PUBLIC NOTICE

REQUEST FOR PERMISSION TO ALTER A U.S. ARMY CORPS OF ENGINEERS PROJECT UNDER SECTION 408

TITLE: Borough of Avalon – Stormwater Outfall Improvements within the Townsends Inlet Seawall at the Townsends Inlet to Cape May Inlet Coastal Storm Risk Management Federal Civil Works Project, Cape May County, New Jersey

PUBLIC NOTICE IDENTIFICATION NUMBER: NAP-2023-00029-95

PUBLIC NOTICE COMMENT PERIOD:

Begins: **06 January 2023**

Expires: 06 February 2023

Interested parties are hereby notified that an application has been received for a Department of the Army Section 408 permission for certain work at or near a federal project of the United States, as described below and shown on attached figures. Written comments are being solicited from anyone having an interest in the requested alteration. Comments will become part of the U.S. Army Corps of Engineers' (USACE's) administrative record and will be considered in determining whether to approve the request. Comments supporting, opposing, or identifying concerns that should be considered by the USACE in its decision process are all welcome.

This public notice is not a paid advertisement and is for public information only. Issuance of this notice does not imply USACE endorsement of the project as described.

- **1. REQUESTER:** In compliance with 33 USC 408 (Section 14 of the Rivers and Harbors Act of 1899; hereinafter Section 408), the Borough of Avalon has requested permission to construct stormwater outfall improvements within the Townsends Inlet seawall at the Townsends Inlet to Cape May Inlet Coastal Storm Risk Management Federal Civil Works Project in Cape May County, New Jersey.
- **2. LOCATION:** The proposed project is located at Townsends Inlet at the corner of Avalon Avenue and 8th Street West in the Borough of Avalon, Cape May County, New Jersey; coordinates 39.108247, -74.706975.
- **3. LOCATION MAP(S)/DRAWING(S):** Please see attached Project Plan Sheets 1 through 15.
- **4. REQUESTER'S PROPOSED ACTION:** The proposed action entails the permanent removal of one (1) existing 18.0-inch diameter stormwater outfall pipe, installation of one (1) new 42.0-inch diameter outfall pipe in its place, and abandonment-in-place of one (1)

existing 12.0-inch diameter outfall pipe with flowable fill. The proposed work will require disassembly and reassembly of a portion of the Townsends Inlet seawall.

- **5. REGULATORY AUTHORITY:** This request will be reviewed according to the provisions of Section 14 of the Rivers and Harbors Act of 1899 (33 U.S.C. 408). A requestor has the responsibility to acquire all other permissions or authorizations required by federal, state, and local laws or regulations, including any required permits from the USACE Regulatory Program under Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403), Section 404 of the Clean Water Act (33 USC Section 1344) and/or Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 USC 1413). Any Section 10/404/103 permit decision associated with the proposed alteration is separate from and will not be included in the Section 408 permission decision. An approval under Section 408 does not grant any property rights or exclusive privileges nor does it authorize any injury to the property or rights of others.
- **6. ENVIRONMENTAL COMPLIANCE:** A decision on a Section 408 request is a federal action, and therefore subject to the National Environmental Policy Act (NEPA) and other environmental compliance requirements. While ensuring compliance is the responsibility of USACE, the requester is providing all information that the Philadelphia District identifies as necessary to satisfy all applicable federal laws, executive orders, regulations, policies, and ordinances. Based on information provided by the applicant to date, current Corps regulations governing NEPA implementation, and/or the contents of existing NEPA documentation if available, it is likely that the proposed action will be determined to be categorically excluded from the need to prepare an Environmental Assessment (EA) or Environmental Impact Statement (EIS). This determination will be finalized following completion of agency coordination and prior to issuance of the Section 408 Permission Decision.
- **7. EVALUATION:** As part of its evaluation, USACE will first make a determination that the submittal from the requestor is complete. The Philadelphia District is working closely with the requestor to ensure that all required technical plans, maps, drawings, and specifications are provided and are complete. Once the package is complete, a District-led review will be conducted to determine, in accordance with Engineering Circular (EC) 1165-2-216, whether the proposed alteration will impair the usefulness of the USACE Project or be injurious to the public interest, as follows:
 - A. *Impair the Usefulness of the Project Determination*. The Philadelphia District's Section 408 review team will determine if the proposed alteration will limit the ability of the federally authorized project to function as authorized, or will compromise or change any authorized project conditions, purposes or outputs.
 - B. Injurious to the Public Interest Determination. Proposed alterations will be reviewed to determine the probable impacts, including cumulative impacts, on the public interest. Evaluation of the probable impacts that the proposed alteration to the USACE project may have on the public interest requires a careful weighing of all those factors that are relevant in each particular case. Factors that may be relevant to the public interest depend upon the type of USACE project being altered and may include, but are not limited to, such things as conservation, economic

development, historic properties, cultural resources, environmental impacts, water supply, water quality, flood hazards, floodplains, residual risk, induced damages, navigation, shore erosion or accretion, and recreation. The decision whether to approve an alteration will be determined by the consideration of whether benefits are commensurate with risks. If the potential detriments are found to outweigh the potential benefits, then it may be determined that the proposed alteration is injurious to the public interest.

- 8. **SOLICITATION OF COMMENTS:** The USACE is soliciting comments from the public; federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of the proposed activity. Any comments received will be considered by USACE to determine whether to issue, modify, condition, or deny a permission for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are considered in making a final determination whether the proposed action will be categorically excluded from the need to prepare further NEPA documentation. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.
 - A. It should be noted that materials submitted as part of the Section 408 request become part of the public record and are thus available to the general public under the procedures of the Freedom of Information Act (FOIA). Individuals may submit a written request to the Philadelphia District Corps of Engineers, Office of Counsel to obtain copies of said materials under the FOIA.
 - B. It is presumed that all parties viewing this notice will wish to respond to this public notice; therefore, a lack of response will be interpreted as meaning that there is no objection to the project as described.
- 9. COMMENT SUBMISSION AND ADDITIONAL INFORMATION: Written comments on the described work should reference the USACE Public Notice Identification Number found on the first page of this notice. Comments must reach this office no later than the stated expiration date of the Public Notice to become part of the record and be considered in the decision. Comments or requests for additional information should be mailed or emailed to the following address:

Email: JuanCarlos.Corona@usace.army.mil
Mailing Address:
U.S. Army Corps of Engineers
Philadelphia District
Attn: Juan Carlos Corona
100 South Independence Mall West, 2nd Floor
Philadelphia, PA 19106-3400

BOROUGH OF AVALON CAPE MAY COUNTY, NEW JERSEY

AVALON AVENUE DRAINAGE IMPROVEMENTS

CONTRACT NO. M-XXX



DECEMBER 2022

MAYOR

MARTIN L. PAGLIUGHI

BOROUGH COUNCIL

BARBARA JUZAITIS, PRESIDENT

SAM WIERMAN, VICE PRESIDENT

JOHN McCORRISTIN

MARI COSKEY

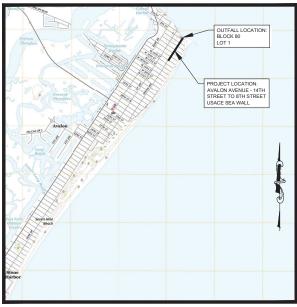
JAMIE McDERMOTT

BOROUGH ADMINISTRATOR

SCOTT J. WAHL

BOROUGH CLERK

DANIELLE NOLLETT, RMC/CMR



LOCATION MAP



Certificate No. 24GA28016600

3 Paragon Way Freehold, NJ 07728 T +1 (609) 465 9377 F +1 (609) 465 5270

PUBLIC UTILITIES

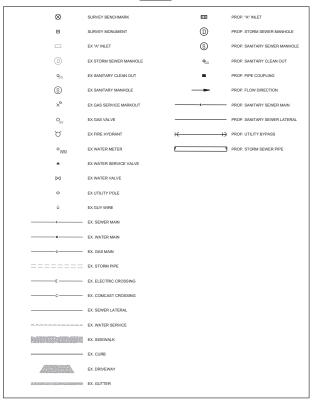
SANITARY SEWER & WATER	UTILITY SERVICE AFFILIATES 1401 DUNE DRIVE AVALON, NJ 08202 732.754.0285 BUSINESS HOURS 606.602.5443 - AFTER HOURS
	CAPE MAY COUNTY M.U.A. P.O. BOX 610 CAPE MAY COURT HOUSE, NJ 08210 603-465-9026 ATTN: THOMAS J. LAROCCO, P.E.
GAS	SOUTH JERSEY GAS COMPANY 1708 ROUTE 9 NORTH CAPE MAY COURT HOUSE, NJ 08210 603-465.2900 ATTN: WILLIAM WENGERT
ELECTRIC	ATLANTIC CITY ELECTRIC COMPANY 420 ROUTE 9 NORTH CAPE MAY COURT HOUSE, NJ 08210 603-483-3817 ATTN: THOMAS C. RINCK
TELEPHONE	VERIZON ENGINEERING DEPARTMENT 10 TANSBORG ROAD FLOOR 2 BERLIN, NJ 08009 605-407-5115 ATTN: ELLIOT BATTERMAN
CABLE TV	COMCAST CABLE SERVICES 609.677.7332 ATTN: BOB MAYEUX
CAPE MAY COUNTY ROADS	CAPE MAY COUNTY DEPARTMENT OF PUBLIC WORKS 4 MOORE ROAD CAPE MAY COURT HOUSE, NJ 08210 609 485 1035 ATTN: ROBERT CHURCH, P.E.

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LEGEND



- ALL ELEVATIONS SHOWN ON THE DRAWINGS ARE BASED UPON NAVD 1988 UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT IN AN APPROVED MANNER ALL EXISTING THRUST BLOCKS WHICH ARE RESTRAINING EXISTING UTILITIES. EXISTING THRUST BLOCKS SHALL NOT BE UNDERMINED.
- THE CONTRACTOR SHALL ADEQUATELY PROTECT ALL EXISTING STRUCTURES THE CONTRACTOR SHALL ABEQUATE V PROTECT ALL EXISTING STRUCTURES AND UTLITIES. AND PROMAGE TO DESIGNED STRUCTURES OF UTLITIES SHALL BE BOUNDED FOR THE STRUCTURE OF UTLITIES SHALL BE BORNE BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY ALL UTLITY COMPANIES IN ACCORDANCE WITH THE YMPERGEONION FACILITY PROTECTION ACT (PL. 1984 CH. 118) AND PROVIDE THE EMIGNEER WITH THE NOTIFICATION CONFIRMATION NUMBER PRIOR TO ANY EXCAVATION.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL UTILITY MARKO AND FORWARDING CONFIRMATION NUMBERS TO THE OWNER AND ENGI
- AVAILABLE INFORMATION AS TO THE LOCATION OF EXISTING SUBSTRUCTURES AND UTILITIES HAS BEEN COLLECTED FROM VARIOUS SOURCES. THE RESULTS AND DITETIES MAS BEEN COLLECTED FROM VARIOUS SUDRICES. THE K OF SUCH INVESTIGATIONS AS MAY BE SHOWN ON THE CONTRACT DRAY ARE NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS. ALL EXI ITILITIES ADE SUCHAIN CON CENTRAL INFORMATION ONLY. THE CONTRACT
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES A MINIMUM OF 72 HOURS PRIOR TO EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO GETAIN ANY AND ALL NECESSARY PERMITS FROM THE AFFECTED UTILITY COMPANIES AND FOR SCHEDULING OF INSPECTIONS BY UTILITY COMPANY PERSONNEL, IF REQUIRED, DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ROAD OPENING PERMITS FROM THE MUNICIPALITY AND/OR COUNTY AND COMPLY WITH THE REQUIREMENTS OF THE MUNICIPALITY AND/OR COUNTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL BOROUGH CONSTRUCTION AND
- THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE AND FEDERAL LAWS, ORDINANCES, ETC. IN THE EXECUTION OF THIS WORK.
- THE CONTRACTOR SHALL ABDE BY ALL REQUIREMENTS OF THE "HIGH VOLTAGE PROMMITY ACT." EXCANATIONS OR TRENCHING WITHIN CLOSE PROMMITY TO APPROVED MINNER TO PREVENT HOMBORY OF THE PROMMENT OF THE PROMEST OF PREVENT HOMBORY OF THE COST TO PROVIDE THIS PROTECTION WILL BE BORNE BY THE CONTRACTOR.
- PRIOR TO THE START OF ANY CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A WORK SCHEDULE, AND CERTIFICATES OF INSURANCE (FOR GENERAL AND SUBCONTRACTORS) TO THE OWNER AND ENGINEER FOR APPROVAL.
- ALL EXCESS RECYCLABLE DEMOLITION MATERIAL SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED RECYCLING FACILITY AT NO ADDITIONAL COST
- ALL RUN-OFF SHALL BE SCREENED BY APPROPRIATE SILT FENCING, HAY BALES ETC., IN ACCORDANCE WITH SOIL EROSION PLANS TO PREVENT DISRUPTION OF MUNICIPAL FACILITIES AND STREETS.
- THE CONTRACTOR IS ADVISED THAT ALL MUNICIPAL PUBLIC NUISANCE LAWS AND NOISE ORDINANCES SHALL BE OBSERVED DURING THE COURSE OF CONSTRUCTION.
- THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN APPROPRIATE SIGNAGE FOR TRAFFIC CONTROL AND PEDESTRIAN SAFETY DURING
- CONTRACTOR ACKNOWLEDGES THAT HE HAS UNDERTAKEN WHATEVER PRE-BID INVESTIGATIONS HE DEEMS NECESSARY TO ASCERTAIN THE COMPOSITION, SIZE, SHAPE, LOCATION, AND DEPTH OF MATERIALS THAT WILL BE DEMOUSHED AND REMOVED THAT PRESENTLY EXIST ABOVE OR BELOW GRADE, WITHIN THE LIMIT OF CONSTRUCTION.
- WITHIN THE LIMIT OF CONSTRUCTION THE CONTRACTOR SHALL REMOVE, REPLACE, RESET EXISTING VALVE BOX COVERS AND CASTINGS AS REQUIRED AND DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES DURING THE CONSTRUCTION PERIOD.
- 18. TIME IS OF THE ESSENCE FOR FINAL COMPLETION OF ALL WORK WITHIN THE TIME LIMIT ESTABLISHED AND FOR INTERMEDIATE COMPLETION OF THE WORK COVERED BY THE INTERMEDIATE TIMES ESTABLISHED IN SECTION 0.21 TIME LIMIT OF THE INFORMATION FOR BIDDERS SECTION OF THE CONTRACT
- THE CONTRACTOR SHALL MAINTAIN THE ELOWIDE ALL STREAMS DRAINAG DITCHES, STORM SEWERS AND SANITARY SEWERS AT ALL TIMES BY A MEANS ACCEPTABLE TO THE ENGINEER AND ALL RESPONSIBLE AGENCIES.
- 20. ALL AREAS ADJACENT TO NEWLY INSTALLED CONCRETE CURBING, SIDEWALK ALL AREAS SUBJACES IN TO MEMELT STALLED COUNCER THE CURRINGS, SIDEWALK, FCC. SHALL BE BACKFILLED TO FINISHED GRADE PRIOR TO THE END OF THE DAY TO ELIMINATE ANY POTENTIAL HAZARDS. ALL AREAS OF DISTURBANCE SHALL BE GRADED SO AS TO ELIMINATE ANY MOUNDS AND/OR DEPRESSIONS PRIOR TO THE END OF EACH DAY TO ELIMINATE ANY POTENTIAL HAZARDS.
- ALL SHOP DRAWINGS, MATERIALS AND EQUIPMENT TO BE INSTALLED AND ALL OTHER REQUIRED SUBMITTALS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- 22. CONTRACTOR SHALL REPLACE ALL LANDSCAPE STONE IN AREAS REQUIRED TO BE DISTURBED OR DESTROYED DURING CONSTRUCTION OF CONCRETE VERTICAL CURB, CONCRETE GUTTER, CONCRETE SIDEWALK, AND CONCRETE DRIVEWAY APRONS WITH LANDSCAPE STONE OF SAME SIZE, SHAPE, DEPTH TEXTURE AND COLOR. CONTRACTOR SHALL NOT BE COMPENSATED FOR REPLACEMENT OF LANDSCAPE STONE DISTURBED OR DESTROYED OUTSIDE OF THOSE AREAS WHERE DISTURBANCE OF EXISTING STONE IS NECESSARY.
- 23. THE CONTRACTOR OR HIS REPRESENTATIVE IS TO DESIGNATE AN INDIVIDUAL
- PRESSURES UNLESS WRITTEN APPROVAL BY THE RESPONSIBLE UTILITY PERMITS HIM TO DO OTHERWISE.
- 25. ALL WORK WHICH MAY HAVE AN INFLUENCE, OR EFFECT THE OPERATIONS OF THE UTILITY FACILITIES SHALL BE SCHEDULED IN CONJUNCTION WITH THE UTILITY SUPERINTENDENT AND THE CONTRACTOR SHALL COOPERATE AT ALL TIMES TO MAINTAIN SATISFACTORY OPERATION OF THE UTILITIES.

GENERAL NOTES

- PRIOR TO ANY CONNECTION TO EXISTING FACILITIES, THE CONTRACTOR SHALL NOTIFY THE OWNER. ALL CONNECTIONS TO EXISTING FACILITIES WILL BE DONE AT THE CONVENIENCE OF THE OWNER.
- 27. EXCAVATIONS OR TRENCHING WITHIN CLOSE PROXIMITY TO UNDERGROUND FACILITIES OR UTILITY POLES WILL REQUIRE PROTECTION IN AN APPROVED MANNER TO PREVENT DAMAGE OR INTERRUPTION OF SERVICE TO UNDERGROUND FACILITIES. THE COST TO PROVIDE THIS PROTECTION WILL BE BORNE BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BROOM SWEEP STREETS, USE APPROVED METHOD TO CONTROL DUST AND HOSE DOWN THE PAVEMENT TO KEEP SURFACE CLEAN.
- 29. DETOURING OF TRAFFIC, IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN, SHALL BE COORDINATED WITH LOCAL OFFICIALS (FIRE, POLICE, FIRST AID, BOARD OF EDUCATION BUS COORDINATOR, ETC), REFER TO SPECIFICATIONS AND TRAFFIC CONTROL PLAN FOR SPECIFIC REQUIREMENTS.
- ALL TRENCHES SHALL BE BACKFELED WITHOUT DELAY. OPEN TRENCHES SHALL BE KEPT TO A MINIMUM. OPEN TRENCHES SHALL BE STEEL PLATED WHEN WORK IS NOT IN PROGRESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL UTILITY TRENCHES FOR SAFETY AND RIDEABILITY THROUGHOUT THE COURSE OF THE PROJECT.
- UNLESS OTHERWISE PERMITTED, NO WORK SHALL BE DONE BETWEEN THE HOURS OF 600 PM AND 7:00 AM PREVAILING TIME. NO EQUIPMENT SHALL BE HOURS OF 600 PM AND 7:00 AM PREVAILING TIME. NO EQUIPMENT SHALL BE RESOLUTELY NECESSARY TO PERFORM WORK AT NIGHT, THE EMISSIEST SHALL BE INFORMED IN ADVANCE. GOOD LIGHTING AND ALL OTHER NECESSARY FACILITIES FOR PROPER CARRYING OUT AND INSPECTION THE WORK SHALL BE
- PAVING LIMITS SHALL BE SAW-CUT VERTICAL FACES OF SAW-CUT SHALL BE MANTANED IN GOOD COMMITTON DURING THE PERIOD OF TIME PRIOR TO JOINT WHEN SUPFACE COURSE IS APPLED. ALL NEW TO ENSTINE PAVEMENT CONNECTIONS SHALL INCLUDE THE LIBERAL APPLICATION OF AN APPROVED BINDING AGENT AT THE CONT ARE
- 33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING THE AREAS OF DISTURBANCE TO THEIR ORIGINAL CONDITIONS. MATERIALS AND EQUIPMENT NEEDED TO BE PAID FOR ITEM FOR SITE RESTORATION.
- ACCESS TO THE SITE IS AS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL MAINTAIN THIS ACCESS IN A NEAT MANNER AT ALL TIMES. THE CONTRACTOR SHALL SUBMIT A PLAN OF THE STORAGE AREA LAYOUT TO THE BOROUGH ENGINEER FOR APPROVAL.
- THE CONTRACTOR SHALL PROVIDE FOR DEWATERING OR WORK WITH THE PREVAILING TIDE FOR THE CONSTRUCTION SITE AS REQUIRED TO PROPERLY CONSTRUCT ALL IMPROVEMENTS IN THE DRY WITH THE EXCEPTION OF SEAWALL RECONSTRUCTION WORK BELOW THE MILLIUL.
- ALL CONSTRUCTION SHALL BE WITHIN PROJECT LIMITS. CONSTRUCTION ACTIVITY, STORAGE, STOCKPILING AND ACCESS SHALL NOT TAKE PLACE ON PRIVATE PROPERTY UNLESS SUCH ARRANGEMENTS HAVE BEEN MADE BY CONTRACTOR AND WRITTEN PROOF OF AGREEMENTS ARE PROVIDED TO THE OWNER.
- THE CONTRACTOR SHALL CONDUCT WORK OPERATIONS AS TO MINII DISTURBANCE OF AREAS OUTSIDE OF THE DESIGNATED CONSTRUCT
- BIDDERS ARE EXPECTED TO READ AND BECOME FAMILIAR WITH THE CONTRACT
- CONTRACTOR ACKNOWLEDGES THAT HE HAS UNDERTAKEN WHATEVER PRE-BID INVESTIGATIONS HE DEEMS NECESSARY TO ASCERTAIN THE COMPOSITION, SUES, SHAPE, LOCATION, AND DEPTH OF MATERIALS THAT WILL BE UTILIZED IN THE PROJECT THAT PRESENTLY EXIST ABOVE OR BELOW THE WATER LINE, WITHIN THE LINT OF CONSTRUCTION.
- CONTRACTOR IS ADVISED THAT VARIOUS FEATURES AND COMPONENTS OF THE EXISTING STRUCTURES AND WORK TO BE COMPLETED ARE INFLUENCED BY TUBLA CONDITIONS AND HE MUST COORDINATE HIS ACTIVITIES IN A COORDINATED MANNER TO PROPERLY EFFECT HIS WORK AND REQUIRED OWNERS INSPECTIONS.
- THE CONTRACTOR SHALL PROCURE ALL REQUIRED PERMITS, LICENSES AND INSPECTIONS AND SHALL BE RESPONSIBLE FOR ALL CHARGES AND FEES OTHER THAN JUDGEP AND USAGE PERMITS, AS WELL AS GIVEN POTTORES NECESSARY FOR ALL INCIDENTALS FOR THE PROJECT UNLESS OTHERWISE EXCLUDED IN THE CONTRACT SPECIFICATIONS.
- THE CONTRACTOR SHALL CONDUCT DEMOLITION AND CONSTRUCTION WORK IN A MANNER TO PRECLUDE THE RELEASE OF MATERIALS, FUELS AND DEBRIS INTO THE WORTER ADJACENT TO THE WORTE.
- EXISTING USACE SEAWALL CONTOURS ARE BASED ON A SURVEY PERFORMED IN NOVEMBER 2016. CONTRACTOR SHALL BE ADVISED THAT THE GRADES AND ARE SUBJECT TO CHANGE USE TO THE OTHER CHANGE. AND ARE SUBJECT TO CHANGE USE TO THE GYNAMIC MUSTLE OF THE COSATAL. ZONE. CONTRACTOR SHALL INSPECT THE SITE PRIOR TO BIT OT DOSSESS EXACT CONDITIONS AT THE OF BIT ALL SUE LEVATIONS ARE REFERENCED AT NAVID 1986.
- THE PROJECT SITE AND STAGING AREA MUST BE RETURNED TO ITS PRE-EXISTING CONDITIONS AFTER COMPLETION OF CONSTRUCTION PRE-EXISTING CONDITIONS AFTER COMPLETION OF CONSTRUCTION UNLESS OTHERWISE NOTED BY THE PROJECT OWNER. THE CONTRACTOR SHALL ANTICPATE THE COSTS TO REMOVE ANY WASTE OR DEBRIS CREATED AS A RESTORATION AND CLEANUP STRAME. HAMELY MAY BE AN OWNER OF THE AND AND CLEANUP STRAME. HAMERS HAVE THE PROPERTY DISPOSED OF AT AN APPROVED LOCATION OR LANDFILL THE CONTRACTOR SHALL CONTACT THE PROJECT OWNER TO SCHEDULE FINAL INSPECTION. BEFORE DEMORII IZATION
- CONTRACTOR MAY CONSIDER CONSTRUCTION FROM EITHER LAND, SEA OR BOTH. ANTICIPATED CONSTRUCTION MEANS AND METHODS SHOULD BE REFLECTED IN HIS UNIT AND LUMP SUM BID PRICES. LOCATIONS OF VESSELS OR BARGES UTILIZED FOR CONSTRUCTION SHALL BE COORDINATED AND
- 46. CONTRACTOR IS RESPONSIBLE FOR STABILITY OF THE STRUCTURE DURING CONSTRUCTION.
- 47. REUSED OR REHANDLED STONE SHOULD BE STOCKPILED ACCORDING TO SIZE.

- 48. RIGHT OF WAY LINES AND PROPERTY LINES ARE APPROXIMATE AND HAVE BEEN SHOWN UTILIZING FOUND MONUMENTS AND TAX MAP INFORMATION ONLY.
- NUDOT STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2019 EDITION TO GOVERN. NJDOT STANDARD CONSTRUCTION DETAILS TO GOVERN OVER ALL MATERIALS, EQUIPMENT AND PROCEDURES.
- 50. GAS MAIN INFORMATION AS SHOWN ON THE PLANS IS BASED ON UTILITY MARKOUTS WHICH WERE PRESENT DURING FIELD SURVEYS CONDUCTED BY MOTT MACDONALD IN OCTOBER 2021 AS WELL AS MARKUPS PROVIDED BY SOUTH JERSEY GAS IN DECEMBER 2021.
- WATER MAIN INFORMATION AS SHOWN ON THE PLANS IS BASED ON LITELTY MARKOUTS WHICH WERE PRESENT DURING FIELD SURVEYS CONDUCTED BY MACCONALD IN OCTOBER 2021 AS WELL AS BOROUGH OF AVALON GIS INFORMATION.

- THIS PLAN IS BASED UPON A FIELD SURVEY CONDUCTED ON OCTOBER 16, 2021 BY MOTT MACDONALD. SUPPLEMENTAL SURVEY INFORMATION WAS ADDED ON AUGUST 19 AND AUGUST 23, 2021 BY MOTT MACDONALD.

SANITARY SEWER NOTES

- CLEANOUTS FOR VARIOUS HOUSES COULD NOT BE LOCATED. CLEANOUTS SHOWN AT THE LOCATIONS DENOTED ON THE PLA ARE FOR DISPLAY PURPOSES ONLY. LOCATIONS OF SEWER LATERALS AND CLEANOUTS SHOULD BE VERIFIED BY THE INTERNAL AND CLEARAGUTS SHOULD BE VERTHEID BY THE CONTRACTOR IN THE FIELD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF THE LATERALS ON ALL LOTS, WITH THE ASSISTANCE OF THE ENGINEER AND WATER AND SEWER DEPARTMENT, AND CONNECTING ACCORDINGLY.
- AT THE END OF EACH DAY THE SEWER MAIN AND ALL SEWER LATERALS SHALL BE TIED INTO THE SYSTEM AND NO LATERALS SHALL BE LEFT DISCONNECTED OVERNIGHT.
- ALL SEWER MANHOLES SHALL HAVE WATERTIGHT CASTINGS
- UPON COMPLETION OF THE PROJECT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE ENGINEER WITH ONE (1) COPY OF AN AS-BUILT DRAWNS OF THE ENTIRE SEWER SYSTEM, INCLUDING LOCATION OF MANHOLES, SEWER MAIN, SEWER LATERALS, DEPTHS OF LATERALS, INVERT ELEVATIONS AND MANHOLE RIM ELEVATIONS.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL SEWER MAIN, LATERALS, MANHOLES AND CLEANOUTS UNLESS OTHERWISE STATED ON THE PLAN. PAYMENT WILL BE MADE UNDER THE VARIOUS BID ITEMS.
- DRICK TO ORDERING ANY CONSTRUCTION MATERIALS. THE PRIOR TO URDENING ANY CORN RUC HION MATERIALS, THE CONTRACTOR SHALL VERIFY THE SIZE, MATERIAL, INVERTS AND LOCATION OF ALL UNDERGROUND UTILITIES. IF ANY CONFLICTS SHOULD ARISE FROM THE INVESTIGATION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR FURTHER INSTRUCTION.
- FOR CONNECTIONS OF SANTARY SEWER MAIN TO EXISTING MANIFICES, KORN-KSEL, CONNECTIONS INSERTING ASTRO-CASIO MANIFICES, KORN-KSEL, CONNECTIONS INSERTING ASTRO-CASIO MANIFICES, KORN-KSEL, CONNECTIONS INSERTING ASTRO-CANNOT WARRANT A CORE AND SELL CONNECTION. THE MANIFICE CONNECTION SEALL BE MADE WITHOUT SERVICES. THE BIOLITEM FOR ASMITIATY SERVER MANIFICES.

- THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF EAST TWO ASSECTION CASESTOS CEMENT PIPE (ACP) AS DISPOSE OF EAST TWO ASSECTION CASES OF EAST TWO ASSECTION CASSECTION CASES OF EAST TWO ASSECTION CASES OF EAST TWO ASSECTION
- AT CROSSINGS OF SEWER LINES AND WATER MAINS, THE TOP OF THE SEWER SHALL BE AT LEAST 18 INCHES BELOW THE TOP OF THE SEWER SHALL BE AT LEAST 18 INCHES BELOW THE TOP OF THE SEWER SHALL SHAL
- PRIOR TO FABRICATION OF PROPOSED MANHOLES, THE CONTRACTOR SHALL FIELD VERIEY INVERT ELEVATIONS TO ENSURE EXISTING PIPES ARE ENTERING THE MANHOLE AT THE CORRECT INVERT ELEVATIONS.
- PRIOR TO INSTALLATION OF SEWER MAIN THE CONTRACTOR PRIOR TO INSTALLATION OF SEWER MAIN, THE CONTRACTOR SHALL VERIFY EXISTING INVERT ELEVATIONS AT THE LOCATIONS WHERE PROPOSED SEWER MAIN IS CONNECTING INTO EXISTING MANHOLE INVERTS, TO ENSURE THE MAIN IS BEING CONSTRUCTED AT THE CORRECT SLOPE.
- THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN FOR APPROVAL BY THE ENGINEER. THE CONTRACTOR SHALL TAKE INTO ACCOUNT VARIOUS IMPACTS TO RESIDENTS SUCH AS NOISE LEVELS, WELL POINTS PROHIBITING ACCESS TO DRIVEWAYS, ETC. AND KEEP THIS DISTURBANCE TO A MINIMUM.

WATER NOTES

- LOCATIONS OF WATER MAIN AND SERVICES AS SHOWN ON THE PLAN ARE APPROXIMATE, ARE BASED ON THE LOCATIONS OF METERS, LIMITED UTILITY MARKOUTS, NFORMATION FROM UTILITY SERVICE AFFILIATES AND SHOULD BE VERIFIED BY THE CONTRACTOR IN THE FIELD
- AFTER COMPLETION OF TEST PITS AND PRIOR TO ORDERING ANY MATERIALS, THE CONTRACTOR SI COORDINATE HIS FINDINGS WITH THE ENGINEER. COORDINATE HIS FINDINGS WITH THE ENGINEER. IN LOCATIONS WHERE THE ENSTING WATER MAINS ARE IN CONFLICT WITH ANY PROPOSED UTILITIES. THE CONTRACTOR SHALL PERFORM UTILITY BYPASSES IF AND WHERE DIRECTED UNDER TEM NO. 18.
- THE CONTRACTOR SHALL ENGLIDE THAT THE WATER SYSTEM IS FUNCTIONING AT THE END OF EACH WOR DAY. NO SERVICES SHALL BE LEFT DISCONNECTED
- THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING THE ENGINEER AN AS-BUILT OF ALL UTILITY BYPASSES CONSTRUCTED UNDER THIS PROJECT INCLUDING THE LOCATIONS, SIZE, LENGTH, DEPTHS, AND FITTINGS USED FOR EACH BYPASS.
- WATER MAIN ACTIVATION, DEACTIVATION, TESTING, AND ALL OTHER ACTIVITIES RELATED TO THE WATER MAIN REPLACEMENT SHALL BE COORDINATED WITH THE ENGINEER AND UTILITY SERVICE AFFILIATES.
- CONTRACTOR SHALL NOTIFY ALL AFFECTED PROPERTY

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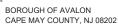
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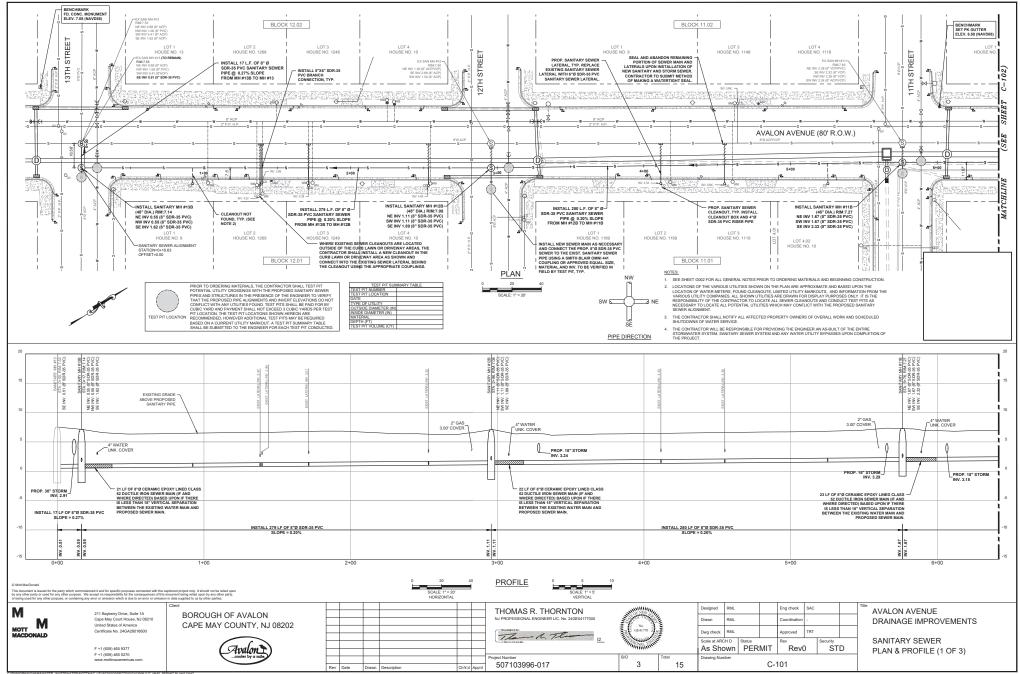
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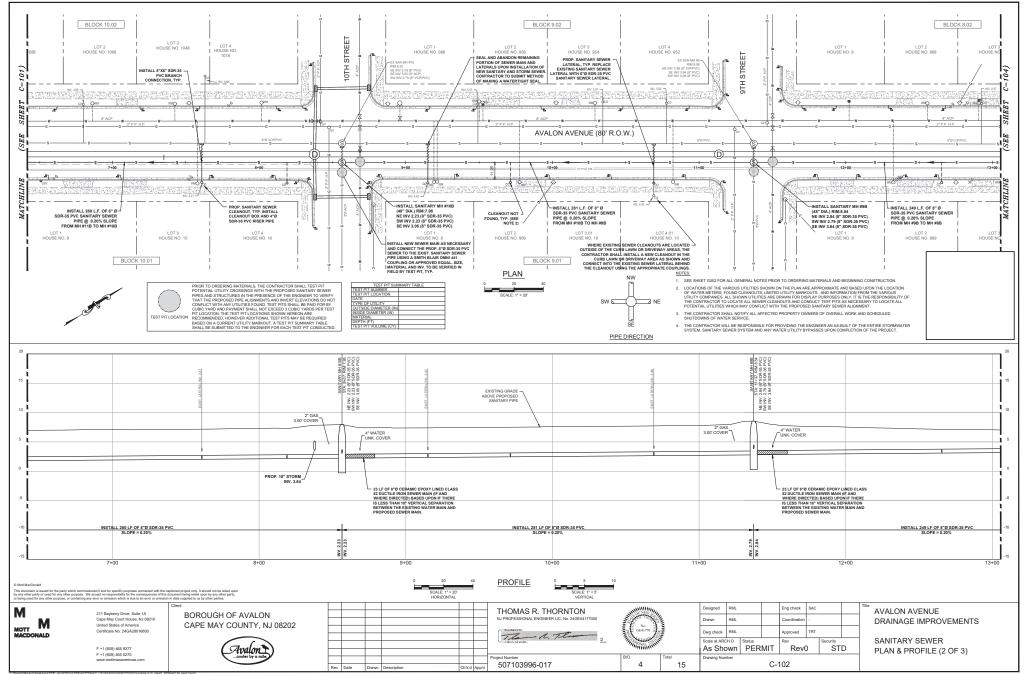
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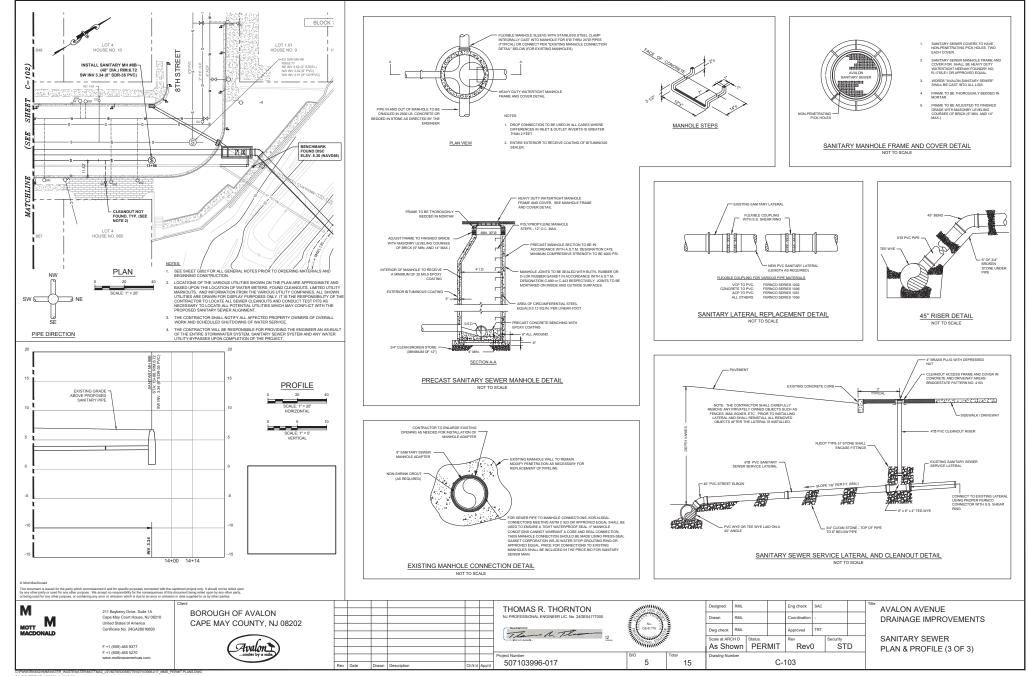
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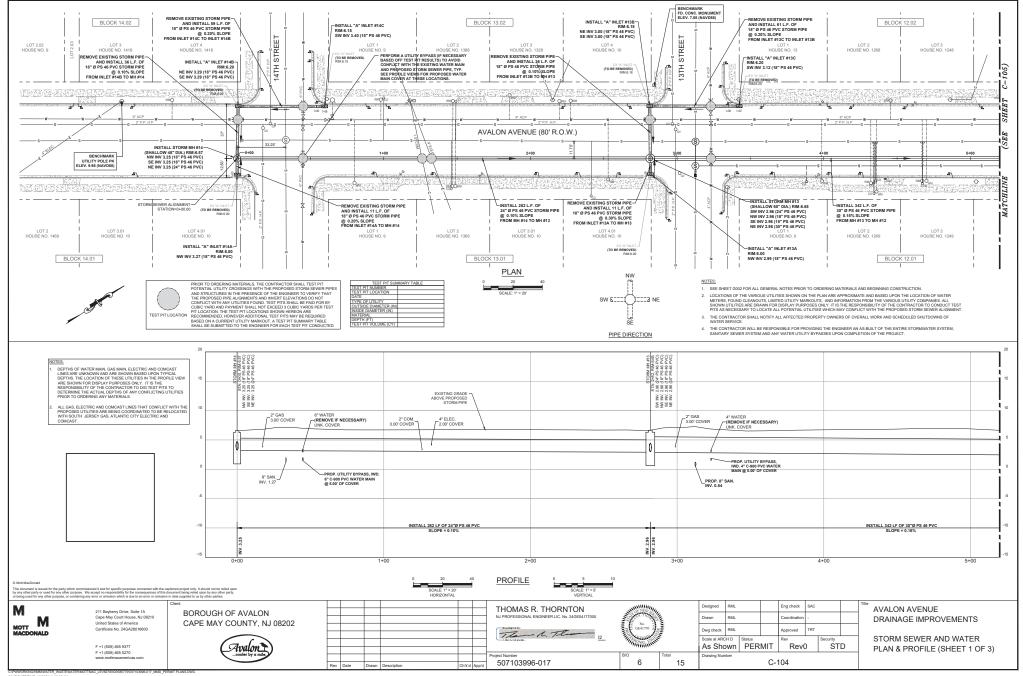
AVALON AVENUE DRAINAGE IMPROVEMENTS

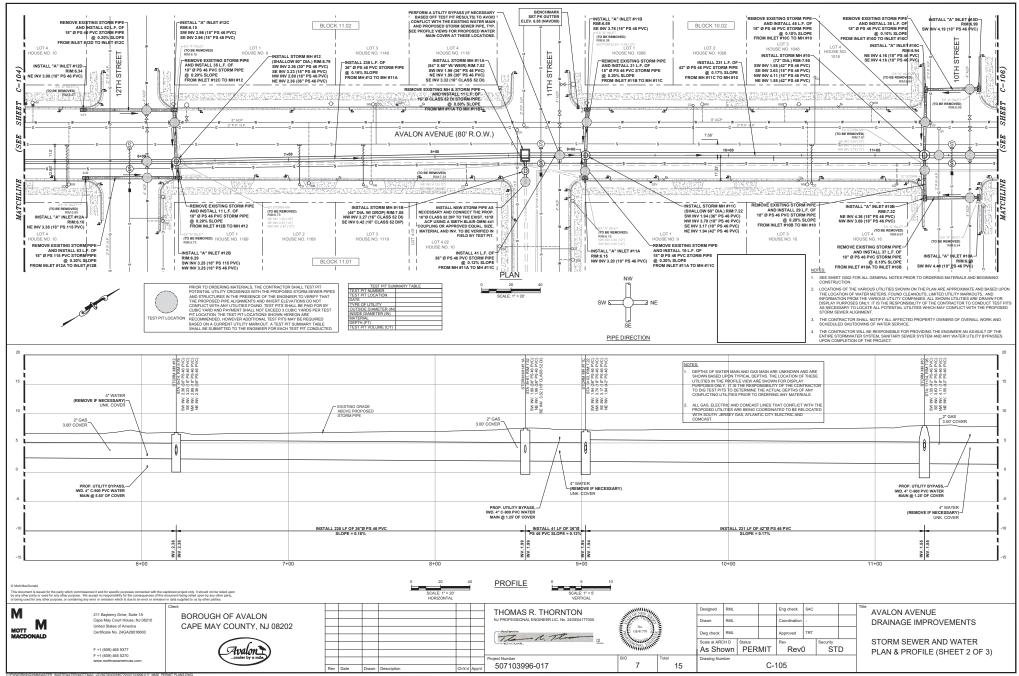
LEGEND, GENERAL NOTES AND **ESTIMATE OF QUANTITIES**

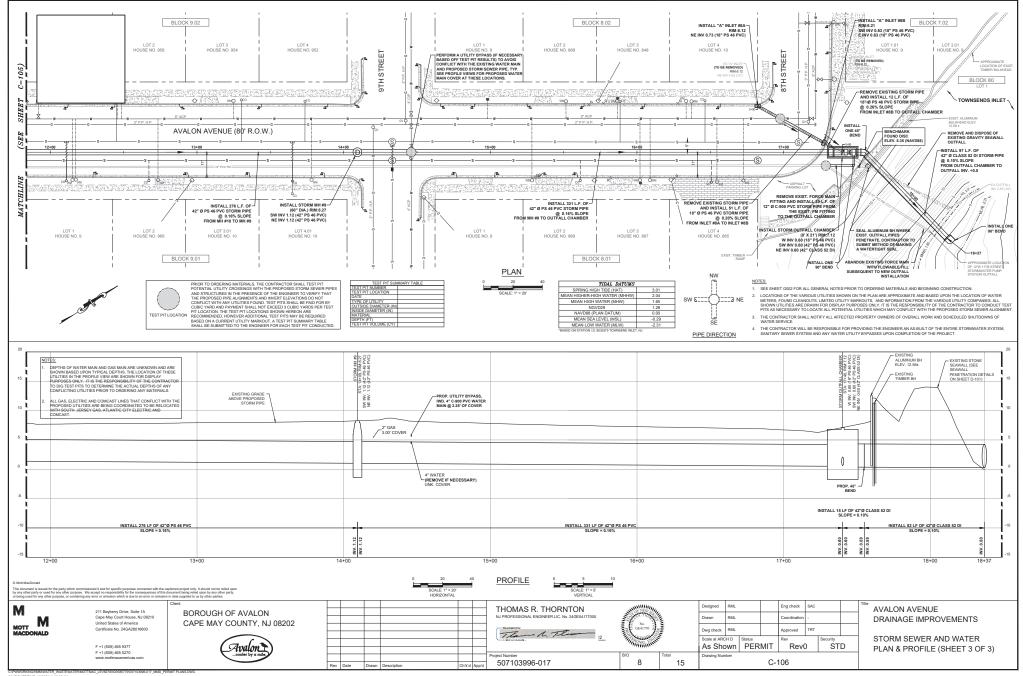


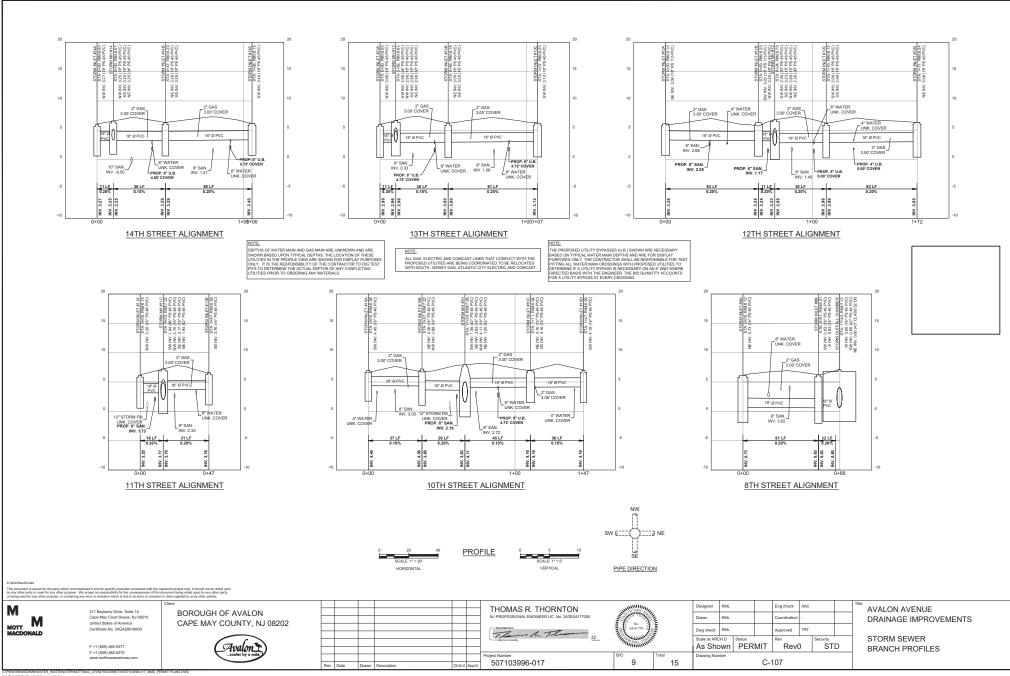












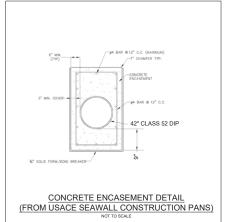


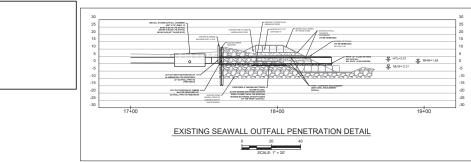
- MAINTAIN EXISTING 12' FORCE MAIN OUTFALL FROM 11TH STREET PUMP STATION.
- SEAWALL WITHIN THE LIMITS INDICATED ON THE PLANS, STOCKPILING STONES OF LIKE SIZE WITHIN STOCKPILE AREA.
- CONTINUE TO MONITOR WEATHER FORECAST TO BE PREPARED TO REPLACE STONE REMOVED FROM SEAWALL SHOULD FORECAST REQUIRE
- ALUMINUM AND TIMBER BULKHEAD PENETRATIONS AND SEALS.
- 11. RECONSTRUCT SEAWALL AROUND AND ABOVE OUTFALL PIPE PER PLAN.
- CONTINUE TO MAINTAIN 12" FORCE MAIN FLOWS AND BYPASS 8TH STREET GRAVITY FLOWS AS NECESSARY.

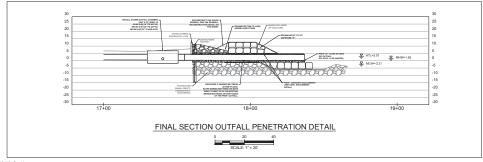
- 15. PRESSURE-GROUT 12" FORCE MAIN.

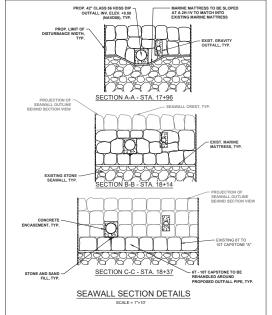
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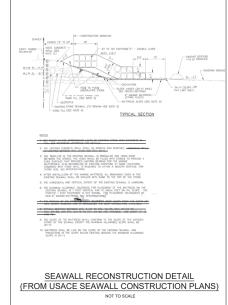














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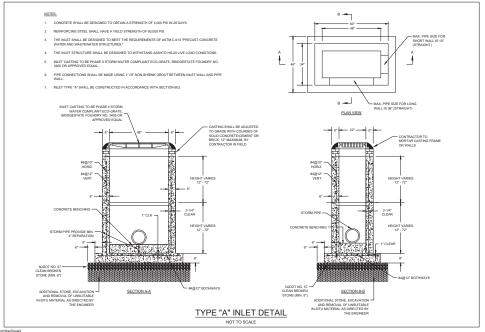
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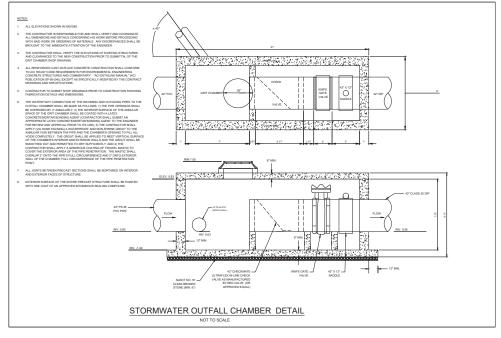
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AVALON AVENUE DRAINAGE IMPROVEMENTS





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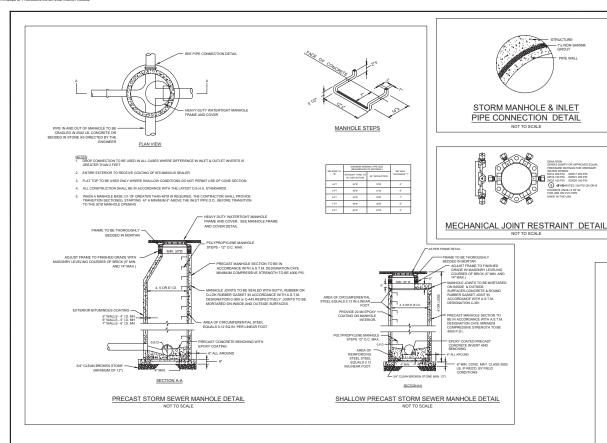
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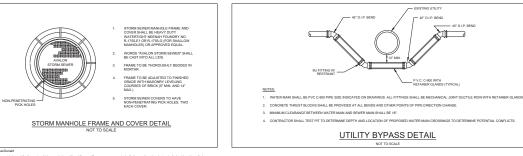
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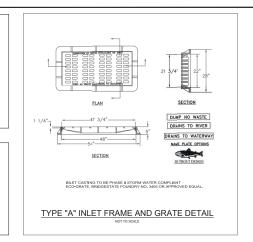
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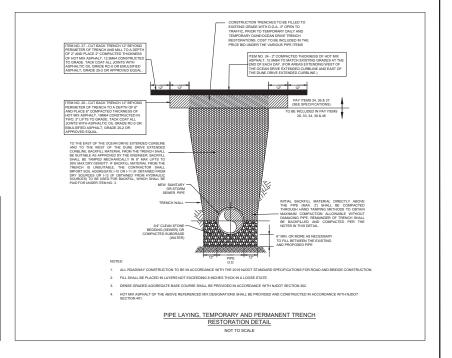
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AVALON AVENUE DRAINAGE IMPROVEMENTS











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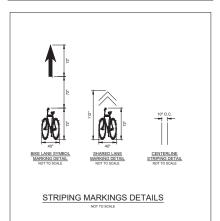


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AVALON AVENUE DRAINAGE IMPROVEMENTS

ALL STRIPING DETAILS AND NOTES SHOWN ON THIS PLAN ARE FOR RESTORATION PURPOSES ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE NOTE OF THE EXISTING LAYOUT OF THE STRIPING THAT WILL BE DISTURBED ALONG AVALON AVENUE AND UP ANY SIDE STREETS AND REPLACE BACK TO ITS ORIGINAL CONDITIONS. STRIPING NOTES AND DETAILS SHOWN ON THIS PLAN SHEET ARE TAKEN FROM THE BICYCLE ROUTE EXTENSION SIGNAGE AND STRIPING IMPROVEMENTS PROJECT.



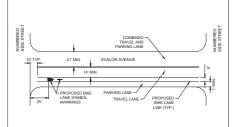
STRIPING NOTES:

- STEPPING NOTES:

 1. THE DIRECTION CONVENTION IS NORTHBOUND (NB) AND SOUTHBOUND (SB) FOR DUNE. BRIVE AND FIRST AND ANALON AVENUES AND EASTSOUND (EB) AND WESTBOUND (WB) FOR ALL NUMBERED SIDE STREETS.

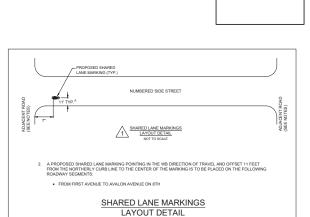
 2. IF LOCATION OF PROPOSED STREPING OR MARRINGS COMFLICTS WITH EXISTING STREPING OR MARRINGS. MICHOR BUT NOT MITTERFOR OF CORSISSANCES, PARRING SPOTS, STOP BARS, AND NO PARRING MARRINGSLINES, OR IF PROPOSED MARRINGS ARE LONGITUDALLY WITHIN THE (D) FEET OF A DEPOVER A PROPOSED MARRINGS ARE LONGITUDALLY WITHIN THE (D) FEET OF A DEPOVER A PROPOSED MARRINGS ARE LONGITUDALLY WITHIN THE (D) FEET OF A DEPOVER A PROPOSED MARRINGS ARE LONGITUDALLY WITHIN THE (D) FEET OF A DEPOVER A PROPOSED SPEET OF A STOP BARK AND THEY AND COORDINATE WITH THE EMIGNERY TO DETERMINE A SUITABLE LONGITUDA.
- 3. NO STRIPING OR MARKINGS ARE TO BE PLACED. WITHIN ANY INTERSECTION OR WITHIN TEN (10) FEET OF THE CURB LINE EXTENSIONS OF ANY INTERSECTION UNLESS OTHERWISE NOTED.

- CONTRACTOR IN SECURIOR SECURIO
- 9. THE LOCATION PLAN IS AN APPROXIMATION OF WHERE PROPOSED IMPROVEMENTS ARE TO BE PLACED. ACTUAL LOCATION OF PROPOSED IMPROVEMENTS TO BE DETERMINED BY FIELD CONDITIONS AND IN ACCORDANCE WITH THE DETAILS AND NOTES ON THIS SHEET.
- TRAFFIC MARKINGS AND STRIPING TO COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) AND THE STANDARD HIGHWAY SIGNS PUBLICATION, LATEST REVISIONS AND SUPPLEMENTS.
- EXISTING CURB LINES ARE DIAGRAMMATIC ONLY AND INTENDED TO CONVEY THE LOCATION, OFFSET, SPACING, ORIENTATION, ETC. OF PROPOSED STRIPING AND MARKINGS.

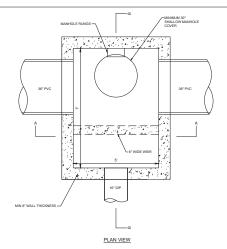


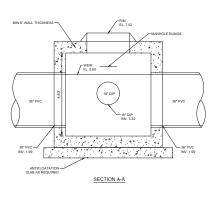
- 1. THIS DETAIL APPLIES TO THE FOLLOWING ROADWAY SEGMENTS:
 - AVALON AVENUE FROM 8TH STREET TO 32ND STREET
- 2. THE AUGUST PAGE 17 OF THE TOTAL THE PAGE 17 OF THE TOTAL THE TO
- ALONG AVAION AVENUE, THE PROPOSED BIKE LANE IS TO BE IN THE NB DIRECTION OF TRAVEL ONLY.

BIKE LANE STRIPING AND MARKINGS LAYOUT DETAIL



- CONCRETE IS TO OBTAIN A STRENGTH OF 4,500 PSI IN 28 DAYS.
- 2. REINFORCING STEEL TO HAVE A YIELD STRENGTH OF 60,000 PSI
- 3. W.W.F. HAS A YIELD STRENGTH OF 75,000 PSI.
- THE MANHOLE IS TO MEET THE REQUIREMENTS OF ASTM C-913 3. "PRECAST CONCRETE WATER AND WASTEWATER STRUCTURES"
- THE WALLS AND BASE SLAB TO BE DESIGNED FOR A MINIMUM EARTH COVER OF 20 FT. (EARTH COVER = FINISHED GRADE TO TOP OF BASE SLAB).
- MANHOLE FRAME AND COVER TO BE NEENAH FOUNDRY NO R-1755-G OR APPROVED EQUAL. SEE STORM MANHOLE FRAME AND COVER DETAIL ON PREVIOUS SHEET.
- PROVIDE POLYPROPYLENE LADDER RUNGS @ 12" CENTER TO CENTER.
- STRUCTURE SHALL HAVE CONCRETE BENCHING RAISED TO THE SPRING LINE OF THE LARGEST PIPE UNLESS SHOWN OTHERWISE.





SECTION B-B

WEIR MANHOLE DETAIL

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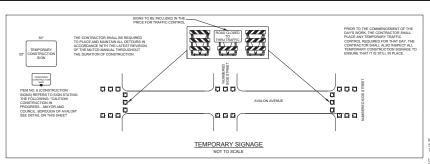
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AVALON AVENUE DRAINAGE IMPROVEMENTS

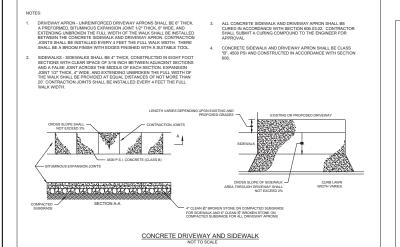


ONTRACTOR SHALL SUBMIT DETAIL OF THE SIGNS FO APPROVAL BY THE ENGINEER. SIGNS SHALL BE PAID FOR UNDER BID ITEM NO. 6, CONSTRUCTION SIGNS.

CONSTRUCTION SIGN

GENERAL TRAFFIC NOTES

- UNLESS OTHERWISE SPECIFIED LATEX TRAFFIC PAINT SHALL BE USED WHEN TRAFFIC STRIPES OR TRAFFIC MARKINGS ARE REQUIRED ON INTERMEDIATE PAVEMENT LAYERS THAT NEED TO BE OPEN TO TRAFFIC DUE TO STAGE CONSTRUCTION.
- EXISTING STREET AND ROAD SIGNS SHALL BE RESET IN ACCORDANCE WITH THE LATEST REVISED NJDOT STANDARD ROADWAY CONSTRUCTION - TRAFFIC CONTROL DETAILS IN THE LOCATIONS DEEMED APPROPRIATE BY THE ENGINEER. PAYMENT SHALL BE MADE UNDER ITEM NO. 40, SITE RESTORATION.
- PRIOR TO THE COMMENCEMENT OF THE DAY'S WORK, THE CONTRACTOR SHALL PLACE ANY TEMPORARY TRAFFIC CONTROL REQUIRED FOR THAT DAY. THE CONTRACTOR SHALL ALSO INSPECT ALL PERMANENT TRAFFIC CONTROL TO ENSURE THAT IT IS STILL IN PLACE.
- TRAFFIC CONTROL DEVICES WHICH ARE NOT MAINTAINED IN GOOD WORKING CONDITION SHALL TRAFFIC CONTROL DEVIS WHICH ARE NOT MAINTAINED IN OCHO WORKING CONDITION SHALL RESULT IN LUQUID DAMAGES OF THE CONTRACTOR OF THE CONTRACTOR IS NOTHED OF A RESULT OF THE CONTROL OF THE CAUSED BY DELAYS.





TEMPORARY SIGN NOTES

INSTALLATION, DIMENSIONS, COLORS AND DETAILS OF VARIOUS SIZE SIGNS AND ACCESSORY PANELS TO FOLLOW STANDARDS IN THE CURRENT "STANDARD HIGHWAY SIGN PUBLICATION" AND THE CURRENT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (M.U.T.C.D.)

LETTERS AND NUMERALS SHALL CONFORM TO THE CURRENT MANUAL "STANDARD ALPHABETS FOR HIGHWAY SIGNS" US DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

ALUMINUM SHALL BE FLAT SHEET OF 6061-T6 ALLOW, 0.100" GAUGE.

SIGN SUPPORTS SHALL BE WELL SEASONED LUMBER, S4S, FREE OF SPLITS, KNOTS AND WARPS OR, OF STEEL OR ALUMINUM COMPONENTS.

WOOD POSTS SHALL HAVE A UNIFORM CROSS SECTION AND SHALL NOT EXCEED THE FOLLOWING DIMENSIONS FOR

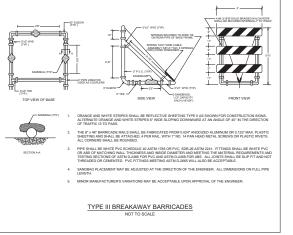
THREE POSTS: 3" x 5" OR 4" x 4"

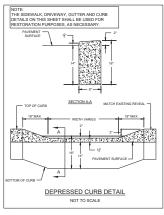
STEEL OR ALUMINUM POSTS SHALL BE IN ACCORDANCE WITH THE STANDARD DETAIL FOR SELECTIVE DIRECTIONAL SIGNS, CONSTRUCTION AND "M", "W" AND "R" BENDWAY SIGN SUPPORTS.

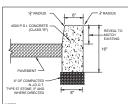
TEMPORARY SIGN SUPPORTS NOT MEETING CRITERIA SHALL BE SHIELDED BY A LONGITUDINAL BARRIER OR CRASH CUSHION.

SIGN NOTES: SIGN FACES SMALL BE RETROREFLECTIVE SHEETING COMPORAINS TO SUBSECTION 916.01 TIPE I SHEETING, ALL ADVANCE VARMOND SIGNEY OF PERTY AIRET AND EXTRA SHEETING. ALL DAWNORD OR ADVENTION SIGNEY OF PERTY AIRET A

ALL SIGNS SHALL BE SECURELY FASTENED TO THEIR SUPPORTS WITH BOLTS, NUTS AND WASHERS OF ALUMINUM (2024-T4 ALLOY) OR HOT-DIP GALVANIZED STEEL (ASTM 153).



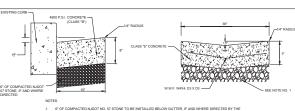




- BITUMINOUS-IMPREGNATED FIBER JOINT FILLER RECESSED 1/4" IN FROM FRONT FACE AND TOP OF CURB.
- EXPANSION JOINTS THRU AND ADJACENT TO THE CURB AS DIRECTED BY THE ENGINEER SHALL BE INCLUDED IN THE PRICE BI FOR SITE RESTORATION.

- ALL CONCRETE CURB SHALL BE CURED IN ACCORDANCE WITH SECTION 607.03.02. CONTRACTOR SHALL SUBMIT A CURING COMPOUND TO THE ENGINEER FOR APPROVAL.
- CONCRETE VERTICAL CURB SHALL BE CLASS "B", 4500 PSI AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 607.

CONCRETE VERTICAL CURB NOT TO SCALE



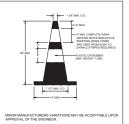
1. 6° OF COMPACTED NJDOT NO. 57 STONE TO BE INSTALLED BELOW GUTTER, IF AND WHERE DIRECTED BY THE

ALL CONCRETE GUTTER SHALL BE CURED IN ACCORDANCE WITH SECTION 606.03.02. CONTRACTOR SHALL SUBMI A CURING COMPOUND TO THE ENGINEER FOR APPROVAL.

4. CONCRETE GUTTER SHALL BE NJDOT CLASS "B" AND CONSTRUCTED IN ACCORDANCE WITH SECTION 603.

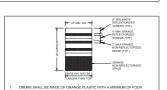
RESTORATION OF CONCRETE GUTTER AND ROCKER GUTTER DISTURBED DURING CONSTRUCTION ACTIVITIES SHALL BE INCLUDED IN THE PRICE BID FOR SITE RESTORATION.

CONCRETE GUTTER & CONCRETE ROCKER GUTTER



BASE MAY BE OF THE BREAKAWAY BALLASTED TYPE.

TRAFFIC CONE DETAIL



DRUMS SHALL BE CONSTRUCTED TO INHIBIT ROLLING IF KNOCKED OVER

EN BALLAST IS REQUIRED BY THE ENGINEER, SAND SHALL BE USED. THE IMUM WEIGHT OF THE BALLAST SHALL BE 50 LBS AND LOCATED ROXIMATELY AT GROUND LEVEL.

DRUM DETAIL



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AVALON AVENUE DRAINAGE IMPROVEMENTS

CONSTRUCTION DETAILS

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DEFINITION - TOPSOILING ENTAILS THE DISTRIBUTION OF SUITARLE OLIALITY SOIL ON

DEFINITION: 1 (IP-SOLINES ENT AILS THE LIST STEDD IT FOR UP SOLITINGSE SUCH AT SOME OF AREAS TO BE VEGETATED. PURPOSE: TO IMPROVE THE SOLI MEDIUM FOR PLANT ESTABLISHMENT AND MAINTENANCE. WHERE APPLICABLE: TOPSOLI SHOULD BE USED WHERE SOLIS ARE: SANDS, GRAVELLY SOLIS, CLAYS, SILTY CLAYS, VERY SHALLOW, OR WHERE THEY ARE EXTREMELY ACID (LESS THAM PA 40) OR SALTY (COMDUCTIVITY GREATER THAN 15 MILLIMPOS PER CENTIMETER); OR WHERE TOPSOIL IS AVAILABLE ON SITE AND ASSURANCE OF IMPROVED VEGETATIVE GROWTH IS DESIRED.

MATERIALS - TOPSOIL SHOULD BE FRIABLE AND LOAMY, FREE OF DEBRIS, OBJECTIONABLE INMERIALS - ID-SUL SHOULD BE PRIORE AND LOWN FIFEE OF DEBIS (SOBELIUM-WEEDS AND STONES, AND CONTAIN NO TOXIC SUBSTANCE THAT MAY BE HARMFULTO PLAN GROW (TH. A PH FANKE OF 5.07-518 ACCEPTABLE. SOLUBLE SALTS SHOULD NOT BE EXCESSIVE (CONDUCTIVITY LESS THAN 0.5 MILLAMOS PER CENTIFIETER) TOPSOL HAULEI IN FROM OFF SITE SHOULD HAVE A MINIMUM ORGANIC MATTER CONTENT OF 2.75 PERCEN ORGANIC MATTER CONTENT MAY BE RAUSED BY ADDITIVES.

STEPPING AND STOOPHING. FILED EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER QUANTITY AND OR QUALITY OF SURFACE SOIL JUSTIFIES STEPPING. STREPPING SHOULD BE CONFIDENCED TO THE MIRECULAR CONSTRUCTION AREA. WHERE FEASIBLE LIME HAVE BEFORE STREPPING AT A FATE DETERMINED BY SOIL TESTS TO DIRECT LISTS TO DIRECT CONTRICTION AREA. WHERE FEASIBLE LIME HAVE BEFORE STREPPING AT A FATE DETERMINED BY SOIL TESTS TO DIRECT CONTRICT OF THE MADE TO THE STREPPING DETERMINED BY SOIL TESTS TO DIRECT CONTRICT OF FERMINATE IN YELECTRATIC CONTRICT. BY CONTRICT OF FERMINATE IN YELECTRATIC CONTRICT OF STREPPING DETERMINED STREPPING DETERMINED AND THE PARTICULARS SOIL STROOPHIES OF TOPSOIL SHOULD BE STULKED SO AND TO DOSSTRUCT WATURAL DEBANGE OR QUALIFIC OFFICE THE HAVE CONTRICT OF THE PARTICULAR SOIL STROOPHIES OF TOPSOIL SHOULD BE VIGILED FOR QUALIFICATION OF THE PARTICULAR SOIL STROOPHIES OF TOPSOIL SHOULD BE VIGILED FOR QUALIFICATION OF THE PARTICULAR SOIL STROOPHIES OF TOPSOIL SHOULD SENDED THE PARTICULAR SOIL STROOPHIES SHOULD BE VIGILED FOR QUALIFIED STROOPHIES. SHOULD BE VIGILED FOR THE DETERMINED THE PARTICULAR SOIL STROOPHIES SHOULD BE VIGILED FOR THE DETERMINED THE PARTICULAR SOIL STROOPHIES SHOULD BE VIGILED. OR TEMPORARY (PG. 7-1) VEGETATIVE COVER FOR SOIL STABILIZATION. WEEDS SHOULD NOT BE ALLOWED TO GROW ON STOCKPILES.

SITE PREPARATION - GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SECRED PREPARATION, SECRING, MILLON APPLICATION SUSSIGNATION OF THE SECRED PREPARATION SECRING, MILLON APPLICATION SUSSIGNATION OF RESTREET FOR HIS REGULERATION FOR LIMITATION OF FREEDED, SHOULD BE APPLIED TO BRING SOLES HT 0 6.5 AND INCORPORATION INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF A KNIES. MIMEDIATELY PROTO TO POSSIGL IN DESTRUCTION, THE SURFACE SHOULD BE SCARRIPED TO PROVIDE A GOOD BROWN STATE OF THE SURFACE SHOULD BE SCARRIPED TO PROVIDE A GOOD BROWN STATE OF THE SURFACE SHOULD BE SCARRIPED TO PROVIDE A GOOD BROWN STATE OF THE SURFACE SHOULD BE SCARRIPED TO PROVIDE A GOOD BROWN STATE OF THE SURFACE SHOULD BE SCARRIPED TO PROVIDE A GOOD BROWN STATE OF THE SURFACE SHOULD BE SCARRIPED TO PROVIDE A GOOD BROWN STATE OF THE SURFACE SHOULD BE SCARRIPED TO PROVIDE A GOOD BROWN STATE OF THE SURFACE SHOULD BE SCARRIPED TO PROVIDE A GOOD BROWN STATE OF THE SURFACE SHOULD BE SCARRIPED TO PROVIDE A GOOD BROWN STATE OF THE SURFACE SHOULD BE SCARRIPED TO PROVIDE A GOOD BROWN STATE OF THE SURFACE SHOULD BE SCARRIPED TO PROVIDE A GOOD BROWN STATE OF THE SURFACE SHOULD BE SCARRIPED TO PROVIDE A GOOD BROWN STATE OF THE SURFACE SHOULD BE SCARRIPED TO PROVIDE A GOOD BROWN STATE OF THE SURFACE SHOULD BE SCARRIPED TO PROVIDE A GOOD BROWN STATE OF THE SURFACE SHOULD BE SCARRIPED TO PROVIDE A GOOD BROWN STATE OF THE SURFACE SHOULD BE SCARRIPED TO PROVIDE A GOOD BROWN STATE OF THE SURFACE SHOULD BE SCARRIPED TO PROVIDE A GOOD BROWN STATE OF THE SURFACE SHOULD BE SCARRIPED TO PROVIDE A GOOD BROWN STATE OF THE SURFACE SHOULD BE SCARRIPED TO PROVIDE A GOOD BROWN STATE OF THE SURFACE SHOULD BE SCARRIPED TO PROVIDE A GOOD BROWN STATE OF THE SURFACE SHOULD BE SCARRIPED TO PROVIDE A GOOD BROWN STATE OF THE SURFACE SHOULD BE SCARRIPED TO PROVIDE A GOOD BROWN STATE OF THE SURFACE SHOULD BROWN STATE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENTATION BASINS, AND WATERWAYS. SEE STANDARDS 11 THROUGH 42.

DUST CONTROL STANDARDS

THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR DUST CONTROL AT THE REQUEST OF MUNICIPAL CONSTRUCTION CODE OFFICIAL, OR UPON INSPECTION BY A S.C.S. OFFICIAL. SEE STANDARDS PG. 16-1 AND 16-2.

SPRAY-ON ADHESIVE - ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS.

ANIONIC ASPHALT EMULSION (WATER DILUTION: 7:1, COARSE SPRAY NOZZLE, 1200 GAL. PER ACRE) LATEX EMULSION (WATER DILUTION : 12.5:1, FINE SPRAY NOZZLE, 235 GAL. PER ACRE) RESIN IN WATER (WATER DILUTION : 4:1. FINE SPRAY NOZZLE, 300 GAL, PER ACRE

TILLAGE - TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE SUED BEFORE SOIL BLOWING STARTS. BEGIN ROWING ON WINDWARD SIDE OF SITE. CHIELLTYPE PLOWS SPACED ABOUT 12 NCHES APART, AND SPRING-TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PROJUCE THE DESIRED EFFECT.

SPRINKLING - SITE IS SPRINKLED UNTIL THE SURFACE IS WET.

BARRIERS - SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL

CALCIUM CHLORIDE - SHALL BE IN THE FORM OF LOOSE DRY GRANULES OR FLAKES FINE MONLY LISED SPREADERS AT A RATE THAT WILL KEE SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. IF USED ON STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS OR ACCUMULATION AROUND PLANTS.

STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

STANDARD FOR STABILIZATION WITH MULCH ONLY

TION: STABILIZING EXPOSED SOILS WITH NON-VEGETATIVE MATERIALS. ISE: TO PROTECT EXPOSED SOIL SURFACES FROM EROSION DAMAGE AND TO REDUCE OFFSITE ENVIRONMENTAL

LIMMAGE. WHERE APPLICABLE: THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO EROSION, WHERE THE SEASON AND OTHER CONDITIONS MAY NOT BE SUITABLE FOR GROWING AN EROSION-RESISTANT COVER OR WHERE STABILIZATION IS NEEDED FOR A SHORT PERIOD UNTIL MORE SUITABLE FROTECTION CAN BE APPLIED. SEE STANDARDS OR, 5 I AND 5-2.

SITE REPARATION - GRADE AS NEEDED AND FEASIBLE, TO PENMIT THE USE OF CONVENTIONAL EQUIPMENT FOR APPLYING AND AND-DINDRING MILCH - ALL GRADING SHOULD BE COME IN ACCORDINGE WITH STANDARD FOR LIND GRADING, P. 19-1. BRIEFLY SHEEDE BEOSON CONTROL PACHICLES SILCH AS INVESTIGATION STRUCTURES, CHANNEL STABILIZATION STRUCTURES, CHANNEL STABILIZATION STRUCTURES, SEDIMENT BASINS, AND WATERWAYS. SEE STANDARDS 11 THROUGH 42.

UNROTTED SMALL GRAIN STRAW, HAY, OR SALT HAY AT 2.0 TO 2.5 TON9 PER ACRE IS SPREAD UNIFORMLY AT 50 TO 115 MC POUNDS PER 1,000 SOURCE FEET AND ANCHORED WITH A MULCH ANCHORNO TOOL, LIQUID MULCH BINDERS, OR NETTING TREDOWN. OTHER SOUTHER LIMITED HAN WE USED F. PROPICED BY THE SOUL CONSERVATION SISTEM. ASPHALT BEAUS SOUR OR CUTSON OR CUTSON SOUTH TO SECURITY OF THE SOUTH SOURCE SOUTH S FOR A LIMITED PRISOD OF THE WHISE TRAVEL BY FEORE, ANNALS, OR MICHIGES IN NOT A PROCESS. "POTHETTIC OR MICHIGAN PRISON AND INSPECTION TO COMMONIC DIGIT STREETS MAY BE USED INDERS STREETS AND IN SUPERIOR DIGITAL CHAPTER WAS A PRISON AND INSPECTION OF A PRISON DESCRIPTOR OF A

SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT OF HAY OR STRAW MULCH TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA AND STEEPINESS OF SLOPES.

INE - DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL.
STRAES MAY BE DRIVEN BEFORE OR AFTER APPLYING MALCH. SECURE MALCH TO SOIL SURFACE BY
THE REVIEW PEGS IN A CRISS-CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH
E ROUND TURNS.

MULCH ANCHORING TOOL - A TRACTOR DRAWN IMPLEMENT ESPECIALLY DESIGNED TRINCH AND ANCHOR MULCH INTO TO SOIL SURFACE. THIS PRACTICE AFFORDS MAXIMUM BROSION CONTROL, BUT ITS USE IS LIMITED TO THOSE SLOPES UPON MAXIMUM BROSION CONTROL, BUT ITS USE IS LIMITED TO THOSE SLOPES UPON MAXIMUM BROSION CONTROL, BUT ITS USE IS LIMITED TO THOSE SLOPES UPON MAXIMUM BROSION OF PRICE TRATTON SHOULD BE DONE ABOUT 3 TO 4 INCHES. ON SLOPING LAND, THE OPERATION SHOULD BE DONE ABOUT 3 TO 4 INCHES. ON SLOPING LAND, THE OPERATION SHOULD BE DONE ON THE CONTROL.

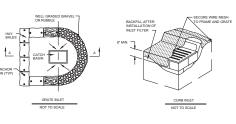
LIQUID MULCH-BINDERS - APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND CATCHES THE MULCH, IN VALLEYS, AND AT CRESTS OF BANKS. REMAINDER OF AREA SHOULD BE UNIFORM IN APPEARANCE.

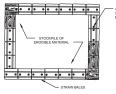
USE ONE OF THE FOLLOWING:

CUTBACK ASPHALT - RAPID CURING (RC-70, RC-250, AND RC-800) OR MEDIUM CURING (MC-250 OR MC-800). APPLY 0.04 GAL/SO, YO. OR 194 GAL/ACRE ON FLAT AREAS AND ON SLOPES LESS THAN 8 FEET HIGH. ON SLOPES 8 FEET OR MORE HIGH, USE 0.075 GAL/SO(YO. OR 383 GAL/ACRE).

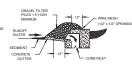
SYNTHETIC OR ORGANIC DINDERS. SEE STANDARDS RG. 6.2

- ALL SEDIMENT SPILLED, DROPPED, WASTED, TRACKED, OR BLOWN ONTO PUBLIC RIGHT-OF-WAY WILL BE REMOVED
 IMMEDIATELY
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.





MATERIAL STOCKPILE DETAIL



- CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM.
 CONTRACTOR TO REMOVE WIRE MESH JUST PRIOR TO PAVING.

CATCH BASIN FILTER DETAIL NOT TO SCALE

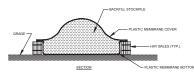
GENERAL NOTES FOR SOIL EROSION AND SEDIMENT CONTROL:

- All erosion and sediment control practices to be installed prior to any major soil disturbance, or in their proper sequence, and maintained until permanent protection is
- Any disturbed areas that will be left exposed more than 30 days, and not subject to construction traffic, will immediately receive a temporary seeding. If the season prevents the establishment of a temporary cover, the disturbed areas will be mulched with straw, or equivalent material, at a rate of two (2) tons per arce, according to State

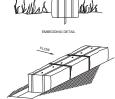
- A bituminous concrete sub-base course will be applied immediately following rough grading and installation of improvements in order to stabilized streets, roads, driveways and parting areas. In areas where no utilities are present, the bituminous concrete sub-base shall be installed within 15 days of the preliminary grading.
- Immediately following initial disturbance or rough grading, all critical areas subject to erosion (i.e. steep slopes and roadway embankments) will receive a temporary immediately knowing initial statisticative or longit grading, at critical areas subject to erosion (i.e. steep slopes and roadway embankments) will receive a temporary seeding in combination with straw mulch or a suitable equivalent, at a rate of two (2) tons per acre, according to State Standards.
- Any steep slopes receiving pipeline installation will be backfilled and stabilized daily, as the installation proceeds (i.e. slopes greater than 3:1).
- In accordance with the standard for permanent vegetative cover for soil stabilization any soil having a Ph of 4 or less or containing iron sulfides shall be covered with a minimum of 12 inches of soil having a Ph of 5 or more prior to seedbed preparation.
- The Cape Atlantic Soil Conservation District shall be notified 72 hours in advance of any land disturbing activity.
- At the time when the site preparation for permanent vegetative stabilization is going to be accomplished, any soil that will not provide a suitable environment to support adequate vegetative ground cover, shall be removed or treated in such a way that will permanently adjust the soil conditions and render it suitable for vegetative ground
- In that N.J.S.A. 4:24-39 et. seq. requires that no certificate of occupancy be issued before the provisions of the certified plan for Soll Erosion and Sediment Control have been complied with for permanent measures, all site work for site plans and all work around individual lots in subdivisions, will have to be completed pror to the District issuing a report of compliance for the issuance of a certificate of occupancy by the

- Conduit outlet protection must be installed at all required outfalls prior to the drainage system becoming operational.
- Unfiltered dewatering is not permitted. Take all necessary precautions during all dewatering operations to minimize sediment transfer.
- Should the control of dust at the site be necessary, the site will be sprinkled until the surface is wet, temporary vegetation cover shall be established o applied in accordance with State Standards for Erosion Control.
- All soil washed, dropped, spilled or tracked outside the limit of disturbance or onto public rights-of-way will be removed immediately.
- Stockpile and staging locations determined in the field, shall be placed within the limit Sockipie and staging locations determined in the letels, shall be placed within the of disturbance according to the certified plan. Staging and stockpiles not located within the limit of disturbance will require certification of a revised Soil Erosion and Sediment Control Plan. The district reserves the right to determine when certification of a new and separate soil erosion and sediment control plan will be required for
- All soil stockpiles are to be temporarily stabilized in accordance with Soil Erosion and Sediment Control Note Number 2.
- All excess materials must be stockpiled in accordance with the standards of Soil Erosion and Sediment Control in New Jersey.
- The site shall at all times be graded and maintained such that all storm water runoff is diverted to Soil Erosion and Sediment Control Facilities.
- 24. All sedimentation structures will be inspected and maintained regularly.
- All catch basin inlets will be protected with crushed stone and filter fabric as shown o
- Any areas used for the contractor's staging, including but not limited to, temp storage of stockpiled materials (E.G. crushed stone, guarry process stone, s excavated materials, etc.), shall be entirely protected by a silt fence along the low elevation side to control sediment runoff.
- Prior to construction, the contractor shall be responsible for notifying the Cape Atlantic Soil Conservation District of any staging and/or stockpile location area for obtaining a Soil Erosion and Sediment Control Certification for these areas
- A crushed stone, vehicle wheel-cleaning blanket shall be installed at the contractor's staging yard and/or stockpile areas to prevent off-site tracking of sediment by construction vehicles onto public reads. Blanket shall be 20 x 50 x 6 rminimum), 17 to 2° crushed stone inches in diameter. Said banket shall be understan with a suitable synthesic filter fathic and manitahed in good order.

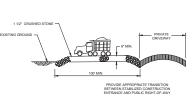
ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH THE "STANDARDS FOR SOIL FROSION AND SEDIMENT CONTROL IN NEW JERSEY". THE FOITION JUNIURY 2014. REVISED JULY 2017.



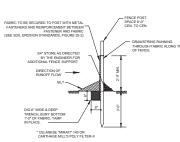
SOIL STOCKPILE DETAIL



STRAW BALE FILTER DETAIL



STABILIZED CONSTRUCTION ENTRANCE DETAIL NOT TO SCALE



SILT FENCE DETAIL NOT TO SCALE

M M MOTT IVI

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Drawn Description Ch'k'd App'd THOMAS R. THORNTON NJ PROFESSIONAL ENGINEER LIC. No. 24GE0417



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SESC-101

AVALON AVENUE DRAINAGE IMPROVEMENTS

AVALON AVENUE STORMWATER BRANCH PROFILES