

SALEM MUNICIPAL SERVICES

Roy E. Sorenson - *Director*

www.townofsalemnh.org



ENGINEERING DIVISION

Daniel Hudson, PE – *Director*

33 GEREMONTY DRIVE

SALEM, NH 03079

TEL: 603-890-2033 FAX: 603-898-1223

2017 ROADWAY STABILIZATION PROJECT

SALEM, NH

ADDENDUM No. 1

January 9, 2017

This Addendum forms part of the Bidding and Contract Documents and modifies the Drawings and Contract and Specifications for the 2017 Roadway Stabilization Project. The items set forth herein, whether of omission, addition, substitution or clarification, are all to be included in and shall form part of the proposed work and Bids submitted to the Town of Salem, New Hampshire. Inclusion of this Addendum shall be acknowledged by inserting its number in the space provided in the Bid Proposal form (Section 00301A). Failure to acknowledge any and all addenda in the above specified Bid Proposal form may be cause for rejection of the bid by the Owner on the grounds that it is not responsive.

ADDEDNDUM No. 1

Bidders are advised to make the following revisions to the CONTRACT DOCUMENTS AND SPECIFICATIONS:

1. **Insert** the attached Section 00301A (Bid) in the CONTRACT DOCUMENTS AND SPECIFICATIONS and **Discard** the original version of Section 00301A.

The revised document adds quantities not shown in the original document.

2. **Insert** the attached "Quantity Breakdown by Street" into Appendix B in the CONTRACT DOCUMENTS AND SPECIFICATIONS and **Discard** the original version of the same.

The revised document adds quantities not shown in the original document.

3. **Insert** the attached sketch SK1 and details D7 and D8 into Appendix A in the CONTRACT DOCUMENTS.

The sketch and details provide for replacement of a shallow 375-foot drainage run inclusive of barrel block drain structures, headwalls and stone protection aprons. The sketch also provides for additional excavation at the outfall and erosion control measures. Quantities have been updated as stated in Item #1 and #2 above.

4. **Drain catch basin** quantity has been added to Marie Ave to correct a puddling condition on the south side of the road opposite the Off Marie Ave intersection. The new drain structure will be installed in-line on an existing drainage run. Paving operation shall ensure that the new basin location is low point along the shoulder. Where field conditions dictate that cut and patch are necessary work shall be ordered by the Owner. Quantities have been updated as stated in Item #1 and #2 above.
5. **Silt fence** quantities have been added to the Salem Street reclaim portion of the work in order to provide an erosion control barrier between the Work and the prime wetland adjacent to both sides of the roadway.
6. **Revised Contract Opinion of Cost** is approximately \$900,000 with the additional items provided.

****END OF ADDENDA NO. 1****

SECTION 00301A

BID

To the Town of Salem, New Hampshire, herein called the Owner, acting by and through its Engineering Division, for the **2017 Roadway Stabilization Program**:

The Undersigned, as bidder, herein referred to as singular and masculine, declares as follows:

- (1) The only parties interested in this BID as Principals are named herein;
- (2) This BID is made without collusion with any other person, firm, or corporation;
- (3) No officer, agent, or employee of the Owner is directly or indirectly interested in this BID;
- (4) He has carefully examined the site and adjacent areas of the proposed Work and fully informed and satisfied himself as to the conditions and restraints existing, the character and requirements of the proposed Work, the difficulties attendant upon its execution given said conditions and restraints, and the accuracy of all estimated quantities stated in this BID, and he has carefully read and examined the Contract Documents therein referred to and knows and understands the terms and provisions thereof;
- (5) He understands that information relative to subsurface and other conditions, natural phenomena, existing pipes, foundations, and other structures (surface and/or subsurface) has been furnished only for his information and convenience without any warranty or guarantee, expressed or implied, that the subsurface and/or other conditions, natural phenomena, existing pipes, foundations, and other structures (surface and/or subsurface) actually encountered will be the same as those shown in the Contract Documents and he agrees that he shall not use or be entitled to use any such information made available to him through the Contract Documents or otherwise or obtained by him in his own examination of the site, as a basis of or ground for any claim against the Owner or the Engineer arising from or by reason of any variance which may exist between the aforesaid information made available to or acquired by him and the subsurface and/or other conditions, natural phenomena, existing pipes, foundations, and other structures (surface and/or subsurface) actually encountered during the construction work, and he has made due allowance therefore in this BID;

BID

00301A -1

- (6) He understands that protection of public or private property is the Contractor's responsibility and any damage, whether in or out of the work limit, to any public or private property, facility, structure or utility resulting from any action of his in the prosecution of work shall be his sole burden to correct to the fullest satisfaction of the owner of such public or private property, facility, structure or utility. He understands that no additional compensation of any kind is warranted or will be granted for any damage to any public or private property, facility, structure or utility damaged as a result of his prosecution of any work;
- (7) he understands that the quantities of work tabulated in this BID or indicated in the Contract Documents are only approximate and are subject to increase or decrease as deemed necessary by the Engineer;
- (8) he agrees that, if this BID is accepted he will contract with the Owner, as provided in the copy of the Contract Documents deposited in the office of the Engineer, this BID form being part of said Contract Documents, and that he will perform all the work and furnish all the materials and equipment, and provide all labor, services, plant, machinery, apparatus, appliances, tools, supplies and all other things required by the Contract Documents in the manner and within the time therein prescribed and according to the requirements of the Engineer as therein set forth, and that he will take in full payment therefore the lump sum or unit price applicable to each item of the Work as stated in the schedule below.

Note: Bidders must submit a completed Statement of Bidders Qualifications with the Bid. Failure to submit a completed Statement of Bidders Qualifications may be deemed by the Owner as a non-responsive Bid. Refer to Section 00420.

Note: Bidders must bid on each item. All entries in the entire BID must be made clearly and in ink. In case of discrepancy between prices in words and in figures, the words shall govern. In case of discrepancy between the product obtained by multiplying the estimated quantity by the unit price, and the extended amount, the product obtained shall govern. In case of discrepancy between total of extended amounts and total amount of bid stated, total of extended amounts shall govern. Use the pages in this document when submitting proposal and submit contract documents intact.

This BID includes Addenda number(s) _____ (To be filled in by Bidder if Addenda are issued.)

BID
00301A -2

Bid Schedule
Base Bid
2017 Roadway Stabilization Project
Salem, New Hampshire

Base Bid

ITEM	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE		EXTENDED TOTAL
				Words	Figures	
203.1	Common Excavation	210	CY			
203.4	Excavation of unsuitable Material	30	CY			
203.6	Embankment in place (Millings used as gravel shim)	105	CY			
214	Road Base Preparation, Compaction, & Fine Grade	2070	SY			
304.2	Bank Run Gravel	70	CY			
304.3	Crushed Gravel for shoulders	230	CY			
306.108	Reclaimed Stabilized Base, In-Place (8" deep)	1065	SY			
403.11	Hot Bituminous Paving, Machine Method	4693	TONS			
403.111	Small Qty Machine Patch Areas	191	TONS			
403.12	HBP Hand Method (driveways and structure patch)	261	TONS			
411.3	Plant Mix Surface Treatment, Paver Shim	91	TONS			
417	Cold Planing Bituminous Surfaces	50664	SY			
585.3	Rip Rap Apron (Stone Size C1 & C2)	25	CY			
603.00415	15" RCP Drain Pipe	26	LF			
603.83215	15" HDPE Drain Pipe	362	LF			
604.0007	Polyethylene Liner (for catch basins)	78	EA			
604.129	Catch Basin, Typ B (Barrel Block)	3	EA			
604.39	Drain Manhole (Barrel Block)	1	EA			

ITEM	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE		EXTENDED TOTAL
				Words	Figures	(Figures)
604.4	Remodel Existing Drainage Structures	13	EA			
604.41	Maintain & Adjust Catchbasin Frame & Grate	44	EA			
604.51	Maintain & Adjust Sewer Manhole Frame & Cover	35	EA			
604.52	Maintain & Adjust Drain Manhole Frame & Cover	1	EA			
604.61	New Sewer Manhole Frame and Cover	3	EA			
604.62	New Drain Manhole Frame and Cover	2	EA			
604.72	New Type B Frame & Grate	34	EA			
608.131	3" Bituminous Sidewalks	222	SY			
609.01	Straight Granite Curb	400	LF			
609.5	Reset Granite Curb	0	LF			
609.813	Bituminous Curb (cape code)	870	LF			
611.90001	Adjust water Gates & Shutoffs	54	EA			
611.90002	New Valve Box	11	EA			
611.92	Remove and Reset Valve box assembly	4	EA			
618	Uniformed Police for Traffic Control	ALLOWANCE		Sixty Thousand Dollars and no cents	\$ 60,000.00	\$ 60,000.00
619.1	Maintenance of Traffic	1	LUMP			
619.25	Portable Changing Message Board	7	MONTH			
628.2	Sawed Bituminous Pavement	2450	LF			
632.0104	Retroreflective Paint Pavement Marking (4")	37200	LF			

ITEM	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE		EXTENDED TOTAL
				Words	Figures	(Figures)
632.3112	Retroreflective Thermoplastic Pavment (12" Stop)	310	LF			
633.3118	Retroreflective Thermoplastic Pavment (18" Stop)	160	LF			
632.32	Retroreflective Thermoplastic Pavment Marking, Symbol, or Word	50	SF			
645.51	Hay Bales	25	EA			
645.531	Silt Fence	1050	LF			
646.512	Turf Establishment w/ Mulch, Tackifiers, & Loam	1650	SY			
692	Mobilization	1	LUMP			
900	12" & 18" Headwalls	4	EA			
1010.2	Asphalt Cement Adjustment	ALLOWANCE		Fifteen Thousand Dollars	\$ 15,000.00	\$ 15,000.00
TOTAL AMOUNT (BASE BID)						

Total Amount of Base Bid

\$ _____
(Amount in Figures)

(Amount in Words)

The undersigned agrees that extra work, if any, performed in accordance with the Article 10 of the General Conditions of the Contract will be paid for in accordance with Article 11 of the General Conditions of the Contract.

If this BID is accepted by the Owner, the undersigned agrees to complete the entire work provided to be done under the Contract within the time stipulated in the AGREEMENT.

As provided in the INSTRUCTIONS TO BIDDERS, the bidder hereby agrees that he will not withdraw this BID for a period of 90 calendar days after the actual date of the opening of the Bid and that, if the Owner shall accept this BID, the bidder will duly execute and acknowledge the AGREEMENT and furnish, duly executed and acknowledged, the required CONTRACT BONDS and INSURANCE within ten (10) days after notification that the AGREEMENT and other Contract Documents are ready for signature.

Should the bidder fail to fulfill any of his agreements as hereinabove set forth, the Owner shall have the right to retain as liquidated damages the amount of the bid security which shall become the Owner's property. If a bid bond was given, it is agreed that the amount thereof shall be paid as liquidated damages to the Owner by the Surety.

The bidder, by submittal of this BID, agrees with the Owner that the amount of the bid security deposited with this BID fairly and reasonably represents the amount of damages the Owner will suffer due to the failure of the bidder to fulfill his agreements as above provided.

The undersigned further certifies under penalties of perjury that this bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this paragraph the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity. The attached CERTIFICATE OF NON-COLLUSION must be signed and submitted as part of the Bid Proposal.

(SEAL) _____
(Name of Bidder)

By _____
(Signature and title of authorized
representative)

(Telephone)

(Business address)

(Fax Number)

(City and State)

Date _____

BID
00301A -6

The bidder is a corporation incorporated in the State (or Commonwealth) of _____ - a partnership - an individual. (Bidder must add and delete as necessary to make this sentence read correctly.)

Note: If the bidder is a corporation, affix corporate seal and give below the names of its president, treasurer, and general manager if any; if a partnership, give full names and residential addresses of all partners; and if an individual, give residential address if different from business address.

CERTIFICATE OF NON-COLLUSION

By submission of this Proposal, the bidder and each person signing on behalf of the bidder, certifies as to its own organization, under penalty of perjury, that to the best of their knowledge and belief:

1. The prices in this Bid Proposal have been arrived at independently without collusion, consultation, communication, or agreement with any other bidder or with any competitor for the purpose of restricting competition.
2. Unless required by law, the prices that have been quoted in this Bid Proposal have not been knowingly disclosed and will not knowingly be disclosed by the bidder, directly or indirectly, to any other bidder or competitor prior to opening of Proposals.
3. No attempt has been made or will be made by the bidder to induce any other person, partnership, or corporation to submit or not to submit a proposal for the purpose of restricting competition.
4. The signers of the Proposal hereby tender to the Owner this sworn statement that the named Contractor(s) has not, whether directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action to restrain free competitive bidding in connection with this Proposal.

A Bid Proposal will not be considered for award nor will any award be made where there has not been compliance with the statements in the certification above.

(Name of person signing bid or proposal)

(Name of business)

END OF SECTION 00301A

BID
00301A -8

Quantity Breakdown by Street

2017 Roadway Stabilization Project

Note: Quantities herein are provided solely to give the bidder an indication of how work is divided by road. The quantities and locations, however, are not necessarily intended to represent the final amounts to be utilized on each road.

				BASE BID											
ITEM	DESCRIPTION	EST. QTY. total	UNIT	Hampstead Rd	Brookdale Rd	Salem St	Clare Ln	Equestrian Rd	Off Marie Ave	Sullivan Ct	First St	Leeside Dr	Marie Ave	Marianna Rd	Misc. Repair Locations
203.1	Common Excavation	210	CY			100				100			10		
203.4	Excavation of unsuitable Material	30	CY										30		
203.6	Embankment in place (Millings used as gravel shim)	105	CY			50							5		50
214	Road Base Preparation, Compaction, & Fine Grade	2,070	SY			1065							5		1000
304.2	Bank Run Gravel	70	CY	10			40			20					
304.3	Crushed Gravel for shoulders	230	CY	60	60	100					10				
306.108	Reclaimed Stabilized Base, In-Place (8" deep)	1,065	SY			1065									
403.11	Hot Bituminous Paving, Machine Method	4,693	TONS	892.0	491.0	1112.0	132.0	495.0	54.0	101.0	51.00	64.00	385.00	916.00	
403.111	Small Qty Machine Patch Areas	191	TONS	10.0									1		180
403.12	HBP Hand Method (driveways and structure patch)	261	TONS	22.0	21.0	32.0	8.0	50.0	5.0	27.0	5.0	7.0	22.0	37.0	25
411.3	Plant Mix Surface Treatment, Paver Shim	91	TONS					42.0			25			24	
417	Cold Planing Bituminous Surfaces	50,664	SY	10061	5589	10779	1498	5615	608	1142	570	732	4416	8654	1000
585.3	Rip Rap Apron (Stone Size C1 & C2)	25	CY	10									15		
603.00415	15" RCP Drain Pipe	26	LF										26		
603.83215	15" HDPE Drain Pipe	362	LF										362		
604.0007	Polyethylene Liner (for catch basins)	78	EA	10	6	22	0	6	0	3	3	0	8	20	
604.129	Catch Basin, Typ B (Barrel Block)	3	EA										3		
604.39	Drain Manhole (Barrel Block)	1	EA										1		
604.4	Remodel Existing Drainage Structures	13	EA	2	1	2		2					3	3	
604.41	Maintain & Adjust Catchbasin Frame & Grate	44	EA	7	1	18				3	3		4	8	
604.51	Maintain & Adjust Sewer Manhole Frame & Cover	35	EA		7	1		6				1	6	14	
604.52	Maintain & Adjust Drain Manhole Frame & Cover	1	EA											1	
604.61	New Sewer Manhole Frame and Cover	3	EA		1			1						1	
604.62	New Drain Manhole Frame and Cover	2	EA						1					1	
604.72	New Type B Frame & Grate	34	EA	3	5	4		6					4	12	
608.131	3" Bituminous Sidewalks	222	SY							222					
609.01	Straight Granite Curb	400	LF							400					
609.5	Reset Granite Curb	0	LF												
609.813	Bituminous Curb (cape code)	870	LF			50				800				20	
611.90001	Adjust water Gates & Shutoffs	54	EA	6	4	7	10	5	9	2		1	3	7	
611.90002	New Valve Box	11	EA	2	1	2	3	1						2	
611.92	Remove and Reset Valve box assembly	4	EA										2	2	
618	Uniformed Police for Traffic Control	ALLOWANCE													
619.1	Maintenance of Traffic	1	LUMP												

Note: Quantities herein are provided solely to give the bidder an indication of how work is divided by road. The quantities and locations, however, are not necessarily intended to represent the final amounts to be utilized on each road.

				Hampstead Rd	Brookdale Rd	Salem St	Clare Ln	Equestrian Rd	Off Marie Ave	Sullivan Ct	First St	Leeside Dr	Marie Ave	Marianna Rd	Misc. Repair Locations
619.25	Portable Changing Message Board	7	MONTH	1	1	2		1					1	1	
628.2	Sawed Bituminous Pavement	2,450	LF	200	100	500		200	350	500			100		500
632.0104	Retroreflective Paint Pavement Marking (4")	37,200	LF	13000	8200	16000									
632.3112	Retroreflective Thermoplastic Pavment (12" Stop)	310	LF	15	20	20	15	60		15	15		20	130	
633.3118	Retroreflective Thermoplastic Pavment (18" Stop)	160	LF	60	20	20	0	20	0				20	20	
632.32	Retroreflective Thermoplastic Pavment Marking, Symbol, or Word	50	SF			50									
645.51	Hay Bales	25	EA	10									15		
645.531	Silt Fence	1,050	LF			900							150		
646.512	Turf Establishment w/ Mulch, Tackifiers, & Loam	1,650	SY			500				400			700	50	
692	Mobilization	1	LUMP												
900	12" & 18" Headwalls	4	EA	2									2		
1010.2	Asphalt Cement Adjustment	ALLOWANCE													

PROVIDE HAY BALES
AROUND EXCAVATION AREA

CONSTRUCT 5'x5' INLET PROTECTION APRON
UNDERLAY WITH FABRIC (INCIDENTAL)

CONSTRUCT NEW HEADWALL
INV = 96.41
50 LF, 15" HDPE, S=0.003
WETLAND IMPACT AREA = 150 SF

CONSTRUCT BARREL BLOCK DMH
RIM = 98.93
INV IN = 96.26
INV OUT = 96.22
186 LF, 15" HDPE, S=0.003

REMOVE EXIST STRUCTURE
CONSTRUCT BARREL BLOCK CB
WITH 3' PRECAST SUMP
RIM = 98.15
INV IN = 95.67
INV OUT = 95.63
30 LF, 15" RCP, S=0.003

RETAIN TREE

RETAIN TREE

RETAIN TREE

IBM
NAIL IN U/P
EL = 100.00

REMOVE EXIST STRUCTURE
CONSTRUCT BARREL BLOCK CB
WITH 3' PRECAST SUMP
RIM = 98.15
INV IN = 95.54
INV OUT = 95.50
100 LF, 15" HDPE, S=0.003

CONSTRUCT NEW HEADWALL
INV = 95.20

CONSTRUCT SEDIMENT BASIN
L=20', W= 12', 4:1 SIDE SLOPE
BOTTOM = 94.80
PROVIDE RIP RAP ON BOTTOM d50

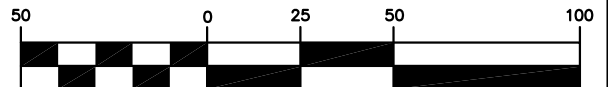
UNDERLAY WITH FABRIC
(INCIDENTAL)
WET IMPACT AREA = 550 SF

R&R "NO DUMPING SIGN"
(INCIDENTAL)

PROVIDE SILT FENCE
AROUND EXCAVATION AREA

NOTES:

1. THE INTENT OF THIS SKETCH IS TO PROVIDE MINOR DRAINAGE IMPROVEMENT AND GRADING ON MARIE AVE ADJACENT TO ADDRESS #14 & #13. THE EXISTING PIPE AND STRUCTURES SHALL BE REMOVED AND REPLACED.
2. THE CONTRACTOR IS ADVISED THAT SUBSURFACE INVESTIGATION MAY BE NECESSARY PRIOR TO ORDERING AND INSTALLATION OF ANY DRAINAGE COMPONENTS. CONDUCT TEST PITS AS DIRECTED.
3. ALL DISTURBED AREAS SHALL BE RESTORED WITH LOAM AND SEED UPON THE COMPLETION OF PIPE AND EXCAVATION ACTIVITIES.
4. PROVIDE SILT FENCE AT THE INLET AND OUT LET AS NEEDED BASED ON FIELD CONDITIONS UNSUITABLE MATERIAL EXCAVATED AT THE INLET AND OUTLET SHALL BE REMOVED FROM THE SITE.



SCALE

DATE:
01/17

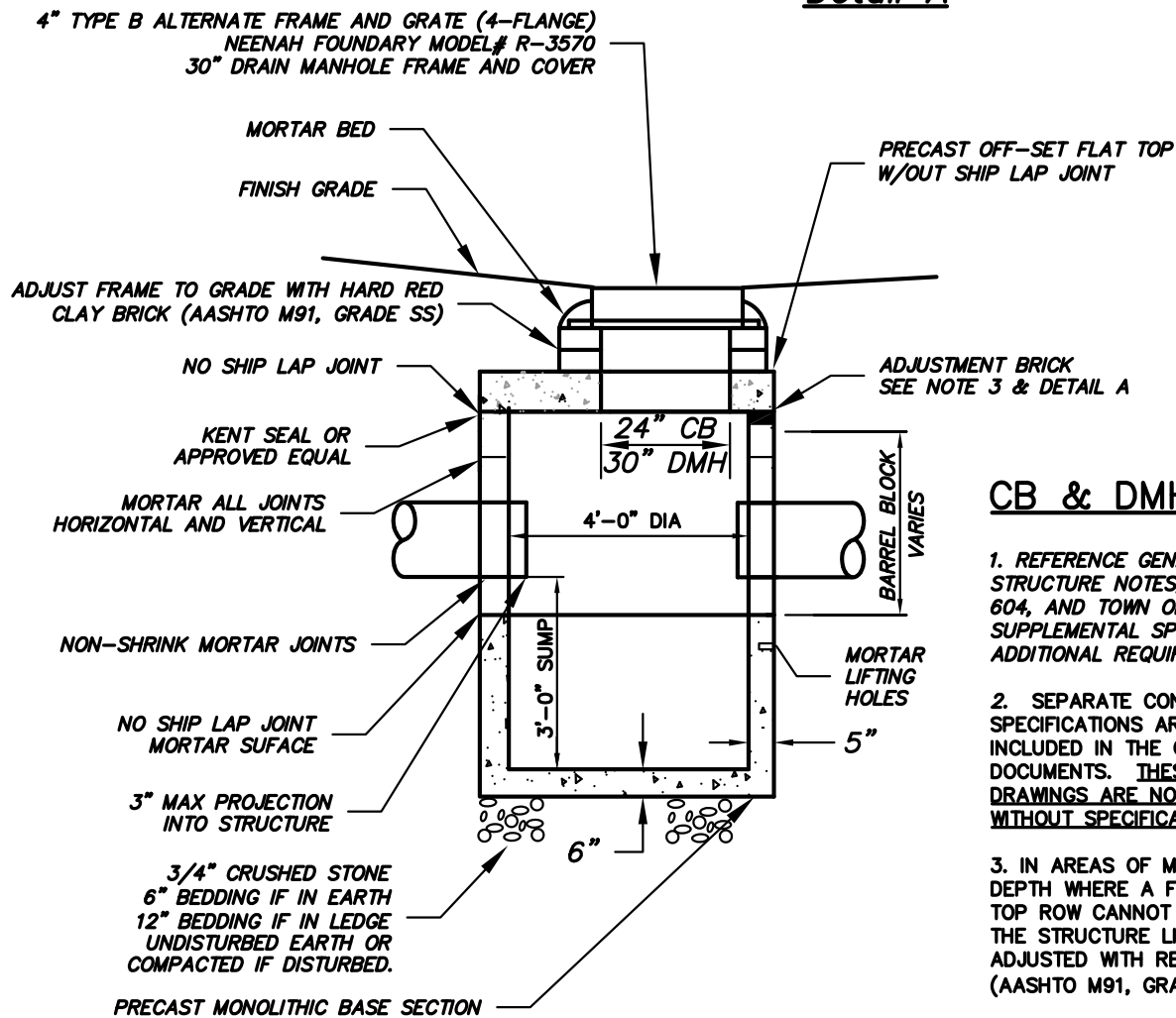
JOB NO.
—

DWG.
SK1

SCALE:
1"=50'

TOWN OF SALEM
ENGINEERING DEPARTMENT
33 GEREMONTY DRIVE
SALEM, NH 03079

2017 OVERLAY PROGRAM
MARIE AVE
DRAINAGE IMP SKETCH



**1. REFERENCE GENERAL DRAIN
STRUCTURE NOTES, NHDOT SECTION
604, AND TOWN OF SALEM
SUPPLEMENTAL SPECIFICATION FOR
ADDITIONAL REQUIREMENTS.**

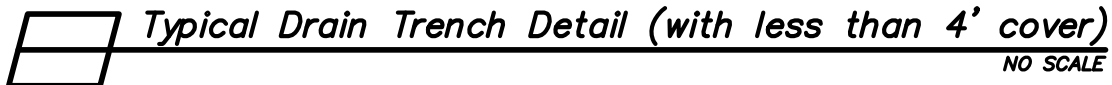
2. SEPARATE CONSTRUCTION SPECIFICATIONS ARE ATTACHED OR INCLUDED IN THE CONTRACT DOCUMENTS. THESE STANDARD DRAWINGS ARE NOT COMPLETE WITHOUT SPECIFICATIONS.
3. IN AREAS OF MINIMAL COVER AND DEPTH WHERE A FULL BARREL BLOCK TOP ROW CANNOT BE USED THEN THE STRUCTURE LID SHALL BE ADJUSTED WITH RED SEWER BRICK (AASHTO M91, GRADE SS)



Barrel Block Catch Basin or Drain Manhole

NO SCALE

DATE: 01/16	JOB NO. —	<p style="text-align: center;">TOWN OF SALEM ENGINEERING DEPARTMENT 33 GEREMONTY DRIVE SALEM, NH 03079</p>	<p style="text-align: center;">2017 OVERLAY PROGRAM DRAINAGE DETAILS</p>
DWG. D7	SCALE: N.T.S.		



1. REFERENCE TOWN OF SALEM STANDARD SPECIFICATIONS FOR METHOD OF MEASUREMENT AND PAYMENT.
2. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REGULATIONS.
3. ALL LOCAL STATE AND FEDERAL SAFETY STANDARDS SHALL BE STRICTLY ADHERED TO.
4. TRENCH PATCH: AFTER THE BASE COURSE HAS BEEN ROLLED TO THE REQUIRED GRADE, ANY BROKEN OR IRREGULAR EDGES OF THE EXISTING PAVEMENT SHALL BE SAW CUT IN STRAIGHT LINES LEAVING A SOUND VERTICAL FACE 24-INCHES BACK FROM THE EDGE OF THE TRENCH OR OTHER EXCAVATIONS TO ACCEPT PLACEMENT OF A 24-INCH MINIMUM OVERLAP OF BITUMINOUS BASE COURSE PAVEMENT ON UNDISTURBED MATERIAL.
5. BITUMINOUS PAVEMENT, DEPTH EQUAL TO EXISTING PAVEMENT WITH 4" MIN. (1.5" OF $\frac{1}{2}$ " WEARING, 2.5" OF $\frac{3}{4}$ " BINDER). PAVEMENT SHALL CONFORM TO NHDOT ITEM 403.11.
6. UNSUITABLE MATERIAL & OVER EXCAVATION: ANY EXCAVATION OUTSIDE OF DEFINED PAY LIMIT SHALL BE STRICTLY COORDINATED AND MEASURED WITH THE ENGINEER FOR PAYMENT. ANY MATERIAL REMOVED WITHOUT PRIOR AUTHORIZATION SHALL NOT BE PAID. EXCAVATION AREAS SHALL BE BACKFILLED WITH APPROPRIATE BEDDING MATERIALS. UNSUITABLE REPLACEMENT WITHIN TRENCH PAY LIMITS ARE SUBSIDIARY.
7. MATERIAL SHALL BE REPLACED IN KIND WHENEVER POSSIBLE.
8. SUITABLE MATERIAL: IN ROADS, ROAD SHOULDERS, WALKWAYS AND TRAVELED WAYS, SUITABLE MATERIAL FOR TRENCH BACKFILL SHALL BE THE NATURAL MATERIAL EXCAVATED DURING THE COURSE OF CONSTRUCTION, SHALL EXCLUDE DEBRIS, PIECES OF PAVEMENT, ORGANIC MATTER, TOP SOIL, ALL WET OR SOFT MUCK, PEAT OR CLAY, ALL EXCAVATED LEDGE MATERIAL AND ALL ROCKS OVER SIX INCHES IN THE LARGEST DIMENSION, OR ANY MATERIAL WHICH, AS DETERMINED BY THE TOWN OF SALEM DEPARTMENT OF ENGINEERING, WILL NOT PROVIDE SUFFICIENT SUPPORT OR MAINTAIN THE COMPLETED CONSTRUCTION IN A STABLE CONDITION. SUITABLE MATERIAL SHALL BE PLACED IN 6" LIFTS AND THOROUGHLY COMPACTED.
9. IF TRENCH BOTTOM IS DISTURBED THEN CONTRACTOR SHALL COMPACT AS APPROPRIATE.
10. ENGINEER SHALL DETERMINE AT THE TIME OF CONSTRUCTION IF STONE IN SHALLOW TRENCHES SHALL BE WRAPPED IN FABRIC WHERE FIELD CONDITIONS DICTATE. FABRIC IS SUBSIDIARY TO PIPE ITEM NUMBER.

DATE: 01/16	JOB NO. —	<p style="text-align: center;">TOWN OF SALEM ENGINEERING DEPARTMENT 33 GEREMONTY DRIVE SALEM, NH 03079</p>	<p style="text-align: center;">2017 OVERLAY PROGRAM DRAINAGE DETAILS</p>
DWG. D8	SCALE: N.T.S.		