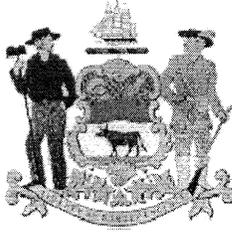


THE STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION  
OFFICE OF TRANSPORTATION SOLUTIONS  
PLANS AND SPECIFICATIONS FOR

CONTRACT NUMBER- T201006111

NORTH MAINTENANCE

FEDERAL AID NUMBER- ESTP-N024(14)

PAGE 1 OF 30

CONTRACT TITLE- PAVEMENT & REHABILITATION - NORTH XI, 2010

PLANS PREPARED BY:

*George LeCates*

DESIGN TECHNICIAN

DATE RECOMMENDED: 5/31/11

*Chris A...*

GROUP ENGINEER, CONSTRUCTION - NORTH II

DATE RECOMMENDED: 5-31-11

*Thomas Clements*

ASSIST. DIRECTOR, CONSTRUCTION - NORTH

DATE RECOMMENDED: 5-31-11

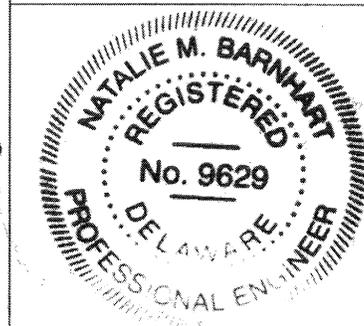
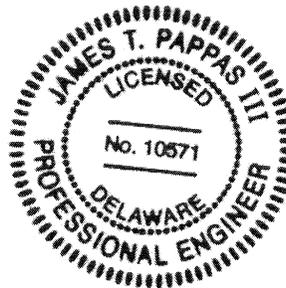
*James T. Pappas III*

ASSIST. DIRECTOR, DESIGN

DATE RECOMMENDED: 5-31-11

*Natalie Barnhart*

CHIEF ENGINEER



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WEBSITE  
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DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201006111

PAGE 2 OF 30

PHILADELPHIA PIKE FROM HESSLER LANE TO HOT-MIX PCC JOINT AT I-495 (RD60)

LOCATION MAP

Loc. #1 – Commonwealth Avenue Intersection Improvements

U.S. 13 AND COMMONWEALTH AVENUE  
INTERSECTION IMPROVEMENTS

CONTRACT NUMBER: T201006111  
FEDERAL AID PROJECT NUMBER: \_\_\_\_\_

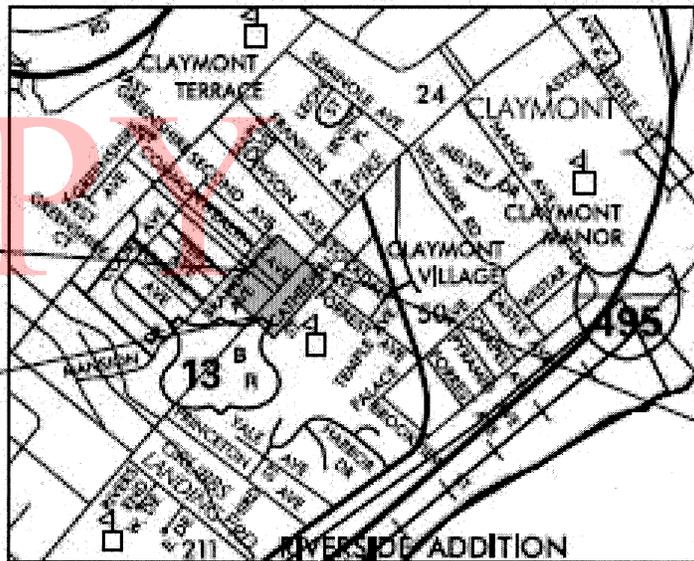
COUNTY: NEW CASTLE M.R. #: 24

UNOFFICIAL  
WEBSITE  
COPY

LIMIT OF WORK  
COMMONWEALTH AVENUE  
STA. 301+77

BEGIN WORK  
STA. 51+29

END WORK  
STA. 55+01



PROJECT LOCATION  
NOT TO SCALE



PAVEMENT & REHABILITATION, NORTH XI, 2010

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GENERAL CONTRACT PLAN NOTES

REVISED 8/10

GENERAL

1. CONSTRUCTION OF THIS CONTRACT SHALL CONFORM TO DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED AUGUST 2001 AS AMENDED BY THE SUPPLEMENTAL SPECIFICATIONS, THE SPECIAL PROVISIONS, THE MOST RECENT STANDARD CONSTRUCTION DETAILS, DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THESE PLANS.

2. THE PURPOSE OF THIS CONTRACT IS TO MAKE GENERAL IMPROVEMENTS TO ROADS AND/OR STREETS WITHIN THE DISTRICT HEREIN SPECIFIED. DEPENDING ON FUND AVAILABILITY, THE DEPARTMENT RESERVES THE RIGHT TO ADD OR DELETE LOCATIONS AND/OR QUANTITIES FOR THIS CONTRACT. SUCH LOCATION OR QUANTITY ADDITIONS OR DELETIONS SHALL NOT BE CAUSE FOR AN INCREASE OR DECREASE IN ANY CONTRACT UNIT BID PRICES. NO ITEM PRICES ARE TO BE RENEGOTIATED DUE TO EITHER AN INCREASE OR DECREASE IN QUANTITY USAGE RESULTING FROM SAID ADDITIONS OR DELETIONS.

3. THE CONTRACTOR SHALL PROVIDE ALL RESIDENTS AND BUSINESSES WHO LIVE ADJACENT TO THE WORK ZONE A MINIMUM 48 HR. PRIOR WRITTEN NOTICE FOR THE START OF CONSTRUCTION WORK. THIS NOTIFICATION SHALL INCLUDE THE SCOPE OF WORK, WORKING HOURS, ANTICIPATED START AND COMPLETION DATES, CONTRACTOR NAME & ADDRESS, AND DELDOT CONTACT NUMBERS. FAILURE TO GIVE PROPER NOTICE WILL RESULT IN A SUSPENSION OF WORK REQUIRING NOTICE, UNTIL PROPER NOTICE IS PROVIDED. ACCESS TO ALL BUSINESSES AND RESIDENCES WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THIS CONTRACT. ANY TEMPORARY CLOSURE OF A DRIVEWAY FOR TIE-IN PURPOSES SHALL BE COORDINATED WITH THE ENGINEER AND/OR PROPERTY OWNER IN ADVANCE OF THE CLOSURE.

4. THE CONTRACTOR SHALL SUBMIT THE REQUIRED COPIES OF A DETAILED PROGRESS SCHEDULE (PSC) AS OUTLINED IN STANDARD SPECIFICATION 108.04 PRIOR TO OR AT THE PRECONSTRUCTION MEETING. DETAILS SHALL INCLUDE A DESCRIPTION OF EACH WORK ACTIVITY, THE PLANNED DAYS OF WORK, MULTIPLE CREWS OR SHIFTS, AND SCHEDULED WORKING HOURS. DURING THE CONTRACT, THE CONTRACTOR SHALL SUBMIT TWO-WEEK (OR AS REQUIRED) "LOOK AHEAD" SCHEDULES TO THE AREA ENGINEER/ MANAGER NO LATER THAN NOON OF EACH THURSDAY. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

PAVEMENT & REHABILITATION, NORTH XI, 2010

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**GENERAL CONTRACT PLAN NOTES**

MAINTENANCE OF TRAFFIC AND PAVEMENT MARKINGS

5. AT THE PRECONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS (INCLUDING BUT NOT LIMITED TO EXISTING STRIPING LENGTHS, LANE AND SHOULDER WIDTHS, TURN LANE LENGTHS, LOCATIONS OF STOP BARS, TURN ARROWS, CROSSWALKS AND RAILROAD CROSSINGS) THAT DEPICT THE EXISTING PAVEMENT MARKINGS FOR EACH PROJECT LOCATION. THESE DRAWINGS WILL BE REVIEWED BY THE DEPARTMENT'S TRAFFIC SECTION TO DETERMINE IF ANY CHANGES TO THE FINAL PAVEMENT MARKINGS ARE REQUIRED. FINAL PAVEMENT MARKINGS SHALL CONFORM TO ALL EXISTING PATTERNS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

THE DEPARTMENT WILL PROVIDE STRIPING LAYOUT AT LOCATIONS WHERE NO PAVEMENT MARKINGS PREVIOUSLY EXISTED. IF DEPARTMENT FORCES PROVIDE STRIPING LAYOUT ON LOCATIONS WHERE MARKINGS PREVIOUSLY EXISTED, THEN THE CONTRACTOR SHALL REIMBURSE THE DEPARTMENT FOR THE LAYOUT COSTS.

UNLESS OTHERWISE DIRECTED BY THE ENGINEER, WHITE EDGE LINES SHALL WRAP AROUND THE RADIUS OF ALL SIDE STREETS AND MAJOR COMMERCIAL ENTRANCES TO A TANGENT POINT. YELLOW CENTERLINES SHALL BE CONTINUOUS AROUND MEDIAN ISLANDS. ALL DOUBLE YELLOW CENTERLINES SHALL BE PLACED IN A 4-6-4 CONFIGURATION (2 EACH, 4" YELLOW STRIPES WITH A 6" GAP BETWEEN).

THE CONTRACTOR SHALL BE REQUIRED TO SHOW PROOF THAT HE HAS SUFFICIENT APPROVED STRIPING MATERIALS ON HAND TO ENSURE STRIPING IS COMPLETED PRIOR TO FULL OPENING ROADWAY TO TRAFFIC.

6. ANY ERRONEOUS MARKING WILL NOT BE PAID FOR AND SHALL BE CORRECTED IMMEDIATELY AT THE CONTRACTORS EXPENSE. ERRONEOUS MARKINGS OR SHADOWS THAT EXCEED ONE (1) INCH IN WIDTH SHALL BE REMOVED BY EITHER SAND OR WATER BLASTING AS DIRECTED BY THE ENGINEER. NO OTHER REMOVAL METHODS WILL BE ALLOWED. A FLAT BLACK PAINT OR DRIVEWAY SEALER SHALL BE APPLIED IN THE AREA OF THE REMOVED MARKING TO MASK THE REPAIR. ANY DAMAGE TO THE PAVEMENT CAUSED BY REMOVAL OF ERRONEOUS MARKINGS SHALL BE REPAIRED / REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTORS EXPENSE.

7. AT THE END OF EACH DAY'S OPERATION AND BEFORE TRAFFIC IS RETURNED TO UNRESTRICTED ROADWAY USE, TEMPORARY STRIPING SHALL BE UTILIZED AT LOCATIONS THAT REQUIRE PERMANENT STRIPING. TEMPORARY PAVEMENT STRIPING

PAVEMENT & REHABILITATION, NORTH XI, 2010

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**GENERAL CONTRACT PLAN NOTES**

MUST MATCH PERMANENT PAVEMENT STRIPING IN ALL REGARDS. TEMPORARY PAVEMENT MARKINGS SHALL BE PAID AT THE APPLICABLE CONTRACT UNIT PRICE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE TEMPORARY MARKINGS IN GOOD CONDITION SUCH THAT THE PAVEMENT IS PROPERLY DELINEATED AT ALL TIMES. ANY REFRESHING OF THE TEMPORARY MARKINGS WILL BE AT THE CONTRACTOR'S EXPENSE.

8. WORK SHALL BE PERFORMED IN A MANNER THAT WILL ENSURE THE LEAST PRACTICAL OBSTRUCTION TO THE TRAVELING PUBLIC AND SHALL COMPLY WITH THE REQUIREMENTS OF THE MANUAL ENTITLED THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES INCLUDING REVISIONS IN EFFECT AT THE TIME OF ADVERTISEMENT FOR BIDS.

9. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN, INCLUDING THE NECESSARY NCHRP 350 CERTIFICATIONS FOR ALL DEVICES THAT WILL BE UTILIZED, FOR EACH LOCATION BEFORE THE START OF THE PRE-CONSTRUCTION MEETING. WRITTEN APPROVAL MUST BE RECEIVED BEFORE THE START OF WORK AT EACH AND EVERY LOCATION.

10. ALL TRAFFIC CONTROL DEVICES SHALL BE IN NEW OR REFURBISHED CONDITION AND SHALL BE IN COMPLIANCE WITH THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND NCHRP 350 AS DEFINED IN SECTION "6A.01" OF THE MANUAL. THE DEVICES SHALL BE APPROVED BY THE ENGINEER PRIOR TO USE AND SHALL BE MAINTAINED IN GOOD CONDITION FOR THE DURATION OF THE CONTRACT.

11. TRAFFIC DETECTION LOOPS SHALL BE PLACED IN THE FINAL WEARING SURFACE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

12. TRAFFIC DETECTION LOOPS THAT ARE CURRENTLY 5'x7' SHALL BE REPLACED WITH LOOPS THAT ARE 6'x6' AT THE SAME LOCATION. STOP BAR DETECTION LOOPS SHALL BE THE SAME SIZE AS CURRENTLY EXISTING, AND SHOULD BE PLACED STARTING TWO FEET BEHIND THE STOP BAR, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IF SEPARATE SIGNAL PLANS HAVE BEEN DEVELOPED, THE PLANS SUPERSEDE THIS NOTE.

13. EFFECTIVE 1/5/10 THE HORIZONTAL CIRCUMFERENTIAL MARKINGS ON PLASTIC DRUMS SHALL BE MADE OF FLOURESCENT ORANGE AND WHITE PRISMATIC RETROFLECTIVE SHEETING.

14. ALL PERMANENT WARNING SIGNS SHALL BE MADE OF NCHRP 350 COMPLIANT RIGID MATERIAL.

PAVEMENT & REHABILITATION, NORTH XI, 2010

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**GENERAL CONTRACT PLAN NOTES**

**15. STOP LINES "BARS" SHALL BE PLACED AT ALL STOP SIGNS AND SHALL BE 16 INCHES WIDE AS PER THE MUTCD MANUAL SECTION 3B.16 DeIDOT REVISION.**

**16. ALL CROSSWALKS SHALL BE NO LESS THAN 6 FEET IN WIDTH AS PER THE MUTCD MANUAL SECTION 3B.17 DeIDOT REVISION.**

PROJECT

17. UNLESS SPECIFIED, OVERLAY WIDTHS SHALL MATCH EXISTING WIDTHS.

18. THE COST OF CLIPPING BACK THE EDGES OF THE ROADWAY, SHOULDERS, AND THE FIRST 3' OF UNPAVED DRIVEWAY ENTRANCES, PICKING UP AND DISPOSING OF WASTE AND EXCESS MATERIAL, AND CLEANING THE EXISTING PAVEMENT PRIOR TO OVERLAY SHALL BE INCIDENTAL TO SECTION 401( ). PREPARING UNPAVED DRIVEWAY ENTRANCES BEYOND THE FIRST 3' SHALL BE PAID UNDER THE APPROPRIATE CONTRACT ITEMS: 202000 AND/OR 30200X.

19. BUTT JOINTS SHALL BE PLACED AT ALL INTERSECTING HOT MIX ROADS AND ANY OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. BUTT JOINTS AT DRAINAGE STRUCTURES NOT TO BE RESURFACED SHALL BE AS PER THE INCLUDED PLAN DETAIL OR LOCATION NOTES. BUTT JOINTS CUT PRIOR TO THE DAY OF THE PAVEMENT OVERLAY SHALL BE RAMPED WITH HOT MIX TRM. IN MILLING AREAS, THERE WILL BE NO SEPARATE PAYMENT FOR BUTT JOINTS. AFTER PAVEMENT MILLING, ALL TRANSVERSE VERTICAL DIFFERENCES, RAISED EDGES OF MANHOLES, CATCH BASINS, WATER VALVE BOXES, ETC...SHALL BE RAMPED WITH HOT-MIX TRM AT A 20:1 OR FLATTER SLOPE PRIOR TO OPENING THE ROADWAY TO TRAFFIC. PAVEMENT MILLINGS WILL NOT BE ALLOWED FOR USE AS RAMPING MATERIAL.

20. TAPER MILLING IS INTENDED FOR MILLING IN THE AREA OF FIXED STRUCTURES (I.E. CURBS GUARDRAIL, ETC.) THE MILLED DEPTH AT THE STRUCTURE SHALL BE THE DEPTH OF THE PROPOSED OVERLAY AND 0" AT A DISTANCE OF +/- 6½' FROM THE STRUCTURE. THE COMPUTED DEPTH FOR PAYMENT PURPOSES IS THE AVERAGE OF THE TWO DEPTHS.

21. ALL MILLED MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE STATED.

22. EXCAVATION FOR P.C.C. CURBS, SIDEWALK OR VALLEY GUTTER SHALL BE INCIDENTAL TO THE BID PRICE FOR THESE RESPECTIVE ITEMS. EXCAVATED MATERIAL,

PAVEMENT & REHABILITATION, NORTH XI, 2010

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**GENERAL CONTRACT PLAN NOTES**

NOT NEEDED ON THE PROJECT, SHALL BE REMOVED FROM THE CONTRACT AT THE CONTRACTORS EXPENSE. ITEM 732XXX, TOPSOIL, SHALL BE USED AS BACKFILL MATERIAL FOR CURB AND SIDEWALK AS DIRECTED BY THE ENGINEER. TOPSOIL SHALL BE SCREENED/SIFTED SO AS NO MATERIAL GREATER THAN .5" IS PRESENT IN MATERIAL USED FOR BACKFILL. AT EACH LOCATION, BACKFILLING SHALL BE PERFORMED IMMEDIATELY UPON REMOVAL OF FORMS FOR CURB OR SIDEWALK WORK. COMPLETE RESTORATION, TOPSOIL, SEEDING, AND REMOVAL OF ALL MATERIALS FOR CURB & GUTTER OR SIDEWALK; SEALING OF VALLEY GUTTERS AND PARGING OF CATCH BASINS, SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS OF COMPLETION OF THE ITEM OF WORK. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

23. ALL ADJUSTMENTS SHALL BE MADE NO MORE THAN SEVEN (7) CALENDAR DAYS PRIOR TO THE PLACEMENT OF THE FINAL COURSE OF HOT MIX UNLESS OTHERWISE APPROVED BY THE ENGINEER. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

24. ALL PAVING, INCLUDING TURN LANES, SHOULDERS AND INTERSECTIONS, IS TO BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS FROM THE TIME THE AREA WAS MILLED. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

25. THE CONTRACTOR SHALL TAKE CARE IN REMOVING PAVEMENT AROUND UTILITIES, BUTT JOINTS, CURBS, ETC. SO THAT EXISTING PAVEMENT BEYOND THE SPECIFIED DEPTHS IS NOT DAMAGED. ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS MAY RESULT IN PLACING LEVELING COURSES AT THE CONTRACTOR'S EXPENSE. THE REMOVAL AND CLEAN UP OF THE HOT MIX RESIDUE WEDGE REMAINING AFTER MILLING OPERATIONS SHALL BE INCIDENTAL TO THE MILLING ITEM. THE REMOVAL OF EXISTING RAISED PAVEMENT MARKERS (RPM'S) SHALL BE INCIDENTAL TO THE APPLICABLE MILLING AND/OR RECLAMATION ITEMS.

26. ALL PORTLAND CEMENT CONCRETE MUST BE RECEIVED FROM AN APPROVED PRODUCTION PLANT UNLESS OTHERWISE APPROVED BY THE ENGINEER. ONLY CALIBRATED VOLUMETRIC CONCRETE TRUCKS WILL BE PERMITTED TO PROVIDE ON-SITE MIXTURES. THIS PERTAINS TO BOTH WORK OCCURRING DURING NORMAL WORKING HOURS AND NIGHTTIME RESTRICTED WORK.

27. **DRAINAGE INLETS**, WHICH ARE 4' GREATER IN DEPTH AND ARE SLATED FOR REPAIR WILL HAVE STEPS INSTALLED IN ACCORDANCE WITH SECTION 708.07 OF THE

PAVEMENT & REHABILITATION, NORTH XI, 2010

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**GENERAL CONTRACT PLAN NOTES**

STANDARD SPECIFICATIONS. PAYMENT SHALL BE INCIDENTAL TO THE UNIT PRICE BID FOR ITEM 710001.

28. THE PORTLAND CEMENT CONCRETE USED WITHIN ITEM 701002 - ADJUST AND REPAIR EXISTING MAN HOLES AND ITEM 750000 - ADJUST WATER VALVE BOX SHALL CONFORM TO THE REQUIREMENTS OF CLASS A CONCRETE AS STATED WITHIN SECTION 503.02 OF THE DEPARTMENT'S STANDARD SPECIFICATIONS.

29. THE CONTRACTOR SHALL MAINTAIN ACCESS TO AND ALONG PEDESTRIAN FACILITIES AT ALL TIMES DURING CONSTRUCTION. EARTH, STONE AND GRAVEL SURFACES ARE NOT ACCEPTABLE FOR PROVIDING PEDESTRIAN ACCESS. WHERE PEDESTRIAN ROUTES ARE CLOSED OR BLOCKED, ALTERNATE PEDESTRIAN ACCESS SHALL BE PROVIDED USING CASE 16 OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR TO THE SATISFACTION OF THE ENGINEER AND SHALL BE ADA COMPLIANT. THE COST FOR ANY PROVISIONS SHALL BE INCIDENTAL TO ITEM 763XXX - MAINTENANCE OF TRAFFIC.

30. A AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED TRAFFIC CONTROL SUPERVISOR SHALL BE REQUIRED FOR ALL LOCATIONS SPECIFIED IN THE CONTRACT PLANS.

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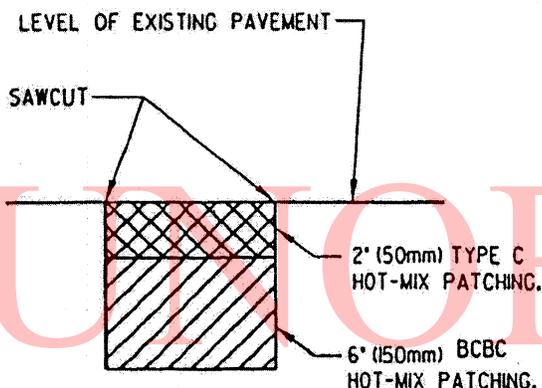
CONTRACT NUMBER- T201006111

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NORTH MAINTENANCE

PHILADELPHIA PIKE FROM HESSLER LANE TO HOT-MIX PCC JOI

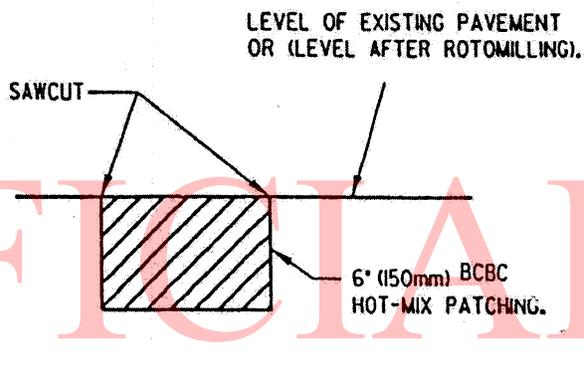
DETAILS SHEET



HOT MIX PATCH - NO OVERLAY

N.T.S.

- UNDERCUT EXCAVATION PATCHING TO BE UTILIZED BELOW 8" (200mm) WHEN DIRECTED BY THE ENGINEER.



HOT MIX PATCH - OVERLAY SECTION

N.T.S.

- UNDERCUT EXCAVATION PATCHING TO BE UTILIZED BELOW 6" (150mm) WHEN DIRECTED BY THE ENGINEER.

NOTE: PREFERRED EXCAVATION METHOD TO BE BY ROTOMILLING. SAWCUTTING EDGES SHALL BE AS DIRECTED BY ENGINEER AND DEPENDENT ON THE CONDITION LEFT BY THE ROTOMILLING OPERATION. BACKFILL FOR UNDERCUT EXCAVATION SHALL BE SUPERPAVE BCBC PATCH (SEPERATE LIFT). MINIMUM WIDTH OF PATCHING 6' (1.8M).

THIS DETAIL SHALL BE USED FOR ALL HOT MIX PATCHES UNLESS OTHERWISE SHOWN ON THE PLANS. ALL HOT MIX TO BE PLACED USING A PAVER.

WHEN PCC PATCHING IS REQUIRED ON A COMPOSITE PAVEMENT(HOT-MIX OVER CONCRETE), THE CONTRACTOR MAY ELECT TO ELIMINATE ANY GRADE DIFFERENCE BETWEEN THE TOP OF THE CONCRETE PATCH AND THE TOP OF THE EXISTING HOT-MIX PAVEMENT BY EITHER PLACING HOT-MIX TRM MATERIAL(PAYMENT UNDER ITEM 402000) OR PLACING CONCRETE FLUSH WITH EXISTING HOT-MIX PAVEMENT(ADDITIONAL CONCRETE PAID AS ITEM 503503). IF CONCRETE IS PLACED FLUSH WITH EXISTING HOT-MIX, THE ROTOMILLING OF THE CONCRETE WILL BE PAID FOR AS ROTOMILLING HOT-MIX.

P.C.C. PATCHING NOTES

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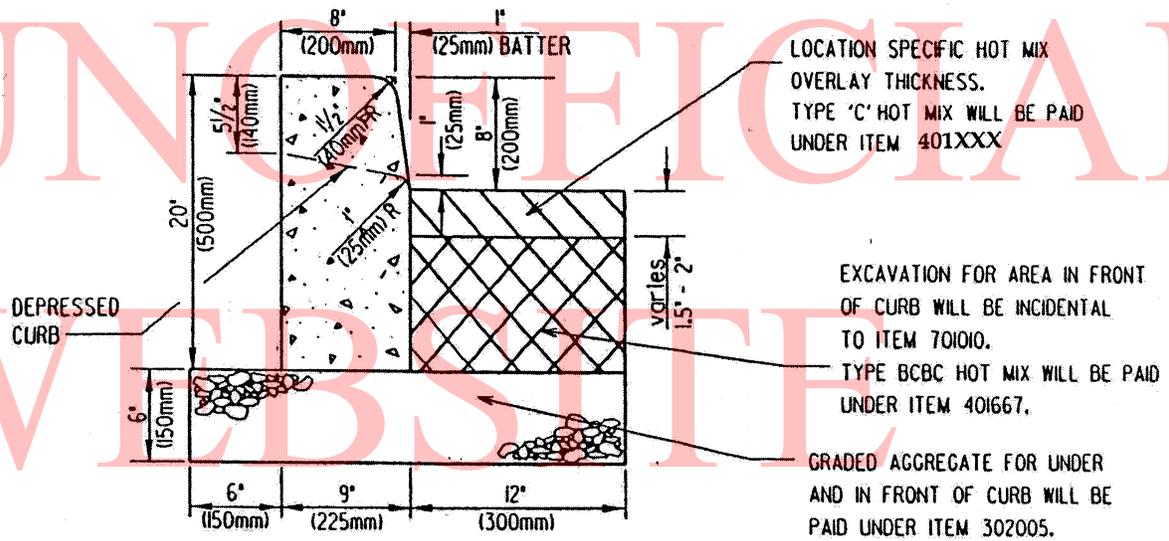
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NORTH MAINTENANCE

PHILADELPHIA PIKE FROM HESSLER LANE TO HOT-MIX PCC JOI

DETAILS SHEET



P.C.C. CURB TYPE I  
N.T.S.

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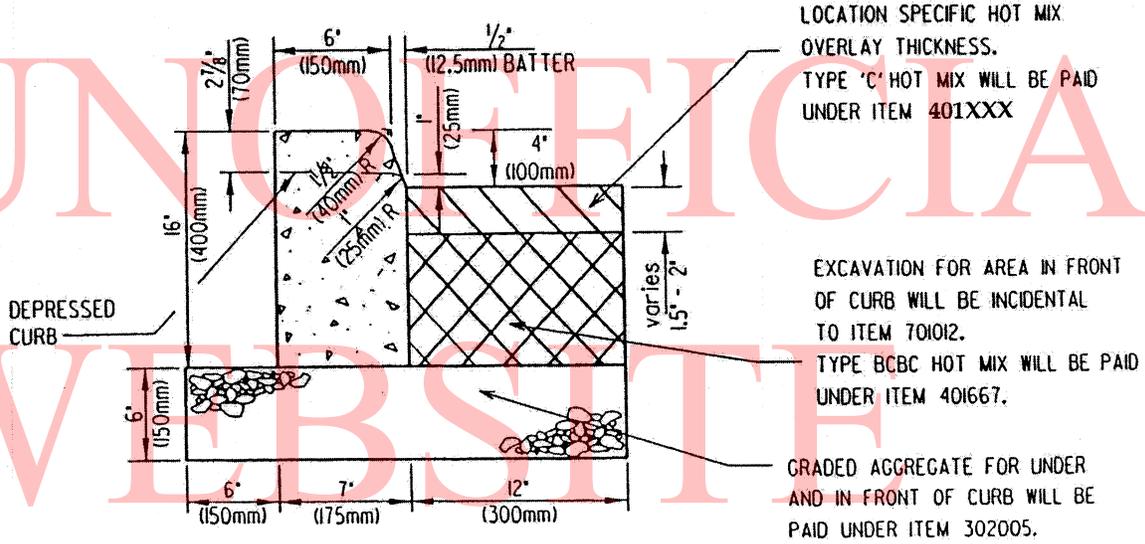
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NORTH MAINTENANCE

PHILADELPHIA PIKE FROM HESSLER LANE TO HOT-MIX PCC JOI

DETAILS SHEET



P.C.C. CURB TYPE 3  
N.T.S.

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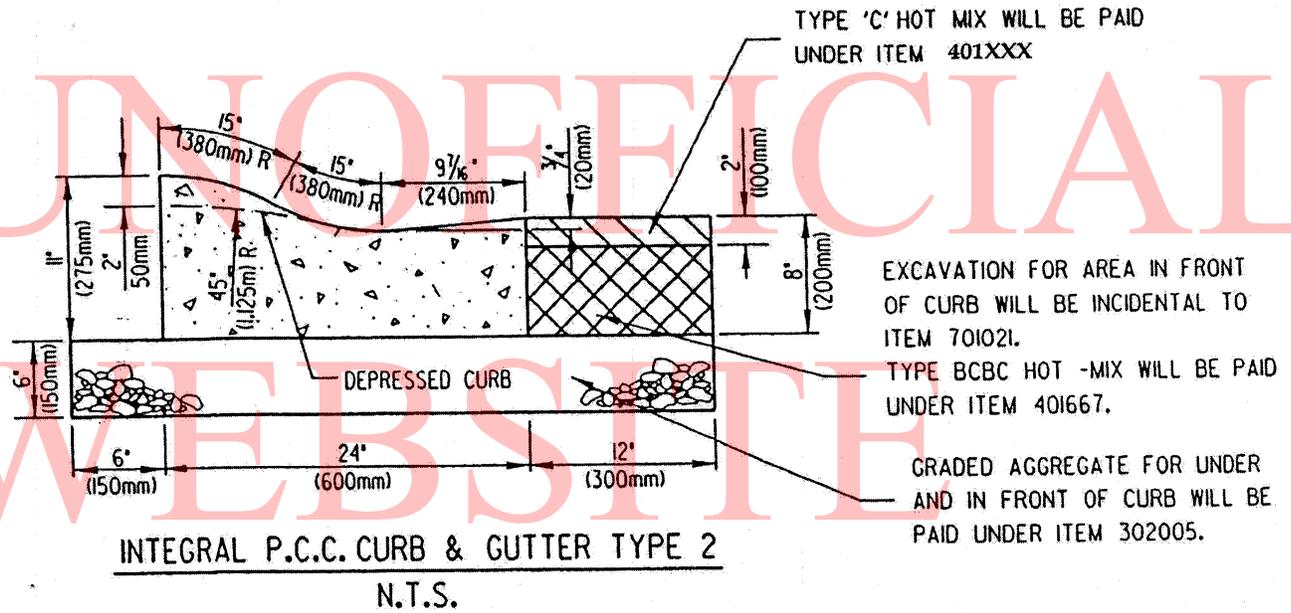
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NORTH MAINTENANCE

PHILADELPHIA PIKE FROM HESSLER LANE TO HOT-MIX PCC JOI

DETAILS SHEET



COPY



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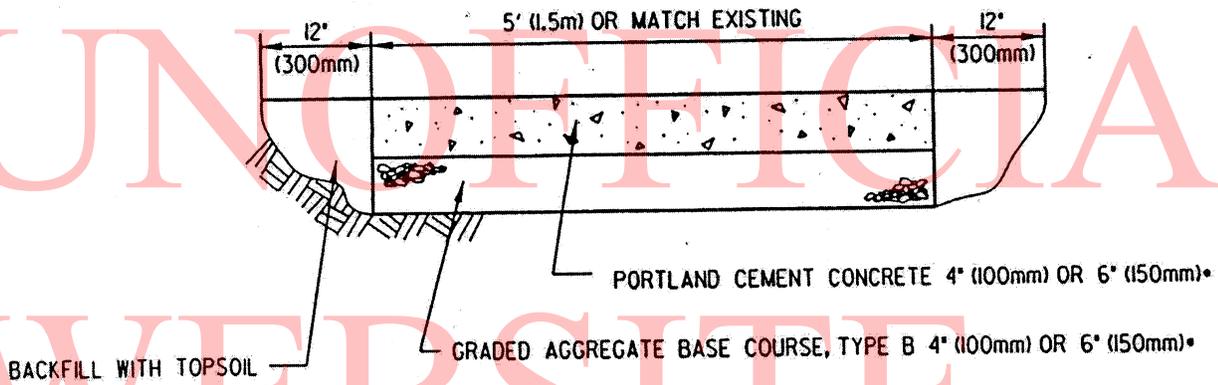
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NORTH MAINTENANCE

PHILADELPHIA PIKE FROM HESSLER LANE TO HOT-MIX PCC JOI

DETAILS SHEET



P.C.C. SIDEWALK  
N.T.S.

- NOTE: 6" (150mm) CONCRETE OVER 6" (150mm) GRADED AGGREGATE TO BE USED FOR DRIVEWAY PLACEMENT

DELAWARE DEPARTMENT OF TRANSPORTATION

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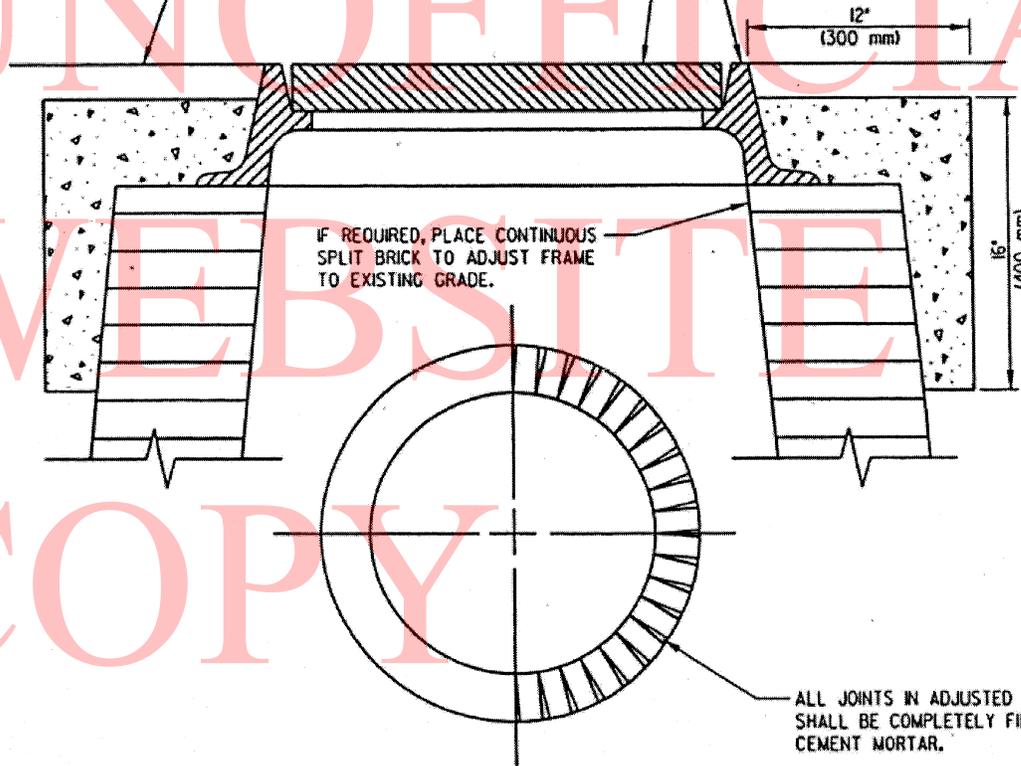
NORTH MAINTENANCE

PHILADELPHIA PIKE FROM HESSLER LANE TO HOT-MIX PCC JOI

DETAILS SHEET

REMOVE AND DISPOSE OF EXISTING FRAME AND COVER AS DIRECTED BY OWNER IF NOT UTILIZED IN THE ADJUSTMENT. PLACE NEW OR EXISTING FRAME AND COVER (AS REQUIRED), TO CORRECT ELEVATION AND RECOLLAR. NEW FRAME AND COVER (IF REQUIRED) TO BE PROVIDED BY OWNER.

REMOVE HOT MIX AND CONCRETE COLLAR FROM AROUND MANHOLE.



ADJUSTING AND REPAIRING MANHOLE

N.T.S.

NOTE: MANHOLES IN CONCRETE ROADWAYS SHALL BE SAWCUT FULL DEPTH TO THE SPECIFIED DIMENSION PRIOR TO ANY ADJUSTMENT BEING MADE. THE SAWCUTTING SHALL BE INCIDENTAL TO ITEM 710002.

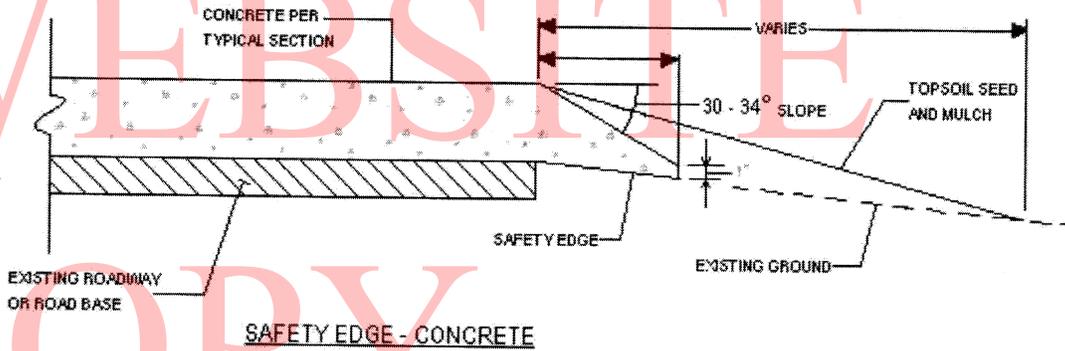
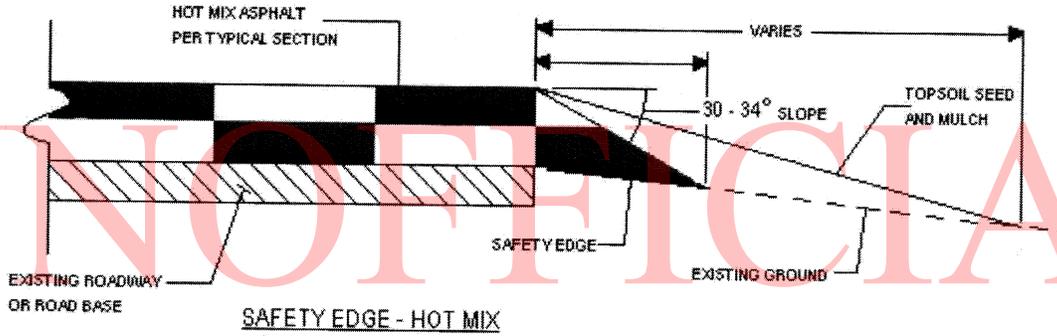
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NORTH MAINTENANCE PHILADELPHIA PIKE FROM HESSLER LANE TO HOT-MIX PCC JOI

DETAILS SHEET



GENERAL NOTES

1. THE SAFETY EDGE WILL BE CONSTRUCTED AS PART OF THE ROADWAY PAVEMENT. A SHOULDER WEDGE DEVICE WILL BE ADDED TO THE SCREED OF THE PAVING MACHINE.
2. SHORT SECTIONS OF HANDWORK WILL BE ALLOWED WHEN NECESSARY FOR TRANSITION AND TURNOUTS.
3. SITE PREPARATION AND ADDITIONAL EARTHWORK REQUIRED TO CONSTRUCT THE SAFETY EDGE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.

SAFETY EDGE DETAIL

**DELAWARE DEPARTMENT OF TRANSPORTATION**

**CONTRACT NUMBER- T201006111**

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**NORTH MAINTENANCE**

**PHILADELPHIA PIKE FROM HESSLER LANE TO HOT-MIX PCC JOI**

**DETAILS SHEET**

**Table 6G-1. Vertical Difference  
(DelDOT MUTCD Only)**

Type of Vertical Difference	Type of Direction	Height of Vertical Difference			
		1" (25mm) or less	greater than 1" (25mm) to 2" (50mm)	greater than 2" (50mm) to 6" (150mm)	greater than 6" (150mm)
Longitudinal less than 12 FT (3.7m) from edge of Travelway.	Standard	No channelizing devices required.	For differences along or between travelways, the UNEVEN LANES (W8-11) sign shall be used.  For differences between the travelway and a shoulder, or at the edge of pavement less than 10 FT (3m) from the travelway, the LOW SHOULDER (W8-9) sign shall be used.	At the end of the work day, a fillet of material, a wedge of gravel, or other suitable material as directed by the Chief Traffic Engineer or designee shall be placed in a manner that will provide stability for errant vehicles. This material shall be placed no steeper than a 4 to 1 slope.  Temporary traffic barrier shall be used if fillet cannot be placed.  Drums shall be used throughout vertical difference condition, until fillet is placed. (1) Warning signs shall be used.	Temporary traffic barrier shall be used.  Work area shall be limited to distances of not more than 1,000 FT (305m). (1)
	Guidance		Wedge not required, however, vertical difference should be eliminated within 5 calendar days.  Drums should be used throughout vertical difference condition.  If there is no shoulder or the shoulder is less than 4' wide, a fillet of material must be placed by the end of each work day.  Work area should be limited to distances of not more than 1,000 FT (305m). (1)	Cases should be used to determine additional devices required for specific operations.  Work area should be limited to distances of not more than 1,000 FT (305m). (1)	Cases should be used to determine additional devices required for specific operations.
Longitudinal from 12 FT (3.7m) to 30 FT (9.1m) from edge of Travelway. (2),(3)	Standard	No channelizing devices required.	No channelizing devices required.	Drums shall be used throughout vertical difference condition. (2)	Drums shall be used throughout vertical difference condition. (2)
Transverse	Standard	No channelizing devices required.	BUMP (W8-1) or DIP (W8-2) sign shall be used.	Ramp with Bituminous Temporary Roadway Material at a slope of 20 to 1 or flatter.	Ramp with Bituminous Temporary Roadway Material at a slope of 20 to 1 or flatter.

(1) Unless otherwise directed by the Chief Traffic Engineer or designee.

(2) No channelizing devices are required if the vertical difference is:

- outside right-of-way.
- behind guardrail, barrier or curb.

(3) No channelizing devices are required if the vertical difference is further than 30 FT (9.1m) from the edge of roadway.

The edge of the travelway shall be defined as the white stripe. If there is no white line, the curb or the edge of pavement shall be the edge of travelway.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201006111

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NORTH  
MAINTENANCE

PAVEMENT & REHABILITATION, NORTH XI, 2010

LOCATION 1 24(COMMONWEALTH AVE INTERSECTION IMPROVEMENTS) FROM TO

LENGTH 213.36 m 700 L.F. AADT 17287

GENERAL IMPROVEMENTS

CONSTRUCT SIDEWALK, CURB RAMPS, CURB AND ISLANDS

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 1

202000	EXCAVATION AND EMBANKMENT	40.00 C.Y.
302005	GRADED AGGREGATE BASE COURSE, TYPE B	260.00 TON
401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	130.00 TON
401833	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22, (NON- CARBONATE STONE)	180.00 TON
406001	HOT-MIX PATCHING	2,400.00 SY-IN
701010	PORTLAND CEMENT CONCRETE CURB, TYPE 1	730.00 L.F.
701012	PORTLAND CEMENT CONCRETE CURB, TYPE 3	80.00 L.F.
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	60.00 L.F.
701022	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3	30.00 L.F.
701505	P.C.C. PARKING BUMPER	11.00 EACH
705001	P.C.C. SIDEWALK, 4"	3,500.00 S.F.
705002	P.C.C. SIDEWALK, 6"	1,160.00 S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	60.00 S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	1.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	1.00 EACH
727554	RELOCATE FENCES AND GATES	1.00 L.S.
732004	TOPSOIL (TON)	60.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	430.00 S.Y.
735534	SOIL RETENTION BLANKET MULCH, TYPE 4	430.00 S.Y.
743007	** TRAFFIC OFFICERS	300.00 HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	30.00 EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	900.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	90.00 HOUR
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	1,100.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	4,300.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	1,100.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	4,300.00 L.F.

DELAWARE DEPARTMENT OF TRANSPORTATION

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NORTH  
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PAVEMENT & REHABILITATION, NORTH XI, 2010

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LOCATION 1                    24(COMMONWEALTH AVE INTERSECTION IMPROVEMENTS) FROM TO

LENGTH            213.36 m                    700 L.F.            AADT    17287

**GENERAL IMPROVEMENTS**

CONSTRUCT SIDEWALK, CURB RAMPS, CURB AND ISLANDS

**COMMENTS:**

Please see attached sheets for comments

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**MATERIAL ESTIMATE FOR LOCATION 1**

748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 10"	50.00 L.F.
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	580.00 S.Y.
760507	PROFILE MILLING, HOT-MIX	2,500.00 SY-IN
762001	SAW CUTTING, HOT MIX	1,100.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	50.00 L.F.
763501	CONSTRUCTION ENGINEERING	1.00 L.S.

\*\* DENOTES FIXED PRICE ITEM

COPY

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LOCATION 1 24(COMMONWEALTH AVE INTERSECTION IMPROVEMENTS) FROM TO

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**COMMENTS:**

Restricted Work Hours: 8:00 AM to 4:00 PM

Recommended Traffic Control: Case #7 - Roadway  
Case #3 - Shoulder Closure  
Case #16 - Sidewalk

Curb Ramp Locations:

Entrance and Driveway Locations:

No entrance and driveway surcharge at this location

Manhole Adjustments:

1 - DelDOT

See pages 30A - 30G for information and details

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PAVEMENT & REHABILITATION, NORTH XI, 2010

LOCATION 2                    24(PHILADELPHIA PIKE) FROM HESSLER LANE TO HOT-MIX PCC JOINT AT  
I-495 (RD60)

LENGTH      3557.016 m                    11670 L.F.                    AADT    18760

GENERAL IMPROVEMENTS

2" PROFILE MILL, HOT-MIX PATCHING, 2" WMA SUPERPAVE TYPE C, 160 GYR., PG 76-22

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 2

302005	GRADED AGGREGATE BASE COURSE, TYPE B	50.00 TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	440.00 TON
401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	440.00 TON
401833	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22, (NON-CARBONATE STONE)	9,000.00 TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	100.00 TON
406001	HOT-MIX PATCHING	8,000.00 SY-IN
701010	PORTLAND CEMENT CONCRETE CURB, TYPE 1	560.00 L.F.
705001	P.C.C. SIDEWALK, 4"	2,600.00 S.F.
705002	P.C.C. SIDEWALK, 6"	1,100.00 S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	1,000.00 S.F.
705008	CURB RAMP, TYPE 1	4,730.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	4,600.00 S.F.
705010	CURB RAMP, TYPE 5	670.00 S.F.
708500	REPLACING CATCH BASIN GRATES	13.00 EACH
708504	REPLACING CATCH BASIN FRAMES	13.00 EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	58.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	88.00 EACH
727502	ADJUSTING EXISTING MONUMENT BOX	3.00 EACH
743003	ARROW PANELS, TYPE C	100.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	20.00 EA-DY
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	100.00 EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	4,600.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	460.00 HOUR
744505	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	10.00 EACH
744519	RELOCATION OF EXISTING JUNCTION WELL	3.00 EACH
744520	CONDUIT JUNCTION WELL, TYPE 1, 20" X 20" PRECAST CONCRETE	35.00 EACH
744523	CONDUIT JUNCTION WELL, TYPE 4, 20" X 42 1/2" PRECAST CONCRETE	8.00 EACH

**DELAWARE DEPARTMENT OF TRANSPORTATION**

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**PAVEMENT & REHABILITATION, NORTH XI, 2010**

**LOCATION 2                    24(PHILADELPHIA PIKE) FROM HESSLER LANE TO HOT-MIX PCC JOINT AT I-495 (RD60)**

**LENGTH            3557.016 m                    11670 L.F.                    AADT    18760**

**GENERAL IMPROVEMENTS**

2" PROFILE MILL, HOT-MIX PATCHING, 2" WMA SUPERPAVE TYPE C, 160 GYR., PG 76-22

**COMMENTS:**

Please see attached sheets for comments

**MATERIAL ESTIMATE FOR LOCATION 2**

744525	REMOVAL OF EXISTING JUNCTION WELL	12.00 EACH
745527	SUPPLY OF 2 1/2" GALVANIZED STEEL CONDUIT	3,000.00 L.F.
745528	SUPPLY OF 2" GALVANIZED STEEL CONDUIT	160.00 L.F.
745529	SUPPLY OF 1 1/2" GALVANIZED STEEL CONDUIT	205.00 L.F.
745542	INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT-DIRECTIONAL BORE	1,830.00 L.F.
745543	INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT-OPEN CUT	775.00 L.F.
745544	INSTALLATION OF CONDUIT IN UNPAVED TRENCH	585.00 L.F.
745551	REMOVAL OF CONDUIT FROM WOOD POLE	15.00 L.F.
746774	SUPPLY AND INSTALLATION OF LOOP DETECTOR WIRE	4,425.00 L.F.
746776	LOOP DETECTOR SPLICE	69.00 EACH
746830	REMOVAL OF CONCRETE POLE BASES AND CABINET FOUNDATIONS	16.00 C.Y.
746847	POLE BASE, TYPE 3	12.00 EACH
746850	POLE BASE, TYPE 4	49.00 EACH
746852	POLE BASE, TYPE 6	1.00 EACH
747506	CABINET BASE	8.00 EACH
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	7,800.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	130,000.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	15,600.00 S.F.
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	4,560.00 L.F.
748530	REMOVAL OF PAVEMENT STRIPING	500.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	65,000.00 L.F.
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	48.00 EACH
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	460.00 S.Y.
760507	PROFILE MILLING, HOT-MIX	164,000.00 SY-IN
762001	SAW CUTTING, HOT MIX	1,200.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	200.00 L.F.

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PAVEMENT & REHABILITATION, NORTH XI, 2010

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LOCATION 2            24(PHILADELPHIA PIKE) FROM HESSLER LANE TO HOT-MIX PCC JOINT AT  
I-495 (RD60)

LENGTH    3557.016 m                    11670 L.F.            AADT    18760

**GENERAL IMPROVEMENTS**

2" PROFILE MILL, HOT-MIX PATCHING, 2" WMA SUPERPAVE TYPE C, 160 GYR., PG 76-22

**COMMENTS:**

Please see attached sheets for comments

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MATERIAL ESTIMATE FOR LOCATION 2

763621

CONSTRUCTION ENGINEERING, RE-SURFACING

1.00 L.S.

\*\* DENOTES FIXED PRICE ITEM

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NORTH  
MAINTENANCE

PAVEMENT & REHABILITATION, NORTH XI, 2010

LOCATION 2 24(PHILADELPHIA PIKE) FROM HESSLER LANE TO HOT-MIX PCC JOINT AT I-495  
(RD60)

COMMENTS:

Restricted work Hours: 8:00 AM to 4:00 PM

Recommended Traffic Control: Case #7 - Roadway  
Case #3 - Shoulders  
Case #16 - Sidewalk

Curb Ramp Locations:

East Side

Hessler Lane NE corner - 1  
Hessler Lane SE corner - 1  
Walnut Lane NE corner - 1 signalized  
Walnut Lane SE corner - 1 signalized  
Holly Oak Lane NE corner - 1 signalized  
Holly Oak Lane SE corner - 1 signalized  
Delaware Ave. NE corner - 1  
Delaware Ave. SE corner - 1  
Pennsylvania Ave. NE corner - 1  
Pennsylvania Ave. SE corner - 1  
Winding Lane NE corner - 1  
Winding Lane SE corner - 1  
Rolling Rd. NE corner - 1 signalized  
Rolling Rd. SE corner - 1 signalized  
Lexington Dr. NE corner - 1  
Lexington Dr. SE corner - 1  
Hillside Rd. NE corner - 1  
Hillside Rd. SE corner - 1  
Grubb Landing Rd. NE corner - 1  
Grubb Landing Rd. SE corner - 1  
Princeton Ave. NE corner - 1  
Princeton Ave. SE corner - 1  
Stockdale Ave. NE corner - 1  
Stockdale Ave. SE corner - 1  
Gov. Printz Blvd. NE corner - 1 signalized  
Gov. Printz Blvd. SE corner - 1 signalized  
Wiltshire Rd. NE corner - 1 signalized  
Wiltshire Rd. SE corner - 1 signalized  
Manor Ave. NE corner - 1 signalized  
Manor Ave. SE corner - 1 signalized  
Myrtle Ave. NE corner - 1 signalized  
Myrtle Ave. SE corner - 1 signalized  
#1320 - 2  
#1400 Lab Corp - 3  
#1600 NE corner - 1  
Governor Printz Blvd. - 2  
Post Office South side - 1  
Archmere Academy at gated entrance - 2

West Side

Darley Rd. NW corner - 1 signalized  
Darley Rd. SW corner - 1 signalized  
Seminole Ave. NW corner - 1 signalized  
Seminole Ave. SW corner - 1 signalized  
Franklin Ave. NW corner - 1  
Franklin Ave. SW corner - 1  
Lawson Ave. NW corner - 1

NORTH  
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PAVEMENT & REHABILITATION, NORTH XI, 2010

LOCATION 2 24(PHILADELPHIA PIKE) FROM HESSLER LANE TO HOT-MIX PCC JOINT AT I-495  
(RD60)

Lawson Ave. SW corner - 1  
 Commonwealth Ave. NW corner - 1 signalized  
 Commonwealth Ave. North side - 1 signalized  
 Commonwealth Ave. Center - 1 signalized  
 Commonwealth Ave. South side - 1 signalized  
 Commonwealth Ave. SW corner - 1 signalized  
 Pennsylvania Ave. NW corner - 1  
 Pennsylvania Ave. SW corner - 1  
 Delaware Ave. NW corner - 1  
 Delaware Ave SW corner - 1  
 Harvey Rd. NW corner - 1 signalized  
 Harvey Rd. SW corner - 1 signalized  
 Riverview Rd. NW corner - 1  
 Riverview Rd. SW corner - 1  
 Maple Rd. NW corner - 1 signalized  
 Maple Rd. SW corner - 1 signalized  
 Delaware Ave. NW corner - 1  
 Delaware Ave. SW corner - 1  
 Holly Oak Rd. NW corner - 1 signalized  
 Holly Oak Rd. SW corner - 1 signalized  
 Perkins Ave. NW corner - 1  
 Perkins Ave. SW corner - 1  
 Silverside Rd. NW corner - 1 signalized  
 Silverside Rd. SW corner - 1 signalized  
 School - 4  
 Meinke Muffler - 2  
 Burger King - 4  
 Arbys - 2  
 Super Fresh Store - 2  
 Dollar Tree - 2  
 Mr. Pasta - 4

PLEASE NOTE: TOPSOIL AND SEEDING AROUND THE CURB RAMPS WILL BE INCIDENTAL TO THE CURB RAMP ITEMS.

Entrance and Driveway Locations:

East Side

Hessler Lane 20'  
 Walnut Lane 40'  
 Holly Oak Rd. 25'  
 Delaware Ave. 25'  
 Pennsylvania Ave. 25'  
 Winding Lane 25'  
 Rolling Rd. 35'  
 Lexington Dr. 10'  
 Hillside rd. 25'  
 Grubb Landing Rd. 20'  
 Princeton Ave. 25'  
 Stockdale Ave. 25'  
 Gov. Printz Blvd. Entrance 35'  
 Gov. Printz Blvd. Exit 50'  
 Wiltshire Rd. 25'  
 Manor Ave. 25'  
 Myrtle Ave. 25'

West Side

Harley Rd 25'

NORTH  
MAINTENANCE

PAVEMENT & REHABILITATION, NORTH XI, 2010

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LOCATION 2 24(PHILADELPHIA PIKE) FROM HESSLER LANE TO HOT-MIX PCC JOINT AT I-495  
(RD60)

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Seminole Ave. 45'  
Franklin Ave. 20'  
Lawson Ave. 25'  
Commonwealth Ave. NB right lane 55'  
Commonwealth Ave. WB left lane 75'  
Commonwealth Ave. EB left lane 75'  
Commonwealth Ave. EB right lane 55'  
Pennsylvania Ave. 25'  
Delaware Ave. 30'  
Harvey Rd. 15'  
Riverview Rd. 25'  
Maple Ave. 50'  
Delaware Ave. 25'  
Holly Oak Rd. 15'  
Perkins Ave. 25'  
Silverside Rd. 30'

Manhole Adjustments:

37 - NCCDSS  
51 - Verizon  
21 - Water valves by others  
10 - Delmarva Gas valves by others  
9 - Delmarva Gas manholes by others

General Note:

Post office, several churches and schools at this loction

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NORTH PAVEMENT & REHABILITATION, NORTH XI, 2010  
MAINTENANCE

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CONTRACT QUANTITIES SUMMARY SHEET

202000	EXCAVATION AND EMBANKMENT	40.00 C.Y.
302005	GRADED AGGREGATE BASE COURSE, TYPE B	310.00 TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE	440.00 TON
401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	570.00 TON
401833	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22, (NON- CARBONATE STONE)	9,180.00 TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	100.00 TON
406001	HOT-MIX PATCHING	10,400.00 SY-IN
701010	PORTLAND CEMENT CONCRETE CURB, TYPE 1	1,290.00 L.F.
701012	PORTLAND CEMENT CONCRETE CURB, TYPE 3	80.00 L.F.
701021	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	60.00 L.F.
701022	INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3	30.00 L.F.
701505	P.C.C. PARKING BUMPER	11.00 EACH
705001	P.C.C. SIDEWALK, 4"	6,100.00 S.F.
705002	P.C.C. SIDEWALK, 6"	2,260.00 S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	1,060.00 S.F.
705008	CURB RAMP, TYPE 1	4,730.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	4,600.00 S.F.
705010	CURB RAMP, TYPE 5	670.00 S.F.
708500	REPLACING CATCH BASIN GRATES	13.00 EACH
708504	REPLACING CATCH BASIN FRAMES	13.00 EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	59.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	89.00 EACH
727502	ADJUSTING EXISTING MONUMENT BOX	3.00 EACH
727554	RELOCATE FENCES AND GATES	1.00 L.S.
732004	TOPSOIL (TON)	60.00 TON
734013	PERMANENT GRASS SEEDING, DRY GROUND	430.00 S.Y.
735534	SOIL RETENTION BLANKET MULCH, TYPE 4	430.00 S.Y.
743003	ARROWPANELS, TYPE C	100.00 EA-DY

DELAWARE DEPARTMENT OF TRANSPORTATION

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NORTH PAVEMENT & REHABILITATION, NORTH XI, 2010  
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CONTRACT QUANTITIES SUMMARY SHEET

743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	20.00 EA-DY
743007	** TRAFFIC OFFICERS	300.00 HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	130.00 EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	5,500.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	550.00 HOUR
744505	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	10.00 EACH
744519	RELOCATION OF EXISTING JUNCTION WELL	3.00 EACH
744520	CONDUIT JUNCTION WELL, TYPE 1, 20" X 20" PRECAST CONCRETE	35.00 EACH
744523	CONDUIT JUNCTION WELL, TYPE 4, 20" X 42 1/2" PRECAST CONCRETE	8.00 EACH
744525	REMOVAL OF EXISTING JUNCTION WELL	12.00 EACH
745527	SUPPLY OF 2 1/2" GALVANIZED STEEL CONDUIT	3,000.00 L.F.
745528	SUPPLY OF 2" GALVANIZED STEEL CONDUIT	160.00 L.F.
745529	SUPPLY OF 1 1/2" GALVANIZED STEEL CONDUIT	205.00 L.F.
745542	INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT-DIRECTIONAL BORE	1,830.00 L.F.
745543	INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT-OPEN CUT	775.00 L.F.
745544	INSTALLATION OF CONDUIT IN UNPAVED TRENCH	585.00 L.F.
745551	REMOVAL OF CONDUIT FROM WOOD POLE	15.00 L.F.
746774	SUPPLY AND INSTALLATION OF LOOP DETECTOR WIRE	4,425.00 L.F.
746776	LOOP DETECTOR SPLICE	69.00 EACH
746830	REMOVAL OF CONCRETE POLE BASES AND CABINET FOUNDATIONS	16.00 C.Y.
746847	POLE BASE, TYPE 3	12.00 EACH
746850	POLE BASE, TYPE 4	49.00 EACH
746852	POLE BASE, TYPE 6	1.00 EACH
747506	CABINET BASE	8.00 EACH
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	8,900.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	134,300.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	16,700.00 S.F.
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	4,560.00 L.F.

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NORTH PAVEMENT & REHABILITATION, NORTH XI, 2010  
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CONTRACT QUANTITIES SUMMARY SHEET

748530	REMOVAL OF PAVEMENT STRIPING	500.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	69,300.00 L.F.
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 10"	50.00 L.F.
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	48.00 EACH
758000	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	1,040.00 S.Y.
760507	PROFILE MILLING, HOT-MIX	166,500.00 SY-IN
762001	SAW CUTTING, HOT MIX	2,300.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	250.00 L.F.
763000	INITIAL EXPENSE	LUMP SUM
763501	CONSTRUCTION ENGINEERING	1.00 L.S.
763621	CONSTRUCTION ENGINEERING, RE-SURFACING	1.00 L.S.
763643	MAINTENANCE OF TRAFFIC, ALL INCLUSIVE	LUMP SUM

\*\* DENOTES FIXED PRICE ITEM

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**EXISTING SYMBOLS**

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

UTILITY	
	SOIL BORING LOCATION
	UTILITY TEST HOLE LOCATION
	CABLE TV DISTRIBUTION BOX
	ELECTRIC MANHOLE
	ELECTRIC TRANSFORMER
	POLE MOUNTED LUMINAIRE
	GAS MANHOLE
	GAS METER
	GAS VALVE
	GAS PUMP - SERVICE STATION
	RAILROAD TRACKS
	SANITARY SEWER MANHOLE
	SANITARY SEWER VALVE
	SANITARY SEWER VENT OR CLEANOUT
	SEPTIC DRAIN FIELD
	TELEPHONE BOOTH
	TELEPHONE MANHOLE
	TELEPHONE TEST POINT
	TRAFFIC - CONDUIT JUNCTION WELL
	TRAFFIC - LIGHT POLE AND BASE
	TRAFFIC - PEDESTRIAN POLE & BASE
	TRAFFIC - SIGNAL CABINET & BASE
	TRAFFIC - SIGNAL POLE AND BASE
	UTILITY BOX
	UTILITY POLE GUY WIRE ANCHOR
	UTILITY POLE
	WATER - FIRE HYDRANT
	WATER METER
	WATER VALVE
	WELL HEAD

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

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

SURVEY CONTROL & MONUMENTATION	
	SURVEY BENCHMARK LOCATION
	SURVEY TIE POINT LOCATION
	SURVEY TRAVERSE POINT
	POINT OF CURVATURE OR TANGENCY
	POINT OF INTERSECTING TANGENTS
	PROPERTY MARKER - CONCRETE MON.
	PROPERTY MARKER - IRON PIPE

UTILITY COMPANY FACILITIES	
	EXISTING UTILITY NAME

**PROPOSED SYMBOLS**

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

CONSTRUCTION PHASING SYMBOLS	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
	CONSTRUCTION WARNING SIGN LOCATION
	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	PHASING TRAFFIC FLOW ARROW

LANDSCAPING	
	SHRUBBERY
	CONIFEROUS TREE
	DECIDUOUS TREE

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

IDENTIFIERS	
	ADJUST BY CONTRACTOR
	ADJUST BY OTHERS
	CONCRETE SAFETY BARRIER
	CURB OR CURB & GUTTER
	CONVERT TO JUNCTION BOX
	CONVERT TO DRAINAGE MANHOLE
	CURB OPENING
	CURB RAMP / TYPE
	CURB RAMP / TYPE - WITHOUT SIDEWALK SURFACE DETECTABLE WARNING SYSTEM
	DRAINAGE INLET
	DO NOT DISTURB
	FLARED END SECTION
	FILTRATION STRUCTURE
	GUARDRAIL
	JUNCTION BOX
	LANDSCAPE PLANTINGS
	MANHOLE
	MONUMENT - RIGHT-OF-WAY
	PIPE
	RELOCATE BY CONTRACTOR
	RELOCATE BY OTHERS
	REMOVE BY CONTRACTOR
	REMOVE BY OTHERS
	SEDIMENT TRAP
	SILT FENCE
	UNDERDRAIN

PAVEMENT SECTIONS	
	PROFILE MILLING, 2" DEPTH 2" SUPERPAVE, TYPE C HOT-MIX
	COMMONWEALTH AVE. PATCH: 2" SUPERPAVE, TYPE C HOT-MIX 5.5" SUPERPAVE, TYPE B HOT-MIX 8" GRADED AGGREGATE BASE COURSE, TYPE B
	PHILADELPHIA PIKE PATCH: 2" SUPERPAVE, TYPE C HOT-MIX 3" SUPERPAVE, TYPE B HOT-MIX 8" SUPERPAVE, BCBC 8" GRADED AGGREGATE BASE COURSE, TYPE B

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

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

FINAL PLANS



ADDENDUMS / REVISIONS	

NOT TO SCALE

U.S. 13 AND  
COMMONWEALTH AVENUE  
INTERSECTION IMPROVEMENTS

CONTRACT T201006111	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: CC
	CHECKED BY: JP

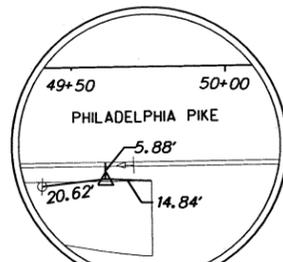
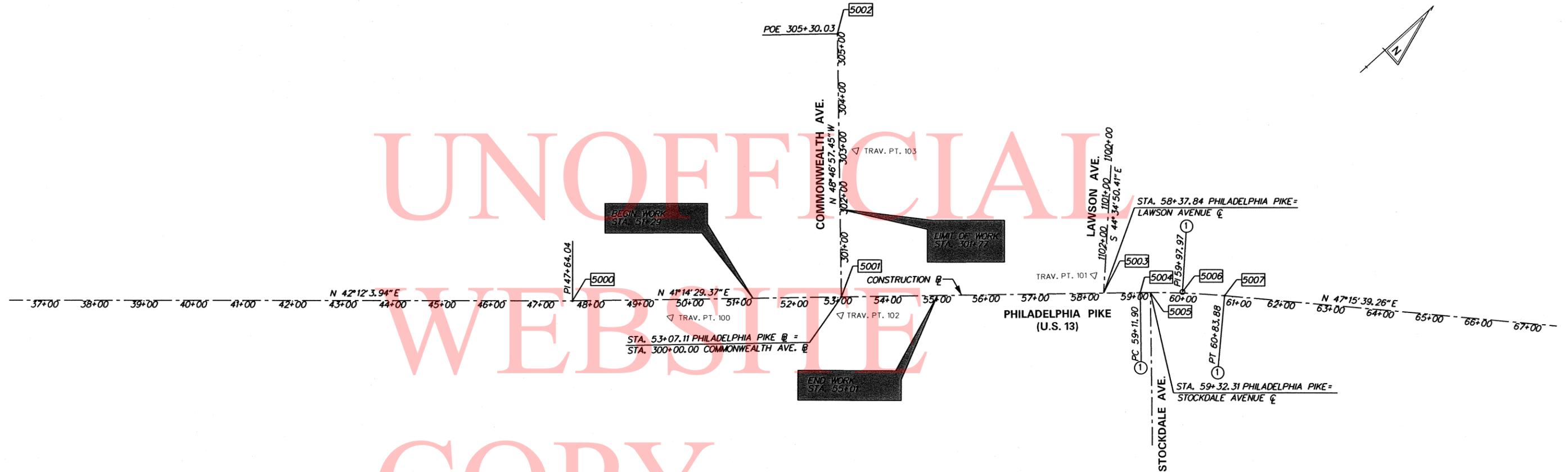
LEGEND	

SHEET NO. 2
TOTAL SHTS. 7

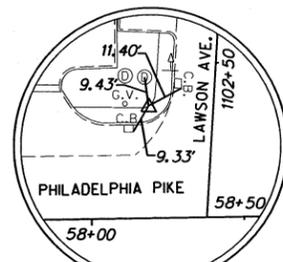
CONSTRUCTION ALIGNMENT CONTROL				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
5000	47+64.04	0.00	654729.5469	642909.0622
5001	53+07.11	0.00	655137.8982	643267.0694
5002	305+30.03	0.00	655487.1467	642868.3700
5003	58+37.84	0.00	655536.9796	643616.9496
5005	59+32.31	0.00	655607.9270	643679.3193

U.S. 13 HORIZONTAL / VERTICAL CONTROL DATA					
POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEVATION
100	49+60.75 (1)	36.19', RT. (1)	654853.6015	643065.9487	91.41
101	58+19.37 (1)	36.25', LT. (1)	655546.9871	643577.5172	88.74
102	53+04.96 (1)	36.61', RT. (1)	655112.1524	643293.1856	92.15
103	302+95.19 (2)	33.45', RT. (2)	655357.5713	643067.0649	95.12

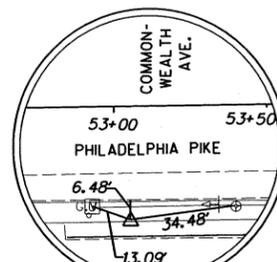
(1) MEASURED FROM PHILADELPHIA PIKE CONSTRUCTION BASELINE  
 (2) MEASURED FROM COMMONWEALTH AVENUE CONSTRUCTION BASELINE



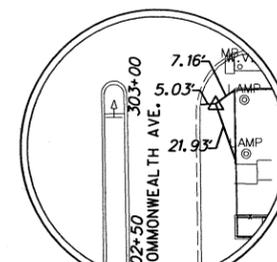
TRAVERSE POINT #100  
 NAIL IN CONC  
 N. T. S.



TRAVERSE POINT #101  
 NAIL IN CONC  
 N. T. S.



TRAVERSE POINT #102  
 PK NAIL IN SIDEWALK  
 N. T. S.



TRAVERSE POINT #103  
 PK NAIL IN SIDEWALK  
 N. T. S.

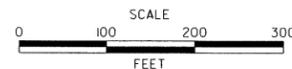
CIRCULAR CURVE NO. ①			
	STATION	NORTHING	EASTING
PC (	5004)	59+11.90	655592.6650
PI (	5006)	59+97.97	655657.3848
CC (	5008)	60+83.88	654513.4855
PT (	5007)	60+83.88	655715.7976
Element:	Circular		
Radius:		1637.0200	
Degree of Curvature (Arc):		6° 01' 09.8907" Right	
Length:		171.9830	
Tangent:		86.0707	
Chord:		171.9039	
Middle Ordinate:		2.2580	
External:		2.2611	
Tangent Direction:	N 41° 14' 29.3715" E		
Radial Direction:	S 48° 45' 30.6285" E		
Chord Direction:	N 44° 15' 04.3168" E		
Radial Direction:	S 42° 44' 20.7378" E		
Tangent Direction:	N 47° 15' 39.2622" E		

NOTE:  
 HORIZONTAL - PROJECT BASED ON THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83)  
 VERTICAL - PLAN ELEVATIONS ARE BASED ON N.G.S. SURVEY DATUM (NAVD 88)

FINAL PLANS



ADDENDUMS / REVISIONS



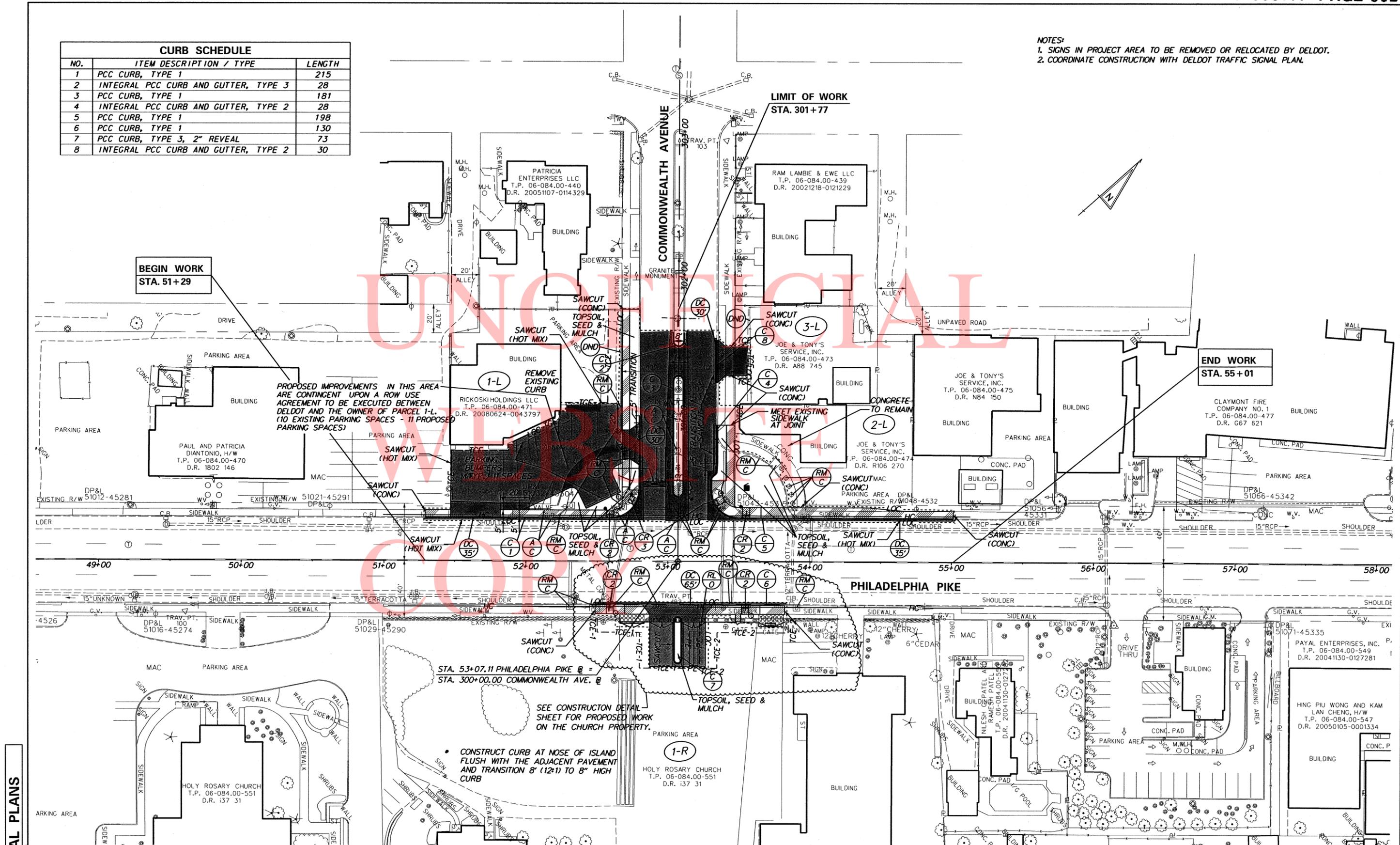
U.S. 13 AND  
 COMMONWEALTH AVENUE  
 INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	HORIZONTAL AND VERTICAL CONTROL
T201006111	DESIGNED BY: CC	
COUNTY	CHECKED BY: JP	
NEW CASTLE		

SHEET NO.	3
TOTAL SHTS.	7

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	PCC CURB, TYPE 1	215
2	INTEGRAL PCC CURB AND GUTTER, TYPE 3	28
3	PCC CURB, TYPE 1	181
4	INTEGRAL PCC CURB AND GUTTER, TYPE 2	28
5	PCC CURB, TYPE 1	198
6	PCC CURB, TYPE 1	130
7	PCC CURB, TYPE 3, 2" REVEAL	73
8	INTEGRAL PCC CURB AND GUTTER, TYPE 2	30

NOTES:  
 1. SIGNS IN PROJECT AREA TO BE REMOVED OR RELOCATED BY DELDOT.  
 2. COORDINATE CONSTRUCTION WITH DELDOT TRAFFIC SIGNAL PLAN.



PROPOSED IMPROVEMENTS IN THIS AREA ARE CONTINGENT UPON A ROW USE AGREEMENT TO BE EXECUTED BETWEEN DELDOT AND THE OWNER OF PARCEL 1-L. (10 EXISTING PARKING SPACES - 11 PROPOSED PARKING SPACES)

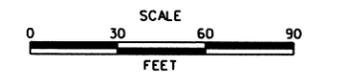
SEE CONSTRUCTION DETAIL SHEET FOR PROPOSED WORK ON THE CHURCH PROPERTY.

- CONSTRUCT CURB AT NOSE OF ISLAND FLUSH WITH THE ADJACENT PAVEMENT AND TRANSITION 8" (12:1) TO 8" HIGH CURB

FINAL PLANS



ADDENDUMS / REVISIONS



U.S. 13 AND COMMONWEALTH AVENUE INTERSECTION IMPROVEMENTS

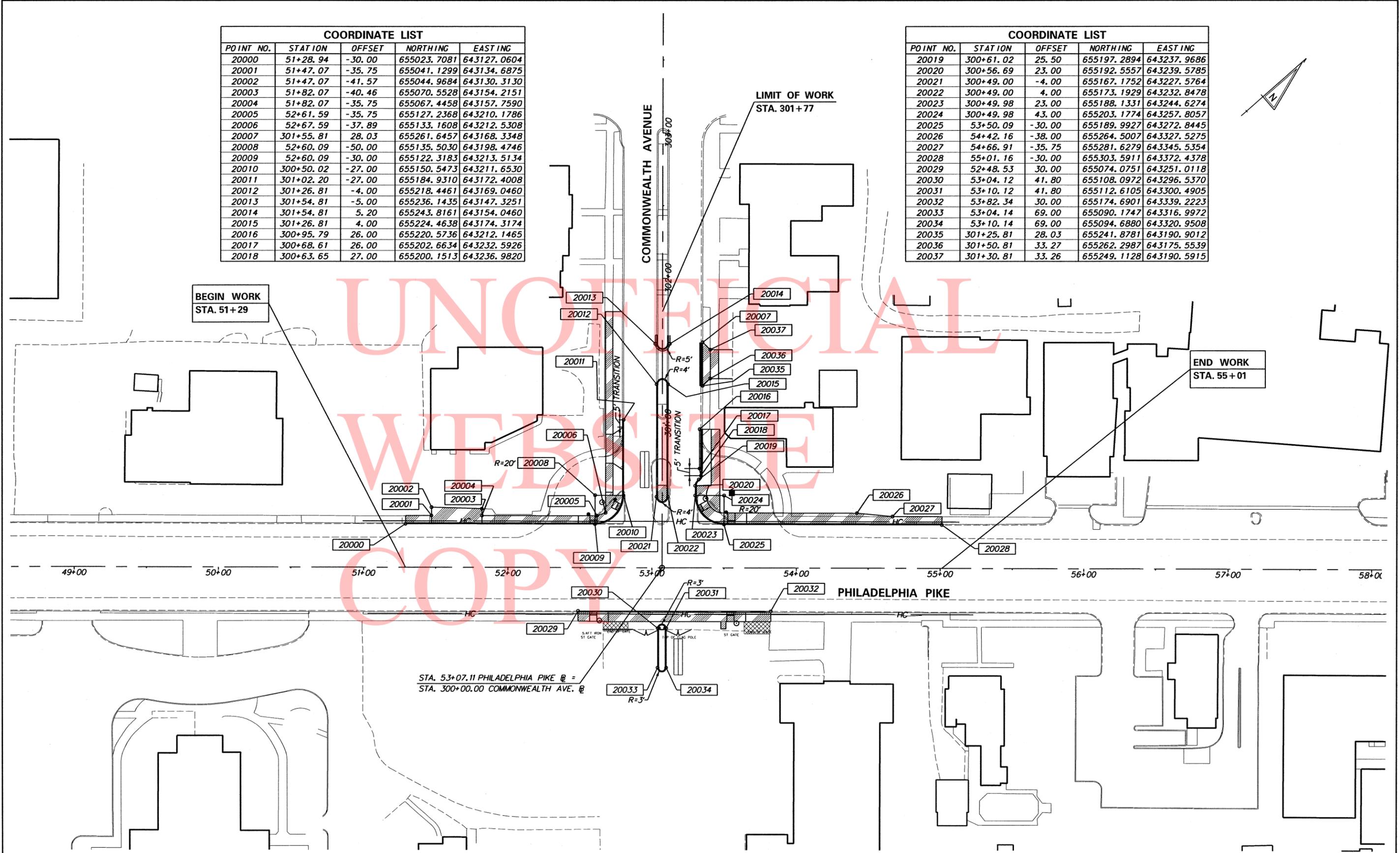
CONTRACT	BRIDGE NO.
T201006111	
COUNTY	DESIGNED BY: CC
NEW CASTLE	CHECKED BY: JP

CONSTRUCTION PLAN

SHEET NO.	4
TOTAL SHTS.	7

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
20000	51+28.94	-30.00	655023.7081	643127.0604
20001	51+47.07	-35.75	655041.1299	643134.6875
20002	51+47.07	-41.57	655044.9684	643130.3130
20003	51+82.07	-40.46	655070.5528	643154.2151
20004	51+82.07	-35.75	655067.4458	643157.7590
20005	52+61.59	-35.75	655127.2368	643210.1786
20006	52+67.59	-37.89	655133.1608	643212.5308
20007	301+55.81	28.03	655261.6457	643168.3348
20008	52+60.09	-50.00	655135.5030	643198.4746
20009	52+60.09	-30.00	655122.3183	643213.5134
20010	300+50.02	-27.00	655150.5473	643211.6530
20011	301+02.20	-27.00	655184.9310	643172.4008
20012	301+26.81	-4.00	655218.4461	643169.0460
20013	301+54.81	-5.00	655236.1435	643147.3251
20014	301+54.81	5.20	655243.8161	643154.0460
20015	301+26.81	4.00	655224.4638	643174.3174
20016	300+95.79	26.00	655220.5736	643212.1465
20017	300+68.61	26.00	655202.6634	643232.5926
20018	300+63.65	27.00	655200.1513	643236.9820

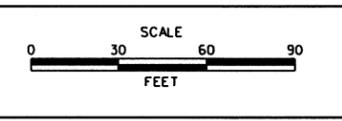
COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
20019	300+61.02	25.50	655197.2894	643237.9686
20020	300+56.69	23.00	655192.5557	643239.5785
20021	300+49.00	-4.00	655167.1752	643227.5764
20022	300+49.00	4.00	655173.1929	643232.8478
20023	300+49.98	23.00	655188.1331	643244.6274
20024	300+49.98	43.00	655203.1774	643257.8057
20025	53+50.09	-30.00	655189.9927	643272.8445
20026	54+42.16	-38.00	655264.5007	643327.5275
20027	54+66.91	-35.75	655281.6279	643345.5354
20028	55+01.16	-30.00	655303.5911	643372.4378
20029	52+48.53	30.00	655074.0751	643251.0118
20030	53+04.12	41.80	655108.0972	643296.5370
20031	53+10.12	41.80	655112.6105	643300.4905
20032	53+82.34	30.00	655174.6901	643339.2223
20033	53+04.14	69.00	655090.1747	643316.9972
20034	53+10.14	69.00	655094.6880	643320.9508
20035	301+25.81	28.03	655241.8781	643190.9012
20036	301+50.81	33.27	655262.2987	643175.5539
20037	301+30.81	33.26	655249.1128	643190.5915



FINAL PLANS

**DELAWARE DEPARTMENT OF TRANSPORTATION**

ADDENDUMS / REVISIONS

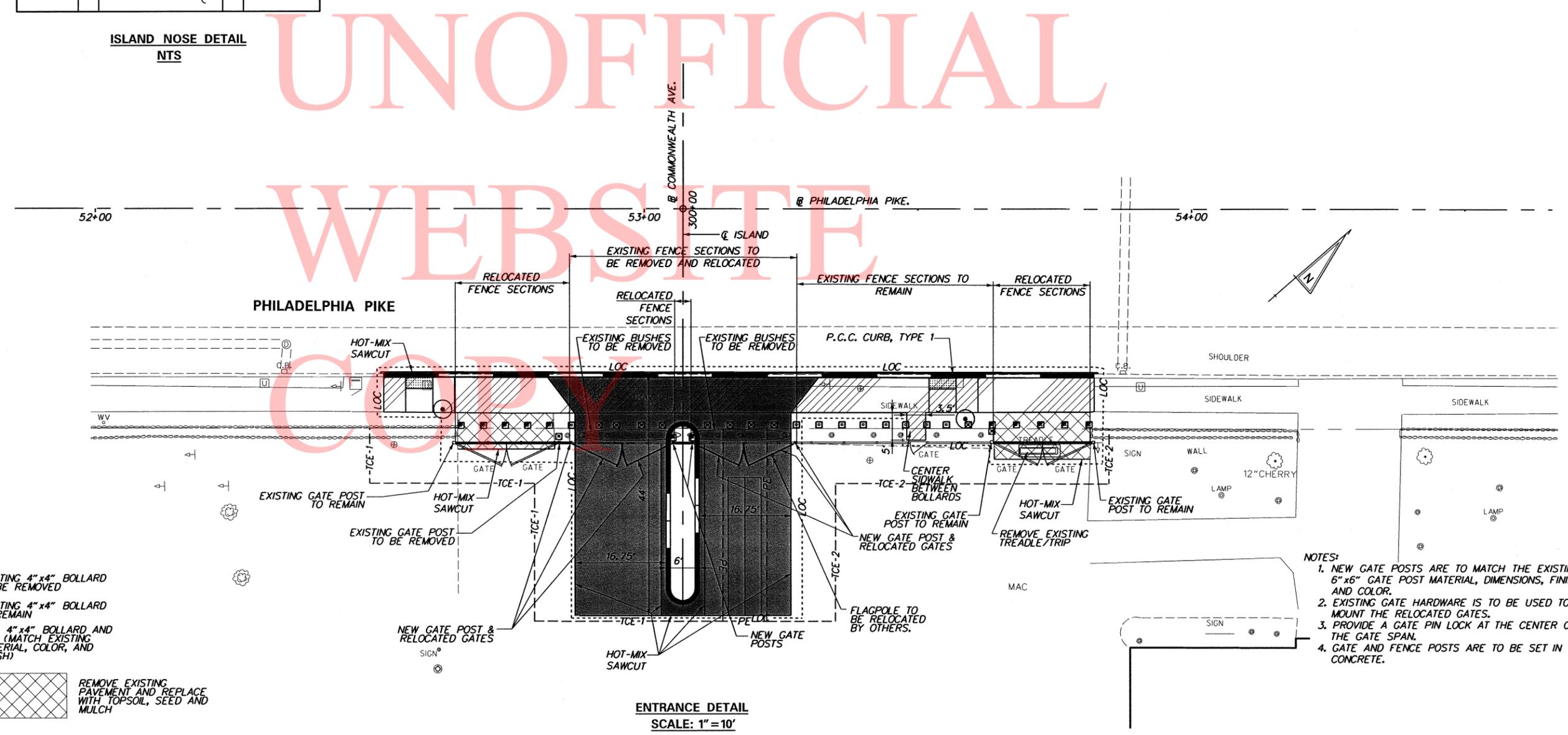
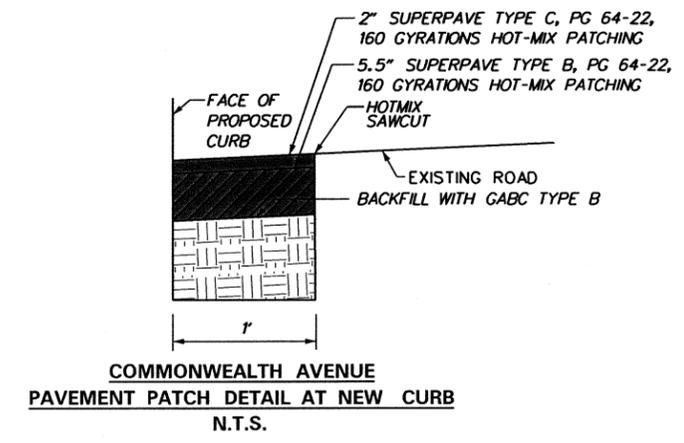
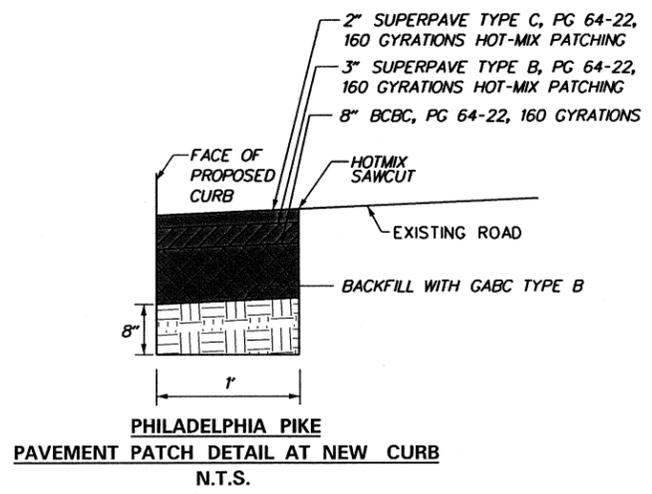
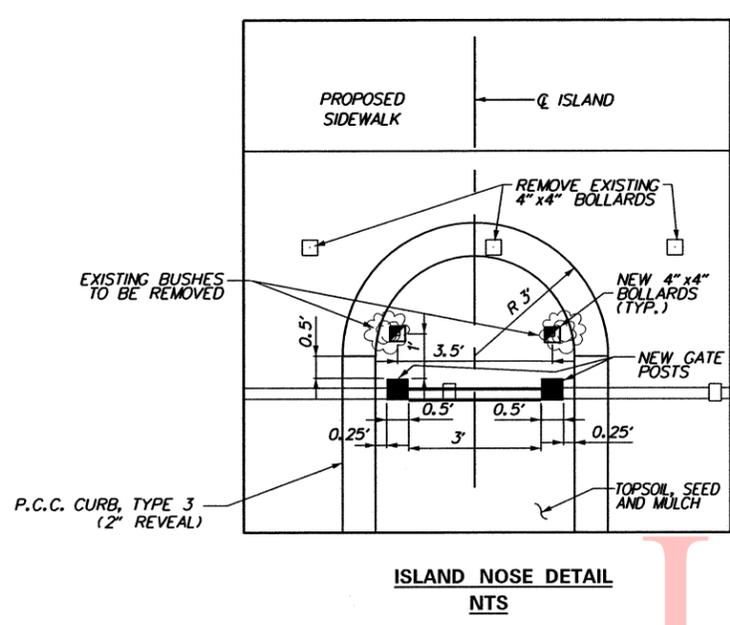


**U.S. 13 AND COMMONWEALTH AVENUE INTERSECTION IMPROVEMENTS**

CONTRACT T201006111	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: CC
	CHECKED BY: JP

**GRADES & GEOMETRICS**

SHEET NO.	5
TOTAL SHTS.	7



- EXISTING 4" x 4" BOLLARD TO BE REMOVED
- EXISTING 4" x 4" BOLLARD TO REMAIN
- NEW 4" x 4" BOLLARD AND CAP (MATCH EXISTING MATERIAL, COLOR, AND FINISH)

REMOVE EXISTING PAVEMENT AND REPLACE WITH TOPSOIL, SEED AND MULCH

- NOTES:**
1. NEW GATE POSTS ARE TO MATCH THE EXISTING 6" x 6" GATE POST MATERIAL, DIMENSIONS, FINISH, AND COLOR.
  2. EXISTING GATE HARDWARE IS TO BE USED TO MOUNT THE RELOCATED GATES.
  3. PROVIDE A GATE PIN LOCK AT THE CENTER OF THE GATE SPAN.
  4. GATE AND FENCE POSTS ARE TO BE SET IN CONCRETE.

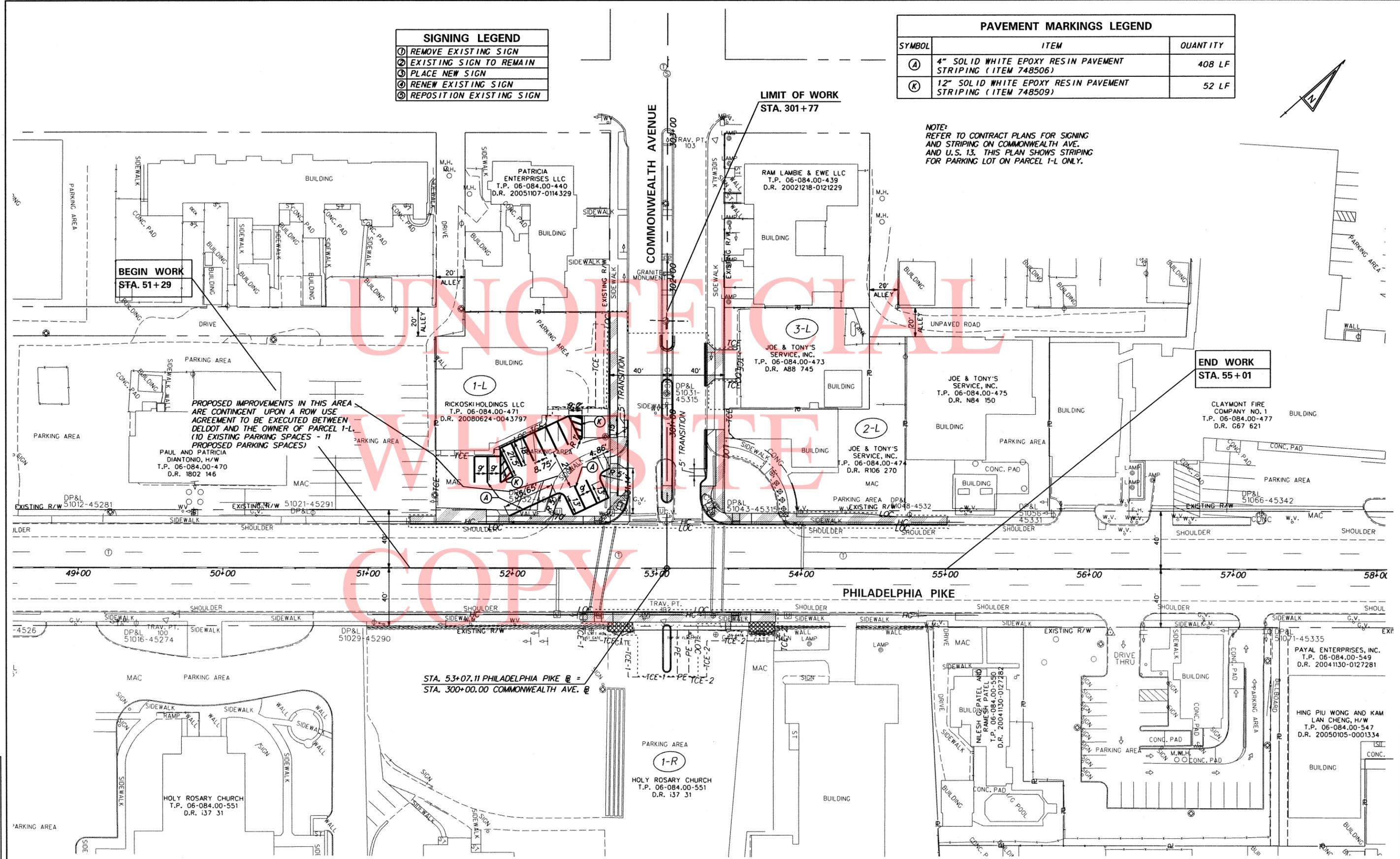
FINAL PLANS

<p><b>DELAWARE</b> DEPARTMENT OF TRANSPORTATION</p>	ADDENDUMS / REVISIONS		<p><b>U.S. 13 AND</b> <b>COMMONWEALTH AVENUE</b> <b>INTERSECTION IMPROVEMENTS</b></p>	CONTRACT	BRIDGE NO.	<p><b>CONSTRUCTION DETAILS</b></p>	SHEET NO.	
				T201006111			DESIGNED BY: CC	6
				COUNTY	NEW CASTLE		CHECKED BY: JP	TOTAL SHTS.
								7

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

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	4" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748506)	408 LF
(K)	12" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748509)	52 LF

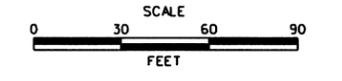
NOTE:  
REFER TO CONTRACT PLANS FOR SIGNING AND STRIPING ON COMMONWEALTH AVE. AND U.S. 13. THIS PLAN SHOWS STRIPING FOR PARKING LOT ON PARCEL 1-L ONLY.



FINAL PLANS



ADDENDUMS / REVISIONS	



**U.S. 13 AND COMMONWEALTH AVENUE INTERSECTION IMPROVEMENTS**

CONTRACT T201006111	BRIDGE NO.	SIGNING, STRIPING & CONDUIT PLAN	SHEET NO. 7
COUNTY NEW CASTLE	DESIGNED BY: CC		TOTAL SHTS. 7
	CHECKED BY: JP		