

ADDENDUM NO. 1

State Project No. 9087-4000
Rehabilitation of Structure
Maple Street Over Naugatuck River
Bridge No. 04214
Borough of Naugatuck, CT

2/5/2016

Department of Public Works
246 Rubber Ave
Naugatuck, CT

Receipt of this addendum must be acknowledged on the Proposal/Bid Form. Please recognize the following changes regarding the above contract bid.

- A1.1 A pre-bid meeting and site walk was held on January 26, 2016. Questions were asked at that meeting. The questions with answers and the attendance sheet are included in Attachment A1.1
- A1.2 The Town received additional written questions. These questions with answers are included in Attachment A1.2
- A1.3 Some item descriptions were cut off on the schedule of prices. A revised Schedule of Prices is provided in Attachment A1.3
- A1.4 A new Bid Bond is provided referencing the Borough of Naugatuck in place of the State of Connecticut.
- A1.5 Plans sheet 2 has been revised. Revised sheet is provided in Attachment A1.5.

Attachment A1.1

Pre-Bid Meeting

State Project 9087-4000
Rehabilitation of Structure
Maple Street Bridge over Naugatuck River
Bridge No. 04214

PRE-BID MEETING
1/26/2016; 10:00AM

The meeting commenced at 10:00 AM. See attached sheet for attendance. Peter Perkins from Clough, Harbour & Associates conducted the meeting and started with a brief description of the project. The following general items were discussed:

1. The project consists of bridge rehabilitation with architectural finishes.
2. The bridge is 180feet long by 60 feet wide. The width is made up of a 40 foot wide concrete arch flanked on each side by a 10 foot wide granite arch.
3. The architectural features generally include a pocket park, cement paver road surface, colored concrete, decorative light posts and sign posts.
4. Since this is a rehabilitation project the actual quantities for repair-related items are unknown. The quantities shown on the Schedule of Prices for these items are approximate. Additionally some items may not be constructed based on the bids. Due to these conditions the work will be paid at the unit bid price for the actual work performed and clauses for renegotiation for eliminated items or varied quantities does not apply.
5. The contracted duration is 480 days. Town expects to award by the end of February.
6. The liquidated damages are \$1300 per day.
7. State set aside requirements apply. 25% of the state funding must be awarded to DAS certified firms under the provisions of CGS 4a-60g, as amended (25% of the work with DAS certified Small and Minority owned businesses and 25% of that work with DAS certified Minority, Women and/or Disabled owned businesses). This project is expected to receive 50% state funding. The set aside requirement for this project is 13% of the total bid price.
8. A special attention item is Trafficperson (Municipal Police Officer). Under this item the contractor is to bid the number of hours they expect to use to complete the project under their proposed means and methods. The Town has an ordinance that requires the use of town police for any road work.
9. Frontier will remove the concrete around their conduits and free them from the bridge and place them in the temporary support provided by the contractor. After rehabilitation, Frontier will move the conduits back to the structure.

10. The existing building on the southeast quadrant has been removed and the area is available for the contractors use.
11. An area in the parking lot near the southwest quadrant is available for the contractors use and can be negotiated with the town.

The meeting was opened to questions. The following questions were asked:

1. Do in-stream work limits apply?
Yes in-stream work limits apply and are listed in the plans.
2. Is builders risk insurance required?
No. The insurance requirements are listed in the bid documents.
3. Does installation of silt curtain count as in-stream work?
No. The Department of Transportation has confirmed that the installation and removal of silt curtain is not considered in-stream work for the purposes of the time of year restrictions.
4. Will the Town consider a credit for closing the bridge?
The project should be bid as designed. The Town will discuss alternatives to the plans with the apparent low bidder.
5. Is the soil contaminated?
It is unknown if the soil is contaminated.
6. Is the water contaminated?
It is unknown if the water is contaminated.
7. How high can the Frontier conduits be lifted?
It is unknown how much slack is in the conduits. Frontier guesses no more than 2 feet above the deck. Pay items for excavating the Frontier conduits off the bridge to gain more slack have been included in the contract.
8. Are the overhead wires above the north fascia live or dead?
The overhead wires appear to be live. The contractor shall coordinate with the utility companies to enable their means and methods of construction.

A site walk was conducted following the meeting. The following areas were walked:

1. North bridge fascia
2. Existing pocket park on the northeast quadrant.
3. Land of former building available for use by Contractors.
4. South bridge fascia

STATE PROJECT 9087-4000

Rehabilitation of Maple Street Bridge Over Naugatuck River

PRE-BID Meeting

1/26/2016

NAME	COMPANY	EMAIL	PHONE
Peter Perkins	CHA	pperkins@chacompanies.com	860-257-4557
James Stewart	Borough of Naugatuck	JStewart@naugatuck-ct.gov	203-720-7071
Thomas Cocuzzi	Mohawk Northeast	thococuzzi@mohawknortheast.com	860-621-1451
Ryan Nadeau	Rotta Contracting Co.	ryan@rottacontracting.com	860-678-7600
Todd Plourde	Toddmork Contracting LLC	toddp@plourde@sbcglobal.net	860 582 3006
Alan P. DAYTON	Dayton CONSULT	adcc@daytonconstruction.com	860-274-2991
RUSS HEINKE	MOHAWK NORTHEAST, INC	russe@mohawknortheast.com	860 993-2964
Jason Mauro	New England Infrastructure	jmauro@newinfrastructure.com	978-293-3535
Chris Gladue	Terry Contracting	Chasgterrycontracting@gmail.com	203-948-1366
Gary Swanson	Frontier	gary.k.swanson@ftr.com	203-575-6112
Tom DeLorenzo	Frontier	thomas.a.delorenzo@ftr.com	203-238-5202
Jeff Grynuk	Lightower	jgrynuk@lightower.com	585.568.8407
CHARLES BAIER	BAIER CONST. Co. INC	baier.constr@comcast.net	(860) 286-0028
Ryan Giguere	NJR Construction LLC	Njrconstruction@sbcglobal.net	860-618-7322

Attachment A1.2

Questions and Responses

ADDENDUM NO. 1

State Project No. 9087-4000
Rehabilitation of Structure
Maple Street Over Naugatuck River
Bridge No. 04214
Borough of Naugatuck, CT

RESPONSES TO QUESTIONS:

1. Note #7 on sheet 2 states that excavated materials may be stockpiled for re-use as directed by the engineer and that the cost of stockpiling, re-handling, and use as backfill will be included in the item "Structure Excavation - Earth" There is no bid item for Structure Excavation – Earth.
The stockpiling of excavated materials shall be included in the excavation items. The note will be revised.
2. Note 4 on sheet 15 states the concrete arches are to be repaired in strips not more than 6 feet wide the full length of an arch before proceeding to the next strip, how long must each strip cure prior to repairing the adjacent strip or will this be determined by compressive test results?
The concrete must reach 75% of the design strength determined by compressive tests.
3. Regarding the repairs to the abutments and piers is there a lower limit of repair? By elevation, or with reference to existing river bottom. If excavation is required to inspect and or make repairs under what item will the excavation be paid for?
The lower limit of repair shall be assumed to be 1 foot below the bottom of river. The moving and replacing of existing fill will be paid for as Channel Excavation-Earth.
4. Temporary slab supports - will these be used to support the arch within the 6-foot-wide strip being repaired or the adjacent sections of the arch?
The temporary supports are to support the width of arch being repaired.
5. The location given to set up a crane is on the south side of the bridge and half of the cofferdam work is on the north side of the bridge. The traveling public (pedestrians and vehicles) are not allowed to pass under the boom of a working crane. Are any week day or weekend full bridge closures anticipated? If so what type of duration?
A full closure will be allowed for installation of the north side cofferdam. The scheduling and duration of the full closure will be coordinated during construction. Alternative maintenance and protection of traffic plans and details to facilitate the Contractor's means and methods are subject to review and approval by the Town and CTDOT; costs associated with alternative MPT plans and details should be included in the contract bid prices.

Attachment A1.3

Schedule of Prices

**TOWN OF NAUGATUCK
SCHEDULE OF PRICES
FOR THE CONSTRUCTION OF**

**STATE PROJECT NO. 9087-4000, FA # N.F.A.
REHABILITATION OF BRIDGE NO. 04214, MAPLE STREET OVER NAUGATUCK RIVER**

DATE OF
BID OPENING February 16, 2016

TIME: 11:00 A.M. NO BIDS WILL BE ACCEPTED AFTER 10:00 A.M. "NO EXCEPTION"

Note: --- Except for Traficperson(Municipal police Officer), The bidder shall fill in, under the column "Unit Prices Bid," the unit prices, written in words and in numbers, for which he proposes to perform the various items of work called for, and under the column headed "Amount," the amount of each of the items at the unit price bid. For Traffic Person(Municipal Police Officer), the bidder shall fill in, under the column "Unit Prices Bid," the number of hours, written in words and in numbers, for the number of hours he proposes to use to perform all the work, and under the column headed "Amount," the amount of the hours at the quantity of \$76/hr. After the proposal is opened and read, the quantities will be extended and totaled in accordance with the written bid prices and the bid will be verified or corrected.

Item Number	Description	Unit	Approx Quantities	Unit Prices Bid		Amount (Figures)
				Figures	Writing	
* 90060A	BRIDGE PLAQUE	EA.	1			
201013A	REMOVAL OF EXISTING FENCE	LF	35			
202002	EARTH EXCAVATION	C.Y.	140			
202101	ROCK EXCAVATION	C.Y.	15			
202202	CHANNEL EXCAVATION-EARTH	C.Y.	800			
202491A	REMOVAL OF GRANITE STONE CURBING	L.F.	485			
202529	CUT BITUMINOUS CONCRETE PAVEMENT	L.F.	300			
204001	COFFERDAM AND DEWATERING	LF	1250			
205004	ROCK IN TRENCH EXCAVATION 0'-10' DEEP	C.Y.	150			
212000	SUBBASE	C.Y.	40			
303050A	CONCRETE PAVER ON 4" CONCRETE BASE SLAB	SF	700			
* 402903A	BRICK PAVING	S.F.	7600			
406170	HMA S1	TON	125			
406171	HMA S0.5	TON	180			
406172	HMA S0.375	TON	80			
406236	MATERIAL FOR TACK COAT	GAL.	100			
406272A	MILLING OF HOT MIX ASPHALT (HMA) - 0-4 INCHES	S.Y.	1100			
507006	TYPE "C" CATCH BASIN TOP	EA.	4			
507701	RESET TYPE "C" CATCH BASIN	EA.	4			
511203A	POLYVINYL CHLORIDE PLASTIC PIPE WEEPHOLES	EA.	5			
511211A	CONSTRUCT WEEP DRAINS	EA.	9			
* 514981A	PRECAST CONCRETE ARCHITECTURAL PANELS (SITE NO. 1)	L.S.	1			
520036A	ASPHALTIC PLUG EXPANSION JOINT SYSTEM	L.F.	80			
601196A	VARIABLE DEPTH PATCH	C.F.	5000			
601201	CLASS "F" CONCRETE	C.Y.	450			
* 601231A	LIGHTWEIGHT CONCRETE	C.Y.	400			
* 601418A	BLAST CLEAN EXISTING CONCRETE	S.F.	5000			
602002	DEFORMED STEEL BARS	LB.	13000			
602006	DEFORMED STEEL BARS-EPOXY COATED	LB.	35000			
602890	DOWEL BAR SPLICER SYSTEM	EA.	4700			
602910A	DRILLING HOLES AND GROUTING DOWELS	EA	550			
* 603736A	SPECIAL PAINTING TREATMENT	S.F.	3200			
603893A	TEMPORARY SLAB SUPPORT	L.F.	400			
605000A	DIMENSION STONE MASONRY	S.Y.	3.2			
* 605001A	BLOCK STONE MASONRY	E.A.	4			
* 609030A	REPOINT MORTAR JOINTS	L.F.	700			
651012	18" R.C. PIPE	L.F.	20			
703010A	STANDARD RIPRAP	TON	90			
703029A	ROUNDED STONE RIPRAP	TON	1500			
707001	MEMBRANE WATERPROOFING (WOVEN GLASS FABRIC)	S.Y.	850			
755009	GEOTEXTILE	S.Y.	400			
811001	CONCRETE CURBING	L.F.	25			
813001	5" GRANITE STONE CURBING	L.F.	100			
813011	5" GRANITE CURVED STONE CURBING	L.F.	45			
814002	RESET GRANITE STONE CURBING	L.F.	15			
* 818022A	COLOR ADDITIVE FOR CONCRETE	S.F.	3200			
822001A	TEMPORARY PRECAST CONCRETE BARRIER CURB	L.F.	150			
822005A	TEMPORARY PRECAST CONCRETE BARRIER CURB (STRUCTURE)	L.F.	180			
822006A	RELOCATED TEMPORARY PRECAST CONCRETE BARRIER CURB (STRUCTURE)	L.F.	180			
904136A	REMOVAL OF EXISTING METAL BRIDGE RAIL	L.F.	360			
914017A	ORNAMENTAL METAL FENCE (5' HIGH)	LF	52			
921001A	CONCRETE SIDEWALK	S.F.	2000			
* 921036A	RETRO-FIT DETECTABLE WARNING STRIP	EA	4			
* 944000	FURNISHING AND PLACING TOPSOIL	SY	8			
* 949000	WOOD CHIP MULCH	SY	12			
949039	BETULA NIGRA "HERITAGE" HERITAGE RIVER BIRCH 2 1/2 " - 3" cal. B.B.	EA	2			
949071	PYRUS CALLERYANA 'CLEVELAND SELECT' CLEVELAND SELECT FLOWERING PEAR 2"-2 1/2" cal. B.B.	EA	2			
* 949243	SPIRAEAxBUMALDA 'ANTHONY WATERER' ANTHONY WATERER SPIREA 15"-18" ht. #2CONT.	EA	33			
* 949255	JUNIPERUS HORIZONTALIS 'BLUE CHIP' BLUE CHIP JUNIPER 15"-18" sprd. #3CONT.	EA	31			
* 949670	THUJA OCCIDENTALIS 'NIGRA' DARK GREEN ARBOVITAE 3'-4' ht. B.B.	EA	10			
* 949731	TAXUS X MEDIA 'WARDII' COMPACT YEW 18"-24" ht. B.B.	EA	27			
* 950005	TURF ESTABLISHMENT	SY	8			
* 952100A	PLANTER - CONCRETE	EA.	6			
969060A	CONSTRUCTION FIELD OFFICE, SMALL	MO.	20			
970006A	TRAFFICPERSON (MUNICIPAL POLICE OFFICER)	HR	\$76.00/hr			
971001A	MAINTENANCE AND PROTECTION OF TRAFFIC	L.S.	1			

Kindly insert here the total amount of your Bid \$ _____
It is understood that the unit prices shall govern in case of discrepancy between the unit-prices and this amount.
This bid includes addenda no.: 1

**TOWN OF NAUGATUCK
SCHEDULE OF PRICES
FOR THE CONSTRUCTION OF**

**STATE PROJECT NO. 9087-4000, FA # N.F.A.
REHABILITATION OF BRIDGE NO. 04214, MAPLE STREET OVER NAUGATUCK RIVER**

DATE OF
BID OPENING February 16, 2016

TIME: 11:00 A.M. NO BIDS WILL BE ACCEPTED AFTER 10:00 A.M. "NO EXCEPTION

Item Number	Description	Unit	Approx Quantities	Unit Prices Bid		Amount (Figures)
				Figures	Writing	
974001A	REMOVAL OF EXISTING MASONRY	C.Y.	750			
975002A	MOBILIZATION	L.S.	1			
978002	TRAFFIC DRUM	EA.	10			
979003	CONSTRUCTION BARRICADE TYPE III	EA.	15			
1001002A	TRENCHING AND BACKFILLING (TYPE I)	L.F.	710			
1001003A	TRENCHING AND BACKFILLING (TYPE II)	L.F.	125			
1001004A	TRENCHING AND BACKFILLING (TYPE III)	L.F.	130			
* 1003595A	DECORATIVE LIGHT POLE AND LIGHT FIXTURE	EA	7			
* 1003906A	REMOVE LIGHT STANDARD	EA.	2			
1008138A	4" POLYVINYL CHLORIDE CONDUIT IN STRUCTURE	L.F.	380			
1008143A	4" POLYVINYL CHLORIDE CONDUIT UNDER ROADWAY	L.F.	950			
1008144A	5" POLYVINYL CHLORIDE CONDUIT UNDER ROADWAY	L.F.	1110			
1008215A	2" RIGID METAL CONDUIT UNDER ROADWAY	L.F.	200			
1008315A	2" RIGID METAL CONDUIT IN STRUCTURE	L.F.	340			
1008870A	5" FIBERGLASS CONDUIT - HEAVY WALL	L.F.	1520			
1009005	8" X 8" X 8" CAST IRON JUNCTION BOX	EA.	4			
1010917A	INSTALL PRECAST CONCRETE MANHOLE	EA.	2			
1108724A	PHASE SELECTOR	EA.	1			
1112410A	DETECTOR (TYPE A)	EA.	1			
1112470A	PRE-EMPTION SYSTEM CHASSIS	EA.	1			
1113550A	DETECTOR CABLE (OPTICAL)	L.F.	500			
1116100A	INTERNALLY ILLUMINATED SIGN (LED)	EA.	1			
1118051A	TEMPORARY SIGNALIZATION (SITE 1)	L.S.	1			
1206013A	REMOVAL OF EXISTING SIGNING	L.S.	1			
1208928	SIGN FACE - SHEET ALUMINUM (TYPE III REFLECTIVE SHEETING)	S.F.	80			
* 1208997A	ORNAMENTAL SIGN POST	EA.	4			
1209005	PAINTED PAVEMENT MARKINGS (4") (WHITE)	L.F.	600			
1209007	PAINTED PAVEMENT MARKINGS (4") (YELLOW)	L.F.	600			
1209009	PAINTED PAVEMENT MARKINGS (12") (WHITE)	L.F.	25			
1209401	PAINTED LEGEND, ARROWS AND MARKINGS	S.F.	150			
1210101	4" WHITE EPOXY RESIN PAVEMENT MARKINGS	L.F.	100			
1210102	4" YELLOW EPOXY RESIN PAVEMENT MARKINGS	L.F.	570			
1210104	8" WHITE EPOXY RESIN PAVEMENT MARKINGS	L.F.	110			
1210105	EPOXY RESIN PAVEMENT MARKINGS, SYMBOLS AND LEGENDS	S.F.	1200			
1210106	12" WHITE EPOXY RESIN PAVEMENT MARKINGS	L.F.	70			
1211001	REMOVAL OF PAVEMENT MARKINGS	S.F.	170			
* 1211003	REMOVAL OF PLASTIC PAVEMENT MARKINGS	S.F.	400			
* 1212001	TEMPORARY PLASTIC PAVEMENT MARKING TAPE (4") (YELLOW)	L.F.	600			
* 1212002	TEMPORARY PLASTIC PAVEMENT MARKING TAPE (4") (WHITE)	L.F.	600			
* 1212010	TEMPORARY PLASTIC PAVEMENT MARKING TAPE (12") (WHITE)	L.F.	25			
* 1212017	TEMPORARY PLASTIC LEGEND ARROWS AND MARKINGS	S.F.	150			
1220027	CONSTRUCTION SIGNS	S.F.	500			
1504040A	TEMPORARY SUPPORT FOR EXISTING TELEPHONE DUCTS	L.S.	1			
1807016A	TEMPORARY IMPACT ATTENUATION SYSTEM TYPE A (TL-2)	EA.	2			
1807101	RELOCATION OF TEMPORARY IMPACT ATTENUATION SYSTEM TYPE A	EA.	2			

* Town may consider eliminating any item from the contract or using other bid items for the work at their discretion. No compensation will be made to the contractor for eliminating items. Specifically the items noted may be eliminated from the contract.

CONTRACT TIME AND LIQUIDATED DAMAGES

Four Hundred eighty (480) calendar days will be allowed for completion of the work on this project and the liquidated damages charge to apply will be One Thousand One Hundred Dollars and No Cents (\$1,300.00) per calendar day.

Note: PRIME CONTRACTOR'S REQUIREMENTS

- A. Proposal Guaranty (Bid Bond): Except when otherwise specified, no proposal will be considered unless accompanied by a proposal guaranty in the form of a bond furnished by a surety company, satisfactory to the Engineer, in an amount equal to at least 10% of the amount of the bid, or unless the bidder has on file in the Town, an annual bid bond in the proper amount. The surety must be a corporate surety licensed to sign surety bonds in the State of Connecticut.
- B. Not less than 13% of the total Contract value shall be subcontracted to, performed by, and paid to DBE/WBE's, See Bid Documents
- C. If the Contractor is unable to fulfill the DBE/WBE's percentage requirement, he may request an exception of the above percentage, by completing and submitting to the Town, the "Application for Review of Pre-award Good Faith Efforts," as contained in the General Special Provisions.
- D. Contractors must make sure that at the time of bidding, their Firms have an approved Affirmative Action Plan with the State of Connecticut, Department of Transportation (by contacting the Office of Contract Compliance at (860) 594-2178).
- E. The low bidder is required to submit to the Town, both a Certificate of Insurance (including Builder's Risk) and a Workers' Compensation Certificate on or before the signing of the Contract.
- F. Statement of Bidder's Qualifications: Each bidder is required to submit to the Town, no later than the day of the bid opening, a recent sworn statement of the bidder's qualifications on the form furnished by the Town for this purpose.
- G. Contracts will not be awarded until the above requirements have been submitted and approved.
- H. Please be aware that the Town, prior to the awarding of the Contract, may require further financial and other information from any applicant who becomes the low bidder for that Contract.

Attachment A1.4

Bid Bond

BID BOND

Name of Principal (Contractor, Second Party, etc...) _____ Project Identifier: 9087-4000.

KNOWN ALL PERSONS BY THESE PRESENTS:

That we _____ of _____

(hereinafter called the Principal) as Principal, and _____ a corporation

organized and existing under the laws of the State of _____ and duly authorized to transact a surety business in the State of Connecticut (hereinafter called the Surety), as Surety, are held and firmly bound unto the Borough of Naugatuck as Obligee, in the penal sum of TEN PERCENT (10%) OF THE AMOUNT OF THE ATTACHED BID in lawful money of the United States of America, for the payment of which, well and truly to be made to the Obligee, we bind ourselves, our heirs, successors, and assigns, jointly and severally, firmly by these presents has herewith submitted a bid for the contract for the above referenced project(s), bids for which are scheduled to be

opened on the 16 th day of February 2016, A.D.

THE CONDITION OF THIS OBLIGATION is such, that whereas the Principal has herewith submitted a bid for the contract for the above-referenced project(s)

NOW, THEREFORE, if the following conditions are satisfied, this obligation shall become void:

- a) The Principal shall not withdraw its bid within sixty (60) days after the bid opening of the same without the consent of the Borough of Naugatuck, Director of DPW (or designee), and
- b) The Borough of Naugatuck Director of DPW (or designee) shall Award said Project(s) to the Principal in writing, and
- c) The Principal shall, as required by the Burough of Naugatuck Director of DPW (or designee) pursuant to the bid specifications for the Project(s), execute a contract in writing for the Project(s) within the time specified by the Borough, after being notified by the Borough in writing of the Award, including all submissions relating to that contract execution as may be required by the bid specifications, to be submitted to the Borough of Naugatuck Director of DPW (or designee) prior to contract execution, and
- d) The Principal shall deliver such surety bond as shall be acceptable to said Director of DPW for the performance of the work according to said written agreement (contract), and shall in all other respects perform the agreement created by the acceptance of said bid.

Otherwise, the Principal and Surety hereto agree to pay unto the Obligee the difference between the amount of the bid of said Principal, submitted herewith, and the amount for which the Obligee may contract with another party to perform the work covered by the said bid of the Principal.

The Surety executing this instrument hereby agrees that its obligation shall not be impaired by any extension(s) of the time for contract execution that the Principal and Obligee may agree to, notice of which extension(s) to the Surety being hereby waived; provided that such waiver of notice shall apply only with respect to extensions aggregating not more than sixty (60) calendar days in addition to the original sixty (60) days allowed for expiration of this bid bond.

IN TESTIMONY WHEREOF, the said Principal and Surety have caused this bond to be signed by their duly-authorized representatives and have caused their names and corporate seals to be affixed on this form on the respective dates of their signatures.

Surety Principal

Print Surety Name Print Name

Agent's Signature and date, enclose a valid Power of Attorney Signature and date of Authorized Representative

Attachment A1.5

Revised Plans

SUMMARY OF QUANTITIES

ITEM #	ITEM DESCRIPTION	UNIT	QUANT.
90060A	BRIDGE PLAQUE	EA.	1 **
201013A	REMOVAL OF EXISTING FENCE	LF	35
202002	EARTH EXCAVATION	C.Y.	140
202101	ROCK EXCAVATION	C.Y.	15
202202	CHANNEL EXCAVATION-EARTH	C.Y.	800
202491A	REMOVAL OF GRANITE STONE CURBING	L.F.	485
202529	CUT BITUMINOUS CONCRETE PAVEMENT	L.F.	300
204001	COFFERDAM AND DEWATERING	LF	1250
205004	ROCK IN TRENCH EXCAVATION 0'-10' DEEP	C.Y.	150
212000	SUBBASE	C.Y.	40
303050A	CONCRETE PAVER ON 4" CONCRETE BASE SLAB	SF	700
402903A	BRICK PAVING	S.F.	7600 **
406170	HMA S1	TON	125
406171	HMA S0.5	TON	180
406172	HMA S0.375	TON	80
406236	MATERIAL FOR TACK COAT	GAL.	100
406272A	MILLING OF HOT MIX ASPHALT (HMA) - 0-4 INCHES	S.Y.	1100
507006	TYPE "C" CATCH BASIN TOP	EA.	4
507701	RESET TYPE "C" CATCH BASIN	EA.	4
511203A	POLYVINYL CHLORIDE PLASTIC PIPE WEEPHOLES	EA.	5
511211A	CONSTRUCT WEEP DRAINS	EA.	9
514981A	PRECAST CONCRETE ARCHITECTURAL PANELS (SITE NO. 1)	L.S.	1 **
520036A	ASPHALTIC PLUG EXPANSION JOINT SYSTEM	L.F.	80
601196A	VARIABLE DEPTH PATCH	C.F.	5000
601201	CLASS "F" CONCRETE	C.Y.	450
601231A	LIGHTWEIGHT CONCRETE	C.Y.	400 **
601418A	BLAST CLEAN EXISTING CONCRETE	S.F.	5000 **
602002	DEFORMED STEEL BARS	LB.	13000
602006	DEFORMED STEEL BARS-EPOXY COATED	LB.	35000
602890	DOWEL BAR SPlicer SYSTEM	EA.	4700
602910A	DRILLING HOLES AND GROUTING DOWELS	EA.	550
603736A	SPECIAL PAINTING TREATMENT	S.F.	3200 **
603893A	TEMPORARY SLAB SUPPORT	L.F.	400
605000A	DIMENSION STONE MASONRY	S.Y.	3
605001A	BLOCK STONE MASONRY	E.A.	4.0 **
609030A	REPOINT MORTAR JOINTS	L.F.	700.0 **
651012	18" R.C. PIPE	L.F.	20
703010A	STANDARD RIPRAP	TON	90
703029A	ROUNDED STONE RIPRAP	TON	1500
707001	MEMBRANE WATERPROOFING (WOVEN GLASS FABRIC)	S.Y.	850
755009	GEOTEXTILE	S.Y.	400
811001	CONCRETE CURBING	L.F.	25
813001	5" GRANITE STONE CURBING	L.F.	100
813011	5" GRANITE CURVED STONE CURBING	L.F.	45
814002	RESET GRANITE STONE CURBING	L.F.	15
818022A	COLOR ADDITIVE FOR CONCRETE	S.F.	3200 **
822001A	TEMPORARY PRECAST CONCRETE BARRIER CURB	L.F.	150
822005A	TEMPORARY PRECAST CONCRETE BARRIER CURB (STRUCTURE)	L.F.	180
822006A	RELOCATED TEMPORARY PRECAST CONCRETE BARRIER CURB (STRUCTURE)	L.F.	180
904136A	REMOVAL OF EXISTING METAL BRIDGE RAIL	L.F.	360
914017A	ORNAMENTAL METAL FENCE (5' HIGH)	LF	52
921001A	CONCRETE SIDEWALK	S.F.	2000
921036A	RETRO-FIT DETECTABLE WARNING STRIP	EA	4 **
944000	FURNISHING AND PLACING TOPSOIL	SY	8 **
949000	WOOD CHIP MULCH	SY	12 **
949039	BETULA NIGRA "HERITAGE" HERITAGE RIVER BIRCH 2 1/2" - 3" cal. B.B.	EA	2
949071	PYRUS CALLERYANA "CLEVELAND SELECT" CLEVELAND SELECT FLOWERING PEAR 2"-2 1/2" cal. B.B.	EA	2
949243	SPIRAEAxBUMALDA 'ANTHONY WATERER' ANTHONY WATERER SPIREA 15"-18" ht. #2CONT.	EA	33 **
949255	JUNIPERUS HORIZONTALIS 'BLUE CHIP' BLUE CHIP JUNIPER 15"-18" sprd. #3CONT.	EA	31 **
949670	THUJA OCCIDENTALIS 'NIGRA' DARK GREEN ARBOVITAE 3'-4' ht. B.B.	EA	10 **
949731	TAXUS X MEDIA 'WARDII' COMPACT YE W 18"-24" ht. B.B.	EA	27 **
950005	TURF ESTABLISHMENT	SY	8 **
952100A	PLANTER - CONCRETE	EA.	6 **
969060A	CONSTRUCTION FIELD OFFICE, SMALL	MO.	20
970006A	TRAFFICPERSON (MUNICIPAL POLICE OFFICER)	\$/hr	76 *
971001A	MAINTENANCE AND PROTECTION OF TRAFFIC	L.S.	1
974001A	REMOVAL OF EXISTING MASONRY	C.Y.	750
975002A	MOBILIZATION	L.S.	1
978002	TRAFFIC DRUM	EA.	10
979003	CONSTRUCTION BARRICADE TYPE III	EA.	15
1001002A	TRENCHING AND BACKFILLING (TYPE I)	L.F.	710
1001003A	TRENCHING AND BACKFILLING (TYPE II)	L.F.	125
1001004A	TRENCHING AND BACKFILLING (TYPE III)	L.F.	130
1003595A	DECORATIVE LIGHT POLE AND LIGHT FIXTURE	EA	7 **

SUMMARY OF QUANTITIES

ITEM #	ITEM DESCRIPTION	UNIT	QUANT.
1003906A	REMOVE LIGHT STANDARD	EA.	2 **
1008138A	4" POLYVINYL CHLORIDE CONDUIT IN STRUCTURE	L.F.	380
1008143A	4" POLYVINYL CHLORIDE CONDUIT UNDER ROADWAY	L.F.	950
1008144A	5" POLYVINYL CHLORIDE CONDUIT UNDER ROADWAY	L.F.	1110
1008215A	2" RIGID METAL CONDUIT UNDER ROADWAY	L.F.	200
1008315A	2" RIGID METAL CONDUIT IN STRUCTURE	L.F.	340
1008870A	5" FIBERGLASS CONDUIT - HEAVY WALL	L.F.	1520
1009005	8" X 8" X 8" CAST IRON JUNCTION BOX	EA.	4
1010917A	INSTALL PRECAST CONCRETE MANHOLE	EA.	2
1108724A	PHASE SELECTOR	EA.	1
1112410A	DETECTOR (TYPE A)	EA.	1
1112470A	PRE-EMPTION SYSTEM CHASSIS	EA.	1
1113550A	DETECTOR CABLE (OPTICAL)	L.F.	500
1116100A	INTERNALLY ILLUMINATED SIGN (LED)	EA.	1
1118051A	TEMPORARY SIGNALIZATION (SITE 1)	L.S.	1
1206013A	REMOVAL OF EXISTING SIGNING	L.S.	1
1208928	SIGN FACE - SHEET ALUMINUM (TYPE III REFLECTIVE SHEETING)	S.F.	80
1208997A	ORNAMENTAL SIGN POST	EA.	4 **
1209005	PAINTED PAVEMENT MARKINGS (4") (WHITE)	L.F.	600
1209007	PAINTED PAVEMENT MARKINGS (4") (YELLOW)	L.F.	600
1209009	PAINTED PAVEMENT MARKINGS (12") (WHITE)	L.F.	25
1209401	PAINTED LEGEND, ARROWS AND MARKINGS	S.F.	150
1210101	4" WHITE EPOXY RESIN PAVEMENT MARKINGS	L.F.	100
1210102	4" YELLOW EPOXY RESIN PAVEMENT MARKINGS	L.F.	570
1210104	8" WHITE EPOXY RESIN PAVEMENT MARKINGS	L.F.	110
1210105	EPOXY RESIN PAVEMENT MARKINGS, SYMBOLS AND LEGENDS	S.F.	1200
1210106	12" WHITE EPOXY RESIN PAVEMENT MARKINGS	L.F.	70
1211001	REMOVAL OF PAVEMENT MARKINGS	S.F.	170
1211003	REMOVAL OF PLASTIC PAVEMENT MARKINGS	S.F.	400 **
1212001	TEMPORARY PLASTIC PAVEMENT MARKING TAPE (4") (YELLOW)	L.F.	600 **
1212002	TEMPORARY PLASTIC PAVEMENT MARKING TAPE (4") (WHITE)	L.F.	600 **
1212010	TEMPORARY PLASTIC PAVEMENT MARKING TAPE (12") (WHITE)	L.F.	25 **
1212017	TEMPORARY PLASTIC LEGEND ARROWS AND MARKINGS	S.F.	150 **
1220027	CONSTRUCTION SIGNS	S.F.	500
1504040A	TEMPORARY SUPPORT FOR EXISTING TELEPHONE DUCTS	L.S.	1
1807016A	TEMPORARY IMPACT ATTENUATION SYSTEM TYPE A (TL-2)	EA.	2
1807101	RELOCATION OF TEMPORARY IMPACT ATTENUATION SYSTEM TYPE A	EA.	2

* AN HOURLY RATE HAS BEEN INSERTED FOR BIDDING PURPOSES, HOWEVER THIS ITEM IS TO BE PAID BY THE ACTUAL COST UP TO THE NUMBER OF HOURS BID AS DESCRIBED IN THE SPECIFICATIONS.

** BOROUGH MAY CONSIDER ELIMINATING ANY ITEM FROM THE CONTRACT OR USING OTHER BID ITEMS FOR THE WORK AT THEIR DISCRETION. NO COMPENSATION WILL BE MADE TO THE CONTRACTOR FOR ELIMINATING ANY ITEMS. SPECIFICALLY THE ITEMS NOTED MAY BE ELIMINATED.

NOTE: THIS IS A REHABILITATION PROJECT AND QUANTITIES MAY VARY SIGNIFICANTLY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR WILL BE PAID FOR THE ACTUAL QUANTITY OF ITEMS INSTALLED. NO ADJUSTMENT IN UNIT PRICES WILL BE MADE FOR QUANTITIES LESS THAN OR EXCEEDING THOSE SHOWN.

GENERAL NOTES:

- DESIGN SPECIFICATIONS: ALL ROAD, DRAINAGE AND STRUCTURAL WORK (AND APPURTENANT WORK) SHALL BE PERFORMED IN ACCORDANCE WITH THE TECHNICAL REQUIREMENTS, INCLUDING MATERIALS AND METHODS, OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION, FORM 816, 2004 (INCLUDING ADDENDUMS AND SUPPLEMENTALS) UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.
- CTDOT STANDARD SHEETS: THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL OF THE CONNECTICUT DEPARTMENT OF TRANSPORTATION (CTDOT) STANDARD SHEETS THAT PERTAIN TO ANY OF THE WORK ON THIS PROJECT. THESE SHEETS CAN BE OBTAINED DIRECTLY FROM THE DEPARTMENT AND/OR DOWNLOADED FROM THE DEPARTMENT'S WEBSITE AT WWW.CT.GOV/DOT.
- DATUM: HORIZONTAL CONTROL - NAD 83
VERTICAL CONTROL - NAVD 88
- DESIGN SPEED: 25 MPH.
- MUTCD: ALL PERMANENT AND TEMPORARY TRAFFIC CONTROL DEVICES INCLUDING TRAFFIC SIGNS, CONSTRUCTION SIGNS, PAVEMENT MARKINGS, AND CHANNELIZATION DEVICES SHALL MEET THE REQUIREMENTS OF, AND BE INSTALLED/PLACED IN ACCORDANCE WITH, THE DIMENSIONS AND LOCATIONS SPECIFIED IN THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
- REMOVED MATERIALS: THE BOROUGH OF NAUGATUCK WILL BE PROVIDED THE OPTION OF RETAINING THE POSSESSION OF ALL MATERIALS REMOVED OR EXCAVATED IN THE COURSE OF EXECUTING THIS PROJECT. ANY MATERIALS RETAINED BY THE BOROUGH SHALL BE DELIVERED TO A SITE WITHIN BOROUGH LIMITS AS DESIGNATED BY THE BOROUGH AT NO ADDITIONAL COST TO THE BOROUGH OF NAUGATUCK. ALL MATERIALS NOT RETAINED BY THE BOROUGH SHALL BE PROPERLY DISPOSED OF AT NO ADDITIONAL COST TO THE BOROUGH OF NAUGATUCK.
- EXCAVATED MATERIALS: ANY EXCAVATED MATERIALS DEEMED BY THE ENGINEER AS BEING SUITABLE FOR RE-USE SHALL BE STOCKPILED ON THE JOB SITE AS DIRECTED BY THE ENGINEER FOR FUTURE USE AS BACKFILL. NO ADDITIONAL PAYMENT WILL BE MADE FOR STOCKPILING MATERIAL, FOR RE-USE AS BACKFILL, OR FOR THE REMOVAL OF SURPLUS STOCKPILED MATERIAL NOT UTILIZED ON THE PROJECT. THE COST OF STOCKPILING IS TO BE INCLUDED IN THE "STRUCTURE EXCAVATION" EXCAVATION ITEMS.
- PAY ITEMS: TECHNICAL SPECIFICATIONS SHALL BE IN ACCORDANCE WITH STATE OF CONNECTICUT FORM 816 (SEE NOTE 1). SOME OF THESE TECHNICAL ITEMS HAVE BEEN COMBINED FOR PAYMENT PURPOSES, AND THEREFORE, PAYMENT WILL ONLY BE MADE ACCORDING TO THE PAY ITEMS LISTED IN THE BID DOCUMENT FORMS PROVIDED. ALL MATERIALS, TOOLS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THE WORK AS DETAILED ON THESE PLANS SHALL BE INCLUDED IN CONTRACT PAY ITEMS. ANY WORK NOT SPECIFICALLY LABELED BUT NECESSARY TO COMPLETE THE WORK SHALL BE CONSIDERED INCIDENTAL.
- 'CALL BEFORE YOU DIG': EXISTING STORM DRAIN, SANITARY SEWER, GAS, ELECTRIC, TELECOMMUNICATIONS AND OTHER UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ON THE PLANS. THE CONTRACTOR SHALL CONTACT 'CALL BEFORE YOU DIG' AT 811 (800-922-4455) 72 HOURS PRIOR TO BEGINNING ANY SUBSURFACE CONSTRUCTION ACTIVITIES TO DETERMINE THE LOCATIONS OF THESE AND ANY OTHER BURIED UTILITIES NOT SHOWN ON THE PLANS.
- DRAINAGE STRUCTURES: STATIONS AND TOP OF FRAME (TF) ELEVATIONS ARE MEASURED FROM THE LONGITUDINAL CENTER OF EACH STRUCTURE AT THE FACE OF CURB OR EDGE OF PAVEMENT, WHICHEVER APPLIES.
- UTILITIES: UTILITY DESIGN HAS BEEN COORDINATED WITH THE RESPECTIVE UTILITY COMPANIES FOR TELEPHONE, GAS, ELECTRIC, AND CABLE. THE CONTRACTOR SHALL UTILIZE THE FOLLOWING CONTACTS WHEN DIRECTED TO CONTACT UTILITIES:

FRONTIER COMMUNICATIONS - TELEPHONE
TOM DELORENZO
(203) 238-5202
OR
GLEN MC CLOUD
(203) 575-6703

EVERSOURCE ENERGY
ROB PANTALONE - GAS
(203) 596-3020
BRIAN MORGAN - ELECTRIC
(203) 597-4233

COMCAST - CABLE
DAVE GERRISH
(203) 732-0146 EXT. 73801
- EXCAVATION: FINAL EXCAVATION LIMITS SHALL BE DETERMINED IN THE FIELD, BY APPROVAL OF THE ENGINEER. WHERE PAYMENT IS NOT OTHERWISE SPECIFIED, PAYMENT SHALL BE UNDER THE "EARTH EXCAVATION", "ROCK EXCAVATION" OR "REMOVE EXISTING MASONRY" ITEMS, AS APPROVED BY THE ENGINEER.

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1	2/5/16	REVISED NOTE	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.
			Plotted Date: 2/2/2016

DESIGNER/DRAFTER: JSP
CHECKED BY: RJF
SCALE AS NOTED

BOROUGH OF NAUGATUCK
DEPARTMENT OF PUBLIC WORKS

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SIGNATURE/BLOCK:

CHA
CLOUGH HARBOUR & ASSOCIATES LLP
2130 Silas Deane Highway, Suite 212, Rocky Hill, CT 06067-2539
Tel: (860) 251-0007 • www.chaengineers.com

PROJECT TITLE:
MAPLE STREET OVER NAUGATUCK RIVER

TOWN: NAUGATUCK
PROJECT NO. 9087-4000
DRAWING TITLE: GENERAL NOTES AND QUANTITIES
SHEET NO. 2 of 27