# **CONSTRUCTION PLANS**

# Soil Erosion Notes:

(NO SPECIFIC PAYMENT WILL BE MADE FOR SOIL EROSION CONTROL, THE PRICE FOR ALL SOIL EROSION CONTROL SHALL BE INCLUDED IN THE PRICE OF VARIOUS ITEMS IN THE PROPOSAL.)

- 1. Contractor shall install all soil erosion and sediment control measures necessary of site; i.e. sediment barrier for soil retention, inlet protection structures, dust control, etc. All soil erosion and sediment control measures shall be in compliance with Chapter 3 and 4 of the Standards for Soil Erosion and Sediment Control in New Jersey adopted in July 1999 and as amended.
- 2. All soil erosion and sediment control measures shall be installed before all other work on the site, at the locations as noted on the construction plans.
- 3. All erosion and sediment control practices shall be left in place until construction is complete or the area is stabilized in accordance with the Soil Conservation District recommendations and to the County Engineer's satisfaction.
- 4. Stabilization with Mulch Only When seasons and other conditions are not suitable for growing an erosion-resistant cover (November 1st through April 1st, and May 15th through August 15th) all exposed areas will be stabilized with mulch, salt hay or straw and will be applied at a rate of 80%/2,000 S.F. and anchored immediately after placement to minimize loss by wind or water. Stabilization with mulch will comply with Section 3.31 of said Standards, including details of anchoring mulch.

Permanent vegetation cover- After final grading is completed a permanent vegetative cover will be used to stabilize the soil consisting of the following in the areas designated on the construction

- A. Sodding placed in accordance with Sections 806, 810, 813 & 909 of the N.J.D.O.T. Standard Specifications with a 1-2-2 ratio fertilizer, applied at a rate necessary to yield 50 pounds of nitrogen per acre.
- 5. Temporary Vegetation Cover Temporarily stabilize the soil and reduce damage from wind and water erosion until permanent stabilization is accomplished. Apply limestone and fertilizer according to soil test recommendations. Fertilizer may be applied at the rate of 500 lbs per acre or 11 lbs. per 1,000 S.F. of 10-20-10 or equivalent. Apply limestone (equivalent to 50% calcium plus magnesium oxides) as follows: 2 tons per acre to 90 lbs. per S.F. Work lime and fertilizer into the soil to a depth of 4" with a disc, spring tooth harrow, or other suitable tool. Inspect seedbed just before seeding. If the soil is compacted the area must be retilled.
- 6. Soils high in sulfides or having a pH of 4 or less should be mulched only, see Standards p. 3.3.1. For temporary seeding, see 7. recommendations in Table 3.1.1

Mulching is required on all seeding. Mulch materials should be unrotten small grain straw, hay free of seeds or salt hay to be applied at the rage of 1-1/2 - 2 tons per acre (70 to 90 lbs. per 1,000 S.F.), except that where a crimper is used instead of a liquid mulch-binder (tackifying or adhesive agent), the rate of application must be double the lower rate. Mulch chopper-blowers must not arind the material. Spread uniformly by hand or mechanically so that approximately 1,000 S.F. sections and 8. distribute 70 to 90 lbs. within each section.

- Dust Control— The contractor shall prevent movement and/or blowing of dust from exposed soil surface. This requirement is to reduce damage, health hazards and improve traffic safety, in accordance with section 4.10.1 of the standards for Soil Erosion and Sediment Control and section 107.28 of the N.J.D.O.T. Standard Specifications. Methods for dust control shall consist of mulches. sprav-on adhesives. calcium chloride. sprinkling with water, street sweeping or other methods approved by the Engineer and/or Soil Conservation District. The contractor shall clean the roadway as needed and directed by the engineer and/or the Soil Conservation District. In conjunction with cleaning, the contractor shall be required to sprinkle areas with water or another approved method shall be g performed to keep all areas damp and dust free.
- All soil erosion and sediment control practices to be installed prior to any major soil disturbances, or in their proper sequence, and maintained until permanent protection is established.
- 10. Any disturbed area that will be left exposed more than thirty (30) days and not subject to construction traffic, will immediately receive a temporary seeding. If the season prevents the establishment of a temporary cover, the disturbed area will be mulched with straw, or equivalent material, at a rate of two (2) tons per acre, according to State Standards.
- 11. Permanent vegetation to be seeded or hydroseeded on all exposed areas within two (2) days after final grading. Mulch will be used for protection until seeding is established.
- 12. All work to be done in accordance with the State Standards for Soil Erosion and Sediment Control in New Jersev.
- 13. A subbase course will be applied immediately following rough grading and installation of improvements in order to stabilize streets, roads, driveways and parking areas. In areas where no utilities are present, the subbase shall be installed within fifteen (15) days of preliminary grading.
- 14. Immediately following initial disturbance or rough grading all critical areas subject to erosion (i.e.: steep slopes, roadway embankments) will receive a temporary seeding in combination with straw mulch or a suitable equivalent, at a rate of two (2) tons per acre, according to State Standards.
- 15. Any steep slopes receiving pipeline installation will be backilled and stabilized daily, as the installation proceeds, (i.e.: slopes greater than 3:1).
- 16. The contractor shall utilize the roadways as a construction entrance The existing roadways shall be cleaned as needed & directed by the Camden County Soil Conservation District and the Engineer.
- 17. In accordance with the Standards for Permanent Vegetative Cover for Soil Stabilization, any soil having a pH of 4 or less or containing iron sulfides shall be covered with a minimum of 12" of soil having a pH of 5 or more prior to seedbed preparation.
- 18. The Camden County Soil Conservation District shall be notified seventy—two (72) hours in advance of any land disturbing activity @ (856) 767-6299.
- 19. At the time when the site preparation for permanent vegetative stabilization is going to be accomplished, any soil that will not provide a suitable environment to support adequate vegetative ground cover, shall be removed or treated in such a way that will permanently adjust the soil conditions and render it suitable for vegetative ground cover.
- 20. Before the provisions of the certified plan for soil erosion and sediment control have been complied with for permanent measures. all site work for the construction plans will have to be completed prior to the District issuing a Report of compliance for the final payment by the County.
- 21. Any change to the Construction Plan will require the submission of a revised Soil Erosion and Sediment Control Plan to the Camden County Soil Conservation District for recertification. The revised plans must meet all current New Jersey Soil Erosion and Sediment Control Standards.

# General Construction Notes:

- 1. All clearing items (trees, stumps, concrete, etc.) shall be removed from the project and disposed of at a lawful disposal site to be furnished by the contractor at his expense.
- 2. The Contractor shall procure all required permits, licenses and inspections. Contractor shall be responsible for all charges and fees as well as, give notices necessary for all incidentals for project. County Road Opening Permits & Soil Conservation Permits, if required shall be obtained by the Municipality at no cost to the Contractor.
- 3. All construction debris (asphalt, concrete, etc.) must be removed from the project site prior to the end of each day to eliminate any potential hazards.
- 4. All demolition / removal items (concrete, asphalt, etc.) shall be removed from the project and disposed of at a lawful disposal site, provided by the contractor, at his expense.
- 5. Excess excavated materials shall be delivered to a lawful site location, provided by the Contractor at his expense
- 6. The quantities of all asphalt or concrete, which is to be recycled, must be reported to the Municipality and County.
- 7. All areas disturbed/damaged by the Contractor, shall be returned to its original condition or better, by the Contractor, at his expense.
- 8. The location of all existing utility lines, mains, services, appurtenances must be verified by the Contractor prior to the commencement of construction. The Contractor shall perform test pits in the presence of the Construction Engineer. The Contractor shall be responsible for the repair of any damage caused by his operations. He shall notify the respective utility company for location markout prior to any excavation and the performance of the above mentioned test pits.
- 9. The Contractor is required to perform the proper notification of New Jersey One – Call Center (formerly the Garden State Underaround Plant Location Service) prior to excavation for the purpose of identifying the location of underground facilities. This requirement is in accordance with the Underground Facilities Protection Act (P.L. 1994 c. 118). Any and all utilities not subscribing to the New Jersey One – Call Center shall be contacted individually. No work shall commence without proper notifications and verification of all markouts being performed.
- 10. All Utility Contractors shall procure all required permits, licenses and inspections, pay all charges and give notices necessary for all incidentals to the due and lawful prosecution of the project.
- 11. The Contractor shall be required to coordinate his work with any and all utility companies in order to eliminate any conflicts and/or delays.
- 12. The Contractor shall be responsible for properly backfilling and compacting all trenches. No trenches shall be left open after construction hours for the day. All construction areas are to be kept in a condition that allows for safe movement of all vehicular and pedestrian traffic. (There will be no specific payment for this item, cost to be included in the price for the various items in the Proposal.)
- 13. All areas adjacent to newly installed concrete curbing, sidewalk, etc., shall be backfilled to finished grade prior to the end of each day to eliminate any potential hazards. (There will be no specific payment for this item, cost to be included in the price for various items in the Proposal.)
- 14. All areas of disturbance shall be graded so as to eliminate any mounds and/or depressions prior the end of each day to eliminate any potential hazards. (There will be no specific payment for this item, cost to be included in the price for the various items in the Proposal.).
- 15. In accordance with the "Maintenance and Protection of Pedestrian and Vehicular traffic" specification, the Contractor shall maintain "two (2) lanes of traffic, a minimum of 10 feet wide each, during all other hours." The Contractor shall provide the Engineer with a Staging Plan with the proper traffic control measures to protect both pedestrian and vehicular traffic, during all other hours. The Staging Plan shall be submitted to the Engineer and Chief of Police prior to the commencement of construction for approval.
- 16. Barricades, lighting devices and other traffic control devices shall be placed in accordance with and shall conform to Section 110. New Jersey Department of Transportation Traffic Control Standard Specifications for Road and Bridge Construction, Part 6 of the current M.U.T.C.D. and Work Zone Traffic Control (US Department of Transportation).
- 17. Traffic/ pedestrian control devices and equipment shall be placed in accordance with all applicable Federal, State, County and Municipal reaulations.
- 18. All signs which are removed during construction shall be reset either temporarily or permanently prior to the end of each day. (There will be no specific payment for this item, cost to be included in the price of various items in the Proposal.).
- 19. Temporary line striping shall be provided in order to maintain traffic flow, safety and convenient passage of traffic through project. A minimum of a 10' wide lane in each direction shall be provided during construction (NO SPECIFIC PAYMENT) <u>DETOURING OF TRAFFIC AND/OR ROAD CLOSURES</u> SHALL NOT BE PERMITTED UNLESS APPROVED BY THE CHIEF OF POLICE. Should Police Traffic Directors be required, their services shall be paid for by the Municipality at no cost to the Contractor.

CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE DEPARTMENT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. 2019 EDITION. WHICH IS INCORPORATED HEREIN BY REFERENCE. AS AMENDED AND SUPPLEMENTED. AND THE DEPARTMENT'S SUPPLEMENTARY SPECIFICATIONS FOR STATE AID PROJECTS. 2019 EDITION. WHICH IS INCORPORATED HEREIN BY REFERENCE. AS AMENDED AND SUPPLEMENTED. STANDARD CONSTRUCTION DETAILS SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE DEPARTMENT OF TRANSPORTATION. THE NEW JERSEY DEPARTMENT OF TRANSPORTATION "STANDARD ROADWAY CONSTRUCTION/ TRAFFIC CONTROL/ BRIDGE CONSTRUCTION DETAILS" BOOKLET DATED 2016 AND "ELECTRICAL BUREAU STANDARD DETAILS, 2007" AND ALL BASELINE DOCUMENT CHANGES MADE TO THESE CONSTRUCTION DETAILS. SHALL GOVERN. EXCEPT FOR THOSE DETAILS CONTAINED HEREIN. PARTIALLY FUNDED THROUGH NEW JERSEY DEPARTMENT OF TRANSPORTATION MUNICIPAL AID PROGRAM FY2020.

IMPROVEMENTS TO DAY AVENUE

# FROM N.J.S.H. 73 TO CLOVER AVENUE (PARTIALLY FUNDED BY THE N.J.D.O.T. MUNICIPAL AID PROGRAM, FY2020)

# (LENGTH OF PROJECT 850±/ 0.16 MILES)

20. The Contractor shall not store any materials or equipment along the street or which interferes with the daily activities of the residents. In addition, the Contractor shall not be permitted, at any time, to stockpile any materials or park any equipment within the municipal right-of-way after hours. The Contractor shall provide a location for staging areas and equipment storage outside of the right-of-way without creating a hazardous condition, at his expense.

21. The Contractor shall schedule the roadway reconstruction and concrete curb trenches so that they are backfilled with dense graded aggregate with ramping at the end of each day so as to maintain vehicular and pedestrian access. The Contractor shall also install the necessary steel plates over roadway trenches, roadway repairs and concrete rocker gutters at the end of each day so as to maintain vehicular and pedestrian access. (NO SPECIFIC PAYMENT) NO OVERNIGHT CLOSURES WILL BE PERMITTED UNLESS APPROVED BY THE CHIEF OF POLICE.

22. Pavement trenches shall be filled with temporary pavement, 2" thick to provide a smooth surface. The Temporary trench pavement shall be maintained by the Contractor on an as needed basis and as directed by the Engineers. (There will be no specific payment for this item, cost to be included in the price for the various items in the Proposal.).

23. The Contractor must utilize a trench box where necessary, in accordance with the U.S. Department of Labor, Occupational Safety and Health Administration, 1990, revised (29CFR Part 1926).

24. All concrete curb and sidewalk designated for removal, shall be taken from the nearest joint, as necessary, to install proposed improvements.

25. Where no joints exist on concrete drives or sidewalk, the edge shall be sawcut along straight lines before excavation or paving.

26. Paving shall be sawcut, vertically, along straight lines before excavating. Where new pavement meets existing pavement the joint shall be sealed with an approved joint sealer. (There will be no specific payment for this item, cost to be included in the price for the various items in the Proposal.)

27. The Contractor must request grade stakes at least ten (10) days prior to the start of construction. Failure to provide proper notice may result in construction delays, with no compensation for construction delays.

28. The Contractor shall not be permitted to work on Saturdays, Sundays or holidays. Should the Contractor obtain permission from the Municipality to do so, he shall be required to pay the Engineer for the Inspector's overtime. The hours of operation shall be from 7:00 a.m. to 4:00 p.m.

29. Inspections or failures to inspect any materials or workmanship by Municipal or County Officials shall in no way relieve the Contractor of his responsibilities to perform the work in accordance with applicable plans, specifications and laws.

30. All concrete shall be N.J.D.O.T. Class 'B', 28 day compressive strength. 31. The General Contractor is Designated as the "Responsible Person in Charge of Construction" and the site supervisor responsible for

construction site safety during the course of site improvements pursuant to N.J.A.C. 5: 23–2.21 (c) and (d) of the N.J. Uniform Construction Code.

32. The Contractor and all subcontractors shall comply with the Public Works Contractor Registration Act (P.L. 1999, c. 238 N.J.S.A. 34:11 – 56.48 etseg.) & New Jersey Business Registration Requirements of Public Contractors (N.J.S.A. 40A:11-23.2). (There will be no specific payment for this item, cost to be included in the price of the various items in the Proposal.)

33. The Contractor shall email submittals two (2) weeks prior to the commencement of construction for all items for review by the Engineer. (There will be no specific payment for this item, cost to be included in the price of the various items in the Proposal.)

34. The Contractor shall video record, with audio description, the entire project limits to document the site conditions and provide a CD or DVD copy to the Engineer. (there will be no specific payment for this item, cost to be included in the price of the various items in the Proposal.)

35. The Contractor shall not be permitted to deny access to or enter onto any residential or commercial property without the written permission of the property owner. The contractor shall take all measures to perform the construction to maintain access to the properties and to cause minimal inconvenience

36. The Contractor shall not enter onto any properties without the Engineer having secured a Consent to Enter from the property owner.

*37. Failure of the Contractor to follow the directions of the Engineer and/or* his representatives may result in a "STOP WORK" order. Should a "STOP WORK" order be issued, the Contractor shall incur all expenses to secure the job site and remobilization costs when authorized by the Engineer to recommence.

38. Crushed or recycled concrete or crushed or recycled asphalt will not be acceptable as a substitute to dense graded aggregate for this job.

39. All disturbed lawn areas shall be excavated and receive Topsoil, 5" and Hydroseeding, in the locations and to the limits as shown on the construction plans. The restoration shall commence within seven days of the completion of the improvements. Any area disturbed outside the limits shall be restored by the Contractor, at his expense. The sod shall be watered and maintained by the Contractor. If the sod dies within one (1) month of installation. the Contractor must remove sodding and install additional topsoil and hydroseeding, and all costs shall be at the Contractor's expense.

40. Standard Construction Details shall conform to the latest requirements of the New Jersey Department of Transportation.

## UTILITY COMPANIES

- <u>ELECTRIC</u> ATLANTIC CITY ELECTRIC 295 N. GROVE STREET BERLIN, NJ 08009
- CONTACT: MR. JULIUS ZACCONE DIRECTOR (856)753-2808
- <u>TELEPHONE</u> VERIZON 10 TANSBORO ROAD

BERLIN, NJ 08009 CONTACT:

MR. MICHAEL LEONE (856)306-8611

<u>GAS</u> SOUTH JERSEY GAS COMPANY 1 SOUTH JERSEY PLAZA FOLSOM, NJ 08037

CONTACT: MR. GLEN NANEK (609)645-2690 EXT. 6451

<u>WATER</u>

BOROUGH OF BERLIN WATER DEPARTMENT 59 S. WHITE HORSE PIKE BERLIN, NJ 08009

CONTACT: MR. JOHN ALLSEBROOK (856)767-0056

#### • <u>SEWER</u>

TOWNSHIP OF BERLIN SEWER DEPARTMENT 135 ROUTE 73 SOUTH WEST BERLIN, NJ 08091

CONTACT: MR. ANDY SIMONE (856)767-5052

• <u>CABLE</u> COMCAST 1250 HADDONFIELD-BERLIN RD. P.O. BOX 5025 CHERRY HILL, NJ 08034

CONTACT: MR. KEN STRONSKI, SR (856)669-0119

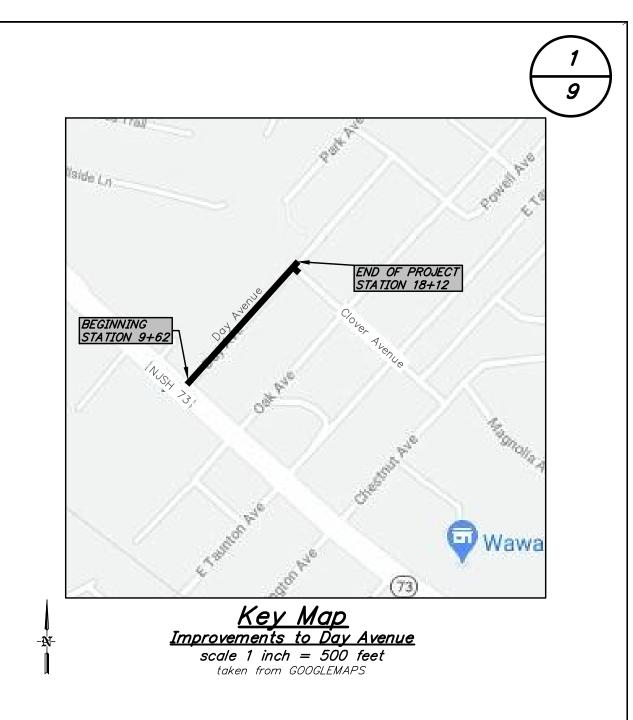
PUBLIC WORKS BERLIN TOWNSHIP PUBLIC WORKS DEPARTMENT 135 ROUTE 73 SOUTH WEST BERLIN, NJ 08091

CONTACT: Mr. Andy Simone (856)767 - 5052

- The Township shall submit and obtain the N.J.D.O.T. Highway Occupancy Permit for the proposed work at the intersection of Day Avenue and N.J.S.H. 73 at no cost to the contractor. The contractor shall comply with all permit requirements. • The intersection of Day Avenue and N.J.S.H. 73 shall be reconstructed, ie; Dense
- Graded Aggregate Subbase, 6" thick, H.M.A. 25M64 Base Course, 6" thick, and H.M.A. 12.5M64 Surface Course, 2" Thick in one (1) calendar day.

Shee	et List Table
Sheet Number	Sheet Title
1	Cover Sheet
2	Quantity Distribution Sheet
3	Construction Plan and Profile
4	Construction Plan and Profile
5	Constructon Plan and Profile
6	Intersection Grading Plan
7	Intersection Grading Plan
8	Temporary Traffic Control Plan
9	Details

REPRODUCTION, ALTERATION AND AMENDMENT OF THIS PLAN



# Anticipated Project Schedule:

- 1. Receipt of bids: October 21, 2021
- 2. Award of contract: October 25, 2021
- 3. Process contract: November 2021
- 4. Obtain N.J.D.O.T. award concurrence: November 2021
- 5. Obtain N.J.D.O.T. highway occupancy permit: November 2021
- 6. Hold pre-construction meeting and commence with construction: spring 2022

$\underline{\wedge}$	7/11/21	GENERAL REVISIONS	SH	GE
REV.	DA TE:	DESCRIPTION	DRWN.	CHKD.
		Cover Sheet		
		IJDOT FY2O2O Municipal Aid Progran Improvements to Day Avenue from NJSH 73 to Clover Avenue	7	
		Township of Berlin Camden County, New Jersey		
	8/26/21		E: AS NOT	ED
PROJECT	<sup>-</sup> No. 29—5.	24BT0121 FIELD BOOK/PAGE: SHEET No. 1	OF 9	
	NJF	GREGORY BLASE FUSCO PROFESSIONAL ENGINEER PE No. 32853 PA.PE No. 03660 NJ PROFESSIONAL PLANNER No. 4076	18–E	
BE.	RLIN, NEW	KEY ENGINEERS, HORSE PIKE JERSEY 08009-2399 OF AUTHORIZATION #24GA28041300 DATE .		

#### <u>Base Bid: Improvements to Day Avenue</u> FROM N.J.S.H. 73 TO CLOVER AVENUE

(PARTIALLY FUNDED THROUGH THE N.J.D.O.T. MUNICIPAL AID, FY2020)

Payment Items

ITEM NUMBER	DESCRIPTION	UNIT MEASURED	SHEET 3	SHEET 4	SHEET 5	SHEETE
1	CLEARING SITE	LS	LS	LS	LS	LS
2	INLET FILTER, TYPE II, 2' X 4'	UNIT	5	0	0	0
3	CONCRETE WASHOUT SYSTEM	LS	LS	LS	LS	LS
4	ROADWAY CLEANING	LS	LS	LS	LS	LS
5	SAWCUTTING	LF	640	53	100	0
6	HMA PROFILE MILLING 1 1/2" TO 3 1/2"	SY	1050	1445	290	0
7	EXCAVATION, UNCLASSIFIED	СҮ	124	5	6	0
8	CLEAN AND SEAL JOINTS	LF	660	660	145	0
9	TRAFFIC STRIPES, DOUBLE 4" WIDE YELLOW, THERMOPLASTIC	LF	76	0	0	0
10	TRAFFIC STRIPES, 6" WIDE WHITE, THERMOPLASTIC	LF	76	66	97	0
11	TRAFFIC STRIPES, 12" WIDE WHITE, THERMOPLASTIC	LF	0	66	110	0
12	TRAFFIC STRIPES, 24" WIDE WHITE, THERMOPLASTIC	LF	18	0	0	0
13	REGULATORY SIGN	SF	14.5	0	6.5	0
14	WARNING SIGN	SF	3	13	6.5	0
15	6"X8"X18" CONCRETE CURB, CLASS 'B'	LF	90	97	74	0
16	9"X16" CONCRETE CURB, CLASS 'B'	LF	50	0	0	0
17	CONCRETE SIDEWALK AND CURB RAMP, 4" THICK, CLASS 'B'	SY	21	26	25	0
18	DETECTABLE WARNING SURFACE	SF	16	16	16	0
19	DENSE GRADED AGGREGATE SUBBASE, 6" THICK	SY	220	0	0	0
20	HOT MIX ASPHALT 25M64, BASE COURSE, 6" THICK	SY	220	0	0	0
21	HOT MIX ASPHALT 12.5M64 SURFACE COURSE, 2" THICK	SY	295	0	0	0
22	HOT MIX ASPHALT, 25M64, BASE COURSE, 4" THICK	SY	280	11	12	0
23	HOT MIX ASPHALT, 9.5M64, SURFACE COURSE, 1 1/2" THICK	SY	1255	1455	305	0
24	TOPSOIL, 5" THICK	SY	65	11	22	0
25	FERTILIZER AND SEEDING, TYPE 'A'	SY	65	11	22	0
26	MULCH, 4" THICK	SY	0	8	1	0
27	FUEL PRICE ADJUSTMENT	LS	LS	LS	LS	LS
28	ASPHALT PRICE ADJUSTMENT	LS	LS	LS	LS	LS
29	TRAFFIC CONE	UNIT	19	0	0	0
30	TRAFFIC DRUM	UNIT	0	0	0	26
31	TYPE I BREAKAWAY BARRICADE	UNIT	0	0	0	11
32	TYPE III BREAKAWAY BARRICADE	UNIT	0	0	0	8
33	CONSTRUCTION SIGNS	SF	0	0	0	210
34	TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSION AND FLASHING ARROW BOARD 2' X 4'	UNIT	0	0	0	1
35	STATE POLICE TRAFFIC DIRECTOR	МН	0	0	0	24

#### <u>No Specific Payment Items:</u>

ITEM NUMBER	DESCRIPTION	UNIT MEASURED	SHEET 3	SHEET 4	SHEET 5	SHEET8
A	RECORDING CONDITIONS	NSP	NSP	NSP	NSP	NSP
В	RESET RAILROAD TIE EDGING (INCLUDED IN CLEARING SITE LINE ITEM)	LF	0	0	18	0
С	REMOVE RAILROAD TIE EDGING (INCLUDED IN CLEARING SITE LINE ITEM)	LF	0	28	26	0
D	CUT TREE ROOTS (INCLUDED IN CLEARING SITE LINE ITEM)	NSP	NSP	NSP	NSP	NSP
E	CUT TREE BRANCHES (INCLUDED IN CLEARING SITE LINE ITEM)	NSP	NSP	NSP	NSP	NSP
F	REMOVE IVY (INCLUDED IN CLEARING SITE LINE ITEM)	NSP	NSP	NSP	NSP	NSP
G	RESET STREET SIGN (INCLUDED IN CLEARING SITE LINE ITEM)	UNIT	1	0	1	0
Н	REMOVE SIGN (INCLUDED IN CLEARING SITE LINE ITEM)	UNIT	2	2	2	0
Ι	RESET UTILITY VALVE BOX (INCLUDED IN CLEARING SITE LINE ITEM)	UNIT	5	0	2	0
J	RESET MANHOLE CASTING (INCLUDED IN CLEARING SITE LINE ITEM)	UNIT	1	1	1	0
K	REMOVE CONCRETE CURB (INCLUDED IN RESPECTIVE CURB LINE ITEMS)	LF	140	97	50	0
L	REMOVE CONCRETE SIDEWALK AND CURB RAMP (INCLUDED IN CONCRETE SIDEWALK AND CURB RAMP, 4" THICK, CLASS 'B'	SY	21	26	25	0
М	JOINT SEALER (INCLUDED IN RESPECTIVE HOT MIX ASPHALT ITEMS)	LF	120	0	70	0
N	CLEANING AND SWEEPING (INCLUDED IN RESPECTIVE HOT MIX ASPHALT ITEMS)	SY	1540	1456	300	0
0	TACK COAT (INLUDED IN RESPECTIVE HOT MIX ASPHALT LINE ITEMS)	GAL	105	146	30	0
Ρ	CONCRETE SEALING (INCLUDED IN RESPECTIVE CONCRETE ITEMS)	NSP	NSP	NSP	NSP	NSP
Q	WATERING (INCLUDED IN FERTILIZER AND SEEDING, TYPE 'A' ITEM)	NSP	NSP	NSP	NSP	NSP
R	MAINTENANCE AND PROTECTION OF VEHICULAR AND PEDESTRIAN TRAFFIC (INCLUDED IN VARIOUS WORK ZONE ITEMS)	NSP	NSP	NSP	NSP	NSP

CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE DEPARTMENT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2019 EDITION, WHICH IS INCORPORATED HEREIN BY REFERENCE, AS AMENDED AND SUPPLEMENTED, AND THE DEPARTMENT'S SUPPLEMENTARY SPECIFICATIONS FOR STATE AID PROJECTS, 2019 EDITION, WHICH IS INCORPORATED HEREIN BY REFERENCE, AS AMENDED AND SUPPLEMENTED. STANDARD CONSTRUCTION DETAILS SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE DEPARTMENT OF TRANSPORTATION. THE NEW JERSEY DEPARTMENT OF TRANSPORTATION "STANDARD ROADWAY CONSTRUCTION/ TRAFFIC CONTROL/ BRIDGE CONSTRUCTION DETAILS" BOOKLET DATED 2016 AND "ELECTRICAL BUREAU STANDARD DETAILS, 2007" AND ALL BASELINE DOCUMENT CHANGES MADE TO THESE CONSTRUCTION DETAILS, SHALL GOVERN, EXCEPT FOR THOSE DETAILS CONTAINED HEREIN. PARTIALLY FUNDED THROUGH NEW JERSEY DEPARTMENT OF TRANSPORTATION MUNICIPAL AID PROGRAM FY2020.

#### <u>Alternate No. 1</u>

(partially funded through the n.j.d.o.t. municipal aid, fy2020)
Payment Items

-			
ITEM NUMBER	DESCRIPTION	UNIT MEASURED	QUANTITY
1	CONCRETE SIDEWALK, 4" THICK, CLASS 'B'	SY	46
2	TOPSOIL, 5" THICK	SY	30
3	FERTILIZER AND SEEDING, TYPE 'A'	SY	30

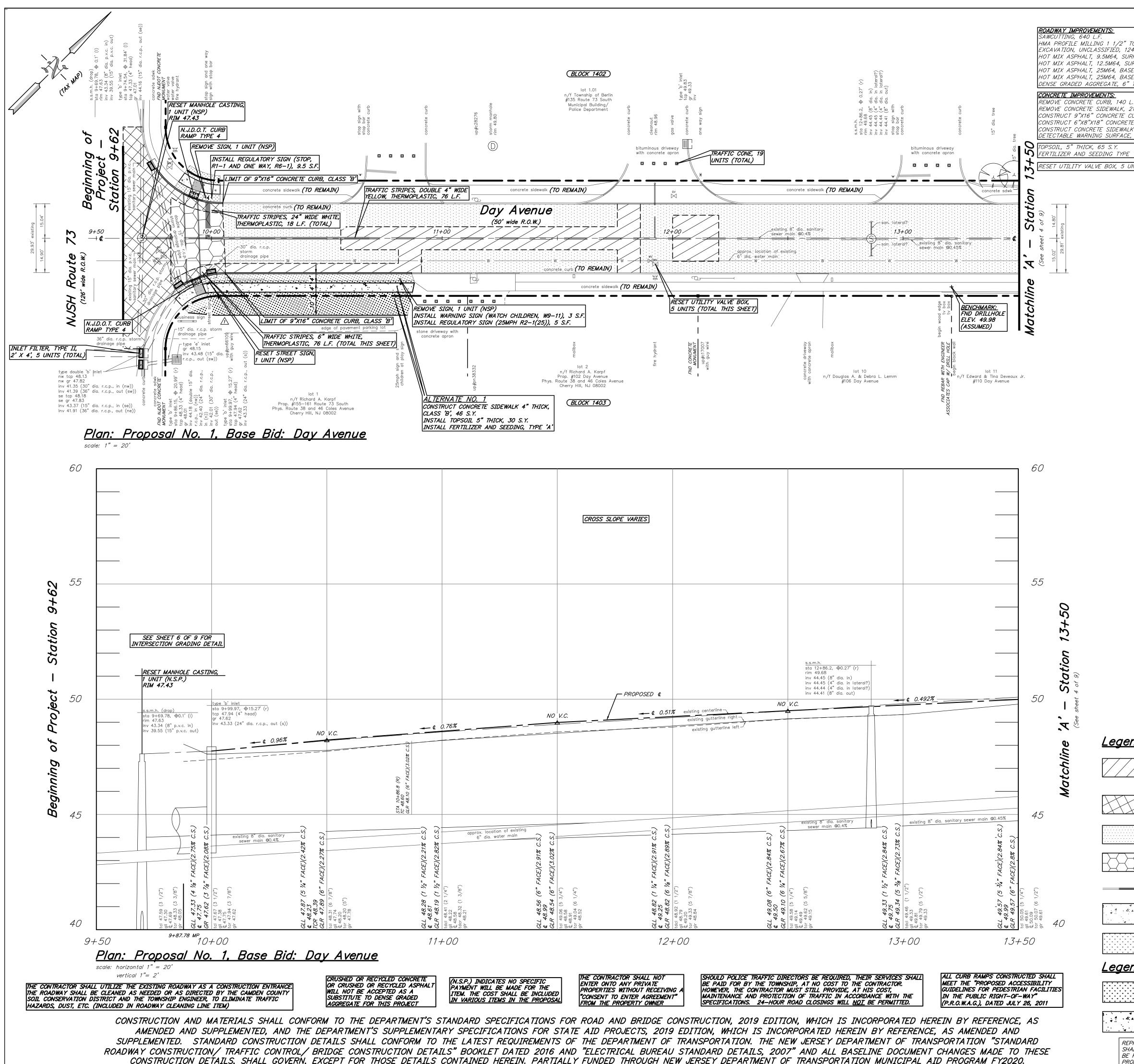
#### <u>No Specific Payment Items:</u>

ITEM NUMBER	DESCRIPTION	UNIT MEASURED	QUANTITY
А	CONCRETE SEALING (INCLUDED IN CONCRETE SIDEWALK, 4" THICK, CLASS 'B')	NSP	NSP
В	WATERING (INCLUDED IN FERTILIZER AND SEEDING, TYPE 'A' LINE ITEM)	NSP	NSP
С	MAINTENANCE AND PROTECTION OF VEHICULAR AND PEDESTRIAN TRAFFIC (INCLUDED IN VARIOUS WORK ZONE ITEMS)	NSP	NSP

REPRODUCTION, ALTERATION AND AMENDMENT OF THIS PLAN

7/11/21	GENERAL REVISIONS		SH	GE
REV. DATE:	Description Quantity Distribution Sho	eet	DRWN.	CHKD.
	OT FY2O2O Municipal Aid Pro provements to Day Avenue NJSH 73 to Clover Avenue	from	7	
	Township of Berlin Camden County, New Jersey			
DATE: 08/26/21 PROJECT No. 29–524BT0	DRAWN BY: S. Heebner CHKD. BY: 0121 FIELD BOOK/PAGE: SHEE	SCALE T No. 2	:: AS NOT OF 9	ED
	<b>REGORY BLASE FUS</b> PROFESSIONAL ENGINEER 0. 32853 PA.PE No. NJ PROFESSIONAL PLANNER No. 4076	03660	98–E	
80 S. WHITE HORS BERLIN, NEW JERS		DATE _		

2 9



TO 3 1/2", 1,050 S.Y. 24 C.Y. RFACE COURSE, 1 1/2" THICK, 1255 S.Y.	ITEM NUMBER	DESCRIPTION	UNIT MEASURED	QUANTIT
IRFACE COURSE, 2" THICK, 295 S.Y.	1	CLEARING SITE	LS	LS
TE COURSE, 4" THICK, 280 S.Y.	2	INLET FILTER, TYPE II, 2' X 4'	UNIT	5
E COURSE, 6" THICK, 220 S.Y. THICK, 220 S.Y.	3	CONCRETE WASHOUT SYSTEM	LS	LS
· · · · · · · · · · · · · · · · · · ·	7 4	ROADWAY CLEANING	LS	LS
L.F. (N.S.P.)	5	SAWCUTTING	LF	640
21 S.Y. (N.S.P.) CURB, CLASS 'B', 50 L.F.	6	HMA PROFILE MILLING 1 1/2" TO 3 1/2"	SY	1050
E CURB, CLASS 'B', 90 L.F.	7	EXCAVATION, UNCLASSIFIED	СҮ	124
K AND CURB RAMP, 4" THICK, CLASS 'B', 21 S. , 16 S.F.	Y. 8	CLEAN AND SEAL JOINTS	LF	660
	9	TRAFFIC STRIPES, DOUBLE 4" WIDE YELLOW, THERMOPLASTIC	LF	76
'A', 65 S.Y.	10	TRAFFIC STRIPES, 6" WIDE WHITE, THERMOPLASTIC	LF	76
INITS (N.S.P.)	11	TRAFFIC STRIPES, 12" WIDE WHITE, THERMOPLASTIC	LF	0
	12	TRAFFIC STRIPES, 24" WIDE WHITE, THERMOPLASTIC	LF	18
	13	REGULATORY SIGN	SF	14.5
	14	WARNING SIGN	SF	3
	15	6"X8"X18" CONCRETE CURB, CLASS 'B'	LF	90
	16	9"X16" CONCRETE CURB, CLASS 'B'	LF	50
	17	CONCRETE SIDEWALK AND CURB RAMP, 4" THICK, CLASS 'B'	SY	21
	18	DETECTABLE WARNING SURFACE	SF	16
	19	DENSE GRADED AGGREGATE SUBBASE, 6" THICK	SY	220
	20	HOT MIX ASPHALT 25M64, BASE COURSE, 6" THICK	SY	220
	21	HOT MIX ASPHALT 12.5M64 SURFACE COURSE, 2" THICK	SY	295
	22	HOT MIX ASPHALT, 25M64, BASE COURSE, 4" THICK	SY	280
	23	HOT MIX ASPHALT, 9.5M64, SURFACE COURSE, 1 1/2" THICK	SY	1255
	24	TOPSOIL, 5" THICK	SY	65
	25	FERTILIZER AND SEEDING, TYPE 'A'	SY	65
	26	MULCH, 4" THICK	SY	0
	27	FUEL PRICE ADJUSTMENT	LS	LS
	28	ASPHALT PRICE ADJUSTMENT	LS	LS
	29	TRAFFIC CONE	UNIT	19

#### No Specific Payment Items:

#### ITEM NUMBER DESCRIPTION UNIT MEASURED QUANTITY Α RECORDING CONDITIONS NSP NSP RESET RAILROAD TIE EDGING (INCLUDED IN CLEARING SITE LINE ITEM) 0 R 1F REMOVE RAILROAD TIE EDGING (INCLUDED IN CLEARING SITE LINE ITEM) 0 LF NSP NSP D CUT TREE ROOTS (INCLUDED IN CLEARING SITE LINE ITEM) CUT TREE BRANCHES (INCLUDED IN CLEARING SITE LINE ITEM, NSP NSP Ε NSP REMOVE IVY (INCLUDED IN CLEARING SITE LINE ITEM) NSP RESET STREET SIGN (INCLUDED IN CLEARING SITE LINE ITEM) UNIT 1 REMOVE SIGN (INCLUDED IN CLEARING SITE LINE ITEM) UNIT Н 2 RESET UTILITY VALVE BOX (INCLUDED IN CLEARING SITE LINE ITEM) UNIT 5 Γ RESET MANHOLE CASTING (INCLUDED IN CLEARING SITE LINE ITEM) UNIT 1 REMOVE CONCRETE CURB (INCLUDED IN RESPECTIVE CURB LINE ITEMS) 140 1 F K REMOVE CONCRETE SIDEWALK AND CURB RAMP (INCLUDED IN CONCRETE SIDEWALK AND CURB RAMP, SY 21 4" THICK, CLASS 'B' JOINT SEALER (INCLUDED IN RESPECTIVE HOT MIX ASPHALT ITEMS) LF 120 М CLEANING AND SWEEPING (INCLUDED IN RESPECTIVE HOT MIX ASPHALT ITEMS) 1540 N SY TACK COAT (INLUDED IN RESPECTIVE HOT MIX ASPHALT LINE ITEMS) GAL 105 CONCRETE SEALING (INCLUDED IN RESPECTIVE CONCRETE ITEMS) NSP Р NSP WATERING (INCLUDED IN FERTILIZER AND SEEDING, TYPE 'A' ITEM) NSP NSP Q MAINTENANCE AND PROTECTION OF VEHICULAR AND PEDESTRIAN TRAFFIC (INCLUDED IN VARIOUS NSP NSP WORK ZONE ITEMS)

#### Alternate No. 1: Improvements to Day Avenue

FROM N.J.S.H. 73 TO CLOVER AVENUE (PARTIALLY FUNDED THROUGH THE N.J.D.O.T. MUNICIPAL AID, FY2020)

Payment Items

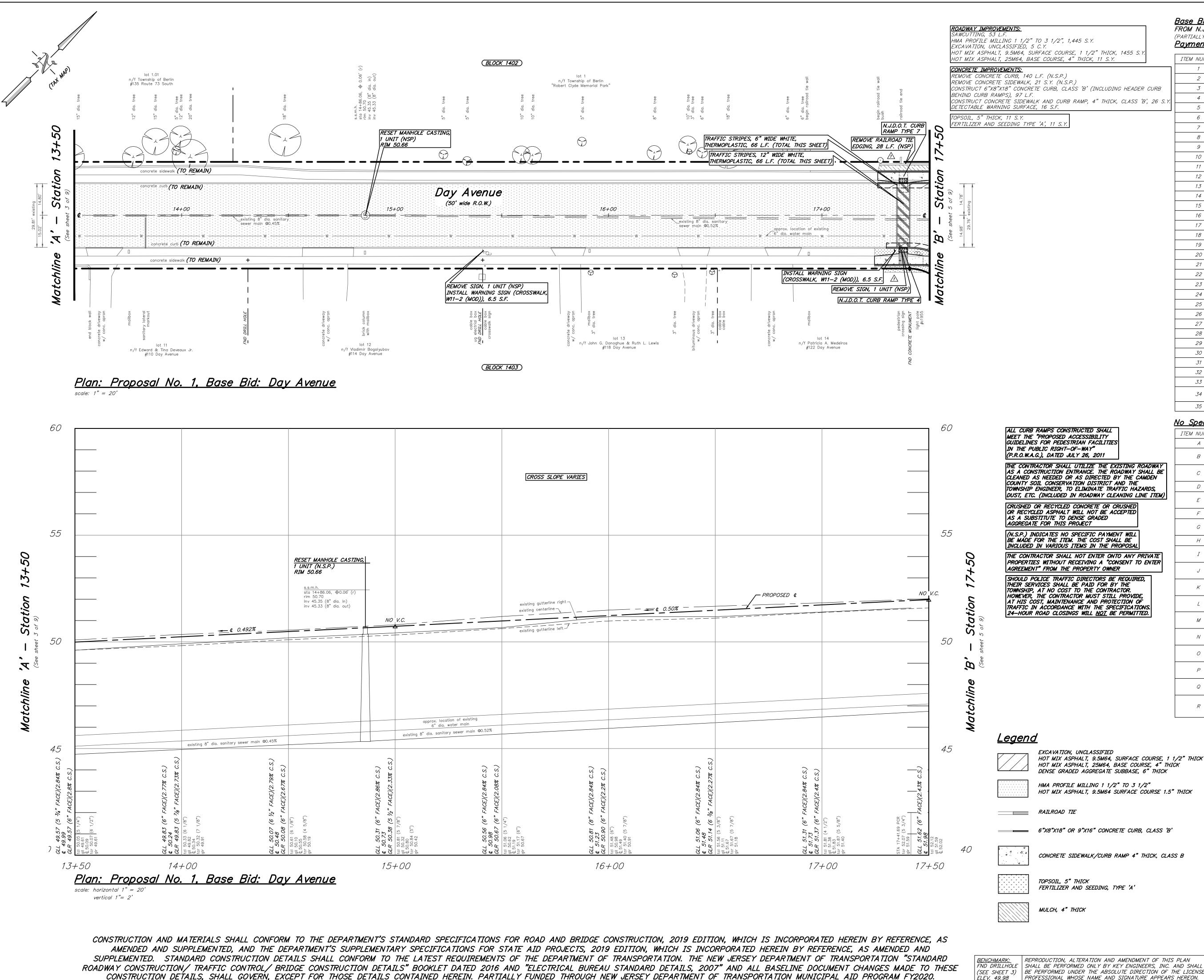
ITEM NUMBER	DESCRIPTION	UNIT MEASURED	QUANTITY
1	CONCRETE SIDEWALK, 4" THICK, CLASS 'B'	SY	46
2	TOPSOIL, 5" THICK	SY	30
3	FERTILIZER AND SEEDING, TYPE 'A'	SY	30

#### No Specific Payment Items:

ITEM NUMBER	DESCRIPTION	UNIT MEASURED	QUANTITY
A	CONCRETE SEALING (INCLUDED IN CONCRETE SIDEWALK, 4" THICK, CLASS 'B')	NSP	NSP
В	WATERING (INCLUDED IN FERTILIZER AND SEEDING, TYPE 'A' LINE ITEM)	NSP	NSP
С	MAINTENANCE AND PROTECTION OF VEHICULAR AND PEDESTRIAN TRAFFIC (INCLUDED IN VARIOUS WORK ZONE ITEMS)	NSP	NSP

## Legend: Base Bid

	EXCAVATION, UNCLASSIFIED HOT MIX ASPHALT, 9.5M64, SURFACE COURSE, 1 1/2" THICH HOT MIX ASPHALT, 25M64, BASE COURSE, 4" THICK	ĸ				
H	EXCAVATION, UNCLASSIFIED HOT MIX ASPHALT, 12.5M64, SURFACE COURSE, 2" THICK HOT MIX ASPHALT, 25M64, BASE COURSE, 6" THICK DENSE GRADED AGGREGATE SUBBASE, 6" THICK					
· · · · · ·	HMA PROFILE MILLING 1 1/2" TO 3 1/2"	<u> </u>	GENERAL REVISION DESCRIPTION	<u>'S</u>	SH DRWN. C	GE CHKD.
	HOT MIX ASPHALT, 9.5M64 SURFACE COURSE 1.5" THICK	• •		and Dr.		STIND.
$\supset$	HMA PROFILE MILLING 1 1/2" TO 3 1/2"		Construction Plan		Sille	
$\rightarrow$	HOT MIX ASPHALT, 12.5M64 SURFACE COURSE 2" THICK		JDOT FY2020 Municipal		-	
	6"X8"X18" OR 9"X16" CONCRETE CURB, CLASS 'B'		Improvements to Day		rom	
	U XU XIU UN Y XIU CONCRETE COND, CLASS B		NJSH 73 to Clover			
. ∆: ∆	CONCRETE SIDEWALK/CURB RAMP 4" THICK, CLASS B		Township of Be Camden County, Nev			
4	CONCRETE SIDE WALK/CORD RAMF 4 THICK, CLASS B	DATE: 08 (00 (01		<b>,</b>		
* * * *	TOPSOIL, 5" THICK	DATE: 08/26/21 PROJECT No. 29–5.	DRAWN BY: S. Heebner CHKD. B 24BT0121 FIELD BOOK/PAGE:		SCALE: AS NOTED	
· · · · · · · · · · · · · · · · · · ·	FERTILIZER AND SEEDING, TYPE 'A'		GREGORY BLASE	E FUSC	<i>CO</i>	
			PROFESSIONAL EN			
jenc	<u>d: Alternate No. 1</u>	NJF	E No. 32853	PA.PE No.	036608–E	
•••••	TOPSOIL, 5" THICK		NJ PROFESSIONAL PLANNE	:R No. 4076		
• • • • •	FERTILIZER AND SEEDING, TYPE 'A'		KEY			
4 . 4: 4	CONCRETE SIDEWALK/CURB RAMP 4" THICK, CLASS B		ENGINEERS, INC.			
	DUCTION, ALTERATION AND AMENDMENT OF THIS PLAN BE PERFORMED ONLY BY KEY ENGINEERS, INC. AND SHALL	80 S. WHITE				
BE PEF	RFORMED UNDER THE ABSOLUTE DIRECTION OF THE LICENSED SSIONAL WHOSE NAME AND SIGNATURE APPEARS HEREON.		JERSEY 08009–2399 www.keyengine OF AUTHORIZATION #24GA28041300		DA TE	



ELEV. 49.98 PROFESSIONAL WHOSE NAME AND SIGNATURE APPEARS HEREON.

#### Base Bid: Improvements to Day Avenue FROM N.J.S.H. 73 TO CLOVER AVENUE

(PARTIALLY FUNDED THROUGH THE N.J.D.O.T. MUNICIPAL AID, FY2020)

HOT MIX ASPHALT, 9.5M64, SURFACE COURSE, 1 1/2" THICK, 1455 S.Y

CONSTRUCT 6"X8"X18" CONCRETE CURB, CLASS 'B' (INCLUDING HEADER CURB

ITEM NUMBER	DESCRIPTION	UNIT MEASURED	QUANTITY
1	CLEARING SITE	LS	LS
2	INLET FILTER, TYPE II, 2' X 4'	UNIT	0
3	CONCRETE WASHOUT SYSTEM	LS	LS
4	ROADWAY CLEANING	LS	LS
5	SAWCUTTING	LF	53
6	HMA PROFILE MILLING 1 1/2" TO 3 1/2"	SY	1445
7	EXCAVATION, UNCLASSIFIED	СҮ	5
8	CLEAN AND SEAL JOINTS	LF	660
9	TRAFFIC STRIPES, DOUBLE 4" WIDE YELLOW, THERMOPLASTIC	LF	0
10	TRAFFIC STRIPES, 6" WIDE WHITE, THERMOPLASTIC	LF	66
11	TRAFFIC STRIPES, 12" WIDE WHITE, THERMOPLASTIC	LF	66
12	TRAFFIC STRIPES, 24" WIDE WHITE, THERMOPLASTIC	LF	0
13	REGULATORY SIGN	SF	0
14	WARNING SIGN	SF	13
15	6"X8"X18" CONCRETE CURB, CLASS 'B'	LF	97
16	9"X16" CONCRETE CURB, CLASS 'B'	LF	0
17	CONCRETE SIDEWALK AND CURB RAMP, 4" THICK, CLASS 'B'	SY	26
18	DETECTABLE WARNING SURFACE	SF	16
19	DENSE GRADED AGGREGATE SUBBASE, 6" THICK	SY	0
20	HOT MIX ASPHALT 25M64, BASE COURSE, 6" THICK	SY	0
21	HOT MIX ASPHALT 12.5M64 SURFACE COURSE, 2" THICK	SY	0
22	HOT MIX ASPHALT, 25M64, BASE COURSE, 4" THICK	SY	11
23	HOT MIX ASPHALT, 9.5M64, SURFACE COURSE, 1 1/2" THICK	SY	1455
24	TOPSOIL, 5" THICK	SY	11
25	FERTILIZER AND SEEDING, TYPE 'A'	SY	11
26	MULCH, 4" THICK	SY	8
27	FUEL PRICE ADJUSTMENT	LS	LS
28	ASPHALT PRICE ADJUSTMENT	LS	LS
29	TRAFFIC CONE	UNIT	0
30	TRAFFIC DRUM	UNIT	0
31	TYPE I BREAKAWAY BARRICADE	UNIT	0
32	TYPE III BREAKAWAY BARRICADE	UNIT	0
33	CONSTRUCTION SIGNS	SF	0
34	TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSION AND FLASHING ARROW BOARD 2' X 4'	UNIT	0
35	STATE POLICE TRAFFIC DIRECTOR	МН	0

9

#### No Specific Payment Items:

ITEM NUMBER	DESCRIPTION	UNIT MEASURED	QUANTITY
A	RECORDING CONDITIONS	NSP	NSP
В	RESET RAILROAD TIE EDGING (INCLUDED IN CLEARING SITE LINE ITEM)	LF	0
С	REMOVE RAILROAD TIE EDGING (INCLUDED IN CLEARING SITE LINE ITEM)	LF	0
D	CUT TREE ROOTS (INCLUDED IN CLEARING SITE LINE ITEM)	NSP	NSP
E	CUT TREE BRANCHES (INCLUDED IN CLEARING SITE LINE ITEM)	NSP	NSP
F	REMOVE IVY (INCLUDED IN CLEARING SITE LINE ITEM)	NSP	NSP
G	RESET STREET SIGN (INCLUDED IN CLEARING SITE LINE ITEM)	UNIT	1
Н	REMOVE SIGN (INCLUDED IN CLEARING SITE LINE ITEM)	UNIT	2
Ι	RESET UTILITY VALVE BOX (INCLUDED IN CLEARING SITE LINE ITEM)	UNIT	5
J	RESET MANHOLE CASTING (INCLUDED IN CLEARING SITE LINE ITEM)	UNIT	1
K	REMOVE CONCRETE CURB (INCLUDED IN RESPECTIVE CURB LINE ITEMS)	LF	140
L	REMOVE CONCRETE SIDEWALK AND CURB RAMP (INCLUDED IN CONCRETE SIDEWALK AND CURB RAMP, 4" THICK, CLASS 'B'	SY	21
М	JOINT SEALER (INCLUDED IN RESPECTIVE HOT MIX ASPHALT ITEMS)	LF	120
N	CLEANING AND SWEEPING (INCLUDED IN RESPECTIVE HOT MIX ASPHALT ITEMS)	SY	1540
0	TACK COAT (INLUDED IN RESPECTIVE HOT MIX ASPHALT LINE ITEMS)	GAL	105
Р	CONCRETE SEALING (INCLUDED IN RESPECTIVE CONCRETE ITEMS)	NSP	NSP
Q	WATERING (INCLUDED IN FERTILIZER AND SEEDING, TYPE 'A' ITEM)	NSP	NSP
R	MAINTENANCE AND PROTECTION OF VEHICULAR AND PEDESTRIAN TRAFFIC (INCLUDED IN VARIOUS WORK ZONE ITEMS)	NSP	NSP

ALL CURB RAMPS CONSTRUCTED SHALL MEET THE "PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY" (P.R.O.W.A.G.), DATED JULY 26, 2011

THE CONTRACTOR SHALL UTILIZE THE EXISTING ROADWAY AS A CONSTRUCTION ENTRANCE. THE ROADWAY SHALL BE CLEANED AS NEEDED OR AS DIRECTED BY THE CAMDEN COUNTY SOIL CONSERVATION DISTRICT AND THE TOWNSHIP ENGINEER, TO ELIMINATE TRAFFIC HAZARDS, DUST, ETC. (INCLUDED IN ROADWAY CLEANING LINE ITEM)

OR RECYCLED ASPHALT WILL NOT BE ACCEPTED AS A SUBSTITUTE TO DENSE GRADED AGGREGATE FOR THIS PROJECT

(N.S.P.) INDICATES NO SPECIFIC PAYMENT WILL BE MADE FOR THE ITEM. THE COST SHALL BE INCLUDED IN VARIOUS ITEMS IN THE PROPOSAL

THE CONTRACTOR SHALL NOT ENTER ONTO ANY PRIVATE PROPERTIES WITHOUT RECEIVING A "CONSENT TO ENTER AGREEMENT" FROM THE PROPERTY OWNER

SHOULD POLICE TRAFFIC DIRECTORS BE REQUIRED, THEIR SERVICES SHALL BE PAID FOR BY THE TOWNSHIP, AT NO COST TO THE CONTRACTOR. HOWEVER, THE CONTRACTOR MUST STILL PROVIDE, AT HIS COST, MAINTENANCE AND PROTECTION OF TRAFFIC IN ACCORDANCE WITH THE SPECIFICATIONS. 24-HOUR ROAD CLOSINGS WILL NOT BE PERMITTED.

EXCAVATION, UNCLASSIFIED HOT MIX ASPHALT, 9.5M64, SURFACE COURSE, 1 1/2" THICK HOT MIX ASPHALT, 25M64, BASE COURSE, 4" THICK DENSE GRADED AGGREGATE SUBBASE, 6" THICK

HMA PROFILE MILLING 1 1/2" TO 3 1/2" HOT MIX ASPHALT, 9.5M64 SURFACE COURSE 1.5" THICK

RAILROAD TIE

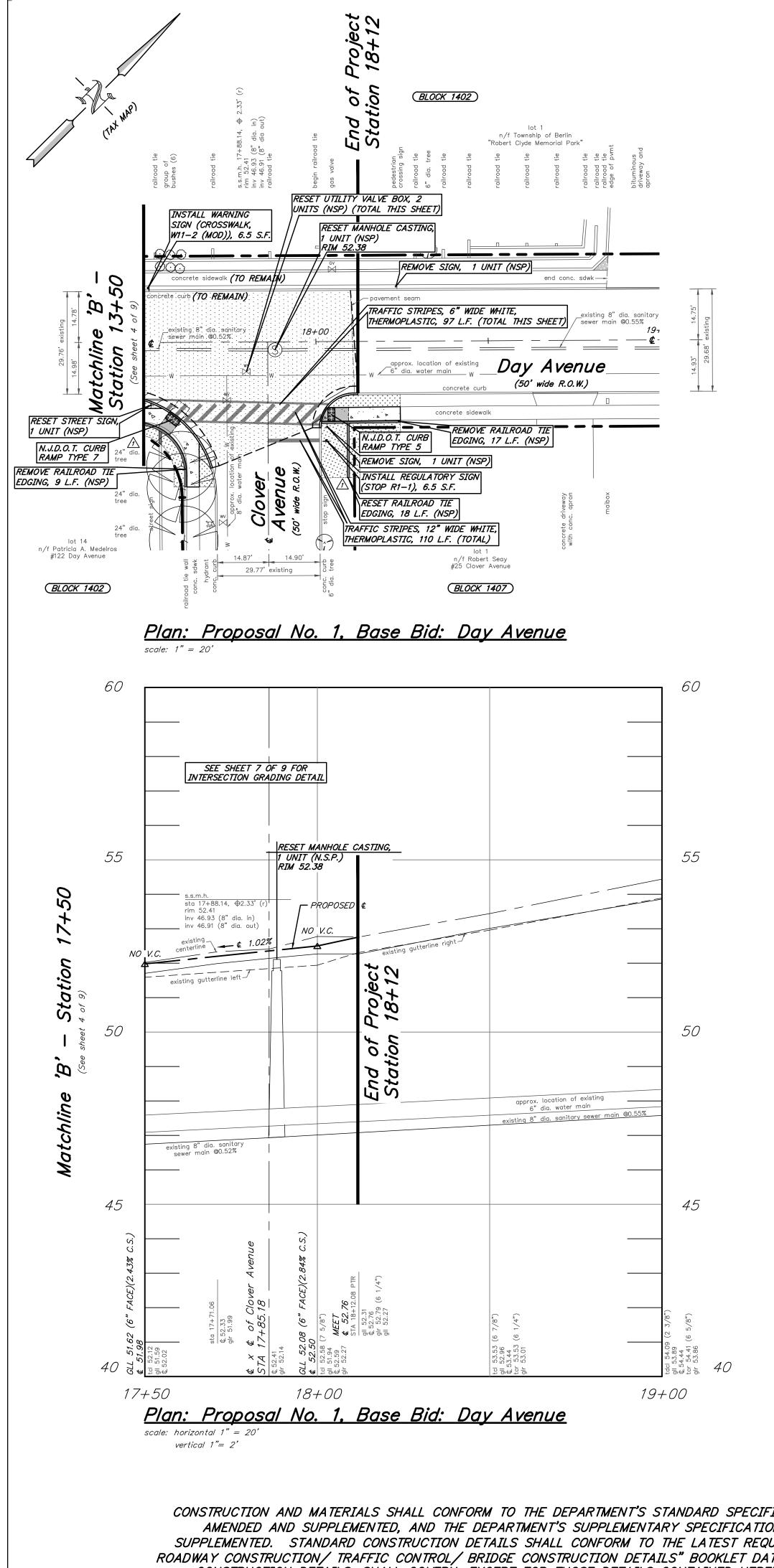
6"X8"X18" OR 9"X16" CONCRETE CURB, CLASS 'B'

CONCRETE SIDEWALK/CURB RAMP 4" THICK, CLASS B

TOPSOIL, 5" THICK FERTILIZER AND SEEDING, TYPE 'A'

MULCH, 4" THICK

		GENERAL REVISIONS	SH	GE
	REV. DATE:	DESCRIPTION	DRWN.	CHKD
		Construction Plan and Profi	ile	
		NJDOT FY2O2O Municipal Aid Progra Improvements to Day Avenue from NJSH 73 to Clover Avenue		
		Township of Berlin Camden County, New Jersey		
	DATE: 08/26/21 PROJECT No. 29-		CALE: AS NOT 4 OF 9	ED
	Nc	GREGORY BLASE FUSCO PROFESSIONAL ENGINEER IPE No. 32853 PA.PE No. 036 NJ PROFESSIONAL PLANNER No. 4076		
		KEY ENGINEERS, INC.		
ED	BERLIN, NEI	HURSE PIKE V fax: (856) 753–1091 W JERSEY 08009–2399 www.keyengineers.com	TE	



#### ROADWAY IMPROVEMENTS: SAWCUTTING. 100 L.F

HMA PROFILE MILLING 1 1/2" TO 3 1/2", 2 EXCAVATION, UNCLASSIFIED, 6 C.Y. HOT MIX ASPHALT, 9.5M64, SURFACE COURS HOT MIX ASPHALT, 25M64, BASE COURSE,

#### CONCRETE IMPROVEMENTS: REMOVE CONCRETE CURB, 50 L.F. (N.S.P.)

REMOVE CONCRETE SIDEWALK. 25 S.Y. (N.S.P.) CONSTRUCT 6"X8"X18" CONCRETE CURB, CLASS 'B' (INCLUDING HEADER CURB BEHIND CURB RAMPS), 74 L.F. CONSTRUCT CONCRETE SIDEWALK AND CURB RAMP, 4" THICK, CLASS 'B', 25 S.Y. DETECTABLE WARNING SURFACE, 16 S.F.

TOPSOIL, 5" THICK, 22 S.Y. FERTILIZER AND SEEDING TYPE 'A', 22 S.Y RESET UTILITY VALVE BOX, 2 UNITS (N.S.P.

#### ALL CURB RAMPS CONSTRUCTED SHALL MEET THE "PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY" (P.R.O.W.A.G.), DATED JULY 26, 2011

THE CONTRACTOR SHALL UTILIZE THE EXISTING ROADWAY AS A CONSTRUCTION ENTRANCE. THE ROADWAY SHALL BE CLEANED AS NEEDED OR AS DIRECTED BY THE CAMDEN COUNTY SOIL CONSERVATION DISTRICT AND THE TOWNSHIP ENGINEER, TO ELIMINATE TRAFFIC HAZARDS, DUST, ETC. (INCLUDED IN ROADWAY CLEANING LINE ITEM)

CRUSHED OR RECYCLED CONCRETE OR CRUSHED OR RECYCLED ASPHALT WILL NOT BE ACCEPTED AS A SUBSTITUTE TO DENSE GRADED AGGREGATE FOR THIS PROJECT

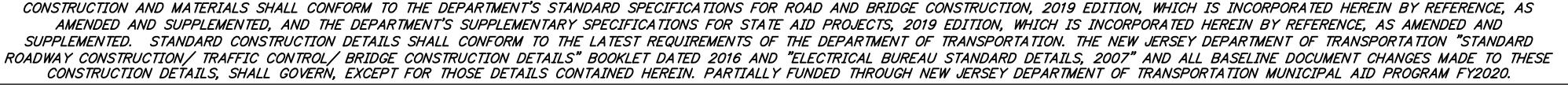
(N.S.P.) INDICATES NO SPECIFIC PAYMENT WILL BE MADE FOR THE ITEM. THE COST SHALL BE INCLUDED IN VARIOUS ITEMS IN THE PROPOSAL

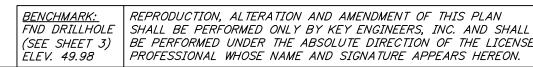
THE CONTRACTOR SHALL NOT ENTER ONTO ANY PRIVATE PROPERTIES WITHOUT RECEIVING A "CONSENT TO ENTER AGREEMENT" FROM THE PROPERTY OWNER

SHOULD POLICE TRAFFIC DIRECTORS BE REQUIRED, THEIR SERVICES SHALL BE PAID FOR BY THE TOWNSHIP, AT NO COST TO THE CONTRACTOR. HOWEVER, THE CONTRACTOR MUST STILL PROVIDE, AT HIS COST, MAINTENANCE AND PROTECTION OF TRAFFIC THE ADDRESS WITH THE SECONDATION TRAFFIC IN ACCORDANCE WITH THE SPECIFICATIONS. 24-HOUR ROAD CLOSINGS WILL NOT BE PERMITTED.

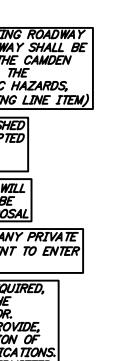
## <u>Legend</u>

	EXCAVATION, UNCLASSIFIED HOT MIX ASPHALT, 9.5M64, S HOT MIX ASPHALT, 25M64, B, DENSE GRADED AGGREGATE S
•••••	HMA PROFILE MILLING 1 1/2 HOT MIX ASPHALT, 9.5M64 S
	RAILROAD TIE
	6"X8"X18" OR 9"X16" CONCRE
	CONCRETE SIDEWALK/CURB R
	TOPSOIL, 5" THICK FERTILIZER AND SEEDING, TY
	MULCH, 4" THICK





290 S.Y.	
PSE, 1 1/2" THICK, 30 4" THICK, 12 S.Y.	95 <i>S.</i> Y.



SURFACE COURSE, 1 1/2" THICK BASE COURSE, 4" THICK SUBBASE, 6" THICK

'2" TO 3 1/2" SURFACE COURSE 1.5" THICK

RETE CURB, CLASS 'B'

RAMP 4" THICK, CLASS B

TYPE 'A'

ITEM NUMBER	DESCRIPTION	UNIT MEASURED	QUANTITY
1	CLEARING SITE	LS	LS
2	INLET FILTER, TYPE II, 2' X 4'	UNIT	0
3	CONCRETE WASHOUT SYSTEM	LS	LS
4	ROADWAY CLEANING	LS	LS
5	SAWCUTTING	LF	100
6	HMA PROFILE MILLING 1 1/2" TO 3 1/2"	SY	290
7	EXCAVATION, UNCLASSIFIED	СҮ	6
8	CLEAN AND SEAL JOINTS	LF	145
9	TRAFFIC STRIPES, DOUBLE 4" WIDE YELLOW, THERMOPLASTIC	LF	0
10	TRAFFIC STRIPES, 6" WIDE WHITE, THERMOPLASTIC	LF	97
11	TRAFFIC STRIPES, 12" WIDE WHITE, THERMOPLASTIC	LF	110
12	TRAFFIC STRIPES, 24" WIDE WHITE, THERMOPLASTIC	LF	0
13	REGULATORY SIGN	SF	6.5
14	WARNING SIGN	SF	6.5
15	6"X8"X18" CONCRETE CURB, CLASS 'B'	LF	74
16	9"X16" CONCRETE CURB, CLASS 'B'	LF	0
17	CONCRETE SIDEWALK AND CURB RAMP, 4" THICK, CLASS 'B'	SY	25
18	DETECTABLE WARNING SURFACE	SF	16
19	DENSE GRADED AGGREGATE SUBBASE, 6" THICK	SY	0
20	HOT MIX ASPHALT 25M64, BASE COURSE, 6" THICK	SY	0
21	HOT MIX ASPHALT 12.5M64 SURFACE COURSE, 2" THICK	SY	0
22	HOT MIX ASPHALT, 25M64, BASE COURSE, 4" THICK	SY	12
23	HOT MIX ASPHALT, 9.5M64, SURFACE COURSE, 1 1/2" THICK	SY	305
24	TOPSOIL, 5" THICK	SY	22
25	FERTILIZER AND SEEDING, TYPE 'A'	SY	22
26	MULCH, 4" THICK	SY	1
27	FUEL PRICE ADJUSTMENT	LS	LS
28	ASPHALT PRICE ADJUSTMENT	LS	LS
29	TRAFFIC CONE	UNIT	0
30	TRAFFIC DRUM	UNIT	0
31	TYPE I BREAKAWAY BARRICADE	UNIT	0
32	TYPE III BREAKAWAY BARRICADE	UNIT	0
33	CONSTRUCTION SIGNS	SF	0
34	TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSION AND FLASHING ARROW BOARD 2' X 4'	UNIT	0
35	STATE POLICE TRAFFIC DIRECTOR	МН	0

5

9

#### No Specific Payment Items:

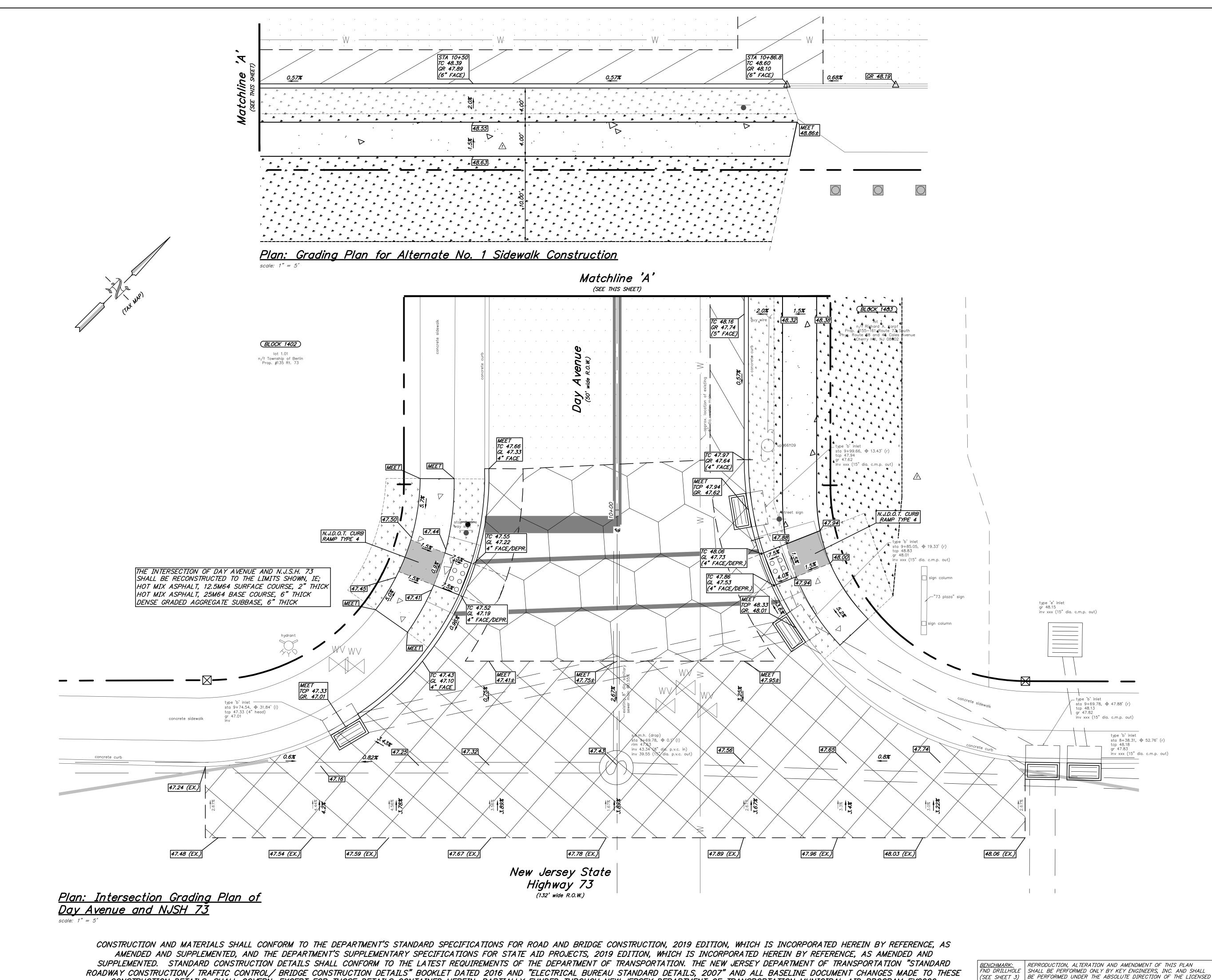
Base Bid: Improvements to Day Avenue

(PARTIALLY FUNDED THROUGH THE N.J.D.O.T. MUNICIPAL AID, FY2020)

FROM N.J.S.H. 73 TO CLOVER AVENUE

ITEM NUMBER	DESCRIPTION	UNIT MEASURED	QUANTITY
А	RECORDING CONDITIONS	NSP	NSP
В	RESET RAILROAD TIE EDGING (INCLUDED IN CLEARING SITE LINE ITEM)	LF	18
С	REMOVE RAILROAD TIE EDGING (INCLUDED IN CLEARING SITE LINE ITEM)	LF	26
D	CUT TREE ROOTS (INCLUDED IN CLEARING SITE LINE ITEM)	NSP	NSP
E	CUT TREE BRANCHES (INCLUDED IN CLEARING SITE LINE ITEM)	NSP	NSP
F	REMOVE IVY (INCLUDED IN CLEARING SITE LINE ITEM)	NSP	NSP
G	RESET STREET SIGN (INCLUDED IN CLEARING SITE LINE ITEM)	UNIT	1
Н	REMOVE SIGN (INCLUDED IN CLEARING SITE LINE ITEM)	UNIT	2
Ι	RESET UTILITY VALVE BOX (INCLUDED IN CLEARING SITE LINE ITEM)	UNIT	2
J	RESET MANHOLE CASTING (INCLUDED IN CLEARING SITE LINE ITEM)	UNIT	1
K	REMOVE CONCRETE CURB (INCLUDED IN RESPECTIVE CURB LINE ITEMS)	LF	50
L	REMOVE CONCRETE SIDEWALK AND CURB RAMP (INCLUDED IN CONCRETE SIDEWALK AND CURB RAMP, 4" THICK, CLASS 'B'	SY	25
М	JOINT SEALER (INCLUDED IN RESPECTIVE HOT MIX ASPHALT ITEMS)	LF	70
N	CLEANING AND SWEEPING (INCLUDED IN RESPECTIVE HOT MIX ASPHALT ITEMS)	SY	300
0	TACK COAT (INLUDED IN RESPECTIVE HOT MIX ASPHALT LINE ITEMS)	GAL	30
Р	CONCRETE SEALING (INCLUDED IN RESPECTIVE CONCRETE ITEMS)	NSP	NSP
Q	WATERING (INCLUDED IN FERTILIZER AND SEEDING, TYPE 'A' ITEM)	NSP	NSP
R	MAINTENANCE AND PROTECTION OF VEHICULAR AND PEDESTRIAN TRAFFIC (INCLUDED IN VARIOUS WORK ZONE ITEMS)	NSP	NSP

$\triangle$	7/11/21	GENERAL REVISIONS	SH	GE
REV.	DA TE:	DESCRIPTION	DRWN.	CHKD.
		Constructon Plan and Profile	•	
	/	NJDOT FY2020 Municipal Aid Prograr Improvements to Day Avenue from NJSH 73 to Clover Avenue	n	
		Township of Berlin Camden County, New Jersey		
DA TE:	08/26/21		E: AS NOT	TED
PROJEC	CT No. 29-3	524BT0121 FIELD BOOK/PAGE: SHEET No. 5	OF 9	
		GREGORY BLASE FUSCO PROFESSIONAL ENGINEER		
	NJi	PE No. 32853 PA.PE No. 0366 NJ PROFESSIONAL PLANNER No. 4076	08–E	
		KEY ENGINEERS, HORSE PIKE JERSEY 08009-2399 Www.keyengineers.com		
		OF AUTHORIZATION #24GA28041300 DATE		

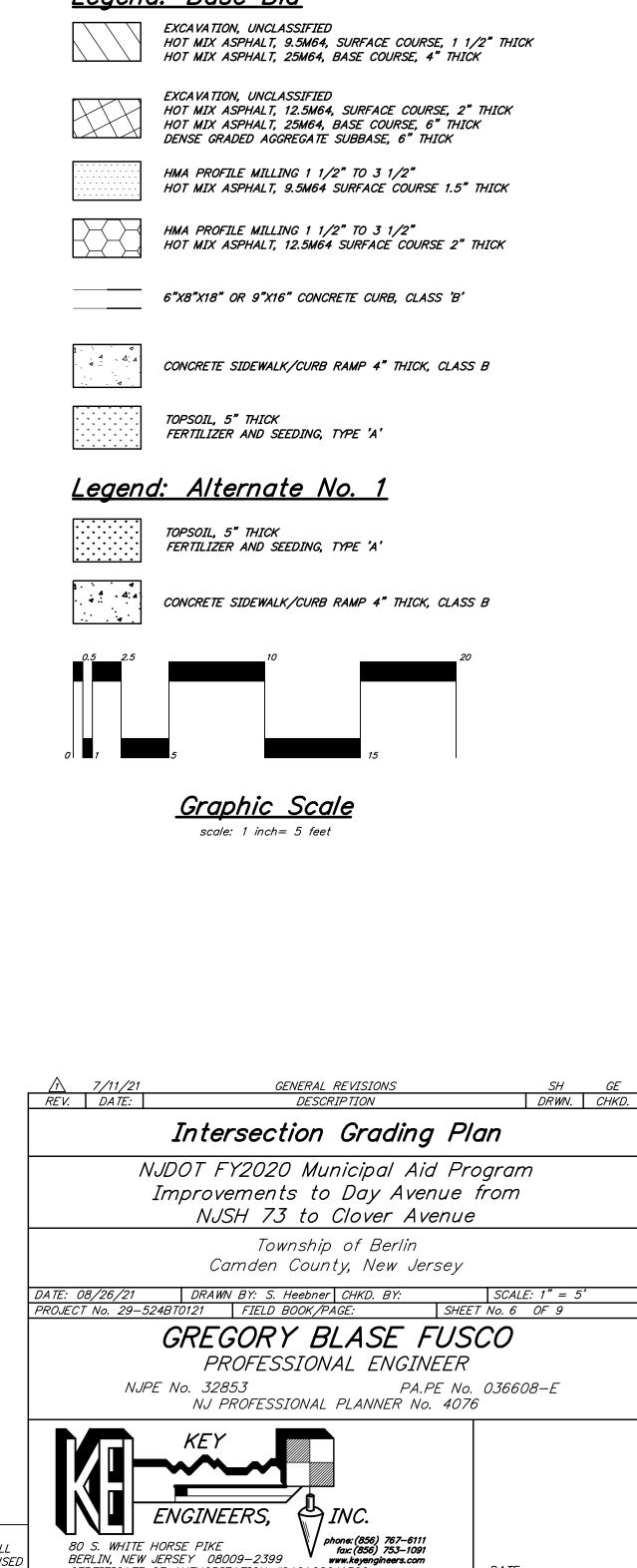


CONSTRUCTION DETAILS, SHALL GOVERN, EXCEPT FOR THOSE DETAILS CONTAINED HEREIN. PARTIALLY FUNDED THROUGH NEW JERSEY DEPARTMENT OF TRANSPORTATION MUNICIPAL AID PROGRAM FY2020.

ELEV. 49.98 PROFESSIONAL WHOSE NAME AND SIGNATURE APPEARS HEREON.

ALL CURB RAMPS CONSTRUCTED SHALL
MEET THE "PROPOSED ACCESSIBILITY
GUIDELINES FOR PEDESTRIAN FACILITIES
IN THE PUBLIC RIGHT-OF-WAY"
(P.R.O.W.A.G.), DATED JULY 26, 2011
THE CONTRACTOR SHALL UTILIZE THE EXISTING ROADWAY
AS A CONSTRUCTION ENTRANCE. THE ROADWAY SHALL BE
CLEANED AS NEEDED OR AS DIRECTED BY THE CAMDEN
COUNTY SOIL CONSERVATION DISTRICT AND THE
TOWNSHIP ENGINEER, TO ELIMINATE TRAFFIC HAZARDS,
DUST, ETC. (INCLUDED IN ROADWAY CLEANING LINE ITEM)
CRUSHED OR RECYCLED CONCRETE OR CRUSHED
OR RECYCLED ASPHALT WILL NOT BE ACCEPTED
AS A SUBSTITUTE TO DENSE GRADED
AGGREGATE FOR THIS PROJECT
(N.S.P.) INDICATES NO SPECIFIC PAYMENT WILL
BE MADE FOR THE ITEM. THE COST SHALL BE
INCLUDED IN VARIOUS ITEMS IN THE PROPOSAL
THE CONTRACTOR SHALL NOT ENTER ONTO ANY PRIVATE
PROPERTIES WITHOUT RECEIVING A "CONSENT TO ENTER
AGREEMENT" FROM THE PROPERTY OWNER
SHOULD POLICE TRAFFIC DIRECTORS BE REQUIRED,
THEIR SERVICES SHALL BE PAID FOR BY THE
TOWNSHIP, AT NO COST TO THE CONTRACTOR.
HOWEVER, THE CONTRACTOR MUST STILL PROVIDE,
AT HIS COST, MAINTENANCE AND PROTECTION OF
TRAFFIC IN ACCORDANCE WITH THE SPECIFICATIONS.
24-HOUR ROAD CLOSINGS WILL <u>NOT</u> BE PERMITTED.

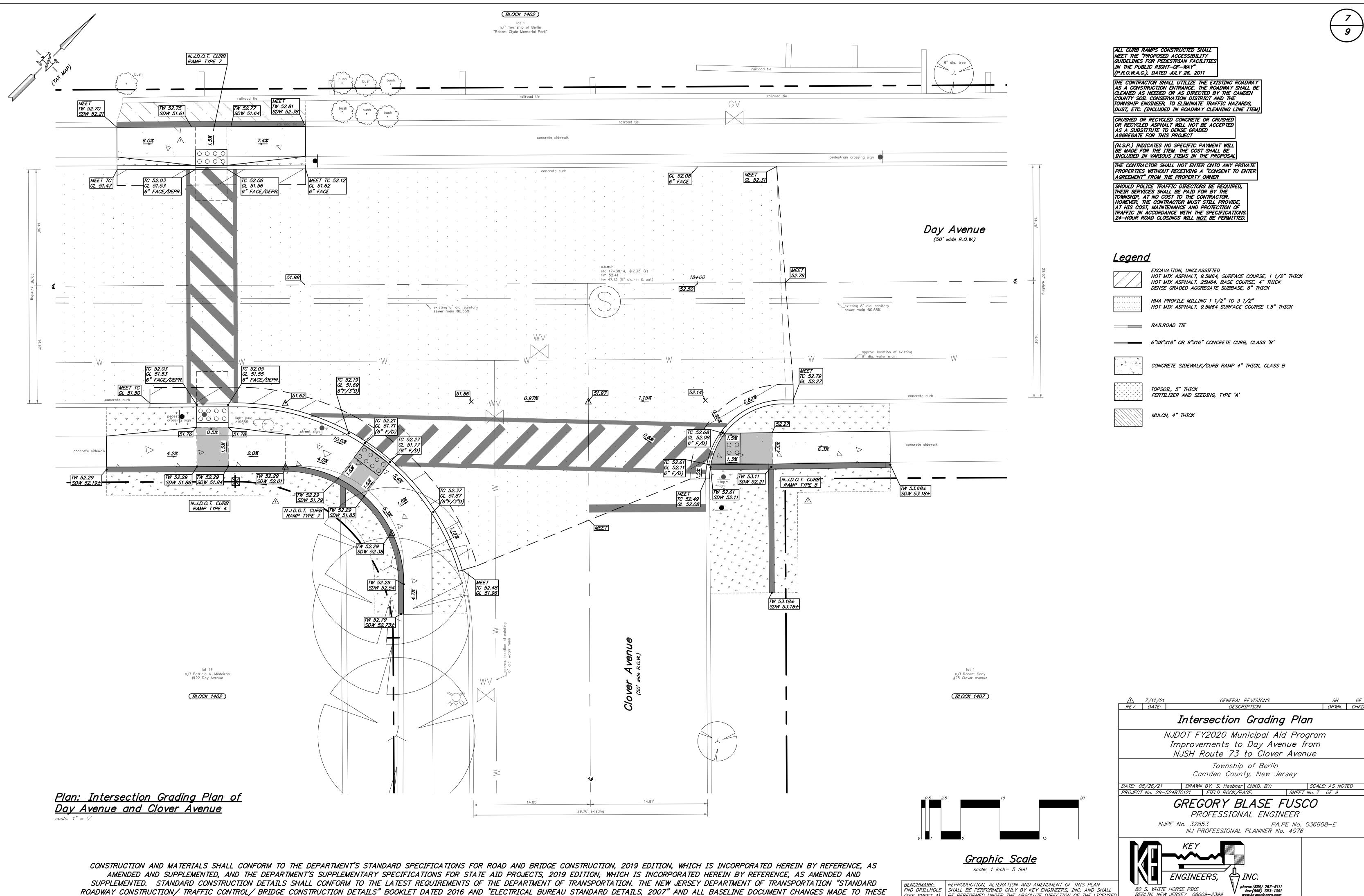
# Legend: Base Bid



BERLIN, NEW JERSEY 08009-2399

CERTIFICATE OF AUTHORIZATION #24GA28041300

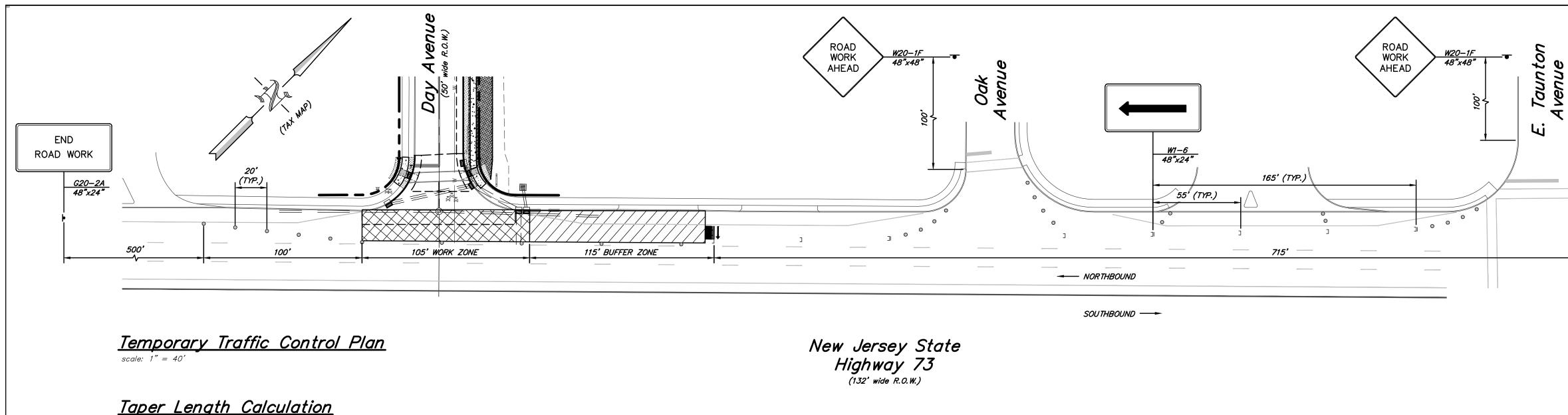
DA TE \_\_\_\_\_



CONSTRUCTION DETAILS, SHALL GOVERN, EXCEPT FOR THOSE DETAILS CONTAINED HEREIN. PARTIALLY FUNDED THROUGH NEW JERSEY DEPARTMENT OF TRANSPORTATION MUNICIPAL AID PROGRAM FY2020.

BENCHMARK:REPRFND DRILLHOLESHALL(SEE SHEET 3)BE PLELEV. 49.98PROFIL

BLOCK 1407)	A7/11/21GENERAL REVISIONSREV.DATE:DESCRIPTION	SH GE DRWN. CHKD.
	Intersection Grading Pla	n
	NJDOT FY2020 Municipal Aid Prog Improvements to Day Avenue fr NJSH Route 73 to Clover Avenu	rom
	Township of Berlin Camden County, New Jersey	
	DATE:08/26/21DRAWN BY:S. HeebnerCHKD. BY:PROJECT No.29-524BT0121FIELD BOOK/PAGE:SHEET	SCALE: AS NOTED No. 7 OF 9
	GREGORY BLASE FUSC PROFESSIONAL ENGINEER NJPE No. 32853 PA.PE No. C NJ PROFESSIONAL PLANNER No. 4076	
<u>Graphic Scale</u> scale: 1 inch= 5 feet	ENGINEERS, INC.	
RODUCTION, ALTERATION AND AMENDMENT OF THIS PLAN LL BE PERFORMED ONLY BY KEY ENGINEERS, INC. AND SHALL PERFORMED UNDER THE ABSOLUTE DIRECTION OF THE LICENSED FESSIONAL WHOSE NAME AND SIGNATURE APPEARS HEREON.	80 S. WHITE HORSE PIKE BERLIN, NEW JERSEY 08009-2399	DATE



(Merging Taper):

L = WSL = 13(55) = 715'

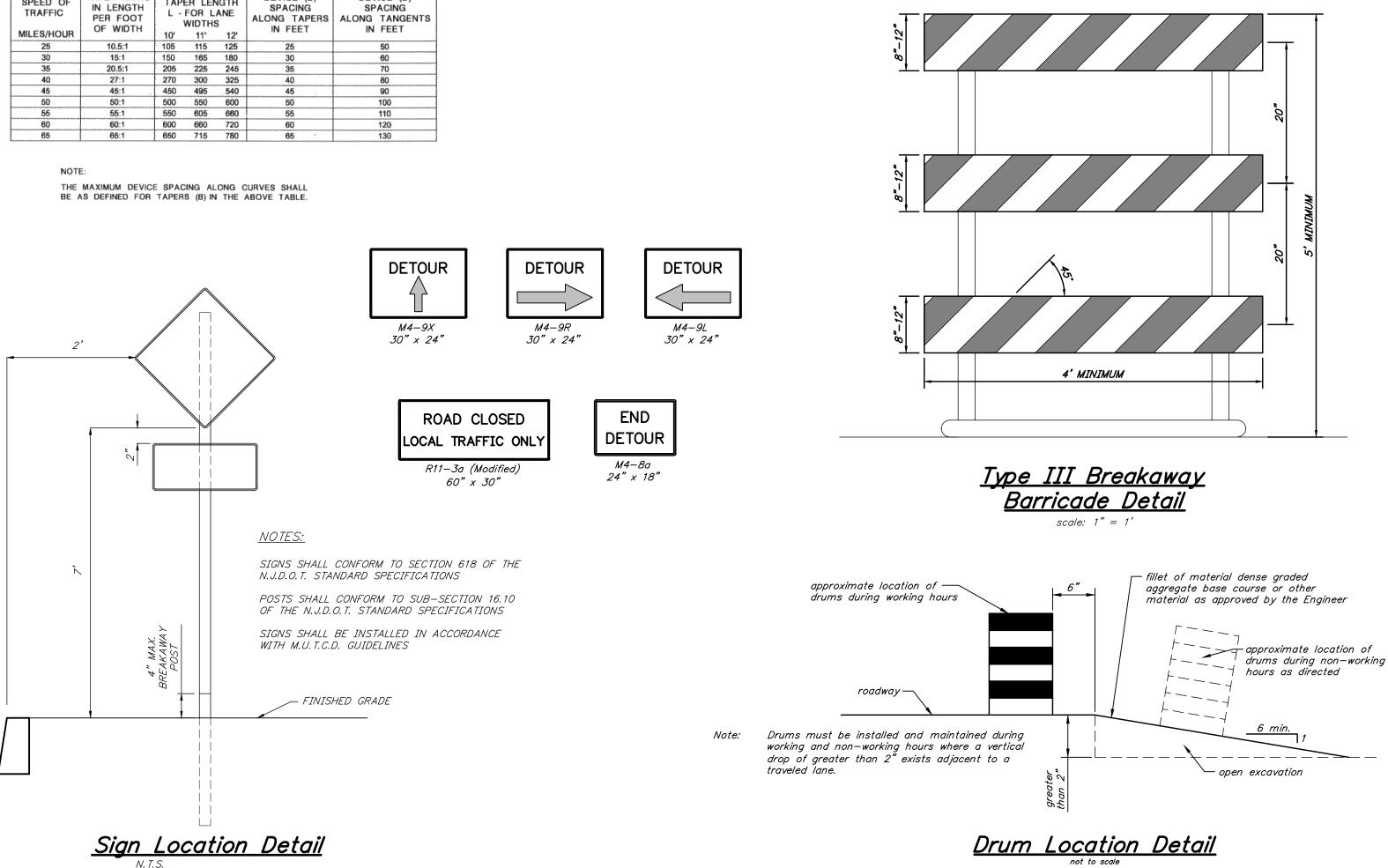
#### Legend:

- Traffic Control Truck With Mounted Crash Cushion And Arrow Board Showing Arrow Pattern (Left, Right)
- Breakaway Type 1 Barricades
- I Breakaway Type 1 Barricades With Direction Indicator Sign
- Construction Signs
- O Drum
- Buffer Zone
- Work Zone

REC	OMMENDED TAP FOR CHAN				SPACING	SPACIN	IMENDED G ALONG GENTS
REGULATORY APPROACH SPEED OF TRAFFIC MILES/HOUR	MINIMUM TAPER RATIO IN LENGTH PER FOOT OF WIDTH	TAP	MINIMUI ER LEI FOR L WIDTH: 11'	IGTH ANE	MAXIMUM DEVICE (B) SPACING ALONG TAPERS IN FEET	DEVI SPA ALONG	(IMUM CE (D) CING TANGENTS FEET
25	10.5:1	105	115	125	25		50
30	15:1	150	165	180	30		60
35	20.5:1	205	225	245	35		70
40	27:1	270	300	325	40		80
45	45:1	450	495	.540	45 .		90
50	50:1	500	550	600	50	1	00
55	55:1	550	605	660	55		10
60	60:1	600	660	720	60	1	20
65	65:1	650	715	780	65	4	30

## Construction Notes:

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF VEHICLE AND PEDESTRIAN TRAFFIC CIRCULATION THROUGHOUT THE DURATION OF THE PROJECT.
- 2. THE CONTRACTOR MUST CONTACT THE BERLIN TOWNSHIP POLICE DEPARTMENT FOR ALL REQUIREMENTS REGARDING THE USE OF TRAFFIC DIRECTORS FOR THIS PROJECT. SHOULD POLICE TRAFFIC DIRECTORS BE REQUIRED, THEY WILL BE PAID FOR BY THE TOWNSHIP.
- CONSTRUCTION, PART 6 OF THE MUTCD AND WORK ZONE TRAFFIC CONTROL. (U.S. DEPARTMENT OF TRANSPORTATION)
- 5. ALL SIGNS WHICH ARE REMOVED DURING CONSTRUCTION SHALL BE RESET EITHER TEMPORARILY OR PERMANENTLY PRIOR TO THE END OF EACH DAY.
- 6. TEMPORARY LINE STRIPING SHALL BE PROVIDED IN ORDER TO MAINTAIN TRAFFIC FLOW, SAFETY AND CONTROLLED PASSAGE OF TRAFFIC THROUGH THE WORK ZONE AND PROJECT, IF NECESSARY. 7. BARRELS OR BARRICADES, LIGHTING DEVICES, ETC. SHALL NOT BE PLACED IN FRONT OF DRIVEWAY
- ENTRANCES.
- 8. POSTED SPEED WITHIN THE PROJECT LIMITS IS 55 M.P.H.
- 9. ALL SIGNS SHALL BE ORANGE BACKGROUND WITH BLACK LETTERING AND EDGE LINES.



CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE DEPARTMENT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2019 EDITION, WHICH IS INCORPORATED HEREIN BY REFERENCE, AS AMENDED AND SUPPLEMENTED. AND THE DEPARTMENT'S SUPPLEMENTARY SPECIFICATIONS FOR STATE AID PROJECTS. 2019 EDITION, WHICH IS INCORPORATED HEREIN BY REFERENCE, AS AMENDED AND SUPPLEMENTED. STANDARD CONSTRUCTION DETAILS SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE DEPARTMENT OF TRANSPORTATION. THE NEW JERSEY DEPARTMENT OF TRANSPORTATION "STANDARD ROADWAY CONSTRUCTION/ TRAFFIC CONTROL/ BRIDGE CONSTRUCTION DETAILS" BOOKLET DATED 2016 AND "ELECTRICAL BUREAU STANDARD DETAILS, 2007" AND ALL BASELINE DOCUMENT CHANGES MADE TO THESE CONSTRUCTION DETAILS, SHALL GOVERN, EXCEPT FOR THOSE DETAILS CONTAINED HEREIN. PARTIALLY FUNDED THROUGH NEW JERSEY DEPARTMENT OF TRANSPORTATION MUNICIPAL AID PROGRAM FY2020.

- 3. BARRICADES, LIGHTING DEVICES AND OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE IN ACCORDANCE WITH AND SHALL CONFORM TO SECTION 110, NEW JERSEY DEPARTMENT OF TRANSPORTATION TRAFFIC CONTROL STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE
- 4. TRAFFIC/PEDESTRIAN CONTROL DEVICES AND EQUIPMENT SHALL BE IN PLACE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, COUNTY AND MUNICIPAL REGULATIONS.

#### Base Bid: Improvements to Day Avenue FROM N.J.S.H. 73 TO CLOVER AVENUE

(PARTIALLY FUNDED THROUGH THE N.J.D.O.T. MUNICIPAL AID, FY2020)

1. TERMS

<u>Payment Items</u>

ITEM NUMBER	DESCRIPTION	UNIT MEASURED	QUANTI
30	TRAFFIC DRUM	UNIT	26
31	TYPE I BREAKAWAY BARRICADE	UNIT	11
32	TYPE III BREAKAWAY BARRICADE	UNIT	8
33	CONSTRUCTION SIGNS	SF	210
34	TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSION AND FLASHING ARROW BOARD 2' X 4'	UNIT	1
35	STATE POLICE TRAFFIC DIRECTOR	МН	24

TRAFFIC IMPACT NOTICES AND CHANGES

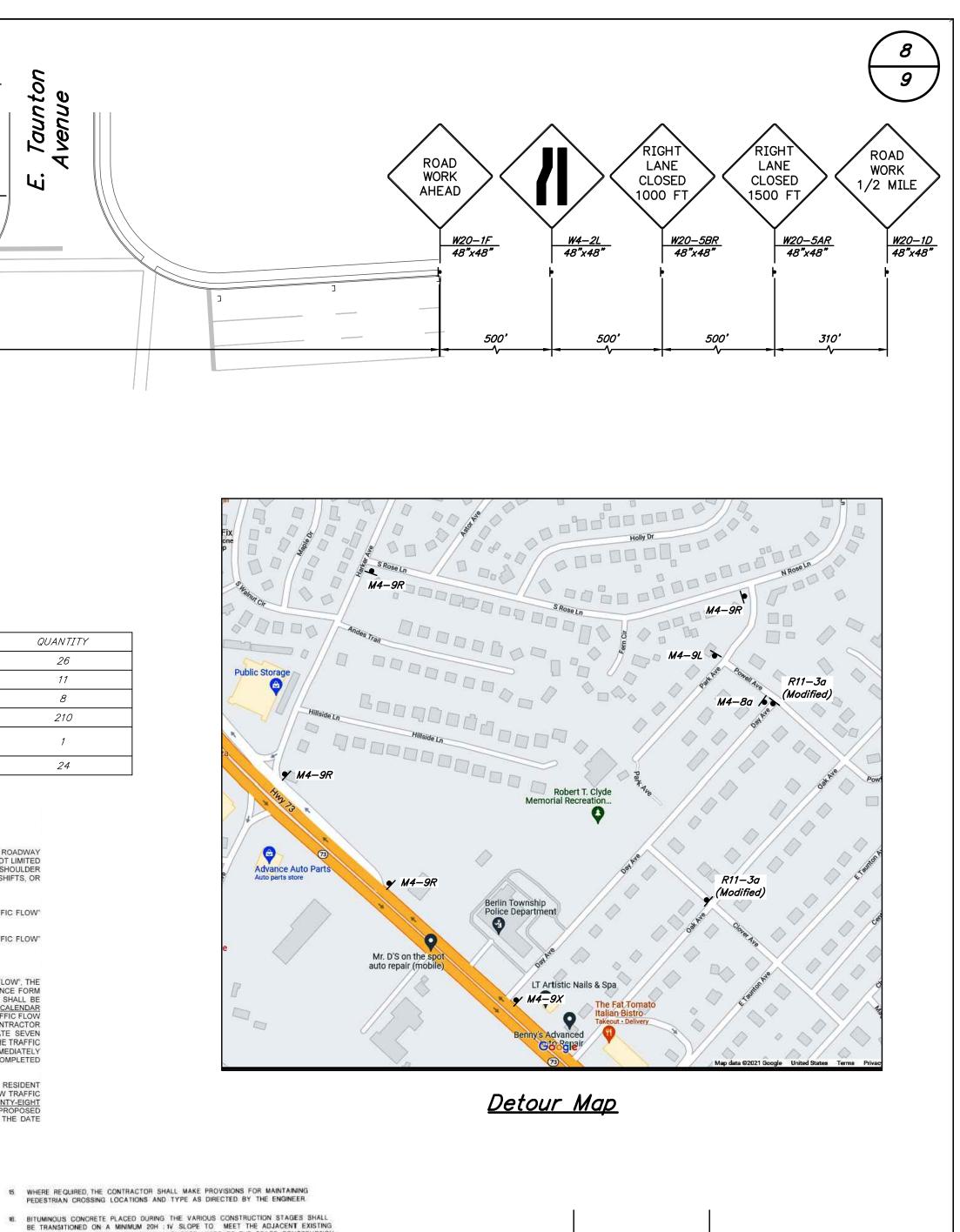
- When the following terms are used, the intent and meaning shall be as follows IMPACTS TO NORMAL TRAFFIC FLOW - WORK THAT REQUIRES A PORTION OF THE PAVED ROADWAY BEING BLOCKED OR CLOSED WITH SAFETY DEVICES OR VEHICLES, INCLUDING, BUT NOT LIMITED TO, FULL OR PARTIAL LANE CLOSURES, FULL OR PARTIAL RAMP CLOSURES, SHOULDER CLOSURES, MOVING OPERATIONS SUCH AS TRAFFIC STRIPING OR SWEEPING, LANE SHIFTS, OR ALTERNATING TRAFFIC. THIS APPLIES EVEN WHEN DETOURS ARE PROVIDED.
- TEMPORARY LANE CLOSURES WORK DESCRIBED UNDER "IMPACTS TO NORMAL TRAFFIC FLOW" WHICH IS ROUTINELY SET UP AND REMOVED ON A DAILY BASIS
- PERMANENT LANE CLOSURES WORK DESCRIBED UNDER "IMPACTS TO NORMAL TRAFFIC FLOW" WHICH REMAINS IN PLACE CONTINUOUSLY FOR 24 HOURS OR MORE. 2. ADVANCE NOTICES
- FOR THE INITIAL START OF WORK THAT REQUIRES "IMPACTS TO NORMAL TRAFFIC FLOW". THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER IN WRITING, ON THE ADVANCE FORM O-103 PROVIDED BY THE DEPARTMENT, OF THE PROPOSED DATE. THE NOTICE SHALL BE SUBMITTED AT LEAST <u>TWENTY-EIGHT CALENDAR DAYS, BUT NOT MORE THAN SIXTY CALENDAR</u> <u>DAYS,</u> BEFORE THE PROPOSED DATE. START OF WORK THAT IMPACTS NORMAL TRAFFIC FLOW WILL NOT BE PERMITTED PRIOR TO THE DATE STATED IN THE NOTICE. THE CONTRACTOR SHALL CONFIRM. IN WRITING TO THE RESIDENT ENGINEER THE PROPOSED DATE SEVEN (AND/OR FOURTEEN) CALENDAR DAYS BEFORE STARTING THE ESTABLISHMENT OF THE TRAFFIC CONTROL MEASURES FOR THE TRAFFIC IMPACT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE RESIDENT ENGINEER IF THE PROPOSED ESTABLISHMENT CAN NOT BE COMPLETED ON THE PROPOSED DATE
- FOR A "PERMANENT LANE CLOSURE", THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER IN WRITING, ON ADVANCE FORM TO-103, OF THE PROPOSED DATE A NEW TRAFFIC PATTERN WILL BE ESTABLISHED. THE NOTICE SHALL BE SUBMITTED AT LEAST <u>TWENTY-EIGHT</u> <u>CALENDAR DAYS, BUT NOT MORE THAN SIXTY CALENDAR DAYS</u>, IN ADVANCE OF THE PROPOSED DATE. START OF A NEW TRAFFIC PATTERN WILL NOT BE PERMITTED PRIOR TO THE DATE

#### GENERAL NOTES:

- ADVANCE WARNING SIGNS, DISTANCES, AND TAPER LENGTHS MAY BE EXTENDED, AT DIRECTION OF THE ENGINEER, TO ADJUST FOR REDUCED VISIBILITY DUE TO HORIZONTAL AND VERTICAL CURVATURE OF THE ROADWAY.
- 2. THE APPROXIMATE LOCATIONS OF THE ILLUMINATED FLASHING ARROW BOARDS ARE SHOWN ON THE TRAFFIC CONTROL PLANS THESE LOCATIONS MAY BE MODIFIED TO AD MIST FOR VISIBILITY DUE TO HORIZONTAL OR VERTICAL CURVATURE OF THE ROADWAY OF TO POSITION AT A SAFER LOCATION ILLUMINATED FLASHING ARROW BOARDS ARE TO BE USED FOR TEMPORARY LANE CLOSINGS AND AT LOCATIONS SHOWN ON THE TRAFFIC CONTROL PLANS.
- 3. PRIOR TO ANY ROAD WORK DURING STAGING WORK TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE IN PLACE AND COMPLETED DURING NON-PEAK HOURS.
- 4. RAMPS AND/OR SIDE STREETS ENTERING THE ROADWAY AFTER THE FIRST ADVANCE WARNING SIGN SHALL BE PROVIDED WITH AT LEAST ONE W20-IF SIGN (ROAD WORK AHEAD) AS A MINIMUM.
- ALL EXISTING ROAD SIGNS, PAVEMENT MARKINGS AND/OR PLOWABLE PAVEMENT REFLECTORS WHICH CONFLICT WITH THE PROPOSED TRAFFIC CONTROL PLAN SHALL BE COVERED, REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER.
- 6. CONFLICTING OR NON-OPERATING SIGNAL INDICATIONS ON EITHER THE EXISTING. EMPORARY, OR PROPOSED TRAFFIC SIGNAL SYSTEMS SHALL BE BAGGED OR COVERED
- MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES -"STANDARDS AND GUIDES FOR TRAFFIC CONTROL FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE UTILITY, AND INCIDENT MANAGEMENT OPERATIONS", UNLESS OTHERWISE NOTED IN THE PLANS AND SPECIFICATIONS AND SHALL BE APPROVED BY THE ENGINEER.
- 8 CONSTRUCTION SIGN W99-2 (GIVE US A BRAKE) SHOULD BE LOCATED 200 FEET IN ADVANCE OF PROJECT LIMITS.
- 9 A W1-6 (ARROW) SIGN MOUNTED ON A BREAKAWAY BARRICADE AND CENTERED ON THE CLOSED WIDTH SHALL BE LOCATED 100 FEET BEYOND EACH INTERSECTION OR MAIN ACCESS POINT WITHIN THE AREA OF A LANE OR SHOULDER CLOSURE.
- 10 CONSTRUCTION SIGNS WE-9A (SYMBOL FOR UNEVEN PAVEMENT) AND WE-14A ROOVED PAVEMENT) SHALL BE USED WHEN SUCH PAVEMENT CONDITIONS EXIST THE PLACEMENT OF THESE SIGNS SHALL BE AS DIRECTED BY THE ENGINEER.
- 11. MOVING WORK AREAS IN A PERMANENT LANE CLOSURE REQUIRE A TRAILER MOUNTED FLASHING ARROW TO REMAIN AT THE END OF THE TAPER THE THUCK MOUNTED CRASH CUSHION SHALL MOVE WITH THE WORK AREAS TO KEEP A 75 FOOT MINIMUM AND A 175 FOOT MAXIMUM BUFFER IN ADVANCE OF EACH WORK AREA.
- 12. THE CONTRACTOR SHALL SUBMIT A PLAN FOR THE SAFE ACCESS OF CONSTRUCTION VEHICLES THROUGHOUT THE WORK SITE WHERE SPACE CONSTRAINTS PREVENT THE USE OF LANE CLOSURES THE PLAN SHALL BE SUBMITTED TO THE ENGINEER IN ACCORDANCE WITH SECTION 617 OF THE STANDARD SPECIFICATIONS
- 13. TRAFFIC SAFETY SERVICES SHALL BE USED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL, SECTION 617.
- M. ALL EXCAVATED AREAS WITHIN OR ADJACENT TO THE ROADWAY SHALL BE BACKFILLED ALL PLACED ON A MINIMUM OF IN SLOPE PROR TO THE END OF EACH WORK DAY. OTHER EXCAVATED AREAS WITHIN THE CLEAR ZONE ARE TO BE EITHER BACKFILLED OR A PRECAST CONCRETE CURB CONSTRUCTION BARRIER SET TEMPOHARILY IN PLACE TO SHIELD VEHICULAR AND PEDESTRIAN TRAFFIC (SEE ESCAPE RAMP DETAIL TG-2).

GRADE AT THE LONGITUDINAL AND TRANSVERSE LIMITS OF THE STAGE CONSTRUCTION AREAS UNLESS OTHERWISE NOTED ON THE STAGE CONSTRUCTION PLANS. THE PLACEMENT AND OR RELOCATION OF PRECAST CONCRETE CURB, CONSTRUCTION BARRIER SHALL BE DONE DURING APPROVED OFF PEAK HOURS WHEN TRAFFIC MAY BE

- THE CLOSURES.
- THE ENGINEER
- OF THEIR DRIVEWAYS.



REDUCED TO ONE LANE IN EACH DIRECTION. CONSTRUCTION ZONE SPEED LIMIT WILL BE DETERMINED BY THE TRAFFIC SIGNAL AND SAFETY NGINEERING REGIONAL TRAFFIC ENGINEER - WORKZONE AT THE TIME OF OR DURING CONSTRUCTION, AS REQUESTED BY THE RESIDENT ENGINEER.

19. THE SPEED LIMIT, R2-1 (BLACK ON WHITE) SIGN SHALL BE LOCATED THROUGH WORK AREAS AS DIRECTED BY THE TRAFFIC SIGNAL AND SAFETY ENGINEERING REGIONAL TRAFFIC ENGINEER - WORKZONE.

20. THE REDUCED SPEED AHEAD SIGN, R2-5A(S) (BLACK ON WHITE) SHALL BE LOCATED IN ADVANCE OF SPEED LIMIT R2-1 SIGNS WHICH REDUCE THE NORMAL POSTED SPEED LIMIT THROUGH THE CONSTRUCTION ZONE.

TRAFFIC FINES DOUBLED IN WORK AREA R(NJ)5-17(8), 4 FEET BY 2.5 FEET SIGN SHALL BE LOCATED 500 FEET AFTER THE FIRST ADVANCE WARNING SIGN, (W20 SERIES) AT EACH WORK AREA LOCATED WITHIN URBAN AREAS. THIS SIGN SHALL ALSO BE USED IN PROJECTS REQUIRING MOVING OPERATIONS IN WHICH CASE THE SIGN SHALL BE MOUNTED ON A SLOW MOVING CONSTRUCTION VEHICLE.

22. THE FINAL BITUMINOUS CONCRETE SURFACE PAVEMENT SHOULD NOT BE CONSTRUCTED UNTIL THE FINAL STAGE OF THE PROJECT MANHOLES AND INLETS SHALL BE SET TO FINISHED GRADE AND TEMPORARY PAVEMENT RAMPS ARE TO BE CONSTRUCTED AROUND THEM WITH A MINIMUM 20H IV SLOPE IN ALL DIRECTIONS USING HOT MIX ASPHALT PAVEMENT THIS TEMPORARY MATERIAL WILL BE REMOVED IMMEDIATELY PRIOR TO PLACING THE SURFACE COURSE.

TRAFFIC CONTROL DEVICES FOR LANE CLOSURES INCLUDING SIGNS, CONES, BARRICADES, ETC. SHALL BE PLACED AS SHOWN ON PLANS SIGNS SHALL NOT BE PLACED WITHOUT CTUAL LANE CLOSURES AND SHALL BE IMMEDIATELY REMOVED UPON REMOVAL OF 24. CONES MAY BE SUBSTITUTED FOR DRUMS AND INSTALLED UPON THE APPROVAL OF

25. CONTRACTOR SHALL MAINTAIN DRIVEWAY ACCESS TO RESIDENCES AND BUSINESSES

26. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND ANY OWNER 7 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION AND PRIOR TO CLOSURE OF ONE ALL WORK REQUIRING CLOSURE OF ROADWAY WITHOUT A DETOUR SHALL BE ALLOWED

DURING 12 AM-4 AM USING 15 MINUTES CLOSURE INTERVALS (NOT EXCEEDING MORE THAN 3 PER HOUR) AND TRAFFIC IS ALLOWED TO FLOW FREELY BETWEEN CLOSURES. 28. WHEN TEMPORARY TRAFFIC SIGNALS ARE NOT BEING USED FOR STAGING OF AN EXISTING SIGNALIZED INTERSECTION POLICE TRAFFIC DIRECTORS SHALL BE USED EXCLUSIVELY

29. THE CONTRACTOR WILL REQUIRE THE APPROVAL OF THE ENGINEER FOR THE LOCATIONS OF STOCKPILE & STORAGE AREAS. ANY UNSOUND PATCHES OR WEAK AREAS OF PAVEMENT SHOULD BE REMOVED AND

REPLACED WITH SUPER PAVE HOT MIX ASPHALT AFTER MILLING AND PRIOR TO RESURFACING. EXCAVATE AND REPLACE ANY UNSTABLE SUBGRADE MATERIAL WITH SUBBASE, DESIGNATION 1-3 OR BORROW EXCAVATION SELECT MATERIAL (1-13). 32. SEE SHEETS TC-2 AND TC-3 FOR ADDITIONAL NOTES.

R11–3a (MODIFIED) - TYPE III BARRICADE (TYP. FOR 4) هم مع ملم مم مم TRAFFIC CONTROL DIRECTOR (FLAGGER) IF NEEDED <u>Road/Intersection Closure Detail</u> N. T. S. GENERAL REVISIONS DRWN. CHKD. DESCRIPTION Temporary Traffic Control Plan NJDOT FY2020 Municipal Aid Program Improvements to Day Avenue from NJSH 73 to Clover Avenue Township of Berlin Camden County, New Jersey DATE: 08/26/21 DRAWN BY: S. Heebner CHKD. BY: SCALE: AS NOTED PROJECT No. 29–524BT0121 FIELD BOOK/PAGE: SHEET No. 8 OF 9 GREGORY BLASE FUSCO PROFESSIONAL ENGINEER NJPE No. 32853 PA.PE No. 036608-E NJ PROFESSIONAL PLANNER No. 4076 INC. | phone:(856) 767-6111 fax:(856) 753-1091 80 S. WHITE HORSE PIKE BERLIN, NEW JERSEY 08009-2399 www.keyengineers.com CERTIFICATE OF AUTHORIZATION #24GA28041300 DA TE \_\_\_\_

