

**Addendum #1**  
**2020 Roadway Improvement Project**  
**“Cambridge Drive Neighborhood”**  
**Bid No. 20-15**  
**Town of East Hartford**

**February 28, 2020**

The following summarizes the revisions to the Bid Documents included in Addendum #1 for the 2020 Roadway Improvement Project (Bid No. 20-15).

- Replace page 3 of Project Manual to reflect revisions to the Table of Contents
- Replace all Bid Forms in the Project Manual to reflect the following changes:

The addition of the following items:

- Item #201009A – Removal of Tree – 12” To 24” Caliper
- Item #201010A – Removal of Tree – Over 24” Caliper

Revised quantities for the following items:

- Item No. 404100A – Partial Depth Patch Repair (Local)
- Item No. 404200A – Full Depth Patch Repair (Local)
- Item No. 404300A – Base Patch Repair
- Item No. 653001 – Clean Existing Catch Basin
- Item No. 813001A – 5” Granite Stone Curbing
- Item No. 813011A – 5” Granite Curved Stone Curbing
- Item No. 913903 – 10’ Chain Link Double Gate 4’ High
- Item No. 921005A – Concrete Sidewalk Ramp
- Item No. 969062A – Construction Field Office, Medium

- Replace page 29 of the Project Manual to reflect revision to the contract completion date.
- Replace page 137 of the Project Manual to reflect revisions to the Special Provisions Index.
- Replace page 154A of the Project Manual to reflect the addition of Item #201009A – Removal of Tree – 12” To 24” Caliper and Item #201010A – Removal of Tree – Over 24” Caliper.
- Replace page 163 of the Project Manual to reflect revision to the basis of payment for Item #202530 – Remove Existing Hot Mix Asphalt Pavement.
- Replace page 249 of the Project Manual to reflect revision material source for Item #944001A – Furnish and Placing Topsoil.
- Replace plan sheet 002 of 294 to reflect the revision of General Construction Note #15.

- Replace plan sheet 003 of 294 to reflect the following changes:
  - The addition of the following items:
    - Item #201009A – Removal of Tree – 12" To 24" Caliper
    - Item #201010A – Removal of Tree – Over 24" Caliper
  - Revised quantities for the following items:
    - Item No. 404100A – Partial Depth Patch Repair (Local)
    - Item No. 404200A – Full Depth Patch Repair (Local)
    - Item No. 404300A – Base Patch Repair
    - Item No. 653001 – Clean Existing Catch Basin
  
- Replace plan sheet 004 of 294 to reflect revised quantities for the following items:
  - Item No. 813001A – 5" Granite Stone Curbing
  - Item No. 813011A – 5" Granite Curved Stone Curbing
  - Item No. 913903 – 10' Chain Link Double Gate 4' High
  - Item No. 921005A – Concrete Sidewalk Ramp
  - Item No. 969062A – Construction Field Office, Medium
  
- Replace plan sheet 007 of 294 to reflect the addition of Gravel Driveway and Bituminous Concrete Snow Shelf details.
  
- Replace plan sheet 069 of 294 to reflect revisions to sidewalk ramp layout, curb layout, granite curb table, and calloffs.
  
- Replace plan sheet 070 of 294 to reflect revisions to sidewalk ramp layout.
  
- Replace plan sheet 072 of 294 to reflect revisions to sidewalk ramp layout, curb layout, granite curb table, and calloffs.
  
- Replace plan sheet 077 of 294 to reflect the addition of calloffs for tree removal.
  
- Replace plan sheet 078 of 294 to reflect revised sidewalk ramp layout and curb layout.
  
- Replace plan sheet 079 of 294 to reflect a revised rim elevation.
  
- Replace plan sheet 089 of 294 to reflect revised sidewalk ramp layout and curb layout.
  
- Replace plan sheet 096 of 294 to reflect revised sidewalk ramp layout.
  
- Replace plan sheet 098 of 294 to reflect a revised rim elevation.
  
- Replace plan sheet 101 of 294 to reflect revised sidewalk ramp layout.
  
- Replace plan sheet 114 of 294 to reflect revised catch basin cleaning.

- Replace plan sheet 115 of 294 to reflect revised catch basin cleaning.
- Replace plan sheet 116 of 294 to reflect revised catch basin cleaning.
- Replace plan sheet 117 of 294 to reflect revised catch basin cleaning.
- Replace plan sheet 118 of 294 to reflect revised catch basin cleaning.
- Replace plan sheet 119 of 294 to reflect revised catch basin cleaning.

**Revised Bid Documents:**

- Replace pages 3, 18-28, 29, 137, 163 and 249 of the Project Manual
- Insert page 28A into the Project Manual
- Insert page 154A into the Project Manual
- Replace Plan Sheet 002 of 294
- Replace Plan Sheet 003 of 294
- Replace Plan Sheet 004 of 294
- Replace Plan Sheet 007 of 294
- Replace Plan Sheet 069 of 294
- Replace Plan Sheet 070 of 294
- Replace Plan Sheet 077 of 294
- Replace Plan Sheet 078 of 294
- Replace Plan Sheet 079 of 294
- Replace Plan Sheet 089 of 294
- Replace Plan Sheet 096 of 294
- Replace Plan Sheet 098 of 294
- Replace Plan Sheet 101 of 294
- Replace Plan Sheet 114 of 294
- Replace Plan Sheet 115 of 294
- Replace Plan Sheet 116 of 294
- Replace Plan Sheet 117 of 294
- Replace Plan Sheet 118 of 294
- Replace Plan Sheet 119 of 294

**End of Addendum #1**

NOTICE TO CONTRACTOR - SAWCUTS ..... 145

NOTICE TO CONTRACTOR - AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE ..... 145

NOTICE TO CONTRACTOR - QUALITY OF WORK ..... 145

NOTICE TO CONTRACTOR - TREE REMOVAL..... 145

NOTICE TO CONTRACTOR – SELECTIVE CLEARING AND THINNING ..... 146

NOTICE TO CONTRACTOR - TEMPORARY NO PARKING AREAS ..... 146

NOTICE TO CONTRACTOR - CT TRANSIT ..... 146

NOTICE TO CONTRACTOR - POLICE SERVICES ..... 146

NOTICE TO CONTRACTOR – MATERIAL TRANSFER VEHICLE..... 146

NOTICE TO CONTRACTOR – TEMPORARY PAVEMENT MARKINGS ..... 147

NOTICE TO CONTRACTOR – REMOVAL OF EXISTING SIGNING ..... 147

NOTICE TO CONTRACTOR – PLATES..... 147

NOTICE TO CONTRACTOR – WARM MIX ASPHALT ..... 147

**SPECIAL PROVISIONS (MODIFICATIONS TO CONNDOT FORM 817)**

SECTION 1.05 - CONTROL OF THE WORK ..... 148

SECTION 1.07 - LEGAL RELATIONS AND RESPONSIBILITIES ..... 151

SECTION 1.08 - PROSECUTION AND PROGRESS ..... 153

SECTION 2.01 - CLEARING AND GRUBBING..... 154

**ITEM #201009A – REMOVAL OF TREE – 12” TO 24” CALIPER..... 154A**

**ITEM #201010A – REMOVAL OF TREE – OVER 24” CALIPER ..... 154A**

ITEM #202452A – TEST PIT ..... 155

ITEM #202529A – CUT BITUMINOUS CONCRETE PAVEMENT ..... 157

ITEM #202530A – REMOVE EXISTING HOT MIX ASPHALT PAVEMENT ..... 158

ITEM #202559A – REMOVE AND RESET SURVEY MONUMENT ..... 164

ITEM #211000A – ANTI-TRACKING PAD ..... 165

ITEM #219011A – SEDIMENT CONTROL SYSTEM AT CATCH BASIN..... 166

SECTION 2.86 - DRAINAGE TRENCH EXCAVATION, ROCK IN DRAINAGE TRENCH EXCAVATION..... 167

ITEM #304010A – PROCESSED AGGREGATE FINE GRADING..... 171

ITEM #304500A – ROADWAY AS-BUILT SURVEY ..... 172

ITEM #403161A – HOT MIX ASPHALT LEVELING/SHIM COURSE..... 176

ITEM #404100A – PARTIAL-DEPTH PATCH REPAIR (LOCAL)..... 179

ITEM #404200A – FULL-DEPTH PATCH REPAIR (LOCAL)..... 182

ITEM #404300A – BASE PATCH REPAIR ..... 186

SECTION 4.06 - BITUMINOUS CONCRETE ..... 188

ITEM #406200A – CLEANING AND SEALING CRACKS ..... 209

ITEM #406267A – MILLING HMA (0" 4")..... 215

ITEM #406999A - ASPHALT ADJUSTMENT COST ..... 221

ITEM #507791A – REBUILD CATCH BASIN ..... 223

ITEM #586651A – RESET MANHOLE (STORM) ..... 224

SECTION 5.86 - CATCH BASINS, MANHOLES AND DROP INLETS..... 225

ITEM #651239A – CHECKMATE ULTRAFLEX SLIP-IN INLINE CHECK VALVE ..... 229

ITEM #651289A – GROUT FILL STORM PIPE..... 232

ITEM #686200.10A – 10” POLYVINYL CHLORIDE PIPE – 0’ -10’ DEEP ..... 233

ITEM #686200.12A – 12” POLYVINYL CHLORIDE PIPE – 0’ -10’ DEEP ..... 233

ITEM #686716.10A – 10” DUCTILE IRON PIPE – 0’ – 10’ DEEP..... 234

ITEM #686719.12A – 12” DUCTILE IRON PIPE – 0’ – 10’ DEEP..... 234

SECTION 6.86 - DRAINAGE PIPES, DRAINAGE PIPE ENDS..... 235

ITEM #813001A – 5” GRANITE STONE CURBING ..... 239

ITEM #813011A – 5” GRANITE CURVED STONE CURBING..... 239

ITEM #815000A – BITUMINOUS CONCRETE LIP CURBING – 5” ..... 240

ITEM #815002A – BITUMINOUS CONCRETE LIP CURBING – 6” ..... 240

ITEM #815010A – BITUMINOUS CONCRETE BERM..... 240

ITEM #906200A – RESET ORNAMENTAL WOOD FENCE..... 241

ITEM #906201A – RESET PICKET FENCE ..... 241

ITEM #906204A – RESET SPLIT RAIL FENCE ..... 241

ITEM #906213A – RESET VINYL PRIVACY FENCE ..... 241

**Bid Proposal Sheets - Addendum #1**  
**Project: 2020 Roadway Improvement Project**  
**Location: CAMBRIDGE DRIVE NEIGHBORHOOD**



Engineering Department  
 Town of East Hartford, Connecticut  
 740 Main Street  
 East Hartford, Connecticut 06108  
 860-291-7380



Prepared By: \_\_\_\_\_  
 Vanasse Hangen Brustlin, Inc.  
 100 Great Meadow Road, Suite 200  
 Wethersfield, Connecticut 06109  
 860-807-4300 Fax 860-372-4570

Item No.	Quantity	Item with Unit Bid Price Written in Words	Unit Price		Amount	
			Dollars	Cents	Dollars	Cents
201009A	2	REMOVAL OF TREE - 12" TO 24" CALIPER at _____ Per Each				
201010A	2	REMOVAL OF TREE - OVER 24" CALIPER at _____ Per Each				
202001	8570	EARTH EXCAVATION at _____ Per Cubic Yard				
202452A	3	TEST PIT at _____ Per Each				
202529A	2550	CUT BITUMINOUS CONCRETE PAVEMENT at _____ Per Linear Foot				
202530A	31000	REMOVE EXISTING HOT MIX ASPHALT PAVEMENT at _____ Per Square Yard				
202559A	2	REMOVE AND RESET SURVEY MONUMENT at _____ Per Each				
205004	235	ROCK IN TRENCH EXCAVATION 0'-10' DEEP at _____ Per Cubic Yard				

**Subtotal This Page:**

--

**Bid Proposal Sheets - Addendum #1**  
**Project: 2020 Roadway Improvement Project**  
**Location: CAMBRIDGE DRIVE NEIGHBORHOOD**



Engineering Department  
 Town of East Hartford, Connecticut  
 740 Main Street  
 East Hartford, Connecticut 06108  
 860-291-7380



Prepared By: \_\_\_\_\_  
 Vanasse Hangen Brustlin, Inc.  
 100 Great Meadow Road, Suite 200  
 Wethersfield, Connecticut 06109  
 860-807-4300 Fax 860-372-4570

Item No.	Quantity	Item with Unit Bid Price Written in Words	Unit Price		Amount	
			Dollars	Cents	Dollars	Cents
209001	20200	FORMATION OF SUBGRADE at _____ Per Square Yard				
211000A	500	ANTI-TRACKING PAD at _____ Per Square Yard				
219001	500	SEDIMENTATION CONTROL SYSTEM at _____ Per Linear Foot				
219011A	116	SEDIMENT CONTROL SYSTEM AT CATCH BASIN at _____ Per Each				
304002	3500	PROCESSED AGGREGATE BASE at _____ Per Cubic Yard				
304010A	1510	PROCESSED AGGREGATE FINE GRADING at _____ Per Ton				
304500A	1	ROADWAY AS-BUILT SURVEY at _____ Per Lump Sum				
403161A	1440	HOT MIX ASPHALT LEVELING/SHIM COURSE at _____ Per Ton				

**Subtotal This Page:**

--

**Bid Proposal Sheets - Addendum #1**

**Project: 2020 Roadway Improvement Project**

**Location: CAMBRIDGE DRIVE NEIGHBORHOOD**



Engineering Department  
 Town of East Hartford, Connecticut  
 740 Main Street  
 East Hartford, Connecticut 06108  
 860-291-7380



Prepared By: \_\_\_\_\_  
 Vanasse Hangen Brustlin, Inc.  
 100 Great Meadow Road, Suite 200  
 Wethersfield, Connecticut 06109  
 860-807-4300 Fax 860-372-4570

Item No.	Quantity	Item with Unit Bid Price Written in Words	Unit Price		Amount	
			Dollars	Cents	Dollars	Cents
404100A	5050	PARTIAL DEPTH PATCH REPAIR (LOCAL) at _____ Per Square Yard				
404200A	2445	FULL DEPTH PATCH REPAIR (LOCAL) at _____ Per Square Yard				
404300A	3100	BASE PATCH REPAIR at _____ Per Square Yard				
406172A	11800	HMA S0.375 at _____ Per Ton				
406200A	44700	CLEANING AND SEALING CRACKS at _____ Per Linear Foot				
406236	7300	MATERIAL FOR TACK COAT at _____ Per Gallon				
406267A	29000	MILLING HMA (0" TO 4") at _____ Per Square Yard				
406999A	50000	ASPHALT ADJUSTMENT COST at Fifty Thousand Dollars and No Cents Estimated			50000	00

**Subtotal This Page:**

--

**Bid Proposal Sheets - Addendum #1**  
**Project: 2020 Roadway Improvement Project**  
**Location: CAMBRIDGE DRIVE NEIGHBORHOOD**



Engineering Department  
 Town of East Hartford, Connecticut  
 740 Main Street  
 East Hartford, Connecticut 06108  
 860-291-7380



Prepared By: \_\_\_\_\_  
 Vanasse Hangen Brustlin, Inc.  
 100 Great Meadow Road, Suite 200  
 Wethersfield, Connecticut 06109  
 860-807-4300 Fax 860-372-4570

Item No.	Quantity	Item with Unit Bid Price Written in Words	Unit Price		Amount	
			Dollars	Cents	Dollars	Cents
507791A	5	REBUILD CATCH BASIN at _____ Per Vertical Linear Foot				
586001.10	69	TYPE "C" CATCH BASIN - 0' -10' DEEP at _____ Per Each				
586040.10	3	TYPE "C-L" CATCH BASIN - 0' -10' DEEP at _____ Per Each				
5861000	2	TYPE 'C-M' CATCH BASIN - 0' - 10' DEEP at _____ Per Each				
5863000.10	8	OFFSET CATCH BASIN - 0'-10' DEEP at _____ Per Each				
586500.10	1	MANHOLE at _____ Per Each				
586651A	62	RESET MANHOLE (STORM) at _____ Per Each				
586700A	30	CONVERT CATCH BASIN TO TYPE "C" CATCH BASIN at _____ Per Each				

**Subtotal This Page:**



**Bid Proposal Sheets - Addendum #1**  
**Project: 2020 Roadway Improvement Project**  
**Location: CAMBRIDGE DRIVE NEIGHBORHOOD**



Engineering Department  
 Town of East Hartford, Connecticut  
 740 Main Street  
 East Hartford, Connecticut 06108  
 860-291-7380



Prepared By: \_\_\_\_\_  
 Vanasse Hangen Brustlin, Inc.  
 100 Great Meadow Road, Suite 200  
 Wethersfield, Connecticut 06109  
 860-807-4300 Fax 860-372-4570

Item No.	Quantity	Item with Unit Bid Price Written in Words	Unit Price		Amount	
			Dollars	Cents	Dollars	Cents
586701A	1	CONVERT CATCH BASIN TO TYPE "C-L" CATCH BASIN at _____ Per Each				
586780A	5	MANHOLE FRAME AND COVER at _____ Per Each				
651239A	1	CHECKMATE ULTRAFLEX SLIP-IN INLINE CHECK VALVE at _____ Per Each				
651289A	10	GROUT FILL STORM PIPE at _____ Per Cubic Yard				
653001	121	CLEAN EXISTING CATCH BASIN at _____ Per Each				
653010	62	CLEAN EXISTING MANHOLE at _____ Per Each				
653100	20700	CLEAN EXISTING CULVERT 12"-42" DIAMETER at _____ Per Linear Foot				
686000.12	50	12" R.C. PIPE - 0' - 10' DEEP at _____ Per Linear Foot				

**Subtotal This Page:**

**Bid Proposal Sheets - Addendum #1**  
**Project: 2020 Roadway Improvement Project**  
**Location: CAMBRIDGE DRIVE NEIGHBORHOOD**



Engineering Department  
 Town of East Hartford, Connecticut  
 740 Main Street  
 East Hartford, Connecticut 06108  
 860-291-7380



Prepared By: \_\_\_\_\_  
 Vanasse Hangen Brustlin, Inc.  
 100 Great Meadow Road, Suite 200  
 Wethersfield, Connecticut 06109  
 860-807-4300 Fax 860-372-4570

Item No.	Quantity	Item with Unit Bid Price Written in Words	Unit Price		Amount	
			Dollars	Cents	Dollars	Cents
686000.18	45	18" R.C. PIPE - 0' - 10' DEEP at _____ Per Linear Foot				
686000.24	50	24" R.C. PIPE - 0' - 10' DEEP at _____ Per Linear Foot				
686002.12	50	12" R.C. PIPE (CLASS V) - 0' - 10' DEEP at _____ Per Linear Foot				
686002.15	50	15" R.C. PIPE (CLASS V) - 0' - 10' DEEP at _____ Per Linear Foot				
686200.10A	550	10" POLYVINYL CHLORIDE PIPE - 0' -10' DEEP at _____ Per Linear Foot				
686200.12A	50	12" POLYVINYL CHLORIDE PIPE - 0' -10' DEEP at _____ Per Linear Foot				
686716.10A	50	10" DUCTILE IRON PIPE - 0' -10' DEEP at _____ Per Linear Foot				
686719.12A	140	12" DUCTILE IRON PIPE - 0' - 10' DEEP at _____ Per Linear Foot				

**Subtotal This Page:**

**Bid Proposal Sheets - Addendum #1**  
**Project: 2020 Roadway Improvement Project**  
**Location: CAMBRIDGE DRIVE NEIGHBORHOOD**



Engineering Department  
 Town of East Hartford, Connecticut  
 740 Main Street  
 East Hartford, Connecticut 06108  
 860-291-7380



Prepared By: \_\_\_\_\_  
 Vanasse Hangen Brustlin, Inc.  
 100 Great Meadow Road, Suite 200  
 Wethersfield, Connecticut 06109  
 860-807-4300 Fax 860-372-4570

Item No.	Quantity	Item with Unit Bid Price Written in Words	Unit Price		Amount	
			Dollars	Cents	Dollars	Cents
813001A	120	5" GRANITE STONE CURBING at _____ Per Linear Foot				
813011A	725	5" GRANITE CURVED STONE CURBING at _____ Per Linear Foot				
815000A	19690	BITUMINOUS CONCRETE LIP CURBING - 5" at _____ Per Linear Foot				
815002A	10190	BITUMINOUS CONCRETE LIP CURBING - 6" at _____ Per Linear Foot				
815010A	4780	BITUMINOUS CONCRETE BERM at _____ Per Linear Foot				
906200A	30	RESET ORNAMENTAL WOOD FENCE at _____ Per Linear Foot				
906201A	30	RESET PICKET FENCE at _____ Per Linear Foot				
906204A	30	RESET SPLIT RAIL FENCE at _____ Per Linear Foot				

**Subtotal This Page:**

--

**Bid Proposal Sheets - Addendum #1**  
**Project: 2020 Roadway Improvement Project**  
**Location: CAMBRIDGE DRIVE NEIGHBORHOOD**



Engineering Department  
 Town of East Hartford, Connecticut  
 740 Main Street  
 East Hartford, Connecticut 06108  
 860-291-7380



Prepared By: \_\_\_\_\_  
 Vanasse Hangen Brustlin, Inc.  
 100 Great Meadow Road, Suite 200  
 Wethersfield, Connecticut 06109  
 860-807-4300 Fax 860-372-4570

Item No.	Quantity	Item with Unit Bid Price Written in Words	Unit Price		Amount	
			Dollars	Cents	Dollars	Cents
906213A	50	RESET VINYL PRIVACY FENCE at _____ Per Linear Foot				
913000	25	REMOVE CHAIN LINK FENCE at _____ Per Linear Foot				
913001	20	4' CHAIN LINK FENCE at _____ Per Linear Foot				
913817A	30	RESET CHAIN LINK FENCE at _____ Per Linear Foot				
913903	1	10' CHAIN LINK DOUBLE GATE 4' HIGH at _____ Per Each				
921001A	3240	CONCRETE SIDEWALK - 5" at _____ Per Square Foot				
921002A	3000	CONCRETE SIDEWALK - 8" at _____ Per Square Foot				
921005A	5960	CONCRETE SIDEWALK RAMP at _____ Per Square Foot				

**Subtotal This Page:**

**Bid Proposal Sheets - Addendum #1**  
**Project: 2020 Roadway Improvement Project**  
**Location: CAMBRIDGE DRIVE NEIGHBORHOOD**



Engineering Department  
 Town of East Hartford, Connecticut  
 740 Main Street  
 East Hartford, Connecticut 06108  
 860-291-7380



Prepared By: \_\_\_\_\_  
 Vanasse Hangen Brustlin, Inc.  
 100 Great Meadow Road, Suite 200  
 Wethersfield, Connecticut 06109  
 860-807-4300 Fax 860-372-4570

Item No.	Quantity	Item with Unit Bid Price Written in Words	Unit Price		Amount	
			Dollars	Cents	Dollars	Cents
921011	330	CONCRETE DRIVEWAY at _____ Per Square Foot				
922500A	170	BITUMINOUS CONCRETE DRIVEWAY (COMMERCIAL) at _____ Per Square Yard				
922501A	4980	BITUMINOUS CONCRETE DRIVEWAY at _____ Per Square Yard				
922511A	110	BITUMINOUS CONCRETE SNOWSHELF at _____ Per Square Yard				
922503A	10	GRAVEL DRIVEWAY at _____ Per Square Yard				
944001A	19240	FURNISHING AND PLACING TOPSOIL at _____ Per Square Yard				
950005A	19240	TURF ESTABLISHMENT at _____ Per Square Yard				
952001A	1	SELECTIVE CLEARING AND THINNING at _____ Per Lump Sum				

**Subtotal This Page:**

**Bid Proposal Sheets - Addendum #1**  
**Project: 2020 Roadway Improvement Project**  
**Location: CAMBRIDGE DRIVE NEIGHBORHOOD**



Engineering Department  
 Town of East Hartford, Connecticut  
 740 Main Street  
 East Hartford, Connecticut 06108  
 860-291-7380



Prepared By: \_\_\_\_\_  
 Vanasse Hangen Brustlin, Inc.  
 100 Great Meadow Road, Suite 200  
 Wethersfield, Connecticut 06109  
 860-807-4300 Fax 860-372-4570

Item No.	Quantity	Item with Unit Bid Price Written in Words	Unit Price		Amount	
			Dollars	Cents	Dollars	Cents
969062A	8	CONSTRUCTION FIELD OFFICE, MEDIUM at _____ Per Month				
970006A	30000	TRAFFICPERSON (TOWN POLICE OFFICER) at Thirty Thousand Dollars and No Cents Estimated			30000	00
970007A	4850	TRAFFICPERSON (UNIFORMED FLAGGER) at _____ Per Hour				
971001A	1	MAINTENANCE AND PROTECTION OF TRAFFIC at _____ Per Lump Sum				
975002	1	MOBILIZATION at _____ Per Lump Sum				
980001	1	CONSTRUCTION STAKING at _____ Per Lump Sum				
1206013	1	REMOVAL OF EXISTING SIGNING at _____ Per Lump Sum				
1206092A	42	RESET SIGN at _____ Per Each				

**Subtotal This Page:**

--

**Bid Proposal Sheets - Addendum #1**  
**Project: 2020 Roadway Improvement Project**  
**Location: CAMBRIDGE DRIVE NEIGHBORHOOD**



Engineering Department  
 Town of East Hartford, Connecticut  
 740 Main Street  
 East Hartford, Connecticut 06108  
 860-291-7380



Prepared By: \_\_\_\_\_  
 Vanasse Hangen Brustlin, Inc.  
 100 Great Meadow Road, Suite 200  
 Wethersfield, Connecticut 06109  
 860-807-4300 Fax 860-372-4570

Item No.	Quantity	Item with Unit Bid Price Written in Words	Unit Price		Amount	
			Dollars	Cents	Dollars	Cents
1208929A	57	STREET IDENTIFICATION SIGN at _____ Per Square Foot				
1208931A	400	SIGN FACE - SHEET ALUMINUM - TYPE IX RETROREFLECTIVE SHEETING at _____ Per Square Foot				
1210101	50	4" WHITE EPOXY RESIN PAVEMENT MARKINGS at _____ Per Linear Foot				
1210102	18680	4" YELLOW EPOXY RESIN PAVEMENT MARKINGS at _____ Per Linear Foot				
1210105	1250	EPOXY RESIN PAVEMENT MARKINGS, SYMBOLS AND LEGENDS at _____ Per Square Foot				
1302060A	57	ADJUST GATE BOX (WATER) at _____ Per Each				
1302062A	26	ADJUST GATE BOX (GAS) at _____ Per Each				
1403010A	5	MANHOLE FRAME AND COVER (SANITARY SEWER) at _____ Per Each				

**Subtotal This Page:**

--

**Bid Proposal Sheets - Addendum #1**  
**Project: 2020 Roadway Improvement Project**  
**Location: CAMBRIDGE DRIVE NEIGHBORHOOD**



Engineering Department  
 Town of East Hartford, Connecticut  
 740 Main Street  
 East Hartford, Connecticut 06108  
 860-291-7380



Prepared By: \_\_\_\_\_  
 Vanasse Hangen Brustlin, Inc.  
 100 Great Meadow Road, Suite 200  
 Wethersfield, Connecticut 06109  
 860-807-4300 Fax 860-372-4570

Item No.	Quantity	Item with Unit Bid Price Written in Words	Unit Price		Amount	
			Dollars	Cents	Dollars	Cents
1403501A	93	RESET MANHOLE (SANITARY SEWER) at _____ Per Each				

**Subtotal This Page:**



Company Name: \_\_\_\_\_

TOWN OF EAST HARTFORD  
BID PROPOSAL SHEET  
2020 ROADWAY IMPROVEMENT PROJECT  
Bid No. 20-15

Bidder will complete the Work in accordance with the Contract Documents for the following, all inclusive price:

<b>Grand Total of All Bid Items</b>	_____ (words)
	\$ _____
	(numerals)

- A. The undersigned understands that there may be changes, omissions, or modification in the work, and that appropriate adjustments will be made to the Contract price in accordance with the Contract Documents. The undersigned understands that the Owner reserves the right to accept or reject any or all bids, and to waive all formalities, any irregularities, and accept the Bid deemed to be in the Owner's best interest.
- B. Bid prices shall not include any sales, excise or other taxes for which the Owner is not liable.
- C. Town of East Hartford is the awarding authority. The Bidder agrees to hold the above pricing for sixty (60) days, unless extended by mutual consent.
- D. The Bidder hereby agrees to commence Work under this Contract within ten (10) days of written Notice to Proceed from the Town, and to **substantially** complete the Work of all base bid items **by November 1, 2020**. The Bidder further agrees to pay as liquidated damages, the sum of FIVE HUNDRED DOLLARS (\$500.00) for each consecutive calendar day beyond the date of **substantial** completion. Liquidated damages are not intended as a penalty but rather shall be construed as a best estimate of damages which the Town will suffer due to Bidder's refusal, failure or neglect to perform pursuant to his Bid and Contract Documents.
- E. The Bid security in the sum of: 5% OF TOTAL BID is to become the property of the Town in the event the above forms are not executed within the time set forth above, as liquidated damages, and not as a penalty for the delay and additional expense to the Town caused thereby.

**SPECIAL PROVISIONS INDEX**

SCOPE OF WORK ..... 139

WORK SCHEDULE ..... 140

NOTICE TO CONTRACTOR – RESOLUTION REQUIREMENTS ..... 141

NOTICE TO CONTRACTOR - INFORMATION AVAILABLE TO BIDDERS ..... 141

NOTICE TO CONTRACTOR – SIDEWALKS ..... 141

NOTICE TO CONTRACTOR - COORDINATION OF WORK ..... 141

NOTICE TO CONTRACTOR – CONSTRUCTION STAGING AREA ..... 141

NOTICE TO CONTRACTOR - FINAL ROADWAY GRADES ..... 142

NOTICE TO CONTRACTOR - DISPOSAL OF SURPLUS MATERIALS ..... 142

NOTICE TO CONTRACTOR - METROPOLITAN DISTRICT COMMISSION (MDC) POLICIES CONCERNING THE USE OF MDC MATERIALS ..... 142

NOTICE TO CONTRACTOR - SHOP DRAWINGS ..... 143

NOTICE TO CONTRACTOR - REQUEST FOR INFORMATION (RFI) PROCESS ..... 143

NOTICE TO CONTRACTOR - REQUEST FOR CHANGE (RFC) PROCESS ..... 143

NOTICE TO CONTRACTOR - DRAINAGE ..... 144

NOTICE TO CONTRACTOR - DRAINAGE STRUCTURES ..... 144

NOTICE TO CONTRACTOR - SAWCUTS ..... 145

NOTICE TO CONTRACTOR - AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE ..... 145

NOTICE TO CONTRACTOR - QUALITY OF WORK ..... 145

NOTICE TO CONTRACTOR - TREE REMOVAL ..... 145

NOTICE TO CONTRACTOR – SELECTIVE CLEARING AND THINNING ..... 146

NOTICE TO CONTRACTOR - TEMPORARY NO PARKING AREAS ..... 146

NOTICE TO CONTRACTOR - CT TRANSIT ..... 146

NOTICE TO CONTRACTOR - POLICE SERVICES ..... 146

NOTICE TO CONTRACTOR – MATERIAL TRANSFER VEHICLE ..... 146

NOTICE TO CONTRACTOR – TEMPORARY PAVEMENT MARKINGS ..... 147

NOTICE TO CONTRACTOR – REMOVAL OF EXISTING SIGNING ..... 147

NOTICE TO CONTRACTOR – PLATES ..... 147

NOTICE TO CONTRACTOR – WARM MIX ASPHALT ..... 147

SECTION 1.05 - CONTROL OF THE WORK ..... 148

SECTION 1.07 - LEGAL RELATIONS AND RESPONSIBILITIES ..... 151

SECTION 1.08 - PROSECUTION AND PROGRESS ..... 153

SECTION 2.01 - CLEARING AND GRUBBING ..... 154

ITEM #201009A – REMOVAL OF TREE – 12” TO 24” CALIPER ..... 154A

ITEM #201010A – REMOVAL OF TREE – OVER 24” CALIPER ..... 154A

ITEM #202452A – TEST PIT ..... 155

ITEM #202529A – CUT BITUMINOUS CONCRETE PAVEMENT ..... 157

ITEM #202530A – REMOVE EXISTING HOT MIX ASPHALT PAVEMENT ..... 158

ITEM #202559A – REMOVE AND RESET SURVEY MONUMENT ..... 164

ITEM #211000A – ANTI-TRACKING PAD ..... 165

ITEM #219011A – SEDIMENT CONTROL SYSTEM AT CATCH BASIN ..... 166

SECTION 2.86 - DRAINAGE TRENCH EXCAVATION, ROCK IN DRAINAGE TRENCH EXCAVATION ..... 167

ITEM #304010A – PROCESSED AGGREGATE FINE GRADING ..... 171

ITEM #304500A – ROADWAY AS-BUILT SURVEY ..... 172

ITEM #403161A – HOT MIX ASPHALT LEVELING/SHIM COURSE ..... 176

ITEM #404100A – PARTIAL-DEPTH PATCH REPAIR (LOCAL) ..... 179

ITEM #404200A – FULL-DEPTH PATCH REPAIR (LOCAL) ..... 182

ITEM #404300A – BASE PATCH REPAIR ..... 186

SECTION 4.06 - BITUMINOUS CONCRETE ..... 188

ITEM #406200A – CLEANING AND SEALING CRACKS ..... 209

ITEM #406267A – MILLING HMA (0"-4") ..... 215

ITEM #406999A - ASPHALT ADJUSTMENT COST ..... 221

ITEM #507791A – REBUILD CATCH BASIN ..... 223

ITEM #586651A – RESET MANHOLE (STORM) ..... 224

SECTION 5.86 - CATCH BASINS, MANHOLES AND DROP INLETS ..... 225

ITEM #651239A – CHECKMATE ULTRAFLEX SLIP-IN INLINE CHECK VALVE ..... 229

ITEM #651289A – GROUT FILL STORM PIPE ..... 232

ITEM #686200.10A – 10” POLYVINYL CHLORIDE PIPE – 0’ -10’ DEEP ..... 233

**ITEM #201009A – REMOVAL OF TREE – 12” TO 24” CALIPER**  
**ITEM #201010A – REMOVAL OF TREE – OVER 24” CALIPER**

**DESCRIPTION**

This work shall consist of the removal of trees and stumps in accordance with these specifications or as directed by the Engineer. Included in this work shall be the preservation from injury or defacement of vegetation and objects designated to remain.

**CONSTRUCTION METHODS**

The Contractor shall mark all trees to be removed in accordance with the plans and these specifications. The Engineer shall have 7 days to field review the markings and make any adjustments prior to the start of the tree removal operation. Trees designated to be removed shall be cut off and stumps removed to a depth of not less than 12 inches below the graded surface. Within the fill lines where an embankment is to be made not more than 5 feet deep, trees, stumps, roots, etc., shall be removed. Where the embankments to be made exceed 5 feet deep, trees, stumps, roots, etc., shall be cut off to within 6 inches of the ground surface.

Prior to tree removal operations, a meeting must be held. Those attending the meeting should include the Contractor, the Engineer, and local tree warden or equivalent. All issues shall be resolved to the satisfaction of the Engineer before any trees are cut. All trees scheduled to be removed outside of the proposed gutter or curb lines shall be visibly marked or flagged by the Contractor at least seven days prior to cutting of such trees. The Engineer will inspect the trees marked within 7 days and verify the ones to be removed prior to the Contractor proceeding with his cutting operation.

The Contractor shall dispose of all such trees and stumps in a satisfactory manner and shall remove all rubbish and refuse from within the project area.

All excavations made below subgrade surface by the removal of trees and stumps shall be filled with suitable material, which shall be compacted thoroughly in accordance with the provisions governing formation of embankments.

**METHOD OF MEASUREMENT**

Removal of Tree of the caliper specified will be measured for payment by the number of each accepted by the Engineer.

**BASIS OF PAYMENT**

This work will be paid for at the contract unit price per each for “Removal of Tree – 12” to 24” Caliper”, and “Removal of Tree – Over 24” Caliper”, completed in place and accepted, which price shall include all equipment, tools, disposal and labor incidental to the completion of this item.

<b><u>ITEM NO.</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>UNIT</u></b>
ITEM # 201009A	REMOVAL OF TREE – 12” TO 24” CALIPER	EA.
ITEM # 201010A	REMOVAL OF TREE – OVER 24” CALIPER	EA.

Special Provisions		ITEM #201009A ITEM #201010A
--------------------	--	--------------------------------

of linear feet of Cut Bituminous Concrete Pavement completed.

**BASIS OF PAYMENT**

The accepted quantity of Remove Existing Hot Mix Asphalt Pavement will be paid for at the contract unit price bid per square yard. This price shall include all compensation for removal, spreading, grading, compacting, maintenance of the roadway base, and dust control. The unit price shall also include full compensation for all labor, tools, equipment, materials, **removal of existing bituminous concrete curbing**, disposal of HMA pavement, excess existing base material and unsuitable materials, cobble removal, transitions, and all incidental work necessary to complete the work as specified.

The cost to establish existing and proposed lines and grades shall be included in the price bid for “Construction Staking.”

Payment shall be made at the contract unit price per ton for “Processed Aggregate Fine Grading” used in accordance with these specifications.

Payment shall be made at the lump-sum price bid for “Roadway Base As-Built Survey.”

Payment shall be made for the number of square yards of “Base Patch Repair” installed.

Payment shall be made for the number of lineal feet of “Cut Bituminous Concrete Pavement” completed.

<b><u>ITEM NO.</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>UNIT</u></b>
ITEM #202530A	REMOVE EXISTING HOT MIX ASPHALT PAVEMENT	S.Y.

## D. NUTRIENT AND pH REQUIREMENTS

All topsoil shall be fertilized as follows: the application rates of the fertilizer and limestone per 1,000 square feet of ground area of topsoil furnished by the CONTRACTOR shall be determined by the CONTRACTOR based on soil analysis tests so that the total natural and applied chemical constituents are as follows.

Nitrogen: 1.0 lb. minimum - 1.5 lb. maximum per 1,000 square feet

Phosphoric Acid: 1.0 lb. minimum - 2.0 lb. maximum per 1,000 square feet

Potassium: 1.0 lb. minimum - 2.0 lb. maximum per 1,000 square feet

Limestone: Limestone requirements shall conform to the following table:

LIMESTONE REQUIREMENTS

Soil pH	Limestone Pounds per 1,000 SF
Above 6.0	0
5.0 - 6.0	7
Below 5.0	14

## E. NOTIFICATION AND APPROVAL OF TOPSOIL

The results of soil analysis tests for texture, organic matter content, nutrient content and pH level along with recommendations for fertilizer shall be furnished by the CONTRACTOR to the ENGINEER for approval of the topsoil.

The CONTRACTOR shall furnish topsoil from East Hartford Sand and Gravel, 287 Strong Road, South Windsor, CT 06074. The ENGINEER reserves the right to inspect and topsoil at its source and test the material before approval will be granted for its use.

Any material delivered to the project, which does not meet specifications or which has become mixed with undue amounts of subsoil during any operation at the source or during placing and spreading, will be rejected and shall be replaced by the CONTRACTOR with acceptable material.

## F. CONSTRUCTION METHODS

Section 9.44.03 of the Standard Specifications shall apply and amended as follows:

Add the following:

The Contractor is to determine the means and methods required to insure that the final grades after settlement of the topsoil conforms to the final grades shown on the plans. Final acceptance will require

Special Provisions

ITEM #944001A

LEGEND

Table with 2 columns: Symbol/Line Style and Description. Includes items like CATCH BASIN, ROOF DRAIN, DRAIN MANHOLE, SEWER MANHOLE, ELECTRIC MANHOLE, TELEPHONE MANHOLE, MANHOLE, WATER MANHOLE, GATE BOX (WATER), FIRE HYDRANT, GATE BOX (GAS), STREET SIGN, TEST PIT, DRAINAGE EASEMENT, EDGE OF PAVEMENT, EDGE OF GRAVEL, EDGE OF TRAVELED WAY, CURB, STEEL GUIDE RAIL, BARBED WIRE FENCE, CHAIN LINK FENCE, WOOD FENCE, UNDERGROUND DRAINAGE LINE, UNDERGROUND SEWER LINE, OVERHEAD WIRE, UNDERGROUND ELECTRIC LINE, UNDERGROUND GAS LINE, UNDERGROUND WATER LINE, UNDERGROUND TELEPHONE LINE, TREE LINE, UNDERDRAIN, LIMIT OF WORK, PROPERTY LINE.

ABBREVIATIONS

Table with 2 columns: Abbreviation and Full Name. Includes ACR ACCESSIBLE CURB RAMP, ADBE AS DIRECTED BY ENGINEER, AOB E AS ORDERED BY ENGINEER, BASELINE, BITUMINOUS BERM, BITUMINOUS CURB, BITUMINOUS, BACK OF CURB, BACK OF WALK, BROKEN WHITE LINE, BROKEN YELLOW LINE, CATCH BASIN, CONCRETE CURB, CHAIN LINK FENCE, CORRUGATED METAL PIPE, COMMERCIAL, CONCRETE, CORRUGATED PLASTIC PIPE, DRAIN LINE, DOUBLE, DUCTILE IRON PIPE, DRAIN MANHOLE, DRAWING, DRIVEWAY, DOUBLE YELLOW LINE, ELECTRIC LINE, ELEVATION, ELECTRIC MANHOLE, EDGE OF PAVEMENT, EXISTING, FIRE ALARM, FLARED END SECTION, FINISH FLOOR ELEVATION, FLOW LINE, FACE OF CURB, GAS LINE, GATE BOX (GAS), GATE BOX (WATER), GRADE TO DRAIN, HOT MIX ASPHALT, HYDRANT, INVERT ELEVATION, INTERMEDIATE, LEFT, MANHOLE.

GENERAL CONSTRUCTION NOTES:

- 1. UPON THE AWARD OF THE CONTRACT, THE CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS, APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY ALL FEES, AND POST ALL BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS. THE CONTRACTOR MUST ALSO APPLY AND OBTAIN AN ENCRoACHMENT PERMIT PRIOR TO PERFORMING ANY WORK WITHIN STATE RIGHT-OF-WAY. ALL COSTS ASSOCIATED WITH OBTAINING PERMITS SHALL BE INCLUDED IN THE OVERALL COSTS OF THE PROJECT.
2. ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH THE CONDITIONS OF APPROVAL OUTLINED IN ALL STATE AND LOCAL PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THIS INFORMATION PRIOR TO CONSTRUCTION AND FOR CONFORMING TO THE CONDITIONS AS REQUIRED DURING CONSTRUCTION.
3. HANDICAP-ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS, AND WALKWAYS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE FEDERAL AMERICANS WITH DISABILITIES ACT AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEVER ARE MORE STRINGENT).
4. ACCESS TO RESIDENCES AND BUSINESSES SHALL BE PROVIDED BY THE CONTRACTOR AT ALL TIMES DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE TOWN. SPECIAL ATTENTION SHALL BE PAID TO COORDINATING WITH THE POLICE DEPARTMENT, EMERGENCY RESPONSE UNITS, AND TOWN OFFICIALS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. ALL CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
6. IN ADDITION TO COMPLIANCE WITH CONSTRUCTION SAFETY REQUIREMENTS, THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES AND PROVIDE ALL NECESSARY SIGNING, WARNING LIGHTS, DRUMS, CONES, AND CONTINUOUS BARRIERS OF SUFFICIENT TYPE, SIZE, AND STRENGTH TO PREVENT ACCESS TO ALL OPEN EXCAVATIONS AT THE COMPLETION OF EACH DAY'S WORK.
7. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING EXISTING HORIZONTAL AND VERTICAL GEOMETRY AND PAVEMENT CROSS SLOPE ON THE MILL-AND-OVERLAY ROADWAYS UNLESS OTHERWISE NOTED.
8. AREAS ALONG AND OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS, INCLUDING ALL LANDSCAPED AREAS, DRIVEWAY CURB RETURNS, RETAINING WALLS, OR SIMILARLY IMPROVED ADJOINING AREAS, SHALL BE PROTECTED AND/OR RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
9. RESETTING OF STONE WALLS, BRICK PAVERS, WOOD WALLS, STONE STEPS, SLATE WALKS, AND OTHER SIMILAR ITEMS WITHIN THE LIMITS OF WORK SHALL BE PAID FOR UNDER THE GENERAL COST OF THE WORK.
10. DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
11. THE CONTRACTOR SHALL PROTECT ALL STRUCTURES, EQUIPMENT, PIPING, AND VALVES FROM DAMAGE DURING CONSTRUCTION. ALL DAMAGE SHALL BE REPAIRED TO THE COMPLETE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
12. THE CONTRACTOR SHALL ENSURE THAT ALL EXISTING U.S. MAIL BOXES OR RESIDENTIAL MAIL BOXES WITHIN THE PROJECT LIMITS MEET THE STANDARDS OF THE UNITED STATES POSTAL SERVICE AFTER CONSTRUCTION IS COMPLETE. THE COST TO RESET OR REPAIR MAIL BOXES SHALL BE COVERED UNDER THE ITEM "RESET MAILBOX".
13. THE CONTRACTOR SHALL BE AWARE THAT SPRINKLER SYSTEMS MAY BE LOCATED WITHIN THE TOWN'S RIGHT OF WAY. THE CONTRACTOR IS REQUIRED TO PROTECT SPRINKLER SYSTEMS WHENEVER POSSIBLE. ANY WORK REQUIRED TO REPAIR OR RESET SPRINKLER SYSTEMS DAMAGED BY THE CONTRACTOR SHALL BE PAID FOR UNDER THE GENERAL COST OF WORK.
14. THE CONTRACTOR SHALL BE AWARE THAT INVISIBLE DOG FENCES MAY BE LOCATED WITH THE TOWN'S RIGHT OF WAY. THE CONTRACTOR IS REQUIRED TO PROTECT INVISIBLE DOG FENCES WHENEVER POSSIBLE. ANY WORK REQUIRED TO REPAIR INVISIBLE DOG FENCES SHALL BE PAID FOR UNDER THE GENERAL COST OF WORK.
15. PAVEMENT MILLING, REMOVAL OF HMA SURFACE AND FULL DEPTH RECONSTRUCTION OPERATIONS SHALL EXTEND TO THE OUTSIDE EDGE OF THE PAVED SURFACE, INCLUDING ANY BITUMINOUS CURBING AND PAVED SURFACE BENEATH THE BITUMINOUS CURB. ALL COSTS TO REMOVE BITUMINOUS CURBING SHALL BE INCLUDED IN THE ITEM "MILLING HMA (0" TO 4")", "REMOVE EXISTING HOT MIX ASPHALT PAVEMENT", OR "EARTH EXCAVATION".
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND APPLYING WATER TO CONTROL DUST ON ALL ROADWAYS WHERE AGGREGATE IS EXPOSED, INCLUDING MILLED ROADWAYS ON WHICH AGGREGATE BASE IS EXPOSED. ALL COSTS FOR PROVIDING WATER FOR DUST CONTROL ON THESE ROADWAYS SHALL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS MILLING AND PAVEMENT REMOVAL ITEMS.
17. UPON COMPLETION OF PAVING, ALL SAWCUT PAVING JOINTS AND CONSTRUCTION JOINTS FORMED IN THE SURFACE COURSES AT INTERSECTING STREETS SHALL BE CLEANED, HEATED, AND SEALED IN ACCORDANCE WITH THE SPECIFICATION FOR 'CLEANING AND SEALING CRACKS.' THIS WORK SHALL BE MEASURED AND PAID FOR AS 'CLEANING AND SEALING CRACKS.'
18. ALL CURB TIES (STATION AND OFFSETS) ARE TO THE FACE OF CURB UNLESS NOTED OTHERWISE. WHERE NEW GRANITE CURBING SHALL BE INSTALLED AND NO CURB TIE INFORMATION IS AVAILABLE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE EXISTING CURB RADII AND APPLY THE NEW GRANITE CURBING AT THE MEASURED RADII.
19. THE CONTRACTOR SHALL TRANSITION THE BITUMINOUS CONCRETE CURB TO MATCH THE TOP ELEVATION OF ALL TYPE "C" CATCH BASIN TOPS.
20. WHEN PLACING THE BITUMINOUS CONCRETE CURB OVER A TYPE "C-L" TOP, THE CONTRACTOR SHALL ENSURE THAT THE CURBING DOES NOT INTERFERE WITH THE REMOVAL OF THE GRATE.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL STORM, SEWER, WATER, AND GAS UTILITIES UNCOVERED OR DISTURBED DURING CONSTRUCTION OPERATIONS. THE UNCOVERED OR DISTURBED UTILITIES SHALL BE ADJUSTED TO FINISHED GRADE ELEVATIONS. ACCESS TO THESE UTILITY STRUCTURES SHALL NOT BE OBSTRUCTED. THIS WORK SHALL BE MEASURED AND PAID FOR UNDER THE APPLICABLE RESET ITEM. THE CONTRACTOR SHALL COORDINATE ADJUSTMENT OF ANY ELECTRICAL, TELEPHONE, OR CABLE FACILITIES WITH THE UTILITY OWNER.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING CATCH BASIN FRAMES AND GRATES AND FOR PAVING THE ADJOINING ROADWAY TO PROVIDE POSITIVE GRADES TO DRAIN THE SURROUNDING AREA AS DIRECTED BY THE ENGINEER.
23. THE CONTRACTOR IS ADVISED THAT THERE ARE AREAS OF LIMITED COVER ON SOME STORM DRAIN PIPES. THE CONTRACTOR IS CAUTIONED TO TAKE EXTRA CARE WHILE EXCAVATING, AND/OR COMPACTING THE ROADWAY. AT THESE LOCATIONS, THE CONTRACTOR SHALL UTILIZE NON-VIBRATORY ROLLERS TO COMPACT AND PREPARE THE SUBGRADE TO SPECIFIED DENSITIES. OSCILLATORY ROLLERS WILL BE ALLOWED AT THESE LOCATIONS, THE USE OF NON-VIBRATORY ROLLERS SHALL NOT RELEASE THE CONTRACTOR FROM OBTAINING DENSITY REQUIREMENTS. ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE REPAIRED TO THE ENGINEER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.
24. TRAFFIC SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
25. STOP BARS SHALL BE PLACED IN THE TRAVEL WAY DIRECTLY ADJACENT TO STOP SIGNS.
26. THE CONTRACTOR SHALL PLACE DOUBLE YELLOW LINES AT THE CENTER OF THE ROADWAY UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER.
27. THE CONTRACTOR SHALL MATCH THE PROPOSED PAVEMENT MARKINGS WITH EXISTING PAVEMENT MARKINGS AT ALL LIMITS OF WORK.
28. THE TOWN WILL BE RESPONSIBLE FOR ESTABLISHING TEMPORARY NO-PARKING AREAS DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION WORK SCHEDULE WITH THE TOWN SO THAT ADVANCE NOTICE CAN BE PROVIDED TO RESIDENCES AND BUSINESSES. THE CONTRACTOR WILL BE RESPONSIBLE FOR SUPPLYING AND POSTING THE NECESSARY TEMPORARY NO-PARKING SIGNS. COSTS OF THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR "MAINTENANCE AND PROTECTION OF TRAFFIC."
29. THE FINAL LOCATION, LENGTHS, AND WIDTHS OF EACH DRIVEWAY MAY BE MODIFIED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.
30. AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) SHALL RECEIVE 6" TOPSOIL AND TURF ESTABLISHMENT.
31. ALL TYPICAL SECTIONS SHOWN ON CONSTRUCTION PLANS ARE ORIENTED LOOKING FROM THE BEGINNING OF CONSTRUCTION TO THE END OF CONSTRUCTION, UNLESS SPECIFICALLY NOTED OTHERWISE.
32. THE CONTRACTOR IS TO GRADE THE SNOW SHELF FROM THE BACK OF CURB TO THE FACE OF SIDEWALK WITHIN THE PROJECT LIMITS. IN THE CASE WHERE NO SIDEWALK IS PRESENT, THE CONTRACTOR SHALL REGRADE FROM THE BACK OF CURB TO A MINIMUM OF 5' FROM THE BACK OF CURB UNLESS OTHERWISE NOTED IN THE PLANS.
33. THE CONTRACTOR SHALL CLEAR ANY TREE BRANCHES OVERHANGING THE ROADWAY AND SIDEWALK TO PROVIDE A 3 FEET MINIMUM CLEARANCE FROM THE EDGE OF PAVEMENT AND VERTICAL CLEARANCES OF 8 FEET OVER THE SIDEWALK AND 16 FEET OVER THE ROADWAY. ALL CLEARING OF VEGETATION ADJACENT TO THE SIDEWALK AND ROADWAY SHOULD BE TO THE LIMITS SHOWN ON THE PLANS OR AS ORDERED BY THE ENGINEER. THE CONTRACTOR SHALL POST ALL TREES REQUIRING TRIMMING FOR A PERIOD OF TEN (10) CALENDAR DAYS AND A NOTICE IS TO BE LEFT AT EACH AFFECTED PROPERTY. THE COST OF CLEARING AND TRIMMING SHALL BE COVERED UNDER THE ITEM "SELECTIVE CLEARING AND THINNING".
34. THE CONTRACTOR IS ADVISED THAT ADDITIONAL "NOTES" WILL BE FOUND ON SUBSEQUENT SHEETS OF THE CONTRACT PLANS AND SUCH "NOTES," WHILE PERTAINING TO THE SPECIFIC DRAWINGS THEY ARE PLACED ON, ALSO SUPPLEMENT THE GENERAL NOTES LISTED HEREIN.
35. THE INLAND WETLANDS INFORMATION SHOWN ON THE PLANS WAS OBTAINED FROM THE TOWN OF EAST HARTFORD.

- 36. TRACKED VEHICLES AND OTHER EQUIPMENT ARE NOT ALLOWED ON BITUMINOUS CONCRETE OR OTHER PAVED ROADWAY SURFACES.
37. REMOVAL OF CONCRETE CURBING AND GRANITE CURBING SHALL BE PAID FOR UNDER THE ITEM "EARTH EXCAVATION".
38. THE CONTRACTOR SHALL PROTECT LANDSCAPED AREAS WITHIN THE LIMITS OF WORK WHERE POSSIBLE. LANDSCAPED AREAS THAT ARE DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED. THE COST TO RESTORE LANDSCAPED AREAS SHALL BE INCLUDED IN THE GENERAL COST OF WORK.
39. THE CONTRACTOR SHALL ENSURE THAT THE GAP UNDER EACH DRIVEWAY GATE IS OF EQUAL HEIGHT BEFORE AND AFTER DRIVEWAY RECONSTRUCTION. THE COST TO RESET THE DRIVEWAY GATES SHALL BE INCLUDED UNDER THE ITEM "RESET CHAIN LINK FENCE".

DRAINAGE NOTES:

- 1. THE CONTRACTOR SHALL FIELD-VERIFY THE LOCATION, SIZE, INVERTS, AND TYPES OF EXISTING PIPES AT ALL PROPOSED POINTS OF CONNECTION PRIOR TO ORDERING MATERIALS. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR. THE INFORMATION SHALL BE FURNISHED IN WRITING TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
2. ADJUST RIM ELEVATIONS OF MANHOLES, WATER GATES, GAS GATES AND ALL OTHER UTILITIES TO FINISHED GRADE WITHIN LIMITS OF WORK.
3. THE PROPOSED RIM ELEVATIONS FOR CATCH BASINS HAVE BEEN MEASURED AT THE PROPOSED FACE OF CURB (GUTTER LINE) FOR TYPE "C" CATCH BASINS AND AT THE CENTER OF THE GRATE FOR TYPE "C-L" CATCH BASINS. ALL PROPOSED RIM ELEVATIONS ACCOUNT FOR THE DEPRESSION SPECIFIED IN THE MISCELLANEOUS DETAILS WITH RESPECT TO PROPOSED ROADWAY GRADES AND CROSS SLOPES.
4. WHEN INSTALLING A NEW PIPE THAT REQUIRES A CONNECTION TO AN EXISTING PIPE, THE NEW PIPE CONNECTION SHALL BE MADE AT THE JOINT OF THE EXISTING PIPE NEAREST TO THE PROPOSED PIPE.
5. WHEN INSTALLING A NEW CATCH BASIN THAT REQUIRES A CONNECTION TO AN EXISTING PIPE, THE SECTION OF THE EXISTING PIPE DISTURBED BY CONSTRUCTION SHALL BE REPLACED WITH NEW PIPE OF SIMILAR SIZE AND TYPE EXTENDING FROM THE CATCH BASIN TO THE NEAREST JOINT OF EXISTING PIPE OR AS DIRECTED BY THE ENGINEER. WHERE EXISTING 10" CONCRETE PIPE REQUIRES REPLACEMENT, 10" POLYVINYL CHLORIDE PIPE SHALL BE USED WITH THE APPROPRIATE PIPE COUPLING. THE INSTALLATION OF THE 10" POLYVINYL CHLORIDE PIPE SHALL BE PAID FOR UNDER ITEM "10" POLYVINYL CHLORIDE PIPE - 0' - 10' DEEP". WHERE PIPE COUPLINGS ARE REQUIRED TO CONNECT NEW PIPES TO AN EXISTING PIPE, THE COST SHALL BE INCIDENTAL TO INSTALLING THE NEW PIPES.
6. ALL CATCH BASIN GRATES ARE TO BE TYPE "A."
7. THE LOCATIONS FOR INSTALLATION OF MANHOLE FRAME AND COVER AND/OR MANHOLE FRAME AND COVER (SANITARY SEWER) ARE TO BE DETERMINED BY THE ENGINEER.
8. ALL PROPOSED TYPE 'C' CATCH BASIN TOPS SHALL BE 'PARK TYPE' CURB TOPS ON ALL STREETS WITH BITUMINOUS CURBING. ON STREETS WHERE THE CURBING IS BERM TYPE 'C-L' CATCH BASIN TOPS SHALL BE INSTALLED. ON STREETS WHERE THE CURBING IS GRANITE OR STONE, THE TYPE 'C' CATCH BASIN TOPS SHALL BE 'CONCRETE OR STONE CURBING FOR TYPE 'C' CB'. ALL TYPE 'C' CATCH BASIN TOPS INSTALLED ON THIS PROJECT SHALL HAVE A METAL PLAQUE WITH THE WORDS 'DRAINS TO WATERWAY' CAST INTO THE TOP OF THE SPECIFIED CONCRETE CATCH BASIN TOP. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING TOPS.
9. THE CONTRACTOR SHALL SET CATCH BASIN FRAME AND GRATES TO PROVIDE POSITIVE DRAINAGE INTO THE STRUCTURE. THE CONTRACTOR IS ADVISED THAT THE CATCH BASIN FRAME ELEVATIONS PROVIDED ON THE PLANS INCLUDE ANY ADDITIONAL DEPRESSION REQUIRED PER THE CATCH BASIN DETAILS.
10. THE CONTRACTOR SHALL CLEAN ALL EXISTING PIPES, MANHOLES AND CATCH BASINS SHOWN ON THE PLANS PRIOR TO CONSTRUCTION AND REVIEW CONDITIONS TO DETERMINE IF ANY STORM DRAINAGE PIPES REQUIRE REPAIR. THE CONTRACTOR SHALL EXPOSE ALL BURIED MANHOLES TO ALLOW ACCESS FOR INSPECTION AND CLEANING. THE EXPOSED MANHOLE SHALL BE LEFT IN A SAFE CONDITION. THE ENTIRE DRAINAGE SYSTEM SHALL BE LEFT IN A CLEAN AND OPERABLE CONDITION AT THE COMPLETION OF THE WORK.

SURVEY NOTES:

- 1. THE PROPERTY LINES SHOWN ON THIS PLAN ARE APPROXIMATE LINES BASED ON MAPPING PROVIDED BY THE TOWN OF EAST HARTFORD. VHB HAS NOT PERFORMED A FIELD SURVEY TO VERIFY THE PROPERTY LINES.
2. THE EXISTING CONDITIONS SHOWN FOR EVANS AVENUE, HANDEL ROAD, HOLLISTER DRIVE, HOLLISTER DRIVE #2, HOLLISTER DRIVE #3, JEFFERSON LANE, MILBROOK DRIVE, NASSAU LANE, OXFORD DRIVE, CAMBRIDGE DRIVE, PRINCETON LANE, AND SUTTON AVENUE ARE BASED UPON AN ACTUAL ON-THE-GROUND INSTRUMENT SURVEY PERFORMED BY VHB BETWEEN JULY 2018 AND OCTOBER 2018. THE HORIZONTAL AND VERTICAL VALUES FOR THESE ROADWAYS ARE BASED ON CTNAD 1983 AND NAVD88 DATUMS.
3. THE CONTRACTOR SHALL HAVE A CONNECTICUT REGISTERED LAND SURVEYOR AVAILABLE TO RESET ANY MONUMENTS DISTURBED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER. A SURVEY SHALL BE PROVIDED BY THE CONTRACTOR TO ENSURE THE MONUMENTATION HAS BEEN RESET TO ITS ORIGINAL LOCATION.
4. THE CONTRACTOR IS ADVISED THAT SOME CONTROL POINTS SHOWN ON THE PLANS MAY BE LOCATED ON THE EXISTING PAVEMENT SURFACE OR WITHIN THE CONSTRUCTION LIMITS. THE CONTRACTOR IS RESPONSIBLE FOR REESTABLISHING THOSE CONTROL POINTS AFTER CONSTRUCTION IS COMPLETED ON THAT STREET.

EROSION AND SEDIMENTATION CONTROL NOTES:

- 1. THE CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO OFF-SITE AREAS AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO THE OWNER.
2. THE CONTRACTOR SHALL INSTALL 'SEDIMENTATION CONTROL SYSTEM AT CATCH BASIN' AT CATCH BASINS PRIOR TO THE BEGINNING OF WORK AT LOCATIONS INDICATED ON THE PLANS, AS REQUIRED, OR AS ORDERED BY THE ENGINEER.
3. THE CONTRACTOR MUST INSPECT AND MAINTAIN EROSION CONTROL MEASURES AND REMOVE SEDIMENT THEREFROM ON A WEEKLY BASIS AND WITHIN TWELVE HOURS AFTER EACH STORM EVENT AND DISPOSE OF SEDIMENTS IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE SPECIFICATIONS.
4. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT.
5. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND SHALL CLEAN SEDIMENT AND DEBRIS FROM THE ENTIRE STORM DRAINAGE SYSTEM.
6. PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.
7. THE CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED TO PREVENT EROSION.
8. PRIOR TO STARTING ANY WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY THE EAST HARTFORD WETLAND AGENT AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS. ADDITIONAL EROSION CONTROLS MAY BE REQUIRED AS DIRECTED BY THE WETLAND AGENT.
9. THE TOWN HAS INCORPORATED A 'GENERAL PERMIT FOR STORMWATER DISCHARGE' (GPSD) WITHIN THE CONTRACT DOCUMENTS IN ORDER TO INSURE COMPLIANCE WITH THE CONDITIONS OF THE GPSD. THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH ALL APPLICABLE CONDITIONS OF THE GPSD.

MAINTENANCE & PROTECTION OF TRAFFIC NOTES:

- 1. THE CONTRACTOR SHALL MAINTAIN LOCAL ACCESS ALONG ALL PROJECT ROADWAYS ON A TRAVEL PATH NOT LESS THAN 12 FEET IN WIDTH. ALTERNATING ONE WAY TRAFFIC SHALL BE ALLOWED ON ROADWAYS WHERE TWO, OPPOSING, 11 FOOT LANES ARE NOT AVAILABLE. AT THE COMPLETION OF THE WORKDAY, THE CONTRACTOR SHALL RESTORE THE ROADWAY TO NORMAL TRAFFIC OPERATIONS.
2. AT THE END OF EACH WORKDAY, THE CONTRACTOR SHALL CONSTRUCT A COMPACTED PROCESSED AGGREGATE RAMP AT THE END OF ANY UNPAVED SECTION, INCLUDING AT ALL DRIVEWAYS AND AT ALL INTERSECTING ROADWAYS. ON MILLED ROADWAYS, THE CONTRACTOR SHALL INSTALL A TEMPORARY BITUMINOUS CONCRETE RAMP. THE COST OF CONSTRUCTING, MAINTAINING, AND REMOVING THESE RAMPS SHALL BE INCLUDED IN THE PRICE BID FOR "MAINTENANCE AND PROTECTION OF TRAFFIC."
3. ADVANCE WARNING SIGNS ("GRAVEL ROAD AHEAD" AND "BUMP") SHALL BE USED AT UNPAVED SECTIONS AS NEEDED TO WARN MOTORISTS OF THE CHANGE IN TRAVEL SURFACE. THE CONTRACTOR SHALL SPRAY PAINT (ORANGE) THE EDGES OF ANY RAISED AND/OR EXPOSED UTILITY STRUCTURES. DRUMS OR CONES SHALL BE PLACED ON ALL RAISED AND/OR EXPOSED UTILITY STRUCTURES WHERE FEASIBLE.
4. FOR ALL ROADWAYS THAT ARE DESIGNATED FOR MILLING, REMOVAL OF ALL HOT MIX ASPHALT, AND RECONSTRUCTION THE CONTRACTOR MUST SUBMIT FOR APPROVAL A MAINTENANCE AND PROTECTION OF TRAFFIC PLAN TO THE ENGINEER 30 DAYS PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL ALSO SUBMIT FOR APPROVAL DETOUR AND SIGNING PLANS 21 DAYS IN ADVANCE. DETOURS ARE ONLY ALLOWED ON LOCAL ROADWAYS. DETOURS ARE NOT ALLOWED ON COLLECTOR OR ARTERIAL ROADWAYS.
5. THE CONTRACTOR SHALL POST A SIGN AT THE BEGINNING OF CONSTRUCTION ZONE WHICH SHALL READ AS FOLLOWS: "ROAD WORK AHEAD FINES DOUBLED", AND AT THE END OF SUCH ZONE WHICH SHALL READ AS FOLLOWS: "END ROAD WORK".

UNDERGROUND UTILITY NOTES:

- 1. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 A MINIMUM OF 72-HOURS PRIOR TO ANY EXCAVATION BEING PERFORMED ON SITE.
2. THE LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITIES SHOWN ON THIS PLAN ARE BASED ON FIELD OBSERVATIONS AND INFORMATION OF RECORD AND ARE AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR ITS REPRESENTATIVE(S) HAVE NOT INDEPENDENTLY VERIFIED THIS INFORMATION AS SHOWN ON THE PLANS. EXISTING UTILITIES ARE NOT GUARANTEED TO BE EXACTLY LOCATED, NOR IS IT GUARANTEED THAT ALL UNDERGROUND/OVERHEAD UTILITIES OR OTHER STRUCTURES ARE SHOWN ON THIS PLAN.
3. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES AND DETERMINE THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES. THE CONTRACTOR SHALL CONFIRM THAT THERE IS NO INTERFERENCE BETWEEN EXISTING UTILITIES AND THE PROPOSED UTILITY ROUTES. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
4. BUILDING SERVICE CONNECTIONS (ELECTRIC, GAS, TELEPHONE, WATER, AND SANITARY) ARE SHOWN WHEREVER POSSIBLE. THE CONTRACTOR IS TO ASSUME THAT SERVICES ARE PRESENT TO ALL BUILDINGS. THE LOCATIONS AND DEPTHS OF ALL BUILDING SERVICE CONNECTIONS ARE TO BE CHECKED WITH THE APPROPRIATE UTILITY COMPANIES.
5. THE UTILITY LOCATIONS AND DEPTHS SHOWN ON THE CROSS SECTIONS AND PROFILES ARE APPROXIMATE REPRESENTATIONS ONLY AND ARE NOT INTENDED TO BE A COMPLETE OR ACCURATE DEPICTION OF THE UNDERGROUND UTILITIES. THE LOCATIONS AND DEPTHS OF ALL UNDERGROUND UTILITIES HAVE NOT BEEN VERIFIED BY TEST PITS.
6. PRIOR TO THE START OF CONSTRUCTION, TEST PITS SHOULD BE DUG AS NECESSARY TO DETERMINE THE SIZES, LOCATIONS, AND DEPTHS OF EXISTING UNDERGROUND UTILITIES. ANY CONFLICTS NOTED IN PROPOSED CONSTRUCTION SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE CONTRACTOR'S FAILURE TO NOTIFY THE ENGINEER PRIOR TO PERFORMING ADDITIONAL WORK RELEASES THE OWNER FROM OBLIGATIONS FOR ADDITIONAL PAYMENTS WHICH OTHERWISE MAY BE WARRANTED TO RESOLVE THE CONFLICT.
7. THE CONTRACTOR SHALL BE AWARE OF POSSIBLE SHALLOW UTILITIES IN BOTH THE SNOW SHELF AREA (BETWEEN THE BACK OF CURB AND FACE OF SIDEWALK) AND THE AREA DIRECTLY BEHIND THE BACK OF SIDEWALK. IT IS RECOMMENDED THAT THE CONTRACTOR VERIFY THEIR DEPTHS PRIOR TO EXCAVATION.
8. IN THE EVENT THE CONTRACTOR DAMAGES AN EXISTING UTILITY SERVICE CAUSING AN INTERRUPTION IN SAID SERVICE, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE AFFECTED UTILITY, COORDINATE REPAIRS, AND PERFORM THE WORK AS DETAILED BY THE UTILITY AS NEEDED TO RESTORE SERVICE AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL NOT CONTINUE WITH OTHER WORK OPERATIONS UNTIL THE UTILITY SERVICE IS RESTORED.

Table with 4 columns: REV., DATE, DESCRIPTION, SHEET NO. Row 1: 02/25/20, REVISED GENERAL CONSTRUCTION NOTE, 002. Row 2: REV., DATE, DESCRIPTION, SHEET NO.

Designation block for vhb Engineers Scientists Planners Designers. Includes Designer: JRE, Drafter: TJM, Checked By: BAA, Approved By: SON, Issued for Construction, Date: January, 2020.



Project Title: CAMBRIDGE DRIVE NEIGHBORHOOD ROADWAY IMPROVEMENT PROJECT VARIOUS LOCATIONS. CADD FILENAME: GNA--4241300--HOLLISTER - ADDENDUM #1.DWG

Town: EAST HARTFORD, CONNECTICUT. Drawing Title: LEGEND, ABBREVIATIONS & GENERAL NOTES.

Project No.: 42413.00. Drawing No.: GNA-01. Sheet No.: 002 OF 294.

ITEM	2101099A	210110A	2102001	2102452A	2102529A	2102530A	2102539A	2102604	2102601	211000A	2102001	210211A	2104002	210410A	2104500A	410101A	410100A	410200A	410300A	410612A	4106300A	4106306	4106357A
REMOVAL OF TREE - 12" TO 24" CALIPER	EA																						
REMOVAL OF TREE - OVER 24" CALIPER		EA																					
EARTH EXCAVATION			CY																				
TEST PIT			EA																				
CUT BITUMINOUS CONCRETE PAVEMENT				LF																			
REMOVE EXISTING HOT MIX ASPHALT PAVEMENT					SY																		
REMOVE AND RESET SURVEY MONUMENT			EA																				
ROCK IN TRENCH EXCAVATION 0'-10" DEEP			CY																				
FORMATION OF SUBGRADE					SY																		
ANTI-TRACKING PAD					SY																		
SEDIMENTATION CONTROL SYSTEM					LF																		
SEDIMENT CONTROL SYSTEM AT CATCH BASIN					EA																		
PROCESSED AGGREGATE BASE					CY																		
PROCESSED AGGREGATE FINE GRADING					TON																		
ROADWAY AS-BUILT SURVEY					LS																		
HOT MIX ASPHALT LEVELING/SHIM COURSE					TON																		
PARTIAL DEPTH PATCH REPAIR (LOCAL)					SY																		
FULL DEPTH PATCH REPAIR (LOCAL)					SY																		
BASE PATCH REPAIR					SY																		
HMA 80.375					TON																		
CLEANING AND SEALING CRACKS					LF																		
MATERIAL FOR TACK COAT					GAL																		
MILLING HMA (0" TO 4")					SY																		
EVANS AVENUE		2	306		246			26		10			9			312				442	3174	760	5430
HANDEL ROAD			626	1	393	13740		33		17			16	671						2699	6474	1374	
HOLLISTER DRIVE			669		576	12435		63		26			25	607						2083	7278	622	
HOLLISTER DRIVE #2			41							1										97	780	79	1123
HOLLISTER DRIVE #3			45																	94	760	77	1094
JEFFERSON LANE			1721		141			27	4573	17			780			262				1392	5182	867	4550
MILBROOK DRIVE			1276		108			19	3052	15			523			174				907	4452	705	3942
NASSAU LANE			814		100			13	2587	4			436							435	1438	129	
OXFORD-CAMBRIDGE DRIVE			2030		685			37	7249	18			1228			558				2046	9568	1797	10245
PRINCETON LANE			316					8	903	4			155							152	582	45	
SUTTON AVENUE			26		66	1982		5		4			97							447	940	198	
SUBTOTAL	0	2	7,870	1	2,315	28,157	0	231	18,364	0	0	116	3,176	1,375	0	1,306	4,590	2,223	2,816	10,794	40,628	6,653	26,384
UNASSIGNED	2		700	2	235	2,843	2	4	1,836	500	500		324	135	1	134	460	222	284	1,006	4,072	647	2,616
TOTAL	2	2	8,570	3	2,550	31,000	2	235	20,200	500	500	116	3,500	1,510	1	1,440	5,050	2,445	3,100	11,800	44,700	7,300	29,000

ITEM	4106999A	5107731A	5106001.10	5106040.10	51061000.00	51063000.10	5106300.10	5106651A	5106700A	5106701A	5106700A	611239A	651239A	6513001	651010	651100	6106000.12	6106000.18	6106000.24	6106002.12	6106002.15	6106200.10A	6106200.12A
ASPHALT ADJUSTMENT COST	EST																						
REBUILD CATCH BASIN		VLF																					
TYPE "C" CATCH BASIN - 0' - 10' DEEP			EA																				
TYPE "C-L" CATCH BASIN - 0' - 10' DEEP			EA																				
TYPE "C-M" CATCH BASIN - 0' - 10' DEEP			EA																				
OFFSET CATCH BASIN - 0'-10' DEEP			EA																				
MANHOLE			EA																				
RESET MANHOLE (STORM)			EA																				
CONVERT CATCH BASIN TO TYPE "C" CATCH BASIN			EA																				
CONVERT CATCH BASIN TO TYPE "C-L" CATCH BASIN			EA																				
MANHOLE FRAME AND COVER			EA																				
CHECKMATE ULTRAFLEX SLIP-IN INLINE CHECK VALVE			EA																				
GROUT FILL STORM PIPE			CY																				
CLEAN EXISTING CATCH BASIN			EA																				
CLEAN EXISTING MANHOLE			EA																				
CLEAN EXISTING CULVERT 12"-42" DIAMETER			LF																				
12" R.C. PIPE - 0' - 10' DEEP			LF																				
18" R.C. PIPE - 0' - 10' DEEP			LF																				
24" R.C. PIPE - 0' - 10' DEEP			LF																				
12" R.C. PIPE (CLASS V) - 0' - 10' DEEP			LF																				
15" R.C. PIPE (CLASS V) - 0' - 10' DEEP			LF																				
10" POLYVINYL CHLORIDE PIPE - 0' - 10' DEEP			LF																				
12" POLYVINYL CHLORIDE PIPE - 0' - 10' DEEP			LF																				
EVANS AVENUE			8					7	2				10	6	1242								
HANDEL ROAD			13			1		4	3				18	12	2583								
HOLLISTER DRIVE			18	2		2		17	4	1			27	15	4030							152	
HOLLISTER DRIVE #2																							
HOLLISTER DRIVE #3																							
JEFFERSON LANE			1		1			9	14				18	7	2785	24	8						
MILBROOK DRIVE			3	1	1	4		5	5				14	6	1913							64	
NASSAU LANE			4					4					6	2	1241							32	
OXFORD-CAMBRIDGE DRIVE			16			1		12	1				23	12	3985	8	8					88	
PRINCETON LANE			2					1	1				3		380	13						24	
SUTTON AVENUE			4					3					2	2	652		24					16	
SUBTOTAL	0	0	69	3	2	8	0	62	30	1	0	1	121	62	18,811	45	40	0	0	0	0	496	0
UNASSIGNED		5					1				5		10		1,889	5	5	50	50	50	54	50	
TOTAL	50,000	5	69	3	2	8	1	62	30	1	5	1	10	62	20,700	50	45	50	50	50	50	550	50

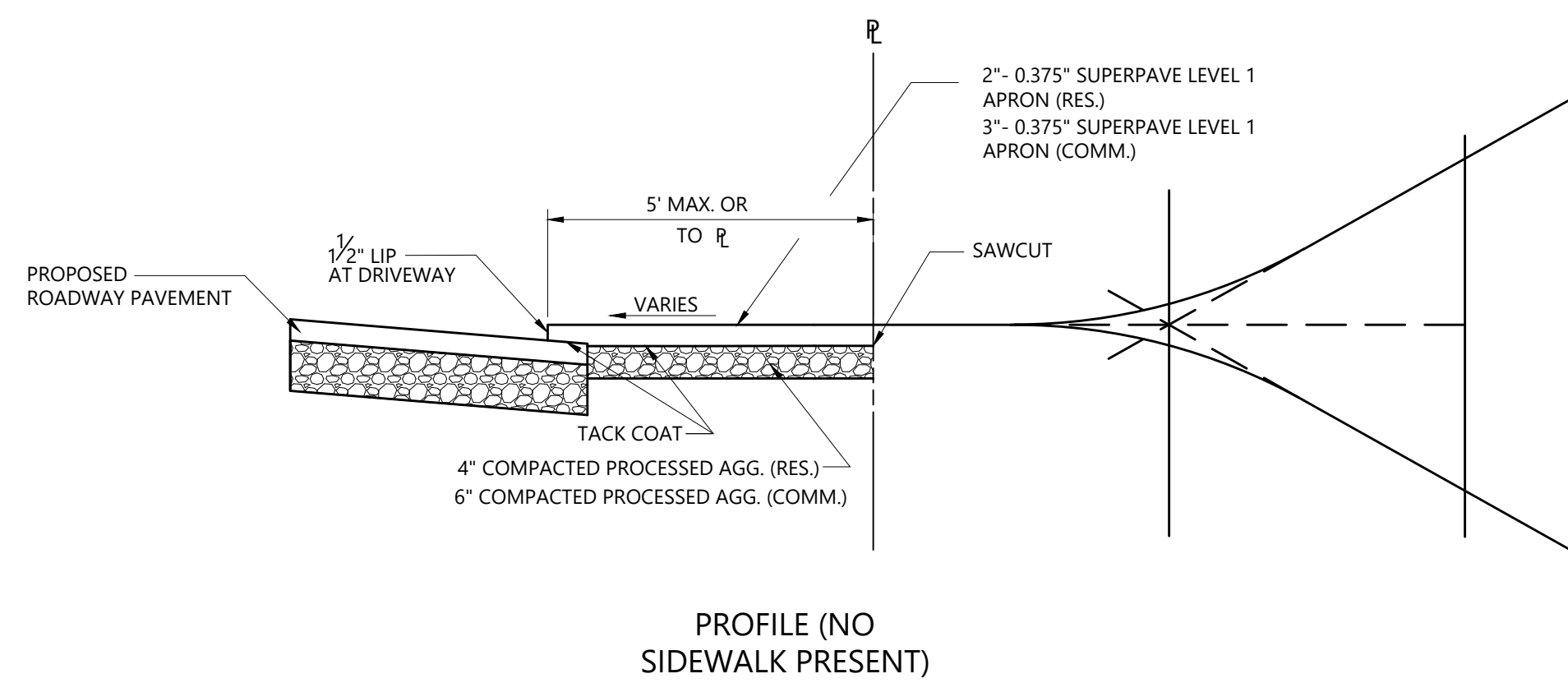
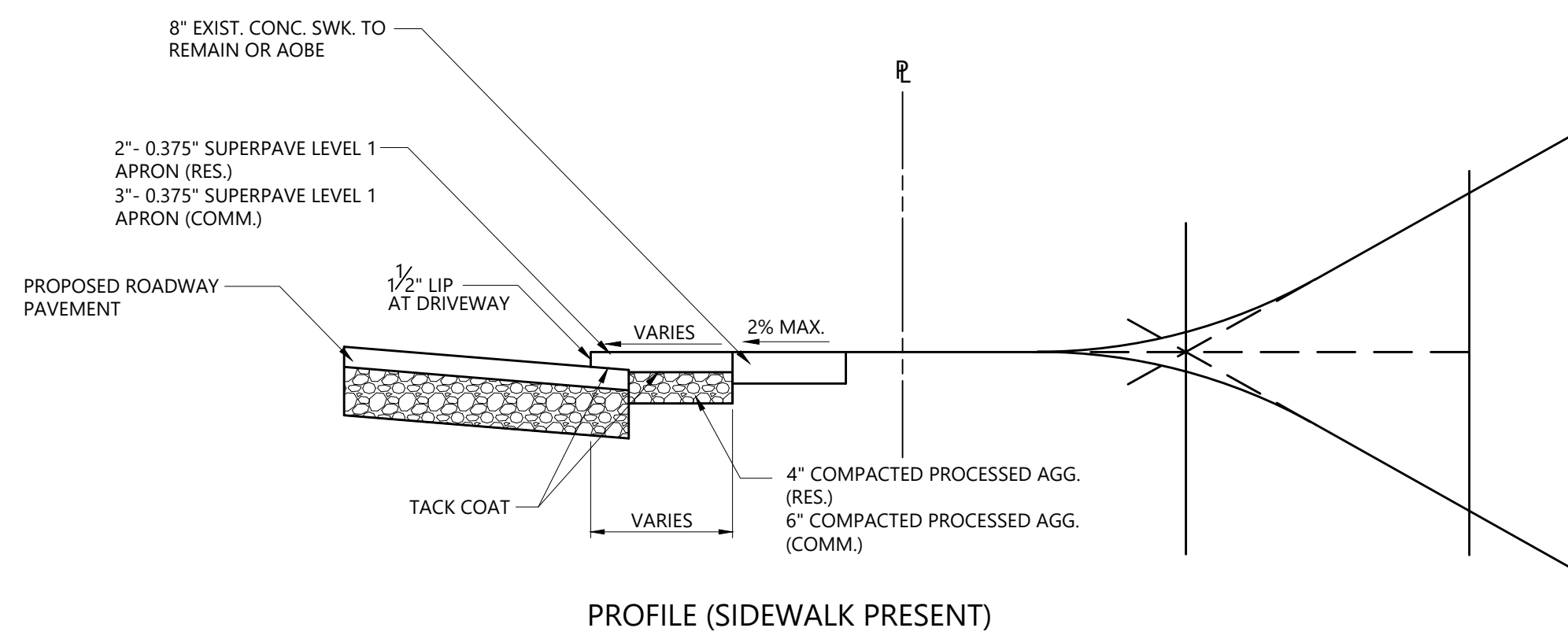
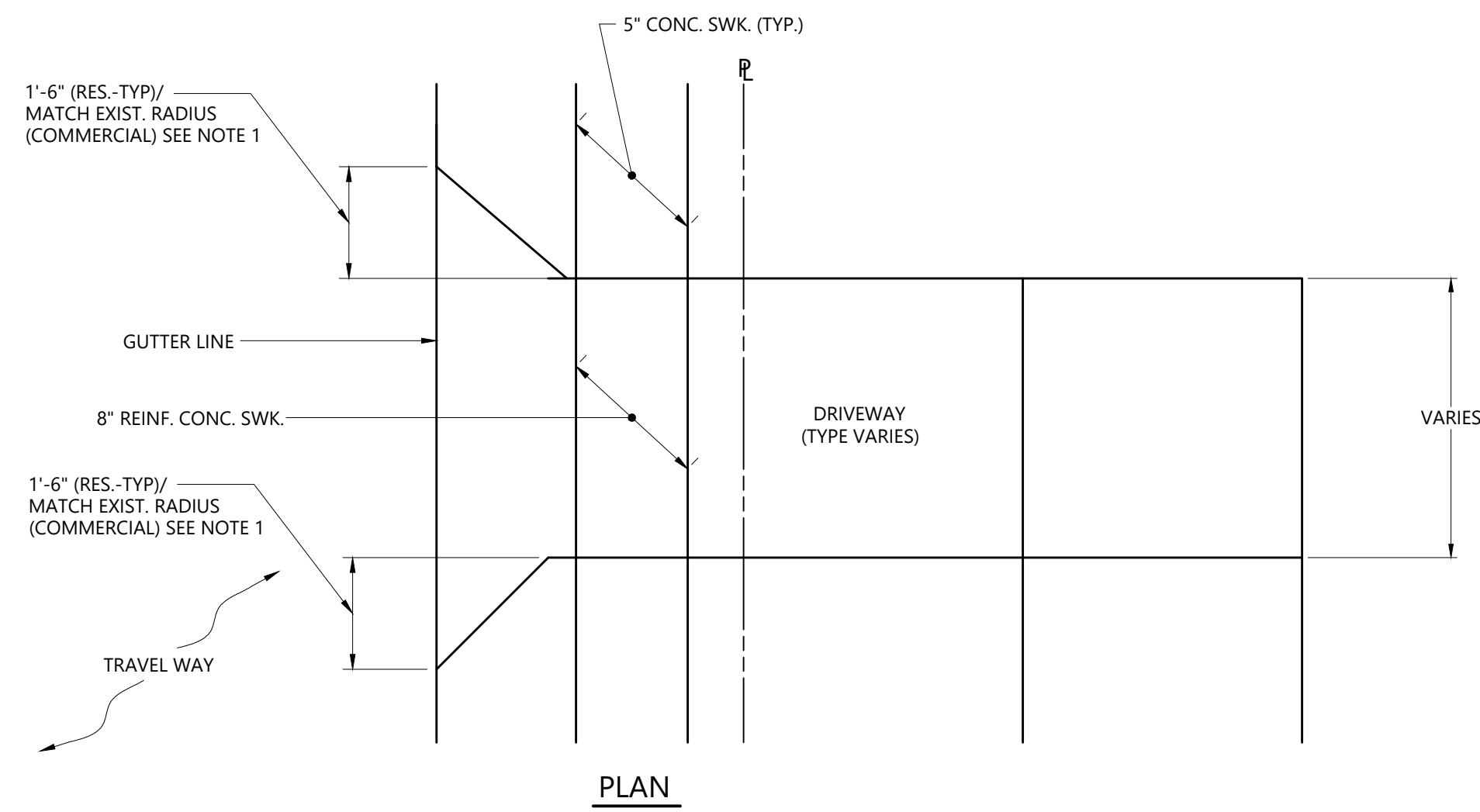
DESIGNER: JRE	 <b>Engineers Scientists Planners Designers</b> ISSUED FOR CONSTRUCTION DATE: JANUARY, 2020	 PROJECT TITLE: <b>CAMBRIDGE DRIVE NEIGHBORHOOD ROADWAY IMPROVEMENT PROJECT VARIOUS LOCATIONS</b>	TOWN: EAST HARTFORD, CONNECTICUT
------------------	--	--	-------------------------------------

ITEM	88571610A	88571912A	8151001A	8151011A	8151000A	8151002A	8151010A	9163300A	9163301A	916204A	916213A	911000	9131001	913817A	913903	921001A	921002A	921002A	9210011	922500A	922501A	922511A	922502A	
10" DUCTILE IRON PIPE - 0' - 10' DEEP	LF															EA								
12" DUCTILE IRON PIPE - 0' - 10' DEEP	LF	122																						
5" GRANITE STONE CURBING	LF		44																					
5" GRANITE CURVED STONE CURBING	LF		128																					
BITUMINOUS CONCRETE LIP CURBING - 5"	LF				5312																			
BITUMINOUS CONCRETE LIP CURBING - 6"	LF					2441																		
BITUMINOUS CONCRETE BERM	LF																							
RESET ORNAMENTAL WOOD FENCE	LF																							
RESET PICKET FENCE	LF																							
RESET SPLIT RAIL FENCE	LF																							
RESET VINYL PRIVACY FENCE	LF																							
REMOVE CHAIN LINK FENCE	LF																							
4" CHAIN LINK FENCE	LF																							
RESET CHAIN LINK FENCE	LF																							
10' CHAIN LINK DOUBLE GATE 4' HIGH	EA															1								
CONCRETE SIDEWALK - 5"	SF																38	49	331					
CONCRETE SIDEWALK - 8"	SF																39	40	1559		11			
CONCRETE SIDEWALK RAMP	SF																457	506	368					
CONCRETE DRIVEWAY	SF																							
BITUMINOUS CONCRETE DRIVEWAY (COMMERCIAL)	SY																							
BITUMINOUS CONCRETE DRIVEWAY	SY																							
BITUMINOUS CONCRETE SNOWSHELF	SY																							
GRAVEL DRIVEWAY	SY																							
SUBTOTAL		0	122	112	660	17,899	9,289	4,344	0	0	0	20	16	0	1	2,944	2,772	5,417	303	151	4,522	99	3	
UNASSIGNED		50	18	8	65	1,791	901	436	30	30	30	5	4	30		296	228	543	27	19	458	11	7	
TOTAL		50	140	120	725	19,690	10,190	4,780	30	30	30	25	20	30	1	3,240	3,000	5,960	330	170	4,980	110	10	

ITEM	944001A	950005A	952001A	960002A	970006A	970007A	971001A	975002	980001	1200013	120002A	120002A	1200031A	1210101	1210102	1210108	1302000A	1302002A	1403101A	1403301A	
FURNISHING AND PLACING TOPSOIL	SY																				
TURF ESTABLISHMENT	SY	1380	1380																		
SELECTIVE CLEARING AND THINNING	LS																				
CONSTRUCTION FIELD OFFICE, MEDIUM	MO																				
TRAFFICPERSON (TOWN POLICE OFFICER)	EST																				
TRAFFICPERSON (UNIFORMED FLAGGER)	HR																				
MAINTENANCE AND PROTECTION OF TRAFFIC	LS																				
MOBILIZATION	LS																				
CONSTRUCTION STAKING	LS																				
REMOVAL OF EXISTING SIGNING	LS																				
RESET SIGN	EA																				
STREET IDENTIFICATION SIGN	SF																				
SIGN FACE - SHEET ALUMINUM - TYPE IX RETROREFLECTIVE SHEETING	SF																				
4" WHITE EPOXY RESIN PAVEMENT MARKINGS	LF																				
4" YELLOW EPOXY RESIN PAVEMENT MARKINGS	LF																				
EPOXY RESIN PAVEMENT MARKINGS, SYMBOLS AND LEGENDS	SF																				
ADJUST GATE BOX (WATER)	EA																				
ADJUST GATE BOX (GAS)	EA																				
MANHOLE FRAME AND COVER (SANITARY SEWER)	EA																				
RESET MANHOLE (SANITARY SEWER)	EA																				
SUBTOTAL		17,488	17,488	0	0	0	0	0	0	42	57	362	0	16,982	1,134	57	26	0	93		
UNASSIGNED		1,752	1,752	8			4,850						38	1,698	116				5		
TOTAL		19,240	19,240	1	8	30,000	4,850	1	1	42	57	400	50	18,680	1,250	57	26	5	93		

DESIGNER: JRE	 <b>Engineers Scientists Planners Designers</b> ISSUED FOR CONSTRUCTION DATE: JANUARY, 2020		PROJECT TITLE:	TOWN:	PROJECT NO.:
DRAFTER: TJM			CAMBRIDGE DRIVE NEIGHBORHOOD ROADWAY IMPROVEMENT PROJECT VARIOUS LOCATIONS	EAST HARTFORD, CONNECTICUT	42413.00
CHECKED BY: BAA					
APPROVED BY: SON			CADD FILENAME: EST-CAMBRIDGE-4241300 - ADDENDUM #1.DWG	DRAWING TITLE:	DRAWING NO.:
				DETAILED ESTIMATE	EST-02
					SHEET NO.:
					004 OF 294

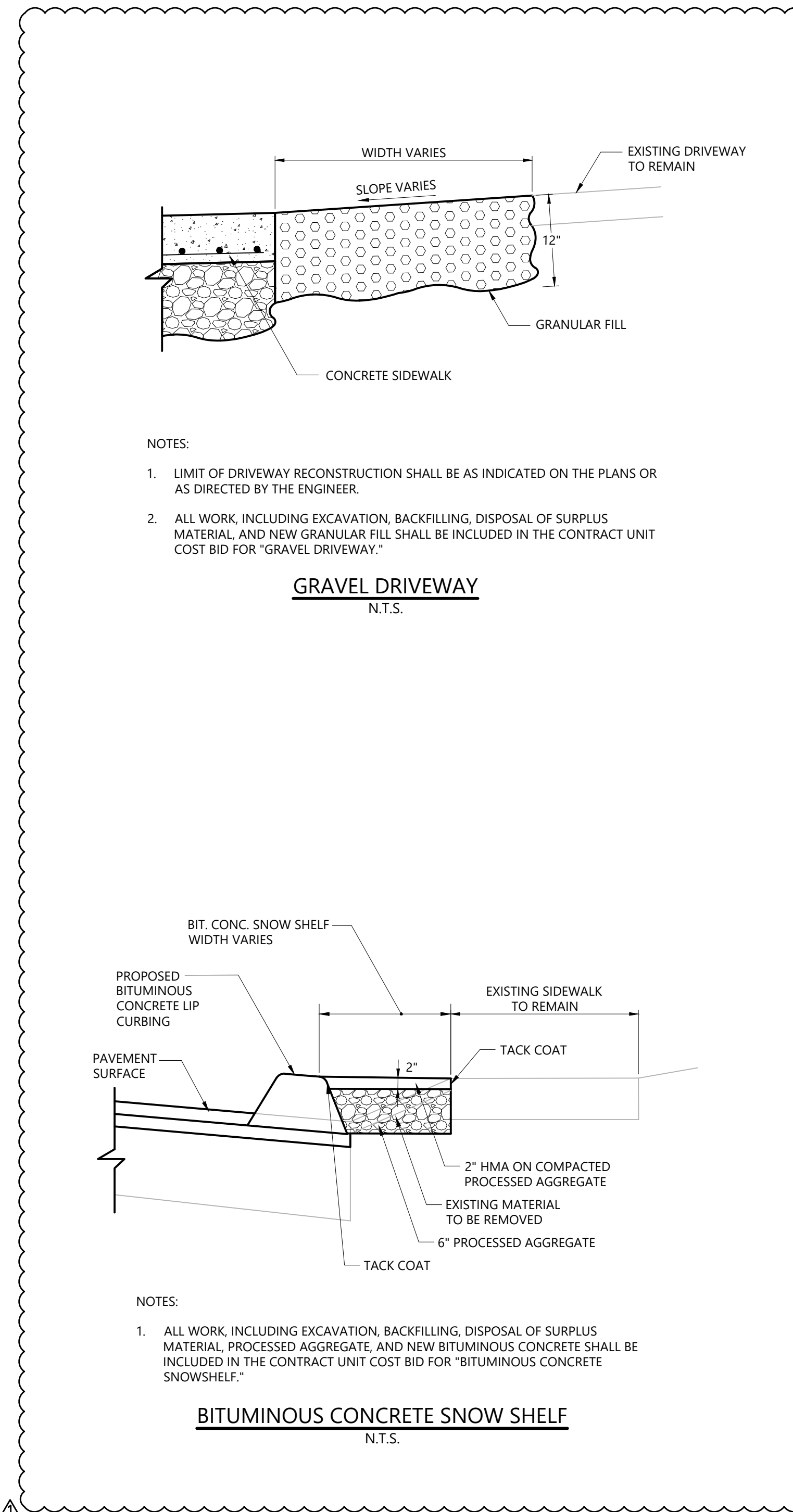




**NOTES:**

1. IN CASES WHERE THE SIDEWALKS ARE LOCATED WITHIN A FEW FEET OF THE CURB, THE RADIUS IS REPLACED WITH 18" FLARE ON EACH SIDE OF THE DRIVE. IN CASES WHERE THE SIDEWALK ABUTS THE CURB, THE CONTRACTOR SHALL USE A CONCRETE DRIVEWAY RAMP.
2. LIMIT OF DRIVEWAY RECONSTRUCTION SHALL BE AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
3. CONTRACTOR SHALL STRIKE-OFF, DOWN TO THE PAVEMENT SURFACE, AND REMOVE ANY BITUMINOUS CONCRETE CURBING TEMPORARILY CONSTRUCTED ACROSS THE DRIVEWAY WIDTH DURING CURBING OPERATIONS. THE REQUIRED 1 1/2" LIP SHALL BE INSTALLED FULLY IN ONE LIFT.
4. THE COST OF SAWCUT, EXCAVATION, AND REQUIRED TEMPORARY RAMPS SHALL BE INCLUDED IN THE CONTRACT UNIT COST OF THE BITUMINOUS CONCRETE DRIVEWAY CONSTRUCTED.

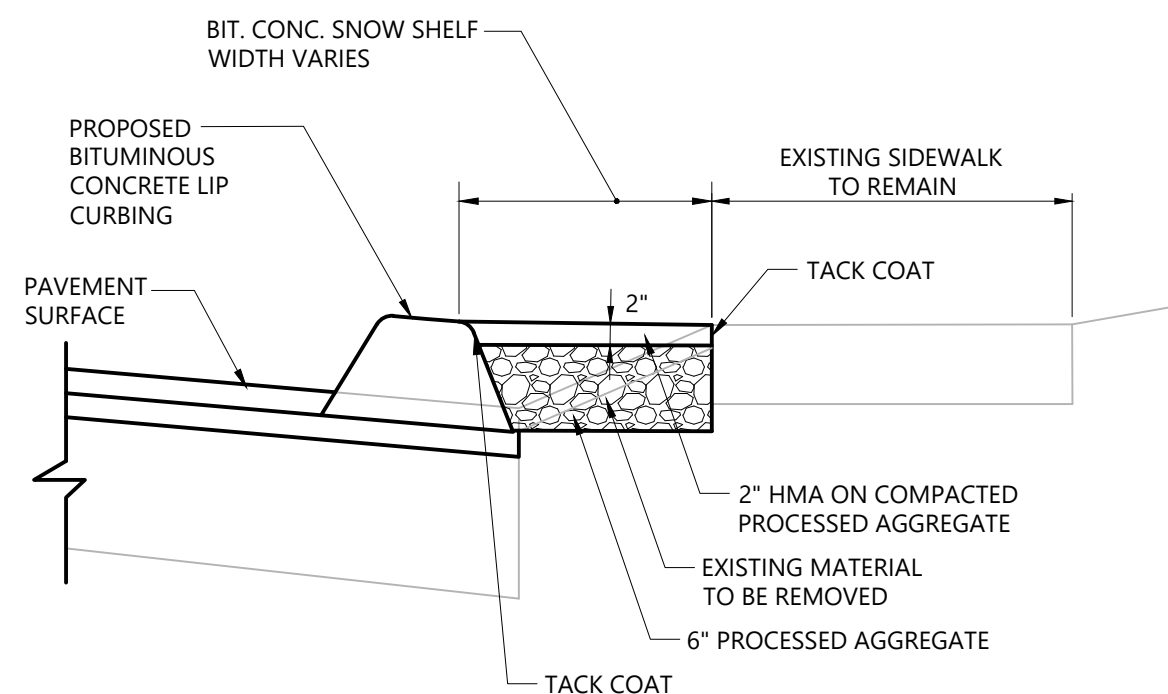
**BITUMINOUS CONCRETE DRIVEWAY APRON REPLACEMENT - RESIDENTIAL/COMMERCIAL**  
N.T.S.



**NOTES:**

1. LIMIT OF DRIVEWAY RECONSTRUCTION SHALL BE AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
2. ALL WORK, INCLUDING EXCAVATION, BACKFILLING, DISPOSAL OF SURPLUS MATERIAL, AND NEW GRANULAR FILL SHALL BE INCLUDED IN THE CONTRACT UNIT COST BID FOR "GRAVEL DRIVEWAY."

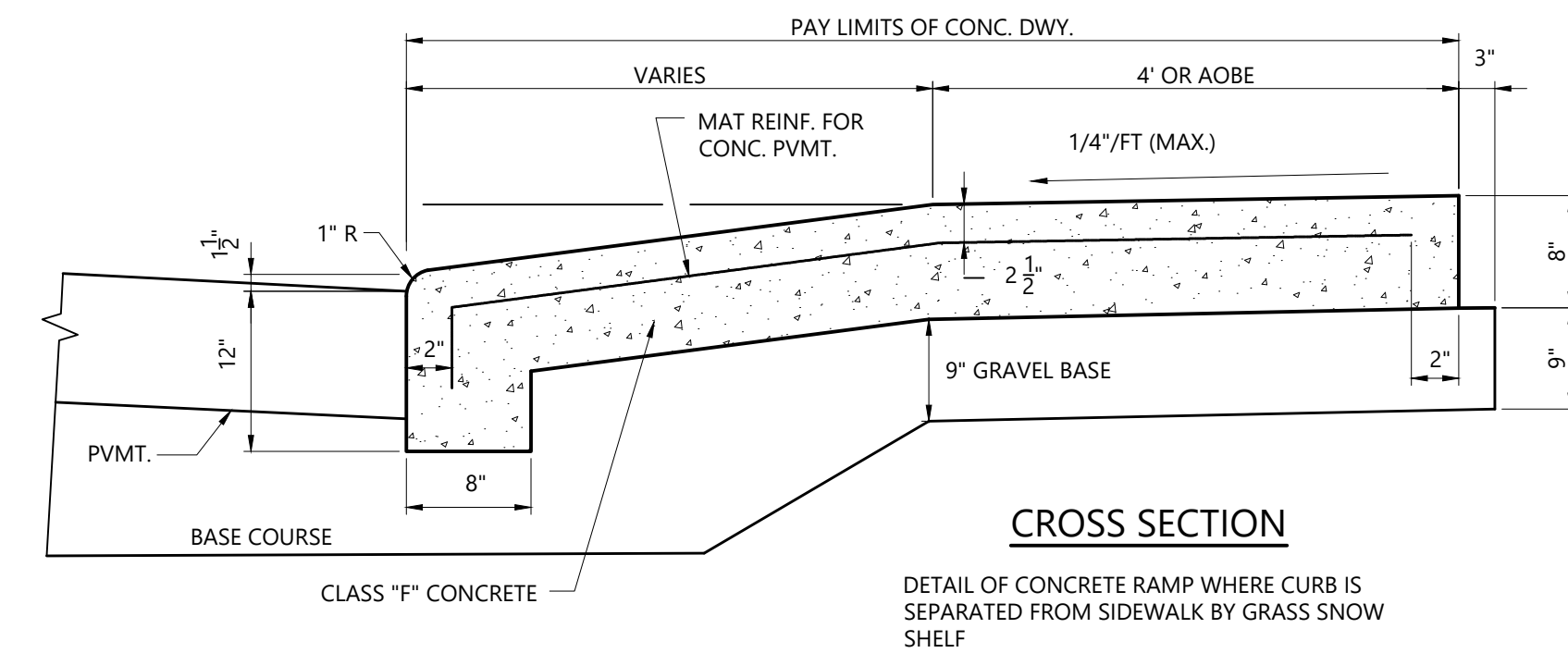
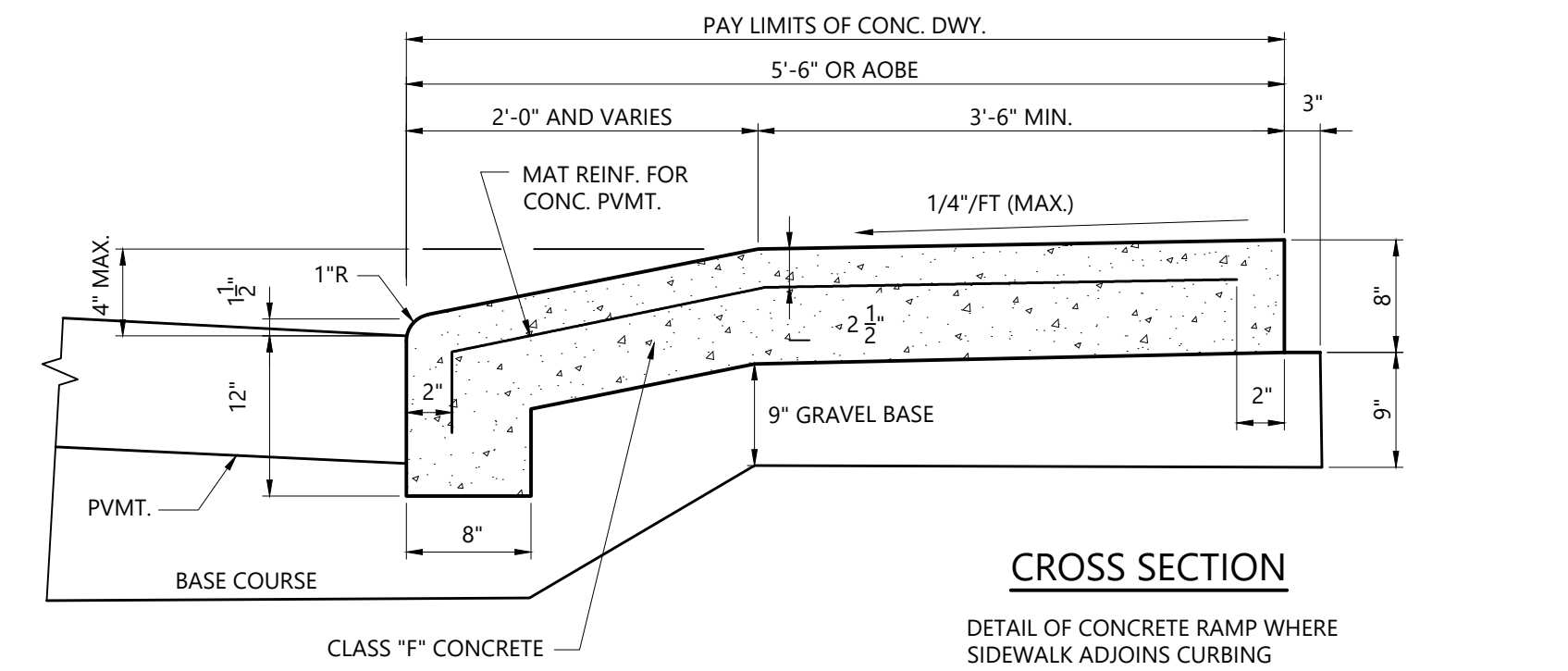
**GRAVEL DRIVEWAY**  
N.T.S.



**NOTES:**

1. ALL WORK, INCLUDING EXCAVATION, BACKFILLING, DISPOSAL OF SURPLUS MATERIAL, PROCESSED AGGREGATE, AND NEW BITUMINOUS CONCRETE SHALL BE INCLUDED IN THE CONTRACT UNIT COST BID FOR "BITUMINOUS CONCRETE SNOWSHELF."

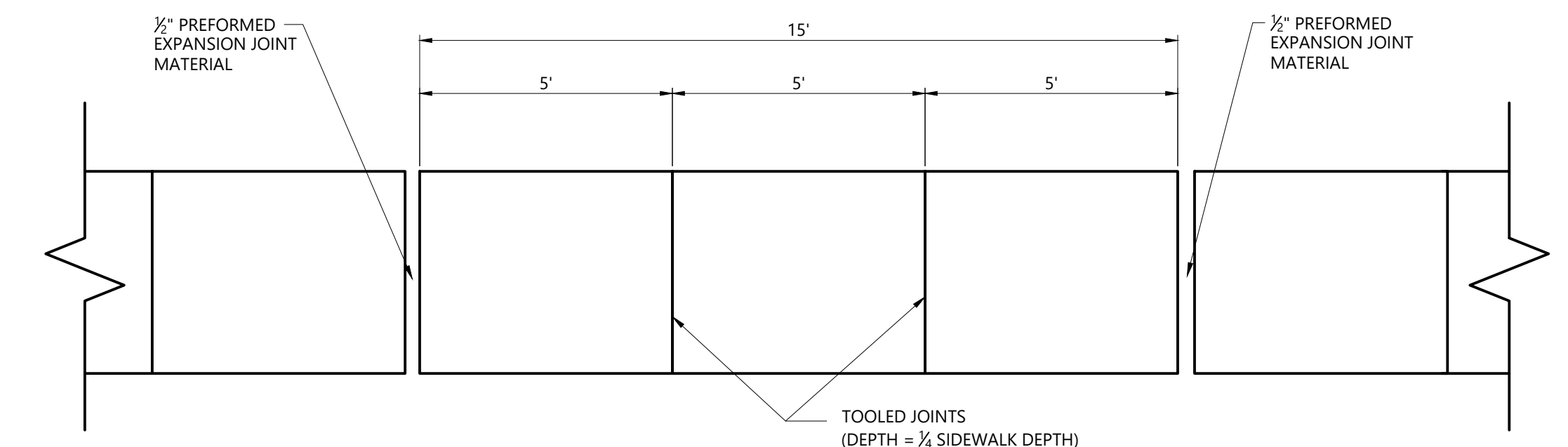
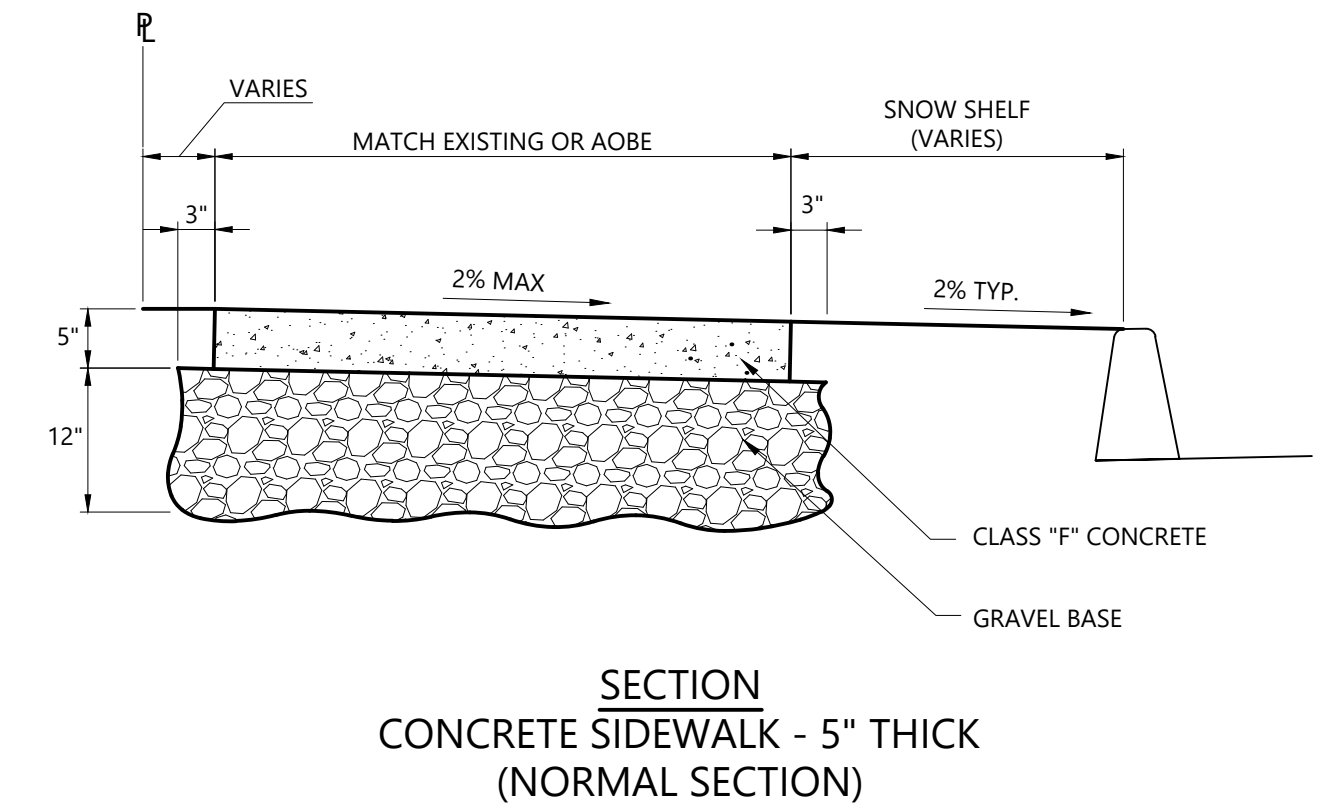
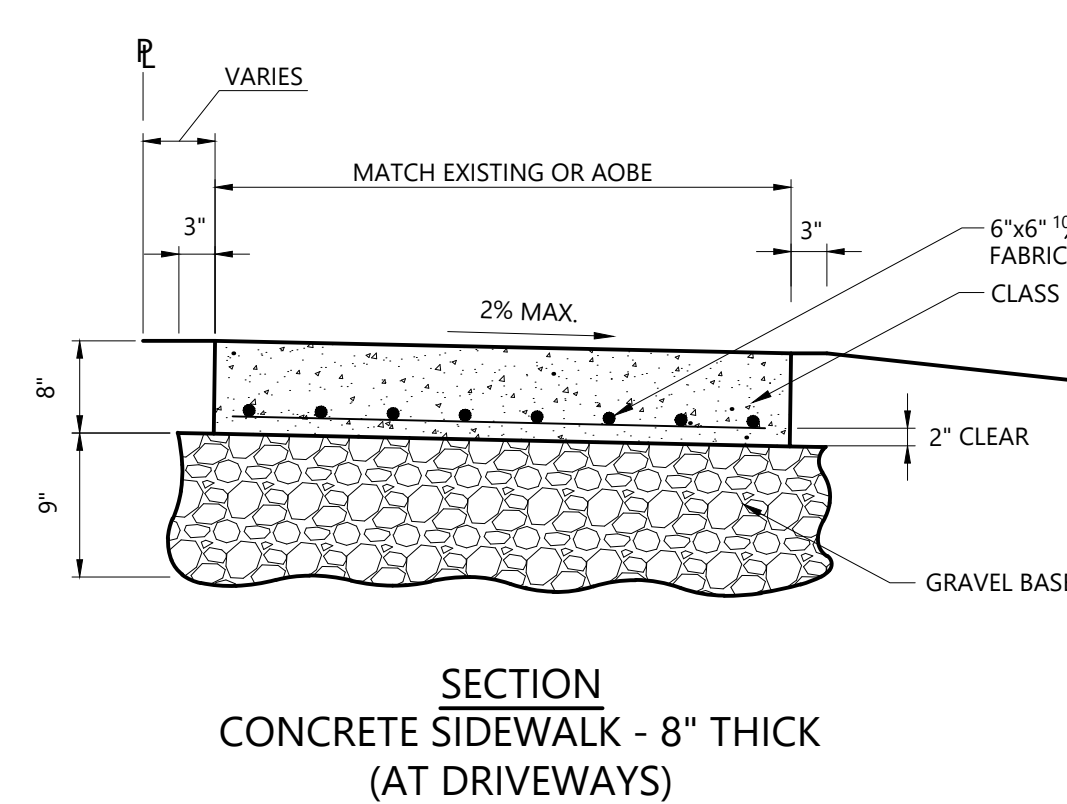
**BITUMINOUS CONCRETE SNOW SHELF**  
N.T.S.



**NOTES:**

1. 6" X 6" 1/4 WELDED WIRE FABRIC OR REINFORCING MATS OF CLOSER SPACING MAY BE USED.
2. ALL COSTS ASSOCIATED WITH CONSTRUCTING CONCRETE DRIVEWAY RAMP COMPLETE AS SHOWN SHALL BE MEASURED AND PAID FOR AS "CONCRETE DRIVEWAY RAMP".
3. SURFACE TREATMENT AND LAYOUT OF CONCRETE DRIVEWAY RAMP SHALL MATCH EXISTING CONDITIONS.

**CONCRETE DRIVEWAY RAMPS**  
N.T.S.

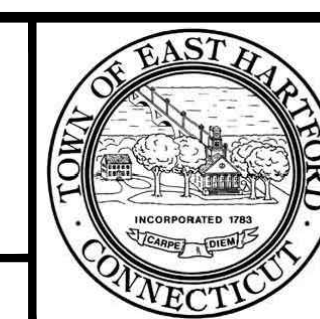


**TYPICAL SIDEWALK DETAIL**  
N.T.S.

REV.	DATE	DESCRIPTION	SHEET NO.
02/25/20	ADDED CONSTRUCTION DETAILS		007

DESIGNER: JRE
DRAFTER: TJM
CHECKED BY: BAA
APPROVED BY: SON

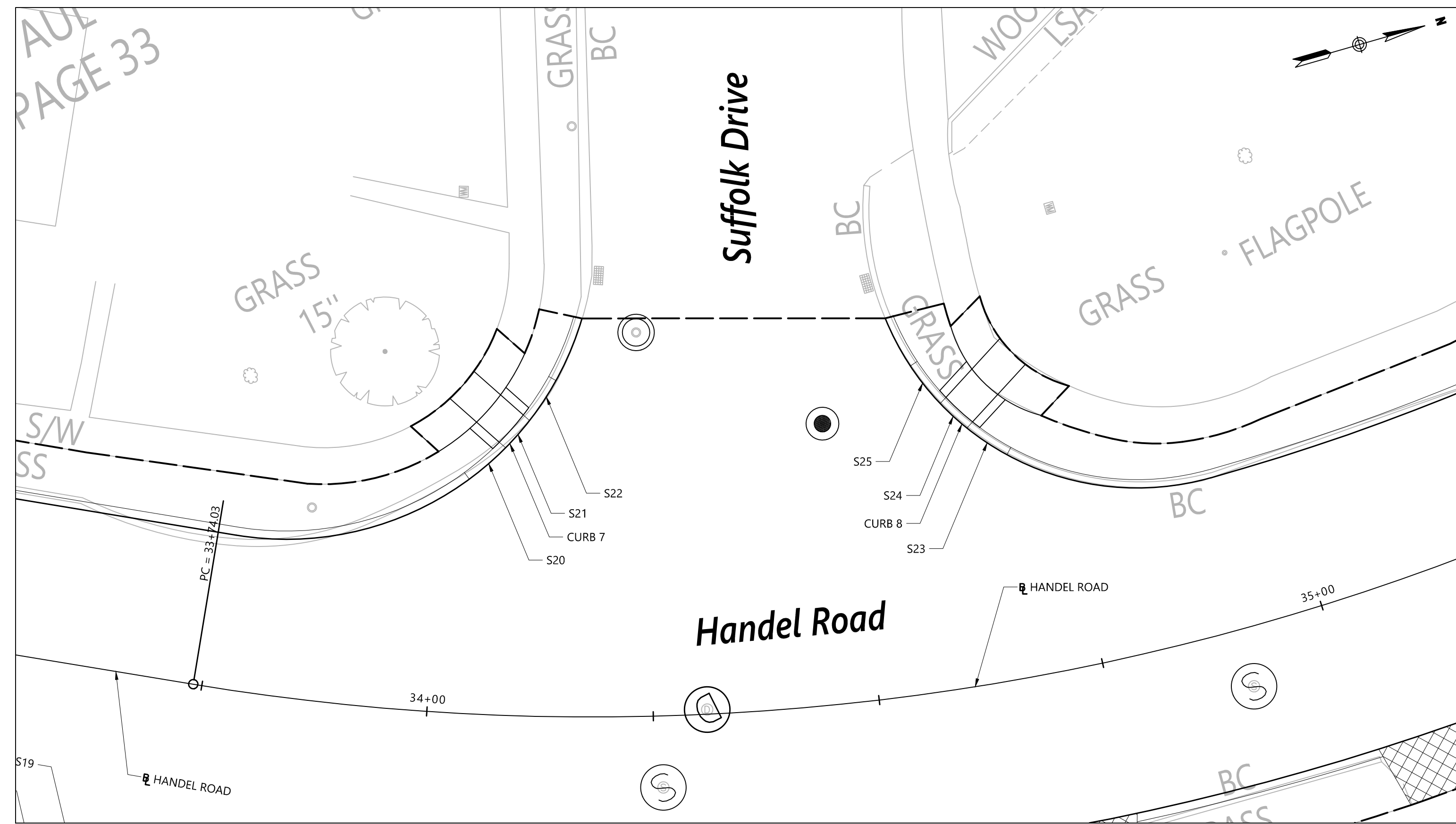
**vhb**  
Engineers Scientists Planners Designers  
ISSUED FOR CONSTRUCTION DATE: JANUARY, 2020



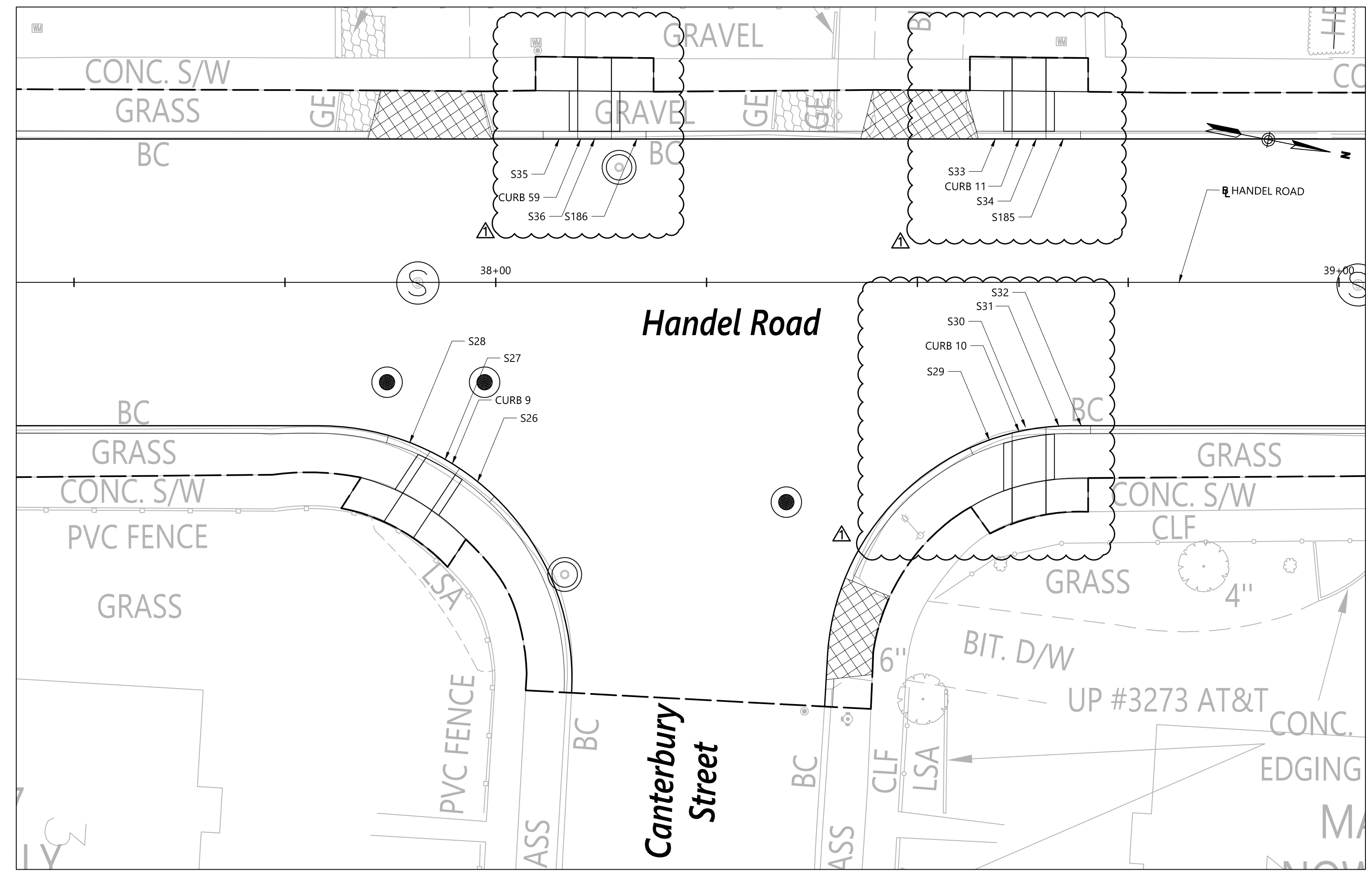
PROJECT TITLE:  
**CAMBRIDGE DRIVE NEIGHBORHOOD ROADWAY IMPROVEMENT PROJECT VARIOUS LOCATIONS**  
CADD FILENAME: MDS-4241300 - ADDENDUM #1.DWG

TOWN:  
**EAST HARTFORD, CONNECTICUT**  
DRAWING TITLE:  
**MISCELLANEOUS DETAILS**

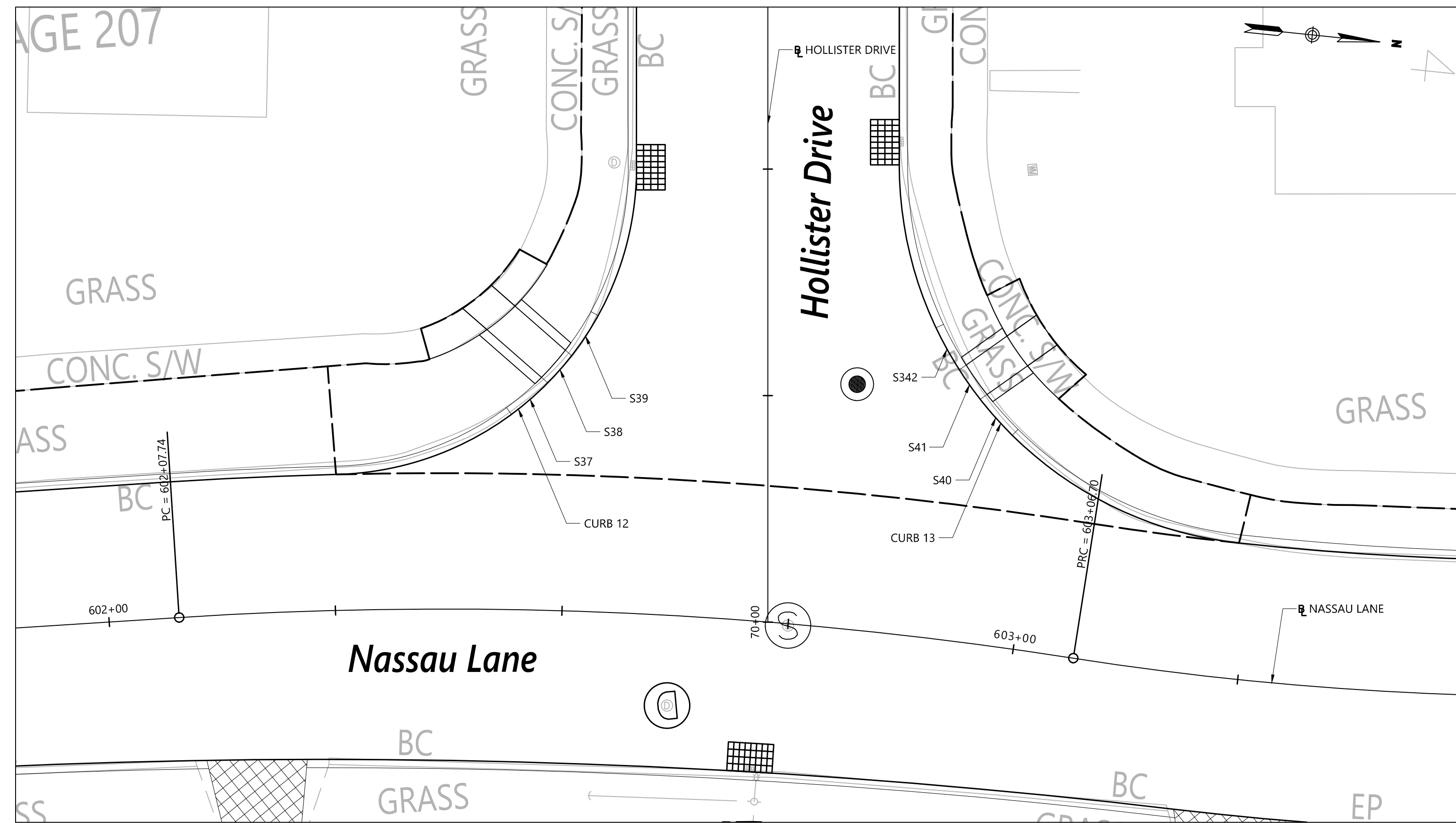
PROJECT NO.:  
**42413.00**  
DRAWING NO.:  
**MDS-03**  
SHEET NO.:  
**007 OF 294**



HANDEL ROAD AT SUFFOLK DRIVE



HANDEL ROAD AT CANTERBURY STREET



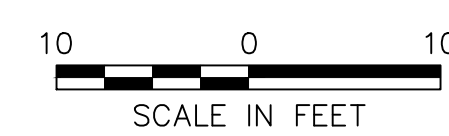
HOLLISTER DRIVE AT NASSAU LANE

Granite Curb Table						
CURB NO.	STATION	OFFSET	SEGMENT	RADIUS	LENGTH	TYPE
CURB 7	34+09.01	31.03' LT	S20	34'	4.1'	TRANSITION
			S21	34'	4.0'	FLUSH
			S22	34'	4.1'	TRANSITION
CURB 8	34+63.25	29.85' LT	S23	30'	4.1'	TRANSITION
			S24	30'	4.0'	FLUSH
			S25	30'	4.1'	TRANSITION
CURB 9	37+94.01	21.00' RT	S26	30'	4.1'	TRANSITION
			S27	30'	4.0'	FLUSH
			S28	30'	4.1'	TRANSITION
CURB 10	38+63.00	17.50' RT	S29	29'	4.1'	TRANSITION
			S30	29'	4.0'	FLUSH
			S31	29'	3.0'	TRANSITION
			S32	N/A*	1.1'	TRANSITION
CURB 11	38+63.24	17.00' LT	S33	N/A*	4.0'	TRANSITION
			S34	N/A*	4.0'	FLUSH
			S185	N/A*	4.1'	TRANSITION
CURB 59	38+11.72	17.00' LT	S35	N/A*	4.1'	TRANSITION
			S36	N/A*	4.0'	FLUSH
			S186	N/A*	4.1'	TRANSITION
CURB 12	70+27.87	22.93' LT	S37	34'	4.1'	TRANSITION
			S38	34'	4.0'	FLUSH
			S39	34'	4.1'	TRANSITION
CURB 13	70+26.18	22.24' RT	S40	42'	4.1'	TRANSITION
			S41	42'	4.0'	FLUSH
			S42	42'	4.1'	TRANSITION

\* STRAIGHT GRANITE STONE CURBING

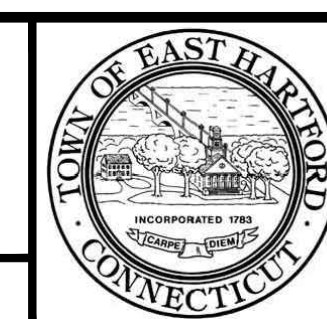
NOTE:  
1. STATION AND OFFSET SHOWN IN GRANITE CURB TABLES IS TO THE GUTTER LINE AT THE CENTER OF THE FLUSH GRANITE CURB.  
2. CURVED AND STRAIGHT GRANITE CURBING UTILIZED FOR SIDEWALK RAMPS SHALL BE SET INTO CLASS "C" CONCRETE.

REV.	DATE	DESCRIPTION	SHEET NO.
1	02/27/20	REVISED RAMP AND CURB LAYOUT, CURB TABLE, AND CALLOFFS	069



DESIGNER:  
EAN  
DRAFTER:  
JRE  
CHECKED BY:  
BAA  
APPROVED BY: SON

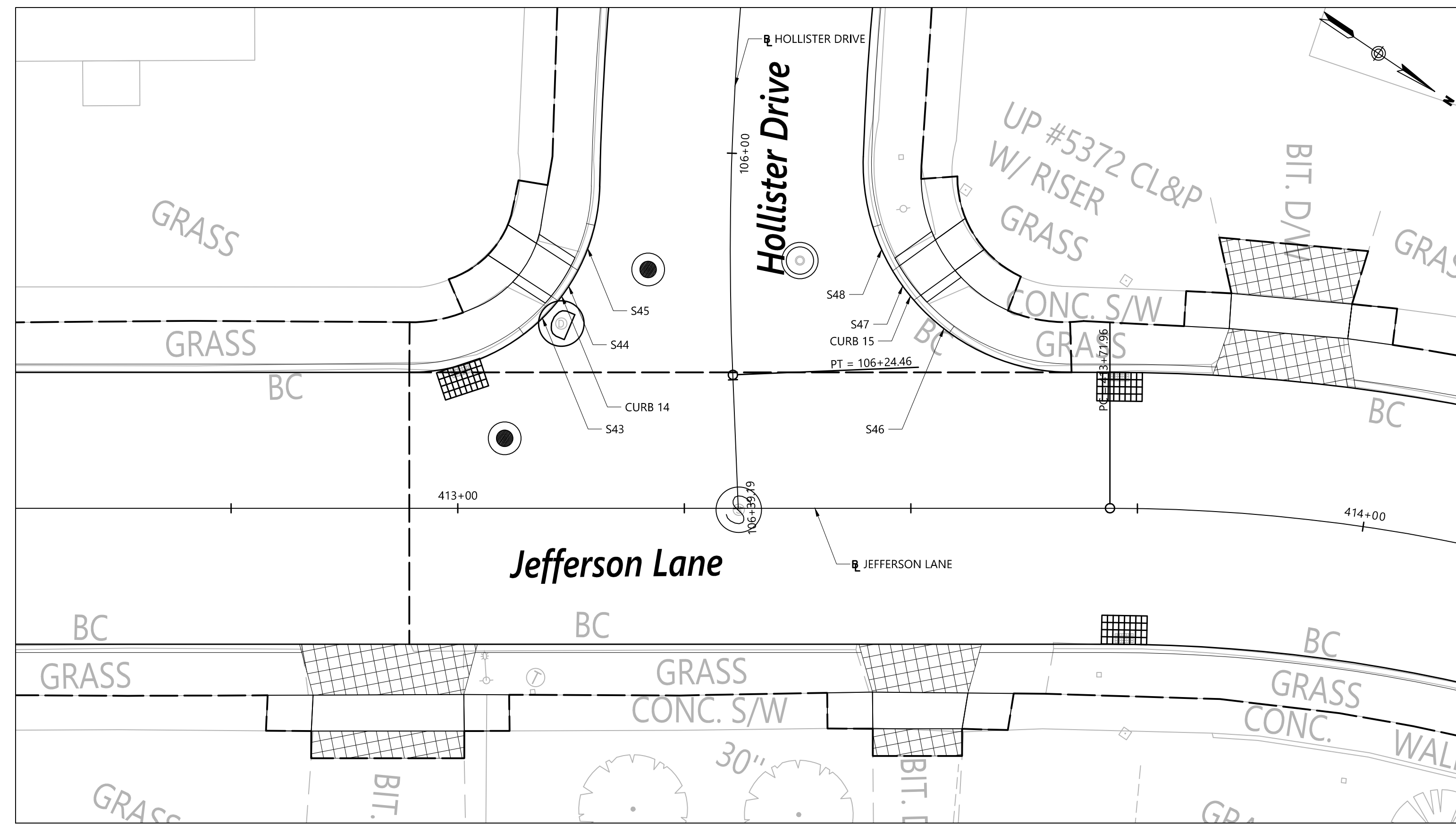
**vhb**  
Engineers Scientists Planners Designers  
ISSUED FOR CONSTRUCTION DATE: JANUARY, 2020



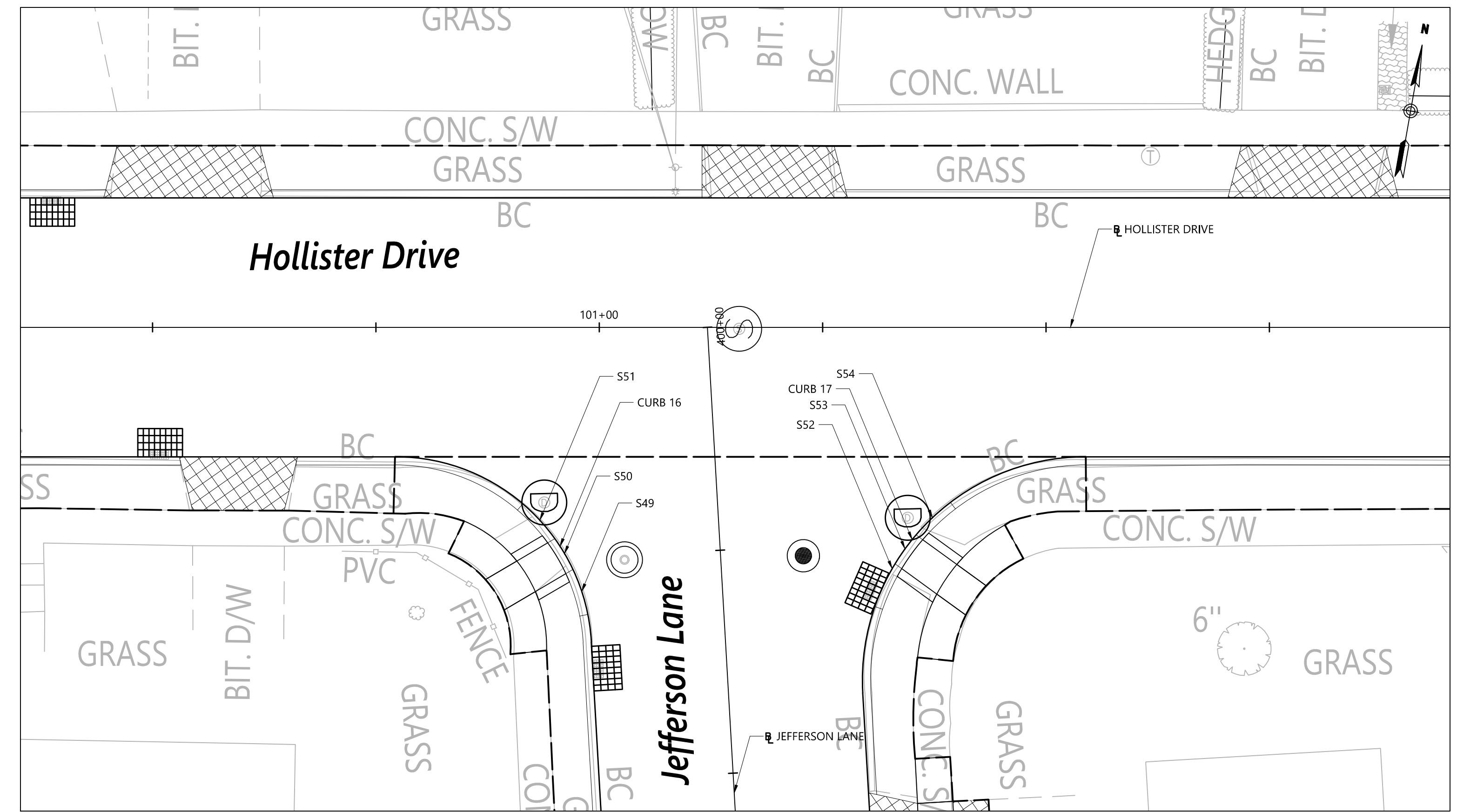
PROJECT TITLE:  
CAMBRIDGE DRIVE NEIGHBORHOOD  
ROADWAY IMPROVEMENT PROJECT  
VARIOUS LOCATIONS  
CADD FILENAME: TIE-4241300 - ADDENDUM #1.DWG

TOWN:  
EAST HARTFORD, CONNECTICUT  
DRAWING TITLE:  
GRANITE CURB  
TIE PLAN

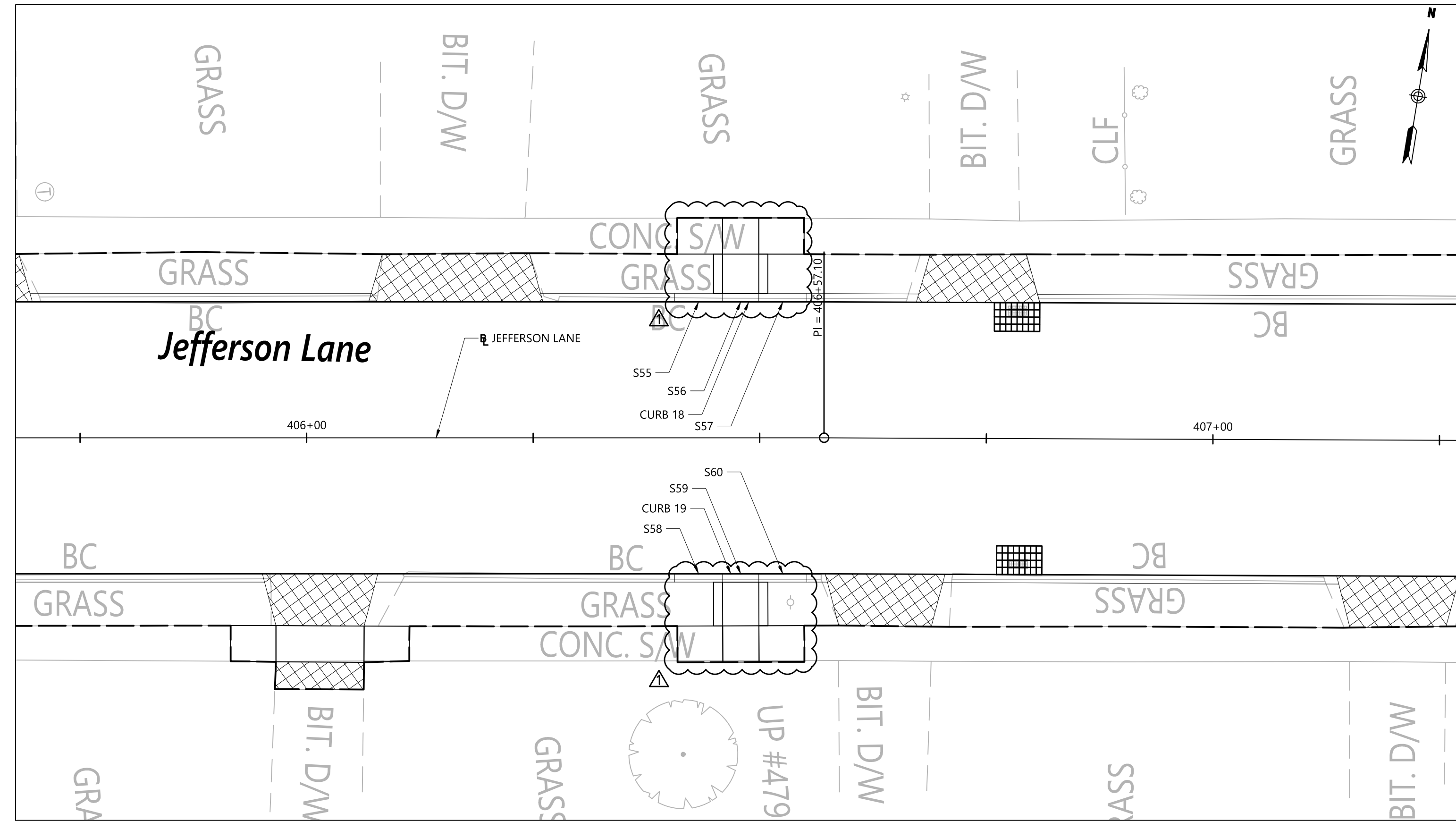
PROJECT NO.:  
42413.00  
DRAWING NO.:  
TIE-02  
SHEET NO.:  
069 OF 294



HOLLISTER DRIVE AT JEFFERSON LANE



JEFFERSON LANE AT HOLLISTER DRIVE



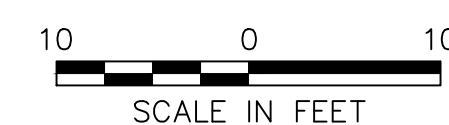
JEFFERSON LANE

Granite Curb Table						
CURB NO.	STATION	OFFSET	SEGMENT	RADIUS	LENGTH	TYPE
CURB 14	106+14.46	17.84' RT	S43	21'	4.1'	TRANSITION
			S44	21'	4.0'	FLUSH
			S45	21'	4.1'	TRANSITION
CURB 15	106+14.87	19.01' LT	S46	23'	4.1'	TRANSITION
			S47	23'	4.0'	FLUSH
			S48	23'	4.1'	TRANSITION
CURB 16	400+24.39	17.43' RT	S49	22'	5.3'	TRANSITION
			S50	22'	4.0'	FLUSH
			S51	22'	5.3'	TRANSITION
CURB 17	400+26.04	20.64' LT	S52	25'	5.3'	TRANSITION
			S53	25'	4.0'	FLUSH
			S54	25'	5.3'	TRANSITION
CURB 18	406+47.89	15.00' LT	S55	N/A*	5.3'	TRANSITION
			S56	N/A*	4.0'	FLUSH
			S57	N/A*	5.3'	TRANSITION
CURB 19	406+47.89	15.00' RT	S58	N/A*	5.3'	TRANSITION
			S59	N/A*	4.0'	FLUSH
			S60	N/A*	5.3'	TRANSITION

\* STRAIGHT GRANITE STONE CURBING

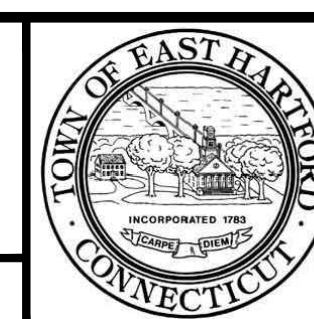
NOTE:  
 1. STATION AND OFFSET SHOWN IN GRANITE CURB TABLES IS TO THE GUTTER LINE AT THE CENTER OF THE FLUSH GRANITE CURB.  
 2. CURVED AND STRAIGHT GRANITE CURBING UTILIZED FOR SIDEWALK RAMP SHALL BE SET INTO CLASS "C" CONCRETE.

REV.	DATE	DESCRIPTION	REVISIONS	SHEET NO.
02/27/20	REVISED RAMP LAYOUT			070



DESIGNER: EAN  
 DRAFTER: JRE  
 CHECKED BY: BAA  
 APPROVED BY: SON

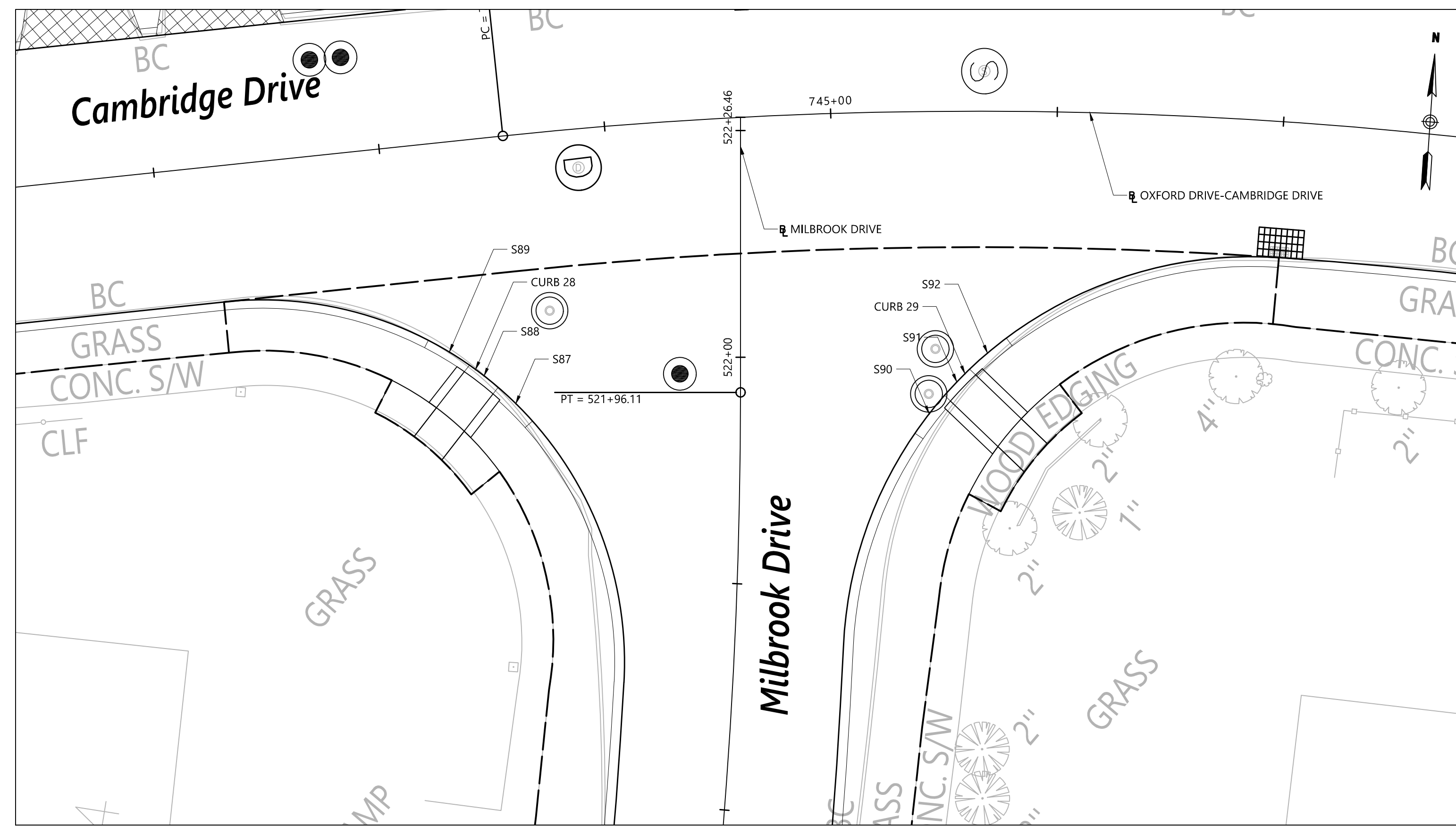
**vhb**  
 Engineers Scientists Planners Designers  
 ISSUED FOR CONSTRUCTION DATE: JANUARY, 2020



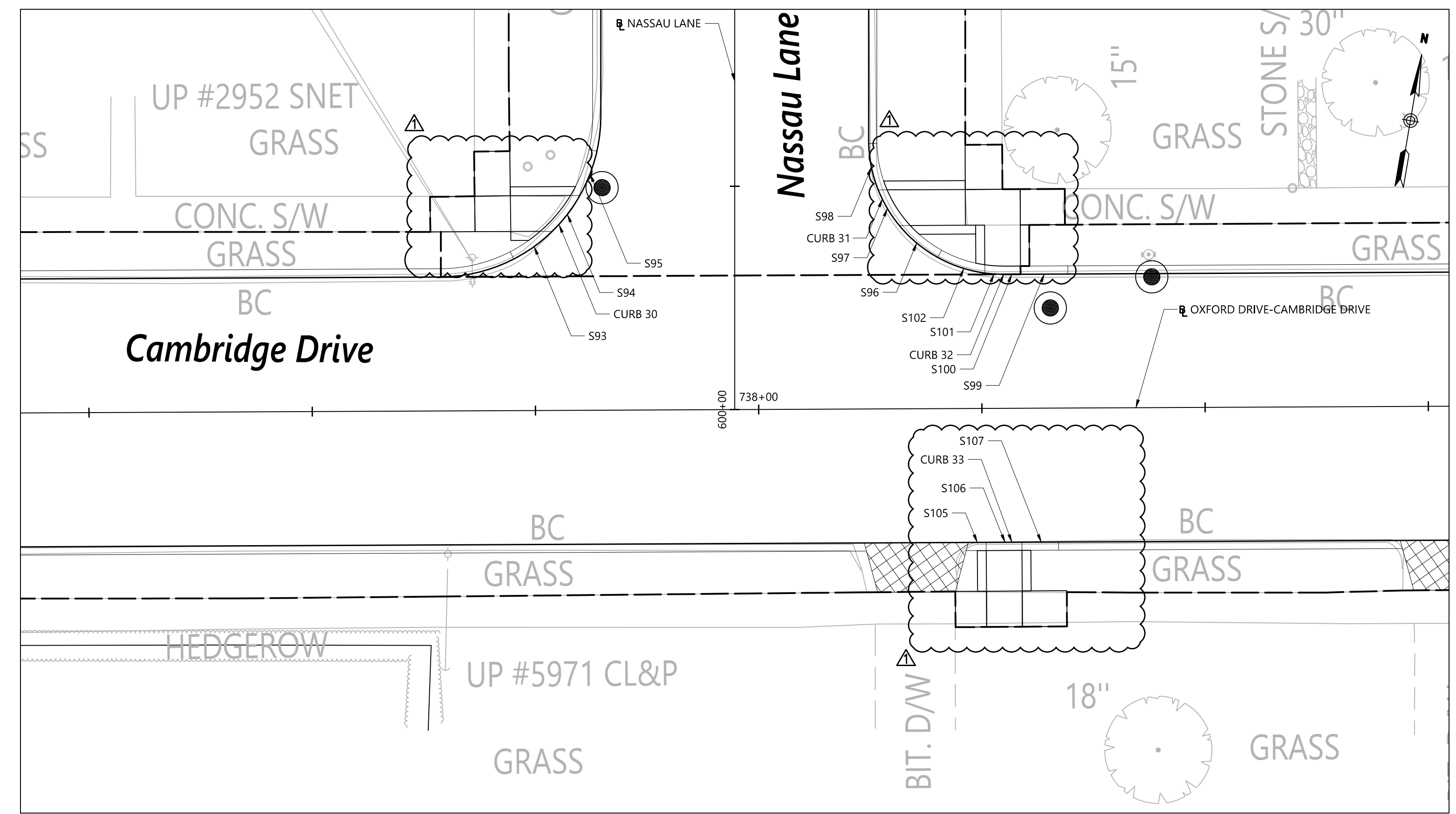
PROJECT TITLE:  
 CAMBRIDGE DRIVE NEIGHBORHOOD  
 ROADWAY IMPROVEMENT PROJECT  
 VARIOUS LOCATIONS  
 CADD FILENAME: TIE-4241300 - ADDENDUM #1.DWG

TOWN:  
 EAST HARTFORD, CONNECTICUT  
 DRAWING TITLE:  
 GRANITE CURB  
 TIE PLAN

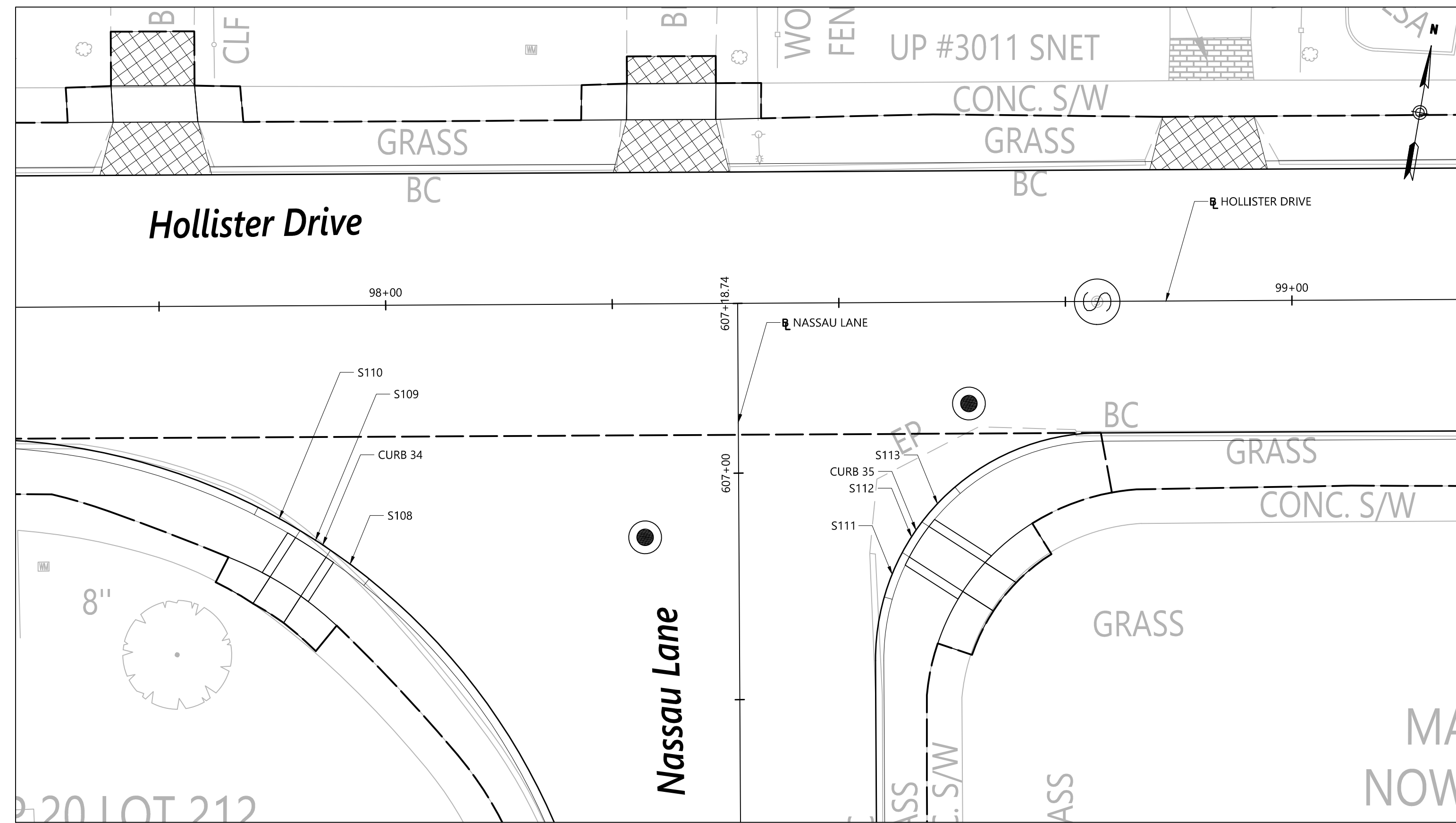
PROJECT NO.: 42413.00  
 DRAWING NO.: TIE-03  
 SHEET NO.: 070 OF 294



MILBROOK DRIVE AT CAMBRIDGE DRIVE



CAMBRIDGE DRIVE AT NASSAU LANE



NASSAU LANE AT HOLLISTER DRIVE

Granite Curb Table						
CURB NO.	STATION	OFFSET	SEGMENT	RADIUS	LENGTH	TYPE
CURB 28	521+97.93	28.30' LT	S87	40'	2.9'	TRANSITION
			S88	40'	4.0'	FLUSH
			S89	40'	2.9'	TRANSITION
CURB 29	521+97.27	23.86' RT	S90	45'	2.9'	TRANSITION
			S91	45'	4.0'	FLUSH
			S92	45'	2.9'	TRANSITION
CURB 30	600+21.86	18.74' LT	S93	18'	5.3'	TRANSITION
			S94	18'	5.1'	FLUSH
			S95	18'	5.3'	TRANSITION
CURB 31	600+22.50	17.09' RT	S96	15'	5.6'	TRANSITION
			S97	15'	4.7'	FLUSH
			S98	15'	5.3'	TRANSITION
CURB 32	738+27.41	15.00' LT	S99	N/A*	4.1'	TRANSITION
			S100	N/A*	1.9'	FLUSH
			S101	15'	2.1'	FLUSH
CURB 33	738+27.41	15.00' RT	S102	15'	5.6'	TRANSITION
			S105	N/A*	2'	TRANSITION
			S106	N/A*	4.0'	FLUSH
CURB 34	606+92.86	46.73' LT	S107	N/A*	4.1'	TRANSITION
			S108	70'	5.3'	TRANSITION
			S109	70'	4.0'	FLUSH
CURB 35	606+92.86	19.04' RT	S110	70'	5.3'	TRANSITION
			S111	25'	5.3'	TRANSITION
			S112	25'	4.0'	FLUSH
			S113	25'	5.3'	TRANSITION

\* STRAIGHT GRANITE STONE CURBING

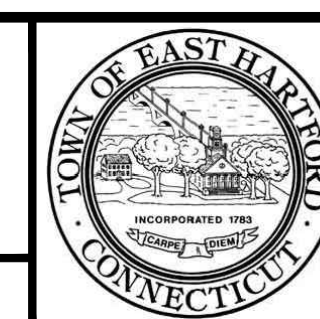
NOTE:  
1. STATION AND OFFSET SHOWN IN GRANITE CURB TABLES IS TO THE GUTTER LINE AT THE CENTER OF THE FLUSH GRANITE CURB.  
2. CURVED AND STRAIGHT GRANITE CURBING UTILIZED FOR SIDEWALK RAMP SHALL BE SET INTO CLASS "C" CONCRETE.

REV.	DATE	DESCRIPTION	SHEET NO.
02/27/20	REVISED RAMP AND CURB LAYOUT, CURB TABLE, AND CALLOFFS	072	



DESIGNER: EAN  
DRAFTER: JRE  
CHECKED BY: BAA  
APPROVED BY: SON

**vhb**  
Engineers Scientists Planners Designers  
ISSUED FOR CONSTRUCTION DATE: JANUARY, 2020

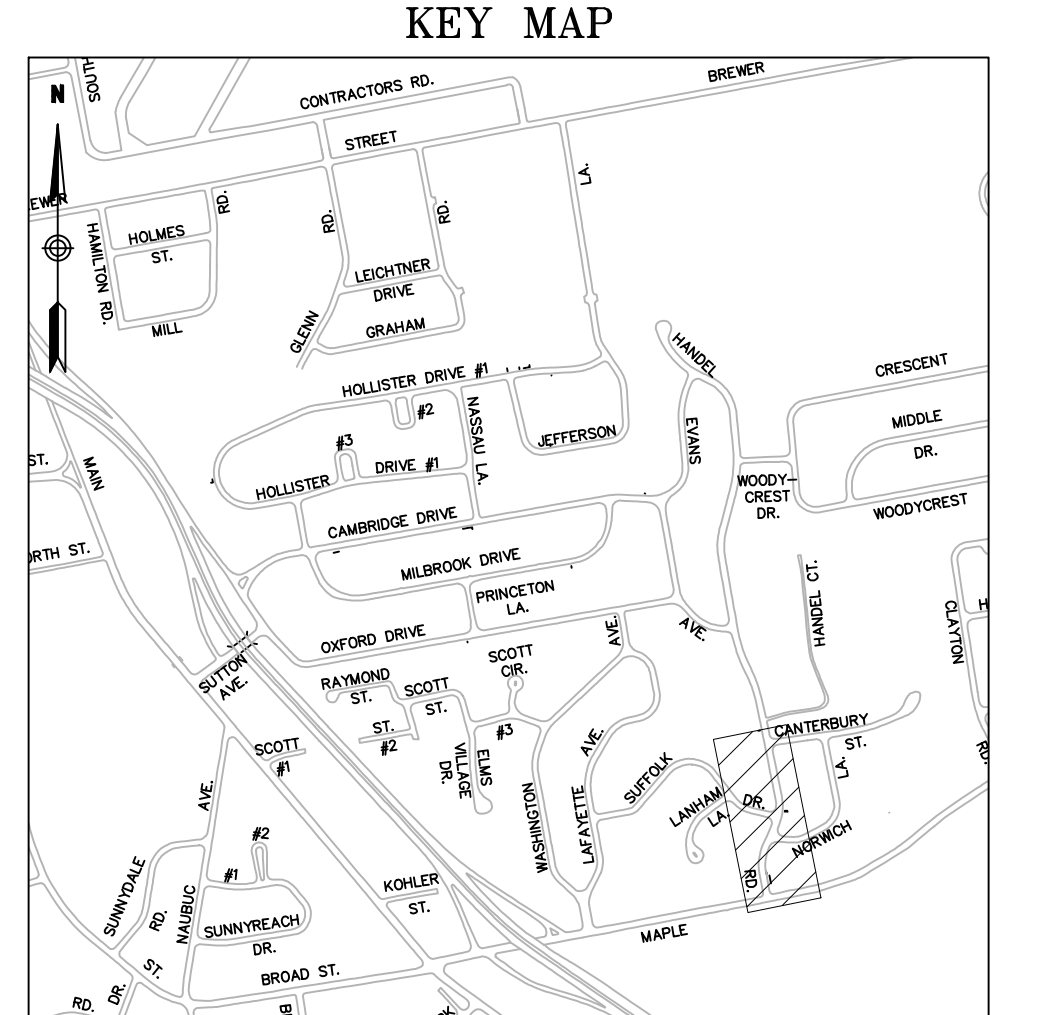
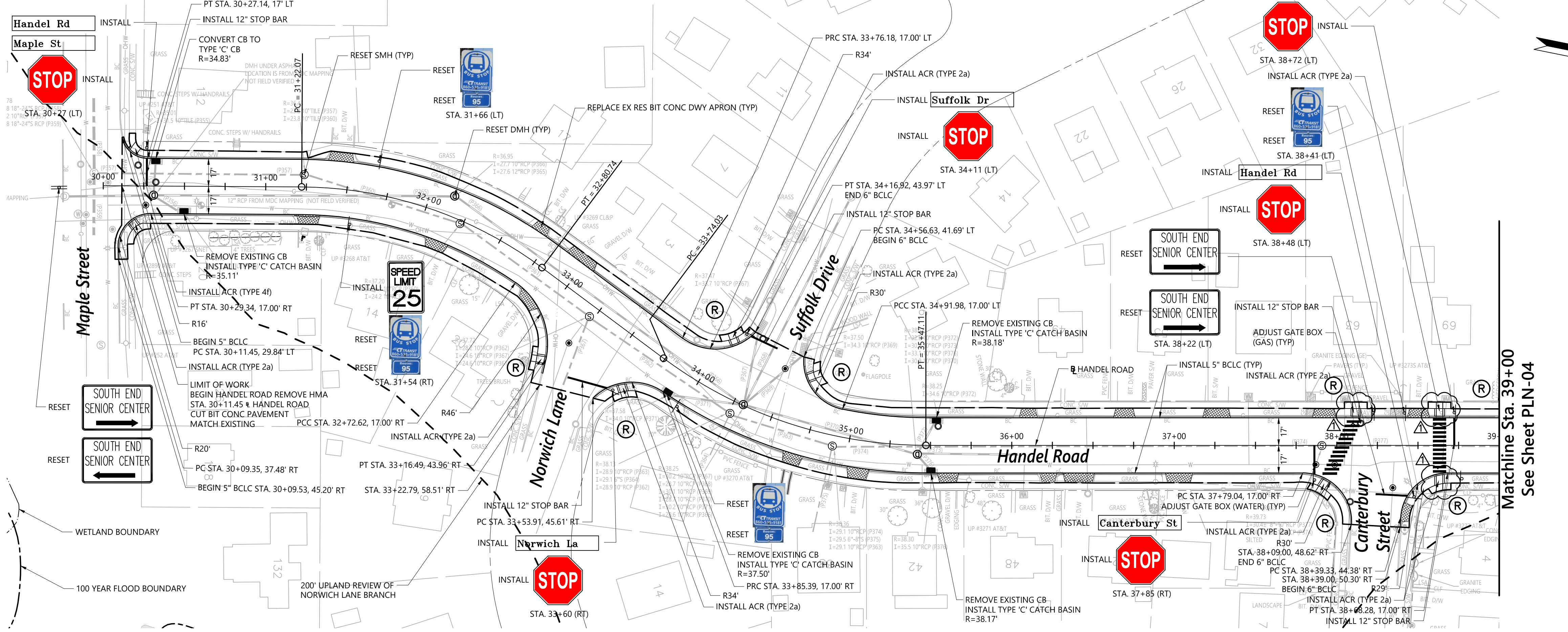


PROJECT TITLE:  
CAMBRIDGE DRIVE NEIGHBORHOOD ROADWAY IMPROVEMENT PROJECT VARIOUS LOCATIONS  
CADD FILENAME: TIE-4241300 - ADDENDUM #1.DWG

TOWN: EAST HARTFORD, CONNECTICUT  
DRAWING TITLE: GRANITE CURB TIE PLAN

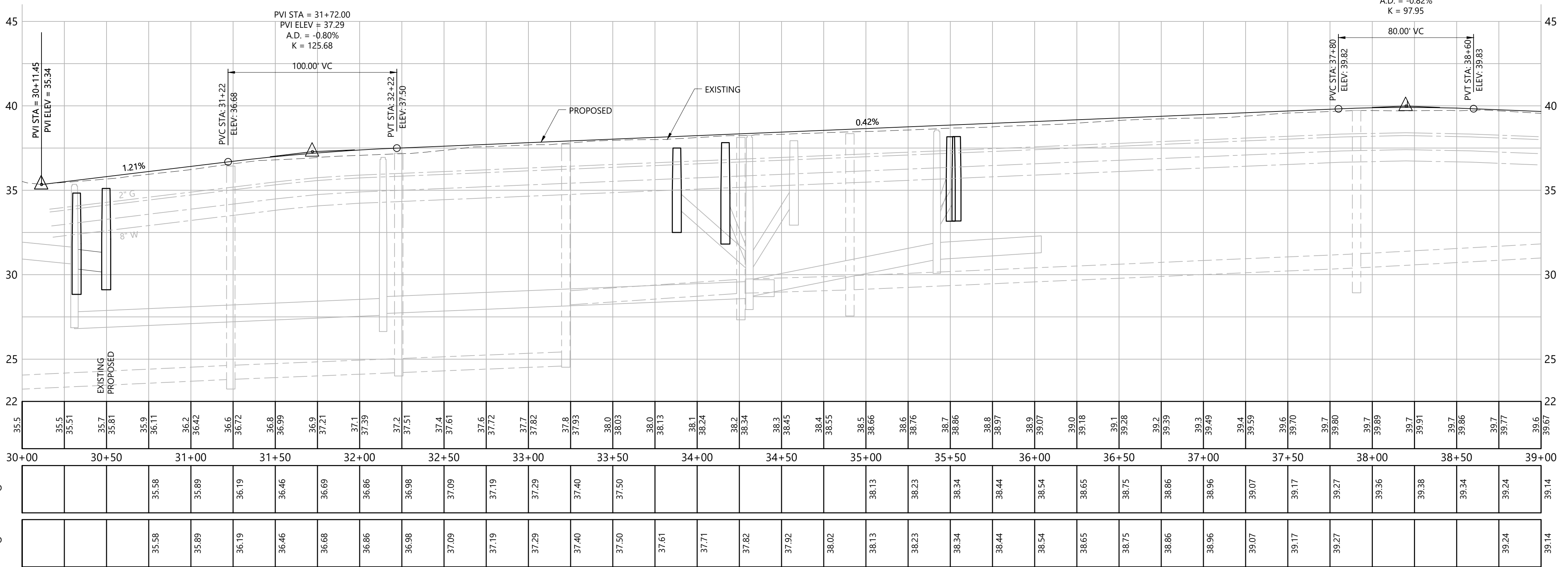
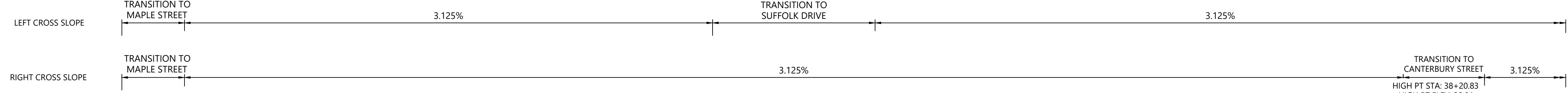
PROJECT NO.: 42413.00  
DRAWING NO.: TIE-05  
SHEET NO.: 072 OF 294





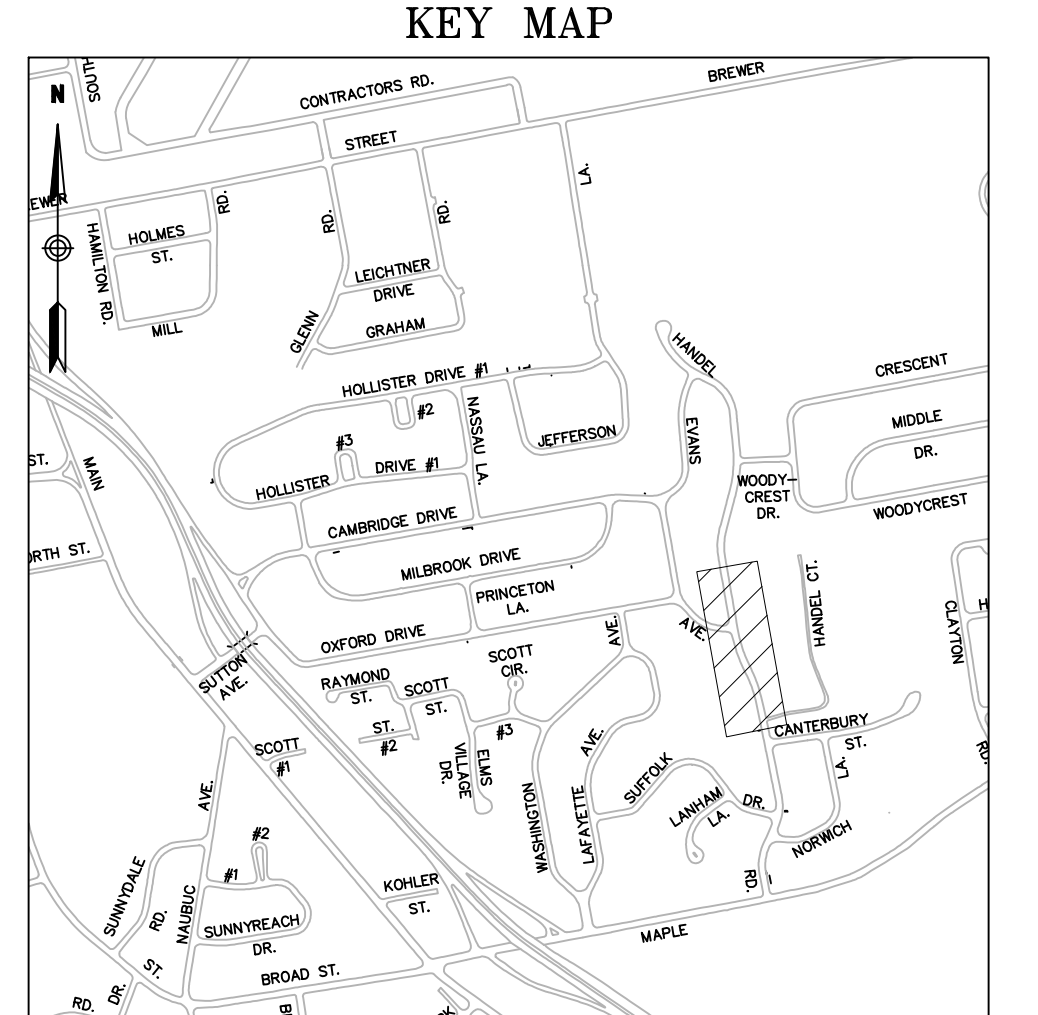
**LEGEND**

- REPLACE EX RES BIT CONC DWY APRON
- REPLACE EX CONC BIT CONC DWY APRON
- REPLACE EX CONC DWY APRON
- RIGHT OF ENTRY TO BE ACQUIRED (BY TOWN)



- NOTES:
- THE CONTRACTOR SHALL COORDINATE AND EXCAVATE TEST PITS AT THE ANTICIPATED UTILITY CROSSING LOCATIONS WITH THE PROPOSED DRAINAGE STRUCTURES AND PIPES SEVEN DAYS PRIOR TO CONSTRUCTING THE DRAINAGE IMPROVEMENTS AS REQUIRED AND AS APPROVED BY THE ENGINEER. MEASUREMENTS TO THE SERVICES AND MAINS SHALL BE TAKEN AND PROVIDED TO THE ENGINEER TO DETERMINE ANY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY UTILITY ADJUSTMENTS NECESSARY WITH THE UTILITY COMPANIES AND THE ENGINEER BEFORE COMMENCING WITH DRAINAGE IMPROVEMENTS.
  - THE CONTRACTOR SHALL REPLACE ANY CURBING ALONG DRIVEWAY APRONS AND DRIVEWAYS DISTURBED OR REMOVED DURING CONSTRUCTION WITH EQUIVALENT CURBING AS APPROVED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE DRIVEWAY RAMP WORK AND SHALL NOT BE MEASURED FOR PAYMENT.
  - FOR THE SPECIFIED DRIVEWAYS:  
SEE SPECIAL PROVISIONS FOR DRIVEWAY RECONSTRUCTION TABLES.
  - THE LIMIT OF WORK CALLOUT AT INTERSECTION ROADWAYS REPRESENTS THE PAY LIMIT FOR EACH ROADWAY.
  - THE CONTRACTOR SHALL REGRADE AND REESTABLISH VEGETATION AT THE BACK OF THE PROPOSED SIDEWALK AND SIDEWALK RAMPS TO THE LIMITS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROTECT THE RIGHT OF WAY BOUNDARY DURING THE CONSTRUCTION OF THE SIDEWALK AND SIDEWALK RAMPS. ANY DAMAGE TO THE RIGHT OF WAY BOUNDARY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
  - SEE INTERSECTION GRADING PLANS FOR EDGE OF PAYMENT ELEVATIONS NOT SHOWN ON THIS SHEET.
  - THE CONTRACTOR SHALL RESET FENCES THAT ARE AFFECTED BY THE CONSTRUCTION OF SIDEWALK AND SIDEWALK RAMPS. THE COST TO RESET FENCE SHALL BE PAID FOR UNDER THE VARIOUS RESET FENCE ITEMS.
  - THE CONTRACTOR SHALL PROTECT LANDSCAPED AREAS WITHIN THE LIMITS OF WORK WHERE POSSIBLE. LANDSCAPED AREAS THAT ARE DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED. THE COST TO RESTORE LANDSCAPED AREAS SHALL BE INCLUDED IN THE GENERAL COST OF WORK.

<p>DESIGNER: JRE</p> <p>DRAFTER: TJM</p> <p>CHECKED BY: BAA</p> <p>APPROVED BY: SON</p>	<p><b>Engineers Scientists Planners Designers</b></p> <p>ISSUED FOR CONSTRUCTION DATE: JANUARY, 2020</p>	<p>PROJECT TITLE:</p> <p style="text-align: center;"><b>CAMBRIDGE DRIVE NEIGHBORHOOD ROADWAY IMPROVEMENT PROJECT VARIOUS LOCATIONS</b></p> <p>CADD FILENAME: PLN-HANDEL-4241300 - ADDENDUM #1.DWG</p>	<p>TOWN:</p> <p style="text-align: center;"><b>EAST HARTFORD, CONNECTICUT</b></p> <p>DRAWING TITLE:</p> <p style="text-align: center;"><b>CONSTRUCTION PLAN HANDEL ROAD</b></p>								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>SHEET NO.</th> </tr> <tr> <td>02/27/20</td> <td></td> <td>REVISED SIDEWALK RAMP AND CURB LAYOUT</td> <td>078</td> </tr> </table>	REV.	DATE	DESCRIPTION	SHEET NO.	02/27/20		REVISED SIDEWALK RAMP AND CURB LAYOUT	078		<p>PROJECT NO.:</p> <p style="text-align: center;"><b>42413.00</b></p> <p>DRAWING NO.:</p> <p style="text-align: center;"><b>PLN-03</b></p> <p>SHEET NO.:</p> <p style="text-align: center;"><b>078 OF 294</b></p>	
REV.	DATE	DESCRIPTION	SHEET NO.								
02/27/20		REVISED SIDEWALK RAMP AND CURB LAYOUT	078								



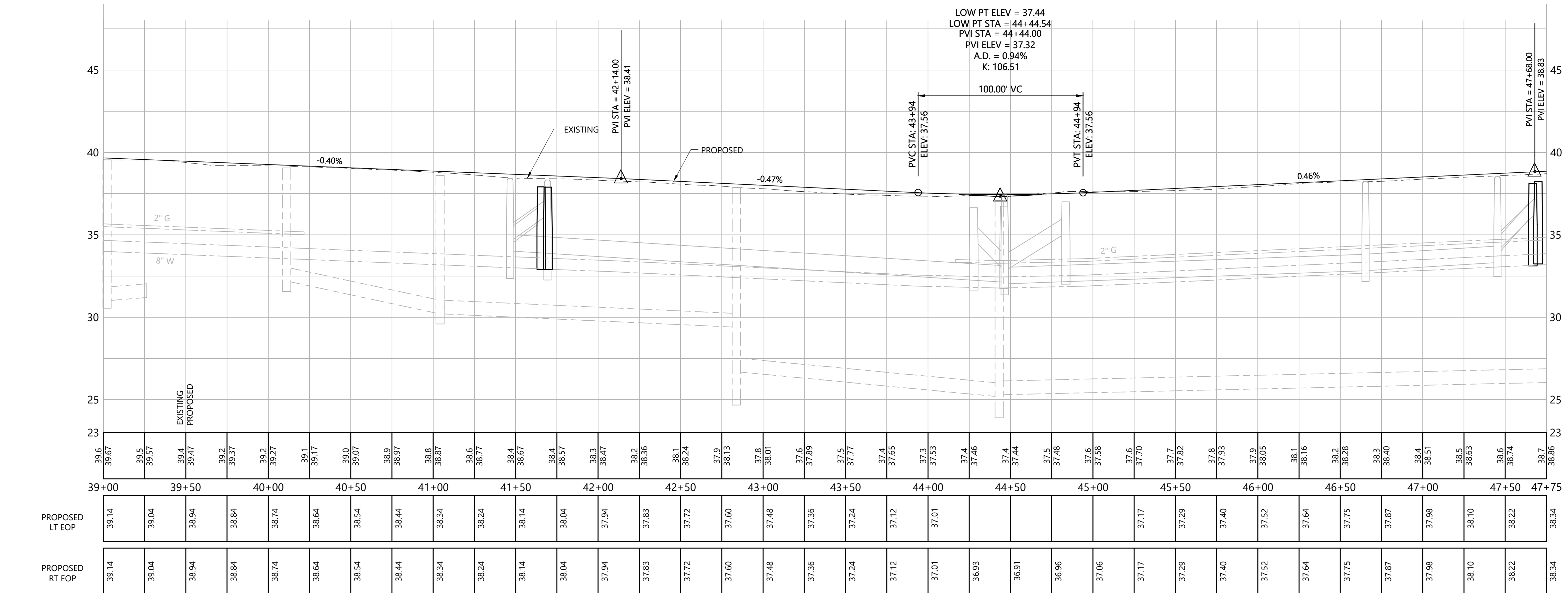
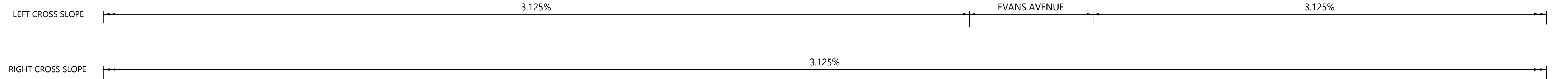
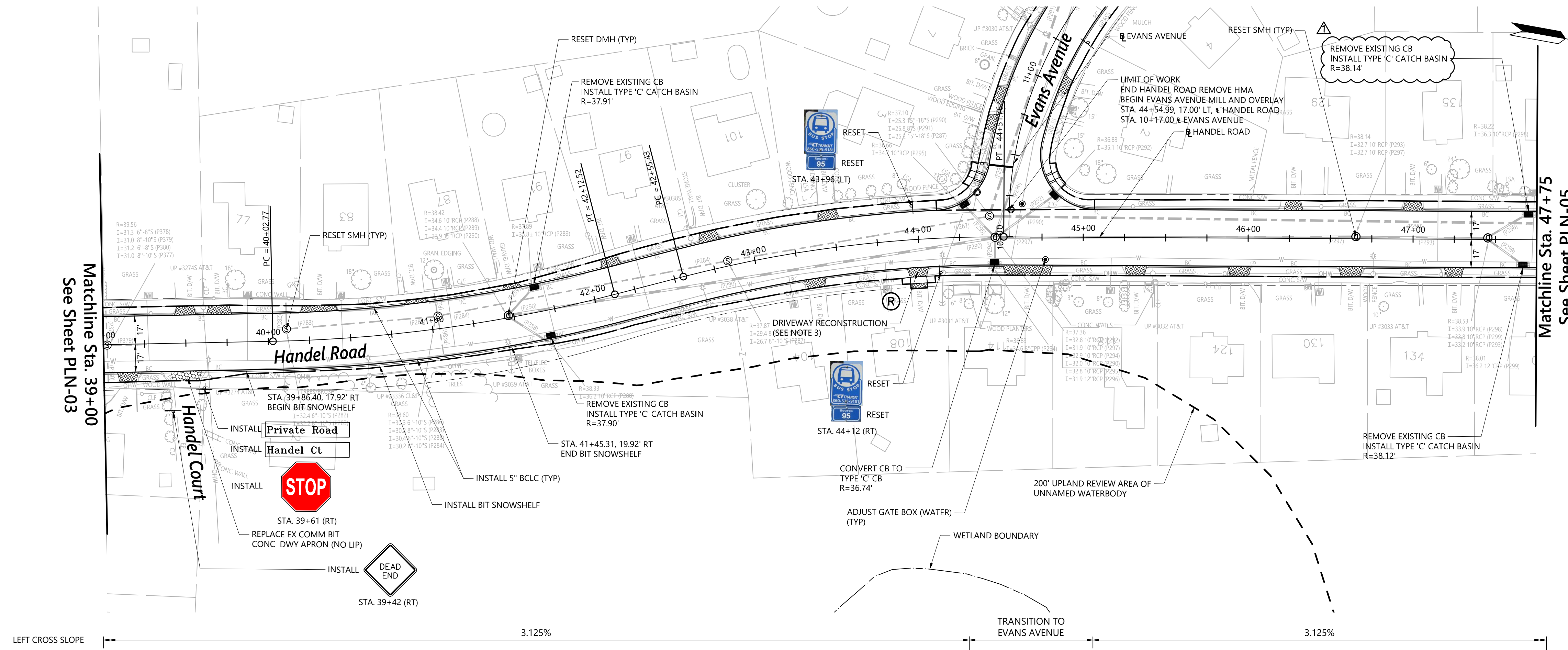
1000 0 1000 2000  
SCALE IN FEET

**LEGEND**

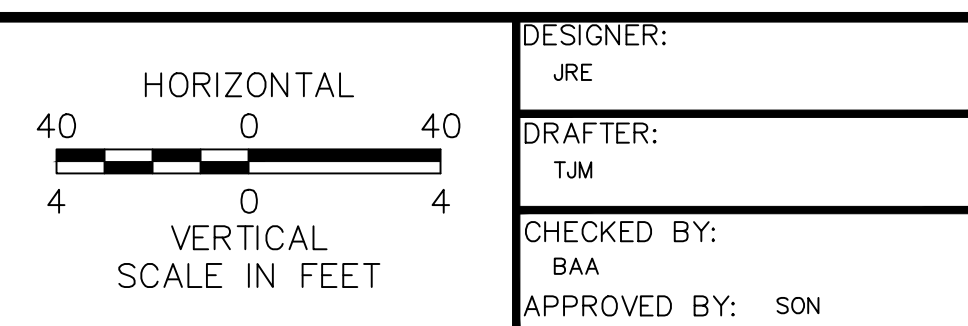
- REPLACE EX RES BIT CONC DWY APRON
- REPLACE EX COMM BIT CONC DWY APRON
- REPLACE EX CONC DWY APRON
- RIGHT OF ENTRY TO BE ACQUIRED (BY TOWN)

**NOTES:**

1. THE CONTRACTOR SHALL COORDINATE AND EXCAVATE TEST PITS AT THE ANTICIPATED UTILITY CROSSING LOCATIONS WITH THE PROPOSED DRAINAGE STRUCTURES AND PIPES SEVEN DAYS PRIOR TO CONSTRUCTING THE DRAINAGE IMPROVEMENTS AS REQUIRED AND AS APPROVED BY THE ENGINEER. MEASUREMENTS TO THE SERVICES AND MAINS SHALL BE TAKEN AND PROVIDED TO THE ENGINEER TO DETERMINE ANY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY UTILITY ADJUSTMENTS NECESSARY WITH THE UTILITY COMPANIES AND THE ENGINEER BEFORE COMMENCING WITH DRAINAGE IMPROVEMENTS.
2. THE CONTRACTOR SHALL REPLACE ANY CURBING ALONG DRIVEWAY APRONS AND DRIVEWAYS DISTURBED OR REMOVED DURING CONSTRUCTION WITH EQUIVALENT CURBING AS APPROVED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE DRIVEWAY RAMP WORK AND SHALL NOT BE MEASURED FOR PAYMENT.
3. FOR THE SPECIFIED DRIVEWAYS:  
SEE SPECIAL PROVISIONS FOR DRIVEWAY RECONSTRUCTION TABLES.
4. THE LIMIT OF WORK CALLOUT AT INTERSECTION ROADWAYS REPRESENTS THE PAY LIMIT FOR EACH ROADWAY.
5. THE CONTRACTOR SHALL REGRADE AND REESTABLISH VEGETATION AT THE BACK OF THE PROPOSED SIDEWALK AND SIDEWALK RAMPS TO THE LIMITS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROTECT THE RIGHT OF WAY BOUNDARY DURING THE CONSTRUCTION OF THE SIDEWALK AND SIDEWALK RAMPS. ANY DAMAGE TO THE RIGHT OF WAY BOUNDARY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
6. SEE INTERSECTION GRADING PLANS FOR EDGE OF PAVEMENT ELEVATIONS NOT SHOWN ON THIS SHEET.
7. THE CONTRACTOR SHALL RESET FENCES THAT ARE AFFECTED BY THE CONSTRUCTION OF SIDEWALK AND SIDEWALK RAMPS. THE COST TO RESET FENCE SHALL BE PAID FOR UNDER THE VARIOUS RESET FENCE ITEMS.
8. THE CONTRACTOR SHALL PROTECT LANDSCAPED AREAS WITHIN THE LIMITS OF WORK WHERE POSSIBLE. LANDSCAPED AREAS THAT ARE DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED. THE COST TO RESTORE LANDSCAPED AREAS SHALL BE INCLUDED IN THE GENERAL COST OF WORK.



REV.	DATE	REVISED RIM ELEVATION	DESCRIPTION	079



DESIGNER: JRE  
DRAFTER: TJM  
CHECKED BY: BAA  
APPROVED BY: SON

ISSUED FOR CONSTRUCTION DATE: JANUARY, 2020

PROJECT TITLE:  
**CAMBRIDGE DRIVE NEIGHBORHOOD  
ROADWAY IMPROVEMENT PROJECT  
VARIOUS LOCATIONS**

CADD FILENAME: PLN--HANDEL--4241300 - ADDENDUM #1.DWG

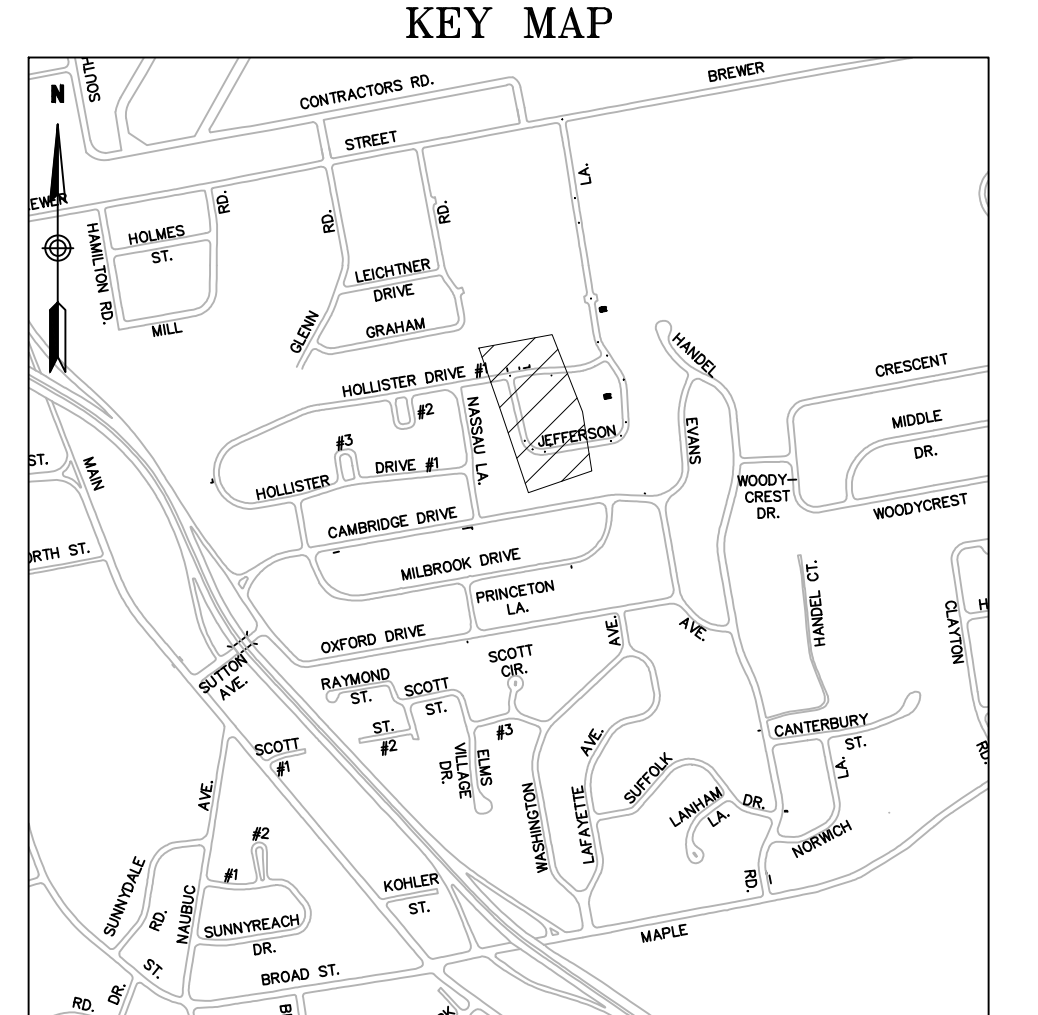
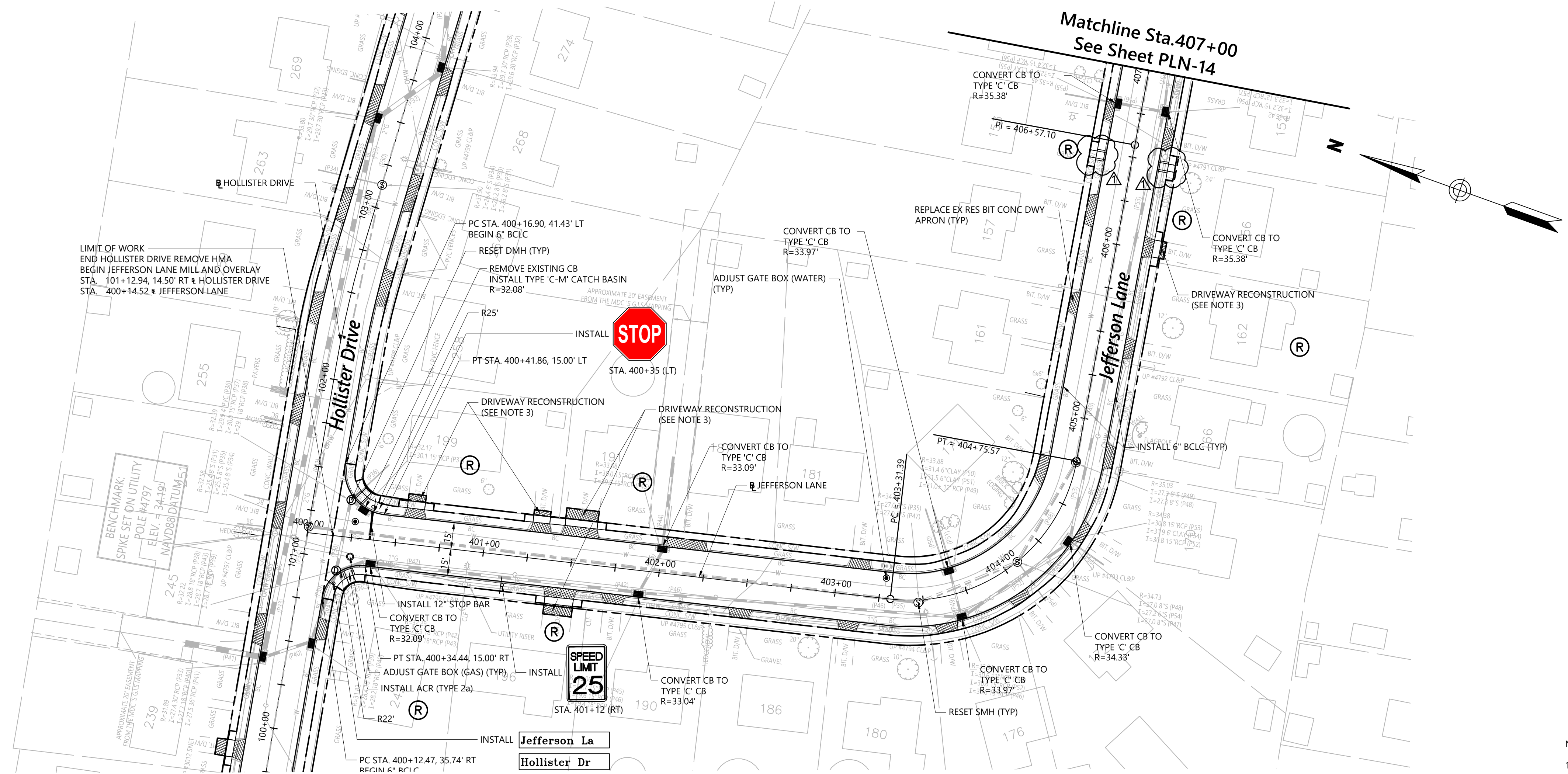
TOWN:  
**EAST HARTFORD, CONNECTICUT**

DRAWING TITLE:  
**CONSTRUCTION PLAN  
HANDEL ROAD**

PROJECT NO.:  
**42413.00**

DRAWING NO.:  
**PLN-04**

SHEET NO.:  
**079 OF 294**

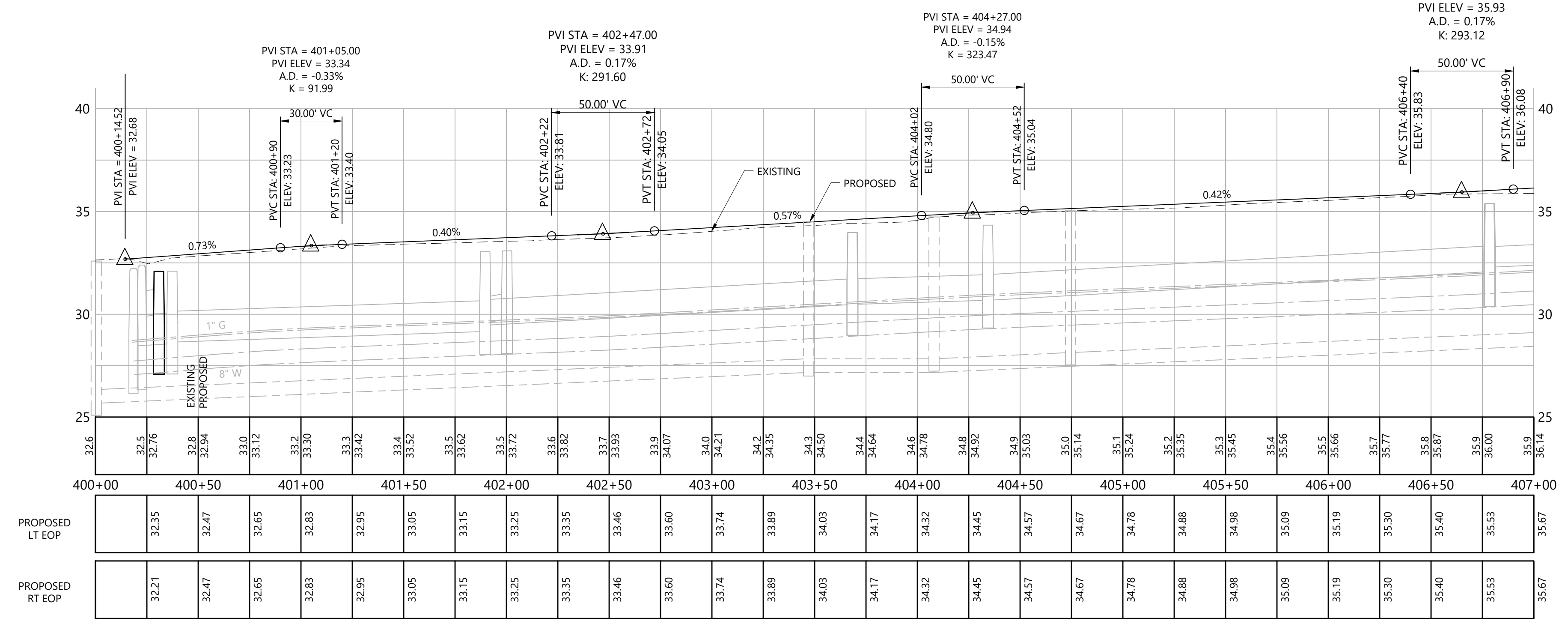
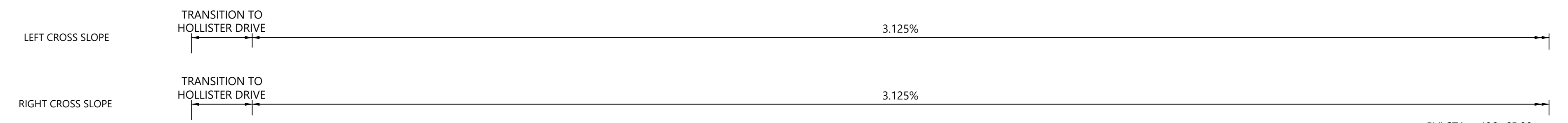


1000 0 1000 2000  
SCALE IN FEET

**LEGEND**

- REPLACE EX RES BIT CONC DWY APRON
- REPLACE EX COMM BIT CONC DWY APRON
- REPLACE EX CONC DWY APRON
- RIGHT OF ENTRY TO BE ACQUIRED (BY TOWN)

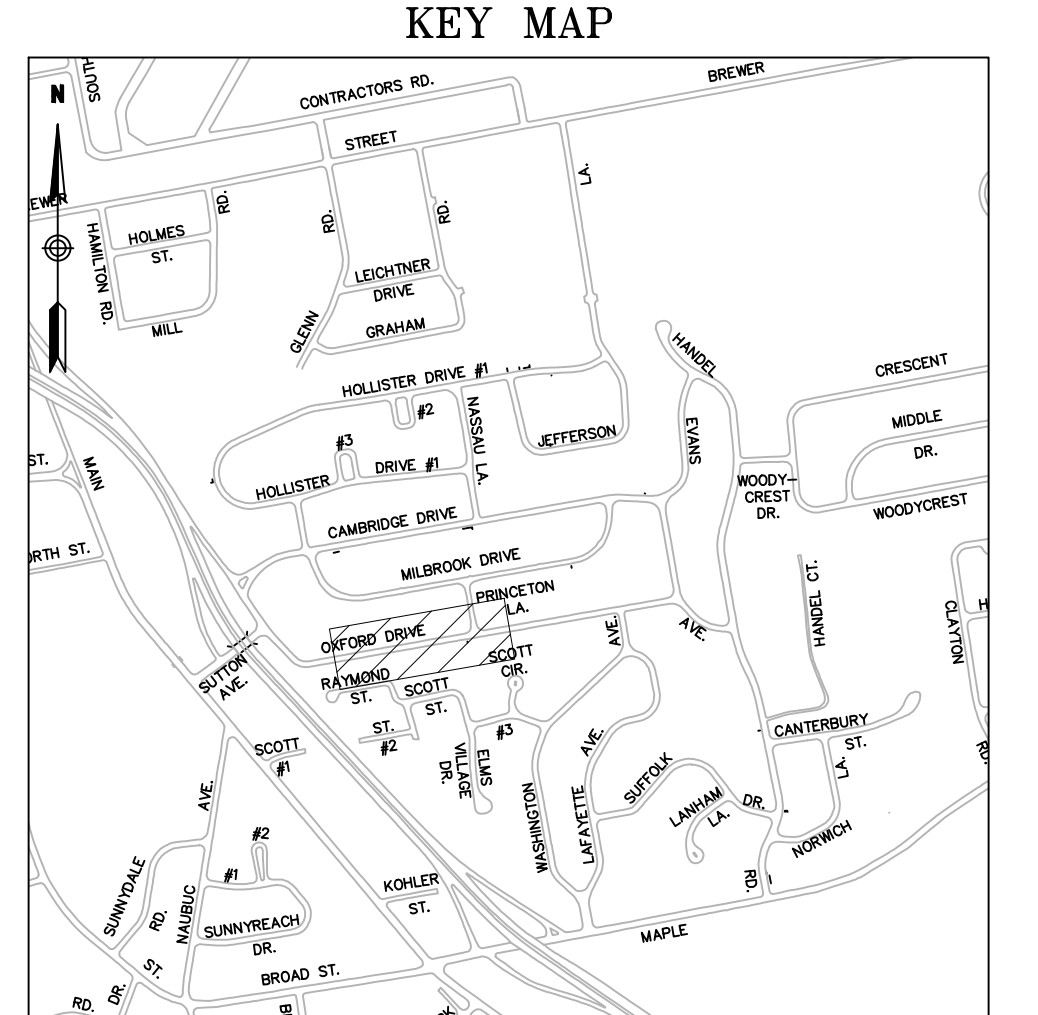
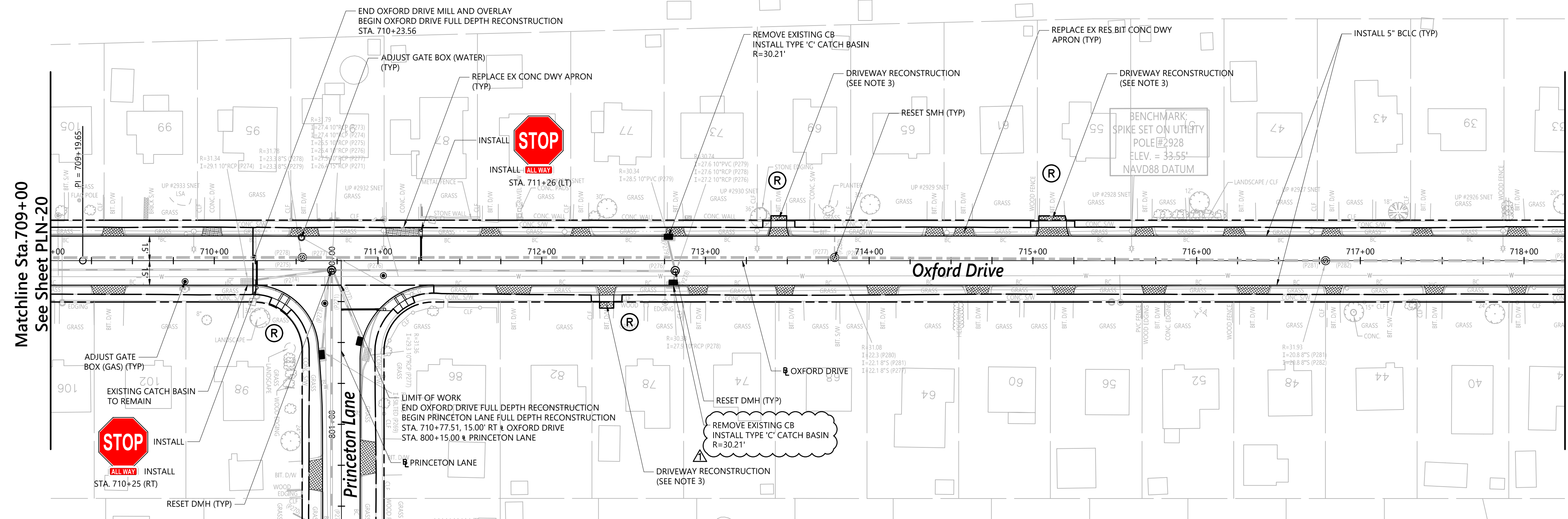
- NOTES:
1. THE CONTRACTOR SHALL COORDINATE AND EXCAVATE TEST PITS AT THE ANTICIPATED UTILITY CROSSING LOCATIONS WITH THE PROPOSED DRAINAGE STRUCTURES AND PIPES SEVEN DAYS PRIOR TO CONSTRUCTING THE DRAINAGE IMPROVEMENTS AS REQUIRED AND AS APPROVED BY THE ENGINEER. MEASUREMENTS TO THE SERVICES AND MAINS SHALL BE TAKEN AND PROVIDED TO THE ENGINEER TO DETERMINE ANY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY UTILITY ADJUSTMENTS NECESSARY WITH THE UTILITY COMPANIES AND THE ENGINEER BEFORE COMMENCING WITH DRAINAGE IMPROVEMENTS.
  2. THE CONTRACTOR SHALL REPLACE ANY CURBING ALONG DRIVEWAY APRONS AND DRIVEWAYS DISTURBED OR REMOVED DURING CONSTRUCTION WITH EQUIVALENT CURBING AS APPROVED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE DRIVEWAY RAMP WORK AND SHALL NOT BE MEASURED FOR PAYMENT.
  3. FOR THE SPECIFIED DRIVEWAYS:  
SEE SPECIAL PROVISIONS FOR DRIVEWAY RECONSTRUCTION TABLES.
  4. THE LIMIT OF WORK CALLOUT AT INTERSECTION ROADWAYS REPRESENTS THE PAY LIMIT FOR EACH ROADWAY.
  5. THE CONTRACTOR SHALL REGRADE AND REESTABLISH VEGETATION AT THE BACK OF THE PROPOSED SIDEWALK AND SIDEWALK RAMPS TO THE LIMITS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROTECT THE RIGHT OF WAY BOUNDARY DURING THE CONSTRUCTION OF THE SIDEWALK AND SIDEWALK RAMPS. ANY DAMAGE TO THE RIGHT OF WAY BOUNDARY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
  6. SEE INTERSECTION GRADING PLANS FOR EDGE OF PAVEMENT ELEVATIONS NOT SHOWN ON THIS SHEET.
  7. THE CONTRACTOR SHALL RESET FENCES THAT ARE AFFECTED BY THE CONSTRUCTION OF SIDEWALK AND SIDEWALK RAMPS. THE COST TO RESET FENCE SHALL BE PAID FOR UNDER THE VARIOUS RESET FENCE ITEMS.
  8. THE CONTRACTOR SHALL PROTECT LANDSCAPED AREAS WITHIN THE LIMITS OF WORK WHERE POSSIBLE. LANDSCAPED AREAS THAT ARE DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED. THE COST TO RESTORE LANDSCAPED AREAS SHALL BE INCLUDED IN THE GENERAL COST OF WORK.



	 HORIZONTAL SCALE IN FEET	 VERTICAL SCALE IN FEET	DESIGNER: JRE DRAFTER: TJM CHECKED BY: BAA APPROVED BY: SON	 Engineers Scientists Planners Designers ISSUED FOR CONSTRUCTION DATE: JANUARY, 2020	 PROJECT TITLE: <b>CAMBRIDGE DRIVE NEIGHBORHOOD ROADWAY IMPROVEMENT PROJECT VARIOUS LOCATIONS</b> CADD FILENAME: PLN--JEFFERSON--4241300 - ADDENDUM #1.DWG	TOWN: EAST HARTFORD, CONNECTICUT	PROJECT NO.: 42413.00 DRAWING NO.: PLN-13 SHEET NO.: 089 OF 294
REV. DATE DESCRIPTION REVISIONS SHEET NO.	02/27/20 REVISED SIDEWALK RAMP AND CURB LAYOUT 089						



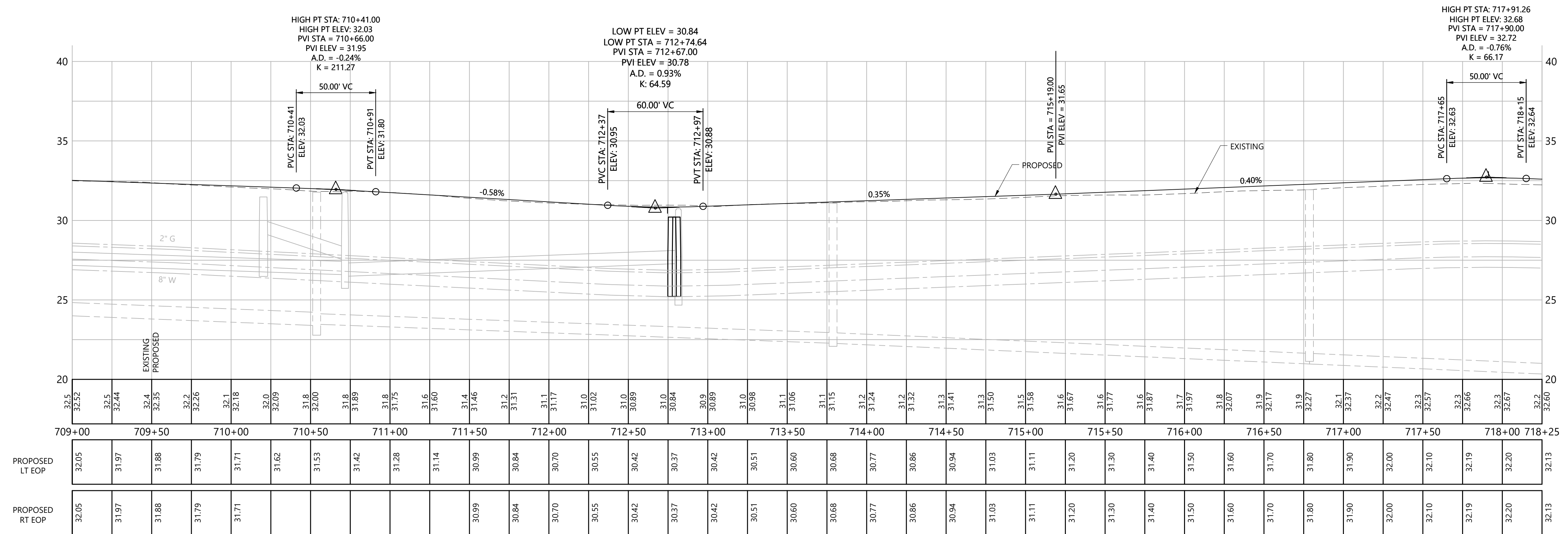
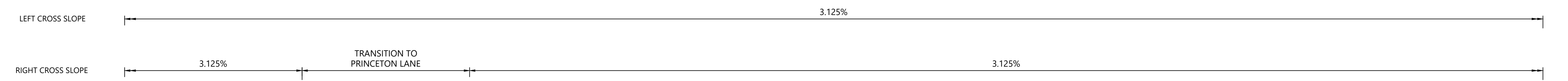




**LEGEND**

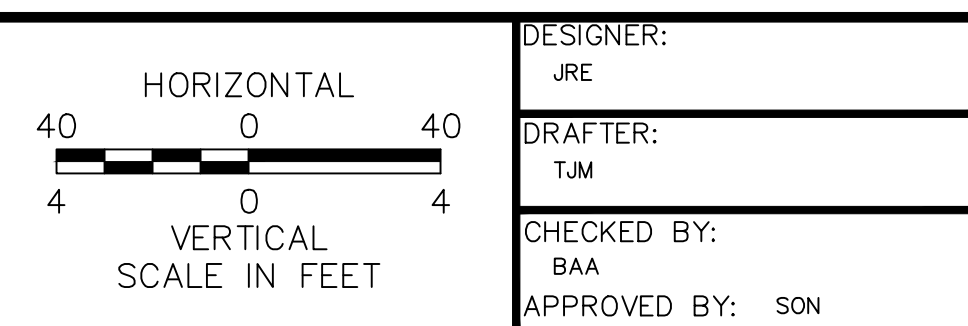
- REPLACE EX RES BIT CONC DWY APRON
- REPLACE EX COMM BIT CONC DWY APRON
- REPLACE EX CONC DWY APRON
- RIGHT OF ENTRY TO BE ACQUIRED (BY TOWN)

- NOTES:
- THE CONTRACTOR SHALL COORDINATE AND EXCAVATE TEST PITS AT THE ANTICIPATED UTILITY CROSSING LOCATIONS WITH THE PROPOSED DRAINAGE STRUCTURES AND PIPES SEVEN DAYS PRIOR TO CONSTRUCTING THE DRAINAGE IMPROVEMENTS AS REQUIRED AND AS APPROVED BY THE ENGINEER. MEASUREMENTS TO THE SERVICES AND MAINS SHALL BE TAKEN AND PROVIDED TO THE ENGINEER TO DETERMINE ANY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY UTILITY ADJUSTMENTS NECESSARY WITH THE UTILITY COMPANIES AND THE ENGINEER BEFORE COMMENCING WITH DRAINAGE IMPROVEMENTS.
  - THE CONTRACTOR SHALL REPLACE ANY CURBING ALONG DRIVEWAY APRONS AND DRIVEWAYS DISTURBED OR REMOVED DURING CONSTRUCTION WITH EQUIVALENT CURBING AS APPROVED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE DRIVEWAY RAMP WORK AND SHALL NOT BE MEASURED FOR PAYMENT.
  - FOR THE SPECIFIED DRIVEWAYS:  
SEE SPECIAL PROVISIONS FOR DRIVEWAY RECONSTRUCTION TABLES.
  - THE LIMIT OF WORK CALLOUT AT INTERSECTION ROADWAYS REPRESENTS THE PAY LIMIT FOR EACH ROADWAY.
  - THE CONTRACTOR SHALL REGRADE AND REESTABLISH VEGETATION AT THE BACK OF THE PROPOSED SIDEWALK AND SIDEWALK RAMPS TO THE LIMITS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROTECT THE RIGHT OF WAY BOUNDARY DURING THE CONSTRUCTION OF THE SIDEWALK AND SIDEWALK RAMPS. ANY DAMAGE TO THE RIGHT OF WAY BOUNDARY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
  - SEE INTERSECTION GRADING PLANS FOR EDGE OF PAYMENT ELEVATIONS NOT SHOWN ON THIS SHEET.
  - THE CONTRACTOR SHALL RESET FENCES THAT ARE AFFECTED BY THE CONSTRUCTION OF SIDEWALK AND SIDEWALK RAMPS. THE COST TO RESET FENCE SHALL BE PAID FOR UNDER THE VARIOUS RESET FENCE ITEMS.
  - THE CONTRACTOR SHALL PROTECT LANDSCAPED AREAS WITHIN THE LIMITS OF WORK WHERE POSSIBLE. LANDSCAPED AREAS THAT ARE DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED. THE COST TO RESTORE LANDSCAPED AREAS SHALL BE INCLUDED IN THE GENERAL COST OF WORK.



PROPOSED LT EOP	32.05	31.97	31.88	31.79	31.71	31.62	31.53	31.42	31.28	31.14	30.99	30.84	30.70	30.55	30.42	30.37	30.42	30.51	30.60	30.68	30.77	30.86	30.94	31.03	31.11	31.20	31.30	31.40	31.50	31.60	31.70	31.80	31.90	32.00	32.10	32.19	32.20	32.13
PROPOSED RT EOP	32.05	31.97	31.88	31.79	31.71	31.62	31.53	31.42	31.28	31.14	30.99	30.84	30.70	30.55	30.42	30.37	30.42	30.51	30.60	30.68	30.77	30.86	30.94	31.03	31.11	31.20	31.30	31.40	31.50	31.60	31.70	31.80	31.90	32.00	32.10	32.19	32.20	32.13

REV.	02/27/20	REVISED RIM ELEVATION	098
DATE		DESCRIPTION	SHEET NO.



DESIGNER: JRE  
 DRAFTER: TJM  
 CHECKED BY: BAA  
 APPROVED BY: SON

**vhb**  
 Engineers Scientists Planners Designers

ISSUED FOR CONSTRUCTION DATE: JANUARY, 2020

PROJECT TITLE:  
**CAMBRIDGE DRIVE NEIGHBORHOOD ROADWAY IMPROVEMENT PROJECT VARIOUS LOCATIONS**

CADD FILENAME: PLN-Oxford-Cambridge-4241300 - ADDENDUM #1.DWG

TOWN: EAST HARTFORD, CONNECTICUT

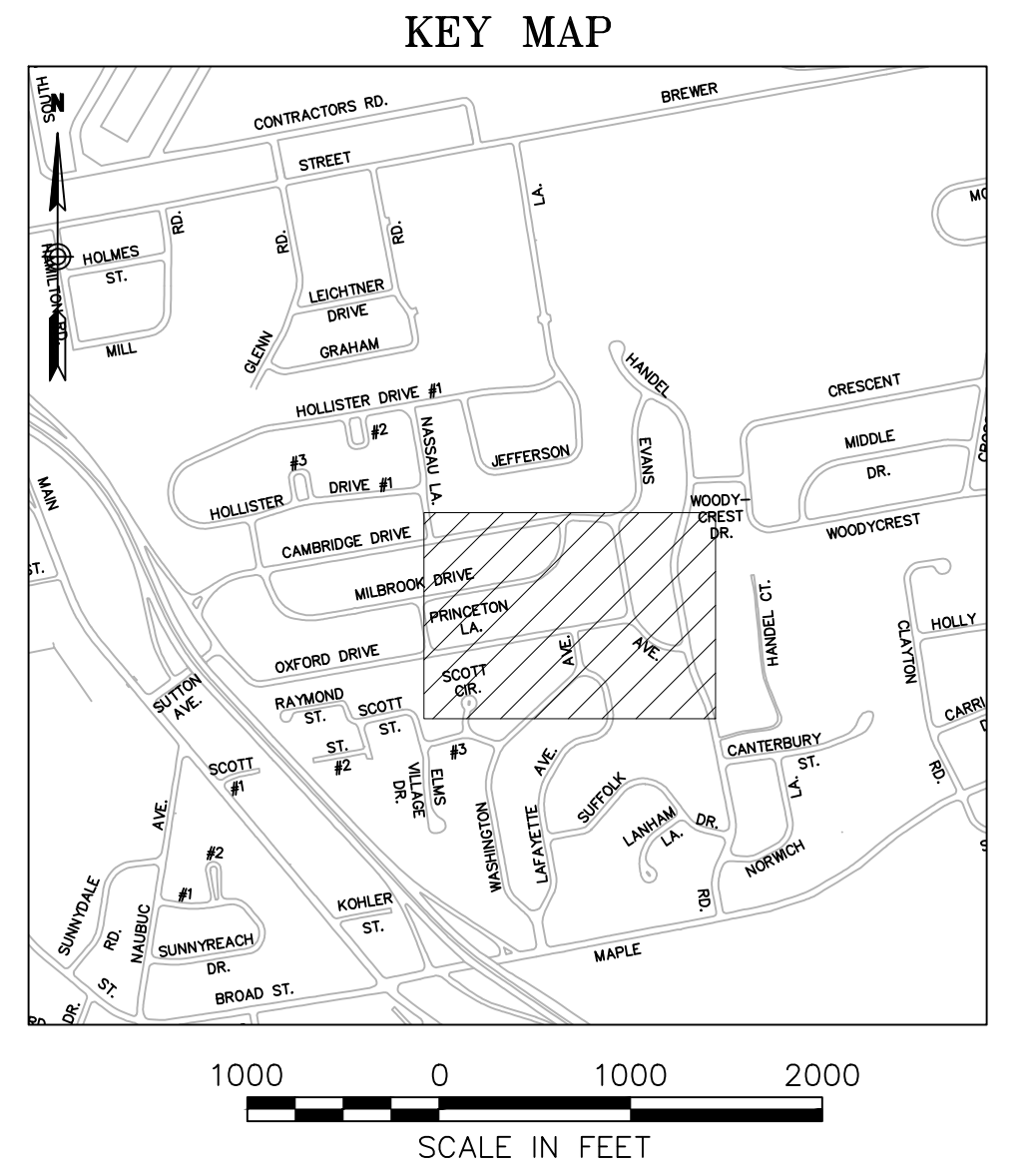
DRAWING TITLE: CONSTRUCTION PLAN OXFORD DRIVE/CAMBRIDGE DRIVE

PROJECT NO.: 42413.00  
 DRAWING NO.: PLN-21  
 SHEET NO.: 098 OF 294





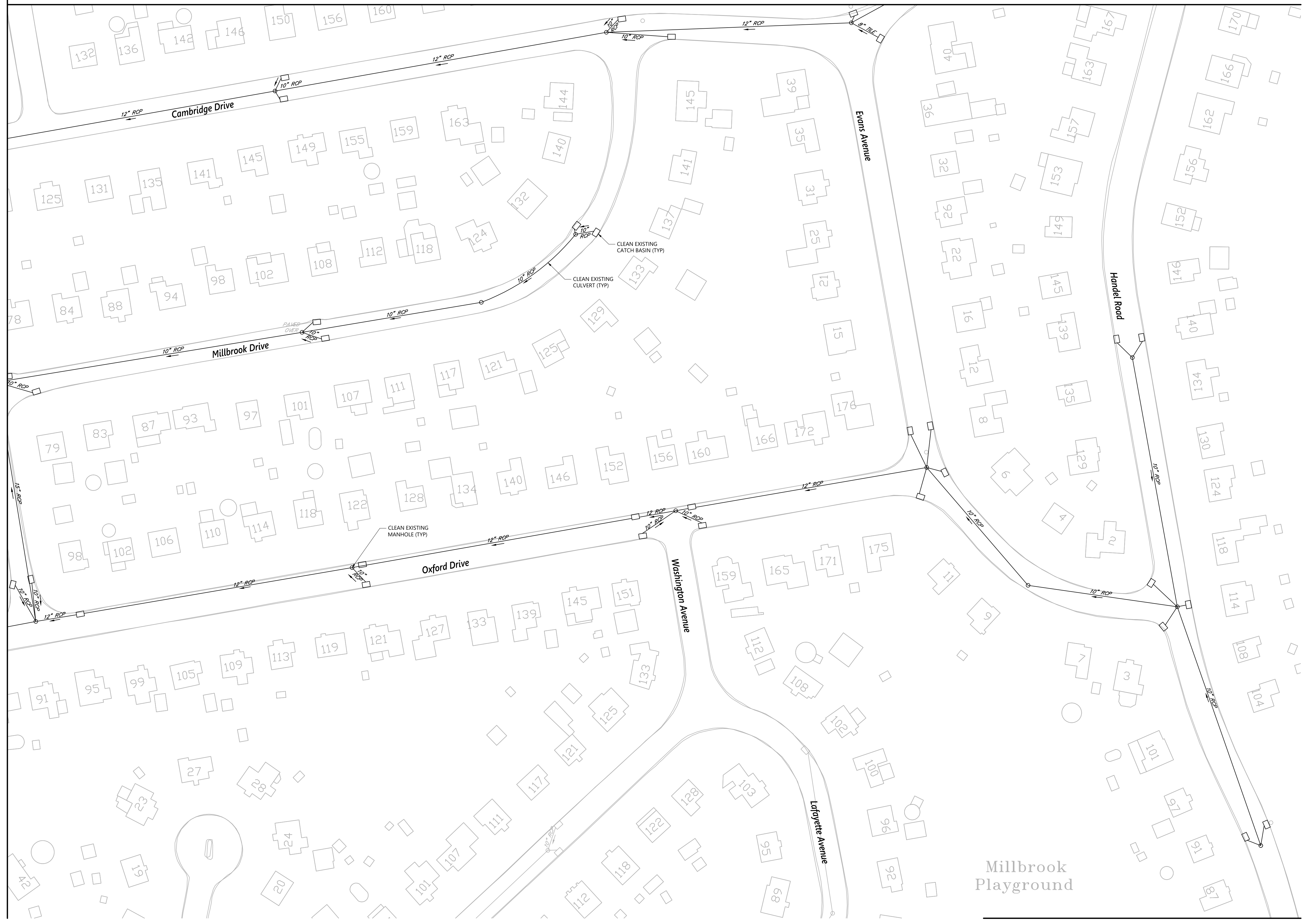
Matchline A-A  
See Sheet DCP-01



- NOTE:
1. DETAILS REGARDING PIPE SIZES AND TYPES, STRUCTURE LOCATIONS, AND DIRECTION OF FLOW ARE BASED UPON INFORMATION RECEIVED FROM THE TOWN OF EAST HARTFORD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE DIRECTION OF FLOW AND SIZE, LOCATION, AND TYPE OF EACH PIPE AND STRUCTURE PRIOR TO BEGINNING ANY CLEANING ACTIVITY.
  2. THE CONTRACTOR SHALL CLEAN ALL PIPES AND STRUCTURES SHOWN ON THE PLAN, UNLESS OTHERWISE NOTED.

Matchline C-C  
See Sheet DCP-03

Matchline F-F  
See Sheet DCP-06



REV.	DATE	DESCRIPTION	SHEET NO.
1	02/27/20	REVISED CATCH BASIN CLEANING	115



DESIGNER:  
JRE  
DRAFTER:  
TJM  
CHECKED BY:  
BAA  
APPROVED BY: SON

ISSUED FOR CONSTRUCTION DATE: JANUARY, 2020

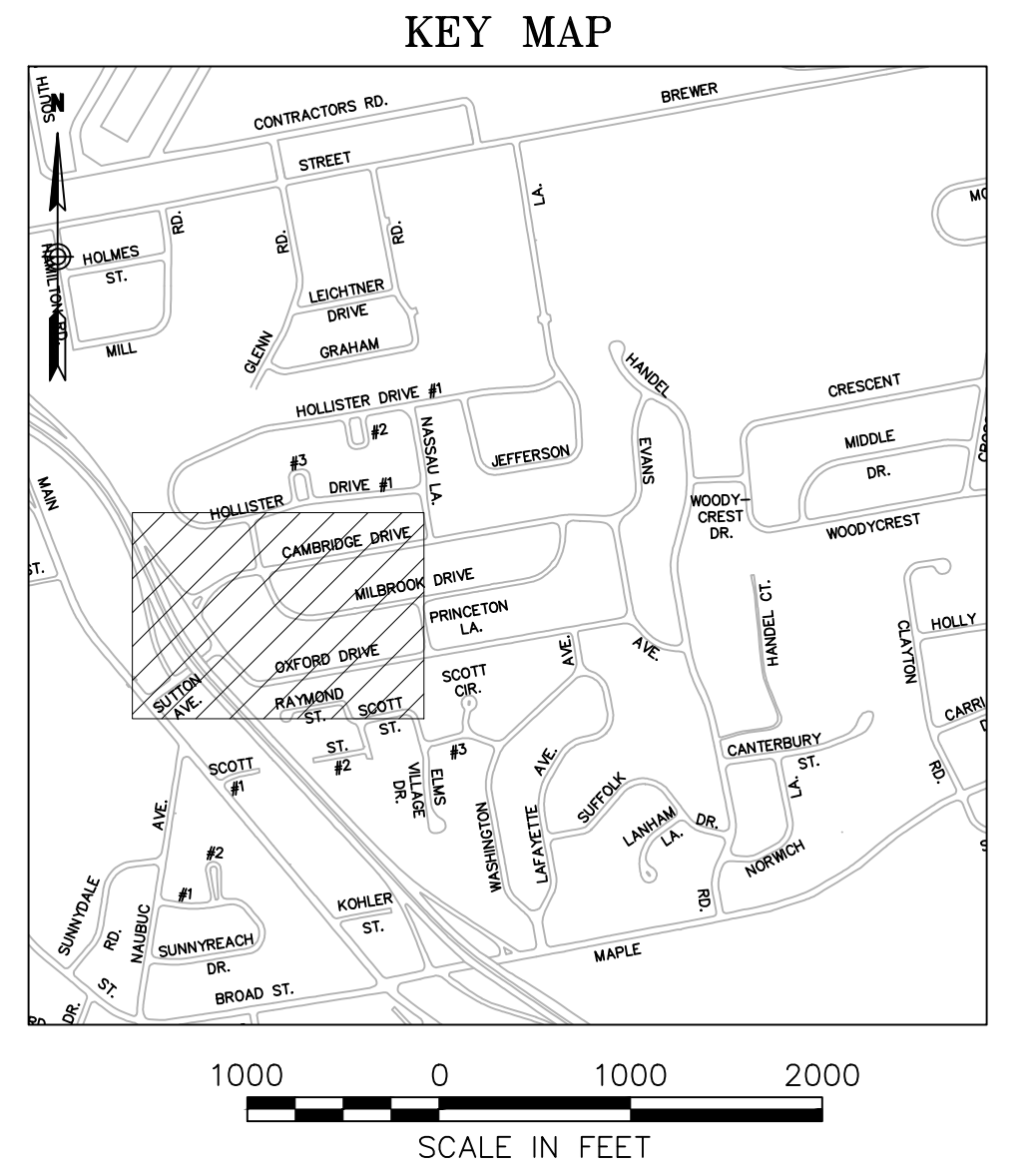
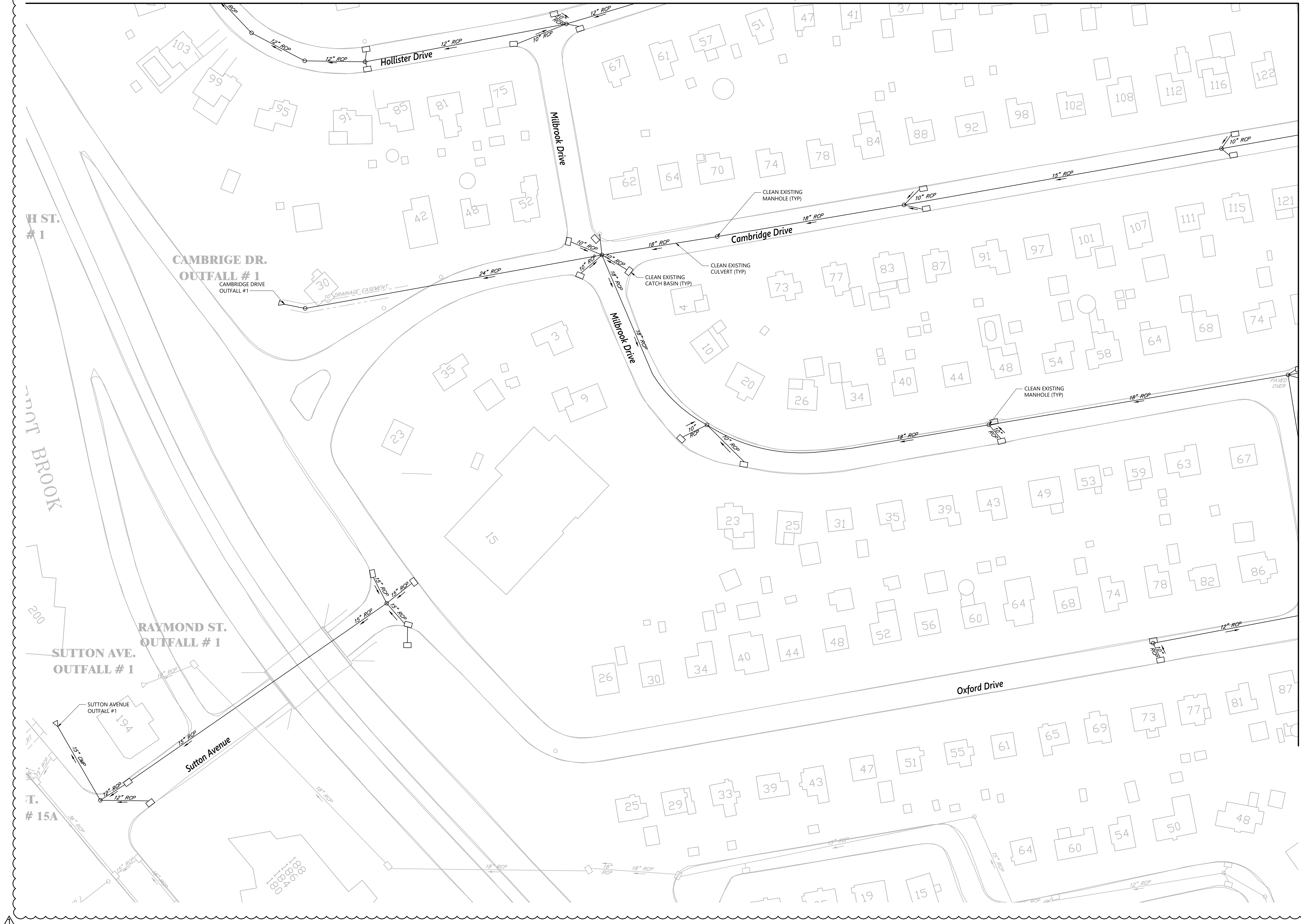


PROJECT TITLE:  
**CAMBRIDGE DRIVE NEIGHBORHOOD ROADWAY IMPROVEMENT PROJECT VARIOUS LOCATIONS**  
CADD FILENAME: DCP-EVANS-4241300 - ADDENDUM #1.DWG

TOWN:  
**EAST HARTFORD, CONNECTICUT**  
DRAWING TITLE:  
**DRAINAGE SYSTEM CLEANING PLAN**

PROJECT NO.:  
**42413.00**  
DRAWING NO.:  
**DCP-02**  
SHEET NO.:  
**115 OF 294**

Matchline D-D  
See Sheet DCP-04



- NOTE:
1. DETAILS REGARDING PIPE SIZES AND TYPES, STRUCTURE LOCATIONS, AND DIRECTION OF FLOW ARE BASED UPON INFORMATION RECEIVED FROM THE TOWN OF EAST HARTFORD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE DIRECTION OF FLOW AND SIZE, LOCATION, AND TYPE OF EACH PIPE AND STRUCTURE PRIOR TO BEGINNING ANY CLEANING ACTIVITY.
  2. THE CONTRACTOR SHALL CLEAN ALL PIPES AND STRUCTURES SHOWN ON THE PLAN, UNLESS OTHERWISE NOTED.

REV.	DATE	DESCRIPTION	REVISIONS	SHEET. NO.
1	02/27/20	REVISED CATCH BASIN CLEANING		116



DESIGNER:  
JRE  
DRAFTER:  
TJM  
CHECKED BY:  
BAA  
APPROVED BY: SON

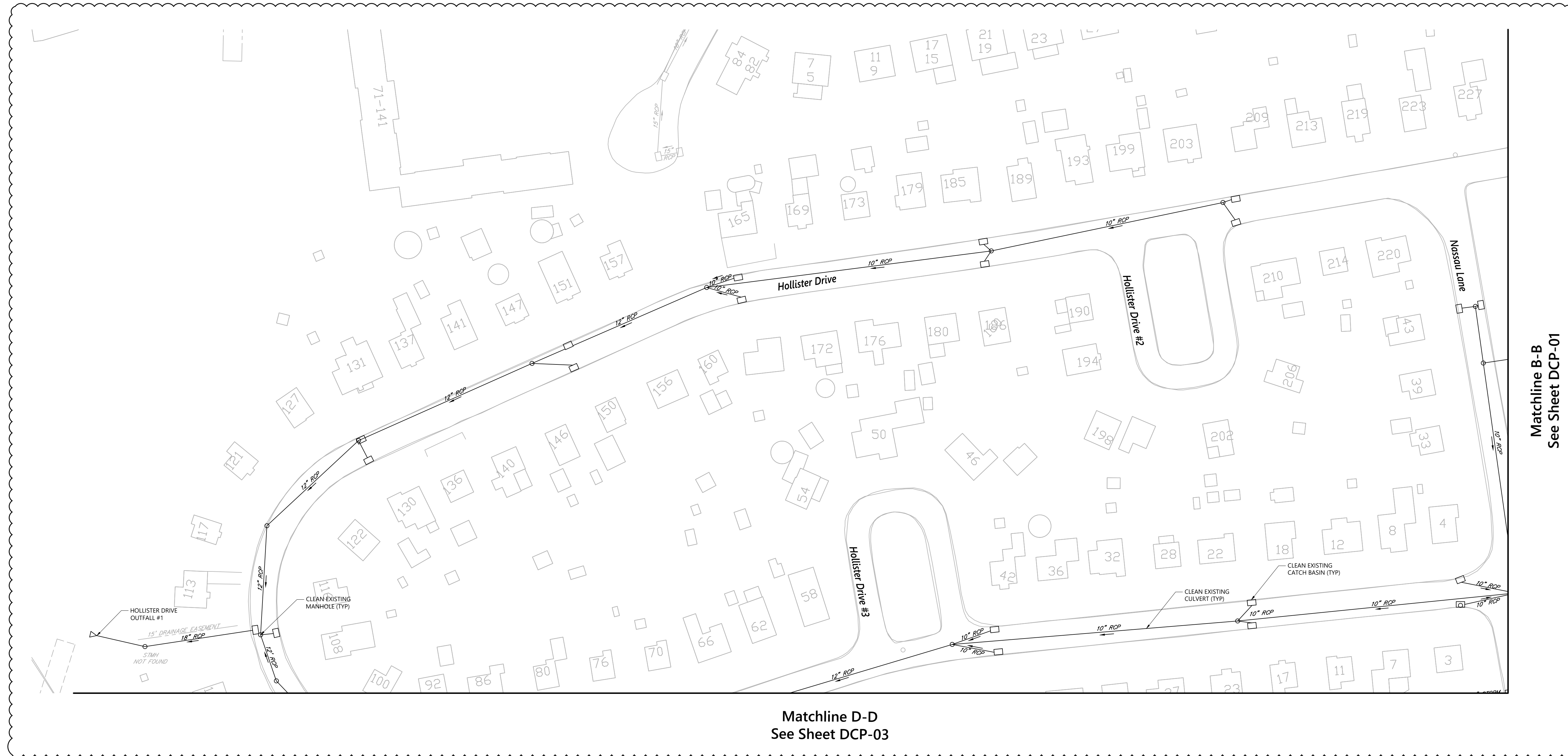
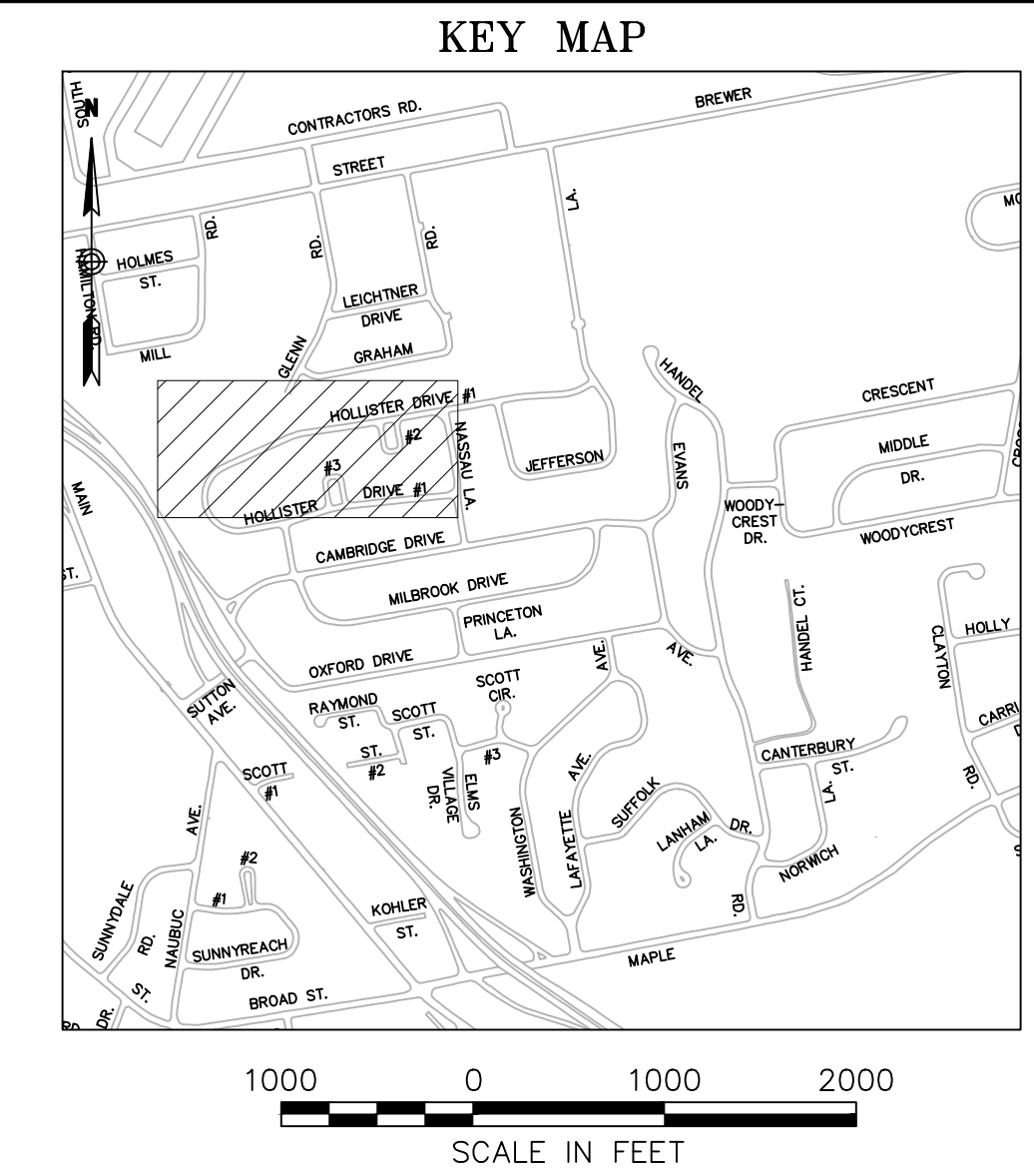
ISSUED FOR CONSTRUCTION DATE: JANUARY, 2020



PROJECT TITLE:  
**CAMBRIDGE DRIVE NEIGHBORHOOD  
ROADWAY IMPROVEMENT PROJECT  
VARIOUS LOCATIONS**  
CADD FILENAME: DCP-EVANS-4241300 - ADDENDUM #1.DWG

TOWN:  
**EAST HARTFORD, CONNECTICUT**  
DRAWING TITLE:  
**DRAINAGE SYSTEM  
CLEANING PLAN**

PROJECT NO.:  
**42413.00**  
DRAWING NO.:  
**DCP-03**  
SHEET NO.:  
**116 OF 294**



Matchline B-B  
See Sheet DCP-01

Matchline D-D  
See Sheet DCP-03

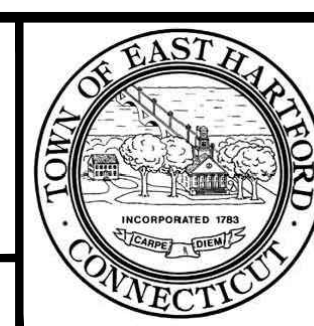
- NOTE:
1. DETAILS REGARDING PIPE SIZES AND TYPES, STRUCTURE LOCATIONS, AND DIRECTION OF FLOW ARE BASED UPON INFORMATION RECEIVED FROM THE TOWN OF EAST HARTFORD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE DIRECTION OF FLOW AND SIZE, LOCATION, AND TYPE OF EACH PIPE AND STRUCTURE PRIOR TO BEGINNING ANY CLEANING ACTIVITY.
  2. THE CONTRACTOR SHALL CLEAN ALL PIPES AND STRUCTURES SHOWN ON THE PLAN, UNLESS OTHERWISE NOTED.

REV.	DATE	DESCRIPTION	SHEET. NO.
1	02/27/20	REVISED CATCH BASIN CLEANING	117



DESIGNER:  
JRE  
DRAFTER:  
TJM  
CHECKED BY:  
BAA  
APPROVED BY: SON

ISSUED FOR CONSTRUCTION DATE: JANUARY, 2020



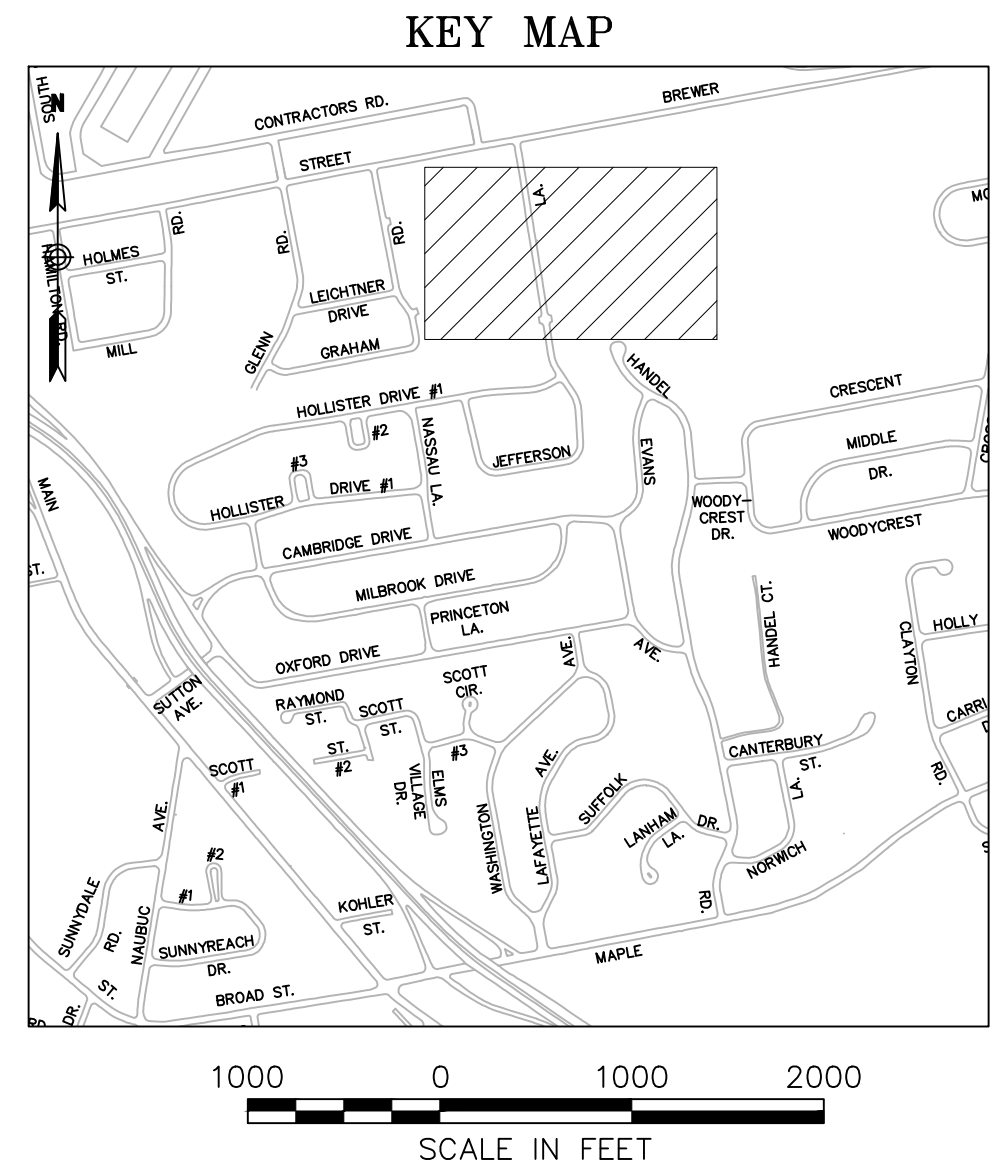
PROJECT TITLE:  
**CAMBRIDGE DRIVE NEIGHBORHOOD ROADWAY IMPROVEMENT PROJECT VARIOUS LOCATIONS**  
CADD FILENAME: DCP-EVANS-4241300 - ADDENDUM #1.DWG

TOWN:  
**EAST HARTFORD, CONNECTICUT**  
DRAWING TITLE:  
**DRAINAGE SYSTEM CLEANING PLAN**

PROJECT NO.:  
**42413.00**  
DRAWING NO.:  
**DCP-04**  
SHEET NO.:  
**117 OF 294**



Matchline E-E  
See Sheet DCP-01



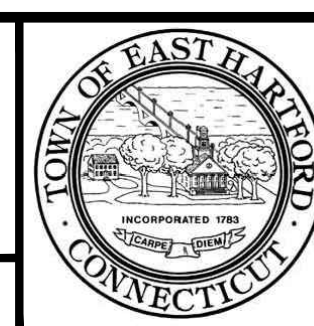
- NOTE:
1. DETAILS REGARDING PIPE SIZES AND TYPES, STRUCTURE LOCATIONS, AND DIRECTION OF FLOW ARE BASED UPON INFORMATION RECEIVED FROM THE TOWN OF EAST HARTFORD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE DIRECTION OF FLOW AND SIZE, LOCATION, AND TYPE OF EACH PIPE AND STRUCTURE PRIOR TO BEGINNING ANY CLEANING ACTIVITY.
  2. THE CONTRACTOR SHALL CLEAN ALL PIPES AND STRUCTURES SHOWN ON THE PLAN, UNLESS OTHERWISE NOTED.

REV.	DATE	DESCRIPTION	SHEET. NO.
Δ	02/27/20	REVISED CATCH BASIN CLEANING	118



DESIGNER:  
JRE  
DRAFTER:  
TJM  
CHECKED BY:  
BAA  
APPROVED BY: SON

ISSUED FOR CONSTRUCTION DATE: JANUARY, 2020

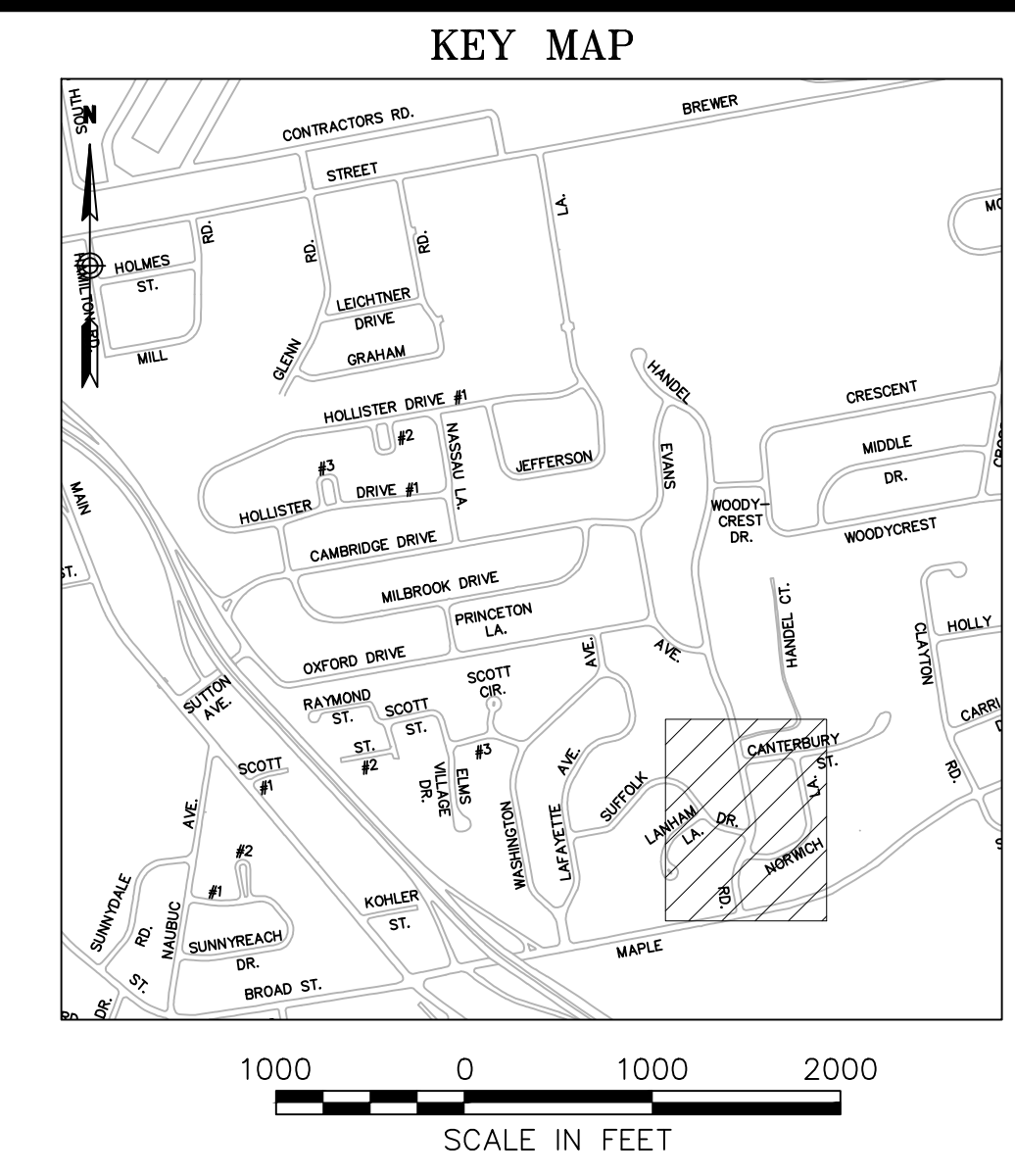
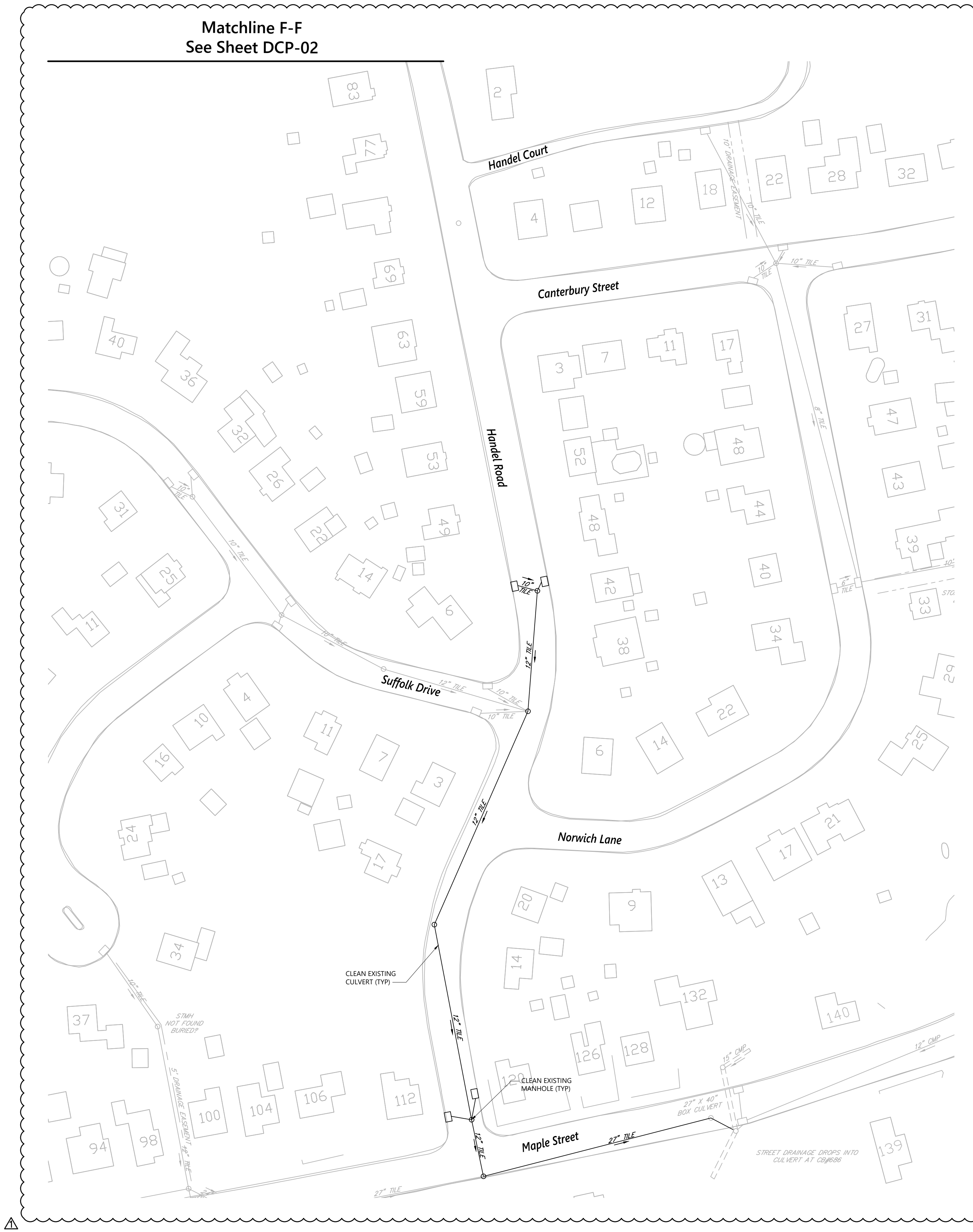


PROJECT TITLE:  
**CAMBRIDGE DRIVE NEIGHBORHOOD  
ROADWAY IMPROVEMENT PROJECT  
VARIOUS LOCATIONS**  
CADD FILENAME: DCP-EVANS-4241300 - ADDENDUM #1.DWG

TOWN:  
**EAST HARTFORD, CONNECTICUT**  
DRAWING TITLE:  
**DRAINAGE SYSTEM  
CLEANING PLAN**

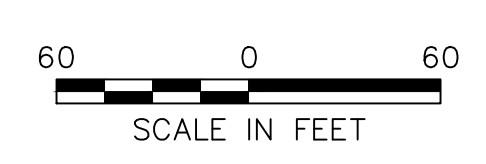
PROJECT NO.:  
**42413.00**  
DRAWING NO.:  
**DCP-05**  
SHEET NO.:  
**118 OF 294**





- NOTE:
1. DETAILS REGARDING PIPE SIZES AND TYPES, STRUCTURE LOCATIONS, AND DIRECTION OF FLOW ARE BASED UPON INFORMATION RECEIVED FROM THE TOWN OF EAST HARTFORD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE DIRECTION OF FLOW AND SIZE, LOCATION, AND TYPE OF EACH PIPE AND STRUCTURE PRIOR TO BEGINNING ANY CLEANING ACTIVITY.
  2. THE CONTRACTOR SHALL CLEAN ALL PIPES AND STRUCTURES SHOWN ON THE PLAN, UNLESS OTHERWISE NOTED.

REV.	DATE	DESCRIPTION	REVISIONS	SHEET NO.
1	02/27/20	REVISED CATCH BASIN CLEANING		119



DESIGNER:  
JRE  
DRAFTER:  
TJM  
CHECKED BY:  
BAA  
APPROVED BY: SON

**vhb**  
Engineers Scientists Planners Designers  
ISSUED FOR CONSTRUCTION DATE: JANUARY, 2020



PROJECT TITLE:  
**CAMBRIDGE DRIVE NEIGHBORHOOD  
ROADWAY IMPROVEMENT PROJECT  
VARIOUS LOCATIONS**  
CADD FILENAME: DCP-EVANS-4241300 - ADDENDUM #1.DWG

TOWN:  
**EAST HARTFORD, CONNECTICUT**  
DRAWING TITLE:  
**DRAINAGE SYSTEM  
CLEANING PLAN**

PROJECT NO.:  
**42413.00**  
DRAWING NO.:  
**DCP-06**  
SHEET NO.:  
**119 OF 294**