

**BROOKFIELD STREETScape PHASE II  
STATE PROJECT NO. 0018-0136  
FAP NO. 0202(015)  
TOWN OF BROOKFIELD**

**MAY 2, 2019**

**ADDENDUM NO. 2**

**CONTRACT ITEMS**

**NEW CONTRACT ITEM**

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>UNIT</u>	<u>QUANTITY</u>
0586001.10	TYPE "C" CB – 0'-10' DEEP	EA.	5
0586040.10	TYPE "C-L" CB – 0'-10' DEEP	EA.	1
0921010A	MONOLITHIC CONCRETE CURB AND SIDEWALK	S.F.	1,300

*Reason: Item numbers have been revised to reflect the use of all-inclusive drainage items. One Type "C" CB was changed to Type "C-L" CB to facilitate easier installation at a driveway. Monolithic Concrete Curb and Sidewalk was omitted and is hereby added to the contract.*

**REVISED CONTRACT ITEM**

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>UNIT</u>	<u>QUANTITY</u>
0970006	TRAFFIC PERSON (MUNCIPAL POLICE OFFICER)	EST.	\$47,000
0970007	TRAFFIC PERSON (UNIFORMED FLAGGER)	HR	90
0921001A	CONCRETE SIDEWALK	S.F.	11,250

*Reason: Town regulations require municipal police officers to provide traffic control. In the event the municipal police officers are unavailable, uniformed flaggers are to be used for traffic control.*

*Quantity for concrete sidewalk revised due to the addition of a new item "Monolithic Concrete Curb and Sidewalk".*

**DELETED CONTRACT ITEMS**

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>UNIT</u>	<u>QUANTITY</u>
0507014	TYPE "C" CB FRAME AND GRATE	EA.	6
0601000	CLASS "A" CONCRETE	CY	7

*Reason: Change was made to use all-inclusive drainage items, frames and grates are included within items 0586001.10 and 0586040.10.*

*Class "A" concrete is deleted as concrete pad for bus shelter and CBU will not be measured for quantities and be paid as lump sum for the respective items.*

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**PLANS**

**REVISED PLANS**

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

<b>SHEET NO.</b>	<b>SUMMARY OF REVISIONS</b>
<b>TITLE SHEET</b>	<b>General Note Revised</b>
<b>DE-1. A2</b>	<b>Item No. and Quantity Revised</b>
<b>TYP-1. A2</b>	<b>Driveway Slope Revised</b>
<b>TYP-2. A2</b>	<b>Driveway Slope and Legend Revised</b>
<b>MDS-1. A2</b>	<b>Miscellaneous Detail Callout Revised</b>
<b>MDS-2. A2</b>	<b>Miscellaneous Detail Revised</b>
<b>MDS-3. A2</b>	<b>Miscellaneous Detail Added and Revised</b>
<b>HWY-2. A2</b>	<b>Notes, Dimensions and Slope Limit Revised</b>
<b>PRO-2. A2</b>	<b>Catch Basin Type Revised</b>
<b>DRG-2. A2</b>	<b>Catch Basin Type Revised</b>
<b>XSC-1. A2</b>	<b>Brick Paver Width and slope limit Revised</b>
<b>XSC-2. A2</b>	<b>Brick Paver Width and slope limit Revised</b>
<b>XSC-3. A2</b>	<b>Brick Paver Width and slope limit Revised</b>
<b>XSC-4. A2</b>	<b>Brick Paver Width and slope limit Revised</b>
<b>XSC-5. A2</b>	<b>Brick Paver Width and slope limit Revised</b>
<b>XSC-6. A2</b>	<b>Brick Paver Width and slope limit Revised</b>
<b>XSC-7. A2</b>	<b>Brick Paver Width and slope limit Revised</b>

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**ADDENDUM NO. 2**

**PROJECT DOCUMENTS**

The following Front-End Contract Document are revised and are enclosed:

- Revised Schedule of Price Bid Form is deleted in its entirety and replaced with the attached
- Invitation to bid
  - ✓ 12 calendar days prior to the scheduled bid opening date is revised to 5 calendar days
- Section III General conditions, No. 11. TIME FOR COMPLETION AND LIQUIDATED DAMAGES
  - ✓ Add: Given the restricted planting seasons for deciduous plants, planting is excluded from the time of completion and liquidated damages.
- Section III General Conditions, No. 19. SHOP OR SETTING DRAWINGS
  - ✓ 30 calendar days in advance is revised to 5 days in advance.

**SPECIAL PROVISIONS**

**NEW SPECIAL PROVISIONS**

The following Special Provisions are hereby added to the Contract and are enclosed:

0202452A	Test Pit
0921010A	Monolithic Concrete Curb and Sidewalk

**REVISED SPECIAL PROVISIONS**

The following Special Provisions are hereby revised and are enclosed:

0947305A	Install Bus Shelter
0947306A	Install Cluster Box Units (CBU's)

*Reason: Changes made to clarify the construction of the concrete pads which will not be measured separately for payment and their cost will be included in the price of their respective items.*

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

The foregoing is hereby made a part of the contract.

**SCHEDULE OF PRICES**  
**BROOKFIELD STREETSCAPE PHASE II**  
**STATE PROJECT No. 0018-0136**  
**FAP No. 0202(015)**  
**BASE BID**

<b>ITEM NO.</b>	<b>ITEM AND UNIT PRICE</b>	<b>ENGINEER'S ESTIMATE OF QUANTITY</b>	<b>COMPUTED TOTAL</b>
0201001	"Clearing and Grubbing" at the lump sum price of _____ Dollars and _____ Cents (\$_____)	1	_____
0202001A	"Earth Excavation" at the unit (cu.yd.) price of _____ Dollars and _____ Cents (\$_____)	300	_____
0202452A	"Test Pit" at the unit (ea.) price of _____ Dollars and _____ Cents (\$_____)	5	_____
0202529	"Cut Bituminous Concrete Pavement" at the unit (l.f.) price of _____ Dollars and _____ Cents (\$_____)	1570	_____
0209001	"Formation of Subgrade" at the unit (s.y.) price of _____ Dollars and _____ Cents (\$_____)	150	_____
0211000	"Anti-Tracking Pad" at the unit (s.y.) price of _____ Dollars and _____ Cents (\$_____)	35	_____
0212000	"Subbase" at the unit (cu.yd.) price of _____ Dollars and _____ Cents (\$_____)	105	_____
0219001	"Sedimentation Control System" at the unit (l.f.) price of _____ Dollars and _____ Cents (\$_____)	1020	_____
0219011A	"Sediment Control System at Catch Basin" at the unit (ea.) price of _____ Dollars and _____ Cents (\$_____)	13	_____
0286001.1	"Rock in Drainage Trench Excavation 0-10' deep" at the unit (c.y.) price of _____ Dollars and _____ Cents (\$_____)	15	_____
0406171	"HMA S0.5" at the unit (ton) price of _____ Dollars and _____ Cents (\$_____)	125	_____
0406172	"HMA S0.375" at the unit (ton) price of _____ Dollars and _____ Cents (\$_____)	335	_____
0406236	"Material For Tack Coat" at the unit (gal.) price of _____ Dollars and _____ Cents (\$_____)	320	_____
0406275A	"Fine Milling of Bituminous Concrete (0" to 4") at the unit (sq. yd.) price of _____ Dollars and _____ Cents (\$_____)	3140	_____
0406600	"Material Transfer Vehicle" at the unit (ton.) price of _____ Dollars and _____ Cents (\$_____)	335	_____

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<b>ITEM NO.</b>	<b>ITEM AND UNIT PRICE</b>	<b>ENGINEER'S ESTIMATE OF QUANTITY</b>	<b>COMPUTED TOTAL</b>
0507119	"Granite Curb CB Inlet" at the unit (ea.) price of _____ Dollars and _____ Cents (\$ _____)	6	_____
0586001.10	"Type " C" CB 0'-10' Deep" at the unit (ea.) price of _____ Dollars and _____ Cents (\$ _____)	5	_____
0586040.10	"Type " C-L" CB 0'-10' Deep" at the unit (ea.) price of _____ Dollars and _____ Cents (\$ _____)	1	_____
0586050.10	"Type "C-L" CB Double Grate Type II 0'-10' Deep" at the unit (ea.) price of _____ Dollars and _____ Cents (\$ _____)	2	_____
0586703	"Convert CB to Manhole" at the unit (ea.) price of _____ Dollars and _____ Cents (\$ _____)	3	_____
0686000.12	"12" R.C.Pipe 0' – 10' Deep" at the unit (l.f.) price of _____ Dollars and _____ Cents (\$ _____)	450	_____
0686002.12	"12" R.C.Pipe (Class V) 0' - 10' Deep" at the unit (l.f.) price of _____ Dollars and _____ Cents (\$ _____)	45	_____
0811012	"Precast Concrete Curb - Straight" at the unit (l.f.) price of _____ Dollars and _____ Cents (\$ _____)	430	_____
0811013	"Precast Concrete Curb - Curved" at the unit (l.f.) price of _____ Dollars and _____ Cents (\$ _____)	40	_____
0813021A	"6" Granite Stone Curbing (Include ¼" Bevel & ThermaliseTop)" at the unit (l.f.) price of _____ Dollars and _____ Cents (\$ _____)	1450	_____
0813031A	"6" Granite Curve Stone Curbing (Include ¼" Bevel & ThermaliseTop)" at the unit (l.f.) price of _____ Dollars and _____ Cents (\$ _____)	230	_____
0813455	"Radial Granite Curb Driveway Return" at the unit (ea) price of _____ Dollars and _____ Cents (\$ _____)	17	_____
0814002	"Reset Granite Stone Curbing" at the unit (l.f.) price of _____ Dollars and _____ Cents (\$ _____)	200	_____
0815001	"Bituminous Concrete Lip Curbing" at the unit (l.f.) price of _____ Dollars and _____ Cents (\$ _____)	25	_____
0913850A	"High Visibility Safetey Fence" at the unit (l.f.) price of _____ Dollars and _____ Cents (\$ _____)	200	_____

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<b>ITEM NO.</b>	<b>ITEM AND UNIT PRICE</b>	<b>ENGINEER'S ESTIMATE OF QUANTITY</b>	<b>COMPUTED TOTAL</b>
0921001A	"Concrete Sidewalk" at the unit (s.f.) price of _____ Dollars and _____ Cents (\$ _____)	11250	_____
0921005	"Concrete Sidewalk Ramp" at the unit (s.f.) price of _____ Dollars and _____ Cents (\$ _____)	140	_____
0921010A	"Monolithic Concrete Curb and Sidewalk" at the unit (s.f.) price of _____ Dollars and _____ Cents (\$ _____)	1300	_____
0921018A	"Brick Pavers" at the unit (s.f.) price of _____ Dollars and _____ Cents (\$ _____)	4420	_____
0921039A	"Detectable Warning Strip" at the unit (ea.) price of _____ Dollars and _____ Cents (\$ _____)	2	_____
0922501	"Bituminous Concrete Driveway" at the unit (s.y.) price of _____ Dollars and _____ Cents (\$ _____)	230	_____
0922999A	"Inlaid Thermoplastic Pavement Marking System" at the unit (s.f.) price of _____ Dollars and _____ Cents (\$ _____)	315	_____
0924004	"Concrete Driveway Ramp" at the unit (cu.yd.) price of _____ Dollars and _____ Cents (\$ _____)	290	_____
0944000A	"Furnishing and Placing Topsoil" at the unit (s.y.) price of _____ Dollars and _____ Cents (\$ _____)	620	_____
0945060A	"Pine Bark Mulch" at the unit (s.y.) price of _____ Dollars and _____ Cents (\$ _____)	170	_____
0947210A	"Bicycle Rack" at the unit (ea.) price of _____ Dollars and _____ Cents (\$ _____)	1	_____
0947305A	"Install Bus Shelter" at the unit (ea.) price of _____ Dollars and _____ Cents (\$ _____)	1	_____
0947306A	"Install Cluster Box Unit" at the unit (ea.) price of _____ Dollars and _____ Cents (\$ _____)	1	_____
0949131A	"Syringa Reticlata 'Ivory Silk' Japanese Tree Lilac 2-2.5" Cal. B.B" at the unit (ea.) price of _____ Dollars and _____ Cents (\$ _____)	1	_____
0949568A	"Pennisetum Hameln-Hameln Fountain Grass" at the unit (ea.) price of _____ Dollars and _____ Cents (\$ _____)	76	_____
0949569A	"Perovskia Atriplicifolia Little Spires-Russian Sage" at the unit (ea.) price of _____ Dollars and _____ Cents (\$ _____)	17	_____

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<b>ITEM NO.</b>	<b>ITEM AND UNIT PRICE</b>	<b>ENGINEER'S ESTIMATE OF QUANTITY</b>	<b>COMPUTED TOTAL</b>
0949606A	"Root Barrier "at the unit (ea.) price of _____ Dollars and _____ Cents (\$_____)	850	_____
0949874A	"Liquidambar Styaciflua Moraine – Moraine Amer. Sweetsum" at the unit (ea.) price of _____ Dollars and _____ Cents (\$_____)	1	_____
0949947A	"Gleditsia Triacanthos Inermis Thornless Honeylocust Shade Master 2.5-3" Cal B.B" at the unit (ea.) price of _____ Dollars and _____ Cents (\$_____)	7	_____
0950005	"Turf Establishment" at the unit (s.y.) price of _____ Dollars and _____ Cents (\$_____)	480	_____
0969060A	"Construction Field Office - Small" at the unit (mo.) price of _____ Dollars and _____ Cents (\$_____)	4	_____
0970006	"Traffic Person-Municipal Police Officer" at the unit (est.) price of _____ Dollars and _____ Cents (\$_____)	\$47,000	<u>\$47,000</u>
0970007	"Traffic Person-Uniformed Flagger" at the unit (hr.) price of _____ Dollars and _____ Cents (\$_____)	90	_____
0971001A	"Maintenance and Protection Of traffic" at the unit (ls.) price of _____ Dollars and _____ Cents (\$_____)	1	_____
0975004	"Mobilization and Project Closeout" at the unit (ls.) price of _____ Dollars and _____ Cents (\$_____)	1	_____
0976002	Barricade Warning Lights-High Intensity" at the unit (day) price of _____ Dollars and _____ Cents (\$_____)	1200	_____
0977001	"Traffic Cone" at the unit (ea.) price of _____ Dollars and _____ Cents (\$_____)	20	_____
0978002	"Traffic Drum" at the unit (ea.) price of _____ Dollars and _____ Cents (\$_____)	20	_____
0980001	"Construction Staking" at the unit (ls.) price of _____ Dollars and _____ Cents (\$_____)	1	_____
1001001	"Trenching and Backfilling" at the unit (l.f.) price of _____ Dollars and _____ Cents (\$_____)	140	_____

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<b>ITEM NO.</b>	<b>ITEM AND UNIT PRICE</b>	<b>ENGINEER'S ESTIMATE OF QUANTITY</b>	<b>COMPUTED TOTAL</b>
1003894A	"Ornamental Light System" at the unit (l.s.) price of _____ Dollars and _____ Cents (\$ _____)	1	_____
1008115	"2" Rigid Metal Conduit – In Trench" at the unit (l.f.) price of _____ Dollars and _____ Cents (\$ _____)	100	_____
1008215	"2" Rigid Metal Conduit – Under Roadway" at the unit (l.f.) price of _____ Dollars and _____ Cents (\$ _____)	45	_____
1010001	"Concrete Handhole" at the unit (ea.) price of _____ Dollars and _____ Cents (\$ _____)	1	_____
1113005	"2 Conductor No.8 AWG type SE style THW" at the unit (l.f.) price of _____ Dollars and _____ Cents (\$ _____)	70	_____
1113103	"7 Conductor No.14 Cable" at the unit (l.f.) price of _____ Dollars and _____ Cents (\$ _____)	80	_____
1117111A	"Rectangular Rapid Flashing Beacon (RRFB) Type B" at the unit (ea.) price of _____ Dollars and _____ Cents (\$ _____)	2	_____
1206023A	"Removal and Relocation of Existing Signs" at the lump sum price of _____ Dollars and _____ Cents (\$ _____)	1	_____
1208931A	"Sign Face - Sheet Aluminum (Type IX Reflective Sheeting)" at the unit (s.f.) price of _____ Dollars and _____ Cents (\$ _____)	60	_____
1209114	"Hot Applied Painted Pavement Markings Yellow" at the unit (l.f.) price of _____ Dollars and _____ Cents (\$ _____)	1550	_____
1209124	"Hot Applied Painted Pavement Markings White" at the unit (l.f.) price of _____ Dollars and _____ Cents (\$ _____)	1450	_____
1210101	"4" White Epoxy Resin Pavement Markings" at the unit (l.f.) price of _____ Dollars and _____ Cents (\$ _____)	1500	_____
1210102	"4" Yellow Epoxy Resin Pavement Markings" at the unit (l.f.) price of _____ Dollars and _____ Cents (\$ _____)	1550	_____
1210105	"Epoxy Resin Pavement Markings, Symbols, and Legends" at the unit (s.f.) price of _____ Dollars and _____ Cents (\$ _____)	370	_____



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ITEM NO.	ITEM AND UNIT PRICE	ENGINEER'S ESTIMATE OF QUANTITY	COMPUTED TOTAL
1220027	"Construction Signs" at the unit (s.f.) price of _____ Dollars and _____ Cents (\$ _____)	210	_____
1403501	"Reset Manhole (Sanitary)" at the unit (ea.) price of _____ Dollars and _____ Cents (\$ _____)	6	_____

**Total Bid Amount, Written in Words:** \_\_\_\_\_

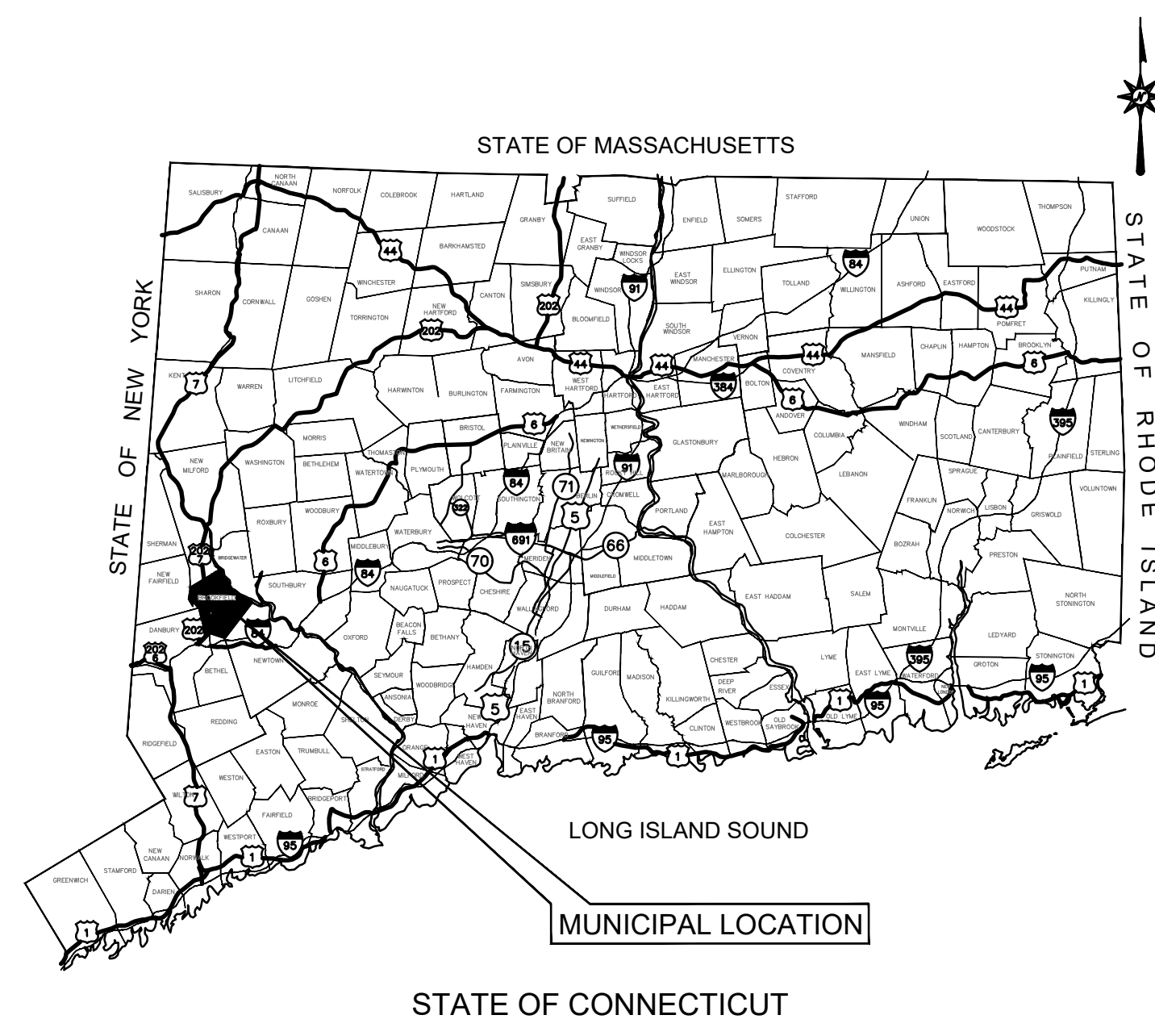
**Total Bid Amount, Written in Figures: \$** \_\_\_\_\_

**SCHEDULE OF PRICES**  
**BROOKFIELD STREETSCAPE PHASE II**  
**STATE PROJECT No. 0018-0136**  
**FAP No. 0202(015)**  
**BID ALTERNATE No.1**

<b>ITEM NO.</b>	<b>ITEM AND UNIT PRICE</b>	<b>ENGINEER'S ESTIMATE OF QUANTITY</b>	<b>COMPUTED TOTAL</b>
1500123A	"Concrete Duct Bank" at the lump sum price of _____ Dollars and _____ Cents (\$_____)	1	_____

**Total Bid Alternate No.1 Amount, Written in Words:** \_\_\_\_\_

**Total Bid Alternate No.1 Amount, Written in Figures:** \$ \_\_\_\_\_



**LOCATION MAP**  
N.T.S.

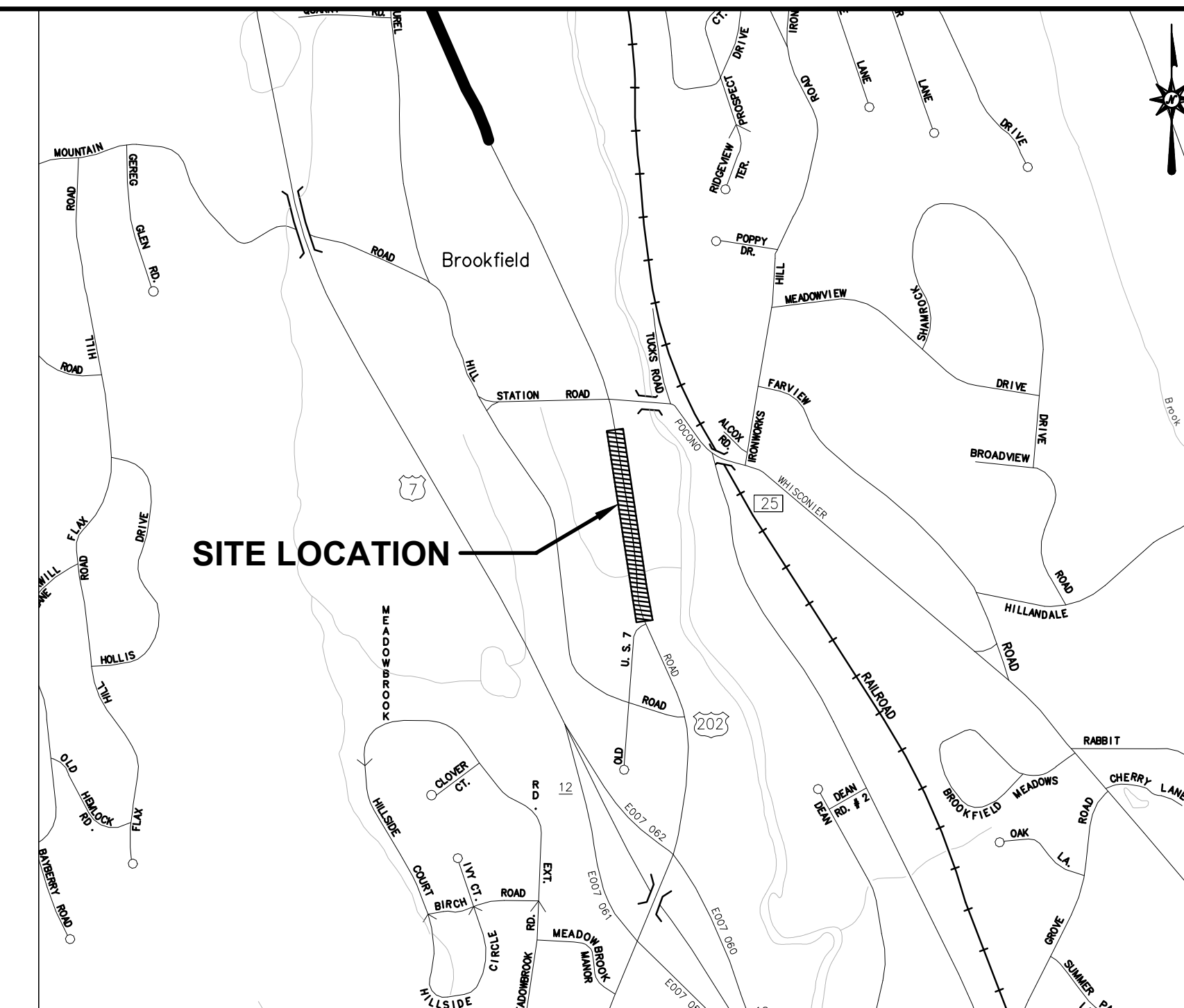
# CONSTRUCTION PLANS

## FOR

### BROOKFIELD STREETScape PHASE II

## TOWN OF BROOKFIELD, CT

STATE PROJECT NO. 0018-0136  
FAP NO. 0202(015)

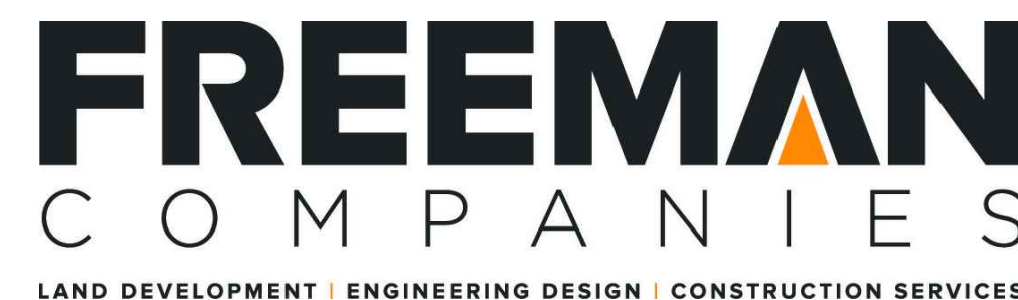


**VICINITY MAP**  
SCALE: 1"=1000'

PREPARED FOR:

**TOWN OF BROOKFIELD**  
**ROUTE 202, FEDERAL ROAD**  
**BROOKFIELD, CONNECTICUT, 06804**

PREPARED BY:



36 JOHN STREET  
HARTFORD, CONNECTICUT 06106  
TEL: (860) 251-9550  
FAX: (860) 986-7161

**GENERAL NOTES:**

CONNECTICUT DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION, FORM 817, DATED 2016; SUPPLEMENTAL SPECIFICATIONS, DATED JULY 2018; AND SPECIAL PROVISIONS.

ALL HORIZONTAL GEOMETRY ON THIS PROJECT IS BASED ON HORIZONTAL DATUM NAD83.

ALL ELEVATIONS ON THIS PROJECT BASED ON NAVD88.

DESIGN STANDARDS:

TOWN OF BROOKFIELD DESIGN STANDARDS

CONNECTICUT DEPARTMENT OF TRANSPORTATION HIGHWAY DESIGN MANUAL, 2003 EDITION.

A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS 2011 EDITION, PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO).

TOWN OF BROOKFIELD, CONNECTICUT

APPROVED BY:

STEVE DUNN  
FIRST SELECTMAN

DATE

DESIGN BY: **FREEMAN COMPANIES**  
LAND DEVELOPMENT | ENGINEERING DESIGN | CONSTRUCTION SERVICES

YUYANG LIN, P.E., PTOE.  
CT. PROFESSIONAL ENGINEER REG. NO. 23422

DATE: JAN 2019

**CONTENTS**

TITLE SHEET	
DE-1	DETAILED ESTIMATE
EX-1	TOPOGRAPHIC SURVEY
TYP-1-2	TYPICAL SECTION
MDS-1-12	MISCELLANEOUS DETAILS
HWY-1-2	ROADWAY PLAN
PRO-1-2	PROFILE PLAN
DRG-1-2	DRAINAGE PLAN
SPM-1-2	SIGNAGE & PAVEMENT MARKING PLAN
TCS-1	TRAFFIC CONTROL SIGNAL PLAN
LLP-1-2	LANDSCAPE AND LIGHTING PLAN
LP-1	LIGHTING PHOTOMETRIC PLAN
XSC-1-7	CROSS SECTIONS
	EVERSOURCE RELOCATION PLAN
ALT-1	CONCRETE DUCT PLAN

CTDOT HIGHWAY STANDARD SHEETS - 6 SHEETS  
CTDOT TRAFFIC STANDARD SHEETS - 12 SHEETS

**REVISED BY ADDENDUM NO. 2**

**DATES**

ISSUE DATE: JANUARY 2019

REVISION:

05/01/19 GENERAL NOTES REVISED

ITEM NUMBER	ITEM	UNIT	FEDERAL ROAD	UNASSIGNED	TOTAL
0201001	CLEARING AND GRUBBING	L.S.	1	0	1
0202001A	EARTH EXCAVATION	C.Y.	292	8	300
0202432A	TEST PIT	EA.	0	5	5
0202529	CUT BITUMINOUS CONCRETE PAVEMENT	L.F.	1555	15	1570
0209001	FORMATION OF SUBGRADE	S.Y.	138	12	150
0211000	ANTI-TRACKING PAD	S.Y.	32	3	35
0212000	SUBBASE	C.Y.	100	5	105
0219001	SEDIMENTATION CONTROL SYSTEM	L.F.	1004	16	1020
0219011A	SEDIMENT CONTROL SYSTEM AT CATCH BASIN	EA.	13	0	13
0286001.1	ROCK IN DRAINAGE TRENCH EXCAVATION 0'-10" DEEP	C.Y.	10	5	15
0406171	HMA S0.5	TON	120	5	125
0406172	HMA S0.375	TON	330	5	335
0406236	MATERIAL FOR TACK COAT	GAL.	315	5	320
0406273A	FINE MILLING OF BIT. CONCRETE (0" TO 4")	S.Y.	3130	10	3140
0406600	MATERIAL TRANSFER VEHICLE	TON	330	5	335
0507011A	TYPE "C" CATCH-BASIN FRAME & GRATE	EA.	6	0	6
0507119	GRANITE CURB CATCH BASIN INLET	EA.	6	0	6
0586001.10	TYPE "C" CB - 0'-10" DEEP	EA.	5	0	5
0586040.10	TYPE "C-L" CB - 0'-10" DEEP	EA.	1	0	1
0586050.10	TYPE "C-L" CB DOUBLE GRATE TYPE II - 0'-10" DEEP	EA.	2	0	2
0586703	CONVERT CB TO MANHOLE	EA.	3	0	3
0686000.12	CLASS "A" CONCRETE	C.Y.	5	2	7
0686002.12	12" R.C.PIPE - 0'-10" DEEP	L.F.	443	7	450
0811012	12" R.C.PIPE (CLASS V) - 0'-10" DEEP	L.F.	41	4	45
0811013	PRECAST CONCRETE CURB - STRAIGHT	L.F.	425	5	430
0813021A	PRECAST CONCRETE CURB - CURVED	L.F.	33	7	40
0813031A	6" GRANITE STONE CURBING (INCLUDE 1/2" BEVEL & THERMALISE TOP)	L.F.	1430	20	1450
0813455	6" GRANITE CURVE STONE CURBING (INCLUDE 1/2" BEVEL & THERMALISE TOP)	L.F.	216	14	230
0814002	RADIAL GRANITE CURB DRIVEWAY RETURN	EA.	17	0	17
0815001	RESET GRANITE STONE CURBING	L.F.	196	4	200
0913830A	BITUMINOUS CONCRETE LIP CURBING	L.F.	20	5	25
0921001A	HIGH VISIBILITY SAFETY FENCE	L.F.	190	10	200
0921005	CONCRETE SIDEWALK	S.F.	11192	58	11250
0921010A	CONCRETE SIDEWALK RAMP	S.F.	130	10	140
0921018A	MONOLITHIC CONCRETE CURB AND SIDEWALK	S.F.	240	20	260
0921039A	BRICK PAVERS	S.F.	4400	20	4420
0922301	DETECTABLE WARNING STRIP (CAST IRON)	EA.	2	0	2
0922999A	BITUMINOUS CONCRETE DRIVEWAY	S.Y.	220	10	230
0924004	INLAID THERMOPLASTIC PAVEMENT MARKING SYSTEM	S.F.	300	15	315
0944000A	CONCRETE DRIVEWAY RAMP	C.Y.	282	8	290
0945080A	FURNISHING AND PLACING TOPSOIL	S.Y.	610	10	620
0947210A	PINE BARK MULCH	S.Y.	165	5	170
0947305A	BICYCLE RACK	EA.	1	0	1
0947306A	INSTALL BUS SHELTER	EA.	1	0	1
0947306A	INSTALL CLUSTER BOX UNIT	EA.	1	0	1
0947306A	SYRINGA RETICULATA 'IVORY SILK' - JAPANESE TREE LILAC 2-2.5" CAL. B.B	EA.	1	0	1
0949131A	PENNISETUM 'HAMELN' - HAMELN FOUNTAIN GRASS - 2 GAL	EA.	76	0	76
0949588A	PEROVSKIA ATRIPLICIFOLIA 'LITTLE SPIRES' - LITTLE SPIRES RUSSIAN SAGE - 2 GAL	EA.	17	0	17
0949589A	ROOT BARRIER	L.F.	835	15	850
0949606A	LIQUIDAMBAR STYRACIFLUA 'MORAINÉ' - MORAINÉ AMER. SWEETSUM 2.5-3" CAL. B.B	EA.	1	0	1
0949874A	GLADIOLUS 'RACANTHOS' - RACANTHOS 'MONEYLOCUST SHADE MASTER 2.5-3" CAL. B.B.	EA.	7	0	7
0950005A	TURF ESTABLISHMENT	S.Y.	466	14	480
<b>SUBTOTAL</b>			<b>11250</b>	<b>140</b>	<b>11390</b>
<b>UNASSIGNED</b>			<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL</b>			<b>11250</b>	<b>140</b>	<b>11390</b>

ITEM NUMBER	ITEM	UNIT	FEDERAL ROAD	UNASSIGNED	TOTAL
0969060A	CONSTRUCTION FIELD OFFICE (SMALL)	MO.	4	0	4
0971000	TRAFFICPERSON MUNICIPAL POLICE OFFICER	EST.	1	0	1
0971007	TRAFFICPERSON (UNIFORMED FLAGGER)	HR.	90	0	90
0971001A	MAINTENANCE AND PROTECTION OF TRAFFIC	L.S.	1	0	1
0975004	MOBILIZATION AND PROJECT CLOSEOUT	L.S.	1	0	1
0978002	BARICADE WARNING LIGHTS - HIGH INTENSITY	DAY	1200	0	1200
0977001	TRAFFIC CONE	EA.	20	0	20
0978002	TRAFFIC DRUM	EA.	20	0	20
0980001	CONSTRUCTION STAKING	L.S.	1	0	1
1001001	TRENCHING AND BACKFILLING	L.F.	135	5	140
1003894A	ORNAMENTAL LIGHT SYSTEM	L.S.	1	0	1
1008115	2" RIGID METAL CONDUIT - IN TRENCH	L.F.	95	5	100
1008215	2" RIGID METAL CONDUIT - UNDER ROADWAY	L.F.	40	5	45
1010001	CONCRETE HANDHOLE	EA.	1	0	1
1113005	2 CONDUCTOR NO.8 AWG TYPE SE STYLE THW	L.F.	63	7	70
1113103	7 CONDUCTOR NO.14CABLE	L.F.	72	8	80
1117111A	RECTANGULAR RAPID FLASHING BEACON (RRFB) TYPE B	EA.	2	0	2
1206023A	REMOVAL AND RELOCATION OF EXISTING SIGNS	L.S.	1	0	1
1208931A	SIGN FACE - SHEET ALUMINUM (TYPE IX REFLECTIVE SHEETING)	S.F.	51	9	60
1209114	HOT-APPLIED PAINTED PAVEMENT MARKINGS YELLOW	L.F.	1530	15	1545
1209124	HOT-APPLIED PAINTED PAVEMENT MARKINGS WHITE	L.F.	1430	15	1445
1210101	4" WHITE EPOXY PAVEMENT MARKINGS	L.F.	1490	10	1500
1210102	4" YELLOW EPOXY PAVEMENT MARKINGS	L.F.	1530	7	1537
1210105	EPOXY RESIN PAVEMENT, MARKINGS, SYMBOLS, AND LEGENDS	S.F.	365	5	370
1220027	CONSTRUCTION SIGNS	S.F.	200	10	210
1403501	RESET MANHOLE (SANITARY)	EA.	6	0	6
<b>SUBTOTAL</b>			<b>1550</b>	<b>140</b>	<b>1690</b>
<b>UNASSIGNED</b>			<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL</b>			<b>1550</b>	<b>140</b>	<b>1690</b>

ITEM NUMBER	ITEM	UNIT	FEDERAL ROAD	UNASSIGNED	TOTAL
1500123A	BID ALTERNATE NO.1 ITEM	L.S.	1	0	1
	CONCRETE DUCT BANK				
<b>SUBTOTAL</b>			<b>1</b>	<b>0</b>	<b>1</b>
<b>UNASSIGNED</b>			<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL</b>			<b>1</b>	<b>0</b>	<b>1</b>

NOT A LEGAL DEFINITION  
 NP= FEDERAL AID NON PARTICIPATING  
 =FOR INTERNAL USE ONLY  
**A = \*\* See Special Provisions \*\***

**REVISED BY ADDENDUM NO. 2**

**FREEMAN COMPANIES**  
 DBE | DAS | MBE | GNISDC CERTIFIED  
 CIVIL | GEOTECHNICAL | SURVEY | ENVIRONMENTAL  
 38 JOHN STREET  
 HARTFORD, CT 06106  
 WWW.FREEMANCO.COM  
 (860)251-9500  
 TOLL FREE: (800)264-5141  
 FAX: (860)264-7141  
 ELEVATE YOUR EXPECTATIONS

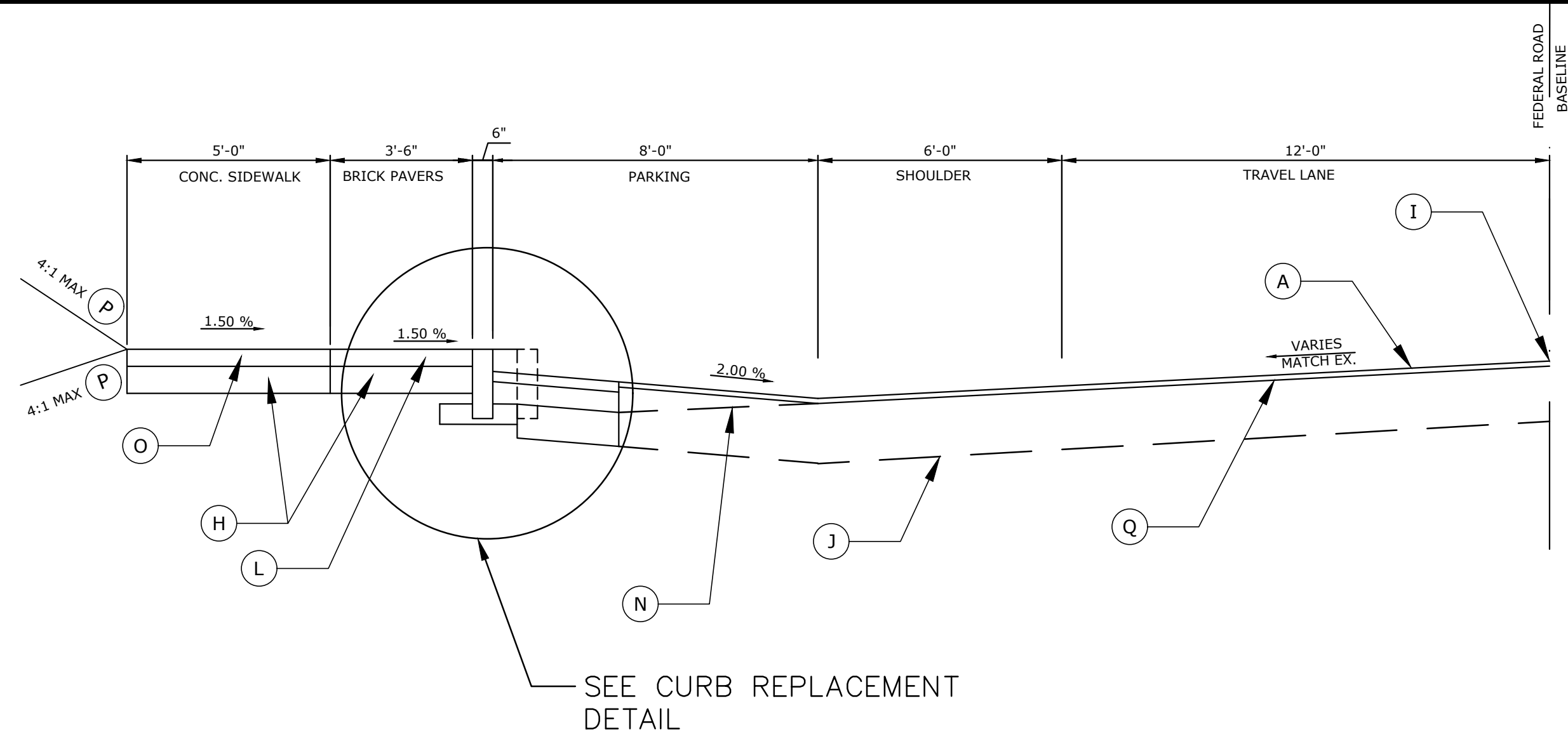
PREPARED FOR  
 TOWN OF BROOKFIELD  
 100 POCONO ROAD  
 BROOKFIELD, CONNECTICUT 06804

OWNER FOR  
 TOWN OF BROOKFIELD  
 100 POCONO ROAD  
 BROOKFIELD, CONNECTICUT 06804

YUYANG LIH, P.E., PTOE NO. 23423

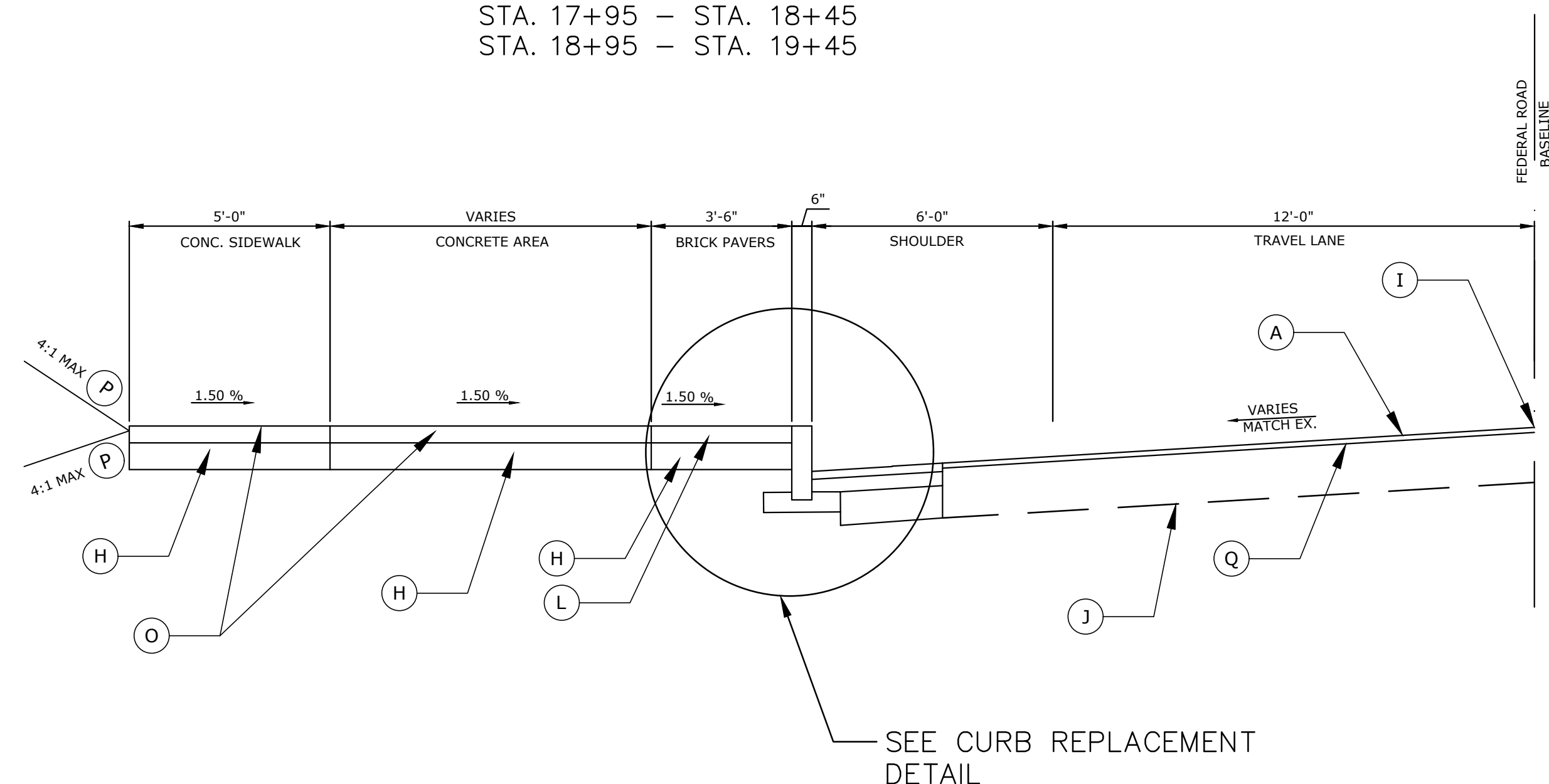
# BROOKFIELD STREETScape PHASE II ROUTE 202 (FEDERAL ROAD) BROOKFIELD, CONNECTICUT

DESIGNED: YL	TITLE: DETAILED ESTIMATE
DRAFTED: PT	SHEET NUMBER: DE-1.A2
CHECKED: RG	
APPROVED:	
SCALE: 1" = 5'	
PROJECT NO.: 2017-0605	
DATE: 03/7/2019	
FILE: Detailed Estimate	
NO. DATE DESCRIPTION	REVISIONS
05/01/19	ITEM NUMBERS AND QUANTITY REVISED



**FEDERAL ROAD WEST SIDE TYPICAL SECTION NO. 1**

STA. 13+90 – STA. 16+18  
 STA. 16+90 – STA. 17+35  
 STA. 17+95 – STA. 18+45  
 STA. 18+95 – STA. 19+45

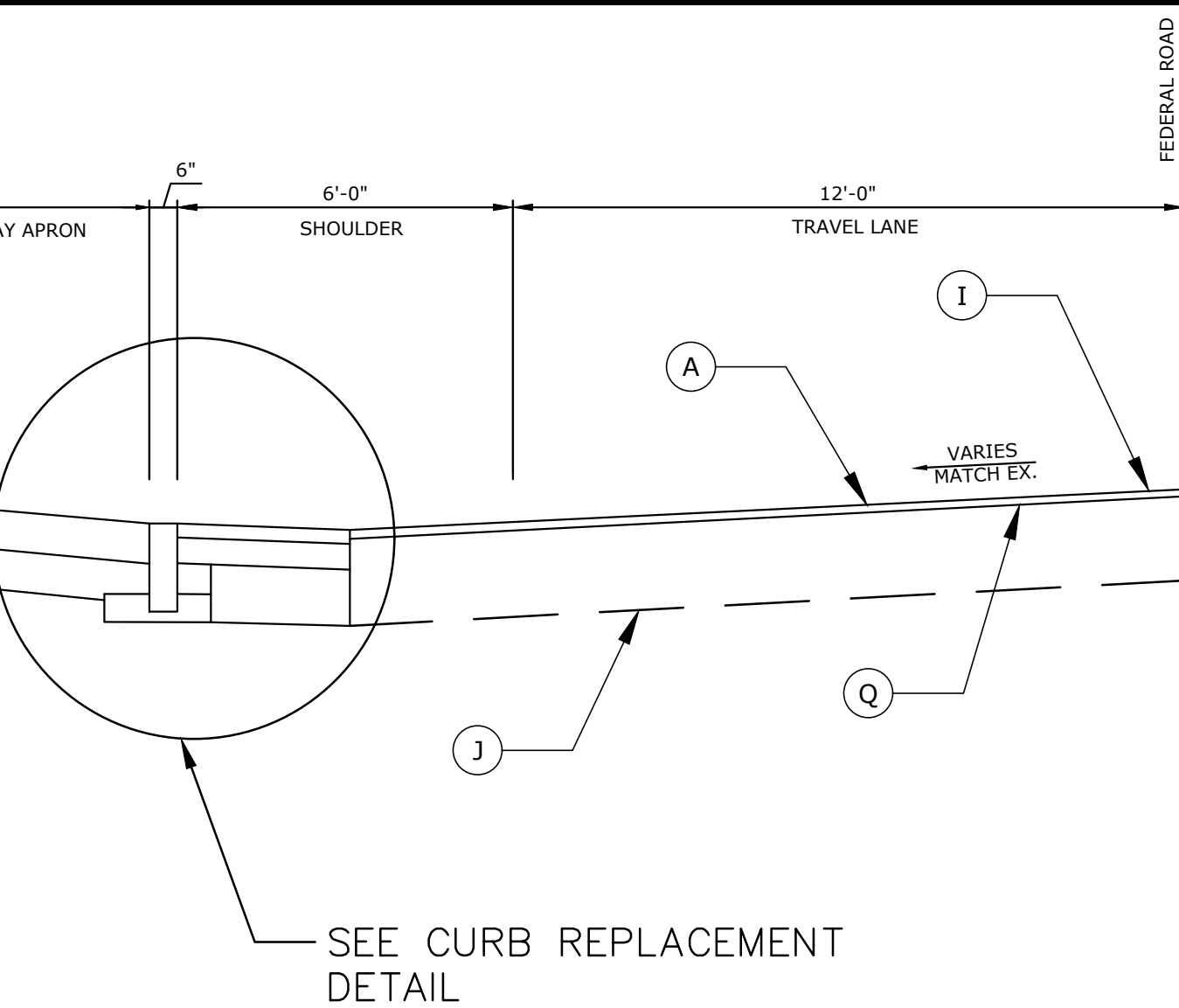


**FEDERAL ROAD WEST SIDE TYPICAL SECTION NO. 3**

STA. 16+18 – STA. 16+53  
 STA. 16+76 – STA. 16+90  
 STA. 17+35 – STA. 17+59  
 STA. 17+82 – STA. 17+95  
 STA. 18+45 – STA. 18+57  
 STA. 18+81 – STA. 18+95  
 STA. 19+45 – STA. 19+80  
 STA. 20+05 – STA. 20+29

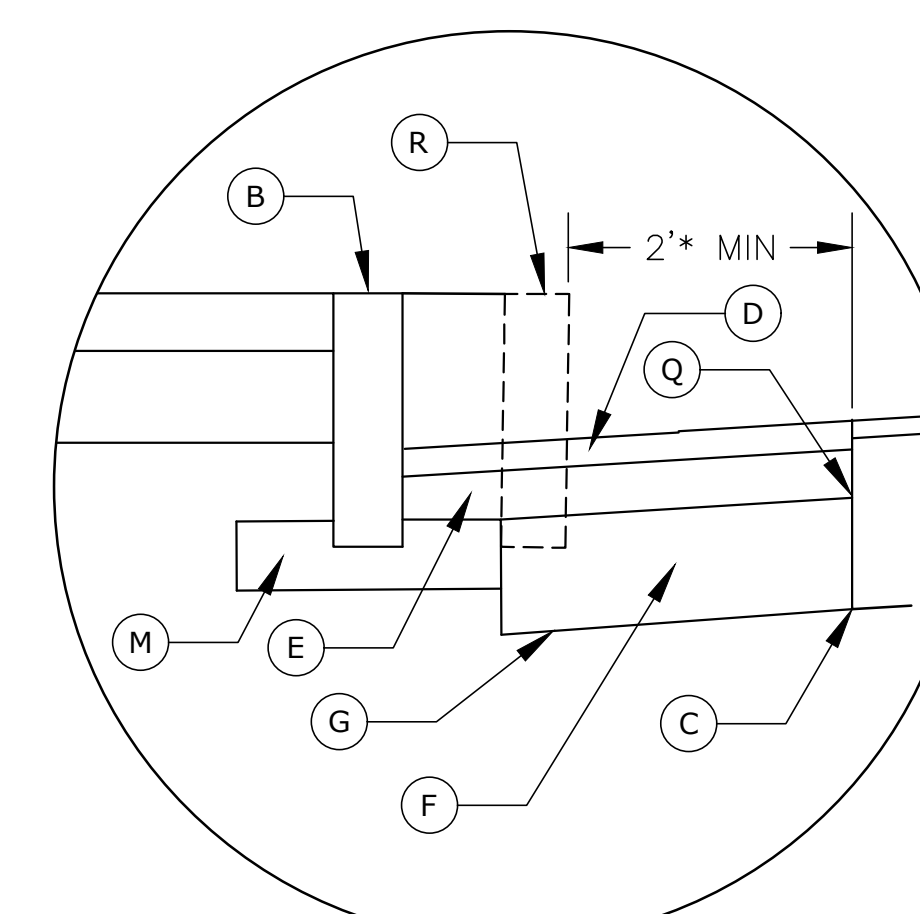
**TYPICAL SECTION LEGEND**

- (A) 1-1/2" MILL & 1-1/2" BITUMINOUS OVERLAY OF HMA S0.375 TRAFFIC LEVEL 2
- (B) GRANITE CURB
- (C) SAW CUT PAVEMENT
- (D) 3" HMA S0.375 TRAFFIC LEVEL 2 (PLACED IN TWO LIFTS)
- (E) 6" HMA S0.5 TRAFFIC LEVEL 2 (PLACED IN TWO LIFTS)
- (F) 10" SUBBASE
- (G) FORMATION OF SUBGRADE
- (H) 8" GRANULAR FILL
- (I) POINT OF APPLICATION OF GRADE
- (J) EXISTING ROADWAY STRUCTURE
- (K) 8" CLASS "F" CONCRETE\*\*\*
- (L) 2.25"x4"x8" BRICK PAVERS\*\*
- (M) 6" GRANULAR FILL
- (N) HMA S0.375 SHIMMING (DEPTH VARIES FROM 0.5" TO 2.5")
- (O) 5" CLASS "F" CONCRETE
- (P) 4" TOPSOIL AND TURF ESTABLISHMENT
- (Q) TACK COAT
- (R) RESET EXISTING GRANITE CURB



**FEDERAL ROAD WEST SIDE TYPICAL SECTION NO. 2**

STA. 16+53 – STA. 16+76  
 STA. 17+59 – STA. 17+82  
 STA. 18+57 – STA. 18+81  
 STA. 19+80 – STA. 20+05



**CURB REPLACEMENT DETAIL**

\* 2' MIN FROM EXISTING CURB OR EDGE OF ROAD.

\*\* SEE MDS-2 FOR DETAILS  
 \*\*\* SEE HIGHWAY STANDARD SHEET NO. HW-921-01

**REVISED BY ADDENDUM NO. 2**

**BROOKFIELD STREETSCAPE PHASE II  
 ROUTE 202 (FEDERAL ROAD)  
 BROOKFIELD, CONNECTICUT**

**FREEMAN COMPANIES**  
 DBE | DAS | ABE | GNASDC CERTIFIED  
 CIVIL | GEOTECHNICAL | SURVEY | ENVIRONMENTAL  
 30 JOHN STREET  
 HARTFORD, CT 06106  
 WWW.FREEMANCO.COM  
 (860) 511-9500  
 TOLL FREE (800) 604-5141  
 FAX: (860) 604-7151  
 ELEVATE YOUR EXPECTATIONS

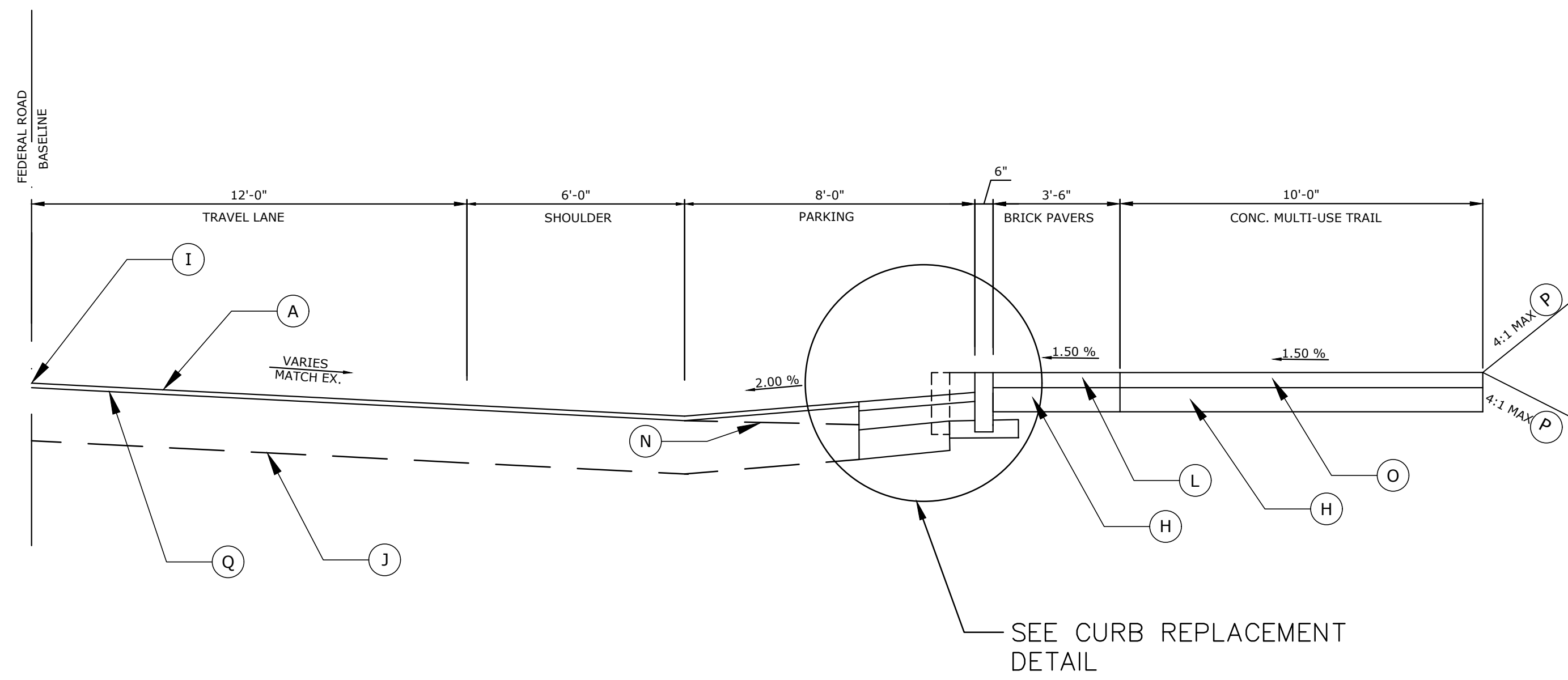
PREPARED FOR  
 TOWN OF BROOKFIELD  
 100 POCONO ROAD  
 BROOKFIELD,  
 CONNECTICUT 06804

OWNER FOR  
 TOWN OF BROOKFIELD  
 100 POCONO ROAD  
 BROOKFIELD,  
 CONNECTICUT 06804

NO.	DATE	DESCRIPTION
05/01/19		DRIVEWAY SLOPE REVISED
		REVISIONS

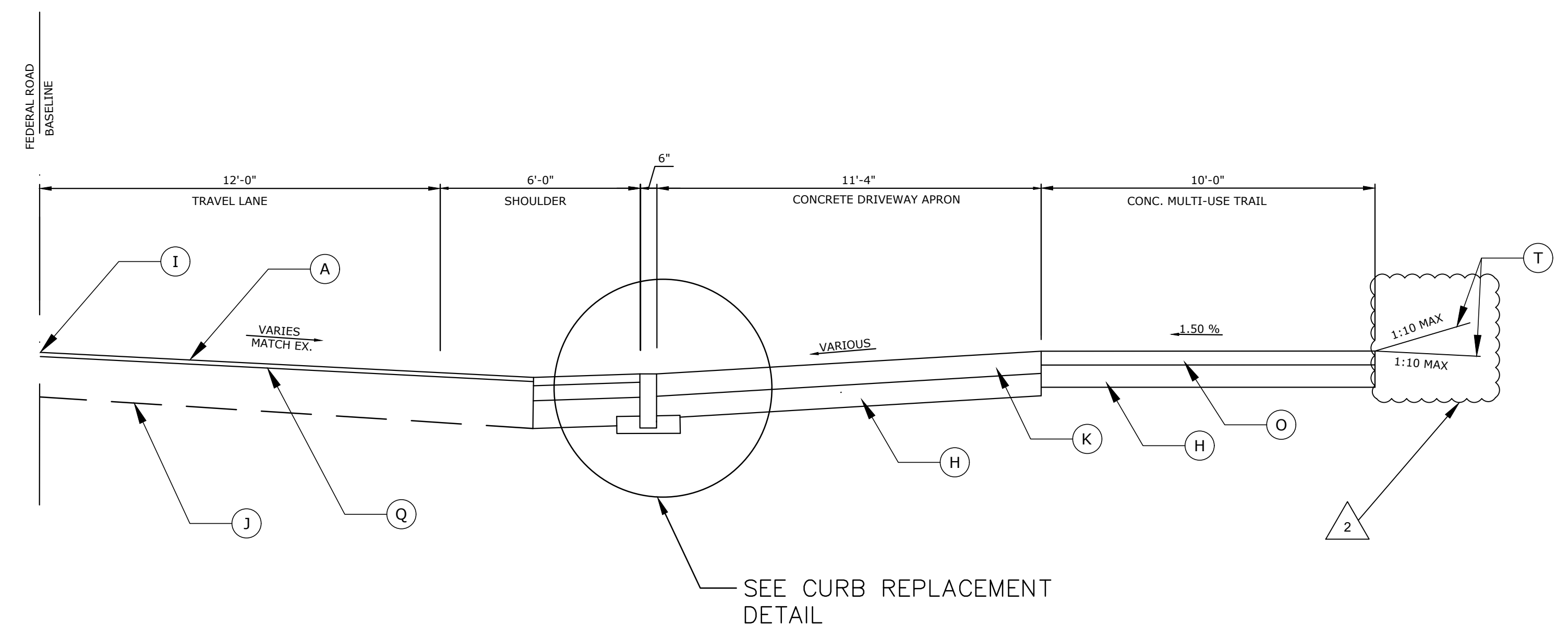
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DRAFTED: PT	SHEET NUMBER: TYP-1.A2
CHECKED: RG	
APPROVED:	
SCALE: NOT TO SCALE	
PROJECT NO.: 2017-0605	
DATE: 04/17/2019	
FILE: HW_MSH_2017_0605_TYP	

Freeman Companies, LLC. R:\2017\2017-0605 Brookfield Streetscape Phase 2\DWG\MSH\_2017\_0605\_TYP.dwg Apr 30, 2019 2:55pm Plotted By: pltkhuri



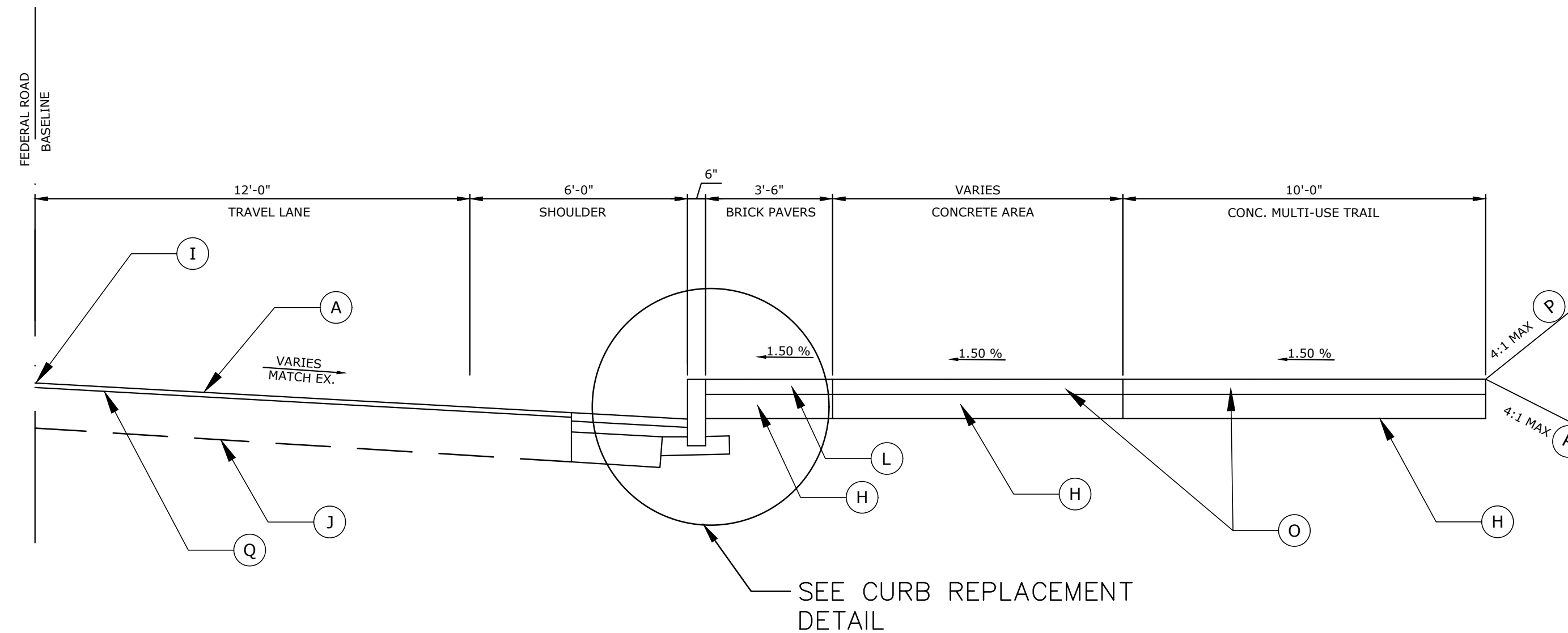
**FEDERAL ROAD EAST SIDE TYPICAL SECTION NO. 1**

STA. 14+57 – STA. 15+15  
 STA. 16+60 – STA. 18+20



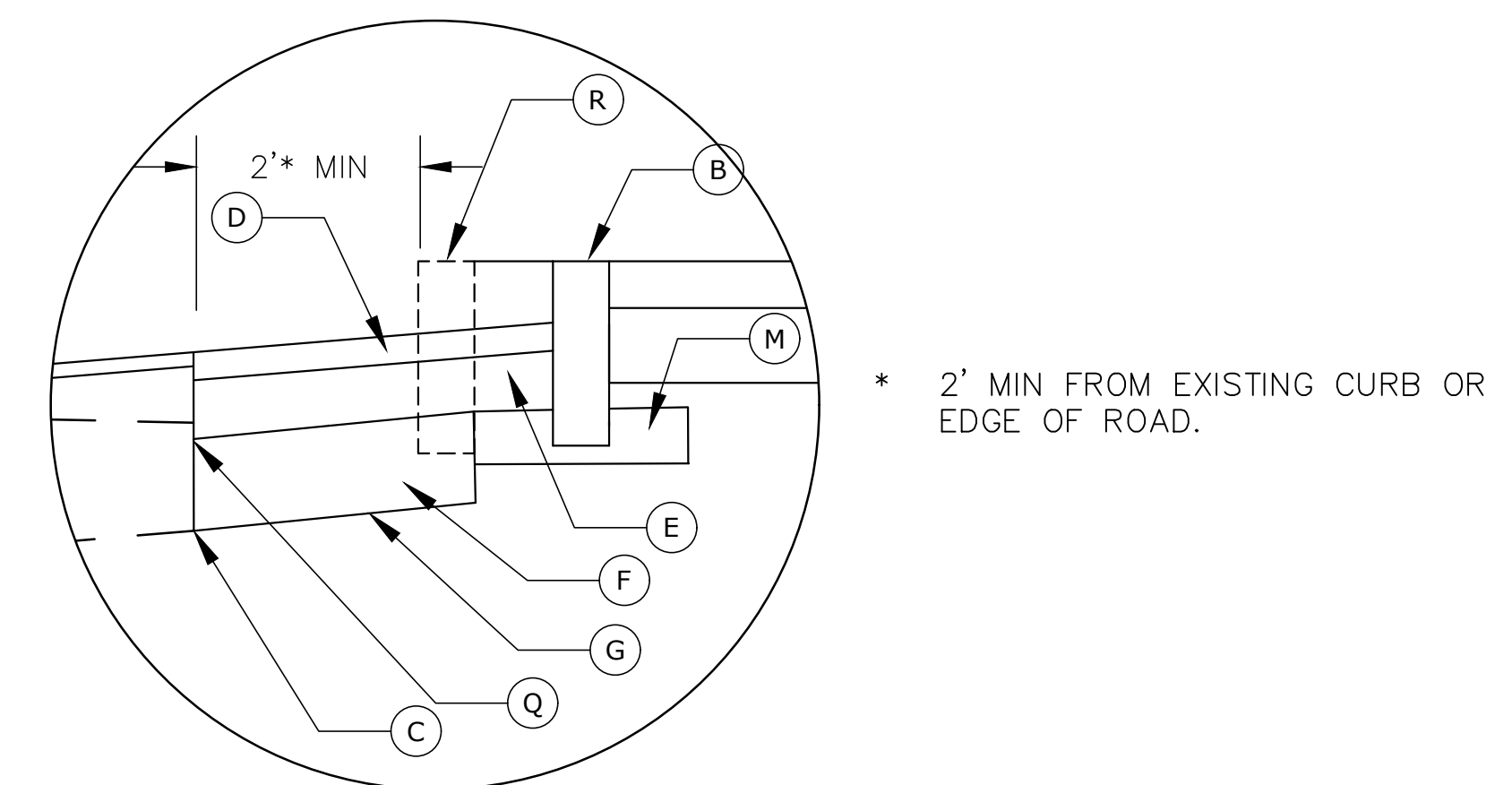
**FEDERAL ROAD EAST SIDE TYPICAL SECTION NO. 2**

STA. 15+38 – STA. 15+64  
 STA. 16+16 – STA. 16+37  
 STA. 18+32 – STA. 18+86  
 STA. 19+22 – STA. 19+48



**FEDERAL ROAD EAST SIDE TYPICAL SECTION NO. 3**

STA. 14+48 – STA. 14+57  
 STA. 15+15 – STA. 15+38  
 STA. 15+64 – STA. 16+16  
 STA. 16+37 – STA. 16+60  
 STA. 18+20 – STA. 18+75  
 STA. 18+99 – STA. 19+22  
 STA. 19+48 – STA. 20+96



**CURB REPLACEMENT DETAIL**

**TYPICAL SECTION LEGEND**

- (A) 1-1/2" MILL & 1-1/2" BITUMINOUS OVERLAY OF HMA S0.375 TRAFFIC LEVEL 2
- (B) GRANITE CURB
- (C) SAW CUT PAVEMENT
- (D) 3" HMA S0.375 TRAFFIC LEVEL 2 (PLACED IN TWO LIFTS)
- (E) 6" HMA S0.5 TRAFFIC LEVEL 2 (PLACED IN TWO LIFTS)
- (F) 10" SUBBASE
- (G) FORMATION OF SUBGRADE
- (H) 8" GRANULAR FILL
- (I) POINT OF APPLICATION OF GRADE
- (J) EXISTING ROADWAY STRUCTURE
- (K) 8" CLASS "F" CONCRETE\*\*\*
- (L) 2.25"x4"x8" BRICK PAVERS\*\*
- (M) 6" GRANULAR FILL
- (N) HMA S0.375 SHIMMING (DEPTH VARIES FROM 0.5" TO 2.5")
- (O) 5" CLASS "F" CONCRETE
- (P) 4" TOPSOIL AND TURF ESTABLISHMENT

- (Q) TACK COAT
- (R) RESET EXISTING GRANITE CURB
- (T) BITUMINOUS CONCRETE DRIVEWAY

\*\* SEE MDS-2 FOR DETAILS  
 \*\*\* SEE HIGHWAY STANDARD SHEET NO. HW-921-01

**REVISED BY ADDENDUM NO. 2**

**BROOKFIELD STREETScape PHASE II  
 ROUTE 202 (FEDERAL ROAD)  
 BROOKFIELD, CONNECTICUT**

**FREEMAN COMPANIES**  
 DBE | DAS | MBE | GNASDC CERTIFIED  
 CIVIL | GEOTECHNICAL | SURVEY | ENVIRONMENTAL  
 36 JOHN STREET  
 HARTFORD, CT 06106  
 WWW.FREEMANCO.COM  
 (860) 251-9900  
 TOLL FREE (800) 604-5141  
 FAX: (860) 251-7151  
 ELEVATE YOUR EXPECTATIONS

PREPARED FOR  
 TOWN OF BROOKFIELD  
 100 POCONO ROAD  
 BROOKFIELD,  
 CONNECTICUT 06804  
 OWNER FOR  
 TOWN OF BROOKFIELD  
 100 POCONO ROAD  
 BROOKFIELD,  
 CONNECTICUT 06804

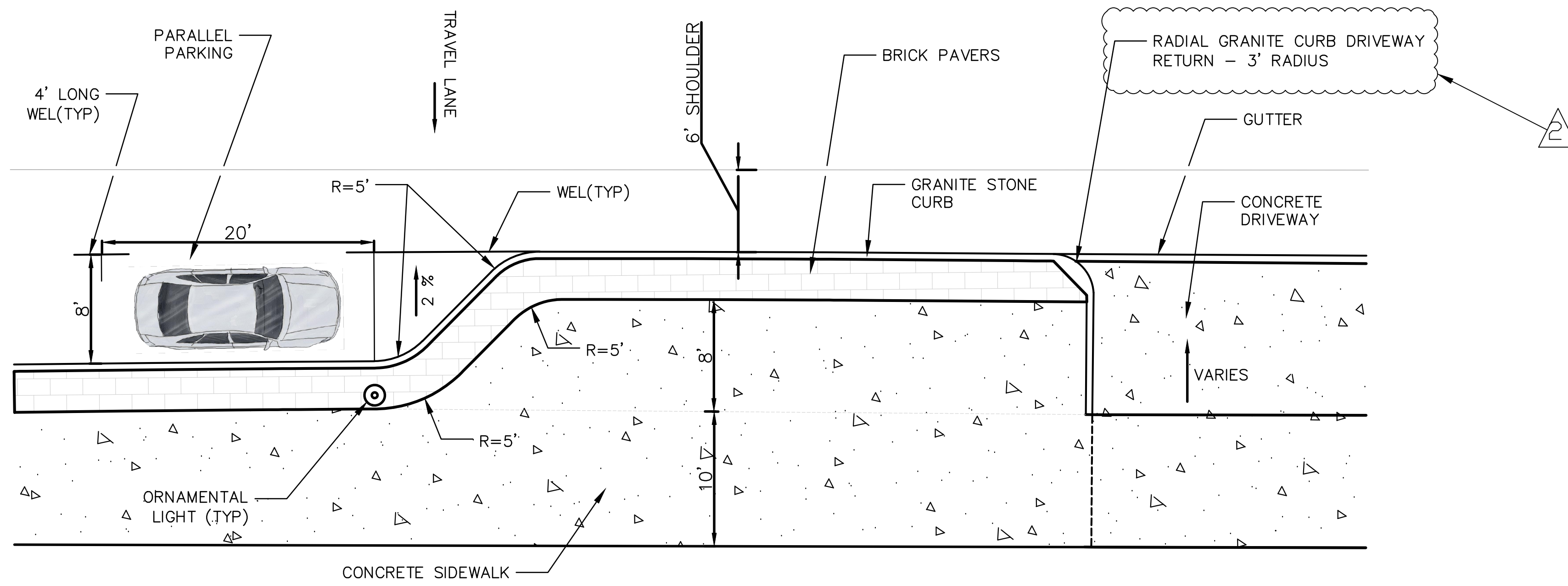
DESIGNED BY: YL  
 DRAFTED BY: PT  
 CHECKED BY: RG  
 APPROVED BY:  
 SCALE: NOT TO SCALE  
 PROJECT NO.: 2017-0605  
 DATE: 04/17/2019  
 FILE: HW\_MSH\_2017\_0605\_TYP

NO. DATE DESCRIPTION REVISIONS

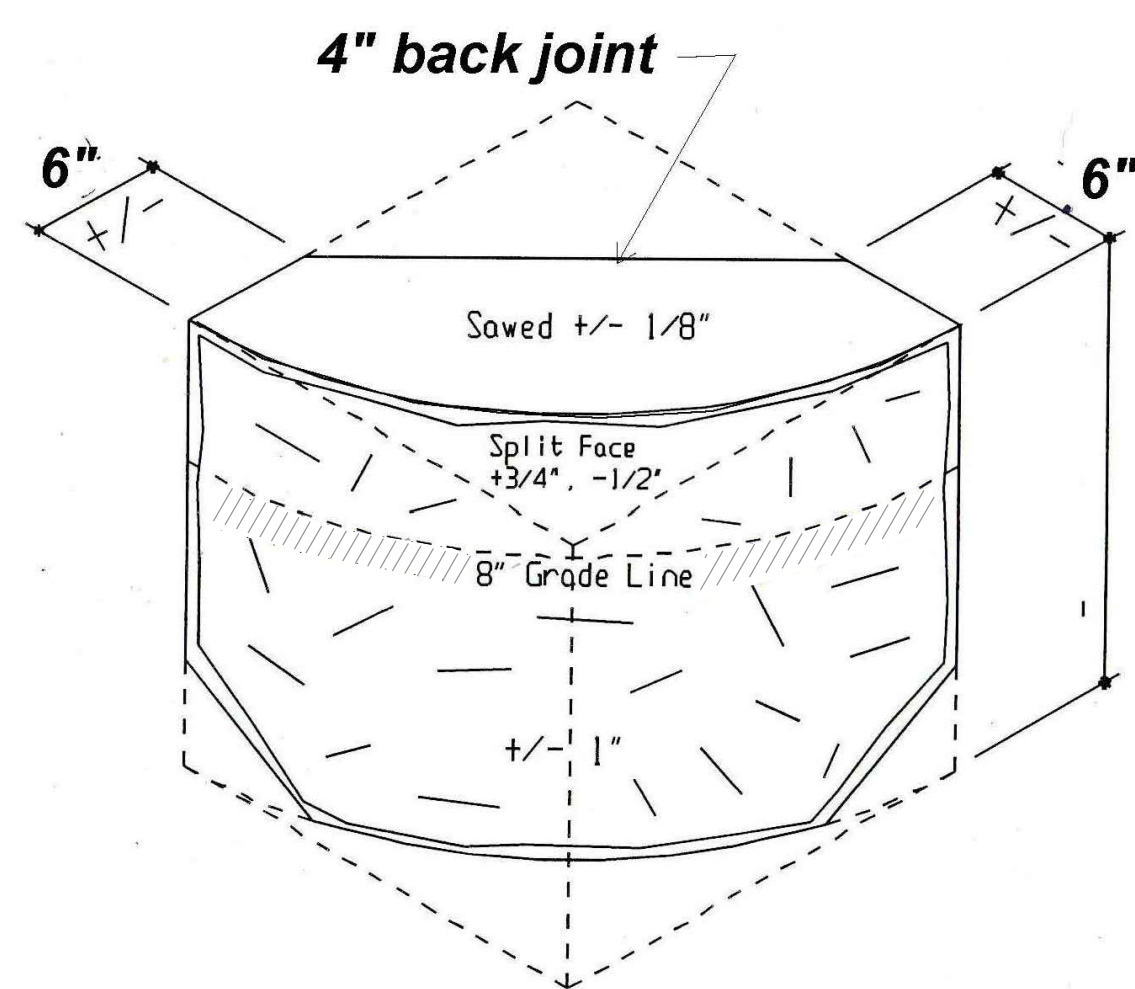
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 SCALE: NOT TO SCALE  
 PROJECT NO.: 2017-0605  
 DATE: 04/17/2019  
 FILE: HW\_MSH\_2017\_0605\_TYP

TITLE: TYPICAL SECTION  
 SHEET NUMBER: TYP-2.A2

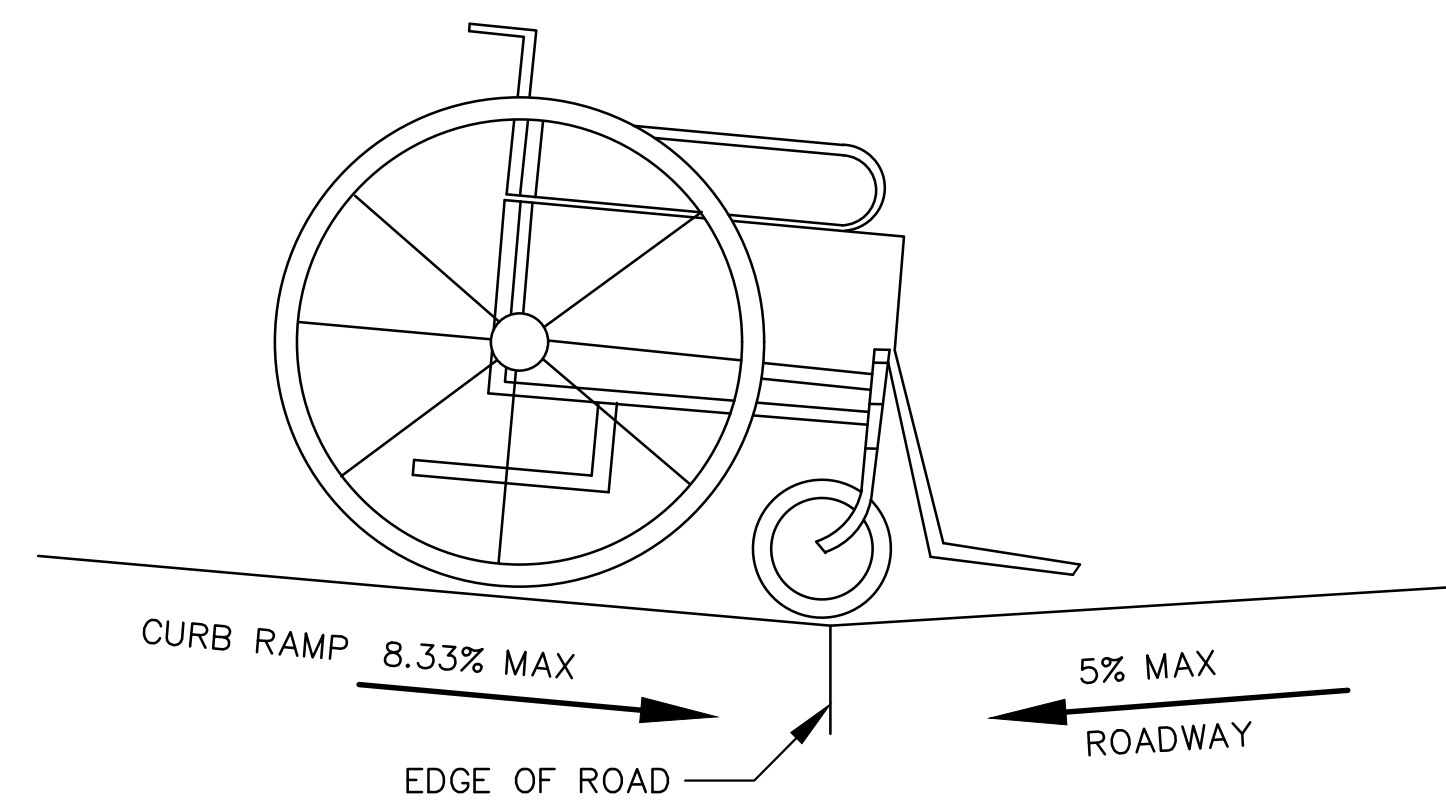
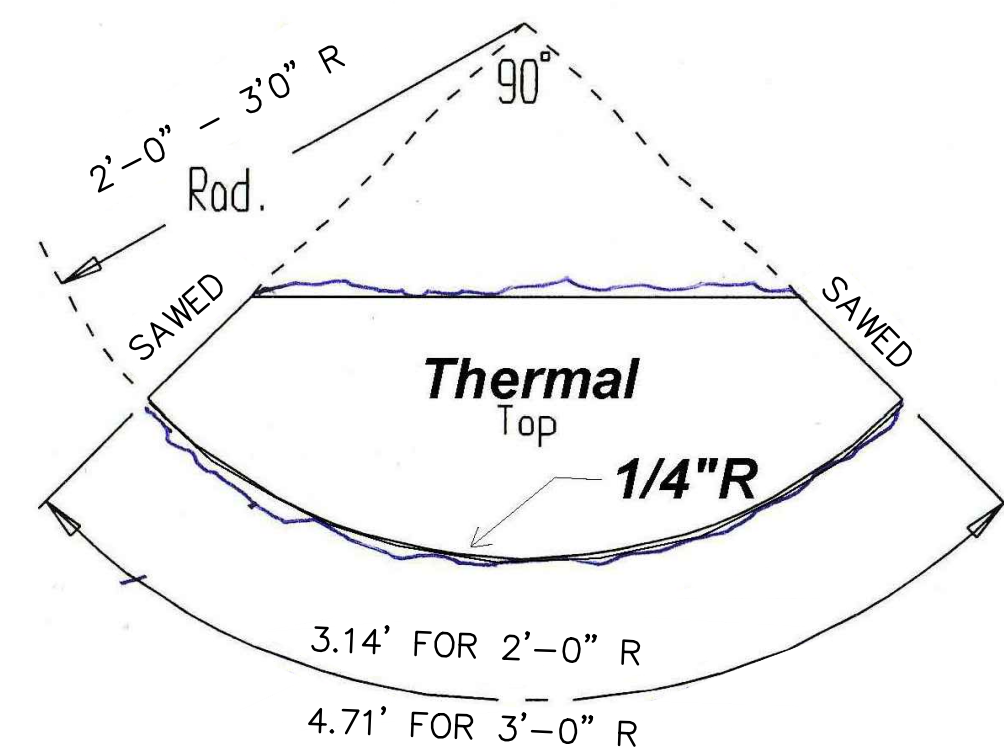
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**BUMP OUT DETAIL**



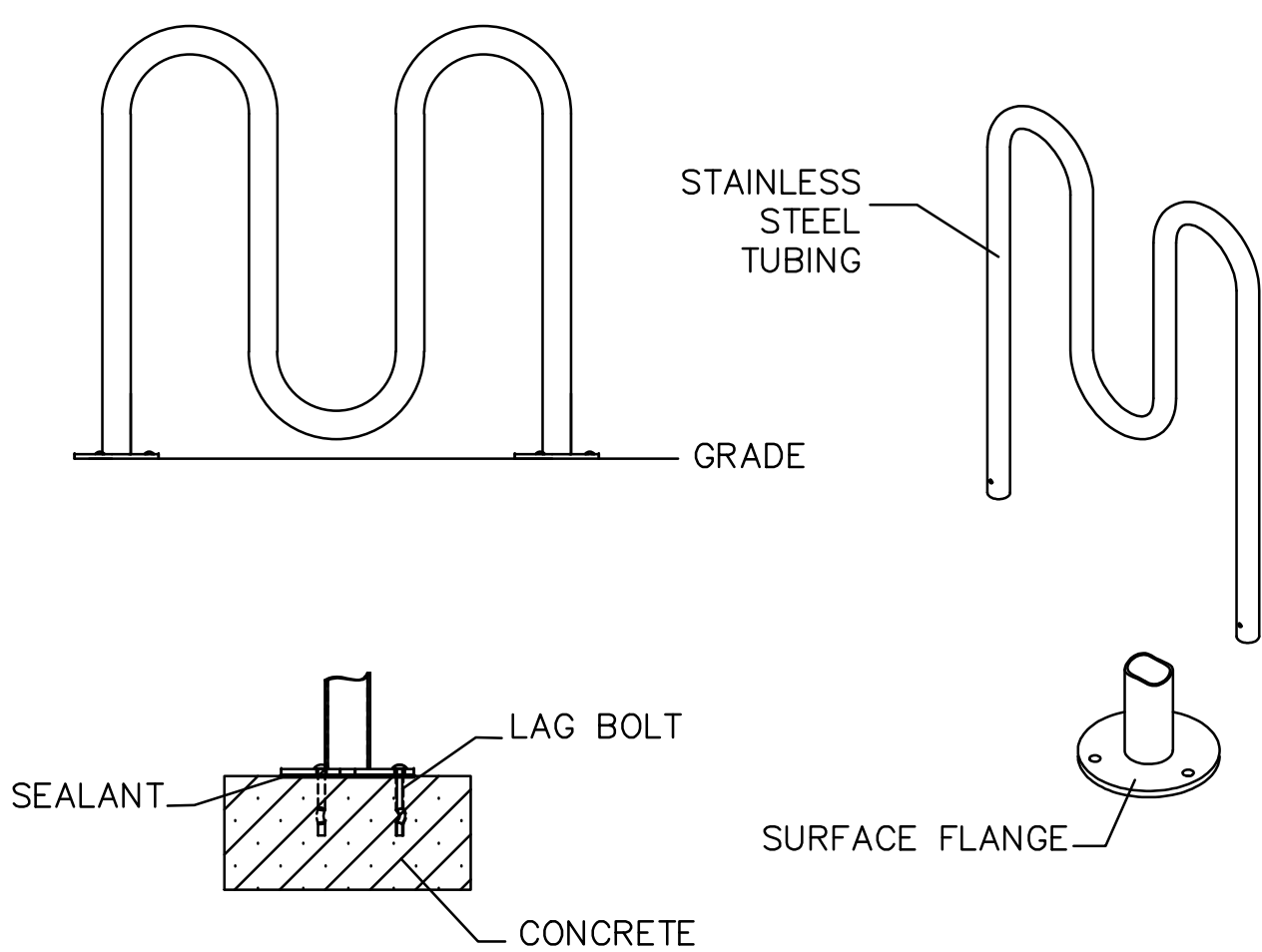
**RADIAL GRANITE CURB DRIVEWAY RETURN - 3' RADIUS**



**SEE GRADE CHANGE AT ROADWAY INTERFACE**

**GENERAL NOTES:**

1. MAXIMUM SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE SIDEWALK RAMP SHOULD NOT EXCEED 5%. THE MAXIMUM GRADE DIFFERENCE BETWEEN THE GUTTER AND CURB RAMP SHALL NOT EXCEED 13%.
2. RAMP GRADE SHALL BE UNIFORM, FREE OF SAGS AND ABRUPT GRADE CHANGES.
3. ALL RAMP SHALL BE CONSTRUCTED OF CLASS "F" CONCRETE IN ACCORDANCE WITH CONNECTICUT STANDARD SPECIFICATIONS.
4. SIDEWALK RAMP SHALL HAVE A COARSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP. THE SURFACE OF ALL SIDEWALK RAMP SHALL BE STABLE, FIRM AND SLIP RESISTANT. SURFACE DISCONTINUITIES SHALL NOT EXCEED 1/8" (13) MAX. VERTICAL DISCONTINUITIES BETWEEN 1/4" (6.4) AND 1/2" (13) MAX. SHALL BE BEVELED 1:2 MINIMUM APPLIED ACROSS THE ENTIRE LEVEL CHANGE.
5. DIAGONAL SIDEWALK RAMP AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES. DIAGONAL AND PERPENDICULAR RAMP SHALL HAVE THE RAMP CUT PERPENDICULAR TO THE TANGENT OF THE CURB RADIUS FOR THE DESIGNATED ACCESSIBLE ROUTE. BOTH LONGITUDINAL SIDES OF THE RAMP SHOULD BE THE SAME LENGTH. SKEWED RAMP SHOULD BE AVOIDED. FLARES ARE NOT CONSIDERED PART OF PEDESTRIAN ACCESS ROUTE. DIAGONAL RAMP SHOULD NOT BE INSTALLED WHERE CURB RADIUS IS LESS THAN 20'(6096).
6. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT. 8.3% MAXIMUM SLOPE MAY NOT BE ACHIEVABLE DUE TO EXISTING SIDEWALK GRADE. IN RECOGNITION OF THIS, A LIMIT OF 15' (4572) FOR REMOVAL SHALL BE USED UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER. SAW CUT REQUIRED FOR DUMMY JOINTS SHALL BE INCLUDED IN THE COST OF "CONCRETE SIDEWALK RAMP" OR "CONCRETE SIDEWALK".
7. EXPANSION JOINTS IN CONCRETE SHALL MATCH THOSE IN ADJACENT SIDEWALKS BUT IN NO CASE SHALL THE SPACING BETWEEN EXPANSION JOINTS EXCEED 12' (3658) UNLESS OTHERWISE NOTED.
8. CONCRETE SIDEWALK RAMP, SHALL BE PAID FOR UNDER THE ITEM "CONCRETE SIDEWALK RAMP", AS DEFINED BY THE CONSTRUCTION LIMITS ON THE PLANS AND SHALL BE FIELD VERIFIED.
9. CURBING OUTSIDE LIMITS OF RAMP OR LANDING SHALL BE CONSTRUCTED AND PAID FOR IN ACCORDANCE WITH CONNECTICUT STANDARD SPECIFICATIONS.
10. PREFERRED LOCATION TO INSTALL DETECTABLE WARNING STRIP SHALL BE 6" (152) FROM THE EDGE OF ROAD ALONG THE FULL WIDTH OF THE RAMP. FOR ALTERNATE LOCATIONS, REFER TO DETECTABLE WARNING PLACEMENT DETAILS ON THIS SHEET.
11. TO PERMIT WHEELCHAIR WHEELS TO ROLL BETWEEN DOMES, ALIGN DOMES ON A SQUARE GRID IN THE DIRECTION OF RUNNING SLOPE (PERPENDICULAR TO CURB OR SLOPE BREAK). THE TRANSITION FROM RAMP TO GUTTER SHALL BE FLUSH WITHOUT A LIP.
12. WHERE COMMERCIAL DRIVEWAYS ARE PROVIDED WITH TRAFFIC SIGNALS AND THE SIDEWALK IS CONTINUOUS THROUGH DRIVEWAY, DETECTABLE WARNINGS ARE REQUIRED AT THE JUNCTION BETWEEN THE PEDESTRIAN ROUTE AND DRIVEWAY.
13. CONSTRUCT A SIDEWALK CURB WHEN THERE IS INSUFFICIENT BUFFER AVAILABLE TO GRADE OR WHEN CALLED FOR IN PLANS. PAID FOR WITH SIDEWALK RAMP WHEN REQUIRED FOR RAMP.
14. THE TOP AND BOTTOM OF RAMP SHOULD BE PROVIDED WITH A 4' x 4' (1219 x 1219) MINIMUM LEVEL LANDING AREA WITH A CROSS SLOPE LESS THAN OR EQUAL TO 2% IN ANY DIRECTION.
15. UTILITY POLES, LUMINARIES, PEDESTRIAN OR SIGNAL POLES, GRATES, ACCESS COVERS, AND OTHER APPURTENANCES SHALL NOT BE LOCATED ON RAMP, LANDINGS, BLENDED TRANSITIONS, AND @ GUTTERS WITHIN THE PEDESTRIAN ACCESS ROUTE.
16. APPROACH SIDEWALK WIDTHS, GRASS STRIP OR UTILITY STRIP WIDTHS MAY VARY.
17. APPROACH SIDEWALK AND LANDING CROSS SLOPE SHALL NOT EXCEED 2%.
18. THE RUNNING OR CROSS SLOPES ON LANDINGS AT MID BLOCK CROSSING MAY BE WARPED TO MEET STREET OR HIGHWAY GRADE.
19. FOR PERPENDICULAR CURB RAMP A MIN. 4'(1.2m) x 4'(1.2m) LEVEL LANDING SHALL BE PROVIDED AT THE TOP OF CURB RAMP. WHERE THE LEVEL LANDING IS RESTRICTED AT THE BACK OF SIDEWALK THE LEVEL LANDING SHALL BE 4'(1.2m) x 5'(1.5m) WITH THE 5'(1.5m) DIMENSION PROVIDED IN THE DIRECTION OF THE RAMP RUN.
20. FOR PARALLEL CURB RAMP, A MIN. 4'(1.2m) x 4'(1.2m) LEVEL LANDING SHALL BE PROVIDED AT THE BOTTOM OF CURB RAMP. IF THE LEVEL LANDING IS RESTRICTED ON 2 OR MORE SIDES, THE LEVEL LANDING SHALL BE 4'(1.2m) x 5'(1.5m) WITH THE 5' (1.5m) DIMENSION PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.
21. WHEN WIDTH OF SIDEWALK IS >48" AND A PERPENDICULAR SIDEWALK RAMP IS INSTALLED, THE FLARED SIDES SHALL BE 10% MAX. IF WIDTH OF SIDEWALK IS <48" THE FLARED SIDES MUST NOT EXCEED 8.33% (12:1).
22. SHADED AREAS ARE TYPICAL PAY LIMITS FOR CONCRETE SIDEWALK RAMP BUT, MAY VARY AS DIRECTED BY THE ENGINEER.
23. OPTIONAL RAMP, WHEN REQUIRED, SHALL BE PAID FOR AS PART OF CONCRETE SIDEWALK RAMP.



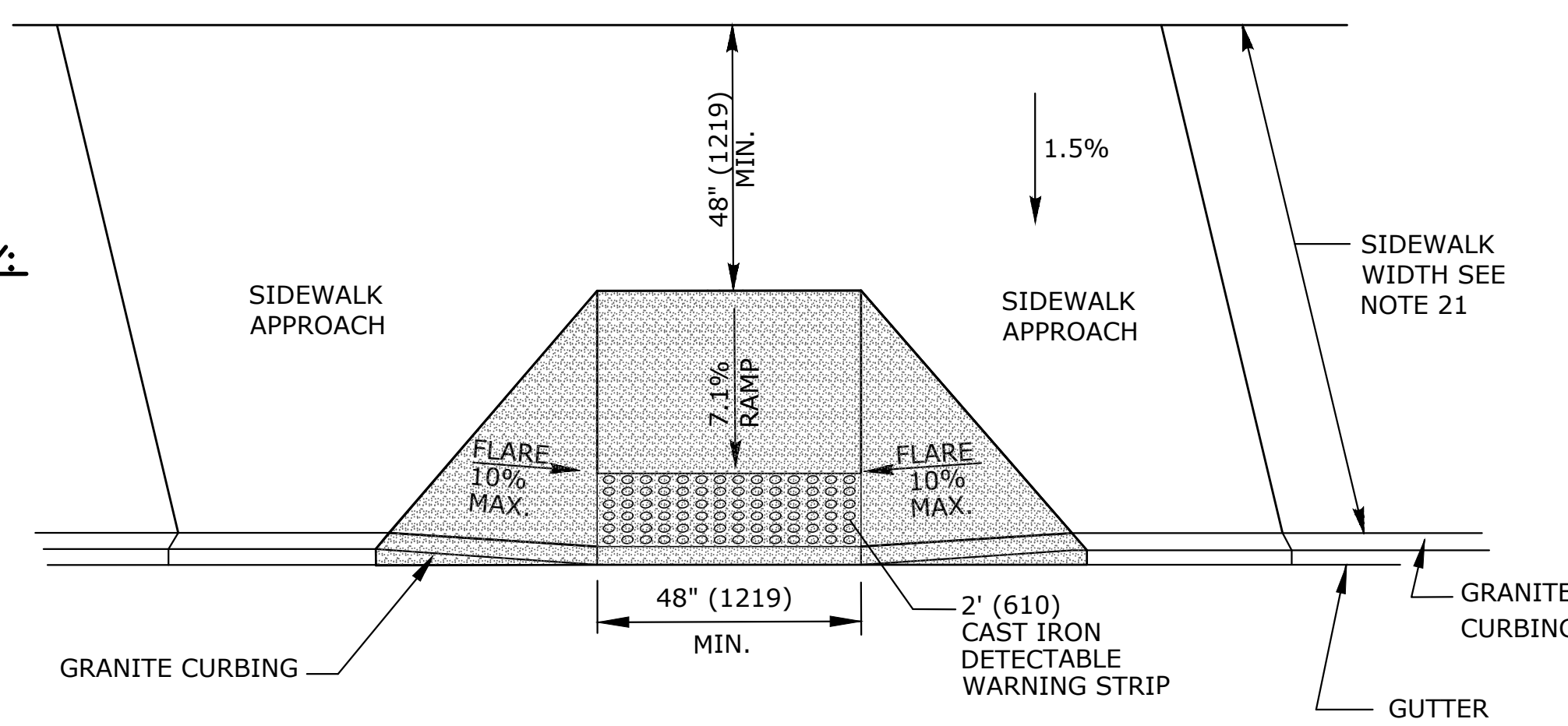
**BICYCLE RACK**

**NOTES:**

1. INSTALL BIKE RACKS ACCORDING TO MANUFACTURER'S SPECIFICATIONS
2. SEE SITE PLAN FOR LOCATION OR CONSULT OWNER.

**3 LOOP - 5 BIKE RACK AS MANUFACTURED BY:**

1. RELIANCE FOUNDRY  
UNIT 207, 6450 - 148 STREET, SURREY BC  
V3S 7G7, CANADA 1-877-789-3245  
INFO@RELIANCE-FOUNDRY.COM  
WWW.RELIANCE-FOUNDRY.COM  
MODEL: R-8239-FL-SS
2. AAA RIBBON BIKE RACK CO.  
BRANDIR INTERNATIONAL, INC.  
521 FIFTH AVE. 17TH FLOOR  
NEW YORK, NY 10175 USA 800-849-3488  
RIBBONRACK.COM  
MODEL: RB 05-S-S
3. OR APPROVED EQUAL

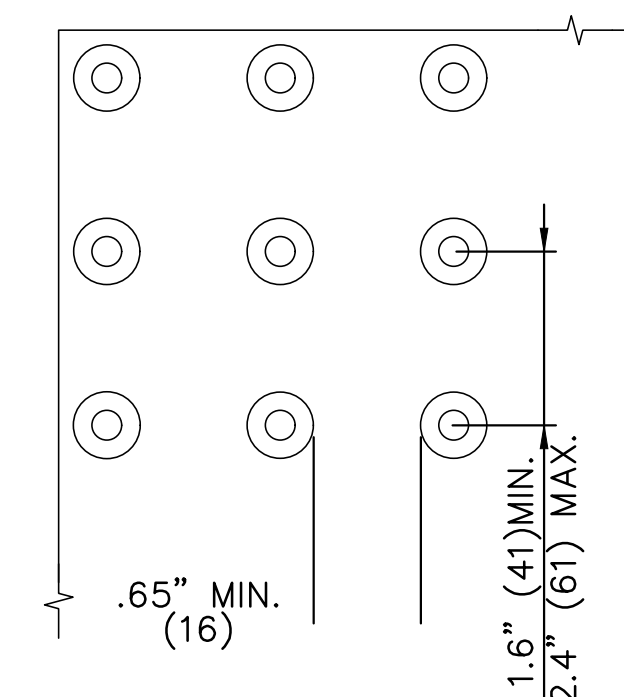


**PERPENDICULAR SIDEWALK RAMP**

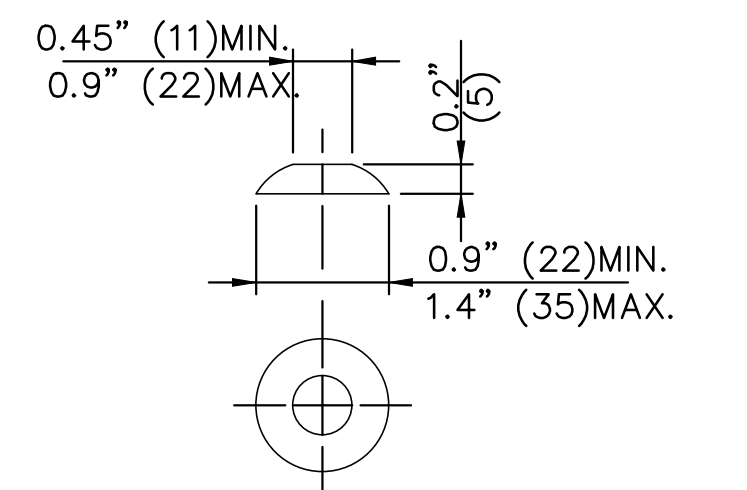
**W/48" (1219) MIN. BY PASS LANDING (TYPE 2)**

**NOTES:**

1. RAMPED MEDIANS SHALL HAVE A CURB RAMP AT EITHER END AND LEVEL LANDING A MINIMUM OF 5' x 5' (1.5m x 1.5m) IN BETWEEN. CUT-THROUGH MEDIANS SHALL BE A MINIMUM OF 6' (1.8m) LONG AND 5' (1.5m) WIDE. FOR ALL MEDIANS, CUT-THROUGH OR RAMPED, A 2' (610) STRIP OF DETECTABLE WARNINGS SHALL BE INSTALLED AT THE ENTRANCE AND EXIT.
2. SEE GENERAL NOTES ON ABOVE.



**DOMES SPACING**



**DOMES SECTION**

**STANDARD DOME ON DETECTABLE WARNING TILES**

**BROOKFIELD STREETSCAPE PHASE II  
ROUTE 202 (FEDERAL ROAD)  
BROOKFIELD, CONNECTICUT**

**FREEMAN COMPANIES**  
DBE | DAS | MBE | GNASDC CERTIFIED  
CIVIL | GEOTECHNICAL | SURVEY | ENVIRONMENTAL  
FREEMAN COMPANIES, LLC  
36 JOHN STREET  
HARTFORD, CT 06106  
WWW.FREEMANCS.COM  
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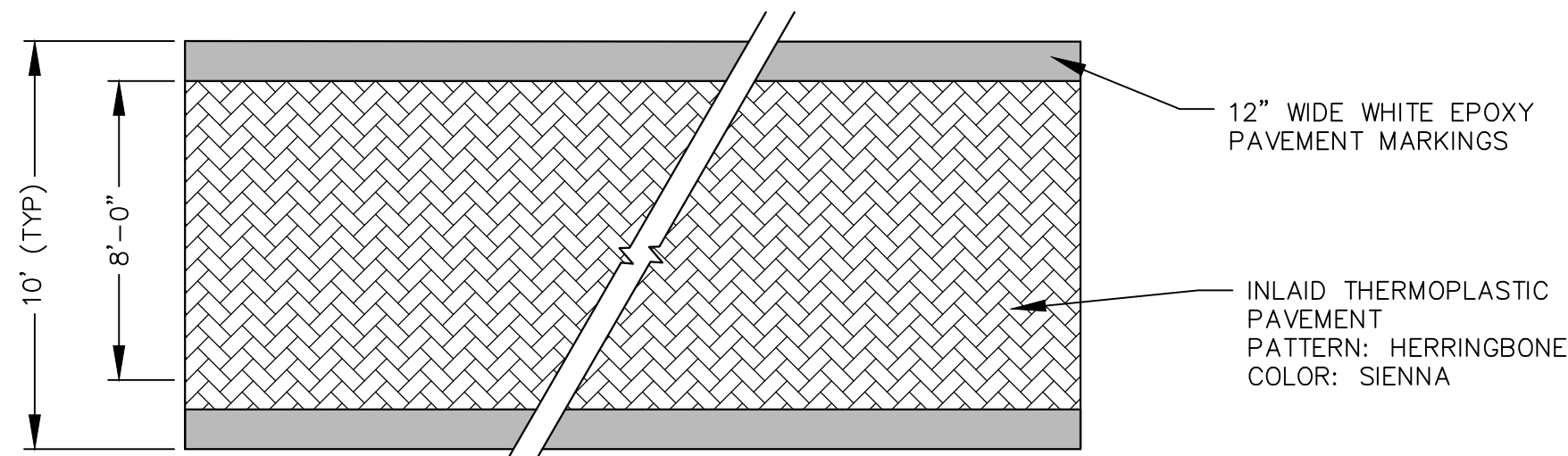
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TOWN OF BROOKFIELD  
100 POCONO ROAD  
BROOKFIELD,  
CONNECTICUT 06804  
OWNER FOR  
TOWN OF BROOKFIELD  
100 POCONO ROAD  
BROOKFIELD,  
CONNECTICUT 06804

11/11/2017, 10:11:11 AM  
11/11/2017, 10:11:11 AM  
NO. 23422

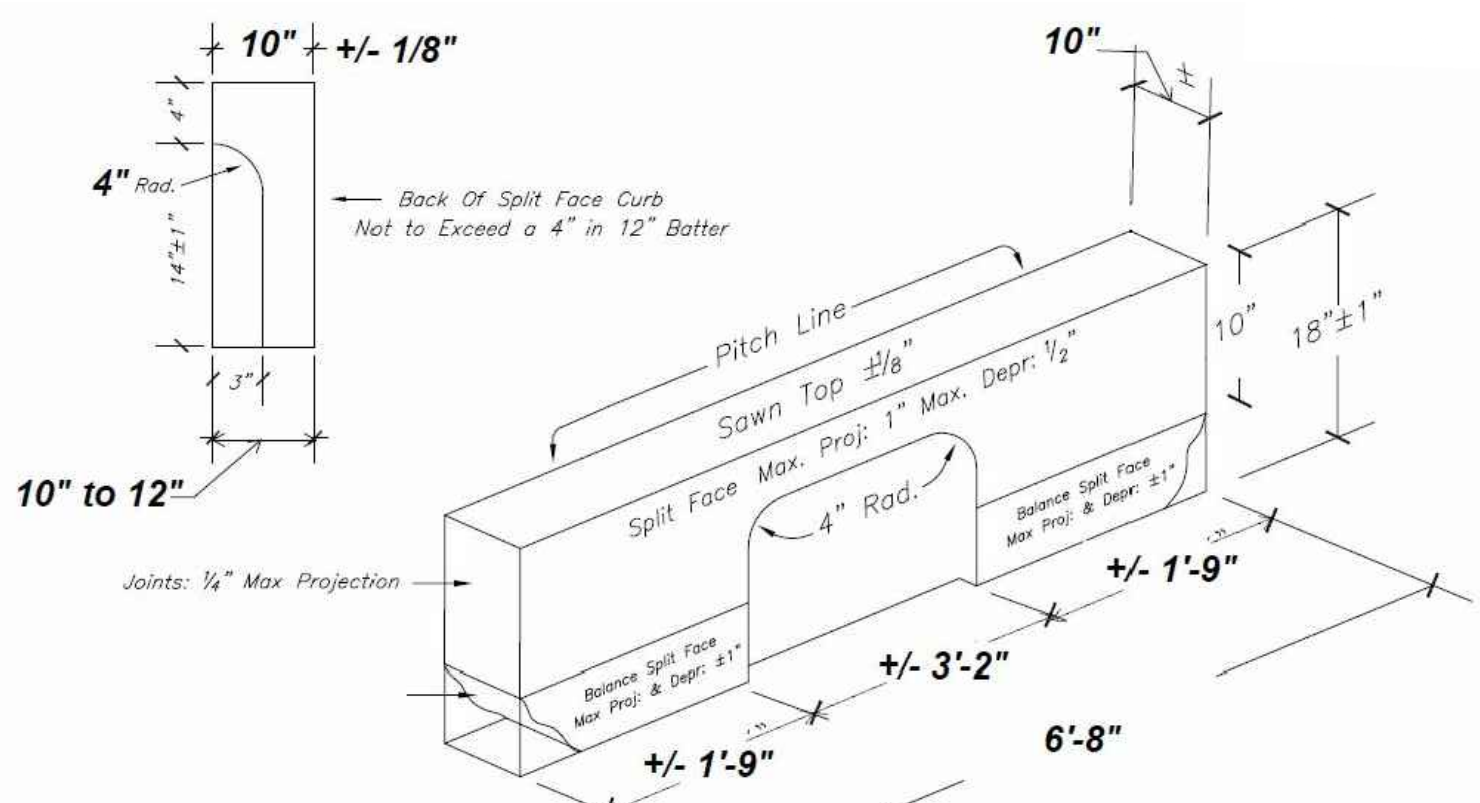
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APPROVED:  
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PROJECT NO.: 2017-0605  
DATE: 06/13/2018  
FILE: HW\_MST\_2017\_0605\_MDS-1

TITLE:  
MISCELLANEOUS  
DETAILS  
SHEET NUMBER:  
MDS-1.A2

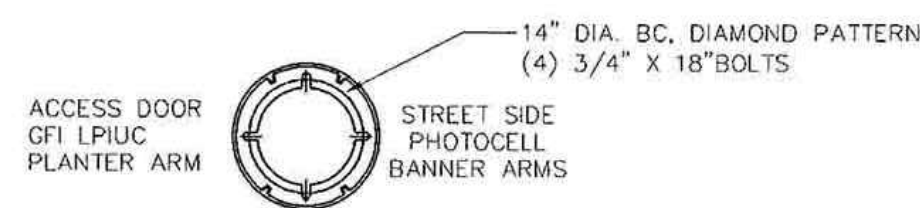
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1	05/01/19	MISCELLANEOUS DETAIL REVISED
REVISIONS		



**INLAID THERMOPLASTIC CROSSWALK**



**GRANITE CURB CATCH BASIN INLET**



FDRB OUTPUT SETTINGS 100% OR ADVISE

LED LIGHT SOURCE

CLEAR SEEDED ACRYLIC LENS

DECORATIVE FROSTED CHIMNEY WITH SOLID BRASS HOLDER

DRIVER COMPARTMENT

PHOTOCELL

LOW PROFILE DUPLEX GF1 RECEPTACLE WITH IN USE COVER

THE 7/8" DIA BANNER ARMS ARE 37" APART FROM THE TOP OF THE UPPER ARM, TO THE BOTTOM OF THE LOWER ARM.

BANNER ARMS SET FOR 16" X 36" BANNERS

BANNERS BY OTHERS

SINGLE STEPPED PLANTER ARM

5"-4" DIA. TAPERED POLE 188 WALL THICKNESS 6063-T6 STRUCTURAL GRADE ALUMINUM

POLE WELDED FOR SINGLE UNIT CONSTRUCTION

NOTE:

1. SEE SPECIFICATIONS FOR ADDITIONAL LIGHT REQUIREMENTS
2. SEE LANDSCAPE AND LIGHTING PLAN FOR LIGHT LOCATIONS

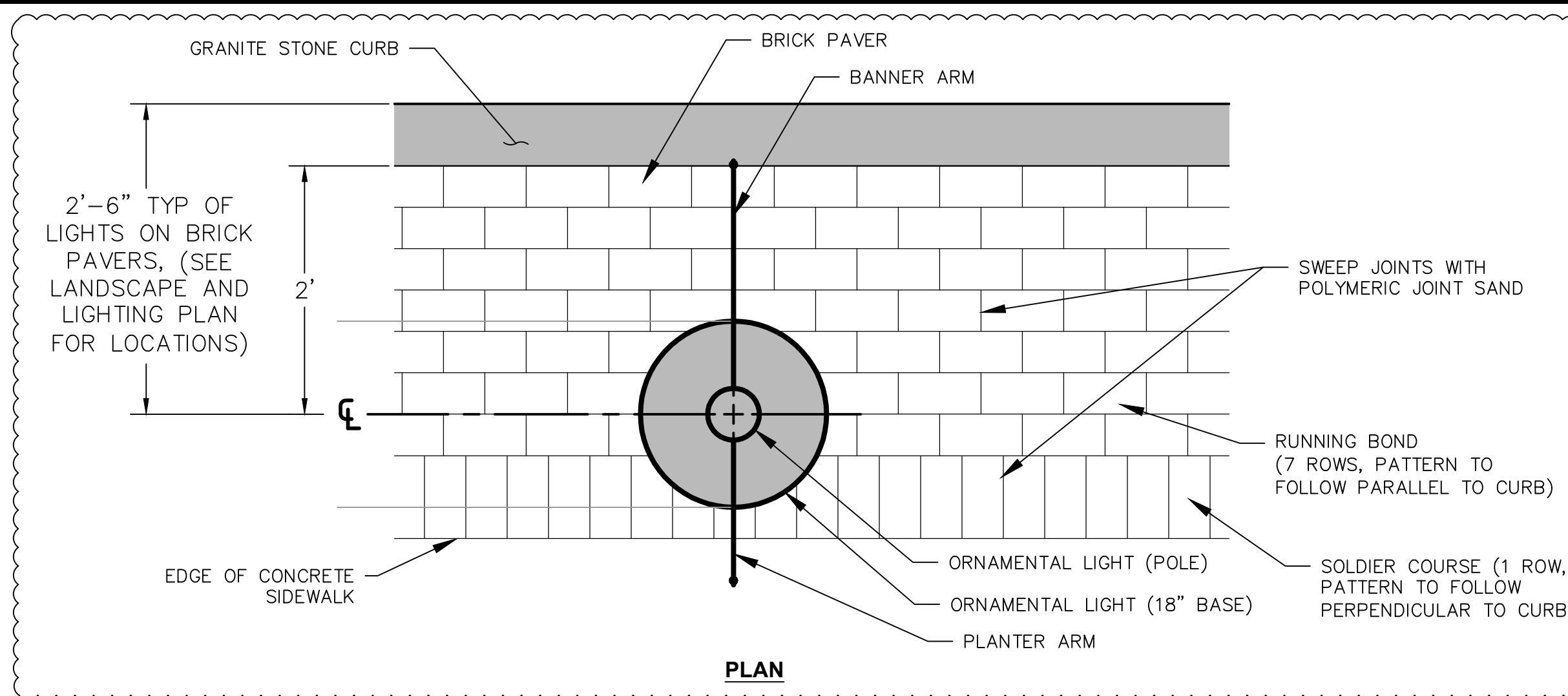
ACCESS DOOR

18" DIA. BASE, 1" FLOOR THICKNESS

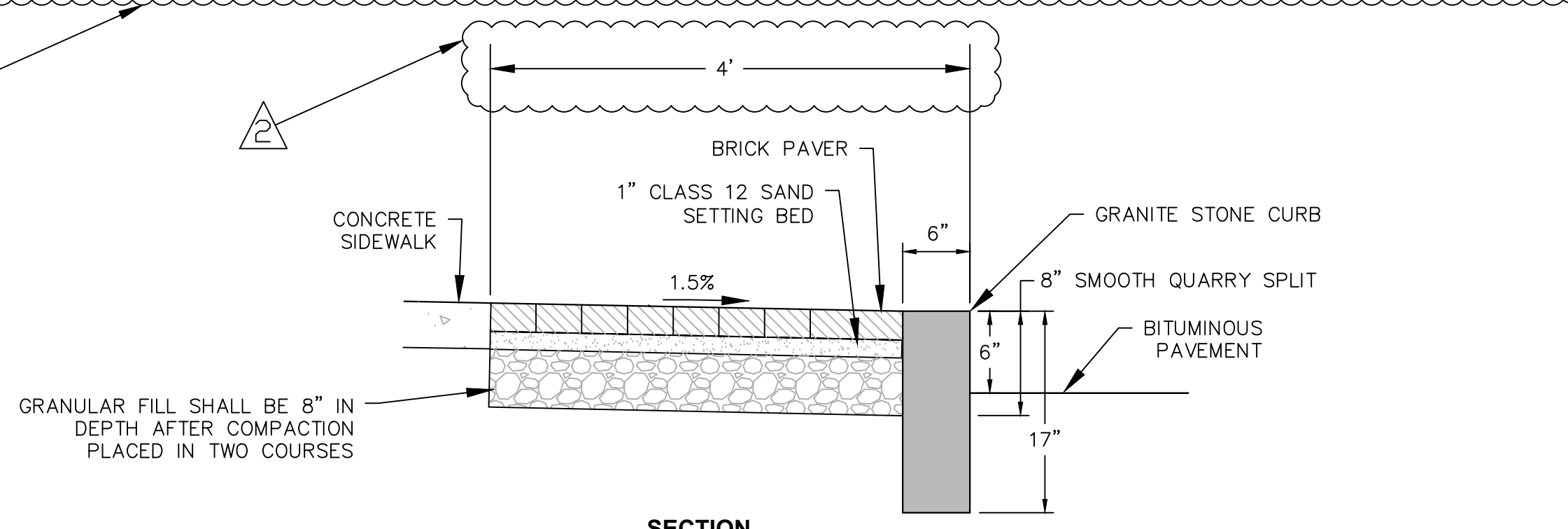
4 ANCHOR BOLTS

SEE LIGHT POLE BASE DETAIL IN THIS PAGE

**ORNAMENTAL LIGHT**

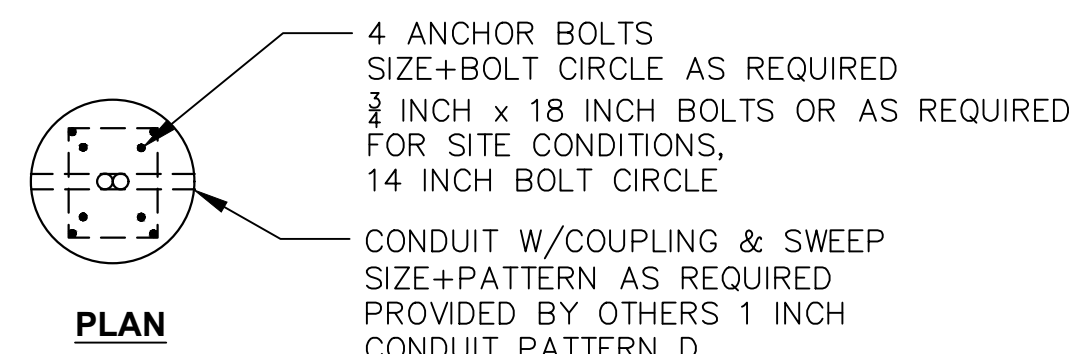


PLAN

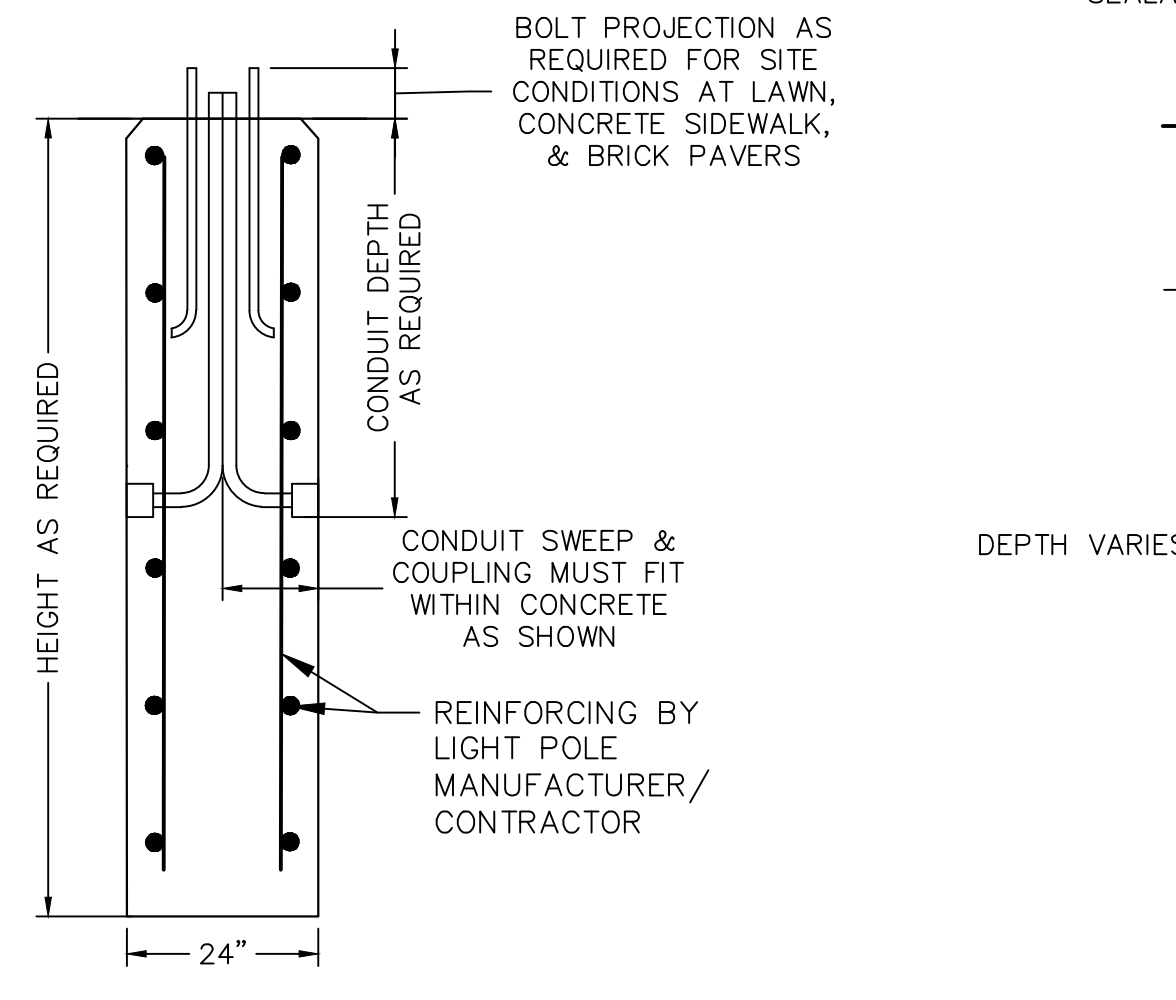


SECTION

**BRICK PAVERS**



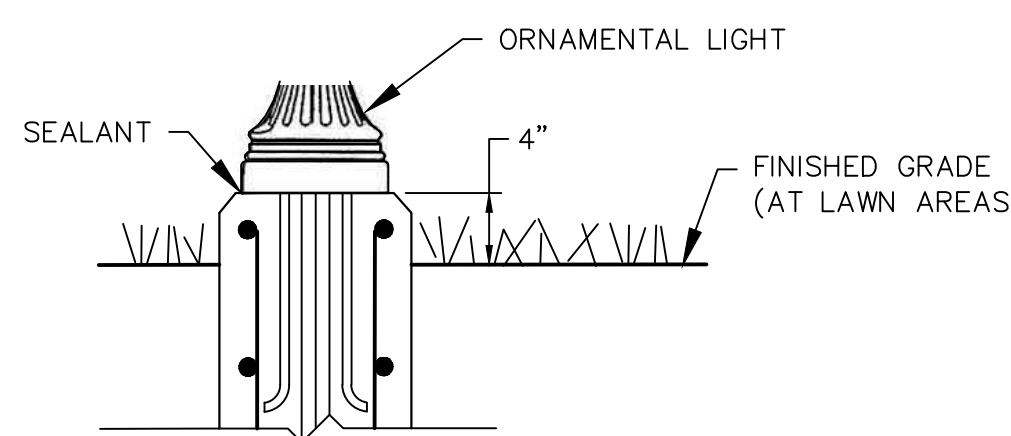
PLAN



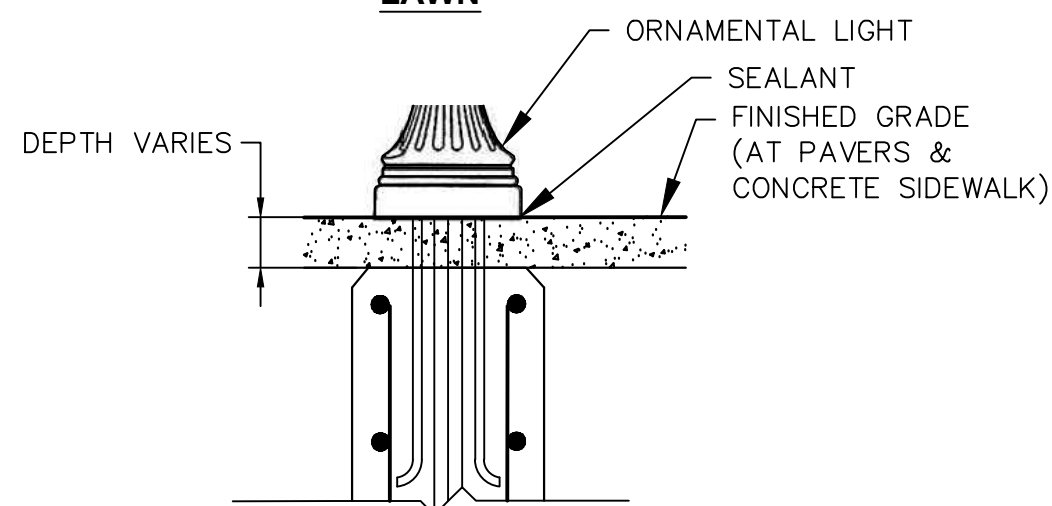
TYP SECTION

NOTE:  
FOUNDATION DESIGN TO BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH CTDOT STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION, FORM 817, DATED 2016; SUPPLEMENTAL SPECIFICATIONS, DATED JANUARY 2018; AND SPECIAL PROVISIONS.

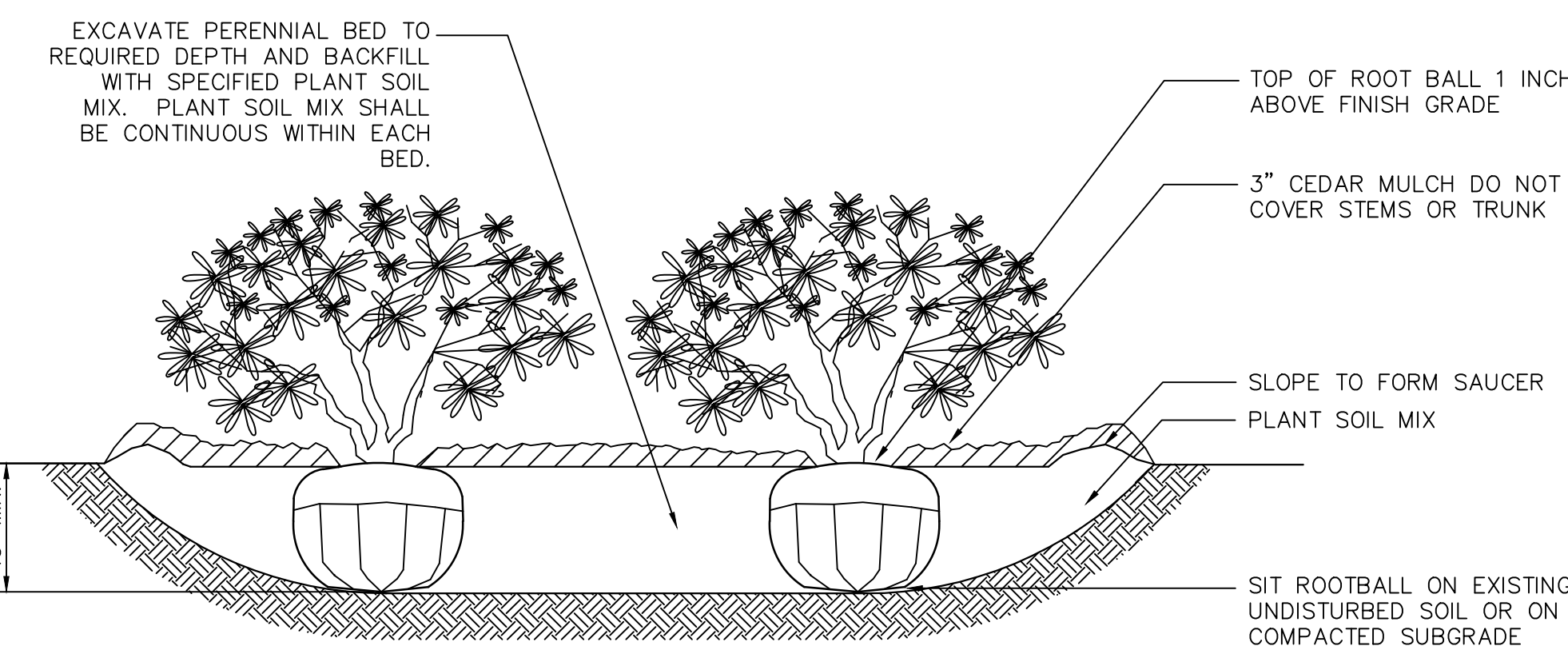
**LIGHT POLE BASE**



SECTION AT LAWN



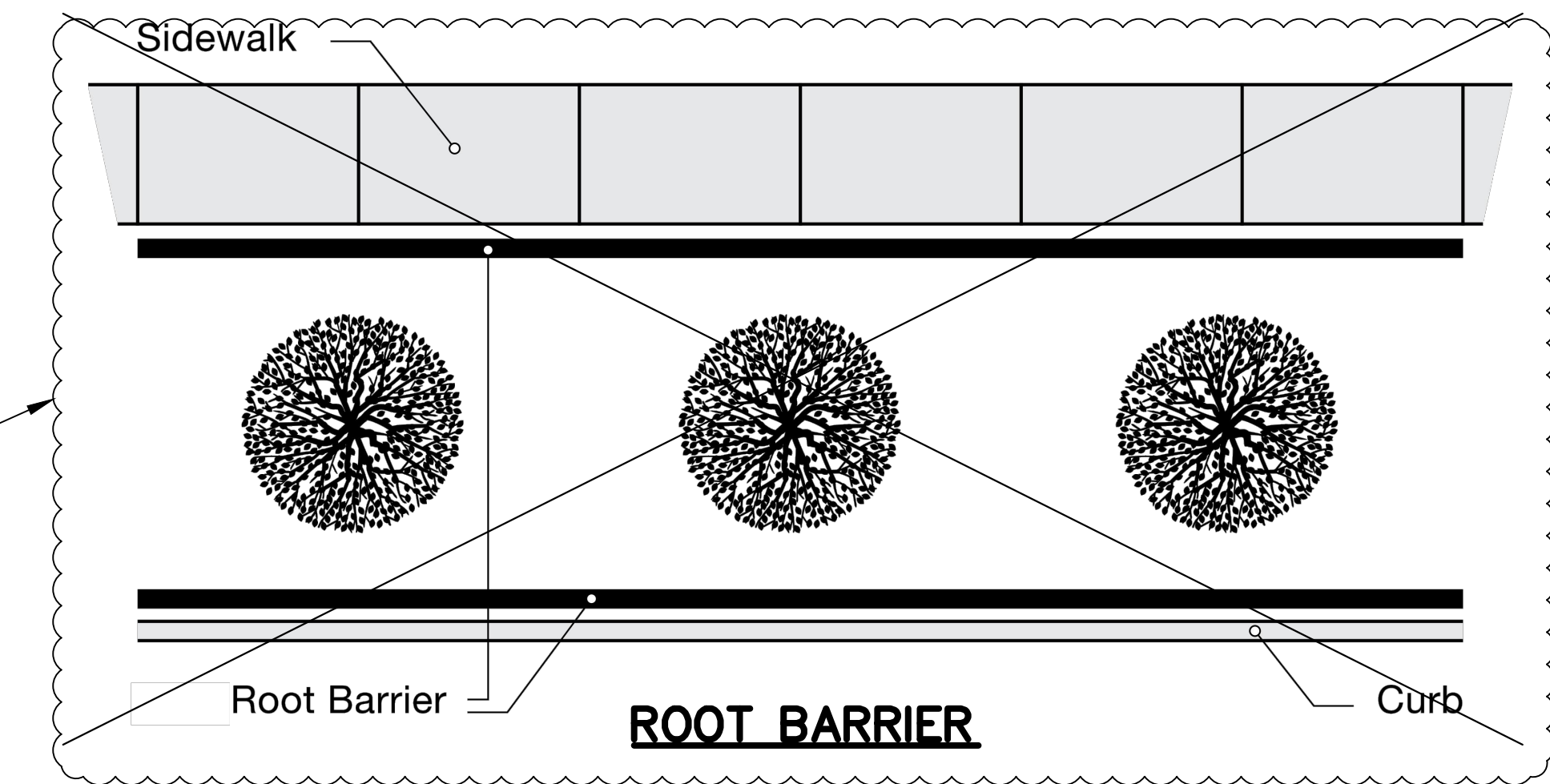
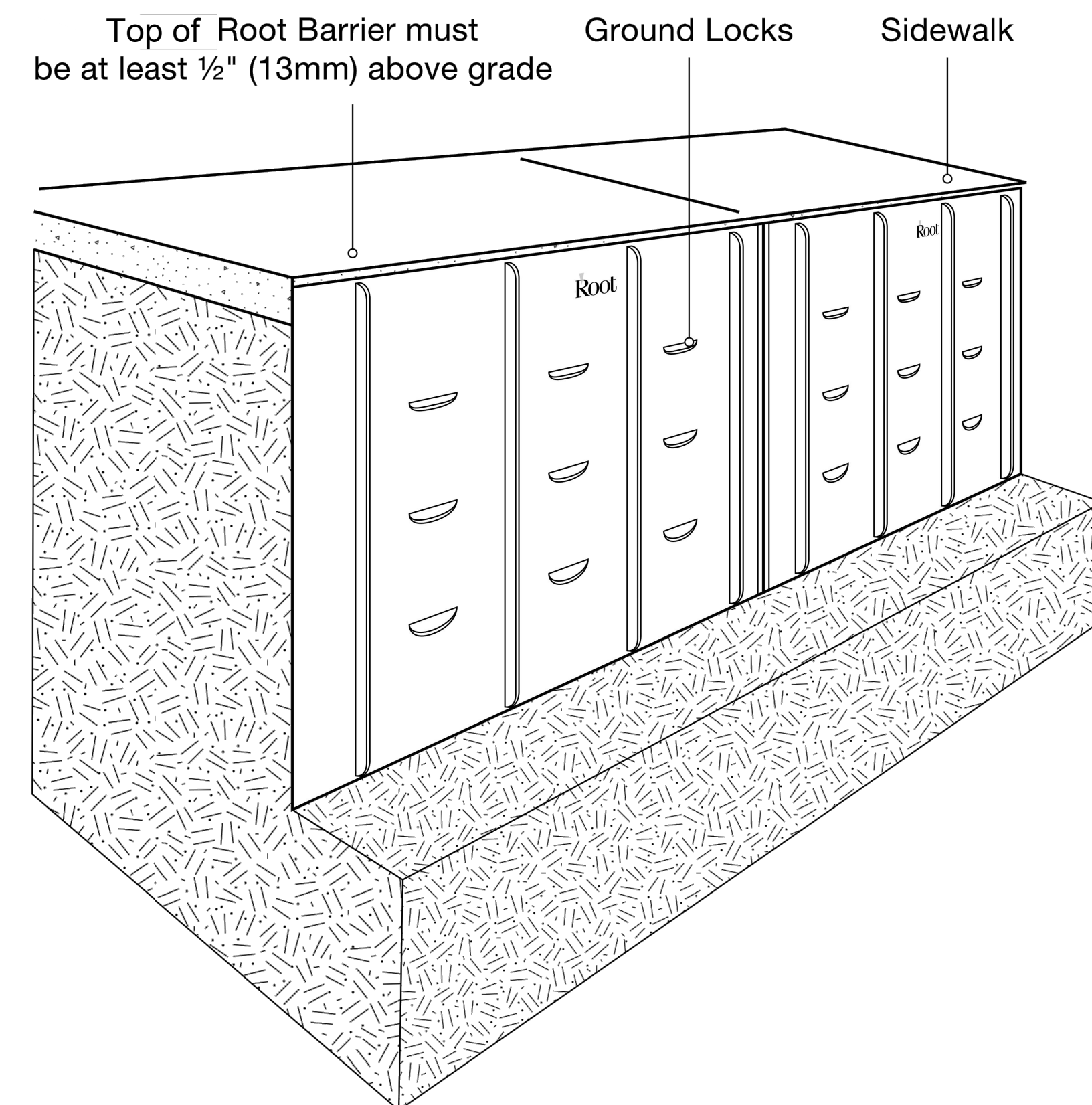
SECTION AT PAVERS OR CONCRETE SIDEWALK



NOTE:

1. LOOSEN ROOTS AT THE OUTER EDGE OF ROOTBALL OF CONTAINER GROWN PERENNIALS.

**PLANTING BED**



**ROOT BARRIER**

**REVISED BY ADDENDUM NO. 1**

Freeman Companies, LLC - R:\2017\2017-0605\_Brookfield Streetscape Phase 2\DWG\HW\_MST\_2017\_0605\_MDS-2.dwg Apr 30, 2019-2:55pm Plotted By: plikhuri

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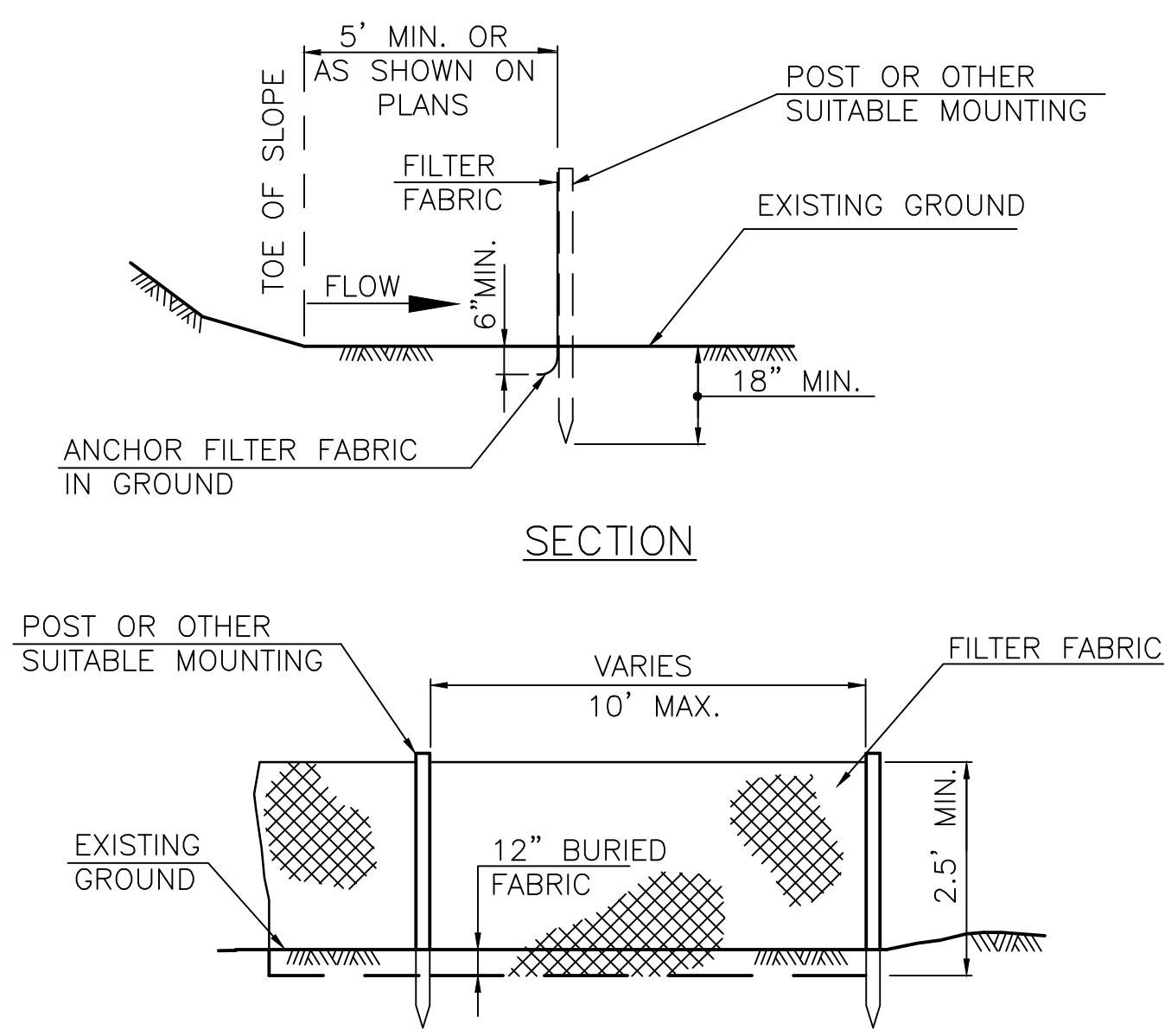
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**BROOKFIELD STREETScape Phase II  
ROUTE 202 (FEDERAL ROAD)  
BROOKFIELD, CONNECTICUT**

DESIGNED:	YL	TITLE:	MISCELLANEOUS DETAILS
DRAFTED:	KM	PROJECT NO.:	2017-0605
CHECKED:	RG	DATE:	04/17/2019
APPROVED:		FILE:	HW_MST_2017_0605_MDS-2
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NO. DATE	DESCRIPTION		
	REVISIONS		

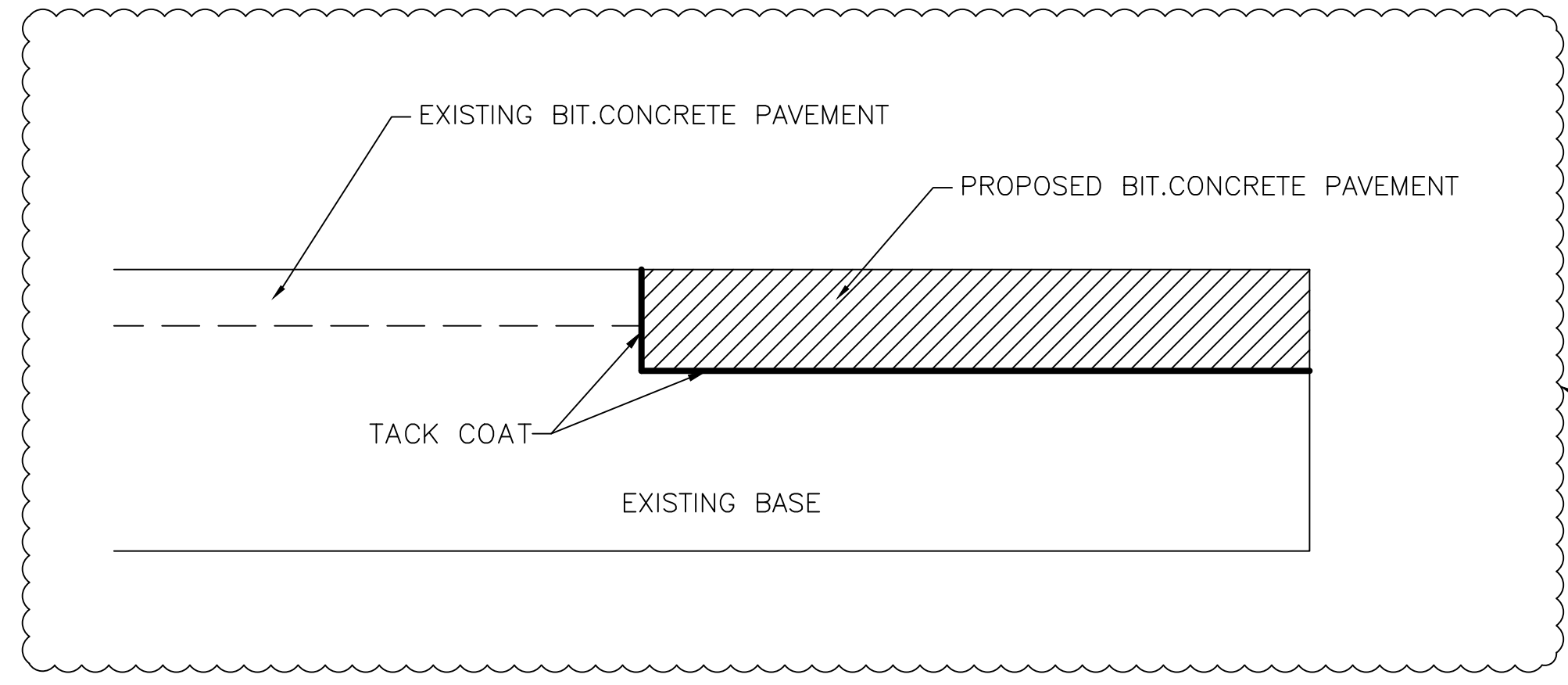
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MDS-2.A2



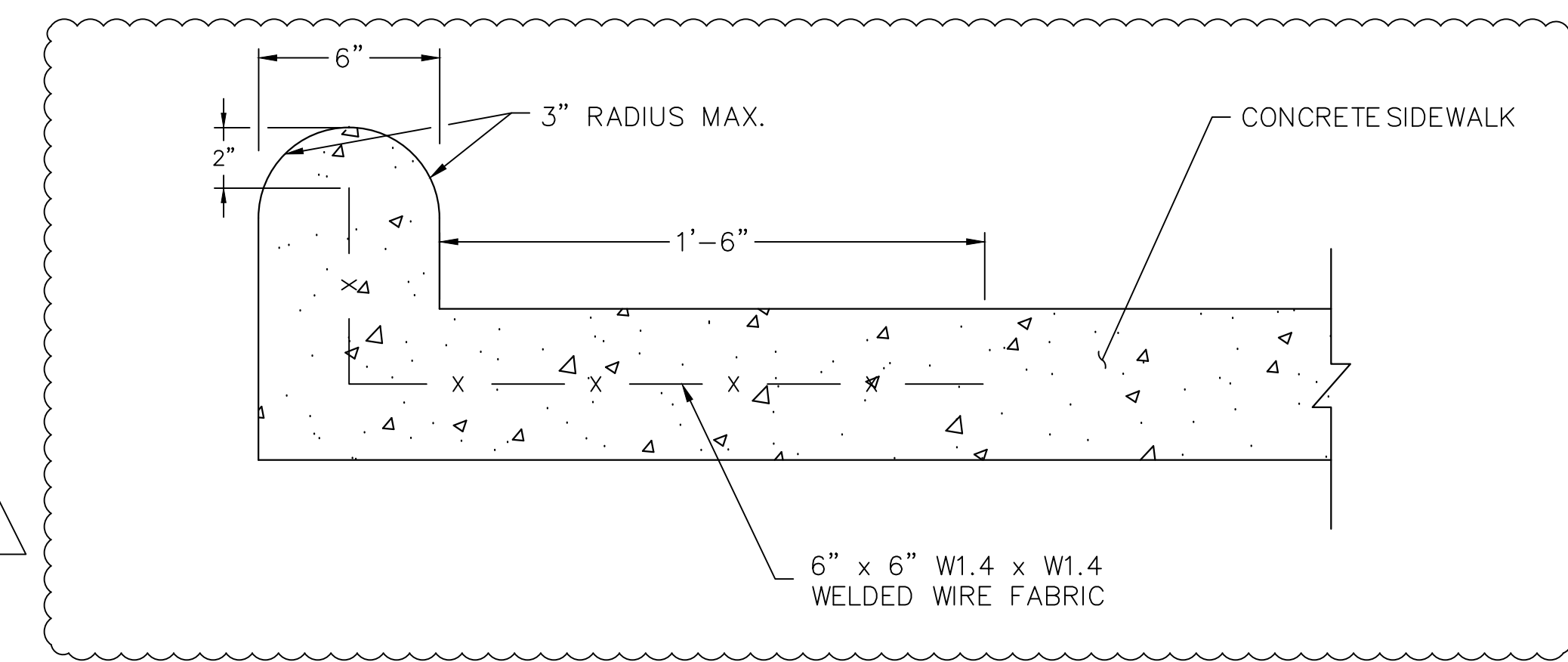


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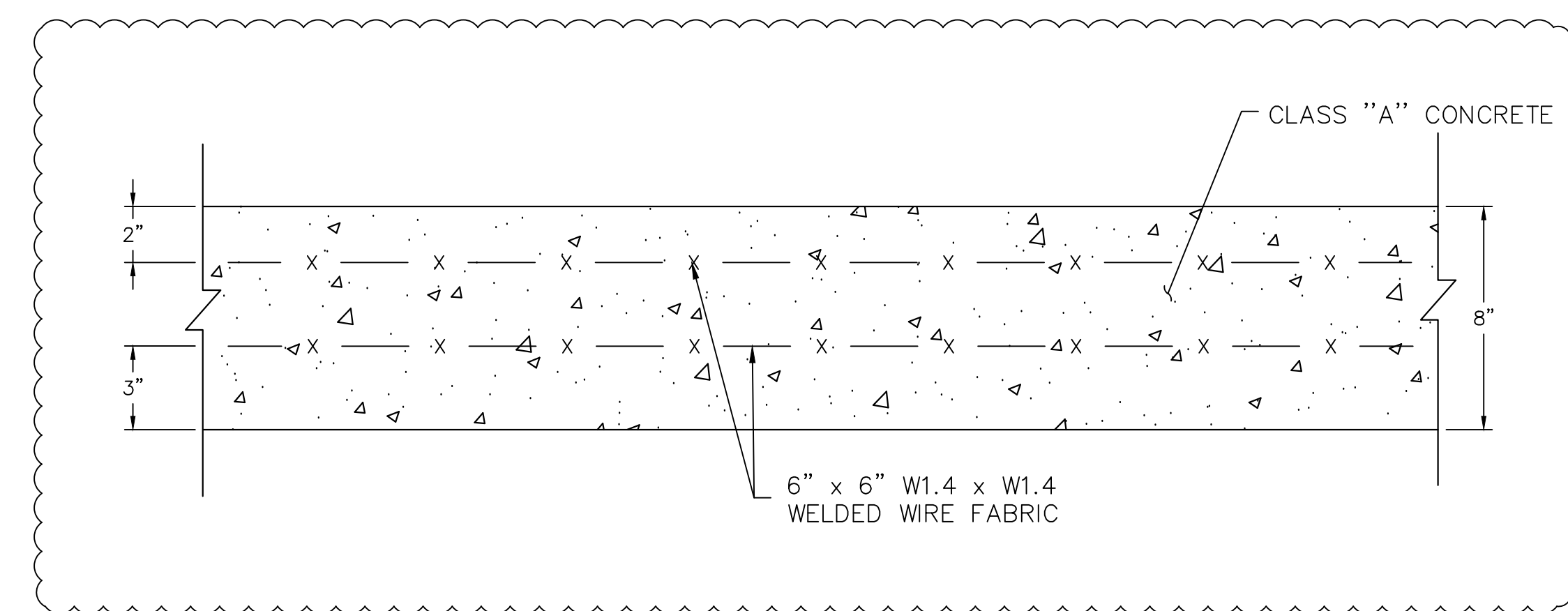
**ELEVATION**  
**SILT FENCE**  
N.T.S.



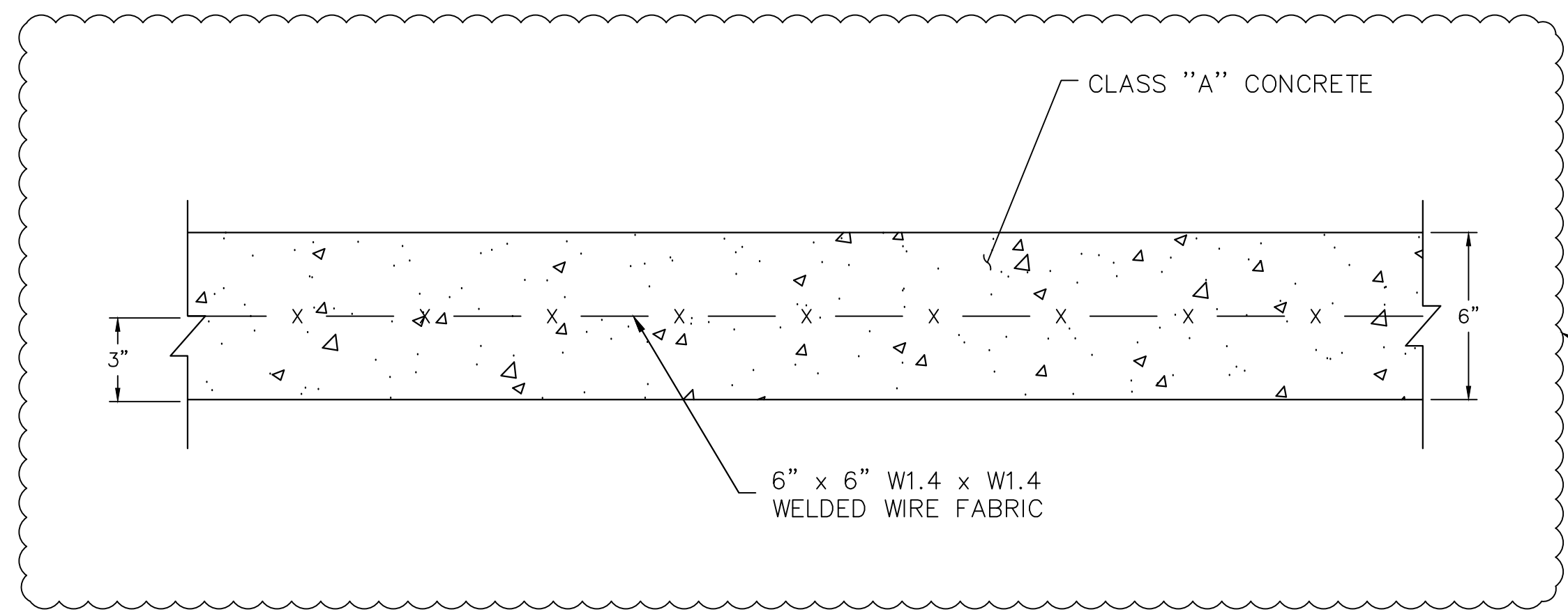
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N.T.S.



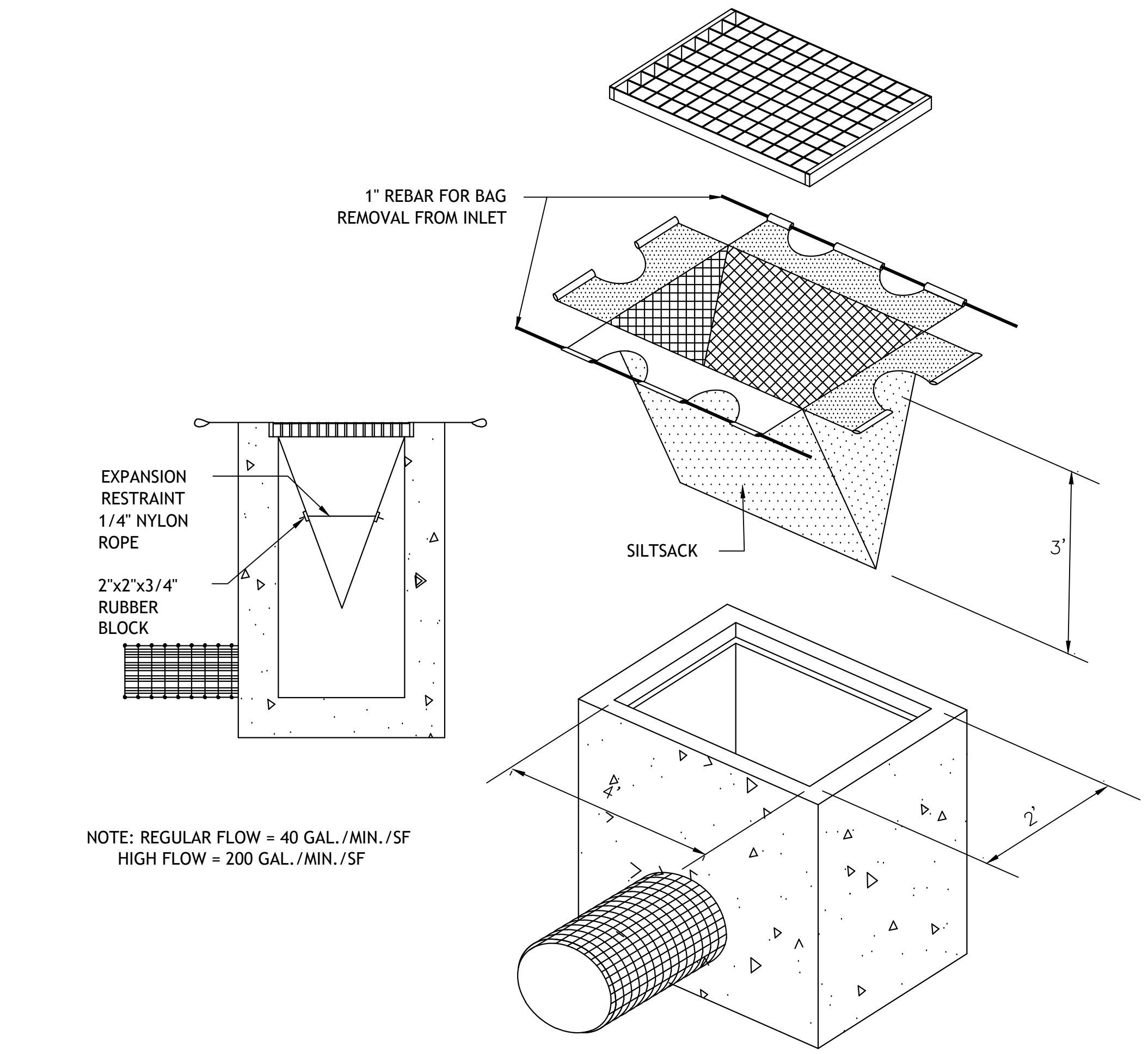
**MONOLITHIC CONCRETE CURB AND SIDEWALK**  
N.T.S. STA. 18+82± (L) TO STA. 19+82± (L)



**4'x8' BUS SHELTER CONCRETE PAD**  
N.T.S.



**4'x4' CLUSTER BOX UNITS CONCRETE PAD**  
N.T.S.



**SILT SACK**  
N.T.S.

NOTE: REGULAR FLOW = 40 GAL./MIN./SF  
HIGH FLOW = 200 GAL./MIN./SF

**REVISED BY ADDENDUM NO. 2**

**BROOKFIELD STREETScape PHASE II  
ROUTE 202 (FEDERAL ROAD)  
BROOKFIELD, CONNECTICUT**

**FREEMAN COMPANIES**  
36 JOHN STREET  
HARTFORD, CT 06106  
WWW.FREEMANCO.COM  
TOLL FREE (800)604-5141  
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BROOKFIELD,  
CONNECTICUT 06804

OWNER FOR  
TOWN OF BROOKFIELD  
100 POCONO ROAD  
BROOKFIELD,  
CONNECTICUT 06804

NO. 23422

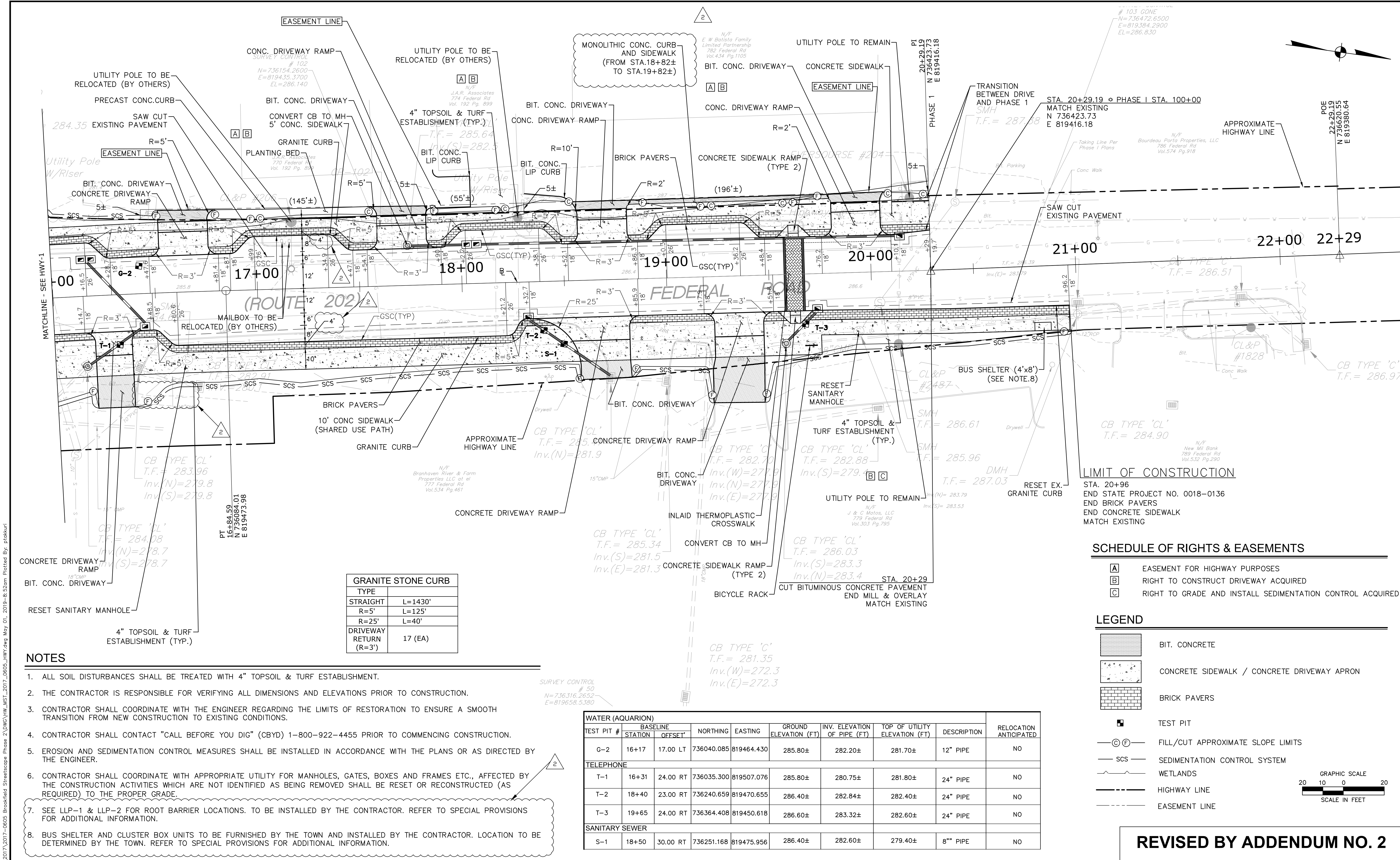
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FILE:	HWL_MST_2017_0605_MDS-2	
NO.	DATE	DESCRIPTION
		REVISIONS

TITLE:  
**MISCELLANEOUS  
DETAILS**

SHEET NUMBER:  
**MDS-3.A2**

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GRANITE STONE CURB	
TYPE	
STRAIGHT	L=1430'
R=5'	L=125'
R=25'	L=40'
DRIVEWAY RETURN (R=3')	17 (EA)

- NOTES**
- ALL SOIL DISTURBANCES SHALL BE TREATED WITH 4" TOPSOIL & TURF ESTABLISHMENT.
  - THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
  - CONTRACTOR SHALL COORDINATE WITH THE ENGINEER REGARDING THE LIMITS OF RESTORATION TO ENSURE A SMOOTH TRANSITION FROM NEW CONSTRUCTION TO EXISTING CONDITIONS.
  - CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" (CBYD) 1-800-922-4455 PRIOR TO COMMENCING CONSTRUCTION.
  - EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS OR AS DIRECTED BY THE ENGINEER.
  - CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY FOR MANHOLES, GATES, BOXES AND FRAMES ETC., AFFECTED BY THE CONSTRUCTION ACTIVITIES WHICH ARE NOT IDENTIFIED AS BEING REMOVED SHALL BE RESET OR RECONSTRUCTED (AS REQUIRED) TO THE PROPER GRADE.
  - SEE LLP-1 & LLP-2 FOR ROOT BARRIER LOCATIONS. TO BE INSTALLED BY THE CONTRACTOR. REFER TO SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
  - BUS SHELTER AND CLUSTER BOX UNITS TO BE FURNISHED BY THE TOWN AND INSTALLED BY THE CONTRACTOR. LOCATION TO BE DETERMINED BY THE TOWN. REFER TO SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

WATER (AQUARIAN)									
TEST PIT #	STATION	OFFSET	NORTHING	EASTING	GROUND ELEVATION (FT)	INV. ELEVATION OF PIPE (FT)	TOP OF UTILITY ELEVATION (FT)	DESCRIPTION	RELOCATION ANTICIPATED
G-2	16+17	17.00 LT	736040.085	819464.430	285.80±	282.20±	281.70±	12" PIPE	NO
TELEPHONE									
T-1	16+31	24.00 RT	736035.300	819507.076	285.80±	280.75±	281.80±	24" PIPE	NO
T-2	18+40	23.00 RT	736240.659	819470.655	286.40±	282.84±	282.40±	24" PIPE	NO
T-3	19+65	24.00 RT	736364.408	819450.618	286.60±	283.32±	282.60±	24" PIPE	NO
SANITARY SEWER									
S-1	18+50	30.00 RT	736251.168	819475.956	286.40±	282.60±	279.40±	8" PIPE	NO

**SCHEDULE OF RIGHTS & EASEMENTS**

A	EASEMENT FOR HIGHWAY PURPOSES
B	RIGHT TO CONSTRUCT DRIVEWAY ACQUIRED
C	RIGHT TO GRADE AND INSTALL SEDIMENTATION CONTROL ACQUIRED

**LEGEND**

[Pattern]	BIT. CONCRETE
[Pattern]	CONCRETE SIDEWALK / CONCRETE DRIVEWAY APRON
[Pattern]	BRICK PAVERS
[Symbol]	TEST PIT
[Symbol]	FILL/CUT APPROXIMATE SLOPE LIMITS
[Symbol]	SEDIMENTATION CONTROL SYSTEM
[Symbol]	WETLANDS
[Symbol]	HIGHWAY LINE
[Symbol]	EASEMENT LINE

GRAPHIC SCALE: 20 10 0 20  
SCALE IN FEET

## BROOKFIELD STREETScape PHASE II ROUTE 202 (FEDERAL ROAD) BROOKFIELD, CONNECTICUT

**FREEMAN COMPANIES**  
DBE | DAS | MBE | GNMSDC CERTIFIED  
CIVIL | GEOTECHNICAL | SURVEY | ENVIRONMENTAL  
FREEMAN COMPANIES, LLC  
34 JOHN STREET  
HARTFORD, CT 06106  
WWW.FREEMANCOMPANIES.COM  
860.531.9500  
TOLL FREE: (877)604-5141  
FAX: (860)986-7163  
ELEVATE YOUR EXPECTATIONS

PREPARED FOR:  
TOWN OF BROOKFIELD  
100 POCOCK ROAD  
BROOKFIELD, CONNECTICUT 06804

OWNER FOR:  
TOWN OF BROOKFIELD  
100 POCOCK ROAD  
BROOKFIELD, CONNECTICUT 06804

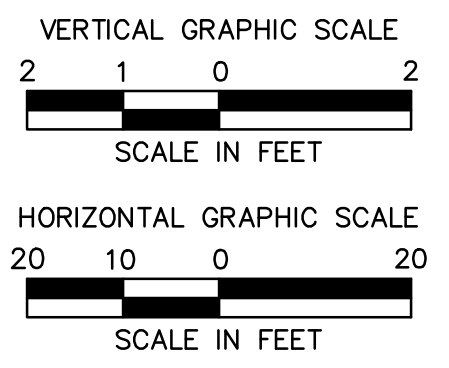
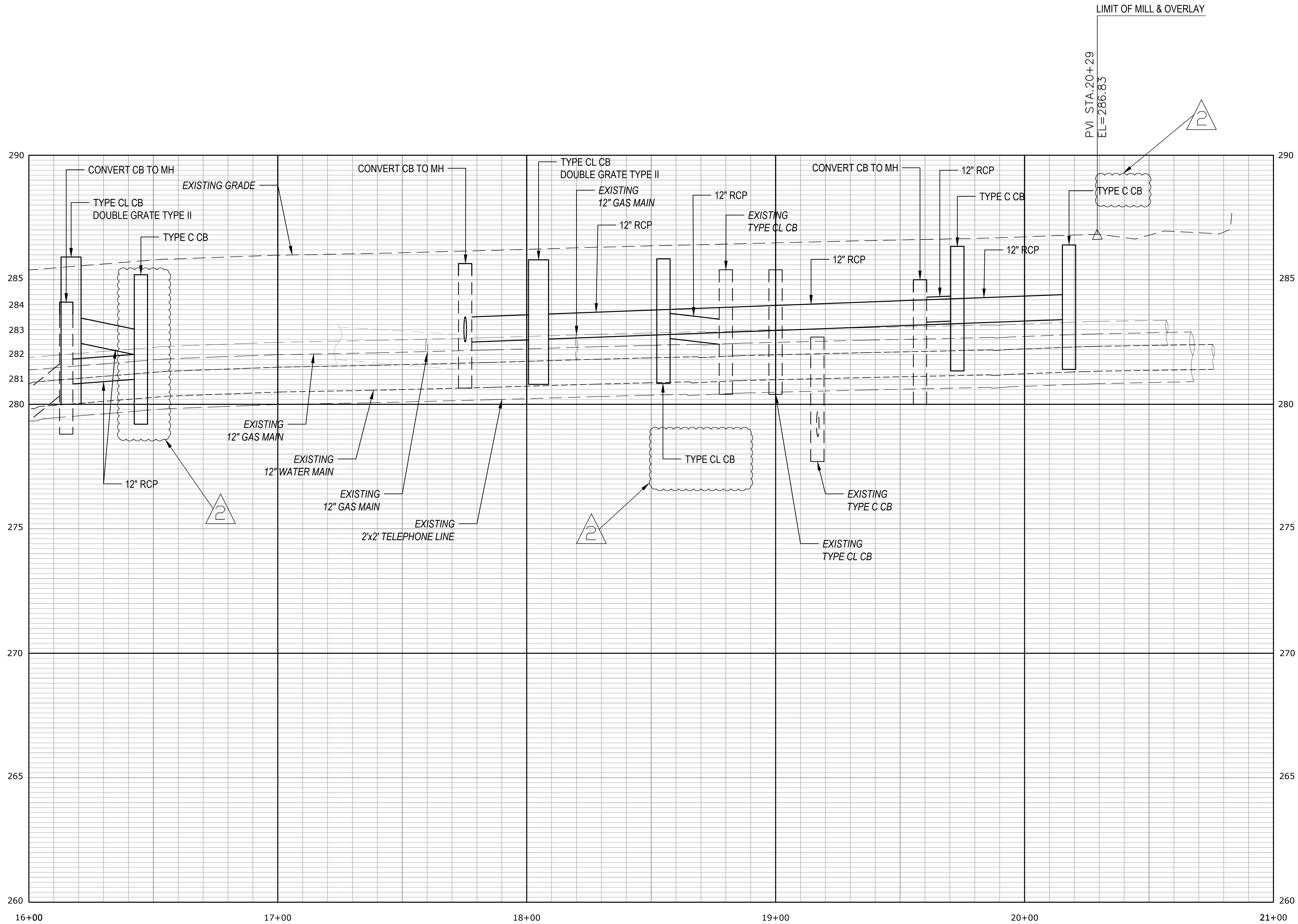
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APPROVED: \_\_\_\_\_  
SCALE: AS NOTED  
PROJECT NO.: 2017-0605  
DATE: 04/17/2019  
FILE: HWL\_MST\_2017\_0605\_HWY

NO. DATE DESCRIPTION REVISIONS

TITLE: ROADWAY PLAN  
SHEET NUMBER: HWY-2.A2

Freeman Companies, LLC - R:\2017\2017-0605\_Brookfield Streetscape Phase 2\DWG\HWY\_MST\_2017\_0605\_HWY.dwg, May 01, 2018 - 8:52am, Plotted By: ptkurki

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**BROOKFIELD STREETScape PHASE II  
ROUTE 202 (FEDERAL ROAD)  
BROOKFIELD, CONNECTICUT**

**FREEMAN COMPANIES**  
36 JOHN STREET  
HARTFORD, CT 06106  
WWW.FREEMANCO.COM  
TOLL FREE: (800)604-5141  
FAX: (860)966-7151  
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TOWN OF BROOKFIELD  
100 POCONO ROAD  
BROOKFIELD,  
CONNECTICUT 06804

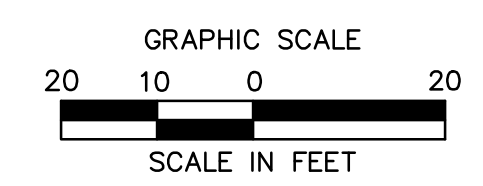
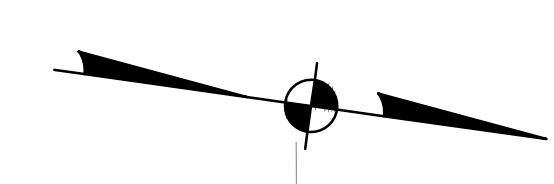
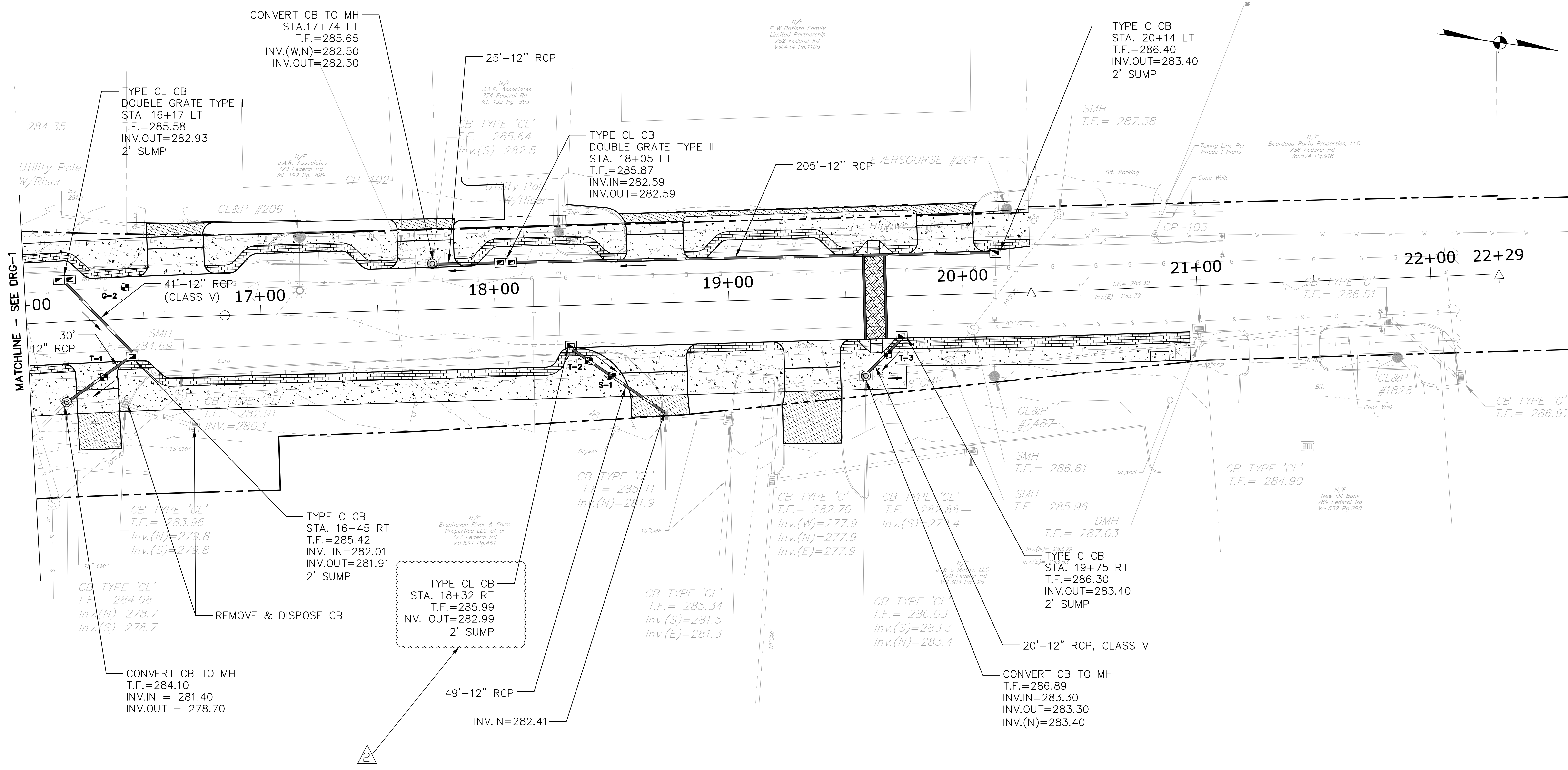
OWNER FOR  
TOWN OF BROOKFIELD  
100 POCONO ROAD  
BROOKFIELD,  
CONNECTICUT 06804

YUYANG LIN, PE, P102 NO. 23422

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DRAFTED:	MK	SHEET NUMBER:	PRO-2.A2						
CHECKED:	RG								
APPROVED:									
SCALE:	AS NOTED								
PROJECT NO.:	2017-0605								
DATE:	10/30/2018								
FILE:	HW_MST_2017_0605_PRO								
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NO.	DATE	DESCRIPTION							
1	05/01/19	CATCH BASIN TYPE REVISED							

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ROUTE 202 (FEDERAL ROAD)  
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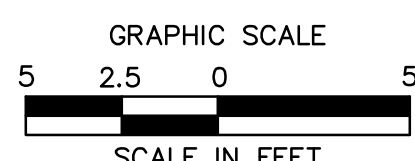
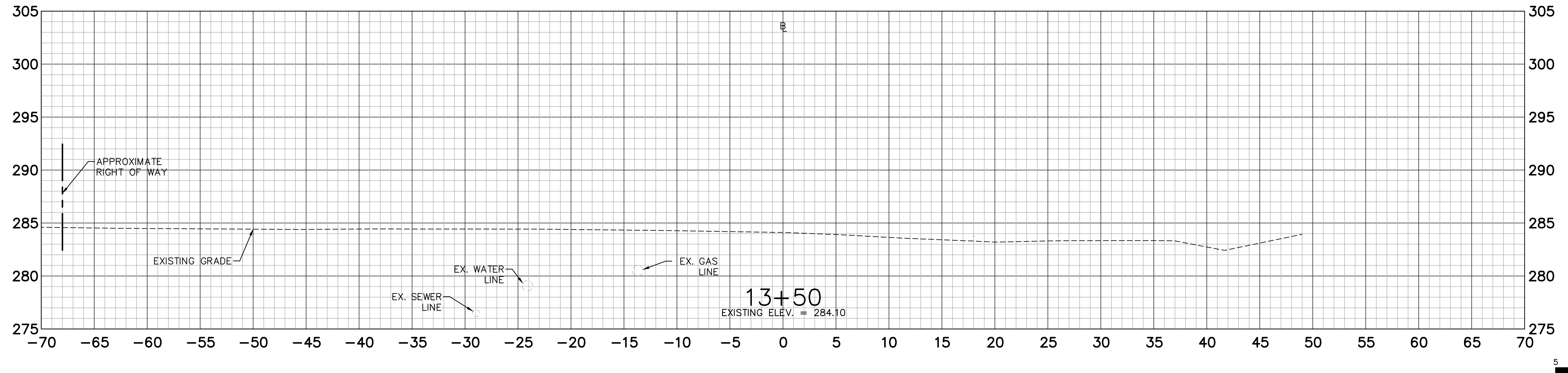
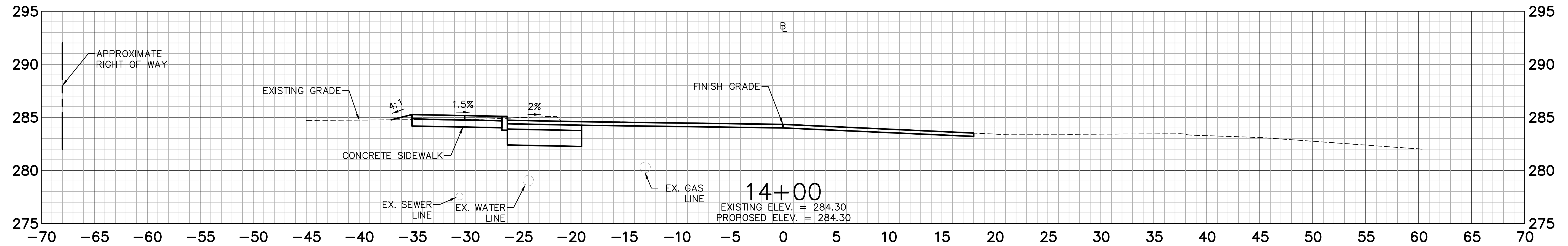
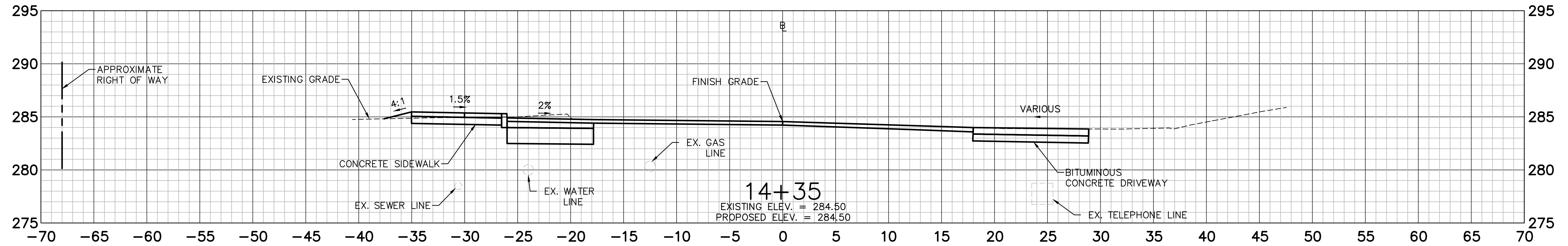
OWNER FOR  
TOWN OF BROOKFIELD  
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CONNECTICUT 06804

YUYANG LIN, PE, P102 NO. 23422

DESIGNED:	YL	TITLE:	DRAINAGE PLAN
DRAFTED:	PT		
CHECKED:	RG		
APPROVED:			
SCALE:	1" = 20'		
PROJECT NO.:	2017-0605		
DATE:	10/30/2018		
FILE:	HW_MST_2017_0605_DRN		
NO. DATE DESCRIPTION		SHEET NUMBER: DRG-2.A2	
REVISIONS			

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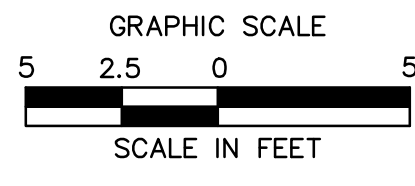
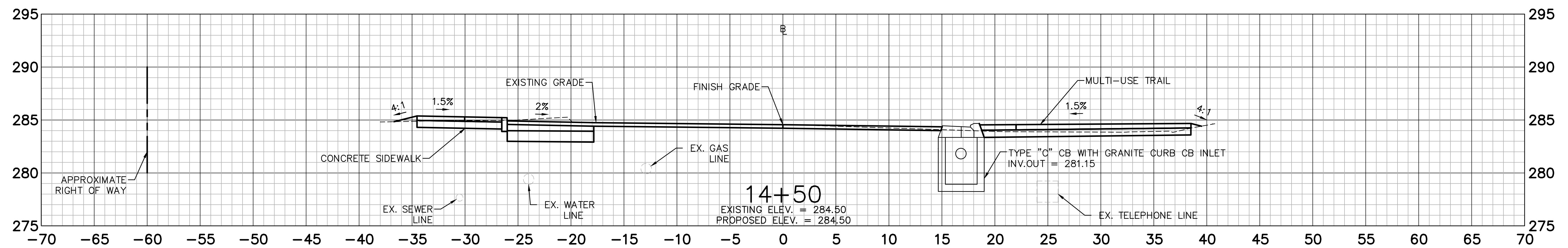
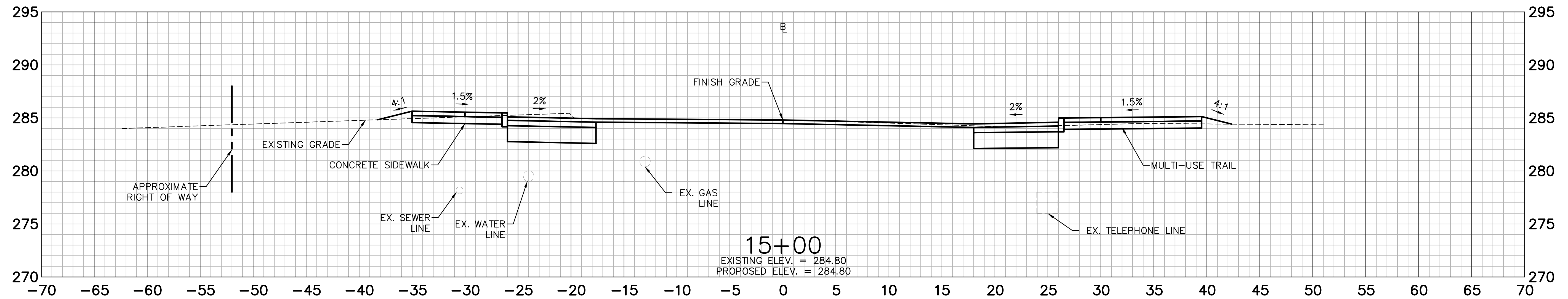
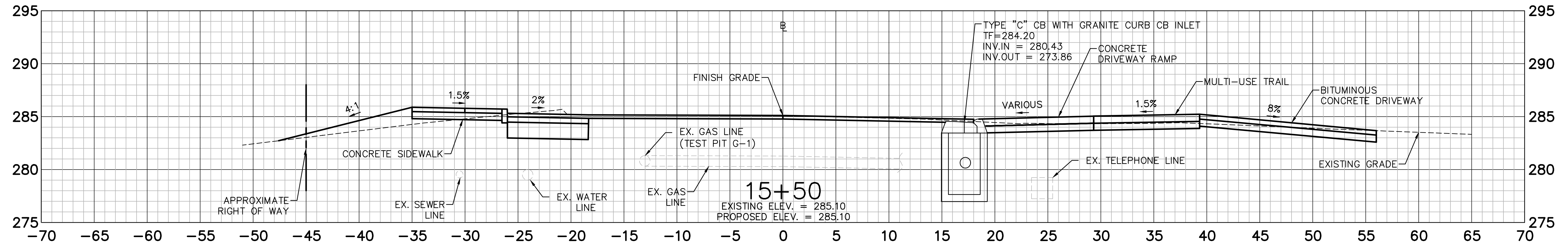
TSYANG LIN, PE, PTOE NO. 23422

**BROOKFIELD STREETScape PHASE II  
ROUTE 202 (FEDERAL ROAD)  
BROOKFIELD, CONNECTICUT**

DESIGNED:	YL
DRAFTED:	PT
CHECKED:	RG
APPROVED:	
SCALE:	1" = 5'
PROJECT NO.:	2017-0605
DATE:	04/18/2019
FILE:	HW_MST_2017_0605_CS_FD

TITLE:	CROSS SECTION
SHEET NUMBER:	XSC-1.A2

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 CONNECTICUT 06804

TYIANG LIN, PE, P102 NO. 23422

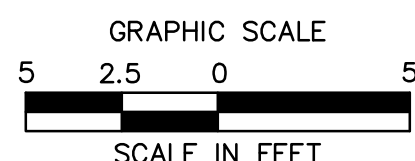
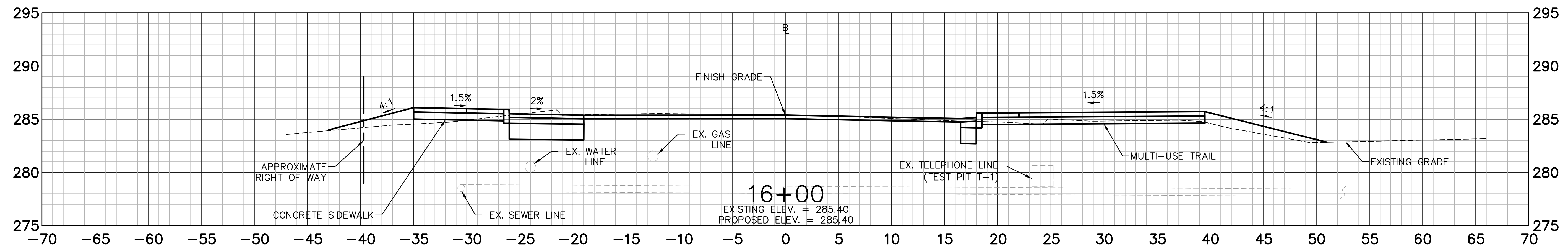
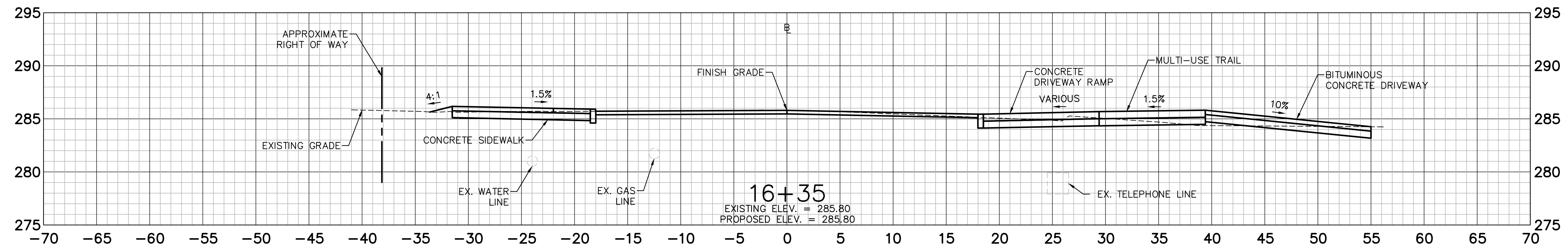
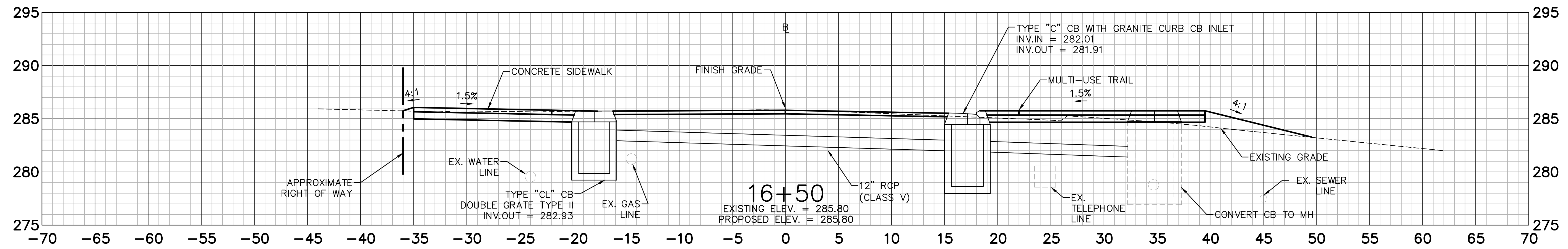
**BROOKFIELD STREETScape PHASE II  
 ROUTE 202 (FEDERAL ROAD)  
 BROOKFIELD, CONNECTICUT**

DESIGNED:	YL	
DRAFTED:	PT	
CHECKED:	RG	
APPROVED:		
SCALE:	1" = 5'	
PROJECT NO.:	2017-0605	
DATE:	04/18/2019	
FILE:	HW_MST_2017_0605_CS_FD	
NO.	DATE	DESCRIPTION
REVISIONS		

TITLE:  
**CROSS SECTION**

SHEET NUMBER:  
**XSC-2.A2**

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**REPLACED BY ADDENDUM NO. 2**

**BROOKFIELD STREETScape PHASE II  
ROUTE 202 (FEDERAL ROAD)  
BROOKFIELD, CONNECTICUT**

**FREEMAN COMPANIES**  
30 JOHN STREET  
HARTFORD, CT 06106  
WWW.FREEMANCS.COM  
TOLL FREE (800)604-5141  
FAC (860)966-7151  
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PREPARED FOR  
TOWN OF BROOKFIELD  
100 POCONO ROAD  
BROOKFIELD,  
CONNECTICUT 06804

OWNER FOR  
TOWN OF BROOKFIELD  
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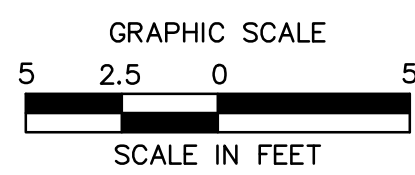
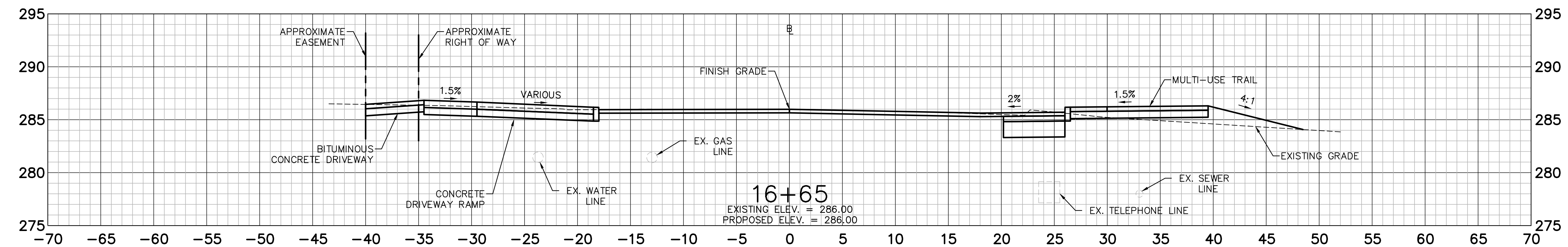
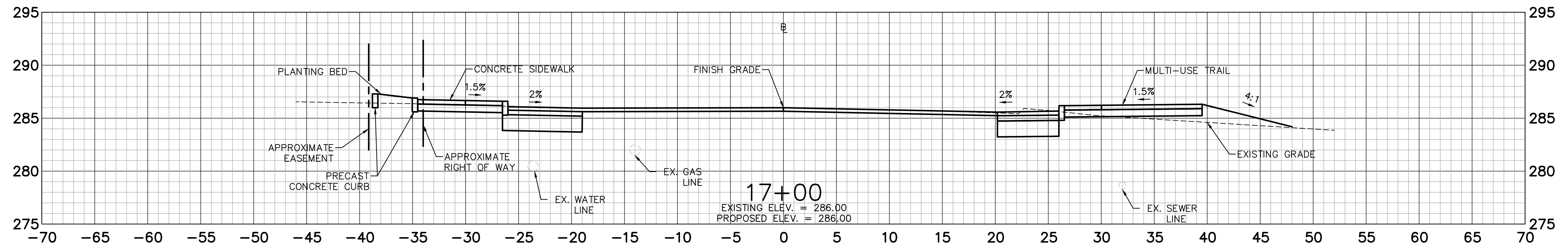
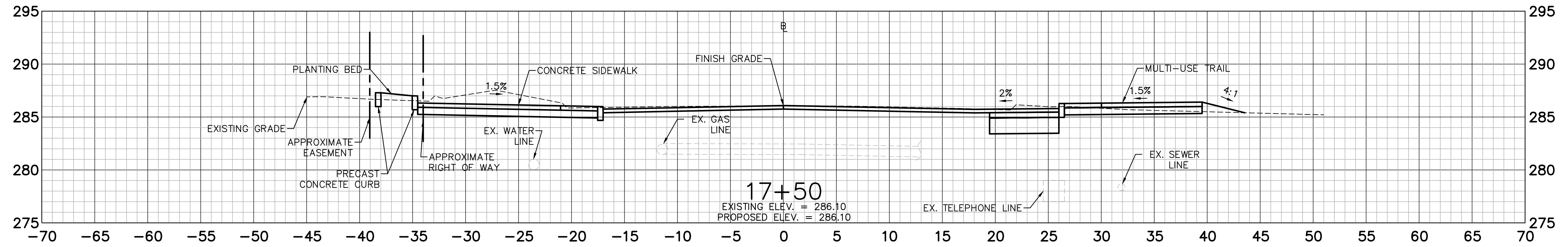
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CHECKED:	RG
APPROVED:	
SCALE:	1" = 5'
PROJECT NO.:	2017-0605
DATE:	04/18/2019
FILE:	HW_MST_2017_0605_CS_FD

TITLE:	CROSS SECTION
SHEET NUMBER:	XSC-3.A2

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**BROOKFIELD STREETScape PHASE II  
ROUTE 202 (FEDERAL ROAD)  
BROOKFIELD, CONNECTICUT**

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DESIGNED BY: YL  
DRAFTED BY: PT  
CHECKED BY: RG  
APPROVED BY:  
SCALE: 1" = 5'  
PROJECT NO.: 2017-0605  
DATE: 04/18/2019  
FILE: HW\_MST\_2017\_0605\_CS\_FD

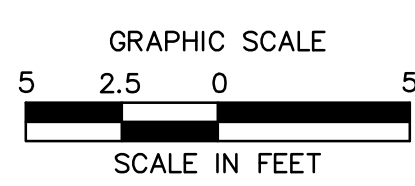
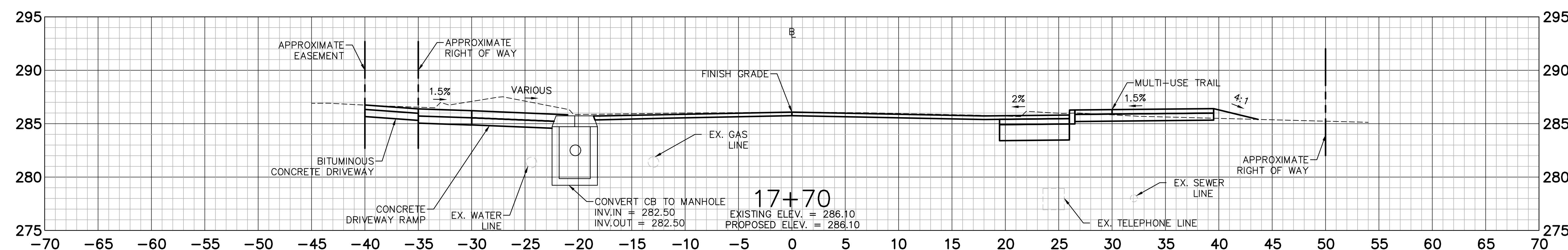
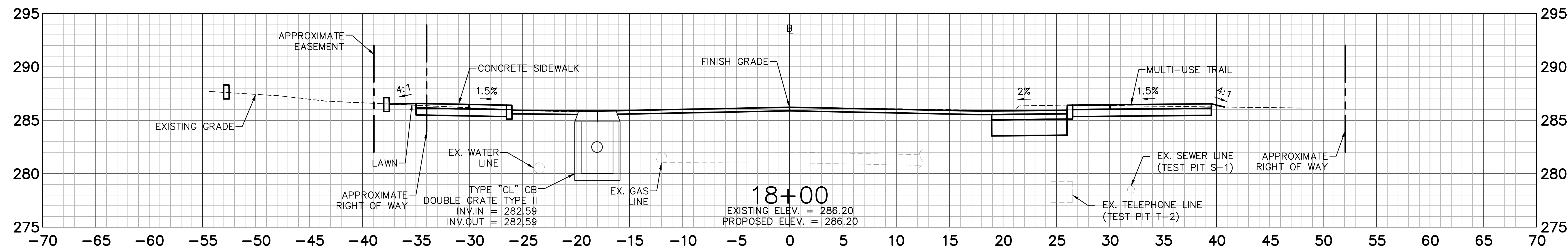
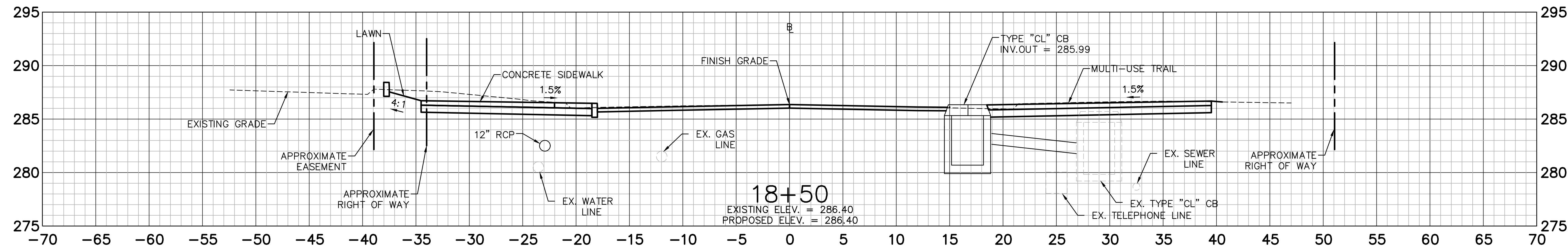
NO.	DATE	DESCRIPTION
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REVISIONS		

DESIGNED: YL	TITLE: CROSS SECTION
DRAFTED: PT	SHEET NUMBER: XSC-4.A2
CHECKED: RG	
APPROVED:	
SCALE: 1" = 5'	
PROJECT NO.: 2017-0605	
DATE: 04/18/2019	
FILE: HW_MST_2017_0605_CS_FD	

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**BROOKFIELD STREETScape PHASE II  
 ROUTE 202 (FEDERAL ROAD)  
 BROOKFIELD, CONNECTICUT**

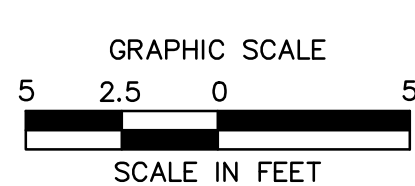
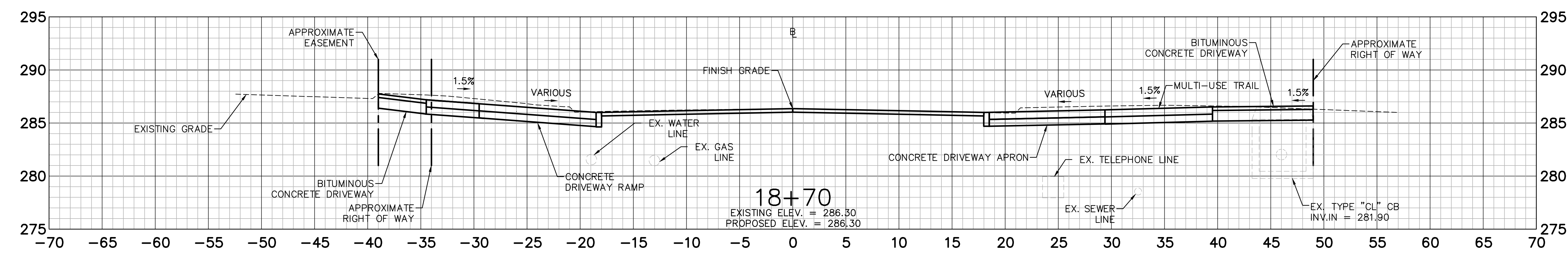
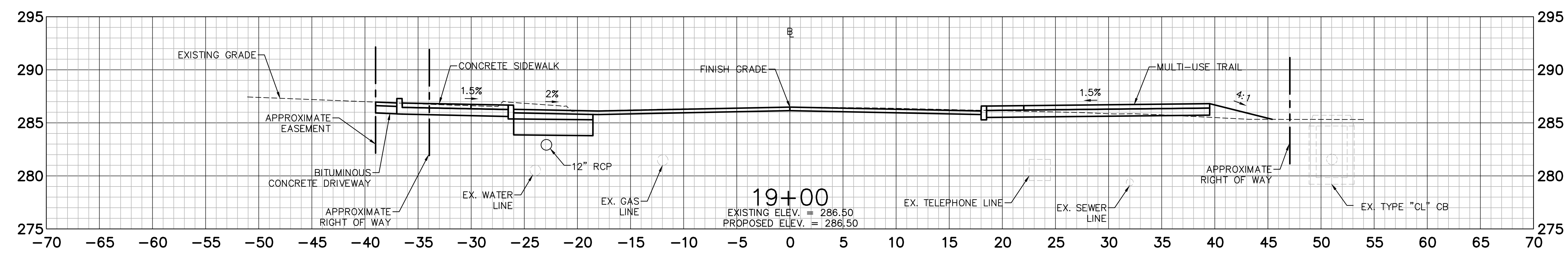
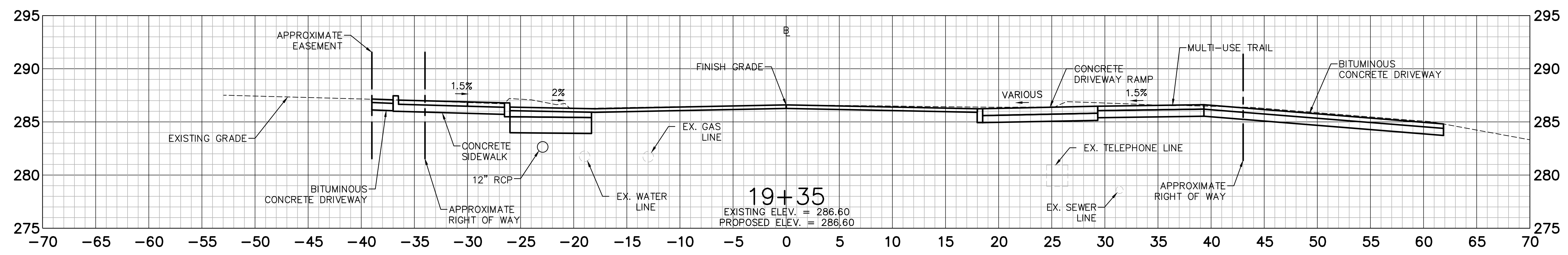
**FREEMAN COMPANIES**  
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 CONNECTICUT 06804

OWNER FOR  
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TSYANG LIN, PE, P10X NO. 23422	
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DESIGNED:	YL	TITLE:	CROSS SECTION
DRAFTED:	PT	SHEET NUMBER:	XSC-5.A2
CHECKED:	RG	PROJECT NO.:	2017-0605
APPROVED:		DATE:	04/18/2019
SCALE:	1" = 5'	FILE:	HWL_MST_2017_0605_CS_FD
NO. DATE	DESCRIPTION		
05/01/19	CROSS SECTIONS REVISED TO REFLECT BRICK PAVER WIDTH		
	REVISIONS		



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 ROUTE 202 (FEDERAL ROAD)  
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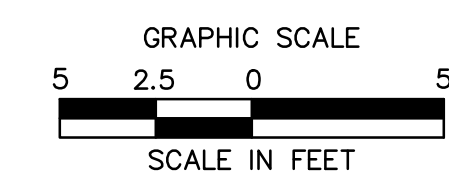
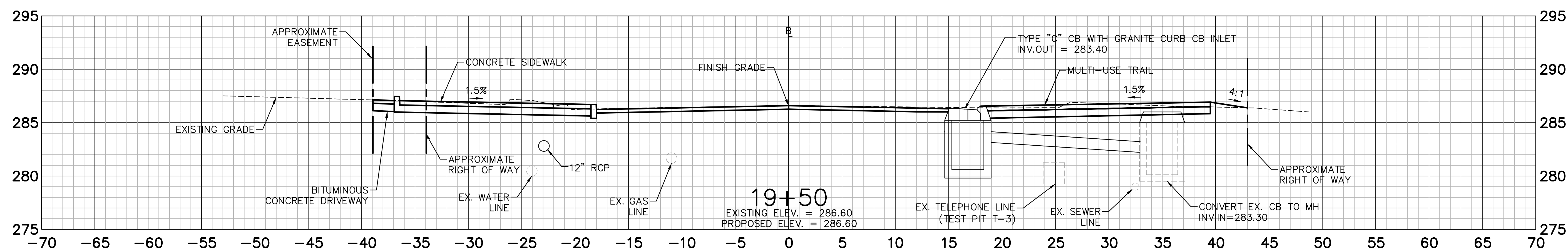
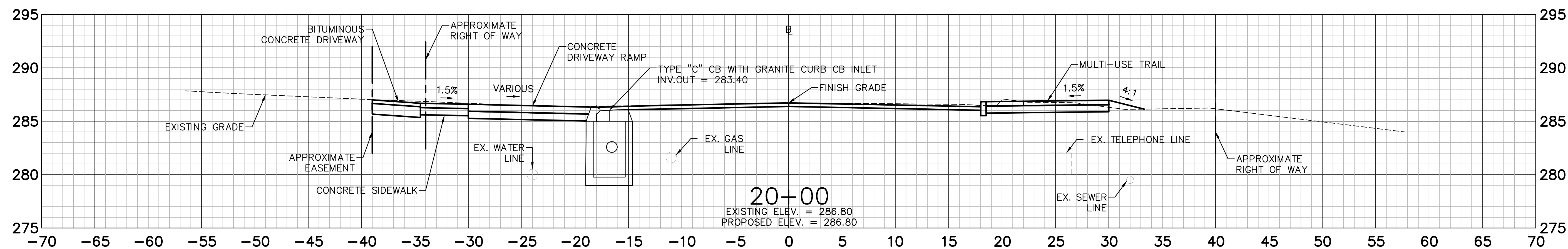
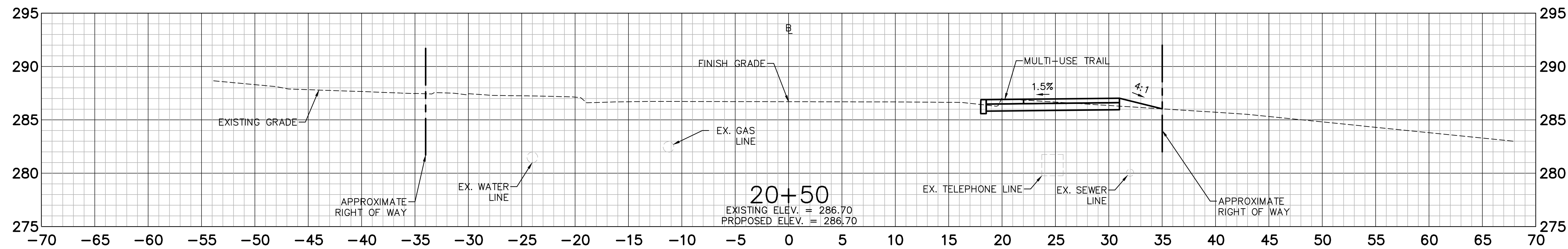
DESIGNED: YL  
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 CHECKED: RG  
 APPROVED:  
 SCALE: 1" = 5'  
 PROJECT NO.: 2017-0605  
 DATE: 04/18/2019  
 FILE: HW\_MST\_2017\_0605\_CS\_FD

NO.	DATE	DESCRIPTION
1	05/01/19	CROSS SECTIONS REVISED TO REFLECT BRICK PAVER WIDTH
REVISIONS		

TITLE: <b>CROSS SECTION</b>
SHEET NUMBER: <b>XSC-6.A2</b>

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ROUTE 202 (FEDERAL ROAD)  
BROOKFIELD, CONNECTICUT**

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1	05/01/19	CROSS SECTIONS REVISED TO REFLECT BRICK PAVER WIDTH
REVISIONS		

DESIGNED: YL	TITLE: CROSS SECTION
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CHECKED: RG	
APPROVED:	
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**INVITATION TO BID**  
**STREETSCAPE PHASE 2**  
**BROOKFIELD, CONNECTICUT**

Sealed bids for the Brookfield Streetscape Phase 2 Project No. 18-136 will be received at the Office of the Purchasing Director until 11:00 am, Tuesday May 7, 2019. Thereafter, bids will be opened in public and read aloud. No bids will be accepted after said date and time.

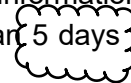
The Town of Brookfield hereby notifies all bidders that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, minority and disadvantaged business enterprises will be afforded full opportunity to submit bids in response to this invitation and that they will not be discriminated against on the grounds of race, color, national origin or sex in consideration for an award.

Prospective bidders shall examine the "Information For Bidders" and shall comply and conform strictly to the conditions and instructions contained therein.

Plans and Specifications may be obtained from the Land Use Office at Brookfield Town Hall, Room 103, 100 Pocono Rd, Brookfield, CT 06804. Cost for the Bid Package is one hundred (\$100) dollars which will not be refunded. Plans and Specs will also be posted on the State of CT Contracting Portal, <https://portal.ct.gov/DAS>, and on the Town's website, [www.brookfieldct.gov](http://www.brookfieldct.gov), in the "Bids & RFP" page.

A Mandatory Pre-Bid meeting will be held on Tuesday, April 23, 2019 at 11:00am at the Town Hall (same address as above) in room 133.

Any requests for additional information, interpretations or clarifications of these Contract Documents by potential bidders shall be made in writing to Greg Dembowski, Project Manager, at [gdembowski@brookfieldct.gov](mailto:gdembowski@brookfieldct.gov) or at 203-740-3865, no later than 5 calendar days prior to the scheduled bid opening date. If determined to be necessary or required, addenda issued on both the Town and State bid notice pages. Bidders who pick up Plans from the Town that have provided adequate contact information will be sent addenda, if issued. All addenda shall be posted or sent no later than 5 days prior to the bid closing and opening.



The Town of Brookfield reserves the right to accept any bid or part of bids, to reject any, all or any part of the bids, to waive any formalities or informalities in the bidding process and to award the bid deemed to be in the best interest of the Town.

All bidders are required to inform themselves fully of the conditions relating to the construction and labor under which the work will be or is now being performed and the contractor shall employ, as far as possible, such methods and means in the carrying out of this work as will not cause interference with any other contractor.

**10. CONTRACT AND CONTRACT DOCUMENTS:**

The plans, specifications and addenda form part of the contract, and the provisions thereof are as binding upon the contracting parties as if they were herein fully set forth. The tables of contents, titles, headings, running headlines and marginal notes contained herein and in said documents are solely to facilitate reference to various provisions of the contract documents and in no way affect, limit, or cast light on the interpretation of the provisions to which they refer.

**11. TIME FOR COMPLETION AND LIQUIDATED DAMAGES:**

It is hereby understood and mutually agreed by and between the contractor and the owner that the date of beginning and the time for completion as specified in the contract of work to be done hereunder are essential conditions of the contract and it is further mutually understood and agreed that the work embraced in this contract shall be commenced on a date to be specified in the Notice to Proceed.

The contractor agrees that said work shall be prosecuted regularly, diligently, and uninterruptedly at such rate of progress as will ensure full completion thereof within the time specified. It is expressly understood and agreed, by and between the contractor and the owner, that the time for completion of the work described herein is a reasonable time for the completion of the same, taking into consideration the average climatic range and usual industrial conditions prevailing in this locality.

If the contractor neglects, fails or refuses to complete the work within the time herein specified, or any proper extension thereof granted by the owner, then the contractor agrees, as a part consideration for the awarding of this contract, to pay to the owner the amount specified in the contract, not as a penalty but as liquidated damages for breach of contract as hereinafter set forth, for each and every calendar day that the contractor shall be in default after the time stipulated in the contract for completing the work.

The liquidated damages amount is fixed and agreed upon by and between the contractor and the owner because of the impracticability and extreme difficulty of fixing and ascertaining the actual damages the owner would in such event sustain, and said amount is agreed to be the amount of damages which the owner would sustain and said amount shall be retained from time to time by the owner from current periodical estimates.

Given the restricted planting seasons for deciduous plants, planting is excluded from the time of completion and liquidated damages.

It is further agreed that time is of the essence of each and every portion of this contract and of the specification wherein a definite and certain length of time is fixed for the performance of any act whatsoever; and where under the contract an additional time is allowed for the completion of any of the work, the new time limit fixed by such extension shall be of the essence of this contract, provided that the contractor shall not be charged with liquidated damages or any excess cost when the owner determines that the contractor is without fault and the contractor's reasons for the time extension are acceptable to the owner, provided further that the contractor shall not be charged with liquidated damages or any excess cost when the delay of completion of the work is due:

- A. to any preference, priority or allocation order duly issued by the government;
- B. to unforeseeable cause beyond the control and without the fault or negligence of the contractor, including but not restricted to, acts of the owner, acts of another contractor in the performance of a contract with the owner, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and severe weather; and/or
- C. to any delays of subcontractors or suppliers occasioned by any of the causes specified in the preceding two paragraphs, provided further that the contractor shall, within ten (10) days from the

The additional drawings and instructions thus supplied to the contractor will coordinate with the contract documents. The contractor shall carry out the work in accordance with the additional detail drawings and instructions. The contractor and the project manager will prepare jointly (a) a schedule, fixing the dates at which specific detail drawings will be required, such drawings, if any, to be furnished by the project manager in accordance with said schedule and (b) a schedule fixing the respective dates for the submission of shop drawings, the beginning of manufacturer's testing, installation of materials, supplies and equipment, and the completion of the various parts of the work; each such schedule is subject to change in accordance with actual work progress.

**19. SHOP OR SETTING DRAWINGS:**



The contractor shall submit to the project manager six copies of each shop or setting drawing prepared in accordance with the above, predetermined schedule at least 5 calendar days in advance of their proposed use in order to allow for their review by the Engineer, as well as for any necessary revision and approval of the drawing, without undue delay of the Project construction. After examination of such drawings by the project manager, and the return thereof, the contractor shall make such corrections to the drawings as have been indicated and shall furnish the project manager with six corrected copies. Regardless of corrections made in, or approval given to, such drawings by the project manager, the contractor will nevertheless be responsible for the accuracy of such drawings and for their conformity to the plans and specifications, unless he notifies the project manager, in writing, of any deviations at the time he furnishes such drawings.

**20. MATERIALS, SERVICES AND FACILITIES:**

It is understood that, except as otherwise specifically stated in the contract documents, the contractor shall provide and pay for all materials, labor, tools, equipment, water, light, power, transportation, superintendence, temporary construction of every nature, and all other services and facilities of every nature whatsoever necessary to execute, complete, and deliver the work within the specified time.

Any work necessary to be performed after regular hours, on Sundays or legal holidays, shall be performed without additional expense to the owner.

**21. CONTRACTOR'S TITLE TO MATERIAL:**

No materials or supplies for the work shall be purchased by the contractor or by any subcontractor subject to any chattel mortgage or under a conditional sale contract or other agreement by which an interest is retained by the seller. The contractor warrants that he has good title to all materials and supplies used in the work, free from all liens, claims or encumbrances.

**22. INSPECTION AND TESTING OF MATERIALS:**

All materials and equipment used in the construction of the project shall be subject to adequate inspection and testing in accordance with accepted standards. The laboratory or inspection agency shall be retained by the owner.

Materials of construction, particularly those upon which the strength and durability of the structure may depend, shall be subject to inspection and testing to establish conformance with specifications and suitability for uses intended.

Any authorized agent of the Municipality shall be permitted to inspect the project in general or any of its phases.

## **ITEM #0202452A - TEST PIT**

**Description:** This work shall consist of the excavation of test pits where necessary to locate or examine utilities, subsurface structures, pipes, soils, groundwater, or any other obstacles or conditions.

This work shall consist of the satisfactory removal of all materials including, but not limited to, sawcutting pavements and sidewalks, pavement and sidewalk removal, excavation, shoring and bracing, water removal from within pit, stockpiling, satisfactory disposal of surplus or unsuitable material, backfilling, compacting, pavement repair, sidewalk repair, etc.

Test pits shall be dug as necessary for the Contractor to determine subsurface conditions as indicated on the Contract Drawings or as directed by the Owner's Representative.

This work shall include the coordination with the affected utility companies. Any damage caused by the Contractor or Subcontractors, as determined by the Engineer, shall be corrected by the Contractor in accordance with these specifications.

**Materials:** All materials shall be provided by the Contractor and shall meet the current standards of the affected service.

**Construction Methods:** Coordinate excavation of test pits with respective utility company, or other owners having facilities in the vicinity. Check with "Call Before You Dig" (dial 811) before digging.

Give sufficient notice and allow ample delay time for others to perform necessary work.

Notify the Owner's Representative one-week in advance of digging each test pit.

Perform all work in conformance with applicable safety codes.

Sawcut pavement, sidewalk, curbs, or other hard surface materials in neat and straight line. Excavate pits, providing clean-cut vertical sides. Provide sheeting, bracing, and dewatering wherever necessary.

Dig test pits ensuring that underground utilities or structures are not damaged. The Contractor shall excavate by hand methods where necessary to ensure that underground utilities or structures are not damaged. It shall be the Contractor's sole responsibility for any damages incurred during excavation operations. Any damages shall be repaired or replaced by the Contractor to the satisfaction of the Owner/Responsible Agency/Owner's Representative at the Contractor's own expense.

The Contractor shall measure and record the size, configuration, exact horizontal and vertical location of all utilities, pipes or other obstacles uncovered in the pits. Submit information in written or sketch form to the Owner's Representative and respective utility companies for review. Notify the Owner's Representative of any revealed conflicts which may require design

revisions, relocations and/or adjustments as early as possible to avoid unnecessary delays. No work shall be started within areas of conflict until so authorized.

Protect each pit with steel plates, other coverings, fences, barriers or other appropriate materials as deemed necessary.

Do not backfill pits until authorized. Compact backfill materials to at least 95% of maximum density to the subgrade elevation or as otherwise directed.

The surface of test pit areas shall be restored to a condition equal or better than original as approved by the Owner's Representative.

**Method of Measurement:** When previously approved by the Engineer, the item, Test Pit will be measured for payment by the number of test pits performed on the project. An estimate of cost shall be provided to the engineer prior to performing test pits.

Corrective work required repairing damage caused by the Contractor or its Subcontractors shall not be measured for payment.

**Basis of Payment:** The item, "Test Pit", will be paid for at the Contract unit price each for "Test Pit", which price shall include all materials, equipment, labor and tools necessary for or incidental to the satisfactory completion if this work.

Pay Item  
Test Pit

Pay Unit  
EA



**ITEM NO. 0921001A – CONCRETE SIDEWALK**

**ITEM NO. 0921010A – MONOLITHIC CONCRETE CURB AND SIDEWALK**

2

Concrete sidewalks shall be constructed in accordance with Article 9.21, supplemented as follows:

**9.21.01- Description:** Add the following:

The item shall include furnishing and applying water and salt repellent sealer to the surface of the finished concrete sidewalk.

Monolithic concrete curb and sidewalk shall consist of monolithic concrete curb and sidewalk constructed on a gravel or reclaimed miscellaneous aggregate base course in the locations and to the dimensions and details shown on the plans or as ordered and in accordance with these specifications.

2

**9.21.02-Materials:** Add the following:

Acceptable Manufacture(s):

1. Consolideck® Saltguard® WB by Prosoco  
[www.prosoco.com](http://www.prosoco.com) 1-800-255-4255
2. Powerseal 40 water repellent sealer by Vexcon  
[www.vexcon.com](http://www.vexcon.com) 1-888-839-2661  
or approved equal

**9.21.03-Construction Methods:** Add the following:

Water and salt repellent shall be installed per the manufacturer's recommendation and installation instructions.

**9.21.01- Method of Measurement:** Add the following:

Water and salt repellent will not be measured for payment. All materials, equipment, tools and labor incidental thereto shall be included in the unit price for Concrete Sidewalk and Monolithic Concrete Curb and Sidewalk.

**Monolithic Concrete Curb and Sidewalk:** This work will be measured by the actual number of square feet of completed and accepted monolithic concrete curb and sidewalk.

2

**9.21.05- Method of Measurement:** Add the following:

Water and salt repellent will not be measured for payment. All materials, equipment, tools and labor incidental thereto shall be included in the unit price for Concrete Sidewalk and Monolithic Concrete Curb and Sidewalk.

<u>Pay Item</u>	<u>Pay Unit</u>	
Concrete Sidewalk	SF	
Monolithic Concrete Curb and Sidewalk	SF	△

**ITEM #0947305A – INSTALL BUS SHELTER**

**Description:**

2

This item shall consist of installing bus shelter and constructing a concrete pad at the location shown on the plans or as ordered and in conformance with the plans and these specifications. The bus shelter will be furnished by the Town of Brookfield.

**Required Submittals:**

None

**Materials:**

Concrete:

2

2 Provide concrete for foundation conforming to the requirements of Section 6.01 and Article M.03 of these specifications and shall be Class “A”. The concrete shall not contain less than five nor more than seven percent entrained air at the time the concrete is placed.

**Construction Methods:**

2

2 The Contractor shall be responsible for contacting the Town of Brookfield to coordinate delivery of the bus shelter. The delivery should be timed so as to minimize on-site storage time prior to installation. All stored materials and items must be protected from weather, careless handling and vandalism.

2 Bus Shelter shall be installed per the manufacturer’s recommendation and installation instructions, including size and depth of concrete foundation and at locations shown on the Contract Documents.

**Method of Measurement:**

The work shall be measured for payment by the actual number (ea.) of bus shelter complete and accepted in place.

There will be no measurement of payment for the cost of subbase preparation, concrete pad, reinforcement, anchorage and coordination.

**Basis of Payment:**

This work will be paid for at the contract unit price per actual number (ea.) of “Bus Shelter” complete and accepted in place, which price shall include all coordination, materials,

reinforcement, subbase preparation, anchorage, equipment, tools and labor incidental thereto the placement of each item

Pay Item

Pay Unit

Install Bus Shelter

EA

**ITEM #0947306A – INSTALL CLUSTER BOX UNITS (CBU’S)**

**Description:**

2

This item shall consist of installing Cluster Box Units and constructing a Concrete Pad at the location shown on the plans or as ordered and in conformance with the plans and these specifications. The CBU will be furnished by the Town of Brookfield.

**Required Submittals:**

None

**Materials:**

Concrete:

2

2 Provide concrete for foundation conforming to the requirements of Section 6.01 and Article M.03 of these specifications and shall be Class “A”. The concrete shall not contain less than five nor more than seven percent entrained air at the time the concrete is placed.

**Construction Methods:**

2

2 The Contractor shall be responsible for contacting the Town of Brookfield to coordinate delivery of the CBU. The delivery should be timed so as to minimize on-site storage time prior to installation. All stored materials and items must be protected from weather, careless handling and vandalism.

CBU shall be installed per the manufacturer’s recommendation and installation instructions, including size and depth of concrete foundation and at locations directed by the Engineer.

**Method of Measurement:**

2

The work shall be measured for payment by the actual number (ea.) of cluster box units complete and accepted in place.

There will be no measurement of payment for the cost of subbase preparation, concrete pad, reinforcement, anchorage and coordination.

**Basis of Payment:**

This work will be paid for at the contract unit price per actual number (ea.) of “Cluster Box Units” complete and accepted in place, which price shall include all coordination, materials,

reinforcement, subbase preparation, anchorage, equipment, tools and labor incidental thereto the placement of each item

Pay Item

Pay Unit

Install Cluster Box Units

EA