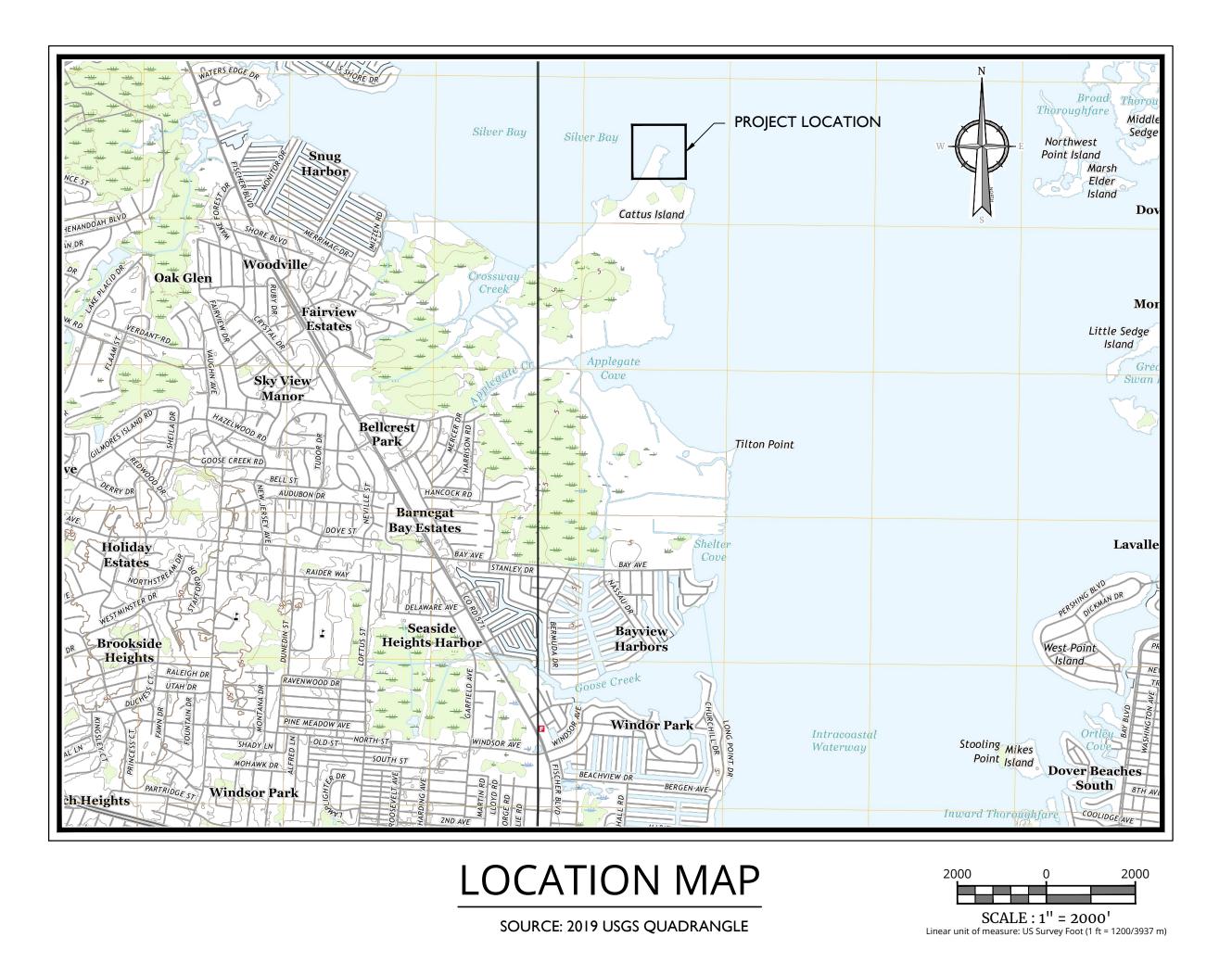
NJDEP PERMIT PLANS FOR LIVING SHORELINE PROJECT AT PAGES POINT; CATTUS ISLAND BLOCK 444, PART OF LOT 77 **TOWNSHIP OF TOMS RIVER** OCEAN COUNTY, NEW JERSEY



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	Doing Business as
	PROTECT YOURSELF ALL STATES REQUIRE NOTIFICATION OF ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM
	DESCRIPTION ADDED HIGH TIDE LINE.
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	DATE 07/10/24
	Digitally signed by Richard Maloney Date: 2020.11.06 09:40:45-0400 Digitally signed by Richard Maloney Date: 2020.11.06 09:40:45-0400 Digitally signed by Richard Maloney Date: 2020.11.06 09:40:45-0400 Digitally signed by Richard Maloney Date: 2020.11.06 09:40:45-0400
	NJDEP PERMIT PLANS
	FOR
	PAGE'S POINT; CATTUS ISLAND
	BLOCK 444 PART OF LOT 77 TOWNSHID OF TOMS BIVER
	TOWNSHIP OF TOMS RIVER OCEAN COUNTY NEW JERSEY
	ColliersEngineering & Design& DesignHOLMDEL (Headquarters) 101 Crawfords Corner Road, Suite 3400 Holmdel, NJ 07733 Phone: 732.383.1950 COLLIERS ENGINEERING & DESIGN, INC. DOING BUSINESS AS MASER CONSULTING
SITE SAFETY	SCALE: DATE: DRAWN BY: CHECKED BY: AS SHOWN 02/29/2024 SM NM PROJECT NUMBER: DRAWING NAME: 23004440G C-CVER
THE OWNER, OR HIS REPRESENTATIVE, IS TO DESIGNATE AN INDIVIDUAL RESPONSIBLE FOR CONSTRUCTION SITE SAFETY DURING THE	SHEET TITLE: COVER SHEET
COURSE OF THE SITE IMPROVEMENTS PURSUANT TO N.J.A.C. 5:23-2.1(e) OF THE N.J. UNIFORM CONSTRUCTION CODE AND CFR 1926.32(f) (OSHA COMPETENT PERSON)".	sheet number: 1 of 9

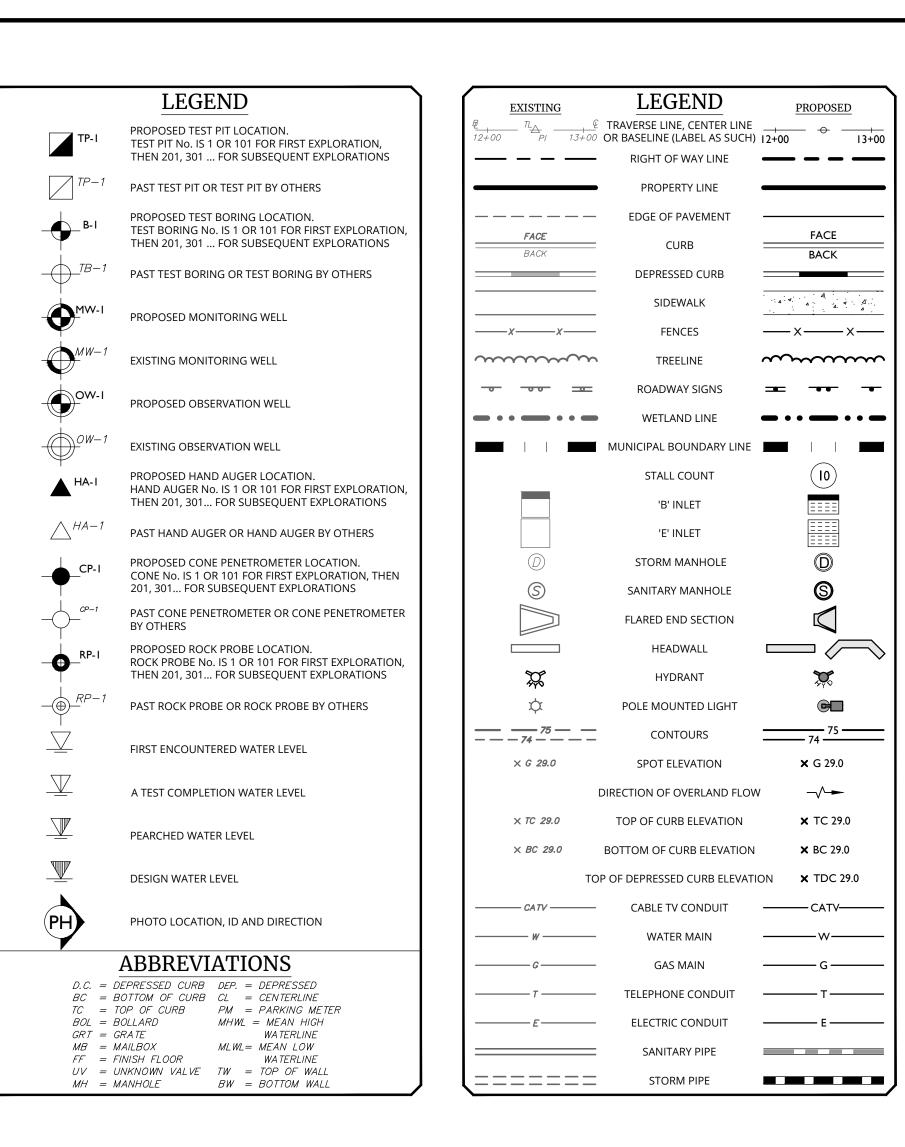
GENERAL NOTES:

- SPECIFIC TO THIS PROJECT: BASED UPON THE NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD 83 (NEAR SURFACE DERIVED Ι. COORDINATES UTILIZING KEYNET GPS).
- 2. EXISTING SITE TOPOGRAPHIC INFORMATION AS SHOWN IS BASED UPON NAVD 88 (NORTH AMERICAN VERTICAL DATUM OF 1988) PER GPS OBSERVATION BY COLLIERS ENGINEERING & DESIGN, UTILIZING SMARTNET GPS.
- WETLANDS AND TOXIC WASTES: THE UNDERSIGNED PROFESSIONAL IS NOT QUALIFIED TO DETERMINE THE EXISTENCE OR 3. NON-EXISTENCE OF WETLANDS AND/OR TOXIC WASTES. THEREFORE, IT SHOULD NOT BE ASSUMED OR CONSTRUED THAT ANY STATEMENT IS BEING MADE BY THE FACT THAT NO EVIDENCE OF WETLANDS AND/OR TOXIC WASTE IS PORTRAYED HEREON. IT IS IN THE BEST INTEREST OF THE CLIENT TO PURSUE THESE MATTERS AS A SEPARATE CONCERN APART FROM THESE PLANS.
- TOPOGRAPHY IN LAND AREAS BASED ON AERIAL SURVEY PERFORMED BY UAS, WATER AREAS BASED ON BATHYMETRIC SURVEY 4 BY HYDROLITE ECHO SOUNDER. MEAN TIDAL RANGE IS 0.37'. 5.
- MEAN HIGH WATER LEVEL IS 0.20'. 6. MEAN LOW WATER LEVEL IS -0.17'. 7.
- 8. ALL DIMENSIONS & COORDINATES ARE GIVEN IN FEET.
- ALL EARTH/ROCK INTERFACES SHALL BE LINED FILTER CLOTH. 9.

SEQUENCE OF CONSTRUCTION:

- CONTRACTOR SHALL NOTIFY NJDEP OF THE DATE CONSTRUCTION IS TO BEGIN AT LEAST SEVEN (7) DAYS PRIOR TO THE DATE (1 DAY).
- CLEAR ENTRANCE TO SITE, INSTALL SILT FENCE, STOCKPILE & STAGING AREA, AND CONSTRUCTION ENTRANCE PAD (I WEEK). 2.
- 3. CLEARING, INSTALL TURBIDITY CURTAIN (2 WEEKS).
- REMOVE ALL DEBRIS INTERFERING WITH SHORELINE CONSTRUCTION AS CONSTRUCTION PROCEEDS (CONTINUOUS). 4.
- MARKOUT CONSTRUCTION BASELINE. INSTALL ROCK BREAKWATERS & REEF BALLS (9 MONTHS). 5.
- INSTALL FILL AREA AND ROUGH GRADING (2 MONTHS). 6.
- FINE GRADE AND INSTALL HIGH MARSH PLANTINGS (I MONTH). 7.
- 8. REMOVE SCD MEASURES & FINAL CLEAN-UP (2 WEEKS).

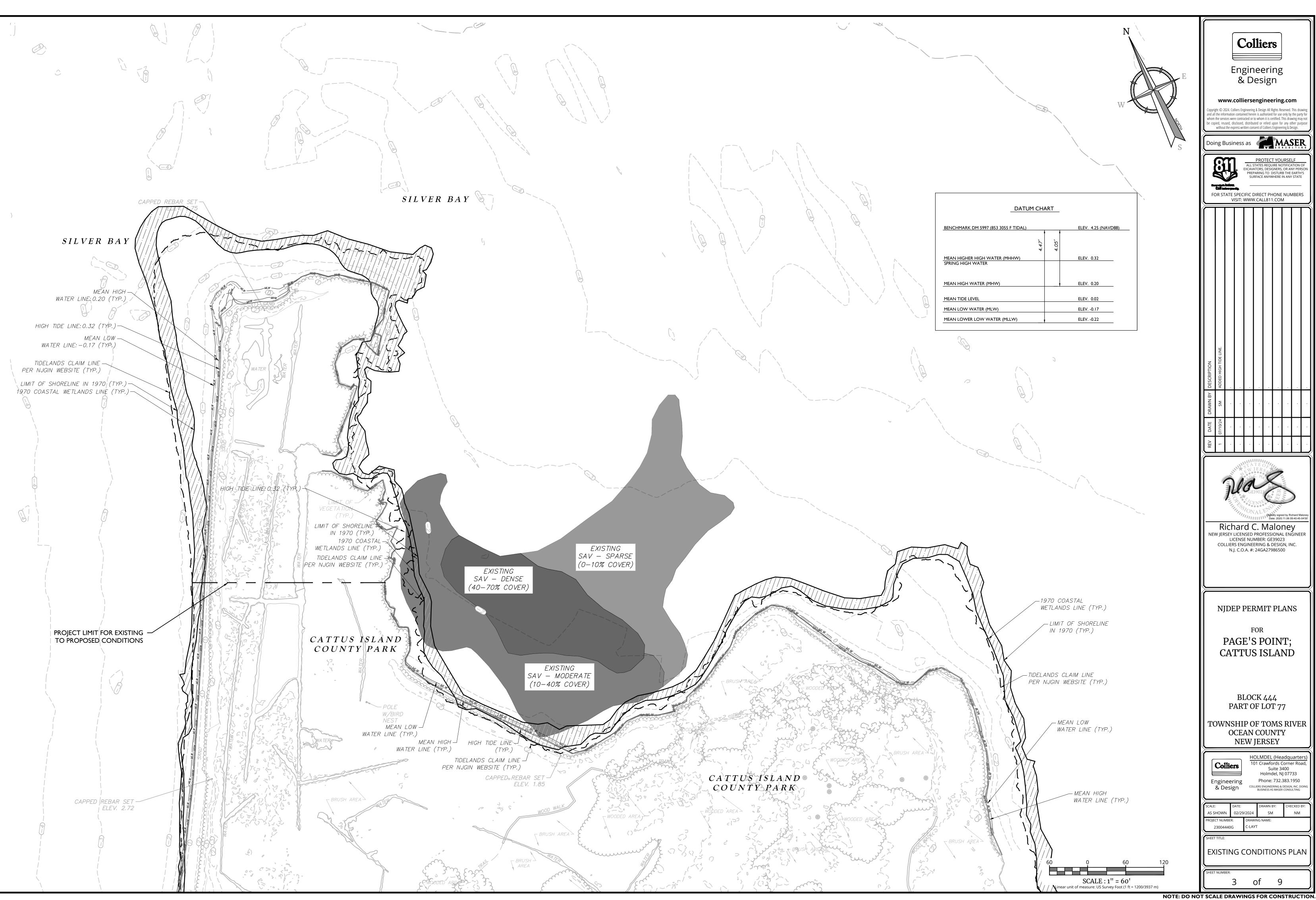
Colliers Engineering & Design Shoreline Restoration - Page's Point LOCATION: (See Plan). GROUND ELEVAT ELEX 5439 Harding Highway, Mays Landing, NJ 08330 PROJECT NO. 23004440G PROJECT NO. 23004440G DATE STARTED DRILLER: M. Kier DRILLER: M. Kier DRILLING EQUIPMENT: ATV CME 55 GROUNDWATER: DEPTH (ft) DATE DATE STARTED DATE FINISHED DATE STARTED DATE FINISHED METHOD: HSA HAMMER: CH Mud Rotary >8' Other CSS X END OF DRILLING (0 hrs.) W FIELD OBSERVER: CHECKED BY: VETHOW Safety Automatic X Other Start D DATE STARTED VETHOW Safety Automatic X Other CSS END OF DRILLING (0 hrs.) W FIELD OBSERVER: CHECKED BY: VETHOW Safety Automatic Y Y Field OBSERVER: CHECKED BY: END OF SOILS / REMARKS VETHOR NW X Other Startum S1 Stratum S1 Strat	EV. FROM: Exist. Grade S439 Harding Highway, Mays Landing, NJ 083 8/2/23 CONTRACTOR: Craig Test Boring Co., Inc 8/2/23 CONTRACTOR: Craig Test Boring Co., Inc B/2/23 CONTRACTOR: Craig Test Boring Co., Inc DRILLER: M. Kier DRILLING EQUIPMENT: ATV CME 55 METHOD: HSA R: S. Dillon R. Pedrick DEPTH BLOWS PER 6 INCHES R: MW Colspan="2">Contraction: Colspan="2"<	330 PROJECT NO. 23004440G 54 330 GROUNDWATER: DEPTH (ft) DATE FIRST ENCOUNTERED Intervention of the state of the sta	A39 Harding Highway, Mays Landing, NJ 08330 PROJECT NO. 23004440G : Craig Test Boring Co., Inc GROUNDWATER: DEPTH (ft) DATE IPMENT: ATV CME 55	ilt, trace(+) f Gravel. (Wet).
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TES	ST BORING: TB-1	TEST BORING: TB-2		TEST BORING: TB-3

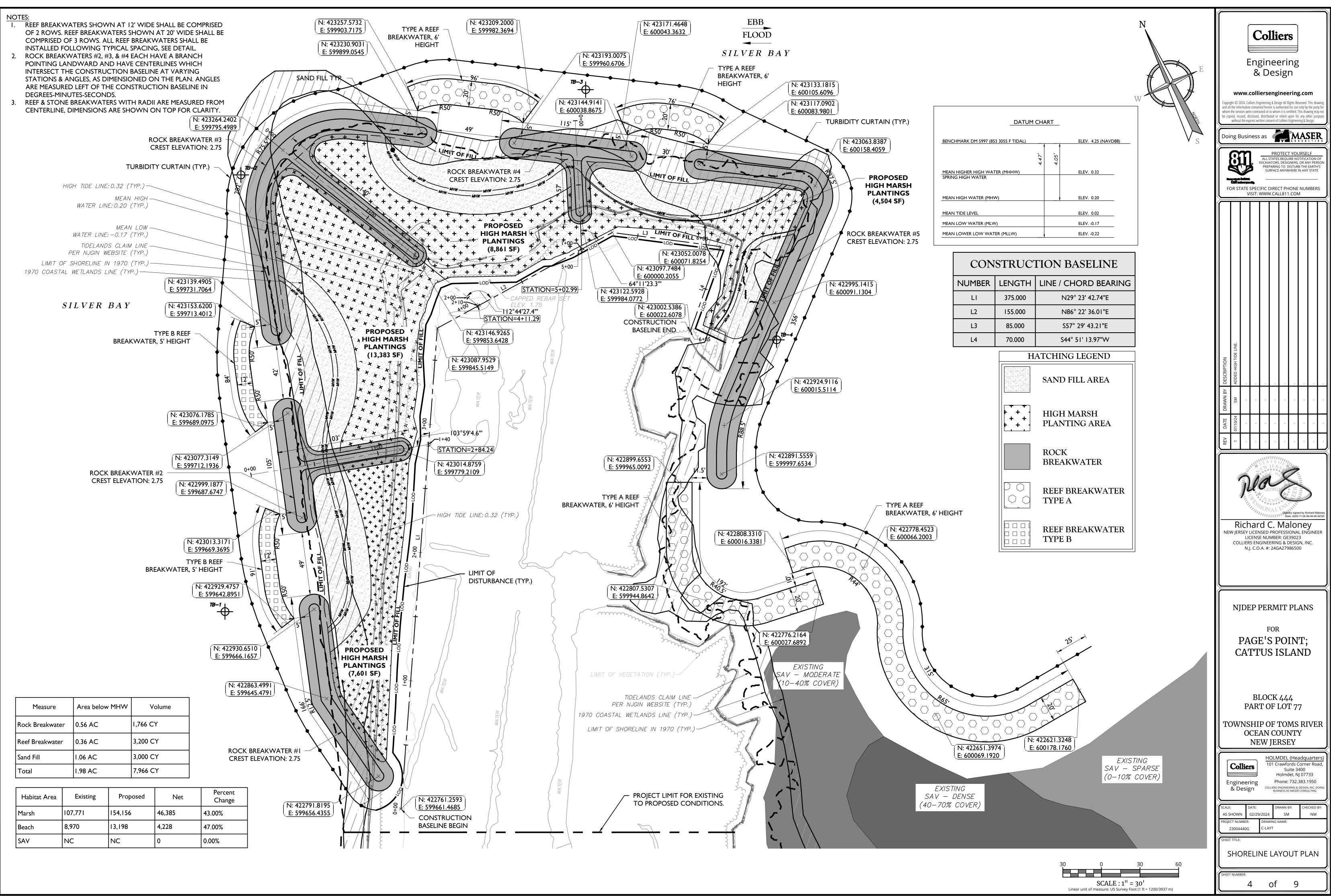


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<u>39 Haro</u> Craig Tr er MENT:	est Bor ATV Cl	ing Co. ME 55 d Rotary	., Inc	2'(Other	C	SS	F	OUNDWATER:		DATE 8/3/23	DATE STARTED 8/3/23 DATE FINISHED 8/3/23 FIELD OBSERVER: S. Dillon
	Safe	ww	х	-	matic ther		x			1 D-1586		FIELD OBSERVER: S. Dillon CHECKED BY: R. Pedrick
AMPLE UMBER		BLOWS PE	R 6 INCHE	5	ERY	ET KOM.	URE)	ы Б Ц	PROFILE			
H (ft.)	0-6"	6-12"	12-18"	18-24"	RECOV (in)	POCKET PENETROM. (tsf)	MOISTURE (%)	WATER	DEPTH_ ELEV.			TION OF SOILS / REMARKS
S-1 0'-2.0' S-2 0'-4.0' S-3	1 4 2	1 5 1	1 4 2	1 4 1	22 24 13				Stratum S1	S-2: Brown c(-)r		
0'-6.0' S-4	3	4	5	5	24				6.0	S-4: Gray f SANI	D, some(-) Silt, tra	ce f Gravel. (Wet).
0'-8.0' S-5	6	5	7	12	12					S-5: Same as S-4	4. (Wet).	
0'-10.0' S-6 0'-12.0'	7	5	11	19	21					S-6: Gray, Tan n	n(+)f SAND, trace	Silt, trace(-) f Gravel. (Wet).
S-7 0'-17.0'	9	12	15	21	18				Stratum S2	S-7: Gray, Tan c	(-)mf SAND, trace	Silt, trace f Gravel. (Wet).
S-8 0'-22.0'	12	13	18	18	17					S-8: Orange, Ta	n cmf SAND, little	Silt, trace f Gravel. (Wet).
S-9 0'-27.0'	11	16	15	21	22				27.0	S-9: Orange, Bro		trace(+) Silt, trace f Gravel. (Wet).
									-27.0		END OF TES	Γ BORING AT 27.0 FEET

TEST BORING: TB-4

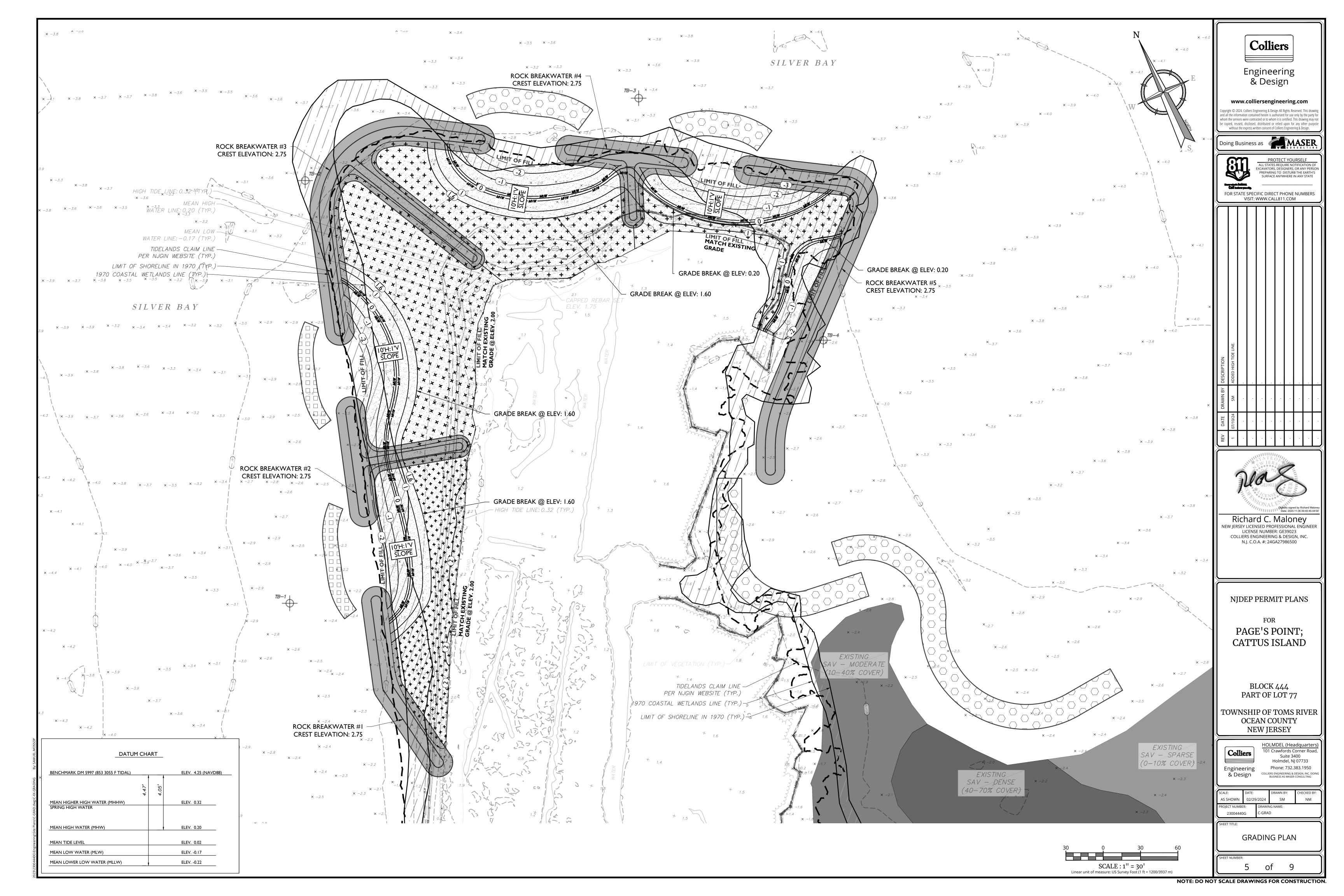
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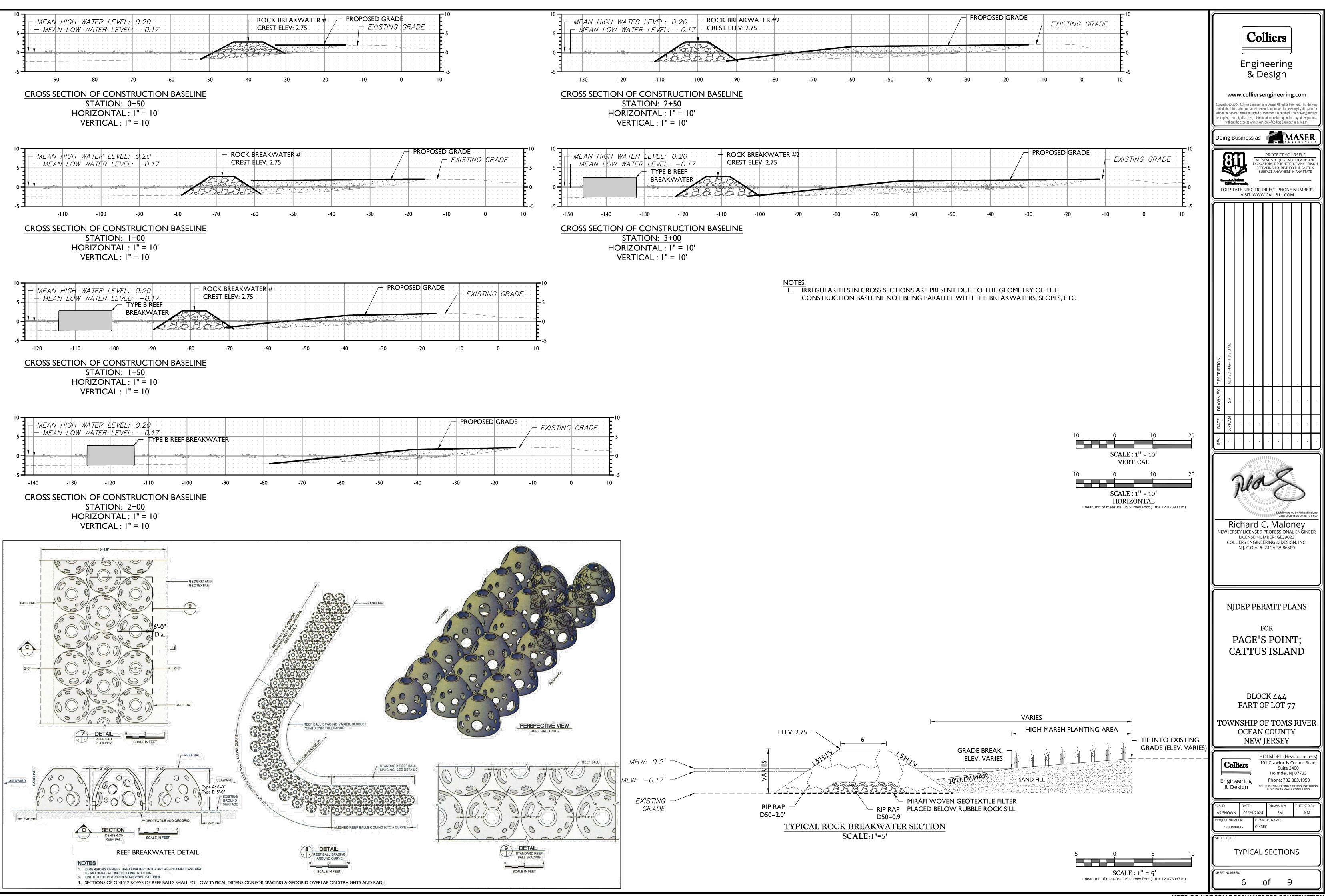




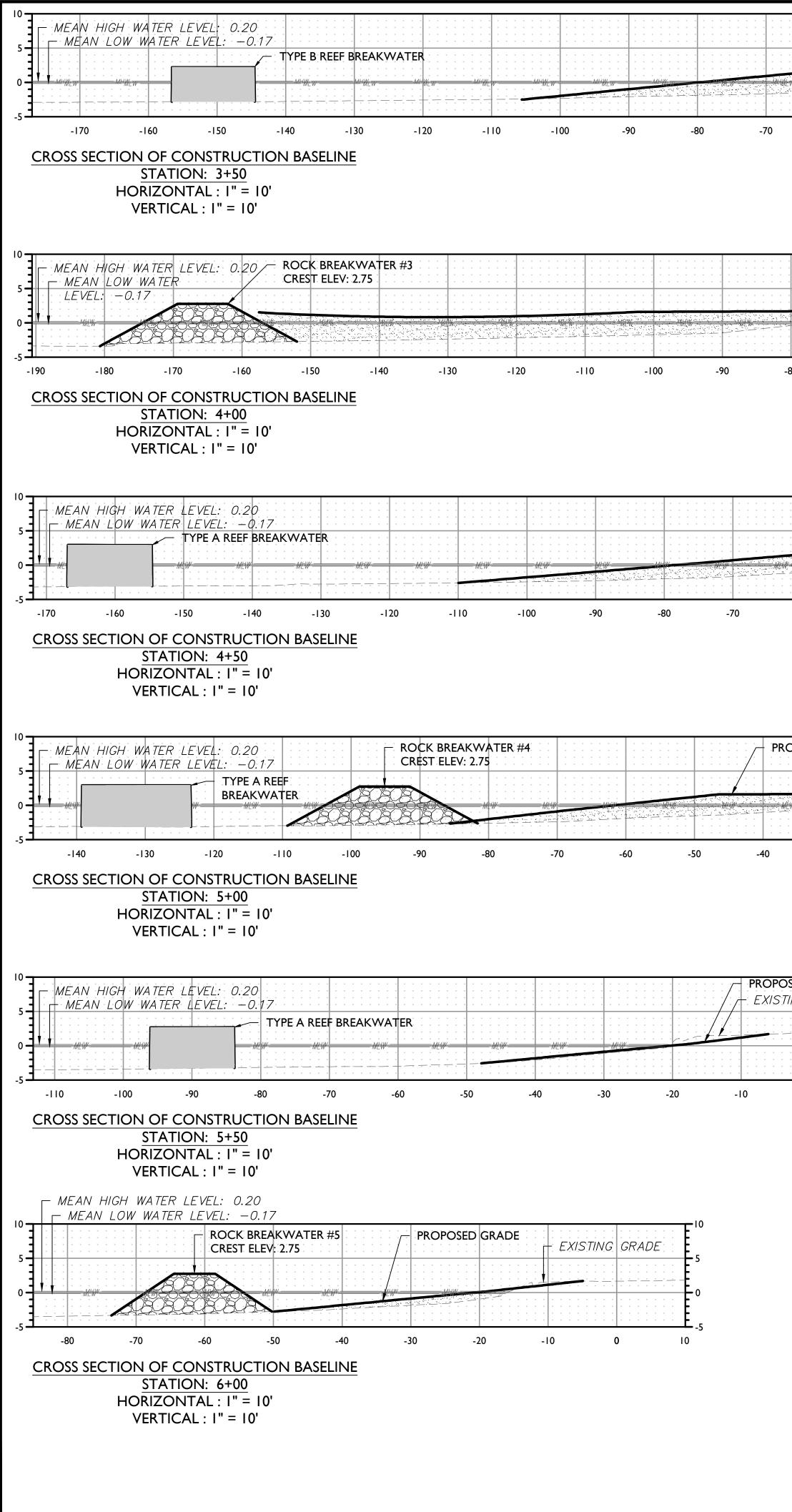
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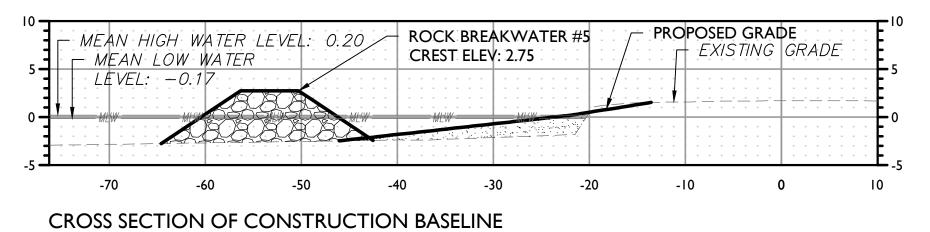
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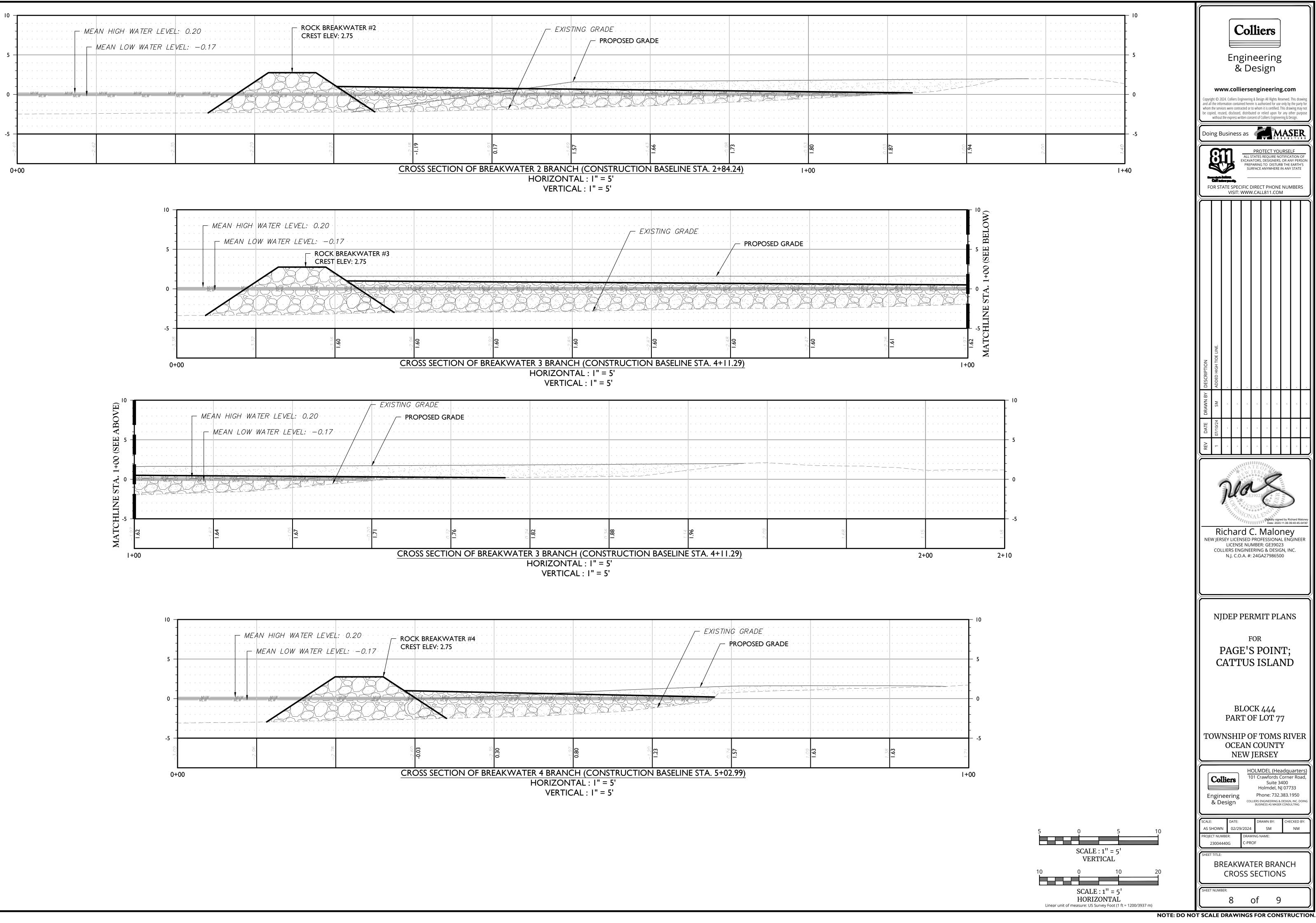
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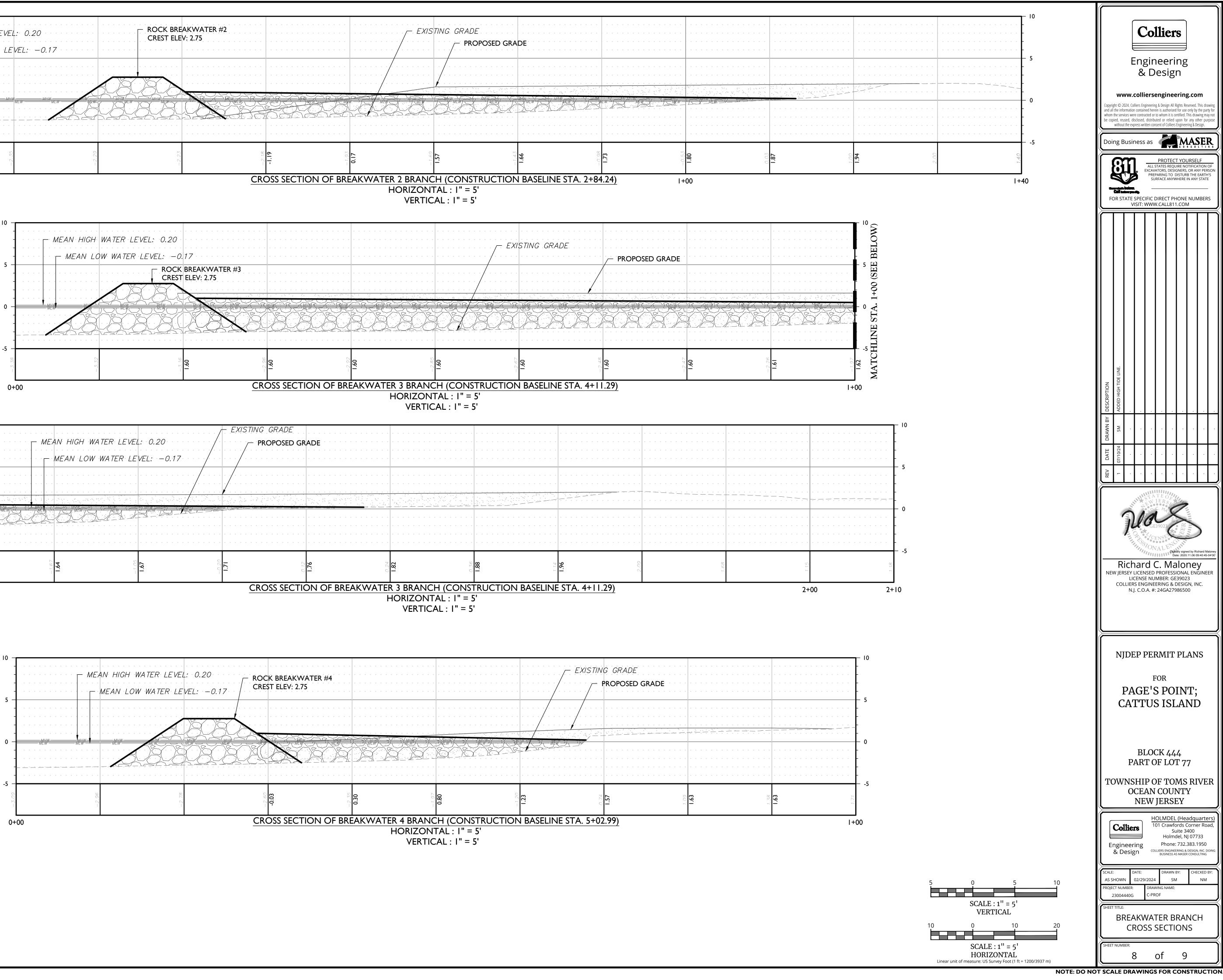


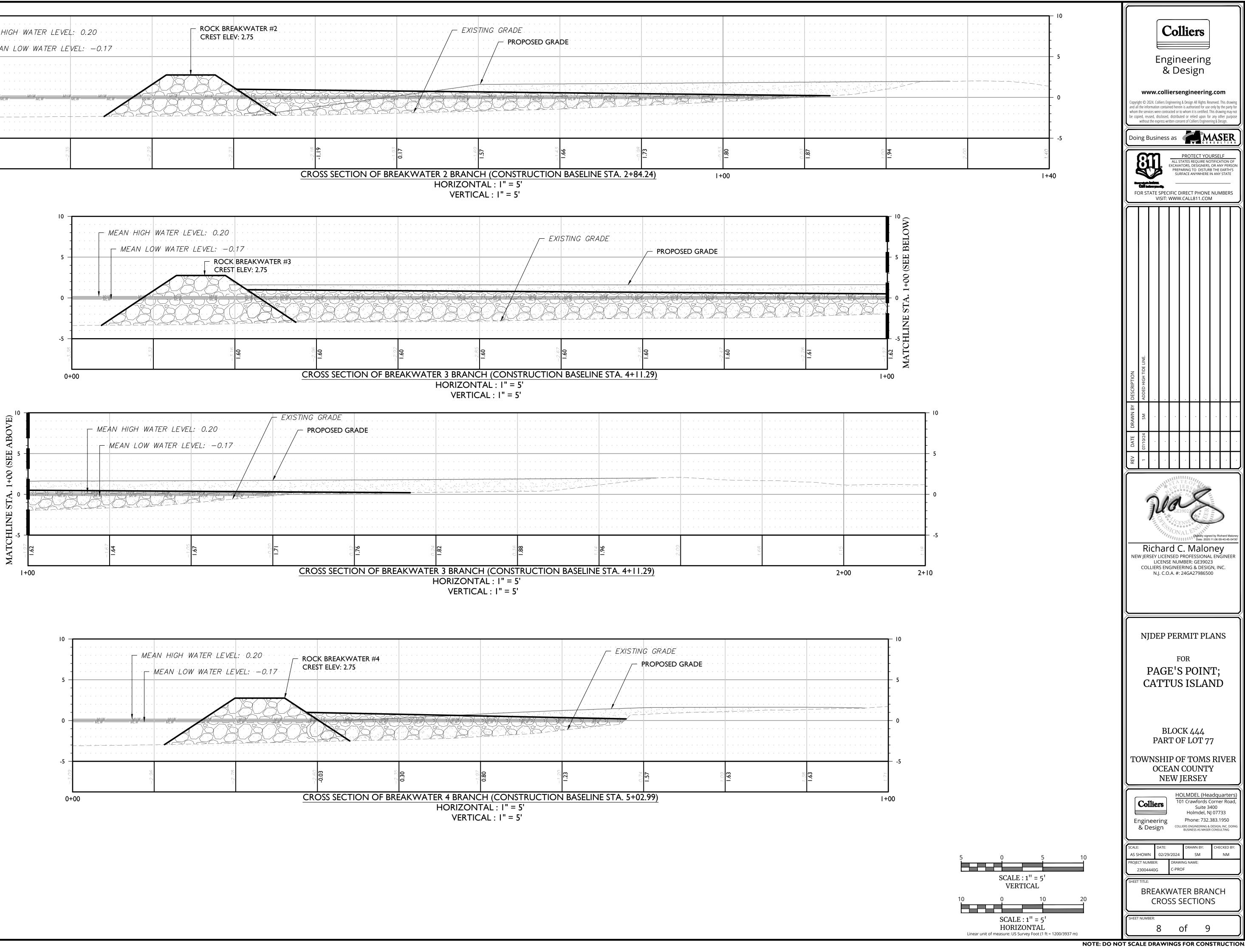
STATION: 6+50 HORIZONTAL : I" = 10' VERTICAL : 1" = 10'

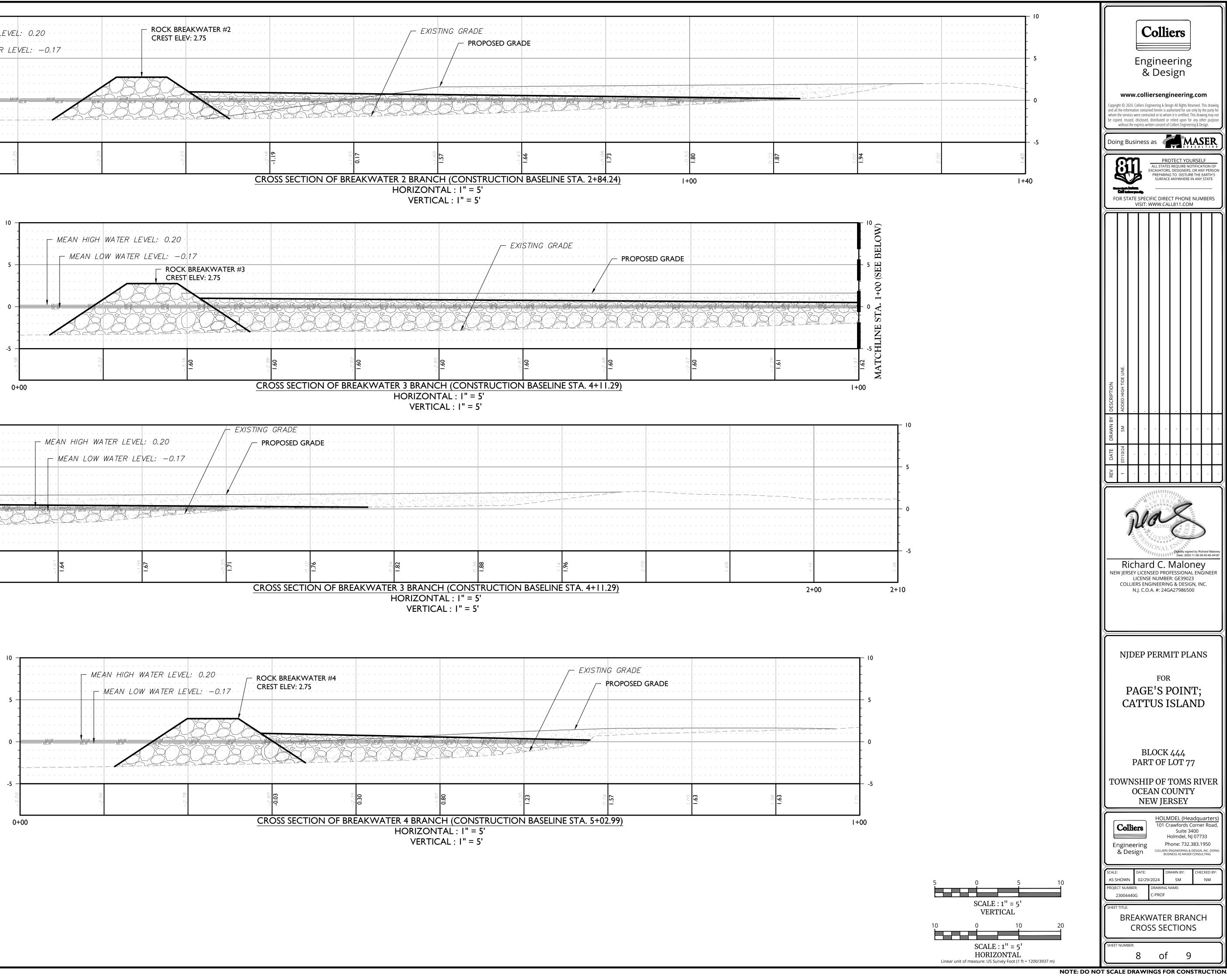
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	Doing Business as
	PROTECT YOURSELF ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE
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	NJDEP PERMIT PLANS FOR PAGE'S POINT; CATTUS ISLAND
	BLOCK 444 PART OF LOT 77 TOWNSHIP OF TOMS RIVER OCEAN COUNTY NEW JERSEY
	Colliers HOLMDEL (Headquarters) Engineering 101 Crawfords Corner Road, Suite 3400 Holmdel, NJ 07733 Phone: 732.383.1950 Colliers Engineering & Design Colliers Engineering & Design Colliers Engineering & Design
	SCALE: DATE: DRAWN BY: CHECKED BY: AS SHOWN 02/29/2024 SM NM PROJECT NUMBER: DRAWING NAME: 23004440G C-XSEC
SCALE : 1" = 10' VERTICAL 0 10 20	SHEET TITLE: TYPICAL SECTIONS
SCALE : 1" = 10' HORIZONTAL Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)	SHEET NUMBER: 7 of 9

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.









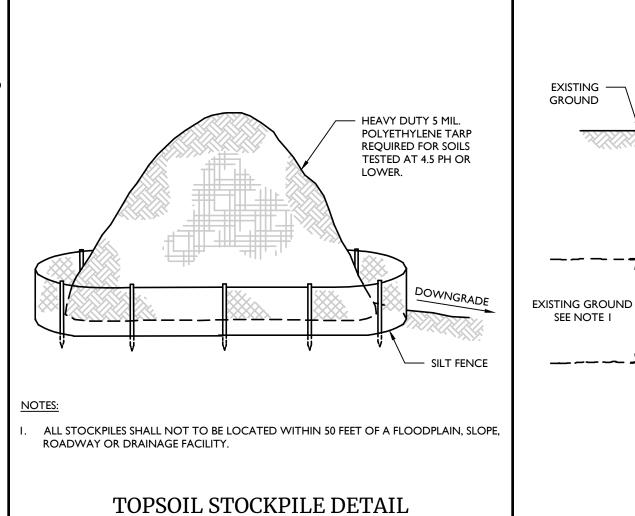
OCEAN COUNTY SOIL CONSERVATION DISTRICT NOTES

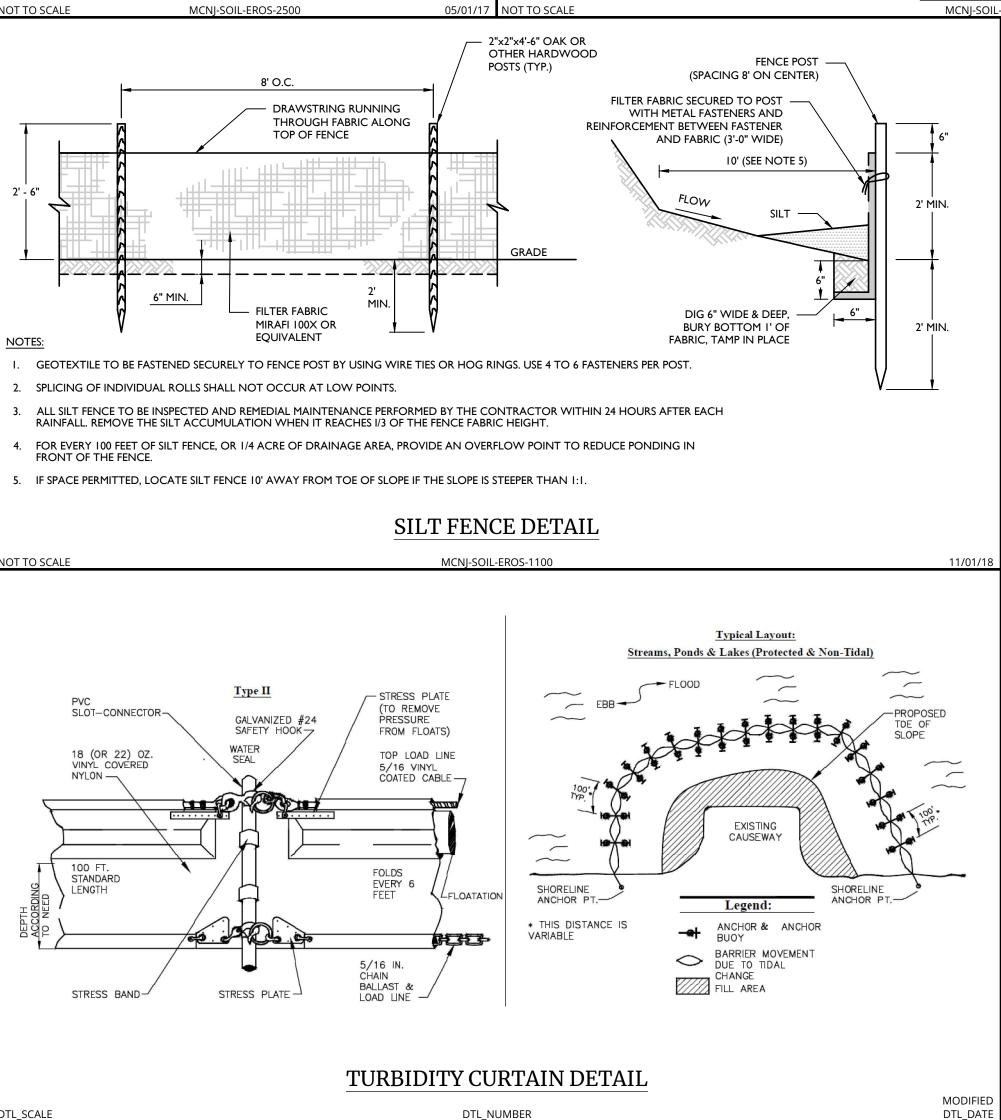
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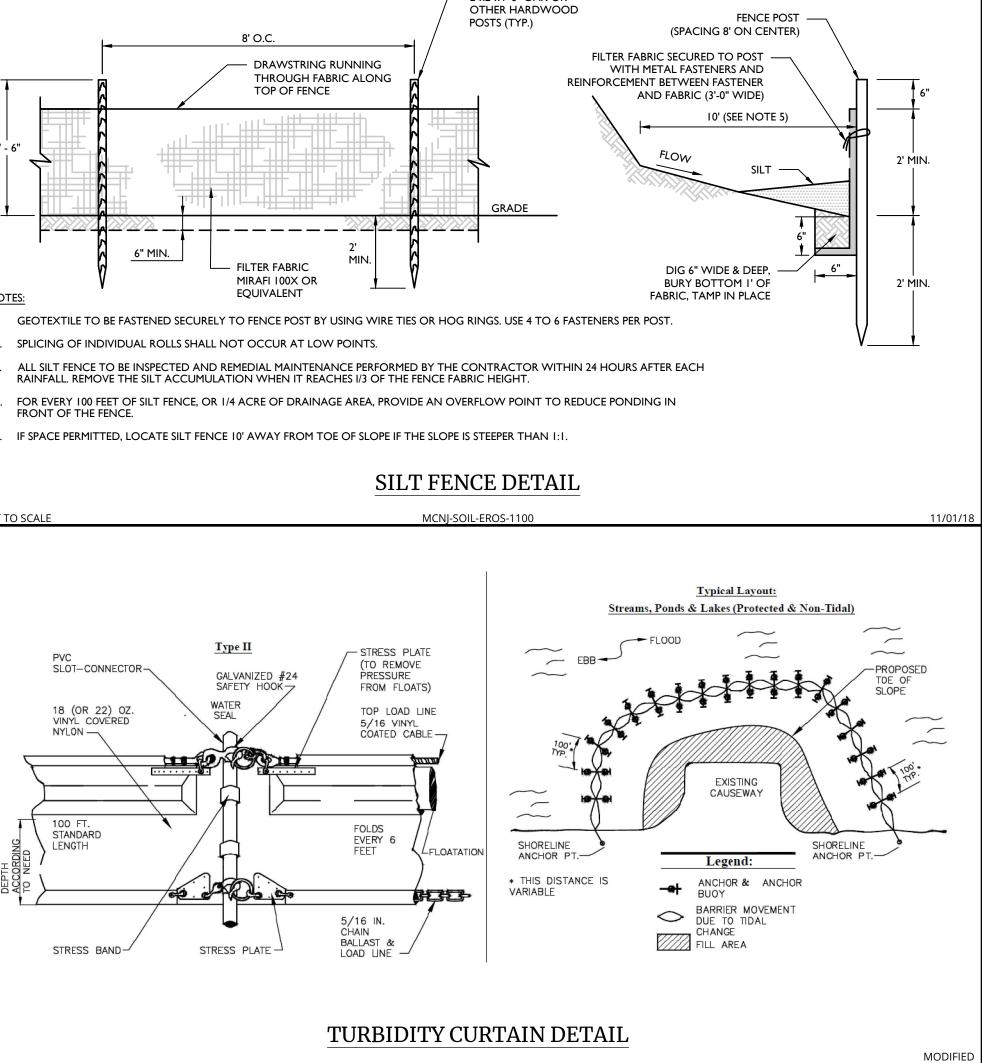
06/01/

- THE OCEAN COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY LAND DISTURBANCE.
- ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR 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. THE REVISED PLANS MUST MEET ALL CURRENT "THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY", 7TH EDITION, JANUARY 2014, REVISED JULY 2017. LINK TO 2014 STANDARDS: http://www.state.nj.us/agriculture/divisions/anr/nrc/njerosion.html
- N.I.S.A 4:24-39 ET SEQ. REQUIRES THAT NO CERTIFICATES OF OCCUPANCY BE ISSUED BEFORE THERE HAS BEEN COMPLIANCE WITH PROVISIONS OF A CERTIFIED PLAN FOR PERMANENT MEASURES. ALL SITE WORK, AND ALL WORK AROUND INDIVIDUAL LOTS IN SUBDIVISIONS, MUST BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
- ANY STOCKPILES OR 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 WITHIN 14 DAYS, AT A RATE OF 2 TO 2 1/2 TONS PER ACRE, ACCORDING TO STATE STANDARD FOR STABILIZATION WITH MULCH ONLY.
- IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL NOT TO SCALE AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF I 1/2 TO 2 TONS PER ACRE, ACCORDING TO 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 PRELIMINARY GRADING.
- ANY STEEP SLOPES (3:1 OR GREATER) OR ANY EXISTING ROADWAYS RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION CONTINUES.
- THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A STONE PAD USING CLEAN CRUSHED ANGULAR STONE (ASTM C-33, SIZE No. 2 OR 3) AT ALL CONSTRUCTION DRIVEWAYS WHERE VEHICLES WILL ACCESS PAVED ROADWAYS FROM UNPAVED AREAS OF THE SITE.
- ALL SEDIMENT WASHED, DROPPED, SPILLED, OR TRACKED ONTO ROADWAYS (PUBLIC OR PRIVATE) OR OTHER IMPERVIOUS SURFACES WILL BE REMOVED IMMEDIATELY.
- PERMANENT VEGETATION IS TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. AT THE TIME OF THE FINAL INSPECTION, YOU ARE REQUIRED TO PROVIDE CONFIRMATION THAT THE PROPER TYPE AND AMOUNT OF SEED, LIME AND FERTILIZER HAVE BEEN USED FOR PERMANENT STABILIZATION WORK. STRAW MULCH IS REQUIRED ON ALL SEEDING.
- 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 COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
- 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 COVERED WITH A MINIMUM OF TWELVE (12) INCHES OF SOIL HAVING A PH OF 5 OR MORE PRIOR TO SEEDBED PREPARATION. AREAS WHERE TREES OR SHRUBS NOT TO SCALE ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF TWENTY-FOUR (24) INCHES OF SOIL HAVING A PH OF 5 OR MORE.
- CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL. CONDUIT OUTLET PROTECTION IS NOT REQUIRED IN BASINS ACTING AS SEDIMENT BASINS DURING CONSTRUCTION.
- 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.
- 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.
- 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. THE DISTRICT RESERVES THE RIGHT TO DETERMINE WHEN CERTIFICATION OF A NEW AND SEPARATE SOIL EROSION AND SEDIMENT CONTROL PLAN WILL BE REQUIRED FOR THESE ACTIVITIES.
- ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE #6. STOCKPILES SHOULD BE SITUATED SO AS TO NOT OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE.
- . 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.

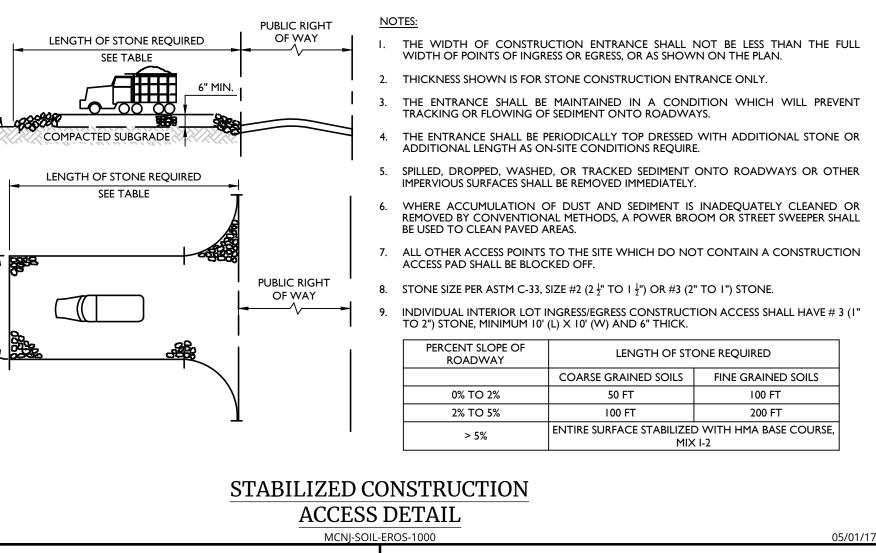
OCEAN COUNTY SOIL CONSERVATION DISTRICT 714 LACEY ROAD, FORKED RIVER, NJ 08731, (609) 971-7002, FAX: (609) 971-3391, EMAIL: INFO@SOILDISTRICT.ORG. VERSION: FEBRUARY 19, 2019











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