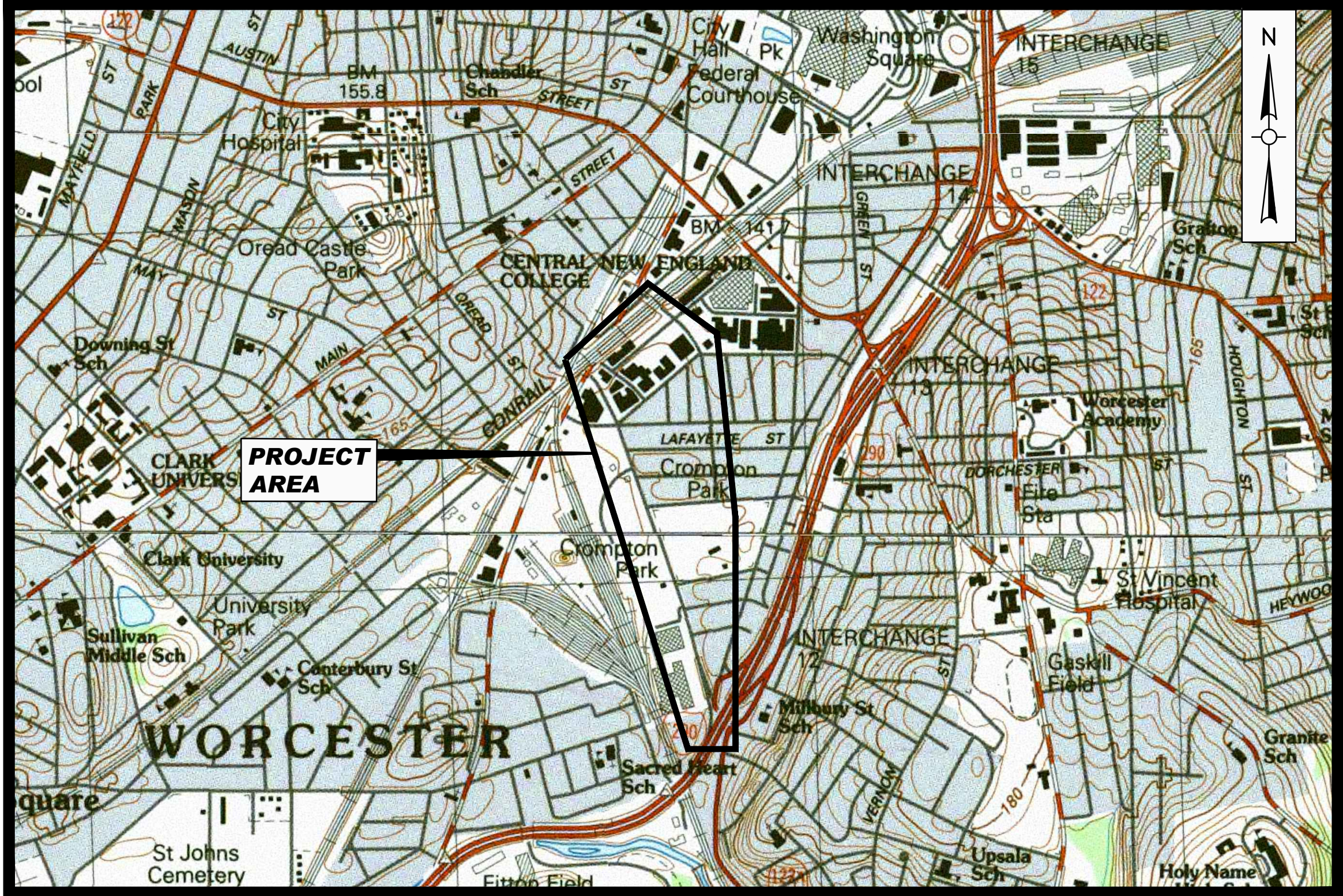
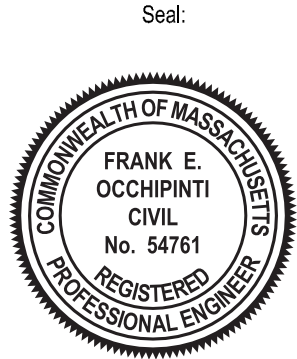


CITY OF WORCESTER, MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS & PARKS
WESTERN INTERCEPTOR (QUINSIGAMOND AVE) SEWER REHABILITATION PROJECT



LOCUS MAP
SCALE : 1"=1,000'

DRAWING INDEX	
SHEET	TITLE
G000	COVER
G001	ABBREVIATIONS, NOTES AND LEGEND
C101	PLANS AND TABLES
C501	CONSTRUCTION DETAILS I
C502	WORCESTER STANDARD CONSTRUCTION DETAILS
C503	CONSTRUCTION ZONE SAFETY PLAN



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Know what's below.
Call before you dig.











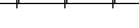
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CONTRACT NO. S25-3
BID # 8454-M6



ERIC D. BATISTA, CITY MANAGER
JOHN WESTERLING, COMMISSIONER OF PUBLIC WORKS AND PARKS

LEGEND		
DESCRIPTION	EXISTING	PROPOSED REHABILITATIONS
SANITARY/COMBINED SEWER		
SANITARY/COMBINED SEWER MANHOLE	SS01234 	SS01234 
SURFACE DRAIN		
COMBINED SEWER OVERFLOW COLLECTOR		
SANITARY/SURFACE/COMBINED SEWER MANHOLE OUTSIDE PROJECT AREA		
CATCH BASIN		
BUILDING		
RAILROAD		
HOUSE NUMBER		

CONSTRUCTION NOTES:


1. THE CONTRACTOR SHALL CALL DIG SAFE AT 811 OR 1-888-344-7233 AT LEAST 72 HOURS, SUNDAYS, HOLIDAYS EXCLUDED, PRIOR TO EXCAVATING. AT ANY LOCATION. A COPY OF THE DIGSAFE 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. ALL STREET EXCAVATIONS SHALL BE COMPLETELY CLOSED AT THE END OF EACH WORKING DAY BY BACKFILLING OR COVERING WITH STEEL PLATES. THE METHOD OF CLOSURE SHALL BE APPROVED BY THE ENGINEER AND THE OWNER.
8. EXCAVATION SHALL BE COMPLETED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS AND PERMIT REQUIREMENTS.
9. EXISTING UTILITY INFORMATION WAS TAKEN FROM CITY RECORD DRAWINGS. THE CONTRACTOR SHALL VISIT THE PREMISES TO FAMILIARIZE THEMSELVES 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 ITSELF 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, PER SECTION 01535 TEMPORARY BYPASS PUMPING SYSTEM AND SECTION 01575 HANDLING EXISTING FLOWS.
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 ARE PROVIDED IN THE APPENDIX OF THE SPECIFICATIONS, FOR MORE INFORMATION. THE LOCATIONS OF MANHOLES AND PIPE SEGMENTS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
15. IN SITUATIONS WHERE WORK IS LOCATED OFF A PUBLIC STREET, THE "STREET/LOCATION" FIELD OF THE TABLE INDICATES THE CLOSEST STREET.
16. MANHOLES AND LINE SEGMENTS WITH WORK TO BE PERFORMED ARE INDICATED ON PLANS ACCORDING TO LEGEND. WHERE THERE IS A DISCREPANCY BETWEEN THE PLANS AND THE WORK TABLES, THE WORK TABLES SHALL CONTROL.
17. NO CONSTRUCTION WORK SHALL BE ALLOWED ON SATURDAYS, SUNDAYS, OR HOLIDAYS WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER AND APPROVAL FROM THE ENGINEER.
18. CONSTRUCTION ACTIVITY SHALL BE RESTRICTED TO A NORMAL, 8-HOUR, 5-DAY WEEK BETWEEN THE HOURS OF 7:00 AM AND 5:00 PM, MONDAY THROUGH FRIDAY. CONTINUOUS WORK MAY EXTEND BEYOND NORMAL WORK HOURS WITH NOTIFICATION TO THE ENGINEER AND OWNER. NO NEW WORK SHALL BE STARTED AFTER 4:00 PM UNLESS AUTHORIZED BY THE OWNER AND APPROVED BY THE ENGINEER IN ADVANCE.
19. GEOPOLYMER LINING OF MANHOLES SHALL BE COMPLETED FOLLOWING THE INSTALLATION OF GEOPOLYMER LINING OF SEWERS.
20. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH TWO WEEKS NOTICE PRIOR TO GEOPOLYMER LINING INSTALLATION. THE CONTRACTOR SHALL NOTIFY HOMEOWNERS AND BUSINESSES IN ADVANCE PER SPECIFICATION SECTION 02431 GEOPOLYMER LINING OF SEWERS.
21. SHOULD THE CONTRACTOR DETERMINE THAT DUE TO WEATHER OR CONDITIONS BEYOND THEIR CONTROL WORK WOULD NEED TO BE CANCELLED, THE CONTRACTOR SHALL PROVIDE THE TRAFFIC CONTROL OFFICER AND ENGINEER A MINIMUM OF 4-HOUR NOTICE. IF THE 4-HOUR CANCELLATION NOTICE IS NOT PROVIDED THE CONTRACTOR SHALL PAY FOR POLICE DETAIL TIME AT THE PREVAILING RATE ESTABLISHED BY THE WORCESTER POLICE DEPARTMENT.
22. SILT SACKS SHALL BE INSTALLED IN ALL CATCH BASINS LOCATED WITHIN 300 FEET DOWNGRADIENT OF WORK AREAS REQUIRING TRENCH CONSTRUCTION. SILT SACKS SHALL BE INSTALLED IN ACCORDANCE WITH SPEC SECTION 01570 ENVIRONMENTAL PROTECTION.

ABBREVIATIONS

APPROX.	APPROXIMATE
AVE	AVENUE
BLDG.	BUILDING
BRK	BRICK
¢	CENTERLINE
CONC	CONCRETE (NON-REINFORCED)
CDF	CONTROLLED DENSITY FILL
CT	COURT
DIA.	DIAMETER
DP	DEPARTMENT OF PIPE
DPW&P	DEPARTMENT OF PUBLIC WORKS AND PARKS
EA	EXISTING
FT	FOOT/FEET
IN	INCH
L	LENGTH
LF	LINEAR FEET
LN	LANE
MH	MANHOLE
MIN.	MINIMUM
NA	NOT APPLICABLE
NO.	NUMBER
NTS	NOT TO SCALE
PKWY	PARKWAY
PROP	PROPOSED
PS	PUMP STATION
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REQ'D	REQUIRED
SPEC	SPECIFICATIONS
ST	STREET
STA	STATION
SVC	SERVICE CONNECTION
TEMP	TEMPORARY
TYP	TYPICAL
VF	VERTICAL FEET
W	WIDTH

Project:

CITY OF WORCESTER,
MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS
AND PARKS



SEAL OF THE CITY OF WORCESTER
MASSACHUSETTS
INCORPORATED 1722 A CITY 1800

WESTERN INTERCEPTOR
(QUINSIGAMOND AVE) SEWER
REHABILITATION PROJECT

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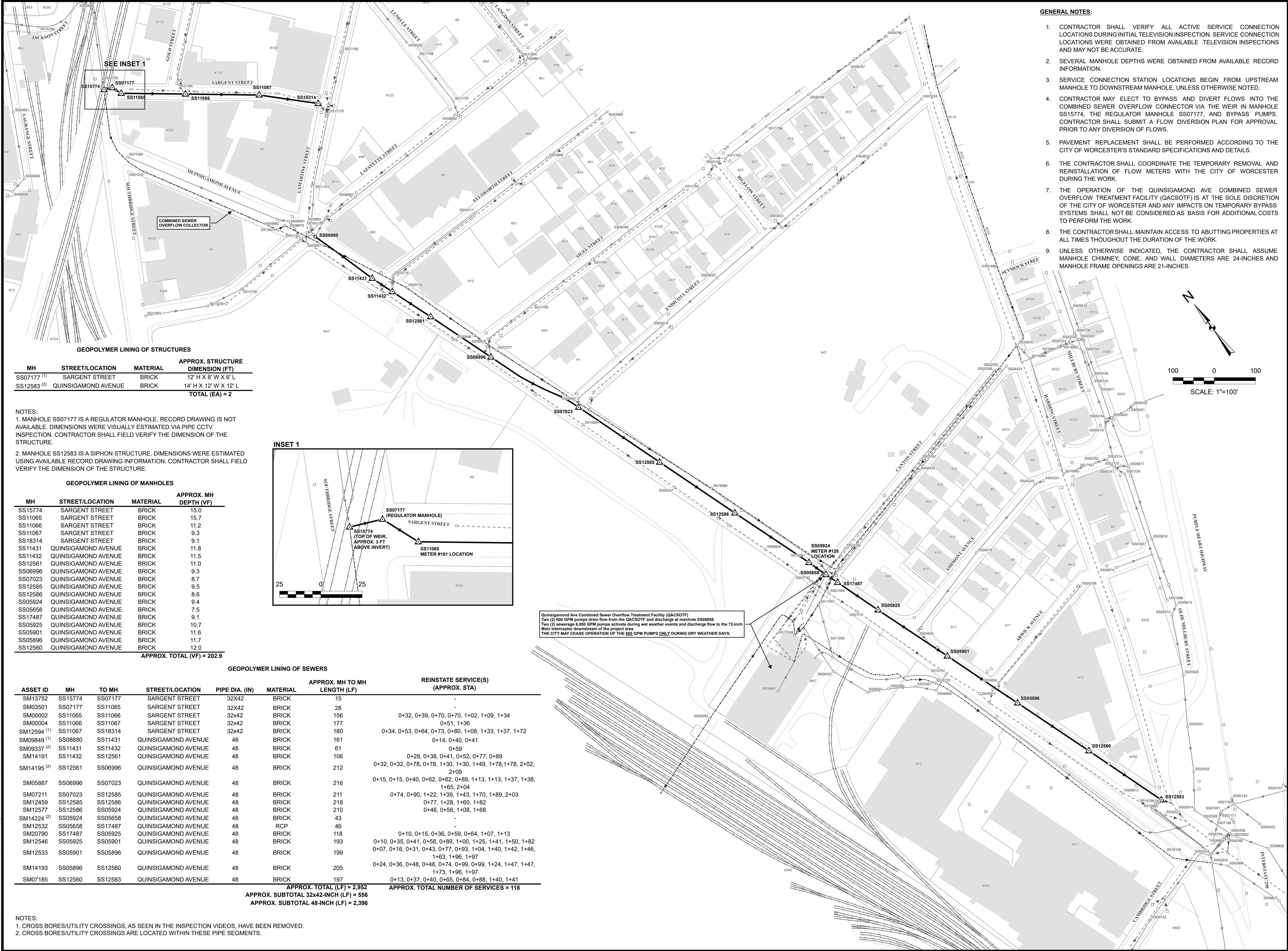
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ABBREVIATIONS, NOTES, AND LEGEND

Sheet Number:

G001



GENERAL NOTES:

- CONTRACTOR SHALL VERIFY ALL ACTIVE SERVICE CONNECTION LOCATIONS DURING INITIAL TELEVISION INSPECTION. SERVICE CONNECTION LOCATIONS WERE OBTAINED FROM AVAILABLE TELEVISION INSPECTIONS AND MAY NOT BE ACCURATE.
- SEVERAL MANHOLE DEPTHS WERE OBTAINED FROM AVAILABLE RECORD INFORMATION.
- SERVICE CONNECTION STATION LOCATIONS BEGIN FROM UPSTREAM MANHOLE TO DOWNSTREAM MANHOLE, UNLESS OTHERWISE NOTED.
- CONTRACTOR MAY ELECT TO BYPASS AND DIVERT FLOWS INTO THE COMBINED SEWER OVERFLOW CONNECTOR VIA THE WEIR IN MANHOLE SS15774, THE REGULATOR MANHOLE SS07177, AND BYPASS PUMPS. CONTRACTOR SHALL SUBMIT A FLOW DIVERSION PLAN FOR APPROVAL PRIOR TO ANY DIVERSION OF FLOWS.
- PAVEMENT REPLACEMENT SHALL BE PERFORMED ACCORDING TO THE CITY OF WORCESTER'S STANDARD SPECIFICATIONS AND DETAILS.
- THE CONTRACTOR SHALL COORDINATE THE TEMPORARY REMOVAL AND REINSTALLATION OF FLOW METERS WITH THE CITY OF WORCESTER DURING THE WORK.
- THE OPERATION OF THE QUINSIGAMOND AVE COMBINED SEWER OVERFLOW TREATMENT FACILITY (QACOTF) IS AT THE SOLE DISCRETION OF THE CITY OF WORCESTER AND ANY IMPACTS ON TEMPORARY BYPASS SYSTEMS SHALL NOT BE CONSIDERED AS BASIS FOR ADDITIONAL COSTS TO PERFORM THE WORK.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ABUTTING PROPERTIES AT ALL TIMES THOUGHOUT THE DURATION OF THE WORK.
- UNLESS OTHERWISE INDICATED, THE CONTRACTOR SHALL ASSUME MANHOLE CHIMNEY, CONE, AND WALL DIAMETERS ARE 24-INCHES AND MANHOLE FRAME OPENINGS ARE 21-INCHES.

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

WESTERN INTERCEPTOR (QUINSIGAMOND AVE) SEWER REHABILITATION PROJECT

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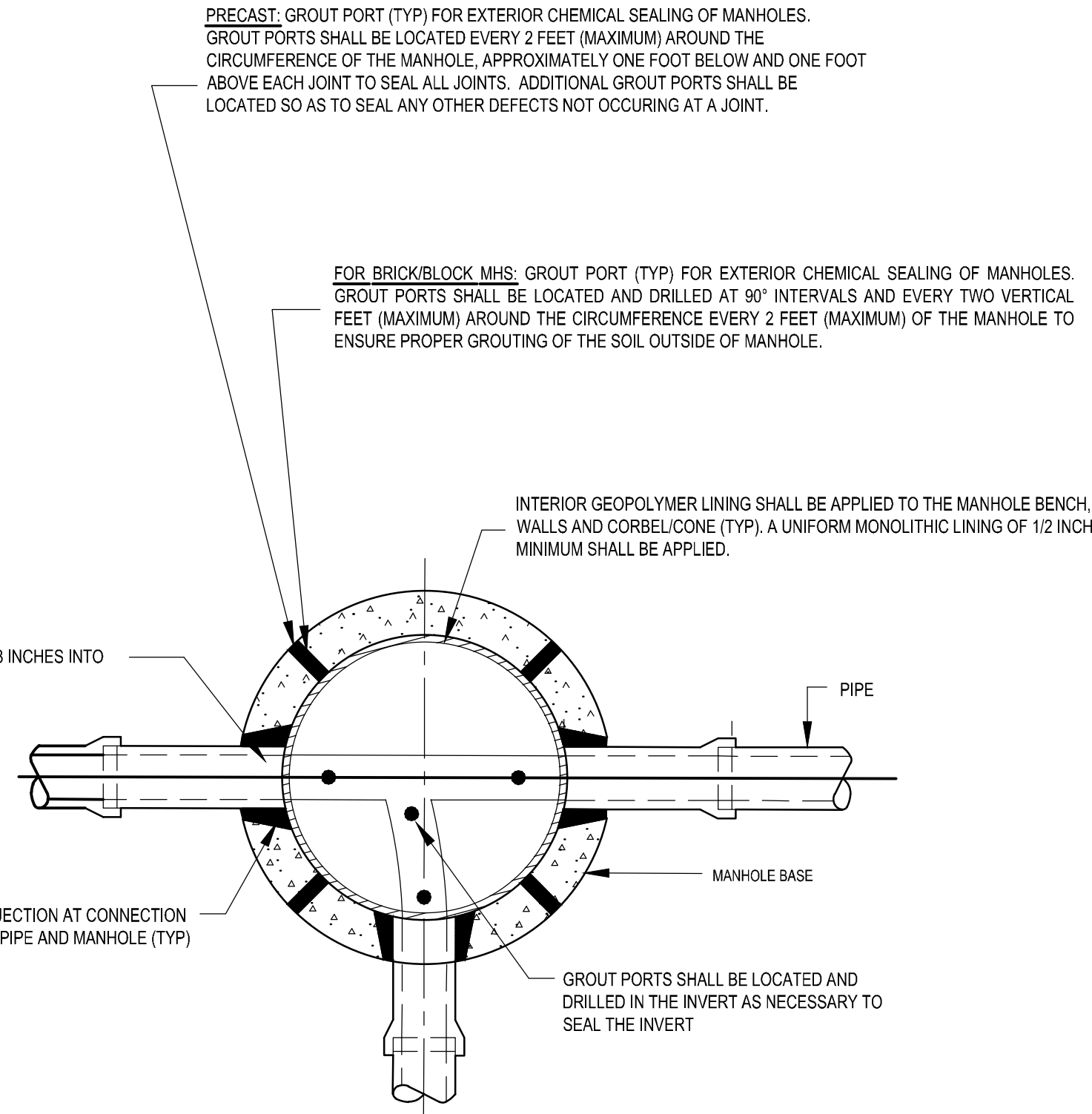
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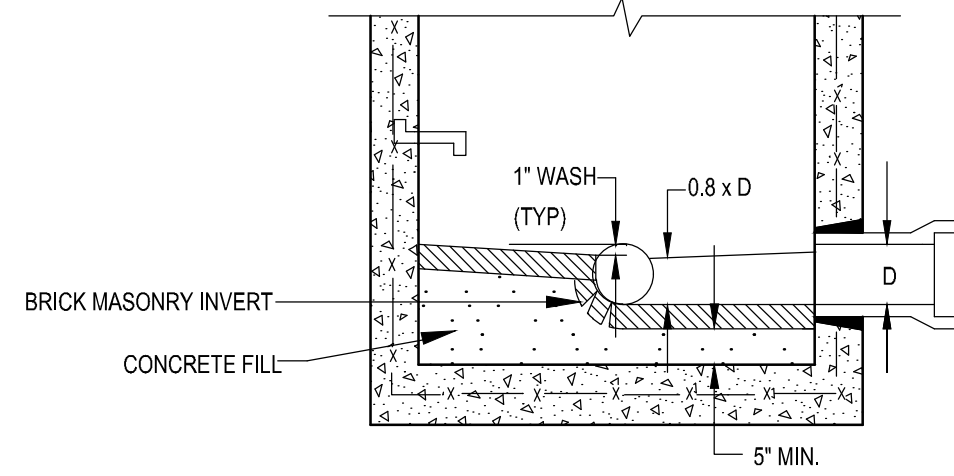
PLANS AND TABLES

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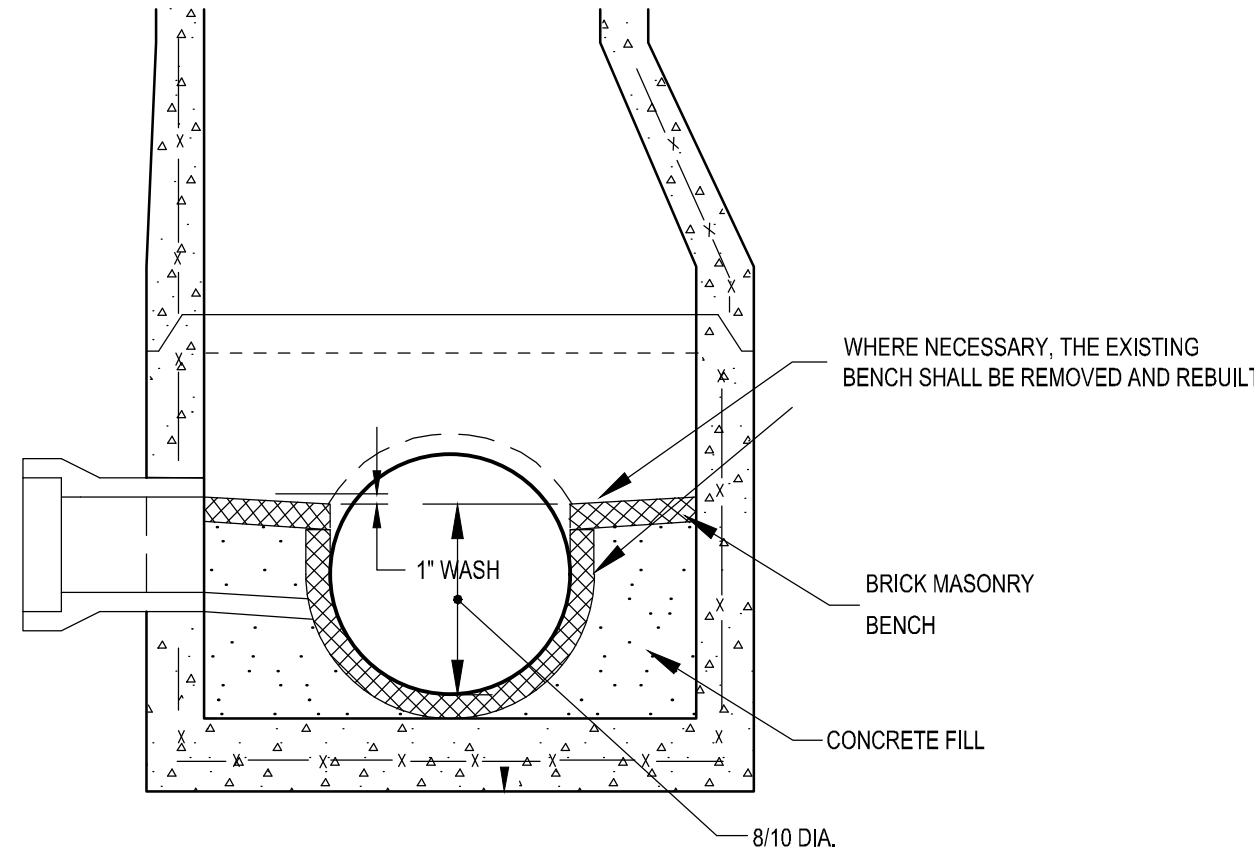
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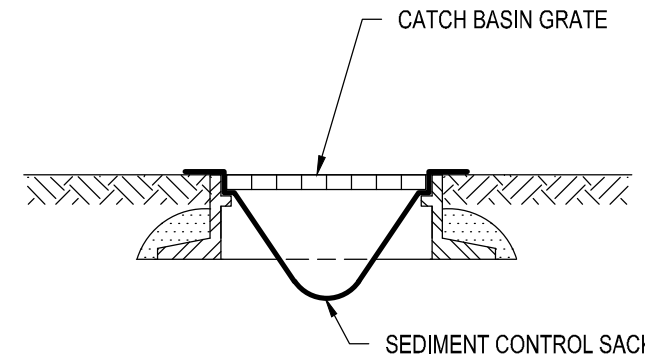
MANHOLE AND STRUCTURE REHABILITATION PLAN
N.T.S.



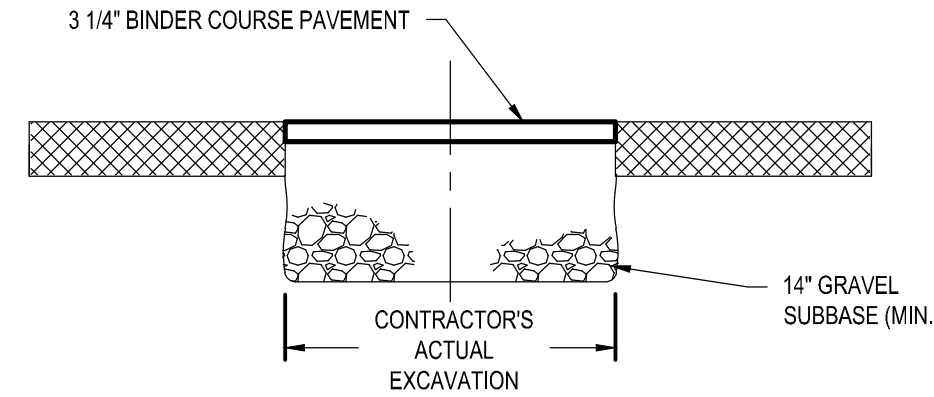
SEWER MANHOLE BENCH AND INVERT DETAIL
N.T.S.



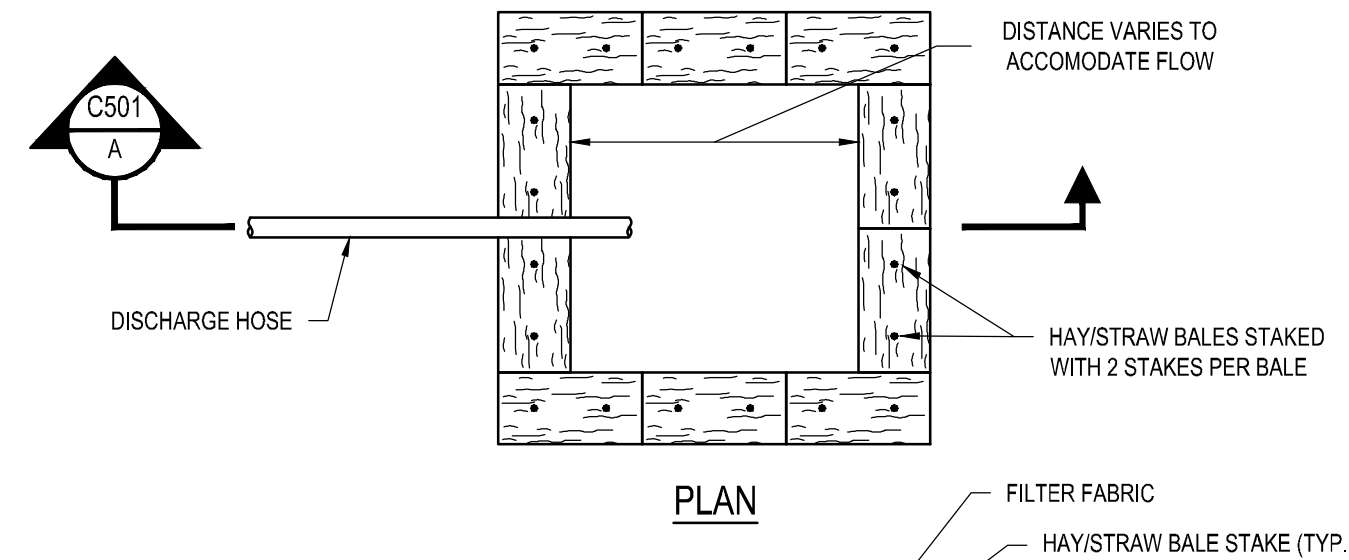
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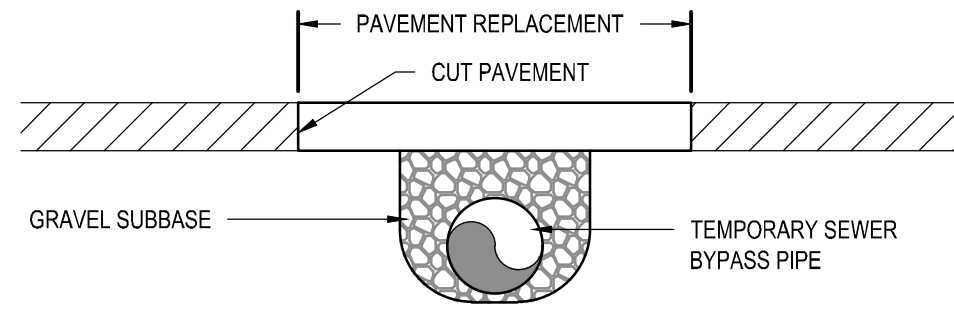
SILT SACK DETAIL
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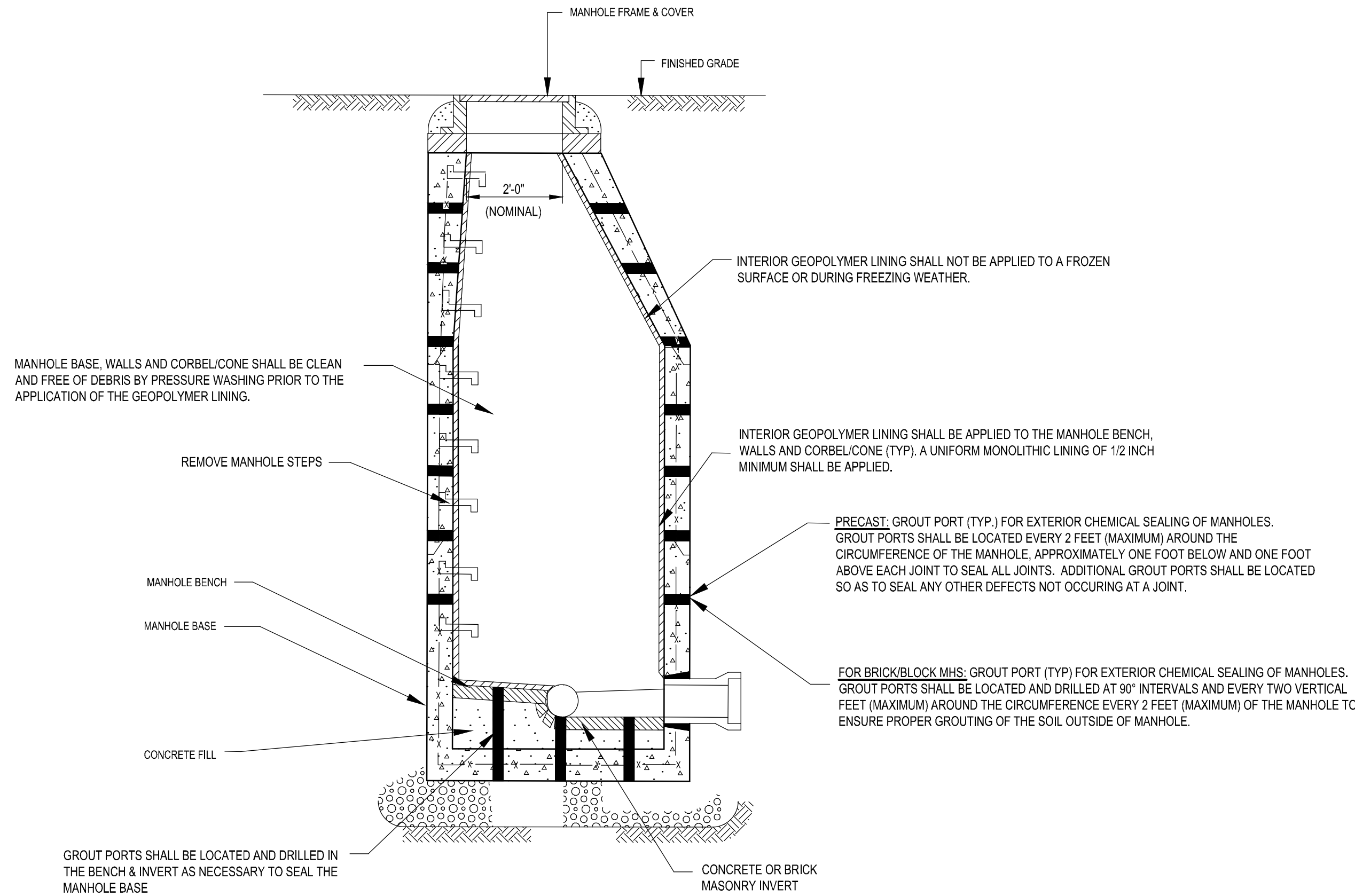
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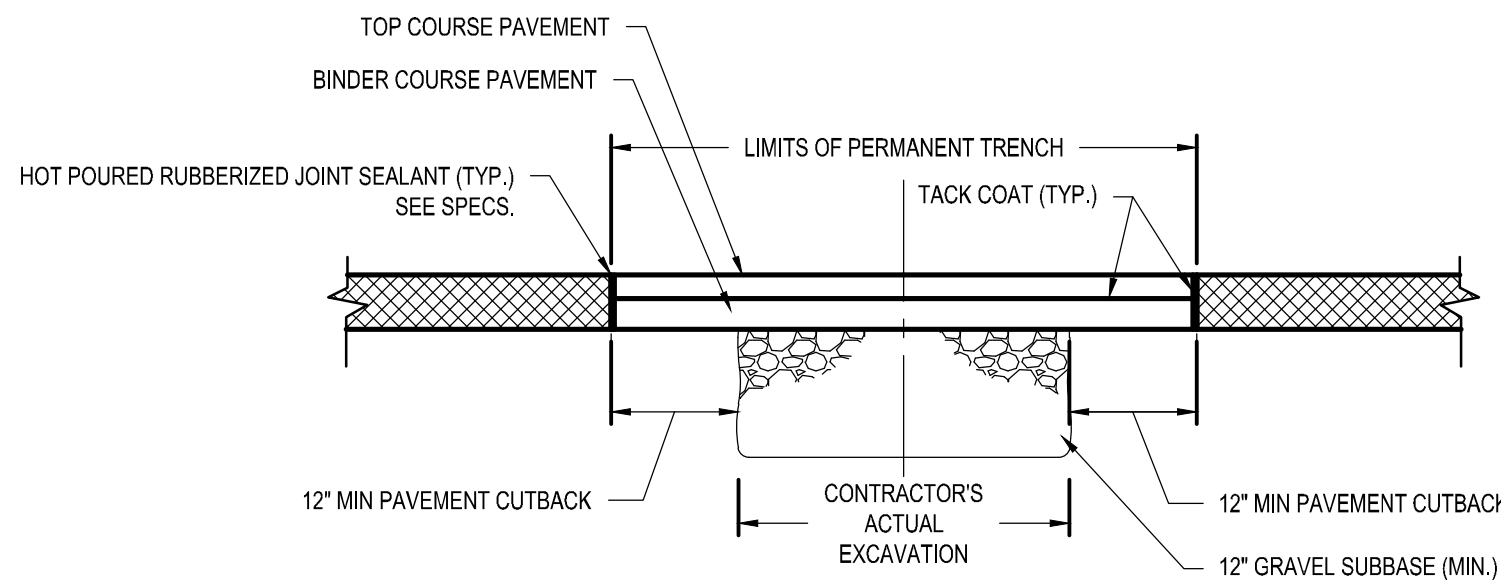
DEWATERING DISCHARGE DISPOSAL DETAIL
N.T.S.



TEMPORARY SEWER BYPASS PIPE ROAD AND DRIVEWAY CROSSING DETAIL
N.T.S.



MANHOLE AND STRUCTURE REHABILITATION DETAIL
N.T.S.



BITUMINOUS CONCRETE PAVEMENT COURSE THICKNESS CHART		
ROADWAY	BINDER COURSE	TOP COURSE
ROADWAY UP TO 12% GRADE	2"	1.5" OR AS DIRECTED
ROADWAY FROM 12% TO 16% GRADE	2.25"	2" OR AS DIRECTED
ROADWAY 16% AND OVER	2.75"	2" OR AS DIRECTED
DRIVEWAY	1.5"	1"
SIDEWALK	1"	1"

NOTES:

- 3/4-INCH TEMPORARY TRENCH PATCH SHALL BE INSTALLED AS SOON AS PRACTICABLE AFTER INSTALLATION OF INDIVIDUAL PIPELINE SEGMENTS. PERMANENT TRENCH PAVEMENT SHALL BE INSTALLED NOT LESS THAN 90 DAYS BUT NOT MORE THAN 120 DAYS FROM THE DATE OF TEMPORARY PATCH. SEE WORCESTER STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS FOR THE SCHEDULE FOR PERMANENT PATCHING TRENCHES. PERMANENT TRENCH PAVEMENT SHALL BE INSTALLED ONLY WITH THE APPROVAL OF THE OWNER/ENGINEER. NO UNPAVED TRENCHES SHALL BE LEFT UNPAVED OVER THE WEEKEND.
- PRIOR TO INSTALLATION OF PERMANENT TRENCH PAVEMENT, THE ROADWAY SHALL BE SAW CUT A MINIMUM OF 12-INCHES BEYOND THE LIMITS OF THE TRENCH WIDTH. AFTER PERMANENT TRENCH PAVEMENT IS INSTALLED, ALL SEAMS SHALL BE TREATED USING HOT POURED RUBBERIZED EMULSIFIED ASPHALT SEALANT.
- PERMANENT PATCH FOR ROADS HAVING A PAVING BLOCK OR CONCRETE BASE SHALL INCLUDE A LAYER OF CONCRETE EQUAL TO THE DEPTH OF THE EXISTING CONCRETE OR PAVING BLOCK. IN SUCH CASES THE DEPTH OF THE GRAVEL BACKFILL SHALL NOT BE LESS THAN 12-INCHES.
- WHERE EXISTING PAVEMENT THICKNESS IS GREATER THAN THAT INDICATED ON THE CHART, THE CONTRACTOR SHALL MATCH EXIST PAVEMENT OR AS DIRECTED BY THE OWNER/ENGINEER. HOWEVER, THE BINDER WILL BE PLACED IN COURSES NOT EXCEEDING 2.5-INCHES. MULTIPLE BINDER COURSES WILL BE LAID IF THE EXIST THICKNESS CONDITIONS WARRANT.

PERMANENT TRENCH PAVEMENT REPLACEMENT DETAIL
N.T.S.

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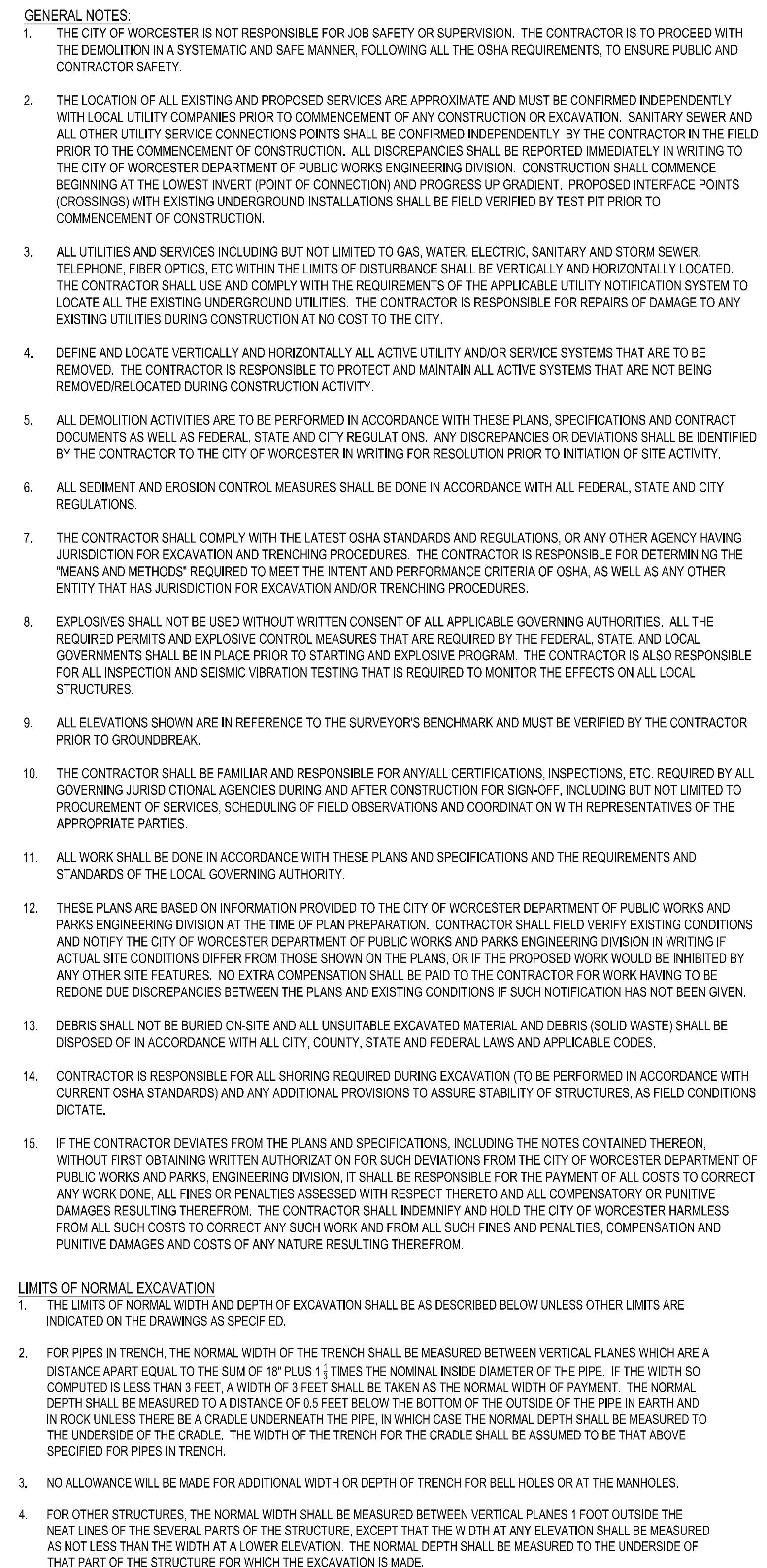
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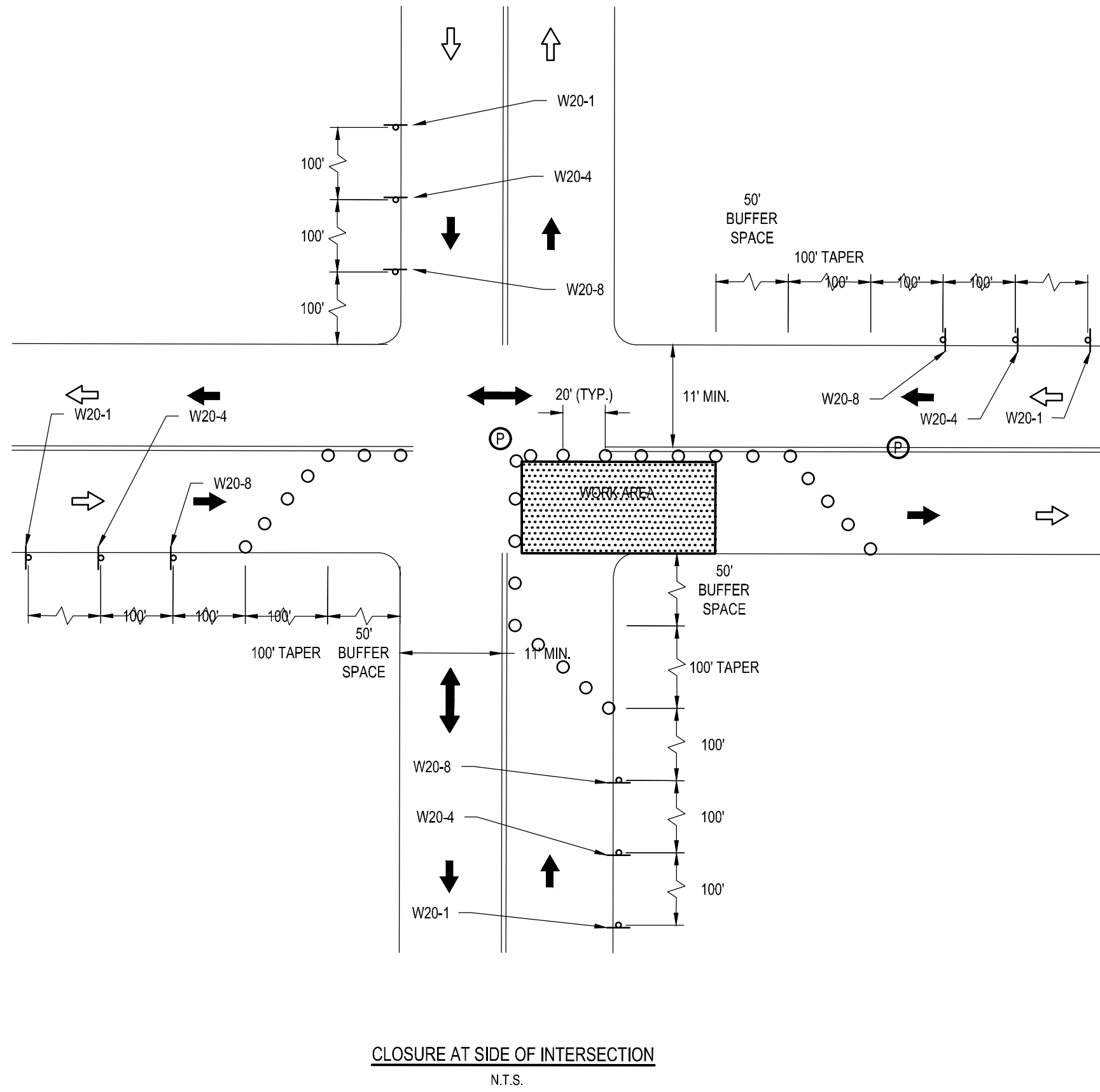
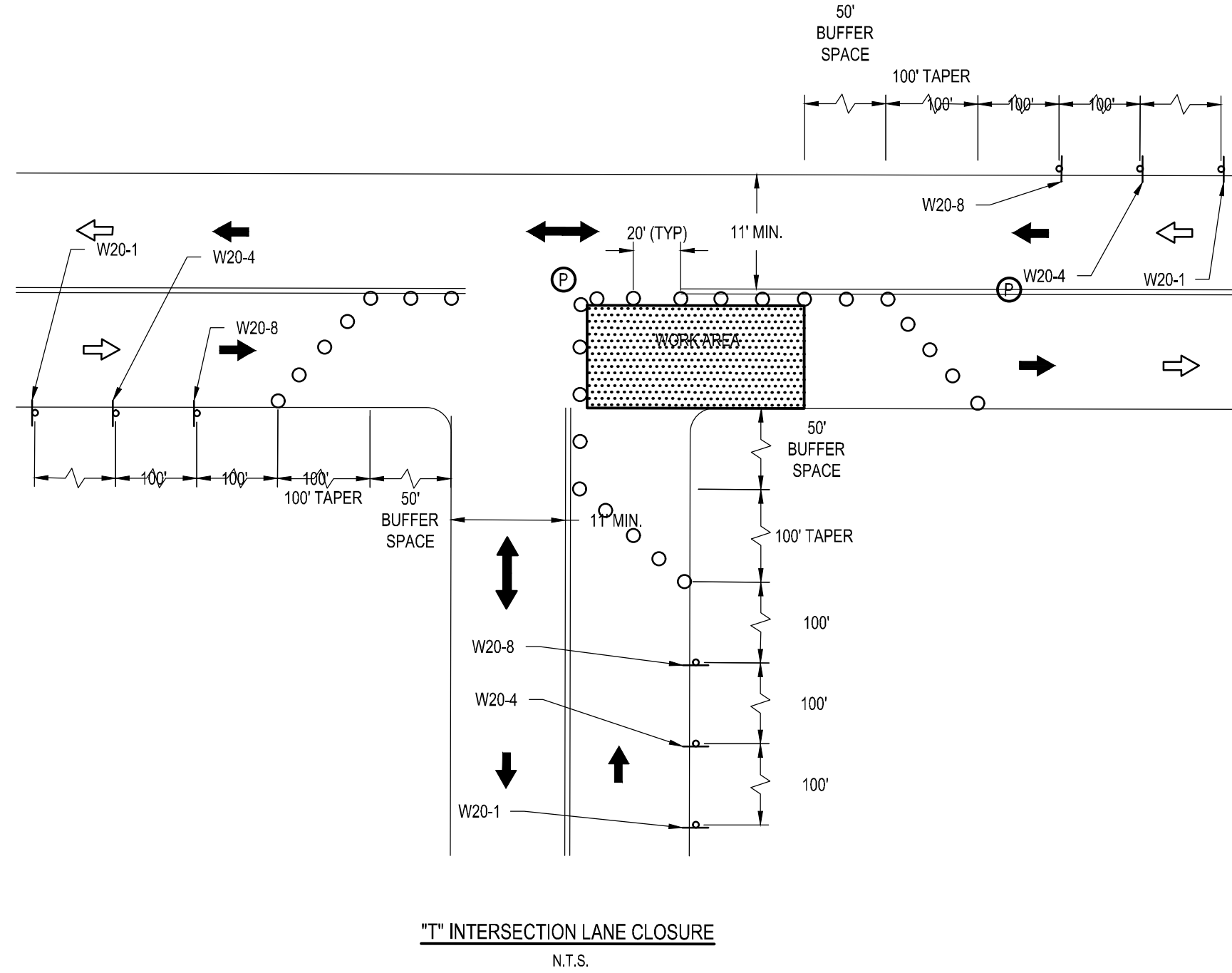
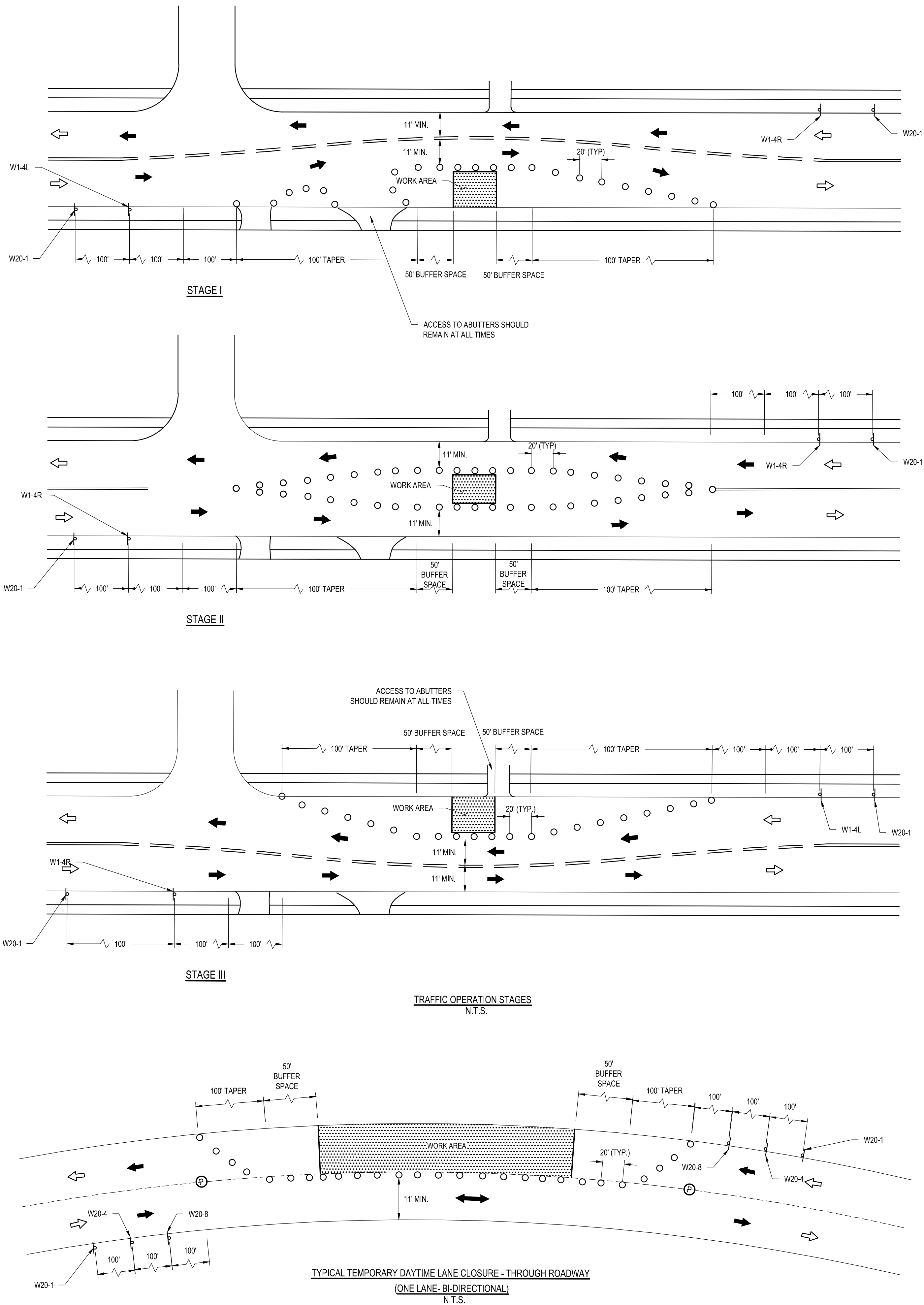
CONSTRUCTION DETAILS I

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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"	
G20-2	36"	18"	

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, AND 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 ITS SOLE RESPONSIBILITY FOR CONSTRUCTION SITE SAFETY.

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Seal:

FRANK E. OCCHIPINTI
CIVIL
No. 54761
REGISTERED PROFESSIONAL ENGINEER

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Sheet Number: **C503**