

LEGEND		
DESCRIPTION	EXISTING	PROPOSED REHABILITATIONS
SANITARY/COMBINED SEWER	→	○→
SANITARY/COMBINED SEWER MANHOLE	SS01234 ○	SS01234 △
SURFACE DRAIN MANHOLE	DS01234 ○	DS01234 △
SURFACE DRAIN	---→---	○---→---
ABANDONED SANITARY/SURFACE/COMBINED SEWER MANHOLE	○	
TEMPORARY EASEMENT	---	
BUILDING	■	
RAILROAD	====	
MARSH/WOODED MARSH/WOODED AREA	▨	

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL CALL DIG SAFE AT 811 OR 1-888-344-7233 AT LEAST 72 HOURS, SATURDAYS, SUNDAYS, AND HOLIDAYS EXCLUDED, PRIOR TO EXCAVATING AT ANY LOCATION. A COPY OF THE DIG SAFE PROJECT REFERENCE NUMBER(S) SHALL BE GIVEN TO THE OWNER PRIOR TO EXCAVATION.
2. LOCATIONS OF EXISTING PIPES, CONDUITS, UTILITIES, FOUNDATIONS AND OTHER UNDERGROUND OBJECTS ARE NOT WARRANTED TO BE CORRECT AND THE CONTRACTOR SHALL HAVE NO CLAIM ON THAT ACCOUNT SHOULD THEY BE OTHER THAN SHOWN.
3. STONE WALLS, FENCES, MAIL BOXES, SIGNS, CURBS, LIGHT POLES, ETC. SHALL BE REMOVED AND REPLACED AS NECESSARY TO PERFORM THE WORK. UNLESS OTHERWISE INDICATED, ALL SUCH WORK SHALL BE INCIDENTAL TO CONSTRUCTION OF THE PROJECT.
4. ALL PAVEMENT DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS.
5. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND PAYMENT LIMITS SHALL BE RESTORED AT NO ADDITIONAL COST TO THE OWNER.
6. THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES, OR EQUIPMENT ON DRAINAGE STRUCTURES OR WITHIN 100 FEET OF WETLANDS.
7. IN PAVED AREAS, THE TOP OF THE MANHOLE COVER SHALL BE SET FLUSH WITH THE PAVED SURFACE. IN OTHER AREAS, THE TOP OF THE COVER SHALL EXTEND 6 INCHES ABOVE FINISHED GRADE, OR AS SHOWN ON THE DRAWINGS, OR AS REQUIRED BY THE ENGINEER.
8. THE CONTRACTOR MUST GIVE THE ENGINEER AT LEAST 10 DAYS' NOTICE PRIOR TO PERFORMING ANY WORK IN WETLANDS.
9. EXISTING UTILITY INFORMATION WAS TAKEN FROM CITY RECORD DRAWINGS. THE CONTRACTOR SHALL VISIT THE PREMISES TO FAMILIARIZE HIMSELF THOROUGHLY WITH ALL THE DETAILS OF THE WORK AND OF WORKING CONDITIONS, TO VERIFY ALL DIMENSIONS IN THE FIELD, AND TO ADVISE THE ENGINEER IN WRITING OF ANY DISCREPANCY BEFORE PERFORMING ANY WORK. THE CONTRACTOR SHALL CONSULT OFFICIAL RECORDS OF EXISTING UTILITIES, BOTH SURFACE AND SUBSURFACE, AND THEIR CONNECTIONS, AND SHALL FULLY INFORM HIMSELF OF ALL EXISTING CONDITIONS AND LIMITATIONS AS THEY APPLY TO THE WORK.
10. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF SEWER SERVICES AS NECESSARY TO PERFORM THE WORK.
11. THE CONTRACTOR SHALL MAINTAIN LOCAL TRAFFIC TO ALL STREETS THROUGHOUT THE DURATION OF THE PROJECT.
12. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF MASSACHUSETTS GENERAL LAW CHAPTER 82A, TRENCH EXCAVATION AND SAFETY REQUIREMENTS, TO PREVENT THE GENERAL PUBLIC FROM UNAUTHORIZED ACCESS TO UNATTENDED TRENCHES.
13. CONTRACTOR SHALL MAINTAIN EXISTING FLOWS IN THE SYSTEM, BYPASSING AS NECESSARY TO PREVENT SURCHARGING, AS APPROVED OR REQUIRED BY THE ENGINEER.
14. PLANS ONLY ILLUSTRATE APPROXIMATE LOCATIONS OF MANHOLES AND PIPE SEGMENTS. REFER TO THE TABLES ON EACH SHEET FOR THE APPROXIMATE LENGTH OF EACH PIPE SEGMENT AND THE APPROXIMATE STATION NUMBER OF REHABILITATIONS. SEE TELEVISION INSPECTION LOGS, WHICH SHALL BE FURNISHED UPON REQUEST, FOR MORE INFORMATION. THE LOCATIONS OF MANHOLES AND PIPE SEGMENTS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
15. EXCAVATION SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE MASSACHUSETTS STANDARDS AND SPECIFICATIONS.
16. IN SITUATIONS WHERE WORK IS LOCATED OFF A PUBLIC STREET, THE 'STREET / LOCATION' FIELD OF THE TABLE INDICATES THE CLOSEST STREET.
17. MANHOLES AND LINE SEGMENTS WITH WORK TO BE PERFORMED ON ARE INDICATED ON PLANS ACCORDING TO LEGEND. WHERE THERE IS A DISCREPANCY BETWEEN THE PLANS AND THE WORK TABLES, THE WORK TABLES SHALL CONTROL.
18. WATER SERVICE CONNECTIONS AND GAS SERVICE CONNECTIONS HAVE NOT BEEN INCLUDED ON THE PLAN VIEWS OR PROFILE VIEWS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF WATER SERVICE CONNECTIONS, GAS SERVICE CONNECTIONS AND OTHER UTILITIES AS NECESSARY TO PERFORM THE WORK.
19. NO CONSTRUCTION WORK SHALL BE ALLOWED ON SATURDAYS, SUNDAYS, OR HOLIDAYS WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER AND APPROVAL FROM THE ENGINEER.
20. ALL STREET EXCAVATIONS SHALL BE COMPLETELY CLOSED AT THE END OF EACH WORKING DAY BY BACKFILLING OR COVERING WITH STEEL PLATES.
21. CLEARING AND GRUBBING SHALL BE PERFORMED ONLY IN LOCATIONS WITHIN THE LIMITS OF WORK SHOWN ON THE PLAN.
22. CONTRACTOR SHALL DEVELOP AND IMPLEMENT A COVID-19 HEALTH AND SAFETY PLAN IN ACCORDANCE WITH THE COMMONWEALTH OF MASSACHUSETTS COVID-19 GUIDELINES AND PROCEDURES FOR ALL CONSTRUCTION SITES AND WORKERS AT ALL PUBLIC WORK. THE GUIDELINES ARE INCLUDED IN APPENDIX C OF THE SPECIFICATIONS.

ABBREVIATIONS

AC	ASBESTOS CEMENT
APPROX.	APPROXIMATE
AVE	AVENUE
BLDG.	BUILDING
CAS	CAST IRON
⊕	CENTERLINE
CONC	CONCRETE (NON-REINFORCED)
CDF	CONTROLLED DENSITY FILL
CT	COURT
DI	DUCTILE IRON
DIA.	DIAMETER
DP	DIAMETER OF PIPE
DPW&P	DEPARTMENT OF PUBLIC WORKS AND PARKS
EA	EACH
IN	INCH
L	LENGTH
LF	LINEAR FEET
LN	LANE
MH	MANHOLE
MIN.	MINIMUM
NA	NOT APPLICABLE
NO.	NUMBER
NTS	NOT TO SCALE
PKWY	PARKWAY
PS	PUMP STATION
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REQ'D	REQUIRED
ST	STREET
STA	STATION
SVC	SERVICE CONNECTION
TEMP	TEMPORARY
TYP	TYPICAL
VF	VERTICAL FEET
VC	VITRIFIED CLAY
W	WIDTH

Project:
CITY OF WORCESTER,
MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS
AND PARKS



VARIOUS STREETS 2020
SANITARY, SURFACE,
AND COMBINED SEWER
REHABILITATION PROJECT

CONTRACT NO. S20-4
BID NO. 7459-W1

Weston & Sampson
Weston & Sampson Engineers, Inc.
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Worcester, MA 01608
978.532.1900 800.SAMPSON
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Consultants:



Don G. Gallucci
9/31/2020

Revisions:

No.	Date	Description

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**ABBREVIATIONS,
NOTES,
AND LEGEND**

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PLANS AND TABLES
 Sheet Number:
C100

CEMENTITIOUS LINING AND EXTERIOR SEALING OF MANHOLES

MH	STREET/LOCATION	MH TYPE	MATERIAL	APPROX. MH DEPTH (VF)
SS04355	CHANDLER STREET	SANITARY	BRICK	9.0
SS04641	CURTIS PARKWAY ROW	SANITARY	BRICK	15.3
SS03329	DEWEY STREET	SANITARY	BRICK	11.9
SS09521	SOUTH FLAGG STREET	SANITARY	BRICK	8.5
SS09522	SOUTH FLAGG STREET	SANITARY	BRICK	8.5
SS10073	SOUTH FLAGG STREET	SANITARY	BRICK	6.5
SS10074	SOUTH FLAGG STREET ROW	SANITARY	BRICK	11.0
SS12994	SOUTH FLAGG STREET ROW	TWIN	BRICK	6.0
SS12996	SOUTH FLAGG STREET ROW	TWIN	BRICK	8.2
SS04348	STAFFORD STREET ROW	SANITARY	BRICK	12.5
SS04640	STAFFORD STREET ROW	SANITARY	BRICK	14.1
SS10627	STAFFORD STREET ROW	SANITARY	BRICK	10.7
SS14073	STAFFORD STREET ROW	SANITARY	BRICK	12.4
SS13065	UNDERWOOD STREET	TWIN	BRICK	5.9
SS14971	UNDERWOOD STREET	TWIN	BRICK	6.0
SS17078	UNDERWOOD STREET	TWIN	BRICK	7.5
SS17227	UNDERWOOD STREET	TWIN	BRICK	8.2
SS07206	WESTVIEW ROAD	TWIN	BRICK	9.5
SS12997	WESTVIEW ROAD	TWIN	BRICK	7.2

APPROX. TOTAL (VF) = 178.9

SEWER MAINLINE CHEMICAL ROOT TREATMENT

ASSET ID	MH	TO MH	STREET/LOCATION	PIPE TYPE	PIPE DIA. (IN)	MATERIAL	APPROX. MH TO MH LENGTH (LF)
SM02895	SS09521	SS09522	SOUTH FLAGG STREET	SANITARY	8	VC	11
SM03017	SS10073	SS10074	SOUTH FLAGG STREET ROW	SANITARY	8	VC	74
SM11394	SS12994	SS10073	SOUTH FLAGG STREET ROW	SANITARY	8	VC	76
SM12124	SS14971	SS13065	UNDERWOOD STREET	SANITARY	8	VC	127

APPROX. TOTAL (LF) = 288
 APPROX. SUBTOTAL 8-INCH (LF) = 288

CUT PROTRUDING SERVICE CONNECTION

ASSET ID	MH	TO MH	STREET/LOCATION	PIPE TYPE	PIPE DIA. (IN)	MATERIAL	APPROX. MH TO MH LENGTH (LF)	APPROX. STATION
SM12124	SS14971	SS13065	UNDERWOOD STREET	SANITARY	8	VC	127	1+16

TOTAL SVC (EA) = 1

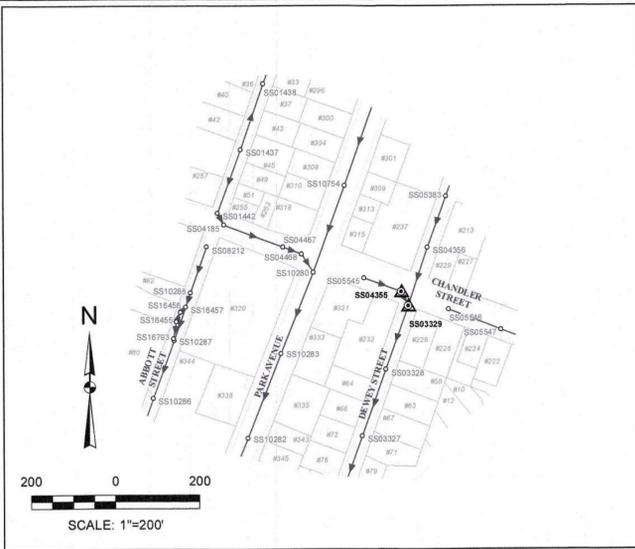
OPEN CUT POINT REPAIR

ASSET ID	MH	TO MH	STREET/LOCATION	PIPE DIA. (IN)	MATERIAL	PIPE TYPE	APPROX. MH TO MH LENGTH (LF)	APPROX. US MH DEPTH (VF)	APPROX. DS MH DEPTH (VF)	APPROX. STATION	TO APPROX. STATION	REPLACE WYE CONNECTION (APPROX. STA)
SM09978	SS04348	SS10627	STAFFORD STREET ROW	8	VCP	GRAVITY	182	12.5	10.7	0+00	0+25	-

APPROX. TOTAL (LF) = 25 WYE (EA) = 0

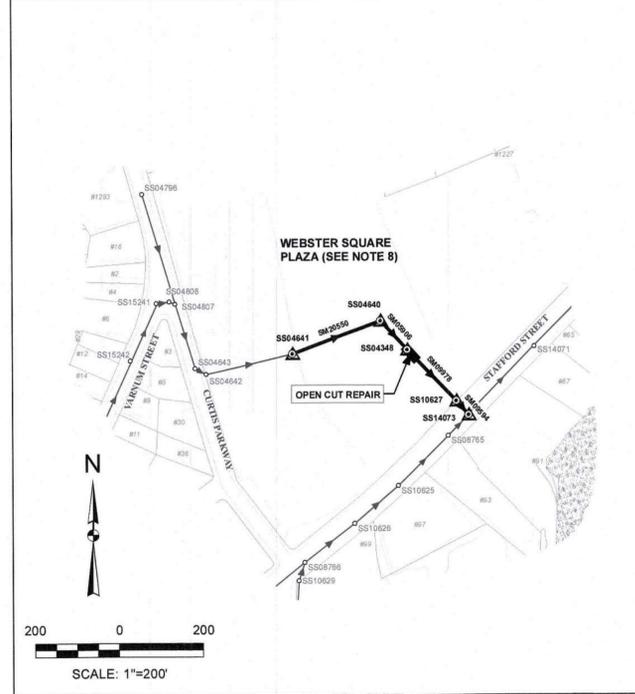


SCALE: 1"=100'

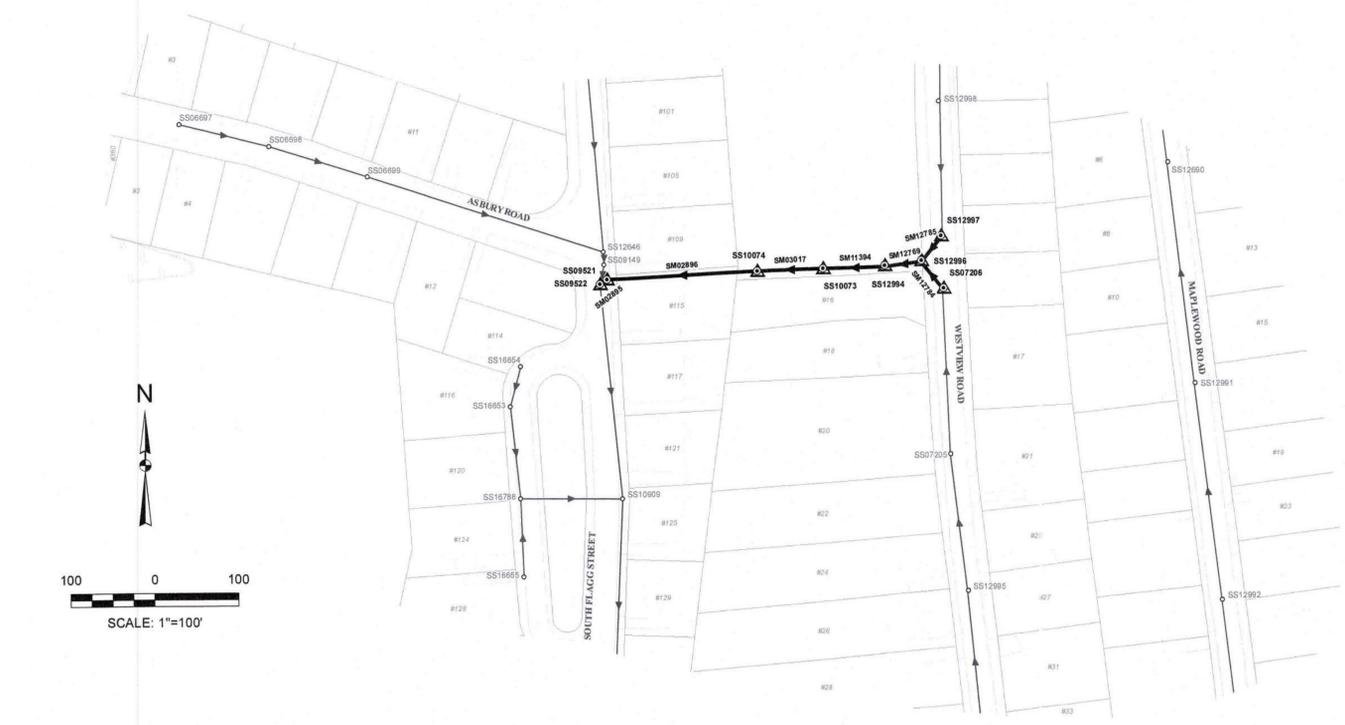


SCALE: 1"=200'

- NOTES:**
- CONTRACTOR SHALL VERIFY ALL ACTIVE SERVICE CONNECTION LOCATIONS DURING INITIAL TELEVISION INSPECTION WITH DYE TESTING. SERVICE CONNECTION LOCATIONS WERE OBTAINED FROM AVAILABLE TELEVISION INSPECTIONS AND MAY NOT BE ACCURATE.
 - STREETS WITH RIGHT OF WAY (ROW) DESIGNATION INDICATE THAT WORK IS LOCATED IN AN EASEMENT.
 - SEE SUPPLEMENT TO SPECIFICATIONS FOR REQUIREMENTS OF WORKING WITHIN EASEMENTS.
 - CLEARING AND GRUBBING MAY BE REQUIRED TO ACCESS MANHOLE IN EASEMENTS. CLEARING AND GRUBBING SHALL BE COMPLETED AS SPECIFIED IN SUPPLEMENT TO SPECIFICATION, SECTION 02230 - CLEARING AND GRUBBING.
 - UPON COMPLETION OF WORK IN EASEMENTS, CONTRACTOR SHALL RESTORE THE AREA TO ITS ORIGINAL CONDITION, AT NO ADDITIONAL COST TO THE OWNER.
 - MANHOLE DEPTHS WERE OBTAINED FROM AVAILABLE RECORD INFORMATION. CONTRACTOR SHALL CONFIRM IN FIELD PRIOR TO BIDDING.
 - MANHOLE MATERIAL IS ASSUMED TO BE BRICK UNLESS OTHERWISE NOTED.
 - CONTRACTOR SHALL PERFORM THE WORK IN WEBSTER SQUARE PLAZA DURING OFF-BUSINESS HOURS OR AS APPROVED BY THE CITY.
 - CONTRACTOR SHALL PERFORM THE WORK AT THE INTERSECTION OF CHANDLER STREET DURING OFF-BUSINESS HOURS OR AS APPROVED BY THE CITY.



SCALE: 1"=200'



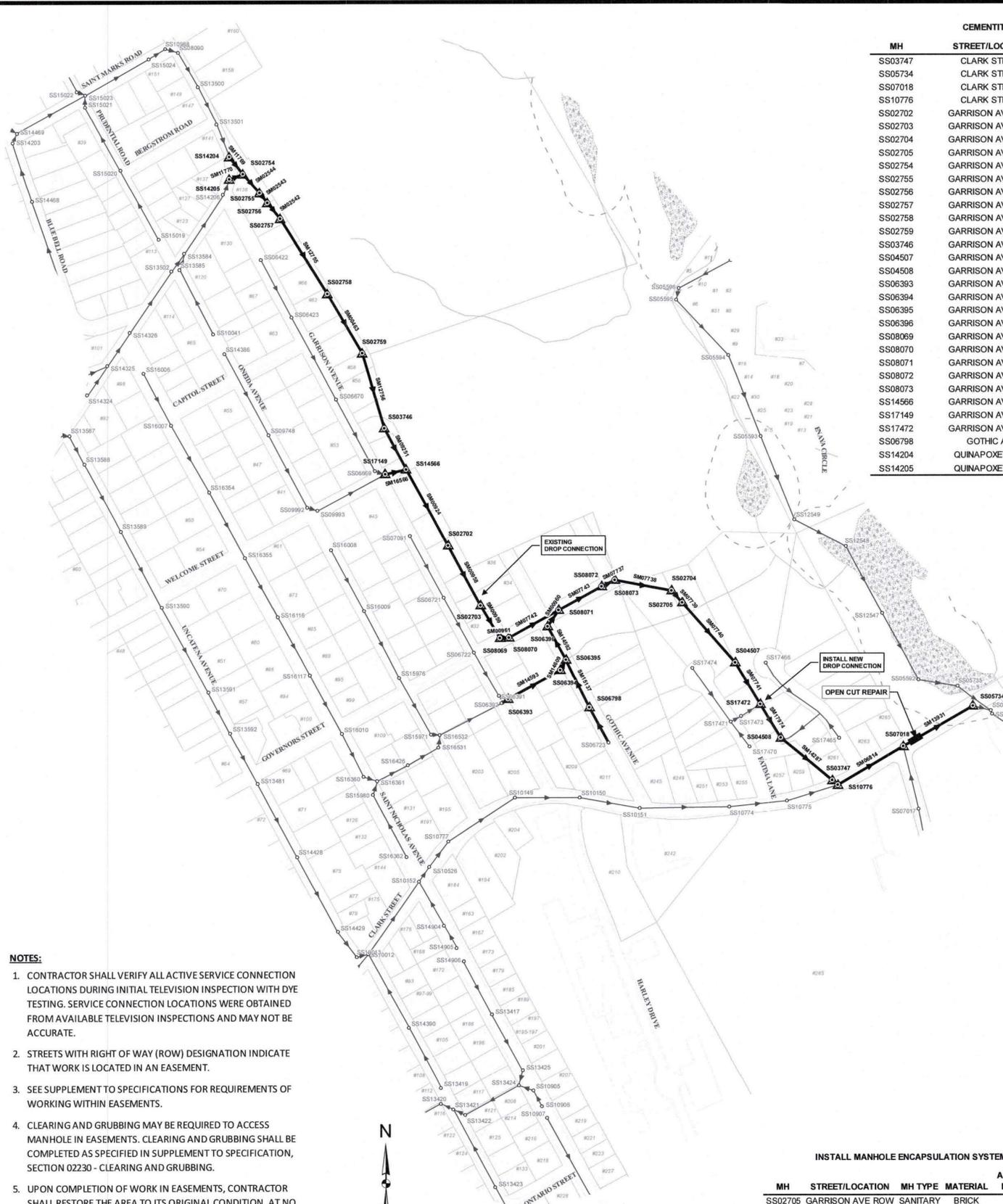
SCALE: 1"=100'

STRUCTURAL CURED-IN-PLACE PIPE

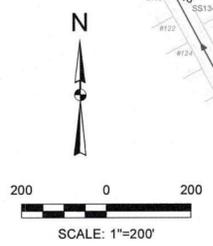
ASSET ID	MH	TO MH	STREET/LOCATION	PIPE TYPE	PIPE DIA. (IN)	MATERIAL	APPROX. MH TO MH LENGTH (LF)	REINSTATE ACTIVE SVC (APPROX. STA)	APPROX. NUMBER OF ACTIVE SVC
SM29338	SS04355	SS03329	CHANDLER STREET	SANITARY	12	RCP	34	-	-
SM05908	SS04640	SS04348	CURTIS PARKWAY ROW	SANITARY	8	VCP	93	-	-
SM20550	SS04641	SS04640	CURTIS PARKWAY ROW	SANITARY	8	VCP	234	-	-
SM02895	SS09521	SS09522	SOUTH FLAGG STREET	SANITARY	8	VCP	11	-	-
SM02896	SS10074	SS09521	SOUTH FLAGG STREET ROW	SANITARY	8	VCP	179	-	-
SM03017	SS10073	SS10074	SOUTH FLAGG STREET ROW	SANITARY	8	VCP	74	-	-
SM11394	SS12994	SS10073	SOUTH FLAGG STREET ROW	SANITARY	8	VCP	76	0+12, 0+20	2
SM12769	SS12996	SS12994	SOUTH FLAGG STREET ROW	SANITARY	8	VCP	46	-	-
SM09978	SS04348	SS10627	STAFFORD STREET ROW	SANITARY	8	VCP	182	-	-
SM09594	SS10627	SS14073	STAFFORD STREET ROW	SANITARY	10	VCP	44	-	-
SM09276	SS13065	SS17078	UNDERWOOD STREET	SANITARY	8	VCP	153	0+13, 0+24, 0+30, 0+43, 0+90	5
SM12124	SS14971	SS13065	UNDERWOOD STREET	SANITARY	8	VCP	127	0+05, 0+27, 0+51, 1+16	4
SM17545	SS17078	SS17227	UNDERWOOD STREET	SANITARY	8	VCP	43	-	-
SM12784	SS07206	SS12996	WESTVIEW ROAD	SANITARY	8	VCP	37	-	-
SM12785	SS12997	SS12996	WESTVIEW ROAD	SANITARY	8	VCP	40	0+06	1

APPROX. TOTAL (LF) = 1,373
 APPROX. SUBTOTAL 8-INCH (LF) = 1,295
 APPROX. SUBTOTAL 10-INCH (LF) = 44
 APPROX. SUBTOTAL 12-INCH (LF) = 34

APPROX. TOTAL NUMBER OF SVC (EA) = 12
 APPROX. SUBTOTAL IN 8-INCH MAIN (EA) = 12
 APPROX. SUBTOTAL IN 10-INCH MAIN (EA) = 10
 APPROX. SUBTOTAL IN 12-INCH MAIN (EA) = 0



- NOTES:**
- CONTRACTOR SHALL VERIFY ALL ACTIVE SERVICE CONNECTION LOCATIONS DURING INITIAL TELEVISION INSPECTION WITH DYE TESTING. SERVICE CONNECTION LOCATIONS WERE OBTAINED FROM AVAILABLE TELEVISION INSPECTIONS AND MAY NOT BE ACCURATE.
 - STREETS WITH RIGHT OF WAY (ROW) DESIGNATION INDICATE THAT WORK IS LOCATED IN AN EASEMENT.
 - SEE SUPPLEMENT TO SPECIFICATIONS FOR REQUIREMENTS OF WORKING WITHIN EASEMENTS.
 - CLEARING AND GRUBBING MAY BE REQUIRED TO ACCESS MANHOLE IN EASEMENTS. CLEARING AND GRUBBING SHALL BE COMPLETED AS SPECIFIED IN SUPPLEMENT TO SPECIFICATION, SECTION 02230 - CLEARING AND GRUBBING.
 - UPON COMPLETION OF WORK IN EASEMENTS, CONTRACTOR SHALL RESTORE THE AREA TO ITS ORIGINAL CONDITION, AT NO ADDITIONAL COST TO THE OWNER.
 - MANHOLE DEPTHS WERE OBTAINED FROM AVAILABLE RECORD INFORMATION. CONTRACTOR SHALL CONFIRM IN FIELD PRIOR TO BIDDING.
 - MANHOLE MATERIAL IS ASSUMED TO BE BRICK UNLESS OTHERWISE NOTED.



REBUILD BENCH AND INSTALL 8-INCH INTERNAL DROP CONNECTION

MH	STREET/LOCATION	MH TYPE	MATERIAL	APPROX. MH DEPTH (VF)
SS17472	GARRISON AVE ROW	SANITARY	PRECAST	12.0
TOTAL (EA) = 1				

CUT PROTRUDING SERVICE CONNECTION

ASSET ID	MH	TO MH	STREET/LOCATION	PIPE DIA. (IN)	MATERIAL	APPROX. MH TO MH LENGTH (LF)	APPROX. STATION
SM14287	SS04508	SS03747	GARRISON AVE ROW	10	VC	218	0+93
TOTAL SVC (EA) = 1							

CEMENTITIOUS LINING AND EXTERIOR SEALING OF MANHOLES

MH	STREET/LOCATION	MH TYPE	MATERIAL	APPROX. MH DEPTH (VF)
SS03747	CLARK STREET	SANITARY	BRICK	6.3
SS05734	CLARK STREET	SANITARY	BRICK	15.0
SS07018	CLARK STREET	SANITARY	BRICK	12.3
SS10776	CLARK STREET	SANITARY	BRICK	18.6
SS02702	GARRISON AVE ROW	SANITARY	BRICK	5.9
SS02703	GARRISON AVE ROW	SANITARY	BRICK	9.0
SS02704	GARRISON AVE ROW	SANITARY	BRICK	6.8
SS02705	GARRISON AVE ROW	SANITARY	BRICK	7.5
SS02754	GARRISON AVE ROW	SANITARY	BRICK	10.8
SS02755	GARRISON AVE ROW	SANITARY	BRICK	10.7
SS02756	GARRISON AVE ROW	SANITARY	BRICK	9.1
SS02757	GARRISON AVE ROW	SANITARY	BRICK	7.0
SS02758	GARRISON AVE ROW	SANITARY	BRICK	9.1
SS02759	GARRISON AVE ROW	SANITARY	BRICK	9.5
SS03746	GARRISON AVE ROW	SANITARY	BRICK	11.5
SS04507	GARRISON AVE ROW	SANITARY	BRICK	7.5
SS04508	GARRISON AVE ROW	SANITARY	BRICK	9.4
SS06393	GARRISON AVE ROW	SANITARY	BRICK	8.0
SS06394	GARRISON AVE ROW	SANITARY	BRICK	9.2
SS06395	GARRISON AVE ROW	SANITARY	BRICK	8.9
SS06396	GARRISON AVE ROW	SANITARY	BRICK	12.9
SS08069	GARRISON AVE ROW	SANITARY	BRICK	6.5
SS08070	GARRISON AVE ROW	SANITARY	BRICK	7.8
SS08071	GARRISON AVE ROW	SANITARY	BRICK	6.9
SS08072	GARRISON AVE ROW	SANITARY	BRICK	5.8
SS08073	GARRISON AVE ROW	SANITARY	BRICK	8.3
SS14566	GARRISON AVE ROW	SANITARY	BRICK	6.3
SS17149	GARRISON AVE ROW	SANITARY	BRICK	7.4
SS17472	GARRISON AVE ROW	SANITARY	PRECAST	9.5
SS06798	GOthic AVE	SANITARY	BRICK	9.0
SS14204	QUINAPOXET LANE	TWIN	BRICK	10.9
SS14205	QUINAPOXET LANE	TWIN	BRICK	7.6
APPROX. TOTAL (VF) = 291				

SEWER MAINLINE CHEMICAL ROOT TREATMENT

ASSET ID	MH	TO MH	STREET/LOCATION	PIPE TYPE	PIPE DIA. (IN)	MATERIAL	APPROX. MH TO MH LENGTH (LF)
SM13931	SS07018	SS05734	CLARK STREET	SANITARY	10	VC	262
SM00924	SS14566	SS02702	GARRISON AVE ROW	SANITARY	8	VC	273
SM00958	SS02702	SS02703	GARRISON AVE ROW	SANITARY	8	VC	220
SM00959	SS02703	SS08069	GARRISON AVE ROW	SANITARY	8	VC	119
SM00960	SS06396	SS08071	GARRISON AVE ROW	SANITARY	8	VC	65
SM00961	SS08069	SS08070	GARRISON AVE ROW	SANITARY	8	VC	24
SM02542	SS02756	SS02757	GARRISON AVE ROW	SANITARY	8	VC	68
SM02543	SS02755	SS02756	GARRISON AVE ROW	SANITARY	8	VC	41
SM02544	SS02754	SS02755	GARRISON AVE ROW	SANITARY	8	VC	82
SM07737	SS08072	SS08073	GARRISON AVE ROW	SANITARY	8	VC	48
SM07738	SS08073	SS02704	GARRISON AVE ROW	SANITARY	8	VC	190
SM07739	SS02704	SS02705	GARRISON AVE ROW	SANITARY	8	VC	53
SM07742	SS08070	SS08071	GARRISON AVE ROW	SANITARY	8	VC	186
SM07743	SS08071	SS08072	GARRISON AVE ROW	SANITARY	8	VC	160
SM09251	SS03746	SS14566	GARRISON AVE ROW	SANITARY	8	VC	155
SM11770	SS14205	SS02754	GARRISON AVE ROW	SANITARY	8	VC	48
SM14592	SS06395	SS06396	GARRISON AVE ROW	SANITARY	8	VC	179
SM14593	SS06393	SS06394	GARRISON AVE ROW	SANITARY	8	VC	205
SM14609	SS06394	SS06395	GARRISON AVE ROW	SANITARY	8	VC	36
SM16566	SS17149	SS14566	GARRISON AVE ROW	SANITARY	8	VC	73
SM00463	SS02758	SS02759	GARRISON AVE ROW	SANITARY	10	VC	234
SM07740	SS02705	SS04507	GARRISON AVE ROW	SANITARY	10	VC	259
SM07741	SS04507	SS17472	GARRISON AVE ROW	SANITARY	10	VC	176
SM11769	SS14204	SS02754	GARRISON AVE ROW	SANITARY	10	VC	69
SM12755	SS02757	SS02758	GARRISON AVE ROW	SANITARY	10	VC	287
SM12756	SS02759	SS03746	GARRISON AVE ROW	SANITARY	10	VC	252
SM14287	SS04508	SS03747	GARRISON AVE ROW	SANITARY	10	VC	218
SM17974	SS17472	SS04508	GARRISON AVE ROW	SANITARY	10	VC	131
SM15137	SS06798	SS06395	GOthic AVE	SANITARY	8	VC	175
APPROX. TOTAL (LF) = 4,288							
APPROX. SUBTOTAL 8-INCH (LF) = 2,400							
APPROX. SUBTOTAL 10-INCH (LF) = 1,888							

OPEN CUT POINT REPAIR

ASSET ID	MH	TO MH	STREET/LOCATION	PIPE DIA. (IN)	MATERIAL	PIPE TYPE	APPROX. MH TO MH LENGTH (LF)	APPROX. US MH DEPTH (VF)	APPROX. DS MH DEPTH (VF)	APPROX. TO APPROX. CONNECTION STATION (APPROX. STA)
SM13931	SS07018	SS05734	CLARK STREET	10	VCP	GRAVITY	262	12.3	15	0+33, 0+95, 0+37
APPROX. TOTAL (LF) = 62 WYE (EA) = 0										

INSTALL WATERTIGHT LOCKING MANHOLE FRAME AND COVER

MH	STREET/LOCATION	MH TYPE	MATERIAL	APPROX. MH DEPTH (VF)
SS02705	GARRISON AVE ROW	SANITARY	BRICK	7.5
SS06394	GARRISON AVE ROW	SANITARY	BRICK	9.2
SS06395	GARRISON AVE ROW	SANITARY	BRICK	8.9
TOTAL (EA) = 3				

ROOT TREATMENT OF SEWER MANHOLES

MH	STREET/LOCATION	MH TYPE	MATERIAL	APPROX. MH DEPTH (VF)
SS02704	GARRISON AVE ROW	SANITARY	BRICK	7
SS02758	GARRISON AVE ROW	SANITARY	BRICK	9.4
TOTAL (EA) = 2				

RAISE MANHOLE FRAME AND COVER

MH	STREET/LOCATION	MH TYPE	MATERIAL	APPROX. MH DEPTH (VF)	RAISE FRAME AND COVER
SS02705	GARRISON AVE ROW	SANITARY	BRICK	7.5	2 FEET ABOVE GRADE
SS06394	GARRISON AVE ROW	SANITARY	BRICK	9.2	2 FEET ABOVE GRADE
TOTAL (EA) = 2					

STRUCTURAL CURED-IN-PLACE PIPE

ASSET ID	MH	TO MH	STREET/LOCATION	PIPE TYPE	PIPE DIA. (IN)	MATERIAL	APPROX. MH TO MH LENGTH (LF)	REINSTATE ACTIVE SVC (APPROX. STA)	APPROX. NUMBER OF ACTIVE SVC
SM06814	SS10776	SS07018	CLARK STREET	SANITARY	8	VCP	248	1+66	1
SM13931	SS07018	SS05734	CLARK STREET	SANITARY	10	VCP	262	0+37	1
SM00924	SS14566	SS02702	GARRISON AVE ROW	SANITARY	8	VCP	273	2+20	1
SM00958	SS02702	SS02703	GARRISON AVE ROW	SANITARY	8	VCP	220	0+72	1
SM00959	SS02703	SS08069	GARRISON AVE ROW	SANITARY	8	VCP	119	0+90	1
SM00960	SS06396	SS08071	GARRISON AVE ROW	SANITARY	8	VCP	65	-	1
SM00961	SS08069	SS08070	GARRISON AVE ROW	SANITARY	8	VCP	24	-	-
SM02542	SS02756	SS02757	GARRISON AVE ROW	SANITARY	8	VCP	68	-	-
SM02543	SS02755	SS02756	GARRISON AVE ROW	SANITARY	8	VCP	41	-	-
SM02544	SS02754	SS02755	GARRISON AVE ROW	SANITARY	8	VCP	82	0+78	1
SM07737	SS08072	SS08073	GARRISON AVE ROW	SANITARY	8	VCP	48	-	-
SM07738	SS08073	SS02704	GARRISON AVE ROW	SANITARY	8	VCP	190	-	-
SM07739	SS02704	SS02705	GARRISON AVE ROW	SANITARY	8	VCP	53	-	-
SM07742	SS08070	SS08071	GARRISON AVE ROW	SANITARY	8	VCP	186	-	-
SM07743	SS08071	SS08072	GARRISON AVE ROW	SANITARY	8	VCP	160	-	-
SM09251	SS03746	SS14566	GARRISON AVE ROW	SANITARY	8	VCP	155	-	-
SM11770	SS14205	SS02754	GARRISON AVE ROW	SANITARY	8	VCP	48	-	-
SM14592	SS06395	SS06396	GARRISON AVE ROW	SANITARY	8	VCP	179	0+28, 0+30	2
SM14593	SS06393	SS06394	GARRISON AVE ROW	SANITARY	8	VCP	205	-	-
SM14609	SS06394	SS06395	GARRISON AVE ROW	SANITARY	8	VCP	36	-	-
SM16566	SS17149	SS14566	GARRISON AVE ROW	SANITARY	8	VCP	73	0+52, 0+69	2
SM00463	SS02758	SS02759	GARRISON AVE ROW	SANITARY	10	VCP	234	-	-
SM07740	SS02705	SS04507	GARRISON AVE ROW	SANITARY	10	VCP	259	-	-
SM07741	SS04507	SS17472	GARRISON AVE ROW	SANITARY	10	VCP	176	-	-
SM11769	SS14204	SS02754	GARRISON AVE ROW	SANITARY	10	VCP	69	-	-
SM12755	SS02757	SS02758	GARRISON AVE ROW	SANITARY	10	VCP	287	0+05, 0+86, 1+47, 2+19	4
SM12756	SS02759	SS03746	GARRISON AVE ROW	SANITARY	10	VCP	252	0+13, 1+50	2
SM14287	SS04508	SS03747	GARRISON AVE ROW	SANITARY	10	VCP	218	-	-
SM17974	SS17472	SS04508	GARRISON AVE ROW	SANITARY	10	VCP	131	-	-
SM15012	SS06723	SS06798	GOthic AVE	SANITARY	8	VCP	127	0+45, 0+58, 1+06	3
SM15137	SS06798	SS06395	GOthic AVE	SANITARY	8	VCP	175	0+23, 0+25	2
APPROX. TOTAL (LF) = 4,663									
APPROX. SUBTOTAL 8-INCH (LF) = 2,775									
APPROX. SUBTOTAL 10-INCH (LF) = 1,888									
APPROX. TOTAL NUMBER OF SVC (EA) = 21									
APPROX. SUBTOTAL 8-INCH MAIN (EA) = 14									
APPROX. SUBTOTAL 10-INCH MAIN (EA) = 7									

Project: CITY OF WORCESTER, MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS AND PARKS

VARIOUS STREETS 2020 SANITARY, SURFACE, AND COMBINED SEWER REHABILITATION PROJECT

CONTRACT NO. S20-4
BID NO. 7459-W1

Weston & Sampson
Weston & Sampson Engineers, Inc.
427 Main Street, Suite 400
Worcester, MA 01608
978.532.1900 800.SAMPSON
www.westonandsampson.com

Consultants:

Don G. Gallucci
8/31/2020

Revisions:

No.	Date	Description

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W&S Project No.: 2191049 A

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Drawing Title:

PLANS AND TABLES

Sheet Number:

C102

Rev. 1.0 Date: 04/10/2018

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STRUCTURAL CURED-IN-PLACE PIPE

ASSET ID	MH	TO MH	STREET/LOCATION	PIPE TYPE	PIPE DIA. (IN)	MATERIAL	APPROX. MH TO MH LENGTH (LF)	REINSTATE ACTIVE SVC (APPROX. STA)	APPROX. NUMBER OF ACTIVE SVC
SM15967	SS11621	SS16859	INDIAN HILL ROAD	SANITARY	8	VC	238	0+26, 1+17, 1+29, 2+06	4
SM15994	SS16859	SS16858	INDIAN HILL ROAD	SANITARY	8	VC	28	-	-
SM16390	SS16858	SS15404	INDIAN HILL ROAD ROW	SANITARY	8	VC	218	1+30	1
SM02586	SS15404	SS11620	INDIAN HILL ROAD ROW	SANITARY	8	VC	290	1+02, 2+38	2
SM03701	SS11620	SS11619	INDIAN HILL ROAD ROW	SANITARY	8	VC	131	0+75	1
SM15988	SS11619	SS15403	INDIAN HILL ROAD ROW	SANITARY	8	VC	102	-	-
SM11598	SS11622	SS09171	INDIAN HILL ROAD ROW	SANITARY	10	VC	173	-	-
SM04515	SS09171	SS09172	INDIAN HILL ROAD ROW	SANITARY	10	VC	28	-	-
							APPROX. TOTAL (LF) = 1,208	APPROX. TOTAL NUMBER OF SVC (EA) = 8	
							APPROX. SUBTOTAL 8-INCH (LF) = 1,007	APPROX. SUBTOTAL IN 8-INCH MAIN (EA) = 8	
							APPROX. SUBTOTAL 10-INCH (LF) = 201	APPROX. SUBTOTAL IN 10-INCH MAIN (EA) = 0	

CURED-IN-PLACE LATERAL LINER

ASSET ID	MH	TO MH	STREET/LOCATION	PIPE TYPE	MATERIAL	PIPE DIA. (IN)	DIAMETER (IN)	APPROX. MH TO MH LENGTH (LF)	APPROX. STATION	APPROX. LATERAL LINER LENGTH (FT)
SM15967	SS11621	SS16859	INDIAN HILL ROAD	SANITARY	VCP	8	6	238	1+17	5
									TOTAL 6-INCH (LF) = 5	

Project: CITY OF WORCESTER, MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS AND PARKS



VARIOUS STREETS 2020 SANITARY, SURFACE, AND COMBINED SEWER REHABILITATION PROJECT

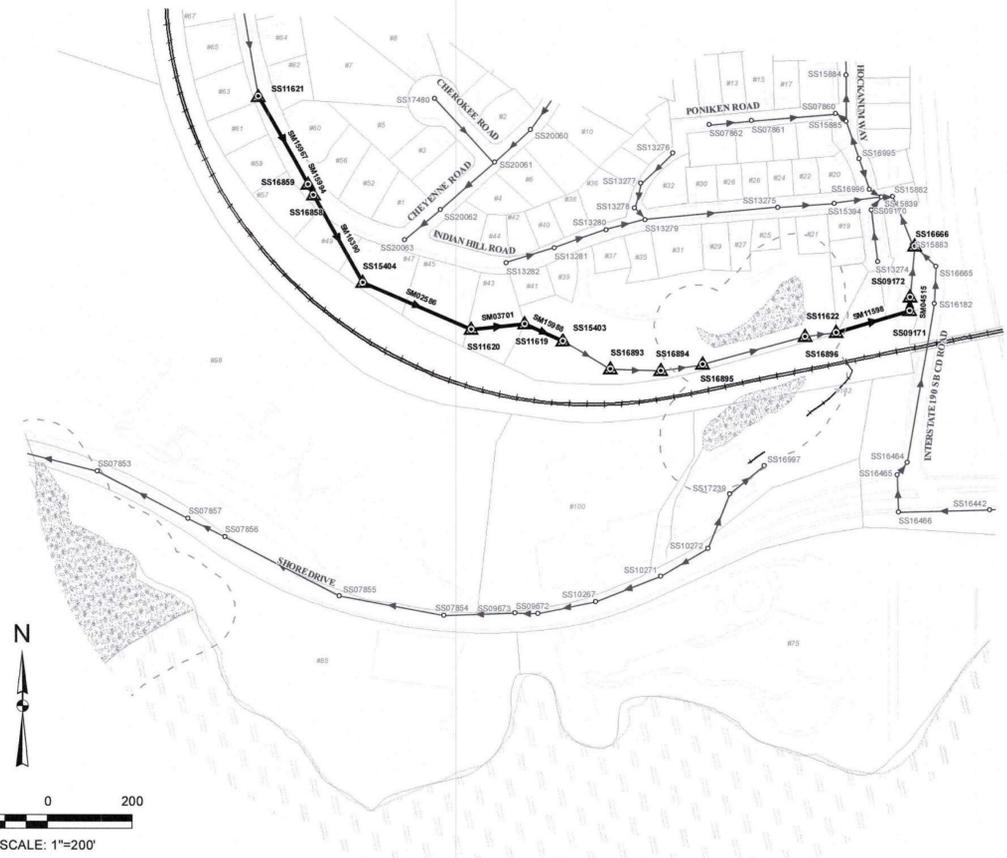
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978.532.1900 800.SAMPSON
www.westonandsampson.com

Consultants:



Don G. Gallucci
Civil
No. 37973
Professional Engineer
9/31/2020



CEMENTITIOUS LINING AND EXTERIOR SEALING OF MANHOLES

MH	STREET/LOCATION	MH TYPE	MATERIAL	APPROX. MH DEPTH (VF)
SS11621	INDIAN HILL ROAD	SANITARY	BRICK	10
SS16858	INDIAN HILL ROAD	SANITARY	PRECAST	12.3
SS16859	INDIAN HILL ROAD	SANITARY	BRICK	6.3
SS09171	INDIAN HILL ROAD ROW	SANITARY	BRICK	13.7
SS09172	INDIAN HILL ROAD ROW	SANITARY	BRICK	13.5
SS11619	INDIAN HILL ROAD ROW	SANITARY	BRICK	9
SS11620	INDIAN HILL ROAD ROW	SANITARY	BRICK	7.7
SS11622	INDIAN HILL ROAD ROW	SANITARY	BRICK	6.3
SS15403	INDIAN HILL ROAD ROW	SANITARY	BRICK	8
SS15404	INDIAN HILL ROAD ROW	SANITARY	BRICK	10.2
SS16666	INDIAN HILL ROAD ROW	SANITARY	PRECAST	14
SS16893	INDIAN HILL ROAD ROW	SANITARY	PRECAST	12
SS16894	INDIAN HILL ROAD ROW	SANITARY	PRECAST	12
SS16895	INDIAN HILL ROAD ROW	SANITARY	PRECAST	12
SS16896	INDIAN HILL ROAD ROW	SANITARY	PRECAST	12
				APPROX. TOTAL (VF) = 159

- NOTES:
- CONTRACTOR SHALL VERIFY ALL ACTIVE SERVICE CONNECTION LOCATIONS DURING INITIAL TELEVISION INSPECTION WITH DYE TESTING. SERVICE CONNECTION LOCATIONS WERE OBTAINED FROM AVAILABLE TELEVISION INSPECTIONS AND MAY NOT BE ACCURATE.
 - STREETS WITH RIGHT OF WAY (ROW) DESIGNATION INDICATE THAT WORK IS LOCATED IN AN EASEMENT.
 - SEE SUPPLEMENT TO SPECIFICATIONS FOR REQUIREMENTS OF WORKING WITHIN EASEMENTS.
 - CLEARING AND GRUBBING MAY BE REQUIRED TO ACCESS MANHOLE IN EASEMENTS. CLEARING AND GRUBBING SHALL BE COMPLETED AS SPECIFIED IN SUPPLEMENT TO SPECIFICATION, SECTION 02230 - CLEARING AND GRUBBING.
 - UPON COMPLETION OF WORK IN EASEMENTS, CONTRACTOR SHALL RESTORE THE AREA TO ITS ORIGINAL CONDITION, AT NO ADDITIONAL COST TO THE OWNER.
 - MANHOLE DEPTHS WERE OBTAINED FROM AVAILABLE RECORD INFORMATION. CONTRACTOR SHALL CONFIRM IN FIELD PRIOR TO BIDDING.
 - MANHOLE MATERIAL IS ASSUMED TO BE BRICK UNLESS OTHERWISE NOTED.

SEWER MAINLINE CHEMICAL ROOT TREATMENT

ASSET ID	MH	TO MH	STREET/LOCATION	PIPE TYPE	PIPE DIA. (IN)	MATERIAL	APPROX. MH TO MH LENGTH (LF)
SM15967	SS11621	SS16859	INDIAN HILL ROAD	SANITARY	8	VC	238
SM15994	SS16859	SS16858	INDIAN HILL ROAD	SANITARY	8	VC	28
SM16390	SS16858	SS15404	INDIAN HILL ROAD ROW	SANITARY	8	VC	218
SM02586	SS15404	SS11620	INDIAN HILL ROAD ROW	SANITARY	8	VC	290
SM03701	SS11620	SS11619	INDIAN HILL ROAD ROW	SANITARY	8	VC	131
SM15988	SS11619	SS15403	INDIAN HILL ROAD ROW	SANITARY	8	VC	102
SM11598	SS11622	SS09171	INDIAN HILL ROAD ROW	SANITARY	10	VC	173
SM04515	SS09171	SS09172	INDIAN HILL ROAD ROW	SANITARY	10	VC	28
							APPROX. TOTAL (LF) = 1,208
							APPROX. SUBTOTAL 8-INCH (LF) = 1,007
							APPROX. SUBTOTAL 10-INCH (LF) = 201

ROOT TREATMENT OF SEWER MANHOLES

MH	STREET/LOCATION	MH TYPE	MATERIAL	APPROX. MH DEPTH (VF)
SS09171	INDIAN HILL ROAD ROW	SANITARY	BRICK	13.7
SS09172	INDIAN HILL ROAD ROW	SANITARY	BRICK	13.5
SS16896	INDIAN HILL ROAD ROW	SANITARY	PRECAST	12
SS16893	INDIAN HILL ROAD ROW	SANITARY	PRECAST	12
SS16894	INDIAN HILL ROAD ROW	SANITARY	PRECAST	12
SS16895	INDIAN HILL ROAD ROW	SANITARY	PRECAST	12
SS15403	INDIAN HILL ROAD ROW	SANITARY	BRICK	8
SS11619	INDIAN HILL ROAD ROW	SANITARY	BRICK	9
SS11620	INDIAN HILL ROAD ROW	SANITARY	BRICK	7.7
SS15404	INDIAN HILL ROAD ROW	SANITARY	BRICK	10.2
SS16859	INDIAN HILL ROAD	SANITARY	BRICK	6.3
SS11621	INDIAN HILL ROAD	SANITARY	BRICK	10
SS11622	INDIAN HILL ROAD ROW	SANITARY	BRICK	6.3
SS16666	INDIAN HILL ROAD ROW	SANITARY	PRECAST	14
SS16858	INDIAN HILL ROAD	SANITARY	PRECAST	12.3
				TOTAL (EA) = 15

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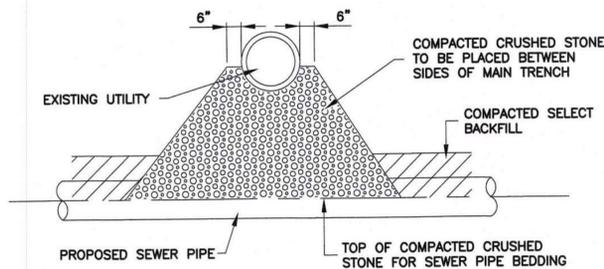
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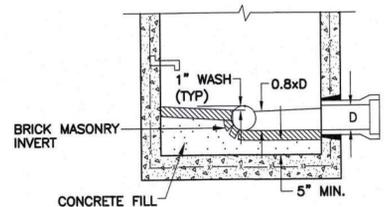
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W&S File No.:

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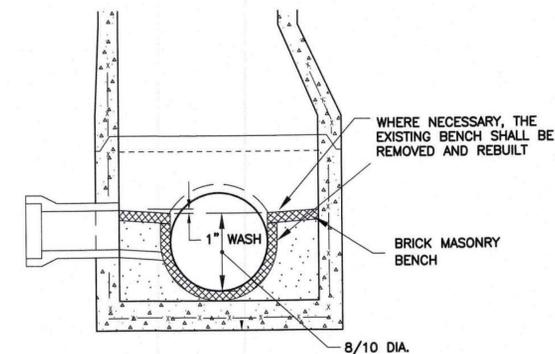
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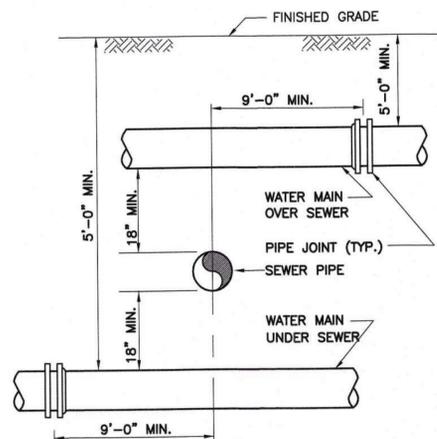
UTILITY CROSSING DETAIL
N.T.S.



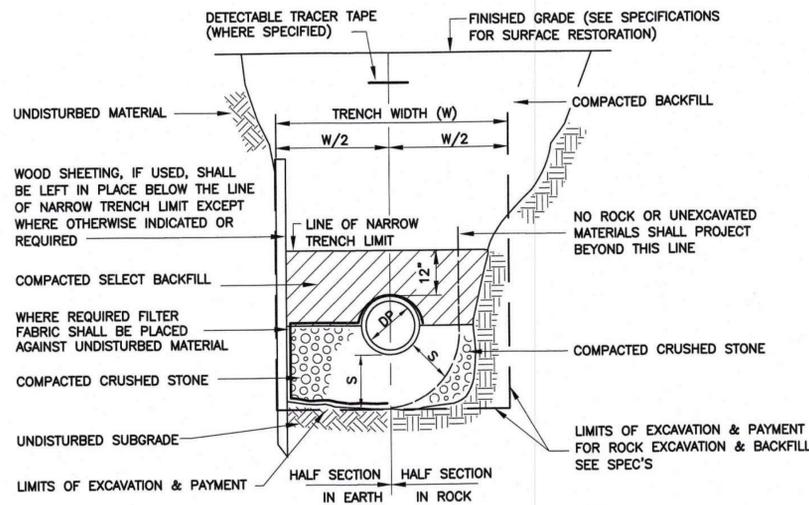
SEWER MANHOLE BENCH AND INVERT DETAIL
N.T.S.



SEWER MANHOLE BENCH DETAIL
N.T.S.



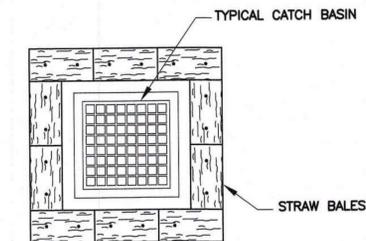
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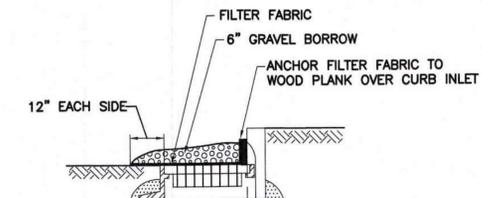
TRENCH DETAIL
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DEPTH TO INVERT	DIAMETER OF PIPE (DP)	MAXIMUM TRENCH WIDTH BELOW LINE OF NARROW TRENCH LIMIT (SHEETED OR UNSHEETED) (W)	MINIMUM CLEARANCE (S)
0-12'	TO 18"	5'	6"
0-12'	21"-24"	5'	7-1/2"
OVER 12'	TO 18"	7'	6"
OVER 12'	21"-24"	7'	7-1/2"

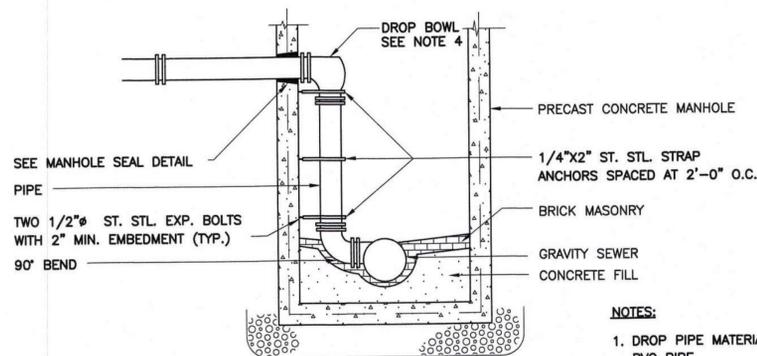
TABLE A



CATCH BASIN PROTECTION DETAIL
N.T.S.



CATCH BASIN INLET PROTECTION DETAIL
N.T.S.



INSIDE DROP CONNECTION DETAIL
N.T.S.

- NOTES:**
- DROP PIPE MATERIALS TO BE PVC PIPE
 - DIMENSIONS & CONSTRUCTION OF MANHOLE TO BE SIMILAR TO TYP. MANHOLE EXCEPT AS SHOWN
 - FOR PIPE UP TO AND INCLUDING 8", USE 4' DIAMETER MANHOLE; OVER 8", USE 5' DIAMETER MANHOLE
 - DROP BOWL SHALL BE RELINER/DURAN MODEL B8DB OR APPROVED EQUAL

Project:
CITY OF WORCESTER,
MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS
AND PARKS

VARIOUS STREETS 2020
SANITARY, SURFACE,
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Consultants:

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CIVIL
No. 37973
REGISTERED
PROFESSIONAL ENGINEER

Don G. Gallucci
8/31/2020

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W&S Project No.: 2191049.A
W&S File No.: SEE PATH

Drawing Title:
DETAILS II

Sheet Number:
C501



Consultants:

Don Gallucci
8/31/2020

TEMPORARY TRAFFIC SIGN SUMMARY

MUTCD CODE	SIZE OF SIGN		SIGN
	WIDTH	HEIGHT	
W1-4L	30"	30"	
W1-4R	30"	30"	
W20-1	36"	36"	
W20-4	36"	36"	
W20-8	36"	36"	

- NOTE:**
- FOR THE LATEST SPECIFICATION ON TEXT DIMENSIONS AND COLOR, CONTRACTOR SHALL REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION).

- LEGEND:**
- REFLECTORIZED DRUM
 - ← TRAFFIC FLOW DURING CONSTRUCTION
 - ↔ NORMAL TRAFFIC FLOW
 - Ⓟ POLICE DETAIL OFFICER
 - Ⓜ CONSTRUCTION SIGN
 - ▨ WORK AREA

- GENERAL NOTES:**
- PLACEMENT OF ALL CONSTRUCTION SIGNS, DRUMS, BARRICADES, TRAFFIC DEVICES AND THE SHAPE, SIZE & COLOR OF ALL TEMPORARY TRAFFIC SIGNS SHALL CONFORM WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 - ADVANCE WARNING SIGN PLACEMENT AND TAPER LENGTH TO BE ADJUSTED ACCORDING TO STREET CONDITIONS AND DRIVEWAY OPENINGS.
 - ALL DRUMS SHALL BE APPROXIMATELY PLACED AND MOVED AS NECESSARY TO MAINTAIN ADEQUATE ABUTTER ACCESS AT ALL TIMES.
 - THE CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT AND SIMILAR OPERATIONS.
 - NONESSENTIAL TRAFFIC CONTROL DEVICES SHALL BE COVERED OR REMOVED DURING NON-WORKING HOURS.
 - PEDESTRIANS SHALL BE PROVIDED WITH ACCESS AND SAFE PASSAGE THROUGH THE TEMPORARY TRAFFIC CONTROL ZONE AT ALL TIMES.
 - W20-8 SHALL BE TAKEN DOWN OR COVERED AFTER EACH WORKING DAY OR WHEN OTHERWISE NOT APPLICABLE, OR WHEN POLICE OFFICERS ARE NOT PRESENT TO DIRECT TRAFFIC.
 - ADVISORY SPEED PLATES (W13-1 - SEE CURRENT EDITION OF MUTCD) SHALL BE USED IF APPLICABLE AND AS REQUIRED BY THE ENGINEER.
 - NO DIFFERENCE IN ROADWAY LANE ELEVATION WILL BE ALLOWED AT THE END OF THE WORK DAY.
 - SAMPLE TRAFFIC PLANS INCLUDED ON THIS PLAN SHEET ARE BASED ON AN URBAN (LOW SPEED) ROAD TYPE FROM THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 - DASHED LINES SHOW LANE DESIGNATIONS TO BE USED DURING CONSTRUCTION.
 - THE CONTRACTOR SHALL SUBMIT ANY REVISIONS TO THE CONSTRUCTION ZONE SAFETY PLAN TO THE ENGINEER FOR APPROVAL.
 - THIS CONSTRUCTION ZONE SAFETY PLAN SHALL NOT RELIEVE THE CONTRACTOR OF HIS SOLE RESPONSIBILITY FOR CONSTRUCTION SITE SAFETY.

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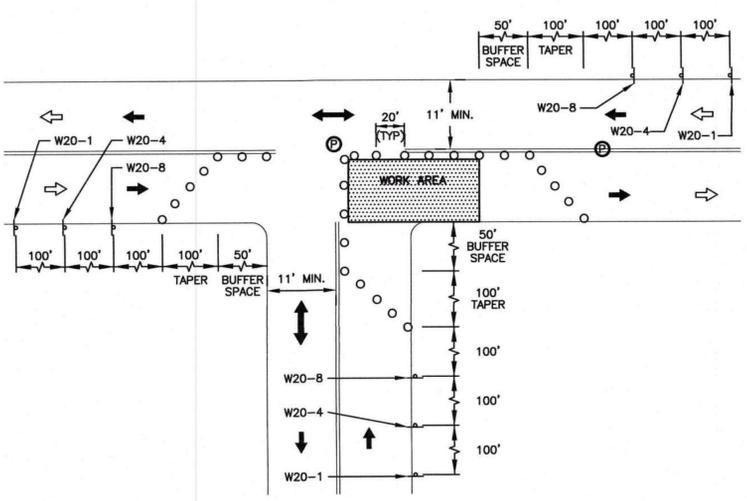
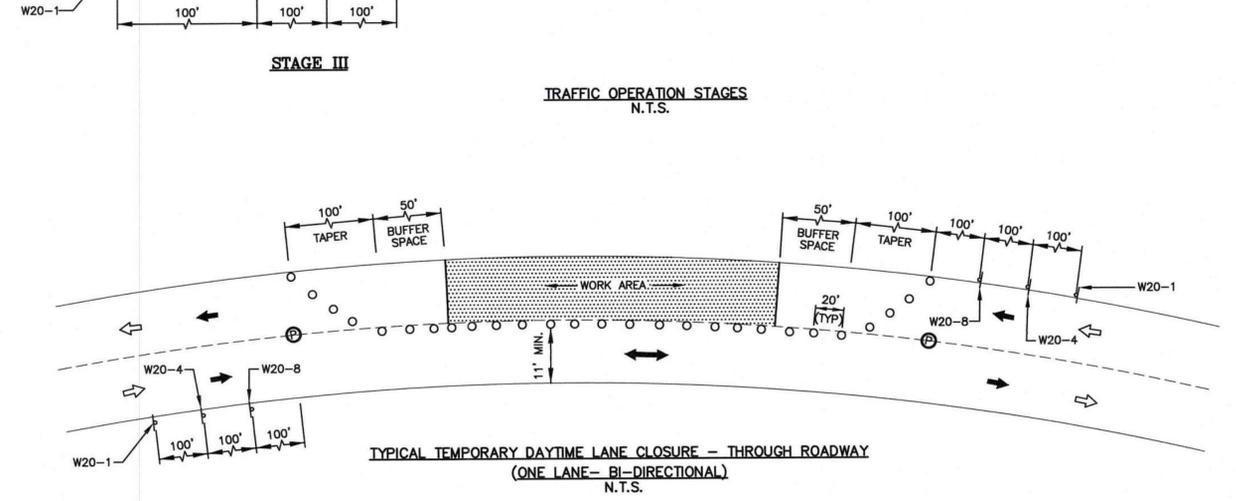
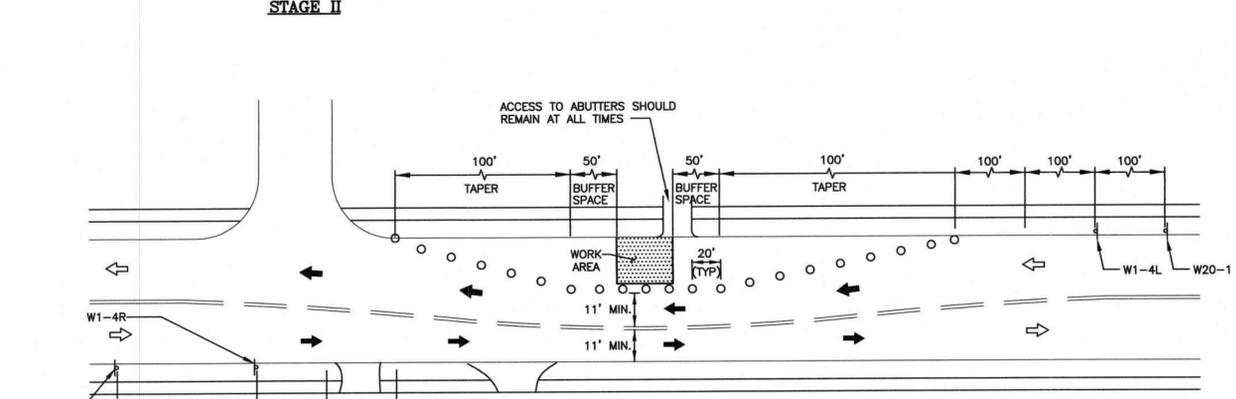
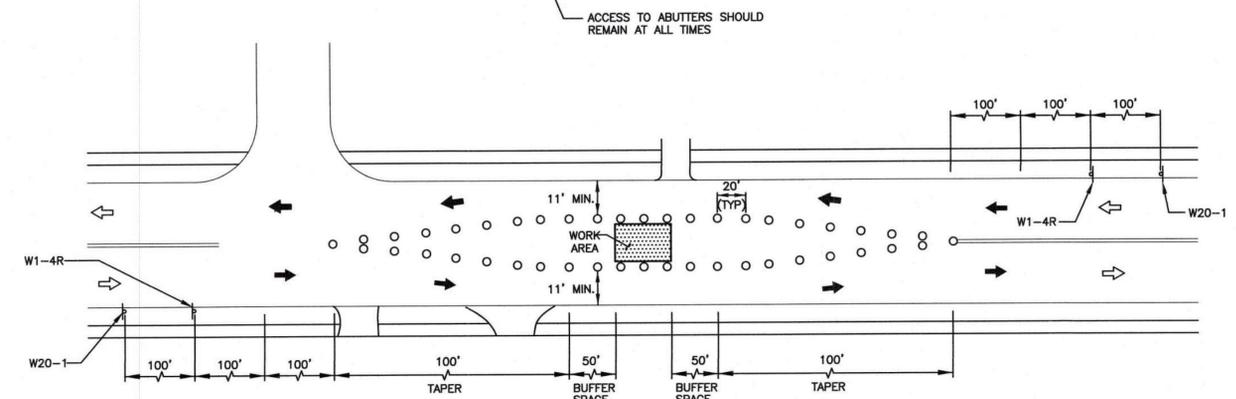
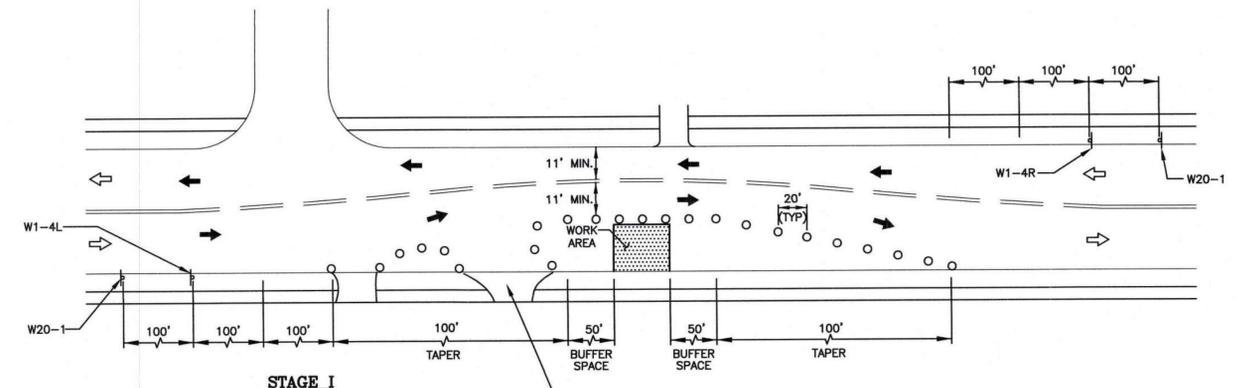
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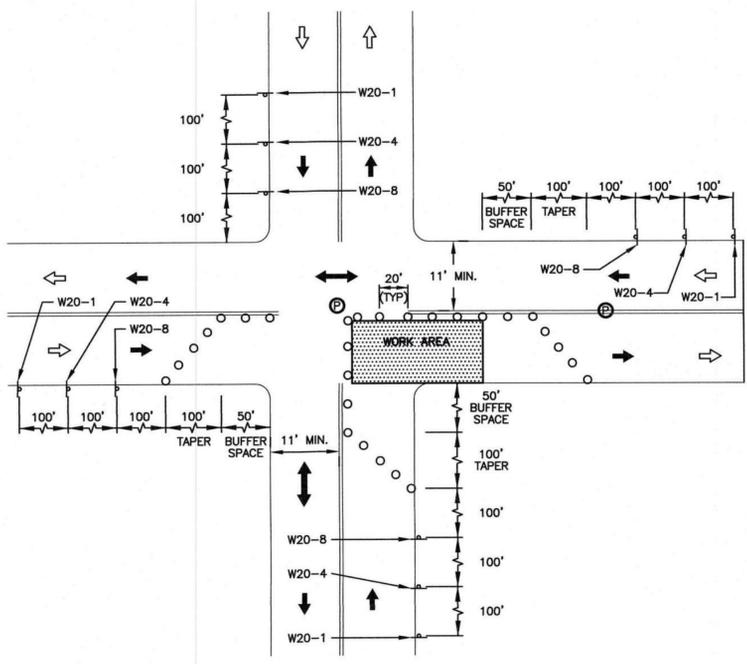
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CONSTRUCTION ZONE SAFETY PLAN

Sheet Number:
C503

Rev. 1.7 Date: 08/12/2019



"I" INTERSECTION LANE CLOSURE
N.T.S.



CLOSURE AT SIDE OF INTERSECTION
N.T.S.

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