PROPERTY OWNERS WITHIN 200 FEET The Borough Of Sayreville TAX ASSESSOR'S OFFICE

167 MAIN STREET • SAYREVILLE, NJ 08872 TEL: 732-390-7080 • FAX 732-651-3159

| BLOCKS 257 257.01 257.02 | LOTS 3.04 & 3.052 1, 1.01, 1.10, 4, 5, 6, 20 & 30.12 1, 1.01 & 22 | | | | | |
|-----------------------------------|--|--|--|--|--|--|
| BLOCK LOT | 62.02 20 | Consolidated Rail Corporation Norfolk Southern – Taxation Department 650 West Peachtree Street NW Atlanta, GA 30308 | | | | |
| BLOCK LOT | 62.02 20.01 | Consolidated Rail Corporation Norfolk Southern – Taxation Department 650 West Peachtree Street NW Atlanta, GA 30308 | | | | |
| BLOCK LOT | 256 2.03 | Borough of Sayreville 167 Main Street Sayreville, NJ 08872 | | | | |
| BLOCK LOTS | 256 3 & 3.01 | Sayreville Economic & Redevelopment Agency 167 Main Street Sayreville, NJ 08872 | | | | |
| BLOCK LOT | 256.01 10 | Middlesex County Utilities Authority P.O. Box 159 Sayreville, NJ 08872 | | | | |
| BLOCK LOT | 257 3.06 | Faith Fellowship Ministries, Inc. 2707 Main Street Sayreville, NJ 08872 | | | | |
| BLOCK LOTS | 257.01 1.03 & 3.01 | Middlesex County Utilities Authority P.O. Box 159 Sayreville, NJ 08872 | | | | |

| -2- | | |
|--------------|----------------------|---|
| BLOCK LOT | 257.01 1.07 | Middlesex Cc P.O. Box 159 Sayreville, NJ |
| BLOCK LOT | 257.01 30.10 | Sayreville Ecc 167 Main Stre Sayreville, NJ |
| BLOCK LOT | 257:01 30.11 | Sayreville Eco 167 Main Stre Sayreville, NJ |
| BLOCK LOT | 275.02 , [| New Jersey T Turnpike & H East Brunswid |
| BLOCK LOT | 326.01 5 | C & K Intern 2600 Main St Sayreville, NJ |
| BLOCK LOT | 326.01 6 | New Jersey T 581 Main Stre Woodbridge, |
| GARDEN STA | TE PARKWAY | Garden State New Jersey 1 P. O. Box 50 Woodbridge, |
| EASEMENT | | Borough of S 167 Main Stro Sayreville, NJ |

ounty Utilities Authority conomic & Redevelopment Agency conomic & Redevelopment Agen Turnpike Authority Highway 18 wick, NJ 08816 national, LLC Street NJ 08872 Turnpike Authority treet ge, NJ 07095 Turnpike Authority , NJ 07095 Sayreville, NJ 08872 Middlesex County Utilities Authority P. O. Box 159 Sayreville, NJ 08872

This is to certify that the preceding list of names, addresses and block & lot numbers are, to the best of my knowledge, within a 200' radius of properties known as:

Be advised that these records may contain information governed by L. 2015, c. 226 and L. 2020, c. 125, which

3.04 & 3.052 1, 1.01, 1.10, 4, 5, 6, 20 & 30.12 257.01 257.02 1, 1.01 & 22 as shown on the official tax map for the Borough of Sayreville.

Dated: September 22, 2023

include civil and criminal penalties for improper disclosure.

EASEMENT

LIST OF SAYREVILLE UTILITIES (2023): NJDE 36 West State Street P.O. Box 42 Trenton, NJ 08625

Middlesex County Planning Bo 75 Bayard Street - 5th Floor New Brunswick, NJ 08902

732-745-3812

David Goldberg Transportation Cente 1035 Parkway Avenue P.O. Box 600

Trenton, NJ 08625 New Jersey Natural Gas Company 1415 Wyckoff Road Wall Township, NJ 07727

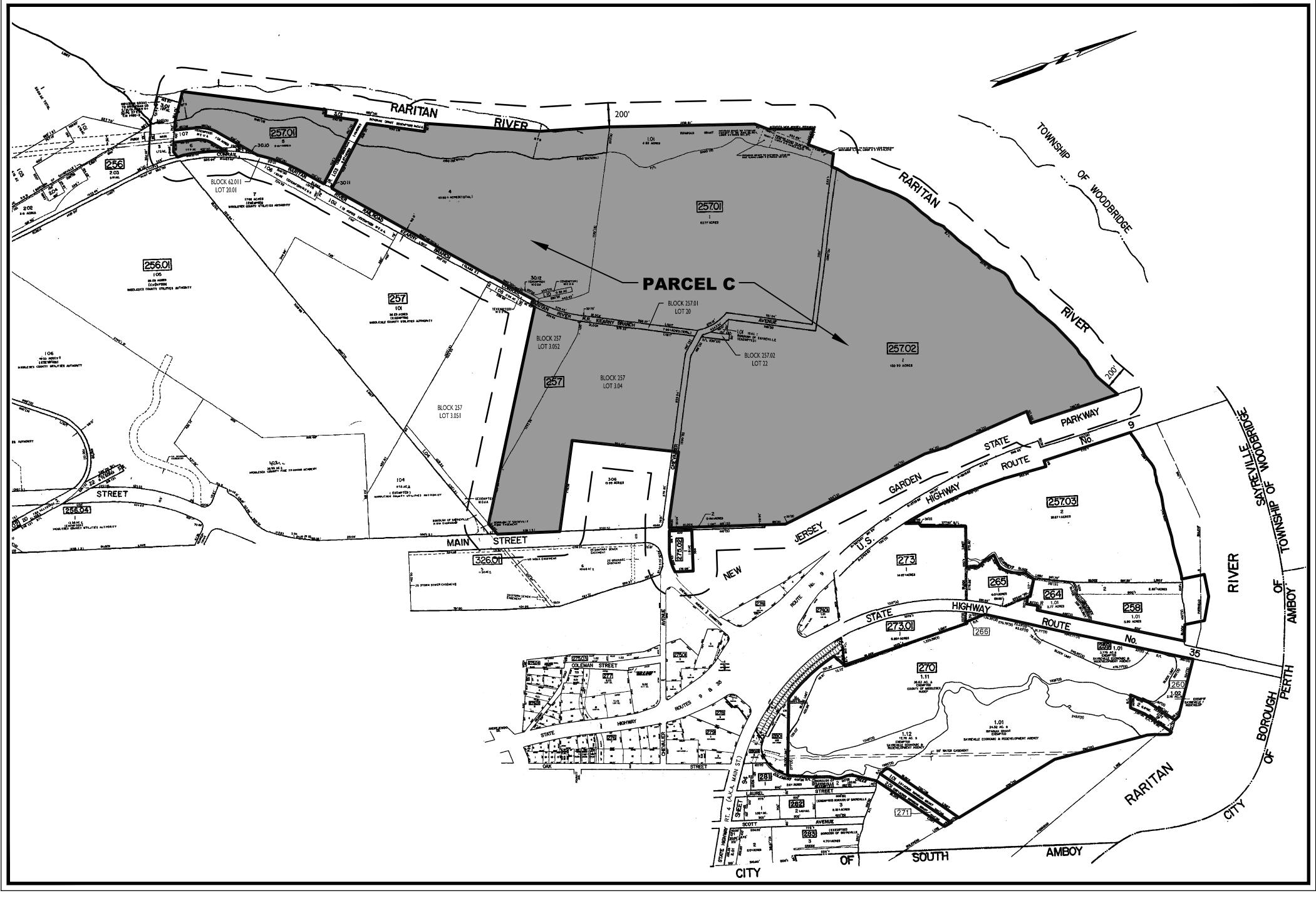
Cablevision 275 Centennial Avenue CN8805 Piscataway, NJ 08855-6805 Attn: Construction Department 732-583-0606

Middlesex County Landfill 53 Edgeboro Road East Brunswick, NJ 08816-1636 732-246-4313 **Consolidated Rail Corporation** 330 Fellowship Road, Suite 300 Mount Laurel, NJ 08054

Verizon New Jersey 540 Broad Street – 20th Floor Newark, NJ 07102 P.O. Box 152206 Irving, TX 75015

15 Hoes Lane New Brunswick, NJ 08902 732-721-7000 80 Park Plaza P.O. Box 570 Newark, NJ 07102

JCP&L c/o FirstEnergy 300 Madison Avenue P.O. Box 1911 Morristown, NJ 07962-1911 Attn: Corporate Properties 732-723-6609 or 1-800-662-3115 Borough of Sayreville Water & Sewer 3751 Bordentown Avenue Parlin, NJ 08859 732-390-7060 Middlesex County Utilities Authority (MCUA) 2571 Main Street Sayreville, NJ 08872-0086 Transcontinental Gas Pipeline Corporation 315 Cold Soil Road Lawrenceville, NJ 08540 Attn: Robert Ford 1-800-440-8475 *OR*: P.O. Box 1396 Houston, TX 77251



PHASE 1A GATEWAY SERVICES DISTRICT AMENDED SITE PLAN

FOR

SAYREVILLE SEAPORT ASSOCIATES

BLOCK 256.01, LOT 24

BLOCK 257.02, LOT 1.05

BOROUGH OF SAYREVILLE, MIDDLESEX COUNTY, NEW JERSEY

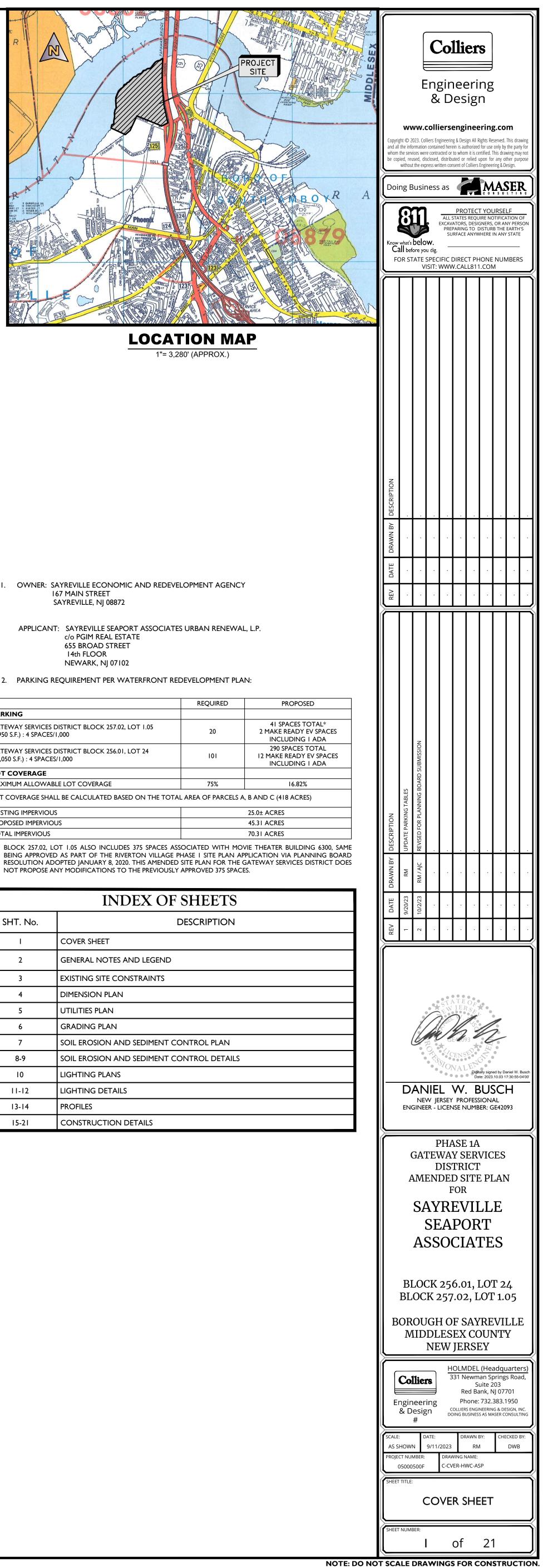
KEY & ZONING MAP

500 400 300 200 100 **0** 250 **500** SCALE : 1" = 500'

APPROVED BY THE PLANNING BOARD OF THE BOROUGH OF SAYREVILLE AT THE

| CHAIRMAN | DATE |
|-----------|------|
| SECRETARY | DATE |
| ENGINEER | DATE |





- I. OWNER: SAYREVILLE ECONOMIC AND REDEVELOPMENT AGENCY
- 2. PARKING REQUIREMENT PER WATERFRONT REDEVELOPMENT PLAN:

| REQUIRED | PROPOSED | | | | | | |
|---------------------------------|---|--|--|--|--|--|--|
| | | | | | | | |
| 20 | 41 SPACES TOTAL* 2 MAKE READY EV SPAC INCLUDING 1 ADA | | | | | | |
| 101 | 290 SPACES TOTAL 12 MAKE READY EV SPA INCLUDING 1 ADA | | | | | | |
| | | | | | | | |
| 75% | 16.82% | | | | | | |
| TAL AREA OF PARCELS | A, B AND C (418 ACRES) | | | | | | |
| EXISTING IMPERVIOUS 25.0± ACRES | | | | | | | |
| | 45.31 ACRES | | | | | | |
| | | | | | | | |
| | 101 75% | | | | | | |

| INDEX OF SHEETS | | | | | | | |
|-----------------|---|--|--|--|--|--|--|
| SHT. No. | DESCRIPTION | | | | | | |
| I | OVER SHEET | | | | | | |
| 2 | ENERAL NOTES AND LEGEND | | | | | | |
| 3 | KISTING SITE CONSTRAINTS | | | | | | |
| 4 | IMENSION PLAN | | | | | | |
| 5 | JTILITIES PLAN | | | | | | |
| 6 | GRADING PLAN | | | | | | |
| 7 | SOIL EROSION AND SEDIMENT CONTROL PLAN | | | | | | |
| 8-9 | SOIL EROSION AND SEDIMENT CONTROL DETAILS | | | | | | |
| 10 | LIGHTING PLANS | | | | | | |
| 11-12 | LIGHTING DETAILS | | | | | | |
| 13-14 | PROFILES | | | | | | |
| 15-21 | CONSTRUCTION DETAILS | | | | | | |

| | GENERAL NOTES | |
|--|---|----------------------|
| THE SUBJECT PROPERTY IS KNOWN AS PARCEL "C" NL INDUSTRIES, INC. MAIN PLANT PARCEL. THE PROPERTY IS LOCATED IN THE SAYREVILLE WATERFRONT REDEVELOPMENT AREA AND CONTAINS A TOTAL TRACT AREA ± 312 ACRES. | MIDDLESEX COUNTY UTILITIES AUTHORITY SAYREVILLE ECONOMIC REDEVELOPMENT AGENCY BOROUGH OF SAYREVILLE TREE REMOVAL PERMIT | 5.1 |
| THE SUBJECT PROPERTY IS BOUNDED ON THE NORTH BY THE GARDEN STATE PARKWAY, ON THE WEST BY RARITAN RIVER, ON THE EAST BY MAIN STREET AND ON THE SOUTH BY THE MIDDLESEX COUNTY UTILITIES AUTHORITY (MCUA) SEWAGE TREATMENT PLAN. | | I |
| 4. THIS SET OF PLANS HAS BEEN PREPARED FOR THE PURPOSES OF MUNICIPAL AND AGENCY REVIEW AND APPROVAL. THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL ALL APPROVALS REQUIRED HAVE BEEN OBTAINED, ALL CONDITIONS | VERIZON - TELEPHONE SAYREVILLE WATER DEPARTMENT - WATER SAYREVILLE SEWER DEPARTMENT - SANITARY SEWER | ו 7. י |
| OF APPROVAL HAVE BEEN SATISFIED AND THE DRAWINGS HAVE BEEN STAMPED "ISSUED FOR CONSTRUCTION". THIS SHALL INCLUDE APPROVAL OF ALL CATALOG CUTS, SHOP DRAWINGS AND/OR DESIGN CALCULATIONS AS REQUIRED BY THE PROJECT OWNER AND/OR MUNICIPAL ENGINEER. | MIDDLESEX COUNTY UTILITIES AUTHORITY (MCUA) - SEWER CABLEVISION - CABLE 38 | |
| THE BOUNDARY INFORMATION IS BASED ON THE FOLLOWING MAPS: A. BOUNDARY SURVEY INFORMATION FOR THE PROPOSED RIGHT OF WAY DEDICATION | 16. BUILDING SIGNAGE IS IDENTIFIED ON THE INDIVIDUAL ARCHITECTURAL PLANS. 39 | ا ۶. ⁻ |
| WITHIN PARCEL 'A' SHOWN HEREON IS BASED ON A PLAN ENTITLED: "SURVEY OF GREEN ACRES PARTICIPATION WITHIN PARCEL 'A' N/F SAYREVILLE ECONOMIC & REDEVELOPMENT AGENCY", PREPARED FOR SAYREVILLE ECONOMIC & REDEVELOPMENT AGENCY, PREPARED BY CME ASSOCIATES, DATED APRIL 3, 2009. | 17. THE BUILDING FOOTPRINTS SHOWN HEREON ARE BASED ON THE FOLLOWING ARCHITECTURAL PLANS: ROY A. WILLIAMS ARCHITECT, DATED SEPTEMBER I, 2023 GARY KLIESCH AND ASSOCIATES ARCHITECTS, DATED FEBRUARY 9, 2023 | ו ס.ו ו |
| B. BOUNDARY SURVEY INFORMATION FOR PARCELS B & C TAKEN FROM A PLAN ENTITLED: "ALTA/ACSM SURVEY OF A PORTION OF BLOCKS 257, 257.01, 257.02, 257.03, 258 & 264 PREPARED FOR SAYREVILLE ECONOMIC REDEVELOPMENT AGENCY, SITUATED IN SAYREVILLE BOROUGH, MIDDLESEX COUNTY, NEW JERSEY", DATED MARCH 29, 2018 AND REVISED THROUGH JULY 8, 2019, PREPARED BY CME ASSOCIATES. | 18. LANDSCAPING IS IDENTIFIED ON PLANS BY SITE SOLUTIONS DATED MAY 15, 2019, REVISED SEPTEMBER 28, 2023. 19. COLLIERS ENGINEERING AND DESIGN HAS PERFORMED NO ENVIRONMENTAL WORK FOR THIS PROPERTY AND THIS PLAN IS NOT DEPICTING ENVIRONMENTAL CONDITIONS OR A | . |
| C. BOUNDARY SURVEY INFORMATION FOR BLOCK 256.01, LOT 24 & BLOCK 257.02, LOT 1.05 TAKEN FROM A PLAN ENTITLED: "FINAL PLAT MAJOR SUBDIVISION FOR RIVERTON VILLAGE PHASE 1 PARCEL C: BLOCK 257 - LOTS 3.04 & 3.052 BLOCK 257.01 LOTS 1, 1.01, 1.10, 4, 20 & 30.12 BLOCK 257.02 - LOTS 1, 1.01 & 22 BOROUGH OF SAYREVILLE MIDDLESEX COUNTY NEW JERSEY", DATED 5/15/19 AND REVISED THROUGH 10/20/21 PREPARED BY COLLIERS ENGINEERING & DESIGN. | CERTIFICATION/WARRANTY FOR THE ADEQUACY OF THE PROPOSED REMEDIATION TREATMENTS, CONTROLS AND/OR REMEDIES, WHICH ARE BEING CONSTRUCTED. AREAS OF CONTAMINATION DEPICTED WITHIN THESE PLANS ARE APPROXIMATE AND THE CONTRACTOR SHALL CONFIRM THE EXACT LOCATIONS IN THE FIELD WITH ROUX ASSOCIATES, INC. AND SOVEREIGN CONSULTING, INC. PRIOR TO ANY EXCAVATION. | 2. |
| 6. THE TOPOGRAPHIC INFORMATION IS BASED ON THE FOLLOWING MAPS: | 20. EXISTING AND CURRENT SITE INVESTIGATION AND REMEDIATION ACTIVITIES ARE BEING CONDUCTED BY OTHERS UNDER ISRA CASE NUMBER E88768. 43 21. APPLICANT TO RETAIN A GEOTECHNICAL ENGINEER FOR ON-SITE INSPECTIONS OF | 3 |
| A. A PLAN ENTITLED, "TOPOGRAPHIC SURVEY FOR SAYREVILLE SEAPORT ASSOCIATES, L.P.", BOROUGH OF SAYREVILLE, MIDDLESEX COUNTY, NEW JERSEY" PREPARED BY MASER CONSULTING, P.A. DATED FEBRUARY 9, 2009 AND REVISED THRU 5/7/19. B. THE TOPOGRAPHIC INFORMATION IS TAKEN FROM PHOTOGRAMMETRIC MAPPING | SUBGRADE CONDITIONS, EXCAVATION AND CONTROLLED FILL OF POOR SUBGRADE AREAS, AND CERTIFICATION OF ALL SUBGRADE AREAS PRIOR TO CONSTRUCTION OF ANY PAVEMENT AND UNDERGROUND UTILITIES ON THE SUBJECT SITE. A SCOPE OF SERVICES SHOULD BE PROVIDE TO THE BOROUGH ENGINEER FOR REVIEW PRIOR TO THE COMMENCEMENT OF ANY SITE IMPROVEMENT WORK. | |
| COMPILED AND STEREO PLOTTED BY COOPER AERIAL SURVEYS CO. BASED ON AERIAL PHOTOGRAPHS DATED JUNE 10, 2016. THE VERTICAL DATUM IS RELATIVE TO NAVD 88 AND THE HORIZONTAL DATUM IS RELATIVE TO NAD 1983, NEW JERSEY STATE PLANE COORDINATE SYSTEM. | 45 22. THE DETAILS FOR NON-STANDARD STRUCTURES WILL BE PROVIDED DURING SHOP DRAWING REVIEW. THE PROCESS FOR SHOP DRAWING REVIEW WILL BE AS FOLLOWS: A. THE CONTRACTOR WILL SUBMIT THE SHOP DRAWING TO THE CONSTRUCTION | |
| C. A MAP ENTITLED: "AERIAL TOPOGRAPHIC SURVEY FOR WEST SIDE, SAYREVILLE REDEVELOPMENT, BOROUGH OF SAYREVILLE, MIDDLESEX COUNTY, NEW JERSEY", DATED JANUARY 3, 2008, PREPARED BY MASER CONSULTING, P.A. | MANAGER; 47 B. THE CONSTRUCTION MANAGER WILL RECORD THE SUBMISSION AND PROVIDE IT TO THE SITE ENGINEER; 48 | • |
| D. THE ELEVATIONS SHOWN HEREON ARE RELATIVE TO NAVD 88 ADJUSTMENT AND ARE BASED ON NEW JERSEY GEODETIC MONUMENT NUMBER KV7136. | THE SITE ENGINEER; 48 C. THE SITE ENGINEER WILL REVIEW AND COMMENT/APPROVE THE SUBMITTAL; | 3. <i>1</i> |
| THE AS-BUILT INFORMATION IS BASED ON THE FOLLOWING MAPS: A. A PLAN ENTITLED, "SANITARY SEWER AS-BUILT PLAN QA/QC AS OF OCTOBER 26, 2022" FOR RIVERTON PHASE IA, IB, IC & ID, CONSISTING OF 6 SHEETS, PREPARED BY | D. UPON STAMPED APPROVAL BY THE SITE ENGINEER IT WILL BE SUBMITTED TO THE BOARD ENGINEER FOR FINAL APPROVAL. 23. THE CONTRACTOR SHALL BE FAMILIAR WITH THE REMEDIAL ACTION WORK PLANS FOR 50 | , |
| GLADSTONE DESIGN, INC., DATED OCTOBER 26, 2022. B. A PLAN ENTITLED, "STORM SEWER AS-BUILT PLAN QA/QC AS OF AUGUST 04, 2022" FOR RIVERTON PHASE IA, IB, IC & ID, CONSISTING OF 4 SHEETS, PREPARED BY GLADSTONE | THE SITE AND APPLICABLE ENVIRONMENTAL REPORTS FOR RADIOLOGICAL RAWP, SEE REPORT ENTITLED, "COMMERCIAL RADIOLOGICAL 51 | I |
| C. A PLAN ENTITLED, "V ZONE WALL AS-BUILT PLAN FOR RIVERTON PHASE IA, IB, IC & ID, CONSISTING OF 2 SHEETS, PREPARED BY GLADSTONE DESIGN, INC., DATED DECEMBER 06, 2022. | REMEDIAL ACTION WORK PLAN FOR THE MARSULEX, ORE STORAGE, SULFUR AND CHLORIDE/RESEARCH AREAS, NATIONAL LEAD INDUSTRIES, INC. SITE, SAYREVILLE, NEW JERSEY'' PREPARED BY PROFESSIONAL RADIATION CONSULTING, INC. AND 52 ENVIRONMENTAL RESTORATION GROUP, INC., DATED NOVEMBER 13, 2009 INCLUDING ANY REVISIONS AND/OR ADDENDUMS. | ا 2. ا |
| D. A PLAN ENTITLED, "GABION WALL AS-BUILT PLAN FOR RIVERTON PHASE IA, IB, IC & ID, CONSISTING OF I SHEET, PREPARED BY GLADSTONE DESIGN, INC., DATED DECEMBER 19, 2022. | 53 FOR CONVENTIONAL RAWP, SEE REPORT ENTITLED, "REMEDIAL INVESTIGATION REPORT/REMEDIAL ACTION SELECTION REPORT/REMEDIAL ACTION WORK PLAN FOR ACTIVE SOIL REMEDIATION-CONVENTIONAL CONSTITUENTS IN AREA 3, AOC MAR-17/21, MOORE AND NORTH DITCHES AND CERTAIN FRESHWATER WETLAND AREAS" PREPARED BY ROUX ASSOCIATES, INC., DATED OCTOBER 26, 2009 INCLUDING | • |
| E. A PLAN ENTITLED, "ELECTRIC DUCTBANK AS-BUILT PLAN FOR RIVERTON VILLAGE PHASE I" SHEET I OF I PREPARED BY GLADSTONE DESIGN, INC., DATED MARCH 9, 2023. F. A PLAN ENTITLED, "WATER MAIN AS-BUILT PLAN RIVERTON VILLAGE PHASE I PARCEL C" | ANY REVISIONS AND/OR ADDENDUMS. 55 REMEDIAL ACTION SELECTION/REMEDIAL DESIGN CRITERIA REPORT, NL INDUSTRIES, IN.C FACILITY, SAYREVILLE, MIDDLESEX COUNTY, NEW JERSEY ISRA CASE NO. 88768, | '.' ا ا |
| SHEET I OF I PREPARED BY GLADSTONE DESIGN, INC. DATED SEPTEMBER 12, 2022. G. A PLAN ENTITLED, "UNDERDRAIN AS-BUILT PLAN RIVERTON VILLAGE PHASE I PARCEL C" SHEET I OF I PREPARED BY GLADSTONE DESIGN, INC. DATED MARCH 09, 2023 | PREPARED FOR NL INDUSTRIES, HIGHTSTOWN, NEW JERSEY, PREPARED BY ENVIRON CORPORATION, PRINCETON, NEW JERSEY DATED JULY 1998. 24. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR DISTURBANCE WITHIN ANY AOC, | |
| REVISED JUNE 22, 2023. H. PLAN ENTITLED, "FORCE MAIN AS-BUILT PLAN RIVERTON VILLAGE PHASE I PARCEL C" SHEET I OF I PREPARED BY GLADSTONE DESIGN, INC. DATED SEPTEMBER 08, 2022. | BOTH CONVENTIONAL AND RADIOLOGICAL WHICH IS REQUIRED AS PART OF THE CONSTRUCTION SHOWN HEREON.5625. THE CAPPING DETAILS SHOWN HEREON HAVE BEEN OBTAINED FROM THE REPORT57 | : |
| TIDAL WETLAND LINE IS PER MAP ENTITLED: "STATE OF NEW JERSEY, DEPARTMENT OF ENVIRONMENTAL PROTECTION, KEASBY REACH SOUTH, PERTH AMBOY-SOUTH AMBOY" MAP NO. 609-2100 REVISED NOVEMBER 21, 1983 AND MAP ENTITLED "STATE OF NEW JERSEY, DEPARTMENT OF ENVIRONMENTAL PROTECTION, KEASBY REACH, PERTH AMBOY", MAP NO. 602-2100, REVISED NOVEMBER 21, 1983. | 26. THE SITE CONTRACTOR IS RESPONSIBLE TO OBTAIN ANY NECESSARY DEWATERING | |
| 9. WETLANDS LIMITS SHOWN HEREON TAKEN FROM THE FOLLOWING MAPS: A. THE LIMITS OF FRESHWATER WETLANDS FOR PARCEL 'A' SHOWN HEREON WERE VERIFIED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION WITH A LETTER OF INTERPRETATION. THE NJDEP ISSUED A FRESHWATER WETLANDS LETTER OF INTERPRETATION (LOI) (FILE NO. 1219-98-0003.1 FWLI). THE DATE OF THE LOI IS JUNE 12, 1998. THE LOI WAS REISSUED ON JUNE 12, 2003. | 27. EXISTING UTILITY INFORMATION SHOWN HEREON HAS BEEN COLLECTED FROM VARIOUS 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 CONSTRUCTIONS, 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. THE CONTRACTOR SHALL NOTIFY | |
| THE WETLANDS WITHIN THE INTERIOR OF PARCEL A HAVE BEEN REMOVED AND A WETLAND MITIGATION PROJECT IS CURRENTLY UNDER CONSTRUCTION OFFSITE. | THE UNDER SIGNED PROFESSIONAL IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER MATERIALLY FROM THOSE REPRESENTED HEREON. SUCH CONDITIONS COULD RENDER THE DESIGNS HEREON INAPPROPRIATE OR INEFFECTIVE. | D |
| B. THE LIMITS OF FRESHWATER WETLANDS FOR PARCEL 'B' SHOWN HEREON WERE VERIFIED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION WITH A LETTER OF INTERPRETATION. THE NJDEP ISSUED A FRESHWATER WETLANDS LETTER OF INTERPRETATION (LOI) (FILE NO. 1219-98-0005. IFWLI) FOR PARCEL B. THE DATE OF THE LOI IS JUNE 18, 1998. THE LOI WAS REISSUED ON JUNE 18, 2003. | THE OFF-SITE UTILITIES SHOWN HEREON WERE TAKEN FROM THE FOLLOWING PLANS: I. A. SANITARY SEWER FOR EXISTING 12" PVC SDR 35 GRAVITY SEWER PIPE (DRY LINE) IN CHEVALIER AVENUE COLLECTING THE AREAS ALONG KENNEDY DRIVE, 30" SANITARY 2. SEWER FOR EXISTING 14 ONG WEST SET OF MAIN STREET EXTENSION. I// "DR CEMENT 2. | |
| C. THE WETLANDS SHOWN ON LOT 3.04, BLOCK 257 ARE BASED ON A PLAN ENTITLED, "WETLANDS DELINEATION PLAN FOR SAYREVILLE SEAPORT ASSOCIATES, L.P.", PREPARED BY MASER CONSULTING P.A., DATED NOVEMBER 30, 2010, LAST REVISED JULY 20, 2011 AND VERIFIED BY THE NJDEP WITH A LETTER OF INTERPRETATION (LOI) DATED AUGUST 9, 2011 (FILE NO. 1219-04-0005.5 FWW 100001). | SEWER FORCE MAIN ALONG WEST SIDE OF MAIN STREET EXTENSION, 16" DIP CEMENT LINED WATER MAIN ALONG EAST SIDE OF MAIN STREET EXTENSION, 16" WATER MAIN ON SOUTH SIDE OF CHEVALIER AVENUE FROM THE PLAN ENTITLED "WATER, STORM AND SANITARY UTILITY AS-BUILT PLAN FOR FAITH FELLOWSHIP MINISTRIES WORLD OUTREACH CENTER, BLOCK 257, LOT 3.03, BOROUGH OF SAYREVILLE, MIDDLESEX COUNTY, NJ", PREPARED BY KURTZ ENGINEERS, PLANNERS, LAND SURVEYORS ORIGINALLY DATED 5-23-02, REVISED THRU 2-14-06 AND SIGNED BY WILLIAM M. KURTZ, PE, LS, PP. | |
| D. THE WETLANDS SHOWN ON LOT 3.06 (FAITH FELLOWSHIP MINISTRIES) ARE BASED ON A PLAN ENTITLED "WETLANDS DELINEATION PLAN FOR FAITH FELLOWSHIP MINISTRIES, INC.", PREPARED BY MASER CONSULTING P.A., DATED NOVEMBER 10, 2011 AND REVISED THROUGH JANUARY 26, 2012 AND VERIFIED BY NJDEP WITH AN LOI DATED FEBRUARY 29, 2012 (FILE NO. 1219-07-0003.1 FWW 110001). | 28. CONTRACTOR RESPONSIBLE FOR CONTACTING AND COORDINATING WITH THE OWNER AND OPERATOR (PRAXAIR) OF THE ACTIVE OXYGEN AND NITROGEN GAS PIPE LINES WHICH RUN THROUGH THE SITE AND WITHIN THE AREA OF WORK. | |
| E. WETLANDS INFORMATION FOR BLOCK 257, LOT 3.052 SHOWN HEREON WAS TAKEN FROM A PLAN ENTITLED, "WETLANDS LOCATION PLAN, LOT 3.052, BLOCK 257, BOROUGH OF SAYREVILLE, MIDDLESEX COUNTY, NEW JERSEY" PREPARED BY MASER CONSULTING, P.A. DATED DECEMBER 16, 2013. VERIFIED BY N.J.D.E.P. LETTER OF | 29. ALL STRUCTURES, CONCRETE PADS, BURIED PIPE AND UTILITIES ENCOUNTERED WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED (UNLESS NOTED OTHERWISE) AND DISPOSED OF IN ACCORDANCE WITH THE MATERIAL HANDLING PROVISIONS CONTAINED WITHIN THE RAWP. | |
| INTERPRETATION DATED JUNE 24, 2014 FILE #1219-14-0001.1 FWW 140001. F. WETLANDS INFORMATION FOR BLOCK 257.01, LOT 7 SHOWN HEREON WAS TAKEN FROM A PLAN ENTITLED, "WETLANDS LOCATION PLAN FOR LOT 7, BLOCK 257.01, | 30. CONTRACTOR IS RESPONSIBLE TO ENSURE NO CONTAMINATED MATERIAL OR WATER IS DISCHARGED FROM THE SITE, INCLUDING AS A RESULT OF CONSTRUCTION ACTIVITIES, STORM EVENTS, TIDAL EVENTS, ETC. | |
| BOROUGH OF SAYREVILLE, MIDDLESEX COUNTY, NEW JERSEY" PREPARED BY MASER CONSULTING, P.A. DATED APRIL 17, 2014. VERIFIED BY N.J.D.E.P. LETTER OF INTERPRETATION DATED JULY 21, 2014 FILE #1219-14-0006.1 FWW 140001. G. THE REMAINDER OF THE LIMITS OF FRESHWATER WETLANDS SHOWN HEREON ARE | 31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARATION AND SUBMISSION OF CATALOG CUTS, SHOP DRAWINGS AND/OR DESIGN CALCULATIONS FOR APPROVAL BY THE MUNICIPAL ENGINEER. | |
| BASED ON A PLAN ENTITLED, "WETLANDS MAPPING - NL INDUSTRIES, INC., MAIN PLANT PARCEL - BLOCK 257, LOT 3.04, BLOCK 257.01, LOTS 1, 4, 5 & 6, BLOCK 257.02, LOT 1, BLOCK 275.02, LOT 1 - BOROUGH OF SAYREVILLE, MIDDLESEX COUNTY, NEW JERSEY", PREPARED BY BRUCE R. BLAIR OF B2A SURVSAT, DATED OCTOBER 13, 1997, REVISED DECEMBER 31, 1997. THE LIMITS WERE VERIFIED BY THE NJDEP WITH AN LOI (FILE NO. 1219-04-0005.2 FWW 050001) DATED NOVEMBER 28, 2000 AND REISSUED ON AUGUST 15, 2006. | 32. STORM SEWERS 60" AND LESS SHALL BE ADS N-12 HIGH PERFORMANCE POLYPROPYLENE PIPE OR ADS SANITIE HP PIPE AS NOTED ON THE PLAN. PIPES LARGER THAN 60" SHALL BE DUROMAXX OR APPROVED EQUAL. PROPER PIPE COVERAGE SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION. PIPE LENGTHS SHOWN HEREON ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. ALL STORMWATER STRUCTURES TO BE INSTALLED SATISFYING ASSHTO H-20 LOADING | |
| H. PER NJDEP LETTER DATED FEBRUARY 24, 2015, THE 'SECONDARY' AND 'TERTIARY' LAGOONS ON PARCEL 'C' ARE NON-REGULATED FEATURES. 10. THE FLOOD HAZARD LIMITS SHOWN HEREON WERE TAKEN FROM PRELIMINARY FLOOD | REQUIREMENTS. GROUNDWATER ELEVATIONS, SOIL CONDITIONS AND OVERALL GEOTECHNICAL PROPERTIES VARY THROUGHOUT THE SITE. CONTRACTOR TO PROVIDE PIPE AND STRUCTURE STABILIZATION WHEN THESE CONDITIONS ARE ENCOUNTERED DURING | |
| INSURANCE RATE MAPS DATED JANUARY 31, 2014 MAP NUMBERS 34023C0064G, 34023C0068G, 34023C0152G AND 34023C0156G. II. PIERHEAD & BULKHEAD LINES AND RIPARIAN CLAIMS TAKEN FORM THE FOLLOWING: | | |
| A. THE PIERHEAD & BULKHEAD LINE, THE RIPARIAN CLAIMS LINE AND THE MEAN HIGH WATER LINE INFORMATION FOR PARCEL 'A' TAKEN FROM A PLAN ENTITLED: "SURVEY OF GREEN ACRES PARTICIPATION WITHIN PARCEL 'A' N/F SAYREVILLE ECONOMIC & REDEVELOPMENT AGENCY", PREPARED FOR SAYREVILLE ECONOMIC & REDEVELOPMENT AGENCY, PREPARED BY CME ASSOCIATES, DATED APRIL 3, 2009. | EXIST WITHIN CHEVALIER AVENUE BUT HAS SINCE BEEN ABANDONED. CONTRACTOR TO LEAVE ABANDONED 16" WATER MAIN IN PLACE NO CONNECTIONS PROPOSED TO THIS WATER MAIN. PROPOSED WATER MAIN EXTENSIONS AND FIRE HYDRANT LOCATIONS ARE SUBJECT TO MUNICIPAL REVIEW AND APPROVAL, ACCORDING TO THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION REGULATIONS, AMERICAN WATERWORKS ASSOCIATION STANDARDS AND BOROUGH OF SAYREVILLE | |
| B. THE PIERHEAD & BULKHEAD LINE, THE RIPARIAN CLAIMS LINE, THE MEAN HIGH WATER LINE (MHWL) INFORMATION FOR PARCEL B & C SHOWN HEREON IS BASED ON A PLAN ENTITLED: " ALTA/ACSM SURVEY OF A PORTION OF BLOCKS 257, 257.01, 257.02, 257.03, | REGULATIONS. 8" AND 10" WATER MAIN PIPE MATERIAL SHALL BE C900 PVC PIPE MADE FROM 12454 COMPOUND PER ASTM D1784 IN ACCORDANCE WITH THE DIMENSION, CHEMICAL, AND PHYSICAL REQUIREMENTS OF AWWA C900 FOR POTABLE WATER PIPE. THE WATER MAIN PIPE SHALL BE MANUFACTURED FROM NATIONAL SANITATION | |
| 258 & 264 PREPARED FOR SAYREVILLE ECONOMIC REDEVELOPMENT AGENCY, SITUATED IN SAYREVILLE BOROUGH, MIDDLESEX COUNTY, NEW JERSEY", DATED MARCH 29, 2018 AND REVISED THROUGH JULY 8, 2019, PREPARED BY CME ASSOCIATES. MHWL ELEVATION OF 2.26' (NAVD 1988) IS BASED ON TIDAL STUDIES FOR SAYREVILLE RARITAN RIVER STA. ID 8531390 AND KEASBEY, RARITAN RIVER STA. ID 8531262. LOCATION OF MHWL ELEVATION INTERPOLATED FROM AERIAL TOPOGRAPHIC MAPPING AND FIELD LOCATIONS. | FOUNDATION (NSF) APPROVED COMPOUNDS AND MEET THE REQUIREMENTS OF ANSI/NSF 61 "DRINKING WATER SYSTEM COMPONENTS - HEALTH EFFECTS". GASKETED JOINTS SHALL MEET THE REQUIREMENTS OF ASTM D 3139 - "STANDARD SPECIFICATIONS FOR PLASTIC PRESSURE PIPES USING ELASTOMERIC SEALS" AND ASTM F477 - "STANDARD FOR ELASTOMER SEALS (GASKETS) FOR JOINING PLASTIC PIPE. 16" TRANSMISSION WATER MAIN SHALL BE C905 PIPE MADE FROM 12454 COMPOUND PER ASTM D1784. ALL WATER MAINS SHALL BE INSTALLED TO PROVIDE A MINIMUM 4 FEET OF COVER OVER THE TOP OF | |
| 12. THE APPLICANT HAS RECEIVED THE FOLLOWING NJDEP PERMITS FOR THE ON-GOING REMEDIATION WORK FOR PARCEL "C": | PIPE TO PROPOSED GRADE EXCEPT WHERE SHALLOWER DEPTHS ARE PERMITTED BY THE | |
| WATERFRONT DEVELOPMENT IN-WATER INDIVIDUAL PERMIT AND FLOOD HAZARD AREA INDIVIDUAL PERMIT; #1219-04-0005.4, WFD170001 AND FHA 170001 DATED SEPTEMBER 22, 2010 (EXTENDED TO 9/21/20). COASTAL ZONE MANAGEMENT GENERAL PERMIT #11 AND WATER QUALITY CERTIFICATE 1219-04-0005.4 C2M 180001 2/25/19 FRESHWATER WETLAND GP4; 1219-04-0005.4 FWW 180001 9/4/18. | AN ONSITE PUMP STATION, WHICH IN TURN IS CONNECTED BY A GRAVITT SEWER CONNECTION TO AN ONSITE PUMP STATION, WHICH IN TURN IS CONNECTED BY A FORCE MAIN DIRECTLY TO THE MIDDLESEX COUNTY UTILITY AUTHORITY TREATMENT PLANT. ONSITE GRAVITY SEWER PIPE MATERIAL SHALL BE PVC SDR-35, FOR DEPTHS LESS THAN 20 FEET AND SDR-26 FOR PIPES DEEPER THAN 20 FEET. THE FORCE MAIN SHALL BE PVC SDR-21. SEWER LINES, LATERALS, SHALL BE INSTALLED TO PROVIDE A MINIMUM 3 FEET OF COVER FROM THE TOP OF PIPE TO PROPOSED GRADE EXCEPT WHERE SHALLOWER DEPTHS ARE PERMITTED BY THE MUNICIPALITY OR UTILITY AUTHORITY. GRAVITY SEWER PIPE TO BE CONSTRUCTED | |
| NATIONWIDE PERMIT NOS. 38 AND 7 HAVE BEEN ISSUED BY THE ARMY CORPS FOR THE ON-GOING REMEDIATION WORK. A SOIL CONSERVATION DISTRICT REFERENCE NUMBER #0019-0091 AND RFA NJG0185825 HAVE BEEN ISSUED FOR THE ON-GOING REMEDIATION WORK. GENERAL PERMIT #4, 1219-10-0003.2 FWW 130001 ISSUED 5/8/2013. | IN ACCORDANCE WITH PIPE MATERIAL SPECIFICATIONS OUTLINED IN N.J.A.C. 5:21-6.2(C)6. SANITARY SEWER FORCE MAIN TO BE PVC PIPE IN ACCORDANCE WITH ASTM D1785, ASTM D2241 OR AWWA C909 INSTALLED WITH METALLIC LOCATOR TAPE IN TRENCH. 35. ALL WATER MAINS AND SANITARY SEWER LINES SHALL BE SEPARATED BY A HORIZONTAL | |

13. THE APPLICANT HAS OBTAINED DAM PERMIT NO. 1601 FROM THE NJDEP DIVISION OF DAM SAFETY AND FLOOD ENGINEERING, DATED MARCH 9, 2021, FOR CONSTRUCTION OF THE PROPOSED CLASS III DAM / WET POND.

ARMY CORP OF ENGINEERS JURISDICTIONAL DETERMINATION NAN-2011-01356-ESP

- 14. THE FOLLOWING PERMITS ARE REQUIRED FOR THE PROPOSED DEVELOPMENT:
- BOROUGH OF SAYREVILLE PLANNING BOARD MIDDLESEX COUNTY PLANNING BOARD
- NJDEP DIVISION OF WATER QUALITY RFA NIDEP BUREAU OF SAFE DRINKING WATER PERMIT
- NJDEP TREATMENT WORKS APPROVAL
- ENVIRONMENTAL PROTECTION. AT CROSSINGS OF SEWER LINES AND WATER MAINS, THE TOP OF THE SEWER LINES SHALL BE AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN (SEWER SERVICE LATERALS ARE NOT SUBJECT TO THIS REQUIREMENT). IF SUCH VERTICAL SEPARATION IS NOT POSSIBLE, THE SEWER LINE SHALL BE OF

DISTANCE OF 10 FEET. IF SUCH LATERAL SEPARATION IS NOT POSSIBLE, THE WATER AND

SEWER LINES SHALL BE IN SEPARATE TRENCHES (STEP TRENCHES ARE PROHIBITED) WITH THE TOP OF THE SEWER LINE AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN OR WITH SUCH SEPARATION EXPRESSLY APPROVED BY THE DEPARTMENT OF

WATERTIGHT CONSTRUCTION (THAT IS DUCTILE IRON PIPE WITH MECHANICAL RESTRAINT IOINTS), WITH WATERTIGHT IOINTS THAT ARE A MINIMUM OF 10 FEET FROM THE WATER MAIN. CONTRACTOR SHALL USE TRANSITION COUPLING, POWERSEAL MODEL #3501-8AAB OR EQUIVALENT AT DIP/PVC JOINTS.

DATED 1/31/2013.

| MATERIALS, WORKMANSHIP, AND CONSTRUCTION FOR THE SITE IMPROVEMENTS SHOWN HEREON SHALL BE IN ACCORDANCE WITH: |
|--|
| A. NEW JERSEY DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", 2007; 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 SPECIFICATIONS, STANDARDS, AND REQUIREMENTS |
| CABLE, TELEPHONE, ELECTRIC, AND GAS LINES SHALL BE INSTALLED UNDERGROUND. |
| TRAFFIC SIGNAGE AND STRIPING SHALL CORRESPOND TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. LONGITUDINAL TRAFFIC STRIPING WITHIN ROADWAY TO BE THERMOPLASTIC. |
| THE CONTRACTOR IS RESPONSIBLE FOR PROJECT SAFETY, INCLUDING PROVISION OF ALL APPROPRIATE SAFETY DEVICES AND TRAINING REQUIRED. THE SITE HAS DOCUMENTED RADIOACTIVE MATERIAL AND CONTAMINATED SURFACE AND SUBSURFACE SOIL. |
| EARTHWORK ACTIVITIES WILL BE LIMITED BY THE MATERIALS ENCOUNTERED WHICH MAY RESULT IN INCREASED HANDLING COSTS AND QUANTITY OF IMPORTED FILL MATERIALS IN LIEU OF REUSING EXCAVATED SITE MATERIALS. SUBSURFACE EXPLORATIONS SHOULD BE PERFORMED TO BETTER QUANTIFY THE REUSABILITY OF ONSITE EXCAVATED MATERIALS. |
| PURSUANT TO THE "ONE CALL" LAW, CONTRACTOR SHALL CALL 1-800-272-1000 OR 811 PRIOR TO ANY EXCAVATION TO REQUEST A MARKOUT OF UNDERGROUND UTILITIES. |
| MANY FACTORS WILL AFFECT THE FINAL EARTHWORK RESULTS. THESE FACTORS MAY INCLUDE BUT ARE NOT LIMITED TO, WEATHER CONDITIONS DURING CONSTRUCTION, EARTH MOVING EQUIPMENT USED, EXPERIENCE OF EQUIPMENT OPERATORS, COMPACTION ACCURACY, PRIOR DISTURBANCE FROM REMEDIATION ACTIVITIES, ASSUMPTIONS REGARDING EXISTING TOPOGRAPHY, VARIABLE SHRINK/SWELL CHARACTERISTICS, ETC. |
| ALL SIGNAGE AND STRIPING OF FIRE ZONES SHALL BE APPROVED BY THE BOROUGH FIRE OFFICIAL. |
| ALL GRADING WITHIN LAWN AREAS SHALL BE A MINIMUM OF 2% AND A MAXIMUM OF 3 FT HORIZONTALLY TO I FT VERTICALLY AND AWAY FROM ALL PROPOSED AND EXISTING BUILDINGS. |
| ALL GRADING WITHIN PAVED AREAS SHALL BE A MINIMUM OF 0.75%. |
| ALL SANITARY SEWER LATERAL PIPES SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH BOROUGH STANDARDS AND REQUIREMENTS. |
| grease traps shall be provided for individual tenants / uses as required by The Borough, sewerage authority and/or building code. |
| ALL WATER DISTRIBUTION SYSTEM IMPROVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE WATER UTILITY AND THE PLUMBING SUBCODE OFFICIAL. |
| ALL WATER MAINS SHALL BE INSTALLED, DISINFECTED AND TESTED IN ACCORDANCE WITH BOROUGH STANDARDS AND REQUIREMENTS. |
| THE INSTALLATION OF ALL WATER METERS SHALL BE REVIEWED AND APPROVED BY THE BOROUGH WATER DEPARTMENT. |
| |

. RADIOLOGICAL 51. ALL WATER MAIN FITTINGS SHALL BE MECHANICAL JOINT AND UTILIZE TWO MEANS OF GE, SULFUR AND RESTRAINT. TING, INC. AND 52.IF REQUIRED, STRUCTURAL CALCULATIONS SHALL BE PROVIDED FOR REVIEW AND

APPROVAL BY THE BOROUGH ENGINEER FOR ANY OVERSIZED DRAINAGE STRUCTURES. 53. ALL SITE IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE BOROUGH OF SAYREVILLE

CONSTRUCTION STANDARDS UNLESS OTHERWISE NOTED. 54. ALL FIRE LANES AND STRIPING SHALL BE APPROVED BY THE BOROUGH FIRE OFFICIAL.

55."A STORMWATER MAINTENANCE AGREEMENT WILL BE FILED WHICH SETS FORTH DOCUMENTATION THAT ANY PROPOSED DRAINAGE SYSTEM AND ANY AND ALL STORMWATER (DRAINAGE SWALE/DETENTION/RETENTION/RECHARGE FACILITIES) WILL BE ADEQUATELY MAINTAINED IN ACCORDANCE WITH THE STANDARDS OF MIDDLESEX COUNTY. REFER TO THE PARAGRAPH IN THE STORMWATER MAINTENANCE AGREEMENT ENTITLED 'RIGHT OF COUNTY OF MIDDLESEX TO MAINTAIN DRAINAGE BASINS CONDITIONS THAT AFFECT NON-COUNTY FACILITIES SHOULD BE REVIEWED AND

56. ANY IMPROVEMENTS ON BLOCK 257, LOT 3.06 WILL REQUIRE APPROVAL OF A STORMWATER MANAGEMENT PLAN FOR THE PROPERTY. 57. THESE GENERAL NOTES SHALL APPLY TO ALL SHEETS.

ADA INSTRUCTIONS TO CONTRACTOR: THE DESIGN OF ALL PROPOSED CURB RAMPS, SIDEWALKS, AND CROSSWALKS SHALL

APPROVED BY THE APPROPRIATE JURISDICTIONAL AGENCY."

MEET THE LATEST ADA REQUIREMENTS. CONTRACTOR SHALL EXERCISE APPROPRIATE CARE AND PRECISION IN CONSTRUCTION OF ADA (HANDICAPPED) ACCESSIBLE COMPONENTS FOR THE SITE. THESE COMPONENTS, AS CONSTRUCTED, MUST COMPLY WITH THE LATEST ADA STANDARDS FOR ACCESSIBLE DESIGN. FINISHED SURFACES ALONG THE ACCESSIBLE ROUTE OF TRAVEL FROM PARKING SPACE, PUBLIC TRANSPORTATION, PEDESTRIAN ACCESS, INTER-BUILDING ACCESS, TO POINTS OF ACCESSIBLE BUILDING ENTRANCE/EGRESS, SHALL COMPLY WITH THESE ADA CODE REQUIREMENTS. THESE INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

(NOTE: THIS LIST IS NOT INTENDED TO CAPTURE EVERY APPLICABLE FEDERAL, STATE AND LOCAL RULE AND REGULATION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE LAW, WHETHER OR NOT STATED SPECIFICALLY HEREIN):

A. PARKING SPACES AND PARKING AISLES - SLOPE SHALL NOT EXCEED 1:48 (1/4" PER FOOT OR NOMINALLY 2.0%) IN ANY DIRECTION.

B. CURB RAMPS- SLOPES SHALL NOT EXCEED 1:12 (8.3%).

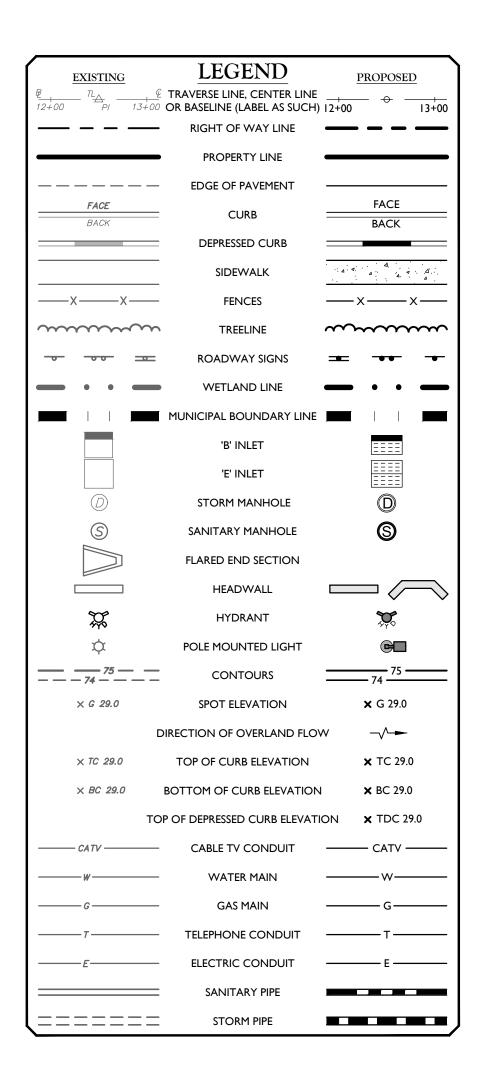
C. LANDINGS -SHALL BE PROVIDED AT EACH END OF RAMPS, SHALL PROVIDE POSITIVE DRAINAGE, AND SHALL NOT EXCEED 1:48 (1/4" PER FOOT OR NOMINALLY 2.0%) IN ANY DIRECTION. D. PATH OF TRAVEL ALONG ACCESSIBLE ROUTE - SHALL PROVIDE A 36 INCH OR

GREATER UNOBSTRUCTED WIDTH OF TRAVEL, (CAR OVERHANGS CANNOT REDUCE THIS MINIMUM WIDTH), THE SLOPE SHALL BE NO GREATER THAN I :20 (5.0%) IN THE DIRECTION OF TRAVEL, AND SHALL NOT EXCEED 1:48 (1/4" PER FOOT OR NOMINALLY 2.0%) IN CROSS SLOPE.

E. WHERE PATH OF TRAVEL WILL BE GREATER THAN 1:20 (5.0%), AN ADA RAMP WITH A MAXIMUM SLOPE OF 1:12 (8.3%), FOR A MAXIMUM DISTANCE OF 30 FEET, SHALL BE PROVIDED. THE RAMP SHALL HAVE ADA HAND RAILS AND "LEVEL" LANDINGS ON EACH END THAT ARE SLOPED NO MORE THAN 1:48 (1/4" PER FOOT OR NOMINALLY 2.0%) FOR POSITIVE DRAINAGE.

F. DOORWAYS - SHALL HAVE A "LEVEL" LANDING AREA ON THE EXTERIOR SIDE OF THE DOOR THAT IS SLOPED NO MORE THAN 1:48 (1/4" PER FOOT OR NORMALLY 2.0%) FOR POSITIVE DRAINAGE. THIS LANDING AREA SHALL BE NO LESS THAN 60 INCHES (5 FEET) LONG, EXCEPT WHERE OTHER WISE PERMITTED BY ADA STANDARDS FOR ALTERNATIVE DOORWAY OPENING CONDITIONS (SEE APPLICABLE CODE SECTIONS).

. IT IS RECOMMENDED THAT THE CONTRACTOR REVIEW THE INTENDED CONSTRUCTION WITH THE LOCAL BUILDING CODE OFFICIAL PRIOR TO COMMENCING WORK.



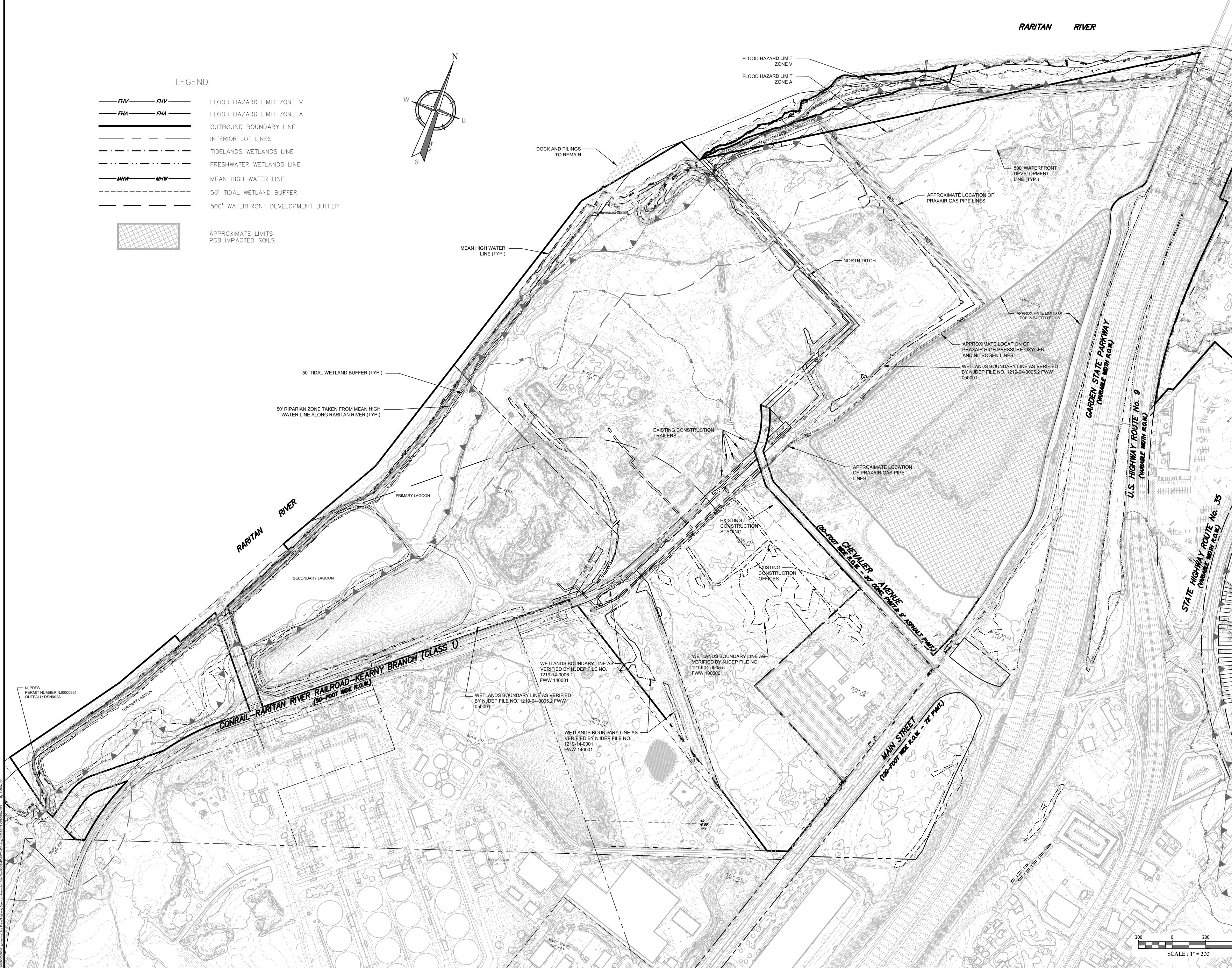
SIGNAL EQUIPMENT LEGEND

| \rightarrow × | TRAFFIC SIGNAL HEAD | | | | | | |
|------------------|-------------------------|--|--|--|--|--|--|
| | PEDESTRIAN SIGNAL HEAD | | | | | | |
| | signal foundation | | | | | | |
| XX' | TRAFFIC SIGNAL MAST ARM | | | | | | |
| I | IMAGE DETECTOR | | | | | | |
| F | PEDESTRIAN PUSH BUTTON | | | | | | |
| , , , | MAST ARM MOUNTED SIGN | | | | | | |
| • | TRAFFIC SIGN | | | | | | |
| | CONTROLLER | | | | | | |

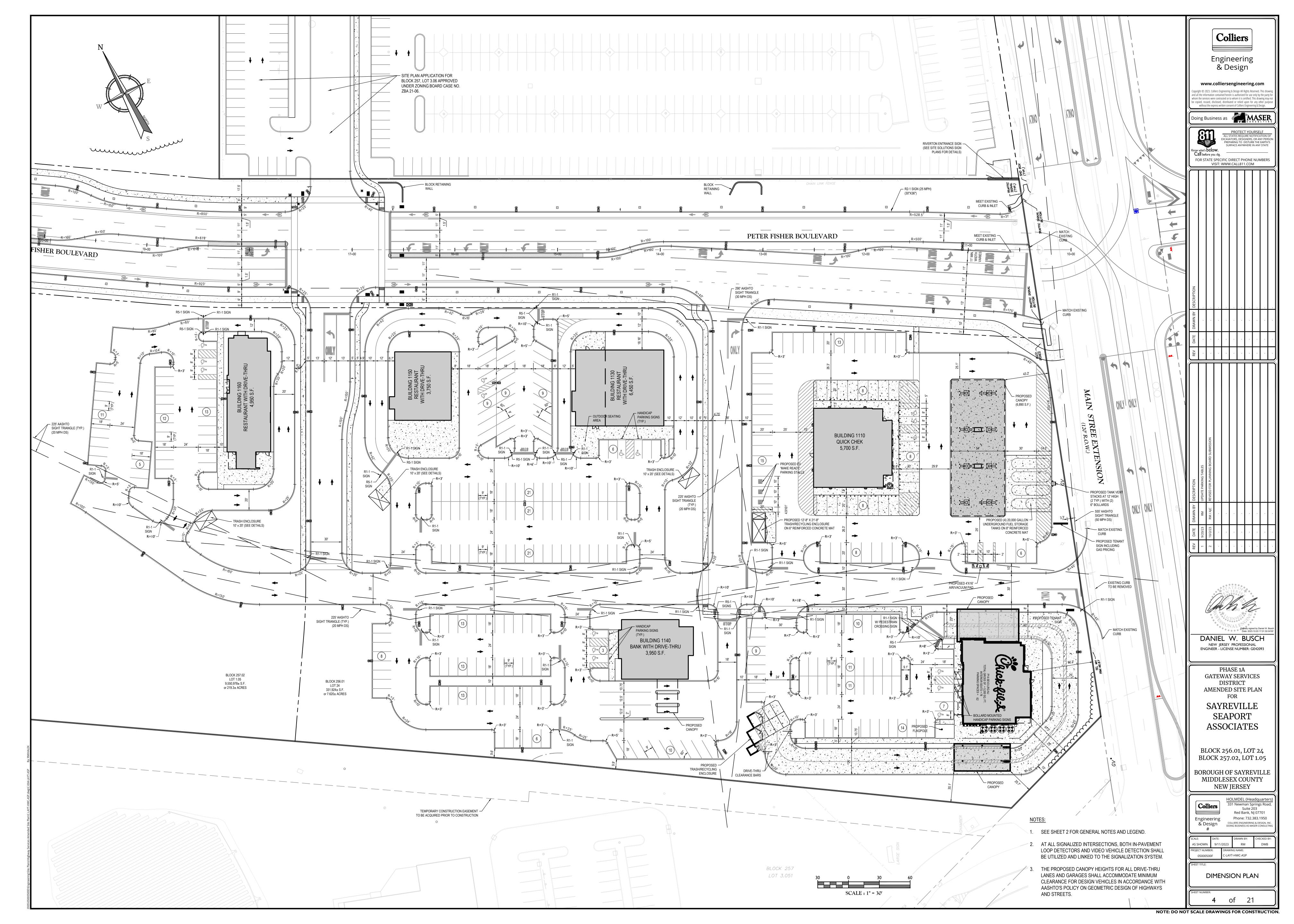


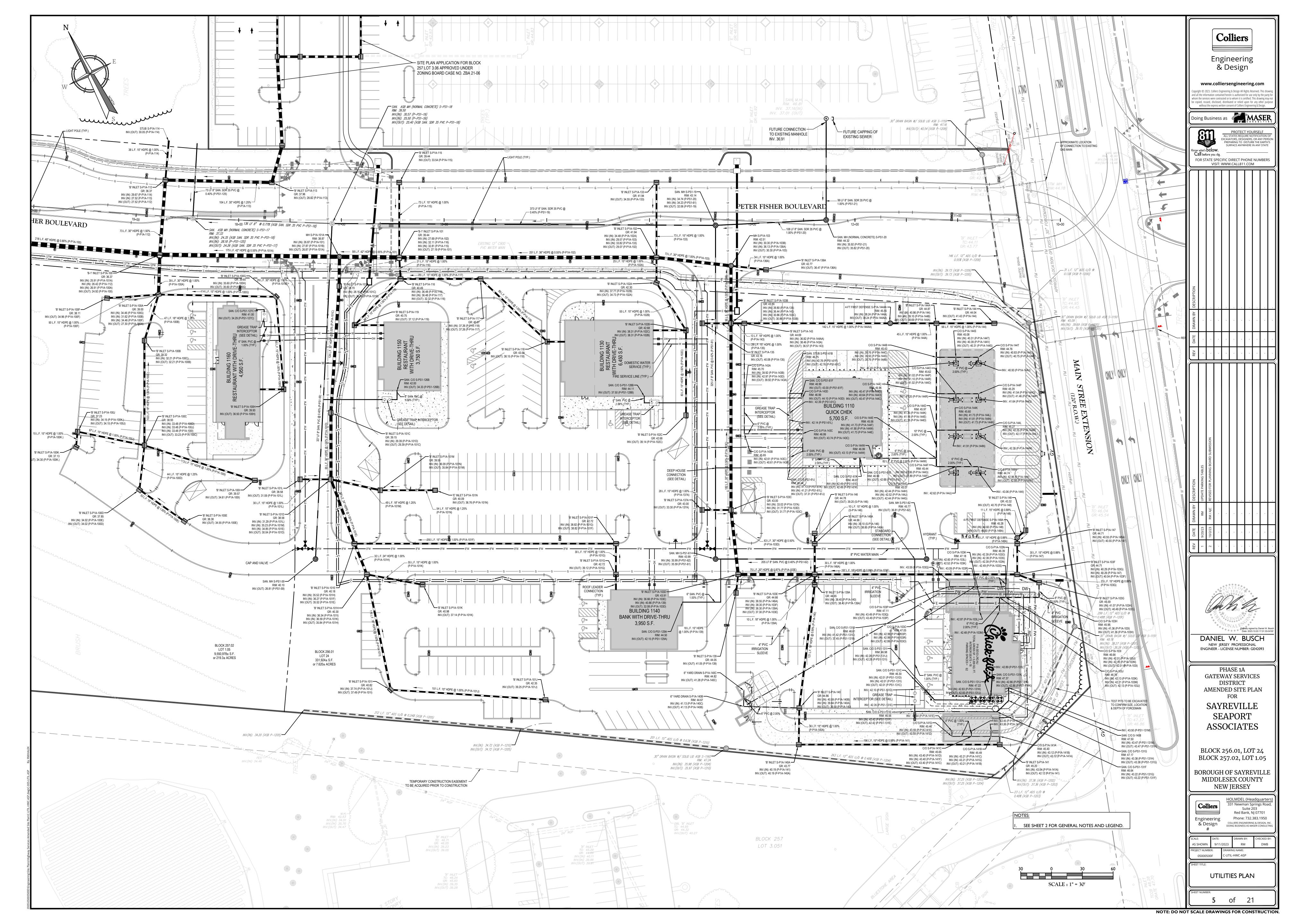
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| DATE DRAWN BY DESCRIPTION | 9/20/23 RM UPDATE PARKING TABLES | 10/2/23 RM / AJC REVISED FOR PLANNING BOARD SUBMISSION | | | | | | | | · · · |
| Image: Constraint of the second se | | | | | | | | | | |
| PHASE 1A GATEWAY SERVICES DISTRICT AMENDED SITE PLAN FOR SAYREVILLE SEAPORT ASSOCIATES BLOCK 256.01, LOT 24 BLOCK 257.02, LOT 1.05 BOROUGH OF SAYREVILLE MIDDLESEX COUNTY | | | | | | | | | | |
| EI SCALE AS S PROJEC | ngin & D | MBER: 500F | rs ing | 2023 DRAV | OLN 31 N Re Ph OLLIER DING BU | IDEL ewm Si ed Ba ione: s engli sines: JSINES: AWN E | (Hean Spuite 2 ink, N 732. NEERIN S AS M | oring 203 NJ 077 383.1 IG & DE ASER CO | | NC. TING BY: |
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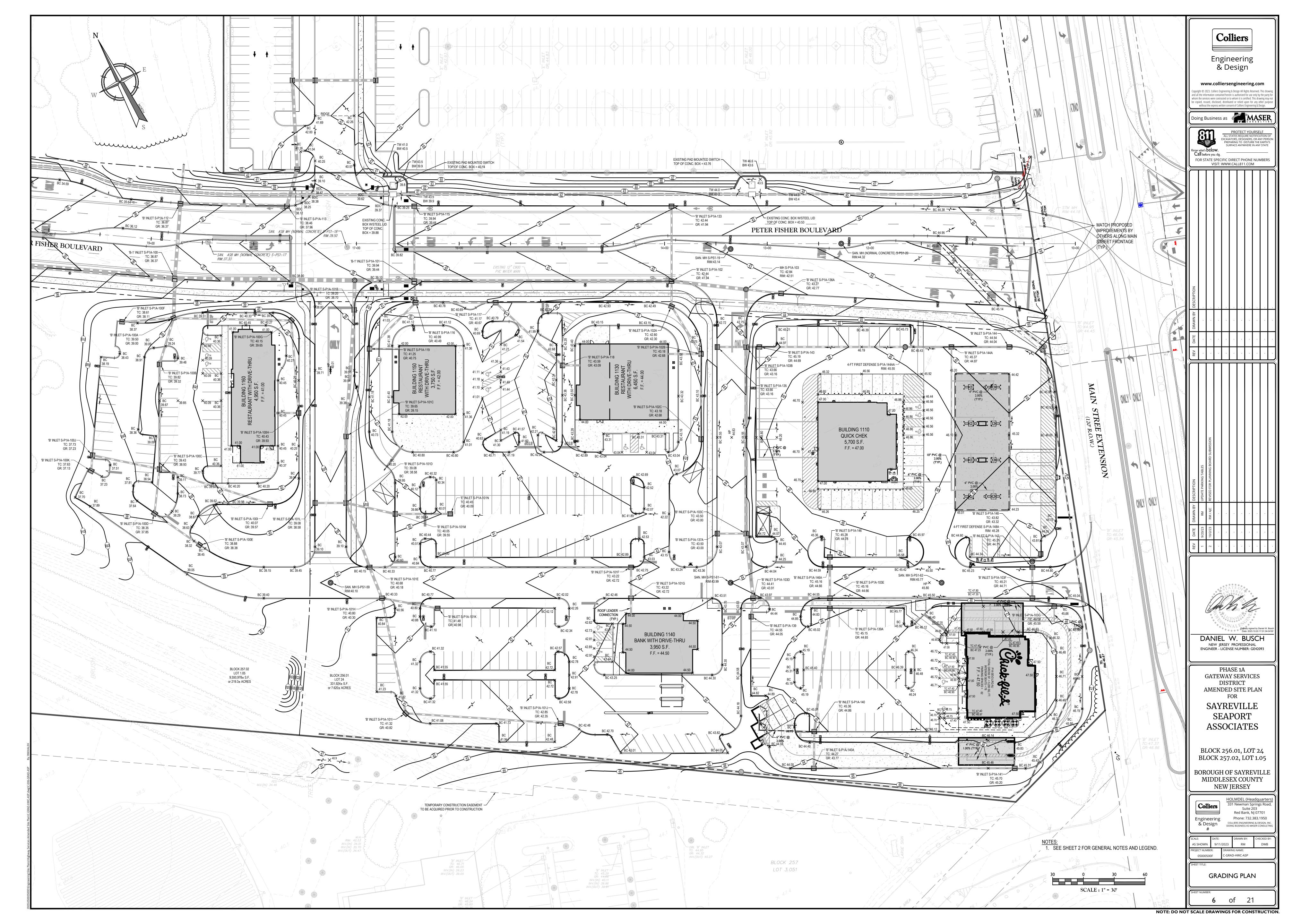
| FHV | FHV | FLOOD HAZARD LIMIT ZONE V |
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| FHA | FHA | FLOOD HAZARD LIMIT ZONE A |
| | | OUTBOUND BOUNDARY LINE |
| | | INTERIOR LOT LINES |
| _ · · · | · · · | TIDELANDS WETLANDS LINE |
| | | FRESHWATER WETLANDS LINE |
| <i>MHW</i> | MHW | MEAN HIGH WATER LINE |
| | | 50' TIDAL WETLAND BUFFER |
| | | 500' WATERFRONT DEVELOPMENT BUFFER |
| | | APPROXIMATE LIMITS |



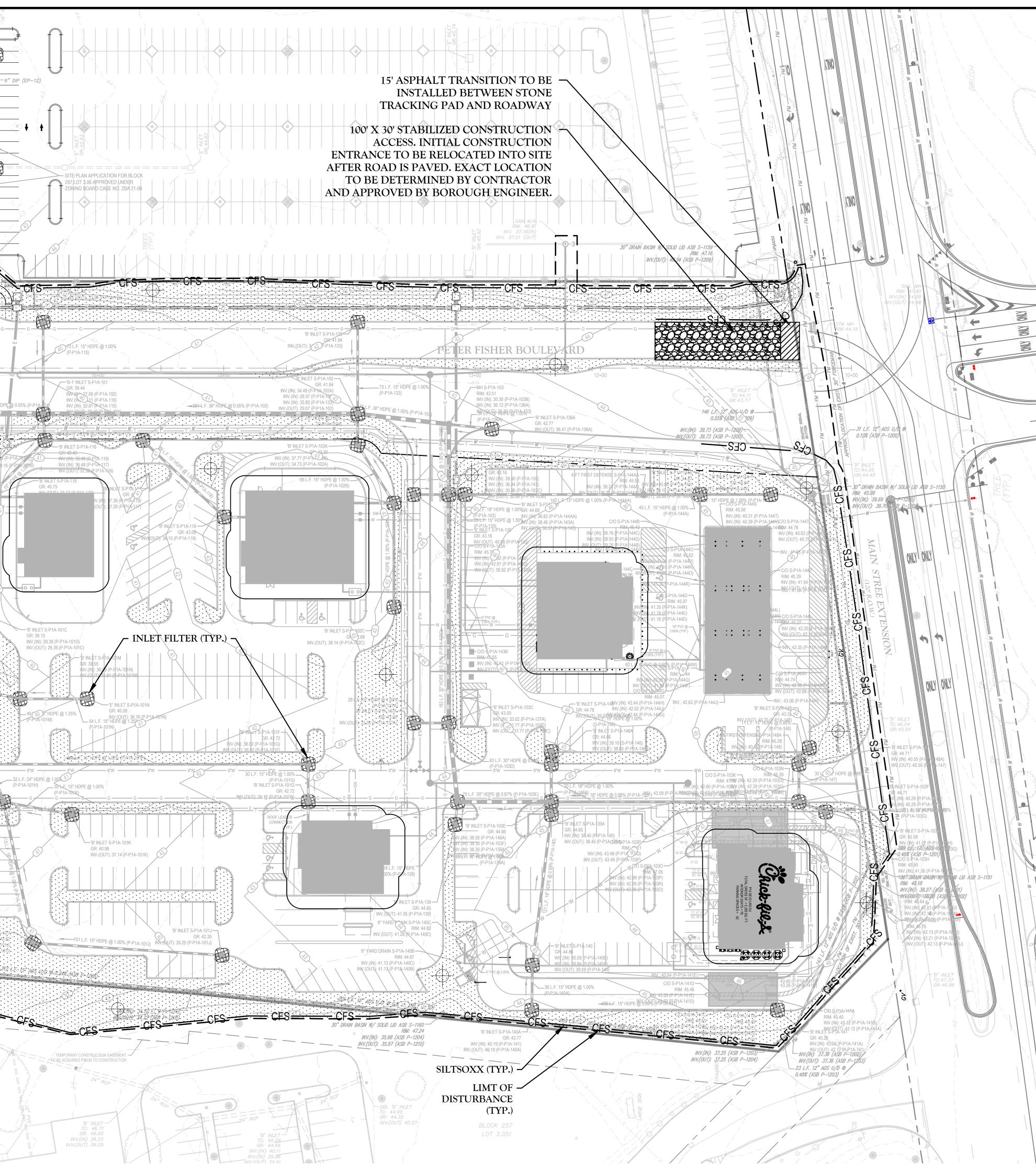
| | Colliers Engineering & Design | | | | | | | | | | | |
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| | www.colliersengineering.com Copyright © 2023. Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contracted or to whom it is certified. This drawing may not be copied, reused, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design. Doing Business as | | | | | | | | | | | |
| | | PROTECT YOURSELF ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PROTECT YOURSELF ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM | | | | | | | | SON I'S E | | |
| P 165 B-165 H 40 H 40 | | | | | | | | | | | | |
| | REV DATE DRAWN BY DESCRIPTION | | | | | | | | | | | |
| | DESCRIPTION | UPDATE PARKING TABLES | REVISED FOR PLANNING BOARD SUBMISSION | | | | | | | | | |
| | REV DATE DRAWN BY | 1 9/20/23 RM | 2 10/2/23 RM / AJC | · · · · | · · · · · | · · · · | · · · · · · · · · · · · · · · · · · · | · · · | · · · · · | • | · · | |
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| | PHASE 1A GATEWAY SERVICES DISTRICT AMENDED SITE PLAN FOR SAYREVILLE SEAPORT ASSOCIATES | | | | | | | | | | | |
| | В | BLOCK 256.01, LOT 24 BLOCK 257.02, LOT 1.05 BOROUGH OF SAYREVILLE MIDDLESEX COUNTY NEW JERSEY HOLMDEL (Headquarters) 331 Newman Springs Road, Suiro 202 | | | | | | | | | | |
| | SCALE AS S PROJE | & D : HOW 05000 | N MBER: 500F | | 2023 DRAV | | ed Ba none: s ENGII JSINES: AWN E RM | 732. NEERIN S AS M/ BY: | NJ 077 383.1 IG & DE ASER CO | | TING BY: | |
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IR S-P1A-11 NV.(OUT): 25.66 (P-P1A-111) -'B' INI FT S-P1A-11 INV.(IN): 25.42 (P-P1A .86 L.F. 18" HOPE @ 1.00% GR: 36.37 GR: 37.96 🛛 V (IN) 29 67 (P-P1A-114) 104 L.F. 30" HDPE @ 125 INV.(OUT): 28.82 (P-PIA-113) VV.(IN): 27.52 (P-P1A-113 TT: 21-52 (P.P.1A-11) PETER FISHER BOULEVARD L.F. 30" HDPE @ 1.509 218 L.F. 48" HDPEY RIM: 38 INV.(IN): 26.87 (P-P1A-AINV:(IN): 27.87 (P-P1A-10) PESE **STAGIN** ·(·|·)· 'B' INLET S INV.(OUT): 34.30 CAP AND VALVE -SEE APPROVED PLANS ENTITLED — **"REMEDIATION STAGING AREA** GR: 40.18 5 52 (P-P1A-101H) PLAN FOR RIVERTON" PREPARED): \$5.62 (PFR1A-14, ^)/H -BY MASER CONSULTING P.A. DATED 4/26/2019 AND REVISED -CFC THRU 5/13/2021 FOR SOIL EROSION AND SEDIMENT CONTROL MEASURES IN THIS AREA. INV.(IN): 34.20 (ASB P-1205) **TEMPORARY CONSTRUCTION** EASEMENT TO BE ACQUIRED PRIOR TO CONSTRUCTION



| |
|---|
| LEGEND |
| SOIL COMPACTION TESTING AREAS |
| RECOMMENDED SOIL COMPACTION TEST LOCATIONS |
| |

SOIL COMPACTION ANALYSIS AREA = 39.3 ACRES

PURPOSES ONLY.

NOTES

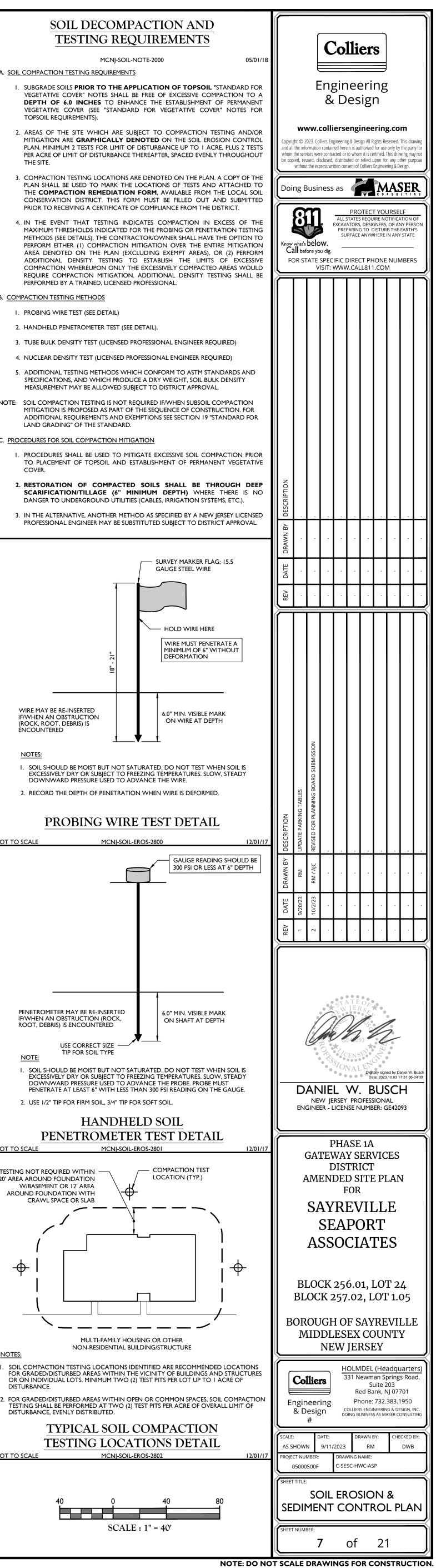
- THE LIMIT OF DISTURBANCE, SOIL COMPACTING TESTING AREAS, AND SOIL EROSION AND SEDIMENT CONTROL (SESC) MEASURES SHOWN HEREON WERE ORIGINALLY APPROVED AS PART OF THE RIVERTON VILLAGE PHASE I SITE PLAN APPLICATION (SOIL EROSION AND SEDIMENT CONTROL PLANS PREPARED BY MASER CONSULTING P.A. DATED MAY 15, 2019 AND REVISED THROUGH JULY 2, 2021). AS SUCH, SOME SESC MEASURES HAVE ALREADY BEEN IMPLEMENTED AND/OR ARE ONGOING. SOME MEASURES WILL BE IMPLEMENTED IN THE FUTURE. THE SUBJECT GATEWAY SERVICES DISTRICT IS LOCATED WITHIN THE AREA COVERED UNDER THE PRIOR SOIL EROSION AND SEDIMENT CONTROL (SESC) APPROVAL ISSUED FOR RIVERTON VILLAGE PHASE I. ONGOING AND NECESSARY ADDITIONAL SESC MEASURES ASSOCIATED WITH THE GATEWAY SERVICES DISTRICT SHALL BE PERFORMED IN COMPLIANCE WITH THE RIVERTON VILLAGE PHASE I SESC APPROVAL AND AS AMENDED HEREON.
- 2. THE LIMIT OF DISTURBANCE AND SOIL COMPACTING TESTING AREAS IDENTIFIED HEREON ENCOMPASS ALL AREAS SUBJECT OF THE RIVERTON VILLAGE PHASE I SESC APPROVAL, NOT JUST THE GATEWAY SERVICES DISTRICT.
- 3. A SOIL COMPACTION MITIGATION VERIFICATION FORM MUST BE FILLED OUT COMPLETELY AND SUBMITTED TO THE BOROUGH ENGINEER OFFICE PRIOR TO FINAL INSPECTION AND ISSUANCE OF A COMPLIANCE REPORT.
- 4. SEE SHEET 2 FOR GENERAL NOTES AND PLAN LEGEND.

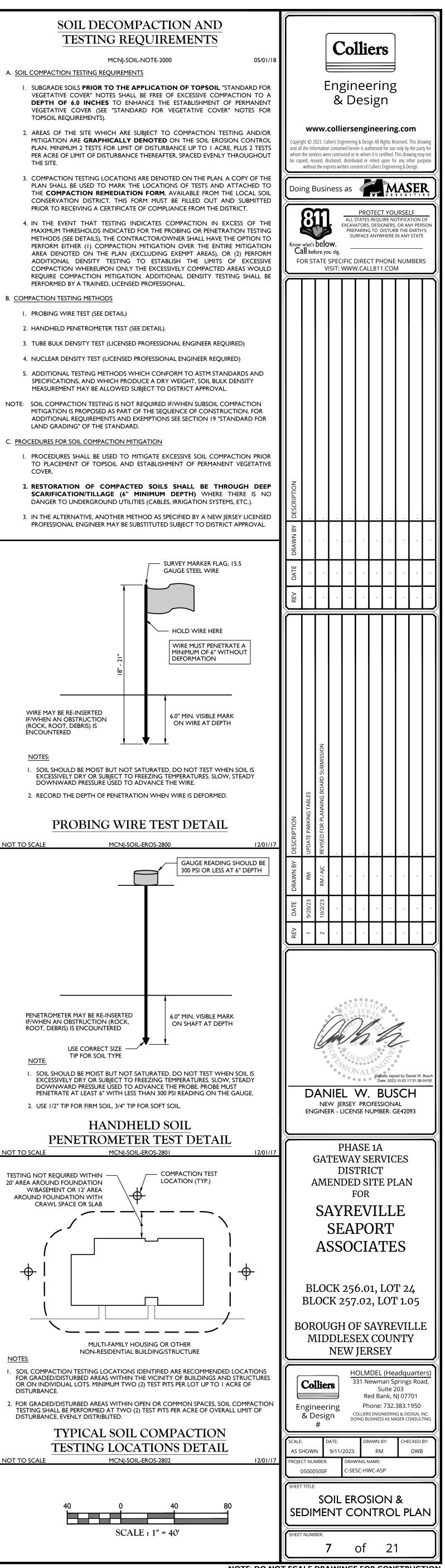
TOTAL AREA OF DISTURBANCE = $4,165,451 \pm S.F.$ (95.63 ACRES) THIS PLAN IS FOR SOIL EROSION AND SEDIMENT CONTROL

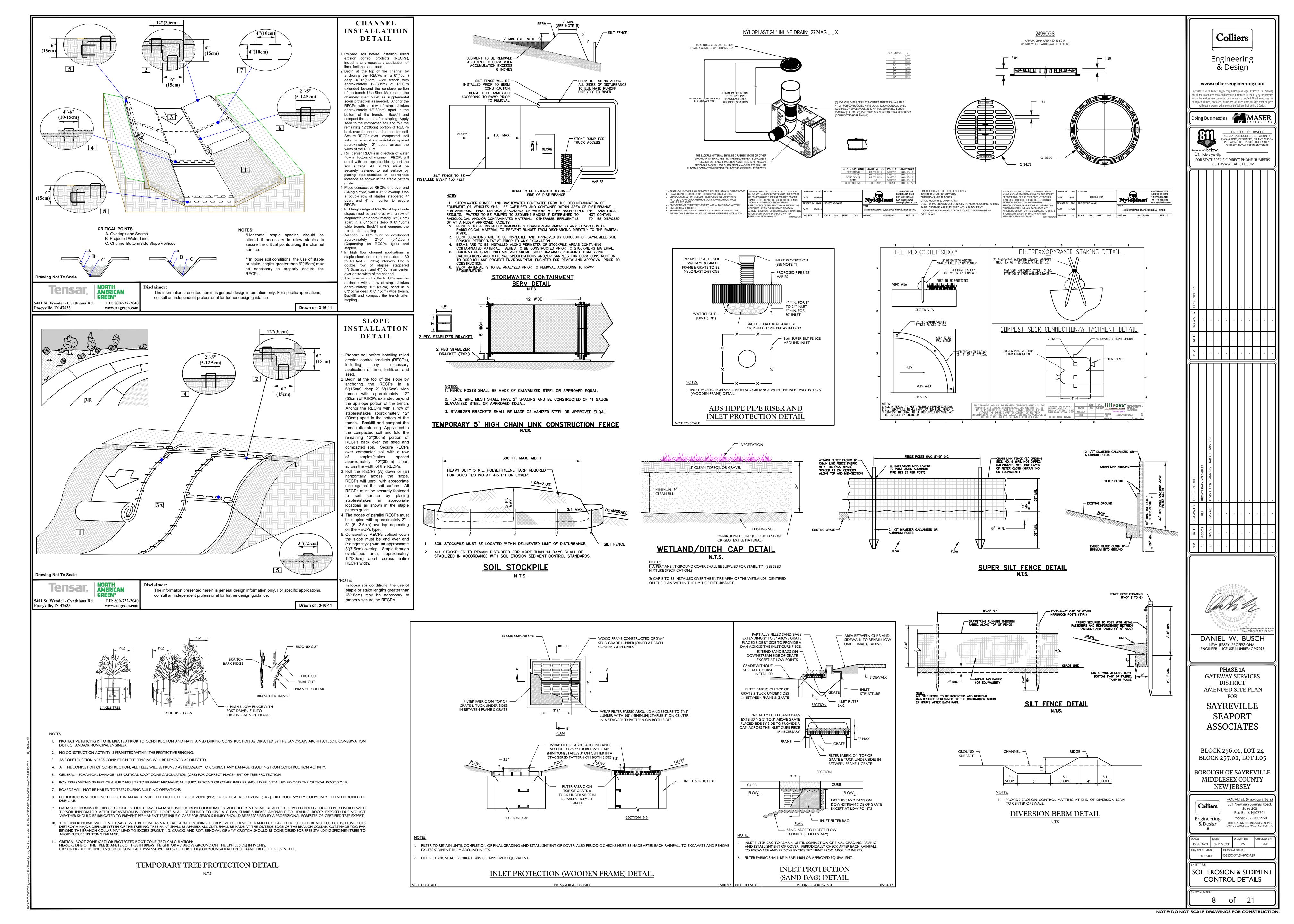
TESTING REQUIREMENTS

- PERFORMED BY A TRAINED, LICENSED PROFESSIONAL.

- LAND GRADING" OF THE STANDARD.
- COVER







BOROUGH SOIL CONSERVATION STABILIZATION WITH MULCH ONLY COM DISTRICT NOTES POLLU MOD: 04/02/18 MCNJ-SOIL-NOTE-1005 MCNJ-SOIL-NOTE-1301 05/01/1 05/01/1 I. SITE PREPARATION THE CONSTRU THE BOROUGH OF SAYREVILLE SHALL BE NOTIFIED FORTY-EIGHT (48) HOURS IN THE REOUIRE ADVANCE OF ANY SOIL DISTURBING ACTIVITY. ON MARCH 3 A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL OR AFTER MA ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR EOUIPMENT FOR SEEDBED PREPARATION SEEDING. MULCH APPLICATION. AND SUBMITTED OF TO SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH AUTHORIZAT PERMANENT PROTECTION IS ESTABLISHED. STANDARDS FOR LAND GRADING. THESE REQUIR ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS WILL B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS MATERIAL MA DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS FERTILIZERS. MEASURES, SEDIMENT BASINS, AND WATERWAYS, SEE STANDARDS 11 THROUGH 42 TO THE BOROUGH FOR RE-CERTIFICATION. THE REVISED PLANS MUST MEET ALL PAINT THIN CURRENT STATE SOIL EROSION AND SEDIMENT CONTROL STANDARDS. ADDITIVES, AN 2. PROTECTIVE MATERIALS IN A DRY COV N.J.S.A 4:24-39 ET. SEQ. REQUIRES THAT NO CERTIFICATES OF OCCUPANCY BE ISSUED AND METHON BEFORE THE BOROUGH DETERMINES THAT A PROJECT OR PORTION THEREOF IS IN FULL PREVENT OR A. UNROTTEN SMALL-GRAIN STRAW, AT 2.0 TO 2.5 TONS PER ACRE, IS SPREAD COMPLIANCE WITH THE CERTIFIED PLAN AND STANDARDS FOR SOIL FROSION AND STORMWATER UNIFORMLY AT 90 TO 115 POUNDS PER 1,000 SQUARE FEET AND ANCHORED WITH A SEDIMENT CONTROL IN NEW IERSEY AND A REPORT OF COMPLIANCE HAS BEEN ISSUED DOES NOT AF MULCH ANCHORING TOOL, LIQUID MULCH BINDERS, OR NETTING TIE DOWN. UPON WRITTEN REQUEST FROM THE APPLICANT. THE BOROUGH MAY ISSUE A REPORT OR OTHER MA OTHER SUITABLE MATERIALS MAY BE USED IF APPROVED BY THE SOIL CONSERVATION OF COMPLIANCE WITH CONDITIONS ON A LOT-BY-LOT OR SECTION-BY-SECTION BASIS. COMPONENT DISTRICT. THE APPROVED RATES ABOVE HAVE BEEN MET WHEN THE MULCH COVERS PROVIDED THAT THE PROJECT OR PORTION THEREOF IS IN SATISFACTORY THE GROUND COMPLETELY UPON VISUAL INSPECTION, I.E. THE SOIL CANNOT BE COMPLIANCE WITH THE SEQUENCE OF DEVELOPMENT AND TEMPORARY MEASURES FOR WASTE HAND SEEN BELOW THE MULCH. SOIL EROSION AND SEDIMENT CONTROL HAVE BEEN IMPLEMENTED, INCLUDING SITE WASTE PROVISIONS FOR STABILIZATION AND SITE WORK. DISCHARGE A B. SYNTHETIC OR ORGANIC SOIL STABILIZERS MAY BE USED UNDER SUITABLE SITE OF WAS CONDITIONS AND IN QUANTITIES AS RECOMMENDED BY THE MANUFACTURER. WASTES, INC ANY STOCKPILE OR DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN CONFORM W FOURTEEN (14) DAYS. AND NOT SUBJECT TO CONSTRUCTION TRAFFIC. WILL C. WOOD-FIBER OR PAPER-FIBER MULCH HYDROSEEDER IN QUANTITIES/APPLICATION AND ITS IMPL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE RATES AS RECOMMENDED BY MANUFACTURER. PESTICIDE CC ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED 13:1E-99.3): AN WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF 2 TO 2 1/2 TONS PER ACRE, D. MULCH NETTING, SUCH AS PAPER JUTE, EXCELSIOR, COTTON, OR PLASTIC, MAY BE WHERE SUCH ACCORDING TO THE STANDARD FOR STABILIZATION WITH MULCH ONLY. AUTHORIZED DESIGNATED \ IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL ADEQUATE NU E. WOODCHIPS APPLIED UNIFORMLY TO A MINIMUM DEPTH OF 2 INCHES MAY BE USED. AREAS SUBJECT TO EROSION (I.E. SOIL STOCKPILES, STEEP SLOPES AND ROADWAY SHALL BE COL WOODCHIPS WILL NOT BE USED ON AREAS WHERE FLOWING WATER COULD WASH EMBANKMENTS) WILL RECEIVE TEMPORARY SEEDING IN COMBINATION WITH STRAW AT SUCH CON THEM INTO AN INLET AND PLUG IT. MULCH OR A SUITABLE EQUIVALENT, AND A MULCH ANCHOR, IN ACCORDANCE WITH STATE STANDARDS. A. CONSTRUC 3. MULCH ANCHORING - SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING PLACEMENT OF HAY OR STRAW MULCH TO MINIMIZE LOSS BY WIND OR WATER. "CONSTRU THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON AND INSTALLATION OF IMPROVEMENTS TO STABILIZE STREETS, ROADS, DRIVEWAYS, FOLLOWS: THE SIZE OF THE AREA AND STEEPNESS OF THE SLOPES. AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT. THE SUB-BASE SHALL CONSTRUC BE INSTALLED WITHIN FIFTEEN (15) DAYS OF THE PRELIMINARY GRADING. HOUSES. A. PEG AND TWINE - DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF FOLLOWIN THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE WASTE: TR THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A PAD OF CLEAN CRUSHED STONE AT POINTS WHERE TRAFFIC WILL BE ACCESSING OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING BRUSH: CO TWINE BETWEEN PEGS IN A CRISS-CROSS AND A SQUARE PATTERN. SECURE TWINE WALLBOA THE CONSTRUCTION SITE, AFTER INTERIOR ROADWAYS ARE PAVED, INDIVIDUAL LOTS AROUND EACH PEG WITH TWO OR MORE ROUND TURNS. MISCELLAN REQUIRE A STABILIZED CONSTRUCTION ACCESS CONSISTING OF ONE INCH TO TWO INCH (1" - 2") STONE FOR A MINIMUM LENGTH OF TEN FEET (10') EQUAL TO THE LOT BUILDING (WINDOW ENTRANCE WIDTH. ALL OTHER ACCESS POINTS SHALL BE BLOCKED OFF. B. MULCH NETTING - STAPLE PAPER, COTTON, OR PLASTIC NETTINGS OVER MULCH. USE INCLUDE O DEGRADABLE NETTING IN AREAS TO BE MOWED. NETTING IS USUALLY AVAILABLE IN ROLLS 4 FEET WIDE AND UP TO 300 FEET LONG. ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF ii. ANY WASTE DISTURBANCE OR ONTO PUBLIC RIGHT-OF-WAYS WILL BE REMOVED IMMEDIATELY. THAT IS HA C. CRIMPER MULCH ANCHORING COULTER TOOL - A TRACTOR-DRAWN IMPLEMENT RULES). PERMANENT VEGETATION IS TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS ESPECIALLY DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL SURFACE THIS PRACTICE AFFORDS MAXIMUM EROSION CONTROL, BUT ITS USE IS LIMITED TO WITHIN TEN (10) DAYS AFTER FINAL GRADING. iii. DISCARDED THE SLOPES UPON WHICH THE TRACTOR CAN OPERATE SAFELY SOIL PENETRATION PETROLEUI SHOULD BE ABOUT 3 TO 4 INCHES. ON A SLOPING LAND, THE OPERATION SHOULD AT THE TIME THAT SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS AND SAND BE ON THE CONTOUR. GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE SURFACES. ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER SHALL BE CALCIUM C D. LIQUID MULCH-BINDERS REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE iv. OTHER "L REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, I. APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND CATCHES THE UNCONSU NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE WHETHER MULCH, IN VALLEYS, AND AT CRESTS OF BANKS. REMAINDER OF AREA SHOULD BE EMPLOYED. NATURAL O UNIFORM IN APPERANCE. BUT NOT L TAB OF AN IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID 2. USE ONE OF THE FOLLOWING: ANY FLAMI PRODUCING SOILS. ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON RUBBISH. SULFIDES SHALL BE ULTIMATELY PLACED OR BURIED WITH LIMESTONE APPLIED AT THE a. ORGANIC AND VEGETABLE BASED BINDERS - NATURALLY OCCURRING, MAGAZINE RATE OF 10 TONS/ACRE, (OR 450 LBS/1,000 SQ FT OF SURFACE AREA) AND COVERED POWDER BASED, HYDROPHILIC MATERIALS THAT MIXED WITH WATER WITH A MINIMUM OF 12" OF SETTLED SOIL WITH A PH OF 5 OR MORE, OR 24" WHERE OR CONS FORMULATES A GEL AND WHEN APPLIED TO MULCH UNDER SATISFACTORY PRIMARY F TREES OR SHRUBS ARE TO BE PLANTED. CURING CONDITIONS WILL FORM MEMBRANE NETWORKS OF INSOLUBLE SAWMILLIN POLYMERS THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS NOT RESULT IN A PHYTO-TOXIC EFFECT OR IMPEDE GROWTH OF TURFGRASS. v. SANITARY PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL. VEGETABLE BASED GELS SHALL BE APPLIED AT RATES AND WEATHER CONDITIONS RECOMMENDED BY THE MANUFACTURER. vi. CONTAMI 4 LINEILTERED DEWATERING IS NOT PERMITTED NECESSARY PRECALITIONS MUST BE FAKEN DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER. b. SYNTHETIC BINDERS - HIGH POLYMERS SYNTHETIC EMULSION, MISCIBLE WITH SUBSTANCE ANY DEWATERING METHODS USED MUST BE IN ACCORDANCE WITH THE STANDARD WATER WHEN DILUTED AND FOLLOWING APPLICATION TO MULCH. DRYING FOR DEWATERING. AND CURING SHALL NO LONGER BE SOLUBLE OR DISPERSIBLE IN WATER. IT B. CONCRETE SHALL BE APPLIED AT RATES AND WEATHER CONDITIONS RECOMMENDED BY DESIGNATE SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF GRASS. WASHING SPRINKLED UNTIL THE SURFACE IS WET. TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED AS REQUIRED BY THE STANDARD FOR DUST i. DESIGNATE DISCHARG CONTROL ii. HARDENED . STOCKPILE AND STAGING LOCATIONS ESTABLISHED IN THE FIELD SHALL BE PLACED REMOVED A WITHIN THE LIMIT OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN. STAGING AND STOCKPILES NOT LOCATED WITHIN THE LIMIT OF DISTURBANCE WILL REQUIRE iii. THE CONC CERTIFICATION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN. INDICATIN CERTIFICATION OF A NEW SOIL EROSION AND SEDIMENT CONTROL PLAN MAY BE REQUIRED FOR THESE ACTIVITIES IF AN AREA GREATER THAN 5,000 SQUARE FEET IS C. SANITARY S DISTURBED. SEPTAGE C DISPOSAL S ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL SPPP REQUIRED INSPECTIONS FOR ALL W EROSION AND SEDIMENT CONTROL NOTE #6. AND REPORTS SPILLS; DISCHA THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF A. SPILL KITS MCNJ-SOIL-NOTE-1201 09/01/ CONSTRUCTION OF THE PROJECT. MATERIALS OF SUCH CLEANED L FREEHOLD SOIL CONSERVATION DISTRICT A COPY OF THE AUTHORIZATION SHALL BE POSTED ONSITE AT A SAFE, PUBLICLY ACCESSIBLE LOCATION IN CLOSE PROXIMITY OF THI 4000 KOZLOSKI ROAD, FREEHOLD, NJ 07728-5033, CONSTRUCTION SITE AT ALL TIMES UNTIL A NOTICE OF COMPLETION HAS B. DISCHARGE PHONE (732) 683-8500, FAX (732) 683-9140, BEEN ISSUED. THE PERMITTEE SHALL POST THE NJDEP HOTLINE NUMBER CONSTRUC EMAIL: INFO@FREEHOLDSCD.ORG. (I-877-WARN-DEP) WITH THE COPY OF THE AUTHORIZATION. COMPENSAT DEPARTMEN ROUTINE INSPECTIONS SUBSTANCE RESULTING A. THE PERMITTEE SHALL CONDUCT AND DOCUMENT WEEKLY (MINIMUM) COMPLIAN INSPECTIONS OF THE FACILITY TO IDENTIFY AREAS CONTRIBUTING TO THE COMPENSAT STORMWATER DISCHARGE AUTHORIZED BY THIS PERMIT AND EVALUATE WHETHER THE STORMWATER POLILITION PREVENTION PLAN (SPPP) IDENTIFIED UNDER FLO C. RELEASES IN THE CONSTRUCTION ACTIVITY STORMWATER (GP) PART I NARRATIVE 110, 117, ANI REQUIREMENTS, INCLUDING THIS SOIL EROSION AND SEDIMENT CONTROL PLAN IS MITIGATION NOTES BEING PROPERLY IMPLEMENTED AND MAINTAINED, OR WHETHER ADDITIONAL NATIONAL MEASURES ARE NEEDED TO IMPLEMENT THE SPPP. FOR ACIDIC SOIL B. ONCE INSTALLATION OF ANY REQUIRED OR OPTIONAL EROSION CONTROL DEVICE OR MEASURE HAS BEEN IMPLEMENTED, ROUTINE INSPECTIONS, MINIMUM WEEKLY, OF EACH MEASURE SHALL BE PERFORMED BY THE CONTRACTOR'S INSPECTION MCNJ-SOIL-NOTE-1700 05/01/17 PERSONNEL AND THE RESULTS RECORDED TO INVENTORY AND REPORT THE CONDITION OF EACH MEASURE TO ASSIST IN MAINTAINING THE EROSION AND LIMIT THE EXCAVATION AREA AND EXPOSURE TIME WHEN HIGH-ACID PRODUCING SEDIMENT CONTROL MEASURES IN GOOD WORKING ORDER. SOILS ARE ENCOUNTERED. C. THESE REPORT FORMS SHALL BECOME AN INTEGRAL PART OF THE SPPP AND SHALL TOPSOIL STRIPPED FROM THE SITE SHALL BE STORED SEPARATELY FROM TEMPORARILY BE MADE READILY ACCESSIBLE TO GOVERNMENTAL INSPECTION OFFICIALS, TH STOCKPILED HIGH ACID PRODUCING SOILS. OPERATOR'S ENGINEER, AND THE OPERATOR FOR REVIEW UPON REQUEST DURING VISITS TO THE PROJECT SITE. IN ADDITION, COPIES OF THE REPORTS SHALL BE THE FOLLOWI STOCKPILES OF HIGH ACID-PRODUCING SOIL SHOULD BE LOCATED ON LEVEL LAND TO PROVIDED TO ANY OF THESE PERSONS, UPON REQUEST, VIA MAIL OR FACSIMILE RIVERTON VIL MINIMIZE ITS MOVEMENT, ESPECIALLY WHEN THIS MATERIAL HAS A HIGH CLAY TRANSMISSION CONTROL PLA CONTENT REVISED THRC D. OTHER RECORD-KEEPING REQUIREMENTS SUCH. THIS SE TEMPORARILY STOCKPILED HIGH ACID-PRODUCING SOIL MATERIAL TO BE STORED UNDERSTAND THE CONTRACTOR SHALL KEEP THE FOLLOWING RECORDS RELATED TO MORE THAN 48 HOURS SHOULD BE COVERED WITH PROPERLY ANCHORED, HEAVY IN PROGRESS CONSTRUCTION ACTIVITIES AT THE SITE GRADE SHEETS OF POLYETHYLENE WHERE POSSIBLE. IF NOT POSSIBLE, STOCKPILES SHALL SUBIECT GATE BE COVERED WITH A MINIMUM OF 3 TO 6 INCHES OF WOOD CHIPS TO MINIMIZE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR AND THE AREAS WHICH WERE UNDER THE PR EROSION OF THE STOCKPILE. SILT FENCE SHALL BE INSTALLED AT THE TOE OF THE ISSUED FOR RIV SLOPE TO CONTAIN MOVEMENT OF THE STOCKPILED MATERIAL. TOPSOIL SHALL NOT DATES AND DETAILS CONCERNING THE INSTALLATION OF STRUCTURAL SESC MEASURE BE APPLIED TO THE STOCKPILES TO PREVENT TOPSOIL CONTAMINATION WITH HIGH CONTROL PERFORMED II ACID-PRODUCING SOIL DATES WHEN CONSTRUCTION ACTIVITIES CEASE IN AN AREA **RIVERTON VILI** DATES WHEN AN AREAS IS STABILIZED, EITHER TEMPORARILY OR PERMANENTLY HIGH ACID PRODUCING SOILS WITH A DH OF 4.0 OR LESS OR CONTAINING IRON DATES OF RAINFALL AND THE AMOUNT OF RAINFALL I INSTALLATIO SULFIDE (INCLUDING BORROW FROM CUTS OR DREDGED SEDIMENT) SHALL BE DATES AND DESCRIPTIONS OF THE CHARACTER AND AMOUNT OF AN SPILLS OF INSTALLED IM ULTIMATELY PLACED OR BURIED WITH LIMESTONE APPLIED AT THE RATE OF 10 TONS HAZARDOUS MATERIALS ENTRANCE PA RECORDS OF REPORTS FILED WITH REGULATORY AGENCIES IF REPORTABLE PER ACRE (OR 450 POUNDS PER 1,000 SQUARE FEET OF SURFACE AREA) AND COVERED (I WEEK) QUANTITIES OF HAZARDOUS MATERIALS SPILLED WITH A MINIMUM OF 12 INCHES OF SETTLED SOIL WITH A pH OF 5.0 OR MORE EXCEPT 2. INSTALL PERIM AS FOLLOWS: STORMWATER POLLUTION PREVENTION PLAN (SPPP) 3. PREPARE SEDIN A. AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A A. CONSTRUCTION ACTIVITY THAT MAY RESULT IN A STORMWATER DISCHARGE MINIMUM OF 24 INCHES OF SOIL WITH A DH OF 5 OR MORE. AUTHORIZED BY THIS PERMIT SHALL BE EXECUTED ONLY IN ACCORDANCE WITH A 4. REMOVE EXIST SPPP THAT CONSISTS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL AND VILLAGE B. DISPOSAL AREAS SHALL NOT BE LOCATED WITHIN 24 INCHES OF ANY SURFACE OF A PLAN, AND (WHERE APPLICABLE) THE CONSTRUCTION SITE WASTE CONTROL SLOPE OR BANK, SUCH AS BERMS, STREAM BANKS, DITCHES, AND OTHERS, TO COMPONENT SET FORTH IN ATTACHMENT B TO THE GENERAL PERMIT. A COPY OF 5. SITE GRADING I PREVENT POTENTIAL LATERAL LEACHING DAMAGES THIS SPPP SHALL BE RETAINED BY THE PERMITTEE FOR A PERIOD OF AT LEAST FIVE (5 YEARS AFTER THE COMPLETION OF CONSTRUCTION. THIS PERIOD MAY B EXTENDED BY WRITTEN REQUEST OF THE DEPARTMENT AT ANY TIME (SEE N.J.A.C EQUIPMENT USED FOR MOVEMENT OF HIGH ACID-PRODUCING SOILS SHOULD BE 7:14A-6.6) CLEANED AT THE END OF EACH DAY TO PREVENT SPREADING OF HIGH ACID-PRODUCING SOIL MATERIALS TO OTHER PARTS OF THE SITE. INTO STREAMS OR REPORTS OF NONCOMPLIANCE STORMWATER CONVEYANCES, AND TO PROTECT MACHINERY FROM ACCELERATED RUSTING A. ALL INSTANCES OF NONCOMPLIANCE NOT REPORTED UNDER N.J.A.C. 7:14A-6.10 SHALL BE REPORTED TO THE DEPARTMENT ANNUALLY. NON-VEGETATIVE EROSION CONTROL PRACTICES (STONE TRACKING PADS, STRATEGICALLY PLACED LIMESTONE CHECK DAM, SEDIMENT BARRIER, WOOD CHIPS) NOTIFICATION OF COMPLETION SHOULD BE INSTALLED TO LIMIT THE MOVEMENT OF HIGH ACID-PRODUCING SOILS A. THE SOIL CONSERVATION DISTRICT WILL PROVIDE THE DEPARTMENT A COPY OF 8. INTERMEDIATE SILT FENCE TO BE INSTALLED TO LIMIT SHEET FLOW TO 150 FEET FROM, AROUND, OR OFF THE SITE. THE REPORT OF COMPLIANCE ISSUED UNDER N.J.A.C. 2:90-1 FOR COMPLETED ACROSS DISTURBED AREAS. CONSTRUCTION ACTIVITIES, EXCEPT SINGLE FAMILY HOME CONSTRUCTION UNDER FOLLOWING BURIAL OR REMOVAL OF HIGH ACID-PRODUCING SOIL, TOPSOILING AND B. BELOW. THE REPORT OF COMPLIANCE SHALL SERVE AS THE NOTIFICATION OF SEEDING OF THE SITE (SEE TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION, COMPLETION PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION, AND TOPSOILING), MONITORING MUST CONTINUE FOR A MINIMUM OF 6 MONTHS TO ENSURE THERE IS B. THE BUILDER OF A SINGLE FAMILY HOME THAT IS AUTHORIZED UNDER THIS PERMIT, 10. CONSTRUCT PUMP STATION (3 MONTHS) ADEQUATE STABILIZATION AND THAT NO HIGH ACID-PRODUCING SOIL PROBLEMS BUT NOT WITHIN THE DEFINITION OF "PROJECT AT N.J.S.A. 4:24-41G, SHALL SEND A EMERGE. IF PROBLEMS STILL EXIST, THE AFFECTED AREA MUST BE TREATED AS INDICATED COPY OF THE FINAL CERTIFICATE OF OCCUPANCY TO THE SOIL CONSERVATION ABOVE TO CORRECT THE PROBLEM. DISTRICT, THE SOIL CONSERVATION DISTRICT WILL PROVIDE A COPY OF THE FINAL CERTIFICATE OF OCCUPANCY TO THE DEPARTMENT, WHICH WILL SERVE AS NOTIFICATION OF COMPLETION C. THE DOT SHALL PROVIDE WRITTEN NOTIFICATION TO THE DEPARTMENT WHEN 13. INSTALL LANDSCAPING (6 MONTHS) DOT CERTIFIED PROJECTS ARE COMPLETED. DEWATERING NOTES COPIES OF ALL OF THE ABOVE, INCLUDING THE SPPP (WITH THE CERTIFIED PLAN), THE CERTIFICATION, AUTHORIZATION UNDER NIPDES CONSTRUCTION ACTIVITY STORMWATER GENERAL PERMIT, ALL CORRESPONDENCE AND NOTES TO AND FROM THE NIDEP AND SOIL CONSERVATION DISTRICT (OR DESIGNATED MUNICIPALITY) SHALL BE MAINTAINED ON-SITE. I. SPECIFIC DEWATERING DESIGNS WILL BE PROVIDED AS NEEDED PRIOR TO MONTHS CONSTRUCTION. 2. DETAILS FOR DEWATERING MEASURES SHALL BE PROVIDED AS SHOP DRAWINGS. 3. DISCHARGE FROM DEWATERING OPERATIONS SHALL BE HANDLED IN ACCORDANCE WITH THE REMEDIAL ACTION WORK PLAN.

| RUCTION SITE WASTE CONTROL | | |
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| PONENT OF THE STORMWATER JTION PREVENTION PLAN (SPPP) | | STANDARD FO |
| MCNJ-SOIL-NOTE-1200 07/01/17 JCTION SITE WASTE CONTROL COMPONENT OF THE SPPP CONSISTS OF 1ENTS IN 2., 3., AND 4. BELOW. THESE REQUIREMENTS BECAME OPERATIVE 2004 AND APPLY TO CONSTRUCTION ACTIVITIES THAT COMMENCE ON RCH 3, 2004. ANY NEW CONSTRUCTION ACTIVITY FOR WHICH AN RFA IS | <u>SITE PREPARATION</u> A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMEN SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARD FOR LAND GRADING. | |
| N OR AFTER MARCH 3, 2004 OR WHICH RECEIVE AUTOMATIC RENEWAL OF ON UNDER THIS PERMIT AFTER MARCH 3, 2004 ALSO SHALL COMPLY WITH EMENTS. | B. IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SUBSOIL SHA EVALUATED FOR COMPACTION IN ACCORDANCE WITH THE STANDARD FOR LAND GRAD | |
| ANAGEMENT TO PREVENT OR REDUCE WASTE - ANY PESTICIDES, UELS, LUBRICANTS, PETROLEUM PRODUCTS, ANTI-FREEZE, PAINTS AND NERS, CLEANING SOLVENTS AND ACIDS, DETERGENTS, CHEMICAL ND CONCRETE CURING COMPOUNDS SHALL BE STORED IN CONTAINERS FERED AREA. MANUFACTURERS' RECOMMENDED APPLICATION RATES, USES, DS SHALL BE STRICTLY FOLLOWED TO THE EXTENT NECESSARY TO MINIMIZE THE PRESENCE OF WASTE FROM SUCH MATERIALS IN THE CADISCHARGE AUTHORIZED BY THIS PERMIT. (THE PRECEDING SENTENCE | C. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WIT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO AN AVERAGE DEPTH INCHES, MINIMUM OF 4 INCHES, FIRMED IN PLACE IS REQUIRED. ALTERNATIVE DEPTHS M CONSIDERED WHERE SPECIAL REGULATORY AND/OR INDUSTRY DESIGN STANDARD APPROPRIATE SUCH AS ON GOLF COURSES, SPORTS FIELDS, LANDFILL CAPPING ETC. TO SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH STANDARD FOR TOPSOILING. | OF 5 2. DETENTION BASINS: IAY BE MIX #9: S ARE DEERTONGUE DPSOIL |
| PLY TO ANY MANUFACTURERS' RECOMMENDATIONS ABOUT FERTILIZER ATERIAL THAT CONFLICT WITH THE EROSION AND SEDIMENT CONTROL OF THE FACILITY'S SPPP.) | D. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVER GRADE-STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT E AND WATERWAYS. | sions, |
| LING - THE FOLLOWING REQUIREMENTS APPLY ONLY TO CONSTRUCTION HAT HAS THE POTENTIAL TO BE TRANSPORTED BY THE STORMWATER UTHORIZED BY THIS PERMIT. THE HANDLING AT THE CONSTRUCTION TE BUILDING MATERIAL AND RUBBLE AND OTHER CONSTRUCTION SITE LUDING LITTER AND HAZARDOUS AND SANITARY WASTES, SHALL ITH THE STATE SOLID WASTE MANAGEMENT ACT, N.J.S.A. 13:1E-1 ET SEQ., .EMENTING RULES AT N.J.A.C. 7:26, 7:26A, AND 7:26G; THE NEW JERSEY | <u>SEEDBED PREPARATION</u> A. UNIFORMLY APPLY GROUND LIMESTONE AND FERTILIZER TO TOPSOIL WHICH HAS SPREAD AND FIRMED, ACCORDING TO SITE SPECIFIC SOIL TEST RECOMMENDATIONS SU OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE THE LOCAL RUTGERS COOPERATIVE EXTENSION O (HTTP://NJAES.RUTGERS.EDU/COUNTY/). | C. CONVENTIONAL SEEDING IS PERF BEEN (CENTRIFUGAL) SEEDER, DROP SEE CH AS HYDROSEEDED OR CULTIPACKED |
| DNTROL CODE AT N.J.A.C. 7:30; THE STATE LITTER STATUTE (N.J.S.A. ID OSHA REQUIREMENTS FOR SANITATION AT 29 C.F.R. 1926 (EXCEPT CONFORMANCE IS NOT RELEVANT TO THE STORMWATER DISCHARGE BY THIS PERMIT). CONSTRUCTION SITES SHALL HAVE ONE OR MORE WASTE COLLECTION AREAS ONSITE OR ADJACENT TO THE SITE, AND AN UMBER OF CONTAINERS (WITH LIDS OR COVERS) FOR WASTE. WASTE LECTED FROM SUCH CONTAINERS BEFORE THEY OVERFLOW, AND SPILLS | a. FOR TEMPORARY SEEDING: FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUND ACRE OR II POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT WITH 50% V INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE. LIMING RATE SHA ESTABLISHED PER SOIL TESTING. | ALL BE THE PREFERRED METHOD. WHEN MINIMIZED AND WATER CONSERV E. HYDROSEEDING IS A BROADCAS |
| ITAINERS SHALL BE CLEANED UP IMMEDIATELY. CTION SITE WASTES INCLUDE BUT ARE NOT LIMITED TO: CTION AND DEMOLITION WASTE," AS DEFINED IN N.J.A.C. 7:26-1.4 AS "WASTE BUILDING MATERIAL AND RUBBLE RESULTING FROM CTION, REMODELING, REPAIR, AND DEMOLITION OPERATIONS ON | b. <u>FOR PERMANENT SEEDING:</u> FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUND ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 OR EQUIVALENT WITH 50% V INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE AND INCORPOR INTO THE SURFACE 4 INCHES. IF FERTILIZER IS NOT INCORPORATED, APPLY ONE-HAI RATE DESCRIBED ABOVE DURING SEEDBED PREPARATION AND REPEAT ANOTHER ONI RATE APPLICATION OF THE SAME FERTILIZER WITHIN 3 TO 5 WEEKS AFTER SEEDING. | VATER SEED, WATER AND FERTILIZER AND RATED SHALL NOT BE INCLUDED IN THE F THE WITH A HYDROSEEDER FOLLOW |
| COMMERCIAL BUILDINGS, PAVEMENTS AND OTHER STRUCTURES. THE G MATERIALS MAY BE FOUND IN CONSTRUCTION AND DEMOLITION EATED AND UNTREATED WOOD SCRAP; TREE PARTS, TREE STUMPS AND NCRETE, ASPHALT, BRICKS, BLOCKS AND OTHER MASONRY; PLASTER AND RD; ROOFING MATERIALS; CORRUGATED CARDBOARD AND EOUS PAPER; FERROUS AND NON-FERROUS METAL; NON-ASBESTOS INSULATION; PLASTIC SCRAP; DIRT; CARPETS AND PADDING; GLASS | B. WORK LIME AND FERTILIZER INTO THE TOPSOIL AS NEARLY AS PRACTICAL TO A DEPTH INCHES WITH A DISC, SPRING-TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CON TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED. C. HIGH ACID PRODUCING SOIL, SOILS HAVING A PH OF 4 OR LESS OR CONTAINING IRON SI | FINAL 4. <u>MULCHING</u> TINUE MULCHING IS REQUIRED ON ALL SE GRASS IS ESTABLISHED AND WILL PRC OF VEGETATION SUFFICIENT TO CON THIS MULCHING REQUIREMENT |
| AND DOOR); AND OTHER MISCELLANEOUS MATERIALS; BUT SHALL NOT THER SOLID WASTE TYPES." E BUILDING MATERIAL AND RUBBLE RESULTING FROM SUCH OPERATIONS AZARDOUS FOR PURPOSES OF N.J.A.C. 7:26G (THE HAZARDOUS WASTE | SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A PH OF 5 OR BEFORE INITIATING SEEDBED REPARATION. SEE STANDARD FOR MANAGEMENT OF ACID-PRODUCING SOILS FOR SPECIFIC REQUIREMENTS. D. IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SURFACE SHOU SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERM | HIGH A. STRAW OR HAY. UNROTTED SMA RATE OF I-1/2 TO 2 TONS PER ACI WHERE A CRIMPER IS USED INSTE. LD BE AGENT), THE RATE OF APPLICATION ISSIBLE NOT GRIND THE MULCH. HAY |
|) (INCLUDING SPILLED) PESTICIDES, FERTILIZERS, FUELS, LUBRICANTS, 1 PRODUCTS, ANTI-FREEZE, PAINTS AND PAINT THINNERS, PAINT CHIPS BLASTING GRITS, CLEANING SOLVENTS, ACIDS FOR CLEANING MASONRY DETERGENTS, CHEMICAL ADDITIVES USED FOR SOIL STABILIZATION (E.G., CHLORIDE), AND CONCRETE CURING COMPOUNDS. | ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIG. SYSTEMS, ETC.). SEE "SOIL DECOMPACTION AND TESTING REQUIREMENTS". E. REMOVE FROM THE SURFACE ALL STONES 2 INCHES OR LARGER IN ANY DIMENSION OTHER DEBRIS SUCH AS WIRE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS OR OUNSUITABLE MATERIAL. | APPLICATION - SPREAD MULCH U AND 85% OF THE SOIL SURFACE IS COVE |
| TTER," AS DEFINED AT N.J.S.A. 13:1E-215.D AS FOLLOWS: "ANY USED OR MED SUBSTANCE OR WASTE MATERIAL WHICH HAS BEEN DISCARDED MADE OF ALUMINUM, GLASS, PLASTIC, RUBBER, PAPER, OR OTHER DR SYNTHETIC MATERIAL, OR ANY COMBINATION THEREOF, INCLUDING, IMITED TO, ANY BOTTLE, JAR OR CAN, OR ANY TOP, CAP OR DETACHABLE IY BOTTLE, JAR OR CAN, ANY UNLIGHTED CIGARETTE, CIGAR, MATCH OR | <u>SEEDING</u> A. TEMPORARY SEEDING SPECIFICATIONS - TEMPORARY VEGETATIVE COVER SHALL CONS PERENNIAL RYEGRASS APPLIED UNIFORMLY AT A RATE OF 1.0 POUNDS PER 1,000 SQ.F LBS/ACRE), OR A MIXTURE FROM TABLE 7-2 OF THE STANDARDS APPROVED BY THE CONSERVATION DISTRICT. | T. (100 UPON THE SIZE OF THE AREA, STEE |
| NG OR GLOWING MATERIAL OR ANY GARBAGE, TRASH, REFUSE, DEBRIS, GRASS CLIPPINGS OR OTHER LAWN OR GARDEN WASTE, NEWSPAPERS, S, GLASS, METAL, PLASTIC OR PAPER CONTAINERS OR OTHER PACKAGING FRUCTION MATERIAL, BUT DOES NOT INCLUDE THE WASTE OF THE ROCESSES OF MINING OR OTHER EXTRACTION PROCESSES, LOGGING, G, FARMING OR MANUFACTURING." | B. PERMANENT SEEDING SPECIFICATIONS - SELECT AN APPROVED MIXTURE FROM THOSE BELOW, AN APPROVED MIXTURE FROM TABLE 4-3 OF THE STANDARDS, OR USE A MIX RECOMMENDED BY RUTGERS COOPERATIVE EXTENSION OR NATURAL RESO CONSERVATION SERVICE WHICH IS APPROVED BY THE SOIL CONSERVATION DISTRICT GERMINATION SHALL HAVE BEEN TESTED WITHIN 12 MONTHS OF THE PLANTING DAT SEED SHALL BE ACCEPTED WITH A GERMINATION TEST DATE MORE THAN 12 MONTH UNLESS RETESTED. SEED SHALL BE APPLIED AS NOTED BELOW WITHIN THE DATES SPECIF | SOIL SURFACE EVERY 4 FEET IN APPLYING MULCH. SECURE MUL KTURE IN A CRISS-CROSS AND A SQUA URCES OR MORE ROUND TURNS. . SEED E. NO 2. MULCH NETTINGS - STAPLE P/ SURFACE. USE A DEGRADABLE N |
| IATED SOILS ENCOUNTERED OR DISCOVERED DURING EARTHMOVING OR DURING THE CLEANUP OF A LEAK OR DISCHARGE OF A HAZARDOUS | THE STANDARDS: | 3. CRIMPER (MULCH ANCHORIN SOMEWHAT LIKE A DISC HARR BROADCAST LONG FIBER MULC |
| WASHOUT - CONCRETE WASHOUT ONSITE IS PROHIBITED OUTSIDE D AREAS. WASHOUT ACTIVITIES INCLUDE, BUT NOT LIMITED TO, THE OF TRUCKS, CHUTES, HOSES, MIXERS, HOPPERS, AND TOOLS. | MIX #15 (WELL TO MODERATELY DRAINED SOIL):HARD FESCUE130 LBS/ACRECHEWING FESCUE45 LBS/ACRESTRONG CREEPING RED FESCUE45 LBS/ACREPERENNIAL RYEGRASS10 LBS/ACRE | LEAVE PART STANDING UPRIGH TRACTOR, WHICH MUST OPEF MUST BE 3 TONS PER ACRE. NO 4. LIQUID MULCH-BINDERS - MAY I |
| D WASHOUT AREAS SHALL BE LINED AND BERMED TO PREVENT TO SURFACE AND GROUNDWATER. CONCRETE FROM THE CONCRETE WASHOUT WASHOUT SHALL BE AND PROPERLY DISPOSED OF. | MIX #16 (POORLY DRAINED SOIL) ROUGH BLUEGRASS 90 LBS/ACRE STRONG CREEPING RED FESCUE 130 LBS/ACRE | a. APPLICATIONS SHOULD BE H VALLEYS, AND AT CRESTS OF IN APPEARANCE. |
| CRETE WASHOUT AREA SHALL BE CLEARLY DESIGNATED WITH A SIGN G THE AREAS USES. | OPTIMUM SEEDING DATES: 8/15 - 10/15 (ZONE 6b); ACCEPTABLE SEEDING DATES: | b. USE ONE OF THE FOLLOWIN |
| SEWAGE/SEPTAGE DISPOSAL - DISCHARGES OF RAW SANITARY SEWAGE OR INSITE ARE STRICTLY PROHIBITED. ADEQUATE FACILITIES WITH PROPER HALL BE PROVIDED AND MAINTAINED ONSITE OR ADJACENT TO THE SITE ORKERS AND OTHER SANITARY NEEDS. | STANDARD FOR TOPSOILING | DUST CON |
| ARGES OF HAZARDOUS SUBSTANCES; FEDERALLY REPORTABLE RELEASES. SHALL BE AVAILABLE ONSITE OR ADJACENT TO THE SITE FOR ANY THAT ARE LISTED IN 2. ABOVE AND USED OR APPLIED ONSITE. ALL SPILLS MATERIAL SHALL BE CONTAINED AND CLEANED UP IMMEDIATELY. JP MATERIALS SHALL BE PROPERLY DISPOSED OF. ES OF HAZARDOUS SUBSTANCES (AS DEFINED IN N.J.A.C. 7:1E-1.6) IN CTION SITE WASTES ARE SUBJECT TO THE PROVISIONS OF THE SPILL | I. <u>MATERIALS</u> A. TOPSOIL SHOULD BE FRIABLE, LOAMY, 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. FRIABLE | MCNJ-SOIL-NOTE <u>APPLICABILITY:</u> 1. EXPOSED SOIL SURFACES SUBJECT TO DUST CONTROL PER THE METHODS OUTLINED BELO 2. TREATED AREAS ARE TO BE MONITORED AND <u>DUST CONTROL METHODS:</u> 1. APPLY MULCHES OR VEGETATIVE COVER AS |
| TION AND CONTROL ACT, N.J.S.A. 58:10-23.11 ET SEQ., AND OF NT RULES FOR DISCHARGES OF PETROLEUM AND OTHER HAZARDOUS ES AT N.J.A.C. 7:1E. NO DISCHARGE OF HAZARDOUS SUBSTANCES FROM AN ONSITE SPILL SHALL BE DEEMED TO BE "PURSUANT TO AND IN CE WITH [THIS] PERMIT" WITHIN THE MEANING OF THE SPILL TION AND CONTROL ACT AT N.J.S.A. 58:10-23.11C. | MEANS EASILY CRUMBLES IN THE FINGERS, AS DEFINED IN MOST SOILS TEXTS. LOAMY MEANS TEXTURE GROUPS CONSISTING OF COARSE LOAMY SANDS, SANDY LOAM, FINE AND VERY FINE SANDY LOAM, LOAM, SILT LOAM, CLAY LOAM, SANDY CLAY LOAM AND SILTY CLAY LOAM TEXTURES AND HAVING LESS THAN 35% COARSE FRAGMENTS (PARTICLES LESS THAN 2MM IN SIZE) AS DEFINED IN THE GLOSSARY OF SOIL SCIENCE TERMS, 1996, SOIL SCIENCE SOCIETY OF AMERICA. SOLUBLE SALTS SHOULD NOT BE EXCESSIVE (CONDUCTIVITY LESS THAN 0.5 MILLIMHOS PER CENTIMETER. MORE THAN 0.5 MILLIMHOS MAY DESICCATE SEEDLINGS AND | CONTROL STANDARDS. 2. TILL AND ROUGHEN SURFACE AND BRING TEMPORARY EMERGENCY MEASURE WHIC BLOWING STARTS. BEGIN PLOWING ON WII PLOWS SPACED ABOUT 12 INCHES APART A EXAMPLES OF EQUIPMENT WHICH MAY PRODU 3. SPRINKLE THE SITE UNTIL THE SURFACE IS WE |
| N EXCESS OF REPORTABLE QUANTITIES (RQ) ESTABLISHED UNDER 40 C.F.R. ID 302 THAT OCCUR WITHIN A 24-HR PERIOD MUST BE REPORTED TO THE RESPONSE CENTER (800 424-8802). | ADVERSELY IMPACT GROWTH). IMPORTED TOPSOIL SHALL HAVE A MINIMUM ORGANIC MATTER CONTENT OF 2.75 PERCENT. ORGANIC MATTER CONTENT MAY BE RAISED BY ADDITIVES. B. TOPSOIL SUBSTITUTE IS A SOIL MATERIAL WHICH MAY HAVE BEEN AMENDED WITH | ERECT BARRIERS SUCH AS SOLID BOARD FEN CRATE WALLS, BALES OF HAY AND SIMILAR M AND SOIL BLOWING. APPLY CALCIUM CHLORIDE IN THE FORM OF LI ENOUGH TO FEED THROUGH COMMONLY US KEEP SURFACE MOIST BUT NOT CAUSE F |
| EQUENCE OF COMMERCIAL CONSTRUCTION | 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. | SUITABLE ON STEEPER SLOPES NEAR THE ST AROUND PLANTS. 6. COVER SURFACE WITH CRUSHED STONE OR COVER SURFACE WITH CRUSHED STONE OR COVER SURFACE WITH CRUSHED STONE OR CONTRACTOR TO USE AREAS. MATERIALS 8. CONTRACTOR TO USE EARTH GUARD & DUST CONTRACTOR TO USE EARTH GUARD & DUST CONTRONMENTAL PRODUCTS LLC OR APPROVER |
| NG SEQUENCE OF CONSTRUCTION WAS APPROVED AS PART OF THE LAGE PHASE I SITE PLAN APPLICATION (SOIL EROSION AND SEDIMENT NNS PREPARED BY MASER CONSULTING P.A. DATED MAY 15, 2019 AND PUGH JULY 2, 2021) AND IS ACTIVELY UNDER IMPLEMENTATION. AS | <u>STRIPPING AND STOCKPILING</u> A. 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. | MATERIAL WATER TY |
| QUENCE OF CONSTRUCTION IS PROVIDED WITH THE ING SOME TASKS HAVE ALREADY BEEN COMPLETED, SOME TASKS ARE ONGOING, AND SOME TASKS ARE YET TO BE COMPLETED. THE WAY SERVICES DISTRICT IS LOCATED WITHIN THE AREA COVERED | 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. | ANIONIC ASPHALT EMULSION 7:1 CC |
| AVAIL SERVICES DISTRICT IS EDUCATED WITHIN THE ALCOVERED AVAILAND SEDIMENT CONTROL (SESC) APPROVAL VERTON VILLAGE PHASE I. ONGOING AND NECESSARY ADDITIONAL ASSOCIATED WITH THE GATEWAY SERVICES DISTRICT SHALL BE A COMPLIANCE WITH THIS SEQUENCE OF CONSTRUCTION AND THE | D. A 4-6 INCH STRIPPING DEPTH IS COMMON, BUT MAY VARY DEPENDING ON THE PARTICULAR SOIL. | LATEX EMULSION 12.5:1 RESIN IN WATER 4:1 |
| LAGE PHASE I SESC APPROVAL. NOF STONE CONSTRUCTION ENTRANCE PAD. SILT FENCE TO BE MEDIATELY DOWNSTREAM PRIOR TO ANY DISTURBANCE FOR D. | 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 THE STANDARD FOR VEGETATIVE COVER FOR SOIL STABILIZATION. WEEDS SHOULD NOT BE ALLOWED | POLYACRYLAMIDE (PAM) - SPRAY ON POLYACRYLAMIDE (PAM) - DRY SPREAD APPLY ACCORDING MAY ALSO BE USED A TO FLOCCULATE AN SEE SEDIMENT BASIN |
| ETER SILT FENCE. (I MONTH) 1ENT BASIN #I (PRIMARY LAGOON) (I MONTH). ING STOCKPILES ADJACENT TO PRIMARY LAGOON, BASS PRO SITE | TO GROW ON STOCKPILES. 3. <u>SITE PREPARATION</u> 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. | ACIDULATED SOY BEAN SOAP STICK NONE C |
| (3 MONTHS) | 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

C. AS GUIDANCE FOR IDEAL CONDITIONS, SUBSOIL SHOULD BE TESTED FOR LIME

D. PRIOR TO TOPSOILING, THE SUBSOIL SHALL BE IN COMPLIANCE WITH THE

E. EMPLOY NEEDED EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE

A. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK

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 MINIMUM DEPTH OF 12 INCHES OF SOIL HAVING A PH OF 5.0 OR MORE, IN

ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID

C. PURSUANT TO THE REQUIREMENTS 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.

WITHOUT DAMAGING SOIL STRUCTURE; I.E., LESS THAN FIELD CAPACITY.

STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENTATION

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

ACCORDANCE WITH THE STANDARD FOR LAND GRADING.

PRACTICAL TO A DEPTH OF 4 INCHES.

STANDARD FOR LAND GRADING

BASINS, AND WATERWAYS.

APPLYING TOPSOIL

PRODUCING SOIL

EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND

ANCHORING, AND MAINTENANCE. ALL GRADING SHOULD BE DONE IN

6. INSTALL CULVERT 'B', HEADWALLS AND SCOUR HOLES TO RARITAN RIVER. CONTRACTOR RESPONSIBLE TO ENSURE NO SEDIMENT OR IMPACTED WATER IS DISCHARGED TO THE RARITAN RIVER AT ANY TIME DURING CONSTRUCTION. CONTRACTOR TO PROVIDE WRITTEN PLAN AND SITE SPECIFIC DETAILS FOR

CULVERT INSTALLATION TO MASER CONSULTING P.A., BOROUGH ENGINEER AND SAYREVILLE SEAPORT ASSOCIATES PRIOR TO CONSTRUCTION. (2 MONTHS) 7. CONSTRUCT WET POND AND CONDUIT OUTLET PROTECTION. (6 MONTHS)

9. CONTINUALLY MAINTAIN SOIL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION

II. CONSTRUCT ROADS, INCLUDING CHEVALIER AVENUE (NO PAVEMENT SURFACE COURSE) & UTILITIES (12 MONTHS)

12. BUILDING CONSTRUCTION (ON-GOING)

CONS

14. INSTALL FINAL PAVEMENT COURSE AT PARKING LOTS AND ALL ROADS INCLUDING CHEVALIER AVENUE UPON COMPLETION OF ALL BUILDING

CONSTRUCTION IN AREAS TO BE PAVED (4 MONTHS) 15. STABILIZE WORK AREA ACCORDING TO PERMANENT SEEDING SPECIFICATIONS. (2

16. REMOVE CONSTRUCTION ACCESS, SILT FENCE, INLET PROTECTION, AND ALL OTHER TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES UPON PERMANENT STABILIZATION OF ALL DISTURBED AREAS AND ACCEPTANCE BY BOROUGH ENGINEER. (2 WEEKS)

OR VEGETATIVE COVER

ING SHOULD ONLY BE CONDUCTED WHEN THE SITE IS DING WHITE CLOVER REQUIRE THAT AT LEAST SIX WEEKS OF MAIN AFTER SEEDING TO ENDURE ESTABLISHMENT BEFORE

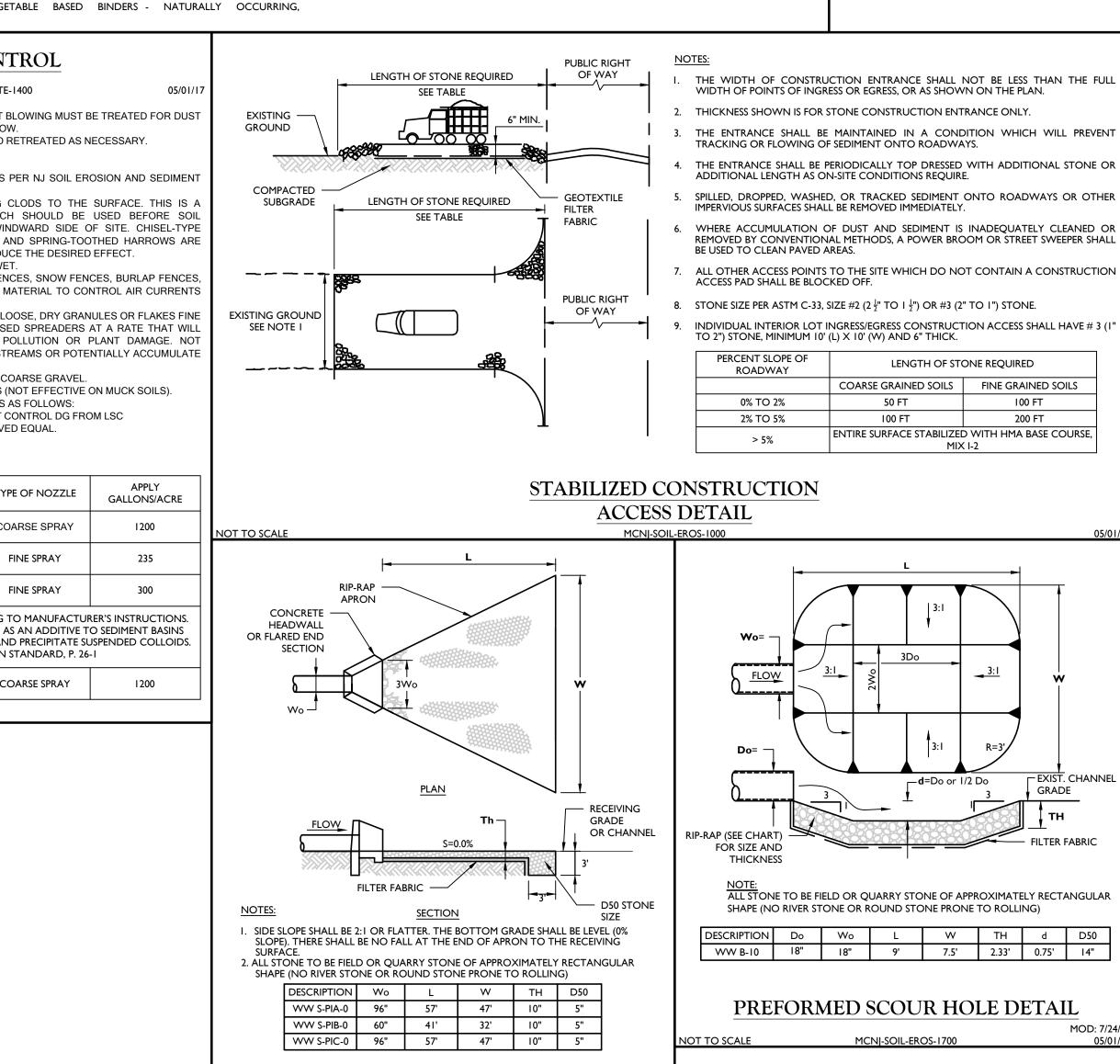
20 LBS/ACRE 2 LBS/ACRE 15 LBS/ACRE 25 LBS/ACRE

- FORMED BY APPLYING SEED UNIFORMLY BY HAND, CYCLONE EDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, D SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL REPARATION TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR EMENT MAY BE 1/4 INCH DEEPER ON COARSE-TEXTURED SOIL.
- SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD RE CAPILLARITY. AND IMPROVE SEEDLING EMERGENCE. THIS IS N PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE ATION ON SITE WILL BE MAXIMIZED.
- ST SEEDING METHOD USUALLY INVOLVING A TRUCK, OR AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING ID SPRAYING THE MIX ONTO THE PREPARED SEEDBED, MULCH TANK WITH SEED. SHORT-FIBERED MULCH MAY BE APPLIED VING SEEDING. (ALSO SEE SECTION 4 - MULCHING BELOW). RRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE NOT INCORPORATED INTO THE SOIL. WHEN POOR SEED TO S A REDUCED SEED GERMINATION AND GROWTH.
- EEDING. MULCH WILL PROTECT AGAINST EROSION BEFORE OMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE NTROL SOIL EROSION SHALL BE DEEMED COMPLIANCE WITH
- ALL GRAIN STRAW, HAY FREE OF SEEDS, TO BE APPLIED AT THE CRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT EAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE ION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE ESENCE OF WEED SEED.
- JNIFORMLY BY HAND OR MECHANICALLY SO THAT AT LEAST ERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, ELY 1.000 SOUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90
- LISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING EPNESS OF SLOPES, AND COSTS.
- 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER LCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS ARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO
- PAPER, JUTE, COTTON, OR PLASTIC NETTINGS TO THE SOIL NETTING IN AREAS TO BE MOWED.
- NG COULTER TOOL) A TRACTOR-DRAWN IMPLEMENT, OW. ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE CH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND HT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A RATE ON THE CONTOUR OF SLOPES. STRAW MULCH RATE TACKIFYING OR ADHESIVE AGENT IS REQUIRED.
- BE USED TO ANCHOR SALT HAY, HAY OR STRAW MULCH. HEAVIER AT EDGES WHERE WIND MAY CATCH THE MULCH, IN
- BANKS. THE REMAINDER OF THE AREA SHOULD BE UNIFORM

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 GE 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 1,500 POUNDS PER ACRE (OR AS RECOMMENDED BY THE PRODUCT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.
- . PELLETIZED MULCH COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS, AND COLORING AGENTS. THE DRY PELLETS, WHEN APPLIED TO A SEEDED AREA AND WATERED, FORM A MULCH MAT. PELLETIZED MULCH SHALL BE APPLIED IN ACCORDANCE WITH THE MANUEACTURER'S RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT TH 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.
- IRRIGATION (WHERE FEASIBLE): IF SOIL MOISTURE IS DEFICIENT SUPPLY NEW SEEDING WITH ADEQUATE WATER (A MINIMUM OF 1/4 INCH APPLIED UP TO TWICE A DAY UNTIL VEGETATION IS WELL ESTABLISHED). THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE IN ABNORMALLY DRY OR HOT WEATHER OR ON DROUGHTY
- NO FOLLOW-UP TOPDRESSING IS MANDATORY UNLESS WHERE GROSS NITROGEN DIFICIENCY EXISTS IN THE SOIL TO THE EXTENT THAT TURF FAILURE MAY DEVELOP. IN THAT INSTANCE, TOPDRESS WITH 10-10-10 OR EOUIVALENT AT 300 LB PER ACRE OR 7 LB PER 1,000 SF EVERY 3 TO 5 WEEKS UNTIL THE GROSS NITROGEN DEFICIENCY IN THE TURF IS AMELIORATED.
- ESTABLISHING PERMANENT VEGETATIVE STABILIZATION: THE QUALITY OF PERMANENT VEGETATION RESTS WITH THE CONTRACTOR. THE TIMING OF SEEDING, PREPARING THE SEEDBED, APPLYING NUTRIENTS, MULCH AND OTHER MANAGEMENT ARE ESSENTIAL. THE SEED APPLICATION RATES IN TABLE 4-2 ARE REQUIRED WHEN A REPORT OF COMPLIANCE IS REQUESTED PRIOR TO ACTUAL ESTABLISHMENT OF PERMANENT VEGETATION. UI 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.
- 8. SEEDING MIX FOR PDM SOILS APPLY THE FOLLOWING SEED MIX AT A RATE OF 100 LBS/ACRE: 30% CREEPING RED FESCUE
- 30% TALL FESCUE 15% ALKALIGRASS **10% SWITCHGRASS** 5% BIRDSFOOT TREFOIL 5% ALSIKE CLOVER
- 5% SWITCHGRASS ALSO APPLY THE FOLLOWING COVER CROP DEPENDING ON THE TIME OF SEEDING:
- SUMMER OR FALL (JUNE THRU SEPTEMBER) PERENNIAL RYEGRASS AT A RATE OF 20LBS/ACRE
- SPRING (APRIL 15 THRU MAY): ANNUAL RYEGRASS AT A RATE OF 20LBS/ACRE
- FERTILIZER 10-20-10:NPR @ 100LBS/ACRE.
- COLLECT (I) SOIL PH TEST PER ACRE. IF PH>0 THEN APPLY PASTILLE SULFUR SHALL BE APPLIED AT A RATE OF 100LBS/ACRE



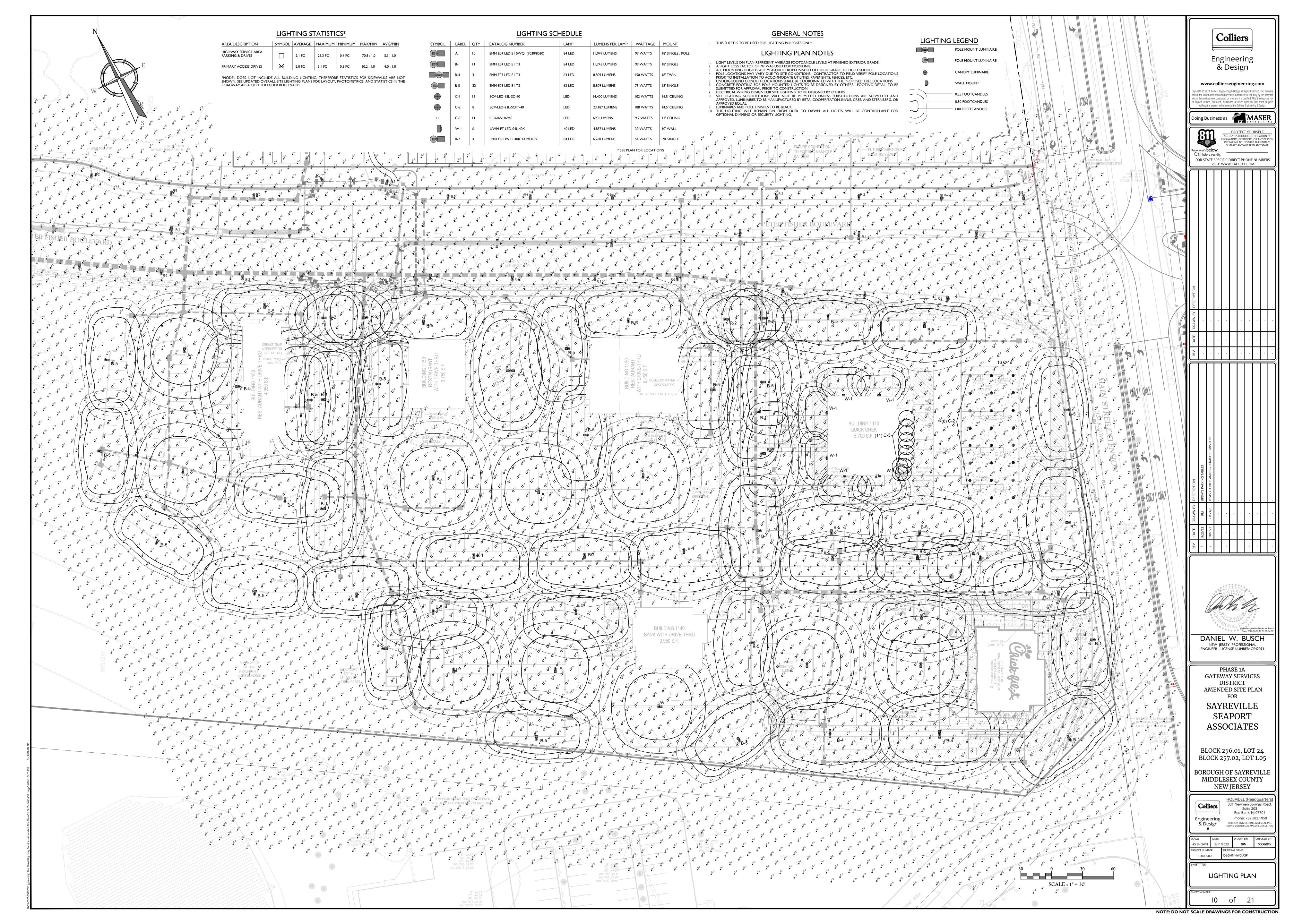
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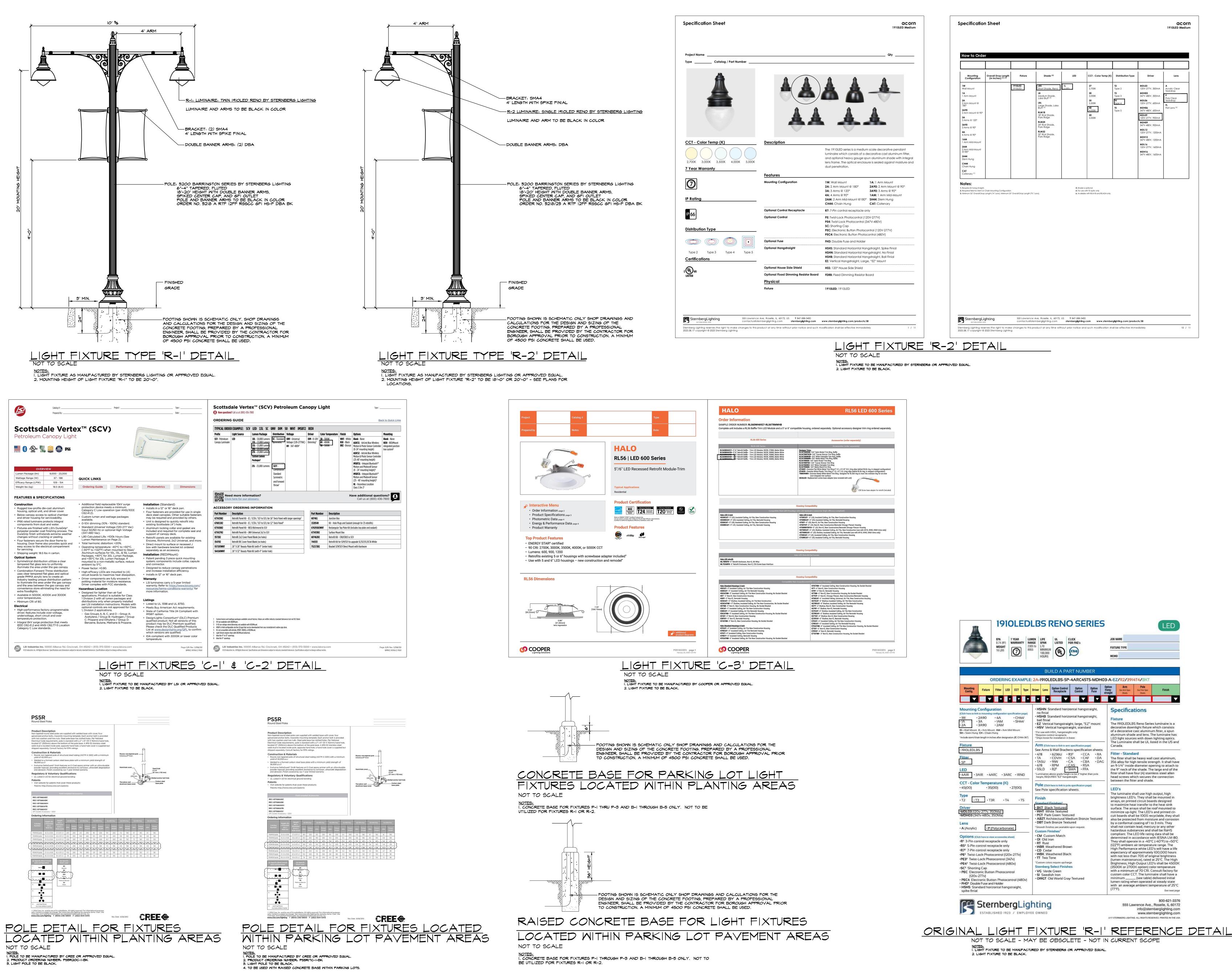
CONDUIT OUTLET

PROTECTION DETAIL

IOT TO SCALE

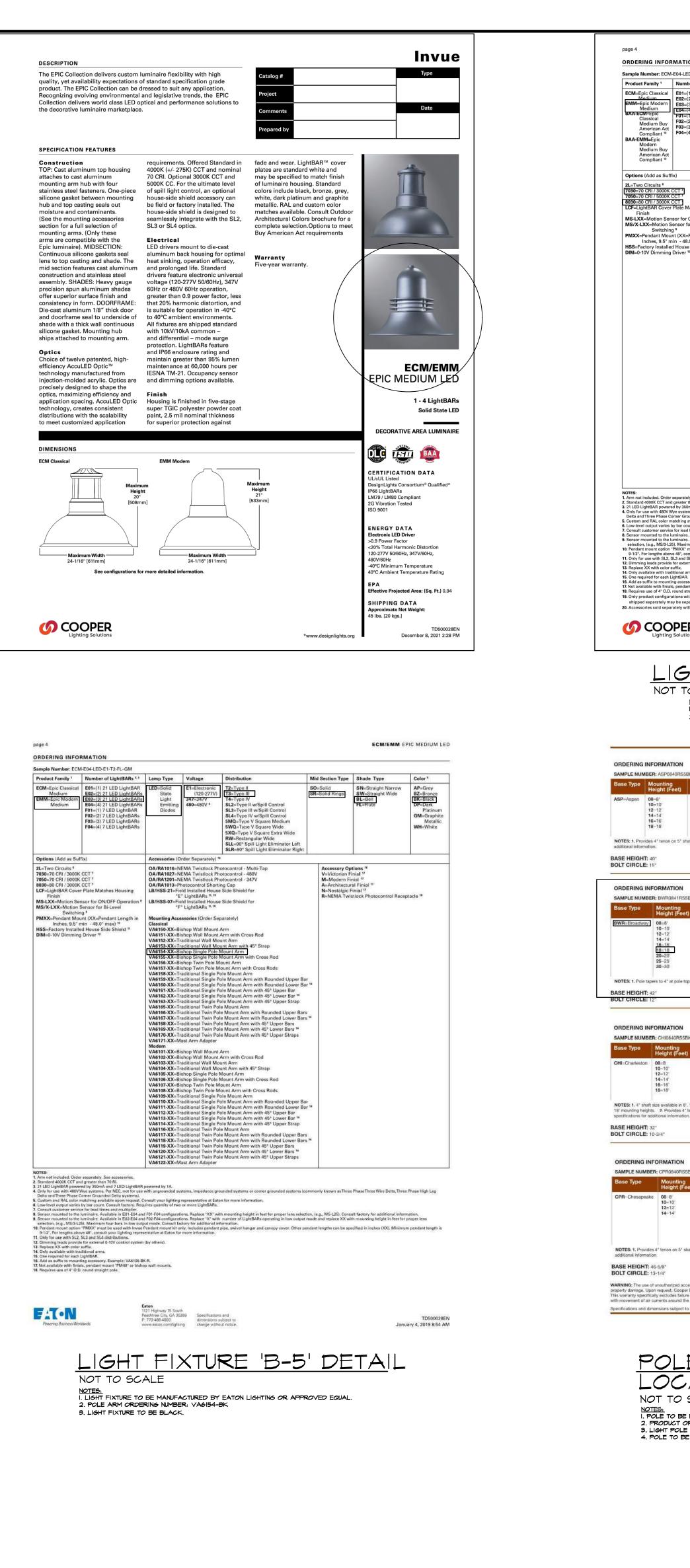
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| 7 | UPDATE PARKING TABLES REVISED FOR PLANNING BOARD SUBMISSION | | | | | | | | |
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NOTE: DO NO



- FOOTING SHOWN IS SCHEMATIC ONLY. SHOP DRAWINGS AND CALCULATIONS FOR THE DESIGN AND SIZING OF THE CONCRETE FOOTING, PREPARED BY A PROFESSIONAL ENGINEER, SHALL BE PROVIDED BY THE CONTRACTOR FOR BOROUGH APPROVAL PRIOR

TO CONSTRUCTION. A MINIMUM OF 4500 PSI CONCRETE SHALL BE USED.

CONCRETE BASE FOR PARKING LOT LIGHT

FIXTURES LOCATED WITHIN PLANTING AREAS

NOT TO SCALE

| MATION | | | | ECM/EMM EI | PIC MEDIUM LED | | | page 4 ORDERING INFOR | MATION | | | |
|--|---|--|---|---|--|------------------|--|---|--|--|--|---|
| E04-LED-E1-T2-FL-GM Number of LightBARs ^{2,3} E01=(1) 21 LED LightBAR E02=(2) 21 LED LightBARs E03=(3) 21 LED LightBARs E04=(4) 21 LED LightBARs F01=(1) 7 LED LightBARs F02=(2) 7 LED LightBARs F03=(3) 7 LED LightBARs F04=(4) 7 LED LightBARs | LED=Solid State Light Emitting Diodes E1=Electronic (120-277V) 347-347V 480=480V 4 Si Si Si Si Si Si Si Si Si Si Si Si Si | istribution 2=Type II 3=Type III 4=Type IIV L2=Type II w/Spill Control L3=Type II w/Spill Control 4d=Type IV w/Spill Control 4d=Type V Square Kide WC=Type V Square Extra Wide WC=Rectangular Wide MC=Rectangular | SO=Solid SR=Solid Rings | Shade Type SN=Straight Narrow <u>SW=Straig</u> ht Wide BL=Bell FL=Flute | Color ⁵ AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White | | | Sample Number: ECM Product Family ¹ ECM=Epic Classical Medium EMM=Epic Modern Medium | E04-LED-E1-T2-FL-GM Number of LightBARs 2-3 E01=(1) 21 LED LightBAR E02=(2) 21 LED LightBARs E03=(3) 21 LED LightBARs E04=(4) 21 LED LightBARs F01=(1) 7 LED LightBARs F03=(3) 7 LED LightBARs F04=(4) 7 LED LightBARs | LED=Solid State Light | 347=347V 480=480V ⁴ | Distribution T2=Type II T3=Type II T4=Type IV SL2=Type II w/Spill SL3=Type II w/Spill SL3=Type IV squar SMQ=Type V Squar SMQ=Type V Squar RW=Rectangular W SL1=90° Spill Light SL8=90° Spill Light |
| x) CCT 7 CCT Plate Matches Housing sor for ON/OFF Operation ^a ansor for Bi-Level ¹ ¹ (XX=Pendant Length in in - 48.0° max) ¹⁰ House Side Shield ¹¹ Driver ¹² | Accessories (Order Separately) ²⁰ OA/RA1016=NEMA Twistlock Photoc: OA/RA1027=NEMA Twistlock Photoc: OA/RA1021=NEMA Twistlock Photoc: OA/RA1013=Photocontrol Shorting C LB/HSS-21=Field Installed House Side "E" LightBARs ^{11, 15} LB/HSS-07=Field Installed House Side "F" LightBARs ^{11, 15} Mounting Accessories (Order Separat Classical VA6150-XX=Bishop Wall Mount Arm VA6151-XX=Bishop Wall Mount Arm VA6152-XX=Traditional Wall Mount Ar VA6152-XX=Traditional Wall Mount A VA6153-XX=Traditional Single Pole Mour VA6155-XX=Bishop Twin Pole Mount VA6155-XX=Bishop Twin Pole Mount VA6156-XX=Bishop Twin Pole Mount VA6156-XX=Traditional Single Pole Mourt VA6156-XX=Traditional Single Pole Mount VA6156-XX=Traditional Single Pole Mount VA6156-XX=Traditional Single Pole Mount VA6156-XX=Traditional Single Pole M VA6161-XX=Traditional Single Pole M VA6166-XX=Traditional Twin Pole MC | ontrol - 480V ontrol - 347V ap a Shield for a Shield for a Shield for ely) with Cross Rod vrm vrm with 45° Strap it Arm vith Cross Rod Arm fount Arm with Cross Rods lount Arm lount Arm with Rounded Upper Bar lount Arm with A5° Upper Strap uont Arm with 45° Lower Bar lount Arm with 45° Lower Bar lount Arm with A5° Lower Bar lount Arm with Rounded Upper Bars punt Arm with Rounded Upper Bars punt Arm with 45° Upper Bars uont Arm with 45° Upper Bars punt Arm with 45° Upper Bars | 4 | 17 17 Finial ¹⁷ | otacle ¹⁸ | | | Finish MS-LXX=Motion Sen MS/X-LXX=Motion S Switchin PMXX=Pendant Mou Inches, 9.5* m | CCT 7 CCT 7 Plate Matches Housing sor for ON/OFF Operation * ensor for Bi-Level 9 * ti (XX-Pendant Length in in ~48.0° max) ¹⁹ House Side Shield ¹¹ | 0A/RA1027=NEM 0A/RA1013=Phot UA/RA1013=Phot LB/HSS-21=Field "F" LI B/HSS-07=Field "F" LI Mounting Access Classical VA6150-XX=Bishc VA6151-XX=Bishc VA6153-XX=Tradi VA6155-XX=Bishc VA6155-XX=Bishc VA6155-XX=Bishc VA6155-XX=Bishc VA6155-XX=Bishc VA6155-XX=Bishc VA6155-XX=Bishc VA6155-XX=Tradi VA6161-XX=Tradi VA6165-XX=Tradi VA6165-XX=Tradi VA6165-XX=Tradi VA6165-XX=Tradi VA6165-XX=Tradi VA6165-XX=Tradi VA6165-XX=Tradi VA6165-XX=Tradi | A Twistlock Phot MA Twistlock Phot MA Twistlock Phot Cocontrol Shoring Installed House S ightBARs ^{m. 16} Installed House S ightBARs ^{m. 16} ories (Order Sepa ap Wall Mount Ar op Wall Mount Ar op Wall Mount Ar itional Wall Mount ap Single Pole Mo op Single Pole Mo op Single Pole Mo op Single Pole Mo op Single Pole Mo ap Twin Pole Mou ap Twin Pole Mou ap Twin Pole Mou ap Single Pole Itional Single Pole Itional Single Pole Itional Single Pole Itional Single Pole Itional Twin Pole | ocontrol - 347V g Cap idea Shield for idea Shield for idea Shield for rately) rm rm with Cross Rod it Arm with Cross Rod it Arm unt Arm with 45° Strap ount Arm with 45° Strap ount Arm with Cross F e Mount Arm with Cross e Mount Arm with 48° e Mount Arm with 48° |
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| y bar count. Consult factory. Reg for lead times and multiplier. minaire. Available in E01-E04 an minaire. Available in E02-E04 an). Maximum four bars in low out PMXX* must be used with Invue 48°, consult your lighting repre- ta and SL4 distributions. for external 0-10V control system dift. Use and the statistic statistic statistic on at arms. gnEAR. pendant mount "PM48° or bish cound straight pole. tions with this designated prefit be separately analyzed under | uires quantity of two or more LightBARs. d F01-F04 configurations. Replace "XX" with mo d F02-F04 configurations. Replace "X" with num put mode. Consult factory for additional informs Pendant mount kit only. Includes pendant pipe, sentative at Cooper Lighting Solutions for more : n (by others). K-R. op wall mounts. x are built to be compliant with the Buy Americ domestic preference requirements. | unting height in feet for proper lens selectio ber of LightBARs operating in low output m tion. wwwel hangar and canopy cover. Other pen information. | ode and replace XX with m | ounting height in feet for ed in inches (XX). Minimu | proper lens n pendant length is | | | Sensor mounted to the inselection, (e.g., MS/34.22) Peridant mount option 9:1(2): For lengths above 11, Only for use with SL2, 12. Dimming leads provide 13. Replace XX with color 14. Only available with fract 15. One required for each 1. Add as puffy to mount 16. | for external 0-10V control system (uffix. litional arms. ightBAR. 1g accessory. Example: VA6106-BK , pendant mount "PM48" or bishop | F02-F04 configurations at mode. Consult factor endant mount kit only, entative at Eaton for mo by others). -R. | s. Replace 'X' with n ry for additional infor includes pendant pip | umber of LightBARs ope mation. |
| PER Solutions | d under domestic preference requirements. Co | nsult factory for further information. | | Decem | TD500028EN Iber 8, 2021 2:28 PM | | | Parvering Business Work | 11 Pe P: | ton 21 Highway 71 South achtree City, GA 30269 770-486-4800 ww.eaton.com/lighting | dimensions sub | ject to |
| TO SCALI <u>Notes:</u> I. LIGHT FIXTU | E E RE TO BE MANUFACTURED I URE TO BE BLACK. | | | _ | | D | | | HT F NOTES: I. LIGHT FIXTURE T 2. POLE ARM ORT 3. LIGHT FIXTURE | TO BE MANUF DERING NUMB | ACTURED B ER: VA6154 | Y EATON LIG |
| ION IORS5BK Shaft Size at Base (Inches) 5=5" | | 4* O.D. Tenon' AP=Grey BK=Black BZ=Bronze DP=Dark Platinum GM=Graphite Meta GN-Hartford Green WH=White | G-Ground Lug | nce | ASPEN | DECORATIVE POLES | | ORDERING INFORMATIC SAMPLE NUMBER: ASP0840 Base Type Mounting Height (Fee ASP=Aspen 08=8' 10=10' 12-12' 14=14' 16=16' 18=18' NOTES: 1. Provides 4' tenon on additional information. BASE HEIGHT: 40' BOLT CIRCLE: 15' | RS5BK t) Shaft Size at (Inches) (II 5=5° 24 33 | =0.250' | RS=Round 4 Straight 5 SF-Straight Fluted | 4=4° O.D. Tenon 5=3° O.D. Tenon |
| ION 41RS5BK (Feet) Shaft Size at Base (Inches) (B=8*)) pole top. | | Luminaire Color S=3' O.D. Tenon AP=Grey BK-Black BZ=Bronz DP=Dark Platin GM=Grapj Metal GN-Hartfe Green WH=White | ite Outlet ic G=Ground Lug rd | , | BROADWAY | | | ORDERING INFORMATIC SAMPLE NUMBER: BWR084 Base Type Mountin Height (BWR-Broadway 08=8 10-10 12-12 14=14 16-16 16:16 18-18 20-20 25-25 30=30 NOTES: 1. Pole tapers to 4" at p BASE HEIGHT: 42" | RSSBK g Feet) Base (Inches) (8=8") | Wall Thickness (Inches) 1=0.156 2=0.188 3=0.250 | s Shaft Type RT=Round Tapered | Luminair 5=3° O.D. |
| | Wall Thickness (Inches) Shaft Type 0=0.125' RS=Round Straight SF=Straight Fluted seights. 5" shaft size available in 8', 10', 12', 14 tenon on 4" shafts allowing slip over of Epic C | | er Convenience Outlet G=Ground Lug vailable in 12', 14', 16' and | | | | | ORDERING INFORMATIC SAMPLE NUMBER: CHI0840I Base Type Mountin, Height (f CHI=Charleston 08-8 10-10' 12-12' 12-12' 14-14' 16-16' 18-18' NOTES: 1.4' shaft size available 18' mounting heights. 2. Provid specifications for additional infor BASE HEIGHT: 32'' BOLT CIRCLE: 10-3/4' | RS5BK eet) Shaft Size at Base (Inches) ¹ 4=4" 5-5" 6=6" In 8', 10' and 12' mounting heigt s 4' tenor on 5" shafts or no ten | | RS=Round Straight SF=Straight Fluted | |
| TION 40RS5BK htt (Feet) Shaft Size at Base (Inches 4-4" 5-5" 4-4" 5-5" | | ed Tenon BK=Black 5=3° O.D. Tenon BZ=Bronze DP-Dark P GM=Graph Metall GN=Hartlo Green WH=White | atinum E-GFI te Convenier c Outlet d G-Ground Li | for noe ag | HESAPEAKE | | | ORDERING INFORMATI SAMPLE NUMBER: CPR084 Base Type Mount Height CPR-Chesapeake 08-8 10-10 12-12 14-14 NOTES: 1. Provides 4* tenor on additional information. | RS5BK (Feet) Shaft Size at Base (Inches) 4-4" 5=5" | Wall Thickness (Inches) 0-0.125° 2=0.188° s allowing slip over of | RS Round Stra SF=Straight Flu | Ited Tenon 5=3° O.D. Te |
| Cooper Lighting will supply info is failure as the regult of a third j aund the product. biject to change without notice. | rs. signs, cameras or permants for which the pr ormation regarding total loading capacity. Coop party act or omission, misuse, unanticipated us Consult your Cooper Lighting Representative Lighting by Eaton Product Select | er Lighting's Pole Warranty is void unless ses, fatigue failure or similar phenomena re or visit www.cooperlighting.com for availa | poles are used and installe sulfing from induced vibra ale options, accessories a | ed as a complete pole/lun ation, harmonic oscillation | vinaire combination. | INVUE | | BASE HEIGHT: 46-5/8* BOLT CIRCLE: 13-1/4* WARNING: The use of unauthorize properly damage. Upon request, C This warranty sepcifically excludes with movement of air currents arou Specifications and dimensions sub | soper Lightling will supply informa failure as the result of a third part di the product. eet to change without notice. Co | ition regarding total loa y act or omission, mis nsult your Cooper Ligh | ading capacity. Coo iuse, unanticipated u hting Representative | per Lighting's Pole Wa uses, fatigue failure or |
| O SCALE D BE MANUFACTURE CT ORDERING NUME POLE TO BE BLACK | ETAIL F D MITHI D MITHI ED BY EATON OR APPROVE BER, BWR-18-8-2-RT-5-BK S FIELD TO MEET 18' MOUNTIN | N PLAN ed equal. | | | REAS | | | POLE I NITHIN NOT TO SCAL POLE TO BE MANUFAC PRODUCT ORDERING S. LIGHT FOLE TO BE B POLE TO BE TRIMME | PARK E TURED BY EATON (NUMBER: BWR-18-8 LACK. | CING DR APPROVE -2-RT-5-BK | ED EQUAL. | OT F |
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RAISED CONCRETE BASE FOR LIGHT FIXTURES LOCATED WITHIN PARKING LOT PAVEMENT AREAS NOT TO SCALE



ze at Wall Thickness Shaft Type Luminaire Color

VA6153-XX=Traditional Wall Mount Arm with 45° Strap VA6153-XX=Bishop Single Pole Mount Arm VA6155-XX=Bishop Single Pole Mount Arm With Cross Rod



ETAIL FOR FIXTURES LOCATED PARKING LOT PAVEMENT AREAS

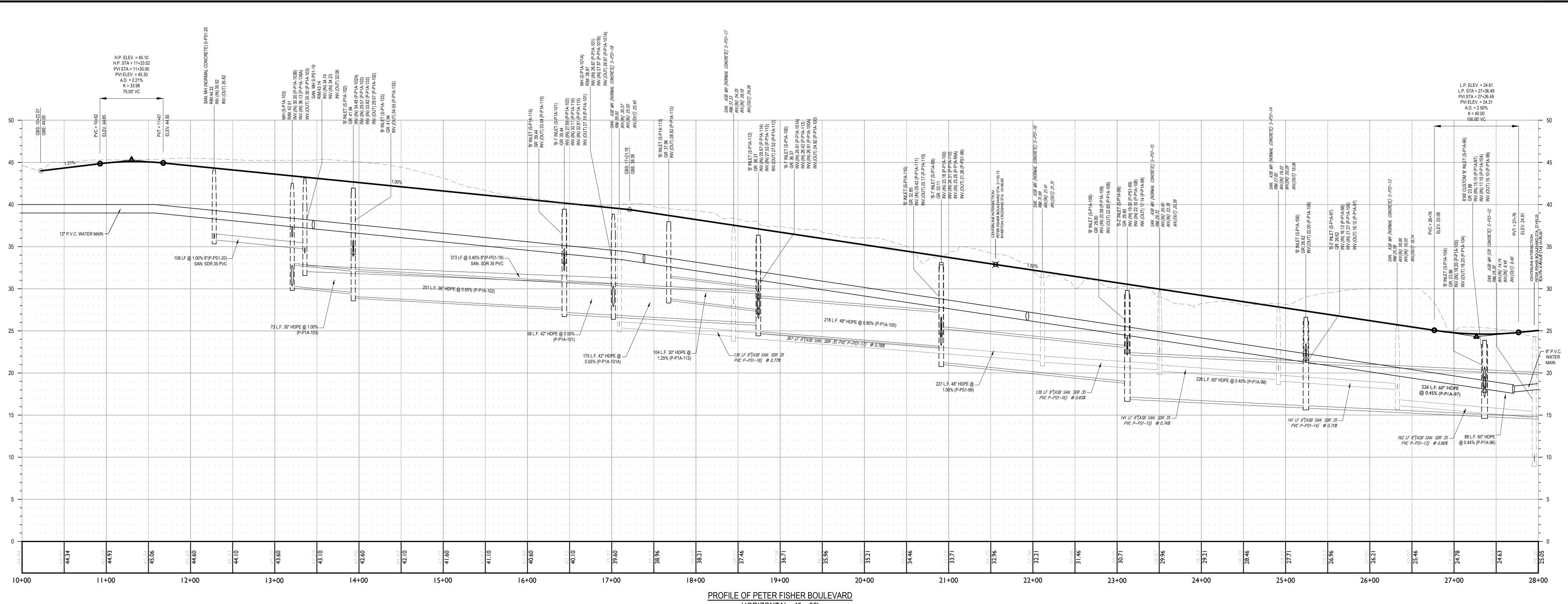
. IELD FOR 3'-0" EXPOSED FOOTING WITHIN PARKING AREA PAVEMENT

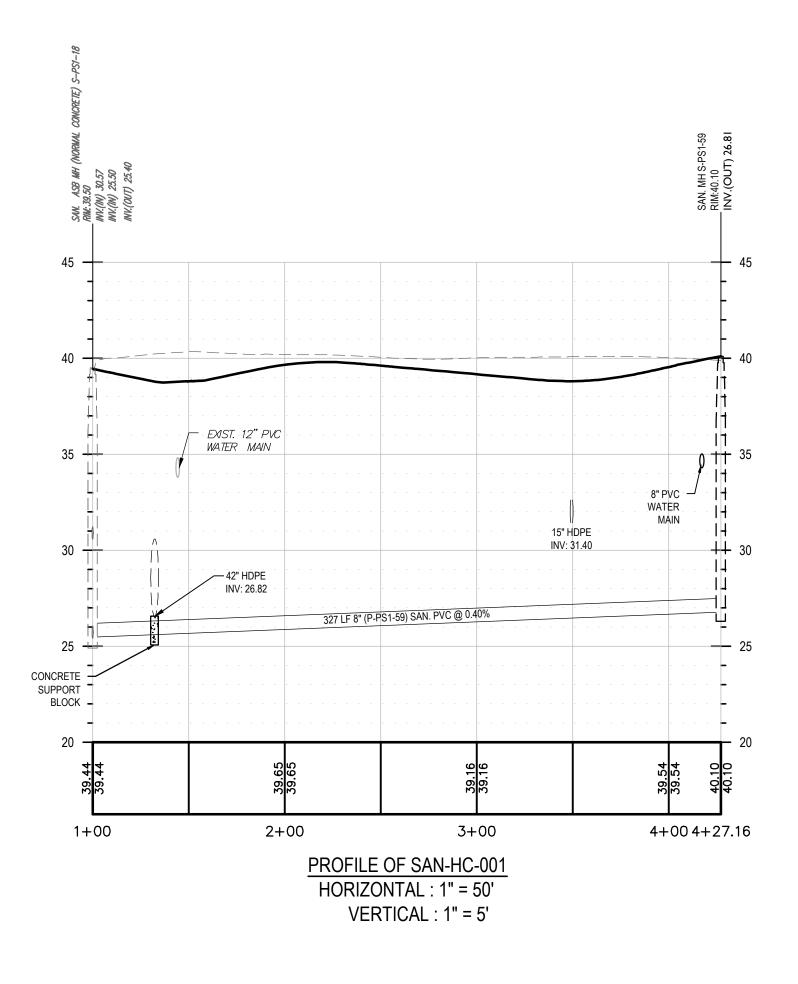
ECM/EMM EPIC MEDIUM LED page 4 ORDERING INFORMATION Sample Number: ECM-E04-LED-E1-T2-FL-GM Product Family 1 Number of LightBARs 2.3 Lamp Type Voltage Mid Section Type Shade Type Color Distributio AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White ECM=Epic Classical E01=(1) 21 LED LightBAR LED=Solid SO=Solid SR=Solid Rings BL=Bell FL=Plute T2=Type II T3=Type III T4=Type IV SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL3=Type III w/Spill Control E02=(2) 21 LED LightBARs EMM=Epic Modern E03=(3) 21 LED LightBARs Emitting 480=480V * Diodes SL4=Type IV w/Spill Control 5MQ=Type V Square Medium 5WQ=Type V Square Wide F03=(3) 7 LED LightBARs F04=(4) 7 LED LightBARs 5XQ=Type V Square Extra Wide RW=Rectangular Wide SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right Options (Add as Suffix) Accessories (Order Separately) OA/RA1016=NEMA Twistlock Photocontrol - Multi-Tap Accessory Option 7030=70 CRI / 3000K CCT 7 7050=70 CRI / 5000K CCT 7 OA/RA1027=NEMA Twistlock Photocontrol - 480V OA/RA1201=NEMA Twistlock Photocontrol - 347V OA/RA1013=Photocontrol Shorting Cap LB/HSS-21=Field Installed House Side Shield for V=Victorian Finial ¹⁷ M=Modern Finial ¹⁷ A=Architectural Finial ¹⁷ N=Nostalgic Finial ¹⁷ R=NEMA Twistlock Photocontrol Receptacle ¹⁶ 8030=80 CRI / 3000K CCT 7 LCF=LightBAR Cover Plate Matches Housing Finish MS-LXX=Motion Sensor for ON/OFF Operation * MS/X-LXX=Motion Sensor for Bi-Level Control for a sensor for Bi-Level MS/X-LXX=Motion Sensor for Bi-Level Switching * PMXX=Pendant Mount (XX=Pendant Length in Inches, 9.5° min - 48.0° max) * Mounting Accessories (Order Separately) Classical VA6150-XX=Bishop Wall Mount Arm VA6151-XX=Bishop Wall Mount Arm with Cross Rod VA6152-XX=Traditional Wall Mount Arm VA6153-XX=Traditional Wall Mount Arm VA6153-XX=Traditional Wall Mount Arm HSS=Factory Installed House Side Shield " DIM=0-10V Dimming Driver ¹² VA6154-XX=Bishop Single Pole Mount Arm VA6154-XX=Bishop Single Pole Mount Arm VA6155-XX=Bishop Single Pole Mount Arm with Cross Rod VA6156-XX=Bishop Twin Pole Mount Arm With Cross Rods VA6157-XX=Bishop Twin Pole Mount Arm With Cross Rods VA6158-XX=Traditional Single Pole Mount Arm With Rounded Upper Bar VA6169-XX=Traditional Single Pole Mount Arm With Rounded Lower Bar VA6161-XX=Traditional Single Pole Mount Arm With Rounded Lower Bar VA6161-XX=Traditional Single Pole Mount Arm With 45° Upper Bar VA6161-XX=Traditional Single Pole Mount Arm With 45° Upper Bar VA6161-XX=Traditional Single Pole Mount Arm With 45° Upper Bar VA6161-XX=Traditional Single Pole Mount Arm with 45° Upper Bar VA6162-XX=Traditional Single Pole Mount Arm with 45° Upper Strap VA6163-XX=Traditional Twin Pole Mount Arm with 45° Upper Strap VA6165-XX=Traditional Twin Pole Mount Arm with Rounded Upper Bars VA6167-XX=Traditional Twin Pole Mount Arm with Rounded Lower Bars * VA6168-XX=Traditional Twin Pole Mount Arm with 45° Upper Bars VA6169-XX=Traditional Twin Pole Mount Arm with 45° Upper Bars * VA6169-XX=Traditional Twin Pole Mount Arm with 45° Upper Bars * VA6170-XX=Traditional Twin Pole Mount Arm with 45° Upper Straps VA6170-XX=Traditional Twin Pole Mount Arm with 45° Upper Straps VA6171-XX=Mast Arm Adapter Modern VA617-XX=IMast Arm Adapter Modem VA6101-XX=Bishop Wall Mount Arm VA6102-XX=Bishop Wall Mount Arm with Cross Rod VA6103-XX=Traditional Wall Mount Arm VA6104-XX=Traditional Wall Mount Arm VA6106-XX=Bishop Single Pole Mount Arm VA6106-XX=Bishop Single Pole Mount Arm VA6106-XX=Bishop Twin Pole Mount Arm VA6107-XX=Bishop Twin Pole Mount Arm with Cross Rod VA6107-XX=Traditional Single Pole Mount Arm VA6108-XX=Traditional Single Pole Mount Arm with Rounded Upper Bar VA6111-XX=Traditional Single Pole Mount Arm with Rounded Lower Bar ¹⁴ VA6112-XX=Traditional Single Pole Mount Arm with Kounded Lower Bar ¹⁴ VA6114-XX=Traditional Single Pole Mount Arm with 45° Upper Strap VA6116-XX=Traditional Single Pole Mount Arm with 45° Upper Strap VA6116-XX=Traditional Twin Pole Mount Arm with Rounded Upper Bars VA6118-XX=Traditional Twin Pole Mount Arm with Rounded Lower Bars ¹⁴ VA6118-XX=Traditional Twin Pole Mount Arm with Rounded Lower Bars ¹⁴ VA6118-XX=Traditional Twin Pole Mount Arm with Rounded Lower Bars ¹⁴ VA6118-XX=Traditional Twin Pole Mount Arm with Rounded Lower Bars ¹⁴ VA6118-XX=Traditional Twin Pole Mount Arm with Rounded Lower Bars ¹⁴ VA6118-XX=Traditional Twin Pole Mount Arm with 80-upper Bars VA6120-XX=Traditional Twin Pole Mount Arm With 80-upper Bars VA6120-XX=Traditional Twin Pole Mount Arm With 85° Upper Bars VA6120-XX=Traditional Twin Pole Mount Arm With 85° Upper Bars VA6120-XX=Traditional Twin Pole Mount Arm With 85° Upper Bars VA6120-XX=Traditional Twin Pole Mount Arm With 85° Upper VA6120-XX=Traditional Twin Pole Mount Arm with 45° Lower Bars * VA6121-XX=Traditional Twin Pole Mount Arm with 45° Upper Straps VA6122-XX=Mast Arm Adapter NOTES: 1. Arm not included. Order separately. See access ories. 2. Standard 400K CCT and greater than 70 RI. 3. 21 LED LightBAR powered by \$50mA and 7 LED LightBAR powered by 1A. 4. Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg. 3. Dolthe and Three Reser Grouped Delta environment. nd Three Phase Corner Grounded Delts systems). 3 and RAL color matching available upon request. Consult your lighting representative at Eaton for more information, vel output varies by bar count. Consult factory. Requires quantity of two or more LightBARs. es and multiplier. Jiable In E01-E04 and F01-F04 configurations. Replace "XX" with mounting height in feet for proper lens selection, (e.g., MS-L26). Consult factory for additional information. Jiable In E02-E04 and F01-F04 configurations. Replace "X" with mounting height in feet for proper lens four bars in low output mode. Consult factory for additional information. Is be used with Invue Pendant mount kit only. Includes pendant pipe, swivel hangar and canopy cover. Other pendant lengths can be specified in inches (XX). Minimum pendant length is a set of the s ". For lengths above 48", consult your lighting representative at Eat for use with SL2, SL3 and SL4 distributions. Thing leads provide for external 0-10V control system (by others). see XX with color suffix. scalable and traditional same ix to mounting accessory. Example: VA6106-BK-R. le with finials, pendant mount "PM48" or bishop wall mounts. se of 4" O.D. round straight pole. Eaton 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.eaton.com/lighting FAT•N Specifications and dimensions subject to shange without notice. TD500028EN January 4, 2019 8:54 AM <u>LIGHT FIXTURE 'B-4' DETA</u>IL NOT TO SCALE NOTES: I. LIGHT FIXTURE TO BE MANUFACTURED BY EATON LIGHTING OR APPROVED EQUAL, 2. POLE ARM ORDERING NUMBER: VAGI56-BK 3. LIGHT FIXTURE TO BE BLACK. 1SI Catalog #: Prepared By : ____ Mirada Medium Wall Sconce (XWM) Outdoor Wall Sconce 📕 💯 🏩 🦚 IP65 IK08 OVERVIEW Lumen Package 3,000 - 21,000 Wattage Range 23 - 175 Efficacy Range (LPW) 125 - 158 QUICK LINKS 27 (12.2) Weight lbs(kg) Ordering Guide Performance Photometrics Dimensions Control Options IMSBT, ALB, ALS, PCI **FEATURES & SPECIFICATIONS** Construction 0-10V dimming (10% - 100%) standard. LSI's AirLink[™] Blue lighting control system Rugged die-cast aluminum housing contains Standard Universal Voltage (120-277 Vac) is a simple feature rich wireless Bluetooth mesh network. The integrated fixture sensor factory prewired driver and optical unit. Input 50/60 Hz or optional High Voltage module provides wireless control of grouped (347-480 Vac). Hinged die-cast aluminum wiring access door L80 Calculated Life: >100k Hours fixtures based on motion sensors, davlight or located underneath. a fully customizable schedule. Galvanized-steel universal wall mount bracket Total harmonic distortion (THD): <20% comes standard with hinging mechanism 3L to 12L operating temperature: -40°C to Installation to easily access the junction box wire +50°C (-40°F to +122°F) Universal wall mounting plate easily mounts connections without removing the luminaire. 15L operating temperature: -40°C to +45°C directly to 4" octagonal or square junction Optional pole-mounting bracket (XPMA) (-40°F to +113°F). permits mounting to standard poles. 2 fasteners secure the hinged door 18L operating temperature: -40°C to +40°C underneath the housing and provide quick & easy access to the electrical compartment for Fixtures are finished with LSI's DuraGrip[®] (-40°F to +104°F). polyester powder coat finishing process. The • 21L operating temperature: -40°C to +35°C DuraGrip finish withstands extreme weather (-40°F to + 95°F). installing/servicing. changes without cracking or peeling. Other Power factor (PF): >.90 • Optional terminal block accepts up to 12 ga standard LSI finishes available. Consult wire. Input power stays constant over life. factory. Optional 10kV surge protection device meets Warranty Max shipping weight: 30lbs in carton a minimum Category C Low operation (per LSI luminaires carry a 5-year limited warranty. Optical System ANSI/IEEE C62.41.2). Refer to https://www.lsicorp.com/resources/ State-of-the-Art one piece silicone optic High-efficacy LEDs mounted to metal-core <u>terms-conditions-warranty/</u> for more provides industry leading optical control circuit board to maximize heat dissipation information. while also acting as an integrated gasket Components are fully encased in potting • 1 Year warranty on Battery Back-up option. reducing system complexity and improving material for moisture resistance. Driver Listings fixture reliability. complies with FCC standards. Driver and Listed to UL 1598 and UL 8750. Proprietary silicone refractor optics provide key electronic components can easily be Meets Buy American Act requirements. exceptional coverage and uniformity in accessed via hinged door. Types 2, 3, 4, and FT distributions. IDA compliant: with 3000K or lower color Optional integral emergency battery pack temperature selection. Silicone optical material does not yellow or provides 90-minutes of constant power to Title 24 Compliant; see local ordinance for crack with age and provides a typical light the LED system, ensuring code compliance. transmittance of 93-95%. qualification information. A test switch/indicator button is installed Suitable for wet Locations. on the housing for ease of maintenance. Zero uplight. Available in 5000K, 4000K and 3000K The fixture delivers 1500 lumens during IP65 rated luminaire per IEC 60598. color temperatures per ANSI C78.377. Also emergency mode. 3G rated for ANSI C136.31 high vibration applications when pole mounted (using Available in Phosphor Converted Amber with Controls optional XPMA bracket) or wall mounted. Peak intensity at 610nm. Integral passive infrared Bluetooth[™] Minimum CRI of 70. IK08 rated luminiare per IEC 66262 motion sensor options. Fixtures operate mechanical impact code Electrical independently and can be commissioned DesignLights Consortium® (DLC) Premium via an iOS or Android configuration app. High-performance programmable driver qualified product. Not all versions of this Updates and modifications to the control features over-voltage, under-voltage, shortproduct may be DLC Premium qualified. strategy are easily implemented via an circuit and over temperature protection. Please check the DLC Qualified Products intuitive app. Custom lumen and wattage packages List at www.designlights.org/QPL to confirm available. which versions are qualified. LSI Industries Inc. 10000 Alliance Rd. Cincinnati, OH 45242 • (513) 372-3200 • www.lsicorp.com CLSI Industries Inc. All Rights Reserved. Specifications and dimensions subject In industry characterit tolerance: Sovifications on black to determine the second Page 1/7 Rev. 08/03/23 SPEC.1024.C.0823 LIGHT FIXTURE W-I' DETAIL NOT TO SCALE

> NOTES: I. LIGHT FIXTURE TO BE MANUFACTURED BY LSI LIGHTING OR APPROVED EQUAL. 2. FIXTURE IS TO BE WALL MOUNTED. 3. LIGHT FIXTURE TO BE BLACK.

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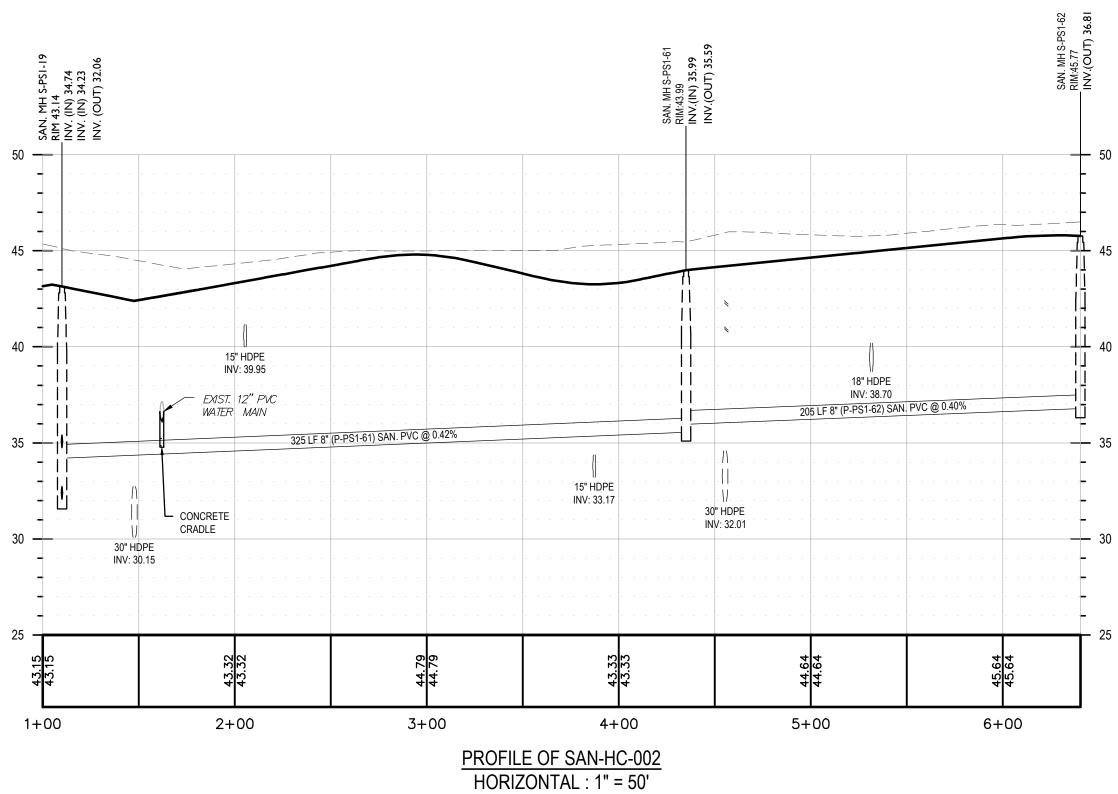
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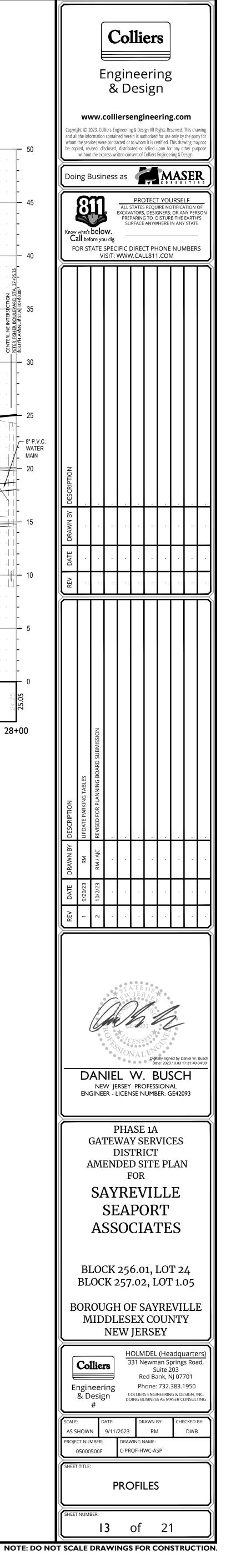


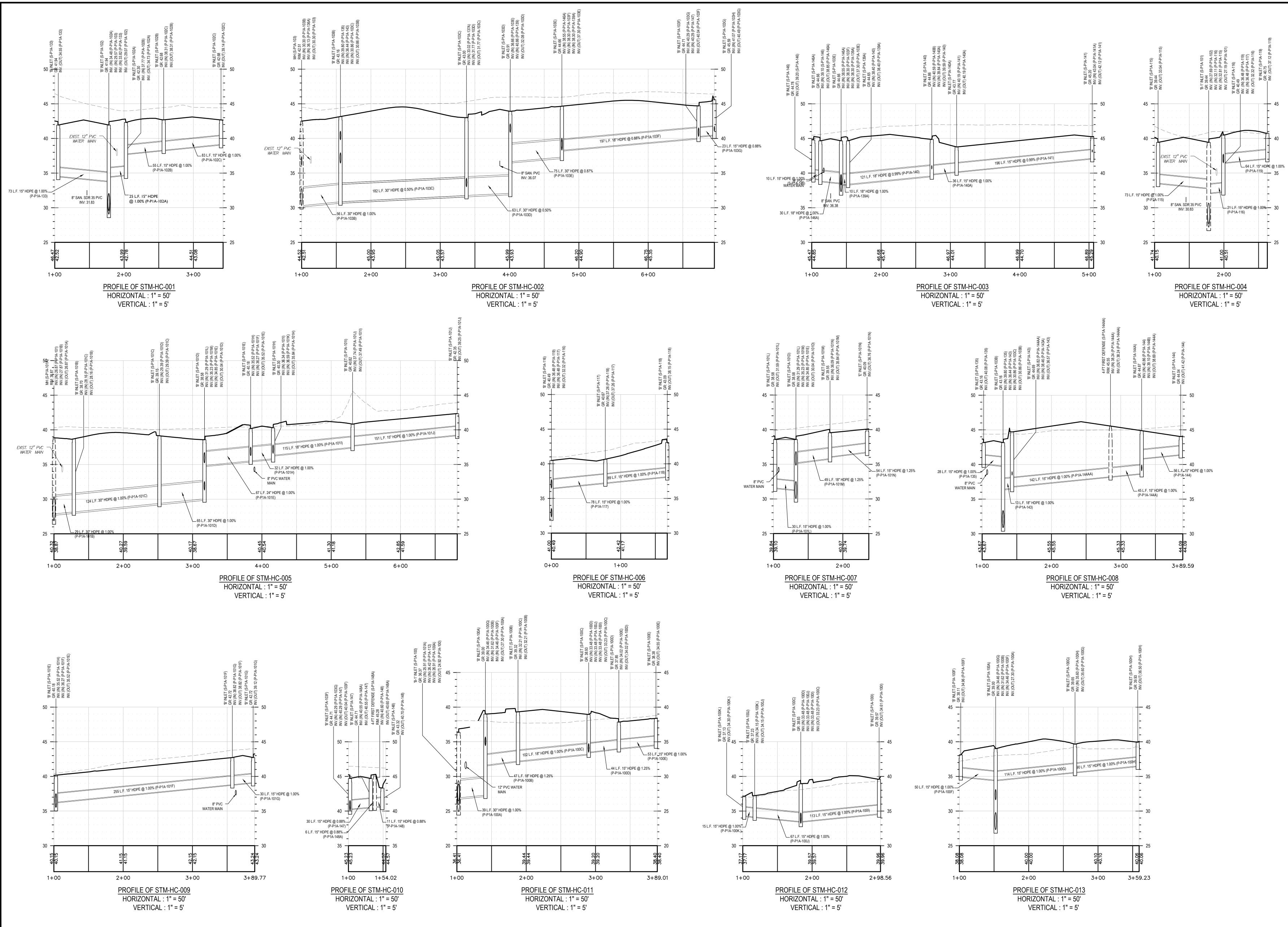
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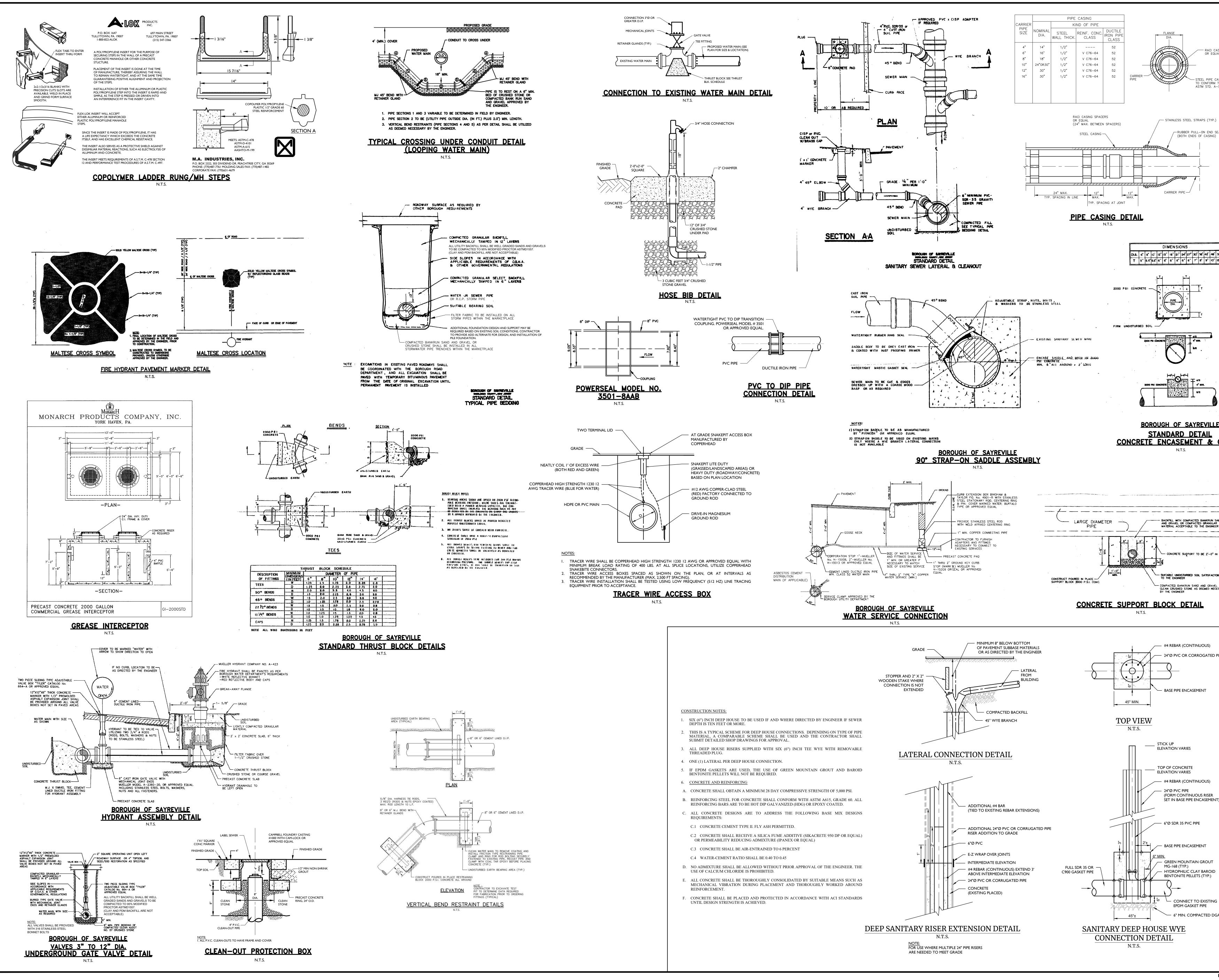
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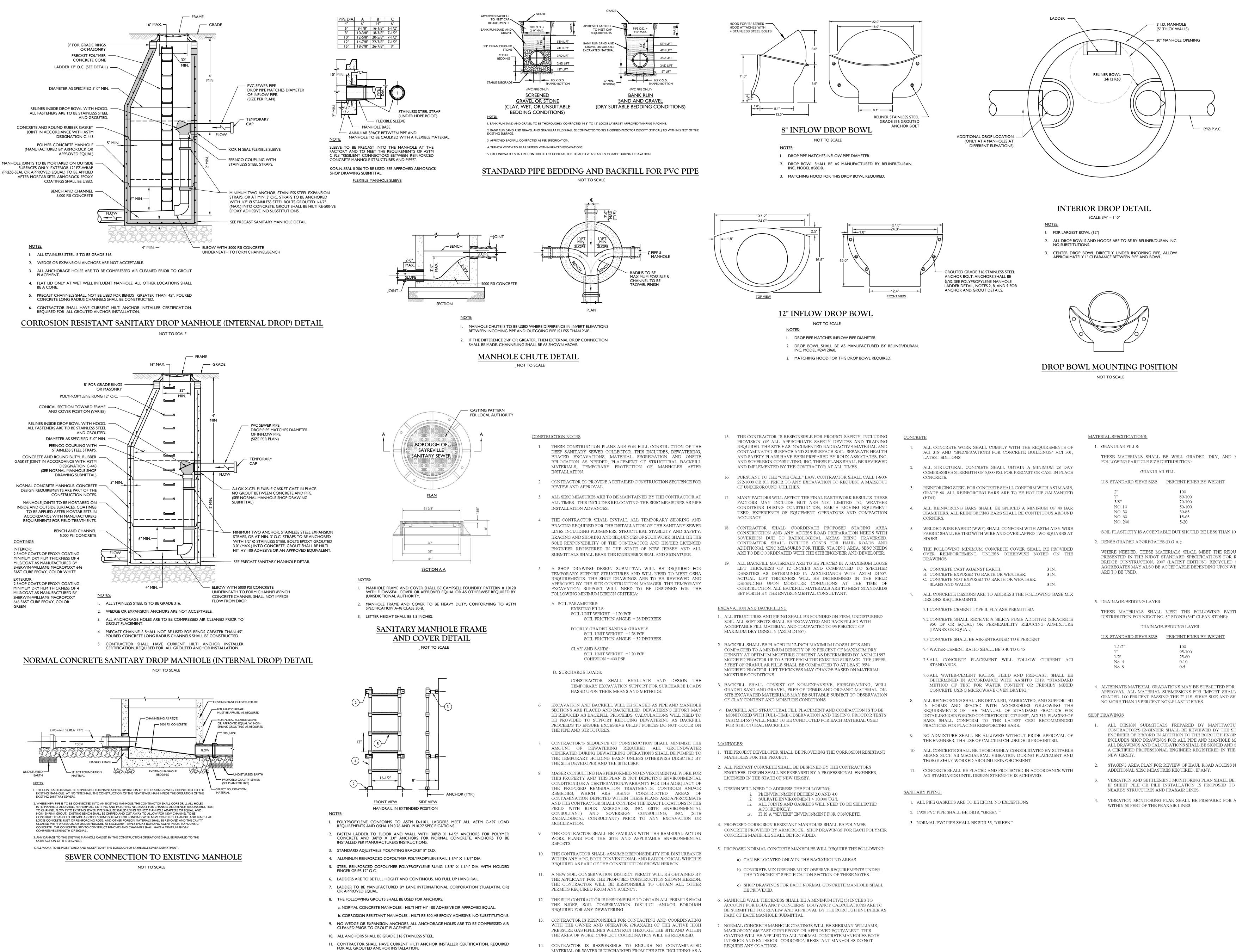
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NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



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- MATERIAL OR WATER IS DISCHARGED FROM THE SITE, INCLUDING AS A RESULT OF CONSTRUCTION ACTIVITIES, STORM EVENTS, TIDAL EVENTS, ETC

| THESE MATERIALS SHALL FOLLOWING PARTICLE SIZE I | BE WELL GRADED, DRY, ANI DISTRIBUTION: |
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| GRANULA | R FILL |
| U.S. STANDARD SIEVE SIZE | PERCENT FINER BY WEIGHT |
| 2" | 100 |
| 1" | 80-100 |
| 3/8" | 70-100 |
| NO.10 | 50-100 |
| NO. 3 0 | 30-85 |
| NO. 60 | 15-65 |
| NO 200 | 5.20 |

SOIL PLASTICITY IS ACCEPTABLE BUT SHOULD BE LESS THAN 1

WHERE NEEDED, THESE MATERIALS SHALL MEET THE REQU PRESENTED IN THE NJDOT STANDARD SPECIFICATIONS FOR BRIDGE CONSTRUCTION, 2007 (LATEST EDITION). RECYCLED AGGREGATES MAY ALSO BE ACCEPTABLE DEPENDING UPON WI

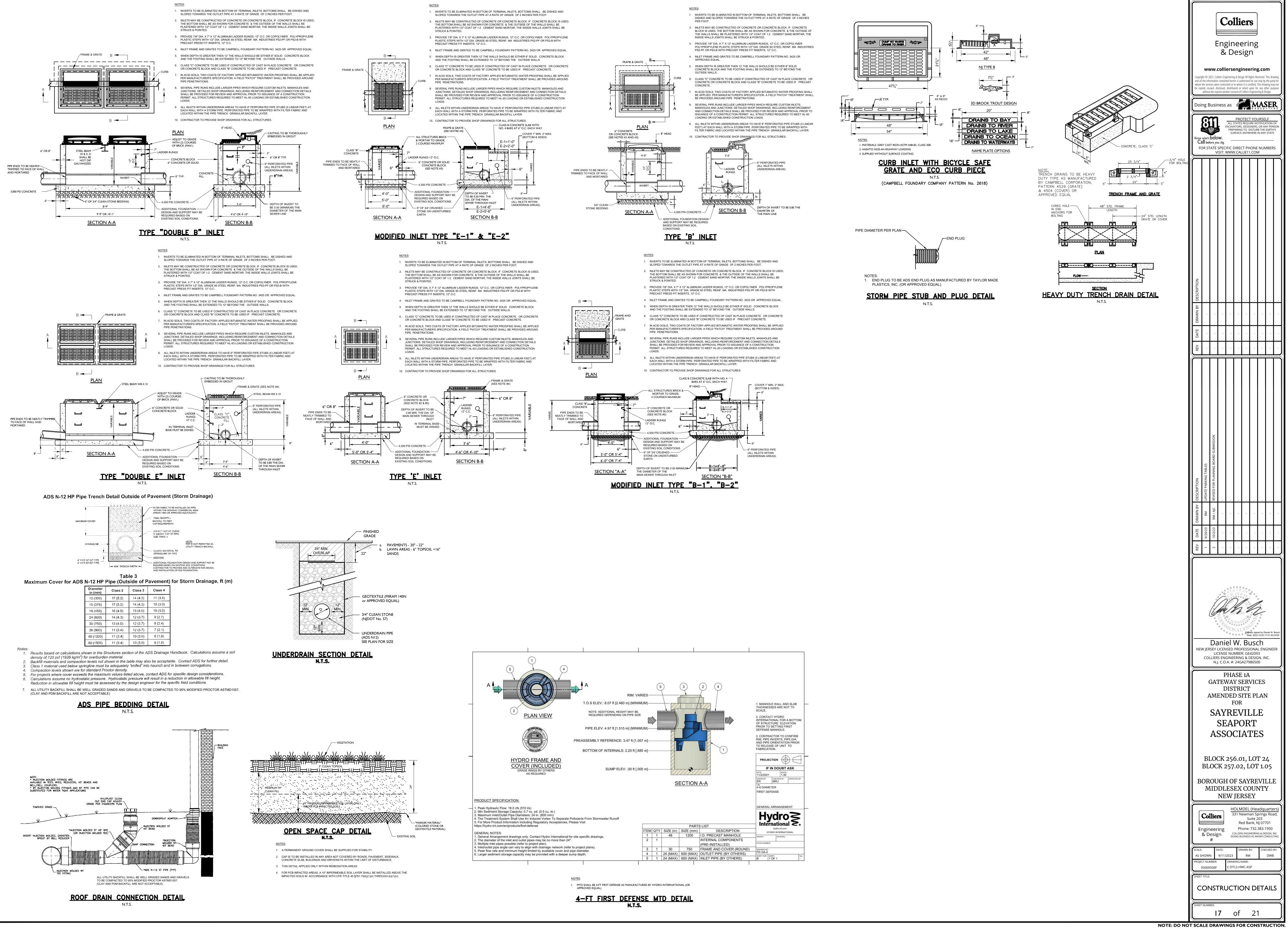
THESE MATERIALS SHALL MEET THE FOLLOWING PARTI DISTRIBUTION FOR NJDOT NO. 57 STONE (3/4" CLEAN STONE):

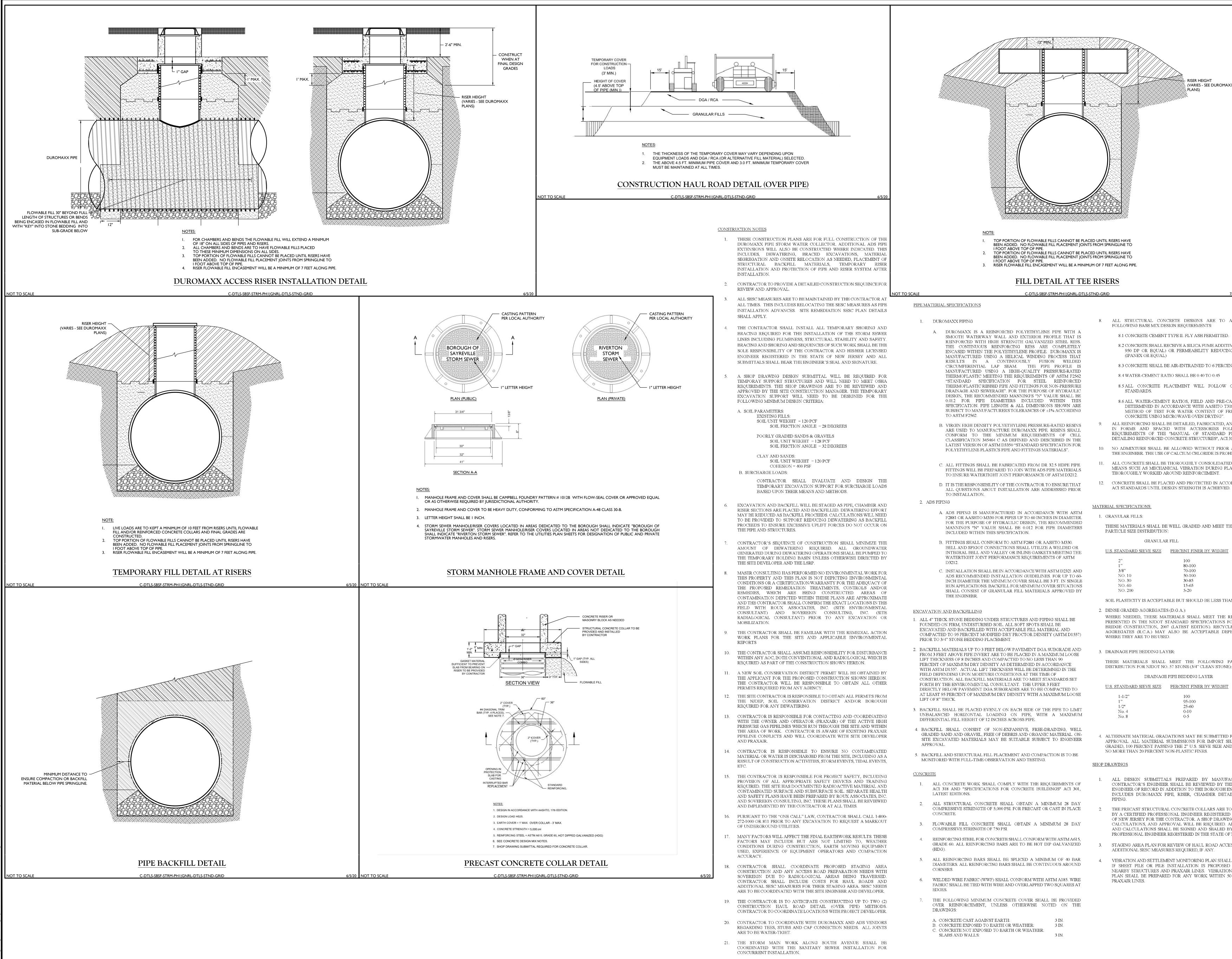
| <u>U.S. STANDARD SIEVE SIZE</u> | PERCENT FINER BY WEIGH |
|---------------------------------|------------------------|
| 1-1/2" | 100 |
| 1" | 95-100 |
| 1/2" | 25-60 |
| No. 4 | 0-10 |
| No. 8 | 0-5 |
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4. ALTERNATE MATERIAL GRADATIONS MAY BE SUBMITTED FOR 1 APPROVAL. ALL MATERIAL SUBMISSIONS FOR IMPORT SHALI GRADED, 100 PERCENT PASSING THE 2" U.S. SIEVE SIZE AND SH

- CONTRACTOR'S ENGINEER SHALL BE REVIEWED BY THE SI ENGINEER OF RECORD IN ADDITION TO THE BOROUGH ENGIN INCLUDES SHOP DRAWINGS FOR ALL PIPE AND MANHOLE M ALL DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND A CERTIFIED PROFESSIONAL ENGINEER REGISTERED IN THE
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8. ALL STRUCTURAL CONCRETE DESIGNS ARE TO AD FOLLOWING BASE MIX DESIGN REQUIREMENTS: 8.1 CONCRETE CEMENT TYPE II. FLY ASH PERMITTED. 8.2 CONCRETE SHALL RECEIVE A SILICA FUME ADDITIV 950 DP OR EQUAL) OR PERMEABILITY REDUCING (IPANEX OR EQUAL) 8.3 CONCRETE SHALL BE AIR-ENTRAINED TO 6 PERCENT 8.4 WATER-CEMENT RATIO SHALL BE 0.40 TO 0.45 8.5 ALL CONCRETE PLACEMENT WILL FOLLOW STANDARDS. 8.6 ALL WATER-CEMENT RATIOS, FIELD AND PRE-CAS DETERMINED IN ACCORDANCE WITH AASHTO T31 METHOD OF TEST FOR WATER CONTENT OF FRE CONCRETE USING MICROWAVE OVEN DRYING". ALL REINFORCING SHALL BE DETAILED, FABRICATED, ANI IN FORMS AND SPACED WITH ACCESSORIES FOLL REQUIREMENTS OF THE "MANUAL OF STANDARD PI DETAILING REINFORCED CONCRETE STRUCTURES", ACI 31 10. NO ADMIXTURE SHALL BE ALLOWED WITHOUT PRIOR THE ENGINEER. THE USE OF CALCIUM CHLORIDE IS PROHI ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED MEANS SUCH AS MECHANICAL VIBRATION DURING PLACE THOROUGHLY WORKED AROUND REINFORCEMENT. CONCRETE SHALL BE PLACED AND PROTECTED IN ACCOR ACI STANDARDS UNTIL DESIGN STRENGTH IS ACHIEVED. MATERIAL SPECIFICATIONS 1. GRANULAR FILLS: THESE MATERIALS SHALL BE WELL GRADED AND MEET THE PARTICLE SIZE DISTRIBUTION: GRANULAR FILL U.S. STANDARD SIEVE SIZE PERCENT FINER BY WEIGHT 80-100 3/8" 70-100 50-100 NO.10 30-85 NO. 30 15-65 NO. 60 5-20 NO. 200 SOIL PLASTICITY IS ACCEPTABLE BUT SHOULD BE LESS THAN 2. DENSE GRADED AGGREGATES (D.G.A.): WHERE NEEDED, THESE MATERIALS SHALL MEET THE REC PRESENTED IN THE NJDOT STANDARD SPECIFICATIONS FOR BRIDGE CONSTRUCTION, 2007 (LATEST EDITION). RECYCLEI AGGREGATES (R.C.A.) MAY ALSO BE ACCEPTABLE DEPEN WHERE THEY ARE TO BE USED. 3. DRAINAGE PIPE BEDDING LAYER: THESE MATERIALS SHALL MEET THE FOLLOWING PA DISTRIBUTION FOR NJDOT NO. 57 STONE (3/4" CLEAN STONE): DRAINAGE PIPE BEDDING LAYER U.S. STANDARD SIEVE SIZE PERCENT FINER BY WEIGHT $1 - 1/2^{\circ}$ 100 95-100 1/2''25-60 0-10 No. 4 No. 8 0-5 ALTERNATE MATERIAL GRADATIONS MAY BE SUBMITTED F APPROVAL. ALL MATERIAL SUBMISSIONS FOR IMPORT SHA GRADED, 100 PERCENT PASSING THE 2" U.S. SIEVE SIZE AND : NO MORE THAN 20 PERCENT NON-PLASTIC FINES. SHOP DRAWINGS 1. ALL DESIGN SUBMITTALS PREPARED BY MANUFAC CONTRACTOR'S ENGINEER SHALL BE REVIEWED BY THE ENGINEER OF RECORD IN ADDITION TO THE BOROUGH EN INCLUDES DUROMAXX PIPE, RISER, CHAMBER DETAIL PIPING THE PRECAST STRUCTURAL CONCRETE COLLARS ARE TO BY A CERTIFIED PROFESSIONAL ENGINEER REGISTERED OF NEW JERSEY FOR THE CONTRACTOR. A SHOP DRAWING CALCULATIONS, AND APPROVAL WILL BE REQUIRED. AI AND CALCULATIONS SHALL BE SIGNED AND SEALED BY

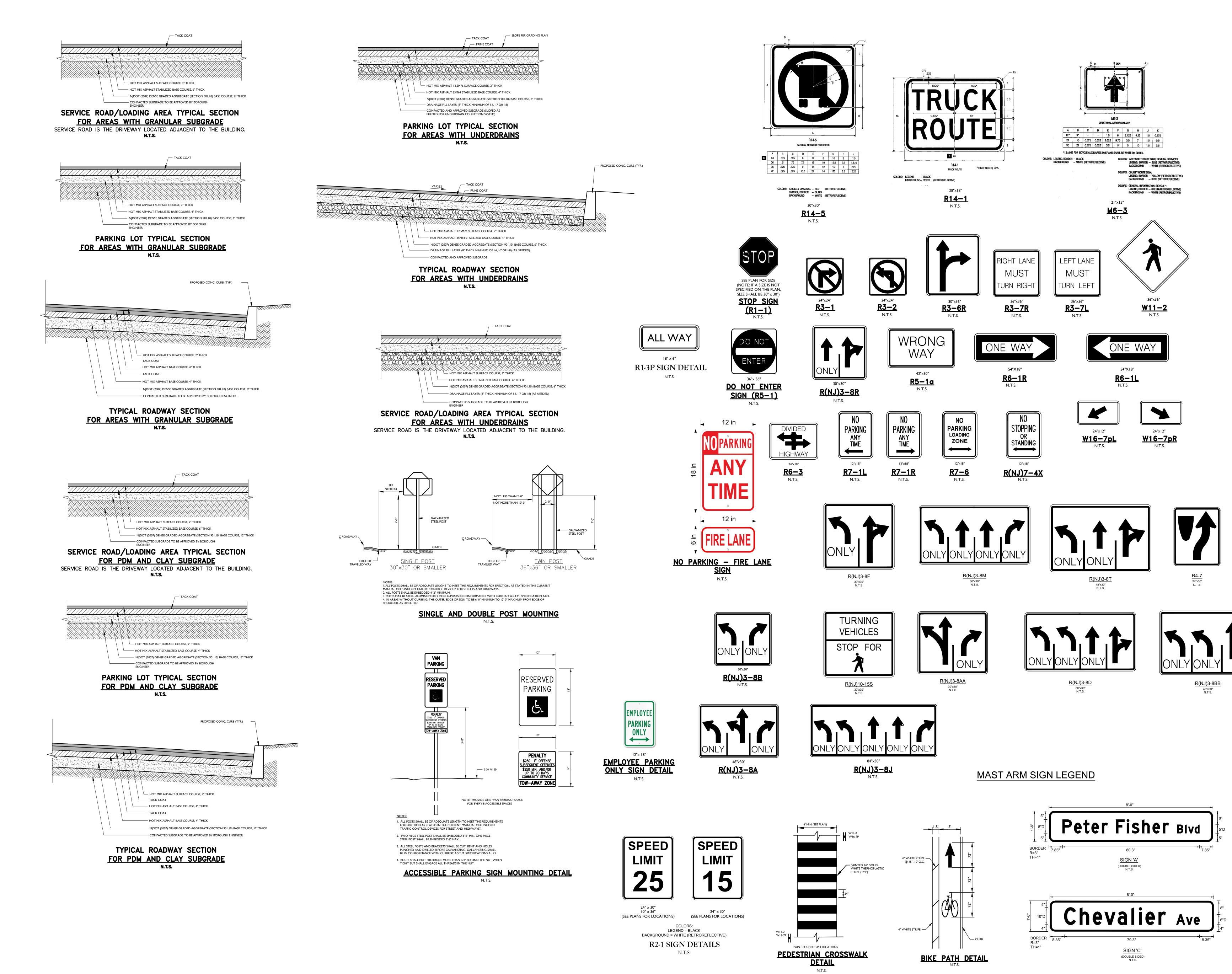
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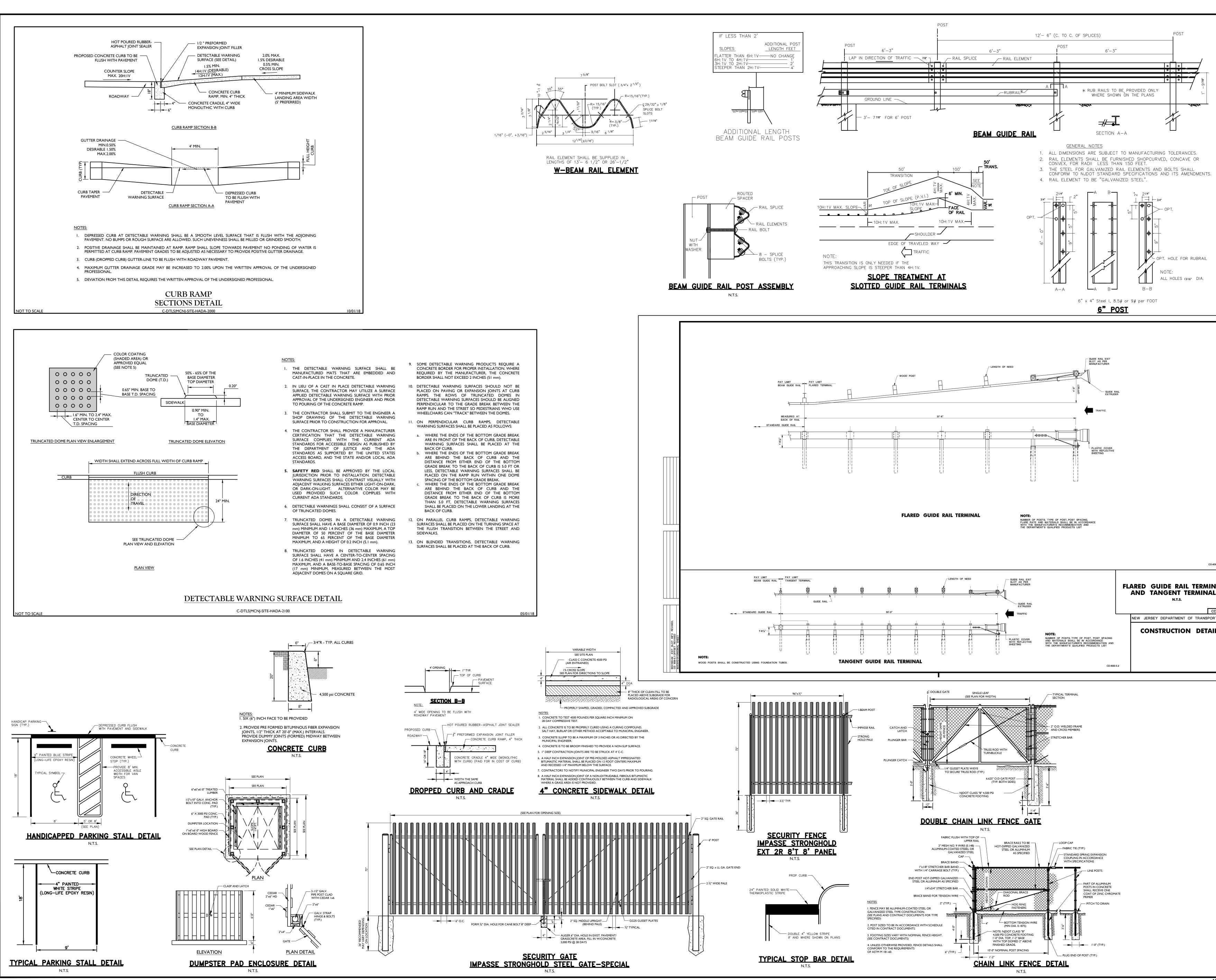
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- STAGING AREA PLAN FOR REVIEW OF HAUL ROAD ACCES ADDITIONAL SESC MEASURES REQUIRED, IF ANY.
- VIBRATION AND SETTLEMENT MONITORING PLAN SHALL IF SHEET PILE OR PILE INSTALLATION IS PROPOSED NEARBY STRUCTURES AND PRAXAIR LINES. VIBRATION N PLAN SHALL BE PREPARED FOR ANY WORK WITHIN 50 H PRAXAIR LINES.

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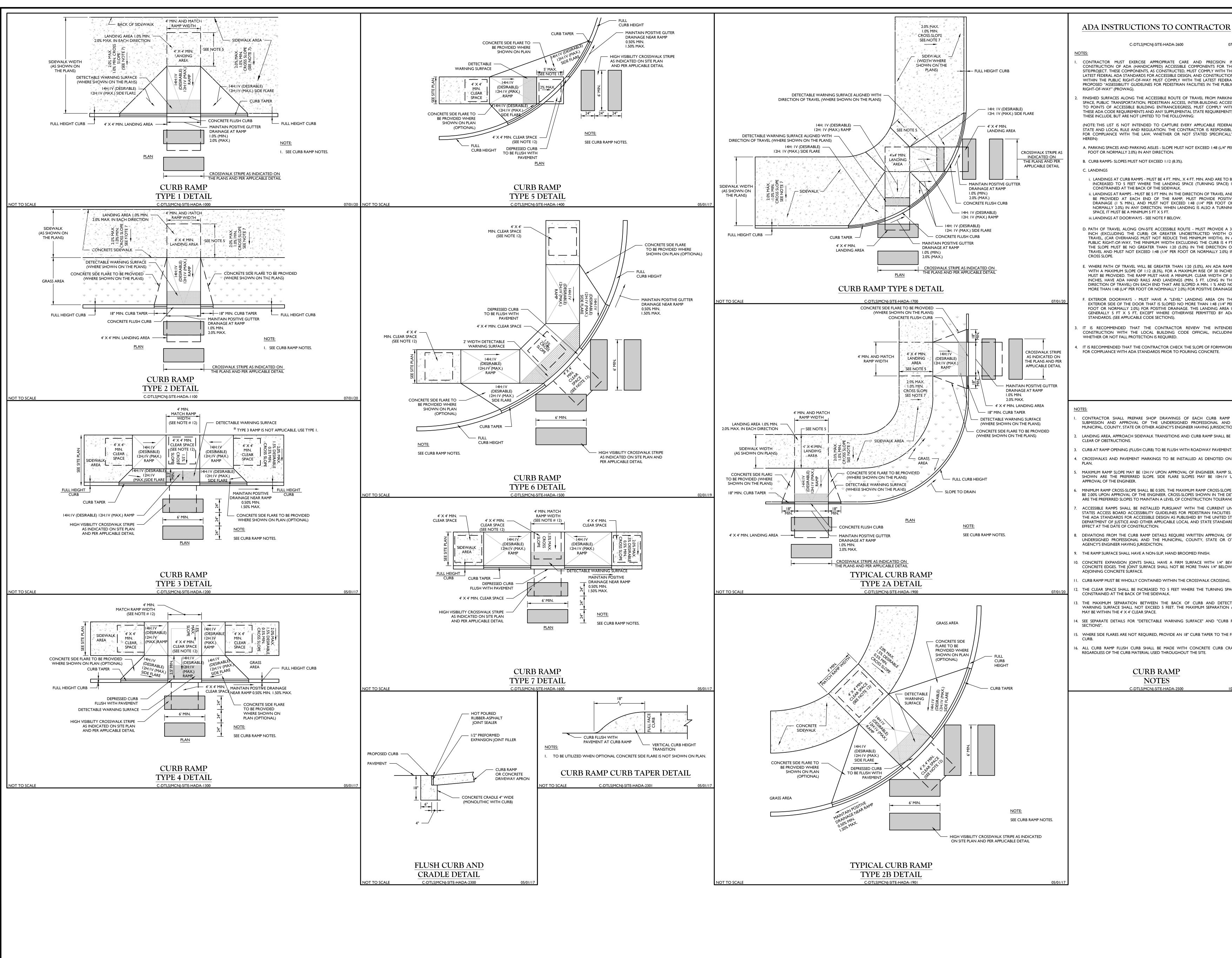


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| CD-609-5 DRTATION | Deniel W. Busch Daniel W. Busch Deniel W. Busch Elicense NUMBER: Ge42093 Colliers Engineering & Design, inc. N.J. C.O.A. #: 24GA27986500 PHASE 1A GATEWAY SERVICES DISTRICT AMENDED SITE PLAN FOR SAYREVILLE SEAPORT ASSOCIATES BLOCK 256.01, LOT 24 BLOCK 257.02, LOT 1.05 BOROUGH OF SAYREVILLE MIDDLESEX COUNTY NEW JERSEY DISTRICT MIDDLESEX COUNTY NEW JERSEY | | | | | | | | | | E E E Sad, NC. |
| | & Design COLLIERS ENGINEERING & DESIGN, INC. DOING BUSINESS AS MASER CONSULTING # COLLIERS ENGINEERING & DESIGN, INC. DOING BUSINESS AS MASER CONSULTING SCALE: DATE: DRAWN BY: CHECKED BY: AS SHOWN 9/11/2023 RM DWB PROJECT NUMBER: DRAWING NAME: O5000500F C-DTLS-HWC-ASP SHEET TITLE: CONSTRUCTION DETAILS SHEET NUMBER: 20 Of 21 SHEET NUMBER: 20 Of 21 | | | | | | | | | | |
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| | E | Colliers 331 Newman Springs Road, Suite 203 Red Bank, NJ 07701 Engineering & Design # Phone: 732.383.1950 Colliers Engineering & Design, INC. DOING BUSINESS AS MASER CONSULTING | | | | | | | | | |
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