

STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION



TRANSPORTATION SOLUTIONS
CENTRAL AND SOUTH DISTRICTS

PLANS AND SPECIFICATIONS FOR

CONTRACT NUMBER: T201569004

FEDERAL AID PROJECT NUMBER: ESTP-2015(11)

OPEN END CONSTRUCTION SERVICES, SAFE ROUTES TO SCHOOL,
KENT AND SUSSEX, FY15-16

RECOMMENDED:



DIRECTOR
DIVISION OF PLANNING

APPROVED AS TO PROCESS:



CHIEF ENGINEER
TRANSPORTATION SOLUTIONS

CONTRACT DESCRIPTION

THE PURPOSE OF THIS OPEN-END CONTRACT IS TO CONSTRUCT BICYCLE AND PEDESTRIAN IMPROVEMENTS WITHIN THE VICINITY OF ELEMENTARY OR MIDDLE SCHOOLS IN ACCORDANCE WITH APPLICABLE STANDARDS. THE LOCATION OF WORK IS LIMITED TO SITES WITHIN KENT AND SUSSEX COUNTIES. INDIVIDUAL LOCATIONS WILL VARY IN THEIR CONTEXT FROM SCHOOL DISTRICT PROPERTIES TO MUNICIPAL OR STATE MAINTAINED ROADWAYS.

THE WORK ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

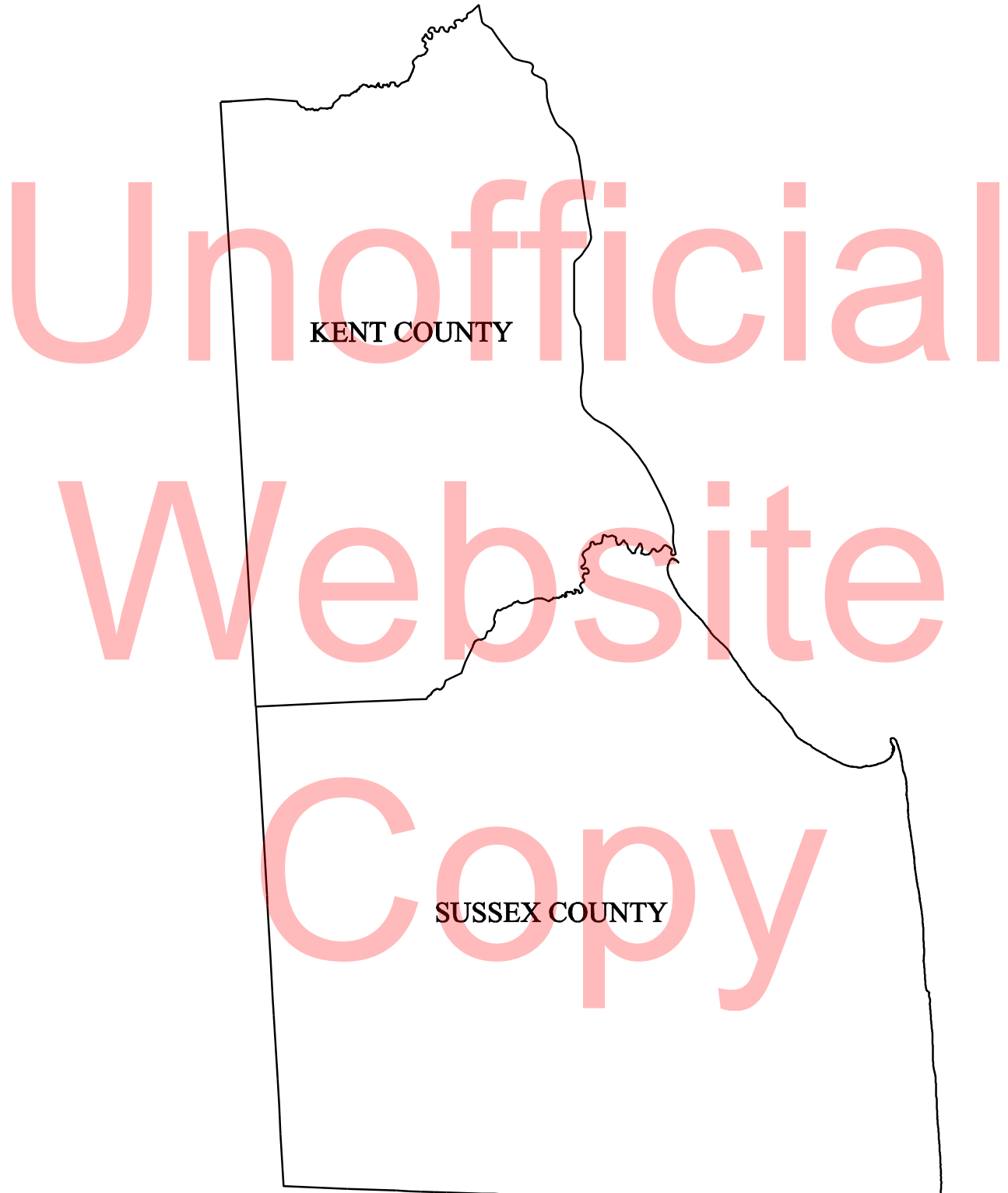
- CLEARING
- EXCAVATION
- GRADING
- PLACING ALL MATERIALS FOR SIDEWALK AND ROADWAY CONSTRUCTION
- DRAINAGE SYSTEM ADJUSTMENTS
- PLACEMENT OF EROSION AND SEDIMENT CONTROLS
- MAINTENANCE OF TRAFFIC
- SIGNING AND STRIPING
- SIGNAL SYSTEM AND LIGHTING WORK
- BICYCLE RACKS
- CURB RETAINING WALL

SEVERAL WORK SITES FOR THIS CONTRACT HAVE BEEN IDENTIFIED AND ARE LISTED BELOW. THE STATE RESERVES THE RIGHT TO ADD ADDITIONAL LOCATION(S) TO THIS CONTRACT AS ADDITIONAL FUNDING BECOMES AVAILABLE, POTENTIALLY INCLUDING WORK AT SEAFORD MIDDLE SCHOOL AND RICHARD A. SHIELDS ELEMENTARY SCHOOL. NOTE THAT SITES ARE NOT LIMITED TO AND NOT GUARANTEED FOR THIS CONTRACT.

- NELLIE HUGHES STOKES ELEMENTARY SCHOOL
- W. REILY BROWN ELEMENTARY SCHOOL
- MILFORD CENTRAL ACADEMY
- BENJAMIN BANNEKER ELEMENTARY SCHOOL
- LULU ROSS ELEMENTARY SCHOOL
- WOODBRIDGE MIDDLE SCHOOL

LOCATION MAP

LOCATION 1- Open End Location - Actual Locations to be determined



PROJECT NOTES

1. CONSTRUCTION OF THIS CONTRACT SHALL BE PERFORMED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED AUGUST 2001 (AS AMENDED BY THE SUPPLEMENTAL SPECIFICATIONS), THE DELDOT SPECIAL PROVISIONS, STANDARD CONSTRUCTION DETAILS, AND THESE PROJECT NOTES.
2. THIS IS AN OPEN-END TASK DRIVEN CONTRACT, WITH SOME KNOWN AND OTHER NOT YET DETERMINED LOCATIONS, TO MAKE GENERAL IMPROVEMENTS TO PEDESTRIAN/BICYCLE FACILITIES LOCATED WITHIN THE BOUNDARIES OF KENT AND SUSSEX COUNTIES. THE WORK SHALL BE ISSUED AS THE ENGINEER PROVIDES INDIVIDUAL TASKS. THE DEPARTMENT RESERVES THE RIGHT TO PRIORITIZE, SUBSTITUTE, ADD, OR DELETE LOCATIONS AT ANYTIME DURING THE CONTRACT TERM.
3. CONTRACT TERM: THIS CONTRACT SHALL BE FOR A PERIOD OF TWO (2) YEARS FROM THE DATE OF INITIAL "NOTICE TO PROCEED" WITH THE OPTION TO EXTEND THE CONTRACT FOR ONE (1) ADDITIONAL ONE-YEAR PERIOD AT THE ORIGINAL UNIT BID PRICES SPECIFIED. EACH SUCH ONE-YEAR EXTENSION MUST BE APPROVED BY BOTH PARTIES IN WRITING; AT LEAST 90 DAYS PRIOR TO THE EXPIRATION OF THE THEN EXISTING CONTRACT. THE PERFORMANCE BOND SHALL BE SUBMITTED WITH THE CONTRACT EXTENSION AND SHALL BE SUBJECT TO ANY SUCH AGREED UPON RENEWAL FOR EXTENSION PERIODS. FAILURE ON THE PART OF THE CONTRACTOR TO SUBMIT THE PERFORMANCE BOND FOR THE EXTENSION PERIOD PRIOR TO THE LAST CALENDAR DAY BEFORE END OF THE PREVIOUS PERIOD SHALL RESULT IN THE CONTRACT BEING CANCELLED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL FORMS NECESSARY TO RENEW THE PERFORMANCE BOND EACH YEAR THE CONTRACT IS IN FORCE.
4. THE LOCATION LISTING INDICATES ESTIMATED QUANTITIES FOR THE ORIGINAL TWO YEAR CONTRACT AND FIRST 6 LOCATIONS. DURING THE BIDDING PERIOD, ANY QUESTIONS PERTAINING TO LOCATIONS SHALL BE DIRECTED TO CONTRACT ADMINISTRATION. AFTER THE AWARD, SUCH QUESTIONS SHALL BE REFERRED TO SOUTH I I CONSTRUCTION.
5. DEPENDING ON FUND AVAILABILITY, THE DEPARTMENT RESERVES THE RIGHT TO INCREASE OR DECREASE THE QUANTITIES OF THE ITEMS SPECIFIED IN THIS CONTRACT. SUCH ADDITIONS OR DELETIONS SHALL NOT BE CAUSE FOR AN INCREASE OR DECREASE IN ANY CONTRACT UNIT BID PRICES.

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6. THE WORK WILL BE SCHEDULED BY ISSUANCE OF TASKS TO THE CONTRACTOR FROM THE DEPARTMENT. EACH TASK WILL REPRESENT AN INDEPENDENT SAFE ROUTES TO SCHOOL CONSTRUCTION LOCATION. TASKS WILL BE ISSUED UPON DESIGN COMPLETION AND RECEIPT OF NECESSARY STATEMENTS & PERMITS FOR THE INDIVIDUAL SITES. FIELD PERSONNEL REPRESENTING THE DEPARTMENT ARE NOT AUTHORIZED TO REVOKE, ALTER, OR WAIVE ANY REQUIREMENTS OF THE PLANS OR SPECIFICATIONS.
7. THE SCOPE OF EACH TASK WILL BE DEFINED BY A FULLY ENGINEERED SET OF CONSTRUCTION DRAWINGS. IN ADDITION TO THE DRAWINGS AND NOTES THE ESTIMATED QUANTITIES, PROPERTY OWNER NOTIFICATION REQUIREMENTS, ALLOWABLE TIME TO PERFORM THE WORK AND ANY ADDITIONAL SPECIFICATIONS AND CONSTRUCTION GUIDANCE NEEDED FOR THE SPECIFIC TASK WILL ALSO BE PROVIDED.
8. PAYMENT WILL BE MONTHLY FOR THE COMPLETED PAY ESTIMATES AS OUTLINED IN SECTION 109.07.
9. PROSECUTION AND PROGRESS OF WORK:
 - a. THE CONTRACTOR SHALL COMMENCE WORK INDICATED ON THE TASK NO LATER THAN THIRTY (30) DAYS AFTER ISSUANCE UNLESS THE REQUIRED MATERIALS ARE NOT AVAILABLE. NON-AVAILABILITY OF MATERIALS SHALL BE VERIFIED BY AT LEAST THREE (3) INDEPENDENT SOURCES, WITH THE VERIFICATION FORMALLY PRESENTED IN WRITING BY THE CONTRACTOR TO THE DEPARTMENT WITHIN FOUR (4) WORKING DAYS OF BEING ISSUED A NEW TASK.
 - b. ISSUANCE OF EACH TASK DOES NOT CONSTITUTE AUTHORIZATION TO BEGIN THE WORK DESCRIBED ON THE TASK. THE CONTRACTOR SHALL NOT COMMENCE ANY WORK ON A TASK UNTIL A NOTICE TO PROCEED FOR THE TASK HAS BEEN ISSUED BY THE ADMINISTRATION SECTION.
 - c. IF WORK DOES NOT COMMENCE, OR NON-AVAILABILITY OF MATERIALS IS NOT PRESENTED IN THE ALLOTTED TIME, DEFAULT OR TERMINATION OF THE CONTRACT MAY OCCUR AS PROVIDED IN THE STANDARD SPECIFICATIONS. IF THERE IS A VERIFIED NON-AVAILABILITY OF MATERIALS, TIME CHARGES SHALL COMMENCE ON THE FIRST (1ST) CALENDAR DAY FOLLOWING THE DELIVERY DATE OF SAID MATERIALS.
 - d. FAILURE TO COMPLETE THE TASK IN THE SPECIFIED TIME SHALL SUBJECT THE CONTRACTOR TO LIQUIDATED DAMAGES AS

OUTLINED IN SUBSECTION 108.08 OF THE STANDARD SPECIFICATIONS. EACH TASK IS TO BE COMPLETED WITHIN THE SPECIFIED TIME. A TIMING STATEMENT WILL BE ISSUED FOR EACH TASK. ADDITIONAL CONTRACT TIME MAY BE ADDED TO ANY TASK AS NEEDED AT THE DISCRETION OF THE ENGINEER, PROVIDED AN EXTENSION OF TIME IS SUBMITTED PER SUBSECTION 108.07 OF THE STANDARD SPECIFICATIONS. IF THE WORK ON A SPECIFIC TASK IS NOT COMPLETED WITHIN THE ASSIGNED TIME, LIQUIDATED DAMAGES WILL BE ASSESSED IN ACCORDANCE WITH SUBSECTION 108.09 OF THE STANDARD SPECIFICATIONS BASED ON THE TOTAL VALUE OF THAT PARTICULAR TASK.

- e. THE CONTRACTOR MAY HAVE UP TO THREE (3) ACTIVE TASKS AT A TIME UNTIL ALL ASSIGNED WORK HAS BEEN COMPLETED. THE CONTRACTOR IS REQUIRED TO HAVE ENOUGH RESOURCES TO WORK ON SAFE ROUTES TO SCHOOL CONSTRUCTION FOR ALL TASKS ISSUED.
10. A SEMI-FINAL INSPECTION WILL BE PERFORMED ON EACH TASK AFTER THE DEPARTMENT DETERMINES THAT SUBSTANTIAL COMPLETION HAS BEEN ACHIEVED. ALL WORK MUST MEET THE DEPARTMENT'S SPECIFICATIONS AND THE REQUIREMENTS AS OUTLINED IN THESE NOTES. THE CONTRACTOR MUST COMPLETE ALL PUNCHLIST WORK WITHIN THIRTY (30) CALENDAR DAYS OF THE ISSUANCE OF THE SEMI-FINAL INSPECTION PUNCH LIST PROVIDED, UNLESS THE ENGINEER APPROVES OTHERWISE.
- ALL WORK IS SUBJECT TO A FINAL INSPECTION UPON EACH TASK COMPLETION OF THE SEMI-FINAL PUNCHLIST. THE CONTRACTOR WILL HAVE FORTY-FIVE (45) DAYS TO COMPLETE ALL PUNCHLIST WORK FROM THE FINAL INSPECTION LETTER DATE, UNLESS THE ENGINEER APPROVES OTHERWISE.
11. ALL ADDITIONAL WORK SHALL BE PERFORMED BY CONTRACT UNIT PRICES. IN THE CASE WHERE CONTRACT PRICES ARE NOT AVAILABLE, PRICES ARE TO BE NEGOTIATED OR PERFORMED BY FORCE ACCOUNT PROCEDURES AS OUTLINED IN THE STANDARD SPECIFICATIONS.
12. PROPER DISPOSAL OF CONSTRUCTION RELATED WASTES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STATE REGULATIONS.
13. TRASH, RUBBISH, DEBRIS OR BRUSH THAT HAMPERS REPAIR / MAINTENANCE WORK IN THIS CONTRACT (AS DETERMINED BY THE ENGINEER) SHALL BE REMOVED WITHIN THE PROJECT LIMITS, AND SHALL BE INCIDENTAL TO PAY ITEM 763000 (INITIAL EXPENSE).

14. GRASS AND SOIL AREAS WITHIN STATE RIGHT-OF-WAY THAT HAVE BEEN DAMAGED BY THE CONTRACTOR'S EQUIPMENT DURING THIS CONTRACT SHALL BE RESTORED WITH TOPSOIL, SEED AND MULCH AT CONTRACTOR'S OWN EXPENSE, AND IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 732, 734 & 735.
15. THE CONTRACTOR SHALL NOT TRESPASS ON PRIVATE PROPERTY UNLESS THE DEPARTMENT HAS ACQUIRED A "TEMPORARY TRESPASS AGREEMENT" FROM THE PROPERTY OWNER. IF THE WORK IS WITHIN AN EASEMENT, PERMANENT OR TEMPORARY, THE WORK SHALL NOT BEGIN UNTIL THE ADJACENT PROPERTY OWNERS (IF AFFECTED) HAVE BEEN NOTIFIED. PRIOR TO STARTING WORK ON TEMPORARY OR PERMANENT EASEMENTS, THE CONTRACTOR SHALL NOTIFY AFFECTED PROPERTY OWNERS OF THE PROPOSED WORK DATES. THE CONTRACTOR SHALL PROVIDE ALL RESIDENTS WHO LIVE ADJACENT TO THE WORK ZONE WITH A MINIMUM SEVEN (7) DAYS PRIOR WRITTEN NOTICE FOR THE START OF CONSTRUCTION WORK UNLESS DIRECTED OTHERWISE IN THE SITE SPECIFIC DOCUMENTATION. THIS NOTIFICATION SHALL INCLUDE THE SCOPE OF WORK, WORKING HOURS, ANTICIPATED START AND COMPLETION DATES, CONTRACTOR NAME AND ADDRESS, AND DELDOT CONTACT NAME AND NUMBERS. FAILURE TO GIVE PROPER NOTICE WILL RESULT IN A SUSPENSION OF WORK REQUIRING NOTICE, UNTIL PROPER NOTICE IS PROVIDED.
16. NO ENVIRONMENTAL PERMITS ARE REQUIRED FOR THIS WORK PROVIDED NO JURISDICTIONAL WETLANDS OR WATERS ARE IMPACTED. IF THERE IS ANY QUESTION AS TO WHETHER OR NOT A WATER OR WETLAND IS JURISDICTIONAL, CONTACT THE DELDOT ENVIRONMENTAL STUDIES SECTION AT (302)760-2264.
17. A NOTICE TO PROCEED FOR A SPECIFIC TASK WILL NOT BE ISSUED UNTIL THE ADMINISTRATION SECTION RECEIVES ANY REQUIRED CLEARANCE OR PERMITS FROM THE DELDOT ENVIRONMENTAL STUDIES OFFICE.
18. UNDERGROUND UTILITIES MAY BE PRESENT AT ALL LOCATIONS. THEREFORE, ALL STANDARD PRACTICES AND PROCEDURES REGARDING UTILITIES SHALL BE FOLLOWED SEE SUBSECTION 105.09 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL CONTACT MISS UTILITY OF DELAWARE PRIOR TO STARTING EACH TASK. THE CONTRACTOR IS RESPONSIBLE FOR THE SUPPORT AND PROTECTION OF ALL UTILITIES WHEN EXCAVATING. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING PROPER CLEARANCES, INCLUDING SAFETY CLEARANCES, FROM OVERHEAD UTILITIES FOR CONSTRUCTION EQUIPMENT. THE CONTRACTOR IS ADVISED TO CHECK THE SITE FOR ACCESS PURPOSES FOR HIS EQUIPMENT.

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19. NO UTILITY RELOCATION INVOLVEMENT IS ANTICIPATED. SHOULD ANY CONFLICTS BE ENCOUNTERED DURING CONSTRUCTION REQUIRING ADJUSTMENT AND/OR RELOCATION OF THE AGENCIES' EXISTING FACILITIES, THE NECESSARY RELOCATION WORK SHALL BE ACCOMPLISHED BY THE RESPECTIVE AGENCIES' FORCES, AS DIRECTED BY THE DISTRICT ENGINEER. ANY ADJUSTMENTS AND/OR RELOCATIONS OF MUNICIPALLY OWNED FACILITIES SHALL BE DONE BY THE STATE'S CONTRACTOR IN ACCORDANCE WITH THE RESPECTIVE AGENCIES' STANDARD SPECIFICATIONS AS DIRECTED BY THE DISTRICT ENGINEER.
20. ALL WORK SHALL BE PERFORMED WITHIN THE EXISTING RIGHT-OF-WAY OR EASEMENT AREAS UNLESS OTHERWISE NOTED ON THE TASK. SHOULD THE NEED OCCUR TO TRESPASS ONTO PRIVATE PROPERTY IT WILL BE THE RESPONSIBILITY OF THE PROJECT MANAGER TO SECURE SUCH TRESPASS NEEDS. RIGHT-OF-WAY INFORMATION SHALL BE AVAILABLE UPON REQUEST FROM THE DELDOT ENGINEER.
21. IT IS ANTICIPATED THAT ALL WORK WILL OCCUR WITHIN STATE OR MUNICIPAL RIGHT-OF-WAY. SHOULD THE NEED OCCUR TO TRESPASS ONTO RAILROAD PROPERTY, INCLUDING THE HIGHWAY-RAIL CROSSING; IT WILL BE THE RESPONSIBILITY OF THE PROJECT MANAGER TO CONTACT THE RAILROAD CHIEF ENGINEER AND OBTAIN WRITTEN AUTHORIZATION BEFORE ENTERING.
22. SEASONAL RESTRICTIONS MAY EXIST AT SELECT LOCATIONS TO BE PERFORMED UNDER THIS CONTRACT. THE DEPARTMENT WILL NOTIFY THE CONTRACTOR UPON ISSUANCE OF A NEW TASK OF ANY RESTRICTIONS.
23. IN THE EVENT THAT CONSTRUCTION OCCURS DURING THE SCHOOL YEAR, NO WORK SHALL TAKE PLACE BETWEEN 6-8 AM AND 2-4 PM ON SCHOOL DAYS.
24. AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL CORRECT ALL PAVEMENT EDGE DROP OFFS WITHIN 10' OF A TRAVEL LANE TO RESULT IN A DROP OFF OF NO MORE THAN 2". ANY CORRECTIVE MEASURES TAKEN BY THE CONTRACTOR SHALL BE INCIDENTAL TO THE MOT 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.

MAINTENANCE OF TRAFFIC
PROJECT NOTES

1. THE CONTRACTOR AND ALL OTHERS SHALL PERFORM ALL WORK IN A MANNER THAT SHALL ENSURE THE LEAST PRACTICAL OBSTRUCTION TO ALL ROAD USERS, INCLUDING VEHICULAR, PEDESTRIAN, AND BICYCLE TRAFFIC, AND SHALL BE CONSISTENT WITH SAFETY STANDARDS, AND SHALL COMPLY WITH THE REQUIREMENTS SPECIFIED IN THE LATEST VERSION OF THE "DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) PART 6, HEREIN REFERRED TO AS THE "TRAFFIC CONTROL MANUAL" (INCLUDING REVISIONS IN EFFECT AT THE TIME OF ADVERTISEMENT FOR BIDS).
2. THE CONTRACTOR AND ALL OTHERS SHALL REVIEW AND FOLLOW PROJECT SPECIFIC MAINTENANCE OF TRAFFIC (MOT) AND DETOUR PLANS. IF THERE IS ANY CONFLICT BETWEEN THE PROJECT SPECIFIC MOT PLANS AND GENERAL NOTES IN THIS SECTION, THE PROJECT SPECIFIC MOT PLANS WILL SUPERSEDE. IF THE CONTRACTOR SHOULD WISH TO DEVIATE FROM THE PROPOSED MOT AND DETOUR PLANS THEN HE SHALL SEEK APPROVAL FROM THE ENGINEER. NO MOT OR DETOUR CHANGES WILL BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE ENGINEER PRIOR STARTING ANY TASK.
3. NO LANE CLOSURES WILL BE PERMITTED ON HOLIDAYS OR HOLIDAY WEEKDAYS, UNLESS APPROVED BY THE ENGINEER. THIS REQUIREMENT APPLIES TO ALL ROADS IMPACTED IN THIS CONTRACT, INCLUDING INTERSTATE AND ASSOCIATED RAMPS.
4. NO LANE CLOSURES WILL BE PERMITTED UNLESS APPLICABLE WORK ACTIVITY IS TAKING PLACE.
5. THE CONTRACTOR SHALL PREPARE AND SUBMIT A TRAFFIC CONTROL PLAN, INCLUDING THE NECESSARY NCHRP 350 CERTIFICATE FOR ALL DEVICES THAT WILL BE UTILIZED FOR EACH LOCATION PRIOR TO THE PRE-CONSTRUCTION MEETING, FOR APPROVAL THREE (3) WORKING DAYS PRIOR TO THE START OF ASSIGNED TASKS, AND FOR EACH PROJECT SITE. WRITTEN APPROVAL FOR THE CONTRACTOR'S TRAFFIC CONTROL PLAN AND NCHRP 350 SUBMITTALS MUST BE RECEIVED FROM THE DEPARTMENT SAFETY OFFICER PRIOR TO THE START OF WORK AT EACH AND EVERY LOCATION. COSTS FOR PREPARATION OF TRAFFIC CONTROL PLANS FOR EACH SITE SHALL BE INCLUDED IN THE BID PRICE FOR PAY ITEM 763643 (MAINTENANCE OF TRAFFIC, ALL INCLUSIVE).

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6. FOR LOCATIONS REQUIRING A FLAGGING OPERATION, THE FLAGGER WILL BE PAID THE HOURLY RATE PER ITEMS.
7. ALL FLAGGERS UTILIZED BY THE CONTRACTOR FOR THIS PROJECT SHALL BE ATSSA CERTIFIED. ALL FLAGGERS SHALL HAVE THEIR CERTIFICATION CARDS WITH THEM WHILE WORKING. ABSENCE OF A CERTIFICATION CARD WILL BE JUSTIFICATION FOR FLAGGER DISMISSAL FROM THE SITE AND CORRESPONDING SUSPENSION OF WORK. ALL CONSTRUCTION AND CONTRACTOR VEHICLES AND EQUIPMENT SHALL BE EQUIPPED WITH AN OPERATING ROOF MOUNTED AMBER FLASHING STROBE LIGHT. ALL WORKERS SHALL WEAR A RETRO REFLECTIVE ANSI TYPE 3 OR EQUIVALENT SAFETY VEST WHILE THEY ARE WITHIN THE RIGHT-OF-WAY OR ADJACENT TO IT.
8. IF A ROAD CLOSURE IS REQUIRED AT RAMP LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT THE PROPOSED DETOUR ROUTE TO THE DELDOT SAFETY OFFICER FOR APPROVAL. PAYMENT FOR DETOUR PLAN PREPARATION SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 763643 (MAINTENANCE OF TRAFFIC, ALL INCLUSIVE). THE CONTRACTOR SHALL ALSO COORDINATE THE CLOSURE WITH THE DEPARTMENT. THE DEPARTMENT WILL COORDINATE WITH THE SAFETY SECTION AND BE RESPONSIBLE FOR THE NECESSARY EMERGENCY NOTIFICATIONS. THE DETOUR ROUTE REQUIRES APPROVAL BY THE DEPARTMENT PRIOR TO CLOSURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND MAINTAINING THE MAINTENANCE OF TRAFFIC APPARATUS AT THE CLOSURE (I.E. TYPE III BARRICADE, ROAD CLOSED SIGNS, ETC.) AND ALL ADVANCE-WARNING SIGNS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACEMENT OF DETOUR TRAILBLAZERS. PAYMENT FOR DETOUR TRAILBLAZERS SHALL BE UNDER ITEM 763643 MAINTENANCE OF TRAFFIC, ALL INCLUSIVE. IF NECESSARY, THE ENGINEER WILL ASSIGN THE DETOUR ROUTE.
9. ALL OPEN EXCAVATIONS SHALL BE SECURED WITH THE PLASTIC DRUMS AND ORANGE, CONSTRUCTION SAFETY FENCE. IF THE CONSTRUCTION ACTIVITY RESULTS IN A VERTICAL DIFFERENCE OR DROP-OFF ALONG, ADJACENT TO OR ACROSS A TRAVEL WAY, THE CONTRACTOR SHALL ELIMINATE OR REMEDY THE HAZARD BY THE METHODS DETAILED IN SECTION 6G.20, TABLE 6G-1 OF THE TRAFFIC CONTROL MANUAL AS DIRECTED BY THE ENGINEER. THE CONSTRUCTION SAFETY FENCE, TIE WIRE, ETC. SHALL BE INCIDENTAL TO THE WORK IT PROTECTS.
10. TRAFFIC CONTROL DEVICES SHALL BE PROVIDED AND PLACED IN ACCORDANCE WITH THE DELAWARE MUTCD (TRAFFIC CONTROL MANUAL).
11. THE TRAFFIC CONTROL PLAN MUST CLEARLY INDICATE ORIENTATION OF TRAFFIC CONTROL DEVICES TO BE USED FOR EACH SITE. THE PLAN MUST

BE APPROVED BY DELDOT SAFETY OFFICER AND DELDOT ENGINEER PRIOR TO COMMENCEMENT OF WORK AT EACH SITE.

12. ALL REQUIRED MAINTENANCE OF TRAFFIC WARNING SIGNS WILL BE PAID UNDER ITEM 763643, MAINTENANCE OF TRAFFIC, ALL INCLUSIVE. ALL TEMPORARY TRAFFIC CONTROL DEVICES USED ON ALL HIGHWAYS OPEN TO THE PUBLIC IN THIS STATE SHALL BE IN NEW OR REFURBISHED CONDITION AND SHALL BE CRASHWORTHY IN ACCORDANCE WITH THE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP) REPORT 350 AND THE MEMORANDUM ISSUED AUGUST 28, 1998 BY THE USDOT FEDERAL HIGHWAY ADMINISTRATION INFORMATION: CRASH TESTED WORK ZONE TRAFFIC CONTROL DEVICES. IT IS THE REQUIREMENT OF THE DEPARTMENT THAT SUCH CERTIFICATION BE SUBMITTED FOR TRAFFIC CONTROL DEVICES USED ON ALL PROJECTS, NOT JUST THOSE INVOLVING THE NATIONAL HIGHWAY SYSTEM.
13. NO SEPARATE PAYMENT SHALL BE MADE FOR THE USE OF TRAFFIC CONES. TRAFFIC CONES AND/OR WORK ASSOCIATED WITH THEIR USE, SUCH AS SET UP, REMOVAL, CLEANING, ETC., SHALL BE INCIDENTAL TO THE WORK FOR WHICH THEY PROTECT. CONES SHALL NOT BE USED FOR TRAFFIC CONTROL DURING ANY NIGHT TIME OPERATIONS.
14. ALL EQUIPMENT SHALL BE REMOVED FROM THE JOB SITES ON A DAILY BASIS, EXCEPT WHEN ALLOWED BY THE DELDOT APPROVED TRAFFIC SAFETY PLAN, OR AS APPROVED BY THE ENGINEER.
15. ANY ERRONEOUS PAVEMENT MARKINGS 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. 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.
16. 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 PER THE LATEST VERSION OF THE PERMANENT MARKING SECTION OF THE TRAFFIC CONTROL MANUAL. TEMPORARY PAVEMENT MARKINGS SHALL BE PAID UNDER ITEM 763643, MAINTENANCE OF TRAFFIC, ALL INCLUSIVE.
17. 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

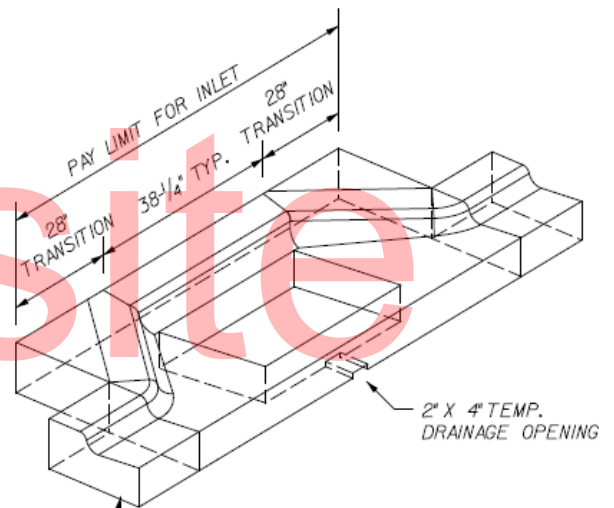
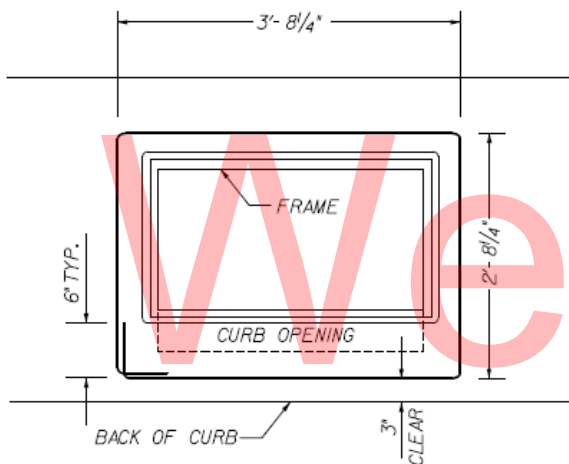
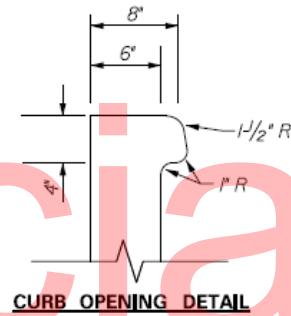
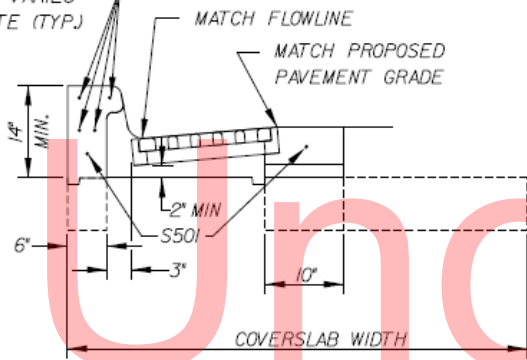
AMERICANS WITH DISABILITIES ACT OF 1990 (ADA) TITLE II, PARAGRAPH 35.130. THE CONTRACTOR SHALL BE REQUIRED TO REVIEW EACH CURB RAMP LOCATION AND SUBMIT THE APPROPRIATE MAINTENANCE OF TRAFFIC DETAIL AND DEVICES TO THE ENGINEER FOR EACH LOCATION AT LEAST 2-WEEKS BEFORE CONSTRUCTION FOR REVIEW, COMMENT, AND APPROVAL. THE FOLLOWING CONSIDERATIONS SHALL BE TAKEN INTO ACCOUNT WHEN ADDRESSING ACCESSIBLE PEDESTRIAN MAINTENANCE OF TRAFFIC:

- a. 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.
- b. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AT ALL TIMES.
- c. 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.
- d. WORK SHOULD BE PHASED SO THAT ALL AREAS OF AN INTERSECTION/SIDEWALK PATH ARE NOT UNDER CONSTRUCTION AT THE SAME TIME UNLESS A CLEAR PEDESTRIAN PATH IS PROVIDED AND IDENTIFIED
- e. 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.
- f. SIGNS AND OTHER DEVICES MOUNTED LOWER THAN 7 FT ABOVE THE TEMPORARY PEDESTRIAN PATHWAY SHALL NOT PROJECT MORE THAN 4 IN. INTO ACCESSIBLE PEDESTRIAN ROUTE.
- g. A SMOOTH, CONTINUOUS HARD SURFACE SHALL BE PROVIDED THROUGHOUT THE ENTIRE LENGTH AND WIDTH OF THE PEDESTRIAN ROUTE THROUGHOUT CONSTRUCTION. THERE SHALL BE NO CURBS OR VERTICAL ELEVATION CHANGES GREATER THAN ¼ INCH IN GRADE OR TERRAIN THAT COULD CAUSE TRIPPING OR BE A BARRIER TO WHEELCHAIR USE.

DETAIL SHEET 2- W. Reily Brown Elementary location

*4 REBAR
 LENGTH VARIES
 SEE NOTE (TYP.)

NOTE: LENGTH OF *4 REBAR SHALL BE THE OUTSIDE OF THE DRAINAGE INLET BOX PLUS 2'-9".



S501 BENDING DIAGRAM

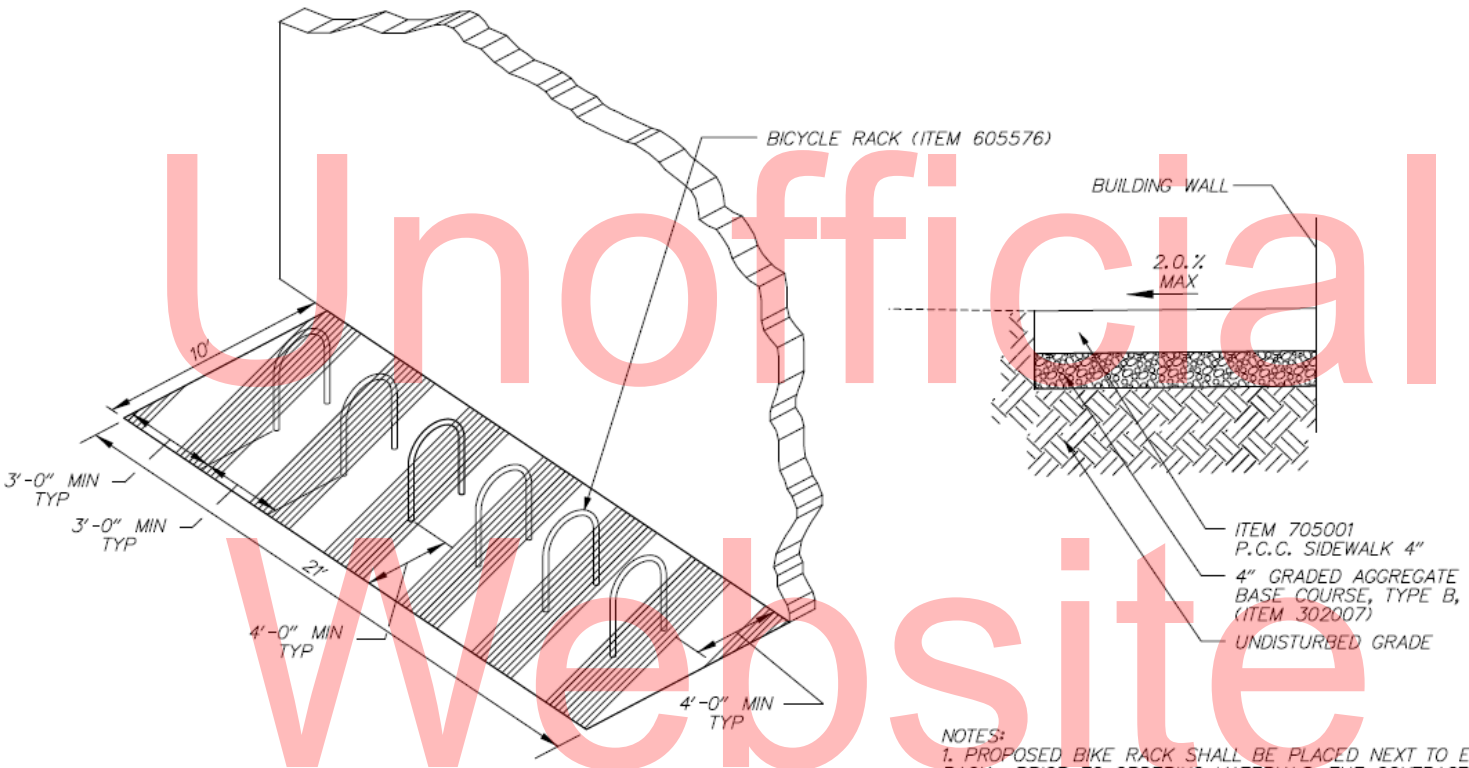
S501 IS NOT REQUIRED TO BE ONE CONTINUOUS BAR. IF MORE THAN ONE BAR IS USED, THERE MUST BE A 12\"/>

INTEGRAL P.C.C. CURB AND GUTTER, TYPE 3-8 OR TYPE 3-4

ISOMETRIC VIEW

RECESSED TOP UNIT DETAIL
 NOT TO SCALE

DETAIL SHEET 3- W. Reily Brown Elementary Location

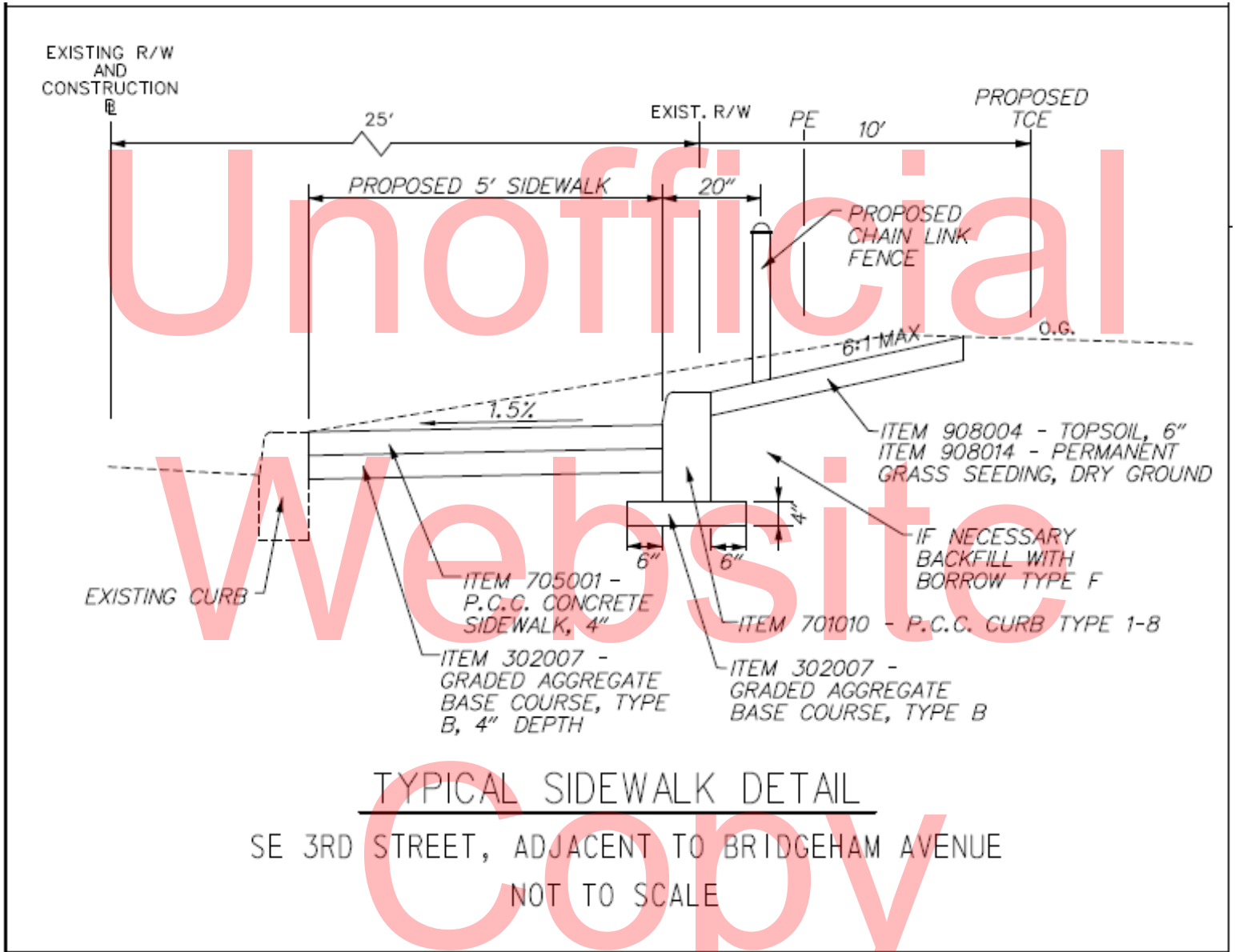


10' x 21' BIKE RACK PAD DETAIL
 NOT TO SCALE

NOTES:
 1. PROPOSED BIKE RACK SHALL BE PLACED NEXT TO EXISTING BIKE RACK. PRIOR TO ORDERING MATERIALS, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS (DETAILING THE LOCATION OF THE PROPOSED BIKE RACK) TO THE ENGINEER FOR APPROVAL. NO PAYMENT FOR PROCUREMENT OR INSTALLATION WILL BE MADE WITHOUT ENGINEER'S APPROVAL.

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DETAIL SHEET 5- Lulu Ross Elementary Location



**INFORMATIONAL ESTIMATE FOR POTENTIAL LOCATIONS TO BE
 ADDED**

Seaford Middle School location

	U.O.M.	Item Description	Seaford Quantity
201000	LS	CLEARING AND GRUBBING	1
202000	CY	EXCAVATION AND EMBANKMENT	67
209006	CY	BORROW, TYPE F	5
302007	CY	GRADED AGGREGATE BASE COURSE, TYPE B	21
302008	CY	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	30
401821	TON	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22,PATCHING	15
401822	TON	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22,PATCHING	23
401823	TON	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE,160 GYRATIONS, PG 64-22, PATCHIN	45
406001	SYIN	HOT-MIX PATCHING	2492
701012	LF	PORTLAND CEMENT CONCRETE CURB, TYPE 1-4	44
701022	LF	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 3-8	158
705002	SF	P.C.C. SIDEWALK, 6"	695
705007	SF	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	114
732002	SY	TOPSOIL, 6" DEPTH	111
734013	SY	PERMANENT GRASS SEEDING, DRY GROUND	111
743003	EADY	ARROWPANELS, TYPE C	19
743058	HR	FLAGGER, SUSSEX COUNTY, FEDERAL	760
743067	HR	FLAGGER, SUSSEX COUNTY, FEDERAL, OVERTIME	152
748015	SF	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	521
748530	SF	REMOVAL OF PAVEMENT STRIPING	330
748548	LF	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	10
749687	EACH	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLESIGN POST	14
758000	SY	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB,SIDEWALK, ETC.	110
762001	LF	SAW CUTTING, HOT MIX	353
762002	LF	SAW CUTTING, CONCRETE, FULL DEPTH	56
905005	EACH	INLET SEDIMENT CONTROL, CURB INLET	2
763643	LS	MAINTENANCE OF TRAFFIC, ALL INCLUSIVE	1
763000	LS	INITIAL EXPENSE	1
763501	LS	CONSTRUCTION ENGINEERING	1

DELAWARE DEPARTMENT OF TRANSPORTATION
 CONTRACT NO: T201569004
 OPEN END CONSTRUCTION SERVICES, SAFE ROUTES TO SCHOOL, KENT AND
 SUSSEX, FY15-16

Richard A. Shields Elementary School location

U.O.M.	Item Description	Quantity
201000	LS CLEARING AND GRUBBING	1
202000	CY EXCAVATION AND EMBANKMENT	251
209006	CY BORROW, TYPE F	5
302007	CY GRADED AGGREGATE BASE COURSE, TYPE B	110
302008	CY GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	4
401810	TON WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22	65
401819	TON WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22	130
401821	TON WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	5
401822	TON WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING	3
401823	TON WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	3
401827	TON WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON-CARBONATE STONE)	57
406001	SYIN WARM-MIX PATCHING	296
701023	LF INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 3-6	340
705001	SF P.C.C. SIDEWALK, 4"	1081
705002	SF P.C.C. SIDEWALK, 6"	427
705007	SF SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	70
705009	SF CURB RAMP, TYPE 2, 3, AND/OR 4	365
708051	EACH DRAINAGE INLET, 34" X 24"	1
716000	EACH CONVERTING EXISTING DRAINAGE INLET TO JUNCTION BOX	1
743058	HOUR FLAGGER, SUSSEX COUNTY, FEDERAL	320
743067	HOUR FLAGGER, SUSSEX COUNTY, FEDERAL, OVERTIME	64
748015	SF PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	200
748548	LF PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	1400
749687	EACH INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	20
750000	EACH ADJUST WATER VALVE BOXES	2
758000	SY REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	33
760507	SYIN PROFILE MILLING, HOT-MIX	77
762001	LF SAW CUTTING, HOT MIX	414
762002	LF SAW CUTTING, CONCRETE, FULL DEPTH	40
905001	LF SILT FENCE	377
905005	EACH INLET SEDIMENT CONTROL, CURB INLET	3
908004	SY TOPSOIL, 6" DEPTH	97
908014	SY PERMANENT GRASS SEEDING, DRY GROUND	97
743000	LS MAINTENANCE OF TRAFFIC	1
763000	LS INITIAL EXPENSE	1
763501	LS CONSTRUCTION ENGINEERING	1