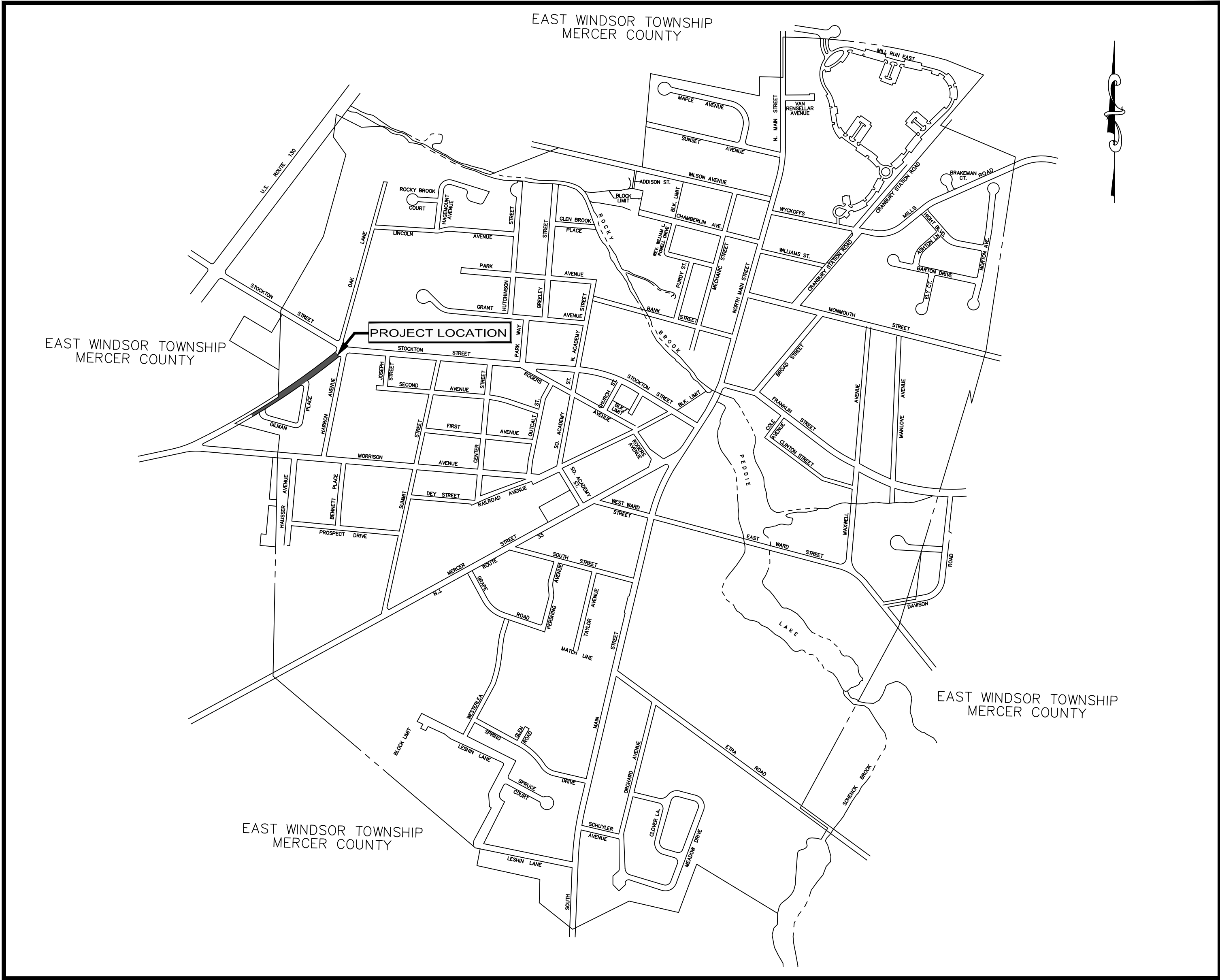
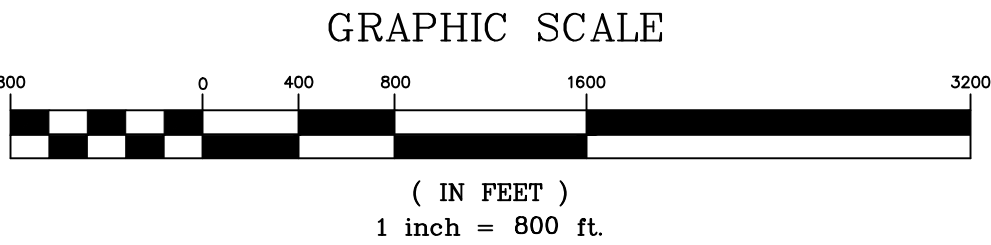


IMPROVEMENTS TO DUTCH NECK ROAD

BOROUGH OF HIGHTSTOWN, MERCER COUNTY, NEW JERSEY



KEY MAP
SCALE 1"=800'



PROJECT LENGTH = 910 LF

MAYOR
SUSAN BLUTH

MEMBERS OF COUNCIL
JOSEPH CICALESSE, COUNCIL PRESIDENT
CRISTINA FOWLER
TODD FRANTZ
JEET GULATI
FRED MONTFERRAT
STEPHANIE SPANN

SHEET INDEX

1	COVER
	DISTRIBUTION OF QUANTITIES
3-4	TRAFFIC CONTROL PLAN
5	SITE CONSTRUCTION PLAN
6-7	PLAN & PROFILE AND SOIL EROSION & SEDIMENT CONTROL PLAN
8-9	CONSTRUCTION DETAILS
10	SOIL EROSION AND SEDIMENT CONTROL DETAILS
11	SOIL EROSION AND SEDIMENT CONTROL NOTES

UTILITY SERVICE PROVIDERS

PSE&G	VERIZON
DENNIS GUNN	KEVIN HELLTHALER
300 CONNECTICUT DRIVE	1490 PROSPECT STREET, FLOOR 1
BURLINGTON, NJ 08016	TRENTON, NJ 08638
609-239-2405	609-637-4027

JERSEY CENTRAL POWER & LIGHT
GERALD M. RICCIARDI, AREA MANAGER
ONE RIVER CENTRE
331 NEWMAN SPRINGS ROAD, BLDG 3
RED BANK, NJ 07001
732-212-4106

BOROUGH OF HIGHTSTOWN WATER AND SEWER
KENNETH LEWIS, SUPERINTENDENT OF PUBLIC WORKS
STEVEN WHITE, SUPERINTENDENT OF ADVANCED WASTEWATER
TREATMENT PLANT
148 NORTH MAIN STREET
HIGHTSTOWN, NJ 08520
609-490-5100

CALL BEFORE YOU DIG
IN NJ, TOLL FREE
1-800-272-1000

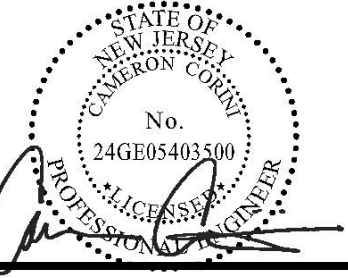
FOR FREE MARKOUTS TO LOCATE
UNDERGROUND UTILITIES

IT'S THE LAW

GARDEN STATE UNDERGROUND PLANT LOCATION SERVICE, INC.

NOTE:

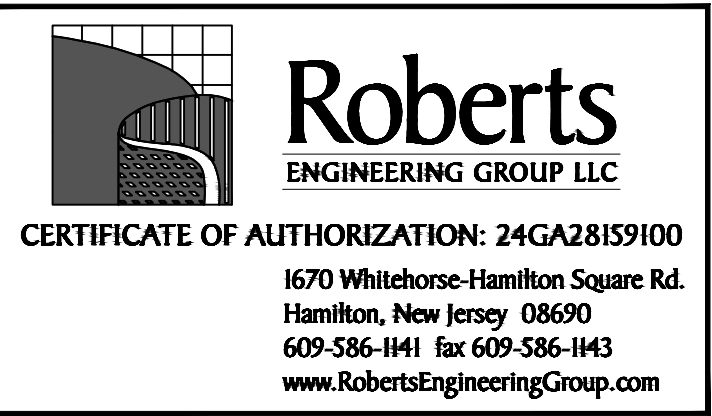
- A. THE NJDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2019, AS AMENDED BY SPECIAL PROVISIONS, TO GOVERN.
B. THE NJDOT STANDARD CONSTRUCTION DETAILS FOR ROADWAY, TRAFFIC CONTROL, AND BRIDGE BOOKLET (2016); AND THE NJDOT STANDARD ELECTRICAL DETAILS BOOKLET (2007), ARE APPLICABLE TO THIS PROJECT EXCEPT FOR THOSE DETAILS CONTAINED HEREIN.



CAMERON CORINI, P.E.

LICENSED PROFESSIONAL ENGINEER
STATE OF NEW JERSEY LIC. NO. 54035

IF THIS DOCUMENT DOES NOT CONTAIN A RAISED IMPRESSION
SEAL OF THE PROFESSIONAL IT IS NOT AN ORIGINAL



No.	DATE	REVISIONS	BY	CHECKED
3	07/16/26	BID SET	JB	CC
2	06/08/26	REVISE PER NJDOT PS&E COMMENTS DATED JUNE 3, 2026.	SK	CC
1	05/08/26	REVISE TRAFFIC CONTROL PER NJDOT REVIEW LETTER DATED MAY 4, 2026.	SK	CC

JOB NUMBER H1807

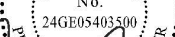
DATE: FEBRUARY 26, 2026
SHEET 1 OF 11

EXISTING

- PROPOSED

1. THIS PLAN REFLECTS EXISTING

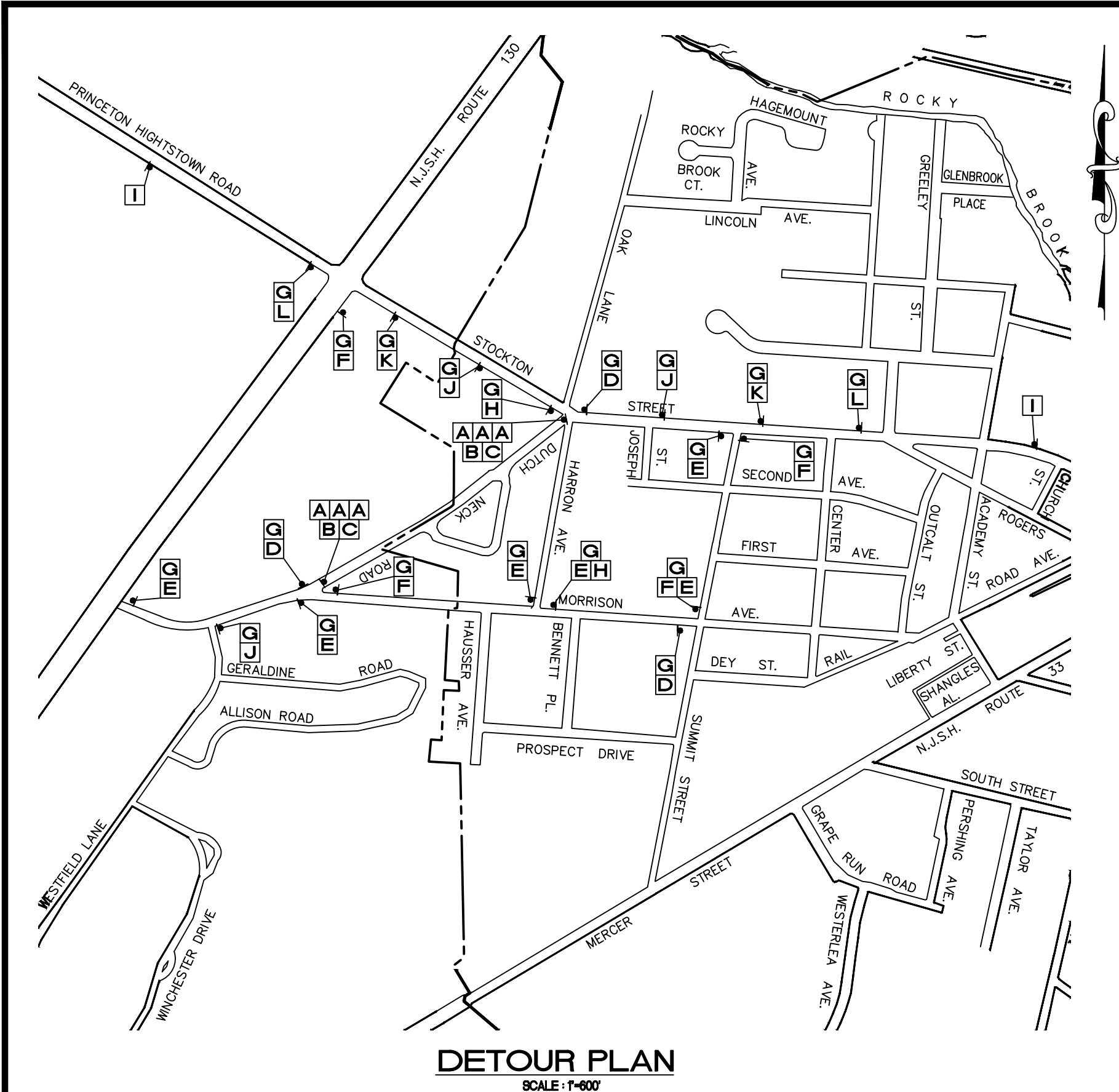
- CONSTRUCTION NOTES:


CAMERON CORINI, PE
LICENSED PROFESSIONAL ENGINEER
STATE OF NEW JERSEY LIC. No. 24GE05403500

1670 Whitehorse-Hamilton Square Rd
Hamilton, New Jersey 08690
609-586-1141 fax 609-586-1143
www.RobertsEngineeringGroup.com

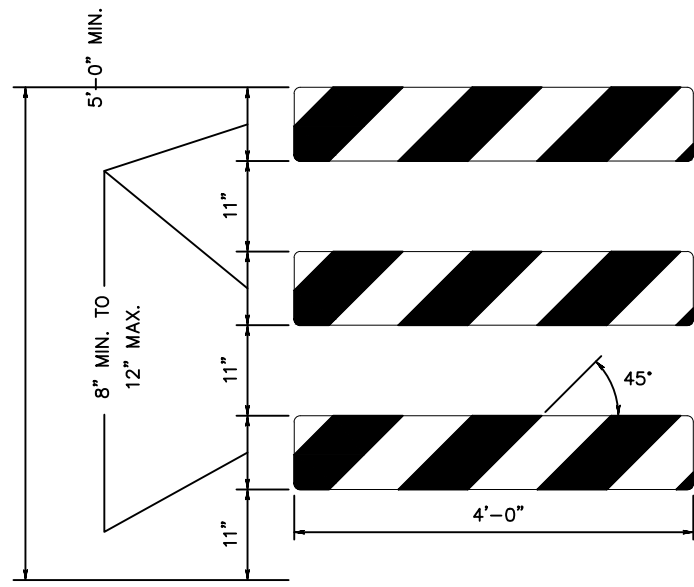
IMPROVEMENTS TO DUTCH NECK ROAD

FILE No.: H1807	DESIGNED BY: CC
DRAWN BY: SK/KP	CHECKED BY: CC
DATE: 2/26/2026	
SCALE: NONE	
DWG. No.: QT	
SHEET No.	



TRAFFIC CONTROL SIGNAGE

SIGN	DESIGN	TYPE	SIZE	No. REQUIRED
A		TYPE III LIST		6
B		R11-4	60" x 30"	2
C			72" x 60"	2
D		M4-9L	24" x 18"	3
E		M4-9R	24" x 18"	6
F		M4-8a	24" x 18"	4
G		M4-9N	30" x 18"	20
H		M4-9X	30" x 24"	2
I		W20-1D	48" x 48"	2
J		W20-2	48" x 48"	3
K		W20-3	48" x 48"	2
L		W20-3A	48" x 48"	2



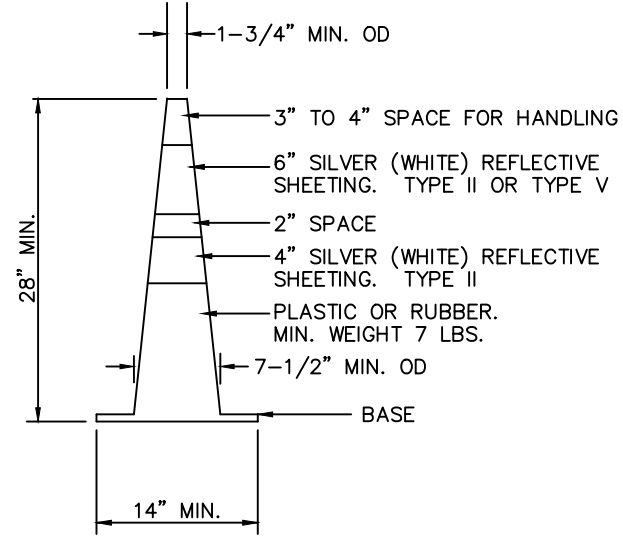
TYPE III BARRICADE - FRONT VIEW

- NOTES:
- ENSURE THE 8" MIN. x 48", TO 12" MAX. x 48" BARRICADE RAILS TO BE ATTACHED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.
 - 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.
 - THE FRAMING, RAILS, AND BALLAST FOR BREAKAWAY BARRICADE TO BE NCHRP-350 CRASHED TESTED AND FHWA APPROVED.
 - IF NECESSARY, FABRICATE THE BALLAST AND PLACE ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.

BREAKAWAY BARRICADES

NT&

TRAFFIC CONES SHALL BE PREDOMINANTLY ORANGE IN COLOR.



BASES MAY BE OF BREAKAWAY BALLASTED TYPE. MINOR MANUFACTURER'S VARIATIONS MAY BE ACCEPTABLE UPON APPROVAL OF THE ENGINEER.

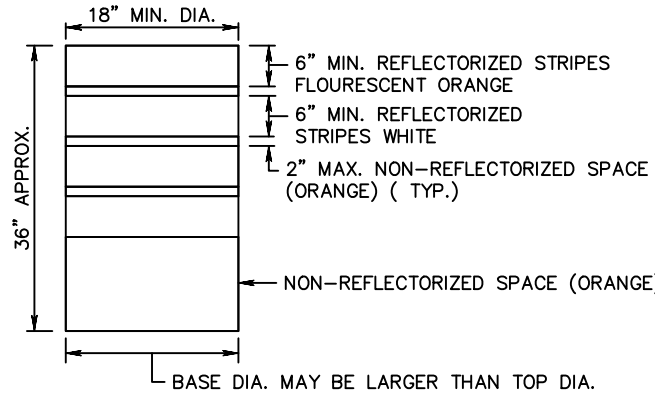
TRAFFIC CONES

NT&

DRUMS SHALL BE 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 SHALL BE NO MORE THAN 2" WIDE. RETROREFLECTIVE SHEETING FOR STRIPES SHALL CONFORM WITH ASTM D 4956 TYPE VII OR VIII WITH S2 REQUIREMENTS.

THE TOP OF THE DRUM SHALL NOT BE OPEN. DRUMS SHALL BE CONSTRUCTED TO INHIBIT ROLLING IF KNOCKED OVER.

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

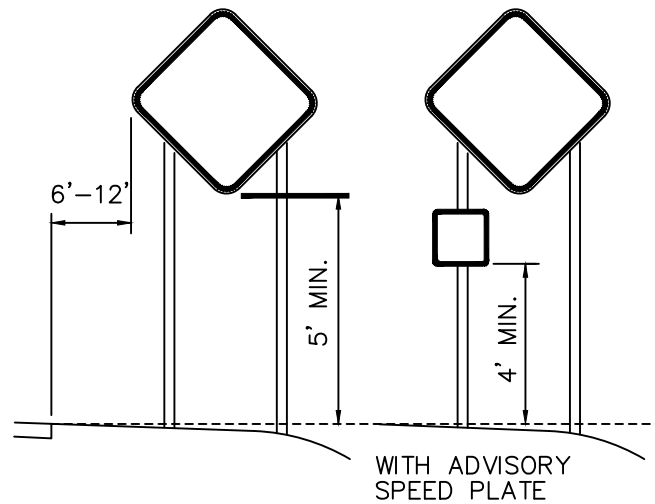


BASE DIA. MAY BE LARGER THAN TOP DIA.

WHEN BALLAST IS REQUIRED BY THE R.E., SAND SHALL BE USED. THE MAXIMUM WEIGHT OF THE BALLAST SHALL BE 50 LBS. AND BE LOCATED APPROXIMATELY AT GROUND LEVEL. ALTERNATE TYPES OF BALLAST SHALL BE APPROVED BY THE R.E..

DRUMS

NT&



SIGN PLACEMENT

NT&

CONSTRUCTION SEQUENCE

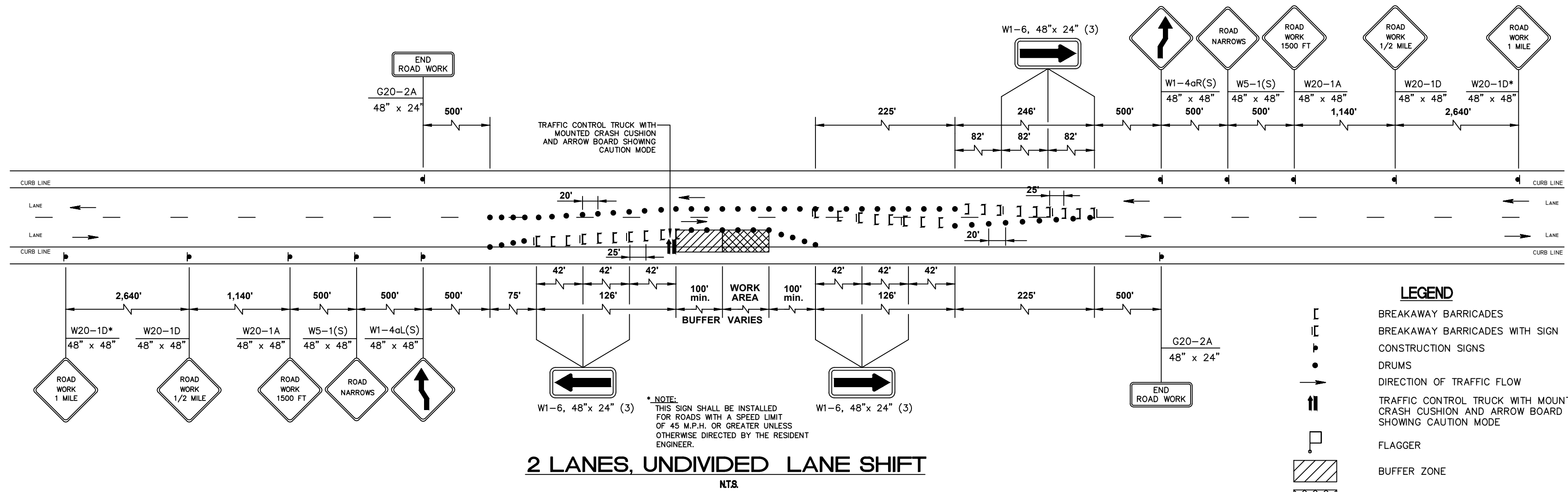
- INSTALL ADVANCE WARNING SIGNS A MINIMUM OF TWO (2) WEEKS PRIOR TO THE START OF CONSTRUCTION.
- INSTALL SIGNS, DRUMS, CONES AND TRAFFIC CONTROL DEVICES SHOWN ON THIS PLAN PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR TO HAVE THE NECESSARY TRAINED FLAGGERS ON SITE AT ALL TIMES. CONTRACT TO PROVIDE FLAGGER CERTIFICATIONS AT LEAST TWO (2) WEEKS PRIOR TO START OF CONSTRUCTION.
- POLICE AND THE ENGINEER TO APPROVE TRAFFIC CONTROL LAYOUT PRIOR TO THE START OF WORK.
- ALL WORKERS TO HAVE SAFETY VESTS AND FOLLOW SAFETY PROCEDURES AT ALL TIMES PRIOR TO PROCEEDING WITH CONSTRUCTION.
- LANE CLOSURE AND LANE SHIFTS ARE TO BE UTILIZED TO THE GREATEST EXTENT FEASIBLE, SUBJECT TO APPROVAL BY THE ENGINEER AND POLICE DEPARTMENT. LANE CLOSURE AND LANE SHIFTS SHALL BE IN ACCORDANCE WITH NJDOT REQUIREMENTS. CONTRACTOR SHALL PROVIDE CERTIFIED TRAFFIC FLAGGERS.
- DETOUR IS TO UTILIZED FOR MILLING AND PAVING PURPOSES.

REFERENCES:

- MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- HIGHTSTOWN BOROUGH TAX MAPS

GENERAL NOTES:

- THE CONTRACTOR IS TO INSPECT ALL TRAFFIC SIGNS EACH DAY TO ASSURE THAT THEY ARE PROPERLY LOCATED AND FUNCTIONING.
- ADDITIONAL BARRICADES AND SIGNS MAY BE REQUIRED AND SHALL BE PROVIDED AS DIRECTED BY THE ENGINEER OR POLICE DEPARTMENT.
- ALL SIGNS TO BE CONSTRUCTED OF ALUMINUM WITH HIGH INTENSITY REFLECTIVE COATINGS AND CONFORM TO THE CURRENT EDITION OF "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- ALL SIGN POSTS SHALL BE BREAKAWAY.
- THIS PLAN IS NOT VALID UNLESS EMBOSSED WITH THE SEAL OF THE UNDERSIGNED PROFESSIONAL(S).
- CONTRACTOR SHALL PROVIDE PROTECTION FOR THE GENERAL PUBLIC AND CONSTRUCTION WORKERS IN AND AROUND THE CONSTRUCTION AREAS, AND FOR THE ADJACENT PROPERTIES AND PERSONS. ADEQUATE BARRIERS SHALL BE PROVIDED TO EXERCISE CONTROL OF SAFE INGRESS AND EGRESS AT ALL ROADWAY INTERSECTIONS. THE CONTRACTOR SHALL BARRICADE ALL UNSAFE OR INJURIOUS CONDITIONS.
- THE CONTRACTOR SHALL ENSURE FREE AND SAFE PASSAGE OF PERSONS AROUND THE AREA OF CONSTRUCTION. ALL OPERATIONS SHALL BE CONDUCTED SO AS TO PREVENT DAMAGE TO ADJACENT BUILDINGS, STRUCTURES, AND OTHER FACILITIES, AS WELL AS INJURY TO PERSONS, BOTH PEDESTRIAN AND WORKER ALIKE.
- ACCESS TO PRIVATE PROPERTY TO BE MAINTAINED AT ALL TIMES.
- CONTRACTOR TO COORDINATE WITH EMERGENCY SERVICES (POLICE, FIRE, MEDICAL), WASTE DISPOSAL PICKUP, AND SCHOOL BUSSING TO ENSURE NO LOSS OF SERVICE.
- ALL ROADS WITHIN THE PROJECT AREA SHALL BE OPEN TO TWO-WAY TRAFFIC BETWEEN THE HOURS OF 3:00PM AND 9:00AM.
- CONSTRUCTION ADJACENT TO SCHOOLS SHALL BE COORDINATED WITH BOROUGH POLICE. IT IS ANTICIPATED THAT WORK HOURS MAY BE RESTRICTED NEAR SCHOOLS FOR SAFE PASSAGE OF PEDESTRIANS AND SCHOOL BUSES.
- ROAD CLOSURES, DETOURS, LANE SHIFTS, ECT. MAY BE IN PLACE ONLY AFTER 9 AM DAILY. DEVIATION FROM SCHEDULE WILL NOT BE TOLERATED DUE TO SCHOOL BUSSING SCHEDULE.

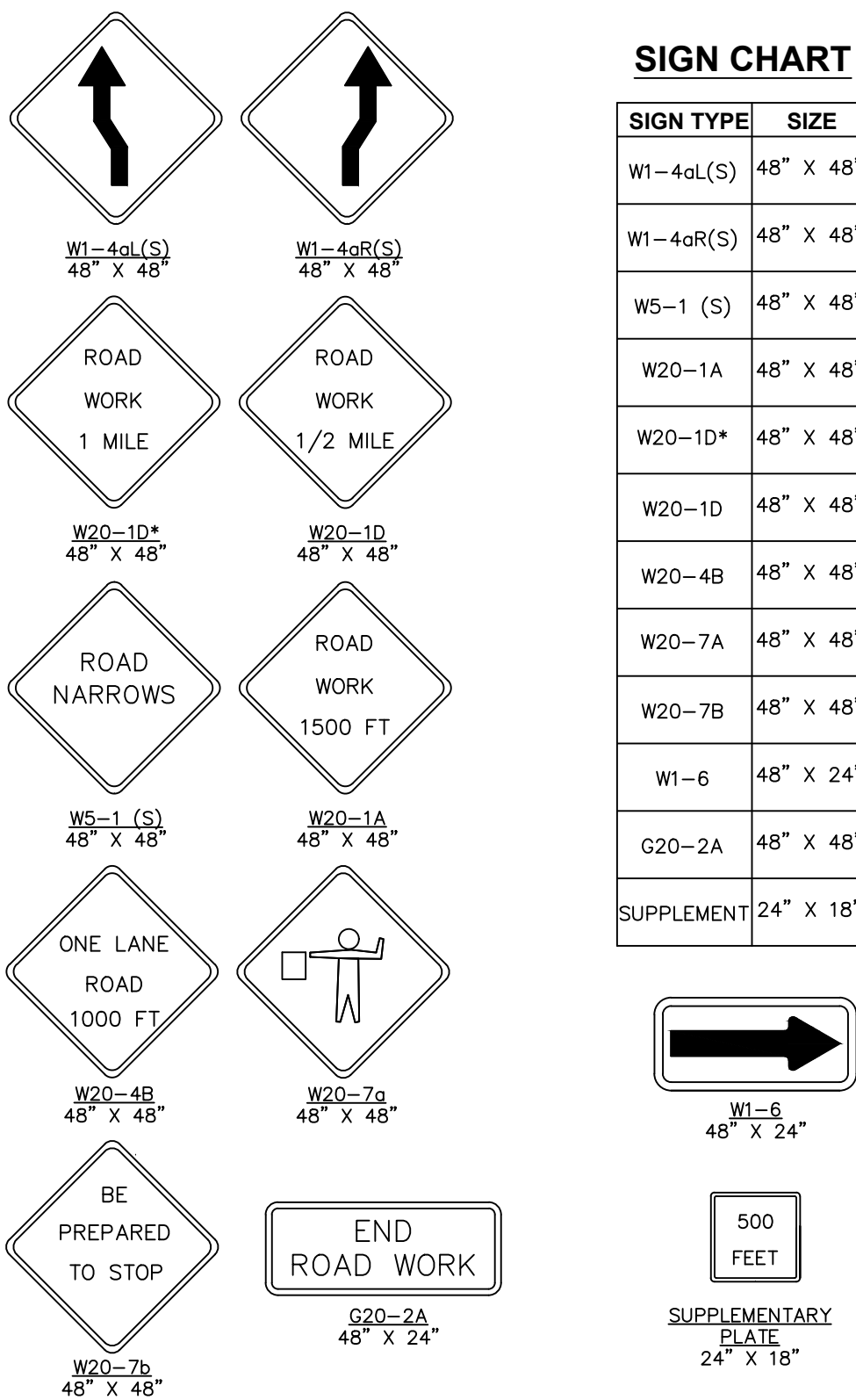


2 LANES, UNDIVIDED LANE SHIFT

NT&

LEGEND

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



SIGN CHART

SIGN TYPE	SIZE
W1-4aL(S)	48" x 48"
W1-4aR(S)	48" x 48"
W5-1 (S)	48" x 48"
W20-1A	48" x 48"
W20-1D*	48" x 48"
W20-1D	48" x 48"
W20-4B	48" x 48"
W20-7A	48" x 48"
W20-7B	48" x 48"
W1-6	48" x 24"
G20-2A	48" x 48"
SUPPLEMENTARY PLATE	24" x 18"

CONSTRUCTION SIGNAGE

NT&

Roberts
ENGINEERING GROUP LLC

CERTIFICATE OF AUTHORIZATION: 24GA2859100

1670 Whitehorse-Hamilton Square Rd.
Hamilton, New Jersey 08690
609-586-1141 fax 609-586-1143
www.RobertsEngineeringGroup.com

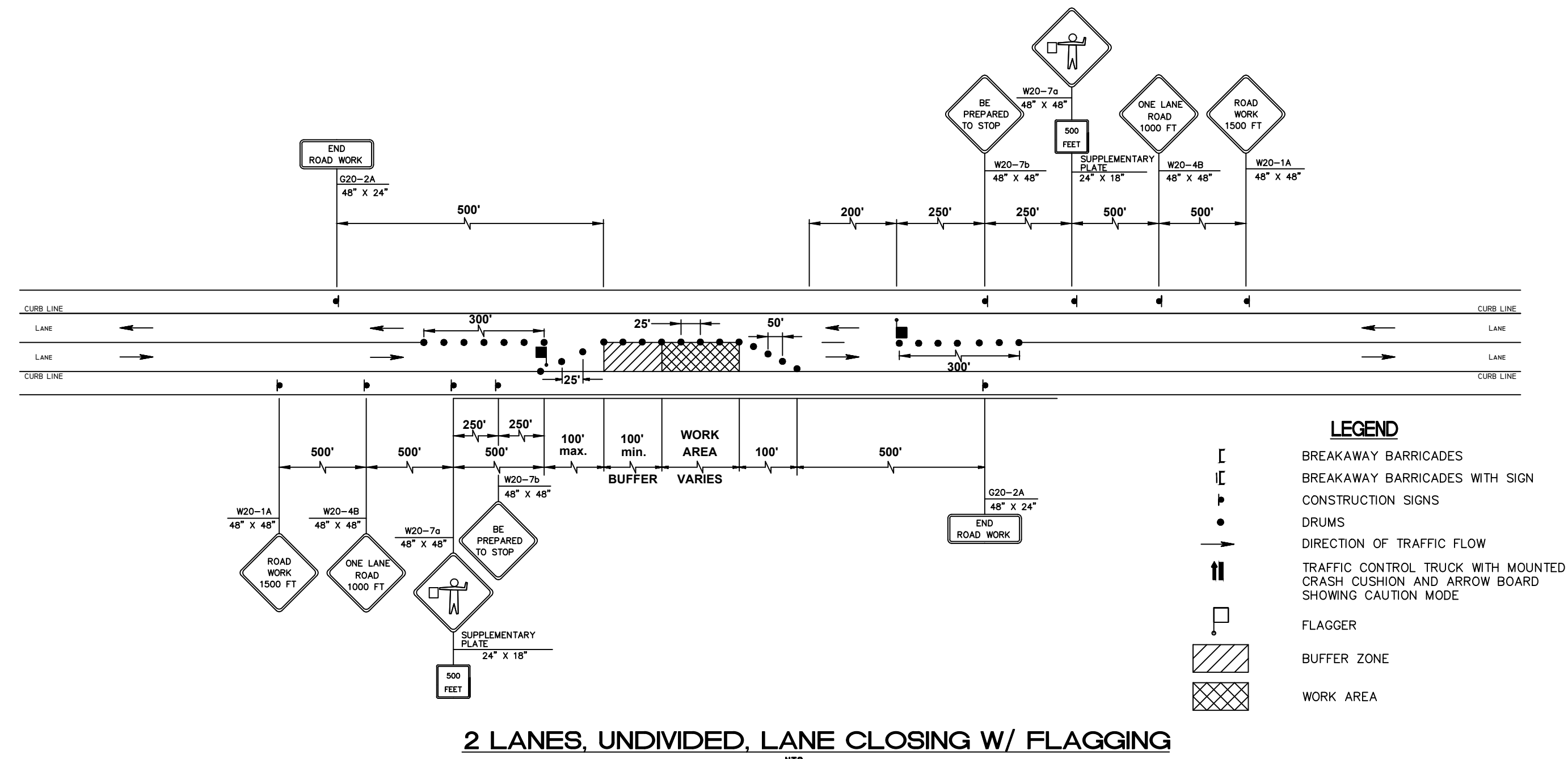
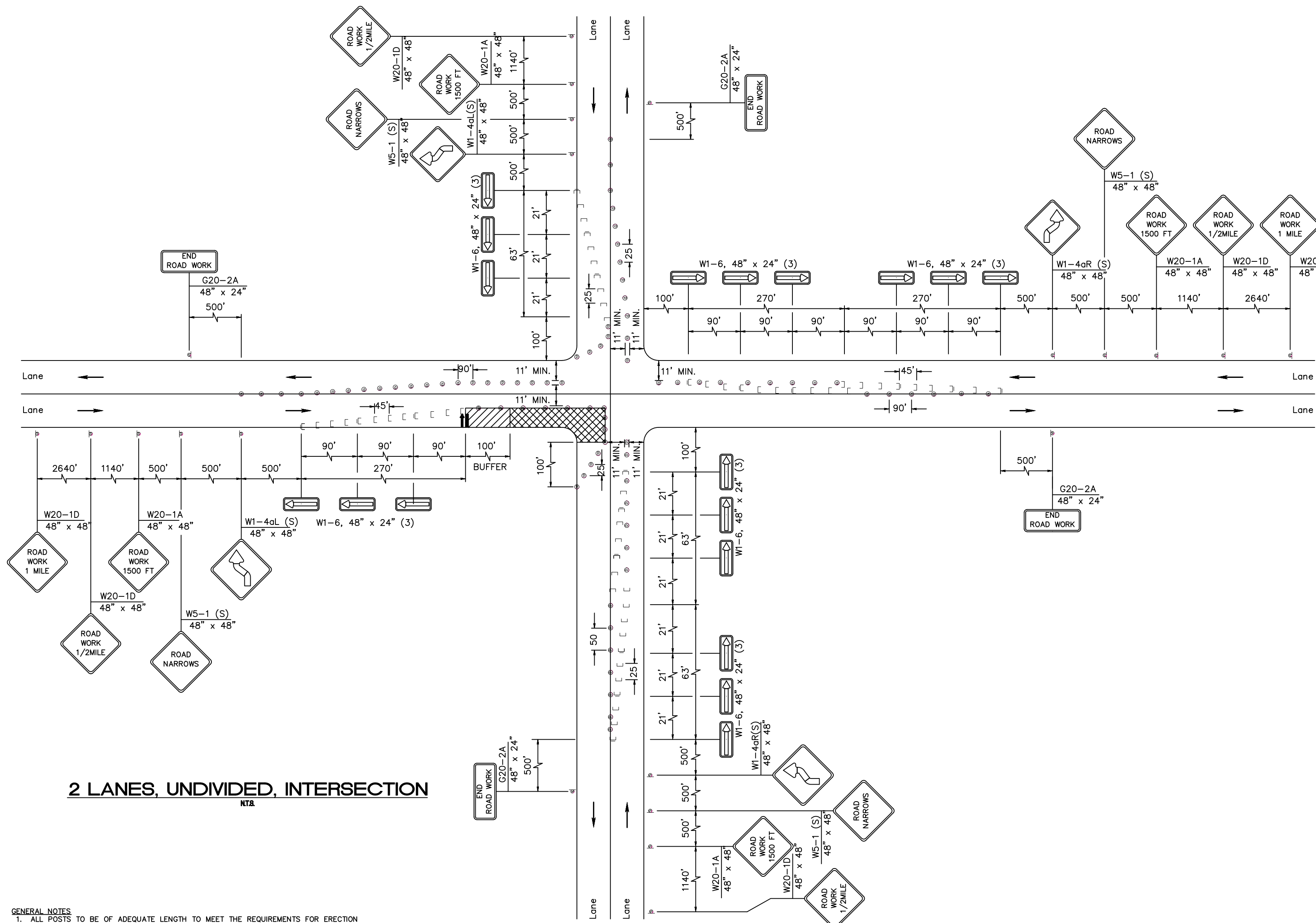
CAMERON CORINI, PE
LICENSED PROFESSIONAL ENGINEER
STATE OF NEW JERSEY LIC. No. 24GE05403500

TRAFFIC CONTROL PLAN

IMPROVEMENTS TO
DUTCH NECK ROAD

BOROUGH OF HIGHTSTOWN,
MERCER COUNTY, NEW JERSEY

FILE NO: H1807
DESIGNED BY: CC
DRAWN BY: SK/KP
CHECKED BY: CC
DATE: 2/26/2026
SCALE: As Shown
DWG. No.: TC1
SHEET No.



2 LANES, UNDIVIDED, INTERSECTION

NTA

GENERAL NOTES

- 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.
- ALL SMALL SIGN SUPPORTS TO BE OF THE BREAKAWAY TYPE WITH EXCEPTION OF THOSE INSTALLED BEHIND GUIDE RAIL OR OTHER ROADSIDE BARRIER.
- ALL STEEL POSTS AND BRACKETS TO BE CUT, BENT, AND HOLES PUNCHED AND DRILLED BEFORE GALVANIZING. GALVANIZING TO BE ACCORDING TO ASTM A123.
- 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 MEDIUM.
- SIGN PANEL SIZES ARE TO DETERMINE POST TYPE AND NUMBER AS SHOWN ON THIS DETAIL.
- BOLTS ARE NOT TO PROTRUDE MORE THAN 3/4" BEYOND THE NUT WHEN TIGHT, BUT ARE TO ENGAGE ALL THREADS IN THE NUT.
- WHEN SIGNS ARE INSTALLED ON SLOPES 10:1V 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 MULTIPLE 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 10:1V 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.
- THE HORIZONTAL OFFSET FROM THE 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.
- DO NOT INSTALL GUARD RAIL SIGN SUPPORTS ON SLOPES GREATER THAN 10:1V, EXCEPT WHERE GRADING OF 10:1V 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).
- EXTRUDED ALUMINUM SIGN PANELS ARE NOT PERMITTED FOR USE WITH STEEL U-POST SIGN SUPPORTS.
- DO NOT PLACE STEEL U-POST SIGN SUPPORTS IN FRONT OF GUIDE RAIL AND THE POSTS MUST NOT STRADDLE GUIDE RAIL.
- TO EXTEND THE HEIGHT OF A SIGN POST, A MAXIMUM OF ONE SPICE MAY BE MADE AND MUST BE A MINIMUM OF 9 FEET FROM THE GROUNDLINE TO CENTER LINE OF SPICE.

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TYPE 1 STEEL U-POST PROPERTIES

WEIGHT*	DIMENSIONS (IN)	AREA	X-X AXIS**	Y-Y AXIS
LBS. / FT.	"A" "B" "C" "D"	IN. ²	[IN. ⁴] [IN. ³] [IN. ²] [IN.]	[IN. ⁴] [IN. ³] [IN. ²] [IN.]
2.50	1.516 3.062 1.276 0.669	0.780	0.228 0.313 0.339 0.352	4.00 1.361 3.501 1.336 0.634 1.157 0.611 0.107 1.161 0.664

* 50K
** GOVERNING SECTION

TYPE 1 STEEL U-POST PROPERTIES

SECTION A-A

SPACER BAR

DETAIL OF BRACKET FOR SIDE MOUNTED SIGNS

SIDE MOUNT BRACKET

ANCHOR POST ASSEMBLY SIGN SUPPORTS

STEEL U-POST SIGN SUPPORTS

NTA

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LBS. / FT.	"A" "B" "C" "D"	IN. ²	[IN. ⁴] [IN. ³] [IN. ²] [IN.]	[IN. ⁴] [IN. ³] [IN. ²] [IN.]
2.50	1.516 3.062 1.276 0.669	0.780	0.228 0.313 0.339 0.352	4.00 1.361 3.501 1.336 0.634 1.157 0.611 0.107 1.161 0.664

* 50K
** GOVERNING SECTION

TYPE 1 STEEL U-POST PROPERTIES

SECTION A-A

SPACER BAR

DETAIL OF BRACKET FOR SIDE MOUNTED SIGNS

SIDE MOUNT BRACKET

ANCHOR POST ASSEMBLY SIGN SUPPORTS

STEEL U-POST SIGN SUPPORTS

NTA

TYPE 1 STEEL U-POST PROPERTIES

WEIGHT*	DIMENSIONS (IN)	AREA	X-X AXIS**	Y-Y AXIS
LBS. / FT.	"A" "B" "C" "D"	IN. ²	[IN. ⁴] [IN. ³] [IN. ²] [IN.]	[IN. ⁴] [IN. ³] [IN. ²] [IN.]
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STEEL U-POST SIGN SUPPORTS

NTA

Roberts
ENGINEERING GROUP LLC
CERTIFICATE OF AUTHORIZATION: 24GA2859100

CAMERON CORINI, PE
LICENSED PROFESSIONAL ENGINEER
STATE OF NEW JERSEY LIC. No. 24GE05403500

1670 Whitehorse-Hamilton Square Rd.
Hamilton, New Jersey 08690
609-586-1141 Fax 609-586-1143
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TRAFFIC CONTROL PLAN

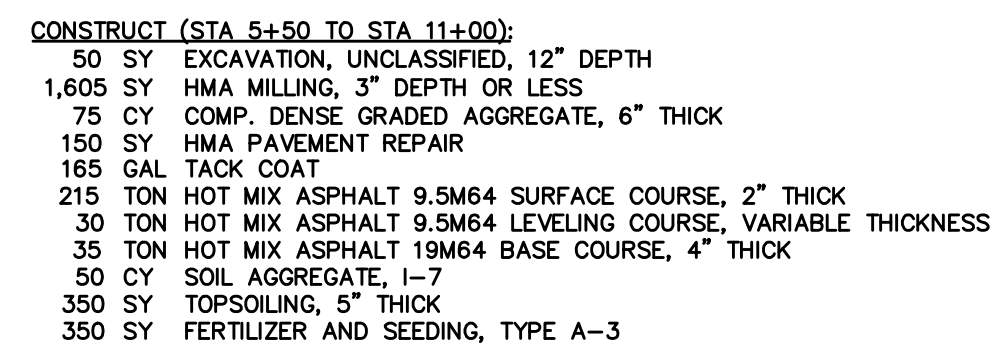
IMPROVEMENTS TO
DUTCH NECK ROAD

BOROUGH OF HIGHTSTOWN,
MERCER COUNTY, NEW JERSEY

FILE NO: H1807
DESIGNED BY: CC
DRAWN BY: SK/KP
CHECKED BY: CC
DATE: 2/26/2026
SCALE: As Shown
DWG. No.: TC2
SHEET No.

4 OF 11

NO.	DATE	REVISIONS	BY	CHECKED
3	07/16/26	BID SET		
2	06/08/26	REVISE PER NJDOT PS&E COMMENTS DATED JUNE 3, 2026.	SK	CC
1	05/08/26	REVISE TRAFFIC CONTROL PER NJDOT REVIEW LETTER DATED MAY 4, 2026.	SK	CC

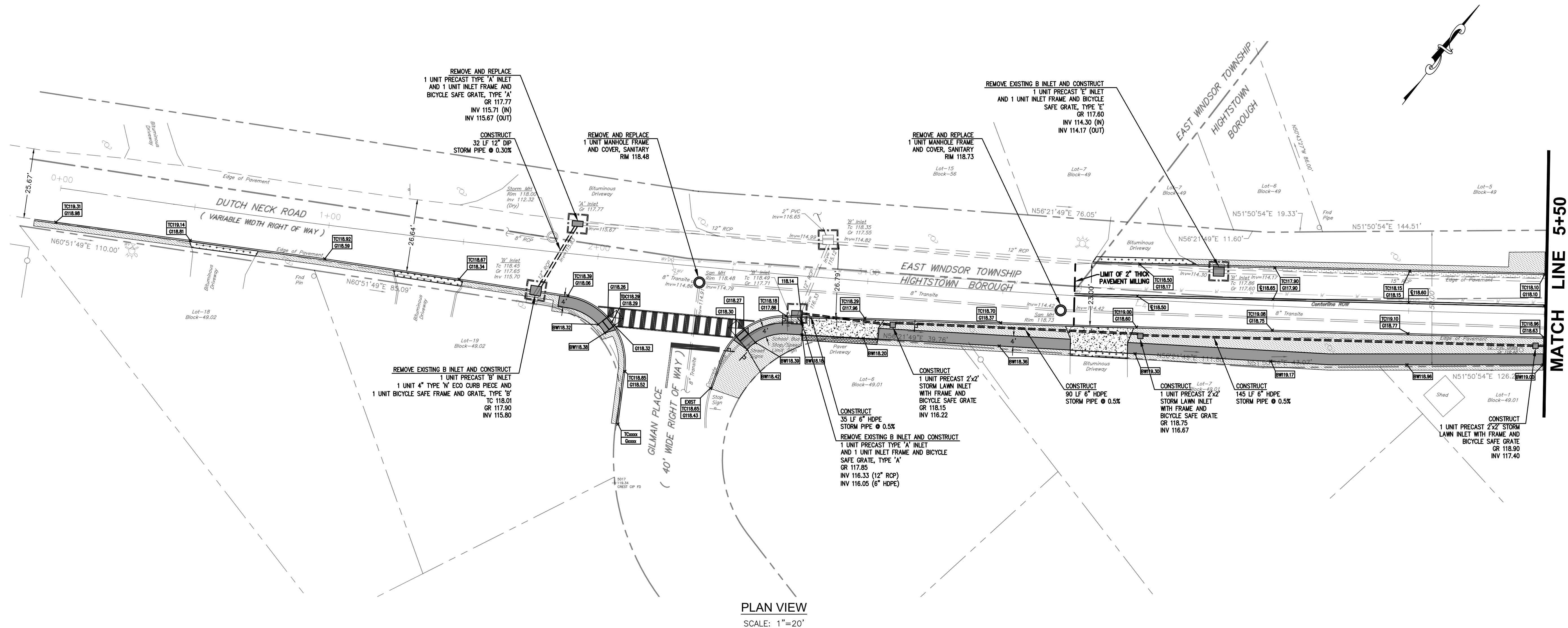


SITE CONSTRUCTION PLAN

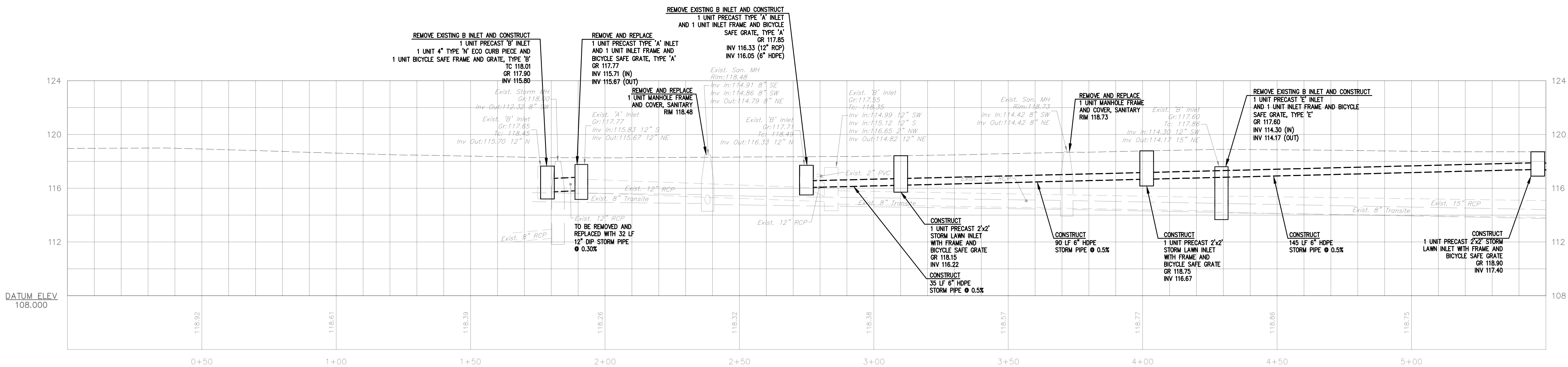
IMPROVEMENTS TO
DUTCH NECK ROAD

BOROUGH OF HIGHTSTOWN,
MERCER COUNTY, NEW JERSEY

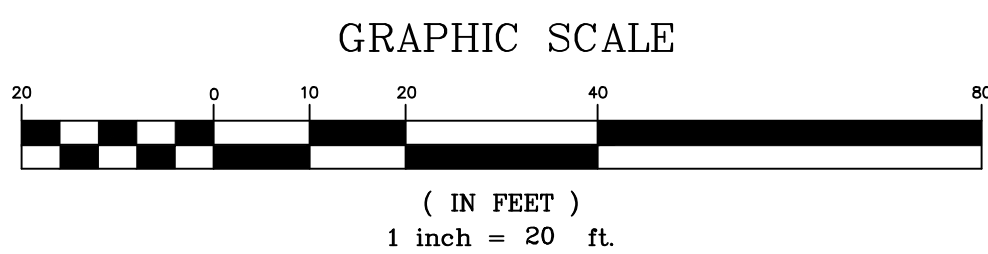
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DRAWN BY: SK/KP	CHECKED BY: CC
DATE: 2/26/2026	
SCALE: 1"=20'	
DWG. No.: SC	
SHEET No.	
5 OF 11	



PLAN VIEW
SCALE: 1"=20'



PROFILE VIEW
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'



NO.	DATE	REVISIONS	BY	CHECKED
4	9/25/26	REVISE PAVEMENT WIDTH AND GRADING PER BOROUGH REQUEST	KP	CC
3	07/16/26	BID SET	JB	CC
2	06/08/26	REVISE PER NJDOT PS&E COMMENTS DATED JUNE 3, 2026.	SK	CC
1	05/08/26	REVISE TRAFFIC CONTROL PER NJDOT REVIEW LETTER DATED MAY 4, 2026.	SK	CC

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TED W. PIVOVARNICK, PLS
LICENSED PROFESSIONAL LAND SURVEYOR
STATE OF NEW JERSEY LIC. No. 24GS03586800

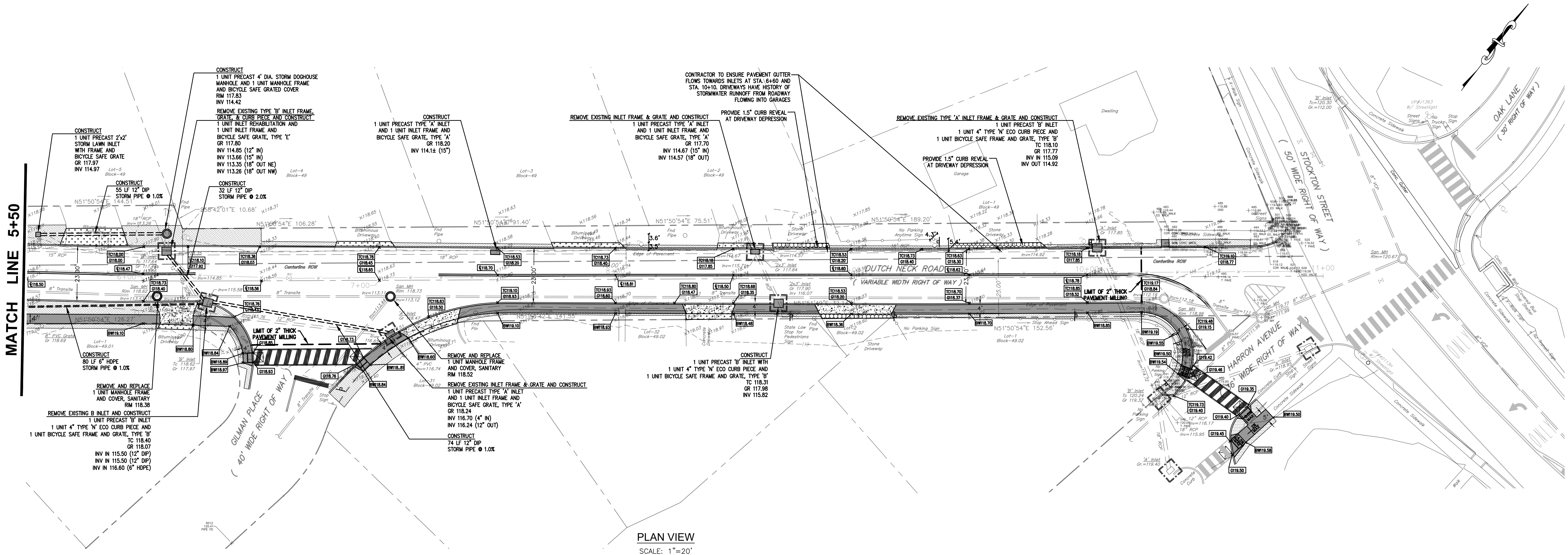
DUTCH NECK ROAD PLAN & PROFILE AND
SOIL EROSION & SEDIMENT CONTROL PLAN

IMPROVEMENTS TO
DUTCH NECK ROAD

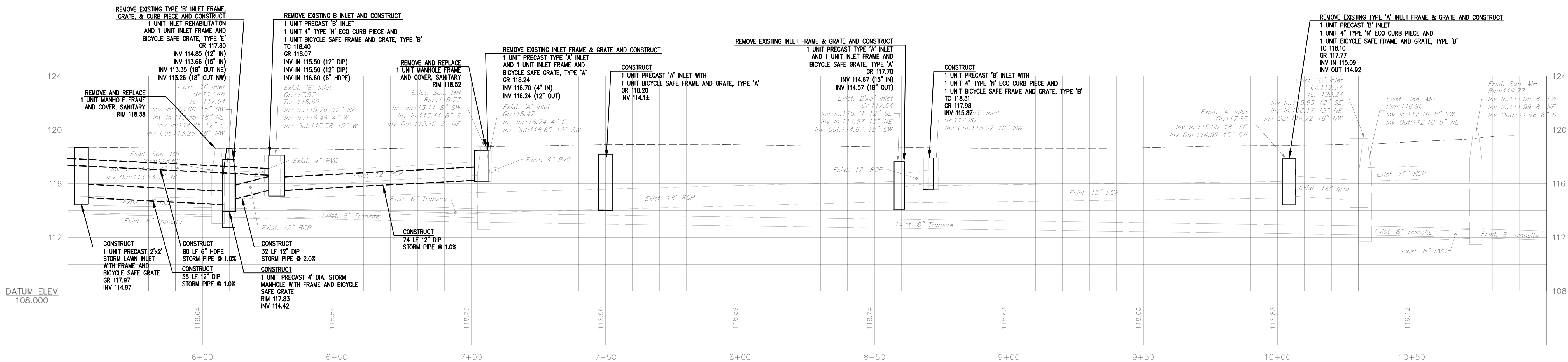
BOROUGH OF HIGHTSTOWN,
MERCER COUNTY, NEW JERSEY

FILE NO.	DESIGNED BY:
H1807	CC
DRAWN BY:	CHECKED BY:
SK/KP	CC
DATE:	2/26/2026
SCALE:	1"=20'
DWG. No.:	PP1
SHEET No.	

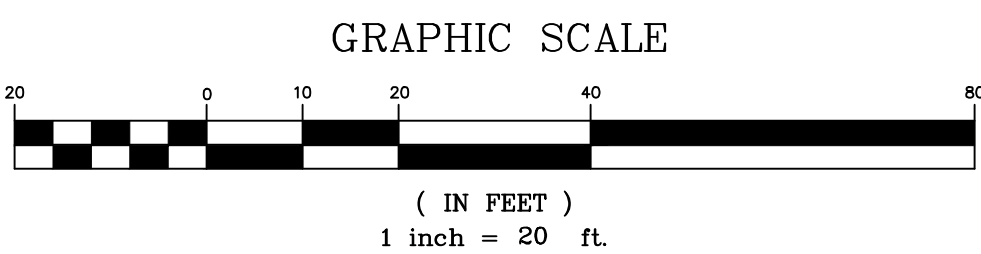
MATCH LINE 5+50



PLAN VIEW
SCALE: 1"=20'



PROFILE VIEW
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'



NO.	DATE	REVISIONS	BY	CHECKED
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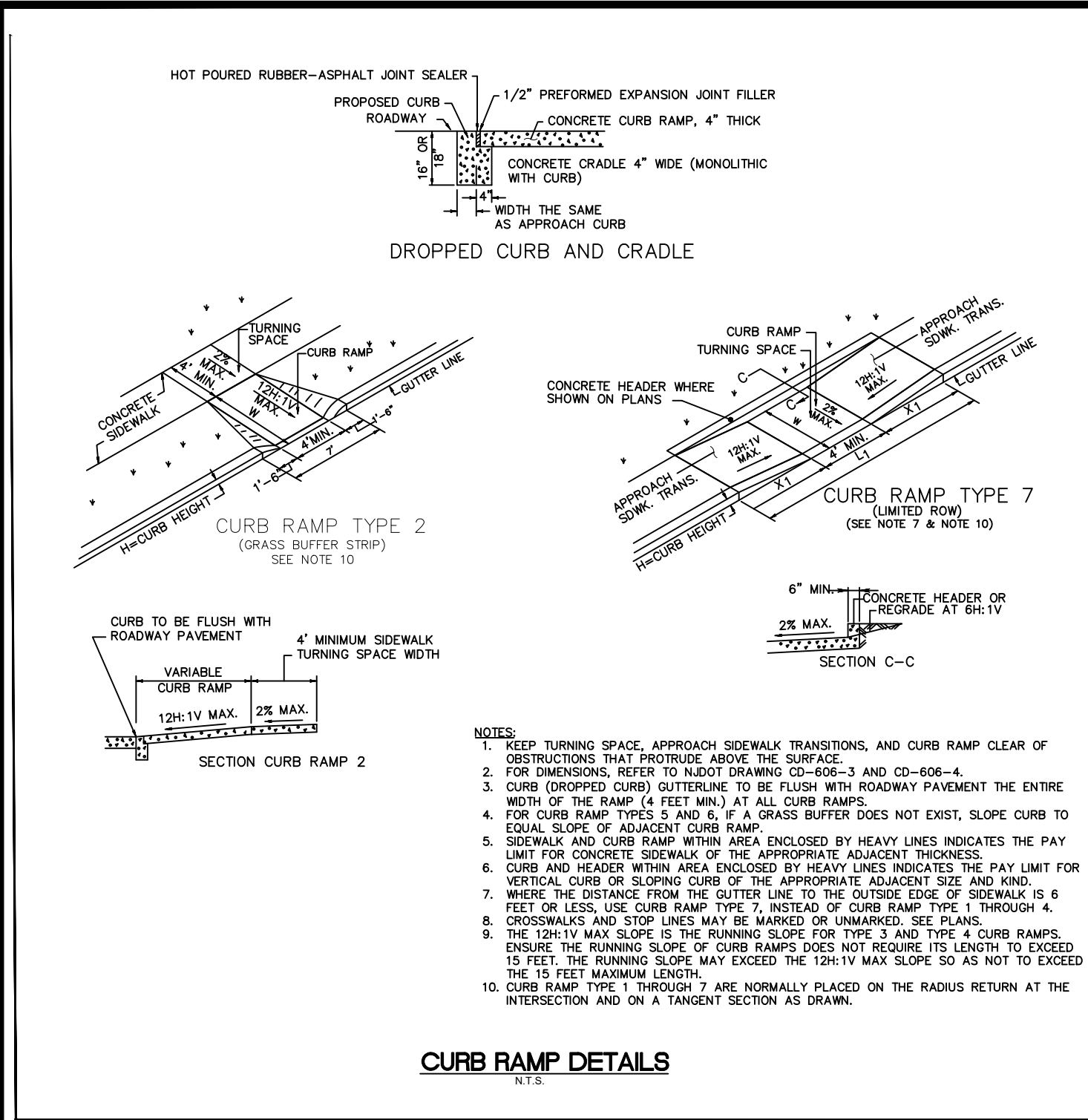
DUTCH NECK ROAD PLAN & PROFILE AND
SOIL EROSION & SEDIMENT CONTROL PLAN

IMPROVEMENTS TO
DUTCH NECK ROAD

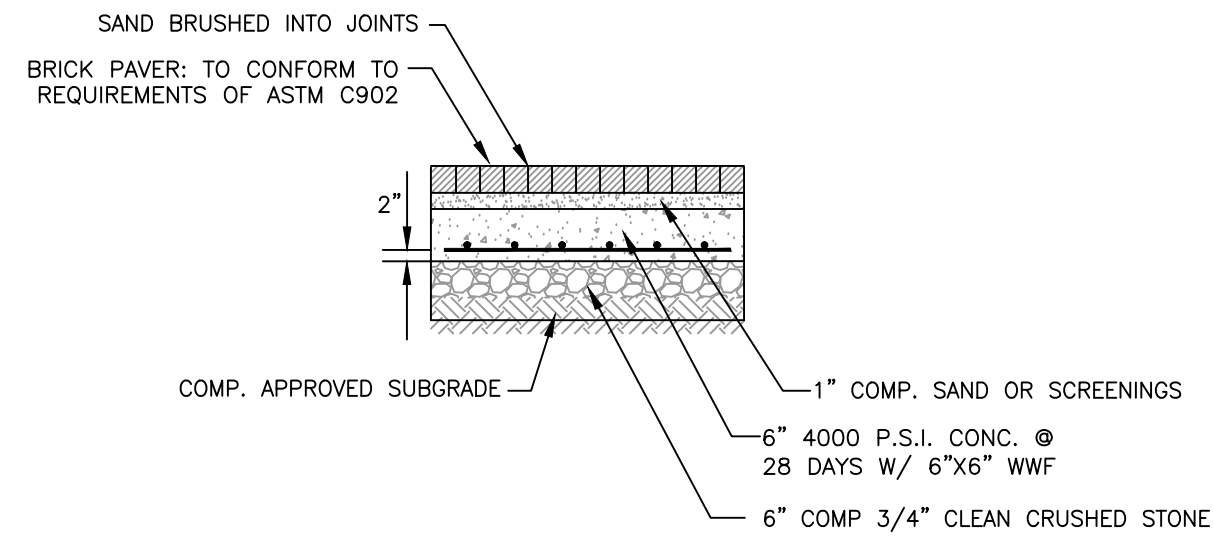
BOROUGH OF HIGHTSTOWN,
MERCER COUNTY, NEW JERSEY

FILE NO. H1807 DESIGNED BY: CC
DRAWN BY: SK/KP CHECKED BY: CC
DATE: 2/26/2026
SCALE: 1"=20'
DWG. No.: PP2
SHEET No. 7 OF 11

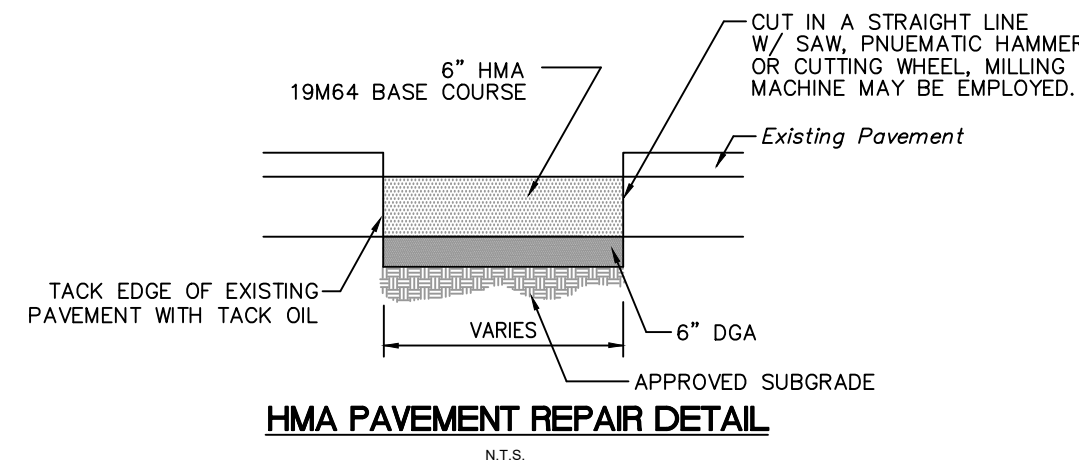
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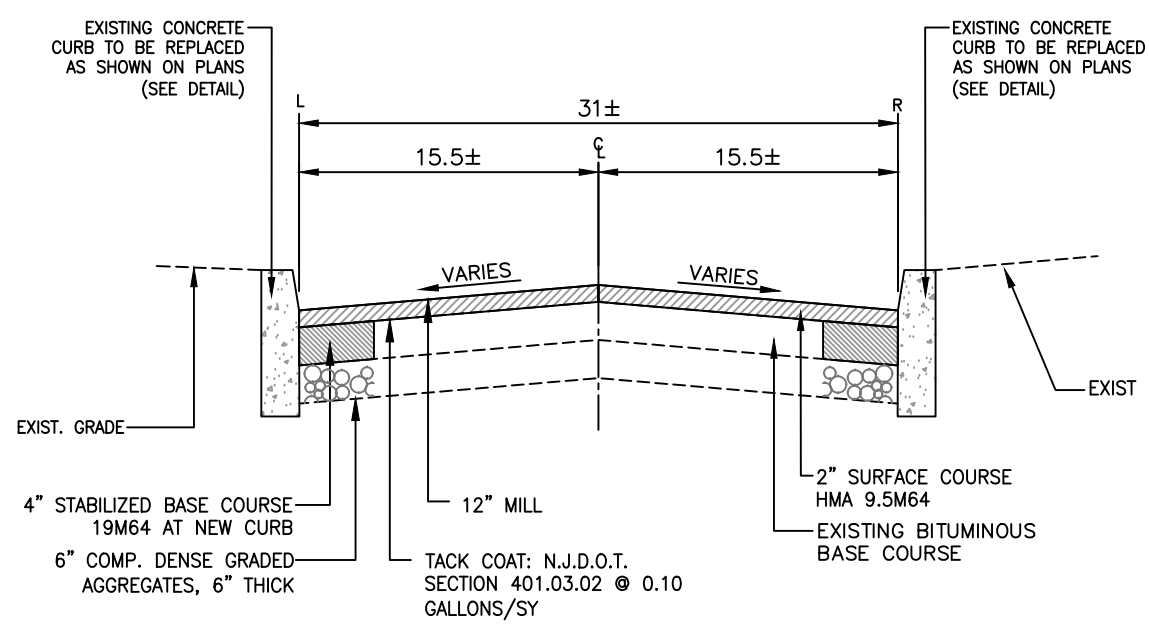
CURB RAMP DETAILS
N.T.S.



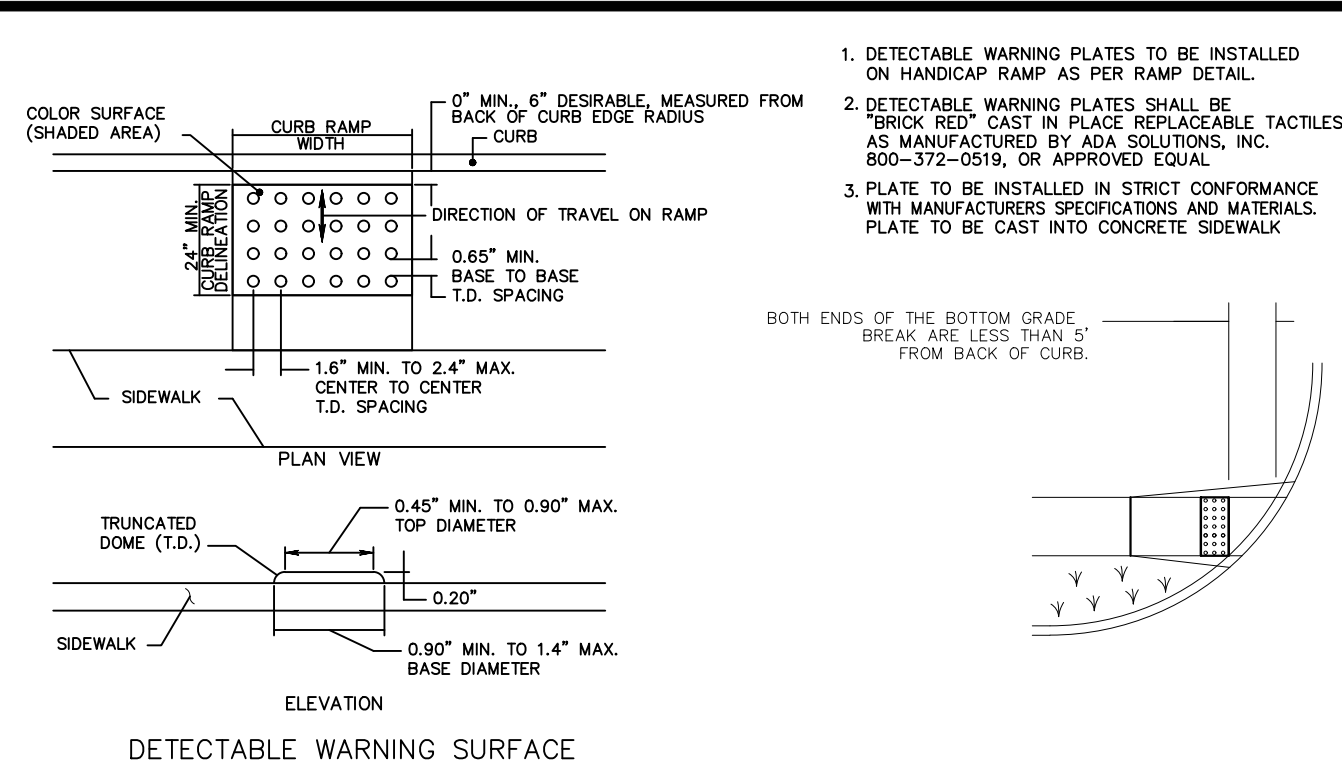
BRICK PAVER DRIVEWAY REPAIR DETAIL
N.T.S.



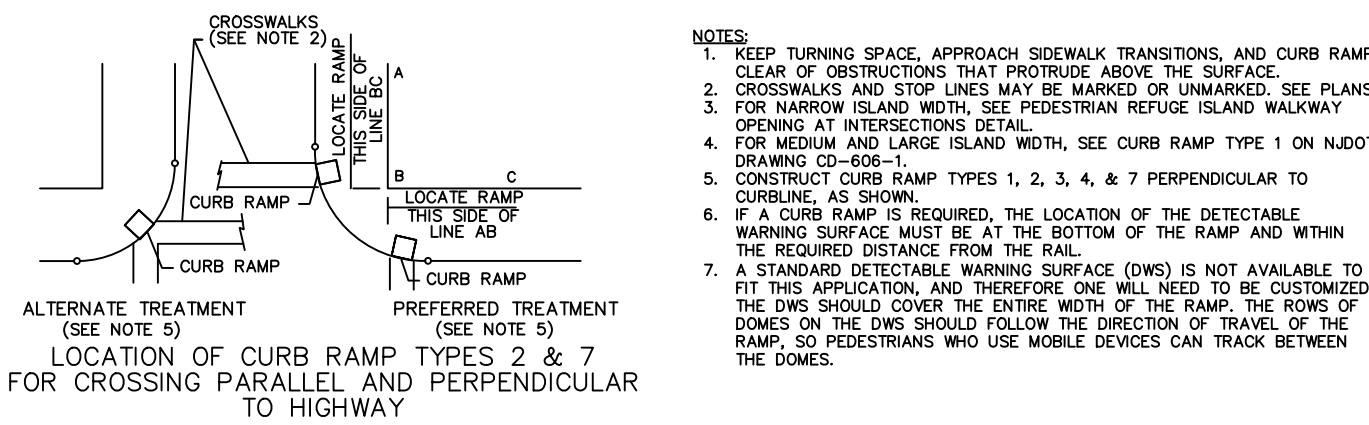
HMA PAVEMENT REPAIR DETAIL
N.T.S.



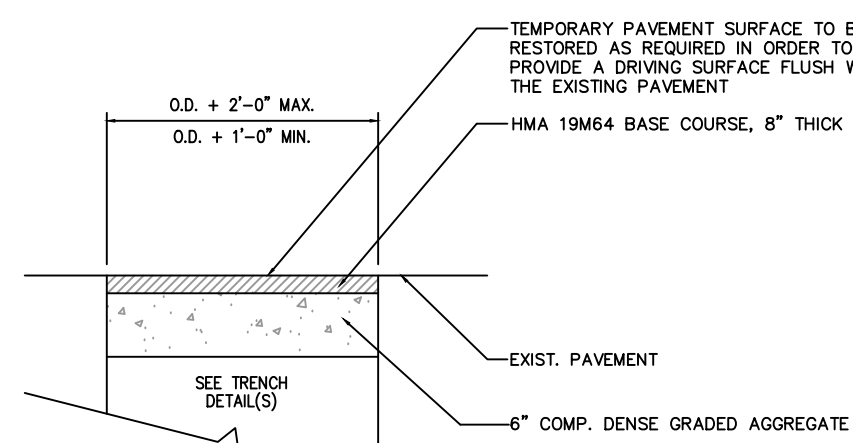
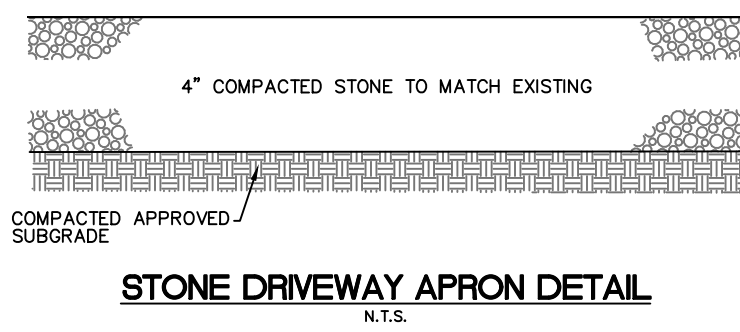
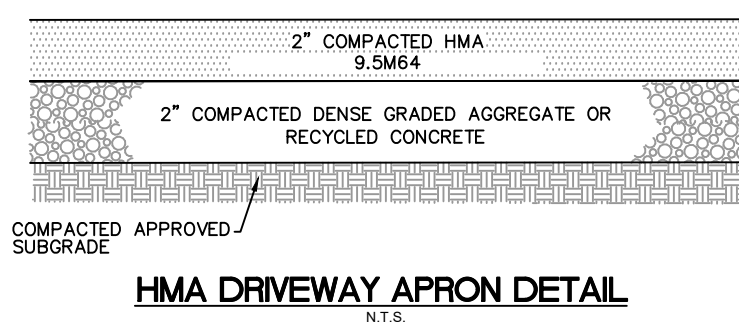
FULL DEPTH REPLACEMENT TYPICAL ROADWAY MILLING CROSS-SECTION
N.T.S.



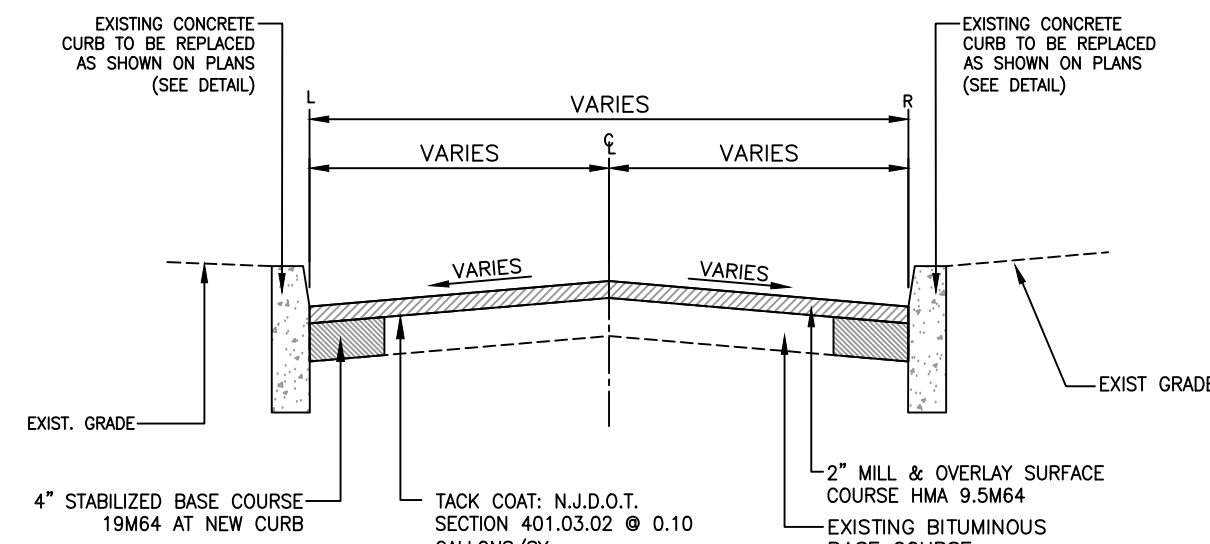
DETECTABLE WARNING SURFACE



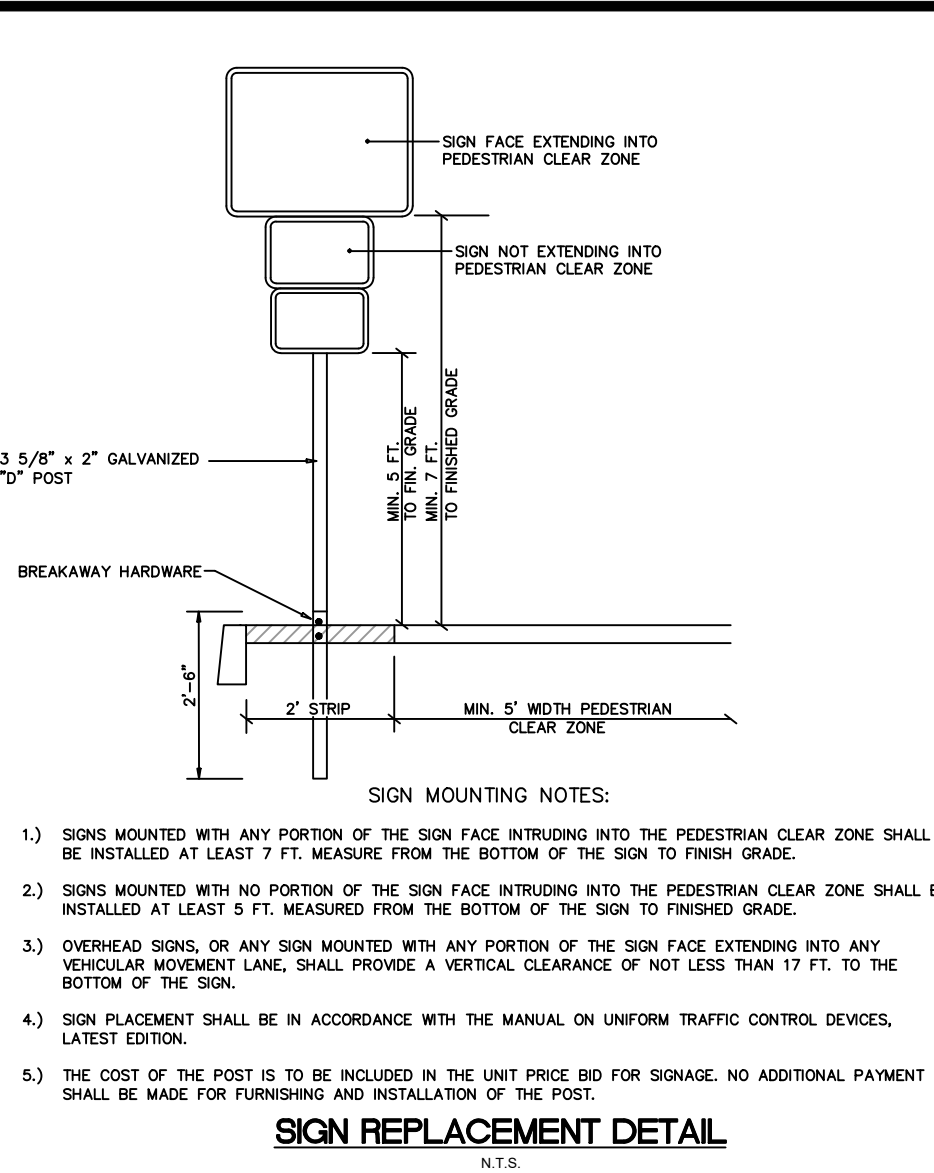
ACCESSIBLE RAMP DELINEATION DETAIL
N.T.S.



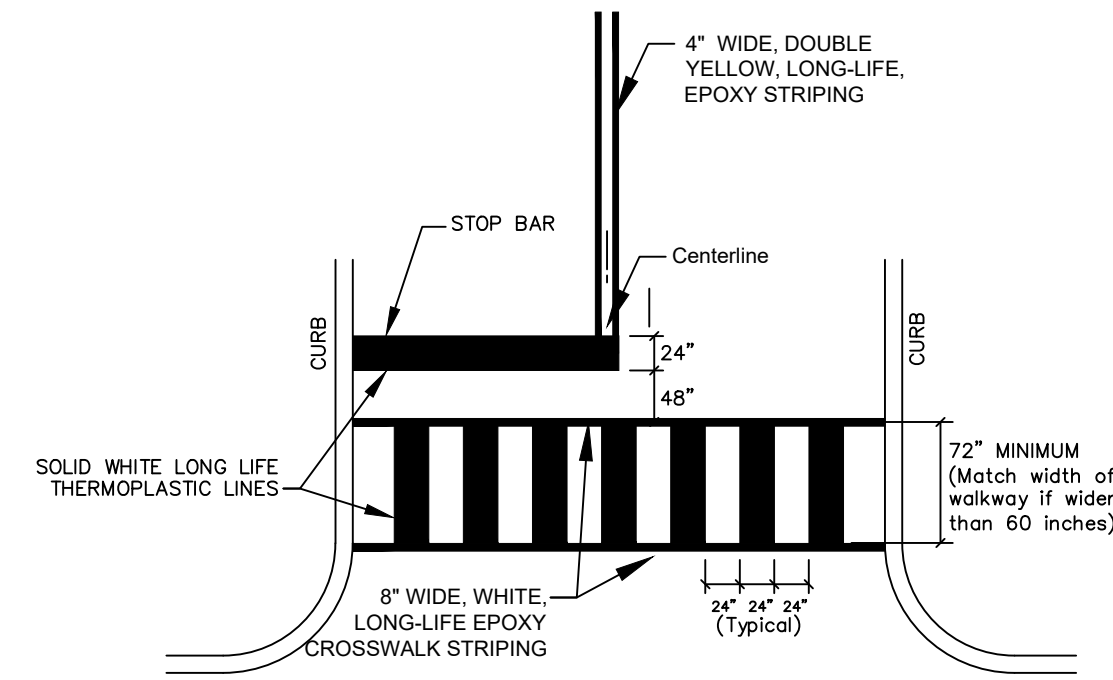
TEMPORARY PAVEMENT REPLACEMENT
N.T.S.



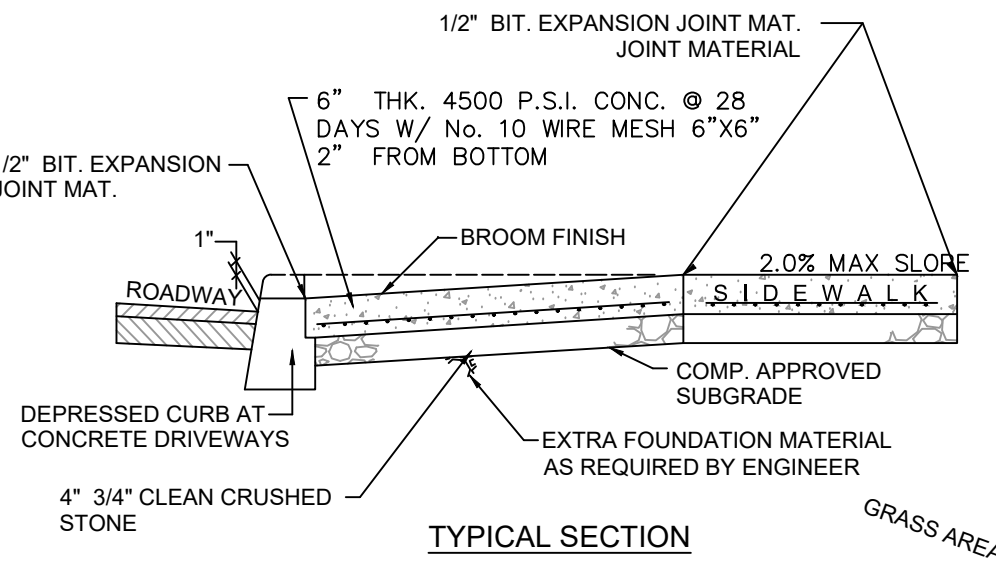
TYPICAL ROADWAY MILLING CROSS-SECTION
N.T.S.



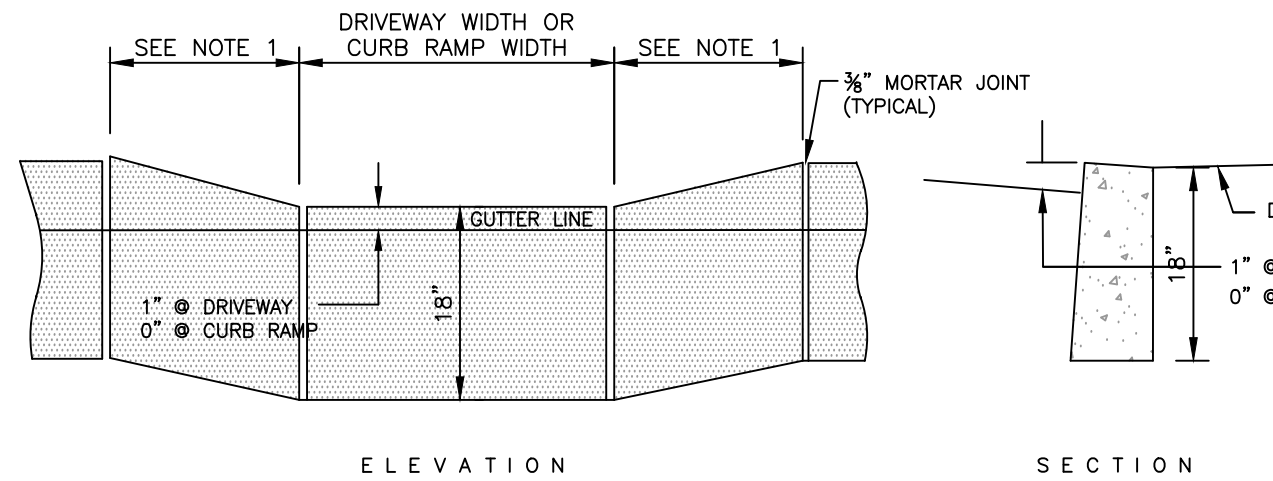
SIGN REPLACEMENT DETAIL
N.T.S.



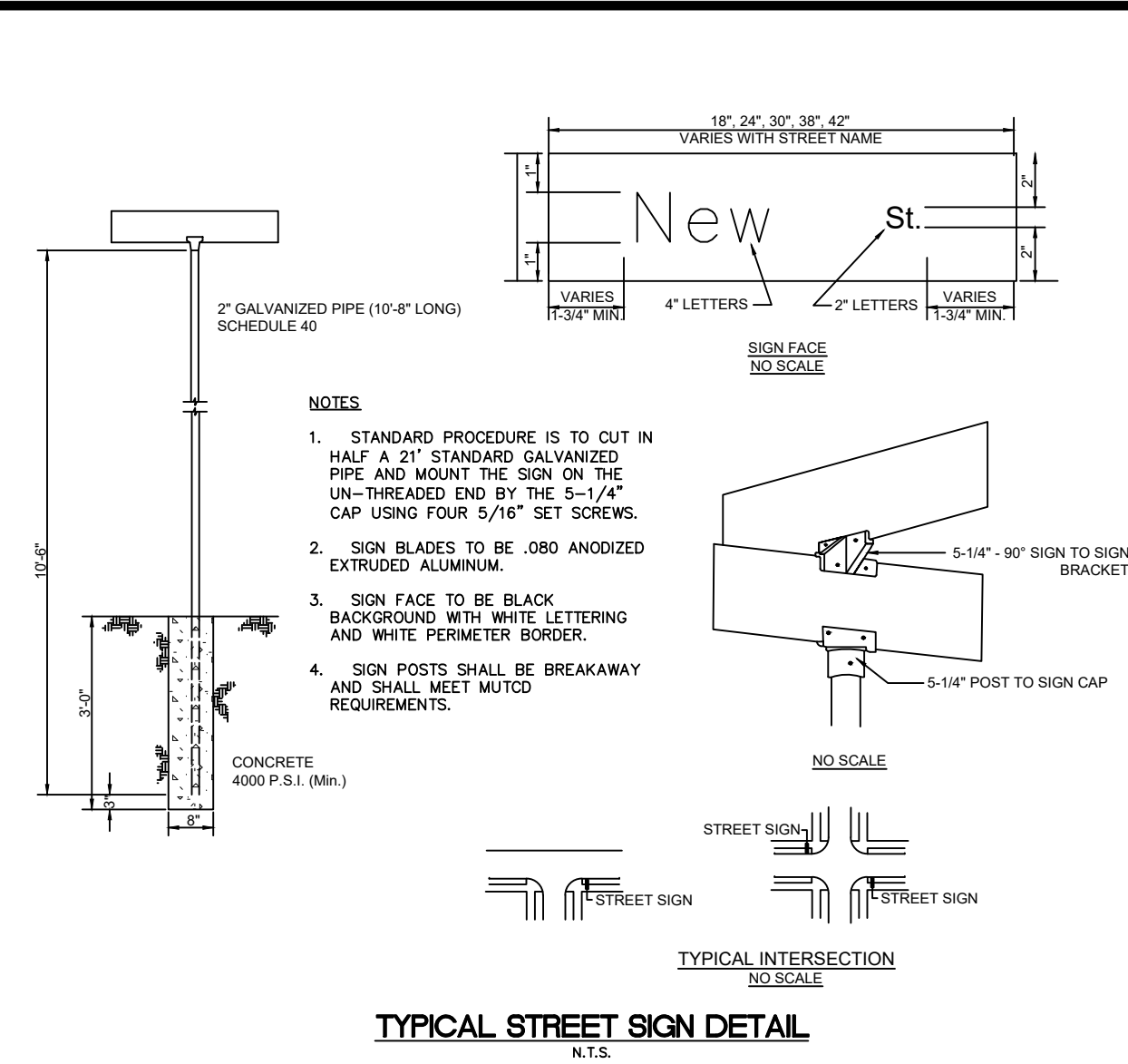
CROSSWALK STRIPING DETAIL
N.T.S.



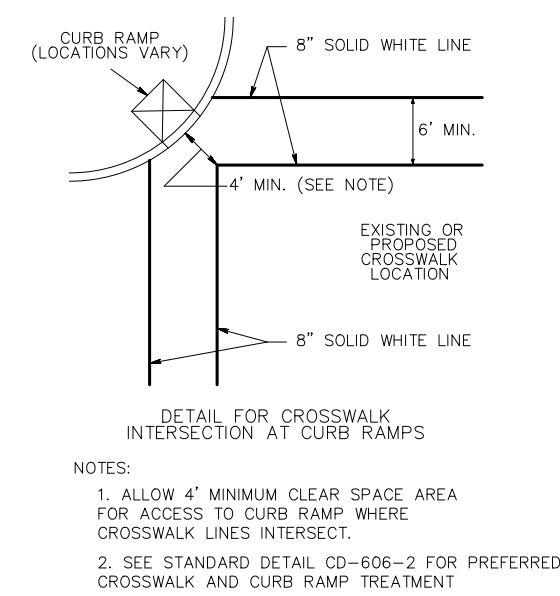
CONCRETE DRIVEWAY APRON
N.T.S.



DEPRESSED CURB DETAIL
N.T.S.

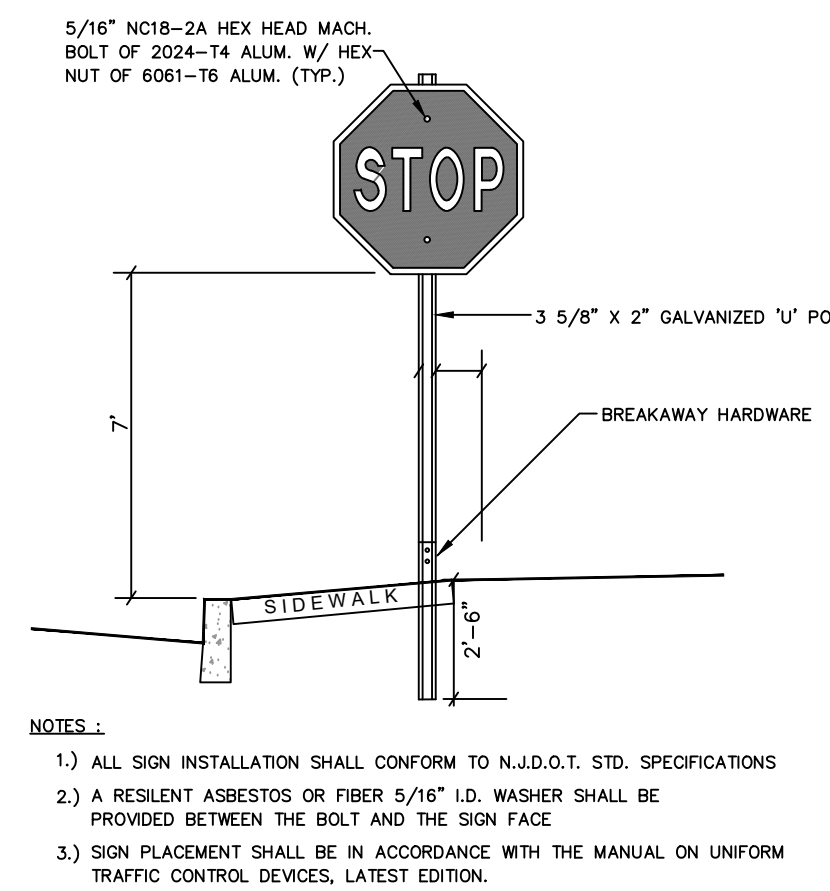


TYPICAL STREET SIGN DETAIL
N.T.S.

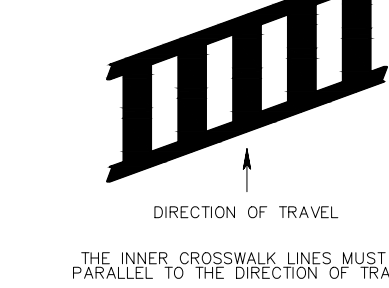


DETAIL FOR CROSSWALK INTERSECTION AT CURB RAMPS
N.T.S.

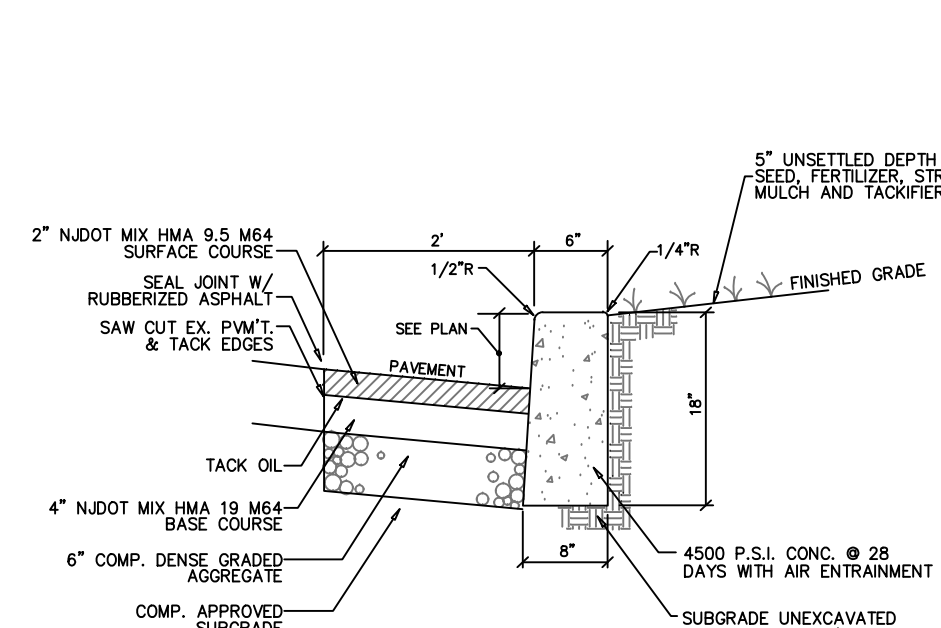
WARNING/REGULATORY SIGN LIST			
DESCRIPTION	M.U.T.C.D. SIGN DESIGNATION	QUANTITY	SIZE
STOP	R1-1	3	30"x30"
SPEED LIMIT, 25 MPH	R2-1	2	30"x24"
NO PARKING ANYTIME	R7-1	2	18"x12"
NO PARKING	R8-3	1	18"x12"
STOP AHEAD	W3-1A	1	30"x30"
STATE LAW STOP TO PEDESTRIANS IN CROSSWALK	CUSTOM	1	30"x24"



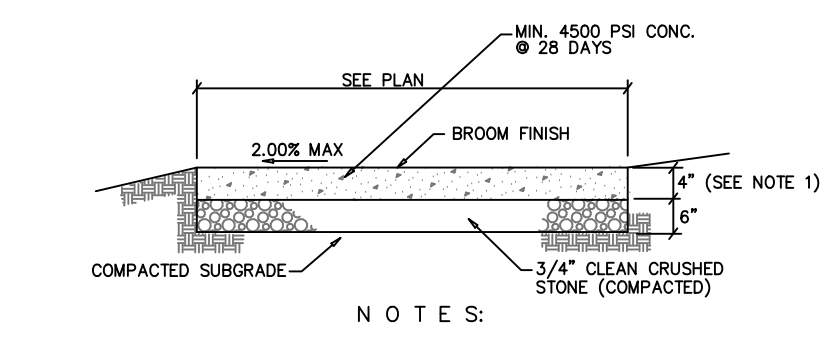
WARNING/REGULATORY SIGN DETAIL
N.T.S.



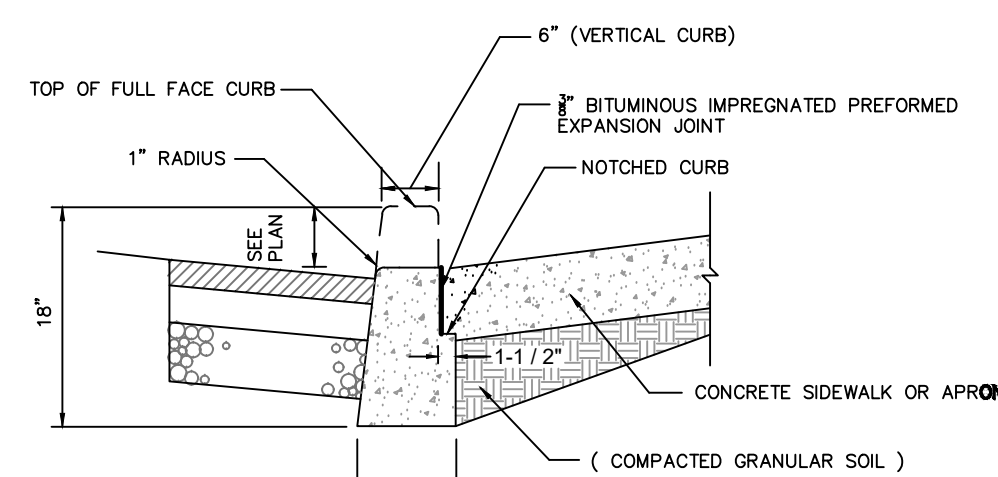
CROSSWALK STRIPING DETAIL
N.T.S.



CONCRETE SIDEWALK DETAIL
N.T.S.



CONCRETE SIDEWALK DETAIL
N.T.S.



NOTCHED CURB DETAIL
N.T.S.

Roberts ENGINEERING GROUP LLC

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CAMERON CORINI, PE
LICENSED PROFESSIONAL ENGINEER
STATE OF NEW JERSEY LIC. No. 24GE05403500

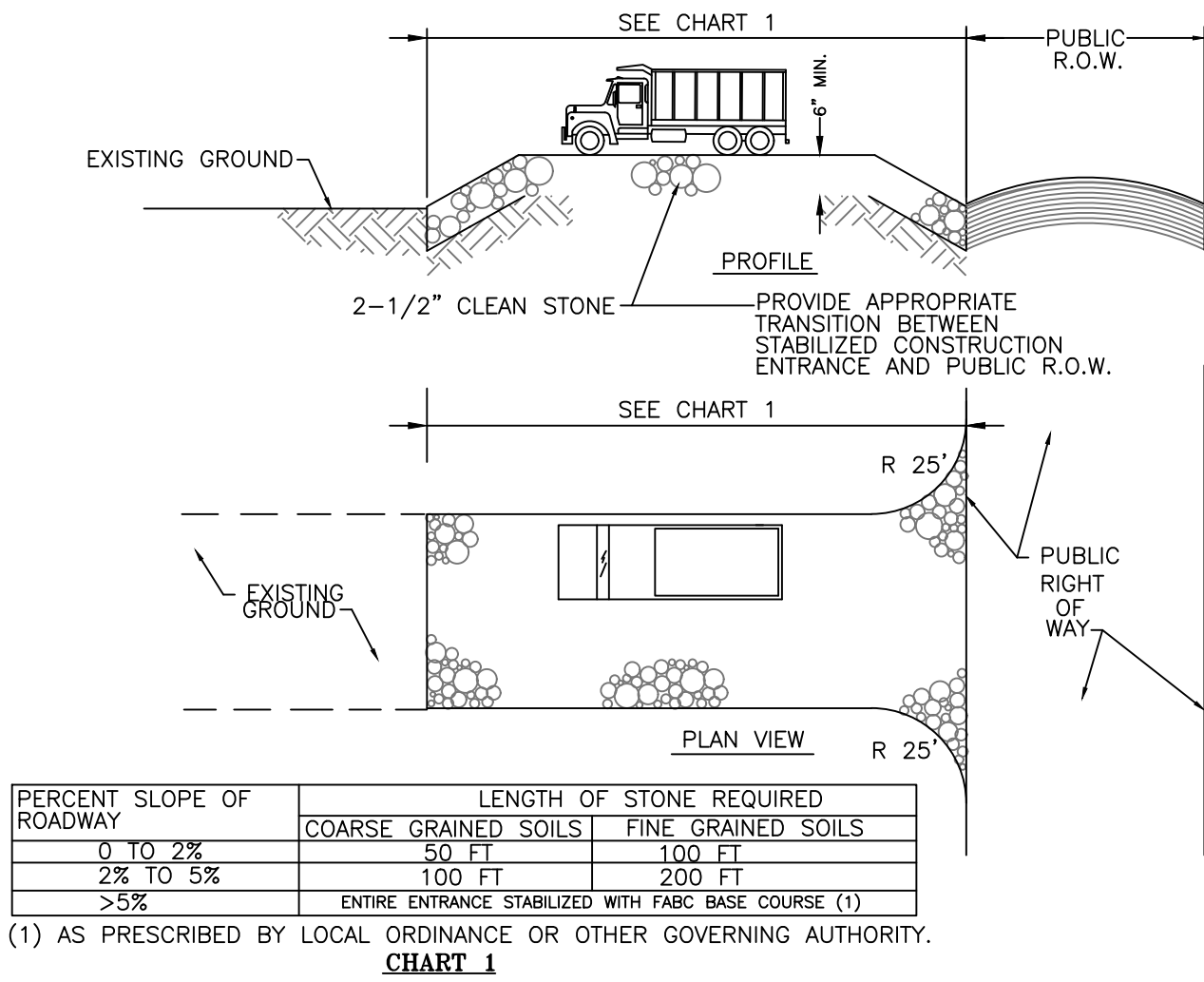
1670 Whitehorse-Hamilton Square Rd.
Hamilton, New Jersey 08690
609-586-1141 Fax 609-586-1143
www.RobertsEngineeringGroup.com

CONSTRUCTION DETAILS

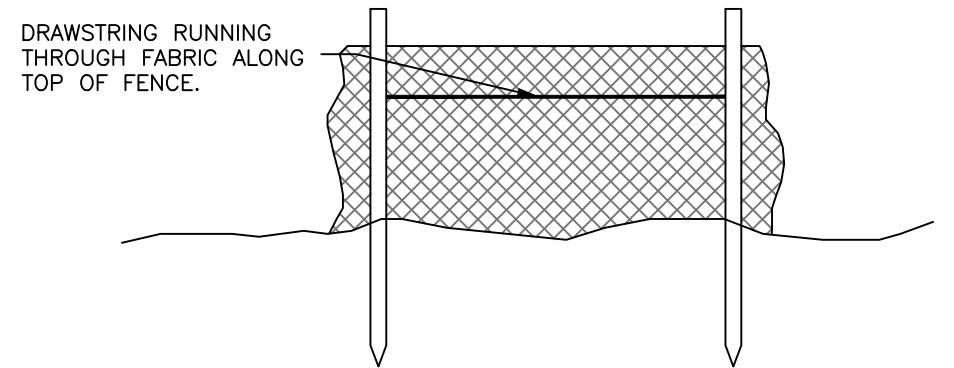
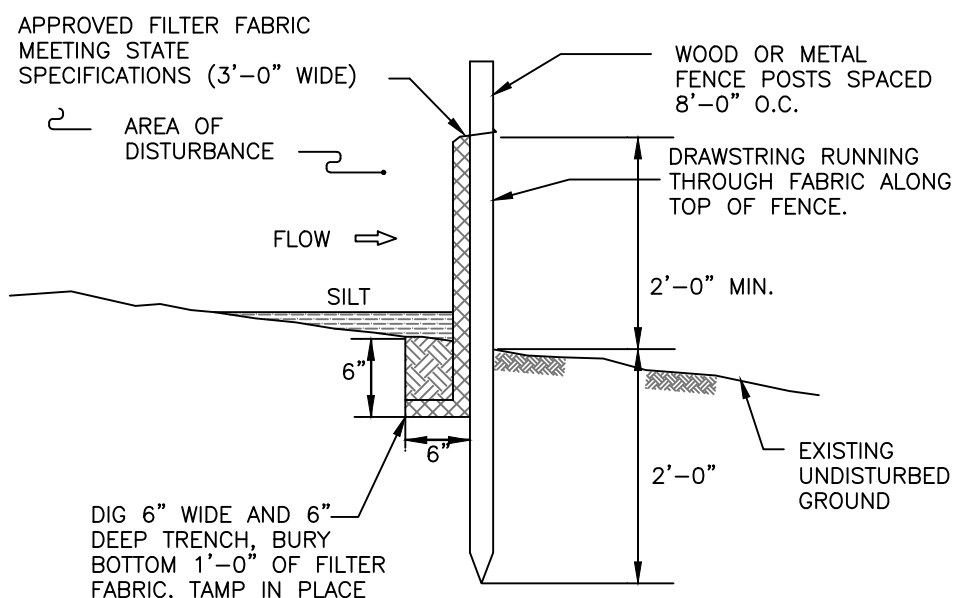
IMPROVEMENTS TO DUTCH NECK ROAD

BOROUGH OF HIGHTSTOWN,
MERCER COUNTY, NEW JERSEY

FILE NO:	DESIGNED BY:
11807	CC
DRAWN BY:	CHECKED BY:
SK/KP	CC
DATE:	2/26/2026
SCALE:	NONE
DWG. No.:	CD2
SHEET No.	

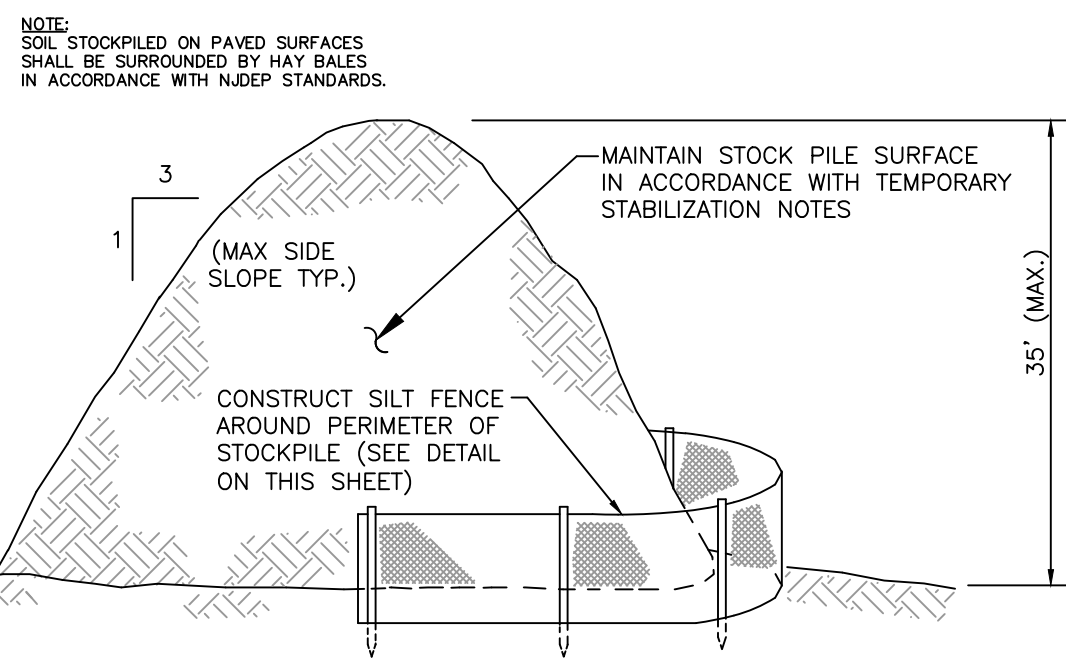


STABILIZED CONSTRUCTION ENTRANCE
N.T.S.

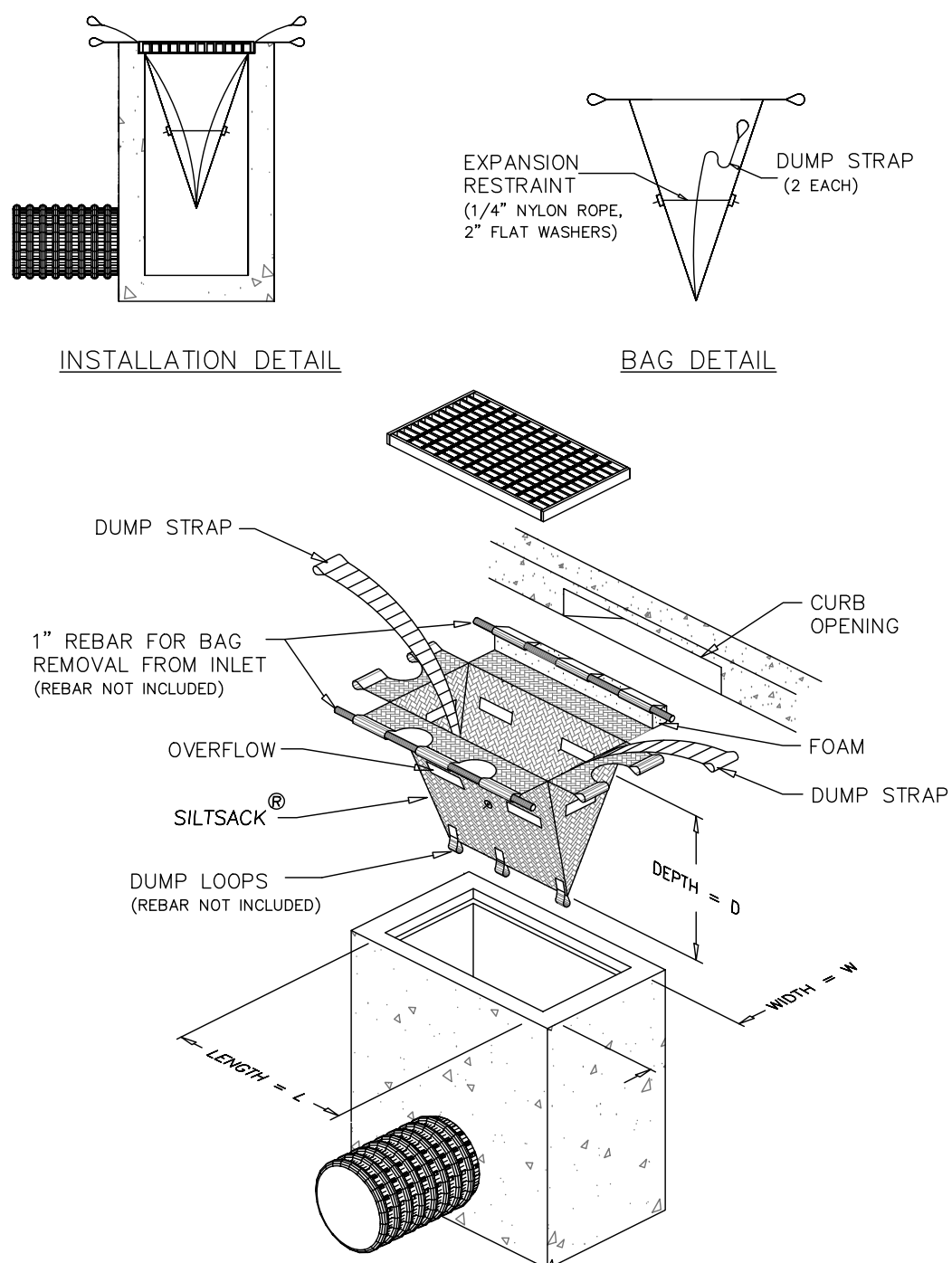


1. PLACE SILT FENCE AT LOCATIONS AS SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN.
2. THE SLOPE OF THE LAND FOR AT LEAST 30 FEET ADJACENT TO ANY SILT FENCE SHALL NOT EXCEED 5 PERCENT.
3. SILT FENCE SHALL BE INSTALLED SO WATER CANNOT BYPASS THE FENCE AROUND THE SIDES.
4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE AS PROMPTLY AS POSSIBLE.
5. SILT FENCE SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER OR SOIL CONSERVATION DISTRICT.
6. THE BARRIER SHALL BE REMOVED WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. FENCE POSTS SHALL BE SPACED 8 FEET CENTER-TO-CENTER OR CLOSER. THEY SHALL EXTEND AT LEAST 2 FEET INTO THE GROUND AND EXTEND AT LEAST 2 FEET ABOVE GROUND. POSTS SHALL BE CONSTRUCTED OF HARDWOOD A MIN. DIAMETER THICKNESS OF 1 1/2 INCHES.
8. A METAL FENCE WITH 6 INCH OR SMALLER OPENINGS AND AT LEAST 2 FEET HIGH MAY BE UTILIZED. FASTENED TO THE FENCE POSTS, TO PROVIDE REINFORCEMENT AND SUPPORT TO THE GEOTEXTILE FABRIC WHERE SPACE FOR OTHER PRACTICES IS LIMITED AND HEAVY SEDIMENT LOADING IS EXPECTED.
9. A GEOTEXTILE FABRIC, RECOMMENDED FOR SUCH USE BY THE MANUFACTURER, SHALL BE BURIED AT LEAST 6 INCHES DEEP IN THE GROUND. THE FABRIC SHALL EXTEND AT LEAST 2 FEET ABOVE GROUND. FABRIC MUST BE SECURELY FASTENED TO THE POSTS USING A SYSTEM CONSISTING OF METAL FASTENERS (NAILS OR STAPLES) AND HIGH STRENGTH REINFORCEMENT MATERIAL (NYLON WEBBING, GROMMETS, WASHERS ETC.) PLACED BETWEEN THE FASTENER AND THE GEOTEXTILE FABRIC. THE FASTENING SYSTEM SHALL RESIST TEARING AWAY FROM THE POST. THE FABRIC SHALL INCORPORATE A DRAWSTRING IN THE TOP PORTION OF THE FENCE FOR ADDED STRENGTH.

SILT FENCE
N.T.S.

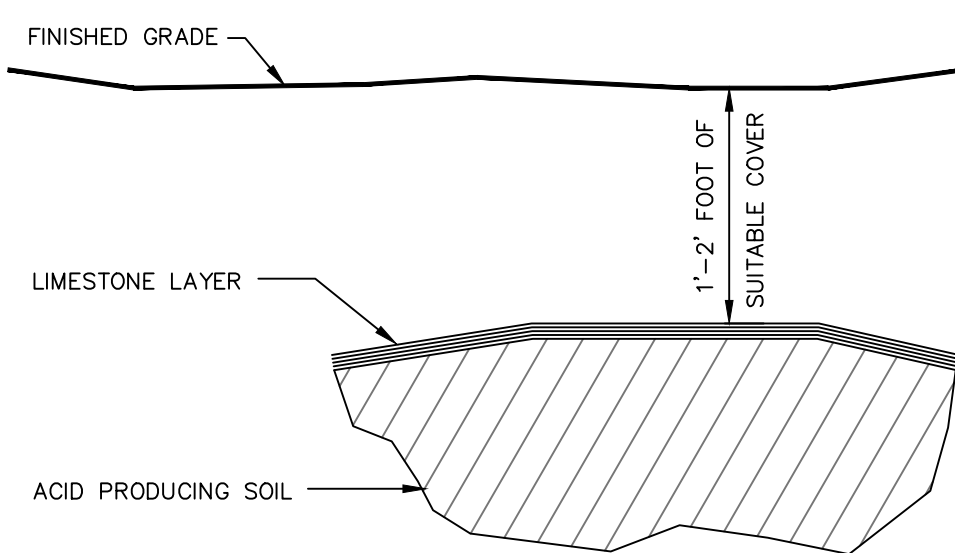


TEMPORARY STOCKPILE DETAIL
N.T.S.



- NOTES:
1. FILTER TO REMAIN UNTIL COMPLETION OF FINAL GRADING AND ESTABLISHMENT OF COVER. PERIODIC CHECKS MUST BE MADE AFTER EACH RAINFALL TO EXCAVATE AND REMOVE EXCESS SEDIMENT FROM AROUND INLETS.
 2. FILTER INSERT TO BE "SILT SACK" OR APPROVED EQUIVALENT.
 3. ALL INLETS TO BE INSTALLED WITH INSERT FILTERING DEVICE.

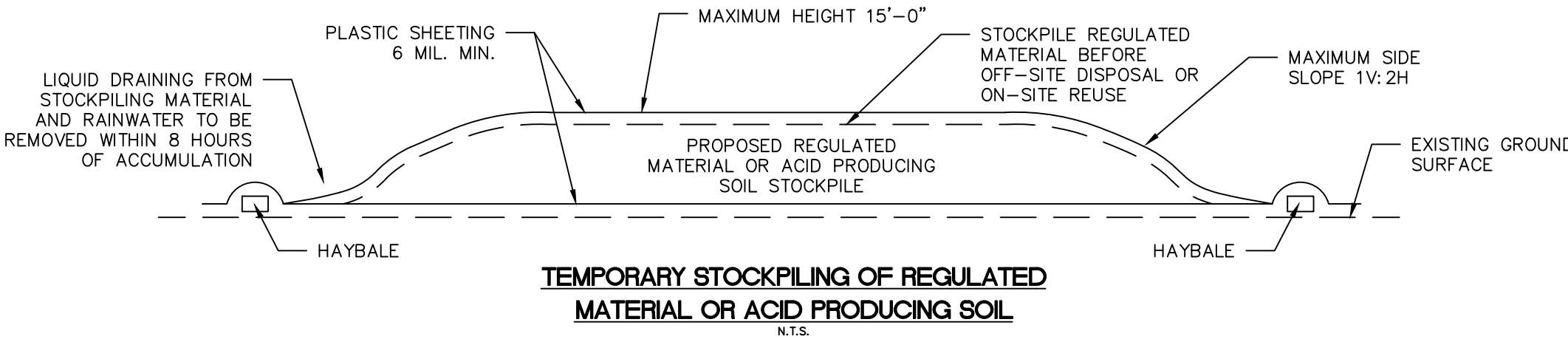
INLET INSERT FILTER PROTECTION
N.T.S.



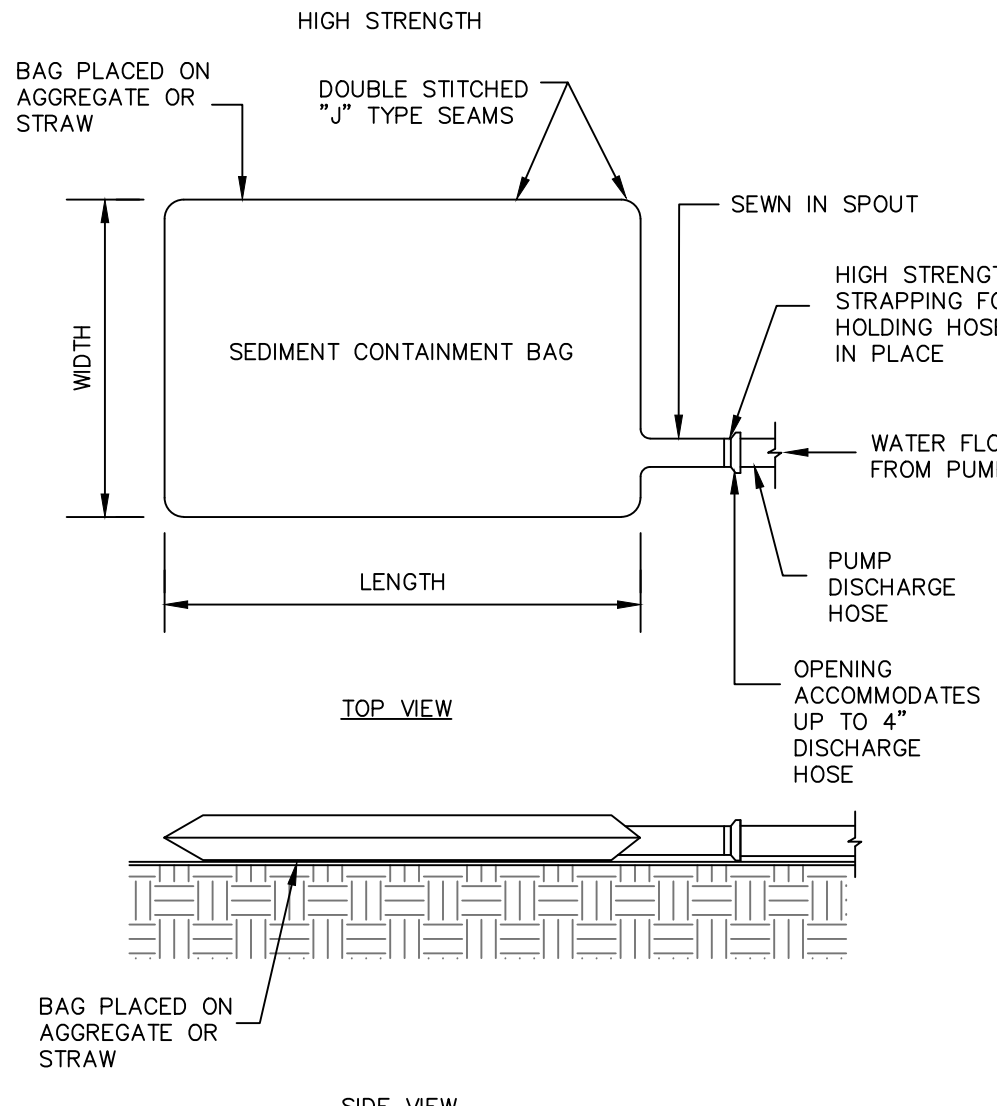
NOTES:

1. ACID PRODUCING SOILS ARE DEFINED AS SOILS CONTAINING IRON SULFIDE MINERALS OR SOIL WITH A pH OF 4.0 OR LESS.
2. IRON SULFIDE MINERALS WILL PRODUCE SULFURIC ACID WHEN EXPOSED TO THE AIR AND SURFACE WATERS.
3. SOIL USED TO COVER ACID PRODUCING SOILS SHALL HAVE A pH OF 5.0 OR MORE.
4. SLOPED AREAS AND AREAS WITH TREE AND SHRUB PLANTINGS WILL BE COVERED WITH 2 FEET OF SUITABLE MATERIAL. THE TOP 5 INCHES SHALL BE TOPSOIL.
5. ACID SOIL BURIAL WILL AVOID AREAS OF RESIDENTIAL LOTS.

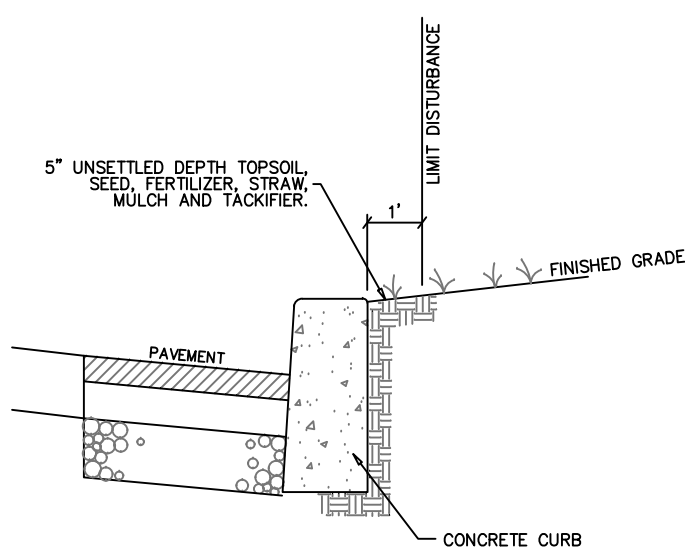
ACID SOIL DETAIL
N.T.S.



TEMPORARY STOCKPILING OF REGULATED MATERIAL OR ACID PRODUCING SOIL
N.T.S.

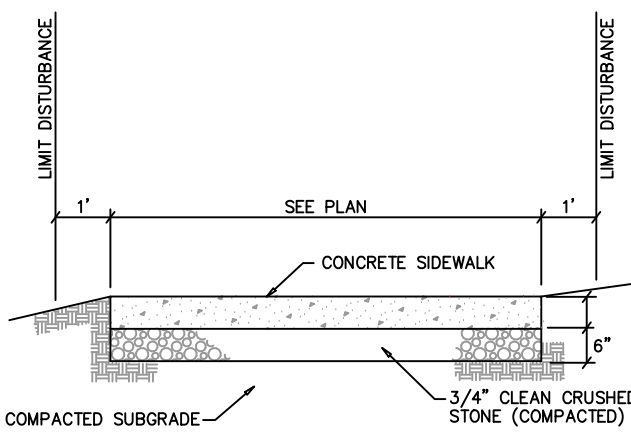


SEDIMENT CONTAINMENT BAG DE-WATERING DETAIL
N.T.S.



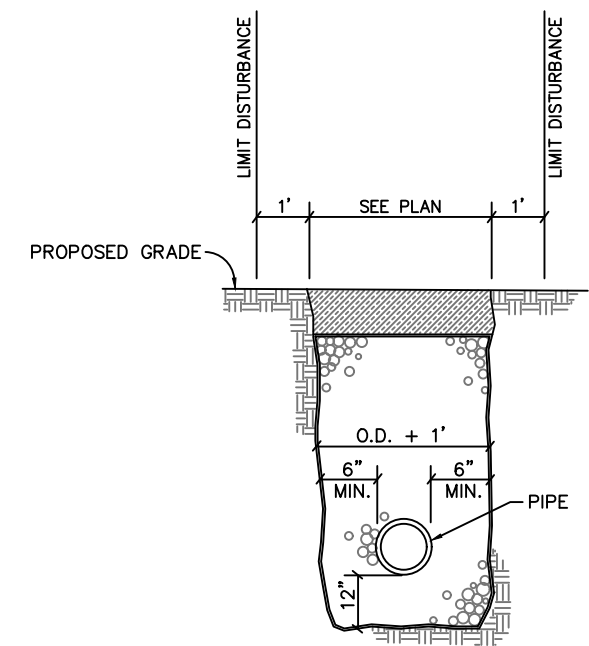
- NOTE:
1. ALL AREAS OF SOIL DISTURBANCE TO BE RESTORED WITH TOPSOIL, SEED, AND MULCH FOR A MINIMUM THICKNESS OF 5".

TYPICAL LIMIT OF DISTURBANCE AT CURB DETAIL
N.T.S.



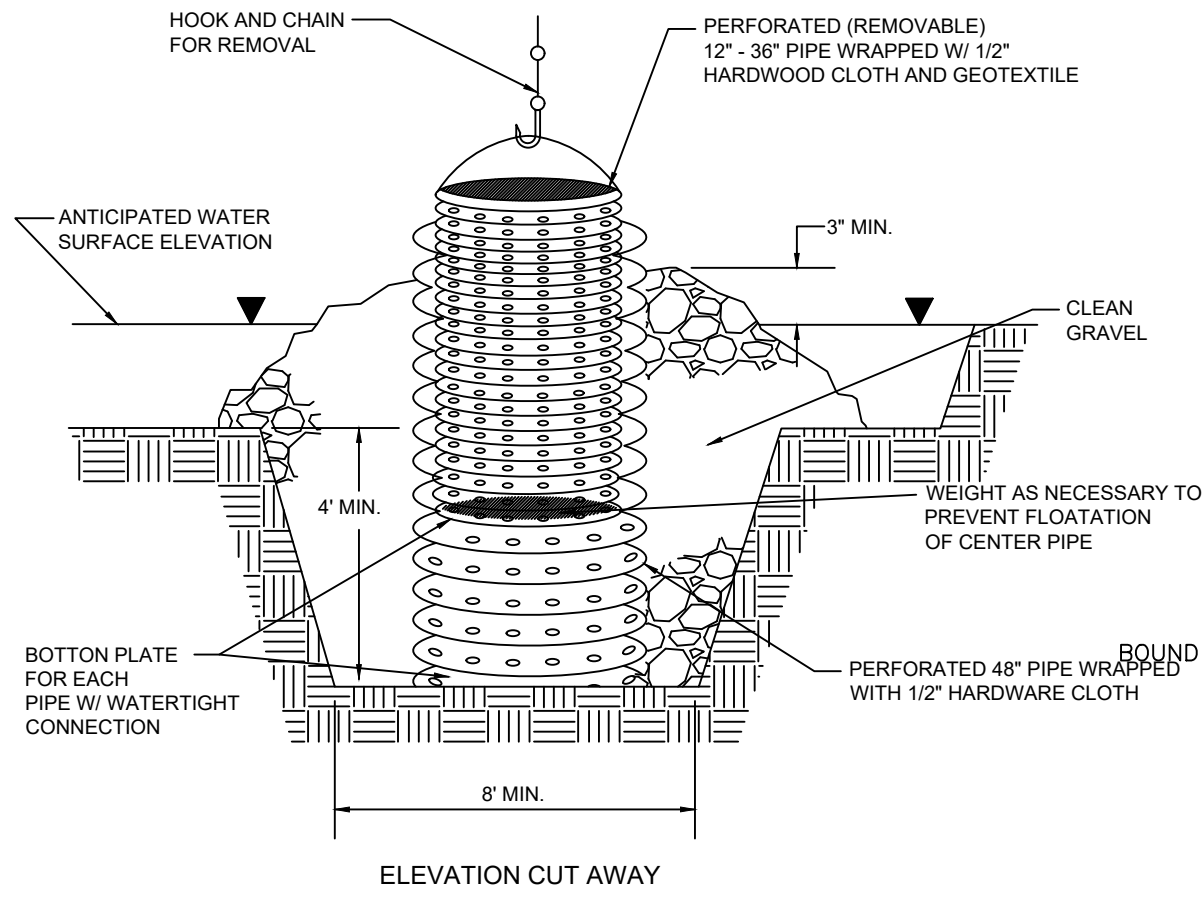
- NOTE:
1. ALL AREAS OF SOIL DISTURBANCE TO BE RESTORED WITH TOPSOIL, SEED, AND MULCH FOR A MINIMUM THICKNESS OF 5".

TYPICAL LIMIT OF DISTURBANCE AT SIDEWALKS DETAIL
N.T.S.



1. ALL AREAS OF SOIL DISTURBANCE TO BE RESTORED WITH TOPSOIL, SEED, AND MULCH FOR A MINIMUM THICKNESS OF 5".

TYPICAL LIMIT OF DISTURBANCE AT TRENCH DETAIL
N.T.S.



- CONSTRUCTION SPECIFICATIONS:
1. THE OUTER PIPE SHOULD BE 48" DIA. OR SHALL, IN ANY CASE, BE AT LEAST 4" GREATER IN DIAMETER THAN THE CENTER PIPE. THE OUTER PIPE SHALL BE WRAPPED WITH 1/2" HARDWARE CLOTH TO PREVENT BACKFILL MATERIAL FROM ENTERING THE PERFORATIONS.
 2. AFTER INSTALLING THE OUTER PIPE, BACKFILL AROUND IT WITH 2" AGGREGATE OR CLEAN GRAVEL.
 3. THE INSIDE STAND PIPE (CENTER PIPE) SHOULD BE CONSTRUCTED BY PERFORATING A CORRUGATED OR PVC PIPE BETWEEN 12" AND 36" IN DIAMETER. THE PERFORATIONS SHALL BE 1/2" X 6" SLOTS OR 1" DIAMETER HOLES 8" ON CENTER. THE CENTER PIPE SHALL BE WRAPPED WITH 1/2" HARDWARE CLOTH FIRST, THEN WRAPPED AGAIN WITH GEOTEXTILE CLASS E.
 4. THE CENTER PIPE SHOULD EXTEND 12" TO 18" ABOVE THE ANTICIPATED WATER SURFACE ELEVATION OR RISER CREST ELEVATION WHEN DEWATERING A TRENCH OR A BASIN.

(STANDARD FOR DEWATERING)

REMOVABLE PUMPING STATION

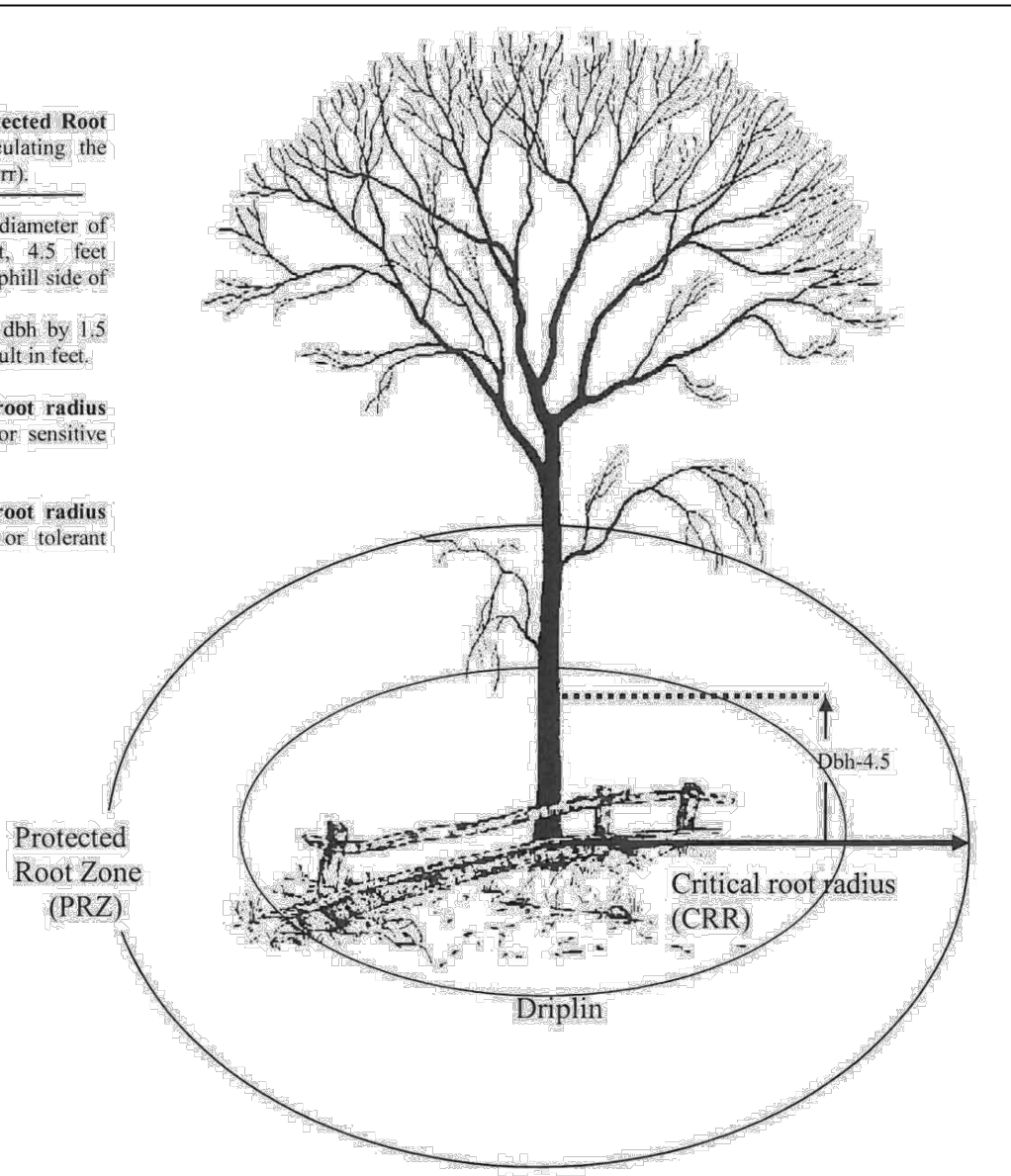
N.T.S.

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.



- NOTES:
1. GENERAL MECHANICAL DAMAGE FOR CORRECT ROOT ZONE CALCULATION AND PLACEMENT OF TREE PROTECTION SHOWN ABOVE.
 2. BOARDS WILL NOT BE NAILED TO TREES DURING BUILDING OPERATIONS.
 3. FEEDER ROOTS SHOULD NOT BE CUT IN AN AREA INSIDE THE PROTECTED ROOT ZONE (PRZ).
 4. DAMAGED TRUNKS OR EXPOSED ROOTS SHOULD HAVE DAMAGED BARK REMOVED IMMEDIATELY AND NO PAINT SHALL BE APPLIED. EXPOSED ROOTS SHOULD BE COVERED WITH TOPSOIL IMMEDIATELY AFTER EXCAVATION IS COMPLETE. ROOTS SHALL BE PRUNED TO GIVE A CLEAN, SHARP SURFACE AMENABLE TO HEALING. ROOTS EXPOSED DURING HOT WEATHER SHOULD BE IRRIGATED TO PREVENT PERMANENT TREE INJURY. CARE FOR SERIOUS INJURY SHOULD BE PRESCRIBED BY A PROFESSIONAL FORESTER OR LICENSED TREE EXPERT.
 5. TREE LIMB REMOVAL, WHERE NECESSARY, WILL BE DONE AS NATURAL TARGET PRUNING TO REMOVE THE DESIRED BRANCH AS CLOSE AS POSSIBLE TO THE BRANCH COLLAR. THERE SHOULD BE NO FLUSH CUTS. FLUSH CUTS DESTROY A MAJOR DEFENSE SYSTEM OF THE TREE. NO TREE PAINT SHALL BE APPLIED. ALL CUTS SHALL BE MADE AT THE OUTSIDE EDGE OF THE BRANCH COLLAR. CUTS MADE TOO FAR BEYOND THE BRANCH COLLAR MAY LEAD TO FREE SPROUTING, CRACKS AND ROT. REMOVAL OF A "V" CROTCH SHOULD BE CONSIDERED FOR FREE STANDING SPECIMEN TREES TO AVOID FUTURE SPLITTING DAMAGE.

TREE PROTECTION DETAIL
N.T.S.

DRAINAGE AREA NO MORE THAN 1/4 AC. PER 100 FEET OF STRAW BALE DIKE FOR SLOPES LESS THAN 25%.

- 2 RE-BARS, STEEL PICKETS OR 2"x 2" STAKES 1 1/2' TO 2' IN GROUND, DRIVE STAKES FLUSH WITH BALES

ANGLE FIRST STAKE TOWARD PREVIOUSLY LAID BALE

FLOW

BOUND BALES PLACED ON CONTOUR

4" ENTRENCHMENT

- NOTES:
1. BALES SHALL BE PLACED AT THE TOP OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
 2. EACH BALE SHALL BE PLACED SO THE BINDINGS ARE HORIZONTAL.
 3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
 4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE PROMPTLY AS NEEDED.
 5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

STRAW BALE DIKE DETAIL
N.T.S.

REFERENCE:
"STANDARD FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY"
ADOPTED 2014 BY THE NEW JERSEY SOIL CONSERVATION COMMITTEE.

NO.	DATE	REVISIONS	BY	CHECKED
3	07/16/26	BID SET	JB	CC
2	06/08/26	REVISE PER NJDOT PS&E COMMENTS DATED JUNE 3, 2026.	SK	CC
1	05/08/26	REVISE TRAFFIC CONTROL PER NJDOT REVIEW LETTER DATED MAY 4, 2026.	SK	CC

Roberts
ENGINEERING GROUP LLC

CERTIFICATE OF AUTHORIZATION: 24GA2159100

CAMERON CORINI, PE
LICENSED PROFESSIONAL ENGINEER
STATE OF NEW JERSEY LIC. No. 24GE05403500

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SOIL EROSION AND SEDIMENT CONTROL DETAILS

IMPROVEMENTS TO
DUTCH NECK ROAD

BOROUGH OF HIGHTSTOWN,
MERCER COUNTY, NEW JERSEY

FILE NO:	DESIGNED BY:
H1807	CC
DRAWN BY:	CHECKED BY:
SK/KP	CC
DATE:	2/26/2026
SCALE:	As Shown
DWG. No.:	SD
SHEET No.	

10 OF 11

STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

Where Applicable

On exposed soils that have the potential for causing off-site environmental damage.

Methods and Materials

Site Preparation

- 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.
- Immediately prior to seeding and topsoiling, the subsoil shall be evaluated for compaction in accordance with the Standard for Land Grading.
- 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.
- Install needed erosion control practices or facilities such as diversions, grade-stabilization structures, channel stabilization measures, sediment basins, and waterways.

Seedbed Preparation

- Uniformly apply ground limestone and fertilizer to topsoil which has been spread and firmed, according to soil test recommendations such as offered by Rutgers Cooperative Extension Soil sample markers are available from the local Rutgers Cooperative Extension offices (<http://njnes.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 rate described above during seedbed preparation and repeat another one-half rate application of the same fertilizer within 3 to 5 weeks after seeding.
- Work time and fertilizer into the topsoil as nearly as practical to a depth of 4 inches with a disc, spring-tow 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.
- High acid producing soil. Soils having a pH of 4 or less or containing iron sulfide shall be covered with a minimum of 12 inches of soil having a pH of 5 or more before initiating seedbed preparation. See Standard for Management of High Acid-Producing Soils for specific requirements.

Seeding

- Select a mixture from Table 4-3 or use a mixture recommended by Rutgers Cooperative Extension or Natural Resources Conservation Service which is approved by the Soil Conservation District. Seed germination shall have been tested within 12 months of the planting date. No seed shall be accepted with a germination test date more than 12 months old unless retested.
- Seeding rates specified are required when a report of compliance is requested prior to actual establishment of permanent vegetation. Up to 50% reduction in rates may be used when permanent vegetation is established prior to a report of compliance inspection. These rates apply to all methods of seeding. Establishing permanent vegetation means 80% vegetative coverage with the specified seed mixture for the seeded area and moved once.
- Warm-season mixtures are grasses and legumes which maximize growth at high temperatures, generally 85°F and above. See Table 4-3 mixtures 1 to 7. Planting rates for warm-season grasses shall be the amount of Pure Live Seed (PLS) as determined by germination testing results.
- Cool-season mixtures are grasses and legumes which maximize growth at temperatures below 85°F. Many grasses become active at 65°F. See Table 4-3, mixtures 8-20. Adjustment of planting rates to compensate for the amount of PLS is not required for cool season grasses.

- Conventional Seeding** is performed by applying seed uniformly by hand, cyclone (centrifugal) seeder, drop seeder, drill or cultipacker seeder. Except for drilled, hydroseeded or cultipacked seedings, seed shall be incorporated into the soil within 24 hours of seedbed preparation to a depth of 1/4 to 1 1/2 inch, by tilling or dragging. Depth of seed placement may be 1/4 inch deeper on coarse-textured soil.
- After seeding, firming the soil with a corrugated roller will assure good seed-to-soil contact, restore capillarity, and improve seedling emergence. This is the preferred method. When performed on the contour, sheet erosion will be minimized and water conservation on site will be maximized.
- Hydroseeding** is a broadcast seeding method usually involving a truck, or trailer-mounted tank, with an agitation system and hydraulic pump for mixing seed, water and fertilizer and spraying the mix onto the prepared seedbed. **Mulch shall not be included in the tank with seed.** Short-fibered hydroseed may be applied with a hydroseeder following seeding. (also see Section 4-Mixing below). Hydroseeding is not a preferred seeding method because seed and fertilizer are applied to the surface and not incorporated into the soil. When poor seed to soil contact occurs, there is a reduced seed germination and growth.

Mulching

Mulching is required on all seeding. Mulch will protect against erosion before grass is established and will promote faster and earlier establishment. The existence of vegetation sufficient to control soil erosion shall be deemed compliance with this mulching requirement.

- Straw or Hay. Unrotted small grain straw, hay free of seeds, to be applied at the rate of 1-1/2 to 2 tons per acre (70 to 90 pounds per 1,000 square feet), except that where a crimper is used instead of a liquid mulch-binder (tackifying or adhesive agent), the rate of application is 3 tons per acre. Mulch chopper-blowers must not grind the mulch. Hay mulch is not recommended for establishing fine turf or lawns due to the presence of weed seed.

Application - Spread mulch uniformly by hand or mechanically so that at least 85% of the soil surface is covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000 square feet sections and distribute 70 to 90 pounds within each section.

Anchoring shall be accomplished immediately after placement to minimize loss by wind or water. This may be done by one of the following methods, depending upon the size of the area, steepness of slopes, and costs.

- Peg and Twine. Drive 8 to 10 inch wooden pegs to within 2 to 3 inches of the soil surface every 4 feet in all directions. Stakes may be driven before or after applying mulch. Secure mulch to soil surface by stretching twine between pegs in a criss-cross and a square pattern. Secure twine around each peg with two or more round turns.
- Mulch Nettings - Staple paper, cotton, or plastic nettings to the soil surface. Use a degradable netting in areas to be moved.

- Crimper (Mulch Anchorer/ Coker Tool) - A tractor-driven implement, somewhat like a disc harrow, especially designed to push or cut some of the broadcast long fiber mulch 3 to 4 inches into the soil so as to anchor it and leave part standing upright. This technique is limited to areas traversable by a tractor, which must operate on the contour of slopes. Straw mulch must be 3 tons per acre. No tackifying or adhesive agent is required.
- Liquid Mulch-Binders - May be used to anchor salt hay, hay or straw mulch.
 - Applications should be heavier at edges where wind may catch the mulch, in valleys, and at crests of banks. The remainder of the area should be uniform in appearance.
 - Use one of the following:
 - Organic and Vegetable Based Binders - Naturally occurring, powder-based, hydrophilic materials when mixed with water formulates a gel and when applied to mulch under satisfactory curing conditions will form membrane networks of insoluble polymers. The vegetable gel will be physiologically harmless and not result in a phytotoxic effect or impede growth of turf grass. Use at rates and weather conditions as recommended by the manufacturer to anchor mulch materials. Many new products are available, some of which may need further evaluation for use in this state.
 - Synthetic Binders - High polymer synthetic emulsion, miscible with water when diluted and following application to mulch, drying and curing, shall no longer be soluble or dispersible in water. Binder shall be applied at rates recommended by the manufacturer and remain tacky until germination of grass. Note: All names given above are registered trade names. This does not constitute a recommendation of these products to the exclusion of other products.

- Wood-fiber or paper-fiber mulch - shall be made from wood, plant fibers or paper containing no growth or germination inhibiting materials, used at the rate of 1,500 pounds per acre (or as recommended by the product manufacturer) and may be applied by a hydroseeder. **Mulch shall not be mixed in the tank with seed.** Use is limited to flatter slopes and during optimum seeding periods in spring and fall.
- Pelletized mulch - compressed and extruded paper and/or wood fiber product, which may contain co-polymers, tackifiers, fertilizers and coloring agents. The dry pellets, when applied to a seeded area and watered, form a mulch mat. Pelletized mulch shall be applied in accordance with the manufacturer's recommendations. Mulch may be applied by hand or mechanical spreader at the rate of 60-75 lbs/1,000 square feet and activated with 0.2 to 0.4 inches of water. This material has been found to be beneficial for use on small lawn or recreation areas, seeded areas where weed-seed free mulch is desired, or on sites where straw mulch and tackifier agent are not practical or desirable. Applying the full 0.2 to 0.4 inches of water after spreading pelletized mulch on the seed bed is extremely important for sufficient activation and expansion of the mulch to provide soil coverage.

Irrigation (where feasible)

If soil moisture is deficient supply new seeding with adequate water (a minimum of 1/4 inch applied up to twice a day until vegetation is well established). This is especially true when seedings are made in abnormally dry or hot weather or on droughty sites.

Topdressing

Since soil organic matter content and slow release nitrogen fertilizer (water insoluble) are prescribed in Section 2A - Seedbed Preparation in this Standard, no follow-up of topdressing is mandatory. An exception may be made where gross nitrogen deficiency exists in the soil to the extent that turf failure may develop. In that instance, topdress with 10-10-10 or equivalent at 300 pounds per acre or 7 pounds per 1,000 square feet every 3 to 5 weeks until the gross nitrogen deficiency in the turf is alleviated.

Establishing Permanent Vegetative Stabilization

The quality of permanent vegetation rests with the contractor. The timing of seeding, preparing the seedbed, applying nutrients, mulch and other management are essential. The seed application rates in Table

4-3 are required when a Report of Compliance is requested prior to actual establishment of permanent vegetation. Up to 50% reduction in application rates may be used when permanent vegetation is established prior to requesting a Report of Compliance from the district. These rates apply to all methods of seeding. **Establishing permanent vegetation means 80% vegetative cover (of the seeded species) and moved once.** Note this designation of moved once does not guarantee the permanency of the turf should other maintenance factors be neglected or otherwise mismanaged.

APPLICATION	EXCESSIVELY DRAINED	WELL TO MODERATELY WELL DRAINED	SOMEWHAT POORLY TO POORLY DRAINED
RESIDENTIAL/COMMERCIAL LOTS	10, 12, 15	6, 10, 12, 13, 14, 15	16
PODS, DITCHES, CHANNELS, BANKS, DOKS, BERMS AND DAMS	2, 5, 6, 10	5, 6, 7, 8, 9, 15	2, 8, 16, 17
DRAINAGE DITCHES, SWALES, DETENTION BASINS	2, 9, 11	2, 7, 9, 11, 12, 17	2, 9, 16, 17
FILTER STRIPS	12	11, 12	11, 12
GRASSES WATERWAY, SPILLWAYS	2, 3, 9, 10, 12	6, 7, 9, 10, 11, 12	2, 9, 11, 12
RECREATION AREAS, ATHLETIC FIELDS	5, 12, 15, 18	12, 13, 14, 15, 18	16
SPECIAL PROBLEM SITES STEEP SLOPES AND BANKS, ROWS, BARRIERS, ETC.	2, 3, 4, 6	2, 3, 5, 7, 8, 9, 10, 15, 18	2, 9, 10, 11, 12
SAND GRAVEL PITS, SANITARY LANDFILLS	1, 2, 3, 4, 6, 20	1, 2, 3, 4, 5, 6, 8, 15, 20	2, 8
DRIED MATERIAL, SPOILBANKS, BARRIERS AREAS	2, 3, 6, 20	2, 3, 6, 11	2, 8
STREAMBANKS & SHOULDER	2, 8, 20, 21a	2, 8, 19b, 20, 21a, 21b	2, 8, 19b, 21a, b, c, d
UTILITY RIGHTS-OF-WAY	3, 7, 180	3, 7	8, 9, 17

1. REFER TO SPEC. SURVEYS FOR DRAINAGE CLASS DESCRIPTIONS.
2. REFER TO SPEC. RECOMMENDATIONS FOR ADDITIONAL SEED MIXTURES.
3. SEE APPENDIX B FOR DESCRIPTION OF TURF GRASSES AND CULTIVARS.

TABLE 4-3 SEED MIXTURES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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WARM SEASON SEED MIXTURES 15. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER (SEE NOTE AT RIGHT) <table><tr><td>1. SWITCHGRASS (BLENDED)</td><td>15</td><td>35</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>2. COASTAL PANICGRASS PLUS OR LEALFAIRA</td><td>15</td><td>35</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>C-D</td></tr><tr><td>3. BENTGRASS OR SWITCHGRASS REDTOP</td><td>20</td><td>45</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4. SWITCHGRASS (BLENDED) LITTLE BLUE STONE, SMOOTH PASTURE PLUS, PAPERBARK PEA</td><td>10</td><td>25</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5. SWITCHGRASS (BLENDED) LITTLE BLUE STONE, SANDHILL GRASS, COASTAL PEA GRASS</td><td>15</td><td>35</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>C-D</td></tr><tr><td>6. BENTGRASS OR SWITCHGRASS (BLENDED) ZOSTERAGRASS (SEEDS, ZOSTERAGRASS (SPRIGS))</td><td>15</td><td>35</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>A-D</td></tr></table> COOL SEASON SEED MIXTURES <table><tr><td>7. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER (SEE NOTE AT RIGHT)</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>B-D</td></tr><tr><td>8. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>150</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>B-D</td></tr><tr><td>9. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>10</td><td>25</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>B-D</td></tr><tr><td>10. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>20</td><td>40</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>B-D</td></tr><tr><td>11. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>12</td><td>25</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>12. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>15</td><td>35</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>13. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>14. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>15. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>150</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>16. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>175</td><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>A-C</td></tr><tr><td>17. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>18. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>19. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>20</td><td>50</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>A-B</td></tr><tr><td>20. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>130</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>21. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>22. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>23. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>130</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>24. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>25. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>26. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>12</td><td>0.35</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>27. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>28. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>29. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>30. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>31. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>32. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>33. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>34. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>35. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>36. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>37. 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FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>58. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>59. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>60. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>61. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>62. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>63. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>64. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>65. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>66. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>67. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>68. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER</td><td>45</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>69. 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FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	10	25										B-D	10. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	20	40										B-D	11. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	12	25											12. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	15	35											13. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											14. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											15. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	150	1											16. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	175	4										A-C	17. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											18. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											19. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	20	50										A-B	20. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	130	1											21. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											22. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											23. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	130	1											24. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											25. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											26. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	12	0.35											27. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											28. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											29. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											30. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											31. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											32. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											33. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											34. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											35. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											36. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											37. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											38. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											39. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											40. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											41. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											42. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											43. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											44. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											45. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											46. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											47. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											48. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											49. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											50. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											51. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											52. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											53. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											54. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											55. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											56. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											57. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											58. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											59. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											60. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											61. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											62. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											63. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											64. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											65. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											66. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											67. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											68. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											69. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											70. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											71. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											72. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											73. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											74. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											75. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											76. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											77. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											78. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											79. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											80. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											81. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											82. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											83. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											84. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											85. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											86. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											87. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											88. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											89. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											90. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											91. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											92. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											93. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											94. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											95. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											96. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											97. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											98. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											99. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											100. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											101. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											102. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											103. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											104. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											105. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											106. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											107. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											108. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											109. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											110. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											111. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											112. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											113. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											114. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											115. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											116. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1											117. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER	45	1				</
1. SWITCHGRASS (BLENDED)	15	35																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
2. COASTAL PANICGRASS PLUS OR LEALFAIRA	15	35										C-D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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4. SWITCHGRASS (BLENDED) LITTLE BLUE STONE, SMOOTH PASTURE PLUS, PAPERBARK PEA	10	25																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
5. SWITCHGRASS (BLENDED) LITTLE BLUE STONE, SANDHILL GRASS, COASTAL PEA GRASS	15	35										C-D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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7. FINE TURF (BLENDED) HARD TURF (BLENDED) STRONG CREEPING FESCUE OR PERENNIAL RYEGRASS PLUS WHITE CLOVER (SEE NOTE AT RIGHT)	45	1										B-D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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