PRELIMINARY & FINAL MAJOR SUBDIVISION **FOR**

14 EAST GARFIELD AVENUE

BLOCK 101, LOT 3 TAX MAP SHEET #22 14 EAST GARFIELD AVENUE BOROUGH OF ATLANTIC HIGHLANDS, MONMOUTH COUNTY, NEW JERSEY

PROPERTY OWNERS WITHIN 200'

7 E LINCOLN AVE P & C REALTY 2 LLC **188 1ST AVE** ATLANTIC HIGHLANDS R & E PTRS LL 165 1ST AVE PFLEGER HEH REALTY 8 MEMORIAL PKWY BELLAVANCE, PATRICIA **18 E GARFIELD AVE** 91 3RD AVE FISHER, MARK & SHARON **153 1ST AVE** 15 E GARFIELD AVE KING, BRIAN & STEPHANIE 14 MEMORIAL PKWY MANIGRASSO, MICHAEL & JOAN 95 3RD AVE FIRST METHODIST CHURCH **140 1ST AVE** STEPHEN, KELLY & EUGENIA, NIXON 93 3RD AVE COLLINS, MICHAEL J **160 1ST AVE F&H REALTY** 179 1ST AVE 179 FIRST AVENUE LLC 12 MEMORIAL PKWY KEEL, WILLIAM 15-17 E LINCOLN AVE COOMBS, JOHN RYAN 9 E GARFIELD AVE MENDOZA, GREGORY **171 1ST AVE** OCEANIC REALTY CORF WEBER, DANIELLE M 9 E LINCOLN AVE 13 E GARFIELD AVE 178 1ST AVE 85 3RD AVE SWEENEY, MARK J 6 MEMORIAL PKWY WESCH, LINDA A 11 E GARFIELD AVE DREW, WILLIAM B & ERIN P 99 3RD AVE MCGOLDRICK, JOHN & DONNA **179 1ST AVE** 179 FIRST AVENUE LLC 13 E LINCOLN AVE INGENITO, AUSTIN D & CHRISTINE P 20 MEMORIAL PKWY STEIDEL, ELSIE

TAGUER, SEAN & LEWIS, MEGAN

URSO, RICK & SUSANNE

BARNETT, MARC B & CAROL

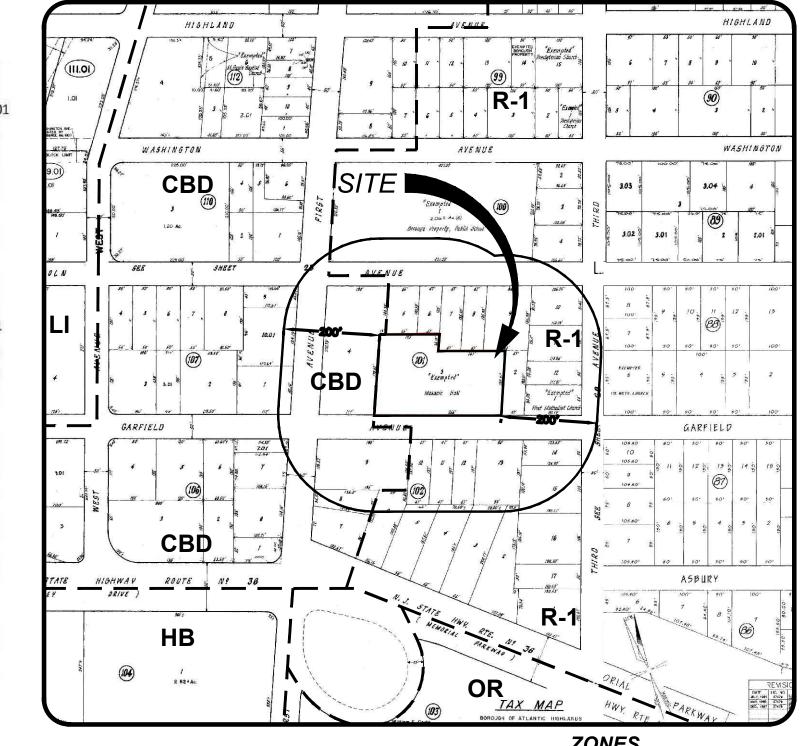
DORSEY, JOSEPH III & SAMUELSON, BRI

10 INDUSTRIAL WAY E 241 MAIN STRECT PO BOX 355 **8 MEMORIAL PKWY 18 E GARFIELD AVE** 91 3RD AVE PO BOX 355 **15 E GARFIELD AVE** 14 MEMORIAL PKWY 95 3RD AVE 50 OCEAN AVE 93 3RD AVE 132 LEWIS STREET, UNIT A-2 40 DUCHESS DR 12 MEMORIAL PKWY 15 E LINCOLN AVE # 17 9 E GARFIELD AVE 24 YEOMALT AVE 9 E LINCOLN AVE 13 E GARFIELD AVE PO BOX 2749 85 3RD AVE 1395 NW 9TH WAY 11 E GARFIELD AVE 99 3RD AVE 40 DUCHESS DR 3530 HENRY HUDSON PKWY # 70 BRONX ,NY 10463 20 MEMORIAL PKWY 11 E LINCOLN AVE 89 3RD AVE

97 3RD AVE

17 E GARFIELD AVE

101 5 EATONTOWN ,NJ 07724 102 8 WOODBRIDGE, NJ 07095 107 10.01 ATLANTIC HIGHLANDS ,NJ 07716 102 5 ATLANTIC HIGHLANDS , NJ 07716 ATLANTIC HIGHLANDS ,NJ 07711 ATLANTIC HIGHLANDS , NJ 07716 ATLANTIC HIGHLANDS , NJ 0771 ATLANTIC HIGHLANDS ,NJ 07716 ATLANTIC HIGHLANDS , NJ 07716 HIGHLANDS, NJ 07732 ATLANTIC HIGHLANDS, NJ 07716 EATONTOWN ,NJ 07724 MONROE ,NJ 08831 ATLANTIC HIGHLANDS, NJ 07716 ATLANTIC HIGHLANDS ,NJ 0771 ATLANTIC HIGHLANDS ,NJ 07716 ADDISON ,TX 75001 ATLANTIC HIGHLANDS ,NJ 07716 LAKE PANASOFFKEE ,FL 33538 ATLANTIC HIGHLANDS ,NJ 07716 ATLANTIC HIGHLANDS ,NJ 07716 MONROE ,NJ 08831 ATLANTIC HIGHLANDS ,NJ 07716 ATLANTIC HIGHLANDS ,NJ 07716 ATLANTIC HIGHLANDS ,NJ 07716 ATLANTIC HIGHLANDS ,NJ 07716 ATLANTIC HIGHLANDS ,NJ 07716



UTILITY CONTACTS

1500 Florence Ave Union Beach, NJ 07735

Shrewsbury, NJ 07702

11 E LINCOLN AVE

17 E GARFIELD AVE

89 3RD AVE

97 3RD AVE

NEW JERSEY AMERICAN WATER COMPANY Attn: Construction Department 661 Shrewsbury Ave

ATLANTIC HIGHLANDS WATER & SEWER DEPARTMENT

Supervisor, Water & Sewer Dept 100 First Ave

Atlantic Highlands, NJ 07716

COMCAST COMMUNICATIONS OF MONMOUTH COUNTY Ron Bertrand, Construction Foreman 403 South St

540 Broad St, Room 1705

Eatontown, NJ 07724

Newark NJ 07101

TOWNSHIP OF MIDDLETOWN SEWERAGE AUTHORITY Robert Eckert, Executive Director

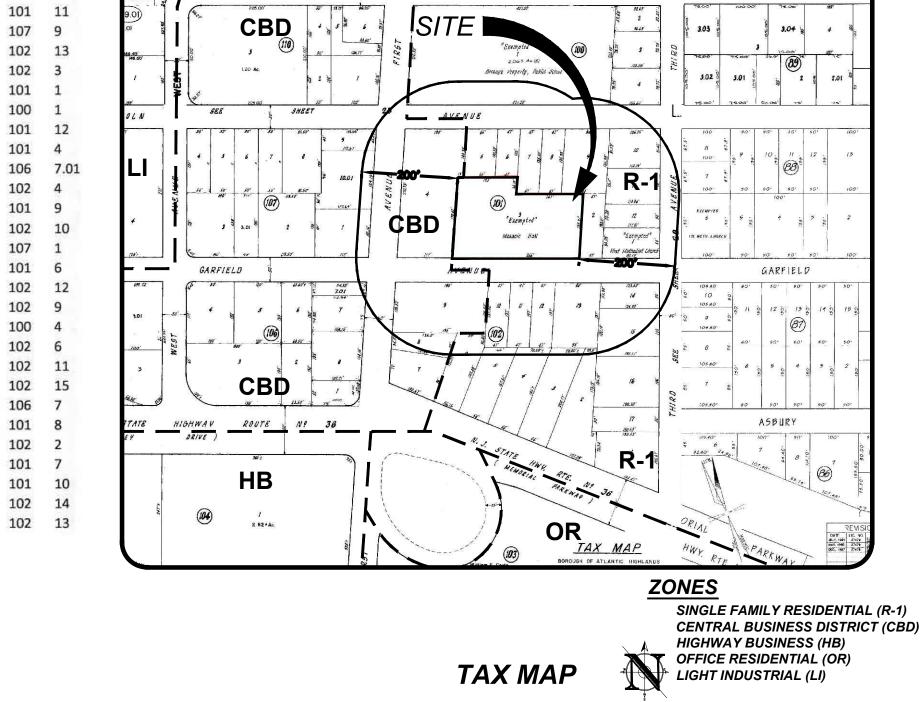
PO Box 205 Belford, NJ 07718

NEW JERSEY NATURAL GAS COMPANY Attn: Joan Purcaro

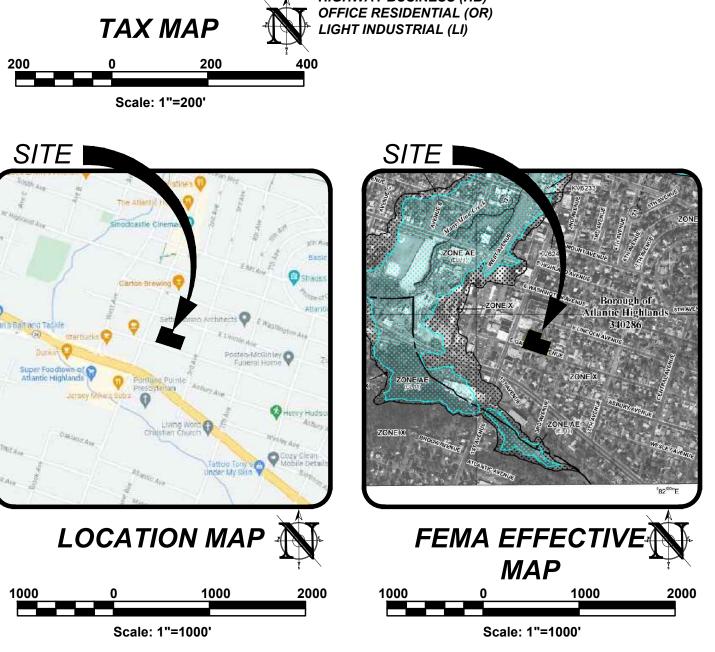
PO Box 1464 Wall, NJ 07719

MONMOUTH COUNTY BAYSHORE OUTFALL AUTHORITY

Attn: Executive Director 200 Harbor Way PO Box 184 Belford, NJ 07718



USGS MAP



CERTIFICATIONS	
OWNER	
I HEREBY CERTIFY THAT I AM THE OWNER OF RECORD OF THE HEREIN DEPICTED AND THAT I CONCUR WITH THE PLAN.	PLAN
OWNER	DATE
NOTARY PUBLIC	
SWORN AND SUBSCRIBED TO BEFORE ME THIS DAY OF	
NOTARY PUBLIC	DATE
PLANNING BOARD	
THE APPLICATION WAS APPROVED AS A MAJOR SUBDIVISION E OF ATLANTIC HIGHLANDS PLANNING BOARD ON	Y THE BOROUGH
CHAIRMAN	DATE
SECRETARY	DATE
ENGINEER	DATE

	INDEX OF SHEETS:		
SHEET #:	SHEET TITLE:	INITIAL RELEASE:	REV. DATE:
C100	TITLE SHEET	12/18/23	07/08/24
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C200	EXISTING CONDITIONS & SITE PREPARATION PLAN	12/18/23	07/08/24
C300	SUBDIVISION PLAT	12/18/23	07/08/24
C301	SITE LAYOUT PLAN	12/18/23	07/08/24
C400	GRADING & UTILITIES PLAN	12/18/23	07/08/24
C700	CONSTRUCTION DETAILS	12/18/23	07/08/24
C800	SOIL EROSION & SEDIMENT CONTROL PLAN	12/18/23	07/08/24
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PROJECT INFORMATION

14 EAST GARFIELD AVENUE

14 EAST GARFIELD AVENUE **BOROUGH OF ATLANTIC HIGHLANDS**

152 MAPLE AVENUE

2 HENESSEY BOULEVARD, SUITE 1 ATLANTIC HIGHLANDS, NJ 07716

APPLICANT'S PROFESSIONALS

ATTORNEY: RICK BRODSKI, ESQ.

ANSELL GRIMM & AARON, PC 1500 LAWRENCE AVENUE OCEAN, NJ 07712

SURVEYOR: INSITE SURVEYING, LLC 1955 ROUTE 34, SUITE 1A WALL, NJ 07719



NJ ONE CALL....800-272-1000



732-531-7100 (Ph) 732-531-7344 (Fax) InSite@InSiteEng.net www.InSiteEng.net

CERTIFICATE OF AUTHORIZATION: 24GA28083200

1955 ROUTE 34, SUITE 1A, WALL, NJ 07719

LICENSED IN: NEW JERSEY, NEW YORK, PENNSYLVANIA DELAWARE, CONNECTICUT, NORTH CAROLINA COLORADO, & DISTRICT OF COLUMBIA

AUTION: IF THIS DOCUMENT DOES NOT CONTAIN THE SIGNATU NJPE 43118 NJPP 5726 PAPE 61968 DEPE 3813 NYPE 802295 CTPE 23291

NCPE 33336 DCPE 900682 COPE 36605

REVISIONS

REV PER COMPLETENESS COMMENTS
REV PER INCOMPLETENESS COMMENTS
INITIAL RELEASE

DESIGNED BY: SGM DATE: 12/18/23 JOB #: **23-756-12** CHECKED BY: **JLF** CAD ID: 23-756-12r3

NOT FOR CONSTRUCTION

FOR CONSTRUCTION PLAN INFORMATION

PRELIMINARY & FINAL

MAJOR SUBDIVISION

TITLE SHEET

GRADING NOTES

- 1. ALL PROPOSED ON-SITE CURBING TO BE VERTICAL CURB WITH 6" REVEAL, UNLESS OTHERWISE STATED.
- 2. ALL CURBS SHALL BE DEPRESSED AT CROSSWALKS AND CONFORM TO APPLICABLE STATE AND FEDERAL BARRIER FREE DESIGN STANDARDS.
- 3. ALL CURB INLETS TO USE 6" CASTING. TOP OF CASTING TO FOLLOW TOP OF CURB ELEVATIONS.
- FOR ALL AREAS LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY, ACCESSIBILITY SHALL BE IN ACCORDANCE WITH THE CURRENT PUBLIC RIGHTS-OF-WAY ACCESS ADVISORY COMMITTEE GUIDELINE (PROWAG).
 - a. ALL WALKING SURFACES TO HAVE A MAXIMUM RUNNING SLOPE OF 1:20 (5%). b. ALL WALKING SURFACES GREATER THAN 1:20 (5%) WILL REQUIRE HANDRAILS.
 - c. RAMP RUNS SHALL HAVE A MAXIMUM CROSS SLOPE OF 1:12 (8.3%).

 - d. ALL WALKING SURFACES TO HAVE A MAXIMUM CROSS SLOPE OF 1:48 (2%). e. ALL CROSSWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 1:48 (2%).
 - ALL GRADING WITHIN GRASSED AREAS TO BE A MINIMUM OF 2% AND A MAXIMUM OF 3:1 SLOPE UNLESS OTHERWISE NOTED.
- 6. POSITIVE DRAINAGE TO BE MAINTAINED FROM ALL BUILDINGS IN ACCORDANCE WITH APPLICABLE REGULATIONS AND BUILDING CODE.
- 7. FLOOR ELEVATIONS, ADJACENT GRADE, DOORWAY LOCATIONS AND ELEVATIONS SHALL BE CONFIRMED WITH ARCHITECTURAL PLANS PRIOR TO
- 8. ALL EXCAVATED SOIL TO BE DISPOSED SHALL BE PROPERLY CLASSIFIED, HANDLED, AND DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL LOCAL,
- 9. ALL GRASSED AREAS TO HAVE A MINIMUM OF 4" CLEAN TOP SOIL, WHEN SOD IS BEING INSTALLED, OR 6" CLEAN TOP SOIL FOR SEEDING

- PIPE LENGTHS INDICATED ARE MEASURED CENTER TO CENTER OF EACH STRUCTURE.
- SHOP DRAWINGS AND PRODUCT CATALOG INFORMATION FOR ALL STORM DRAINAGE SEWER STRUCTURES. CONDUITS. MATERIALS, AND APPURTENANCES. TO BE PROVIDED TO THE PROJECT ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PURCHASING
- BUILDING ROOF LEADERS AND CLEAR WASTE FROM BUILDING TO CONNECT TO SITE STORM SEWER SYSTEM. CONNECTION POINTS WILL BE COORDINATED WITH ARCHITECTURAL AND PLUMBING PLANS.
- 4. UNLESS OTHERWISE INDICATED: a. RCP SHALL BE CLASS 3 WALL, BELL AND SPIGOT TYPE WITH O-RING GASKETS, UNLESS OTHERWISE NOTED.
- b. HDPE PIPES SHALL BE ADS N-12 WITH WATER TIGHT JOINTS OR APPROVED EQUAL.
- c. STORM SEWER PVC PIPES SHALL BE SCHEDULE 80 WITHIN PAVED AREAS AND SCHEDULE 40 IN LANDSCAPED AREAS, UNLESS OTHERWISE

SANITARY SEWER NOTES

- CONTRACTOR TO PERFORM TEST PITS TO VERIFY EXISTING UTILITY DEPTHS, SIZES AND LOCATIONS PRIOR TO CONNECTING PROPOSED SEWER TO EXISTING SEWER. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY CONFLICTS SO THAT DESIGN MODIFICATIONS CAN BE MADE
- 2. PIPE LENGTHS INDICATED ARE MEASURED CENTER TO CENTER OF EACH STRUCTURE.
- PROPOSED BUILDINGS SHALL BE SERVICED BY EXISTING SANITARY SEWER FROM THE BOROUGH OF ATLANTIC HIGHLANDS DEPARTMENT OF WATER
- ALL SANITARY SEWER MAINS, SEWER LATERALS, AND APPURTENANCES SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH BOROUGH OF ATLANTIC HIGHLANDS DEPARTMENT OF WATER AND SEWER AND NJDEP REQUIREMENTS.
- SHOP DRAWINGS AND PRODUCT CATALOG INFORMATION FOR ALL SANITARY SEWER, CONDUITS, MATERIALS, AND APPURTENANCES, TO BE PROVIDED TO THE PROJECT ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PURCHASING.
- ANY DAMAGE CAUSED TO THE EXISTING SANITARY SEWER SYSTEM AS A RESULT OF CONSTRUCTION ACTIVITIES (TO BE DETERMINED BY THE SEWER OWNER) SHALL BE REPAIRED BY THE CONTRACTOR, AT THE COST OF THE CONTRACTOR AND TO THE SEWER OWNER'S SATISFACTION.
- 7. PRIOR TO ACCEPTANCE, AS-BUILT PLANS FOR THE SANITARY SEWER SYSTEM SHALL BE SUBMITTED AND APPROVED.
- DEPARTMENT OF WATER AND SEWER RULES AND REGULATIONS, AND WITNESSED AND APPROVED BY THE AUTHORITY ENGINEER.
- 9. REFER TO TECHNICAL SPECIFICATIONS FOR SANITARY SEWER FOR MATERIAL, INSTALLATION SPECIFICATIONS AND TESTING REQUIREMENTS.
- 10 IN ACCORDANCE WITH N. LA. C. 7:10-11 10(E)5, ALL WATER MAINS AND SANITARY SEWER LINES SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 10 FEET JE SUICH 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 ROTTOM OF THE WATER MAIN OR WITH SLICH OTHER SEPARATION EXPRESSLY APPROVED BY THE NJDEP. 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 WATERTIGHT CONSTRUCTION (DUCTILE IRON), WITH WATERTIGHT JOINTS THAT ARE A MINIMUM OF 10 FEET FROM THE WATER MAIN.
- 11. UNLESS OTHERWISE INDICATED SANITARY SEWER MAINS SHALL BE PVC SDR-35
- A MARKER STAKE PROTRUDING A MINIMUM OF FOUR FEET ABOVE THE GROUND SURFACE SHALL BE PLACED TO INDICATE THE END OF THE CONSTRUCTION STUBS FOR BUILDING CONNECTIONS, OR STUBS SHALL BE TURNED AND EXTENDED ABOVE GRADE BY FOUR FEET AND CAPPED.
- 13. GREASE TRAPS MUST BE CONSTRUCTED IN CONFORMANCE WITH THE REQUIREMENTS OF THE NATIONAL STANDARD PLUMBING CODE AND THE BOROUGH OF ATLANTIC HIGHLANDS BUILDING DEPT
- 14. CIRCULAR HOLE SAWS WHICH ARE APPROPRIATELY SIZED OR HAND DRILLS MUST BE USED TO MAKE OPENINGS IN EXISTING SEWERS TO RECEIVE LATERALS. JACKHAMMERS, SLEDGEHAMMERS AND OTHER UNSUITABLE TOOLS OR MACHINERY WHICH MAY DAMAGE THE SEWER MAIN ARE NOT ALLOWED TO BE USED TO MAKE LATERAL OPENINGS. ALL DEBRIS MUST BE REMOVED AND NOT ALLOWED TO FALL INTO THE PIPE.
- 1. CONTRACTOR TO PERFORM TEST PITS TO VERIFY EXISTING UTILITY DEPTHS, SIZES AND LOCATIONS PRIOR TO CONNECTING PROPOSED WATER MAINS TO EXISTING WATER MAINS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY CONFLICTS SO THAT DESIGN
- PROPOSED BUILDINGS SHALL BE SERVICED BY EXISTING POTABLE WATER FROM THE BOROUGH OF ATLANTIC HIGHLANDS DEPARTMENT OF WATER
- SHOP DRAWINGS AND PRODUCT CATALOG INFORMATION FOR ALL WATER, CONDUITS, MATERIALS, AND APPURTENANCES, TO BE PROVIDED TO THE PROJECT ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PURCHASING.
- PRIOR TO ACCEPTANCE, AS-BUILT PLANS FOR THE WATER SYSTEM SHALL BE SUBMITTED AND APPROVED.
- 5. REFER TO TECHNICAL SPECIFICATIONS FOR WATER MATERIAL, INSTALLATION SPECIFICATIONS AND TESTING REQUIREMENTS.
- 6. ALL WATER MAINS, WATER SERVICES AND APPURTENANCES SHALL BE CONSTRUCTED, TESTED AND DISINFECTED IN ACCORDANCE WITH BOROUGH OF ATLANTIC HIGHLANDS DEPARTMENT OF WATER AND SEWER AND NJDEP REQUIREMENTS.
- 7. ALL WATER SERVICES TO BE INSTALLED IN CONFORMANCE WITH THE REQUIREMENTS OF THE PLUMBING SUBCODE PROMULGATED BY THE NEW JERSEY DEPARTMENT OF COMMUNITY AFFAIRS PURSUANT TO THE STATE UNIFORM CONSTRUCTION CODE ACT (NJAC 5:23-3.15).
- 8. ALL NEW WATER MAINS SHALL BE LAID WITH A MINIMUM OF 3.5 FEET OF COVER OVER THE PIPE TO PREVENT FREEZING.
- IN ACCORDANCE WITH N.J.A.C. 7:10-11.10(E)5, ALL WATER MAINS AND SANITARY SEWER LINES SHALL BE SEPARATED BY A HORIZONTAL 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 OTHER SEPARATION FX/PRESSLY APPROVED BY THE NJDEP. 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 WATERTIGHT CONSTRUCTION (DUCTILE IRON), WITH WATERTIGHT JOINTS THAT ARE A MINIMUM OF 10 FEET FROM THE WATER MAIN.
- 10. UNLESS OTHERWISE INDICATED DIP WATER MAIN SHALL BE CLASS 53 CEMENT LINED DUCTILE IRON PIPE. (POLYETHYLENE ENCASEMENT)
- 11. A MARKER STAKE PROTRUDING A MINIMUM OF FOUR FEET ABOVE THE GROUND SURFACE SHALL BE PLACED TO INDICATE THE END OF THE CONSTRUCTION STUBS FOR BUILDING CONNECTIONS.

PUBLIC UTILITY NOTES

- 1. ALL PUBLIC UTILITY SERVICE CONNECTIONS TO BUILDINGS TO BE LOCATED UNDERGROUND.
- 2. ELECTRICAL, TELEPHONE, CATV AND ALL OTHER WIRE-SERVED UTILITY EXTENSIONS AND SERVICES SHALL BE INSTALLED UNDERGROUND WITH STANDARDS ESTABLISHED BY THE SERVICING UTILITY COMPANY.
- GAS AND ELECTRICAL SERVICE CONDUITS AND STRUCTURES MUST BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS AND PROVIDED DESIGN BY (FI FCTRIC/GAS COMPANY). THE CONTRACTOR MUST PROVIDE RECORD "AS BUILT" PLANS OF ALL CONDUITS AND STRUCTURES TO (ELECTRIC/GAS COMPANY) PROJECT ENGINEER AND THE PROJECT OWNER.
- TELEPHONE AND CATV SERVICE CONDUIT AND STRUCTURES MUST BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF VERIZON AND COMCAST. THE CONTRACTOR MUST PROVIDE RECORD "AS BUILT" PLANS OF ALL CONDUITS AND STRUCTURES TO VERIZON, COMCAST, PROJECT
- CONTRACTOR SHALL MAINTAIN FIELD NOTES, PHOTOGRAPHS, AND REDLINE PLANS CLEARLY RECORDING THE LOCATION OF ALL UNDERGROUND INSTALLATIONS. THESE RECORDS SHALL BE PROVIDED TO THE ENGINEER UPON REQUEST.

BOROUGH OF ATLANTIC HIGHLANDS NOTES:

- AS-BUILT DRAWINGS ARE REQUIRED FOR THE LOCATION OF PLUMBING WYES ON THE PROPOSED SEWER MAIN TO BE SUBMITTED TO THE ATLANTIC HIGHLANDS SEWER DEPARTMENT POST CONSTRUCTION.
- BASEMENT SUMP PUMPS SHALL DISCHARGE THROUGH THE FACE OF CURB WITHIN EAST GARFIELD AVENUE. SINCE THERE IS NO STORMWATER PIPE WITHIN EAST GARFIELD AVENUE TO DIRECTLY CONNECT TO. PIPES MUST CONTAIN A CLEAN-OUT LABELED "STORM" WITHIN THE RIGHT OF

GENERAL NOTES

<u>SUBJECT PROPERTY</u>
TAX MAP 22: BLOCK 101, LOT 3, BOROUGH OF ATLANTIC HIGHLANDS, MONMOUTH COUNTY, NEW JERSEY CENTER SITE COORDINATES: 574,717.77 N 620,636.90 E.

VERTICAL DATUM: NAVD88

IIS PLAN SET HAS BEEN PREPARED FOR THE PURPOSE OF PRELIMINARY & FINAL SITE SUBDIVISION MUNICIPAL AND AGENCY REVIEW AND APPROVAL. THE PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL ALL FINAL APPROVALS HAVE BEEN OBTAINED AND ALL THE CONDITIONS OF THE APPROVALS HAVE BEEN SATISFIED.

SURVEY DATA
SURVEY INFORMATION CONTAINED HEREON IS BASED ON A FIELD SURVEY PERFORMED BY INSITE SURVEYING LLC, ENTITLED "BOUNDARY & TOPOGRAPHIC SURVEY OF BLOCK 101, LOT 3, 14 EAST GARFIELD AVENUE, BOROUGH OF ATLANTIC HIGHLANDS, MONMOUTH COUNTY, NEW JERSEY" BEING DATED 04/19/23 AND LAST REVISED 04/16/24

HORIZONTAL DATUM: NAD83

CCORDING TO FEMA'S EFFECTIVE FIRM ENTITLED "FIRM - FLOOD INSURANCE RATE MAP (FIRM), MONMOUTH COUNTY, NEW JERSEY (ALL JURISDICTIONS)," COMMUNITY PANEL 34025C0066F, DATED 9/25/09, THE SITE IS LOCATED IN ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN ACCORDING TO FEMA'S CURRENT PRELIMINARY FIRM ENTITLED, "PRELIMINARY FLOOD INSURANCE RATE MAP (FIRM)", COMMUNITY PANEL #34025C0066G, DATED 01/30/15, THE SITE IS LOCATED IN ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN. BOTH FEMA MAPS REFERENCE THE NAVD88 VERTICAL DATUM.

UNDERGROUND UTILITIES NOTIFICATION FOR ANY EXCAVATION IN NEW JERSEY, THE CONTRACTOR MUST CALL NEW JERSEY ONE CALL SERVICE AT 1-800-272-1000 FOR A MARKOUT REQUEST NO LESS THAN THREE (3) WORKING DAYS PRIOR TO STARTING ANY EXCAVATION.

VERIFICATION OF UTILITIES

THE CONTRACTOR IS DIRECTED TO THE FACT THAT THE APPROXIMATE LOCATIONS OF KNOWN UTILITY STRUCTURES AND FACILITIES (INCLUDING BUT NOT LIMITED TO SANITARY SEWERS, STORM SEWERS, POTABLE WATER LINES AND APPURTENANCES, NATURAL GAS LINES, ELECTRIC, TELEPHONE AND CATV LINES AND UNDERGROUND STORAGE TANKS) THAT MAY BE ENCOUNTERED WITHIN AND ADJACENT TO THE LIMITS OF THE WORK ARE SHOWN ON THE PLANS. THE ACCURACY AND COMPLETENESS OF THIS INFORMATION IS NOT GUARANTEED BY THE ENGINEER, AND THE CONTRACTOR IS ADVISED TO VERIFY IN THE FIELD ALL THE FACTS CONCERNING THE LOCATION AND ELEVATION OF THESE LITH LITIES OR OTHER CONSTRUCTION OBSTACLES IMPACTED BY NEW CONSTRUCTION PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER. IN WRITING, PRIOR TO CONSTRUCTION, OF ANY DISCREPANCIES WHICH MAY AFFECT THE PROJECT DESIGN.

UNLESS OTHERWISE NOTED HEREON, ALL SITE WORK SHALL BE CARRIED OUT IN CONFORMANCE WITH THE PROVISIONS OF THE "NEW JERSEY DEPARTMENT OF TRANSPORTATION (NJDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". LATEST EDITION

- a. ALL CONSTRUCTION AND DEMOLITION SHALL CONFORM WITH ANY APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. CONTRACTOR HAS SOLE RESPONSIBILITY FOR SITE SAFETY WAYS, MEANS AND METHODS OF CONSTRUCTION, AND SHALL CONFORM TO AND ABIDE BY ALL CURRENT OSHA STANDARDS OR REGULATIONS. SAFE CONSTRUCTION PRACTICES REMAIN THE OBLIGATION OF THE CONTRACTOR. THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE FEDERAL. STATE AND LOCAL PERMITS PRIOR TO CONSTRUCTION.
- b. THE CONTRACTOR SHALL PERFORM ALL WORK IN A FINISHED AND WORKMANLIKE MANNER TO THE ENTIRE SATISFACTION OF THE OWNER AND IN ACCORDANCE WITH THE BEST RECOGNIZED TRADE PRACTICES. c. THE CONTRACTOR SHALL PROVIDE NECESSARY BARRICADES, SUFFICIENT LIGHTS, SIGNS, AND OTHER TRAFFIC CONTROL METHODS AS
- MAY BE NECESSARY WITHIN THE PROJECT FOR THE PROTECTION AND THE SAFETY OF THE PUBLIC AND MAINTAIN THROUGHOUT d. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE CLEANUP WITHIN THE CONSTRUCTION AREA AND SHALL DISPOSE OF DEBRIS IN
- ACCORDANCE WITH ANY LOCAL, STATE OR FEDERAL REGULATIONS. e. ANY DAMAGE TO PUBLIC STREETS, CURBS, SIDEWALKS AND UTILITIES AS A RESULT OF SITE CONSTRUCTION ACTIVITIES SHALL BE

REPAIRED BY THE CONTRACTOR.

CONSTRUCTION PERMITS/INSPECTIONS
CONTRACTOR RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS INCLUDING ROAD OPENING PERMITS, PREPARATION OF TRAFFIC CONTROL PLANS, INSTALLATION AND MAINTENANCE OF TRAFFIC CONTROL AND COORDINATION OF ALL INSPECTIONS REQUIRED BY THE BOROUGH OF ATLANTIC HIGHLANDS, COUNTY OF MONMOUTH, BOROUGH OF ATLANTIC HIGHLANDS DEPARTMENT OF WATER AND SEWER, AND ANY OTHER APPLICABLE AGENCY HAVING JURISDICTION OVER THE PROJECT.

12. ADA COMPLIANCE a. ALL SITE IMPROVEMENTS LOCATED ON THE PRIVATE PROPERTY SHALL BE IN COMPLIANCE WITH THE 2010 ADA STANDARDS FOR

- ACCESSIBLE DESIGN, STANDARDS FOR PUBLIC ACCOMMODATIONS AND COMMERCIAL FACILITIES: TITLE III. b. ALL SITE IMPROVEMENTS LOCATED WITHIN PUBLIC RIGHT-OF-WAY SHALL BE IN COMPLIANCE WITH THE CURRENT PUBLIC RIGHTS-OF-WAY ACCESS ADVISORY COMMITTEE GUIDELINES.
- 13. STORMWATER POLLUTION PREVENTION PLAN

 a. SOIL EROSION PLANS HAVE BEEN PREPARED TO ADDRESS EROSION AND SEDIMENT CONTROL COMPONENT OF THE STORMWATER DE
- POLLUTION PREVENTION PLAN (SPPP) AT TIME OF DESIGN. ALL OTHER COMPONENTS OF THE SPPP AND GENERAL STORMWATER PERMIT NO. NJ6008823 TO BE RESPONSIBILITY OF THE DEVELOPER AND/OR SITE CONTRACTOR. b. CONTRACTOR/DEVELOPER MUST PREPARE AND FOLLOW A STORMWATER POLLUTION PREVENTION PLAN FOR THE DURATION OF THE
- HIS PLAN SET CONSISTS OF MULTIPLE SHEETS. INDIVIDUAL PAGES SHALL NOT BE UTILIZED FOR CONSTRUCTION ON THEIR OWN AS NOTES AND INFORMATION PROVIDED ON OTHER SHEETS MAY IMPACT WORK REQUIREMENTS. CONTRACTOR SHALL REVIEW AND UTILIZE ENTIRE PLAN SET FOR CONSTRUCTION.

SITE PREPARATION NOTES

- PRIOR TO STARTING ANY DEMOLITION CONTRACTOR IS RESPONSIBLE FOR/TO: a. ENSURE COPIES OF ALL PERMITS AND APPROVALS ARE ON SITE FOR REVIEW.
- b. THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO SITE DISTURBANCE.
- c. ALL UTILITIES AND SERVICES, INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN THE LIMITS OF DISTURBANCE, SHALL BE VERTICALLY AND HORIZONTALLY LOCATED. THE CONTRACTOR SHALL USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL UNDERGROUND UTILITIES.
- d. PROTECT AND MAINTAIN IN OPERATION. ALL ACTIVE SYSTEMS THAT ARE NOT BEING REMOVED DURING ALL DEMOLITION ACTIVITIES. e. FAMILIARIZE THEMSELVES WITH THE APPLICABLE UTILITY SERVICE PROVIDER REQUIREMENT AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION AS IDENTIFIED OR REQUIRED FOR PROJECT. THE CONTRACTOR SHALL PROVIDE THE
- OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTION AND UTILITY COMPANY REQUIREMENTS. f. COORDINATION WITH UTILITY COMPANIES REGARDING WORKING "OFF-PEAK" HOURS OR ON WEEKENDS AS MAY BE REQUIRED TO
- MINIMIZE THE IMPACT ON THE AFFECTED PARTIES.
- g. THE FIRM OR ENGINEER OF RECORD IS NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISIONS. CONTRACTOR IS TO PROCEED WITH THE DEMOLITION IN A SYSTEMATIC AND SAFE MANNER, FOLLOWING ALL THE OSHA REQUIREMENTS, TO INSURE PUBLIC AND
- h. THE CONTRACTOR SHALL PROVIDE ALL THE "MEANS AND METHODS" NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES, AND ANY OTHER IMPROVEMENTS THAT ARE REMAINING ON OR OFF SITE.
- IN ABSENCE OF SPECIFIC SPECIFICATION. THE CONTRACTOR SHALL PERFORM EARTH MOVEMENT ACTIVITIES, DEMOLITION AND REMOVAL OF
- ALL FOUNDATION WALLS, FOOTINGS, AND OTHER MATERIALS WITHIN THE LIMITS OF DISTURBANCE IN ACCORDANCE WITH DIRECTION BY OWNER'S GEOTECHNICAL ENGINEER
- DEMOLITION ACTIVITIES AND EQUIPMENT SHALL NOT USE AREAS OUTSIDE THE DEFINED PROPERTY LINES, WITHOUT WRITTEN PERMISSION OF
- USE DUST CONTROL MEASURES TO LIMIT THE AMOUNT OF AIRBORNE DUST AND DIRT RISING AND SCATTERING IN THE AIR TO WITHIN FEDERAL, STATE, AND/OR LOCAL STANDARDS. AFTER THE DEMOLITION IS COMPLETE, ADJACENT STRUCTURES AND IMPROVEMENTS SHALL BE CLEANED OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL
- CONTRACTOR IS RESPONSIBLE TO SAFEGUARD SITE AS NECESSARY TO PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE
- UNAUTHORIZED ENTRY OF PERSONS AT ANY TIME. THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING ITEMS/CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION OTHER THAN THAT ALL METHODS AND MEANS ARE TO BE IN ACCORDANCE WITH STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OSHA AND OTHER SAFETY PRECAUTIONS NECESSARY
- ALL UTILITY CONNECTIONS TO ADJACENT BUILDINGS MUST STAY ACTIVE DURING CONSTRUCTION.

BUILDINGS. WITHIN THE PROJECT BOUNDARY. ARE TO BE REMOVED AND DISPOSED OFF SITE.

- THE CONTRACTOR IS RESPONSIBLE TO ENSURE SHUT OFF, DISCONNECT, AND/OR CAPPING OF ALL UTILITIES TO THE SITE INCLUDING, BUT NOT LIMITED TO WATER SEWER FLECTRIC CABLE TELEPHONE, ETC. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL UTILITY SHUT OFFS AND LETTERS, OBTAINING ALL PERMITS TO COMPLETE ALL PHASES OF THE PROJECT.
- 9. ALL STREET APPURTENANCES (INCLUDING SIGNS, POLES, TREES & FENCING) WITHIN THE LIMITS SHOWN ARE TO BE REMOVED AND DISPOSED OFF-SITE UNLESS OTHERWISE NOTED.
- 10. EXISTING LIGHTING AND UTILITY POLE REMOVALS ARE TO BE PERFORMED BY THE APPROPRIATE UTILITY COMPANY.
- 11. ALL UNDERGROUND UTILITIES, LINES, PIPING, STRUCTURES, FOUNDATIONS, VAULTS AND BUILDING FRAGMENTS ASSOCIATED WITH FORMER
- ALL STRUCTURES (CURBS, SIDEWALKS, PATIO, RETAINING WALL, FENCES, ASPHALT, CONCRETE, ETC.) WITHIN THE PROJECT'S BOUNDARY SHALL BE REMOVED AND DISPOSED OFF-SITE AT AN APPROPRIATE FACILITY.
- DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE. ALL EXCAVATED MATERIAL AND DEBRIS (SOLID WASTE) SHALL BE DISPOSED OFFSITE IN ACCORDANCE WITH ALL MUNICIPAL, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE CODES, ORDINANCES, AND LAWS.

SITE LAYOUT NOTES

- ALL SIGNAGE TO BE POSTED IN ACCORDANCE WITH THE UNITED STATES DEPARTMENT OF TRANSPORTATION-FEDERAL HIGHWAY ADMINISTRATION, "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS (MUTCD), LATEST EDITION.
- ALL STOP BARS SHALL BE 24" WIDE WHITE THERMO PLASTIC STRIPE. ALL OTHER STRIPING MAY BE EPOXY
- 3. ALL CURB AND SIDEWALKS SHALL CONFORM TO STATE AND FEDERAL BARRIER FREE DESIGN STANDARDS.
- ALL SIDEWALK RAMPS MARKED HCR TO HAVE DETECTABLE WARNING SURFACE INSTALLED IN ACCORDANCE WITH ADA REGULATIONS. ALL DETECTABLE WARNING STRIPS SHALL BE "REPLACEABLE WET-SET" OR EQUIVALENT. SURFACE MOUNT OR "STICK ON" WARNING STRIPS ARE NOT PERMITTED UNLESS NOTED OTHERWISE.
- ALL PROPOSED ON-SITE CURBING TO BE VERTICAL CONCRETE CURBING. ALL PROPOSED CURBING WITHIN MUNICIPAL OR COUNTY RIGHT-OF-WAYS TO BE VERTICAL CONCRETE CURBING.
- ALL CONNECTIONS WITH EXISTING PAVEMENTS, CURBS, SIDEWALKS, ETC SHALL BE SAW CUT.
- SIDEWALK/WALKWAY RISERS MUST BE GREATER THAN 4" AND LESS THAN 8".
- THIS PROJECT HAS BEEN DESIGNED IN ACCORDANCE WITH NEW JERSEY ADMINISTRATIVE CODE, TITLE 5, CHAPTER 21, "RESIDENTIAL SITE IMPROVEMENT STANDARDS".

PROJECT INFORMATION

BLOCK 101, LOT 3 14 EAST GARFIELD AVENUE BOROUGH OF ATLANTIC HIGHLANDS. MONMOUTH COUNTY, NJ

MASONIC HALL

152 MAPLE AVENUE RED BANK, NJ 07701-1716

KALIAN MANAGEMENT LLC 2 HENESSEY BOULEVARD, SUITE 1 ATLANTIC HIGHLANDS. NJ 07716

APPLICANT'S PROFESSIONALS

RICK BRODSKI, ESQ.

INSITE SURVEYING, LLC

1955 ROUTE 34. SUITE 1A

WALL, NJ 07719

ANSELL GRIMM & AARON. PC 1500 LAWRENCE AVENUE OCEAN, NJ 07712



NJ ONE CALL.....800-272-1000

TEMP. SURVEY MARKINGS



1955 ROUTE 34. SUITE 1A. WALL. NJ 07719 732-531-7100 (Ph) 732-531-7344 (Fax) InSite@InSiteEng.net www.InSiteEng.net

CERTIFICATE OF AUTHORIZATION: 24GA28083200

COLORADO, & DISTRICT OF COLUMBIA

LICENSED IN: NEW JERSEY, NEW YORK, PENNSYLVANIA DELAWARE, CONNECTICUT, NORTH CAROLINA

NUTION: IF THIS DOCUMENT DOES NOT CONTAIN THE SIGNATUR AND RAISED SEAL OF THE PROFESSIONAL, IT IS NOT AN ORIGIN AND MAY HAVE BEEN ALTERED

> NJPE 43118 NJPP 5726 PAPE 61968 DEPE 3813 NYPE 802295 CTPE 23291 NCPE 33336 DCPE 900682 COPE 36605

REVISIONS

05/10/24 REV PER COMPLETENESS COMMENTS 04/22/24 REV PER INCOMPLETENESS COMMENTS 12/18/23 INITIAL RELEASE SCALE: N/A DATE: 12/18/23 DRAWN BY: JAR

JOB #: 23-756-12 CHECKED BY: **JLF** CAD ID: 23-756-12r3 NOT FOR CONSTRUCTION

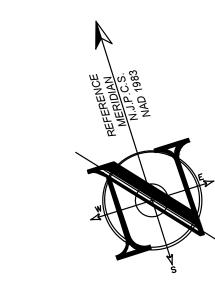
FOR CONSTRUCTION

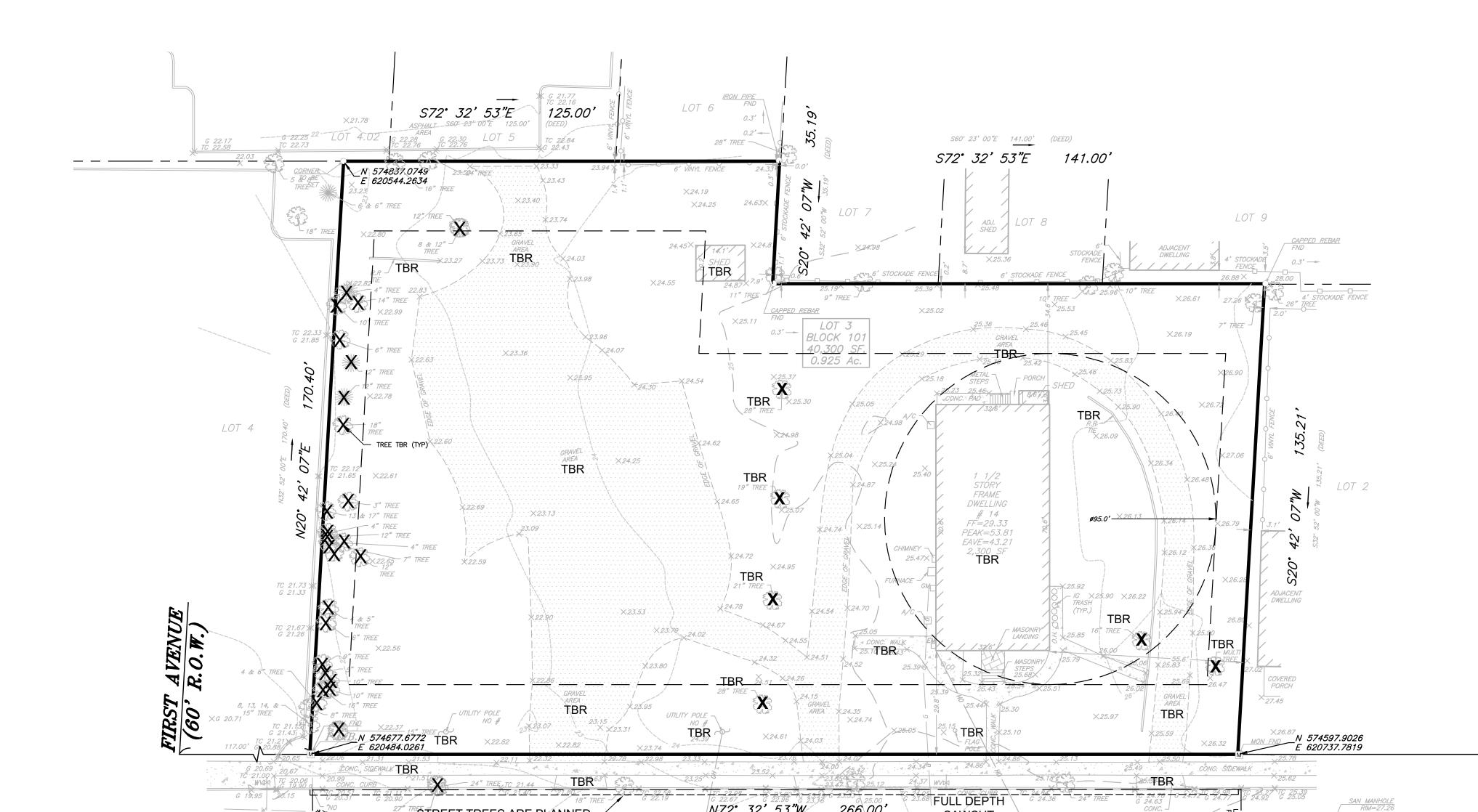
PRELIMINARY & FINAL

PLAN INFORMATION

MAJOR SUBDIVISION

PLAN NOTES





EAST GARFIELD AVENUE (50' R.O.W.)

SCALE : 1" = 20'

LEGEND **EXISTING** PROPOSED CONTOUR LINE SPOT ELEVATION INLET STORM UTILITY POLE HYDRANT SIGN POST FENCE LIGHT FIXTURE TEST PIT LOCATION GRADE FLOW ARROW **-**

PROJECT INFORMATION

14 EAST GARFIELD AVENUE

OJECT LOCATION:

BLOCK 101, LOT 3 *14 EAST GARFIELD AVENUE* BOROUGH OF ATLANTIC HIGHLANDS, MONMOUTH COUNTY, NJ

MASONIC HALL 152 MAPLE AVENUE RED BANK, NJ 07701-1716

KALIAN MANAGEMENT LLC 2 HENESSEY BOULEVARD, SUITE 1 ATLANTIC HIGHLANDS, NJ 07716

APPLICANT'S PROFESSIONALS

ATTORNEY: RICK BRODSKI, ESQ. ANSELL GRIMM & AARON, PC 1500 LAWRENCE AVENUE OCEAN, NJ 07712

<u>SURVEYOR:</u> INSITE SURVEYING, LLC 1955 ROUTE 34, SUITE 1A WALL, NJ 07719



NJ ONE CALL.....800-272-1000

CERTIFICATE OF AUTHORIZATION: 24GA28083200 1955 ROUTE 34, SUITE 1A, WALL, NJ 07719 732-531-7100 (Ph) 732-531-7344 (Fax) InSite@InSiteEng.net www.InSiteEng.net

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DEPE 3813 NYPE 802295 CTPE 23291 NCPE 33336 DCPE 900682 COPE 36605 REVISIONS

NJPE 43118 NJPP 5726 PAPE 61968

Rev.# Date Comment

SCALE: 1"=20' DESIGNED BY: SGM DATE: 12/18/23 DRAWN BY: JAR JOB #: **23-756-12** CHECKED BY: **JLF**

CAD ID: 23-756-12r3 NOT FOR CONSTRUCTION APPROVED BY:

FOR CONSTRUCTION PLAN INFORMATION

PRELIMINARY & FINAL MAJOR SUBDIVISION

SHEET TITLE: EXISTING CONDITIONS & SITE PREPARATION PLAN

LOCATION MAP

Scale: 1"=1000'

RED BANK, NJ 07701-1716 KALIAN MANAGEMENT LLC

2 HENESSEY BOULEVARD, SUITE 1 ATLANTIC HIGHLANDS, NJ 07716

PROJECT INFORMATION

14 EAST

GARFIELD

AVENUE

BLOCK 101, LOT 3

14 EAST GARFIELD AVENUE

BOROUGH OF ATLANTIC HIGHLANDS,

MASONIC HALL

152 MAPLE AVENUE

MONMOUTH COUNTY, NJ

APPLICANT'S PROFESSIONALS ATTORNEY: RICK BRODSKI, ESQ. ANSELL GRIMM & AARON, PC 1500 LAWRENCE AVENUE OCEAN, NJ 07712

SURVEYOR: INSITE SURVEYING, LLC 1955 ROUTE 34, SUITE 1A WALL, NJ 07719

OJECT LOCATION:

NJ PROFESSIONAL LAND SURVEYOR #GS43362

NJ ONE CALL....800-272-1000

CERTIFICATE OF AUTHORIZATION: 24GA28083200 1955 ROUTE 34, SUITE 1A, WALL, NJ 07719 732-531-7100 (Ph) 732-531-7344 (Fax) InSite@InSiteEng.net www.InSiteEng.net

LICENSED IN: NEW JERSEY, NEW YORK, PENNSYLVANIA DELAWARE, CONNECTICUT, NORTH CAROLINA COLORADO, & DISTRICT OF COLUMBIA

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REVISIONS

DESIGNED BY: SGM

SCALE: 1"=20' DATE: 12/18/23 DRAWN BY: JAR JOB #: **23-756-12** CHECKED BY: **JLF** CAD ID: 23-756-12r3

NOT FOR CONSTRUCTION APPROVED BY

FOR CONSTRUCTION PLAN INFORMATION

RAWING TITLE:

PRELIMINARY & FINAL MAJOR SUBDIVISION

SUBDIVISION PLAT

C300

DATE

DATE

LOT 4.02 S60° 23' 00"E 141.00' (DEED) =6' VINYL FENCE (TYP) — S72° 32' 53"E S72° 32' 53"E 28.67 LOT 9 20' REAR YARD SETBACK 20' REAR YARD SETBACK S72° 32' 53"E 56.00' S72° 32' <u>53"E</u> 59.67' S72° 32' 53"E 4' STOCKADE FENCE 25.33' 20' REAR YARD SETBACK REAR YARD SETBACKO.300 <u>20' REAR YARD SETBACK</u> 7,537 SF 0.17 AC 7,992 SF 0.18 AC 8,365 SF 0.19 AC DWELLING PEAK=53.81 EAVE=43.21 2,300 SF ø37.1' ø35.0'─ 20' FRONT YARD SETBACK 20' FRONT YARD SETBACK N72° 32' 53"W N72° 32' 53"W 56.00 N72° 32' 53"W N72° 32' 53"W CONC. SIDEWALK CONC. SIDEWALK N72° 32' 53"W N60° 23' 00"W 266.00' (DEED) EAST GARFIELD AVENUE (50' R.O.W.)

SCALE: 1" = 20'

(a) THIS PERTAINS TO AN EXISTING STRUCTURE WHICH WAS NOT MADE AVAILABLE TO THIS OFFICE

	LEGEND	
EXISTING		<u>PROPOSED</u>
	BOUNDARY LINE	<u> </u>
56	CONTOUR LINE	
+ 46.80	SPOT ELEVATION	+46.80
kuumuumumin 2	BUILDING	
	WALL	
——————————————————————————————————————	GAS	———— GAS ————
——————————————————————————————————————	WATER	———— WTR ————
	INLET	
	STORM	
	SANITARY MAIN	S
SANO_CO	SANITARY LATERAL	SANCO
——————————————————————————————————————	OVERHEAD WIRE	O/H
——— E ———— E ———	ELECTRIC	E
	TELEPHONE	
ę	UTILITY POLE	•
440	HYDRANT	>
0	SIGN POST	
x x	FENCE	x x
\$	LIGHT FIXTURE	←
	TEST PIT LOCATION	

GRADE FLOW ARROW

-W-**-**

SWALE CENTER LINE -------

I HEREBY CERTIFY TO BE THE OWNER OF THE LANDS AS DESCRIBED ON THIS PLAN, AND DO HEREBY CONSENT TO THE FILING THEREOF WITH THE APPROPRIATE

OWNER SIGNATURE MASONIC HALL 152 MAPLE AVENUE RED BANK, NJ 07701-1716

NOTARY PUBLIC OF NEW JERSEY SWORN TO AND SUBSCRIBED BEFORE ME THIS _____ DAY OF___ 2023. MY COMMISSION EXPIRES_

MUNICIPAL CLERK OR BOARD SECRETARY

IS NOT PROPERLY FILED WITH SAID CLERK ON OR BEFORE ____

THIS PLAN MUST BE FILED IN THE OFFICE OF THE CLERK OR MONMOUTH COUNTY ON

I HAVE CAREFULLY EXAMINED THIS MAP AND TO THE BEST OF MY KNOWLEDGE AND BELIEF FIND IT CONFORMS WITH THE PROVISIONS OF "THE MAP FILING LAW", RESOLUTION OF APPROVAL AND APPLICABLE MUNICIPAL ORDINANCES AND REQUIREMENTS.

I HEREBY CERTIFY THAT THIS MAP COMPLIES WITH THE PROVISIONS OF P.L. 2011 c. 217

IN THE OFFICE OF THE COUNTY CLERK OF MONMOUTH COUNTY BY THE BOROUGH OF

"THE MAP FILING LAW", AND FURTHER CERTIFY THAT IT HAS BEEN APPROVED FOR FILING

ATLANTIC HIGHLANDS PLANNING BOARD. THIS CERTIFICATION SHALL EXPIRE IF THIS MAP

MUNICIPAL ENGINEER

AS MAP NO.:_____ FILED ON:

, WHICH IS NINETY (95) DAYS AFTER APPROVAL AS A MAJOR SUBDIVISION BY THE BOROUGH OF ATLANTIC HIGHLANDS PLANNING BOARD.

THE MONUMENTS SHOWN ON THIS MAP SHALL BE SET WITHIN THE TIME LIMIT PROVIDED IN THE "MUNICIPAL LAND USE LAW" P.L. 1975 C.291 (C.40:55D-1 ET SEQ.) OR

> HIGHLANDS PLANNING BOARD ON ___ **BOARD CHAIRMAN** DATE

CLASSIFIED AND APPROVED AS A MAJOR SUBDIVISION BY THE BOROUGH OF ATLANTIC

BOARD SECRETARY BOARD ENGINEER

MUNICIPAL CLERK

LOCAL ORDINANCE.

			Ž	ZONING COI	MPLIANCE CHART							
			R-1 (SINGLE	E-FAMILY RE	SIDENTIAL) ZONE (§	150-30)						
			PE	RMITTED U	SE : SINGLE FAMILY							
ORD.SECTION STANDARD	REQUIRED	EXISTING LOT 3	NEW LOT 3.01	COMPLIES	NEW LOT 3.02	COMPLIES	NEW LOT 3.03	COMPLIES	NEW LOT 3.04	COMPLIES	NEW LOT 3.05	COMPLIE
SCHED 150-30 MIN. LOT AREA (SF)	7,500 (0.17 AC)	40,300 (0.93 AC)	7,537 (0.17 AC)	YES	7,560 (0.17 AC)	YES	7,992 (0.18 AC)	YES	8,847 (0.20 AC)	YES	8,365 (0.19 AC)	YES
SCHED 150-30 MIN. LOT FRONTAGE & WIDTH (FT)	75	266	52.0 (V)	NO (V)	56.0 (V)	NO (V)	52.0 (V)	NO (V)	52.0 (V)	NO (V)	54.0	NO
PRINCIPAL BUILDING												
SCHED 150-30 MIN. FRONT YARD SETBACK (FT)	20	29.8	30	YES	30	YES	30	YES	30	YES	30	YES
SCHED 150-30 MIN. SIDE YARD SETBACK (FT)	10	55.6	7 (V)	NO (V)	10	YES	7 (V)	NO (V)	7 (V)	NO (V)	7 (V)	NO (
SCHED 150-30 MIN. TOTAL SIDE YARD SETBACK (FT)	20	233.1	17 (V)	NO (V)	20	YES	17 (V)	NO (V)	17 (V)	NO (V)	17 (V)	
SCHED 150-30 MIN. REAR YARD SETBACK (FT)	20	34.6	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES
SCHED 150-30 MAX. BUILDING HEIGHT (FT)	35	24.48	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES
SCHED 150-30 MAX. BUILDING HEIGHT (STORIES)	2 1/2	1 1/2	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES
ACCESSORY BUILDING												
SCHED 150-30 MIN. SIDE YARD SETBACK (FT)	5	7.9	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES
SCHED 150-30 MIN. REAR YARD SETBACK (FT)	5	24.1	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES
SCHED 150-30 MAX. BUILDING HEIGHT (FT)	16	N/S	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES
SCHED 150-30 MAX. BUILDING HEIGHT (STORIES)	1	1	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES
SCHED 150-30 LOT SHAPE MIN. DIAMETER (FT)	50	95.0	37.1 (V)	NO (V)	36.0 (V)	NO (V)	35.0 (V) NO (V)	35.0 (V)	NO (V)	34.8 (\	/) NO (
LOT COVERAGE							·				·	
SCHED 150-30 MAX. IMPERVIOUS SURFACE (%)	50	35.0	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES
SCHED 150-30 MAX. BUILDING COVERAGE (%)	25	6.1	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES
SCHED 150-30 MAX. USABLE FLOOR AREA RATIO	0.4	(a)	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES
SCHED 150-30 MINIMUM GROSS FLOOR AREA (SF)												
1-STORY BUILDING	1,040	N/A	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES
MORE THAN 1 STORY (1ST FLOOR)	900	(a)	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES
MORE THAN 1 STORY (TOTAL FLOORS)	1,500	(a)	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES	TO COMPLY	YES
150-85.0(1)(A) MIN. STREET TREES	1 PER 50' FRONTAGE	4 (N	J) 5 (X)	YES (X)								
	266 / 50 = 5 REQ'D		(3 EXISTING, 2 PROPOSED)									

(E) EXISTING VARIANCE (V) PROPOSED VARIANCE (X) VARIANCE / NON-CONFORMITY ELIMINATED N/S - NOT SPECIFIED (W) PROPOSED WAIVER

(a) THIS PERTAINS TO AN EXISTING STRUCTURE WHICH WAS NOT MADE AVAILABLE TO THIS OFFICE

	PARKING, DRIVEWAY & LOADING COMF	PLIANCE CHART		
ORD.SECTION	STANDARD	REQUIRED	PROPOSED	COMPLIES
§ 345-42.D.2	STALL SIZE (FT)	9 x 18	9 x 18	YES
§ 150-89	NUMBER OF PARKING SPACES SINGLE-FAMILY DETACHED, 4 BEDROOMS OR MORE: 3 SPACE PER UNIT	5 x 3 = 15	YES	
RSIS TABLE 4.4	NUMBER OF PARKING SPACES SINGLE-FAMILY DETACHED, 4 BEDROOM: 2.5 PER DWELLING UNIT	5 x 2.5 = 12.5 = 12	2 CAR GARAGE + 2 DRIVEWAY SPACES = 3.5 SPACES 5 x 3.5 = 17.5	YES
150-89.D.1	MIN. DRIVEWAY WIDTH (FT)	12	20	YES
150-89.D.3	MAX. DRIVEWAY WIDTH (FT)	30	20	YES
150-72.A	MAX. GARAGE SIZE (FT)	12 (W) x 22 (L) x 16 (H)	TO COMPLY	YES
150-89.B.1.f	MIN. GARAGE FRONT YARD SETBACK (FT)	30	30	YES
150-54.F	MIN. DRIVEWAY/WALKWAY SIDE & REAR YARD SETBACK (FT)	5	TO COMPLY	YES
(N) EXISTING I (E) EXISTING V (V) PROPOSEI		N/A - NOT APPLIC N/S - NOT SPECIF		

NOTE:

1. BUILDING FOOTPRINTS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY AND FINAL DESIGN WILL BE PROVIDED DURING THE ZONING APPLICATION AND PLOT PLAN PROCESS.

SCALE : 1" = 20'

	LEGEND	
EXISTING		PROPOSED
	BOUNDARY LINE	>>
58	CONTOUR LINE	
+ 46.80	SPOT ELEVATION	+46.80
kuuuuuuuuuu	BUILDING	
	WALL	
——— G ———— G ———	GAS	———— GAS ————
W W	WATER	WTR
	INLET	
	STORM	
	SANITARY MAIN	
sano_co	SANITARY LATERAL	SAN
——————————————————————————————————————	OVERHEAD WIRE	O/H
———— E ———————————————————————————————	ELECTRIC	—— Е ——
	TELEPHONE	TEL
P	UTILITY POLE	•
	HYDRANT	
	SIGN POST	
x x	FENCE	x x
文	LIGHT FIXTURE	••
TP-1	TEST PIT LOCATION	₽ -1

GRADE FLOW ARROW

─────

SWALE CENTER LINE ------

SEE SHEET C101 FOR PLAN NOTES

S72° 32' 53"E LOT 4.02 S60° 23' 00"E 141.00' (DEED) S72° 32′ 53″E S72° 32' 53"E 28.67 20' REAR YARD SETBACK 20' REAR YARD SETBACK S72° 32' 53"E NEW LOT 3.01 7,537 SF 0.17 AC NEW LOT 3.03 7,992 SF 0.18 AC NEW LOT 3.04 8,847 SF 0.20 AC NEW LOT 3.02 7,560 SF 0.17 AC NEW LOT 3.05 8,365 SF 0.19 AC STORY FRAME DWELLING 2-STORY 2-STORY 2-STORY 2-STORY 2-STORY SINGLE FAMILY SINGLE FAMILY SINGLE FAMILY SINGLE FAMILY SINGLE FAMILY DWELLING DWELLING DWELLING DWELLING DWELLING 35' x 37' 35' x 37' 30' x 47' 34' x 44' 34' x 40' ±1,295 SF ±1,295 SF ±1,410 SF ±1,496 SF ±1,360 SF 20' FRONT YARD SETBACK 20' FRONT YARD SETBACK 20' FRONT YARD SETBACK N72° 32' 53"W 54.00' N72° 32' 53"W 52.00' N72° 32′ 53″W 52.00′ N72° 32' 53"W 52.00 N72° 32′ 53″W 56.00′ 4' WIDE CONC. SIDEWALK CONC. APRON CONC. APRON O MATCH EXISTING SIDEWALK AT NEAREST JOINT 41.4' 1-1/2" REVEAL TEE CURB (TYP.) - MATCH EXISTING SIDEWALK AT NEAREST JOINT N72' 32' 53"W 266.00' ... 28" TREE ... 166.00' (DEED) MATCH EXISTING CURB — AT NEAREST JOINT MATCH EXISTING CURB AT NEAREST JOINT

UTILITY POLE EAST GARFIELD AVENUE (50' R.O.W.)

PROJECT INFORMATION

14 EAST GARFIELD AVENUE

ROJECT LOCATION:

BLOCK 101, LOT 3 14 EAST GARFIELD AVENUE BOROUGH OF ATLANTIC HIGHLANDS, MONMOUTH COUNTY, NJ

MASONIC HALL 152 MAPLE AVENUE RED BANK, NJ 07701-1716

KALIAN MANAGEMENT LLC 2 HENESSEY BOULEVARD, SUITE 1 ATLANTIC HIGHLANDS, NJ 07716

APPLICANT'S PROFESSIONALS

ATTORNEY: RICK BRODSKI, ESQ. ANSELL GRIMM & AARON, PC 1500 LAWRENCE AVENUE OCEAN, NJ 07712

SURVEYOR: INSITE SURVEYING, LLC 1955 ROUTE 34, SUITE 1A WALL, NJ 07719



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CERTIFICATE OF AUTHORIZATION: 24GA28083200 1955 ROUTE 34, SUITE 1A, WALL, NJ 07719 732-531-7100 (Ph) 732-531-7344 (Fax) InSite@InSiteEng.net www.InSiteEng.net

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REVISIONS

Rev.# Date Comment

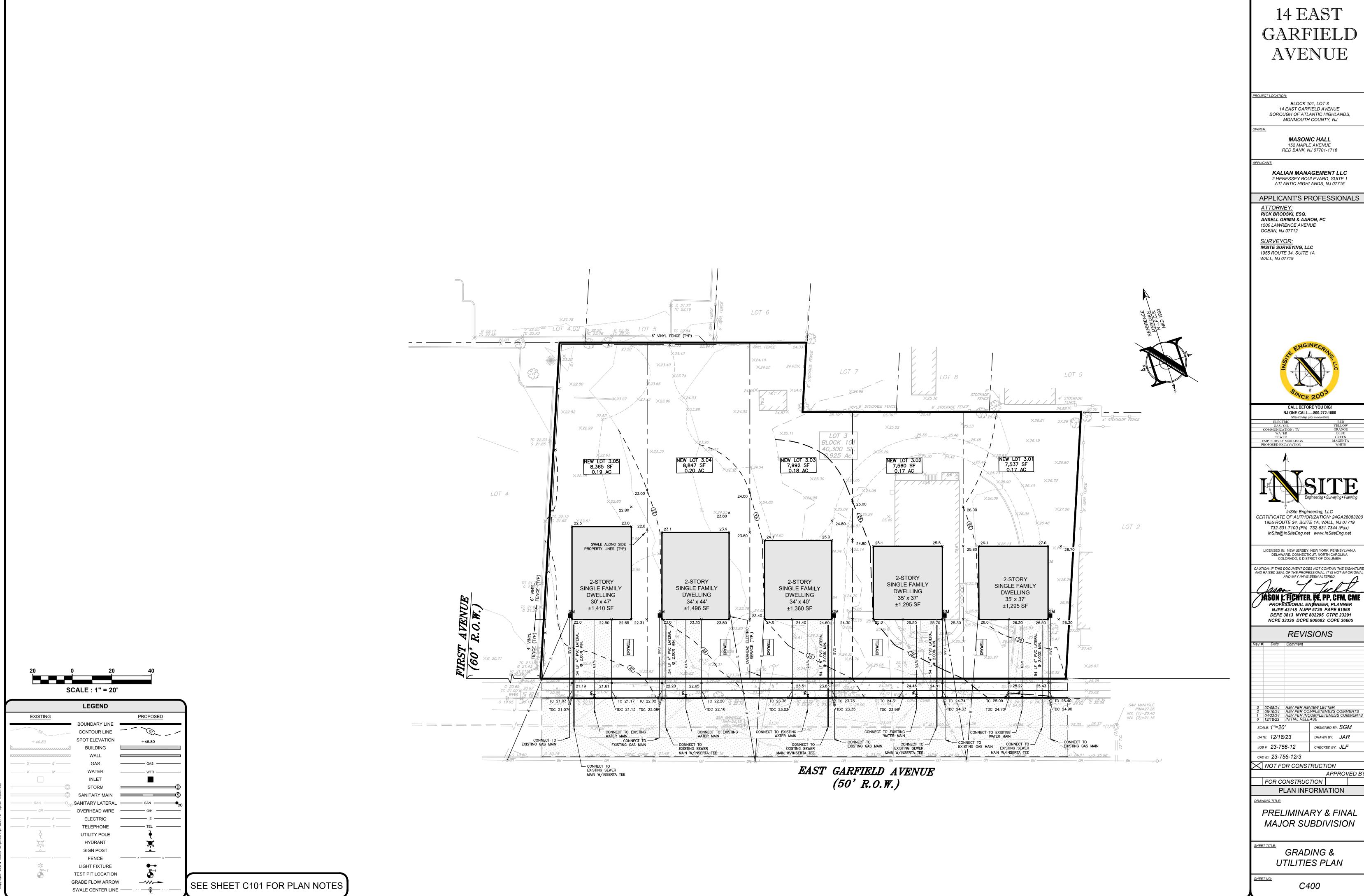
SCALE: 1"=20' DESIGNED BY: SGM DATE: 12/18/23 DRAWN BY: JAR JOB #: 23-756-12 CHECKED BY: **JLF**

CAD ID: 23-756-12r3 NOT FOR CONSTRUCTION APPROVED BY:

> FOR CONSTRUCTION PLAN INFORMATION

PRELIMINARY & FINAL MAJOR SUBDIVISION

SITE LAYOUT PLAN



PROJECT INFORMATION

14 EAST GARFIELD AVENUE

BLOCK 101, LOT 3 14 EAST GARFIELD AVENUE BOROUGH OF ATLANTIC HIGHLANDS, MONMOUTH COUNTY, NJ

MASONIC HALL

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LICENSED IN: NEW JERSEY, NEW YORK, PENNSYLVANIA DELAWARE, CONNECTICUT, NORTH CAROLINA COLORADO, & DISTRICT OF COLUMBIA

PROFESSIONAL ENGINEER, PLANNER NJPE 43118 NJPP 5726 PAPE 61968

DEPE 3813 NYPE 802295 CTPE 23291 NCPE 33336 DCPE 900682 COPE 36605

REVISIONS Rev.# Date Comment

SCALE: 1"=20' DESIGNED BY: SGM DATE: 12/18/23 DRAWN BY: JAR JOB #: 23-756-12 CHECKED BY: **JLF**

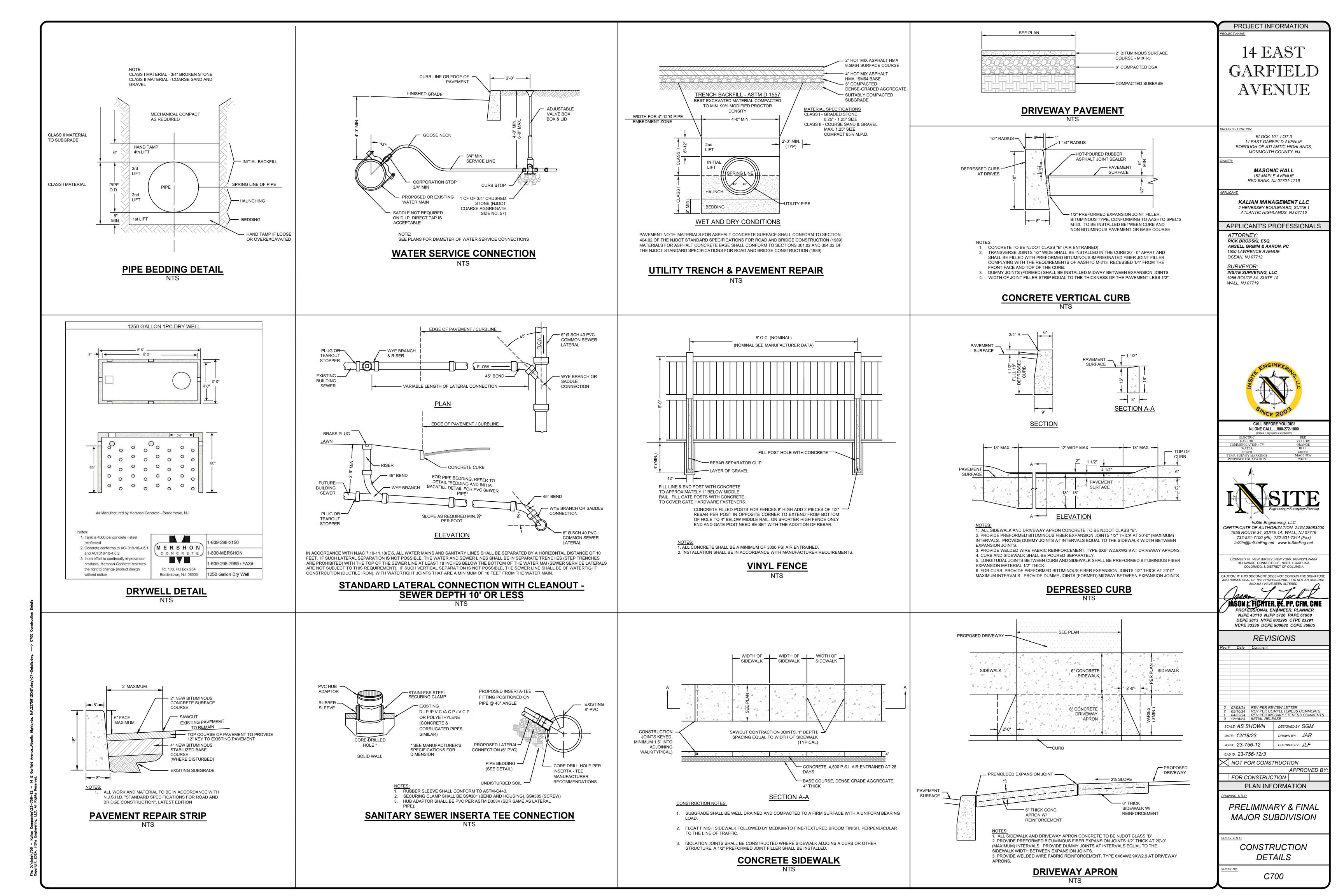
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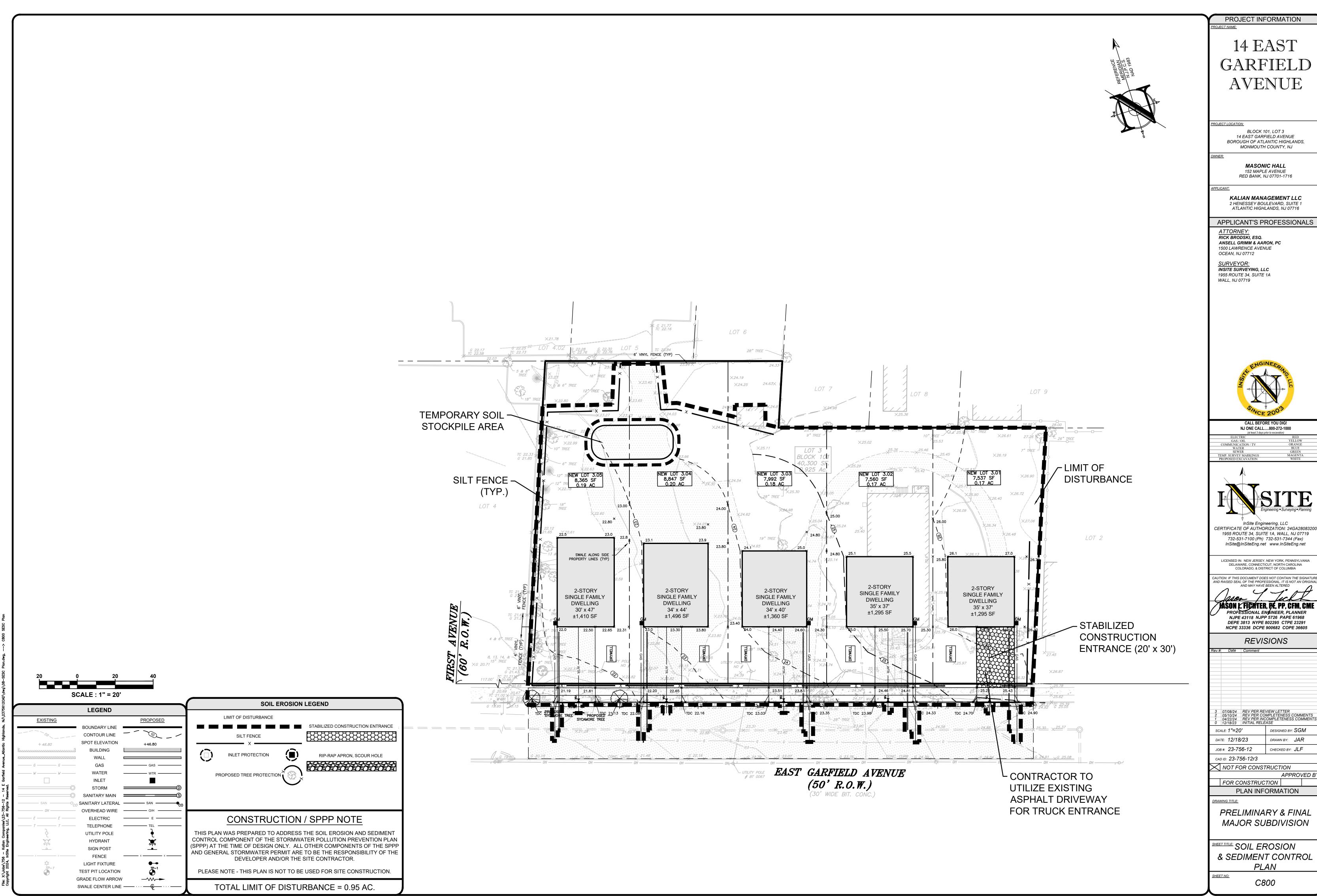
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PLAN INFORMATION

PRELIMINARY & FINAL MAJOR SUBDIVISION

GRADING & UTILITIES PLAN





GARFIELD

LICENSED IN: NEW JERSEY, NEW YORK, PENNSYLVANIA

AUTION: IF THIS DOCUMENT DOES NOT CONTAIN THE SIGNATURE AND RAISED SEAL OF THE PROFESSIONAL, IT IS NOT AN ORIGINAL

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& SEDIMENT CONTROL

- 2. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED. ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF REVISED SOIL
- EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT FOR RE-CERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT STATE SOIL EROSION AND SEDIMENT CONTROL STANDARDS 4. N.J.S.A 4:24-39 ET. SEQ. REQUIRES THAT NO CERTIFICATES OF OCCUPANCY BE ISSUED BEFORE THE DISTRICT DETERMINES THAT A
- PROJECT OR PORTION THEREOF IS IN FULL COMPLIANCE WITH THE CERTIFIED PLAN AND STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY AND A REPORT OF COMPLIANCE HAS BEEN ISSUED. UPON WRITTEN REQUEST FROM THE APPLICANT, THE DISTRICT MAY ISSUE A REPORT OF COMPLIANCE WITH CONDITIONS ON A LOT-BY-LOT OR SECTION-BY-SECTION BASIS, PROVIDED THAT THE PROJECT OR PORTION THEREOF IS IN SATISFACTORY COMPLIANCE WITH THE SEQUENCE OF DEVELOPMENT AND TEMPORARY MEASURES FOR SOIL EROSION AND SEDIMENT CONTROL HAVE BEEN IMPLEMENTED, INCLUDING PROVISIONS FOR STABILIZATION AND SITE WORK.
- ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN SIXTY (60) DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF 2 TO 2 ½ TONS PER ACRE, ACCORDING TO STATE STANDARD FOR STABILIZATION WITH MUI CH ONLY
- IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STOCKPILES, STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AND A MULCH ANCHOR, IN ACCORDANCE WITH STATE STANDARDS.
- A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS TO STABILIZE STREETS, ROADS, DRIVEWAYS, AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN FIFTEEN (15) DAYS OF THE PREI IMINARY GRADING
- 8. THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A PAD OF CLEAN CRUSHED STONE AT POINTS WHERE TRAFFIC WILL BE ACCESSING THE CONSTRUCTION SITE. AFTER INTERIOR ROADWAYS ARE PAVED, INDIVIDUAL LOTS REQUIRE A STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF ONE INCH TO TWO INCH (1" - 2") STONE FOR A MINIMUM LENGTH OF TEN FEET (10') EQUAL TO THE LOT ENTRANCE WIDTH. ALL OTHER ACCESS POINTS SHALL BE BLOCKED OFF.
- 9. ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHT-OF-WAYS WILL BE REMOVED IMMEDIATELY 10. PERMANENT VEGETATION IS TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. 11. AT THE TIME THAT 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 IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND
- PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED. 12. IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE ULTIMATELY PLACED OR BURIED WITH LIMESTONE APPLIED AT THE RATE OF 10 TONS/ACRE, (OR 450 LBS/1,000 SQ FT OF SURFACE AREA) AND COVERED WITH A MINIMUM OF 12" OF SETTLED SOIL WITH A PH OF 5 OR MORE, OR 24"

COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF

- WHERE TREES OR SHRUBS ARE TO BE PLANTED. 13. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
- 14. UNFILTERED DEWATERING IS NOT PERMITTED. NECESSARY PRECAUTIONS MUST BE TAKEN DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER. ANY DEWATERING METHODS USED MUST BE IN ACCORDANCE WITH THE STANDARD FOR DEWATERING. 15. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET, TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED AS REQUIRED BY THE STANDARD FOR DUST CONTROL.
- 16. STOCKPILE AND STAGING LOCATIONS ESTABLISHED IN THE FIELD SHALL BE PLACED WITHIN THE LIMIT 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. 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 DISTURBED.
- ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE #6. 18. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT

TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

1. SITE PREPARATION

- A GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL FOUIPMENT FOR SEEDBED PREPARATION. SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING, PG. 19-1.
- B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS. SEE STANDARDS 11 THROUGH 42
- C. IMMEDIATELY PRIOR TO SEEDING, THE SURFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).

2. SEEDBED PREPARATION

- A. APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE. LIMING RATES SHALL BE ESTABLISHED VIA SOIL TESTING. CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND
- B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR, CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED.
- C. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED IN
- D. SOILS HIGH IN SULFIDES OR HAVING A PH OF 4 OR LESS REFER TO STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, PG. 1-1.

- A TEMPORARY VEGETATIVE SEEDING COVER SHALL CONSIST OF PERENNIAL RYEGRASS APPLIED UNIFORMLY AT A RATE OF 1 POUND PER 1,000 SF (100 LBS/AC) WITH AN OPTIMUM SEED DEPTH OF 0.5" (TWICE THE DEPTH IF SANDY SOILS), IN ACCORDANCE WITH TABLE 7-2 PAGE 7-3
- *SEEDING DATES: 2/15-5/1 AND 8/15-10/15
- B. CONVENTIONAL SEEDING, APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED. HYDROSEEDED OR CULTIPACKED SEEDINGS. SEED SHALL BE INCORPORATED INTO THE SOIL, TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE TEXTURED SOIL
- C. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED. WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THI PREPARED SEEDBED, MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED, SHORT FIBERED MULCH MAY BE APPLIED. WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION IV MULCHING) HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. POOR SEED TO SOIL CONTACT OCCURS REDUCING SEED GERMINATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT TO TRAVERSE OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC.
- D. AFTER SEEDING. FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT. RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. THIS IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED.

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

- A STRAW OR HAY UNNROTTED SMALL GRAIN STRAW HAY FREE OF SEEDS APPLIED AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF
- APPLICATION, SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 95% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.

ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS. DEPENDING UPON THE SIZE OF THE AREA. STEEPNESS OF SLOPES, AND COSTS

- 1. PEG AND TWINE. DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRIS-CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
- 2. MULCH NETTINGS. STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTINGS TO THE SOIL SURFACE. USE A DEGRADABLE
- 3. CRIMPER (MULCH ANCHORING TOOL), A TRACTOR-DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR WHICH MUST OPERATE ON THE CONTOUR OF SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED.
- 4. LIQUID MULCH-BINDERS. MAY BE USED TO ANCHOR HAY OR STRAW MULCH.
- a. APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND MAY CATCH THE MULCH, IN VALLEYS, AND AT CRESTS OF BANKS. THE REMAINDER OF THE AREA SHOULD BE UNIFORM IN APPEARANCE. b. USE ONE OF THE FOLLOWING
- (1) ORGANIC AND VEGETABLE BASED BINDERS NATURALLY OCCURRING, POWDER BASED, HYDROPHILIC MATERIALS WHEN MIXED WITH WATER FORMULATES A GEL AND WHEN APPLIED TO MULCH UNDER SATISFACTORY CURING CONDITIONS WILL FORM MEMBRANED NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYTOTOXIC EFFECT OR IMPEDE GROWTH OF TURFGRASS. USE AT RATES AND WEATHER CONDITIONS AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH MATERIALS, MANY NEW PRODUCTS ARE AVAILABLE, SOME OF WHICH MAY NEED FURTHER EVALUATION FOR USE
- (2) SYNTHETIC BINDERS HIGH POLYMER SYNTHETIC EMULSION, MISCIBLE WITH WATER WHEN DILUTED AND FOLLOWING APPLICATION TO MULCH, DRYING AND CURING SHALL NO LONGER BE SOLUBLE OR DISPERSIBLE IN WATER. IT SHALL BE APPLIED AT RATES RECOMMENDED BY THE MANUFACTURER AND REMAIN TACKY UNTIL
- NOTE: ALL NAMES GIVE ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT CONSTITUTE A COMMENDATION OF THESE PRODUCTS TO THE EXCLUSION OF OTHER PRODUCTS
- B WOOD-FIBER OR PAPER-FIBER MULCH, SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS. USED AT THE RATE OF 1,500 PONDS PER ACRE (OR AS RECOMMENDED BY THE PROJECT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. THIS MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.
- C. PELLETIZED MULCH, COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS AND COLORING AGENTS, THE DRY PELLETS, WHEN APPLIED TO A SEEDED AREA AND WATERED, FORMA MULICH MAT, PELLETIZED MULICH SHALL BE APPLIES IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60-75 LBS./1,000 SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEE 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.

PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

- A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARD
- B. IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SUBSOIL SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH THE STANDARD FOR LAND GRADING.

WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH THE STANDARD FOR TOPSOILING.

- C. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES. TOPSOIL SHALL BE AMENDED
- D. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE-STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.

- A. UNIFORMLY APPLY GROUND LIMESTONE AND FERTILIZER TO TOPSOIL WHICH HAS BEEN SPREAD AND FIRMED. ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES (HTTP://NJAES.RUTGERS.EDU/COUNTY/). FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE AND INCORPORATED INTO THE SURFACE 4 INCHES. IF FERTILIZER IS NOT INCORPORATED. APPLY ONE-HALF THE RATE DESCRIBED ABOVE DURING SEEDBED PREPARATION AND REPEAT ANOTHER ONE-HALF RATE APPLICATION OF THE SAME FERTILIZER WITHIN 3 TO 5
- B. WORK LIME AND FERTILIZER INTO THE TOPSOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC. SPRING-TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT, THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR, CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED
- C. HIGH ACID PRODUCING SOIL. SOILS HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A PH OF 5 OR MORE BEFORE INITIATING SEEDBED PREPARATION. SEE STANDARD FOR MANAGEMENT OF HIGH ACID-PRODUCING SOILS FOR SPECIFIC REQUIREMENTS.

3. SEEDING

(ZONE 6B)

A SFFD GERMINATION SHALL HAVE BEEN TESTED WITHIN 12 MONTHS OF THE PLANTING DATE. NO SEED SHALL BE ACCEPTED WITH A GERMINATION TEST DATE MORE THAN 12 MONTHS OLD UNLESS RETESTED

SEED MIXTURE #13 FOR LAWN AREAS	PLANTING RATE LBS/1,000 (LBS/ACRE
HARD FESCUE AND/OR CHEWING FESCUE AND/OR STRONG CREEPING RED FESCUE PERENNIAL RYEGRASS (BLEND)	4 (175) 1 (45) 1 (45)
*ACCEPTABLE SEEDING DATES: 3/1-4/30 AND 5/1-8/14** *OPTIMAL SEEDING DATES: 8/15-10/15 **SUMMER SEEDING SHALL ONLY BE CONDUCTED WHEN SITE IS IRRIGATED	

SEED MIXTURE #7 FOR BASIN, SIDE SLOPES, AND SWALES

STRONG CREEPING RED FESCUE KENTUCKY BLUEGRASS 1 (50) 0.5 (20) PERENNIAL RYEGRASS OR REDTOP PLUS WHITE CLOVER

- *ACCEPTABLE SEEDING DATES: 3/1-4/30 AND 5/1-8/14** *OPTIMAL SEEDING DATES: 8/15-10/15 *SUMMER SEEDING SHALL ONLY BE CONDUCTED WHEN SITE IS IRRIGATED
- SEEDING RATES SPECIFIED ARE REQUIRED WHEN A REPORT OF COMPLIANCE IS REQUESTED PRIOR TO ACTUAL ESTABLISHMENT OF PERMANENT VEGETATION. UP TO 50% REDUCTION IN RATES MAY BE USED WHEN PERMANENT VEGETATION IS ESTABLISHED PRIOR TO A REPORT OF COMPLIANCE INSPECTION, THESE RATES APPLY TO ALL METHODS OF SEEDING, ESTABLISHING PERMANENT VEGETATION MEANS 80% VEGETATIVE COVERAGE WITH THE SPECIFIED SEED MIXTURE FOR THE SEEDED AREA AND MOWED ONCE.

0.25 (10)

- I. WARM-SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT HIGH TEMPERATURES, GENERALLY 850 F AND ABOVE. SEE TABLE 4-3 MIXTURES 1 TO 7. PLANTING RATES FOR WARM-SEASON GRASSES SHALL BE THE AMOUNT OF PURE LIVE SEED (PLS) AS DETERMINED BY GERMINATION TESTING RESULTS.
- COOL-SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT TEMPERATURES BELOW 8 MANY GRASSES BECOME ACTIVE AT 650F. SEE TABLE 4-3, MIXTURES 8-20. ADJUSTMENT OF PLANTING RATE COMPENSATE FOR THE AMOUNT OF PLS IS NOT
- B. CONVENTIONAL SEEDING IS PERFORMED BY APPLYING SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER, EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE-TEXTURED SOIL
- C. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY AND IMPROVE SEEDLING EMERGENCE. THIS IS THE PREFERRED METHOD, WHEN PERFORMED ON THE CONTOUR. SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED
- D. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK, OR TRAILER-MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT-FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4-MULCHING BELOW). HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. WHEN POOR SEED TO SOIL CONTACT OCCURS, THERE IS A REDUCED SEED GERMINATION AND GROWTH.

4. MULCHING

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

- A. STRAW OR HAY. UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, TO BE APPLIED AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1.000 SQUARE FEET). EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT). THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED.
- APPLICATION SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT AT LEAST 85% OF THE SOIL SURFACE IS COVERED FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.
- ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES,
- 1. PEG AND TWINE. DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISS-CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS
- 2. MULCH NETTINGS STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTINGS TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.
- 3. CRIMPER (MULCH ANCHORING COULTER TOOL) A TRACTOR-DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOUR OF SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER
- ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED. 4. LIQUID MULCH-BINDERS - MAY BE USED TO ANCHOR SALT HAY, HAY OR STRAW MULCH.
- a. APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND MAY CATCH THE MULCH, IN VALLEYS, AND AT CRESTS OF BANKS. THE REMAINDER OF THE AREA SHOULD BE UNIFORM IN APPEARANCE.

b. USE ONE OF THE FOLLOWING:

- (1) ORGANIC AND VEGETABLE BASED BINDERS NATURALLY OCCURRING, POWDER-BASED, HYDROPHILIC MATERIALS WHEN MIXED WITH WATER FORMULATES A GEL AND WHEN APPLIED TO MULCH UNDER SATISFACTORY CURING CONDITIONS WILL FORM MEMBRANED NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYTOTOXIC EFFECT OF 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 STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY JANUARY 2014GROWTH 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. <u>MULCH SHALL NOT BEMIXEDIN THE TANK WITH SEED</u>. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.
- C PELLETIZED MULICH-COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT. WHICH MAYECTL CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS, AND COLORING AGENTS. THE DRY PELLETS. WHEN APPLIED TO AW SEEDED AREA AND WATERED. FORM A MULCHMAT, PELLETIZED MULCH SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60-75 LBS/1,000 SQUARE FEET AND ACTIVATED WITH 0.2 TO0.4 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 TACKIFIERAGENT ARE NOT PRACTICAL OR DESIRABLE, APPLYING THE FULL 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETIZED MULCH ON THE SEEDBED IS EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO PROVIDE SOIL COVERAGE

5.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 SITES.

6.TOP DRESSING

SINCE SOIL ORGANIC MATTER CONTENT AND SLOW RELEASE NITROGEN FERTILIZER (WATER INSOLLIBLE) ARE PRESCRIBED INSECTION 2A-SEEDBED PREPARATION IN THIS STANDARD, NO FOLLOW-UP OF TOP DRESSING IS MANDATORY. AN EXCEPTION MAYBE MADE WHERE GROSS NITROGEN DEFICIENCY EXISTS IN THE SOIL TO THE EXTENT THAT TURF FAILURE MAY DEVELOP. IN THAT INSTANCE, TOP DRESS WITH 10-10-10 OR EQUIVALENT AT 300 POUNDS PER ACRE OR 7 POUNDS PER 1,000 SQUARE FEET EVERY 3 TO 5 WEEKS UNTIL THE GROSS NITROGEN DEFICIENCY IN THE TURF IS

7.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 4-3 ARE REQUIRED WHEN A REPORT OF COMPLIANCE IS REQUESTED PRIOR TO ACTUAL ESTABLISHMENT OF PERMANENT VEGETATION. UP TO 50% REDUCTION IN APPLICATION RATES MAY BE USED WHEN PERMANENT VEGETATION IS ESTABLISHED PRIOR TO REQUESTING A REPORT OF COMPLIANCE FROM THE DISTRICT. THESE RATES APPLY TO ALL METHODS OF SEEDING. ESTABLISHING PERMANENT VEGETATION MEANS 80% VEGETATIVE COVER (OF THE SEEDED SPECIES) AND MOWED ONCE. NOTE THIS DESIGNATION OF MOWED ONCE DOES NOT GUARANTEE THE PERMANENCY OF THE TURF SHOULD OTHER MAINTENANCE FACTORS BE NEGLECTED OR OTHERWISE MISMANAGED

STANDARD FOR DUST CONTROL

THE CONTROL OF DUST ON CONSTRUCTION SITES AND ROADS.

TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCED ON-SITE AND OFF-SITE DAMAGE AND HEALTH HAZARDS AND IMPROVE TRAFFIC SAFETY.

CONDITION WHERE PRACTICE APPLIES
THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON-SITE AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT. CONSULT WITH LOCAL MUNICIPAL ORDINANCES ON ANY RESTRICTION.

EDIMENTS DEPOSITED AS "DUST" ARE OFTEN FINE COLLOIDAL MATERIAL WHICH IS EXTREMELY DIFFICULT TO REMOVE FROM WATER ONCE IT BECOMES SUSPENDED. USE OF THIS STANDARD WILL HELP TO CONTROL THE GENERATION OF DUST FROM CONSTRUCTION SUITES AND SUBSEQUENT BLOWING AND DEPOSITION INTO LOCAL SURFACE WATER RESOURCES.

THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR CONTROLLING DUST:

MULCHES - SEE STANDARD OF STABILIZATION WITH MULCHES ONLY, PG 5-1

VEGETATIVE COVER - SEE STANDARD FOR: TEMPORARY VEGETATIVE COVER, PG. 7-1,

PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION, PG. 4-1, AND PERMANENT STABILIZATION WITH SOD, PG. 6-1

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

MATERIALS	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS/ACRE	
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1200	
LATEX EMULSION	12.5:1	FINE SPRAY	235	
RESIGN IN WATER	4:1	FINE SPRAY	300	
POLYACRYLAMIDE (PAM) - SPRAY ON POLYACRYLAMIDE (PAM) - DRY SPREAD	APPLY ACCORDINGLY TO MANUFACTURER'S INSTRUCTIONS. MAY ALSO BE USED AS AN ADDITIVE TO SEDIMENT BASINS TO FLOCCULATE AND PRECIPITATE SUSPENDED COLLOIDS. SEE SEDIMENT BASIN STANDARD PG. 26-1			
ACIDULATED SOY BEAM SOAP STICK	NONE	COARSE SPRAY	1200	

TILLAGE - TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE, THIS IS A TEMPORARY MEASURE WHICH SHOULD BE JSED BEFORE SOIL BLOWING STARTS. BEING PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACES ABOUT 12 INCHES APART AND SPRING-TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED

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 BLOWING.

<u>CALCIUM CHLORIDE</u> - SHALL BE IN THE FORM OF LOOSE, DRY GRANULES OR FLAKES FINE ENOUGH TO FEE THROUGH OMMONLY USED SPREADERS AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE, IS USED ON STEEPER SLOPES THEN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS OR ACCLIMATION AROUND PLANTS.

SLOPE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

STANDARD FOR STABILIZATION WITH MULCH ONLY

<u>DEFINITION</u> STABILIZING EXPOSED SOILS WITH NON-VEGETATIVE MATERIALS EXPOSED FOR PERIODS LONGER THAN 14 DAYS.

O PROTECT EXPOSED SOIL SURFACES FROM EROSION DAMAGE AND TO REDUCE OFFSITE ENVIRONMENTAL DAMAGE.

CONDITION WHERE PRACTICE APPLIES
THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON-SITE AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT. CONSULT WITH LOCAL MUNICIPAL ORDINANCES ON ANY RESTRICTION.

WATER QUALITY ENHANCEMENT
PROVIDES TEMPORARY MECHANICAL PROTECTION AGAINST WIND OR RAINFALL INDUCED SOIL EROSION UNTIL PERMANENT VEGETATIVE COVER MAY BE ESTABLISHED.

<u>THERE APPLICABLE</u> 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 PROTECTION CAN

METHODS AND MATERIALS

SITE PREPARATION

PROTECTIVE MATERIALS

A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH PPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING, B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES. SEDIMENT BASINS, AND WATERWAYS, SEE STANDARDS 11 THROUGH 42

A UNROTTED SMALL-GRAIN STRAW AT 2.0 TO 2.5 TONS PER ACRE IS SPREAD UNIFORMLY AT 90 TO 115 POUNDS PER 1.000 SQUARE FEET AND ANCHORED WITH A MULCH ANCHORING TOOL, LIQUID MULCH BINDERS, OR NETTING TIE DOWN, OTHER SUITABLE MATERIALS MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT. THE APPROVED RATES ABOVE HAVE BEEN MET WHEN THE MULCH COVERS THE ROUND COMPLETELY UPON VISUAL INSPECTION. I.E. THE SOIL CANNOT BE SEEN BELOW THE MULCH

C. SYNTHETIC OR ORGANIC SOIL STABILIZERS MAY BE USED UNDER SUITABLE CONDITIONS AND IN QUANTITIES AS RECOMMENDED BY THE MANUFACTURER

- WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 POUNDS PER ACRE (OR ACCORDING TO THE MANUFACTURER'S REQUIREMENTS) MAY BE APPLIED BY A HYDROSEEDER.
- E. MULCH NETTING, SUCH AS PAPER JUTE, EXCELSIOR, COTTON, OR PLASTIC, MAY BE USED.
- WOODCHIPS APPLIED UNIFORMLY TO A MINIMUM DEPTH OF 2 INCHES MAY BE USED. WOODCHIPS WILL NOT BE USED ON AREAS WHERE LOWING WATER COULD WASH THEM INTO AN INLET AND PLUGI

3. GRAVEL, CRUSHED STONE, OR SLAG AT THE RATE OF 9 CUBIC YARDS PER 1,000 SQ. FT. APPLIED UNIFORMLY TO A MINIMUM DEPTH OF 3 INCHES MAY BE USED, SIZE 2 OR 3 (ASTM C-33) IS RECOMMENDED.

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

A. PEG AND TWINE - DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISS-CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS. B. MULCH NETTINGS - STAPLE PAPER, COTTON, OR PLASTIC NETTINGS OVER MULCH. USE DEGRADABLE NETTING IN AREAS TO BE MOWED.

NETTING IS USUALLY AVAILABLE IN ROLLS 4 FEET WIDE AND UP TO 300 FEET LONG CRIMPER MULCH ANCHORING COULTER TOOL - A TRACTOR-DRAWN IMPLEMENT ESPECIALLY DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL SURFACE. THIS PRACTICE AFFORDS MAXIMUM EROSION CONTROL, BUT ITS USE IS LIMITED TO THOSE SLOPES UPON WHICH THE TRACTOR CAN OPERATE SAFELY. SOIL PENETRATION SHOULD BE ABOUT 3 TO 4 INCHES. ON SLOPING LAND, THE OPERATION SHOULD BE ON THE CONTOUR.

1. 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:

D. LIQUID MULCH-BINDERS

a. ORGANIC AND VEGETABLE BASED BINDERS - NATURALLY OCCURRING, POWDER BASED, HYDROPHILIC MATERIALS THAT MIXED WITH WATER FORMULATES A GEL AND WHEN APPLIED TO MULCH UNDER SATISFACTORY CURING CONDITIONS WILL FORM MEMBRANE NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYTO-TOXIC EFFECT OR IMPEDE GROWTH OF TURFGRASS. VEGETABLE BASED GELS SHALL BE APPLIED AT RATES AND WEATHER CONDITIONS RECOMMENDED BY THE MANUFACTURER

SYNTHETIC BINDERS - HIGH POLYMER SYNTHETIC EMULSION, MISCIBLE WITH WATER WHEN DILUTED AND FOLLOWING APPLICATION TO MULCH, DRYING AND CURING SHALL NO LONGER BE SOLUBLE OR DISPERSIBLE IN WATER. IT SHALL BE APPLIED AT RATES AND WEATHER CONDITIONS RECOMMENDED BY THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF

CONSTRUCTION SEQUENCE

EXACT TIMING FOR DEVELOPMENT OF THIS PROJECT IS NOT KNOWN AT THIS TIME. HOWEVER, IT IS ANTICIPATED THAT CONSTRUCTION WILL COMMENCE IN THE SPRING OF 2024 AND WILL PROCEED IMMEDIATELY AND CONTINUOUSLY ONCE THE REQUIRED APPROVALS ARE SECURED. ITEMS AND DURATIONS OF CONSTRUCTION WILL OCCUR APPROXIMATELY AS FOLLOWS: PHASE DURATION

PH	ASE	DURATION
1.	INSTALL TEMPORARY SOIL EROSION FACILITIES (CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE, INSTALL SILT FENCE, INSTALL TREE PROTECTION FENCING)	IMMEDIATELY
2.	SITE DEMOLITION	2 WEEKS
3.	ROUGH CLEARING AND GRADING	2 WEEKS
4.	TEMPORARY SEEDING	IMMEDIATELY
5.	UTILITY INSTALLATION	2 WEEKS
6.	CURB AND SIDEWALK CONSTRUCTION	1 WEEK
7.	CONSTRUCTION OF BUILDING(S)	MARKET
8.	MAINTENANCE OF TEMPORARY EROSION CONTROL MEASURES	CONTINUOUSLY
9.	FINAL CONSTRUCTION/STABILIZATION OF SITE	1 WEEK

*TEMPORARY SEEDING SHALL ALSO BE PERFORMED WHEN NECESSARY IN ACCORDANCE WITH NOTE NO. 1 OF THE SOIL EROSION AND SEDIMENT CONTROL NOTES.

CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL PERMANENT SOIL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION. THE PROPERTY OWNERS SHALL ASSUME THIS RESPONSIBILITY AFTER CONSTRUCTION IS COMPLETED AND CERTIFICATES OF OCCUPANCY ARE ISSUED

THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE ROADWAYS CLEAN AT ALL TIMES. ANY SEDIMENT SPILLED OR TRACKED ON THE ROADWAY WILL BE CLEANED UP IMMEDIATELY, OR AT MINIMUM, BY THE END OF EACH WORK DAY

DUST GENERATION SHALL BE CONTROLLED ON A CONSTANT BASIS BY WETTING THE SURFACE AND/OR APPLICATION OF CALCIUM CHLORIDE.

THE SOIL EROSION INSPECTOR MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED, AS DIRECTED BY THE DISTRICT INSPECTOR.

STEEP SLOPES SHALL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR SUITABLE EQUAL. (SEE ANCHORING NOTES & NOTE NO 6 OF SOIL FROSION & SEDIMENT CONTROL NOTES) ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON INDIVIDUAL SITES SHALL APPLY TO ANY SUBSEQUENT OWNERS

STANDARD FOR TOPSOILING

A. TOPSOIL SHOULD BE FRIABLE1, LOAMY2, FREE OF DEBRIS, OBJECTIONABLE WEEDS AND STONES, AND CONTAIN NO TOXIC SUBSTANCE OR ADVERSE CHEMICAL OR PHYSICAL CONDITION THAT MAY BE HARMFUL TO PLANT GROWTH. SOLUBLE SALTS SHOULD NOT BE EXCESSIVE (CONDUCTIVITY LESS THAN 0.5 MILLIMHOS PER CENTIMETER. MORE THAN 0.5 MILLIMHOS MAY DESICCATE SEEDLINGS AND ADVERSELY IMPACT GROWTH). IMPORTED TOPSOIL SHALL HAVE A MINIMUM ORGANIC MATTER CONTENT OF 2.75 PERCENT. ORGANIC

MATTER CONTENT MAY BE RAISED BY ADDITIVES. TOPSOIL SUBSTITUTE IS A SOIL MATERIAL WHICH MAY HAVE BEEN AMENDED WITH SAND, SILT, CLAY, ORGANIC MATTER, FERTILIZER OR LIME AND HAS THE APPEARANCE OF TOPSOIL. TOPSOIL SUBSTITUTES MAY BE UTILIZED ON SITES WITH INSUFFICIENT TOPSOIL FOR ESTABLISHING PERMANENT VEGETATION. ALL TOPSOIL SUBSTITUTE MATERIALS SHALL MEET THE REQUIREMENTS OF TOPSOIL NOTED ABOVE. SOIL TESTS SHALL BE PERFORMED TO DETERMINE THE COMPONENTS OF SAND, SILT, CLAY, ORGANIC MATTER, SOLUBLE SALTS AND PH LEVEL.

STRIPPING AND STOCKPILING A. FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER QUANTITY AND OR QUALITY OF SURFACE SOIL JUSTIFIES STRIPPING.

- STRIPPING SHALL BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA. WHERE FEASIBLE, LIME MAY BE APPLIED BEFORE STRIPPING AT A RATE DETERMINED BY SOIL TESTS TO BRING THE SOIL PH TO APPROXIMATELY 6.5
- A 4-6 INCH STRIPPING DEPTH IS COMMON, BUT MAY VARY DEPENDING ON THE PARTICULAR SOIL. STOCKPILES OF TOPSOIL SHOULD BE SITUATED SO AS NOT TO OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL STOCKPILES SHOULD BE VEGETATED IN ACCORDANCE WITH STANDARDS PREVIOUSLY DESCRIBED HEREIN; SEE STANDARDS FOR PERMANENT (PG. 4-1) OR TEMPORARY (PG.7-1) VEGETATIVE COVER FOR SOIL STABILIZATION. WEEDS SHOULD NOT BE ALLOWED TO
- SITE PREPARATION

 A. GRADE AT THE ONSET OF THE OPTIMAL SEEDING PERIOD SO AS TO MINIMIZE THE DURATION AND AREA OF EXPOSURE OF DISTURBED
- SOIL TO EROSION. IMMEDIATELY PROCEED TO ESTABLISH VEGETATIVE COVER IN ACCORDANCE WITH THE SPECIFIED SEED MIXTURE. TIME IS OF THE ESSENCE GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH
- APPLICATION AND ANCHORING, AND MAINTENANCE. SEE THE STANDARD FOR LAND GRADING, PG. 19-1. AS GUIDANCE FOR IDEAL CONDITIONS, SUBSOIL SHOULD BE TESTED FOR LIME REQUIREMENT. LIMESTONE, IF NEEDED, SHOULD BE APPLIED TO BRING SOIL TO A PH OF APPROXIMATELY 6.5 AND INCORPORATED INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF

PRIOR TO TOPSOILING, THE SUBSOIL SHALL BE IN COMPLIANCE WITH THE STANDARD FOR LAND GRADING, PG. 19-1.

FACILITIES QUALIFIED TO TEST SOIL SAMPLES FOR AGRONOMIC PROPERTIES.

EMPLOY NEEDED EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENTATION BASINS, AND WATERWAYS. SEE STANDARDS 11 THROUGH 42.

APPLYING TOPSOIL

A. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING SOIL STRUCTURE; I.E., LESS THAN FIELD A LINIFORM 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 PRODUCING SOIL (PG. 1-1). PURSUANT TO THE REQUIREMENTS IN SECTION 7 OF THE STANDARD FOR PERMANENT VEGETATIVE STABILIZATION. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT PERMANENT VEGETATIVE COVER BECOMES ESTABLISHED ON AT LEAST 80% OF THE SOILS TO BE STABILIZED WITH VEGETATION. FAILURE TO ACHIEVE THE MINIMUM COVERAGE MAY REQUIRE ADDITIONAL WORK TO BE PERFORMED BY THE CONTRACTOR TO INCLUDE SOME OR ALL OF THE FOLLOWING: SUPPLEMENTAL SEEDING. RE-APPLICATION OF LIME AND FERTILIZERS, AND/OR THE ADDITION OF ORGANIC MATTER (I.E. COMPOST) AS A TOP DRESSING. SUCH ADDITIONAL MEASURES SHALL BE BASED ON SOIL TESTS SUCH AS THOSE OFFERED BY RUTGERS COOPERATIVE EXTENSION SERVICE OR OTHER APPROVED LABORATORY

PROJECT INFORMATION

ROJECT LOCATION:

BLOCK 101, LOT 3 14 EAST GARFIELD AVENUE BOROUGH OF ATLANTIC HIGHLANDS, MONMOUTH COUNTY, NJ

> MASONIC HALL 152 MAPLE AVENUE RED BANK, NJ 07701-1716

PPLICANT:

KALIAN MANAGEMENT LLC 2 HENESSEY BOULEVARD, SUITE 1 ATLANTIC HIGHLANDS, NJ 07716

APPLICANT'S PROFESSIONALS RICK BRODSKI, ESQ. ANSELL GRIMM & AARON, PC

1500 LAWRENCE AVENUE OCEAN, NJ 07712 SURVEYOR: INSITE SURVEYING, LLC

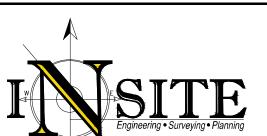
WALL, NJ 07719

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CERTIFICATE OF AUTHORIZATION: 24GA28083200

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SCALE: AS SHOWN

JOB #: 23-756-12 CAD ID: **23-756-12r3**

RAWING TITLE:

NOT FOR CONSTRUCTION APPROVED BY FOR CONSTRUCTION

PRELIMINARY & FINAL *MAJOR SUBDIVISION*

PLAN INFORMATION

& SEDIMENT CONTROL

SOIL EROSION

DESIGNED BY: SGM DATE: 12/18/23 DRAWN BY: JAR CHECKED BY: **JLF**

