 18 OF 18	SHEET NO. 154
				COUNTY NEW CASTLE	DESIGNED BY: BMD		TOTAL SHTS. 482
					CHECKED BY: DAG		

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11/1/2010