CERTIFIED LIST OF PROPERTY OWNERS WITHIN 200' OF LOT 4, BLOCK 3301 TOWNSHIP OF NEPTUNE

BLOCK	LOT	QUAL	CLA	PROPERTY OWNER		PROPERTY L	OCAT10N
2801				BD OF ED-TOWNSHIP OF NEP1 60 NEPTUNE BLVD NEPTUNE, NJ	UNE	1 SUMMERFIELD	LANE
3001	7		2	DELLET, CYNTHIA E 25 BOULDER DRIVE KEY WEST, FL	33040	3322 HIGHWAY	33
3001	8		2	DELLETT, MACK DAVISON 3320 HIGHWAY 33 NEPTUNE, NJ		3320 HIGHWAY	33
3001	9		4A	C & D LAW OFFICES, LLC 3318 HIGHWAY 33 NEPTUNE, NJ		3318 HIGHWAY	33
3001	10		4A	MICHAEL J ELY ENTERPRISES 3316 CORLIES AVENUE NEPTUNE TWP, NJ		3316 HIGHWAY	33
3001	11		4A	MAMTA HOSPITALITY, INC. 108 FELLSWOOD DRIVE MOORESTOWN, NJ	08057	3310 HIGHWAY	33
3301	2.01		2	HELEOTIS, DIANE & THEODOR 3317 HIGHWAY 33 NEPTUNE, NJ	07753	3317 HIGHWAY	33
3301	3		15D			3311 HIGHWAY	33
3301	4		2	GALILEE EGLISE ADVANTIST 3313 HIGHWAY 33 NEPTUNE, NJ	E CHURCH 07753	3313 HIGHWAY	33
3301	5		2	ALLOCCA, PAUL & PATRICIA 3315 HIGHWAY 33 NEPTUNE, NJ	07753	3315 HIGHWAY	33
3301	6		4A	3321 HIGHWAY 33 NEPTUNE, 2066 RICHMOND AVENUE STATEN ISLAND, NY		3321 HIGHWAY	33
3401	22		15C	TOWNSHIP OF NEPTUNE PO BOX 1125	A=== /	30 HILL DR	

Please be advised that pursuant to Chapter 245, P.L. 1991, As of August 7th 1991, any Applicant seeking a Major Sub-division or Site Plan Approval, is required to provide a Notice of Public Hearing to all Public Utilities and CATV companies that own land or Possess any easement that is within two hundred feet (200') of the proposed development

Below is the list of Public Utilities which provide this service to the Neptune area:

New Jersey- American Water Company, Inc. Attn: Donna Short GIS Supervisor 1025 Laurel Oak Road Voorhees, N.J. 08043

> Verizon Legal Department 17th Floor C/o Land Use Matters 540 Broad Street Newark, N.J. 07102

New Jersey Natural Gas Company Attn: Right of Way Department 1415 Wyckoff Road Wall Twp, N.J. 07719

Jersey Central Power & Light Company Attn: Land Use Matters 300 Madison Avenue Morristown, N.J. 07960

> Monmouth Cablevision Attn: Land Use Matters 1501 18th Avenue Wall Twp, N.J. 07719

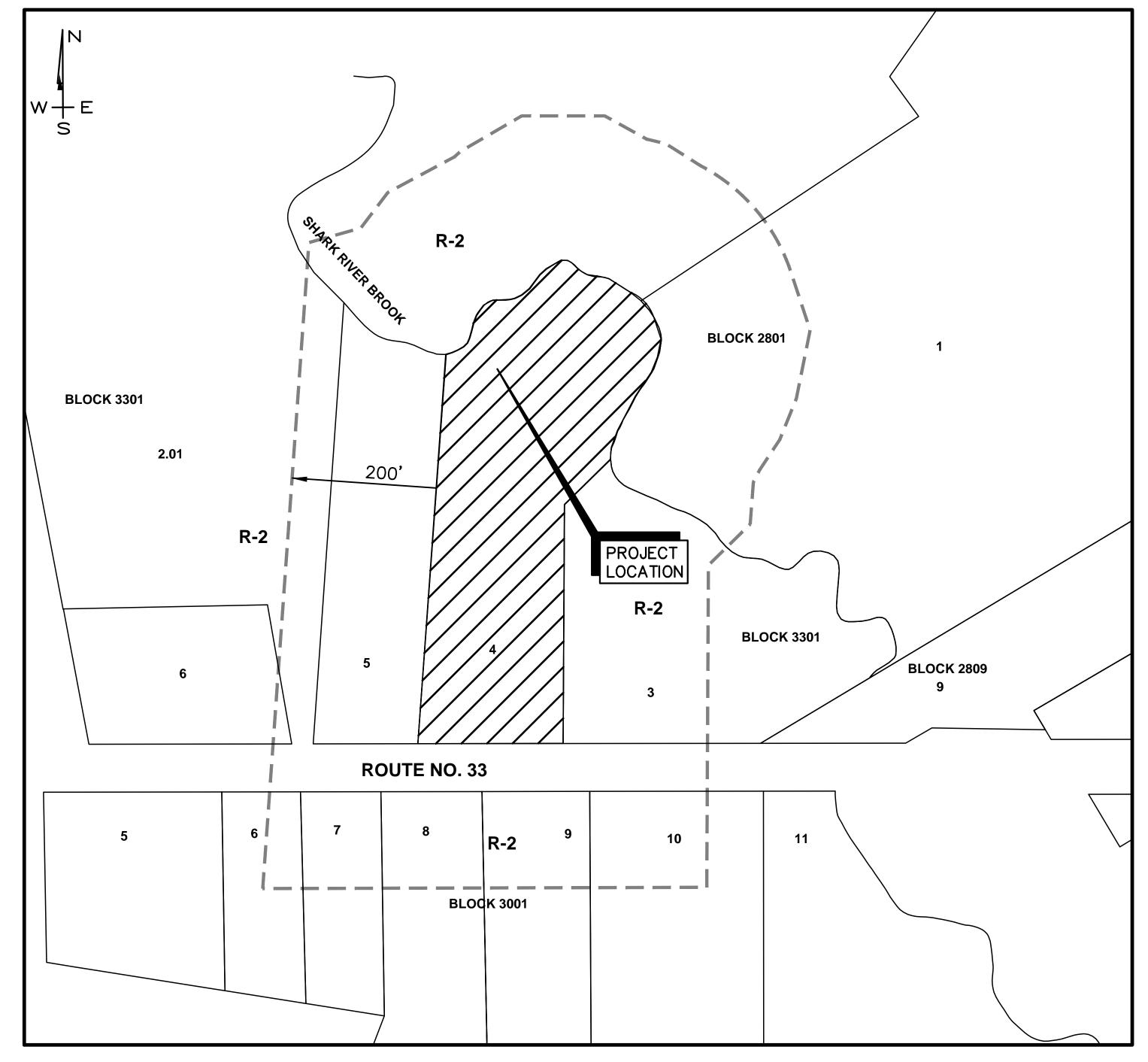
SHT.	DESCRIPTION	LATEST REVISION
1	COVER SHEET	09/25/23
2	EXISTING CONDITIONS PLAN	09/25/23
3	EXISTING TREE SURVEY PLAN	09/25/23
4	DEMOLITION PLAN	09/25/23
5	DIMENSION & CIRCULATION PLAN AND CONSTRUCTION DETAILS	09/25/23
6	SIGHT TRIANGLE PLAN	09/25/23
7	GRADING PLAN AND CONSTRUCTION DETAILS	09/25/23
8	UTILITY PLAN AND PROFILES AND CONSTRUCTION DETAILS	09/25/23
9	SOIL EROSION & SEDIMENT CONTROL PLAN	09/25/23
10	SOIL EROSION AND SEDIMENT CONTROL DETAILS	09/25/23
11	LANDSCAPE AND LIGHTING PLAN AND DETAILS	09/25/23
12	CONSTRUCTION DETAILS	09/25/23
13	NJ DEP PERMIT PLAN	09/25/23

BOARD SECRETARY PLANNING BOARD ENGINEER RESOLUTION NUMBER

PRELIMINARY & FINAL SITE PLAN FOR

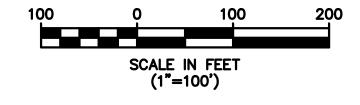
GALILEE EGLISE ADVENTISTE, INC. PROPOSED CHURCH LOT 4, BLOCK 3301

TOWNSHIP OF NEPTUNE MONMOUTH COUNTY, NEW JERSEY



LEGEND R-2: SINGLE FAMILY RESIDENTIAL 4 - LOT NUMBER BLOCK 3001 - BLOCK NUMBER

> 200' RADIUS AND ZONNING MAP SCALE: 1"= 100'

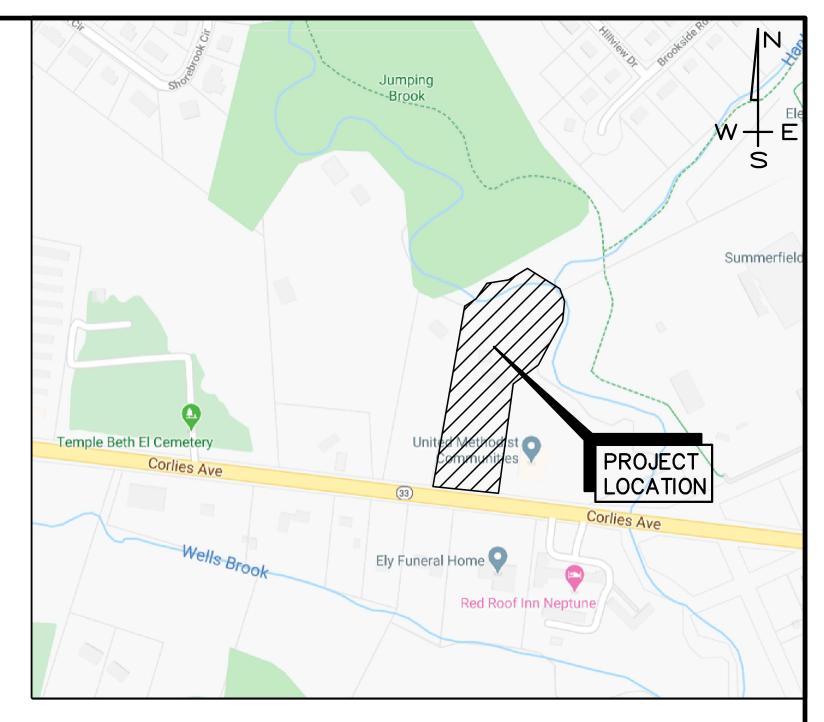


OWNER AND APPLICANT:

GALILEE EGLISE ADVENTISTE, INC. 3 RYJAC COURT BRICK, NEW JERSEY 08724

ARCHITECT:

BUCKMAN ARCHITECTURAL GROUP 1127 WATCHUNG AVENUE PLAINFIELD, NEW JERSEY 07060 TEL.: (908) 241-3457



SITE LOCATION MAP SCALE: 1"= 200'

GENERAL NOTES

- THE PROPERTY IS KNOWN AS LOT 4, BLOCK 3301 AS SHOWN ON SHEET 33 OF THE OFFICIAL TAX MAP OF THE TOWNSHIP OF NEPTUNE, MONMOUTH COUNTY, NEW JERSEY. LAST REVISED APRIL 8,
- . THE APPLICANT PROPOSES TO CONSTRUCT A 4,000 SF CHURCH FACILITY WITH A BASEMENT LEVEL, WHILE THE EXISTING SINGLE FAMILY RESIDENCE WILL BE UTILIZED AS OFFICES FOR CHURCH PERSONNEL
- 4. THE PROPERTY IS LOCATED IN THE TOWNSHIP'S LOW DENSITY SINGLE FAMILY RESIDENTIAL (R-2) ZONE AND CONTAINS A TOTAL TRACT AREA OF 3.24 ACRES
- 5. R-2 ZONE (HOUSE OF WORSHIP) REQUIREMENTS

MINIMUM REQUIREMENTS	REQUIRED	EXISTING	PROVIDED
LOT AREA	12,500 SF	141,136.89 SF	141,136.89 SF
FRONT YARD SETBACK	15 FT	N/A	293.24 FT
SIDE YARD SETBACK	20 FT	N/A	21.82 FT
REAR YARD SETBACK	20 FT	N/A	>20 FT
SET BACK FROM RESIDENTIAL PROPERTY LINE	1.5 X HGT. OF MAIN ROOF LINE = 1.5X20=30 FT	N/A	11.14 FT *
SIDE YARD PARKING LOT SET BACK	20 FT	N/A	19.2 FT *
REAR YARD PARKING LOT SETBACK	10 FT	N/A	>10 FT
MAXIMUM REQUIREMENTS			
NUMBER OF STORIES	2.5	N/A	1
BUILDING HEIGHT	35 FT	N/A	< 35 FT
PARKING REQUIREMENTS 1 SPACE/4 SEATS =	250/4=63	N/A	64

. VARIANCE REQUESTED						
R-2 ZONE (ACCESSORY RESIDENCE) REQUIREMENTS						
MINIMUM REQUIREMENTS	REQUIRED	EXISTING	PROVIDED			
LOT AREA	10,000 SF	141,135.89 SF	141,136.89 SF			
LOT WIDTH	100 FT	205.11 FT	205.11FT			
LOT FRONTAGE	100 FT	205.11 FT	205.11 FT			
LOT DEPTH	100 FT	600 FT	600 FT			
FRONT YARD SETBACK	25 FT	320.24 FT	320.24 FT			
SIDE YARD SETBACK	10 FT	11.57 FT	11.57 FT			
COMBINED SIDE YARD SETBACK	25 FT	62.36 FT	N/A			
REAR YARD SETBACK	30 FT	> 30 FT.	> 30 FT			
IMPROVABLE AREA	2.400 SF					
MAXIMUM REQUIREMENTS						
DENSITY (DU/ACRE)	4.30	0.31	0.31			
BUILDING COVER	30%	2.53%	4.88%			
TOTAL LOT COVER	40%	6.60%				
BUILDING HEIGHT	35 FT	25 FT	25 FT			
NUMBER OF STORIES	2.5	1.5	1.5			

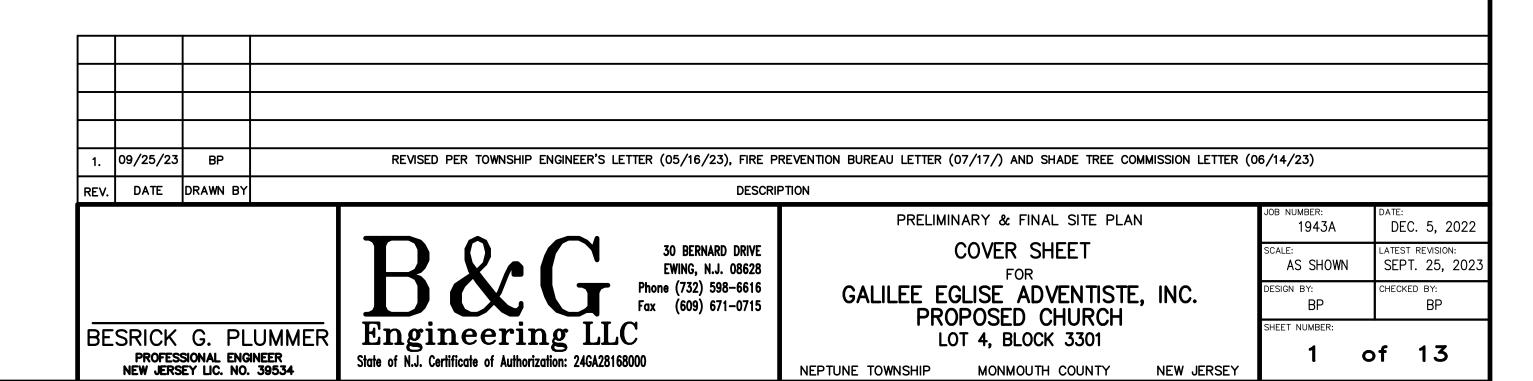
- 7. THE APPLICANT IS REQUESTING THE FOLLOWING VARIANCES FROM THE TOWNSHIP'S ORDINANCE. a) THE APPLICANT IS REQUESTING A VARIANCE FOR HANDICAP PARKING SIZES,
- PROVIDED=8 FT X 18 FT, (12FT X 18 FT REQUIRED PER SECTION 412.17B). b) THE APPLICANT IS REQUESTING A VARIANCE FOR SETBACK FROM RESIDENTIAL PROPERTY LINE, 11.14 FT SETBACK PROVIDED FROM RESIDENTIAL PROPERTY (30 FT REQUIRED PER SECTION
- c) THE APPLICANT IS REQUESTING A VARIANCE DUE TO PARKING LOT LOCATION. NO PARKING LOT IS ALLOWED IN FRONT YARD PER SECTION 412.19A(2)(a).
- d) THE APPLICANT IS REQUESTING A VARIANCE FOR SIZE OF DIRECTIONAL SIGNS (REQUIRED IS
- 3 SF MAXIMUM), (6.25 SF MAX PROVIDED). e) THE APPLICANT IS REQUESTING A VARIANCE FOR PARKING LOT SETBACK FROM SIDE PROPERTY
- LINE (REQUIRED IS 20 FT) (19.2 FT PROVIDED). f) THE APPLICANT IS REQUESTING A VARIANCE ON 50 FT BUFFER REQUIREMENT, PER SECTION
- q) THE APPLICANT IS REQUESTING A WAIVER FROM PROVIDING SIDEWALKS ALONG ROUTE 33, PER
- h) THE APPLICANT IS REQUESTING A DESIGN WAIVER FROM EXTENSIVE ON-SITE SIDEWALK INSTALLATION, PER SECTION 519B(14), SIDEWALK FROM PARKING LT TO THE PROPOSED
- 8. BOUNDARY & TOPOGRAPHIC INFORMATION SHOWN ON SHEET 2 IS FROM A PLAN ENTITLED "BOUNDARY AND TOPOGRAPHIC SURVEY, 3313 STATE HIGHWAY ROUTE NO. 33, LOT 4. BLOCK 3301, SITUATED IN TOWNSHIP OF NEPTUNE, MONMOUTH COUNTY, NEW JERSEY" DATED DECEMBER 9, 2019. PREPARED BY HERBERT G. MCDONALD, FOR HERBERT G. MCDONALD ASSOCIATES, INC. PROFESSIONAL LAND SURVEYOR LIC NO. 34030.
- ADDITIONAL TOPOGRAPHIC INFORMATION (REAR OF SITE AND OFFSITE) IS BASED ON MONMOUTH

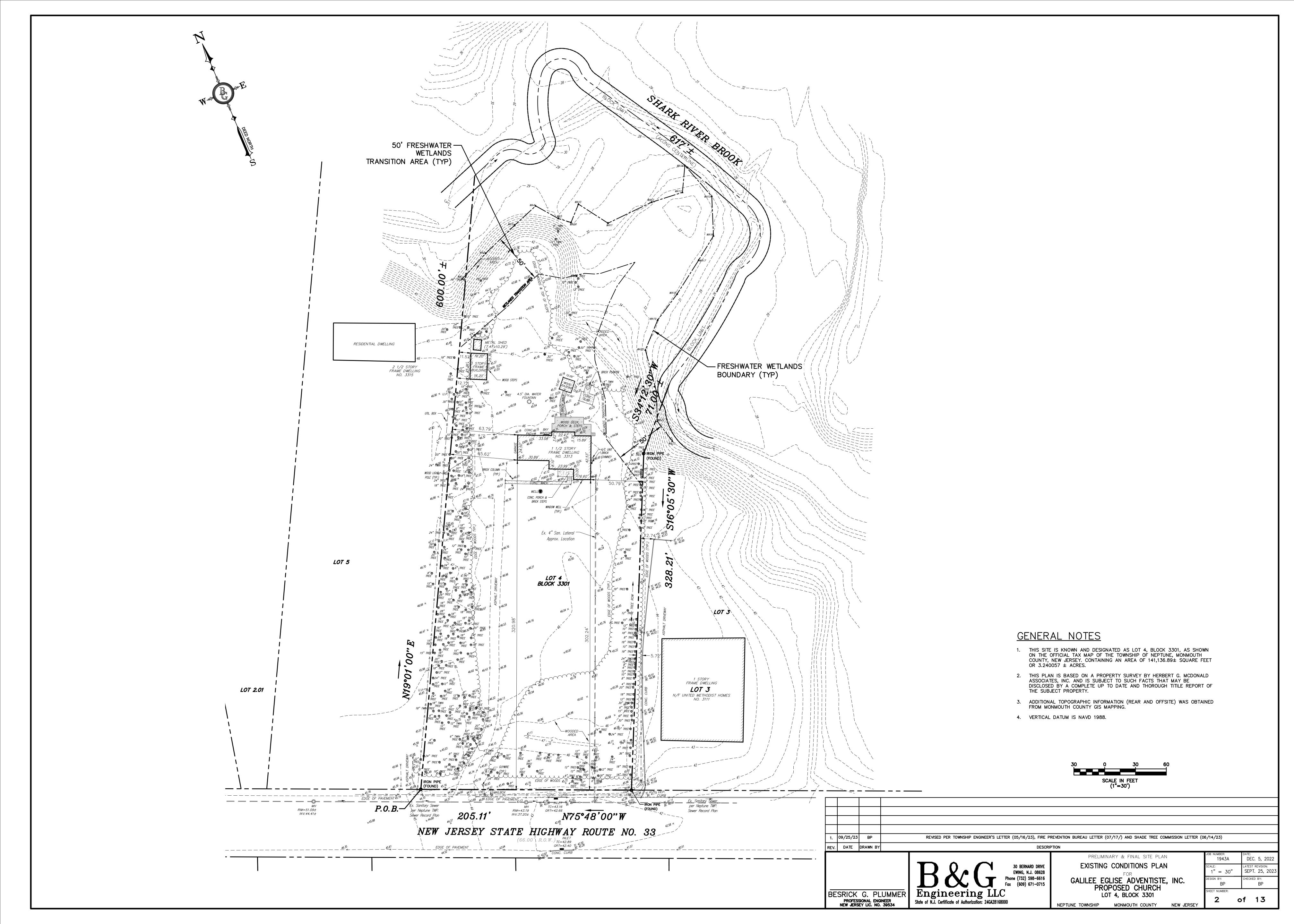
9. VERTICAL DATUM IS BASED ON NAVD 88.

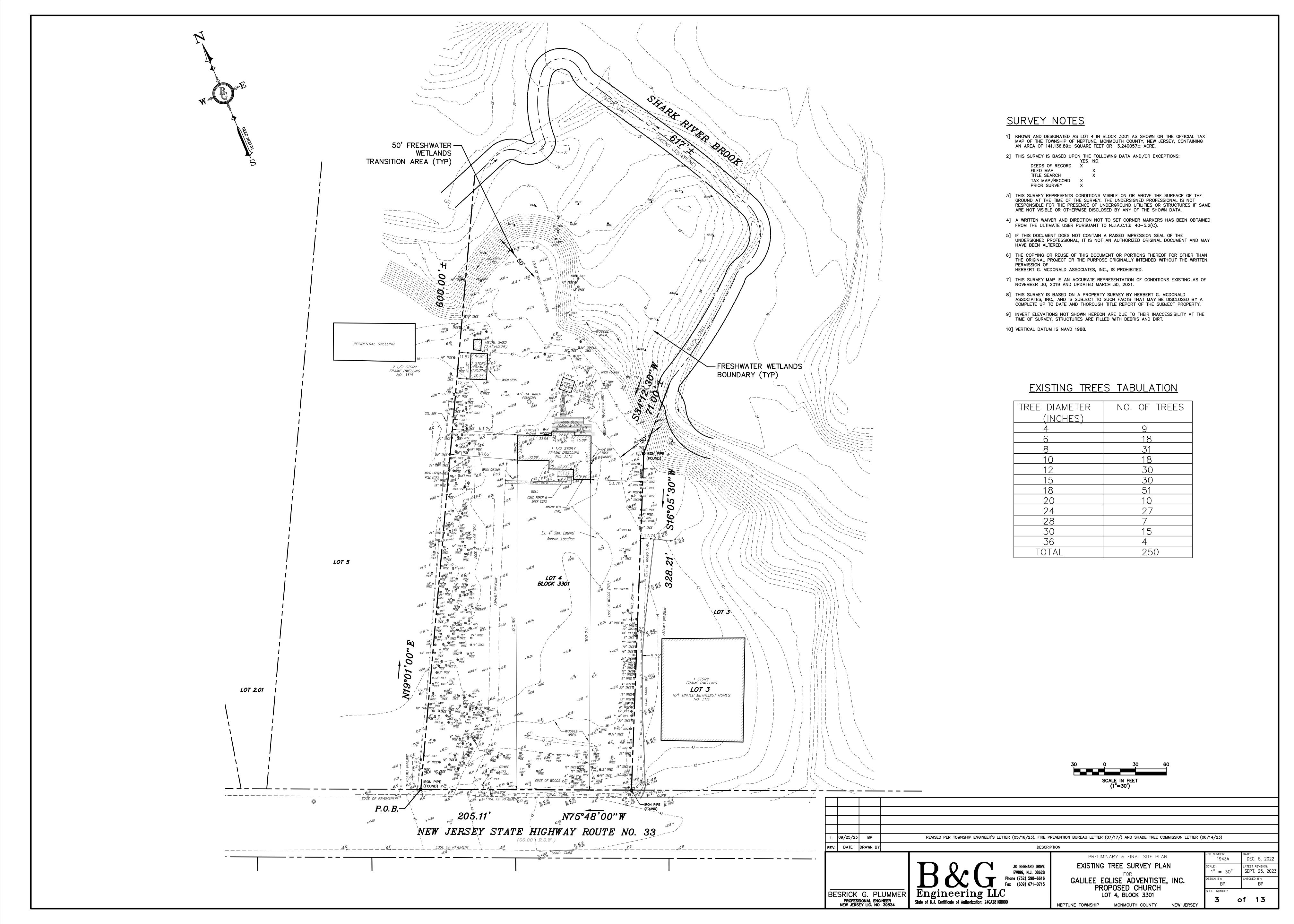
- ONLY AND MAY NOT REPRESENT ALL REQUIRED UTILITY RELOCATIONS. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING AND/OR COORDINATING ALL REQUIRED UTILITY RELOCATIONS IN COOPERATION WITH THE RESPECTIVE UTILITY COMPANIES/AUTHORITIES.
- 13. DO NOT SCALE DRAWINGS AS THEY PERTAIN TO ADJACENT AND SURROUNDING PHYSICAL CONDITIONS, BUILDINGS, STRUCTURES, ETC. THEY ARE SCHEMATIC ONLY, EXCEPT WHERE DIMENSIONS ARE SHOWN THERETO.
- 14. THIS IS A SITE DEVELOPMENT PLAN AND UNLESS SPECIFICALLY NOTED ELSEWHERE HEREON IS NOT A SURVEY.
- 15. ALL TRAFFIC SIGNAGE AND STRIPING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 16. THIS SET OF PLANS HAS BEEN PREPARED FOR PURPOSES OF MUNICIPAL AND AGENCY REVIEW AND APPROVAL. THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL STAMPED "ISSUED FOR CONSTRUCTION", ALL APPROVALS REQUIRED HAVE BEEN OBTAINED AND ALL CONDITIONS OF APPROVAL HAVE BEEN SATISFIED. THIS SHALL INCLUDE APPROVAL OF ALL CATALOG CUTS, SHOP DRAWINGS AND/OR DESIGN CALCULATIONS AS REQUIRED BY THE MUNICIPAL ENGINEER.
- SOURCES AND IS NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO EXCAVATION. WHERE EXISTING UTILITIES ARE TO BE CROSSED BY PROPOSED CONSTRUCTION, TEST PITS SHALL BE DUG BY THE CONTRACTOR PRIOR TO CONSTRUCTION TO ASCERTAIN EXISTING INVERTS, MATERIALS AND SIZES. TEST PIT INFORMATION SHALL BE GIVEN TO THE ENGINEER PRIOR TO CONSTRUCTION TO PERMIT ADJUSTMENTS AS REQUIRED TO AVOID CONFLICTS.

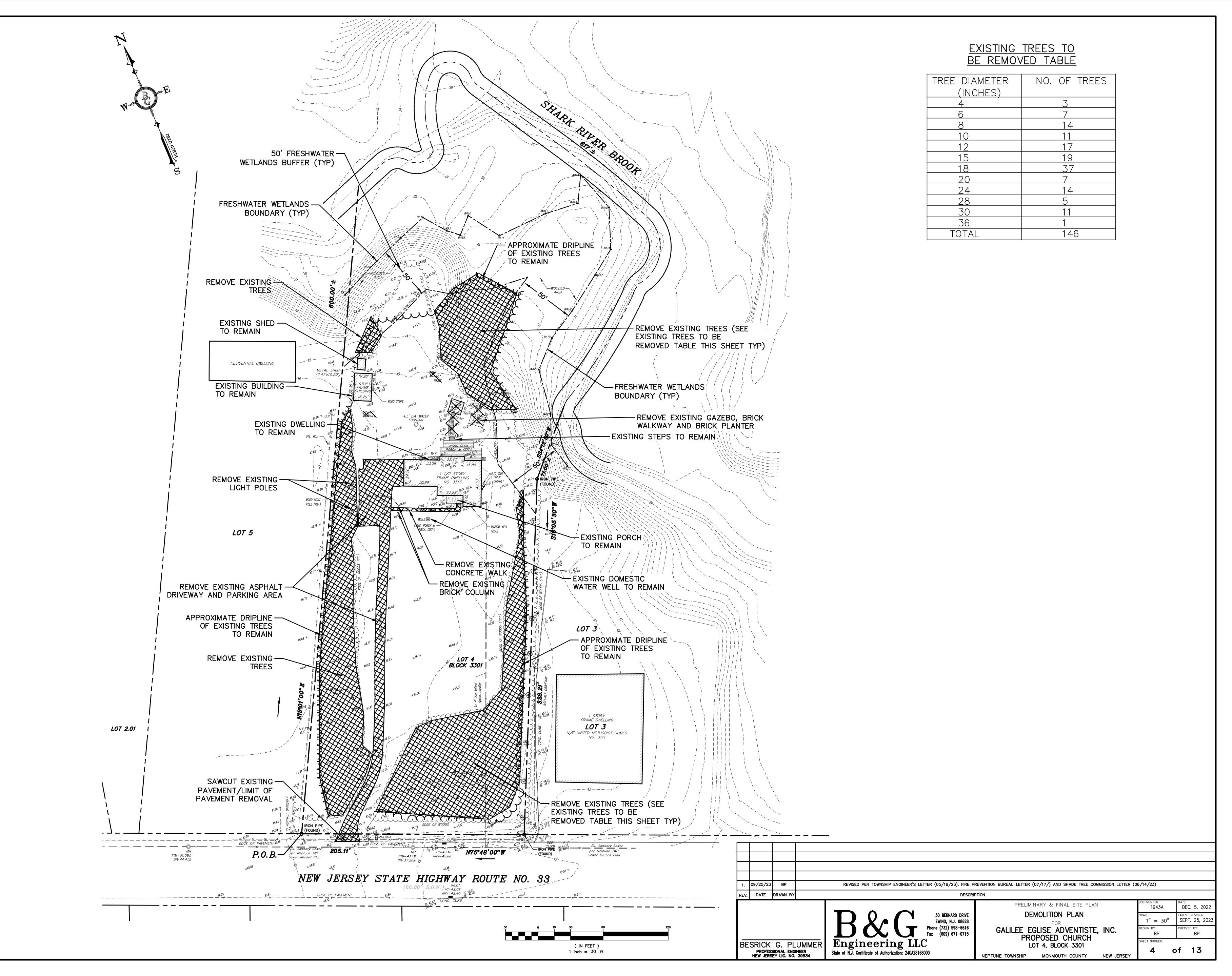
17. EXISTING UTILITY INFORMATION SHOWN HERON HAS BEEN COLLECTED FROM VARIOUS

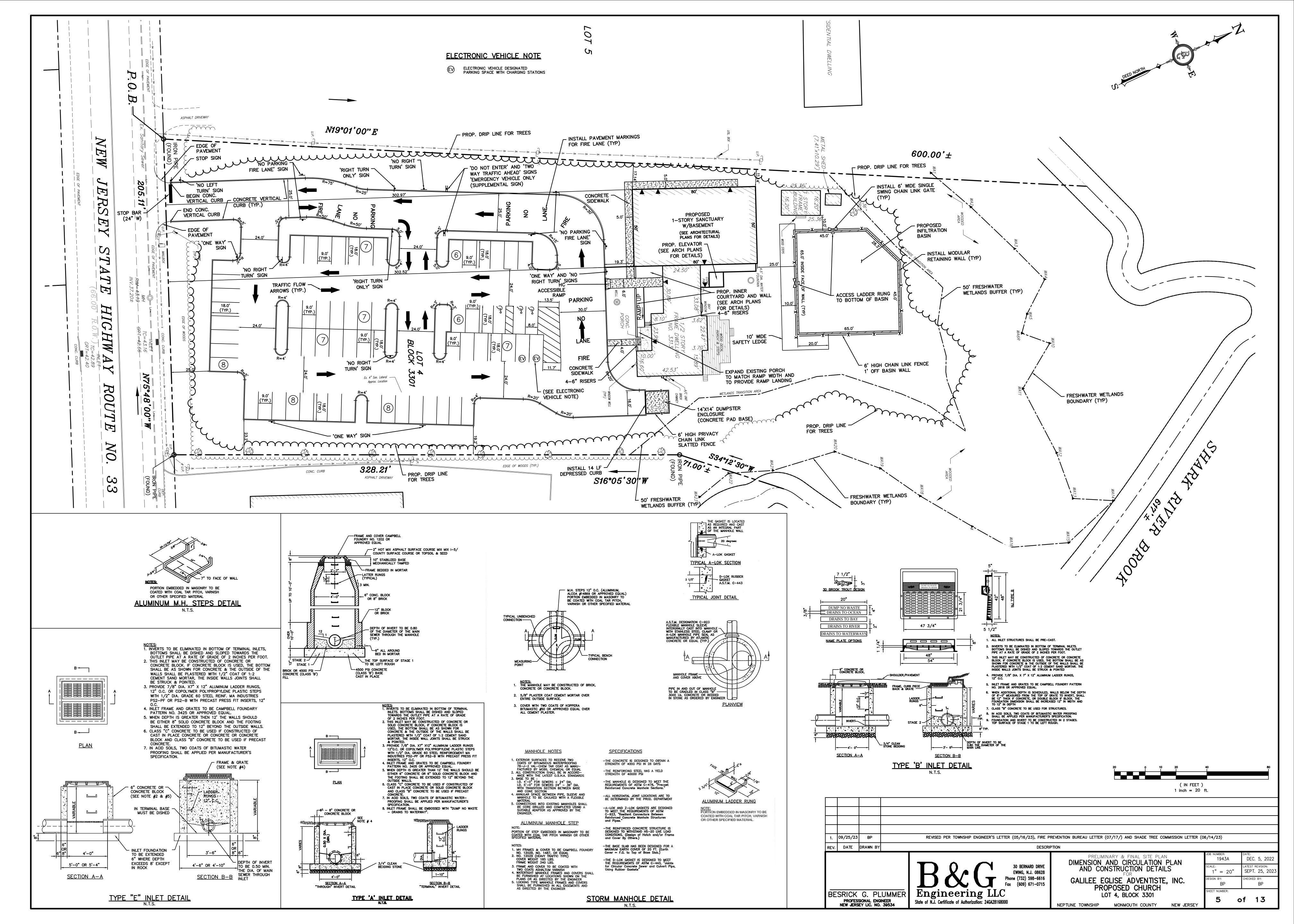
- 18. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION FOR SITE IMPROVEMENTS SHOWN HEREON SHALL BE IN ACCORDANCE WITH:
- A. N.J. DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", 2001; AS SUPPLEMENTED.
- B. CURRENT, PREVAILING MUNICIPAL, COUNTY AND/OR STATE AGENCY SPECIFICATIONS, STANDARDS, CONDITIONS AND REQUIREMENTS.
- C. CURRENT, PREVAILING UTILITY COMPANY/AUTHORITY SPECIFICATIONS, STANDARDS, AND REQUIREMENTS. D. CURRENT MANUFACTURER'S SPECIFICATIONS, STANDARDS AND REQUIREMENTS.
- E. FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. F. RESIDENTIAL SITE IMPROVEMENT STANDARDS.
- 19. THE CONTRACTOR SHALL NOTIFY THE UNDERSIGNED PROFESSIONAL IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER MATERIALLY FROM THOSE REPRESENTED HEREON. SUCH CONDITIONS COULD RENDER THE DESIGNS SHOWN HEREON INAPPROPRIATE
- 20. THE CONTRACTOR IS RESPONSIBLE FOR PROJECT SAFETY INCLUDING PROVISION OF ALL APPROPRIATE SAFETY DEVICES AND TRAINING REQUIRED. 21. ALL UTILITIES AND OTHER SITE IMPROVEMENTS TO BE MAINTAINED BY THE APPLICANT
- AT THEIR SOLE EXPENSE. 22. ALL TEMPORARY ENCROACHMENTS INTO THE PUBLIC RIGHT-OF-WAY SHALL REQUIRE
- TOWNSHIP COUNCIL AND N.J.D.O.T. APPROVAL. 23. ALL CONSTRUCTION STAGING SHALL BE DONE ON SITE UNLESS AN ENCROACHMENT FOR
- SAME SHALL BE APPROVED BY CITY COUNCIL. 24. TRACKING PADS SHALL BE INSTALLED AT ALL CONSTRUCTION EXITS AND ALL STREET
- CLEANING SHALL BE PERFORMED AS PER THE DIRECTION OF THE DIRECTOR OF PUBLIC WORKS. 25. LIST OF PERMITS OR APPROVALS TO BE OBTAINED:
- PRELIMINARY AND FINAL MINOR SITE PLAN APPROVAL A. MONMOUTH COUNTY PLANNING BOARD
- B. NEPTUNE TOWNSHIP ROAD OPENING PERMIT C. NEPTUNE TOWNSHIP PERFORMANCE BOND
- D. NEPTUNE TOWNSHIP PUBLIC WORKS DEPARTMENT E. NJDOT MINOR ACCESS PERMIT
- F. FREEHOLD SOIL EROSION AND SEDIMENT CONTROL PERMIT G. NEPTUNE TOWNSHIP TREE REMOVAL PERMIT
- 26. THE SITE IS LOCATED IN FLOOD ZONE X, AN AREA OF MINIMUM FLOOD ZONE, PER FLOOD INSURANCE RATE MAP OF MONMOUTH COUNTY (MAP NUMBER 34025C0329F) DATED
- 27. THESE GENERAL NOTES APPLY TO ALL SHEETS IN THE SET.

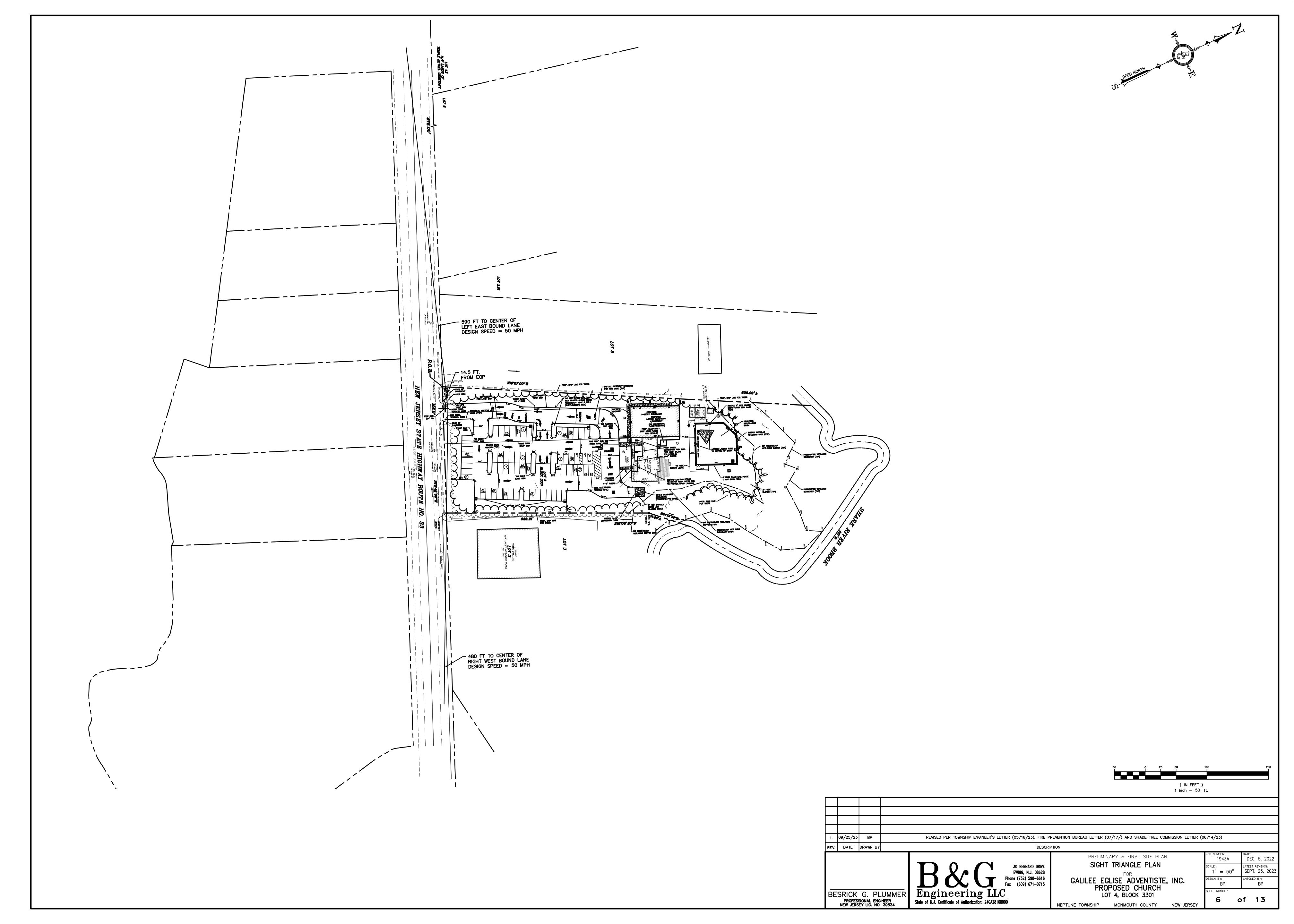


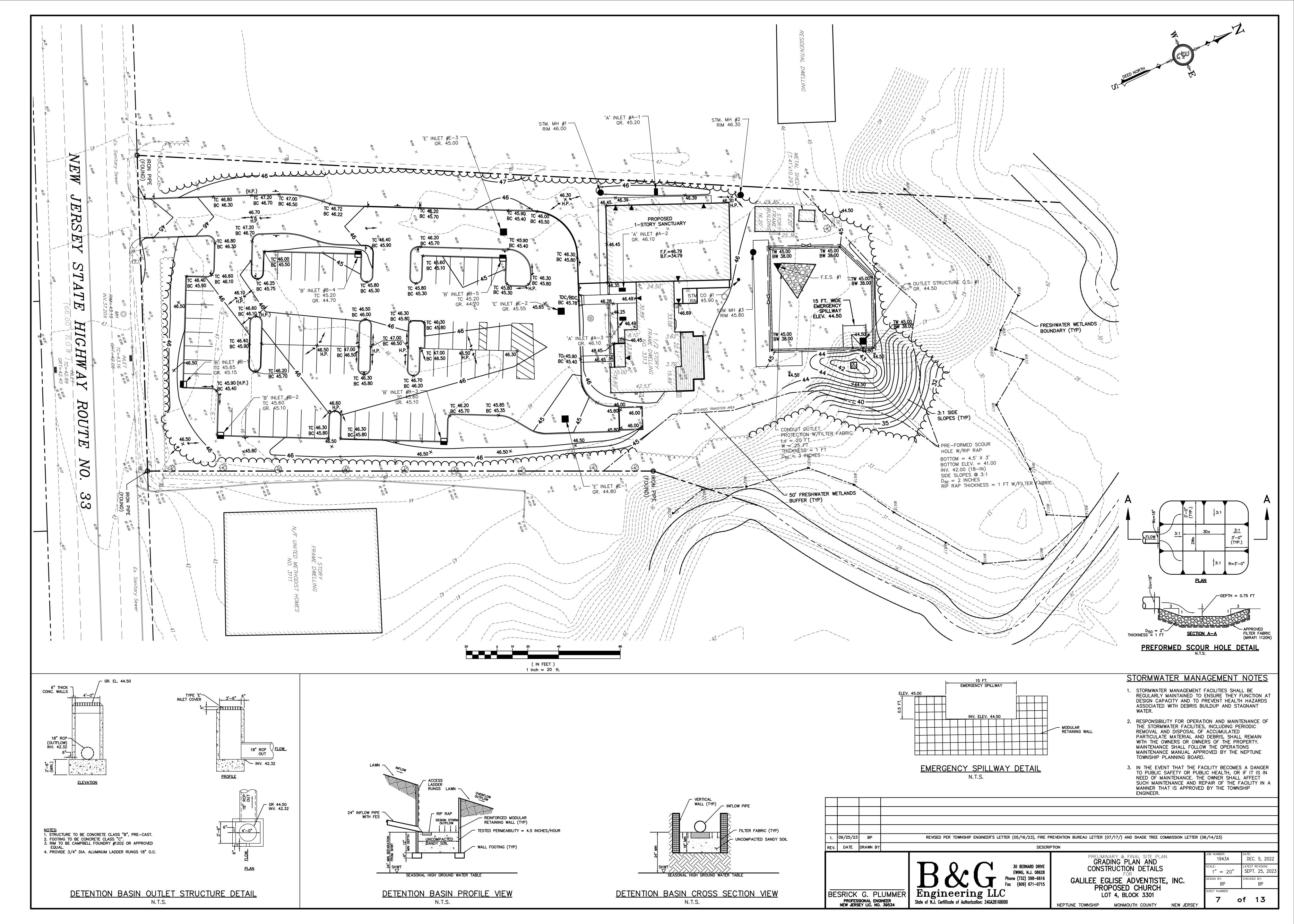


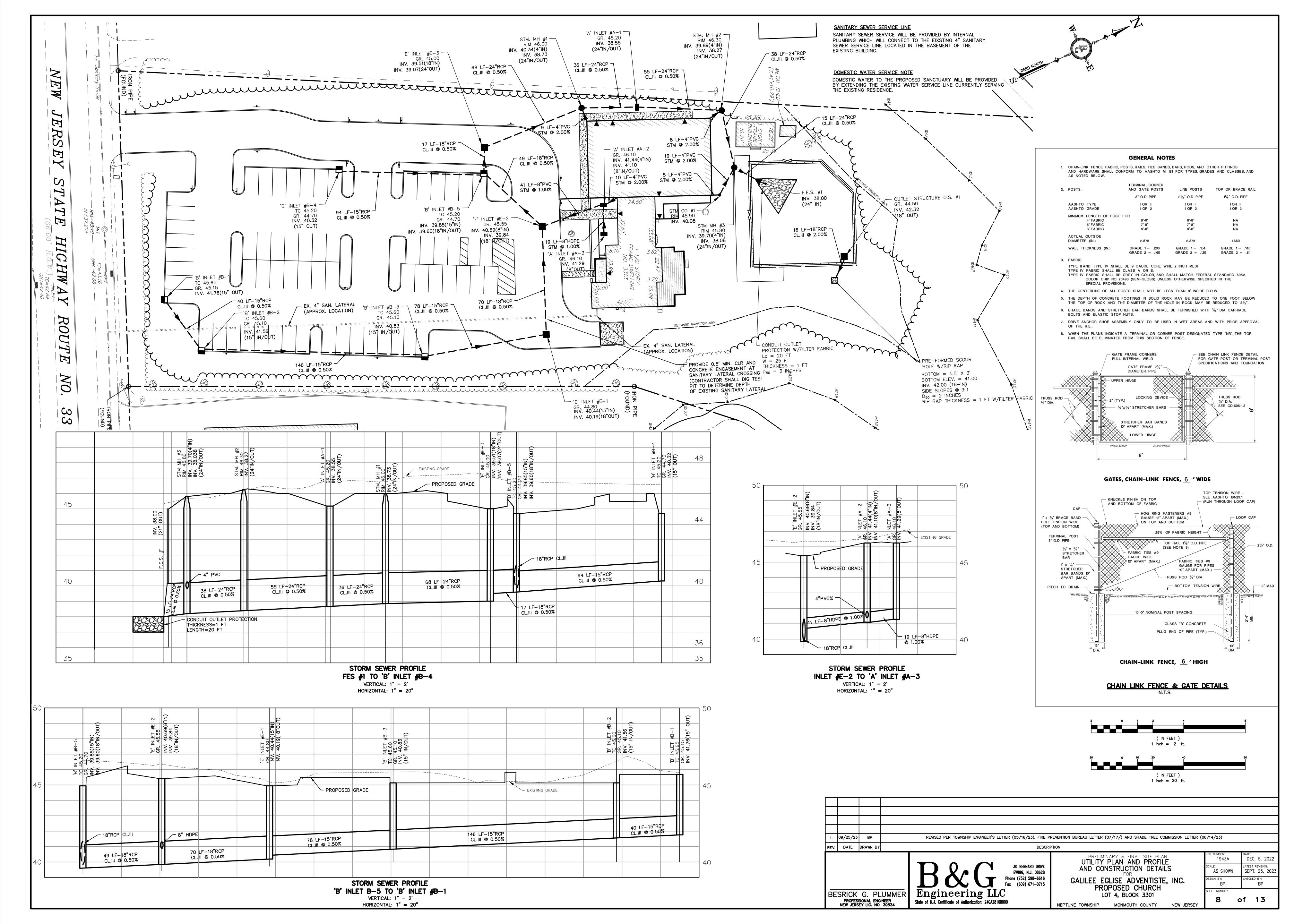


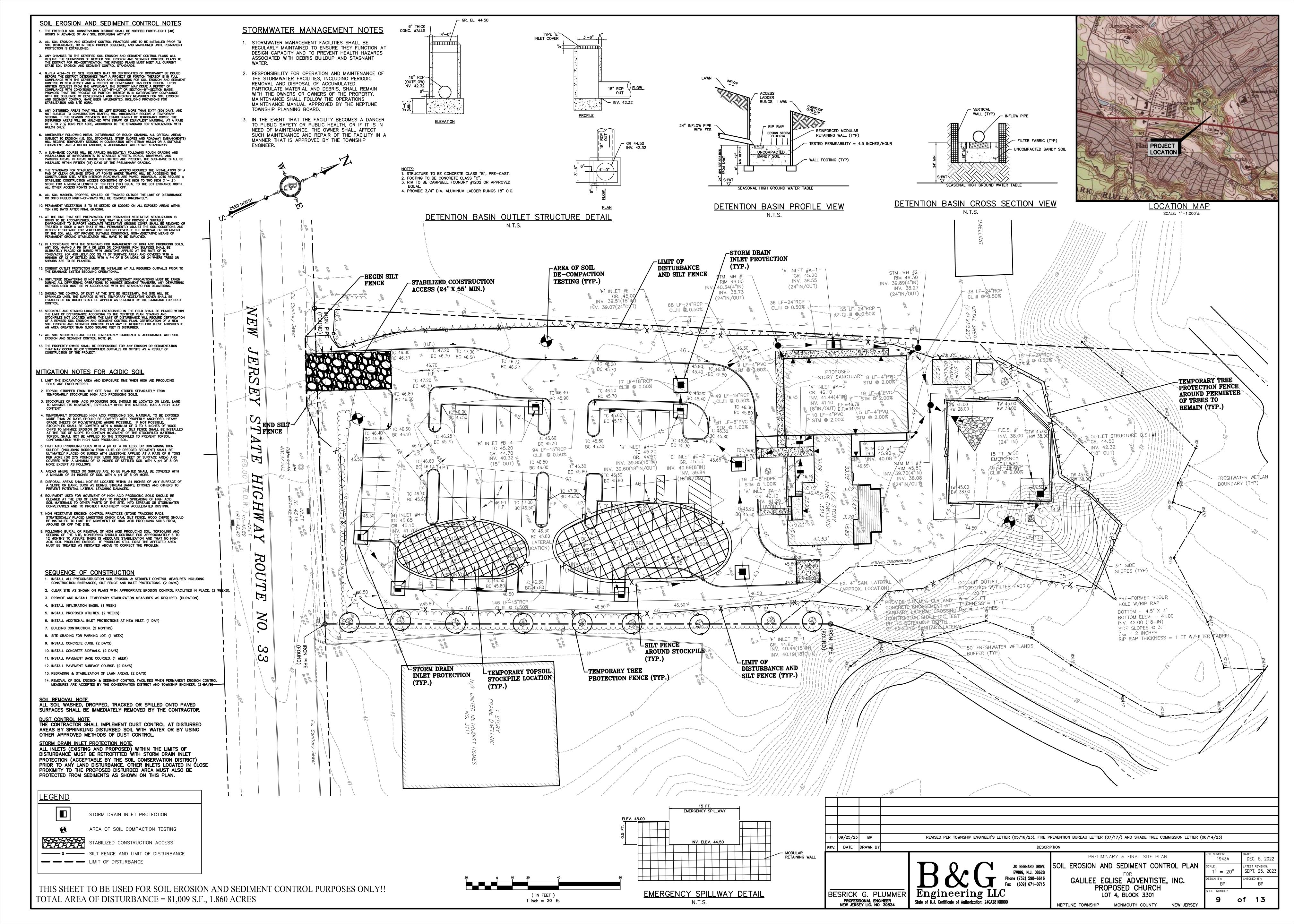












<u>STANDARDS FOR TOPSOILING</u>

1. MATERIALS

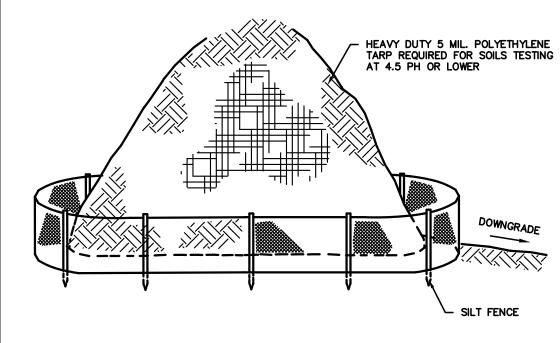
- A. TOPSOIL SHOULD BE FRIABLE1, LOAMY2, FREE OF DEBRIS, OBJECTIONABLE WEEDS AND STONES, AND CONTAIN NO TOXIC SUBSTANCE OR ADVERSE CHEMICAL OR PHYSICAL CONDITION THAT MAY BE HARMFUL TO PLANT GROWTH. SOLUBLE SALTS SHOULD NOT BE EXCESSIVE (CONDUCTIVITY LESS THAN 0.5 MILLIMHOS PER CENTIMETER. MORE THAN 0.5 MILLIMHOS MAY DESICCATE SEEDLINGS AND ADVERSELY IMPACT GROWTH). IMPORTED TOPSOIL SHALL HAVE A MINIMUM ORGANIC MATTER CONTENT OF 2.75 PERCENT. ORGANIC MATTER CONTENT MAY BE RAISED BY ADDITIVES.
- 9. TOPSOIL SUBSTITUTE IS A SOIL MATERIAL WHICH MAY HAVE BEEN AMENDED WITH SAND, SILT, CLAY, ORGANIC MATTER, FERTILIZER OR LIME AND HAS THE APPEARANCE OF TOPSOIL TOPSOIL SUBSTITUTES MAY BE UTILIZED ON SITES WITH INSUFFICIENT TOPSOIL FOR ESTABLISHING PERMANENT VEGETATION. ALL TOPSOIL SUBSTITUTE MATERIALS SHALL MEET THE REQUIREMENTS OF TOPSOIL NOTED ABOVE. SOIL TESTS SHALL BE PERFORMED TO DETERMINE THE COMPONENTS OF SAND, SILT, CLAY, ORGANIC MATTER, SOLUBLE SALTS AND PH LEVEL.
- FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER QUANTITY AND OR QUALITY OF SURFACE SOIL JUSTIFIES STRIPPING. B. STRIPPING SHALL BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA. C. WHERE FEASIBLE, LIME MAY BE APPLIED BEFORE STRIPPING AT A RATE DETERMINED BY SOIL TESTS TO BRING THE SOIL PH TO APPROXIMATELY 6.5.
- D. A 4-6 INCH STRIPPING DEPTH IS COMMON, BUT MAY VARY DEPENDING ON THE PARTICULAR SOIL. E. STOCKPILES OF TOPSOIL SHOULD BE SITUATED SO AS NOT TO OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE. F. STOCKPILES SHOULD BE VEGETATED IN ACCORDANCE WITH STANDARDS PREVIOUSLY DESCRIBED HEREIN; SEI STANDARDS FOR PERMANENT (PG. 4–1) OR TEMPORARY (PG.7–1) VEGETATIVE COVER FOR SOIL STABILIZATION. WEEDS SHOULD NOT BE ALLOWED TO GROW ON STOCKPILES.
- A. GRADE AT THE ONSET OF THE OPTIMAL SEEDING PERIOD SO AS TO MINIMIZE THE DURATION AND AREA OF EXPOSURE OF DISTURBED SOIL TO EROSION. IMMEDIATELY PROCEED TO ESTABLISH VEGETATIVE COVER IN ACCORDANCE WITH THE SPECIFIED SEED MIXTURE. TIME IS OF THE ESSENCE
- B. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING, AND MAINTENANCE. SEE THE STANDARD FOR LAND GRADING, PG. 19-1.
- C. AS GUIDANCE FOR IDEAL CONDITIONS, SUBSOIL SHOULD BE TESTED FOR LIME REQUIREMENT. LIMESTONE, IF NEEDED, SHOULD BE APPLIED TO BRING SOIL TO A PH OF APPROXIMATELY 6.5 AND INCORPORATED INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES.
- D. PRIOR TO TOPSOILING, THE SUBSOIL SHALL BE IN COMPLIANCE WITH THE STANDARD FOR LAND GRADING, PG. 19-1.
- E. EMPLOY NEEDED EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES CHANNEL STABILIZATION MEASURES, SEDIMENTATION BASINS, AND WATERWAYS. SEE STANDARDS 11 THROUGH 42.
- A. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING SOIL STRUCTURE; I.E., LESS THAN FIELD CAPACITY (SEE GLOSSARY). B. A UNIFORM APPLICATION TO AN AVERAGE DEPTH OF 5.0 INCHES, MINIMUM OF 4 INCHES, FIRMED IN PLACE IS REQUIRED. ALTERNATIVE DEPTHS MAY BE CONSIDERED WHERE SPECIAL REGULATORY AND/OR INDUSTRY DESIGN STANDARDS ARE APPROPRIATE SUCH AS ON GOLF COURSES, SPORTS FIELDS, LANDFILL CAPPING, ETC.. SOILS WITH A PH OF 4.0 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUL DEPTH OF 12 INCHES OF SOIL HAVING A PH OF 5.0 OR MORE, IN ACCORDANCE WITH THE STANDARD FOR
- C. PURSUANT TO THE REQUIREMENTS IN SECTION 7 OF THE STANDARD FOR PERMANENT VEGETATIVE STABILIZATION, THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT PERMANENT VEGETATIVE COVER BECOMES ESTABLISHED ON AT LEAST 80% OF THE SOILS TO BE STABILIZED WITH VEGETATION. FAILURE TO ACHIEVE THE MINIMUM COVERAGE MAY REQUIRE ADDITIONAL WORK TO BE PERFORMED BY THE CONTRACTOR TO INCLUDE SOME OR ALL OF THE FOLLOWING: SUPPLEMENTAL SEEDING. RE—APPLICATION OF LIME AND FERTILIZERS, AND/OR THE ADDITION OF ORGANIC MATTER (I.E. COMPOST) AS A TOP DRESSING, SUCH ADDITIONAL MEASURES SHALL BE BASED ON SOIL TESTS SUCH AS THOSE OFFERED BY RUTGERS COOPERATIVE EXTENSION SERVICE OR OTHER APPROVED LABORATORY FACILITIES QUALIFIED TO TEST SOIL SAMPLES FOR AGRONOMIC PROPERTIES.

STANDARDS FOR STABILIZATION WITH MULCH ONLY

- 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 STANDARDS FOR LAND GRADING
- B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS. SEE STANDARDS 11 THROUGH 42. THE APPROVED RATES ABOVE HAVE BEEN MET WHEN THE MULCH COVERS THE GROUND COMPLETELY UPON VISUAL INSPECTION, I.E. THE SOIL CANNOT BE SEEN BELOW THE MULCH.
- A. UNROTTED SMALL-GRAIN STRAW, OR SALT HAY AT 2.0 TO 2.5 TONS PER ACRE IS SPREAD UNIFORMLY AT 90 TO 115 POUNDS PER 1,000 SQUARE FEET AND ANCHORED WITH A MULCH ANCHORING TOOL, LIQUID MULCH BINDERS, OR NETTING TIE DOWN. OTHER SUITABLE MATERIALS MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT.
- B. SYNTHETIC OR ORGANIC SOIL STABILIZERS MAY BE USED UNDER SUITABLE CONDITIONS AND IN QUANTITIES AS RECOMMENDED BY THE MANUFACTURER.
- C. WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 POUNDS PER ACRE (OR ACCORDING TO THE MANUFACTURER 'S REQUIREMENTS) MAY BE APPLIED BY A HYDROSEEDER.
- D. MULCH NETTING, SUCH AS PAPER JUTE, EXCELSIOR, COTTON, OR PLASTIC, MAY BE USED. E. WOODCHIPS APPLIED UNIFORMLY TO A MINIMUM DEPTH OF2 INCHES MAY BE USED. WOODCHIPS WILL NOT BE USED ON AREAS WHERE FLOWING WATER COULD WASH THEM INTO AN INLET AND PLUG IT. UNIFORMLY TO A MINIMUM DEPTH OF3 INCHES MAY BE USED. SIZE 2 OR 3 (ASTM C-33) IS
- 3. MULCH ANCHORING— SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT OF HAY OR STRAW MULCH TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA AND STEEPNESS OF SLOPES.
- A. PEG AND TWINE— DRIVE 8 TO I O 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 SOIFSURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRIS—CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS. B. MULCH NETTINGS— STAPLE PAPER, COTTON, OR PLASTIC NETTINGS OVER MULCH. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED. NETTING IS USUALLY VAILABLE IN ROLLS 4 FEET WIDE AND UP TO 300 FEET LONG.
- C. CRIMPER MULCH ANCHORING COULTER TOOL —A TRACTOR—DRAWN IMPLEMENT ESPECIALLY DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL SURFACE. THIS PRACTICE AFFORDS MAXIMUM EROSION CONTROL, BUT ITS USE IS LIMITED TO THOSE SLOPES UPON WHICH THE TRACTOR CAN OPERATE SAFELY. SOIL PENETRATION SHOULD BE ABOUT 3 TO 4 INCHES. ON SLOPING LAND, THE OPERATION SHOULD BE ON THE CONTROLS.
- D. LIQUID MULCH-BINDERS APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND CATCHES THE MULCH, IN VALLEYS, AND AT CRESTS OF BANKS. REMAINDER OF AREA SHOULD BE UNIFORM IN APPEARANCE.
- a. ORGANIC AND VEGETABLE BASED BINDERS NATURALLY OCCURRING, POWDER BASED, HYDROPHILIC MATERIALS THAT MIXED WITH WATER FORMULATES A GEL AND WHEN APPLIED TO MULCH UNDER SATISFACTORY CURING CONDITIONS WILL FORM MEMBRANED NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYTOTOXIC EFFECT OR IMPEDE GROWTH OF TURFGRASS. VEGETABLE BASED GELS SHALL BE APPLIED AT RATES AND WEATHER CONDITIONS RECOMMENDED BY THE MANUFACTURER.

2. PROTECTIVE MATERIALS

b. 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. IT SHALL BE APPLIED AT RATES AND WEATHER CONDITIONS RECOMMENDED BY THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF GRASS.



TEMPORARY TOPSOIL STOCKPILE DETAIL

PERMANENT SEEDING SPECIFICATIONS

- 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 THE 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.

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/). FERTILIZ.ER 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.

- B. WORK LIME AND FERTILIZER INTO THE TOPSOIL 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.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 S OR MORE BEFORE INITIATING SEEDBED REPARATION. SEE STANDARD FOR MANAGEMENT OF HIGH ACID—PRODUCING SOILS FOR SPECIFIC REQUIREMENTS.
- A.SELECT A MIXTURE FROM TABLE 4-2 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	RE IESTED.				
LOCATION		ACCEPTABLE SEED MIXES			OPTIMAL SEEDING	ACCEPTABLE SEEDING
LAWN	MIX # 15 -	HARD FESCUE CHEWING FESCUE STRONG CREEPING RED FESCUE PERENNIAL RYEGRASS	130 LBS/ACRE 45 LBS/ACRE 45 LBS/ACRE 10 LBS/ACRE	3.0 LBS/1,000SF 1.0 LBS/1,000SF 1.0 LBS/1,000SF 0.25 LBS/1,000SF	DATES 8/15 TO 10/15	DATES 3/1 TO 4/30 5/1 TO 8/14
					OPTIMAL	ACCEPTABLE

- OPTIMAL SEEDING DATES MIX # 16 - ROUGH BLUEGRASS 90 LBS/ACRE 2.0 LBS/1,000SF DATES STRONG CREEPING RED FESCUE 130 LBS/ACRE 3.0 LBS/1,000SF 8/15 TO 10/15 3/1 TO 4/30 I. 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 MOWED ONCE. 2. WARM-SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT HIGH TEMPERATURES, GENERALLY 85 F AND ABOVE. SEE TABLE 4-2 MIXTURES 1TO 7. PLANTING RATES FOR WARM-SEASON GRASSES SHALL BE THE AMOUNT OF PURE LIVE SEED (PLS) AS DETERMINED BY GERMINATION TESTING RESULTS.
- 3. COOL-SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT TEMPERATURES BELOW 85"F. MANY GRASSES BECOME ACTIVE AT 65"F. SEE TABLE 4-2, MIXTURES 8-20. ADJUSTMENT OF PLANTING RATES TO COMPENSATE FOR THE AMOUNT OF PLS IS NOT REQUIRED FOR COOL SEASON GRASSES.
- B. 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 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT C.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.

D. 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 SEEDED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED, SHORT FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4-MULCHING 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 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 A.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
- 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. I. 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. STABS 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.
- 2. MULCH NETTINGS STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTINGS TO THE SOIL SURFACE USE A DEGRADABLE NETTING IN AREAS TO BE MOWED. 3. CRIMPER (MULCH ANCHORING COULTER TOOL) — A TRACTOR—DRAWN 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 RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE 4. LIQUID MULCH-BINDERS - MAY BE USED TO ANCHOR SALT HAY, HAY OR STRAW MULCH.
- a. 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.

b. USE ONE OF THE FOLLOWING:

(I)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 MEMBRANED NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL 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.

- (2) SYNTHETIC BINDERS HIGH POLYMER SYNTHETIC EMULSION, MISCIBLE WITH WATER WHEN DILUTED AND, FOLLOWING APPLICATION OF 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. B. 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 1,500POUNDS 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.
- C.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 RENOVATION 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.
- IF SOIL MOISTURE IS DEFICIENT SUPPLY NEW SEEDING WITH ADEQUATE WATER (A MINIMUM OF 114 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.
- 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 7POUNDS PER 1,000 SQUARE FEET EVERY 3 TO 5 WEEKS UNTIL THE GROSS NITROGEN DEFICIENCY IN THE TURF IS AMELIORATED.
- 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 MOWED ONCE. NOTE THIS DESIGNATION OF MOWED ONCE DOES NOT GUARANTEE THE PERMANENCY OF THE TURF SHOULD OTHER MAINTENANCE FACTORS BE NEGLECTED OR OTHERWISE MISMANAGED.

TEMPORARY SEEDING SPECIFICATIONS

- 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 STANDARDS FOR LAND GRADING, PG. 19-1.

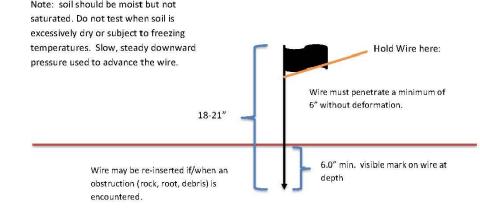
- * SOIL TESTING SHOULD BE DONE TO DETERMINE AMOUNT OF LIMESTONE REQUIRED AND APPLICATION RATE. B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED.

A. SELECT SEED FROM.RECOMMENDATIONS IN TABLE 7-2

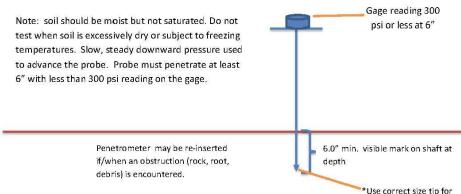
- B. CONVENTIONAL SEEDING. APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL, TO A DEPTH OF 1/4 TO 1/2 INCH. BY RAKING OR

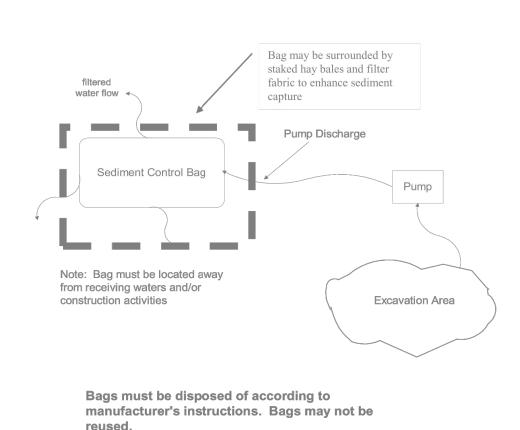
MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEEMED COMPLIANCE WITH THIS

- A. STRAW OR HAY. UNNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, 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 APPROXIMATELY 95% OF THE SOIL SURFACE WILL BE 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. 2. MULCH NETTINGS. STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTINGS TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED. 3. CRIMPER (MULCH ANCHORING TOOL). A TRACTOR-DRAWN 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 RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED.
- 4. LIQUID MULCH-BINDERS. -MAY BE USED TO ANCHOR HAY OR STRAW MULCH.
 - (2) 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. IT SHALL BE APPLIED AT RATES RECOMMENDED BY 1HE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF
- NOTE: ALL NAMES GIVE ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT CONSTITUTE A COMMENDATION OF THESE PRODUCTS TO THE EXCLUSION OF OTHER PRODUCTS. B. 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 1,500PONDS PER ACRE (OR AS RECOMMENDED BY THE PROJECT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. THIS 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.
- 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 RENOVATION 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.



Handheld Soil Penetrometer Test





DEWATERING DETAIL

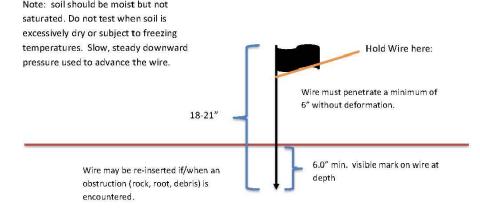
- B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS. SEE STANDARDS 11
- C. IMMEDIATELY PRIOR TO SEEDING, THE SURFACE SHOULD BE SCARIFIED 611 TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.) 2. SEEDBED PREPARATION *
- A. APPLY GROUND LIMESTONE AND FERTILIZ.ER 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"/O WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE.
- 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.

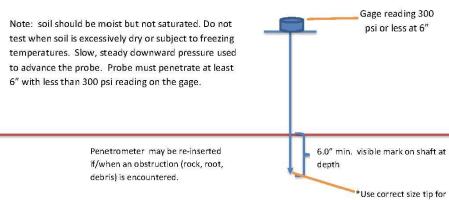
ACCEPTABLE SEED MIXES SPRING OATS 86 LBS/ACRE 2.0 LBS/1,000SF 3/01 TO 5/15 AND 8/15 TO 10/01 ANNUAL RYEGRASS 100 LBS/ACRE 1.0 LBS/1,000SF 3/15 TO 6/01 AND 8/01 TO 9/15 PERENNIAL RYEGRASS 100 LBS/ACRE 1.0 LBS/1,000SF 3/01 TO 5/15 AND 8/15 TO 10/01

- C. 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 MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION IV MULCHING) HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZ.ER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. POOR SEED TO SOIL CONTACT OCCURS REDUCING SEED GERMINATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT TO TRAVERSE OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC.
- D. 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

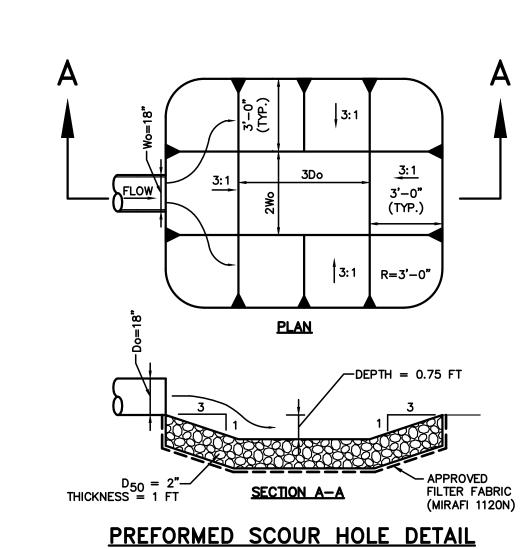
- 1. PEG AND TWINE. DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISS—CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
- q. 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
- b. USE ONE OF1HE FOLLOWING: (1) 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 MEMBRANED NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYTOTOXIC EFFECT OR IMPEDE GROWTH OF TURFGRASS. USE AT RATES AND WEATHER CONDITIONS AS RECOMMENDED BYTHE MANUFACTURER TO ANCHOR MULCH MATERIALS. MANY NEW PRODUCTS ARE AVAILABLE, SOME OF WHICH MAY NEED FURTHER EVALUATION FOR USE IN THIS STATE.
- C. 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, FORMA MULCH MAT. PELLETIZED MULCH SHALL BE APPLIES IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR

Probing Wire Test- 15.5 ga steel wire (survey flag)





SIMPLIFIED TESTING METHODS DETAIL



tree) in inches.

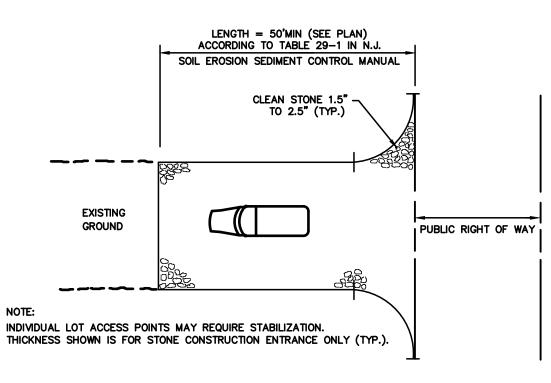
Root Zone

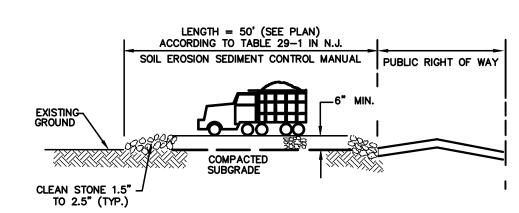
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NOTES 1. CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM 2. CONTRACTOR TO REMOVE FABRIC AND MESH JUST PRIOR TO PAVING 3. REMOVE INLET PROTECTION WHEN THE CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED. INLET FILTER DETAIL

REINFORCED

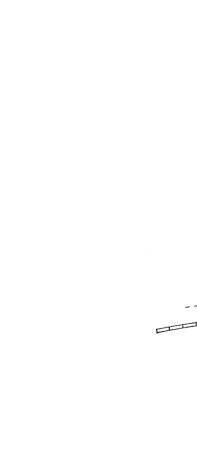
BYPASS PORTS

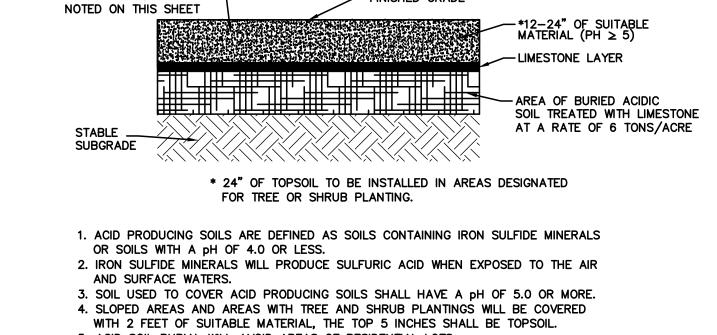




STABILIZED CONSTRUCTION ACCESS DETAIL

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

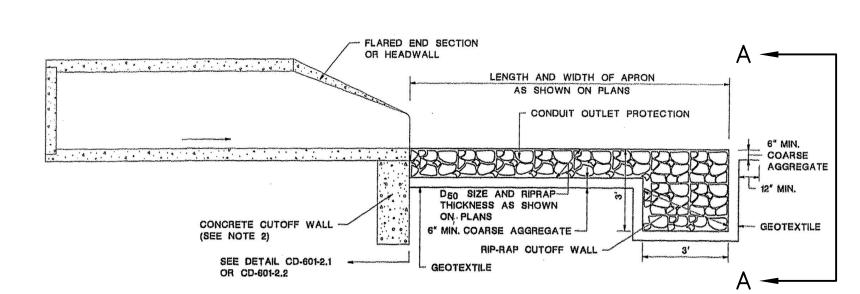




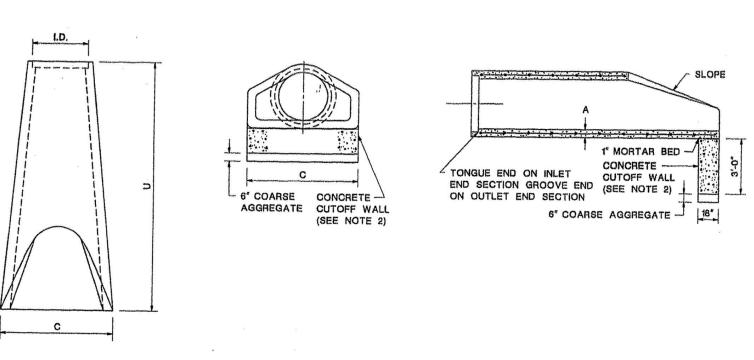
-FINISHED GRADE

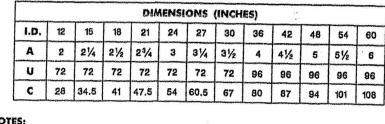
5. ACID SOIL BURIAL WILL AVOID AREAS OF RESIDENTIAL LOTS. ACID SOIL MITIGATION DETAIL

TOPSOIL TO BE SEEDED -PER SCD REQUIREMENTS



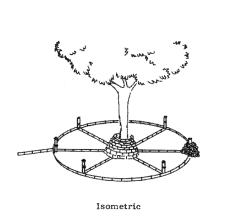
CONDUIT OUTLET PROTECTION DETAIL



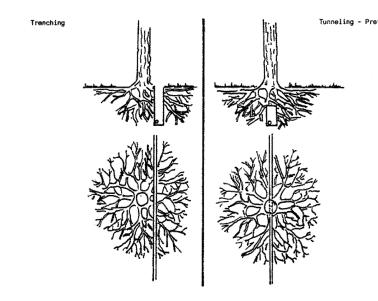


- 1. MINOR VARIATIONS TO THE ABOVE DIMENSIONS ARE ACCEPTABLE WITH THE EXCEPTION OF THE INSIDE DIAMETER DIMENSION.
- 2. A 1 INCH THICK MORTAR BED AND A 6 INCH DEEP LAYER OF COARSE AGGREGATE ARE REQUIRED WHEN A PRECAST CONCRETE CUTOFF WALL IS USED.
- 3. NO SEPARATE PAYMENT WILL BE MADE FOR THE CONCRETE CUTOFF WALL. THE COST OF THE CONCRETE CUTOFF WALL SHALL BE INCLUDED IN THE COST OF THE END SECTION.
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CONCRETE FLARED END SECTION DETAIL







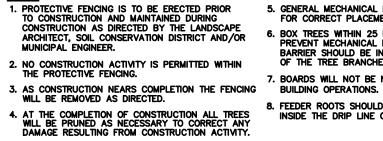
Utilities should be tunneled beneath tree roots. The drawings on the left show trenching that would probably kill the tree. The drawings on the right show how tunneling under the tree will

1943A

NEW JERSEY

DEC. 5, 202

of 13



Critical root radius

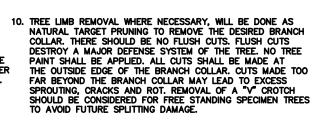
(CRR)

5. GENERAL MECHANICAL DAMAGE — SEE DETAIL ABOVE FOR CORRECT PLACEMENT OF TREE PROTECTION.

6. BOX TREES WITHIN 25 FEET OF A BUILDING SITE TO PREVENT MECHANICAL INJURY. FENCING OR OTHER BARRIER SHOULD BE INSTALLED AT THE DRIP LINE OF THE TREE BRANCHES.

7. BOARDS WILL NOT BE NAILED TO TREES DURING BUILDING OPERATIONS.

9. 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 CERTIFIED TREE EXPERT.



MONMOUTH COUNTY

NEPTUNE TOWNSHIP

preserve many of the important feeder roots.

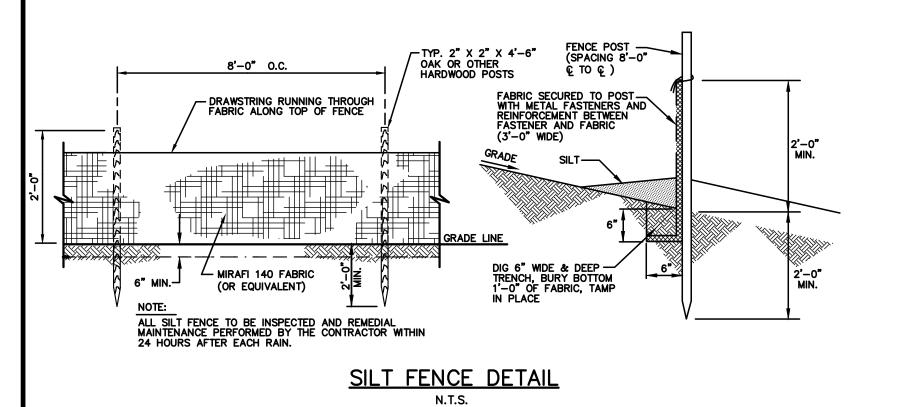
TEMPORARY TREE PROTECTION DETAILS

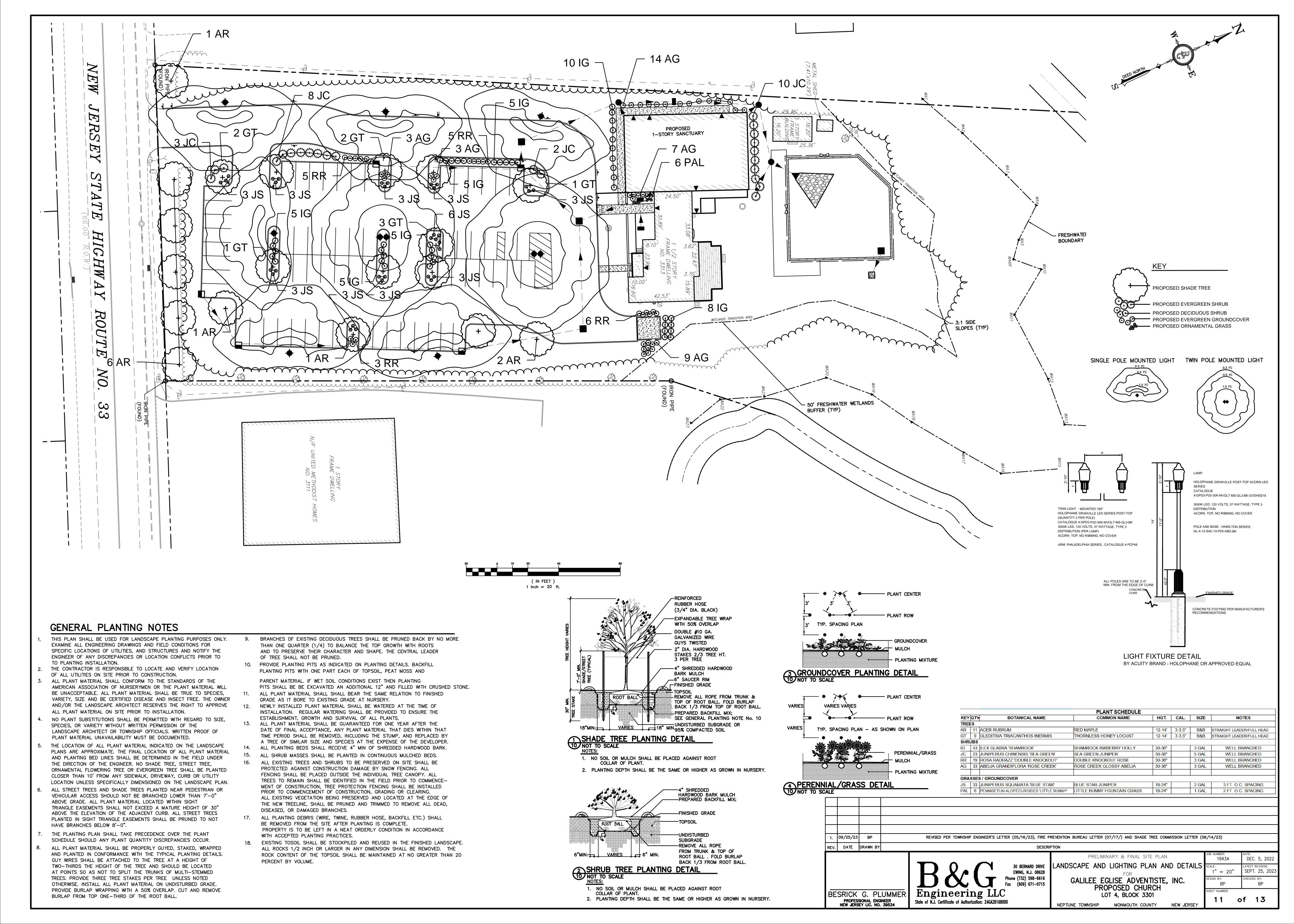
N.T.S.

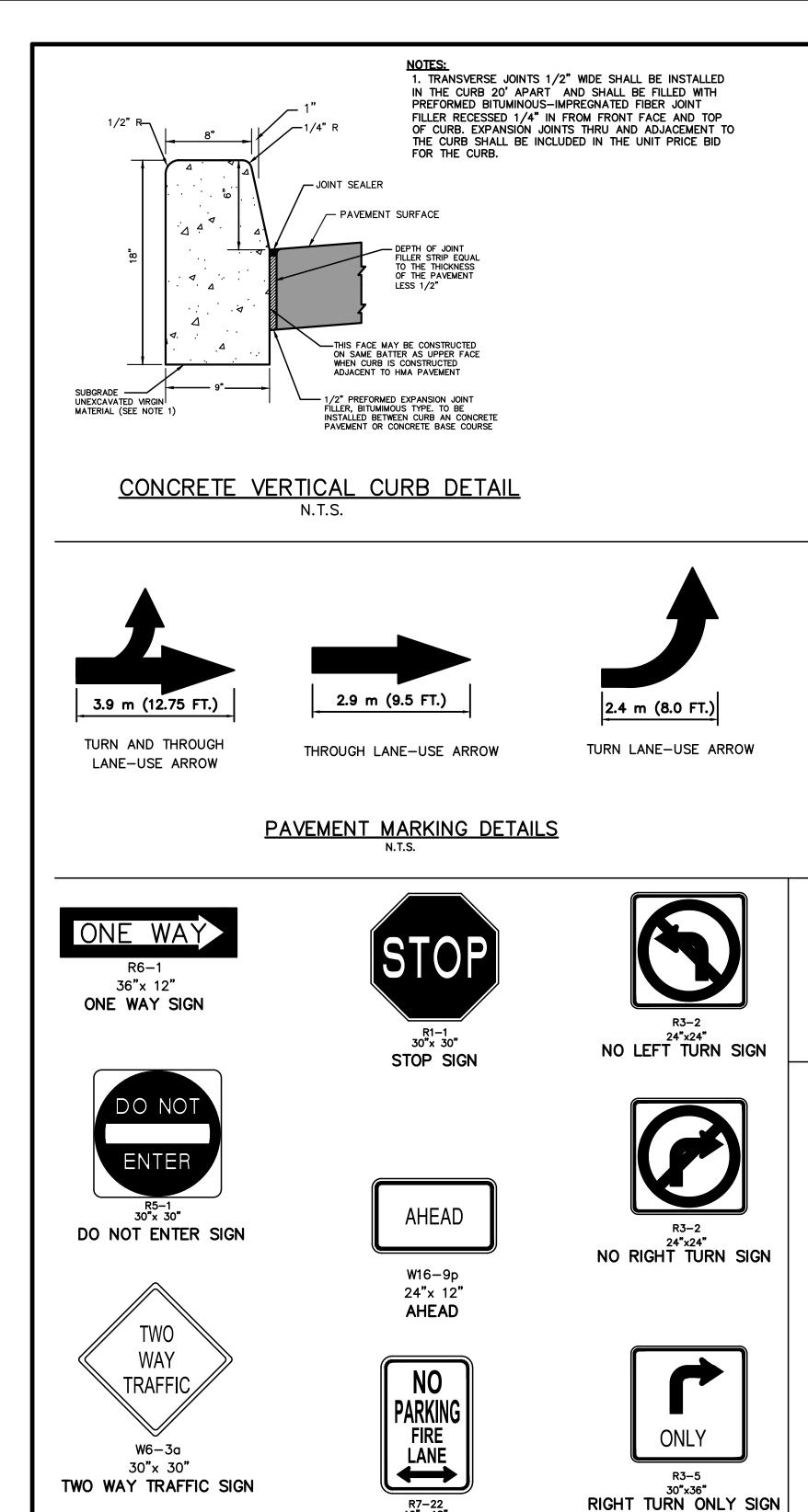
Section

Tree protection - tile and gravel will allow air circulation to root zone under a fill

REVISED PER TOWNSHIP ENGINEER'S LETTER (05/16/23), FIRE PREVENTION BUREAU LETTER (07/17/) AND SHADE TREE COMMISSION LETTER (06/14/23) 1. 09/25/23 BP REV. DATE DRAWN BY SOIL EROSION AND SEDIMENT CONTROL DETAILS **30 BERNARD DRIVE** EWING, N.J. 08628 Phone (732) 598-6616 GALILEE EGLISE ADVENTISTE, INC (609) 671-0715 PROPOSED CHURCH BESRICK G. PLUMMEI LOT 4, BLOCK 3301 PROFESSIONAL ENGINEER NEW JERSEY LIC. NO. 39534







STOP SIGN

CLEAN OUT -

CONCRETE_

4",45" ELBOW -

WYE BRANCH -

CONCRETE CURB

PROVIDE 8' MIN.
ACCESSIBLE AISLE
WIDTH FOR VAN
SPACES

HANDICAPPED PARKING STALL DETAIL

SANITARY SEWER CLEANOUT DETAIL

N.T.S.

MARKER

W/BRASS CAP

TRAFFIC SIGN DETAILS

_HOT MIX ASPHALT 12.5 M 64, | BASE COURSE, 4" THICK

SURFACE COURSE, 2" THICK.

STABLE & COMPACTED

- 8" REINFORCED CONC. FOR DUMPSTER

└─4X4 - W12 X W12 WELDED WIRE FABRIC

SUBGRADE

PARKING LOT AND DRIVEWAY

PAVEMENT DETAIL

N.T.S.

ENCLOSURE FLOOR SLAB

CONCRETE SLAB DETAIL

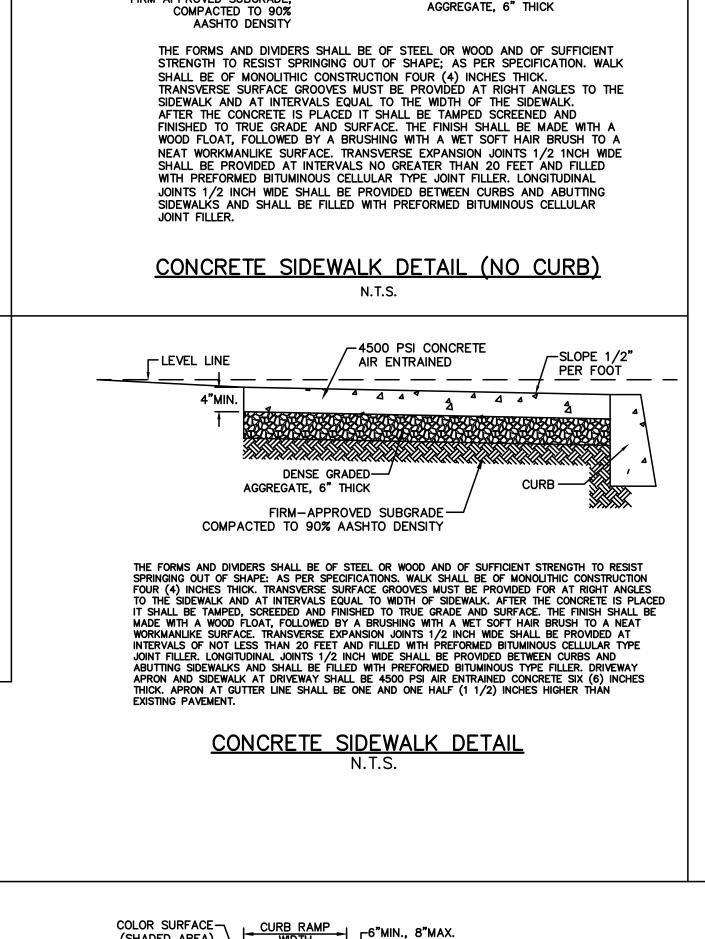
AT DUMPSTER ENCLOSURE

N.T.S.

-DENSE GRADED

AGGREGATE, 6" THICK

4" PAINTED——BLUE STRIPE (LONG-LIFE EPOXY RESIN)



WIDTH PER DIMENSION PLAN

1/4"/FT CROSS SLOPE

TOWARD ROADWAY

FIRM APPROVED SUBGRADE,-

-CONCRETE WALK, 4500 PSI

CONCRETE, AIR ENTRAINED,

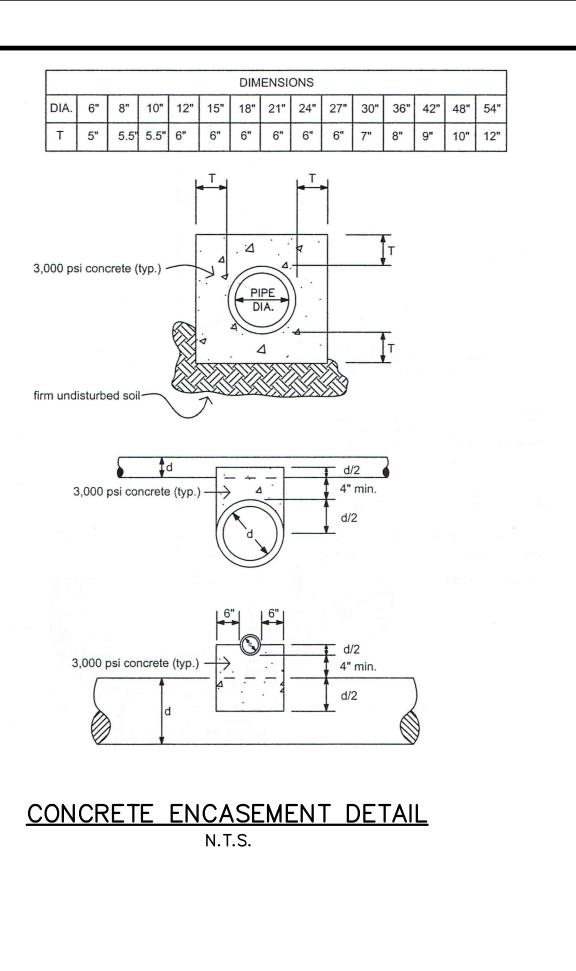
- INSTALL 1/2" WIDE PREFORMED

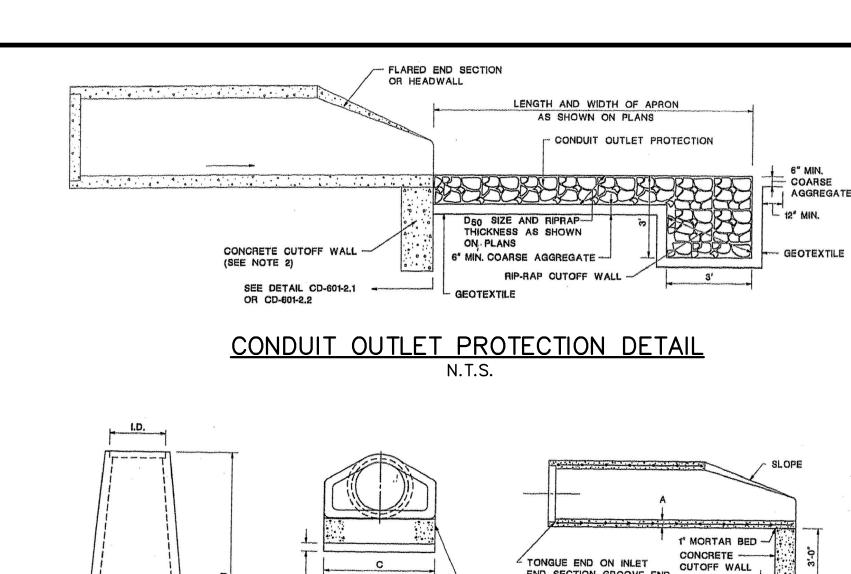
BITUMINOUS CELLULAR TYPE

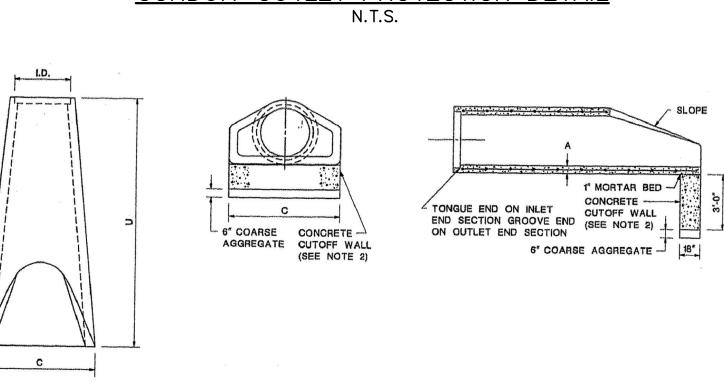
JOINT AGAINST ABUTTING

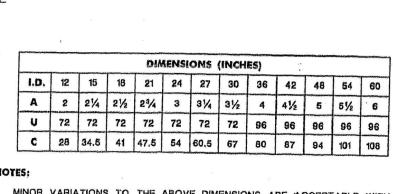
SIDEWALKS AND CURBS

-DENSE GRADED



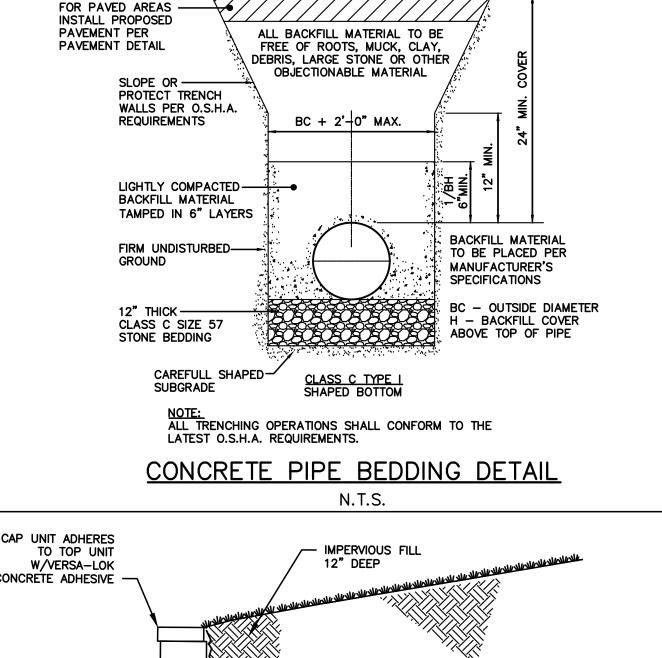






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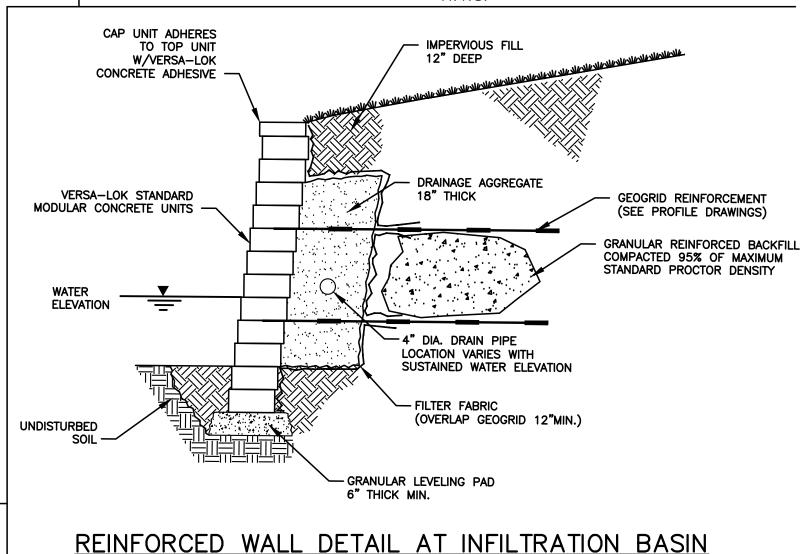
CONCRETE FLARED END SECTION DETAIL



BACKFILL IN EXISTING PAVED AREAS TO BE

PLACED IN 8" LIFTS, COMPACTED TO 95%

DENSITY. THE PAVEMENT IS TO BE SAWCUT ONE FOOT BEYOND THE EDGE OF TRENCH





W/ THREADED CAP OR APPROVED EQUAL

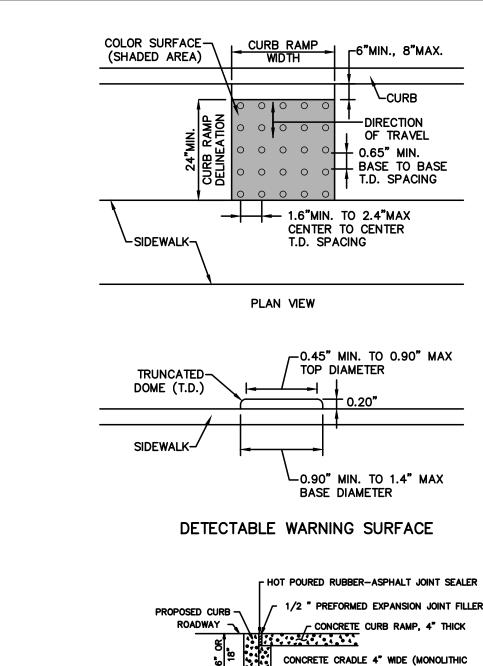
-3,000psi CONCRETE

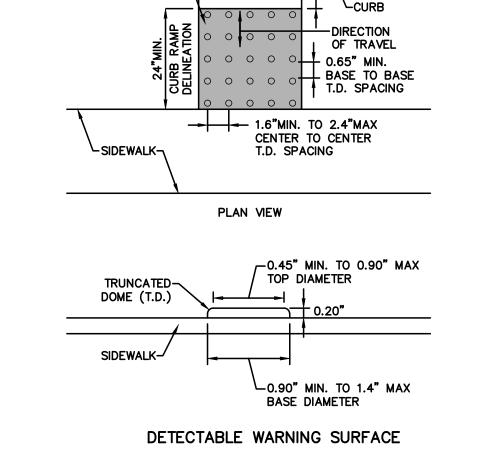
DOWNSPOUTS)

CRUSHED STONE BEDDING

ENCASEMENT (3,000psi)

(SEE ARCH. PLANS FOR SIZE & LOCATION OF ROOFDRAIN





WITH CURB) (PAID FOR IN COST OF CURB)

-- WIDTH THE SAME

wood-to-wood connections.

S = Spacing of fence posts (center-to-center, feet)

b = Diameter of round concrete pier hole (inches)

d = Required depth of concrete pier (feet and inches)

P = Post size, wood, cedar or redwood (nominal inches)

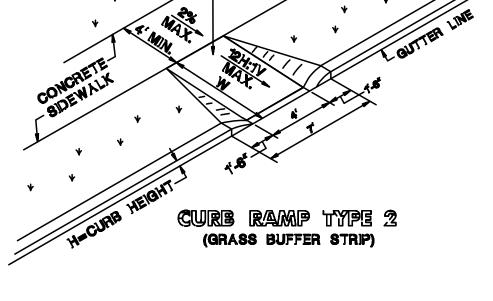
FENCE POST AND FOUNDATION DETAILS

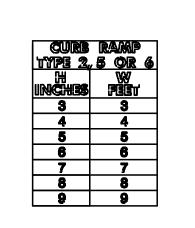
N.T.S.

H = Height of fence above grade (feet)

AS APPROACH CURI

DROPPED CURB AND CRADLE





1. Landing Area, approach sidewalk transitions, and curb ramp shall be kept clear

- OF OBSTRUCTIONS. 2. DIMENSIONS SHOWN IN TABLES ARE FOR RELATIVELY FLAT SIDEWALK AREAS. CARE SHOULD BE TAKEN WHEN DETERMINING CURB RAMP SIZE BASED ON CURB HEIGHT (H) WHERE ELEVATION OF CURB AND SIDEWALK YARY DRASTICALLY IN AREA OF PROPOSED CURB RAMP. 3. CURB (DROPPED CURB) GUTTERLINE TO BE FLUSH WITH ROADWAY PAYEMENT 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 TO BE PAID FOR AS CONCRETE SIDEWALK OF THE APPROPRIATE ADJACENT THICKNESS.
- 6. Curb and header within area enclosed by heavy lines to be paid for as 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,
- CURB RAMP TYPE 7 SHOULD BE USED, INSTEAD OF CURB RAMP TYPE 1 THROUGH 4. 8. Crosswalks and stop lines may be marked or unmarked, see plans.
- 9. PREFERRED AND ALTERNATE TREATMENTS SHOULD NOT BE INTERMIXED WITHIN THE SAME INTERSECTION. 10. 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

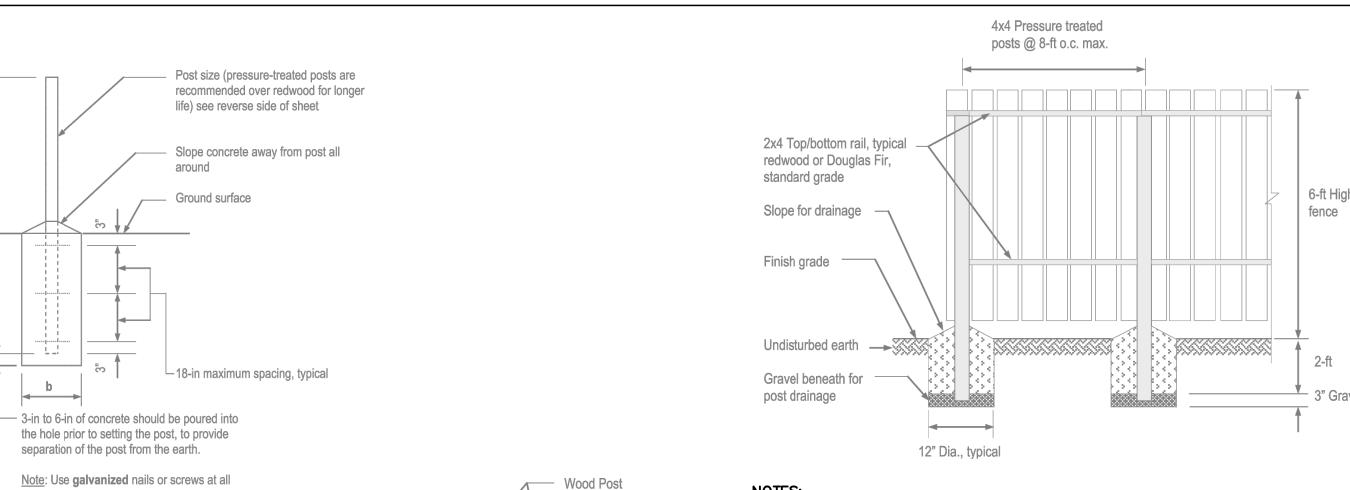
HANDICAP ACCESSIBLE RAMP DETAILS

_ Concrete Pier

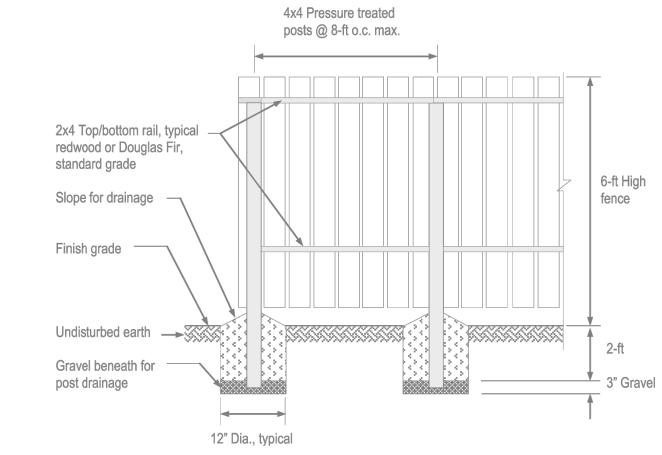
Rebar Hoop _

Minimum 3-in concrete between

earth and reinforcing, typical



CALCULATED BASED ON CROSS SLOPES SHOWN.

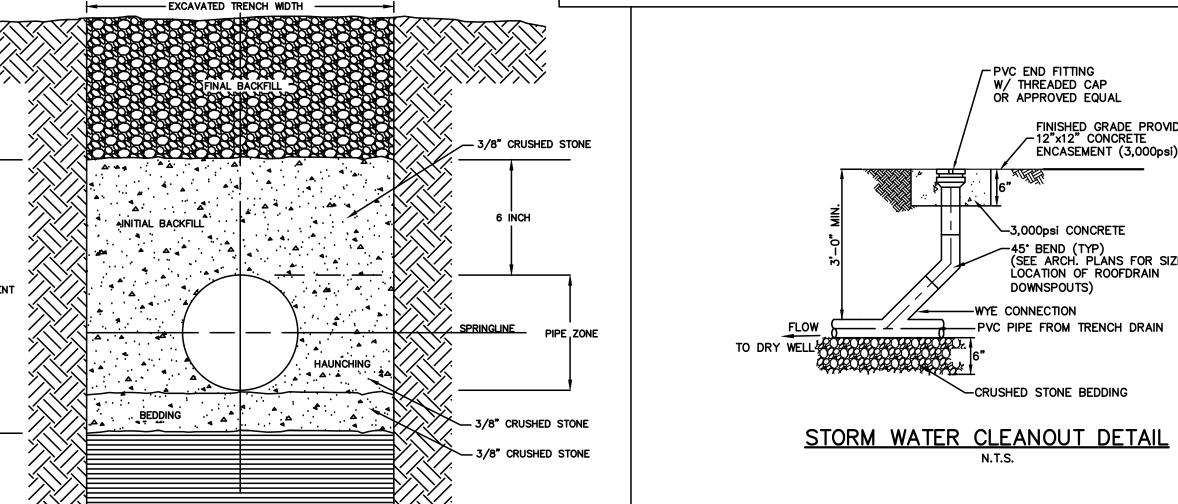


• Wood posts shall be of naturally durable or preservative-treated wood (CBC 2304.11.2.7). Wood posts shall be No. 2 foundation-grade redwood, or pressure-treated Douglas fir-larch

• Preservative treatment must be applied to the ends of wood posts buried in the ground. • Set posts/pipes in 12-inch diameter concrete footing extending at least 24 inches into undisturbed natural ground or properly compacted fill. Footings should be placed over 3 inches of loose gravel. Wood posts should extend through concrete footings to gravel

Use galvanized nails or screws at all wood-to-wood connections.

6' HIGH WOOD FENCE DETAIL AT DUMPSTER LOCATION N.T.S.



UNDERGROUND INSTALLATION OF PLASTIC PIPE

PLASTIC PIPE SHOULD ALWAYS BE BURIED IN STRICT ACCORDANCE WITH THE ASTM STANDARD RELEVANT TO THE TYPE OF PLASTIC PIPING SYSTEM BEING INSTALLED. THOSE STANDARDS ARE: ASTM D2321 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS. ASTM D2774 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PRESSURE

NOTE: IN ADDITION TO THESE STANDARDS, PIPE SHOULD ALWAYS BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODE REQUIREMENTS.

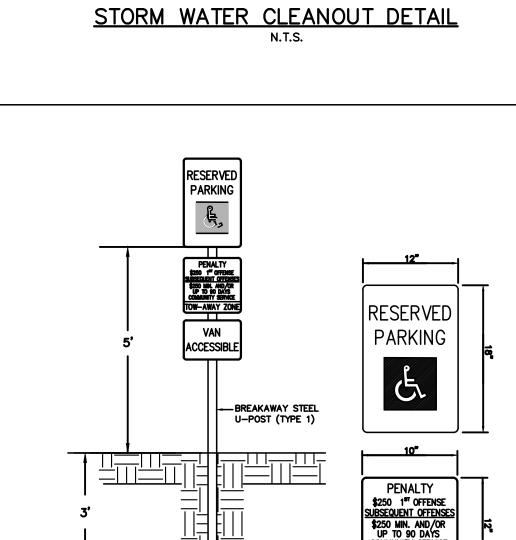
RECOMMENDATIONS FOR UNDERGROUND INSTALLATION OF PLASTIC DRAINAGE PIPE:

- THE MINIMUM WIDTH OF THE TRENCH SHOULD BE THE PIPE OD (OUTSIDE DIAMETER) PLUS 16 INCHES OR THE PIPE OUTSIDE DIAMETER TIMES 1.25 PLUS 12 INCHES. THIS WILL ALLOW ADEQUATE ROOM FOR JOINING THE PIPE, SNAKING THE PIPE IN THE TRENCH TO ALLOW FOR EXPANSION AND CONTRACTION WHERE APPROPRIATE AND SPACE FOR BACKFILLING AND COMPACTION OF BACKFILL. THE SPACE BETWEEN THE PIPE AND TRENCH
- WALL MUST BE WIDER THAN THE COMPACTION EQUIPMENT USED TO COMPACT THE BACKFILL. PROVIDE A MINIMUM OF 4 INCHES OF FIRM, STABLE AND UNIFORM BEDDING MATERIAL IN THE TRENCH BOTTOM. IF ROCK OR UNYIELDING MATERIAL IS ENCOUNTERED, A MINIMUM OF 6 INCHES OF BEDDING SHALL BE USED. BLOCKING SHOULD NOT BE USED TO CHANGE PIPE GRADE OR TO INTERMITTENTLY SUPPORT PIPE OVER
- THE PIPE SHOULD BE SURROUNDED WITH AN AGGREGATE MATERIAL WHICH CAN BE EASILY WORKED AROUND THE SIDES OF THE PIPE. BACKFILLING SHOULD BE PERFORMED IN LAYERS OF 6 INCHES WITH EACH LAYER BEING SUFFICIENTLY COMPACTED TO 85% TO 95% COMPACTION.
- 4. A MECHANICAL TAMPER IS RECOMMENDED FOR COMPACTING SAND AND GRAVEL. THESE MATERIALS CONTAIN FINE-GRAINS, SUCH AS SILT AND CLAY. IF A TAMPER IS NOT AVAILABLE, COMPACTING SHOULD BE DONE
- 5. THE TRENCH SHOULD BE COMPLETELY FILLED. THE BACKFILL SHOULD BE PLACED AND SPREAD IN UNIFORM LAYERS TO PREVENT ANY UNFILLED SPACES OR VOIDS. LARGE ROCKS, STONES, FROZEN CLODS, OR OTHER LARGE DEBRIS SHOULD BE REMOVED. STONE BACKFILL SHALL PASS THROUGH AN 1-1/2" SIEVE. ROCK SIZE SHOULD BE ABOUT ONE-TENTH OF THE PIPE OUTSIDE DIAMETER. HEAVY TAMPERS OR ROLLING EQUIPMENT SHOULD
- 6. TO PREVENT DAMAGE TO THE PIPE AND DISTURBANCE TO PIPE EMBEDMENT, A MINIMUM DEPTH OF BACKFILL ABOVE THE PIPE SHOULD BE MAINTAINED. PIPE SHOULD ALWAYS BE INSTALLED BELOW THE FROST LEVEL. TYPICALLY, IT IS NOT ADVISABLE TO ALLOW VEHICULAR TRAFFIC OR HEAVY CONSTRUCTION EQUIPMENT

BESRICK G. PLUMMER

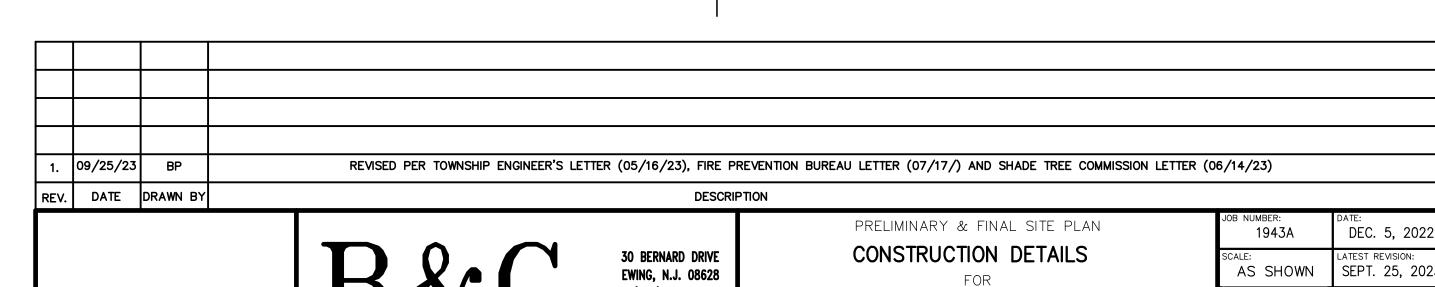
PROFESSIONAL ENGINEER NEW JERSEY LIC. NO. 39534

PVC PIPE BEDDING DETAIL



HANDICAPPED PARKING SPACE SIGN DETAILS N.T.S. 1. THIS DETAIL REPRESENTS THE STANDARD DETAIL FOR HANDICAP SIGN INSTALLATION, IF NEW SIGNS NEED TO BE INSTALLED, DUE TO DAMAGE TO EXISTING SIGNS.

TOW-AWAY ZONE



GALILEE EGLISE ADVENTISTE, INC. Phone (732) 598-6616 Fax (609) 671-0715 PROPOSED CHURCH LOT 4, BLOCK 3301 12 of 13

NEPTUNE TOWNSHIP MONMOUTH COUNTY NEW JERSEY

