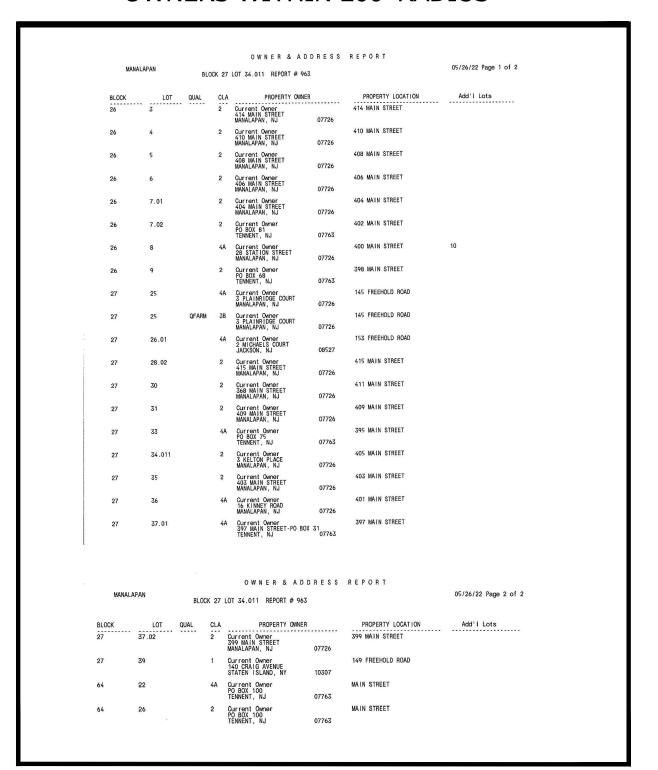


# **ZONING MAP N.T.S**

# INDEX OF SHEET 1 OF 15 COVER SHEET 2 OF 15 EXISTING CONDITIONS 3 OF 15 SITE PLAN 4 OF 15 STRIPING PLAN 5 OF 15 GRADING AND UTILITY PLAN 6 OF 15 DRAINAGE PLAN 7 OF 15 LANDSCAPE PLAN 8 OF 15 LIGHTING PLAN 9 OF 15 PROFILES & CROSS SECTIONS I 10 OF 15 PROFILES & CROSS SECTION II 11 OF 15 PROFILES & CROSS SECTION II 12 OF 15 STANDARD CONSTRUCTION DETAILS I 13 OF 15 STANDARD CONSTRUCTION DETAILS II 14 OF 15 SOIL EROSION AND SEDIMENT CONTROL PLAN 15 OF 15 SOIL EROSION AND SEDIMENT CONTROL NOTES

# OWNERS WITHIN 200' RADIUS



APPROVED AS PRELIMINARY AND FINAL SITE PLAN AND USE VARIANCE BY THE ZONING BOARD OF MANALAPAN TOWNSHIP, MONMOUTH COUNTY, NEW JERSEY, AT A MEETING HELD ON				
CHAIRPERSON	DATE			
SECRETARY	DATE			
TOWNSHIP ENGINEER	DATE			

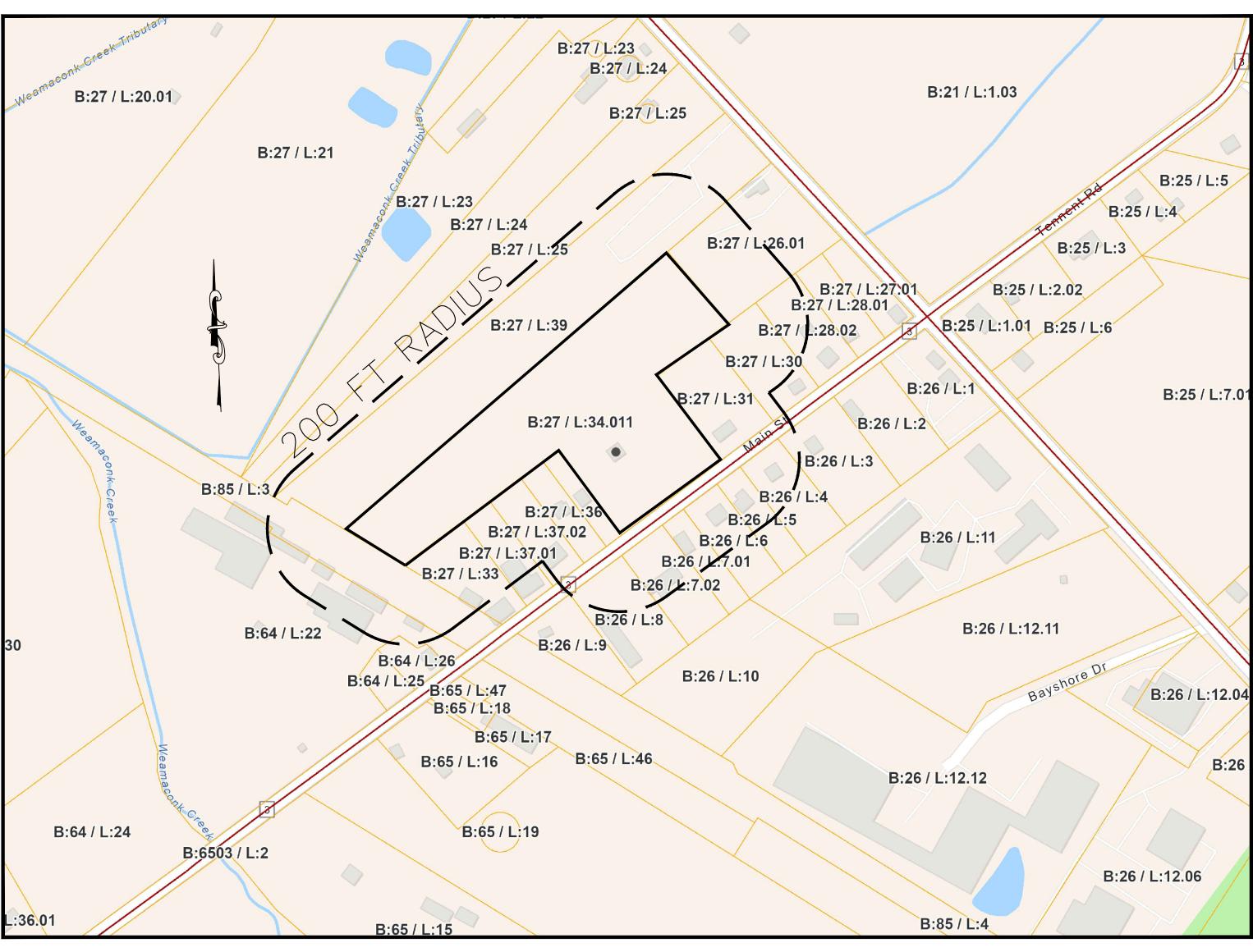
# PRELIMINARY AND FINAL SITE AND USE VARIANCE PLAN FOR

"TRIPLET SQUARE LLC"

BLOCK 27 LOT 34.011

405 MAIN STREET, MANALAPAN TOWNSHIP,

MONMOUTH COUNTY, NEW JERSEY



KEY/TAX MAP SCALE: 1" = 200'

OWNER/APPLICANT:

TRIPLET SQUARE, LLC.
C/O NICHOLAS CAMPANELLA
3 KELTON PLACE
MANALAPAN, NJ 07726

OUTSIDE AGENCY APPROVALS REQUIRED

FREEHOLD SOIL CONSERVATION DISTRICT
NJDEP - LOI AND FHA - PERMITTING
MONMOUTH COUNTY PLANNING BOARD
FREE HOLD AREA HEALTH DEPARTMENT



# AERIAL MAP 1"-300"

NERAL NOTES

- ALL UTILITIES SHALL BE INSTALLED UNDERGROUND.
- 3. PROPOSED DEVELOPMENT SHALL COMPLY WITH RECYCLABLE AREA REQUIREMENT OF TOWNSHIP ORDINANCE AND SOLID WAS COLLECTION SHALL BE CONDUCTED CURP SIDE PROVIDE
- THIS PLAN HAS BEEN PREPARED FOR PURPOSES OF AGENCY REVIEW AND APPROVAL ONLY.
  THIS PLAN WILL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL ALL CONDITIONS OF APPROVAL HAVE BEEN SATISFIE
- THE DRAWING AND THE DRAWING HAS BEEN REVISED TO INDICATE "ISSUED FOR CONSTRUCTION".

  ALL DOCUMENTS, INCLUDING DRAWINGS AND SPECIFICATIONS PREPARED BY CONCEPT ENGINEERING CONSULTANTS (CEC) ARE INSTRIMENT OF SERVICE WITH RESPECT TO THE PROJECT ANY RE—USE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY CONCEPT.
- PERMISSION OF CEC IS STRICTLY PROHIBITED.

  EXISTING UTILITY INFORMATION SHOWN HEREON HAS BEEN COLLECTED FROM VARIOUS SOURCES AND IS NOT GUARANTEED E
  THE ENGINEER AS TO ACCURACY OR COMPLETENESS.THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION
  PRIOR TO EXCAVATION BY CONTACTING THE UNDERGROUND UTILITY PLANT LOCATION SERVICES (1-800-272-1000) TO OBTAIL
- PRIOR TO EXCAVATION BY CONTACTING THE UNDERGROUND UTILITY PLANT LOCATION SERVICES (1-800-272-1000) TO OBTAI MARKOUT OF THE UTILITIES.

  WHERE EXISTING UTILITIES ARE TO BE CROSSED BY PROPOSED CONSTRUCTION, TEST PITS SHALL BE DUG BY THE CONTRACT PRIOR TO CONSTRUCTION TO ASCERTAIN EXISTING INVERTS, MATERIAL AND SIZES. TEST PIT INFORMATION SHALL BE GIVEN TO THE PERSON ENGINEER PRIOR TO CONSTRUCTION TO REPORT ADMINISTRATE AS PROPRIED TO AVOID CONFIDENCE.
- THE DESIGN ENGINEER PRIOR TO CONSTRUCTION TO PERMIT ADJUSTMENTS AS REQUIRED TO AVOID CONFLICTS.

  THE CONTRACTOR SHALL NOTIFY THE UNDERSIGNED PROFESSIONAL IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFF MATERIALLY FROM THOSE REPRESENTED HEREON, AND/OR IF SUCH CONDITIONS IN THE CONTRACTOR'S OPINION SHOULD OR COULD RENDER THE DESIGNS SHOWN HEREON AS INAPPROPRIATE OR INEFFECTIVE.
- DIMENSIONS ARE SHOWN THERETO.

  ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION FOR SITE IMPROVEMENTS SHOWN HEREON SHALL BE IN ACCORDANCE WITH OR MORE OF THE FOLLOWING.
- ONE OR MORE OF THE FOLLOWING:
  N.J. DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AS AMENDED.
- CURRENT, PREVAILING MUNICIPAL AND/OR COUNTY SPECIFICATIONS, STANDARDS AND REQUIREMENTS.
- 2. THE APPLICANT WILL HOLD AND STORE ALL TRASH AND RECYCLABLES INTERNALLY AND PUT SAME OUT FOR CURBSIDE PICK ( 3. ALL SUBGRADE SHALL BE INSPECTED AND APPROVED BY THE TOWNSHIP ENGINEER PRIOR TO THE INSTALLATION OF ANY IPROVEMENTS. ALL PAVEMENT SUB-GRADE AND SUB-BASE SHALL BE SUBJECT TO A PROOF ROLL, WHICH SHALL BE
- 48 HOURS NOTICE MUST BE PROVIDED TO THE TOWNSHIP ENGINEER PRIOR TO THE INSTALLATION OF ANY IMPROVEMENTS.

  RETAINING WALL TO BE DESIGNED AND CERTIFIED BY A STRUCTURAL ENGINEER AND MUST BE PROVIDED TO TOWNSHIP ENGINEER FOR TO CONSTRUCTION OF RETAINING WALLS.

  PRIOR TO CONSTRUCTION, DESIGN CALCULATIONS FOR ALL ALLAN BLOCK RETAINING WALLS EXCEEDING 2.5 FEET TO BE PROVIDED
- 17. UPON COMPLETION OF WALL CONSTRUCTION, CERTIFICATION TO BE PROVIDED BY A STRUCTURAL ENGINEER TO VERIFY WALL CONSTRUCTION IS IN ACCORDANCE WITH APPROVED DESIGN AND CONFORMANCE OF ON SITE MATERIAL WITH DESIGN ASSUMPTIONS.

  18. INFILTRATION BASINS SHALL NOT BE PUT INTO OPERATION UNTIL UPSTREAM DRAINAGE AREA HAS BECOME FULLY STABILIZED. BASIN SAND LAYER SHALL NOT BE EXCAVATED AND PUT IN UNTIL UPSTREAM AREA HAS BECOME STABLE. THE BASIN, IN THE MEANTIME, WILL ACT AS A DETENTION BASIN TO CONTROL STORMWATER RUNOFF UNTIL ITS TIME FOR THE SAND LAYER TO BE
- 19. ALL IMPORTED FILL TO MEET DEFINITION OF CLEAN FILL, PURSUANT TO TECHNICAL REQUIREMENTS FOR SITE REMEDIATION AS SET FORTH IN NJAC 7:26E-1.8.
- 20. THE LOCATION OF THE PROPOSED FIRE HYDRANTS ARE TO BE APPROVED BY THE TOWNSHIP FIRE OFFICIAL.
  21. THESE GENERAL NOTES APPLY TO ALL SHEETS IN THIS SET OF PLANS.
  22. A DEED NOTICE PER NJAC 7:8-5.2(m) SHALL BE SUBMITTED FOR REVIEW PRIOR TO RECORDING WITH MONMOUTH COUNTY.
  23. IN ACCORDANCE WITH N.J.A.C 7:13-11.2(b)3 ,ALL EXISTING ONSITE IMPERVIOUS SURFACE LOCATED WITHIN 25 FEET OF THE TOP OF BANK IS TO BE REMOVED AND THE RIPARIAN ZONE TO BE REPLANTED WITH VEGETATION IN ACCORDANCE WITH N.J.A.C

COVER SHEET

"TRIPLET SQUARE LLC"

BLOCK 27 , LOT 34.011

SITUATED ON:

LOCATED ON 405 MAIN STREET AS SHOWN ON TAX

MAP OF TOWNSHIP OF MANALAPAN SHEET 20,

MONMOUTH COUNTY, NJ

CONCEPT ENGINEERING CONSULTANTS, P.A.

123 HIGHWAY #33 EAST, SUITE #204, MANALAPAN, NJ.07726

PROFESSIONAL FIGHERS – LAND SURVEYORS

PROFESSIONAL ENGINEER NJ. LIC. No. 1551

DATE

06-06-22

SCALE

AS SHOWN

ORAIM/BY:

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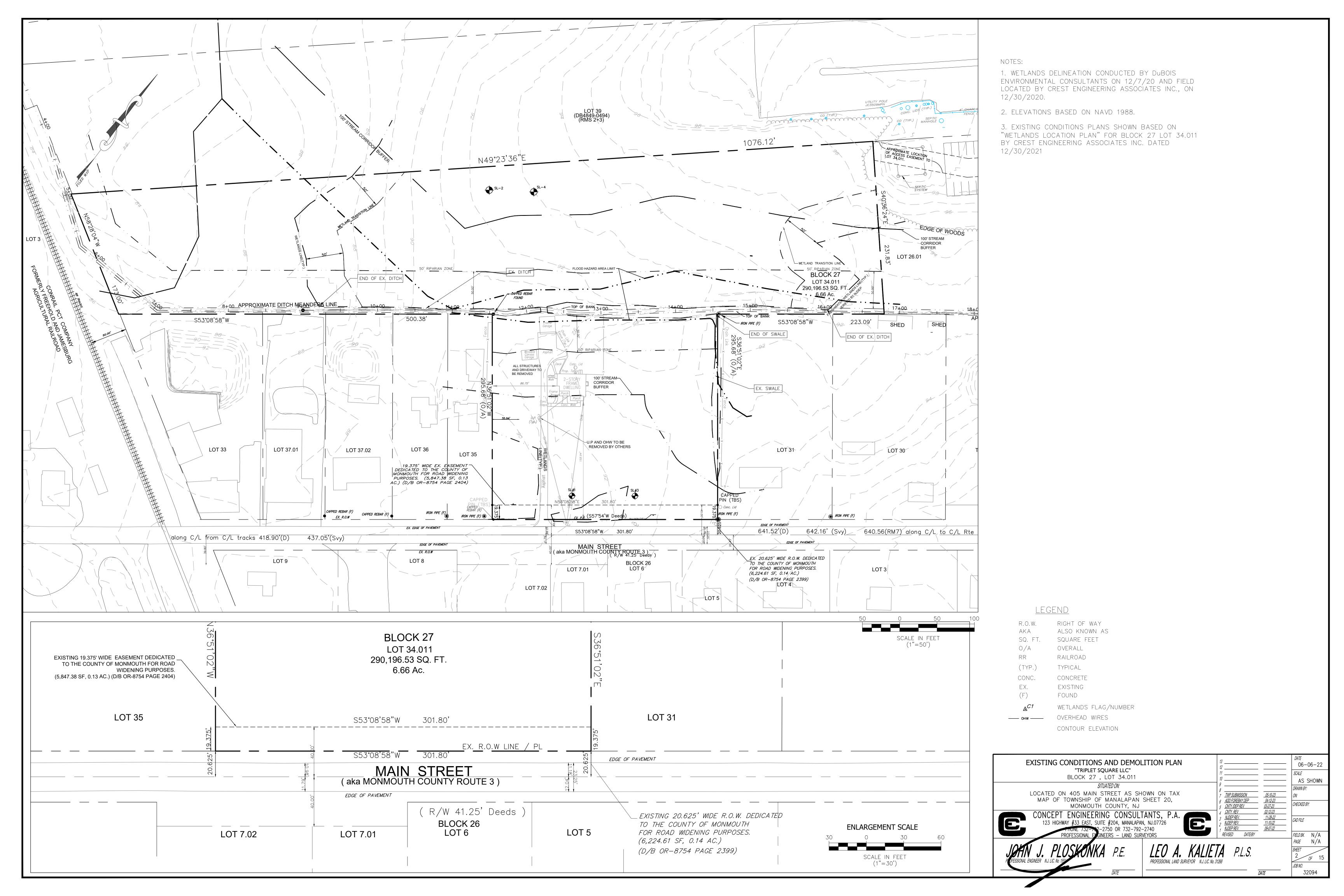
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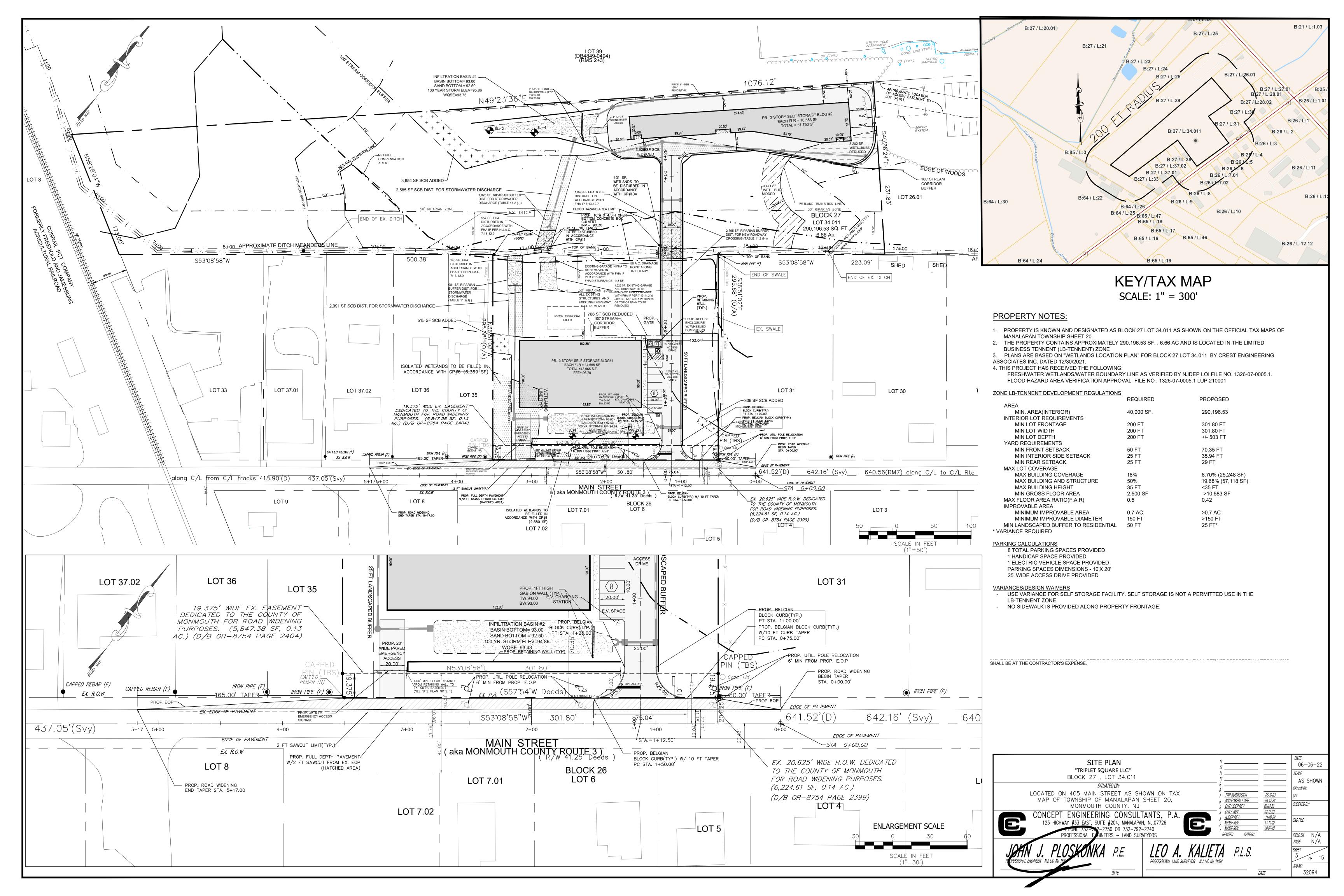
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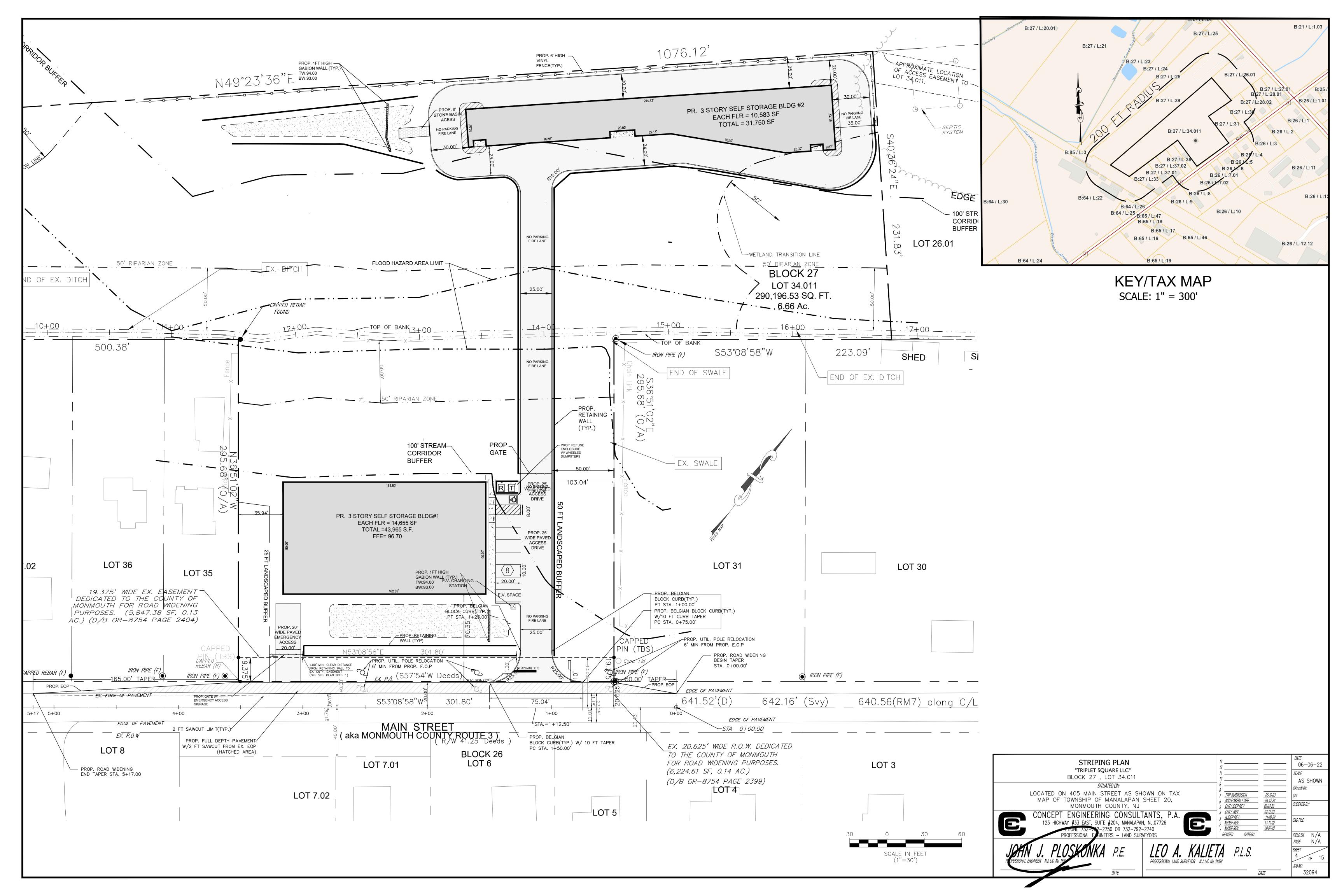
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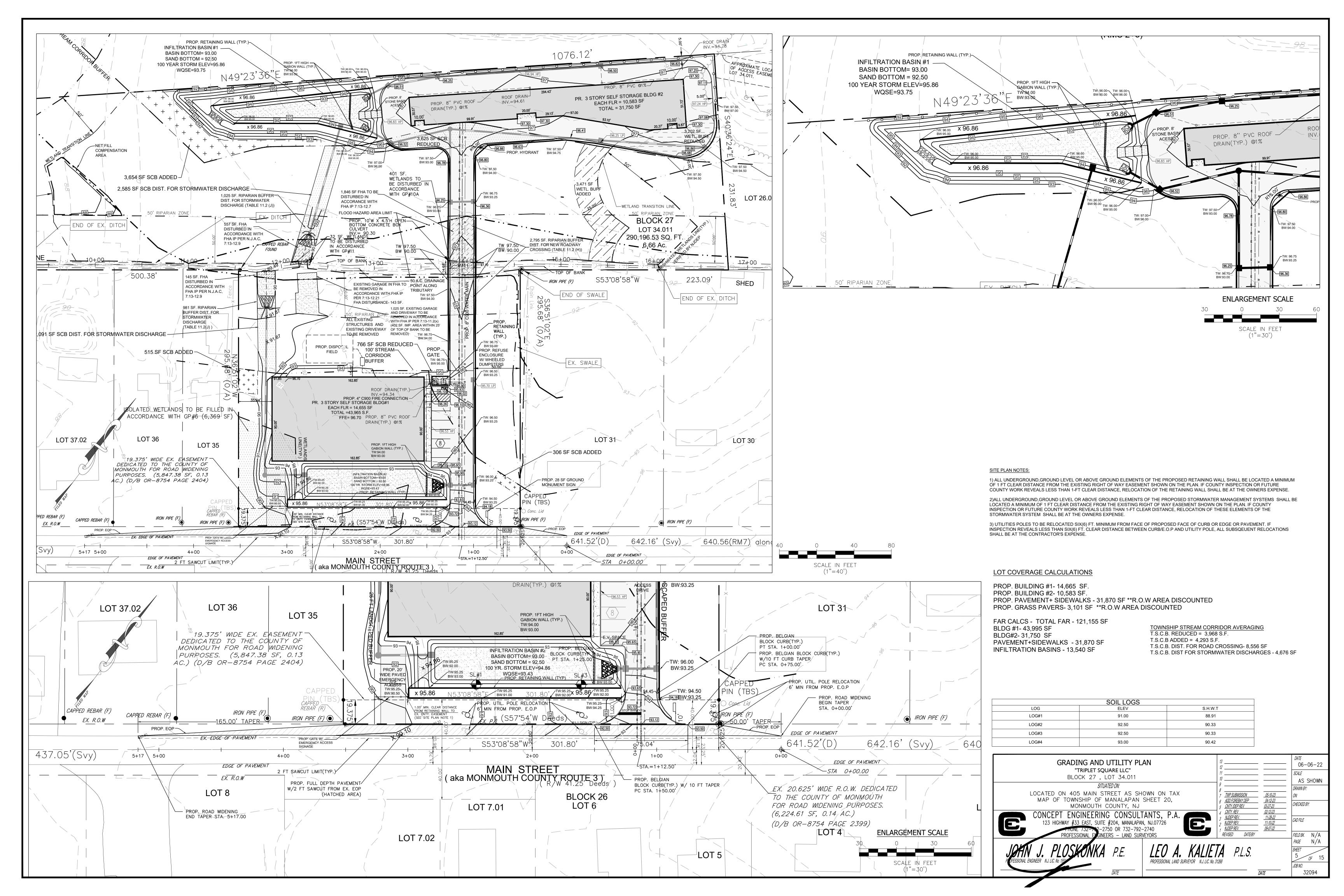
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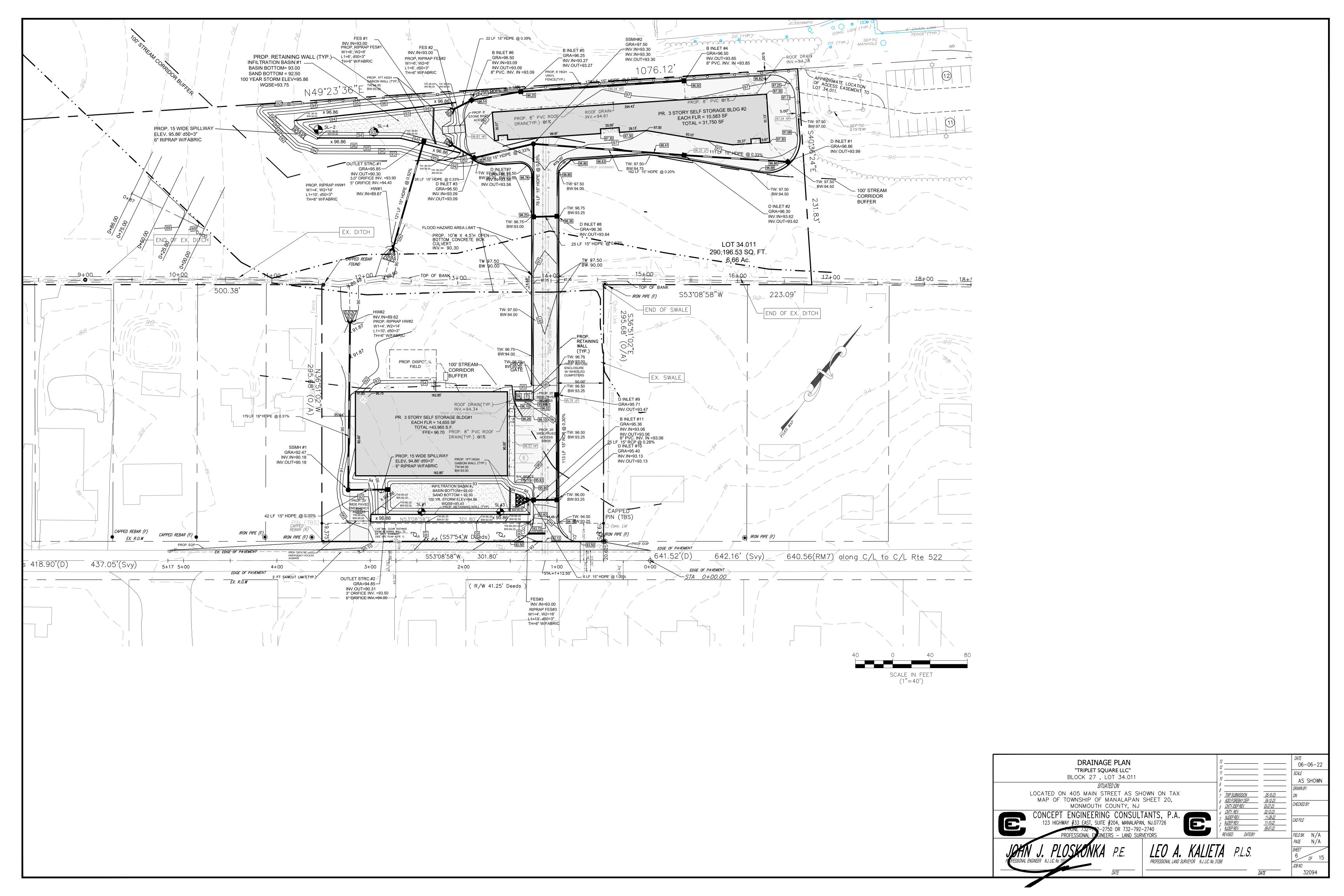
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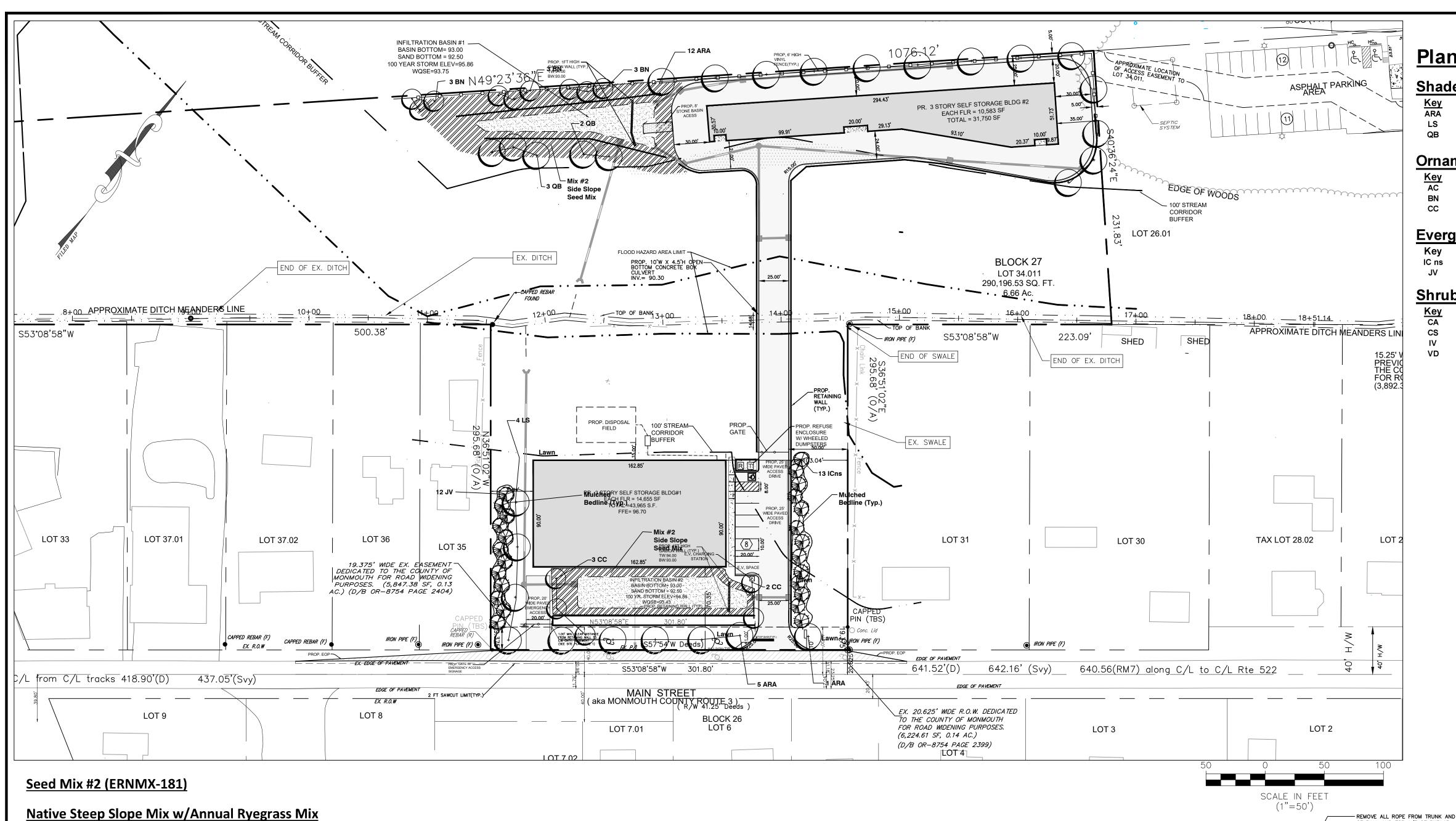












# **Mix Composition**

31.1% Sorghastrum nutans, NY4 Ecotype (Indiangrass, NY4 Ecotype)

20.0% Lolium multiflorum (Annual Ryegrass) 14.0% Andropogon gerardii, 'Niagara' (Big Bluestem, 'Niagara')

10.0% Elymus canadensis (Canada Wildrye)

7.0% Elymus virginicus, Madison-NY Ecotype (Virginia Wildrye, Madison-NY Ecotype)

4.0% Agrostis perennans, Albany Pine Bush-NY Ecotype (Autumn Bentgrass, Albany Pine Bush-NY

4.0% Panicum virgatum, 'Shawnee' (Switchgrass, 'Shawnee')

3.0% Panicum clandestinum, Tioga (Deertongue, Tioga) 1.5% Echinacea purpurea (Purple Coneflower)

1.3% Chamaecrista fasciculata, PA Ecotype (Partridge Pea, PA Ecotype) 1.2% Heliopsis helianthoides, PA Ecotype (Oxeye Sunflower, PA Ecotype)

1.0% Coreopsis lanceolata (Lanceleaf Coreopsis) 1.0% Rudbeckia hirta (Blackeyed Susan)

0.3% Monarda fistulosa, Fort Indiantown Gap-PA Ecotype (Wild Bergamot, Fort Indiantown Gap-PA

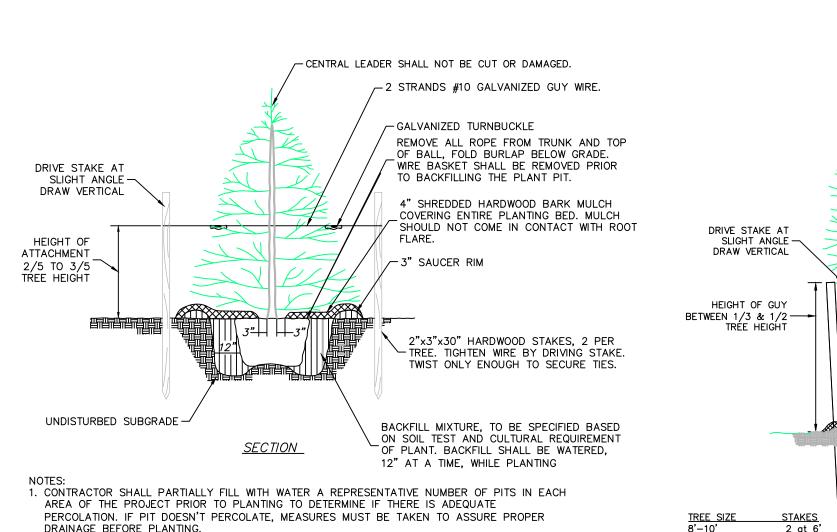
0.2% Asclepias syriaca (Common Milkweed)

0.2% Solidago rugosa, PA Ecotype (Wrinkleleaf Goldenrod, PA Ecotype) 0.1% Aster lateriflorus (Calico Aster)

0.1% Aster pilosus, PA Ecotype (Heath Aster, PA Ecotype)

Seeding Rate: 60 lb per acre, or 1.5 lb per 1,000 sq ft.

Ernst Conservation Seeds, Inc. 8884 Mercer Pike, Meadville PA 16335 (800) 873-3321



2 at 6 DRAINAGE BEFORE PLANTING.

2. CONTRACTOR SHALL REMOVE STAKING, GUYING AND WRAP AT END OF GUARANTEE PERIOD. ALL PLANTING MUST BE GUARANTEED FOR ONE FULL GROWING SEASON FROM THE TIME OF FINAL ACCEPTANCE BY THE TOWNSHIP LANDSCAPE ARCHITECT OR ENGINEER.

3. ALL PLANTING MUST BE GUARANTEED FOR ONE FULL GROWING SEASON FROM TIME OF FINAL ACCEPTANCE BY THE TOWNSHIP LANDSCAPE ARCHITECT OR ENGINEER.

4. THE TREE ROOT FLARE MUST BE EXPOSED AND NOT COME INTO CONTACT WITH MULCH.

5. STAKES AND GUY WIRE SHALL ONLY BE USED WHEN CONDITIONS MERIT. 2 at 7' 2 at 8' (SEE MAJOR TREE GUYING DETAIL)

EVERGREEN TREE PLANTING DETAIL

NO SCALE

- REMOVE ALL ROPE FROM TRUNK AND TOP OF BALL AND TOP 1/3 OF BURLAP. 4" THOROUGHLY COMPOSTED ORGANIC MULCH COVERING ENTRE PLANTING BED. MULCH SHOULD NOT COME IN CONTACT WITH THE ROOT FLARE. ---- 3" SAUCER RIM BACKFILL MATERIAL FOR PLANTING PITS SHALL BE COMPOSED OF 70% TOPSOIL FROM THE SITE OR SELECT TOPSOIL, FREE OF ACIDIC MARL, STICKS, LARGE STONES, DEBRIS OR OTHER OBJECTIONABLE MATERIAL AND 20% PEAT MOSS AND 10% FULLY COMPOSTED HORSE OR COW MANURE, AND SHALL BE AMENDED AS INDICATED ON THE CERTIFIED SOIL EROSION CONTROL PLAN, OR AS INDICATED BY SOIL TESTS. SECTION



NO SCALE

NOTE: GUYS ON MULTI-STEM TREES TO BE MADE ON HEAVIEST BRANCHES OF THE PLANT. 2 STRANDS #10 GALVANIZED GUY WIRE AND TURN BUCKLE -RIGID PLASTIC MESH TREE GUARD \_VERTICAL STAKES , CEDAR OR APPROVED EQUIVALENT , EQUALLY SPACED. REMOVE ALL ROPE FROM TRUNK & TOP OF BALL, FOLD — BURLAP BELOW GRADE. WIRE BASKET SHALL BE REMOVED PRIOR TO BACKFILLING THE PLANT PIT. TOP OF BALL/NURSURY GRADE TO BE \_\_4" THICK THOROUGHLY COMPOSTED ORGANIC MULCH, UNIFORMLY SPREAD. MULCH SHOULD NOT COME IN CONTACT WITH ROOT FLARE. - 3" HIGH SAUCER RIM BACKFILL MATERIAL FOR PLANTING PITS SHALL BE COMPOSED OF 70% TOPSOIL FROM THE SITE OR SELECT TOPSOIL, FREE OF ACIDIC MARL, STICKS, LARGE STONES, DEBRIS R OTHER OBJECTIONABLE MATERIAL AND 20% PEAT MOSS AND 10% FULLY COMPOSTED HORSE OR COW MANURE, AND SHALL BE AMENDED AS INDICATED ON THE CERTIFIED SOIL EROSION CONTROL PLAN, OR AS INDICATED BY SOIL TESTS. CONTRACTOR SHALL PARTIALLY FILL WITH WATER, A REPRESENTATIVE NUMBER OF PITS IN EACH AREA OF THE PROJECT PRIOR TO PLANTING TO DETERMINE IF THERE IS ADEQUATE PERCOLATION. IF PIT DOES NOT PERCOLATE, MEASURES MUST BE TAKEN \_UNDISTURBED SUBGRADE

PRUNE DAMAGED & CONFLICTING BRANCHES — MAINTAINING NORMAL TREE SHAPE . NEVER

CUT CENTRAL TRUNK OR LEADER.

TO ASSURE PROPER DRAINAGE BEFORE PLANTING.

2. CONTRACTOR SHALL REMOVE STAKING, GUYING & WRAP AT END OFF GUARANTEE

3. ALL PLANTING MUST BE GUARANTEED FOR ONE FULL GROWING SEASON FROM TIME OF FINAL ACCEPTANCE BY THE TOWNSHIP LANDSCAPE ARCHITECT OR ENGINEER.

4. THE TREE ROOT FLARE MUST BE EXPOSED AND NOT COME INTO CONTACT WITH MULCH.

DECIDUOUS TREE PLANTING DETAIL

# Planting Schedule

## **Shade Trees**

<u>7</u>	Quan. 19 8 5	Common Name 'Armstrong' Red Maple Sweetgum Swamp White Oak	Botanical Name Acer rubrum 'Armstrong' Liquidambar styraciflua Quercus bicolor	<u>Size</u> 2 -2 1/2" Cal. 2 -2 1/2" Cal. 2 -2 1/2" Cal.	Root B&B B&B B&B	Comments Full Specimen Full Specimen Full Specimen		
amental Trees								
<u>′</u>	Quan. 4	Common Name Shadblow Serviceberry	Botanical Name Amelanchier canadensis	<u>Size</u> 8-10'	Root B&B	Comments Multi-stem		

River Birch

5	Eastern Redbud	Cercis canadensis	8-10'	B&B	Full Specim
reen	Trees				
Quan.	Common Name	<b>Botanical Name</b>	Size	Root	Comment
13	Nellie Stevens Holly	llex Crenata "Nellie Stevens"	7-8'	B&B	Full Specim

Juniperus virginiana

Betula nigra

# 15 Eastern Red Cedar

<u>irubs</u>						
ey	Quan.	Common Name	<b>Botanical Name</b>	Size	Root	Comments
A	12	Summersweet	Clethra alnifolia 'Hummingbird'	<del>24-30</del> "	2 Gal	Full Specime
S	16	Red Twig Dogwood	Cornus stolonfera	24-30''	2 Gal	Full Specime
V	9	Winter Red Winterberry Holly	llex verticulata "Winter Red"	24-30''	2 Gal	Full Specime
'D	12	Arrowwood Viburnum	Viburnum dentatum	30-36"	B&B	Full Specime

### GENERAL PLANTING NOTES

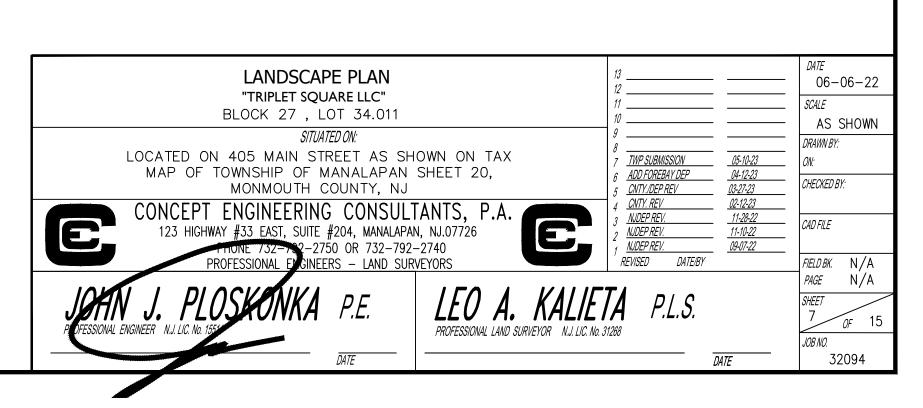
1. This plan is for landscape and lighting purposes only. Refer to engineer's drawings for grading & drainage.

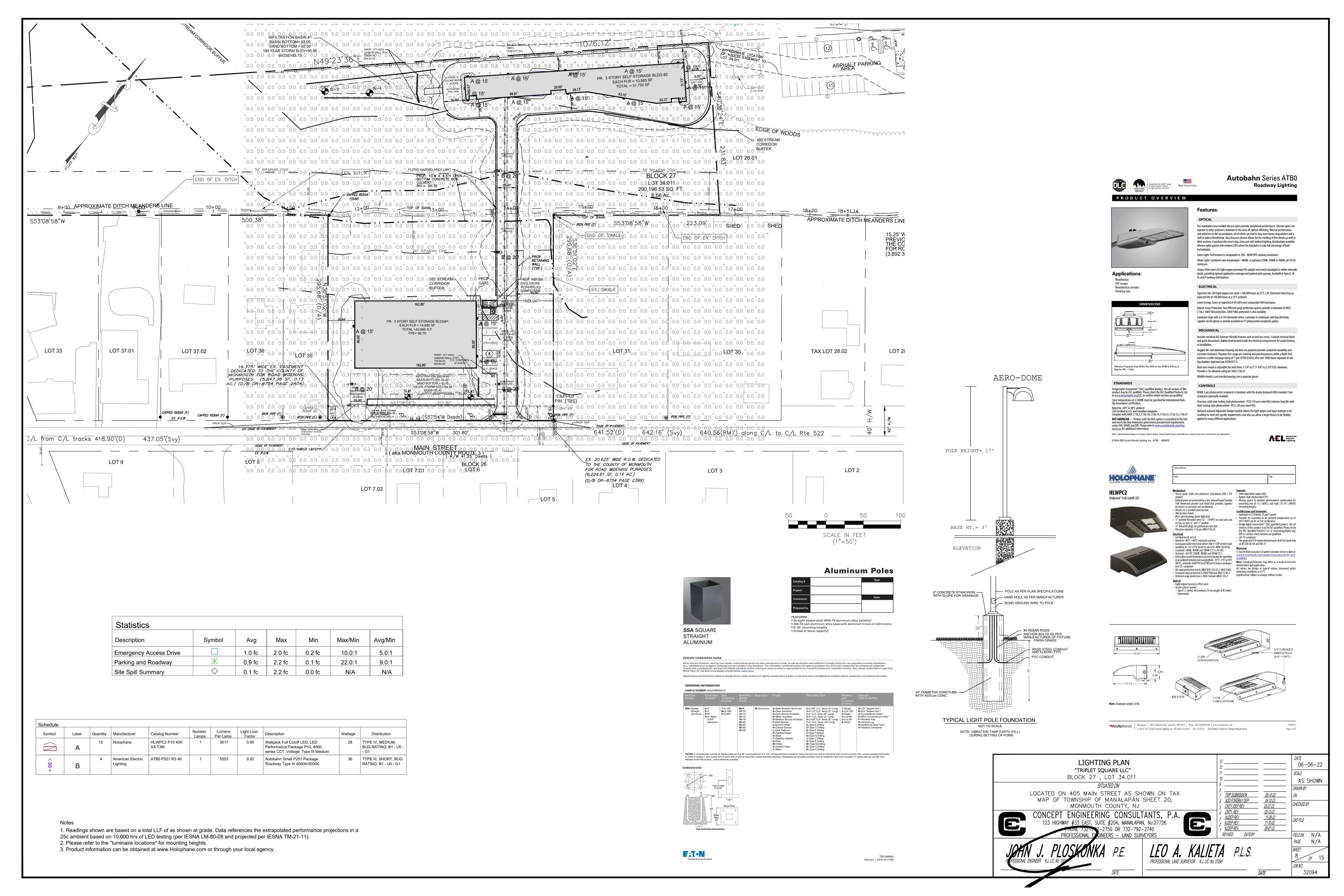
8-10'

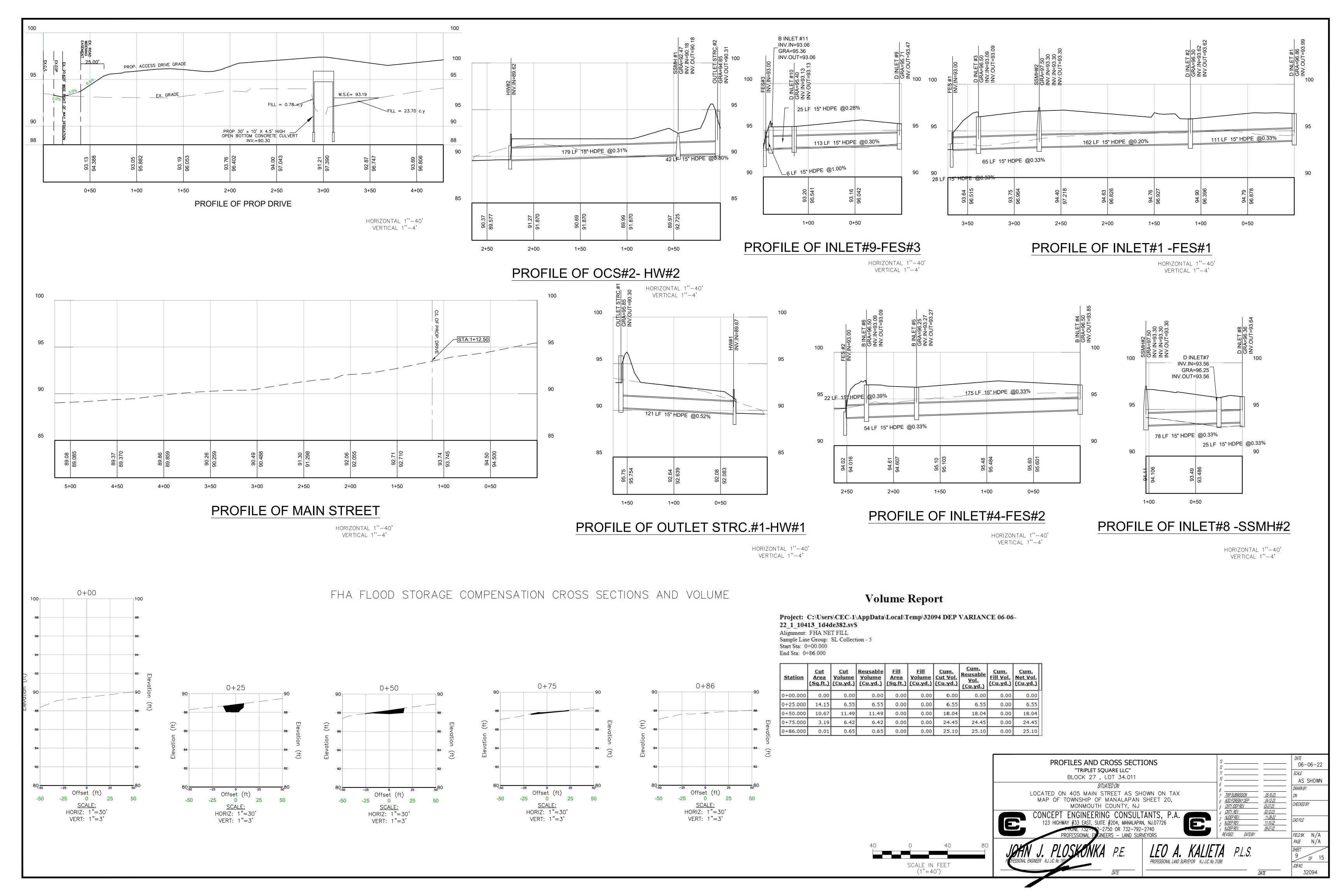
Multi-stem

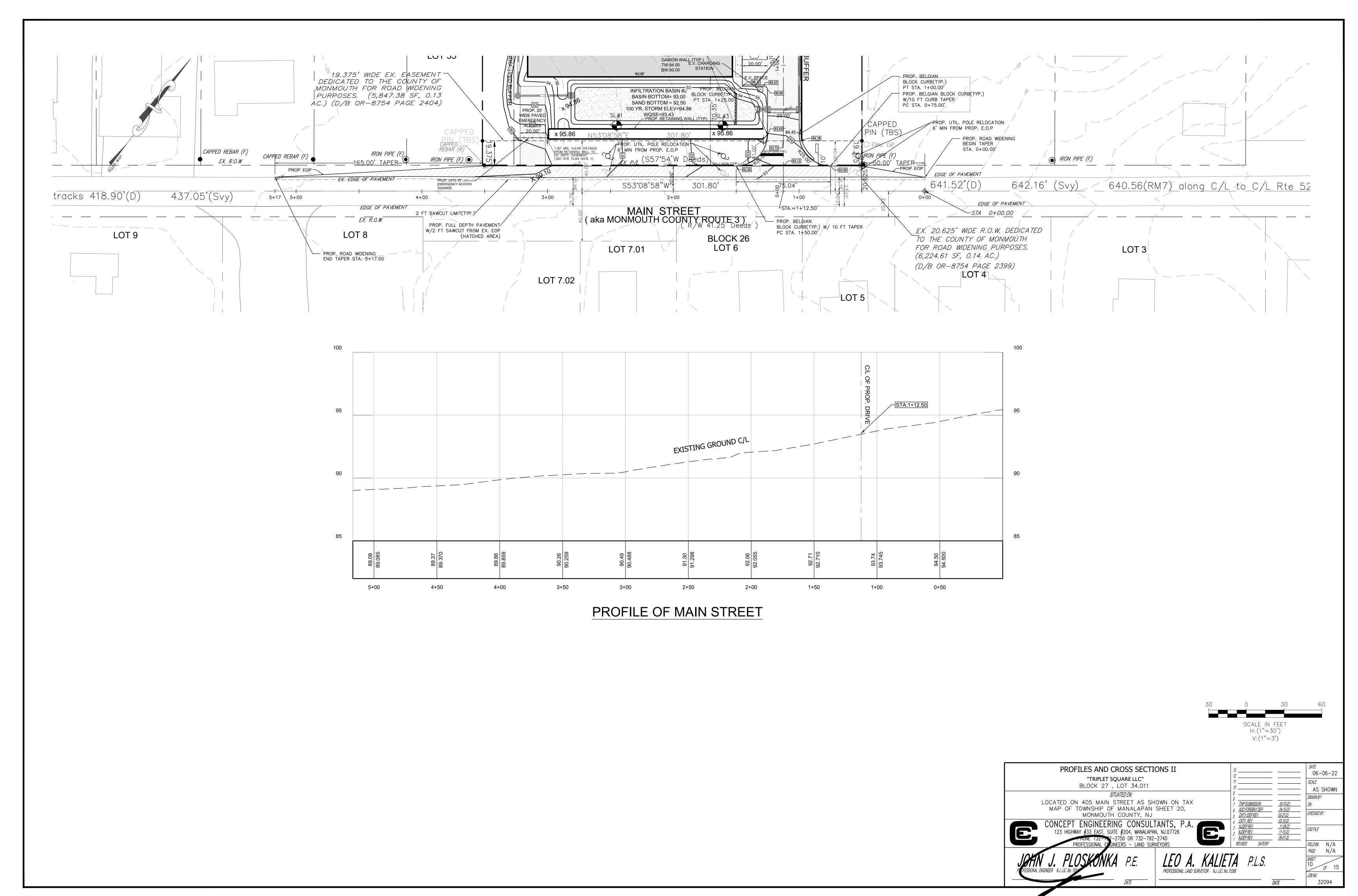
Full Specimen

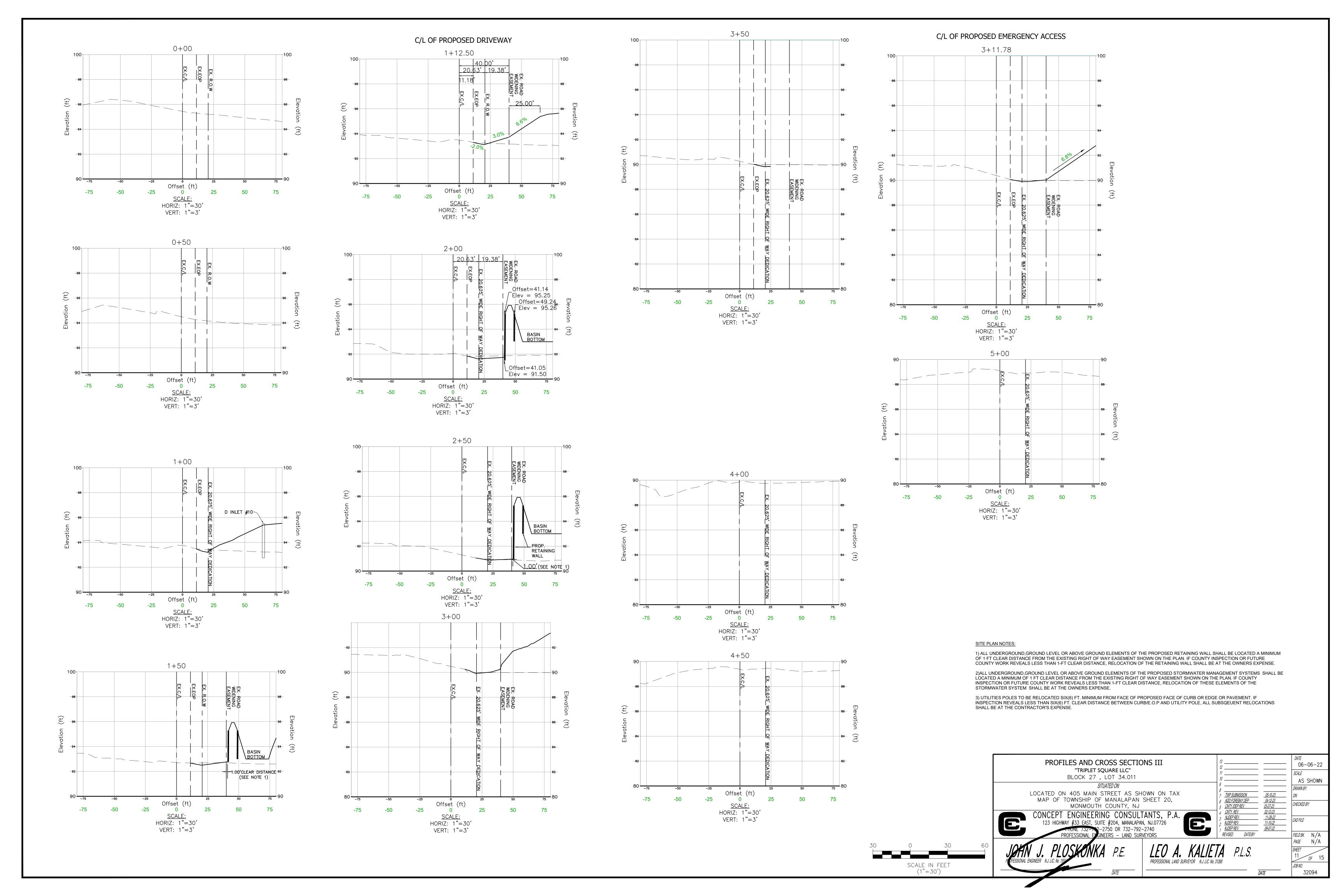
- 2. The final location of all plant material to be determined in the field under the direction of the landscape architect and approved by the municipal engineer or the municipal landscape architect.
- 3. All plant material shall conform to the standards of the American Association of Nurserymen. All plants shall be typical of their species or variety. All plants shall have normal, well—developed branches and vicorous root system they shall be healthy, vigorous, free from defects, disfiguring knots, abrasion of the bark, sunscaled injuries, plants diseases, insect eggs, borers and all other forms of infection. All plants shall be nursery grown.
- 4. The contractor shall provide 4" shredded hardwood bark mulch in all continuous planting beds.
- 5. All plant material shall be property staked, wrapped and planted in conformance with the typical planting details.
- 6. Typical prepared backfill mix shall consist of two parts native soil, one part topsoil, one part moistened peat moss, and 2 lbs, bone meal or equivalent.
- 7. All lawn areas indicated on the plan shall be stabilized with sod or seed (see seed specification) as indicated on the plans. Sod shall consist of a New Jersey certified mixture or an approved equal. Fine grade, lime and fertilize all lawn areas prior to installation.
- 8. All trees, shrubs or ground cover to be preserved on the property shall be protected against damage during construction operations by fencing. The tree protection shall be placed before any excavation or grading has begun and shall be maintained in repair for the duration of the construction.
- 9. All vegetation being preserved shall be selectively thinned and pruned, to remove any dead or diseased limbs or stumps, areas of possible insect infestation, etc.
- 10. All plant material and sizes shall be as specified on the approved landscape plan(s). No substitutions shall be made without prior written permission from the appropriate municipal agency. All substitutions shall be submitted to the township engineer for review and approval prior to installation.
- 11. Landscape contractor shall remain responsible for watering and care of plant material stockpiled or installed unit such time as final inspection by Township arborist and/or Township engineer. At such time as final approval is given, responsibility shall revert to the Owner.
- 12. In the event that plant quantity discrepancies or material omissions occur in the planting schedule, the plan shall supercede.
- 13. All wire baskets are to be removed completely from the plant ball prior to backfilling.
- 14. Refer to the Soil Erosion and Sediment Control Plan for seeding specifications.
- 15. All dead or dying landscape plant material within the project site shall be replaced as part of the site improvement.
- 16. Shade trees to be set back a minimum of 3 feet from face of curb.
- 17. Mulch shall not be installed around the base of any tree.

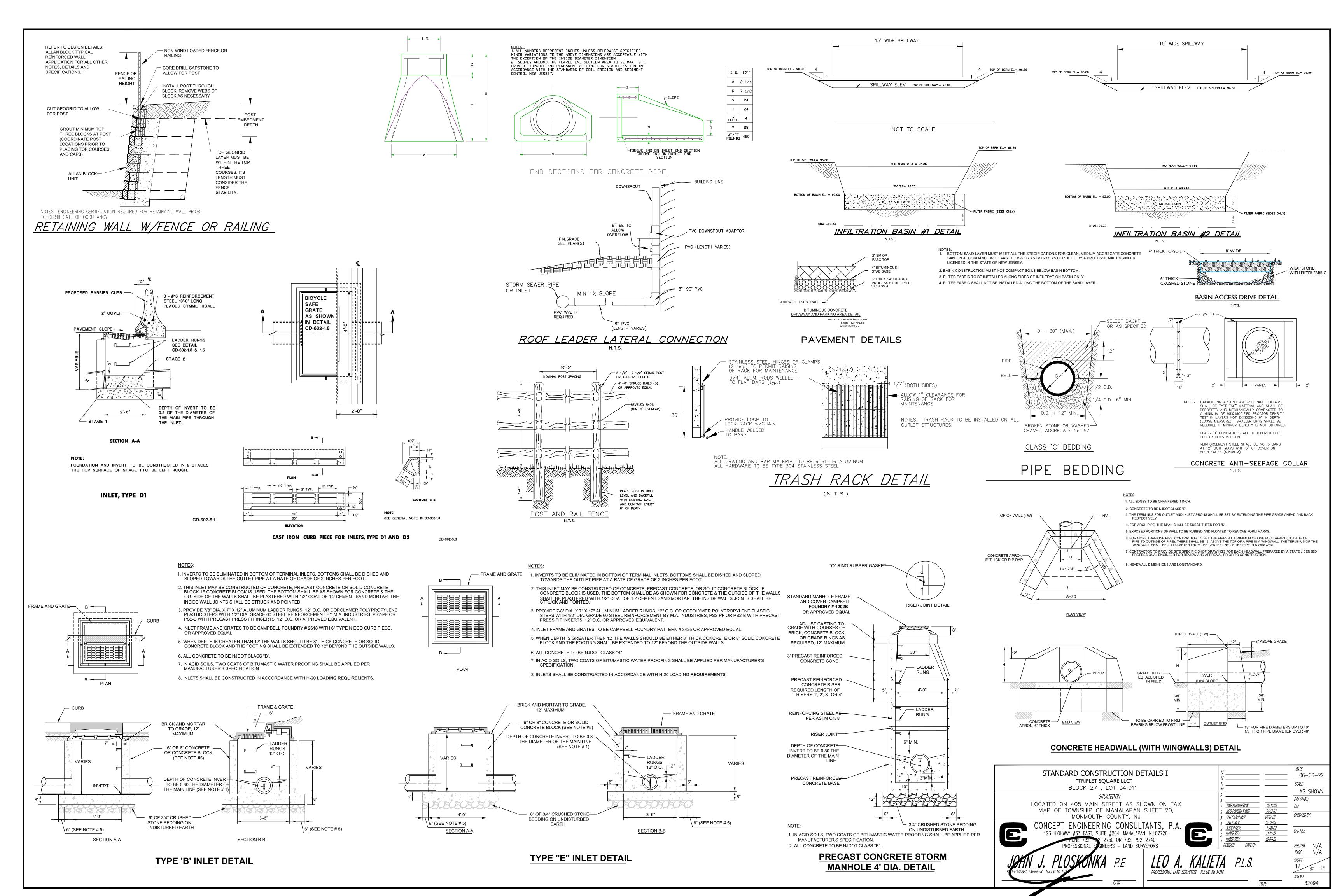


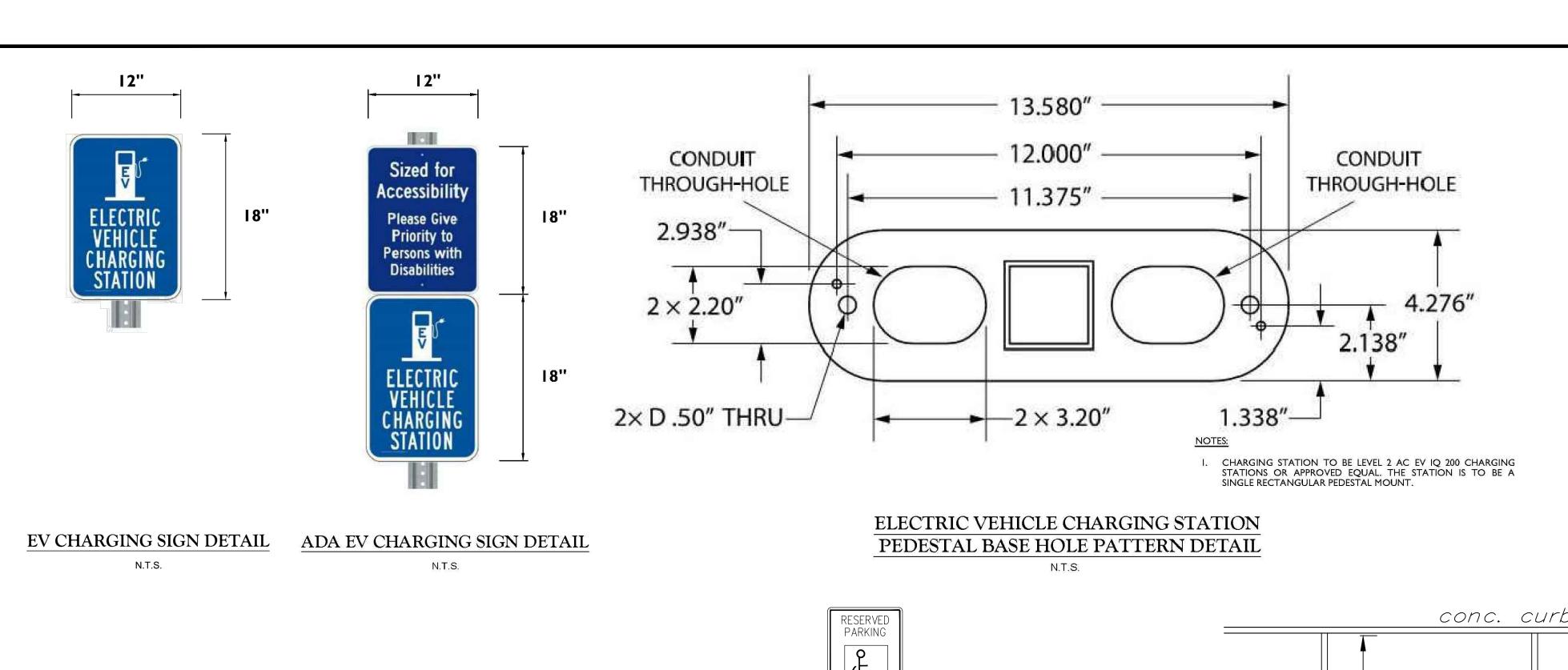


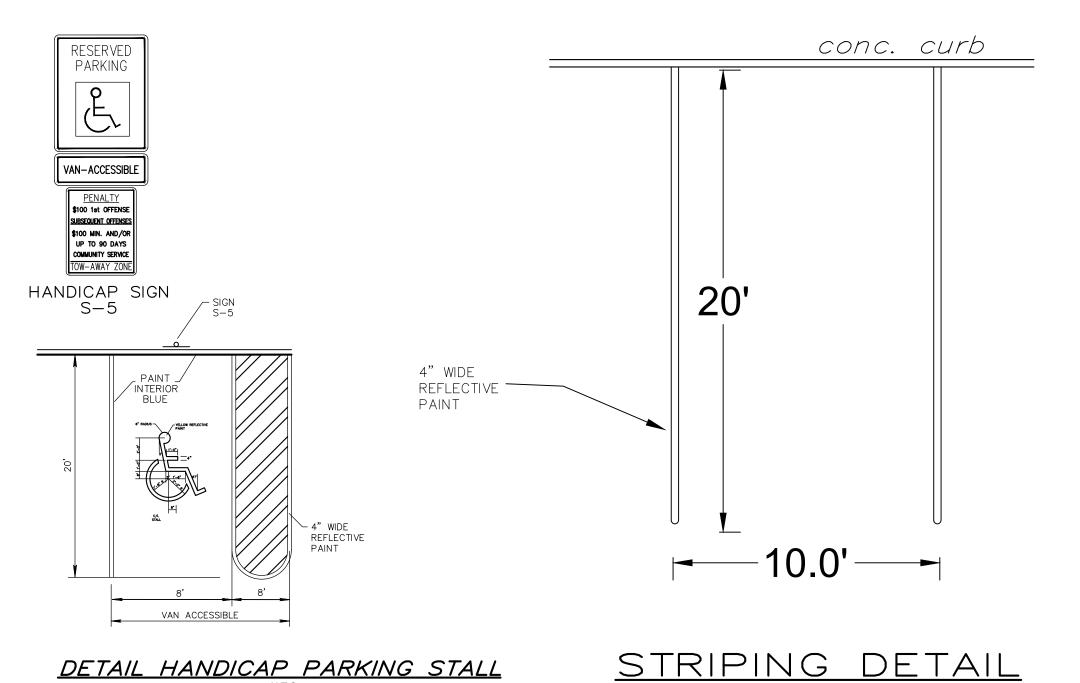












NOT TO SCALE

- 1/2" PREFORMED BITUMINOUS

— BREAKAWAY STEEL

4' MINIMUM

1. ALL POSTS SHALL BE OF ADEQUATE LENGTH TO MEET THE REQUIREMENTS FOR ERECTION, AS STATED IN THE CURRENT MANUAL ON "UNIFORM TRAFFIC CONTROL DEVICES" FOR STREETS AND

4. IN AREAS WITHOUT CURBING, THE OUTER EDGE OF SIGN TO BE 2'-0" MIN FROM E.O.P.

3. ALL POSTS TO BE BREAKAWAY STEEL U-POSTS IN CONFORMANCE

SINGLE POST SIGN

**MOUNTING DETAIL** 

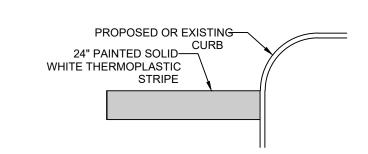
2. ALL POSTS SHALL BE EMBEDDED 4' MINIMUM.

PLAN

PAVEMENT-

ROADWAY -

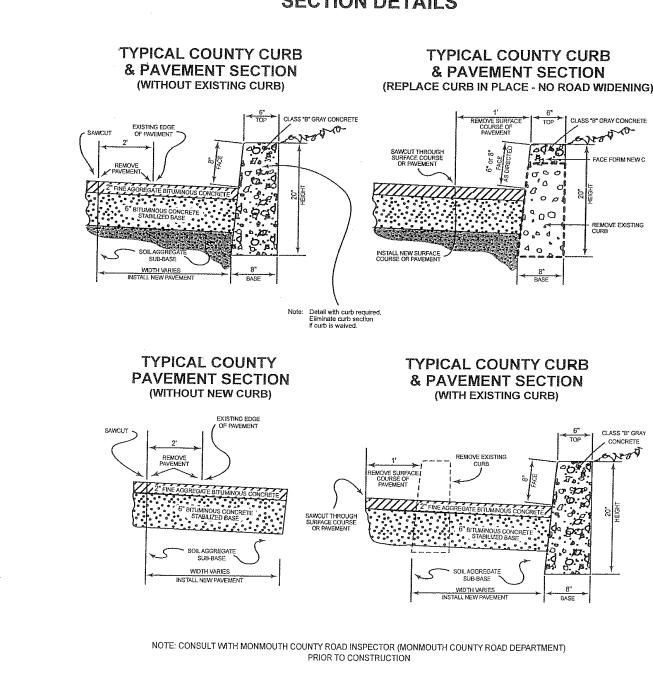


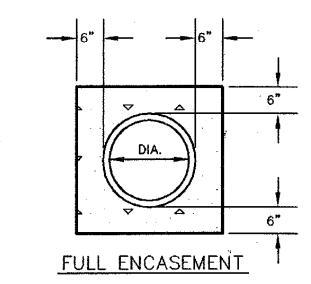


**TYPICAL STOP BAR DETAIL** NOT TO SCALE

# TYPICAL COUNTY CURB AND PAVEMENT SECTION DETAILS

DETAIL HANDICAP PARKING STALL



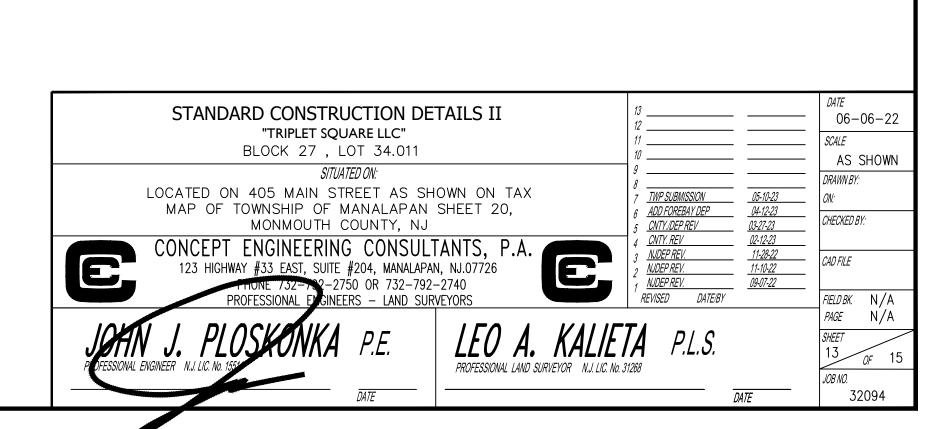


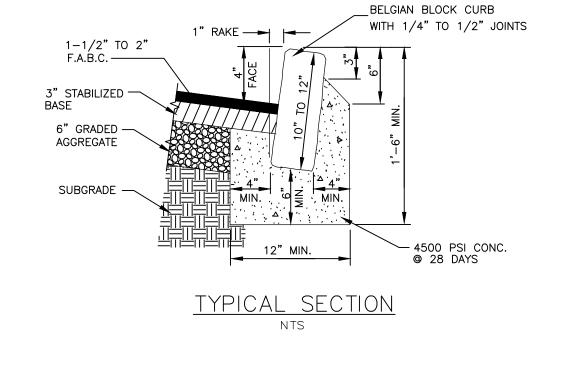


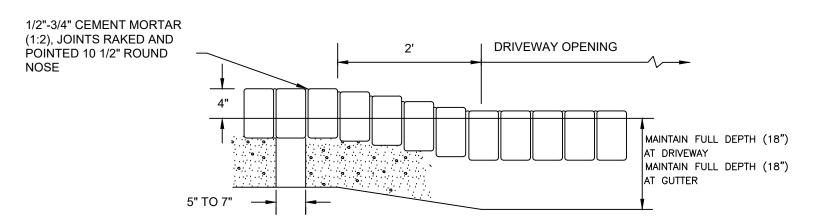
# **CONSTRUCTION NOTES:**

- 1. ENCASEMENT TO BE CONSTRUCTED WHEN VERTICAL CLEARANCE UNDER WATER SYSTEM OR STORM SEWER IS 18" OR LESS, OR WHEN HORIZONTAL CLEARANCE BETWEEN SANITARY SEWER AND WATER MAIN AT THE SAME ELEVATION IS LESS THAN 10'.
- 2. CONCRETE TO BE N.J.D.O.T. CLASS C.
- 3. FULL ENCASEMENT TO BE USED AT ALL TIMES UNLESS OTHERWISE DIRECTED BY THE
- 4. ENCASEMENT SHALL EXTEND A MINIMUM OF TEN FEET (10') ON EITHER SIDE OF

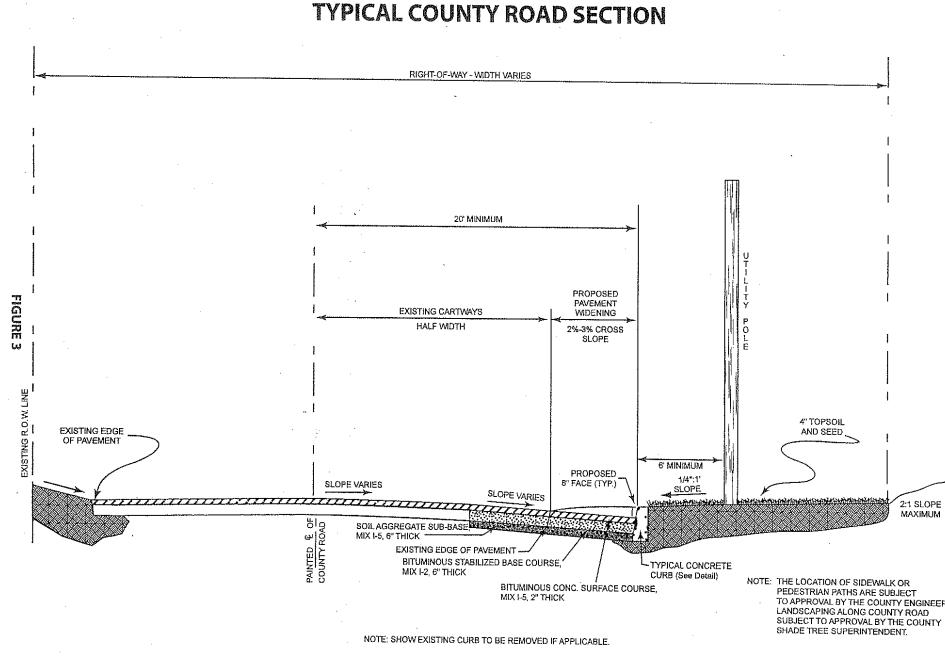
CONCRETE ENCASEMENT



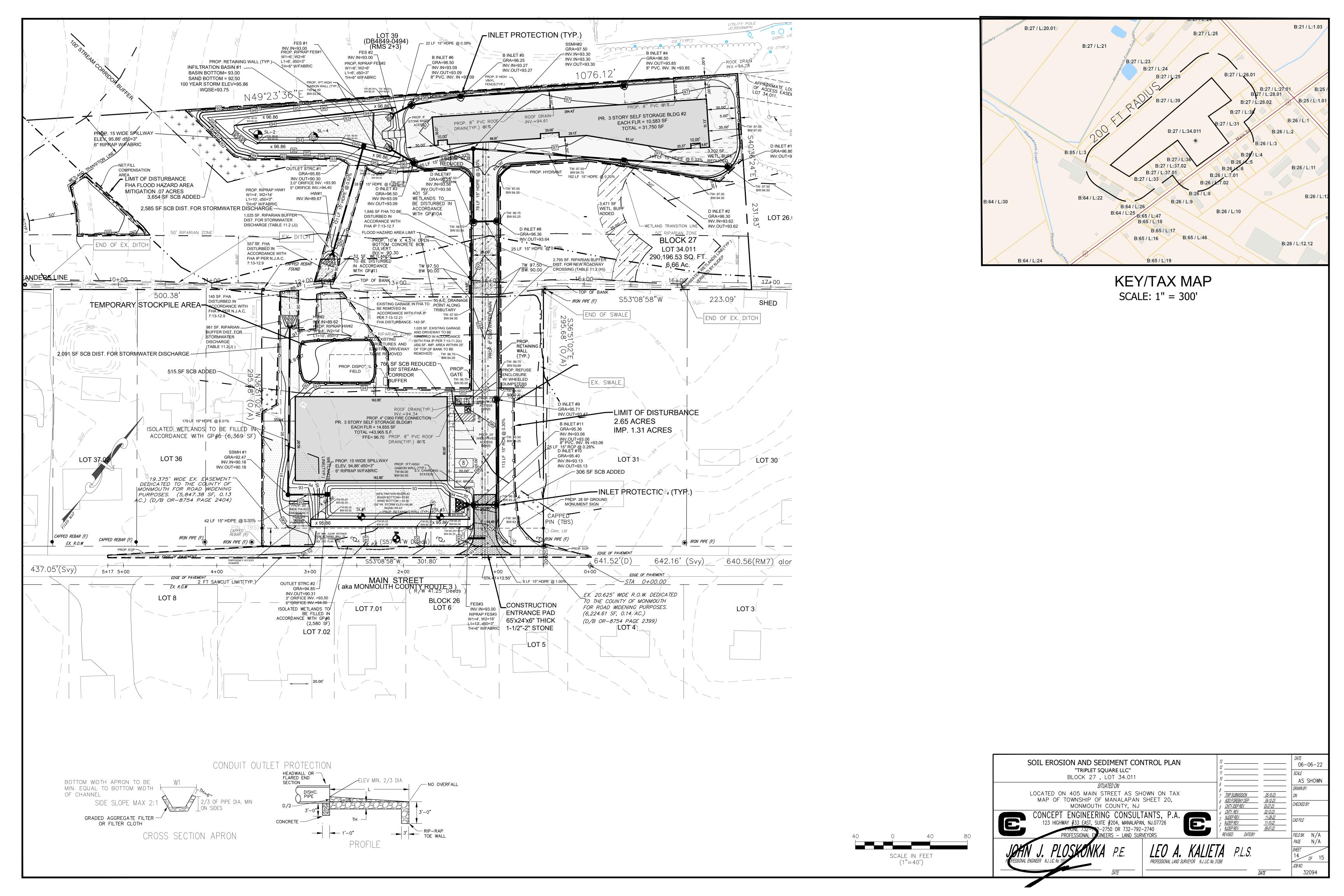




# TYPICAL ELEVATION AT DRIVEWAY BELGIAN BLOCK DETAIL







SOIL EROSION AND SEDIMENT CONTROL NOTES The Freehold Soil Conservation District shall be notified forty-eight (48) hours in advance of any soil STABILIZATION WITH MULCH ONLY MANAGEMENT OF HIGH ACID PRODUCING SOIL SOIL DE-COMPACTION AND TESTING REQUIREMENTS disturbing activity. 1. Limit the excavation area and exposure time when high acid producing soils are Soil Compaction Testing Requirements All Soil Erosion and Sediment Control practices are to be installed prior to soil disturbance, or in encountered. Grade as needed and feasible to permit the use of conventional equipment for seedbed their proper sequence, and maintained until permanent protection is established. Topsoil stripped from the site shall be stored separately from temporarily stockpiled preparation, seeding, mulch application, and mulch anchoring. All grading should be done in 1. Subgrade soils prior to the application of topsoil (see permanent seeding and stabilization notes for topsoil requirements) shall be free of excessive Any changes to the Certified Soil Erosion and Sediment Control Plans will require the submission of high acid producing soils. accordance with Standards for Land Grading. compaction to a depth of 6.0 inches to enhance the establishment of permanent vegetative cover. revised Soil Erosion and Sediment Control Plans to the District for re-certification. The revised plans Stockpiles of high acid producing soil should be located on level land to minimize its Install needed erosion control practices or facilities such as diversions, grade stabilization Areas of the site which are subject to compaction testing and/or mitigation are graphically denoted on the certified soil erosion control plan. must meet all current State Soil Erosion and Sediment Control Standards. 1.0RANGE CONSTRUCTION FENCE SHALL BE IDEALLY LOCATED AT THE OUTER PERIMETER OF THE SPREAD OF THE BRANCHES. 2.IN NO CASE SHALL IT BE CLOSER THAN movement, especially when this material has a high clay content. structures, channel stabilization measures, sediment basins, and waterways. See Standards N.J.S.A 4:24-39 et. Seq. requires that no Certificates of Occupancy be issued before the District Compaction testing locations are denoted on the plan. A copy of the plan or portion of the plan shall be used to mark locations of tests, and Temporarily stockpiled high acid producing soil material to be exposed more than 30 1 through 42. determines that a project or portion thereof is in full compliance with the Certified Plan and attached to the compaction remediation form, available from the local soil conservation district. This form must be filled out and submitted prior to days should be covered with properly anchored, heavy grade sheets of polyethylene where Standards for Soil Erosion and Sediment Control in New Jersey and a Report of Compliance has been  $\,2\,$ 10' TO THE TRUNK.
3.NO CONSTRUCTION MATERIALS, FILL,
TOPSOIL, SOIL, ETC. SHALL BE STORED
INSIDE THIS ORANGE CONSTRUCTION FENCE.
EXISTING ELEVATIONS WITHIN 4.THE ORANGE
CONSTRUCTION FENCING AREA SHALL
REMAIN UNCHANGED AND SOIL SHALL BE possible. If not possible, stockpiles shall be covered with a minimum of 3 to 6 inches of Unrotted small—grain straw, at 2.0 to 2.5 tons per acre, is spread uniformly at 90 to 115 issued. Upon written request from the applicant, the District may issue a Report of Compliance with 4. In the event that testing indicates compaction in excess of the maximum thresholds indicated for the simplified testing methods (see details wood chips to minimize erosion of the stockpile. conditions on a lot-by-lot or section-by-section basis, provided that the project or portion thereof pounds per 1,000 square feet and anchored with a mulch anchoring tool, liquid mulch below), the contractor/owner shall have the option to perform either (1) compaction mitigation over the entire mitigation area denoted on the plan Silt fence shall be installed at the toe of slope to contain movement of the stockpiled is in satisfactory compliance with the sequence of development and temporary measures for soil binders, or netting tie down. Other suitable materials may be used if approved by the Soil material. Topsoil shall not be applied to the stockpiles to prevent topsoil contamination with (excluding exempt areas), or (2) perform additional, more detailed testing to establish the limits of excessive compaction whereupon only the excessively erosion and sediment control have been implemented, including provisions for stabilization and site Conservation District. The approved rates above have been met when the mulch covers the EFT UNDISTURBED. (TO BE USED FOR PECIMEN TREES IF IN THE VICINITY OF hiah acid producina soil. compacted areas would require compaction mitigation. Additional detailed testing shall be performed by a trained, licensed professional. ground completely upon visual inspection, i.e. the soil cannot be seen below the mulch. Any disturbed areas that will be left exposed more than sixty (60) days, and not subject to High acid producing soils with a pH of 4 or less, or containing iron sulfide, (including Synthetic or organic soil stabilizers may be used under suitable conditions and in quantities Compaction Testing Methods construction traffic, will immediately receive a temporary seeding. If the season prevents the borrow from cuts) shall be ultimately placed or buried with limestone applied at the rate of as recommended by the manufacturer. Soil Compaction Testing Requirements establishment of temporary cover, the disturbed greas will be mulched with straw, or equivalent 6 tons per acre (or 275 pounds per 1,000 square feet of surface area) and covered with a D. Wood-fiber or paper-fiber mulch at the rate of 1,500 pounds per acre (or according to the material, at a rate of 2 to 2 ½ tons per acre, according to the Standard for Stabilization with Mulch minimum of 12 inches of settled soil with a pH of 5 or more except as follows: manufacturer's requirements) may be applied by a hydroseeder. 1. Subgrade soils prior to the application of topsoil (see permanent seeding and stabilization notes for topsoil requirements) shall be free of excessive Areas where trees or shrubs are to be planted shall be covered with a Mulch netting, such as paper jute, excelsior, cotton, or plastic, may be used. Immediately following initial disturbance or rough grading, all critical areas subject to erosion (i.e. soil compaction to a depth of 6.0 inches to enhance the establishment of permanent vegetative cover. minimum of 24 inches of soil with a pH or 5 or more. STEEL POST 2' MIN BELOW GRADE Woodchips applied uniformly to a minimum depth of 2 inches may be used. Woodchips will stockpiles, steep slopes and roadway embankments) will receive temporary seeding in combination with Disposal areas shall not be located within 24 inches of any surface of a Areas of the site which are subject to compaction testing and/or mitigation are graphically denoted on the certified soil erosion control plan. not be used on areas where flowing water could wash them into an inlet and plug it. STEEL POST straw mulch or a suitable equivalent, and a mulch anchor, in accordance with State Standards. slope or bank, such as berms, stream banks, ditches and others to prevent potential lateral Compaction testing locations are denoted on the plan. A copy of the plan or portion of the plan shall be used to mark locations of tests, and G. Gravel, crushed stone, or slag at the rate of 9 cubic yards per 1,000 sq. ft. applied A sub-base course will be applied immediately following rough grading and installation of attached to the compaction remediation form, available from the local soil conservation district. This form must be filled out and submitted prior to leachina damaaes. uniformly to a minimum depth of 3 inches may be used. Size 2 or 3 (ASTM C-33) is improvements to stabilize streets, roads, driveways, and parking areas. In areas where no utilities are 6. Equipment used for movement of high acid producing soils should be cleaned at the receiving a certificate of compliance from the district. recommended present, the sub-base shall be installed within fifteen (15) days of the preliminary grading. end of each day to prevent spreading of high acid soil materials to other parts of the site, 4. In the event that testing indicates compaction in excess of the maximum thresholds indicated for the simplified testing methods (see details Mulch Anchoring — should be accomplished immediately after placement of hay or straw The Standard for Stabilized Construction Access requires the installation of a pad of clean crushed into streams or stormwater conveyances and to protect machinery from accelerated rusting. below), the contractor/owner shall have the option to perform either (1) compaction mitigation over the entire mitigation area denoted on the plan mulch to minimize loss by wind or water. This may be done by one of the following stone at points where traffic will be accessing the construction site. After interior roadways are 7. Non vegetative erosion control practices (stone tracking pads, strategically placed (excluding exempt areas), or (2) perform additional, more detailed testing to establish the limits of excessive compaction whereupon only the excessively methods, depending upon the size of the area and steepness of slopes. paved, individual lots require a stabilized construction access consisting of one inch to two inch limestone check dam, silt fence, wood chips) should be installed to limit the movement of Peg and Twine - Drive 8 to 10 inch wooden pegs to within 2 to 3 inches of the soil compacted areas would require compaction mitigation. Additional detailed testing shall be performed by a trained, licensed professional. — 2") stone for a minimum length of ten feet (10') equal to the lot entrance  $\;\;$  width. All other high acid producing soils from, around or off the site. access points shall be blocked off. surface every 4 feet in all directions. Stakes may be driven before or after applying mulch. Following burial or removal of high acid producing soil, topsoiling and seeding of the Secure mulch to soil surface by stretching twine between pegs in a criss—cross and a Compaction Testing Methods All soil washed, dropped, spilled, or tracked outside the limit of disturbance or onto public site, (see Temporary Vegetative Cover for Soil Stabilization, pg. 7—1, Permanent Vegetative right-of-ways will be removed immediately. square pattern. Secure twine around each peg with two or more round turns. Mulch Nettings — Staple paper, cotton, or plastic nettings over mulch. Use degradable Permanent vegetation is to be seeded or sodded on all exposed areas within ten (10) days after final Cover for Soil Stabilization , pg. 4—1 and Topsoiling, pg. 8—1) monitoring should continue A. Probing Wire Test (see detail) grading. At the time that site preparation for permanent vegetative stabilization is going to be accomplished, netting in areas to be mowed. Netting is usually available in rolls 4 feet wide and up to for approximately 6 to 12 months to assure there is adequate stabilization and that no B. Hand-held Penetrometer Test (see detail) FULL WIDTH OF CARTWAY
AS SHOWN ON PLANS high acid soil problems emerge. If problems still exist the affected area must be treated as C .Tube Bulk Density Test (licensed professional engineer required any soil that will not provide a suitable environment to support adequate vegetative ground cover C. Crimper Mulch Anchoring Coulter Tool - A tractor-drawn implement especially designed to ndicated above to correct the problem. D. Nuclear Density Test (licensed professional engineer required) shall be removed or treated in such a way that it will permanently adjust the soil conditions and punch and anchor mulch into the soil surface. This practice affords maximum erosion Monitoring of areas where high acid producing soil has been placed or buried should be render it suitable for vegetative ground cover. If the removal or treatment of the soil will not provide control, but its use is limited to those slopes upon which the tractor can operate safely. performed for at least 2 years or longer if problems occur, to assure there is no migration Note: Additional testing methods which conform to ASTM standards and specifications, and which produce a dry weight, soil bulk density measurement suitable conditions, non-vegetative means of permanent around stabilization will have to be employed. Soil penetration should be about 3 to 4 inches. On sloping land, the operation should be of potential acid leachate. may be allowed subject to District approval. In accordance with the Standard for Management of High Acid Producing Soils, any soil having a pH on the contour. of 4 or less or containing iron sulfides shall be ultimately placed or buried with limestone applied at METHODS AND MATERIALS FOR TOPSOILING Liquid Mulch-Binders Soil compaction testing is not required if/when subsoil compaction remediation (scarification/tillage (6" minimum depth) the rate of 10 tons/acre, (or 450 lbs/1,000 sq ft of surface area) and covered with a minimum of . Applications should be heavier at edges where wind catches the mulch, in valleys, and 12" of settled soil with a pH of 5 or more, or 24" where trees or shrubs are to be planted. or similar) is proposed as part of the sequence of construction. 6" OF STONE (SEE NOTE 2) at crests of banks. Remainder of area should be uniform in appearance. Conduit Outlet Protection must be installed at all required outfalls prior to the drainage system . Use one of the following: - PROVIDE APPROPRIAT TRANSITION BETWEEN STAB. CONST. ENT. AND R.O.W. becoming operational. Procedures for Soil Compaction Mitigation A. Topsoil should be friable1, loamy2, free of debris, objectionable weeds and stones, and a. Organic and Vegetable Based Binders — Naturally occurring, powder based, hydrophilic PROFILE Unfiltered dewatering is not permitted. Necessary precautions must be taken during all dewatering contain no toxic substance or adverse chemical or physical condition that may be harmful materials that mixed with water formulates a gel and when applied to mulch under operations to minimize sediment transfer. Any dewatering methods used must be in accordance with to plant growth. Soluble salts should not be excessive (conductivity less than 0.5 millimhos Procedures shall be used to mitigate excessive soil compaction prior to placement of topsoil and establishment of permanent vegetative cover. satisfactory curing conditions will form membrane networks of insoluble polymers. The the Standard for Dewatering. vegetable ael shall be physiologically harmless and not result in a phyto-toxic effect or per centimeter. More than Should the control of dust at the site be necessary, the site will be sprinkled until the surface is Restoration of compacted soils shall be through deep scarification/tillage (6" minimum depth) where there is no danger to underground utilities (cables, impede arouth of turfarass. Vegetable based gels shall be applied at rates and weather 0.5 millimhos may desiccate seedlings and adversely impact growth). Imported topsoil shall 1. PLACE STABILIZED CONSTRUCTION ENTRANCE AT LOCATION(S) AS SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN. wet, temporary vegetative cover shall be established or mulch shall be applied as required by the have a minimum organic matter content of 2.75 percent. Organic matter content may be irrigation systems, etc.). In the alternative, another method as specified by a New Jersey Licensed Professional Engineer maybe substituted subject to conditions recommended by the manufacturer. Standard for Dust Control. 2. STONE SIZE SHALL BE ASTH C-33, SIZE NO. 2 OR 3 CRUSHED District Approval. Stockpile and staging locations established in the field shall be placed within the limit of disturbance b. Synthetic Binders — High polymer synthetic emulsion, miscible with water when diluted raised by additives. according to the certified plan. Staging and stockpiles not located within the limit of disturbance will and following application to mulch, drying and curing shall no longer be soluble or B. Topsoil substitute is a soil material which may have been amended with sand, silt, clay 3. THE THICKNESS OF THE STAB. CONST. ENT. SHALL NOT BE LESS require certification of a revised Soil Erosion and Sediment Control Plan. Certification of a new Soil organic matter, fertilizer or lime and has the appearance of topsoil. Topsoil substitutes may A. Probing Wire Test (see detail) dispersible in water. It shall be applied at rates and weather conditions recommended 4. THE WIDTH AT THE EXISTING PAVEMENT SHALL NOT BE LESS THAN THE FULL WIDTH OF POINTS OF INGRESS AND EGRESS. Erosion and Sediment Control Plan may be required for these activities if an area greater than 5,000 by the manufacturer and remain tacky until germination of grass. be utilized on sites with insufficient topsoil for establishing permanent vegetation. All topsoil B. Hand-held Penetrometer Test (see detail) square feet is disturbed. substitute materials shall meet the requirements of topsoil noted above. Soil tests shall be STANDARDS FOR DUST CONTROL C .Tube Bulk Density Test (licensed professional engineer required 5. THE STAB. CONST. ENT. SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO THE ROW PAYEMENT. THIS REQUIRES PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND, REPAIR AND/OR CLEAN OUT OF ANY MEASURE USED TO TRAP All soil stockpiles are to be temporarily stabilized in accordance with Soil Erosion and Sediment performed to determine the components of sand, silt, clay, organic matter, soluble salts and D. Nuclear Density Test (licensed professional engineer required) Control note #6. 1. To be utilized on exposed soil surfaces to prevent blowing and movement of The property owner shall be responsible for any erosion or sedimentation that may occur below Stripping and Stockpiling dust to minimize on and off site damage and improve traffic safety. Note: Additional testing methods which conform to ASTM standards and specifications, and which produce a dry weight, soil bulk density measurement stormwater outfalls or offsite as a result of construction of the project. A. Field exploration should be made to determine whether quantity and or quality of 2. The following methods should be considered to control dust: may be allowed subject to District approval. 6. ALL SEDIEMNT SPILLED , DROPPED, WASHED, OR TRACKED ONTO THE PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY. TEMPORARY STABILIZATION SPECIFICATIONS surface soil justifies stripping. a. Mulches — see the standard for stabilization with mulch. 7. WHERE TRACKING OF SOIL ONTO ROADWAYS IS A CONTINUAL OCCURANCE. ALL CONTRACTORS, BOTH SITE AND DWELLING CONTRACTORS SHALL BE REQUIRED TO BROOMSWEEP THE ROADWAY AT TWO-HOUR INTERVALS MINIMUM AND PRIOR TO LEAVING THE CONSTRUCTION SITE AT THE DAY END. Stripping shall be confined to the immediate construction area. o. Veaetative cover — see the standard for temporary vegetative cover and Soil compaction testing is not required if/when subsoil compaction remediation (scarification/tillage (6" minimum depth) Site Preparation Where feasible, lime may be applied before stripping at a rate determined by soil tests permanent cover. Grade as needed and feasible to permit the use of conventional equipment for seedbed or similar) is proposed as part of the sequence of construction. to bring the soil pH to approximately 6.5. preparation, seeding, mulch application, and mulch anchoring. All grading should be done in c. Spay on adhesives — for use on mineral soils only. Not to be used on A 4-6 inch stripping depth is common, but may vary depending on the particular soil. muck soils. Traffic must be kept off these areas. Procedures for Soil Compaction Mitigation accordance with Standards for Land Grading, pg. 19—1. Stockpiles of topsoil should be situated so as not to obstruct natural drainage water type of apply Install needed erosion control practices or facilities such as diversions, grade stabilization STABILIZED CONSTRUCTION ENTRANCE or cause off—site environmental damage. dilution nozzle gallons/acre through 42. Procedures shall be used to mitigate excessive soil compaction prior to placement of topsoil and establishment of permanent vegetative cover. F. Stockpiles should be vegetated in accordance with standards previously described herein; Immediately prior to seeding, the surface should be scarified 6" to 12" where there has been see standards for Permanent (pg. 4-1) or Temporary (pg.7-1) Vegetative Cover for Soil 12.5:1 Latex emulsion fine spray soil compaction. This practice is permissible only where there is no danger to Restoration of compacted soils shall be through deep scarification/tillage (6" minimum depth) where there is no danger to underground utilities (cables, Stabilization. Weeds should not be allowed to grow on stockpiles. Resin in water 4:1 fine spray underground utilities (cables, irrigation systems, etc.). irrigation systems, etc.). In the alternative, another method as specified by a New Jersey Licensed Professional Engineer maybe substituted subject to Seedbed Preparation d. Tillage — this is a temporary emergency measure to roughen the surface Apply ground limestone and fertilizer according to soil test recommendations such as offered by A. Grade at the onset of the optimal seeding period so as to minimize the duration and and bring clods to the surface. This method should be used before soil starts Rutgers Co-operative Extension. Soil sample mailers are available from the local Rutgers area of exposure of disturbed soil to erosion. Immediately proceed to establish vegetative blowina. Begin plowing on windward side of site. Chisel type plows with 12" spacing Cooperative Extension offices. Fertilizer shall be applied at the rate of 500 pounds per acre or 11 cover in accordance with the specified seed mixture. Time is of the essence and spring toothed harrows may produce the desired effect. pounds per 1,000 square feet of 10-20-10 or equivalent with 50% water insoluble nitrogen unless B. Grade as needed and feasible to permit the use of conventional equipment for seedbed e. Sprinkling — the site is sprinkled with water until damp as necessary to soil test indicates otherwise. Apply limestone at the rate determined via soil testing. Calcium preparation, seeding, mulch application and anchoring, and maintenance. carbonate is the equivalent and standard for measuring the ability of liming materials to neutralize soil See the Standard for Land Grading, pg. 19-1. f. Barriers — solid board fences, snow fences, burlap fences, crate walls, hay acidity and supply calcium and magnesium to grasses and legumes. As guidance for ideal conditions, subsoil should be tested for lime requirement. bales, and similar materials can be used to control air currents & soil blowing. Work lime and fertilizer into the soil as nearly as practical to a depth of 4 inches with a disc, Limestone, if needed, should be applied to bring soil to a pH of approximately 6.5 and a. Calcium Chloride — shall be in the form of loose dry granules or flakes springtooth harrow, or other suitable equipment. The final harrowing or disking operation should incorporated into the soil as nearly as practical to a depth of 4 inches. fine enough to feed through commonly used spreaders at a rate that will keep be on the general contour. Continue tillage until a reasonable uniform seedbed is prepared. D. Prior to topsoiling, the subsoil shall be in compliance with the Standard for Land surfaces moist but not cause pollution or plant damage. If used on steeper Inspect seedbed just before seeding. If traffic has left the soil compacted, the area must be retilled in slopes, then used other practices to prevent washing into streams or accordance with the above E. Employ needed erosion control practices such as diversions, grade stabilization accumulation around plants. Soils high in sulfides or having a pH of 4 or less refer to Standard for Management of High Acid structures, channel h. Stone — Cover surface with crushed stone or loose gravel. Producing Soils, pg. 1-1. stabilization measures, sedimentation basins, and waterways. See Standards 11 through 42. TOPSOIL STOCKPILE PROTECTION Liming Rates shall be established via soil testing. A. Topsoil should be handled only when it is dry enough to work without damaging soil Apply seed mixtures as follows: 1. Construct temporary diversion berm and/or hay bale barriers around structure; i.e., less than field capacity (see glossary). ZONE 6b; stockpile area as required. Apply limestone ( NOTE: Lime stone rate to be determined by the in place is required. Alternative depths may be considered where special regulatory Perennial ryegrass at 100 pounds per acre or 1 pound per 1,000 square feet, March 1 thru soiltesting in the field) and/or industry design standards are appropriate such as on golf courses, sports fields, May 15 and August 15 thru October 1, to depth of 0.5 inches, OR; Apply fertilizer (10-20-10) at a rate of 11 lbs/1000 SF. landfill capping, etc.. Soils with a pH of 4.0 or less or containing iron sulfide shall be Spring oats at 86 pounds per acre or 2 pound per 1,000 square feet, March 1 thru May 15 Apply Perennial Ryegrass at a rate of 1 lb/1000 SF. covered with a minimum depth of 12 inches of soil having a pH of 5.0 or more, in and August 15 thru October 1, to a depth of 1 inch, OR; 4. Mulch with unrotted salt hay or small grain straw immediately after accordance with the Standard for Management of High Acid Producing Soil (pg. 1-1). Winter barley at 96 pounds per acre or 2.2 pound per 1,000 square feet, August 15 thru seeding. Apply at a rate of 90 lbs/1000 SF. Pursuant to the requirements in Section 7 of the Standard for Permanent Vegetative October 1, to a depth of 1 inch, OR; Stabilization, the contractor is responsible to ensure that permanent vegetative cover Annual ryegrass at 100 pounds per acre or 1 pound per 1,000 square feet, March 15 PROPOSED SEQUENCE OF DEVELOPMENT becomes established on at least 80% of the soils to be stabilized with vegetation. Failure to thru June 1 and August 1 thru September 15, to a depth of .5 inches, OR; achieve the minimum coverage may require additional work to be performed by the Winter cereal rye at 112 pounds per acre or 2.8 pound per 1,000 square feet, August 1 GRATE ELEV. = 95.85 contractor to include some or all of the following: supplemental seeding, re—application of 1. Provide tree protection fencing then perform site clearing operation. (5 day) thru November 15, to a depth of 1 inch, OR; 2. Install temporary gravel pads at all construction entrances, as shown on the Warm Season Mix lime and fertilizers, and/or the addition of organic matter (i.e. compost) as a top dressing. - GRATE (CAMPBELL CASTING TYPE 'E') STOCKPILE TOPSOIL AND STABILIZE TO DIVERT UPLAND SURFACE WATER FROM SITE. Such additional measures shall be based on soil tests such as those offered by Rutgers Pearl millet at 20 pounds per acre or 0.5 pound per 1,000 square feet, May 15 thru August 5. Install dug—in and staked hay bales or sediment barrier fencing as shown on the Cooperative Extension Service or other approved laboratory facilities qualified to test soil 15, to a depth of 1 inch, OR; -BASIN OR APPROVED PREFABRICATED samples for agronomic properties.

DRAWSTRING RUNNING THROUGH FABRIC
ALONG TOP OF FENCE plans. (2 day) SILT FENCE AND/OR STAKED HAY BALES Millet (German or Hungarian) at 30 pounds per acre or 0.7 pound per 1,000 square feet, 4. Grade lot. (1 week) May 15 thru August 15, to a depth of 1 inch, OR; 5" ORIFICE ELEV. = 94.40 6. Install sanitary sewer, waterlines and any other utilities. (3 weeks) Mulch with unrotted salt hay or small grain straw immediately after seeding at a rate of 1.5 to 2 tons 7. Construct, stabilize and install Stormwater structures. (2 weeks) 3" ORIFICE ELEV. = 93.90 per acre or 70 to 90 pounds per 1,000 square feet and secure with peg and twine, mulch netting, 15" HDPE INV=90.30 8. Begin building construction. ( 6 months) 9. Final grade driveway and other undisturbed areas. (5 days) Where the season and other conditions may not be suitable for growing an erosion resistant cover or 10. Pave driveway. (2 day) where stabilization is needed for a short period until more suitable protection can be applied, 11 Perform soil compaction testing. (2 day) stabilization with mulch only may be utilized. APPLY STONE SUB-BASE IMMEDIATELY AFTER
EXCAVATION TO ENTRAP 12. Apply permanent seeding as per standards. (5 day) STRUCTURE 13. Finish building construction. (24 weeks) PERMANENT STABILIZATION SPECIFICATIONS 14. Install landscaping. (10 days) SLAB w/ 6"x6" WIRE MESH . <u>Site Preparation</u> 15. Remove silt/tree protection fence and inlet filters once permanent seeding is 1-1/2" FENCE POST (SPACING A. Grade as needed and feasible to permit the use of conventional equipment for seedbed 8'-0" C. TO C.) established. (5 day) STABILIZED CONSTRUCTION ENTRANCE preparation, seeding, mulch application, and mulch anchoring. All grading should be done in FABRIC SECURED TO POST WITH METAL (SEE DETAIL ABOVE) accordance with Standard for Land Grading. FASTENERS & REINFORCEMENT BETWEEN OUTLET STRUCTURE #1 DETAIL B. Immediately prior to seeding and topsoil application, the subsoil shall be evaluated for compaction in accordance with the Standard for Land Grading . FABRIC (3'-0" WIDE) C. Topsoil should be handled only when it is dry enough to work without damaging the soil SILT ACCUMULATION 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. GRATE ELEV. = 94.85 D. Install needed erosion control practices or facilities such as diversions, grade-stabilization - GRATE (CAMPBELL CASTING TYPE 'E') structures, channel stabilization measures, sediment basins, and waterways. 2. <u>Seedbed Preparation</u> -BASIN OR APPROVED PREFABRICATED A. Uniformly apply ground limestone and fertilizer to topsoil which has been spread and 6" ORIFICE ELEV. = 94.00 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 INDIVIDUAL LOT DEVELOPMENT DETAIL (http://njaes.rutgers.edu/county/). Fertilizer shall be applied at the rate of 500 pounds per acre or 11 3" ORIFICE ELEV. = 93.50 15" HDPE INV=90.31 pounds per 1,000 square feet of 10-10-10 or equivalent with 50% water insoluble nitrogen unless a soil DIG 6" DEEP TRENCH, BURY 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 3'-6"x4' SQUARE CONC. BLOCK application of the same fertilizer within 3 to 5 weeks after seeding. SILT FENCE DETAIL N.T.S. Work lime and fertilizer into the topsoil as nearly as practical to a depth of 4 inches with a disc, STRUCTURE 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. THICK, NJDOT CLASS "B" 4500 psi CON SLAB w/ 6"x6" WIRE MESH 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 5 or more before initiating seedbed reparation. See Standard for Management of High Acid—Producing Soils for specific requirements OUTLET STRUCTURE #2 DETAIL 3. Apply seed mixtures as follows: ZONE 6b, RESIDENTIAL AND COMMERCIAL AREAS; Perennial ryegrass at 45 pounds per acre or 1.0 pound per 1,000 square feet, March 1 thru October 15, to a depth of 0.25 to 0.5 inches, AND SOIL EROSION AND SEDIMENT CONTROL NOTES Hard fescue at 175 pounds per acre or 4.0 pound per 1,000 square feet, March 1 thru 06-06-22 October 15, to a depth of 0.25 to 0.5 inches, AND; "TRIPLET SQUARE LLC" Kentucky bluegrass (blend) at 45 pounds per acre or 1.0 pound per 1,000 square feet, March 1 thru October 15, to a depth of 0.25 to 0.5 inch BLOCK 27, LOT 34.011 -GRAVEL FILTER -\_\_w/ WEEP HOLES ZONE 6b, DETENTION BASINS, SWALES, DITCHES, POND AND CHANNEL BANKS, BERMS; AS SHOWN SITUATED ON: Strong creeping red fescue at 130 pounds per acre or 3 pound per 1,000 square feet, March 1 thru October 15, to a depth of 0.25 to 0.5 inches, AND; LOCATED ON 405 MAIN STREET AS SHOWN ON TAX <u>05-10-23</u> Kentucky bluegrass at 50 pounds per acre or 1 pound per 1,000 square feet, March 1 MAP OF TOWNSHIP OF MANALAPAN SHEET 20. thru October 15, to a depth of 0.25 to 0.5 inch, AND; ∠INLET GRATE Perennial ryegrass at 20 pounds per acre or 0.5 pound per 1,000 square feet, March 1 MONMOUTH COUNTY, NJ <u>CNTY./DEP REV</u> <u>03-27-23</u> d500 thru October 15, to a depth of 0.25 to 0.5 inches, OR CNTY. REV CONCEPT ENGINEERING CONSULTANTS, P.A. <u>02-12-23</u> Redtop at 10 pounds per acre or 0.25 pound per 1,000 square feet, March 1 thru October <u>11-28-22</u> 11-10-22 NJDEP REV. 15, to a depth of 0.25 to 0.5 inch, PLUS; 123 HIGHWAY #33 EAST, SUITE #204, MANALAPAN, NJ.07726 White clover at 5 pounds per acre or 0.1 pound per 1,000 square feet, March 1 thru A. FRAME TO BE CONSTRUCTED OF 2"x4" LUMBER, w/ (12) 3/4" WEEP HOLES DRILLED 1-1/2" FROM BOTTOM EDGE, SPREAD EVENLY THROUGHOUT THE PERIMETER OF THE FRAME. FRAME TO BE SAME DIMENSIONS AS THE GRATE OF THE INLET.

B. STONE FILTER TO BE 1-1/2" TO 2-1/2" CLEAN STONE AND SHALL TAPER DOWN FROM THE TOP OF THE FRAME TO A POINT 3 FEET FROM THE FRAME.

C. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS FUNCTION, THE STONE MUST BE PULLED AWAY FROM THE CLEANER AND REPORT AND REPORT AND REPORT. 2750 OR 732-792-2740 October 15, to a depth of 0.25 to 0.5 inch. 4. Mulch with unrotted salt hay or small grain straw immediately after seeding at a rate of 1.5 to 2 tons IEERS – LAND SURVEYORS FIELD BK. N/A RIP-RAP CROSS SECTION per acre or 70 to 90 pounds per 1,000 square feet and secure with peg and twine, mulch netting, PAGE THE INLET, CLEANED AND REPLACED.
THIS METHOD OF INLET PROTECTION IS APPLICABLE AT INLETS WHERE PONDING IN FRONT OF THE STRUCTURE IS NOT LIKELY TO CAUSE INCONVENIENCE OR crimpers or liquid mulch-binders. DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS. THIS METHOD IS DESIGNED TO FILTER RUNOFF FROM THE ONE YEAR STORM EVENT, WHILE ALLOWING LARGER STORMS TO PASS DIRECTLY INTO THE INLET. . Where the season and other conditions may not be suitable for growing an erosion resistant cover or TEMPORARY TOPSOIL STOCKPILE DETAIL where stabilization is needed for a short period until more suitable protection can be applied, stabilization RIP-RAP DETAIL with mulch only may be utilized. GRAVEL INLET SEDIMENT FILTER DETAIL RIPRAP DETAIL

N/A

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