TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY
2024 MILLING AND RESURFACING PROGRAM

UTILITIES

ELECTRIC
PUBLIC SERVICE ELECTRIC AND GAS CO.
472 WESTON CANAL ROAD
SOMERSET, NJ 08873
ATTN : JASON HESS
(732) 764–3158

CABLE
COMCAST CABLE
800 RAHWAY AVENUE
UNION, NJ 07083
ATTN: PHILIP GIBSON
(908) 624–6779

WATER
MIDDLESEX WATER COMPANY
ENGINEERING DEPARTMENT
1500 RONSON ROAD, P.O. BOX 1500
ISELIN, NJ 08830–0452
ATTN: ISIDRO BUEN
(732) 638–7533

TELEPHONE/COMMUNICATIONS
VERIZON–NEW JERSEY, INC.
999 WEST MAIN STREET
FREEHOLD, NJ 07728
ATTN: IAN CHAN
(224) 713–2566

SANITARY SEWER
TOWNSHIP OF WOODBRIDGE
DIVISION OF ENGINEERING
1 MAIN STREET
WOODBRIDGE, NJ 07095
ATTN: MICHAEL GELIN
(732) 602–6047

GAS
BUCKEYE PARTNERS, LP
9999 HAMILTON BOULEVARD
BREINGSVILLE, PA 18031
ATTN: DAVE A. JONES
(610) 283–1701

ELIZABETHTOWN GAS CO.
520 GREEN LANE
UNION, NJ 07083
ATTN: KEVIN ESCOBAR
(908) 662–8370

MIDDLESEX COUNTY UTILITIES AUTHORITY
2571 MAIN STREET P.O. BOX 1500
SAYREVILLE, NJ 08872
ATTN: KEVIN T. AIELLO
(732) 721–3800

WILLIAM GAS PIPELINE–TRANSCO
99 FARBER ROAD
PRINCETON, NJ 08540
ATTN: KEVIN YUILL
(732) 921–5623

TEXAS EASTERN GAS PIPELINE
501 COOLIDGE STREET
SOUTH PLAINFIELD, NJ 07080
ATTN: RICHARD THORNTON
(908) 821–1803

JOHN E. McCORMAC - MAYOR

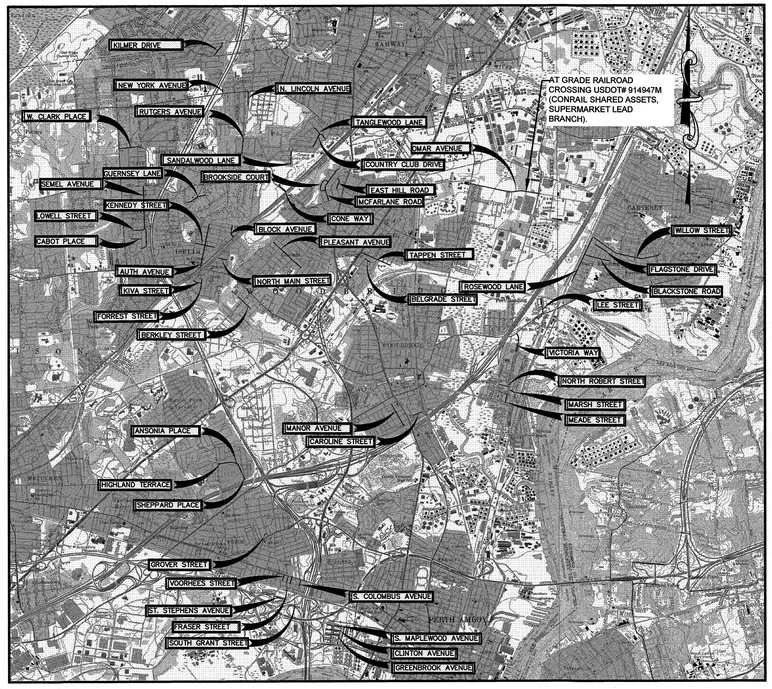
TOWNSHIP COUNCIL

KYLE ANDERSON	COUNCIL PRESIDENT
CORY SPILLAR	COUNCIL VICE PRESIDENT
HOWIE BAUER	COUNCILMAN
LIZBETH DEJESUS	COUNCILWOMAN
GREGG M. FICARRA	COUNCILMAN
SHARON MCAULIFFE	COUNCILWOMAN
DEBBIE MEEHAN	COUNCILWOMAN
VIRBHADRA N. PATEL	COUNCILMAN
BRIAN SMALL	COUNCILMAN

VITO CIMILLUCA	BUSINESS ADMINISTRATOR
JOHN M. MITCH	MUNICIPAL CLERK
JAMES P. NOLAN, JR., ESQ.	DIRECTOR OF LAW
GEORGE T. BREW	DIRECTOR OF PUBLIC WORKS
MICHAEL GELIN, P.E.	MUNICIPAL ENGINEER

CONTRACT NO. 2024-001

MAY 2024



LOCATION MAP

SCALE: N.T.S.

NEW JERSEY DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF 2019 AND ALL AMENDMENTS IN CME ASSOCIATES FORMAT THERETO SHALL GOVERN.

THE HEADING OF THE ARTICLES CONTAINED HEREIN CONFORM TO THE NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, DATED 2019 AND ALL ADDENDA THERETO, WHICH IS TO BE USED IN THE EXECUTION OF THIS CONTACT.

THE NEW JERSEY DEPARTMENT OF TRANSPORTATION "STANDARD ROADWAY CONSTRUCTION/TRAFFIC CONTROL/BRIDGE CONSTRUCTION DETAILS" BOOKLET DATED 2016 AND "ELECTRICAL BUREAU STANDARD DETAILS" (2007) TO GOVERN, EXCEPT FOR THOSE DETAILS CONTAINED HEREIN.

TOTAL LENGTH OF PROJECT = 9.37 MILES

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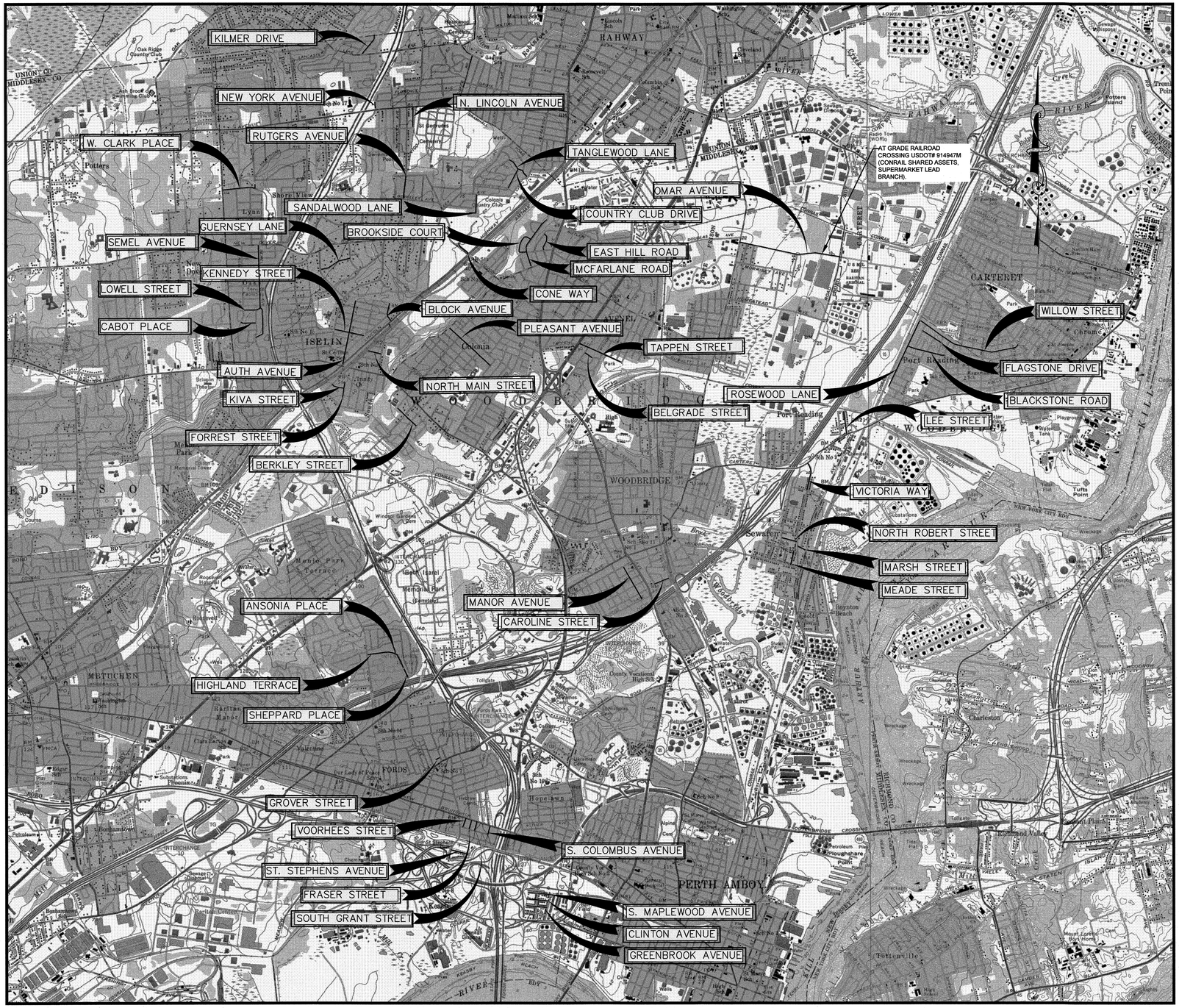
PREPARED BY:

GARY M. OLIVA, P.E.
NEW JERSEY PROFESSIONAL ENGINEER LICENSE No. 47483

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859 —— 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731

PWBOA615.01



GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY FOR CONSTRUCTION IN ACCORDANCE WITH EXISTING LOCAL, COUNTY, OR STATE REGULATIONS, OR ANY OTHER AGENCY HAVING JURISDICTION IN THESE MATTERS.
2. THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL VERIFY ALL DIMENSIONS AND DETAILS BEFORE PROCEEDING WITH WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
3. ALL REGRADED AREAS AT THE SITE WHICH ARE NOT DESIGNATED AS PAVED OR GRAVEL AREAS SHALL BE TOPSOILED AND SEEDED AND SHALL BE STABILIZED IN ACCORDANCE WITH STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY AND THE CONTRACT SPECIFICATIONS.
4. ALL GRADING OPERATIONS SHALL PROVIDE FOR POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS AND STRUCTURES AND SHALL ELIMINATE PONDING AREAS.
5. THE CONTRACTOR SHALL MAKE ALL NECESSARY INVESTIGATIONS TO SATISFY THEMSELVES AS TO THE EXISTING CONDITIONS PRIOR TO BIDDING WORK, WORK INCLUDING THE LOCATION OF EXISTING RESIDENTIAL SPRINKLER SYSTEMS.
6. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE THE LOCATION OF THE UTILITIES WITH THE UTILITY COMPANIES PRIOR TO CONSTRUCTION.
7. THE COORDINATION OF THE LOCATION OR RELOCATION WHERE REQUIRED OF TELEPHONE, CABLE, ELECTRIC, GAS, AND WATER FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR AND SAME SHALL BE COORDINATED TO INSURE COMPLETION WITHIN THE TIME PERMITTED.
8. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN MEANS OF INGRESS AND EGRESS TO RESIDENTS THROUGHOUT THE COURSE OF THE WORK AND TO PROVIDE ADEQUATE MAINTENANCE AND PROTECTION OF TRAFFIC.
9. THE CONTRACTOR'S LICENSED SURVEYOR SHALL PROVIDE THE CONSTRUCTION STAKEOUT FOR THE PROJECT.
10. THE CONTRACTOR WILL NOT BE PERMITTED TO STOCKPILE EXCAVATED MATERIALS OVER EXISTING UTILITY LINES. THE STOCKPILED MATERIALS SHOULD BE PLACED SUFFICIENTLY AWAY FROM THE EDGE OF ANY EXCAVATION TO PREVENT CAVING OF THE TRENCH WALL AND TO PERMIT ACCESS ALONG THE TRENCH. WITH SHEETED TRENCHES, A MINIMUM OF FIVE (5) FEET FROM THE EDGE OF SHEETING TO TOE OF SPOIL BANK MUST BE MAINTAINED.
11. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION NECESSARY TO PRECLUDE DAMAGE TO EXISTING STRUCTURES, FACILITIES, AND UTILITIES DUE TO LOSS OF LATERAL SUPPORT AND/OR CONSTRUCTION LOADINGS. SPECIFIC DETAILS NECESSARY TO ACCOMPLISH SAME SHALL BE SUBMITTED BY THE CONTRACTOR FOR REVIEW AND APPROVAL PRIOR TO COMMENCING CONSTRUCTION.
12. ALL WORK BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE NEW JERSEY STATUTE KNOWN AS CHAPTER 249 OF THE LAWS OF 1948, BEING SECTIONS 34:6-47.1 TO 47.9, INCLUSIVE OF THE REVISED STATUTES OF NEW JERSEY, 1937, AND IN ACCORDANCE WITH THE RULES AND REGULATIONS CONCERNING PRECAUTIONS TO BE TAKEN IN THE PROXIMITY OF HIGH-VOLTAGE LINES FOR THE PREVENTION OF ACCIDENTS PROMULGATED BY THE COMMISSIONER OF THE DEPARTMENT OF LABOR AND INDUSTRY OF THE STATE OF NEW JERSEY, EFFECTIVE DECEMBER 28, 1948, ALL AS AMENDED AND SUPPLEMENTED, AND IN ACCORDANCE WITH THE PROVISIONS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND OF SUBPART N, PARAGRAPH 1926.550 OF THE RULES AND REGULATIONS ISSUED UNDER SAID ACT.
13. THE CONTRACTOR IS HEREIN ADVISED THAT ALL WORK TO BE PERFORMED SHALL BE GOVERNED BY THE LOCAL MUNICIPAL ORDINANCES. THIS SHALL INCLUDE THE PROVISIONS IN THEIR CODES WHICH SET FORTH PERMITTED HOURS OF CONSTRUCTION WITHIN THE MUNICIPALITY.
14. THE CONTRACTOR IS ADVISED THAT THEY ARE RESPONSIBLE TO PAY FOR, ACQUIRE AND COMPLY WITH ANY ROAD OPENING PERMITS IF REQUIRED IN CONJUNCTION WITH THE PROPOSED IMPROVEMENTS.
15. THE CONTRACTOR SHALL COMPLY WITH THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES BY THE U.S.D.O.T.
16. THE CONTRACTOR IS ADVISED THAT THEY MUST MAINTAIN A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION AT ALL TIMES AND MUST COMPLETELY BACKFILL ALL TRENCHES PRIOR TO NON-DAYLIGHT HOURS.
17. IN ORDER TO MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION, THE CONTRACTOR MAY FIND IT NECESSARY TO UTILIZE STEEL PLATES OVER TRENCHES AT NO ADDITIONAL COST TO THE OWNER.
18. WHEN DISTURBING, REMOVING AND/OR DISPOSING OF ASBESTOS CEMENT PIPE, THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO: CURRENT USEPA REGULATIONS (NESHAP, 40 CFR 61 SUBPART M);OSHA REGULATIONS (29 CFR 192658);THE CURRENT NEW JERSEY ASBESTOS HAZARD ABATEMENT SUBCODE (N.J.A.C. 5:23-8); THE CURRENT NJDEPE REGULATIONS (N.J.A.C. 7:26-1 ET. SEQ.); AND NOTIFICATION REGULATIONS (N.J.A.C. 5:23-8.6, 40 CFR 61 SUBPART M, AND N.J.A.C. 7:26-2:12).
19. THE FREEHOLD SOIL CONSERVATION DISTRICT GOVERNS SOIL EROSION AND SEDIMENT CONTROL MEASURES WITHIN THE PROJECT AREA. ACCORDINGLY ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED AS PER THE REQUIREMENTS OF THE FREEHOLD SOIL CONSERVATION DISTRICT AND AS DIRECTED BY THE ENGINEER.
20. AT CERTAIN TIMES THE SITE MAY BE OCCUPIED BY SEVERAL CONTRACTORS AND IT IS THEREFORE REQUIRED FOR ANY AND ALL CONTRACTORS OCCUPYING THE SITE TO COOPERATE WITH ONE ANOTHER. NO DELAYS RESULTING FROM MULTIPLE CONTRACTORS WORKING ON THE SITE WILL BE CONSIDERED.
21. THE CONTRACTOR SHALL CONTINUOUSLY DEWATER ALL EXCAVATIONS UNTIL BACKFILLING OPERATIONS HAVE BEEN COMPLETED. PRIOR TO DISCHARGE TO STREAMS, SILT SHALL BE SETTLED OUT IN AN APPROVED SETTLING BASIN.
22. THE CONTRACTOR SHALL MAINTAIN THE FLOW OF ALL STREAMS, DRAINAGE DITCHES, STORM SEWERS, AND SANITARY SEWERS AT ALL TIMES BY A MEANS ACCEPTABLE TO THE ENGINEER AND ALL THE RESPONSIBLE AGENCIES.
23. THE CONTRACTOR SHALL MAINTAIN ALL UTILITY SERVICE FLOWS AND PRESSURES UNLESS WRITTEN APPROVAL BY THE RESPONSIBLE UTILITY COMPANY PERMITS THEM TO DO OTHERWISE.
24. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STATE OF NEW JERSEY WORKER HEALTH AND SAFETY ACT (N.J.A.C. 12:110 ET SEQ) AS AMENDED AND THE UNITED STATES OCCUPATIONAL SAFETY & HEALTH ACT (OSHA) (29 CFR 1910.), AS AMENDED WITH REGARD TO WORKER AND JOBSITE SAFETY.
25. ALL MAILBOXES REQUIRING RELOCATION SHALL BE DONE SO IN ACCORDANCE WITH LOCAL POSTAL AUTHORITY REGULATIONS.
26. TREES SHALL BE PLANTED IF AND WHERE DIRECTED BY THE ENGINEER.
27. PRIOR TO WORKING IN THE AREA OF THE ROADWAY ON WHICH THE PROPOSED EASEMENT OR RIGHT OF ENTRY IS REQUIRED, THE CONTRACTOR SHALL VERIFY WITH THE ENGINEER THAT THE SAME HAS BEEN OBTAINED.
28. RESETTING OF EXISTING SIGNS SHALL BE WITH BREAKAWAY STEEL U-POST IN ACCORDANCE WITH NJDOT STANDARD DETAILS.

AT–GRADE RAILROAD CROSSING NOTES:

1. IN CASE OF EMERGENCY DURING THE PROPOSED CONSTRUCTION ACTIVITIES INVOLVING CONRAIL RAILROAD TRACKS, RAILROAD WARNING DEVICES, RAILROAD WIRING, SURFACE, RAILROAD FACILITY AND R.O.W. PLEASE CONTACT EMERGENCY PHONE FOR CONRAIL AT (800)799*0994 OR CONTACT RYAN HILL AT (856)231-2016 OR RYAN.HILL@CONRAIL.COM.
2. IF NEEDED, DETERMINED BY INSPECTION (NJDOT RAILROAD ENGINEERING SAFETY UNIT), ANY R.R. PAVEMENT MARKING DAMAGE DURING THE CONSTRUCTION WORK WILL BE REPLACED IN KIND AT THE EXPENSE OF CONTRACTOR OR JURISDICTION AUTHORITY. COORDINATE FINAL INSPECTION WITH NJDOT RAILROAD ENGINEERING SAFETY UNIT.
3. CONTACT CONRAIL FOR ANY WORK WITHIN ITS RIGHT-OF-WAY THAT WILL REQUIRE A FLAGMAN, INSURANCE, AND/OR PERMISSION. THE CONTACT PERSON FOR CONRAIL IS MARIA BOURASSA, RIGHT-OF-WAY MANAGER, AND SHE CAN BE REACHED AT MARIA.BOURASSA@CONRAIL.COM.
4. CONTRACTOR IS HEREIN ADVISED THAT THIS ACTIVITY WILL REQUIRE RAILROAD LIABILITY INSURANCE. THE INSURANCE POLICY SHOULD BE IN THE NAME OF THE RAILROAD OWNER AND OPERATOR. CONTACT CONRAIL FOR DETAILS OF INSURANCE REQUIREMENTS.
5. CONTRACTOR TO ADHERE TO THE FOLLOWING TRAFFIC CONTROL DETAILS THROUGHOUT THE ENTIRE DURATION OF CONSTRUCTION WORK:
   a. NO RAILROAD WARNING DEVICES ARE TO BE DISTURBED / MOVED / BLOCKED DURING THIS PROJECT.
   b. REPLACE ANY RAILROAD WARNING SIGNS AND/OR PAVEMENT MARKINGS ACCORDING TO MUTCD THAT MAY BE DISTURBED DURING CONSTRUCTION.
   c. NO TRAFFIC CONTROL DEVICES LOCATED WITHIN THE CONRAIL SHARED ASSETS RAIL OPERATIONS.
   d. DIRECT NO VEHICLE / TRAFFIC ACROSS THE HIGHWAY-RAIL AT-GRADE CROSSING UNTIL PRECEDING VEHICLE CLEARS THE TRACK AND "FOUL" AREA.
   e. AT NO TIME DURING THE TRAFFIC CONTROL PHASES SHALL ANY VEHICLE / PEDESTRIAN / UNIFORMED OFFICER / CONES / DRUMS / SIGNAGE AND DEVICES "FOUL THE TRACKS".

LOCATION PLAN

GRAPHIC SCALE

2000 0 1000 2000 4000 8000

(IN FEET)
1 inch = 2000ft.

No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

LOCATION PLAN AND CONSTRUCTION NOTES

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 (732) 727 8000
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194 (732) 462 7400

REGISTER NO.

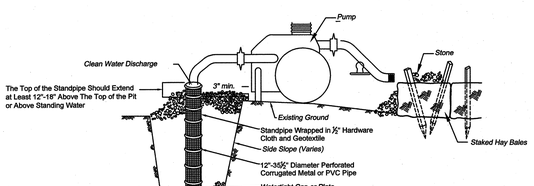
FILE NO. PWB0A615.01

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	DATE	DRAWING NUMBER
As Shown	May 2024	LP-1
DRAWN BY: PD	DESIGNED BY: PD	
CHECKED BY: GO	SHEET: 2 of 77	LP-1

PERMANENT VEGETATIVE MIXTURES, PLANTING RATES AND PLANTING DATES [1]

SEED MIXTURE [2]	PLANTING RATE [3]		PLANTING DATES: O = OPTIMAL PLANTING PERIOD; A = ACCEPTABLE PLANTING PERIOD — PLANT HARDINESS ZONE: ZONE 5B, 6A		ZONE 6B		ZONE 7A, 7B		MAINTENANCE LEVEL [4]	REMARKS
	LBS/ACRE	LBS/1000 SQ. FT	3/15 - 5/31	6/1 - 7/31	3/1 - 4/30	5/1 - 8/31	3/15 - 4/30	5/1 - 8/15		
WARM SEASON SEED MIXTURES										
2A. FOR PINELANDS NATIONAL RESERVE SEED MIXTURES SEE TABLE 6-4 PAGE 6-27 OF NJ SCS STANDARDS			O		O		O			
1. SWITCHGRASS AND/OR COASTAL PANICGRASS PLUS OR PLAYPEA	15 15 20	.35 .35 .45	O		O		O		C-D	
2. DEERTONGUE SWITCHGRASS REDTOP	15 20 1	.35 .45 .1	O		O		O		C-D	USE DEERTONGUE IF PIN-4.5 SWITCHGRASS IS SUPERIOR HEIGHT PLANT. USE FOR WATERWAYS. REDTOP PROVIDES QUICK COVER.
3. SWITCHGRASS DEERTONGUE LITTLE BLUESTEM SHEEP FESCUE PLUS PARTRIDGE PEA	15 10 20 20 20	.35 .25 .45 .45 .25	O		O		O		C-D	PINELANDS MIXTURE
4. SWITCHGRASS BIG BLUESTEM LITTLE BLUESTEM CREEPING RED FESCUE COASTAL PANICGRASS	10 5 5 4 20	.25 .10 .10 .10 .45	O		O		O		C-D	NATIVE WARM-SEASON MIXTURE
5. BERMUDAGRASS ZOYSIAGRASS (SEED) ZOYSIAGRASS (SPRIGS)	15 30	.35 .70	O		O		O		A-D	BERMUDAGRASS HAS SUPERIOR SALT TOLERANCE. ZOYSIA HAS GREATER WEAR TOLERANCE
COOL SEASON SEED MIXTURES										
6. FINE FESCUE HARD FESCUE CHEWINGS FESCUE STRONG CREEPING RED FESCUE KENTUCKY BLUEGRASS PERENNIAL RYEGRASS PLUS WHITE CLOVER (SEE REMARKS)	130 45 20 5	3 1 .5 .10	A	A[5]	O	A	A[5]	O	B-D	WHITE CLOVER CAN BE OMITTED ON LAWN. USE TO ESTABLISH LAWNS.
7. STRONG CREEPING RED FESCUE KENTUCKY BLUEGRASS PERENNIAL RYEGRASS OR REDTOP PLUS WHITE CLOVER	130 50 20 10 5	3 1 .5 .25 .1	A	A[5]	O	A	A[5]	O	B-D	SUITABLE WATERWAY MIX. USE KAKAI BLUEGRASS MORE DROUGHT TOLERANT. USE REDTOP FOR INCREASED DROUGHT TOLERANCE.
8. TALL FESCUE (TURF-TYPE) OR STRONG CREEPING RED FESCUE OR PERENNIAL RYEGRASS PLAYPEA	30 30 30 25	.7 .7 .7 .60	O	A[5]	O	A	A[5]	O	B-D	TALL FESCUE BEST SELECTED FOR DROUGHT TOLERANCE. STRONG CREEPING RED FESCUE IN HEAVY SHADE. USE PLAYPEA TO SUPPRESS WOODY VEGETATION.
9. DEERTONGUE REDTOP WILD RYE (ELYMUS) SWITCHGRASS	20 3 15 25	.45 .05 .35 .60	O		O		O		C-D	NATIVE WET MIX.
10. TALL FESCUE (TURF-TYPE) PERENNIAL RYEGRASS WHITE CLOVER (SEE REMARKS)	265 20 5	6 .5 .10	O	A[5]	A[5]	O	A[5]	A[5]	C-D	WHITE CLOVER CAN BE OMITTED ON LAWN.
11. KENTUCKY BLUEGRASS TURF-TYPE TALL FESCUE	45 22	1 .5	A	A[5]	O	A	A[5]	O	C-D	FILTER STRIP USE FOR NUTRIENT UPTAKE.
12. TURF-TYPE TALL FESCUE (BLEND OF 3 CULTIVARS)	350	8	A	A[5]	O	A	A[5]	O	C-D	USE IN A MANAGED SYSTEM FOR NUTRIENT UPTAKE.
13. HARD FESCUE CHEWINGS FESCUE AND/OR STRONG CREEPING RED FESCUE PERENNIAL RYEGRASS KY. BLUEGRASS (BLENDS)	175 45 45	4 1 1	A	A[5]	O	A	A[5]	O	A-C	GENERAL LAWN/RECREATION.
14. TALL FESCUE KY. BLUEGRASS (BLENDS) PERENNIAL RYEGRASS (BLENDS)	265 20 20	6 .50 .50	A	A[5]	O	A	A[5]	O	A-B	ATHLETIC FIELD/ 3 CULTIVAR MIX OF TURFGRASS/ BLUEGRASS.
15. HARD FESCUE CHEWINGS FESCUE STRONG CREEPING RED FESCUE PERENNIAL RYEGRASS	130 45 45 10	3 1 1 .25	A	A[5]	O	A	A[5]	O	C-D	LOW-MAINTENANCE FINE FESCUE LAWN MIX.
16. ROUGH BLUEGRASS STRONG CREEPING RED FESCUE	90 130	2 3	A	A[5]	O	A	A[5]	O	C-D	MOIST SHADE.
17. CREEPING BENTGRASS CREEPING RED FESCUE KAKAI SALTGRASS	45 45 45	1 1 1	A	A[5]	O	A	A[5]	O	B-D	USE BENTGRASS UNDER WETTER CONDITIONS. SALTGRASS WILL ONLY PERSISTENT UNDER SALINE CONDITIONS.
18. HARD OR SHEEPS FESCUE N.E. WILDFLOWER MIXTURE	25 12	0.60 0.35	O	A	O	O	A	O	C-D	REGIONAL WILDFLOWER MIX. NOT RECOMMENDED.
19. A. SMOOTH CORDGRASS B. SALTMEADOW CORDGRASS	VEG. VEG.					O	BEFORE JULY 1		D	PLANTED IN THE INTERTIDAL ZONE. PLANTED ABOVE MEAN HIGH TIDE.
20. AMERICAN BEACHGRASS COASTAL PANICGRASS	VEG. 30	0.45				O	BEFORE APRIL 1		D	COASTAL PANICGRASS SEED MIX MAY BE INTERSEEDED BETWEEN ROWS OF BEACHGRASS.
21. A. PURPLESTEM WILLOW B. DWARF WILLOW C. REDOSIER DOGWOOD D. SILKY DOGWOOD	VEG. VEG. VEG. VEG.		BEFORE MAY 10		BEFORE MAY 10		BEFORE MAY 1		D	ALSO REFER TO CHAPTER 10 AND 18 OF USDA NRCS ENGINEERING FIELD HANDBOOK

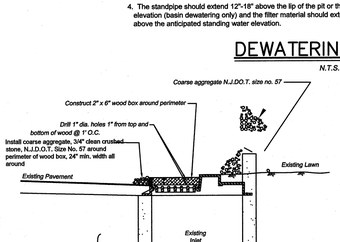


Construction Specifications

1. Pit dimensions are variable with the minimum diameter being two(2) times the standpipe diameter.
2. The standpipe should be constructed by perforating a 12"-24" diameter corrugated or PVC pipe. Then wrapping with the ½" hardware slits or 1" diameter holes.
3. A base filter material consisting of clean gravel or ASTM C 33 stone should be placed in the pit to a depth of 12". After installing the standpipe, the pit surrounding the standpipe should then be backfilled with the same filter material.
4. The standpipe should extend 12"-18" above the lip of the pit or the riser crest elevation (basin dewatering only) and the filter material should extend 3" minimum above the anticipated standing water elevation.

DEWATERING DETAIL

N.T.S.



INLET SILTATION PROTECTION DETAIL

INLET FILTER

N.T.S.

DUST CONTROL

A. MULCHES – SEE STANDARD OF STABILIZATION WITH MULCHES.

B. VEGETATIVE COVER – SEE STANDARDS FOR: TEMPORARY VEGETATIVE COVER, PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION AND PERMANENT STABILIZATION WITH SOD.

C. SPRAY ON ADHESIVES– ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS.

D. TILLAGE – TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL–TYPE PLOWS SPACED ABOUT 12 INCHES APART AND SPRING–TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.

E. SPRINKLING – SITE IS SPRINKLED UNTIL THE SURFACE IS WET.

F. BARRIERS – SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.

G. CALCIUM CHLORIDE – SHALL BE IN THE FORM OF LOOSE, DRY GRANULES OR FLAKES FINE ENOUGH TO FEED THROUGH COMMONLY USED SPREADERS AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. IF USED ON STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS OR ACCUMULATION AROUND PLANTS.

H. STONE – COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

Table 16-1 Dust Control Materials

MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS/ACRE
Anionic asphalt emulsion	7:1	Coarse Spray	1200
Latex emulsion	12.5:1	Fine Spray	235
Resin in water	4:1	Fine Spray	300
Polyacrylamide (PAM) - spray on Polyacrylamide (PAM) - dry spread	Apply according to manufacturer's instructions. May also be used as an additive to sediment basins to flocculate and precipitate suspended colloids. See Sediment Basin standard, p. 26-1		
Acidulated Soy Bean Soap Stick	None	Coarse Spray	1200

TEMPORARY VEGETATIVE STABILIZATION GRASSES, SEEDING RATES, DATES AND DEPTH

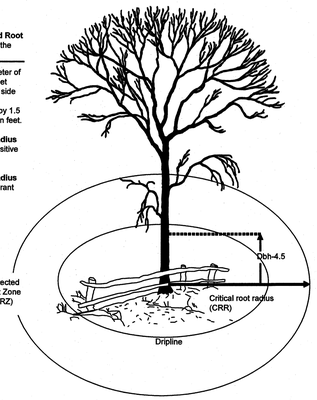
SEED SELECTIONS	SEEDING RATE [1] (POUNDS)		OPTIMUM SEEDING DATE [2] BASED ON PLANT HARDINESS ZONE			OPTIMUM SEED DEPTH [4] (INCHES)
	PER ACRE	PER 1000 SQ. FT	ZONE 5B, 6A	ZONE 6B	ZONE 7A, 7B	
COOL SEASON GRASSES						
1. PERENNIAL RYEGRASS	100	1.0	3/15 - 6/1 9/1 - 9/15	3/1 - 5/15 8/15 - 10/15	2/15 - 5/1 8/15 - 10/15	0.5
2. SPRING OATS	86	2.0	3/15 - 6/1 8/1 - 9/15	3/1 - 5/15 8/15 - 10/1	2/15 - 5/1 8/15 - 10/15	1.0
3. WINTER BARLEY	96	2.2	8/1 - 9/15	8/15 - 10/1	8/15 - 10/15	1.0
4. ANNUAL RYEGRASS	100	1.0	3/15 - 6/1 8/1 - 9/15	3/15 - 6/1 8/1 - 9/15	2/15 - 5/1 8/15 - 10/15	0.5
5. WINTER CEREAL RYE	112	2.6	8/1 - 11/1	8/1 - 11/15	8/1 - 12/15	1.0
WARM SEASON GRASSES						
6. PEARL MILLET	20	0.5	6/1 - 8/1	5/15 - 8/15	5/1 - 9/1	1.0
MILLET (GERMAN OR HUNGARIAN)	30	0.7	6/1 - 8/1	5/15 - 8/15	5/1 - 9/1	1.0

Estimate a tree's Protected Root Zone (PRZ) by calculating the Critical Root Radius(crr).

1. Measure the dbh (diameter of tree at breast height, 4.5 feet above ground on the uphill side of tree) in inches.
2. Multiply measured dbh by 1.5 or 1.0. Express the result in feet.

Dbh x 1.5: **Critical root radius** for older, unhealthy, or sensitive species.

Dbh x 1.0: **Critical root radius** for younger, healthy or tolerant species.



ROOT PROTECTION

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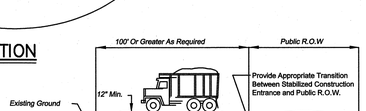
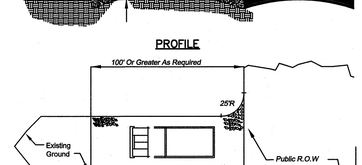


PROFILE



PLAN

1-1/2" to 2" Crushed Stone, Underlain With a Suitable Synthetic Sediment Filter Fabric and Maintained at all Construction Entrances

STABILIZED CONSTRUCTION ENTRANCE

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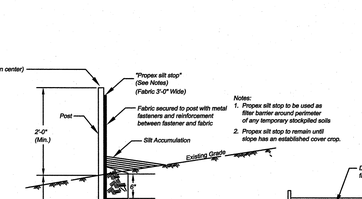


Notes:
1. Propex silt stop to be used as filter barrier around perimeter of any temporary stockpiled soils
2. Propex silt stop to remain until slope has an established cover crop.

SILT STOP SEDIMENT BARRIER DETAIL

N.T.S.

ACID SOILS MITIGATION METHODS AND MATERIALS

1. LIMIT THE EXCAVATION AREA AND EXPOSURE TIME WHEN HIGH ACID–PRODUCING SOILS ARE ENCOUNTERED.
2. TOPSOIL STRIPPED FROM THE SITE SHALL BE STORED SEPARATELY FROM TEMPORARILY STOCKPILED HIGH ACID–PRODUCING SOILS.
3. STOCKPILES OF HIGH ACID–PRODUCING SOIL SHOULD BE LOCATED ON LEVEL LAND TO MINIMIZE ITS MOVEMENT, ESPECIALLY WHEN THIS MATERIAL HAS A HIGH CLAY CONTENT.
4. TEMPORARILY STOCKPILED HIGH ACID–PRODUCING SOIL MATERIAL TO BE STORED MORE THAN 48 HOURS SHOULD BE COVERED WITH PROPERLY ANCHORED, HEAVY GRADE SHEETS OF POLYETHYLENE WHERE POSSIBLE. IF NOT POSSIBLE, STOCKPILES SHALL BE COVERED WITH A MINIMUM OF 3 TO 6 INCHES OF WOOD CHIPS TO MINIMIZE EROSION OF THE STOCKPILE. SILT FENCE SHALL BE INSTALLED AT THE TOE OF THE SLOPE TO CONTAIN MOVEMENT OF THE STOCKPILED MATERIAL. TOPSOIL SHALL NOT BE APPLIED TO THE STOCKPILES TO PREVENT TOPSOIL CONTAMINATION WITH HIGH ACID–PRODUCING SOIL.
5. HIGH ACID–PRODUCING SOILS WITH A PH OF 4.0 OR LESS OR CONTAINING IRON SULFIDE (INCLUDING BORROW FROM CUTS OR DREDGED SEDIMENT) SHALL BE ULTIMATELY PLACED OR BURIED WITH LIMESTONE APPLIED AT THE RATE OF 10 TONS PER ACRE (OR 450 POUNDS PER 1,000 SQUARE FEET OF SURFACE AREA) AND COVERED WITH A MINIMUM OF 12 INCHES OF SETTLED SOIL WITH A PH OF 5.0 OR MORE EXCEPT AS FOLLOWS:
   a. AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF 24 INCHES OF SOIL WITH A PH OF 5 OR MORE.
   b. DISPOSAL AREAS SHALL NOT BE LOCATED WITHIN 24 INCHES OF ANY SURFACE OF A SLOPE OR BANK, SUCH AS BERMS, STREAM BANKS, DITCHES, AND OTHERS, TO PREVENT POTENTIAL LATERAL LEACHING DAMAGES.
6. EQUIPMENT USED FOR MOVEMENT OF HIGH ACID–PRODUCING SOILS SHOULD BE CLEANED AT THE END OF EACH DAY TO PREVENT SPREADING OF HIGH ACID–PRODUCING SOIL MATERIALS TO OTHER PARTS OF THE SITE, INTO STREAMS OR STORMWATER CONVEYANCES, AND TO PROTECT MACHINERY FROM ACCELERATED RUSTING.
7. NON–VEGETATIVE EROSION CONTROL PRACTICES (STONE TRACKING PADS, STRATEGICALLY PLACED LIMESTONE CHECK DAM, SEDIMENT BARRIER, WOOD CHIPS) SHOULD BE INSTALLED TO LIMIT THE MOVEMENT OF HIGH ACID–PRODUCING SOILS FROM, AROUND, OR OFF THE SITE.
8. FOLLOWING BURIAL OR REMOVAL OF HIGH ACID–PRODUCING SOIL, TOPSOILING AND SEEDING OF THE SITE (SEE TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION, PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION, AND TOPSOILING), MONITORING MUST CONTINUE FOR A MINIMUM OF 6 MONTHS TO ENSURE THERE IS ADEQUATE STABILIZATION AND THAT NO HIGH ACID–PRODUCING SOIL PROBLEMS EMERGE. IF PROBLEMS STILL EXIST, THE AFFECTED AREA MUST BE TREATED AS INDICATED ABOVE TO CORRECT THE PROBLEM.

TEMPORARY SEEDBED PREPARATIONS

A. APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO–OPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10–20–10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS IF OTHERWISE INDICATES OTHERWISE. CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND LEGUMES.

B. WORK LIME AND FERTILIZER INTO SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING–TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED.

C. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED IN ACCORDANCE WITH THE ABOVE.

D. SOILS HIGH IN SULFIDES OR HAVING A pH OF 4 OR LESS REFER TO STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, PG 1–1.

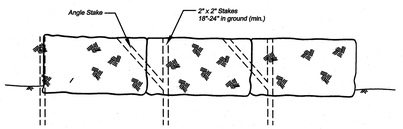
SITE PREPARATION

A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARD FOR LAND GRADING.

B. IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SUBSOIL SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH STANDARD FOR LAND GRADING.

C. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES. TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH THE STANDARD FOR TOPSOILING.

D. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE–STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.



STRAW BALE SILTATION DIKE DETAIL

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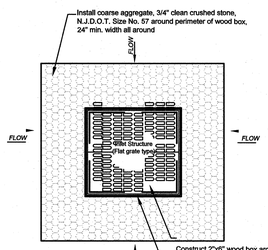


CONSTRUCTION NOTES:
Inlet siltation protection to remain until completion of final grading and establishment of cover. Also, periodic checks must be made after each rainfall to excavate and remove excess sediment from around inlets.

PLAN

SOIL EROSION AND SEDIMENT CONTROL NOTES:

1. THE FREEHOLD SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED FORTY–EIGHT (48) HOURS IN ADVANCE OF ANY SOIL DISTURBING ACTIVITY.
2. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
3. 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.
4. N.J.S.A. 4:24–39 ET SEQ. REQUIRES THAT NO CERTIFICATES OF OCCUPANCY BE ISSUED BEFORE THE DISTRICT DETERMINES THAT A PROJECT OR PORTION THEREOF IS IN FULL COMPLIANCE WITH THE CERTIFIED PLAN AND STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY AND A REPORT OF COMPLIANCE HAS BEEN ISSUED. UPON WRITTEN REQUEST FROM THE APPLICANT, THE DISTRICT MAY ISSUE A REPORT OF COMPLIANCE WITH CONDITIONS ON A LOT–BY–LOT OR SECTION–BY–SECTION BASIS, PROVIDED THAT THE PROJECT OR PORTION THEREOF IS IN SATISFACTORY COMPLIANCE WITH THE SEQUENCE OF DEVELOPMENT AND TEMPORARY MEASURES FOR SOIL EROSION AND SEDIMENT CONTROL HAVE BEEN IMPLEMENTED, INCLUDING PROVISIONS FOR STABILIZATION AND SITE WORK.
5. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN SIXTY (60) 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 AREAS WILL BE MULCHED WITH STRAW OR EQUIVALENT MATERIAL, AT A RATE OF 2 TO 2 1/2 TONS PER ACRE, ACCORDING TO STATE STANDARDS FOR STABILIZATION WITH MULCH ONLY.
6. 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, AND A MULCH ANCHOR, IN ACCORDANCE WITH STATE STANDARDS.
7. A SUB–BASE COURSE SHALL 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.
8. 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.
9. ALL SOIL WASHED, DROPPED, SPILLED OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHT–OF–WAYS WILL BE REMOVED IMMEDIATELY.
10. PERMANENT VEGETATION IS TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING.
11. AT THE TIME THAT 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 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.
12. IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, ANY SOIL HAVING A PH OF 4.0 OR LESS OR CONTAINING IRON SULFIDES SHALL BE ULTIMATELY PLACED OR BURIED WITH LIMESTONE APPLIED AT THE RATE OF 10 TONS/ACRE, (OR 450 LBS/1,000 SQ FT OF SURFACE AREA) AND COVERED WITH A MINIMUM OF 12" OF SETTLED SOIL WITH A pH OF 5 OR MORE, OR 24" WHERE TREES OR SHRUBS ARE TO BE PLANTED.
13. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
14. 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 STANDARDS FOR DEWATERING.
15. 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.
16. 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.
17. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE #6.
18. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORM WATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.

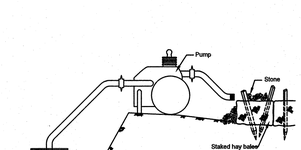
ADDITIONAL NOTES

1. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES TO BE 3:1.
2. HAY BALES OR SEDIMENT CONTROL FABRIC TO BE PLACED IF EROSION BECOMES EVIDENT DURING CONSTRUCTION.
3. TO PREVENT LARGE BILLOWS DOWNHILL DURING CONSTRUCTION, TEMPORARY MOUNTABLE STONE BERMS MAY BE INSTALLED, SHOULD FIELD CONDITIONS WARRANT WHICH WILL NOT IMPEDE ACCESS FOR THE RESIDENTS AND EMERGENCY VEHICLES.
4. THE CONTRACTOR WILL BE RESPONSIBLE FOR IMPLEMENTING ANY AND ALL SOIL EROSION AND SEDIMENT CONTROL PROCEDURES DEEMED NECESSARY BY THE FREEHOLD SOIL CONSERVATION DISTRICT OFFICE AGENTS DURING THE COURSE OF CONSTRUCTION.

SEQUENCE OF CONSTRUCTION:

THIS PROJECT SHALL CONSIST ESSENTIALLY OF THE RESURFACING OF EXISTING ROADWAYS INCLUDING THE INSTALLATION OF HOT MIX ASPHALT PAVEMENT, CONCRETE CURB, CONCRETE SIDEWALK AND DRIVEWAY AND LANDSCAPING RESTORATION. THE CONSTRUCTION SHOULD PROCEED IN THE FOLLOWING MANNER:

1. INSTALLATION OF ALL SEDIMENT AND EROSION CONTROL DEVICES THAT CAN BE PLACED PRIOR TO ANY MAJOR SOIL DISTURBANCES.
2. CLEAR AND REMOVE ALL EXISTING VEGETATION IN THOSE AREAS WHERE NECESSARY. ALL REMAINING VEGETATION TO BE PROPERLY PROTECTED AND TO REMAIN IN ITS NATURAL STATE.
3. IMMEDIATE INSTALLATION OF ALL REMAINING SEDIMENT AND EROSION CONTROL DEVICES.
4. RECONSTRUCTION OF EXISTING CURBS, SIDEWALKS, AND DRIVEWAY APRONS.
5. FINE–GRADE PAVEMENT RESTORATION AREAS.
6. BASE COURSE PAVEMENTS TO BE APPLIED IMMEDIATELY FOLLOWING INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE PAVEMENT AREAS.
7. FINE–GRADE REMAINDER OF SITE AND STABILIZE WITH PERMANENT VEGETATIVE COVER AND LANDSCAPING.
8. CONSTRUCTION OF HOT MIX ASPHALT SURFACE COURSE PAVEMENT.
9. REMOVAL OF APPROPRIATE TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES.

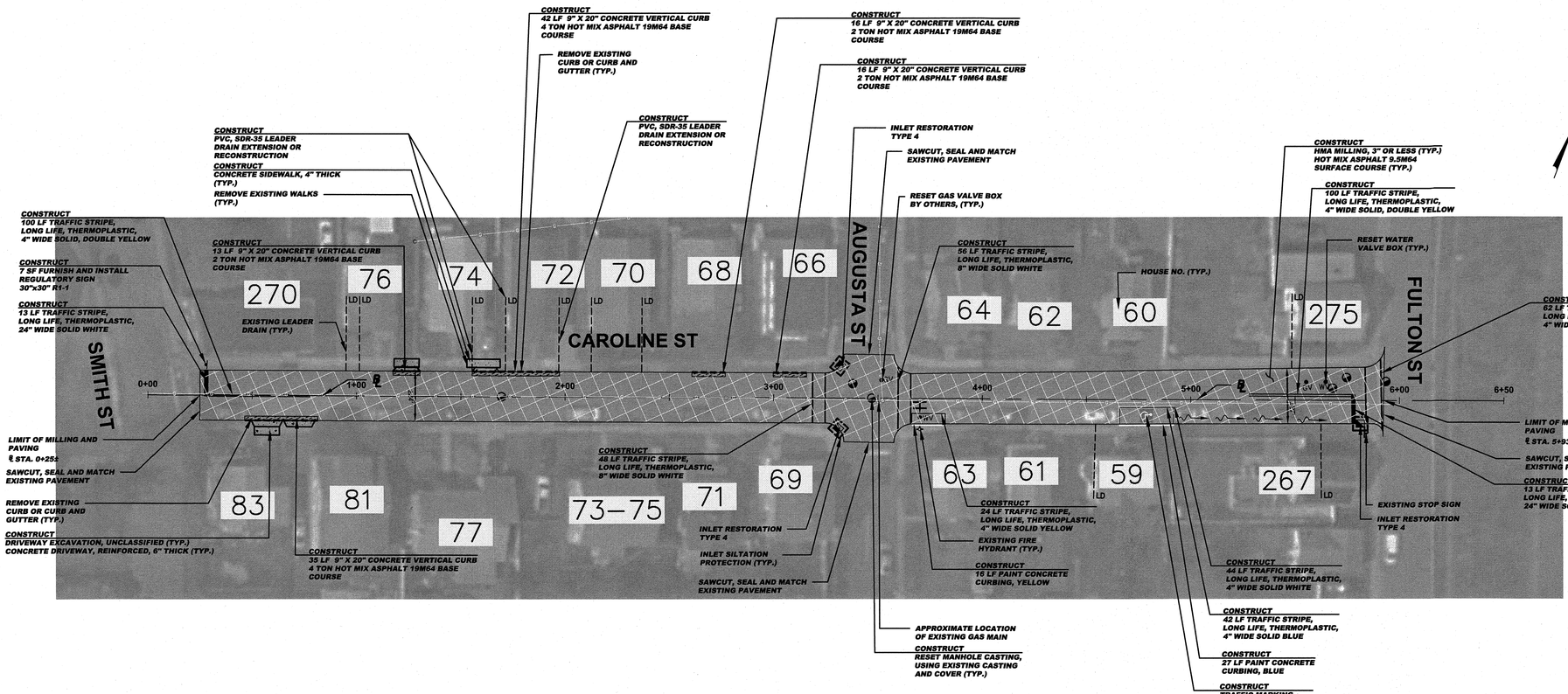


DEWATERING DETAIL

N.T.S.

PERMANENT SEEDBED PREPARATIONS

A. UNIFORMLY APPLY GROUND LIMESTONE AND FERTILIZER TO TOPSOIL WHICH HAS BEEN SPREAD AND FIRMED, ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO–OPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES (HTTP://NJAES.RUTGERS.EDU/COUNTY/). FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10–10–10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE AND INCORPORATED INTO THE SURFACE 4 INCHES. IF FERTILIZER IS NOT INCORPORATED, APPLY ONE–HALF THE RAT



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

CONSTRUCT (CAROLINE STREET)

9	CY	DRIVEWAY EXCAVATION, UNCLASSIFIED
1613	SY	HMA MILLING, 3" OR LESS
1937	LF	POLYMERIZED JOINT ADHESIVE
115	LF	PREPARE & SEAL EXISTING JOINTS & CRACKS IN ASPHALT PAVEMENT
247	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
14	TON	HOT MIX ASPHALT 19M64 BASE COURSE
3	UN	PVC, SDR-35 LEADER DRAIN EXTENSION OR RECONSTRUCTION
6	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
3	UN	RESET EXISTING CASTING
2	SY	CONCRETE SIDEWALKS, 4" THICK
31	SY	CONCRETE DRIVEWAYS AND APRONS, 6" THICK
122	LF	9" X 20" CONCRETE VERTICAL CURB
43	LF	PAINT CONCRETE CURBING, YELLOW
313	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
166	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
27	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
29	SF	TRAFFIC MARKINGS, THERMOPLASTIC
7	SF	REGULATORY AND WARNING SIGNS
2	UN	RESET WATER VALVE BOX
2	UN	RESET GAS VALVE BOX
68	SY	TOPSOILING, 4" THICK
68	SY	FERTILIZING AND SEEDING
68	SY	TOPSOIL STABILIZATION, TYPE 2MAT

SPECIAL PROVISIONS

THE CONTRACTOR IS SPECIFICALLY DIRECTED TO THE REQUIREMENTS CONTAINED IN THE SPECIAL PROVISIONS SECTION OF THE CONTRACT SPECIFICATIONS.

PROPOSED CURB AND/OR ROADWAY REPLACEMENT

THE CONTRACTOR IS ADVISED THAT THEIR LICENSED LAND SURVEYOR SHALL PROVIDE THE CONSTRUCTION STAKEOUT FOR THE PROJECT AND THAT IS THE INTENT OF THE CONTRACT DOCUMENTS TO INSTALL THE NEW CURB, EDGE OF PAVEMENT, AND ROADWAY AT ITS PRESENT HORIZONTAL LOCATION AND VERTICAL LOCATION EXCEPT WHERE PROPOSED GRADES HAVE BEEN INDICATED ON THE PLAN. ACCORDINGLY, THE FULL RESPONSIBILITY FOR KEEPING AND MAINTAINING THE EXISTING ALIGNMENT AND GRADE PRIOR TO REMOVAL OF THE EXISTING CURB AND MILLING AND/OR EXCAVATION OF THE PAVEMENT SHALL REST UPON THE CONTRACTOR IN ACCORDANCE WITH DIVISION 1 GENERAL REQUIREMENTS SECTION 1-4.4 OF THE PROJECT SPECIFICATIONS.

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
- DENOTES RECONSTRUCT INLET
- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
- DENOTES APPROXIMATE LOCATION OF EXISTING HIGH POINT
- DENOTES APPROXIMATE LOCATION OF EXISTING LOW POINT
- DENOTES TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC WITH GLASS BEADS, FOR FIRE HYDRANT
- DENOTES PAINT CONCRETE CURBING, YELLOW
- DENOTES BENCH MARK LOCATION
- DENOTES EXISTING TREES OR STUMPS TO BE REMOVED
- DENOTES RESET BRICKWALK/ PAVERS
- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
- DENOTES CONCRETE DRIVEWAY RESTORATION
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE EXCAVATION) AND PAVING WITH 19M64 BASE COURSE
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE TEMPORARY TRENCH REPAIR)
- DENOTES PROPOSED CONCRETE SIDEWALK AND DRIVEWAY APRON
- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE AND 3" HOT MIX ASPHALT 19M64 BASE COURSE
- DENOTES AREA TO BE MILLED AND RECEIVE MIN. 2" HMA 9.5M64 SURFACE COURSE
- DENOTES AREA TO BE MILLED, EXISTING CRACK TO BE CLEANED AND SEALED, AND GEO COMPOSITE MATERIAL TO BE INSTALLED
- DENOTES AREA TO BE EXCAVATED UP TO 9" AND RECEIVE HMA 19M64 BASE COURSE
- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE 7" HOT MIX ASPHALT 19M64 BASE COURSE 6" DENSE GRADED AGGREGATE BASE COURSE
- DENOTES ROADWAY TRENCH REPAIR AREA 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE 7" HOT MIX ASPHALT 19M64 BASE COURSE 6" DENSE GRADED AGGREGATE BASE COURSE

No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – CAROLINE STREET

WARD 1

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
(732) 727 8000 (732) 462 7400
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

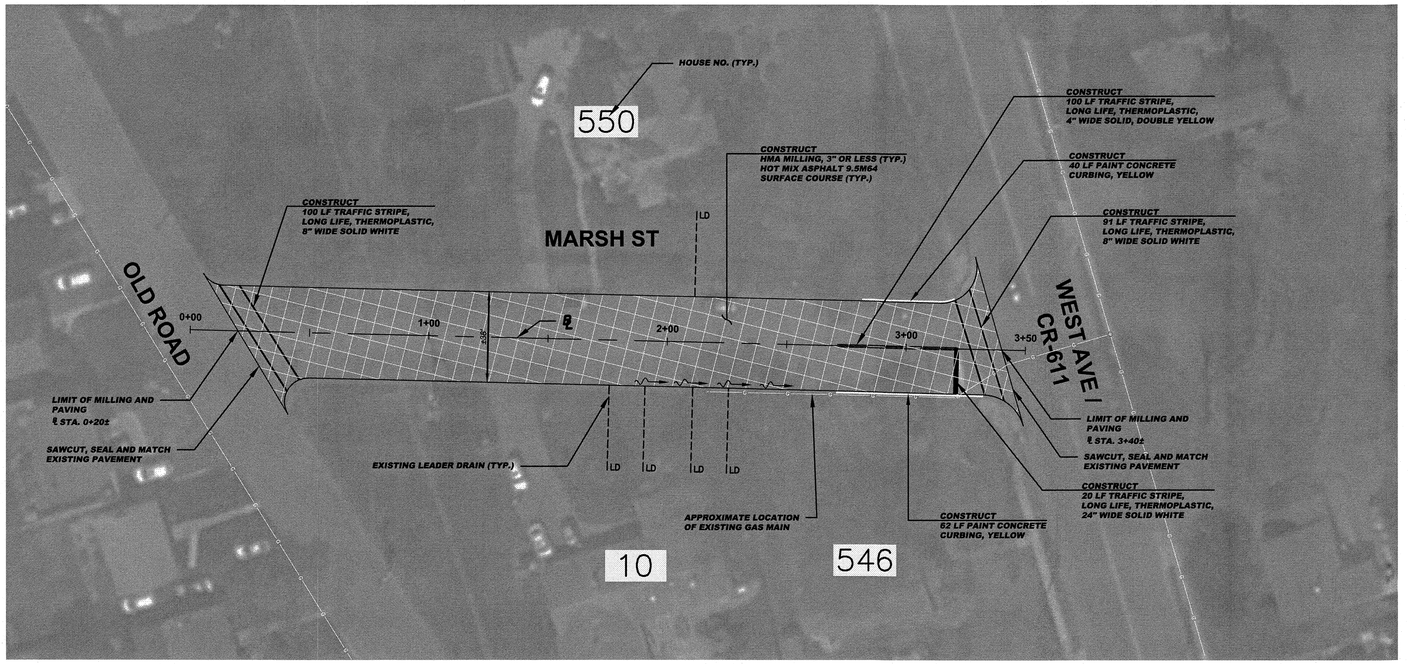
GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.23

SCALE	As Shown
DATE	May 2024
DRAWN BY	AW
DESIGNED BY	AW/PD
CHECKED BY	GO
SHEET	4 of 77

REGISTER NO.

FILE NO. PWB0A615.01

DRAWING NUMBER C-1 C-52



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft.

CONSTRUCT (MARSH STREET)

1375	SY	HMA MILLING, 3" OR LESS
1250	LF	POLYMERIZED JOINT ADHESIVE
143	LF	PREPARE & SEAL EXISTING JOINTS & CRACKS IN ASPHALT PAVEMENT
194	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
102	LF	PAINT CONCRETE CURBING, YELLOW
100	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
191	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
20	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE

SPECIAL PROVISIONS

THE CONTRACTOR IS SPECIFICALLY DIRECTED TO THE REQUIREMENTS CONTAINED IN THE SPECIAL PROVISIONS SECTION OF THE CONTRACT SPECIFICATIONS.

PROPOSED CURB AND/OR ROADWAY REPLACEMENT

THE CONTRACTOR IS ADVISED THAT THEIR LICENSED LAND SURVEYOR SHALL PROVIDE THE CONSTRUCTION STAKEOUT FOR THE PROJECT AND THAT IS THE INTENT OF THE CONTRACT DOCUMENTS TO INSTALL THE NEW CURB, EDGE OF PAVEMENT, AND ROADWAY AT ITS PRESENT HORIZONTAL LOCATION AND VERTICAL LOCATION EXCEPT WHERE PROPOSED GRADES HAVE BEEN INDICATED ON THE PLAN. ACCORDINGLY, THE FULL RESPONSIBILITY FOR KEEPING AND MAINTAINING THE EXISTING ALIGNMENT AND GRADE PRIOR TO REMOVAL OF THE EXISTING CURB AND MILLING AND/OR EXCAVATION OF THE PAVEMENT SHALL REST UPON THE CONTRACTOR IN ACCORDANCE WITH DIVISION 1 GENERAL REQUIREMENTS SECTION 1-4.4 OF THE PROJECT SPECIFICATIONS.

BASELINES

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INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
- DENOTES RECONSTRUCT INLET
- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
- DENOTES APPROXIMATE LOCATION OF EXISTING HIGH POINT
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- DENOTES TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC WITH GLASS BEADS, FOR FIRE HYDRANT
- DENOTES PAINT CONCRETE CURBING, YELLOW
- DENOTES BENCH MARK LOCATION
- DENOTES EXISTING TREES OR STUMPS TO BE REMOVED
- DENOTES RESET BRICKWALK/ PAVERS
- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
- DENOTES CONCRETE DRIVEWAY RESTORATION
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE EXCAVATION) AND PAVING WITH 19M64 BASE COURSE
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE TEMPORARY TRENCH REPAIR)
- DENOTES PROPOSED CONCRETE SIDEWALK AND DRIVEWAY APRON
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No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – MARSH STREET

WARD 1

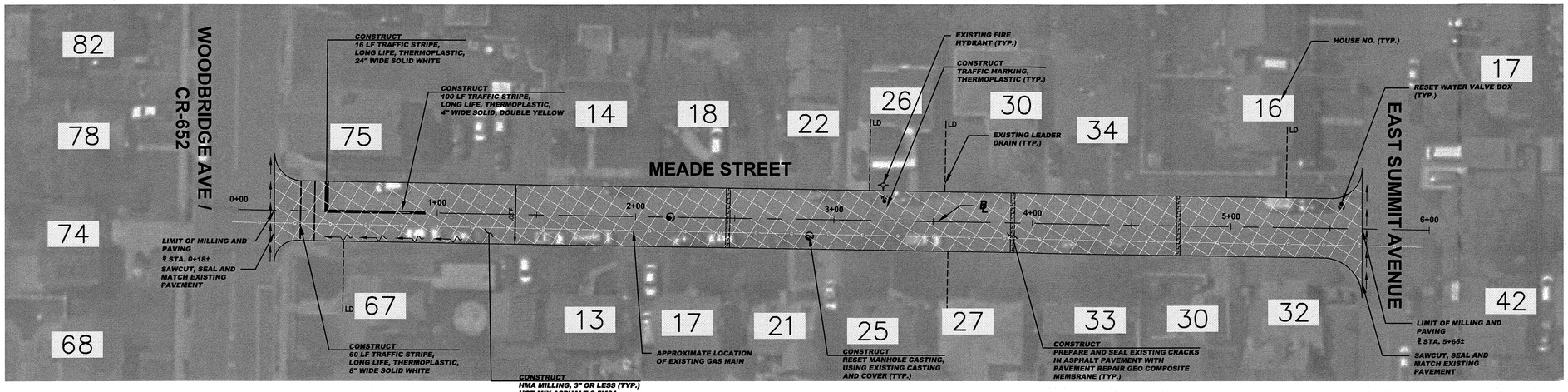
CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 (732) 727 8000
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194 (732) 462 7400

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
DRAWN BY	AW
DESIGNED BY	AW/PD
CHECKED BY	GO
SHEET	5 of 77

REGISTER NO. PWB0A615.01

DRAWING NUMBER C-2 / C-52



CONSTRUCT (MEADE STREET)

1850	SY	HMA MILLING, 3" OR LESS
1963	LF	POLYMERIZED JOINT ADHESIVE
120	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT
90	LF	PREPARE AND SEAL EXISTING TRANSVERSE CRACKS IN ASPHALT PAVEMENT WITH PAVEMENT REPAIR GEO COMPOSITE MEMBRANE
273	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
2	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
100	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
60	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
16	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
6	SF	TRAFFIC MARKINGS, THERMOPLASTIC
2	UN	RESET WATER VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

SPECIAL PROVISIONS

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BASELINES

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INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
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- DENOTES TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC WITH GLASS BEADS, FOR FIRE HYDRANT
- DENOTES PAINT CONCRETE CURBING, YELLOW
- DENOTES BENCH MARK LOCATION
- DENOTES EXISTING TREES OR STUMPS TO BE REMOVED
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No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – MEADE STREET

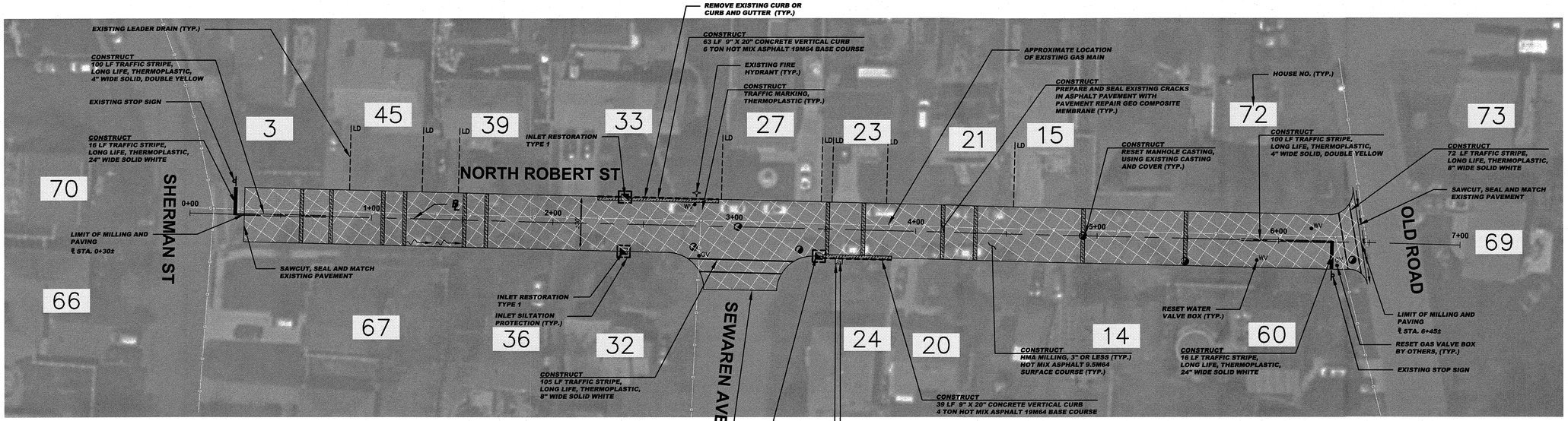
WARD 1

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
(732) 727 8000 (732) 462 7400
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
DRAWN BY	AW
DESIGNED BY	AW/PD
CHECKED BY	
SHEET	6 of 77

REGISTER NO.
FILE NO. PWB0A615.01
DRAWING NUMBER C-3
C-52



CONSTRUCT (NORTH ROBERT STREET)

2171	SY	HMA MILLING, 3" OR LESS
2152	LF	POLYMERIZED JOINT ADHESIVE
125	LF	PREPARE & SEAL EXISTING JOINTS & CRACKS IN ASPHALT PAVEMENT
360	LF	PREPARE AND SEAL EXISTING TRANSVERSE CRACKS IN ASPHALT PAVEMENT WITH PAVEMENT REPAIR GEO COMPOSITE MEMBRANE
318	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
10	TON	HOT MIX ASPHALT 19M64 BASE COURSE
6	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
3	UN	RESET EXISTING CASTING
3	UN	CURB PIECE TYPE "N-ECO"
1	UN	BICYCLE SAFE GRATE
2	SY	CONCRETE SIDEWALKS, 4" THICK
102	LF	9"X20" CONCRETE VERTICAL CURB
200	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
177	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
32	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
6	SF	TRAFFIC MARKINGS, THERMOPLASTIC
3	UN	RESET WATER VALVE BOX
2	UN	RESET GAS VALVE BOX
57	SY	TOPSOILING, 4" THICK
57	SY	FERTILIZING AND SEEDING
57	SY	TOPSOIL STABILIZATION, TYPE 1 MAT

SPECIAL PROVISIONS

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PROPOSED CURB AND/OR ROADWAY REPLACEMENT

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GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft.

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
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No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – NORTH ROBERT STREET

WARD 1

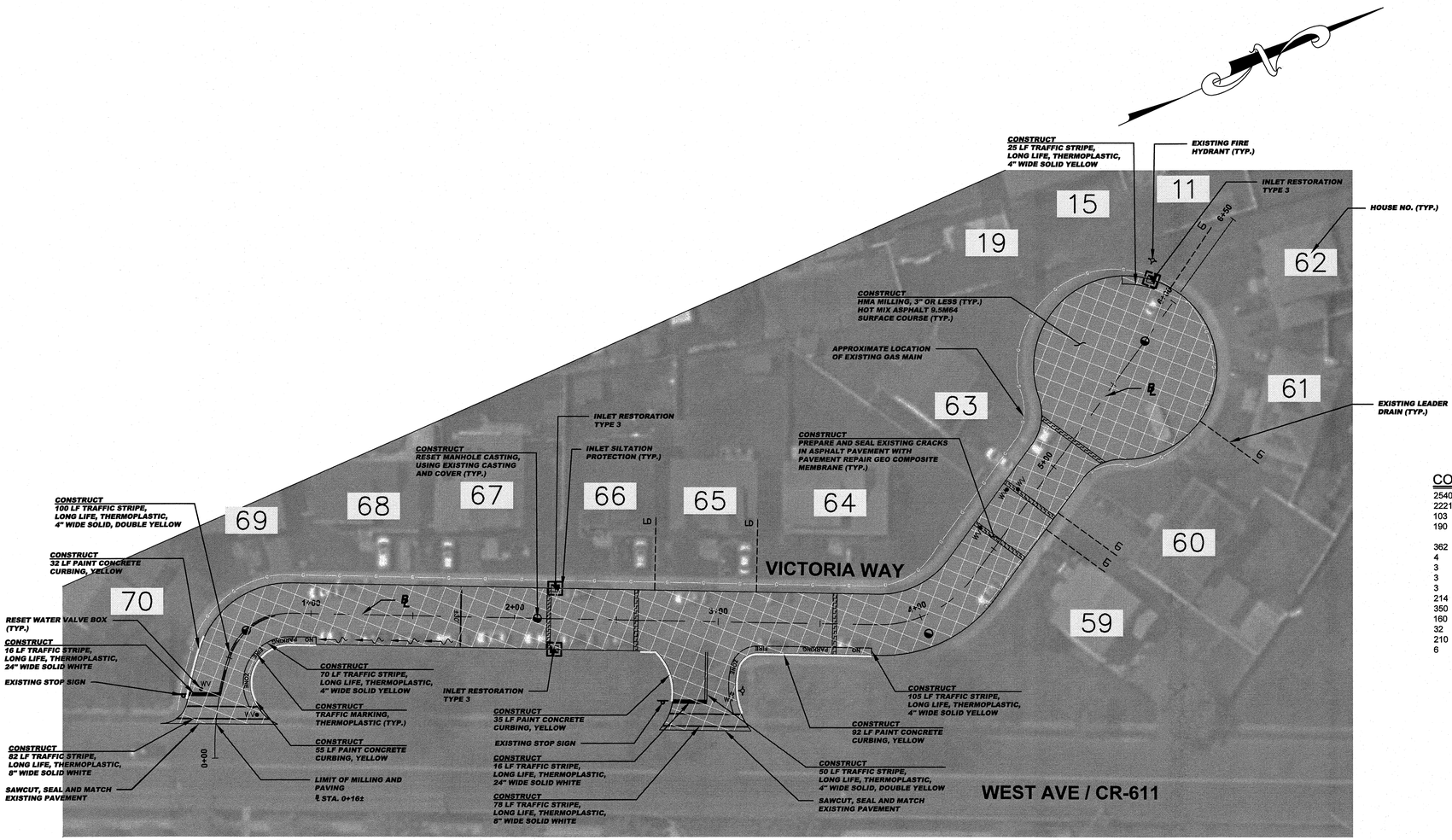
CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
(732) 727 8000 (732) 462 7400
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
DRAWN BY	AW
DESIGNED BY	AW/PD
CHECKED BY	GO
SHEET	7 of 77

MIDDLETON NO. PWB0A615.01

DRAWING NUMBER C-4 / C-52



CONSTRUCT (VICTORIA WAY)

2540	SY	HMA MILLING, 3" OR LESS
2221	LF	POLYMERIZED JOINT ADHESIVE
103	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT
190	LF	PREPARE AND SEAL EXISTING TRANSVERSE CRACKS IN ASPHALT PAVEMENT WITH PAVEMENT REPAIR GEO COMPOSITE MEMBRANE
362	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
4	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
3	UN	RESET EXISTING CASTING
3	UN	CURB PIECE TYPE "N-ECO"
3	UN	BICYCLE SAFE GRATE
214	LF	PAINT CONCRETE CURBING
350	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
160	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
32	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
210	SF	TRAFFIC MARKINGS, THERMOPLASTIC
6	UN	RESET WATER VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

SPECIAL PROVISIONS

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PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
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- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
- DENOTES APPROXIMATE LOCATION OF EXISTING HIGH POINT
- DENOTES APPROXIMATE LOCATION OF EXISTING LOW POINT
- DENOTES TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC WITH GLASS BEADS, FOR FIRE HYDRANT
- DENOTES PAINT CONCRETE CURBING, YELLOW
- DENOTES BENCH MARK LOCATION
- DENOTES EXISTING TREES OR STUMPS TO BE REMOVED
- DENOTES RESET BRICKWALK/ PAVERS
- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
- DENOTES CONCRETE DRIVEWAY RESTORATION
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE EXCAVATION) AND PAVING WITH 19M64 BASE COURSE
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE TEMPORARY TRENCH REPAIR)
- DENOTES PROPOSED CONCRETE SIDEWALK AND DRIVEWAY APRON
- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE AND 3" HOT MIX ASPHALT 19M64 BASE COURSE
- DENOTES AREA TO BE MILLED AND RECEIVE MIN. 2" HMA 9.5M64 SURFACE COURSE
- DENOTES AREA TO BE MILLED, EXISTING CRACK TO BE CLEANED AND SEALED, AND GEO COMPOSITE MATERIAL TO BE INSTALLED
- DENOTES AREA TO BE EXCAVATED UP TO 9" AND RECEIVE HMA 19M64 BASE COURSE
- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE 7" HOT MIX ASPHALT 19M64 BASE COURSE 6" DENSE GRADED AGGREGATE BASE COURSE
- DENOTES ROADWAY TRENCH REPAIR AREA 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE 7" HOT MIX ASPHALT 19M64 BASE COURSE 6" DENSE GRADED AGGREGATE BASE COURSE

No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – VICTORIA WAY

WARD 1

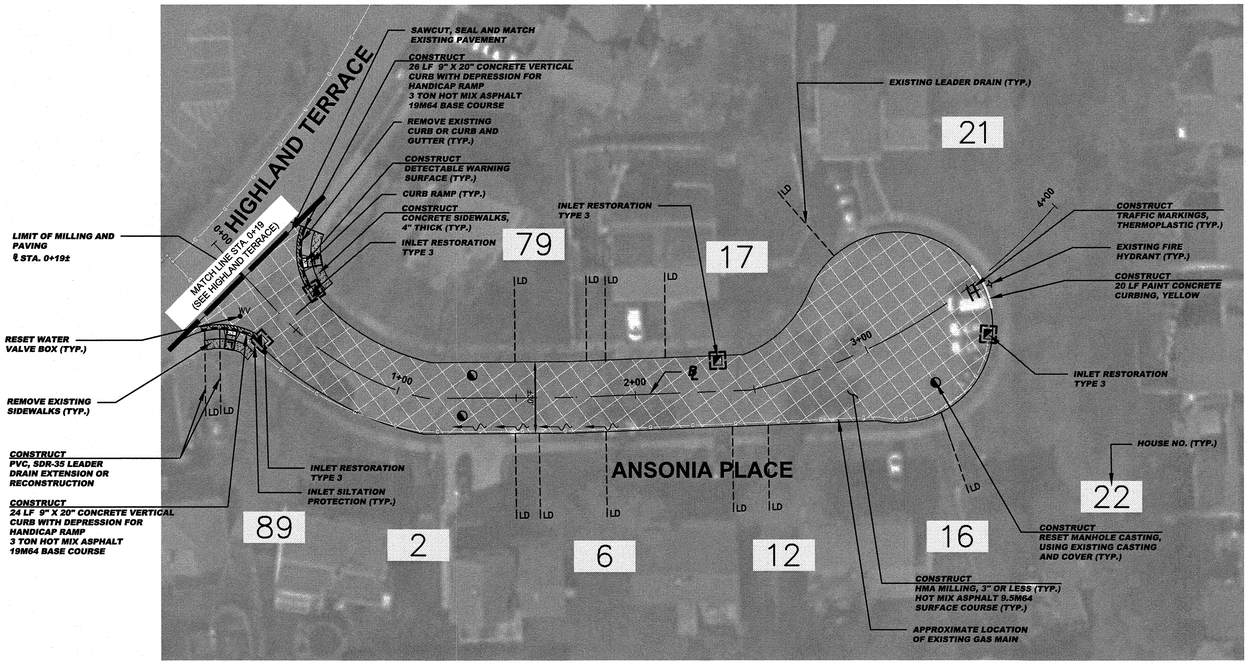
CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 (732) 727 8000
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194 (732) 462 7400

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
DRAWN BY	AW
DESIGNED BY	AW/PD
CHECKED BY	GO
SHEET	8 of 77

REGISTER NO. FILE NO. PWB0A615.01

DRAWING NUMBER C-5 / C-52



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

CONSTRUCT (ANSONIA PLACE)

1499	SY	HMA MILLING, 3" OR LESS
1289	LF	POLYMERIZED JOINT ADHESIVE
92	LF	PREPARE & SEAL EXISTING JOINTS & CRACKS IN ASPHALT PAVEMENT
211	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
6	TON	HOT MIX ASPHALT 19M64 BASE COURSE
2	UN	PVC, SDR-35 LEADER DRAIN EXTENSION OR RECONSTRUCTION
3	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
4	UN	RESET EXISTING CASTING
4	UN	CURB PIECE TYPE "N-ECO"
4	UN	BICYCLE SAFE GRATE
25	SY	CONCRETE SIDEWALKS, 4" THICK
2	SY	DETECTABLE WARNING SURFACE
50	LF	9" X 20" CONCRETE VERTICAL CURB
20	LF	PAINT CONCRETE CURBING, YELLOW
6	SF	TRAFFIC MARKINGS, THERMOPLASTIC
1	UN	RESET WATER VALVE BOX
28	SY	TOPSOILING, 4" THICK
28	SY	FERTILIZING AND SEEDING
28	SY	TOPSOIL STABILIZATION, TYPE 2MAT

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
- DENOTES RECONSTRUCT INLET
- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
- DENOTES APPROXIMATE LOCATION OF EXISTING HIGH POINT
- DENOTES APPROXIMATE LOCATION OF EXISTING LOW POINT
- DENOTES TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC WITH GLASS BEADS, FOR FIRE HYDRANT
- DENOTES PAINT CONCRETE CURBING, YELLOW
- DENOTES BENCH MARK LOCATION
- DENOTES EXISTING TREES OR STUMPS TO BE REMOVED
- DENOTES RESET BRICKWALK/ PAVERS
- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
- DENOTES CONCRETE DRIVEWAY RESTORATION
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE EXCAVATION) AND PAVING WITH 19M64 BASE COURSE
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE TEMPORARY TRENCH REPAIR)
- DENOTES PROPOSED CONCRETE SIDEWALK AND DRIVEWAY APRON
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SPECIAL PROVISIONS

THE CONTRACTOR IS SPECIFICALLY DIRECTED TO THE REQUIREMENTS CONTAINED IN THE SPECIAL PROVISIONS SECTION OF THE CONTRACT SPECIFICATIONS.

PROPOSED CURB AND/OR ROADWAY REPLACEMENT

THE CONTRACTOR IS ADVISED THAT THEIR LICENSED LAND SURVEYOR SHALL PROVIDE THE CONSTRUCTION STAKEOUT FOR THE PROJECT AND THAT IS THE INTENT OF THE CONTRACT DOCUMENTS TO INSTALL THE NEW CURB, EDGE OF PAVEMENT, AND ROADWAY AT ITS PRESENT HORIZONTAL LOCATION AND VERTICAL LOCATION EXCEPT WHERE PROPOSED GRADES HAVE BEEN INDICATED ON THE PLAN. ACCORDINGLY, THE FULL RESPONSIBILITY FOR KEEPING AND MAINTAINING THE EXISTING ALIGNMENT AND GRADE PRIOR TO REMOVAL OF THE EXISTING CURB AND MILLING AND/OR EXCAVATION OF THE PAVEMENT SHALL REST UPON THE CONTRACTOR IN ACCORDANCE WITH DIVISION 1 GENERAL REQUIREMENTS SECTION 1-4.4 OF THE PROJECT SPECIFICATIONS.

No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – ANSONIA PLACE

WARD 2

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28039000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 (732) 727 8000
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194 (732) 462 7400

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
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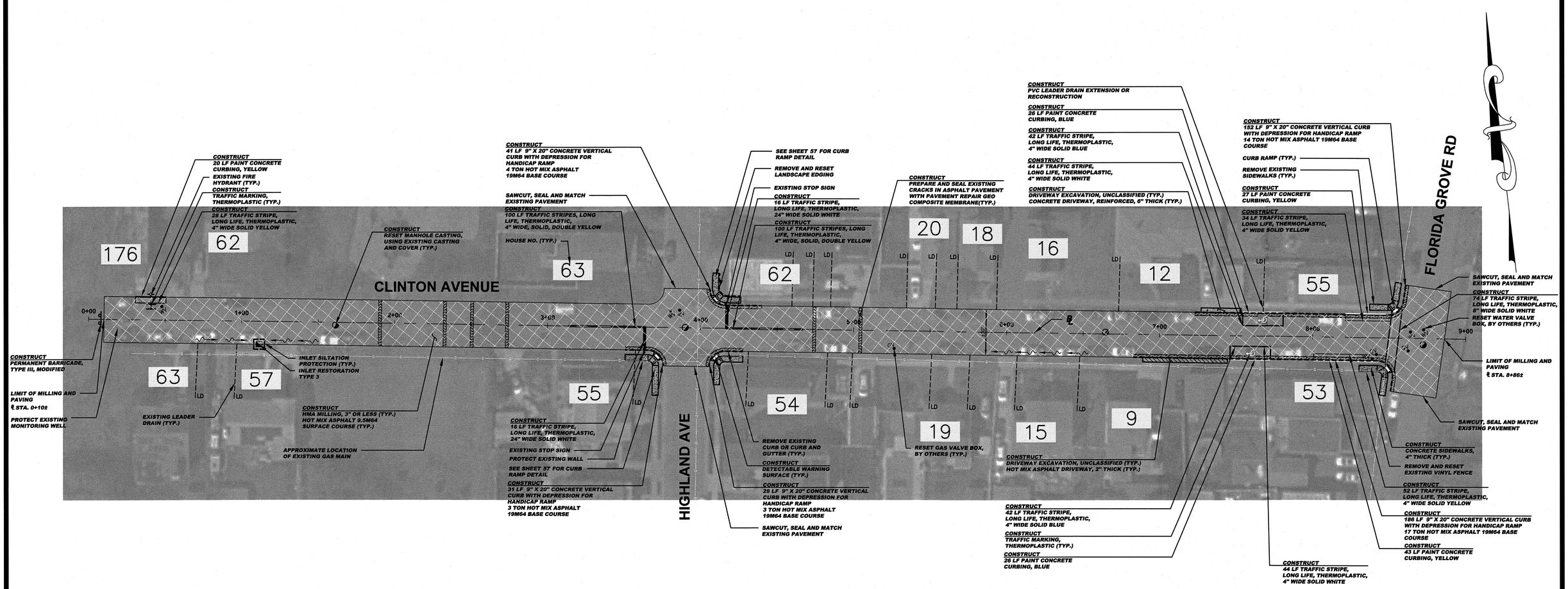
DESIGNED BY	AWPD
CHECKED BY	
SHEET	9 of 77

REGISTER NO. PW-BO-A615.01

DRAWING NUMBER C-6 C-52



CONSTRUCT (CLINTON AVENUE)

8	CY	DRIVEWAY EXCAVATION, UNCLASSIFIED
3138	SY	HMA MILLING, 3" OR LESS
3047	LF	POLYMERIZED JOINT ADHESIVE
120	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT
180	LF	PREPARE AND SEAL EXISTING TRANSVERSE CRACKS IN ASPHALT PAVEMENT WITH PAVEMENT REPAIR GEO COMPOSITE MEMBRANE
457	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
41	TON	HOT MIX ASPHALT 19M64 BASE COURSE
1	UN	PVC, SDR-35 LEADER DRAIN EXTENSION OR RECONSTRUCTION
4	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
1	UN	RESET EXISTING CASTING
1	UN	CURB PIECE, TYPE "N-ECO"
1	UN	BICYCLE SAFE GRATE
60	SY	CONCRETE SIDEWALKS, 4" THICK
9	SY	CONCRETE DRIVEWAYS AND APRONS, REINFORCED, 6" THICK
19	SY	HOT MIX ASPHALT DRIVEWAY RESTORATION, 2" THICK
5	SY	DETECTABLE WARNING SURFACE
438	LF	9"X20" CONCRETE VERTICAL CURB
142	LF	PAINT CONCRETE CURBING
482	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
74	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
32	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
34	SF	TRAFFIC MARKINGS, THERMOPLASTIC
1	UN	PERMANENT BARRICADE, TYPE III, MODIFIED
6	UN	RESET WATER VALVE BOX
3	UN	RESET GAS VALVE BOX
244	SY	TOPSOILING, 4" THICK
244	SY	FERTILIZING AND SEEDING
244	SY	TOPSOIL STABILIZATION, TYPE 2 MAT

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INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
- DENOTES RECONSTRUCT INLET
- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
- DENOTES APPROXIMATE LOCATION OF EXISTING HIGH POINT
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- DENOTES TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC WITH GLASS BEADS, FOR FIRE HYDRANT
- DENOTES PAINT CONCRETE CURBING, YELLOW
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- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE AND 3" HOT MIX ASPHALT 19M64 BASE COURSE
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No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – CLINTON AVENUE

WARD 2

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28399000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 (732) 727 9000
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194 (732) 462 7400

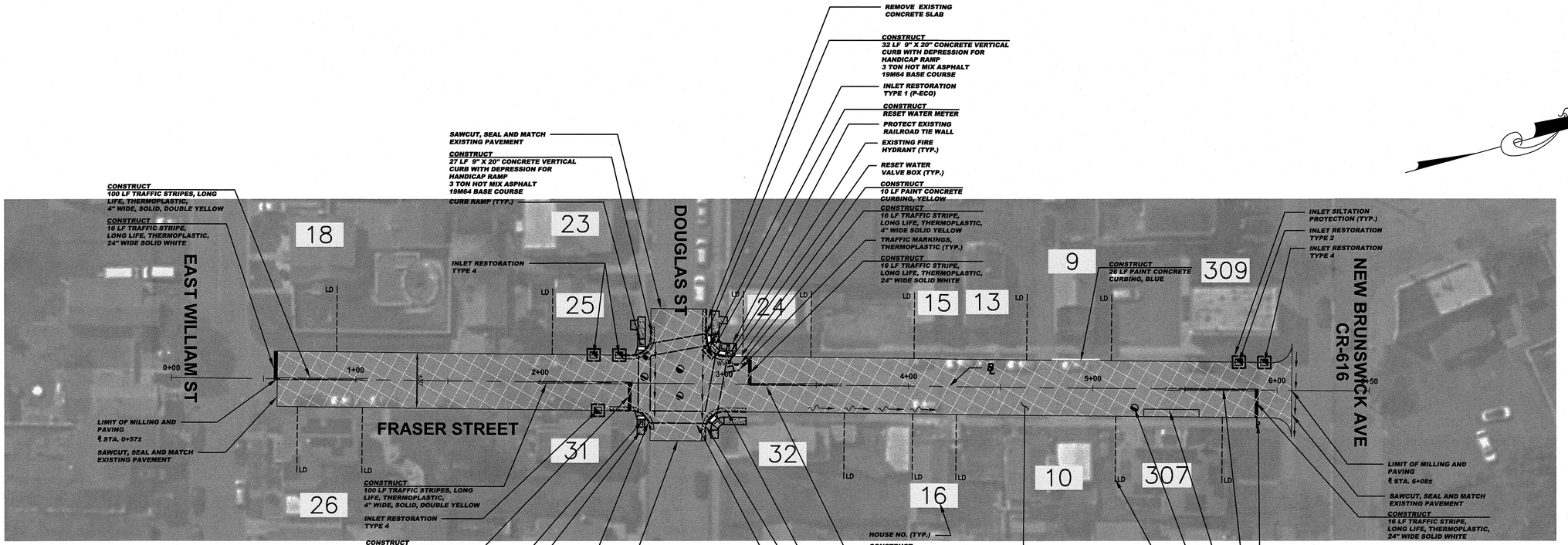
GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

REGISTER NO.

FILE NO. PWBOA615.01

SCALE	DATE
As Shown	May 2024
DRAWN BY	DESIGNED BY
AS	AS/PD
CHECKED BY	SHEET
GO	10 of 77

DRAWING NUMBER
C-7
C-52



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

CONSTRUCT (FRASER STREET)

1988	SY	HMA MILLING, 3" OR LESS
1976	LF	POLYMERIZED JOINT ADHESIVE
140	LF	PREPARE & SEAL EXISTING JOINTS & CRACKS IN ASPHALT PAVEMENT
290	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
13	TON	HOT MIX ASPHALT 19M64 BASE COURSE
5	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
6	UN	RESET EXISTING CASTING
1	UN	CURB PIECE, TYPE "P-ECO"
1	UN	BICYCLE SAFE GRATE
51	SY	CONCRETE SIDEWALKS, 4" THICK
5	SY	DETECTABLE WARNING SURFACE
121	LF	9"X20" CONCRETE VERTICAL CURB
36	LF	PAINT CONCRETE CURBING
438	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
242	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
64	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
6	SF	TRAFFIC MARKINGS, THERMOPLASTIC
1	UN	RESET WATER VALVE BOX
1	UN	RESET WATER METER
62	SY	TOPSOILING, 4" THICK
62	SY	FERTILIZING AND SEEDING
62	SY	TOPSOIL STABILIZATION, TYPE 2 MAT

SPECIAL PROVISIONS

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PROPOSED CURB AND/OR ROADWAY REPLACEMENT

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INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
- DENOTES RECONSTRUCT INLET
- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
- DENOTES APPROXIMATE LOCATION OF EXISTING HIGH POINT
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- DENOTES TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC WITH GLASS BEADS, FOR FIRE HYDRANT
- DENOTES PAINT CONCRETE CURBING, YELLOW
- DENOTES BENCH MARK LOCATION
- DENOTES EXISTING TREES OR STUMPS TO BE REMOVED
- DENOTES RESET BRICKWALK/ PAVERS
- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
- DENOTES CONCRETE DRIVEWAY RESTORATION
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE EXCAVATION) AND PAVING WITH 19M64 BASE COURSE
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TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – FRASER STREET

WARD 2

CVE ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28039000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 (732) 727 8000
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194 (732) 462 7400

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
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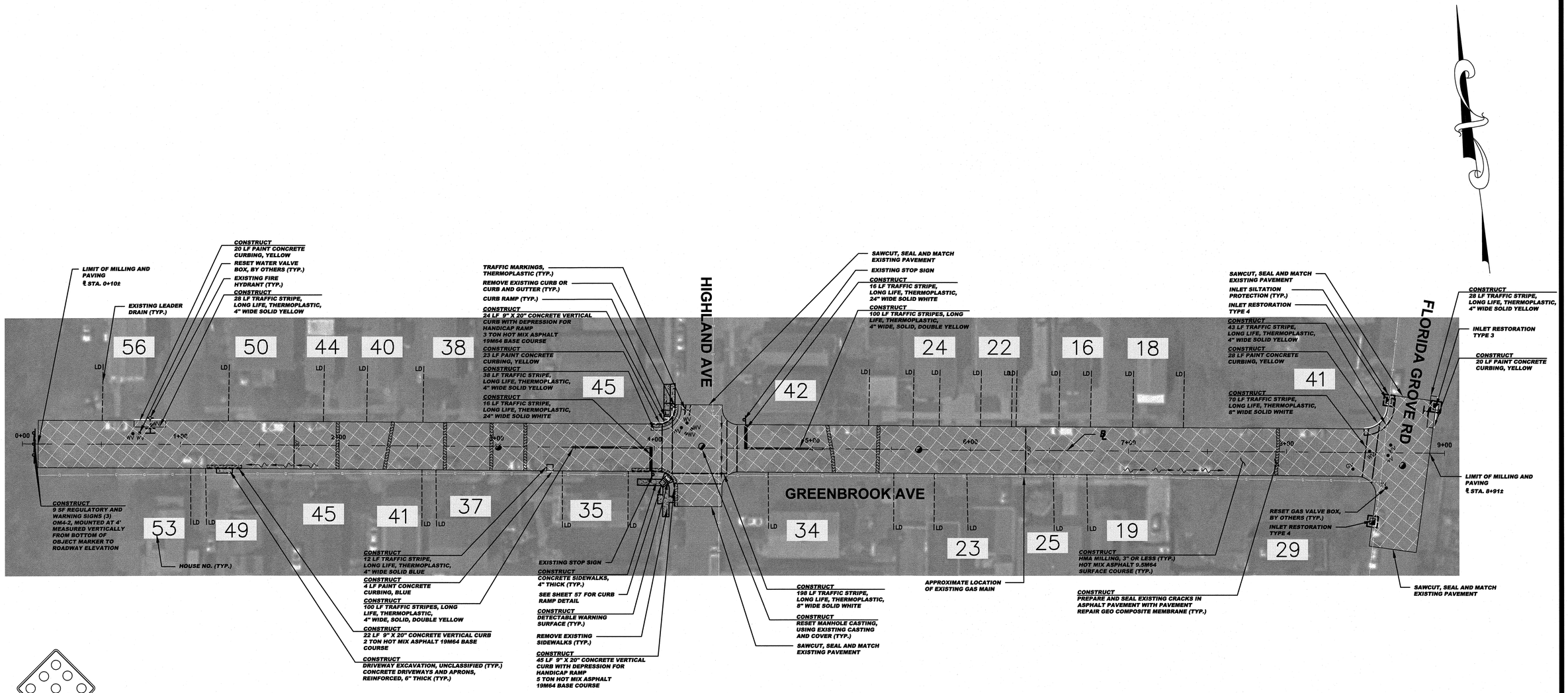
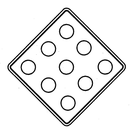
DESIGNED BY	AS/PD
CHECKED BY	
SHEET	11 of 77

REGISTER NO. FILE NO. PWB0A615.01

DRAWING NUMBER C-8 C-52

TOWNSHIP OF WOODBRIDGE — **COUNTY OF MIDDLESEX**





OM4-2
18"x18"

SIGN LEGEND

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

CONSTRUCT (GREENBROOK AVENUE)

4	CY	DRIVEWAY EXCAVATION, UNCLASSIFIED
3298	SY	HMA MILLING, 3" OR LESS
3133	LF	POLYMERIZED JOINT ADHESIVE
120	LF	PREPARE AND SEAL EXISTING JOINTS & CRACKS IN ASPHALT PAVEMENT
242	LF	PREPARE AND SEAL EXISTING TRANSVERSE CRACKS IN ASPHALT PAVEMENT WITH PAVEMENT REPAIR GEO COMPOSITE MEMBRANE
476	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
10	TON	HOT MIX ASPHALT 19M64 BASE COURSE
4	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
3	UN	RESET EXISTING CASTING
1	UN	CURB PIECE, TYPE "N-ECO"
1	UN	BICYCLE SAFE GRATE
29	SY	CONCRETE SIDEWALKS, 4" THICK
13	SY	CONCRETE DRIVEWAYS, REINFORCED 6" THICK
2	SY	DETECTABLE WARNING SURFACE
91	LF	9"X20" CONCRETE VERTICAL CURB
95	LF	PAINT CONCRETE CURBING
349	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
268	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
32	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
18	SF	TRAFFIC MARKINGS, THERMOPLASTIC
9	SF	REGULATORY AND WARNING SIGNS
10	UN	RESET WATER VALVE BOX
2	UN	RESET GAS VALVE BOX
51	SY	TOPSOILING, 4" THICK
51	SY	FERTILIZING AND SEEDING
51	SY	TOPSOIL STABILIZATION, TYPE 2 MAT

SPECIAL PROVISIONS

THE CONTRACTOR IS SPECIFICALLY DIRECTED TO THE REQUIREMENTS CONTAINED IN THE SPECIAL PROVISIONS SECTION OF THE CONTRACT SPECIFICATIONS.

PROPOSED CURB AND/OR ROADWAY REPLACEMENT

THE CONTRACTOR IS ADVISED THAT THEIR LICENSED LAND SURVEYOR SHALL PROVIDE THE CONSTRUCTION STAKEOUT FOR THE PROJECT AND THAT IS THE INTENT OF THE CONTRACT DOCUMENTS TO INSTALL THE NEW CURB, EDGE OF PAVEMENT, AND ROADWAY AT ITS PRESENT HORIZONTAL LOCATION AND VERTICAL LOCATION EXCEPT WHERE PROPOSED GRADES HAVE BEEN INDICATED ON THE PLAN. ACCORDINGLY, THE FULL RESPONSIBILITY FOR KEEPING AND MAINTAINING THE EXISTING ALIGNMENT AND GRADE PRIOR TO REMOVAL OF THE EXISTING CURB AND MILLING AND/OR EXCAVATION OF THE PAVEMENT SHALL REST UPON THE CONTRACTOR IN ACCORDANCE WITH DIVISION 1 GENERAL REQUIREMENTS SECTION 1-4.4 OF THE PROJECT SPECIFICATIONS.

INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
- DENOTES RECONSTRUCT INLET
- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
- DENOTES APPROXIMATE LOCATION OF EXISTING HIGH POINT
- DENOTES APPROXIMATE LOCATION OF EXISTING LOW POINT
- DENOTES TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC WITH GLASS BEADS, FOR FIRE HYDRANT
- DENOTES PAINT CONCRETE CURBING, YELLOW
- DENOTES BENCH MARK LOCATION
- DENOTES EXISTING TREES OR STUMPS TO BE REMOVED
- DENOTES RESET BRICKWALK/ PAVERS
- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
- DENOTES CONCRETE DRIVEWAY RESTORATION
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE EXCAVATION) AND PAVING WITH 19M64 BASE COURSE
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE TEMPORARY TRENCH REPAIR)
- DENOTES PROPOSED CONCRETE SIDEWALK AND DRIVEWAY APRON
- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE AND 3" HOT MIX ASPHALT 19M64 BASE COURSE
- DENOTES AREA TO BE MILLED AND RECEIVE MIN. 2" HMA 9.5M64 SURFACE COURSE
- DENOTES AREA TO BE MILLED, EXISTING CRACK TO BE CLEANED AND SEALED, AND GEO COMPOSITE MATERIAL TO BE INSTALLED
- DENOTES AREA TO BE EXCAVATED UP TO 9" AND RECEIVE HMA 19M64 BASE COURSE
- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE 7" HOT MIX ASPHALT 19M64 BASE COURSE 6" DENSE GRADED AGGREGATE BASE COURSE
- DENOTES ROADWAY TRENCH REPAIR AREA 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE 7" HOT MIX ASPHALT 19M64 BASE COURSE 6" DENSE GRADED AGGREGATE BASE COURSE

No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – GREENBROOK AVENUE

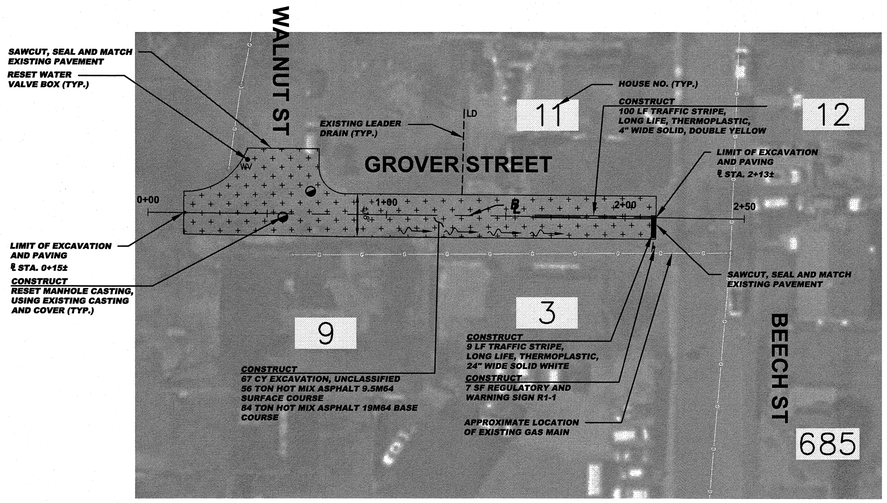
WARD 2

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28339000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 (732) 727 8000
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194 (732) 462 7400

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
DRAWN BY	AS
DESIGNED BY	AS/PD
CHECKED BY	GO
SHEET	12 of 77
DRAWING NUMBER	C-9
	C-52

REGISTER NO. PWB0A615.01
DIE NO.



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

CONSTRUCT (GROVER STREET)

67	CY	EXCAVATION, UNCLASSIFIED, 5" DEEP
688	LF	POLYMERIZED JOINT ADHESIVE
48	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT
56	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
84	TON	HOT MIX ASPHALT 19M64 BASE COURSE
2	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
100	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
10	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
7	SF	REGULATORY AND WARNING SIGNS
1	UN	RESET WATER VALVE BOX

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
- DENOTES RECONSTRUCT INLET
- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
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- DENOTES TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC WITH GLASS BEADS, FOR FIRE HYDRANT
- DENOTES PAINT CONCRETE CURBING, YELLOW
- DENOTES BENCH MARK LOCATION
- DENOTES EXISTING TREES OR STUMPS TO BE REMOVED
- DENOTES RESET BRICKWALK/ PAVERS
- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
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- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE TEMPORARY TRENCH REPAIR)
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- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE AND 3" HOT MIX ASPHALT 19M64 BASE COURSE
- DENOTES AREA TO BE MILLED AND RECEIVE MIN. 2" HMA 9.5M64 SURFACE COURSE
- DENOTES AREA TO BE MILLED, EXISTING CRACK TO BE CLEANED AND SEALED, AND GEO COMPOSITE MATERIAL TO BE INSTALLED
- DENOTES AREA TO BE EXCAVATED UP TO 9" AND RECEIVE HMA 19M64 BASE COURSE
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- DENOTES ROADWAY TRENCH REPAIR AREA 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE 7" HOT MIX ASPHALT 19M64 BASE COURSE 6" DENSE GRADED AGGREGATE BASE COURSE

STOP

R1-1
30"x30"

SIGN LEGEND
N.T.S.

SPECIAL PROVISIONS

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No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – GROVER STREET

WARD 2

REGISTER NO.

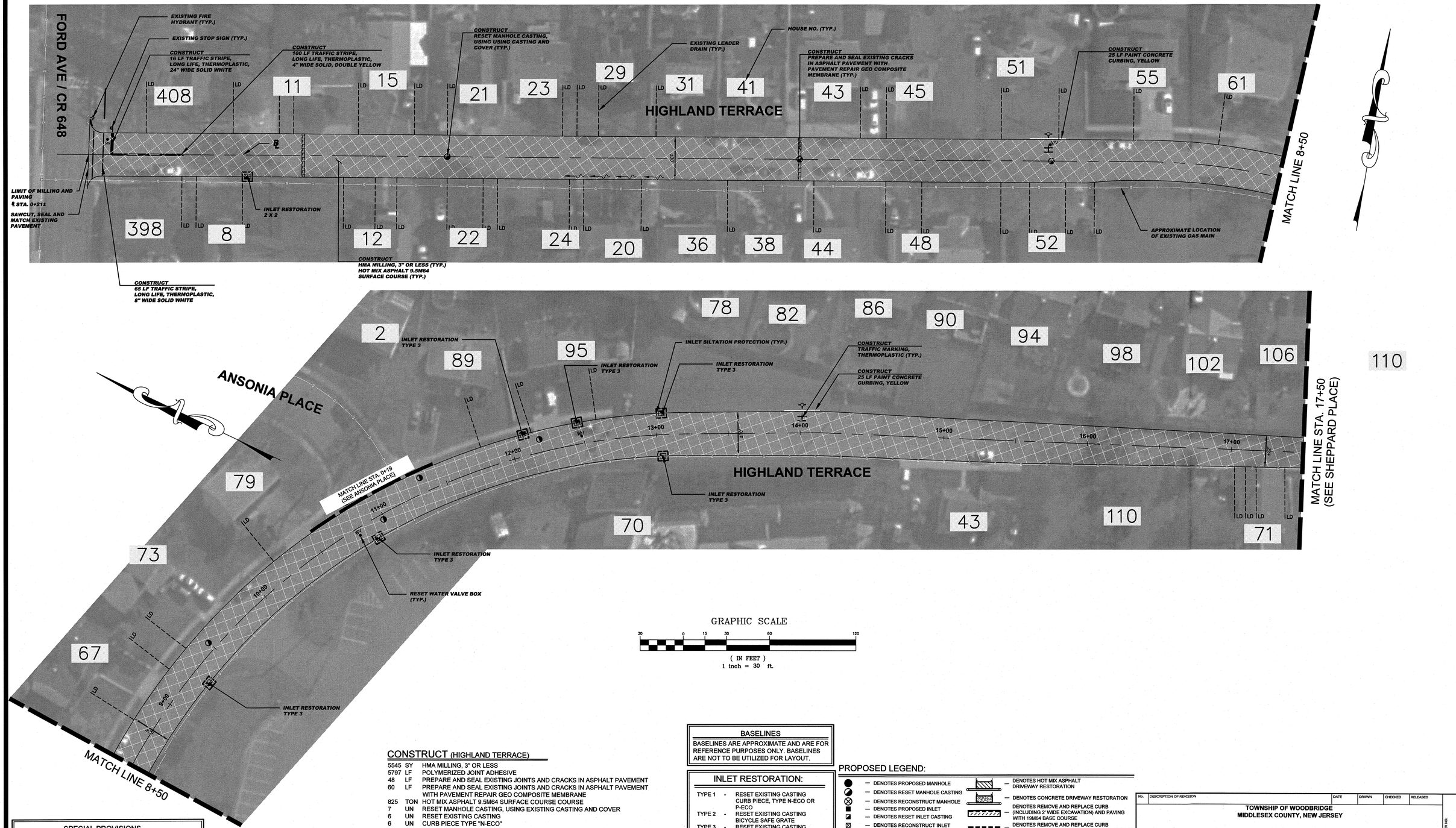
FILE NO. PWB0A615.01

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
(732) 727 8000 (732) 462 7400
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	DATE	DRAWING NUMBER
As Shown	May 2024	C-10
DRAWN BY ER	DESIGNED BY PD/ER	C-52
CHECKED BY 60	SHEET 13 of 77	

TOWNSHIP OF WOODBRIDGE — **COUNTY OF MIDDLESEX**



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

CONSTRUCT (HIGHLAND TERRACE)

5545	SY	HMA MILLING, 3" OR LESS
5797	LF	POLYMERIZED JOINT ADHESIVE
48	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT
60	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT WITH PAVEMENT REPAIR GEO COMPOSITE MEMBRANE
825	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE COURSE
7	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
6	UN	RESET EXISTING CASTING
6	UN	CURB PIECE TYPE "N-ECO"
6	UN	BICYCLE SAFE GRATE
1	UN	RESET EXISTING CASTING WITH 2'X2' BICYCLE SAFE GRATE
55	LF	PAINT CONCRETE CURBING, YELLOW
100	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
65	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
16	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
6	SF	TRAFFIC MARKINGS, THERMOPLASTIC
4	UN	RESET WATER VALVE BOX
1	UN	RESET GAS VALVE BOX

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TYPE 4	-	RESET EXISTING CASTING

PROPOSED LEGEND:

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- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
- DENOTES RECONSTRUCT INLET
- DENOTES PROPOSED DETECTABLE WARNING SURFACE
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- DENOTES DIRECTION OF FLOW
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No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – HIGHLAND TERRACE

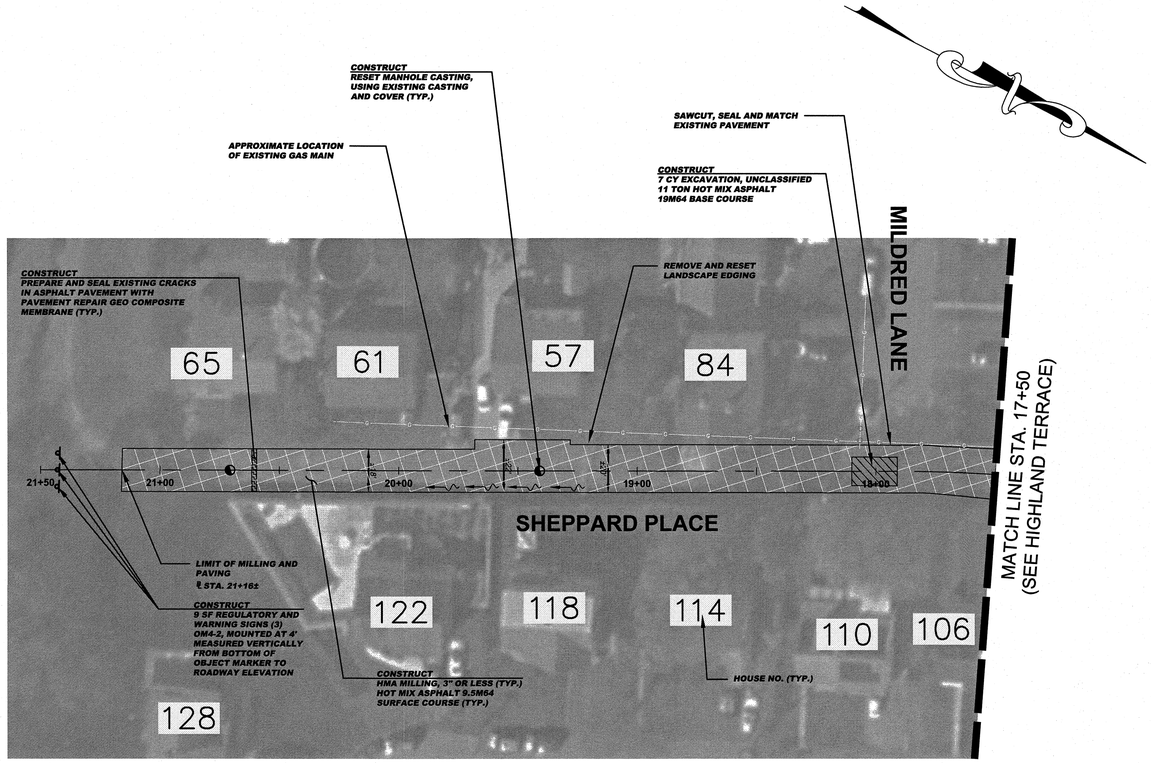
WARD 2

CVE ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
(732) 727 8000 (732) 462 7400
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

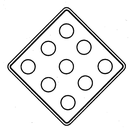
SCALE	DATE	DRAWING NUMBER
As Shown	May 2024	C-11
DRAWN BY: AW	DESIGNED BY: AWPD	C-52
CHECKED BY:	SHEET: 14 of 77	

REGISTER NO.
FILE NO. PWBOA615.01



CONSTRUCT (SHEPPARD PLACE)

7	CY	EXCAVATION, UNCLASSIFIED
791	SY	HMA MILLING, 3" OR LESS
7679	LF	POLYMERIZED JOINT ADHESIVE
30	LF	PREPARE & SEAL EXISTING JOINTS & CRACKS IN ASPHALT PAVEMENT
18	LF	PREPARE & SEAL EXISTING TRANSVERSE CRACKS IN ASPHALT PAVEMENT WITH PAVEMENT REPAIR GEO COMPOSITE MEMBRANE
130	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
11	TON	HOT MIX ASPHALT 19M64 BASE COURSE
2	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
9	SF	REGULATORY AND WARNING SIGNS



OM4-2
18"x18"

SIGN LEGEND

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

BASELINES

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INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
- DENOTES RECONSTRUCT INLET
- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
- DENOTES APPROXIMATE LOCATION OF EXISTING HIGH POINT
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- DENOTES TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC WITH GLASS BEADS, FOR FIRE HYDRANT
- DENOTES PAINT CONCRETE CURBING, YELLOW
- DENOTES BENCH MARK LOCATION
- DENOTES EXISTING TREES OR STUMPS TO BE REMOVED
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- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
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- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE EXCAVATION) AND PAVING WITH 19M64 BASE COURSE
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SPECIAL PROVISIONS

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No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – SHEPPARD PLACE

WARD 2

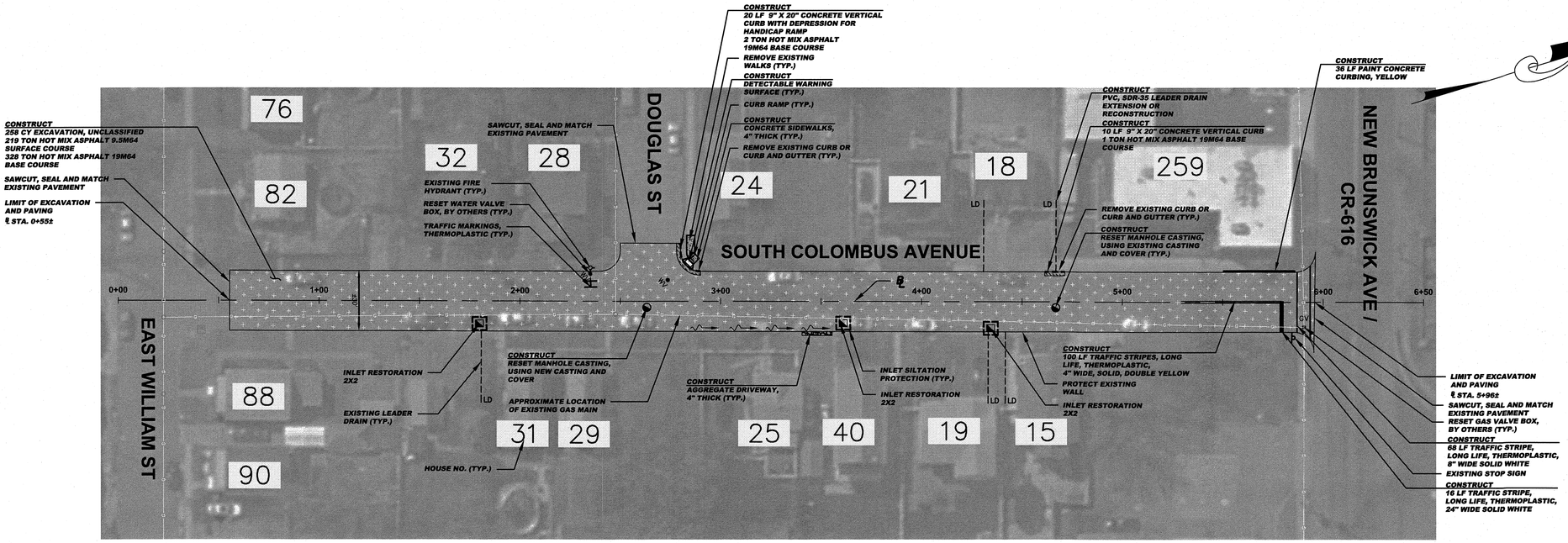
CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
(732) 727 8000 (732) 462 7400
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359500

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
DRAWN BY	AW
DESIGNED BY	AW/PD
CHECKED BY	
SHEET	15 of 77

DRAWING NUMBER C-12 / C-52

REGISTER NO. FILE NO. PWB0A615.01



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

CONSTRUCT (SOUTH COLOMBUS AVENUE)

258	CY	EXCAVATION, UNCLASSIFIED, 5" DEEP
3791	LF	POLYMERIZED JOINT ADHESIVE
110	LF	PREPARE & SEAL EXISTING JOINTS & CRACKS IN ASPHALT PAVEMENT
219	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
331	TON	HOT MIX ASPHALT 19M64 BASE COURSE
1	UN	PVC, SDR-35 LEADER DRAIN EXTENSION OR RECONSTRUCTION
1	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
1	UN	RESET MANHOLE CASTING, USING NEW CASTING AND COVER
3	UN	RESET EXISTING CASTING WITH 2'X2' BICYCLE SAFE GRATE
9	SY	CONCRETE SIDEWALKS, 4" THICK
4	SY	AGGREGATE DRIVEWAY, 4" THICK
1	SY	DETECTABLE WARNING SURFACE
30	LF	9"X20" CONCRETE VERTICAL CURB
36	LF	PAINT CONCRETE CURBING
100	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
68	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
16	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
6	SF	TRAFFIC MARKINGS, THERMOPLASTIC
2	UN	RESET WATER VALVE BOX
1	UN	RESET GAS VALVE BOX
17	SY	TOPSOILING, 4" THICK
17	SY	FERTILIZING AND SEEDING
17	SY	TOPSOIL STABILIZATION, TYPE 2 MAT

SPECIAL PROVISIONS

THE CONTRACTOR IS SPECIFICALLY DIRECTED TO THE REQUIREMENTS CONTAINED IN THE SPECIAL PROVISIONS SECTION OF THE CONTRACT SPECIFICATIONS.

PROPOSED CURB AND/OR ROADWAY REPLACEMENT

THE CONTRACTOR IS ADVISED THAT THEIR LICENSED LAND SURVEYOR SHALL PROVIDE THE CONSTRUCTION STAKEOUT FOR THE PROJECT AND THAT IS THE INTENT OF THE CONTRACT DOCUMENTS TO INSTALL THE NEW CURB, EDGE OF PAVEMENT, AND ROADWAY AT ITS PRESENT HORIZONTAL LOCATION AND VERTICAL LOCATION EXCEPT WHERE PROPOSED GRADES HAVE BEEN INDICATED ON THE PLAN. ACCORDINGLY, THE FULL RESPONSIBILITY FOR KEEPING AND MAINTAINING THE EXISTING ALIGNMENT AND GRADE PRIOR TO REMOVAL OF THE EXISTING CURB AND MILLING AND/OR EXCAVATION OF THE PAVEMENT SHALL REST UPON THE CONTRACTOR IN ACCORDANCE WITH DIVISION 1 GENERAL REQUIREMENTS SECTION 1-4.4 OF THE PROJECT SPECIFICATIONS.

INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
- DENOTES RECONSTRUCT INLET
- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
- DENOTES APPROXIMATE LOCATION OF EXISTING HIGH POINT
- DENOTES APPROXIMATE LOCATION OF EXISTING LOW POINT
- DENOTES TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC WITH GLASS BEADS, FOR FIRE HYDRANT
- DENOTES PAINT CONCRETE CURBING, YELLOW
- DENOTES BENCH MARK LOCATION
- DENOTES EXISTING TREES OR STUMPS TO BE REMOVED
- DENOTES RESET BRICKWALK/ PAVERS
- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
- DENOTES CONCRETE DRIVEWAY RESTORATION
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE EXCAVATION) AND PAVING WITH 19M64 BASE COURSE
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE TEMPORARY TRENCH REPAIR)
- DENOTES PROPOSED CONCRETE SIDEWALK AND DRIVEWAY APRON
- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE AND 3" HOT MIX ASPHALT 19M64 BASE COURSE
- DENOTES AREA TO BE MILLED AND RECEIVE MIN. 2" HMA 9.5M64 SURFACE COURSE
- DENOTES AREA TO BE MILLED, EXISTING CRACK TO BE CLEANED AND SEALED, AND GEO COMPOSITE MATERIAL TO BE INSTALLED
- DENOTES AREA TO BE EXCAVATED UP TO 9" AND RECEIVE HMA 19M64 BASE COURSE
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No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – SOUTH COLOMBUS AVENUE

WARD 2

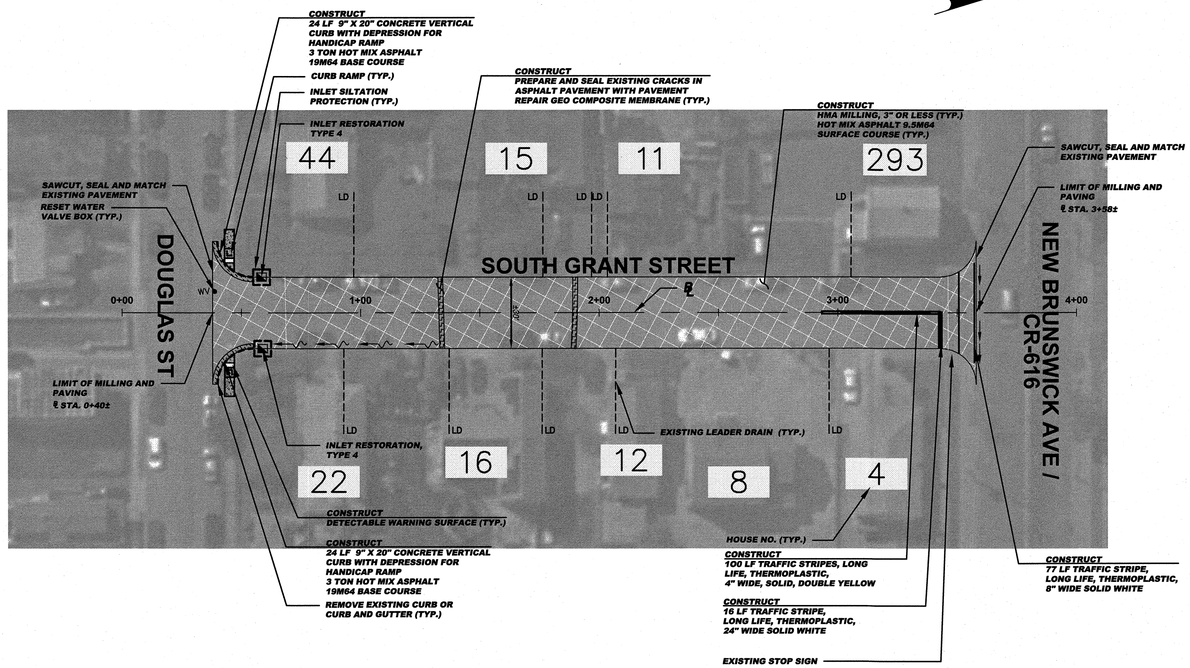
CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
(732) 727 8000 (732) 462 7400
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
DRAWN BY	AS
DESIGNED BY	AS/PD
CHECKED BY	GO
SHEET	16 of 77

REGISTER NO. FILE NO. PWB0A615.01

DRAWING NUMBER C-13 C-52



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

CONSTRUCT (SOUTH GRANT STREET)

1095	SY	HMA MILLING, 3" OR LESS
1221	LF	POLYMERIZED JOINT ADHESIVE
120	LF	PREPARE AND SEAL EXISTING JOINTS & CRACKS IN ASPHALT PAVEMENT
60	LF	PREPARE AND SEAL EXISTING TRANSVERSE CRACKS IN ASPHALT PAVEMENT WITH PAVEMENT REPAIR GEO COMPOSITE MEMBRANE
161	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
6	TON	HOT MIX ASPHALT 19M64 BASE COURSE
2	UN	RESET EXISTING CASTING
15	SY	CONCRETE SIDEWALKS, 4" THICK
2	SY	DETECTABLE WARNING SURFACE
48	LF	9"X20" CONCRETE VERTICAL CURB
100	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
77	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
16	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
1	UN	RESET WATER VALVE BOX
27	SY	TOPSOILING, 4" THICK
27	SY	FERTILIZING AND SEEDING
27	SY	TOPSOIL STABILIZATION, TYPE 2 MAT

SPECIAL PROVISIONS

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TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

BASELINES

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PROPOSED LEGEND:

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- DENOTES RESET MANHOLE CASTING
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- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
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TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – SOUTH GRANT STREET

WARD 2

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
(732) 727 8000 (732) 462 7400
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

GARY MOLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
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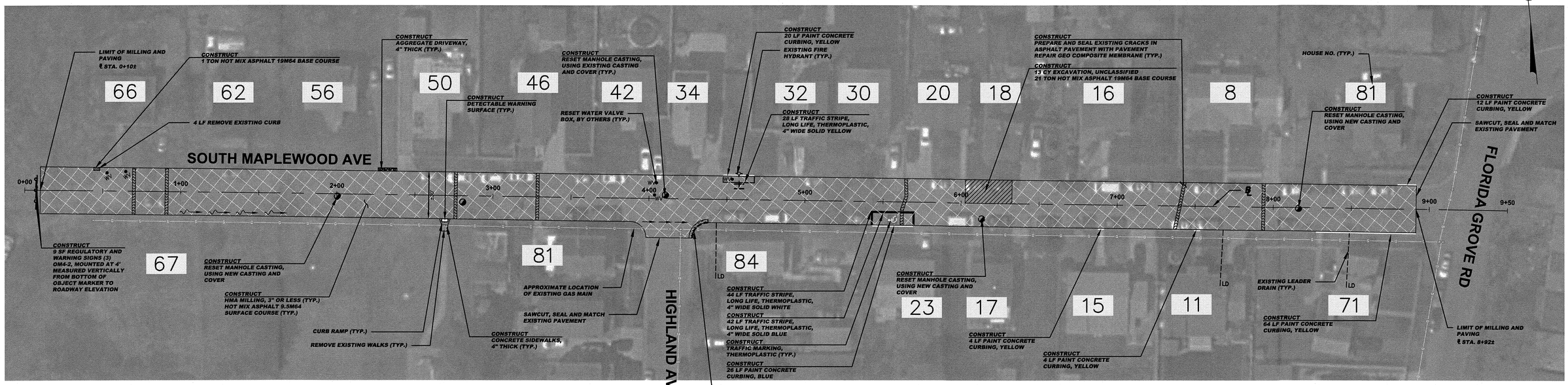
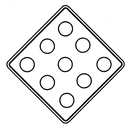
SHEET	17 of 77
DRAWING NUMBER	C-14, C-52

REGISTER NO. PWB0A615.01

TOWNSHIP OF WOODBRIDGE | **COUNTY OF MIDDLESEX**





OM4-2
18"x18"

SIGN LEGEND

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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CONSTRUCT (SOUTH MAPLEWOOD AVE)

13	CY	EXCAVATION, UNCLASSIFIED
2977	SY	HMA MILLING, 3" OR LESS
3162	LF	POLYMERIZED JOINT ADHESIVE
60	LF	PREPARE AND SEAL EXISTING JOINTS & CRACKS IN ASPHALT PAVEMENT
212	LF	PREPARE AND SEAL EXISTING TRANSVERSE CRACK IN ASPHALT PAVEMENT WITH PAVEMENT REPAIR GEO COMPOSITE MEMBRANE
438	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
24	TON	HOT MIX ASPHALT 19M64 BASE COURSE
2	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
3	UN	RESET MANHOLE CASTING, USING NEW CASTING AND COVER
5	SY	CONCRETE SIDEWALKS, 4" THICK
3	SY	AGGREGATE DRIVEWAY, 4" THICK
1	SY	DETECTABLE WARNING SURFACE
16	LF	9"X20" CONCRETE VERTICAL CURB
126	LF	PAINT CONCRETE CURBING
114	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
20	SF	TRAFFIC MARKINGS, THERMOPLASTIC
9	SF	REGULATORY AND WARNING SIGNS
5	UN	RESET WATER VALVE BOX
9	SY	TOPSOILING, 4" THICK
9	SY	FERTILIZING AND SEEDING
9	SY	TOPSOIL STABILIZATION, TYPE 2 MAT

INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
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BASELINES

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TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – SOUTH MAPLEWOOD AVENUE

WARD 2

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
(732) 727 8000 (732) 462 7400
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28039000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
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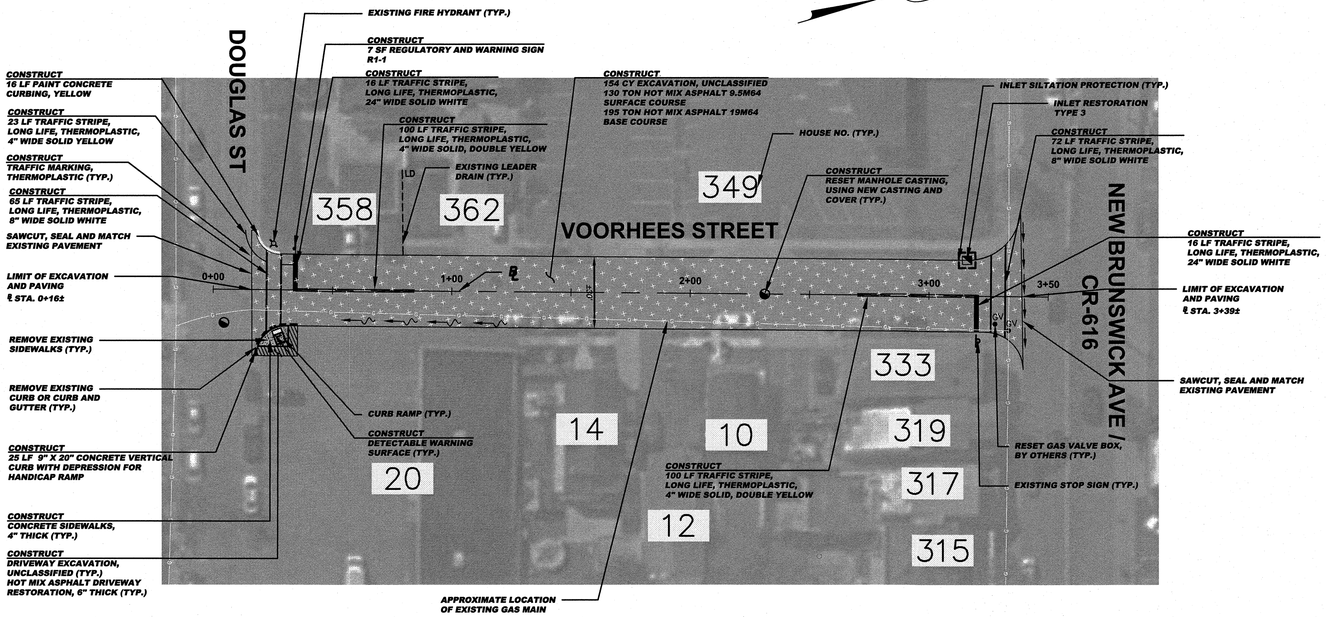
SHEET	18 of 77

DRAWING NUMBER C-15 C-52

REGISTRY NO. FILE NO. PWB0A615.01



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

CONSTRUCT (VOORHEES STREET)

4	CY	DRIVEWAY EXCAVATION
154	CY	EXCAVATION, UNCLASSIFIED
2436	LF	POLYMERIZED JOINT ADHESIVE
120	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT
130	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
195	TON	HOT MIX ASPHALT 19M64 BASE COURSE
1	UN	RESET MANHOLE CASTING, USING NEW CASTING AND COVER
1	UN	RESET EXISTING CASTING
1	UN	CURB PIECE TYPE "N-ECO"
1	UN	BICYCLE SAFE GRATE
10	SY	CONCRETE SIDEWALKS, 4" THICK
1	UN	DETECTABLE WARNING SURFACE
12	SY	HOT MIX ASPHALT DRIVEWAY RESTORATION, 6" THICK, COMMERCIAL
25	LF	9"X20" CONCRETE VERTICAL CURB
16	LF	PAINT CONCRETE CURBING
223	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
137	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
32	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
6	SF	TRAFFIC MARKINGS, THERMOPLASTIC
7	SF	REGULATORY AND WARNING SIGNS
2	UN	RESET GAS VALVE BOX
14	SY	TOPSOILING, 4" THICK
14	SY	FERTILIZING AND SEEDING
14	SY	TOPSOIL STABILIZATION, TYPE 2MAT

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R1-1
30" x 30"

NOTE:

1. ALL SIGNS SHALL MEET MINIMUM RETROREFLECTIVITY LEVEL STANDARDS.

SIGN LEGEND

N.T.S.

BASELINES

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INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

PROPOSED LEGEND:

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- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
- DENOTES RECONSTRUCT INLET
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No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – VOORHEES STREET

WARD 2

CVE ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
(732) 727 8000 (732) 462 7400
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28039000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

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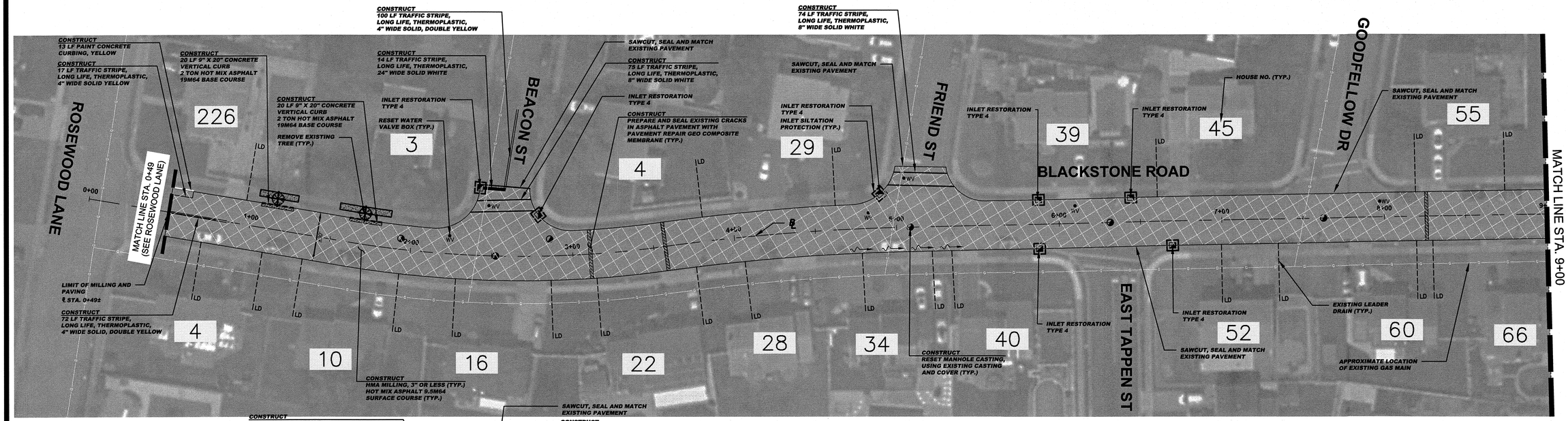
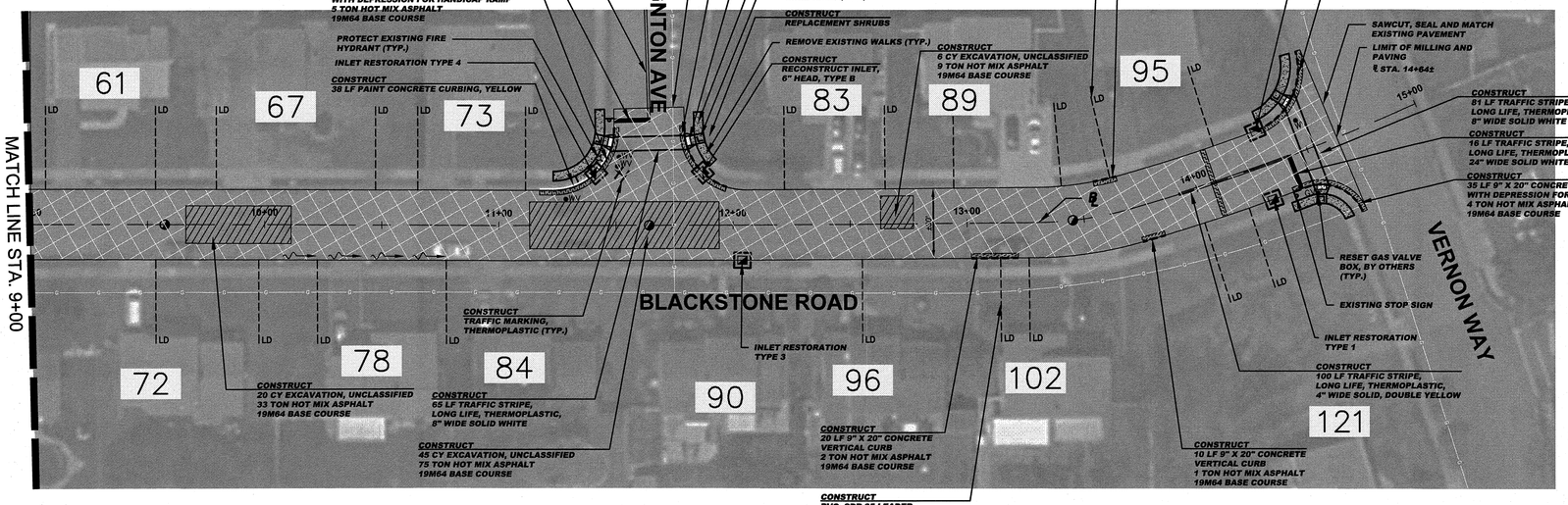
DRAWING NUMBER C-16 C-52

TOWNSHIP OF WOODBRIDGE | **COUNTY OF MIDDLESEX**





CONSTRUCT (BLACKSTONE ROAD)

71	CY	EXCAVATION, UNCLASSIFIED
5140	SY	HMA MILLING, 3" OR LESS
5657	LF	POLYMERIZED JOINT ADHESIVE
302	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT
120	LF	PREPARE AND SEAL EXISTING TRANSVERSE CRACKS IN ASPHALT PAVEMENT WITH PAVEMENT REPAIR GEO COMPOSITE MEMBRANE
746	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
141	TON	HOT MIX ASPHALT 19M64 BASE COURSE
2	UN	PVC, SDR 35 LEADER DRAIN EXTENSION OR RECONSTRUCTION
9	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
11	UN	RESET EXISTING CASTING
3	UN	CURB PIECE TYPE "N-ECO"
1	UN	BICYCLE SAFE GRATE
1	UN	RECONSTRUCT INLET, 6" HEAD, TYPE B
90	SY	CONCRETE SIDEWALKS, 4" THICK
4	SY	DETECTABLE WARNING SURFACE
221	LF	9"X20" CONCRETE VERTICAL CURB
51	LF	PAINT CONCRETE CURBING
389	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
295	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
46	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
6	SF	TRAFFIC MARKINGS, THERMOPLASTIC
10	UN	RESET WATER VALVE BOX
1	UN	RESET GAS VALVE BOX
123	SY	TOPSOILING, 4" THICK
123	SY	FERTILIZING AND SEEDING
123	SY	TOPSOIL STABILIZATION, TYPE 2MAT
2	UN	REPLACEMENT TREE
5	UN	REPLACEMENT SHRUB

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GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft.

INLET RESTORATION:

- TYPE 1 - RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
- TYPE 2 - RESET EXISTING CASTING BICYCLE SAFE GRATE
- TYPE 3 - RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
- TYPE 4 - RESET EXISTING CASTING

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
- DENOTES RECONSTRUCT INLET
- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
- DENOTES APPROXIMATE LOCATION OF EXISTING HIGH POINT
- DENOTES APPROXIMATE LOCATION OF EXISTING LOW POINT
- DENOTES TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC WITH GLASS BEADS, FOR FIRE HYDRANT
- DENOTES PAINT CONCRETE CURBING, YELLOW
- DENOTES BENCH MARK LOCATION
- DENOTES EXISTING TREES OR STUMPS TO BE REMOVED
- DENOTES RESET BRICKWALK/ PAVERS
- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
- DENOTES CONCRETE DRIVEWAY RESTORATION
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE EXCAVATION) AND PAVING WITH 19M64 BASE COURSE
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE TEMPORARY TRENCH REPAIR)
- DENOTES PROPOSED CONCRETE SIDEWALK AND DRIVEWAY APRON
- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE AND 3" HOT MIX ASPHALT 19M64 BASE COURSE
- DENOTES AREA TO BE MILLED AND RECEIVE MIN. 2" HMA 9.5M64 SURFACE COURSE
- DENOTES AREA TO BE MILLED, EXISTING CRACK TO BE CLEANED AND SEALED, AND GEO COMPOSITE MATERIAL TO BE INSTALLED
- DENOTES AREA TO BE EXCAVATED UP TO 9" AND RECEIVE HMA 19M64 BASE COURSE
- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE 7" HOT MIX ASPHALT 19M64 BASE COURSE 6" DENSE GRADED AGGREGATE BASE COURSE
- DENOTES ROADWAY TRENCH REPAIR AREA 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE 7" HOT MIX ASPHALT 19M64 BASE COURSE 6" DENSE GRADED AGGREGATE BASE COURSE

No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – BLACKSTONE ROAD

WARD 3

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 (732) 727 8000
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194 (732) 462 7400

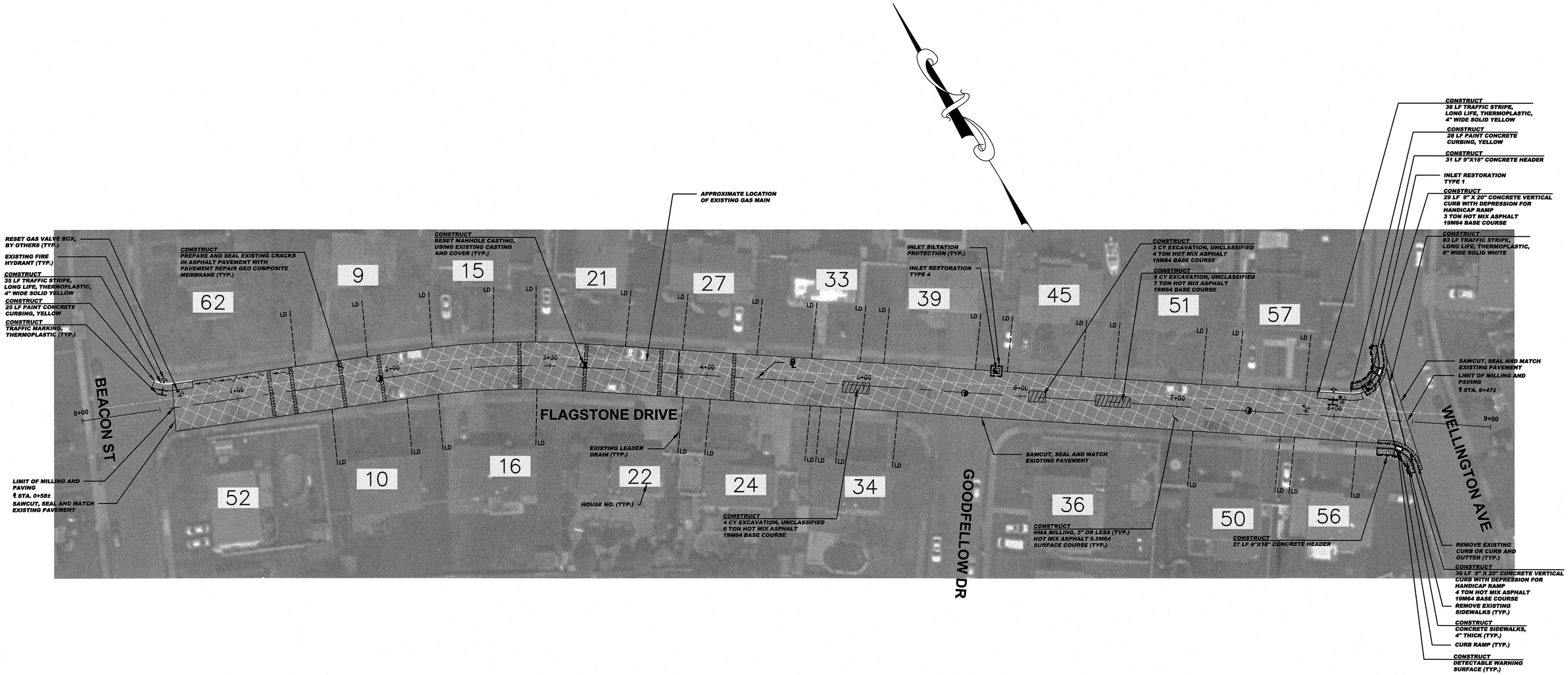
GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown	DATE	May 2024
DRAWN BY	AW	DESIGNED BY	AW/PD
CHECKED BY		SHEET	20 of 77

REGISTER NO. FILE NO. PWB0A615.01

DRAWING NUMBER C-17 C-52

TOWNSHIP OF WOODBRIDGE | **COUNTY OF MIDDLESEX**



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

CONSTRUCT (FLAGSTONE DRIVE)

12	CY	EXCAVATION, UNCLASSIFIED
2863	SY	HMA MILLING, 3" OR LESS
3028	LF	POLYMERIZED JOINT ADHESIVE
184	LF	PREPARE AND SEAL EXISTING JOINTS & CRACKS IN ASPHALT PAVEMENT
240	LF	PREPARE AND SEAL EXISTING TRANSVERSE CRACK IN ASPHALT PAVEMENT WITH PAVEMENT REPAIR GEO COMPOSITE MEMBRANE
392	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
24	TON	HOT MIX ASPHALT 19M64 BASE COURSE
4	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
2	UN	RESET EXISTING CASTING
1	UN	CURB PIECE TYPE "P-ECO"
33	SY	CONCRETE SIDEWALK, 4" THICK
2	SY	DETECTABLE WARNING SURFACE
65	LF	9"X20" CONCRETE VERTICAL CURB
58	LF	9"X18" CONCRETE HEADER
53	LF	PAINT CONCRETE CURBING
73	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
93	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
12	SF	TRAFFIC MARKINGS, THERMOPLASTIC
3	UN	RESET WATER VALVE BOX
48	SY	TOPSOILING, 4" THICK
48	SY	FERTILIZING AND SEEDING
48	SY	TOPSOIL STABILIZATION, TYPE 2 MAT

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INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
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TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

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- DENOTES PROPOSED INLET
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TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – FLAGSTONE DRIVE

WARD 3

REGISTER NO. PWB0A615.01

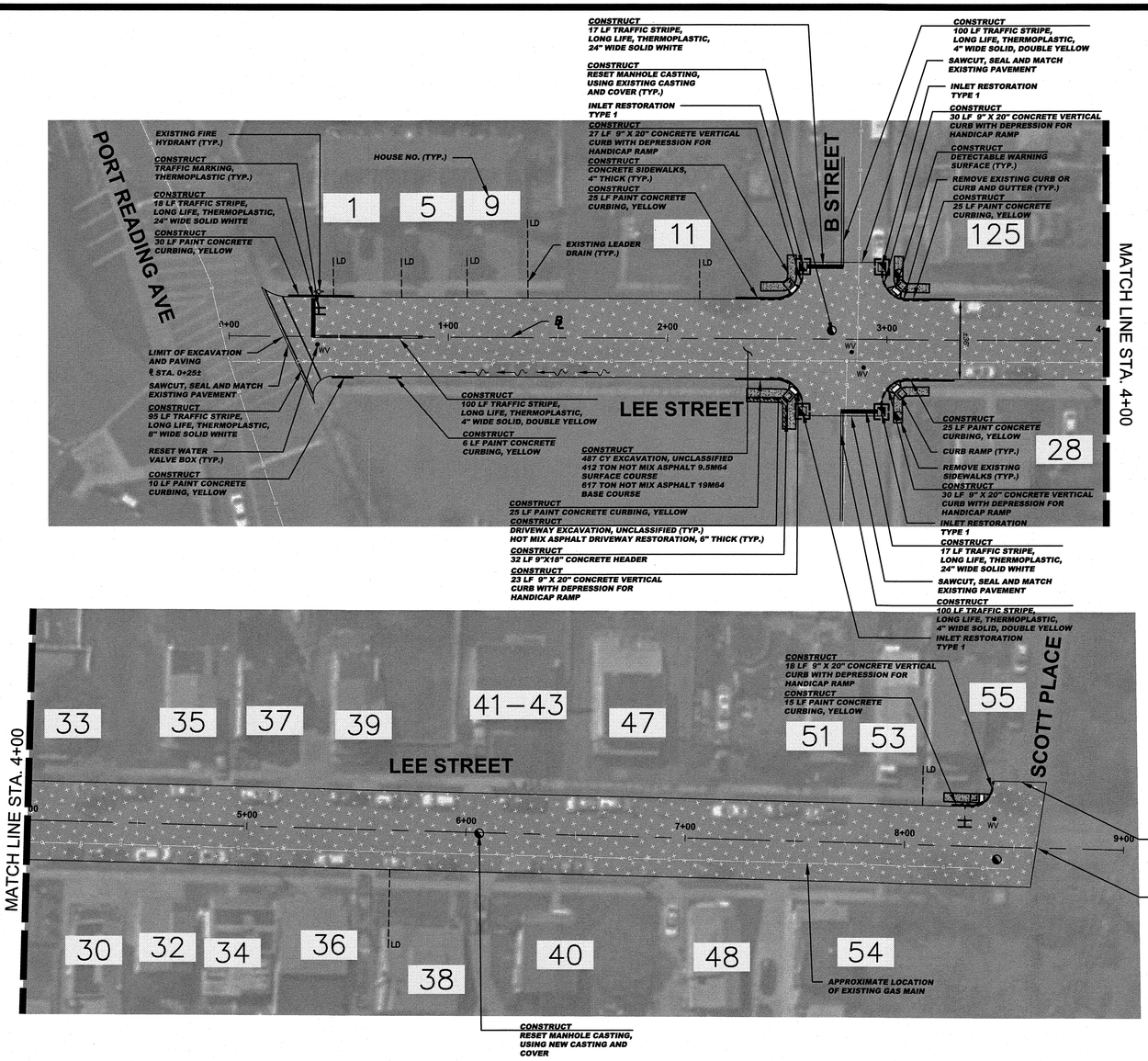
CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 (732) 727 8000
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194 (732) 462 7400

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
DRAWN BY	AS
DESIGNED BY	AS/PD
CHECKED BY	G
SHEET	21 of 77
DRAWING NUMBER	C-18 / C-52

FILE NO.

TOWNSHIP OF WOODBRIDGE | **COUNTY OF MIDDLESEX**



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

CONSTRUCT (LEE STREET)

2	CY	DRIVEWAY EXCAVATION, UNCLASSIFIED
491	CY	EXCAVATION, UNCLASSIFIED, 5' DEEP
5952	LF	POLYMERIZED JOINT ADHESIVE
156	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT
416	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
623	TON	HOT MIX ASPHALT 19M64 BASE COURSE
4	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
1	UN	RESET MANHOLE CASTING, USING NEW CASTING AND COVER
4	UN	RESET EXISTING CASTING
4	UN	CURB PIECE, TYPE "N-ECO"
69	SY	CONCRETE SIDEWALKS, 4" THICK
7	SY	HOT MIX ASPHALT DRIVEWAY RESTORATION, 6" THICK
5	SY	DETECTABLE WARNING SURFACE
128	LF	9"X20" CONCRETE VERTICAL CURB
32	LF	9"X18" CONCRETE HEADER
161	LF	PAINT CONCRETE CURBING
300	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
95	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
52	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
12	SF	TRAFFIC MARKINGS, "THERMOPLASTIC"
4	UN	RESET WATER VALVE BOX
72	SY	TOPSOILING, 4" THICK
72	SY	FERTILIZING AND SEEDING
72	SY	TOPSOIL STABILIZATION, TYPE 2 MAT

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TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – LEE STREET

WARD 3

CVE ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28039000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 (732) 727 8000
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194 (732) 462 7400

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
DRAWN BY	ER
DESIGNED BY	ER/PD
CHECKED BY	60
SHEET	22 of 77

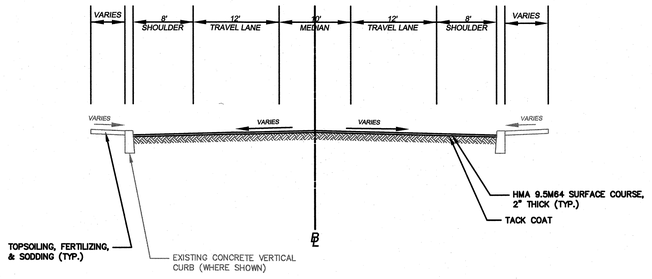
REGISTER NO. FILE NO. PWB0A615.01

DRAWING NUMBER C-19 C-52

TOWNSHIP OF WOODBRIDGE

COUNTY OF MIDDLESEX

ITEM	DESCRIPTION	UNIT	CONTRACT QUANTITY	PLAN SHEET TOTALS	IF AND WHERE DIRECTED	AS-BUILT QUANTITY	DISTRIBUTION: PLAN SHEET QUANTITY		
							C-1	C-2	C-3
1	Mobilization	LS	LUMP SUM	LUMP SUM	LUMP SUM		1	0	0
2	Construction signs	SF	256	0	256		0	0	0
3	Breakaway barricade	UN	16	0	16		0	0	0
4	Drum	UN	80	0	80		0	0	0
5	Traffic cone	UN	80	0	80		0	0	0
6	Traffic director, Municipal police allowance	ALL	ALLOWANCE	ALLOWANCE	ALLOWANCE		0	0	0
7	Traffic control truck with mounted crash cushion	UN	0	0	0		0	0	0
8	Flashing arrow board, 4'x8'	UN	0	0	0		0	0	0
9	Fuel price adjustment	DOLLAR	DOLLARS	DOLLARS	DOLLARS		0	0	0
10	Asphalt price adjustment	DOLLAR	DOLLARS	DOLLARS	DOLLARS		0	0	0
11	Clearing Site	LS	LUMP SUM	LUMP SUM	LUMP SUM		0	0	0
12	Driveway excavation, unclassified	CY	14	12	2		0	0	12
13	Excavation, unclassified	CY	230	209	21		91	113	5
14	Excavation, unclassified, test pit	CY	0	0	0		0	0	0
15	2" to 2 1/2" Clean stone subbase (If and where ordered)	CY	0	0	0		0	0	0
16	Geotextile roadway stabalization (If and where ordered)	SY	0	0	0		0	0	0
17	Dense graded aggregate for pipe trench	CY	0	0	0		0	0	0
18	HMA milling, 3" or less	SY	23637	21488	2149		9751	9311	2426
19	Polymerized joint adhesive	LF	17336	15760	1576		7389	7289	1082
20	Prepare and seal existing joints and cracks in asphalt pavement	LF	693	630	63		208	239	183
21	Prepare and seal existing transverse cracks in asphalt pavement with pavement repair geo composite membrane	LF	0	0	0		0	0	0
22	Hot mix asphalt 9.5M64 surface course	TON	3199	2908	291		1319	1257	332
23	Hot mix asphalt 19M64 base course	TON	472	429	43		189	203	37
24	PVC, SDR-35 Leader drain extension or reconstruction	UN	0	0	0		0	0	0
25	6" dia. smooth wall interior, corrugated, perforated polyethylene tubing (PPT) underdrains with filter fabric & stone backfill	LF	0	0	0		0	0	0
26	Connect leader or sump drain to proposed 6" dia. PPT underdrain	UN	0	0	0		0	0	0
27	15" dia. reincforced concrete pipe, Class V storm sewer with flexible watertight gaskets, including excavation and backfill, Type 57 stone bedding, Type 57 stone backfill to the spring line of the pipe, filter fabric and all associated work	LF	0	0	0		0	0	0
28	Handhole with casting	UN	0	0	0		0	0	0
29	Reset manhole casting, using existing casting and cover	UN	15	15	0		5	10	0
30	Reset manhole casting, using new casting and cover	UN	1	1	0		1	0	0
31	Reset existing casting	UN	6	6	0		3	1	2
32	Curb piece, type "N-ECO"	UN	5	5	0		2	1	2
33	Curb piece, type "P-ECO"	UN	0	0	0		0	0	0
34	Bicycle safe grate	UN	0	0	0		0	0	0
35	Reconstruct inlet, type B, 6" head	UN	0	0	0		0	0	0
36	Reconstruct inle, type B, 8" head	UN	4	4	0		1	3	0
37	Reconstruct inlet, type E	UN	0	0	0		0	0	0
38	Inlet, Type B, 6" head	UN	0	0	0		0	0	0
39	Inlet, Type B1, 6" head	UN	0	0	0		0	0	0
40	Inlet, Type B2, 6" head	UN	0	0	0		0	0	0
41	Lawn inlet	UN	0	0	0		0	0	0
42	Reset existing casting with 2'x2' bicycle safe grate	UN	0	0	0		0	0	0
43	Concrete sidewalks, 4" thick	SY	96	87	9		39	0	48
44	Concrete driveways and aprons, reinforced, 6" thick (including bedding)	SY	0	0	0		0	0	0
45	Hot Mix Asphalt driveway restoration, 2" thick	SY	0	0	0		0	0	0
46	Hot Mix Asphalt driveway restoration, 6" thick, commercial	SY	46	41	5		0	0	41
47	Hot Mix Asphalt walkway restoration	SY	0	0	0		0	0	0
48	Driveway restoration, pavers	SY	0	0	0		0	0	0
49	Aggregate driveway, 4" thick	SY	0	0	0		0	0	0
50	Detectable warning surface	SY	10	9	1		3	0	6
51	9" x 20" Concrete vertical curb	LF	975	886	89		412	189	285
52	9"x18" Concrete header	LF	0	0	0		0	0	0
53	Granite block curb	LF	0	0	0		0	0	0
54	Concrete curb and gutter, 6" face with 6" DGABC bedding	LF	0	0	0		0	0	0
55	Paint concrete curbing	LF	5540	5036	504		1819	2512	705
56	Traffic stripes, long life, "thermoplastic", 4" wide, with glass beads	LF	19103	17366	1737		7043	8445	1878
57	Traffic stripes, long life, "thermoplastic", 8" wide, with glass beads	LF	440	400	40		200	0	200
58	Traffic stripes, long life, "thermoplastic", 24" wide, with glass beads	LF	2646	2405	241		961	1100	344
59	Traffic markings, thermoplastic, with glass beads	SF	262	238	24		80	152	6
60	RPM, mono-directional, amber lens	UN	72	72	0		28	34	10
61	Regulatory and warning signs	SF	297	270	27		85	145	40
62	Temporary trench repair	SY	0	0	0		0	0	0
63	Roadway trench repair	SY	0	0	0		0	0	0
64	Municipal project sign	UN	0	0	0		0	0	0
65	Permanent barricade, type III, modified	UN	0	0	0		0	0	0
66	Reset water valve box (If and where ordered)	UN	4	4	0		4	0	0
67	Reset water meter (If and where ordered)	UN	0	0	0		0	0	0
68	Reset gas valve box (If and where ordered)	UN	2	2	0		2	0	0
69	Loop Detector (If and where odered)	LF	755	0	755		0	0	0
70	Loop Detector Cable (If and where ordered)	LF	150	0	150		0	0	0
71	Relocate existing push button (If and where ordered)	UN	1	0	1		0	0	0
72	Selective Clearing (If and where ordered) as shown on plans, complete in place	SY	76	69	7		69	0	0
73	Topsoiling, 4" thick, including fine grading	SY	543	493	50		229	105	159
74	Fertilizing and seeding	SY	543	493	50		229	105	159
75	Topsoil stabilization, Type 2 mat	SY	543	493	50		229	105	159
76	Sodding (If and where ordered)	SY	136	0	136		0	0	0
77	Replacement trees (If and where ordered)	UN	0	0	0		0	0	0
78	Replacement shrubs (If and where ordered)	UN	0	0	0		0	0	0



TYPICAL SECTION – OMAR AVENUE

N.T.S.

No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

TYPICAL SECTION AND ESTIMATE AND DISTRIBUTION OF QUANTITIES

OMAR AVENUE — NJDOT MA 23

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
(732) 727 8000 (732) 462 7400
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

REGISTER NO. FILE NO. PWB0A615.01

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	DATE
As Shown	May 2024
DRAWN BY: AW	DESIGNED BY: AW/PD
CHECKED BY: GO	SHEET: 23 of 77

DRAWING NUMBER: EDQ-1 / EDQ-1

TOWNSHIP OF WOODBRIDGE

COUNTY OF MIDDLESEX

RAHWAY AVENUE/CR-514

CHESTNUT STREET
(50' WIDE R.O.W.)

BORMAN AVENUE
(50' WIDE R.O.W.)

PIPER AVENUE
(60' WIDE R.O.W.)

OMAR AVENUE
(70' WIDE R.O.W.)

MATCH LINE STA 8+25

MATCH LINE STA 17+50

BLOCK 928

BLOCK 935

BLOCK 936

BLOCK 937

BLOCK 1020.01

BLOCK 965

CONSTRUCT
44 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 4" WIDE WITH GLASS BEADS, BROKEN AT 4' SPACING, WHITE

CONSTRUCT
11 LF PAINT CONCRETE CURBING YELLOW

PROTECT EXISTING FIRE HYDRANT (TYP.)

CONSTRUCT
TRAFFIC MARKING, THERMOPLASTIC (TYP.)

CONSTRUCT
7 SF REGULATORY AND WARNING SIGNS (R(NJ)3-8B)

EXISTING LOOP DETECTORS

CONSTRUCT
360 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID, DOUBLE YELLOW

CONSTRUCT
69 SY SELECTIVE CLEARING

CONSTRUCT
390 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID, DOUBLE YELLOW

CONSTRUCT
HMA MILLING, 3" OR LESS (TYP.)
HOT MIX ASPHALT 9.5M64 SURFACE COURSE (TYP.)

CONSTRUCT
635 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID, DOUBLE YELLOW

CONSTRUCT
RECONSTRUCT INLET, TYPE B, 8" HEAD
STA. 8+18.16-25.48' LT,
TC 8.26 (P) GR 7.59 (P)

CONSTRUCT
15 LF 9" X 20" CONCRETE VERTICAL CURB
2 TON HOT MIX ASPHALT
19M64 BASE COURSE

CONSTRUCT
5 SF REGULATORY AND WARNING SIGNS (R4-1)

CONSTRUCT
170 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID, DOUBLE YELLOW

CONSTRUCT
5 CY EXCAVATION, UNCLASSIFIED
7 TON HOT MIX ASPHALT
19M64 BASE COURSE

CONSTRUCT
120 LF PAINT CONCRETE CURBING, YELLOW
BEGIN STA. 7+01.54-25.41' LT
END STA. 8+25.00-25.46' LT

CONSTRUCT
RESET MANHOLE CASTING, USING NEW CASTING AND COVER

CONSTRUCT
48 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 8" WIDE SOLID WHITE

CONSTRUCT
29 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 24" WIDE SOLID WHITE

LIMIT OF MILLING AND PAVING
℄ STA. 0+23.32± G 26.57±

CONSTRUCT
152 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 8" WIDE SOLID WHITE

CONSTRUCT
157 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 24" WIDE SOLID WHITE

SAWCUT, SEAL AND MATCH EXISTING PAVEMENT

RESET GAS VALVE BOX, BY OTHERS (TYP.)

BENCH MARK MN SET #1	
LOCATION	ELEVATION
STA. 0+46.70 28.83' RT.	27.07
N. 638,465.8505	E. 556,898.7748

BENCH MARK MN SET #2	
LOCATION	ELEVATION
STA. 8+40.63 25.27' LT.	8.59
N. 638,361.9749	E. 557,688.7319

BENCH MARK MN SET #3	
LOCATION	ELEVATION
STA. 11+91.72 25.22' RT.	9.67
N. 638,243.1730	E. 558,022.9453

BENCH MARK MN SET #4	
LOCATION	ELEVATION
STA. 15+73.65 25.30' LT.	9.28
N. 638,217.3096	E. 558,407.3364

BENCH MARK MN SET #1006	
LOCATION	ELEVATION
STA. 2+60.94 20.98' LT.	18.61
N. 638,472.1876	E. 557,119.6089

HIGH POINT
STA. 0+42.75 -31.04' LT.
TC 26.13 ±(E)
G 25.78 ±(E)

HIGH POINT
STA. 11+01.03 -24.87' RT.
TC 9.92 ±(E)
G 9.52 (P)

HIGH POINT
STA. 11+51.24 -25.17' LT.
TC 9.84 ±(E)
G 9.44 (P)

CONSTRUCT
10 CY EXCAVATION, UNCLASSIFIED
16 TON HOT MIX ASPHALT
19M64 BASE COURSE

CONSTRUCT
327 LF 9" X 20" CONCRETE VERTICAL CURB
30 TON HOT MIX ASPHALT
19M64 BASE COURSE

CONSTRUCT
276 LF PAINT CONCRETE CURBING, YELLOW
BEGIN STA. 8+25.00-25.46' LT
END STA. 11+01.00-25.67' LT

CONSTRUCT
5 SF REGULATORY AND WARNING SIGNS (R4-1)

CONSTRUCT
TOPSOIL SPREADING, 4" THICK
FERTILIZING AND SEEDING
TOPSOIL STABILIZATION, TYPE 2MAT

REMOVE EXISTING CURB OR CURB AND GUTTER (TYP.)

CONSTRUCT
437 LF PAINT CONCRETE CURBING, YELLOW
BEGIN STA. 13+09.00-25.68' LT
END STA. 17+50.00-25.38' LT

CONSTRUCT
872 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID WHITE

CONSTRUCT
100 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID, DOUBLE YELLOW

CONSTRUCT
16 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 24" WIDE SOLID WHITE

CONSTRUCT
CONCRETE SIDEWALKS, 4" THICK (TYP.)

CONSTRUCT
24 LF 9" X 20" CONCRETE VERTICAL CURB WITH DEPRESSION FOR HANDICAP RAMP
3 TON HOT MIX ASPHALT 19M64 BASE COURSE

CONSTRUCT
6 SF REGULATORY AND WARNING SIGNS (R1-1)

CONSTRUCT
DETECTABLE WARNING SURFACE (TYP.)

CONSTRUCT
21 LF 9" X 20" CONCRETE VERTICAL CURB WITH DEPRESSION FOR HANDICAP RAMP
2 TON HOT MIX ASPHALT 19M64 BASE COURSE

CONSTRUCT
20 LF 9" X 20" CONCRETE VERTICAL CURB
2 TON HOT MIX ASPHALT 19M64 BASE COURSE

CONSTRUCT
5 SF REGULATORY AND WARNING SIGNS (R4-1)

CONSTRUCT
42 CY EXCAVATION, UNCLASSIFIED
69 TON HOT MIX ASPHALT
19M64 BASE COURSE

CONSTRUCT
3 SF REGULATORY AND WARNING SIGNS (R(NJ)7-4X)

CONSTRUCT
3 SF REGULATORY AND WARNING SIGNS (R(NJ)7-4L)

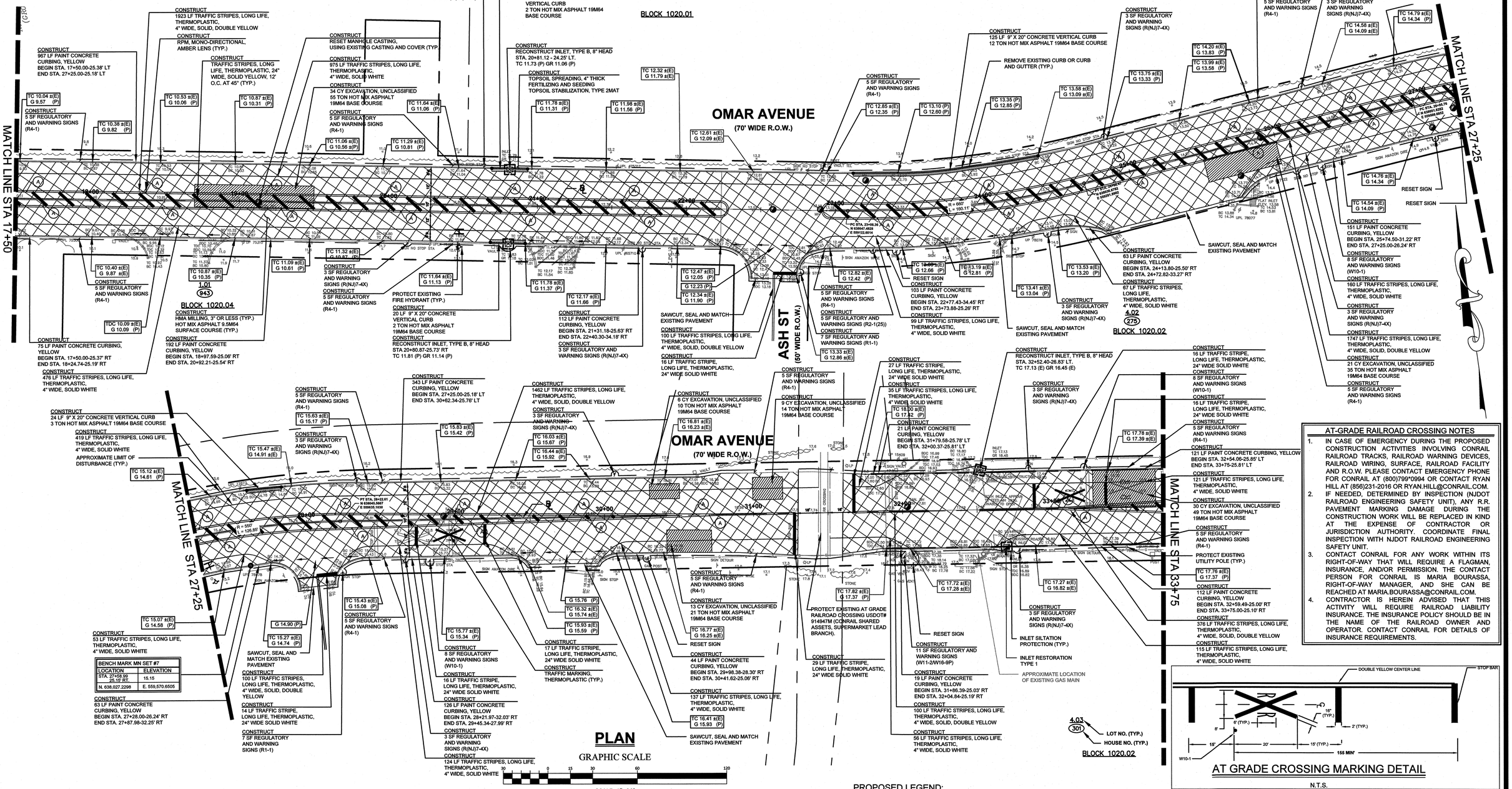
CONSTRUCT
56 LF PAINT CONCRETE CURBING, YELLOW
BEGIN STA. 7+72.87-38.04' RT
END STA. 8+25.00-25.24' RT

CONSTRUCT
5 SF REGULATORY AND WARNING SIGNS (R4-1)

CONSTRUCT
3 SF REGULATORY AND WARNING SIGNS (R(NJ)7-4X

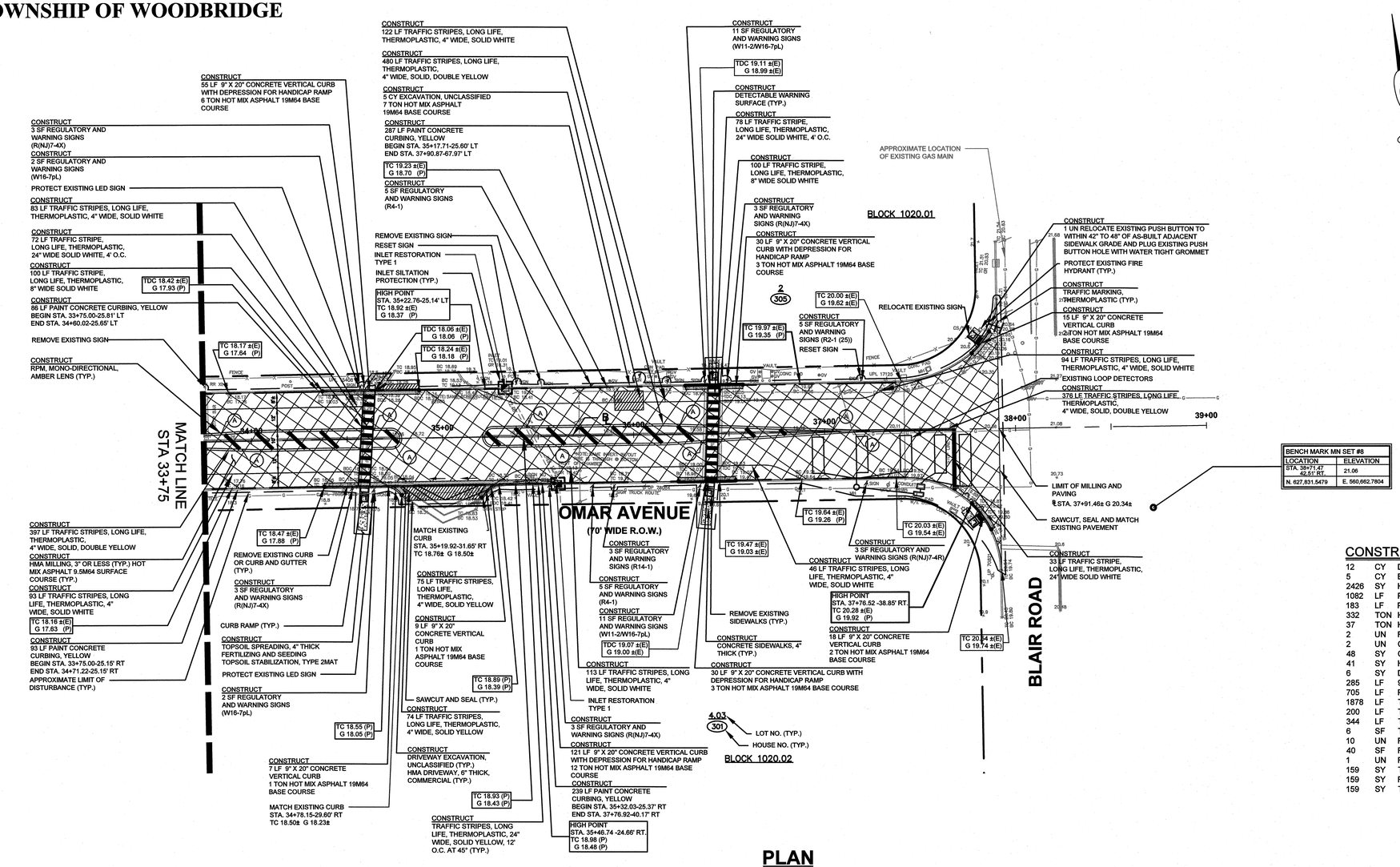
TOWNSHIP OF WOODBRIDGE

COUNTY OF MIDDLESEX


MATCH LINE STA 17+50
MATCH LINE STA 27+25
MATCH LINE STA 33+75
OMAR AVENUE
(70' WIDE R.O.W.)
ASH ST
(50' WIDE R.O.W.)
BLOCK 1020.01
BLOCK 1020.02
BLOCK 1020.04
CONSTRUCT 1923 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID, DOUBLE YELLOW
CONSTRUCT RPM, MONO-DIRECTIONAL, AMBER LENS (TYP.)
CONSTRUCT TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 24" WIDE, SOLID YELLOW, 12' O.C. AT 45° (TYP.)
CONSTRUCT 967 LF PAINT CONCRETE CURBING, YELLOW BEGIN STA. 17+50.00-25.38' LT END STA. 27+25.00-25.18' LT
CONSTRUCT 5 SF REGULATORY AND WARNING SIGNS (R4-1)
CONSTRUCT 3 SF REGULATORY AND WARNING SIGNS (R(NJ)7-4X)
CONSTRUCT RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER (TYP.)
CONSTRUCT 975 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID WHITE
CONSTRUCT 34 CY EXCAVATION, UNCLASSIFIED 55 TON HOT MIX ASPHALT 19M64 BASE COURSE
CONSTRUCT 5 SF REGULATORY AND WARNING SIGNS (R4-1)
CONSTRUCT 3 SF REGULATORY AND WARNING SIGNS (R(NJ)7-4X)
CONSTRUCT 3 SF REGULATORY AND WARNING SIGNS (R4-1)
CONSTRUCT 20 LF 9" X 20" CONCRETE VERTICAL CURB 2 TON HOT MIX ASPHALT 19M64 BASE COURSE
CONSTRUCT RECONSTRUCT INLET, TYPE B, 8" HEAD STA. 20+81.12 - 24.26' LT. TC 11.73 (P) GR 11.06 (P)
CONSTRUCT TOPSOIL SPREADING, 4" THICK FERTILIZING AND SEEDING TOPSOIL STABILIZATION, TYPE 2MAT
CONSTRUCT 5 SF REGULATORY AND WARNING SIGNS (R4-1)
CONSTRUCT 125 LF 9" X 20" CONCRETE VERTICAL CURB 12 TON HOT MIX ASPHALT 19M64 BASE COURSE
REMOVE EXISTING CURB OR CURB AND GUTTER (TYP.)
CONSTRUCT 3 SF REGULATORY AND WARNING SIGNS (R(NJ)7-4X)
CONSTRUCT 5 SF REGULATORY AND WARNING SIGNS (R4-1)
CONSTRUCT 3 SF REGULATORY AND WARNING SIGNS (R(NJ)7-4X)
CONSTRUCT 151 LF PAINT CONCRETE CURBING, YELLOW BEGIN STA. 25+74.50-31.22' RT END STA. 27+25.00-26.24' RT
CONSTRUCT 8 SF REGULATORY AND WARNING SIGNS (W10-1)
CONSTRUCT 160 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID WHITE
CONSTRUCT 3 SF REGULATORY AND WARNING SIGNS (R(NJ)7-4X)
CONSTRUCT 1747 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID, DOUBLE YELLOW
CONSTRUCT 21 CY EXCAVATION, UNCLASSIFIED 35 TON HOT MIX ASPHALT 19M64 BASE COURSE
CONSTRUCT 5 SF REGULATORY AND WARNING SIGNS (R4-1)
CONSTRUCT 63 LF PAINT CONCRETE CURBING, YELLOW BEGIN STA. 24+13.80-25.50' RT END STA. 24+72.82-33.27' RT
CONSTRUCT 67 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID WHITE
CONSTRUCT 3 SF REGULATORY AND WARNING SIGNS (R(NJ)7-4X)
SAWCUT, SEAL AND MATCH EXISTING PAVEMENT
CONSTRUCT 75 LF PAINT CONCRETE CURBING, YELLOW BEGIN STA. 17+50.00-25.37' RT END STA. 18+24.74-25.19' RT
CONSTRUCT 476 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID WHITE
CONSTRUCT 5 SF REGULATORY AND WARNING SIGNS (R4-1)
CONSTRUCT HMA MILLING, 3" OR LESS (TYP.) HOT MIX ASPHALT 9.5M64 SURFACE COURSE (TYP.)
CONSTRUCT 192 LF PAINT CONCRETE CURBING, YELLOW BEGIN STA. 18+97.59-25.06' RT END STA. 20+92.21-25.54' RT
CONSTRUCT 3 SF REGULATORY AND WARNING SIGNS (R(NJ)7-4X)
CONSTRUCT 5 SF REGULATORY AND WARNING SIGNS (R4-1)
PROTECT EXISTING FIRE HYDRANT (TYP.)
CONSTRUCT 20 LF 9" X 20" CONCRETE VERTICAL CURB 2 TON HOT MIX ASPHALT 19M64 BASE COURSE
CONSTRUCT RECONSTRUCT INLET, TYPE B, 8" HEAD STA 20+80.87-25.73' RT TC 11.81 (P) GR 11.14 (P)
CONSTRUCT 112 LF PAINT CONCRETE CURBING, YELLOW BEGIN STA. 21+31.18-25.63' RT END STA. 22+40.30-34.18' RT
CONSTRUCT 3 SF REGULATORY AND WARNING SIGNS (R(NJ)7-4X)
SAWCUT, SEAL AND MATCH EXISTING PAVEMENT
CONSTRUCT 100 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID, DOUBLE YELLOW
CONSTRUCT 16 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 24" WIDE SOLID WHITE
CONSTRUCT 5 SF REGULATORY AND WARNING SIGNS (R4-1)
CONSTRUCT 103 LF PAINT CONCRETE CURBING, YELLOW BEGIN STA. 22+77.43-34.45' RT END STA. 23+73.88-25.26' RT
CONSTRUCT 99 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID WHITE
CONSTRUCT 5 SF REGULATORY AND WARNING SIGNS (R2-1(25))
CONSTRUCT 7 SF REGULATORY AND WARNING SIGNS (R1-1)
SAWCUT, SEAL AND MATCH EXISTING PAVEMENT
CONSTRUCT 3 SF REGULATORY AND WARNING SIGNS (R(NJ)7-4X)
CONSTRUCT 343 LF PAINT CONCRETE CURBING, YELLOW BEGIN STA. 27+25.00-25.18' LT END STA. 30+62.34-25.76' LT
CONSTRUCT 1462 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID, DOUBLE YELLOW
CONSTRUCT 3 SF REGULATORY AND WARNING SIGNS (R(NJ)7-4X)
CONSTRUCT 6 CY EXCAVATION, UNCLASSIFIED 10 TON HOT MIX ASPHALT 19M64 BASE COURSE
CONSTRUCT 5 SF REGULATORY AND WARNING SIGNS (R4-1)
CONSTRUCT 9 CY EXCAVATION, UNCLASSIFIED 14 TON HOT MIX ASPHALT 19M64 BASE COURSE
CONSTRUCT 27 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 24" WIDE SOLID WHITE
CONSTRUCT 35 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID WHITE
CONSTRUCT 21 LF PAINT CONCRETE CURBING, YELLOW BEGIN STA. 31+79.58-25.78' LT END STA. 32+00.37-25.81' LT
CONSTRUCT RECONSTRUCT INLET, TYPE B, 8" HEAD STA. 32+52.40-26.83' LT. TC 17.13 (E) GR 16.45 (E)
CONSTRUCT 3 SF REGULATORY AND WARNING SIGNS (R(NJ)7-4X)
CONSTRUCT 16 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 24" WIDE SOLID WHITE
CONSTRUCT 8 SF REGULATORY AND WARNING SIGNS (W10-1)
CONSTRUCT 16 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 24" WIDE SOLID WHITE
CONSTRUCT 5 SF REGULATORY AND WARNING SIGNS (R4-1)
CONSTRUCT 121 LF PAINT CONCRETE CURBING, YELLOW BEGIN STA. 32+54.06-25.85' LT END STA. 33+75.25-81' LT
CONSTRUCT 121 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID WHITE
CONSTRUCT 30 CY EXCAVATION, UNCLASSIFIED 49 TON HOT MIX ASPHALT 19M64 BASE COURSE
CONSTRUCT 5 SF REGULATORY AND WARNING SIGNS (R4-1)
PROTECT EXISTING UTILITY POLE (TYP.)
CONSTRUCT 112 LF PAINT CONCRETE CURBING, YELLOW BEGIN STA. 32+59.49-25.00' RT END STA. 33+75.00-25.10' RT
CONSTRUCT 376 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID, DOUBLE YELLOW
CONSTRUCT 115 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID WHITE
CONSTRUCT 24 LF 9" X 20" CONCRETE VERTICAL CURB 3 TON HOT MIX ASPHALT 19M64 BASE COURSE
CONSTRUCT 419 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID WHITE
APPROXIMATE LIMIT OF DISTURBANCE (TYP.)
CONSTRUCT 5 SF REGULATORY AND WARNING SIGNS (R4-1)
CONSTRUCT 3 SF REGULATORY AND WARNING SIGNS (R(NJ)7-4X)
CONSTRUCT 53 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID WHITE
CONSTRUCT 63 LF PAINT CONCRETE CURBING, YELLOW BEGIN STA. 27+28.00-26.24' RT END STA. 27+87.98-32.25' RT
CONSTRUCT 100 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID, DOUBLE YELLOW
CONSTRUCT 14 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 24" WIDE SOLID WHITE
CONSTRUCT 7 SF REGULATORY AND WARNING SIGNS (R1-1)
CONSTRUCT 8 SF REGULATORY AND WARNING SIGNS (W10-1)
CONSTRUCT 16 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 24" WIDE SOLID WHITE
CONSTRUCT 126 LF PAINT CONCRETE CURBING, YELLOW BEGIN STA. 28+21.97-32.03' RT END STA. 29+45.34-27.99' RT
CONSTRUCT 3 SF REGULATORY AND WARNING SIGNS (R(NJ)7-4X)
CONSTRUCT 124 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID WHITE
CONSTRUCT 5 SF REGULATORY AND WARNING SIGNS (R4-1)
CONSTRUCT 13 CY EXCAVATION, UNCLASSIFIED 21 TON HOT MIX ASPHALT 19M64 BASE COURSE
CONSTRUCT 17 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 24" WIDE SOLID WHITE
CONSTRUCT TRAFFIC MARKING, THERMOPLASTIC (TYP.)
CONSTRUCT 44 LF PAINT CONCRETE CURBING, YELLOW BEGIN STA. 29+98.38-28.30' RT END STA. 30+41.62-25.06' RT
CONSTRUCT 137 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID WHITE
SAWCUT, SEAL AND MATCH EXISTING PAVEMENT
PROTECT EXISTING AT GRADE RAILROAD CROSSING USDOT# 914947M (CONRAIL SHARED ASSETS, SUPERMARKET LEAD BRANCH).
CONSTRUCT 29 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 24" WIDE SOLID WHITE
CONSTRUCT 11 SF REGULATORY AND WARNING SIGNS (W11-2/W16-9P)
CONSTRUCT 19 LF PAINT CONCRETE CURBING, YELLOW BEGIN STA. 31+86.39-25.03' RT END STA. 32+04.84-25.19' RT
CONSTRUCT 100 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID, DOUBLE YELLOW
CONSTRUCT 56 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID WHITE
INLET SILTATION PROTECTION (TYP.)
INLET RESTORATION TYPE 1
APPROXIMATE LOCATION OF EXISTING GAS MAIN
RESET SIGN
SIGN NO STOP STA
SIGN AMAZON DRIVE
SIGN DETOUR
SIGN STOP
SIGN
GAS POST
STONE
CHIP
INLET
VALVE
MANHOLE
UTILITY POLE
TC 10.04 ±(E) G 9.57 (P)
TC 10.38 ±(E) G 9.82 (P)
TC 10.53 ±(E) G 10.06 (P)
TC 10.87 ±(E) G 10.31 (P)
TC 11.06 ±(E) G 10.56 ±(P)
TC 11.29 ±(E) G 10.81 (P)
TC 11.64 ±(E) G 11.06 (P)
TC 11.78 ±(E) G 11.31 (P)
TC 11.98 ±(E) G 11.56 (P)
TC 12.32 ±(E) G 11.79 ±(E)
TC 12.61 ±(E) G 12.09 ±(E)
TC 12.85 ±(E) G 12.35 (P)
TC 13.10 (P) G 12.60 (P)
TC 13.35 (P) G 12.85 (P)
TC 13.58 ±(E) G 13.09 ±(E)
TC 13.75 ±(E) G 13.33 (P)
TC 13.99 ±(E) G 13.58 (P)
TC 14.20 ±(E) G 13.83 (P)
TC 14.58 ±(E) G 14.09 ±(E)
TC 14.79 ±(E) G 14.34 (P)
TC 14.76 ±(E) G 14.34 (P)
TC 14.54 ±(E) G 14.09 (P)
TC 13.53 ±(E) G 13.20 (P)
TC 13.41 ±(E) G 13.04 (P)
TC 13.19 ±(E) G 12.81 (P)
TC 12.82 ±(E) G 12.42 (P)
TC 12.47 ±(E) G 12.05 (P)
TC 12.23 (P)
TC 12.34 ±(E) G 11.90 (P)
TC 12.17 ±(E) G 11.66 (P)
TC 11.78 ±(E) G 11.37 (P)
TC 11.84 ±(E) G 11.13 (P)
TC 11.32 ±(E) G 10.87 (P)
TC 11.09 ±(E) G 10.81 (P)
TC 10.87 ±(E) G 10.35 (P)
TC 10.40 ±(E) G 9.87 ±(E)
TDC 10.09 ±(E) G 10.09 (P)
TC 13.33 ±(E) G 12.86 ±(E)
TC 13.00 ±(E) G 17.82 (P)
TC 17.82 ±(E) G 17.37 (P)
TC 17.78 ±(E) G 17.39 ±(E)
TC 17.72 ±(E) G 17.28 ±(E)
TC 17.27 ±(E) G 16.82 ±(E)
TC 16.81 ±(E) G 16.23 ±(E)
TC 16.03 ±(E) G 15.67 (P)
TC 16.44 ±(E) G 15.92 (P)
TC 15.83 ±(E) G 15.42 (P)
TC 15.47 ±(E) G 14.91 ±(E)
TC 15.63 ±(E) G 15.17 (P)
TC 15.12 ±(E) G 14.61 (P)
TC 15.07 ±(E) G 14.58 (P)
TC 15.43 ±(E) G 15.08 (P)
TC 15.77 ±(E) G 15.34 (P)
TC 16.32 ±(E) G 15.74 ±(E)
TC 15.93 ±(E) G 15.59 (P)
TC 16.41 ±(E) G 15.93 (P)
TC 15.27 ±(E) G 14.74 (P)
G 14.90 (P)
G 15.76 (P)
RESET SIGN
RESET SIGN
RESET SIGN
1.01 943
4.02 275
4.03 301
LOT NO. (TYP.)
HOUSE NO. (TYP.)
PT STA. 28+22.61 N 638045.5967 E 599635.1650
PT STA. 33+08.39 N 638047.4839 E 599722.6814
PT STA. 27+92.76 N 638061.8552 E 599585.8552
PT STA. 33+75.00 N 638061.8552 E 599585.8552
FLAT INLET ELEV. 13.58 TC 14.34 UPL 78077
UPL 78078
UPL 78079
UPL 78076
UPL #65710
UPL 15409
UPL 15410
UPL 15411
UPL 15412
UPL 15413
UPL 15414
UPL 15415
UPL 15416
UPL 15417
UPL 15418
UPL 15419
UPL 15420
UPL 15421
UPL 15422
UPL 15423
UPL 15424
UPL 15425
UPL 15426
UPL 15427
UPL 15428
UPL

TOWNSHIP OF WOODBRIDGE

COUNTY OF MIDDLESEX



BENCH MARK MN SET #8	
LOCATION	ELEVATION
STA. 35+71.47 42.51' RT.	21.06
N. 627,831.5479	E. 560,662.7804

CONSTRUCT (OMAR AVENUE (3 OF 3))

12	CY	DRIVEWAY EXCAVATION, UNCLASSIFIED
5	CY	EXCAVATION, UNCLASSIFIED
2426	SY	HMA MILLING, 3" OR LESS
1082	LF	POLYMERIZED JOINT ADHESIVE
183	LF	PREPARE & SEAL EXISTING JOINTS & CRACKS IN ASPHALT PAVEMENT
332	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
37	TON	HOT MIX ASPHALT 19M64 BASE COURSE
2	UN	RESET EXISTING CASTING
2	UN	CURB PIECE TYPE "N-ECO"
48	SY	CONCRETE SIDEWALKS, 4" THICK
41	SY	HOT MIX ASPHALT DRIVEWAY RESTORATION, 6" THICK, COMMERCIAL
6	SY	DETECTABLE WARNING SURFACE
285	LF	9" X 20" CONCRETE VERTICAL CURB
705	LF	PAINT CONCRETE CURBING, YELLOW
1878	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
200	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
344	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
6	SF	TRAFFIC MARKINGS, THERMOPLASTIC
10	UN	RPM, MONO-DIRECTIONAL, AMBER LENS
40	SF	REGULATORY AND WARNING SIGNS
1	UN	RELOCATE EXISTING PUSH BUTTON
159	SY	TOPSOILING, 4" THICK
159	SY	FERTILIZING AND SEEDING
159	SY	TOPSOIL STABILIZATION, TYPE 2MAT

4.03 / 301 — LOT NO. (TYP.), HOUSE NO. (TYP.)

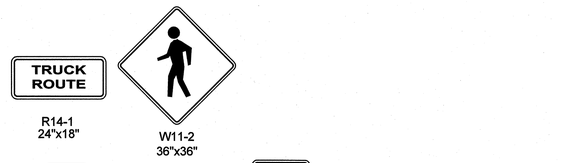
BLOCK 1020.02

PLAN

GRAPHIC SCALE

30 0 15 30 60 120

SCALE: 1"=30'



SIGN LEGEND

N.T.S.

* RAISED PAVEMENT MARKER (RPM)
(A) A = RPM, MONO-DIRECTIONAL, AMBER LENS

RPM LEGEND

NOT TO SCALE

SPECIAL PROVISIONS

THE CONTRACTOR IS SPECIFICALLY DIRECTED TO THE REQUIREMENTS CONTAINED IN THE SPECIAL PROVISIONS SECTION OF THE CONTRACT SPECIFICATIONS.

PROPOSED CURB AND/OR ROADWAY REPLACEMENT

THE CONTRACTOR IS ADVISED THAT THEIR LICENSED LAND SURVEYOR SHALL PROVIDE THE CONSTRUCTION STAKEOUT FOR THE PROJECT AND THAT IS THE INTENT OF THE CONTRACT DOCUMENTS TO INSTALL THE NEW CURB, EDGE OF PAVEMENT, AND ROADWAY AT ITS PRESENT HORIZONTAL LOCATION AND VERTICAL LOCATION EXCEPT WHERE PROPOSED GRADES HAVE BEEN INDICATED ON THE PLAN. ACCORDINGLY, THE FULL RESPONSIBILITY FOR KEEPING AND MAINTAINING THE EXISTING ALIGNMENT AND GRADE PRIOR TO REMOVAL OF THE EXISTING CURB AND MILLING AND/OR EXCAVATION OF THE PAVEMENT SHALL REST UPON THE CONTRACTOR IN ACCORDANCE WITH DIVISION 1 GENERAL REQUIREMENTS SECTION 1-4.4 OF THE PROJECT SPECIFICATIONS.

INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
- DENOTES RECONSTRUCT INLET
- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
- DENOTES APPROXIMATE LOCATION OF EXISTING HIGH POINT
- DENOTES APPROXIMATE LOCATION OF EXISTING LOW POINT
- DENOTES TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC WITH GLASS BEADS, FOR FIRE HYDRANT
- DENOTES PAINT CONCRETE CURBING, YELLOW
- DENOTES BENCH MARK LOCATION
- DENOTES EXISTING TREES OR STUMPS TO BE REMOVED
- DENOTES RESET BRICKWALK/ PAVERS
- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
- DENOTES CONCRETE DRIVEWAY RESTORATION
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE EXCAVATION) AND PAVING WITH 19M64 BASE COURSE
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE TEMPORARY TRENCH REPAIR)
- DENOTES PROPOSED CONCRETE SIDEWALK AND DRIVEWAY APRON
- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE AND 3" HOT MIX ASPHALT 19M64 BASE COURSE
- DENOTES AREA TO BE MILLED AND RECEIVE MIN. 2" HMA 9.5M64 SURFACE COURSE
- DENOTES AREA TO BE MILLED, EXISTING CRACK TO BE CLEANED AND SEALED, AND GEO COMPOSITE MATERIAL TO BE INSTALLED
- DENOTES AREA TO BE EXCAVATED UP TO 9" AND RECEIVE HMA 19M64 BASE COURSE
- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE 7" HOT MIX ASPHALT 19M64 BASE COURSE 6" DENSE GRADED AGGREGATE BASE COURSE
- DENOTES ROADWAY TRENCH REPAIR AREA 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE 7" HOT MIX ASPHALT 19M64 BASE COURSE 6" DENSE GRADED AGGREGATE BASE COURSE

No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION AND SOIL EROSION & SEDIMENT CONTROL PLAN

OMAR AVENUE (3 OF 3) STA. 33+75 TO STA. 37+92

WARD 3

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
(732) 727 8000 (732) 462 7400
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

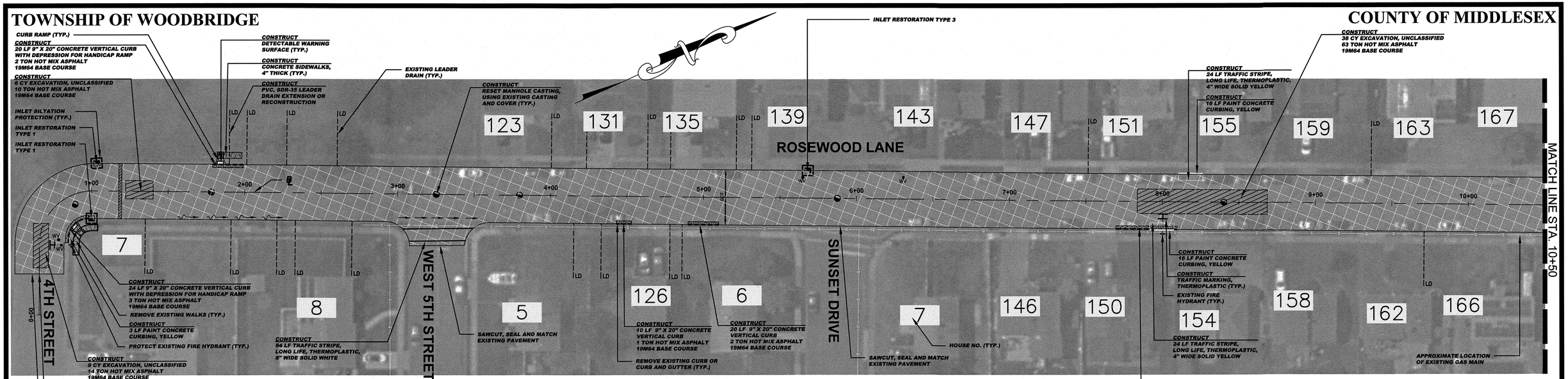
SCALE	DATE
As Shown	May 2024
DRAWN BY: AW	DESIGNED BY: AW/PD
CHECKED BY:	SHEET: 26 of 77

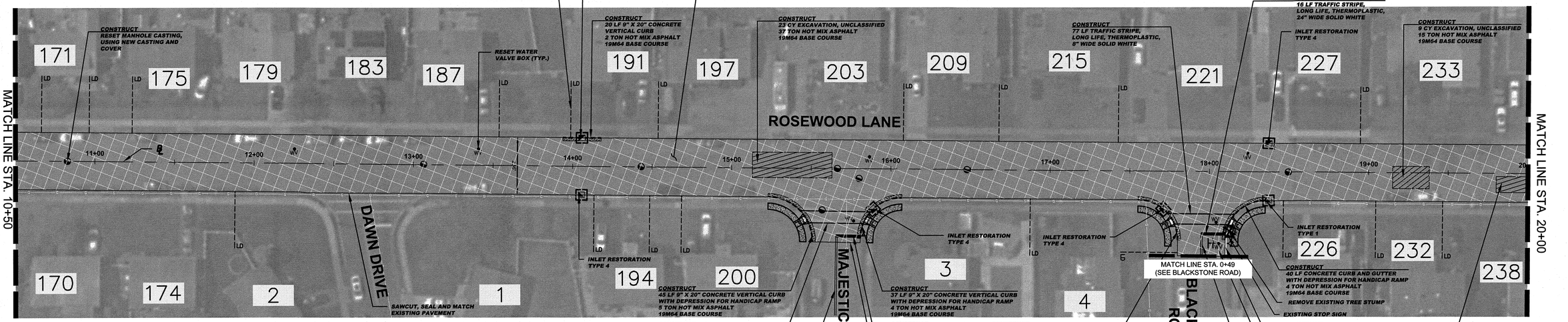
DRAWING NUMBER: C-22, C-52

REGISTER NO. FILE NO. PWB0A615.01

TOWNSHIP OF WOODBRIDGE

COUNTY OF MIDDLESEX





CONSTRUCT (ROSEWOOD LANE (1 OF 2))

91	CY	EXCAVATION, UNCLASSIFIED
8224	SY	HMA MILLING, 3" OR LESS
8013	LF	POLYMERIZED JOINT ADHESIVE
266	LF	PREPARE & SEAL EXISTING JOINTS & CRACKS IN ASPHALT PAVEMENT
36	LF	PREPARE & SEAL EXISTING TRANSVERSE CRACKS IN ASPHALT PAVEMENT WITH PAVEMENT REPAIR GEO COMPOSITE MEMBRANE
1164	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
180	TON	HOT MIX ASPHALT 19M64 BASE COURSE
2	UN	PVC, SDR-35 LEADER DRAIN EXTENSION OR RECONSTRUCTION
13	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
1	UN	RESET MANHOLE CASTING, USING NEW CASTING AND COVER
8	UN	RESET EXISTING CASTING
4	UN	CURB PIECE TYPE "N-ECO"
1	UN	BICYCLE SAFE GRATE
1	UN	RECONSTRUCT INLET, 6" HEAD TYPE B
96	SY	CONCRETE SIDEWALKS, 4" THICK
8	SY	DETECTABLE WARNING SURFACE
292	LF	9" X 20" CONCRETE VERTICAL CURB
53	LF	PAINT CONCRETE CURBING, YELLOW
176	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
241	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
32	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
18	SF	TRAFFIC MARKINGS, THERMOPLASTIC
11	UN	RESET WATER VALVE BOX
163	SY	TOPSOILING, 4" THICK
163	SY	FERTILIZING AND SEEDING
163	SY	TOPSOIL STABILIZATION, TYPE 2MAT

SPECIAL PROVISIONS

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GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft.

INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
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- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
- DENOTES APPROXIMATE LOCATION OF EXISTING HIGH POINT
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- DENOTES TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC WITH GLASS BEADS, FOR FIRE HYDRANT
- DENOTES PAINT CONCRETE CURBING, YELLOW
- DENOTES BENCH MARK LOCATION
- DENOTES EXISTING TREES OR STUMPS TO BE REMOVED
- DENOTES RESET BRICKWALK/ PAVERS
- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
- DENOTES CONCRETE DRIVEWAY RESTORATION
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE EXCAVATION) AND PAVING WITH 19M64 BASE COURSE
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE TEMPORARY TRENCH REPAIR)
- DENOTES PROPOSED CONCRETE SIDEWALK AND DRIVEWAY APRON
- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE AND 3" HOT MIX ASPHALT 19M64 BASE COURSE
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No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – ROSEWOOD LANE (1 OF 2)

WARD 3

REGISTER NO. 24GA04615500

FILE NO. PWB0A615.01

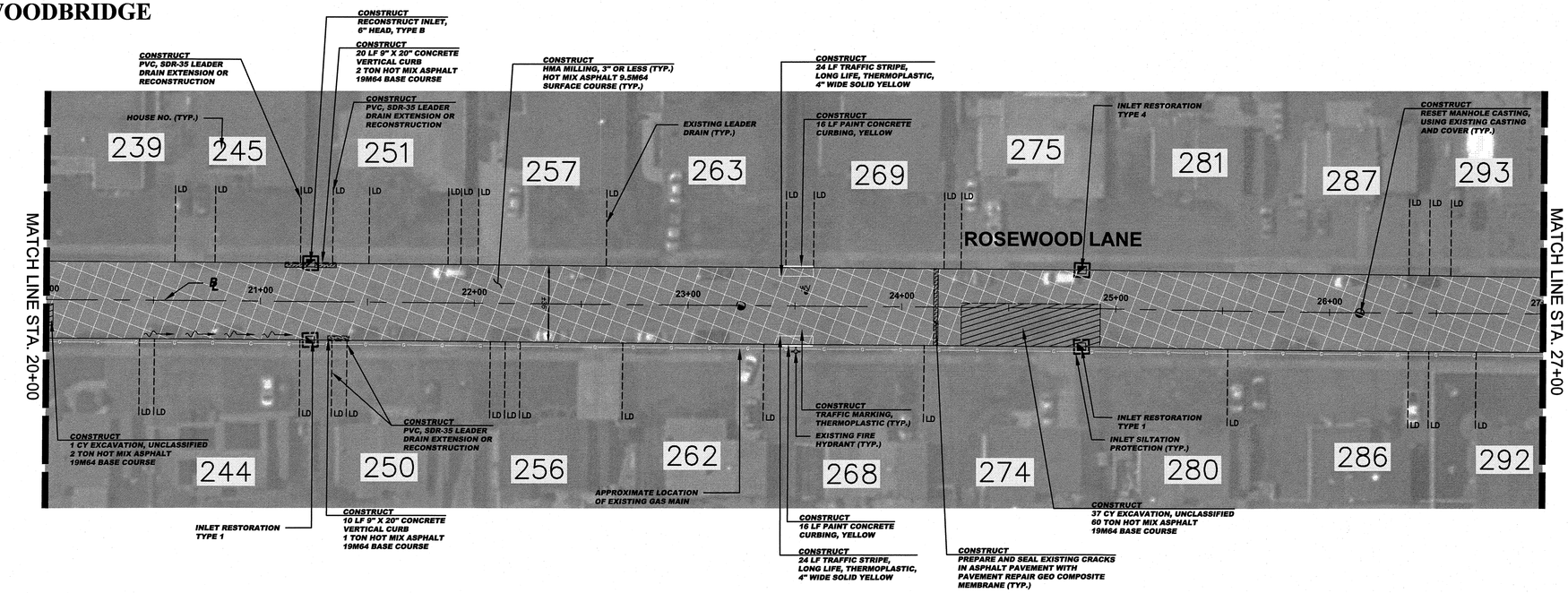
CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28299000
(732) 727 8000 (732) 462 7400
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

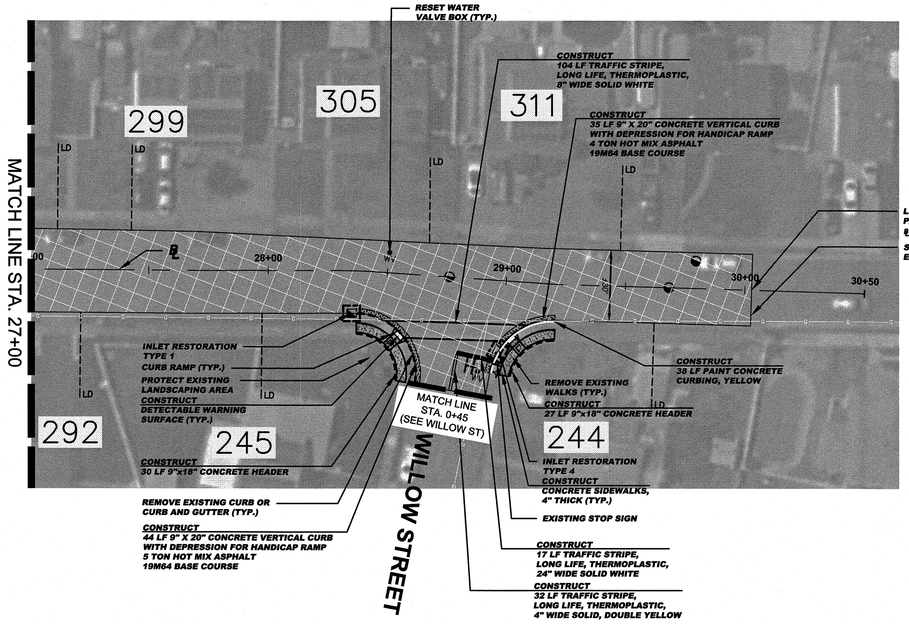
GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
DRAWN BY	AW
DESIGNED BY	AW/PD
CHECKED BY	GO
SHEET	27 of 77

DRAWING NUMBER C-23 C-52

TOWNSHIP OF WOODBRIDGE | **COUNTY OF MIDDLESEX**





CONSTRUCT (ROSEWOOD LANE (2 OF 2))

38	CY	EXCAVATION, UNCLASSIFIED
4004	SY	HMA MILLING, 3" OR LESS
3870	LF	POLYMERIZED JOINT ADHESIVE
30	LF	PREPARE & SEAL EXISTING JOINTS & CRACKS IN ASPHALT PAVEMENT
36	LF	PREPARE & SEAL EXISTING TRANSVERSE CRACKS IN ASPHALT PAVEMENT WITH PAVEMENT REPAIR GEO COMPOSITE MEMBRANE
571	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
74	TON	HOT MIX ASPHALT 19M64 BASE COURSE
4	UN	PVC, SDR-35 LEADER DRAIN EXTENSION OR RECONSTRUCTION
5	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
5	UN	RESET EXISTING CASTING
3	UN	CURB PIECE TYPE "N-ECO"
1	UN	RECONSTRUCT INLET, 6" HEAD, TYPE B
34	SY	CONCRETE SIDEWALKS, 4" THICK
2	SY	DETECTABLE WARNING SURFACE
109	LF	9" X 20" CONCRETE VERTICAL CURB
57	LF	9"x18" CONCRETE HEADER
70	LF	PAINT CONCRETE CURBING, YELLOW
80	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
104	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
17	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
12	SF	TRAFFIC MARKINGS, THERMOPLASTIC
3	UN	RESET WATER VALVE BOX
61	SY	TOPSOILING, 4" THICK
61	SY	FERTILIZING AND SEEDING
61	SY	TOPSOIL STABILIZATION, TYPE 2MAT

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

SPECIAL PROVISIONS

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INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
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- DENOTES BENCH MARK LOCATION
- DENOTES EXISTING TREES OR STUMPS TO BE REMOVED
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- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
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- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE EXCAVATION) AND PAVING WITH 19M64 BASE COURSE
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- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE AND 3" HOT MIX ASPHALT 19M64 BASE COURSE
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No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – ROSEWOOD LANE (2 OF 2)

WARD 3

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 (732) 727 8000
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194 (732) 462 7400

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
DRAWN BY	AW
DESIGNED BY	AW/PD
CHECKED BY	GO
SHEET	28 of 77

DRAWING NUMBER: C-24 / C-52

REGISTER NO. FILE NO. PWB0A615.01

TOWNSHIP OF WOODBRIDGE

COUNTY OF MIDDLESEX

CONSTRUCT (TAPPEN STREET)

3	CY	DRIVEWAY EXCAVATION, UNCLASSIFIED
798	CY	EXCAVATION, UNCLASSIFIED
11247	LF	POLYMERIZED JOINT ADHESIVE
302	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT
676	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
1027	TON	HOT MIX ASPHALT 19M64 BASE COURSE
15	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
8	UN	RESET EXISTING CASTING
2	UN	CURB PIECE TYPE "P-ECO"
21	SY	CONCRETE SIDEWALKS, 4" THICK
10	SY	CONCRETE DRIVEWAYS AND APRONS, REINFORCED, 6" THICK
2	UN	DETECTABLE WARNING SURFACE
261	LF	9"X20" CONCRETE VERTICAL CURB
128	LF	PAINT CONCRETE CURBING
528	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
138	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
91	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
12	SF	TRAFFIC MARKINGS, THERMOPLASTIC
12	UN	RESET WATER VALVE BOX
4	UN	RESET GAS VALVE BOX
145	SY	TOPSOILING, 4" THICK
145	SY	FERTILIZING AND SEEDING
145	SY	TOPSOIL STABILIZATION, TYPE 2MAT

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft.

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INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
- DENOTES RECONSTRUCT INLET
- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
- DENOTES APPROXIMATE LOCATION OF EXISTING HIGH POINT
- DENOTES APPROXIMATE LOCATION OF EXISTING LOW POINT
- DENOTES TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC WITH GLASS BEADS, FOR FIRE HYDRANT
- DENOTES PAINT CONCRETE CURBING, YELLOW
- DENOTES BENCH MARK LOCATION
- DENOTES EXISTING TREES OR STUMPS TO BE REMOVED
- DENOTES RESET BRICKWALK/ PAVERS
- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
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- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE EXCAVATION) AND PAVING WITH 19M64 BASE COURSE
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE TEMPORARY TRENCH REPAIR)
- DENOTES PROPOSED CONCRETE SIDEWALK AND DRIVEWAY APRON
- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE AND 3" HOT MIX ASPHALT 19M64 BASE COURSE
- DENOTES AREA TO BE MILLED AND RECEIVE MIN. 2" HMA 9.5M64 SURFACE COURSE
- DENOTES AREA TO BE MILLED, EXISTING CRACK TO BE CLEANED AND SEALED, AND GEO COMPOSITE MATERIAL TO BE INSTALLED
- DENOTES AREA TO BE EXCAVATED UP TO 9" AND RECEIVE HMA 19M64 BASE COURSE
- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE 7" HOT MIX ASPHALT 19M64 BASE COURSE 6" DENSE GRADED AGGREGATE BASE COURSE
- DENOTES ROADWAY TRENCH REPAIR AREA 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE 7" HOT MIX ASPHALT 19M64 BASE COURSE 6" DENSE GRADED AGGREGATE BASE COURSE

No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – TAPPEN STREET

WARD 3

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
(732) 727 8000 (732) 462 7400
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28039900

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
DRAWN BY	ER
DESIGNED BY	ER/PD
CHECKED BY	
SHEET	29 of 77

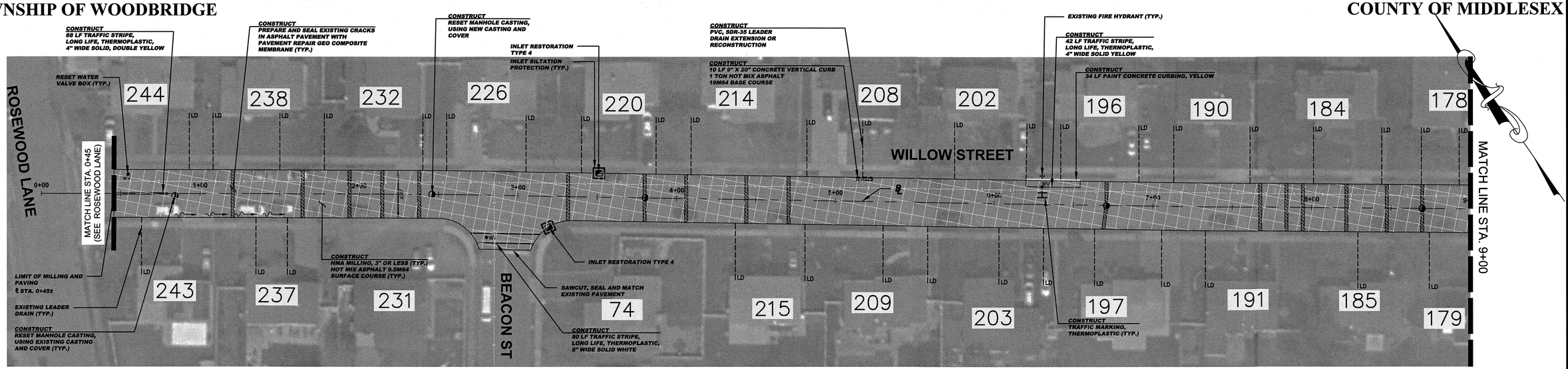
DRAWING NUMBER C-25 C-52

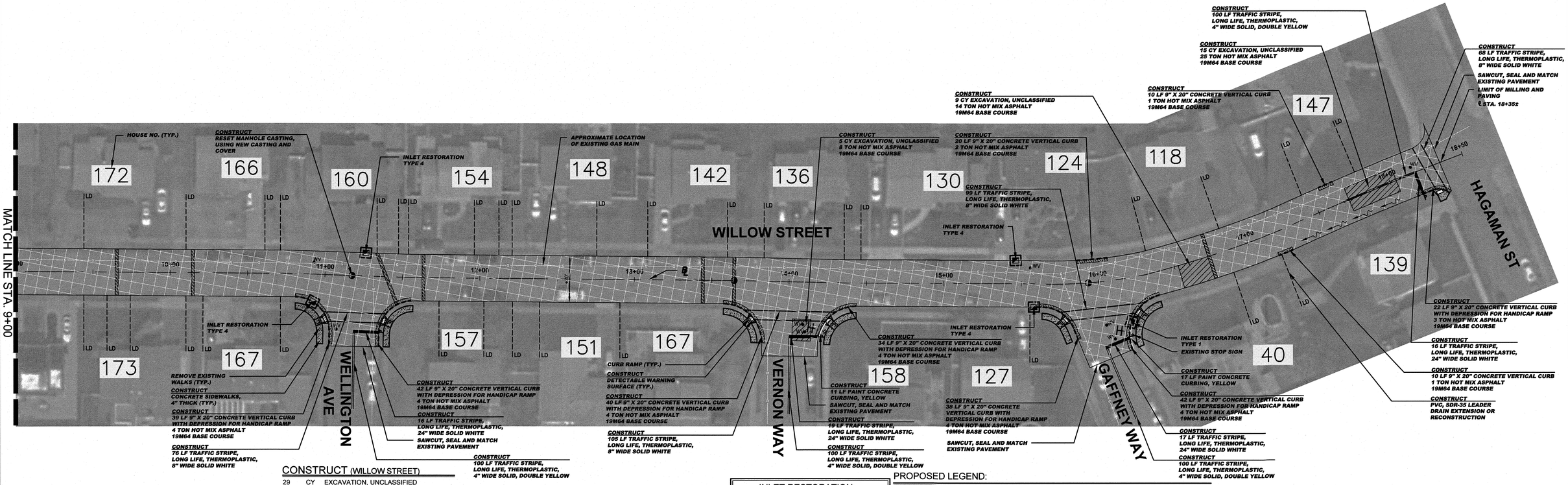
PROJECT NO. PWB0A615.01

RESOLUTION NO.

TOWNSHIP OF WOODBRIDGE

COUNTY OF MIDDLESEX





CONSTRUCT (WILLOW STREET)

29	CY	EXCAVATION, UNCLASSIFIED
6512	SY	HMA MILLING, 3" OR LESS
6589	LF	POLYMERIZED JOINT ADHESIVE
181	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT
727	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT WITH PAVEMENT REPAIR GEO COMPOSITE MEMBRANE
945	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
79	TON	HOT MIX ASPHALT 19M64 BASE COURSE
2	UN	PVC, SDR-35 LEADER DRAIN EXTENSION OR RECONSTRUCTION
6	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
2	UN	RESET MANHOLE CASTING, USING NEW CASTING AND COVER
7	UN	RESET EXISTING CASTING
1	UN	CURB PIECE, TYPE "P-ECO"
104	SY	CONCRETE SIDEWALKS, 4" THICK
11	SY	CONCRETE DRIVEWAYS AND APRONS, REINFORCED, 6" THICK
7	UN	DETECTABLE WARNING SURFACE
307	LF	9"X20" CONCRETE VERTICAL CURB
62	LF	PAINT CONCRETE CURBING
510	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
426	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
68	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
18	SF	TRAFFIC MARKINGS, THERMOPLASTIC
11	UN	RESET WATER VALVE BOX
171	SY	TOPSOILING, 4" THICK
171	SY	FERTILIZING AND SEEDING
171	SY	TOPSOIL STABILIZATION, TYPE 2MAT

SPECIAL PROVISIONS

THE CONTRACTOR IS SPECIFICALLY DIRECTED TO THE REQUIREMENTS CONTAINED IN THE SPECIAL PROVISIONS SECTION OF THE CONTRACT SPECIFICATIONS.

PROPOSED CURB AND/OR ROADWAY REPLACEMENT

THE CONTRACTOR IS ADVISED THAT THEIR LICENSED LAND SURVEYOR SHALL PROVIDE THE CONSTRUCTION STAKEOUT FOR THE PROJECT AND THAT IS THE INTENT OF THE CONTRACT DOCUMENTS TO INSTALL THE NEW CURB, EDGE OF PAVEMENT, AND ROADWAY AT ITS PRESENT HORIZONTAL LOCATION AND VERTICAL LOCATION EXCEPT WHERE PROPOSED GRADES HAVE BEEN INDICATED ON THE PLAN. ACCORDINGLY, THE FULL RESPONSIBILITY FOR KEEPING AND MAINTAINING THE EXISTING ALIGNMENT AND GRADE PRIOR TO REMOVAL OF THE EXISTING CURB AND MILLING AND/OR EXCAVATION OF THE PAVEMENT SHALL REST UPON THE CONTRACTOR IN ACCORDANCE WITH DIVISION 1 GENERAL REQUIREMENTS SECTION 1-4.4 OF THE PROJECT SPECIFICATIONS.

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft.

INLET RESTORATION:

- TYPE 1 - RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
- TYPE 2 - RESET EXISTING CASTING BICYCLE SAFE GRATE
- TYPE 3 - RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
- TYPE 4 - RESET EXISTING CASTING

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
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- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
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No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – WILLOW STREET

WARD 3

REGISTER NO. FILE NO. PWB0A615.01

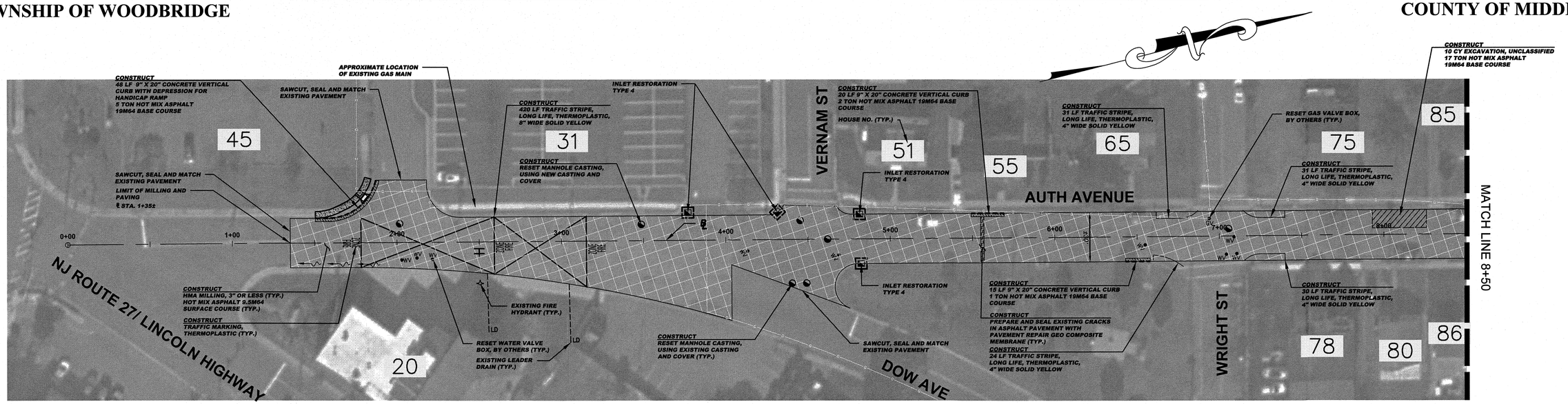
CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 (732) 727 8000
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194 (732) 462 7400

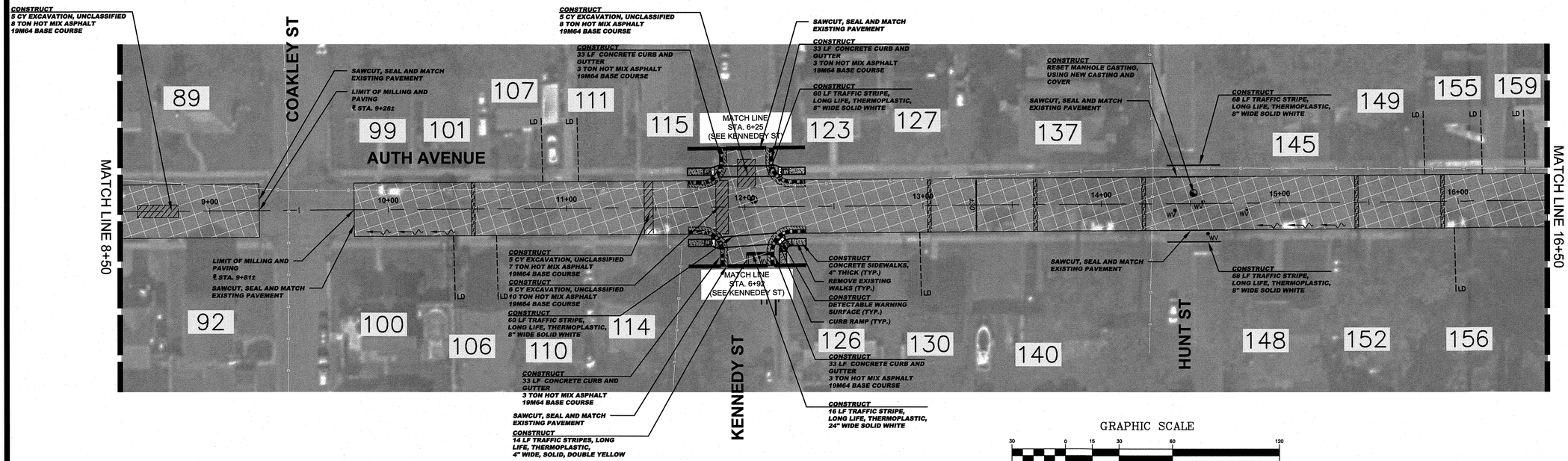
GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE As Shown	DATE May 2024	DRAWING NUMBER	C-26
DRAWN BY AW	DESIGNED BY AW/PD		C-52
CHECKED BY	SHEET 30 of 77		

TOWNSHIP OF WOODBRIDGE

COUNTY OF MIDDLESEX





GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft.

CONSTRUCT (AUTH AVENUE (1 OF 2))

31	CY	EXCAVATION, UNCLASSIFIED
5509	SY	HMA MILLING, 3" OR LESS
5793	LF	POLYMERIZED JOINT ADHESIVE
477	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT
210	LF	PREPARE AND SEAL EXISTING TRANSVERSE CRACKS IN ASPHALT PAVEMENT WITH PAVEMENT REPAIR GEO COMPOSITE MEMBRANE
794	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
70	TON	HOT MIX ASPHALT 19M64 BASE COURSE
7	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
2	UN	RESET MANHOLE CASTING, USING NEW CASTING AND COVER
4	UN	RESET EXISTING CASTING
57	SY	CONCRETE SIDEWALK, 4" THICK
5	SY	DETECTABLE WARNING SURFACE
83	LF	9"X20" CONCRETE VERTICAL CURB
132	LF	CONCRETE CURB AND GUTTER
130	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
676	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
16	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
156	SF	TRAFFIC MARKINGS, THERMOPLASTIC
13	UN	RESET WATER VALVE BOX
1	UN	RESET GAS VALVE BOX
120	SY	TOPSOILING, 4" THICK
120	SY	FERTILIZING AND SEEDING
120	SY	TOPSOIL STABILIZATION, TYPE 2 MAT

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INLET RESTORATION:

- TYPE 1 - RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
- TYPE 2 - RESET EXISTING CASTING BICYCLE SAFE GRATE
- TYPE 3 - RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
- TYPE 4 - RESET EXISTING CASTING

BASELINES

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PROPOSED LEGEND:

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- DENOTES RESET MANHOLE CASTING
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- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
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- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
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- DENOTES PAINT CONCRETE CURBING, YELLOW
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- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
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- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE EXCAVATION) AND PAVING WITH 19M64 BASE COURSE
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No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – AUTH AVENUE (1 OF 2)

WARD 4

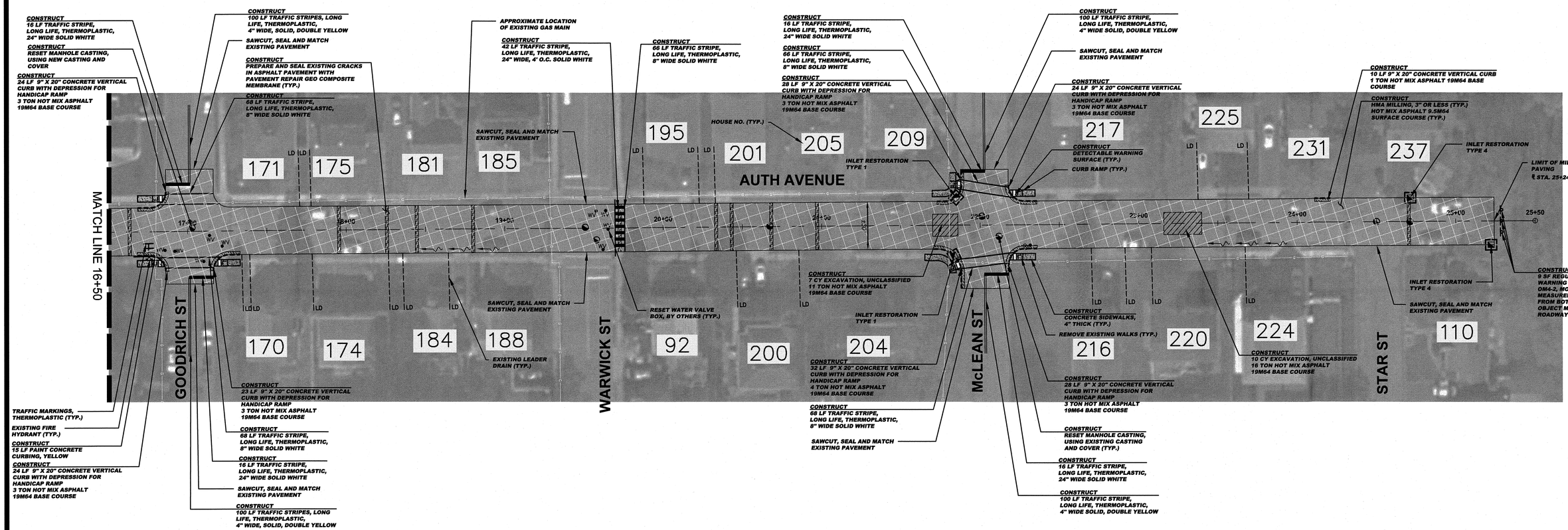
REGISTER NO. PWB0A615.01

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 (732) 727 8000
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194 (732) 462 7400

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE As Shown	DATE May 2024	DRAWING NUMBER C-27	
DRAWN BY AS	DESIGNED BY AS/PD		C-52
CHECKED BY GO	SHEET 31 of 77		

TOWNSHIP OF WOODBRIDGE | **COUNTY OF MIDDLESEX**



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

CONSTRUCT (AUTH AVENUE (2 OF 2))

17	CY	EXCAVATION, UNCLASSIFIED
3227	SY	HMA MILLING, 3" OR LESS
3356	LF	POLYMERIZED JOINT ADHESIVE
270	LF	PREPARE & SEAL EXISTING JOINTS & CRACKS IN ASPHALT PAVEMENT
330	LF	PREPARE AND SEAL EXISTING TRANSVERSE CRACKS IN ASPHALT PAVEMENT WITH PAVEMENT REPAIR GEO COMPOSITE MEMBRANE
467	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
50	TON	HOT MIX ASPHALT 19M64 BASE COURSE
7	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
1	UN	RESET MANHOLE CASTING, USING NEW CASTING AND COVER
4	UN	RESET EXISTING CASTING
2	UN	CURB PIECE, TYPE "P-ECO"
61	SY	CONCRETE SIDEWALK, 4" THICK
7	SY	DETECTABLE WARNING SURFACE
193	LF	9"X20" CONCRETE VERTICAL CURB
15	LF	PAINT CONCRETE CURBING
400	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
336	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
106	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
6	SF	TRAFFIC MARKINGS, THERMOPLASTIC
9	SY	REGULATORY AND WARNING SIGNS
9	UN	RESET WATER VALVE BOX
1	UN	RESET GAS VALVE BOX
108	SY	TOPSOILING, 4" THICK
108	SY	FERTILIZING AND SEEDING
108	SY	TOPSOIL STABILIZATION, TYPE 2 MAT

SPECIAL PROVISIONS

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INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

BASELINES

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PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
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NO.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – AUTH AVENUE (2 OF 2)

WARD 4

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 (732) 727 8000
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194 (732) 462 7400

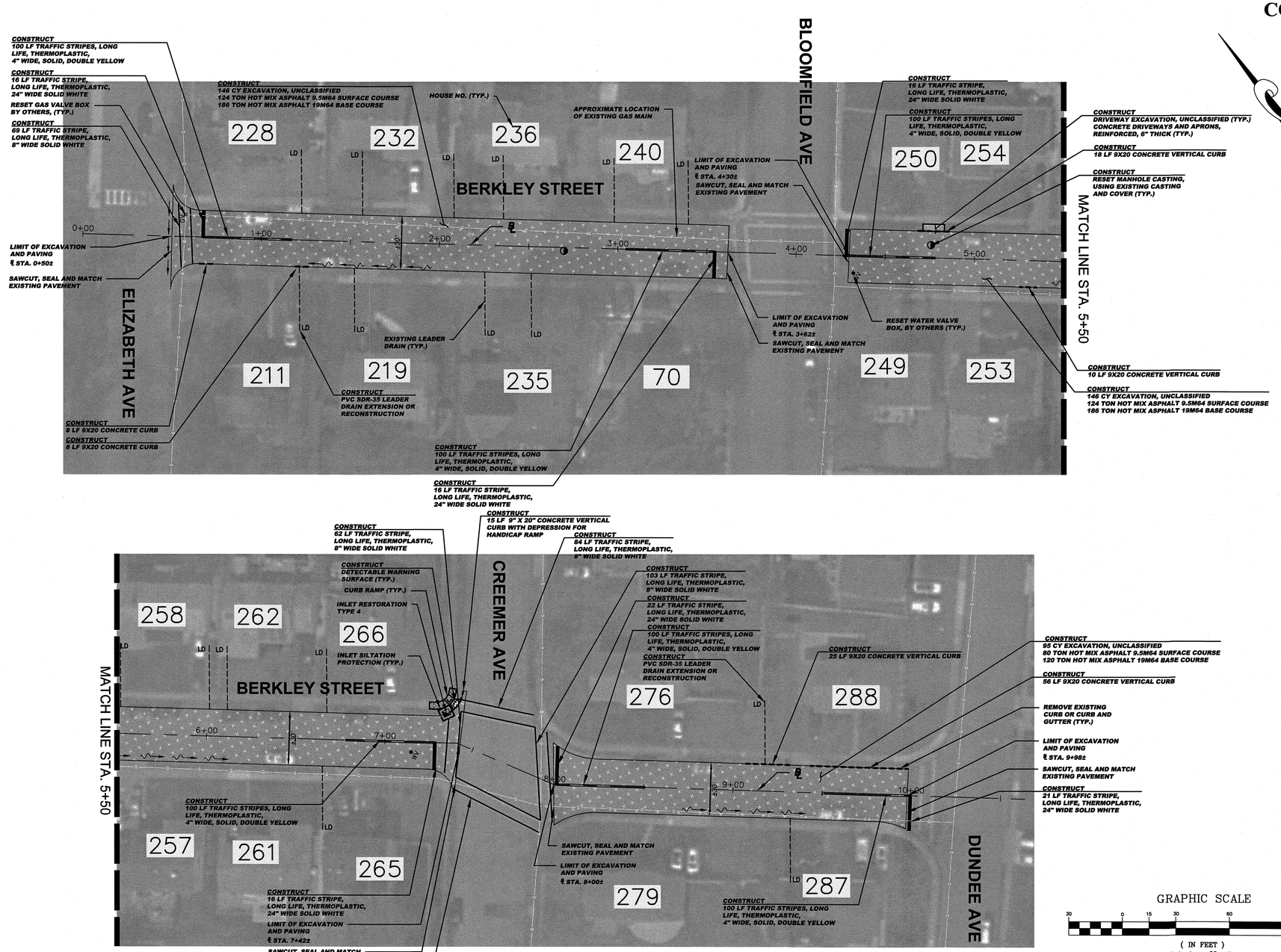
GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
DRAWN BY	AS
DESIGNED BY	AS/PD
CHECKED BY	GO
SHEET	32 of 77
DRAWING NUMBER	C-28 / C-52

REGISTER NO. PW BOA 615.01

TOWNSHIP OF WOODBRIDGE

COUNTY OF MIDDLESEX



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft.

CONSTRUCT (BERKLEY STREET)

2	CY	DRIVEWAY EXCAVATION, UNCLASSIFIED
387	CY	EXCAVATION, UNCLASSIFIED, 5" DEEP
6017	LF	POLYMERIZED JOINT ADHESIVE
261	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT
328	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
492	TON	HOT MIX ASPHALT BASE COURSE
2	UN	PVC, SDR-35 LEADER DRAIN EXTENSION OR RECONSTRUCTION
2	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
1	UN	RESET EXISTING CASTING
6	SY	CONCRETE DRIVEWAYS AND APRON, REINFORCED, 6" THICK
124	LF	9"X20" CONCRETE VERTICAL CURB
600	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
131	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
107	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
2	UN	RESET WATER VALVE BOX
1	UN	RESET GAS VALVE BOX
74	SY	TOPSOILING, 4" THICK
74	SY	FERTILIZING AND SEEDING
74	SY	TOPSOIL STABILIZATION, TYPE 2 MAT

SPECIAL PROVISIONS

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PROPOSED CURB AND/OR ROADWAY REPLACEMENT

THE CONTRACTOR IS ADVISED THAT THEIR LICENSED LAND SURVEYOR SHALL PROVIDE THE CONSTRUCTION STAKEOUT FOR THE PROJECT AND THAT IS THE INTENT OF THE CONTRACT DOCUMENTS TO INSTALL THE NEW CURB, EDGE OF PAVEMENT, AND ROADWAY AT ITS PRESENT HORIZONTAL LOCATION AND VERTICAL LOCATION EXCEPT WHERE PROPOSED GRADES HAVE BEEN INDICATED ON THE PLAN. ACCORDINGLY, THE FULL RESPONSIBILITY FOR KEEPING AND MAINTAINING THE EXISTING ALIGNMENT AND GRADE PRIOR TO REMOVAL OF THE EXISTING CURB AND MILLING AND/OR EXCAVATION OF THE PAVEMENT SHALL REST UPON THE CONTRACTOR IN ACCORDANCE WITH DIVISION 1 GENERAL REQUIREMENTS SECTION 1-4.4 OF THE PROJECT SPECIFICATIONS.

INLET RESTORATION:

TYPE 1 - RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO

TYPE 2 - RESET EXISTING CASTING BICYCLE SAFE GRATE

TYPE 3 - RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE

TYPE 4 - RESET EXISTING CASTING

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
- DENOTES RECONSTRUCT INLET
- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
- DENOTES APPROXIMATE LOCATION OF EXISTING HIGH POINT
- DENOTES APPROXIMATE LOCATION OF EXISTING LOW POINT
- DENOTES TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC WITH GLASS BEADS, FOR FIRE HYDRANT
- DENOTES PAINT CONCRETE CURBING, YELLOW
- DENOTES BENCH MARK LOCATION
- DENOTES EXISTING TREES OR STUMPS TO BE REMOVED
- DENOTES RESET BRICKWALK/ PAVERS
- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
- DENOTES CONCRETE DRIVEWAY RESTORATION
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE EXCAVATION) AND PAVING WITH 19M64 BASE COURSE
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE TEMPORARY TRENCH REPAIR)
- DENOTES PROPOSED CONCRETE SIDEWALK AND DRIVEWAY APRON
- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE AND 3" HOT MIX ASPHALT 19M64 BASE COURSE
- DENOTES AREA TO BE MILLED AND RECEIVE MIN. 2" HMA 9.5M64 SURFACE COURSE
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No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – BERKLEY STREET

WARD 4

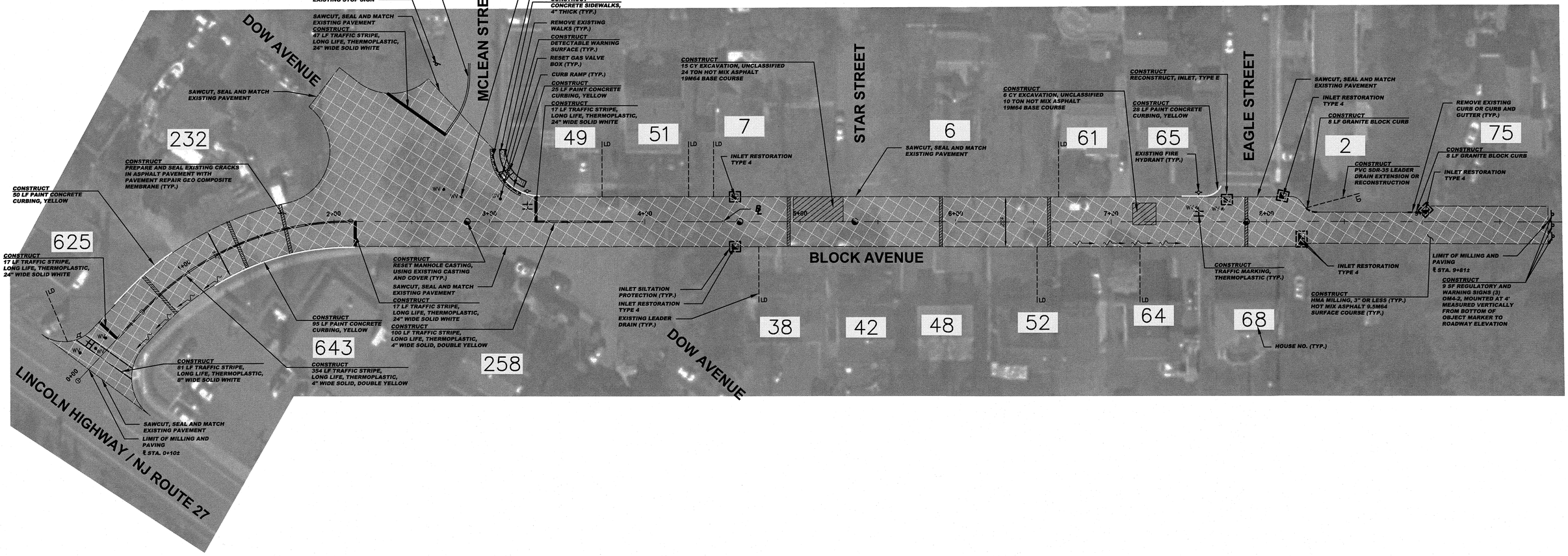
CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28339600
(732) 727 8000 (732) 462 7400
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE As Shown	DATE May 2024	DRAWING NUMBER C-29	C-52
DRAWN BY AS	DESIGNED BY AS/PD		
CHECKED BY GO	SHEET 33 of 77		

REGISTER NO.

FILE NO. PWB0A615.01



CONSTRUCT (BLOCK AVENUE)

21	CY	EXCAVATION, UNCLASSIFIED
4133	SY	HMA MILLING, 3" OR LESS
3802	LF	POLYMERIZED JOINT ADHESIVE
511	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT
224	LF	PREPARE AND SEAL EXISTING TRANSVERSE CRACKS IN ASPHALT PAVEMENT WITH PAVEMENT REPAIR GEO COMPOSITE MEMBRANE
583	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
33	TON	HOT MIX ASPHALT 19M64 BASE COURSE
4	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
6	UN	RESET EXISTING CASTING
1	UN	RECONSTRUCT INLET, TYPE E
16	SY	CONCRETE SIDEWALKS, 4" THICK
1	UN	DETECTABLE WARNING SURFACE
36	LF	9"X20" CONCRETE VERTICAL CURB
16	LF	GRANITE BLOCK CURB
198	LF	PAINT CONCRETE CURBING
554	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
81	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
98	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
18	SF	TRAFFIC MARKINGS, THERMOPLASTIC
7	UN	RESET WATER VALVE BOX
1	UN	RESET GAS VALVE BOX
29	SY	TOPSOILING, 4" THICK
29	SY	FERTILIZING AND SEEDING
29	SY	TOPSOIL STABILIZATION, TYPE 2 MAT

SPECIAL PROVISIONS

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PROPOSED CURB AND/OR ROADWAY REPLACEMENT

THE CONTRACTOR IS ADVISED THAT THEIR LICENSED LAND SURVEYOR SHALL PROVIDE THE CONSTRUCTION STAKEOUT FOR THE PROJECT AND THAT IS THE INTENT OF THE CONTRACT DOCUMENTS TO INSTALL THE NEW CURB, EDGE OF PAVEMENT, AND ROADWAY AT ITS PRESENT HORIZONTAL LOCATION AND VERTICAL LOCATION EXCEPT WHERE PROPOSED GRADES HAVE BEEN INDICATED ON THE PLAN. ACCORDINGLY, THE FULL RESPONSIBILITY FOR KEEPING AND MAINTAINING THE EXISTING ALIGNMENT AND GRADE PRIOR TO REMOVAL OF THE EXISTING CURB AND MILLING AND/OR EXCAVATION OF THE PAVEMENT SHALL REST UPON THE CONTRACTOR IN ACCORDANCE WITH DIVISION 1 GENERAL REQUIREMENTS SECTION 1-4.4 OF THE PROJECT SPECIFICATIONS.

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft.

INLET RESTORATION:

- TYPE 1 - RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
- TYPE 2 - RESET EXISTING CASTING BICYCLE SAFE GRATE
- TYPE 3 - RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
- TYPE 4 - RESET EXISTING CASTING

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
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- DENOTES RESET INLET CASTING
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- DENOTES BENCH MARK LOCATION
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TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – BLOCK AVENUE

WARD 4

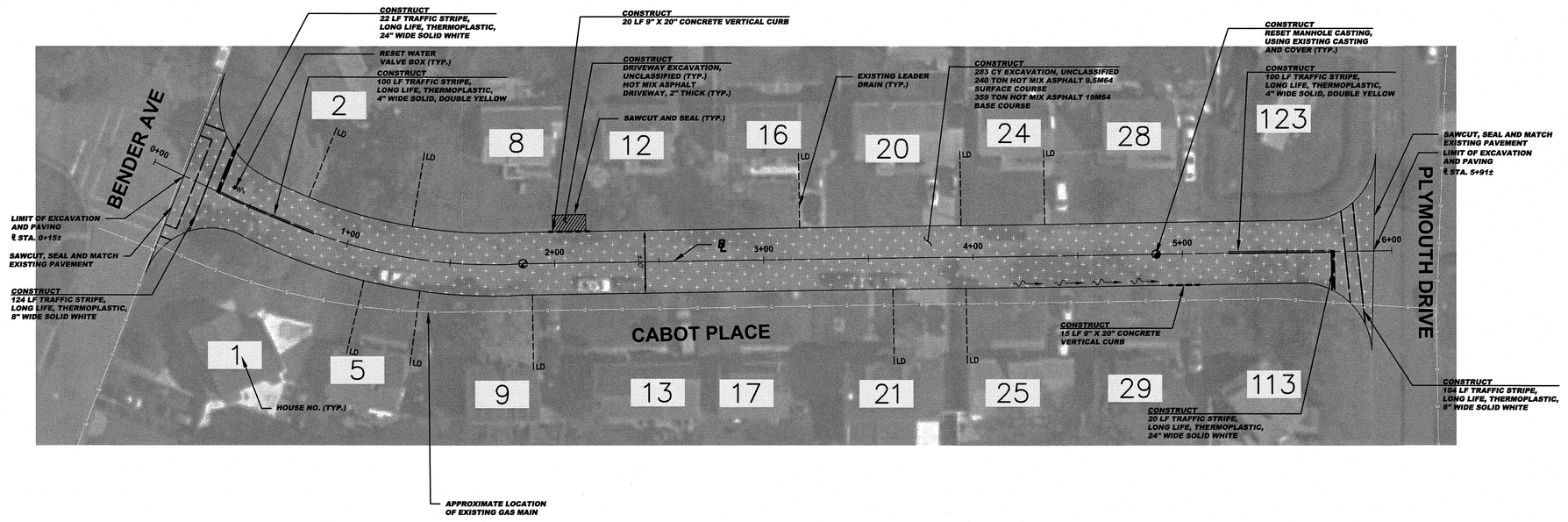
CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
(732) 727 8000 (732) 462 7400
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
DRAWN BY	PD
DESIGNED BY	PD
CHECKED BY	GO
SHEET	34 of 77

DRAWING NUMBER C-30 / C-52

REGISTER NO. FILE NO. PWB0A615.01



CONSTRUCT (CABOT PLACE)

4	CY	DRIVEWAY EXCAVATION, UNCLASSIFIED
283	CY	EXCAVATION, UNCLASSIFIED
4348	LF	POLYMERIZED JOINT ADHESIVE
197	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT
240	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
359	TON	HOT MIX ASPHALT 19M64 BASE COURSE
2	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
15	TON	HOT MIX ASPHALT DRIVEWAY RESTORATION, 2" THICK
35	LF	9"X20" CONCRETE VERTICAL CURB
200	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
228	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
42	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
1	UN	RESET WATER VALVE BOX
20	SY	TOPSOILING, 4" THICK
20	SY	FERTILIZING AND SEEDING
20	SY	TOPSOIL STABILIZATION, TYPE 2MAT

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

BASELINES

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INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
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- DENOTES PROPOSED INLET
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TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – CABOT PLACE

WARD 4

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
(732) 727 8000 (732) 462 7400
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
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DESIGNED BY	AWPD
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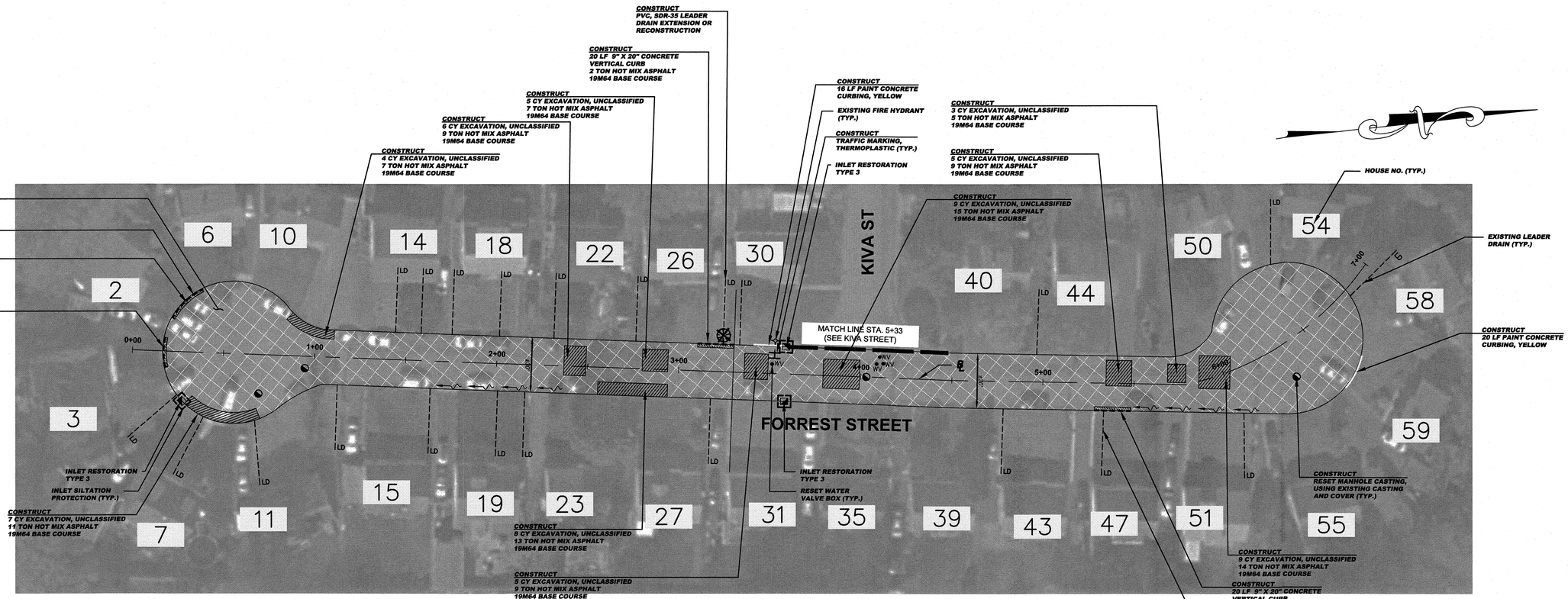
SHEET	35 of 77

REGISTER NO.
FILE NO. PWB0A615.01
DRAWING NUMBER C-31 C-52



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft.

CONSTRUCT (FORREST STREET)

61	CY	EXCAVATION, UNCLASSIFIED
2858	SY	HMA MILLING, 3" OR LESS
3558	LF	POLYMERIZED JOINT ADHESIVE
403	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
109	TON	HOT MIX ASPHALT 19M64 BASE COURSE
2	UN	PVC, SDR-35 LEADER DRAIN EXTENSION OR RECONSTRUCTION
4	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
2	UN	RESET EXISTING CASTING
2	UN	CURB PIECE TYPE "N-ECO"
2	UN	BICYCLE SAFE GRATE
1	UN	RECONSTRUCT INLET, TYPE B
81	LF	9"X20" CONCRETE VERTICAL CURB
36	LF	PAINT CONCRETE CURBING
6	SF	TRAFFIC MARKINGS, THERMOPLASTIC
4	UN	RESET WATER VALVE BOX
45	SY	TOPSOILING, 4" THICK
45	SY	FERTILIZING AND SEEDING
45	SY	TOPSOIL STABILIZATION, TYPE 2MAT
1	UN	TREE REPLACEMENT

SPECIAL PROVISIONS

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INLET RESTORATION:

- TYPE 1 - RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
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BASELINES

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PROPOSED LEGEND:

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- DENOTES RESET MANHOLE CASTING
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No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – FORREST STREET

WARD 4

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
(732) 727 8000 (732) 462 7400
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
DRAWN BY	AW
DESIGNED BY	AW/PD
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SHEET	36 of 77

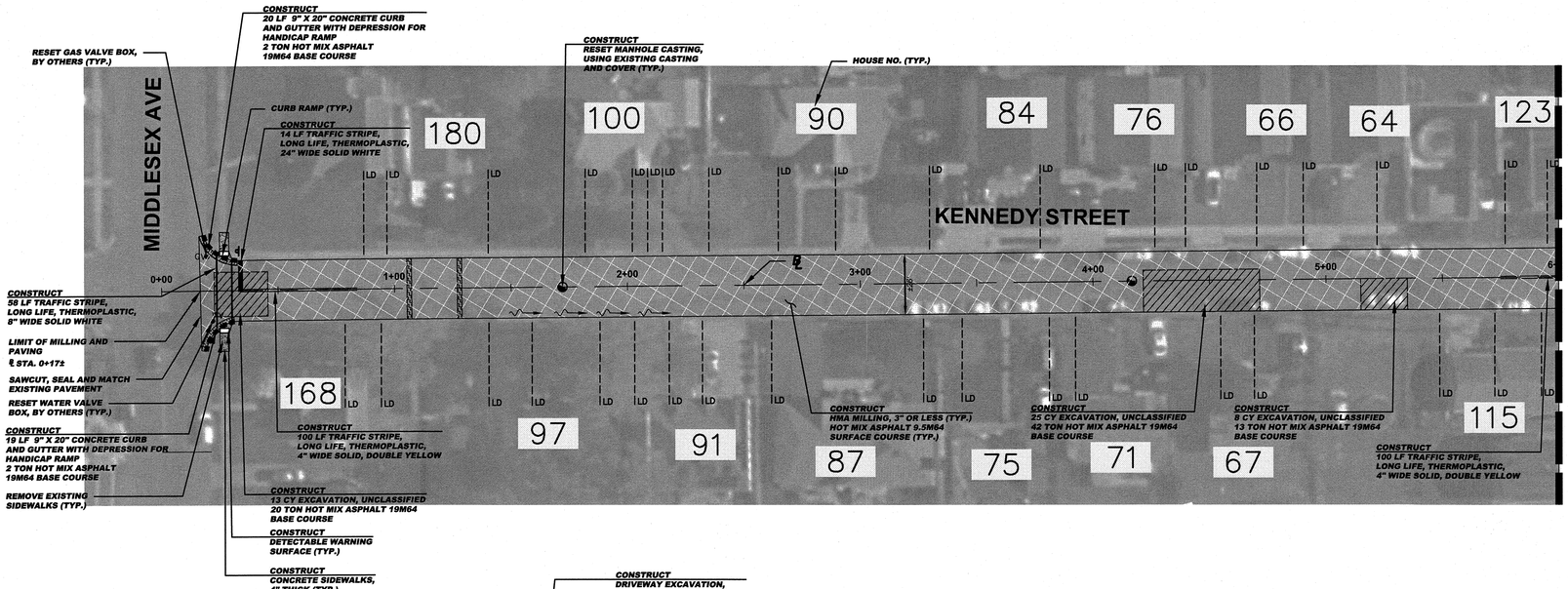
DRAWING NUMBER: C-32 / C-52

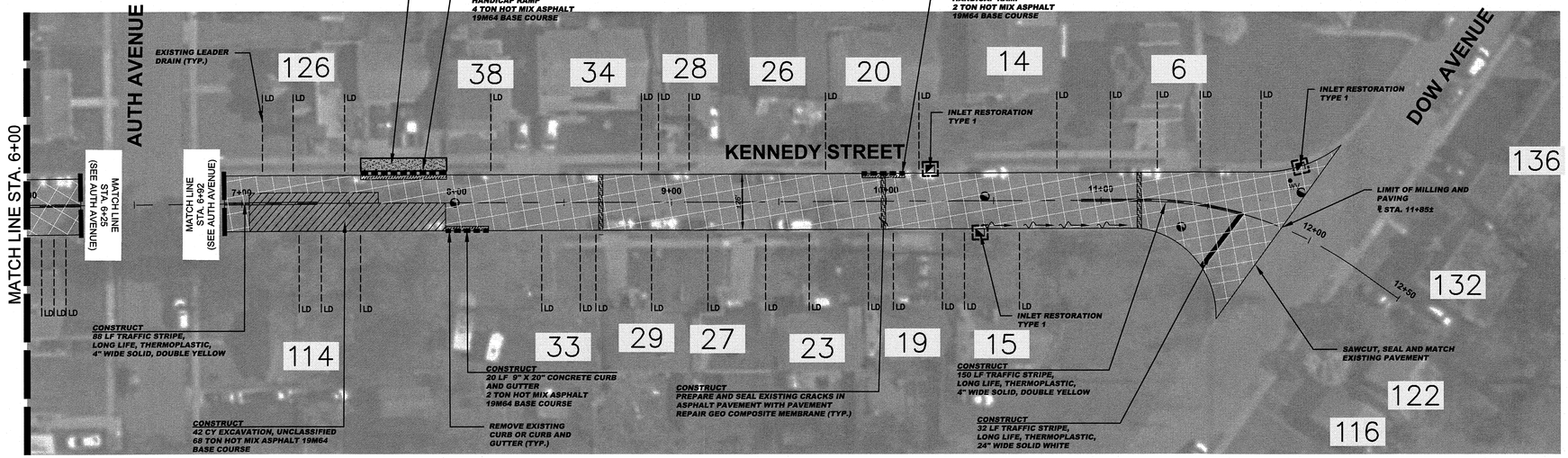
JOB/STORM NO.

FILE NO. PWB0A615.01

TOWNSHIP OF WOODBRIDGE

COUNTY OF MIDDLESEX





CONSTRUCT (KENNEDY STREET)

8	CY	DRIVEWAY EXCAVATION, UNCLASSIFIED
88	CY	EXCAVATION, UNCLASSIFIED
3343	SY	HMA MILLING, 3" OR LESS
4840	LF	POLYMERIZED JOINT ADHESIVE
149	LF	PREPARE & SEAL EXISTING JOINTS & CRACKS IN ASPHALT PAVEMENT
130	LF	PREPARE & SEAL EXISTING TRANSVERSE CRACKS IN ASPHALT PAVEMENT WITH PAVEMENT REPAIR GEO COMPOSITE MEMBRANE
504	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
135	TON	HOT MIX ASPHALT 19M64 BASE COURSE
6	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
3	UN	RESET EXISTING CASTING
3	UN	CURB PIECE TYPE "N-ECO"
11	SY	CONCRETE SIDEWALKS, 4" THICK
27	SY	CONCRETE DRIVEWAYS AND APRONS, REINFORCED, 6" THICK
2	SY	DETECTABLE WARNING SURFACE
119	LF	CONCRETE CURB AND GUTTER
438	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
58	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
46	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
2	UN	RESET WATER VALVE BOX
1	UN	RESET GAS VALVE BOX
67	SY	TOPSOILING, 4" THICK
67	SY	FERTILIZING AND SEEDING
67	SY	TOPSOIL STABILIZATION, TYPE 2MAT

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

SPECIAL PROVISIONS

THE CONTRACTOR IS SPECIFICALLY DIRECTED TO THE REQUIREMENTS CONTAINED IN THE SPECIAL PROVISIONS SECTION OF THE CONTRACT SPECIFICATIONS.

PROPOSED CURB AND/OR ROADWAY REPLACEMENT

THE CONTRACTOR IS ADVISED THAT THEIR LICENSED LAND SURVEYOR SHALL PROVIDE THE CONSTRUCTION STAKEOUT FOR THE PROJECT AND THAT IS THE INTENT OF THE CONTRACT DOCUMENTS TO INSTALL THE NEW CURB, EDGE OF PAVEMENT, AND ROADWAY AT ITS PRESENT HORIZONTAL LOCATION AND VERTICAL LOCATION EXCEPT WHERE PROPOSED GRADES HAVE BEEN INDICATED ON THE PLAN. ACCORDINGLY, THE FULL RESPONSIBILITY FOR KEEPING AND MAINTAINING THE EXISTING ALIGNMENT AND GRADE PRIOR TO REMOVAL OF THE EXISTING CURB AND MILLING AND/OR EXCAVATION OF THE PAVEMENT SHALL REST UPON THE CONTRACTOR IN ACCORDANCE WITH DIVISION 1 GENERAL REQUIREMENTS SECTION 1-4.4 OF THE PROJECT SPECIFICATIONS.

INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
- DENOTES RECONSTRUCT INLET
- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
- DENOTES APPROXIMATE LOCATION OF EXISTING HIGH POINT
- DENOTES APPROXIMATE LOCATION OF EXISTING LOW POINT
- DENOTES TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC WITH GLASS BEADS, FOR FIRE HYDRANT
- DENOTES PAINT CONCRETE CURBING, YELLOW
- DENOTES BENCH MARK LOCATION
- DENOTES EXISTING TREES OR STUMPS TO BE REMOVED
- DENOTES RESET BRICKWALK/ PAVERS
- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
- DENOTES CONCRETE DRIVEWAY RESTORATION
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE EXCAVATION) AND PAVING WITH 19M64 BASE COURSE
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE TEMPORARY TRENCH REPAIR)
- DENOTES PROPOSED CONCRETE SIDEWALK AND DRIVEWAY APRON
- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE AND 3" HOT MIX ASPHALT 19M64 BASE COURSE
- DENOTES AREA TO BE MILLED AND RECEIVE MIN. 2" HMA 9.5M64 SURFACE COURSE
- DENOTES AREA TO BE MILLED, EXISTING CRACK TO BE CLEANED AND SEALED, AND GEO COMPOSITE MATERIAL TO BE INSTALLED
- DENOTES AREA TO BE EXCAVATED UP TO 9" AND RECEIVE HMA 19M64 BASE COURSE
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- DENOTES ROADWAY TRENCH REPAIR AREA 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE 7" HOT MIX ASPHALT 19M64 BASE COURSE 6" DENSE GRADED AGGREGATE BASE COURSE

No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – KENNEDY STREET

WARD 4

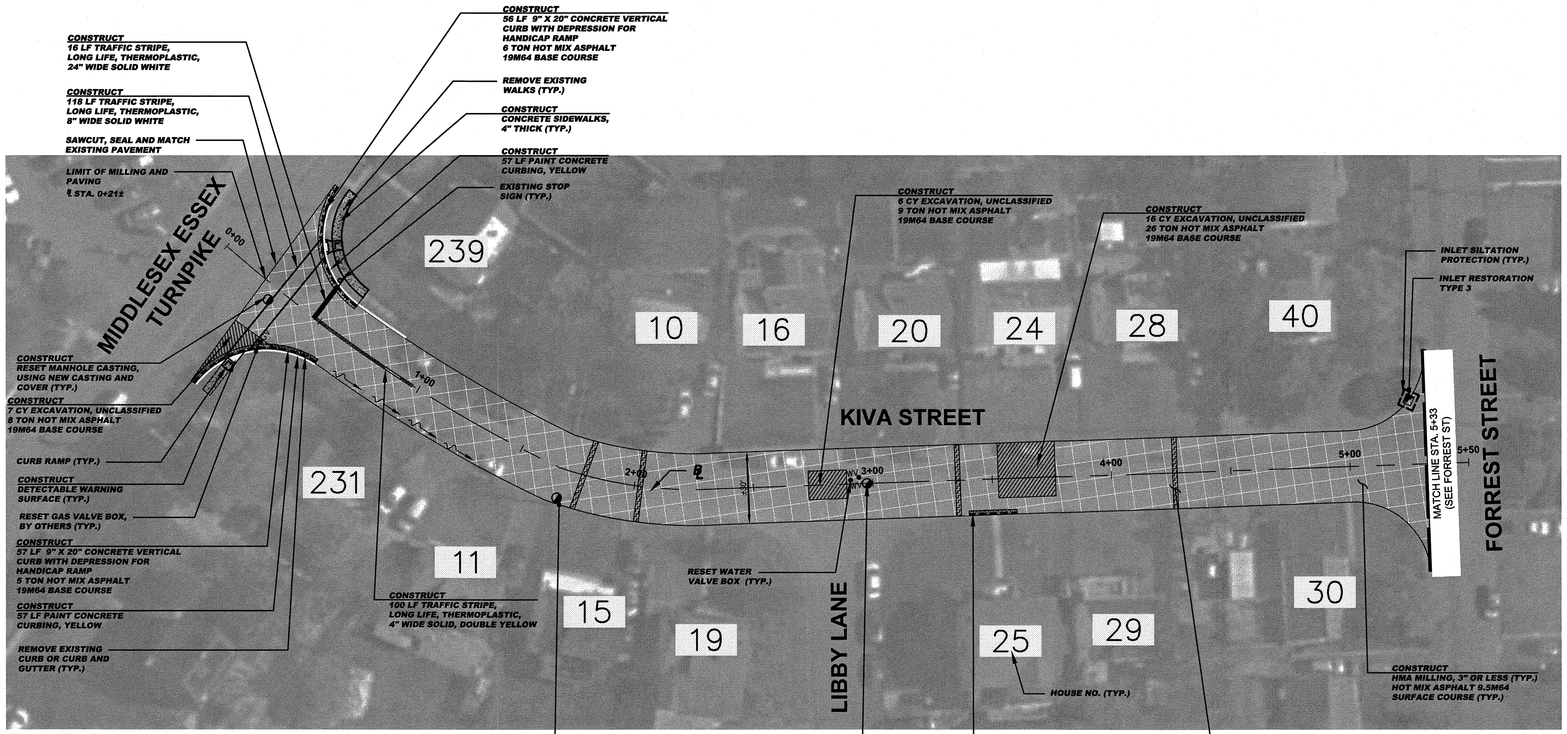
CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
(732) 727 8000 (732) 462 7400
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28039000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
DRAWN BY	OT
DESIGNED BY	OT/PD
CHECKED BY	
SHEET	37 of 77

REGISTER NO. PWB0A615.01

DRAWING NUMBER C-33 C-52



CONSTRUCT (KIVA STREET)

29	CY	EXCAVATION, UNCLASSIFIED
1833	SY	HMA MILLING, 3" OR LESS
2257	LF	POLYMERIZED JOINT ADHESIVE
194	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT
120	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT WITH PAVEMENT REPAIR GEO COMPOSITE MEMBRANE
268	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
56	TON	HOT MIX ASPHALT 19M64 BASE COURSE
3	UN	RESET MANHOLE CASTING, USING NEW CASTING AND COVER
1	UN	RESET EXISTING CASTING
1	UN	CURB PIECE TYPE "N-ECO"
1	UN	BICYCLE SAFE GRATE
33	SY	CONCRETE SIDEWALKS, 4" THICK
2	UN	DETECTABLE WARNING SURFACE
133	LF	9"X20" CONCRETE VERTICAL CURB
135	LF	PAINT CONCRETE CURBING
100	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
118	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
17	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
2	UN	RESET WATER VALVE BOX
1	UN	RESET GAS VALVE BOX
74	SY	TOPSOILING, 4" THICK
74	SY	FERTILIZING AND SEEDING
74	SY	TOPSOIL STABILIZATION, TYPE 2MAT

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft.

INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
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TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

BASELINES

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No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

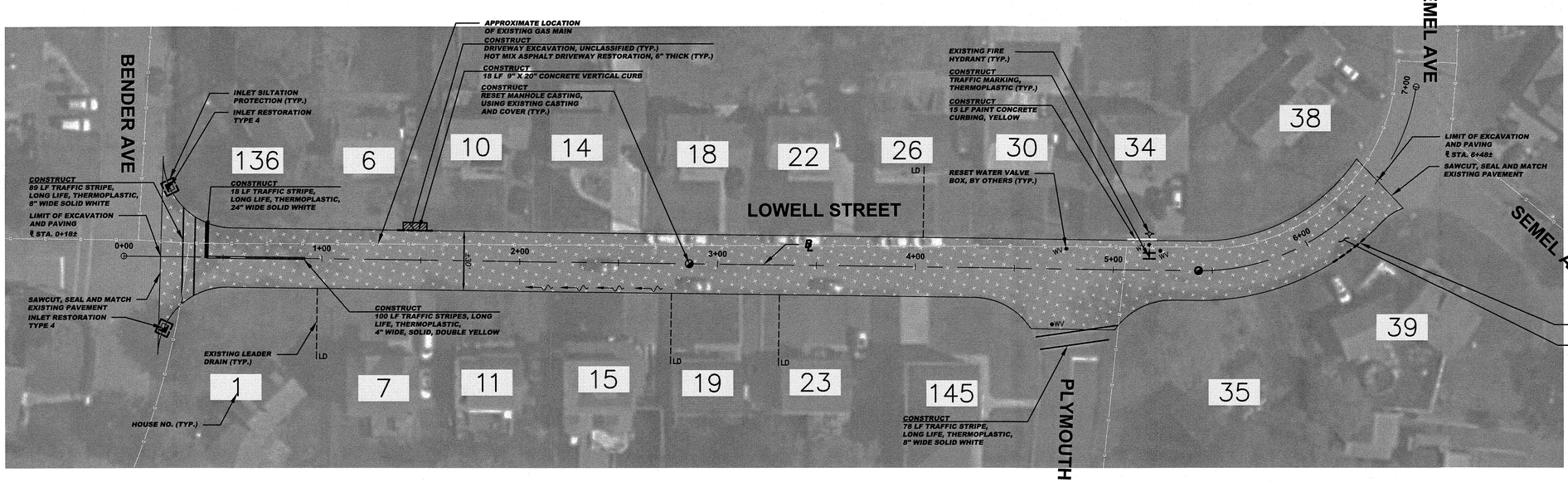
CONSTRUCTION PLAN – KIVA STREET

WARD 4

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
(732) 727 8000 (732) 462 7400
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE As Shown	DATE May 2024	REGISTER NO.	
DRAWN BY AW	DESIGNED BY AW/PD	FILE NO. PWB0A615.01	
CHECKED BY GO	SHEET 38 of 77	DRAWING NUMBER C-34	C-52



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft.

CONSTRUCT (LOWELL STREET)

2	CY	DRIVEWAY EXCAVATION, UNCLASSIFIED
314	CY	EXCAVATION UNCLASSIFIED, 5' DEEP
4528	LF	POLYMERIZED JOINT ADHESIVE
178	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT
266	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
399	TON	HOT MIX ASPHALT 19M64 BASE COURSE
2	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
2	UN	RESET EXISTING CASTING
6	SY	HOT MIX ASPHALT DRIVEWAY RESTORATION, 2" THICK
38	LF	9"X20" CONCRETE VERTICAL CURB
15	LF	PAINT CONCRETE CURBING
100	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
167	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
18	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
6	SF	TRAFFIC MARKINGS, THERMOPLASTIC
4	UN	RESET WATER VALVE BOX
21	SY	TOPSOILING, 4" THICK
21	SY	FERTILIZING AND SEEDING
21	SY	TOPSOIL STABILIZATION, TYPE 2 MAT

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INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

PROPOSED LEGEND:

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- DENOTES RESET MANHOLE CASTING
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No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – LOWELL STREET

WARD 4

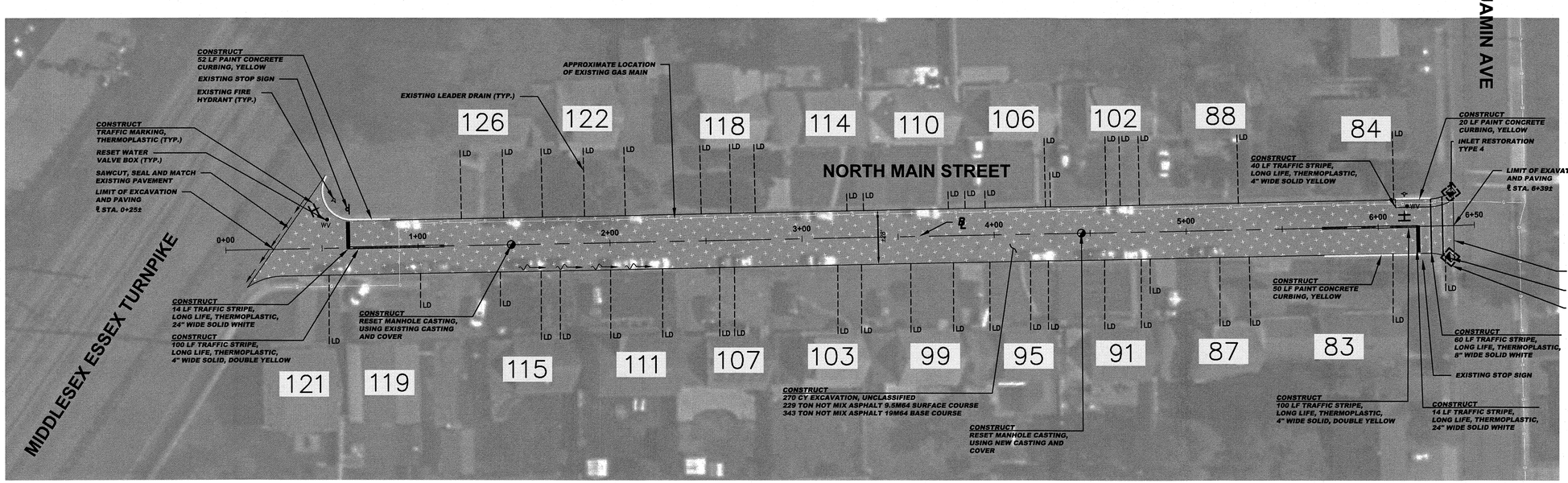
CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 (732) 727 8000
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194 (732) 462 7400

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
DRAWN BY	PD
DESIGNED BY	PD
CHECKED BY	GO
SHEET	39 of 77

DRAWING NUMBER C-35 C-52

KRISTEEN NO. PWB0A615.01



CONSTRUCT (NORTH MAIN STREET)

270	CY	EXCAVATION, UNCLASSIFIED
4277	LF	POLYMERIZED JOINT ADHESIVE
108	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT
229	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
343	TON	HOT MIX ASPHALT 19M64 BASE COURSE
1	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
1	UN	RESET MANHOLE CASTING, USING NEW CASTING AND COVER
2	UN	RESET EXISTING CASTING
123	LF	PAINT CONCRETE CURBING
240	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
60	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
28	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
12	SF	TRAFFIC MARKINGS, THERMOPLASTIC
2	UN	RESET WATER VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft.

SPECIAL PROVISIONS

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INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
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TYPE 4	-	RESET EXISTING CASTING

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
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No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – NORTH MAIN STREET

WARD 4

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28059000
(732) 727 8000 (732) 462 7400
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE As Shown	DATE May 2024		
DRAWN BY ER	DESIGNED BY PD/ER		
CHECKED BY GO	SHEET 40 of 77		

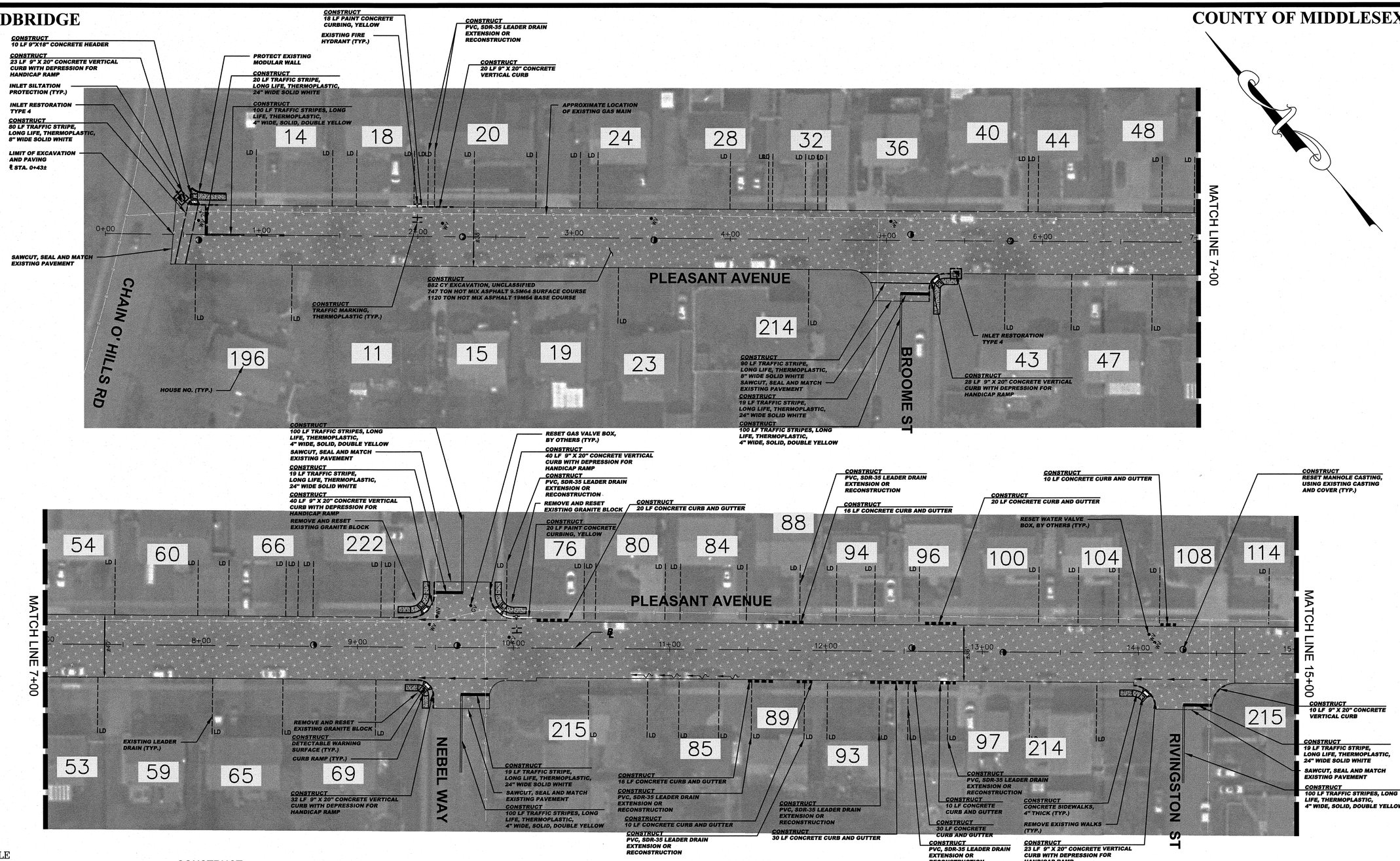
RECEIPT NO.

FILE NO. PWB0A615.01

DRAWING NUMBER C-36 C-52

TOWNSHIP OF WOODBRIDGE

COUNTY OF MIDDLESEX



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CONSTRUCT (PLEASANT AVENUE (1 OF 2))

882	CY	EXCAVATION, UNCLASSIFIED, 6" DEEP
9324	LF	POLYMERIZED JOINT ADHESIVE
187	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT
747	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
1120	TON	HOT MIX ASPHALT 19M64 BASE COURSE
9	UN	PVC, SDR-35 LEADER DRAIN EXTENSION OR RECONSTRUCTION
10	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
2	UN	RESET EXISTING CASTING
84	SY	CONCRETE SIDEWALKS, 4" THICK
5	SY	CONCRETE DRIVEWAYS AND APRONS, REINFORCED, 6" THICK
6	SY	DETECTABLE WARNING SURFACE
216	LF	9"X20" CONCRETE VERTICAL CURB
10	LF	9"X18" CONCRETE HEADER
132	LF	CONCRETE CURB AND GUTTER
37	LF	PAINT CONCRETE CURBING
500	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
170	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
96	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
12	SF	TRAFFIC MARKINGS, THERMOPLASTIC
9	UN	RESET WATER VALVE BOX
2	UN	RESET GAS VALVE BOX
194	SY	TOPSOILING, 4" THICK
194	SY	FERTILIZING AND SEEDING
194	SY	TOPSOIL STABILIZATION, TYPE 2 MAT

INLET RESTORATION:

TYPE 1 - RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO

TYPE 2 - RESET EXISTING CASTING BICYCLE SAFE GRATE

TYPE 3 - RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE

TYPE 4 - RESET EXISTING CASTING

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
- DENOTES RECONSTRUCT INLET
- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
- DENOTES APPROXIMATE LOCATION OF EXISTING HIGH POINT
- DENOTES APPROXIMATE LOCATION OF EXISTING LOW POINT
- DENOTES TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC WITH GLASS BEADS, FOR FIRE HYDRANT
- DENOTES PAINT CONCRETE CURBING, YELLOW
- DENOTES BENCH MARK LOCATION
- DENOTES EXISTING TREES OR STUMPS TO BE REMOVED
- DENOTES RESET BRICKWALK/ PAVERS
- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
- DENOTES CONCRETE DRIVEWAY RESTORATION
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE EXCAVATION) AND PAVING WITH 19M64 BASE COURSE
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE TEMPORARY TRENCH REPAIR)
- DENOTES PROPOSED CONCRETE SIDEWALK AND DRIVEWAY APRON
- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE AND 3" HOT MIX ASPHALT 19M64 BASE COURSE
- DENOTES AREA TO BE MILLED AND RECEIVE MIN. 2" HMA 9.5M64 SURFACE COURSE
- DENOTES AREA TO BE MILLED, EXISTING CRACK TO BE CLEANED AND SEALED, AND GEO COMPOSITE MATERIAL TO BE INSTALLED
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No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – PLEASANT AVENUE (1 OF 2)

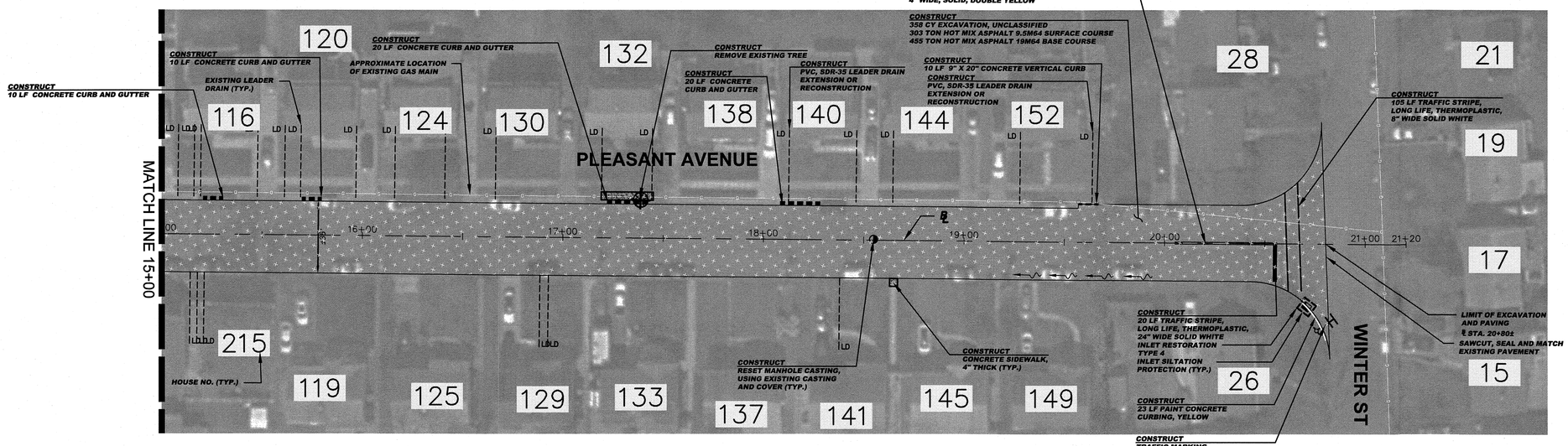
WARD 4

REGISTER NO. PWB0A615.01

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28035000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 (732) 727 8000
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194 (732) 462 7400

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
DRAWN BY	AS
DESIGNED BY	AS/PD
CHECKED BY	GO
SHEET	41 of 77
DRAWING NUMBER	C-37 to C-52



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

CONSTRUCT (PLEASANT AVENUE (2 OF 2))

359	CY	EXCAVATION UNCLASSIFIED, 5" DEEP
4458	LF	POLYMERIZED JOINT ADHESIVE
119	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT
303	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
455	TON	HOT MIX ASPHALT 19M64 BASE COURSE
2	UN	PVC, SDR-35 LEADER DRAIN EXTENSION OR RECONSTRUCTION
1	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
1	UN	RESET EXISTING CASTING
14	SY	CONCRETE SIDEWALKS, 4" THICK
10	LF	9"X20" CONCRETE VERTICAL CURB
60	LF	CONCRETE CURB AND GUTTER
23	LF	PAINT CONCRETE CURBING
100	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
105	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
20	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
6	SF	TRAFFIC MARKINGS, THERMOPLASTIC
39	SY	TOPSOILING, 4" THICK
39	SY	FERTILIZING AND SEEDING
39	SY	TOPSOIL STABILIZATION, TYPE 2 MAT
1	UN	TREE REPLACEMENT

SPECIAL PROVISIONS

THE CONTRACTOR IS SPECIFICALLY DIRECTED TO THE REQUIREMENTS CONTAINED IN THE SPECIAL PROVISIONS SECTION OF THE CONTRACT SPECIFICATIONS.

PROPOSED CURB AND/OR ROADWAY REPLACEMENT

THE CONTRACTOR IS ADVISED THAT THEIR LICENSED LAND SURVEYOR SHALL PROVIDE THE CONSTRUCTION STAKEOUT FOR THE PROJECT AND THAT IS THE INTENT OF THE CONTRACT DOCUMENTS TO INSTALL THE NEW CURB, EDGE OF PAVEMENT, AND ROADWAY AT ITS PRESENT HORIZONTAL LOCATION AND VERTICAL LOCATION EXCEPT WHERE PROPOSED GRADES HAVE BEEN INDICATED ON THE PLAN. ACCORDINGLY, THE FULL RESPONSIBILITY FOR KEEPING AND MAINTAINING THE EXISTING ALIGNMENT AND GRADE PRIOR TO REMOVAL OF THE EXISTING CURB AND MILLING AND/OR EXCAVATION OF THE PAVEMENT SHALL REST UPON THE CONTRACTOR IN ACCORDANCE WITH DIVISION 1 GENERAL REQUIREMENTS SECTION 1-4.4 OF THE PROJECT SPECIFICATIONS.

INLET RESTORATION:

TYPE 1 - RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO

TYPE 2 - RESET EXISTING CASTING BICYCLE SAFE GRATE

TYPE 3 - RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE

TYPE 4 - RESET EXISTING CASTING

BASELINES

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PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
- DENOTES RECONSTRUCT INLET
- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
- DENOTES APPROXIMATE LOCATION OF EXISTING HIGH POINT
- DENOTES APPROXIMATE LOCATION OF EXISTING LOW POINT
- DENOTES TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC WITH GLASS BEADS, FOR FIRE HYDRANT
- DENOTES PAINT CONCRETE CURBING, YELLOW
- DENOTES BENCH MARK LOCATION
- DENOTES EXISTING TREES OR STUMPS TO BE REMOVED
- DENOTES RESET BRICKWALK/ PAVERS
- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
- DENOTES CONCRETE DRIVEWAY RESTORATION
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE EXCAVATION) AND PAVING WITH 19M64 BASE COURSE
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE TEMPORARY TRENCH REPAIR)
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No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – PLEASANT AVENUE (2 OF 2)

WARD 4

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 (732) 727 8000
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194 (732) 462 7400

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE: 5.15.24

SCALE	As Shown
DATE	May 2024
DRAWN BY	AS
DESIGNED BY	AS/PD
CHECKED BY	GO
SHEET	42 of 77
DRAWING NUMBER	C-38 / C-52
REGISTER NO.	
FILE NO.	PWB0A615.01

TOWNSHIP OF WOODBRIDGE

COUNTY OF MIDDLESEX

CONSTRUCT (SEMEL AVENUE 1 OF 2)

600	CY	EXCAVATION, UNCLASSIFIED
12974	LF	POLYMERIZED JOINT ADHESIVE
2687	SY	HMA MILLING, 3" OR LESS
216	LF	PREPARE & SEAL EXISTING JOINTS & CRACKS IN ASPHALT PAVEMENT
977	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
768	TON	HOT MIX ASPHALT 19M64 BASE COURSE
7	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
2	UN	RESET EXISTING CASTING
2	UN	CURB PIECE TYPE "N-ECO"
2	UN	BICYCLE SAFE GRATE
10	SY	CONCRETE SIDEWALKS, 4" THICK
1	UN	DETECTABLE WARNING SURFACE
135	LF	9"X20" CONCRETE VERTICAL CURB
136	LF	PAINT CONCRETE CURBING
400	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
380	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
70	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
12	SF	TRAFFIC MARKINGS, THERMOPLASTIC
7	UN	RESET WATER VALVE BOX
75	SY	TOPSOILING, 4" THICK
75	SY	FERTILIZING AND SEEDING
75	SY	TOPSOIL STABILIZATION, TYPE 2 MAT
9	SF	REGULATORY AND WARNING SIGNS

PLYMOUTH DRIVE

LIMIT OF MILLING AND PAVING ℄ STA. 0+10±

SAWCUT, SEAL AND MATCH EXISTING PAVEMENT

CONSTRUCT 180 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 8" WIDE SOLID WHITE

CONSTRUCT 38 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 24" WIDE SOLID WHITE

EXISTING STOP SIGN

CONSTRUCT 100 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID, DOUBLE YELLOW

RESET WATER VALVE BOX, BY OTHERS (TYP.)

CONSTRUCT DRIVEWAY EXCAVATION, UNCLASSIFIED (TYP.) HOT MIX ASPHALT DRIVEWAY RESTORATION, 2" THICK (TYP.)

CONSTRUCT 15 LF 9" X 20" CONCRETE VERTICAL CURB 4 TON HOT MIX ASPHALT 19M64 BASE COURSE

INLET RESTORATION TYPE 3

INLET SILTATION PROTECTION (TYP.)

INLET RESTORATION TYPE 3

CONSTRUCT RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER

APPROXIMATE LOCATION OF EXISTING WATER MAIN (TYP.)

CONSTRUCT 21 LF PAINT CONCRETE CURBING, YELLOW

EXISTING LEADER DRAIN (TYP.)

EXISTING FIRE HYDRANT (TYP.)

CONSTRUCT TRAFFIC MARKINGS THERMOPLASTIC, YELLOW (TYP)

CONSTRUCT 40 LF 9" X 20" CONCRETE VERTICAL CURB

CONSTRUCT 40 LF 9" X 20" CONCRETE VERTICAL CURB

SEMEL AVENUE

MATCH LINE STA. 10+00

WEST GEORGE PLACE

LOWELL STREET

EXISTING STOP SIGN

CONSTRUCT 60 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 8" WIDE SOLID WHITE

CONSTRUCT 32 LF PAINT CONCRETE CURBING, YELLOW

CONSTRUCT 70 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 8" WIDE SOLID WHITE

REMOVE EXISTING CURB OR CURB AND GUTTER (TYP.)

CONSTRUCT 16 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 24" WIDE SOLID WHITE

CONSTRUCT 100 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID, DOUBLE YELLOW

CONSTRUCT HMA MILLING, 3" OR LESS (TYP.) HOT MIX ASPHALT 9.5M64 SURFACE COURSE (TYP.)

CONSTRUCT 40 LF 9" X 20" CONCRETE VERTICAL CURB 4 TON HOT MIX ASPHALT 19M64 BASE COURSE

CONSTRUCT 100 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID, DOUBLE YELLOW

CONSTRUCT 600 CY EXCAVATION, UNCLASSIFIED 508 TON HOT MIX ASPHALT 9.5M64 SURFACE COURSE 762 TON HOT MIX ASPHALT 19M64 BASE COURSE

CONSTRUCT 15 LF 9" X 20" CONCRETE VERTICAL CURB 2 TON HOT MIX ASPHALT 19M64 BASE COURSE

REMOVE EXISTING SIDEWALKS (TYP.)

CONSTRUCT 70 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 8" WIDE SOLID WHITE

CONSTRUCT 100 LF TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC, 4" WIDE, SOLID, DOUBLE YELLOW

CONSTRUCT 16 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 24" WIDE SOLID WHITE

CONSTRUCT 83 LF PAINT CONCRETE CURBING, YELLOW

CONSTRUCT 9 SF REGULATORY AND WARNING SIGNS (3) OM4-2, MOUNTED AT 4' MEASURED VERTICALLY FROM BOTTOM OF OBJECT MARKER TO ROADWAY ELEVATION

CONSTRUCT CONCRETE SIDEWALKS, 4" THICK (TYP.)

CURB RAMP (TYP.)

CONSTRUCT DETECTABLE WARNING SURFACE (TYP.)

EXISTING STOP SIGN

WEST JAMES PLACE

MATCH LINE STA. 19+00

MATCH LINE STA. 10+00

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft.

OM4-2
18"x18"
SIGN LEGEND

INLET RESTORATION:

- TYPE 1 - RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
- TYPE 2 - RESET EXISTING CASTING BICYCLE SAFE GRATE
- TYPE 3 - RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
- TYPE 4 - RESET EXISTING CASTING

BASELINES

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PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
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- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
- DENOTES APPROXIMATE LOCATION OF EXISTING HIGH POINT
- DENOTES APPROXIMATE LOCATION OF EXISTING LOW POINT
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- DENOTES BENCH MARK LOCATION
- DENOTES EXISTING TREES OR STUMPS TO BE REMOVED
- DENOTES RESET BRICKWALK/ PAVERS
- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
- DENOTES CONCRETE DRIVEWAY RESTORATION
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE EXCAVATION) AND PAVING WITH 19M64 BASE COURSE
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE TEMPORARY TRENCH REPAIR)
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- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE AND 3" HOT MIX ASPHALT 19M64 BASE COURSE
- DENOTES AREA TO BE MILLED AND RECEIVE MIN. 2" HMA 9.5M64 SURFACE COURSE
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SPECIAL PROVISIONS

THE CONTRACTOR IS SPECIFICALLY DIRECTED TO THE REQUIREMENTS CONTAINED IN THE SPECIAL PROVISIONS SECTION OF THE CONTRACT SPECIFICATIONS.

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TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

SEMEL AVENUE (1 OF 2) WARD 4

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 (732) 727 8000
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GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

REGISTER NO. PWB0A615.01

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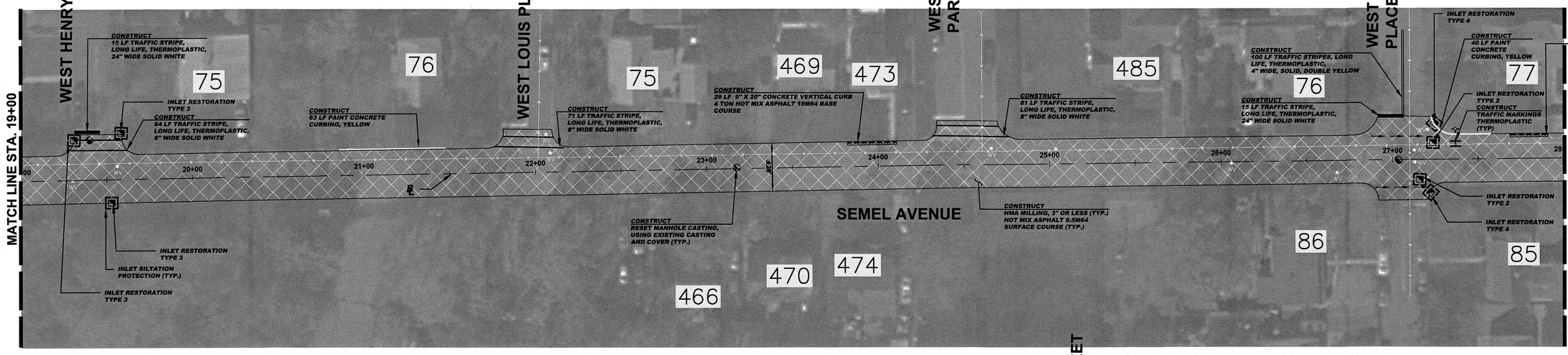
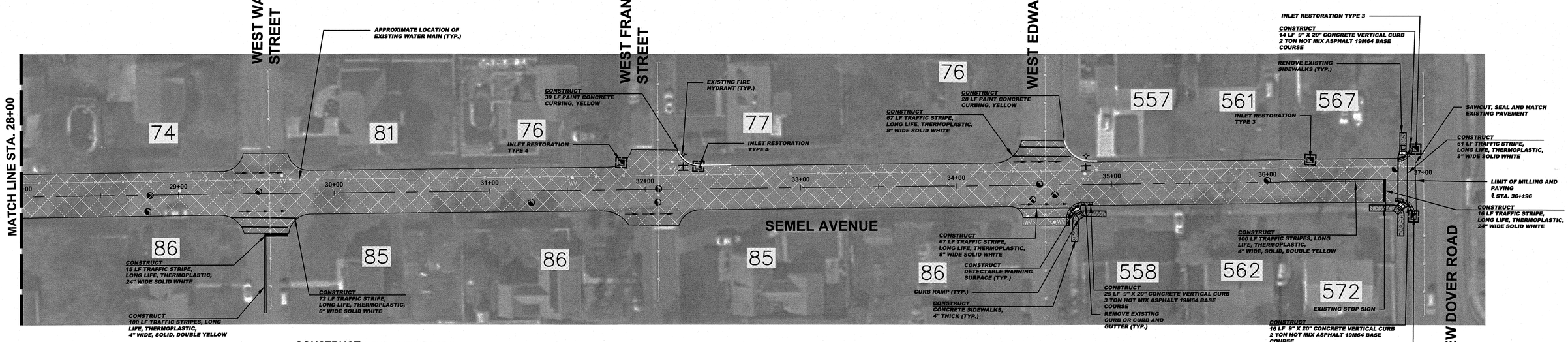
SCALE As Shown | DATE May 2024
DRAWN BY SH | DESIGNED BY SH/PD
CHECKED BY 60 | SHEET 43 of 77

DRAWING NUMBER C-39 C-52

TOWNSHIP OF WOODBRIDGE

COUNTY OF MIDDLESEX





CONSTRUCT (SEMEL AVENUE 2 OF 2)

6088	SY	HMA MILLING, 3" OR LESS
6120	LF	POLYMERIZED JOINT ADHESIVE
402	LF	PREPARE & SEAL EXISTING JOINTS & CRACKS IN ASPHALT PAVEMENT
895	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
10	TON	HOT MIX ASPHALT 19M64 BASE COURSE
14	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
12	UN	RESET EXISTING CASTING
4	UN	CURB PIECE TYPE "N-ECO"
1	UN	CURB PIECE TYPE "P-ECO"
7	UN	BICYCLE SAFE GRATE
43	SY	CONCRETE SIDEWALKS, 4" THICK
5	SY	HOT MIX ASPHALT DRIVEWAY RESTORATION, 2" THICK
3	UN	DETECTABLE WARNING SURFACE
107	LF	9"X20" CONCRETE VERTICAL CURB
170	LF	PAINT CONCRETE CURBING
300	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
483	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
61	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
18	SF	TRAFFIC MARKINGS, THERMOPLASTIC
18	UN	RESET WATER VALVE BOX
61	SY	TOPSOILING, 4" THICK
61	SY	FERTILIZING AND SEEDING
61	SY	TOPSOIL STABILIZATION, TYPE 2 MAT

SPECIAL PROVISIONS

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BASELINES

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GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft.

INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
- DENOTES RECONSTRUCT INLET
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- DENOTES EXISTING TREES OR STUMPS TO BE REMOVED
- DENOTES RESET BRICKWALK/ PAVERS
- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
- DENOTES CONCRETE DRIVEWAY RESTORATION
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE EXCAVATION) AND PAVING WITH 19M64 BASE COURSE
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE TEMPORARY TRENCH REPAIR)
- DENOTES PROPOSED CONCRETE SIDEWALK AND DRIVEWAY APRON
- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE AND 3" HOT MIX ASPHALT 19M64 BASE COURSE
- DENOTES AREA TO BE MILLED AND RECEIVE MIN. 2" HMA 9.5M64 SURFACE COURSE
- DENOTES AREA TO BE MILLED, EXISTING CRACK TO BE CLEANED AND SEALED, AND GEO COMPOSITE MATERIAL TO BE INSTALLED
- DENOTES AREA TO BE EXCAVATED UP TO 9" AND RECEIVE HMA 19M64 BASE COURSE
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- DENOTES ROADWAY TRENCH REPAIR AREA 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE 7" HOT MIX ASPHALT 19M64 BASE COURSE 6" DENSE GRADED AGGREGATE BASE COURSE

No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

SEMEL AVENUE (2 OF 2) WARD 4

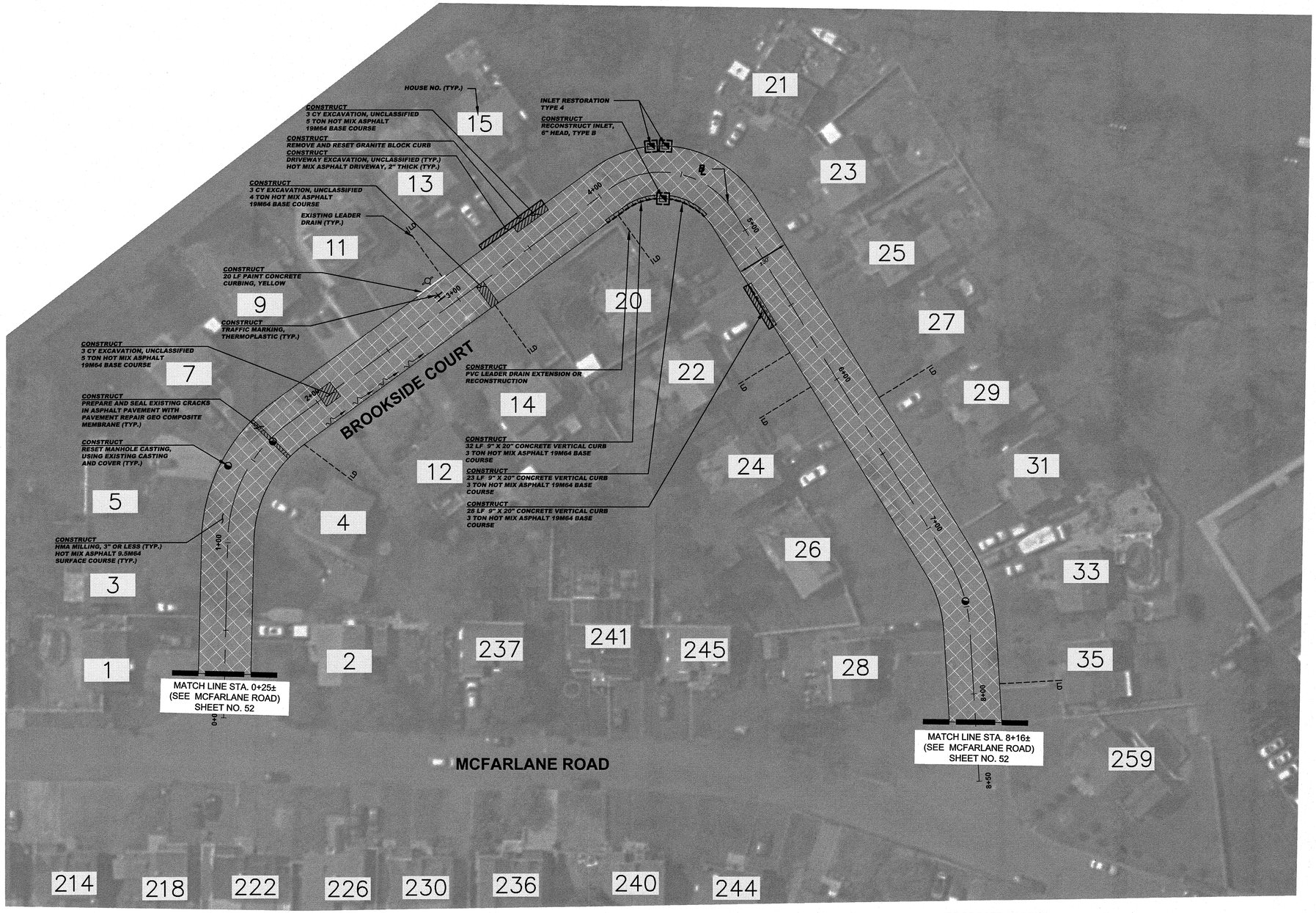
REGISTER NO. PW80A615.01

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 (732) 727 8000
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194 (732) 462 7400

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE As Shown	DATE May 2024	DRAWING NUMBER	C-40
DRAWN BY SH	DESIGNED BY SH/PD		
CHECKED BY GO	SHEET 44 of 77		C-52

TOWNSHIP OF WOODBRIDGE | **COUNTY OF MIDDLESEX**



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

CONSTRUCT (BROOKSIDE COURT)

9	CY	EXCAVATION, UNCLASSIFIED
7	CY	DRIVEWAY EXCAVATION, UNCLASSIFIED
2638	SY	HMA MILLING, 3" OR LESS
2936	LF	POLYMERIZED JOINT ADHESIVE
30	LF	PREPARE AND SEAL EXISTING TRANSVERSE CRACKS IN ASPHALT PAVEMENT WITH PAVEMENT REPAIR GEO COMPOSITE MEMBRANE
390	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
23	TON	HOT MIX ASPHALT 19M64 BASE COURSE
1	UN	PVC. SDR-35 LEADER DRAIN EXTENSION OR RECONSTRUCTION
3	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
2	UN	RESET EXISTING CASTING
1	UN	RECONSTRUCT INLET, TYPE B
24	SY	HOT MIX ASPHALT DRIVEWAY RESTORATION, 2" THICK
83	LF	9"x20" CONCRETE VERTICAL CURB
20	LF	PAINT CONCRETE CURBING
6	SF	TRAFFIC MARKINGS, THERMOPLASTIC
47	SY	TOPSOILING, 4" THICK, INCLUDING FINE GRADING
47	SY	FERTILIZING AND SEEDING
47	SY	TOPSOIL STABILIZATION, TYPE 2 MAT

SPECIAL PROVISIONS

THE CONTRACTOR IS SPECIFICALLY DIRECTED TO THE REQUIREMENTS CONTAINED IN THE SPECIAL PROVISIONS SECTION OF THE CONTRACT SPECIFICATIONS.

PROPOSED CURB AND/OR ROADWAY REPLACEMENT

THE CONTRACTOR IS ADVISED THAT THEIR LICENSED LAND SURVEYOR SHALL PROVIDE THE CONSTRUCTION STAKEOUT FOR THE PROJECT AND THAT IS THE INTENT OF THE CONTRACT DOCUMENTS TO INSTALL THE NEW CURB, EDGE OF PAVEMENT, AND ROADWAY AT ITS PRESENT HORIZONTAL LOCATION AND VERTICAL LOCATION EXCEPT WHERE PROPOSED GRADES HAVE BEEN INDICATED ON THE PLAN. ACCORDINGLY, THE FULL RESPONSIBILITY FOR KEEPING AND MAINTAINING THE EXISTING ALIGNMENT AND GRADE PRIOR TO REMOVAL OF THE EXISTING CURB AND MILLING AND/OR EXCAVATION OF THE PAVEMENT SHALL REST UPON THE CONTRACTOR IN ACCORDANCE WITH DIVISION 1 GENERAL REQUIREMENTS SECTION 1-4.4 OF THE PROJECT SPECIFICATIONS.

INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
- DENOTES RECONSTRUCT INLET
- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
- DENOTES APPROXIMATE LOCATION OF EXISTING HIGH POINT
- DENOTES APPROXIMATE LOCATION OF EXISTING LOW POINT
- DENOTES TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC WITH GLASS BEADS, FOR FIRE HYDRANT
- DENOTES PAINT CONCRETE CURBING, YELLOW
- DENOTES BENCH MARK LOCATION
- DENOTES EXISTING TREES OR STUMPS TO BE REMOVED
- DENOTES RESET BRICKWALK/ PAVERS
- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
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No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – BROOKSIDE COURT

WARD 5

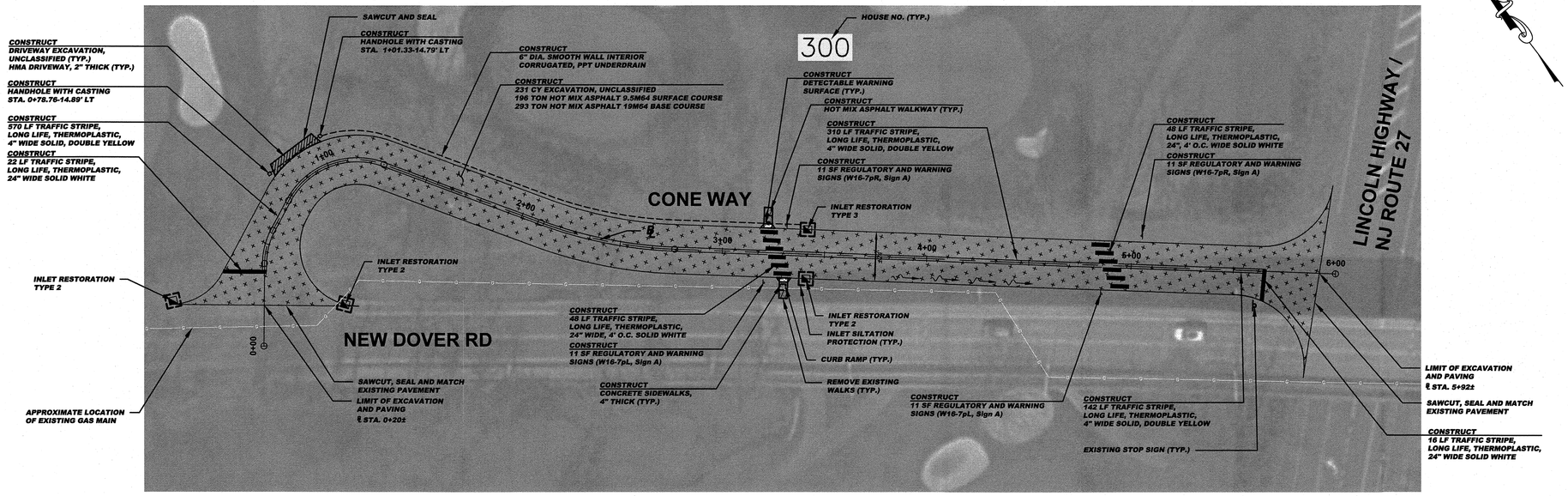
CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 (732) 727 8000
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194 (732) 462 7400

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5-15-24

SCALE	As Shown
DATE	May 2024
DRAWN BY	PD
DESIGNED BY	PD
CHECKED BY	GO
SHEET	45 of 77

DRAWING NUMBER C-41 C-52

REGISTER NO. FILE NO. PWB0A615.01



CONSTRUCT (CONE WAY)

4	CY	DRIVEWAY EXCAVATION, UNNCLASSIFIED
231	CY	EXCAVATION, UNCLASSIFIED
4229	LF	POLYMERIZED JOINT ADHESIVE
221	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT
196	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
293	TON	HOT MIX ASPHALT 19M64 BASE COURSE
276	LF	6" DIA. SMOOTH WALL INTERIOR CORRUGATED PPT UNDERDRAIN
2	UN	HANDHOLE WITH CASTING
4	UN	RESET EXISTING CASTING
1	UN	CURB PIECE TYPE "N-ECO"
4	UN	BICYCLE SAFE GRATE
7	SY	CONCRETE SIDEWALKS, 4" THICK
14	SY	HOT MIX ASPHALT DRIVEWAY RESTORATION, 2" THICK
4	SY	HOT MIX ASPHALT WALKWAY RESTORATION
2	SY	DETECTABLE WARNING SURFACE
1022	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
134	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
44	SF	REGULATORY AND WARNING SIGNS
184	SY	TOPSOILING, 4" THICK
184	SY	FERTILIZING AND SEEDING
184	SY	TOPSOIL STABILIZATION, TYPE 2MAT

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

BASELINES

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PROPOSED LEGEND:

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W16-7pL
24"X12"

Sign A
36"X36"

SIGN LEGEND

N.T.S.

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No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

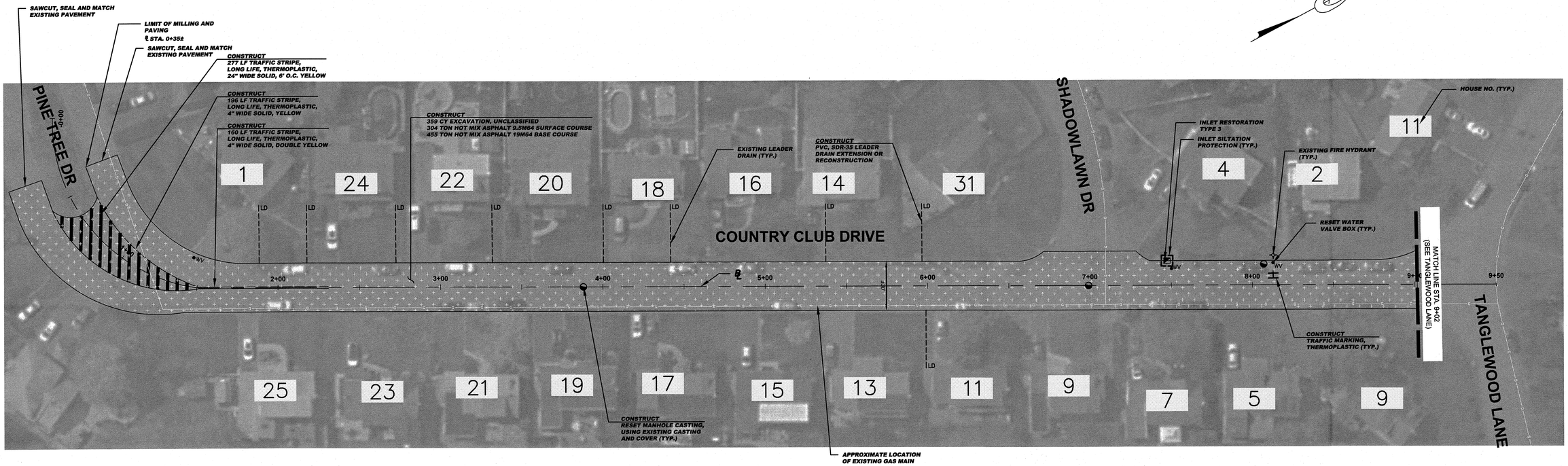
2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – CONE WAY

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
(732) 727 8000 (732) 462 7400
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28159000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
DRAWN BY	PD
DESIGNED BY	PD
CHECKED BY	GO
SHEET	46 of 77
REGISTER NO.	
FILE NO.	PWB0A615.01
DRAWING NUMBER	C-42 / C-52



CONSTRUCT (COUNTRY CLUB DRIVE)

450	CY	EXCAVATION, UNCLASSIFIED 5" DEEP
5839	LF	POLYMERIZED JOINT ADHESIVE
133	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT
381	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
571	TON	HOT MIX ASPHALT 19M64 BASE COURSE
3	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
1	UN	RESET EXISTING CASTING
1	UN	CURB PIECE TYPE "N-ECO"
1	UN	BICYCLE SAFE GRATE
356	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
277	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
6	SF	TRAFFIC MARKINGS, THERMOPLASTIC
3	UN	RESET WATER VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft.

INLET RESTORATION:

TYPE 1 - RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO

TYPE 2 - RESET EXISTING CASTING BICYCLE SAFE GRATE

TYPE 3 - RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE

TYPE 4 - RESET EXISTING CASTING

BASELINES

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PROPOSED LEGEND:

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- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
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- DENOTES PROPOSED DETECTABLE WARNING SURFACE
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- DENOTES DIRECTION OF FLOW
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- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
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- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE EXCAVATION) AND PAVING WITH 19M64 BASE COURSE
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No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – COUNTRY CLUB DRIVE

WARD 5

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 (732) 727 8000
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194 (732) 462 7400

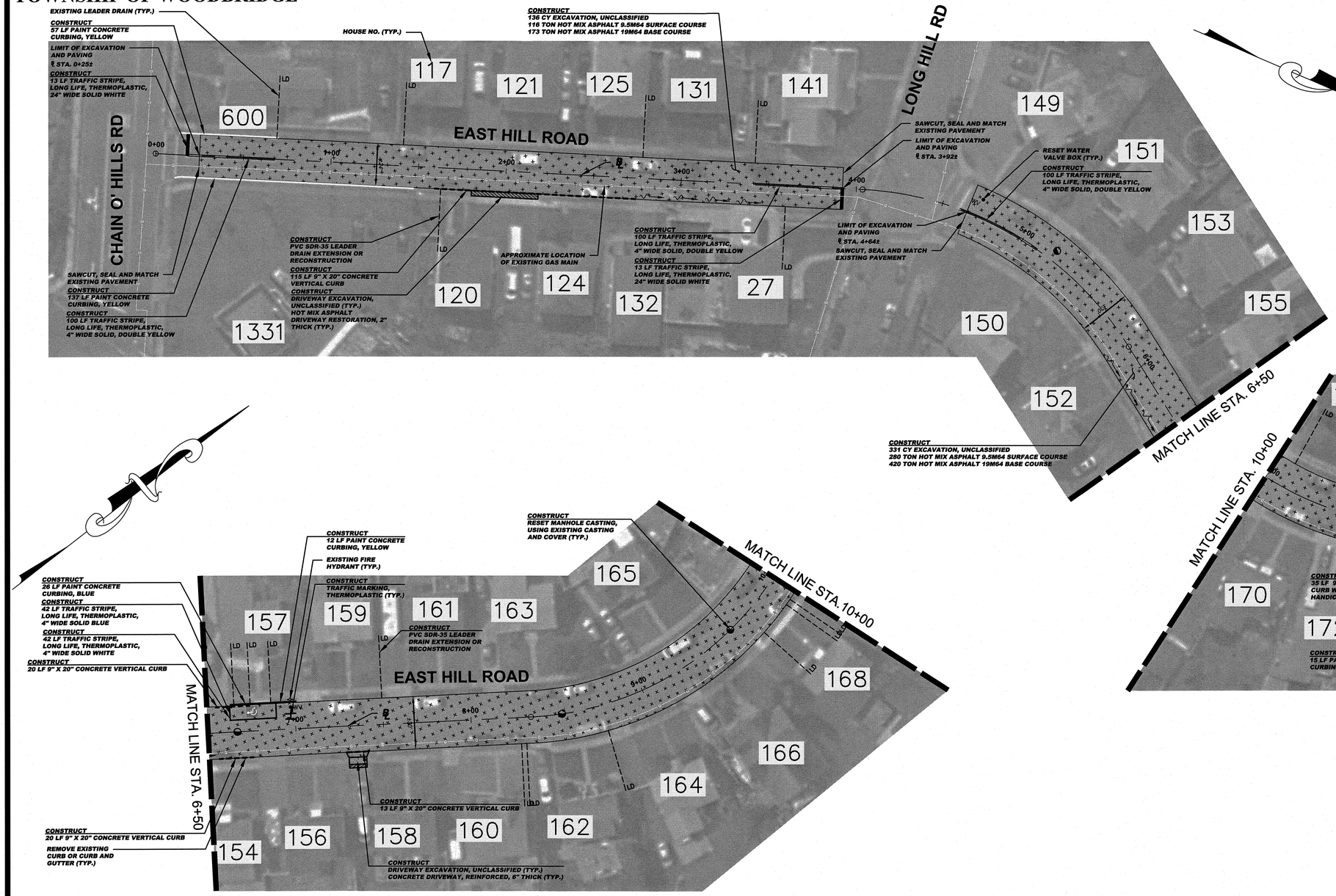
GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

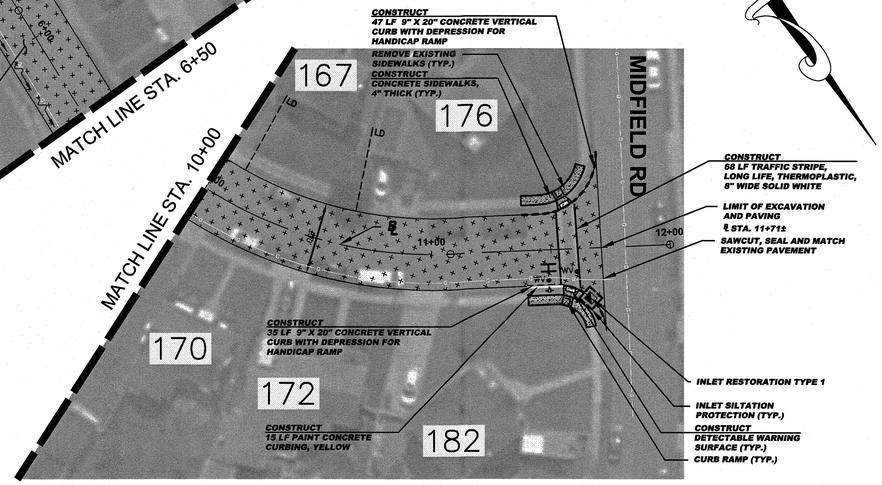
SCALE	As Shown
DATE	May 2024
DRAWN BY	AW
DESIGNED BY	AW/PD
CHECKED BY	GO
SHEET	47 of 77

DRAWING NUMBER C-43 C-52

REGISTER NO. 24 GA PWB0A615.01

TOWNSHIP OF WOODBRIDGE — **COUNTY OF MIDDLESEX**





GRAPHIC SCALE

30 0 15 30 60 120

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CONSTRUCT (EAST HILL ROAD)

7	CY	DRIVEWAY EXCAVATION, UNCLASSIFIED
467	CY	EXCAVATION UNCLASSIFIED, 5" DEEP
7449	LF	POLYMERIZED JOINT ADHESIVE
162	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT
396	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
593	TON	HOT MIX ASPHALT 19M64 BASE COURSE
2	UN	PVC, SDR-35 LEADER DRAIN EXTENSION OR RECONSTRUCTION
4	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
1	UN	RESET EXISTING CASTING
1	UN	CURB PIECE, TYPE "N-ECO"
33	SY	CONCRETE SIDEWALKS, 4" THICK
9	SY	CONCRETE DRIVEWAYS AND APRONS, REINFORCED, 6" THICK
15	SY	HOT MIX ASPHALT DRIVEWAY RESTORATION, 2" THICK
2	SY	DETECTABLE WARNING SURFACE
250	LF	9"X20" CONCRETE VERTICAL CURB
247	LF	PAINT CONCRETE CURBING
384	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
68	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
26	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
34	SF	TRAFFIC MARKINGS, THERMOPLASTIC
4	UN	RESET WATER VALVE BOX
139	SY	TOPSOILING, 4" THICK
139	SY	FERTILIZING AND SEEDING
139	SY	TOPSOIL STABILIZATION, TYPE 2 MAT

INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
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- DENOTES EXISTING TREES OR STUMPS TO BE REMOVED
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- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
- DENOTES CONCRETE DRIVEWAY RESTORATION
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE EXCAVATION) AND PAVING WITH 19M64 BASE COURSE
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE TEMPORARY TRENCH REPAIR)
- DENOTES PROPOSED CONCRETE SIDEWALK AND DRIVEWAY APRON
- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE AND 3" HOT MIX ASPHALT 19M64 BASE COURSE
- DENOTES AREA TO BE MILLED AND RECEIVE MIN. 2" HMA 9.5M64 SURFACE COURSE
- DENOTES AREA TO BE MILLED, EXISTING CRACK TO BE CLEANED AND SEALED, AND GEO COMPOSITE MATERIAL TO BE INSTALLED
- DENOTES AREA TO BE EXCAVATED UP TO 9" AND RECEIVE HMA 19M64 BASE COURSE
- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE 7" HOT MIX ASPHALT 19M64 BASE COURSE 6" DENSE GRADED AGGREGATE BASE COURSE
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No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – EAST HILL ROAD

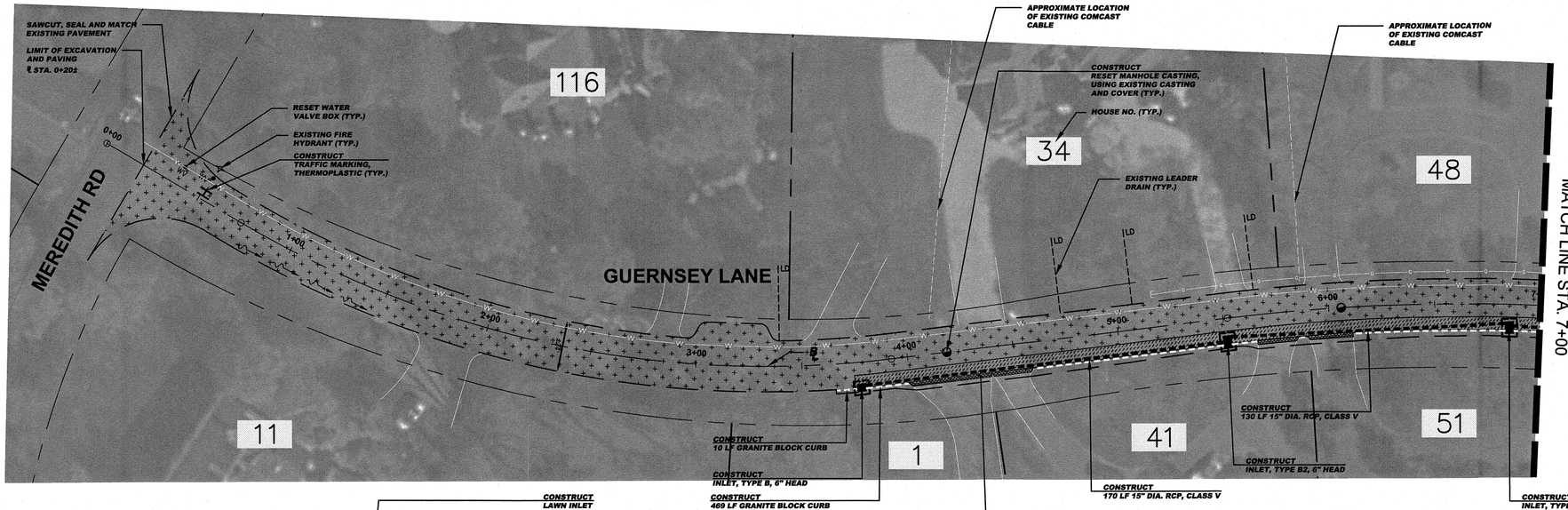
WARD 5

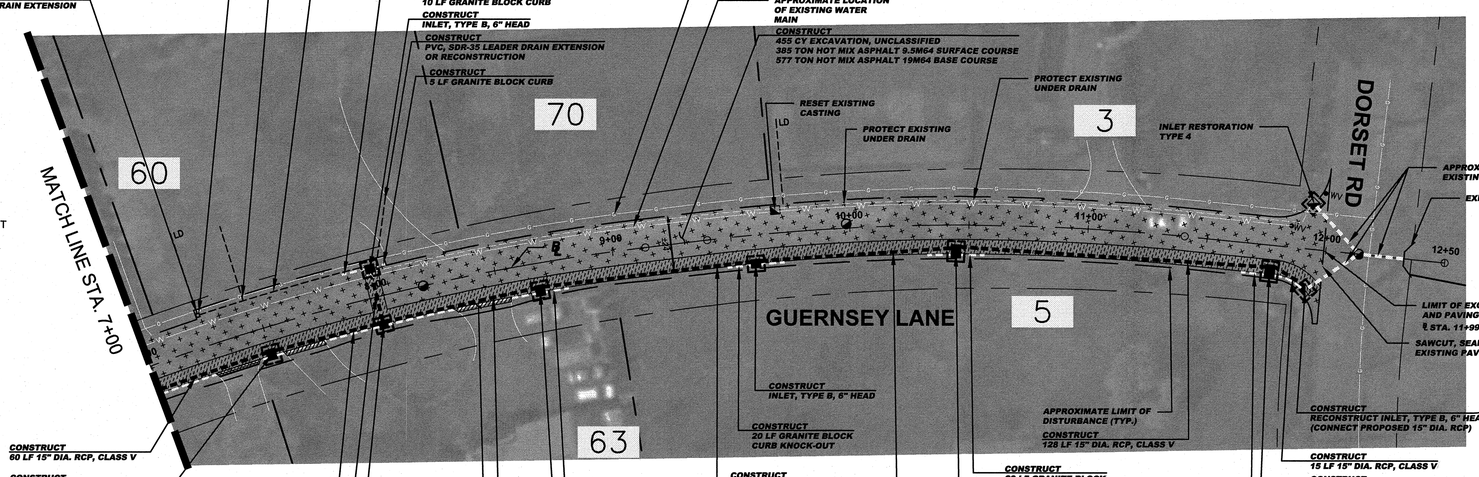
CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
(732) 727 8000 (732) 462 7400
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000

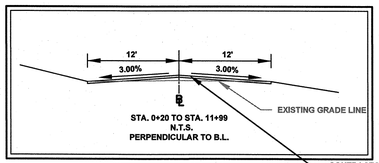
GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE As Shown	DATE May 2024	REGISTER NO.	
DRAWN BY PD	DESIGNED BY PD	FILE NO.	PWB0A615.01
CHECKED BY GO	SHEET 48 of 77	DRAWING NUMBER	C-44 C-52

TOWNSHIP OF WOODBRIDGE | **COUNTY OF MIDDLESEX**







TYPICAL SECTION – GUERNSEY LANE

CONSTRUCT (GUERNSEY AVENUE)

455	CY	EXCAVATION, UNCLASSIFIED
15	CY	EXCAVATION, UNCLASSIFIED, TEST PIT
10	CY	DRIVEWAY EXCAVATION, UNCLASSIFIED
1091	CY	2" TO 2-1/2" CLEAN STONE SUBBASE
3273	SY	GEOTEXTILE ROADWAY STABILIZATION
8132	LF	POLYMERIZED JOINT ADHESIVE
170	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT
609	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
577	TON	HOT MIX ASPHALT 19M64 BASE COURSE
2	UN	PVC, SDR-35 LEADER DRAIN EXTENSION OR RECONSTRUCTION
75	LF	6" DIA. SMOOTH WALL INTERIOR, CORRUGATED PPT UNDERDRAIN
1	UN	CONNECT LEADER DRAIN OR SUMP DRAINS TO PROPOSED 6" DIA. PPT UNDERDRAIN
802	LF	15" DIA. REINFORCED CONCRETE PIPE, CLASS V STORM SEWER
357	CY	DENSE GRADED AGGREGATE FOR PIPE TRENCH
5	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
2	UN	RESET EXISTING CASTING
1	UN	RECONSTRUCT INLET, 6" HEAD, TYPE B
4	UN	INLET, TYPE B, 6" HEAD
2	UN	INLET, TYPE B1, 6" HEAD
4	UN	INLET, TYPE B2, 6" HEAD
1	UN	LAWN INLET
10	SY	HOT MIX ASPHALT DRIVEWAY, 2" THICK
232	SF	DRIVEWAY RESTORATION, PAVERS
568	LF	GRANITE BLOCK CURB
6	SF	TRAFFIC MARKINGS, THERMOPLASTIC
535	SY	TEMPORARY TRENCH REPAIR
535	SY	ROADWAY TRENCH REPAIR
4	UN	RESET WATER VALVE BOX
511	SY	TOPSOILING, 4" THICK
511	SY	FERTILIZING AND SEEDING
511	SY	TOPSOIL STABILIZATION, TYPE 2MAT

PROPOSED STORM SEWER

CONTRACTOR WILL COORDINATE THE INSTALLATION OF THE PROPOSED STORM SEWER WITH THE TOWNSHIP. MINIMUM PIPE COVER WILL BE 6" AND MINIMUM PIPE SLOPE WILL BE 0.50%.

SPECIAL PROVISIONS

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PROPOSED CURB AND/OR ROADWAY REPLACEMENT

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TEST PITS

THE CONTRACTOR IS RESPONSIBLE FOR REQUESTING MARKOUTS FOR ALL EXISTING UTILITIES, AND EXCAVATING TEST PITS AS NECESSARY TO EVALUATE POTENTIAL UTILITY CONFLICTS PRIOR TO THE INSTALLATION OF THE PROPOSED STORM SEWER IMPROVEMENTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR COORDINATING THE RELOCATION OF ANY EXISTING UTILITIES WHERE TEST PITS DEMONSTRATE THEY ARE IN CONFLICT WITH PROPOSED STORM SEWER IMPROVEMENTS.

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
- DENOTES RECONSTRUCT INLET
- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
- DENOTES APPROXIMATE LOCATION OF EXISTING HIGH POINT
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- DENOTES TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC WITH GLASS BEADS, FOR FIRE HYDRANT
- DENOTES PAINT CONCRETE CURBING, YELLOW
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TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – GUERNSEY LANE

WARD 5

CVE ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 (732) 727 8000
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194 (732) 462 7400

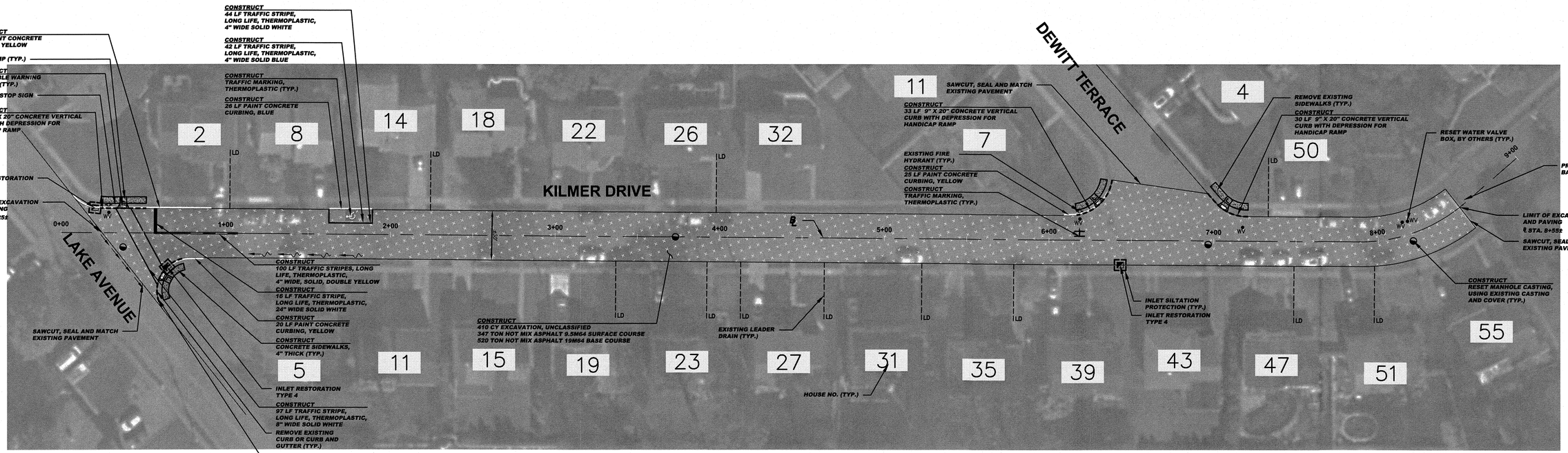
GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
DRAWN BY	AW
DESIGNED BY	AWPD
CHECKED BY	GO
SHEET	49 of 77

DRAWING NUMBER: C-45, C-52

PROJECT NO. PWB0A615.01

TOWNSHIP OF WOODBRIDGE | **COUNTY OF MIDDLESEX**



GRAPHIC SCALE

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(IN FEET)
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SPECIAL PROVISIONS

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CONSTRUCT (KILMER DRIVE)

410	CY	EXCAVATION, UNCLASSIFIED
5772	LF	POLYMERIZED JOINT ADHESIVE
347	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
520	TON	HOT MIX ASPHALT 19M64 BASE COURSE
179	LF	PREPARE & SEAL EXISTING JOINTS & CRACKS IN ASPHALT PAVEMENT
4	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
3	UN	RESET EXISTING CASTING
55	SY	CONCRETE SIDEWALK, 4" THICK
4	SY	DETECTABLE WARNING SURFACE
188	LF	9"X20" CONCRETE VERTICAL CURB
151	LF	PAINT CONCRETE CURBING
186	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
97	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
16	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
29	SF	TRAFFIC MARKINGS, THERMOPLASTIC
5	UN	RESET WATER VALVE BOX
105	SY	TOPSOILING, 4" THICK
105	SY	FERTILIZING AND SEEDING
105	SY	TOPSOIL STABILIZATION, TYPE 2MAT

INLET RESTORATION:

TYPE 1 - RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2 - RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3 - RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4 - RESET EXISTING CASTING

BASELINES

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PROPOSED LEGEND:

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- DENOTES RESET MANHOLE CASTING
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- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
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- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
- DENOTES APPROXIMATE LOCATION OF EXISTING HIGH POINT
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- DENOTES TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC WITH GLASS BEADS, FOR FIRE HYDRANT
- DENOTES PAINT CONCRETE CURBING, YELLOW
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No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – KILMER DRIVE

WARD 5

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
(732) 727 8000 (732) 462 7400
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
DRAWN BY	PD
DESIGNED BY	PD
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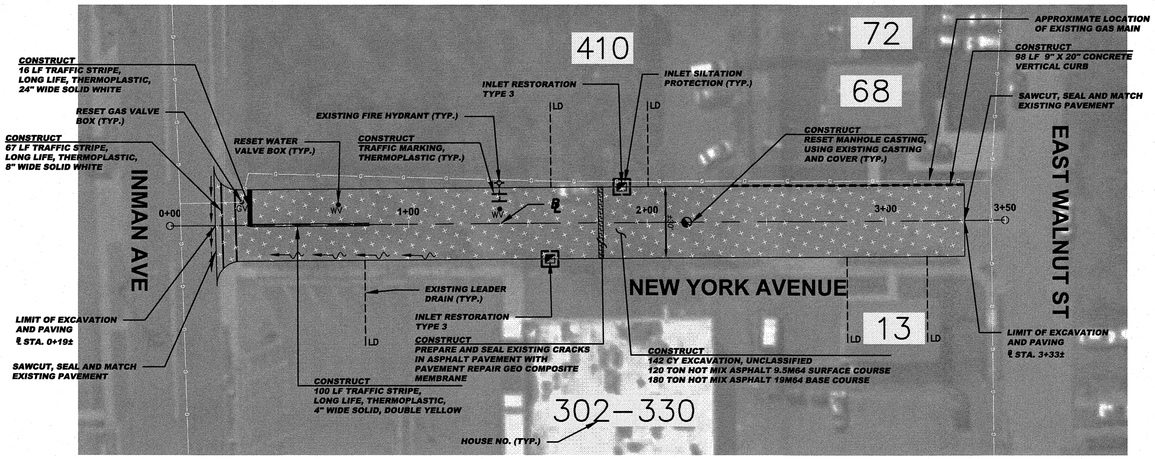
SHEET	50 of 77

REGISTER NO. FILE NO. PWB0A615.01

DRAWING NUMBER C-46 C-52



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

CONSTRUCT (NEW YORK AVENUE)

146	CY	EXCAVATION, UNCLASSIFIED
2257	LF	POLYMERIZED JOINT ADHESIVE
124	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
186	TON	HOT MIX ASPHALT 19M64 BASE COURSE
5	UN	PVC, SDR-35 LEADER DRAIN EXTENSION OR RECONSTRUCTION.
80	LF	PREPARE & SEAL EXISTING JOINTS & CRACKS IN ASPHALT PAVEMENT
30	LF	PREPARE & SEAL EXISTING TRANSVERSE & CRACKS IN ASPHALT PAVEMENT
1	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
2	UN	RESET EXISTING CASTING
2	UN	CURB PIECE, TYPE "N-ECO"
2	UN	BICYCLE SAFE GRATE
98	LF	9"X20" CONCRETE VERTICAL CURB
100	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
67	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
16	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
6	SF	TRAFFIC MARKINGS, THERMOPLASTIC
2	UN	RESET WATER VALVE BOX
1	UN	RESET GAS VALVE BOX
55	SY	TOPSOILING, 4" THICK
55	SY	FERTILIZING AND SEEDING
55	SY	TOPSOIL STABILIZATION, TYPE 2MAT

SPECIAL PROVISIONS

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INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
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TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

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TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – NEW YORK AVENUE

WARD 5

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
(732) 727 8000 (732) 462 7400
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
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SHEET	51 of 77

REGISTER NO. PWB0A615.01

DRAWING NUMBER C-47 C-52

TOWNSHIP OF WOODBRIDGE

COUNTY OF MIDDLESEX

CHAIN O' HILLS ROAD / CR-650

MCFARLANE ROAD

LONG HILL ROAD

NORTH HILL ROAD

BROOKSIDE COURT

MATCH LINE STA. 0+25± (SEE BROOKSIDE COURT)

MATCH LINE STA. 8+16± (SEE BROOKSIDE COURT)

MATCH LINE STA. 10+50

MATCH LINE STA. 10+50

CONSTRUCT 16 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 24" WIDE SOLID WHITE

CONSTRUCT 100 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 4" WIDE SOLID, DOUBLE YELLOW

REMOVE EXISTING TREE (TYP.)

CONSTRUCT 5 CY EXCAVATION, UNCLASSIFIED 5 TON HOT MIX ASPHALT 19M64 BASE COURSE

CONSTRUCT 9 CY EXCAVATION, UNCLASSIFIED 15 TON HOT MIX ASPHALT 19M64 BASE COURSE

CONSTRUCT 68 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 8" WIDE SOLID WHITE

SAWCUT, SEAL AND MATCH EXISTING PAVEMENT

LIMIT OF MILLING AND PAVING ℄STA. 0+ 40±

CONSTRUCT 3 CY EXCAVATION, UNCLASSIFIED 5 TON HOT MIX ASPHALT 19M64 BASE COURSE

CONSTRUCT 5 CY EXCAVATION, UNCLASSIFIED 9 TON HOT MIX ASPHALT 19M64 BASE COURSE

EXISTING FIRE HYDRANT (TYP.)

CONSTRUCT TRAFFIC MARKING, THERMOPLASTIC (TYP.)

CONSTRUCT RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER (TYP.)

HOUSE NO. (TYP.)

CONSTRUCT 10 CY EXCAVATION, UNCLASSIFIED 16 TON HOT MIX ASPHALT 19M64 BASE COURSE

CONSTRUCT 10 CY EXCAVATION, UNCLASSIFIED 16 TON HOT MIX ASPHALT 19M64 BASE COURSE

CONSTRUCT 2 CY EXCAVATION, UNCLASSIFIED 4 TON HOT MIX ASPHALT 19M64 BASE COURSE

EXISTING LEADER DRAIN (TYP.)

INLET RESTORATION TYPE 3

INLET SILTATION PROTECTION (TYP.)

CONSTRUCT PREPARE AND SEAL EXISTING CRACKS IN ASPHALT PAVEMENT WITH PAVEMENT REPAIR GEO COMPOSITE MEMBRANE (TYP.)

CONSTRUCT 6 CY EXCAVATION, UNCLASSIFIED 10 TON HOT MIX ASPHALT 19M64 BASE COURSE

INLET RESTORATION TYPE 4

SAWCUT, SEAL AND MATCH EXISTING PAVEMENT

LIMIT OF EXCAVATION AND PAVING ℄STA. 6+08±

INLET RESTORATION TYPE 4

CONSTRUCT 16 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 24" WIDE SOLID WHITE

INLET RESTORATION TYPE 4

CONSTRUCT 100 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 4" WIDE SOLID, DOUBLE YELLOW

SAWCUT, SEAL AND MATCH EXISTING PAVEMENT

LIMIT OF EXCAVATION AND PAVING ℄STA. 6+36±

CONSTRUCT 7 CY EXCAVATION, UNCLASSIFIED 12 TON HOT MIX ASPHALT 19M64 BASE COURSE

RESET WATER VALVE BOX (TYP.)

CONSTRUCT 16 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 24" WIDE SOLID WHITE

CONSTRUCT 100 LF TRAFFIC STRIPE, LONG LIFE, THERMOPLASTIC, 4" WIDE SOLID, DOUBLE YELLOW

CONSTRUCT 2 CY EXCAVATION, UNCLASSIFIED 4 TON HOT MIX ASPHALT 19M64 BASE COURSE

INLET RESTORATION TYPE 3

INLET RESTORATION TYPE 3

INLET RESTORATION TYPE 4

INLET RESTORATION TYPE 4

CONSTRUCT 10 LF 9" X 20" CONCRETE VERTICAL CURB 1 TON HOT MIX ASPHALT 19M64 BASE COURSE

CONSTRUCT PVC, SDR-35 LEADER DRAIN EXTENSION OR RECONSTRUCTION

INLET RESTORATION TYPE 3

INLET RESTORATION TYPE 3

INLET RESTORATION TYPE 3

CONSTRUCT 26 CY EXCAVATION, UNCLASSIFIED 43 TON HOT MIX ASPHALT 19M64 BASE COURSE

INLET RESTORATION TYPE 3

CONSTRUCT 20 LF PAINT CONCRETE CURBING, YELLOW

CONSTRUCT 20 LF PAINT CONCRETE CURBING, YELLOW

INLET RESTORATION TYPE 3

INLET RESTORATION TYPE 3

INLET RESTORATION TYPE 3

CONSTRUCT 28 CY EXCAVATION, UNCLASSIFIED 47 TON HOT MIX ASPHALT 19M64 BASE COURSE

CONSTRUCT 11 CY EXCAVATION, UNCLASSIFIED 18 TON HOT MIX ASPHALT 19M64 BASE COURSE

CONSTRUCT 20 LF 9" X 20" CONCRETE VERTICAL CURB 2 TON HOT MIX ASPHALT 19M64 BASE COURSE

CONSTRUCT PVC, SDR-35 LEADER DRAIN EXTENSION OR RECONSTRUCTION

CONSTRUCT HMA MILLING, 3" OR LESS (TYP.) HOT MIX ASPHALT 9.5M64 SURFACE COURSE (TYP.)

CONSTRUCT 14 CY EXCAVATION, UNCLASSIFIED 23 TON HOT MIX ASPHALT 19M64 BASE COURSE

INLET RESTORATION TYPE 3

SAWCUT, SEAL AND MATCH EXISTING PAVEMENT

INLET RESTORATION TYPE 3

LIMIT OF MILLING AND PAVING ℄STA. 20+16±

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft.

CONSTRUCT (MCFARLANE ROAD)

138	CY	EXCAVATION, UNCLASSIFIED
7194	SY	HMA MILLING, 3" OR LESS
9007	LF	POLYMERIZED JOINT ADHESIVE
319	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT
712	LF	PREPARE AND SEAL EXISTING TRANSVERSE CRACKS IN ASPHALT PAVEMENT WITH PAVEMENT REPAIR GEO COMPOSITE MEMBRANE
1041	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
233	TON	HOT MIX ASPHALT 19M64 BASE COURSE
2	UN	PVC. SDR-35 LEADER DRAIN EXTENSION OR RECONSTRUCTION
13	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
19	UN	RESET EXISTING CASTING
13	UN	CURB PIECE TYPE "N-ECO"
13	UN	BICYCLE SAFE GRATE
30	LF	9"x20" CONCRETE VERTICAL CURB
40	LF	PAINT CONCRETE CURBING
300	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
68	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
48	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
18	SF	TRAFFIC MARKINGS, THERMOPLASTIC
13	UN	RESET WATER VALVE BOX
17	SY	TOPSOILING, 4" THICK, INCLUDING FINE GRADING
17	SY	FERTILIZING AND SEEDING
17	SY	TOPSOIL STABILIZATION, TYPE 2 MAT

SPECIAL PROVISIONS

THE CONTRACTOR IS SPECIFICALLY DIRECTED TO THE REQUIREMENTS CONTAINED IN THE SPECIAL PROVISIONS SECTION OF THE CONTRACT SPECIFICATIONS.

PROPOSED CURB AND/OR ROADWAY REPLACEMENT

THE CONTRACTOR IS ADVISED THAT THEIR LICENSED LAND SURVEYOR SHALL PROVIDE THE CONSTRUCTION STAKEOUT FOR THE PROJECT AND THAT IS THE INTENT OF THE CONTRACT DOCUMENTS TO INSTALL THE NEW CURB, EDGE OF PAVEMENT, AND ROADWAY AT ITS PRESENT HORIZONTAL LOCATION AND VERTICAL LOCATION EXCEPT WHERE PROPOSED GRADES HAVE BEEN INDICATED ON THE PLAN. ACCORDINGLY, THE FULL RESPONSIBILITY FOR KEEPING AND MAINTAINING THE EXISTING ALIGNMENT AND GRADE PRIOR TO REMOVAL OF THE EXISTING CURB AND MILLING AND/OR EXCAVATION OF THE PAVEMENT SHALL REST UPON THE CONTRACTOR IN ACCORDANCE WITH DIVISION 1 GENERAL REQUIREMENTS SECTION 1-4.4 OF THE PROJECT SPECIFICATIONS.

INLET RESTORATION:

TYPE 1 - RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO

TYPE 2 - RESET EXISTING CASTING BICYCLE SAFE GRATE

TYPE 3 - RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE

TYPE 4 - RESET EXISTING CASTING

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
- DENOTES RECONSTRUCT INLET
- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
- DENOTES APPROXIMATE LOCATION OF EXISTING HIGH POINT
- DENOTES APPROXIMATE LOCATION OF EXISTING LOW POINT
- DENOTES TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC WITH GLASS BEADS, FOR FIRE HYDRANT
- DENOTES PAINT CONCRETE CURBING, YELLOW
- DENOTES BENCH MARK LOCATION
- DENOTES EXISTING TREES OR STUMPS TO BE REMOVED
- DENOTES RESET BRICKWALK/ PAVERS
- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
- DENOTES CONCRETE DRIVEWAY RESTORATION
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE EXCAVATION) AND PAVING WITH 19M64 BASE COURSE
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE TEMPORARY TRENCH REPAIR)
- DENOTES PROPOSED CONCRETE SIDEWALK AND DRIVEWAY APRON
- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE AND 3" HOT MIX ASPHALT 19M64 BASE COURSE
- DENOTES AREA TO BE MILLED AND RECEIVE MIN. 2" HMA 9.5M64 SURFACE COURSE
- DENOTES AREA TO BE MILLED, EXISTING CRACK TO BE CLEANED AND SEALED, AND GEO COMPOSITE MATERIAL TO BE INSTALLED
- DENOTES AREA TO BE EXCAVATED UP TO 9" AND RECEIVE HMA 19M64 BASE COURSE
- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE 7" HOT MIX ASPHALT 19M64 BASE COURSE 6" DENSE GRADED AGGREGATE BASE COURSE
- DENOTES ROADWAY TRENCH REPAIR AREA 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE 7" HOT MIX ASPHALT 19M64 BASE COURSE 6" DENSE GRADED AGGREGATE BASE COURSE

No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – MCFARLANE ROAD

WARD 5

REGISTER NO.

FILE NO. PWB0A615.01

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
(732) 727 8000 (732) 462 7400
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000

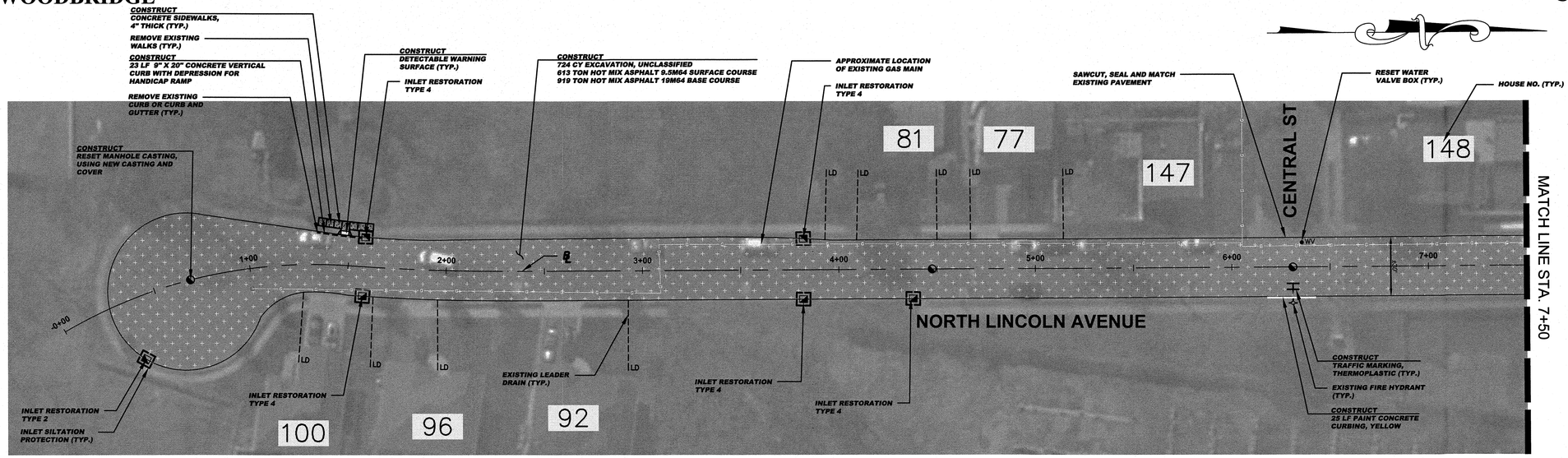
GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

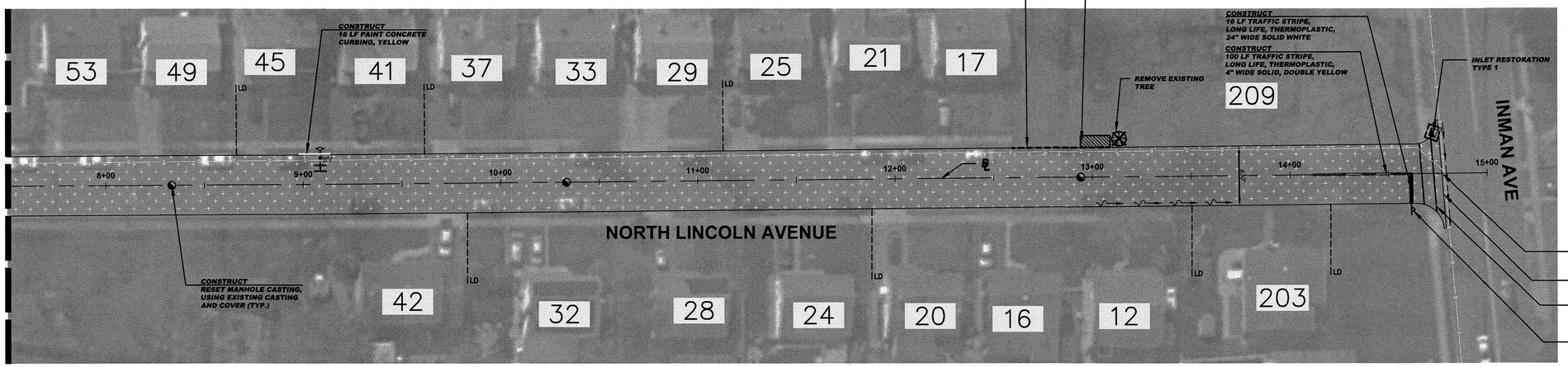
SCALE	As Shown
DATE	May 2024
DRAWN BY	MB
DESIGNED BY	MB/PD
CHECKED BY	GO
SHEET	52of 77

DRAWING NUMBER: C-48 C-52

TOWNSHIP OF WOODBRIDGE

COUNTY OF MIDDLESEX





GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft.

CONSTRUCT (NORTH LINCOLN AVENUE)

3	CY	DRIVEWAY EXCAVATION, UNCLASSIFIED
724	CY	EXCAVATION, UNCLASSIFIED 5" DEEP
9838	LF	POLYMERIZED JOINT ADHESIVE
55	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT
613	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
919	TON	HOT MIX ASPHALT 19M64 BASE COURSE
6	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
1	UN	RESET MANHOLE CASTING, USING NEW CASTING AND COVER
7	UN	RESET EXISTING CASTING
1	UN	CURB PIECE TYPE "N-ECO"
1	UN	BICYCLE SAFE GRATE
14	SY	CONCRETE SIDEWALKS, 4" THICK
10	SY	HOT MIX ASPHALT DRIVEWAY RESTORATION,2" THICK
1	SY	DETECTABLE WARNING SURFACE
73	LF	9"X20" CONCRETE VERTICAL CURB
41	LF	PAINT CONCRETE CURBING
100	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
70	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
16	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
12	SF	TRAFFIC MARKINGS, THERMOPLASTIC
2	UN	RESET WATER VALVE BOX
41	SY	TOPSOILING, 4" THICK
41	SY	FERTILIZING AND SEEDING
41	SY	TOPSOIL STABILIZATION, TYPE 2MAT
1	UN	TREE REPLACEMENT

SPECIAL PROVISIONS

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INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
- DENOTES RECONSTRUCT INLET
- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
- DENOTES APPROXIMATE LOCATION OF EXISTING HIGH POINT
- DENOTES APPROXIMATE LOCATION OF EXISTING LOW POINT
- DENOTES TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC WITH GLASS BEADS, FOR FIRE HYDRANT
- DENOTES PAINT CONCRETE CURBING, YELLOW
- DENOTES BENCH MARK LOCATION
- DENOTES EXISTING TREES OR STUMPS TO BE REMOVED
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- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
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No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

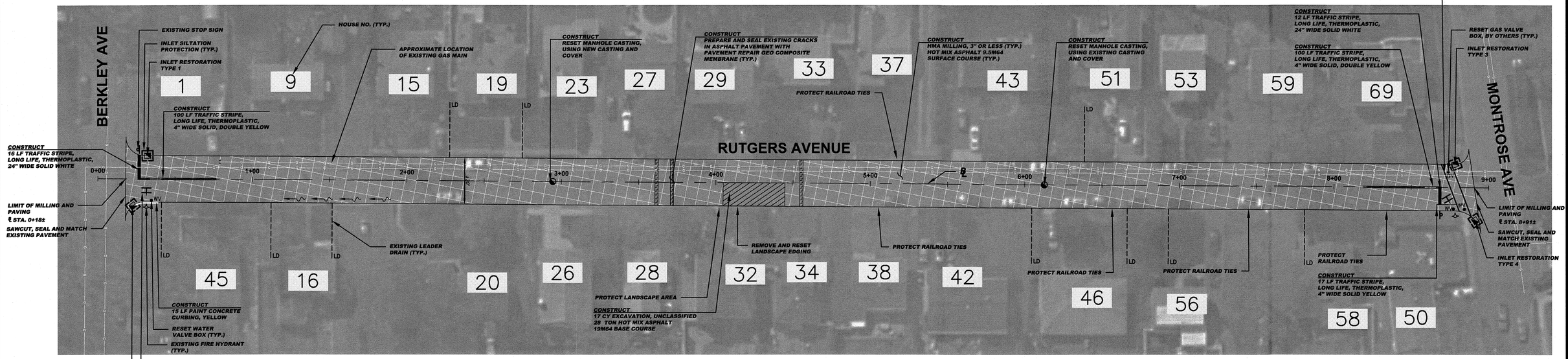
CONSTRUCTION PLAN – NORTH LINCOLN AVENUE

WARD 5

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28059000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 (732) 727 8000
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194 (732) 462 7400

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE: As Shown	DATE: May 2024	REGISTER NO.	
DRAWN BY: AW	DESIGNED BY: AW/PD	FILE NO. PWB0A615.01	
CHECKED BY: GO	SHEET: 53 of 77	DRAWING NUMBER	C-49 to C-52



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

CONSTRUCT (RUTGERS AVENUE)

17	CY	EXCAVATION, UNCLASSIFIED
2924	SY	HMA MILLING, 3" OR LESS
3237	LF	POLYMERIZED JOINT ADHESIVE
109	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT
90	LF	PREPARE AND SEAL EXISTING TRANSVERSE CRACKS IN ASPHALT PAVEMENT WITH PAVEMENT REPAIR GEO COMPOSITE MEMBRANE
432	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
28	TON	HOT MIX ASPHALT 19M64 BASE COURSE
1	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
1	UN	RESET MANHOLE CASTING, USING NEW CASTING AND COVER
4	UN	RESET EXISTING CASTING
2	UN	CURB PIECE TYPE "N-ECO"
1	UN	BICYCLE SAFE GRATE
15	LF	PAINT CONCRETE CURBING
217	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
69	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
28	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
12	SF	TRAFFIC MARKINGS, THERMOPLASTIC
3	UN	RESET WATER VALVE BOX
1	UN	RESET GAS VALVE BOX

SPECIAL PROVISIONS

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PROPOSED CURB AND/OR ROADWAY REPLACEMENT

THE CONTRACTOR IS ADVISED THAT THEIR LICENSED LAND SURVEYOR SHALL PROVIDE THE CONSTRUCTION STAKEOUT FOR THE PROJECT AND THAT IS THE INTENT OF THE CONTRACT DOCUMENTS TO INSTALL THE NEW CURB, EDGE OF PAVEMENT, AND ROADWAY AT ITS PRESENT HORIZONTAL LOCATION AND VERTICAL LOCATION EXCEPT WHERE PROPOSED GRADES HAVE BEEN INDICATED ON THE PLAN. ACCORDINGLY, THE FULL RESPONSIBILITY FOR KEEPING AND MAINTAINING THE EXISTING ALIGNMENT AND GRADE PRIOR TO REMOVAL OF THE EXISTING CURB AND MILLING AND/OR EXCAVATION OF THE PAVEMENT SHALL REST UPON THE CONTRACTOR IN ACCORDANCE WITH DIVISION 1 GENERAL REQUIREMENTS SECTION 1-4.4 OF THE PROJECT SPECIFICATIONS.

INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
- DENOTES RECONSTRUCT INLET
- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
- DENOTES APPROXIMATE LOCATION OF EXISTING HIGH POINT
- DENOTES APPROXIMATE LOCATION OF EXISTING LOW POINT
- DENOTES TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC WITH GLASS BEADS, FOR FIRE HYDRANT
- DENOTES PAINT CONCRETE CURBING, YELLOW
- DENOTES BENCH MARK LOCATION
- DENOTES EXISTING TREES OR STUMPS TO BE REMOVED
- DENOTES RESET BRICKWALK/ PAVERS
- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
- DENOTES CONCRETE DRIVEWAY RESTORATION
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE EXCAVATION) AND PAVING WITH 19M64 BASE COURSE
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE TEMPORARY TRENCH REPAIR)
- DENOTES PROPOSED CONCRETE SIDEWALK AND DRIVEWAY APRON
- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE AND 3" HOT MIX ASPHALT 19M64 BASE COURSE
- DENOTES AREA TO BE MILLED AND RECEIVE MIN. 2" HMA 9.5M64 SURFACE COURSE
- DENOTES AREA TO BE MILLED, EXISTING CRACK TO BE CLEANED AND SEALED, AND GEO COMPOSITE MATERIAL TO BE INSTALLED
- DENOTES AREA TO BE EXCAVATED UP TO 9" AND RECEIVE HMA 19M64 BASE COURSE
- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE 7" HOT MIX ASPHALT 19M64 BASE COURSE 6" DENSE GRADED AGGREGATE BASE COURSE
- DENOTES ROADWAY TRENCH REPAIR AREA 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE 7" HOT MIX ASPHALT 19M64 BASE COURSE 6" DENSE GRADED AGGREGATE BASE COURSE

No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – RUTGERS AVENUE

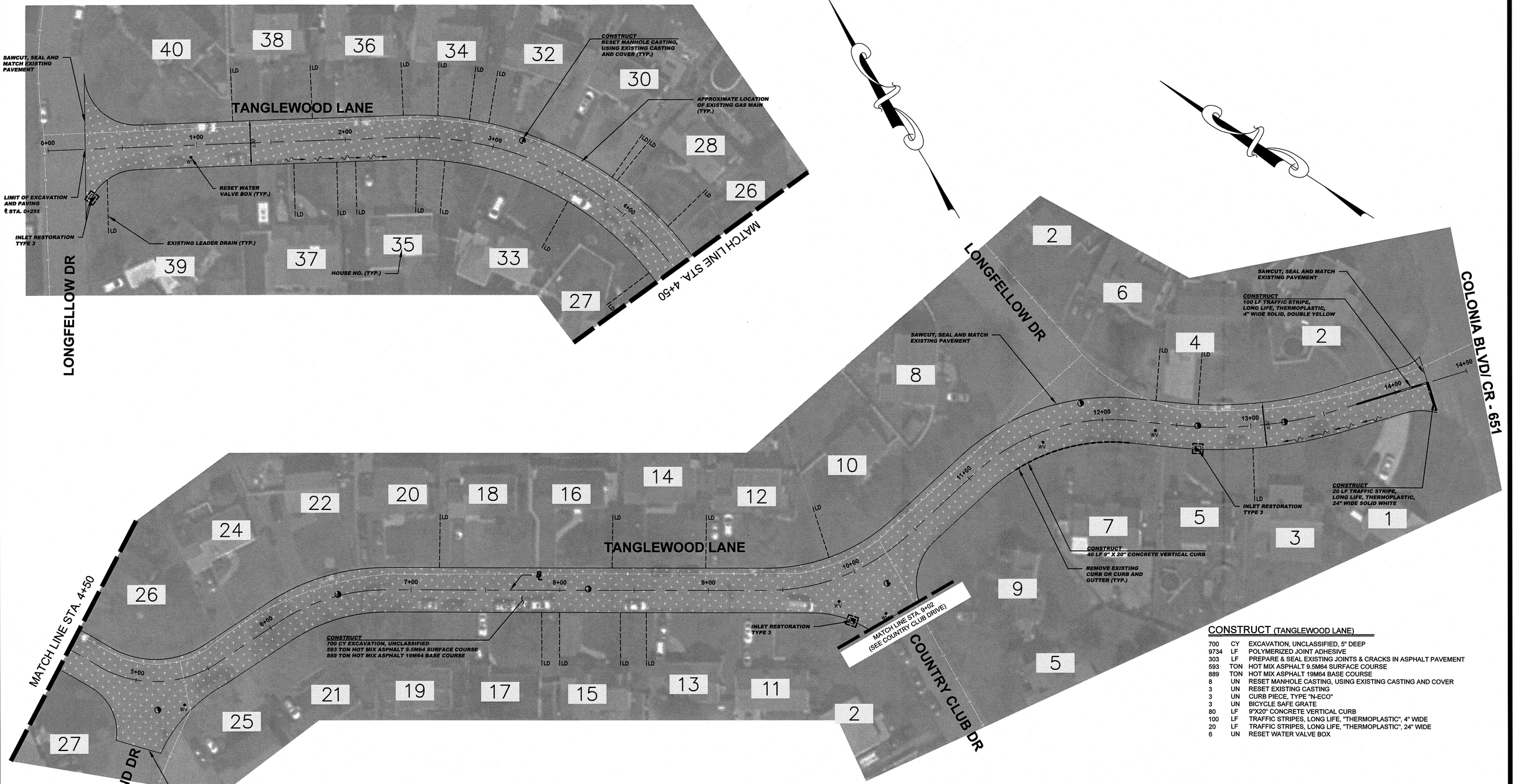
WARD 5

CVE ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
(732) 727 8000 (732) 462 7400
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
DRAWN BY	AW
DESIGNED BY	AW/PD
CHECKED BY	GO
SHEET	54 of 77
DRAWING NUMBER	C-50 / C-52
REGISTER NO.	
FILE NO.	PWB0A615.01

TOWNSHIP OF WOODBRIDGE — **COUNTY OF MIDDLESEX**



CONSTRUCT (TANGLEWOOD LANE)

700	CY	EXCAVATION, UNCLASSIFIED, 5" DEEP
9734	LF	POLYMERIZED JOINT ADHESIVE
303	LF	PREPARE & SEAL EXISTING JOINTS & CRACKS IN ASPHALT PAVEMENT
593	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
889	TON	HOT MIX ASPHALT 19M64 BASE COURSE
8	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
3	UN	RESET EXISTING CASTING
3	UN	CURB PIECE, TYPE "N-ECO"
3	UN	BICYCLE SAFE GRATE
80	LF	9"X20" CONCRETE VERTICAL CURB
100	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
20	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
6	UN	RESET WATER VALVE BOX

SPECIAL PROVISIONS

THE CONTRACTOR IS SPECIFICALLY DIRECTED TO THE REQUIREMENTS CONTAINED IN THE SPECIAL PROVISIONS SECTION OF THE CONTRACT SPECIFICATIONS.

PROPOSED CURB AND/OR ROADWAY REPLACEMENT

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GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft.

INLET RESTORATION:

TYPE 1	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
TYPE 2	-	RESET EXISTING CASTING BICYCLE SAFE GRATE
TYPE 3	-	RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
TYPE 4	-	RESET EXISTING CASTING

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
- DENOTES RECONSTRUCT INLET
- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
- DENOTES APPROXIMATE LOCATION OF EXISTING HIGH POINT
- DENOTES APPROXIMATE LOCATION OF EXISTING LOW POINT
- DENOTES TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC WITH GLASS BEADS, FOR FIRE HYDRANT
- DENOTES PAINT CONCRETE CURBING, YELLOW
- DENOTES BENCH MARK LOCATION
- DENOTES EXISTING TREES OR STUMPS TO BE REMOVED
- DENOTES RESET BRICKWALK/ PAVERS
- DENOTES HOT MIX ASPHALT DRIVEWAY RESTORATION
- DENOTES CONCRETE DRIVEWAY RESTORATION
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE EXCAVATION) AND PAVING WITH 19M64 BASE COURSE
- DENOTES REMOVE AND REPLACE CURB (INCLUDING 2' WIDE TEMPORARY TRENCH REPAIR)
- DENOTES PROPOSED CONCRETE SIDEWALK AND DRIVEWAY APRON
- DENOTES AREA TO BE EXCAVATED AND RECEIVE 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE AND 3" HOT MIX ASPHALT 19M64 BASE COURSE
- DENOTES AREA TO BE MILLED AND RECEIVE MIN. 2" HMA 9.5M64 SURFACE COURSE
- DENOTES AREA TO BE MILLED, EXISTING CRACK TO BE CLEANED AND SEALED, AND GEO COMPOSITE MATERIAL TO BE INSTALLED
- DENOTES AREA TO BE EXCAVATED UP TO 9" AND RECEIVE HMA 19M64 BASE COURSE
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- DENOTES ROADWAY TRENCH REPAIR AREA 2" HOT MIX ASPHALT 9.5M64 SURFACE COURSE 7" HOT MIX ASPHALT 19M64 BASE COURSE 6" DENSE GRADED AGGREGATE BASE COURSE

No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – TANGLEWOOD LANE

WARD 5

CVE ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
(732) 727 8000 (732) 462 7400
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

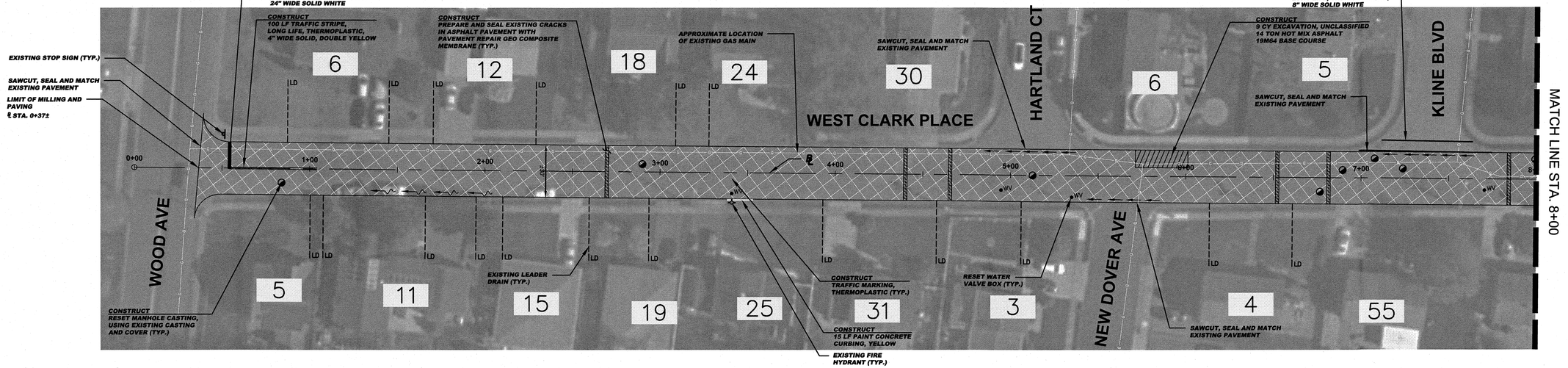
SCALE	As Shown
DATE	May 2024
DRAWN BY	ER
DESIGNED BY	ER/PD
CHECKED BY	
SHEET	55 of 77

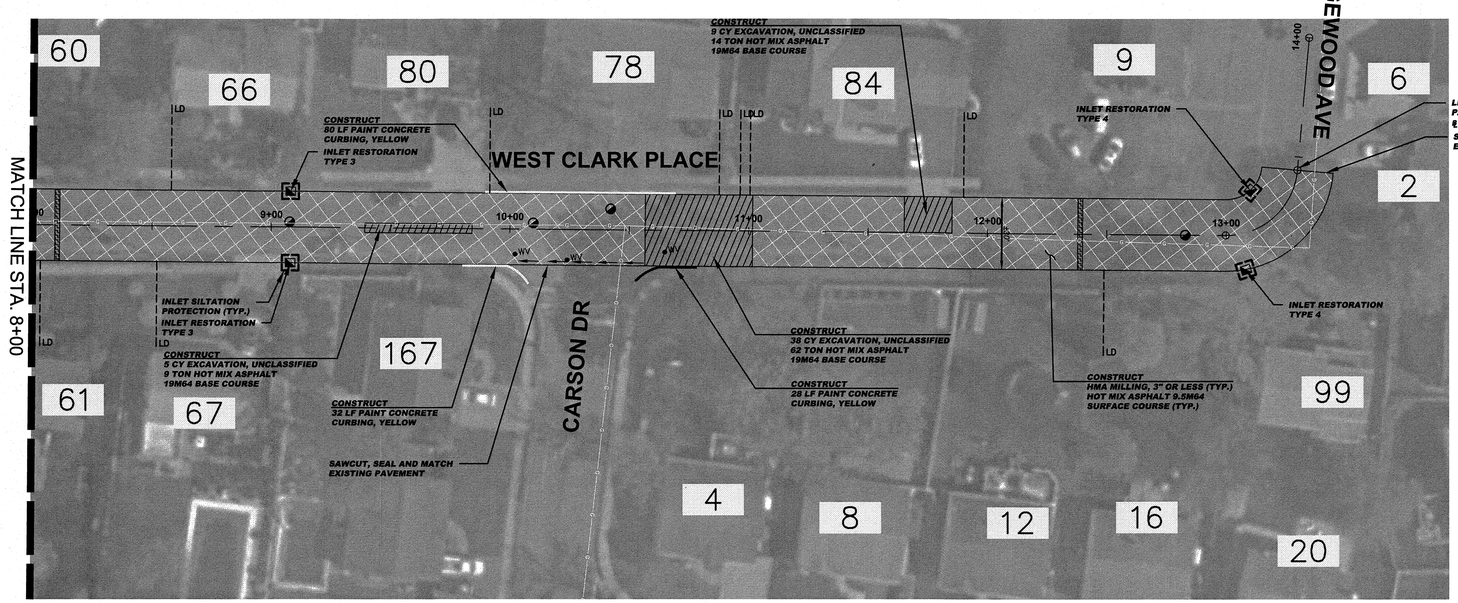
REGISTER NO. FILE NO. PWB0A615.01

DRAWING NUMBER C-51 C-52

TOWNSHIP OF WOODBRIDGE

COUNTY OF MIDDLESEX





CONSTRUCT (WEST CLARK PLACE)

61	CY	EXCAVATION, UNCLASSIFIED
4370	SY	HMA MILLING, 3" OR LESS
5219	LF	POLYMERIZED JOINT ADHESIVE
365	LF	PREPARE AND SEAL EXISTING JOINTS AND CRACKS IN ASPHALT PAVEMENT
240	LF	PREPARE AND SEAL EXISTING TRANSVERSE CRACKS IN ASPHALT PAVEMENT WITH PAVEMENT REPAIR GEO COMPOSITE MEMBRANE
645	TON	HOT MIX ASPHALT 9.5M64 SURFACE COURSE
99	TON	HOT MIX ASPHALT 19M64 BASE COURSE
12	UN	RESET MANHOLE CASTING, USING EXISTING CASTING AND COVER
4	UN	RESET EXISTING CASTING
2	UN	CURB PIECE, TYPE "N-ECO"
2	UN	BICYCLE SAFE GRATE
155	LF	PAINT CONCRETE CURBING
100	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 4" WIDE
128	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 8" WIDE
16	LF	TRAFFIC STRIPES, LONG LIFE, "THERMOPLASTIC", 24" WIDE
6	SF	TRAFFIC MARKINGS, THERMOPLASTIC
7	UN	RESET WATER VALVE BOX

SPECIAL PROVISIONS

THE CONTRACTOR IS SPECIFICALLY DIRECTED TO THE REQUIREMENTS CONTAINED IN THE SPECIAL PROVISIONS SECTION OF THE CONTRACT SPECIFICATIONS.

PROPOSED CURB AND/OR ROADWAY REPLACEMENT

THE CONTRACTOR IS ADVISED THAT THEIR LICENSED LAND SURVEYOR SHALL PROVIDE THE CONSTRUCTION STAKEOUT FOR THE PROJECT AND THAT IS THE INTENT OF THE CONTRACT DOCUMENTS TO INSTALL THE NEW CURB, EDGE OF PAVEMENT, AND ROADWAY AT ITS PRESENT HORIZONTAL LOCATION AND VERTICAL LOCATION EXCEPT WHERE PROPOSED GRADES HAVE BEEN INDICATED ON THE PLAN. ACCORDINGLY, THE FULL RESPONSIBILITY FOR KEEPING AND MAINTAINING THE EXISTING ALIGNMENT AND GRADE PRIOR TO REMOVAL OF THE EXISTING CURB AND MILLING AND/OR EXCAVATION OF THE PAVEMENT SHALL REST UPON THE CONTRACTOR IN ACCORDANCE WITH DIVISION 1 GENERAL REQUIREMENTS SECTION 1-4.4 OF THE PROJECT SPECIFICATIONS.

INLET RESTORATION:

- TYPE 1 - RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO
- TYPE 2 - RESET EXISTING CASTING BICYCLE SAFE GRATE
- TYPE 3 - RESET EXISTING CASTING CURB PIECE, TYPE N-ECO OR P-ECO, BICYCLE SAFE GRATE
- TYPE 4 - RESET EXISTING CASTING

BASELINES

BASELINES ARE APPROXIMATE AND ARE FOR REFERENCE PURPOSES ONLY. BASELINES ARE NOT TO BE UTILIZED FOR LAYOUT.

PROPOSED LEGEND:

- DENOTES PROPOSED MANHOLE
- DENOTES RESET MANHOLE CASTING
- DENOTES RECONSTRUCT MANHOLE
- DENOTES PROPOSED INLET
- DENOTES RESET INLET CASTING
- DENOTES RECONSTRUCT INLET
- DENOTES PROPOSED DETECTABLE WARNING SURFACE
- DENOTES EXISTING VALLEY GUTTER
- DENOTES DIRECTION OF FLOW
- DENOTES APPROXIMATE LOCATION OF EXISTING HIGH POINT
- DENOTES APPROXIMATE LOCATION OF EXISTING LOW POINT
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No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION PLAN – WEST CLARK PLACE

REGISTER NO.

FILE NO. PWB0A615.01

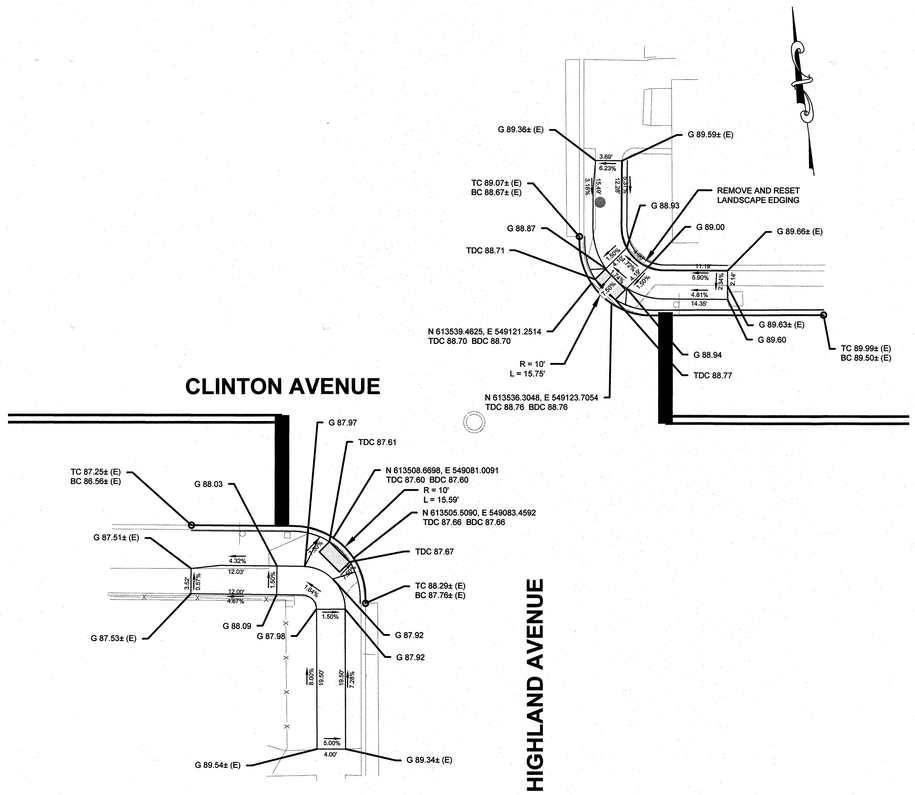
CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28339000
(732) 727 8000 (732) 462 7400
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

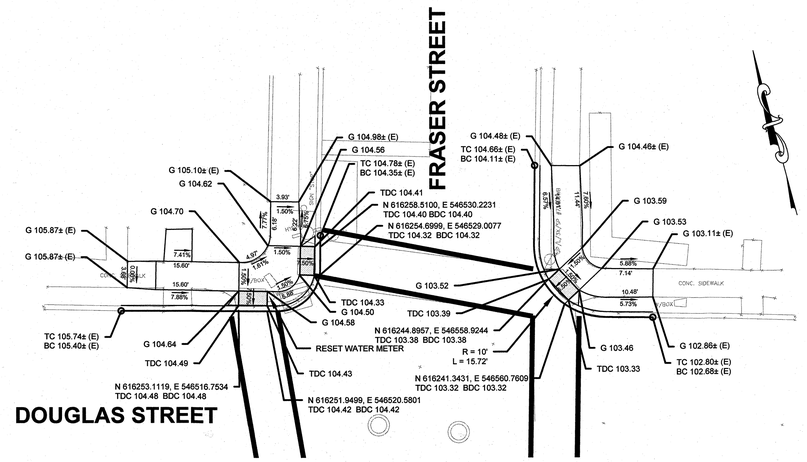
SCALE	As Shown
DATE	May 2024
DRAWN BY	PD
DESIGNED BY	PD
CHECKED BY	GO
SHEET	58 of 77

DRAWING NUMBER C-52

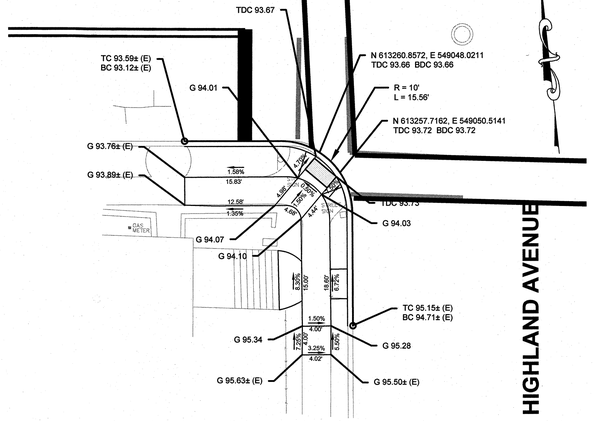
C-52



CLINTON AVENUE AND HIGHLAND AVENUE



FRASER STREET AND DOUGLAS STREET



GREENBROOK AVENUE AND HIGHLAND AVENUE

PROPOSED LEGEND:

- DENOTES PROPOSED CURB
- DENOTES 4'X4' LANDING AREA @ 2.0% MAX SLOPE
- DENOTES DETECTABLE WARNING SURFACE
- DENOTES PROPOSED CURB RAMP
- 1.5% — DENOTES PROPOSED SLOPE ALONG SIDEWALK
- G 40.62 — DENOTES PROPOSED GRADE ALONG SIDEWALK

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CURB RAMP DETAILS - WARD 2

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
(732) 727 8000 (732) 462 7400
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

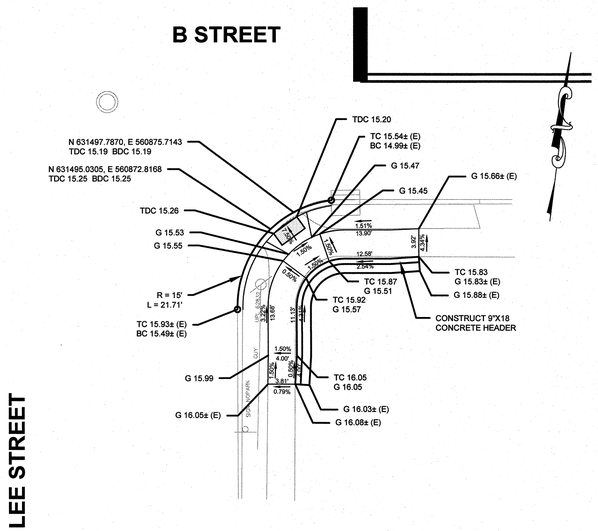
GARY MOLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
DRAWN BY	PD
DESIGNED BY	PD
CHECKED BY	
SHEET	57 of 77

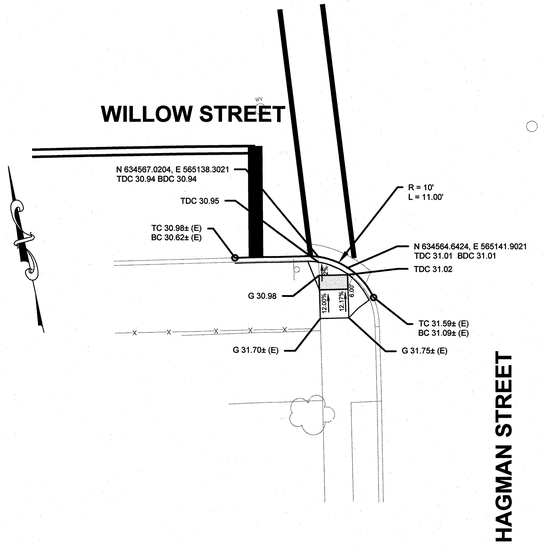
REGISTER NO.

FILE NO. PWB0A615.01

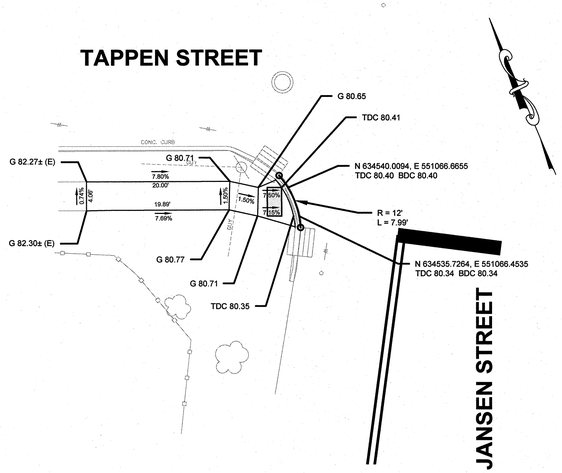
DRAWING NUMBER CR-1 CR-4



LEE STREET AND B STREET



WILLOW STREET AND HAGMAN STREET



TAPPEN STREET AND JANSEN AVENUE

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

PROPOSED LEGEND:

- DENOTES PROPOSED CURB
- DENOTES 4'X4' LANDING AREA @ 2.0% MAX SLOPE
- DENOTES DETECTABLE WARNING SURFACE
- DENOTES PROPOSED CURB RAMP
- 1.5% — DENOTES PROPOSED SLOPE ALONG SIDEWALK
- G 40.82 — DENOTES PROPOSED GRADE ALONG SIDEWALK

No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CURB RAMP DETAILS - WARD 3 (1 OF 2)

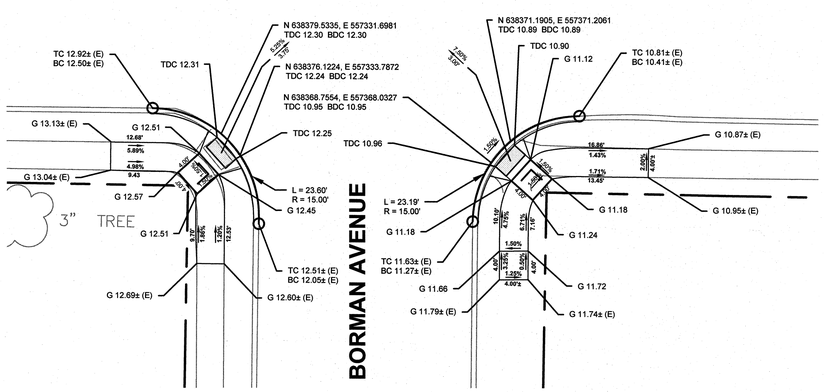
REGISTER NO.

FILE NO. PWB0A615.01

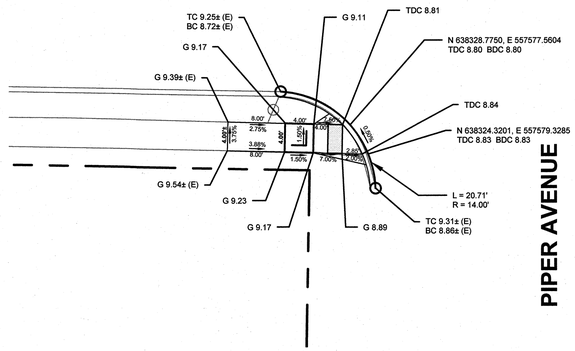
CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
(732) 727 8000 (732) 462 7400
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

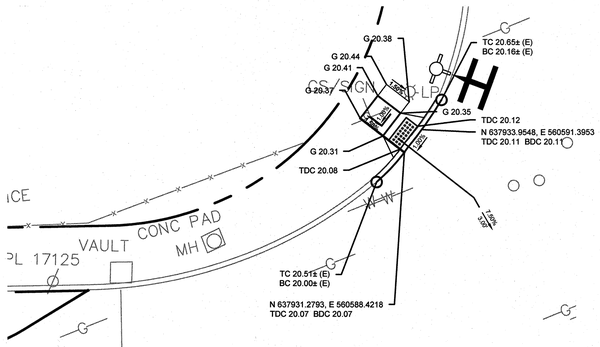
SCALE	DATE	DRAWING NUMBER
As Shown	May 2024	CR-2
DRAWN BY: PD	DESIGNED BY: PD	CR-4
CHECKED BY: GO	SHEET: 58 of 77	



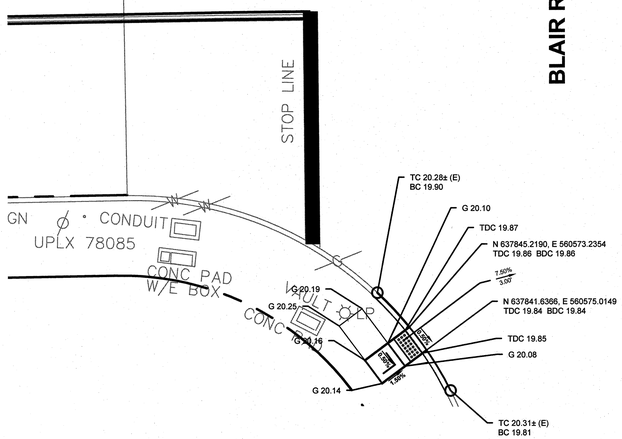
OMAR AVENUE AND BOORMAN AVENUE



OMAR AVENUE AND PIPER AVENUE



OMAR AVENUE



OMAR AVENUE AND BLAIR ROAD

PROPOSED LEGEND:

- DENOTES PROPOSED CURB
- L — DENOTES 4'X4' LANDING AREA @ 2.0% MAX SLOPE
- DENOTES DETECTABLE WARNING SURFACE
- DENOTES PROPOSED CURB RAMP
- 1.50% — DENOTES PROPOSED SLOPE ALONG SIDEWALK
- G 40.62 — DENOTES PROPOSED GRADE ALONG SIDEWALK

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CURB RAMP DETAILS - WARD 3 (2 OF 2)

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 (732) 727 8000
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194 (732) 462 7400

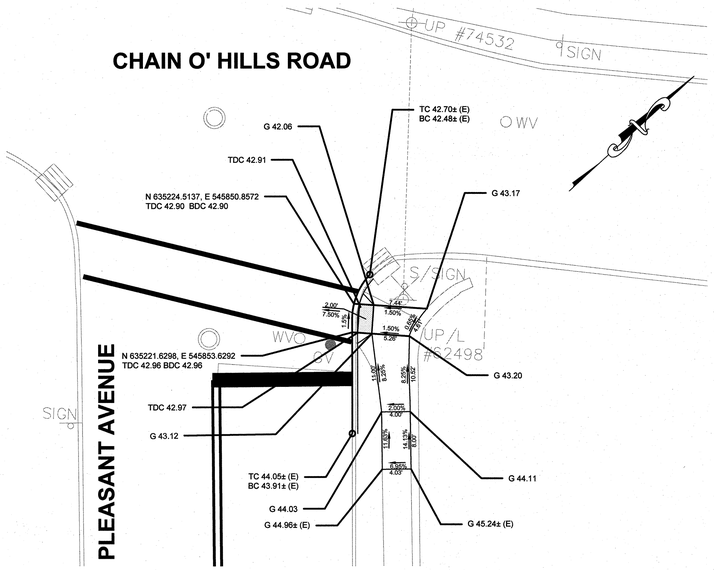
REGISTER NO.

FILE NO. PWB0A615.01

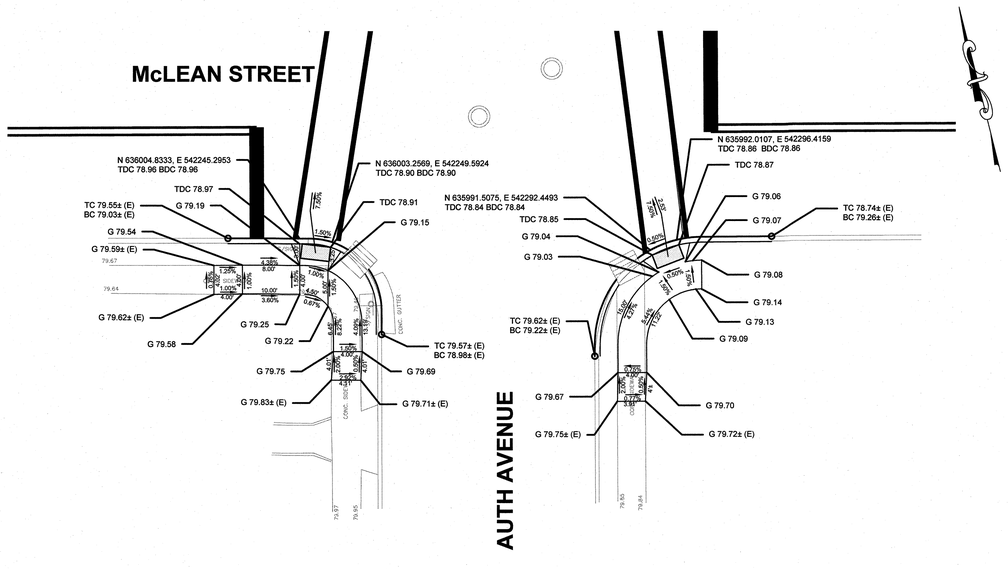
GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	DATE
As Shown	May 2024
DRAWN BY: AW	DESIGNED BY: AW/PD
CHECKED BY: GO	SHEET: 59 of 77

DRAWING NUMBER: CR-3 / CR-4



PLEASANT AVENUE AND CHAIN O'HILLS ROAD



AUTH AVENUE AND McLEAN STREET

PROPOSED LEGEND:

- DENOTES PROPOSED CURB
- DENOTES 4'X4' LANDING AREA @ 2.0% MAX SLOPE
- DENOTES DETECTABLE WARNING SURFACE
- DENOTES PROPOSED CURB RAMP
- 1.5% — DENOTES PROPOSED SLOPE ALONG SIDEWALK
- G 40.62 — DENOTES PROPOSED GRADE ALONG SIDEWALK

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)

1 inch = 10 ft.

No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CURB RAMP DETAILS - WARD 4

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
(732) 727 8000 — 3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162
(732) 462 7400 — 2460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

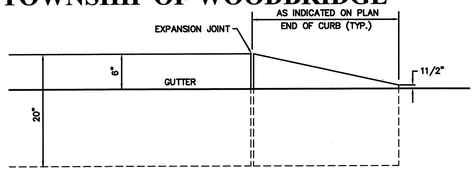
GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	DATE
As Shown	May 2024
DRAWN BY: OT	DESIGNED BY: OT
CHECKED BY: GO	SHEET: 60 of 77

REGISTER NO.
FILE NO. PWB0A615.01
DRAWING NUMBER CR-4
CR-4

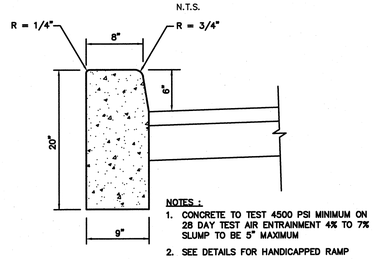
TOWNSHIP OF WOODBRIDGE

COUNTY OF MIDDLESEX



9"x 20" KNOCKOUT CURB

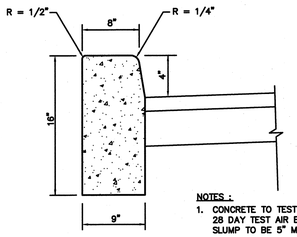
N.T.S.



NOTES :
1. CONCRETE TO TEST 4500 PSI MINIMUM ON 28 DAY TEST AIR ENTRAINMENT 4% TO 7% SLUMP TO BE 5" MAXIMUM
2. SEE DETAILS FOR HANDICAPPED RAMP

TYPICAL 9"x 20" CURB DETAIL

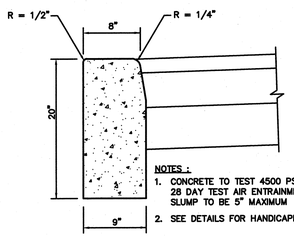
N.T.S.



NOTES :
1. CONCRETE TO TEST 4500 PSI MINIMUM ON 28 DAY TEST AIR ENTRAINMENT 4% TO 7% SLUMP TO BE 5" MAXIMUM
2. SEE DETAILS FOR HANDICAPPED RAMP

TYPICAL 9"x 16" CURB DETAIL

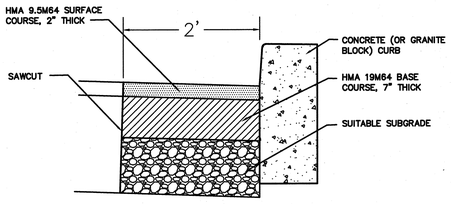
N.T.S.



NOTES :
1. CONCRETE TO TEST 4500 PSI MINIMUM ON 28 DAY TEST AIR ENTRAINMENT 4% TO 7% SLUMP TO BE 5" MAXIMUM
2. SEE DETAILS FOR HANDICAPPED RAMP

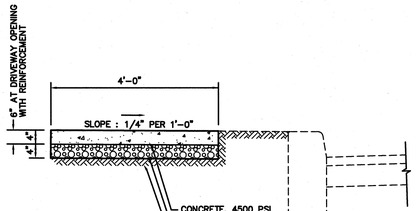
FLUSH 9"x 20" CURB DETAIL

N.T.S.



TEMPORARY TRENCH REPAIR DETAIL FOR CURB REPLACEMENT

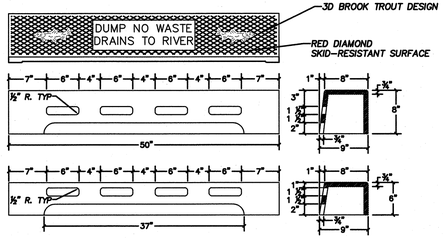
N.T.S.



NOTES :
SEE DETAILS FOR HANDICAPPED RAMP

TYPICAL SIDEWALK DETAIL

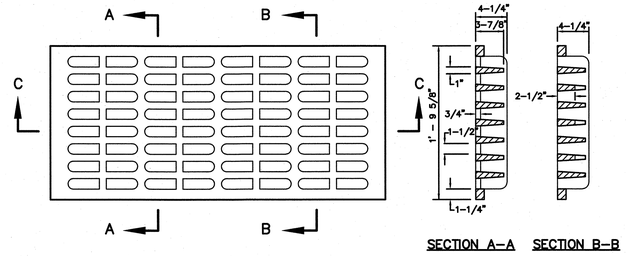
N.T.S.



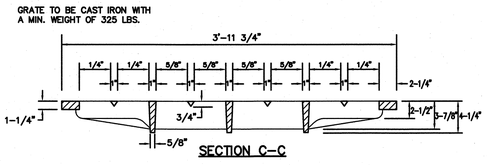
NOTE:
CAMPBELL CASTING PATTERN NO. 2618, TYPE N-ECO, BICYCLE SAFE GRATE OR APPROVED EQUAL.

CURB PIECE TYPE 'N-ECO'

N.T.S.



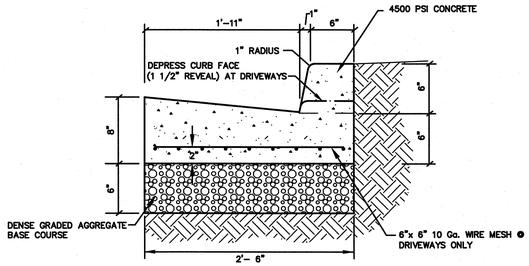
SECTION A-A SECTION B-B



SECTION C-C

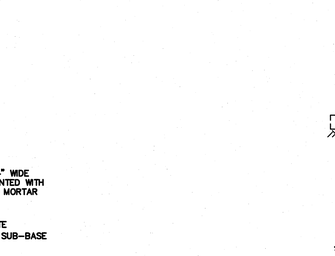
BICYCLE SAFE GRATE

N.T.S.



CONCRETE CURB & GUTTER

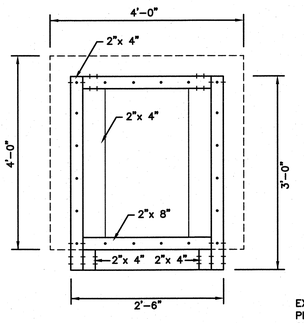
N.T.S.

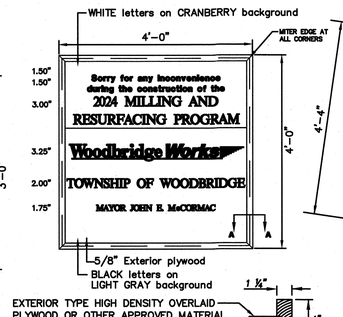


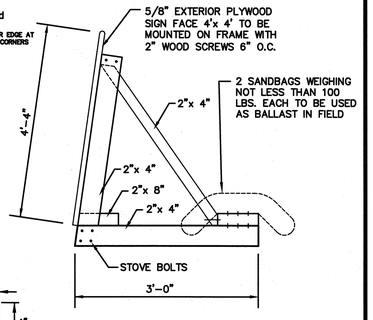
NOTE :
JOINTS TO BE 3/4" WIDE MAXIMUM AND POINTED WITH 1:2 CEMENT SAND MORTAR

GRANITE BLOCK CURB

N.T.S.

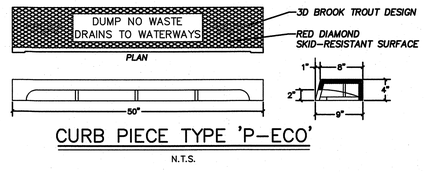






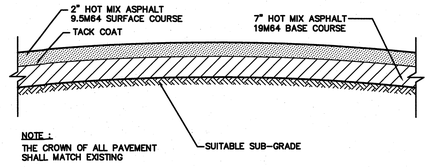
PROJECT SIGN DETAIL

N.T.S.



CURB PIECE TYPE 'P-ECO'

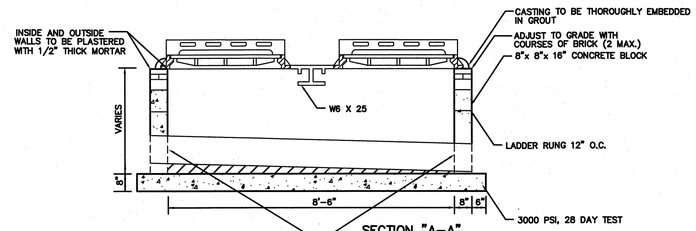
N.T.S.



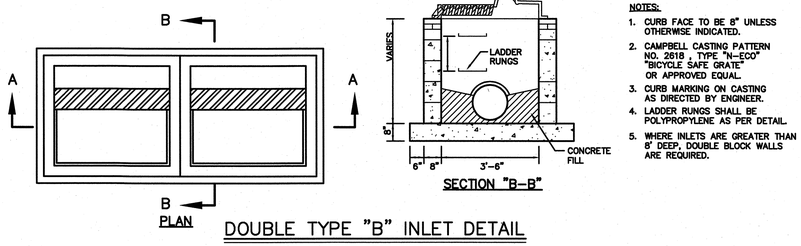
NOTE :
THE CROWN OF ALL PAVEMENT SHALL MATCH EXISTING

TYPICAL PAVEMENT DETAIL

N.T.S.



SECTION "A-A"

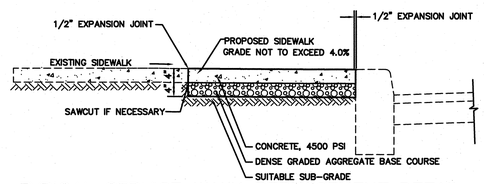


SECTION "B-B"

NOTES:
1. CURB FACE TO BE 8" UNLESS OTHERWISE INDICATED.
2. CAMPBELL CASTING PATTERN NO. 2618 , TYPE "N-ECO" "BICYCLE SAFE GRATE" OR APPROVED EQUAL.
3. CURB MARKING ON CASTING AS DIRECTED BY ENGINEER.
4. LADDER RUNGS SHALL BE POLYPROPYLENE AS PER DETAIL.
5. WHERE INLETS ARE GREATER THAN 8' DEEP, DOUBLE BLOCK WALLS ARE REQUIRED.

DOUBLE TYPE "B" INLET DETAIL

N.T.S.



TYPICAL SERVICE WALK REPLACEMENT DETAIL

N.T.S.

No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION DETAILS (1 OF 5)

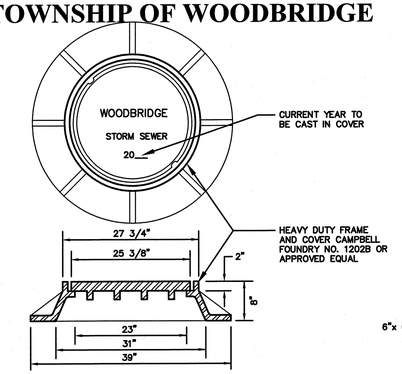
CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 (732) 727 8000
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194 (732) 462 7400

REGISTER NO. FILE NO. PWB0A615.01

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	DATE	DRAWING NUMBER
As Shown	May 2024	CD-1
DRAWN BY: PD	DESIGNED BY: PD	CD-5
CHECKED BY: GO	SHEET: 61 of 77	

TOWNSHIP OF WOODBRIDGE



TYPICAL STORM SEWER MANHOLE FRAME & COVER

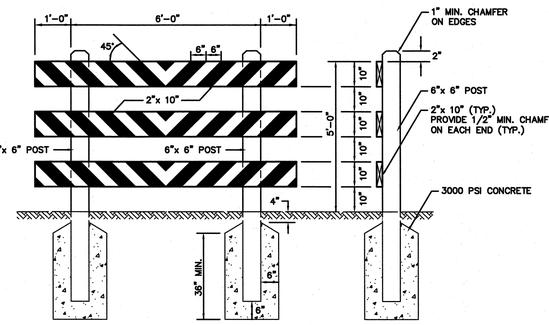
N.T.S.

IF WATERTIGHT MANHOLE FRAMES & COVERS ARE REQUIRED THEY SHALL BE AS MFG. BY CAMPBELL FOUNDRY CO. PATTERN NO. 1503 OR APPROVED EQUAL.

NOTE :

THE MANHOLE COVER AND FRAME SHALL BE OF THE HEAVY HIGHWAY TYPE, WITH THE CIRCULAR FLARED TYPE FRAME AND ROUND FLANGE.

CAMPBELL FOUNDRY CO. PATTERN NO. 1202B OR ITS EQUIVALENT.

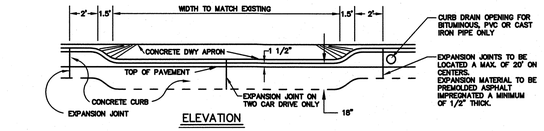


PERMANENT BARRICADE TYPE III MODIFIED FOR DEAD END ROADS

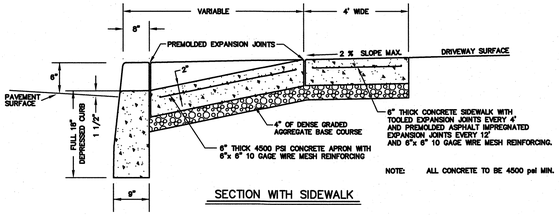
N.T.S.

NOTES :

1. ALL MEMBERS TO BE SOUTHERN YELLOW PINE PRESSURE TREATED WITH "ACQ" OR "COPPER AZOLE" OR APPROVED EQUAL ARSENIC FREE MATERIALS AND PROCEDURES APPROVED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA). ALL RAILS TO BE MOUNTED AS DIRECTED BY THE ENGINEER. CONNECTIONS TO BE MADE WITH 3/4" LAG BOLTS IN COUNTERSUNK HOLES.
2. FACE OF RAILS SHALL BE COVERED WITH REFLECTORIZED SHEETING, TYPE II, MEETING REQUIREMENTS OF THE NJDOT AND MUTCD. OTHER PARTS SHALL BE PAINTED WHITE, 3 COATS. MARKINGS FOR RAILS SHALL BE ALTERNATE WHITE AND RED STRIPES SLOPING DOWNWARD AT AN ANGLE OF 45° IN THE DIRECTION WHICH TRAFFIC MUST TURN.
3. THE RED AND WHITE STRIPES SHALL BE REFLECTORIZED SO AS TO BE VISIBLE UNDER NORMAL ATMOSPHERIC CONDITIONS FROM A MINIMUM DISTANCE OF 1000 FT. WHEN ILLUMINATED BY THE LOW BEAMS OF STANDARD AUTOMOBILE HEADLIGHTS.

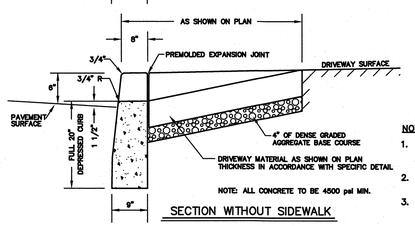


ELEVATION



NOTE: ALL CONCRETE TO BE 4500 psi MIN.

SECTION WITH SIDEWALK



NOTE: ALL CONCRETE TO BE 4500 psi MIN.

SECTION WITHOUT SIDEWALK

RESIDENTIAL DRIVEWAY ENTRANCE

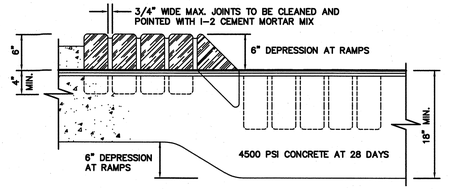
NOTES :

1. DRAINS TO BE RECONSTRUCTED ONLY IN AREAS OF CURB REMOVAL AND REPLACEMENT AS INDICATED ON PLANS
2. PROVIDE ADAPTER IF EXISTING DRAIN IS DIFFERENT THAN 4" DIAMETER.
3. IF SIDEWALK IS PROPOSED AND THERE IS NO EXISTING DRAIN, PIPE SHALL BE INSTALLED TO BACK EDGE OF SIDEWALK AND CAPPED.

DEPRESSED CURB, DRIVEWAY APRON & SIDEWALK

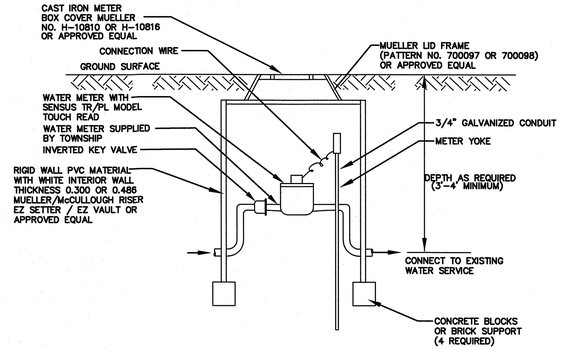
N.T.S.

COUNTY OF MIDDLESEX



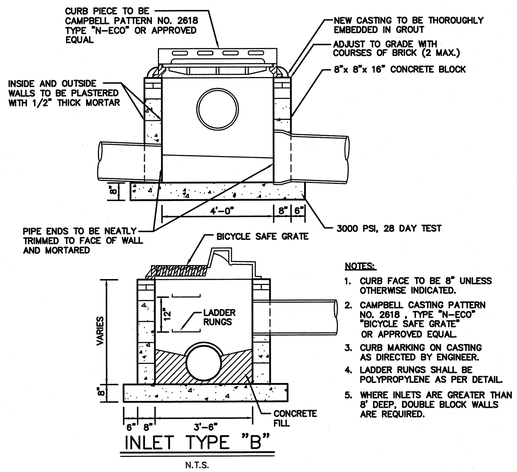
GRANITE BLOCK CURB

N.T.S.



WATER METER BOX

N.T.S.

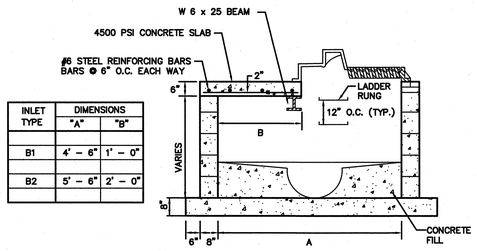


NOTES:

1. CURB FACE TO BE 8" UNLESS OTHERWISE INDICATED.
2. CAMPBELL CASTING PATTERN NO. 2618 , TYPE "N-ECO" "BICYCLE SAFE GRATE" OR APPROVED EQUAL.
3. CURB MARKING ON CASTING AS DIRECTED BY ENGINEER.
4. LADDER RUNGS SHALL BE POLYPROPYLENE AS PER DETAIL.
5. WHERE INLETS ARE GREATER THAN 8' DEEP, DOUBLE BLOCK WALLS ARE REQUIRED.

INLET TYPE "B"

N.T.S.



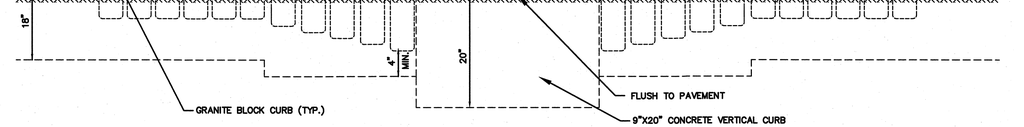
INLET TYPE	DIMENSIONS "A"	"B"
B1	4' – 6"	1' – 0"
B2	5' – 6"	2' – 0"

NOTE :

1. INLETS TYPE B1 OR TYPE B2 SHALL BE OF SAME CONSTRUCTION AND DIMENSIONS AS INLET, TYPE B EXCEPT OTHERWISE INDICATED BELOW
2. CURB FACE TO BE 8" UNLESS OTHERWISE NOTED.

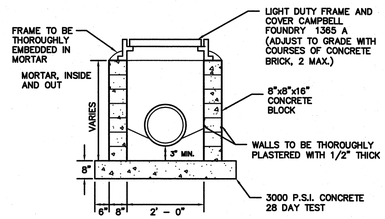
INLET – TYPE "B1" & "B2"

N.T.S.



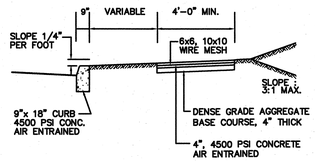
GRANITE BLOCK AND CONCRETE CURB AT RAMP

N.T.S.



LAWN INLET DETAIL

N.T.S.

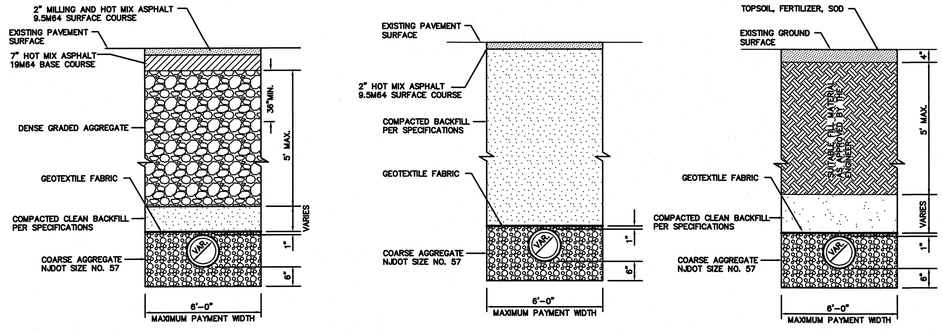


NOTE:

1. HANDICAP RAMPS SHALL BE REINFORCED WITH WIRE MESH. REFER TO DETAILS FOR HANDICAP RAMP CONSTRUCTION.
2. TRANSVERSE EXPANSION JOINTS 1/2" WIDE SHALL BE PROVIDED AT INTERVALS OF NOT MORE THAN 20' AND FILLED WITH PREFORMED BITUMINOUS CELLULAR TYPE JOINT FILLER. LONGITUDINAL JOINTS, 1/2" WIDE, SHALL BE PROVIDED BETWEEN CURBS AND ABUTTING SIDEWALKS, AND SHALL BE FILLED WITH PREFORMED BITUMINOUS TYPE JOINT FILLER. THE TOP OF ALL JOINT FILLER SHALL BE 1/2" BELOW THE TOP OF THE SIDEWALK AND FILLED WITH JOINT SEALER (SIKAFLEX 1A, OR APPROVED EQUAL). NO SEPARATE PAYMENT WILL BE MADE FOR JOINT CAP, REMOVABLE JOINT STRIP, JOINT SEALER AND WELDED STEEL WIRE FABRIC PROVIDED IN CONCRETE SIDEWALKS. NO SEPARATE PAYMENT WILL BE MADE FOR DENSE GRADED AGGREGATE BASE COURSE.

SIDEWALK DETAIL REINFORCED COUNTY CONCRETE

N.T.S.



ROADWAY TRENCH REPAIR

N.T.S.

TEMPORARY TRENCH REPAIR

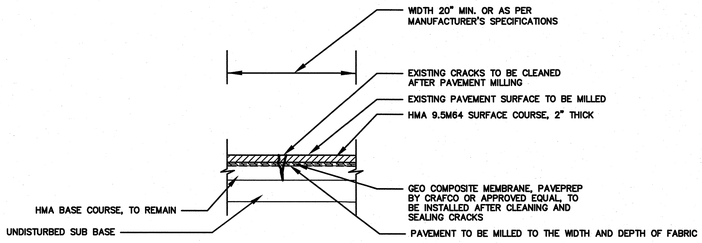
N.T.S.

UNPAVED TRENCH REPAIR

N.T.S.

TYPICAL BEDDING AND TRENCH DETAILS FOR SANITARY SEWER MAINS AND LATERALS

N.T.S.



ROADWAY CRACK REPAIR

N.T.S.

No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

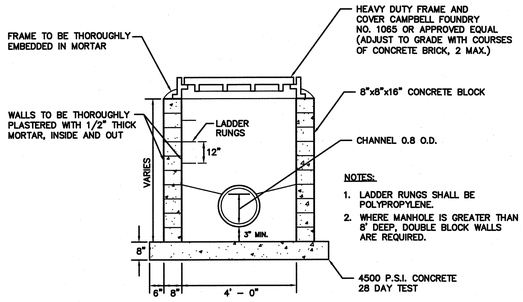
CONSTRUCTION DETAILS (2 OF 5)

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
(732) 727 8000 (732) 462 7400
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	DATE	DRAWING NUMBER
As Shown	May 2024	CD-2
DRAWN BY: PD	DESIGNED BY: PD	CD-5
CHECKED BY:	SHEET: 62 of 77	

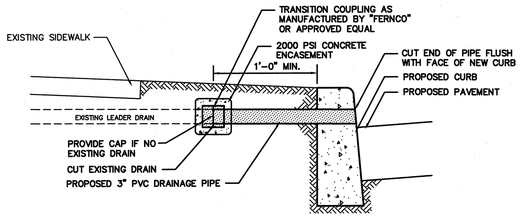
PROJECT/FILE NO. PWB0A615.01



SECTION A–A

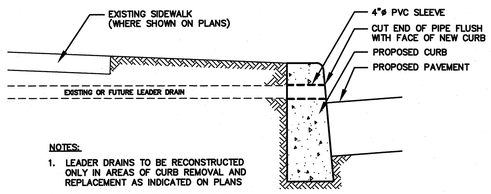
4' SQUARE MANHOLE DETAIL

N.T.S.



LEADER OR SUMP DRAIN RECONSTRUCTION DETAIL

N.T.S.



LEADER DRAIN SLEEVE DETAIL FOR AREAS WITH NO EXISTING OR PROPOSED STORM SEWER SYSTEM

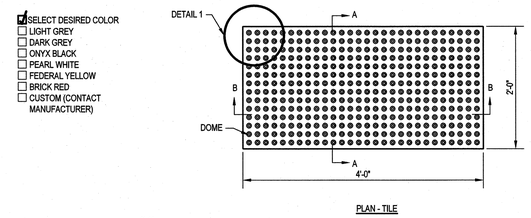
N.T.S.

Armor-Tile™

Tactile Systems

ENGINEERED PLASTICS, INC.
300 INTERNATIONAL DR., SUITE 100
WILLIAMSVILLE, NY, 14221
TOLL FREE: 1-800-682-2525
PHONE: (716) 626-3626
FAX: (800) 769-4463
www.armor-tile.com

- [x] SELECT DESIRED COLOR
- [ ] LIGHT GREY
- [ ] DARK GREY
- [ ] ONYX BLACK
- [ ] PEARL WHITE
- [ ] FEDERAL YELLOW
- [ ] BRICK RED
- [ ] CUSTOM (CONTACT MANUFACTURER)



NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.
3. FOR CUSTOM SIZING CONTACT MANUFACTURER.
4. CONTRACTORS NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info REFERENCE NUMBER 681-001D.

CAST IN PLACE SYSTEMS
24" x 48" (ADA-C-2448)

NOTE:
1. DETECTABLE WARNING SURFACE SHALL BE BY ARMOR–TILE OR APPROVED EQUAL.

681-001D REVISION DATE 05/25/2012

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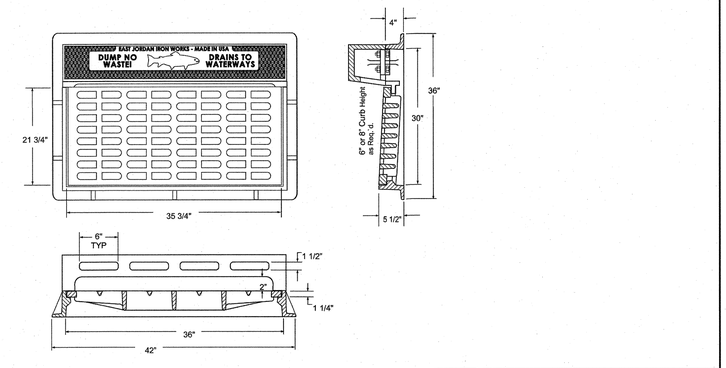
DETECTABLE WARNING SURFACE

N.T.S.

Heavy Duty Curb Inlet with Bicycle Grate

2633



NOTES:
1. MATERIAL: Gray Cast Iron ASTM A48-83, Class 35B;
2. AASHTO HS25 Highway Loading;
3. Supplied without surface coating;
4. Made in USA.

CAMPBELL FOUNDRY COMPANY
Harrison, N.J. 07029
Phone: 973-483-5480 FAX: 973-483-1843

SCALE:		DRAWN BY: A.JA
DATE: 06/04/03		REV.:

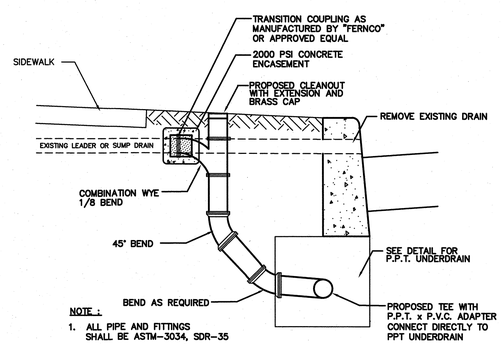
Heavy Duty Curb Inlet with Bicycle Grate

Pattern Number: 2633

3' BICYCLE SAFE GRATE AND CURB PIECE

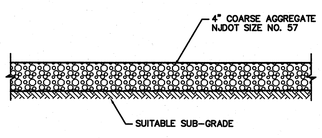
N.T.S.

CAMPBELL PATTERN NUMBER 2633 OR APPROVED EQAL



CONNECTION OF SUMP OR LEADER DRAINS TO PROPOSED P.P.T. UNDERDRAIN

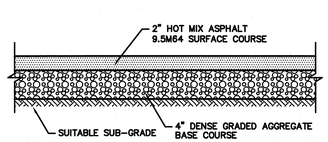
N.T.S.



= AGGREGATE DRIVEWAY =

DRIVEWAY REPLACEMENT DETAIL

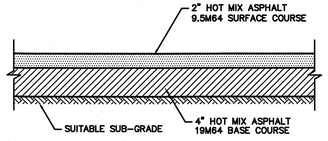
N.T.S.



= HMA DRIVEWAY =
(SINGLE & 2–FAMILY DRIVEWAYS)

DRIVEWAY REPLACEMENT DETAIL

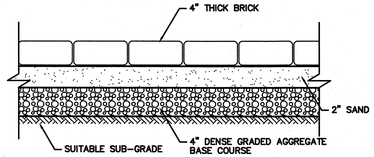
N.T.S.



= HMA DRIVEWAY =
(COMMERCIAL DRIVEWAY & PARKING LOT)

DRIVEWAY REPLACEMENT DETAIL

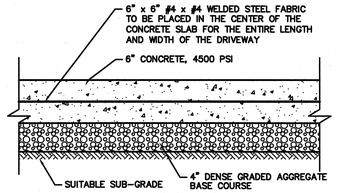
N.T.S.



=BRICK PAVER DRIVEWAY=

DRIVEWAY REPLACEMENT DETAIL

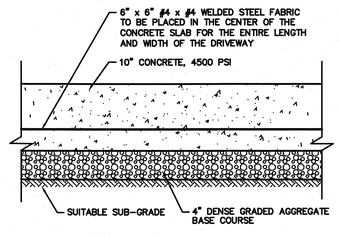
N.T.S.



= CONCRETE DRIVEWAY =

DRIVEWAY REPLACEMENT DETAIL

N.T.S.



= CONCRETE DRIVEWAY =
(COMMERCIAL DRIVEWAY & PARKING LOT)

DRIVEWAY REPLACEMENT DETAIL

N.T.S.

No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

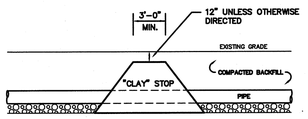
CONSTRUCTION DETAILS (3 OF 5)

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
(732) 727 8000 (732) 462 7400
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28039000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

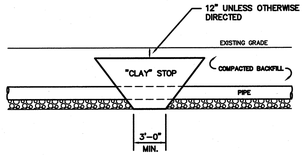
GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	DATE	DRAWING NUMBER
As Shown	May 2024	CD-3
DRAWN BY: PD	DESIGNED BY: PD	CD-5
CHECKED BY:	SHEET: 63 of 77	

MIDDLESEX NO. PWB0A615.01

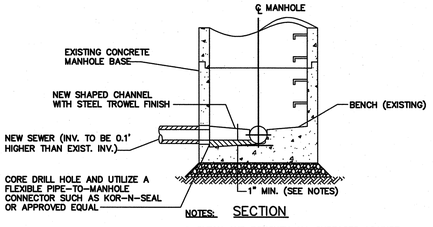


1. FURNISH & INSTALL COMPACTED CLAY MATERIAL FOR FULL WIDTH OF TRENCH AS APPROVED BY THE ENGINEER.
2. CLAY STOP SHAPE MAY BE INVERTED IF BACKFILL IS PLACED FIRST.



"IMPERVIOUS" TRENCH STOP

N.T.S.

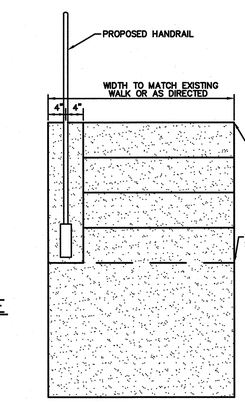


SECTION

NOTES:

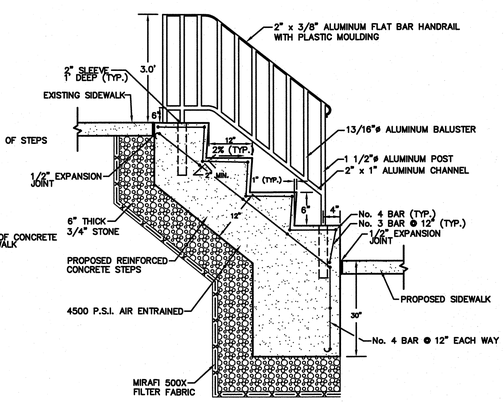
1. CLEAN AND ROUGHEN ALL SURFACES AGAINST WHICH NEW MORTAR IS TO BE PLACED.
2. WHERE REQUIRED, EXISTING CONCRETE SHALL BE REMOVED TO A LINE 1" BEYOND THE NEW CHANNEL LINE AND FINISHED OFF WITH NEW CEMENT MORTAR.

NEW CONNECTION TO EXISTING MANHOLE



FRONT VIEW

NOTE: SEE PROFILE FOR REINFORCED STEEL DETAIL

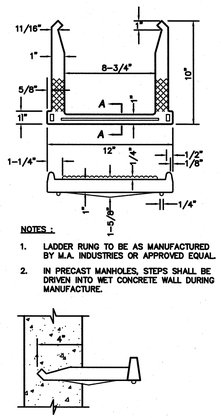


PROFILE

NUMBER OF STEPS AS INDICATED ON THE PLANS OR AS DIRECTED

REINFORCED CONCRETE STEP DETAIL

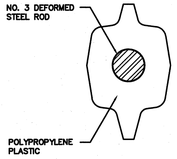
N.T.S.



NOTES :

1. LADDER RUNG TO BE AS MANUFACTURED BY M.A. INDUSTRIES OR APPROVED EQUAL.
2. IN PRECAST MANHOLES, STEPS SHALL BE DRIVEN INTO WET CONCRETE WALL DURING MANUFACTURE.

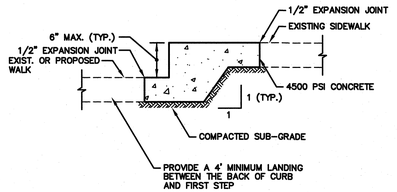
INSTALLATION



SECTION A – A

POLYPROPYLENE LADDER RUNG DETAIL

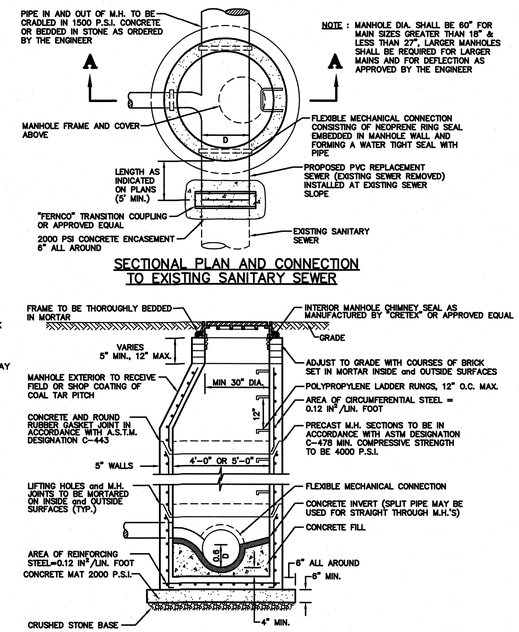
N.T.S.



CONCRETE STEP DETAIL

N.T.S.

FOR MORE THAN ONE STEP, REFER REINFORCED CONCRETE STEP DETAILS.



SECTIONAL PLAN AND CONNECTION TO EXISTING SANITARY SEWER

SECTION A–A

TYPICAL PRECAST CONCRETE SANITARY SEWER MANHOLE

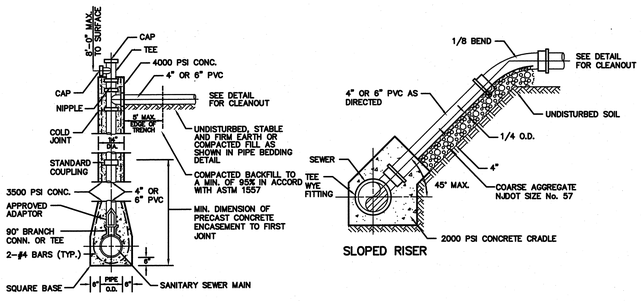
N.T.S.

PRECAST MANHOLE CONSTRUCTION NOTES

1. PRECAST MANHOLE SECTIONS TO BE IN ACCORDANCE WITH A.S.T.M. DESIGNATION C-478.
2. RUBBER GASKET SEAL TO BE INSTALLED AT JOINT SECTIONS OF STRUCTURE IN ACCORDANCE WITH A.S.T.M. DESIGNATION C-443, C-990 PER MANUFACTURER'S RECOMMENDATIONS. EACH JOINT SHALL BE EXTERNALLY MORTARED PRIOR TO BACKFILLING.
3. PIPE TO MANHOLE SEAL TO BE IN ACCORDANCE WITH A.S.T.M. DESIGNATION C-923 WITH 10° MAX. OMNI-DIRECTIONAL DEFLECTION AS MANUFACTURED BY A'LOK PRODUCTS, INC. OR APPROVED EQUAL.
4. INTERIOR OF STRUCTURE SHALL RECEIVE TWO COATS OF WHITE EPOXY COATING.

TYPICAL SANITARY SEWER MANHOLE FRAME & COVER

N.T.S.



VERTICAL RISER

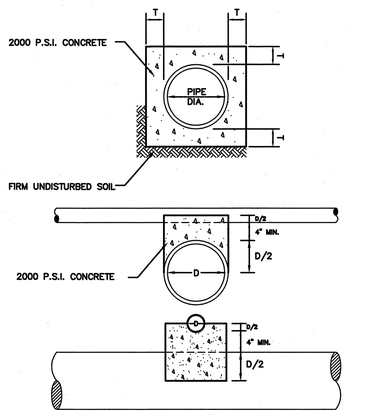
NOTE : TYPE OF CONNECTION TO BE AS DIRECTED BY THE ENGINEER.

SLOPED RISER

TYPICAL LATERAL CONNECTION WITH RISER

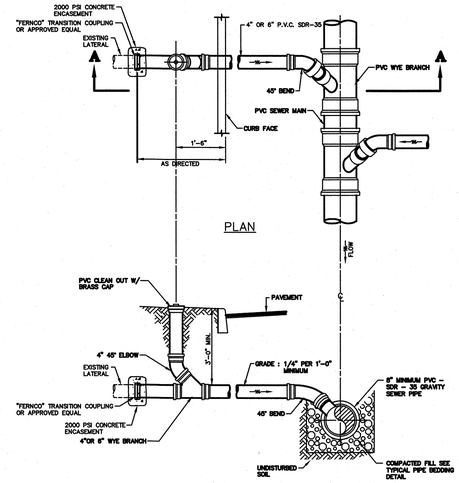
N.T.S.

DIMENSIONS													
DIA.	6"	8"	10"	12"	15"	18"	21"	24"	27"	30"	36"	42"	42"
T	5"	5.5"	5.5"	6"	6"	6"	6"	6"	6"	7"	8"	9"	10"	12"



CONCRETE ENCASEMENT & CRADLE

N.T.S.



SECTION A–A

PVC SANITARY SEWER LATERAL AND CLEANOUT

N.T.S.

No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION DETAILS (4 OF 5)

CVE ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
(732) 727 8000 (732) 462 7400
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28039000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

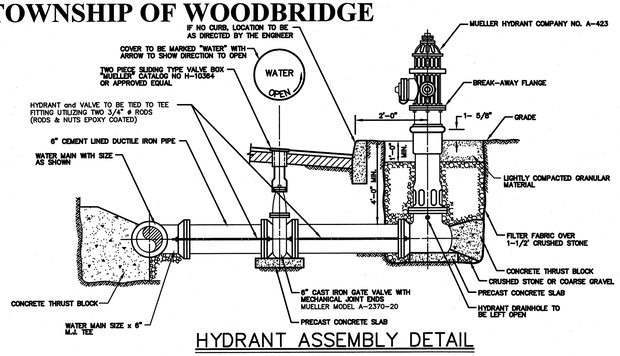
SCALE	DATE
As Shown	May 2024
DRAWN BY	DESIGNED BY
PD	PD
CHECKED BY	SHEET
	64 of 77

DRAWING NUMBER: CD-4, CD-5

RESOLUTION NO.

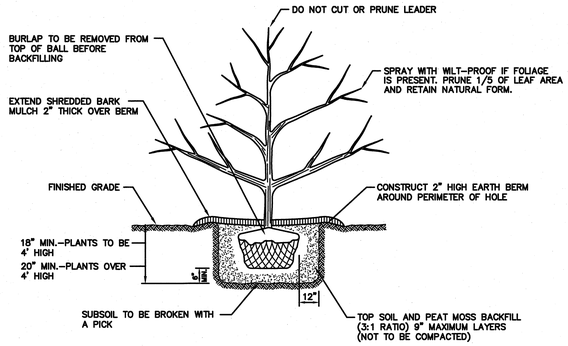
JOB NO. PWB0A615.01

TOWNSHIP OF WOODBRIDGE



HYDRANT ASSEMBLY DETAIL

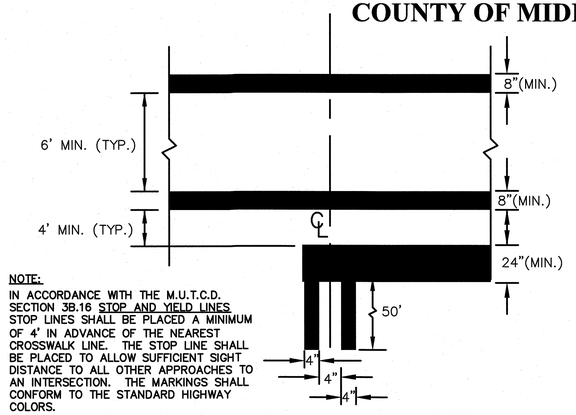
N.T.S.



TYPICAL SHRUB PLANTING DETAIL

N.T.S.

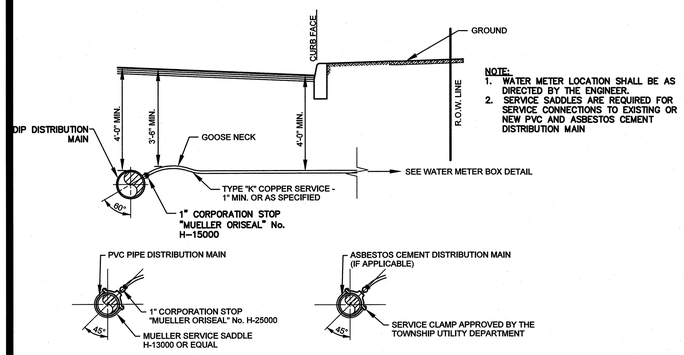
COUNTY OF MIDDLESEX



NOTE:
IN ACCORDANCE WITH THE M.U.T.C.D. SECTION 3B.16 STOP AND YIELD LINES, STOP LINES SHALL BE PLACED A MINIMUM OF 4' IN ADVANCE OF THE NEAREST CROSSWALK LINE. THE STOP LINE SHALL BE PLACED TO ALLOW SUFFICIENT SIGHT DISTANCE TO ALL OTHER APPROACHES TO AN INTERSECTION. THE MARKINGS SHALL CONFORM TO THE STANDARD HIGHWAY COLORS.

CROSSWALK STRIPING & STOP BAR DETAIL

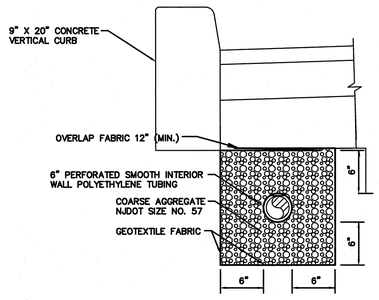
N.T.S.



NOTE:
1. WATER METER LOCATION SHALL BE AS DIRECTED BY THE ENGINEER.
2. SERVICE SADDLES ARE REQUIRED FOR SERVICE CONNECTIONS TO EXISTING OR NEW PVC AND ASBESTOS CEMENT DISTRIBUTION MAIN

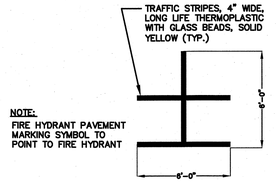
WATER SERVICE CONNECTION DETAIL

N.T.S.



PERFORATED POLYETHYLENE TUBING UNDERDRAIN

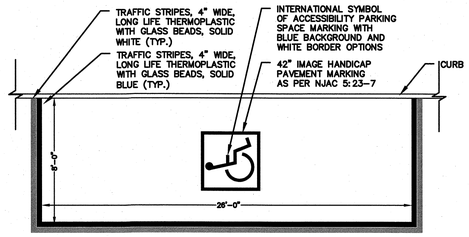
N.T.S.



NOTE:
FIRE HYDRANT PAVEMENT MARKING SYMBOL TO POINT TO FIRE HYDRANT

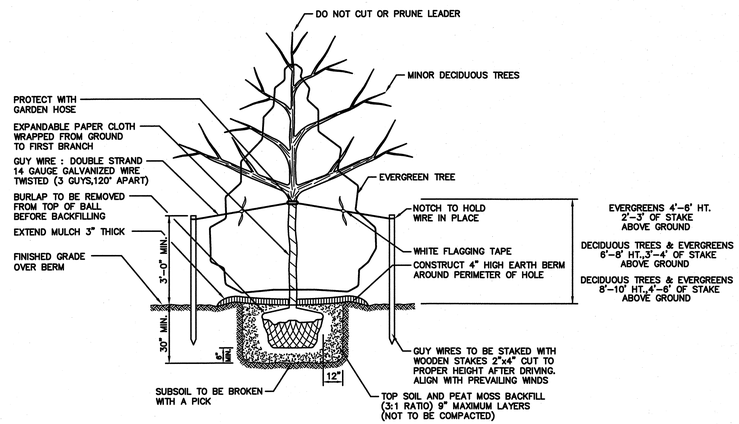
FIRE HYDRANT PAVEMENT MARKING DETAIL

N.T.S.



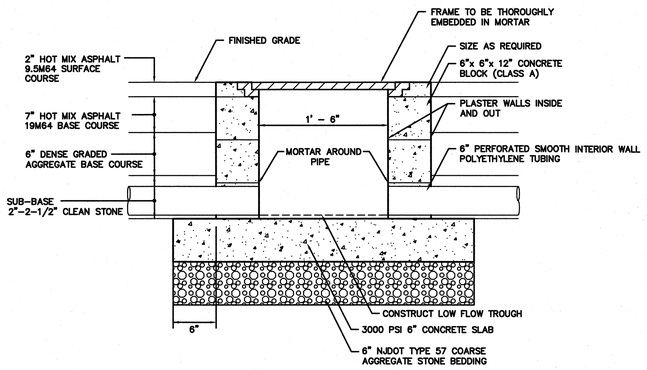
HANDICAPPED PARKING STALL DETAILS

N.T.S.



TYPICAL TREE PLANTING DETAIL

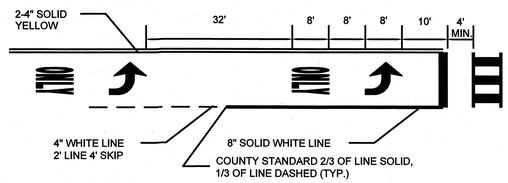
N.T.S.



NOTE :
1. FRAME AND COVER TO BE CAMPBELL FOUNDRY CO. PATTERN NUMBER 2801 OR EQUAL.
2. A PRECAST UNIT MAY BE INSTALLED AT THE OPTION OF THE CONTRACTOR, WALLS SHALL BE 6" THICK, PRICE PER UNIT SHALL REMAIN THE SAME.

UNDERDRAIN HANDHOLE DETAIL

N.T.S.



NOTE:
THIS DETAIL APPLIES TO ALL EXCLUSIVE RIGHT AND LEFT TURN LANES.

LEFT TURN SLOTS AND ARROW ONLY DETAIL

N.T.S.

No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION DETAILS (5 OF 5)

REGISTER NO. FILE NO. PWB0A615.01

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28399000
(732) 727 8000 (732) 462 7400
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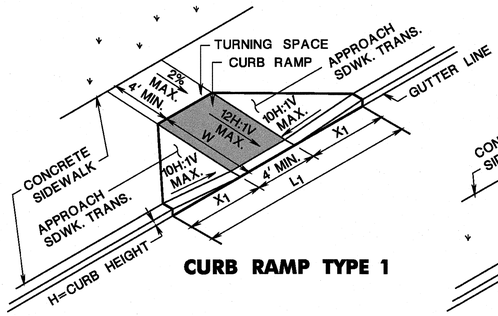
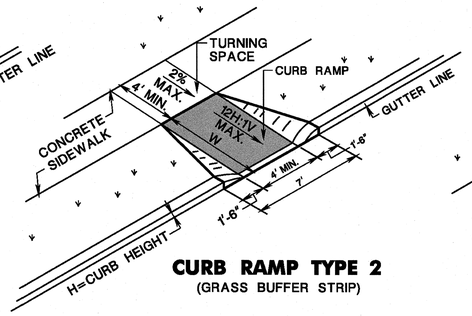
GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

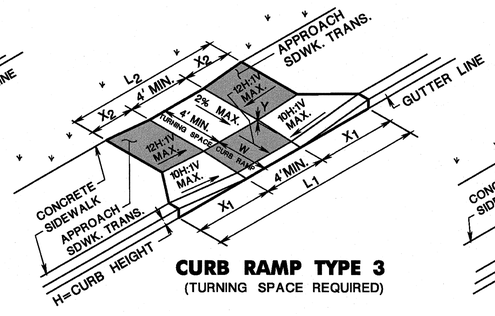
SCALE	DATE	DRAWING NUMBER
As Shown	May 2024	CD-5
DRAWN BY: PD	DESIGNED BY: PD	
CHECKED BY: GO	SHEET: 65 of 77	CD-5



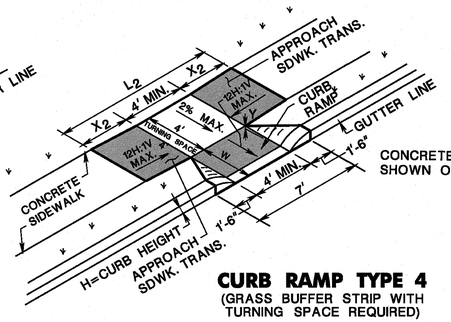
CURB RAMP TYPE 1



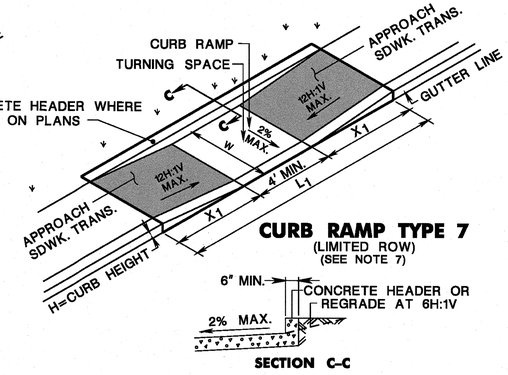
CURB RAMP TYPE 2
(GRASS BUFFER STRIP)



CURB RAMP TYPE 3
(TURNING SPACE REQUIRED)

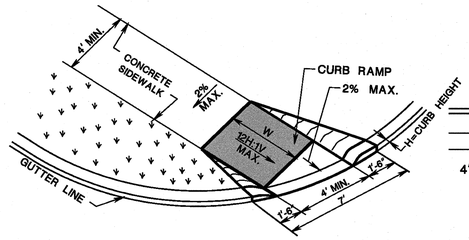


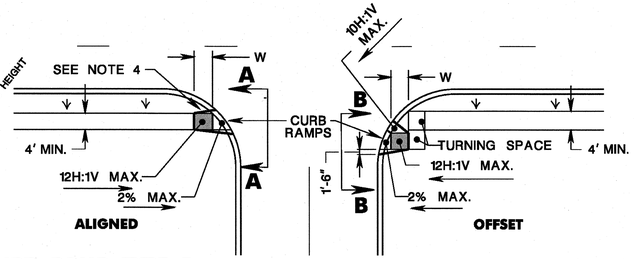
CURB RAMP TYPE 4
(GRASS BUFFER STRIP WITH TURNING SPACE REQUIRED)



CURB RAMP TYPE 7
(LIMITED ROW)
(SEE NOTE 7)

SECTION C-C





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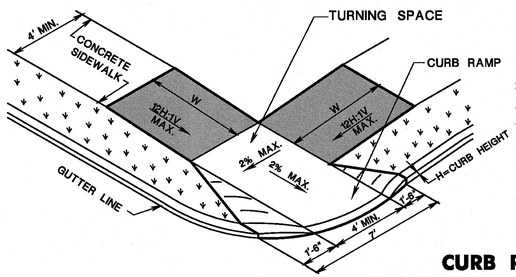

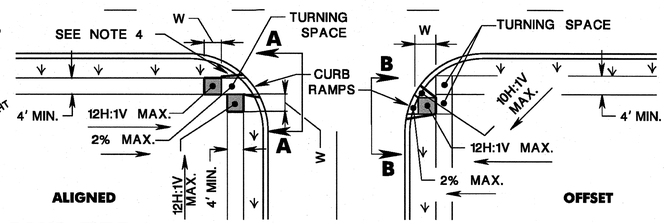

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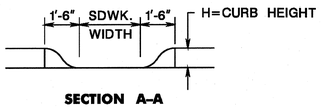
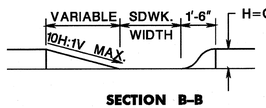
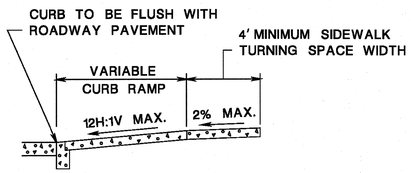


SECTION A–A

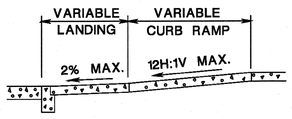
NOTE:
CURB RAMP OPENING TO BE FLUSH WITH ROADWAY PAVEMENT (CURB RAMP TYPES 5 & 6).



SECTION B–B



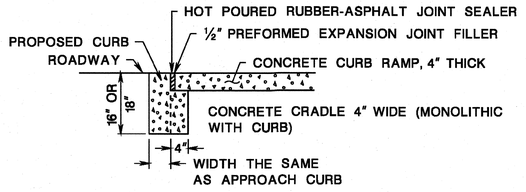
SECTION THROUGH CURB RAMPS 1 THROUGH 4



SECTION THROUGH CURB RAMPS 5 AND 6

NOTES:

1. KEEP TURNING SPACE, APPROACH SIDEWALK TRANSITIONS, AND CURB RAMP CLEAR OF OBSTRUCTIONS THAT PROTRUDE ABOVE THE SIDEWALK.
2. FOR DIMENSIONS SEE CD-606-1B AND CD-606-1C.
3. CURB (DROPPED CURB) GUTTERLINE TO BE FLUSH WITH ROADWAY PAVEMENT A MINIMUM OF 4 FEET AT ALL CURB RAMPS.
4. FOR CURB RAMP TYPES 5 AND 6, IF A GRASS BUFFER DOES NOT EXIST, SLOPE CURB TO EQUAL SLOPE OF ADJACENT CURB RAMP.
5. SIDEWALK AND CURB RAMP WITHIN AREA ENCLOSED BY HEAVY LINES INDICATES THE PAY LIMIT FOR CONCRETE SIDEWALK OF THE APPROPRIATE ADJACENT THICKNESS.
6. CURB AND HEADER WITHIN AREA ENCLOSED BY HEAVY LINES INDICATES THE PAY LIMIT FOR VERTICAL CURB OR SLOPING CURB OF THE APPROPRIATE ADJACENT SIZE AND KIND.
7. WHERE THE DISTANCE FROM THE GUTTER LINE TO THE OUTSIDE EDGE OF SIDEWALK IS 6 FEET OR LESS, USE CURB RAMP TYPE 7, INSTEAD OF CURB RAMP TYPE 1 THROUGH 4.
8. CROSSWALKS AND STOP LINES MAY BE MARKED OR UNMARKED. SEE PLANS.
9. DIMENSIONS SHOWN IN TABLES ARE FOR 3 INCH TO 9 INCH CURB HEIGHTS. WHERE THE CURB HEIGHTS ARE OTHER THAN WHAT IS PROVIDED IN THE TABLES, THE DIMENSIONS OF THE RAMPS WILL HAVE TO BE CALCULATED BASED ON CROSS SLOPES SHOWN.
10. THE 12H:1V MAX SLOPE IS THE RUNNING SLOPE FOR CURB RAMPS, BUT ONLY THE 12H:1V SLOPE MEASURED AS 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 MAXIMUM LENGTH.



CONCRETE SIDEWALK
(PUBLIC SIDEWALK CURB RAMP)
N.T.S.

CD-606-1

NEW JERSEY DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

CURB RAMPS

CD-606-1.1

BDC12D-05-MODIFICATION TO CURB RAMP DETAIL
BDC07D-01-ORIGINAL SHEET

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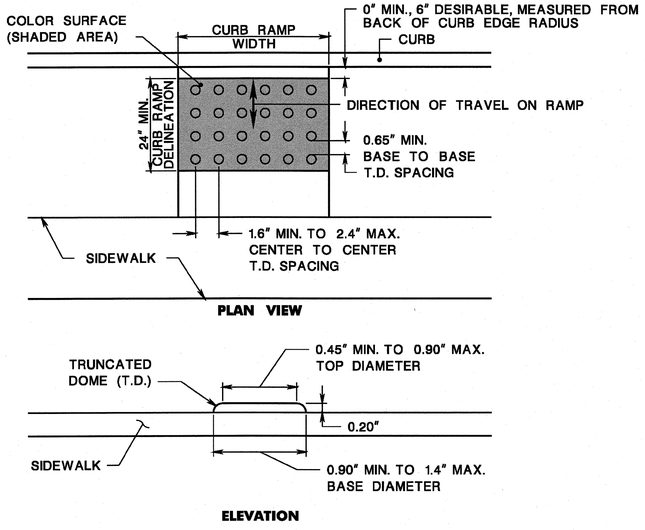
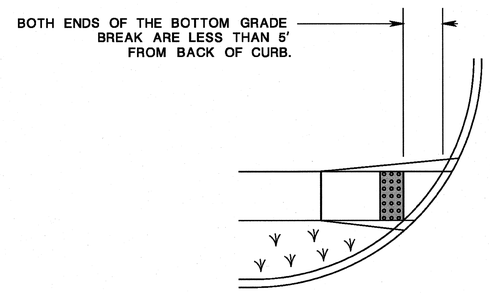
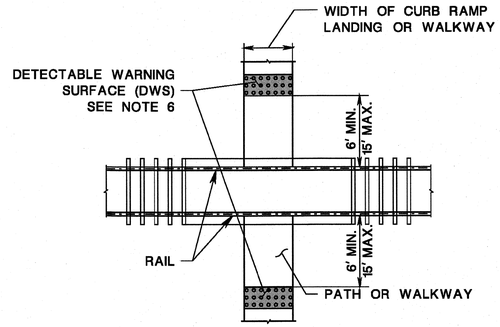
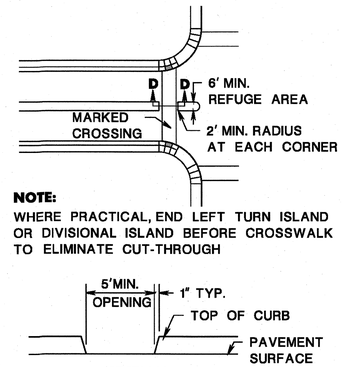


DETECTABLE WARNING SURFACE





PEDESTRIAN RAILROAD CROSSING

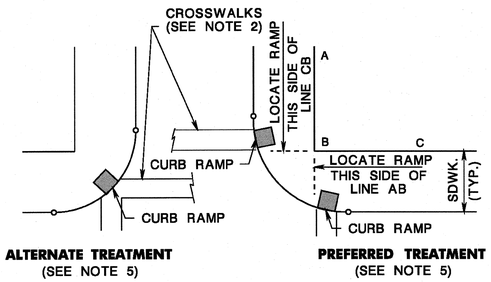


NOTE:
WHERE PRACTICAL, END LEFT TURN ISLAND OR DIVISIONAL ISLAND BEFORE CROSSWALK TO ELIMINATE CUT-THROUGH

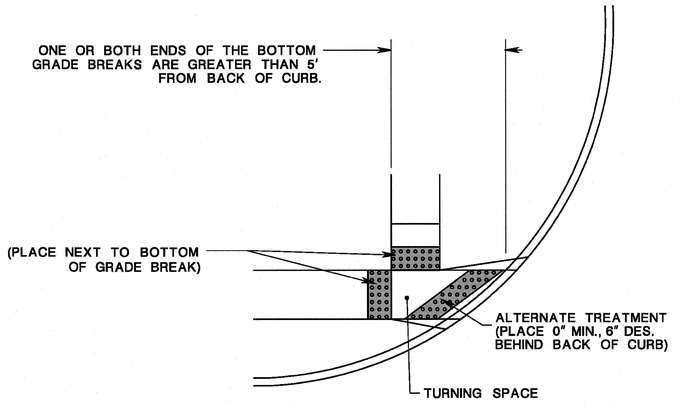
SECTION D–D

NOTE:
5'MIN. WIDE OPENING TO BE FLUSH WITH ROADWAY PAVEMENT

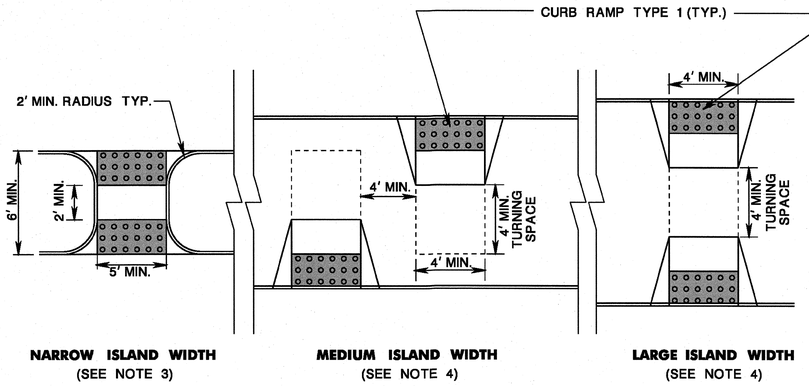
PEDESTRIAN REFUGE ISLAND WALKWAY OPENING AT INTERSECTIONS



LOCATION OF CURB RAMP TYPES 1, 2, 3, 4 & 7 FOR CROSSING PARALLEL AND PERPENDICULAR TO HIGHWAY



PLACEMENT OF DETECTABLE WARNING SURFACE FOR CURB RAMP TYPE 5 AND 6



NARROW ISLAND WIDTH
(SEE NOTE 3)

MEDIUM ISLAND WIDTH
(SEE NOTE 4)

LARGE ISLAND WIDTH
(SEE NOTE 4)

PEDESTRIAN REFUGE ISLAND

NOTES:
1. KEEP TURNING SPACE, APPROACH SIDEWALK TRANSITIONS, AND CURB RAMP CLEAR OF OBSTRUCTIONS THAT PROTRUDE ABOVE THE SIDEWALK.
2. CROSSWALKS AND STOP LINES MAY BE MARKED OR UNMARKED, SEE PLANS.
3. FOR NARROW ISLAND WIDTH, SEE PEDESTRIAN REFUGE ISLAND WALKWAY OPENING AT INTERSECTIONS DETAIL.
4. FOR MEDIUM AND LARGE ISLAND WIDTH, SEE CURB RAMP TYPE 1 ON CD-606-1.
5. CONSTRUCT CURB RAMP TYPES 1, 2, 3, 4 & 7 PERPENDICULAR TO CURBLINE, AS SHOWN.
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.

DETECTABLE WARNING SURFACE

N.T.S.

CD-606-1A

NEW JERSEY DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

CD-606-1.1A

BDC12D-05-ORIGINAL SHEET

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CURB RAMP TYPE 1

0.0 % GUTTER LINE PROFILE

H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET
3	3	2.50	2.50	9.00
4	4	3.33	3.33	10.67
5	5	4.17	4.17	12.33
6	6	5.00	5.00	14.00
7	7	5.83	5.83	15.67
8	8	6.67	6.67	17.33
9	9	7.50	7.50	19.00

1.0 % GUTTER LINE PROFILE

H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET
3	3	2.78	2.27	9.05
4	4	3.70	3.03	10.73
5	5	4.63	3.79	12.42
6	6	5.56	4.55	14.10
7	7	6.48	5.30	15.78
8	8	7.41	6.06	17.47
9	9	8.33	6.82	19.15

2.0 % GUTTER LINE PROFILE

H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET
3	3	3.13	2.08	9.21
4	4	4.17	2.78	10.94
5	5	5.21	3.47	12.68
6	6	6.25	4.17	14.42
7	7	7.29	4.86	16.15
8	8	8.33	5.56	17.89
9	9	9.38	6.25	19.63

3.0 % GUTTER LINE PROFILE

H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET
3	3	3.57	1.92	9.49
4	4	4.76	2.56	11.33
5	5	5.95	3.21	13.16
6	6	7.14	3.85	14.99
7	7	8.33	4.49	16.82
8	8	9.52	5.13	18.65
9	9	10.71	5.77	20.48

4.0 % GUTTER LINE PROFILE

H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET
3	3	4.17	1.79	9.95
4	4	5.56	2.38	11.94
5	5	6.94	2.98	13.92
6	6	8.33	3.57	15.90
7	7	9.72	4.17	17.89
8	8	11.11	4.76	19.87
9	9	12.50	5.36	21.86

5.0 % GUTTER LINE PROFILE

H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET
3	3	5.00	1.67	10.67
4	4	6.67	2.22	12.89
5	5	8.33	2.78	15.11
6	6	10.00	3.33	17.33
7	7	11.67	3.89	19.56
8	8	13.33	4.44	21.78
9	9	15.00	5.00	24.00

6.0 % GUTTER LINE PROFILE

H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET
3	3	6.25	1.56	11.81
4	4	8.33	2.08	14.42
5	5	10.42	2.60	17.02
6	6	12.50	3.13	19.63
7	7	14.58	3.65	22.23
8	8	15.00	4.17	23.17
9	9	15.00	4.69	23.69

7.0 % GUTTER LINE PROFILE

H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET
3	3	8.33	1.47	13.80
4	4	11.11	1.96	17.07
5	5	13.89	2.45	20.34
6	6	15.00	2.94	21.94
7	7	15.00	3.43	22.43
8	8	15.00	3.92	22.92
9	9	15.00	4.41	23.41

CURB RAMP TYPE 3

0.0 % GUTTER LINE PROFILE

H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET	Y INCHES	X_{2U} FEET	X_{2L} FEET	L_2 FEET
3		2.50	2.50	9.00		1.10	1.10	6.20
4		3.33	3.33	10.67		2.10	2.10	8.20
5		4.17	4.17	12.33		3.10	3.10	10.20
6	2.5	5.00	5.00	14.00	2.5	4.10	4.10	12.21
7		5.83	5.83	15.67		5.10	5.10	14.21
8		6.67	6.67	17.33		6.10	6.10	16.21
9		7.50	7.50	19.00		7.10	7.10	18.21
3		*	*	*		*	*	*
4		3.33	3.33	10.67		1.72	1.72	7.44
5		4.17	4.17	12.33		2.72	2.72	9.44
6	3.0	5.00	5.00	14.00	3.0	3.72	3.72	11.45
7		5.83	5.83	15.67		4.72	4.72	13.45
8		6.67	6.67	17.33		5.72	5.72	15.45
9		7.50	7.50	19.00		6.72	6.72	17.45
3		*	*	*		*	*	*
4		3.33	3.33	10.67		1.34	1.34	6.68
5		4.17	4.17	12.33		2.34	2.34	8.68
6	3.5	5.00	5.00	14.00	3.5	3.34	3.34	10.69
7		5.83	5.83	15.67		4.34	4.34	12.69
8		6.67	6.67	17.33		5.34	5.34	14.69
9		7.50	7.50	19.00		6.34	6.34	16.69
3		*	*	*		*	*	*
4		*	*	*		*	*	*
5		4.17	4.17	12.33		1.96	1.96	7.92
6	4.0	5.00	5.00	14.00	4.0	2.96	2.96	9.93
7		5.83	5.83	15.67		3.96	3.96	11.93
8		6.67	6.67	17.33		4.96	4.96	13.93
9		7.50	7.50	19.00		5.96	5.96	15.93

1.0 % GUTTER LINE PROFILE

H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET	Y INCHES	X_{2U} FEET	X_{2L} FEET	L_2 FEET
3		2.78	2.27	9.05		1.25	0.98	6.24
4		3.70	3.03	10.73		2.39	1.88	8.27
5		4.63	3.79	12.42		3.53	2.77	10.30
6	2.5	5.56	4.55	14.10	2.5	4.66	3.66	12.33
7		6.48	5.30	15.78		5.80	4.56	14.36
8		7.41	6.06	17.47		6.94	5.45	16.39
9		8.33	6.82	19.15		8.07	6.34	18.42
3		2.78	2.27	9.05		0.82	0.64	5.46
4		3.70	3.03	10.73		1.96	1.54	7.49
5		4.63	3.79	12.42		3.09	2.43	9.52
6	3.0	5.56	4.55	14.10	3.0	4.23	3.32	11.55
7		6.48	5.30	15.78		5.37	4.22	13.58
8		7.41	6.06	17.47		6.50	5.11	15.61
9		8.33	6.82	19.15		7.64	6.00	17.64
3		2.78	2.27	9.05		0.39	0.30	4.69
4		3.70	3.03	10.73		1.53	1.20	6.72
5		4.63	3.79	12.42		2.66	2.09	8.75
6	3.5	5.56	4.55	14.10	3.5	3.80	2.98	10.78
7		6.48	5.30	15.78		4.94	3.88	12.81
8		7.41	6.06	17.47		6.07	4.77	14.84
9		8.33	6.82	19.15		7.21	5.66	16.87
3		*	*	*		*	*	*
4		3.70	3.03	10.73		1.09	0.86	5.95
5		4.63	3.79	12.42		2.23	1.75	7.98
6	4.0	5.56	4.55	14.10	4.0	3.37	2.65	10.01
7		6.48	5.30	15.78		4.50	3.54	12.04
8		7.41	6.06	17.47		5.64	4.43	14.07
9		8.33	6.82	19.15		6.78	5.32	16.10

2.0 % GUTTER LINE PROFILE

H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET	Y INCHES	X_{2U} FEET	X_{2L} FEET	L_2 FEET
3		3.13	2.08	9.21		1.45	0.89	6.34
4		4.17	2.78	10.94		2.77	1.69	8.46
5		5.21	3.47	12.68		4.08	2.50	10.58
6	2.5	6.25	4.17	14.42	2.5	5.40	3.31	12.71
7		7.29	4.86	16.15		6.72	4.12	14.83
8		8.33	5.56	17.89		8.03	4.92	16.95
9		9.38	6.25	19.63		9.35	5.73	19.08
3		3.13	2.08	9.21		0.95	0.58	5.53
4		4.17	2.78	10.94		2.27	1.39	7.65
5		5.21	3.47	12.68		3.58	2.20	9.78
6	3.0	6.25	4.17	14.42	3.0	4.90	3.00	11.90
7		7.29	4.86	16.15		6.22	3.81	14.02
8		8.33	5.56	17.89		7.53	4.62	16.15
9		9.38	6.25	19.63		8.85	5.42	18.27
3		3.13	2.08	9.21		0.45	0.28	4.72
4		4.17	2.78	10.94		1.77	1.08	6.85
5		5.21	3.47	12.68		3.08	1.89	8.97
6	3.5	6.25	4.17	14.42	3.5	4.40	2.70	11.09
7		7.29	4.86	16.15		5.72	3.50	13.22
8		8.33	5.56	17.89		7.03	4.31	15.34
9		9.38	6.25	19.63		8.35	5.12	17.46
3		*	*	*		*	*	*
4		4.17	2.78	10.94		1.27	0.78	6.04
5		5.21	3.47	12.68		2.58	1.58	8.16
6	4.0	6.25	4.17	14.42	4.0	3.90	2.39	10.29
7		7.29	4.86	16.15		5.22	3.20	12.41
8		8.33	5.56	17.89		6.53	4.00	14.53
9		9.38	6.25	19.63		7.85	4.81	16.66

3.0 % GUTTER LINE PROFILE

H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET	Y INCHES	X_{2U} FEET	X_{2L} FEET	L_2 FEET
3		3.57	1.92	9.49		1.72	0.81	6.53
4		4.76	2.56	11.33		3.28	1.55	8.83
5		5.95	3.21	13.16		4.85	2.28	11.13
6	2.5	7.14	3.85	14.99	2.5	6.41	3.02	13.43
7		8.33	4.49	16.82		7.98	3.75	15.73
8		9.52	5.13	18.65		9.54	4.49	18.03
9		10.71	5.77	20.48		11.10	5.22	20.33
3		3.57	1.92	9.49		1.13	0.53	5.66
4		4.76	2.56	11.33		2.69	1.27	7.96
5		5.95	3.21	13.16		4.25	2.00	10.26
6	3.0	7.14	3.85	14.99	3.0	5.82	2.74	12.55
7		8.33	4.49	16.82		7.38	3.47	14.85
8		9.52	5.13	18.65		8.94	4.21	17.15
9		10.71	5.77	20.48		10.51	4.94	19.45
3		3.57	1.92	9.49		0.53	0.25	4.78
4		4.76	2.56	11.33		2.10	0.99	7.08
5		5.95	3.21	13.16		3.66	1.72	9.38
6	3.5	7.14	3.85	14.99	3.5	5.22	2.46	11.68
7		8.33	4.49	16.82		6.79	3.19	13.98
8		9.52	5.13	18.65		8.35	3.93	16.28
9		10.71	5.77	20.48		9.91	4.66	18.58
3		*	*	*		*	*	*
4		4.76	2.56	11.33		1.50	0.71	6.21
5		5.95	3.21	13.16		3.07	1.44	8.51
6	4.0	7.14	3.85	14.99	4.0	4.63	2.18	10.81
7		8.33	4.49	16.82		6.19	2.91	13.11
8		9.52	5.13	18.65		7.76	3.65	15.41
9		10.71	5.77	20.48		9.32	4.38	17.71

4.0 % GUTTER LINE PROFILE

H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET	Y INCHES	X_{2U} FEET	X_{2L} FEET	L_2 FEET
3		4.17	1.79	9.95		2.12	0.74	6.86
4		5.56	2.38	11.94		4.04	1.42	9.46
5		6.94	2.98	13.92		5.97	2.10	12.06
6	2.5	8.33	3.57	15.90	2.5	7.89	2.77	14.66
7		9.72	4.17	17.89		9.82	3.45	17.26
8		11.11	4.76	19.87		11.74	4.12	19.87
9		12.50	5.36	21.86		13.67	4.80	22.47
3		4.17	1.79	9.95		1.39	0.49	5.88
4		5.56	2.38	11.94		3.31	1.16	8.48
5		6.94	2.98	13.92		5.24	1.84	11.08
6	3.0	8.33	3.57	15.90	3.0	7.16	2.52	13.68
7		9.72	4.17	17.89		9.09	3.19	16.28
8		11.11	4.76	19.87		11.01	3.87	18.88
9		12.50	5.36	21.86		12.94	4.54	21.48
3		4.17	1.79	9.95		0.66	0.23	4.89
4		5.56	2.38	11.94		2.58	0.91	7.49
5		6.94	2.98	13.92		4.51	1.58	10.09
6	3.5	8.33	3.57	15.90	3.5	6.43	2.26	12.69
7		9.72	4.17	17.89		8.36	2.93	15.29
8		11.11	4.76	19.87		10.28	3.61	17.89
9		12.50	5.36	21.86		12.20	4.29	20.49
3		*	*	*		*	*	*
4		5.56	2.38	11.94		1.85	0.65	6.50
5		6.94	2.98	13.92		3.78	1.33	9.10
6	4.0	8.33	3.57	15.90	4.0	5.70	2.00	11.70
7		9.72	4.17	17.89		7.62	2.68	14.30
8		11.11	4.76	19.87		9.55	3.35	16.90
9		12.50	5.36	21.86		11.47	4.03	19.50

5.0 % GUTTER LINE PROFILE

H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET	Y INCHES	X_{2U} FEET	X_{2L} FEET	L_2 FEET
3		5.00	1.67	10.67		2.76	0.69	7.44
4		6.67	2.22	12.89		5.26	1.31	10.57
5		8.33	2.78	15.11		7.76	1.94	13.70
6	2.5	10.00	3.33	17.33	2.5	10.26	2.56	16.83
7		11.67	3.89	19.56		12.77	3.19	19.95
8		13.33	4.44	21.78		15.00	3.81	22.81
9		15.00	5.00	24.00		15.00	4.44	23.44
3		5.00	1.67	10.67		1.80	0.45	6.26
4		6.67	2.22	12.89		4.31	1.08	9.38
5		8.33	2.78	15.11		6.81	1.70	12.51
6	3.0	10.00	3.33	17.33	3.0	9.31	2.33	15.64
7		11.67	3.89	19.56		11.81	2.95	18.77
8		13.33	4.44	21.78		14.32	3.58	21.89
9		15.00	5.00	24.00		15.00	4.20	23.20
3		5.00	1.67	10.67		0.85	0.21	5.07
4		6.67	2.22	12.89		3.36	0.84	8.20
5		8.33	2.78	15.11		5.86	1.46	11.32
6	3.5	10.00	3.33	17.33	3.5	8.36	2.09	14.45
7		11.67	3.89	19.56		10.86	2.71	17.58
8		13.33	4.44	21.78		13.37	3.34	20.71
9		15.00	5.00	24.00		15.00	3.96	22.96
3		*	*	*		*	*	*
4		6.67	2.22	12.89		2.41	0.60	7.01
5		8.33	2.78	15.11		4.91	1.23	10.14
6	4.0	10.00	3.33	17.33	4.0	7.41	1.85	13.26
7		11.67	3.89	19.56		9.91	2.48	16.39
8		13.33	4.44	21.78		12.42	3.10	19.52
9		15.00	5.00	24.00		14.92	3.73	22.65

6.0 % GUTTER LINE PROFILE

H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET	Y INCHES	X_{2U} FEET	X_{2L} FEET	L_2 FEET
3		6.25	1.56	11.81		3.94	0.64	8.58
4		8.33	2.08	14.42		7.51	1.22	12.74
5		10.42	2.60	17.02		11.09	1.80	16.89
6	2.5	12.50	3.13	19.63	2.5	14.67	2.38	21.05
7		14.58	3.65	22.23		15.00	2.97	21.97
8		15.00	4.17	23.17		15.00	3.55	22.55
9		15.00	4.69	23.69		15.00	4.13	23.13
3		6.25	1.56	11.81		2.58	0.42	7.00
4		8.33	2.08	14.42		6.16	1.00	11.16
5		10.42	2.60	17.02		9.73	1.58	15.31
6	3.0	12.50	3.13	19.63	3.0	13.31	2.16	19.47
7		14.58	3.65	22.23		15.00	2.75	21.75
8		15.00	4.17	23.17		15.00	3.33	22.33
9		15.00	4.69	23.69		15.00	3.91	22.91
3		6.25	1.56	11.81		1.22	0.20	5.42
4		8.33	2.08	14.42		4.80	0.78	9.58
5		10.42	2.60	17.02		8.37	1.36	13.74
6	3.5	12.50	3.13	19.63	3.5	11.95	1.94	17.89
7		14.58	3.65	22.23		15.00	2.52	21.52
8		15.00	4.17	23.17		15.00	3.11	22.11
9		15.00	4.69	23.69		15.00	3.69	22.69
3		*	*	*		*	*	*
4		8.33	2.08	14.42		3.44	0.56	8.00
5		10.42	2.60	17.02		7.02	1.14	12.16
6	4.0	12.50	3.13	19.63	4.0	10.59	1.72	16.31
7		14.58	3.65	22.23		14.17	2.30	20.47
8		15.00	4.17	23.17		15.00	2.89	21.89
9		15.00	4.69	23.69		15.00	3.47	22.47

7.0 % GUTTER LINE PROFILE

H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET	Y INCHES	X_{2U} FEET	X_{2L} FEET	L_2 FEET
3		8.33	1.47	13.80		6.90	0.60	11.50
4		11.11	1.96	17.07		13.16	1.14	18.31
5		13.89	2.45	20.34		15.00	1.69	20.69
6	2.5	15.00	2.94	21.94	2.5	15.00	2.23	21.23
7		15.00	3.43	22.43		15.00	2.77	21.77
8		15.00	3.92	22.92		15.00	3.32	22.32
9		15.00	4.41	23.41		15.00	3.86	22.86
3		8.33	1.47	13.80		4.52	0.39	8.91
4		11.11	1.96	17.07		10.78	0.94	15.72
5		13.89	2.45	20.34		15.00	1.48	20.48
6	3.0	15.00	2.94	21.94	3.0	15.00	2.02	21.02
7		15.00	3.43	22.43		15.00	2.57	21.57
8		15.00	3.92	22.92		15.00	3.11	22.11
9		15.00	4.41	23.41		15.00	3.65	22.65
3		8.33	1.47	13.80		2.14	0.19	6.32
4		11.11	1.96	17.07		8.40	0.73	13.13
5		13.89	2.45	20.34		14.67	1.27	19.94
6	3.5	15.00	2.94	21.94	3.5	15.00	1.82	20.82
7		15.00	3.43	22.43		15.00	2.36	21.36
8		15.00	3.92	22.92		15.00	2.90	21.90
9		15.00	4.41	23.41		15.00	3.45	22.45
3		*	*	*		*	*	*
4		11.11	1.96	17.07		6.03	0.52	10.55
5		13.89	2.45	20.34		12.29	1.07	17.36
6	4.0	15.00	2.94	21.94	4.0	15.00	1.61	20.61
7		15.00	3.43	22.43		15.00	2.15	21.15
8		15.00	3.92	22.92		15.00	2.70	21.70
9		15.00	4.41	23.41		15.00	3.24	22.24

CURB RAMP TYPE 2

0-8 % GUTTER LINE PROFILE

H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET
3	3	1.50	1.50	7.00
4	4	1.50	1.50	7.00
5	5	1.50	1.50	7.00
6	6	1.50	1.50	7.00
7	7	1.50	1.50	7.00
8	8	1.50	1.50	7.00
9	9	1.50	1.50	7.00

NOTES:

1. FOR CURB RAMP TYPES, SEE CD-606-1.
2. THE ABOVE TABLES ARE BASED ON THE SPECIFIC GUTTER PROFILE REFERENCED. THEY DO NOT TAKE INTO ACCOUNT VARIATIONS IN THE GUTTER PROFILE. THE ABOVE TABLES TO BE USED BY THE DESIGNERS AND CONTRACTORS TO GET APPROXIMATE DIMENSIONS OF THE CURB RAMP AT EACH LOCATION. FINAL DIMENSIONS WILL BE DETERMINED BY ACTUAL MEASUREMENTS IN THE FIELD DURING CONSTRUCTION.
3. THE 12H:1V MAX SLOPE IS THE RUNNING SLOPE FOR CURB RAMPS, BUT ONLY THE 12H:1V SLOPE MEASURED AS X 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 MAXIMUM LENGTH. THE TABLES ALREADY APPLY THE 15 FEET RULE FOR THOSE CALCULATED LENGTHS WHICH EXCEED 15 FEET.

LEGEND

U = UPPER SIDE OF GUTTER LINE PROFILE

L = LOWER SIDE OF GUTTER LINE PROFILE

FOR THE OTHER ABBREVIATIONS - REFER TO CD-606-1

* TYPE 3 RAMP IS NOT APPLICABLE, USE TYPE 1

** TYPE 4 RAMP IS NOT APPLICABLE, USE TYPE 2

CONCRETE SIDEWALK

(PUBLIC SIDEWALK CURB RAMP TABLES)

N.T.S.

CD-606-1B

NEW JERSEY DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

CD-606-1.1B

BDC12D-05-ORIGINAL SHEET
date=13-JAN-2015 10:39
scale=30.267596:1.000000
pen table=\\jdotxpw\v8system\jdotxw\projects\jdotxw\plot\tbl\roadway\Details.tbl
ID=TT2VLL
file=_Quality Management Services07 Pending BDC and Work Area/BDC13D-0101 Roadway Details/052A_CD-606-1T PublicSidewalk.dgn

CURB RAMP TYPE 4

0.0 % GUTTER LINE PROFILE					
H INCHES	W FEET	Y INCHES	X_{2U} FEET	X_{2L} FEET	L_2 FEET
3	2.5	2.5	1.10	1.10	6.20
4			2.10	2.10	8.20
5			3.10	3.10	10.20
6			4.10	4.10	12.20
7			5.10	5.10	14.21
8			6.10	6.10	16.21
9			7.10	7.10	18.21
3	3.0	3.0	**	**	**
4			1.72	1.72	7.44
5			2.72	2.72	9.44
6			3.72	3.72	11.45
7			4.72	4.72	13.45
8			5.72	5.72	15.45
9			6.72	6.72	17.45
3	3.5	3.5	**	**	**
4			1.34	1.34	6.68
5			2.34	2.34	8.68
6			3.34	3.34	10.69
7			4.34	4.34	12.69
8			5.34	5.34	14.69
9			6.34	6.34	16.69
3	4.0	4.0	**	**	**
4			**	**	**
5			1.96	1.96	7.92
6			2.96	2.96	9.93
7			3.96	3.96	11.93
8			4.96	4.96	13.93
9			5.96	5.96	15.93

1.0 % GUTTER LINE PROFILE					
H INCHES	W FEET	Y INCHES	X_{2U} FEET	X_{2L} FEET	L_2 FEET
3	2.5	2.5	1.25	0.98	6.24
4			2.39	1.88	8.27
5			3.53	2.77	10.30
6			4.66	3.66	12.33
7			5.80	4.56	14.36
8			6.94	5.45	16.39
9			8.07	6.34	18.42
3	3.0	3.0	0.82	0.64	5.46
4			1.96	1.54	7.49
5			3.09	2.43	9.52
6			4.23	3.32	11.55
7			5.37	4.22	13.58
8			6.50	5.11	15.61
9			7.64	6.00	17.64
3	3.5	3.5	0.39	0.30	4.69
4			1.53	1.20	6.72
5			2.66	2.09	8.75
6			3.80	2.98	10.78
7			4.94	3.88	12.81
8			6.07	4.77	14.84
9			7.21	5.66	16.87
3	4.0	4.0	**	**	**
4			1.09	0.86	5.95
5			2.23	1.75	7.98
6			3.37	2.65	10.01
7			4.50	3.54	12.04
8			5.64	4.43	14.07
9			6.78	5.32	16.10

2.0 % GUTTER LINE PROFILE					
H INCHES	W FEET	Y INCHES	X_{2U} FEET	X_{2L} FEET	L_2 FEET
3	2.5	2.5	1.45	0.89	6.34
4			2.77	1.69	8.46
5			4.08	2.50	10.58
6			5.40	3.31	12.71
7			6.72	4.12	14.83
8			8.03	4.92	16.95
9			9.35	5.73	19.08
3	3.0	3.0	0.95	0.58	5.53
4			2.27	1.39	7.65
5			3.58	2.20	9.78
6			4.90	3.00	11.90
7			6.22	3.81	14.02
8			7.53	4.62	16.15
9			8.85	5.42	18.27
3	3.5	3.5	0.45	0.28	4.72
4			1.77	1.08	6.85
5			3.08	1.89	8.97
6			4.40	2.70	11.09
7			5.72	3.50	13.22
8			7.03	4.31	15.34
9			8.35	5.12	17.46
3	4.0	4.0	**	**	**
4			1.27	0.78	6.04
5			2.58	1.58	8.16
6			3.90	2.39	10.29
7			5.22	3.20	12.41
8			6.53	4.00	14.53
9			7.85	4.81	16.66

3.0 % GUTTER LINE PROFILE					
H INCHES	W FEET	Y INCHES	X_{2U} FEET	X_{2L} FEET	L_2 FEET
3	2.5	2.5	1.72	0.81	6.53
4			3.28	1.55	8.83
5			4.85	2.28	11.13
6			6.41	3.02	13.43
7			7.98	3.75	15.73
8			9.54	4.49	18.03
9			11.10	5.22	20.33
3	3.0	3.0	1.13	0.53	5.66
4			2.69	1.27	7.96
5			4.25	2.00	10.26
6			5.82	2.74	12.55
7			7.38	3.47	14.85
8			8.94	4.21	17.15
9			10.51	4.94	19.45
3	3.5	3.5	0.53	0.25	4.78
4			2.10	0.99	7.08
5			3.66	1.72	9.38
6			5.22	2.46	11.68
7			6.79	3.19	13.98
8			8.35	3.93	16.28
9			9.91	4.66	18.58
3	4.0	4.0	**	**	**
4			1.50	0.71	6.21
5			3.07	1.44	8.51
6			4.63	2.18	10.81
7			6.19	2.91	13.11
8			7.76	3.65	15.41
9			9.32	4.38	17.71

4.0 % GUTTER LINE PROFILE					
H INCHES	W FEET	Y INCHES	X_{2U} FEET	X_{2L} FEET	L_2 FEET
3	2.5	2.5	2.12	0.74	6.86
4			4.04	1.42	9.46
5			5.97	2.10	12.06
6			7.89	2.77	14.66
7			9.82	3.45	17.26
8			11.74	4.12	19.87
9			13.67	4.80	22.47
3	3.0	3.0	1.39	0.49	5.88
4			3.31	1.16	8.48
5			5.24	1.84	11.08
6			7.16	2.52	13.68
7			9.09	3.19	16.28
8			11.01	3.87	18.88
9			12.94	4.54	21.48
3	3.5	3.5	0.66	0.23	4.89
4			2.58	0.91	7.49
5			4.51	1.58	10.09
6			6.43	2.26	12.69
7			8.36	2.93	15.29
8			10.28	3.61	17.89
9			12.20	4.29	20.49
3	4.0	4.0	**	**	**
4			1.85	0.65	6.50
5			3.78	1.33	9.10
6			5.70	2.00	11.70
7			7.62	2.68	14.30
8			9.55	3.35	16.90
9			11.47	4.03	19.50

5.0 % GUTTER LINE PROFILE					
H INCHES	W FEET	Y INCHES	X_{2U} FEET	X_{2L} FEET	L_2 FEET
3	2.5	2.5	2.76	0.69	7.44
4			5.26	1.31	10.57
5			7.76	1.94	13.70
6			10.26	2.56	16.83
7			12.77	3.19	19.95
8			15.00	3.81	22.81
9			15.00	4.44	23.44
3	3.0	3.0	1.80	0.45	6.26
4			4.31	1.08	9.38
5			6.81	1.70	12.51
6			9.31	2.33	15.64
7			11.81	2.95	18.77
8			14.32	3.58	21.89
9			15.00	4.20	23.20
3	3.5	3.5	0.85	0.21	5.07
4			3.36	0.84	8.20
5			5.86	1.46	11.32
6			8.36	2.09	14.45
7			10.86	2.71	17.58
8			13.37	3.34	20.71
9			15.00	3.96	22.96
3	4.0	4.0	**	**	**
4			2.41	0.60	7.01
5			4.91	1.23	10.14
6			7.41	1.85	13.26
7			9.91	2.48	16.39
8			12.42	3.10	19.52
9			14.92	3.73	22.65

6.0 % GUTTER LINE PROFILE					
H INCHES	W FEET	Y INCHES	X_{2U} FEET	X_{2L} FEET	L_2 FEET
3	2.5	2.5	3.94	0.64	8.58
4			7.51	1.22	12.74
5			11.09	1.80	16.89
6			14.67	2.38	21.05
7			15.00	2.97	21.97
8			15.00	3.55	22.55
9			15.00	4.13	23.13
3	3.0	3.0	2.58	0.42	7.00
4			6.16	1.00	11.16
5			9.73	1.58	15.31
6			13.31	2.16	19.47
7			15.00	2.75	21.75
8			15.00	3.33	22.33
9			15.00	3.91	22.91
3	3.5	3.5	1.22	0.20	5.42
4			4.80	0.78	9.58
5			8.37	1.36	13.74
6			11.95	1.94	17.89
7			15.00	2.52	21.52
8			15.00	3.11	22.11
9			15.00	3.69	22.69
3	4.0	4.0	**	**	**
4			3.44	0.56	8.00
5			7.02	1.14	12.16
6			10.59	1.72	16.31
7			14.17	2.30	20.47
8			15.00	2.89	21.89
9			15.00	3.47	22.47

7.0 % GUTTER LINE PROFILE					
H INCHES	W FEET	Y INCHES	X_{2U} FEET	X_{2L} FEET	L_2 FEET
3	2.5	2.5	6.90	0.60	11.50
4			13.16	1.14	18.31
5			15.00	1.69	20.69
6			15.00	2.23	21.23
7			15.00	2.77	21.77
8			15.00	3.32	22.32
9			15.00	3.86	22.86
3	3.0	3.0	4.52	0.39	8.91
4			10.78	0.94	15.72
5			15.00	1.48	20.48
6			15.00	2.02	21.02
7			15.00	2.57	21.57
8			15.00	3.11	22.11
9			15.00	3.65	22.65
3	3.5	3.5	2.14	0.19	6.32
4			8.40	0.73	13.13
5			14.67	1.27	19.94
6			15.00	1.82	20.82
7			15.00	2.36	21.36
8			15.00	2.90	21.90
9			15.00	3.45	22.45
3	4.0	4.0	**	**	**
4			6.03	0.52	10.55
5			12.29	1.07	17.36
6			15.00	1.61	20.61
7			15.00	2.15	21.15
8			15.00	2.70	21.70
9			15.00	3.24	22.24

NOTES:

1. FOR CURB RAMP TYPES, SEE CD-606-1.
2. THE ABOVE TABLES ARE BASED ON THE SPECIFIC GUTTER PROFILE REFERENCED. THEY DO NOT TAKE INTO ACCOUNT VARIATIONS IN THE GUTTER PROFILE. THE ABOVE TABLES TO BE USED BY THE DESIGNERS AND CONTRACTORS TO GET APPROXIMATE DIMENSIONS OF THE CURB RAMP AT EACH LOCATION. FINAL DIMENSIONS WILL BE DETERMINED BY ACTUAL MEASUREMENTS IN THE FIELD DURING CONSTRUCTION.
3. THE 12H:1V MAX SLOPE IS THE RUNNING SLOPE FOR CURB RAMPS, BUT ONLY THE 12H:1V SLOPE MEASURED AS X 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 MAXIMUM LENGTH. THE TABLES ALREADY APPLY THE 15 FEET RULE FOR THOSE CALCULATED LENGTHS WHICH EXCEED 15 FEET.

LEGEND

U = UPPER SIDE OF GUTTER LINE PROFILE

L = LOWER SIDE OF GUTTER LINE PROFILE

FOR THE OTHER ABBREVIATIONS - REFER TO CD-606-1

* TYPE 3 RAMP IS NOT APPLICABLE, USE TYPE 1

** TYPE 4 RAMP IS NOT APPLICABLE, USE TYPE 2

CURB RAMP TYPE 7

0.0 % GUTTER LINE PROFILE				
H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET
3	3	3.00	3.00	10.00
4	4	4.00	4.00	12.00
5	5	5.00	5.00	14.00
6	6	6.00	6.00	16.00
7	7	7.00	7.00	18.01
8	8	8.00	8.00	20.01
9	9	9.00	9.00	22.01

1.0 % GUTTER LINE PROFILE				
H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET
3	3	3.41	2.68	10.09
4	4	4.55	3.57	12.12
5	5	5.68	4.47	14.15
6	6	6.82	5.36	16.18
7	7	7.96	6.25	18.21
8	8	9.10	7.15	20.24
9	9	10.23	8.04	22.27

2.0 % GUTTER LINE PROFILE				
H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET
3	3	3.95	2.42	10.37
4	4	5.27	3.23	12.49
5	5	6.58	4.03	14.62
6	6	7.90	4.84	16.74
7	7	9.22	5.65	18.86
8	8	10.53	6.45	20.99
9	9	11.85	7.26	23.11

3.0 % GUTTER LINE PROFILE				
H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET
3	3	4.69	2.21	10.90
4	4	6.25	2.94	13.20
5	5	7.82	3.68	15.49
6	6	9.38	4.41	17.79
7	7	10.94	5.15	20.09
8	8	12.51	5.88	22.39
9	9	14.07	6.62	24.69

4.0 % GUTTER LINE PROFILE				
H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L1 FEET
3	3	5.77	2.03	11.80
4	4	7.70	2.70	14.40
5	5	9.62	3.38	17.00
6	6	11.55	4.06	19.60
7	7	13.47	4.73	22.20
8	8	15.40	5.41	24.80
9	9	17.32	6.08	27.40

5.0 % GUTTER LINE PROFILE				
H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L1 FEET
3	3	7.51	1.88	13.38
4	4	10.01	2.50	16.51
5	5	12.51	3.13	19.64
6	6	15.00	3.75	22.75
7	7	15.00	4.38	23.38
8	8	15.00	5.00	24.00
9	9	15.00	5.63	24.63

6.0 % GUTTER LINE PROFILE				
H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L1 FEET
3	3	10.73	1.74	16.47
4	4	14.31	2.33	20.63
5	5	15.00	2.91	21.91
6	6	15.00	3.49	22.49
7	7	15.00	4.07	23.07
8	8	15.00	4.65	23.65
9	9	15.00	5.23	24.23

7.0 % GUTTER LINE PROFILE				
H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L1 FEET
3	3	15.00	1.63	20.63
4	4	15.00	2.17	21.17
5	5	15.00	2.72	21.72
6	6	15.00	3.26	22.26
7	7	15.00	3.81	22.81
8	8	15.00	4.35	23.35
9	9	15.00	4.89	23.89

CONCRETE SIDEWALK

(PUBLIC SIDEWALK CURB RAMP TABLES)

N.T.S.

CD-606-1C

NEW JERSEY DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

CD-606-1.1C

69
77

BDC12D-05-ORIGINAL SHEET

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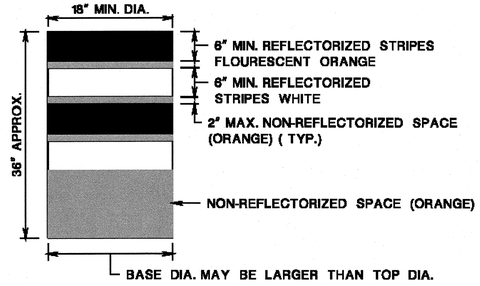
ENSURE DRUMS ARE MADE OF ORANGE PLASTIC WITH A MINIMUM OF FOUR ALTERNATE FLUORESCENT ORANGE AND WHITE RETROREFLECTIVE STRIPES. IF THERE ARE NON-REFLECTORIZED SPACES BETWEEN THE STRIPES, THEY ARE TO BE NO MORE THAN 2" WIDE. ENSURE RETROREFLECTIVE SHEETING FOR STRIPES CONFORMS WITH ASTM D4956 TYPE VII OR VIII WITH S2 REQUIREMENTS.

ENSURE THE TOP OF THE DRUM IS NOT OPEN. CONSTRUCT DRUMS TO INHIBIT ROLLING IF KNOCKED OVER.

ENSURE THE REFLECTORIZED AREA OF DRUMS IS ROUND EXCEPT OTHER SHAPES, WHICH PROVIDE THE SAME VISIBILITY AS AN 18 INCH DIAMETER ROUND DRUM REGARDLESS OF ORIENTATION, MAY BE USED.



WHEN BALLAST IS REQUIRED BY THE RE, USE SAND. THE MAXIMUM WEIGHT OF THE BALLAST IS 50 LBS. AND IS TO BE LOCATED APPROXIMATELY AT GROUND LEVEL. ALTERNATE TYPES OF BALLAST MUST BE APPROVED BY THE RE.

DRUMS

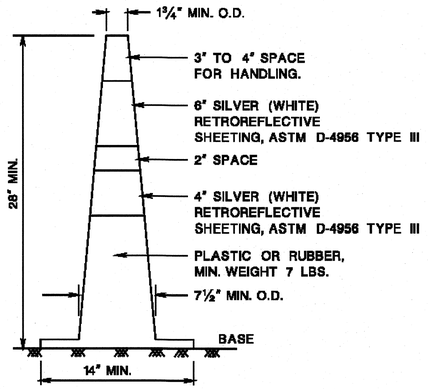
CD-159-1.1

NOTES:

TRAFFIC CONES MUST BE PREDOMINATELY ORANGE IN COLOR.

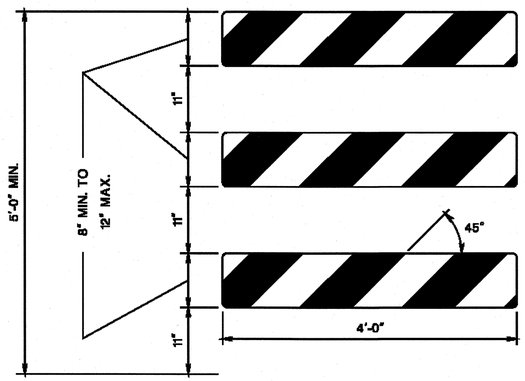
BASES MAY BE OF BREAKAWAY BALLASTED TYPE.

MINOR MANUFACTURER'S VARIATIONS MAY BE ACCEPTABLE UPON APPROVAL OF THE RE.



TRAFFIC CONES

CD-159-1.2



TYPE III BARRICADE – FRONT VIEW

NOTES:

1. ENSURE THE 8" MIN. x 48", TO 12" MAX. x 48" BARRICADE RAILS TO BE ATTACHED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.
2. ENSURE ORANGE AND SILVER (WHITE) STRIPES TO BE RETROREFLECTIVE SHEETING, ASTM D4956 TYPE III. ALTERNATE ORANGE AND SILVER (WHITE) STRIPES 6" WIDE SLOPING DOWNWARD AT AN ANGLE OF 45 DEGREES IN THE DIRECTION TRAFFIC IS TO PASS.
3. THE FRAMING, RAILS, AND BALLAST FOR BREAKAWAY BARRICADE TO BE NCHRP-350 CRASHED TESTED AND FHWA APPROVED.
4. IF NECESSARY, FABRICATE THE BALLAST AND PLACE ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.

BREAKAWAY BARRICADES

CD-159-1.3

TRAFFIC CONTROL DEVICES

N.T.S.

CD-159-1

NEW JERSEY DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

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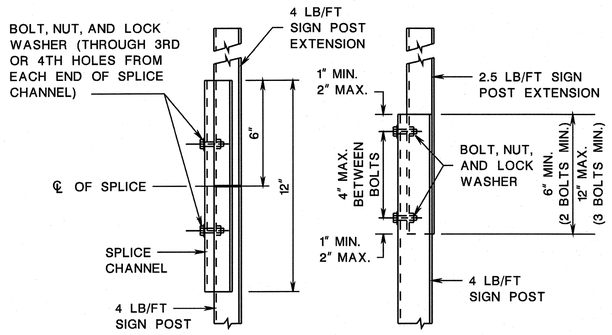
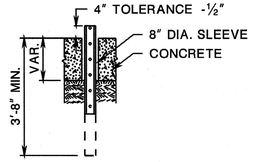
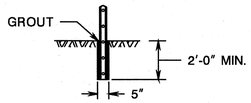


SIGN POST EXTENSION SPLICE DETAILS



CONCRETE INSTALLATION



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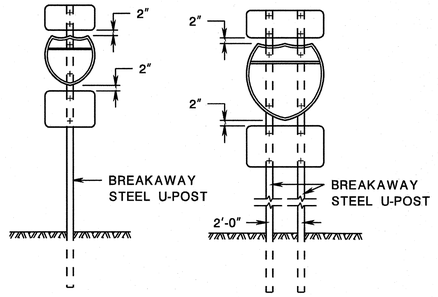
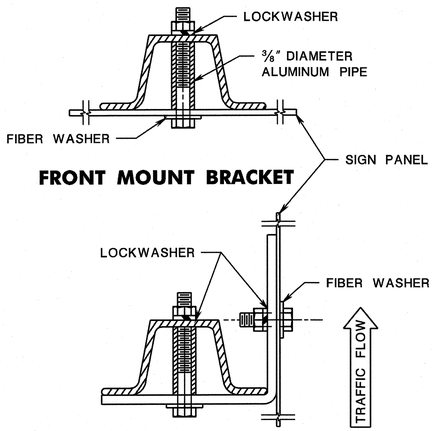
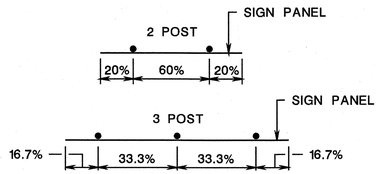


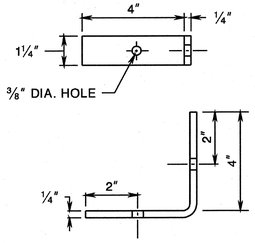


FRONT MOUNT BRACKET

SIDE MOUNT BRACKET



STEEL U-POST SPACING

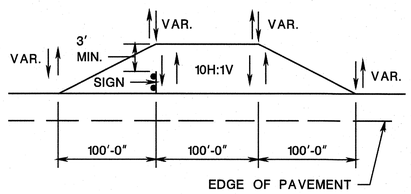


DETAIL OF BRACKET FOR SIDE MOUNTED SIGNS

PANEL SIZE (W x H)	# OF POSTS	POST SIZE (LB/FT)
18" x 18"	1	2.5
18" x 24"	1	2.5
24" x 24"	1	2.5
24" x 30"	1	2.5
24" x 36"	1	2.5
30" x 24"	1	2.5
30" x 30"	1	2.5
36" x 12"	2	2.5
36" x 36" x 36"	2	2.5
30" x 36"	1	4.0

PANEL SIZE (W x H)	# OF POSTS	POST SIZE (LB/FT)
36" x 36"	2	2.5
36" x 48"	2	2.5
45" x 36"	2	2.5
48" x 24"	2	2.5
48" x 36"	2	2.5
48" x 48"	2	4.0
48" x 64" x 64"	2	2.5
60" x 36"	2	4.0
48" x 60"	2	4.0
60" x 30"	2	4.0

U-POST SELECTION TABLE
BREAKAWAY SIGN SUPPORT



STEEL U-POST GRADING DETAIL

GENERAL NOTES:

1. ALL POSTS TO BE OF ADEQUATE LENGTH TO MEET THE REQUIREMENTS FOR ERECTION AS STATED IN THE CURRENT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AND AS INDICATED BELOW.
2. ALL SMALL SIGN SUPPORTS TO BE OF THE BREAKAWAY TYPE WITH EXCEPTION OF THOSE INSTALLED BEHIND GUIDE RAIL OR OTHER ROADSIDE BARRIER.
3. ALL STEEL POSTS AND BRACKETS TO BE CUT, BENT, AND HOLES PUNCHED AND DRILLED BEFORE GALVANIZING. GALVINIZING TO BE ACCORDING TO ASTM A123.
4. ALL STEEL U-POST SIGN SUPPORTS MUST BE INSTALLED FACING THE PREDOMINANT TRAFFIC FLOW. USE A MOUNTING BRACKET ON SIDE MOUNTED SIGNS SUCH AS "ONE WAY" SIGNS INSTALLED IN MEDIANS.
5. SIGN PANEL SIZES ARE TO DETERMINE POST TYPE AND NUMBER AS SHOWN ON THIS DETAIL.
6. BOLTS ARE NOT TO PROTRUDE MORE THAN ¾" BEYOND THE NUT WHEN TIGHT, BUT ARE TO ENGAGE ALL THREADS IN THE NUT.
7. WHEN SIGNS ARE INSTALLED ON SLOPES 10H:1V OR FLATTER, THE MINIMUM VERTICAL CLEARANCE REQUIREMENTS FOR SIGNS ARE:

   FOR SINGLE POST INSTALLATIONS - THE MINIMUM DISTANCE BETWEEN THE EDGE OF THE PAVEMENT AND THE BOTTOM OF ANY PANEL MUST BE 7 FEET, AND THE MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO THE TOP OF ANY SIGN PANEL MUST BE 9 FEET.

   FOR MULTI-POST INSTALLATIONS - THE MINIMUM DISTANCE BETWEEN THE EDGE OF PAVEMENT AND THE BOTTOM OF A MAIN SIGN PANEL MUST BE 7 FEET.

   SECONDARY SIGN PANELS (LAND SERVICE HIGHWAYS) - THE MINIMUM DISTANCE BETWEEN THE EDGE OF PAVEMENT AND THE BOTTOM OF A SECONDARY SIGN PANEL IS 6 FEET.

   SECONDARY SIGN PANELS (INTERSTATE AND FREEWAYS) - THE BOTTOM OF THE MAIN SIGN TO BE A MINIMUM OF 8 FEET AND THE SECONDARY SIGN PANEL A MINIMUM OF 5 FEET ABOVE THE EDGE OF PAVEMENT.

   WHERE GRADING OF 10H:1V OR FLATTER CANNOT BE OBTAINED, OR WHERE CURB OR BERM IS GREATER THAN 4 INCHES, THE MINIMUM VERTICAL CLEARANCE WILL BE MEASURED FROM THE GROUND LINE TO THE BOTTOM OF THE SIGN.
8. THE HORIZONTAL OFFSET FROM EDGE OF PAVEMENT TO EDGE OF SIGN IS DERIVED FROM SECTION 2A.19 OF THE MUTCD AS FOLLOWS:

   FOR URBAN INSTALLATIONS - IN AREAS WHERE LATERAL OFFSETS ARE LIMITED, A MINIMUM LATERAL OFFSET OF 2 FEET IS DESIRABLE. A MINIMUM OFFSET OF 1 FOOT FROM THE FACE OF THE CURB MAY BE USED IN AREAS WHERE THE SIDEWALK WIDTH IS LIMITED OR WHERE EXISTING POLES ARE CLOSE TO THE CURB.

   FOR RURAL INSTALLATIONS - 6 FEET MINIMUM DESIRABLE FROM EDGE OF SHOULDER, BUT 12 FEET MINIMUM DESIRABLE FROM EDGE OF TRAFFIC OR AUXILIARY LANE.

   FOR INTERSTATE AND FREEWAY INSTALLATIONS - 6 FEET MINIMUM DESIRABLE FROM EDGE OF SHOULDER, BUT NOT LESS THAN 12 FEET FROM THE EDGE OF TRAFFIC OR AUXILIARY LANE.

   FOR RAMP INSTALLATIONS - 6 FEET MINIMUM FROM EDGE OF ROAD.

   WHERE BEHIND GUIDE RAIL - 4 FEET MINIMUM FROM BACK OF BEAM GUIDE RAIL ELEMENT TO SIGN POST.
9. DO NOT INSTALL PERMANENT SIGN SUPPORTS ON SLOPES GREATER THAN 10H:1V, EXCEPT WHERE GRADING OF 10H:1V CANNOT BE OBTAINED OR THE SIGN SUPPORTS WILL BE BEHIND A TRAFFIC BARRIER. THE SLOPE IS TO EXTEND A MINIMUM OF 3 FEET BEYOND THE OUTSIDE EDGE OF SIGN (SEE GRADING DETAIL FOR SLOPE TREATMENT).
10. EXTRUDED ALUMINUM SIGN PANELS ARE NOT PERMITTED FOR USE WITH STEEL U-POST SIGN SUPPORTS.
11. DO NOT PLACE STEEL U-POST SIGN SUPPORTS IN FRONT OF GUIDE RAIL AND THE POSTS MUST NOT STRADDLE GUIDE RAIL.
12. TO EXTEND THE HEIGHT OF A SIGN POST, A MAXIMUM OF ONE SPLICE MAY BE MADE AND MUST BE A MINIMUM OF 9 FEET FROM THE GROUNDLINE TO CENTER LINE OF SPLICE.

STEEL U-POST SIGN SUPPORTS

N.T.S.

CD-612-4

NEW JERSEY DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

CD-612-4.1

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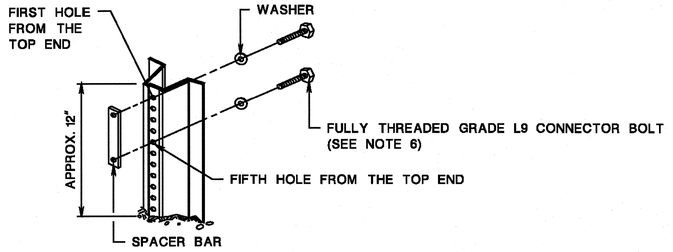
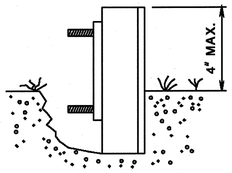
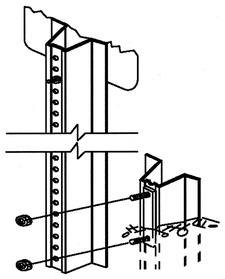


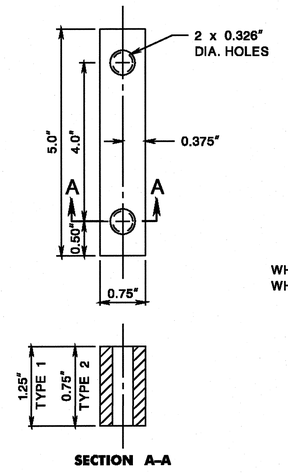


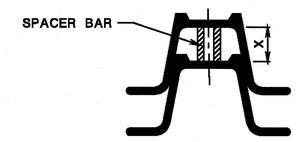


NOTES:

1. DRIVE ANCHOR POST ASSEMBLY TO WITHIN APPROXIMATELY 12 INCHES ABOVE GROUND LEVEL. PLACE BOLT AND WASHER IN FIRST AND FIFTH HOLES FROM THE TOP END, AND SECURE BOLTS ONTO SPACER.
2. DRIVE ANCHOR POST ASSEMBLY TO WITHIN A MAXIMUM OF 4 INCHES ABOVE GROUND LEVEL.
3. DIG OUT AROUND BACK OF ANCHOR POST ASSEMBLY TO ALLOW ROOM FOR TOP POST TO BE ATTACHED.
4. NEST TOP POST ASSEMBLY ONTO PROTRUDING ANCHOR POST ASSEMBLY BOLTS, THROUGH THE FIRST AND FIFTH HOLES FROM THE BOTTOM OF THE TOP POST.
5. PLACE AND TIGHTEN A SELF-LOCKING FLANGE NUT ON EACH BOLT. WHEN INSTALLATION IS COMPLETE, TOP OF GROUND POST NOT TO EXCEED 4 INCHES ABOVE GROUND LEVEL.
6. SIZE OF CONNECTOR BOLT FOR TYPE 1, 5/16" x 1½"
   SIZE OF CONNECTOR BOLT FOR TYPE 2, 5/16" x 2"
7. THE CONNECTOR BOLTS ARE TO BE FULLY THREADED. EACH CONNECTOR BOLT AND NUT TO BE CLEARLY STAMPED WITH MANUFACTURER'S IDENTIFYING MARK.

ANCHOR POST ASSEMBLY SIGN SUPPORTS





WHEN X IS GREATER THAN 0.75", USE TYPE 1 SPACER BAR
WHEN X IS 0.75" OR LESS, USE TYPE 2 SPACER BAR

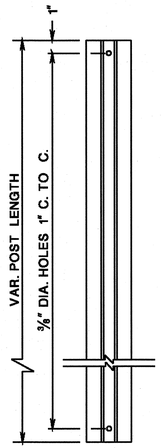
SPACER BAR

CD-612-5.1

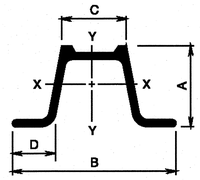
WEIGHT * LBS./FT.	DIMENSIONS (IN)				AREA IN.²	X-X AXIS **		Y-Y AXIS	
	"A"	"B"	"C"	"D"		I(IN.⁴)	S(IN.³)	I(IN.⁴)	S(IN.³)
2.50	1.516	3.062	1.278	0.669	0.760	0.228	0.313	0.539	0.352
4.00	1.968	3.500	1.336	0.834	1.187	0.611	0.707	1.161	0.664

* ± 5%
** GOVERNING SECTION

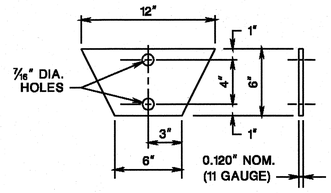
TYPE 1 STEEL U-POST PROPERTIES



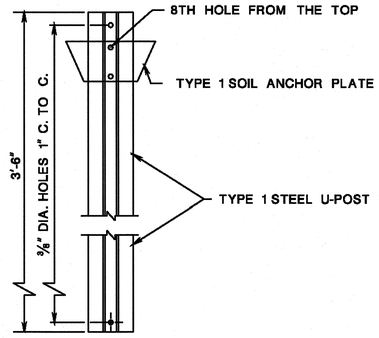
TOP POST U-POST



TYPE 1 STEEL U-POST



TYPE 1 SOIL ANCHOR PLATE



TYPE 1 ANCHOR POST ASSEMBLY

NOTES:

1. ANCHOR POST AND TOP POST TO BE OF EQUAL WEIGHT / FEET.
2. SOIL ANCHOR PLATE TO BE ATTACHED TO ALL ANCHOR POSTS.
3. THE MATERIAL FOR THE SOIL ANCHOR PLATES TO BE CARBON SHEET STEEL.
4. THE STEEL "U" POST TO BE GRADE 60.

CD-612-5.2

STEEL U-POST SIGN SUPPORTS

N.T.S.

CD-612-5

NEW JERSEY DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

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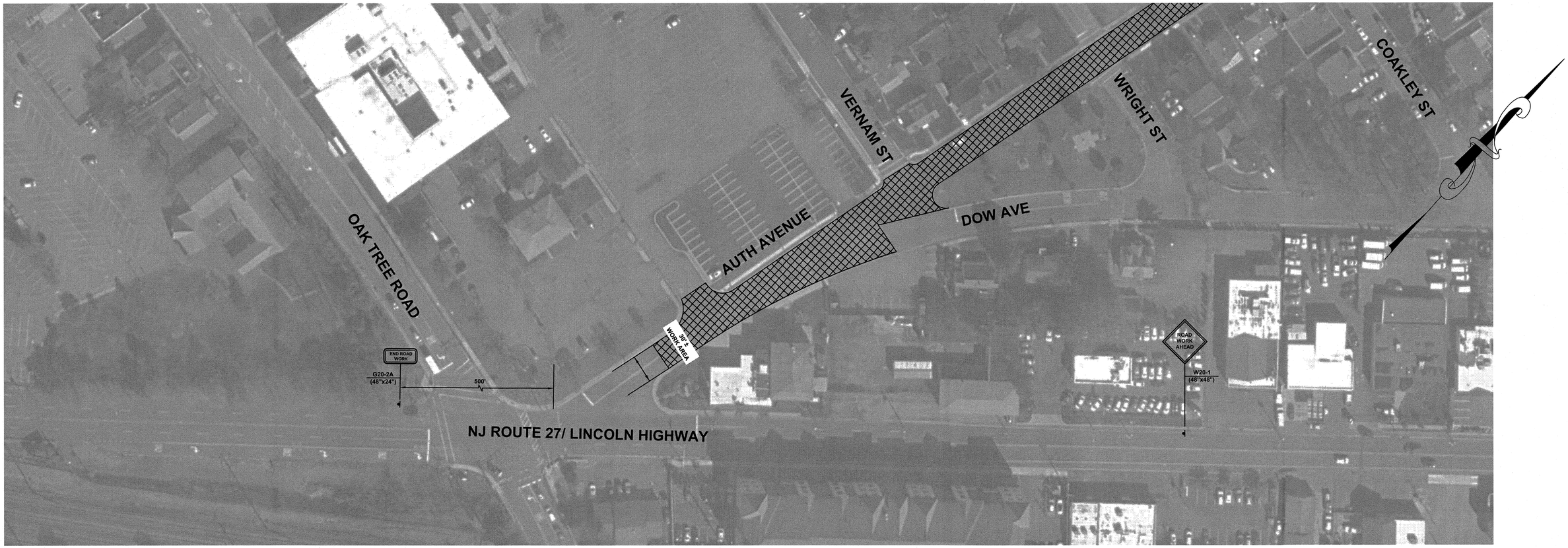


LEGEND

- BREAKAWAY BARRICADES
- BREAKAWAY BARRICADES WITH SIGN
- CONSTRUCTION SIGNS
- DRUMS
- DIRECTION OF TRAFFIC FLOW
- FLAGGER
- TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION AND ARROW BOARD SHOWING ARROW PATTERN (LEFT)
- BUFFER ZONE
- WORK AREA

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 50 ft.

CONSTRUCT

24 SF Construction signs

NOTE:
TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN CONFORMANCE WITH MUTCD REGARDING NIGHT TIME OPERATIONS.

NOTE:
THE CONTRACTOR IS SPECIFICALLY DIRECTED TO TCD OF THE NJDOT STANDARD CONSTRUCTION DETAILS.

NOTE:
THE CONTRACTOR MUST MAINTAIN ACCESS TO ALL PROPERTIES AT ALL TIMES DURING CONSTRUCTION.

No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED	RELEASED

TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

AUTH AVENUE AND NJ ROUTE 27 TRAFFIC CONTROL PLAN

WARD 4

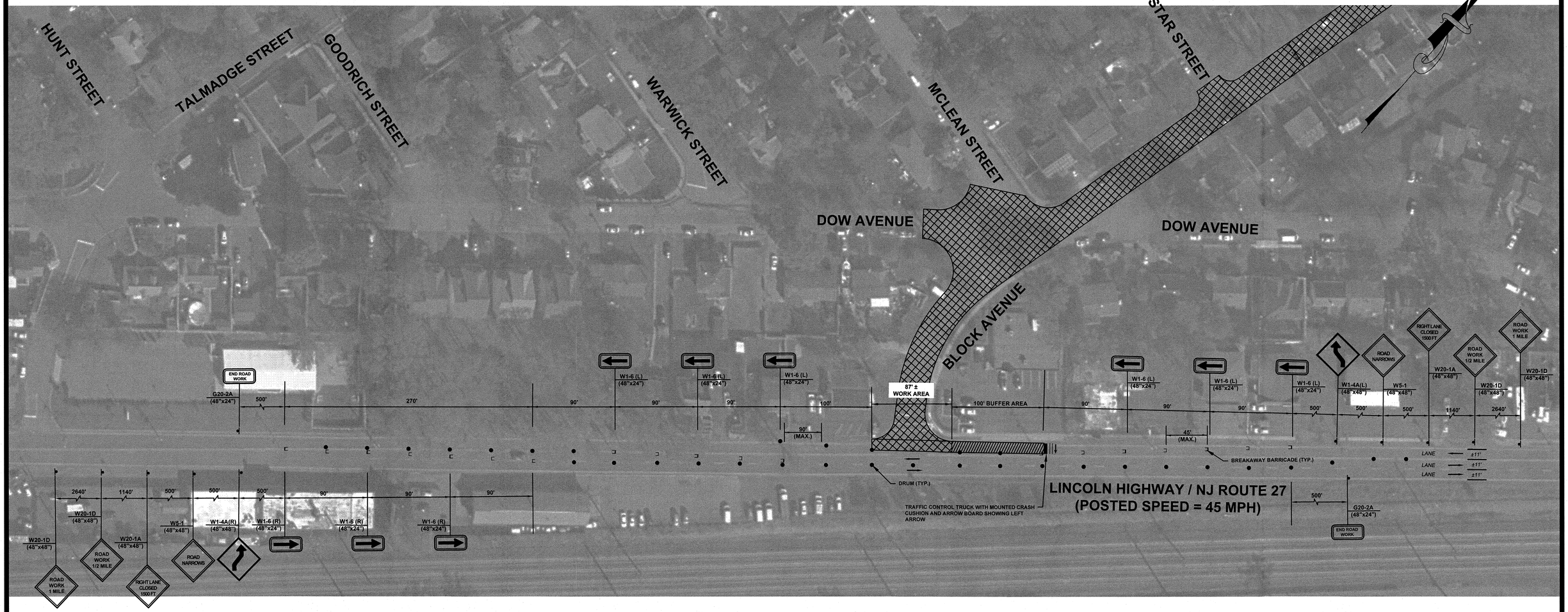
CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28259000
(732) 727 8000 (732) 462 7400
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

REGISTER NO. FILE NO. PWB0A615.01

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	DATE	DRAWING NUMBER
As Shown	May 2024	TCP-1
DRAWN BY OT	DESIGNED BY OT	TCP-4
CHECKED BY GO	SHEET 73 of 77	

TOWNSHIP OF WOODBRIDGE | **COUNTY OF MIDDLESEX**



LEGEND

- BREAKAWAY BARRICADES
- BREAKAWAY BARRICADES WITH SIGN
- CONSTRUCTION SIGNS
- DRUMS
- DIRECTION OF TRAFFIC FLOW
- FLAGGER
- TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION AND ARROW BOARD SHOWING ARROW PATTERN (LEFT)
- BUFFER ZONE
- WORK AREA

CONSTRUCT

20	UN	Breakaway Barricade
248	SF	Construction signs
33	UN	Drum
1	UN	Traffic control truck with mounted crash cushion
1	UN	Flashing arrow board, 4' x 8'

GRAPHIC SCALE

50 0 15 30 60 120

(IN FEET)
1 inch = 50 ft.

NOTE:
TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN CONFORMANCE WITH MUTCD REGARDING NIGHT TIME OPERATIONS.

NOTE:
THE CONTRACTOR IS SPECIFICALLY DIRECTED TO TCD OF THE NJDOT STANDARD CONSTRUCTION DETAILS.

NOTE:
THE CONTRACTOR MUST MAINTAIN ACCESS TO ALL PROPERTIES AT ALL TIMES DURING CONSTRUCTION.

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TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

BLOCK AVENUE AND NJ ROUTE 27 TRAFFIC CONTROL PLAN

WARD 4

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28039000
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 (732) 727 8000
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194 (732) 462 7400

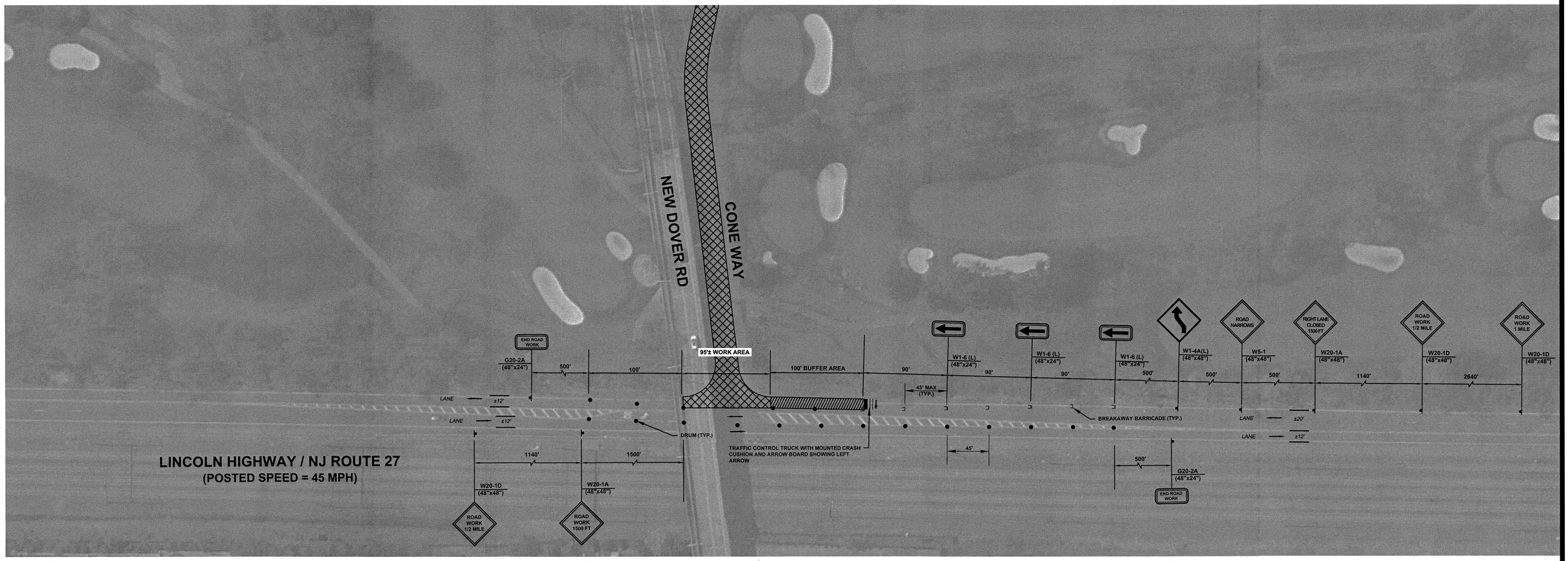
GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE: 5.15.24

REGISTER NO.
FILE NO. PWB0A615.01

SCALE	DATE	DRAWING NUMBER
As Shown	May 2024	TCP-2
DRAWN BY: OT	DESIGNED BY: OT / PD	TCP-4
CHECKED BY: GO	SHEET: 74 of 77	

TOWNSHIP OF WOODBRIDGE

COUNTY OF MIDDLESEX



LINCOLN HIGHWAY / NJ ROUTE 27
(POSTED SPEED = 45 MPH)

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 50 ft.

LEGEND

- BREAKAWAY BARRICADES
- BREAKAWAY BARRICADES WITH SIGN
- CONSTRUCTION SIGNS
- DRUMS
- DIRECTION OF TRAFFIC FLOW
- FLAGGER
- TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION AND ARROW BOARD SHOWING ARROW PATTERN (LEFT)
- BUFFER ZONE
- WORK AREA

CONSTRUCT

8	UN	Breakaway Barricade
152	SF	Construction signs
18	UN	Drum
1	UN	Traffic control truck with mounted crash cushion
1	UN	Flashing arrow board, 4' x 8'

TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN CONFORMANCE WITH MUTCD REGARDING NIGHT TIME OPERATIONS.

THE CONTRACTOR IS SPECIFICALLY DIRECTED TO TCD OF THE NJDOT STANDARD CONSTRUCTION DETAILS.

THE CONTRACTOR MUST MAINTAIN ACCESS TO ALL PROPERTIES AT ALL TIMES DURING CONSTRUCTION.

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TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONE WAY AND NJ ROUTE 27 TRAFFIC CONTROL PLAN

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
(732) 727 8000 (732) 462 7400
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

REGISTER NO. FILE NO. PWB0A615.01

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	DATE
As Shown	May 2024
DRAWN BY	DESIGNED BY
OT	OT
CHECKED BY	SHEET
GMO	75 of 77

DRAWING NUMBER TCP-3 / TCP-4

TOWNSHIP OF WOODBRIDGE | **COUNTY OF MIDDLESEX**

LEGEND

- BREAKAWAY BARRICADES
- BREAKAWAY BARRICADES WITH SIGN
- CONSTRUCTION SIGNS
- DRUMS
- DIRECTION OF TRAFFIC FLOW
- FLAGGER
- TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION AND ARROW BOARD SHOWING ARROW PATTERN (LEFT)
- BUFFER ZONE
- WORK AREA

CONSTRUCT

19	UN	Breakaway Barricade
250	SF	Construction signs
7	UN	Drum
1	UN	Traffic control truck with mounted crash cushion
1	UN	Flashing arrow board, 4' x 8'

GRAPHIC SCALE

50 0 25 50 100 150

(IN FEET)

1 inch = 50 ft.

NOTE:
TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN CONFORMANCE WITH MUTCD REGARDING NIGHT TIME OPERATIONS.

NOTE:
THE CONTRACTOR IS SPECIFICALLY DIRECTED TO TCD OF THE NJDOT STANDARD CONSTRUCTION DETAILS.

NOTE:
THE CONTRACTOR MUST MAINTAIN ACCESS TO ALL PROPERTIES AT ALL TIMES DURING CONSTRUCTION.

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TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

TAPPEN STREET AND US ROUTE 1&9 — TRAFFIC CONTROL PLAN

CME ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
(732) 727 8000 (732) 462 7400
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

SCALE	As Shown
DATE	May 2024
DRAWN BY	AW
DESIGNED BY	AW/PD
CHECKED BY	GO
SHEET	76 of 77

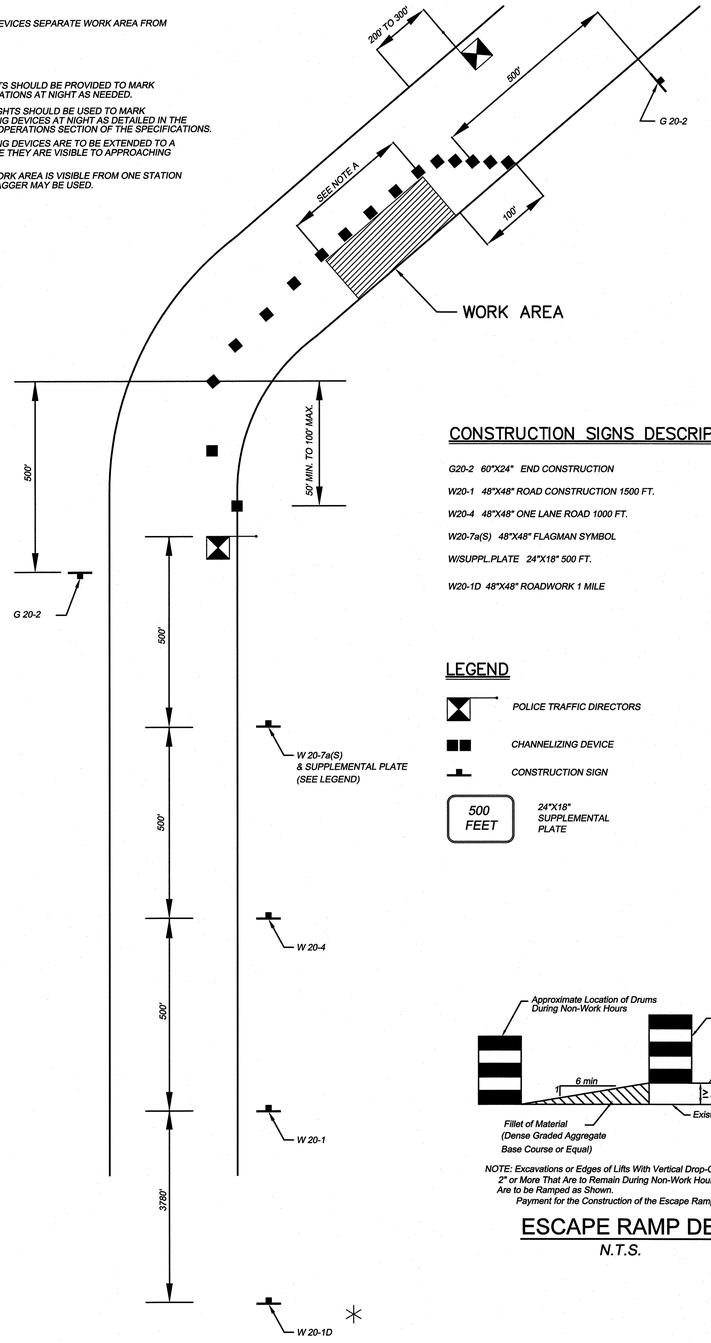
REGISTER NO. PW80A615.01
DRAWING NUMBER TCP-4
TCP-4

NOTE A:

CHANNELIZING DEVICES SEPARATE WORK AREA FROM TRAVELED WAY

NOTE:

1. *FLOOD LIGHTS SHOULD BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT AS NEEDED.*
2. *WARNING LIGHTS SHOULD BE USED TO MARK CHANNELIZING DEVICES AT NIGHT AS DETAILED IN THE NIGHT TIME OPERATIONS SECTION OF THE SPECIFICATIONS.*
3. *CHANNELIZING DEVICES ARE TO BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.*
4. *IF ENTIRE WORK AREA IS VISIBLE FROM ONE STATION A SINGLE FLAGGER MAY BE USED.*



MINIMUM REQUIREMENTS FOR TEMPORARY LANE CLOSURE

WARNING SIGN SEQUENCE IN OPPOSITE DIRECTION SAME AS BELOW

CONSTRUCTION SIGNS DESCRIPTION:

G20-2 60"X24" END CONSTRUCTION

W20-1 48"X48" ROAD CONSTRUCTION 1500 FT.

W20-4 48"X48" ONE LANE ROAD 1000 FT.

W20-7a(S) 48"X48" FLAGMAN SYMBOL

W/SUPPL.PLATE 24"X18" 500 FT.

W20-1D 48"X48" ROADWORK 1 MILE

LEGEND

POLICE TRAFFIC DIRECTORS

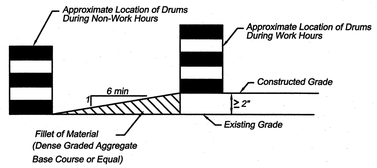
CHANNELIZING DEVICE

CONSTRUCTION SIGN

500 FEET — *24"X18" SUPPLEMENTAL PLATE*

W20 - 1D

✳ THIS SIGN SHOULD BE INSTALLED FOR ROADS WITH A SPEED LIMIT OF 45 M.P.H. OR GREATER.



NOTE: Excavations or Edges of Lifts With Vertical Drop-Offs of 2" or More That Are to Remain During Non-Work Hours Are to be Ramped as Shown. Payment for the Construction of the Escape Ramp.

ESCAPE RAMP DETAIL

N.T.S.

TRAFFIC CONTROL COORDINATION:

1. PRIOR TO THE START OF CONSTRUCTION, THE ENGINEER SHALL BE NOTIFIED OF THE SINGLE SUPERVISORY LEVEL INDIVIDUAL, TRAINED IN THE PRINCIPLES OF SAFE TRAFFIC CONTROL, WHO, ALONG WITH THE DIRECTION OF THE POLICE DEPARTMENT'S TRAFFIC SAFETY DIVISION, WILL BE ASSIGNED THE RESPONSIBILITY AND AUTHORITY FOR THE IMPLEMENTATION AND MAINTENANCE OF THE TRAFFIC CONTROL.
2. THE PERSON ASSIGNED SHALL MAKE A CHECK OF ALL TRAFFIC CONTROL DEVICES IN USE ON THE ENTIRE PROJECT AT LEAST TWICE A DAY ON WORKING DAYS AND ONCE A DAY ON NON-WORKING DAYS. CONTRACTOR SHALL FILE THE NAME AND TELEPHONE NUMBER OF THE PERSON ASSIGNED TO PROVIDE SERVICES.

TRAFFIC CONTROL DEVICES:

1. TRAFFIC CONTROL DEVICES SHALL BE KEPT CLEAN AND MAINTAINED IN GOOD CONDITION INCLUDING REPLACEMENT IF LOST, STOLEN, OR DAMAGED UNTIL NO LONGER REQUIRED FOR THE PROJECT. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE DETAILS SHOWN ON THE PLANS, SUPPLEMENTARY SPECIFICATIONS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND STANDARD DETAILS FOR TRAFFIC CONTROL DEVICES AS DEVELOPED BY THE NEW JERSEY DEPARTMENT OF TRANSPORTATION.
2. TRAFFIC CONTROL DEVICES SHALL ALSO BE PLACED AS DIRECTED BY THE ENGINEER TO PROVIDE TRAFFIC CONTROL FOR PERSONNEL DOING INSPECTIONS, SAMPLING, TESTING, OR TAKING MEASUREMENTS REQUIRED FOR THE PROJECT.

CONSTRUCTION SIGNS:

1. CONSTRUCTION SIGNS SHALL BE INSTALLED BY THE CONTRACTOR AS REQUIRED BY THE M.U.T.C.D. AND THE POLICE DEPARTMENT AS THE FIRST ORDER OF WORK FOR CONSTRUCTION SIGNS FOR PROJECTS AND SHALL BE MAINTAINED SO AS TO PROVIDE MAXIMUM VISIBILITY AND LEGIBILITY AT ALL TIME.
2. WHEN CONSTRUCTION SIGNS CONFLICT WITH EXISTING SIGNS, THE EXISTING SIGN SHALL BE COVERED. WHEN CONSTRUCTION SIGNS ARE NO LONGER REQUIRED, THEY SHALL BE REMOVED. IF THEY ARE TEMPORARILY NOT REQUIRED, SUCH AS OVERNIGHT, THEY SHALL EITHER BE TEMPORARILY REMOVED OR COVERED.
3. EACH ADVANCE WARNING SIGN (W20-1) SHALL BE LIGHTED 24 HOURS A DAY WITH DUAL ALTERNATE FLASH HIGH INTENSITY WARNING LIGHTS OF EITHER THE STROBE OR INCANDESCENT TYPE AS SELECTED BY THE CONTRACTOR.

CONSTRUCTION STAGING PLAN:

1. THE CONSTRUCTION STAGING PLAN IS BASED ON THE MINIMUM REQUIREMENTS PROVIDED IN THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE CONTRACTOR SHALL WORK IN ACCORDANCE WITH THE PROVISIONS OF THE PLAN AND THE MUTCD AND SHALL ONLY DEVIATE FROM THE PLAN AFTER APPROVAL.
2. APPROVAL OF THE ENGINEER AND CONSENT OF THE LOCAL AUTHORITIES HAVING JURISDICTION SHALL FIRST BE OBTAINED FOR REROUTING TRAFFIC OVER DETOURS THAT ARE NOT SHOWN ON THE PLANS. ALL NECESSARY ARRANGEMENTS SHALL BE MADE WITH SUCH AUTHORITIES REGARDING THE ESTABLISHMENT, MAINTENANCE AND REPAIR OF SUCH DETOURS, THE REGULATION AND DIRECTION OF TRAFFIC THEREON, AND SIGNING. ADEQUATE DIRECTIONAL AND DETOUR SIGNS, ACCEPTABLE TO THE LOCAL AUTHORITIES, SHALL BE FURNISHED AND ERECTED AT THE LOCATIONS WHERE SUCH AUTHORITIES MAY DIRECT.
3. CONSTRUCTION STAGING PLANS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS – SECTION 159. IF A CONFLICT ARISES BETWEEN THE PLANS AND SPECIFICATIONS, THE SPECIFICATIONS SHALL GOVERN UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
4. ITEMS AND QUANTITIES SHOWN ARE INTENDED ONLY AS A GUIDE TO THE CONTRACTOR AND ARE SUGGESTED MINIMUMS FOR THE CLOSURE OF ONE LANE AND TWO LANES OF TRAFFIC.

SUGGESTED GENERAL SEQUENCE OF CONSTRUCTION

1. PROVIDE MINIMUM 24 HOUR ADVANCE NOTIFICATION TO THE LOCAL POLICE DEPARTMENT AND THE ENGINEER PRIOR TO MODIFICATION OF EXISTING TRAFFIC PATTERNS.
2. INSTALL "ADVANCE WARNING" SIGNS.
3. ESTABLISH DETOUR ROUTES, IF AND WHERE APPROVED BY THE ENGINEER AND/OR THE TRAFFIC SAFETY DIRECTOR, WHERE APPLICABLE.
4. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES AS APPLICABLE.
5. COMPLETE INSTALLATION OF IMPROVEMENTS.
6. REMOVE TEMPORARY TRAFFIC CONTROL DEVICES, DETOUR SIGNS AND "ADVANCE WARNING SIGNS".

GENERAL NOTES:

1. VEHICULAR AND PEDESTRIAN TRAFFIC IS TO BE MAINTAINED OVER THE EXISTING ROADWAYS AND INTO EXISTING DRIVEWAYS WITHIN THE SCOPE OF THE PROJECT AT ALL TIMES.
   TRAFFIC CONTROL IS TO BE COORDINATED WITH LOCAL AUTHORITIES.
2. FINAL RESPONSIBILITY FOR THE INSTALLATION OF ADEQUATE PRECAUTIONS AND FOR THE PROTECTION OF THE TRAVELING PUBLIC AND HIS OWN PERSONNEL, SHALL REST WITH THE CONTRACTOR.
3. ALTERNATE ONE-WAY TRAFFIC CONTROL MAY BE REQUIRED DURING CONSTRUCTION OPERATIONS. PERMISSION FOR COMPLETE STOPPAGE OF ONE DIRECTION OF TRAFFIC MUST BE OBTAINED FROM THE LOCAL POLICE AND THE ENGINEER AT LEAST THREE (3) DAYS PRIOR TO STOPPAGE. ALTERNATE ONE WAY TRAFFIC CONTROL WILL BE AFFECTED BY TWO UNIFORM TRAFFIC DIRECTORS, ONE AT EACH END OF THE WORK AREA. ALL TEMPORARY TRAFFIC LANES SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 11 FEET.
4. SITE FOR THE STORAGE OF EQUIPMENT AND MATERIALS DURING THE PROGRESS OF THE WORK SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.
5. COMPLIANCE WITH ALL PRESCRIBED SAFETY PRECAUTIONS CONTAINED HEREIN SHALL NOT RELIEVE THE CONTRACTOR OF HIS PRIMARY RESPONSIBILITY TO TAKE ALL NECESSARY MEASURES TO PROTECT AND SAFEGUARD THE PUBLIC NOR RELIEVE HIM OF ANY RESPONSIBILITIES DESCRIBED IN THE CONTRACT AGREEMENTS.
6. IF THE LOCAL POLICE DEPARTMENT NOTIFIES THE CONTRACTOR OR HIS SUPERINTENDENT OR THE ENGINEER OF ANY HAZARDOUS CONDITION OR VIOLATION OF TRAFFIC CONTROL IN THE WORK AREA REGULATIONS, ALL OPERATIONS SHALL BE IMMEDIATELY DISCONTINUED AND IMMEDIATE REMEDIAL ACTION SHALL BE TAKEN TO THE SATISFACTION OF THE LOCAL POLICE BEFORE WORK IS RESUMED. ALL COSTS INCURRED AS A RESULT OF SUCH ACTION SHALL BE BORNE BY THE CONTRACTOR WITHOUT RECOURSE AGAINST THE OWNER.
7. REDUCTION OF THE NUMBER OF LANES AVAILABLE FOR TRAFFIC OR REDUCTION OF EXISTING WIDTHS OF TRAVELED WAY WILL NOT BE PERMITTED UNTIL AFTER 9:00 A.M. AND SHALL BE REMOVED PRIOR TO 4:00 P.M. UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
8. WORK WHICH WILL INTERFERE WITH TRAFFIC OR RESTRICT THE WIDTH OF TRAVELED WAY AVAILABLE FOR TRAFFIC SHALL NOT BE PERFORMED ON SATURDAYS, SUNDAYS, OR LEGAL HOLIDAYS UNLESS OTHERWISE DIRECTED BY THE ENGINEER
9. PRIOR TO BEGINNING A SEASONAL SHUTDOWN OR ANY OTHER PROLONGED WORK STOPPAGE, OR WHEN WORK IS SUSPENDED BY THE ENGINEER, ALL EXCAVATED AREAS WITHIN THE TRAVELED WAY OR ADJACENT THERETO SHALL BE BROUGHT TO A GRADE COMPATIBLE WITH THE EXISTING TRAVELED WAY OR TO FINISHED GRADE, AS APPROVED.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE WITHIN THE PROJECT LIMITS UNTIL ACCEPTANCE. THIS MAINTENANCE SHALL CONSIST OF CONTINUOUS AND EFFECTIVE WORK PROSECUTED DAY BY DAY, WITH ADEQUATE EQUIPMENT AND FORCES TO THE END THAT THE ROADWAY IS KEPT IN SATISFACTORY CONDITION AT ALL TIMES.
11. IN THE CASE OF A CONTRACT REQUIRING THE PLACING OF A COURSE UPON A COURSE OF SUBGRADE PREVIOUSLY CONSTRUCTED, THE CONTRACTOR SHALL MAINTAIN THE PREVIOUS COURSE OF SUBGRADE DURING ALL CONSTRUCTION OPERATIONS.
12. THE CONTRACTOR SHALL BACKFILL ALL EXCAVATED AREAS WITHIN THE ROADWAY TO A GRADE COMPATIBLE WITH THE EXISTING TRAVELED WAY AT SUCH TIMES HE IS NOT ACTIVELY WORKING. THIS SHALL INCLUDE NIGHTS, WEEKENDS AND PERIODS OF SHUTDOWNS.
13. COMPETENT, TRAINED AND UNIFORMED TRAFFIC DIRECTORS SHALL BE EMPLOYED AT EVERY POINT WHERE CONTRACTOR'S EQUIPMENT IS WORKING IMMEDIATELY ADJACENT TO, OR IS ENTERING, LEAVING OR CROSSING ACTIVE TRAFFIC LANES. TRAFFIC DIRECTORS SHALL BE EMPLOYED CONTINUOUSLY FOR THE FULL TIME SUCH CONDITIONS EXIST AS DETERMINED BY THE ENGINEER.
14. THE USE OF UNIFORMED POLICE OFFICERS AS TRAFFIC DIRECTORS IS NOT A SPECIFIC REQUIREMENT OF THIS PROJECT. HOWEVER, SHOULD THEY BE DEEMED NECESSARY DUE TO IMPROPER ACTIONS OF THE CONTRACTOR'S TRAFFIC DIRECTORS OR SHOULD THE CONTRACTOR DESIRE THE ASSISTANCE OF UNIFORMED POLICE OFFICERS AS TRAFFIC DIRECTORS, THE POLICE TRAFFIC DIRECTORS SHALL BE OFF-DUTY POLICE OFFICERS FROM WITHIN THE MUNICIPALITY WHERE THE WORK IS BEING PERFORMED. POLICE TRAFFIC DIRECTORS SHALL BE LOCATED WHERE SHOWN ON THE PLANS OR AT SPECIFIC LOCATIONS DESIGNATED BY THE POLICE DEPARTMENT OR ENGINEER DURING CONSTRUCTION HOURS. THE MUNICIPALITY SHALL BE CONTACTED IN ORDER TO OBTAIN THE SERVICES OF POLICE TRAFFIC DIRECTORS AND THE NAME, ADDRESS AND TELEPHONE NUMBER OF THEIR LOCAL REPRESENTATIVE.
15. THE OWNERS OF ADJOINING PROPERTIES SHALL BE GIVEN A WRITTEN NOTICE AT LEAST 3 DAYS PRIOR TO THE BEGINNING OF ANY WORK WHICH INTERFERES WITH THE OWNERS NORMAL PASSAGE.

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TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

2024 WOODBRIDGE ROAD PROGRAM

CONSTRUCTION STAGING PLAN

CVE ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
(732) 727 8000 (732) 462 7400
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859-1162 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731-1194

GARY M. OLIVA P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LIC. 47483
DATE 5.15.24

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