

## **ADDENDUM NO. 2**

**Issued February 28, 2018  
Bid No. 45-18**

### **CITY OF PORTSMOUTH, NH**

#### **Improvements to Maplewood Avenue & Adjacent Areas**

This Addendum forms part of the original document marked “**Contract Documents and Specifications for Improvements to Maplewood Avenue & Adjacent Areas, Bid # 45-18.**”

1. **Bid Form:**

The following modifications are **Incorporated** into the Bid Form:

- a. **Delete** Item 604.224 and **Replace** with the following Item 604.242 – DROP INLETS TYPE D-B.

This change shall be incorporated in both the Base Bid and Bid Alternate A. The corresponding revised Bid Form sheets (A-3.10 & A-3.31) are included in Attachment A.

- b. **Revise** the Quantity of Item 520.01 – CONCRETE CLASS A from 3 CY to 8 CY.

This change shall be incorporated into the Base Bid. The corresponding revised Bid Form sheet (A-3.8) is included in Attachment A.

2. **Contract Drawings:**

Plan sheets 37 and Sheet 38 shall be **replaced** with those provided in Attachment B.

3. **Item Clarifications**

Item 520.01 – Concrete Class AA shall be utilized for the construction of Concrete Headwalls, Concrete Steps and Driveways.

Item 520.2 – Concrete Class B shall be utilized for curb backing.

Item 544.1 – Reinforcing Steel (Roadway) shall be utilized for the Concrete Steps and Headwalls.

4. Contractor Questions and Responses:

- a. Per the bid items, item number 604.224 is listed as “DROP INLETS TYPE B, 4-FOOT DIAMETER”. However, the detail on sheet 84 of 184 indicates a “DI CATCH BASIN” as 2’ ID. Also, I did not come up with the same quantity for this item and there are no rim/invert dimensions to utilize in quoting. Can you clarify if I should be quoting 2’ inside diameter of 4’ inside diameter for this particular product?

Response: The relevant bid tab sheets have been revised to replace the item “604.224, DROP INLETS TYPE B, 4-FOOT DIAMETER” with item “604.242, DROP INLETS TYPE D-B”.

The detail on the plans is correct which shows the 2’ inside diameter. Please use that dimension.

As far as the quantity, we are carrying a contingency for that item in case unforeseen conflicts necessitate this smaller structure.

- b. There is a drop over structure on the plans (Drain Manhole #400 on sheet 53 of 184). I was unable to find where the existing pipe size is listed anywhere on that sheet or any of the sheets that match up to sheet 53. This will allow me to determine the diameter of the drop over structure as a diameter is not specified in the bid items. Would you have that information?

Response: Record information shows the pipe as a 24” VCP. The contractor will be required to verify pipe size prior to ordering drainage materials.

- c. I did my take off directly from the plans. When I tried to match my take off up against the two drainage tabulations sheets (37 and 38) there were several structures that were either not showing up at all on the plans, were off of the applicable plan sheet (distance-wise) or were listed as existing. There also were multiple structures on these proposed data sheets prefaced with an “E”, which I took for existing. Should I be quoting only new structures that appeared in the plan/profile sheets of the project?

Response: The assumption to quote only new structures that appear in the plan/profile sheets of the project is correct. Structures that begin with “E” are existing and will not be replaced. This information was intended for the design review rather than quantity takeoffs. Additionally, several structures were not prefaced with an “E” when they should have been. Revised sheets will be provided. Please note that the quantities listed in the bid tab are correct for the respective structures.

- d. Please clarify what is included in item 304.21, Special Pipe Bedding Material, and where you anticipate the need for the material?

Response: Item 304.21 includes wrapping and fully encapsulating the crushed stone and sewer main with filter fabric and as shown on the Sewer Trench Detail. The quantity for

Item 304.21, Special Pipe Bedding is calculated using a percentage of the proposed linear footage of sewer mainline on the Project. There is no specific area, rather the use of special pipe bedding may be required in soils such as clay, organics, silt, etc. Additional information is provided under Specification Sections 02071 Geotextile Fabrics and 02300 Earthwork.

- e. Is there a minimum depth of sewer main needed before the installation of a service chimney (item 612.81445) will be paid for?

Response: Minimum vertical height of chimney that will be measured for payment shall be three (3) vertical feet in accordance with Specification Section 01270- Measurement and Payment, 1.03 B Chimneys.

- f. Do the side roads need to be tied into the temporary water main or can they be cut & capped?

Response: Fairview Drive, McGee Drive, Leslie Drive, Fairview Avenue/Edmond Avenue need to be either back fed or connected as shown on the Contract Drawings sheets 62-64 of 184. Other associated side streets can be shut off by closing existing valves or if needed cut & capped.

- g. Do you know the depth below existing finish grade of the concrete roadbed on Cutts Street that is to be removed from station 414+50-419+50, and what the approximate thickness is?

Response: Borings and probes show 7-inches of concrete was encountered directly below the pavement in B-101 (STA 207+40 +/- on Woodbury Avenue) and 3.5 to 12-inches of concrete directly below the pavement in P-22 and P-23 (STA 415+40 to STA 419+20 +/- on Cutts Street).

- h. In the specifications section 02440 "sewer cleaning, inspection, testing and sealing" is shown as incidental to what I would assume to be pay item 612.15108 the 8" CIPP. Cleaning and inspection makes sense, no questions. However, will the testing and chemical grouting be required as incidental to the CIPP and if so what is required to be chemically grouted? The mainline to lateral connection? or is this just a generic specification and there is no expectation of chemical grouting?

Response: That is correct, Cleaning and Inspection is incidental to pay item 612.15108, 8-inch Cured in place pipe. Testing and sealing of sewer mains is not required. However, lateral connection grouting (grouting of service connections) is required. All reinstated service connections shall be sealed with grout in accordance with Section 02443, SERVICE CONNECTION REHABILITATION.

Please note that all sewer lines that are to be either rehabilitated (CIPP, open cut repair) or replaced shall have pre and post construction Closed Circuit Television (CCTV) performed.

5. Attachments: Attachment A – Bid Form Sheets A-3.8, A-3.10 & A-3.31  
Attachment B – Plan Sheet 37 & Sheet 38

All else remains unchanged.

Please acknowledge this addendum within your proposal. Failure to do so may subject a proposer to disqualification.

End of Addendum #2

# Attachment A

**SCHEDULE OF VALUES - BID FORM**  
**UNIT PRICES**

Base Bid for Maplewood Ave & Adjacent Areas Improvements  
 Portsmouth, New Hampshire

ITEM NO.	EST. QUANTITY	ITEM DESCRIPTION WITH BID PRICE IN WORDS	UNIT PRICE IN FIGURES	ITEM TOTAL IN FIGURES
304.35	390	CRUSHED GRAVEL FOR DRIVES at: Dollars Cents per cubic yard		
306.112	2,300	RECLAIMED STABILIZED BASE PROCESSED IN PLACE, 12 IN DEEP (F) at: Dollars Cents per square yard		
306.114	9,350	RECLAIMED STABILIZED BASE PROCESSED IN PLACE, 14 IN DEEP (F) at: Dollars Cents per square yard		
306.208	5,350	RECLAIMED STABILIZED BASE REMOVED AND REHANDLED, 8" DEEP (F) at: Dollars Cents per square yard		
306.36	1,525	STONE FOR RECLAIMED STABILIZED BASE at: Dollars Cents per ton		
403.11	5,500	HOT BITUMINOUS PAVEMENT, MACHINE METHOD at: Dollars Cents per ton		
403.12	350	HOT BITUMINOUS PAVEMENT, HAND METHOD at: Dollars Cents per ton		
403.6	6,000	PAVEMENT JOINT ADHESIVE at: Dollars Cents per linear foot		
403.99	1,435	TEMPORARY BITUMINOUS PAVEMENT at: Dollars Cents per ton		
410.22	1,700	ASPHALT EMULSION FOR TACK COAT at: Dollars Cents per gallon		
417	5,350	COLD PLANING BITUMINOUS SURFACES at: Dollars Cents per square yard		
520.01	8	CONCRETE CLASS AA at: Dollars Cents per cubic yard		
520.2	320	CONCRETE CLASS B at: Dollars Cents per cubic yard		

**SCHEDULE OF VALUES - BID FORM****UNIT PRICES**

Base Bid for Maplewood Ave & Adjacent Areas Improvements  
Portsmouth, New Hampshire

ITEM NO.	EST. QUANTITY	ITEM DESCRIPTION WITH BID PRICE IN WORDS	UNIT PRICE IN FIGURES	ITEM TOTAL IN FIGURES
604.124	33	CATCH BASINS TYPE B, 4-FOOT DIAMETER at: Dollars Cents per unit		
604.242	6	DROP INLETS TYPE D-B at: Dollars Cents per unit		
604.3141	17	SEWER MANHOLE 4' DIA INCL. FRAME & COVER at: Dollars Cents per unit		
604.3142	175	SEWER CONCRETE MANHOLE WALLS & CONE 4 FT. DIA. at: Dollars Cents per vertical foot		
604.324	22	DRAINAGE MANHOLES at: Dollars Cents per unit		
604.391	1	SPECIAL MANHOLES (CDS UNIT) at: Dollars Cents per unit		
604.4	45	RECONSTRUCTING/ADJUSTING CATCH BASIN & DROP INLET at: Dollars Cents per linear foot		
604.5	30	RECONSTRUCTING/ADJUSTING MANHOLES at: Dollars Cents per linear foot		
604.51	35	RECONSTRUCTING/ADJUSTING SEWER MANHOLES at: Dollars Cents per linear foot		
604.54	20	RECONSTRUCTING/ADJUSTING TELEPHONE MANHOLES at: Dollars Cents per linear foot		
604.62	3	DRAINAGE MANHOLE COVERS AND FRAMES at: Dollars Cents per each		
607.2	1	OUTLET PROTECTION FENCE at: Dollars Cents lump sum		

**SCHEDULE OF VALUES - BID FORM**  
**UNIT PRICES**

Bid Alternate B for Maplewood Ave & Adjacent Areas Improvements  
 Portsmouth, New Hampshire

ITEM NO.	EST. QUANTITY	ITEM DESCRIPTION WITH BID PRICE IN WORDS	UNIT PRICE IN FIGURES	ITEM TOTAL IN FIGURES
603.82212	950	12" PE PIPE (TYPE S) at: Dollars Cents per linear foot		
604.0007	11	POLYETHYLENE LINER at: Dollars Cents per each		
604.124	11	CATCH BASINS TYPE B, 4-FOOT DIAMETER at: Dollars Cents per unit		
604.242	1	DROP INLETS TYPE D-B at: Dollars Cents per unit		
604.3141	7	SEWER MANHOLE 4' DIA INCL. FRAME & COVER at: Dollars Cents per unit		
604.3142	55	SEWER CONCRETE MANHOLE WALLS & CONE 4 FT. DIA. at: Dollars Cents per vertical foot		
604.324	6	DRAINAGE MANHOLES at: Dollars Cents per unit		
604.4	20	RECONSTRUCTING/ADJUSTING CATCH BASIN & DROP INLET at: Dollars Cents per linear foot		
604.5	10	RECONSTRUCTING/ADJUSTING MANHOLES at: Dollars Cents per linear foot		
604.51	15	RECONSTRUCTING/ADJUSTING SEWER MANHOLES at: Dollars Cents per linear foot		
609.21	3,300	STRAIGHT GRANITE SLOPE CURB at: Dollars Cents per linear foot		



# Attachment B

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STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CB-103	MAPLEWOOD AVE	16+76 15.00 (LT)	RIM = 63.22	103 OUT = 59.07	
CB-104	MAPLEWOOD AVE	16+33 15.00 (RT)	RIM = 63.39	104 OUT = 59.27	
CB-106	MAPLEWOOD AVE	16+76 14.99 (RT)	RIM = 63.22	106 OUT = 59.54	
CB-108	MAPLEWOOD AVE	18+68 14.97 (RT)	RIM = 67.26	108 OUT = 63.20	
CB-109	MAPLEWOOD AVE	18+68 14.99 (LT)	RIM = 67.25	109 OUT = 63.20	
CB-120	FAIRVIEW DR	300+10 25.89 (LT)	RIM = 64.05	120 OUT = 59.55	
CB-122	FAIRVIEW DR	301+46 12.00 (LT)	RIM = 66.08	122 OUT = 61.08	
CB-123	FAIRVIEW DR	301+47 12.01 (RT)	RIM = 66.09	123 OUT = 62.07	
CB-127	FAIRVIEW DR	304+00 12.05 (LT)	RIM = 69.35	127 OUT = 65.73	
CB-128	FAIRVIEW DR	304+08 11.98 (RT)	RIM = 69.39	129 IN = 66.32 128 OUT = 66.07	
CB-1181	WOODBURY AVE	207+17 16.93 (LT)	RIM = 69.19	181 OUT = 64.73	
CB-1191	WOODBURY AVE	207+43 21.44 (RT)	RIM = 68.78	191 OUT = 64.73	
DI-129	FAIRVIEW DR	305+01 22.38 (RT)	RIM = 68.41	129 OUT = 67.91	
DMH-102	MAPLEWOOD AVE	16+44 6.29 (LT)	RIM = 63.50	110 IN = 57.74 105 IN = 58.87 103 IN = 58.70 104 IN = 59.07 102 OUT = 57.64	
DMH-105	MAPLEWOOD AVE	16+68 4.60 (RT)	RIM = 63.45	107 IN = 59.28 106 IN = 59.41 105 OUT = 59.18	
DMH-107	MAPLEWOOD AVE	18+57 5.00 (RT)	RIM = 66.96	108 IN = 63.04 109 IN = 62.99 107 OUT = 61.17	
DMH-111	FAIRVIEW DR	300+36 0.23 (RT)	RIM = 64.69	121 IN = 60.22 121 (1) OUT = 60.12	
DMH-118	MAPLEWOOD AVE	15+24 5.41 (LT)	RIM = 64.28	120 IN = 59.34 121 (1) IN = 59.88 110 OUT = 59.09	
DMH-121	FAIRVIEW DR	301+39 1.59 (RT)	RIM = 66.22	124 IN = 61.71 122 IN = 60.96 123 IN = 62.04 121 OUT = 60.64	
DMH-124	FAIRVIEW DR	302+22 3.14 (RT)	RIM = 66.91	125 IN = 62.59 171 IN = 62.59 124 OUT = 62.49	
DMH-126	FAIRVIEW DR	303+80 16.01 (RT)	RIM = 69.79	128 IN = 65.76 127 IN = 65.56 125 OUT = 65.31	
DMH-1171	WOODBURY AVE	207+38 23.52 (LT)	RIM = 69.99	191 IN = 64.50 181 IN = 64.62 171 OUT = 64.25	
OUTFALL-101	MAPLEWOOD AVE	16+41 128.13 (LT)	RIM = 59.58	102 IN = 57.00	

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CB-111	MAPLEWOOD AVE	14+78 15.00 (LT)	RIM = 64.51	111 OUT = 60.44	
CB-116	MAPLEWOOD AVE	11+39 15.51 (LT)	RIM = 70.49	116 OUT = 66.37	
CB-117	MAPLEWOOD AVE	11+39 15.91 (RT)	RIM = 70.48	130 IN = 65.92 117 OUT = 65.92	
CB-119	FAIRVIEW DR	300+24 20.41 (RT)	RIM = 64.79	119 OUT = 60.80	
DI-130	MAPLEWOOD AVE	11+82 20.20 (RT)	RIM = 69.84	130 OUT = 67.34	
DMH-110	MAPLEWOOD AVE	14+70 11.00 (LT)	RIM = 64.66	111 IN = 60.27 119 IN = 60.49 112 OUT = 60.27	
DMH-112	MAPLEWOOD AVE	12+90 10.68 (LT)	RIM = 67.07	115 IN = 62.51 112 IN = 59.62 113 OUT = 59.37	
DMH-115	MAPLEWOOD AVE	11+51 11.77 (LT)	RIM = 70.21	116 IN = 65.71 117 IN = 65.62 115 OUT = 64.51	

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CB-202	MAPLEWOOD AVE	41+60 15.34 (RT)	RIM = 35.08	202 OUT = 31.08	
CB-203	MAPLEWOOD AVE	34+82 18.59 (RT)	RIM = 53.47	203 OUT = 49.42	
CB-204	MAPLEWOOD AVE	34+82 18.60 (LT)	RIM = 53.47	204 OUT = 48.69	
CB-206	MAPLEWOOD AVE	32+03 15.56 (LT)	RIM = 54.69	206 OUT = 50.73	
CB-207	MAPLEWOOD AVE	32+03 15.00 (RT)	RIM = 54.70	207 OUT = 50.75	
CB-209	MAPLEWOOD AVE	30+67 15.00 (LT)	RIM = 55.86	209 OUT = 51.86	
CB-210	MAPLEWOOD AVE	30+59 18.22 (RT)	RIM = 56.36	210 OUT = 52.36	
CB-212	MAPLEWOOD AVE	27+88 14.97 (LT)	RIM = 64.67	212 OUT = 60.00	
CB-213	MAPLEWOOD AVE	27+88 14.93 (RT)	RIM = 64.67	213 OUT = 60.49	
CB-216	MAPLEWOOD AVE	25+28 15.00 (LT)	RIM = 70.42	215 OUT = 66.34	
CB-217	MAPLEWOOD AVE	25+28 14.97 (RT)	RIM = 70.42	216 OUT = 66.35	
DMH-205	MAPLEWOOD AVE	32+16 3.03 (LT)	RIM = 54.99	208 IN = 49.87 206 IN = 50.55 207 IN = 50.55 205 OUT = 49.62	
DMH-208	MAPLEWOOD AVE	30+72 5.41 (LT)	RIM = 55.96	211 IN = 51.56 209 IN = 51.77 210 IN = 52.11 208 OUT = 51.31	
DMH-211	MAPLEWOOD AVE	27+94 4.37 (LT)	RIM = 64.66	213 IN = 60.29 212 IN = 59.88 214 (1) IN = 59.98 211 OUT = 59.73	
DMH-214	MAPLEWOOD AVE	26+95 3.99 (LT)	RIM = 67.83	214 IN = 60.97 214 (1) OUT = 60.97	
DMH-215	MAPLEWOOD AVE	25+37 3.03 (LT)	RIM = 70.54	215 IN = 66.28 216 IN = 66.27 214 OUT = 62.55	
DMH-218	MAPLEWOOD AVE	35+53 13.89 (RT)	RIM = 51.64	7 IN = 44.60 7 (1) OUT = 44.60	
E-CB-9	MAPLEWOOD AVE	37+59 20.02 (RT)	RIM = 43.38	7 (1) IN = 35.77 12 IN = 35.47 9 OUT = 35.42	
E-CB-10	MAPLEWOOD AVE	37+61 21.95 (LT)	RIM = 42.77	12 OUT = 35.57	
E-CB-11	MAPLEWOOD AVE	40+10 19.27 (RT)	RIM = 37.50	9 IN = 25.35 (9) IN = 25.35 (7) OUT = 25.35	

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
E-CB-12	MAPLEWOOD AVE	41+50 14.11 (RT)	RIM = 35.24	(8) IN = 28.92 202 IN = 31.00 (9) OUT = 28.92	
E-CB-13	MAPLEWOOD AVE	41+50 16.86 (LT)	RIM = 35.18	(8) OUT = 30.93	
E-DMH-1C	CUTTS & CENTRAL AVE	405+41 130.75 (LT)	RIM = 2.92	(7) IN = -2.00 118 OUT = 8.00	
E-DMH-7	MAPLEWOOD AVE	34+94 13.35 (RT)	RIM = 53.40	205 IN = 47.40 8 IN = 47.45 203 IN = 49.32 7 OUT = 47.15	
E-DMH-8	MAPLEWOOD AVE	34+95 18.63 (LT)	RIM = 53.28	204 IN = 48.60 8 OUT = 48.35	
E-DMH-18	CUTTS & CENTRAL AVE	405+01 13.21 (RT)	RIM = 19.67	118 IN = 4.70 119 OUT = 4.60	
E-DMH-20	CUTTS & CENTRAL AVE	413+83 25.43 (RT)	RIM = 18.13	119 IN = 3.10 120 OUT = 3.10	

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CB-301	CUTTS & CENTRAL AVE	419+75 14.19 (LT)	RIM = 30.00	123 OUT = 26.00	
CB-302	CUTTS & CENTRAL AVE	419+67 15.09 (RT)	RIM = 30.23	302 OUT = 25.82	
CB-304	MAPLEWOOD AVE	45+75 14.99 (LT)	RIM = 32.60	304 OUT = 28.59	
CB-306	MAPLEWOOD AVE	44+77 26.83 (LT)	RIM = 33.59	136 OUT = 29.61	
CB-308	MAPLEWOOD AVE	44+42 25.00 (LT)	RIM = 33.58	135 OUT = 29.61	
CB-309	MAPLEWOOD AVE	44+17 28.12 (RT)	RIM = 33.55	134 OUT = 29.51	
CB-311	MAPLEWOOD AVE	43+84 16.94 (LT)	RIM = 33.38	306 OUT = 29.36	
CB-312	MAPLEWOOD AVE	43+84 18.81 (RT)	RIM = 33.34	307 OUT = 29.36	
DMH-300	MAPLEWOOD AVE	48+17 2.07 (RT)	RIM = 29.02	303 IN = 22.71 302 IN = 24.95 123 IN = 24.95 301 OUT = 22.46	
DMH-303	MAPLEWOOD AVE	45+85 0.12 (RT)	RIM = 32.84	305 (1) IN = 25.02 304 IN = 28.43 303 OUT = 24.77	
DMH-305	MAPLEWOOD AVE	44+81 1.08 (LT)	RIM = 33.45	305 IN = 26.04 136 IN = 28.10 305 (1) OUT = 26.04	
DMH-307	MAPLEWOOD AVE	44+40 1.51 (LT)	RIM = 33.76	310 IN = 26.44 134 IN = 29.34 135 IN = 29.50 305 OUT = 26.44	
DMH-310	MAPLEWOOD AVE	43+84 1.43 (LT)	RIM = 33.69	306 IN = 29.17 307 IN = 29.17 310 OUT = 26.98	
E-CB-1	MAPLEWOOD AVE	48+91 17.98 (RT)	RIM = 27.29	1 OUT = 24.60	
E-CB-2	MAPLEWOOD AVE	49+07 16.32 (LT)	RIM = 28.44	3 IN = 25.61 2 OUT = 25.61	
E-CB-3	MAPLEWOOD AVE	49+37 15.77 (LT)	RIM = 28.59	3 OUT = 25.80	
E-CB-6	MAPLEWOOD AVE	51+54 13.76 (RT)	RIM = 36.42	15 IN = 18.71 6 OUT = 17.43	
E-CB-15	MAPLEWOOD AVE	49+50 12.57 (RT)	RIM = 28.32	1A IN = 20.19 15 OUT = 19.85	
E-CB-70	MAPLEWOOD AVE	51+58 53.41 (RT)	RIM = 15.90	6 IN = 13.96 70 OUT = 13.77	
E-CB-80	MAPLEWOOD AVE	51+77 54.99 (RT)	RIM = 15.15	70 IN = 13.21	
E-DMH-1A	MAPLEWOOD AVE	49+06 0.13 (LT)	RIM = 28.33	301 IN = 20.80 2 IN = 24.85 1 IN = 24.47 1A OUT = 20.61	

**GPI** Greenman-Pedersen, Inc.  
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PREPARED FOR  
DEPARTMENT OF PUBLIC  
WORKS  
CITY OF PORTSMOUTH  
680 PEVERLY HILL ROAD  
PORTSMOUTH, NH 03801

**IMPROVEMENTS TO MAPLEWOOD  
AVENUE & ADJACENT AREAS  
MAPLEWOOD AVENUE  
PORTSMOUTH, NH**

REVISIONS		
NO.	CONTRACTOR QUES. / REVISION	DATE
1	CONTRACTOR QUES.	2/28/17
	REVISION	DATE
2/5/2018		
DRAWN/DESIGN BY	CHECKED BY	
CLS/TLT	JPJ/LES	

**PROPOSED  
DRAIN DATA**

SCALE: HORIZ: 1" = 20'  
VERT: 1" = 4'

2015086.00

**37 OF 184**

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CB-20	LESLIE DR	600+35 18.98 (RT)	RIM = 20.67	131 OUT = 16.62	
CB-21	CUTTS & CENTRAL AVE	414+15 20.92 (LT)	RIM = 19.07	132 OUT = 15.10	
CB-23	LESLIE DR	601+83 13.00 (LT)	RIM = 32.74	126 OUT = 29.02	
CB-24	LESLIE DR	601+83 12.95 (RT)	RIM = 32.91	124 OUT = 28.94	
CB-401	CUTTS & CENTRAL AVE	413+40 12.99 (RT)	RIM = 18.74	122 OUT = 14.74	
CB-402	CUTTS & CENTRAL AVE	413+40 13.00 (LT)	RIM = 18.68	402 OUT = 14.68	
CB-404	CUTTS & CENTRAL AVE	413+87 13.57 (LT)	RIM = 18.84	404 OUT = 14.31	
CB-405	CUTTS & CENTRAL AVE	413+87 13.01 (RT)	RIM = 18.31	405 OUT = 14.31	
CB-407	CUTTS & CENTRAL AVE	415+32 13.00 (LT)	RIM = 25.04	407 OUT = 21.04	
CB-408	CUTTS & CENTRAL AVE	415+32 13.00 (RT)	RIM = 24.91	408 OUT = 21.04	
CB-409	BEECHWOOD ST	502+32 12.00 (LT)	RIM = 17.24	409 OUT = 11.61	
CB-410	BEECHWOOD ST	502+37 12.00 (RT)	RIM = 17.44	410 OUT = 11.91	
CB-412	BEECHWOOD ST	501+58 12.00 (LT)	RIM = 15.39	411 OUT = 11.38	
CB-413	BEECHWOOD ST	501+56 11.99 (RT)	RIM = 15.39	412 OUT = 11.75	
CB-415	CUTTS & CENTRAL AVE	406+48 12.00 (RT)	RIM = 23.62	415 OUT = 19.29	
CB-417	CUTTS & CENTRAL AVE	404+73 23.20 (RT)	RIM = 18.74	417 OUT = 14.84	
CB-418	CUTTS & CENTRAL AVE	404+93 6.22 (LT)	RIM = 20.01	422 IN = 15.80 418 OUT = 15.92	
CB-420	CUTTS & CENTRAL AVE	402+51 18.27 (RT)	RIM = 22.09	420 OUT = 17.62	
CB-421	CUTTS & CENTRAL AVE	402+38 11.99 (LT)	RIM = 23.14	E-37 IN = 19.38 421 OUT = 19.05	
CB-422	CUTTS & CENTRAL AVE	402+34 21.50 (LT)	RIM = 23.63	E-37 OUT = 19.43	
DI-422	CUTTS & CENTRAL AVE	404+95 12.00 (LT)	RIM = 19.85	422 OUT = 15.81	
DMH-22	LESLIE DR	601+72 7.11 (LT)	RIM = 31.85	124 IN = 28.03 126 IN = 28.52 125 OUT = 26.00	
DMH-400	CUTTS & CENTRAL AVE	413+62 5.37 (LT)	RIM = 18.47	E-33.2 IN = 8.20 402 IN = 14.22 403 IN = 13.39 122 IN = 14.17 114 OUT = 8.10	DOGHOUSE STRUCTURE
DMH-403	CUTTS & CENTRAL AVE	413+87 5.00 (LT)	RIM = 18.94	404 IN = 14.14 405 IN = 13.95 406 IN = 14.25 403 OUT = 13.89	
DMH-406	CUTTS & CENTRAL AVE	415+21 4.00 (LT)	RIM = 24.48	407 IN = 20.90 408 IN = 20.84 406 OUT = 20.59	
DMH-411	BEECHWOOD ST	502+04 10.56 (RT)	RIM = 16.11	(107) IN = 11.01 412 IN = 11.25 410 IN = 11.25 107 OUT = 11.09	
DMH-413	CUTTS & CENTRAL AVE	405+14 6.12 (RT)	RIM = 20.01	416 IN = 13.33 414 IN = 14.74 E28 IN = 13.23 85 OUT = 13.03	
DMH-414	CUTTS & CENTRAL AVE	406+40 4.47 (RT)	RIM = 23.69	415 IN = 19.24 414 OUT = 19.14	

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
DMH-416	CUTTS & CENTRAL AVE	404+92 6.15 (RT)	RIM = 19.95	419 IN = 13.45 418 IN = 15.68 417 IN = 14.59 416 OUT = 13.45	
DMH-419	CUTTS & CENTRAL AVE	402+47 6.48 (RT)	RIM = 22.90	421 IN = 18.96 420 IN = 17.52 419 OUT = 15.40	
E-CB-28	CUTTS & CENTRAL AVE	405+42 22.99 (LT)	RIM = 18.36	E28 OUT = 15.95	
E-CB-32	BEECHWOOD ST	502+02 16.71 (RT)	RIM = 15.37	(107) OUT = 11.10	
E-CB-33	CUTTS & CENTRAL AVE	413+70 13.76 (RT)	RIM = 17.60		
E-DMH	CUTTS & CENTRAL AVE	413+78 112.06 (RT)	RIM = 15.46	108 IN = 9.30 85 IN = 9.29 121 OUT = 9.29	
E-DMH-14	CUTTS & CENTRAL AVE	414+25 36.64 (LT)	RIM = 20.25	125 IN = 13.70 131 IN = 16.10 132 IN = 15.02	
E-DMH-19	BEECHWOOD ST	502+11 14.32 (LT)	RIM = 18.19	107 IN = 10.83 409 IN = 10.84 411 IN = 10.84 108 OUT = 10.59	
E-DMH-33.1	CUTTS & CENTRAL AVE	413+72 25.56 (RT)	RIM = 18.52	121 IN = 8.50 E-33.2 OUT = 8.40	

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CB-503	LESLIE DR	608+11 13.00 (RT)	RIM = 22.08	140 OUT = 18.19	
CB-506	LESLIE DR	609+95 13.00 (RT)	RIM = 26.40	504 OUT = 22.53	
CB-507	LESLIE DR	610+02 12.42 (LT)	RIM = 26.66	503 OUT = 22.83	
CB-509	LESLIE DR	612+65 14.05 (RT)	RIM = 38.24	507 OUT = 34.27	
CB-510	LESLIE DR	612+65 12.98 (LT)	RIM = 38.27	508 OUT = 34.27	
CB-512	LESLIE DR	605+85 13.00 (RT)	RIM = 26.22	141 OUT = 22.12	
CB-513	LESLIE DR	605+85 13.00 (LT)	RIM = 26.22	137 OUT = 22.16	
DMH-502	LESLIE DR	608+11 1.00 (LT)	RIM = 22.31	138 IN = 16.50 140 IN = 18.07 502 IN = 16.75 139 OUT = 16.40	
DMH-504	LESLIE DR	609+59 7.38 (RT)	RIM = 25.51	129 IN = 21.29 502 OUT = 19.50	
DMH-505	LESLIE DR	609+94 6.44 (LT)	RIM = 26.51	506 IN = 22.82 503 IN = 22.61 504 IN = 22.34 129 OUT = 22.39	
DMH-508	LESLIE DR	612+49 6.20 (RT)	RIM = 37.56	508 IN = 33.74 507 IN = 33.74 506 OUT = 33.15	
DMH-511	LESLIE DR	605+96 9.80 (RT)	RIM = 26.02	137 IN = 21.82 141 IN = 25.47 138 OUT = 21.72	
E-DBC -23	LESLIE DR	608+09 13.77 (LT)	RIM = 25.44	139 IN = 21.55	

### SEWER MANHOLE SCHEDULE

MANHOLE #	STREET	4' DIA. (VF)	6" DROP (VF)	8" DROP (VF)
SMH 1	MAPLEWOOD	7.8		
SMH 764	MAPLEWOOD	9.1		2.9
SMH 2	MAPLEWOOD	6.8		
SMH 3	MAPLEWOOD	11.7		
SMH 4	MAPLEWOOD	7.7	7.3	
SMH 5	MAPLEWOOD	6.1		
SMH 6	MAPLEWOOD	8.0		
SMH 761	WOODBURY	15.3		
SMH 7	WOODBURY	15.8		10 (TBD)
SMH 763	FAIRVIEW	10.9		
SMH 762	FAIRVIEW	12.1		2
SMH 8	FAIRVIEW	10.2		
SMH 9	FAIRVIEW	9.9		
SMH 10	FAIRVIEW	9.9		
SMH 11	FAIRVIEW	10.0		
SMH 12	CENTRAL	7.5		
SMH 1032	CENTRAL	6.7		
SMH 13	CUTTS	6.9		
SMH 14	CUTTS	6.8		
SMH 15	LESLIE	9.3		
SMH 16	LESLIE	13.5 (TBD)		
SMH 73	LESLIE			2.4
SMH 1025	LESLIE	6.7		
SMH 2364	LESLIE	7.0		
SMH 17	LESLIE	6.7		
SMH 1024	LESLIE	5.6		
SMH 1028	LESLIE	4.9		
SMH 18	FAIRVIEW	8.9	4 (TBD)	
SMH 709	WOODBURY	13.9		
<b>SUB-TOTAL:</b>		<b>255.7</b>	<b>11.3</b>	<b>17.3</b>
ROUNDING:		260.0	25.0	20.0
<b>TOTAL ESTIMATED QUANTITY:</b>		<b>260.0</b>	<b>25.0</b>	<b>20.0</b>



PREPARED FOR  
DEPARTMENT OF PUBLIC  
WORKS  
CITY OF PORTSMOUTH  
680 PEVERLY HILL ROAD  
PORTSMOUTH, NH 03801

**IMPROVEMENTS TO MAPLEWOOD  
AVENUE & ADJACENT AREAS  
MAPLEWOOD AVENUE  
PORTSMOUTH, NH**

REVISIONS		
NO.	CONTRACTOR QUES. / REVISION	DATE
1		2/28/17
2/5/2018		
DRAWN/DESIGN BY: CLS/TLT		CHECKED BY: JJP/LES