STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION

JACK MARKELL
GOVERNOR

PO BOX 778
DOVER, DELAWARE 19903

SHAILEN BHATT
SECRETARY

VIA OVERNIGHT DELIVERY

(302) 760-2030
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January 25, 2012

Contract No. T200312601.01
Federal Aid Project No. T200312601
SR 7, NEWTOWN ROAD TO SR 273
New Castle County

Ladies and Gentlemen:

Enclosed is Addendum No. 1 for the referenced contract consisting of the following:

NOTE: The date for the receipt of bids has been moved to Thursday, February 2, 2012.

1. One (1) page, Bid Proposal Cover, revised, to be substituted for the same page in the Proposal.

2. Special Provisions, 612529 - Pipe Video Inspection Quantity has been revised.

3. The following Standard Items Quantities have been revised:

252000	612033
252001	708051
612021	708053
612022	708057
612030	708058

4. The following Standard Items Descriptions have been revised:

701010	701020
701022	

5. Standard Item No. 743007 - Traffic Officer has been changed to fixed price.

6. Seventeen (17) pages, Bid Proposal Forms, pages 1 through 17, revised, to be substituted for the same pages in the Proposal.

7. Twelve (12) sheets, Construction Plans, sheets 4-6, 14-15, 17, 30, 49, 75, 77, 79, and 101, revised, to be substituted for the same sheets in the Plan Set.

8. One (1) sheet, Construction Plans, sheet 3A , new, to be added to the Plan Set.

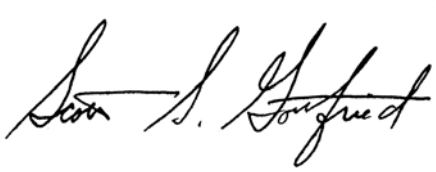
9. One (1) sheet, Construction Plans, sheet 3, DELETED, to be removed from the Plan Set.

10. For proposal holders with the electronic bid option only, Amendment Disk No. 1.

11. Questions and Answers for Proposal T200312601.01, January 25, 2012 are attached.

Please note the revisions listed above and submit your bid based upon this information.

Sincerely,



Scott S. Gottfried
Competitively Bid Contracts Coordinator
:ssg
Enclosures

STATE OF DELAWARE

DEPARTMENT OF TRANSPORTATION

BID PROPOSAL

for

CONTRACT **T200312601.01**

SR 7, NEWTOWN ROAD TO SR 273

NEW CASTLE COUNTY

ADVERTISEMENT DATE: January 9, 2012

Completion Date 607 Calendar Days

SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
DELAWARE DEPARTMENT OF TRANSPORTATION
AUGUST 2001

Bids will be received in the Bidder's Room (B1.11.01), Transportation Administration Center, 800 Bay Road, Dover, Delaware until 2:00 P.M. local time **THURSDAY**, February 2, 2012

Addendum No. 1
January 25, 2012

CONTRACT ID: T200312601.01 PROJECT(S): T200312601

All figures must be typewritten.

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
	SECTION 0001 NON-FIXED QUANTITY ITEMS					
0010	201000 CLEARING AND GRUBBING	LUMP	LUMP			
0020	202000 EXCAVATION AND EMBANKMENT	26400.000 CY				
0030	208000 EXCAVATION AND BACKFILLING FOR PIPE TRENCHES	1300.000 CY				
0040	209001 BORROW, TYPE A	6703.000 CY				
0050	210000 FURNISHING BORROW TYPE "C" FOR PIPE, UTILITY TRENCH, AND STRUCTURE BACKFILL	1560.000 CY				
0060	211000 REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP	LUMP			
0070	212000 UNDERCUT EXCAVATION	1024.000 CY				
0080	250000 SEDIMENT REMOVAL	255.000 CY				
0090	251000 SILT FENCE	4400.000 LF				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0100	251001 REINFORCED SILT FENCE	1300.000 LF				
0110	252000 INLET SEDIMENT CONTROL, DRAINAGE INLET	89.000 EACH				
0120	252001 INLET SEDIMENT CONTROL, CURB INLET	22.000 EACH				
0130	263001 SUMP PIT, TYPE 2	1.000 EACH				
0140	266000 SANDBAG DIKES	8.000 CY				
0150	268000 STABILIZED CONSTRUCTION ENTRANCE	1485.000 TON				
0160	270500 DEWATERING BAG	1.000 EACH				
0170	271000 STORMWATER MANAGEMENT POND	4858.000 CY				
0180	272000 POND OUTLET STRUCTURE, CONCRETE, #1	1.000 EACH				
0190	272500 SKIMMER DEWATERING DEVICE	1.000 EACH				

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0200	274001 CLAY BORROW, STORMWATER MANAGEMENT POND, POND LINER	239.000 CY				
0210	302007 GRADED AGGREGATE BASE COURSE, TYPE B	10466.000 CY				
0220	401813 WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 70-22	5847.000 TON				
0230	401819 WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22	14636.000 TON				
0240	401821 WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	217.000 TON				
0250	401822 WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING	1322.000 TON				
0260	401823 WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	1903.000 TON				
0270	401830 WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 70-22 (NON- CARBONATE STONE)	6022.000 TON				
0280	402000 HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	115.000 TON				

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0290	406001 HOT-MIX PATCHING	40099.000 SYIN				
0300	503001 PATCHING P.C.C. PAVEMENT, 6' TO 15', TYPE A	684.000 SY				
0310	503006 DOWEL BARS	1700.000 EACH				
0320	602615 MODULAR BLOCK RETAINING WALL	2025.000 SF				
0330	606504 ALUMINUM HANDRAIL	5.000 LF				
0340	612021 REINFORCED CONCRETE PIPE, 15", CLASS IV	1088.000 LF				
0350	612022 REINFORCED CONCRETE PIPE, 18", CLASS IV	4882.000 LF				
0360	612023 REINFORCED CONCRETE PIPE, 24", CLASS IV	409.000 LF				
0370	612025 REINFORCED CONCRETE PIPE, 30", CLASS IV	188.000 LF				
0380	612030 REINFORCED CONCRETE PIPE, 18", CLASS V	306.000 LF				

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0390	612031 REINFORCED CONCRETE PIPE, 24", CLASS V	136.000 LF				
0400	612032 REINFORCED CONCRETE PIPE, 15", CLASS V	155.000 LF				
0410	612033 REINFORCED CONCRETE PIPE, 21", CLASS IV	189.000 LF				
0420	612034 REINFORCED CONCRETE PIPE, 36", CLASS IV	173.000 LF				
0430	612039 REINFORCED CONCRETE PIPE, 36" CLASS V	251.000 LF				
0440	612219 REINFORCED CONCRETE ELLIPTICAL PIPE, 24"X38", CLASS IV	86.000 LF				
0450	612223 REINFORCED CONCRETE ELLIPTICAL PIPE, 19"X30", CLASS V	192.000 LF				
0460	612503 PVC PIPE, 8"	90.000 LF				
0470	612529 PIPE VIDEO INSPECTION	12141.000 LF				
0480	617002 REINFORCED CONCRETE FLARED END SECTION, 15"	2.000 EACH				

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0490	617003 REINFORCED CONCRETE FLARED END SECTION, 18"	1.000 EACH				
0500	617004 REINFORCED CONCRETE FLARED END SECTION, 21"	1.000 EACH				
0510	617005 REINFORCED CONCRETE FLARED END SECTION, 24"	1.000 EACH				
0520	617009 REINFORCED CONCRETE FLARED END SECTION, 36"	3.000 EACH				
0530	617164 REINFORCED CONCRETE FLARED END SECTION, 19" X 30"	4.000 EACH				
0540	701010 PORTLAND CEMENT CONCRETE CURB, TYPE 1-8	3978.000 LF				
0550	701011 PORTLAND CEMENT CONCRETE CURB, TYPE 2	7351.000 LF				
0560	701020 IPCC CURB & GUTTER, TYPE 1-8	8639.000 LF				
0570	701022 IPCC CURB & GUTTER, TYPE 3-8	1574.000 LF				
0580	701027 PORTLAND CEMENT CONCRETE CURB, TYPE 1 MODIFIED	209.000 LF				

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0590	701505 P.C.C. PARKING BUMPER	4.000 EACH				
0600	705001 P.C.C. SIDEWALK, 4"	41184.000 SF				
0610	705002 P.C.C. SIDEWALK, 6"	5338.000 SF				
0620	705005 P. C. C. SIDEWALK, 8"	744.000 SF				
0630	705007 SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	493.000 SF				
0640	705519 PATTERNED PORTLAND CEMENT CONCRETE SIDEWALK, 6"	11861.000 SF				
0650	708051 DRAINAGE INLET, 34" X 24"	21.000 EACH				
0660	708052 DRAINAGE INLET, 48" X 30"	39.000 EACH				
0670	708053 DRAINAGE INLET, 48" X 48"	9.000 EACH				
0680	708054 DRAINAGE INLET, 66" X 30"	3.000 EACH				

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0690	708057 DRAINAGE INLET, 72" X 24"	6.000 EACH				
0700	708058 DRAINAGE INLET, 72" X 48"	4.000 EACH				
0710	708111 MANHOLE, 48" X 30"	4.000 EACH				
0720	708113 MANHOLE, 66" X 30"	1.000 EACH				
0730	708586 JUNCTION BOX, 48" X 48"	1.000 EACH				
0740	710001 ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	12.000 EACH				
0750	710002 ADJUSTING AND REPAIRING EXISTING MANHOLE	1.000 EACH				
0760	710501 CONVERTING EXISTING CATCH BASIN TO MANHOLE	2.000 EACH				
0770	710506 ADJUST AND REPAIR EXISTING SANITARY MANHOLE	17.000 EACH				
0780	712005 RIPRAP, R-4	234.000 SY				

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0790	713001 GEOTEXTILES, STABILIZATION	3376.000 SY				
0800	713003 GEOTEXTILES, RIPRAP	234.000 SY				
0810	715001 PERFORATED PIPE UNDERDRAINS, 6"	7954.000 LF				
0820	716000 CONVERTING EXISTING DRAINAGE INLET TO JUNCTION BOX	7.000 EACH				
0830	718511 CURB/SIDEWALK OPENING	1.000 EACH				
0840	720533 PERMANENT WOOD BARRICADE	1.000 EACH				
0850	727004 CHAIN-LINK FENCE, 6' HIGH	20.000 LF				
0860	727006 TERMINAL POSTS FOR 6' CHAIN-LINK FENCE	4.000 EACH				
0870	727014 CONSTRUCTION SAFETY FENCE	1000.000 LF				
0880	727015 MONUMENTS	61.000 EACH				

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0890	727522 DECORATIVE FENCE	288.000 LF				
0900	732002 TOPSOIL, 6" DEPTH	14357.000 SY				
0910	733002 TOPSOILING, 6" DEPTH	7186.000 SY				
0920	734013 PERMANENT GRASS SEEDING, DRY GROUND	27258.000 SY				
0930	734015 PERMANENT GRASS SEEDING, WET GROUND	6353.000 SY				
0940	734017 TEMPORARY GRASS SEEDING, DRY GROUND	13629.000 SY				
0950	735535 SOIL RETENTION BLANKET MULCH, TYPE 5	1007.000 SY				
0960	737002 MULCHING, PLANTS	1593.000 SY				
0970	737523 PLANTING	LUMP	LUMP			
0980	743003 ARROWPANELS, TYPE C	1062.000 EADY				

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0990	743004 FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	140.000 EADY				
1000	743006 PLASTIC DRUMS	188980.000 EADY				
1010	743007 TRAFFIC OFFICERS	300.000 HOUR	75.00000		22500.00	
1020	743010 FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	120.000 EADY				
1030	743050 FLAGGER, NEW CASTLE COUNTY, STATE	10483.000 HOUR	44.52000		466703.16	
1040	743062 FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	2621.000 HOUR	64.55000		169185.55	
1050	743504 WARNING SIGNS	32.000 EACH				
1060	743507 TEMPORARY BARRICADE, TYPE III	45270.000 LFDY				
1070	743525 TEMPORARY WARNING SIGNS	12050.000 EADY				
1080	744505 ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	13.000 EACH				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1090	744506 CONDUIT JUNCTION WELL, TYPE 7, 36" X 60" PRECAST POLYMER CONCRETE	4.000 EACH				
1100	744520 CONDUIT JUNCTION WELL, TYPE 1, 20" X 20" PRECAST CONCRETE	19.000 EACH				
1110	744523 CONDUIT JUNCTION WELL, TYPE 4, 20" X 42 1/2" PRECAST CONCRETE	9.000 EACH				
1120	744524 CONDUIT JUNCTION WELL, TYPE 5, 24" X 16" PRECAST CONCRETE	15.000 EACH				
1130	744525 REMOVAL OF EXISTING JUNCTION WELL	19.000 EACH				
1140	745521 SUPPLY OF 4" SDR-13.5 HDPE CONDUIT	223.000 LF				
1150	745524 SUPPLY OF 4" SCHEDULE 80 PVC CONDUIT	3509.000 LF				
1160	745527 SUPPLY OF 2 1/2" GALVANIZED STEEL CONDUIT	4167.000 LF				
1170	745528 SUPPLY OF 2" GALVANIZED STEEL CONDUIT	281.000 LF				
1180	745542 INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT-DIRECTIONAL BORE	1737.000 LF				

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1190	745543 INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT-OPEN CUT	14.000 LF				
1200	745544 INSTALLATION OF CONDUIT IN UNPAVED TRENCH	6336.000 LF				
1210	745545 INSTALLATION OF CONDUIT ON WOOD POLE	90.000 LF				
1220	745547 INSTALLATION OF ADDITIONAL CONDUITS IN TRENCH OR OPEN CUT PAVEMENT	37.000 LF				
1230	745556 INSTALLATION OF FIRST DUCT IN NEW CONDUIT	856.000 LF				
1240	745557 INSTALLATION OF EACH ADDITIONAL DUCT IN NEW CONDUIT	2158.000 LF				
1250	746512 CABLES, 1/#6 AWG	1538.000 LF				
1260	746515 INSULATED GROUND CABLES, 1/#6	569.000 LF				
1270	746516 SERVICE INSTALLATION	3.000 EACH				
1280	746518 ALUMINUM LIGHTING STANDARD WITH SINGLE DAVIT ARM, 35' POLE	6.000 EACH				

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1290	746594 LUMINAIRE (HPS), 250 WATT	6.000 EACH				
1300	746717 ELECTRIC SERVICE ON PEDESTAL WITH SERVICE RISER	3.000 EACH				
1310	746727 SUPPLY OF 8/2 UF W/GROUND	152.000 LF				
1320	746774 SUPPLY AND INSTALLATION OF LOOP DETECTOR WIRE	5290.000 LF				
1330	746830 REMOVAL OF CONCRETE POLE BASES AND CABINET FOUNDATIONS	6.000 CY				
1340	746847 POLE BASE, TYPE 3	12.000 EACH				
1350	746850 POLE BASE, TYPE 4	21.000 EACH				
1360	746852 POLE BASE, TYPE 6	6.000 EACH				
1370	747506 CABINET BASE	5.000 EACH				
1380	748015 PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	5515.000 SF				

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1390	748019 TEMPORARY MARKINGS, PAINT, 4"	77030.000 LF				
1400	748026 TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	2030.000 SF				
1410	748027 PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	232.000 LF				
1420	748506 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"	30354.000 LF				
1430	748530 REMOVAL OF PAVEMENT STRIPING	23050.000 SF				
1440	748553 PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	25.000 EACH				
1450	749687 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	183.000 EACH				
1460	749688 INSTALLATION OF 4" DIAMETER HOLE, LESS THAN OR EQUAL TO 6" DEPTH	1.000 EACH				
1470	753516 SANITARY SEWER SYSTEM	LUMP	LUMP			

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1480	758000 REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	7714.000 SY				
1490	759502 FIELD OFFICE, SPECIAL I	27.000 EAMO				
1500	760507 PROFILE MILLING, HOT-MIX	36481.000 SYIN				
1510	761001 BUTT JOINTS, HOT MIX	1165.000 SY				
1520	762001 SAW CUTTING, HOT MIX	10976.000 LF				
1530	762002 SAW CUTTING, CONCRETE, FULL DEPTH	321.000 LF				
1540	763000 INITIAL EXPENSE	LUMP	LUMP			
1550	763500 MAINTENANCE OF TRAFFIC	LUMP	LUMP			
1560	763501 CONSTRUCTION ENGINEERING	LUMP	LUMP			
1570	763508 PROJECT CONTROL SYSTEM DEVELOPMENT PLAN	LUMP	LUMP			

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1580	763509 CPM SCHEDULE UPDATES AND/OR REVISED UPDATES	25.000 EAMO				
1590	763597 UTILITY CONSTRUCTION ENGINEERING	150.000 HOUR				
	SECTION 0001 TOTAL					
	TOTAL BID					

Delaware Department of Transportation

CONTRACT T200312601.01
SR 7, NEWTOWN ROAD TO SR 273
NEW CASTLE COUNTY

QUESTIONS AND ANSWERS

January 25, 2012

	Question	Answer
29	Should the Traffic Officers be a fixed price of $75.00/Hour?	Yes. This is being addressed in Addendum #1
28	For bid item 612529 why is the bid proposal quantity 10356 when the newly installed storm piping is only 8076 lf?	Item 612529 includes video inspection of both newly installed pipe as well as existing pipe to be used as part of the drainage system. Due to adjustments in pipe quantities, this quantity is being adjusted as part of Addendum #1.
27	Where is the requirements for median planting soil found?	Special provision 737523-Planting
26	Sheet 4 of 115 section 700 #17 - where exactly are the millings going. What maintenance yard? I need the address.	Canal District Yard- 250 Bear-Christiana Road, Bear, DE 19701.
25	Sheet 4 of 115 section "misc." # 29 - work is to be completed by March 18, 2013....contract completion is October 23, 2013 with the last thing being done is the overlay of the entire project. The area to be completed by March 2013 has overlay in it. Please advise.	The overlay will be permitted. Note 29 is in place to ensure that all work within the jurisdictional/wetland areas is complete by March 2013.
24	Can we assume that the contractor is not responsible for any fiber pulling and tipping? That our scope is to install the conduit and junction wells.	This work will be done by the Traffic section's subcontractor.
23	Where do the traffic signals, Pedestrian Signal heads, push buttons, and type 3 base mounted poles get paid from? Who covers their scope of work?	This work will be done by the Traffic section's subcontractor.
22	Please provide us a storm structure schedule that lists the type of tops required on the inlets and the manholes.	Inlet top unit types are found in D-5 of the DelDOT Standard Construction Details.

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21	The following structures appear to be doghouse inlets, but no reference is made in the plans: DI - 63, DI - 64, DI - 66, DI - 71 Please advise as to whether or not these are doghouse inlets. If so, please advise of any others that my exist on this project.	Construction method of the inlets is at the discretion of the contractor. Doghouse inlets may be proposed by the contractor via shop drawings for approval by the DelDOT engineer. Doghouse inlet details can be found in the Standard Construction Details.
20	How will the state pay for the relocation of mailboxes?	Per note #3 in the project notes, all work and materials included in relocation of mailboxes will be paid under item 201000-Clearing and Grubbing.
19	Is pipe cleaning required prior to the pipe video inspection (item #612529)? If so, under what line item will the contractor be paid.	Cleaning the pipes prior to pipe video inspection is not required. As described in note #10, the existing pipe system will be videoed and the condition of the pipe system will be agreed upon prior to construction.
18	The plans & cross sections that we downloaded from the website are not to the proper scale. Please review the scale of the drawings for accuracy.	Because it started in 2003, this project uses the older 36x22 sheet borders, vs. the new 34x22. This may be causing the scaling issue. **The plans and cross sections that are available on the website are Unofficial Website Copy for informational purposes only. Please call (302) 760-2031 to order the contract documents.**
17	if the 6" underdrain needs to have video inspection then the total video inspection quantity increases from 8,166 LF to 16,120.	Video inspection of underdrain is incidental to the item, per Sec. 715 in standard specs.
16	The total linear footage of reinforced concrete pipe and pvc pipe from line number 0340 to 0460 is 8,166 LF versus the video inspection linear footage of 10,356 LF	Pipe lengths and video inspection quantities are being updated in addendum #1. Pipe video inspection quantity is now 12141 LF. This quantity includes 8,132 LF of proposed storm sewer pipe and 4,009 LF of existing storm sewer pipe.
15	What type of geotextile is required for the 6" underdrain installation? I could not find any information in the project plans, specs, or in the geotextile standard specification section 827.	From standard specs: 715.05 Filter Fabric. Filter fabric shall conform to the requirements of AASHTO M 288.
14	Please confirm that your quantities for the drainage inlet sediment control and the curb inlet sediment control are correct. My takeoff is a lot less than the total amount listed on the bid form.	Quantities for sediment control have been adjusted. These adjustments will be reflected in addendum #1. New quantities are as follows: Drainage inlet sediment control: 89 Curb Inlet sediment control: 22

CONTRACT T200312601.01

13	Signing striping and conduit Plan number 101 of 115 in regards to Co-125. The indicator on the plans states that it is existing conduit but the schedule indicates new conduit. Can you please advise.	Co-125 is a proposed conduit run. The identifier for this conduit is incorrectly patterned existing.
12	On plan sheet 30 there are two (2) DI-101 shown (Entrance Road Profile)	The DE at approximate station 242+25 should be labeled DI 106. Will be addressed in addendum #1.
11	Quantities for item 708051 and 708053 do not appear to be correct	Items have been adjusted. Item 708051 now has a quantity of 21 and 708053 has a quantity of 9. This will be addressed in addendum #1.
10	Quantities for items 612021, 612022, 612030, and 612033 do not appear to be correct.	Items have been adjusted. New quantities are as follows: 612021-1088 LF, 612022-4882 LF, 612030-306 LF, 612033-189 LF. Will be addressed in addendum #1.
9	Ref note 17 under section 700 on plan sheet 4 says millings will be delivered to (yard not named). Does DelDOT get the millings on this contract and if so where are they delivered?	Millings should be delivered to the Canal District yard. Will be addressed in addendum #1.
8	What disignates the limits of clearing on this contract?	The limit-of-construction line on the plans. Any obstacle within the LOC that is not designated “Do Not Disturb” may be cleared as part of this contract.
7	Item 743007 is not a fixed price item on the bid proposal.	Item 743007 will be shown as fixed price. To be addressed in addendum #1.
6	Where is the pattern detail shown for bid item 705519 on this contract?	The pattern for item 705519 is found in the standard details. Although not in the plans, the pattern specified should be herringbone. Will be addressed in addendum #1.
5	Sheet 75 of 115 - Stage 3A has a match line at station 100+50 Sheet 77 of 115 - Stage 3B has a match line at station 100+50 Sheet 79 of 115 - Stage 3C has a match line at station 84+50.	These matchlines are solely for point of reference. The phases referenced above do not contain any work beyond the matchlines at station 100+50 and station 84+50. Therefore, there are no sheets to match station 100+50 and station 84+50 in their respective phases.
4	The bid form item #712005 is listed as R-4 Rip Rap, but the construction details on sheet 49 of 115 state that the rip rap size is R-5. Please clarify the rip rap size required for this project.	R-4 Rip-rap is to be used. R-4 is shown on the construction sheets that correspond to the pipe energy dissipater locations and the rip-rap on the construction detail sheet (49 of 115) should read R-4, not R-5.

CONTRACT T200312601.01

3	The cross section plans that were downloaded from the DOT website for the above referenced project are missing sheets 1 - 30. In addition the cross section plans were not included in the with the other plans and disk that we picked up. Can the department update their website with a full set of cross section plans?	The Cross Sections have been updated on the website to include the missing sheets. Cross Sections are available for an additional charge. The cost is .25 per sheet.
2	Can you please advise the location of the insurance requirements for Contract No. T200312601.01?	Delaware Code § 6929 requires each successful bidder to purchase adequate insurance for the performance of the contract. The Department has no specifications beyond this requirement.
1	Can you please advise the location of the DBE requirements in the specifications for Contract No. T200312601.01?	This project is 100% state funded. Therefore, the project has no DBE requirements.

CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
T200312601	NEW CASTLE	SEE TITLE SHEET	3	115

SR 7, NEWTOWN ROAD TO SR 273

REVISIONS	
⚠ VOID THIS SHEET;	
TAO/MJV 01/20/12	

GENERAL NOTES

1. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 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 INCH INSIDE DIAMETER MINIMUM, 6 INCH INSIDE DIAMETER MAXIMUM) 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. THE COST SHALL BE INCIDENTAL TO THE CONTRACT.
5. 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 SITE REVIEWER REQUIREMENTS IN EFFECT ON THIS PROJECT SHALL BE AS MARKED WITH AN (X) BELOW:

EROSION POTENTIAL FOR THIS PROJECT	SITE REVIEWER REQUIREMENT
( ) INSIGNIFICANT	NONE
( ) MINOR	CONTRACTOR CERTIFICATION COURSE TRAINING ONLY. SEE 1. BELOW
( ) MEDIUM	AT THE TIME OF AWARD OF THE CONTRACT, EITHER THE SUPERINTENDENT OR A SEPERATE INDIVIDUAL FROM THE CONTRACTOR'S STAFF SHALL BE A CERTIFIED CONSTRUCTION REVIEWER (CCR), SEE 2 BELOW.
(X) MAJOR	SUPERINTENDENT AND INDIVIDUAL FROM CONTRACTOR'S STAFF SHALL BE CCR. SEE 3 BELOW.

1. AS DEFINED IN SECTION 13 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
2. AS DEFINED IN SECTION 12 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
3. ONE INDIVIDUAL FROM THE CONTRACTOR'S STAFF MUST BE A CCR AT THE TIME OF AWARD OF THE CONTRACT. THE SUPERINTENDENT MUST BECOME A CCR WITHIN ONE YEAR AFTER THE AWARD OF CONTRACT.

6. DISTURBED AREA: 22.5 AC

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

( )	NONE
(X)	ASCII DATA FILES WITH COORDINATES AND ELEVATIONS FOR PROPOSED POINTS AS SELECTED BY THE ENGINEER.
(X)	RASTER FILES, IN .CAL FILE FORMAT, FOR ALL PLAN SHEETS.
( )	EXISTING DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
( )	PROPOSED DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
( )	DESIGN FILE, IN .DGN FILE FORMAT, CONTAINING ONLY THE PROPOSED 3D TRIANGLES OF THE PROPOSED DIGITAL TERRAIN MODEL (DTM).

PREL. TRACING S.JB DESIGN KGM-A CHK'D. JRR

CONSTRUCTION

- MILL AND OVERLAY
- FULL-DEPTH PAVEMENT
- 4" P.C.C. SIDEWALK / 4" GABC, TYPE B
- 6" P.C.C. SIDEWALK / 6" GABC, TYPE B
- BUTT JOINT
- PAVEMENT PATCH
- 2" SUPERPAVE, TYPE C / 8" GABC, TYPE B
- 6" PATTERNED PCC SIDEWALK / 6" GABC, TYPE B
- REMOVAL OF EXISTING PAVEMENT (OUTSIDE LIMITS OF NEW PAVEMENT TEMPLATE), TOPSOIL, SEED & MULCH
- RIPRAP
- DRAINAGE INLET
- (DI) DRAINAGE INLET IDENTIFIER
- MANHOLE
- (MH) MANHOLE IDENTIFIER
- DRAINAGE PIPE & FLOW ARROW
- (P) PIPE IDENTIFIER
- FLARED END SECTION
- (FE) FLARED END SECTION IDENTIFIER
- JUNCTION BOX
- (JB) JUNCTION BOX IDENTIFIER
- (CJB) CONVERT TO JB IDENTIFIER
- UNDERDRAIN
- (UD) UNDERDRAIN IDENTIFIER
- UNDERDRAIN OUTLET STRUCTURE
- DITCH
- BFS BIOFILTRATION SWALE
- INTEGRAL P.C.C. CURB AND GUTTER TYPE 1
- P.C.C. CURB TYPE 1 &/OR 3
- P.C.C. CURB TYPE 2
- INTEGRAL P.C.C. CURB AND GUTTER TYPE 2
- INTEGRAL P.C.C. CURB AND GUTTER TYPE 3
- CURB (BY OTHERS)
- (C) CURB IDENTIFIER
- (C/O) CURB OPENING
- (CA) CURB ACCESS RAMP IDENTIFIER WITH TYPE NUMBER
- CONCRETE SAFETY BARRIER
- (B) BARRIER IDENTIFIER
- STEEL BEAM GUARDRAIL
- GUARDRAIL END SECTION
- (GR) GUARDRAIL IDENTIFIER
- METAL FENCE
- WOOD FENCE
- (DND) DO NOT DISTURB IDENTIFIER
- (M) R/W MONUMENT IDENTIFIER
- (RL/C) RELOCATE BY CONTRACTOR
- (A/C) ADJUST BY CONTRACTOR
- (RM/C) REMOVE BY CONTRACTOR
- (RL/O) RELOCATE BY OTHERS
- (A/O) ADJUST BY OTHERS
- (RM/O) REMOVE BY OTHERS
- (C/MH) CONVERT TO MANHOLE

CONSTRUCTION PHASING

- STONE CHECK DAM
- INLET SEDIMENT CONTROL
- PERIMETER DIKE SWALE
- TEMPORARY SWALE
- ED EARTH DIKE
- S-B SAND BAG DIVERSION
- EROSION CONTROL FABRIC
- ST SEDIMENT TRAP
- TRAFFIC CONTROL PLASTIC DRUMS
- ROAD WORK AHEAD XX FT CONSTRUCTION WARNING SIGNS
- EXISTING CONTOURS
- 5 PROPOSED CONTOURS
- CRASH CUSHION (SAND BARRELS)
- (PST) PORTABLE SEDIMENT TANK
- SF SILT FENCE
- RSF REINFORCED SILT FENCE
- (SF) SILT FENCE IDENTIFIER
- SW STILLING WELL
- SP SUMP PIT
- DWB DEWATERING BASIN
- ST SEDIMENT TRAP PIPE OUTLET
- TSD TEMPORARY SLOPE DRAIN
- SBD SAND BAG DIKE
- TYPE 3 BARRICADE
- PHASE TRAFFIC FLOW ARROW
- PORTABLE CONCRETE SAFETY BARRIER
- STABILIZED CONSTRUCTION ENTRANCE

SIGNING, STRIPING AND CONDUITS

- PAVE / SOD CONDUITS UNDER PAVEMENT / CONDUITS IN TRENCH
- CONDUIT JUNCTION WELL
- PAVEMENT MARKINGS
- LANE STRIPING
- NO TURN ON RED TRAFFIC SIGN AND POST (BY STATE FORCES)

RIGHT OF WAY

- RW PROPOSED RIGHT-OF-WAY
- RW&DA PROPOSED RIGHT OF WAY AND DENIAL OF ACCESS
- DA PROPOSED DENIAL OF ACCESS
- PE PROPOSED PERMANENT EASEMENT
- UE PROPOSED UTILITY EASEMENT
- TCE PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- 100 HISTORIC R/W CENTERLINE OR BASELINE
- 100 PROPOSED RIGHT OF WAY BASELINE
- EXISTING RIGHT-OF-WAY LINE
- PL EXISTING PROPERTY LINE
- R/W MONUMENT

PROPOSED LANDSCAPING

- CONIFEROUS TREE
- SHRUB
- DECIDUOUS TREE

MISCELLANEOUS SYMBOLS

- LOC LIMIT OF CONSTRUCTION
- NORTH ARROW
- CZ CLEAR ZONE
- 100 CONSTRUCTION BASELINE
- PROPOSED UTILITY POLE
- PROPOSED LUMINAIRE ON NEW POLE
- PROPOSED LUMINAIRE ON EXISTING POLE
- P PROPOSED ELECTRICAL SERVICE
- (W/2) IMPACT AREA INDENTIFIER
- (RR/1) RIPRAP IDENTIFIER
- (F/1) FENCE IDENTIFIER
- (AB/0) ABANDON BY OTHERS
- (LS/1) PROPOSED LIGHTING STANDARD IDENTIFIER
- (PB/6) PROPOSED LIGHTING POLE BASE IDENTIFIER

UTILITIES

AT A MINIMUM, THE FOLLOWING UTILITIES EXIST WITHIN THE PROJECT LIMITS:

EXISTING		PROPOSED	
AW	ARTESIAN WATER	AW	*ARTESIAN WATER*
DPLE	DELMARVA POWER ELECTRIC	DPLE	*DELMARVA POWER ELECTRIC*
DPLG	DELMARVA POWER GAS	DPLG	*DELMARVA POWER GAS*
COM	COMCAST CABLE	COM	*COMCAST CABLE*
NCC	NEW CASTLE COUNTY SANITARY SEWER	VER	*VERIZON DELAWARE TELEPHONE*
VER	VERIZON DELAWARE TELEPHONE	NCC	*NEW CASTLE COUNTY SANITARY SEWER*
DELDOT	DELDOT COMMUNICATION CABLE CONDUIT		

NOTES & LEGEND

SYMBOLS SHOWN ON THIS SHEET DO NOT NECESSARILY APPEAR IN THIS CONTRACT.

EXISTING DETAIL

- SURVEY TRAVERSE POINT
- POINT OF INTERSECTION - TANGENTS
- POINT OF TANGENCY & CURVATURE
- T.P. SURVEY TIE POINT LOCATION
- B.M. BENCH MARK LOCATION
- A-6(4) A-2(4) SOIL BORING LOG - PROFILE VIEW
- SOIL BORING LOCATION - PLAN VIEW
- GnB2 GnB3 SOIL TYPE AND BOUNDARY LINE
- MARSH OR WET AREAS / LAWN
- SMALL BUSH OR ORNAMENTAL SHRUB
- CONIFEROUS TREE - 6" AND LARGER
- DECIDUOUS TREE - 6" AND LARGER
- HEDGEROW OR THICKET
- WOODS LINE
- TREE STUMP
- UTILITY TEST HOLE LOCATION
- G GAS MANHOLE
- S SANITARY SEWER MANHOLE
- T TELEPHONE MANHOLE
- E ELECTRIC MANHOLE
- F.H. FIRE HYDRANT
- B TELEPHONE BOOTH
- UTILITY POLE GUY WIRE ANCHOR
- G.V. GAS VALVE
- W.V. WATER VALVE
- WOOD POLE
- W.M. WATER METER
- VENT SANITARY SEWER VENT
- S.V. SANITARY SEWER SURFACE FIXTURE
- T TELEPHONE TEST POINT
- G.M. GAS METER
- POLE MOUNTED LUMINAIRE
- LAMP RESIDENTIAL STREET LAMP AND POST
- F.P. FLAG POLE
- M.B. MAIL BOX
- (TYPE LABEL) CURB
- (TYPE LABEL) INTEGRAL CURB & GUTTER
- FLEXIBLE PAVEMENT EDGE
- RIGID PAVEMENT EDGE
- STEEL BEAM GUARD RAIL
- WOOD POST AND CABLE GUARD RAIL
- C.B. STORM DRAINAGE SURFACE INLET
- STORM DRAINAGE MANHOLE
- J.B. STORM DRAINAGE JUNCTION BOX
- (SIZE/TYPE, LABEL) EXISTING DRAINAGE PIPE AND FLOW ARROW
- DRAINAGE PIPE HEADWALL
- EROSION CONTROL STONE
- STREAM, DITCH OR POND BOUNDARY
- STREAM FLOW DIRECTION ARROW
- TRAFFIC CONTROL SIGN POST
- TRAFFIC SIGNAL SUPPORT BASE
- TRAFFIC SIGNAL CONTROL BOX AND/OR BASE
- J.W. TRAFFIC SIGNAL CONDUIT JUNCTION WELL
- E ELECTRIC TRANSFORMER
- TV CABLE TELEVISION DISTRIBUTION BOX
- C.M. CONCRETE MONUMENT OR PROPERTY MARKER
- I.P. PROPERTY LINE MARKER - IRON PIPE
- R/C PROPERTY LINE MARKER - REBAR AND CAP
- STONE PILLAR - CONC. BLOCK OR POURED
- STRAND OR WOVEN WIRE FENCE
- WOODEN FENCE
- LUMINAIRE SUPPORT POLE AND/OR BASE
- G.P. SERVICE STATION FUEL PUMP
- WELL WELL HEAD
- S.D.F. SEPTIC DRAIN FIELD
- STONE WALL
- BLOCK WALL
- RAILROAD TRACKS
- WL DELINEATED WETLANDS
- OHW ORDINARY HIGH WATER

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.
( )	EXISTING DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
( )	PROPOSED DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
( )	DESIGN FILE, IN .DGN FILE FORMAT, CONTAINING ONLY THE PROPOSED 3D TRIANGLES OF THE PROPOSED DIGITAL TERRAIN MODEL (DTM).

NOTE: THE DOCUMENT ENTITLED "RELEASE FOR DELIVERY OF DOCUMENTS IN ELECTRONIC FORM TO A CONTRACTOR" MUST BE SIGNED BY ALL PARTIES PRIOR TO THE DELIVERY OF ANY ELECTRONIC PROJECT FILES.

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

( )	THE CONTRACTOR SHALL NOT BE REQUIRED TO HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT.
(X)	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.
( )	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE ATSSA SUPERVISOR'S SOLE JOB SHALL BE SUPERVISION OF THE INSTALLATION, OPERATION AND MAINTENANCE OF TRAFFIC CONTROL DEVICES FOR THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT SHALL NOT BE THE ATSSA SUPERVISOR.

9. THE DISTURBED AREA FOR THIS PROJECT IS 22.5 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.

PREL. TRACING — S.JB — DESIGN — KGM-A — CHKD. — JRR

CONSTRUCTION

- MILL AND OVERLAY
- FULL-DEPTH PAVEMENT
- 4" P.C.C. SIDEWALK / 4" GABC. TYPE B
- 6" P.C.C. SIDEWALK / 6" GABC. TYPE B
- BUTT JOINT
- PAVEMENT PATCH
- 2" SUPERPAVE. TYPE C / 8" GABC. TYPE B
- ⚠ 6" PATTERNED PCC SIDEWALK (HERRINGBONE PATTERN) / 6" GABC. TYPE B
- REMOVAL OF EXISTING PAVEMENT (OUTSIDE LIMITS OF NEW PAVEMENT TEMPLATE): TOPSOIL, SEED & MULCH
- RIPRAP
- DRAINAGE INLET
- DRAINAGE INLET IDENTIFIER (DI)
- MANHOLE
- MANHOLE IDENTIFIER (MH)
- DRAINAGE PIPE & FLOW ARROW
- PIPE IDENTIFIER (P)
- FLARED END SECTION
- FLARED END SECTION IDENTIFIER (FE)
- JUNCTION BOX
- JUNCTION BOX IDENTIFIER (JB)
- CONVERT TO JB IDENTIFIER (CJB)
- UNDERDRAIN
- UNDERDRAIN IDENTIFIER (UD)
- UNDERDRAIN OUTLET STRUCTURE
- DITCH
- BFS — BIOFILTRATION SWALE

- INTEGRAL P.C.C. CURB AND GUTTER TYPE 1
- P.C.C. CURB TYPE 1 &/OR 3
- P.C.C. CURB TYPE 2
- INTEGRAL P.C.C. CURB AND GUTTER TYPE 2
- INTEGRAL P.C.C. CURB AND GUTTER TYPE 3
- CURB (BY OTHERS)
- CURB IDENTIFIER (C)
- CURB OPENING (C/O)
- CURB ACCESS RAMP IDENTIFIER WITH TYPE NUMBER (CR)
- CONCRETE SAFETY BARRIER
- BARRIER IDENTIFIER (B)
- STEEL BEAM GUARDRAIL
- GUARDRAIL END SECTION
- GUARDRAIL IDENTIFIER (GR)
- METAL FENCE
- WOOD FENCE
- DO NOT DISTURB IDENTIFIER (DND)
- R/W MONUMENT IDENTIFIER (M)
- RELOCATE BY CONTRACTOR (RL/C)
- ADJUST BY CONTRACTOR (A/C)
- REMOVE BY CONTRACTOR (RM/C)
- RELOCATE BY OTHERS (RL/O)
- ADJUST BY OTHERS (A/O)
- REMOVE BY OTHERS (RM/O)
- CONVERT TO MANHOLE (C/MH)

CONSTRUCTION PHASING

- STONE CHECK DAM
- INLET SEDIMENT CONTROL
- PERIMETER DIKE SWALE
- TEMPORARY SWALE
- EARTH DIKE (ED)
- SAND BAG DIVERSION (S-B)
- EROSION CONTROL FABRIC
- SEDIMENT TRAP (ST)
- TRAFFIC CONTROL PLASTIC DRUMS
- CONSTRUCTION WARNING SIGNS (ROAD WORK 1000 FT)
- EXISTING CONTOURS
- PROPOSED CONTOURS (5)
- CRASH CUSHION (SAND BARRELS)

- PORTABLE SEDIMENT TANK (PST)
- SILT FENCE — SF —
- REINFORCED SILT FENCE — RSF —
- SILT FENCE IDENTIFIER (SF)
- STILLING WELL (SW)
- SUMP PIT (SP)
- DEWATERING BASIN (DWB)
- SEDIMENT TRAP PIPE OUTLET (ST)
- TEMPORARY SLOPE DRAIN (TSD)
- SAND BAG DIKE (SBD)
- TYPE 3 BARRICADE
- TRAFFIC FLOW ARROW (PHASE)
- PORTABLE CONCRETE SAFETY BARRIER
- STABILIZED CONSTRUCTION ENTRANCE

SIGNING, STRIPING AND CONDUITS

- — PAVE — / — SOD — CONDUITS UNDER PAVEMENT / CONDUITS IN TRENCH
- CONDUIT JUNCTION WELL
- PAVEMENT MARKINGS
- LANE STRIPING
- TRAFFIC SIGN AND POST (BY STATE FORCES) (NO TURN ON RED)

RIGHT OF WAY

- — RW — PROPOSED RIGHT-OF-WAY
- — RW&DA — PROPOSED RIGHT OF WAY AND DENIAL OF ACCESS
- — DA — PROPOSED DENIAL OF ACCESS
- - -PE- - - PROPOSED PERMANENT EASEMENT
- - -UE- - - PROPOSED UTILITY EASEMENT
- — —TCE— PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- 100 HISTORIC R/W CENTERLINE OR BASELINE
- 100 PROPOSED RIGHT OF WAY BASELINE
- EXISTING RIGHT-OF-WAY LINE
- ℄ EXISTING PROPERTY LINE
- R/W MONUMENT

PROPOSED LANDSCAPING

- CONIFEROUS TREE
- SHRUB
- DECIDUOUS TREE

MISCELLANEOUS SYMBOLS

- -----LOC----- LIMIT OF CONSTRUCTION
- NORTH ARROW
- — CZ — CLEAR ZONE
- 100 CONSTRUCTION BASELINE
- PROPOSED UTILITY POLE
- PROPOSED LUMINAIRE ON NEW POLE
- PROPOSED LUMINAIRE ON EXISTING POLE
- P PROPOSED ELECTRICAL SERVICE
- W/2 IMPACT AREA INDENTIFIER
- RR/I RIPRAP IDENTIFIER
- F/I FENCE IDENTIFIER
- AB/O ABANDON BY OTHERS
- LS/I PROPOSED LIGHTING STANDARD IDENTIFIER
- PB/6 PROPOSED LIGHTING POLE BASE IDENTIFIER

UTILITIES

AT A MINIMUM, THE FOLLOWING UTILITIES EXIST WITHIN THE PROJECT LIMITS:

EXISTING		PROPOSED	
— AW —	ARTESIAN WATER	— AW —	ARTESIAN WATER
— DPLE —	DELMARVA POWER ELECTRIC	— DPLE —	DELMARVA POWER ELECTRIC
— DPLG —	DELMARVA POWER GAS	— DPLG —	DELMARVA POWER GAS
— COM —	COMCAST CABLE	— COM —	COMCAST CABLE
— NCC —	NEW CASTLE COUNTY SANITARY SEWER	— VER —	VERIZON DELAWARE TELEPHONE
— VER —	VERIZON DELAWARE TELEPHONE	— NCC —	NEW CASTLE COUNTY SANITARY SEWER
— DELDOT —	DELDOT COMMUNICATION CABLE CONDUIT		

NOTES & LEGEND

SYMBOLS SHOWN ON THIS SHEET DO NOT NECESSARILY APPEAR IN THIS CONTRACT.

CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
T200312601	NEW CASTLE	SEE TITLE SHEET	3A	115

SR 7, NEWTOWN ROAD TO SR 273

REVISIONS

⚠ SHEET ADDED:	
TAO/MJV 01/20/12	

EXISTING DETAIL

- SURVEY TRAVERSE POINT
- POINT OF INTERSECTION - TANGENTS
- POINT OF TANGENCY & CURVATURE
- T.P. SURVEY TIE POINT LOCATION
- B.M. BENCH MARK LOCATION
- SOIL BORING LOG - PROFILE VIEW (A-6(4) A-2(4))
- SOIL BORING LOCATION - PLAN VIEW
- GnB2 / GnB3 SOIL TYPE AND BOUNDARY LINE
- MARSH OR WET AREAS / LAWN
- SMALL BUSH OR ORNAMENTAL SHRUB
- CONIFEROUS TREE - 6" AND LARGER
- DECIDUOUS TREE - 6" AND LARGER
- HEDGEROW OR THICKET
- WOODS LINE
- TREE STUMP
- UTILITY TEST HOLE LOCATION
- GAS MANHOLE (G)
- SANITARY SEWER MANHOLE (S)
- TELEPHONE MANHOLE (T)
- ELECTRIC MANHOLE (E)
- F.H. FIRE HYDRANT
- TELEPHONE BOOTH (B)
- UTILITY POLE GUY WIRE ANCHOR
- G.V. GAS VALVE
- W.V. WATER VALVE
- WOOD POLE
- W.M. WATER METER
- VENT SANITARY SEWER VENT
- S.V. SANITARY SEWER SURFACE FIXTURE
- TELEPHONE TEST POINT (T)
- G.M. GAS METER
- POLE MOUNTED LUMINAIRE
- LAMP RESIDENTIAL STREET LAMP AND POST
- F.P. FLAG POLE
- M.B. MAIL BOX

- (TYPE LABEL) CURB
- (TYPE LABEL) INTEGRAL CURB & GUTTER
- FLEXIBLE PAVEMENT EDGE
- RIGID PAVEMENT EDGE
- STEEL BEAM GUARD RAIL
- WOOD POST AND CABLE GUARD RAIL
- C.B. STORM DRAINAGE SURFACE INLET
- STORM DRAINAGE MANHOLE (D)
- J.B. STORM DRAINAGE JUNCTION BOX
- (SIZE/TYPE, LABEL) EXISTING DRAINAGE PIPE AND FLOW ARROW
- DRAINAGE PIPE HEADWALL
- EROSION CONTROL STONE
- STREAM, DITCH OR POND BOUNDARY
- STREAM FLOW DIRECTION ARROW
- TRAFFIC CONTROL SIGN POST
- TRAFFIC SIGNAL SUPPORT BASE
- TRAFFIC SIGNAL CONTROL BOX AND/OR BASE
- J.W. TRAFFIC SIGNAL CONDUIT JUNCTION WELL
- E ELECTRIC TRANSFORMER
- TV CABLE TELEVISION DISTRIBUTION BOX
- C.M. CONCRETE MONUMENT OR PROPERTY MARKER
- I.P. PROPERTY LINE MARKER - IRON PIPE
- R/C PROPERTY LINE MARKER - REBAR AND CAP
- STONE PILLAR - CONC. BLOCK OR POURED
- STRAND OR WOVEN WIRE FENCE
- WOODEN FENCE
- LUMINAIRE SUPPORT POLE AND/OR BASE
- G.P. SERVICE STATION FUEL PUMP
- WELL WELL HEAD
- S.D.F. SEPTIC DRAIN FIELD
- STONE WALL
- BLOCK WALL
- RAILROAD TRACKS
- WL DELINEATED WETLANDS
- OHW ORDINARY HIGH WATER

on=1-5,9

1/20/2012

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PROJECT NOTES

CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
T200312601	NEW CASTLE	SEE TITLE SHEET	4	115

SR 7, NEWTOWN ROAD TO SR 273

REVISIONS

⚠DELETED NOTE 15, MODIFIED	
NOTE 17; TAO/MJV 01/20/12	

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."

SECTION 200

3. THE CONTRACTOR SHALL REMOVE AND RESET ALL MAILBOXES TO MAINTAIN MAIL SERVICE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL RELOCATE MAILBOXES AS REQUIRED BY THE PROPOSED GEOMETRICS AND AS DIRECTED BY THE ENGINEER. WHEN RELOCATING MAILBOXES IN CURBED SECTIONS, THE FACE OF THE MAILBOX SHALL BE FLUSH WITH THE BACK EDGE OF CURB. WHEN RELOCATING MAILBOXES IN OPEN SECTIONS, THE FACE OF THE MAILBOX SHALL SET BACK 8 INCHES FROM THE EDGE OF THE PAVED SHOULDER. THE BOTTOM OF THE MAILBOX SHALL BE SET 46 INCHES ABOVE THE ROADWAY SURFACE. MAILBOXES LOCATED AT DRIVEWAY ENTRANCES SHALL BE PLACED ON THE FAR SIDE OF THE DRIVEWAY IN THE DIRECTION OF TRAVEL. POSTS BEING RESET IN CONCRETE SIDEWALK SHALL BE PLACED IN AN APPROPRIATE SIZE PVC SLEEVE. COST FOR ALL WORK AND MATERIALS SHALL BE PAID UNDER ITEM 201000 - CLEARING AND GRUBBING.

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

5. THE ENGINEER MAY REQUIRE THE CONTRACTOR TO EXCAVATE TEST PITS ALONG PROPOSED DRAINAGE RUNS, AT POINTS OF POSSIBLE UTILITY CONFLICTS, TO DETERMINE IF A CONFLICT EXISTS. ANY CONFLICTS SHALL BE COORDINATED BY THE CONTRACTOR, WITH THE ENGINEER AND THE UTILITY COMPANY INVOLVED. THE ENGINEER SHALL ULTIMATELY DETERMINE THE SOLUTION TO THE UTILITY CONFLICT. TEST HOLES SHALL BE MEASURED AND PAID FOR IN ACCORDANCE WITH ITEM 208000, BUT ONLY TO THE ACTUAL DEPTH EXCAVATED.

6. ITEMS TO BE REMOVED UNDER ITEM 211000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
   - CONCRETE SUPPORT FOUNDATIONS FOR FENCES AND MISCELLANEOUS SMALL STRUCTURES
   - DRAINAGE STURCTURES AND FLARED END SECTIONS
   - EXISTING BRICK OR BLOCK MAILBOXES AND MISCELLANEOUS LANDSCAPE STRUCTURES

7. THIS PROJECT IS COVERED UNDER AN NPDES GENERAL PERMIT FOR CONSTRUCTION. UNDER THE GENERAL PERMIT, COMPLIANCE WITH DELDOT'S APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLANS WILL CONSTITUTE COMPLIANCE WITH THE NPDES INDUSTRIAL PERMITTING REQUIREMENTS FOR THIS CONSTRUCTION PROJECT. A COPY OF THE NPDES GENERAL PERMIT AND NOI IS KEPT ON FILE IN EACH OF THE CONSTRUCTION OFFICES AND THE DEPARTMENT'S TEAM SUPPORT SECTION. A COPY OF THE GENERAL PERMIT OR THE NOI CAN BE OBTAINED UPON REQUEST FROM EITHER THE DEPARTMENT'S STORMWATER ENGINEER OR THE APPROPRIATE CONSTRUCTION ENGINEER.

SECTION 300

8. 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.

SECTION 300

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 COURSE, TYPE 'B'.

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

   f. SPECIAL PROVISION 302514 MILLED HOT-MIX BASE COURSE IS PROVIDED TO SPECIFY THE MEANS OF LAY DOWN AND COMPACTION AS WELL AS THE MATERIAL REQUIREMENTS FOR MILLINGS USED AS BASE COURSE. ALL COSTS TO BRING THE MILLINGS INTO COMPLIANCE WITH THE REQUIREMENTS OF 302514 MILLED HOT-MIX BASE COURSE ARE INCIDENTAL TO ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B'. NO PAYMENT WILL BE MADE FOR ITEM 302514 - MILLED HOT-MIX BASE COURSE. THE QUANTITY OF MILLINGS USED FOR BASE COURSE WILL BE PAID FOR UNDER ITEM 302007 - GRADED AGGREGATE BASE COURSE.

SECTION 400

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

SECTION 600

10. THE DEPARTMENT AND THE CONTRACTOR SHALL INSPECT ALL EXISTING PIPES AND DRAINAGE STRUCTURES TO BE USED IN THE FINAL DRAINAGE SYSTEM AND AGREE ON THE CONDITION PRIOR TO THE START OF CONSTRUCTION. EXISTING PIPES AND DRAINAGE STRUCTURES DAMAGED DUE TO CONTRACTOR OPERATIONS SHALL BE REPAIRED OR REPLACED IN-KIND AT THE CONTRACTOR'S EXPENSE. THE 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.

SECTION 700

11. 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.

12. WHERE PROPOSED CONCRETE SIDEWALK IS CONSTRUCTED TO MEET EXISTING SIDEWALK, THE EXISTING SIDEWALK SHALL BE SAWCUT AT THE TIE-IN POINT OR MEET THE NEAREST EXISTING SIDEWALK JOINT. ALL SAW CUTTING SHALL BE FULL DEPTH, UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER AND SHALL BE PAID FOR UNDER ITEM 762002 - SAWCUTTING, CONCRETE, FULL DEPTH.

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

14. 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.

⚠ ~~15. 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 GRATE/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.~~

16. THE NEW CASTLE COUNTY DEPARTMENT OF PUBLIC WORKS SHALL SUPPLY AND THE STATE'S CONTRACTOR SHALL INSTALL NEW SELF SEALING MANHOLE FRAMES AND COVERS ON ALL COUNTY SEWER MANHOLES, THAT ARE NOT BEING RELOCATED, WITHIN THE PROJECT LIMITS IN ACCORDANCE WITH THE COUNTY'S STANDARD SPECIFICATIONS. THE EXISTING MANHOLE FRAMES AND COVERS THAT ARE REMOVED SHALL BECOME THE PROPERTY OF THE STATE'S CONTRACTOR. PAYMENT SHALL BE INCIDENTAL TO ITEM 710506 - ADJUST AND REPAIR EXISTING SANITARY SEWER MANHOLE.

⚠ 17. THE CONTRACTOR SHALL DELIVER ALL MILLED MATERIAL TO THE DELAWARE DEPARTMENT OF TRANSPORTATION'S ~~(FILL in yard name)~~ CANAL DISTRICT MAINTENANCE YARD. THE MATERIAL SHALL BE NEATLY STOCKPILED AT THE YARD. COSTS FOR THIS WORK SHALL BE INCIDENTAL TO ITEM 760507 - PROFILE MILLING, HOT-MIX.

18. 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.

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

MISCELLANEOUS

20. SEE ENVIRONMENTAL COMPLIANCE PLANS FOR ENVIRONMENTAL RESTRICTIONS/GUIDANCE ASSOCIATED WITH THIS PROJECT.

21. RIGHT-OF-WAY PLANS FOR RIGHT-OF-WAY OR EASEMENT STAKEOUT PURPOSES ARE AVAILABLE FROM DELDOT.

22. CROSS SECTIONS USED IN THE PREPARATION OF THIS CONTRACT ARE AVAILABLE FROM DELDOT.

23. NO CONSTRUCTION, STAGING, STOCKPILING OR OTHER ACTIVITY SHALL OCCUR ON PARCEL 5-R, OLD FORT U.A.M.E. CHURCH (TAX PARCEL NO. 10-028.00-029). THE EXISTING CEMETERY LOCATED ON THIS PARCEL REQUIRES PROTECTION DURING CONSTRUCTION. CONSTRUCTION FENCE SHALL BE PLACED ALONG THE PROPERTY LINE AND REMAIN IN PLACE FOR THE DURATION OF ALL CONSTRUCTION ACTIVITY ASSOCIATED WITH THE PROJECT. COST FOR ALL WORK AND MATERIALS SHALL BE PAID FOR UNDER ITEM 727014 - CONSTRUCTION SAFETY FENCE. THE LIMITS OF THE CEMETERY ARE NOT FULLY KNOWN. IN THE UNLIKELY EVENT THAT REMAINS ARE FOUND DURING THE PROJECT, THE CONTRACTOR SHALL CEASE ALL ACTIVITY IN THE AREA OF THE DISCOVERY, AND SHALL IMMEDIATELY CONTACT DELDOT AND THE STATE HISTORIC PRESERVATION OFFICE, IN COMPLIANCE WITH STATE LAW (DEL. CODE TITLE 7 CHAPTER 54).

24. THE CONTRACTOR SHALL PLACE A WEDGE OF HOT-MIX AT 20:1 AROUND CONSTRUCTED DRAINAGE INLETS PRIOR TO PLACEMENT OF FINAL HOT-MIX TYPE C PAVING. THE CONTRACTOR SHALL NOTCH DRAINAGE INLETS TO MAINTAIN POSITIVE DRAINAGE CONDITIONS ALONG THE ROADWAY PRIOR TO PLACEMENT OF TYPE C FINAL HOT-MIX PAVING. NOTCHES SHALL BE REPAIRED TO PROPER CONDITION PRIOR TO OVERLAY. COST OF THIS WORK SHALL BE INCIDENTAL TO ITEM 710001- ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET.

25. 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.

26. THE CONTRACTOR SHALL CONTACT LOCAL POLICE AND FIRE EMERGENCY SERVICES FOURTEEN (14) DAYS PRIOR TO THE START OF CONSTRUCTION. SR 7 IS A PRIMARY EMERGENCY ROUTE AND ACCESS FOR EMERGENCY VEHICLES MUST BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL NOTIFY EMERGENCY SERVICES WITH ANY LANE CLOSURES DURING CONSTRUCTION.

27. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE SAINT ELIZABETH ANN SETON R.C. CHURCH AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL NOT DO ANY WEEKEND WORK DURING THE ANNUAL CARNIVAL WHICH OCCURS EACH YEAR DURING THE MONTH OF JULY.

28. THE PROPOSED LANDSCAPING PLAN ON PARCEL 4-R HAS BEEN COORDINATED WITH THE LAND OWNER. A AGREEMENT IS IN PLACE TO PERFORM THIS WORK BUT A TEMPORARY CONSTRUCTION EASEMENT IS NOT SHOWN ON THE PLANS. ANY WORK OUTSIDE OF THE PERMANENT EASEMENT SHOWN ON THE PLANS SHALL BE COORDINATED DIRECTLY WITH THE PROPERTY OWNER.

29. THE DEPARTMENT HAS SECURED A NATIONWIDE PERMIT #14 (NWP 14) FOR WORK AREAS ON THIS CONTRACT THAT ARE REGULATED BY THE U.S. ARMY CORPS OF ENGINEERS (USACE). THESE REGULATED AREAS, AS DENOTED BY AN OHW AND/OR WL LINE, AND THEIR ASSOCIATED CONSTRUCTION IMPACTS ARE SHOWN ON THE CONTRACT'S ENVIRONMENTAL COMPLIANCE PLAN SHEETS. ALL CONTRACTED WORK IN THE AREAS PERMITTED BY NWP 14 MUST BE COMPLETED BEFORE MARCH 18, 2013. NO CONTRACT TIME EXTENSIONS OR MONETARY COMPENSATION FOR ANY ADDITIONAL WORK WILL BE GRANTED BY THE DEPARTMENT IF THE CONTRACTOR DOES NOT COMPLETE THE WORK BEFORE MARCH 18, 2013.

ASSOCIATED CONTRACTS

CONTRACT NO.	CONTRACT NAME
20-126-01	SR 7, U.S. RTE. 40 TO NEWTOWN ROAD
23-119-05	SCHOOL BELL ROAD, RTE. 1 TO U.S. RTE. 40
CN-16	SR 7, BEAR TO CHRISTIANA
521	SR 7, WIDENING BEAR TO CHRISTIANA

FOR INFORMATION ONLY

EARTHWORK SUMMARY

EXCAVATION

FROM CROSS SECTIONS	23,467 C.Y.
FROM OTHER SOURCES (SEE NOTE 1)	+2,933 C.Y.
TOTAL EXCAVATION (ITEM 202000)	26,400 C.Y.

EXCAVATION AVAILABLE FOR EMBANKMENT

TOTAL EXCAVATION (ITEM 202000)	26,400 C.Y.
PLUS EXCAVATION FROM SWM (ITEM 271000)	+4,858 C.Y.
PLUS EXCAVATION FROM PIPE TRENCHES (ITEM 208000)	+1,454 C.Y.
LESS UNSUITABLE MATERIAL (SEE NOTE 2)	–19,077 C.Y.
SUBTOTAL	13,635 C.Y.
LESS 0.85 SHRINKAGE FACTOR	–2,045 C.Y.
SUBTOTAL	11,590 C.Y.
LESS 18% DENSIFICATION	–2,086 C.Y.
EXCAVATION AVAILABLE FOR EMBANKMENT	9,504 C.Y.
TOTAL EXCAVATION AVAILABLE FOR EMBANKMENT	
EXCAVATION MEETING BORROW TYPE 'A'	0 C.Y.
EXCAVATION MEETING BORROW TYPE 'F'	9,504 C.Y.

EMBANKMENT REQUIREMENTS

BORROW TYPE 'A'	
FROM CROSS SECTIONS	4,154 C.Y.
PLUS UNDERCUT AREAS	+1,002 C.Y.
PLUS 30% COMPACTION	+1,547 C.Y.
TOTAL BORROW TYPE A REQUIRED	6,703 C.Y.
BORROW TYPE 'F'	
FROM CROSS SECTIONS	3,372 C.Y.
REFILL TOPSOIL AND BITUMINOUS AREAS	+1,988 C.Y.
PLUS 30% COMPACTION	+1,608 C.Y.
TOTAL BORROW TYPE F REQUIRED	6,968 C.Y.

CUT / FILL BALANCE (+ = EXCESS, – = NEED)

BORROW TYPE 'A'	–6,703 C.Y.
BORROW TYPE 'F'	+2,536 C.Y.

TOPSOIL BALANCE (+ = EXCESS, – = NEED)

TOPSOIL REMOVED FROM SITE (IN CUT & FILL)	5,988 C.Y.	
LESS UNSUITABLE TOPSOIL (80%)	–4,790 C.Y.	
AVAILABLE TOPSOIL FOR REUSE (@ 6" DEPTH) (733000)	1,198 C.Y.	=7,186 S.Y.
TOPSOIL REQUIRED		–21,543 S.Y.
TOPSOIL BALANCE (732002)		–14,357 S.Y.

EARTHWORK NOTES:

1. OTHER SOURCES OF EXCAVATION MAY INCLUDE EXCAVATION FOR TOPSOIL IN CUT AREAS, TOPSOIL STRIPPING IN FILL AREAS, EXCAVATION FOR MOT, ETC.
2. UNSUITABLE MATERIALS INCLUDE TOPSOIL, UNDERCUT SOILS, BITUMINOUS PAVEMENT, ETC.
3. THE VALUES LISTED IN THE EARTHWORK SUMMARY ARE APPROXIMATE AND ARE NOT TO BE USED AS A BASIS OF PAYMENT. THE EARTHWORK SUMMARY IS CONSIDERED FOR INFORMATION ONLY.

PREL. TRACING — S.JB — DESIGN — KGM-A — CHKD. — JRR

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TYPICAL SECTIONS

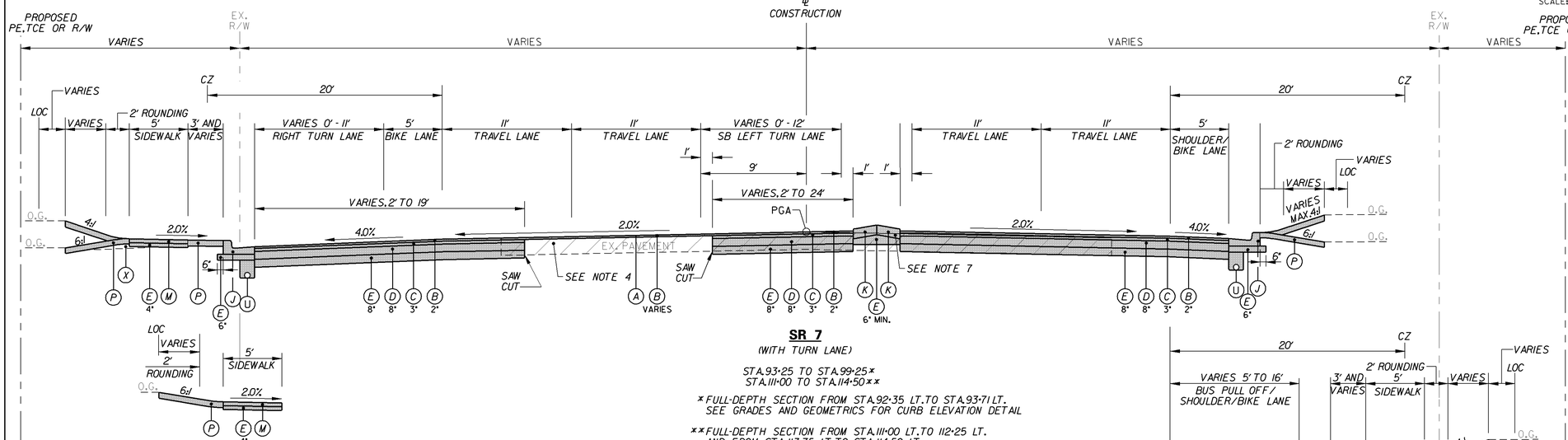
SCALE: NONE

CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
T2003126.01	NEW CASTLE	SEE TITLE SHEET	5	115

SR 7, NEWTOWN ROAD TO SR 273

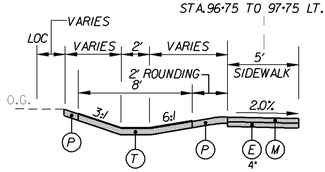
REVISIONS

⚠ MODIFIED LEGEND:	
TAO/MJV 01/20/12	



6:1 CUT SLOPE TYPICAL SECTION

STA. 96+75 TO 97+75 LT.

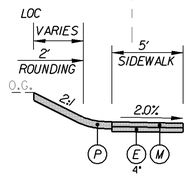


DITCH STABILIZATION TYPICAL SECTION

STA. 97+75 TO 98+75 LT.

2:1 CUT SLOPE TYPICAL SECTION

STA. 112+80 TO 112+90 LT.

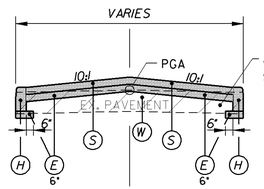


SR 7 (WITH TURN LANE)

STA. 93+25 TO STA. 99+25*
STA. 111+00 TO STA. 114+50**

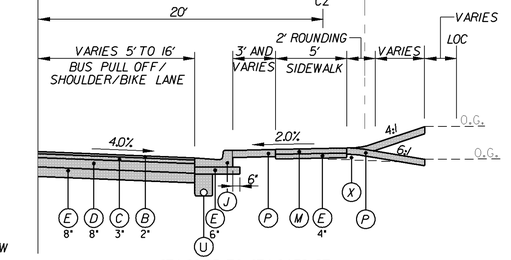
*FULL-DEPTH SECTION FROM STA. 92+35 LT. TO STA. 93+71 LT. SEE GRADES AND GEOMETRICS FOR CURB ELEVATION DETAIL

**FULL-DEPTH SECTION FROM STA. 111+00 LT. TO 112+25 LT. AND FROM STA. 113+75 LT. TO STA. 114+50 LT.

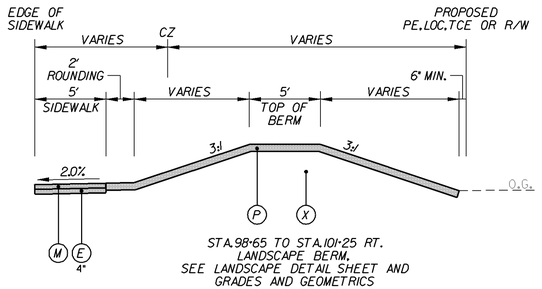


REMOVE EXISTING PAVEMENT TO EXISTING BASE MATERIAL AND BACKFILL WITH BORROW TYPE A AS DIRECTED BY ENGINEER.

STA. 81+22 TO STA. 82+48
STA. 97+75 TO STA. 99+25



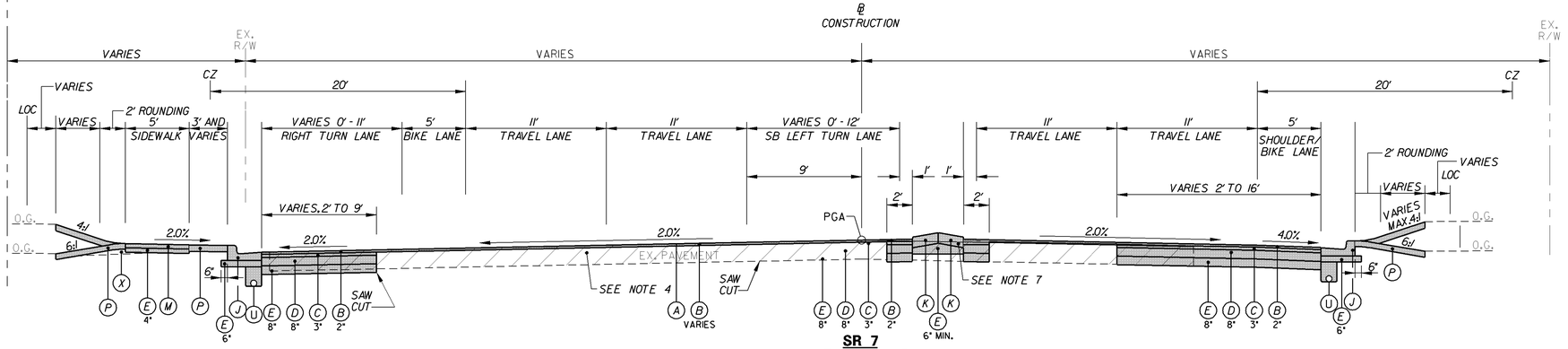
STA. 92+83 TO STA. 94+79 RT.
STA. 111+00 TO STA. 112+97 RT.



STA. 98+65 TO STA. 101+25 RT.
LANDSCAPE BERM.
SEE LANDSCAPE DETAIL SHEET AND GRADES AND GEOMETRICS

⚠ LEGEND

- (A) ITEM 760507 - PROFILE MILLING, HOT-MIX
- (B) ITEM 401830 - WMA, SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 70-22 (NON-CARBONATE STONE)
- (C) ITEM 401813 - WMA, SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 70-22
- (D) ITEM 401819 - WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE 160 GYRATIONS, PG 64-22
- (E) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (F) ITEM 401821 - WMA, SUPERPAVE, TYPE C HOT-MIX, 160 GYRATIONS, PG 64-22 PATCHING
- (G) ITEM 401822 - WMA, SUPERPAVE, TYPE B HOT-MIX, 160 GYRATIONS, PG 64-22 PATCHING
- (H) ITEM 701010 - PORTLAND CEMENT CONCRETE CURB, TYPE 1
- (J) ITEM 701020 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 1
- (K) ITEM 701011 - PORTLAND CEMENT CONCRETE CURB, TYPE 2
- (L) ITEM 701022 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3
- (M) ITEM 705001 - P.C.C. SIDEWALK, 4" DEPTH
- (N) ITEM 705002 - P.C.C. SIDEWALK, 6" DEPTH
- (P) ITEM 732002 - TOPSOIL, 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
- (R) ITEM 602615 - MODULAR BLOCK RETAINING WALL
- (S) ITEM 705519 - PATTERNED PORTLAND CEMENT CONCRETE SIDEWALK 6"
- (T) DITCH STABILIZATION
  ITEM 732002 - TOPSOIL, 6" DEPTH OR
  ITEM 733002 - TOPSOILING, 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
  ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5
- (U) ITEM 715001 - PERFORATED PIPE UNDERDRAIN, 6"
- (V) ITEM 701027 - PORTLAND CEMENT CONCRETE CURB, TYPE 1, MODIFIED
- (W) ITEM 209001 - BORROW, TYPE A
- (X) ⚠ ~~ITEM 209006 - BORROW, TYPE F~~ SUITABLE EXCAVATED MATERIAL MEETING REQUIREMENTS OF BORROW, TYPE F



SR 7 (WITH TURN LANE)

STA. 80+25 TO STA. 83+00**

**SEE GRADES AND GEOMETRICS SHEETS FOR CURB ELEVATION DETAIL

NOTES:

1. THE PGA IS APPLIED TO THE TOP OF THE FINAL PAVEMENT SURFACE. IN AREAS WHERE THE PGA IS LOCATED WITHIN THE RAISED MEDIAN, ITS VERTICAL LOCATION SHALL BE THE TOP OF ADJACENT PAVEMENT ELEVATION PROJECTED AT THE PROPOSED CROSS SLOPE TO THE CONSTRUCTION BASELINE.
2. THE MAXIMUM LIFTS FOR THE INDIVIDUAL PAVING MATERIALS ARE AS FOLLOWS:
   SUPERPAVE, TYPE C HOT-MIX - 2"
   SUPERPAVE, TYPE B HOT-MIX - 3"
   SUPERPAVE BIT. CONC. BASE COURSE - 4"
   GRADED AGGREGATE BASE COURSE - 8"
3. SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE SHALL BE PLACED IN TWO EQUAL LIFTS.
4. EXISTING MAINLINE PAVEMENT IS VARIABLE-DEPTH HOT-MIX OVER 7" TO 7½" REINFORCED CONCRETE PAVEMENT. SEE CORE SUMMARY ON PLANS FOR HOT-MIX THICKNESS. BASED ON EXISTING PLAN INFORMATION AND PAVEMENT CORE DATA, EXISTING P.C.C. PAVEMENT EXTENDS APPROXIMATELY 8' TO THE EAST AND 12' TO THE WEST OF THE EXISTING CENTERLINE ON AVERAGE.
5. THE MILL AND OVERLAY REPRESENTS THE LIMIT OF WHERE PROFILE MILLING IS REQUIRED. AT A MINIMUM, THE CONTRACTOR IS REQUIRED TO PROFILE MILL 2" BELOW THE EXISTING GRADE AND PLACE A MINIMUM OF 2" OF TYPE C HOT MIX. WHEN THE PROPOSED GRADE IS MORE THAN 2" HIGHER THAN THE EXISTING GRADE, TYPE B HOT MIX SHALL BE USED UNDER THE TYPE C HOT MIX TO MAKE UP THE GRADE DIFFERENCE.
6. HORIZONTAL CLEARANCE IS 2' BEHIND FACE OF CURB UNLESS OTHERWISE NOTED ON THE PLANS.
7. SEE CONSTRUCTION DETAILS FOR TYPE 2 CURB MODIFICATIONS AT LOCATIONS IN MEDIAN WHERE TYPE 2 CURB IS BACK TO BACK.

PREL. TRACING — S.JB — DESIGN — KGM-A — CHK'D. — JRR

CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
T2003126O1	NEW CASTLE	SEE TITLE SHEET	6	115

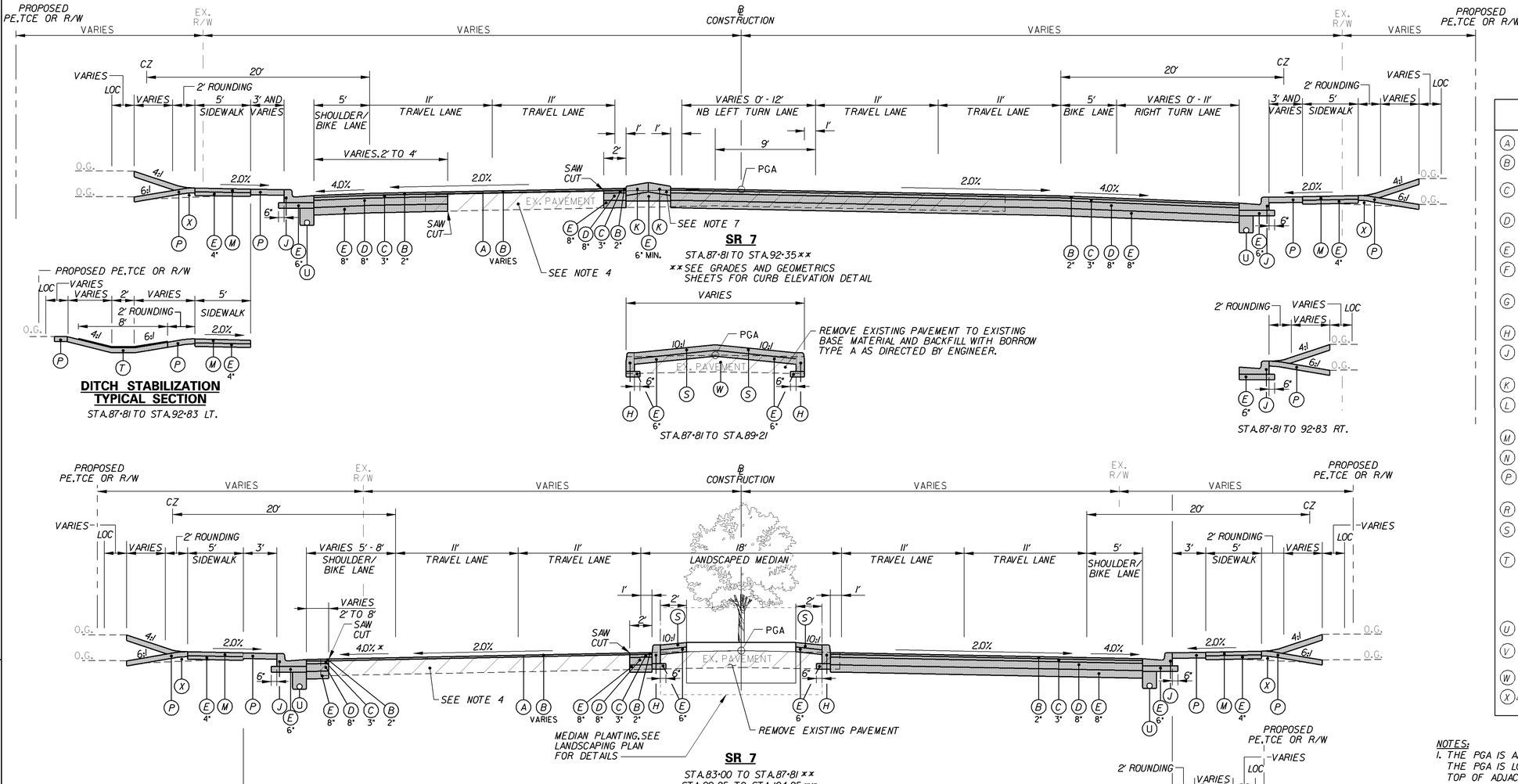
SR 7, NEWTOWN ROAD TO SR 273

REVISIONS

⚠ MODIFIED LEGEND:	
TAO/MJV 01/20/12	

TYPICAL SECTIONS

SCALE: NONE



⚠ LEGEND

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  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
- (R) ITEM 602615 - MODULAR BLOCK RETAINING WALL
- (S) ITEM 705519 - PATTERNED PORTLAND CEMENT CONCRETE SIDEWALK 6"
- (T) DITCH STABILIZATION
  ITEM 732002 - TOPSOIL, 6" DEPTH OR
  ITEM 733002 - TOPSOILING, 6" DEPTH
  ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
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- (U) ITEM 715001 - PERFORATED PIPE UNDERDRAIN, 6"
- (V) ITEM 701027 - PORTLAND CEMENT CONCRETE CURB, TYPE 1, MODIFIED
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- (X) ⚠ ~~ITEM 209006 - BORROW, TYPE F~~ SUITABLE EXCAVATED MATERIAL MEETING REQUIREMENTS OF BORROW, TYPE F

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6. HORIZONTAL CLEARANCE IS 2' BEHIND FACE OF CURB UNLESS OTHERWISE NOTED ON THE PLANS.
7. SEE CONSTRUCTION DETAILS FOR TYPE 2 CURB MODIFICATIONS AT LOCATIONS IN MEDIAN WHERE TYPE 2 CURB IS BACK TO BACK.

PREL. TRACING S.JB DESIGN KGM-A CHK'D. JRR

1/20/2012

MA3113I-04Ns02sr7.plt

CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
T200312601	NEW CASTLE	SEE TITLE SHEET	14	115

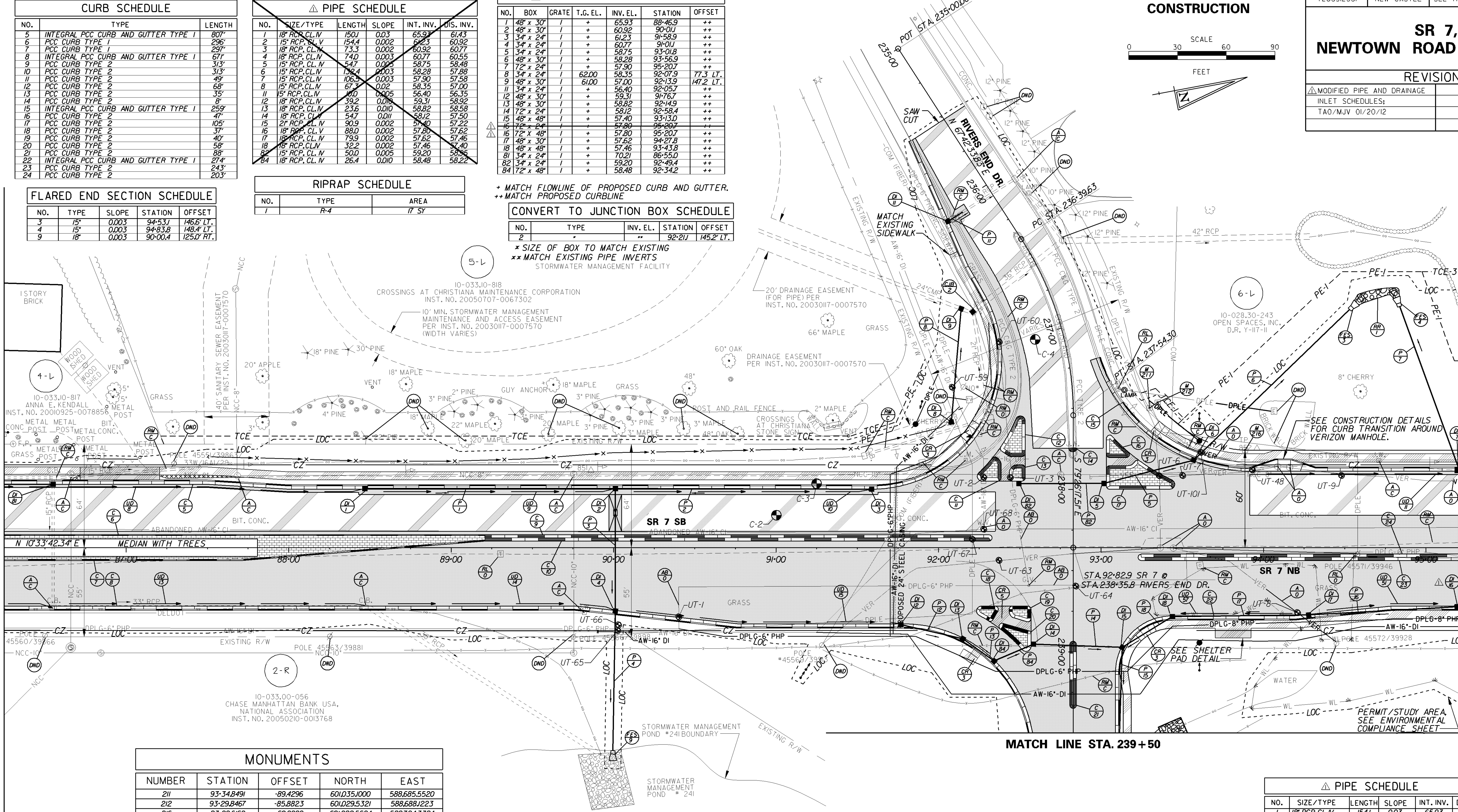
SR 7, NEWTOWN ROAD TO SR 273

REVISIONS

⚠ MODIFIED PIPE AND DRAINAGE INLET SCHEDULES; TAO/MJV 01/20/12

CONSTRUCTION

SCALE 0 30 60 90 FEET



CURB SCHEDULE

NO.	TYPE	LENGTH
5	INTEGRAL PCC CURB AND GUTTER TYPE 1	807'
6	PCC CURB TYPE 1	296'
7	PCC CURB TYPE 1	297'
8	INTEGRAL PCC CURB AND GUTTER TYPE 1	671'
9	PCC CURB TYPE 2	313'
10	PCC CURB TYPE 2	313'
11	PCC CURB TYPE 2	49'
12	PCC CURB TYPE 2	68'
13	PCC CURB TYPE 2	35'
14	PCC CURB TYPE 2	8'
15	INTEGRAL PCC CURB AND GUTTER TYPE 1	259'
16	PCC CURB TYPE 2	47'
17	PCC CURB TYPE 2	105'
18	PCC CURB TYPE 2	37'
19	PCC CURB TYPE 2	40'
20	PCC CURB TYPE 2	58'
21	PCC CURB TYPE 2	88'
22	INTEGRAL PCC CURB AND GUTTER TYPE 1	274'
23	PCC CURB TYPE 2	243'
24	PCC CURB TYPE 2	203'

⚠ PIPE SCHEDULE

NO.	SIZE/TYPE	LENGTH	SLOPE	INT. INV.	DIS. INV.
1	18" RCP.CL.IV	150.1	0.03	65.93	61.43
2	15" RCP, CL. V	154.4	0.002	61.23	60.92
3	18" RCP, CL.IV	73.3	0.002	60.92	60.77
4	18" RCP, CL.IV	74.0	0.003	60.77	60.55
5	15" RCP, CL. IV	54.7	0.005	58.75	58.48
6	15" RCP.CL.IV	132.4	0.003	58.28	57.88
7	15" RCP.CL.IV	106.5	0.003	57.90	57.58
8	15" RCP.CL.IV	67.3	0.02	58.35	57.00
11	15" RCP.CL.IV	10.0	0.005	56.40	56.35
12	18" RCP.CL.IV	39.2	0.010	59.31	58.92
13	18" RCP, CL.IV	23.6	0.010	58.82	58.58
14	18" RCP, CL.V	54.7	0.011	58.12	57.50
15	21" RCP, CL. IV	90.9	0.002	57.40	57.22
16	18" RCP, CL. V	88.0	0.002	57.80	57.62
17	18" RCP, CL. IV	79.9	0.002	57.62	57.46
18	18" RCP.CL.IV	32.2	0.002	57.46	57.40
82	15" RCP, CL. IV	50.0	0.005	59.20	58.95
84	18" RCP, CL. IV	26.4	0.010	58.48	58.22

⚠ DRAINAGE INLET SCHEDULE

NO.	BOX	GRATE	T.G. EL.	INV. EL.	STATION	OFFSET
1	48" x 30"	1	+	65.93	88+46.9	++
2	48" x 30"	1	+	60.92	90+01.1	++
3	34" x 24"	1	+	61.23	91+58.9	++
4	34" x 24"	1	+	60.77	91+01.1	++
5	34" x 24"	1	+	58.75	93+01.8	++
6	48" x 30"	1	+	58.28	93+56.9	++
7	72" x 24"	1	+	57.90	95+20.7	++
8	34" x 24"	1	62.00	58.35	92+07.9	77.3 LT.
9	48" x 30"	1	61.00	57.00	92+13.9	147.2 LT.
11	34" x 24"	1	+	56.40	92+05.7	++
12	48" x 30"	1	+	59.31	91+76.7	++
13	48" x 30"	1	+	58.82	92+14.9	++
14	72" x 24"	1	+	58.12	92+58.4	++
15	48" x 48"	1	+	57.40	93+13.0	++
⚠ 16	72" x 24"	1	+	57.80	95+20.7	++
⚠ 16	72" X 48"	1	+	57.80	95+20.7	++
17	48" x 30"	1	+	57.62	94+27.8	++
18	48" x 48"	1	+	57.46	93+43.8	++
81	34" x 24"	1	+	70.21	86+55.0	++
82	34" x 24"	1	+	59.20	92+49.4	++
84	72" x 48"	1	+	58.48	92+34.2	++

+ MATCH FLOWLINE OF PROPOSED CURB AND GUTTER.
++ MATCH PROPOSED CURBLINE

FLARED END SECTION SCHEDULE

NO.	TYPE	SLOPE	STATION	OFFSET
3	15"	0.003	94+53.1	146.6' LT.
4	15"	0.003	94+83.8	148.4' LT.
9	18"	0.003	90+00.4	125.0' RT.

RIPRAP SCHEDULE

NO.	TYPE	AREA
1	R-4	17 SY

CONVERT TO JUNCTION BOX SCHEDULE

NO.	TYPE	INV. EL.	STATION	OFFSET
2	*	**	92+21.1	145.2' LT.

* SIZE OF BOX TO MATCH EXISTING
** MATCH EXISTING PIPE INVERTS

MONUMENTS

NUMBER	STATION	OFFSET	NORTH	EAST
211	93+34.8491	-89.4296	601,035.1000	588,685.5520
212	93+29.8467	-85.8823	601,029.5321	588,688.1223
216	93+88.6168	-60.0000	601,082.5624	588,724.3384

UTILITY TEST HOLES

NO.	UTILITY	STATION	OFFSET	GR. EL.	COVER	O.D. & MATERIAL
UT-1	DPLG	90+40.1	42.6' RT	65.9	3.78'	6 1/2" PLASTIC GAS LINE
UT-2	AW	92+27.7	43.4' LT	64.1	4.20'	24" STEEL CASING PIPE.FOR 16" DJ.WATER LINE
UT-3	DPLG	92+44.2	43.2' LT	64.0	8.77'	12 1/2" STEEL CASING PIPE FOR 6" PLASTIC GAS LINE
UT-6	VER	93+35.8	44.3' LT	63.11	5.95'	2.0' +/- WIDE RPC MASS,(3) 4 1/2 PLASTIC TELE.CONDUITS
UT-7	VER	93+50.2	44.4' LT	63.1	3.74'	(15) 4 1/2" PLASTIC TELE.CONDUITS
UT-8	VER	94+20.9	40.0' RT	61.9	4.60'	(1) 4 1/2" PLASTIC TELE.CONDUITS
UT-9	VER	94+48.0	44.5' LT	62.4	4.98'	(12) 4 1/2" PLASTIC TELE.CONDUITS
UT-48	VER	93+93.1	47.9' LT	62.7	4.28'	(12) 4 1/2" PLASTIC TELE.CONDUITS
UT-59	AW	92+08.4	98.8' LT	63.4	4.56'	17 1/2" METALLIC WATER LINE
UT-60	DPLG	92+37.4	126.7' LT	61.7	3.60'	6 1/2" PLAS.GAS LINE,(3)2" ELEC.CABLES,1 1/4" UNK.FUNC.CABLE
UT-63	VER	92+37.2	7.8' RT	63.8	4.72'	(2) 4 1/2" AND (4) 2 1/4" PLASTIC TELE.CONDUITS
UT-64	DPLG	92+84.5	23.6' RT	62.5	4.60'	8 3/4" PLASTIC GAS LINE
UT-65	DPLG	90+02.5	51.1' RT	66.7	4.56'	6 1/2" PLASTIC GAS LINE
UT-66	AW	90+03.0	47.5' RT	66.5	4.04'	17" DJ.WATER LINE
UT-67	DPLE	92+20.8	5.2' LT	63.8	6.35'	4 1/2" PLASTIC ELECTRIC CONDUIT
UT-68	AW	92+27.8	11.4' LT	64.2	4.10'	17" x 13" CI WATER MECHANICAL TEE
UT-101	VER	93+61.5	58.7' LT	63.3	5.29'	(4) 4 1/2" PLASTIC TELE.CONDUITS

UNDERDRAIN SCHEDULE

NO.	SIZE/TYPE	DIS. INV.	LENGTH
8	6" PEP	#	193'
9	6" PEP	#	153'
10	6" PEP	#	157'
11	6" PEP	#	129'
13	6" PEP	#	192'
14	6" PEP	#	151'
15	6" PEP	#	174'
51	6" PEP	#	93'
57	6" PEP	#	84'

TO BE SET IN FIELD BY THE CONTRACTOR. SEE UNDERDRAIN DETAIL.

ROADWAY CORE SUMMARY

C NO.	STA.	OFFSET	DESCRIPTION
2	91+00	20' LT.	4 1/2" HOT-MIX ASPHALT ON 7 1/2" PCC PAVEMENT ON SELECT
3	91+25	39' LT.	5 1/2" HOT-MIX ASPHALT ON SELECT
4	92+60	128' LT.	10" HOT-MIX ASPHALT ON CRUSHER RUN

⚠ PIPE SCHEDULE

NO.	SIZE/TYPE	LENGTH	SLOPE	INT. INV.	DIS. INV.
1	18" RCP.CL.IV	154.1	0.03	65.93	61.43
2	15" RCP, CL. V	154.4	0.002	61.23	60.92
3	18" RCP, CL.IV	75.5	0.002	60.92	60.77
4	18" RCP, CL.IV	86.0	0.003	60.77	60.55
5	15" RCP, CL. IV	57.0	0.005	58.75	58.48
6	15" RCP.CL.IV	133.6	0.003	58.28	57.88
7	15" RCP.CL.IV	107.5	0.003	57.90	57.58
8	15" RCP.CL.IV	70.1	0.02	58.35	57.00
11	15" RCP.CL.IV	11.0	0.005	56.40	56.35
12	18" RCP.CL.IV	39.2	0.010	59.31	58.92
13	18" RCP, CL.IV	23.6	0.010	58.82	58.58
14	18" RCP, CL.V	54.7	0.011	58.12	57.50
15	21" RCP, CL. IV	95.0	0.002	57.40	57.22
16	18" RCP, CL. V	93.0	0.002	57.80	57.62
17	18" RCP, CL. IV	84.0	0.002	57.62	57.46
18	18" RCP.CL.IV	36.2	0.002	57.46	57.40
82	15" RCP, CL. IV	52.4	0.005	59.20	58.95
84	18" RCP, CL. IV	26.4	0.010	58.48	58.22

PREL. TRACING SJB DESIGN KGM-A CHKD. JRR

CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
T200312601	NEW CASTLE	SEE TITLE SHEET	15	115

SR 7, NEWTOWN ROAD TO SR 273

CONSTRUCTION

SCALE 0 30 60 90 FEET

REVISIONS

⚠ MODIFIED PIPE SCHEDULE	
TAO/MJV 01/20/12	

⚠ PIPE SCHEDULE

NO.	SIZE/TYPE	LENGTH	SLOPE	INT. INV.	DIS. INV.
20	36" RCP,CL.V	130.2	0.003	56.39	56.00
21	18" RCP,CL.V	101.0	0.003	57.88	57.58
⚠ ~~22~~	~~15" RCP,CL.IV~~	~~69.7~~	~~0.008~~	~~58.33~~	~~57.78~~
⚠ 22	15" RCP,CL.IV	73.2	0.008	58.33	57.78
23	18" RCP,CL.IV	5.5	0.005	57.58	57.55
24	18" RCP,CL.IV	243.1	0.005	59.05	57.84
25	18" RCP,CL.IV	240.3	0.02	64.06	59.25
26	18" RCP,CL.IV	136.4	0.01	59.37	58.00
27	18" RCP,CL.IV	249.9	0.013	62.82	59.57
⚠ ~~28~~	~~15" RCP,CL.IV~~	~~15.0~~	~~0.003~~	~~59.41~~	~~59.37~~
⚠ 28	15" RCP,CL.IV	14.6	0.003	59.41	59.37
29	18" RCP,CL.IV	212.2	0.015	66.20	63.02
30	18" RCP,CL.IV	100.3	0.002	57.80	57.60
31	24" RCP,CL.IV	73.3	0.002	57.55	57.40
32	24" RCP,CL.IV	30.7	0.005	57.40	57.22
33	36" RCP,CL.IV	113.4	0.002	56.47	56.24
34	36" RCP,CL.V	44.6	0.002	56.24	56.15
⚠ ~~83~~	~~15" RCP,CL.IV~~	~~32.4~~	~~0.003~~	~~59.51~~	~~59.41~~
⚠ 83	15" RCP,CL.IV	34.8	0.003	59.51	59.41
106	36" RCP,CL.V	75.7	0.002	56.15	56.00

CURB SCHEDULE

NO.	TYPE	LENGTH
25	INTEGRAL PCC CURB AND GUTTER TYPE 1	899'
26	PCC CURB TYPE 2	250'
27	PCC CURB TYPE 1	651'
28	PCC CURB TYPE 2	250'
29	PCC CURB TYPE 1	651'
30	INTEGRAL PCC CURB AND GUTTER TYPE 1	380'
31	INTEGRAL PCC CURB AND GUTTER TYPE 1	644'

RIPRAP SCHEDULE

NO.	TYPE	AREA
2	R-4	36 SY
9	R-4	31 SY
10	R-4	23 SY

JUNCTION BOX SCHEDULE

NO.	BOX	INV. EL.	STATION	OFFSET
10	48" x 48	56.15	95+52.9	1.9' LT.

DRAINAGE INLET SCHEDULE

NO.	BOX	GRATE	T.G. EL.	INV. EL.	STATION	OFFSET
20	72" x 48"	1	62.13	56.39	95+42.9	50.5' RT.
21	48" x 30"	1	+	57.88	96+00.0	++
22	48" x 30"	1	+	57.58	97+05.0	++
23	34" x 24"	1	62.38	58.33	97+75.0	68.6' LT.
24	48" x 30"	1	+	59.05	99+52.0	++
25	48" x 30"	1	+	64.06	101+96.9	++
26	66" x 30"	1	+	57.40	97+05.0	++
27	48" x 30"	1	+	59.37	98+46.1	++
28	48" x 30"	1		62.82	101+00.0	++
29	48" x 30"	1		66.20	103+15.2	++
30	34" x 24"	1	64.00	59.41	98+49.1	52.9' RT.
31	48" x 30"	1	+	57.80	96+00.0	++
83	34" x 24"	1	+	59.51	98+15.2	++

+ MATCH FLOWLINE OF PROPOSED CURB AND GUTTER.
++ MATCH PROPOSED CURBLINE

UNDERDRAIN SCHEDULE

NO.	SIZE/TYPE	DIS. INV.	LENGTH
17	6" PEP	#	79'
18	6" PEP	#	104'
19	6" PEP	#	247'
20	6" PEP	#	291'
22	6" PEP	#	79'
23	6" PEP	#	104'
24	6" PEP	#	244'
25	6" PEP	#	215'
26	6" PEP	#	259'
53	6" PEP	#	114'
54	6" PEP	#	242'

TO BE SET IN FIELD BY THE CONTRACTOR. SEE UNDERDRAIN DETAIL.

MANHOLE SCHEDULE

NO.	TYPE	TOP EL.	INV. EL.	STATION	OFFSET
7	48"x30"	+++	57.55	97+05.0	39.4' LT.
8	66"x30"	+++	56.24	95+52.9	41.8' RT.

+++ MATCH PROPOSED ROADWAY AND SIDEWALK GRADE.

FLARED END SECTION SCHEDULE

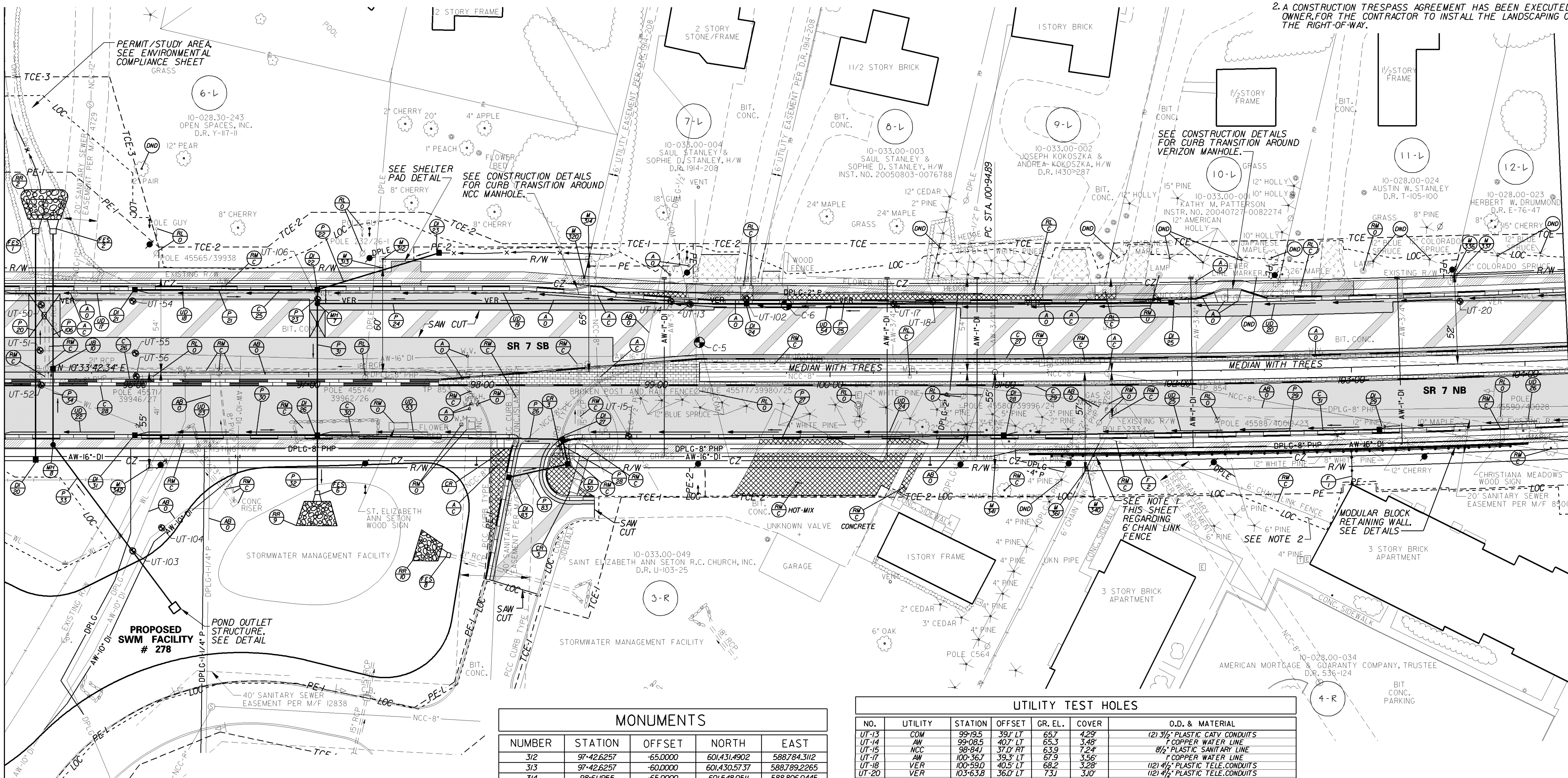
NO.	TYPE	SLOPE	STATION	OFFSET
1	36"	0.003	95.42.9	79.7' LT.
2	36"	0.002	95+50.9	79.7' LT.
6	24"	0.005	97+5.0	76.0' RT.
8	21"	-	97+73.7	103.4' RT.

FENCE SCHEDULE

NO.	QTY.	UNIT	DESCRIPTION	NOTES
1	20	LF	CHAIN-LINK FENCE,6 FT.HIGH (ITEM 727004)	BEG. STA. 102+99, 48' RT. +/- END STA. 102+99, 68' RT. +/-
2	263	LF	DECORATIVE FENCE,6 FT.HIGHT (ITEM 727522)	BEG. STA. 101+28, 49' RT. +/- END STA. 103+90, 49' RT. +/-

NOTES:

1. THE EXISTING 6' HIGH CHAIN-LINK FENCE SHALL BE REMOVED BACK TO THE NEW DECORATIVE FENCE. THE INTENT IS TO TERMINATE THE EXISTING 6' HIGH CHAIN-LINK FENCE DIRECTLY BEHIND NEW DECORATIVE FENCE. SET NEW TERMINAL POST FOR 6' HIGH CHAIN LINK FENCE AS DIRECTED BY THE ENGINEER. ALL WORK REQUIRED TO REMOVE, ADJUST AND REPAIR EXISTING FENCE INCLUDING NEW TERMINAL POST AND POST FOUNDATION SHALL BE INCIDENTAL TO ITEM 211000 -REMOVAL OF STRUCTURES AND OBSTRUCTIONS.
2. A CONSTRUCTION TRESPASS AGREEMENT HAS BEEN EXECUTED, WITH THE OWNER, FOR THE CONTRACTOR TO INSTALL THE LANDSCAPING OUTSIDE OF THE RIGHT-OF-WAY.



MONUMENTS

NUMBER	STATION	OFFSET	NORTH	EAST
312	97+42.6257	-65.0000	601,431.4902	588,784.3112
313	97+42.6257	-60.0000	601,430.5737	588,789.2265
314	98+61.1955	-65.0000	601,548.0511	588,806.0445
320	98+58.6277	-53.9385	601,543.4994	588,816.4480
336	103+61.2365	-52.0000	602,036.2477	588,905.6041
337	103+60.6008	-49.6226	602,035.2692	588,907.8610
340	101+47.5788	55.0000	601,807.9932	588,976.3938
341	100+94.8873	55.0000	601,755.7883	588,966.8461
342	96+08.2202	55.0000	601,277.3664	588,877.6423
361	101+46.5754	57.0000	601,806.6451	588,978.1839

UTILITY TEST HOLES

NO.	UTILITY	STATION	OFFSET	GR. EL.	COVER	O.D. & MATERIAL
UT-13	COM	99+19.5	39.1' LT	65.7	4.29'	(2) 3 1/2" PLASTIC CATV CONDUITS
UT-14	AW	99+08.5	40.7' LT	65.3	3.48'	1" COPPER WATER LINE
UT-15	NCC	98+84.1	37.0' RT	63.9	7.24'	8 1/2" PLASTIC SANITARY LINE
UT-17	AW	100+36.7	39.3' LT	67.9	3.56'	1" COPPER WATER LINE
UT-18	VER	100+59.0	40.5' LT	68.2	3.28'	(12) 4 1/2" PLASTIC TELE.CONDUITS
UT-20	VER	103+63.8	36.0' LT	73.1	3.10'	(12) 4 1/2" PLASTIC TELE.CONDUITS
UT-50	VER	95+46.2	38.7' LT	62.2	5.37'	(3) 4 1/2" PLASTIC TELE.CONDUITS
UT-51	AW	95+45.5	12.5' LT	62.2	5.88'	17" C.I.WATER LINE
UT-52	DPLG	95+46.1	7.4' RT	59.2	4.72'	8 3/4" PLASTIC GAS LINE
UT-54	VER	96+00.0	40.9' RT	62.1	3.60'	(12) 4 1/2" PLASTIC TELE.CONDUITS
UT-55	AW	96+00.0	10.9' LT	61.9	4.20'	17" C.I.WATER LINE
UT-56	DPLG	96+00.8	2.5' RT	61.2	3.76'	8 3/4" PLASTIC GAS LINE
UT-102	VER	99+51.6	42.2' LT	65.7	3.28'	(12) 4 1/2" PLASTIC TELE.CONDUITS
UT-103	DPLG	95+98.8	102.9' RT	63.9	5.43'	1 1/2" PLASTIC GAS LINE
UT-104	AW	96+15.4	89.6' RT	64.1	4.14'	10" D.I.WATER LINE
UT-106	VER	97+05.0	41.9' LT	62.3	2.86'	(12) 4 1/2" PLASTIC TELE.CONDUITS

ROADWAY CORE SUMMARY

C NO.	STA.	OFFSET	DESCRIPTION
5	99+25	18' RT.	4 1/2" HOT-MIX ASPHALT ON 7" PCC PAVEMENT ON SELECT
6	99+75	39' LT.	7" HOT-MIX ASPHALT ON SELECT

PREL. TRACING — SJB — DESIGN — KGM-A — CHKD. — JRR

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CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
T200312601	NEW CASTLE	SEE TITLE SHEET	17	115

SR 7, NEWTOWN ROAD TO SR 273

CONSTRUCTION

SCALE 0 30 60 90 FEET

REVISIONS	
⚠ MODIFIED PIPE SCHEDULE	
TAO/MJV 01/20/12	

CURB SCHEDULE

NO.	TYPE	LENGTH
49	INTEGRAL PCC CURB AND GUTTER TYPE 1	215′
50	PCC CURB TYPE 2	460′
51	PCC CURB TYPE 2	461′
52	INTEGRAL PCC CURB AND GUTTER TYPE 1	498′
53	PCC CURB TYPE 2	96′
54	INTEGRAL PCC CURB AND GUTTER TYPE 1	409′
55	PCC CURB TYPE 2	53′
56	PCC CURB TYPE 2	78′
57	PCC CURB TYPE 2	78′
58	INTEGRAL PCC CURB AND GUTTER TYPE 3	82′
59	INTEGRAL PCC CURB AND GUTTER TYPE 3	306′
60	PCC CURB TYPE 2	327′
61	PCC CURB TYPE 2	327′
62	INTEGRAL PCC CURB AND GUTTER TYPE 1	337′
63	PCC CURB TYPE 1	34′
64	PCC CURB TYPE 1, MODIFIED	206′
85	PCC CURB TYPE 1	109′
86	PCC CURB TYPE 2	53′
87	PCC CURB TYPE 2	67′
90	PCC CURB TYPE 2	51′

⚠ PIPE SCHEDULE

NO.	SIZE/TYPE	LENGTH	SLOPE	INT. INV.	DIS. INV.
~~43~~	~~18" RCP, CL.IV~~	~~93.3~~	~~0.04~~	~~48.15~~	~~44.42~~
44	15" RCP, CL.IV	41.5	0.03	46.90	45.66
~~45~~	~~18" RCP, CL.IV~~	~~96.1~~	~~0.042~~	~~44.22~~	~~40.19~~
46	15" RCP, CL.IV	22.8	0.005	40.12	40.01
47	21" RCP, CL.IV	94.0	0.02	39.56	37.68
48	30" RCP, CL.IV	73.4	0.01	35.93	35.20
49	15" RCP, CL.IV	12.1	0.005	36.25	36.31
50	30" RCP, CL.IV	111.3	0.008	35.00	34.11
51	24"x38" RCP, CL.IV	85.1	0.007	30.56	29.97
~~52~~	~~18" RCP, CL.IV~~	~~215.5~~	~~0.005~~	~~32.26~~	~~31.18~~
~~60~~	~~18" RCP, CL.IV~~	~~242.2~~	~~0.034~~	~~46.00~~	~~37.77~~
61	24" RCP, CL.V	84.4	0.005	37.05	36.63
62	24" RCP, CL.V	20.2	0.027	37.33	36.78
63	24" RCP, CL.V	30.6	0.002	36.78	36.72
66	36" RCP, CL.IV	11.4	0.005	29.97	29.91
~~67~~	~~18" RCP, CL.V~~	~~54.0~~	~~0.005~~	~~31.23~~	~~30.96~~
~~68~~	~~18" RCP, CL.IV~~	~~294.2~~	~~0.005~~	~~32.90~~	~~31.43~~
80	15" RCP, CL.IV	16.9	0.03	45.46	44.95
104	15" RCP, CL.IV	27.6	0.005	36.65	36.51

DRAINAGE INLET SCHEDULE

NO.	BOX	GRATE	T.G. EL.	INV. EL.	STATION	OFFSET
40	48" x 30"	I	+	48.15	114+21.9	++
41	34" x 24"	I	+	46.90	114+65.7	++
42	48" x 30"	I	+	39.56	116+20.4	++
43	34" x 24"	I	44.31	40.12	116+05.7	67.8′ LT.
44	48" x 48"	I	+	35.93	117+18.8	++
45	48" x 48"	I	+	35.00	117+96.63	++
46	48" x 30"	I	+	36.65	118+25.2	++
47	48" x 48"	I	+	31.33	119+12.2	++
48	72" x 48"	I	+	29.97	120+03.0	++
56	48" x 30"	I	+	46.00	114+75.0	++
57	48" x 30"	I	+	37.05	117+19.2	++
58	48" x 30"	I	+	36.78	117+63.0	++
59	72" x 24"	I	+	31.23	120+03.0	++
80	48" x 30"	I	+	45.46	115+09.8	++
103	48" x 30"	I	+	36.31	117+96.6	++

+ MATCH FLOWLINE OF PROPOSED CURB AND GUTTER.
++ MATCH PROPOSED CURBLINE.

FLARED END SECTION SCHEDULE

NO.	TYPE	SLOPE	STATION	OFFSET
11	24"	0.027	117+44.9	86.5′ RT.

UNDERDRAIN SCHEDULE

NO.	SIZE/TYPE	DIS. INV.	LENGTH
36	6" PEP	#	71′
37	6" PEP	#	97′
38	6" PEP	#	104′
39	6" PEP	#	92′
40	6" PEP	#	170′
42	6" PEP	#	245′
49	6" PEP	#	148′
56	6" PEP	#	118′

\# TO BE SET IN FIELD BY THE CONTRACTOR, SEE UNDERDRAIN DETAIL.

CONVERT TO MANHOLE

NO.	STATION	OFFSET	INV. EL.	TOP EL.
1	118+98.2	23.3′ LT.	**	++

** MATCH EXISTING PIPE INVERTS
++ TO BE SET IN FIELD BY ENGINEER

MANHOLE SCHEDULE

NO.	TYPE	TOP EL.	INV. EL.	STATION	OFFSET
10	48"x30"	*	44.22	115+19.2	48.2′ LT.
11	48"x30"	*	36.72	117+92.5	61.3′ RT.

* MATCH PROPOSED GRADE

RIPRAP SCHEDULE

NO.	TYPE	AREA
4	R-4	15 SY

ROADWAY CORE SUMMARY

C NO.	STA.	OFFSET	DESCRIPTION
7	117+25	10′ LT.	7 1/2" HOT-MIX ASPHALT ON SELECT
8	117+25	23′ RT.	7" HOT-MIX ASPHALT ON 7 1/4" PCC PAVEMENT ON SELECT
9	6+25	7′ LT.	12" HOT-MIX ASPHALT ON SELECT

NOTES:

1. PROPOSED IMPROVEMENTS (AND OUTFALL LOCATION) ON PARCELS 19-L AND 20-L WILL BE ADJUSTED AS NECESSARY FOLLOWING THE RECORD PLAN APPROVAL FOR THE CHRISTIANA SELF STORAGE MAJOR LAND DEVELOPMENT PLAN.
2. SEE PROJECT NOTES CONCERNING CONSTRUCTION ACTIVITY RESTRICTION ON PARCEL 5-R - 10-028.00-029, OLD FORT U.A.M.E. CHURCH.
3. A CONSTRUCTION TRESPASS AGREEMENT HAS BEEN EXECUTED, WITH THE OWNER, FOR THE CONTRACTOR TO INSTALL THE LANDSCAPING OUTSIDE OF THE RIGHT-OF-WAY.

MONUMENTS

NUMBER	STATION	OFFSET	NORTH	EAST
501	116+35.6932	-65.0000	603,292.7017	589,097.7923
503	116+34.7649	-61.4735	603,291.4226	589,101.2045
523	119+41.7726	-60.0000	603,594.1198	589,126.1174

⚠ PIPE SCHEDULE

NO.	SIZE/TYPE	LENGTH	SLOPE	INT. INV.	DIS. INV.
43	18" RCP, CL.IV	96.7	0.04	48.15	44.42
45	18" RCP, CL.IV	100.1	0.040	44.22	40.19
52	18" RCP, CL.IV	220.6	0.005	32.26	31.18
60	18" RCP, CL.IV	246.2	0.033	46.00	37.77
67	18" RCP, CL.V	57.0	0.005	31.23	30.96
68	18" RCP, CL.IV	298.2	0.005	32.90	31.43

MONUMENTS

NUMBER	STATION	OFFSET	NORTH	EAST
524	120+42.3494	-60.0000	603,693.5556	589,130.2665
525	120+53.3614	-60.0000	603,704.2753	589,130.5939
526	120+79.4780	-58.9418	603,729.6863	589,132.2232
531	121+81.6931	-52.0000	603,829.4643	589,138.6209
533	117+39.9126	102.6264	603,380.9255	589,274.5567
534	117+20.9033	67.0000	603,364.8170	589,237.3831
535	116+03.3749	67.0000	603,246.5020	589,225.5979
536	115+32.0778	63.0000	603,175.3411	589,213.2967
572	113+55.3369	-57.0000	603,016.6156	589,070.2220
573	113+55.3369	-65.0000	603,017.8334	589,062.3152
574	121+39.1927	56.7918	603,788.9310	589,248.1732
575	121+92.8662	56.8447	603,843.9184	589,247.0795
576	121+92.8662	62.0000	603,844.0860	589,252.2321
577	121+39.1927	62.0000	603,788.9789	589,253.3811

UTILITY TEST HOLES

NO.	UTILITY	STATION	OFFSET	GR. EL.	COVER	O.D. & MATERIAL
UT-31	DPLG	113+81.2	36.1′ LT	54.6	2.92′	2 1/2" PLASTIC GAS LINE
UT-32	DPLG	116+38.8	43.5′ RT	44.3	4.47′	8 3/4" PLASTIC GAS LINE
UT-33	DPLG	117+26.6	49.9′ RT	40.9	4.50′	8 3/4" PLASTIC GAS LINE, 4 1/2" PLASTIC DOT F/O CONDUIT
UT-34	NCC	117+29.3	47.4′ RT	41.2	4.29′	4 3/4" PLASTIC SANITARY FORCE MAIN
UT-36	AW	117+50.8	40.3′ RT	42.4	1.58′	
UT-37	DELDOT	117+49.9	83.6′ RT	40.3	3.47′	4 1/2" PLASTIC DOT CONDUIT
UT-38	AW	117+66.4	80.6′ RT	37.4	3.09′	12 3/4" D.I. WATER LINE
UT-39	DPLG	117+90.3	63.3′ RT	40.6	5.04′	8 3/4" PLASTIC GAS LINE
UT-40	AW	117+75.9	38.0′ RT	41.3	6.78′	17" D.I. WATER LINE WITH 24" STEEL CASING
UT-41	VER	117+80.3	4.0′ LT	41.8	4.20′	(12) 4 1/4" PLASTIC TELE. CONDUITS
UT-44	VER	120+18.1	3.8′ LT	41.3	3.98′	(9) 4 1/4" PLAS. TELE. CONDUITS, (2) 3/4" UNK. FUNC. CABLES
UT-45	AW	121+95.9	8.7′ RT	40.9	3.46′	1" COPPER WATER LINE
UT-61	DPLG	118+63.9	67.5′ RT	40.4	3.95′	8 1/2" PLASTIC GAS LINE
UT-62	DPLG	121+19.0	43.5′ RT	41.4	6.14′	8 3/4" PLASTIC GAS LINE WITH A 2 1/2" PLASTIC TAP
UT-109	DPLG	113+81.1	46.6′ LT	56.6	1.96′	2" PLASTIC GAS LINE
UT-110	DPLE	116+01.7	52.5′ LT	43.95	4.85′	2" RPC ELECTRIC DUCT

PREL. TRACING SJB DESIGN KGM-A CHKD. JRR

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CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
T200312601	NEW CASTLE	SEE TITLE SHEET	30	115

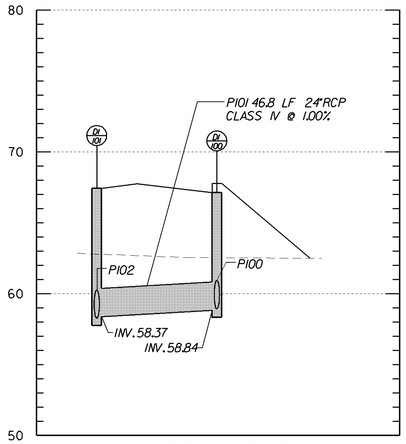
SR 7, NEWTOWN ROAD TO SR 273

REVISIONS	
⚠1 MODIFIED INLET IDENTIFIER;	
TAO/MJV 01/20/12	

PROFILES

SCALE
0 30 60 90
FEET

10
5
0
FEET



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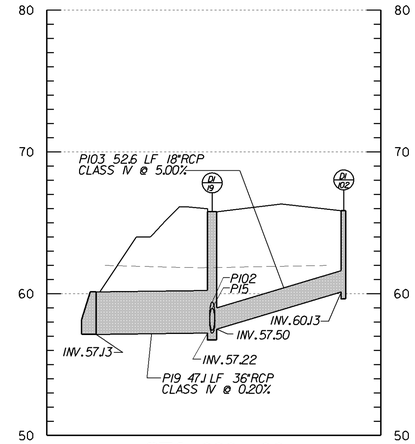
P101



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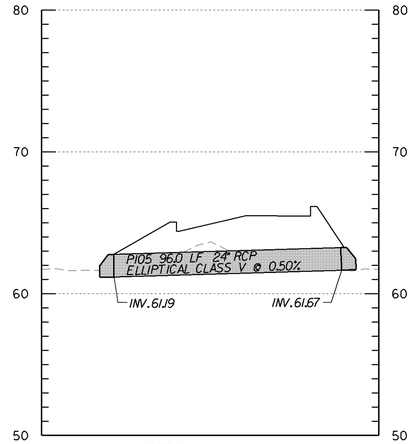

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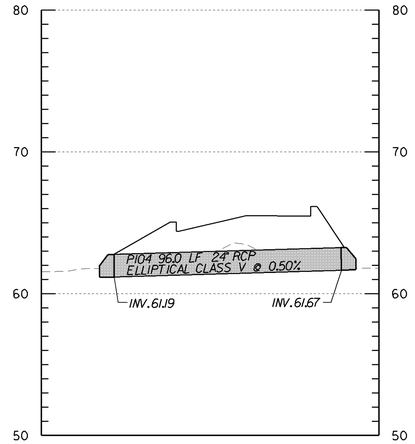

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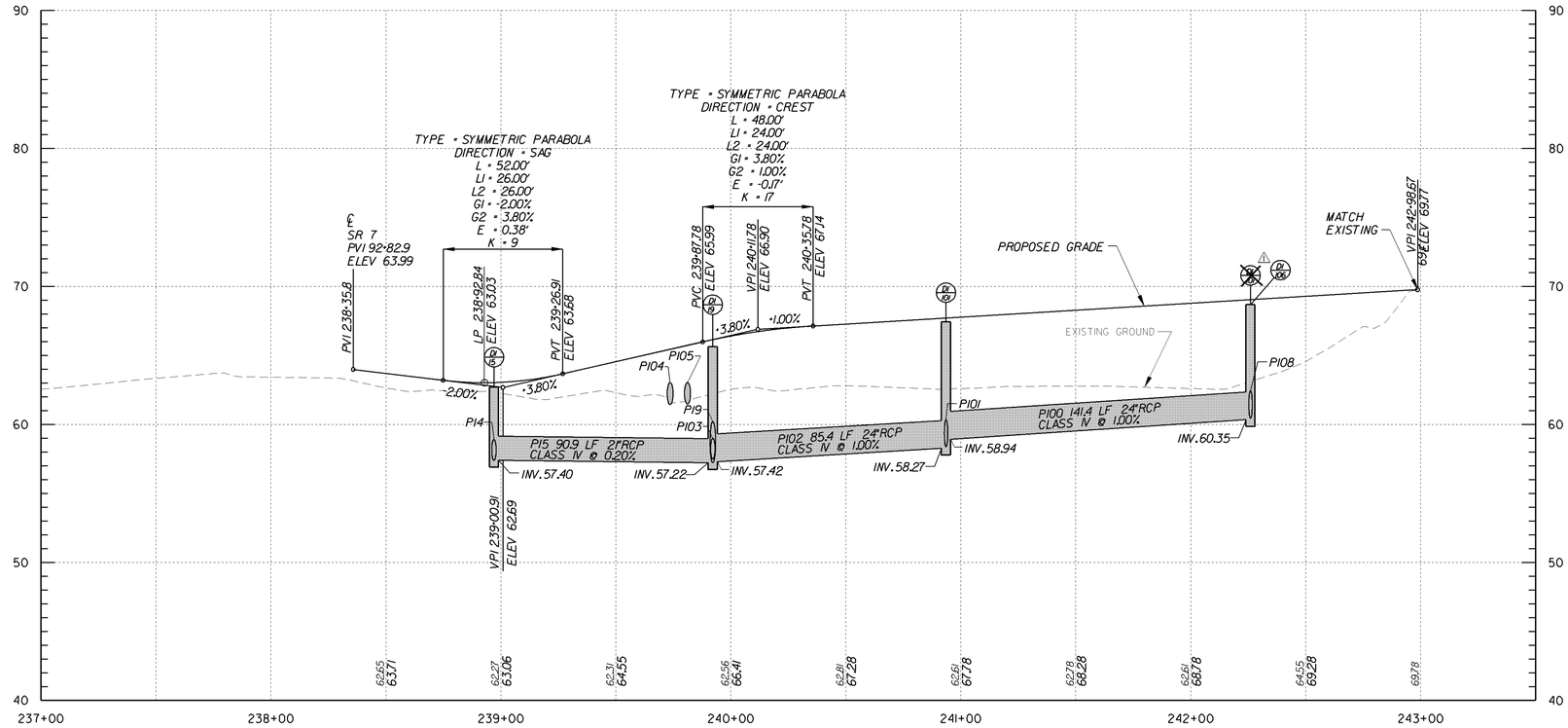

ENTRANCE ROAD

PREL. TRACING SJB DESIGN KGM-A CHKD. JRR

1/20/2012

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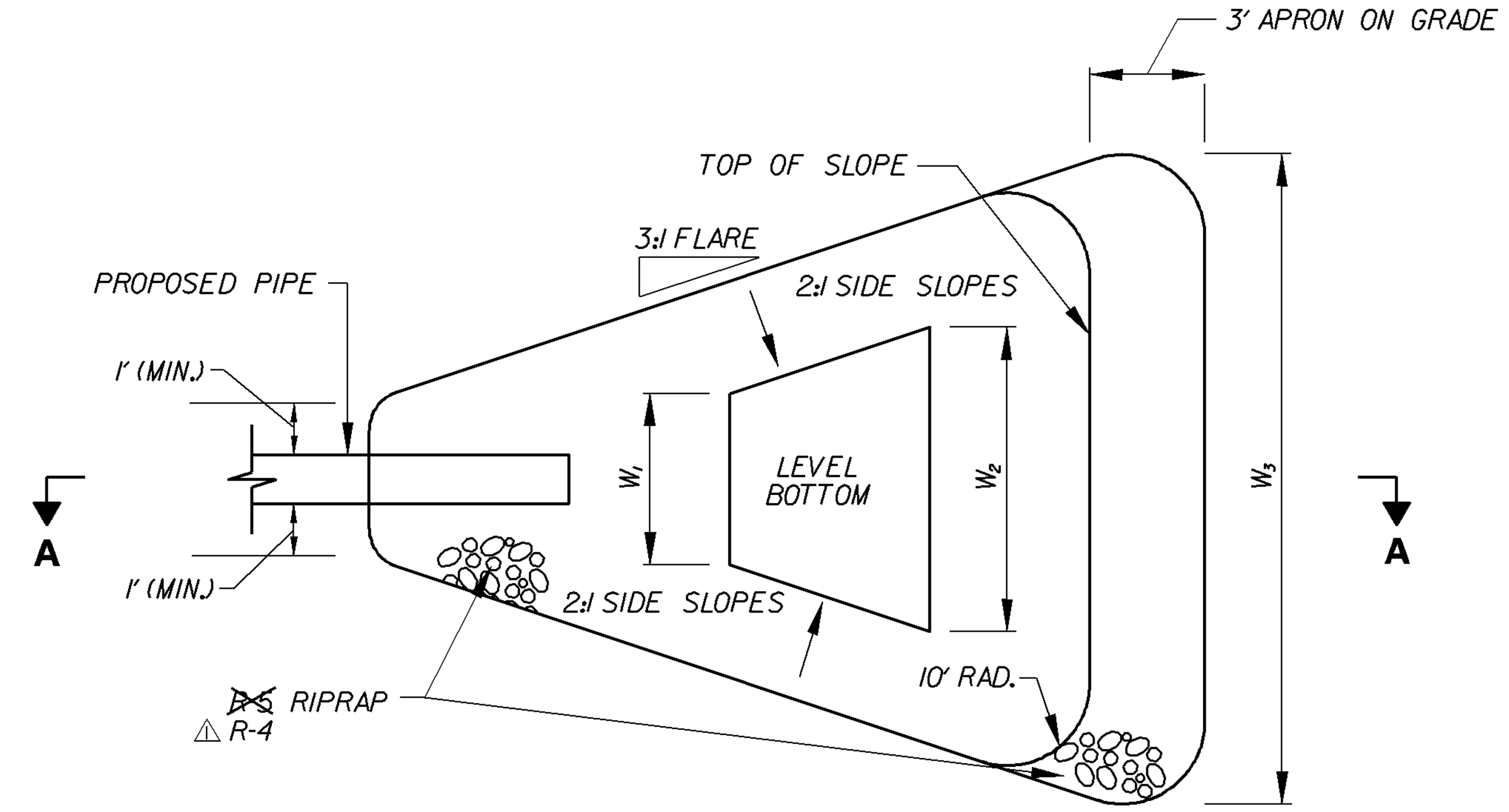
CONSTRUCTION DETAILS

SCALE
0 20 40 60
FEET

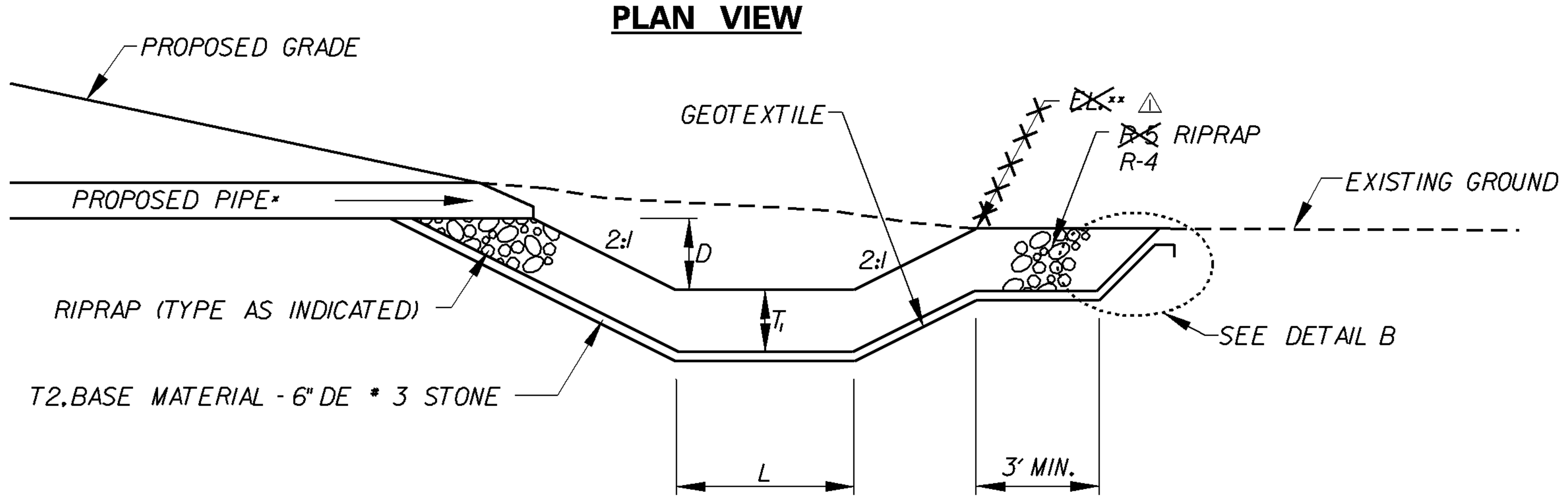
CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
T200312601	NEW CASTLE	SEE TITLE SHEET	49	115

SR 7, NEWTOWN ROAD TO SR 273

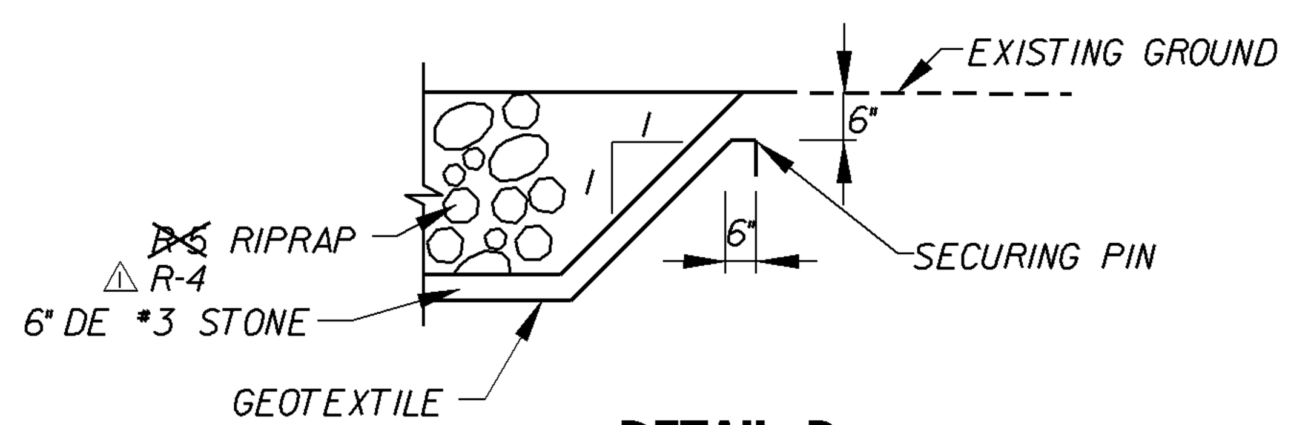
REVISIONS	
⚠ CHANGED RIPRAP FROM R-5 TO	
R-4 FOR PIPE DISSIPATOR;	
TAO/MJV 01/20/12	



PLAN VIEW



SECTION A–A



DETAIL B

PIPE ENERGY DISSIPATOR

SCALE: NONE

*PLACE RIPRAP BEFORE PLACING PIPE. CHOKE RIPRAP WITH NO.3 STONE UNDER PIPE.

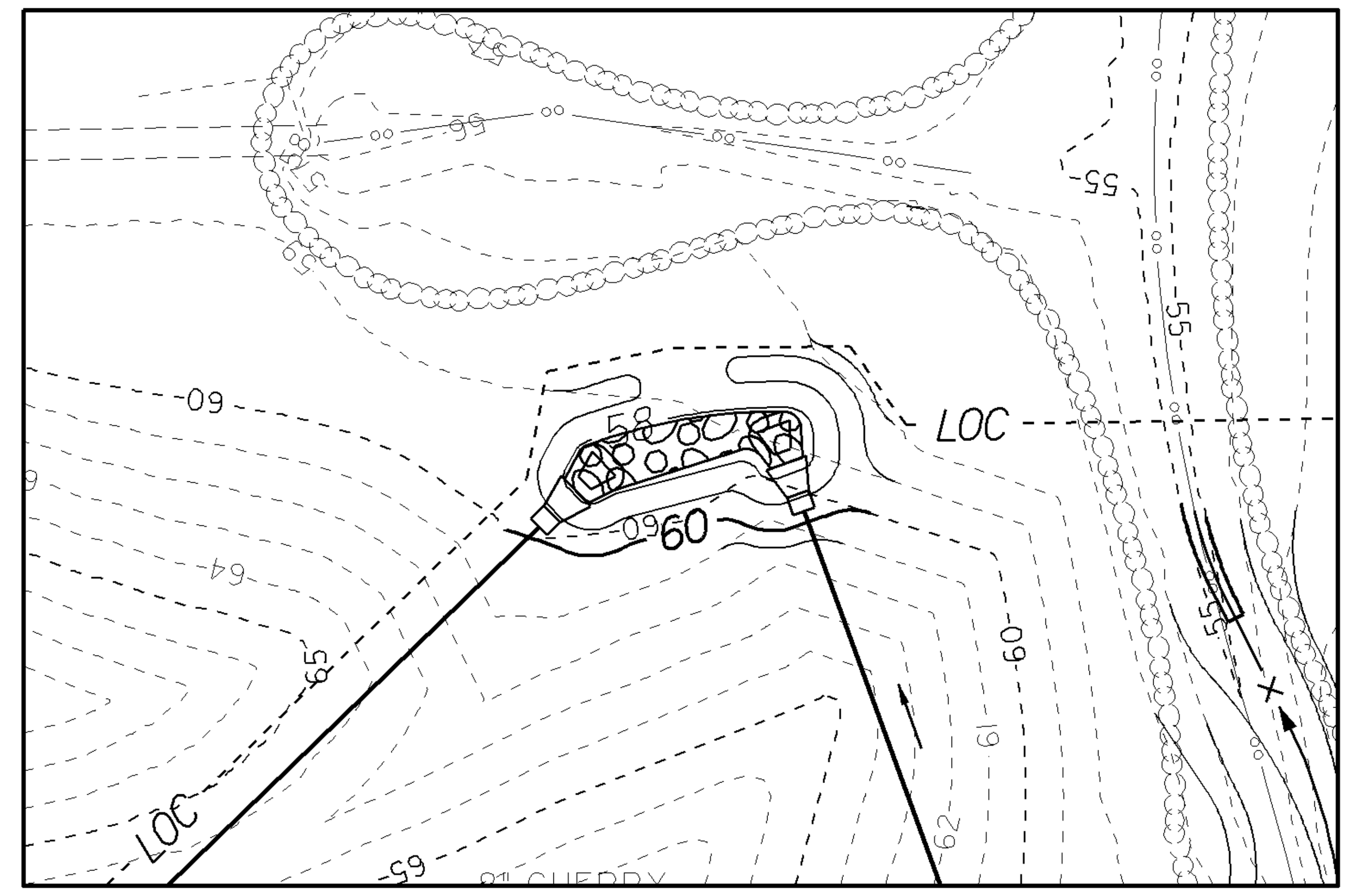
NOTES:

1. ALL MATERIALS, LABOR, AND INCIDENTALS NECESSARY TO COMPLETE ENERGY DISSIPATOR, EXCEPT FOR GEOTEXTILE RIPRAP - ITEM 713003, SHALL BE INCIDENTAL TO THE RESPECTIVE RIPRAP PAY ITEM.
2. RIPRAP SHALL BE PLACED NO HIGHER THAN TOP OF PIPE (SEE PLANS FOR PIPE SPECIFICATIONS).

⚠

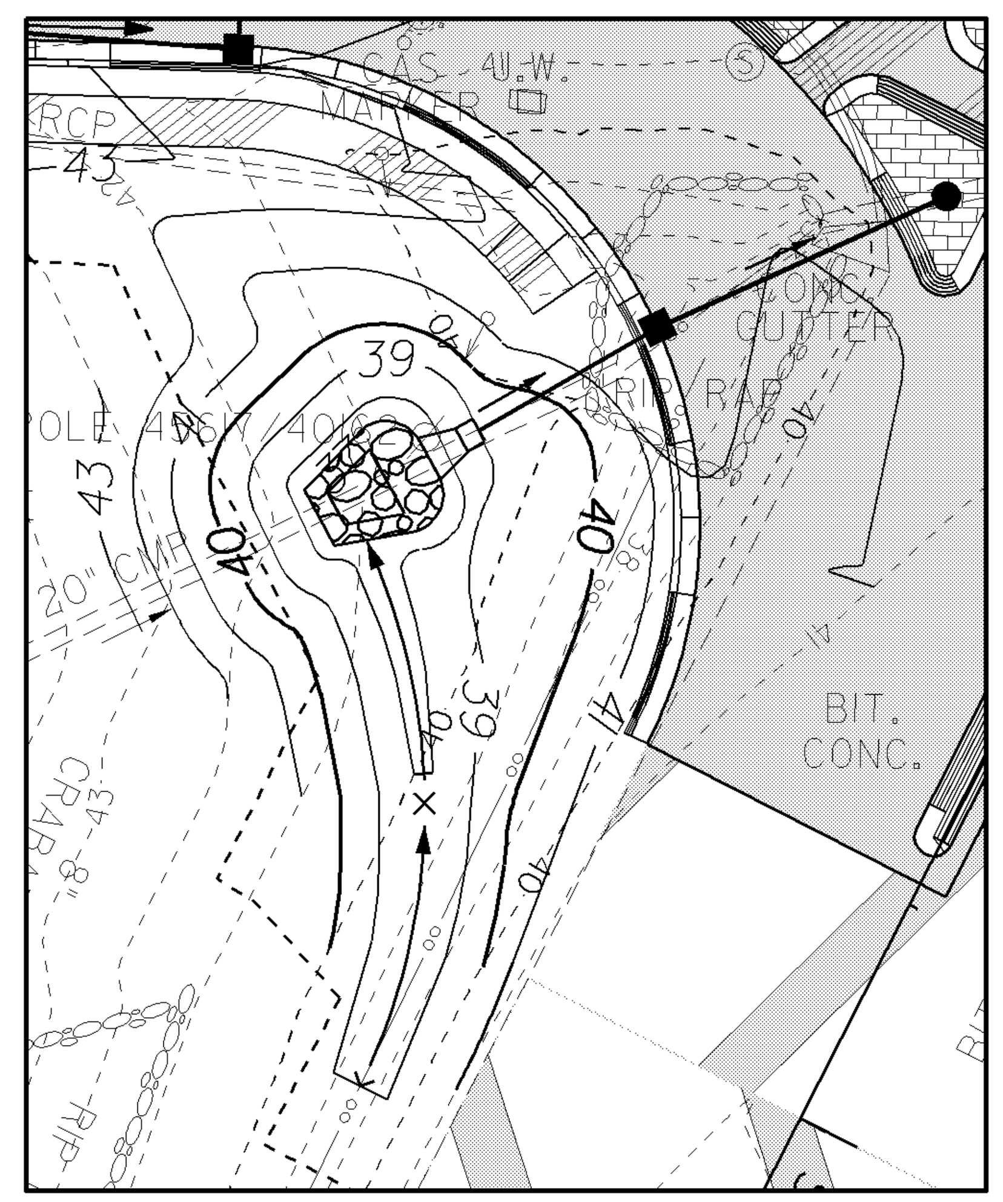
LOCATION	RIPRAP SIZE	D	T_1	T_2*	W_1	W_2	W_3	L
STA.94+57 LT.	⚠ ~~R-5~~ R-4	8"	18"	6"	3.5'	6'	8.6'	3.3'
STA.94+82 LT.	⚠ ~~R-5~~ R-4	8"	18"	6"	3.5'	6'	8.6'	3.3'
STA.95+50 LT.	⚠ ~~R-5~~ R-4	1.3'	18"	6"	15.0'	21.0'	30.2'	9.0'
STA.117+33 RT.	⚠ ~~R-5~~ R-4	1'	18"	6"	3.7'	7.7'	15.2'	6.0'

* #3 STONE



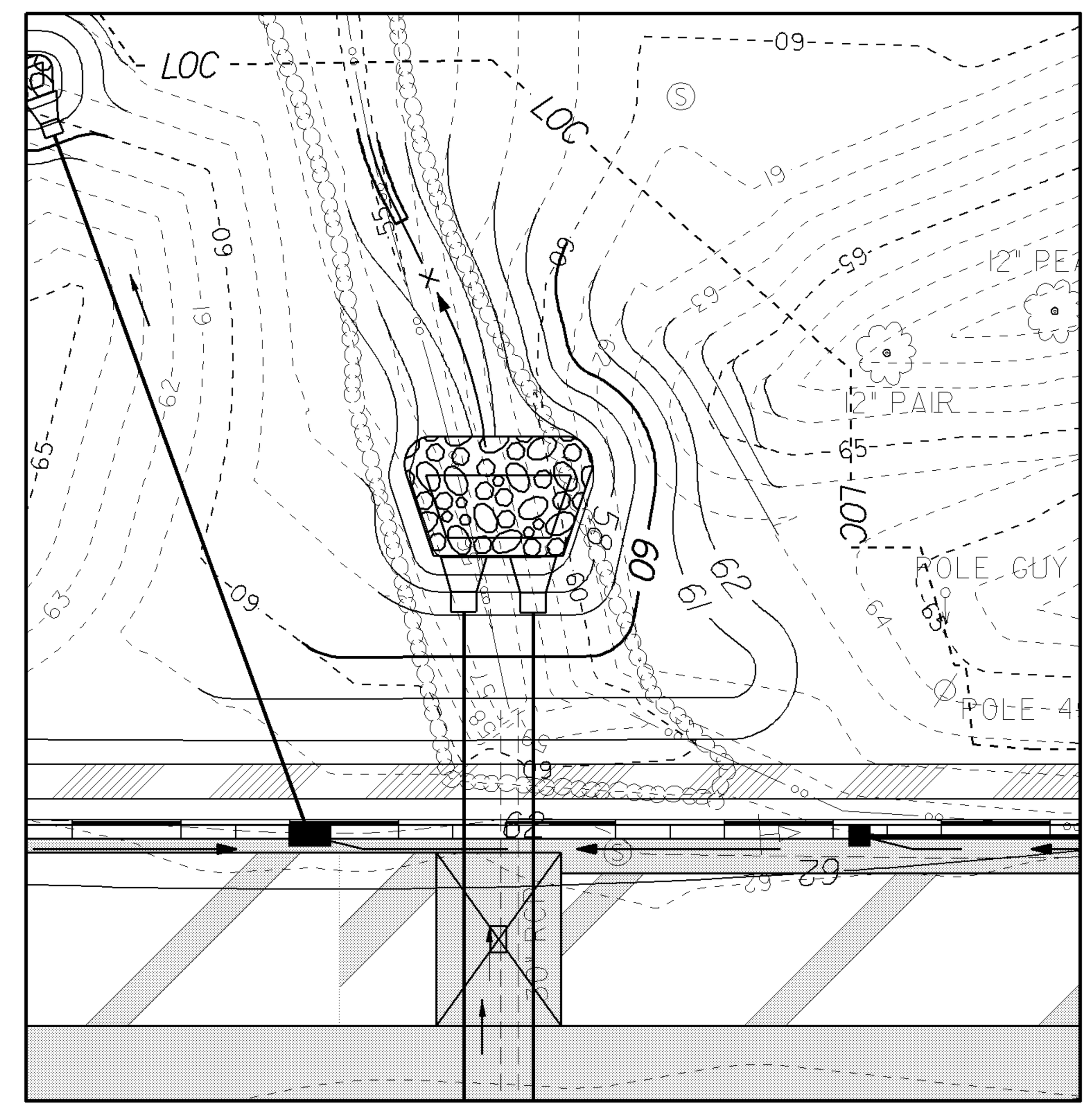
GRADING DETAIL FOR PIPE ENERGY DISSIPATOR P6 AND P7 @ STA. 94+57 LT. AND STA. 94+82 LT.

SCALE: NONE



GRADING DETAIL FOR PIPE ENERGY DISSIPATOR P62 @ STA. 117+33 RT.

SCALE: NONE



GRADING DETAIL FOR PIPE ENERGY DISSIPATOR P20 AND P34@ STA. 95+50 LT.

SCALE: NONE

PREL. TRACING SJB DESIGN KGM-A CHKD. JRR

SEQUENCE OF CONSTRUCTION - PHASE 3A

1. REMOVE TEMPORARY TRAFFIC CONTROL DEVICES FROM PHASE 2E.
2. PLACE ALL TEMPORARY WARNING SIGNS AS SHOWN ON THIS PLAN AND THE MAINTENANCE OF TRAFFIC WARNING SIGN LOCATIONS PLAN, IN ACCORDANCE WITH THE TRAFFIC CONTROL MANUAL.
3. USING TYPICAL APPLICATION 10 OR 17A OF THE TRAFFIC CONTROL MANUAL, REMOVE EXISTING STRIPING AS NECESSARY AND PLACE TEMPORARY STRIPING AS SHOWN FOR PHASE 3A. MODIFY EXISTING TRAFFIC SIGNAL AT DELDOT/CHRISTIANA MEADOWS ENTRANCE. SEE TRAFFIC SIGNAL PLAN, PHASE 1.
4. USING TYPICAL APPLICATION 10 OR 17 OF THE TRAFFIC CONTROL MANUAL, PLACE PLASTIC DRUMS ALONG THE NORTHBOUND SIDE OF SR 7. ALLOW FOR DRUM OPENINGS AT EXISTING ENTRANCES AND DRIVEWAYS WHERE SHOWN.
5. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN, OR AS DIRECTED BY THE ENGINEER.
6. INSTALL ITMS JUNCTION WELLS AND CONDUIT FROM THE DELDOT ENTRANCE TO SCHOOL BELL ROAD.
7. SAW CUT AND REMOVE EXISTING PAVEMENT ALONG THE NORTHBOUND SIDE OF SR 7 WHERE SHOWN.
8. CONSTRUCT DRAINAGE SYSTEM WORKING UPSTREAM FROM OUTFALL POINT(S).
9. GRADE AND EXCAVATE FOR PROPOSED PAVEMENT SECTION. INSTALL UNDERDRAINS WHERE SHOWN.
10. CONSTRUCT RETAINING WALLS FROM STA. 111+55 TO STA. 113+22 RT.
11. CONSTRUCT PROPOSED CURB AND GUTTER AND SIDEWALKS WHERE SHOWN.
12. PLACE PROPOSED HOT-MIX PAVING SECTION UP TO TOP OF TYPE B HOT-MIX LAYER WITHIN LIMITS SHOWN.
13. STABILIZE ALL DISTURBED AREAS WITH TOPSOIL, SEED AND MULCH PRIOR TO REMOVAL OF SEDIMENT CONTROL DEVICES, IN ACCORDANCE WITH DIVISION 200 OF THE DELAWARE STANDARD SPECIFICATIONS. REMOVE ALL EROSION AND SEDIMENT CONTROL DEVICES NOT REQUIRED DURING FUTURE CONSTRUCTION PHASES.

MOT LEGEND

- TEMPORARY PAVEMENT
- PROPOSED CONSTRUCTION THIS PHASE
- SIGN
- TYPE III BARRICADE
- PLASTIC DRUM
- EXISTING DIRECTION OF TRAVEL
- PROPOSED DIRECTION OF TRAVEL
- TEMPORARY PAVEMENT MARKING
- (A) 4" WHITE TEMPORARY PAVEMENT MARKINGS
- (B) 4" YELLOW TEMPORARY PAVEMENT MARKINGS
- (C) 4" DOUBLE YELLOW TEMPORARY PAVEMENT MARKINGS
- (D) 16" WHITE TEMPORARY PAVEMENT MARKINGS
- (E) 4" SKIP WHITE REMOVABLE PAVEMENT MARKINGS
- TYPE C ARROW PANEL

NOTES:

1. ACCESS TO SIDE ROADS AND ENTRANCES SHALL BE MAINTAINED AT ALL TIMES, EXCEPT WHERE SHOWN. REBUILD ENTRANCES IN HALF-SECTION UNDER FLAGGER CONTROL (SEE DETAIL ON MOT GENERAL TRAFFIC NOTES).
2. UTILITY COORDINATION AND RELOCATIONS SHALL OCCUR CONCURRENTLY WITH PHASE 1C CONSTRUCTION.

CONSTRUCTION PHASING, MOT AND EROSION CONTROL PHASE 3A

SCALE 0 50 100 150 FEET

CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
T200312601	NEW CASTLE	SEE TITLE SHEET	75	115

SR 7, NEWTOWN ROAD TO SR 273

REVISIONS	
⚠ REMOVED MATCH LINE AT STA. 100+50; TAO/MJV 01/20/12	

R2-1 (48" X 36") SPEED LIMIT 35

MATCH LINE STA. 100+50

PC STA. 100+94.89

PRC STA. 104+26.95

PT STA. 107+54.81

PC STA. 111+77.91

MATCH LINE STA. 116+50

SR 7

PHASE 3A

35' (TYP.)

10' (TYP.)

SCE

20' SANITARY SEWER EASEMENT PER M/F 8500

20' UTILITY EASEMENT PER D.B.M. 57

R10-6a (24"X30") STOP HERE ON RED

R2-1 (48" X 36") SPEED LIMIT 35

PREL. TRACING SJB DESIGN KGM-A CHK'D. JRR

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CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
T200312601	NEW CASTLE	SEE TITLE SHEET	77	115

SR 7, NEWTOWN ROAD TO SR 273

REVISIONS	
⚠ REMOVED MATCH LINE AT STA. 100+50; TAO/MJV 01/20/12	

CONSTRUCTION PHASING, MOT AND EROSION CONTROL PHASE 3B

SCALE
0 50 100 150
FEET

N

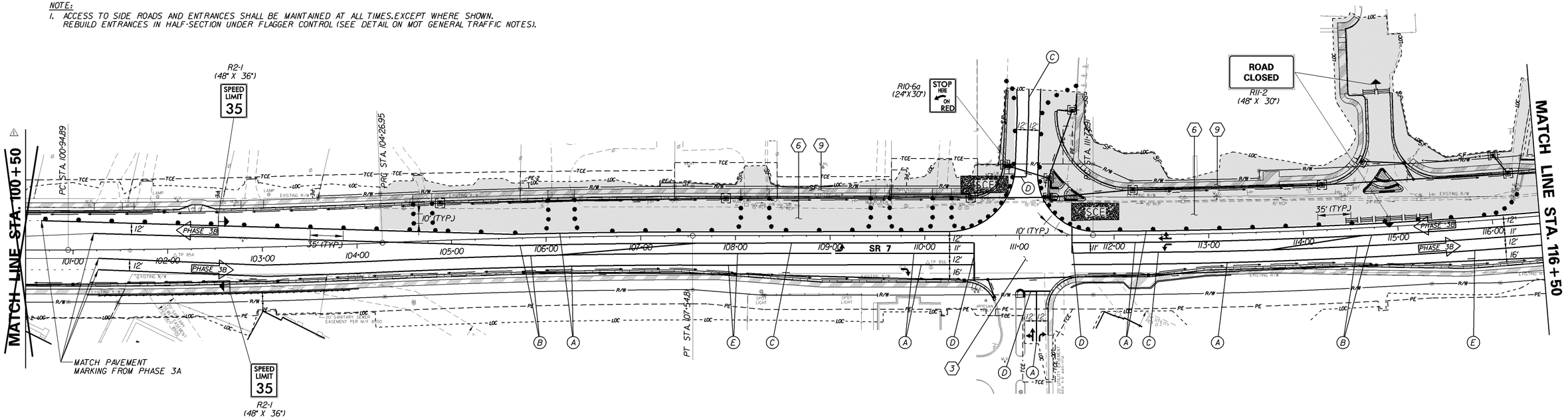
SEQUENCE OF CONSTRUCTION - PHASE 3B

1. REMOVE TEMPORARY TRAFFIC CONTROL DEVICES FROM PHASE 3A.
2. PLACE ALL TEMPORARY WARNING SIGNS AS SHOWN ON THIS PLAN AND THE MAINTENANCE OF TRAFFIC WARNING SIGN LOCATIONS PLAN, IN ACCORDANCE WITH THE TRAFFIC CONTROL MANUAL.
3. USING TYPICAL APPLICATION 10 OR 17A OF THE TRAFFIC CONTROL MANUAL, REMOVE EXISTING STRIPING AS NECESSARY AND PLACE TEMPORARY STRIPING AS SHOWN FOR PHASE 2D. MODIFY EXISTING TRAFFIC SIGNAL AT DELDOT/CHRISTIANA MEADOWS ENTRANCE. SEE TRAFFIC SIGNAL PLAN, PHASE 2.
4. USING TYPICAL APPLICATION 10 OR 17 OF THE TRAFFIC CONTROL MANUAL, PLACE PLASTIC DRUMS ALONG THE SOUTHBOUND SIDE OF SR 7. ALLOW FOR DRUM OPENINGS AT EXISTING ENTRANCES AND DRIVEWAYS AS SHOWN.
5. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN, OR AS DIRECTED BY THE ENGINEER. MAINTAIN DRAINAGE INLET SEDIMENT CONTROL FROM PHASE 3A.
6. SAW CUT AND REMOVE EXISTING PAVEMENT ALONG THE SOUTHBOUND SIDE OF SR 7 AS SHOWN.
7. CONSTRUCT DRAINAGE SYSTEM WORKING UPSTREAM FROM OUTFALL POINT(S).
8. GRADE AND EXCAVATE FOR PROPOSED PAVEMENT SECTION. INSTALL UNDERDRAINS WHERE SHOWN.
9. CONSTRUCT PROPOSED CURB AND GUTTER AND SIDEWALKS WHERE SHOWN.
10. PLACE PROPOSED HOT-MIX PAVING SECTION UP TO TOP OF TYPE B HOT-MIX LAYER WITHIN LIMITS SHOWN.
11. STABILIZE ALL DISTURBED AREAS WITH TOPSOIL, SEED AND MULCH PRIOR TO REMOVAL OF SEDIMENT CONTROL DEVICES, IN ACCORDANCE WITH DIVISION 200 OF THE DELAWARE STANDARD SPECIFICATIONS. REMOVE ALL EROSION AND SEDIMENT CONTROL DEVICES NOT REQUIRED DURING FUTURE CONSTRUCTION PHASES.

MOT LEGEND

- TEMPORARY PAVEMENT
- PROPOSED CONSTRUCTION THIS PHASE
- SIGN
- TYPE III BARRICADE
- PLASTIC DRUM
- EXISTING DIRECTION OF TRAVEL
- PROPOSED DIRECTION OF TRAVEL
- TEMPORARY PAVEMENT MARKING
- (A) 4" WHITE TEMPORARY PAVEMENT MARKINGS
- (B) 4" YELLOW TEMPORARY PAVEMENT MARKINGS
- (C) 4" DOUBLE YELLOW TEMPORARY PAVEMENT MARKINGS
- (D) 16" WHITE TEMPORARY PAVEMENT MARKINGS
- (E) 4" SKIP WHITE REMOVABLE PAVEMENT MARKINGS
- TYPE C ARROW PANEL

NOTE:
1. ACCESS TO SIDE ROADS AND ENTRANCES SHALL BE MAINTAINED AT ALL TIMES, EXCEPT WHERE SHOWN. REBUILD ENTRANCES IN HALF-SECTION UNDER FLAGGER CONTROL (SEE DETAIL ON MOT GENERAL TRAFFIC NOTES).



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SEQUENCE OF CONSTRUCTION - PHASE 3C

1. REMOVE TEMPORARY TRAFFIC CONTROL DEVICES FROM PHASE 3B.
2. PLACE ALL TEMPORARY WARNING SIGNS AS SHOWN ON THIS PLAN AND THE MAINTENANCE OF TRAFFIC WARNING SIGN LOCATIONS PLAN, IN ACCORDANCE WITH THE DELAWARE TRAFFIC CONTROL MANUAL.
3. USING TYPICAL APPLICATION 33 OR 35B OF THE TRAFFIC CONTROL MANUAL, REMOVE EXISTING STRIPING AS NECESSARY AND PLACE TEMPORARY STRIPING AS SHOWN FOR PHASE 3C.
4. USING TYPICAL APPLICATION 33 OR 35 OF THE TRAFFIC CONTROL MANUAL, PLACE PLASTIC DRUMS ALONG THE MEDIAN OF SR 7.
5. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN, OR AS DIRECTED BY THE ENGINEER. MAINTAIN DRAINAGE INLET SEDIMENT CONTROL FROM PHASE 3A AND PHASE 3B.
6. SAW CUT AND REMOVE EXISTING AND TEMPORARY PAVEMENT ALONG THE MEDIAN AREA OF SR 7.
7. COMPLETE DRAINAGE SYSTEM.
8. CONSTRUCT PROPOSED MEDIAN CURB AND PATTERNED CONCRETE WHERE SHOWN.
9. GRADE AND EXCAVATE FOR PROPOSED PAVEMENT SECTION.
10. PLACE PROPOSED HOT-MIX PAVING SECTION UP TO TOP OF TYPE B HOT-MIX LAYER WITHIN LIMITS SHOWN. MEDIAN OPENING AREAS THAT PROVIDE CROSS ACCESS TO BE CONSTRUCTED UNDER FLAGGER CONTROL.
11. INSTALL LANDSCAPING AS INDICATED ON PLANS.
12. STABILIZE ALL DISTURBED AREAS WITH TOPSOIL, SEED AND MULCH PRIOR TO REMOVAL OF SEDIMENT CONTROL DEVICES, IN ACCORDANCE WITH DIVISION 200 OF THE DELAWARE STANDARD SPECIFICATIONS.

MOT LEGEND

- TEMPORARY PAVEMENT
- PROPOSED CONSTRUCTION THIS PHASE
- SIGN
- TYPE III BARRICADE
- PLASTIC DRUM
- EXISTING DIRECTION OF TRAVEL
- PROPOSED DIRECTION OF TRAVEL
- TEMPORARY PAVEMENT MARKING
- (A) 4" WHITE TEMPORARY PAVEMENT MARKINGS
- (B) 4" YELLOW TEMPORARY PAVEMENT MARKINGS
- (C) 4" DOUBLE YELLOW TEMPORARY PAVEMENT MARKINGS
- (D) 16" WHITE TEMPORARY PAVEMENT MARKINGS
- (E) 4" SKIP WHITE REMOVABLE PAVEMENT MARKINGS
- TYPE C ARROW PANEL

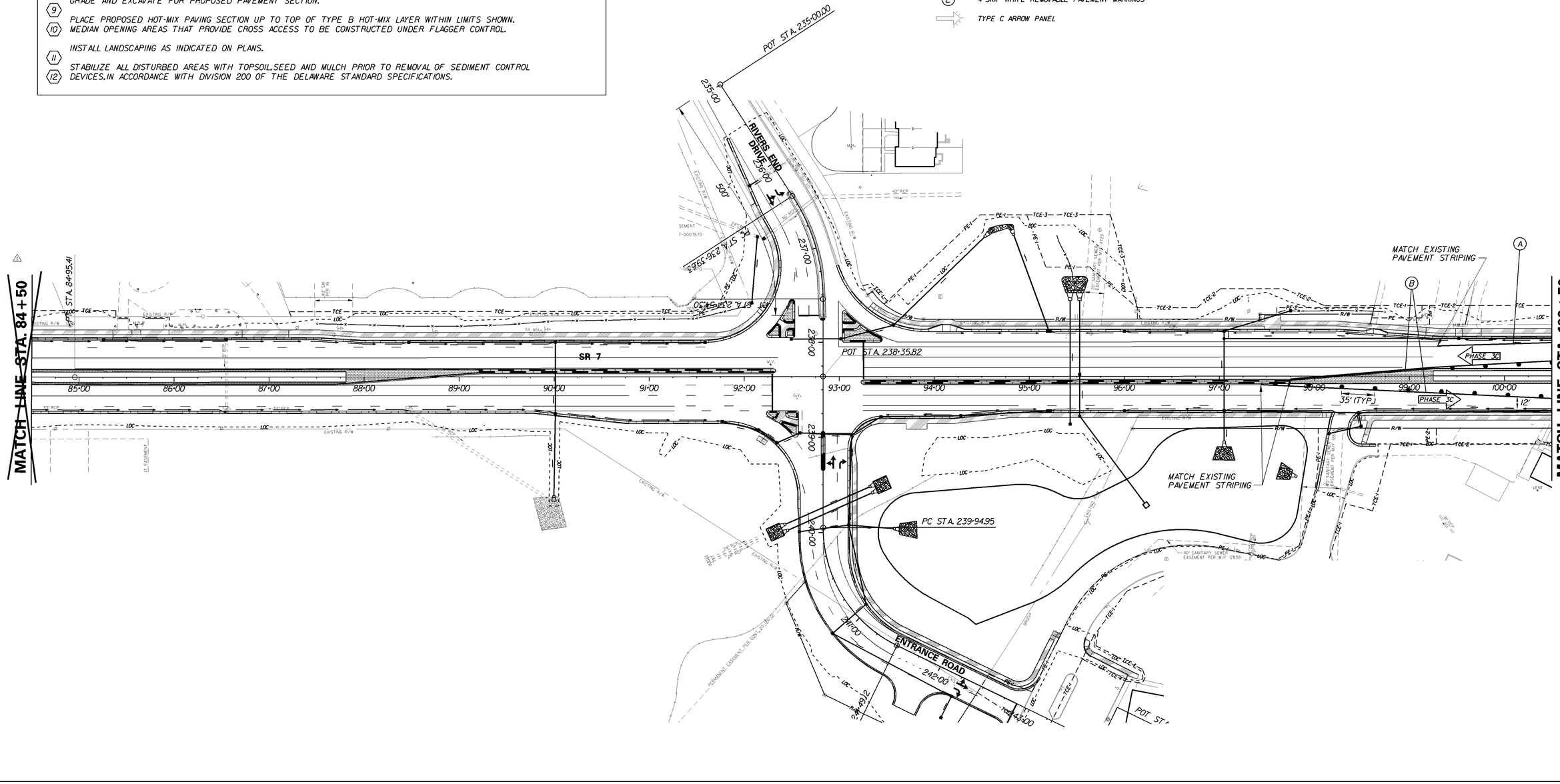
CONSTRUCTION PHASING, MOT AND EROSION CONTROL PHASE 3C

SCALE 0 50 100 150 FEET

CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
T200312601	NEW CASTLE	SEE TITLE SHEET	79	115

SR 7, NEWTOWN ROAD TO SR 273

REVISIONS	
⚠ REMOVED MATCH LINE AT STA. 84+50; TAO/MJV 01/20/12	



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CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
T200312601	NEW CASTLE	SEE TITLE SHEET	101	115

SR 7, NEWTOWN ROAD TO SR 273

SIGNING, STRIPING AND CONDUIT

SCALE 0 30 60 90 FEET

REVISIONS	
⚠1 CONDUIT RUN 125 SHOWN AS PROPOSED; TAO/MJV 01/20/12	

PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM	QUANTITY
A	WHITE ALKYD THERMOPLASTIC, PERMANENT PAVEMENT STRIPING SYMBOL/LEGEND (ITEM 748015)	347 SF
B	4" SOLID WHITE EPOXY RESIN PAINT PERMANENT PAVEMENT STRIPING (ITEM 748506)	2,113 LF
C	4" SOLID DOUBLE YELLOW EPOXY RESIN PAINT PERMANENT PAVEMENT STRIPING (ITEM 748506)	135 LF
D	4" SOLID YELLOW EPOXY RESIN PAINT, PERMANENT PAVEMENT STRIPING (ITEM 748506)	1,698 LF
E	4" DASHED WHITE EPOXY RESIN PAINT PERMANENT PAVEMENT STRIPING (2' LINE 6' GAP) (ITEM 748506)	309 LF
F	4" DASHED WHITE EPOXY RESIN PAINT PERMANENT PAVEMENT STRIPING (10' LINE 30' GAP) (ITEM 748506)	325 LF
G	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL (ITEM 748551)	5 EA
H	12" SOLID YELLOW EPOXY RESIN PAINT PERMANENT PAVEMENT STRIPING (ITEM 748027)	0 LF
I	2'x10' WHITE ALKYD THERMOPLASTIC, PERMANENT PAVEMENT STRIPING SYMBOL/LEGEND (ITEM 748015)	470 SF
J	2'x6' WHITE ALKYD THERMOPLASTIC, PERMANENT PAVEMENT STRIPING SYMBOL/LEGEND (ITEM 748015)	415 SF

NOTES:

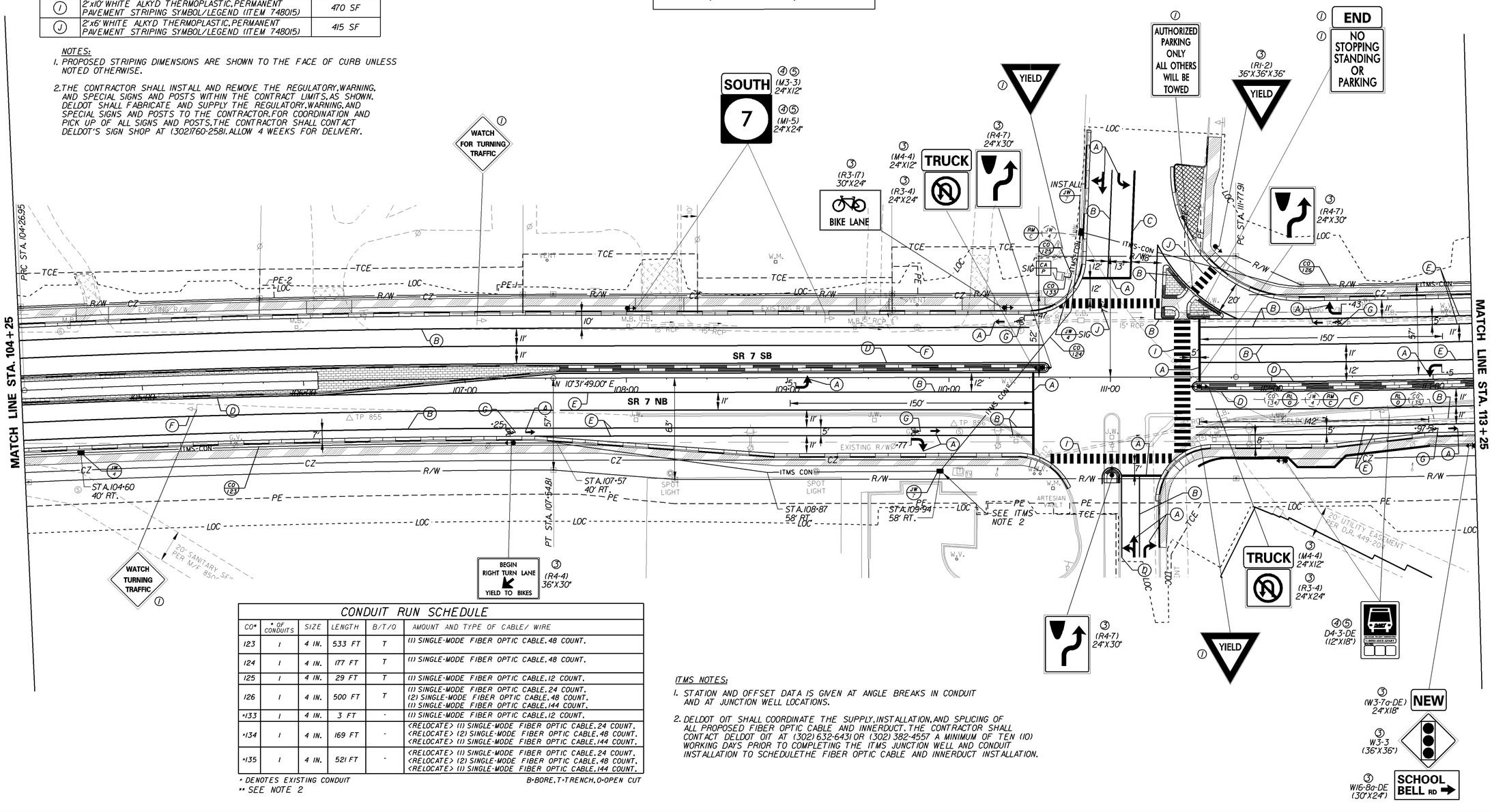
1. PROPOSED STRIPING DIMENSIONS ARE SHOWN TO THE FACE OF CURB UNLESS NOTED OTHERWISE.
2. THE CONTRACTOR SHALL INSTALL AND REMOVE THE REGULATORY, WARNING, AND SPECIAL SIGNS AND POSTS WITHIN THE CONTRACT LIMITS, AS SHOWN. DELDOT SHALL FABRICATE AND SUPPLY THE REGULATORY, WARNING, AND SPECIAL SIGNS AND POSTS TO THE CONTRACTOR. FOR COORDINATION AND PICK UP OF ALL SIGNS AND POSTS, THE CONTRACTOR SHALL CONTACT DELDOT'S SIGN SHOP AT (302)760-2581. ALLOW 4 WEEKS FOR DELIVERY.

SIGN LEGEND

1. REMOVE EXISTING SIGN
2. EXISTING SIGN TO REMAIN
3. PLACE NEW SIGN
4. RENEW EXISTING SIGN
5. REPOSITION EXISTING SIGN

ITMS LEGEND

- –ITMS-CON– – MULTIDUCT ITMS CONDUIT
- –DOT-UG– – EXISTING ITMS CONDUIT
- ■ – ITMS CONDUIT JUNCTION WELL
- J.W. □ – EXISTING CONDUIT JUNCTION WELL
- JW X – PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
- CO X – PROPOSED CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)
- JW X – EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
- CO X – EXISTING CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)



CONDUIT RUN SCHEDULE

CO*	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/ WIRE
123	1	4 IN.	533 FT	T	(1) SINGLE-MODE FIBER OPTIC CABLE, 48 COUNT.
124	1	4 IN.	177 FT	T	(1) SINGLE-MODE FIBER OPTIC CABLE, 48 COUNT.
125	1	4 IN.	29 FT	T	(1) SINGLE-MODE FIBER OPTIC CABLE, 12 COUNT.
126	1	4 IN.	500 FT	T	(1) SINGLE-MODE FIBER OPTIC CABLE, 24 COUNT. (2) SINGLE-MODE FIBER OPTIC CABLE, 48 COUNT. (1) SINGLE-MODE FIBER OPTIC CABLE, 144 COUNT.
*133	1	4 IN.	3 FT	-	(1) SINGLE-MODE FIBER OPTIC CABLE, 12 COUNT.
*134	1	4 IN.	169 FT	-	<RELOCATE> (1) SINGLE-MODE FIBER OPTIC CABLE, 24 COUNT. <RELOCATE> (2) SINGLE-MODE FIBER OPTIC CABLE, 48 COUNT. <RELOCATE> (1) SINGLE-MODE FIBER OPTIC CABLE, 144 COUNT.
*135	1	4 IN.	521 FT	-	<RELOCATE> (1) SINGLE-MODE FIBER OPTIC CABLE, 24 COUNT. <RELOCATE> (2) SINGLE-MODE FIBER OPTIC CABLE, 48 COUNT. <RELOCATE> (1) SINGLE-MODE FIBER OPTIC CABLE, 144 COUNT.

* DENOTES EXISTING CONDUIT
** SEE NOTE 2
B-BORE, T-TRENCH, O-OPEN CUT

ITMS NOTES:

1. STATION AND OFFSET DATA IS GIVEN AT ANGLE BREAKS IN CONDUIT AND AT JUNCTION WELL LOCATIONS.
2. DELDOT OIT SHALL COORDINATE THE SUPPLY, INSTALLATION, AND SPLICING OF ALL PROPOSED FIBER OPTIC CABLE AND INNERDUCT. THE CONTRACTOR SHALL CONTACT DELDOT OIT AT (302) 632-6431 OR (302) 382-4557 A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO COMPLETING THE ITMS JUNCTION WELL AND CONDUIT INSTALLATION TO SCHEDULE THE FIBER OPTIC CABLE AND INNERDUCT INSTALLATION.

PREL. TRACING ____ S.JB ____ DESIGN ____ KGM-A ____ CHK'D. ____ JRR

1/20/2012

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