

GENERAL NOTES:

- EXISTING TOPOGRAPHIC AND SITE FEATURES SHOWN HEREIN OBTAINED FROM A PLAN ENTITLED TOPOGRAPHIC SURVEY, BY KEITH LUDWIG, PENNONI ASSOCIATES INC., DATED 08/09/24.
- THE CONTRACTOR SHALL REFER TO PLANS THROUGHOUT THE DRAWING SET AND SPECIFICATIONS, IF ANY, FOR ACTUAL LOCATIONS OF ALL SITE FEATURES, AND SHALL COORDINATE THE INSTALLATION OF THESE ELEMENTS WITH THE SITE LAYOUT PRIOR TO INSTALLATION.
- THESE PLANS REPRESENT OVERALL SITEWORK IMPROVEMENTS REQUIRED FOR PROJECT CONSTRUCTION. THE WORK TO BE PERFORMED IS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE PROJECT CONTRACT SPECIFICATIONS, IF ANY. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION; AS SUCH, THESE PLANS DO NOT COMPLETELY REPRESENT ALL SPECIFIC SITE DETAILS OF INSTALLATION REQUIRED FOR SITEWORK CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL IMPROVEMENTS REQUIRED TO ACHIEVE CONSTRUCTION DEPICTED ON THESE PLANS.
- THE CONTRACTOR SHALL ACCEPT THE SITE AS IS. THE CONTRACTOR SHALL MAKE A THOROUGH SITE INSPECTION IN ORDER TO FIELD CHECK EXISTING SITE CONDITIONS, CORRELATE CONDITIONS WITH THE DRAWINGS AND RESOLVE ANY POSSIBLE CONSTRUCTION CONFLICTS WITH THE OWNER AND OWNER'S ENGINEER PRIOR TO COMMENCEMENT OF WORK. THIS INCLUDES A TOPOGRAPHIC SURVEY OF ALL AREAS THE CONTRACTOR REQUIRES ADDITIONAL TOPOGRAPHIC INFORMATION. ANY CONDITIONS THAT DIFFER FROM THE SURVEY SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND OWNER'S ENGINEER PRIOR TO THE START OF WORK.
- INFORMATION RELATED TO ELEVATIONS AND NEW UTILITIES (SUCH AS ROADWAY GRADES, INVERT ELEVATIONS, RIM ELEVATIONS, GRATE ELEVATIONS, BUILDING FINISHED FLOOR ELEVATIONS, ETC.) MAY BE FOUND IN MORE THAN ONE LOCATION ON THE DRAWINGS. CONTRACTOR SHALL REVIEW ALL PLANS, PROFILES AND ANY INFORMATION DATA TABLES FOR CONSISTENCY PRIOR TO CONSTRUCTION. ANY INCONSISTENCIES OR DISCREPANCIES THAT ARE FOUND SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S ENGINEER PRIOR TO THE START OF WORK.
- THERE ARE ADDITIONAL NOTES, SPECIFICATIONS AND REQUIREMENTS CONTAINED ON SHEETS THROUGHOUT THE PLAN SET AND REFERENCES TO SPECIFICATIONS FROM APPLICABLE GOVERNING AUTHORITIES AND INDUSTRY STANDARDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN, REVIEW AND ADHERE TO ALL APPLICABLE REQUIREMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE RESTORATION OF ANY STREET SIGNAGE, UTILITY, CURB, LANDSCAPING, OR SIDEWALK DISTURBED OR DAMAGED DURING CONSTRUCTION TO THE ORIGINAL CONDITION AND SATISFACTION OF THE OWNER. COORDINATE WITH THE TOWNSHIP OF BRANCHBURG AND ADJACENT PROPERTY OWNERS.
- THE CONTRACTOR IS REQUIRED TO OBTAIN THE SERVICES OF A GEOTECHNICAL ENGINEER TO INSPECT, TEST, AND CERTIFY TO THE COMPACTION OF ALL LOAD BEARING FILLS.
- THE CONTRACTOR WILL ENSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. THIS MAY INCLUDE, BUT NOT BE LIMITED TO, REPLACEMENT, RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED, OR REGRADING AS REQUIRED BY THE ENGINEER, EXCEPT FOR THOSE DRAINAGE ITEMS SHOWN AT SPECIFIC LOCATIONS. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COSTS INCURRED TO COMPLY WITH THIS REQUIREMENT.
- THE CONTRACTOR SHALL PROVIDE ANY AND ALL EXCAVATION AND MATERIAL SAMPLES NECESSARY TO CONDUCT REQUIRED SOIL TESTS. ALL ARRANGEMENTS AND SCHEDULING FOR THE TESTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- SOILS TESTING AND ON-SITE INSPECTION SHALL BE PERFORMED BY AN INDEPENDENT GEOTECHNICAL ENGINEER. THE SOILS ENGINEER SHALL PROVIDE COPIES OF TEST REPORTS TO THE CONTRACTOR, AND THE CONSTRUCTION MANAGER, AND SHALL PROMPTLY NOTIFY THE CONSTRUCTION MANAGER AND THE CONTRACTOR SHOULD WORK PERFORMED BY THE CONTRACTOR FAIL TO MEET THESE SPECIFICATIONS.
- CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES AROUND THE WORK AREA AND SHALL PROVIDE PROTECTION AGAINST WATER DAMAGE AND SOIL EROSION.
- ALL TRAFFIC CONTROL DEVICES WITHIN THE RIGHT OF WAY TO BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH "THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION. SIGN POSTS SHALL BE GALVANIZED STEEL AND ALL SIGN MATERIALS SHALL BE MADE OF REFLECTIVE SHEETING ON ALUMINUM BLANKS IN ACCORDANCE WITH NJDOT STANDARD SPECIFICATIONS.
- UNLESS OTHERWISE INDICATED, ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO THE NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, 2019, AS AMENDED AND SUPPLEMENTED TO DATE.
- SHOP DRAWINGS FOR NEW CAST-IN-PLACE AND/OR PRECAST CONCRETE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION OR PROCUREMENT.
- NO LAND DISTURBANCE, CONSTRUCTION ACTIVITY, STOCKPILING, OR STORAGE OF MATERIAL SHALL OCCUR WITHIN OPEN WATERS OR WETLANDS BUFFER BOUNDARIES WITHOUT PRIOR APPROVAL FROM THE NJ DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- THE CONTRACTOR SHALL NOTIFY THE SOMERSET-UNION SOIL CONSERVATION DISTRICT A MINIMUM OF 72 HOURS BEFORE THE BEGINNING OF CONSTRUCTION.
- ALL WORK SHALL COMPLY WITH APPLICABLE STATE, FEDERAL, AND LOCAL CODES, AND ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE UNLESS PREVIOUSLY OBTAINED BY THE OWNER/DEVELOPER.
- UPON COMPLETION OF THE WORK, REMOVE ALL DEBRIS, EQUIPMENT AND UNUSED MATERIALS FROM OWNER PROPERTY AND RESTORE THE AREAS TO THEIR ORIGINAL CONDITION, AS APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL NOTIFY ALL AGENCIES HAVING JURISDICTION AT LEAST 48 HOURS IN ADVANCE OF ANY WORK.
- ALL MATERIAL BROUGHT ON SITE SHALL BE CLEAN FILL, SAMPLED, AND ANALYZED IN ACCORDANCE WITH STANDARD NJDEP QUALITY ASSURANCE STANDARDS AND PRACTICES AT A MINIMUM AS SPECIFIED IN N.J.A.C. 7:26E, TO FULLY CHARACTERIZE THE CONTAMINANTS IN THE LATEST SOIL CLEANUP CRITERIA (SCC). THE CONTRACTOR SHALL SUBMIT TO THE OWNER WRITTEN DOCUMENTATION FROM A LABORATORY CERTIFIED IN NEW JERSEY ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM (E-LCP) AND IN ACCORDANCE WITH N.J.A.C. 7:18 PRIOR TO PLACEMENT OF THE MATERIAL ON SITE. THE MATERIAL MUST NOT CONTAIN CONTAMINANTS ABOVE THE MOST RESTRICTIVE DIRECT CONTACT OR IMPACT TO GROUNDWATER (IGW) SCC.

DEMOLITION/CLEARING NOTES:

- APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF ANY SITE WORK ACTIVITIES INCLUDING DEMOLITION/CLEARING AS SHOWN ON THIS PLAN. CONTRACTOR SHALL OBTAIN APPROVAL BY THE TOWNSHIP OF BRANCHBURG PRIOR TO ANY TRAFFIC DISRUPTIONS.
- ALL DEMOLITION WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 241 AND OSHA STANDARDS.
- CONTRACTOR SHALL REFER TO PROJECT ENVIRONMENTAL DOCUMENTS FOR ENVIRONMENTAL CONCERNS (IF ANY) RELATED TO THE SUBJECT PROPERTY. DEMOLITION/CLEARING MATERIALS SHALL BE DISPOSED IN ACCORDANCE WITH LOCAL, STATE AND OTHER JURISDICTIONAL CODE, RULES AND REGULATIONS.
- EXISTING UTILITY SERVICES SHALL BE PROTECTED DURING DEMOLITION/CLEARING AND CONSTRUCTION UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE EXTREME CARE DURING ANY DEMOLITION AND CLEARING ALONG PROPERTY LINES. NEIGHBORING PROPERTIES SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO NEIGHBORING PROPERTIES AND THEIR STRUCTURES DURING DEMOLITION/CLEARING AND CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS, THE TOWNSHIP OF MOUNTAINSIDE, UNION COUNTY, OR STATE OF NEW JERSEY OF ANY EXCAVATION THAT AFFECTS THEIR PROPERTY OR INFRASTRUCTURE.
- PRIOR TO REMOVAL OF EXISTING FULL-DEPTH ASPHALTIC AND/OR CONCRETE PAVEMENT, CONTRACTOR SHALL SAWCUT TO FULL DEPTH TO PROVIDE A CLEAN STRAIGHT EDGE. CONCRETE SIDEWALK AND/OR CURB SHALL BE REMOVED TO THE NEAREST CONTROL JOINT.
- ALL HOLES AND TRENCH AREAS REMAINING AFTER DEMOLITION SHALL BE BACKFILLED TO MATCH EXISTING GRADE IN ACCORDANCE WITH THE GENERAL NOTES HEREON AND APPLICABLE SPECIFICATIONS.
- ALL EXISTING CATCH BASINS AND MANHOLES SHALL BE FIELD LOCATED PRIOR TO WORK AND THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES PERTAINING TO LOCATIONS SHOWN ON THE CONTRACT DRAWINGS.
- CONTRACTOR SHALL NOTIFY OWNER AND THE ENGINEER (72) HOURS PRIOR TO INITIATING ANY UTILITY ABANDONMENT.
- ALL ACTIVE CONSTRUCTION SITES AND LOCATIONS SHALL BE PROVIDED WITH NON-COMBUSTIBLE REFUSE CONTAINER(S) IN SUCH NUMBERS AS SHALL BE NECESSARY TO CONTAIN ALL COMBUSTIBLE REFUSE GENERATED BY THE CONSTRUCTION ACTIVITIES. ALL COMBUSTIBLE REFUSE, RUBBISH AND DEBRIS SHALL BE COLLECTED UP AND DEPOSITED IN THE CONTAINER(S) ON A DAILY BASIS. REFUSE CONTAINER(S) SHALL BE LOCATED A MINIMUM OF 20 FEET AWAY FROM ANY BUILDING, STRUCTURE, LOT LINE OR COMBUSTIBLE MATERIAL STORAGE LOCATION.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROTECTING EXISTING STRUCTURES AS IDENTIFIED ON THE DEMOLITION AND CLEARING PLAN. THE CONTRACTOR MUST NOTIFY THE ENGINEER IF ANY DAMAGE OCCURS TO THESE ITEMS. THE ENGINEER/OWNER WILL DETERMINE WHETHER THE DAMAGED ITEMS CAN BE REPAIRED, OR SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.

UTILITY NOTES:

- GENERAL:**
- THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS, UTILITY LOCATIONS, UTILITY LINES, AND INVERTS PRIOR TO CONSTRUCTION. CONDITIONS FOUND TO DIFFER FROM THOSE SHOWN BY THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE OWNER'S ENGINEER.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND TO TAKE WHATEVER STEPS NECESSARY TO PROVIDE FOR THEIR PROTECTION. THE ENGINEER HAS DILIGENTLY ATTEMPTED TO LOCATE AND INDICATE EXISTING UTILITIES ON THESE PLANS; HOWEVER, THIS INFORMATION IS SHOWN FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS OF UTILITIES SHOWN OR NOT SHOWN. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES FOR EXACT LOCATION OF THEIR UTILITIES PRIOR TO STARTING CONSTRUCTION. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND REPLACE ANY AND ALL DAMAGE MADE TO UTILITIES BY THE CONTRACTOR.
 - THE CONTRACTOR SHALL PROVIDE PROPER NOTIFICATIONS TO THE TOWNSHIP ENGINEER AND/OR DEPARTMENT OF PUBLIC WORKS PRIOR TO CONSTRUCTION.
 - THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORD OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CONTACT THE STATE ONE CALL BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE IMPROVEMENTS SHOWN ON THE PLANS.
 - ALL EXISTING LIGHT POLES, WIRING, ETC. IMPACTED BY CONSTRUCTION SHALL BE REMOVED AND RESTORED IN ACCORDANCE WITH LOCAL CODES AND REGULATIONS.

GRADING AND DRAINAGE NOTES:

- ALL SOIL AND MATERIAL REMOVED FROM THE SITE SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS. DE-WATERING PRACTICES SHALL BE PERFORMED UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY PERMITS FOR THE DISCHARGE OF DE-WATERED GROUNDWATER. ALL SOIL IMPORTED TO THE SITE SHALL BE CERTIFIED CLEAN FILL. CONTRACTOR SHALL MAINTAIN RECORDS OF ALL FILL MATERIALS BROUGHT TO THE SITE.
- THE CONTRACTOR IS REQUIRED TO PROVIDE TEMPORARY AND/OR PERMANENT SHORING WHERE REQUIRED DURING EXCAVATION ACTIVITIES, INCLUDING BUT NOT LIMITED TO UTILITY TRENCHES, TO ENSURE THE STRUCTURAL INTEGRITY OF NEARBY STRUCTURES AND STABILITY OF THE SURROUNDING SOILS.
- EXISTING PIPES (IF ANY) ARE TO BE MAINTAINED AND NEW PIPES (ONCE INSTALLED) SHALL BE PROTECTED WITH A MINIMUM 2' COVER DURING CONSTRUCTION.
- CONTRACTOR SHALL ADJUST AND CUT EXISTING PAVEMENT AS NEEDED TO ASSURE SMOOTH FIT AND CONTINUOUS GRADE.
- ALL SIDEWALKS SHALL HAVE A MAXIMUM 2.0% CROSS SLOPE AND THE CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS.
- BOTTOM OF CURB ELEVATIONS FOR NEW CURB ALONG EXISTING ROCHE INTERIOR CIRCULATION DRIVEWAY SHALL MATCH EXISTING ELEVATIONS, UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR IS RESPONSIBLE TO SET ALL NEW UTILITY COVERS AND RESET ALL EXISTING UTILITY COVERS WITHIN THE PROJECT LIMITS TO FINAL GRADE IN ACCORDANCE WITH ANY APPLICABLE MUNICIPAL, COUNTY, STATE, AND/OR UTILITY AUTHORITY REGULATIONS.

ADA INSTRUCTIONS TO CONTRACTORS

- CONTRACTORS SHALL UTILIZE APPROPRIATE CARE AND PRECISION IN CONSTRUCTION OF ANY ADA ACCESSIBLE COMPONENTS FOR THE SITE. THESE COMPONENTS, AS CONSTRUCTED, MUST COMPLY WITH THE NJ UNIFORM CONSTRUCTION CODE SUBCHAPTER 7 BARRIER FREE ACCESS. FINISHED SURFACES ALONG THE ACCESSIBLE ROUTE OF TRAVEL FROM PARKING SPACES, PUBLIC TRANSPORTATION, PEDESTRIAN ACCESS, INTER-BUILDING ACCESS, TO POINTS OF ACCESSIBLE BUILDING ENTRANCE/EGRESS, SHALL COMPLY WITH THESE ADA CODE REQUIREMENTS. THESE INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
 - PARKING SPACES AND PARKING AISLES - SLOPE SHALL NOT EXCEED 2.00% IN ANY DIRECTION.
 - CURB RAMPS - SLOPE SHALL NOT EXCEED 8.33%.
 - LANDINGS - SHALL BE PROVIDED AT EACH END OF RAMPS, SHALL PROVIDE POSITIVE DRAINAGE, AND SHALL NOT EXCEED 2.00% CROSS SLOPE IN ANY DIRECTION.
 - PATH OF TRAVEL ALONG ACCESSIBLE ROUTE - PROVIDE A 36 INCH MINIMUM UNOBSTRUCTED WIDTH OF TRAVEL (CAR OVERHANGS CANNOT REDUCE THIS MINIMUM WIDTH). THE SLOPE SHALL BE NO GREATER THAN 5.00% IN THE DIRECTION OF TRAVEL, AND SHALL NOT EXCEED 2.00% IN CROSS SLOPE.

ENVIRONMENTAL NOTES

- ALL MATERIALS BROUGHT ON SITE SHALL BE CLEAN FILL, SAMPLED, AND ANALYZED IN ACCORDANCE WITH STANDARD NJDEP QUALITY ASSURANCE STANDARDS AND PRACTICES AT A MINIMUM AS SPECIFIED IN N.J.A.C. 7:26E, TO FULLY CHARACTERIZE THE CONTAMINANTS IN THE LATEST SOIL CLEANUP CRITERIA (SCC). THE CONTRACTOR SHALL SUBMIT TO THE OWNER WRITTEN DOCUMENTATION FROM A LABORATORY CERTIFIED IN NEW JERSEY ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM (E-LCP) AND IN ACCORDANCE WITH N.J.A.C. 7:18 PRIOR TO PLACEMENT OF THE MATERIAL ON SITE. THE MATERIAL MUST NOT CONTAIN CONTAMINANTS ABOVE THE MOST RESTRICTIVE DIRECT CONTACT OR IMPACT TO GROUNDWATER (IGW) SCC.

ABBREVIATIONS

AC	ASPHALT CONCRETE	MAX	MAXIMUM
AFG	ABOVE FINISHED GRADE	MCC	MOTOR CONTROL CENTER
AHJ	AUTHORITY HAVING JURISDICTION	MCP	MOTOR CONTROL PANEL
BCW	BARE COPPER WIRE	MIN	MINIMUM
BLDG	BUILDING	MSA	METER SET ASSEMBLY
CL	CENTER LINE	MSB	MASTER SWITCH BOARD
CNG	COMPRESSED NATURAL GAS	MTR	MOTOR
COMP	COMPRESSOR	(N)	NEW
CONC	CONCRETE	N/A	NOT APPLICABLE
CMU	CONCRETE MASONRY UNIT	NGV	NATURAL GAS VEHICLE
CONT	CONTINUOUS	NTS	NOT TO SCALE
CU FT	CUBIC FEET	NO	NUMBER
CS	CARBON STEEL	OC	ON CENTER
DIA OR Ø	DIAMETER	PL	PLATE
DEPT	DEPARTMENT	POC	POINT OF CONNECTION
DWG	DRAWING	PB	PUSH BUTTON
EX	EXISTING	PR	PROPOSED
EA	EACH	REF	REFERENCE
ELEV OR EL	ELEVATION	REINF	REINFORCEMENT
EQ	EQUAL	(RR)	REMOVE AND REPLACE
ENCL	ENCLOSURE	SCH	SCHEDULE
ESD	EMERGENCY SHUT DOWN	SEC	SECTION
EXIST	EXISTING	SIM	SIMILAR
FES	FLARED END SECTION	SPR	SPRINKLERED
FG	FINISH GRADE	SQ	SQUARE
FFE	FIRST FLOOR ELEVATION	SF	SQUARE FEET
FH	FIRE HYDRANT	SS	STAINLESS STEEL
FIG	FIGURE	STD	STANDARD
FOC	FACE OF CURB	THK	THICK
FSSP	FUEL SYSTEM SUPPORT PANEL	THRU	THROUGH
FX	FIRE EXTINGUISHER	TOP	TOP OF CURB
GALV	GALVANIZED	TRNSFRM	TRANSFORMER
GND	GROUND	TYP	TYPICAL
HC	HANDICAP	UNO	UNLESS NOTED OTHERWISE
HP	HORSE POWER	VERT	VERTICAL
HORIZ	HORIZONTAL	DC	DEPRESSED CURB
TC	TOP OF CURB	HDPE	HIGH DENSITY POLYETHYLENE
BC	BOTTOM OF CURB	RD	ROOF DRAIN
TW	TOP OF WALL	ID	INLINE DRAIN
BW	BOTTOM OF WALL	DMH	DRAINAGE MANHOLE
UNDG	UNDERGROUND	SMH	SANITARY MANHOLE
		OCS	OUTLET CONTROL STRUCTURE

LEGEND

BUILDING		ELECTRICAL HANDHOLE	
PROPERTY LINE		ELECTRICAL METER	
ADJACENT PROPERTY LINE		ELECTRICAL MANHOLE	
SETBACK LINE		ELECTRICAL PANEL BOX	
RIGHT-OF-WAY LINE		ELECTRICAL PEDESTAL	
ROADWAY CENTERLINE		ELECTRICAL STUB OUT	
FENCE		ELECTRICAL STUB OUT	
CURB		MONITORING WELL	
SIDEWALK		SANITARY SEWER CLEANOUT	
CONCRETE		FORCE MAIN MANHOLE	
FULL DEPTH ASPHALT		SANITARY MANHOLE	
CROSSWALK		STEAM MANHOLE	
DETECTABLE WARNING		STORM DRAIN CLEANOUT	
ENTRYWAY		STORM DRAIN MANHOLE	
DEPRESSED CURB		STORM DRAIN HEADWALL	
SPOT ELEVATION	46.34 x	STORM DRAIN ID	
IRRIGATION HEAD		STORM DRAIN INLET/VAULT	
LIGHT		STORM ROOF DRAIN	
BOLLARD		STORM STAND PIPE	
SIGN		STORM DRAIN WING WALL	
SIGN POST AND BOARD		TELEPHONE HANDHOLE	
CONTOUR		TELEPHONE JUNCTION BOX	
SOILS LINE		TELEPHONE MANHOLE	
WATER LINE DOMESTIC		TELEPHONE PANEL BOX	
WATER LINE FIRE		TELEPHONE PEDESTAL	
SANITARY SEWER		SEPTIC TANK	
STORM SEWER		UTILITY POLE	
OVERHEAD ELECTRIC		BUSH	
UNDERGROUND ELECTRIC		CONIFEROUS TREE	
OVERHEAD TELEPHONE		DECIDUOUS TREE	
GEOTHERMAL WELL PIPING		STUMP	
CABLE TV JUNCTION BOX		FIRE HYDRANT	
CABLE TV MANHOLE		WATER MANHOLE	
FIBER HANDHOLE		WATER POST INDICATOR VALVE	
FIBER JUNCTION BOX		SIAMESE CONNECTION	
FIBER MANHOLE		WATER STUB OUT	
GAS MANHOLE		WATER VALVE	
GAS METER		WATER METER	
GAS STUB OUT			



ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

STEPHEN C. HOYT, PE
 PROFESSIONAL ENGINEER
 NEW JERSEY LICENSE NO. 246040415

DATE: 09/19/2025

**TRAILSIDE NATURE AND SCIENCE CENTER
 SENSORY TRAIL DRAINAGE IMPROVEMENTS**

452 NEW PROVIDENCE ROAD
 MOUNTAINSIDE, NEW JERSEY

GENERAL NOTES AND LEGEND

RSC ARCHITECTS
 3 UNIVERSITY PLAZA DRIVE, SUITE 600
 HACKENSACK, NEW JERSEY

NO.	DATE	REVISIONS	BY
1	2025-09-19	ISSUE FOR BID	PM

ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON THE EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO PENNONI ASSOCIATES AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

PROJECT	RSCAR25003
DATE	2025-09-12
DRAWING SCALE	N.T.S.
DRAWN BY	PM
APPROVED BY	SH

NOT FOR CONSTRUCTION



APPROXIMATE PROJECT SITE

AERIAL LOCATION MAP
1"=400'



LEGEND

- EXISTING PAVER WALKWAY TO REMAIN
- EXISTING WOOD DECKING TO REMAIN
- REMOVE EXISTING CRUSHED STONE
- REMOVE EXISTING VEGETATION
- REMOVE AND REPLACE FULL DEPTH ASPHALT PAVEMENT
- REMOVE AND REPLACE CONCRETE CURB



NOT FOR CONSTRUCTION

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ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

STEPHEN C. HOYT, PE
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. 246064015

DATE: 09/19/2025

TRAILSIDE NATURE AND SCIENCE CENTER
SENSORY TRAIL DRAINAGE IMPROVEMENTS

452 NEW PROVIDENCE ROAD
MOUNTAINSIDE, NEW JERSEY

DEMOLITION AND CLEARING PLAN I

RSC ARCHITECTS
3 UNIVERSITY PLAZA DRIVE, SUITE 600
HACKENSACK, NEW JERSEY

NO.	DATE	REVISIONS	BY
1	2025-09-19	ISSUE FOR BID	PM

PROJECT: RSCAR25003
DATE: 2025-09-12
DRAWING SCALE: 1"= 20'
DRAWN BY: PM
APPROVED BY: SH

CS0501

SHEET 4 OF 12

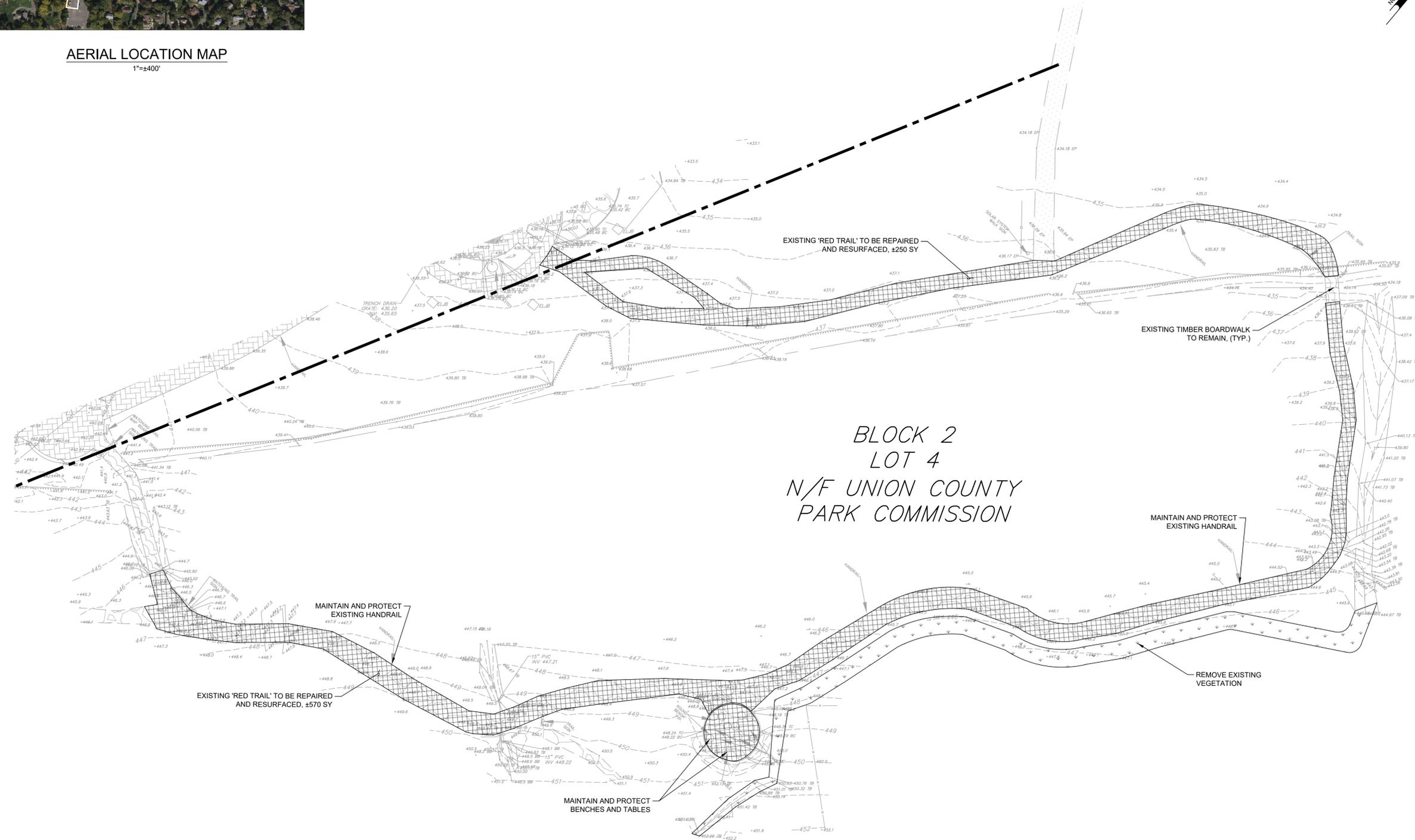
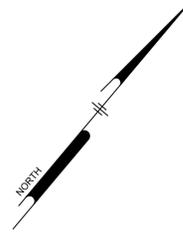
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APPROXIMATE PROJECT SITE

AERIAL LOCATION MAP

1"=±400'



BLOCK 2
LOT 4
N/F UNION COUNTY
PARK COMMISSION

LEGEND

	- EXISTING PAVER WALKWAY TO REMAIN
	- EXISTING WOOD DECKING TO REMAIN
	- REMOVE EXISTING CRUSHED STONE
	- REMOVE EXISTING VEGETATION
	- REMOVE AND REPLACE FULL DEPTH ASPHALT PAVEMENT
	- REMOVE AND REPLACE CONCRETE CURB



NOT FOR CONSTRUCTION

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ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

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DATE: 09/19/2025

**TRAILSIDE NATURE AND SCIENCE CENTER
 SENSORY TRAIL DRAINAGE IMPROVEMENTS**

452 NEW PROVIDENCE ROAD
 MOUNTAINSIDE, NEW JERSEY

DEMOLITION AND CLEARING PLAN II

RSC ARCHITECTS
 3 UNIVERSITY PLAZA DRIVE, SUITE 600
 HACKENSACK, NEW JERSEY

NO.	DATE	REVISIONS	BY
1	2025-09-19	ISSUE FOR BID	PM

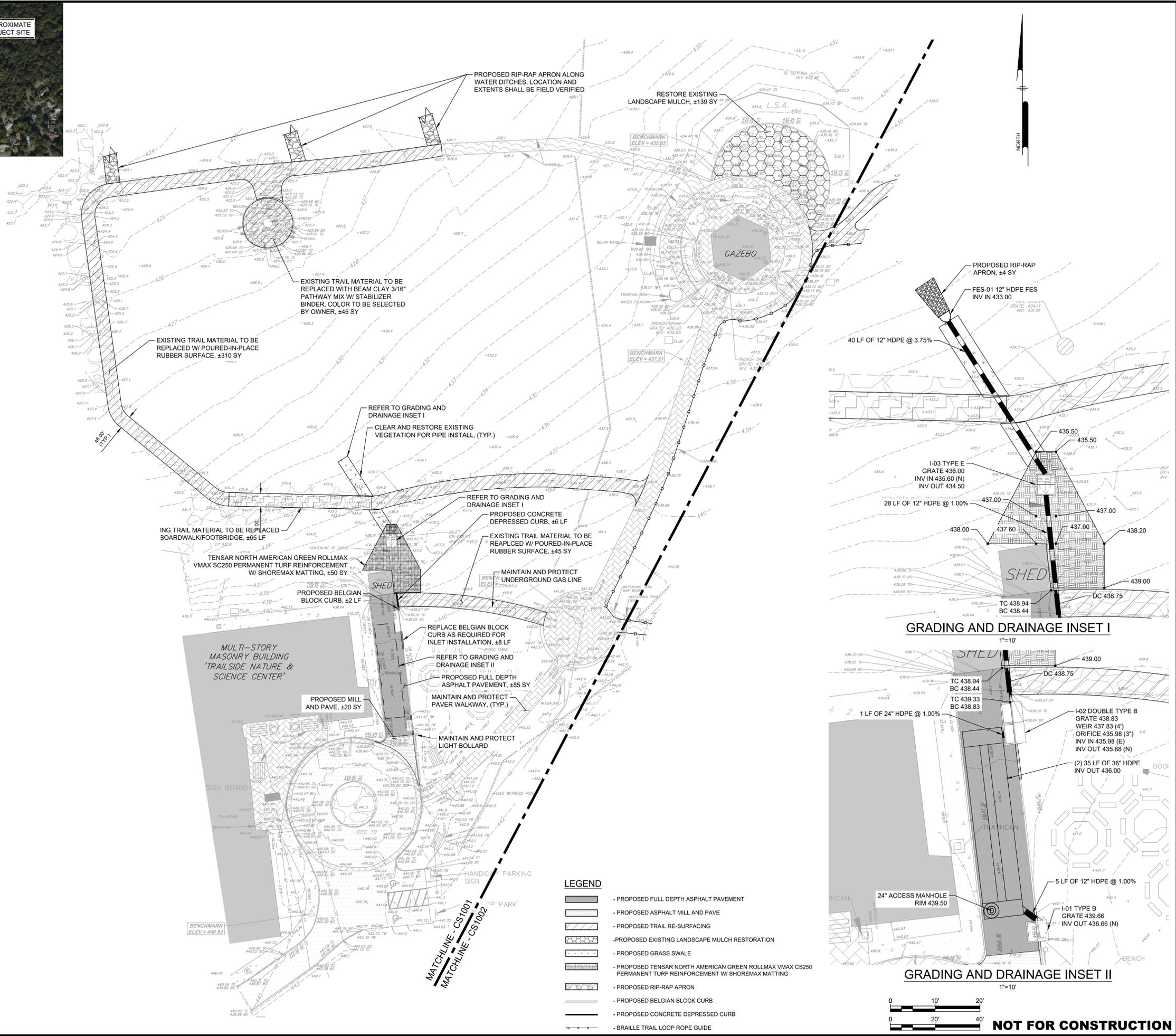
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PROJECT	RSCAR25003
DATE	2025-09-12
DRAWING SCALE	1"= 20'
DRAWN BY	PM
APPROVED BY	SH

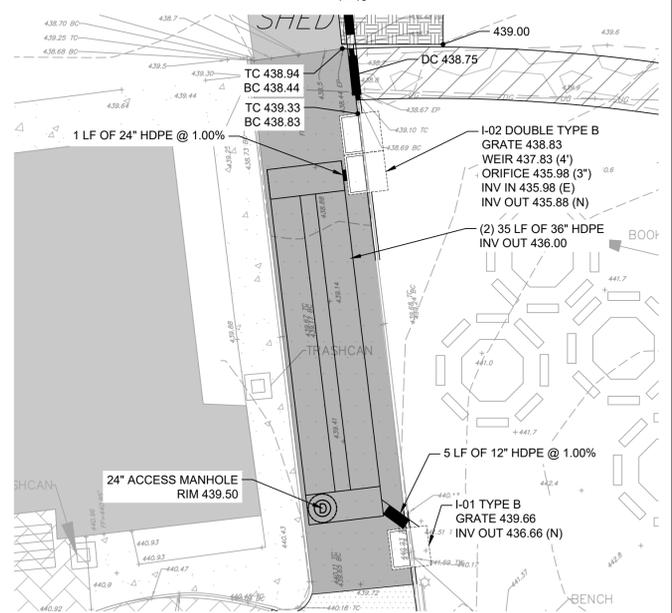


APPROXIMATE PROJECT SITE

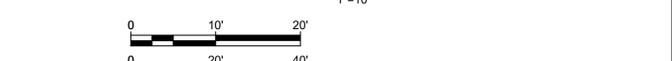
AERIAL LOCATION MAP
1"=±400'



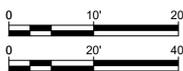
GRADING AND DRAINAGE INSET I
1"=10'



GRADING AND DRAINAGE INSET II
1"=10'



- LEGEND**
- PROPOSED FULL DEPTH ASPHALT PAVEMENT
 - PROPOSED ASPHALT MILL AND PAVE
 - PROPOSED TRAIL RE-SURFACING
 - PROPOSED EXISTING LANDSCAPE MULCH RESTORATION
 - PROPOSED GRASS SWALE
 - PROPOSED TENSOR NORTH AMERICAN GREEN ROLLMAX VMAX CS250 PERMANENT TURF REINFORCEMENT W/ SHOREMAX MATTING
 - PROPOSED RIP-RAP APRON
 - PROPOSED BELGIAN BLOCK CURB
 - PROPOSED CONCRETE DEPRESSED CURB
 - BRAILLE TRAIL LOOP ROPE GUIDE



NOT FOR CONSTRUCTION

NJ COA GA26033300
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ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK
STEPHEN C. HOYT, PE
 PROFESSIONAL ENGINEER
 NEW JERSEY LICENSE NO. 246064015
 DATE: 09/19/2025

TRAILSIDE NATURE AND SCIENCE CENTER
SENSORY TRAIL DRAINAGE IMPROVEMENTS
 452 NEW PROVIDENCE ROAD
 MOUNTAINSIDE, NEW JERSEY
SITE PLAN I
 RSC ARCHITECTS
 3 UNIVERSITY PLAZA DRIVE, SUITE 600
 HACKENSACK, NEW JERSEY

NO.	DATE	REVISIONS	BY
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 DATE: 2025-09-12
 DRAWING SCALE: 1"= 20'
 DRAWN BY: PM
 APPROVED BY: SH

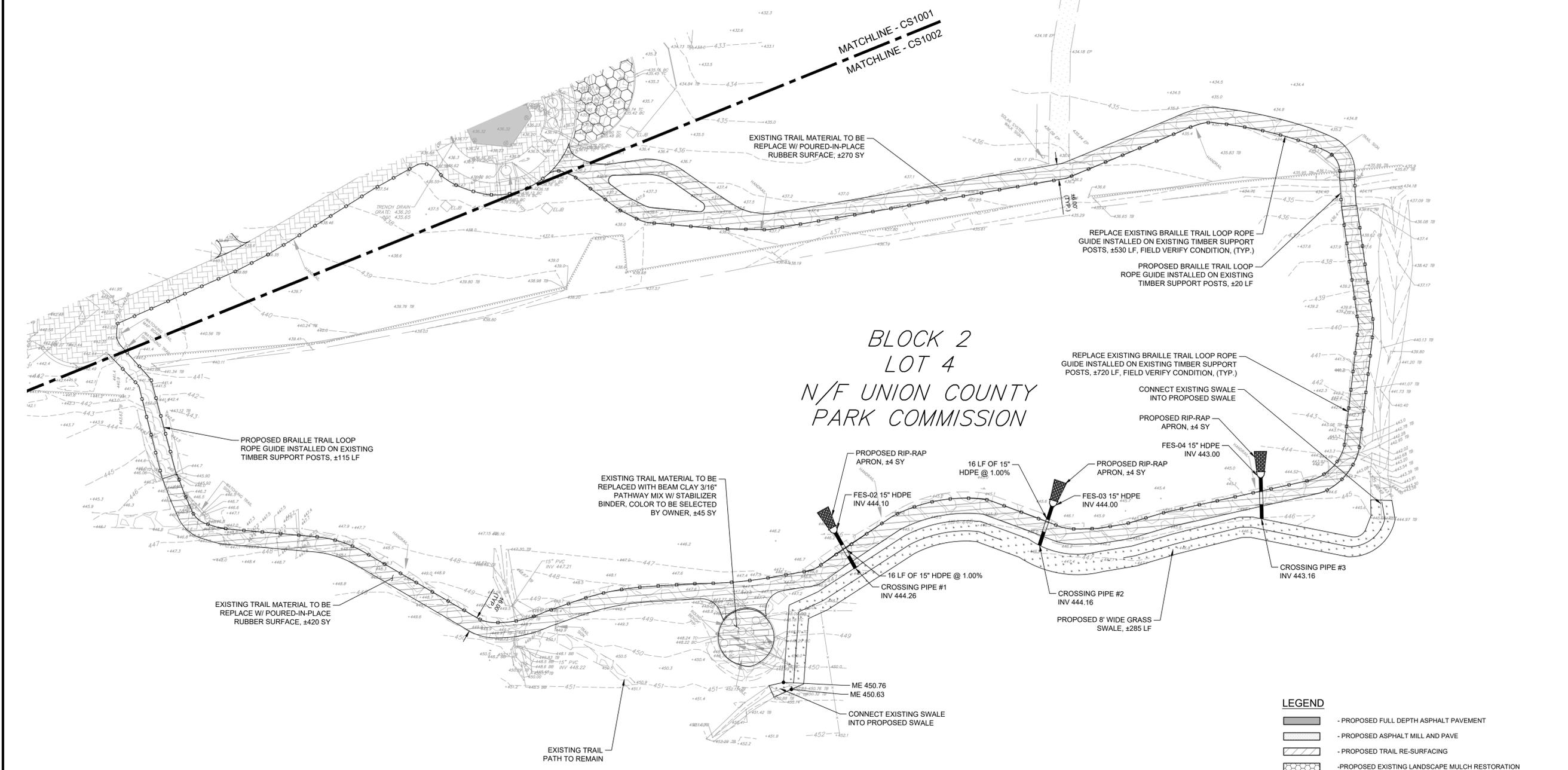
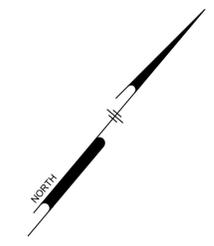
CS1001
 SHEET 6 OF 12

PLOTTED: 09/20/25 1:29 PM BY: P/MLP/AM/Manish PLOTTFILE: Pennoni\CS1001.dwg



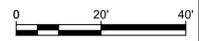
AERIAL LOCATION MAP

1"=±400'



BLOCK 2
LOT 4
N/F UNION COUNTY
PARK COMMISSION

- LEGEND**
- PROPOSED FULL DEPTH ASPHALT PAVEMENT
 - PROPOSED ASPHALT MILL AND PAVE
 - PROPOSED TRAIL RE-SURFACING
 - PROPOSED EXISTING LANDSCAPE MULCH RESTORATION
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 - PROPOSED RIP-RAP APRON
 - PROPOSED BELGIAN BLOCK CURB
 - PROPOSED CONCRETE DEPRESSED CURB
 - BRAILLE TRAIL LOOP ROPE GUIDE



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 PROJECT: PENNONI ASSOCIATES
 FILE: CS1002.dwg

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STEPHEN C. HOYT, PE
 PROFESSIONAL ENGINEER
 NEW JERSEY LICENSE NO. 24GE04015

TRAILSIDE NATURE AND SCIENCE CENTER
 SENSORY TRAIL DRAINAGE IMPROVEMENTS

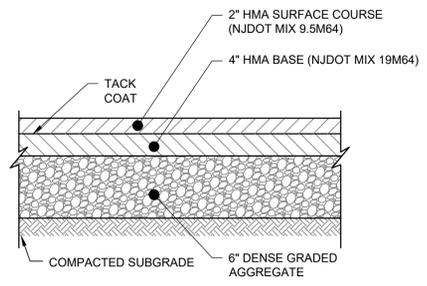
452 NEW PROVIDENCE ROAD
 MOUNTAINSIDE, NEW JERSEY
SITE PLAN II
 RSC ARCHITECTS
 3 UNIVERSITY PLAZA DRIVE, SUITE 600
 HACKENSACK, NEW JERSEY

NO.	DATE	REVISIONS	BY
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PROJECT: RSCAR25003
 DATE: 2025-09-12
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 DRAWN BY: PM
 APPROVED BY: SH

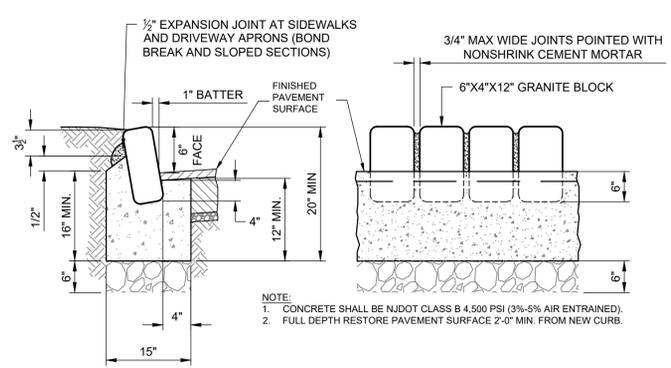
CS1002
 SHEET 7 OF 12

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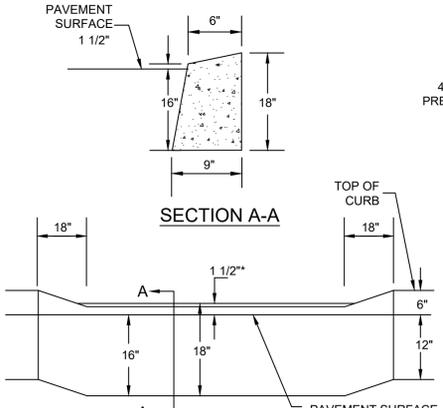
NOTES:
 A. PAVING SECTION BASED ON C.B.R. OF TEN OR BETTER.
 B. TACK COAT TO BE APPLIED AT A RATE OF 0.10 GAL./S.Y.
 C. PROVIDE AN 8 OZ. NON-VOVEN GEOTEXTILE FABRIC BETWEEN SUB-GRADE & STONE SUB-BASE AS DIRECTED BY ON-SITE ENGINEER AND/OR TYP. ENGINEER, AND AS WARRANTED FROM RESULTS OF PROOF-ROLLING SUBGRADE AREAS. RECOMMENDED FABRIC: GOETEX 801 AS MANUFACTURED BY S.I. GEOSOLUTIONS OR EQUAL.

FULL DEPTH ASPHALT PAVEMENT
N.T.S.



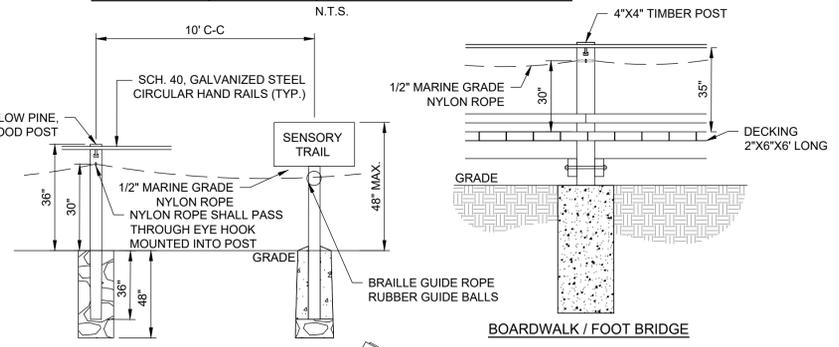
NOTE:
 1. CONCRETE SHALL BE NJDOT CLASS B 4,500 PSI (3%-5% AIR ENTRAINED).
 2. FULL DEPTH RESTORE PAVEMENT SURFACE 2'-0\"/>

GRANITE (BELGIAN) BLOCK CURB DETAIL
N.T.S.



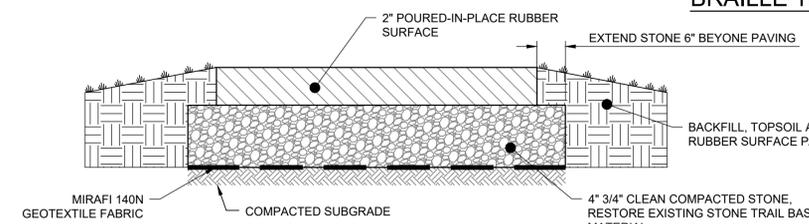
NOTE: 1 1/2\"/>

DEPRESSED CONCRETE CURB DETAIL
N.T.S.



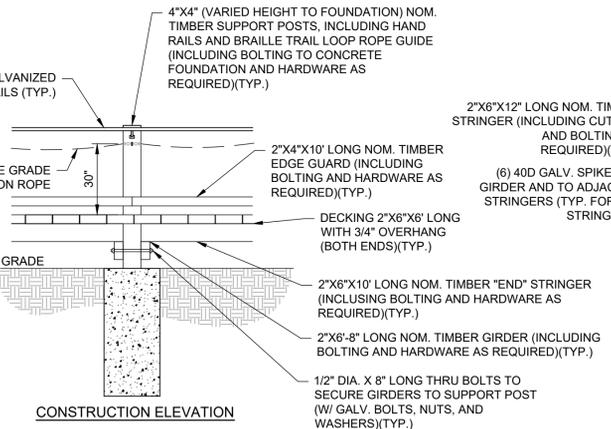
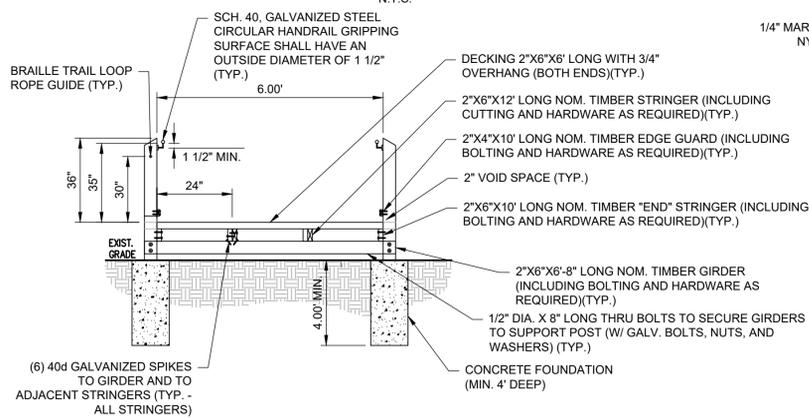
NOTES:
 1. BRAILLE GUIDE ROPE SHALL BE A MINIMUM OF 1/2\"/>

BRAILLE TRAIL LOOP ROPE GUIDE DETAIL
N.T.S.



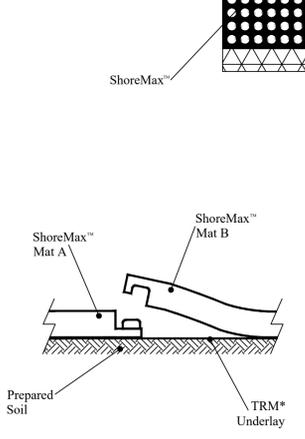
NOTES:
 1. CONTRACTOR SHALL SUBMIT PRODUCT DATA AND SHOP DRAWING FOR APPROVAL PRIOR TO INSTALLATION.
 2. COLOR OF POURED-IN-PLACE RUBBER SURFACE SHALL BE SELECTED BY OWNER.
 3. CONTRACTOR SHALL RESTORE EXISTING TRAIL STONE MATERIAL PRIOR TO INSTALLED POURED-IN-PLACE RUBBER SURFACE.
 4. INSTALLATION OF POURED-IN-PLACE RUBBER SURFACE SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS.
 5. BASIS OF DESIGN: RUBBERWAY; OR APPROVED EQUAL.

POURED-IN-PLACE RUBBER SURFACE
N.T.S.



NOTES:
 1. DECKING SHALL BE PRESSURE TREATED CEDAR. ALL FRAMING AND POSTS SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE.
 2. CONTRACTOR TO PROVIDE SHOP SUBMITTALS DETAILING OVERALL LAYOUT, MATERIALS, CONNECTIONS, CONCRETE FOUNDATIONS, AND EXECUTION FOR REVIEW.

BOARDWALK / FOOT BRIDGE CONSTRUCTION DETAIL
N.T.S.

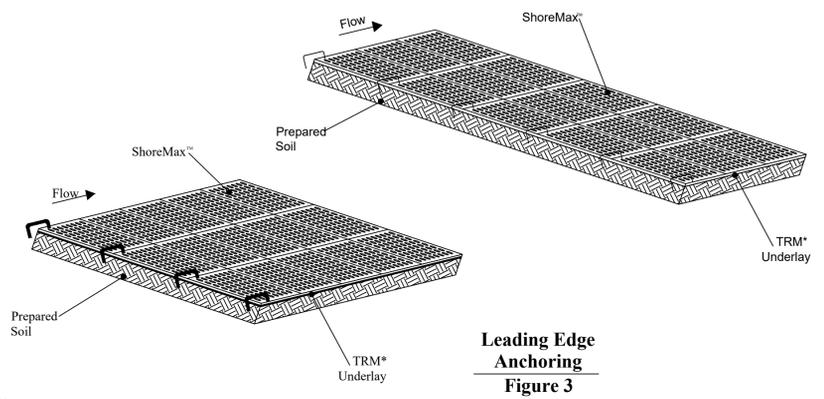


Integrated Panel Interlock System
Figure 2

NOTES:
 1. DETAIL PROVIDED FOR GENERAL REFERENCE ONLY. CONTRACTOR SHALL CONSULT NORTH AMERICAN GREEN FOR SPECIFIC INSTALLATION INSTRUCTIONS.
 2. CONTRACTOR SHALL SUBMIT PRODUCT DATA AND SHOP DRAWING FOR APPROVAL PRIOR TO INSTALLATION.
 3. REFER TO SITE PLAN ON SHEET CS1001 FOR ELEVATION INFORMATION RELATED TO THIS OUTFLOW AREA.

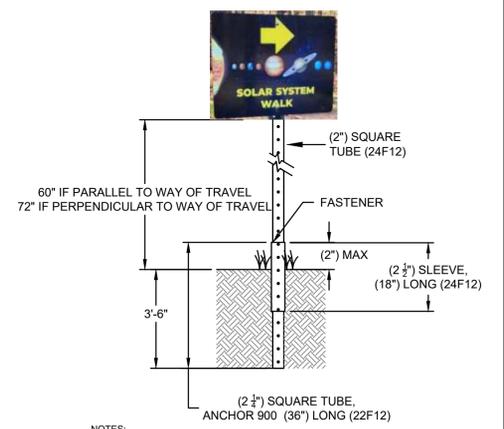


Outlet/Culvert Plan View
Figure 1



ROLLMAX/SHOREMAX TURF REINFORCEMENT DETAIL
N.T.S.

Leading Edge Anchoring
Figure 3



NOTES:
 1. EXISTING SOLAR SYSTEM WALK SIGNAGE ALONG TRAILS TO BE RE-MOUNTED ON ADJUSTABLE METAL POSTS. LOCATION OF EXISTING SOLAR SYSTEM WALK SIGNAGE TO BE FIELD LOCATED. IT IS ANTICIPATED THAT APPROXIMATELY (12) SIGNS WILL BE RE-MOUNTED.
 2. CONTRACTOR TO MAINTAIN AND PROTECT EXISTING SIGNAGE DURING CONSTRUCTION AND RE-MOUNTING.

SIGN POST DETAIL
N.T.S.

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 NEW JERSEY LICENSE NO. 246040415

DATE: 09/19/2025

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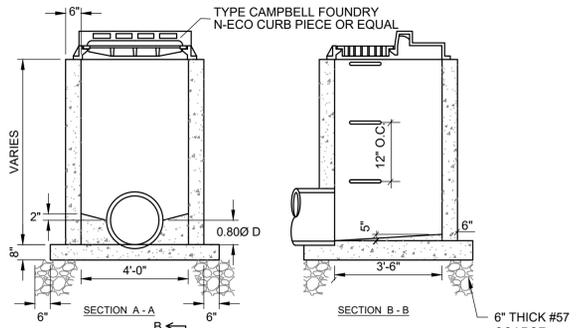
452 NEW PROVIDENCE ROAD
 MOUNTAINSIDE, NEW JERSEY

CONSTRUCTION DETAILS
 RSC ARCHITECTS
 3 UNIVERSITY PLAZA DRIVE, SUITE 600
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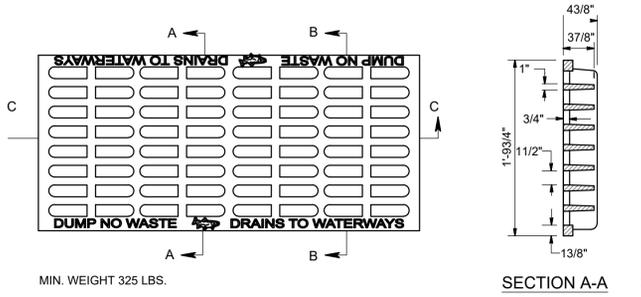
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PROJECT	RSCAR25003
DATE	2025-09-12
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DRAWN BY	PM
APPROVED BY	SH

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NJDOT TYPE "B" INLET DETAIL
N.T.S.

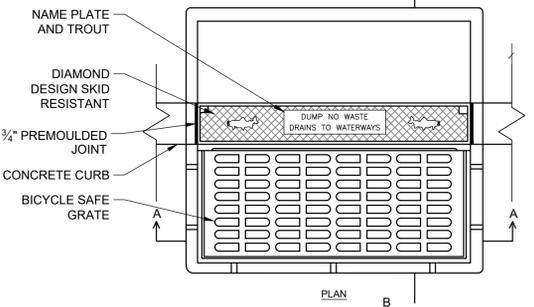


BICYCLE SAFE GRATE (CAST IRON)
N.T.S.

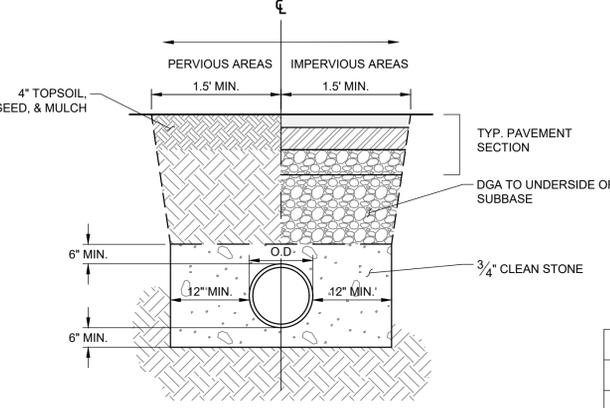
- INLET GENERAL NOTES:**
- INVERTS, FOUNDATIONS, AND FOOTINGS SHALL BE NJDOT CLASS B CONCRETE
 - FRAME AND GRATE TO BE NO. 2618 AS MANUFACTURED BY CAMPBELL FOUNDRY CO. OR EQUAL BICYCLE TYPE GRATE
 - WALLS BELOW THE DEPTH OF 8'-0" MEASURED FROM THE INLET GUTTER TO INVERT SHALL BE 12" THICK. THE FOUNDATION DIMENSION SHALL BE INCREASED 12" IN WIDTH AND TO 12" IN DEPTH.
 - INVERTS TO BE ELIMINATED IN BOTTOM OF TERMINAL INLET. BOTTOMS SHALL BE DISHED AND SLOPED TOWARD THE OUTLET
 - FRAME AND GRATES SHALL BE CAMPBELL FOUNDRY PATTERN NO. 3425 BICYCLE AND ADA COMPLIANT OR APPROVED EQUAL
 - MINIMUM REINFORCEMENT REQUIRED:

DEPTH BELOW TOP OF GRATE	HORIZONTAL REINF.	VERTICAL REINF.
0' - 10'-0"	#13 @ 10" C.C.	#13 @ 18" C.C.
10'-1" - 15'-0"	#13 @ 8" C.C.	#13 @ 18" C.C.
15'-1" - 20'-0"	#13 @ 6" C.C.	#13 @ 18" C.C.

NJDOT TYPE "E" INLET DETAIL
SCALE: NTS



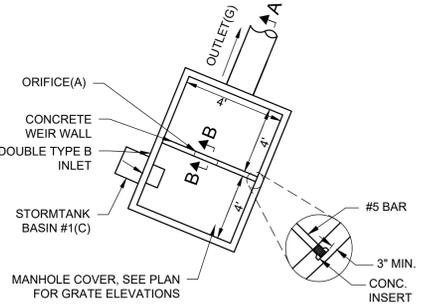
NJDOT TYPE "B" INLET DETAIL
N.T.S.



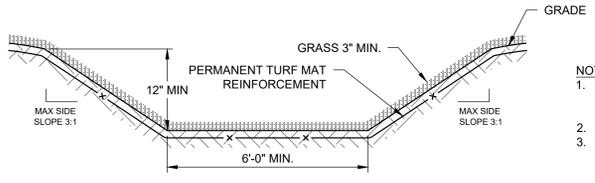
PIPE TRENCH AND BEDDING DETAIL
N.T.S.

- NOTE:**
- PAVEMENT SECTION TO MATCH AT MINIMUM ADJOINING PAVEMENT
 - CONTRACTOR TO BRACE TRENCH IN ACCORDANCE WITH OSHA REQUIREMENTS.
 - AT ROADWAY INSTALLATIONS THE CONTRACTOR SHALL PROVIDE A CLEAN AND SMOOTH TRANSITION TO EXISTING PAVEMENT.
 - TRENCH SHALL BE 3' WIDE MINIMUM.
 - HDPE PIPE INSTALLATION SHALL CONFORM TO ASTM D2321, LATEST EDITION.

OCS-1		
	SIZE	ELEVATION
A	ORIFICE	0'-3"
B	WEIR	4'-0"
C	INLET INVERT	24" HDPE
G	OUTLET INVERT	12" HDPE

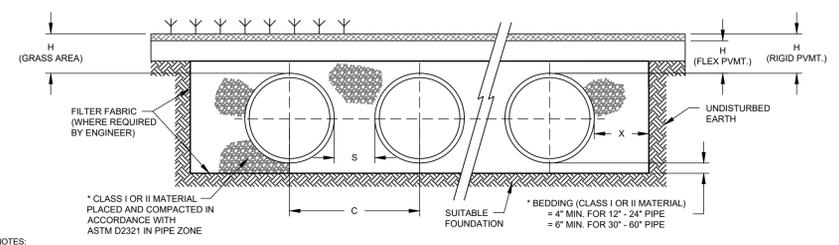


OUTLET CONTROL STRUCTURE - DOUBLE TYPE B INLET
SCALE: NTS



GRASS SWALE CROSS-SECTION
N.T.S.

- NOTES:**
- PERMANENT TURF REINFORCEMENT SHALL BE VMAX SC250 TURF REINFORCEMENT MAT BY NORTH AMERICAN GREEN OR APPROVED EQUAL.
 - INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 - REFER TO STORMWATER MANAGEMENT REPORT FOR CALCULATIONS.



HDPE DETENTION BASIN CROSS-SECTION
N.T.S.

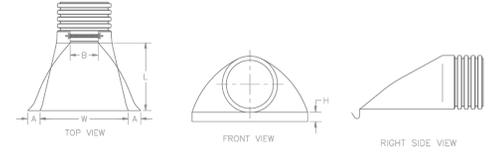
- NOTES:**
- ALL REFERENCES TO CLASS I OR II MATERIAL ARE PER ASTM D2321 "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
 - ALL RETENTION AND DETENTION SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, LATEST EDITION AND THE MANUFACTURER'S PUBLISHED INSTALLATION GUIDELINES.
 - MEASURES SHOULD BE TAKEN TO PREVENT THE MIGRATION OF NATIVE FINES INTO THE BACKFILL MATERIAL, WHEN REQUIRED. SEE ASTM D2321
 - FILTER FABRIC: A GEOTEXTILE FABRIC MAY BE USED AS SPECIFIED BY THE ENGINEER TO PREVENT THE MIGRATION OF FINES FROM THE NATIVE SOIL INTO THE SELECT BACKFILL MATERIAL.
 - FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER, AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
 - BEDDING: SUITABLE MATERIAL SHALL BE CLASS I OR II. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER, UNLESS OTHERWISE NOTED BY THE ENGINEER. MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4" x 24" (100mm x 600mm), 6" (150mm) FOR 30" x 60" (750mm x 1500mm).
 - INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I OR II IN THE PIPE ZONE EXTENDING NOT LESS THAN 6' ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
 - MINIMUM COVER: MINIMUM COVER OVER ALL RETENTION/DETENTION SYSTEMS IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOUTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER IS 12" UP TO 36" DIAMETER PIPE AND 24" OF COVER FOR 42" - 60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

NOMINAL DIAMETER	NOMINAL O.D.	TYPICAL SPACING "S"	NOMINAL TYPICAL SIDE WALL "X" (NON-TRAFFIC)	H (NON-TRAFFIC)	H (TRAFFIC)
12"	14.5"	11"	25.5"	8"	12"
15"	16.5"	12.5"	29.0"	8"	12"
18"	21"	17.0"	38.0"	9"	12"
24"	29"	24"	51.5"	10"	12"
30"	36"	30"	63.0"	12"	12"
36"	42"	36"	72.0"	12"	12"
42"	48"	42"	81.0"	12"	12"
48"	54"	48"	90.0"	12"	12"
54"	60"	54"	99.0"	12"	12"
60"	66"	60"	108.0"	12"	12"
66"	72"	66"	117.0"	12"	12"
72"	78"	72"	126.0"	12"	12"
78"	84"	78"	135.0"	12"	12"
84"	90"	84"	144.0"	12"	12"
90"	96"	90"	153.0"	12"	12"
96"	102"	96"	162.0"	12"	12"
102"	108"	102"	171.0"	12"	12"
108"	114"	108"	180.0"	12"	12"
114"	120"	114"	189.0"	12"	12"
120"	126"	120"	198.0"	12"	12"
126"	132"	126"	207.0"	12"	12"
132"	138"	132"	216.0"	12"	12"
138"	144"	138"	225.0"	12"	12"
144"	150"	144"	234.0"	12"	12"
150"	156"	150"	243.0"	12"	12"

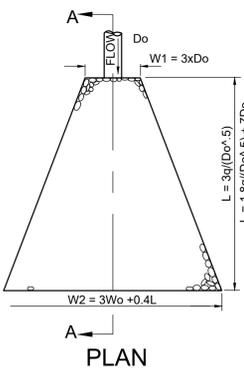
* CLASS I BACKFILL REQUIRED AROUND 60" DIAMETER FITTINGS.

Diameter	PIPE DIAMETER, in (mm)			
	12	15	18	24
n (mm)	300	375	450	600
s (mm)	6.5	6.5	7.5	7.5
b (max) (mm)	10.0	10.0	15.0	18.0
h (mm)	(254)	(254)	(381)	(475)
n (mm)	(165)	(165)	(165)	(165)
s (mm)	(635)	(635)	(635)	(635)
w (mm)	29.0	29.0	35.0	45.0
h (mm)	(737)	(737)	(889)	(1143)

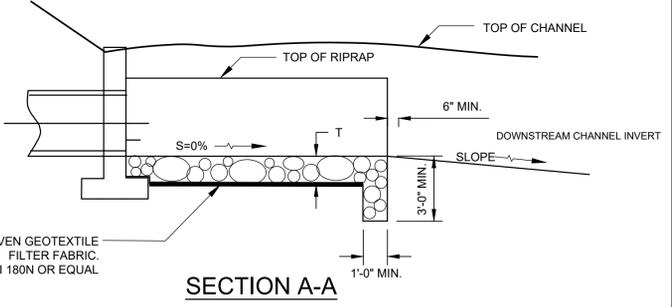
* Product detail may differ slightly from actual product appearance.



FLARED-END SECTION (FES) DETAIL
N.T.S.



RIP-RAP APRON DETAIL
N.T.S.



SECTION A-A

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452 NEW PROVIDENCE ROAD
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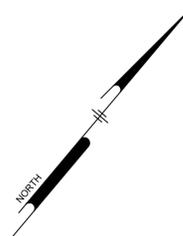
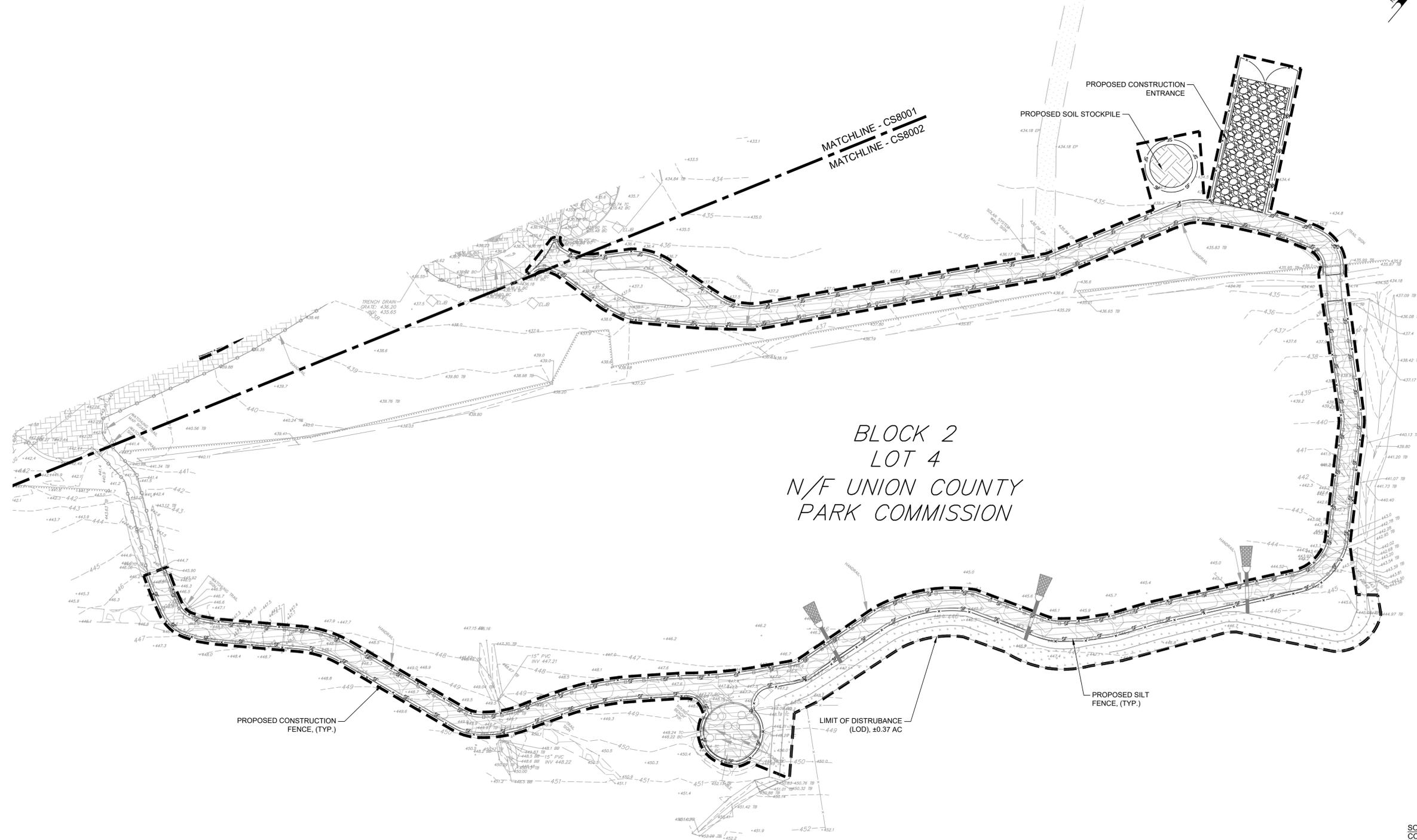
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DATE: 2025-09-12
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NOT FOR CONSTRUCTION

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- SOIL EROSION AND SEDIMENT CONTROL LEGEND**
- CONSTRUCTION ENTRANCE
 - SOIL STOCKPILE
 - SILT FENCE
 - CONSTRUCTION FENCE
 - SILT SOCK
 - LIMIT OF DISTURBANCE



NOT FOR CONSTRUCTION

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

STEPHEN C. HOYT, PE
 PROFESSIONAL ENGINEER
 NEW JERSEY LICENSE NO. 246064015

DATE: 09/19/2025

**TRAILSIDE NATURE AND SCIENCE CENTER
 SENSORY TRAIL DRAINAGE IMPROVEMENTS**

452 NEW PROVIDENCE ROAD
 MOUNTAINSIDE, NEW JERSEY

SOIL EROSION AND SEDIMENT CONTROL PLAN II

RSC ARCHITECTS
 3 UNIVERSITY PLAZA DRIVE, SUITE 600
 HACKENSACK, NEW JERSEY

NO.	DATE	REVISIONS	BY
1	2025-09-19	ISSUE FOR BID	PM

PROJECT: RSCAR25003
 DATE: 2025-09-12
 DRAWING SCALE: 1" = 20'
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CS8002

SHEET 11 OF 12

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SOIL EROSION SEDIMENT CONTROL GENERAL NOTES

- THE CONTRACTOR SHALL SCHEDULE AND CONDUCT HIS OPERATIONS TO MINIMIZE EROSION OF SOIL AND PREVENT SILTING AND MUDDING OF STREAMS, RIVERS, IRRIGATION SYSTEMS AND PERFORMANCE OF THEIR CONTRACT WORK WHICH WILL CONTRIBUTE TO THE CONTROL OF EROSION AND SEDIMENTATION SHALL BE CARRIED OUT IN CONJUNCTION WITH EARTHWORK OPERATIONS OR AS SOON THEREAFTER AS PRACTICABLE. THE AREA OF BARE SOIL EXPOSED AT ANY ONE TIME BY CONSTRUCTION OPERATIONS SHALL BE KEPT TO A MINIMUM.
- PRIOR TO A SUSPENSION OF CONSTRUCTION OPERATIONS FOR A PERIOD OF 20 DAYS OR MORE, ANY AREA THAT HAS BEEN DISTURBED AND LEFT EXPOSED SHALL RECEIVE TEMPORARY STABILIZATION.
- WHEN BORROWED MATERIAL IS OBTAINED FROM OTHER THAN COMMERCIAL OPERATED SOURCES, EROSION OF THE BORROW SITE SHALL BE SO CONTROLLED BOTH DURING AND AFTER COMPLETION OF THE WORK THAT EROSION WILL BE MINIMIZED AND SEDIMENT WILL NOT ENTER STREAMS OR OTHER BODIES OF WATER. WASTE OR DISPOSAL AREAS AND CONSTRUCTION ROADS SHALL BE LOCATED AND CONSTRUCTED IN A MANNER THAT WILL KEEP SEDIMENT FROM ENTERING STREAMS.
- FREQUENT FORDING OF LIVE STREAMS WILL NOT BE PERMITTED; THEREFORE, TEMPORARY BRIDGES OR OTHER STRUCTURES SHALL BE USED WHEREVER AN APPRECIABLE NUMBER OF STREAM CROSSINGS ARE NECESSARY. UNLESS OTHERWISE APPROVED IN WRITING BY THE ENGINEERS, MECHANIZED EQUIPMENT SHALL NOT BE OPERATED IN LIVE STREAMS.
- WHEN WORK AREAS OR GRAVEL PITS ARE LOCATED IN OR ADJACENT TO LIVE STREAMS, SUCH AREAS SHALL BE SEPARATED FROM THE MAINSTREAM BY A DIKE OR OTHER BARRIER TO KEEP SEDIMENT FROM ENTERING A FLOWING STREAM. CARE SHALL BE TAKEN DURING THE CONSTRUCTION AND REMOVAL OF SUCH BARRIERS TO MINIMIZE THE MUDDING OF A STREAM.
- WATER FROM AGGREGATE WASHING OR OTHER OPERATIONS CONTAINING SEDIMENT SHALL BE TREATED BY FILTRATION, A SETTLING BASIN OR OTHER MEANS SUPERFICIAL TO REDUCE THE SEDIMENT CONTENT TO NOT MORE THAN THAT OF THE STREAM INTO WHICH IT IS DISCHARGED.
- POLLUTANTS SUCH AS FUELS, LUBRICANTS, BITUMENS, RAW SEWAGE AND OTHER HARMFUL MATERIALS SHALL NOT BE DISCHARGED INTO OR NEAR RIVERS, STREAMS AND IMPONDMENTS OR INTO NATURAL OR MANMADE CHANNELS LEADING THERETO. WASH WATER OR WASTE FROM CONCRETE MIXING OPERATIONS SHALL BE ALLOWED TO ENTER LIVE STREAMS.
- ALL APPLICABLE REGULATIONS OF FISH AND WILDLIFE AGENCIES AND STATUTES RELATING TO THE PREVENTION AND ABATEMENT OF POLLUTION SHALL BE COMPLIED WITHIN THE PERFORMANCE OF THE CONTRACT.

MAINTENANCE

- ALL WATERWAYS SHALL BE CLEARED AS SOON AS PRACTICABLE OF FALSEWORK, PILING, DEBRIS AND OTHER OBSTRUCTIONS PLACED DURING CONSTRUCTION OPERATIONS AND NOT A PART OF THE FINISHED WORK.
- SEDIMENTATION COLLECTED IN THE DETENTION BASIN SHALL BE REMOVED AFTER IT HAS BUILT UP TO THE ELEVATION OF THE BEGINNING OF THE PERFORATIONS IN THE RISER PIPE. ALL SILT COLLECTED SHALL BE PLACED BACK UP ON THE SITE.
- SEEDED AREAS THAT HAVE WASHED AWAY SHALL BE FILLED AND GRADED, AS NECESSARY, AND THEN RESEED. ADDITIONAL HAY MULCHING SHALL BE APPLIED TO RETAIN THE SEED UNTIL IT HAS A CHANCE TO ROOT PROPERLY.
- AREAS THAT CONTAIN SOD SHALL BE CHECKED VERY CAREFULLY TO ENSURE THAT JOINTS BETWEEN THE SOD STRIPS ARE TIGHT AND SECURE. JOINT SEPARATION IS IN EVIDENCE, A CAREFUL INSPECTION OF EACH JOINT SHALL BE MADE TO DETERMINE WHETHER UNDERMINING OF THE STRIPS IS OCCURRING. IF IT IS, THE STRIPS SHALL BE ROLLED UP, THE SUBSURFACE SHALL BE FILLED AND GRAZED, AS REQUIRED, AND THE SOD STRIPS SHALL BE RE-LAID WITH THE RIGHT JOINTS AND PEGGING.
- THE ABOVE PROCEDURE FOR SEEDS AND SODDED AREAS SHALL BE REPEATED AFTER EACH RUNOFF PRODUING RAIN UNTIL NO MORE SIGNS OF EROSION ARE EVIDENT.
- A GOOD STAND OF VEGETATION SHALL BE DEFINED AS THE MANUFACTURER'S RECOMMENDED HEIGHT.
- SHOULD UNFORESEEN EROSION CONDITIONS DEVELOP DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE ACTION TO REMEDY SUCH CONDITIONS AND TO PREVENT DAMAGE TO ADJACENT PROPERTIES AS A RESULT OF INCREASED RUNOFF AND/OR SEDIMENT DISPLACEMENT. SPECIAL ATTENTION SHOULD BE GIVEN TO FROZEN SLOPES. STOCKPILES OF WOOD CHIPS, HAY BALES, CRUSHED STONE AND OTHER MULCHES SHALL BE HELD IN READINESS TO DEAL IMMEDIATELY WITH EMERGENCY PROBLEMS OF EROSION. DURING CONSTRUCTION THE CONTRACTOR WILL BE RESPONSIBLE FOR SOIL EROSION CONTROL MAINTENANCE. AFTER CONSTRUCTION THE OWNER WILL BE RESPONSIBLE FOR MAINTAINING THE FACILITIES.

TEMPORARY EROSION AND SEDIMENT CONTROL

TEMPORARY INLET PROTECTION SHALL BE APPLIED TO EACH INLET. THEY SHALL REMAIN IN PLACE UNTIL A GOOD STAND OF VEGETATION HAS BEEN ESTABLISHED.

SEED SHALL BE APPLIED ACCORDING TO THE ENCLOSED CHART. THE CONTRACTOR SHALL ADHERE TO THE RECOMMENDED SEEDING DATES WHEN SELECTING TEMPORARY SEED TYPES, FERTILIZER, LIME AND MULCH IN ACCORDANCE WITH RATES AND MATERIALS INDICATED IN PERMANENT STABILIZATION SECTION.

TEMPORARY SEEDING AND SEEDING DATES

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MATERIALS	TYPE	APPLICATION RATES
LIME	PULVERIZED	2 TONS/ACRE
FERTILIZER	P K N	600 LB./ACRE
LAWN AREA SEED MIX	TURF TYPE-TALL FESCUE (BLEND OF 3 CULTIVARS)	220 LB./ACRE
	KY BLUEGRASS (BLEND)	20 LB./ACRE
	PERENNIAL RYEGRASS (BLEND)	20 LB./ACRE
NATIVE DETENTION BASIN BOTTOM SEED MIX	ERNST CO. MIX #183 WITH GRAIN RYE OR JAPANESE MILLET COVER CROP	20 LB./ACRE AND 30 LBS./ACRE FOR COVER CROP
NATIVE WILDFLOWER AND GRASS SEED MIX	ERNST CO. MIX #153 WITH GRAIN RYE OR GRAIN RYE COVER CROP	20 LB./ACRE AND 30 LBS./ACRE FOR COVER CROP
MULCH	SALT HAY	1.5 TO 2 TONS/ACRE
MULCH BINDER USE ONLY WITH SALT HAY	SALT HAY ANCHORED WITH WOOD AND FIBER MULCH OR AN APPROVED EQUAL.	90-115 LB./100 S.F. AND ANCHORED WITH MULCHED ANCHORING TOOL OR LIQUID MULCH BINDER, AND SHALL BE PROVIDED ON ALL SEEDING.

*MAY BE PLANTED THROUGH SUMMER IF SOIL MOISTURE IS ADEQUATE OR CAN BE IRRIGATED.

DUST CONTROL SHALL BE ACCOMPLISHED BY PERIODIC SPRINKLING OF DISTURBED AREAS AS REQUIRED.

METHODS

- WORK LIME AND FERTILIZER INTO SOIL WITH A SPRING TOOTH OR DISC HARROW.
- APPLY SEED AT THE GIVEN RATE AND FIRM WITH A ROLLER OR LIGHT DRAG.
- APPLY SALT HAY IN AN UNIFORM FASHION UNTIL 80% OF THE GROUND IS COVERED. A SLIGHTLY HEAVIER APPLICATION IS NECESSARY ON STEEP SLOPES.
- ANCHOR SALT HAY IN PLACE SPRAYING MULCH BINDER AT GIVEN RATES.

PERMANENT STABILIZATION

ALL EXPOSED EARTH SURFACES SHALL BE PERMANENTLY STABILIZED AFTER COMPLETION OF CONSTRUCTION OF ALL SITE IMPROVEMENTS

PERMANENT STABILIZATION SHALL BE ACCOMPLISHED BY THE FOLLOWING METHODS AND MATERIALS.

CROP	SEEDING RATE		SEEDING DATES	
	PER ACRE	PER 1000 SQ. FT.	NORTH JERSEY	SOUTH JERSEY
OATS (SPRING)	1 1/2 BU.	2 LBS.	BEFORE APR. 25	BEFORE APR. 1
RYE	2 BU.	2 LBS.	SEPT. 1 - OCT. 15	SEPT. 1 - NOV. 1
BARLEY (WINTER)	2 BU.	2.4 LBS.	SEPT. 20-30	SEPT. 20 - OCT. 15
RYEGRASSES (ANNUAL)	40 LBS.	0.9 LB.	BEFORE MAY 20 AUG. 15 - OCT. 15	BEFORE MAY 15 AUG. 25 - NOV. 1
KOREAN LESPEDEZA*	25 LBS.	0.6 LB.	-----	FEB. 1 - JULY 5
MILLET (FOXTAIL*)	30 LBS.	0.7 LB.	MAY 10 - JUNE 20	MAY 1 - JULY 1
SUDANGRASS*	60 LBS.	1.4 LB.	MAY 20 - JUNE 20	MAY 1 - JULY 5
WEEPING LOVE-GRASS	3 LBS.	0.1 LB.	JUNE 1 - AUG. 1	MAY 1 - AUG. 15

NOTE:

- PROJECTS LOCATED IN PLANT HARDINESS ZONES, 7A, 7B, PLANT SPECIES FOR PERMANENT VEGETATION SHALL BE BETWEEN 0501 AND 0814, PER TABLE 4-3 OF THE NJ STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.
- AS AN ALTERNATIVE TO THE PRECEDING, AREAS TO RECEIVE PERMANENT VEGETATIVE COVER CAN BE HYDROSEEDING USING THE PREVIOUS FERTILIZATION, SEEDING AND LIMING RATES WITH THE ADDITION OF PAPER FIBER MULCH (400 LBS/ACRE) AND TERRAC MULCH BINDER (1 GALS/ACRE). THE USE OF PAPER FIBER MULCH AND BINDER IN THE SEEDING SLURRY WOULD NEGATE THE NEED FOR WOOD CHIPS, SALT HAY AND ASPHALT MULCH BINDER UNDER METHODS 3 AND 4.
- HYDROSEEDING IS A TWO STEP PROCESS. MULCH CANNOT BE MIXED IN WITH THE SEED, FERTILIZER AND LIME.
- 6" OF CLEAN TOP SOIL SHALL BE PROVIDED ON ALL AREAS OF DISTURBANCE WHERE TOP SOIL DOES NOT EXIST.

SOIL DE-COMPACTION AND TESTING REQUIREMENTS

SOIL COMPACTION TESTING REQUIREMENTS

- SUBGRADE SOILS PRIOR TO THE APPLICATION OF TOPSOIL (SEE PERMANENT SEEDING AND STABILIZATION NOTES FOR TOPSOIL REQUIREMENTS) SHALL BE FREE OF EXCESSIVE COMPACTION TO A DEPTH OF 6.0 INCHES TO ENHANCE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.
- AREAS OF THE SITE WHICH ARE SUBJECT TO COMPACTION TESTING AND/OR MITIGATION ARE GRAPHICALLY DENOTED ON THE CERTIFIED SOIL EROSION CONTROL PLAN.
- COMPACTION TESTING LOCATIONS ARE DENOTED ON THE PLAN. A COPY OF THE PLAN OR PORTION OF THE PLAN SHALL BE USED TO MARK LOCATIONS OF TESTS, AND ATTACHED TO THE COMPACTION REMEDIATION FORM, AVAILABLE FROM THE LOCAL SOIL CONSERVATION DISTRICT. THIS FORM MUST BE FILLED OUT AND SUBMITTED PRIOR TO RECEIVING A CERTIFICATE OF COMPLIANCE FROM THE DISTRICT.
- IN THE EVENT THAT TESTING INDICATES COMPACTION IN EXCESS OF THE MAXIMUM THRESHOLDS INDICATED FOR THE SIMPLIFIED TESTING METHODS (SEE DETAILS BELOW), THE CONTRACTOR SHALL HAVE THE OPTION TO PERFORM EITHER (1) COMPACTION MITIGATION OVER THE ENTIRE MITIGATION AREA DENOTED ON THE PLAN (EXCLUDING EXEMPT AREAS), OR (2) PERFORM ADDITIONAL, MORE DETAILED TESTING TO ESTABLISH THE LIMITS OF EXCESSIVE COMPACTION WHEREUPON ONLY THE EXCESSIVELY COMPACTED AREAS WOULD REQUIRE COMPACTION MITIGATION. ADDITIONAL DETAILED TESTING SHALL BE PERFORMED BY A TRAINED, LICENSED PROFESSIONAL.

COMPACTION TESTING METHODS

- PROBING WIRE TEST (SEE DETAIL)
- HAND-HELD PENETROMETER TEST (SEE DETAIL)
- TUBE BULK DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED)
- NUCLEAR DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED)

NOTE: ADDITIONAL TESTING METHODS WHICH CONFORM TO ASTM STANDARDS AND SPECIFICATIONS, AND WHICH PRODUCE A DRY WEIGHT, SOIL BULK DENSITY MEASUREMENT MAY BE ALLOWED SUBJECT TO DISTRICT APPROVAL.

FURTHER INFORMATION REGARDING SOIL TESTING METHOD OPTIONS ARE LOCATED IN THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY, CHAPTER 19, OR THE WWW.NJ.GOV/AGRICULTURE/DIVISIONS/ANR/NR/CJEROSION.HTML.

SOIL COMPACTION TESTING IS NOT REQUIRED IF WHEN SUBSOIL COMPACTION REMEDIATION (SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) OR SIMILAR) IS PROPOSED AS PART OF THE SEQUENCE OF CONSTRUCTION.

PROCEDURES FOR SOIL COMPACTION MITIGATION PROCEDURES SHALL BE USED TO MITIGATE EXCESSIVE SOIL COMPACTION PRIOR TO PLACEMENT OF TOPSOIL AND ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.

RESTORATION OF COMPACTED SOILS SHALL BE THROUGH DEEP SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.). IN THE ALTERNATIVE, ANOTHER METHOD AS SPECIFIED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER MAYBE SUBSTITUTED SUBJECT TO DISTRICT APPROVAL.

SOIL COMPACTION MITIGATION VERIFICATION FORM

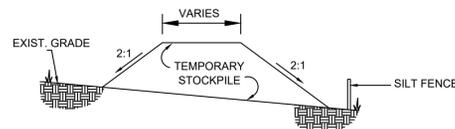
- THE CONTRACTOR MUST COMPLETE AND SUBMIT A SOIL RESTORATION SELF-CERTIFICATION FORM TO THE RELEVANT SOIL CONSERVATION DISTRICT FOR REVIEW AND APPROVAL. CONTRACTOR SHALL PROVIDE A COPY OF SCD APPROVAL TO ENGINEER FOR RECORDS.

CONSTRUCTION SEQUENCE

- ESTABLISH SOIL EROSION AND SEDIMENT CONTROL MEASURES AND TEMPORARY CONSTRUCTION ENTRANCE PER PLAN AND NOTES.
- CLEAR SITE, INCLUDING EXISTING TRAIL MATERIAL AS REQUIRED, VEGETATION, CONCRETE CURB, ASPHALT PAVEMENT, AND EXISTING DRAINAGE STRUCTURES, WITHIN AREAS DESIGNATED AND INDICATED ON DEMOLITION AND CLEARING PLAN.
- INSTALL DRAINAGE IMPROVEMENTS.
- COMPLETE SITE GRADING AND EXISTING TRAIL SURFACE RESTORATION AS REQUIRED.
- INSTALL POURED-IN-PLACE RUBBER TRAIL SURFACING, PATHWAY STABILIZER MATERIAL WITHIN FIREPIT AREA, AND PEDESTRIAN FOOTBRIDGE.
- CONSTRUCT SURROUNDING SITE IMPROVEMENTS.
- APPLY FINAL STABILIZATION MEASURES.
- TOPSOIL, FERTILIZE, SEED, AND MULCH AREAS OF DISTURBANCE.
- REMOVE SOIL EROSION AND SEDIMENT CONTROL MEASURES.

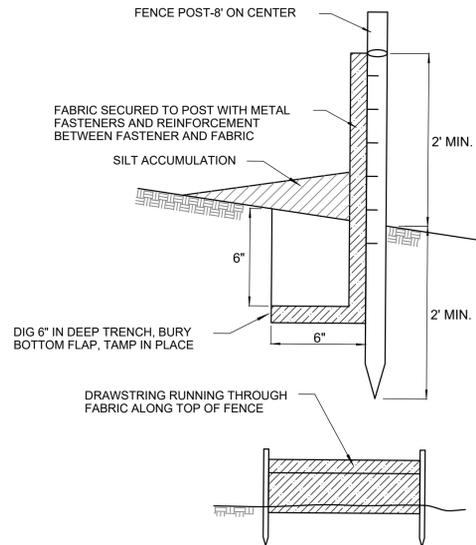
ESTIMATED PROJECT DURATION: 2-3 MONTHS

LIMIT OF DISTURBANCE (LOD): ±24,829 SF; ±0.57 AC

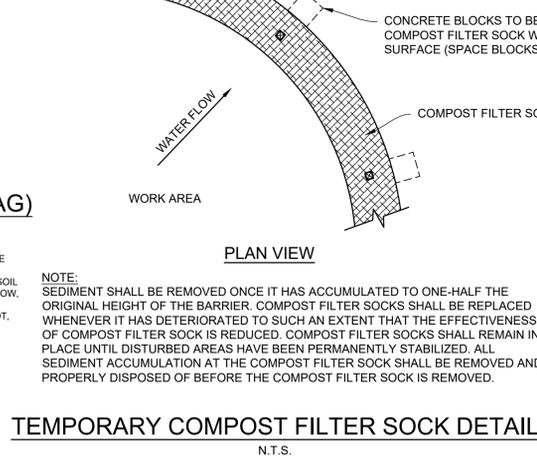
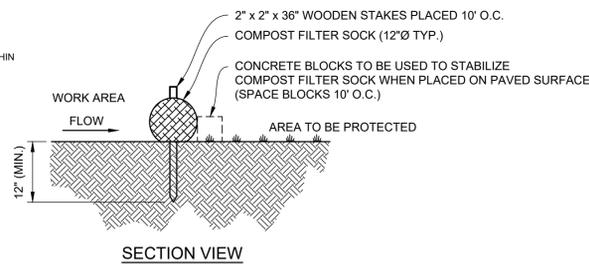


NOTE: CONTRACTOR TO COORDINATE TEMPORARY STOCKPILE AREAS WITH SOIL CONSERVATION DISTRICT REPRESENTATIVE. ALL TEMPORARY STOCKPILE AREAS MUST BE KEPT WITHIN THE LIMIT OF DISTURBANCE.

TEMPORARY SOIL STOCKPILE
N.T.S.



SILT FENCE DETAIL
N.T.S.

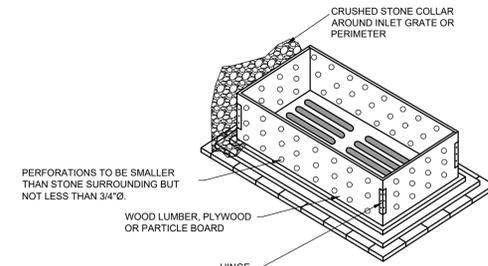


TEMPORARY COMPOST FILTER SOCK DETAIL
N.T.S.

PROBING WIRE TEST
15.5 GA. STEEL WIRE (SURVEY FLAG)
N.T.S.

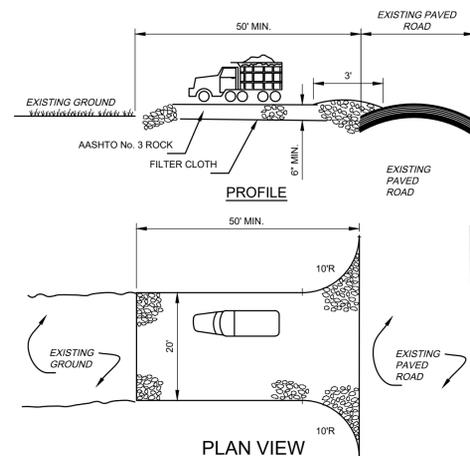
- RECORD DEPTH OF PENETRATION WHEN WIRE DEFORMS; MINIMUM DEPTH OF 6" TO PASS TEST. EITHER PREMEDITATE OR PERFORM THE NEXT TEST.
- SOIL SHOULD BE MOIST BUT NOT SATURATED. DO NOT TEST WHEN SOIL IS EXCESSIVELY DRY OR SUBJECT TO FREEZING TEMPERATURES. SLOW, STEADY DOWNWARD PRESSURE USED TO ADVANCE.
- *WIRE MAY BE RE-INSERTED IF WHEN AN OBSTRUCTION (ROCK, ROOT, DEBRIS) IS ENCOUNTERED.

NOTE: SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. COMPOST FILTER SOCKS SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF COMPOST FILTER SOCK IS REDUCED. COMPOST FILTER SOCKS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL SEDIMENT ACCUMULATION AT THE COMPOST FILTER SOCK SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE COMPOST FILTER SOCK IS REMOVED.



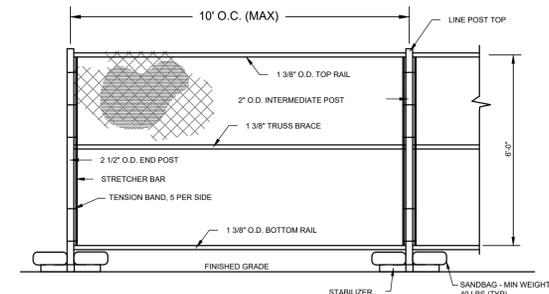
NOTE: INLET PROTECTION TO REMAIN UNTIL COMPLETION OF FINAL GRADING AND ESTABLISHMENT OF COVER. ALSO, PERIODIC CHECKS MUST BE MADE AFTER EACH RAINFALL TO EXCAVATE AND REMOVE EXCESS SEDIMENT AROUND INLET.

INLET PROTECTION (FLAT GRATE)
N.T.S.



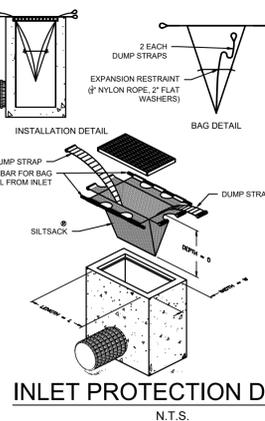
- NOTES:
- STONE SIZE: USE ASTM C-33, SIZE 2" TO 3", CRUSHED STONE.
 - LENGTH: AS REQUIRED BUT NOT LESS THAN FIFTY (50) FEET.
 - THICKNESS: NOT LESS THAN SIX (6) INCHES.
 - WIDTH: NOT LESS THAN THE FULL WIDTH AT POINT WHERE INGRESS OR EGRESS OCCURS.
 - FILTER CLOTH: WILL BE PLACED OVER ENTIRE AREA PRIOR TO PLACING OF STONES.
 - SURFACE WATER: ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
 - MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONES AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
 - VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY, WHEN WASHING IS REQUIRED IT SHALL BE DONE ON AN APPROVED SEDIMENT TRAPPING DEVICE. INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

CONSTRUCTION ENTRANCE
N.T.S.



- NOTES:
- 2X11 GA. WIRE FILL
 - TENSION BANDS WINUTS AND BOLTS (NOT PRESS CLIPS)
 - WIRE TIES EVERY 12"
 - ALL PIPE AND WIRE TO BE HAND DIPPED GALVANIZED.

CONSTRUCTION FENCE DETAIL
N.T.S.



INLET PROTECTION DETAIL
N.T.S.

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STEPHEN C. HOYT, PE
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. 246040415
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SENSORY TRAIL DRAINAGE IMPROVEMENTS
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SOIL EROSION AND SEDIMENT CONTROL ARCHITECTS
RSC ARCHITECTS
3 UNIVERSITY PLAZA DRIVE, SUITE 600
HACKENSACK, NEW JERSEY

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CS8501
SHEET 12 OF 12