SEPTEMBER 8, 2021
INTERSECTION IMPROVEMENTS ON CT ROUTE 35 (MAIN STREET)
FEDERAL AID PROJECT NO. 0035(105)
STATE PROJECT NO. 0117-0159
TOWN OF RIDGEFIELD

ADDENDUM NO. 1

SPECIAL PROVISION

REVISED SPECIAL PROVISION

The following Special Provision is hereby deleted in its entirety and replaced with the attached like-named Special Provision:

- ITEM NO. 0506017A – RETAINING WALL

CONTRACT ITEMS

NEW CONTRACT ITEM

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
0751831	6" OUTLET FOR UNDERDRAIN	LF	1

DELETED CONTRACT ITEM

ITEM NO.	DESCRIPTION	ORIGINAL QUANTITY	REVISED QUANTITY
0213100	GRANULAR FIL	10 CY	0 CY

PLANS

REVISED PLANS

The following Plan Sheets are hereby deleted and replaced with the like-numbered Plan Sheets:

02.01.A1 – LIST OF REVISIONS
04.02.A1 – GENERAL PLAN
04.03.A1 – RETAINING WALL LAYOUT PLAN
04.04.A1 – CURVED RETAINING WALL
04.05.A1 – DEVELOPED RETAINING WALL ELEVATION
04.06.A1 – RETAINING WALL SECTIONS

The Bid Proposal Form has been revised to reflect these changes.

The Detailed Estimate Sheets do not reflect these changes.

There will be no change in the number of calendar days due to this Addendum.

The foregoing is hereby made a part of the contract.

ITEM #0506017A – RETAINING WALL

Description: Work under this item shall include all concrete and masonry retaining walls, steps, and other miscellaneous structures.

All such structures shall be built in the locations indicated or directed, to the lines, grades, dimensions and details shown on the plans and in accordance with the provisions of these specifications for the various Contract items which constitute the completed structure.

Materials: Materials shall conform to the following requirements and those not listed below shall be as prescribed within the *Standard Specifications for Roads, Bridges, Facilities, and Incidental Construction*, including supplemental specifications and applicable special provisions**.**

Concrete: Concrete shall be Class PCC03340.

Reinforcing Steel: Reinforcing steel shall be ASTM A615, Grade 60. All reinforcement shall be galvanized in accordance with ASTM A767, Class I.

Granite Stone**:** The wall shall be constructed using granite stones supplied by the Town of Ridgefield. The Contractor shall coordinate with Connecticut Stone to determine the location and time(s) to pick-up the granite stone required for construction of the retaining wall in front of Ballard Park.

Connecticut Stone Contact Info:

Phone: (203) 882-1000

Address: Connecticut Stone
138 Woodmont Road
Milford, CT 06460

The dimensions and tolerances of the granite stones used in the curved section shall be as follows:

- Height: 12 inches +/- ½ inch
- Width: 12 inches +/- ½ inch
- Length: 17 – 1/8 inches +/- ½ inch
- Length: 26 – 1/8 inches +/- ½ inch

The dimensions and tolerances of the granite stones used in the straight sections shall be as follows:

- Height: 12 inches +/- ½ inch
- Width: 12 inches +/- ½ inch
- Length: 41 - ½ inches +/- ½ inch
- Length: 20 – ½ inches +/- ½ inch

Stones not within tolerance shall not be used and shall be returned to the Town.

Underdrain Piping: The pipe of underdrains shall meet the requirements of M.08.01.

Underdrain Joint Sealants: The materials for sealing and coupling of pipe joints shall meet the requirements of M.08.01.

Geotextile for Underdrain: Geotextile shall be as specified in M.08.01-19 Geotextiles.

Backfill Material: The material for backfill shall be Pervious Structure Backfill meeting the requirements of Articles M.02.05 and M.02.06.

Bedding Material: The material to be placed under the footing shall be Granular Fill meeting the requirements of Articles M.02.01 and M.02.06.

Mortar: The material for mortar shall meet the requirements of M.11.04.

Construction Methods: All construction methods for items not listed below shall be in accordance with the detailed requirements prescribed for the construction of the several contract items entering into the completed structure as specified in the *Standard Specifications.*

Installation: The foundation for the structure shall be graded level as shown on the plans. If rock is encountered in the excavation, it shall be removed to provide a level area equal to or exceeding the length of the wall, but not greater than the retaining wall pay limits shown on the plans. Prior to wall construction, the foundation, if not in rock, shall be compacted as directed by the Engineer. Any foundation soils found to be unsuitable, as determined by the Engineer, shall be removed and replaced.

Cast-In-Place Concrete Footing and Stem: At each foundation level, the concrete footing shall be constructed cast-in-place on 6-inches of granular fill, as shown on the plans. The footing shall be cast to the design elevations as shown on the plans and reinforced with galvanized wire mesh. The stem shall be cast to the design elevations as shown on the plans and reinforced with No. 4 rebar. Allowable elevation tolerances are +0.01 foot (1/8 inch), and -0.02 foot (1/4 inch), from the design elevation.

Granite Stone: The granite stone shall be visually inspected prior to use and shall be handled carefully and installed in accordance with the mortar manufacturer's recommendations and specifications. Special care shall be taken in setting the bottom course of granite stone to true line and grade. Each granite stone unit shall be cleaned and clear of any debris before being set.

Vertical joints shall be staggered with each successive course. Vertical tolerances and horizontal alignment tolerances measured from the face line shown on the plans shall not exceed ½ inch when measured along an 8-foot straightedge. The overall tolerance of the wall from top to bottom shall not exceed ½ inch per eight feet of wall height, or one-inch total, whichever is the lesser, measured from the face line shown on the plans.

Mortar Joints: Mortar shall be placed in between horizontal and vertical joints of the granite stones. Mortar joints shall be a minimum of ¼ inch and a maximum of ¾ inch, or as directed by the Engineer.

Underdrains: Underdrains shall have a 6-inch nominal diameter, perforated and placed at the base of the concrete stem and sloped a minimum of 1%. Underdrains shall be constructed to the locations and limits shown on the Plans. Invert elevations shall be as shown on the Plans.

Where the perforations are to be at the bottom of the pipe, the Pervious Structure Backfill shall then be placed to a depth of 3 inches and tamped true to grade. The pipe shall be placed and firmly bedded on the Pervious Structure Backfill. This Pervious Structure Backfill shall be placed whether the pipe is encased with geotextile or not.

When the pipe used has a bell, the pipe shall be installed with the bell end upgrade with the spigot end entered fully into the adjacent bell.

When clay or concrete pipe is used, the joints will not have to be filled with a joint sealant or fitted with a gasket.

When metal, bituminized fiber, plastic, polyethylene or cement pipe is used, the pipe shall be carefully butted together and held by bands or other approved means so as to prevent any displacement of the joint.

After the pipe has been installed as described above, the Pervious Structure Backfill shall be placed carefully around and over the pipe to a height of 12 inches above the top of the pipe. When the underdrain pipe is used with the holes in an upward position, geotextile shall be used to minimize infiltration of fines. When geotextile is used, the entire length of each pipe shall be wrapped with the fabric and the seams lapped and welded or bonded. Where the seams of the geotextile are not welded or bonded, they shall be lapped to a minimum width equal to the diameter of the pipe.

Where shown on the plans or directed by the Engineer, the Contractor shall connect underdrains to proposed drainage systems or structures.

Where the upgrade end of the underdrain does not enter a structure, it shall be capped or plugged as directed.

Backfilling: Backfill placement shall proceed after initial set of the mortar, per manufacturer's recommendations. Backfill shall be placed in such a manner as to avoid any damage or disturbance to the wall materials or misalignment of the stone. Any wall materials which become damaged or disturbed during backfill placement shall be either removed and replaced at the Contractor's expense or corrected, as directed by the Engineer.

The dry density of each layer of backfill after compaction shall not be less than 95% of the maximum dry density for that material when determined by the Contractor in accordance with AASHTO T180 and measured in-place with ASTM D6938 or other methods approved by the Engineer. The Contractor shall perform in-place density testing at a sufficient frequency to ensure that the specified results are continuously met. The Contractor shall submit complete field density testing and inspection records to the Engineer within 48 hours (excluding weekends and holidays) of the test in a manner acceptable to the Engineer.

The maximum lift thickness after compaction shall not exceed 10 inches. The Contractor shall decrease this lift thickness, if necessary, to obtain the specified density. Compaction within three feet of the back face of the wall shall be achieved by at least three passes of a lightweight mechanical tamper, roller or vibratory system. The specified lift thickness shall be adjusted as warranted by the type of compaction equipment actually used. Care shall be exercised in the compaction process to avoid misalignment of the stone or damage to other wall materials. Heavy compaction equipment shall not be used to compact backfill within three feet of the wall face.

At the end of each day's operation, the Contractor shall slope the last level of backfill away from the wall facing to direct runoff away. The Contractor shall control and divert runoff at the ends of the wall such that erosion or washout of the wall does not occur. In addition, the Contractor shall not allow surface runoff from adjacent areas to enter the wall construction site.

Method of Measurement: This work will be paid for on a lump sum basis and will not be measured for payment.

Basis of Payment: This work will be paid for at the Contract lump sum price for "RETAINING WALL," complete in place, which price shall include all work shown within the pay limits shown on the plans for the retaining wall including the following:

1. Excavation for the wall

2. Design and Construction of temporary earth retaining systems for the support of the slope during construction.

3. Construction of the Granite Stone Retaining Wall, including the concrete footing, concrete stem, reinforcing steel, and mortar, but not including

furnishing the granite stone which will be provided by the Town of Ridgefield.

4. The furnishing, placing, and compacting of granular fill below the retaining wall footing and as shown on the plans.

5. The furnishing, placing, and compacting of pervious structure backfill within the maximum payment lines.

6. The furnishing and placing of backfill drainage systems (6-inch underdrains) for the wall.

7. Any other work and materials shown on the plans for the construction of the wall.

If bedrock or large boulders (greater than one cubic yard) are encountered in the excavation, the payment for its removal will be made under the item "Structure Excavation - Rock".

Pay Item	Pay Unit
Retaining Wall	l.s.