

ADDENDUM NO. 3

REPLACEMENT OF THAMES STREET WALL AT ELECTRIC BOAT GROTON, CT

MMI #2536-13
December 6, 2019

▪ **Response to Questions**

Q1: What is the required depth of the special rip rap?

R1: The depth of special riprap shall be +/- 12 inches.

Q2: What are the pay limits for Item #214000 "Compacted Gravel Fill"?

R2: The item is for contractor to bring up grade under the footings of embankment wall necessary to maintain the bottom of wall shown on the elevation view on sheet STR-01.

Also the item is for slope where grade under the "Special Riprap" and "3" Crushed Stone" requires additional fill. See sheets XSC-01 to XSC-04.

Q3: What are the pay limits for Item #708001 "Dampproofing"?

R3: The pay limits for dampproofing is top of L-Shaped concrete heel and 3" below the concrete stem under bituminous sidewalk.

Q4: What are the pay limits for Item #728014 "3/4 Inch Crushed Stone"?

R4: See "Modular Block Un-Reinforced Wall Section" on sheet STR-02, the 3/4" crushed stone shall be the crushed stone levelling pad and drainage aggregate behind the blocks.

Q5: What are the pay limits for Item #728016 "3 Inch Crushed Stone"?

R5: See sheet STR-01 on bottom left hand corner under Legend the hatched area is the limits for 3" Crushed Stone.

Q6: What are the pay limits for Item #944001 "Furnishing and Placing Topsoil"?

R6: The disturbed areas between +/- station 14+30 (Proposed EB Security Fence on the slope) to the edge of 3" Crushed stone and as well on the southeast end of wall between

+/- station 12+20 (Proposed EB Security Fence on the slope) to the edge of 3" Crushed stone.

Q7: What are the pay limits for Item #950005 "Turf Establishment"?

R7: See response to question 6.

Q8: Is bid item #219002 intended for sedimentation control at catch basins? If so, should the units be "each"?

R8: The bid item has been changed to "Sedimentation Control at Catch Basins" Item No. 0219011A, item will be paid under "Each".

Q9: Special provision Item #219011A – Sedimentation Control at Catch Basin" has no corresponding bid item. Please advise.

R9: See question 8.

Q10: Is the excavation for the embankment wall to be paid under Item #601445 "Embankment Wall (Site No. 1)" or Item #203000 "Structure Excavation – Earth (Complete)"?

R10: Paid under Item No. 023000 "Structure Excavation – Earth (Complete)".

Q11: Backfill of the retaining wall is incidental to Item #601445 "Embankment Wall (Site No. 1)" per the specification. Where is Item #216000 "Pervious Structure Backfill" to be used?

R11: Pervious Structure Backfill was initially paid separately, but it was updated to be paid for under the item Embankment Wall, therefore Pervious Structure Backfill item has been removed from the bid schedule.

Q12: The borings on sheet 2 do not indicate that there is concrete pavement under the roadway. Where does Item #202502 "Removal of Concrete Pavement" apply?

R12: The "Removal of Concrete Pavement" item is the roadway blacktop and sidewalk area between the sawcut line and existing stone wall.

Q13: The typical roadway reconstruction section on sheet 2 shows 3" of Class 4 asphalt. There is no such pay item. Please advise.

R13: The typical roadway section should call for "Bituminous Concrete – Class 2.

Q14: Please confirm that permanent materials are exempt from CT sales tax.

R14: Yes any permanent materials are exempt from CT sales tax since the City of Groton is.

Q15: Please provide the special provision for Item #601201A – Class “F” Concrete.

R15: The “A” has been removed from the item number, shall be standard item per form 817.

Q16: Please provide the special provision for Item #905018A – Rebuild Stone Wall.

R16: A detail has been provided on sheet STR-02. The “A” has been removed from the item number.

Q17: Are municipal police officers required while traffic is detoured? If so, what is the Contractor’s responsibility and how will payment be handled?

R17: No municipal officers will not be required while traffic is being detoured.

Q18: Road reconstruction detail calls out 3” of class 4 mix how is this paid for?

R18: See Response to question 13.

Q19: There is a line item for 17 tons class 2 where is that being used?

R19: See Response to question 13.

Q20: Under special provisions Sedimentation Control at Catch Basins is to be paid for as “Each” but there is no item?

R20: See Response to question 8.

Q21: Please clarify what is to be included in the item for Embankment Wall (Site No.1). There are additional items listed as unit price items that are also included within the Lump Sum item for Embankment Wall (Site No.1). Please Clarify.

R21: The excavation will be paid under item “Structure Excavation – Earth (Complete)”. The Leveling Pad and Drainage aggregate shall be paid under item “3/4” Crushed Stone”. All other items to complete the wall shall be included in the item “Embankment Wall (Site No. 1) i.e. the blocks, installation of blocks, geotextile fabric, pervious structure backfill, labor, and etc.

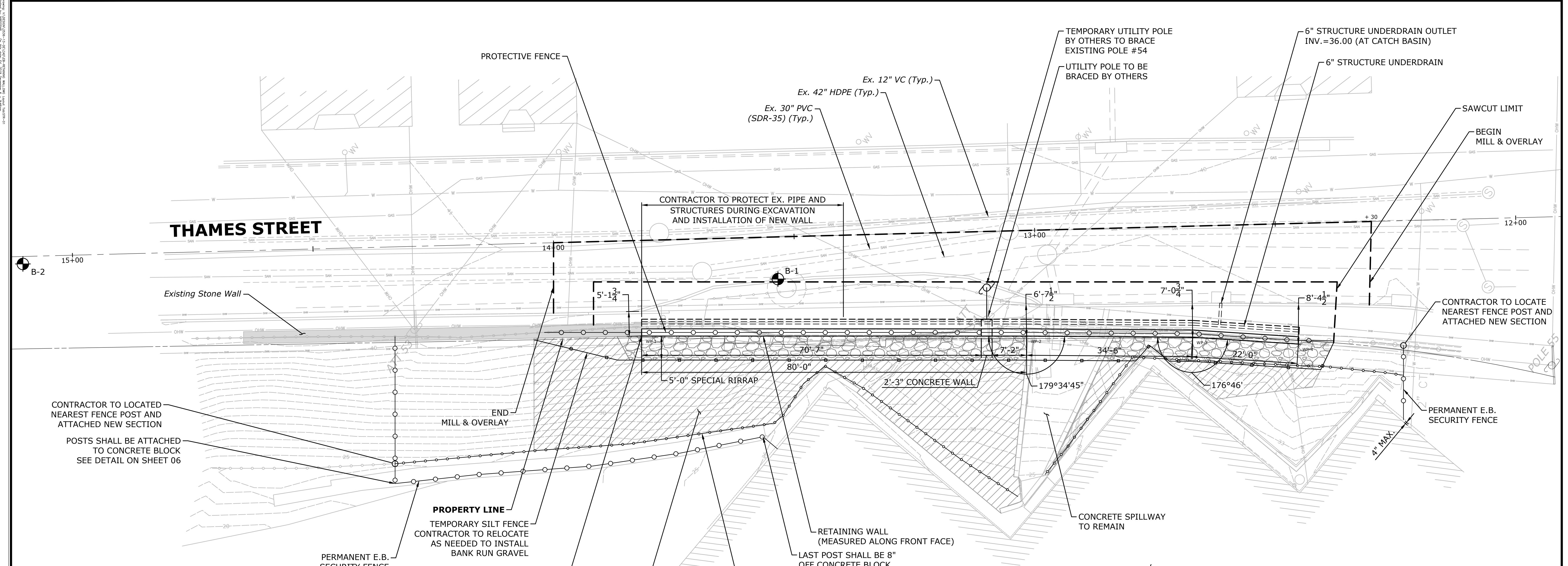
BID SCHEDULE:**BIDDER'S NAME:**

ITEM NO.	ITEM/ DESCRIPTION	UNIT	QTY	UNIT PRICES BID		AMOUNT IN FIGURES
				IN FIGURES	IN WRITING	
0201013	Removal of Existing Fence	LS	1			
0201030A	Clearing and Grubbing (Site No. 1)	LS	1			
0201031A	Clearing and Grubbing (Site No. 2)	LS	1			
0202502	Removal of Concrete Pavement	SY	200			
0202529	Cut Bituminous Concrete Pavement	LF	180			
0203000	Structure Excavation - Earth (Complete)	CY	260			
0203100	Structure Excavation - Rock (Complete)	CY	5			
0209001	Formation of Subgrade	SY	90			
0213050	Bank Run Gravel	CY	30			
0214000	Compacted Gravel Fill	CY	55			
0216011A	Flowable Fill	CY	3			
0219001	Sedimentation Control System	LF	215			
0219011A	Sedimentation Control at Catch Basins	EA	4			

ITEM NO.	ITEM/ DESCRIPTION	UNIT	QTY	UNIT PRICES BID		AMOUNT IN FIGURES
				IN FIGURES	IN WRITING	
0304002	Processed Aggregate Base	CY	15			
0406010-1	Bituminous Concrete - Class 1	Ton	45			
0406010-2	Bituminous Concrete - Class 2	Ton	17			
0406236	Material for Tack Coat	Gal	30			
0406267	Milling of HMA (0"-4")	SY	295			
0601201	Class 'F' Concrete	CY	50			
0601445A	Embankment Wall (Site No. 1)	LS	1			
0602006	Deformed Steel Bars (Epoxy Coated)	LB	5,000			
0703013A	Special Riprap	CY	30			
0708001	Dampproofing	SY	45			
0728014	3/4" Crushed Stone	CY	45			
0728016	3" Crushed Stone	SY	215			
0815001	Bituminous Concrete Lip Curbing	LF	175			
0822001	Temporary Precast Concrete Barrier Curb	LS	1			
0905018	Rebuild Stone Wall	LS	1			

ITEM NO.	ITEM/ DESCRIPTION	UNIT	QTY	UNIT PRICES BID		AMOUNT IN FIGURES
				IN FIGURES	IN WRITING	
0913968A	Protective Fence (8'-0" High)	LF	300			
0922001	Bituminous Concrete Sidewalk	SY	75			
0944001	Furnishing and Placing Topsoil	SY	100			
0950005A	Turf Establishment	SY	100			
0969060A	Construction Field Office, Small	Mo	2			
0971001A	Maintenance & Protection of Traffic	LS	1			
0974001	Removal of Existing Masonry	CY	3			
0975002	Mobilization and Project Closeout	LS	1			
1210101	4" White Epoxy Resin Pavement Markings	LF	400			
1210102	4" Yellow Epoxy Resin Pavement Markings	LF	400			
<u>Total Bid (in words)</u>						
				\$ _____		
				(in Dollars)		

By Submission of this Bid, each bidder certifies that his Bid has been arrived at independently, without consultation, communication, or agreement as to any matter related to this Bid with any other Bidder or with any competitor.



Point #	Raw Description	Northing	Easting
1	WP-1	688478.3958	1184158.8808
2	WP-2	688414.8270	1184207.4504
3	WP-3	688387.2599	1184228.1941
4	WP-4	688368.9633	1184240.4104

* REMOVAL OF DEBRIS & REMNANTS OF EXISTING STONE WALL ON CITY OF GROTON'S RIGHT OF WAY TO BE PAID UNDER "CLEARING AND GRUBBING - SITE NO. 1"

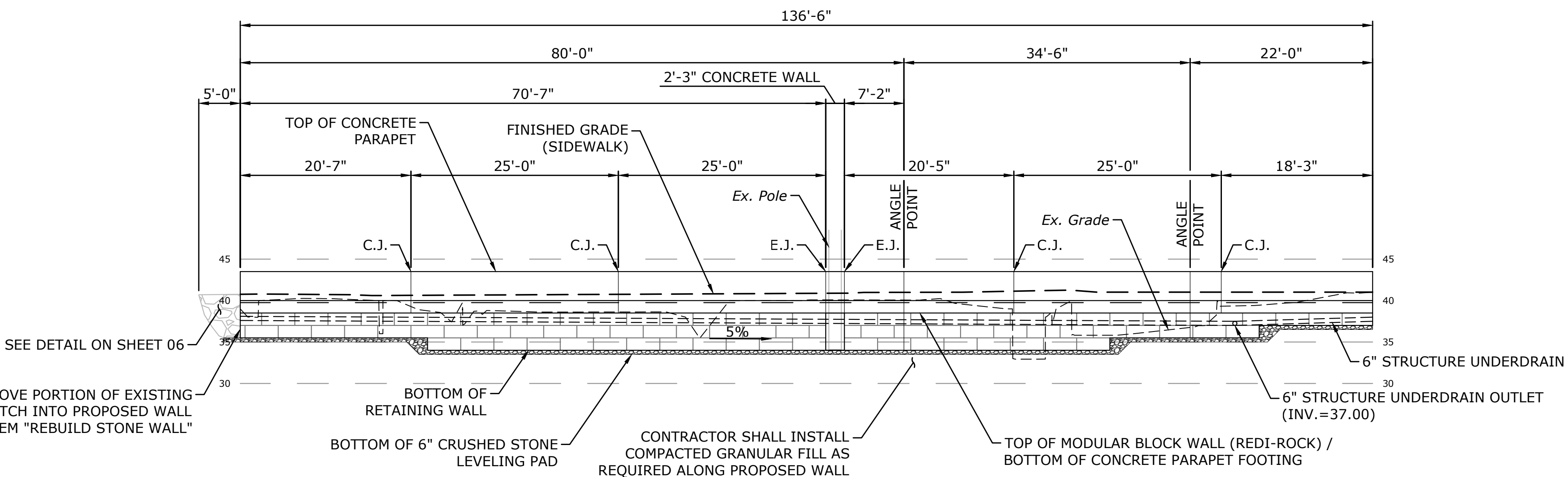
** REMOVAL OF DEBRIS ON ELECTRIC BOAT'S PROPERTY TO BE PAID UNDER "CLEARING AND GRUBBING - SITE NO. 2"

*** DEBRIS WILL CONSIST OF ASPHALT, ROCK, UN-PAINTED CONCRETE AND SOIL. EB WILL SUPPLY CONTAINERS TO DISPOSE OF ROCK > 6", ROCK < 6", CONCRETE, SOIL AND WILL BURDEN THE COST OF DISPOSAL. PLACE DEBRIS INTO CONTAINERS UP TO HALF THE HEIGHT OF CONTAINERS. NOTIFY EB WHEN CONTAINERS ARE TO BE REMOVED AND OR RETURNED.

NOTE
6" STRUCTURE UNDERDRAIN AND 6" STRUCTURE UNDERDRAIN OUTLET PIPE TO BE PAID UNDER ITEM "EMBANKMENT WALL (SITE NO. 1)"

LEGEND	
+ WP #1	WORKING POINT
E.J.	EXPANSION JOINT
C.J.	CONTRACTION JOINT
	REMOVAL OF DEBRIS & PROPOSED 6" LAYER OF 3" CRUSHED STONE

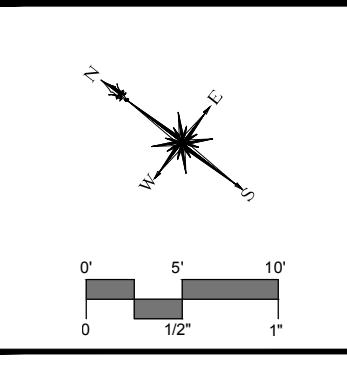
RETAINING WALL - PLAN
SCALE: 1"=10'-0"



RETAINING WALL - ELEVATION
SCALE: 1"=10'-0"

NOTE

- UTILITY POLE #54 SHALL BE HELD IN PLACE BY OTHERS DURING EXCAVATION IN CLOSE PROXIMITY CONTRACTOR TO COORDINATE.
- THE OVERHEAD UTILITIES SHALL BE SHIELDED BY OTHERS PRIOR TO CONSTRUCTION.



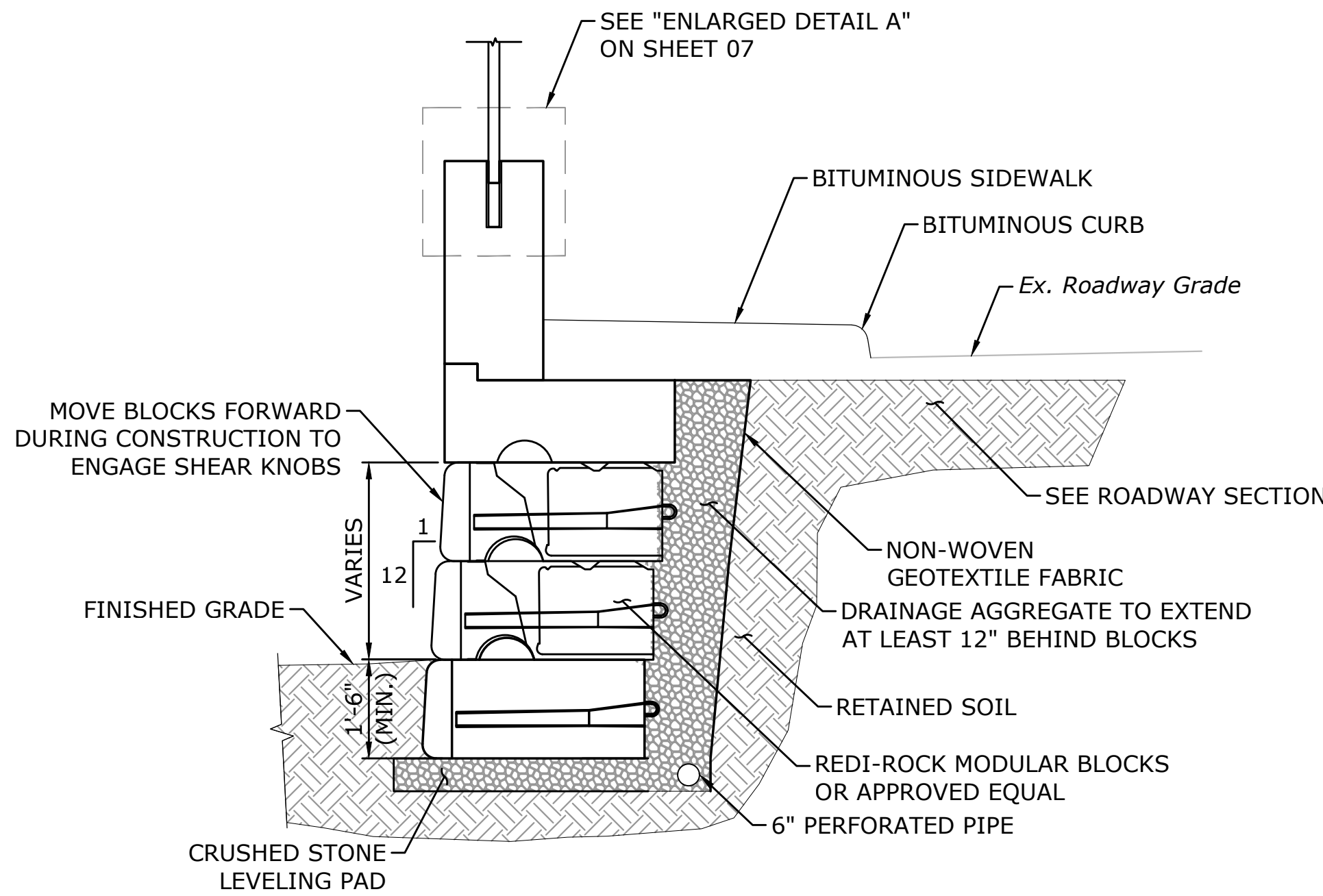
DESCRIPTION	DATE	BY
ADDENDUM NO. 2	12-04-2019	KP
ADDENDUM NO. 3	12-02-2019	KP

PROPOSED PLAN
RECONSTRUCTION OF THAMES STREET WALL
AT ELECTRIC BOAT
THAMES STREET
GROTON, CONNECTICUT

KP	NP	KP
DESIGNED	DRAWN	CHECKED
SCALE: 1"=10'		
DATE: NOVEMBER 22, 2019		
PROJECT NO.: 2536-13		
DRAWING NO.: STR-01		

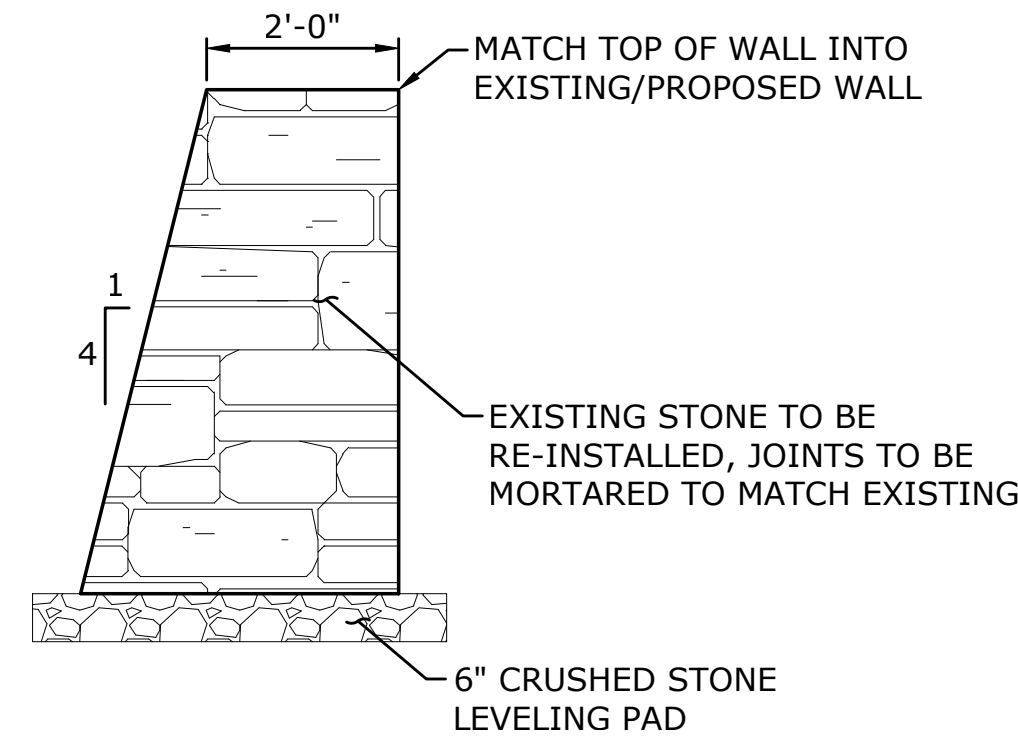
MODULAR BLOCK RETAINING WALL NOTES

- RETAINING WALL BLOCKS SHALL BE BY:
REDI-ROCK Walls of New England
Carroll Concrete Co.
8 Reeds Mill Road
P.O. BOX 1000
Newport, NH 03773-1000
(617) 620-1667
- LEVELING PAD SHALL CONSIST OF WELL GRADED ROAD BASE AGGREGATE, 3/4" CRUSHED, ANGULAR GRAVEL WITH SOME FINES. CONTRACTOR MAY OPT FOR A LEAN CONCRETE LEVELING PAD. PAD SHALL BE UNREINFORCED LEAN CONCRETE, 200-300 PSI, 3" THICK MAXIMUM. DRAINAGE AGGREGATE SHALL CONSIST OF CLEAN ANGULAR GRAVEL, 3/4" DIAMETER WITH LESS THAN 5% FINES.
- DRAINAGE PIPE SHALL BE PERFORATED HDPE PIPE. REINFORCED BACKFILL SHALL BE FREE OF DEBRIS, ORGANIC SOIL, AND EXPANSIVE SOILS. FOR UNITS TO BE EMBEDDED, COMPACT FILL IN FRONT OF UNITS AT THE SAME TIME FILL BEHIND UNITS IS COMPACTED.
- COMPACTION SHALL BE 95% OF MAXIMUM STANDARD PROCTOR DENSITY (ASTM D-698). COMPACTION TESTS SHALL BE TAKEN AS THE WALL IS INSTALLED. THE MINIMUM NUMBER OF TESTS SHALL BE DETERMINED BY THE CONTRACTOR'S DESIGN ENGINEER.
- COMPACTION WITHIN 3 FT OF WALL SHALL BE LIMITED TO HAND OPERATED EQUIPMENT. CONTRACTOR SHALL SLOPE SITE GRADES TO DIRECT SURFACE RUNOFF AWAY FROM WALL AT END OF EACH DAY TO AVOID WATER DAMAGING THE WALL WHILE UNDER CONSTRUCTION. ANY SURFACE DRAINAGE FEATURES, FINISHED GRADING, PAVEMENT, OR TURF SHALL BE INSTALLED IMMEDIATELY AFTER WALL IS COMPLETED.



MODULAR BLOCK UN-REINFORCED WALL

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

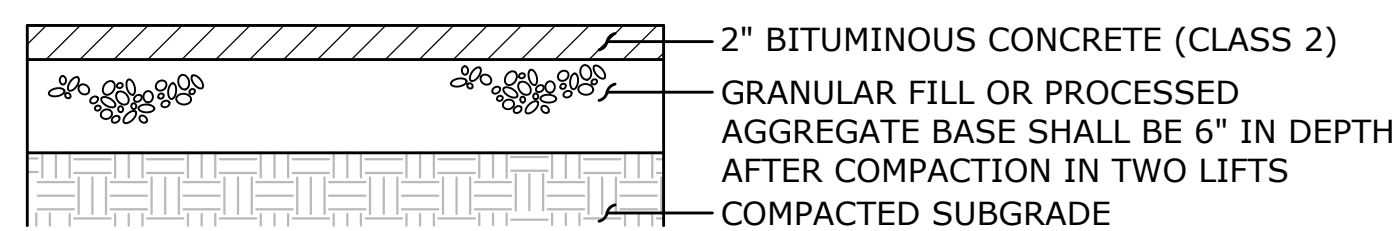


REMOVE & RESET EXISTING STONE WALL

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

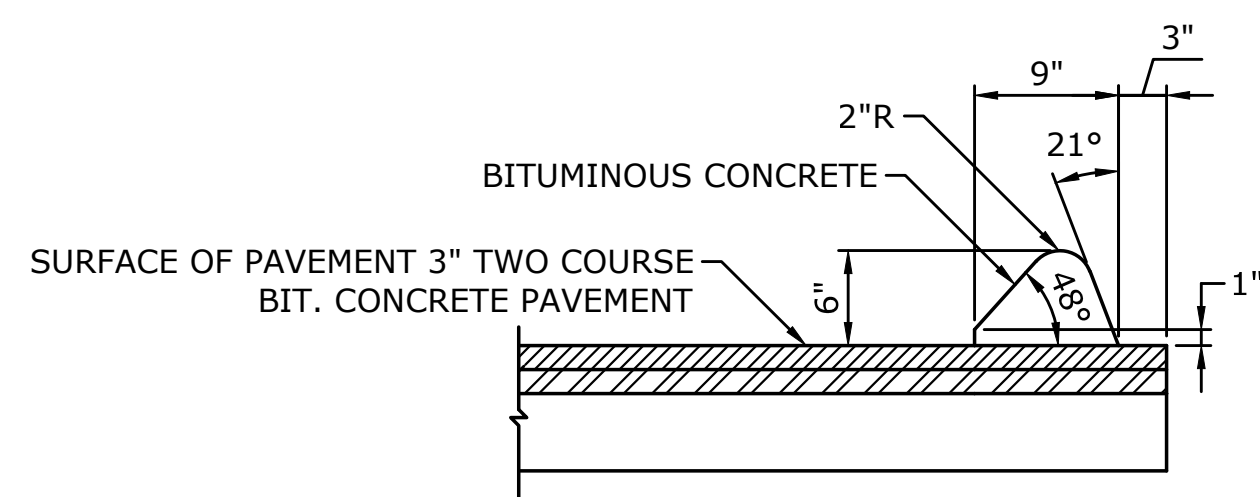
NOTE

TO BE PAID UNDER ITEM "REBUILD STONE WALL"



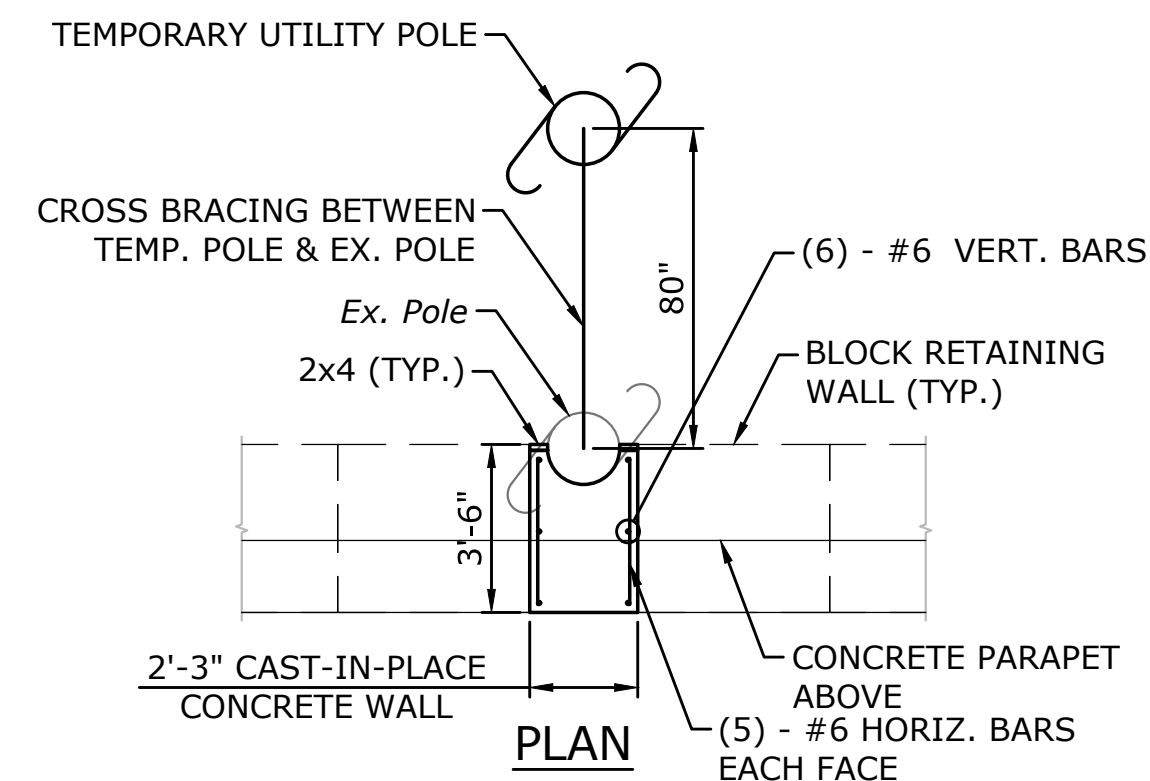
BITUMINOUS CONCRETE SIDEWALK

N.T.S.

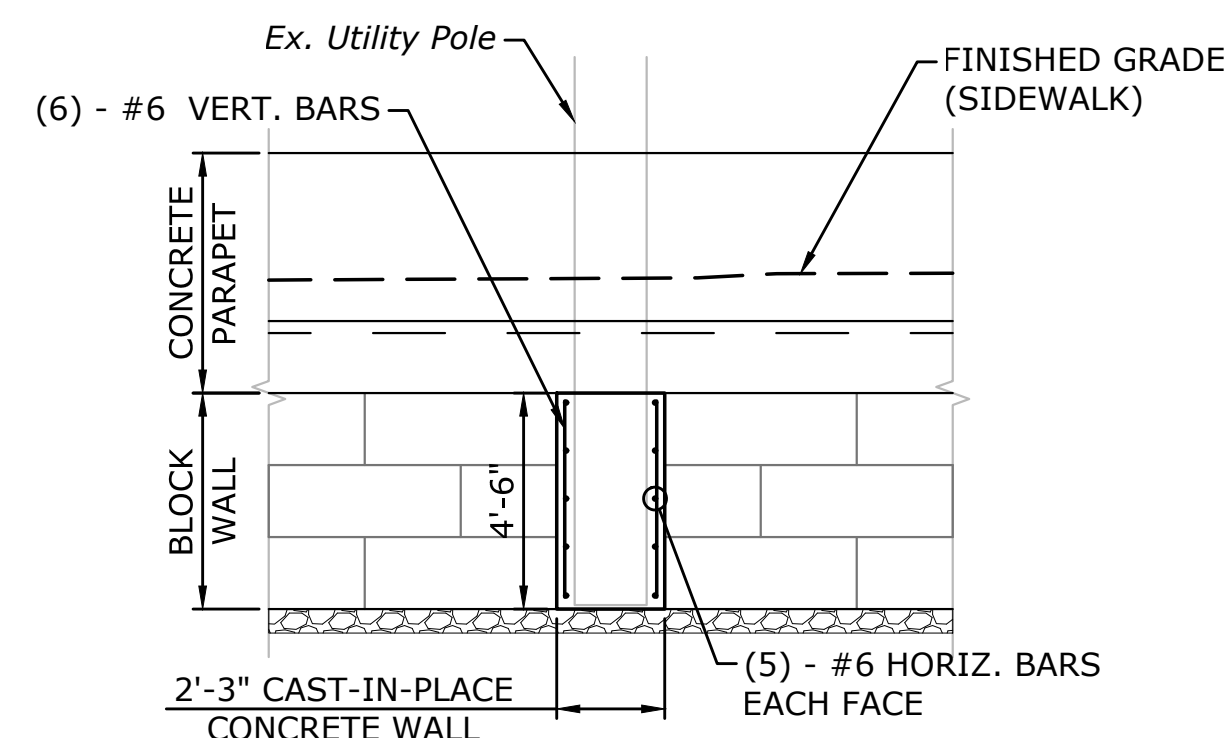


BITUMINOUS CONCRETE LIP CURBING

SCALE: 1"=1'-0"



PLAN



ELEVATION

RETAINING WALL AT UTILITY POLE

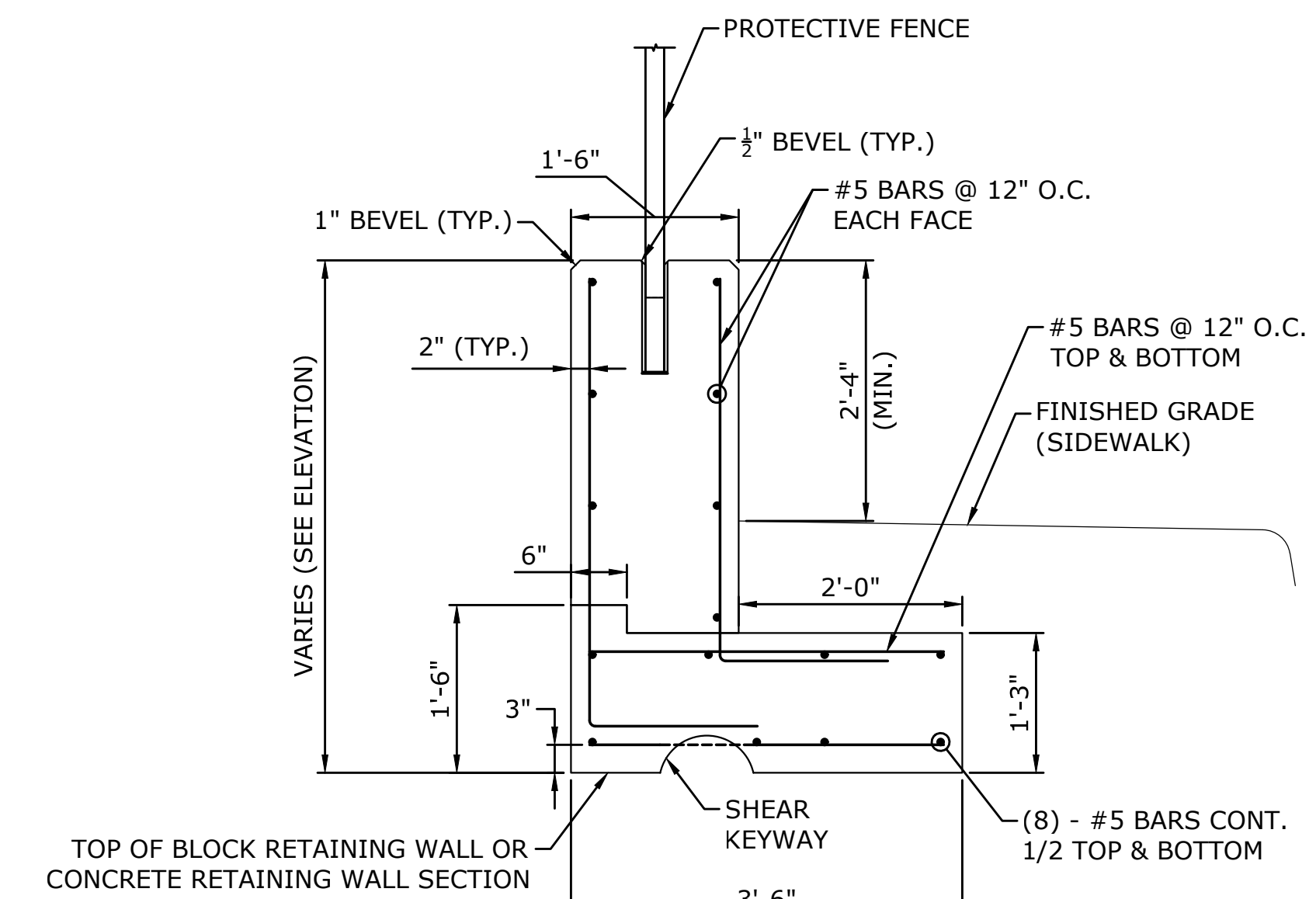
SCALE: 1/4"=1'-0"

GENERAL NOTES

- SPECIFICATIONS:** CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 817 (2016), SUPPLEMENTAL SPECIFICATIONS JANUARY 2019, AND SPECIAL PROVISIONS.
- DESIGN SPECIFICATIONS:** AASHTO LRFD DESIGN SPECIFICATIONS, 8TH EDITION, 2017, AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003) WITH INTERIM REVISIONS UP TO AND INCLUDING 2011.
- ALLOWABLE DESIGN STRESSES:**
CLASS "F"
FLOWABLE FILL
BASED ON F_c = 4,400 psi
BASED ON F_c = 2,000 psi
- EXISTING DIMENSIONS:** DIMENSIONS AND ELEVATIONS OF THE EXISTING STRUCTURE SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISH WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR REFERENCE BY THE REVIEWER.

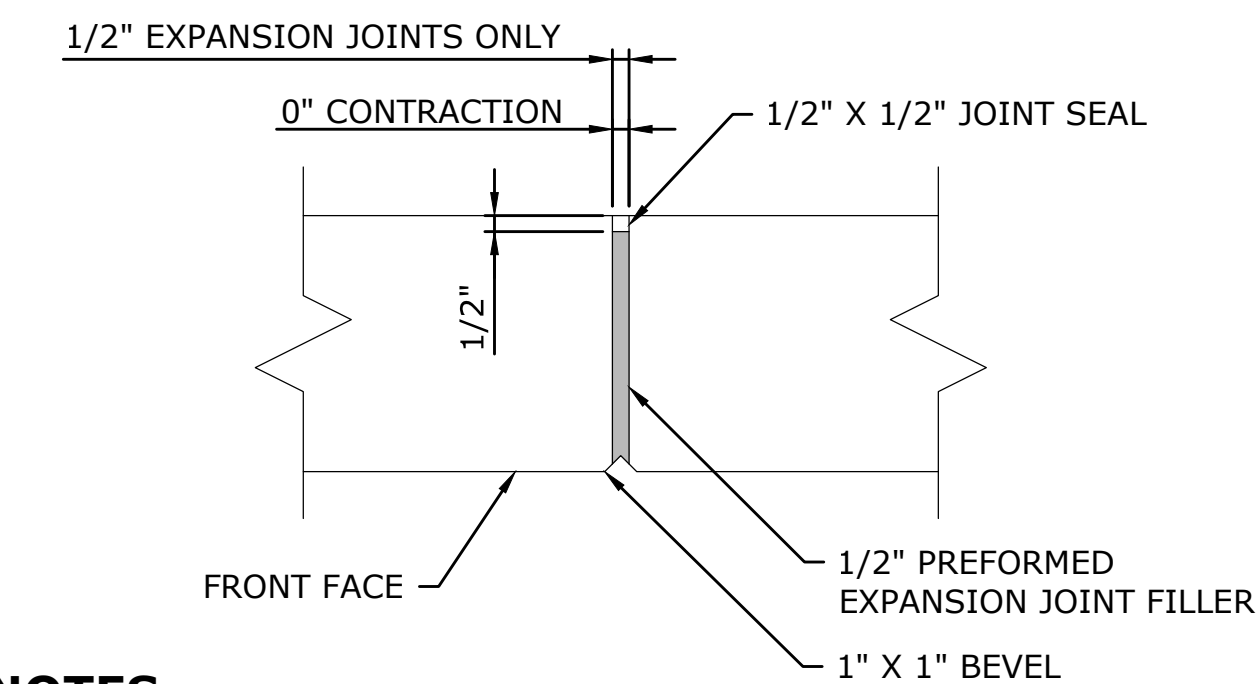
CONCRETE NOTES

- CLASS "F" CONCRETE:** CLASS "F" CONCRETE SHALL BE USED FOR RETAINING WALL SECTION & PARAPET.
- FLOWABLE FILL:** SHALL BE USED TO FILL BETWEEN RETAINING WALL & EXISTING SPILLWAY SLAB AND WINGWALL.
- EXPOSED EDGES:** EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1"x1" UNLESS DIMENSIONED OTHERWISE.
- CONCRETE COVER:** ALL REINFORCEMENT SHALL HAVE TWO INCHES COVER UNLESS DIMENSIONED OTHERWISE.
- REINFORCEMENT:** ALL REINFORCEMENT SHALL BE ASTM A615 GRADE 60 - EPOXY COATED.
- CONSTRUCTION JOINTS:** CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.



CONCRETE PARAPET SECTION

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



NOTES

- JOINT SEAL TO EXTEND FROM TOP OF FOOTING TO TOP OF WALL.
- NO REINFORCEMENT SHALL PASS THROUGH EXPANSION OR CONTRACTION JOINT.
- REINFORCEMENT SHALL PASS THROUGH CONSTRUCTION JOINTS.

CONTRACTION & EXPANSION

JOINT DETAIL

NOT TO SCALE



DESCRIPTION	DATE	BY
ADDENDUM NO. 3	12-09-2019	KP

STRUCTURAL DETAILS
RECONSTRUCTION OF THAMES STREET WALL
AT ELECTRIC BOAT
THAMES STREET
GROTON, CONNECTICUT

KP	NP	KP
DESIGNED	DRAWN	CHECKED

AS NOTED
DATE: NOVEMBER 22, 2019
PROJECT NO.: 2536-13
DRAWING NO.: STR-02