

# AMENDED SITE PLAN FOR DIGGERLAND ADVENTURE PARK WAVE POOL, ACTIVITY POOL AND SLIDES

6

PLATE 26, BLOCK 2601, LOT 2 441 E. FRANKLIN AVENUE Township of Berlin, Camden County, New Jersey

# Property Owners Within 200':

Key Map scale: 1" = 1,000'

BLOCK 2501

Lot 51 Stephen W. & Cynthia E. Leesman 22 Gainsboro Drive West Berlin, NJ 08091

Lot 52 Thomas A. & Patricia P. Colucci

West Berlin, NJ 08091

Hov Bros Berlin LLC 900 Birchfield Drive

Mt. Laurel NJ 08054

1801 Federal Street

Camden, NJ 08105 171 Cooper Road

BLOCK 2601

Lot 3 C0001 & C0002

West Berlin, NJ 08091

West Berlin, NJ 08091

Noonan Industries LLC

444 Commerce Lane

Pinedge Associates PO Box 368

BLOCK 2602

Pinedge Associates PO Box 368

Pinedge Associates PO Box 368

West Berlin NJ 08091

West Berlin NJ 08091

200-230 Cooper Road

West Berlin NJ 08091

250-288 Pinedge Drive

Lot 2 ResinTech Realty Assoc, LLC

Fenton Investment Group, LLC

447 Commerce Lane - Unit A

Ryant T. Kates 447 Commerce Lane — Unit C

Bruno, Jos. Trusts Anthony & Filomena

447 Commerce Lane - Unit D

West Berlin, NJ 08091 447 Commerce Lane — Unit E

BLOCK 2502

BLOCK 2602

West Berlin NJ 08091 301-321 Pinedge Drive

Verizon - NJ - C/O Duff & Phelps

BLOCK 1101 Lot 17 ResinTech Realty Assoc, LLC 1801 Federal Street

BLOCK 1201 Dominick & Rose Dandrea 131 Piedmont Boulevard West Berlin, NJ 08091 431 Commerce Lane

Charles & Eileen Koff % Packaging P.O. Box 160

West Berlin, NJ 08091 435 Commerce Lane Lot 10 Compex Corp 439 Commerce Lane

Commerce Lane Realty, LLC 439 Commerce Lane West Berlin, NJ 08091 443 Commerce Lane BLOCK 2501

John J. Jr. & Patricia A. Lynch 38 Gainsboro Drive West Berlin, NJ 08091

Catherine Cappetta 36 Gainsboro Drive Ernest W. & Cynthia T. Martin

James & Michele A. Difillippo 32 Gainsboro Drive West Berlin, NJ 08091 Ira & Renee L. Levine 30 Gainsboro Drive West Berlin, NJ 08091

Stuart P. & Elaine Wachtel 28 Gainsboro Drive West Berlin, NJ 08091

Michael H. & Sandra Zeises 26 Gainsboro Drive West Berlin, NJ 08091

Lot 50 Paula H. Boyd 24 Gainsboro Drive West Berlin, NJ 08091

# BLOCK 1101 BLOCK 2601 (BLOCK 2602) P.I.Q. BLOCK 2601 LOT 1 ZONE C-2 LOT 4 P.I.Q. BLOCK 2601 LOT 2 ZONE C2-I

Gradina / Construction Notes

Proposed Spot Grade Elevation: Existina Contour Line: Proposed Contour Line: ----100 ----

2. Benchmark: Type 'B' Inlet Cooper Road (South Side) Top of Curb Piece 156.38

- 3. All materials and installation shall comply with the New Jersey State Highway Department Specifications, 2007 as amended.
- 4. Where subgrade conditions are wet, springy or of such nature that surfacing would be inadvisable without treating the subgrade, the Municipal Engineer shall have the right to request additional excavation and the installation of a suitable subbase such as dense graded aggregate or recycled concrete.
- 5. All proposed curbing within site shall be vertical curb, variable face around the site
- 6. The Contractor shall procure all required permits, licenses and inspections, pay all charges and fees and give notices necessary for all incidentals to the due and lawful prosecution of the project.
- 7. The location of all existing utility lines, mains, services, appurtenances must be verified by the contractor prior to the commencement of construction. The Contractor shall perform test pits in the presence of the Construction Enginee. The contractor shall relocate and/or relay electric, water and gas mains and services where necessary. The contractor shall be responsible for the repair of any damage caused by his operations. He shall notify the respective utility company for location markout prior to any excavation and the performance of the above mentioned test pits.
- 8. The Contractor is required to perform the proper notification of New Jersey One-Call Center (formerly the Garden State Underground Plant Location Service) prior to excavation for the purpose of identifying the location of underground facilities. This requirement is in accordance with the Underground Facilities Protection Act (P.L. 1994 c. 118). Any and all utilities not subscribing to the New Jersey One-Call Center shall be contacted individually. No work shall commence without proper notifications and verification of all markouts being performed.
- 9. No materials shall be placed or any disturbance permitted beyond the project property line or right-of-way without the written permission of the property
- 10. The Contractor shall be responsible for clearing, grading, restoring, paving, topsoiling, fertilizing and seeding the areas disturbed by his activities.
- 11. Inspections or failures to inspect any materials or workmanship by Municipal or County Officials shall in no way relieve the Contractor of his responsibilities to perform the work in accordance with applicable plans, specifications and laws.
- 12. Contractor shall be required to strip all topsoil from proposed disturbed areas prior to the start of site grading. Stockpiling topsoil shall be utilized for the landscaping and basin areas. All excess topsoil shall remain the property of
- 13. Stormwater runoff from all roof drains must be diverted or collected so that the stormwater will not discharge on to any parking or walkway pavement surface, in order to eliminate icing hazards.
- 14. The Contractor shall be responsible for the construction stakeout of this project.
- 15. Barricades, lighting devices and other traffic control devices shall be placed in accordance with and shall conform to section 110, New Jersey Department of Transportation Traffic Control Standard Specifications for Road and Bridge Construction as amended and supplemented to date, part 6 of the M.U.T.C.D. and Work Zone Traffic Control (US Department of Transportation).
- 16. Traffic/ pedestrian control devices and equipment shall be placed in accordance with all applicable federal, state, county and municipal regulations.
- 17. A trash dumpster shall be provided on site during the entire period of construction.
- 18. All curb removal shall be taken from the nearest joint as necessary to install proposed improvements.
- 19. All storm structures shall be constructed in accordance with N.J.D.O.T. Standard
- 20. The design calculations for the storm sewer and sanitary sewer main construction represents structure-to-structure distances and slopes. Pipe lengths noted in the construction flags and notes represent approximate construction material auantities. Materials to be ordered and installed by the contractor.
- 21. The grading depicted on this plan are for general grading purposes only and are subject to change based on the final architectural plans. The developer will be responsible for having grading amended by an engineer, if necessary, to ensure substantial conformance with the approved grading plan.
- 22. At the time of construction, the excavation of the basin bottom and the infiltration greas should be witnessed by representatives of the planning board engineer's office to confirm that the soil is consistent with the design basis.

### General Construction Notes:

verification of all markouts being performed.

- 1. The Contractor shall procure all required permits, licenses and inspections. Contractor shall be responsible for all charges and fees as well as, give notices necessary for all incidentals for project.
- 3. All construction debris (asphalt, concrete, etc.) must be removed from the project site prior to the end of each day to eliminate any potential hazards.
- 4. All areas disturbed by the Contractor, shall be returned to its original condition or better, by the
- 5. The location of all existing utility lines, mains, services, appurtenances must be verified by the Contractor prior to the commencement of construction. The Contractor shall perform test pits in the presence of the construction engineer, the Contractor shall relocate and/or relay electric, water and gas mains and services where necessary. The Contractor shall be responsible for the repair of any damage caused by his operations. He shall notify the respective utility company for location markout
- prior to any excavation and the performance of the above mentioned test pits. 6. The Contractor is required to perform the proper notification of New Jersey One-Call Center (formerly the garden state underground plant location service) prior to excavation for the purpose of identifying the location of underground facilities. This requirement is in accordance with the underground facilities protection act (p.l. 1994 c. 118). Any and all utilities not subscribing to the new jersey one- call center shall be contacted individually. No work shall commence without proper notifications and
- 7. All utility Contractors shall procure all required permits, licenses and inspections, pay all charges and give notices necessary for all incidentals to the due and lawful prosecution of the project.
- 8. The Contractor shall be responsible for properly backfilling and compacting all trenches. No trenches shall be left open after construction hours for the day. All construction areas are to be kept in a condition that allows for safe movement of all vehicular and pedestrian traffic.
- 9. All areas adjacent to newly installed concrete curbing, sidewalk, etc. shall be backfilled to finished grade prior to the end of the day to eliminate any potential hazards.
- 10. All areas of disturbance shall be graded so as to eliminate any mounds and/or depressions prior to the end of each day to eliminate any potential hazards.
- 11. Barricades, lighting devices and other traffic control devices shall be placed in accordance with and shall conform to section 110, new jersey department of transportation traffic control standard specifications for road and bridge construction, part 6 of the m.u.t.c.d. and work zone traffic control (u.s. department of transportation).
- 12. All concrete curb and sidewalk designated for removal, shall be taken from the nearest joint, as necessary, to install proposed improvements.
- 13. Where no joints exist on concrete drives or sidewalk, the edge shall be sawcut along straight lines before excavation or paving.
- 14. Where the proposed paving meets the existing paving, the edge shall be cut vertically with a sharp tool, along straight lines. Once completed, the joint shall be properly sealed.
- 15. The Contractor shall be responsible for the construction stakeout of the project.
- 16. Inspections or failures to inspect any materials or workmanship by municipal or county officials shall in no way relieve the Contractor of his responsibilities to perform the work in accordance with applicable plans, specifications and laws.
- 17. A trash dumpster shall be provided on site during entire period of construction.
- 18. Contractor shall be responsible to remove any & all items on-site (above and underground) or relocate any & all items on-site to allow for the construction of the proposed site improvements shown on these plans. Any omissions of existing items on this plan shall not relieve the Contractor from his responsibility to remove/ relocate said items. Contractor must field visit site to familiarize themselves with project and verify all demolitions responsibilities.
- 19. All improvements must comply and be constructed in accordance with all applicable codes of the municipality planning department, county planning department and all other applicable state, county and local agencies.
- 20. The owner, or his representative, is to designate an individual responsible for construction site safety during the course of site improvements pursuant to N.J.A.C. 5:23-2.21 (e) of the N.J. Uniform Construction Code and CFR 1926.32 (f) (OSHA Competent Person).
- 21. All concrete curb and sidewalk designated for removal, shall be taken from the nearest joint, as necessary, to install proposed improvements. All deteriorated, cracked, and/or misaligned concrete curb and/or sidewalk on both the site and within the municipal R.O.W. must be replaced by the Contractor to eliminate potential tripping hazards.
- 22. Although it is not required by any outside agency governing plan review, it is recommended that steel bollards filled with concrete be placed in front of all parking spaces that abut areas utilized

## **Utility Companies:**

Atlantic City Electric

295 N. Grove Street Berlin, NJ 08009 Contact Person - Mr Robert Walcott, Director - (856) 753-2825

10 Tansboro Road

Berlin, NJ 08009 Contact person: Mr. Douglas Webb - (856) 753-0984

Public Service Electric and Gas 80 Park Plaza Newark NJ 07102

Contact Number: 866-728-7920 South Jersey Gas

One South Jersey Plaza, Route 54 Folsom NJ 08037 Contact person: Mr. Scott Wagner - (856) 561-9000

Berlin Borough Water Department 59 S. White Horse Pike

Berlin, NJ 08009 Contact person: John Allsebrook, Operator - (856) 767-0056

Berlin Township Sewer Department 135 Route 73 South

Contact person: Mr. Charles J. Riebel Jr., Director — (856) 767—5052

Camden County Municipal Utility Authority 1645 Ferry Ave.

Camden, NJ 08104 Contact person: Mr. Scott Schreiber - (856) 583-1261

Comcast Cable Communications Inc. 1250 Haddonfield- Berlin Road

PO Box 5025 Cherry Hill, NJ 08034

Public Works- Berlin Township Public Works Department

135 Route 73 South

Contact person: Mr. Charles J. Riebel Jr., Director - (856) 767-5052

### Index Sheet

No.	Description
1.	Cover Sheet
2.	Site Plan
<i>3</i> .	Grading Plan
4.	Soil Erosion and Sediment Control Plan
<i>5.</i>	Details
6.	Details

General Notes:

1. OWNER/APPLICANT: Power Engines 1, LLC 100 Pinedge Drive West Berlin, NJ 08091

2. PROPERTY ADDRESS: 441 E. Franklin Avenue

West Berlin, NJ 08091 3. PARCEL: Plate 26 Block 2601, Lot 2

4. AREA: 7.05 Acres

5. ZONING: C2-I - Highway Commercial (No Residential Borders)

Diggerland Adventure Park and Water Park 2 Story Office 6. EXISTING USE:

7. PROPOSED IMPROVEMENT: Construction of a wave pool, below-grade wave mechanical room with storage above, an activity pool, slides, modifications

8. AREA & BULK REQUIREMENTS: REQUIRED C-2 **EXISTING** 307,241.88± S.F./ 20,000 S.F. 7.05± Acs. Minimum Lot Width 662.33" Minimum Lot Depth 449.09' N/A Minimum Front Yard Setback Minimum Side Yard Setback Minimum Rear Yard Setback Maximum Building Height 52.1' (SLIDE TOWER) Maximum Building Coverage

A. REQUESTING A VARIANCE FROM CHAPTER 340, ARTICLE X, SECTION 66 A. (6) TO ALLOW A MAXIMUM STRUCTURE HEIGHT OF 52.1 FEET FROM THE REQUIRED 50 FEET.

to the existing pump building and site amenities.

B. REQUESTING A WAIVER FROM SECTION 200-69.E(21) TO PERMIT L.E.D. LIGHT FIXTURES FROM THE REQUIRED HIGH PRESSURE SODIUM FIXTURES

C. ANY AND ALL OTHER VARIANCES OR WAIVERS DEEMED NECESSARY BY THE BOARD AND IT'S PROFESSIONALS.

10. BOUNDARY INFORMATION TAKEN FROM THE FOLLOWING:

REV. DATE:

A. OUTBOUND INFORMATION TAKEN FROM PLAN OF SURVEY PREPARED BY KEY ENGINEERS, INC., DATED JUNE 10. 2019. LAST REVISED MARCH 24, 2020.

<u>Signatures:</u> This plan is hereby approved by the Township of Berlin Planning Board:

PLANNING BOARD CHAIRMAN

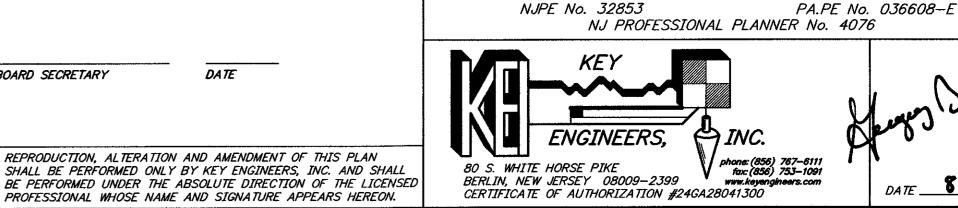
PLANNING BOARD ENGINEER

PLANNING BOARD SECRETARY

REPRODUCTION, ALTERATION AND AMENDMENT OF THIS PLAN

SHALL BE PERFORMED ONLY BY KEY ENGINEERS, INC. AND SHALL

PROFESSIONAL WHOSE NAME AND SIGNATURE APPEARS HEREON.



Cover Sheet

Diggerland Adventure Park

Plate 26, Block 2601, Lot 2

441 E. Franklin Avenue

Township of Berlin

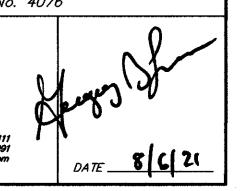
Camden County, New Jersey

GREGORY BLASE FUSCO

PROFESSIONAL ENGINEER

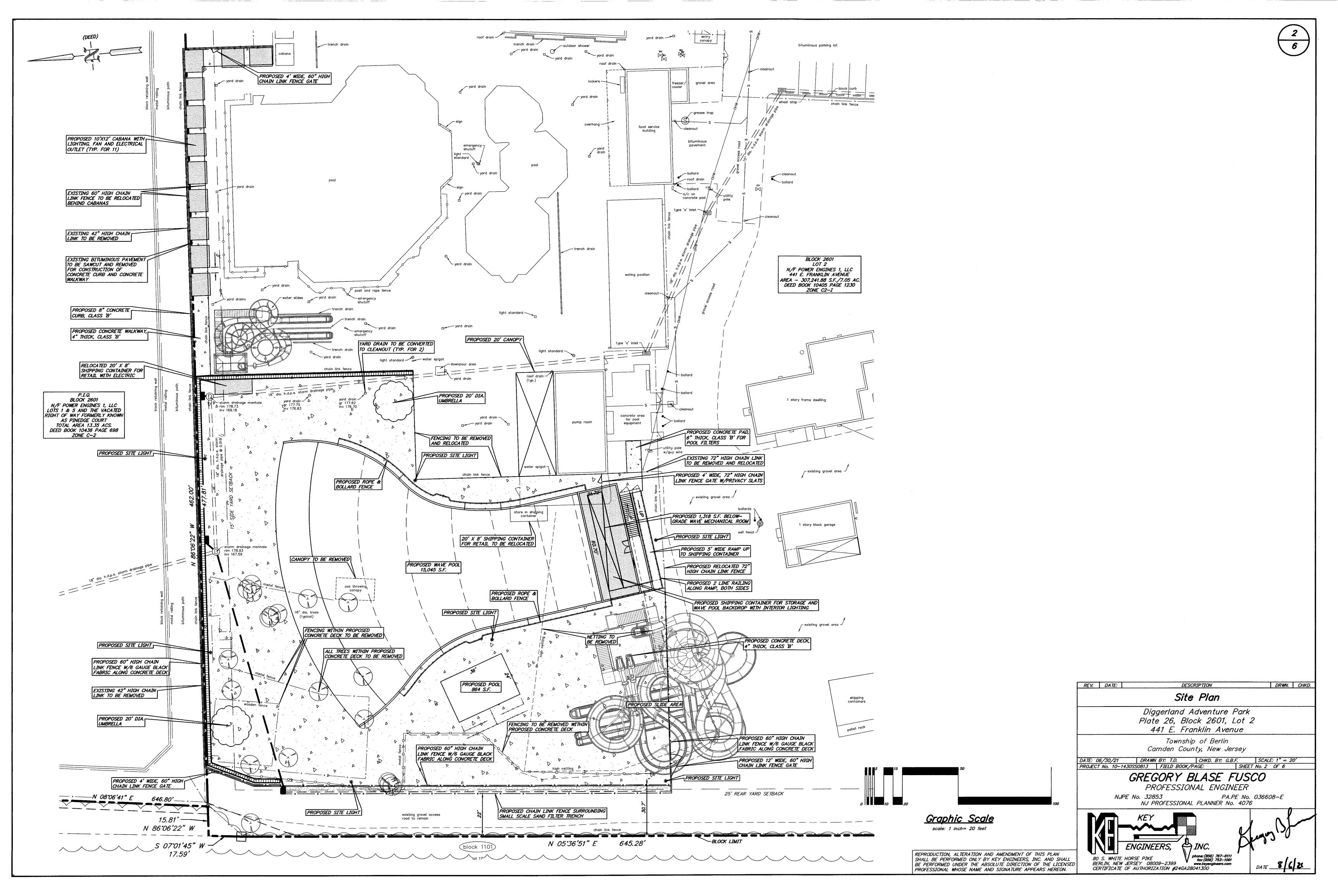
 DATE: 06/30/21
 DRAWN BY: T.D.
 CHKD. BY: G.B.F.
 SCALE: AS NOTED

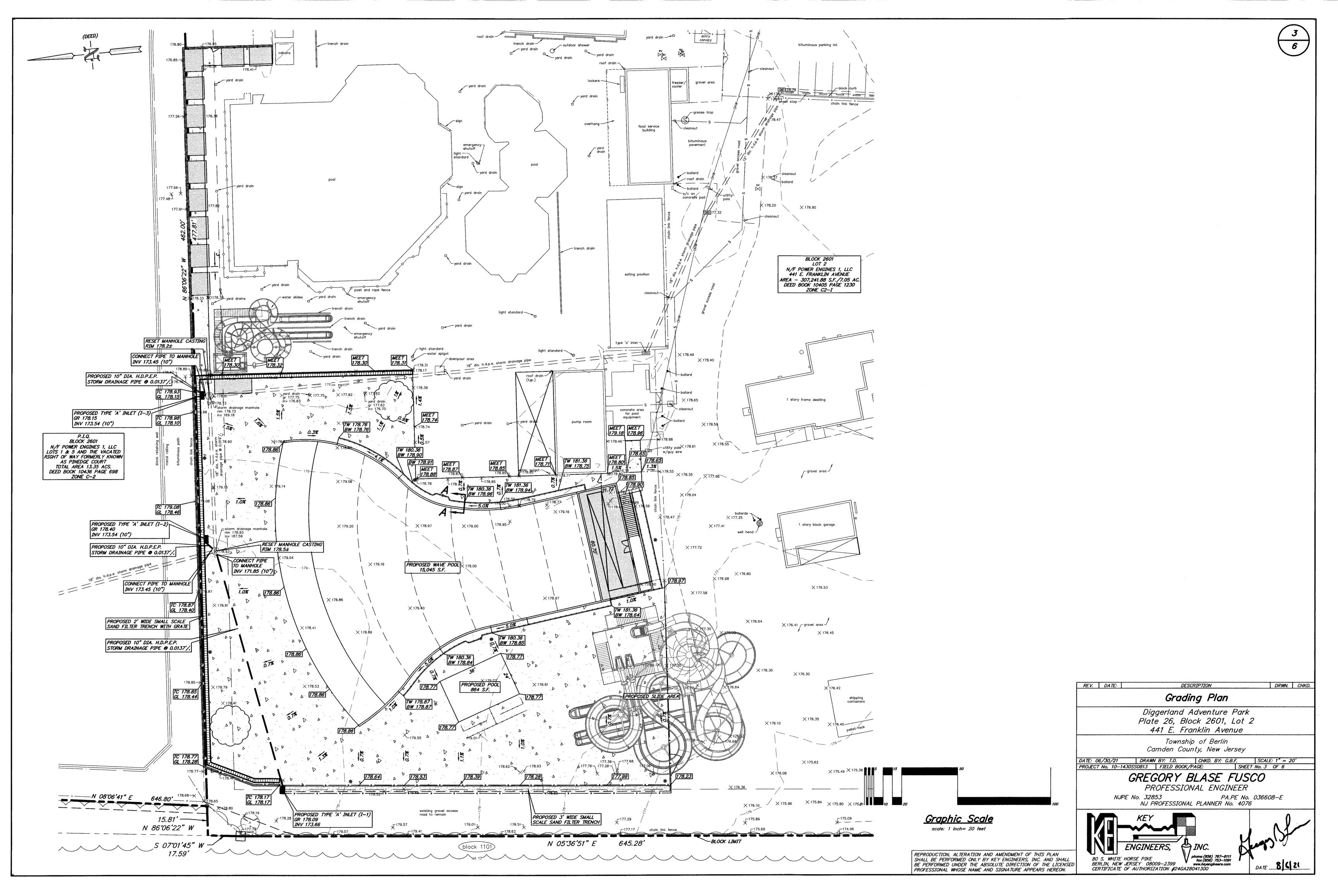
 PROJECT No. 10-1430SS0813
 FIELD BOOK/PAGE:
 SHEET No. 1 OF 6

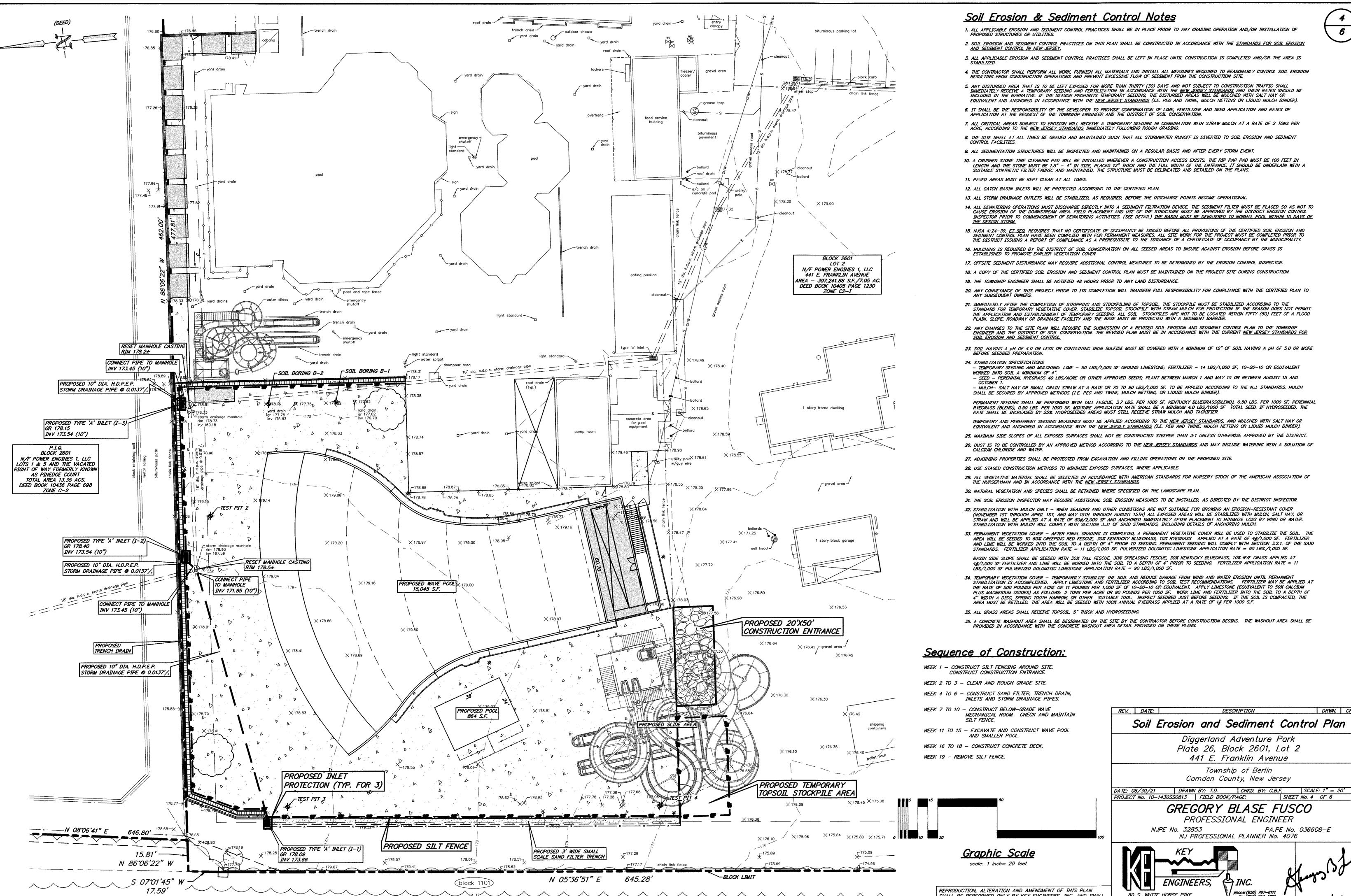


DRWN. CHKD.

Properties & Zoning Within 200' Map







- 2. SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION

- EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE <u>NEW JERSEY STANDARDS</u> (I.E. PEG AND TWINE, MULCH NETTING OR LIQUID MULCH BINDER).
- 7. ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH AT A RATE OF 2 TONS PER
- 10. A CRUSHED STONE TIRE CLEANING PAD WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS EXISTS. THE RIP RAP PAD MUST BE 100 FEET IN
- 14. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTRATION DEVICE. THE SEDIMENT FILTER MUST BE PLACED SO AS NOT TO CAUSE EROSION OF THE DOWNSTREAM AREA. FIELD PLACEMENT AND USE OF THE STRUCTURE MUST BE APPROVED BY THE DISTRICT EROSION CONTROL INSPECTOR PRIOR TO COMMENCEMENT OF DEWATERING ACTIVITIES. (SEE DETAIL) IHE BASIN MUST BE DEWATERED TO NORMAL POOL WITHIN 10 DAYS OF

- 21. IMMEDIATELY AFTER THE COMPLETION OF STRIPPING AND STOCKPILING OF TOPSOIL, THE STOCKPILE MUST BE STABILIZED ACCORDING TO THE STANDARD FOR TEMPORARY VEGETATIVE COVER. STABILIZE TOPSOIL STOCKPILE WITH STRAW MULCH FOR PROTECTION IF THE SEASON DOES NOT PERMIT
- 22. ANY CHANGES TO THE SITE PLAN WILL REQUIRE THE SUBMISSION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN TO THE TOWNSHIP ENGINEER AND THE DISTRICT OF SOIL CONSERVATION. THE REVISED PLAN MUST BE IN ACCORDANCE WITH THE CURRENT NEW JERSEY STANDARDS FOR
- 23. SOIL HAVING A PH OF 4.0 OR LESS OR CONTAINING IRON SULFIDE MUST BE COVERED WITH A MINIMUM OF 12" OF SOIL HAVING A PH OF 5.0 OR MORE
- TEMPORARY SEEDING AND MULCHING: LIME 90 LBS/1,000 SF GROUND LIMESTONE; FERTILIZER 14 LBS/1,000 SF; 10-20-10 OR EQUIVALENT
- SEED PERENNIAL RYEGRASS 40 LBS/ACRE OR OTHER APPROVED SEEDS; PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND
- MULCH- SALT HAY OR SMALL GRAIN STRAW AT A RATE OR 70 TO 90 LBS/1,000 SF. TO BE APPLIED ACCORDING TO THE N.J. STANDARDS. MULCH
- RYEGRASS (BLEND), 0.50 LBS. PER 1000 SF. MIXTURE APPLICATION RATE SHALL BE A MINIMUM 4.0 LBS/1000 SF TOTAL SEED. IF HYDROSEEDED, THE RATE SHALL BE INCREASED BY 25% HYDROSEEDED AREAS MUST STILL RECEIVE STRAW MULCH AND TACKIFIER.
- EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE <u>NEW JERSEY STANDARDS</u> (I.E. PEG AND TWINE, MULCH NETTING OR LIQUID MULCH BINDER).
- 26. DUST IS TO BE CONTROLLED BY AN APPROVED METHOD ACCORDING TO THE NEW JERSEY STANDARDS AND MAY INCLUDE WATERING WITH A SOLUTION OF

- 32. STABILIZATION WITH MULCH ONLY WHEN SEASONS AND OTHER CONDITIONS ARE NOT SUITABLE FOR GROWING AN EROSION-RESISTANT COVER (NOVEMBER 1ST THROUGH APRIL 1ST, AND MAY 15TH THROUGH AUGUST 15TH) ALL EXPOSED AREAS WILL BE STABILIZED WITH MULCH, SALT HAY, OR STRAW AND WILL BE APPLIED AT A RATE OF 80#/2,000 SF AND ANCHORED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER.
- AREA WILL BE SEEDED TO 60% CREEPING RED FESCUE, 30% KENTUCKY BLUEGRASS, 10% RYEGRASS APPLIED AT A RATE OF 4#/1,000 SF. FERTILIZER AND LIME WILL BE WORKED INTO THE SOIL TO A DEPTH OF 4" PRIOR TO SEEDING. PERMANENT SEEDING WILL COMPLY WITH SECTION 3.2.1. OF THE SAID STANDARDS. FERTILIZER APPLICATION RATE = 11 LBS/1,000 SF. PULVERIZED DOLOMITIC LIMESTONE APPLICATION RATE = 90 LBS./1,000 SF.
- BASIN SIDE SLOPE SHALL BE SEEDED WITH 30% TALL FESCUE, 30% SPREADING FESCUE, 30% KENTUCKY BLUEGRASS, 10% RYE GRASS APPLIED AT 4#/1,000 SF FERTILIZER AND LIME WILL BE WORKED INTO THE SOIL TO A DEPTH OF 4" PRIOR TO SEEDING. FERTILIZER APPLICATION RATE = 11
- THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SF OF 10-20-10 OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDES) AS FOLLOWS: 2 TONS PER ACRE OR 90 POUNDS PER 1000 SF. WORK LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF 4" WIDTH A DISC. SPRING TOOTH HARROW, OR OTHER SUITABLE TOOL. INSPECT SEEDBED JUST BEFORE SEEDING. IF THE SOIL IS COMPACTED, THE

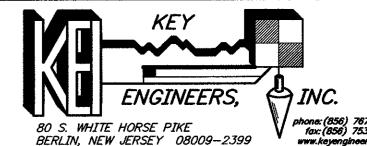
SHALL BE PERFORMED ONLY BY KEY ENGINEERS. INC. AND SHALL BE PERFORMED UNDER THE ABSOLUTE DIRECTION OF THE LICENSED PROFESSIONAL WHOSE NAME AND SIGNATURE APPEARS HEREON.

Soil Erosion and Sediment Control Plan

441 E. Franklin Avenue

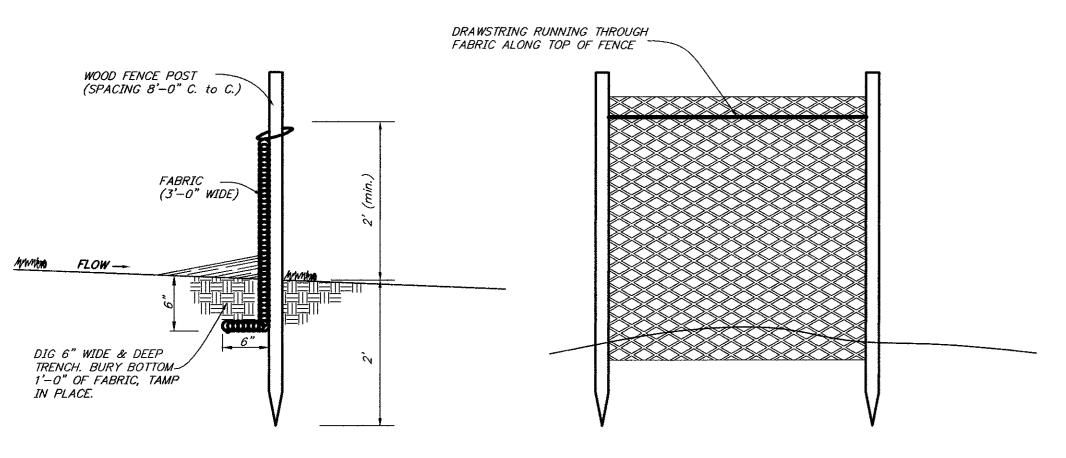
GREGORY BLASE FUSCO

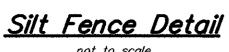
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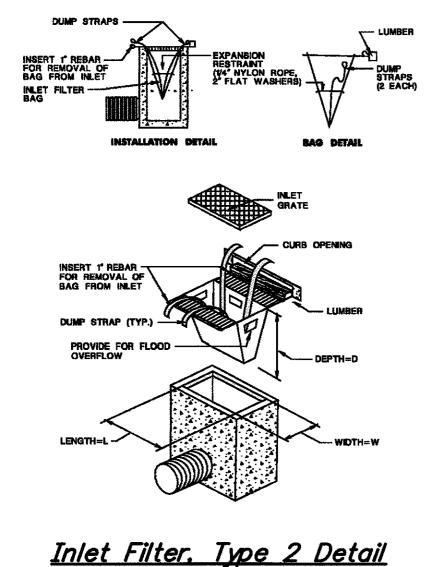


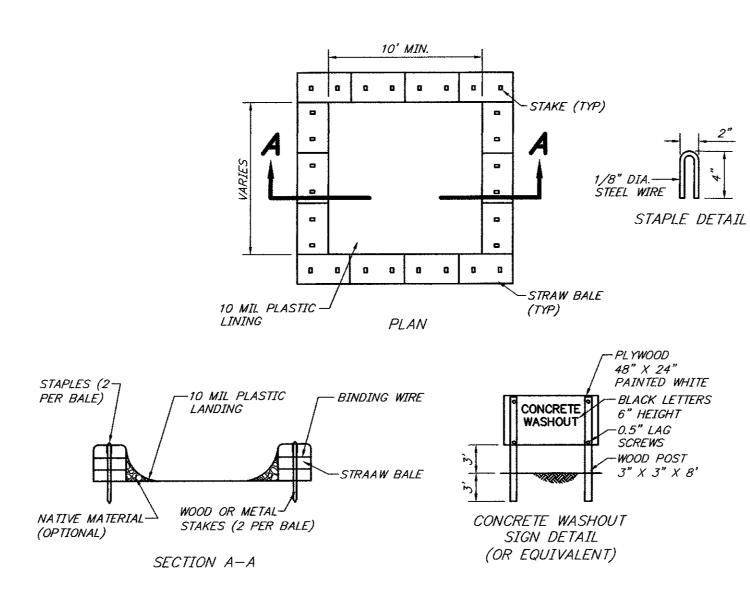
CERTIFICATE OF AUTHORIZATION #24GA28041300

DATE 8 6 21









Concrete Washout Area Detail

NOTES:

ACTUAL LAYOUT DETERMINED IN FIELD

AND DISPOSED OF AT AN ACCEPTED WASTE SITE

CONCRETE WASHOUT FACILITY

2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY

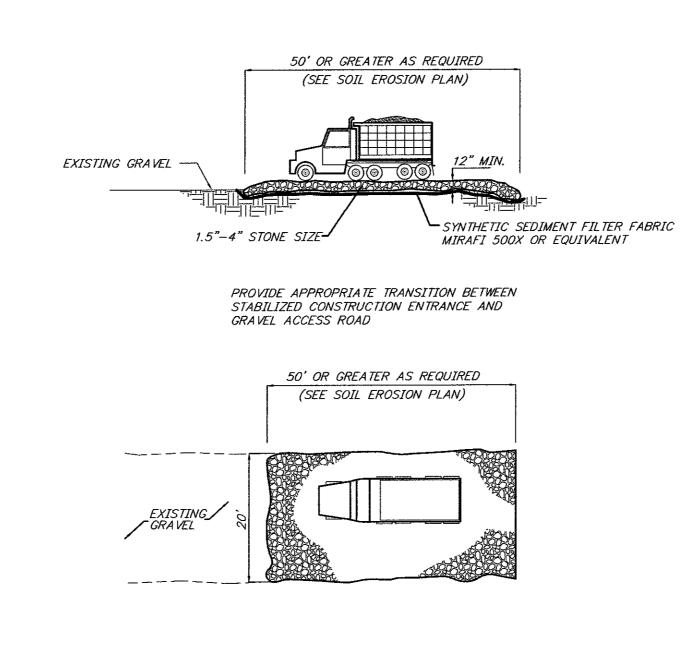
OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE

CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY PLACEMENT ON SITE 4. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED

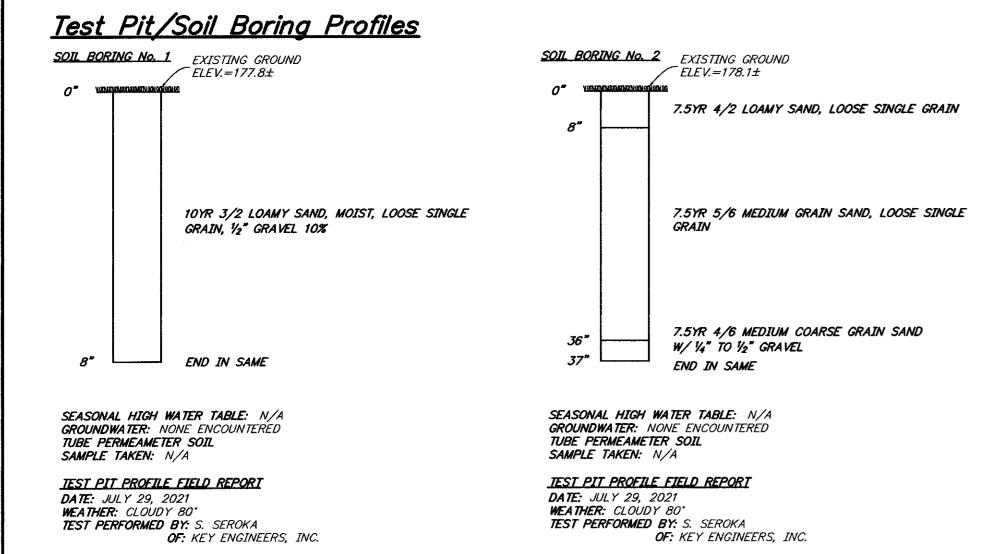
AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE

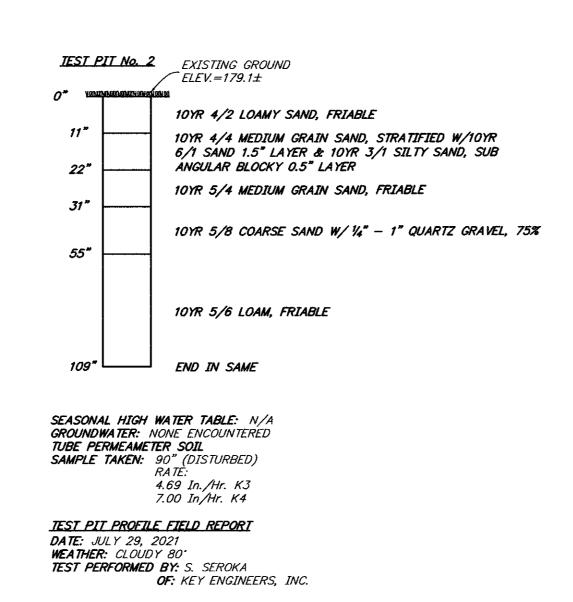
WHEN THE CONCRETE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE

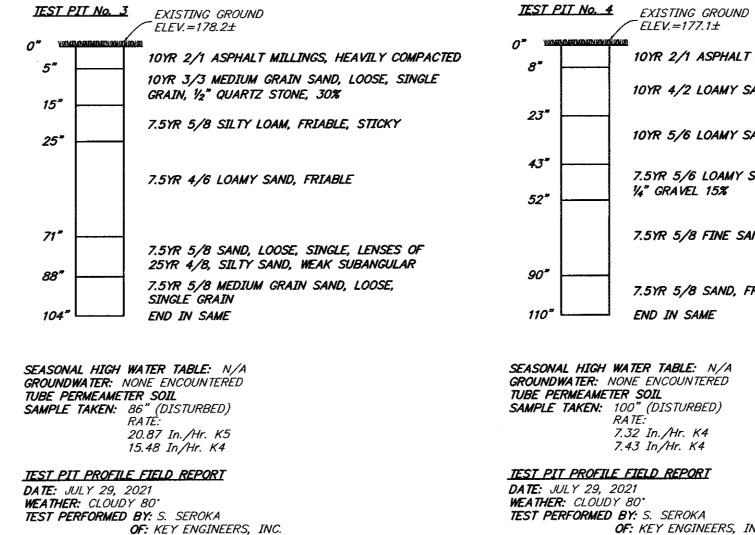
SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER ACCEPTED BY THE

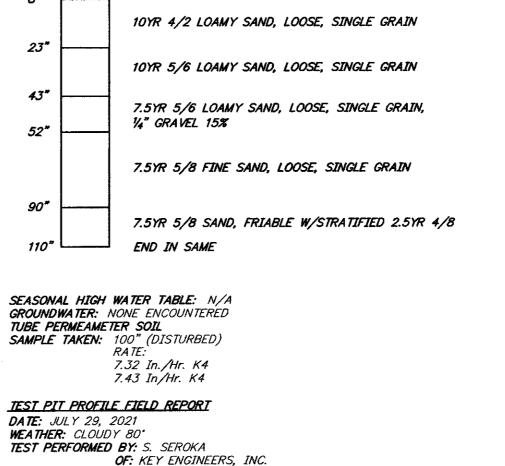


Stabilized Construction Entrance





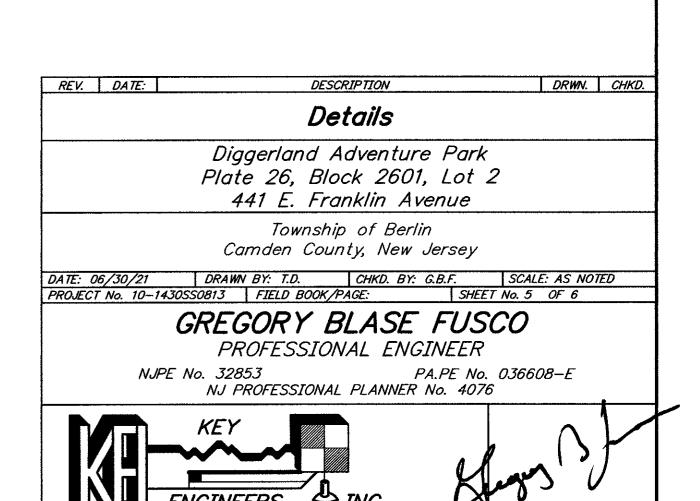




ELEV.=177.1±

10YR 2/1 ASPHALT MILLINGS

REPRODUCTION, ALTERATION AND AMENDMENT OF THIS PLAN SHALL BE PERFORMED ONLY BY KEY ENGINEERS, INC. AND SHALL BE PERFORMED UNDER THE ABSOLUTE DIRECTION OF THE LICENSED PROFESSIONAL WHOSE NAME AND SIGNATURE APPEARS HEREON.

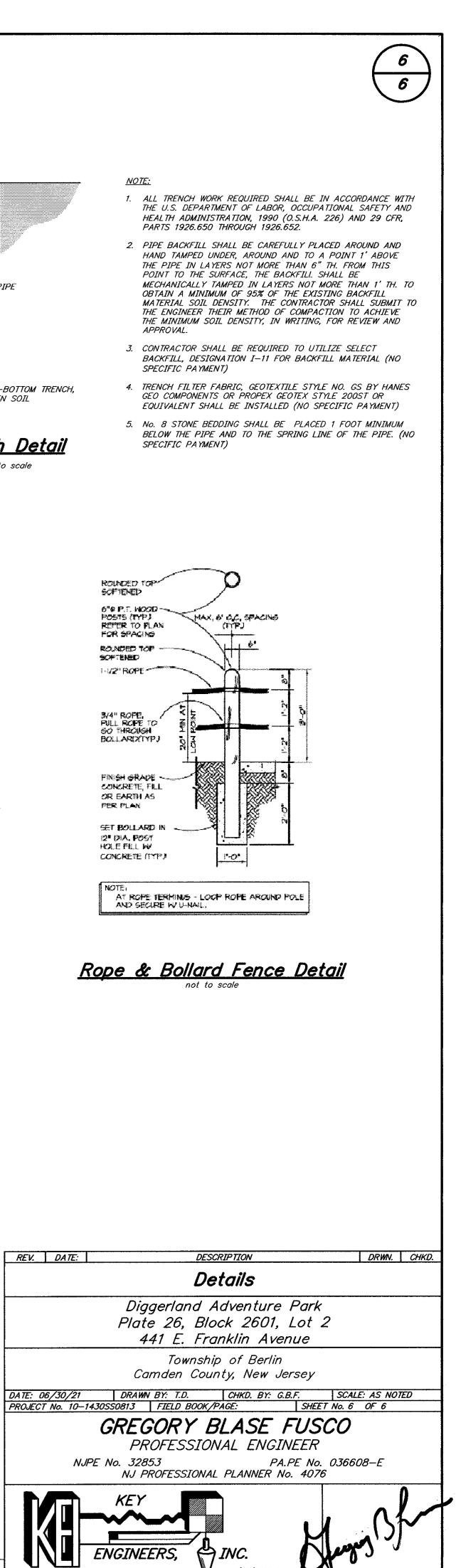


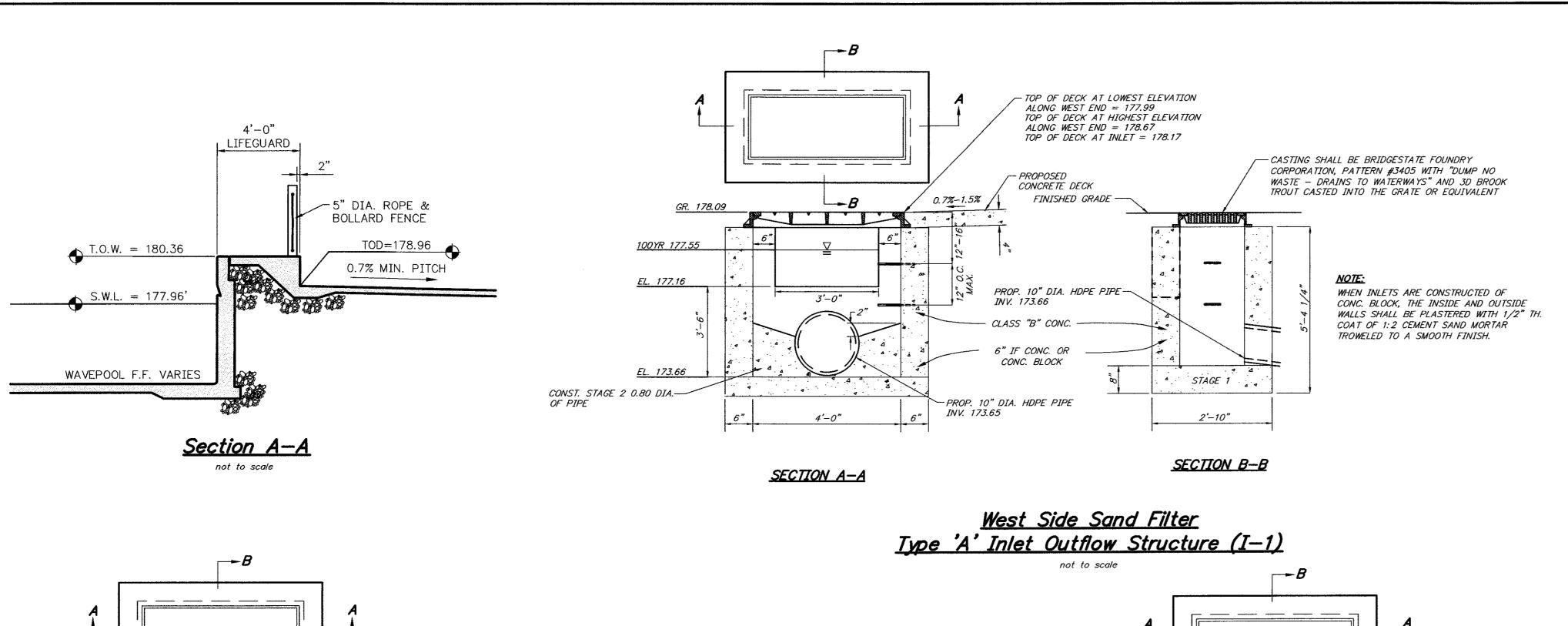
DATE 8 C 21

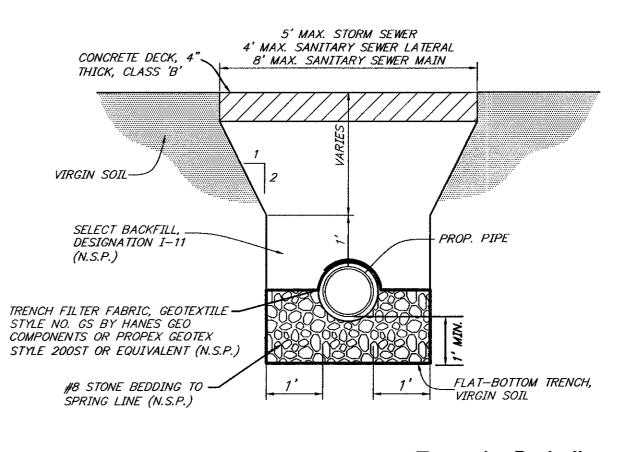
80 S. WHITE HORSE PIKE

BERLIN, NEW JERSEY 08009-2399

CERTIFICATE OF AUTHORIZATION #24GA28041300







Trench Detail not to scale

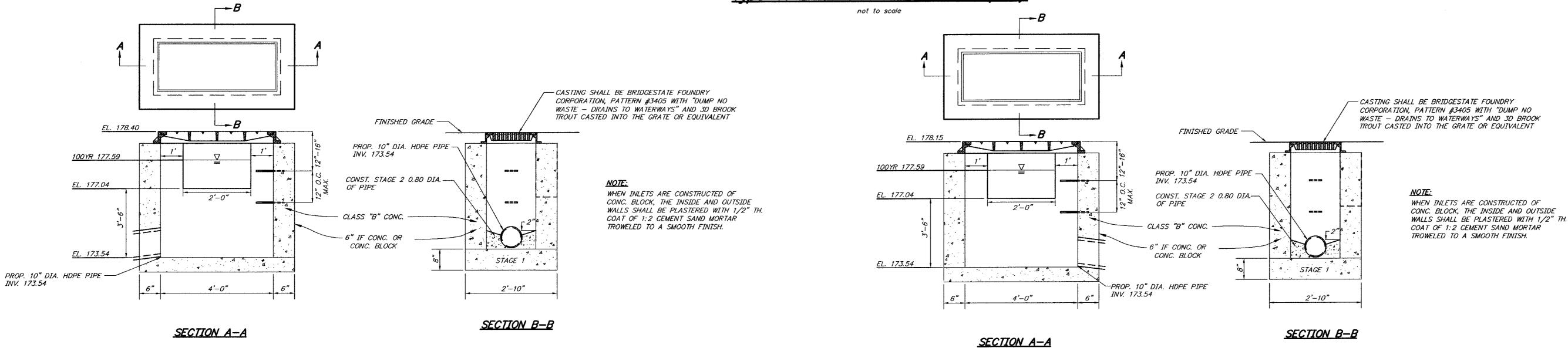
SCHIENED 6"9 P.T. WOOD POSTS (TYP) REFER TO FLAN

ROUNDED TOP

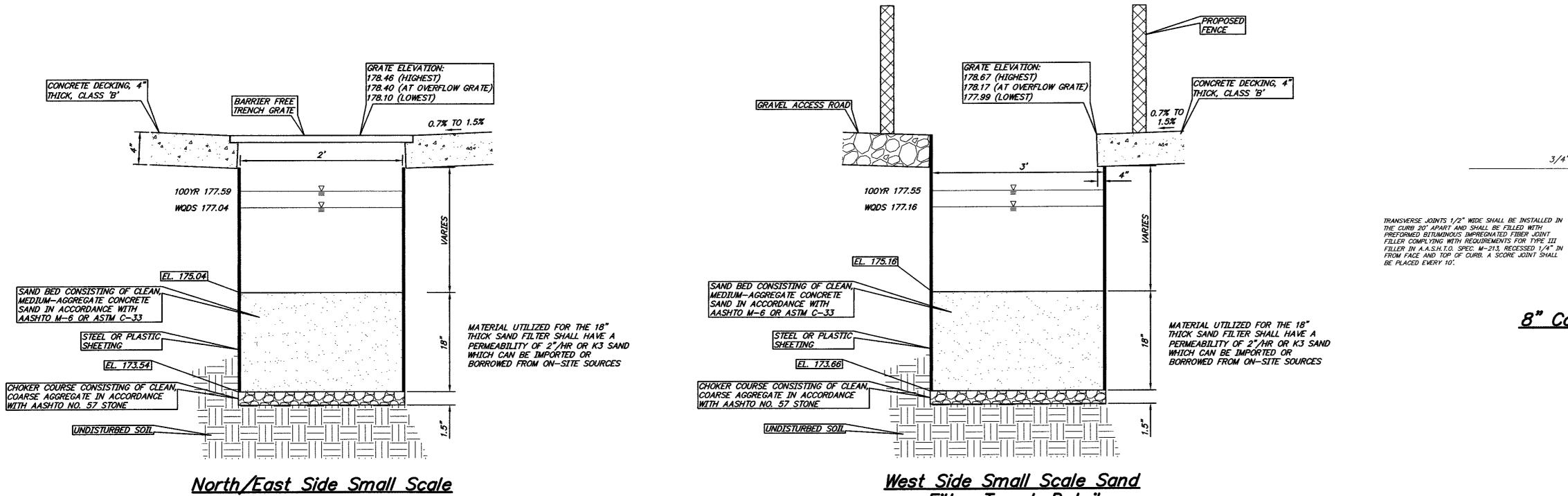
1-V2" ROPE

SOFTENED

- 1. ALL TRENCH WORK REQUIRED SHALL BE IN ACCORDANCE WITH THE U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, 1990 (O.S.H.A. 226) AND 29 CFR, PARTS 1926.650 THROUGH 1926.652.
- 2. PIPE BACKFILL SHALL BE CAREFULLY PLACED AROUND AND HAND TAMPED UNDER, AROUND AND TO A POINT 1' ABOVE THE PIPE IN LAYERS NOT MORE THAN 6" TH. FROM THIS POINT TO THE SURFACE, THE BACKFILL SHALL BE MECHANICALLY TAMPED IN LAYERS NOT MORE THAN 1' TH. TO OBTAIN A MINIMUM OF 95% OF THE EXISTING BACKFILL MATERIAL SOIL DENSITY. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THEIR METHOD OF COMPACTION TO ACHIEVE THE MINIMUM SOIL DENSITY, IN WRITING, FOR REVIEW AND
- 3. CONTRACTOR SHALL BE REQUIRED TO UTILIZE SELECT BACKFILL, DESIGNATION I-11 FOR BACKFILL MATERIAL (NO SPECIFIC PAYMENT)
- 4. TRENCH FILTER FABRIC, GEOTEXTILE STYLE NO. GS BY HANES GEO COMPONENTS OR PROPEX GEOTEX STYLE 200ST OR
- 5. No. 8 STONE BEDDING SHALL BE PLACED 1 FOOT MINIMUM BELOW THE PIPE AND TO THE SPRING LINE OF THE PIPE. (NO SPECIFIC PAYMENT)



# East Side Sand Filter Type 'A' Inlet Outflow Structure (I-3)



North/East Side Sand Filter

Type 'A' Inlet Outflow Structure (I-2)

Sand Filter Trench Detail

<u>West Side Small Scale Sand</u> <u>Filter Trench Detail</u>

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PROFESSIONAL WHOSE NAME AND SIGNATURE APPEARS HEREON.

8" Concrete Curb Detail

3/4" ROPE, PULL ROPE TO GO THROUGH BOLLARIXTYPJ FINESH GRADE ~ CONCRETE, FILL OR EARTH AS FER PLAN SET BOLLARD IN 2" DIA, POST HOLEFILLW AT ROPE TERMINUS - LOOP ROPE AROUND POLE AND SECURE WIU-NAIL.

Rope & Bollard Fence Detail

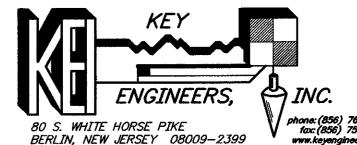
### REV. DATE: DESCRIPTION Details

Diggerland Adventure Park Plate 26, Block 2601, Lot 2 441 E. Franklin Avenue

Township of Berlin

# GREGORY BLASE FUSCO

PROFESSIONAL ENGINEER NJ PROFESSIONAL PLANNER No. 4076



DATE BLU