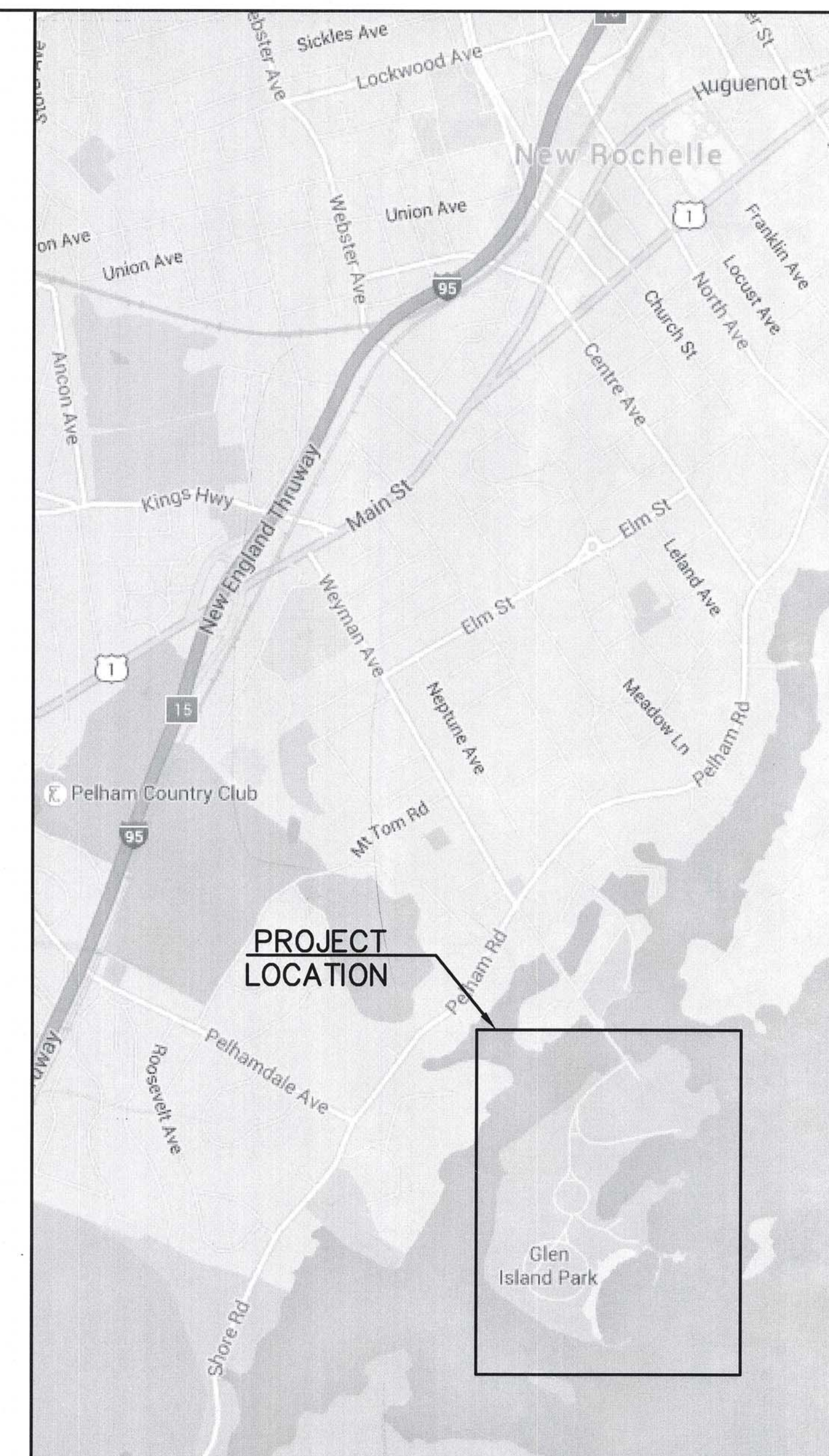



<u>SHEET NO.</u>	<u>SHEET TITLE</u>	<u>DPW FILE NO.</u>
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15 of 34	LOCATION 2-1 SEAWALL STA. 0+00 TO STA. 2+50 CROSS SECTIONS	5-18-G-113
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17 of 34	LOCATION 2-1 SEAWALL STA. 6+00 TO STA. 7+33 CROSS SECTIONS	5-18-G-115
18 of 34	LOCATION 2-2 SEAWALL STA. 0+00 TO STA. 1+52 CROSS SECTIONS	5-18-G-116
19 of 34	LOCATION 3- SEAWALL STA. 0+00 TO STA. 1+50	5-18-G-117
20 of 34	LOCATION 3- SEAWALL STA. 1+50 TO STA. 3+25	5-18-G-118
21 of 34	LOCATION 3- SEAWALL STA. 3+25 TO STA. 5+75	5-18-G-119
22 of 34	LOCATION 3- SEAWALL STA. 5+75 TO STA. 7+20	5-18-G-120
23 of 34	LOCATION 3- SEAWALL STA. 7+20 TO STA. 9+50	5-18-G-121
24 of 34	LOCATION 3- SEAWALL STA. 9+50 TO STA. 10+62	5-18-G-122
25 of 34	LOCATION 3- SEAWALL STA. 0+00 TO STA. 2+50 CROSS SECTIONS	5-18-G-123
26 of 34	LOCATION 3- SEAWALL STA. 3+00 TO STA. 5+50 CROSS SECTIONS	5-18-G-124
27 of 34	LOCATION 3- SEAWALL STA. 6+00 TO STA. 7+00 CROSS SECTIONS	5-18-G-125
28 of 34	LOCATION 3- SEAWALL STA. 7+50 TO STA. 9+50 CROSS SECTIONS	5-18-G-126
29 of 34	LOCATION 3- SEAWALL STA. 10+00 TO STA. 10+62 CROSS SECTIONS	5-18-G-127
30 of 34	TYPICAL SEAWALL SECTIONS A-A TO D-D	5-18-G-128
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34 of 34	STAGING PLAN	5-18-G-132



LOCATION MAP
SCALE: N.T.S.

		CONSULTANT INFORMATION <div style="font-size: 4em; float: left; margin-right: 10px;">b</div> BOSWELL ENGINEERING <hr/> ENGINEERS — SURVEYORS — PLANNERS — SCIENTISTS 330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606 TEL.: (201) 641-0770 • FAX: (201) 641-1831 N.J. CERTIFICATE OF AUTHORIZATION NO. 246A27958000	
REVISION	DATE	MADE	APP'D
		REVISION	
RECORD DRAWING CERTIFICATION			
<input type="checkbox"/> AS BUILT — CHANGES AS NOTED <input type="checkbox"/> AS BUILT — NO CHANGES			
CONTRACTOR		PROJECT COORDINATOR	
NAME _____		NAME _____	
SIGNATURE _____		SIGNATURE _____	
TITLE _____ DATE _____		TITLE _____ DATE _____	
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 15—531	SHEET NUMBER 01
		SCALE: AS NOTED DATE: MAY, 2018	
SUPERSTORM SANDY REHABILITATION GLEN ISLAND PARK SEAWALLS AND PAVILIONS NEW ROCHELLE, NEW YORK TITLE SHEET AND LIST OF DRAWINGS		SHEET NO. 1 OF 34 DPW FILE NO. 5-18-T-99	REV NO.

- DESIGN SPECIFICATIONS: US ARMY CORPS OF ENGINEERS DESIGN OF COASTAL REVETMENTS, SEAWALLS AND BULKHEADS.
2. CONSTRUCTION WORK SHALL BE IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS" DATED MAY 1, 2008 WITH CURRENT ADDITIONS AND MODIFICATIONS. PAY ITEMS SHALL BE IN ENGLISH UNITS.
3. DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS FOR WHICH NO SCALE IS SHOWN ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.
4. ALL SHOP DRAWINGS SUBMITTED FOR THIS PROJECT SHALL BE IN U.S. CUSTOMARY UNITS.
5. THE COST OF WATER USED FOR COMPACTION OF SELECT FILL ITEMS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203.07 - SELECT GRANULAR FILL.
6. THE COST OF ALL JOINT MATERIAL SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS ITEMS OF THE CONTRACT, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
7. DIMENSIONS FOR THICKNESSES OF STEEL ROLLED ANGLE SHAPES AND STRUCTURAL TUBING ARE SHOWN ACCORDING TO THE AISC MANUAL.
8. UNLESS OTHERWISE INDICATED ON THE PLANS, WORK TO BE PERFORMED UNDER THIS CONTRACT DOES NOT REQUIRE THE DISTURBING, DESTRUCTION OR REMOVAL OF ANY KNOWN MATERIALS CONTAINING ASBESTOS. UNLESS OTHERWISE INDICATED ON THE PLANS, IT IS THE EXPRESS INTENT OF THIS CONTRACT THAT THESE MATERIALS NOT BE DISTURBED IN ANY WAY. SHOULD THE CONTRACTOR BE FORCED TO DISTURB IN ANY WAY ANY SUCH MATERIALS, THE CONTRACTOR SHALL FIRST BE FAMILIAR WITH INDUSTRIAL CODE RULE 56 OF THE N.Y.S. DEPARTMENT OF LABOR. THE CONTRACTOR SHALL ALSO OBTAIN WRITTEN PERMISSION OF THE REGIONAL DIRECTOR OF TRANSPORTATION BEFORE PROCEEDING.
9. PAVILION FOUNDATION DESIGN CRITERIA:
GEOTECHNICAL PARAMETERS:
BASED ON REPORT BY OWES ENGINEERING INC. DATED 11/11/15
ALLOWABLE BEARING PRESSURE: $Q = 1,000 \text{ LB/FT}^2$
EFFECTIVE ANGLE OF INTERNAL FRICTION: $\phi = 32^\circ$
UNIT WEIGHT OF SOIL: $\gamma = 120 \text{ LB/FT}^3$
10. SEA WALL NOTES:
A. CONTRACTOR IS TO REUSE EXISTING STONES WHEREVER POSSIBLE.
B. STONE COLORING OF SEA WALL RECONSTRUCTION AREAS TO MATCH COLORING OF EXISTING WALL.
11. ALL PLACEMENTS OF SELECT GRANULAR FILL, ITEM 203.07, SHALL BE COMPACTED TO 95 PERCENT OF STANDARD PROCTOR MAXIMUM DENSITY.
12. COFFERDAM NOTES:
A. WHERE A COFFERDAM IS USED, THE COST OF DEWATERING THE ENTIRE EXCAVATION, REGARDLESS OF SOURCE OF WATER, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE COFFERDAM ITEM.
B. SHOULD FIELD CONDITIONS REQUIRE A CHANGE FROM THE TYPE OF COFFERDAM SYSTEM CALLED FOR ON THE PLANS, THE ENGINEER-IN-CHARGE SHALL CONTACT THE COUNTY FOR COORDINATION WITH APPROPRIATE AGENCIES TO APPROVE THE CHANGE.
C. IF MULTIPLE COFFERDAMS ARE REPLACED BY A SINGLE SYSTEM, AS PERMITTED BY THE COUNTY ENGINEER, PAYMENT SHALL BE BASED ON ALL OF THE APPLICABLE COFFERDAM ITEMS INDICATED ON THE PLANS.
D. DEWATERING OF THE COFFERDAM SHALL BE ACCOMPLISHED BY PUMPING THE WATER TO AN APPROVED UPLAND VEGETATED AREA OUTSIDE OF THE STREAMBED AS SHOWN ON THE PLANS AND/OR APPROVED BY THE E.I.C. TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL, SUCH AS STRAW BALES OR APPROVED EQUAL, MAY BE REQUIRED AS DETERMINED BY THE ENGINEER-IN-CHARGE. NO SETTLEMENT BASIN SHALL BE CONSTRUCTED.
13. DATUM
VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM (NAVD) 1988
HORIZONTAL DATUM: NORTH AMERICAN DATUM (NAD) 1983
14. 100 YEAR FLOOD LEVEL RANGES FROM 14-17 FT NAVD 1988 DEPENDING ON LOCATION. THIS IS DEFINED AS THE WATER SURFACE ELEVATION FOR A FLOOD THAT HAS A RECURRENCE INTERVAL OF 100 YEARS.
15. MEAN HIGH WATER IS ESTIMATED TO BE 3.35 FT NAVD 1988. THIS IS DEFINED AS THE HIGHEST SURFACE WATER ELEVATION LIKELY TO BE ENCOUNTERED DURING ONE CONSTRUCTION SEASON (OTHER THAN MAJOR FLOODS). IT IS ALWAYS LESS THAN THE ORDINARY HIGH WATER ELEVATION AND IT IS USUALLY AN OBSERVED ELEVATION RATHER THAN A COMPUTED ONE.
16. MEAN LOW WATER IS ESTIMATED TO BE -3.93 FT NAVD 1988. THIS WATER ELEVATION IS THE NORMAL LOW WATER ELEVATION PREVALENT DURING ONE CONSTRUCTION SEASON FOR MORE THAN 25% OF THE TIME. IT IS AN OBSERVED ELEVATION RATHER THAN A COMPUTED ONE.

17. CONCRETE
- A. ALL CONCRETE WORK SHALL CONFORM WITH THE REQUIREMENTS OF ACI 318, LATEST EDITION.
- B. ALL CONCRETE SHALL HAVE MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI, UNLESS OTHERWISE NOTED. CONCRETE SHALL BE AIR-ENTRAINED IN ACCORDANCE WITH ACI STANDARDS. MAXIMUM SLUMP SHALL BE 4 INCHES. ALL CONCRETE SHALL BE NORMAL WEIGHT, UNLESS OTHERWISE NOTED.
18. REINFORCEMENT STEEL:
- A. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A615M (GRADE 60).
- B. ALL REINFORCING STEEL LAP LENGTHS SHALL BE 40 BAR DIAMETERS UNLESS OTHERWISE NOTED.
- C. ALL REINFORCING STEEL CLEAR COVER SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
- CONCRETE CAST AGAINST EARTH 3"
 - ALL OTHER CAST-IN-PLACE CONCRETE 2"
19. SHOP DRAWING SUBMITTALS ARE REQUIRED FOR THE PEDESTRIAN RAILING ITEMS W607.60 AND W607.61.
20. EXTERIOR SURFACES OF NEW CONCRETE WALLS AND SLABS SHALL BE SEALED.
21. REMOVAL NOTES:
- A. EXISTING SUBSTRUCTURE SHALL BE REMOVED WITHIN THE LIMITS SHOWN ON THE PLANS UNDER ITEM 202.19.
- B. DEMOLITION AND REMOVAL WORK SHALL PROCEED IN A MANNER WHICH PREVENTS DAMAGE TO THE EXISTING STRUCTURES. ANY DAMAGE TO THE EXISTING STRUCTURES TO REMAIN SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- C. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF SUBSECTION 202-3.01 GENERAL AND SAFETY REQUIREMENTS. A REMOVAL PLAN, SIGNED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK, SHALL BE SUBMITTED TO THE ENGINEER THIRTY (30) DAYS PRIOR TO BEGINNING THE DEMOLITION.
- D. ANY DEBRIS OR EXCESS MATERIALS FROM CONSTRUCTION OF THIS PROJECT SHALL BE IMMEDIATELY AND COMPLETELY REMOVED FROM ALL TIDAL WETLAND AREAS TO AN APPROPRIATE UPLAND AREA FOR DISPOSAL.
- E. ALL EXCAVATION BELOW MEAN HIGH WATER SHALL BE PERFORMED DURING LOW TIDE UNLESS THE WORK AREA IS ISOLATED FROM WATER.
22. RECORD PLANS FOR THESE STRUCTURES ARE NOT AVAILABLE.
23. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE SAFETY CODES. APPLICABLE SAFETY CODES SHALL MEAN THE LATEST EDITION INCLUDING ANY AND ALL AMENDMENTS, REVISIONS AND ADDITIONS THERETO TO THE FEDERAL DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION'S "OCCUPATIONAL SAFETY AND HEALTH STANDARDS" (OSHA), AND APPLICABLE SAFETY, HEALTH REGULATIONS AND BUILDING CODES FOR CONSTRUCTION IN THE STATE OF NEW YORK.
24. RECONSTRUCTION NOTES:
- A. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT, DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF RECONSTRUCTION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. SHOULD CONDITIONS DIFFER FROM THOSE DETAILED IN THESE DOCUMENTS, THE CONTRACTOR IS TO OBTAIN THE ENGINEERS' APPROVAL FOR ANY PROPOSED MODIFICATION OF WORK BEFORE PROCEEDING.
- B. THE CONTRACTOR SHALL VERIFY DIMENSIONS NECESSARY FOR THE PROPER FIT OF STEEL RAILING PRIOR TO THE FABRICATION OF THE STEEL. THE COST OF FIELD VERIFYING DIMENSIONS SHALL BE INCLUDED IN THE PRICE BID FOR RAILING ITEMS.
- C. THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE COUNTY, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE OR WHICH ARE TO REMAIN THE PROPERTY OF THE COUNTY, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
- D. WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THOSE ITEMS.
- E. DURING REMOVAL OPERATIONS, THE CONTRACTOR SHALL NOT BE ALLOWED TO DROP WASTE CONCRETE, DEBRIS AND OTHER MATERIAL TO THE WATER SURROUNDING SEA WALLS OR PAVILIONS EXCEPT WHERE THE PLANS SPECIFICALLY PERMIT THE DROPPING OF MATERIAL. PLATFORMS, NETS, SCREENS OR OTHER

F. ALL MATERIAL FALLING ON THE AREA BELOW AND ADJACENT TO THE SEA WALLS AND PAVILIONS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AT NO COST TO THE COUNTY.

G. THE COST OF FURNISHING, INSTALLING, MAINTAINING, REMOVING AND DISPOSING OF ALL PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE APPROPRIATE ITEMS OF THE CONTRACT.

H. FOR THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL GIVE THE ENGINEER AT LEAST 24 HOURS NOTICE PRIOR TO PERFORMING WORK ON SITE. THE CONTRACTOR WILL NOT BE ALLOWED TO PERFORM WORK ON SITE AT ANY TIME NOT INDICATED ON THE APPROVED SCHEDULE, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

CONDUIT CAUTION NOTE:

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT CONDUITS MAY BE PRESENT IN THE SIDEWALKS. THEIR EXISTENCE AND LOCATIONS SHALL BE FIELD VERIFIED. IF CONDUITS ARE PRESENT AND ARE ENCOUNTERED DURING CONSTRUCTION OPERATIONS, CARE SHALL BE EXERCISED NOT TO DAMAGE CONDUITS, EXPANSION COUPLINGS, OR CONTENTS OF CONDUITS. ANY DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER, AT NO COST TO THE COUNTY.

27. **WATERWAY PROTECTION NOTE:**
DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT OPERATIONS IN SUCH A MANNER AS TO PREVENT OR REDUCE TO A MINIMUM ANY DAMAGE TO THE LONG ISLAND SOUND FROM POLLUTION BY DEBRIS, SEDIMENT, OR OTHER FOREIGN MATERIAL, OR FROM MANIPULATION OF EQUIPMENT AND/OR MATERIALS IN OR NEAR SUCH WATERWAYS. THE CONTRACTOR SHALL NOT RETURN DIRECTLY TO THE WATERWAY ANY WATER WHICH HAS BEEN USED FOR WASH PURPOSES OR OTHER SIMILAR OPERATIONS WHICH CAUSE THIS WATER TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL, OR OTHER IMPURITIES. IF THE CONTRACTOR USES WATER FROM THE LONG ISLAND SOUND, THE CONTRACTOR SHALL CONSTRUCT AN INTAKE OR TEMPORARY DAM REQUIRED TO PROTECT AND MAINTAIN WATER RIGHTS AND TO SUSTAIN FISH LIFE DOWNSTREAM.

29. DIMENSION MASONRY:
- A. RINGSTONE, QUOINS, COPINGS AND OTHER STONES, IF SO DESIGNATED, SHALL BE DIMENSION MASONRY.
 - B. ALL JOINTS FOR DIMENSION MASONRY SHALL BE 1/2 INCH THICKNESS.
 - C. FINISH OF STONE MASONRY SHALL BE A ROUGH OR NATURAL FINISH.

31. GENERAL CONTRACTOR SHALL VERIFY ALL CONDITIONS AND CHECK ALL MEASUREMENTS ON THE JOB AND SHALL BE RESPONSIBLE FOR SAME.

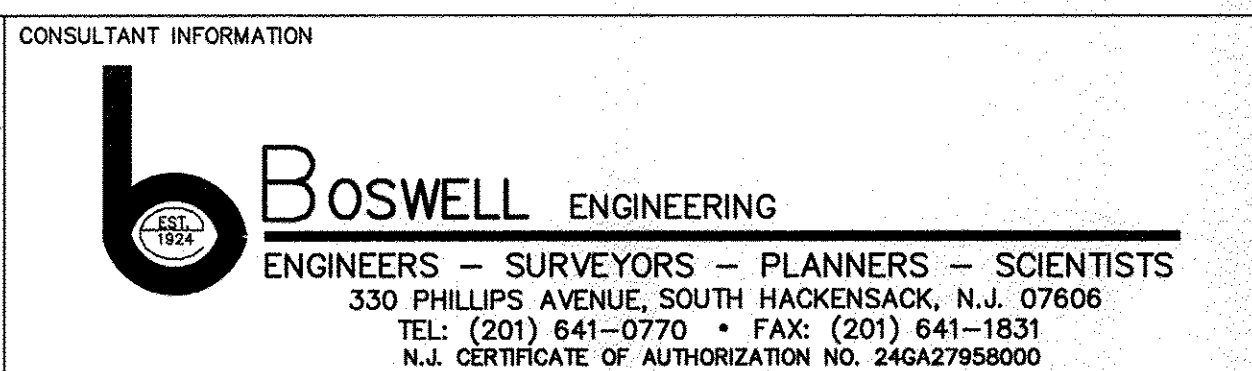
33. NO ACTIVITY MAY USE UNSUITABLE MATERIAL (E.G. TRASH, DEBRIS, ASPHALT, ETC.). MATERIAL USED FOR CONSTRUCTION MUST BE FREE FROM TOXIC POLLUTANTS IN TOXIC AMOUNTS.

34. THERE SHALL BE NO UNREASONABLE INTERFERENCE WITH NAVIGATION AS A RESULT OF THE WORK SHOWN ON PLANS.

N. COMPACT JOINTS BY TAMPING BACK WITH A STIFF NYLON BRUSH AFTER MORTAR HAS BEGUN HARDENING (AFTER APPROXIMATELY 12 HOURS).

38. CONSTRUCTION ACCESS:
THE CONTRACTOR SHALL PERFORM ALL WORK WITH HEAVY MACHINERY AND EQUIPMENT FOR THE RESTORATION OF THE SEAWALLS AT LOCATIONS 2 & 3 FROM THE WATER SIDE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ACCESS REQUIREMENTS FOR ANY WORK TO BE PERFORMED FROM BARGES.

42. UTILITY NOTES
- A. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF THE CONTRACT. ANY DAMAGE DONE TO EXISTING UTILITIES AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY HIM AT NO COST TO THE OWNER.
- B. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE UTILITY COMPANIES TO PROTECT AND MAINTAIN THEIR FACILITIES.



IN CHARGE OF J. R. VALENTIN, P.E.
CHECKED BY J. R. VALENTIN, P.E.
MADE BY C. LINO

REVISION	DATE	MADE	APP'D	REVISION

☐ AS BUILT - CHANGES AS NOTED
☐ AS BUILT - NO CHANGES

SIGNATURE _____

SUPERSTORM SANDY REHABILITATION
GLEN ISLAND PARK SEAWALLS AND PAVILIONS
NEW ROCHELLE, NEW YORK
GENERAL NOTES

DPW FILE NO.	REV. NO.
5-18-G-100	0

DISTRIBUTION OF QUANTITIES			
ITEM NUMBER	ITEM DESCRIPTION	QUANTITY	UNIT
699.040001	MOBILIZATION	1	L.S.
	MISCELLANEOUS ADDITIONAL WORK	1	F.L.S.
	TESTING OF MATERIALS AND FIELD TESTING EQUIPMENT	1	F.L.S.
LOCATION 1			
EAST PAVILION			
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	40	C.Y.
209.13	SILT FENCE-TEMPORARY	150	L.F.
304.11	SUBBASE COURSE, TYPE 1	14	C.Y.
553.030001	TEMPORARY WATER DIVERSION STRUCTURE	1	EACH
556.0203	GALVANIZED BAR REINFORCEMENT FOR CONCRETE STRUCTURES	5	LBS
W559.16960025	PROTECTIVE SEALING OF STRUCTURAL CONCRETE	1,300	S.F.
W560.04030011	INSTALL NEW 4" THICK STONE COPING	21	L.F.
W560.04030013	RESET 8" THICK STONE COPING	7	L.F.
W560.04030016	REMOVE AND STORE MORTARED FIELD STONE PILASTER	1	C.Y.
560.05	RUBBLE STONE MASONRY	18	C.F.
560.08	TUCK POINTING	480	L.F.
582.07	REMOVAL OF STRUCTURAL CONCRETE-REPLACEMENT WITH VERTICAL AND OVERHEAD PATCHING MATERIAL	300	S.F.
620.04	STONE FILLING (MEDIUM)	106	C.Y.
WEST PAVILION			
202.19	REMOVAL OF SUBSTRUCTURES	90	C.Y.
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	210	C.Y.
209.13	SILT FENCE-TEMPORARY	150	L.F.
304.11	SUBBASE COURSE, TYPE 1	13	C.Y.
553.030001	TEMPORARY WATER DIVERSION STRUCTURE	1	EACH
555.0104	FOOTING CONCRETE, CLASS A	25	C.Y.
555.0105	CONCRETE FOR STRUCTURES, CLASS A	55	C.Y.
W555.01050001	CONCRETE FOR STRUCTURES, CLASS A, PILASTER CORE	17	C.Y.
556.0203	GALVANIZED BAR REINFORCEMENT FOR CONCRETE STRUCTURES	12,000	LBS
W559.16960025	PROTECTIVE SEALING OF STRUCTURAL CONCRETE	2,300	S.F.
W560.04030010	REMOVE, STORE AND RESET 4" THICK STONE COPING	28	L.F.
W560.04030011	INSTALL NEW 4" THICK STONE COPING	50	L.F.
W560.04030012	REMOVE, DISPOSE AND INSTALL NEW 8" THICK CAP	17	L.F.
W560.04030016	REMOVE AND STORE MORTARED FIELD STONE PILASTER	17	C.Y.
W560.04030017	INSTALL MORTARED FIELD STONE VENEER	490	S.F.
620.04	STONE FILLING (MEDIUM)	100	C.Y.
LOCATION 2			
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	501	C.Y.
203.07	SELECT GRANULAR FILL	501	C.Y.
209.13	SILT FENCE-TEMPORARY	200	L.F.
553.020001	COFFERDAMS (TYPE 1)	1	EACH
560.05	RUBBLE STONE MASONRY	10	C.F.
560.06	RUBBLE STONE MASONRY LAID DRY	200	C.F.
W560.04030010	REMOVE AND RESET 4" THICK STONE COPING	152	L.F.
W560.05010014	REMOVE AND RESET MORTARED FIELD STONE WALL	28	C.Y.
W560.06010015	REMOVE AND RESET DRY-LAID STONE WALL	15	C.Y.
W560.07020018	REMOVE, DISPOSE AND REPLACE PRECAST CONCRETE COPING	225	L.F.
W568.94	REMOVE AND REPLACE PEDESTRIAN RAILING ON SEAWALL	130	L.F.
W568.95	REMOVE AND REPLACE PEDESTRIAN RAILING	152	L.F.
576.10	DRAINAGE TROUGH	350	L.F.
583.03	REMOVAL OF STRUCTURAL CONCRETE - REPLACEMENT WITH SHOTCRETE, WITH REINFORCEMENT BAR ENCASEMENT	7,000	S.F
W604.51100010	FLEXIBLE CHECK VALVE	13	EACH
W608.103	REMOVE AND REPLACE CONCRETE SIDEWALK	84	C.Y.
W620.0601	EXTRA HEAVY STONE FILLING	2,100	C.Y.
W620.0502	REMOVE AND RESET EXISTING STONE FILLING (HEAVY)	2,900	C.Y.
620.08	BEDDING MATERIAL	350	C.Y.
W670.200201	REMOVE AND INSTALL NEW CONDUIT AND JUNCTION BOXES	1	L.S.
W670.50110101	REMOVE AND REINSTALL EXISTING LUMINAIRES	40	EACH
LOCATION 3			
201.06	CLEARING AND GRUBBING	1	L.S.
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	80	C.Y.
203.07	SELECT GRANULAR FILL	13	C.Y.
209.13	SILT FENCE-TEMPORARY	200	L.F.
553.020001	COFFERDAMS (TYPE 1)	1	EACH
560.05	RUBBLE STONE MASONRY	50	C.F.
560.06	RUBBLE STONE MASONRY LAID DRY	350	C.F.
W560.04030010	REMOVE AND RESET 4" THICK STONE COPING	190	L.F.
W560.04030011	INSTALL 4" THICK STONE COPING	40	L.F.
W560.06010015	REMOVE AND RESET DRY-LAID STONE WALL	11	C.Y.
W560.07020018	REMOVE, DISPOSE, AND REPLACE CONCRETE COPING	4	L.F.
W568.95	REMOVE AND REPLACE PEDESTRIAN RAILING	180	L.F.
583.03	REMOVAL OF STRUCTURAL CONCRETE - REPLACEMENT WITH SHOTCRETE, WITH REINFORCEMENT BAR ENCASEMENT	1,100	S.F
W604.51100010	FLEXIBLE CHECK VALVE	3	EACH
W608.103	REMOVE AND REPLACE CONCRETE SIDEWALK	13	C.Y.
610.1403	TOPSOIL-LAWNS	120	C.Y.
610.16025	TURF ESTABLISHMENT-LAWNS	60	S.Y.
W620.0601	EXTRA HEAVY STONE FILLING	460	C.Y.
W620.0502	REMOVE AND RESET EXISTING STONE FILLING (HEAVY)	1,200	C.Y.
W670.200201	REMOVE AND REINSTALL NEW CONDUIT AND JUNCTION BOXES	1	L.S.
W670.50110101	REMOVE AND REINSTALL EXISTING LUMINAIRES	18	EACH

COMPLIANCE WITH ENVIRONMENTAL PERMITS:

1. THE PERMIT CONDITIONS OUTLINED IN THESE NOTES ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR READING AND COMPLYING WITH ALL CONDITIONS STIPULATED IN THE PERMITS ISSUED BY THE REGULATORY AGENCIES. PERMITS OBTAINED INCLUDE:
USACE NAN-2017-00464
NYSDEC 3-5510-00258/00010
 3-5510-00258/00011
 3-5510-00258/00012
NYSDOS F-2017-0763
2. THE PLANS CONTAINED HEREIN WERE PREPARED IN ACCORDANCE WITH THE ENVIRONMENTAL PERMIT(S). THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE PLANS AND PERMIT(S). WORK PERFORMED BY CONTRACTOR WHICH IS FOUND NONCOMPLIANT WITH PERMIT CONDITIONS SHALL BE REMOVED BY THE CONTRACTOR AT NO ADDITIONAL COST.
3. CONTRACTOR IS RESPONSIBLE FOR CONSPICUOUSLY POSTING THE PERMIT SIGN ENCLOSED WITH THE PERMIT(S) IN A PUBLICLY ACCESSIBLE LOCATION AND MAINTAINING A COPY OF THE ENVIRONMENTAL PERMIT(S) ON SITE AT ALL TIMES.
4. NOTICE TO COMMENCE WORK: THE OWNER IS RESPONSIBLE FOR NOTIFYING THE REGULATORY AGENCIES AT LEAST 48 HOURS PRIOR TO START OF WORK. CONTRACTOR SHALL PROVIDE OWNER WITH AN INTENDED WORK COMMENCEMENT SCHEDULE PER CONTRACT REQUIREMENTS.
6. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PRECLUDE CONTAMINATION OF ANY WETLAND OR WATERWAY BY SUSPENDED SOLIDS, SEDIMENTS, FUEL, SOLVENTS, LUBRICANTS, EPOXY COATINGS, PAINTS, CONCRETE, LEACHATE OR ANY OTHER ENVIRONMENTALLY DELETERIOUS MATERIALS ASSOCIATED WITH THE PROJECT.
7. NO SITE PREPARATION WORK SHALL BE UNDERTAKEN UNTIL ALL REQUIRED EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
8. NOTICE OF PROJECT COMPLETION: THE CONTRACTOR SHALL NOTIFY THE REGULATORY AGENCIES UPON COMPLETION OF WORK.

UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF J. R. VALENTIN, P.E.
CHECKED BY J. R. VALENTIN, P.E.
MADE BY C. LINO

REVISION	DATE	MADE	APP'D

REVISION			

RECORD DRAWING CERTIFICATION

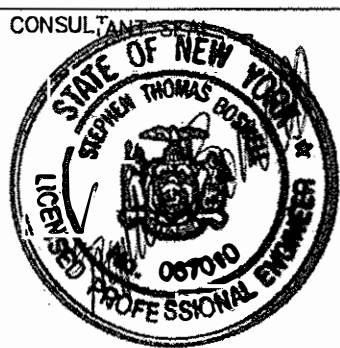
- ☐ AS BUILT - CHANGES AS NOTED
☐ AS BUILT - NO CHANGES

CONTRACTOR

NAME _____
SIGNATURE _____
TITLE _____ DATE _____

PROJECT COORDINATOR

NAME _____
SIGNATURE _____
TITLE _____ DATE _____



CONSULTANT INFORMATION



Boswell ENGINEERING
ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
TEL: (201) 641-0770 • FAX: (201) 641-1831
N.J. CERTIFICATE OF AUTHORIZATION NO. 246A27958000

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

SUPERSTORM SANDY REHABILITATION
GLEN ISLAND PARK SEAWALLS AND PAVILIONS
NEW ROCHELLE, NEW YORK
DISTRIBUTION OF QUANTITIES

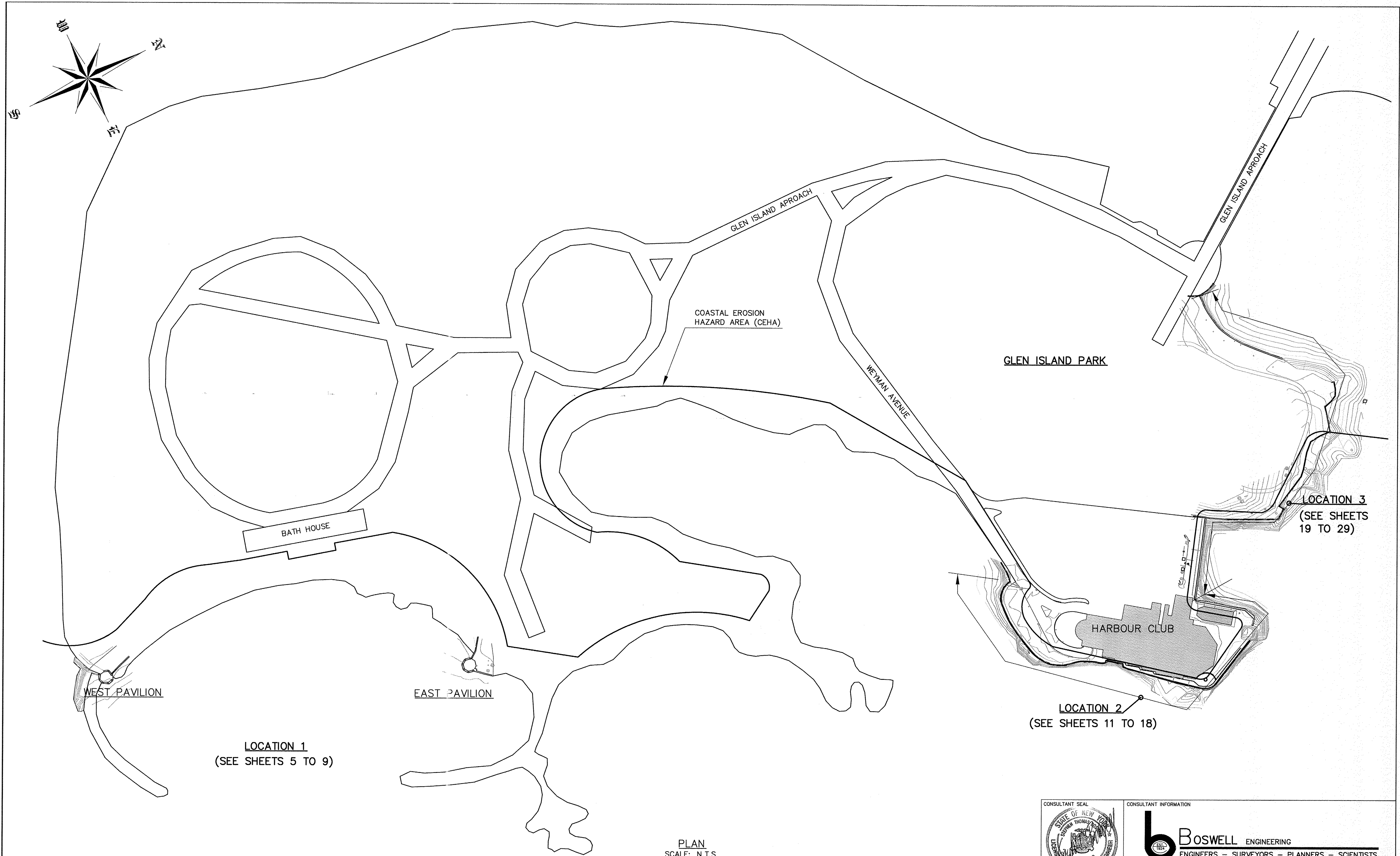
CONTRACT NUMBER	SHEET NUMBER
15-531	03

SHEET NO. 3 OF 34

SCALE: AS NOTED
DATE: MAY 2018
DPW FILE NO.

5-18-C-101

REV. NO. 0



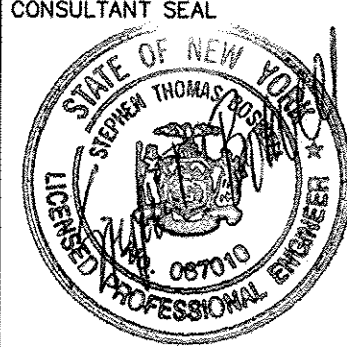

PLAN
SCALE: N.T.S.

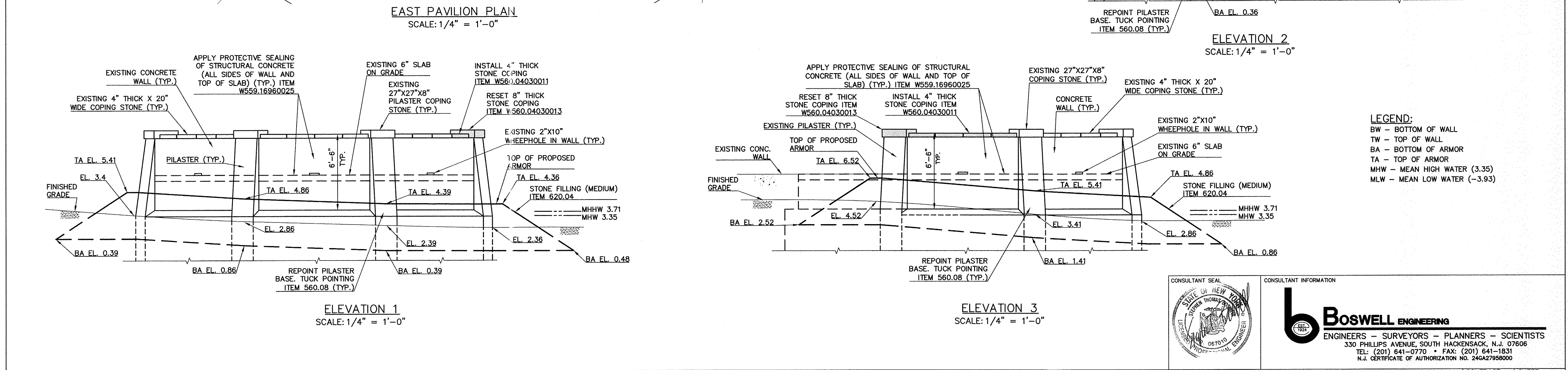
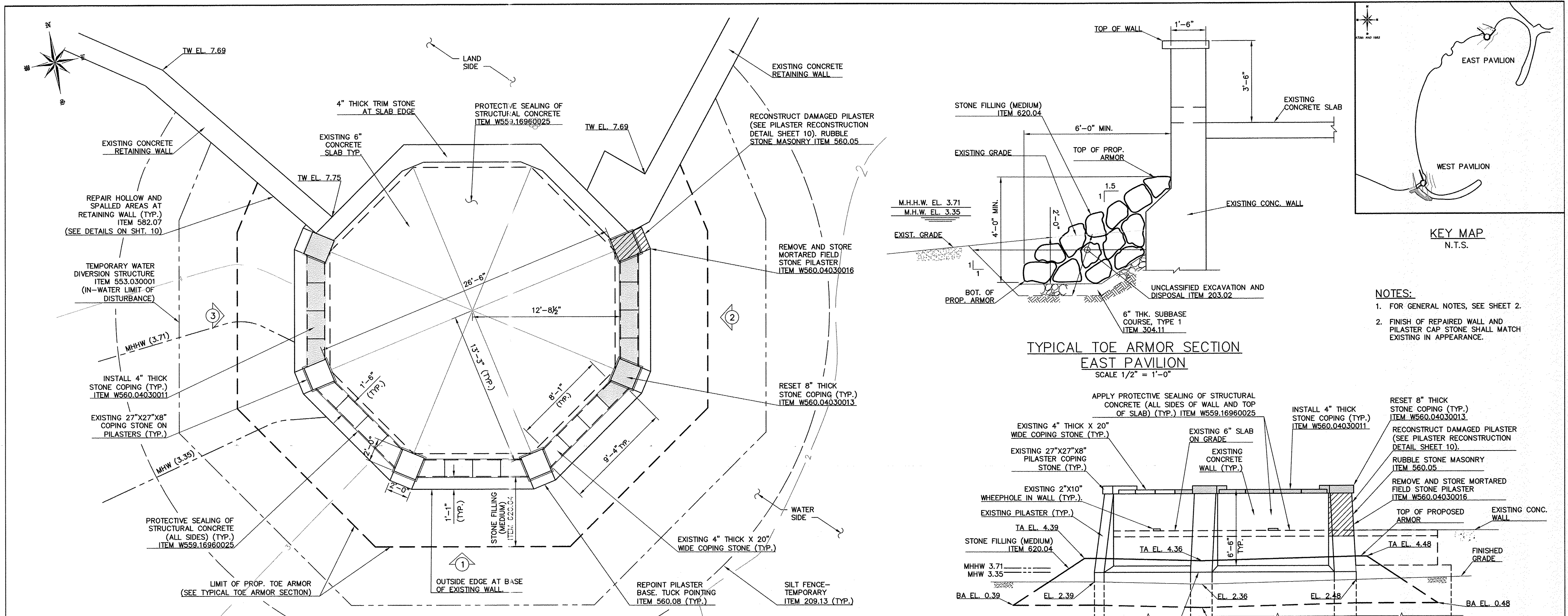
UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS
PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2
OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF J. R. VALENTIN, P.E.
CHECKED BY J. R. VALENTIN, P.E.
MADE BY C. LINO

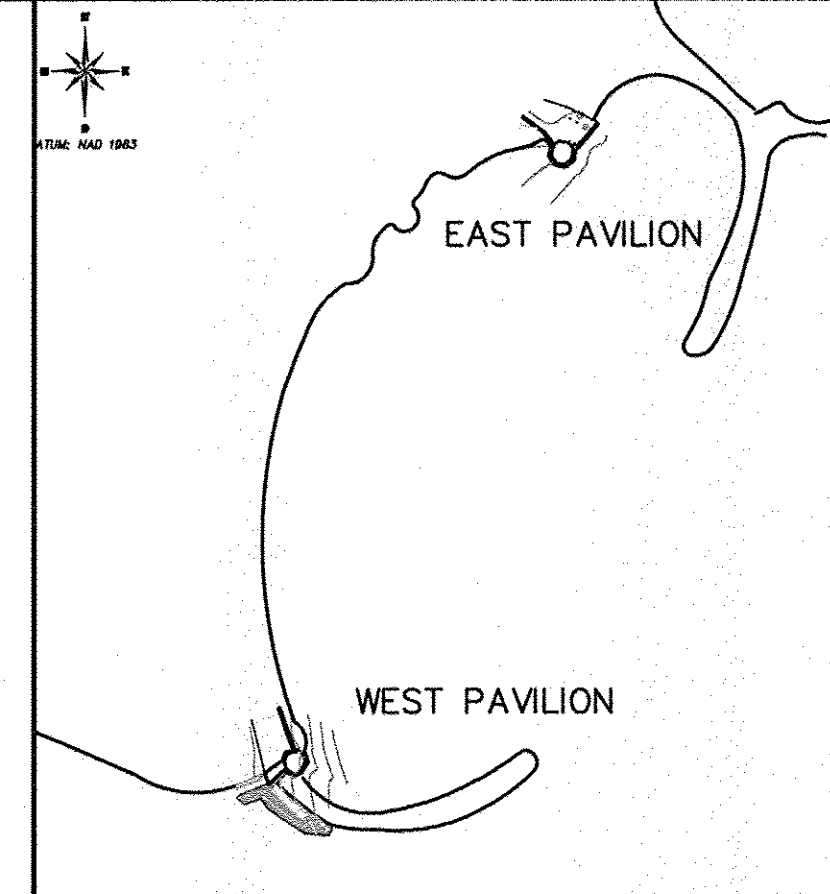
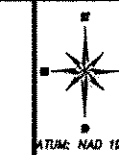
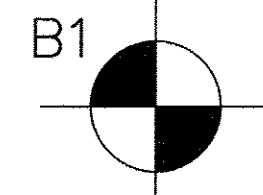
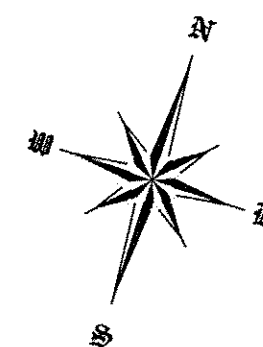
REVISION	DATE	MADE	AP'D	REVISION

RECORD DRAWING CERTIFICATION			
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CONTRACTOR		PROJECT COORDINATOR	
NAME _____	NAME _____	NAME _____	NAME _____
SIGNATURE _____	SIGNATURE _____	SIGNATURE _____	SIGNATURE _____
TITLE _____	TITLE _____	TITLE _____	TITLE _____
DATE _____	DATE _____	DATE _____	DATE _____

	CONSULTANT INFORMATION		
	 Boswell ENGINEERING ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS 330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606 TEL: (201) 641-0770 • FAX: (201) 641-1831 N.J. CERTIFICATE OF AUTHORIZATION NO. 246A27958000		
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 15-531	SHEET NUMBER 04
SUPERSTORM SANDY REHABILITATION GLEN ISLAND PARK SEAWALLS AND PAVILIONS NEW ROCHELLE, NEW YORK GENERAL PLAN		SHEET NO. 4 OF 34 SCALE: AS NOTED DATE: MAY 2018 DPW FILE NO. 5-18-G-102 REV. NO. 0	



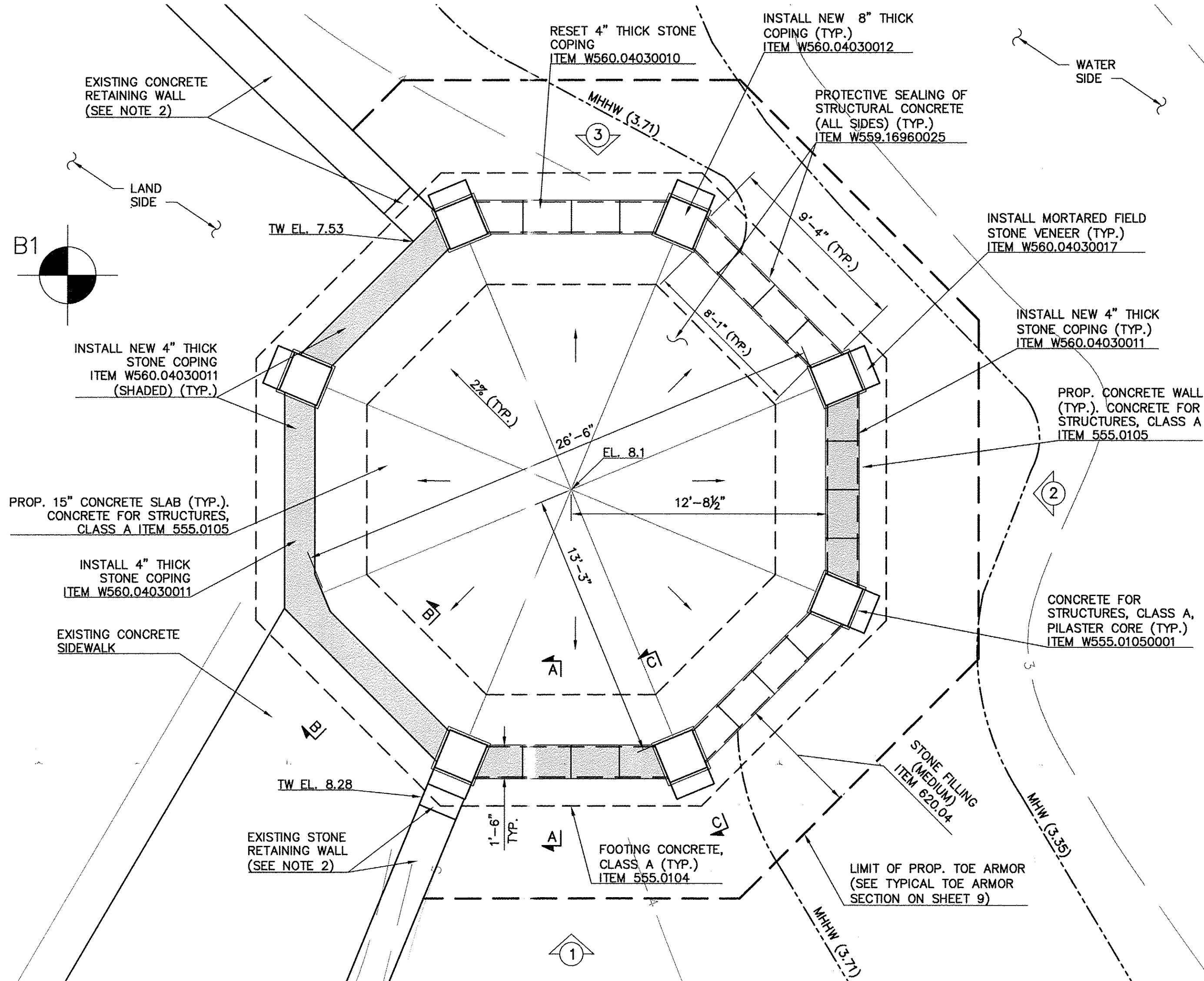
UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW.				RECORD DRAWING CERTIFICATION		WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 15-531		SHEET NUMBER 05	
IN CHARGE OF J. R. VALENTIN, P.E.				AS BUILT - CHANGES AS NOTED		SUPERSTORM SANDY REHABILITATION		SHEET NO. 5 OF 34		SCALE: AS NOTED	
CHECKED BY J. R. VALENTIN, P.E.				AS BUILT - NO CHANGES		GLEN ISLAND PARK SEAWALLS AND PAVILIONS		DATE: MAY 2018		DPW FILE NO.	
MADE BY C. LINO				CONTRACTOR		NEW ROCHELLE, NEW YORK		REV. NO.		5-18-G-103	
				PROJECT COORDINATOR		LOC. 1-EAST PAVILION PLAN AND ELEVATIONS		0			
REVISION		DATE		MADE		APPROVED		REVISION			



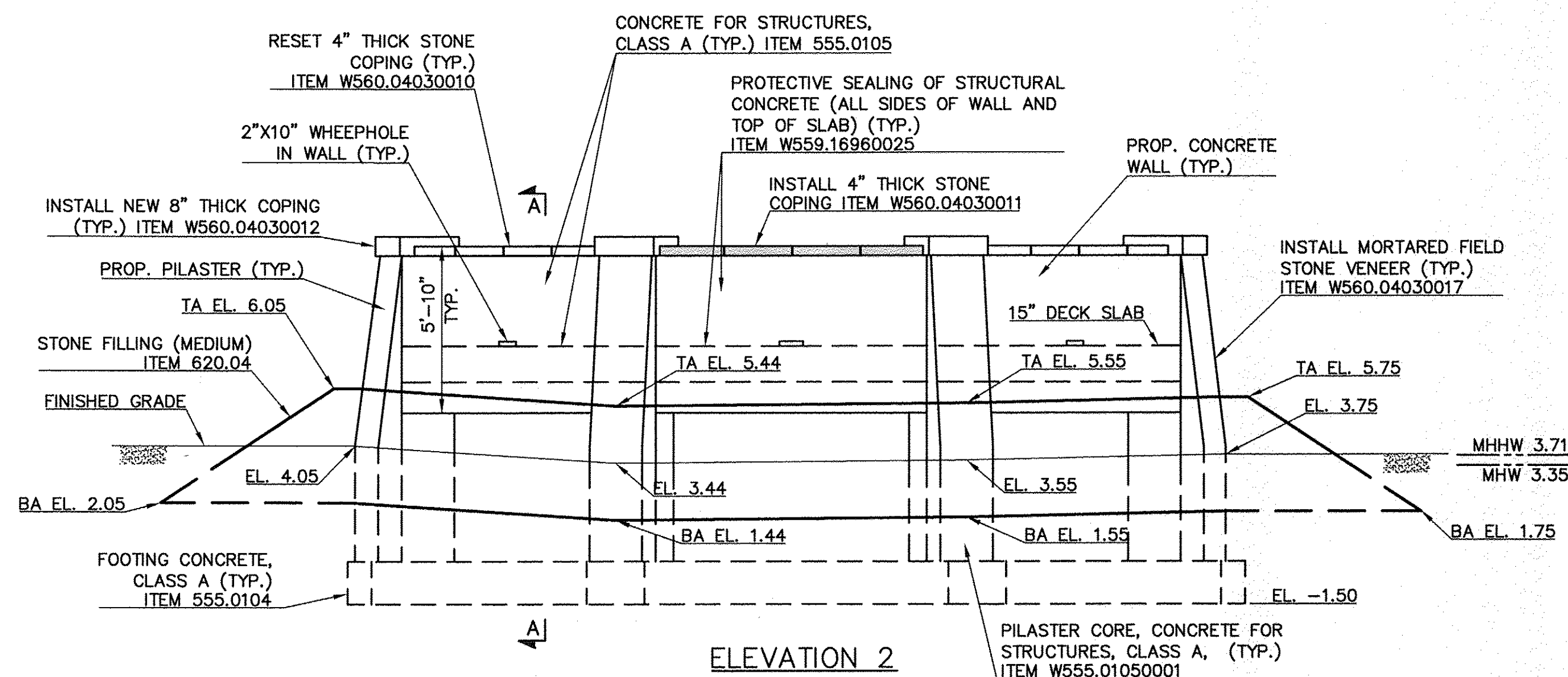
KEY MAP
N.T.S.

NOTES:

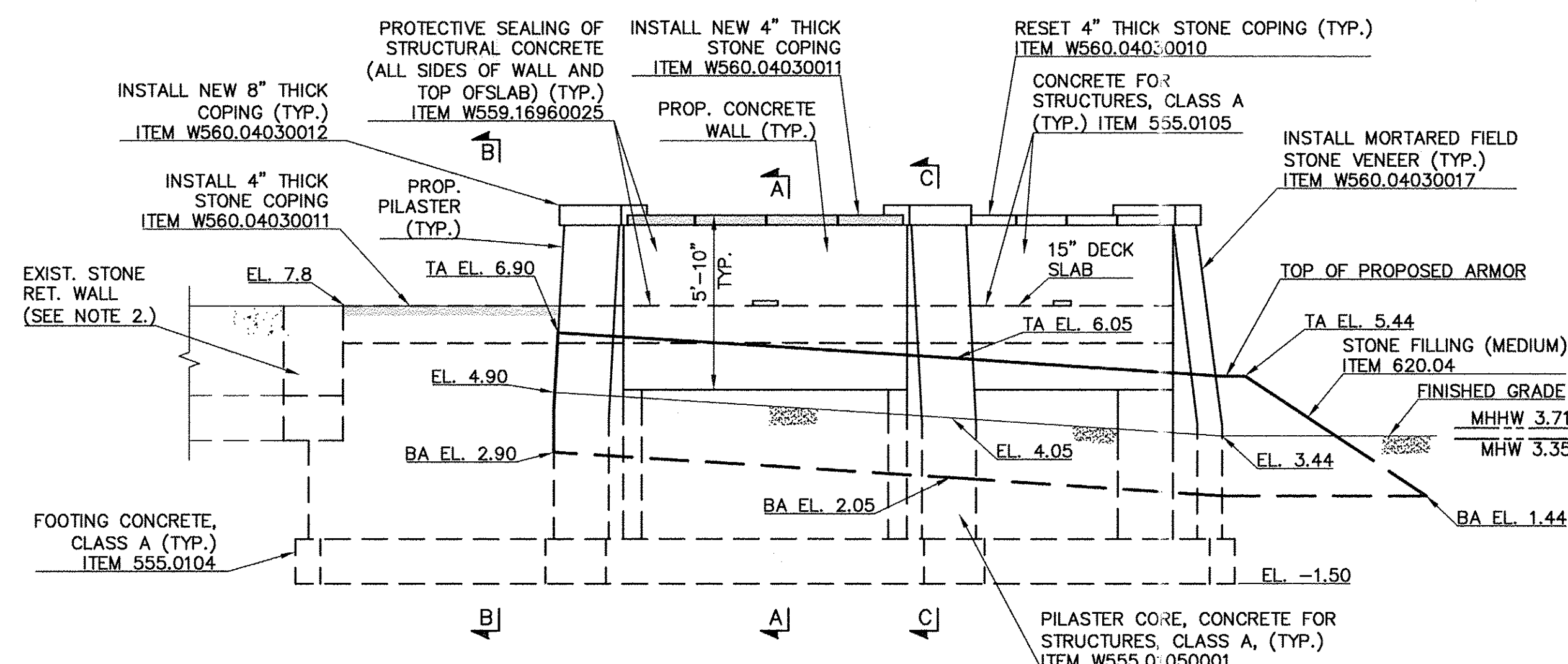
1. FOR GENERAL NOTES, SEE SHEET 2.
2. PORTION (2'-4") OF EXISTING WALLS TO BE REMOVED AND RECONSTRUCTED. ALL COSTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR REMOVAL OF SUBSTRUCTURES ITEM 202.19.
3. FACES OF NEW WALL AND CAP STONES SHALL MATCH EAST PAVILION IN APPEARANCE.



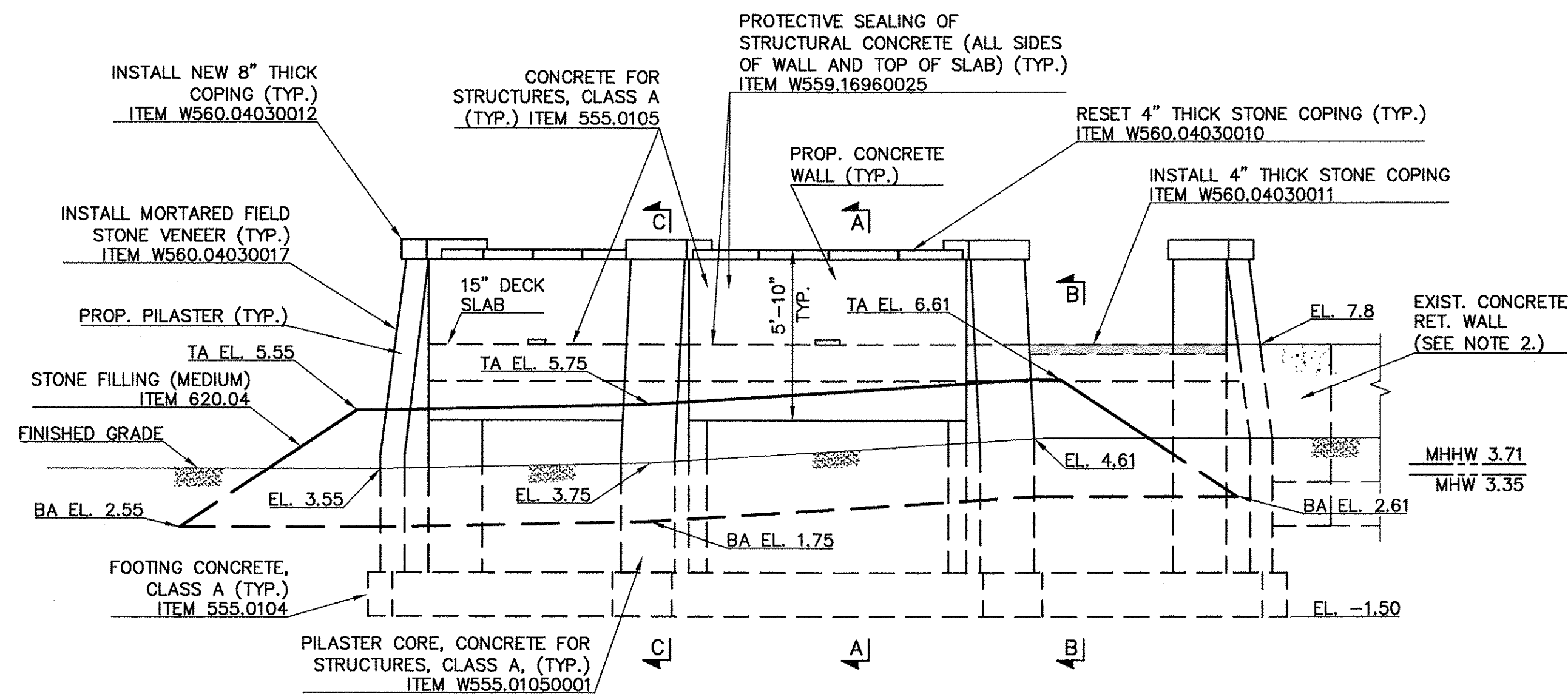
WEST PAVILION PLAN
SCALE: 1/4" = 1'-0"



ELEVATION 2
SCALE: 1/4" = 1'-0"



ELEVATION 1
SCALE: 1/4" = 1'-0"



ELEVATION 3
SCALE: 1/4" = 1'-0"

LEGEND:
BW - BOTTOM OF WALL
TW - TOP OF WALL
BA - BOTTOM OF ARMOR
TA - TOP OF ARMOR
MHW - MEAN HIGH WATER (3.35)
MLW - MEAN LOW WATER (-3.93)

UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF J. R. VALENTIN, P.E.
CHECKED BY J. R. VALENTIN, P.E.
MADE BY C. LINO

REVISION	DATE	MADE	APP'D

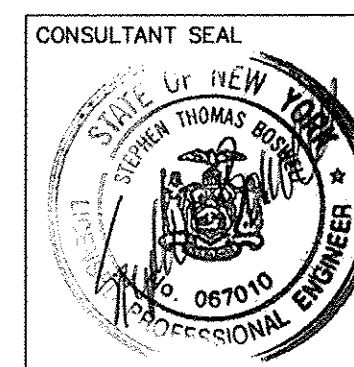
RECORD DRAWING CERTIFICATION

- ☐ AS BUILT - CHANGES AS NOTED
☐ AS BUILT - NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE

PROJECT COORDINATOR

NAME
SIGNATURE
TITLE



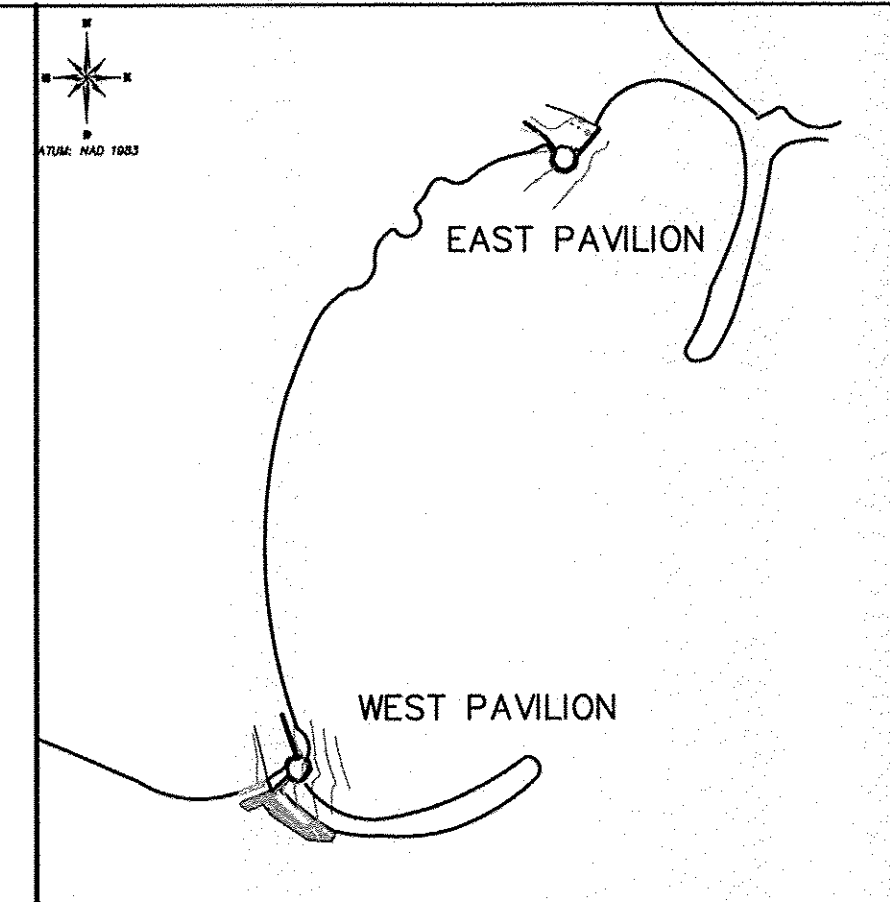
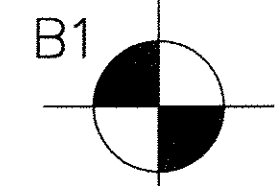
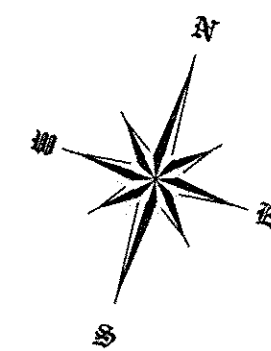
CONSULTANT INFORMATION

Boswell ENGINEERING
ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
TEL: (201) 641-0770 • FAX: (201) 641-1831
N.J. CERTIFICATE OF AUTHORIZATION NO. 246A27958000

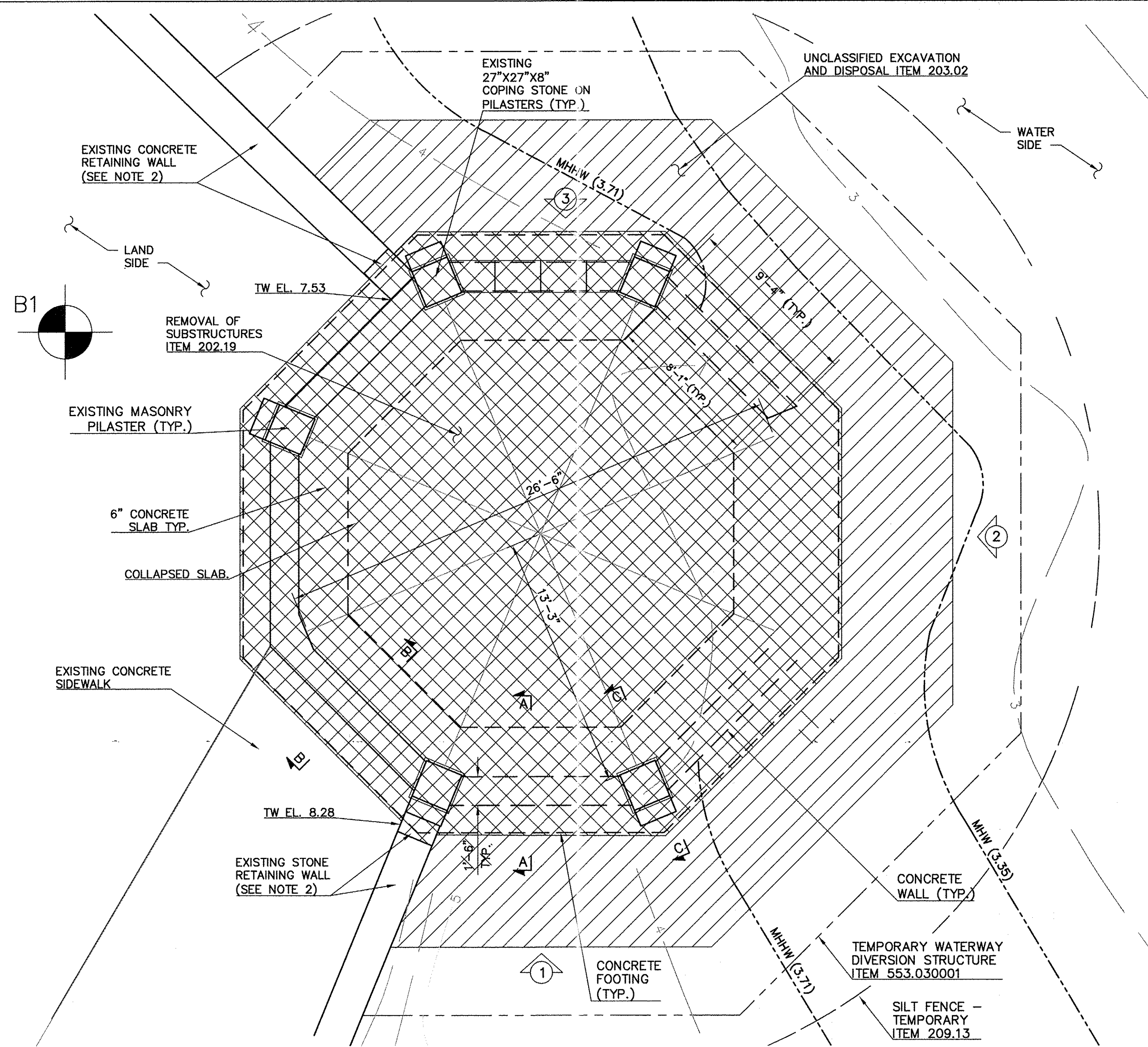
WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

SUPERSTORM SANDY REHABILITATION
GLEN ISLAND PARK SEAWALLS AND PAVILIONS
NEW ROCHELLE, NEW YORK
LOC. 1-WEST PAVILION PROPOSED PLAN AND ELEVATIONS

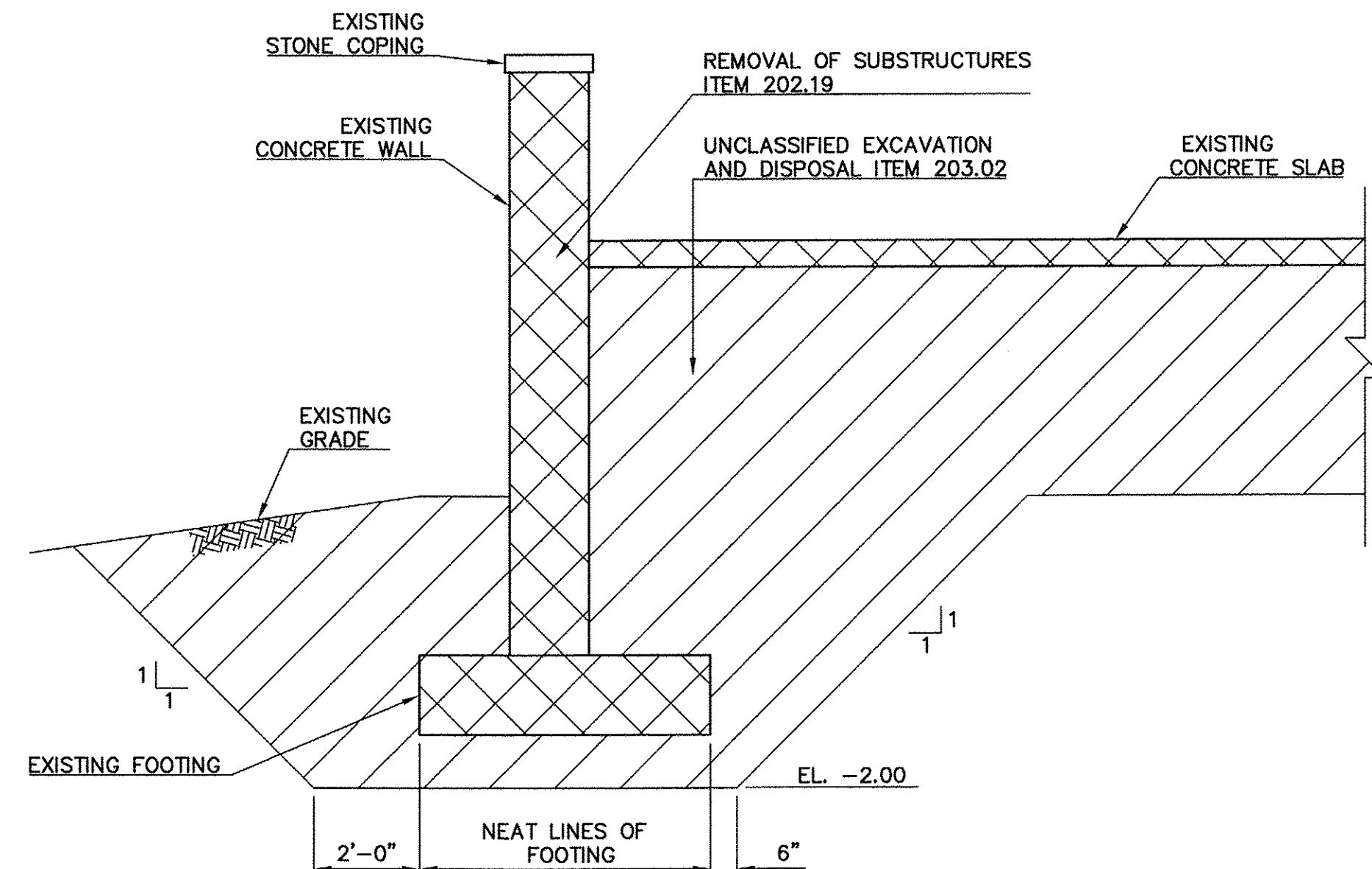
CONTRACT NUMBER	SHEET NUMBER
15-531	06
SHEET NO. 6 OF 34	
SCALE: AS NOTED DATE: MAY 2018	
DPW FILE NO.	REV. NO.
5-18-G-104	0



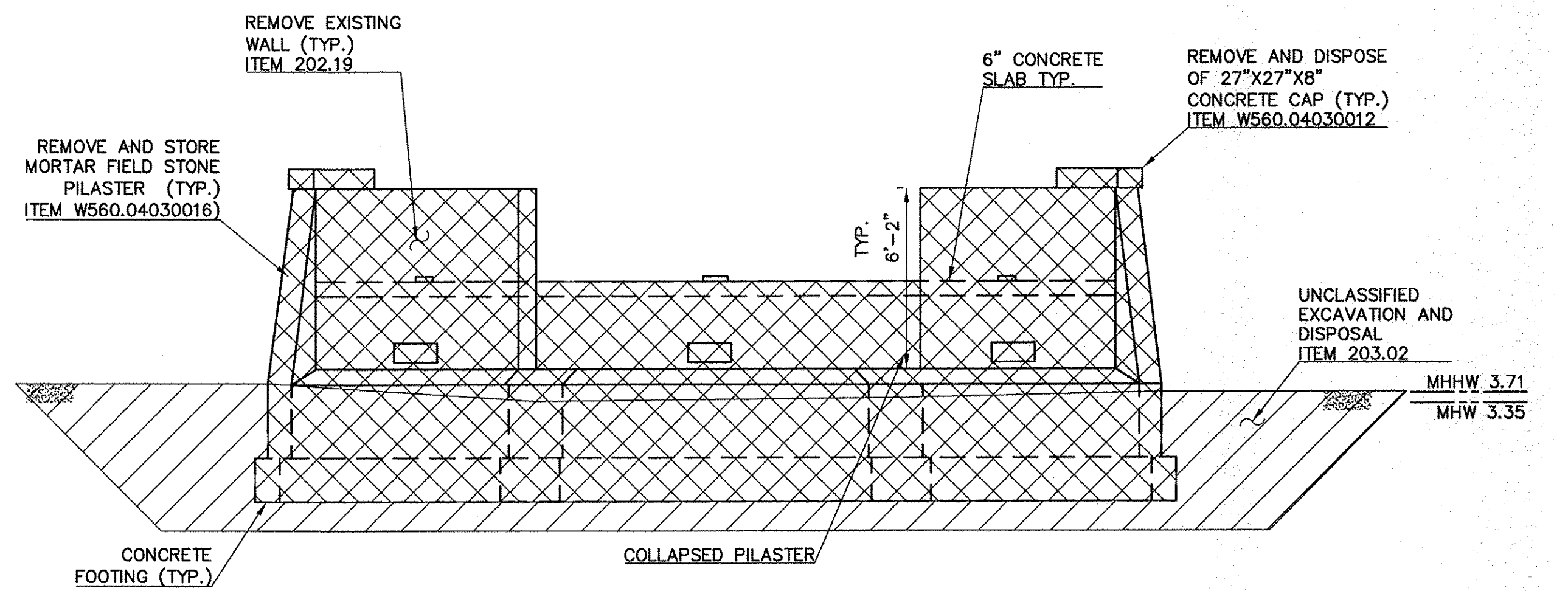
KEY MAP
N.T.S.



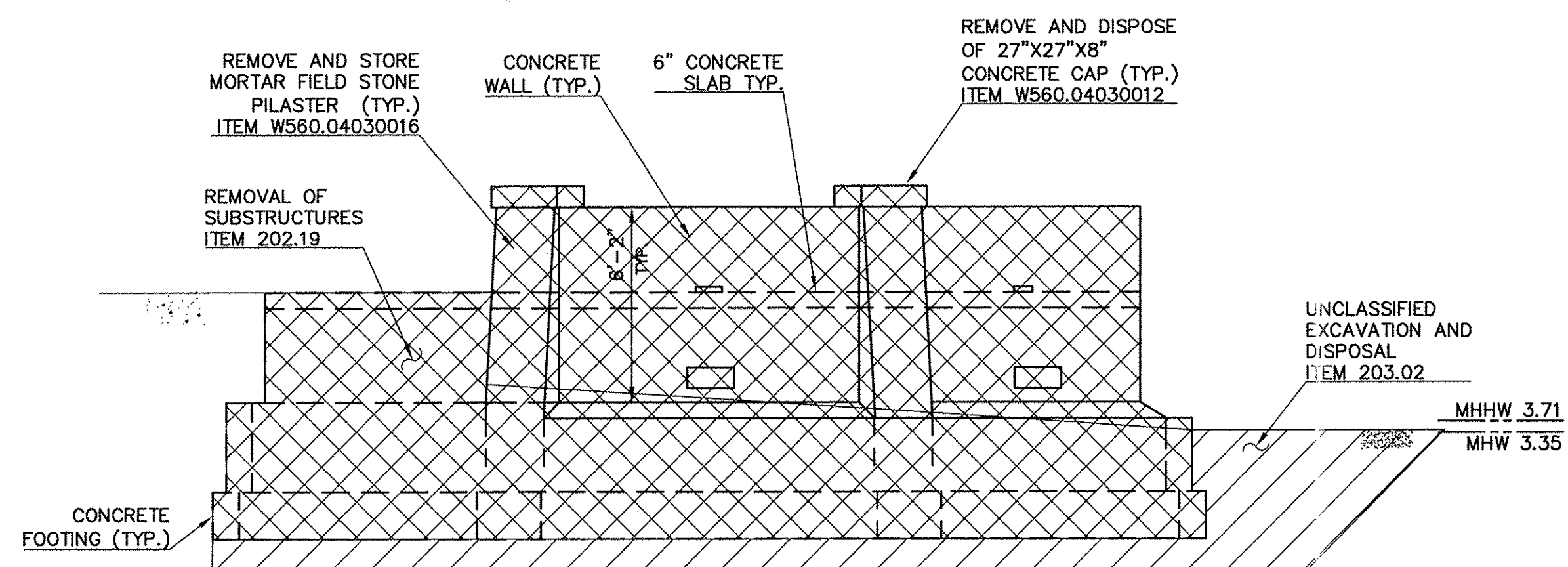
WEST PAVILION DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



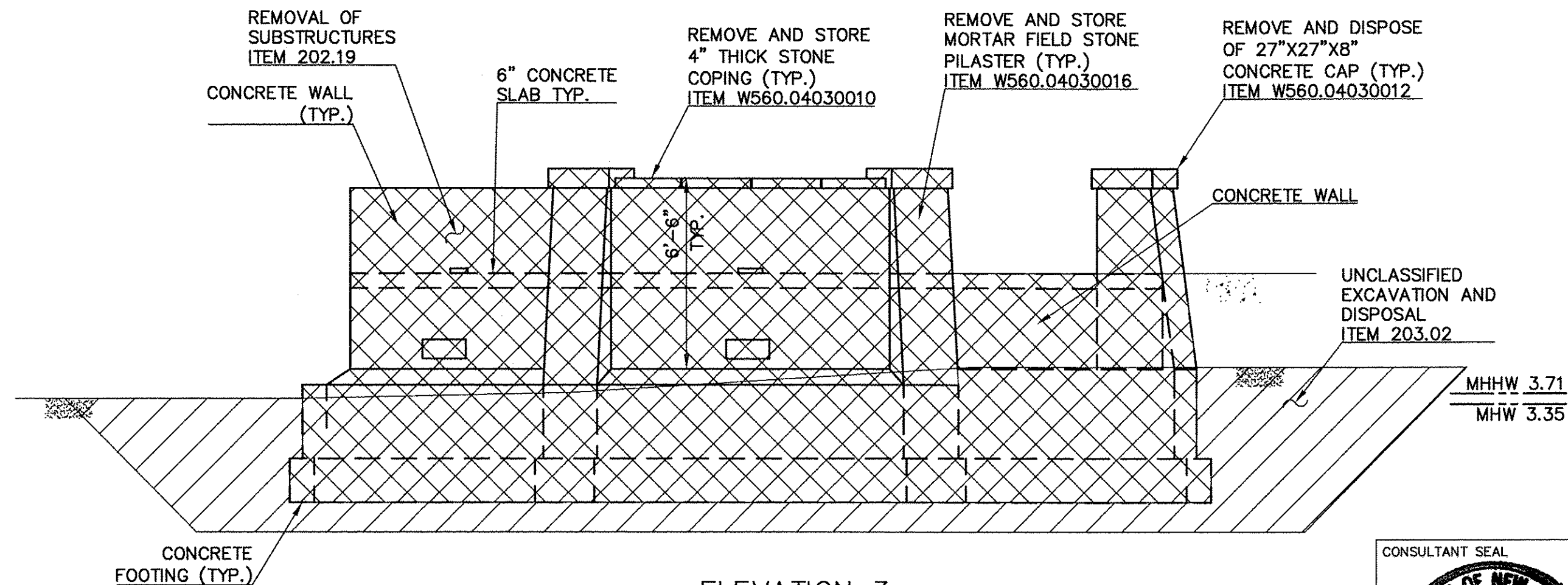
PAY LIMITS FOR EXCAVATION
SCALE: N.T.S.



ELEVATION 2
SCALE: 1/4" = 1'-0"



ELEVATION 1
SCALE: 1/4" = 1'-0"



ELEVATION 3
SCALE: 1/4" = 1'-0"

NOTES:

- FOR GENERAL NOTES, SEE SHEET 2.
- REMOVE PORTION OF EXISTING WALLS, AS NECESSARY, TO CONSTRUCT PAVILION FOUNDATION. RECONSTRUCT IN-KIND AFTER COMPLETION OF PAVILION CONSTRUCTION. DETAILS FOR DEMOLITION AND RECONSTRUCTION OF THESE WALLS TO BE SUBMITTED FOR APPROVAL BY THE ENGINEER. ALL COSTS FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR REMOVAL OF SUBSTRUCTURES ITEM 202.19.

LEGEND:

- LIMITS OF REMOVAL OF SUBSTRUCTURES
- LIMITS OF UNCLASSIFIED EXCAVATION AND DISPOSAL

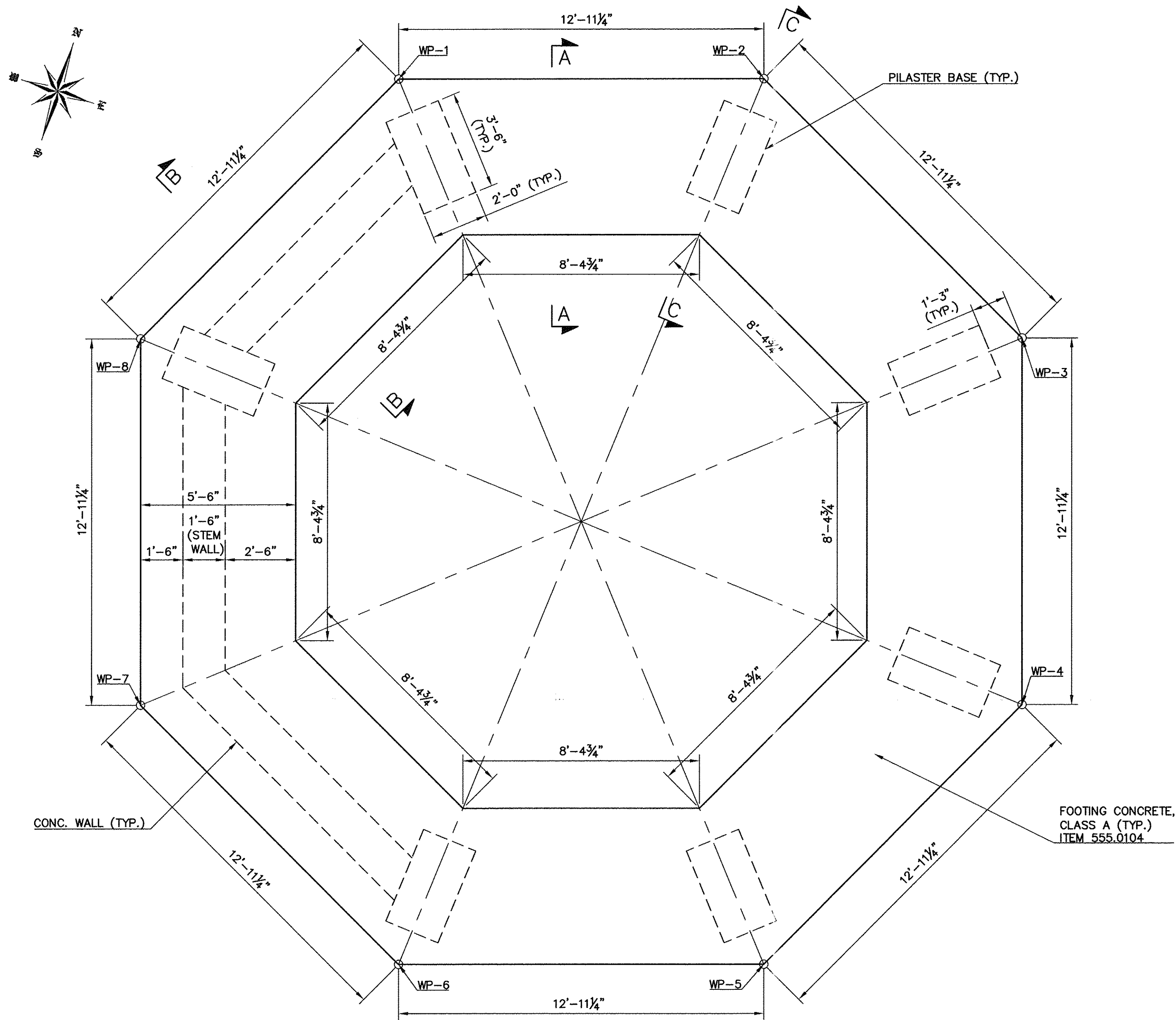
UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF J. R. VALENTIN, P.E.
CHECKED BY J. R. VALENTIN, P.E.
MADE BY C. LINO

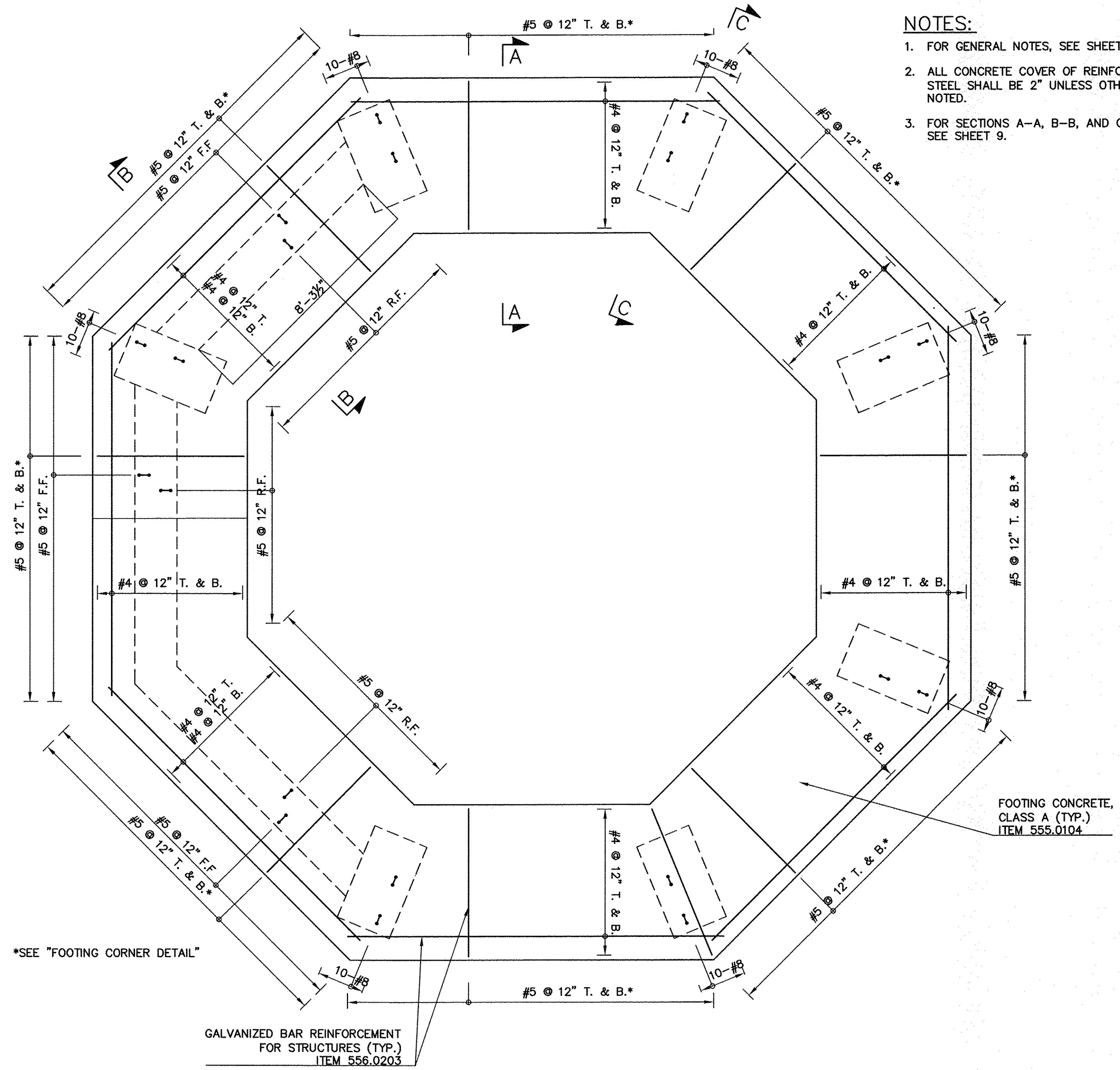
REVISION	DATE	MADE	APP'D	REVISION

RECORD DRAWING CERTIFICATION			
AS BUILT - CHANGES AS NOTED			
AS BUILT - NO CHANGES			
CONTRACTOR		PROJECT COORDINATOR	
NAME		NAME	
SIGNATURE		SIGNATURE	
TITLE		TITLE	

CONSULTANT SEAL		CONSULTANT INFORMATION	
WESTCHESTER COUNTY, NEW YORK		DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION	
DIVISION OF ENGINEERING		SUPERSTORM SANDY REHABILITATION	
GLEN ISLAND PARK SEAWALLS AND PAVILIONS		NEW ROCHELLE, NEW YORK	
LOC. 1-WEST PAVILION DEMOLITION PLAN AND ELEVATIONS		CONTRACT NUMBER 15-531	
		SHEET NUMBER 07	
		SHEET NO. 7 OF 34	
		SCALE: AS NOTED	
		DATE: MAY 2018	
		DPW FILE NO.	
		REV. NO. 0	



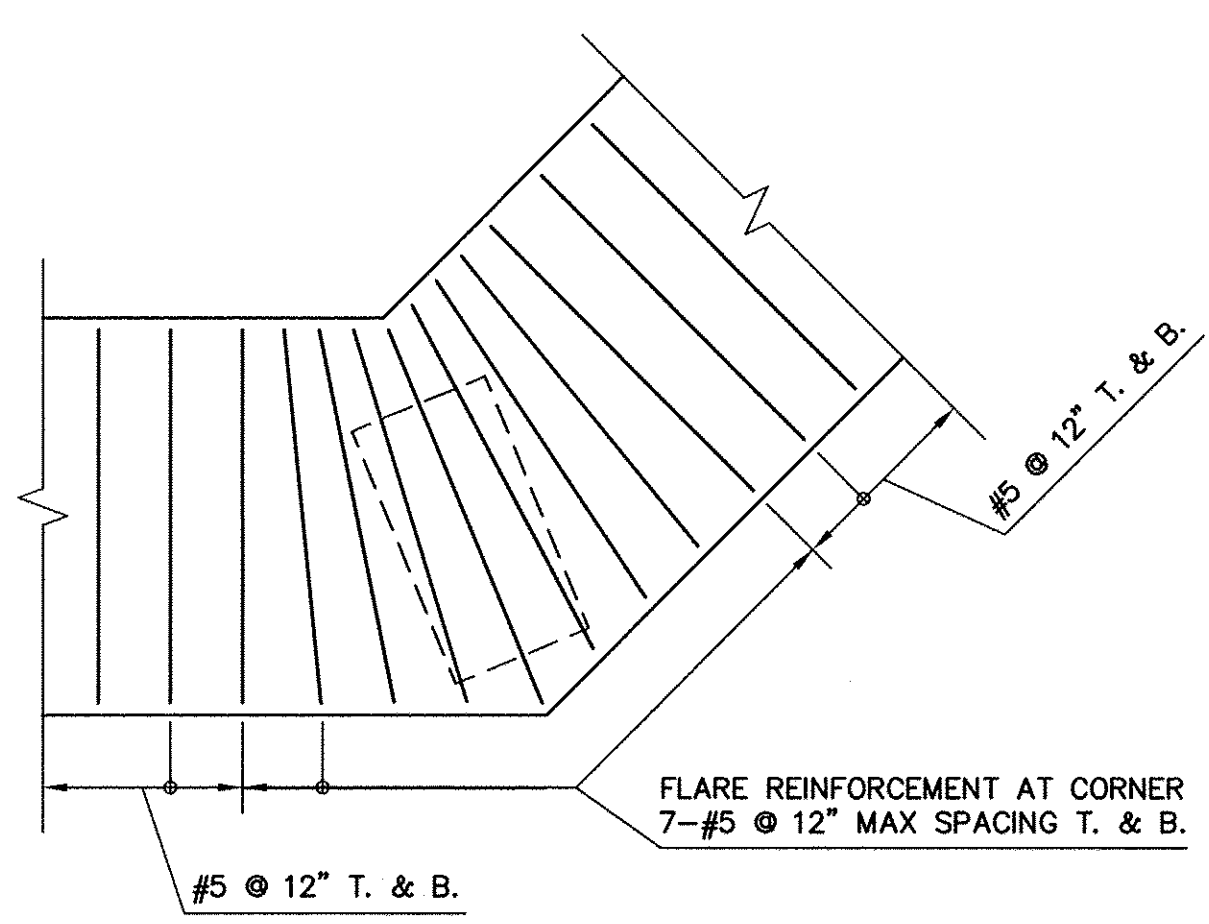
FOOTING PLAN
SCALE: 3/8" = 1'-0"



FOOTING REINFORCEMENT PLAN
SCALE: 3/8" = 1'-0"

- NOTES:**
1. FOR GENERAL NOTES, SEE SHEET 2.
 2. ALL CONCRETE COVER OF REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.
 3. FOR SECTIONS A-A, B-B, AND C-C, SEE SHEET 9.

WORKING POINT TABLE		
W.P.	NORTHING	EASTING
1	746881.6878	690405.7771
2	746885.6523	690418.0984
3	746879.7431	690429.6142
4	746867.4218	690433.5787
5	746855.9060	690427.6695
6	746851.9415	690415.3482
7	746857.8507	690403.8324
8	746870.1720	690399.8679



FOOTING CORNER DETAIL
SCALE: N.T.S.

UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF J. R. VALENTIN, P.E.
 CHECKED BY J. R. VALENTIN, P.E.
 MADE BY C. LINO

REVISION	DATE	MADE	AP'D	REVISION

RECORD DRAWING CERTIFICATION			
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CONTRACTOR		PROJECT COORDINATOR	
NAME _____	NAME _____	SIGNATURE _____	SIGNATURE _____
TITLE _____	TITLE _____	DATE _____	DATE _____

CONSULTANT SEAL

CONSULTANT INFORMATION

Boswell ENGINEERING
 ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
 330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
 TEL: (201) 641-0770 • FAX: (201) 641-1831
 N.J. CERTIFICATE OF AUTHORIZATION NO. 246A27958000

WESTCHESTER COUNTY, NEW YORK
 DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
 DIVISION OF ENGINEERING

SUPERSTORM SANDY REHABILITATION
 GLEN ISLAND PARK SEAWALLS AND PAVILIONS
 NEW ROCHELLE, NEW YORK
 LOC. 1-WEST PAVILION - FOUNDATION PLANS

CONTRACT NUMBER 15-531	SHEET NUMBER 08
SHEET NO. 8 OF 34	
SCALE: AS NOTED DATE: MAY, 2018 DPW FILE NO.	
5-18-G-106	REV. NO. 0

[illegible]

9'-3 1/2"

#4 @ 10" F.F. & R.F.

FINISHED GRADE

INSTALL 4" THICK STONE COPING
ITEM W560.04030011

1'-6"

EL. 7.8

#4 @ 12" E.W.

#8 @ 12" E.W.

15" CONCRETE SLAB

CONCRETE FOR STRUCTURES, CLASS A
ITEM 555.0105

#5 @ 12"

#5 @ 12"

1 1/2" DIA. X 18" L
G.V. SMOOTH DOWEL
BARS @ 12"

CONC. CORBEL
(SEE TYP. CORBEL
SECTION AND PLAN
ON SHEET 10)

2'-2" LAP

2'-2" LAP

3'-0"

#5 @ 12"

1'-6"

3" COVER (TYP.)

6" (T.P.)

3" COVER

#4 @ 12" (T & B)

5'-6"

6" SUBBASE COURSE, TYPE 1
ITEM 304.11

EL. -1.50

FOOTING CONCRETE, CLASS A (TYP.)
ITEM 555.0104

REMOVE, DISPOSE AND INSTALL
NEW 8" THICK COPING (TYP.)
ITEM W560.04030012

INSTALL MORTARED
FIELD STONE VENEER
(ALL EXPOSED PILASTER
FACES) (TYP.)
ITEM W560.04030017

CONCRETE FOR
STRUCTURES, CLASS A
(TYP.) ITEM 555.0105

CONCRETE FOR
STRUCTURES, CLASS A,
PILASTER CORE (TYP.)
ITEM W555.01050001

2'-3"

1'-10"

10-#8
(TYP.)

3'-10"

EL. 7.8

GALVANIZED BAR
REINFORCEMENT FOR
STRUCTURES (TYP.)
ITEM 556.0203

#4 @ 12" E.W.

#8 @ 12" E.W.

15" CONCRETE
SLAB

1'-3"

1'-1"

1 1/2" DIA.X18"L
GALV. SMOOTH
BARS @ 12"

DOWEL

3-#8
(TYP.)

#4 STIRRUP
@ 12" E.F.

FINISHED GRADE

3'-0"

55" LAP

#5 @ 12"

3'-6"

3" COVER
(TYP.)

1'-6"

6"
(TYP.)

3" COVER

#4 @ 12" (T & B)

6" SUBBASE COURSE, TYPE 1
ITEM 304.11

EL. -1.50

FOOTING CONCRETE,
CLASS A (TYP.)
ITEM 555.0104

SECTION C-C

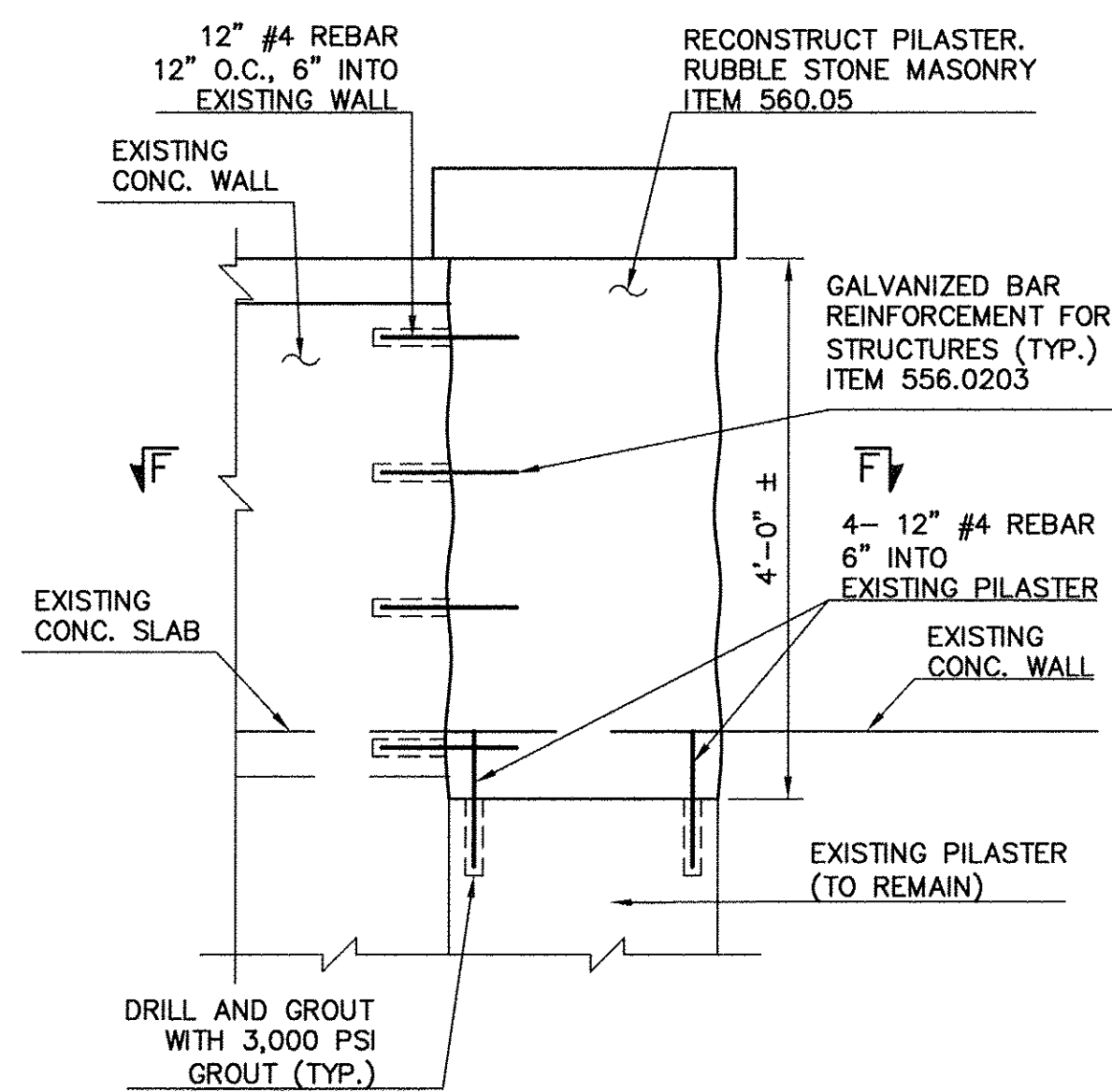
NOTES:

1. FOR GENERAL NOTES, SEE SHEET 2.
2. ALL REBAR LAPS SHALL BE A MINIMUM OF 40xBAR DIAMETER, UNLESS OTHERWISE NOTED.
3. ALL CONCRETE COVER OF REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.

TYPICAL TOE ARMOR SECTION
WEST PAVILION
SCALE 1/2" = 1'-0"

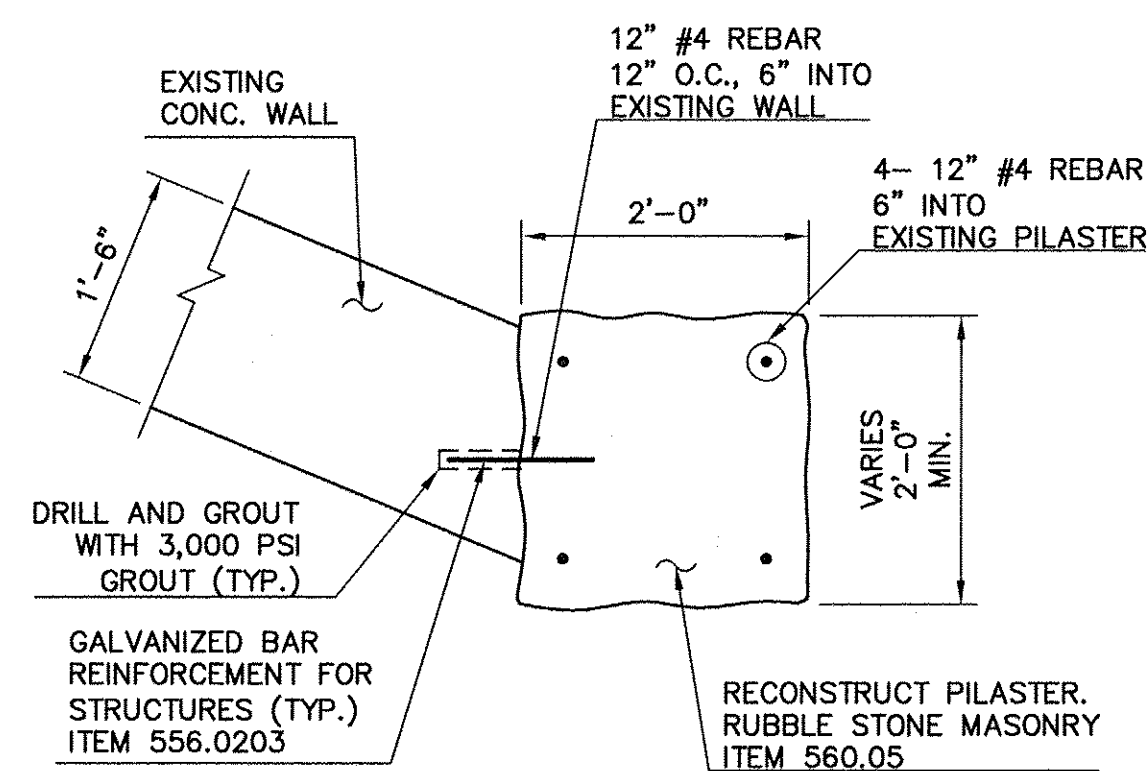
SECTION E-E
SCALE 3/4" = 1'-0"

CONTRACT NUMBER 15-531	SHEET NUMBER 09
SHEET NO. 9 OF 34	
SCALE: AS NOTED DATE: MAY 2018	
DPW FILE NO. 5-18-G-107	REV. NO. 0



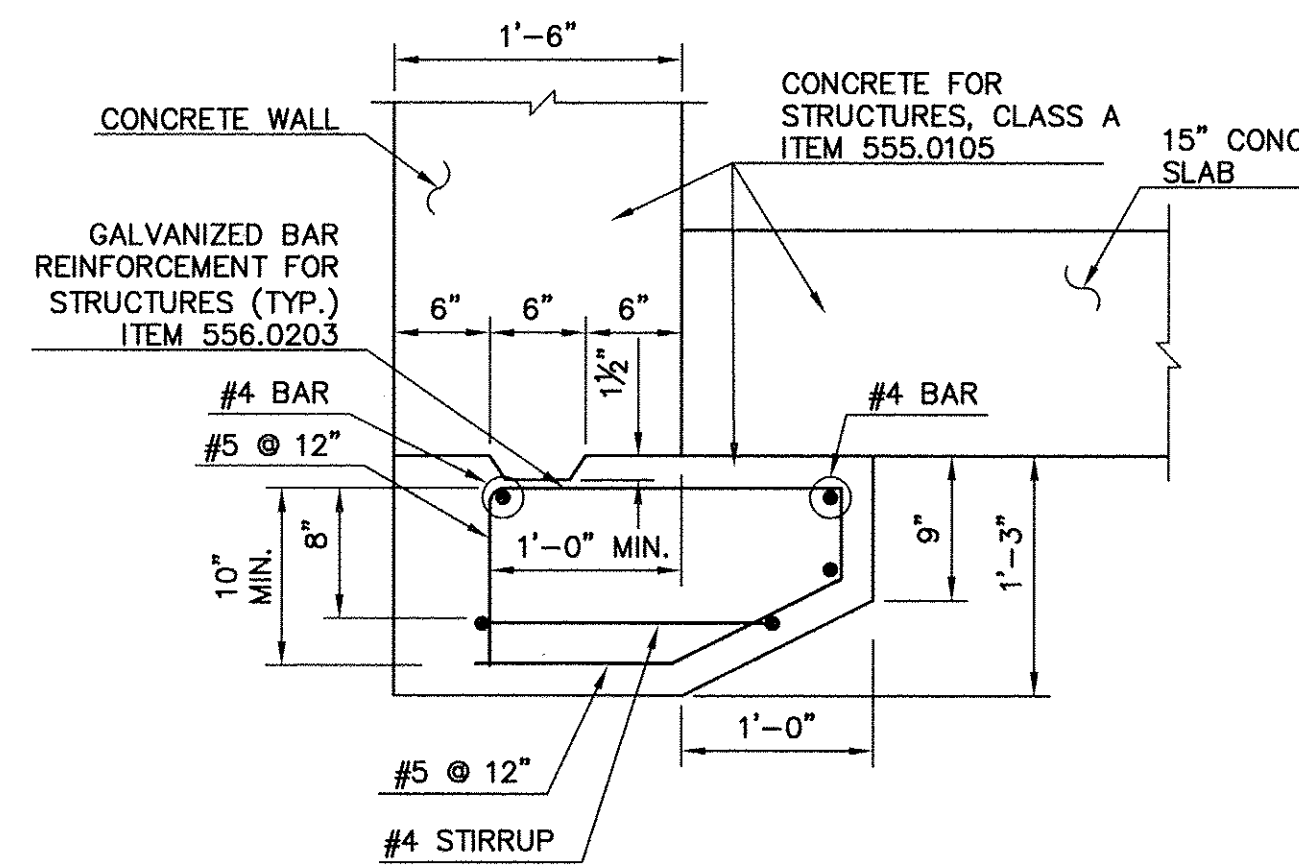
PILASTER RECONSTRUCTION DETAIL
EAST PAVILION

SCALE 3/4" = 1'-0"



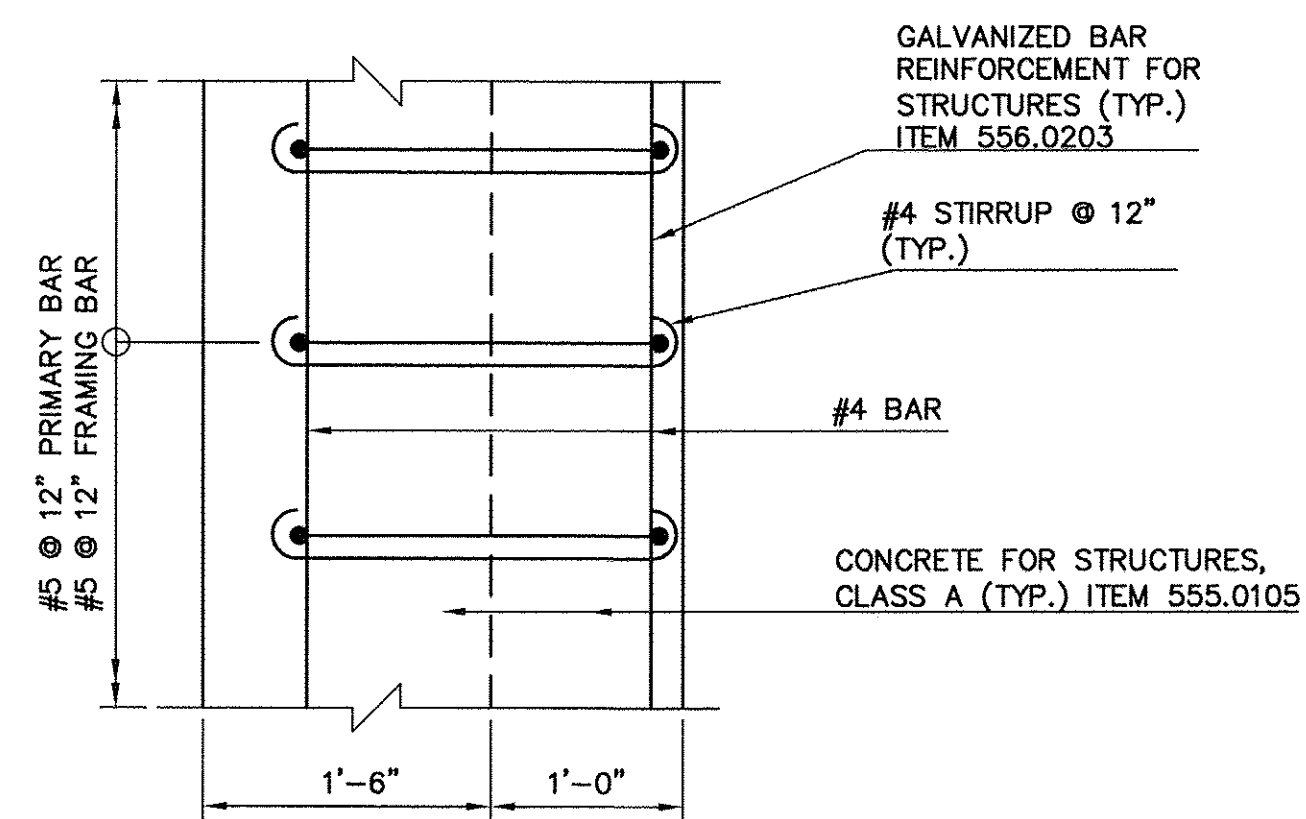
SECTION F-F

SCALE 3/4" = 1'-0"



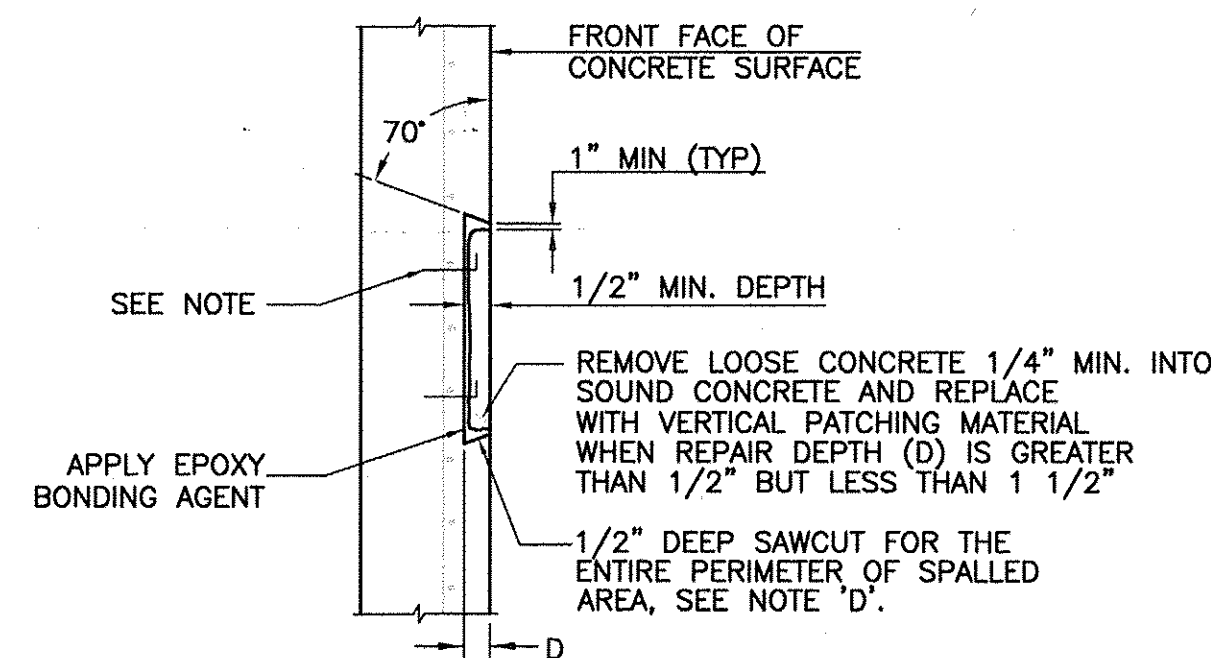
TYPICAL CORBEL SECTION
WEST PAVILION

SCALE 1" = 1'-0"

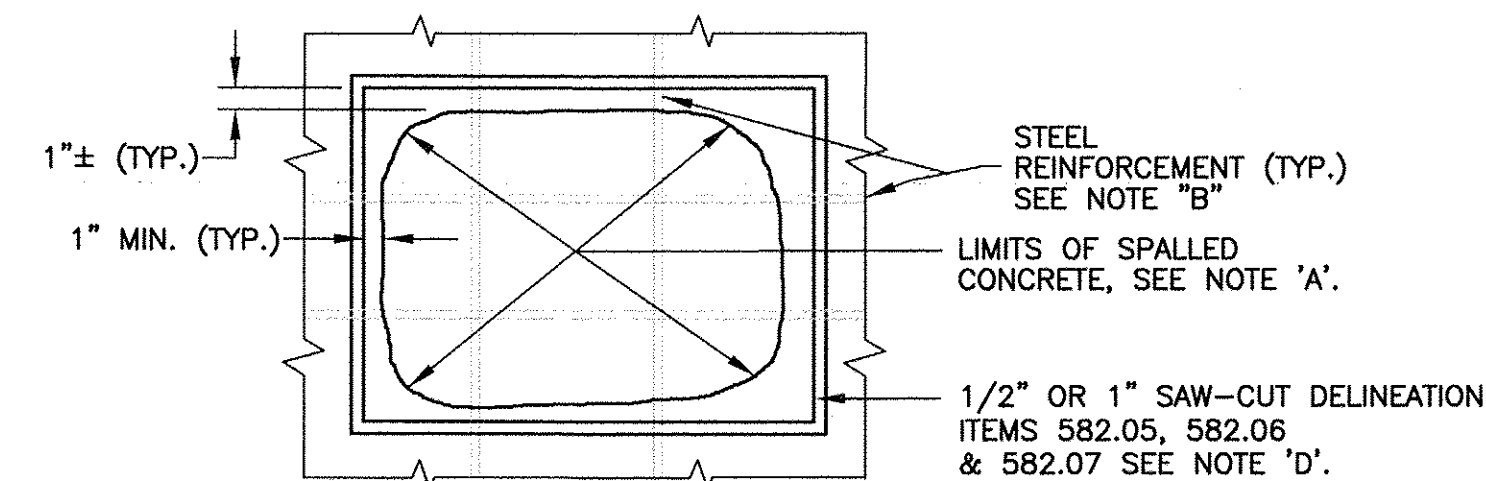


TYPICAL CORBEL REINFORCEMENT PLAN

SCALE 1/2" = 1'-0"



VERTICAL SURFACES



ELEVATION

SHALLOW CONCRETE SPALL REPAIR - ITEM 582.07

NOT TO SCALE

LEGEND:

R.F. = REAR FACE
F.F. = FRONT FACE
TYP. = TYPICAL
EL. = ELEVATION
T. = TOP
B. = BOTTOM
E.S. = EACH SIDE
CONT. = CONTRACTION
EXP. = EXPANSION
E. = EPOXY COATED

NOTES:


- FOR GENERAL NOTES, SEE SHEET 2.
- ALL REBAR LAPS SHALL BE A MINIMUM OF 40x BAR DIAMETER, UNLESS OTHERWISE NOTED.
- ALL CONCRETE COVER OF REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.

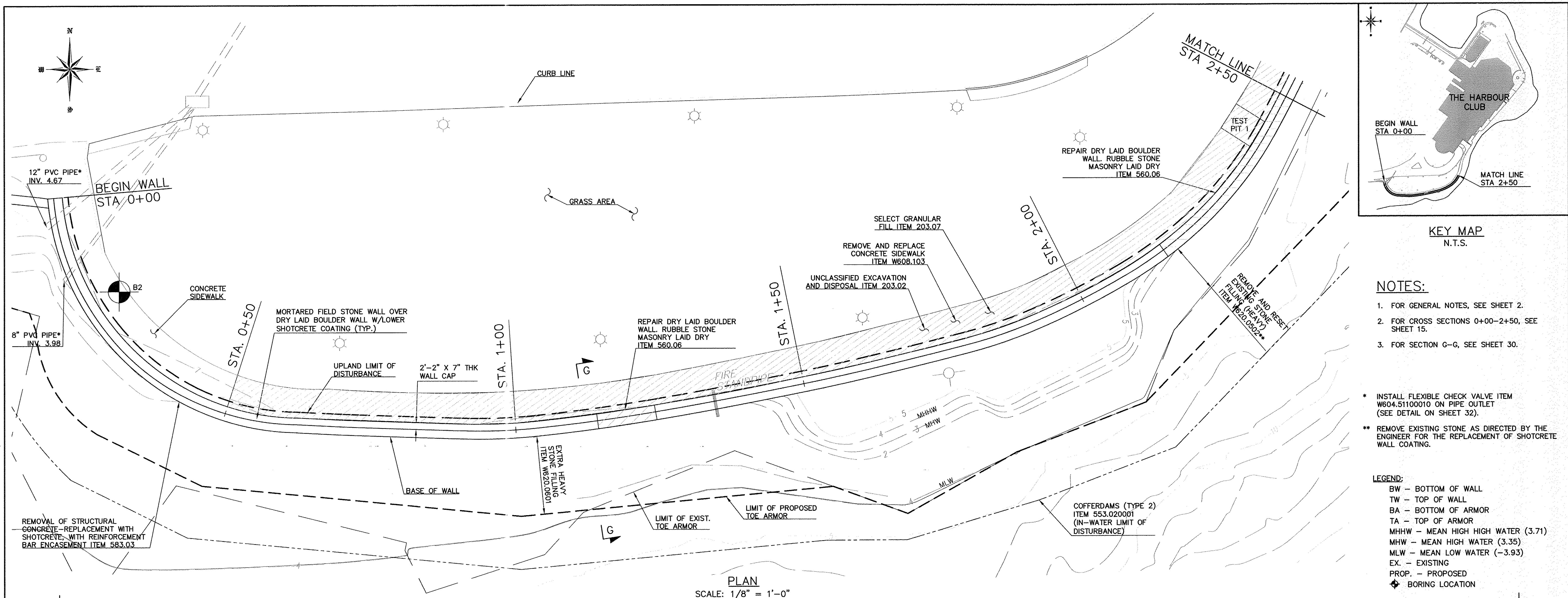
UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF J. R. VALENTIN, P.E.
CHECKED BY J. R. VALENTIN, P.E.
MADE BY C. LINO

REVISION	DATE	MADE	APP'D

RECORD DRAWING CERTIFICATION			
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES			
CONTRACTOR		PROJECT COORDINATOR	
NAME		NAME	
SIGNATURE		SIGNATURE	
TITLE		TITLE	
DATE		DATE	

		Boswell ENGINEERING ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS 330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606 TEL: (201) 641-0770 • FAX: (201) 641-1831 N.J. CERTIFICATE OF AUTHORIZATION NO. 246A27959000	
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 15-531	SHEET NUMBER 10
SUPERSTORM SANDY REHABILITATION GLEN ISLAND PARK SEAWALLS AND PAVILIONS NEW ROCHELLE, NEW YORK LOC. 1- PAVILION DETAILS		SHEET NO. 10 OF 34 SCALE: AS NOTED DATE: MAY 2018 DPW FILE NO. 5-18-G-108	
		REV. NO.	0



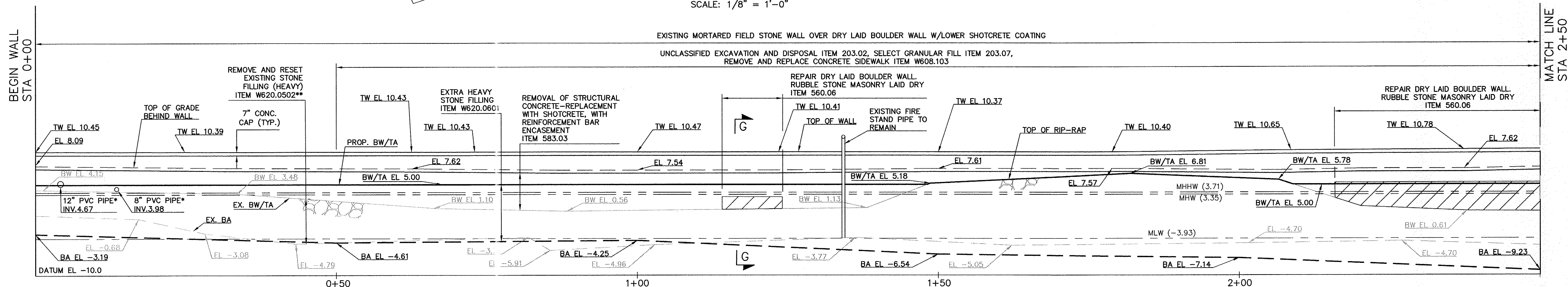
NOTES:

1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR CROSS SECTIONS 0+00-2+50, SEE SHEET 15.
3. FOR SECTION G-G, SEE SHEET 30.

- * INSTALL FLEXIBLE CHECK VALVE ITEM W604.51100010 ON PIPE OUTLET (SEE DETAIL ON SHEET 32).
- ** REMOVE EXISTING STONE AS DIRECTED BY THE ENGINEER FOR THE REPLACEMENT OF SHOTCRETE WALL COATING.

LEGEND:

- BW - BOTTOM OF WALL
- TW - TOP OF WALL
- BA - BOTTOM OF ARMOR
- TA - TOP OF ARMOR
- MHHW - MEAN HIGH HIGH WATER (3.71)
- MHW - MEAN HIGH WATER (3.35)
- MLW - MEAN LOW WATER (-3.93)
- EX - EXISTING
- PROP. - PROPOSED
- ◆ BORING LOCATION

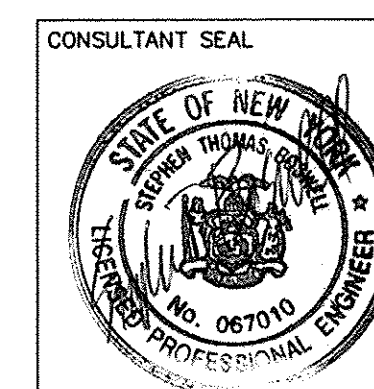


UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF J. R. VALENTIN, P.E.
CHECKED BY J. R. VALENTIN, P.E.
MADE BY C. LINO

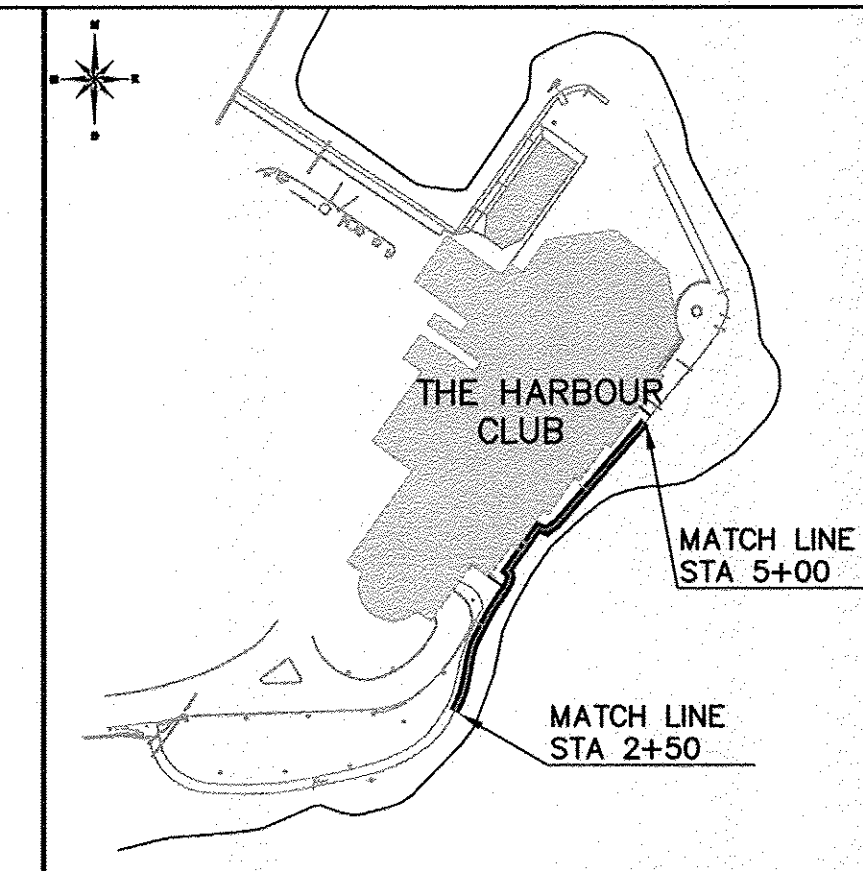
REVISION	DATE	MADE	APP'D	REVISION

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CONTRACTOR		PROJECT COORDINATOR	
NAME		NAME	
SIGNATURE		SIGNATURE	
TITLE		TITLE	
DATE		DATE	



Boswell Engineering
ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
TEL: (201) 641-0770 • FAX: (201) 641-1831
N.J. CERTIFICATE OF AUTHORIZATION NO. 246A27958000

WESTCHESTER COUNTY, NEW YORK		CONTRACT NUMBER	SHEET NUMBER
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		15-531	11
DIVISION OF ENGINEERING		SHEET NO. 11 OF 34	
SUPERSTORM SANDY REHABILITATION		SCALE: AS NOTED	DATE: MAY 2018
GLEN ISLAND PARK SEAWALLS AND PAVILIONS		DPW FILE NO.	REV. NO.
LOC. 2-1 SEAWALL STA. 0+00 TO STA. 2+50		5-18-G-109	0



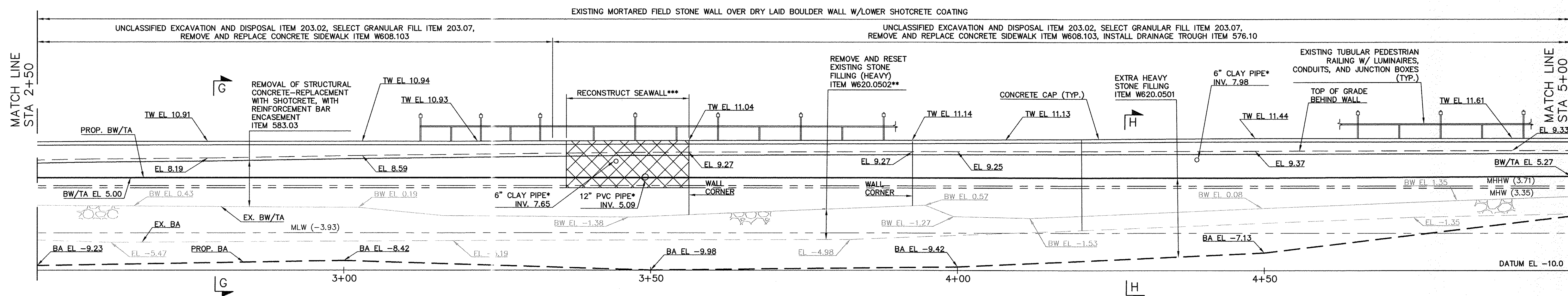
NOTES:


1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR CROSS SECTIONS 2+50-5+00, SEE SHEETS 15 & 16.
3. FOR SECTION G-G & H-H, SEE SHEET 30.
4. CONTRACTOR SHALL CAREFULLY DISASSEMBLE AND RE-ASSEMBLE EXISTING GATES WHEN NECESSARY DURING SIDEWALK REPLACEMENT. THIS WORK SHALL BE PAID FOR UNDER ITEM W608.13.

- * INSTALL FLEXIBLE CHECK VALVE ITEM W604.51100010 ON PIPE OUTLET (SEE DETAIL ON SHEET 32).
- ** REMOVE EXISTING STONE AS DIRECTED BY THE ENGINEER FOR THE REPLACEMENT OF SHOTCRETE WALL COATING.

*** RECONSTRUCTION OF SEAWALL SHALL INCLUDE THE FOLLOWING ITEMS:

- RUBBLE STONE MASONRY ITEM 560.05
- RUBBLE STONE MASONRY LAID DRY ITEM 560.06
- REMOVE AND RESET MORTARED FIELD STONE WALL ITEM W560.05010014
- REMOVE AND RESET DRY-LAID STONE WALL ITEM W560.06010015
- REMOVE, DISPOSE AND REPLACE PRECAST CONCRETE COPING ITEM W560.07020018
- REMOVE AND REPLACE PEDESTRIAN RAILING ON SEAWALL ITEM W568.94
- REMOVE AND INSTALL NEW CONDUITS AND JUNCTION BOXES ITEM W670.200201
- REMOVE AND REINSTALL EXISTING LUMINAIR ITEM W670.50110101



BW - BOTTOM OF WALL
 TW - TOP OF WALL
 BA - BOTTOM OF ARMOR
 TA - TOP OF ARMOR
 MHHW - MEAN HIGH HIGH WATER (3.71)
 MHW - MEAN HIGH WATER (3.35)
 MLW - MEAN LOW WATER (-3.93)
 EX. - EXISTING
 PROP. - PROPOSED
 BORING LOCATION

ELEVATION
SCALE: 1/8" = 1'-0"

UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS
PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2
OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF J. R. VALENTIN, P.E.
CHECKED BY J. R. VALENTIN, P.E.
MADE BY C. LINO

REVISION	DATE	MADE	APF'D	REVISION

RECORD DRAWING CERTIFICATION

☐ AS BUILT - CHANGES AS NOTED
☐ AS BUILT - NO CHANGES

CONTRACTOR

NAME _____
SIGNATURE _____
TITLE _____ DATE _____

PROJECT COORDINATOR

NAME _____
SIGNATURE _____
TITLE _____ DATE _____



CONSULTANT INFORMATION



BOSWELL ENGINEERING

ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
TEL: (201) 641-0770 • FAX: (201) 641-1831
N.J. CERTIFICATE OF AUTHORIZATION NO. 24GA27958000

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

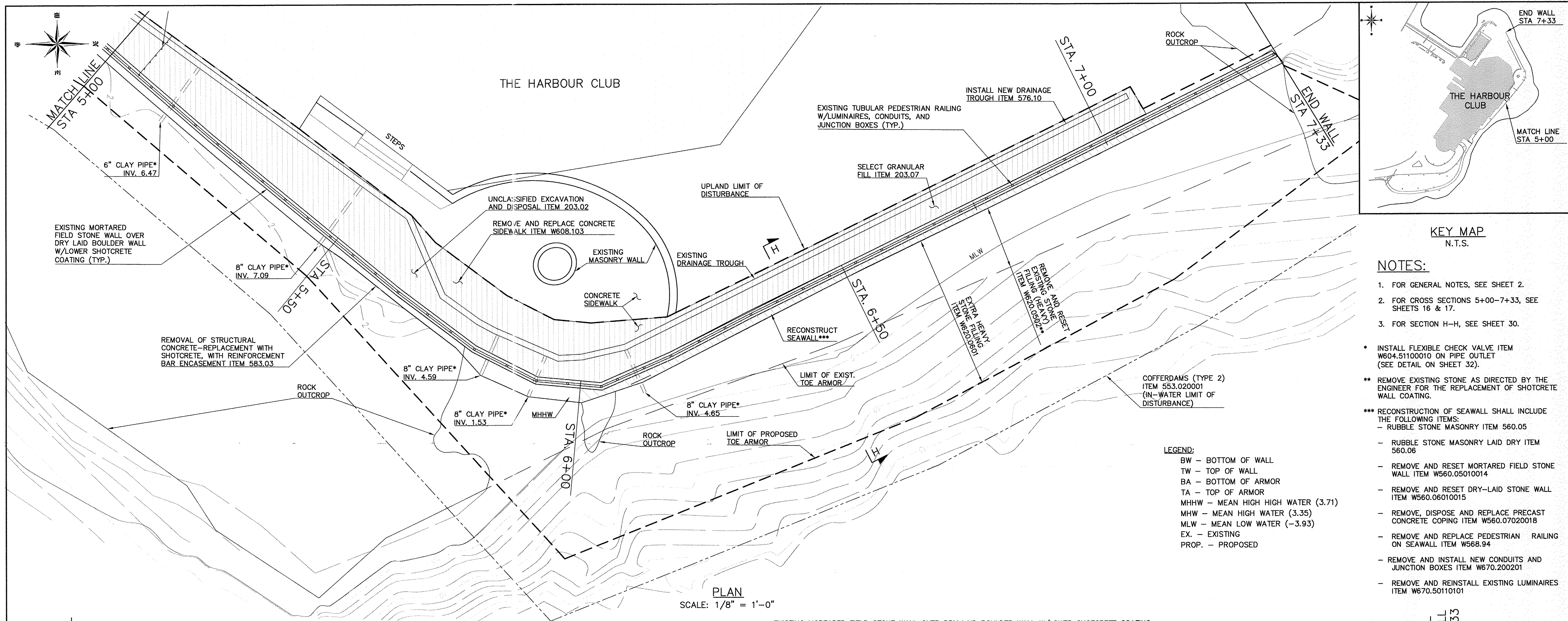
SUPERSTORM SANDY REHABILITATION
GLEN ISLAND PARK SEAWALLS AND PAVILIONS
NEW ROCHELLE, NEW YORK
LOC. 2-1 SEAWALL STA. 2+50 TO STA. 5+00

K	CONTRACT NUMBER	SHEET NUMBER
N	15-531	12

SHEET NO. 12 OF 31

SCALE: AS NOTED
DATE: MAY 2018

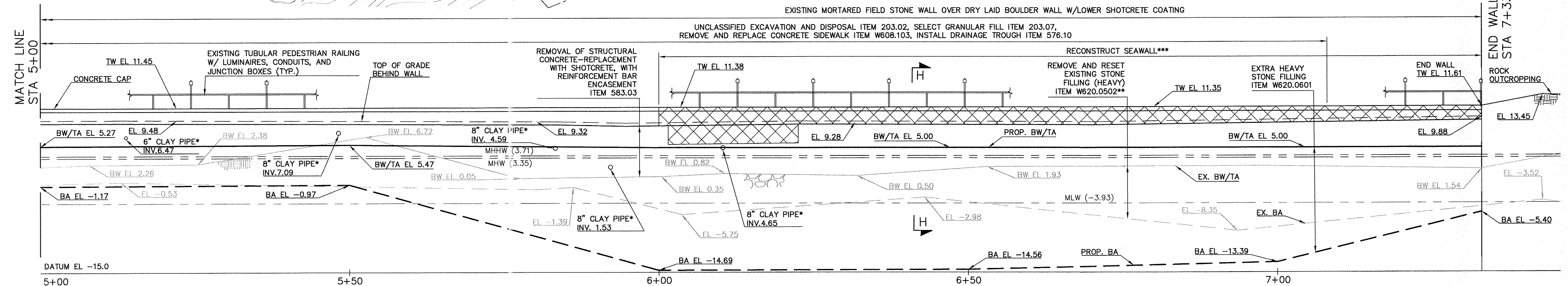
DPW FILE NO.
5-18-G-110



- KEY MAP**
N.T.S.
- NOTES:**
- FOR GENERAL NOTES, SEE SHEET 2.
 - FOR CROSS SECTIONS 5+00-7+33, SEE SHEETS 16 & 17.
 - FOR SECTION H-H, SEE SHEET 30.
- INSTALL FLEXIBLE CHECK VALVE ITEM W604.51100010 ON PIPE OUTLET (SEE DETAIL ON SHEET 32).
 - REMOVE EXISTING STONE AS DIRECTED BY THE ENGINEER FOR THE REPLACEMENT OF SHOTCRETE WALL COATING.
 - RECONSTRUCTION OF SEAWALL SHALL INCLUDE THE FOLLOWING ITEMS:
 - RUBBLE STONE MASONRY ITEM 560.05
 - RUBBLE STONE MASONRY LAID DRY ITEM 560.06
 - REMOVE AND RESET MORTARED FIELD STONE WALL ITEM W560.05010014
 - REMOVE AND RESET DRY-LAID STONE WALL ITEM W560.06010015
 - REMOVE, DISPOSE AND REPLACE PRECAST CONCRETE COPING ITEM W560.07020018
 - REMOVE AND REPLACE PEDESTRIAN RAILING ON SEAWALL ITEM W568.94
 - REMOVE AND INSTALL NEW CONDUITS AND JUNCTION BOXES ITEM W670.200201
 - REMOVE AND REINSTALL EXISTING LUMINAIRES ITEM W670.50110101

- LEGEND:**
- BW - BOTTOM OF WALL
 - TW - TOP OF WALL
 - BA - BOTTOM OF ARMOR
 - TA - TOP OF ARMOR
 - MHHW - MEAN HIGH HIGH WATER (3.71)
 - MHW - MEAN HIGH WATER (3.35)
 - MLW - MEAN LOW WATER (-3.93)
 - EX - EXISTING
 - PROP. - PROPOSED

PLAN
SCALE: 1/8" = 1'-0"



ELEVATION
SCALE: 1/8" = 1'-0"

UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF J. R. VALENTIN, P.E.
CHECKED BY J. R. VALENTIN, P.E.
MADE BY C. LINO

REVISION	DATE	MADE	APP'D	REVISION

RECORD DRAWING CERTIFICATION

☐ AS BUILT - CHANGES AS NOTED
☐ AS BUILT - NO CHANGES

CONTRACTOR

NAME _____
SIGNATURE _____
TITLE _____ DATE _____

PROJECT COORDINATOR

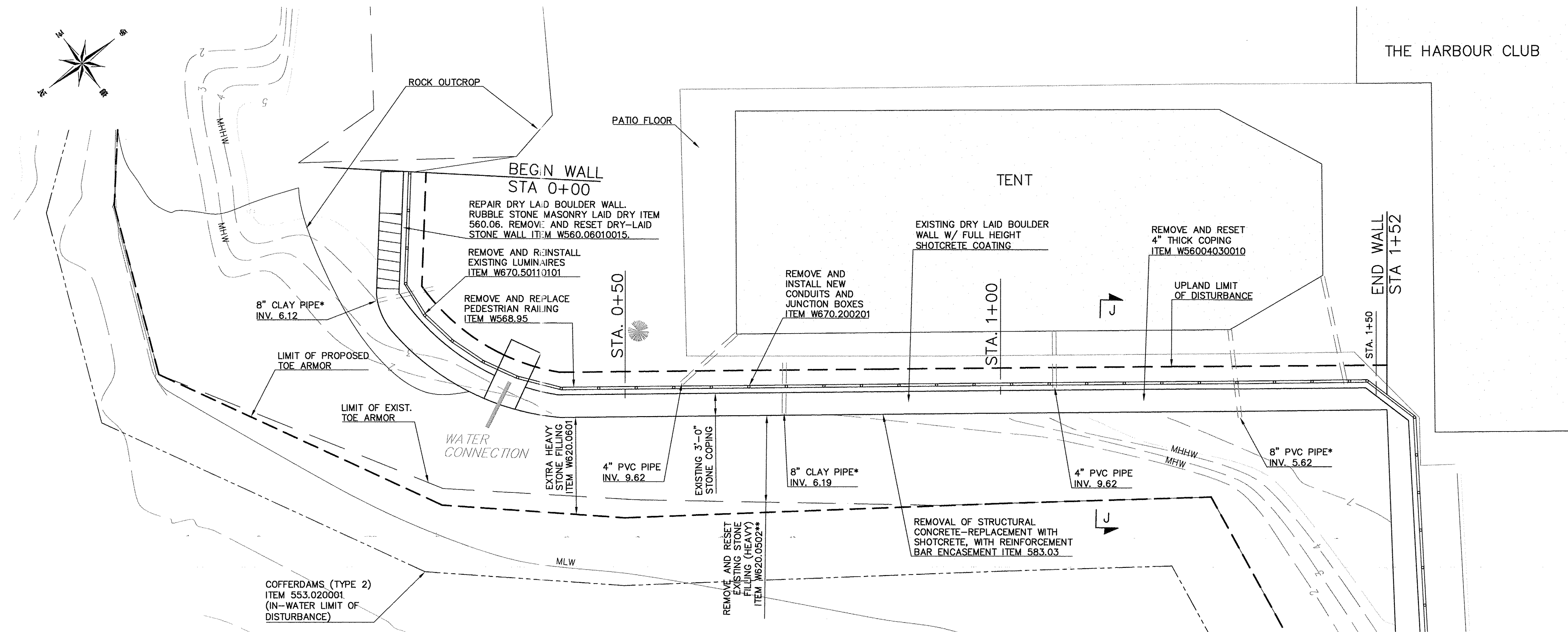
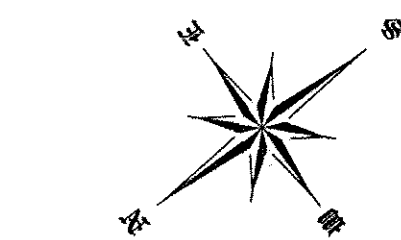
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SIGNATURE _____
TITLE _____ DATE _____

Boswell ENGINEERING
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330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
TEL: (201) 641-0770 • FAX: (201) 641-1831
N.J. CERTIFICATE OF AUTHORIZATION NO. 246A27958000

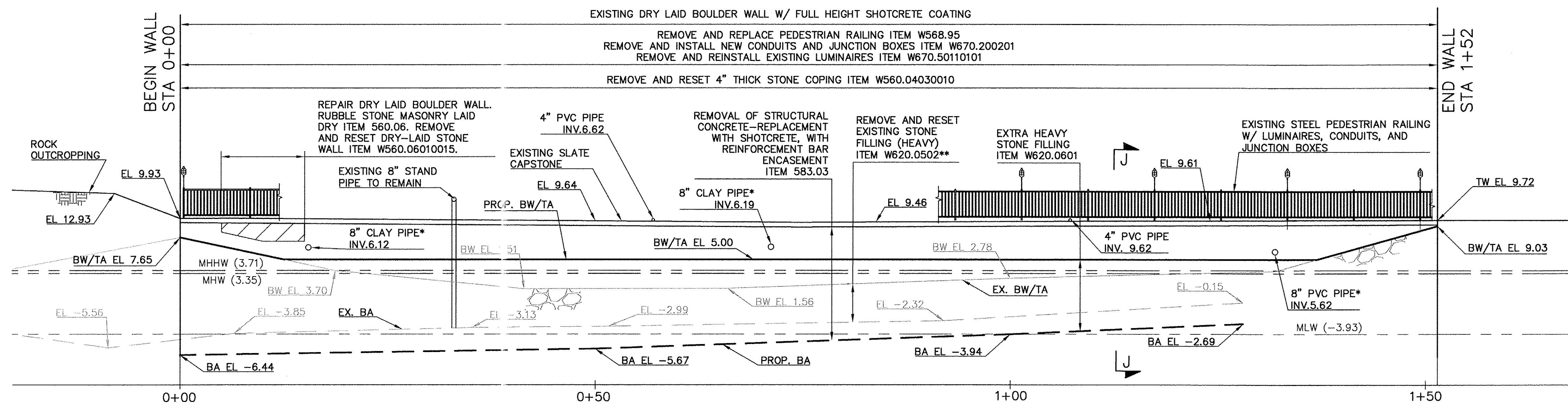
WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

SUPERSTORM SANDY REHABILITATION
GLEN ISLAND PARK SEAWALLS AND PAVILIONS
NEW ROCHELLE, NEW YORK
LOC. 2-1 SEAWALL STA. 5+00 TO STA. 7+33

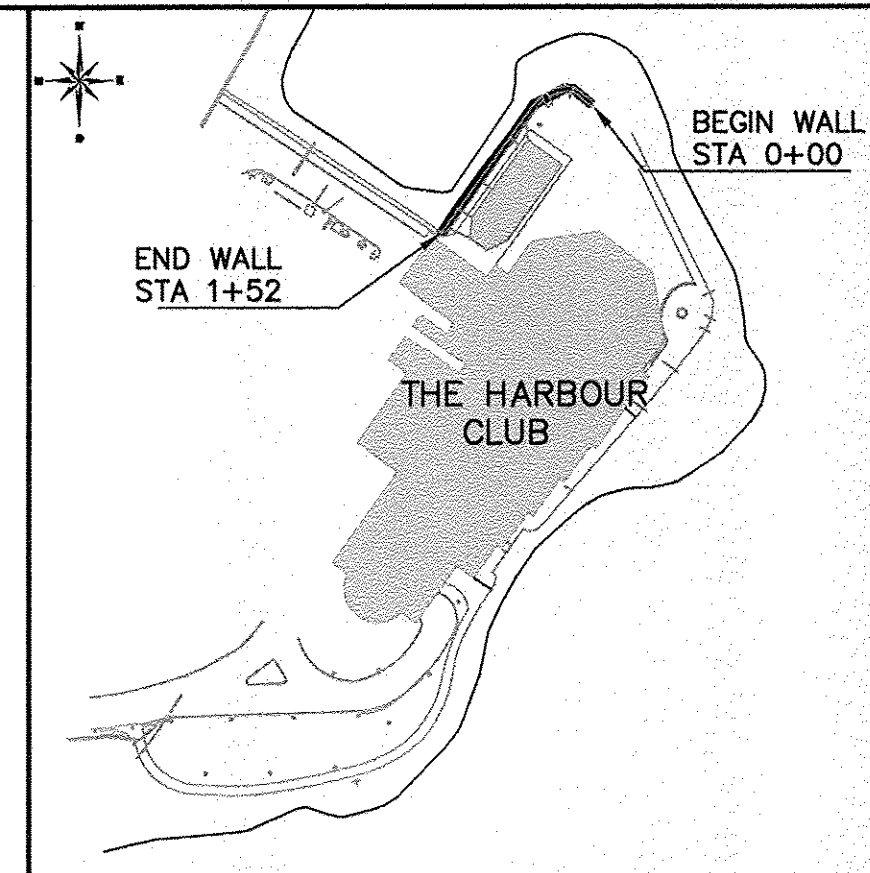
CONTRACT NUMBER 15-531	SHEET NUMBER 13
SHEET NO. 13 OF 34	
SCALE: AS NOTED DATE: MAY 2018	
DPW FILE NO. 5-18-G-111	REV. NO. 0



PLAN
SCALE: 1/8" = 1'-0"



ELEVATION
SCALE: 1/8" = 1'-0"



KEY MAP
N.T.S.

NOTES:

1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR CROSS SECTIONS 0+00-1+52, SEE SHEET 18.
3. FOR SECTION J-J, SEE SHEET 30.

- * INSTALL FLEXIBLE CHECK VALVE ITEM W604.51100010 ON PIPE OUTLET (SEE DETAIL ON SHEET 32).
- ** REMOVE EXISTING STONE AS DIRECTED BY THE ENGINEER FOR THE REPLACEMENT OF SHOTCRETE WALL COATING.

LEGEND:

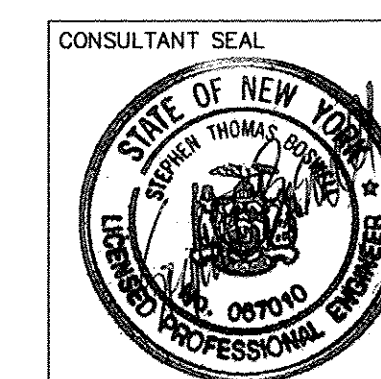
- BW - BOTTOM OF WALL
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MHHW - MEAN HIGH HIGH WATER (3.71)
MHW - MEAN HIGH WATER (3.35)
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EX. - EXISTING
PROP. - PROPOSED

UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF J. R. VALENTIN, P.E.
CHECKED BY J. R. VALENTIN, P.E.
MADE BY C. LINO

REVISION	DATE	MADE	APP'D

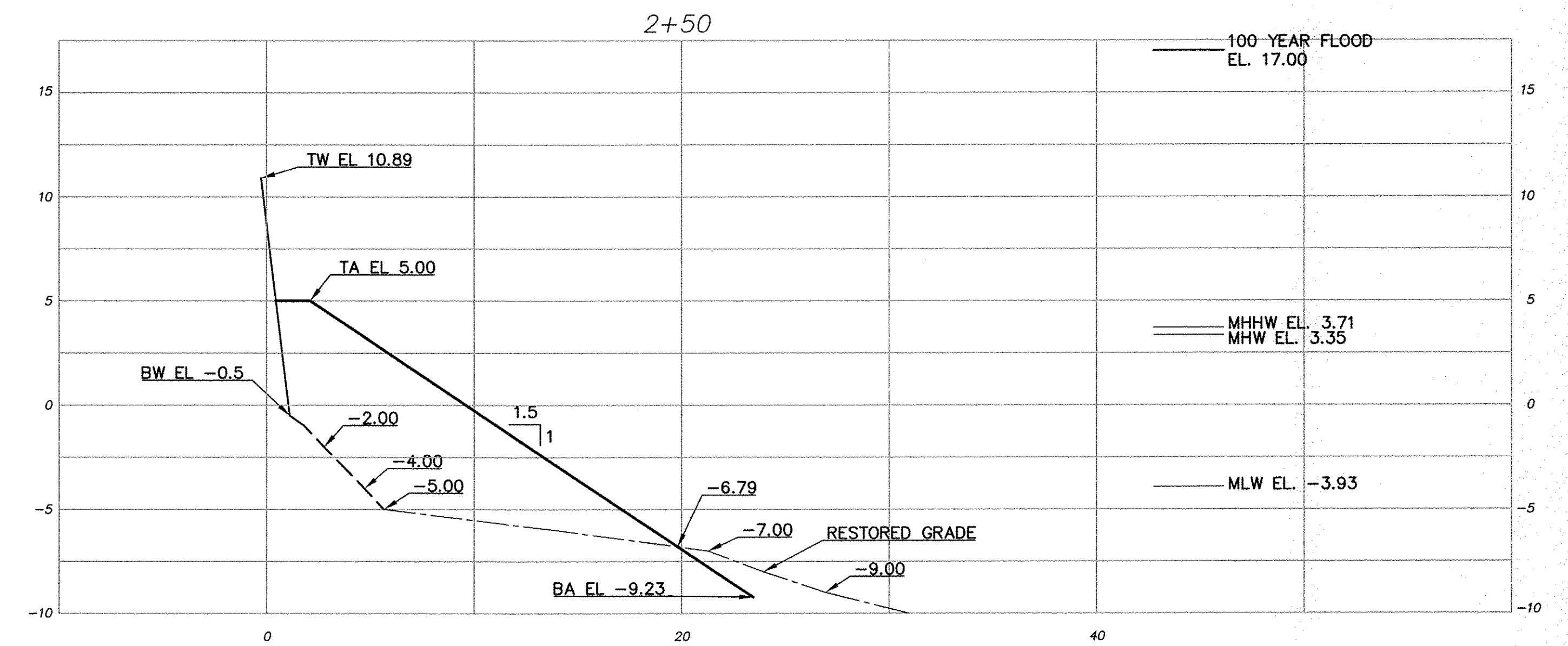
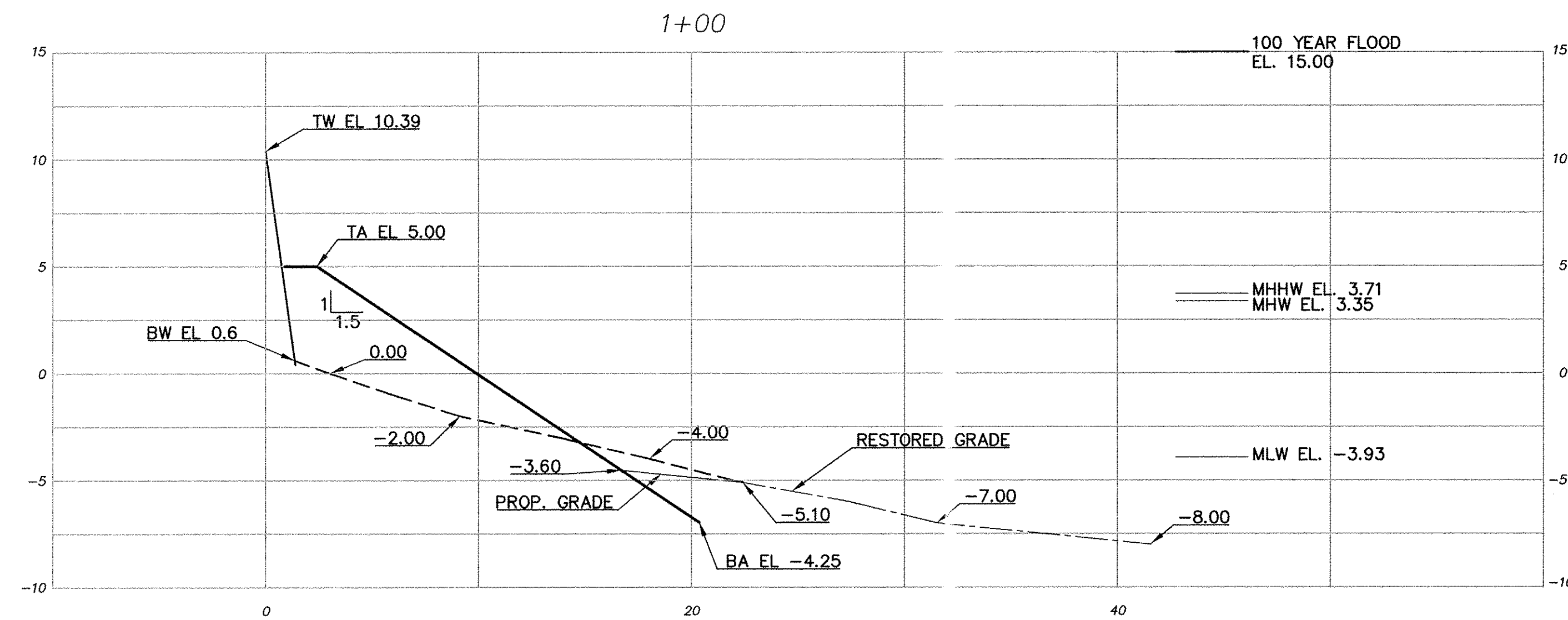
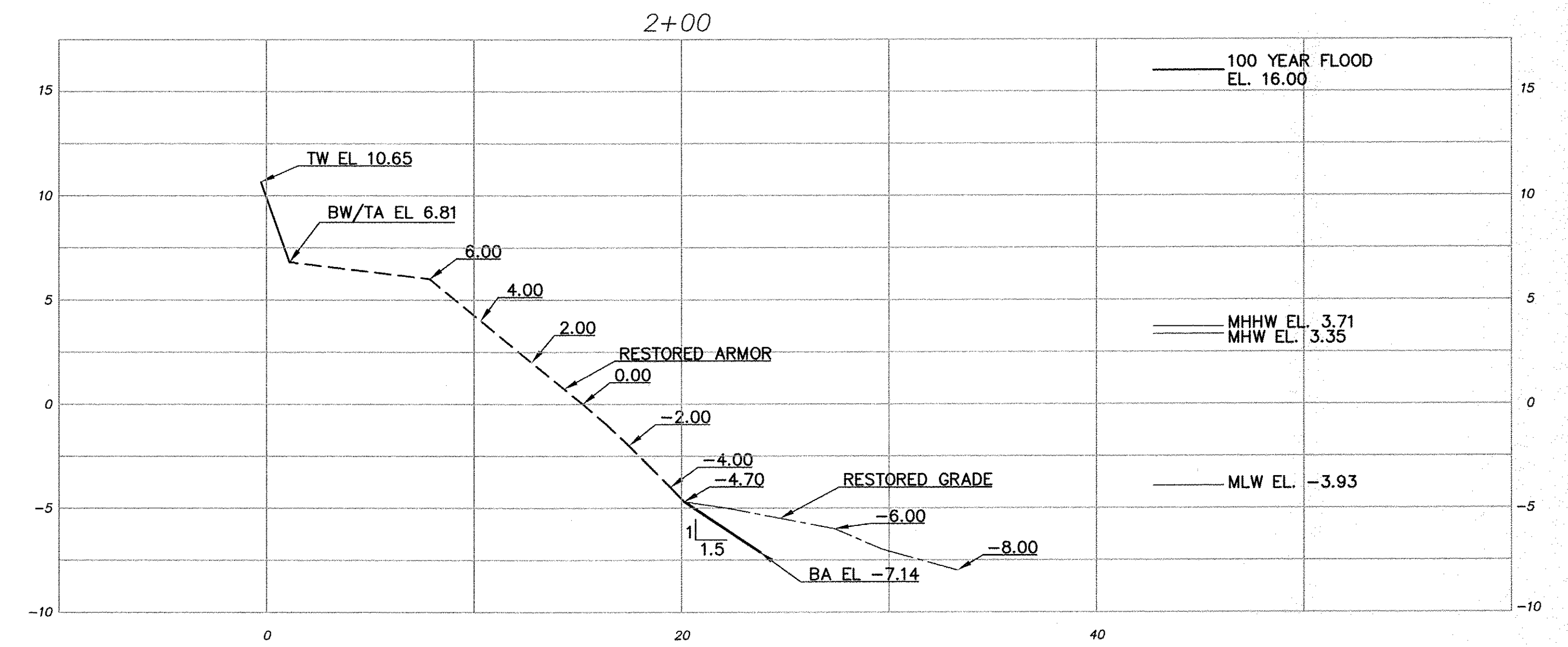
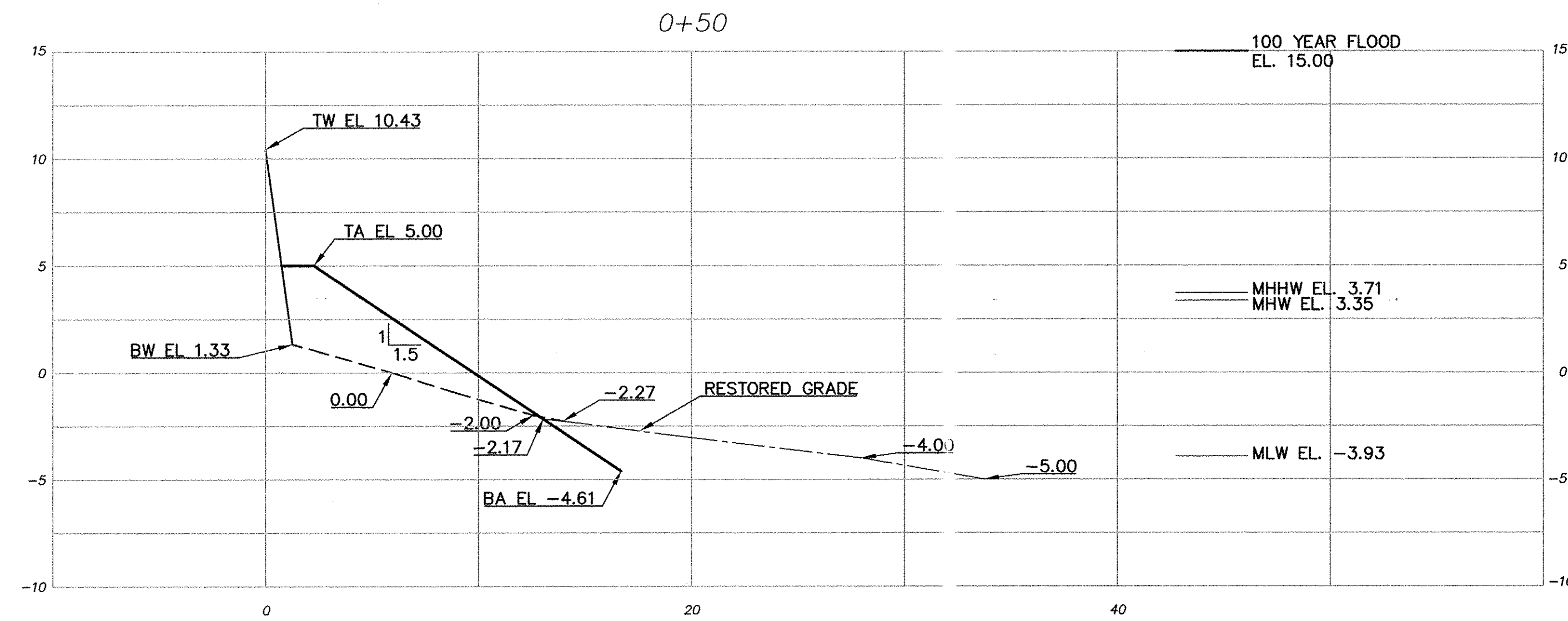
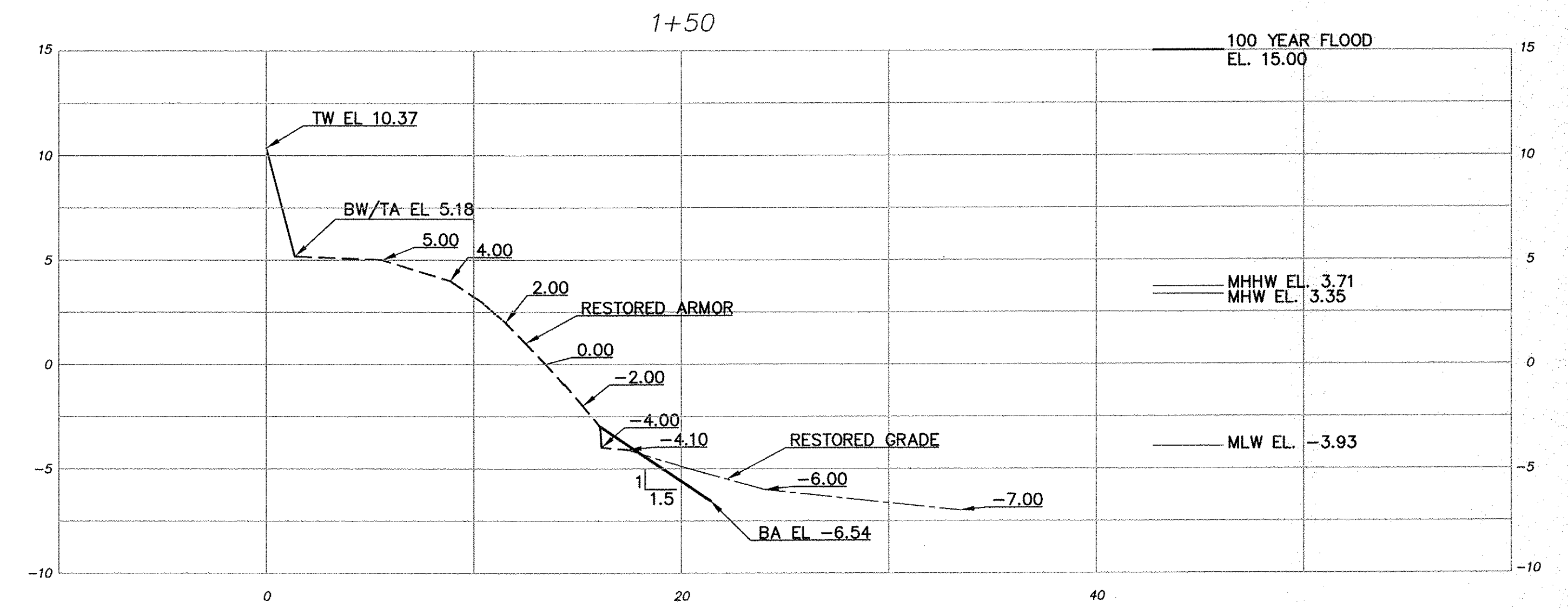
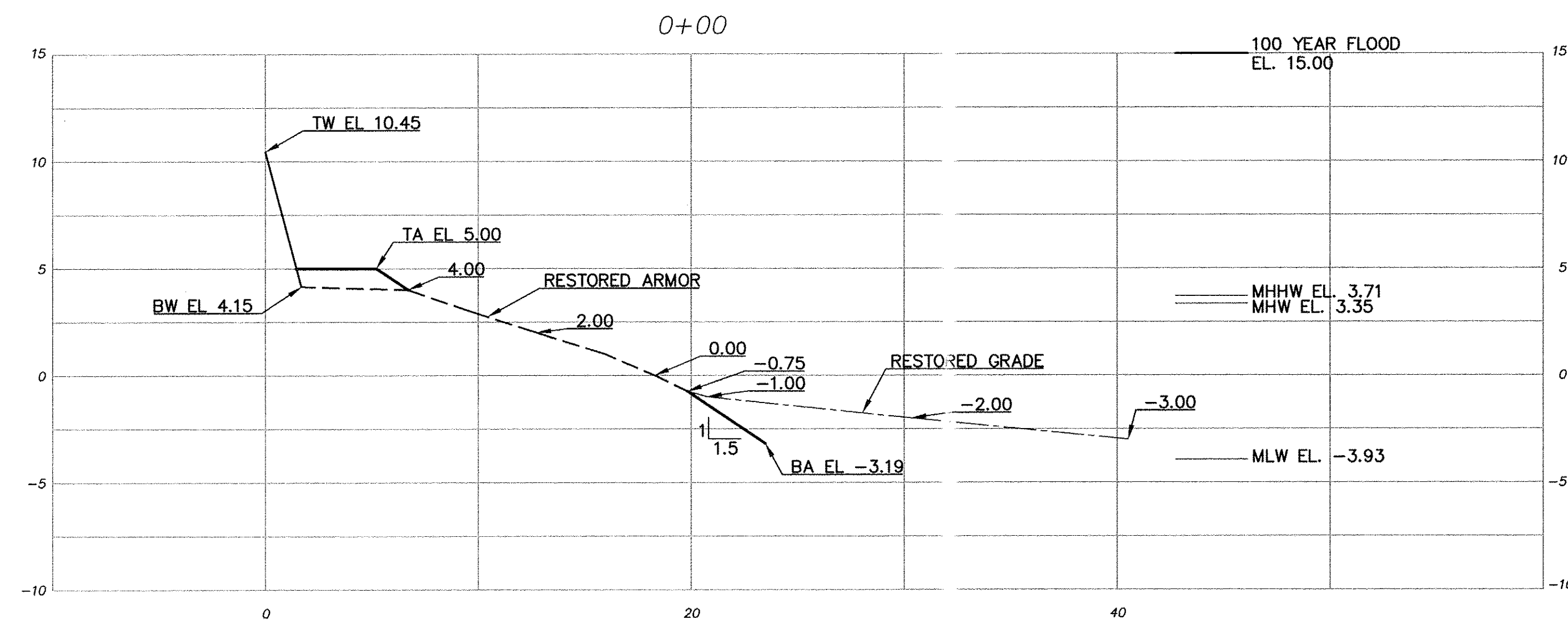
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CONTRACTOR		PROJECT COORDINATOR	
NAME		NAME	
SIGNATURE		SIGNATURE	
TITLE		TITLE	
DATE		DATE	



CONSULTANT INFORMATION

Boswell ENGINEERING
ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
TEL: (201) 641-0770 • FAX: (201) 641-1831
N.J. CERTIFICATE OF AUTHORIZATION NO. 246A27958000

WESTCHESTER COUNTY, NEW YORK		CONTRACT NUMBER	SHEET NUMBER
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		15-531	14
DIVISION OF ENGINEERING		SHEET NO. 14 OF 34	
SUPERSTORM SANDY REHABILITATION		SCALE: AS NOTED	
GLEN ISLAND PARK SEAWALLS AND PAVILIONS		DATE: MAY 2018	
NEW ROCHELLE, NEW YORK		DPW FILE NO.	
LOC. 2-2 SEAWALL STA.0+00 TO STA. 1+52		5-18-G-112	REV. NO. 0



LEGEND:

PROPOSED TOE ARMOR ———
EXISTING TOE ARMOR - - - - -
EXISTING GRADE ———
BW — BOTTOM OF WALL (EXPOSED)
TW — TOP OF WALL

BA — BOTTOM OF ARMOR
TA — TOP OF ARMOR
MHHW — MEAN HIGH HIGH WATER
MHW — MEAN HIGH WATER
MLW — MEAN LOW WATER

NOTES:

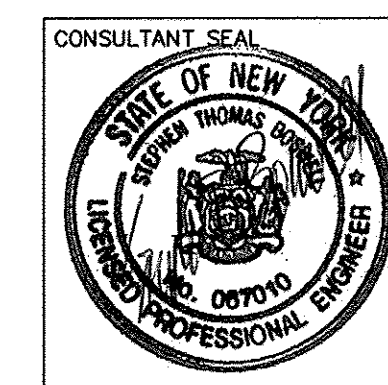
- FOR GENERAL NOTES, SEE SHEET 2.
- FOR LOCATIONS OF CROSS SECTIONS 0+00-2+50, SEE SHEET 11.

UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF J. R. VALENTIN, P.E.
CHECKED BY J. R. VALENTIN, P.E.
MADE BY C. LINO

REVISION	DATE	MADE	APP'D	REVISION
1	5/5/17	JEM	JRV	AS PER NYDEC/ACOE COMMENTS

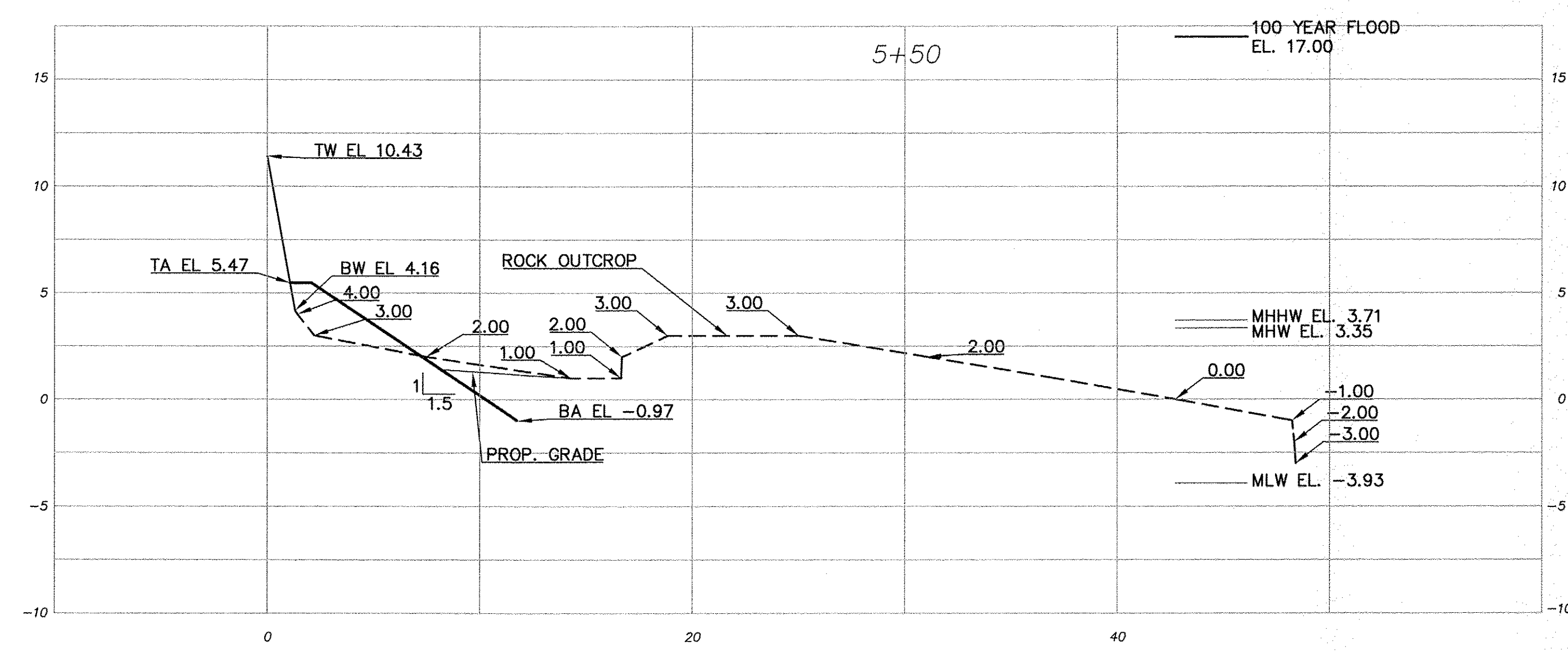
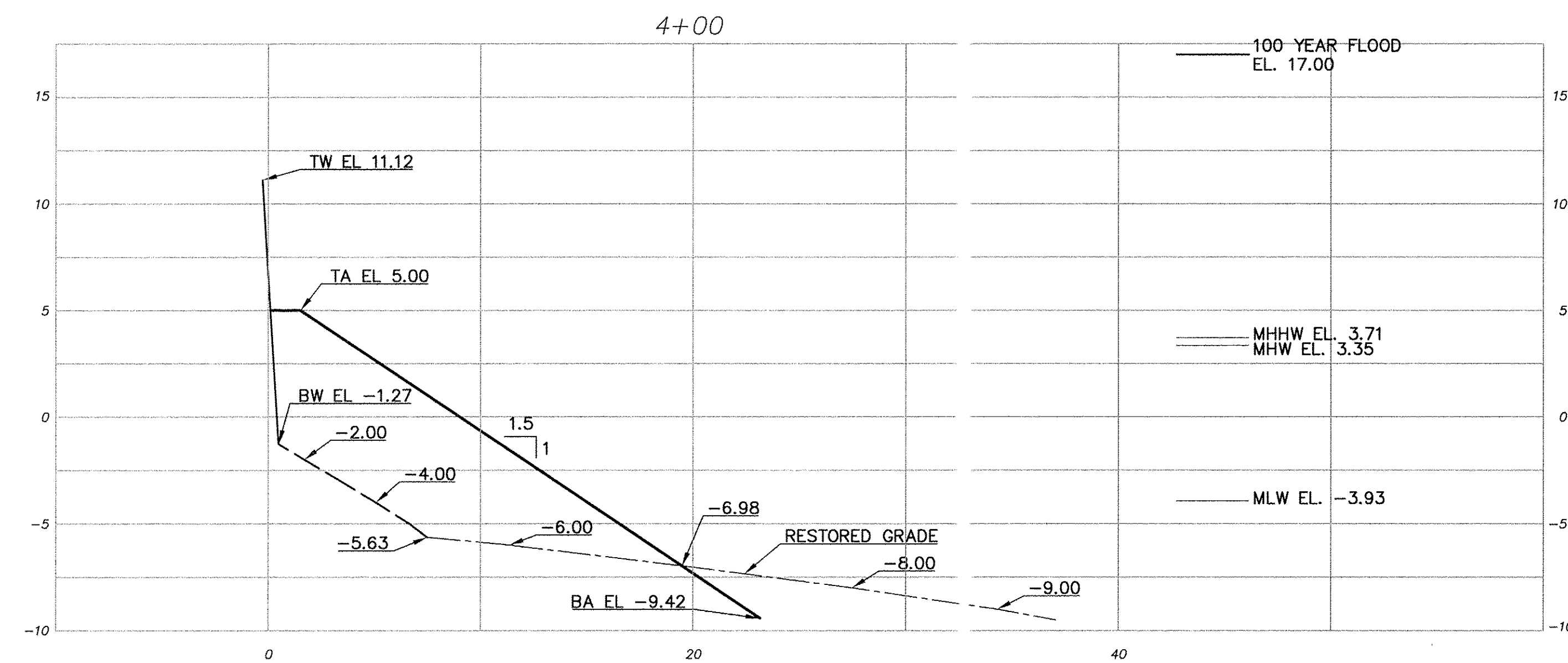
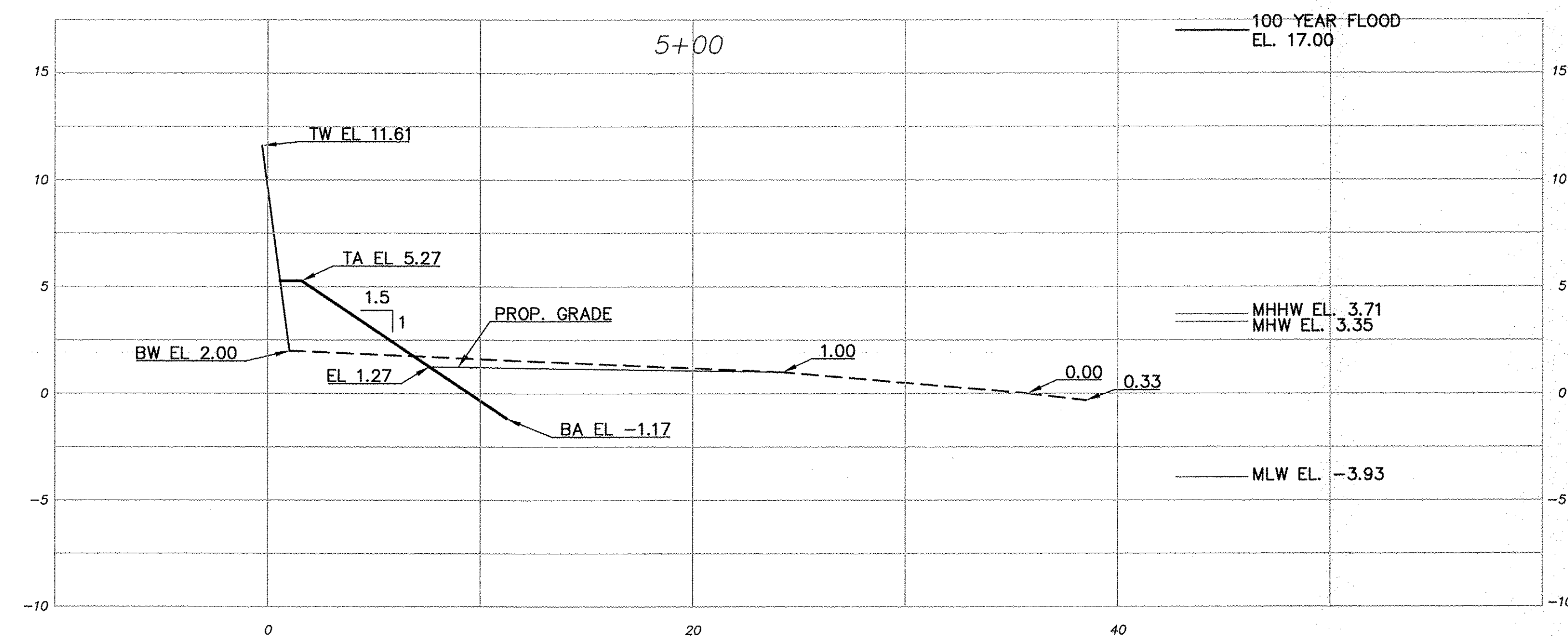
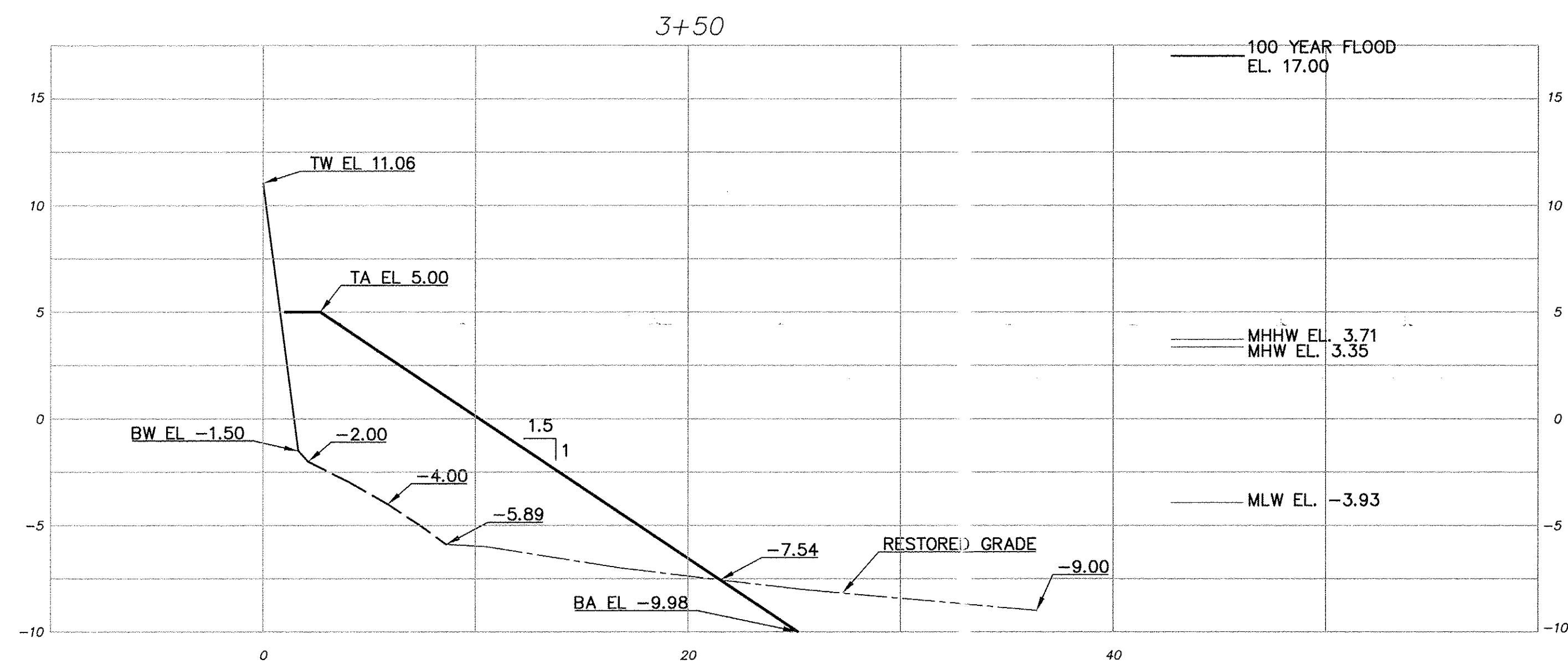
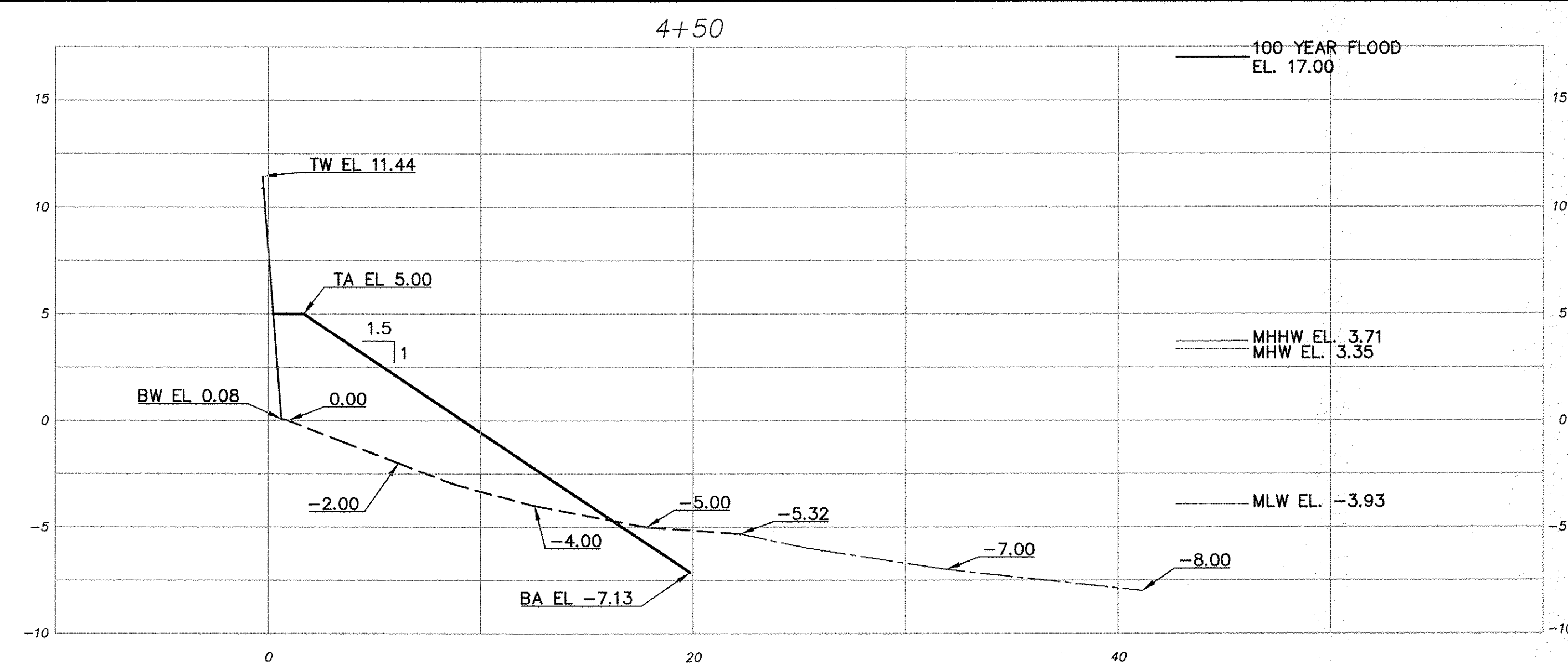
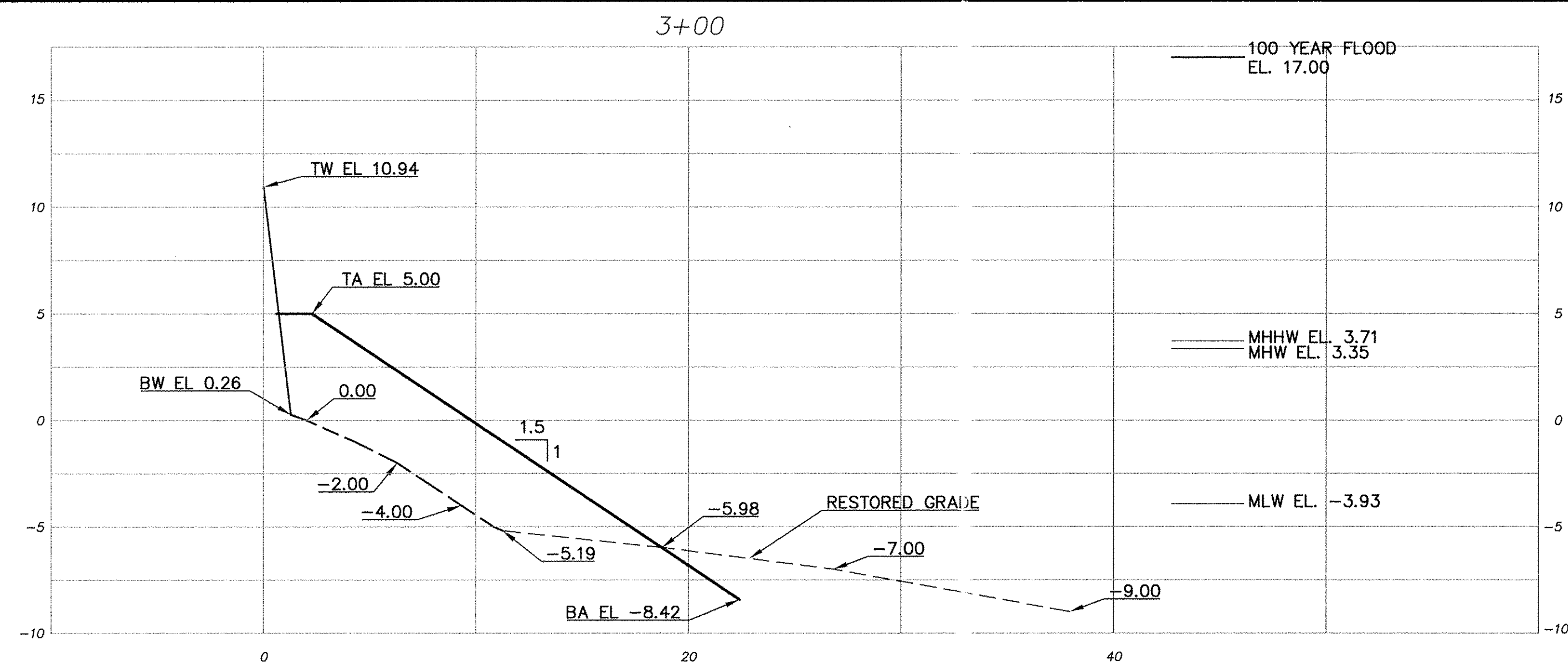
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CONTRACTOR		PROJECT COORDINATOR	
NAME		NAME	
SIGNATURE		SIGNATURE	
TITLE		TITLE	



CONSULTANT INFORMATION

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ENGINEERS — SURVEYORS — PLANNERS — SCIENTISTS
330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
TEL: (201) 641-0770 • FAX: (201) 641-1831
N.J. CERTIFICATE OF AUTHORIZATION NO. 246A27958000

WESTCHESTER COUNTY, NEW YORK		CONTRACT NUMBER	SHEET NUMBER
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		15-531	15
DIVISION OF ENGINEERING		SHEET NO. 15 OF 34	
SUPERSTORM SANDY REHABILITATION		SCALE: AS NOTED	
GLEN ISLAND PARK SEAWALLS AND PAVILIONS		DATE: MAY 2018	
NEW ROCHELLE, NEW YORK		DPW FILE NO.	
LOC. 2-1 STA. 0+00 TO STA. 2+50—CROSS SECTIONS		5-18-G-113	REV. NO. 0



LEGEND:
 PROPOSED TOE ARMOR ———
 EXISTING TOE ARMOR - - - - -
 EXISTING GRADE - - - - -
 BW — BOTTOM OF WALL (EXPOSED)
 TW — TOP OF WALL
 BA — BOTTOM OF ARMOR
 TA — TOP OF ARMOR
 MHHW — MEAN HIGH HIGH WATER
 MHW — MEAN HIGH WATER
 MLW — MEAN LOW WATER

NOTES:

- FOR GENERAL NOTES, SEE SHEET 2.
- FOR LOCATIONS OF CROSS SECTIONS 3+00-5+00, SEE SHEET 12.
- FOR LOCATION OF CROSS SECTION 5+50, SEE SHEET 13.

UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF J. R. VALENTIN, P.E.
 CHECKED BY J. R. VALENTIN, P.E.
 MADE BY C. LINO

REVISION	DATE	MADE	APP'D	REVISION
1	5/5/17	JEM	JRV	AS PER NYDEC/ACOE COMMENTS

RECORD DRAWING CERTIFICATION

☐ AS BUILT — CHANGES AS NOTED
☐ AS BUILT — NO CHANGES

CONTRACTOR
 NAME _____
 SIGNATURE _____
 TITLE _____ DATE _____

PROJECT COORDINATOR

NAME _____
 SIGNATURE _____
 TITLE _____ DATE _____



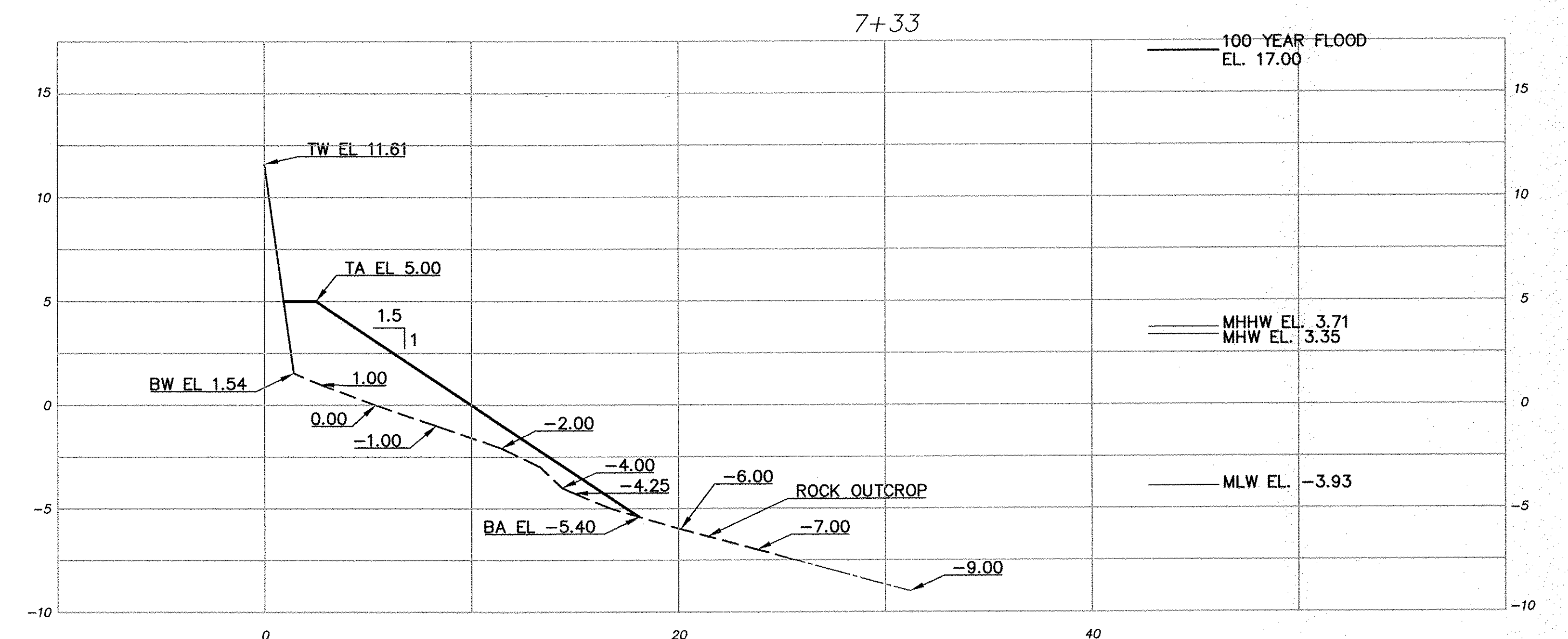
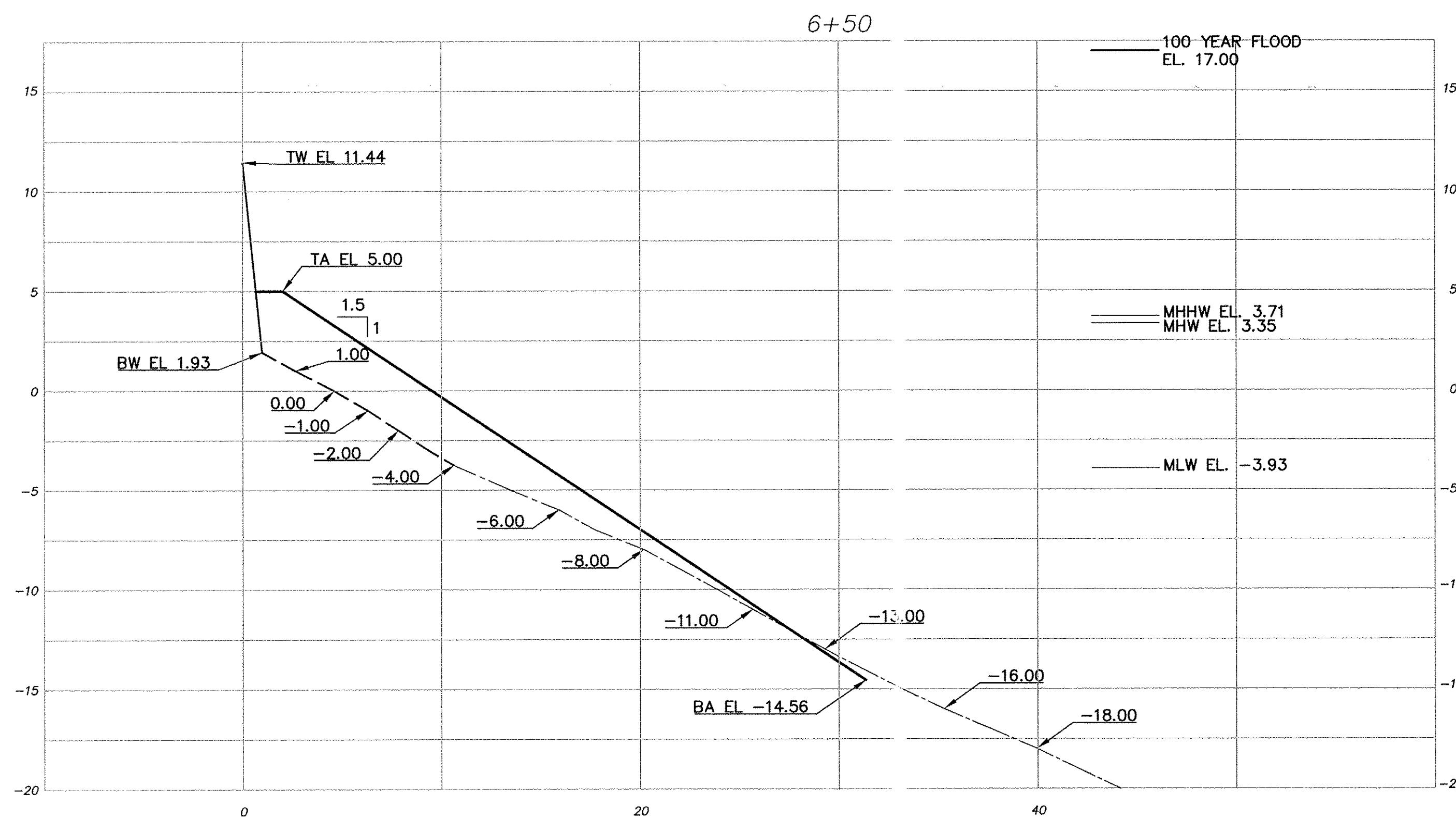
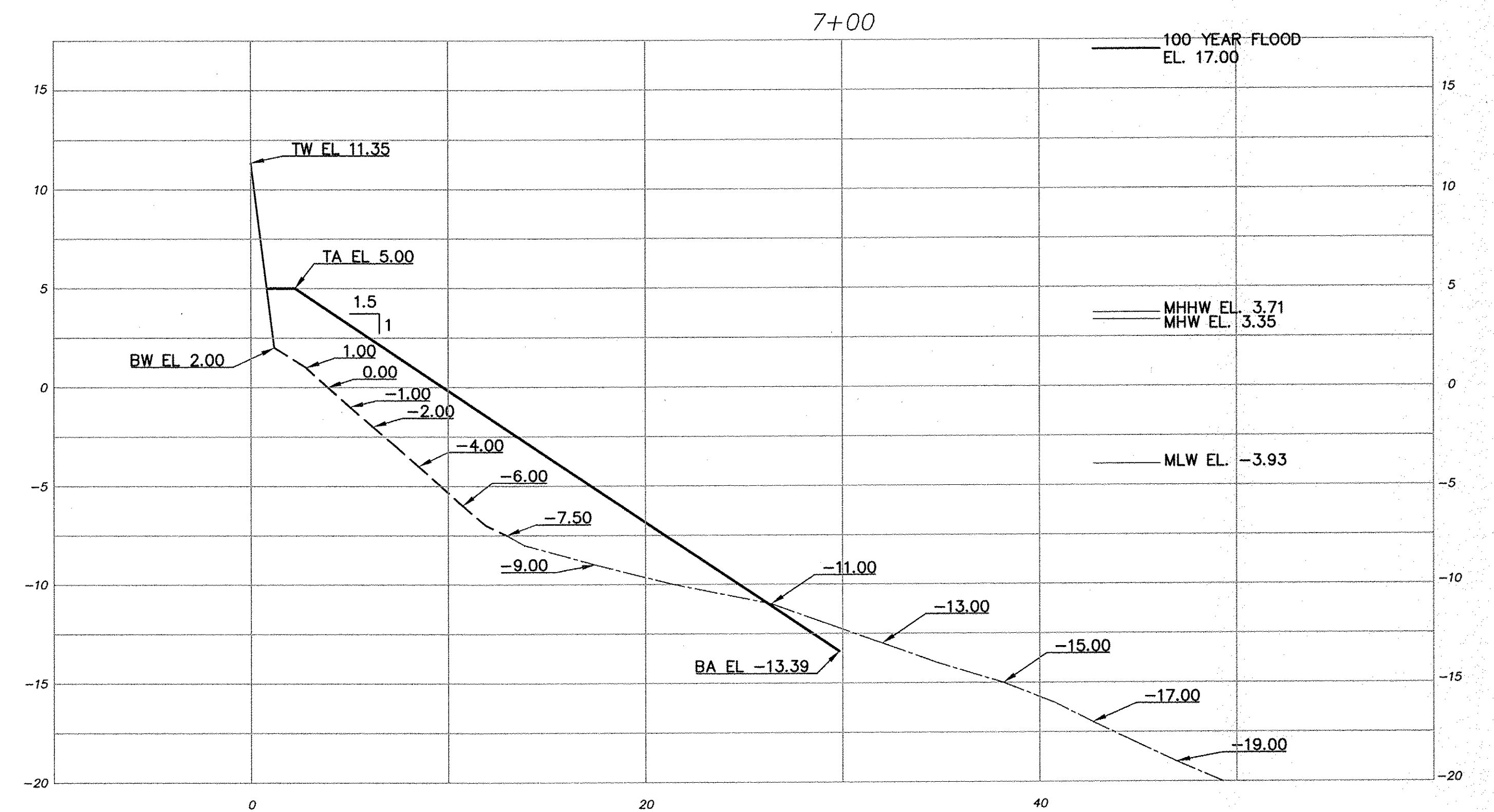
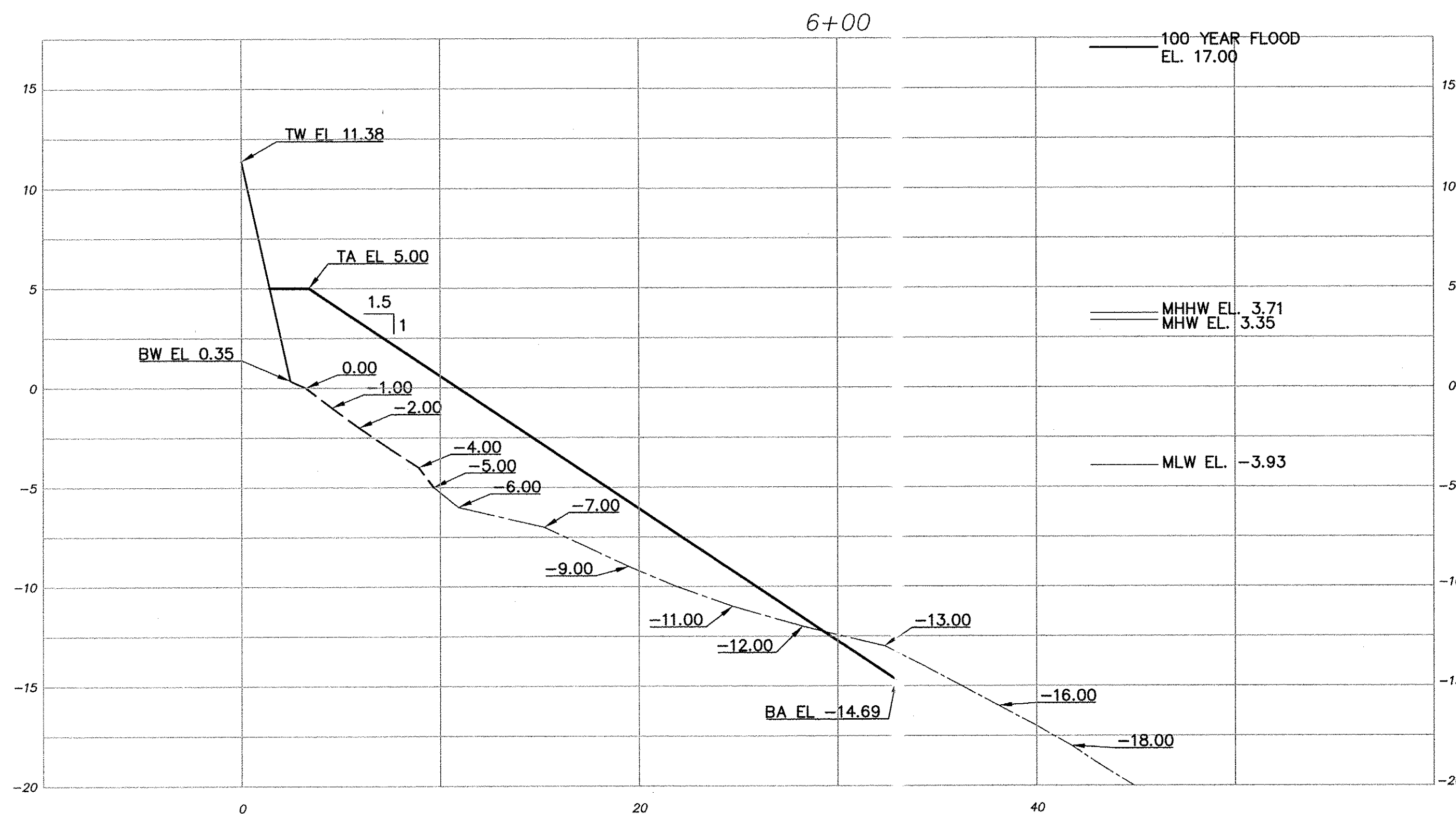
CONSULTANT INFORMATION

Boswell ENGINEERING
 ENGINEERS — SURVEYORS — PLANNERS — SCIENTISTS
 330 PHILIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
 TEL: (201) 641-0770 • FAX: (201) 641-1831
 N.J. CERTIFICATE OF AUTHORIZATION NO. 246A27988000

WESTCHESTER COUNTY, NEW YORK
 DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
 DIVISION OF ENGINEERING

SUPERSTORM SANDY REHABILITATION
 GLEN ISLAND PARK SEAWALLS AND PAVILIONS
 NEW ROCHELLE, NEW YORK
 LOC. 2-1 STA. 3+00 TO STA. 5+50—CROSS SECTIONS

CONTRACT NUMBER 15-531 SHEET NUMBER 16
 SHEET NO. 16 OF 34
 SCALE: AS NOTED
 DATE: MAY 2018
 DPW FILE NO. 5-18-G-114
 REV. NO. 0



LEGEND:

PROPOSED TOE ARMOR ———
EXISTING TOE ARMOR - - - - -
EXISTING GRADE - - - - -
BW - BOTTOM OF WALL (EXPOSED)
TW - TOP OF WALL

BA - BOTTOM OF ARMOR
TA - TOP OF ARMOR
MHHW - MEAN HIGH HIGH WATER
MHW - MEAN HIGH WATER
MLW - MEAN LOW WATER

NOTES:


- FOR GENERAL NOTES, SEE SHEET 2.
- FOR LOCATIONS OF CROSS SECTIONS 6+00-7+33, SEE SHEET 13.

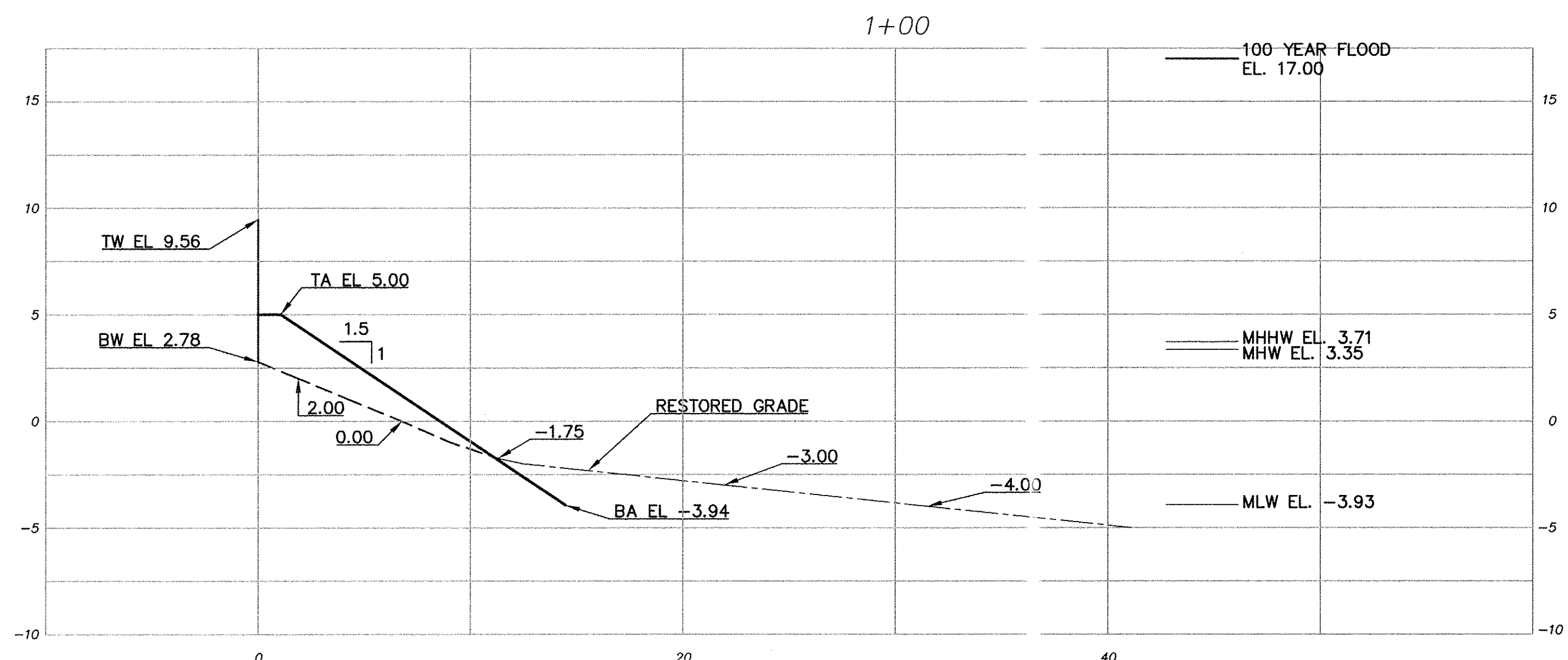
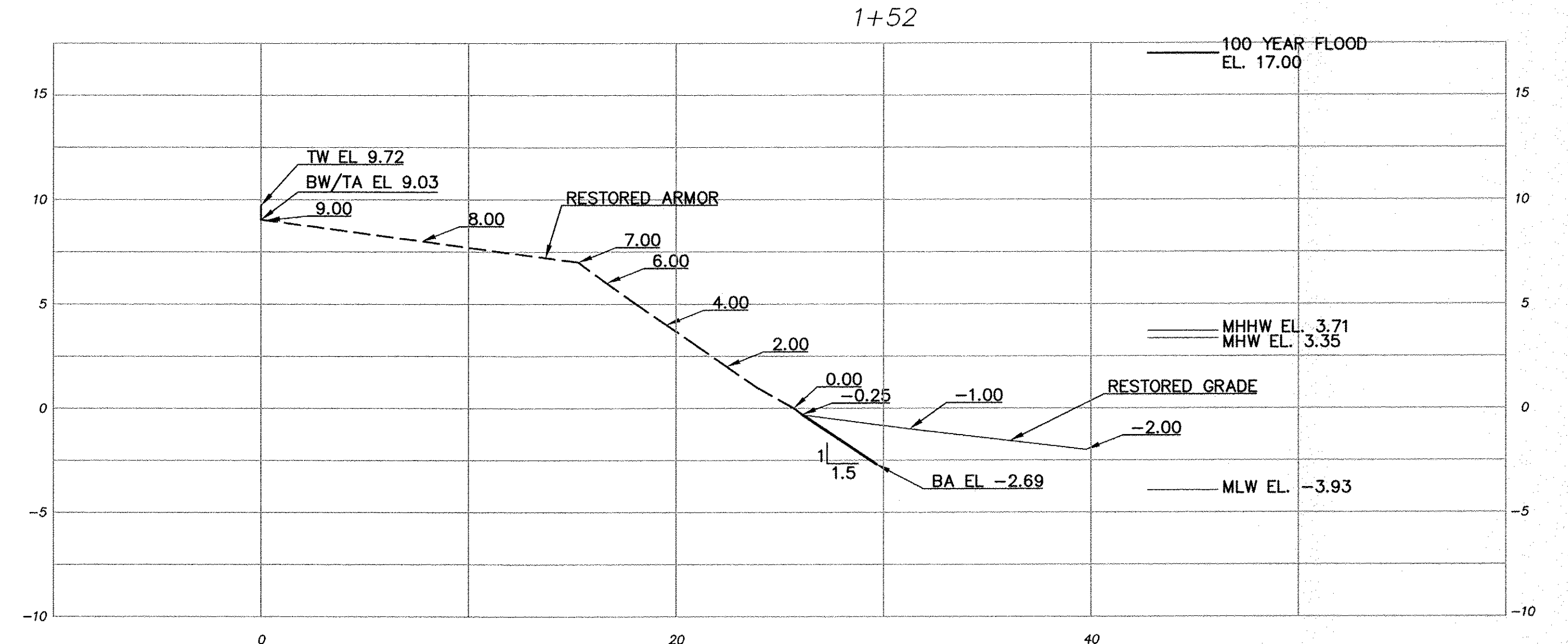
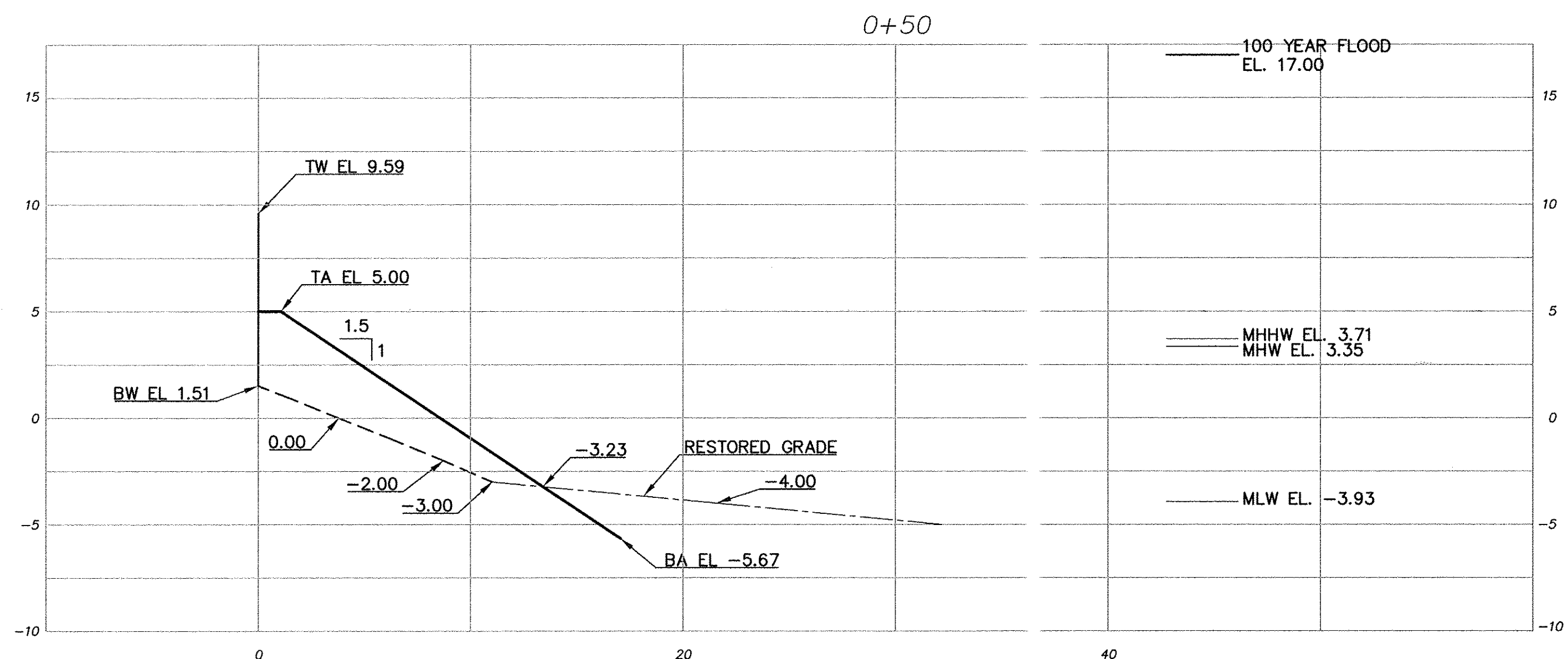
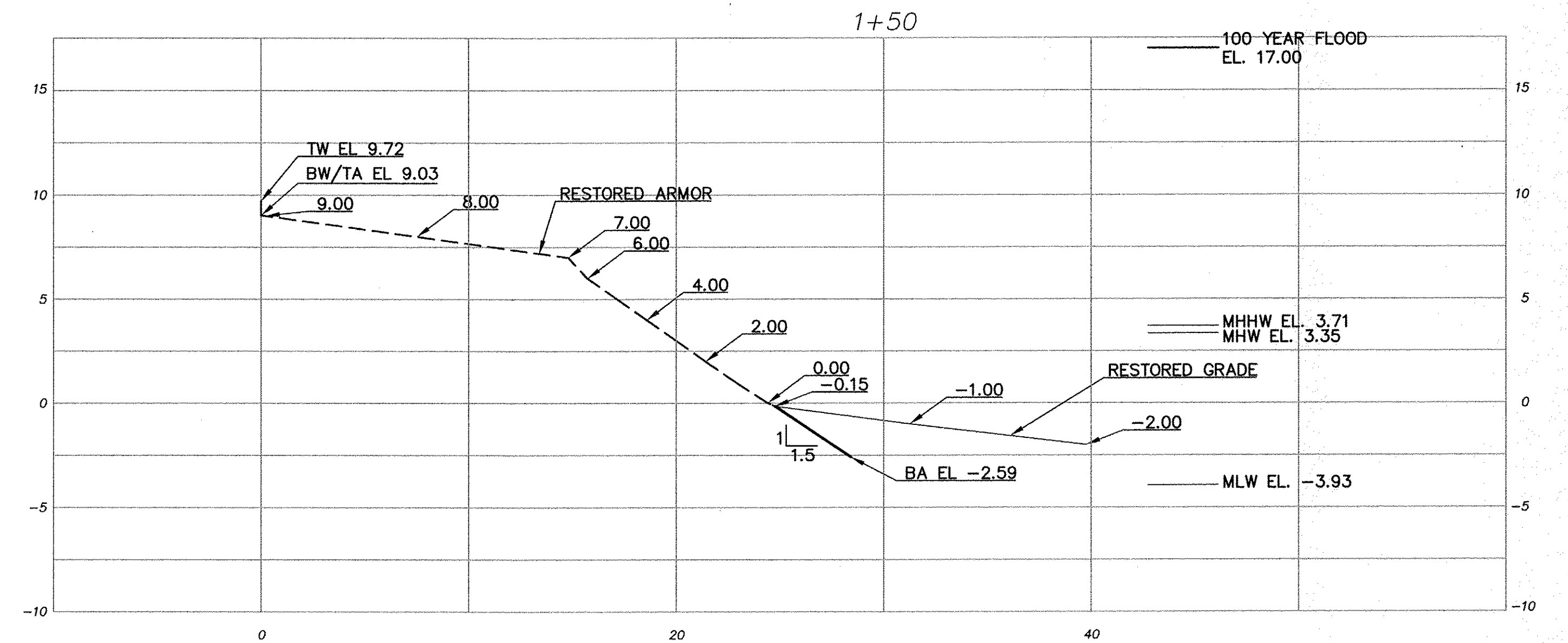
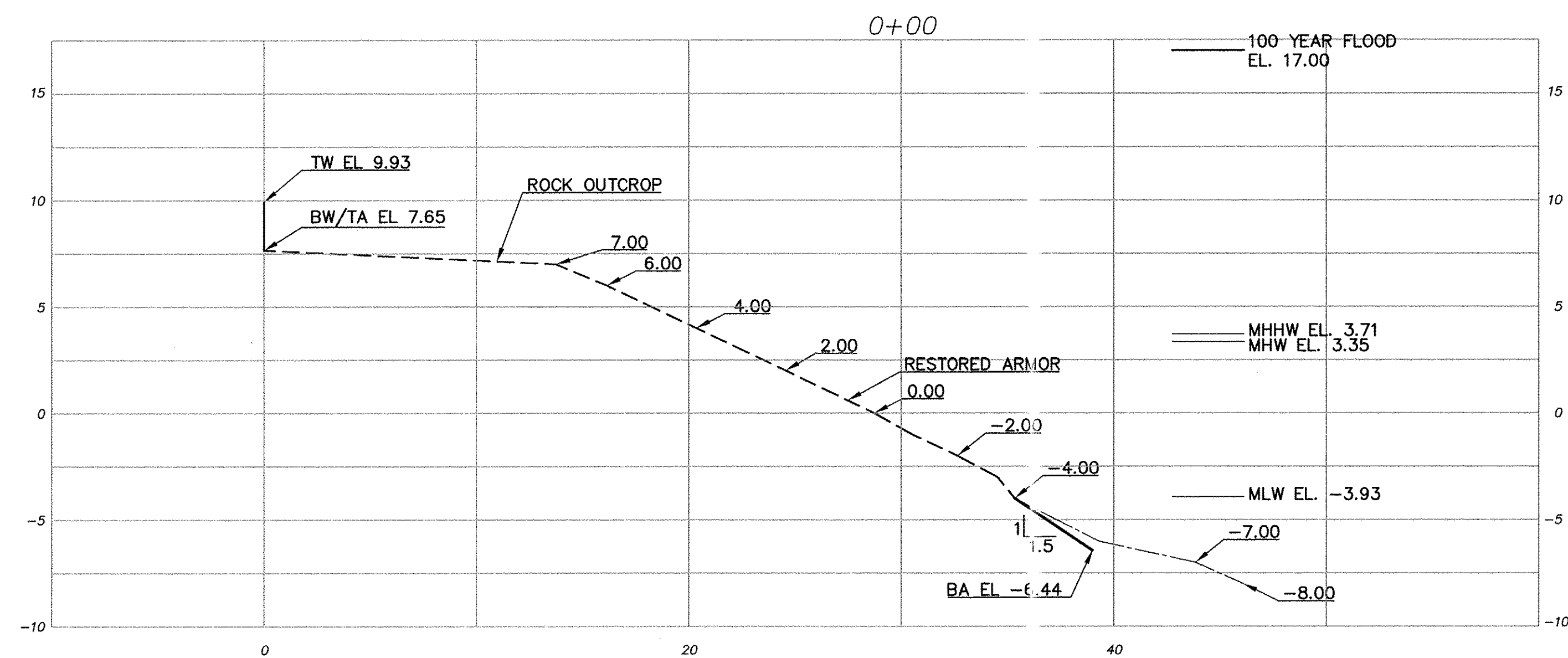
UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF J. R. VALENTIN, P.E.
CHECKED BY J. R. VALENTIN, P.E.
MADE BY C. LINO

REVISION	DATE	MADE	APP'D	REVISION
1	5/5/17	JEM	JRV	AS PER NYDEC/ACOE COMMENTS

RECORD DRAWING CERTIFICATION			
<input type="checkbox"/>	AS BUILT - CHANGES AS NOTED		
<input type="checkbox"/>	AS BUILT - NO CHANGES		
CONTRACTOR		PROJECT COORDINATOR	
NAME		NAME	
SIGNATURE		SIGNATURE	
TITLE		TITLE	

		Boswell Engineering ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS 330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606 TEL: (201) 641-0770 • FAX: (201) 641-1831 N.J. CERTIFICATE OF AUTHORIZATION NO. 246A27958000	
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 15-531	SHEET NUMBER 17
SUPERSTORM SANDY REHABILITATION GLEN ISLAND PARK SEAWALLS AND PAVILIONS NEW ROCHELLE, NEW YORK LOC. 2-1 STA. 6+00 TO STA. 7+33-CROSS SECTIONS		SHEET NO. 17 OF 34 SCALE: AS NOTED DATE: MAY 2018 DPW FILE NO.	REV. NO. 0



LEGEND:
 PROPOSED TOE ARMOR ———
 EXISTING TOE ARMOR - - - - -
 EXISTING GRADE - - - - -
 BW - BOTTOM OF WALL (EXPOSED)
 TW - TOP OF WALL
 BA - BOTTOM OF ARMOR
 TA - TOP OF ARMOR
 MHHW - MEAN HIGH HIGH WATER
 MHW - MEAN HIGH WATER
 MLW - MEAN LOW WATER

NOTES:

- FOR GENERAL NOTES, SEE SHEET 2.
- FOR LOCATIONS OF CROSS SECTIONS 0+00-1+52, SEE SHEET 14.

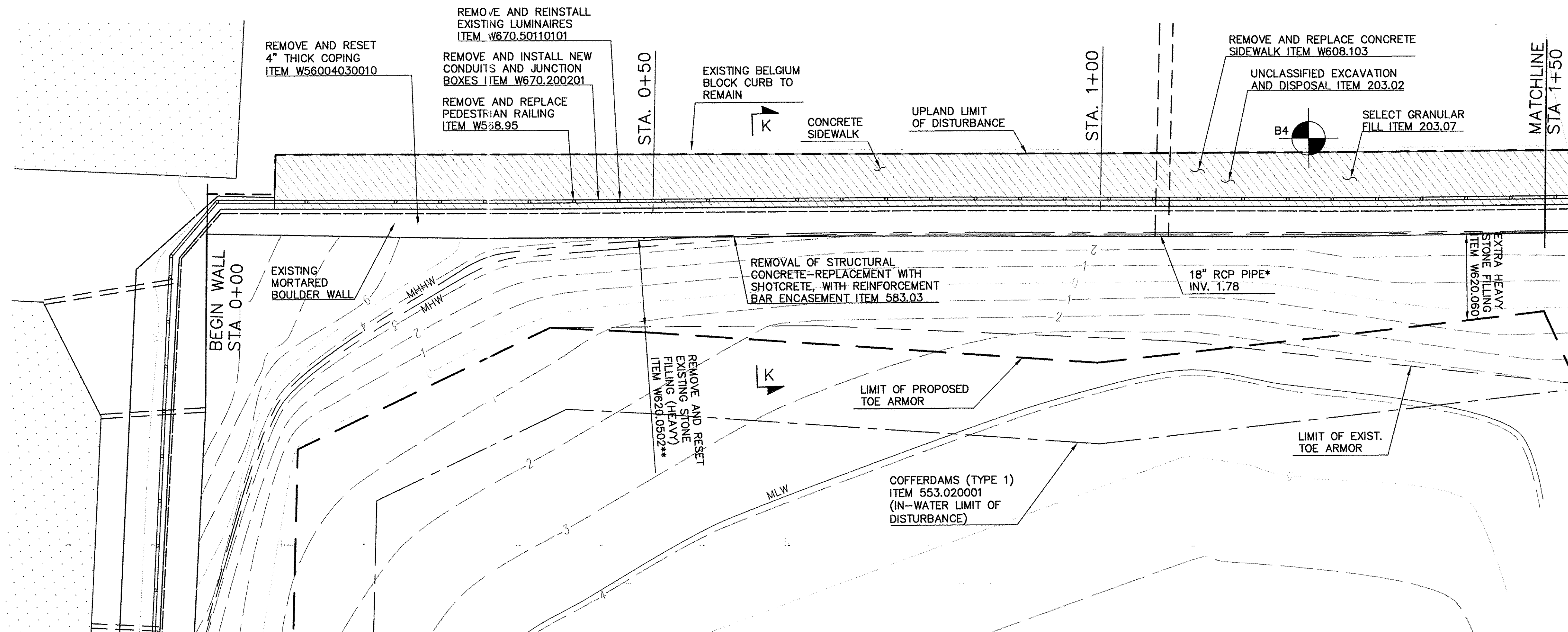
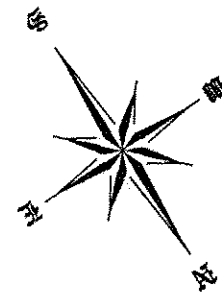
UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF J. R. VALENTIN, P.E.
 CHECKED BY J. R. VALENTIN, P.E.
 MADE BY C. LINO

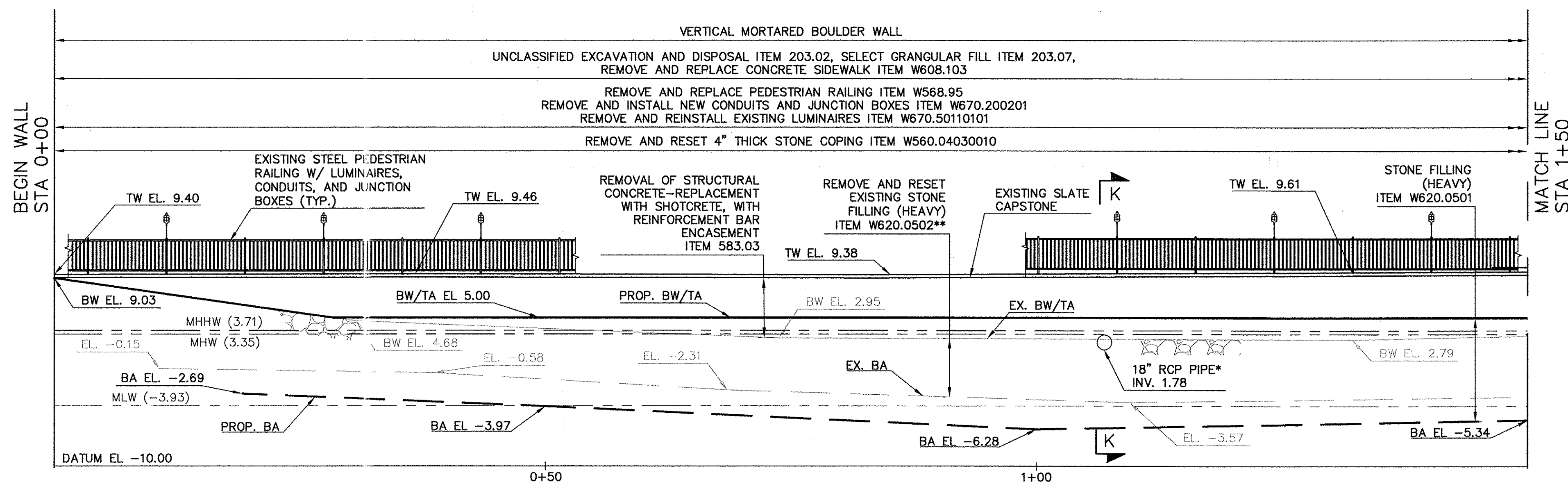
REVISION	DATE	MADE	APP'D	REVISION
1	5/5/17	JEM	JRV	AS PER NYDEC/ACOE COMMENTS

RECORD DRAWING CERTIFICATION			
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CONTRACTOR		PROJECT COORDINATOR	
NAME		NAME	
SIGNATURE		SIGNATURE	
TITLE	DATE	TITLE	DATE

		Boswell ENGINEERING ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS 330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606 TEL: (201) 641-0770 • FAX: (201) 641-1831 N.J. CERTIFICATE OF AUTHORIZATION NO. 246A27858000	
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 15-531	SHEET NUMBER 18
SUPERSTORM SANDY REHABILITATION GLEN ISLAND PARK SEAWALLS AND PAVILIONS NEW ROCHELLE, NEW YORK LOC. 2-2 STA. 0+00 TO STA. 1+52-CROSS SECTIONS		SHEET NO. 18 OF 34 SCALE: AS NOTED DATE: MAY 2018 DPW FILE NO. 5-18-G-116	REV. NO. 0



PLAN
SCALE: 1/8"=1'-0"



ELEVATION
SCALE 1/8"=1'-0"

LEGEND:
BW - BOTTOM OF WALL
TW - TOP OF WALL
BA - BOTTOM OF ARMOR
TA - TOP OF ARMOR
MHHW - MEAN HIGH HIGH WATER (3.71)
MHW - MEAN HIGH WATER (3.35)
MLW - MEAN LOW WATER (-3.93)
EX. - EXISTING
PROP. - PROPOSED

UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS
PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2
OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF J. R. VALENTIN, P.E.
CHECKED BY J. R. VALENTIN, P.E.
MADE BY C. LINO

REVISION	DATE	MADE	APP'D	REVISION

RECORD DRAWING CERTIFICATION

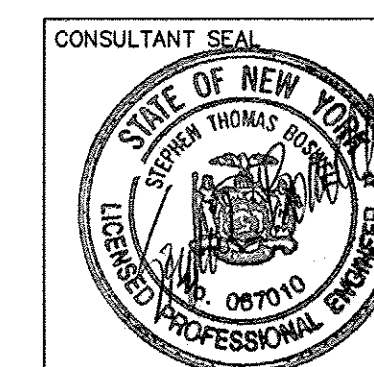
☐ AS BUILT - CHANGES AS NOTED
☐ AS BUILT - NO CHANGES

CONTRACTOR

NAME _____
SIGNATURE _____
TITLE _____ DATE _____

PROJECT COORDINATOR

NAME _____
SIGNATURE _____
TITLE _____ DATE _____



CONSULTANT INFORMATION

Boswell ENGINEERING
ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
TEL: (201) 641-0770 • FAX: (201) 641-1831
N.J. CERTIFICATE OF AUTHORIZATION NO. 246A27958000

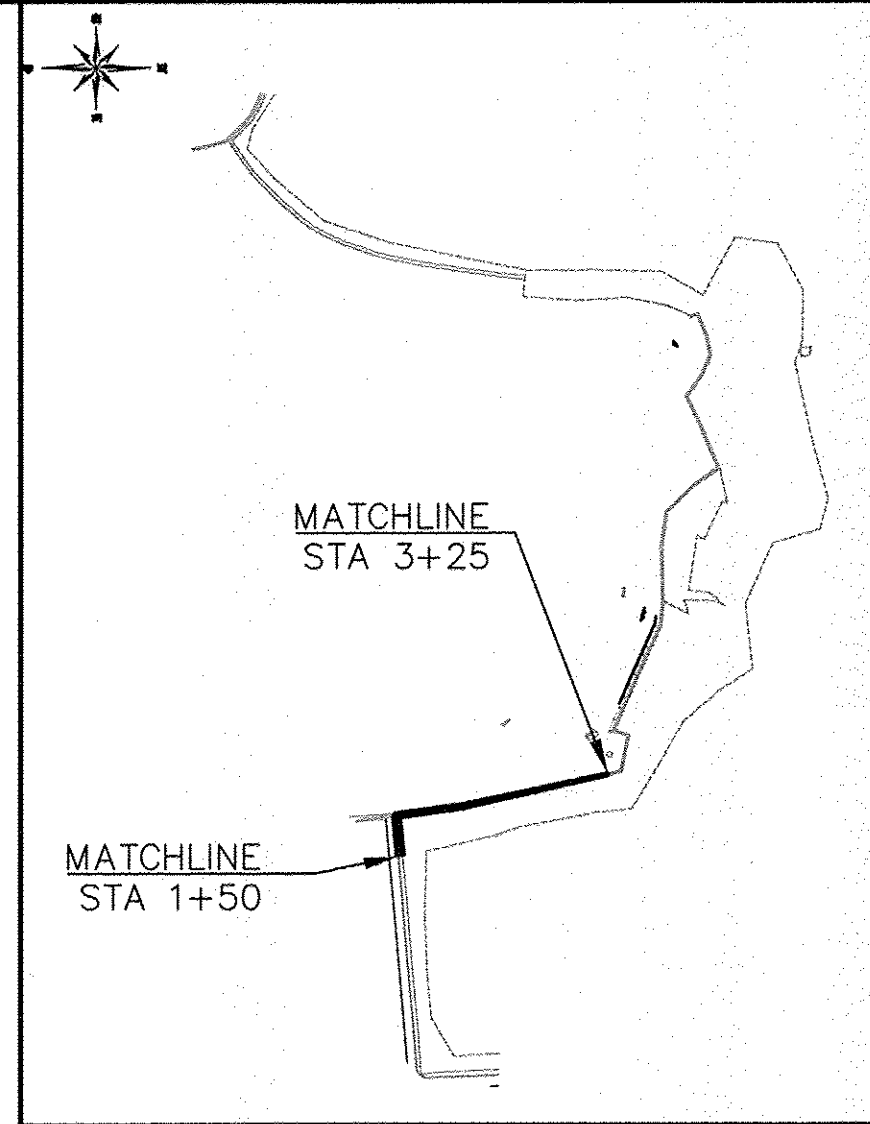
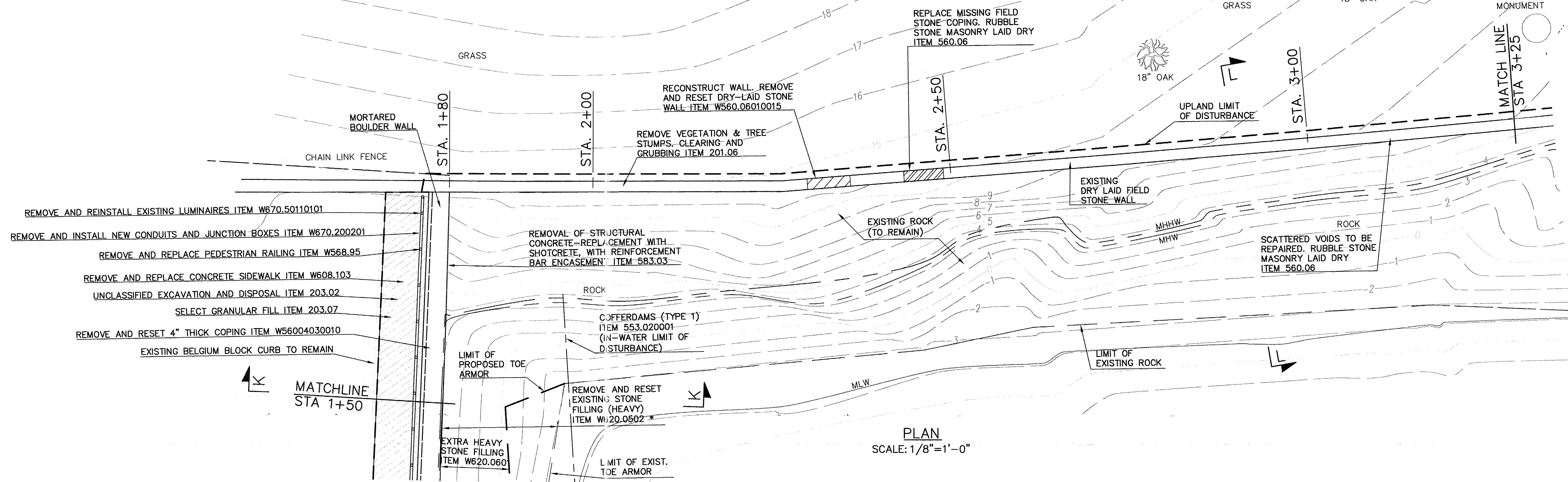
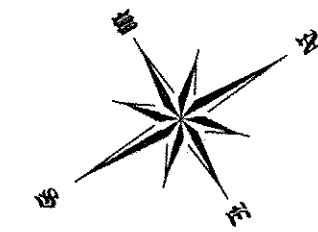
WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

SUPERSTORM SANDY REHABILITATION
GLEN ISLAND PARK SEAWALLS AND PAVILIONS
NEW ROCHELLE, NEW YORK
LOC. 3 SEAWALL STA. 0+00 TO STA. 1+50

CONTRACT NUMBER 15-531
SHEET NUMBER 19

SHEET NO. 19 OF 34

SCALE: AS NOTED
DATE: MAY 2018
DPW FILE NO. 5-18-G-117
REV. NO. 0



KEY MAP
N.T.S.

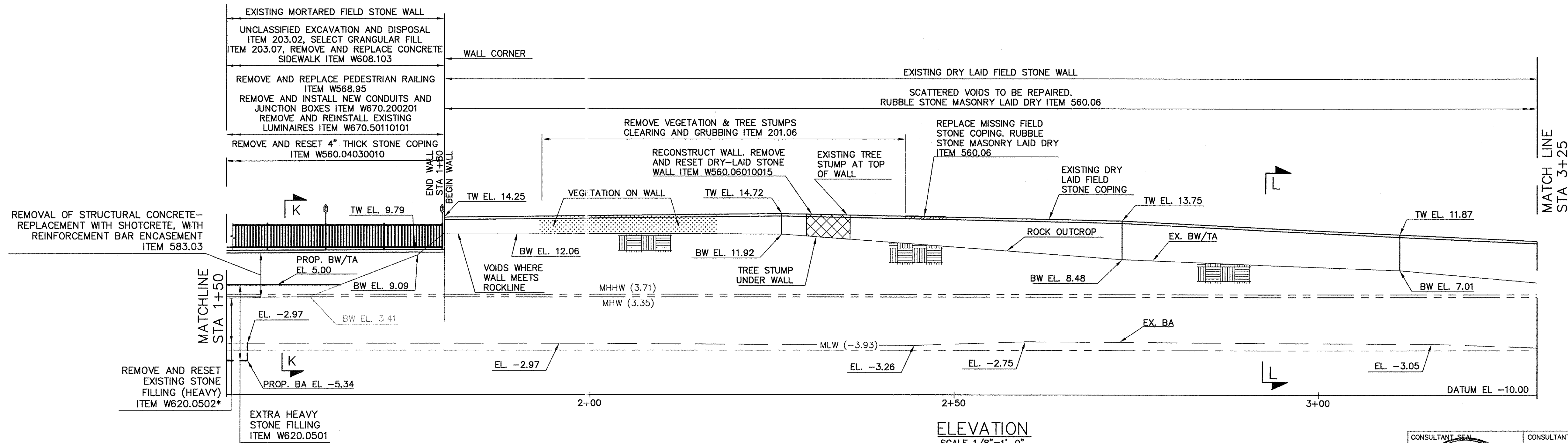
NOTES

1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR CROSS SECTIONS 2+00-3+00, SEE SHEETS 25 & 26.
3. FOR SECTION K-K, SEE SHEET 30.
4. FOR SECTION L-L, SEE SHEET 31.

* REMOVE EXISTING STONE AS DIRECTED BY THE ENGINEER FOR THE REPLACEMENT OF SHOTCRETE WALL COATING.

LEGEND:

BW - BOTTOM OF WALL
TW - TOP OF WALL
BA - BOTTOM OF ARMOR
TA - TOP OF ARMOR
MHHW - MEAN HIGH HIGH WATER (3.71)
MHW - MEAN HIGH WATER (3.35)
MLW - MEAN LOW WATER (-3.93)
EX - EXISTING
PROP. - PROPOSED



UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF J. R. VALENTIN, P.E.
CHECKED BY J. R. VALENTIN, P.E.
MADE BY C. LINO

REVISION	DATE	MADE	APP'D

RECORD DRAWING CERTIFICATION			
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES			
CONTRACTOR		PROJECT COORDINATOR	
NAME		NAME	
SIGNATURE		SIGNATURE	
TITLE		TITLE	



CONSULTANT INFORMATION

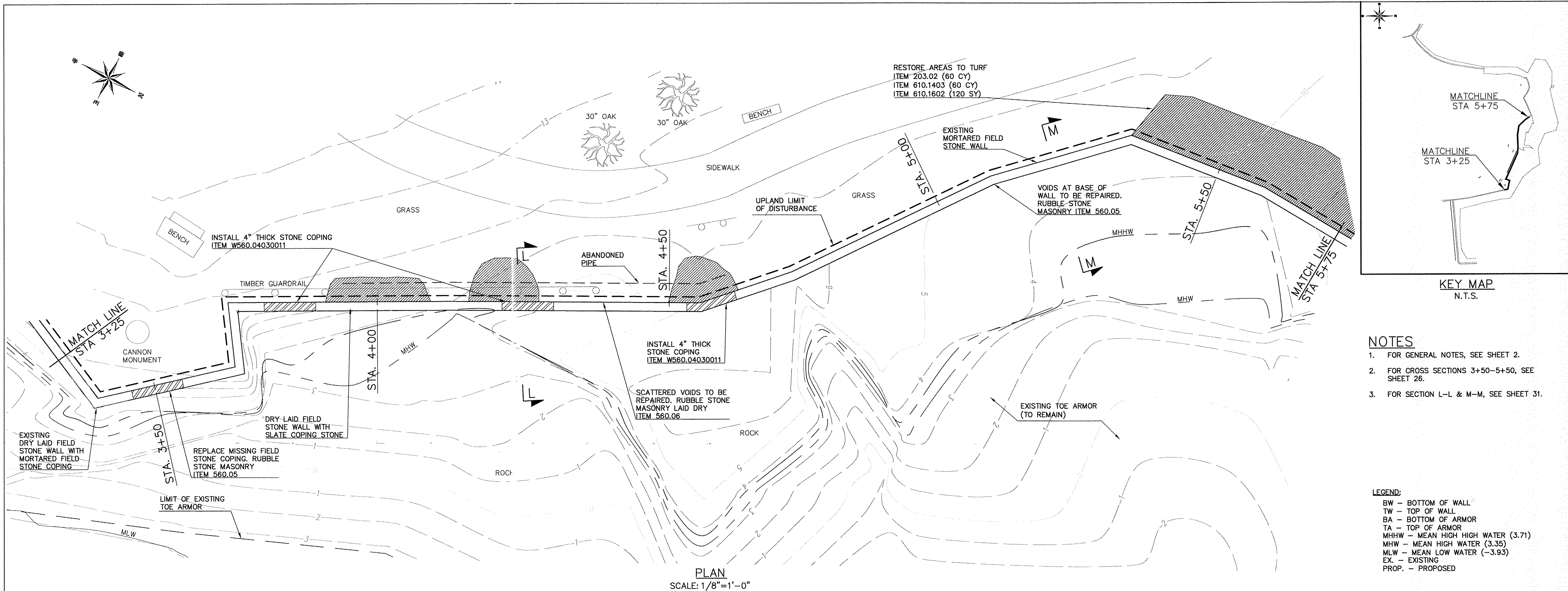


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330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07608
TEL: (201) 641-0770 • FAX: (201) 641-1831
N.J. CERTIFICATE OF AUTHORIZATION NO. 246A27958000

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

SUPERSTORM SANDY REHABILITATION
GLEN ISLAND PARK SEAWALLS AND PAVILIONS
NEW ROCHELLE, NEW YORK
LOC. 3 SEAWALL STA. 1+50 TO STA. 3+25

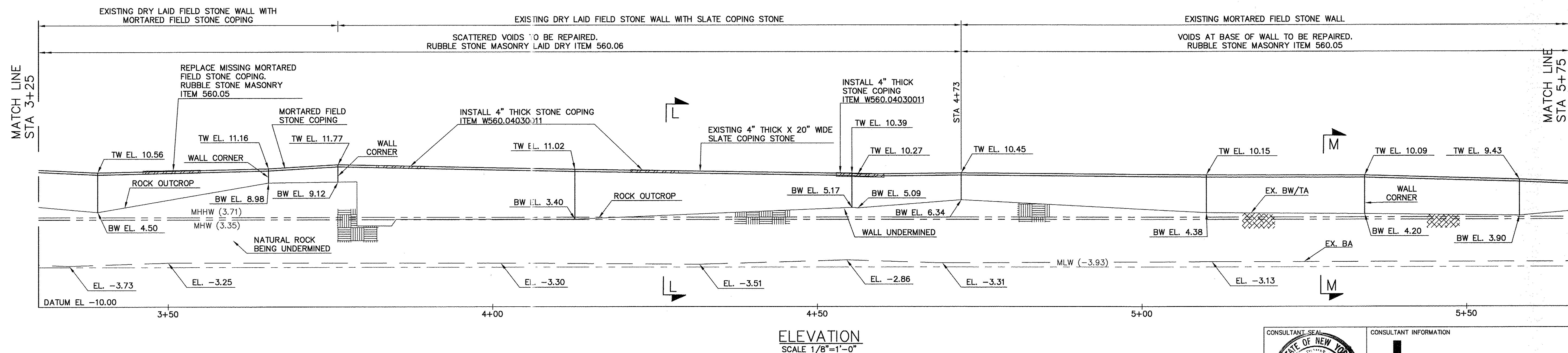
CONTRACT NUMBER	SHEET NUMBER
15-531	20
SHEET NO. 20 OF 34	
SCALE: AS NOTED DATE: MAY 2018	
DPW FILE NO.	REV. NO.
5-18-G-118	0



- NOTES**
1. FOR GENERAL NOTES, SEE SHEET 2.
 2. FOR CROSS SECTIONS 3+50-5+50, SEE SHEET 26.
 3. FOR SECTION L-L & M-M, SEE SHEET 31.

LEGEND:

BW - BOTTOM OF WALL
TW - TOP OF WALL
BA - BOTTOM OF ARMOR
TA - TOP OF ARMOR
MHHW - MEAN HIGH HIGH WATER (3.71)
MHW - MEAN HIGH WATER (3.35)
MLW - MEAN LOW WATER (-3.93)
EX - EXISTING
PROP. - PROPOSED



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IN CHARGE OF J. R. VALENTIN, P.E.
CHECKED BY J. R. VALENTIN, P.E.
MADE BY C. LINO

REVISION	DATE	MADE	APP'D

RECORD DRAWING CERTIFICATION			
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED			
<input type="checkbox"/> AS BUILT - NO CHANGES			
CONTRACTOR		PROJECT COORDINATOR	
NAME		NAME	
SIGNATURE		SIGNATURE	
TITLE		TITLE	
DATE		DATE	

CONSULTANT SEAL

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N.J. CERTIFICATE OF AUTHORIZATION NO. 246A27958000

WESTCHESTER COUNTY, NEW YORK

DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION

DIVISION OF ENGINEERING

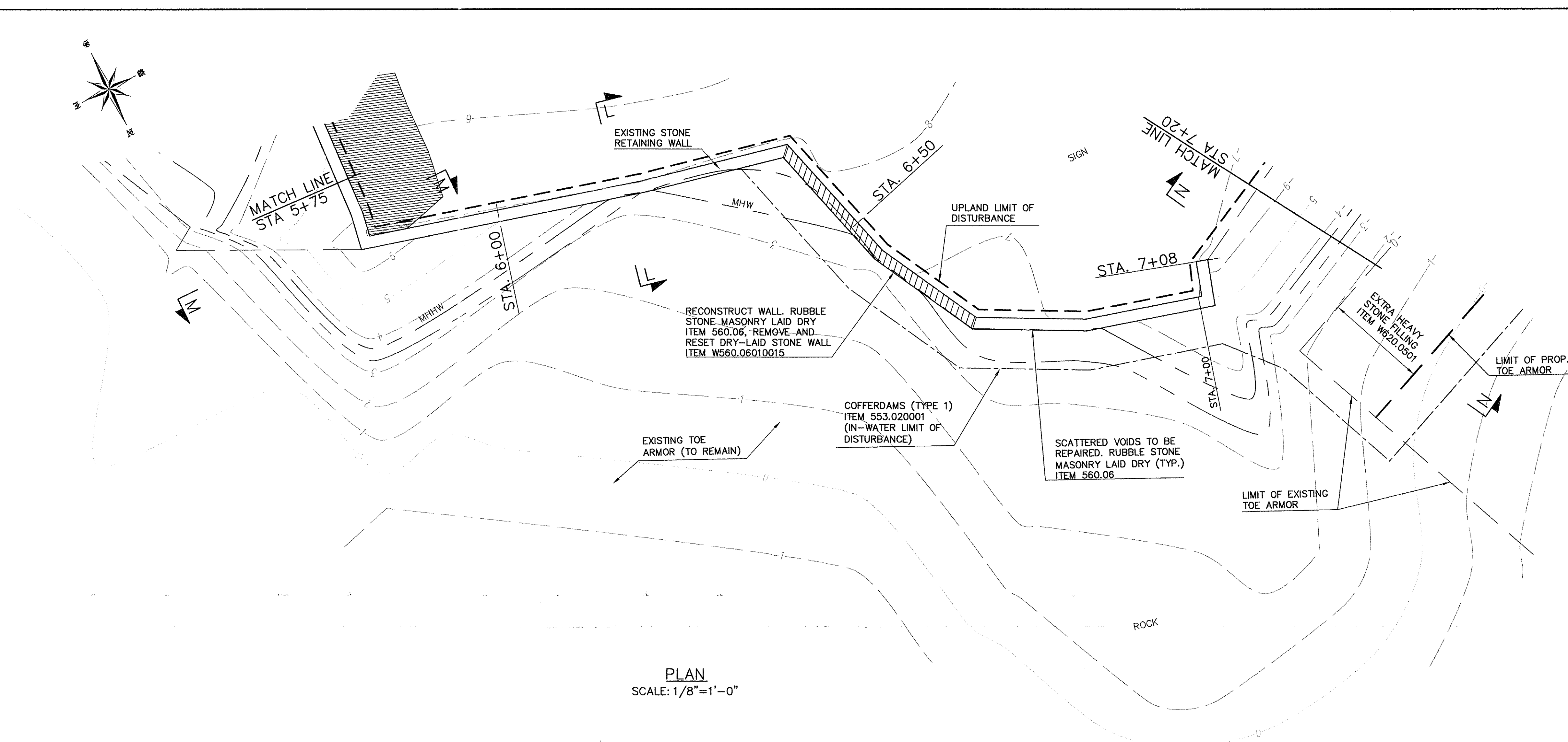
SUPERSTORM SANDY REHABILITATION

GLEN ISLAND PARK SEAWALLS AND PAVILIONS

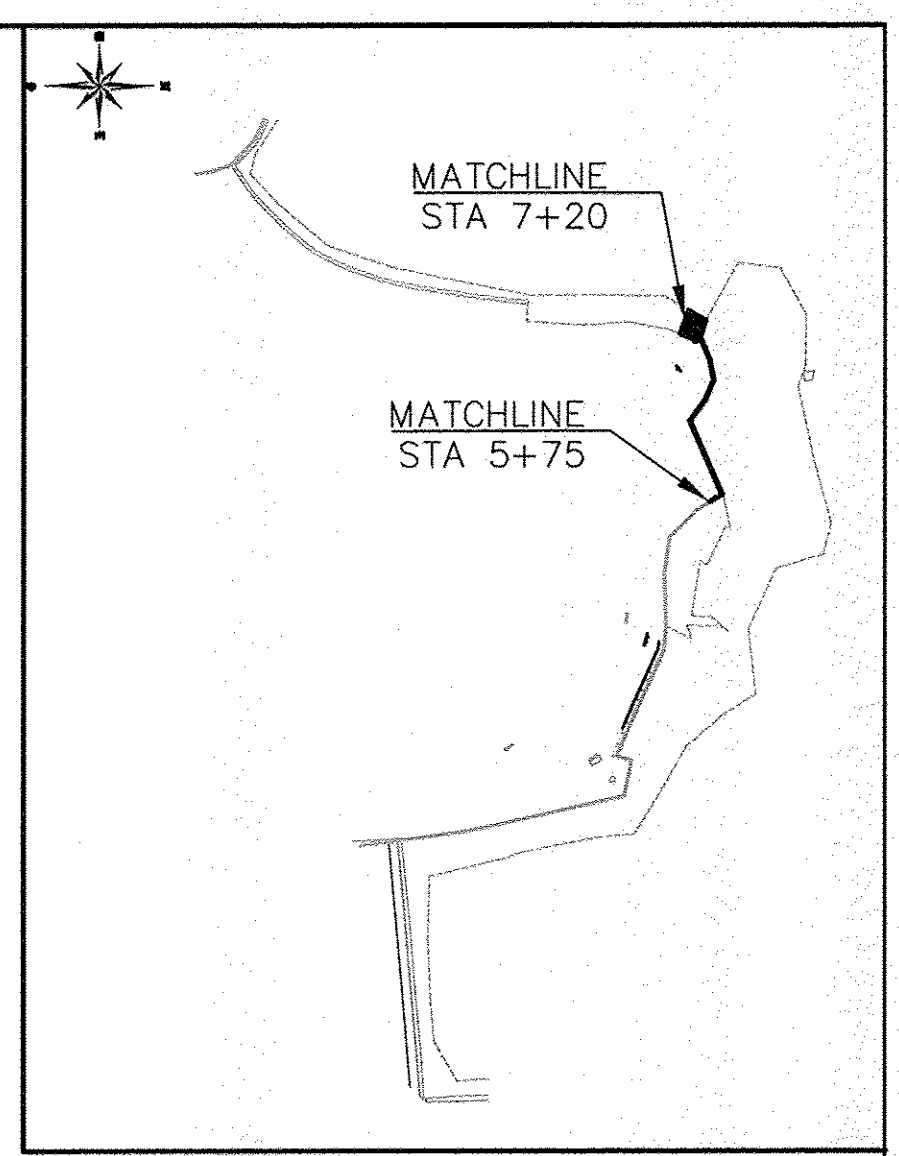
NEW ROCHELLE, NEW YORK

LOC. 3 SEAWALL STA. 3+25 TO STA. 5+75

CONTRACT NUMBER	15-531
SHEET NUMBER	21
SHEET NO. 21 OF 34	
SCALE: AS NOTED	DATE: MAY 2018
DPW FILE NO.	5-18-G-119
REV. NO.	0



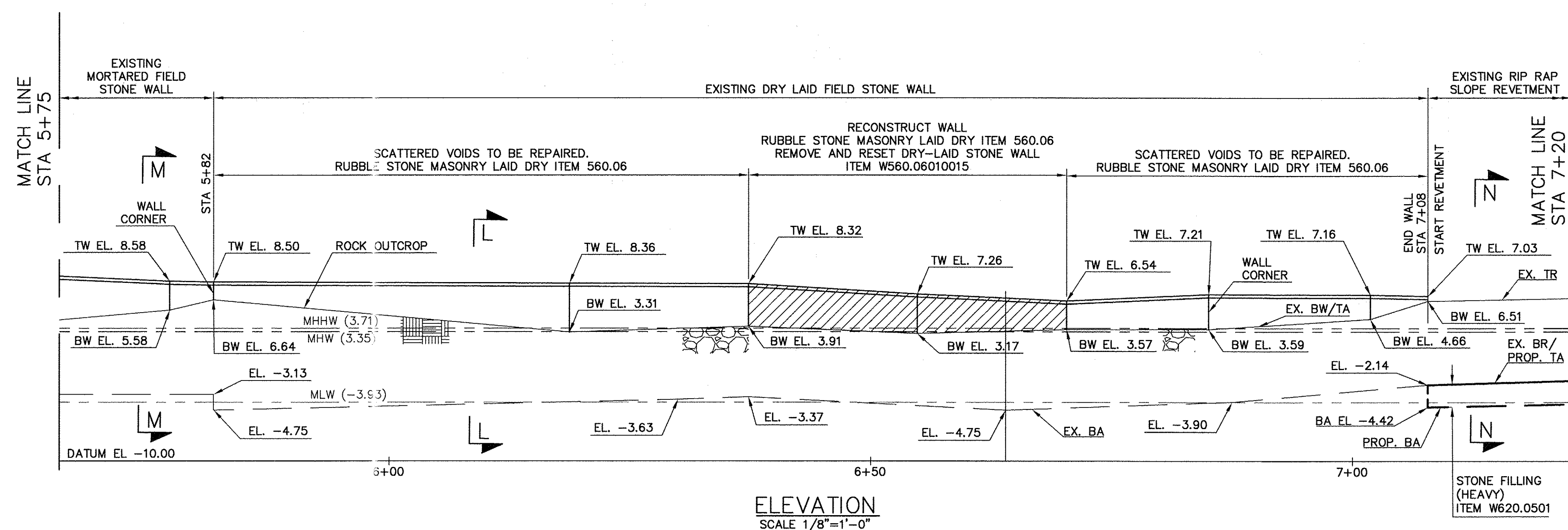
PLAN
SCALE: 1/8"=1'-0"



KEY MAP
N.T.S.

- NOTES**
1. FOR GENERAL NOTES, SEE SHEET 2.
 2. FOR CROSS SECTIONS 6+00-7+00, SEE SHEET 27.
 3. FOR SECTION L-L, M-M, AND N-N, SEE SHEET 31.

- LEGEND:**
- BW - BOTTOM OF WALL
 - TW - TOP OF WALL
 - BA - BOTTOM OF ARMOR
 - TA - TOP OF ARMOR
 - MHHW - MEAN HIGH HIGH WATER (3.71)
 - MHW - MEAN HIGH WATER (3.35)
 - MLW - MEAN LOW WATER (-3.93)
 - EX. - EXISTING
 - PROP. - PROPOSED



ELEVATION
SCALE 1/8"=1'-0"

UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF J. R. VALENTIN, P.E.
CHECKED BY J. R. VALENTIN, P.E.
MADE BY C. LINO

REVISION				REVISION			
REVISION	DATE	MADE	APP'D	REVISION	DATE	MADE	APP'D

RECORD DRAWING CERTIFICATION			
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED	<input type="checkbox"/> AS BUILT - NO CHANGES		
CONTRACTOR		PROJECT COORDINATOR	
NAME _____	NAME _____		
SIGNATURE _____	SIGNATURE _____		
TITLE _____	TITLE _____		
DATE _____	DATE _____		

CONSULTANT SEAL

CONSULTANT INFORMATION

Boswell ENGINEERING

ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS

330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606

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N.J. CERTIFICATE OF AUTHORIZATION NO. 246A27958000

WESTCHESTER COUNTY, NEW YORK

DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION

DIVISION OF ENGINEERING

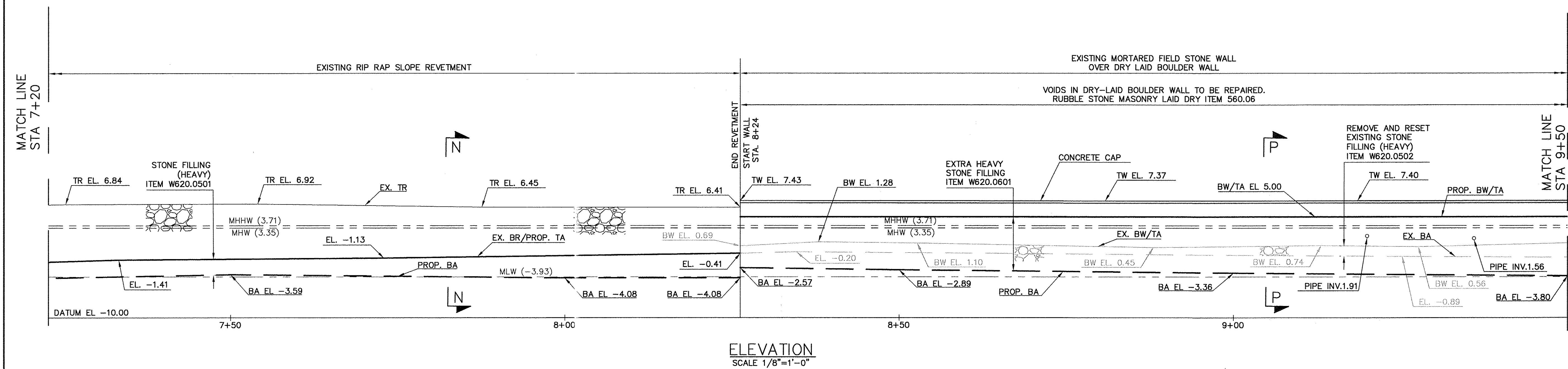
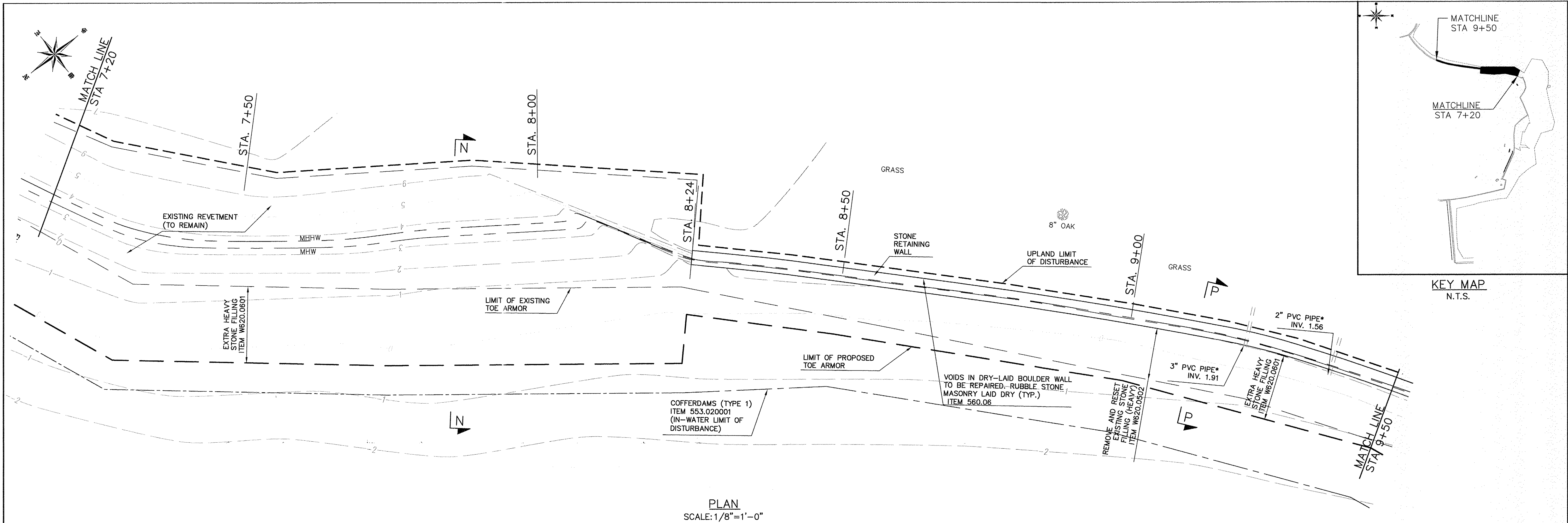
SUPERSTORM SANDY REHABILITATION

GLEN ISLAND PARK SEAWALLS AND PAVILIONS

NEW ROCHELLE, NEW YORK

LOC. 3 SEAWALL STA. 5+75 TO STA. 7+20

CONTRACT NUMBER	15-531
SHEET NUMBER	22
SHEET NO. 22 OF 34	
SCALE: AS NOTED	DATE: MAY 2018
DPW FILE NO.	5-18-G-120
REV. NO.	0



- NOTES**
- FOR GENERAL NOTES, SEE SHEET 2.
 - FOR CROSS SECTIONS 7+50-9+50, SEE SHEET 28.
 - FOR SECTION N-N & P-P, SEE SHEET 31.

LEGEND:

BW - BOTTOM OF WALL
 TW - TOP OF WALL
 BA - BOTTOM OF ARMOR
 TA - TOP OF ARMOR
 MHHW - MEAN HIGH HIGH WATER (3.71)
 MHW - MEAN HIGH WATER (3.35)
 MLW - MEAN LOW WATER (-3.93)
 EX. - EXISTING
 PROP. - PROPOSED

UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF J. R. VALENTIN, P.E.
 CHECKED BY J. R. VALENTIN, P.E.
 MADE BY C. LINO

REVISION	DATE	MADE	AP'D	REVISION

RECORD DRAWING CERTIFICATION			
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CONTRACTOR		PROJECT COORDINATOR	
NAME _____	NAME _____	SIGNATURE _____	SIGNATURE _____
TITLE _____	TITLE _____	DATE _____	DATE _____

CONSULTANT SEAL

CONSULTANT INFORMATION

Boswell ENGINEERING

ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS

330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606

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N.J. CERTIFICATE OF AUTHORIZATION NO. 24GA27958000

WESTCHESTER COUNTY, NEW YORK

DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION

DIVISION OF ENGINEERING

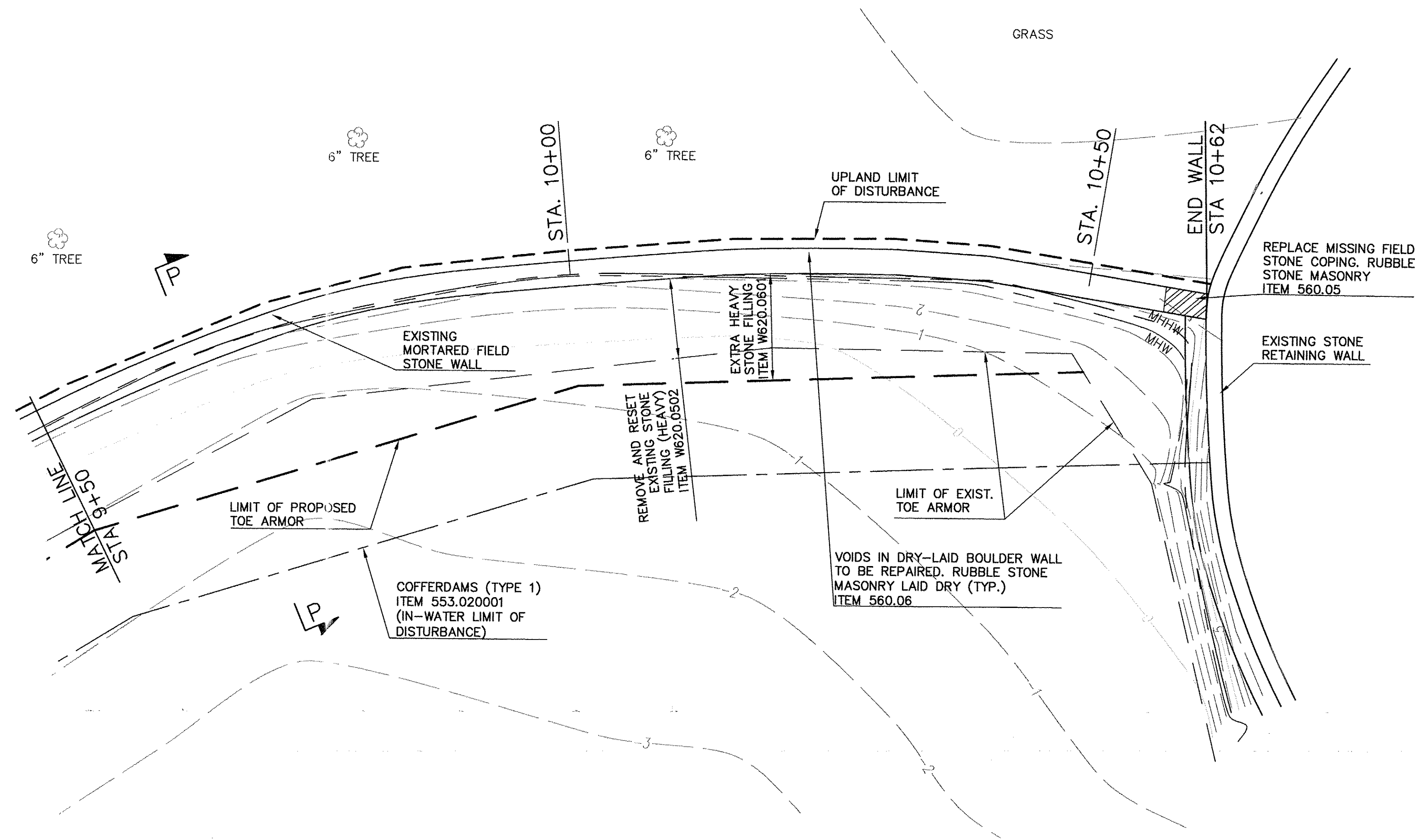
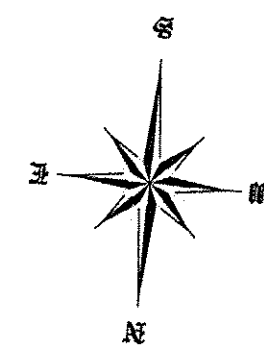
SUPERSTORM SANDY REHABILITATION

GLEN ISLAND PARK SEAWALLS AND PAVILIONS

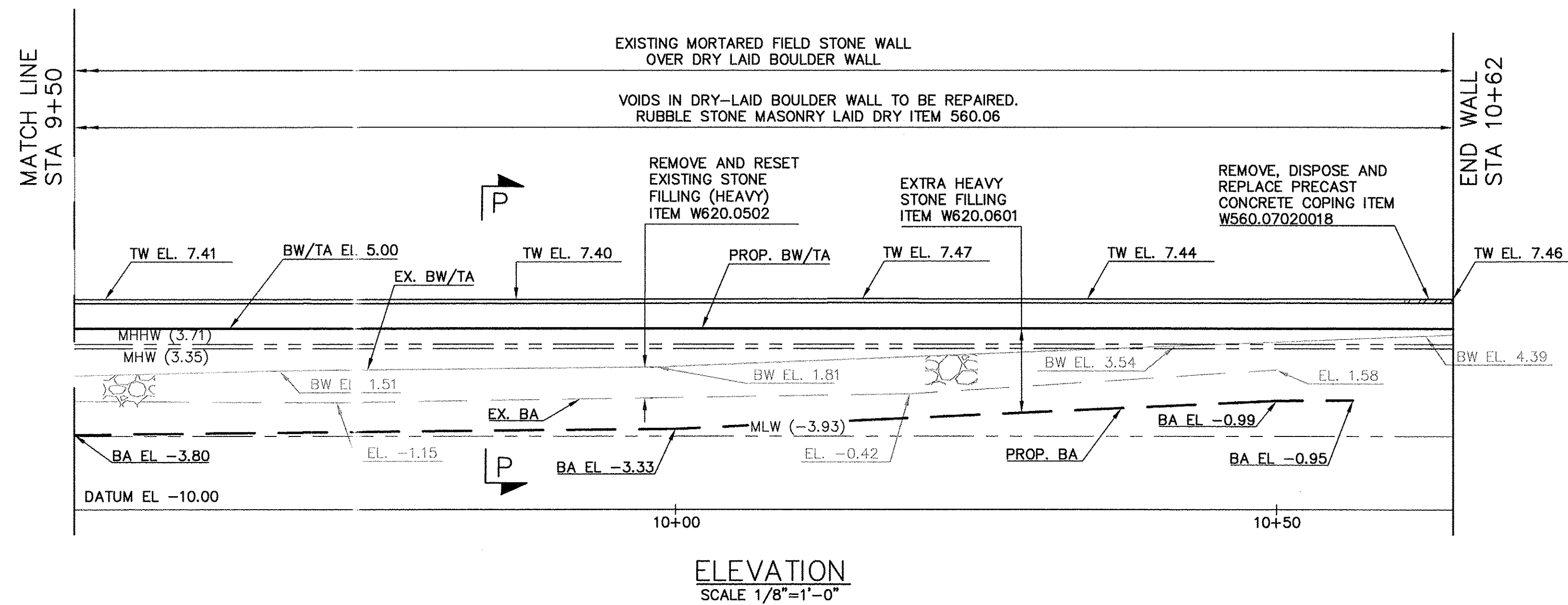
NEW ROCHELLE, NEW YORK

LOC. 3 SEAWALL STA. 7+20 TO STA. 9+50

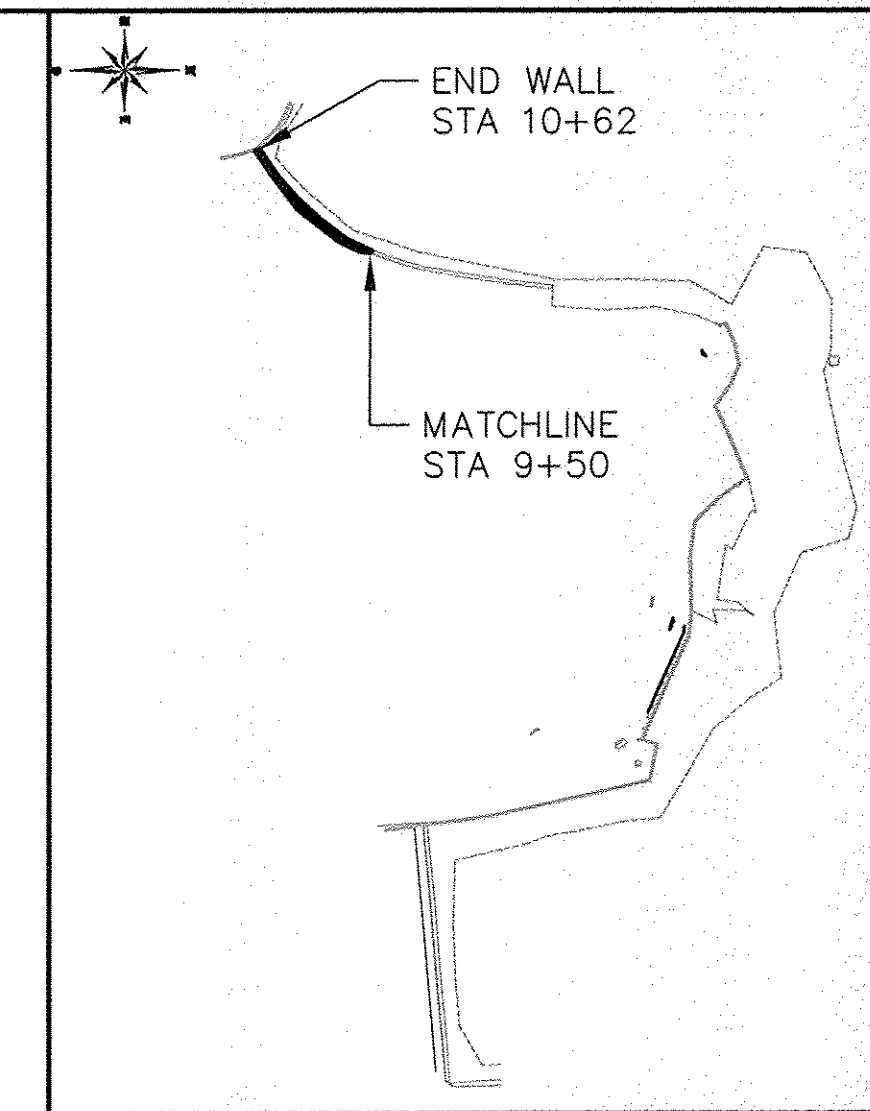
CONTRACT NUMBER	SHEET NUMBER
15-531	23
SHEET NO. 23 OF 34	
SCALE: AS NOTED	
DATE: MAY 2018	
DPW FILE NO.	REV. NO.
5-18-G-121	0



PLAN
SCALE: 1/8"=1'-0"



ELEVATION
SCALE 1/8"=1'-0"



KEY MAP
N.T.S.

- NOTES**
- FOR GENERAL NOTES, SEE SHEET 2.
 - FOR CROSS SECTIONS 9+50-10+62, SEE SHEETS 28 & 29.
 - FOR SECTION P-P, SEE SHEET 31.

- LEGEND:**
- BW - BOTTOM OF WALL
 - TW - TOP OF WALL
 - BA - BOTTOM OF ARMOR
 - TA - TOP OF ARMOR
 - MHHW - MEAN HIGH HIGH WATER (3.71)
 - MHW - MEAN HIGH WATER (3.35)
 - MLW - MEAN LOW WATER (-3.93)
 - EX. - EXISTING
 - PROP. - PROPOSED

UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF J. R. VALENTIN, P.E.
CHECKED BY J. R. VALENTIN, P.E.
MADE BY C. LINO

REVISION	DATE	MADE	APPROVED	REVISION

RECORD DRAWING CERTIFICATION			
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CONTRACTOR		PROJECT COORDINATOR	
NAME		NAME	
SIGNATURE		SIGNATURE	
TITLE		TITLE	
DATE		DATE	

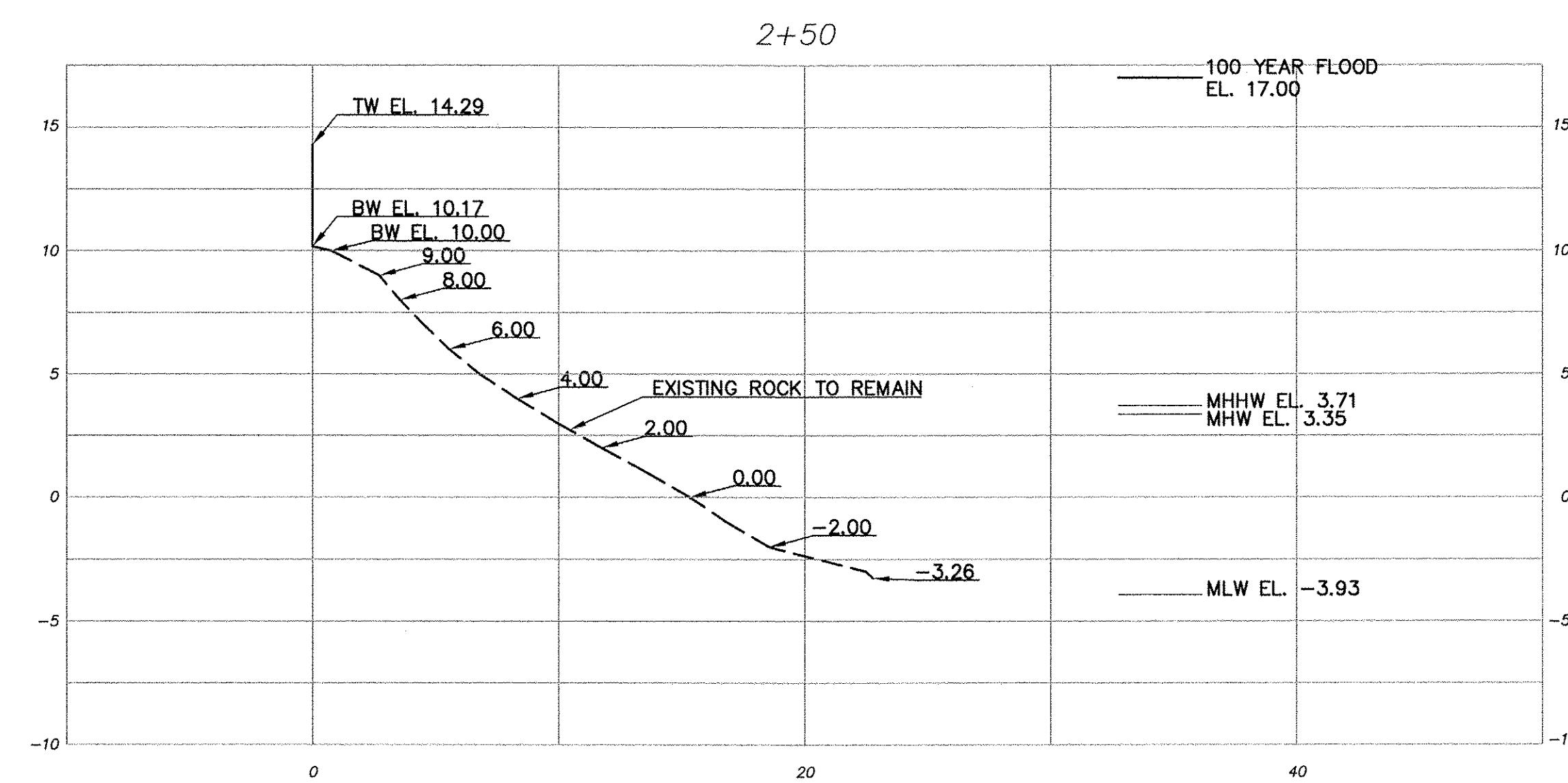
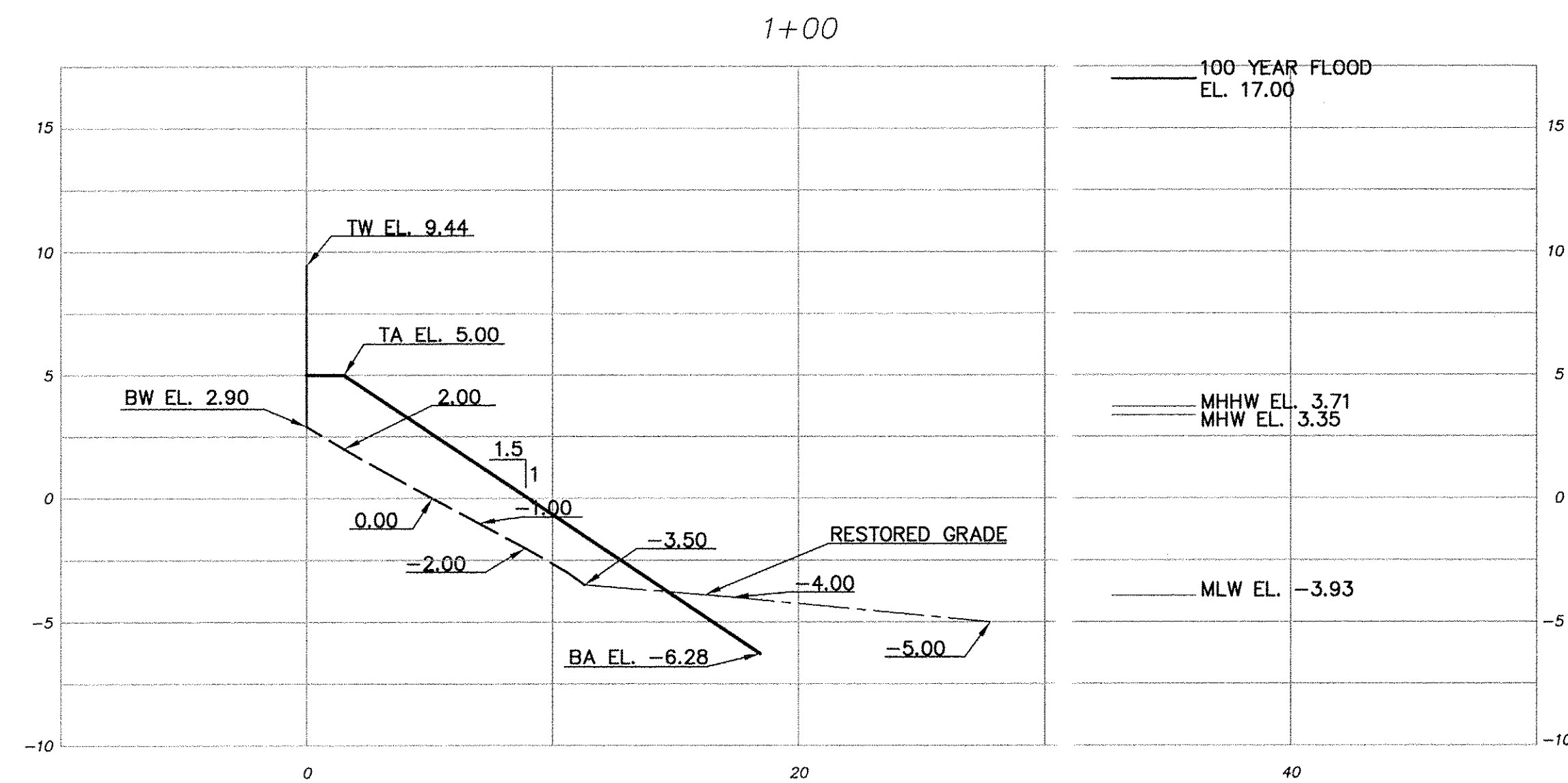
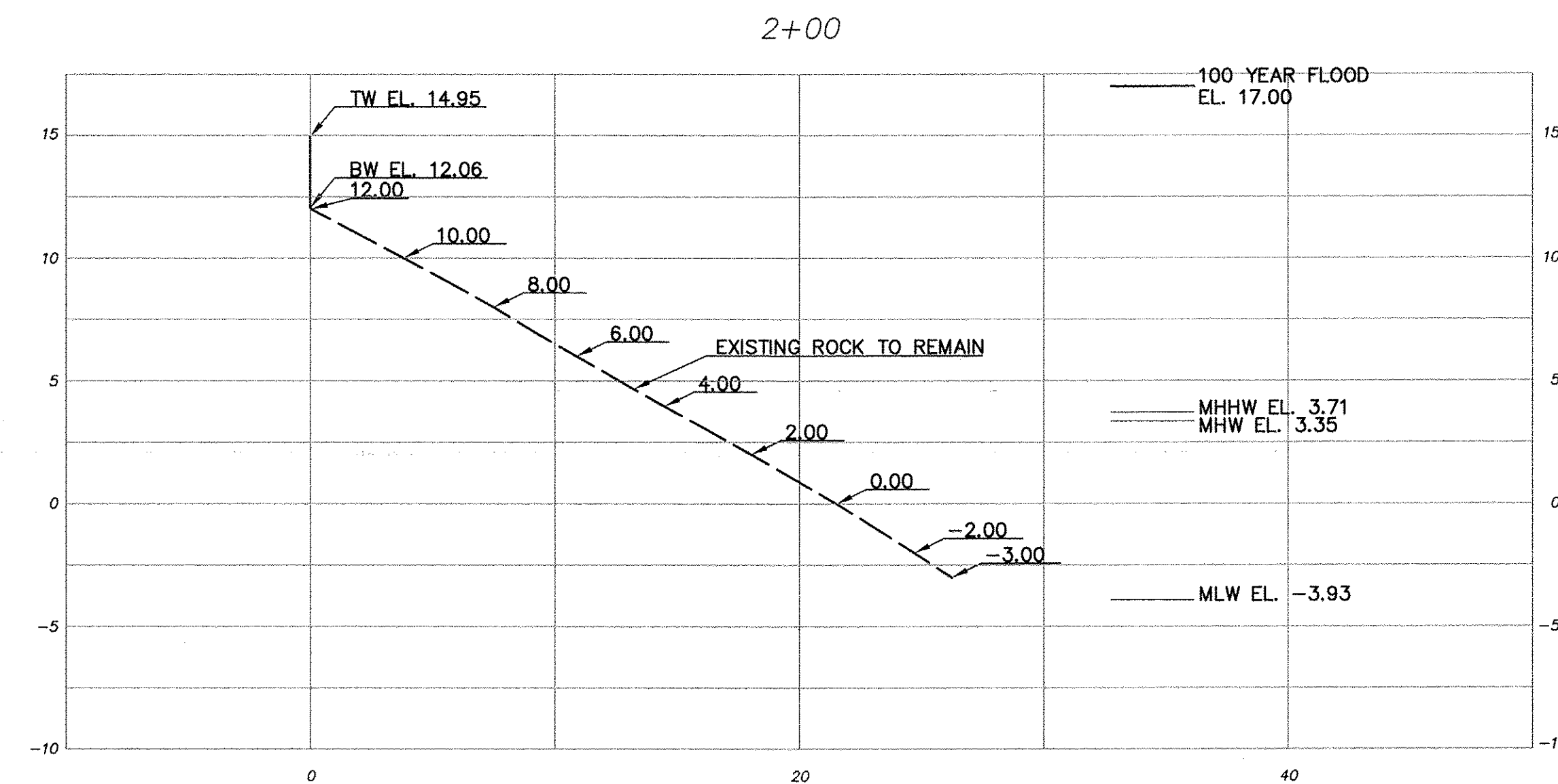
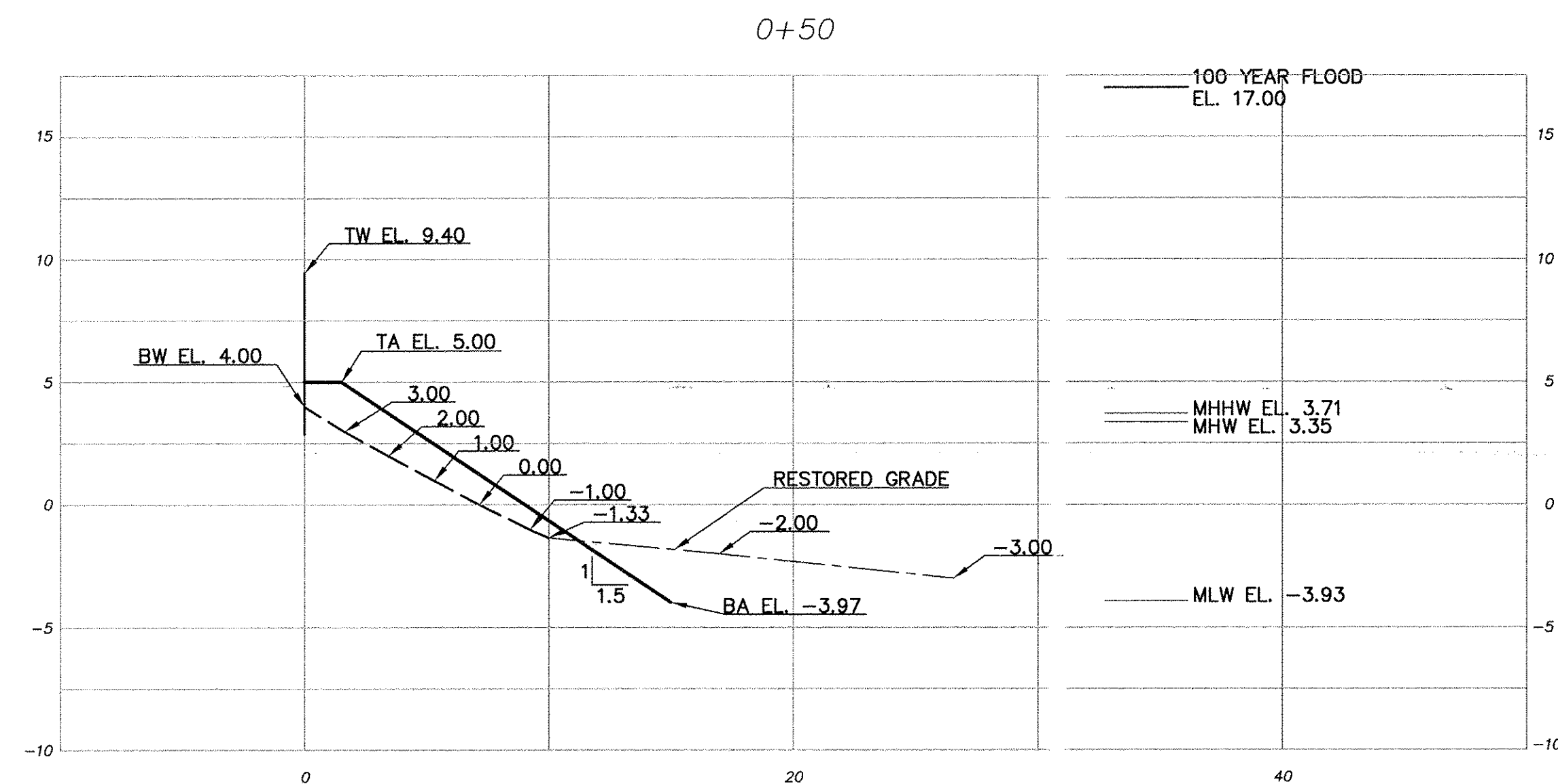
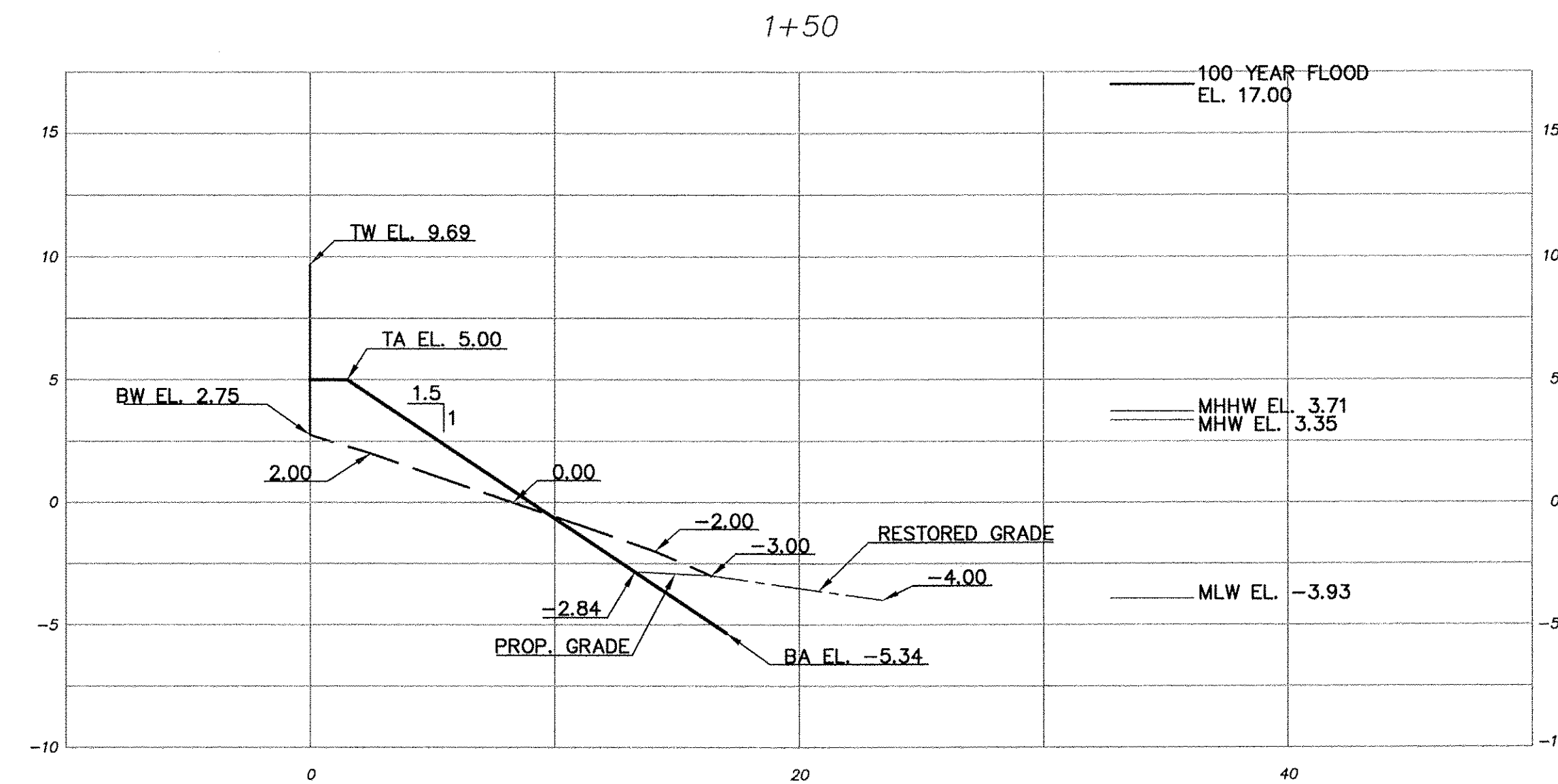
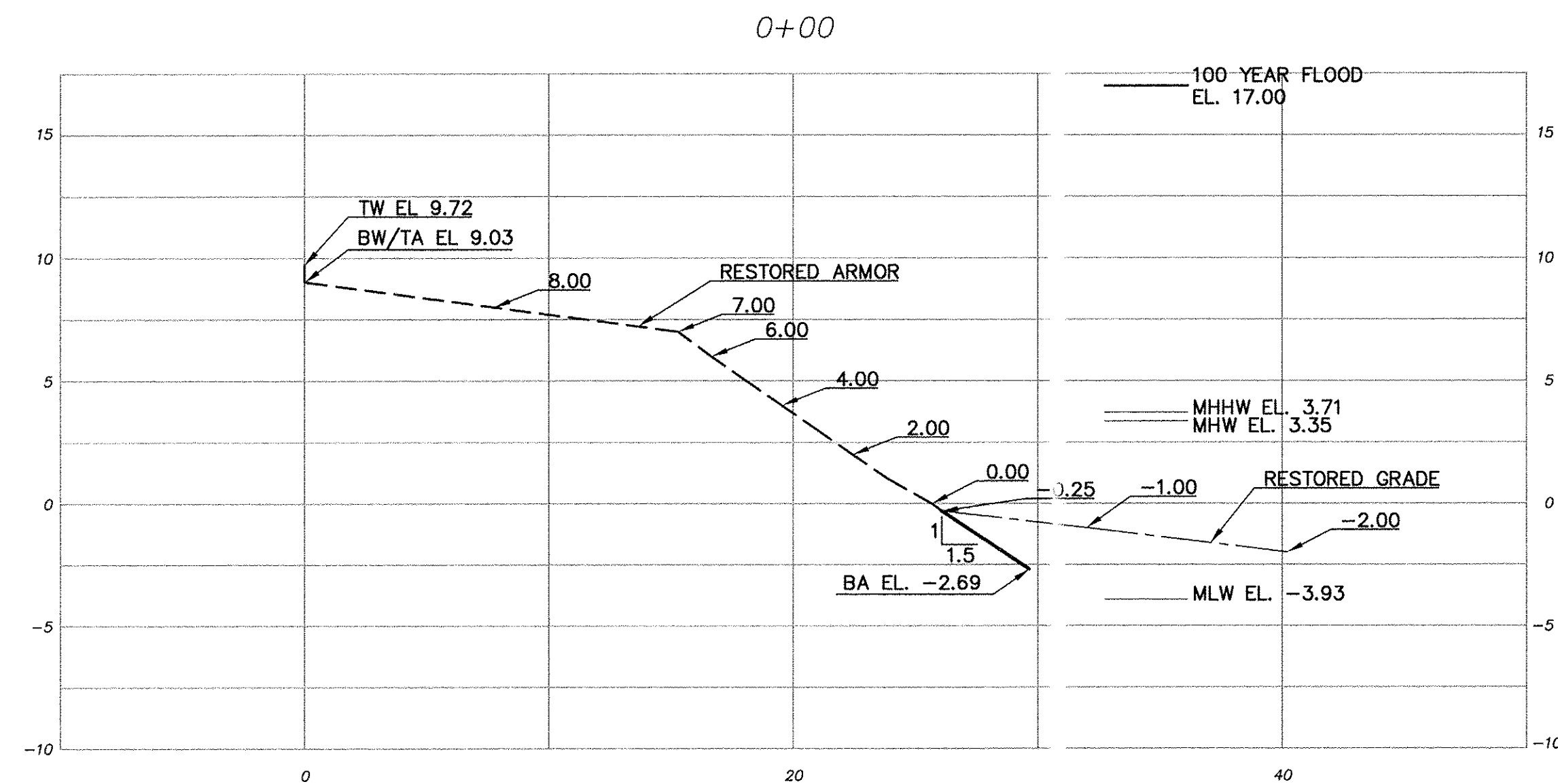
CONSULTANT SEAL

CONSULTANT INFORMATION

Boswell ENGINEERING

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330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07608
TEL: (201) 641-0770 • FAX: (201) 641-1831
N.J. CERTIFICATE OF AUTHORIZATION NO. 246A27958000

WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 15-531	SHEET NUMBER 24
SUPERSTORM SANDY REHABILITATION GLEN ISLAND PARK SEAWALLS AND PAVILIONS NEW ROCHELLE, NEW YORK LOC. 3 SEAWALL STA. 9+50 TO STA. 10+62		SHEET NO. 24 OF 34 SCALE: AS NOTED DATE: MAY 2018 DPW FILE NO. 5-18-G-122	REV. NO. 0



LEGEND:

PROPOSED TOE ARMOR ———
EXISTING TOE ARMOR - - - - -
EXISTING GRADE - - - - -
BW - BOTTOM OF WALL (EXPOSED)
TW - TOP OF WALL
BA - BOTTOM OF ARMOR

TA - TOP OF ARMOR
MHHW - MEAN HIGH HIGH WATER
MHW - MEAN HIGH WATER
MLW - MEAN LOW WATER
TR - TOP OF REVETMENT
TR - TOP OF REVETMENT

NOTES

- FOR GENERAL NOTES, SEE SHEET 2.
- FOR LOCATIONS OF CROSS SECTIONS 0+00-1+50, SEE SHEET 19.
- FOR LOCATIONS OF CROSS SECTIONS 2+00-2+50, SEE SHEET 20.

UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF J. R. VALENTIN, P.E.
CHECKED BY J. R. VALENTIN, P.E.
MADE BY C. LINO

REVISION	DATE	MADE	APP'D	REVISION

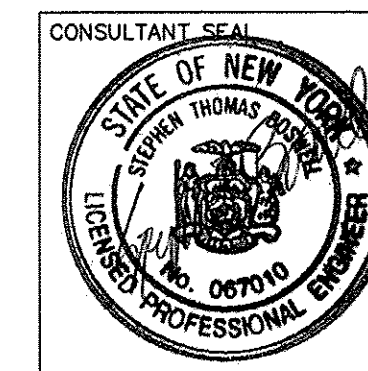
RECORD DRAWING CERTIFICATION

☐ AS BUILT - CHANGES AS NOTED
☐ AS BUILT - NO CHANGES

CONTRACTOR
NAME _____
SIGNATURE _____
TITLE _____ DATE _____

PROJECT COORDINATOR

NAME _____
SIGNATURE _____
TITLE _____ DATE _____



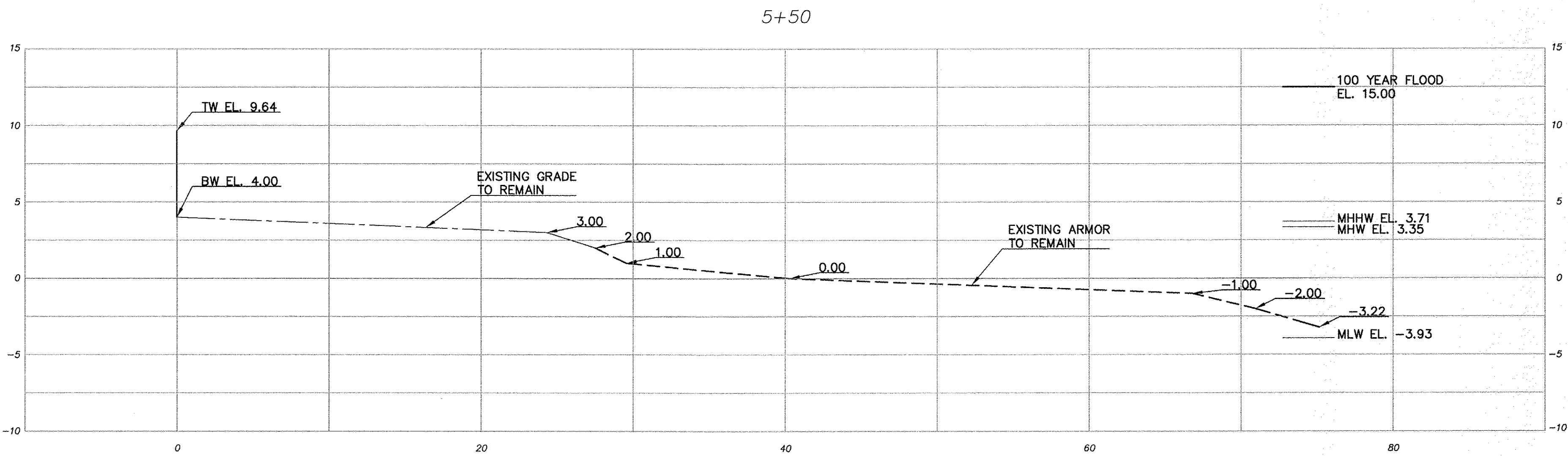
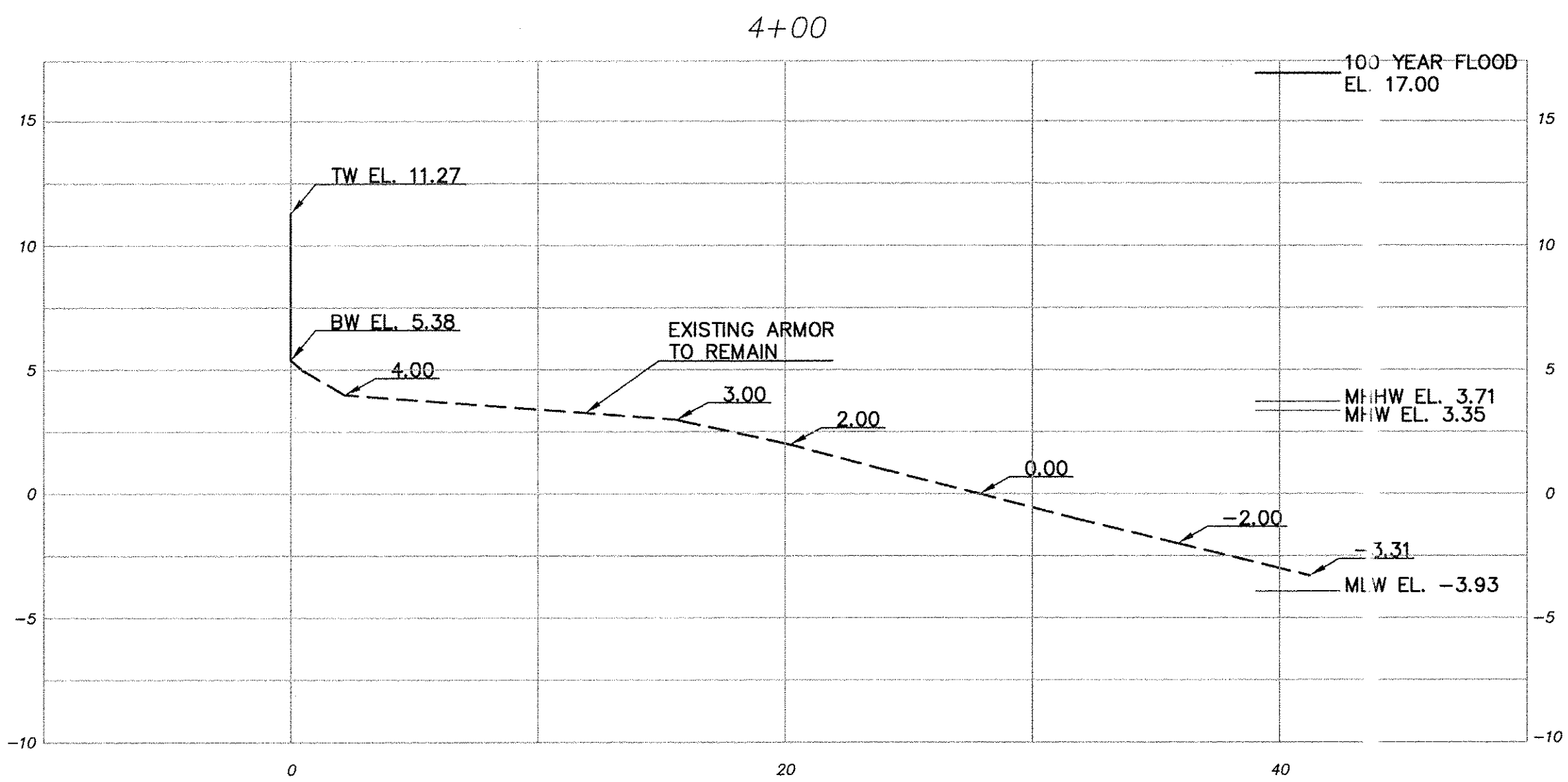
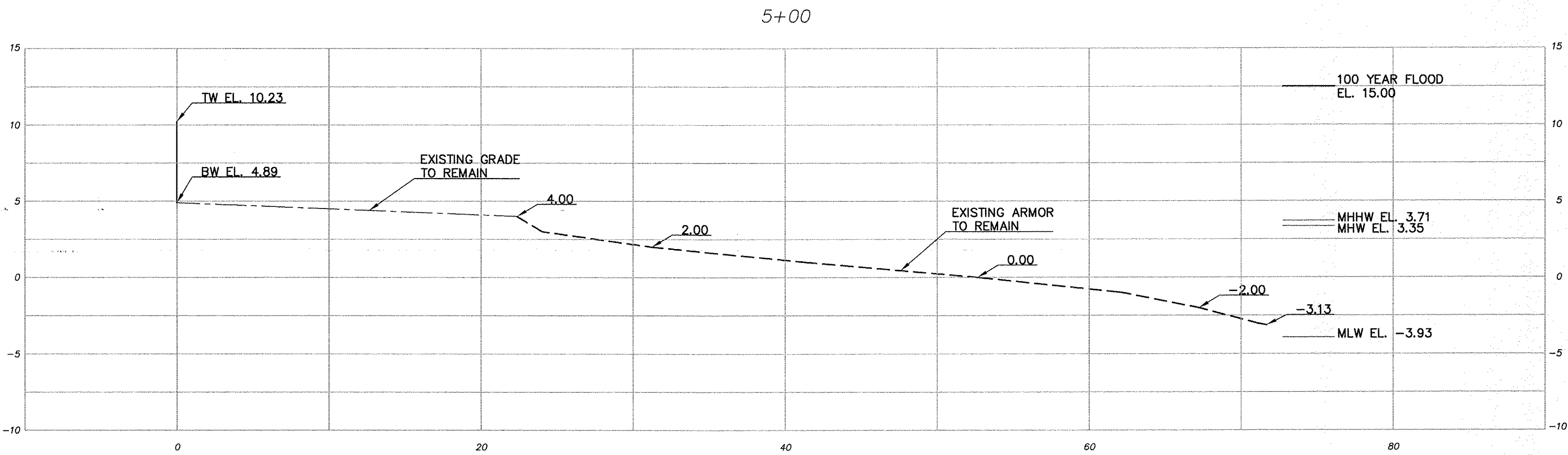
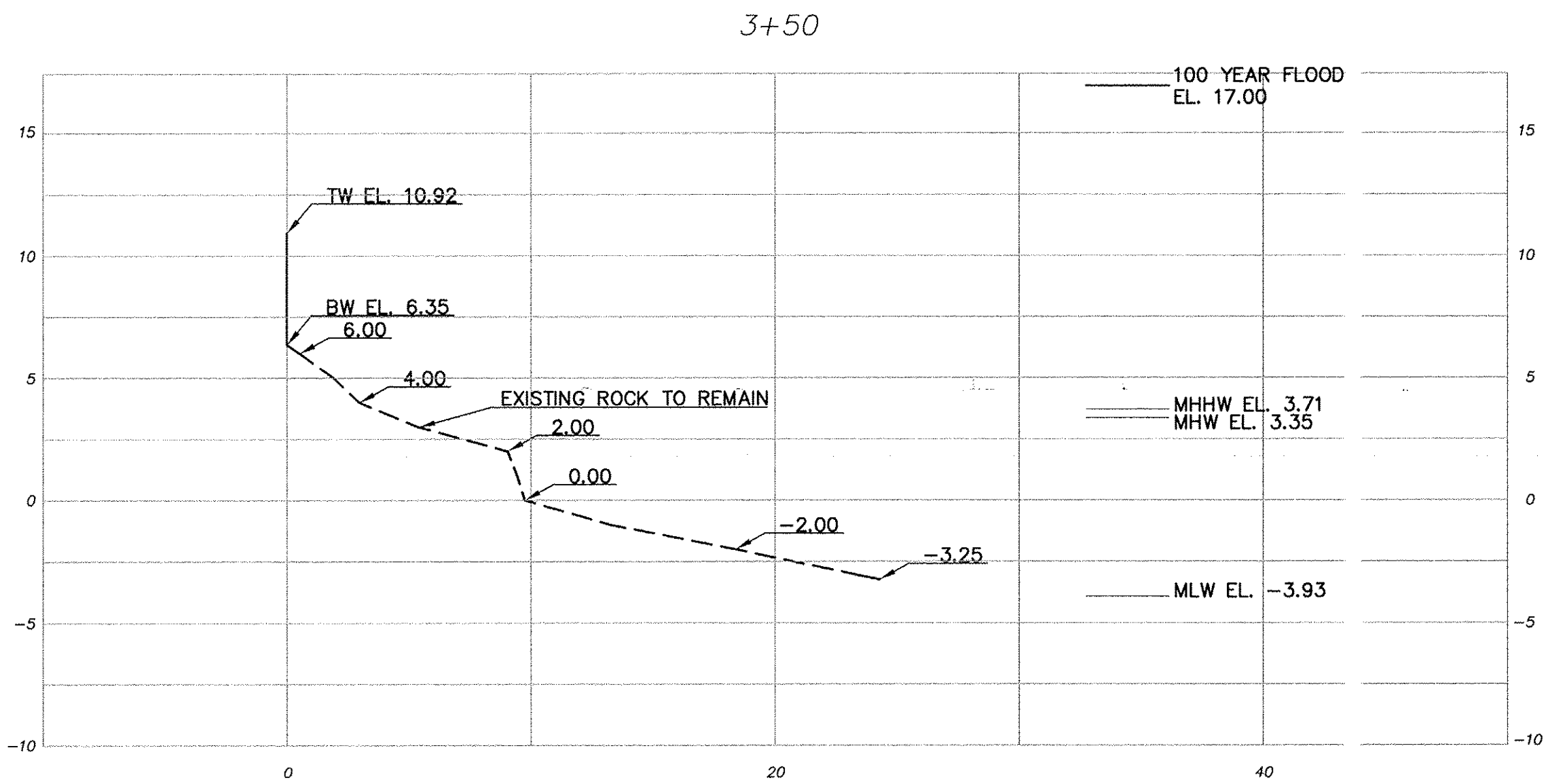
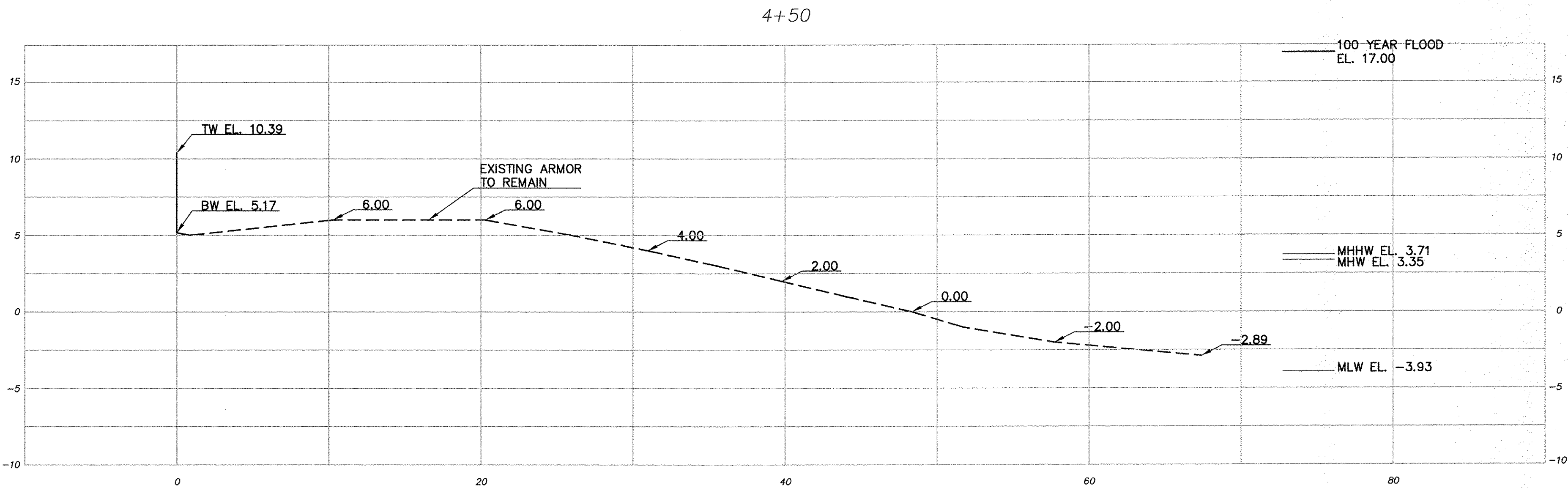
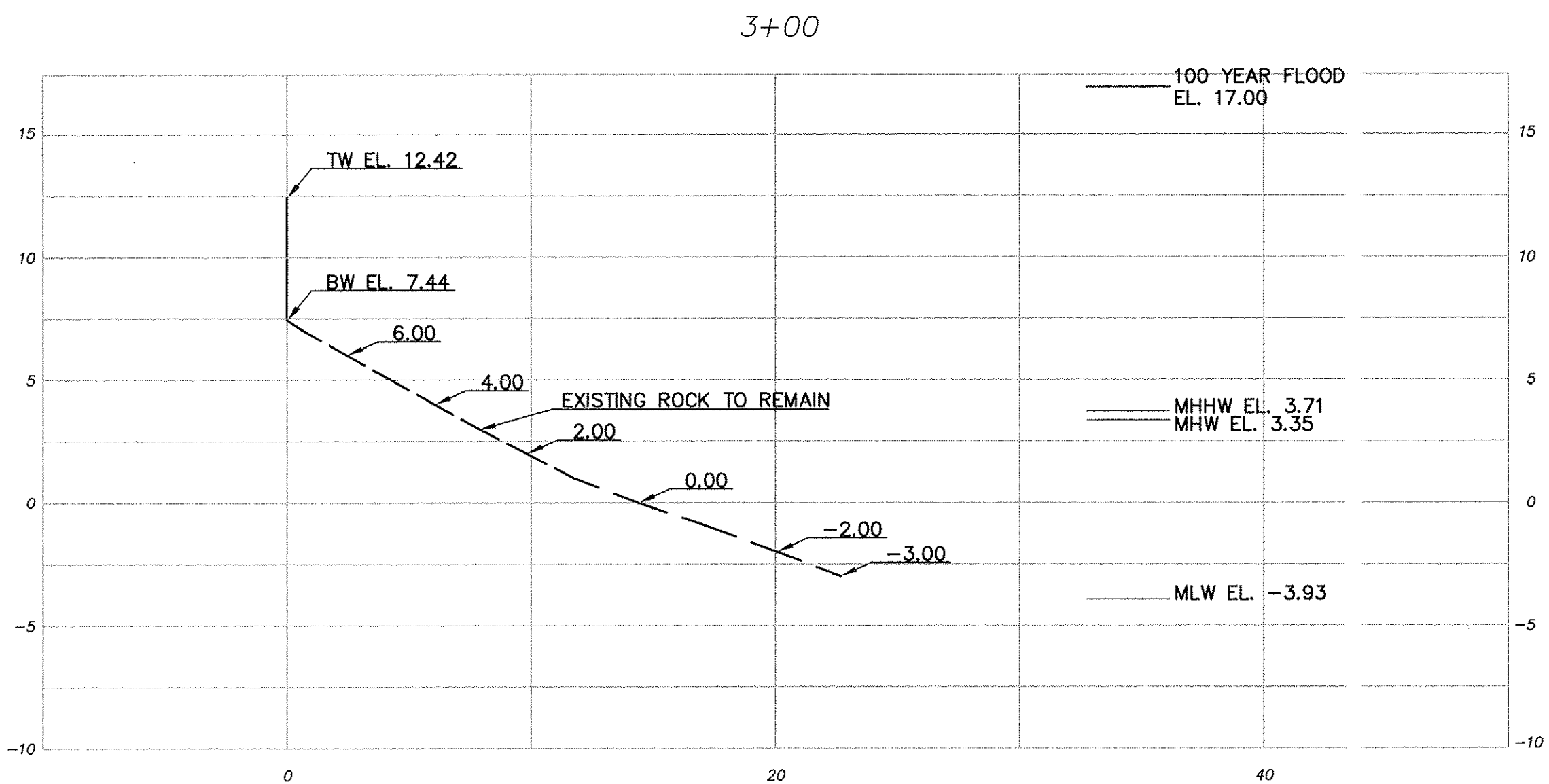
CONSULTANT INFORMATION

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TEL: (201) 641-0770 • FAX: (201) 641-1831
N.J. CERTIFICATE OF AUTHORIZATION NO. 246A27958000

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

SUPERSTORM SANDY REHABILITATION
GLEN ISLAND PARK SEAWALLS AND PAVILIONS
NEW ROCHELLE, NEW YORK
LOC. 3 STA. 0+00 TO STA. 2+50-CROSS SECTIONS

CONTRACT NUMBER 15-531	SHEET NUMBER 25
SHEET NO. 25 OF 34	
SCALE: 3/16"=1'-0"	
DATE: MAY 2018	
DPW FILE NO. 5-18-G-123	REV. NO. 0



LEGEND:

PROPOSED TOE ARMOR ————
EXISTING TOE ARMOR - - - - -
EXISTING GRADE - - - - -
BW - BOTTOM OF WALL (EXPOSED)
TW - TOP OF WALL
BA - BOTTOM OF ARMOR
TA - TOP OF ARMOR
MHHW - MEAN HIGH HIGH WATER
MHW - MEAN HIGH WATER
MLW - MEAN LOW WATER
TR - TOP OF REVETMENT

NOTES

- FOR GENERAL NOTES, SEE SHEET 2.
- FOR LOCATION OF CROSS SECTION 3+00, SEE SHEET 20.
- FOR LOCATIONS OF CROSS SECTIONS 3+50-5+50, SEE SHEET 21.

UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF J. R. VALENTIN, P.E.
CHECKED BY J. R. VALENTIN, P.E.
MADE BY C. LINO

REVISION	DATE	MADE	APP'D

RECORD DRAWING CERTIFICATION

☐ AS BUILT - CHANGES AS NOTED
☐ AS BUILT - NO CHANGES

CONTRACTOR

NAME _____
SIGNATURE _____
TITLE _____ DATE _____

PROJECT COORDINATOR

NAME _____
SIGNATURE _____
TITLE _____ DATE _____



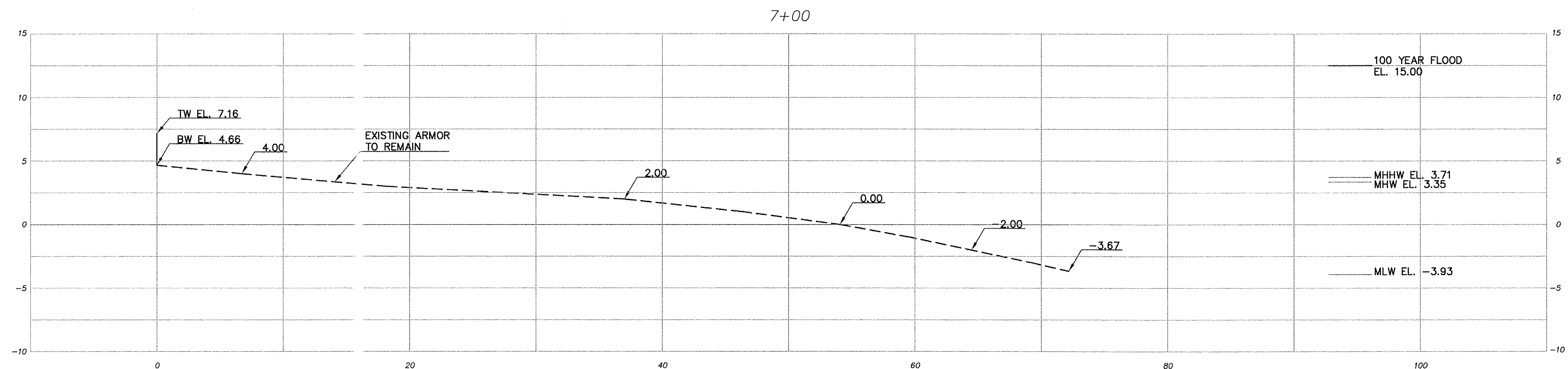
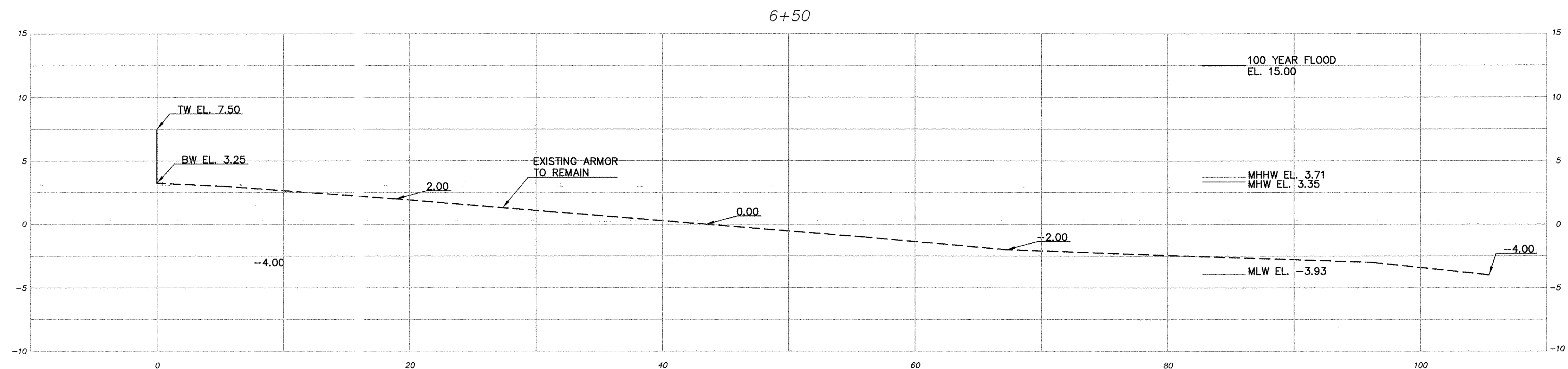
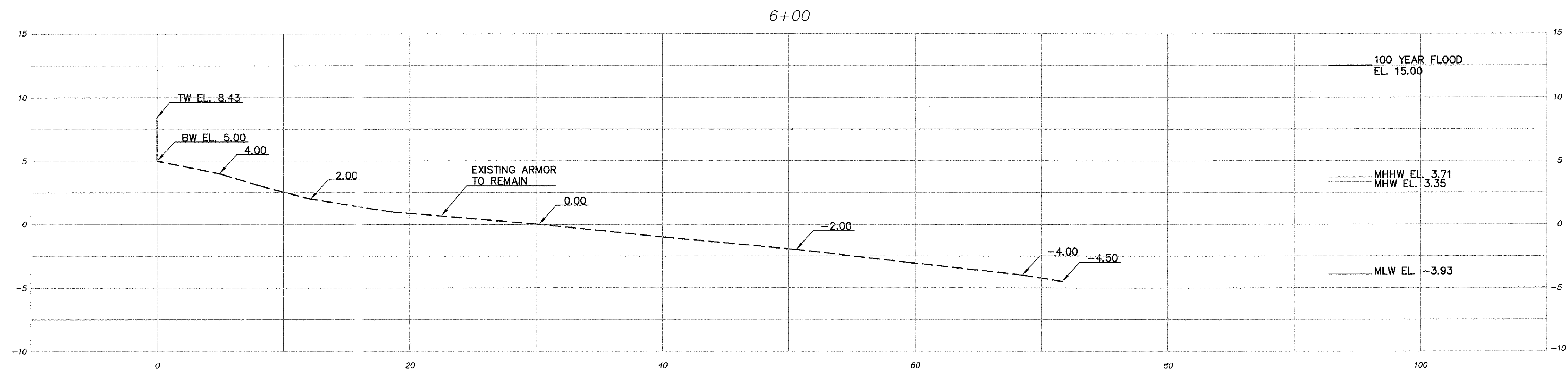
CONSULTANT INFORMATION

Boswell ENGINEERING
ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
TEL: (201) 641-0770 • FAX: (201) 641-1831
N.J. CERTIFICATE OF AUTHORIZATION NO. 246A27958000

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

SUPERSTORM SANDY REHABILITATION
GLEN ISLAND PARK SEAWALLS AND PAVILIONS
NEW ROCHELLE, NEW YORK
LOC. 3 STA. 3+00 TO STA. 5+50-CROSS SECTIONS

CONTRACT NUMBER	SHEET NUMBER
15-531	26
SHEET NO. 26 OF 34	
SCALE: 3/16"=1'-0"	
DATE: MAY 2018	
DPW FILE NO.	
5-18-G-124	REV. NO. 0



LEGEND:

PROPOSED TOE ARMOR ———
 EXISTING TOE ARMOR - - - - -
 EXISTING GRADE - - - - -
 BW - BOTTOM OF WALL (EXPOSED)
 TW - TOP OF WALL
 BA - BOTTOM OF ARMOR

TA - TOP OF ARMOR
 MHHW - MEAN HIGH HIGH WATER
 MHW - MEAN HIGH WATER
 MLW - MEAN LOW WATER
 TR - TOP OF REVETMENT
 TR - TOP OF REVETMENT

NOTES

- FOR GENERAL NOTES, SEE SHEET 2.
- FOR LOCATIONS OF CROSS SECTIONS 6+00-7+00, SEE SHEET 22.

UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF J. R. VALENTIN, P.E.
 CHECKED BY J. R. VALENTIN, P.E.
 MADE BY C. LINO

REVISION	DATE	MADE	APP'D

REVISION	DATE	MADE	APP'D

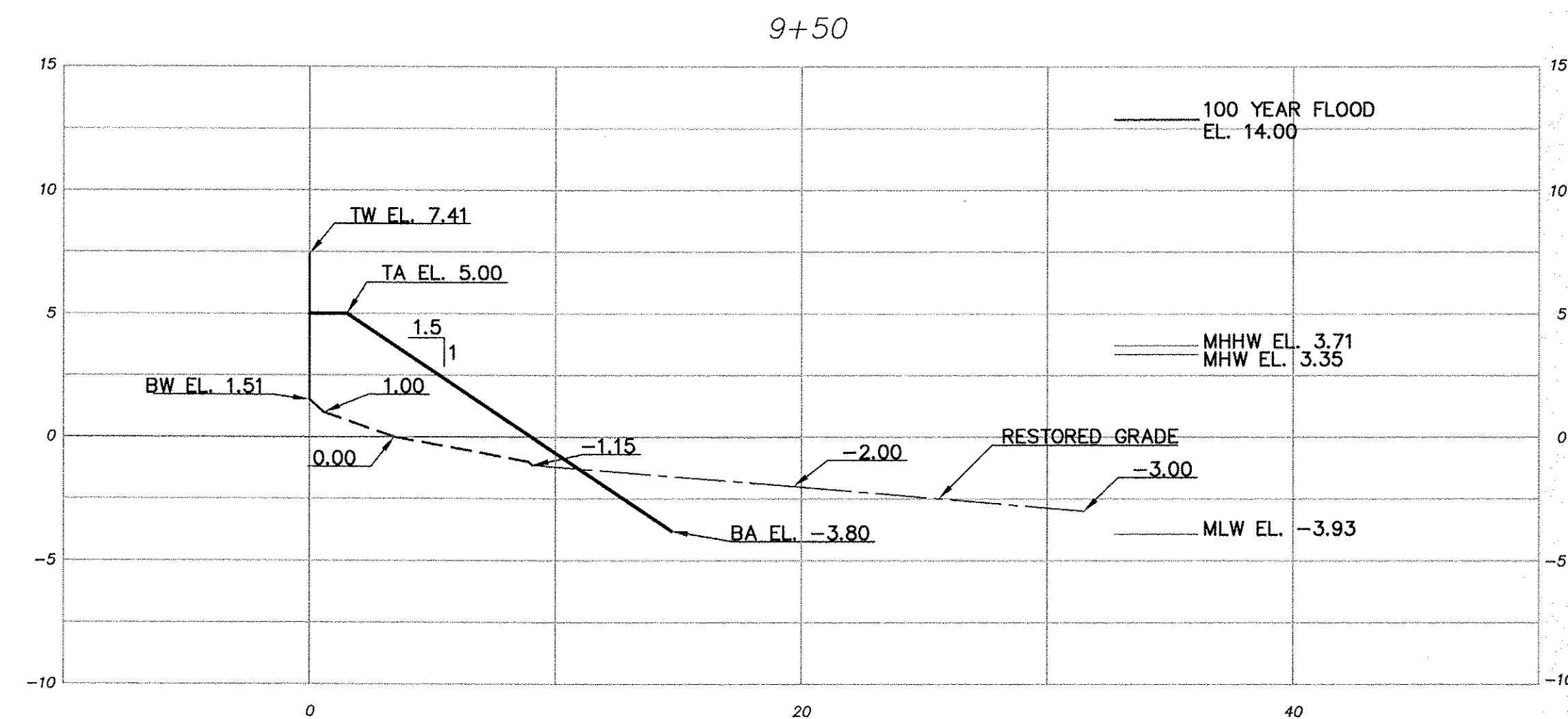
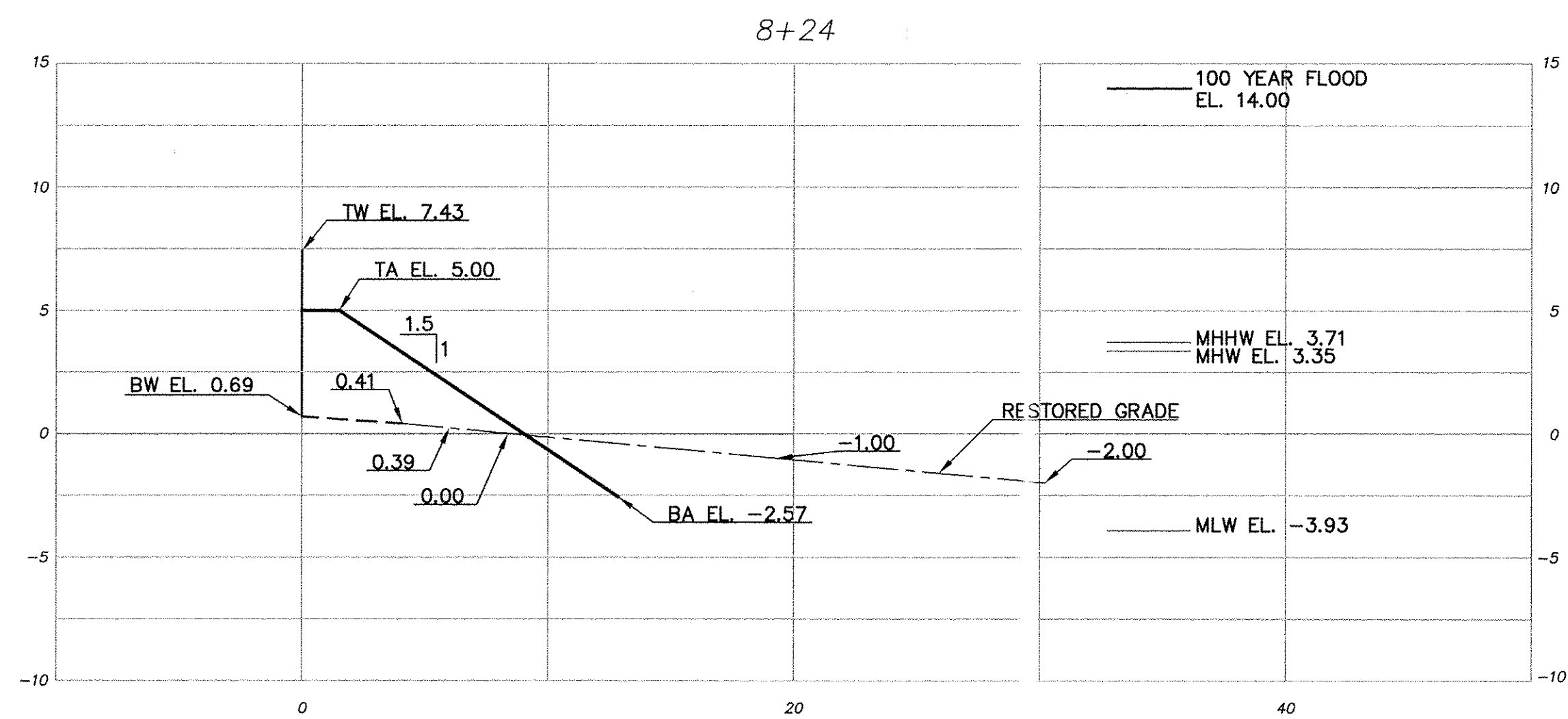
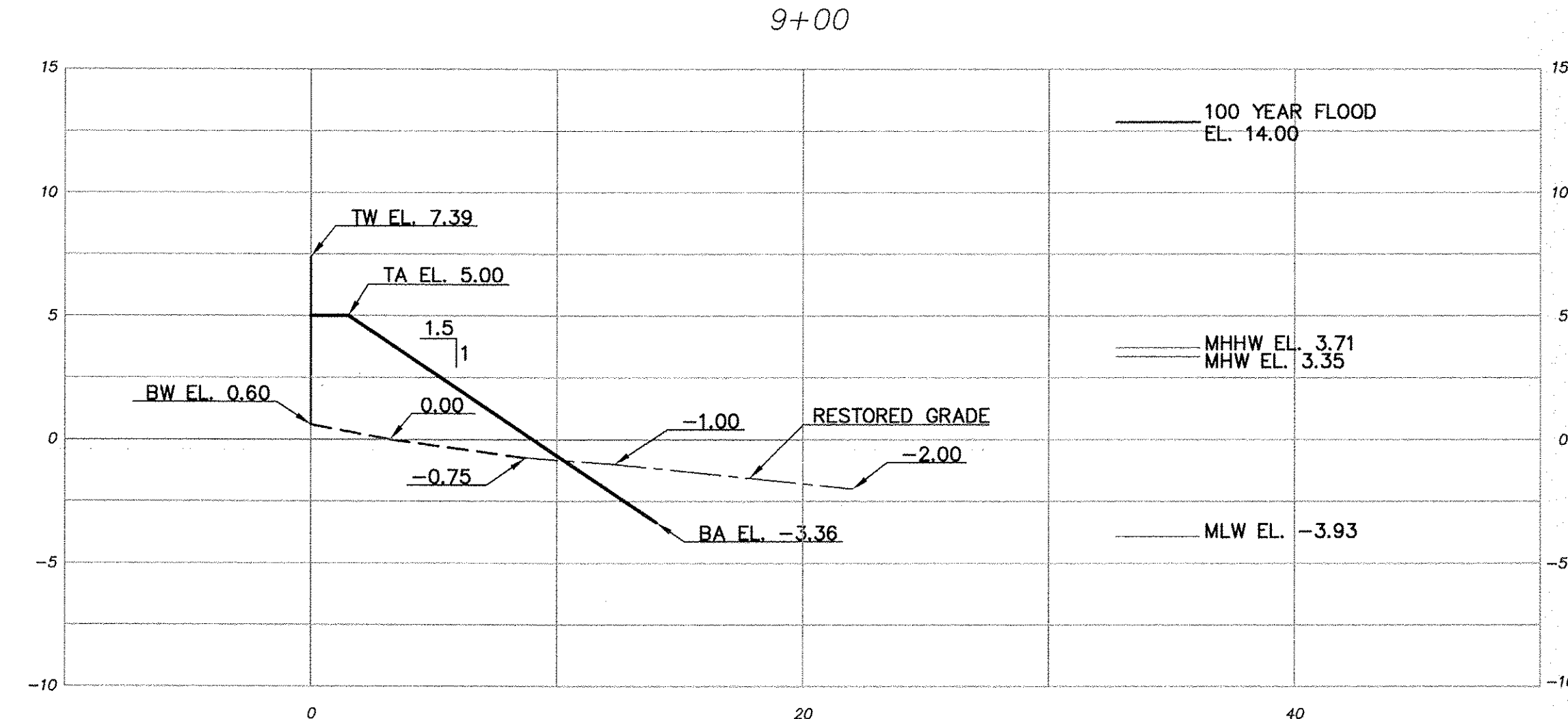
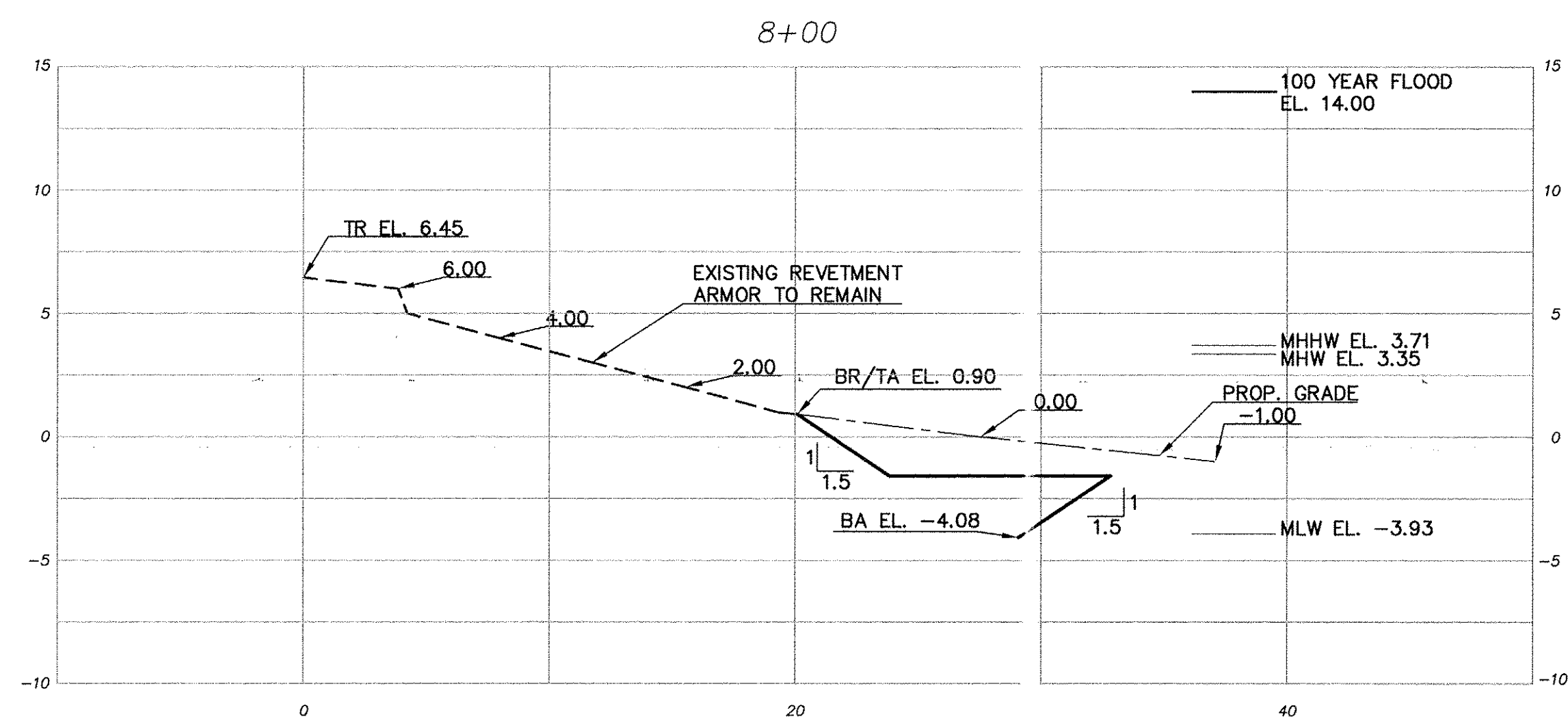
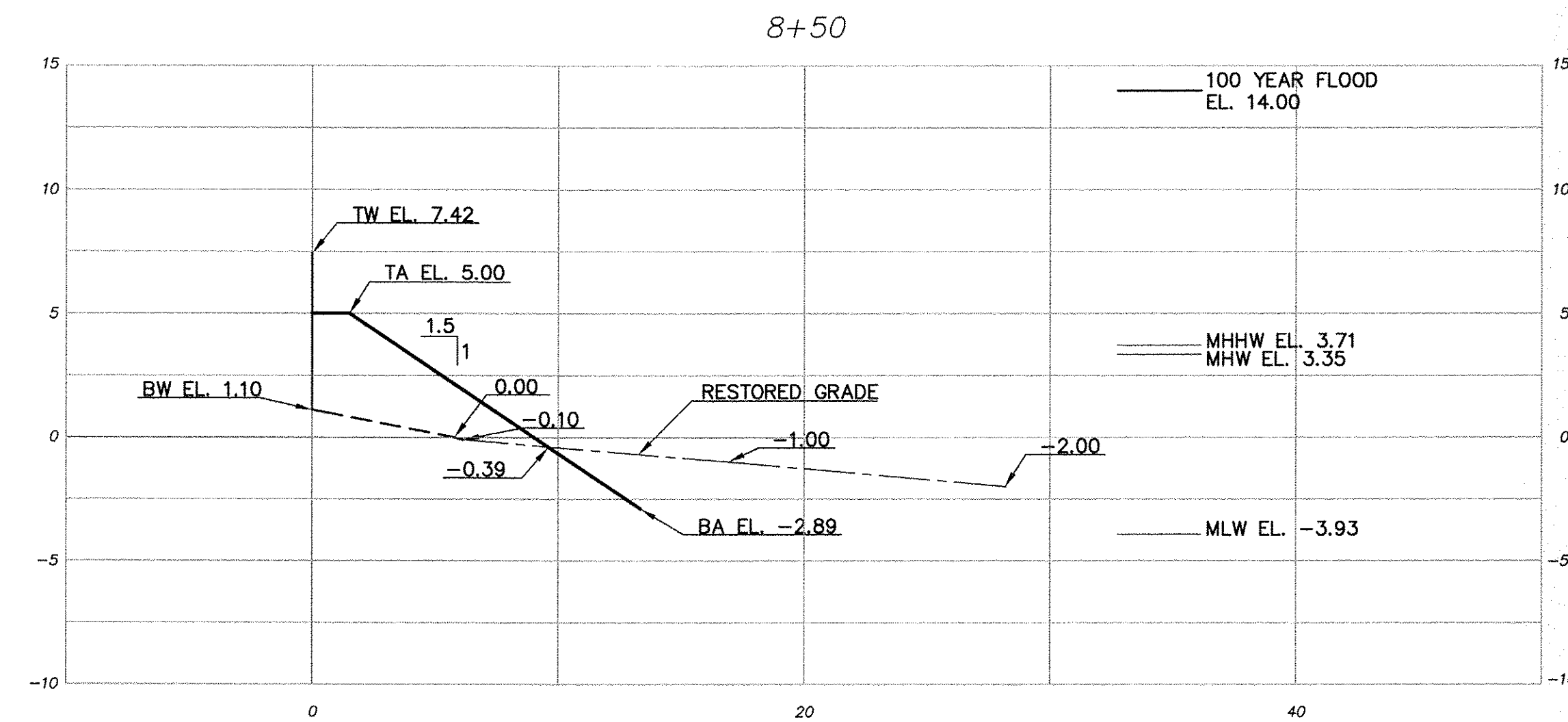
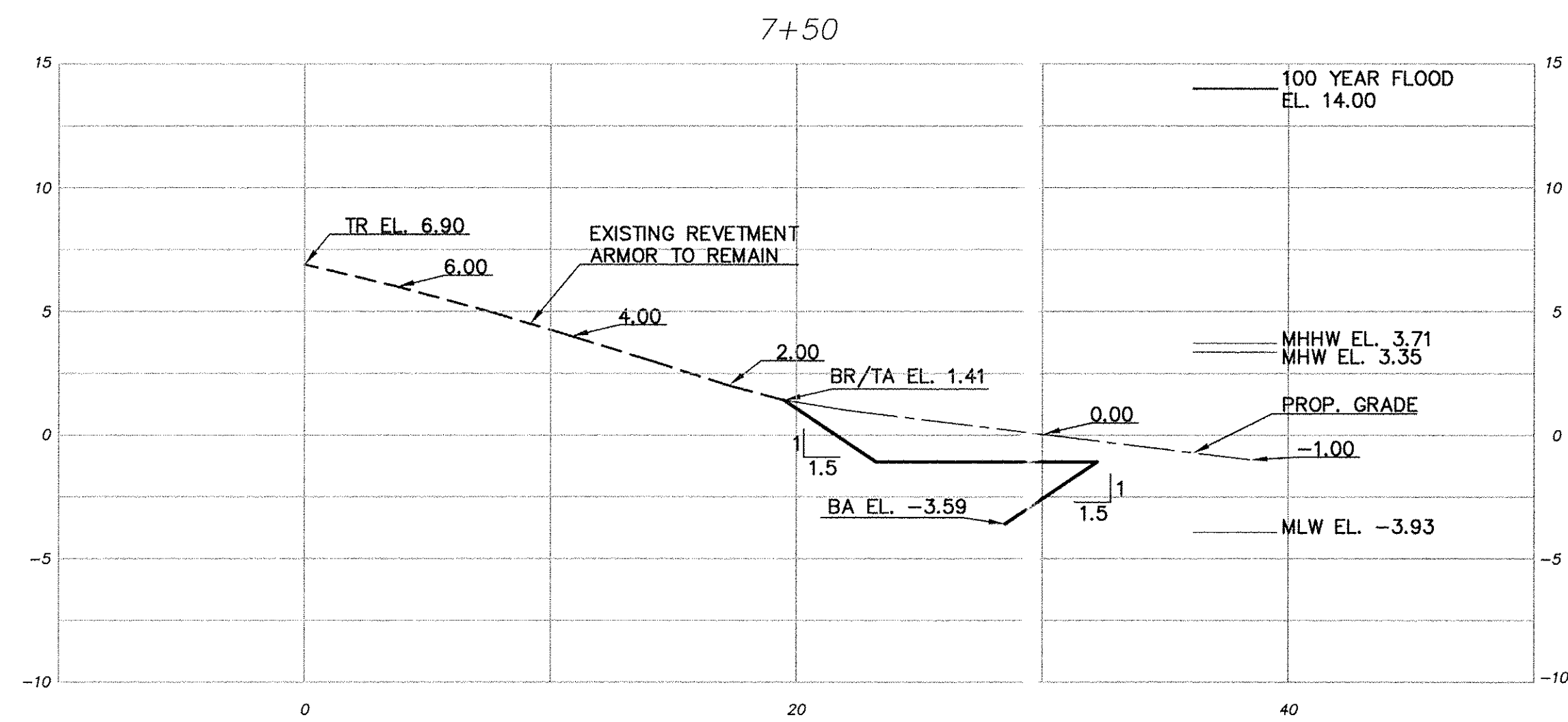
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CONTRACTOR		PROJECT COORDINATOR	
NAME _____	NAME _____	NAME _____	NAME _____
SIGNATURE _____	SIGNATURE _____	SIGNATURE _____	SIGNATURE _____
TITLE _____	TITLE _____	TITLE _____	TITLE _____



CONSULTANT INFORMATION

Boswell ENGINEERING
 ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
 330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
 TEL: (201) 641-0770 • FAX: (201) 641-1831
 N.J. CERTIFICATE OF AUTHORIZATION NO. 246A27958000

WESTCHESTER COUNTY, NEW YORK		CONTRACT NUMBER 15-531	SHEET NUMBER 27
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		SHEET NO. 27 OF 34	
DIVISION OF ENGINEERING		SCALE: 3/16"=1'-0"	
SUPERSTORM SANDY REHABILITATION		DATE: MAY 2018	
GLEN ISLAND PARK SEAWALLS AND PAVILIONS		DPW FILE NO.	
NEW ROCHELLE, NEW YORK		REV. NO.	
LOC. 3 STA. 6+00 TO STA. 7+00-CROSS SECTIONS		5-18-G-125	
		0	



LEGEND:

PROPOSED TOE ARMOR ————
 EXISTING TOE ARMOR - - - - -
 EXISTING GRADE - - - - -
 BW - BOTTOM OF WALL (EXPOSED)
 TW - TOP OF WALL
 BA - BOTTOM OF ARMOR

TA - TOP OF ARMOR
 MHHW - MEAN HIGH HIGH WATER
 MHW - MEAN HIGH WATER
 MLW - MEAN LOW WATER
 TR - TOP OF REVETMENT
 TR - TOP OF REVETMENT

NOTES

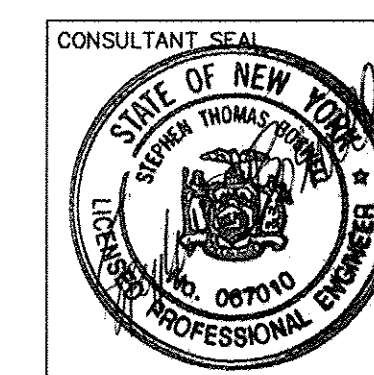
- FOR GENERAL NOTES, SEE SHEET 2.
- FOR LOCATIONS OF CROSS SECTIONS 7+50-9+50, SEE SHEET 23.

UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF J. R. VALENTIN, P.E.
 CHECKED BY J. R. VALENTIN, P.E.
 MADE BY C. LINO

REVISION	DATE	MADE	APP'D	REVISION

RECORD DRAWING CERTIFICATION			
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES			
CONTRACTOR		PROJECT COORDINATOR	
NAME _____	NAME _____	NAME _____	NAME _____
SIGNATURE _____	SIGNATURE _____	SIGNATURE _____	SIGNATURE _____
TITLE _____	TITLE _____	TITLE _____	TITLE _____
DATE _____	DATE _____	DATE _____	DATE _____



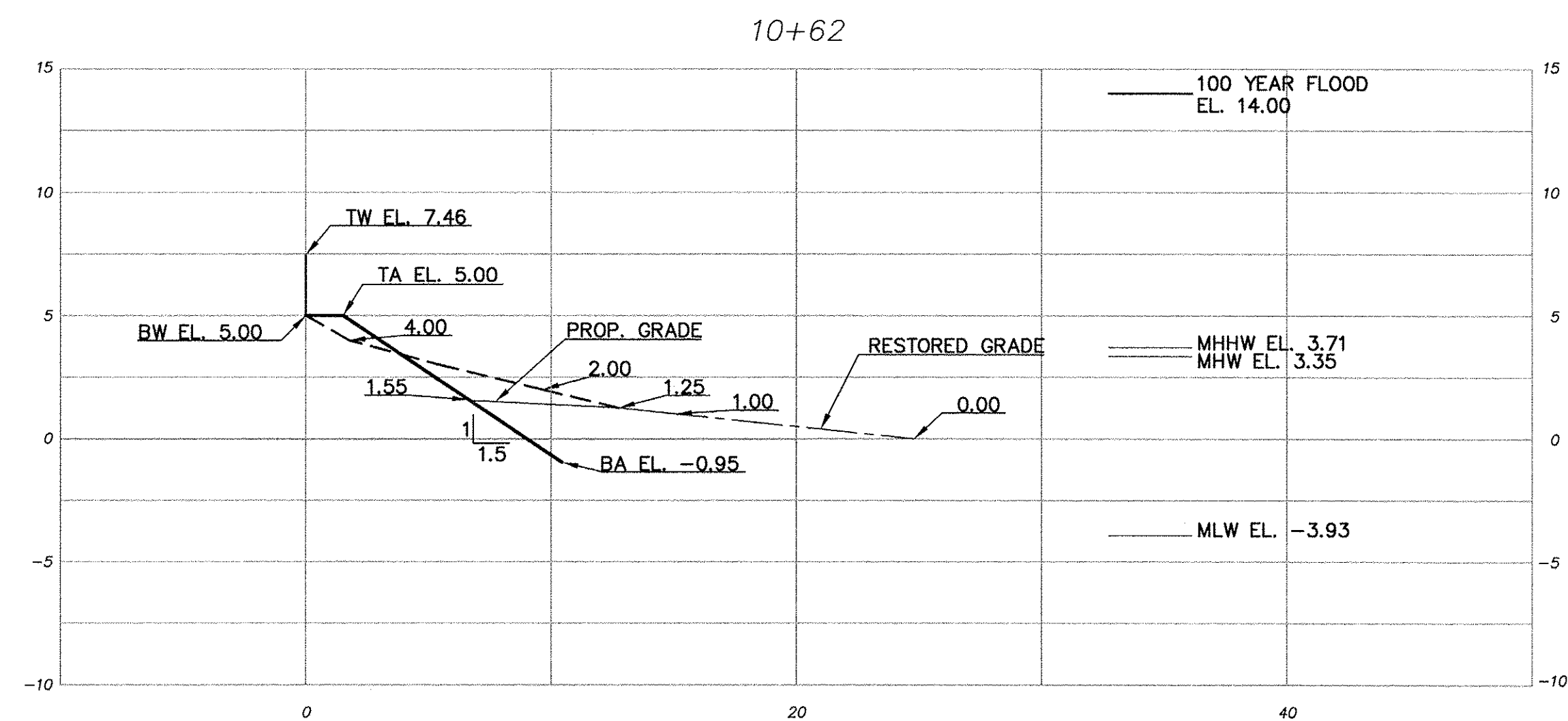
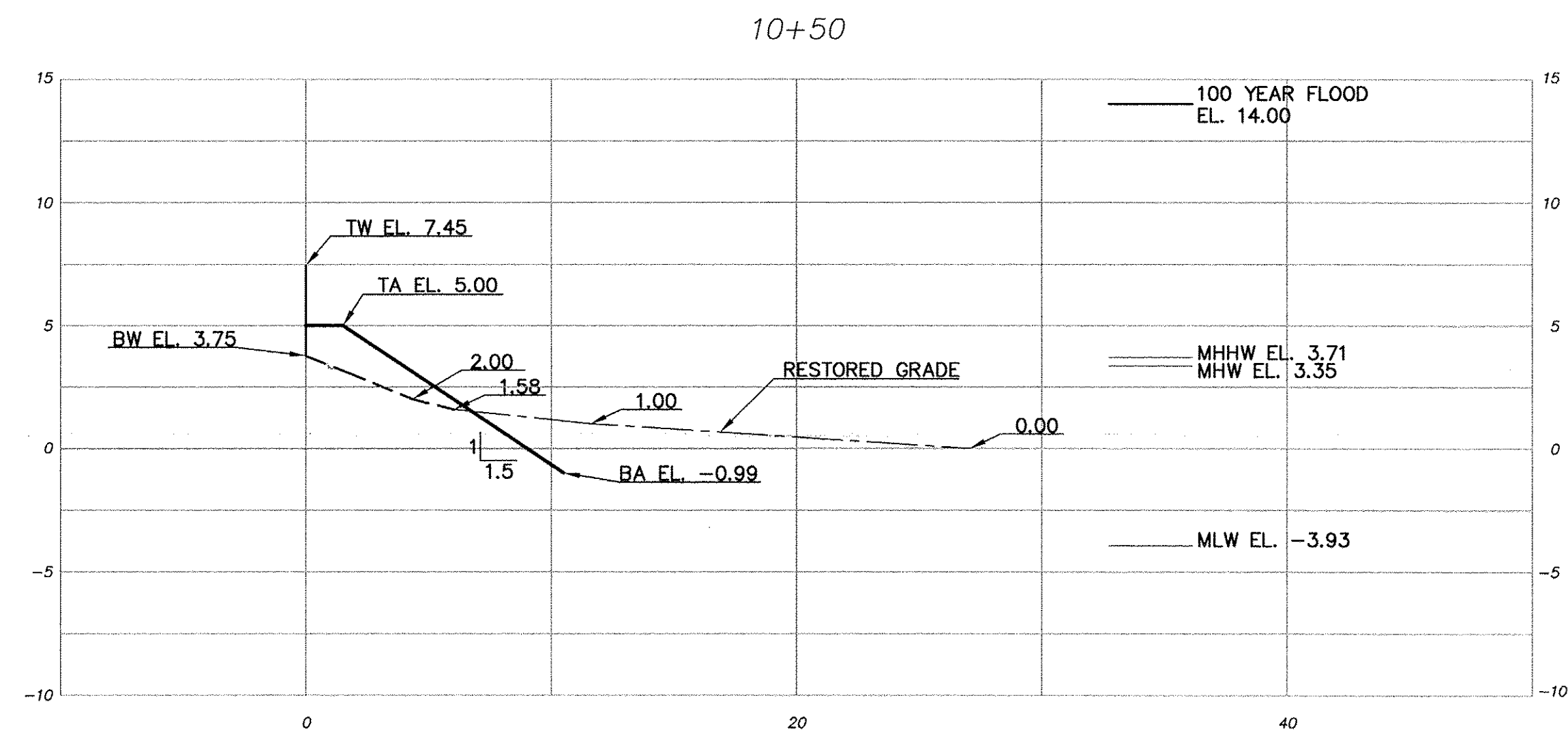
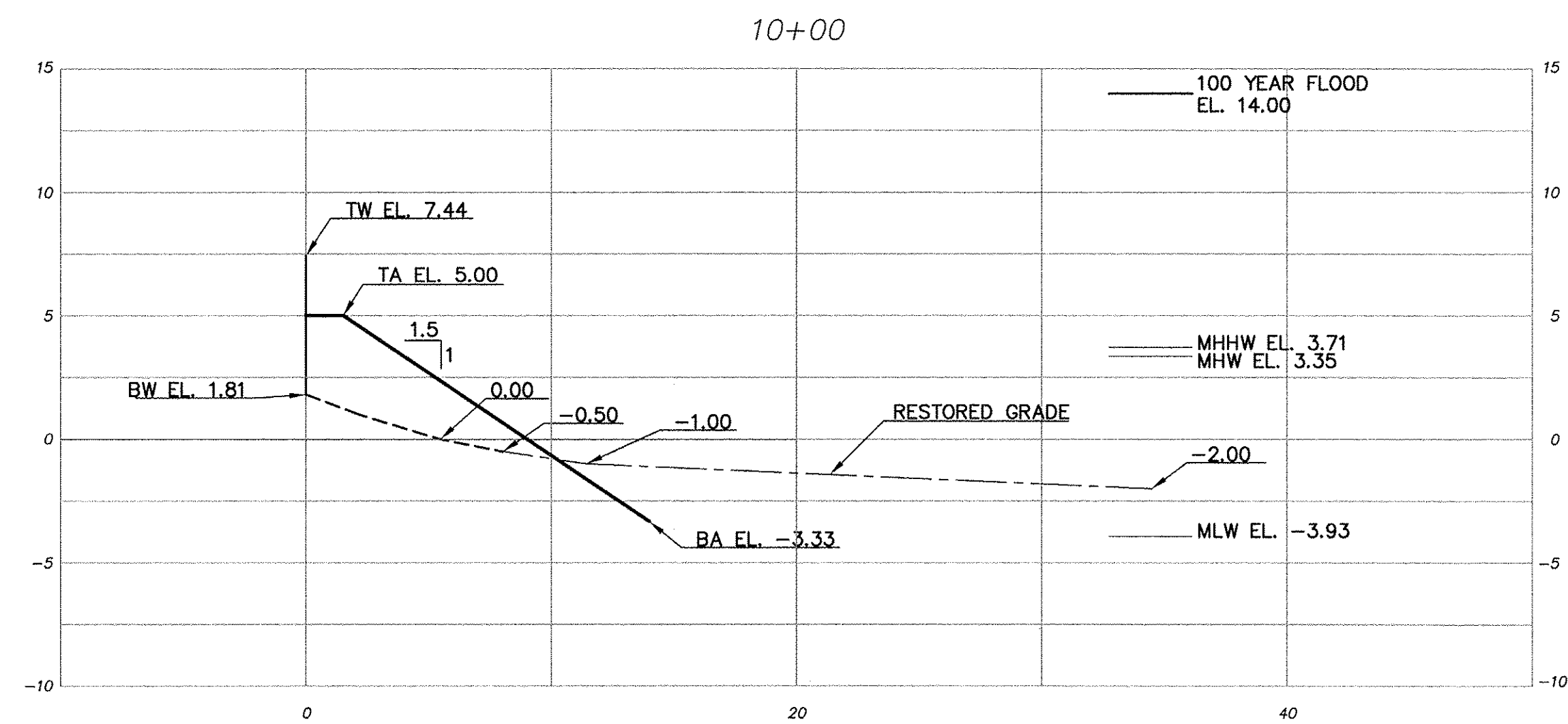
CONSULTANT INFORMATION

Boswell ENGINEERING

ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS

330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
 TEL: (201) 641-0770 • FAX: (201) 641-1831
 N.J. CERTIFICATE OF AUTHORIZATION NO. 246027958000

WESTCHESTER COUNTY, NEW YORK		CONTRACT NUMBER	SHEET NUMBER
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		15-531	28
DIVISION OF ENGINEERING		SHEET NO. 28 OF 34	
SUPERSTORM SANDY REHABILITATION		SCALE: 3/16"=1'-0"	
GLEN ISLAND PARK SEAWALLS AND PAVILIONS		DATE: MAY 2018	
NEW ROCHELLE, NEW YORK		DPW FILE NO.	
LOC. 3 STA. 7+50 TO STA. 9+50-CROSS SECTIONS		5-18-6-126	
		REV. NO.	
		0	



LEGEND:

PROPOSED TOE ARMOR ———
 EXISTING TOE ARMOR - - - -
 EXISTING GRADE - - - -
 BW - BOTTOM OF WALL (EXPOSED)
 TW - TOP OF WALL
 BA - BOTTOM OF ARMOR

TA - TOP OF ARMOR
 MHHW - MEAN HIGH HIGH WATER
 MHW - MEAN HIGH WATER
 MLW - MEAN LOW WATER
 TR - TOP OF REVETMENT
 TR - TOP OF REVETMENT

NOTES

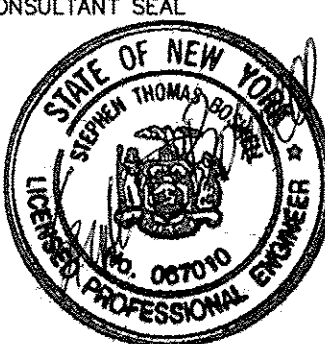
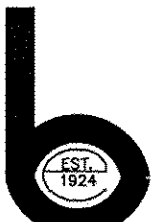
- FOR GENERAL NOTES, SEE SHEET 2.
- FOR LOCATIONS OF CROSS SECTIONS 10+00-10+62, SEE SHEET 24.

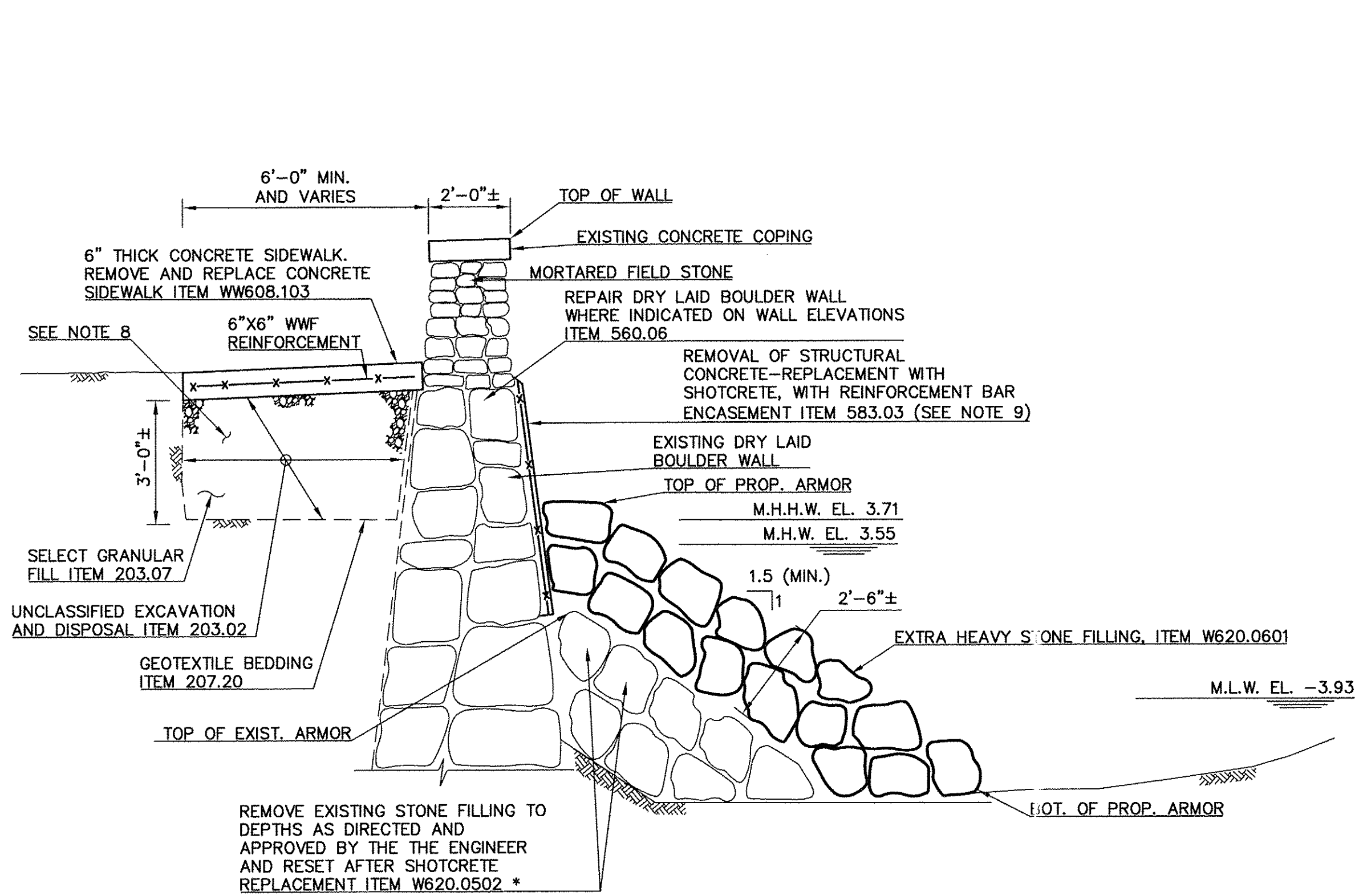
UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF J. R. VALENTIN, P.E.
 CHECKED BY J. R. VALENTIN, P.E.
 MADE BY C. LINO

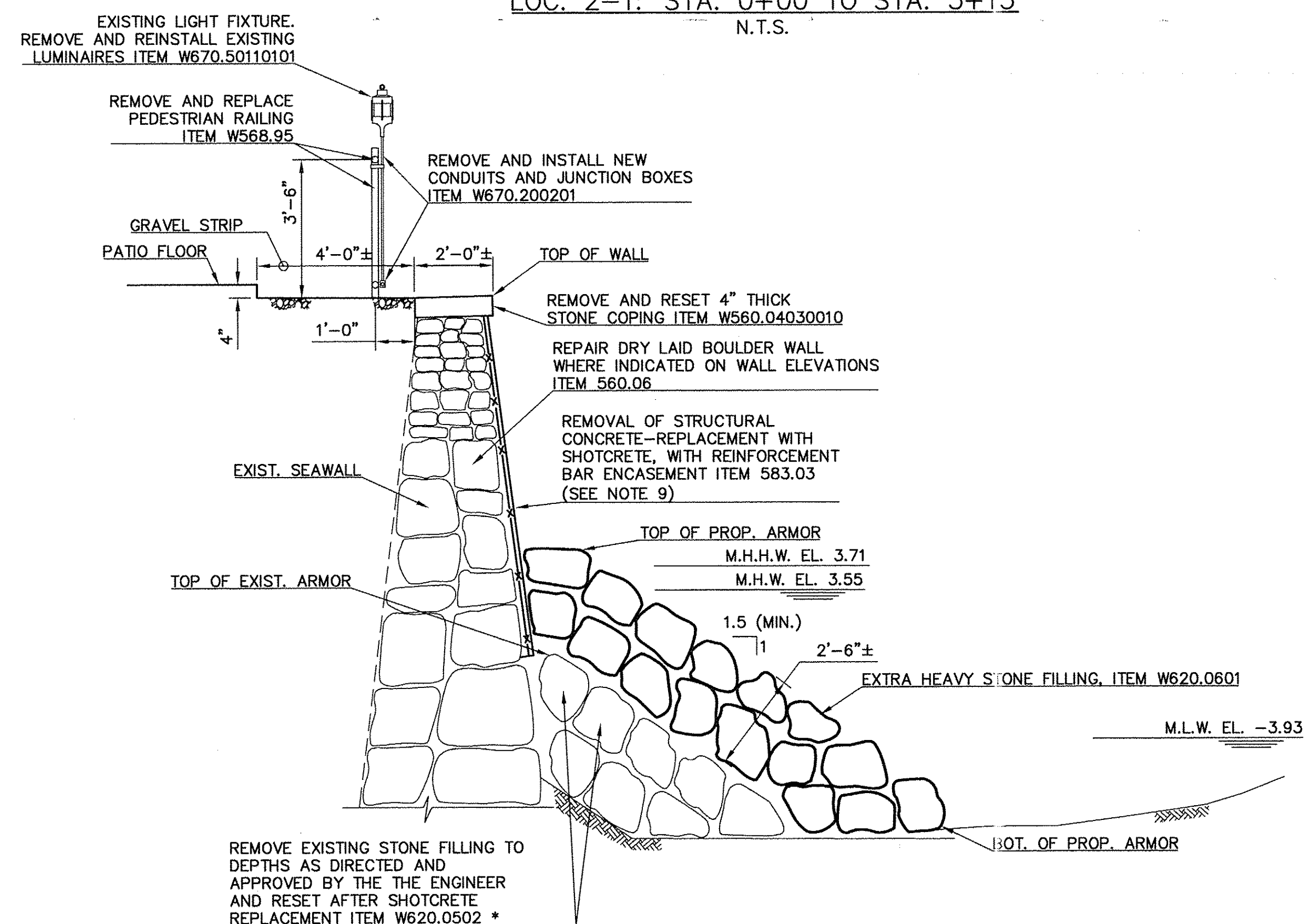
REVISION	DATE	MADE	APP'D	REVISION

RECORD DRAWING CERTIFICATION			
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CONTRACTOR		PROJECT COORDINATOR	
NAME		NAME	
SIGNATURE		SIGNATURE	
TITLE		TITLE	

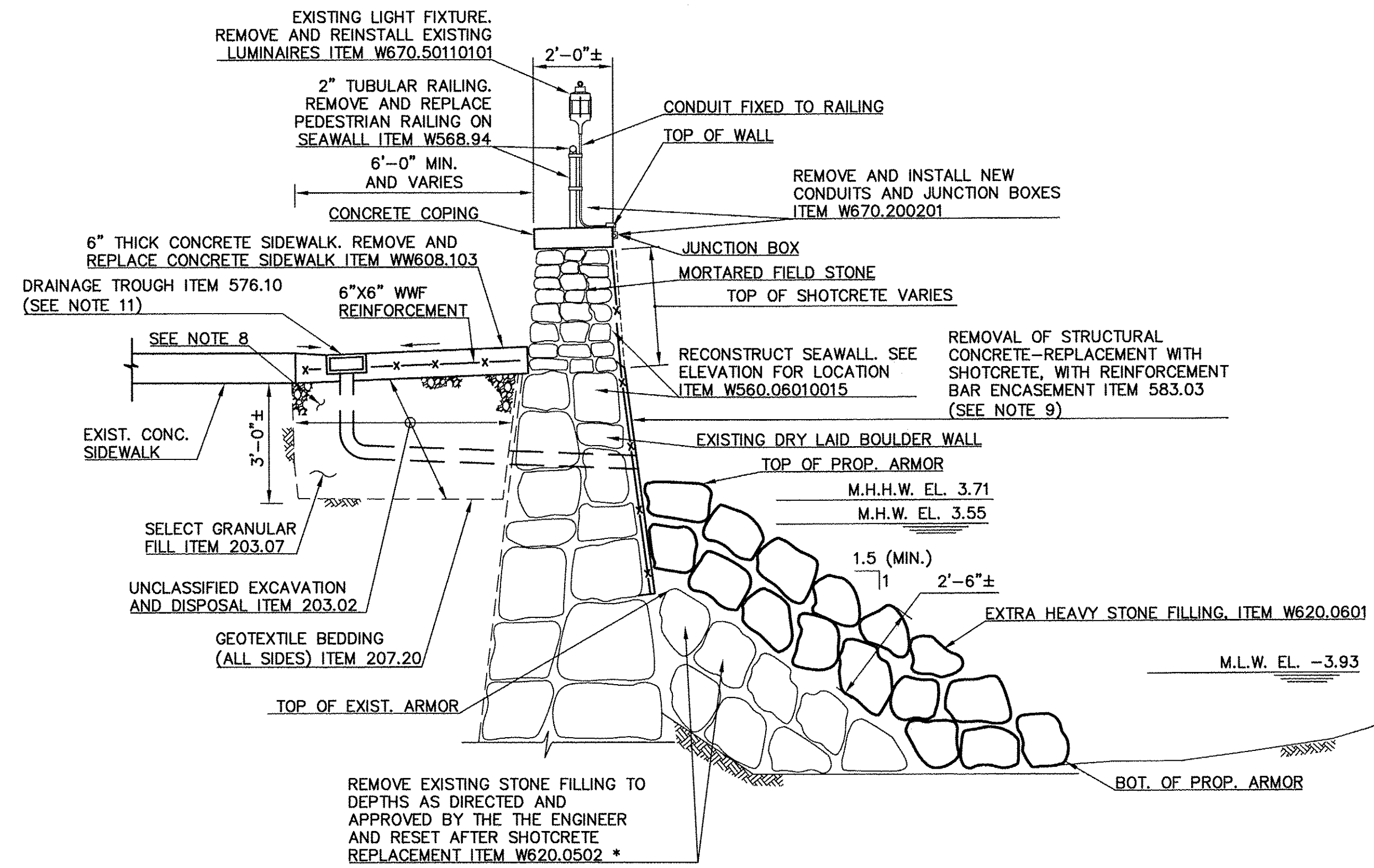
CONSULTANT SEAL		CONSULTANT INFORMATION	
		 Boswell ENGINEERING ENGINEERS — SURVEYORS — PLANNERS — SCIENTISTS 330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606 TEL: (201) 641-0770 • FAX: (201) 641-1831 N.J. CERTIFICATE OF AUTHORIZATION NO. 246A27958000	
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 15-531	SHEET NUMBER 29
		SHEET NO. 29 OF 34 SCALE: 3/16"=1'-0" DATE: MAY 2018 DPW FILE NO. 5-18-G-127 REV. NO. 0	
SUPERSTORM SANDY REHABILITATION GLEN ISLAND PARK SEAWALLS AND PAVILIONS NEW ROCHELLE, NEW YORK LOC. 3 STA. 10+00 TO STA. 10+62-CROSS SECTIONS			



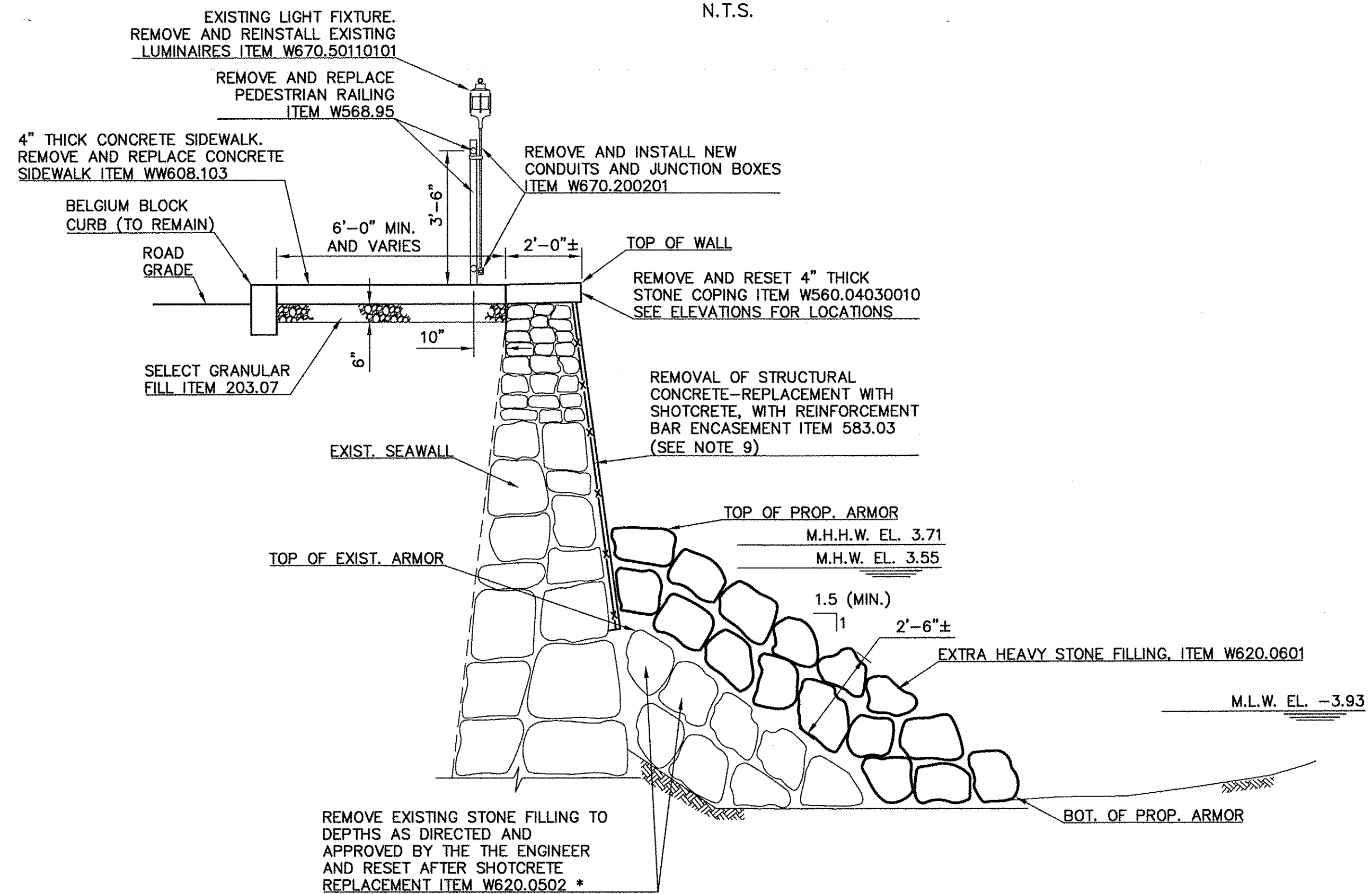
PROPOSED CROSS SECTION G-G
LOC. 2-1: STA. 0+00 TO STA. 3+13
N.T.S.



PROPOSED CROSS SECTION J-J
LOC. 2-2: STA. 0+00 TO STA. 1+52
N.T.S.



PROPOSED CROSS SECTION H-H
LOC. 2-1: STA. 3+13 TO STA. 7+33
N.T.S.



PROPOSED CROSS SECTION K-K
LOC. 3: STA. 0+00 TO STA. 1+80
N.T.S.

NOTES

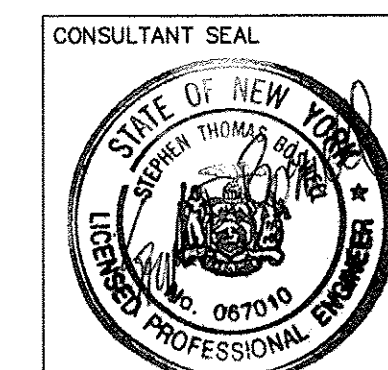
- FOR GENERAL NOTES, SEE SHEET 2.
- FOR LOCATIONS OF TYPICAL SECTION G-G, SEE SHEETS 11 & 12.
- FOR LOCATIONS OF TYPICAL SECTION H-H, SEE SHEETS 12 & 13.
- FOR LOCATION OF TYPICAL SECTION J-J, SEE SHEET 14.
- FOR LOCATIONS OF TYPICAL SECTION K-K, SEE SHEETS 19 & 20.
- FOR TYPICAL SEAWALL REHABILITATION DETAILS, SEE SHEET 32.
- FOR RAILING REPLACEMENT DETAILS, SEE SHEET 33.
- VOIDS IN FILL MATERIAL WERE FOUND UNDERNEATH THE EXISTING SIDEWALK BEHIND THE SEAWALL. THE Voids HAVE VARYING DEPTHS AND WIDTHS. THE DIMENSIONS SHOWN ON THE PLANS FOR THE LIMIT OF SIDEWALK AND FILL REPLACEMENT ARE APPROXIMATE AND MUST BE VERIFIED IN FIELD BY THE CONTRACTOR.
- INSTALL SHOTCRETE A MINIMUM OF 1FT. BELOW THE TOP OF EXISTING TOE ARMOR UNLESS BEDROCK OR BOTTOM OF SEAWALL IS ENCOUNTERED.
- NEW STONE FILLING PLACEMENT SHALL MATCH EXISTING SLOPE. HOWEVER, SHALL NOT EXCEED MAXIMUM SLOPE SHOWN.
- NEW DRAINAGE TROUGH SHALL TIE INTO EXISTING DRAIN LOCATIONS. THE GRATE FOR THE NEW DRAINAGE TROUGH SHALL BE MANUFACTURED BY ACO OR APPROVED EQUAL, AND SATISFY THE HES SAFE REQUIREMENTS WITH OPENINGS OF 0.25" OR LESS TO PREVENT HEELS BECOMING TRAPPED, CAUSING INJURY OF FALLS. DRAINAGE TROUGH SHALL BE SUBMITTED FOR REVIEW/APPROVAL BY THE ENGINEER.

UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF J. R. VALENTIN, P.E.
CHECKED BY J. R. VALENTIN, P.E.
MADE BY C. LINO

REVISION	DATE	MADE	APPROVED	REVISION

RECORD DRAWING CERTIFICATION			
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES			
CONTRACTOR		PROJECT COORDINATOR	
NAME		NAME	
SIGNATURE		SIGNATURE	
TITLE		TITLE	

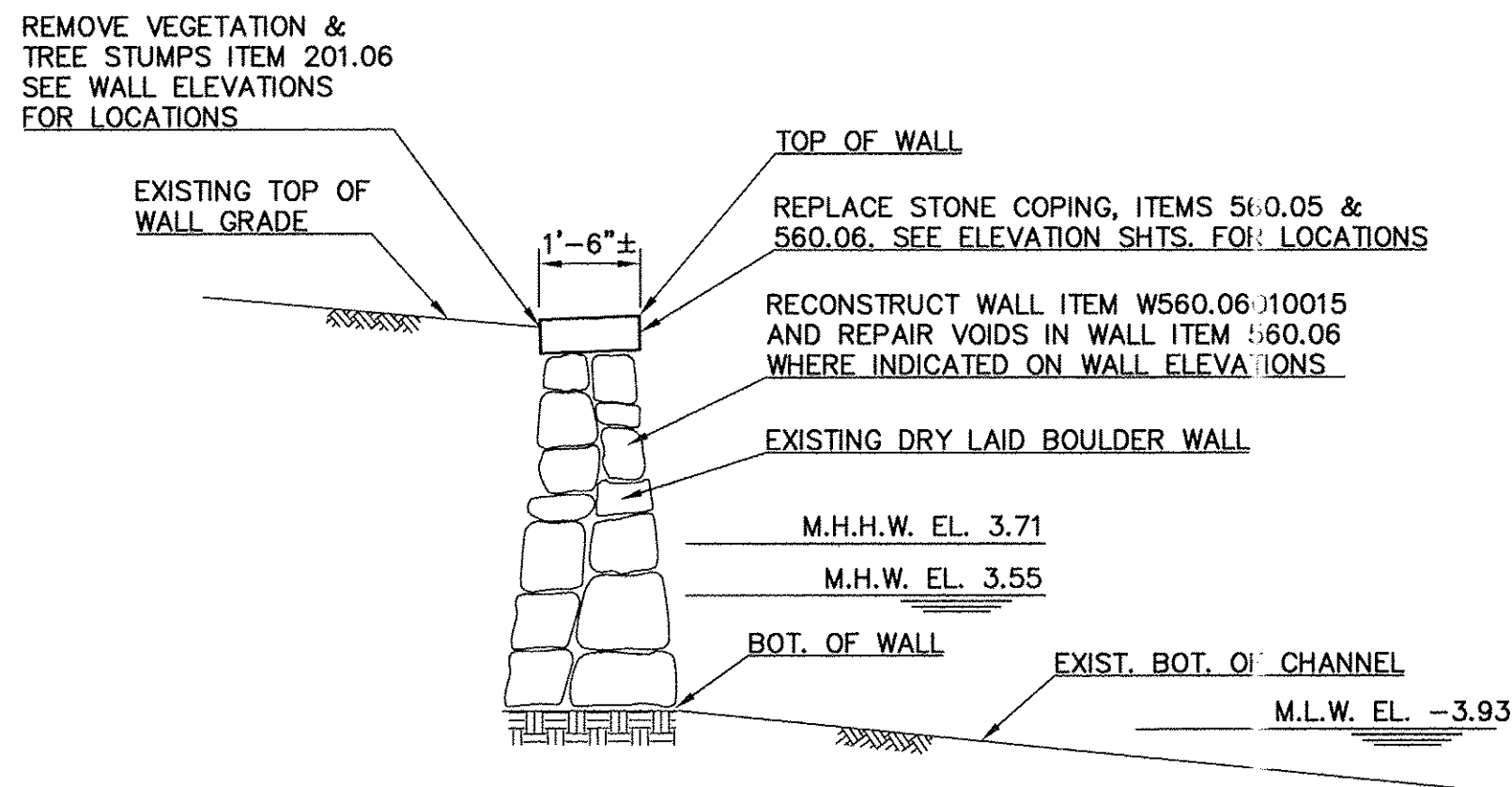


CONSULTANT INFORMATION
Boswell ENGINEERING
ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
TEL: (201) 641-0770 • FAX: (201) 641-1831
N.J. CERTIFICATE OF AUTHORIZATION NO. 246A27958000

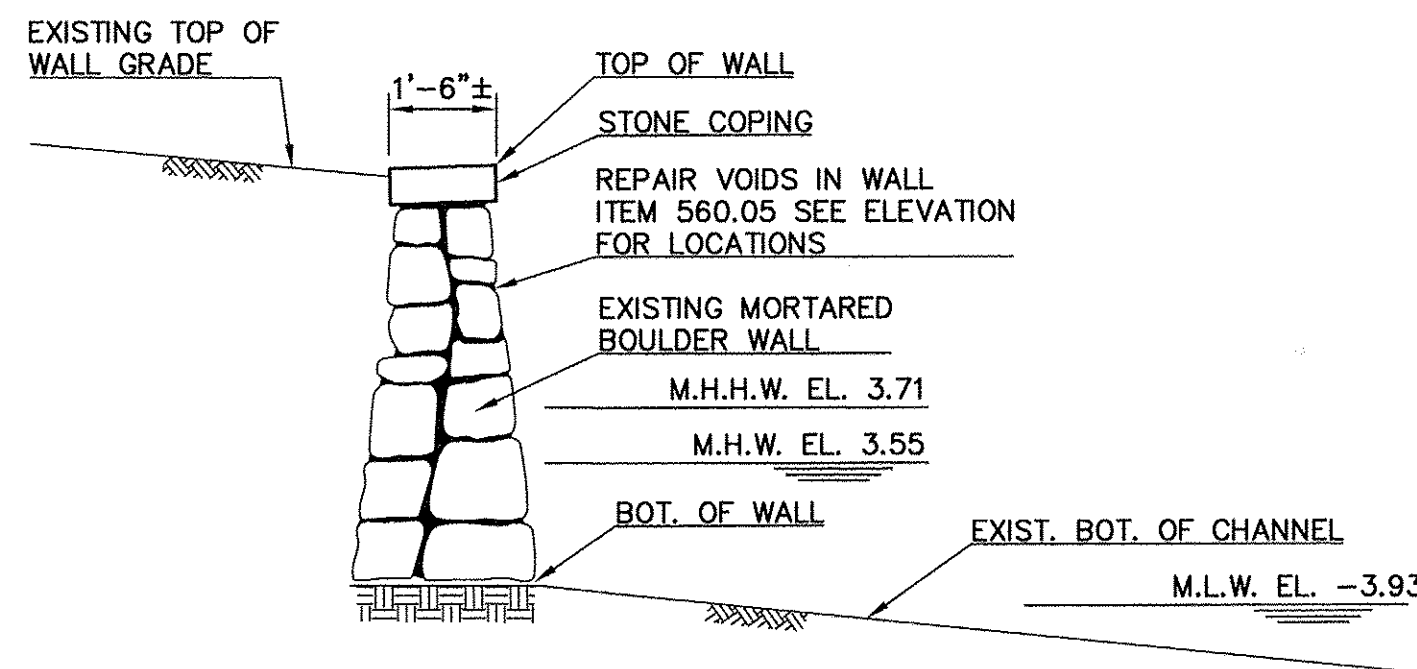
WESTCHESTER COUNTY, NEW YORK		CONTRACT NUMBER	SHEET NUMBER
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		15-531	30
DIVISION OF ENGINEERING		SHEET NO. 30 OF 34	
SUPERSTORM SANDY REHABILITATION GLEN ISLAND PARK SEAWALLS AND PAVILIONS NEW ROCHELLE, NEW YORK		SCALE: AS NOTED DATE: MAY 2018	
TYPICAL SEAWALL SECTIONS A-A TO D-D		DPW FILE NO.	REV. NO.
		5-18-G-128	0

NOTES

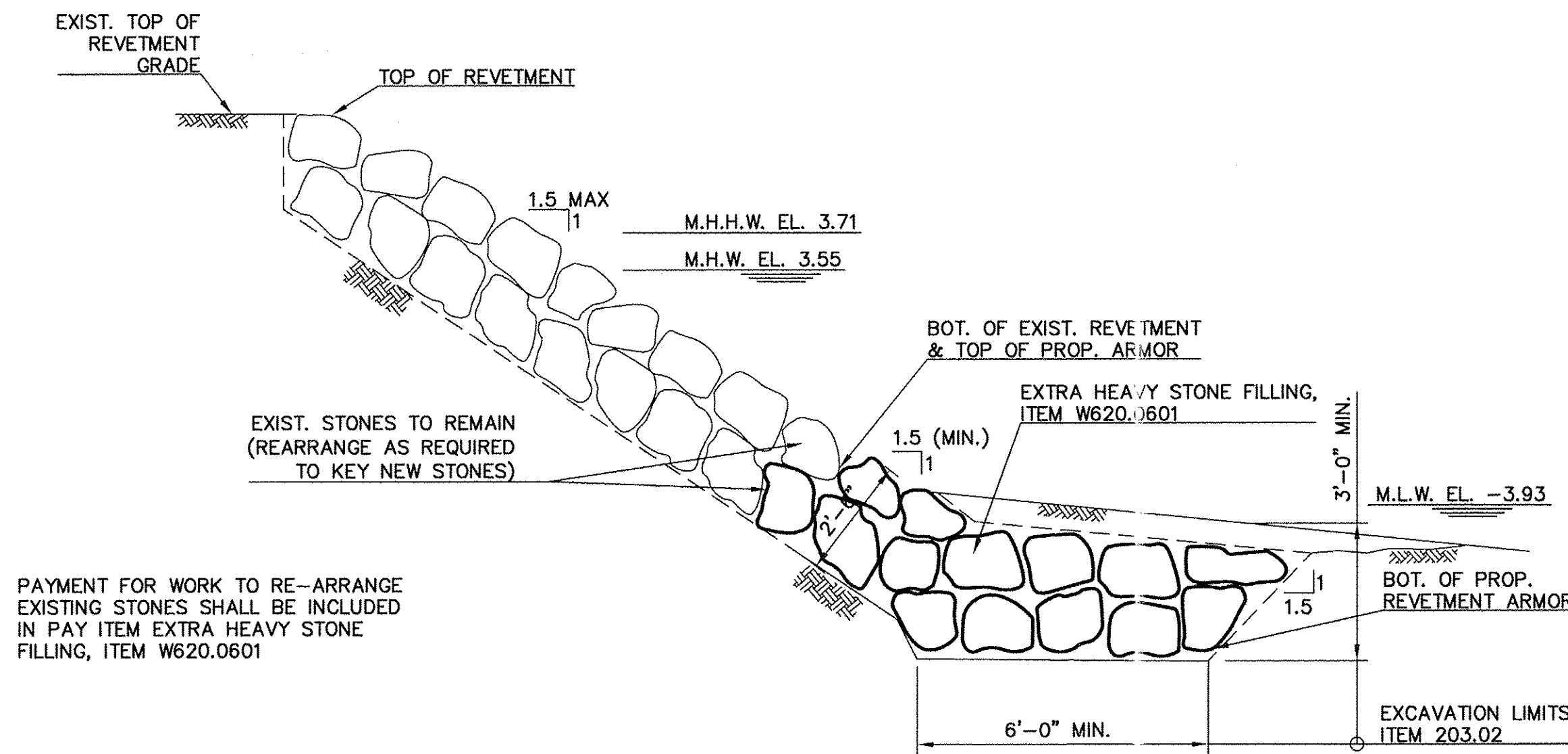
1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR LOCATIONS OF TYPICAL SECTION L-L, SEE SHEETS 20, 21, & 22.
3. FOR LOCATIONS OF TYPICAL SECTION M-M, SEE SHEETS 21 & 22.
4. FOR LOCATIONS OF TYPICAL SECTION N-N, SEE SHEETS 22 & 23.
5. FOR LOCATIONS OF TYPICAL SECTION P-P, SEE SHEETS 23 & 24.
6. FOR TYPICAL SEAWALL REHABILITATION DETAILS, SEE SHEET 32.



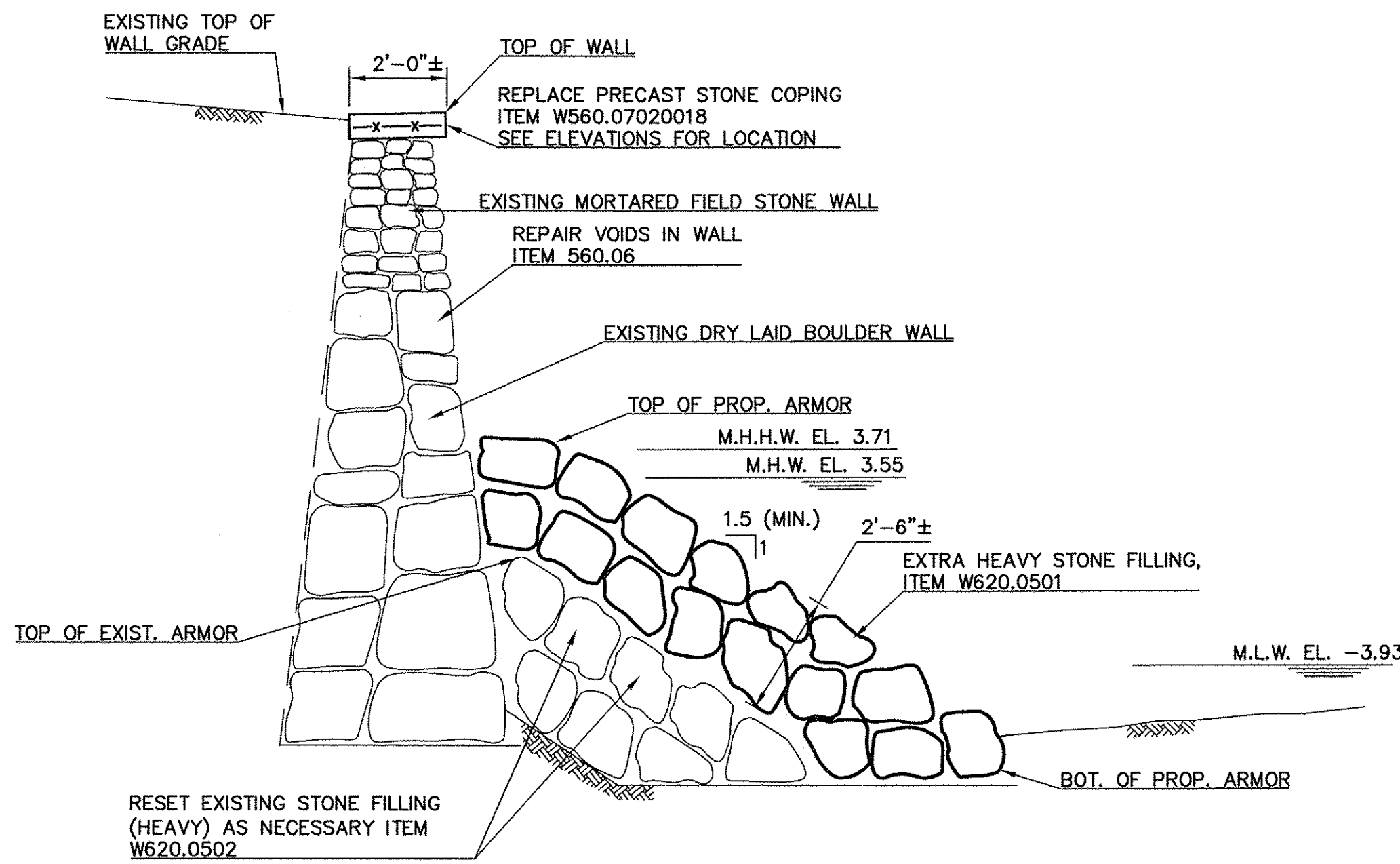
PROPOSED CROSS SECTION L-L
LOCATION 3: STA. 1+80 TO STA. 4+73
& STA. 5+82 TO 7+08
N.T.S.



PROPOSED CROSS SECTION M-M
LOCATION 3: STA. 4+73 TO 5+82
N.T.S.



PROPOSED CROSS SECTION N-N
LOCATION 3: STA. 7+08 TO 8+24
N.T.S.



PROPOSED CROSS SECTION P-P
LOCATION 3: STA. 8+24 TO 10+62
N.T.S.

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IN CHARGE OF J. R. VALENTIN, P.E.
CHECKED BY J. R. VALENTIN, P.E.
MADE BY C. LINO

REVISION	DATE	MADE	APP'D	REVISION

RECORD DRAWING CERTIFICATION

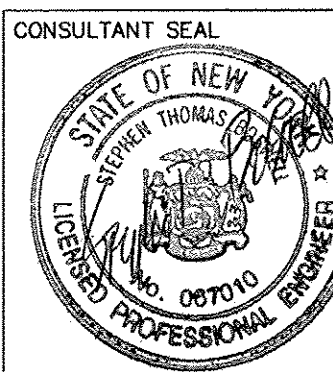
- ☐ AS BUILT - CHANGES AS NOTED
☐ AS BUILT - NO CHANGES

CONTRACTOR

NAME _____
SIGNATURE _____
TITLE _____ DATE _____

PROJECT COORDINATOR

NAME _____
SIGNATURE _____
TITLE _____ DATE _____



CONSULTANT INFORMATION



Boswell ENGINEERING
ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
TEL: (201) 641-0770 • FAX: (201) 641-1831
N.J. CERTIFICATE OF AUTHORIZATION NO. 246A27958000

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

SUPERSTORM SANDY REHABILITATION
GLEN ISLAND PARK SEAWALLS AND PAVILIONS
NEW ROCHELLE, NEW YORK
TYPICAL SEAWALL SECTIONS E-E TO H-H

CONTRACT NUMBER
15-531

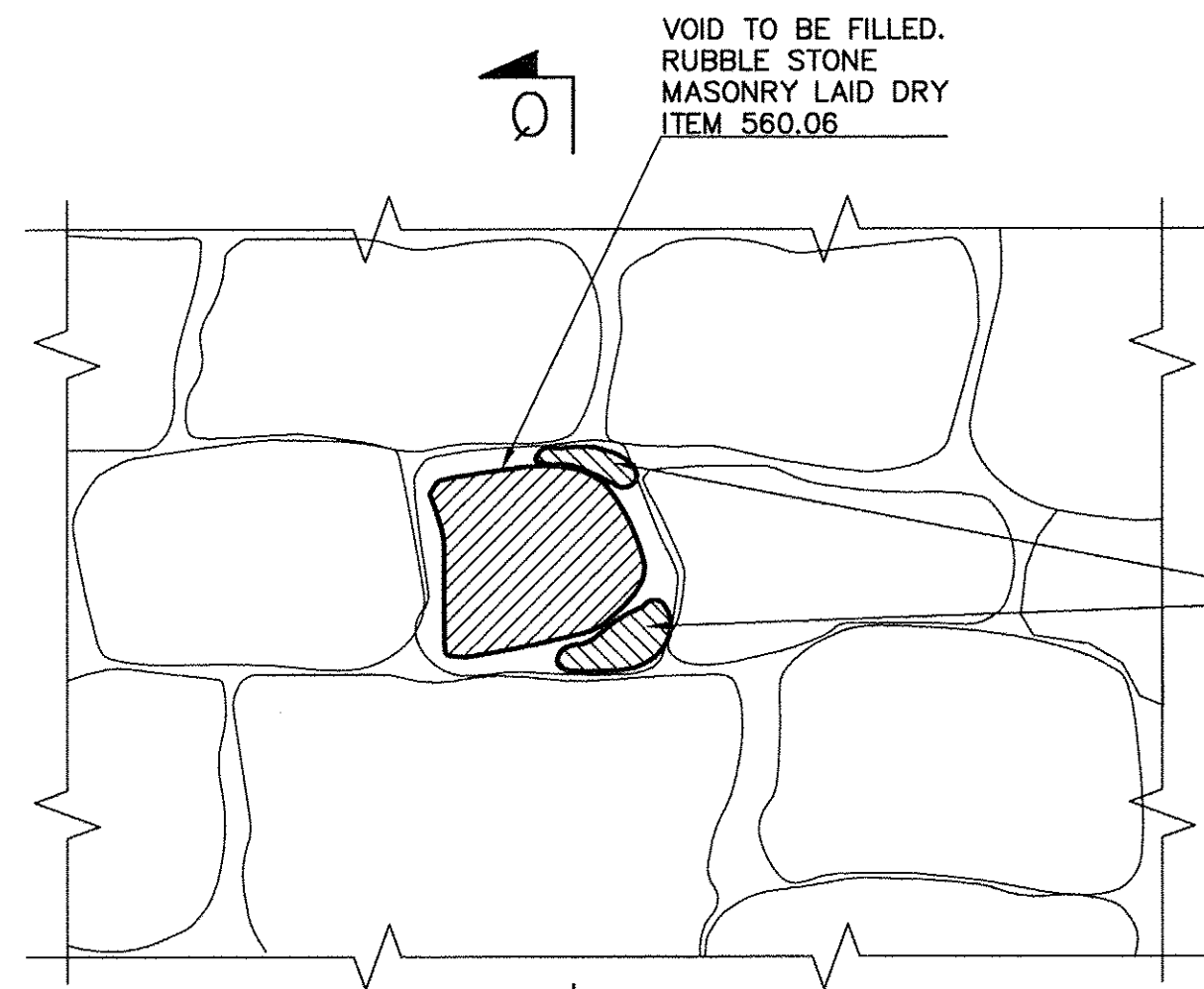
SHEET NUMBER
31

SHEET NO. 31 OF 34

SCALE: AS NOTED
DATE: MAY 2018
DPW FILE NO.
5-18-G-129
REV. NO.
0

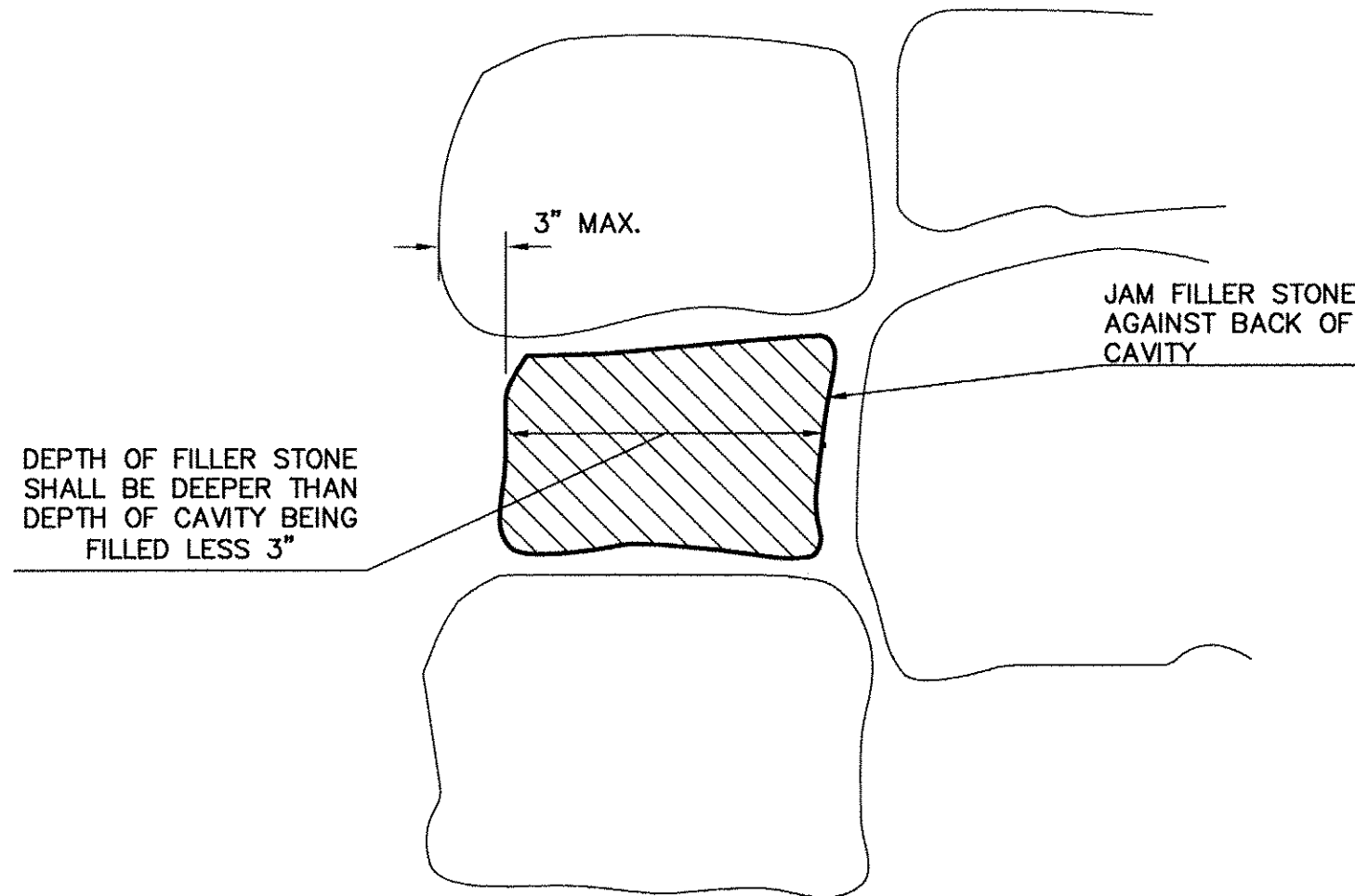
NOTES

1. FOR GENERAL NOTES, SEE SHEET 2.

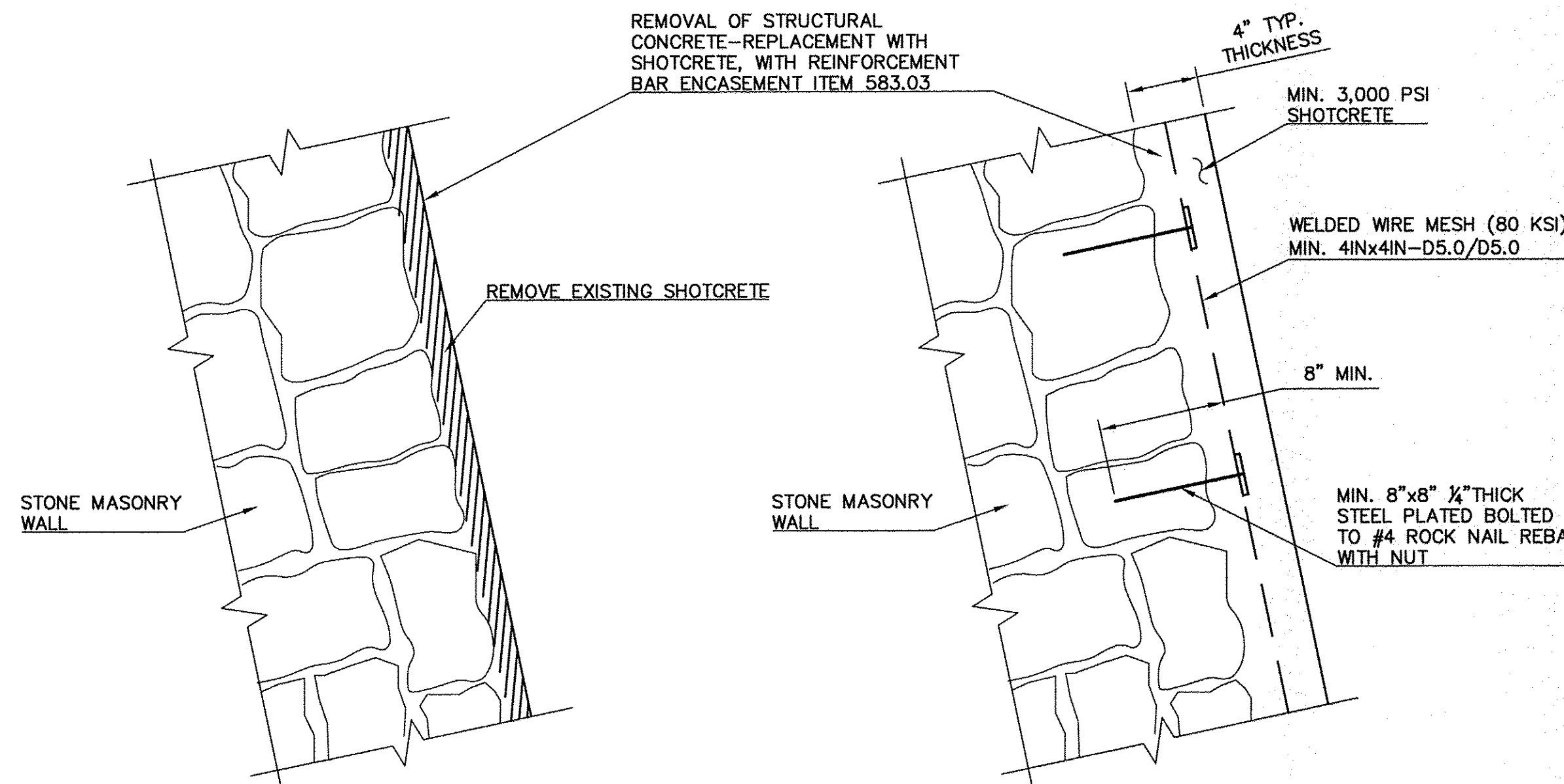


DRY LAID BOULDER WALL VOID REPAIR DETAIL
(ITEM 560.06)
N.T.S.

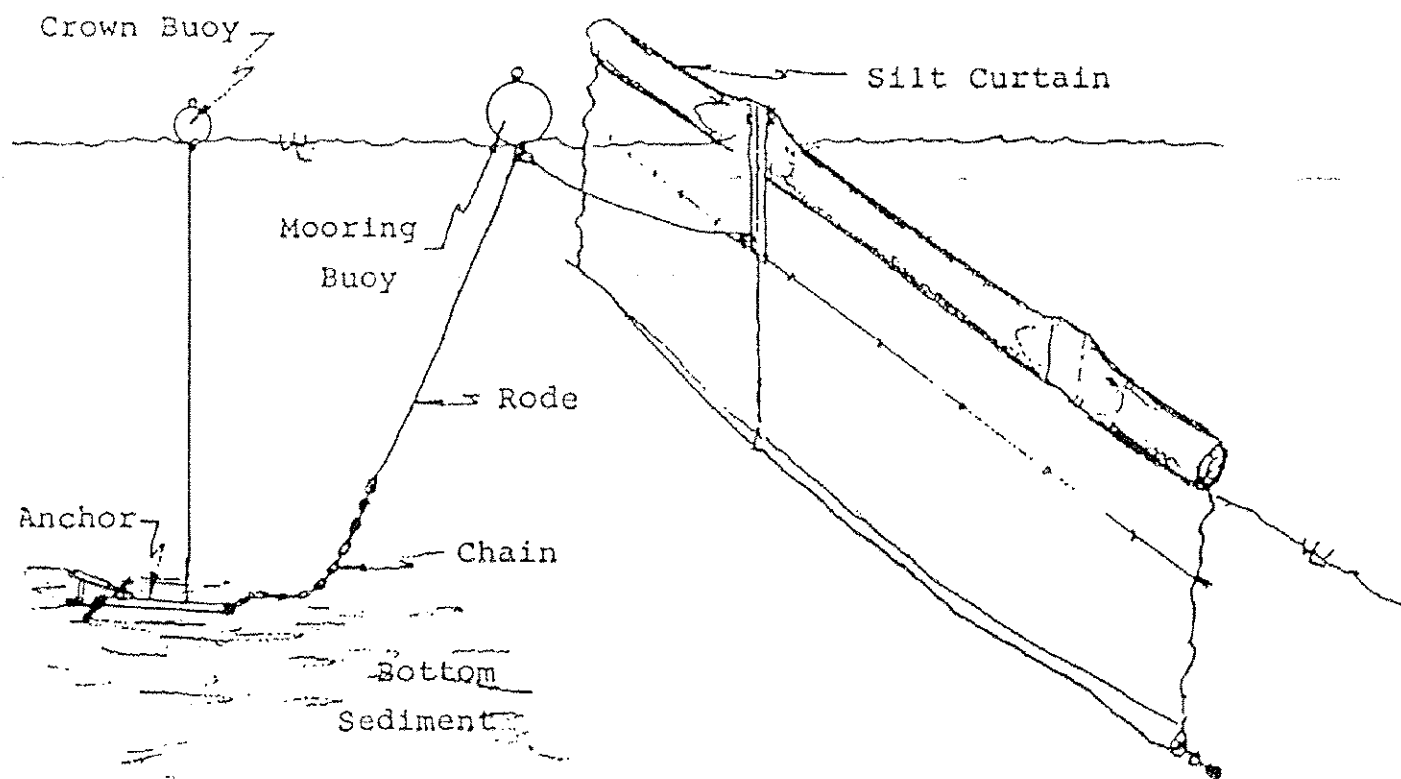
1. CONTRACTOR TO FURNISH STONES SHOWN SHADED
2. PLACE LARGE STONES FILLING MOST OF EXIST. GAP (80% TO 90% IN HEIGHT AND WIDTH)
3. USE SMALLER STONES TO WEDGE LARGE STONES TIGHTLY IN PLACE



SECTION Q-Q
N.T.S.

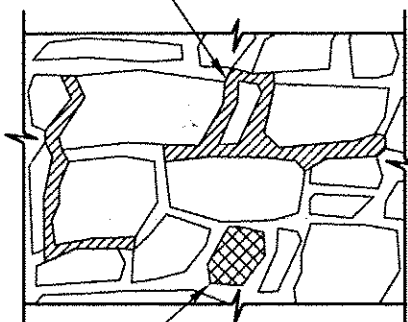


SHOTCRETE REPLACEMENT DETAIL
(ITEM 583.03)
N.T.S.

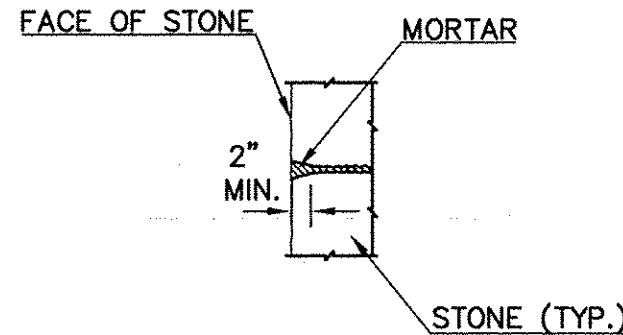


SILT CURTAIN DETAIL
N.T.S.

DETERIORATED MORTAR JOINT
TO BE REPOINTED (TYP.)
(SEE NOTE 34 ON SHT. 2)

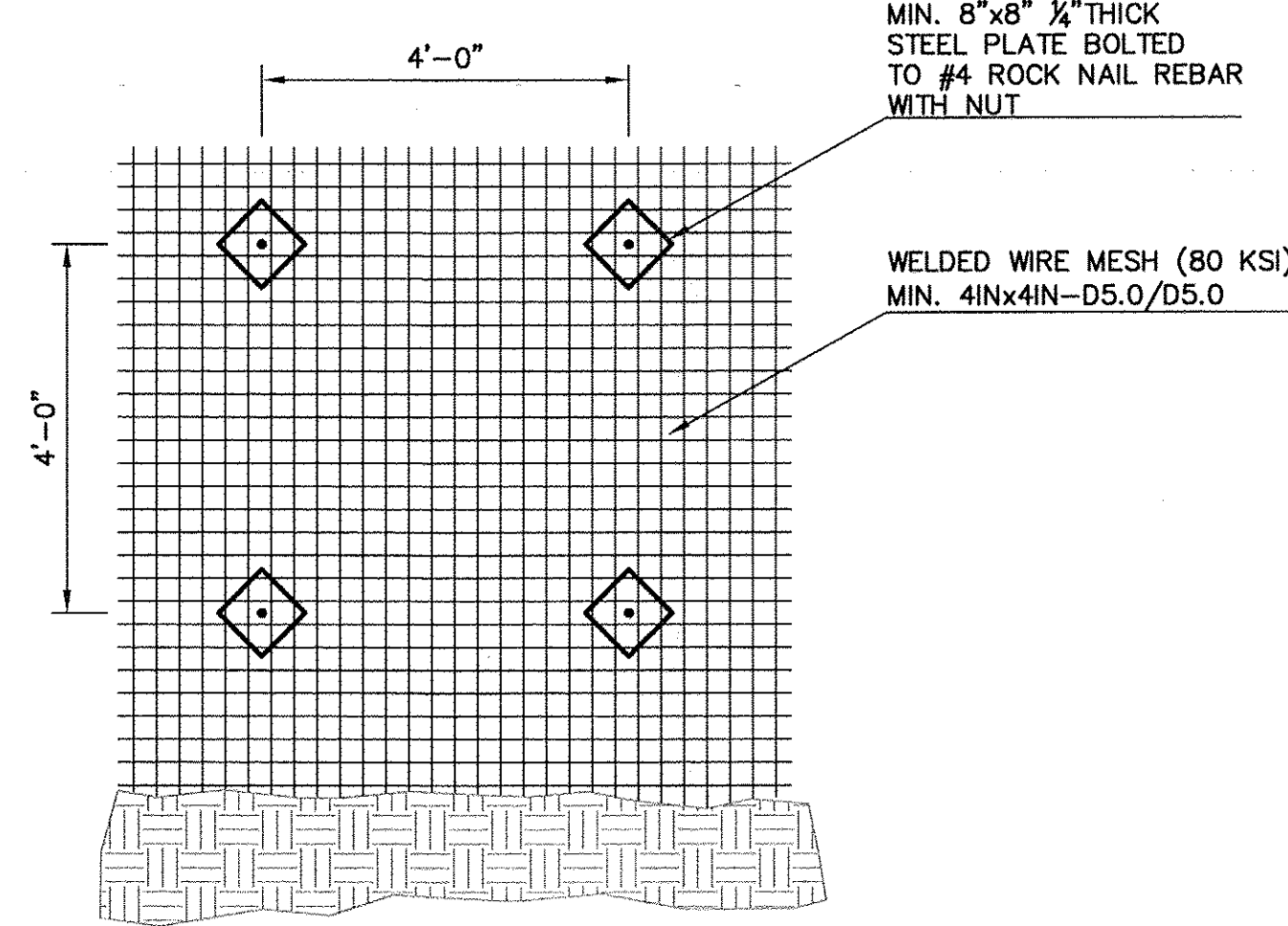


ELEVATION



SECTION

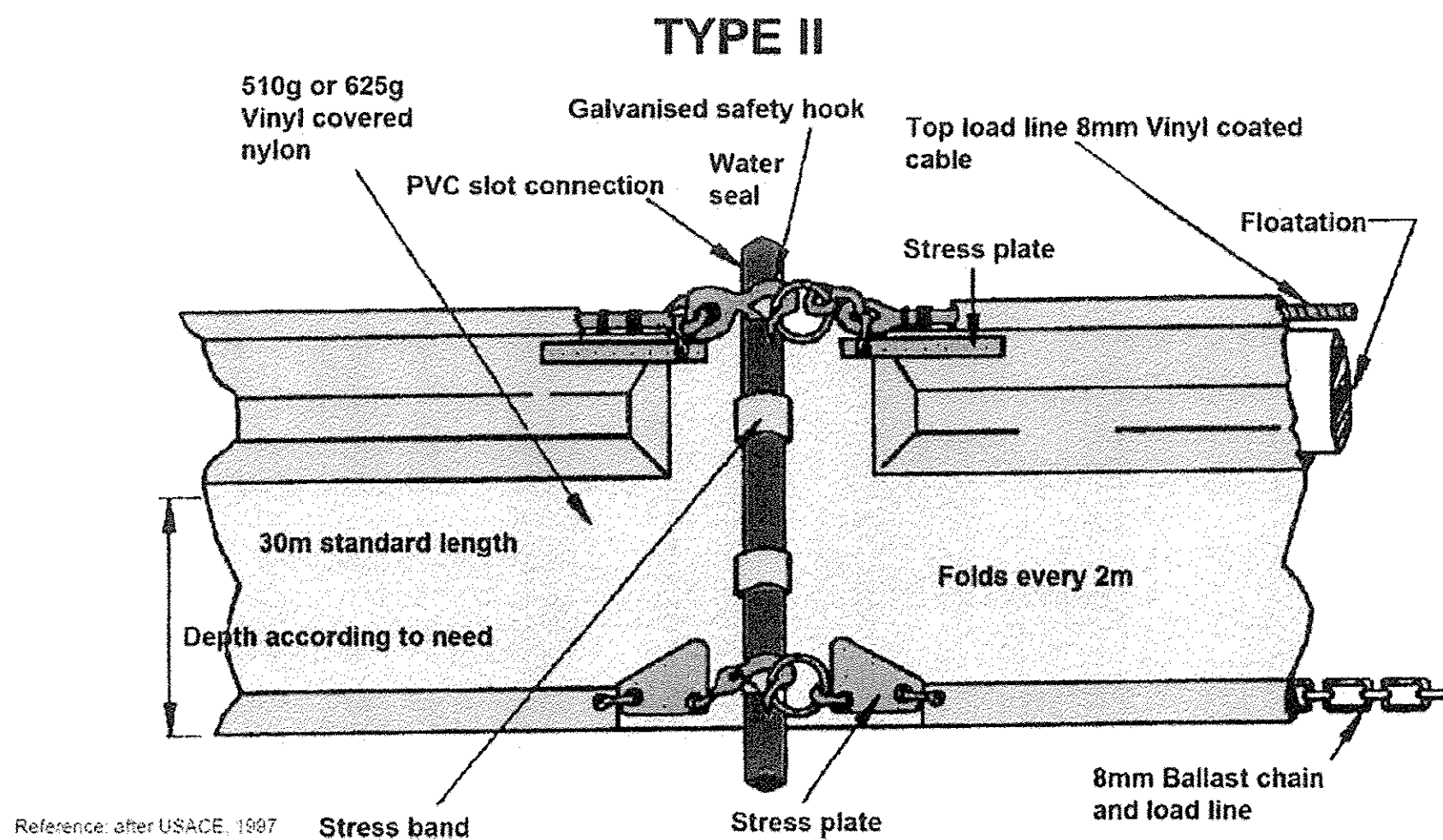
FIELD STONE MASONRY REPAIR
(ITEM 560.05)
N.T.S.



MESH INSTALLATION ELEVATION
(ITEM 583.03)
N.T.S.

FLEXIBLE CHECK VALVE:

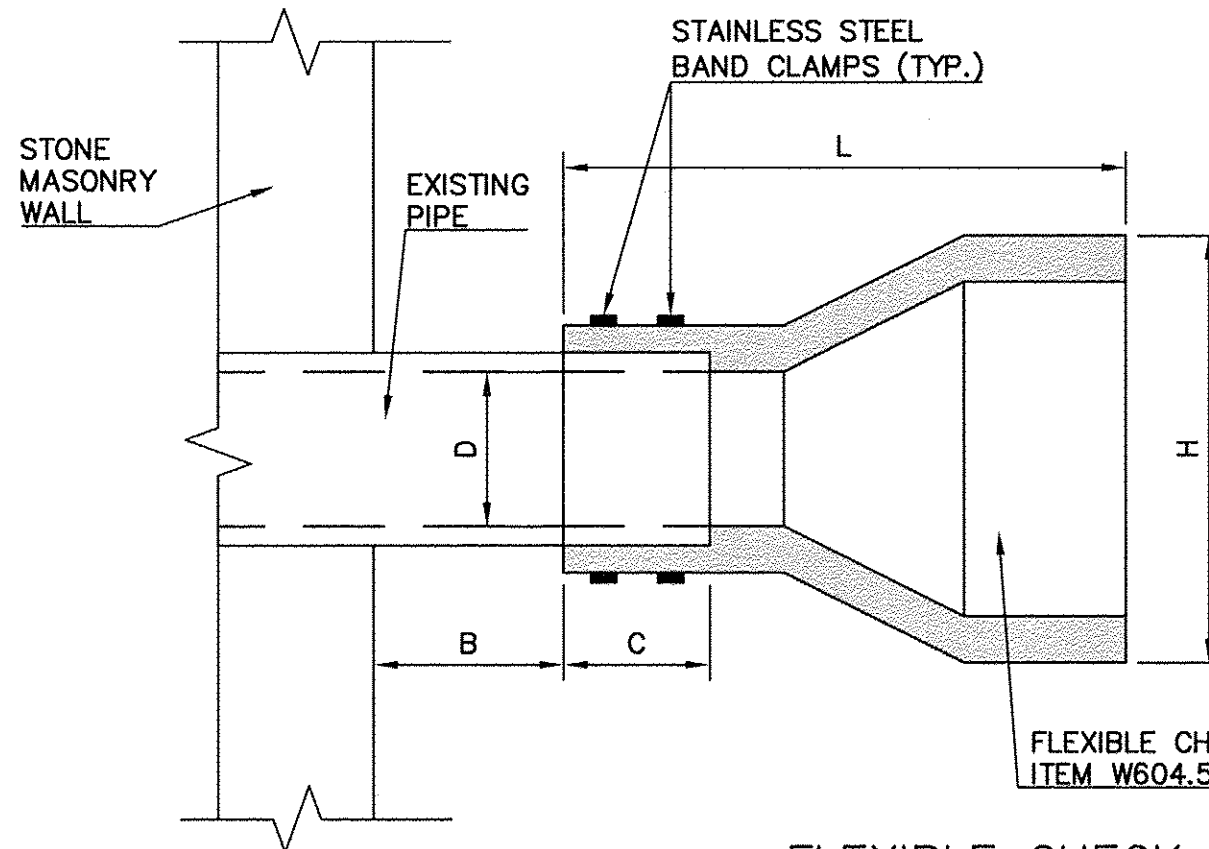
1. ALL CHECK VALVES SHALL BE A SERIES TF-2 TIDFLEX CHECK VALVE AS MANUFACTURED BY RED VALVE COMPANY, INC., OR APPROVED EQUAL.
2. THE PIPE SIZE INDICATED IN THE PLAN SET IS THE INSIDE DIAMETER (I.D.). THE CHECK VALVE SHALL BE SIZED TO FIT THE OUTSIDE DIAMETER (O.D.) OF THE PIPES.
3. PRIOR TO FABRICATION, FIELD MEASUREMENTS SHALL BE TAKEN BY THE CONTRACTOR OR MANUFACTURES REPRESENTATIVE OF THE OUTSIDE DIAMETER OF THE EXISTING OR NEW PIPE TO ASSURE PROPER FIT.
4. THE CHECK VALVES SHALL BE SLID ONTO THE PIPE AND FASTENED WITH STAINLESS STEEL BAND CLAMPS.
5. IF THE EXISTING PIPE IS BROKEN, THE PIPE SHALL BE REPAIRED BY THE CONTRACTOR. REPAIR DETAILS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE WORK BEING PERFORMED. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING A FIELD INSPECTION TO MAKE NOTE OF THE EXISTING PIPE CONDITIONS PRIOR TO FABRICATION. THE COST TO REPAIR BROKEN PIPES SHALL BE INCLUDED IN THE PRICE BID FOR "FLEXIBLE CHECK VALVE".



Reference: after USACE, 1997

Type II -- Suited to sites where there is only a small to moderate current of up to about 1 m/s. Wind and wave action can be present but not considered major force.

SILT CURTAIN DETAIL
(ITEM 209.13)
N.T.S.



FLEXIBLE CHECK VALVE DETAIL
N.T.S.

FLEXIBLE CHECK VALVE SIZES				
PIPE I.D. (D)	STUB LENGTH (B)	CUFF LENGTH (C)	BILL HEIGHT (H)	LENGTH (L)
6"	1"	2"	11"	16"
8"	1"	2"	13"	17"
12"	1"	4"	21"	27"
18"	2"	6"	27"	30"

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IN CHARGE OF J. R. VALENTIN, P.E.
CHECKED BY J. R. VALENTIN, P.E.
MADE BY C. LINO

REVISION	DATE	MADE	APP'D	REVISION

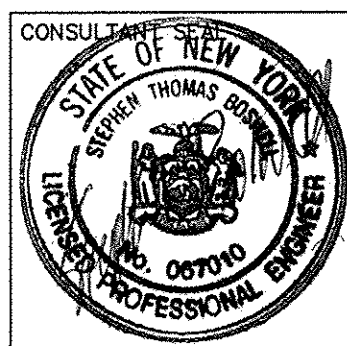
RECORD DRAWING CERTIFICATION

- ☐ AS BUILT - CHANGES AS NOTED
☐ AS BUILT - NO CHANGES

CONTRACTOR
NAME _____
SIGNATURE _____
TITLE _____ DATE _____

PROJECT COORDINATOR

NAME _____
SIGNATURE _____
TITLE _____ DATE _____



CONSULTANT INFORMATION

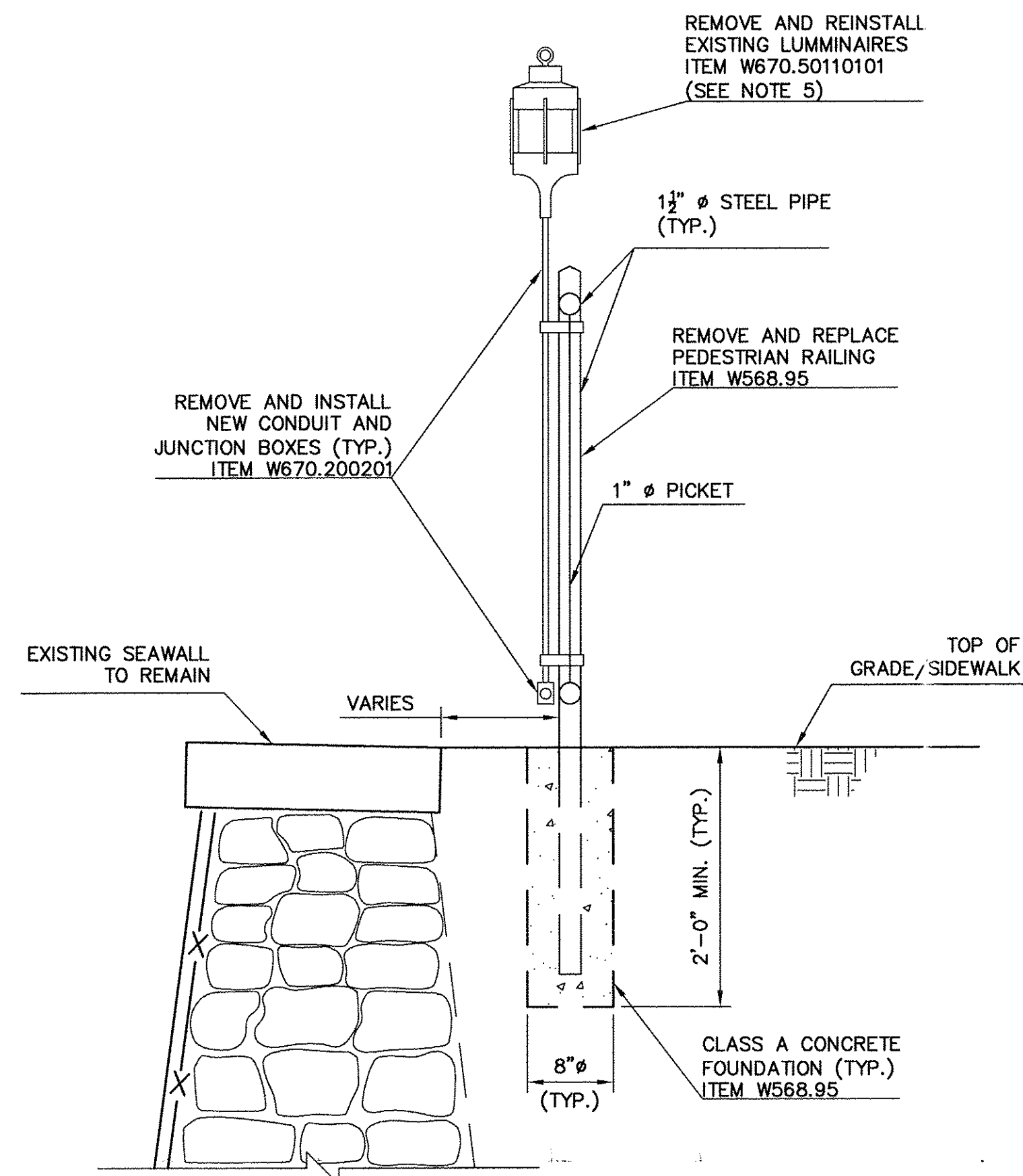


Boswell ENGINEERING
ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
TEL: (201) 641-0770 • FAX: (201) 641-1831
N.J. CERTIFICATE OF AUTHORIZATION NO. 246A27958000

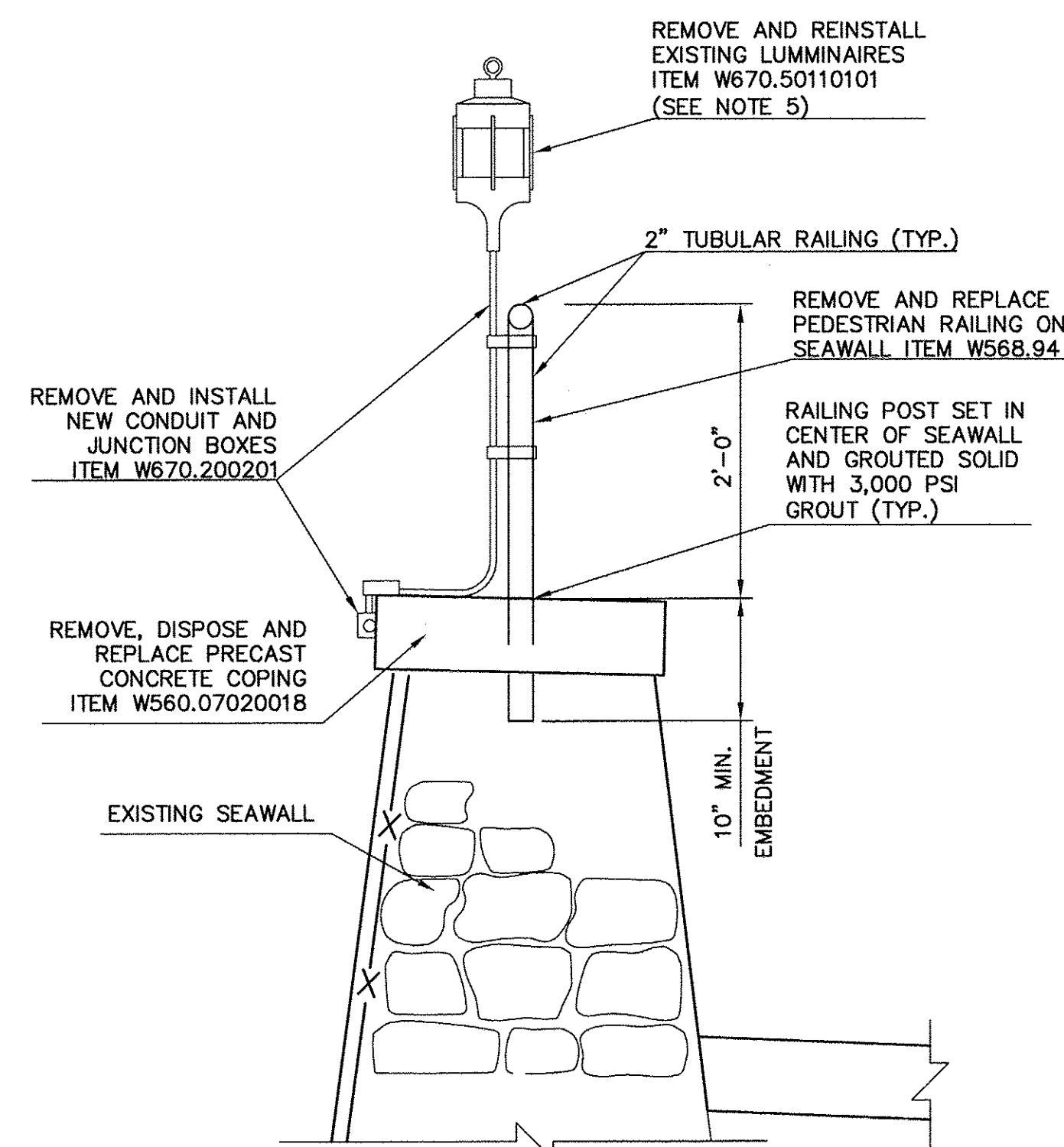
WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

SUPERSTORM SANDY REHABILITATION
GLEN ISLAND PARK SEAWALLS AND PAVILIONS
NEW ROCHELLE, NEW YORK
SEAWALL TYPICAL REPAIR DETAILS

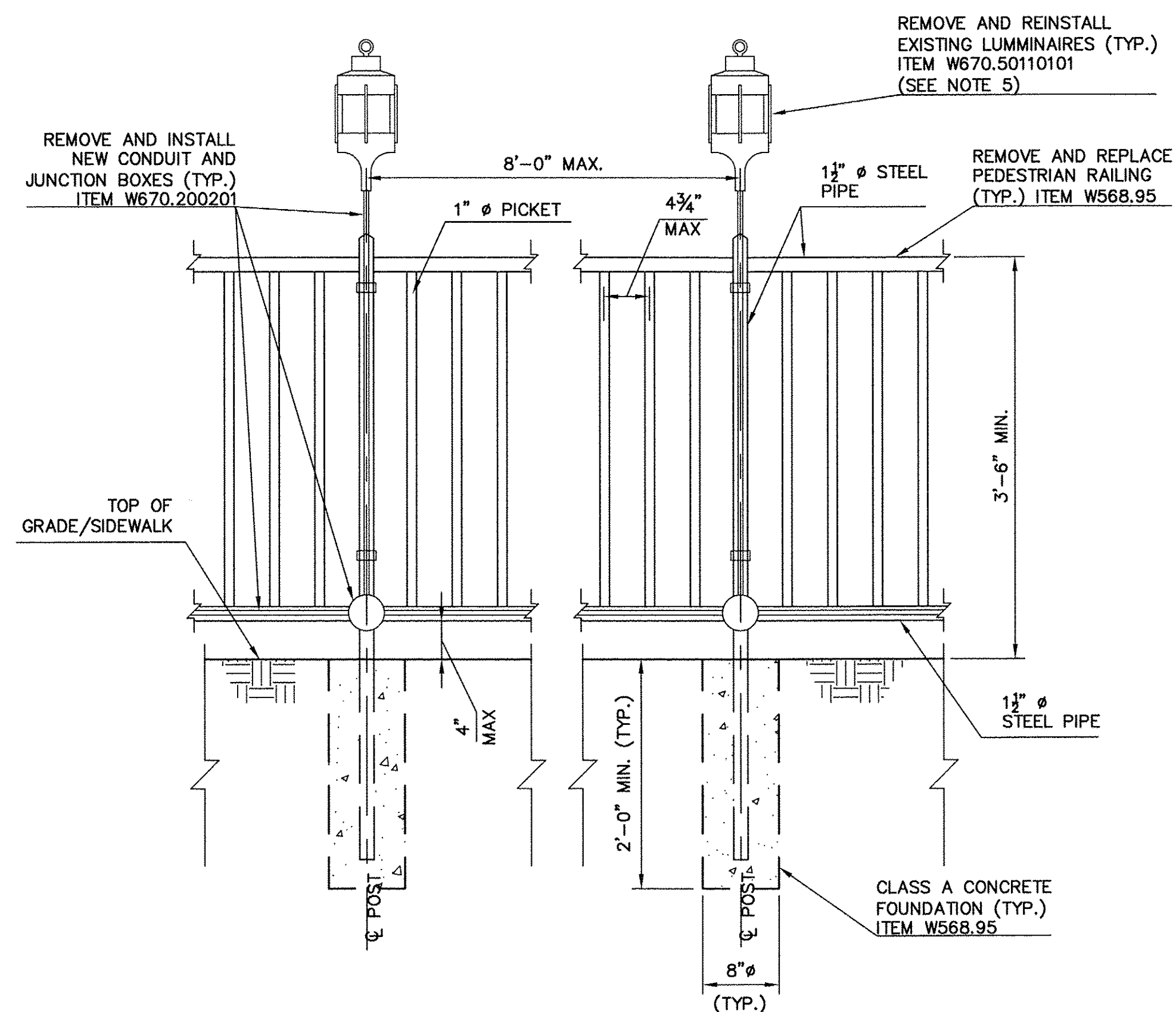
CONTRACT NUMBER	SHEET NUMBER
15-531	32
SHEET NO. 32 OF 34	
SCALE: AS NOTED	
DATE: MAY 2018	
DPW FILE NO.	REV. NO.
5-18-G-130	0



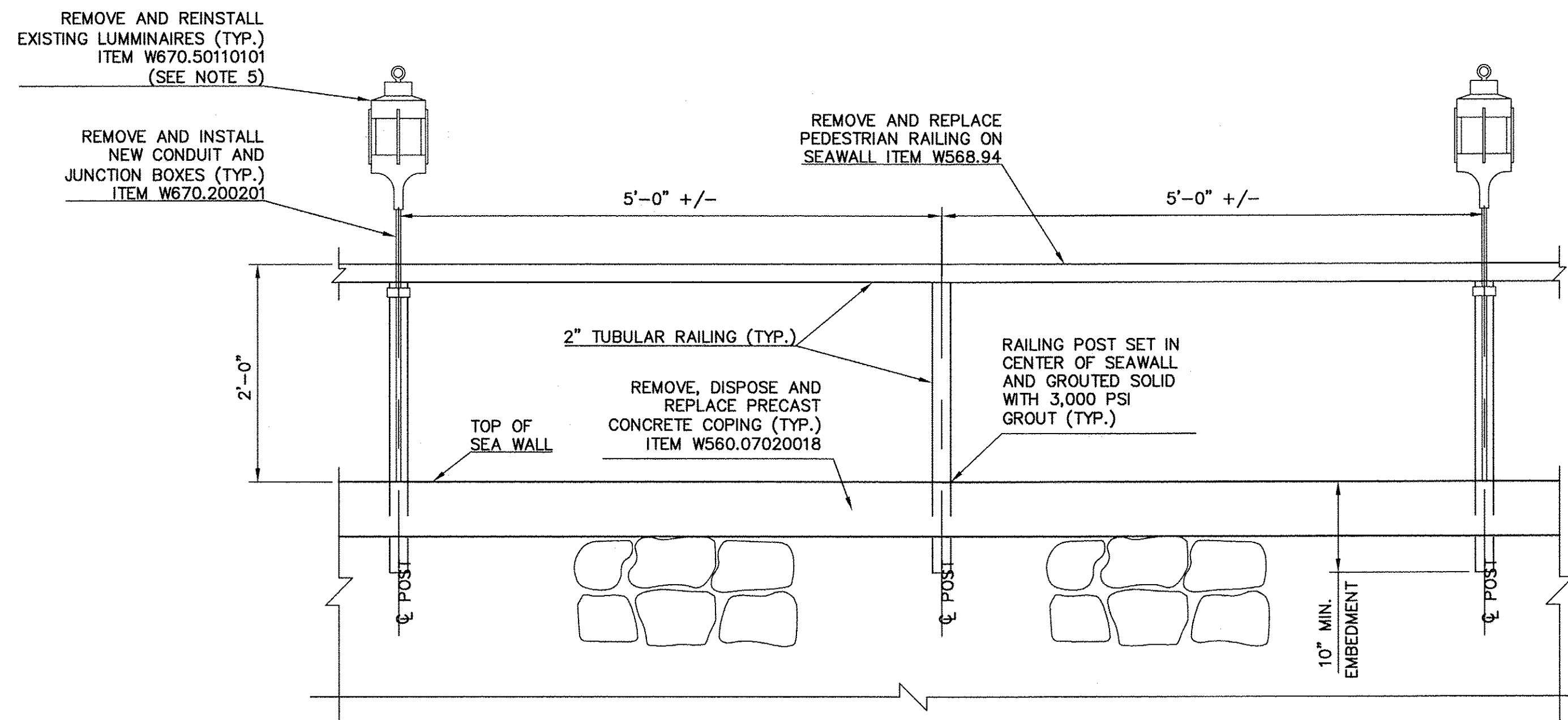
PROPOSED PEDESTRIAN RAILING BEHIND SEAWALL
SECTION
SCALE 1"=1'-0"



PROPOSED PEDESTRIAN RAILING ON SEAWALL
SECTION
SCALE 1"=1'-0"



PROPOSED PEDESTRIAN RAILING BEHIND SEAWALL
ELEVATION
SCALE 1"=1'-0"



PROPOSED PEDESTRIAN RAILING ON SEAWALL
ELEVATION
SCALE 1"=1'-0"

NOTES



- FOR GENERAL NOTES, SEE SHEET 2.
- PEDESTRIAN RAILING ON SEAWALL LOCATED IN LOCATION 2-1, STA. 3+13 TO STA. 7+33 (SECTION H-H).
- PEDESTRIAN RAILING LOCATED IN LOCATION 2-2, STA. 0+00 TO STA. 1+52 (SECTION J-J), AND IN LOCATION 3, STA. 0+00 TO STA. 1+80 (SECTION K-K).
- PROPOSED PEDESTRIAN RAILING ON SEAWALL SHALL BE 2" O.D. SCHEDULE 40 GALVANIZED STEEL PIPE TO MATCH EXISTING.
- PROPOSED PEDESTRIAN RAILING SHALL BE "OCEANSIDE ALUMINUM ORNAMENTAL PICKET" AS MANUFACTURED BY WALPOLE OUTDOORS OR APPROVED EQUAL. FINISH TO BE POWDER COATED OF COLOR TO BE APPROVED BY THE OWNER.
- PRIOR TO ANY WORK THE CONTRACTOR SHALL PERFORM A SURVEY OF THE EXISTING LUMINAIRES AND DOCUMENT WHETHER EACH IS IN WORKING ORDER AND ITS PHYSICAL CONDITION. THIS SURVEY SHALL BE SUBMITTED TO THE ENGINEER FOR THE RECORD. ANY LUMINAIRE THAT IS DAMAGED SUBSEQUENTLY SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING LUMINAIRES AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE OF ORIGIN/JUNCTION BOX.
- EXTERIOR JUNCTION BOXES SHALL BE UV RATED POLYVINYL CHLORIDE (PVC) WEATHERPROOF AND NON-METALLIC. BOXES SHALL BE EQUIPPED WITH THREADED CONDUIT HUBS AND GASKETED CORROSION RESISTANT WEATHERPROOF COVERS. ALL FASTENERS SHALL BE CORROSION RESISTANT.
- CONDUIT SHALL BE SCHEDULE 80 NON-METALLIC UV RATED PVC, ELECTRICAL GRADE, CONFORMING TO NEMA STANDARDS PUB. TC-2. FITTINGS SHALL MATCH CONDUIT MATERIAL AND WALL THICKNESS, AND SHALL BE SOLVENT WELD TYPE. PREFABRICATED ELBOWS SHALL BE STANDARD RADIUS FOR SIZES 1 1/2" AND SMALLER, AND LONG RADIUS FOR SIZES 2" AND LARGER.
- ALL WIRE SHALL BE COPPER CONDUCTOR WITH 600V TYPE THHN/THWN OR XHHW INSULATION RATED 90 DEG. C. CONDUCTOR SHALL BE SOLID FOR SIZES #10AWG AND SMALLER. MINIMUM WIRE SIZE SHALL BE #12AWG.

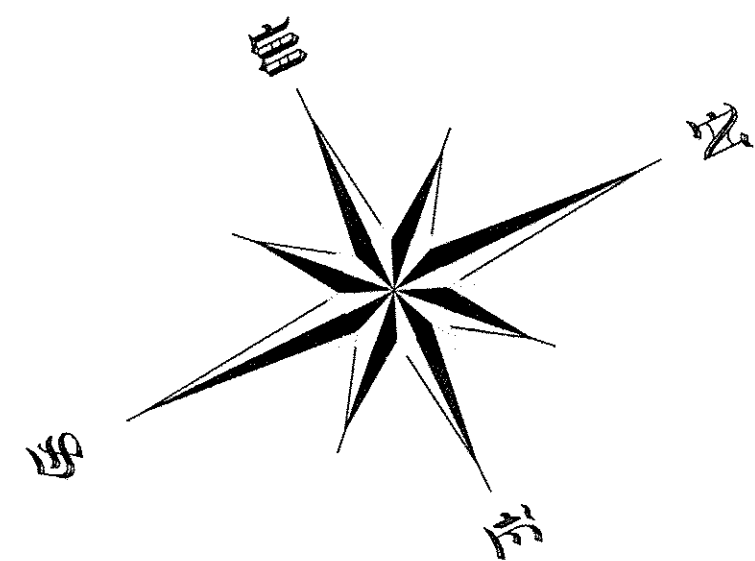
UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF J. R. VALENTIN, P.E.
CHECKED BY J. R. VALENTIN, P.E.
MADE BY C. LINO

REVISION	DATE	MADE	APP'D

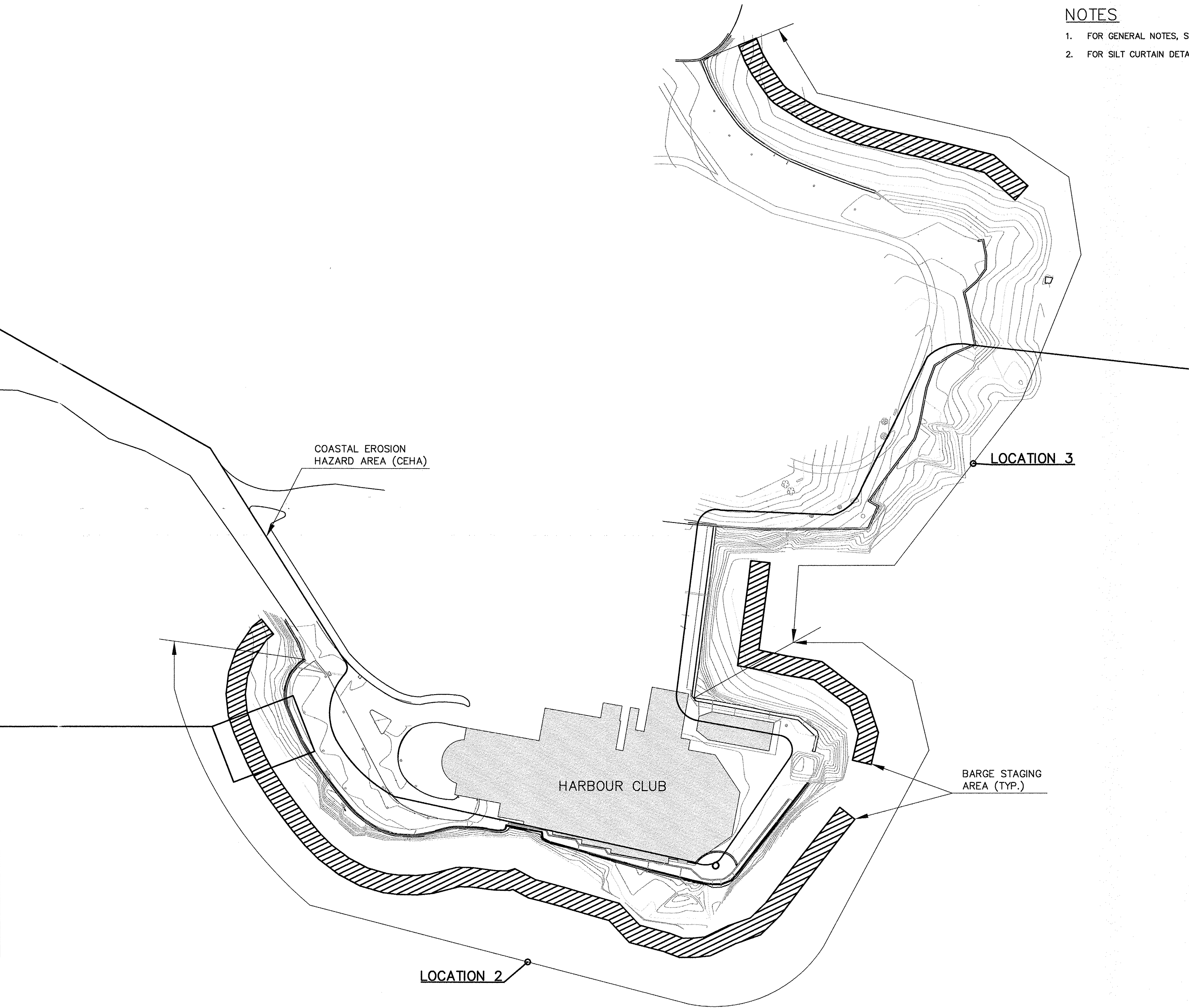
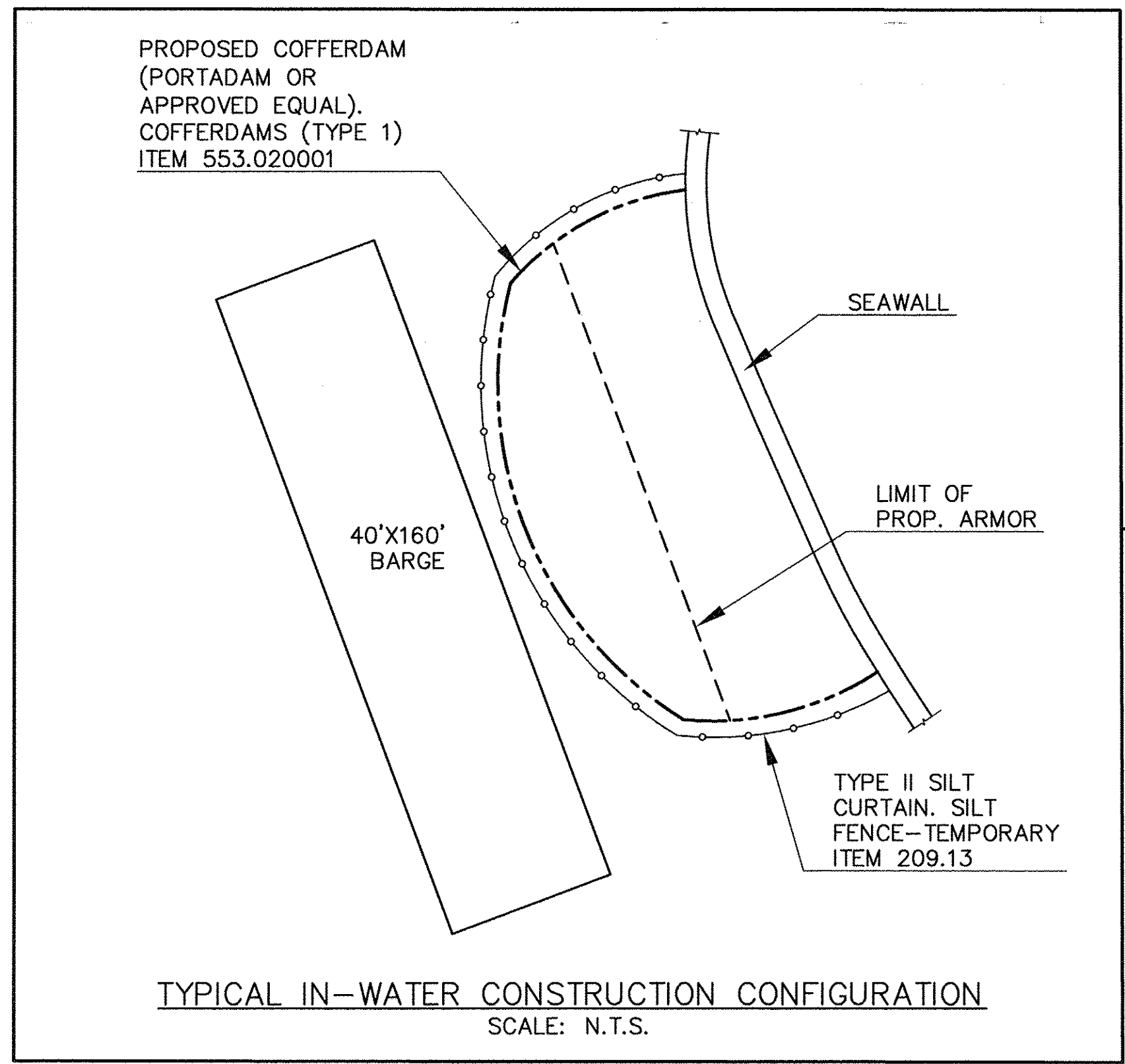
RECORD DRAWING CERTIFICATION			
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES			
CONTRACTOR		PROJECT COORDINATOR	
NAME		NAME	
SIGNATURE		SIGNATURE	
TITLE		TITLE	
DATE		DATE	

CONSULTANT SEAL	CONSULTANT INFORMATION	
	 <div>Boswell ENGINEERING</div> <div>ENGINEERS – SURVEYORS – PLANNERS – SCIENTISTS</div> <div>330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606</div> <div>TEL: (201) 641-0770 • FAX: (201) 641-1831</div> <div>N.J. CERTIFICATE OF AUTHORIZATION NO. 24GA27959000</div>	
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING	CONTRACT NUMBER 15-531	SHEET NUMBER 33
	SHEET NO. 33 OF 34	
	SCALE: AS NOTED DATE: MAY 2018	
	DPW FILE NO. 5-18-G-131	REV. NO. 0
	SUPERSTORM SANDY REHABILITATION GLEN ISLAND PARK SEAWALLS AND PAVILIONS NEW ROCHELLE, NEW YORK RAILING DETAILS	



NOTES

1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR SILT CURTAIN DETAILS, SEE SHEET 32.



PARTIAL PLAN
SCALE: N.T.S.

UNAUTHORIZED ALTERATION OF, OR ADDITION TO THIS
PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209.2
OF THE NEW YORK STATE EDUCATION LAW.

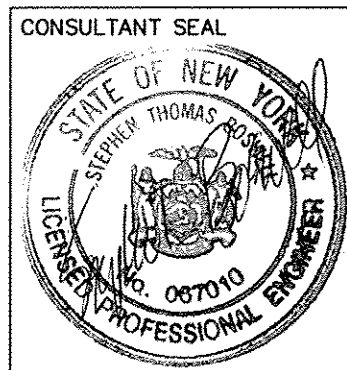
IN CHARGE OF J. R. VALENTIN, P.E.
CHECKED BY J. R. VALENTIN, P.E.
MADE BY C. LINO

REVISION	DATE	MADE	APP'D	REVISION

RECORD DRAWING CERTIFICATION

- ☐ AS BUILT - CHANGES AS NOTED
☐ AS BUILT - NO CHANGES

CONTRACTOR		PROJECT COORDINATOR	
NAME		NAME	
SIGNATURE		SIGNATURE	
TITLE		TITLE	
DATE		DATE	



CONSULTANT INFORMATION

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WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

SUPERSTORM SANDY REHABILITATION
GLEN ISLAND PARK SEAWALLS AND PAVILIONS
NEW ROCHELLE, NEW YORK
STAGING PLAN

CONTRACT NUMBER	SHEET NUMBER
15-531	34
SHEET NO. 34 OF 34	
SCALE: AS NOTED DATE: MAY 2018	
DPW FILE NO. 5-18-G-132	REV. NO. 0