

DEPARTMENT OF TRANSPORTATION
OFFICE OF TRANSPORTATION SOLUTIONS
PLANS AND SPECIFICATIONS FOR

CONTRACT NUMBER - T201406302.01 SOUTH MAINTENANCE
FEDERAL AID NUMBER - ESTP-2014(01) PRIMAVERA ID - 14-06302
CONTRACT TITLE - PAVEMENT & REHABILITATION - SOUTH II-II, 2014 PAGE 1 OF 35

PLANS PREPARED BY: Paul Farkas
DESIGN TECHNICIAN

DATE RECOMMENDED: 7/6/2011

Bradford L. Selms
GROUP ENGINEER, CONSTRUCTION

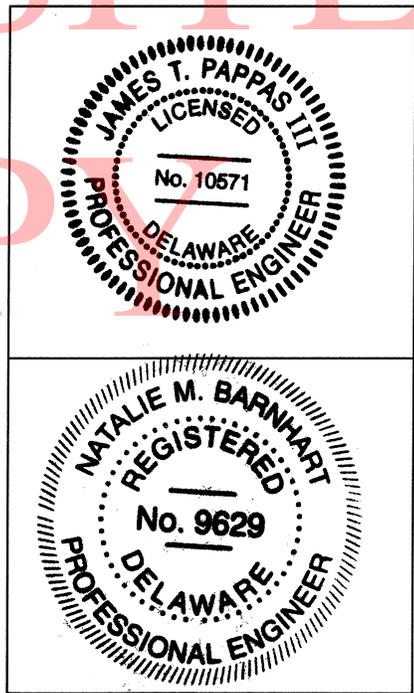
DATE RECOMMENDED: 7-24-11

James T. Pappas III
ASSIST. DIRECTOR, DESIGN

DATE RECOMMENDED: 7/24/11

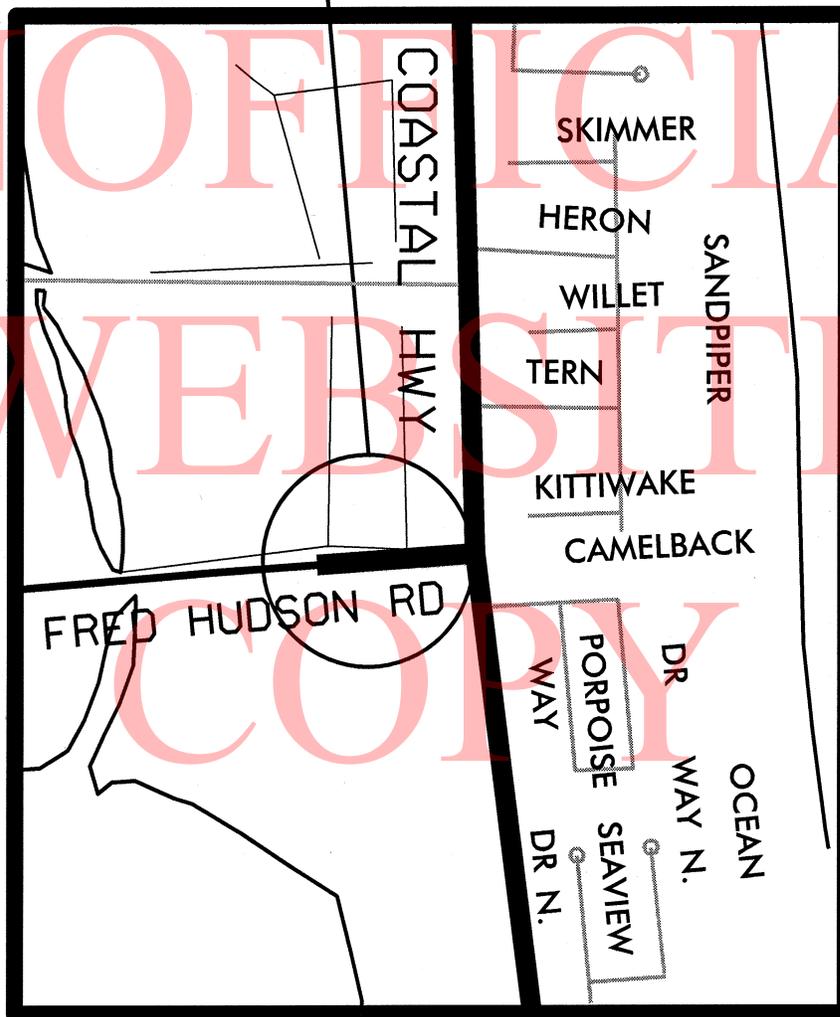
Natalie Barnhart
CHIEF ENGINEER

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LOCATION MAP

Location 1



LOC. 1 - FRED HUDSON RD @ SR1 INTERSECTION

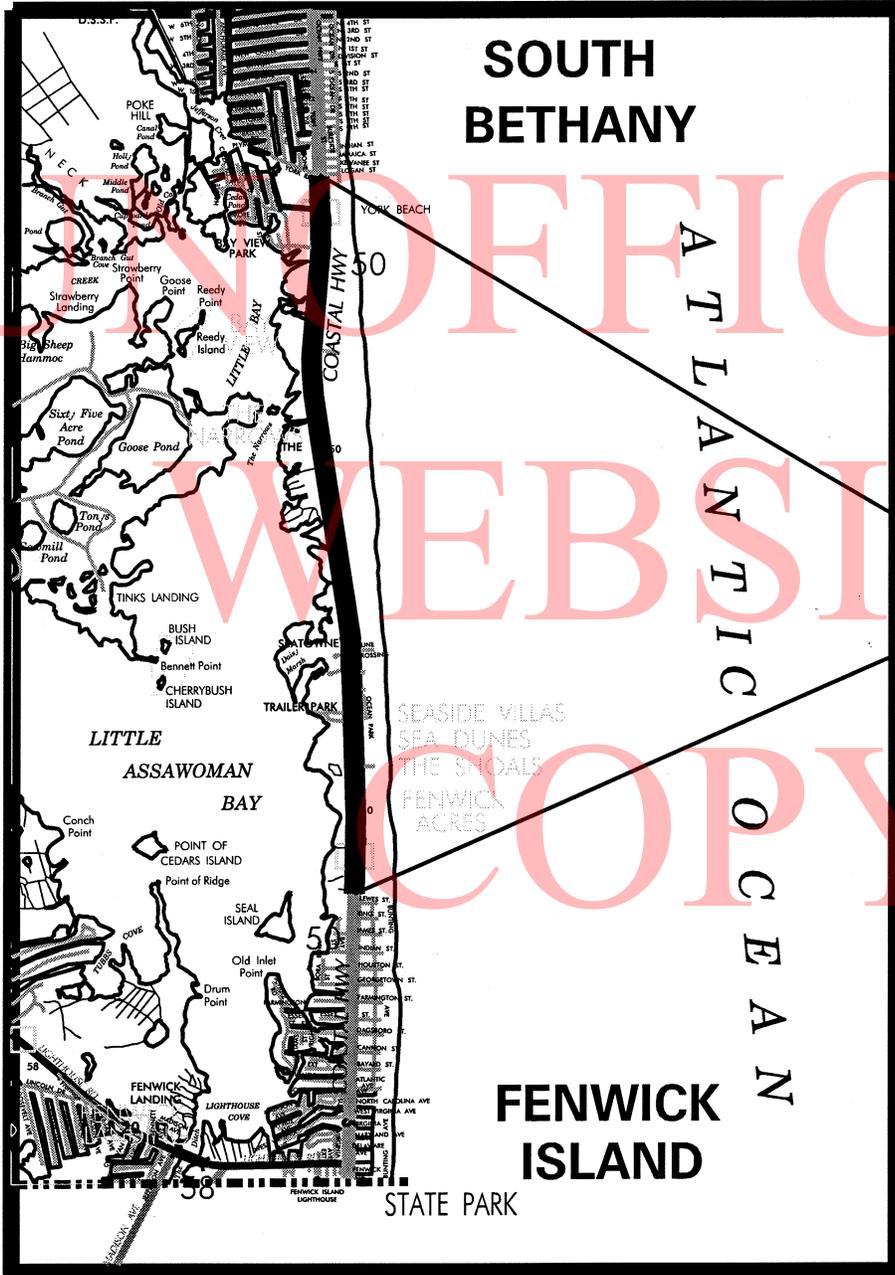
DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201406302

PAGE 3 OF 35

BETHANY/FENWICK SR 1, PENNSYLVANIA AVE, FRED HUDSON RD.

LOCATION MAP



LOC. 2 & 4 - SR 1 COASTAL HIGHWAY FROM FENWICK TO YORK/LOGAN ST.

DEPARTMENT OF TRANSPORTATION

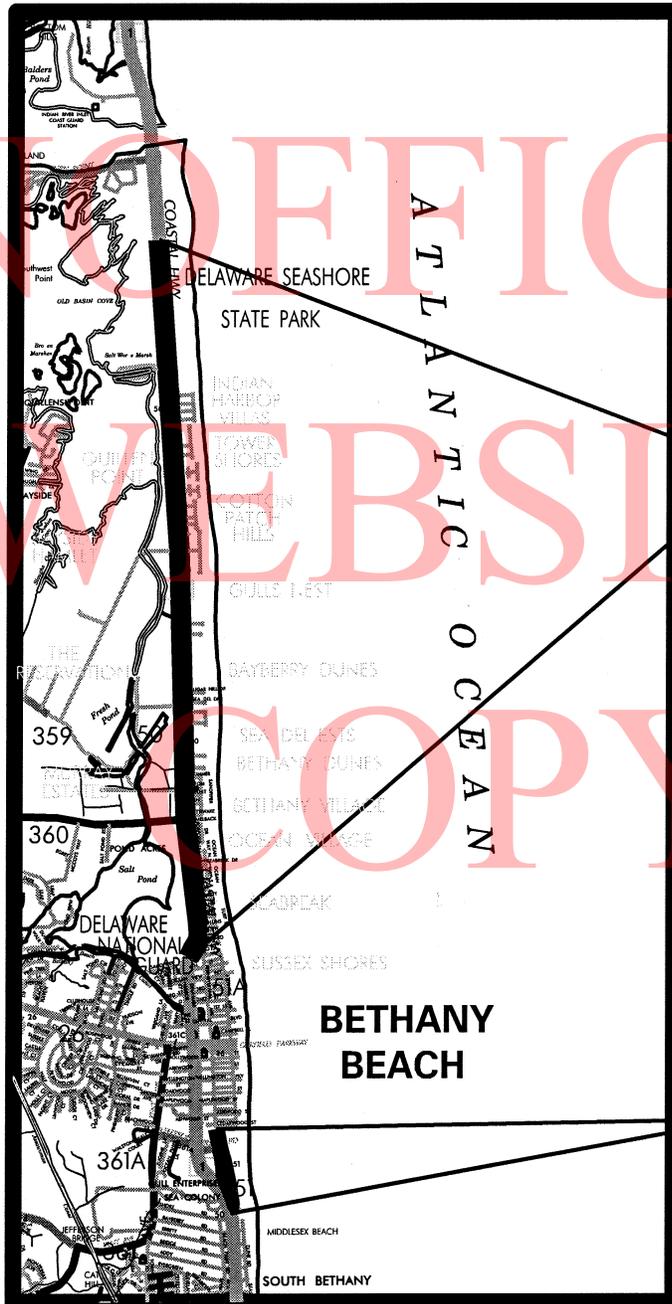
CONTRACT NUMBER- T201406302

PAGE 4 OF 35

BETHANY/FENWICK SR 1, PENNSYLVANIA AVE, FRED HUDSON RD.

LOCATION MAP

LOC. 3 & 4 - SR 1 COASTAL HIGHWAY
FROM FIFTH ST TO NORTH OF 3RS BEACH ENT.



Location
3 & 4

Location 5

LOC. 5 - PENNSYLVANIA AVE(SOUTH BETHANY)
FROM SR 1, COASTAL HWY TO HMJ NEAR CEDARWOOD LN.

PAVEMENT & REHABILITATION, SOUTH II-II, 2014

GENERAL CONTRACT PLAN NOTES

REVISED 7/11

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.

MAINTENANCE OF TRAFFIC

5. 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. 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, SHALL BE INSTALLED IN ACCORDANCE WITH THE TEMPORARY STRIPING POLICY. TEMPORARY PAVEMENT STRIPING 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

PAVEMENT & REHABILITATION, SOUTH II-II, 2014

GENERAL CONTRACT PLAN NOTES

TEMPORARY MARKINGS WILL BE AT THE CONTRACTOR'S EXPENSE.

7. ALL WORK SHALL BE PERFORMED IN A MANNER THAT WILL REASONABLY PROVIDE THE LEAST PRACTICABLE OBSTRUCTION TO ALL ROAD USERS, INCLUDING VEHICULAR, PEDESTRIAN AND BICYCLE TRAFFIC, AND SHALL CONFORM TO THE REQUIREMENTS OF THE 2011 DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART 6, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT FOR BIDS.

8. 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 TA-28 AND/OR TA-29 OF THE 2011 DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR TO THE SATISFACTION OF THE ENGINEER. PEDESTRIAN DETOUR ROUTES OR ALTERNATE PEDESTRIAN FACILITIES SHALL CONSIST OF ADA COMPLIANT FACILITIES TO THE LEVEL OF WHICH EXISTS ON THE PEDESTRIAN ROUTE. THE COST FOR ANY PROVISIONS SHALL BE INCIDENTAL TO ITEM 763XXX - MAINTENANCE OF TRAFFIC.

PEDESTRIAN MAINTENANCE OF TRAFFIC: THIS WORK SHALL CONSIST OF PROVIDING AND MAINTAINING AN ACCESSIBLE PEDESTRIAN ROUTE THROUGHOUT THE PROJECT'S LIMITS IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT OF 1990 (ADA) TITLE II, PARAGRAPH 35.130.

THE CONTRACTOR SHALL BE REQUIRED TO REVIEW EACH CURB RAMP LOCATION AND SUBMIT THE APPROPRIATE MAINTENANCE OF TRAFFIC DETAIL AND DEVICES TO THE ENGINEER FOR EACH LOCATION AT LEAST 2 WEEKS BEFORE CONSTRUCTION FOR REVIEW, COMMENT, AND APPROVAL. THE FOLLOWING CONSIDERATIONS SHALL BE TAKEN INTO ACCOUNT WHEN ADDRESSING ACCESSIBLE PEDESTRIAN MAINTENANCE OF TRAFFIC:

- ALL PEDESTRIANS, INCLUDING PERSONS WITH DISABILITIES, SHALL BE PROVIDED WITH A REASONABLY SAFE, CONVENIENT AND ACCESSIBLE PATH THAT REPLICATES AS MUCH AS PRACTICABLE THE EXISTING PEDESTRIAN FACILITIES.
- MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AT ALL TIMES.
- PROVIDE PEDESTRIAN ACCESS THROUGH OR AROUND THE WORK ZONE. IF A DETOUR IS CHOSEN THE CONTRACTOR MUST SUBMIT THE DETOUR ROUTE TO THE ENGINEER FOR REVIEW AND APPROVAL. THE DETOUR ROUTE MUST MEET OR EXCEED THE CURRENT CONDITIONS.
- WORK SHOULD BE PHASED SO THAT ALL AREAS OF AN INTERSECTION/SIDEWALK PATH ARE NOT UNDER CONSTRUCTION AT THE SAME TIME UNLESS A CLEAR PATH IS PROVIDED AND IDENTIFIED.
- TRAFFIC CONTROL DEVICES AND OTHER CONSTRUCTION MATERIALS AND FEATURES SHALL NOT INTRUDE INTO THE USABLE WIDTH OF THE SIDEWALK, TEMPORARY PATHWAY OR OTHER PEDESTRIAN FACILITY.
- SIGNS AND OTHER DEVICES MOUNTED LOWER THAN 7FT ABOVE THE TEMPORARY PEDESTRIAN PATHWAY SHALL NOT PROJECT MORE THAN 4 IN. INTO ACCESSIBLE PEDESTRIAN ROUTE.

A SMOOTH, CONTINUOUS HARD SURFACE SHALL BE PROVIDED THROUGHOUT THE ENTIRE LENGTH

PAVEMENT & REHABILITATION, SOUTH II-II, 2014

GENERAL CONTRACT PLAN NOTES

AND WIDTH OF THE PEDESTRIAN ROUTE THROUGHOUT CONSTRUCTION. THERE SHALL BE NO CURBS OR VERTICAL ELEVATION CHANGES GREATER THAN ¼ IN. IN GRADE OR TERRAIN THAT COULD CAUSE TRIPPING OR BE A BARRIER TO WHEELCHAIR USE.

9. AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED TRAFFIC CONTROL SUPERVISOR SHALL BE REQUIRED FOR ALL LOCATIONS SPECIFIED IN THE CONTRACT PLANS. A COPY OF THE CERTIFICATION CARD FOR THE ATSSA TRAFFIC CONTROL SUPERVISOR SHALL BE SUBMITTED AT THE PRECONSTRUCTION MEETING. THE PAPER CERTIFICATE IS NOT ACCEPTABLE.

PAVEMENT MARKINGS

10. 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 5-6-5 CONFIGURATION (2 EACH, 5" YELLOW STRIPES WITH A 6" GAP BETWEEN).

11. 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.

12. STOP LINES "BARS" SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 3B.16 OF THE 2011 DELAWARE MUTCD.

13. ALL CROSSWALKS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 3B.18 OF THE 2011 DELAWARE MUTCD.

TRAFFIC SIGNAL NOTES

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

PAVEMENT & REHABILITATION, SOUTH II-II, 2014

GENERAL CONTRACT PLAN NOTES

15. 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.

PROJECT

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

17. 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.

18. 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.

19. 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.

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

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

22. 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.

PAVEMENT & REHABILITATION, SOUTH II-II, 2014

GENERAL CONTRACT PLAN NOTES

FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

23. 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.

24. THE CONTRACTOR SHALL TAKE CARE IN REMOVING PAVEMENT AROUND UTILITIES, BUTT JOINTS, CURBING, 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.

25. 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.

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

27. 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.

COPY

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201406302

PAGE 10 OF 35

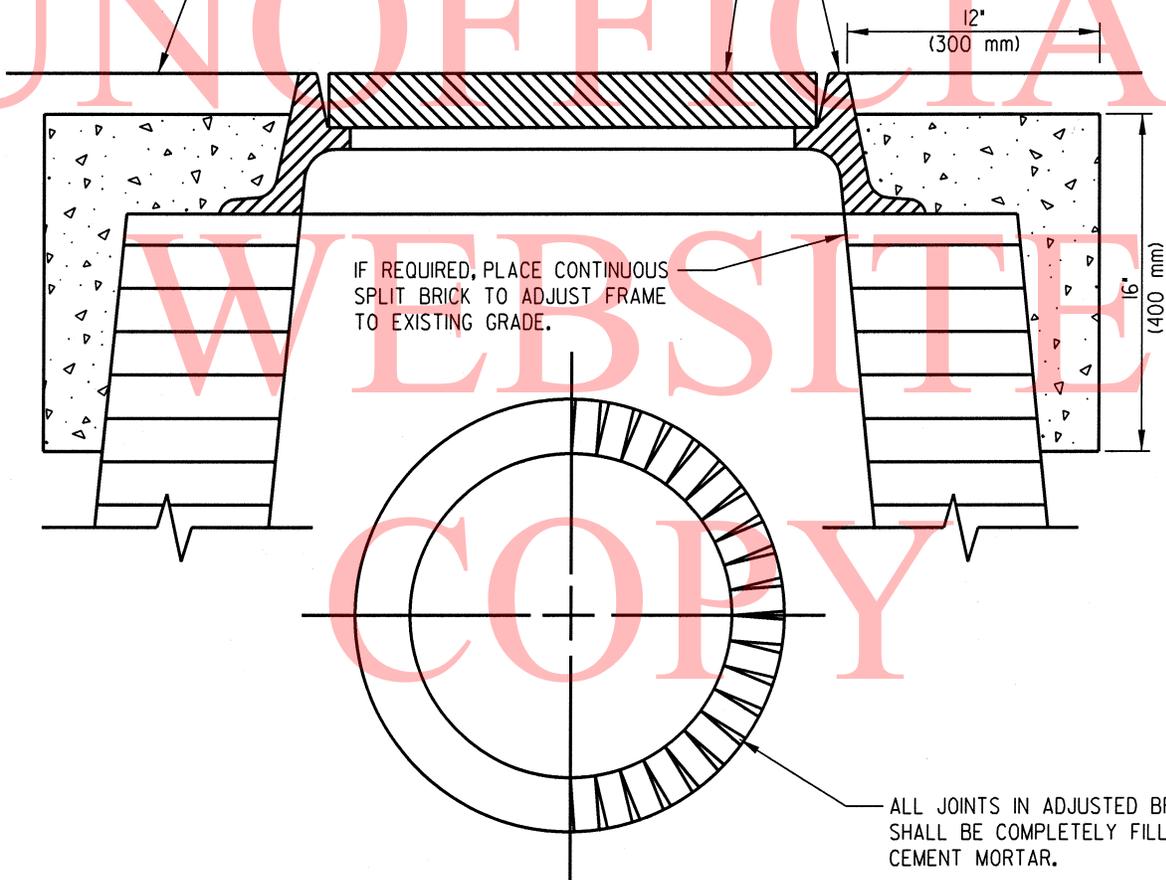
SOUTH MAINTENANCE

BETHANY/FENWICK SR 1, PENNSYLVANIA AVE, FRED HUDSON RD..

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.

NOTES:

1. 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.
2. ANY ADJUSTMENTS AND/OR RELOCATIONS OF MUNICIPALLY OWNED SEWER OR WATER FACILITIES SHALL BE DONE IN ACCORDANCE TO THE RESPECTIVE AGENCIES STANDARD SPECIFICATIONS AS DIRECTED BY THE ENGINEER.

DELAWARE DEPARTMENT OF TRANSPORTATION

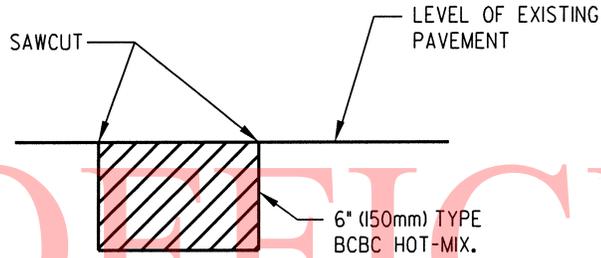
CONTRACT NUMBER- T201406302

PAGE 11 OF 35

SOUTH MAINTENANCE

BETHANY/FENWICK SR 1, PENNSYLVANIA AVE, FRED HUDSON RD..

DETAILS SHEET



HOT MIX PATCH DETAIL

N.T.S.

NOTE: ALL EDGES TO BE SAWCUT. CUTTING BY USE OF AIR HAMMERS MAY BE SUBSTITUTED FOR SAWCUTTING IF THE AREA IS TO BE OVERLAID UNDER THE SAME CONTRACT. THIS DETAIL SHALL BE USED FOR ALL HOT-MIX PATCHES UNLESS OTHERWISE SHOWN ON THE PLANS.

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 MILLING OF THE CONCRETE WILL BE PAID FOR AS MILLING HOT-MIX.

P.C.C. PATCHING NOTES

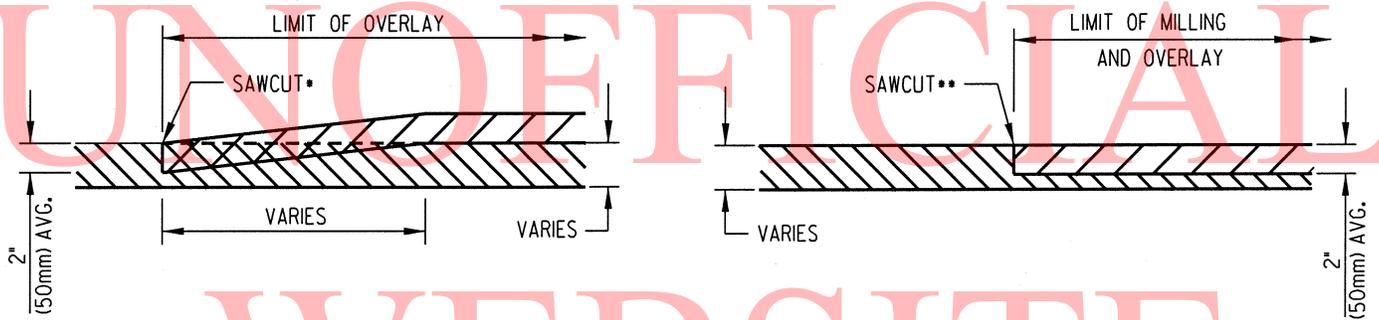
DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201406302

PAGE 12 OF 35

SOUTH MAINTENANCE BETHANY/FENWICK SR 1, PENNSYLVANIA AVE, FRED HUDSON RD.

DETAILS SHEET



LEGEND

| | |
|---|-----------------------------------|
|  | — PROPOSED OVERLAY |
|  | — EXISTING PAVEMENT |
|  | — EXISTING PAVEMENT TO BE REMOVED |

**HOT-MIX JOINT
FOR OVERLAY SECTION***

PAYMENT UNDER ITEM 761001.
*SAWCUT IS INCIDENTAL TO ITEM 761001.

LEGEND

| | |
|--|--|
|  | — PROPOSED FULL WIDTH MILLING AND HOT MIX OVERLAY |
|  | — EXISTING PAVEMENT (TO REMAIN) |

**HOT MIX JOINT
FOR FULL WIDTH MILLING SECTION****

PAYMENT INCIDENTAL TO ITEM 760XXX, MILLING.
**SAWCUT SHALL BE PAID UNDER ITEM 762001.

NOTES:

- THE FOLLOWING LENGTHS ARE BASED ON THE POSTED SPEED OF THE ROADWAY:
1. EQUAL TO OR GREATER THAN 55 MPH = 40 FT (9.1m) PER 1" (25mm) OF OVERLAY DEPTH.
 2. LESS THAN 55 MPH = 30 FT (6m) PER 1" (25mm) OF OVERLAY DEPTH.
 3. AT STOP SIGNS = 15 FT (4.6m) PER 1" (25mm) OF OVERLAY DEPTH.

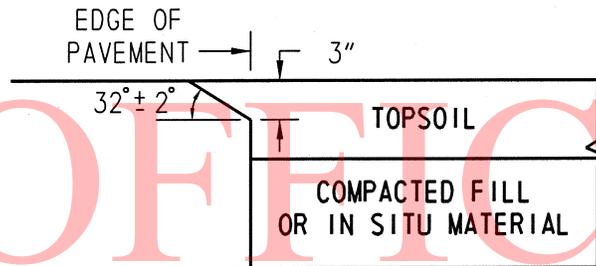
DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201406302

PAGE 13 OF 35

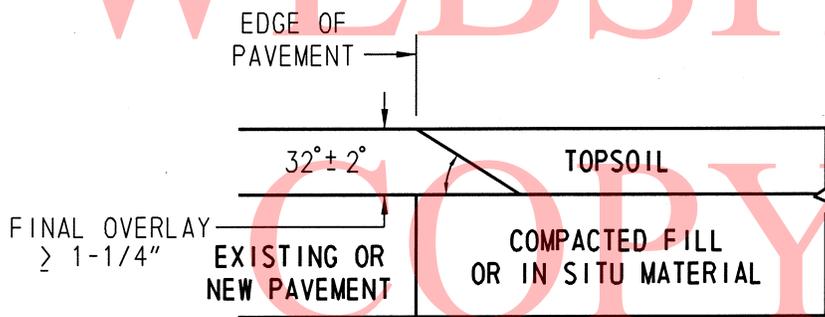
SOUTH MAINTENANCE BETHANY/FENWICK SR 1, PENNSYLVANIA AVE, FRED HUDSON RD..

DETAILS SHEET



CONCRETE PAVEMENTS

NOT TO SCALE



HOT-MIX PAVEMENTS AND OVERLAYS

NOT TO SCALE

SAFETY EDGE DETAIL

NOT TO SCALE

DELAWARE DEPARTMENT OF TRANSPORTATION

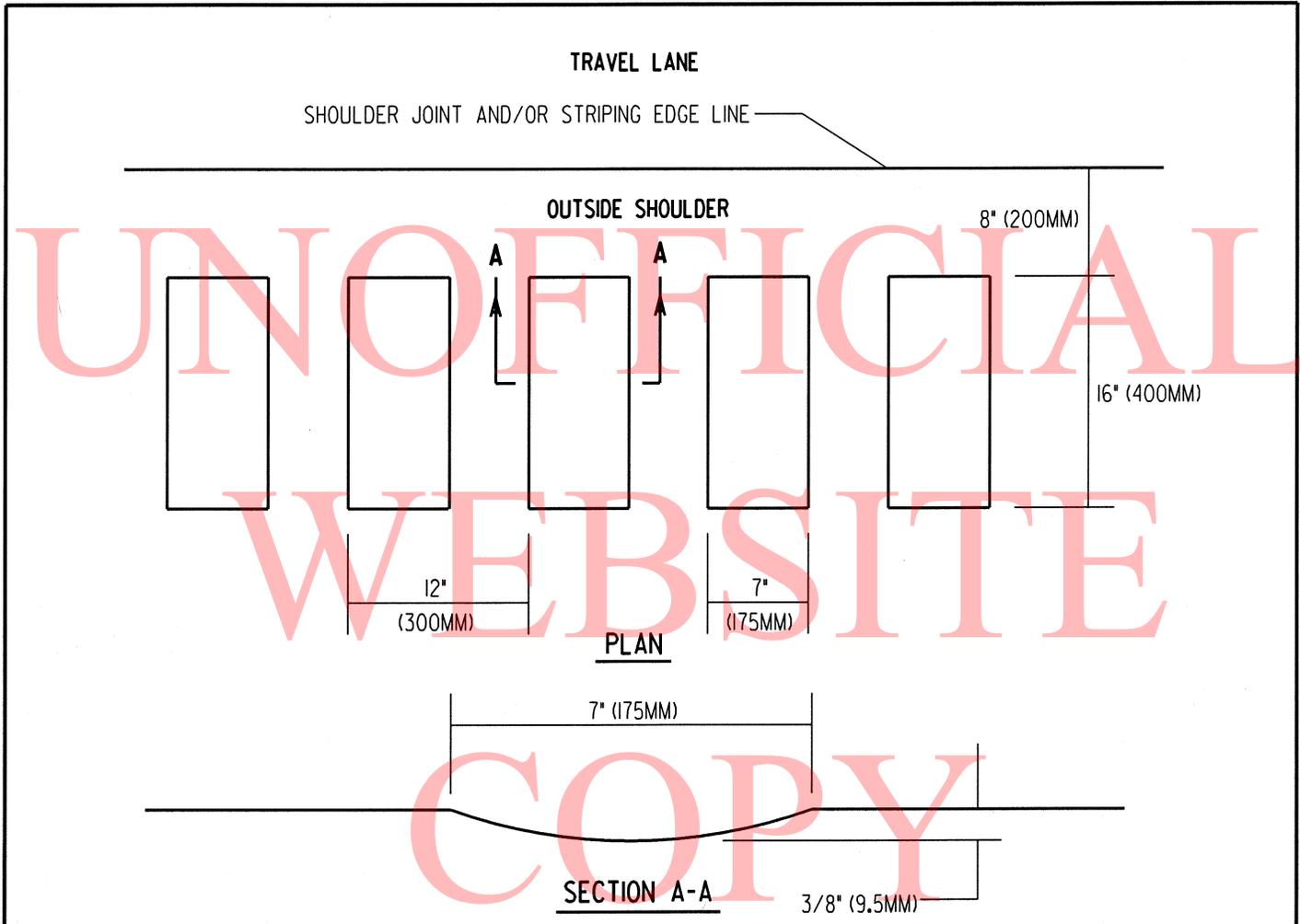
CONTRACT NUMBER- T201406302

PAGE 14 OF 35

SOUTH MAINTENANCE

BETHANY/FENWICK SR 1, PENNSYLVANIA AVE, FRED HUDSON RD..

DETAILS SHEET



BICYCLE-FRIENDLY RUMBLE STRIPS

N.T.S

•RUMBLE STRIP PATTERN IS 30 FOOT LONG RUMBLE STRIP WITH 10 FOOT GAPS WITHOUT RUMBLE STRIPS.

NOTES:

1. RUMBLE STRIPS SHALL BE INSTALLED IN ACCORDANCE WITH ITEM 760012 - RUMBLE STRIPS, BICYCLE-FRIENDLY.
2. RUMBLE STRIPS SHALL BE PLACED ON SHOULDERS IN LOCATION LISTED OR AS DIRECTED BY ENGINEER.
3. RUMBLE STRIPS SHALL NOT BE PLACED ON ACCEL./DECEL. LANES, OR BRIDGE DECKS.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201406302

PAGE 15 OF 35

SOUTH MAINTENANCE BETHANY/FENWICK SR 1, PENNSYLVANIA AVE, FRED HUDSON RD..

DETAILS SHEET

ROUTE 1 CROSS PIPE JOINT REPAIR & REPLACEMENT

BETWEEN FENWICK ISLAND TO SOUTH BETHANY

| PIPE NO. | LENGTH | SIZE & TYPE | REMEDY | Distance NB from centerline of Lewis St. |
|----------|--------|-------------|--------------------------|--|
| 1 | | 24" RCP | Joint repair | 188' |
| 2 | | 24" RCP | Joint repair | 361' |
| 3 | | 24" RCP | Joint repair | 481' |
| 4 | | 24" RCP | Joint repair | 5170' |
| 5 | 70' ± | 18" RCP | Replace pipe SB lanes | 5980' |
| 6 | | 18" RCP | Joint repair | 7410' |
| 7 | 70' ± | 36" RCP | Replace pipe SB lanes | 8010' |
| 8 | 70' ± | 24" RCP | Replace pipe SB lanes | 9180' |
| 9 | | 24" RCP | Joint repair | 11510' |
| 10 | 70' ± | 18" RCP | Replace pipe SB lanes | 12000' |
| 11 | 115' ± | 36" CMP | Replace pipe NB&SB lanes | 12320' |
| 12 | | 36" RCP | Joint repair | 12770' |
| 13 | | 18" RCP | Joint repair | 15110' |

BETWEEN N. BETHANY BEACH TO INDIAN RIVER INLET BRIDGE

| PIPE NO. | LENGTH | SIZE & TYPE | REMEDY | Distance NB from centerline of Collins St. |
|----------|--------|-------------|--------------|--|
| 14 | | 18" RCP | Joint repair | 945' |
| 15 | | 18" RCP | Joint repair | 4594' |
| 16 | | (2) 18" RCP | Joint repair | 7814' |
| 17 | | 18" RCP | Joint repair | 8894' |
| 18 | | (2) 18" RCP | Joint repair | 9694' |
| 19 | | 18" RCP | Joint repair | 9944' |
| 20 | | 18" RCP | Joint repair | 10564' |
| 21 | | 24" RCP | Joint repair | 11734' |
| 22 | | 18" RCP | Joint repair | 13694' |
| 23 | | 18" RCP | Joint repair | 14164' |
| 24 | | 18" RCP | Joint repair | 15094' |
| 25 | | 18" RCP | Joint repair | 16464' |
| 26 | | 18" RCP | Joint repair | 16994' |

ADDITIONAL PIPE JOINT REPAIRS NOT LISTED MAY BE REQUIRED THRU THE LIMITS OF THE PROJECT AS DIRECTED BY THE FIELD ENGINEER.

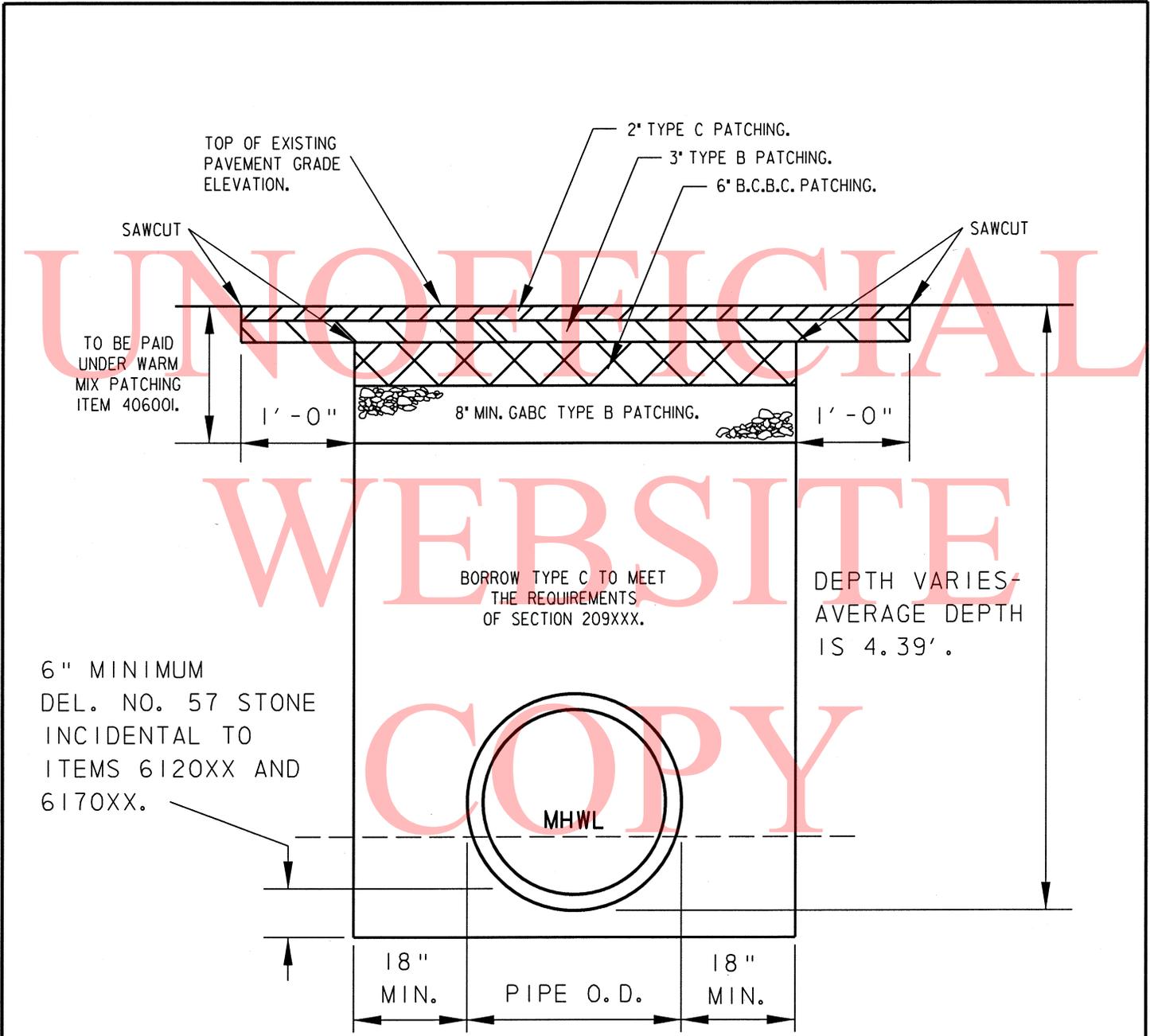
DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201406302

PAGE 16 OF 35

SOUTH MAINTENANCE BETHANY/FENWICK SR 1, PENNSYLVANIA AVE, FRED HUDSON RD..

DETAILS SHEET



Typical crosspipe repair & replacement section
N.T.S.

DELAWARE DEPARTMENT OF TRANSPORTATION

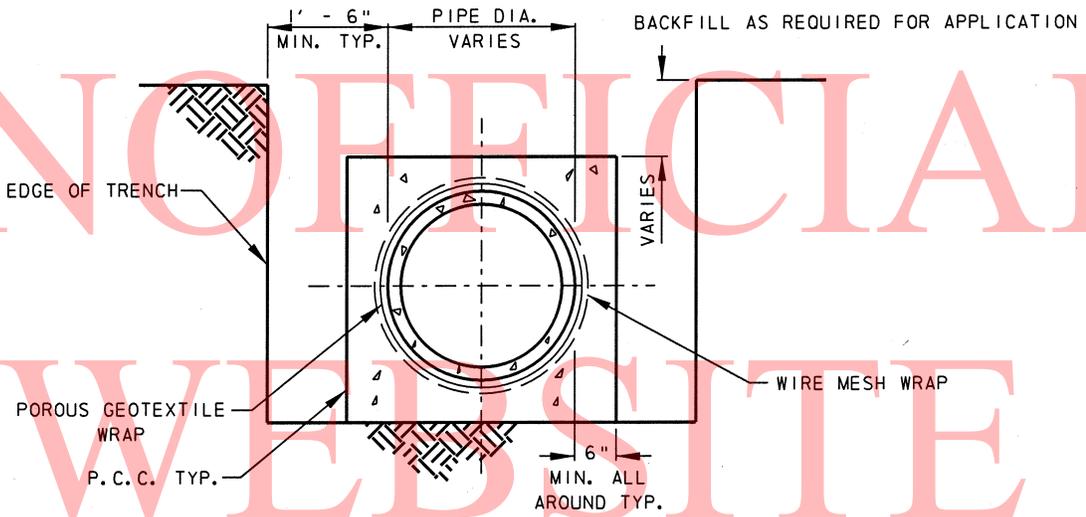
CONTRACT NUMBER- T201406302

PAGE 17 OF 35

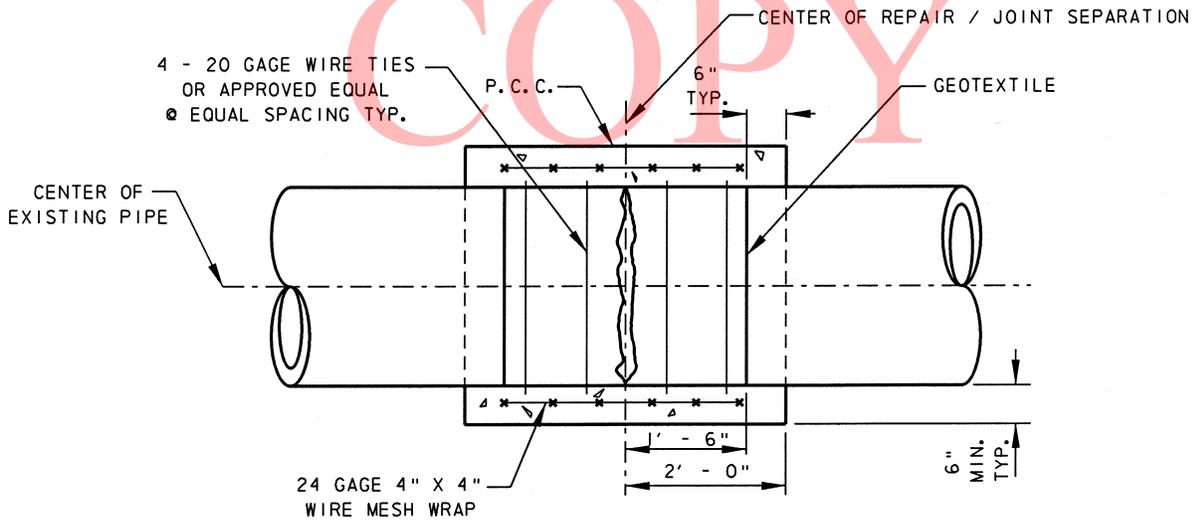
SOUTH MAINTENANCE

BETHANY/FENWICK SR 1, PENNSYLVANIA AVE, FRED HUDSON RD..

DETAILS SHEET



CONCRETE PIPE REPAIR DETAIL
NOT TO SCALE



SECTION
NOT TO SCALE

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201406302

PAGE 18 OF 35

SOUTH MAINTENANCE

BETHANY/FENWICK SR 1, PENNSYLVANIA AVE, FRED HUDSON RD..

DETAILS SHEET

OSF OF DISTURBANCE EACH OUTFALL.
TOTAL DISTURBANCE IS OSF.

TEMPORARY SANDBAG BERM OR BLADDER BAG TO MAINTAIN A DRY WORKING AREA. TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

EDGE LINE OF EXISTING DRAINAGE DITCHES.

OPTION A - SANDBAGS.
OPTION B - BLADDER BAG.

EDGE OF PAVEMENT SHOULDER.

EDGE OF PAVEMENT SHOULDER.

EXISTING DRAINAGE INLET
IN CENTER OF MEDIAN.

TEMPORARY SANDBAG BERM OR BLADDER BAG TO MAINTAIN A DRY WORKING AREA. TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

OPTION A - SANDBAGS.
OPTION B - BLADDER BAG.

Typical for crosspise joint repair (Inlet&Outfall)

N.T.S.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER- T201406302

PAGE 19 OF 35

SOUTH MAINTENANCE BETHANY/FENWICK SR 1, PENNSYLVANIA AVE, FRED HUDSON RD..

DETAILS SHEET

15SF OF DISTURBANCE EACH OUTFALL.
TOTAL DISTURBANCE IS 90SF.

TEMPORARY SANDBAG BERM TO EACH SIDE TO MAINTAIN A DRY WORKING AREA. TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

EDGE LINE OF EXISTING DRAINAGE DITCHES.

5'

3'

EDGE OF PAVEMENT SHOULDER.

EDGE OF PAVEMENT SHOULDER.

EXISTING DRAINAGE INLET IN CENTER OF MEDIAN.

TEMPORARY SANDBAG BERM OR BLADDER BAG TO MAINTAIN A DRY WORKING AREA. TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

OPTION A - SANDBAGS.
OPTION B - BLADDER BAG.

Typical for crosspipe replacement (Inlet&Outfall)

N.T.S.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201406302

PAGE 20 OF 35

SOUTH
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH II-II, 2014

LOCATION 1 FRED HUDSON ROAD (S360) @SR 1 INTERSECTION.

LENGTH 137.16 m 450 L.F.

GENERAL IMPROVEMENTS

CONSTRUCT RIGHT TURN LANE AND 2" WARM-MIX OVERLAY.(REFERENCE ATTACHED CONSTRUCTION SHEETS).

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 1

| | | |
|--------|--|---------------|
| 202000 | EXCAVATION AND EMBANKMENT | 175.00 C.Y. |
| 209002 | BORROW, TYPE B | 125.00 C.Y. |
| 212000 | UNDERCUT EXCAVATION | 125.00 C.Y. |
| 251001 | REINFORCED SILT FENCE | 500.00 L.F. |
| 302007 | GRADED AGGREGATE BASE COURSE, TYPE B | 82.00 C.Y. |
| 401810 | BITUMINOUS CONCRETE, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22 | 63.00 TON |
| 401819 | WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22 | 63.00 TON |
| 401827 | WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON- CARBONATE STONE) | 230.00 TON |
| 732002 | TOPSOIL, 6" DEPTH | 50.00 S.Y. |
| 734013 | PERMANENT GRASS SEEDING, DRY GROUND | 50.00 S.Y. |
| 743004 | FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN | 14.00 EA-DY |
| 743010 | FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II | 6.00 EA-DY |
| 743052 | ** FLAGGER, SUSSEX COUNTY, STATE | 60.00 HOUR |
| 743064 | ** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME | 10.00 HOUR |
| 748015 | PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC | 130.00 S.F. |
| 748548 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5" | 1,230.00 L.F. |
| 748553 | PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL | 3.00 EACH |
| 760507 | PROFILE MILLING, HOT-MIX | 890.00 SY-IN |
| 761001 | BUTT JOINTS, HOT MIX | 40.00 S.Y. |
| 762001 | SAW CUTTING, HOT MIX | 500.00 L.F. |

** DENOTES FIXED PRICE ITEM

SOUTH
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH II-II, 2014

LOCATION 1 FRED HUDSON ROAD (S360) @SR 1 INTERSECTION.

COMMENTS:

THIS LOCATION SHALL BE SUBSTANTIALLY COMPLETED FIRST PRIOR TO STARTING ANY OTHER LOCATIONS OF THE CONTRACT.

=====

1. RECOMMENDED M.O.T. CASE NO. TA-10 (TRAVEL LANES).
CASE NO. TA-6 (SHOULDERS).

2. DAYTIME TIME WORK HOURS: 9:00AM TO 5:00PM.

3. SUMMER SEASON LANE CLOSURES ARE NOT PERMITTED BETWEEN MAY 19 TO SEPT. 8, 2014.

4. ON THE MAIN CONSTRUCTION ROAD AND ALL INTERSECTING ROADS, "ROAD WORK AHEAD AND END" SIGNS FACING THE TRAFFIC SHALL BE PLACED AT 1500', 1000' AND 500' APPROACHING THE WORK ZONE. IN THOSE CASES, WHERE IT IS DIFFICULT TO MEET THE ABOVE CRITERIA BECAUSE OF DISTANCE LIMITATIONS, THE SIGN SHALL BE PLACED AS DIRECTED BY THE FIELD ENGINEER.

5. MULTI USE PATHS/BIKE LANES SHALL BE MAINTIANED THROUGH THE WORK ZONE FOR ALL LOCATIONS WHERE IT APPLIES AND SHALL BE CHANNELIZED FROM THE WORK ARE USING CONES.

6. TRM HOT-MIX ASPHALT SHALL BE USED ONLY, COLD-MIX ASPHALT (COLD PATCH) WILL NOT BE ACCEPTED.

7. FRED HUDSON ROAD TURN LANE

 - A. REFERENCE ATTACHED SHEETS FOR CONSTRUCTION PLANS AND PAVEMENT DETAILS.

 - B. CONSTRUCTION OF THE TURN LANE IS A PRIORITY TO BE THE FIRST LOCATION COMPLETED MINUS THE FINAL FULL WIDTH OVERLAY.

 - C. A FINAL FULL WIDTH TYPE C OVERLAY ON FRED HUDSON ROAD SHALL BE PLACED TO THE BEGINNING OF THE TURN LANE LIMITS TO BE COMPLETED DURING THE SR 1 PAVING OPERATIONS AT A LATER DATE.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201406302

PAGE 22 OF 35

SOUTH
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH II-II, 2014

LOCATION 2 SR 1, COASTAL HWY, NB & SB (S50) FROM HMJ @ FENWICK TOWN LIMITS TO HMJ @ YORK RD/LOGAN ST. (SOUTH BETHANY).

LENGTH 9083.04 m 29800 L.F. AADT 18530

GENERAL IMPROVEMENTS

WARM-MIX PATCHING, 1 1/4" MILLING (OPEN GRADE @ 27' W) AND 2" WARM-MIX TYPE C (64-22) FULL WIDTH OVERLAY.

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 | 300.00 TON |
| 401823 | WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING | 600.00 TON |
| 401827 | WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON- CARBONATE STONE) | 14,800.00 TON |
| 402000 | HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM) | 50.00 TON |
| 406001 | WARM-MIX PATCHING | 9,200.00 SY-IN |
| 710002 | ADJUSTING AND REPAIRING EXISTING MANHOLE | 20.00 EACH |
| 732004 | TOPSOIL (TON) | 820.00 TON |
| 734013 | PERMANENT GRASS SEEDING, DRY GROUND | 9,933.00 S.Y. |
| 743003 | ARROWPANELS, TYPE C | 40.00 EA-DY |
| 743004 | FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN | 14.00 EA-DY |
| 743005 | FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY | 160.00 EA-DY |
| 743007 | ** TRAFFIC OFFICERS | 400.00 HOUR |
| 743010 | FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II | 40.00 EA-DY |
| 743052 | ** FLAGGER, SUSSEX COUNTY, STATE | 1,200.00 HOUR |
| 743064 | ** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME | 180.00 HOUR |
| 746924 | FURNISH & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT | 400.00 L.F. |
| 748015 | PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC | 400.00 S.F. |
| 748019 | TEMPORARY MARKINGS, PAINT, 4" | 89,400.00 L.F. |
| 748026 | TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND | 400.00 S.F. |
| 748502 | RAISED/RECESSED PAVEMENT MARKER | 373.00 EACH |
| 748548 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5" | 89,400.00 L.F. |
| 748553 | PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL | 18.00 EACH |
| 748554 | PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, PEDESTRIAN SYMBOL | 18.00 EACH |
| 760012 | RUMBLE STRIPS, BIKE-FRIENDLY, HOT-MIX | 59,600.00 L.F. |
| 760502 | PAVEMENT MILLING, TAPER CUT | 1,500.00 SY-IN |

SOUTH
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH II-II, 2014

LOCATION 2 SR 1, COASTAL HWY, NB & SB (S50) FROM HMJ @ FENWICK TOWN LIMITS TO HMJ @ YORK RD/LOGAN ST. (SOUTH BETHANY).

LENGTH 9083.04 m 29800 L.F. AADT 18530

GENERAL IMPROVEMENTS

WARM-MIX PATCHING, 1 1/4" MILLING (OPEN GRADE @ 27' W) AND 2" WARM-MIX TYPE C (64-22) FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 2

| | | |
|--------|--------------------------|------------------|
| 760507 | PROFILE MILLING, HOT-MIX | 111,750.00 SY-IN |
| 761001 | BUTT JOINTS, HOT MIX | 900.00 S.Y. |
| 762001 | SAW CUTTING, HOT MIX | 2,400.00 L.F. |

** DENOTES FIXED PRICE ITEM

UNOFFICIAL
WEBSITE
COPY

SOUTH
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH II-II, 2014

LOCATION 2 SR 1, COASTAL HWY, NB & SB (S50) FROM HMJ @ FENWICK TOWN LIMITS TO HMJ @ YORK RD/LOGAN ST. (SOUTH BETHANY).

COMMENTS:

1. RECOMMENDED M.O.T. CASE NO. TA-33, OPT. B (TRAVEL LANES).
CASE NO. TA-5B (SHOULDERS).
2. NIGHTTIME WORK HOURS: 8:00PM TO 6:00AM.
3. SUMMER SEASON LANE CLOSURES ARE NOT PERMITTED BETWEEN MAY 19 TO SEPT. 8, 2014.
4. ON THE MAIN CONSTRUCTION ROAD AND ALL INTERSECTING ROADS, "ROAD WORK AHEAD AND END" SIGNS FACING THE TRAFFIC SHALL BE PLACED AT 1500', 1000' AND 500' APPROACHING THE WORK ZONE. IN THOSE CASES, WHERE IT IS DIFFICULT TO MEET THE ABOVE CRITERIA BECAUSE OF DISTANCE LIMITATIONS, THE SIGN SHALL BE PLACED AS DIRECTED BY THE FIELD ENGINEER.
5. MULTI USE PATHS/BIKE LANES SHALL BE MAINTIANED THROUGH THE WORK ZONE FOR ALL LOCATIONS WHERE IT APPLIES AND SHALL BE CHANNELIZED FROM THE WORK ARE USING CONES.
6. GABC ITEM 302005 AND QUANTITY IS FOR UNIMPROVED DRIVEWAYS.
7. TRM HOT-MIX ASPHALT SHALL BE USED ONLY, COLD-MIX ASPHALT (COLD PATCH) WILL NOT BE ACCEPTED.
8. 2" TAPER MILL IN FRONT OF EXISTING CURB.
9. A MATERIAL TRANSFER VEHICLE SHALL BE USED FOR MAINLINE PAVING OPERATIONS.
10. THE REMOVAL OF EXISTING RAISED PAVEMENT MARKERS SHALL BE INCIDENTAL TO THE MILLING OPERATION.

THIS LOCATION SHALL MEET THE TOLERANCES OF SUBSECTION 401580 - RIDE QUALITY OF HOT-MIX PAVEMENT REQUIREMENTS, AS SPECIFIED IN THE SPECIAL PROVISIONS.

ADJUSTMENTS

20 - SUSSEX COUNTY SANITARY*

*IT IS THE RESPONSIBILTY OF THE CONTRACTOR TO PERFORM ANY MANHOLE ADJUSTMENTS AND/OR REPAIRS AS PER THE SPECIFICATIONS OF THE SUSSEX COUNTY SANITARY DEPT. THE DETAIL CAN BE OBTAINED THRU THE SCSW OFFICE IN GEORGETOWN.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201406302

PAGE 25 OF 35

SOUTH
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH II-II, 2014

LOCATION 3 SR 1, COASTAL HWY, NB & SB (S50) FROM HMJ @ FIFTH ST. (BETHANY BEACH)
TO HMJ NORTH OF 3R'S BEACH ENTRANCE.

LENGTH 11603.736 m 38070 L.F. AADT 18530

GENERAL IMPROVEMENTS

WARM-MIX PATCHING AND 2" WARM-MIX TYPE C(64-22) FULL WIDTH OVERLAY

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 3

| | | |
|--------|--|-----------------|
| 302005 | GRADED AGGREGATE BASE COURSE, TYPE B | 150.00 TON |
| 401696 | ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE | 500.00 TON |
| 401823 | WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING | 1,280.00 TON |
| 401827 | WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON- CARBONATE STONE) | 25,100.00 TON |
| 402000 | HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM) | 100.00 TON |
| 406001 | WARM-MIX PATCHING | 22,200.00 SY-IN |
| 705007 | SIDEWALK SURFACE DETECTABLE WARNING SYSTEM | 200.00 S.F. |
| 705008 | CURB RAMP, TYPE 1 | 225.00 S.F. |
| 705009 | CURB RAMP, TYPE 2, 3, AND/OR 4 | 630.00 S.F. |
| 705010 | CURB RAMP, TYPE 5 | 360.00 S.F. |
| 705530 | TRIANGULAR CHANNELIZING ISLANDS | 630.00 S.F. |
| 708060 | REPLACE DRAINAGE INLET GRATE(S) | 2.00 EACH |
| 708061 | REPLACE DRAINAGE INLET FRAME(S) | 2.00 EACH |
| 710001 | ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET | 2.00 EACH |
| 710002 | ADJUSTING AND REPAIRING EXISTING MANHOLE | 20.00 EACH |
| 732004 | TOPSOIL (TON) | 1,047.00 TON |
| 734013 | PERMANENT GRASS SEEDING, DRY GROUND | 12,690.00 S.Y. |
| 743003 | ARROWPANELS, TYPE C | 75.00 EA-DY |
| 743004 | FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN | 56.00 EA-DY |
| 743005 | FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY | 270.00 EA-DY |
| 743007 | ** TRAFFIC OFFICERS | 700.00 HOUR |
| 743010 | FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II | 70.00 EA-DY |
| 743052 | ** FLAGGER, SUSSEX COUNTY, STATE | 1,850.00 HOUR |
| 743064 | ** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME | 270.00 HOUR |
| 744541 | FURNISH & INSTALL FRAME AND LID FOR JUNCTION WELL, TYPE 11 | 4.00 EACH |
| 744542 | FURNISH & INSTALL FRAME AND LID FOR JUNCTION WELL, TYPE 14 | 1.00 EACH |
| 745602 | FURNISH & INSTALL UP TO 4" SCHEDULE 80 HDPE CONDUIT (BORE) | 265.00 L.F. |

SOUTH
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH II-II, 2014

LOCATION 3 SR 1, COASTAL HWY, NB & SB (S50) FROM HMJ @ FIFTH ST. (BETHANY BEACH)
TO HMJ NORTH OF 3R'S BEACH ENTRANCE.

LENGTH 11603.736 m 38070 L.F. AADT 18530

GENERAL IMPROVEMENTS

WARM-MIX PATCHING AND 2" WARM-MIX TYPE C(64-22) FULL WIDTH OVERLAY

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 3

| | | |
|--------|--|-----------------|
| 745604 | FURNISH & INSTALL UP TO 4" SCHEDULE 80 PVC CONDUIT (TRENCH) | 15.00 L.F. |
| 746850 | POLE BASE, TYPE 4 | 5.00 EACH |
| 746924 | FURNISH & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT | 550.00 L.F. |
| 748015 | PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC | 3,680.00 S.F. |
| 748019 | TEMPORARY MARKINGS, PAINT, 4" | 122,390.00 L.F. |
| 748026 | TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND | 2,600.00 S.F. |
| 748502 | RAISED/RECESSED PAVEMENT MARKER | 476.00 EACH |
| 748548 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5" | 122,390.00 L.F. |
| 748553 | PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL | 91.00 EACH |
| 748554 | PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, PEDESTRIAN SYMBOL | 91.00 EACH |
| 760012 | RUMBLE STRIPS, BIKE-FRIENDLY, HOT-MIX | 76,140.00 L.F. |
| 760502 | PAVEMENT MILLING, TAPER CUT | 1,500.00 SY-IN |
| 761001 | BUTT JOINTS, HOT MIX | 1,700.00 S.Y. |
| 762001 | SAW CUTTING, HOT MIX | 3,200.00 L.F. |
| 763621 | CONSTRUCTION ENGINEERING, REHABILITATION | 3.00 HOUR |

** DENOTES FIXED PRICE ITEM

SOUTH MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH II-II, 2014

LOCATION 3 SR 1, COASTAL HWY, NB & SB (S50) FROM HMJ @ FIFTH ST. (BETHANY BEACH) TO HMJ NORTH OF 3R'S BEACH ENTRANCE.

COMMENTS:

1. RECOMMENDED M.O.T. CASE NO. TA-33, OPT. B (TRAVEL LANES).
CASE NO. TA-5B (SHOULDERS).
CASE NO. TA-29 (SIDEWALK).
2. NIGHTTIME WORK HOURS: 8:00PM TO 6:00AM.
3. SUMMER SEASON LANE CLOSURES ARE NOT PERMITTED BETWEEN MAY 19 TO SEPT. 8, 2014.
4. ON THE MAIN CONSTRUCTION ROAD AND ALL INTERSECTING ROADS, "ROAD WORK AHEAD AND END ROAD WORK" SIGNS FACING THE TRAFFIC SHALL BE PLACED AT 1500', 1000' AND 500' APPROACHING THE WORK ZONE. IN THOSE CASES, WHERE IT IS DIFFICULT TO MEET THE ABOVE CRITERIA BECAUSE OF DISTANCE LIMITATIONS, THE SIGN SHALL BE PLACED AS DIRECTED BY THE FIELD ENGINEER.
5. MULTI USE PATHS/BIKE LANES SHALL BE MAINTAINED THROUGH THE WORK ZONE FOR ALL LOCATIONS WHERE IT APPLIES AND SHALL BE CHANNELIZED FROM THE WORK ARE USING CONES.
6. COORDINATION WITH THE ADJACENT CONTRACTOR FOR THE INDIAN RIVER BRIDGE CONTRACTS NO. 26-073-03 (BRIDGE CONST.) AND 29-073-01 (EMBANKMENT, APPROACHES & ROADWAY) FOR M.O.T. LANE CLOSURES AND SIGNAGE MAY BE NECESSARY.
7. GABC ITEM 302005 AND QUANTITY IS FOR UNIMPROVED DRIVEWAYS.
8. TRM HOT-MIX ASPHALT SHALL BE USED ONLY, COLD-MIX ASPHALT (COLD PATCH) WILL NOT BE ACCEPTED.
9. 2" TAPER MILL IN FRONT OF EXISTING CURB.
10. A MATERIAL TRANSFER VEHICLE SHALL BE USED FOR MAINLINE PAVING OPERATIONS.
11. THE REMOVAL OF EXISTING RAISED PAVEMENT MARKERS SHALL BE INCIDENTAL TO THE OVERLAY INCLUDING PLACING BACK COMPACTED HOT-MIX MATERIAL TO FILL THE EXPOSED VOID.
12. FRED HUDSON ROAD - A FINAL FULL WIDTH TYPE C OVERLAY ON FRED HUDSON ROAD SHALL BE PLACED TO THE BEGINNING OF THE TURN LANE LIMITS TO BE COMPLETED DURING THE SR 1 PAVING OPERATIONS.

THIS LOCATION SHALL MEET THE TOLERANCES OF SUBSECTION 401580 - RIDE QUALITY OF HOT-MIX PAVEMENT REQUIREMENTS, AS SPECIFIED IN THE SPECIAL PROVISIONS.

CURB RAMP LOCATIONS

RT 1 @ THE SANCTUARY - 3

ADJUSTMENTS

- 1 - DELDOT
- 7 - WATER
- 19 - SUSSEX COUNTY SANITARY*
- 1 - OTHER

*IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ANY MANHOLE ADJUSTMENTS AND/OR REPAIRS AS PER THE SPECIFICATIONS OF THE SUSSEX COUNTY SANITARY DEPT. THE DETAIL CAN BE OBTAINED THRU THE SUSSEX COUNTY SEWER & WATER OFFICE IN GEORGETOWN, DE.

LOCATION 4 SR1, COASTAL HIGHWAY VARIOUS LOCATIONS BETWEEN FENWICK ISLAND AND INDIAN RIVER INLET BRIDGE.

COMMENTS:

1. RECOMMENDED M.O.T. CASE NO. TA-33, OPT. B (TRAVEL LANES).
CASE NO. TA-5B (SHOULDERS).
2. NIGHTTIME WORK HOURS: 8:00PM TO 6:00AM.
3. SUMMER SEASON LANE CLOSURES ARE NOT PERMITTED BETWEEN MAY 19 TO SEPT. 8, 2014.
4. ON THE MAIN CONSTRUCTION ROAD AND ALL INTERSECTING ROADS, "ROAD WORK AHEAD AND END" SIGNS FACING THE TRAFFIC SHALL BE PLACED AT 1500', 1000' AND 500' APPROACHING THE WORK ZONE. IN THOSE CASES, WHERE IT IS DIFFICULT TO MEET THE ABOVE CRITERIA BECAUSE OF DISTANCE LIMITATIONS, THE SIGN SHALL BE PLACED AS DIRECTED BY THE FIELD ENGINEER.
5. MULTI USE PATHS/BIKE LANES SHALL BE MAINTIANED THROUGH THE WORK ZONE FOR ALL LOCATIONS WHERE IT APPLIES AND SHALL BE CHANNELIZED FROM THE WORK ARE USING CONES.
6. TRM HOT-MIX ASPHALT SHALL BE USED ONLY, COLD-MIX ASPHALT (COLD PATCH) WILL NOT BE ACCEPTED.
7. REFERENCE ATTACHED SHEETS FOR CONSTRUCTION PLANS AND PAVEMENT DETAILS.
8. CROSS PIPE REPLACEMENT NOTES
 - A. THE COST FOR ANY DEWATERING AND PUMPING REQUIRED TO COMPLETE THIS PROJECT SHALL BE INCIDENTAL TO ITEMS 612003, 612005 AND 612009.
 - B. NO SURVEY DATA WILL BE PROVIDED. ALL SURVEY WORK REQUIRED TO COMPLETE THE CROSSPIPE REPLACEMENTS IS INCIDENTAL TO ITEM 763501 - CONSTRUCTION ENGINEERING. THIS INCLUDES ALL PIPES AND ALL OTHER MISCELLANEOUS WORK TO FULLY COMPLETE THE PROJECT.
 - C. THE CONTRACTOR SHALL MATCH THE EXISTING GRADES AND INVERTS FOR ALL PIPE REPLACEMENTS. ANY ADJUSTMENTS REQUIRED SHALL BE BY THE APPROVAL OF THE FIELD ENGINEER.
 - D. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY ANY/ALL UTILITIES PRIOR TO EXCAVATION. ANY DAMAGE INCURRED BY THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR/REPLACE.
 - E. PIPE TRENCH DEPTH VARIES; AVERAGE DEPTH OF TRENCH IS 4.39 FEET +/-.
8. REINFORCED CONCRETE PIPE JOINT REPAIR
 - A. THE COST FOR ANY DEWATERING AND PUMPING REQUIRED TO COMPLETE THE PIPE JOINT REPAIRS SHALL BE INCIDENTAL TO ITEM 208200.
 - B. NO SURVEY DATA WILL BE PROVIDED. ALL SURVEY WORK REQUIRED TO COMPLETE THE PIPE JOINT REPAIRS IS INCIDENTAL TO ITEM 763501 - CONSTRUCTION ENGINEERING.
 - C. THE CONTRACTOR SHALL MATCH THE EXISTING GRADES AND INVERTS FOR ALL PIPE REPLACEMENTS. ANY ADJUSTMENTS REQUIRED SHALL BE BY THE APPROVAL OF THE FIELD ENGINEER.
 - D. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY ANY/ALL UTILITIES PRIOR TO EXCAVATION. ANY DAMAGE INCURRED BY THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR/REPLACE.

SOUTH
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH II-II, 2014

LOCATION 4 SR1, COASTAL HIGHWAY VARIOUS LOCATIONS BETWEEN FENWICK ISLAND AND INDIAN RIVER INLET BRIDGE.

E. THE GEO-MESH WRAP COLLAR (SEE DETAIL SHEET PAGE 16) SHALL BE PLACED AROUND THE PIPE WITH A WELDED WIRE MESH AND APPROVED GEO-TEXTILE MATERIAL FASTENED SECURELY AROUND THE PIPE WITH EPOXY COATED TIE WIRE. THE COLLAR SHALL SURROUND THE LENGTH OF THE PIPE FAILURE (TOP, BOTTOM AND SIDES). ALL MATERIALS NEEDED (WELDED WIRE MESH, GEO-TEXTILE, FORMS, MORTAR, NON-SHRINK GROUT, ETC...) INCLUDING LABOR AND EQUIPMENT TO FULLY COMPLETE THE REPAIR SHALL BE INCIDENTAL TO ITEMS 208000.

F. IF A PIPE JOINT REPAIR IS LOCATED UNDER THE EXISTING PAVEMENT A CONCRETE COLLAR SHALL BE PLACED AROUND THE GEO-MESH WRAPPED PIPE WALL CONSISTING OF A 4x4 INCH WELDED WIRE MESH THAT IS OFFSET WITH A CEMENT BRICK AS REQUIRED WITH THE CONCRETE COLLAR. PAYMENT FOR THE P.C.C. COLLAR SHALL BE MADE UNDER ITEM 602603.

G. NO CONCRETE SHALL BE RELEASED OR PLACED UNTIL THE DEPTH AND THE CHARACTER OF THE FOUNDATION MATERIAL, THE ADEQUACY OF THE FORMS AND FALSE WORK, AND THE PLACING OF REINFORCMENTS HAVE BEEN INSPECTED AND APPROVED BY THE FIELD ENGINEER.

H. JOINT FAILURES LOCATED OUTSIDE THE SHOULDER PAVEMENT ARE NOT REQUIRED TO HAVE A CONCRETE COLLAR UNLESS THE PIPE IS OFFSET AND/OR AT THE DISCRETION OF THE FIELD ENGINEER.

I. ADDITIONAL PIPE JOINT REPAIRS NOT LISTED MAY BE REQUIRED THRU THE LIMITS OF THE PROJECT AS DIRECTED BY THE FIELD ENGINEER.

J. PIPE TRENCH DEPTH VARIES; AVERAGE DEPTH OF TRENCH IS 4.39 FEET +/-.

15. ADDITIONAL COMMENTS

A. THERE SEEMS TO BE AN EXISTING WATER MAIN LEAK LOCATED @ THE KINGS COURT AFFECTING BOTH SOUTHBOUND AND NORTHBOUND LANES OF SR1. VISIBLE DEPRESSIONS AND EXISTING HOT-MIX PATCHES. IT IS THE RESPONSIBILITY OF THE CORRESPONDING UTILITY TO ADDRESS THE ISSUE.

B. THERE SEEMS TO BE AN EXISTING SANITARY LINE LEAK LOCATED IN THE ENTRANCE TO SEATOWNE, VISIBLE DEPRESSION IN PAVEMENT. IT IS THE RESPONSIBILITY OF THE CORRESPONDING UTILITY TO ADDRESS THE ISSUE.

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201406302

PAGE 31 OF 35

SOUTH
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH II-II, 2014

LOCATION 5 PENNSYLVANIA AVENUE(S51) - (SOUTH BETHANY) FROM COASTAL HWY RT 1
(S50) TO SOUTH BETHANY TOWN LIMITS

LENGTH 606.552 m 1990 L.F. AADT 1718

GENERAL IMPROVEMENTS

HM PATCHING AND 1 1/4" WARM-MIX TYPE C (64-22,C) FULL WIDTH OVERLAY.

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 5

| | | |
|--------|--|-----------------|
| 302005 | GRADED AGGREGATE BASE COURSE, TYPE B | 50.00 TON |
| 401696 | ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE | 100.00 TON |
| 401823 | WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING | 700.00 TON |
| 401827 | WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON- CARBONATE STONE) | 800.00 TON |
| 406001 | WARM-MIX PATCHING | 11,400.00 SY-IN |
| 705007 | SIDEWALK SURFACE DETECTABLE WARNING SYSTEM | 40.00 S.F. |
| 705008 | CURB RAMP, TYPE 1 | 300.00 S.F. |
| 710002 | ADJUSTING AND REPAIRING EXISTING MANHOLE | 6.00 EACH |
| 732004 | TOPSOIL (TON) | 55.00 TON |
| 734013 | PERMANENT GRASS SEEDING, DRY GROUND | 670.00 S.Y. |
| 743003 | ARROW PANELS, TYPE C | 15.00 EA-DY |
| 743004 | FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN | 14.00 EA-DY |
| 743010 | FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II | 15.00 EA-DY |
| 743052 | ** FLAGGER, SUSSEX COUNTY, STATE | 451.00 HOUR |
| 743064 | ** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME | 68.00 HOUR |
| 746924 | FURNISH & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT | 200.00 L.F. |
| 748015 | PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC | 700.00 S.F. |
| 748019 | TEMPORARY MARKINGS, PAINT, 4" | 12,000.00 L.F. |
| 748026 | TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND | 700.00 S.F. |
| 748548 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5" | 12,000.00 L.F. |
| 760502 | PAVEMENT MILLING, TAPER CUT | 200.00 SY-IN |
| 761001 | BUTT JOINTS, HOT MIX | 900.00 S.Y. |
| 762001 | SAW CUTTING, HOT MIX | 800.00 L.F. |

** DENOTES FIXED PRICE ITEM

SOUTH
MAINTENANCE

PAVEMENT & REHABILITATION, SOUTH II-II, 2014

LOCATION 5 PENNSYLVANIA AVENUE(S51) - (SOUTH BETHANY) FROM COASTAL HWY RT 1 (S50)
TO SOUTH BETHANY TOWN LIMITS

COMMENTS:

1. RECOMMENDED M.O.T. CASE NO. TA-10 (TRAVEL LANES).
 . CASE NO. TA-6 (SHOULDERS).
 . CASE NO. TA-29 (SIDEWALK).
2. RESTRICTED WORK HOURS: 8:00AM TO 4:00PM
3. ~~SUMMER SEASON LANE CLOSURES ARE NOT PERMITTED BETWEEN MAY 19 TO SEPT. 8, 2014.~~
4. ON THE MAIN CONSTRUCTION ROAD AND ALL INTERSECTING ROADS, "ROAD WORK AHEAD AND END" SIGNS FACING THE TRAFFIC SHALL BE PLACED AT 1500', 1000' AND 500' APPROACHING THE WORK ZONE. IN THOSE CASES, WHERE IT IS DIFFICULT TO MEET THE ABOVE CRITERIA BECAUSE OF DISTANCE LIMITATIONS, THE SIGN SHALL BE PLACED AS DIRECTED BY THE FIELD ENGINEER.
5. MULTI USE PATHS/BIKE LANES SHALL BE MAINTIANED THROUGH THE WORK ZONE FOR ALL LOCATIONS WHERE IT APPLIES AND SHALL BE CHANNELIZED FROM THE WORK ARE USING CONES.
6. GABC ITEM 302005 AND QUANTITY IS FOR UNIMPROVED DRIVEWAYS.

CURB RAMP LOCATIONS

WILMINGTON TRUST - 2
SEA COLONY - 2

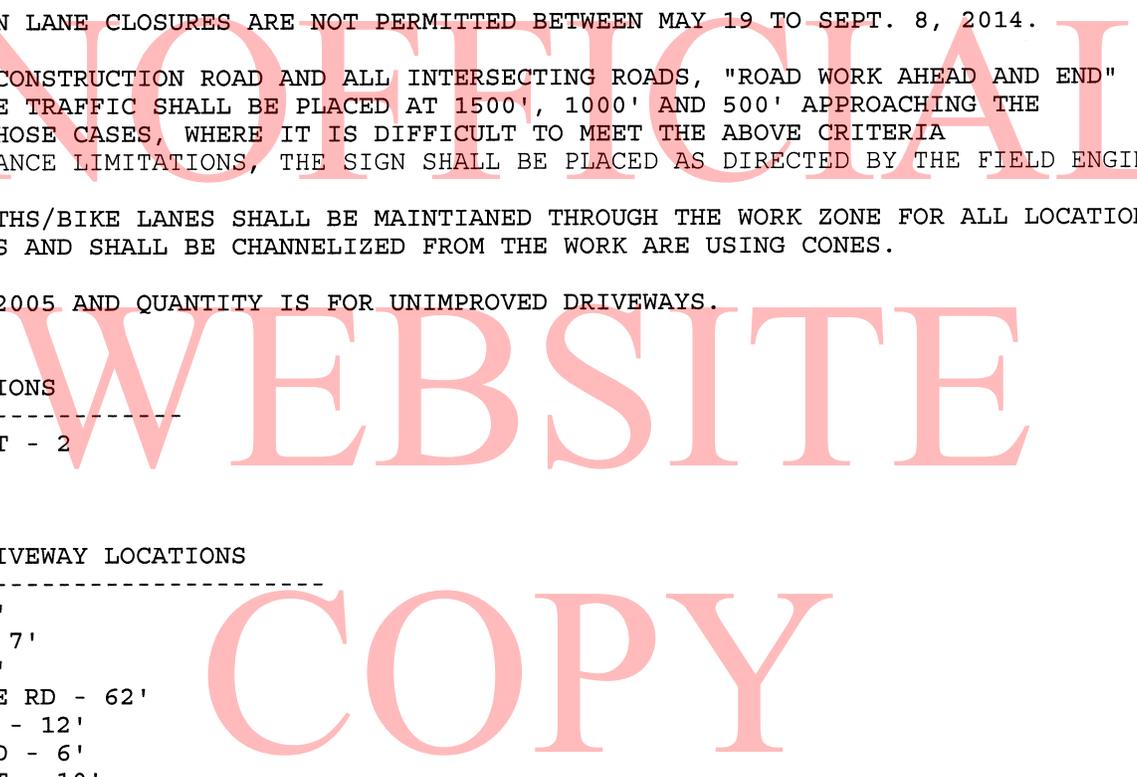
ENTRANCE AND DRIVEWAY LOCATIONS

SEA COLONY - 11'
LOFTLAND LANE - 7'
SOURWOOD DR - 8'
JEFFERSON BRIDGE RD - 62'
SUMMER PLACE CT - 12'
HICKMAN PLAZA RD - 6'
WILMINGTON TRUST - 10'

ADJUSTMENTS

6 - SUSSEX COUNTY SANITARY*

*IT IS THE RESPONSIBILTY OF THE CONTRACTOR TO PERFORM ANY MANHOLE ADJUSTMENTS AND/OR REPAIRS AS PER THE SPECIFICATIONS OF THE SUSSEX COUNTY SANITARY DEPT. THE DETAIL CAN BE OBTAINED THRU THE SCSW OFFICE IN GEORGETOWN.



DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT: T201406302

PAGE 33 OF 35

SOUTH PAVEMENT & REHABILITATION, SOUTH II-II, 2014
MAINTENANCE

CONTRACT QUANTITIES SUMMARY SHEET

| | | |
|--------|--|-----------------|
| 202000 | EXCAVATION AND EMBANKMENT | 175.00 C.Y. |
| 208000 | EXCAVATION AND BACKFILLING FOR PIPE TRENCHES | 312.00 C.Y. |
| 209002 | BORROW, TYPE B | 125.00 C.Y. |
| 210000 | FURNISHING BORROW TYPE "C" FOR PIPE, UTILITY TRENCH, AND STRUCTURE BACKFILL | 236.00 C.Y. |
| 212000 | UNDERCUT EXCAVATION | 125.00 C.Y. |
| 251001 | REINFORCED SILT FENCE | 500.00 L.F. |
| 302005 | GRADED AGGREGATE BASE COURSE, TYPE B | 250.00 TON |
| 302007 | GRADED AGGREGATE BASE COURSE, TYPE B | 82.00 C.Y. |
| 302008 | GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING | 96.00 C.Y. |
| 401696 | ENTRANCE, DRIVEWAY AND INTERSECTING STREET PAVING SURCHARGE | 900.00 TON |
| 401810 | BITUMINOUS CONCRETE, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22 | 63.00 TON |
| 401819 | WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22 | 63.00 TON |
| 401821 | WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING | 48.00 TON |
| 401822 | WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING | 96.00 TON |
| 401823 | WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING | 2,723.00 TON |
| 401827 | WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON-CARBONATE STONE) | 40,930.00 TON |
| 402000 | HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM) | 150.00 TON |
| 406001 | WARM-MIX PATCHING | 49,890.00 SY-IN |
| 602603 | HIGH EARLY STRENGTH CONCRETE | 12.00 C.Y. |
| 612030 | REINFORCED CONCRETE PIPE, 18", CLASS V | 140.00 L.F. |
| 612031 | REINFORCED CONCRETE PIPE, 24", CLASS V | 70.00 L.F. |
| 612039 | REINFORCED CONCRETE PIPE, 36" CLASS V | 185.00 L.F. |
| 617003 | REINFORCED CONCRETE FLARED END SECTION, 18" | 2.00 EACH |
| 617005 | REINFORCED CONCRETE FLARED END SECTION, 24" | 1.00 EACH |
| 617009 | REINFORCED CONCRETE FLARED END SECTION, 36" | 3.00 EACH |
| 705007 | SIDEWALK SURFACE DETECTABLE WARNING SYSTEM | 240.00 S.F. |
| 705008 | CURB RAMP, TYPE 1 | 525.00 S.F. |
| 705009 | CURB RAMP, TYPE 2, 3, AND/OR 4 | 630.00 S.F. |

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT: T201406302

PAGE 34 OF 35

SOUTH PAVEMENT & REHABILITATION, SOUTH II-II, 2014
MAINTENANCE

CONTRACT QUANTITIES SUMMARY SHEET

| | | |
|--------|--|-----------------|
| 705010 | CURB RAMP, TYPE 5 | 360.00 S.F. |
| 705530 | TRIANGULAR CHANNELIZING ISLANDS | 630.00 S.F. |
| 708060 | REPLACE DRAINAGE INLET GRATE(S) | 2.00 EACH |
| 708061 | REPLACE DRAINAGE INLET FRAME(S) | 2.00 EACH |
| 710001 | ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET | 2.00 EACH |
| 710002 | ADJUSTING AND REPAIRING EXISTING MANHOLE | 46.00 EACH |
| 732002 | TOPSOIL, 6" DEPTH | 50.00 S.Y. |
| 732004 | TOPSOIL (TON) | 1,952.00 TON |
| 734013 | PERMANENT GRASS SEEDING, DRY GROUND | 24,343.00 S.Y. |
| 743003 | ARROWPANELS, TYPE C | 160.00 EA-DY |
| 743004 | FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN | 112.00 EA-DY |
| 743005 | FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY | 550.00 EA-DY |
| 743007 | ** TRAFFIC OFFICERS | 1,400.00 HOUR |
| 743010 | FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II | 161.00 EA-DY |
| 743052 | ** FLAGGER, SUSSEX COUNTY, STATE | 4,461.00 HOUR |
| 743064 | ** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME | 663.00 HOUR |
| 744541 | FURNISH & INSTALL FRAME AND LID FOR JUNCTION WELL, TYPE 11 | 4.00 EACH |
| 744542 | FURNISH & INSTALL FRAME AND LID FOR JUNCTION WELL, TYPE 14 | 1.00 EACH |
| 745602 | FURNISH & INSTALL UP TO 4" SCHEDULE 80 HDPE CONDUIT (BORE) | 265.00 L.F. |
| 745604 | FURNISH & INSTALL UP TO 4" SCHEDULE 80 PVC CONDUIT (TRENCH) | 15.00 L.F. |
| 746850 | POLE BASE, TYPE 4 | 5.00 EACH |
| 746924 | FURNISH & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT | 1,150.00 L.F. |
| 748015 | PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC | 4,910.00 S.F. |
| 748019 | TEMPORARY MARKINGS, PAINT, 4" | 223,790.00 L.F. |
| 748026 | TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND | 3,700.00 S.F. |
| 748502 | RAISED/RECESSED PAVEMENT MARKER | 849.00 EACH |
| 748548 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5" | 225,020.00 L.F. |
| 748553 | PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL | 112.00 EACH |

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT: T201406302

PAGE 35 OF 35

SOUTH PAVEMENT & REHABILITATION, SOUTH II-II, 2014
MAINTENANCE

CONTRACT QUANTITIES SUMMARY SHEET

| | | |
|--------|--|------------------|
| 748554 | PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, PEDESTRIAN SYMBOL | 109.00 EACH |
| 760012 | RUMBLE STRIPS, BIKE-FRIENDLY, HOT-MIX | 135,740.00 L.F. |
| 760502 | PAVEMENT MILLING, TAPER CUT | 3,200.00 SY-IN |
| 760507 | PROFILE MILLING, HOT-MIX | 112,640.00 SY-IN |
| 761001 | BUTT JOINTS, HOT MIX | 3,540.00 S.Y. |
| 762001 | SAW CUTTING, HOT MIX | 8,300.00 L.F. |
| 763000 | INITIAL EXPENSE | LUMP SUM |
| 763501 | CONSTRUCTION ENGINEERING | 1.00 L.S. |
| 763621 | CONSTRUCTION ENGINEERING, REHABILITATION | 3.00 HOUR |
| 763643 | MAINTENANCE OF TRAFFIC, ALL INCLUSIVE | LUMP SUM |

** DENOTES FIXED PRICE ITEM

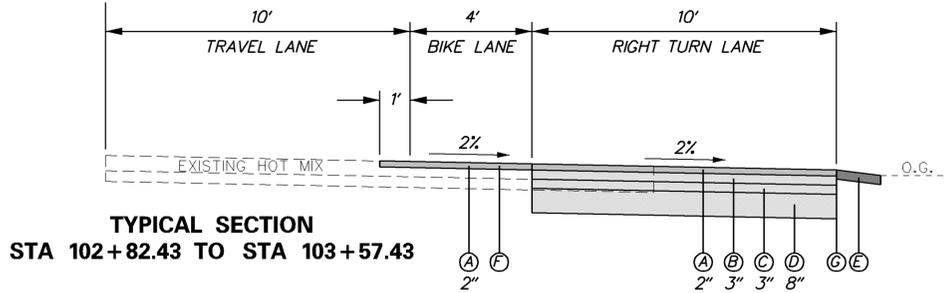
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| CONSTRUCTION ALIGNMENT CONTROL | | | | |
|--------------------------------|-----------|--------|-------------|-------------|
| POINT | STATION | OFFSET | NORTHING | EASTING |
| 10000 | 100+00.00 | 0.00 | 202545.8528 | 757387.5673 |
| 10001 | 107+35.00 | 0.00 | 202579.5827 | 758121.7927 |

| COORDINATE LIST | | | | |
|-----------------|-----------|--------|-------------|-------------|
| POINT NO. | STATION | OFFSET | NORTHING | EASTING |
| 20000 | 102+82.43 | 9.00' | 202549.8231 | 757670.1078 |
| 20001 | 103+57.43 | 14.00' | 202548.2702 | 757745.2583 |
| 20002 | 102+82.43 | 24.00' | 202534.8389 | 757670.7962 |
| 20003 | 102+82.43 | 14.00' | 202544.8284 | 757670.3373 |
| 20004 | 103+57.43 | 17.00' | 202545.2734 | 757745.3960 |
| 20005 | 107+01.17 | 9.00' | 202569.0399 | 758088.4144 |
| 20006 | 107+01.17 | 20.68' | 202557.3701 | 758088.9505 |
| 20007 | 107+13.06 | 32.98' | 202545.6294 | 758101.3925 |
| 20008 | 107+31.85 | 32.98' | 202546.4914 | 758120.1564 |
| 20009 | 107+15.36 | 52.46' | 202526.2779 | 758104.5845 |
| 20010 | 107+31.85 | 55.87' | 202523.6245 | 758121.2069 |
| 20011 | 107+09.56 | 56.37' | 202522.1079 | 758098.9616 |
| 20012 | 107+14.47 | 64.72' | 202513.9874 | 758104.2528 |

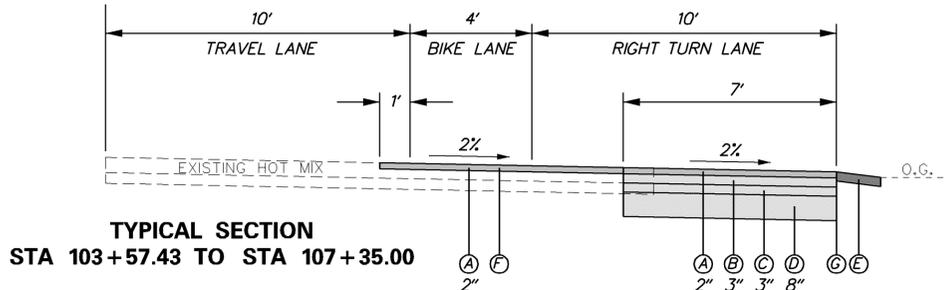
- NOTE:
- FIELD SURVEY NOT PERFORMED IN THIS LOCATION. COORDINATES PROVIDED ARE BASED ON AERIAL INFORMATION AND ARE RELATIVE TO THE PROPOSED CONSTRUCTION ALIGNMENT POINTS GIVEN. ALL EXISTING LINework BASED ON AERIAL INFORMATION.
 - EXISTING RIGHT-OF-WAY INFORMATION BASED ON SUSSEX COUNTY TAX PARCEL MAP.

PROPOSED CONSTRUCTION BASELINE
(DOUBLE YELLOW CENTER STRIPING)



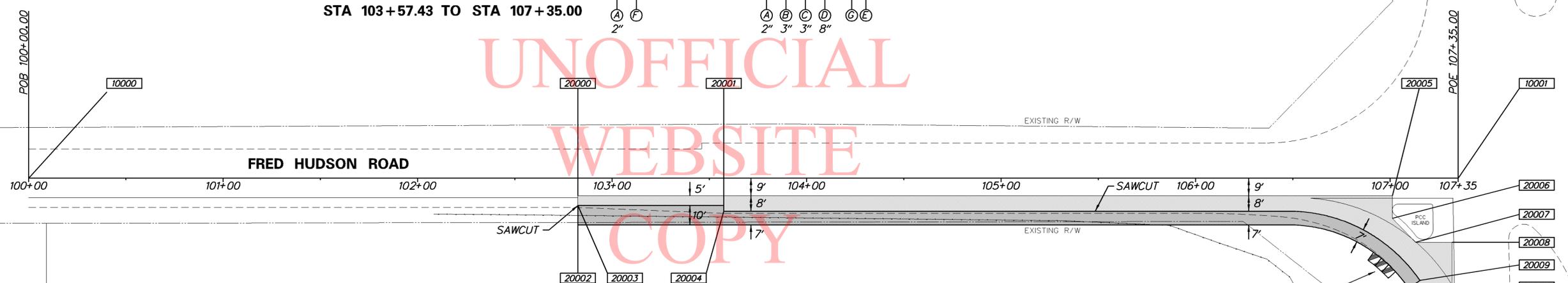
TYPICAL SECTION
STA 102+82.43 TO STA 103+57.43

PROPOSED CONSTRUCTION BASELINE
(DOUBLE YELLOW CENTER STRIPING)



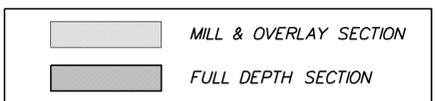
TYPICAL SECTION
STA 103+57.43 TO STA 107+35.00

| LEGEND | |
|--------|---|
| (A) | ITEM 401827: WMA, SUPERPAVE, TYPE C, 160 GYRATIONS PG 64-22 (NON-CARBONATE STONE) |
| (B) | ITEM 401810: WMA, SUPERPAVE, TYPE B, 160 GYRATIONS PG 64-22 |
| (C) | ITEM 401819: WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22 |
| (D) | ITEM 302007: GRADED AGGREGATE BASE COURSE, TYPE B |
| (E) | ITEM 732002: TOPSOIL, 6" DEPTH ITEM 734013: PERMANENT GRASS SEEDING, DRY GROUND |
| (F) | ITEM 760507: PROFILE MILLING, HOT MIX, 2" DEPTH |
| (G) | ITEM 401752: SAFETY EDGE |

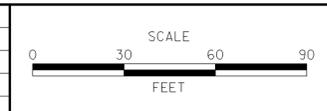


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| ADDENDUMS / REVISIONS |
|-----------------------|
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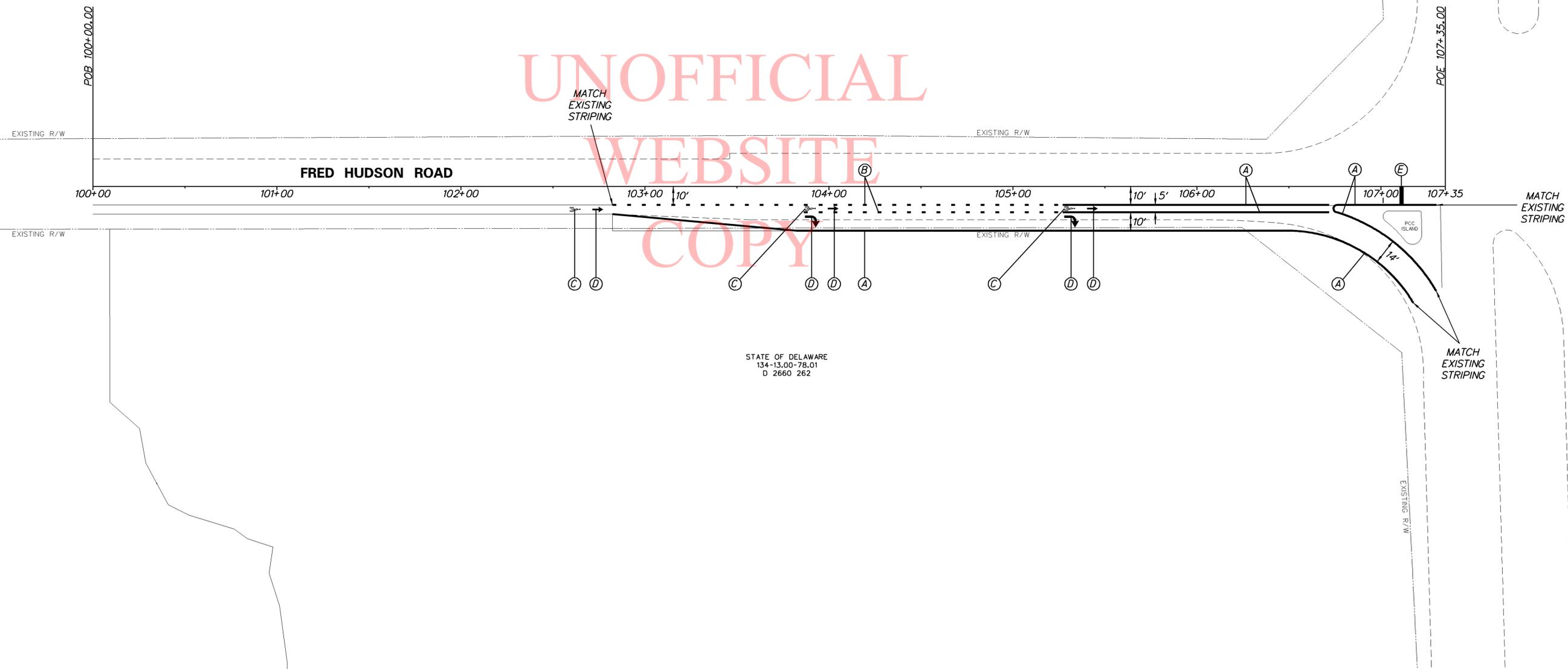


| | |
|------------------------|-------------------|
| CONTRACT T201406302 | BRIDGE NO. N/A |
| COUNTY SUSSEX | DESIGNED BY: BJB |
| | CHECKED BY: |

| PAVEMENT MARKINGS LEGEND | | |
|--------------------------|---|----------|
| SYMBOL | ITEM | QUANTITY |
| (A) | EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548) | 871 LF |
| (B) | EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" DOTTED - 2' LINE & 6' GAP (ITEM 748548) | 97 LF |
| (C) | PREFORMED THERMOPLASTIC PAVEMENT MARKING WHITE, BIKE SYMBOL (748553) | 3 EACH |
| (D) | ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND, (ITEM 748015) | 69 SF |
| (E) | ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 748015) | 14 SF |

NOTE:

1. SURVEY NOT PERFORMED IN THIS LOCATION. PROPOSED STRIPING IS BASED ON AERIAL INFORMATION AND IS RELATIVE TO THE PROPOSED CONSTRUCTION ALIGNMENT POINTS GIVEN. ALL EXISTING LINEWORK BASED ON AERIAL INFORMATION.
2. EXISTING RIGHT-OF-WAY INFORMATION BASED ON SUSSEX COUNTY TAX PARCEL MAP.



W:\MSV8\CELLS\PROJDEV\SB\CEL

| | | | | | | | | |
|---|-----------------------|--|--|------------|------------------|------------|-----------------------------|-------------|
| <p>DELAWARE DEPARTMENT OF TRANSPORTATION</p> | ADDENDUMS / REVISIONS | <p>SCALE</p> <p>0 30 60 90</p> <p>FEET</p> | <p>PAVEMENT & REHABILITATION SOUTH II-II FRED HUDSON ROAD</p> | CONTRACT | BRIDGE NO. | N/A | <p>STRIPING PLAN</p> | SHEET NO. |
| | | | | T201406302 | DESIGNED BY: BJB | | | 2 |
| | | | | SUSSEX | CHECKED BY: | | | TOTAL SHTS. |
| | | | | | | | 4 | |

ENVIRONMENTAL COMPLIANCE NOTES



1. GENERAL NOTES:

- A. THE PURPOSE OF THIS SHEET IS TO IDENTIFY THOSE ITEMS ASSOCIATED WITH ENVIRONMENTAL COMPLIANCE. IMPACT CALCULATIONS ARE FOR THE AGENCY PERMIT REPORTING PURPOSES ONLY AND ARE NOT TO BE USED FOR BIDDING PURPOSES.
- B. IF A DEPARTURE FROM THE APPROVED PLANS (WHICH WOULD AFFECT ANY NATURAL AND/OR CULTURAL RESOURCES) IS NECESSARY, THE ENVIRONMENTAL STUDIES SECTION SHALL BE CONTACTED AT (302)760-2264 TO ALLOW FOR COORDINATION WITH THE APPROPRIATE RESOURCE AGENCIES AND APPROVAL.
- C. USE OF THIS SHEET DOES NOT ALLEVIATE THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL CONDITIONS SET FORTH IN THE ENVIRONMENTAL STATEMENT AND PERMITS.

2. NATURAL RESOURCE ISSUES:

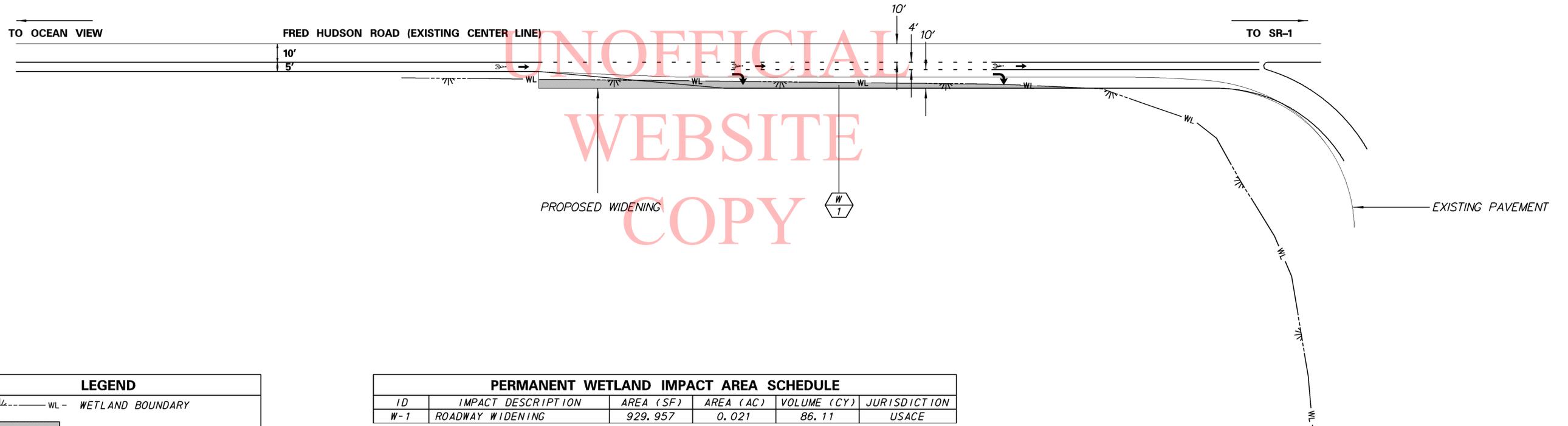
- A. PERMIT REQUIREMENTS/APPROVALS**
 U.S. ARMY CORPS OF ENGINEERS (COE): NWP 18 WITH PCN **
 DNREC - WATER QUALITY (WQC) & COASTAL ZONE CONSISTENCY (CZM):
 - * THE PERMITS/APPROVALS LISTED ARE THOSE REQUIRED FOR THIS PROJECT. THE ENVIRONMENTAL STUDIES SECTION IS RESPONSIBLE FOR COORDINATING AND/OR OBTAINING THIS APPROVAL.
 - ** THE CONTRACTOR MUST ENSURE THAT THESE PERMITS/APPROVALS ARE IN THEIR POSSESSION PRIOR TO BEGINNING CONSTRUCTION IN THE PERMITTED AREA(S) AND ENSURE IT IS DISPLAYED ON-SITE DURING THE ENTIRE CONSTRUCTION PERIOD.
- B. CONSTRUCTION RESTRICTIONS:
 FISHERIES - NONE
 ENDANGERED SPECIES - NONE
 MIGRATORY BIRDS - NONE

3. CULTURAL RESOURCE ISSUES:

"THIS PROJECT HAS BEEN REVIEWED BY DELDOT QUALIFIED CULTURAL RESOURCE STAFF. THERE ARE NO CULTURAL RESOURCE CONCERNS OR ISSUES BASED ON THE ANTICIPATED WETLAND IMPACT AND FOR THE ENTIRE PROJECT LIMITS FOR WHICH THIS PROJECT TAKES PLACE. IN ADDITION, THIS PROJECT IS CONSISTENT WITH DELDOT'S PROGRAMMATIC AGREEMENT FOR PROJECTS AND UNDERTAKINGS THAT ARE EXEMPT FROM FURTHER CULTURAL RESOURCE COMPLIANCE REVIEW AND SECTION 106 CONSULTATION (STIPULATION 11.B.15. AND 16.). SHOULD THE US ARMY CORPS OF ENGINEERS (CORPS) RECOGNIZE THE DELDOT PROGRAMMATIC AGREEMENT WITH SHPO AS A MEANS TO ASSURE THAT CULTURAL RESOURCE COMPLIANCE MEASURES ARE CLEAR, NO OTHER SECTION 106 COORDINATION OR COMPLIANCE IS NECESSARY. IF NEEDED, A 'FINDING OF NO HISTORIC PROPERTIES AFFECTED' OR 'NO EFFECT' CAN BE ISSUED BY OR ON BEHALF OF THE CORPS.

4. CLEARING IN WETLAND AREAS:

A. CLEARING IN WETLAND AREAS SHALL BE KEPT TO A MINIMUM ABSOLUTELY NECESSARY FOR CONSTRUCTION ACCESS. IN WETLAND AREAS THAT ARE CLEARED, THERE SHALL BE NO GRUBBING EXCEPT WHERE NECESSARY TO CONSTRUCT PROJECT COMPONENTS SUCH AS EMBANKMENT FOR ROADWAY WIDENING. VEGETATION SHALL BE CUT FLUSH WITH THE GROUND (I.E. NO DISTURBANCE OF THE ROOT MAT)

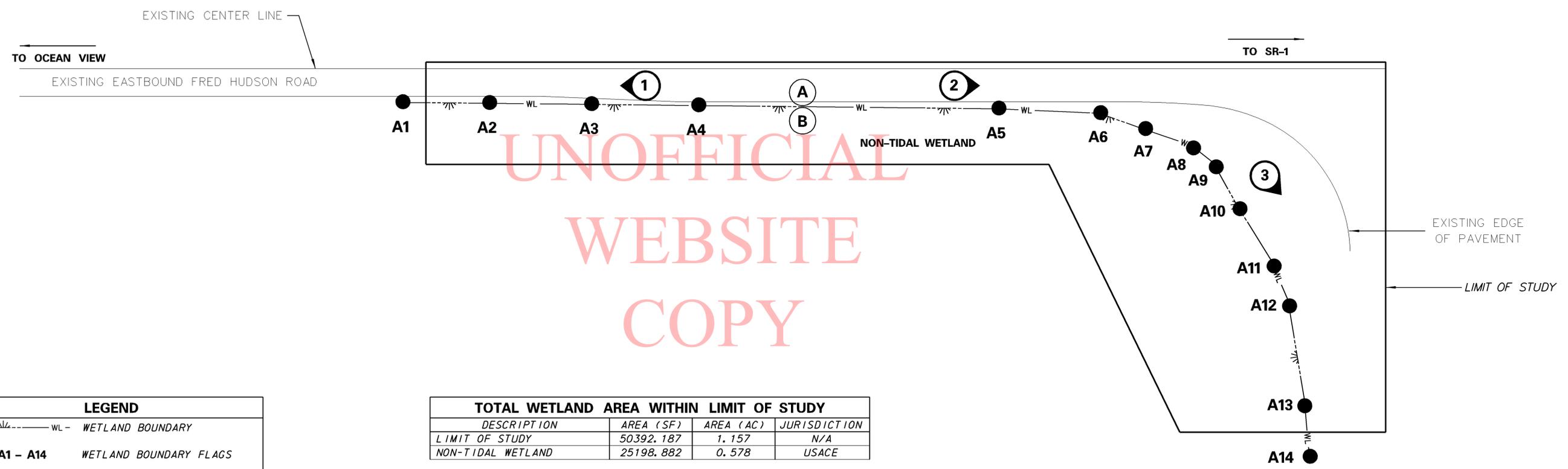


| LEGEND | |
|--------------------|---|
| | WL - WETLAND BOUNDARY |
| | PERMANENT IMPACT AREA |
| | IMPACT AREA TYPE ID. (SEE BELOW) IMPACT AREA ID. AND/OR NUMBER |
| W = WETLAND IMPACT | |

| PERMANENT WETLAND IMPACT AREA SCHEDULE | | | | | |
|--|--------------------|-----------|-----------|-------------|--------------|
| ID | IMPACT DESCRIPTION | AREA (SF) | AREA (AC) | VOLUME (CY) | JURISDICTION |
| W-1 | ROADWAY WIDENING | 929.957 | 0.021 | 86.11 | USACE |
| TOTAL FOR THIS SHEET | | 929.957 | 0.021 | 86.11 | USACE |
| TOTAL PERMANENT WETLAND IMPACTS | | 929.957 | 0.021 | 86.11 | USACE |

ORIGINAL SHEET PREPARED BY BRYAN BEHRENS ON 04-05-2012. SHEET LAST UPDATED ON 06-14-2012.

WETLANDS DELINEATED BY ERI IN MARCH, 2012 IN ACCORDANCE WITH THE US ARMY CORPS OF ENGINEERS "CORPS OF ENGINEERS WETLAND DELINEATION MANUAL & REGIONAL SUPPLEMENT (1987)".



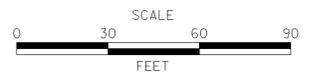
UNOFFICIAL
WEBSITE
COPY

| LEGEND | |
|------------|---|
| | WETLAND BOUNDARY |
| ● A1 - A14 | WETLAND BOUNDARY FLAGS |
| Ⓐ | WETLAND DELINEATION DATA SHEET AND PHOTO LOCATION |
| ⓧ | WETLAND DELINEATION PHOTO LOCATION |
| — | LIMIT OF STUDY |

| TOTAL WETLAND AREA WITHIN LIMIT OF STUDY | | | |
|--|-----------|-----------|--------------|
| DESCRIPTION | AREA (SF) | AREA (AC) | JURISDICTION |
| LIMIT OF STUDY | 50392.187 | 1.157 | N/A |
| NON-TIDAL WETLAND | 25198.882 | 0.578 | USACE |

ORIGINAL SHEET PREPARED BY BRYAN BEHRENS ON 05-29-2012. SHEET LAST UPDATED ON 05-30-2012.
WETLANDS DELINEATED BY ERI IN MARCH, 2012 IN ACCORDANCE WITH THE US ARMY CORPS OF ENGINEERS "CORPS OF ENGINEERS WETLAND DELINEATION MANUAL & REGIONAL SUPPLEMENT (1987)".

| ADDENDUMS / REVISIONS | |
|-----------------------|--|
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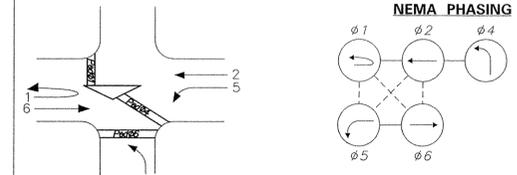
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| CONTRACT | BRIDGE NO. | N/A |
| T201406302 | DESIGNED BY: BJB | |
| COUNTY | CHECKED BY: PM | |
| SUSSEX | | |

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|-------------|
| WD-01 |
| SHEET NO. |
| 4 |
| TOTAL SHTS. |
| 4 |

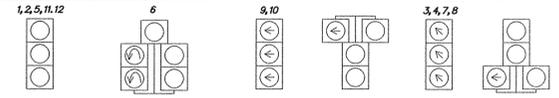
ADDITIONAL NOTES:

- THE CONTRACTOR SHALL INSTALL A TUBULAR MARKER(FLEXI-POST) ON ALL THREE CORNERS OF THE CHANNELIZING ISLANDS AS SHOWN. EACH TUBULAR MARKER SHALL BE RETROREFLECTORIZED IN ACCORDANCE WITH SECTION 6F.60 OF DELDOT MUTCD.
- REPLACE TYPE 1 JUNCTION WELL WITH TYPE 14.

SIGNAL PHASING



SIGNAL HEAD DIAGRAM



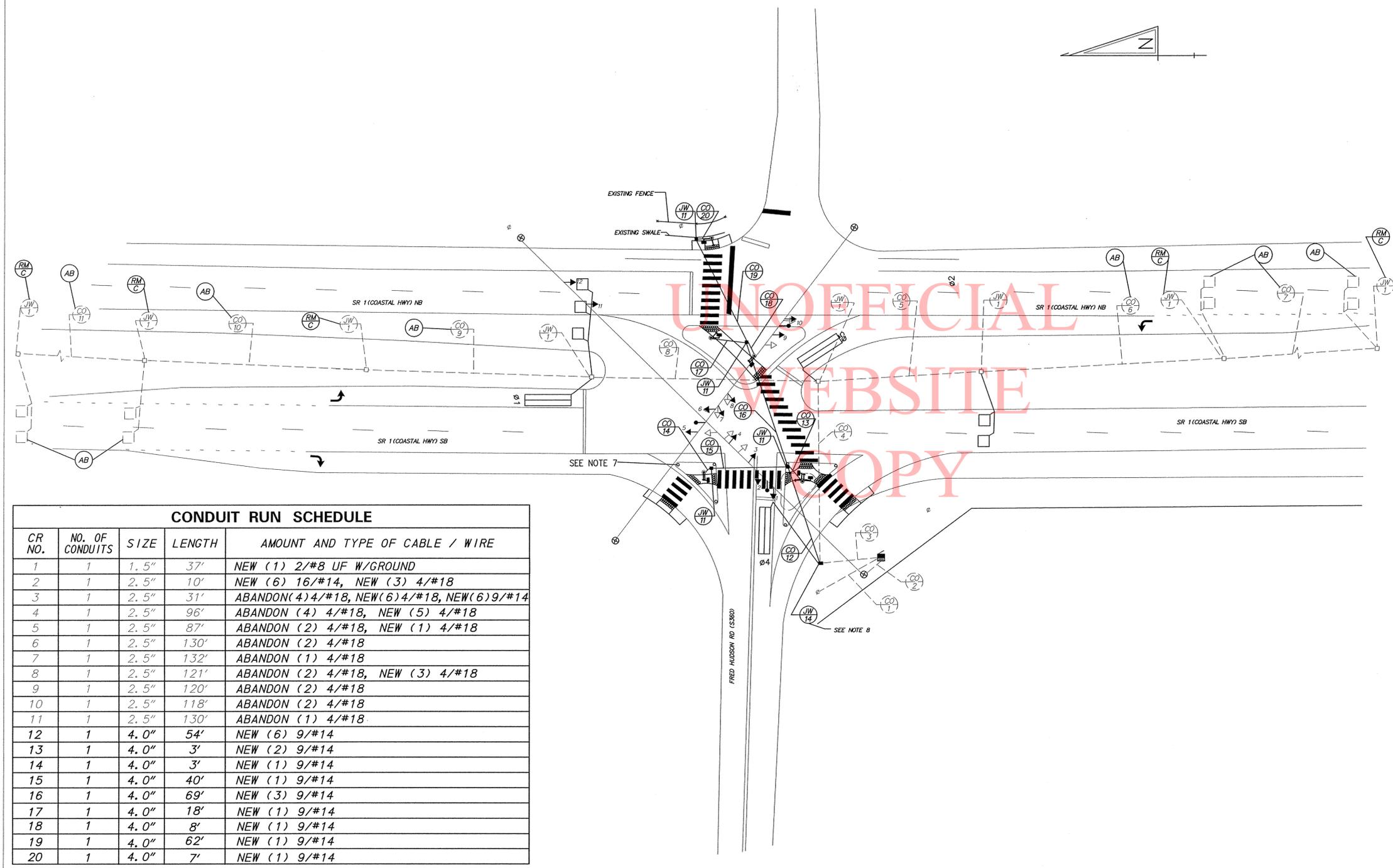
LEGEND

| | | | |
|------|---|------|--|
| (AB) | ABANDON | (OH) | EXISTING OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN) |
| (CA) | EXISTING CABINET IDENTIFIER (TYPE OF CABINET) | (OH) | PROPOSED OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN) |
| (CA) | PROPOSED CABINET IDENTIFIER (TYPE OF CABINET) | (PB) | EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE) |
| (CO) | EXISTING CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN) | (PB) | PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE) |
| (CO) | PROPOSED CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN) | (PL) | EXISTING POLE IDENTIFIER (* OF POLE) |
| (JW) | EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL) | (PL) | PROPOSED POLE IDENTIFIER (* OF POLE) |
| (JW) | PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL) | (RM) | REMOVE BY CONTRACTOR |
| (MA) | EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM) | (RM) | REMOVE BY OTHERS |
| (MA) | PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM) | (RM) | REMOVE BY TRAFFIC CONTRACTOR |

| | EXISTING SYMBOL | PROPOSED SYMBOL |
|------------------------|-----------------|-----------------|
| JUNCTION WELL | J.W. | ■ |
| LOOP DETECTOR, TYPE 1 | □ | □ |
| LOOP DETECTOR, TYPE 2 | □ | □ |
| LUMINAIRE | ⤴ | ⤴ |
| MAST ARM | ⤴ | ⤴ |
| MICROWAVE DETECTION | ⤴ | ⤴ |
| OPTICOM RECEIVER | ○ | ○ |
| OVERHEAD SIGNING | ⤴ | ⤴ |
| PEDESTRIAN POLE/BASE | ⊙ | ⊙ |
| PEDESTRIAN PUSHBUTTON | → | → |
| PEDESTRIAN SIGNAL HEAD | → | → |
| RIGHT-OF-WAY | --- | ---R/W--- |
| SERVICE PEDESTAL | ⊞ | ⊞ |
| SIGNAL CABINET | ⊞ | ⊞ |
| SIGNAL HEAD | → | → |
| SIGNAL POLE/BASE | ⊙ | ⊙ |
| SPAN INSULATOR | ◇ | ◇ |
| SPAN WIRE | —XX— | —XX— |
| UTILITY POLE | ⊙ | ⊙ |
| VIDEO DETECTION | ⊞ | ⊞ |

GENERAL SIGNAL NOTES

- ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO DELDOT TRAFFIC - DOVER, DELAWARE.
- POLE BASES, CABINET BASE AND CONDUIT JUNCTION WELLS TO BE REMOVED IN ACCORDANCE WITH SECTION 201 AND 202 OF THE STANDARD SPECIFICATIONS OR AS DIRECTED BY ENGINEER. EXISTING CONDUIT IS TO BE ABANDONED.
- ALL GALVANIZED CONDUIT (GRC) SHALL BE REAMED AND THREADED. ALL GRC SHALL BE THREADED TOGETHER WITH APPROVED COUPLINGS, SET SCREW, BOLTED, AND COMPRESSION FITTING ARE NOT ACCEPTABLE.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY, AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.
- ALL PEDESTRIAN POLES SHALL CONTAIN PEDESTRIAN COUNTDOWN DISPLAYS.
- THE PROPOSED POLE BASE TYPE 4 AND PEDESTAL POLE FOR THE PROPOSED SIGNAL SHALL BE CONSTRUCTED IMMEDIATELY ADJACENT TO LANDING AREA OF THE CURB RAMP OR SIDEWALK IN ACCORDANCE WITH CURRENT ADA BEST PRACTICES. THE PEDESTRIAN PUSH BUTTON SHALL BE INSTALLED AT A HEIGHT OF 42 INCHES ABOVE LANDING AREA/SIDEWALK AND SHALL BE LOCATED SUCH THAT MAXIMUM REACH DISTANCE IS 10 INCHES FROM THE SIDEWALK.



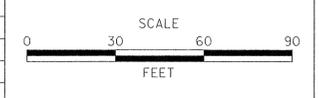
CONDUIT RUN SCHEDULE

| CR NO. | NO. OF CONDUITS | SIZE | LENGTH | AMOUNT AND TYPE OF CABLE / WIRE |
|--------|-----------------|------|--------|---|
| 1 | 1 | 1.5" | 37' | NEW (1) 2/#8 UF W/GROUND |
| 2 | 1 | 2.5" | 10' | NEW (6) 16/#14, NEW (3) 4/#18 |
| 3 | 1 | 2.5" | 31' | ABANDON (4) 4/#18, NEW (6) 4/#18, NEW (6) 9/#14 |
| 4 | 1 | 2.5" | 96' | ABANDON (4) 4/#18, NEW (5) 4/#18 |
| 5 | 1 | 2.5" | 87' | ABANDON (2) 4/#18, NEW (1) 4/#18 |
| 6 | 1 | 2.5" | 130' | ABANDON (2) 4/#18 |
| 7 | 1 | 2.5" | 132' | ABANDON (1) 4/#18 |
| 8 | 1 | 2.5" | 121' | ABANDON (2) 4/#18, NEW (3) 4/#18 |
| 9 | 1 | 2.5" | 120' | ABANDON (2) 4/#18 |
| 10 | 1 | 2.5" | 118' | ABANDON (2) 4/#18 |
| 11 | 1 | 2.5" | 130' | ABANDON (1) 4/#18 |
| 12 | 1 | 4.0" | 54' | NEW (6) 9/#14 |
| 13 | 1 | 4.0" | 3' | NEW (2) 9/#14 |
| 14 | 1 | 4.0" | 3' | NEW (1) 9/#14 |
| 15 | 1 | 4.0" | 40' | NEW (1) 9/#14 |
| 16 | 1 | 4.0" | 69' | NEW (3) 9/#14 |
| 17 | 1 | 4.0" | 18' | NEW (1) 9/#14 |
| 18 | 1 | 4.0" | 8' | NEW (1) 9/#14 |
| 19 | 1 | 4.0" | 62' | NEW (1) 9/#14 |
| 20 | 1 | 4.0" | 7' | NEW (1) 9/#14 |

RECOMMENDED _____ DATE: _____ RECOMMENDED c Dane DATE: 10/16/13 RECOMMENDED _____ DATE: _____ APPROVED TRAFFIC ENGINEER Mon C. Hite DATE: 10/13/13 APPROVED FOR INSTALLATION CHIEF TRAFFIC ENGINEER Neil J. ... DATE: 10/14/13



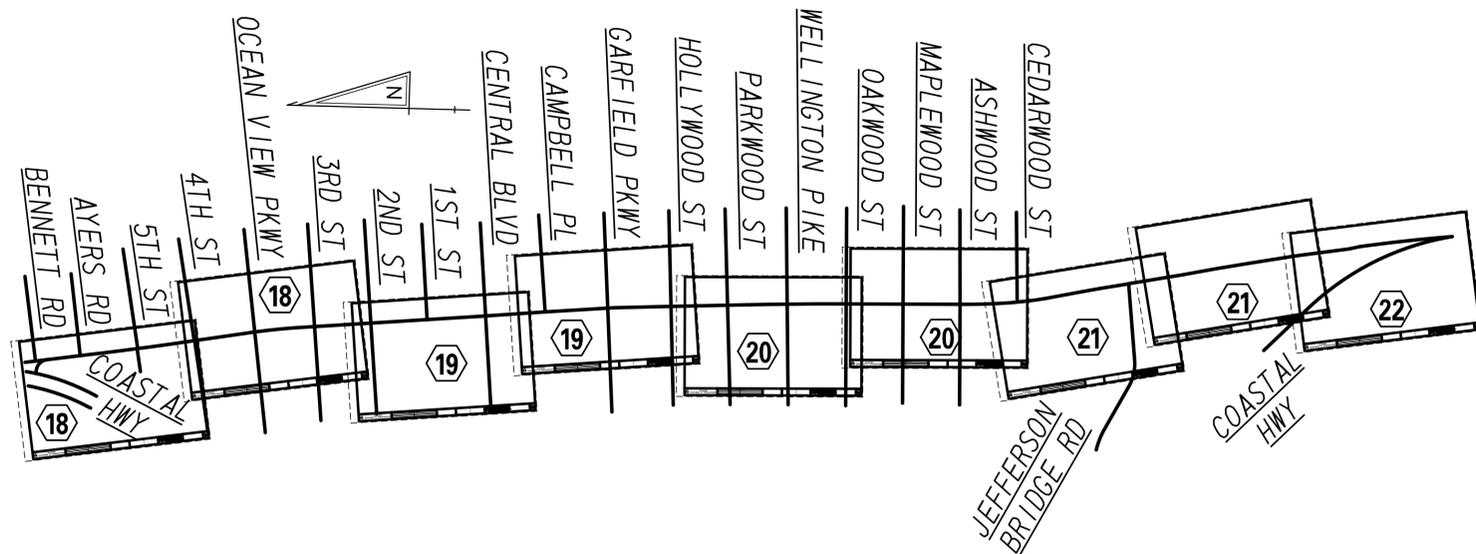
| ADDENDUM / REVISIONS |
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PAVEMENT & REHAB, SOUTH II-II

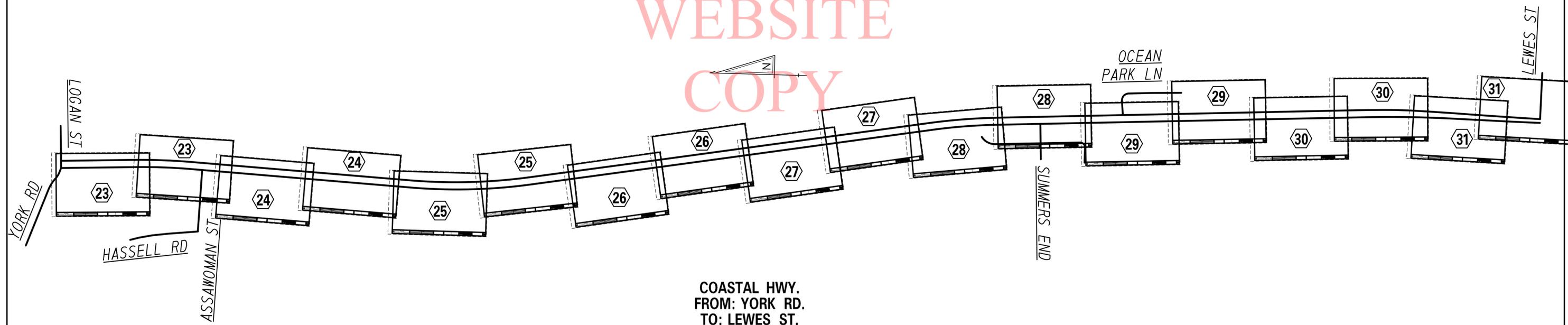
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|---------------------|------------------|-------|---------------|
| CONTRACT T201406302 | PERMIT NO. | S-184 | SHEET NO. 1 |
| COUNTY SUSSEX | DESIGNED BY: DLH | CBD | TOTAL SHTS. 1 |
| | CHECKED BY: | DLH | |

SIGNAL PLAN AT SR 1 AND FRED HUDSON RD(S360)



PENNSYLVANIA AVE.
FROM: COASTAL HWY.
TO: SHORT RD.

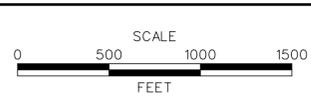
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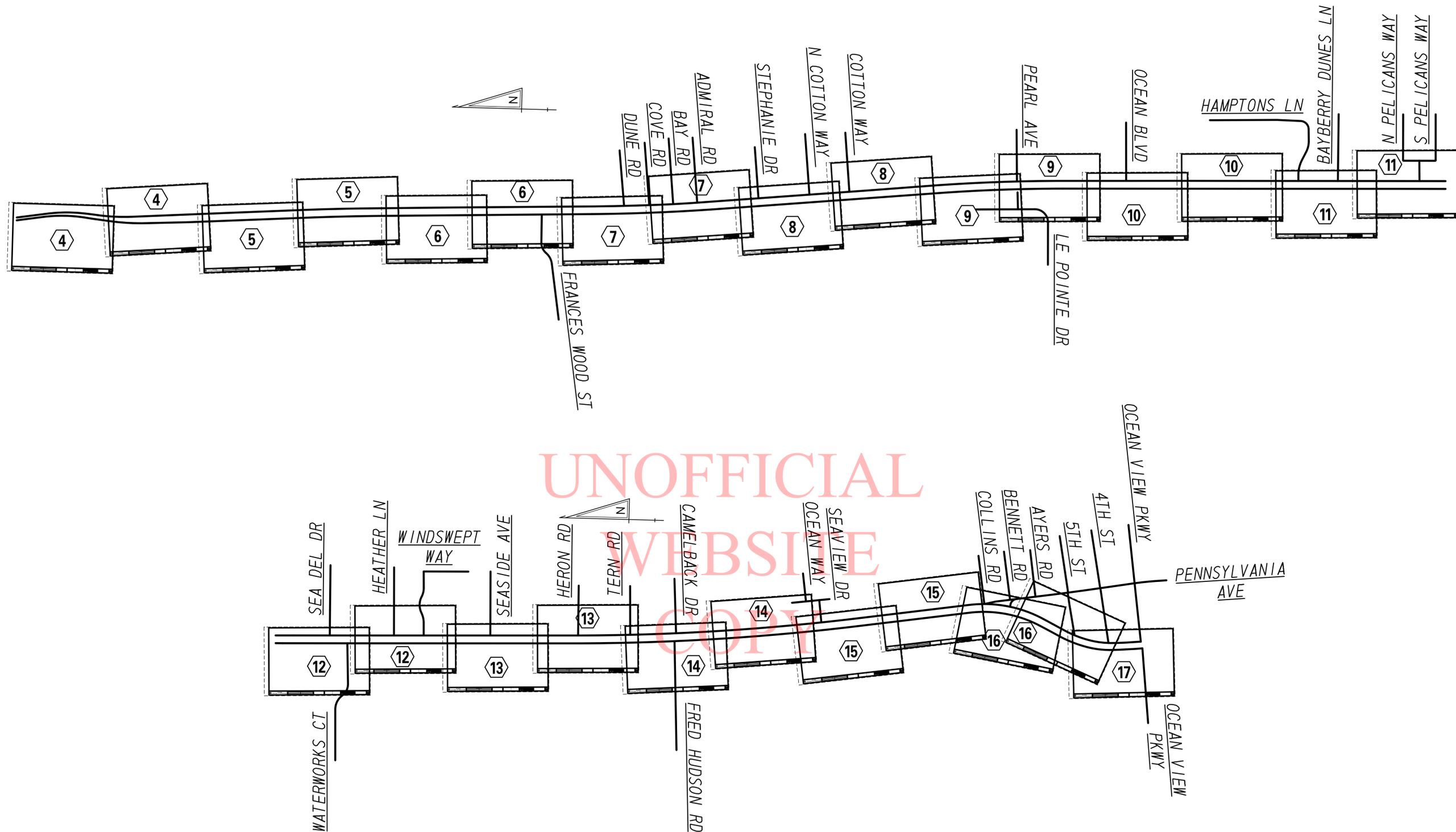
COASTAL HWY.
FROM: YORK RD.
TO: LEWES ST.

\$DATE\$ \$FILE\$

| ADDENDUMS / REVISIONS | |
|-----------------------|--|
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|------------------------|---------------------|
| CONTRACT T201406302 | PERMIT NO. - |
| COUNTY SUSSEX | DESIGNED BY: DB, AM |
| | CHECKED BY: CD |



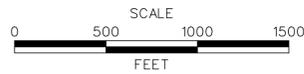
UNOFFICIAL
WEBSITE
COPY

**COASTAL HWY.
FROM: INDIAN INLET RIVER BRIDGE
TO: OCEANVIEW PARKWAY**

\$DATE\$ \$FILE\$

**DELAWARE
DEPARTMENT OF TRANSPORTATION**

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION
SOUTH II-II, 2014**

| | | |
|------------|--------------|--------|
| CONTRACT | PERMIT NO. | - |
| T201406302 | DESIGNED BY: | DB, AM |
| COUNTY | CHECKED BY: | CD |
| SUSSEX | | |

PLAN SHEET INDEX

| | |
|-------------|----|
| SHEET NO. | 2 |
| TOTAL SHTS. | 33 |



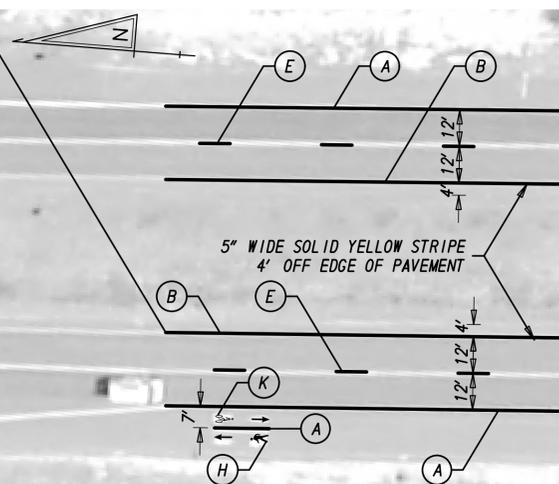
MATCH LINE - THIS SHEET

**BEGIN CONTRACT
T201406302**



MATCH LINE - THIS SHEET

MATCH LINE - SEE SHEET 5



| PAVEMENT MARKINGS LEGEND | |
|--------------------------|---|
| SYMBOL | ITEM |
| (A) | EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548) |
| (B) | EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 748548) |
| (C) | EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" DOTTED - 2' LINE & 6' GAP (ITEM 748548) |
| (D) | EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 10" DOTTED - 2' LINE & 6' GAP (ITEM 748549) |
| (E) | EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" BROKEN - 10' LINE & 30' GAP (ITEM 748548) |
| (F) | 16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015) |
| (G) | 24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015) |
| (H) | ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND, (ITEM 748015) |
| (I) | EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 10" SOLID (ITEM 748549) |
| (J) | EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID DOUBLE LINE (ITEM 748548) |
| (K) | PREFORMED THERMOPLASTIC PAVEMENT MARKING WHITE, BIKE SYMBOL (748553) |
| (L) | ALKYD-THERMOPLASTIC PAVEMENT STRIPING, YELLOW 12" SOLID (ITEM 748027) |

GENERAL NOTES FOR SIGNING & STRIPING

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 - DELDOT - "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" CURRENT EDITION WITH SUBSEQUENT REVISIONS (M.U.T.C.D.).
 - A.A.S.H.T.O. - "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" 5TH EDITION WITH 2010 AND 2011 INTERIM REVISIONS.
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- SEE "PERMANENT SIGN SCHEDULE", SHEETS 32 & 33, FOR SIGN INSTALLATION DETAILS.

\$DATE\$ \$FILE\$

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS



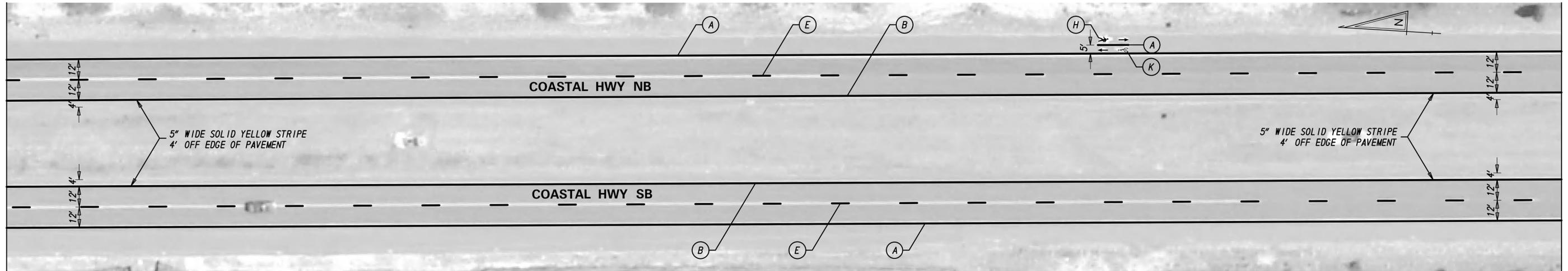
PAVEMENT & REHABILITATION
SOUTH II-II, 2014

| | | |
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| CONTRACT | PERMIT NO. | - |
| T201406302 | DESIGNED BY: | DB, AM |
| COUNTY | CHECKED BY: | CD |
| SUSSEX | | |

PROPOSED SIGNING
AND STRIPING PLAN

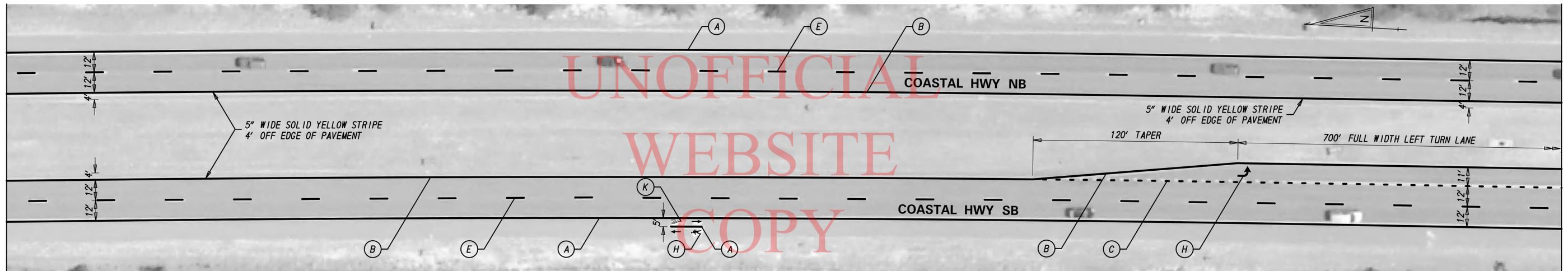
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| SHEET NO. | 4 |
| TOTAL SHTS. | 33 |

MATCH LINE - SEE SHEET 4



MATCH LINE - THIS SHEET

MATCH LINE - THIS SHEET



MATCH LINE - SEE SHEET 6

UNOFFICIAL
WEBSITE
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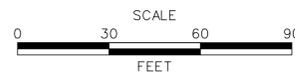
PAVEMENT MARKINGS LEGEND

| SYMBOL | ITEM |
|--------|---|
| (A) | EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548) |
| (B) | EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 748548) |
| (C) | EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" DOTTED - 2' LINE & 6' GAP (ITEM 748548) |
| (D) | EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 10" DOTTED - 2' LINE & 6' GAP (ITEM 748549) |
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| (G) | 24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015) |
| (H) | ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND, (ITEM 748015) |
| (I) | EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 10" SOLID (ITEM 748549) |
| (J) | EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID DOUBLE LINE (ITEM 748548) |
| (K) | PREFORMED THERMOPLASTIC PAVEMENT MARKING WHITE, BIKE SYMBOL (748553) |
| (L) | ALKYD-THERMOPLASTIC PAVEMENT STRIPING, YELLOW 12" SOLID (ITEM 748027) |

GENERAL NOTES FOR SIGNING & STRIPING

- ROADWAY GEOMETRY IS BASED OFF AERIAL PHOTOGRAPHY & FIELD VERIFICATION.
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ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION
SOUTH II-II, 2014**

| | | |
|------------|--------------|--------|
| CONTRACT | PERMIT NO. | - |
| T201406302 | DESIGNED BY: | DB, AM |
| COUNTY | CHECKED BY: | CD |
| SUSSEX | | |

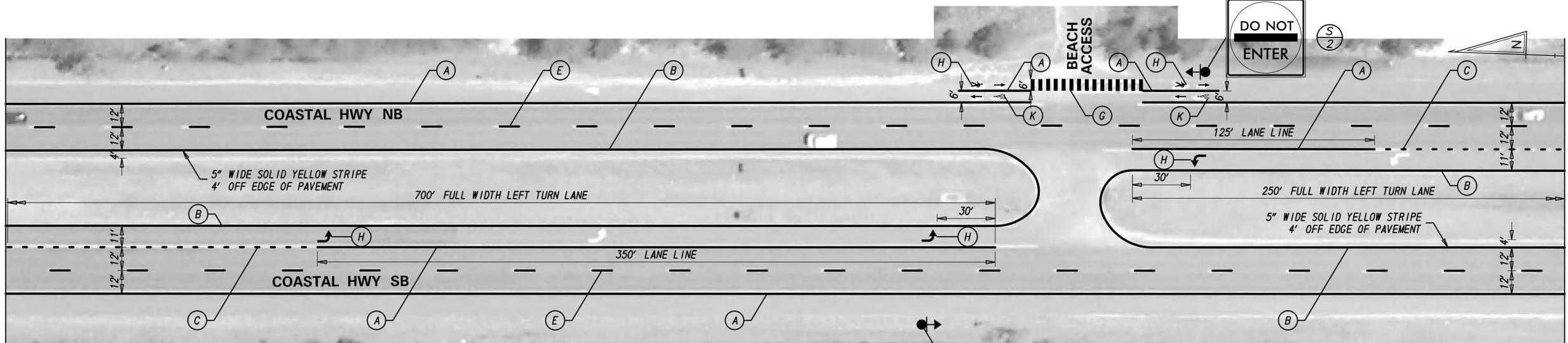
**PROPOSED SIGNING
AND STRIPING PLAN**

| | |
|-------------|----|
| SHEET NO. | 5 |
| TOTAL SHTS. | 33 |

\$DATE\$ \$FILE\$

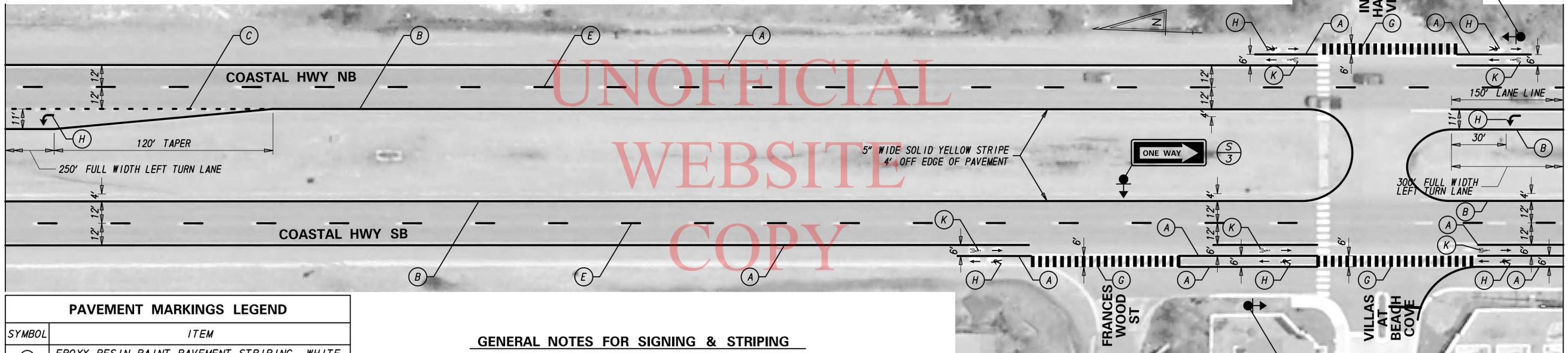
**DELAWARE
DEPARTMENT OF TRANSPORTATION**

MATCH LINE - SEE SHEET 5



MATCH LINE - THIS SHEET

MATCH LINE - THIS SHEET



MATCH LINE - SEE SHEET 7

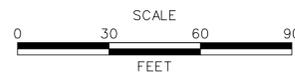
PAVEMENT MARKINGS LEGEND

| SYMBOL | ITEM |
|--------|---|
| (A) | EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548) |
| (B) | EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 748548) |
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| (K) | PREFORMED THERMOPLASTIC PAVEMENT MARKING WHITE, BIKE SYMBOL (748553) |
| (L) | ALKYD-THERMOPLASTIC PAVEMENT STRIPING, YELLOW 12" SOLID (ITEM 748027) |

GENERAL NOTES FOR SIGNING & STRIPING

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 DELDOT - "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" CURRENT EDITION WITH SUBSEQUENT REVISIONS (M.U.T.C.D.).
 A.A.S.H.T.O. - "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" 5TH EDITION WITH 2010 AND 2011 INTERIM REVISIONS.
 F.H.W.A. - "STANDARD HIGHWAY SIGNS" 2004 EDITION AND SUBSEQUENT REVISIONS.
- SEE "PERMANENT SIGN SCHEDULE", SHEETS 32 & 33, FOR SIGN INSTALLATION DETAILS.

ADDENDUMS / REVISIONS



PAVEMENT & REHABILITATION SOUTH II-II, 2014

| | |
|------------------------|---------------------------------------|
| CONTRACT T201406302 | PERMIT NO. - |
| COUNTY SUSSEX | DESIGNED BY: DB, AM CHECKED BY: CD |

PROPOSED SIGNING AND STRIPING PLAN

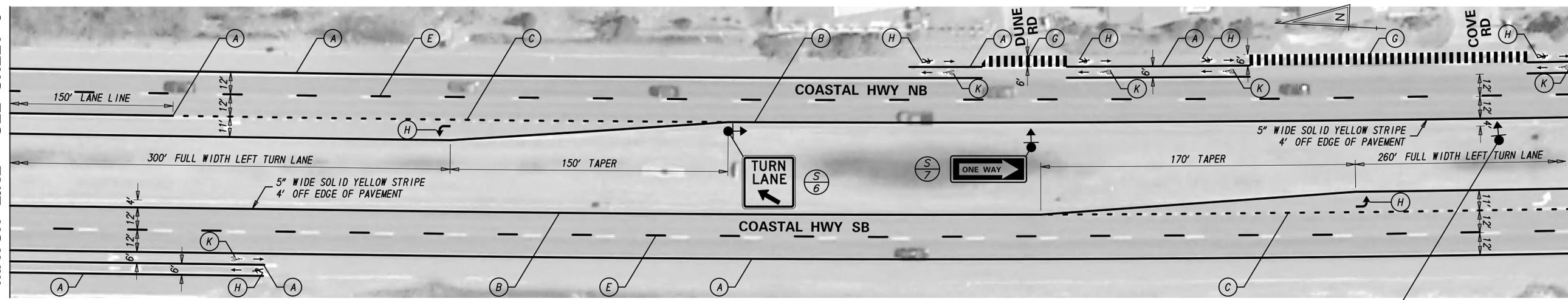
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| SHEET NO. 6 |
| TOTAL SHTS. 33 |

\$DATE\$ \$FILE\$

DELAWARE DEPARTMENT OF TRANSPORTATION

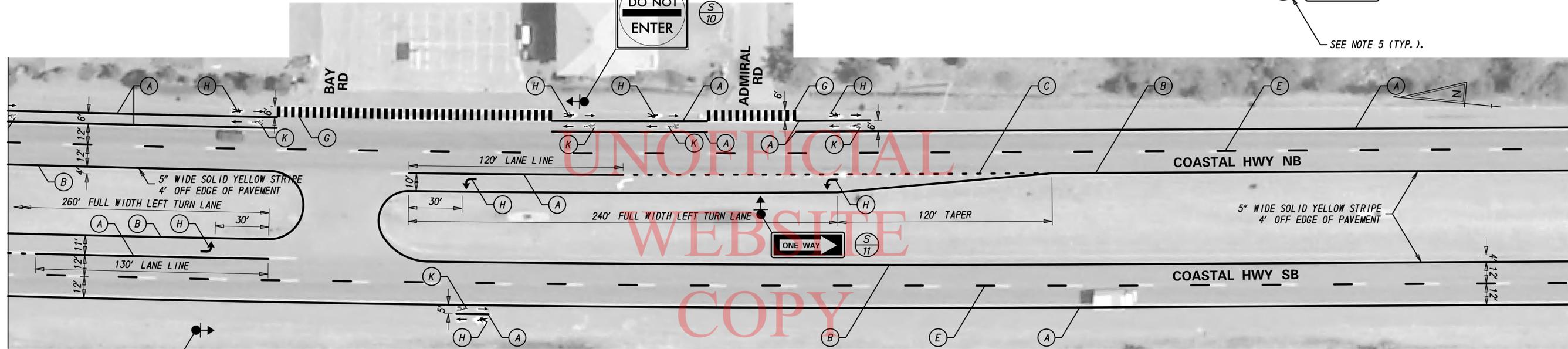
MATCH LINE - SEE SHEET 6

MATCH LINE - THIS SHEET

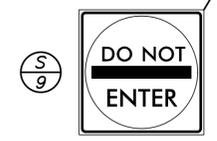


MATCH LINE - THIS SHEET

MATCH LINE - SEE SHEET 8



SEE NOTE 5 (TYP.).



| PAVEMENT MARKINGS LEGEND | |
|--------------------------|---|
| SYMBOL | ITEM |
| (A) | EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548) |
| (B) | EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 748548) |
| (C) | EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" DOTTED - 2' LINE & 6' GAP (ITEM 748548) |
| (D) | EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 10" DOTTED - 2' LINE & 6' GAP (ITEM 748549) |
| (E) | EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" BROKEN - 10' LINE & 30' GAP (ITEM 748548) |
| (F) | 16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015) |
| (G) | 24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015) |
| (H) | ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND, (ITEM 748015) |
| (I) | EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 10" SOLID (ITEM 748549) |
| (J) | EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID DOUBLE LINE (ITEM 748548) |
| (K) | PREFORMED THERMOPLASTIC PAVEMENT MARKING WHITE, BIKE SYMBOL (748553) |
| (L) | ALKYD-THERMOPLASTIC PAVEMENT STRIPING, YELLOW 12" SOLID (ITEM 748027) |

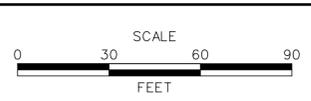
GENERAL NOTES FOR SIGNING & STRIPING

- ROADWAY GEOMETRY IS BASED OFF AERIAL PHOTOGRAPHY & FIELD VERIFICATION.
- ALL STRIPING SHOWN IS PROPOSED. CONTRACTOR TO FOLLOW PROPOSED STRIPING AND PAVEMENT MARKINGS LEGEND. EXISTING STRIPING SHOWN ON AERIAL IS NOT TO BE REPRODUCED UNLESS CALLED OUT AS SUCH, PER THIS PLAN.
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- THE CONTRACTOR SHALL BE GOVERNED BY THE STANDARDS AND REQUIREMENTS OF THE FOLLOWING PUBLICATIONS, EXCEPT AS MODIFIED BY THE SPECIAL PROVISIONS OF THIS CONTRACT OR THROUGH WRITTEN APPROVAL BY THE ENGINEER.
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 - A.A.S.H.T.O. - "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" 5TH EDITION WITH 2010 AND 2011 INTERIM REVISIONS.
 - F.H.W.A. - "STANDARD HIGHWAY SIGNS" 2004 EDITION AND SUBSEQUENT REVISIONS.
- SEE "PERMANENT SIGN SCHEDULE", SHEETS 32 & 33, FOR SIGN INSTALLATION DETAILS.

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| ADDENDUMS / REVISIONS | |
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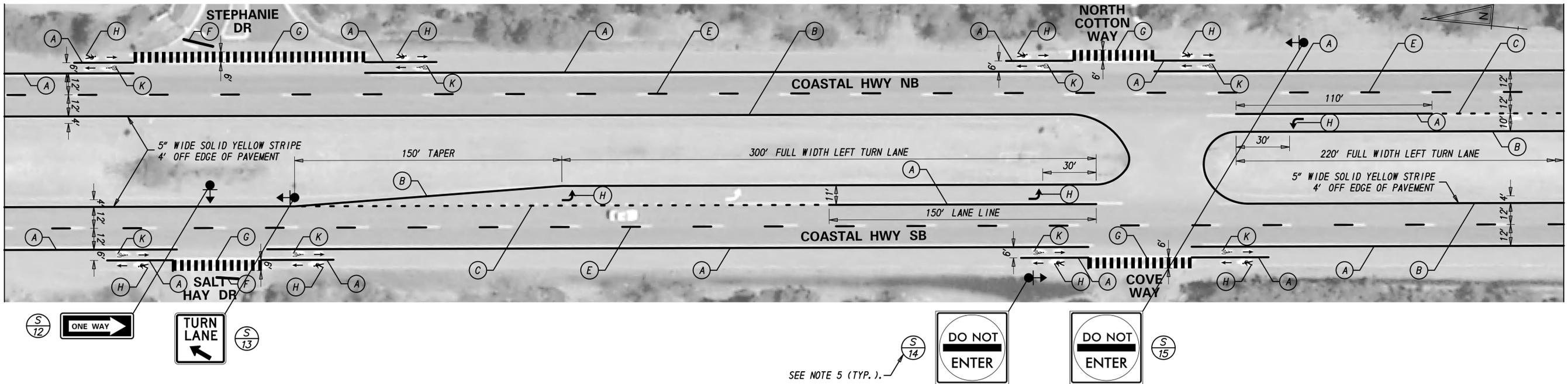


PAVEMENT & REHABILITATION SOUTH II-II, 2014

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|------------------------|---------------------------------------|
| CONTRACT T201406302 | PERMIT NO. - |
| COUNTY SUSSEX | DESIGNED BY: DB, AM CHECKED BY: CD |

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|---|-------------------|
| PROPOSED SIGNING AND STRIPING PLAN | SHEET NO. 7 |
| | TOTAL SHTS. 33 |

MATCH LINE - SEE SHEET 7



MATCH LINE - THIS SHEET

MATCH LINE - THIS SHEET



MATCH LINE - SEE SHEET 9

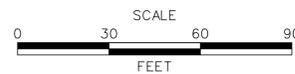
PAVEMENT MARKINGS LEGEND

| SYMBOL | ITEM |
|--------|---|
| (A) | EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548) |
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| (I) | EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 10" SOLID (ITEM 748549) |
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| (K) | PREFORMED THERMOPLASTIC PAVEMENT MARKING WHITE, BIKE SYMBOL (748553) |
| (L) | ALKYD-THERMOPLASTIC PAVEMENT STRIPING, YELLOW 12" SOLID (ITEM 748027) |

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ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION
SOUTH II-II, 2014**

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|------------------------|---------------------|
| CONTRACT T201406302 | PERMIT NO. - |
| COUNTY SUSSEX | DESIGNED BY: DB, AM |
| | CHECKED BY: CD |

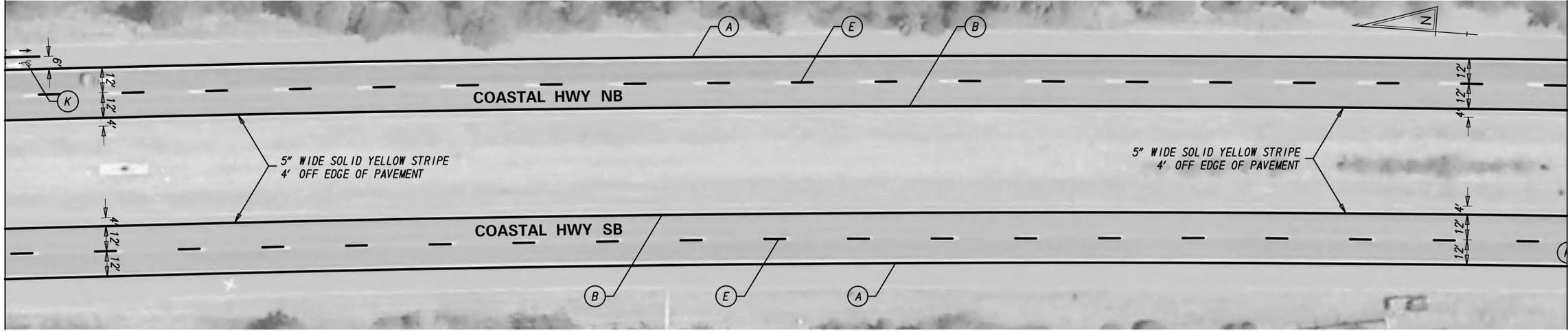
**PROPOSED SIGNING
AND STRIPING PLAN**

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|-------------------|
| SHEET NO. 8 |
| TOTAL SHTS. 33 |

\$DATE\$ \$FILE\$

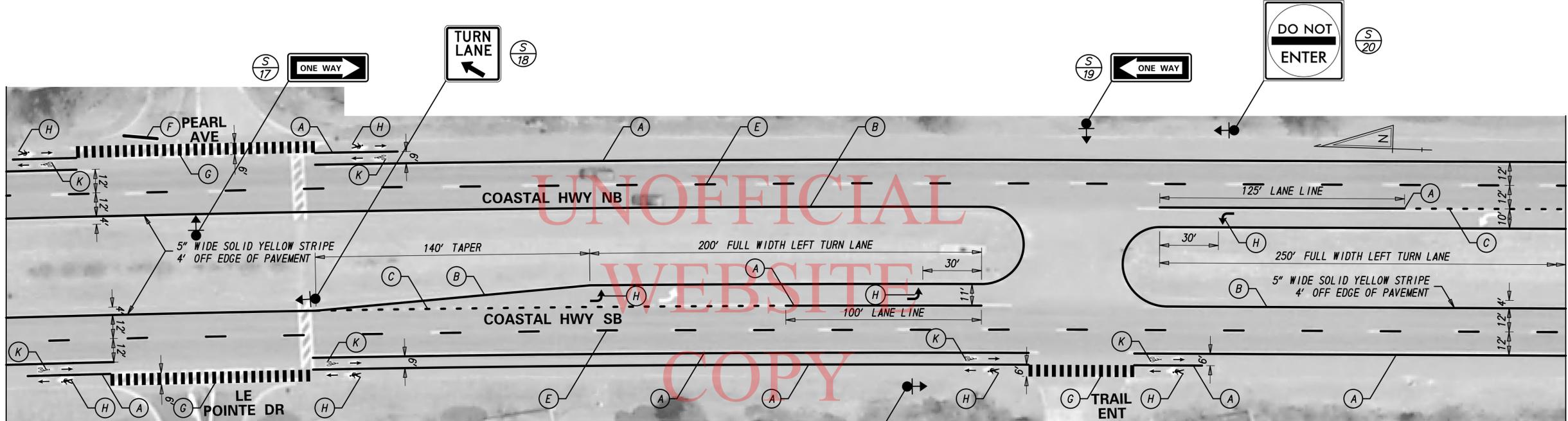
**DELAWARE
DEPARTMENT OF TRANSPORTATION**

MATCH LINE - SEE SHEET 8



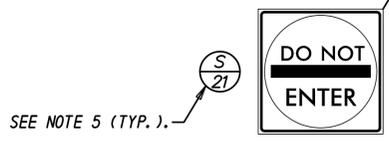
MATCH LINE - THIS SHEET

MATCH LINE - THIS SHEET



MATCH LINE - SEE SHEET 10

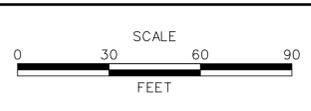
| PAVEMENT MARKINGS LEGEND | |
|--------------------------|---|
| SYMBOL | ITEM |
| (A) | EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548) |
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| (K) | PREFORMED THERMOPLASTIC PAVEMENT MARKING WHITE, BIKE SYMBOL (748553) |
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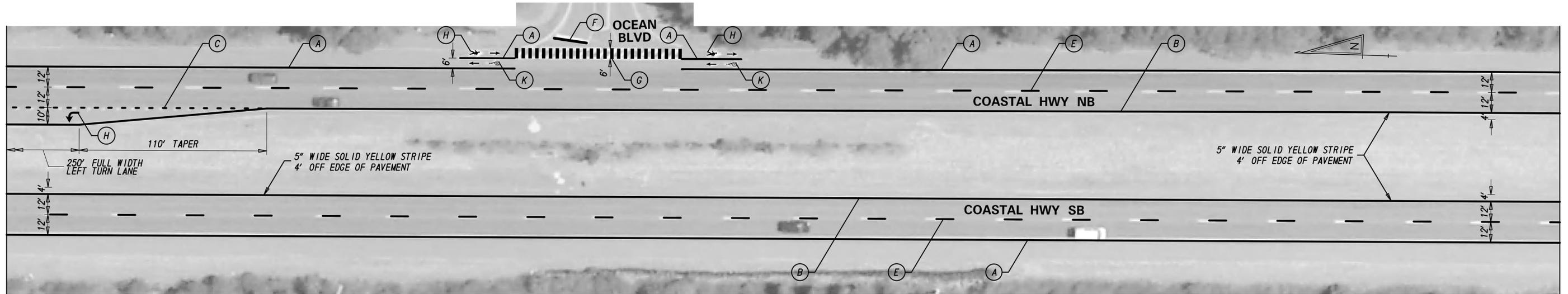
| ADDENDUMS / REVISIONS | |
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|------------------------|---------------------------------------|
| CONTRACT T201406302 | PERMIT NO. - |
| COUNTY SUSSEX | DESIGNED BY: DB, AM CHECKED BY: CD |

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|-------------------|
| SHEET NO. 9 |
| TOTAL SHTS. 33 |

MATCH LINE - SEE SHEET 9



MATCH LINE - THIS SHEET

MATCH LINE - THIS SHEET



MATCH LINE - SEE SHEET 11

UNOFFICIAL
WEBSITE
COPY

PAVEMENT MARKINGS LEGEND

| SYMBOL | ITEM |
|--------|---|
| (A) | EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548) |
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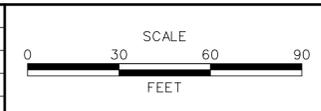
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| ADDENDUMS / REVISIONS | |
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**PAVEMENT & REHABILITATION
SOUTH II-II, 2014**

| | |
|------------------------|---------------------|
| CONTRACT T201406302 | PERMIT NO. - |
| COUNTY SUSSEX | DESIGNED BY: DB, AM |
| | CHECKED BY: CD |

**PROPOSED SIGNING
AND STRIPING PLAN**

| |
|-------------------|
| SHEET NO. 10 |
| TOTAL SHTS. 33 |