2022 CDBG ROAD RECONSTRUCTION CONTRACT #2022-71

TOWNSHIP OF OLD BRIDGE MIDDLESEX COUNTY, NJ



MAYOR OWEN HENRY

COUNCIL

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DEBBIE WALKER, COUNCIL VICE PRESIDENT
DR. ANITA GREENBERG-BELLI
JILL DECARO
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KEVIN GARCIA
JOHN E. MURPHY, III
TONY PASKITTI

BUSINESS ADMINISTRATOR

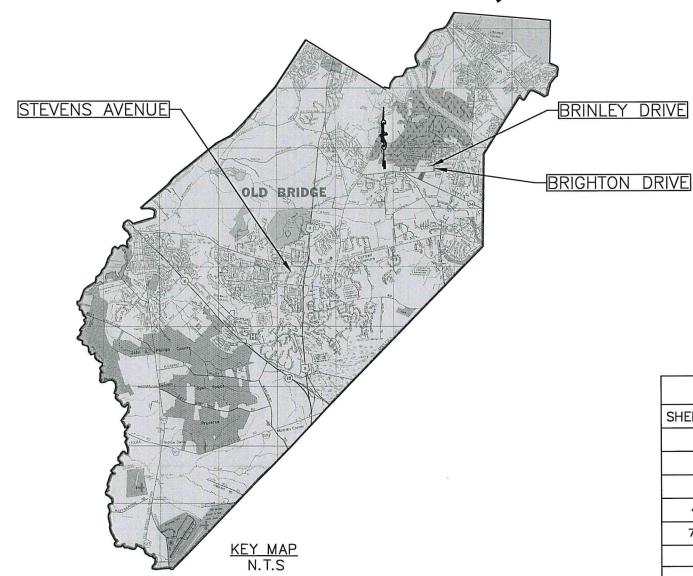
HIMANSHU S. SHAH, BUSINESS ADMINISTRATOR

TOWNSHIP ENGINEER

NICOLE S. SHAPIRO, PE, PP, CME

TOWNSHIP CLERK

KATHRYN HUTCHINSON, RMC



THE 2019 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE NEW JERSEY DEPARTMENT OF TRANSPORTATION AS AMENDED BY THE SUPPLEMENTARY SPECIFICATIONS TO GOVERN.

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TOWNSHIP OF OLD BRIDGE DEPARTMENT OF ENGINEERING

One Old Bridge Plaza
Old Bridge, New Jersey 08857
Tel. 732-721-5600 Fax 732-607-7978

NICOLE S. SHAPIRO
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE No. 24GE04622100

2022 CDBG ROAD RECONSTRUCTION CONTRACT #2022-71

CONTRACT No: 2022-71 SHEET: 1 OF 12

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| | 2022 CBDG ROAD RECONSTRUCTION ESTIMATE AND | DIST | RIBUTION | OF QU | ANTITIE | S | |
|-------------|---|--------|-------------------|---|--|---|-----------------------|
| ITEM NO. | DESCRIPTION | UNIT | TOTAL QUANTITY | Brinley Drive Whole Street (Including Brighton Drive) Sheet 4 of 12 Ward 1 | Brinley Drive Whole Street (Including Brighton Drive) Sheet 5 of 12 Ward 1 | Stevens Avenue Part - Bushnell Road to Rittner Lane Sheet 6 of 12 Ward 4 | IF AND WHERE DIRECTED |
| 1 | MAINTENANCE & PROTECTION OF TRAFFIC | L.S. | 1 | | | | |
| 2 | 6" x 8" x 18" CONCRETE VERTICAL CURB | L.F. | 60 | 4 | | 32 | 24 |
| 3 | GRANITE BLOCK CURB | L.F. | 30 | 6 | | | 24 |
| 4 | CONCRETE SIDEWALK, 4" THICK | S.Y. | 50 | 15 | | 29 | 6 |
| 5 | CONCRETE SIDEWALK, REINFORCED, 6" THICK | S.Y. | 5 | | | | 5 |
| 6 | DETECTABLE WARNING SURFACE | S.Y. | 3 | 1 | | 2 | |
| 7 | HMA MILLING, 2" MINIMUM | S.Y. | 6,865 | 3,205 | 1,800 | 1,860 | |
| 8 | TACK COAT | Gallon | 343 | 160 | 90 | 93 | |
| 9 | HOT MIX ASPHALT 9.5M64 SURFACE COURSE, 2" THICK | Ton | 930 | 420 | 240 | 240 | 30 |
| 10 | HOT MIX ASPHALT 19M64 BASE COURSE | Ton | 40 | | | | 40 |
| 11 | DENSE GRADED AGGREGATE BASE COURSE | Ton | 40 | | | | 40 |
| 12 | SEALING OF CRACKS & JOINTS IN HMA PAVEMENT | L.F. | 250 | | | | 250 |
| 13 | RESET MANHOLE CASTING | Unit | 1 | | | | 1 |
| 14 | RESET INLET CASTING | Unit | 1 | | | | 1 |
| 15 | BICYCLE SAFE GRATE | Unit | 8 | 7 | 1 | | |
| 16 | CURB PIECE | Unit | 8 | 7 | 1 | | |
| 17 | TRAFFIC STRIPES, THERMOPLASTIC, 6" | L.F. | 87 | | | 87 | н |
| 18 | TRAFFIC STRIPES, THERMOPLASTIC, 24" | L.F. | 187 | 31 | 30 | 126 | |
| 19 | REGULATORY AND WARNING SIGN | S.F | 22 | 11 | 11 | | |
| 20 | TREE REMOVAL, OVER 6" TO 12" DIAMETER | Unit | 1 | 1 | | | |

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2022 CDBG ROAD RECONSTRUCTION CONTRACT #2022-71

ESTIMATE AND DISTRIBUTION OF QUANTITIES

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2022-71

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GENERAL CONSTRUCTION NOTES:

- 1. THE CONTRACTOR SHALL NOTIFY THE OLD BRIDGE TOWNSHIP ENGINEERING AND POLICE DEPARTMENTS 72 HOURS PRIOR TO THE START OF ANY WORK.
- 2. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH THE TOWNSHIP ENGINEERING DEPARTMENT. SCHEDULING AND REVISED SCHEDULES ARE REQUIRED TO BE SUBMITTED IN WRITTEN FORM.
- 3. THE PROJECT SHALL BE COMPLETED WITHIN 45 DAYS OF THE NOTICE TO PROCEED.
- 4. MILLED AREAS SHALL NOT BE LEFT UNPAVED FOR LONGER THAN 48 HOURS, UNLESS APPROVED BY THE ENGINEER. IF MILLED AREAS ARE LEFT UNPAVED FOR MORE THAN 48 HOURS, TEMPORARY ASPHALT RAMPS EXTENDING AT LEAST 2 FEET FROM THE EDGE OF MANHOLE COVERS AND INLET GRATES SHALL BE PROVIDED. NO SEPARATE PAYMENT SHALL BE MADE FOR THE RAMPS; THE COST THEREOF SHALL BE INCLUDED IN THE MILLING ITEM. ALL LOOSE MATERIAL SHALL BE REMOVED, AND THE MILLED AREAS SHALL BE SWEPT PRIOR TO RESURFACING.
- 5. CONSTRUCTION ACTIVITIES SHALL ONLY BE ALLOWED BETWEEN THE HOURS OF 7:00 AM AND 6:00 PM AS PER OLD BRIDGE TOWNSHIP NOISE ORDINANCE. CONSTRUCTION IS ONLY PERMITTED MONDAY THROUGH SATURDAY. NO WORK SHALL COMMENCE ON SUNDAY, OR A HOLIDAY RECOGNIZED BY THE TOWNSHIP.
- 6. THE CONTRACTOR SHALL MAKE PROVISIONS FOR MATERIAL AND EQUIPMENT STORAGE. THE CONTRACTOR SHALL COORDINATE THE STORAGE OF MATERIAL AND EQUIPMENT WITH THE ENGINEER AND POLICE DEPARTMENT. THE CONTRACTOR SHALL NOT PLACE EQUIPMENT, TOOLS, MATERIALS, OR OTHER CONSTRUCTION RELATED ITEMS ON PRIVATE PROPERTY. ALL COSTS FOR MATERIAL AND EQUIPMENT STORAGE SHALL BE INCLUDED IN THE VARIOUS BID ITEMS OF THIS CONTRACT.
- 7. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE M.U.T.C.D. AND MUNICIPAL TRAFFIC ORDINANCES. AT A MINIMUM, THE CONTRACTOR SHALL HAVE ALL ROAD CLOSED SIGNS WITH BARRICADES AND BARRELS AT THE PROJECT LIMITS. SEE PROJECT SPECIFICATIONS FOR ALL OTHER REQUIREMENTS OF MAINTENANCE AND PROTECTION OF TRAFFIC. THE FOLLOWING SHOULD BE NOTED BY THE CONTRACTOR:
- 7.1. FLAGGERS ARE REQUIRED FOR ALL WORK LOCATED AT ROADWAY INTERSECTIONS. THE FLAGGER SHALL BE EQUIPPED WITH A STOP/SLOW PADDLE. FLAGS ARE NOT PERMITTED.
- 7.2. ENGINEER MAY HALT CONSTRUCTION AT ANY TIME IF THE CONTRACTOR FAILS TO PROVIDE ADEQUATE AND SAFE TEMPORARY TRAFFIC CONTROL.
- 8. LOCAL RESIDENT ACCESS AS WELL AS ACCESS FOR SCHOOL BUSES, EMERGENCY VEHICLES, GARBAGE TRUCKS, AND MAIL CARRIERS SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF THEIR WORK. OLD BRIDGE TOWNSHIP WILL NOT ACCEPT OR MAKE PAYMENT FOR DAMAGED, VANDALIZED, OR POOR QUALITY WORK. ALL WORK MUST BE CONSTRUCTED AND FINISHED TO THE SATISFACTION OF THE ENGINEER.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL AREAS DAMAGED, DISTURBED, OR AFFECTED BY CONSTRUCTION. ALL COSTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE VARIOUS BID ITEMS OF THIS CONTRACT. RESTORATION SHALL BE DONE IMMEDIATELY OR AT THE END OF THE PROJECT, AS DIRECTED BY THE ENGINEER. THIS INCLUDES BUT IS NOT LIMITED TO:
- 10.1. RESETTING, RELOCATING, REPAIRING, OR REPLACING ALL CURB, PAVEMENT, MAILBOXES, LAMP POSTS, DRIVEWAYS, UTILITIES, SPRINKLERS, INVISIBLE DOG FENCES, AND ANY OTHER SURROUNDING AREAS
- 10.2. RESETTING ALL MAILBOXES TO ENSURE THE FACE OF THE MAILBOX IS SIX INCHES BEHIND THE EDGE OF PAVEMENT.
- 10.3. TOPSOILING, SEEDING, FERTILIZING, AND MULCHING LAWN AREAS.
- 10.4. SITE RESTORATION OF ALL OTHER AREAS IN KIND.
- 10.5. COORDINATING WITH PROPERTY OWNERS AS NECESSARY.
- 11. ALL MATERIALS AND CONSTRUCTION FOR THE IMPROVEMENTS SHOWN SHALL BE IN ACCORDANCE WITH THE NEW JERSEY DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2019", AS AMENDED.

- 12. THE CONTRACTOR SHALL REVIEW ALL SITES AND EXAMINE ALL PLAN SHEETS AND PROJECT SPECIFICATIONS PRIOR TO BIDDING, TO FAMILIARIZE THEMSELVES COMPLETELY WITH THE ACTUAL WORKING CONDITIONS, AND TO ENSURE A COMPLETE UNDERSTANDING OF ALL FACTORS TO BE CONSIDERED IN ACCOMPLISHING THE WORK AS DESCRIBED IN THE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY THE TOWNSHIP AND ENGINEER IMMEDIATELY OF ANY ERRORS OR DISCREPANCIES.
- 13. THE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES ON THIS PROJECT. THE CONTRACTOR SHALL COMPLY WITH FREEHOLD SOIL CONSERVATION DISTRICT STANDARDS. IF NEEDED, ADDITIONAL SOIL EROSION AND SEDIMENT CONTROL ITEMS SHALL BE INSTALLED WHERE DIRECTED BY THE ENGINEER.
- 14. THE CONTRACTOR SHALL MEET WITH AN OLD BRIDGE TOWNSHIP REPRESENTATIVE FOR A PRE-CONSTRUCTION MEETING AND IN-FIELD MEETING TO MARK-OUT ALL LIMITS OF PAVING (L.O.P.) PRIOR TO THE START OF CONSTRUCTION.
- 5. NO SEPARATE PAYMENT SHALL BE MADE FOR SAW CUTTING OF PAVEMENT.
- 16. MIDDLESEX COUNTY ROAD OPENING PERMIT IS REQUIRED TO BE OBTAINED BY THE CONTRACTOR WHILE WORKING WITHIN THE RIGHT OF WAY OF COUNTY ROADS. THE CONTRACTOR WILL SUBMIT AND PAY FOR THE ROAD OPENING PERMIT FEE. THE COST OF OBTAINING THE ROAD OPENING PERMIT SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE BID.

LEGEND (EXISTING)

- ☆ LIGHT POLE
- **■** INLET
- **D** STORM MANHOLE

- S SANITARY MANHOLE
- HYDRANT
- → CULVERT/HEADWALL

- O UTILITY POLE
- WATER VALVE A SIGN & POST

LEGEND (PROPOSED):

MILLING

■ CONCRETE DRIVEWAY, REINFORCED, 6" THICK

BASE REPAIR

■ CONCRETE SIDEWALK, REINFORCED, 6" THICK

☐ CONCRETE SIDEWALK, 4" THICK

☑ HMA DRIVEWAY, 3" THICK

INLET

☑ TOPSOIL, SEED, FERTILIZE, & STRAW MULCH

SIGN & BREAKAWAY POST

SURVEY NOTES:

1. EXISTING ROADS, CURBING, SEWERS, DRIVEWAYS, SIDEWALK, AND OTHER EXISTING SITE FEATURES WERE TAKEN FROM TOWNSHIP AERIAL IMAGES, TOPOGRAPHICAL MAPS, TAX MAPS, AND FIELD INSPECTIONS. NOT ALL EXISTING SITE FEATURES ARE SHOWN. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL SITE FEATURES IN THE EVENT OF A DISCREPANCY AT NO ADDITIONAL COST TO THE TOWNSHIP.

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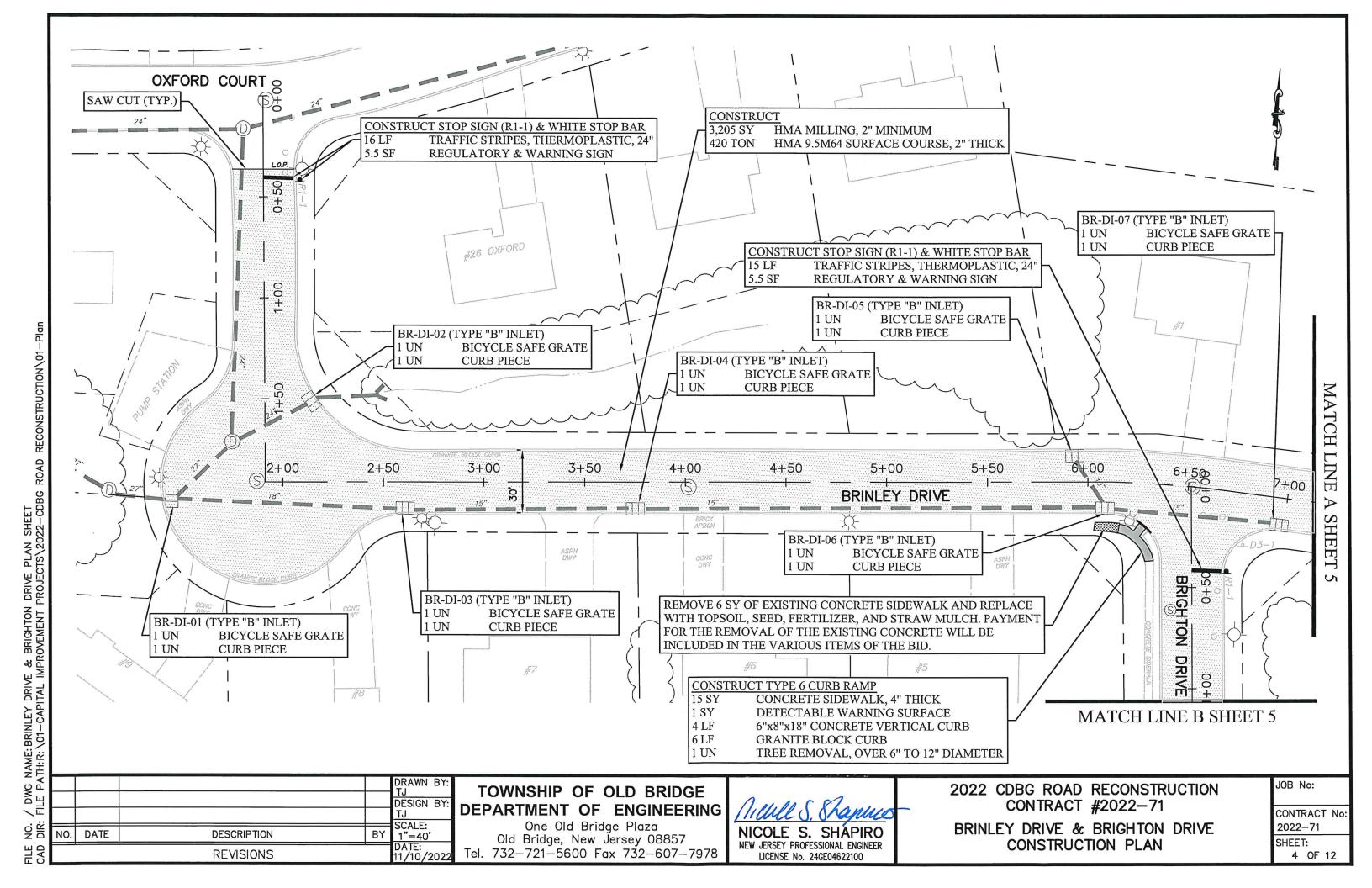
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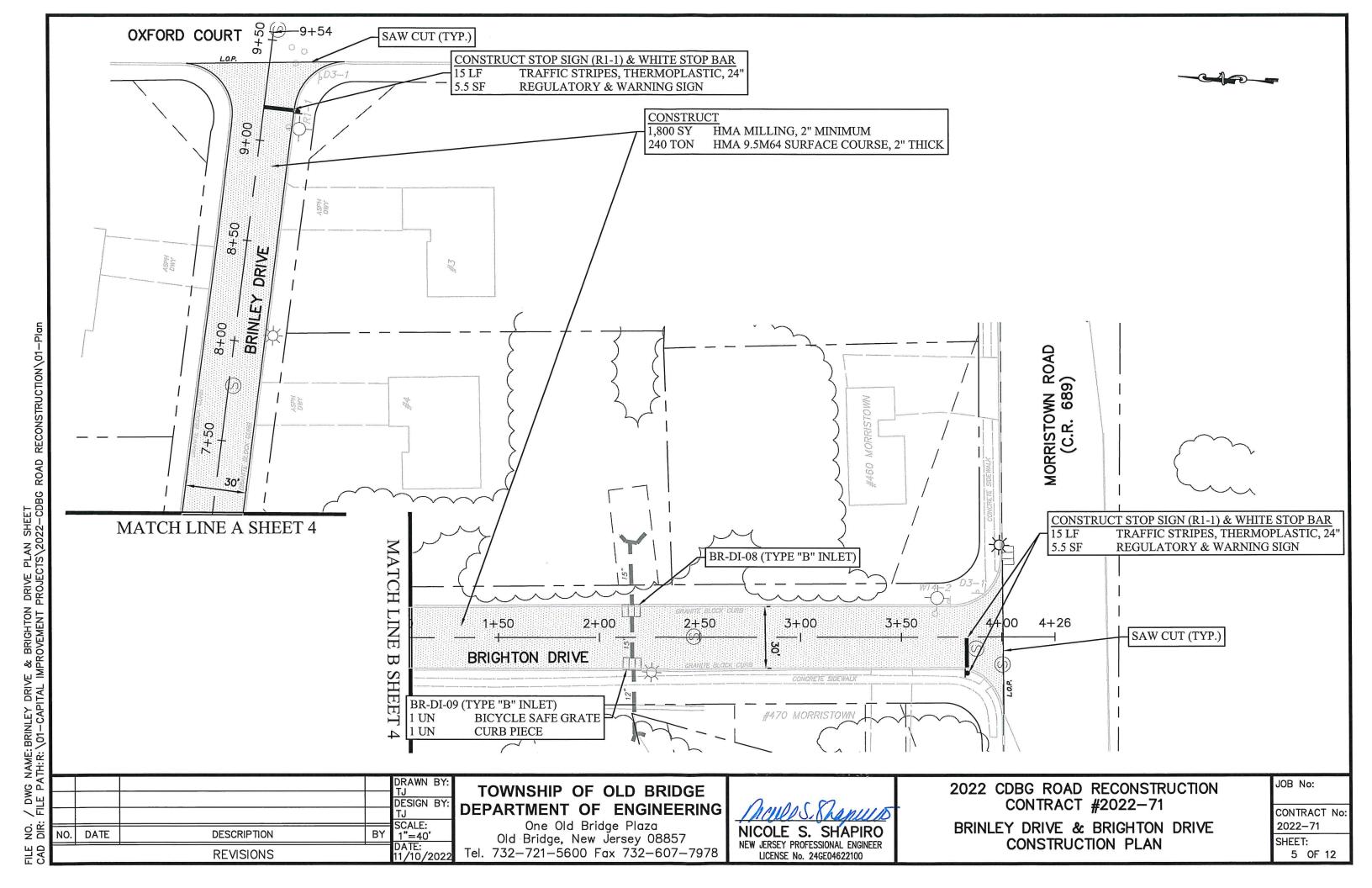
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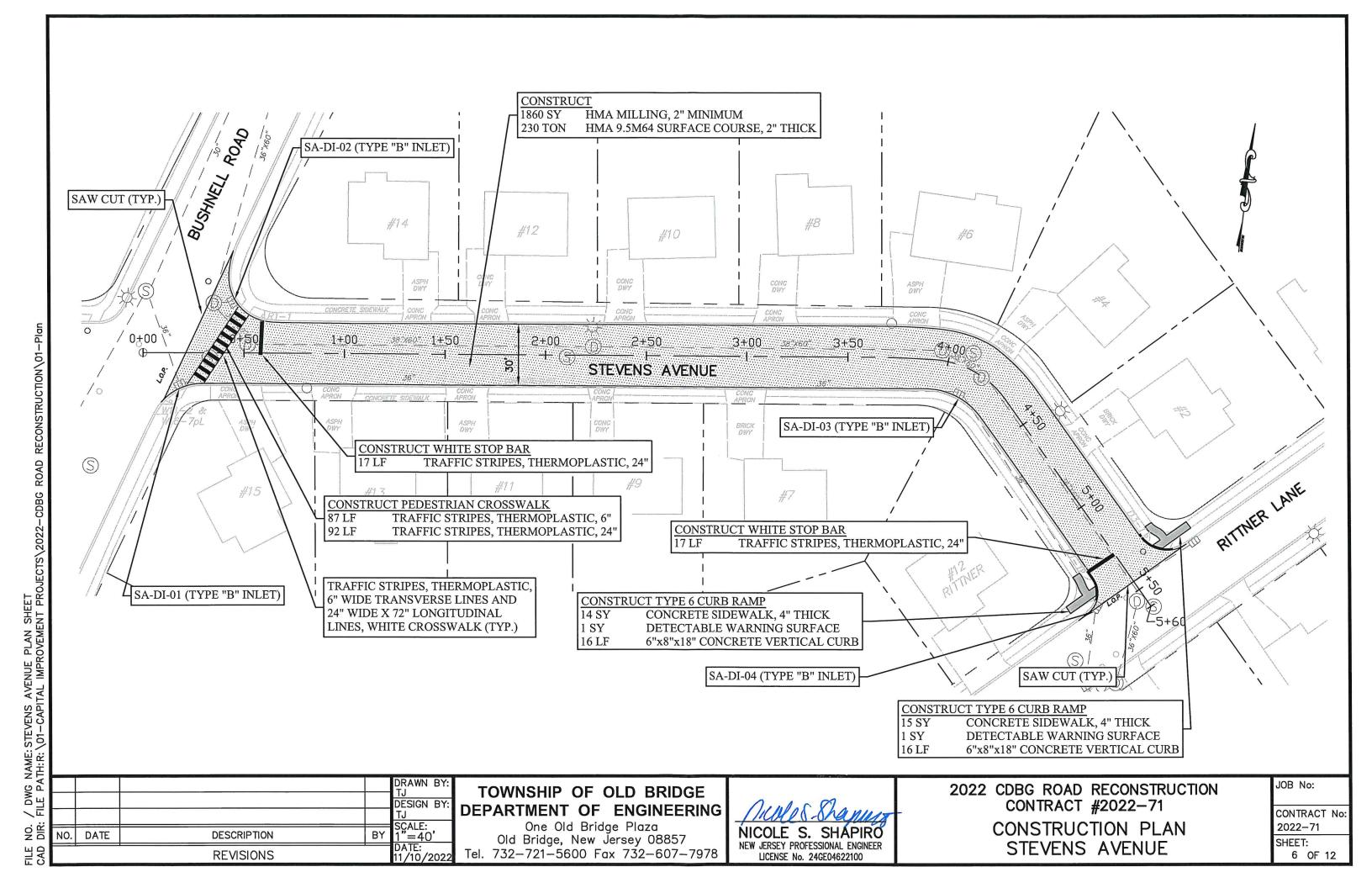
LEGEND & GENERAL NOTES SHEET

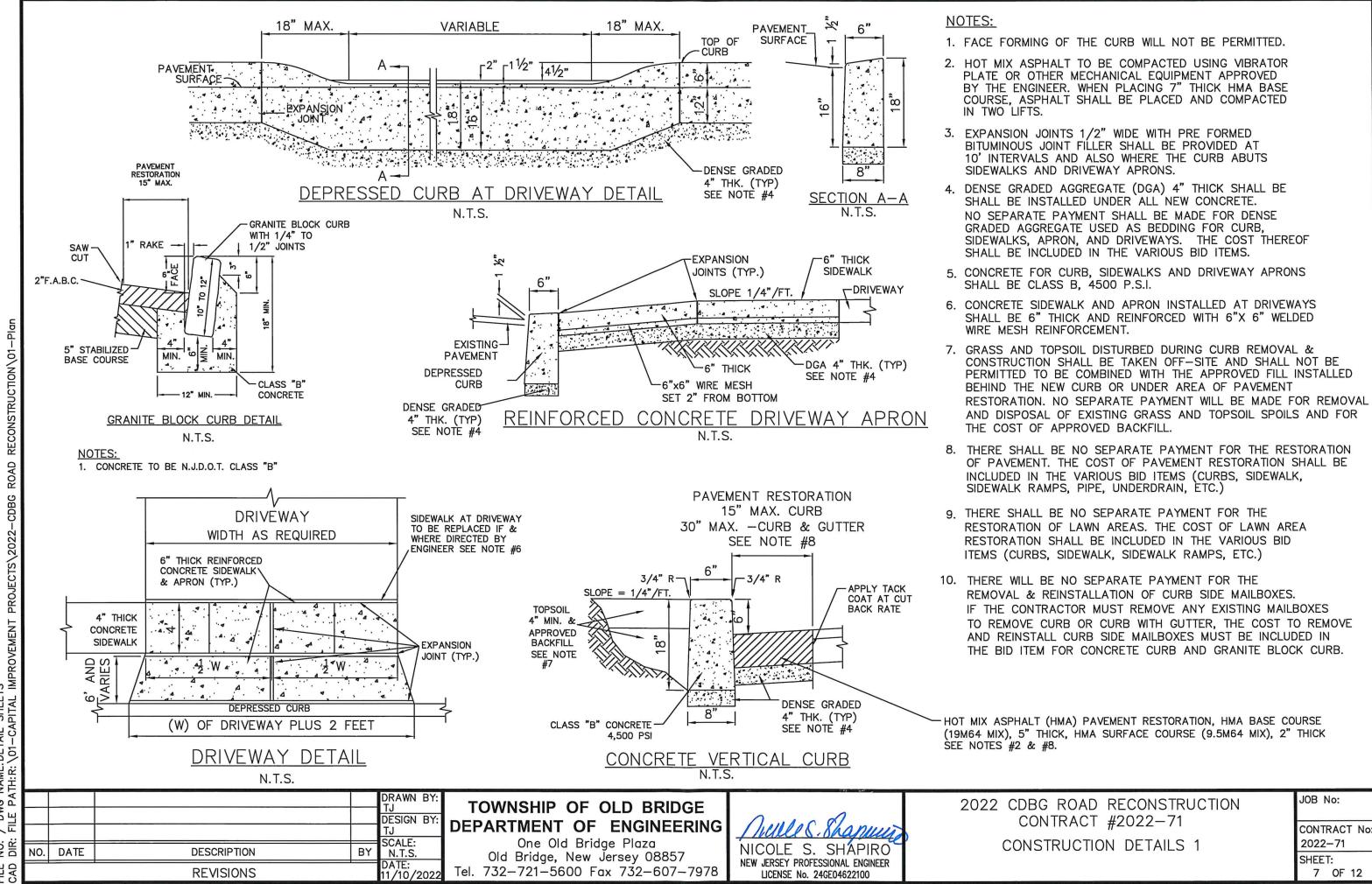
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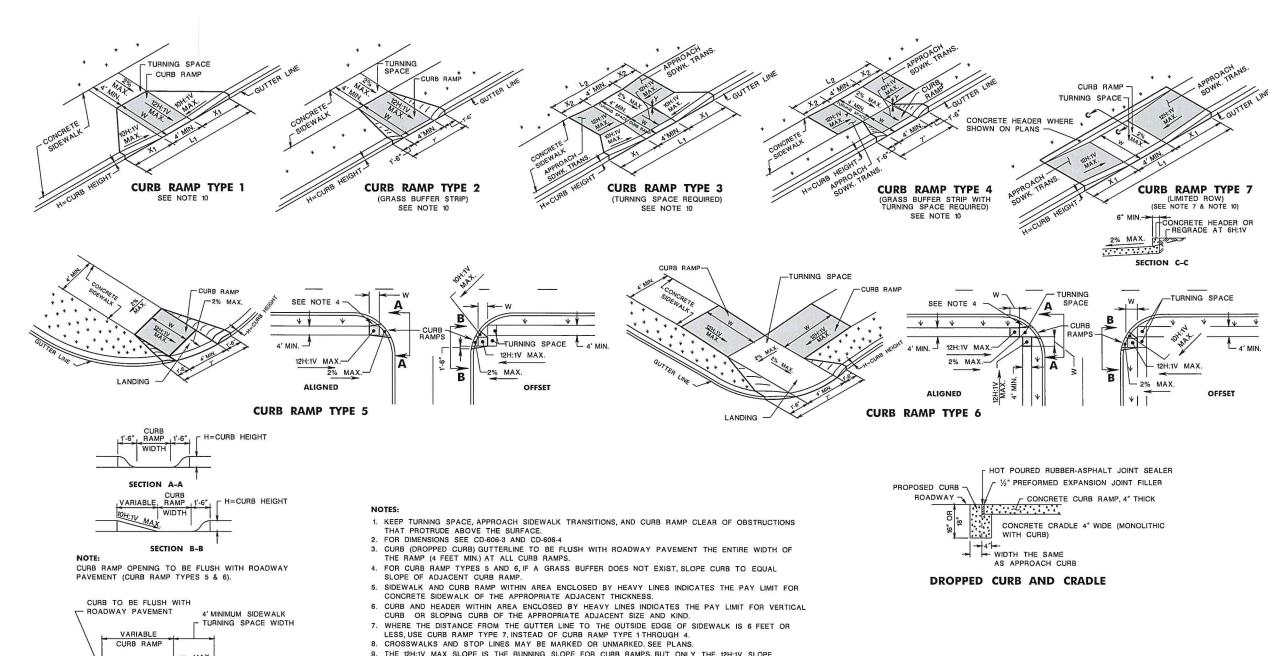


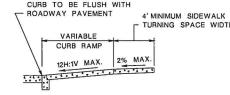




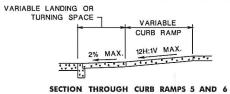


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SECTION THROUGH CURB RAMPS 1 THROUGH 4



- 9. THE 12H:1V MAX SLOPE IS THE RUNNING SLOPE FOR CURB RAMPS, BUT ONLY THE 12H:1V SLOPE MEASURED AS $\rm X_2$ IS THE RUNNING SLOPE FOR TYPE 3 AND TYPE 4 CURB RAMPS ENSURE THE RUNNING SLOPE OF CURB RAMPS DOES NOT REQUIRE ITS LENGTH TO EXCEED 15 FEET. THE RUNNING SLOPE MAY EXCEED THE 12H:1V MAX SLOPE SO AS NOT TO EXCEED THE 15 FEET
- 10. CURB RAMP TYPE 1 THROUGH 7 ARE NORMALLY PLACED ON THE RADIUS RETURN AT THE INTERSECTION

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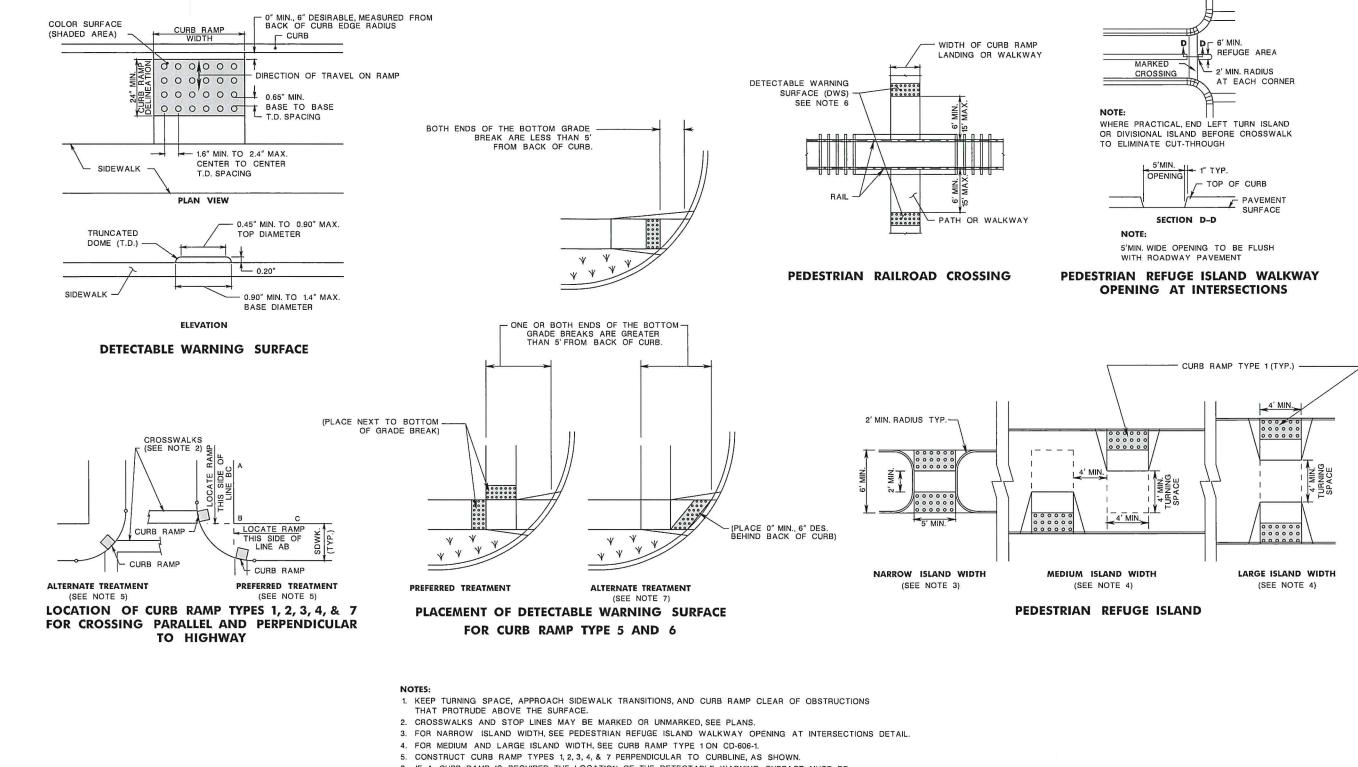
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2022 CDBG ROAD RECONSTRUCTION CONTRACT #2022-71 CONSTRUCTION DETAILS 2

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- 6. IF A CURB RAMP IS REQUIRED, THE LOCATION OF THE DETECTABLE WARNING SURFACE MUST BE
- AT THE BOTTOM OF THE RAMP AND WITHIN THE REQUIRED DISTANCE FROM THE RAIL.
- 7. A STANDARD DETECTABLE WARNING (DWS) SURFACE IS NOT AVAILABLE TO FIT THIS APPLICATION, AND THEREFORE ONE WILL NEED TO BE CUSTOMIZED. THE DWS SHOULD COVER THE ENTIRE WIDTH OF THE RAMP. THE ROWS OF DOMES ON THE DWS SHOULD FOLLOW THE DIRECTION OF TRAVEL OF THE RAMP, SO PEDESTRIANS WHO USE MOBILE DEVICES CAN TRACK BETWEEN THE DOMES.

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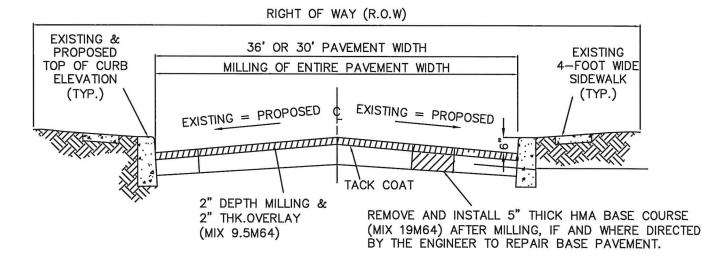


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CONSTRUCTION DETAILS 3

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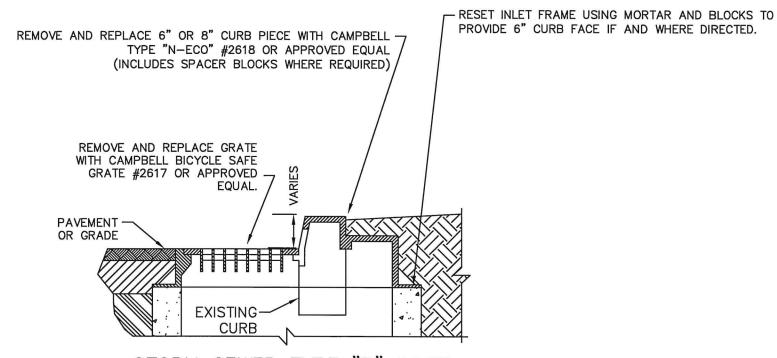
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NOTE: DGA 6" THK. TO BE INSTALLED UNDER ALL BASE PAVEMENT REPAIRS WHERE DIRECTED BY ENGINEER.

TYPICAL ROAD CROSS SECTION N.T.S.



STORM SEWER TYPE "B" INLET CURB PIECE AND GRATE RETROFIT DETAIL & RESET INLET FRAME USING MORTAR & BLOCK N.T.S.

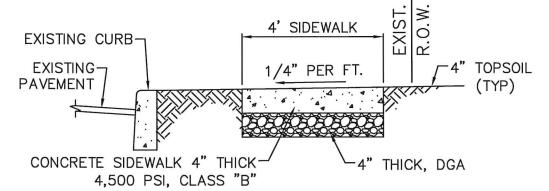
NOTE: 1. CURB PIECE RETROFIT MAY REQUIRE SPACER BLOCKS WHEN REPLACING AN 8" OR LARGER CURB PIECE WITH ECO-STYLE. CURB PIECE REPLACEMENT WILL INCLUDE THE COST OF ANY REQUIRED SPACER BLOCKS.

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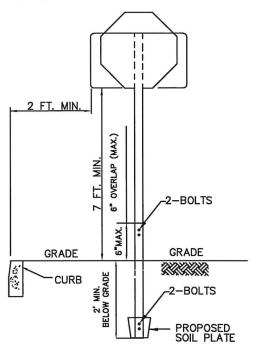
NICOLE S. SHÁPIRO **NEW JERSEY PROFESSIONAL ENGINEER** LICENSE No. 24GE04622100



NOTE:

EXPANSION JOINTS FOR SIDEWALK SHALL BE PROVIDED AT TWENTY (20) FEET INTERVALS AND WHERE THE NEW CONCRETE ABUTS EXISTING CONCRETE IT SHALL BE FILLED WITH PRE FORMED BITUMINOUS CELLULAR TYPE JOINT FILLER, 1/2" THICK. OPEN JOINTS AND EXPANSION MATERIAL SHALL BE FULL DEPTH AND WIDTH OF SIDEWALK.

SIDEWALK DETAIL N.T.S.



BREAK AWAY SIGN POST WITH SOIL PLATE 30" X 30" OR SMALLER N.T.S.

NOTES:

ANY POLE MOUNTED SIGNS THAT ARE REMOVED FROM THE GROUND DURING THE COURSE OF CONSTRUCTION MUST BE RETROFITTED WITH A "BREAK AWAY" DESIGN POLE AND FITTED WITH A SOIL PLATE.

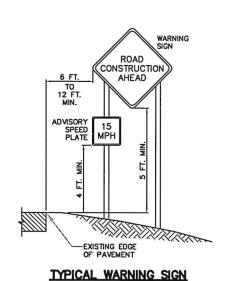
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CONSTRUCTION DETAILS 4

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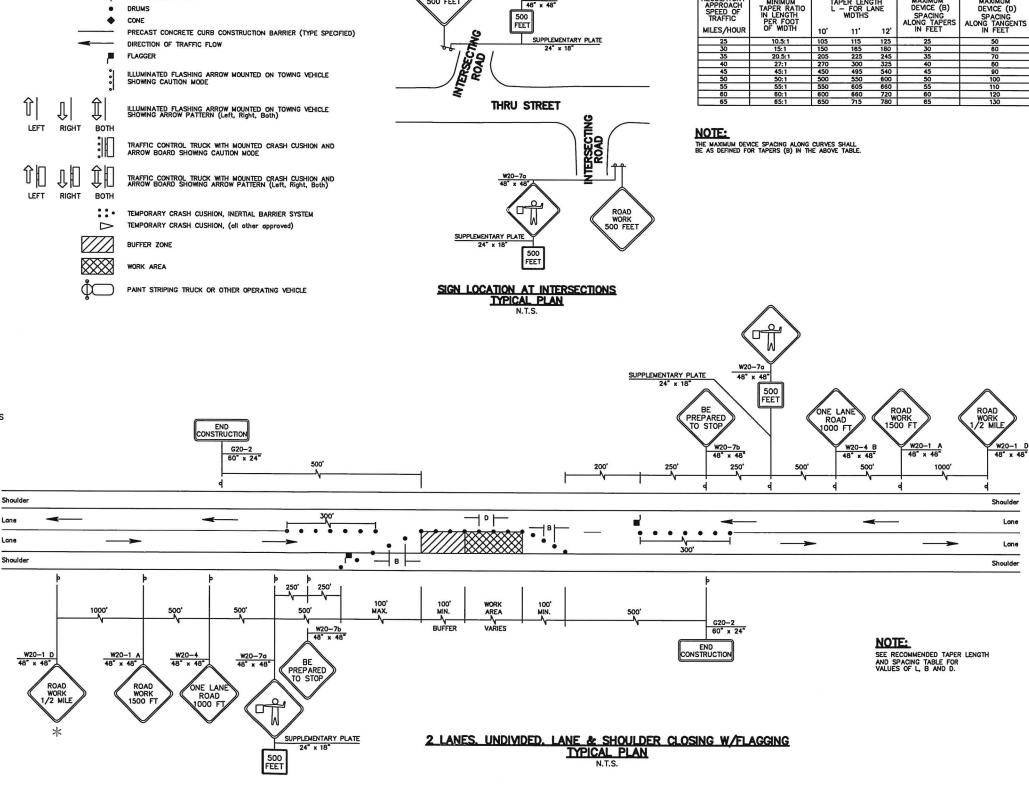
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- CONSTRUCTION SIGNS W8-9A AND W8-14A SHALL BE USED WHEN SUCH PAVEMENT CONDITIONS EXIST. THE PLACEMENT OF THESE SIGNS SHALL BE DONE AS DIRECTED
- CONSTRUCTION SIGNS R11-4 SHALL BE PLACED AT THE FIRST INTERSECTING STREET FROM THE CONSTRUCTION SITE AT THE TIME OF CONSTRUCTION ON THE SIDE STREETS.
- 100 FEET BEYOND EACH INTERSECTION OR MAIN ACCESS POINT WITHIN THE AREA OF A LANE OR SHOULDER CLOSURE, THERE SHALL BE WI-6 MOUNTED ON A BREAKAWAY BARRICADE CENTERED ON THE CLOSED WIDTH.
- CONSTRUCTION SIGN W99-2 (GIVE US A BRAKE) SHALL BE LOCATED 200 FEET IN ADVANCE OF PROJECT LIMITS.
- TRAFFIC FINES DOUBLED IN WORK AREA R(NJ)5-17 SIGN SHALL BE LOCATED 500 FEET AFTER FIRST ADVANCE WARNING SIGN, (W20 SERIES) AT EACH WORK AREA.
- CONSTRUCTION ZONE SPEED LIMIT SHALL BE DETERMINED BY THE REGIONAL TRAFFIC ENGINEER AT THE TIME OF CONSTRUCTION.
- THE SPEED LIMIT R2-1 (BLACK ON WHITE) OR W13-1 (BLACK ON ORANGE) SIGN SHALL BE LOCATED THROUGH WORK AREAS AS DIRECTED BY THE REGIONAL TRAFFIC ENGINEER.
- A REDUCED SPEED AHEAD SIGN, R2–Sq(S) (BLACK ON WHITE) SHALL BE LOCATED IN ADVANCE OF SPEED LIMIT R2–1 OR W13–1 SIGNS WHICH REDUCE THE NORMAL POSTED SPEED LIMIT THROUGH THE CONSTRUCTION ZONE.
- 11. POLICE OR TRAFFIC DIRECTORS SHALL BE USED TO ASSIST IN CONTROLLING TRAFFIC
- 12. CONES MAY BE SUBSTITUTED FOR DRUMS UPON APPROVAL OF THE ENGINEER.
- THE MINIMUM UNOBSTRUCTED LANE WIDTH SHALL BE 11 FEET. LANE WIDTH IS DEFINED AS THE WIDTH FROM THE EDGE OF DEVICE TO CENTER OF LANE LINE.
- ALL CONFLICTING STRIPES SHALL BE REMOVED.
- 15. REMOVABLE PAVEMENT MARKING TAPE OR OTHER MEANS OF TRAFFIC CONTROL SHALL BE UTILIZED WHERE LANE SHIFTS ARE REQUIRED ON INTERMEDIATE OR TOP PAVEMENT LAYERS OR ON EXISTING PAVEMENTS NOT BEING REPAVED.
- 16. UNLESS OTHERWISE SPECIFIED, TRAFFIC PAINT SHALL BE USED WHEN TRAFFIC STRIPES OR TRAFFIC MARKINGS ARE REQUIRED ON INTERMEDIATE PAVEMENT LAYERS THAT NEED TO BE OPENED TO TRAFFIC DUE TO STAGE CONSTRUCTION.
- ALL LANE CLOSURES AND DETOURING SHALL BE COORDINATED WITH THE TOWNSHIP OF OLD BRIDGE POLICE DEPARTMENT. TELEPHONE (732) 721-5600 x3820, SGT. AARON MATIKONIS



INSTALLATION DETAIL

NAME: ATH: R: `



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TOWNSHIP OF OLD BRIDGE DEPARTMENT OF ENGINEERING

LEGEND:

BREAKAWAY BARRICADES WITH SIGN

CONSTRUCTION SIGNS

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One Old Bridge Plaza Old Bridge, New Jersey 08857 Tel. 732-721-5600 Fax 732-607-7978 NICOLE S. SHAPIRO NEW JERSEY PROFESSIONAL ENGINEER LICENSE No. 24GE04622100

2022 CDBG ROAD RECONSTRUCTION CONTRACT #2022-71 TRAFFIC CONTROL PLAN

RECOMMENDED TAPER LENGTH AND SPACING FOR CHANNELIZING TAPERS

REGULATOR APPROACH SPEED OF TRAFFIC

SPACING ALONG TANGENTS

MAXIMUM DEVICE (B)

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SOIL EROSION AND SEDIMENT CONTROL NOTES:

- 1. The Freehold Soil Conservation District shall be notified seventy—two (72) hours in advance of any land disturbing activity.
- All work is to be done in accordance with the State Standards for Soil Erosion and Sediment Control of New Jersey.
- 3. All Soil Erosion and Sediment Control practices are to be installed prior to any major soil disturbance, or in their proper sequence, and maintained until permanent protection is established.
- 4. Any changes to the Certified Soil Erosion and Sediment Control Plans will require the submission of revised Soil Erosion and Sediment Control Plans to the District for re—certification. The revised plans must meet all current State Soil Erosion and Sediment Control Standards.
- 5. In that N.J.S.A 4:24—39 et. Seq. requires that no Certificates of Occupancy be issued before the provisions of the Certified Plan for Erosion Control have been complied with for permanent measures. All site work and all work around individual lots in subdivisions, will have to be completed prior to the District issuing a Report of Compliance for the issuance of a Certificate of Occupancy by the Municipality.
- 6. Any disturbed areas 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 temporary cover, the disturbed areas will be mulched with straw, or equivalent material, at a rate of 2 to 2 ½ tons per acre, according to State Standard for Stabilization with Mulch Only.

7. Immediately following initial disturbance or rough grading, all critical areas subject to erosion (i.e. steep slopes and roadway embankments) will receive temporary seeding in combination with straw mulch or a suitable equivalent, at a rate of 1 ½ to 2 tons per acre, according to State Standards.

8. A sub—base course will be applied immediately following rough grading and installation of improvements to stabilize streets, roads, driveways, and parking areas. In areas where no utilities are present, the sub—base shall be installed within fifteen (15) days of the preliminary grading.

9. Any steep slopes receiving pipeline installation will be backfilled and stabilized daily, as the installation continues (i.e. slopes grater than 3:1).

- 10. The Standard for Stabilized Construction Access requires the installation of a pad of clean crushed stone at points where traffic will be accessing the construction site. After interior roadways are paved, individual lots require a stabilized construction entrance consisting of one inch to two inch (1" 2") stone for a minimum length of ten feet (10') equal to the lot entrance width. All other access points shall be blocked off.
- 11. All soil washed, dropped, spilled, or tracked outside the limit of disturbance or onto public right—of—ways will be removed immediately.
- 12 Permanent vegetation is to be seeded or sodded on all exposed areas within ten (10) days after final grading.
- 13. At the time that 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 it will permanently adjust the soil conditions and render it suitable for vegetative ground cover. If the removal or treatment of the soil will not provide suitable conditions, non-vegetative means of permanent ground stabilization will have to be employed.

14. In accordance with the Standard for Management of High Acid Producing Soils, any soil having a pH of 4 or less or containing iron sulfides shall be covered with a minimum of twelve (12) inches of soil having a pH of 5 or more prior to seedbed preparation. Areas where trees or shrubs are to be planted shall be covered with a minimum of twenty—four (24) inches of soil having a pH of 5 or more.

15. Conduit Outlet Protection must be installed at all required outfalls prior to the drainage system becoming operational.

- 16. Unfiltered dewatering is not permitted. Necessary precautions must be taken during all dewatering operations to minimize sediment transfer. Any dewatering methods used must be in accordance with the Standard for Dewatering.
- 17. Should the control of dust at the site be necessary, the site will be sprinkled until the surface is wet, temporary vegetative cover shall be established or mulch shall be applied as required by the Standard for Dust Control.
- 18. Stockpile and staging locations established in the field shall be placed within the limit of disturbance according to the certified plan. Staging and stockpiles not located within the limit of disturbance will require certification of a revised Soil Erosion and Sediment Control Plan. Certification of a new Soil Erosion and Sediment Control Plan may be required for these activities if an area greater than 5,000 square feet is disturbed.
- 19. All soil stockpiles are to be temporarily stabilized in accordance with Soil Erosion and Sediment Control note #6.
- 20. The property owner shall be responsible for any erosion or sedimentation that may occur below stormwater outfalls or offsite as a result of construction of the project.

Freehold Soil Conservation District 4000 Kozloski Road Freehold, NJ 07728 (732) 683-8500, fax (732) 683-9140 Email: info@freeholdscd.org.

DRILLED 2x4

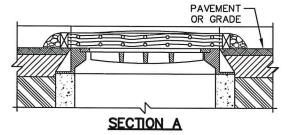
DRILLED 2x4

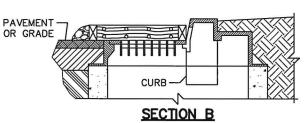
NOTE:

1. INLET TO BE "BOXED" IN WITH 2x4's STOOD ON EDGE.

2. 2 ROWS OF 1/2" HOLES TO BE DRILLED IN BOARDS, 6" O.C.

3. 3/4" STONE TO BE PILE AROUND "BOX" TO FILTER SEDIMENT.





STORM SEWER INLET PROTECTION N.T.S.

| | | | | DRAWN BY: | |
|-----|------|-------------|----|---------------------|---|
| | | | | DESIGN BY: | ב |
| NO. | DATE | DESCRIPTION | BY | SCALE: N.T.S. | |
| | | REVISIONS | • | DATE: 11/10/2022 | , |

TOWNSHIP OF OLD BRIDGE DEPARTMENT OF ENGINEERING

One Old Bridge Plaza
Old Bridge, New Jersey 08857
Tel. 732-721-5600 Fax 732-607-7978

NICOLE S. SHAPIRO
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE No. 24GE04622100

2022 CDBG ROAD RECONSTRUCTION CONTRACT #2022-71

SOIL EROSION & SEDIMENT CONTROL NOTES & DETAILS

JOB No:

CONTRACT No: 2022-71
SHEET: 12 OF 12