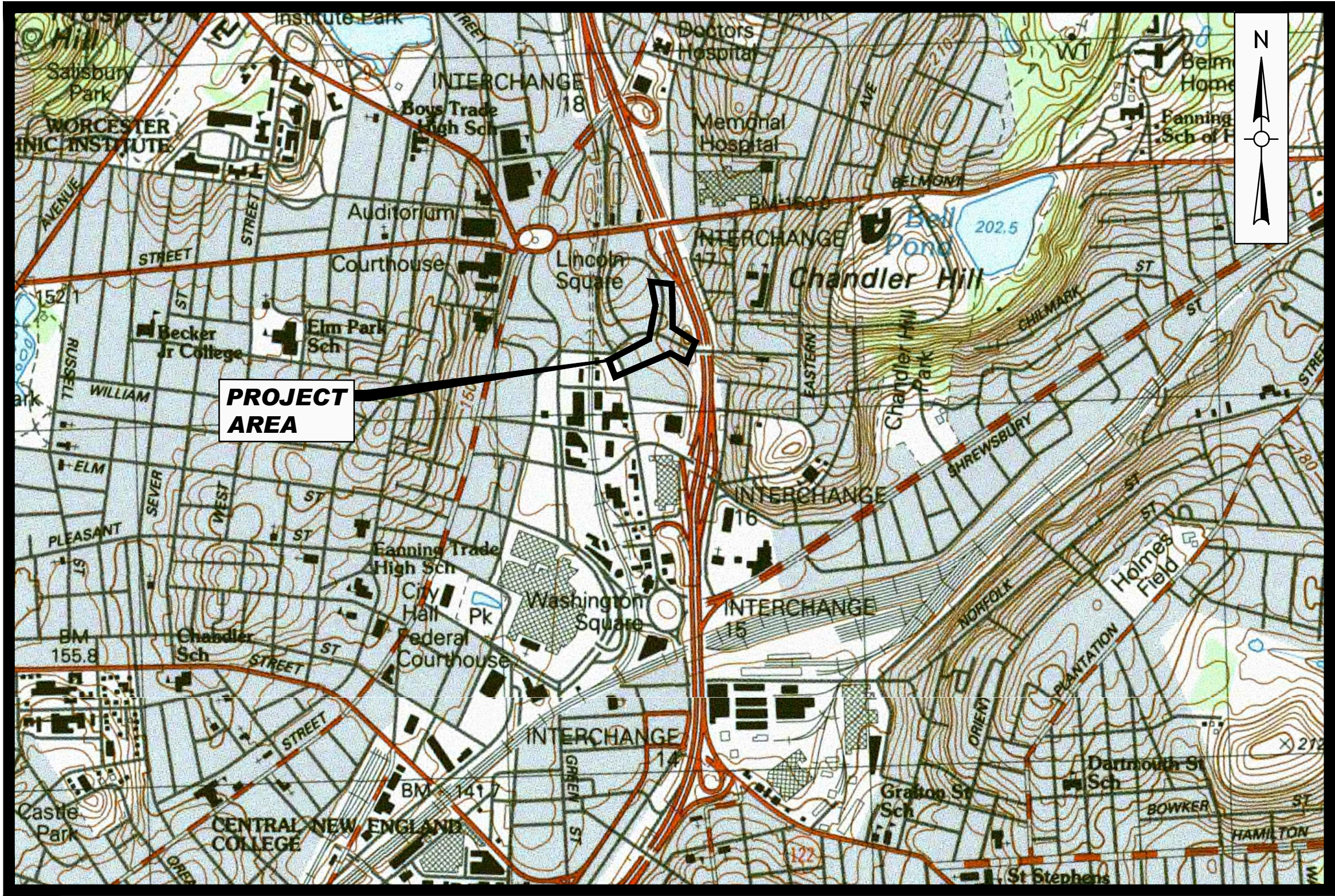


CITY OF WORCESTER, MASSACHUSETTS  
DEPARTMENT OF PUBLIC WORKS AND PARKS  
VARIOUS STREETS 2024 SEWER REHABILITATION PROJECT



LOCUS MAP  
SCALE : 1"=1,000'

DRAWING INDEX	
SHEET	TITLE
G000	COVER AND DRAWING INDEX
G001	ABBREVIATIONS, NOTES AND LEGEND
C101	PLANS AND TABLES
C501	CONSTRUCTION DETAILS SHEET
C502	LAUREL STREET AT SUMMER STREET CSO REGULATOR DETAIL
C503	WORCESTER STANDARD CONSTRUCTION DETAILS
C504	CONSTRUCTION ZONE SAFETY PLAN

CONTRACT NO. S25-2  
BID # 8453-J6



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



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

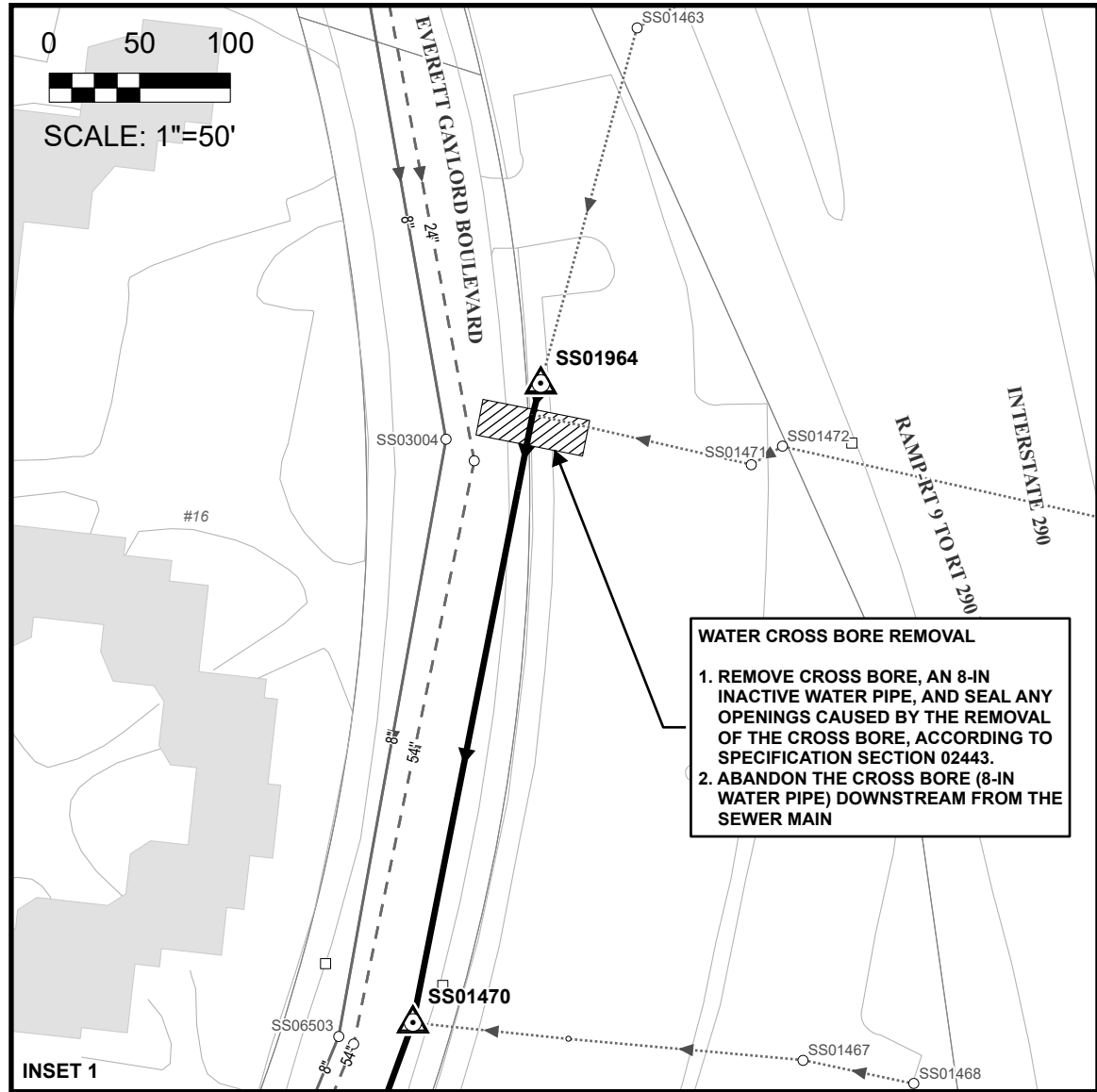
Issued Date:  
**JUNE 2025**  
**811**  
Know what's below.  
Call before you dig.

Issued For:  
**RELEASED FOR CONSTRUCTION**









GENERAL 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.
- 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 MILLBROOK OVERFLOW COLLECTOR VIA THE 54-IN DRAIN PIPES. CONTRACTOR SHALL SUBMIT A FLOW DIVERSION PLAN FOR APPROVAL PRIOR TO ANY DIVERSION OF FLOWS.
- UNLESS OTHERWISE INDICATED, THE CONTRACTOR SHALL ASSUME CHIMNEY, CONE, AND MANHOLE WALL DIAMETERS ARE 24-INCHES AND MANHOLE FRAME OPENINGS ARE 21-INCHES.

EPOXY LINING AND EXTERIOR SEALING OF SEWER STRUCTURE

MH	STREET/LOCATION	MATERIAL	APPROX. STRUCTURE DIMENSION (FT)
SS07174 <sup>(1)</sup>	LAUREL STREET	BRICK	6' 8" H X 4' 8" W X 9' L
			TOTAL (EA) = 1

NOTES:

- RECORD DRAWING OF THE STRUCTURE IS ATTACHED, SEE SHEET C502

EPOXY LINING AND EXTERIOR SEALING OF SEWER MANHOLES

MH	STREET/LOCATION	MATERIAL	APPROX. MH DEPTH (VF)
SS01470	EVERETT GAYLORD BOULEVARD	BRICK	10.6
SS01964	EVERETT GAYLORD BOULEVARD	BRICK	13.2
SS00695	LAUREL STREET	BRICK	11.8
SS00700	LAUREL STREET	BRICK	10.0
SS07499	LAUREL STREET	BRICK	12.5
SS01559	SUMMER STREET	BRICK	10.3
			APPROX. TOTAL (VF) = 68.4

NOTES:

- CONTRACTOR SHALL PERFORM CEMENTITIOUS LINING PRIOR TO EPOXY LINING AT NO ADDITIONAL COST TO THE OWNER.

STRUCTURAL CURED-IN-PLACE PIPE

ASSET ID	MH	TO MH	STREET/LOCATION	PIPE DIA (IN)	MATERIAL	APPROXIMATE MH TO MH LENGTH (LF)	REINSTATE ACTIVE SVC. (APPROX. STA)
SM04114	SS01964	SS01470	EVERETT GAYLORD BOULEVARD	40x60	BRK	180	0+24, 0+29, 0+55, 0+61, 0+65, 0+67, 0+76, 0+88, 1+09, 1+32, 1+38, 1+54, 1+55
SM09249	SS01470	SS07499	EVERETT GAYLORD BOULEVARD	40x60	BRK	338	0+24, 0+34, 0+45, 0+50, 0+60, 0+92, 0+97, 1+47, 1+48, 1+75, 1+78, 1+94, 2+08, 2+37, 2+42, 2+93
SM11058	SS00700	SS07499	LAUREL STREET	20x30	BRK	232	UNK
SM09671	SS07499	SS00695	LAUREL STREET	40x60	BRK	182	0+65, 1+21, 1+43
SM05247	SS00695	SS07174	SUMMER STREET	40x60	BRK	120	0+40, 0+47, 0+87, 1+03
SM07415	SS07174	SS01559	SUMMER STREET	40x60	BRK	42	0+31, 0+34

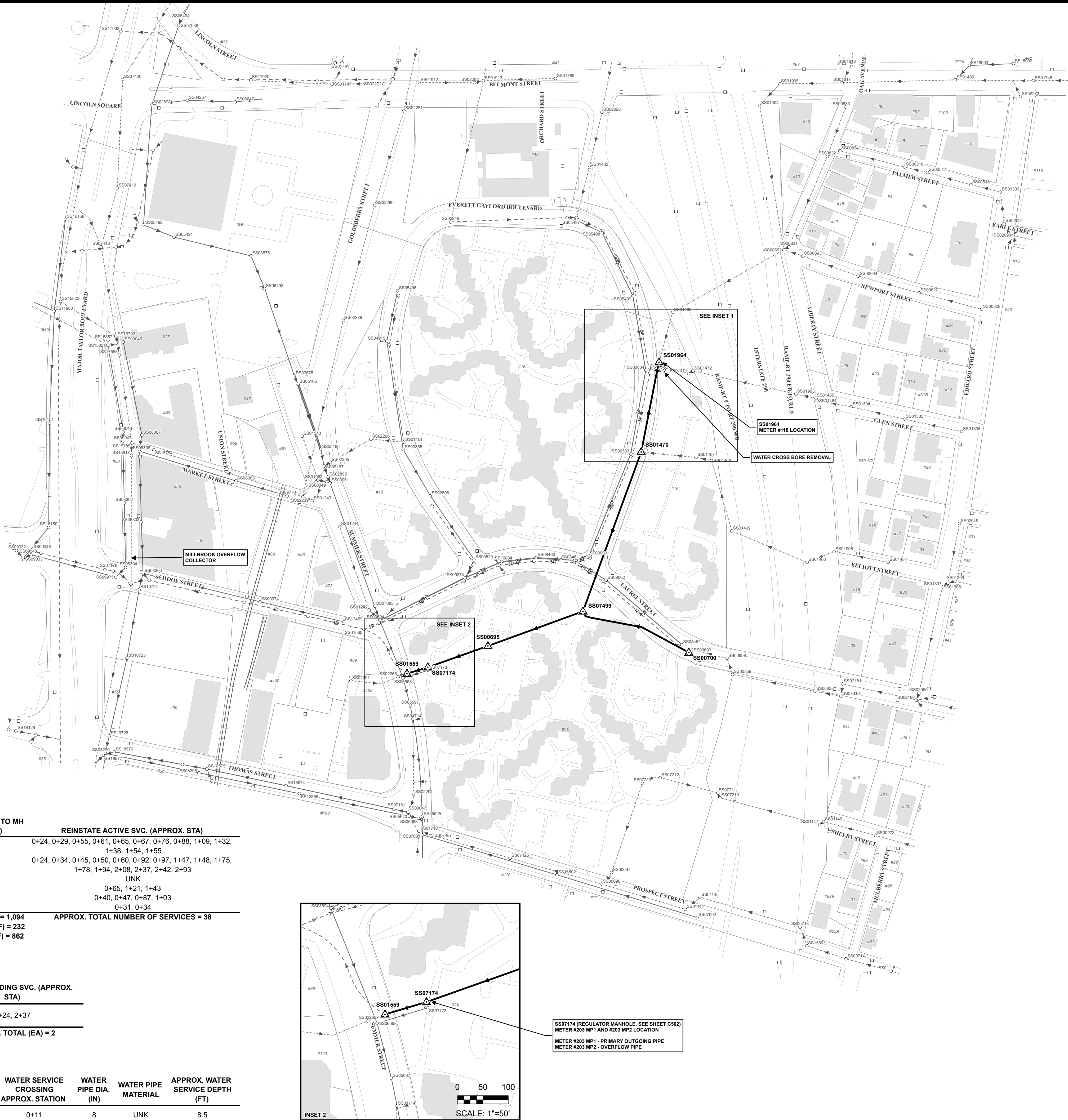
APPROX. TOTAL (LF) = 1,094  
APPROX. 20x30-INCH TOTAL (LF) = 232  
APPROX. 40x60-INCH TOTAL (LF) = 862  
APPROX. TOTAL NUMBER OF SERVICES = 38

CUT PROTRUDING SERVICE CONNECTION

ASSET ID	MH	TO MH	STREET/LOCATION	PIPE DIA (IN)	MATERIAL	APPROXIMATE MH TO MH LENGTH (LF)	CUT PROTRUDING SVC. (APPROX. STA)
SM09249	SS01470	SS07499	EVERETT GAYLORD BOULEVARD	40x60	BRICK	338	0+24, 2+37
							APPROX. TOTAL (EA) = 2

WATER CROSS BORE REMOVAL

ASSET ID	MH	TO MH	STREET/LOCATION	PIPE DIA. (IN)	MATERIAL	APPROX. MH TO MH LENGTH (LF)	APPROX. UPSTREAM MH DEPTH (VF)	APPROX. DOWNSTREAM MH DEPTH (VF)	WATER SERVICE CROSSING APPROX. STATION	WATER PIPE DIA. (IN)	WATER PIPE MATERIAL	APPROX. WATER SERVICE DEPTH (FT)
SM04114	SS01964	SS01470	EVERETT GAYLORD BOULEVARD	40x60	BRK	180	13.2	10.6	0+11	8	UNK	8.5
TOTAL WATER CROSS BORE REMOVAL (EA) = 1												



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



VARIOUS STREETS 2024  
SEWER REHABILITATION PROJECT  
CONTRACT S25-2

Weston & Sampson

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

Consultants:

Revisions:

No.	Date	Description

COA:

THIS DOCUMENT AND ALL ASSOCIATED DOCUMENTS ARE PREPARED FOR THE EXCLUSIVE USE OF THE CLIENT SOLELY FOR THE SPECIFIC PROJECT LISTED ON THE FACE OF THIS DOCUMENT AND INCORPORATES CALCULATIONS AND MEASUREMENTS AVAILABLE FROM THE CLIENT AT THE TIME OF DRAFTING. THE RECIPIENT OF THIS DOCUMENT SHALL NOT DISTRIBUTE, DISSEMINATE, REPRODUCE OR COPY, IN WHOLE OR IN PART, WITHOUT THE WRITTEN PERMISSION OF WESTON & SAMPSON, INC.

Seal:



Issued For:

RELEASED FOR  
CONSTRUCTION

Scale: AS NOTED

Date: JUNE 2025

Drawn By: ZSO

Reviewed By: KDK

Approved By: FEO

W&S Project No.: ENG22-1072

W&S File No.:

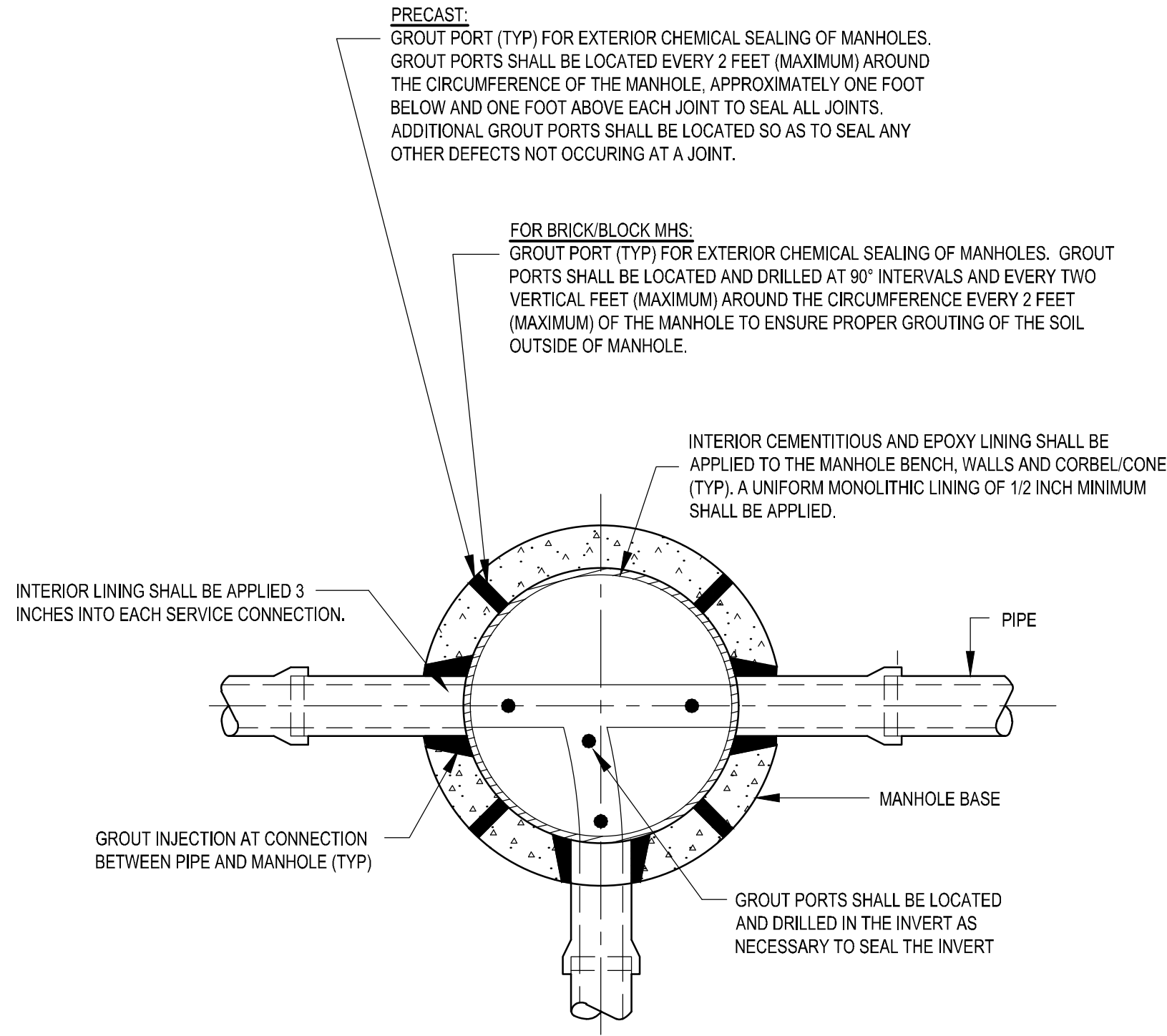
Drawing Title:

PLANS AND TABLES

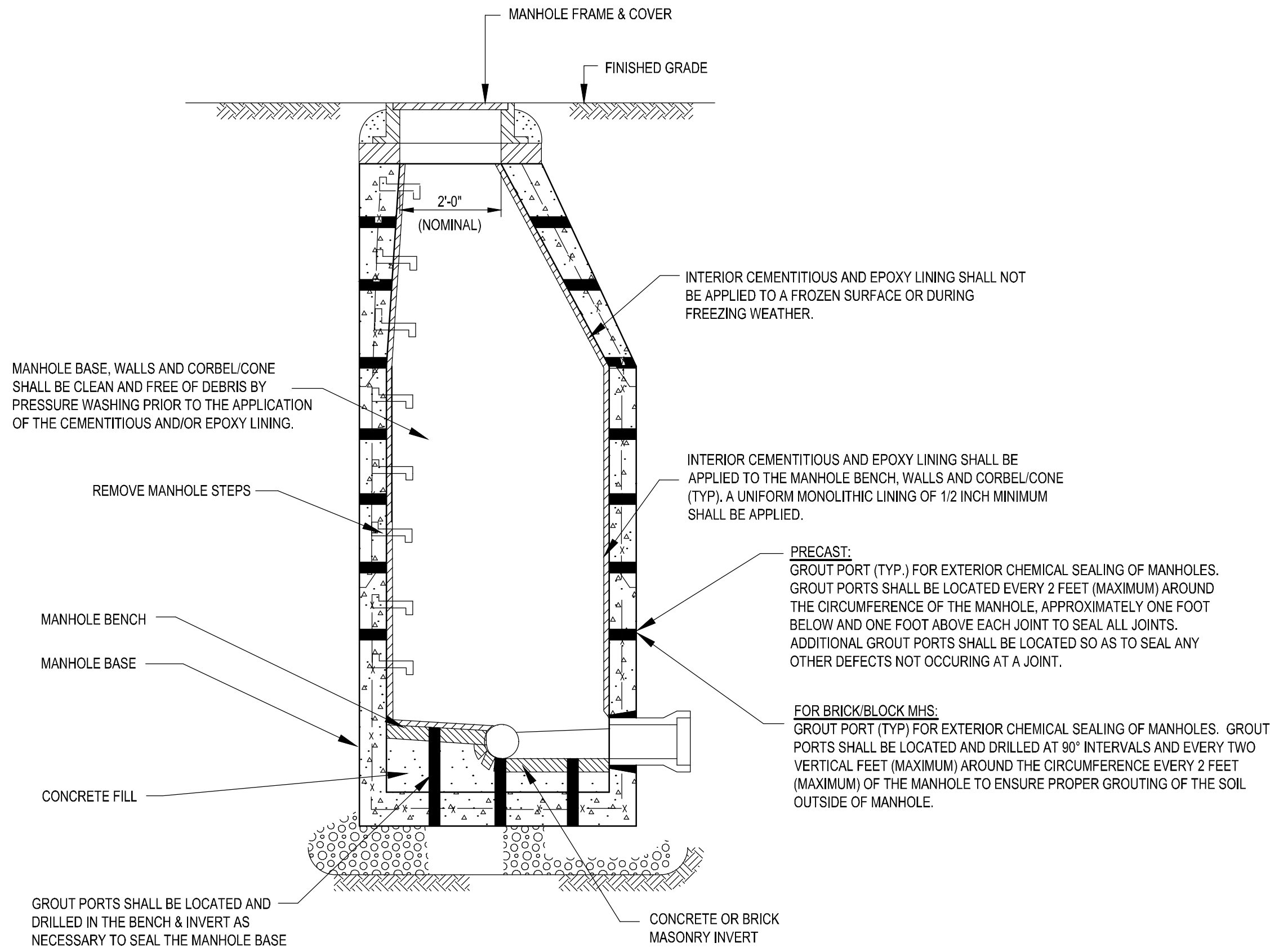
Sheet Number:

C101

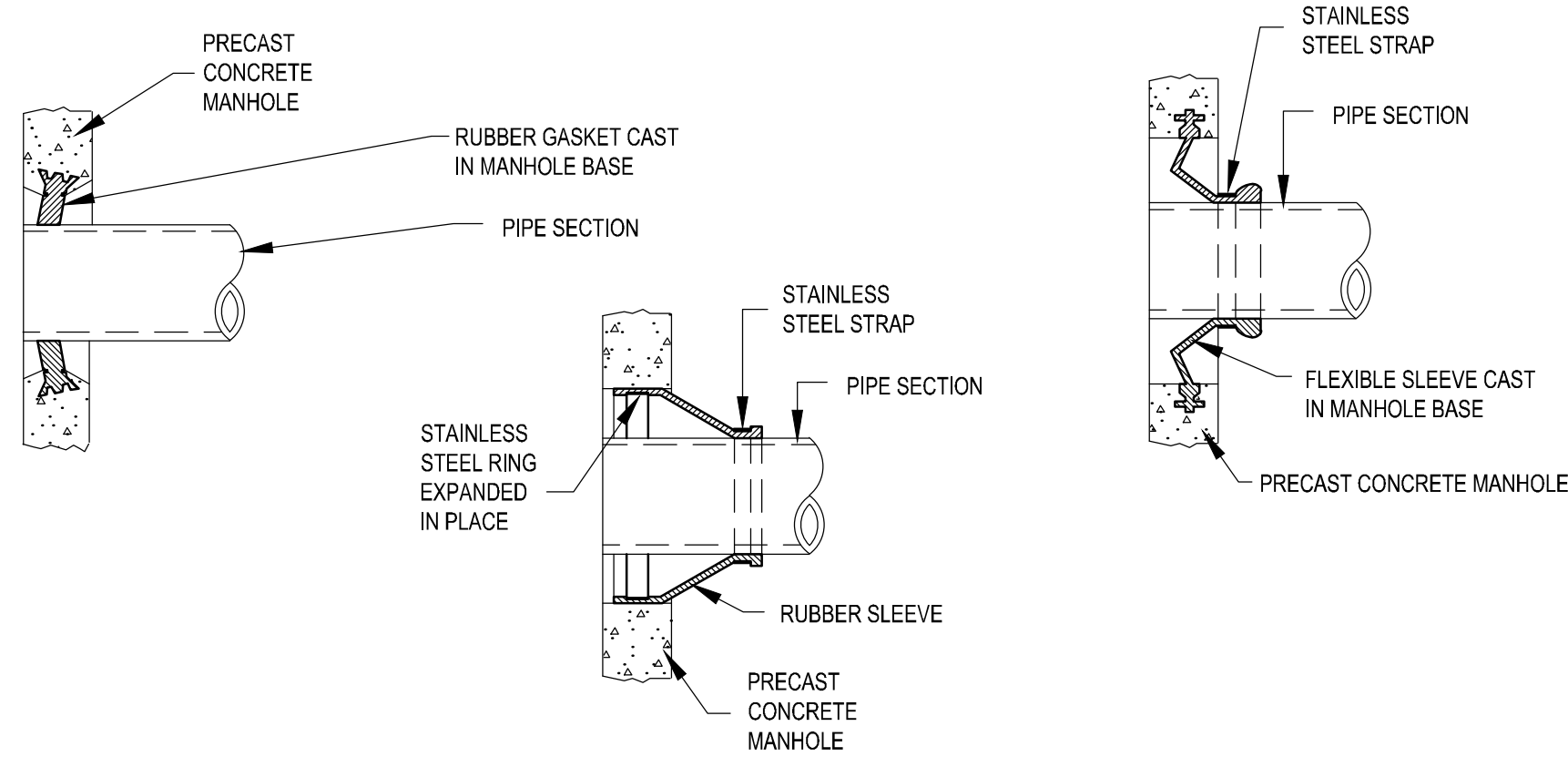




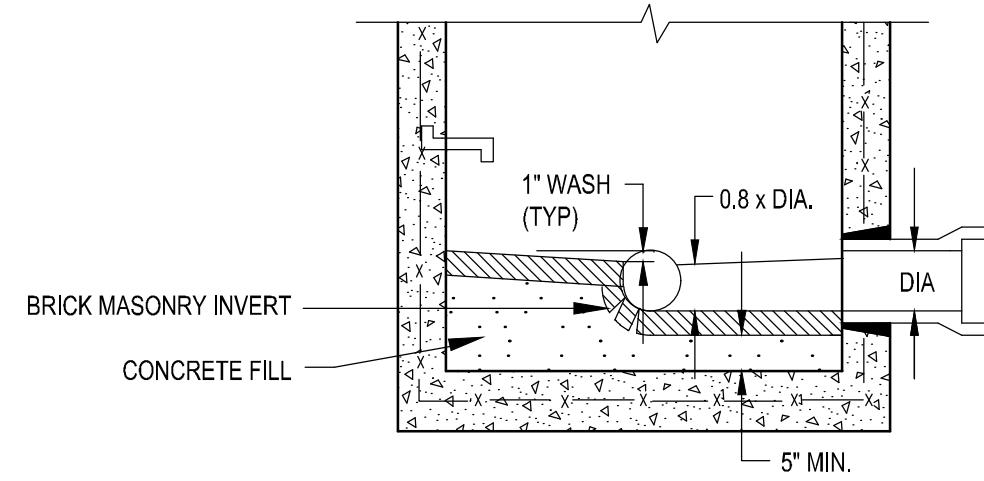
**MANHOLE REHABILITATION PLAN**  
N.T.S.



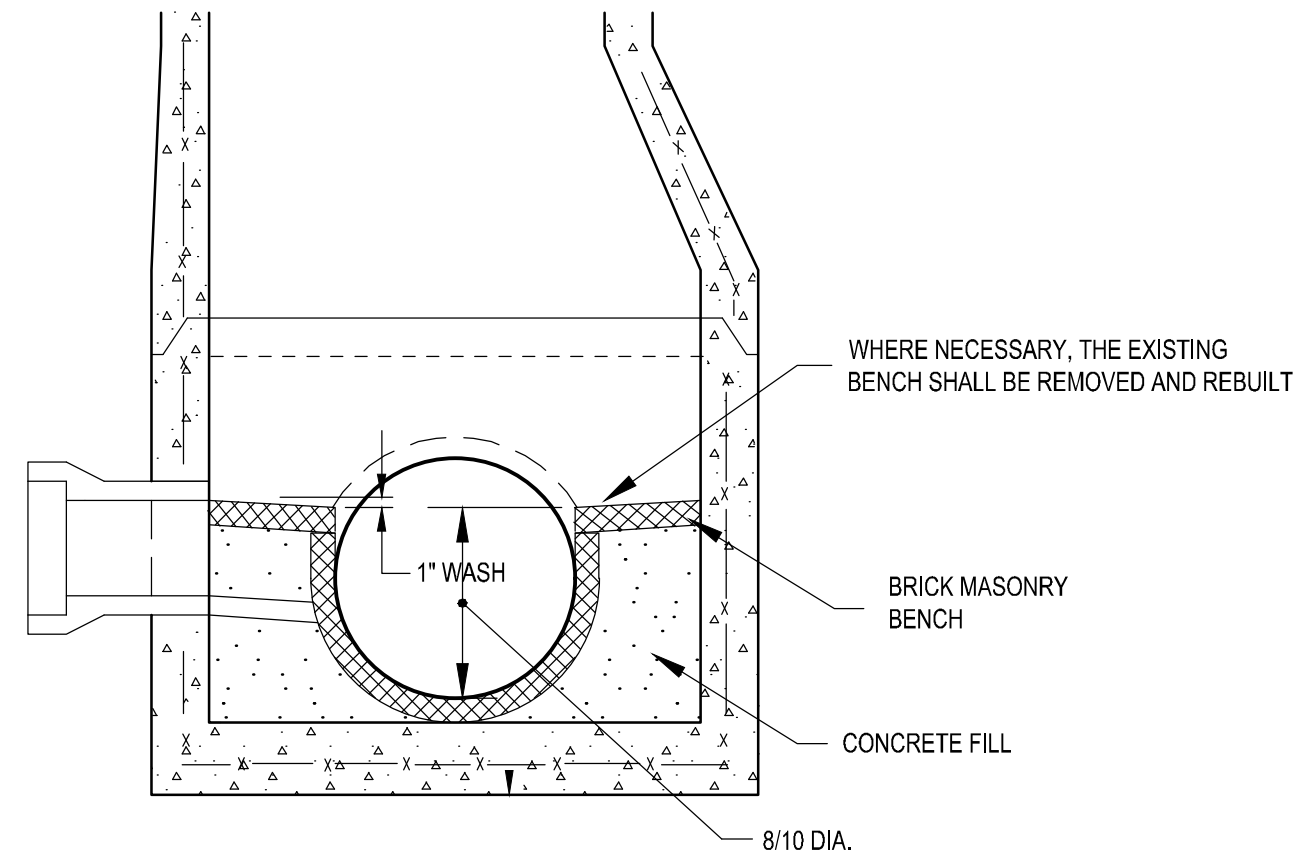
**MANHOLE REHABILITATION DETAIL**  
N.T.S.



**MANHOLE SEAL DETAILS**  
N.T.S.



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



**SEWER MANHOLE BENCH DETAIL**  
N.T.S.

Revisions:		
No.	Date	Description

COA:  
THIS DOCUMENT AND ALL ASSOCIATED DOCUMENTS ARE PREPARED FOR THE EXCLUSIVE USE OF THE CLIENT SOLELY FOR THE SPECIFIC PROJECT LISTED ON THE FACE OF THIS DOCUMENT AND INCORPORATES CALCULATIONS AND MEASUREMENTS AVAILABLE FROM THE CLIENT AT THE TIME OF DRAFTING. THE RECIPIENT OF THIS DOCUMENT SHALL NOT DISTRIBUTE, DISSEMINATE, REPRODUCE OR COPY, IN WHOLE OR IN PART, WITHOUT THE WRITTEN PERMISSION OF WESTON & SAMPSON, INC.



Issued For:  
**RELEASED FOR CONSTRUCTION**

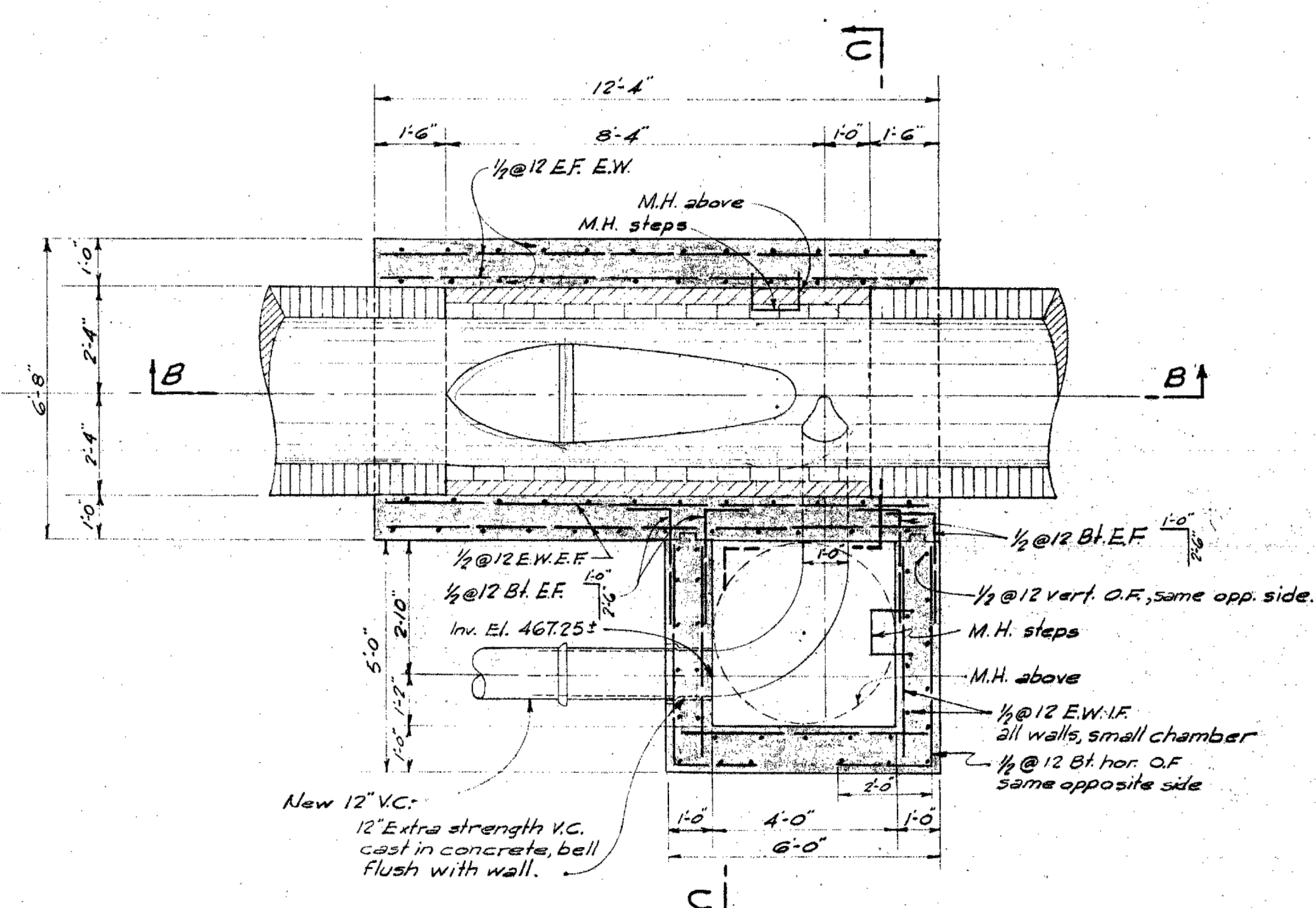
Scale: NO SCALE

Date: JUNE 2025  
Drawn By: LSD  
Reviewed By: KDK  
Approved By: FEO  
W&S Project No.: ENG22 -1072  
W&S File No.: SEE PATH

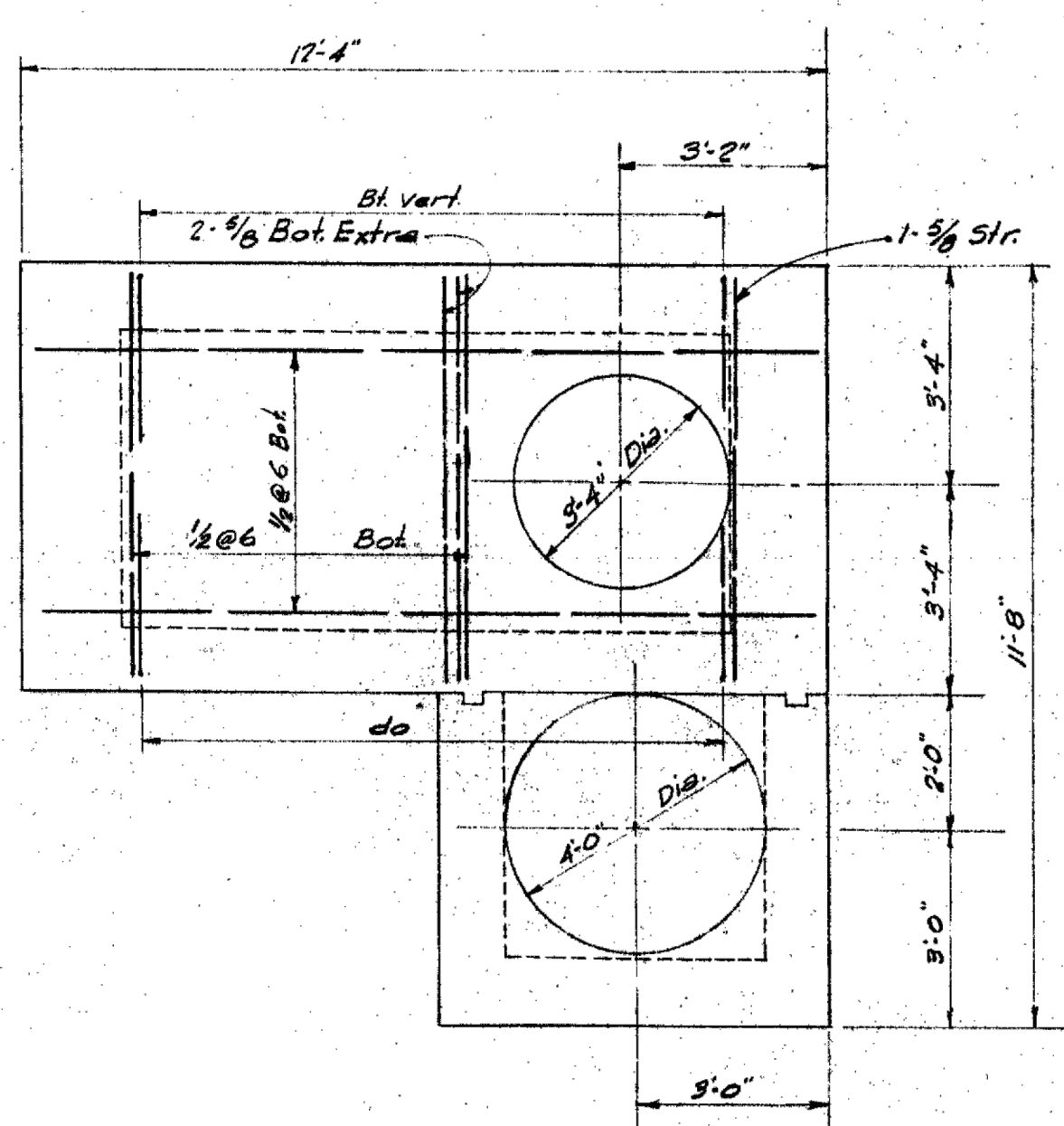
Drawing Title:  
**CONSTRUCTION DETAILS**

Sheet Number:  
**C501**

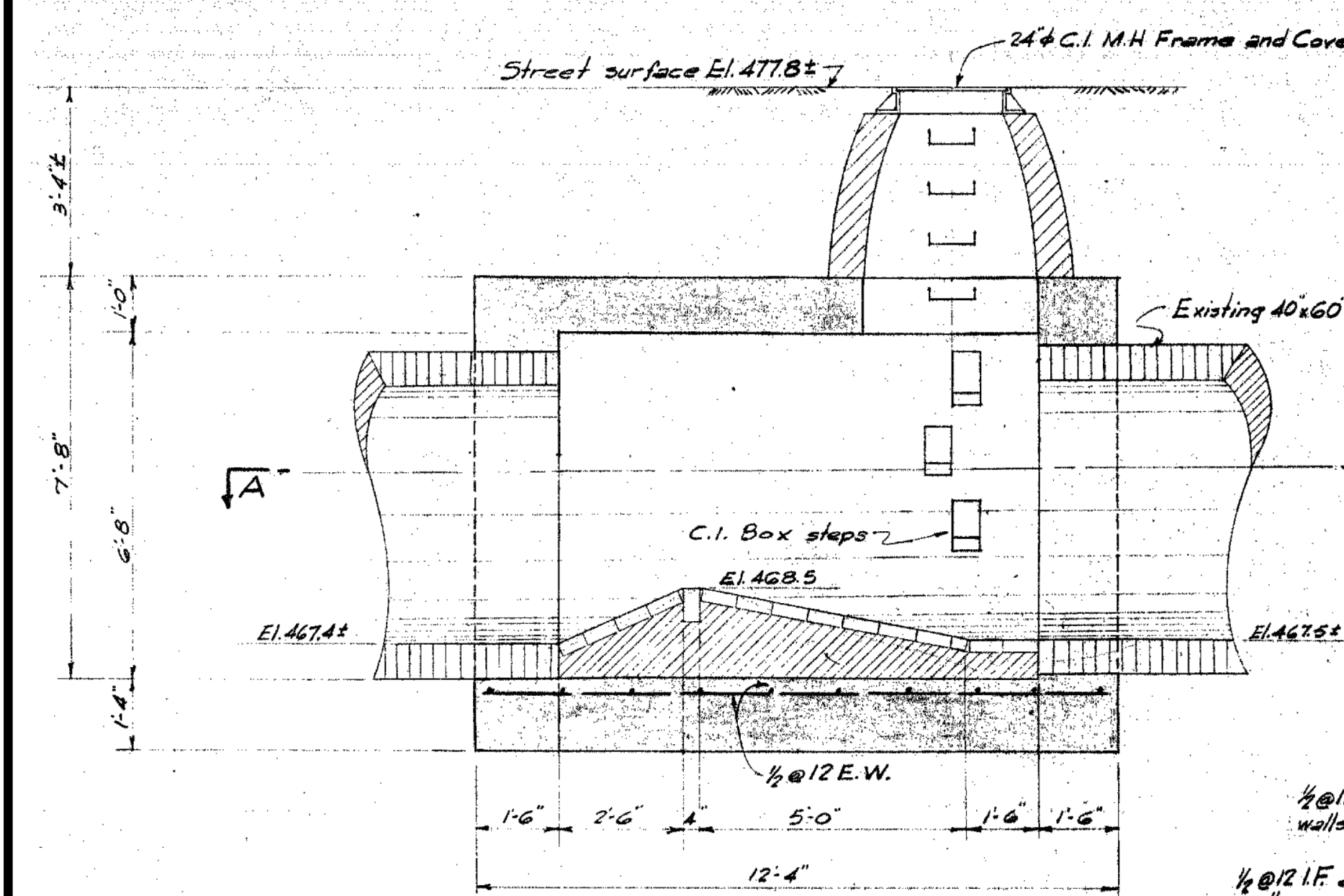




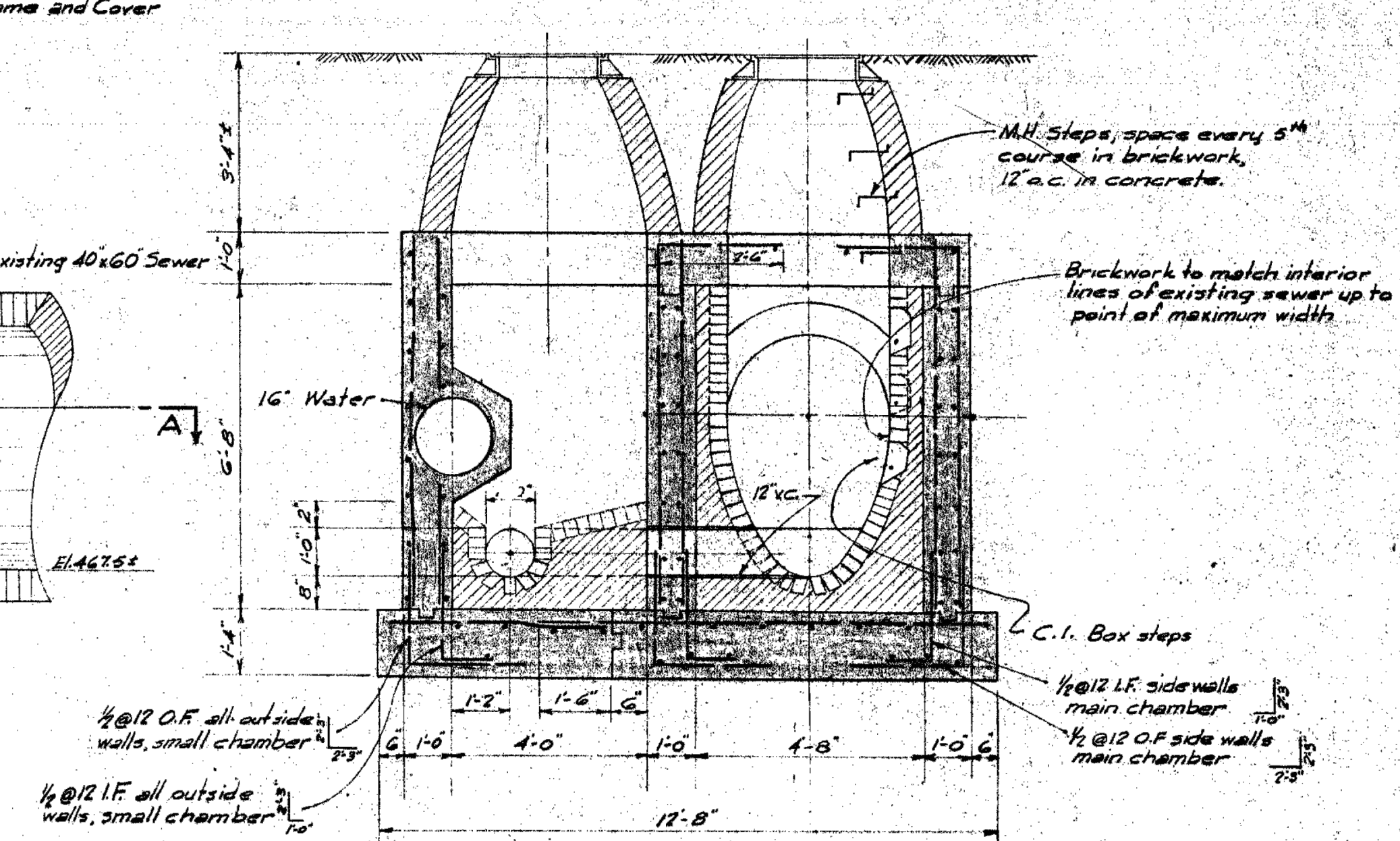
SECTIONAL PLAN A-A



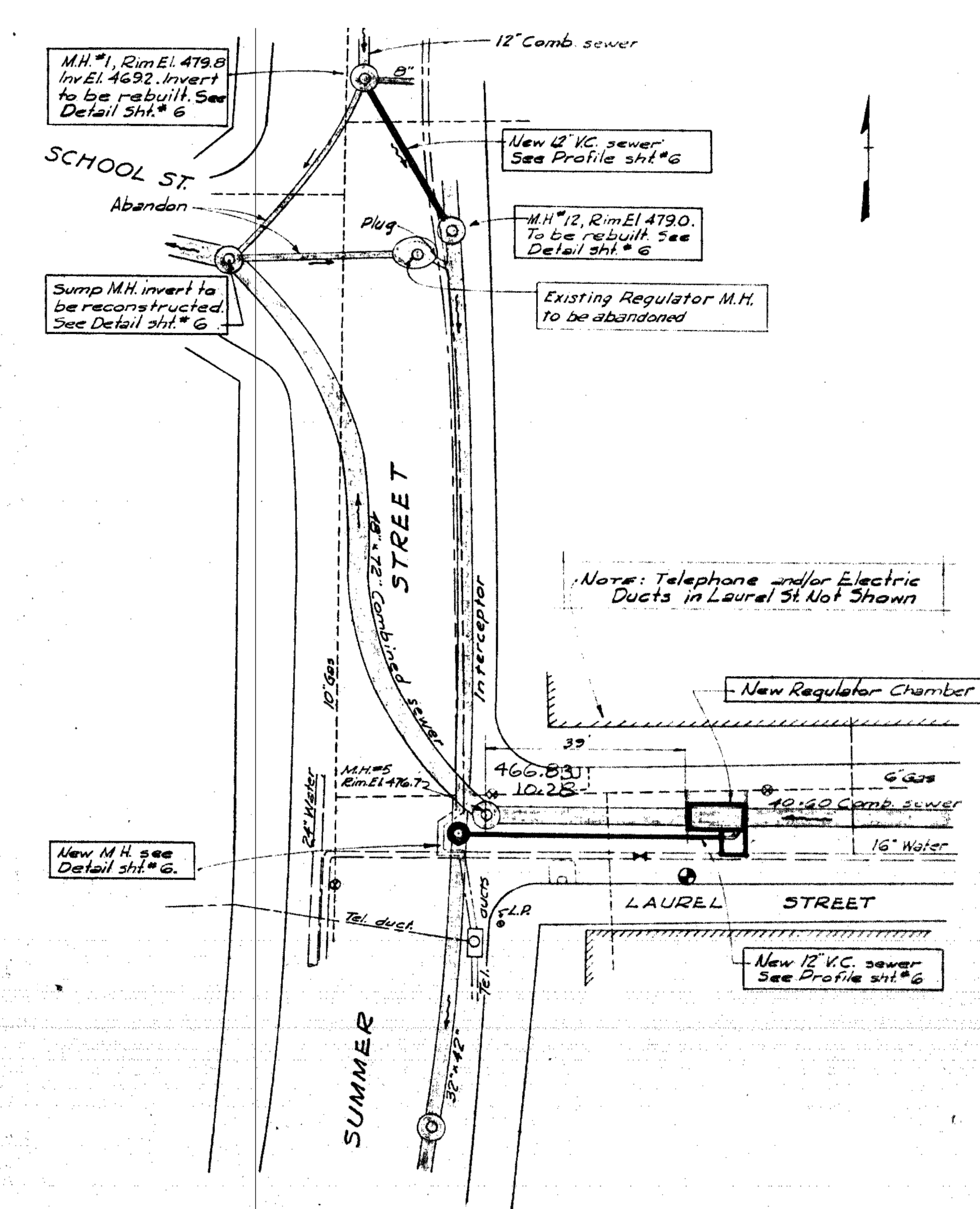
PLAN of TOP SLAB



SECTION B-B



SECTION C-C



KEY PLAN  
Scale: 1"=20'

Project:

CITY OF WORCESTER,  
MASSACHUSETTS  
DEPARTMENT OF PUBLIC WORKS  
AND PARKS

VARIOUS STREETS 2024 SEWER  
REHABILITATION PROJECT  
CONTRACT S25-2

Weston & Sampson

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

Consultants:

Revisions:

No.	Date	Description

COA:

THIS DOCUMENT AND ALL ASSOCIATED DOCUMENTS ARE PREPARED FOR THE EXCLUSIVE USE OF THE CLIENT SOLELY FOR THE SPECIFIC PROJECT LISTED ON THE FACE OF THIS DOCUMENT AND INCORPORATES CALCULATIONS AND MEASUREMENTS AVAILABLE FROM THE CLIENT AT THE TIME OF DRAFTING. THE RECIPIENT OF THIS DOCUMENT SHALL NOT DISTRIBUTE, DISSEMINATE, REPRODUCE OR COPY, IN WHOLE OR IN PART, WITHOUT THE WRITTEN PERMISSION OF WESTON & SAMPSON, INC.

Seal:

Issued For:

RELEASED FOR  
CONSTRUCTION

Scale:

NO SCALE

Date:

JUNE 2025

Drawn By:

LSD

Reviewed By:

KDK

Approved By:

FEO

W&S Project No.:

ENG22-1072

W&S File No.:

SEE PATH

Drawing Title:

LAUREL STREET AT  
SUMMER STREET  
CSO REGULATOR  
DETAIL

Sheet Number:

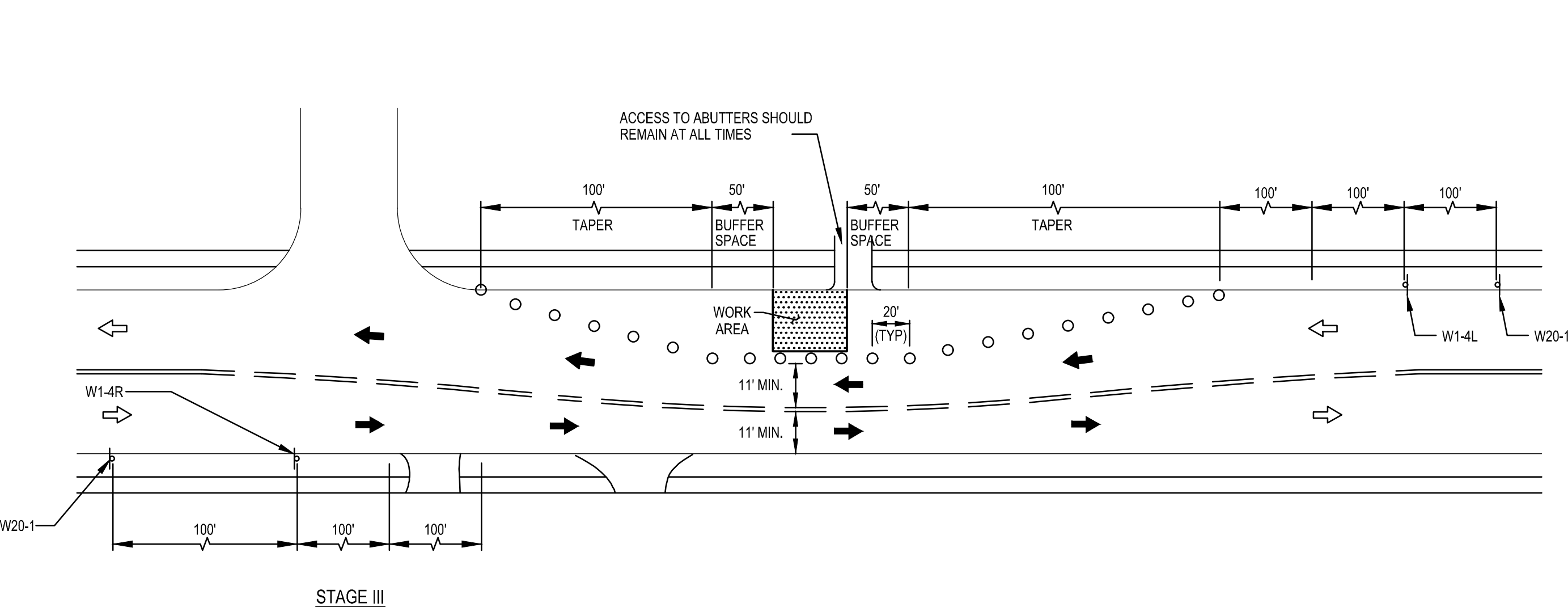
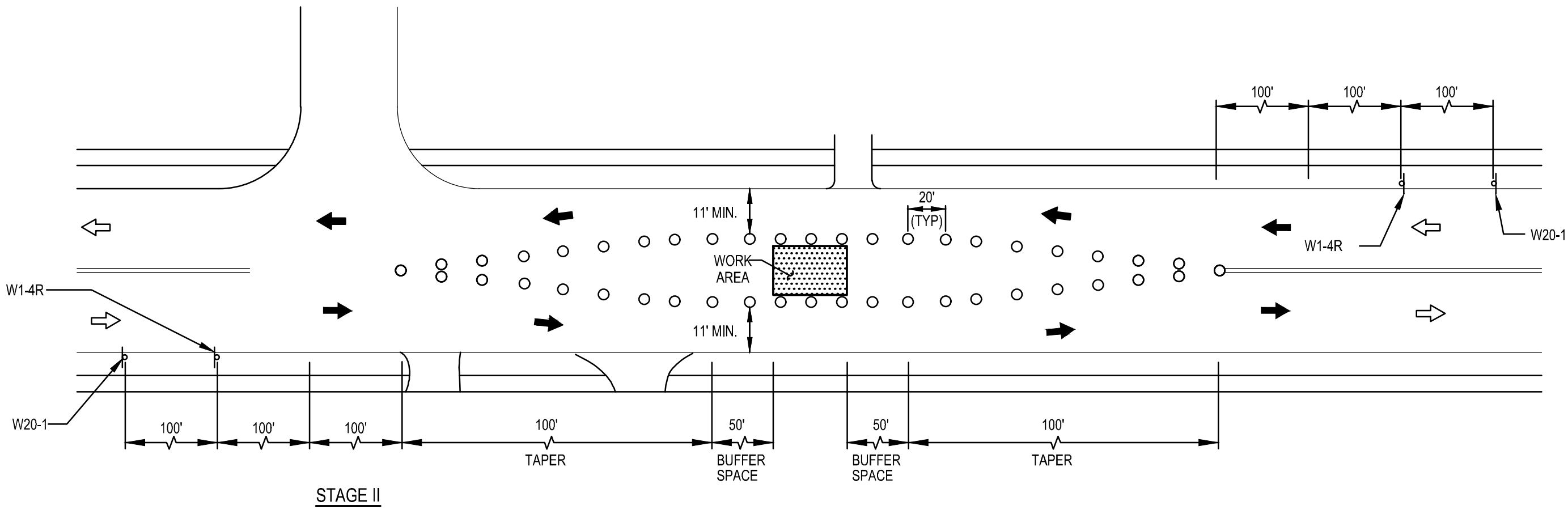
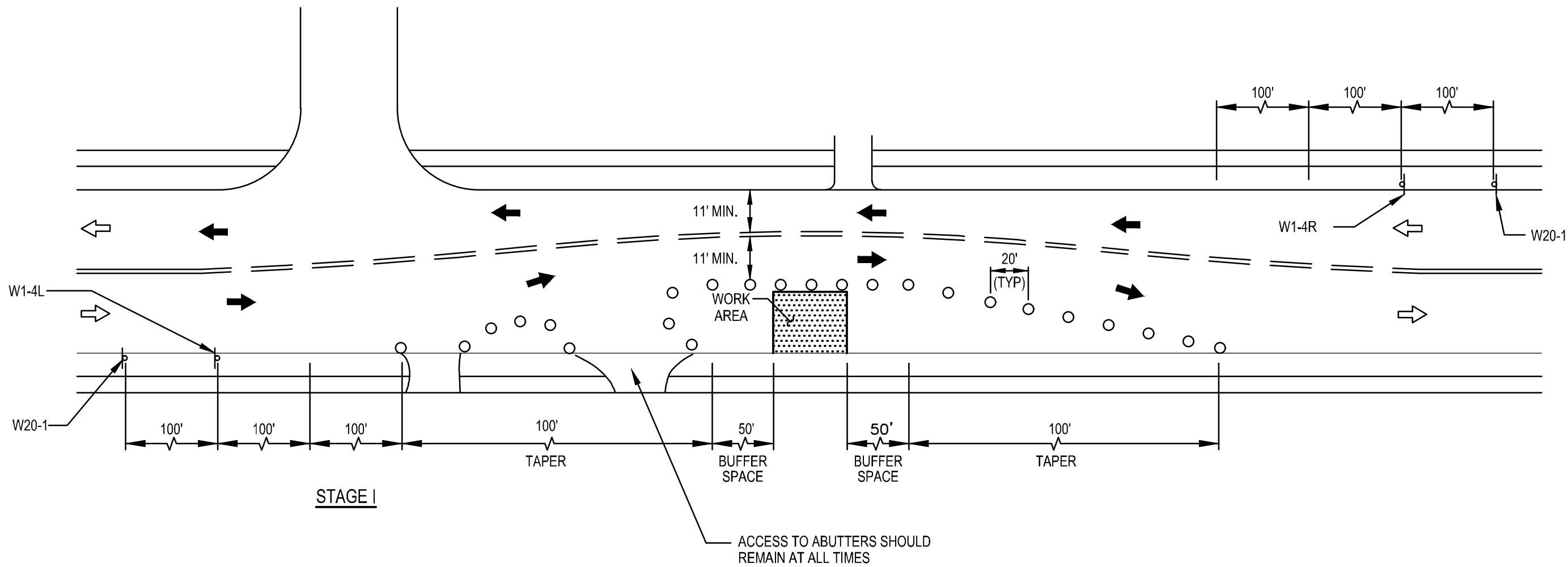
C502

Copyright © 2024 WESTON & SAMPSON, INC.

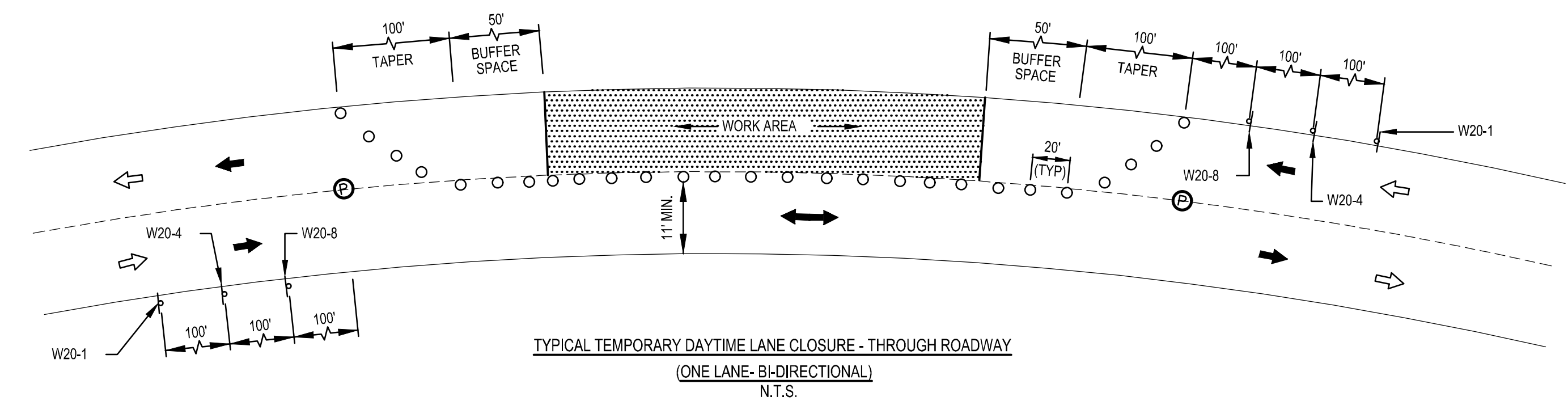




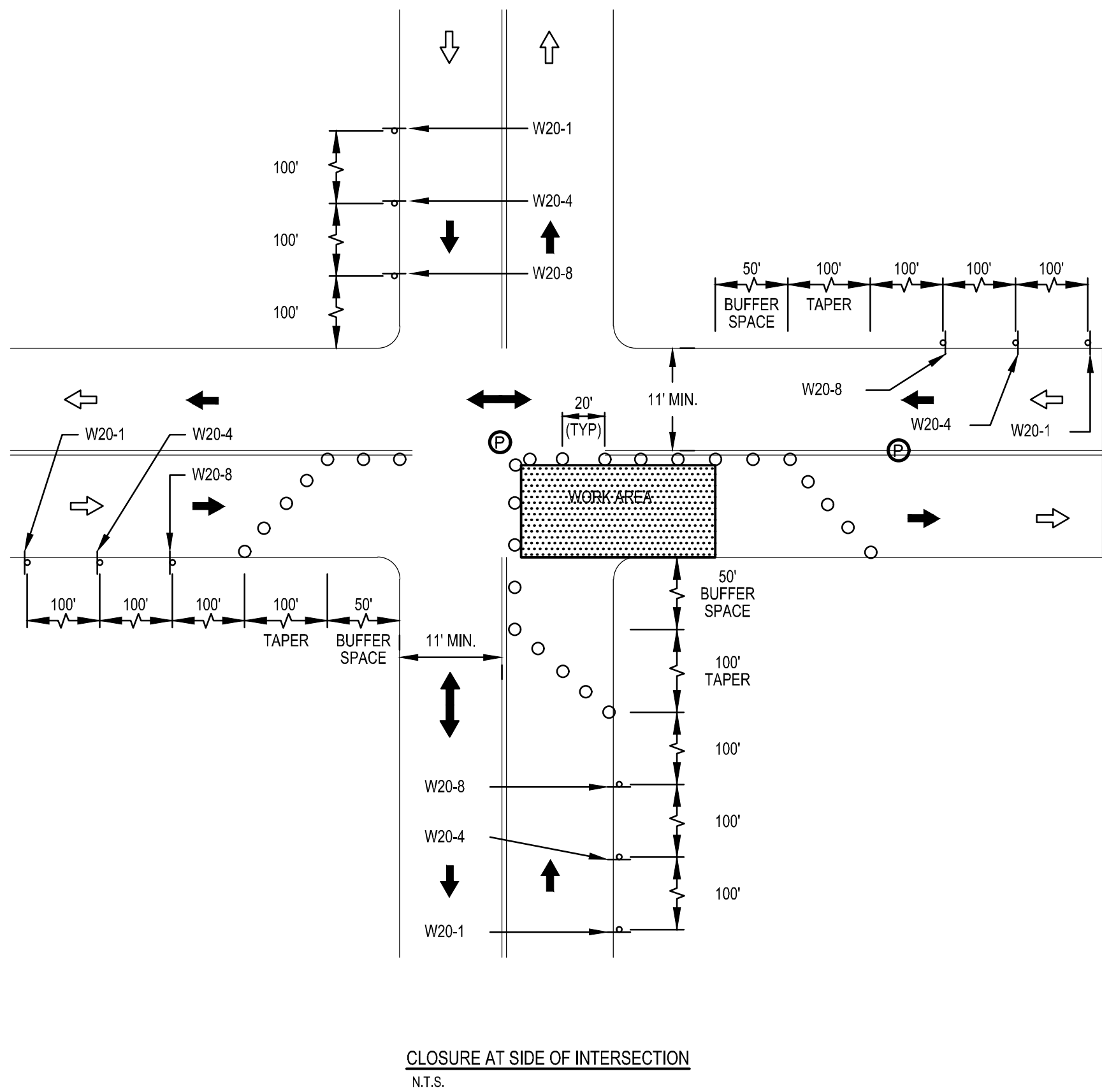
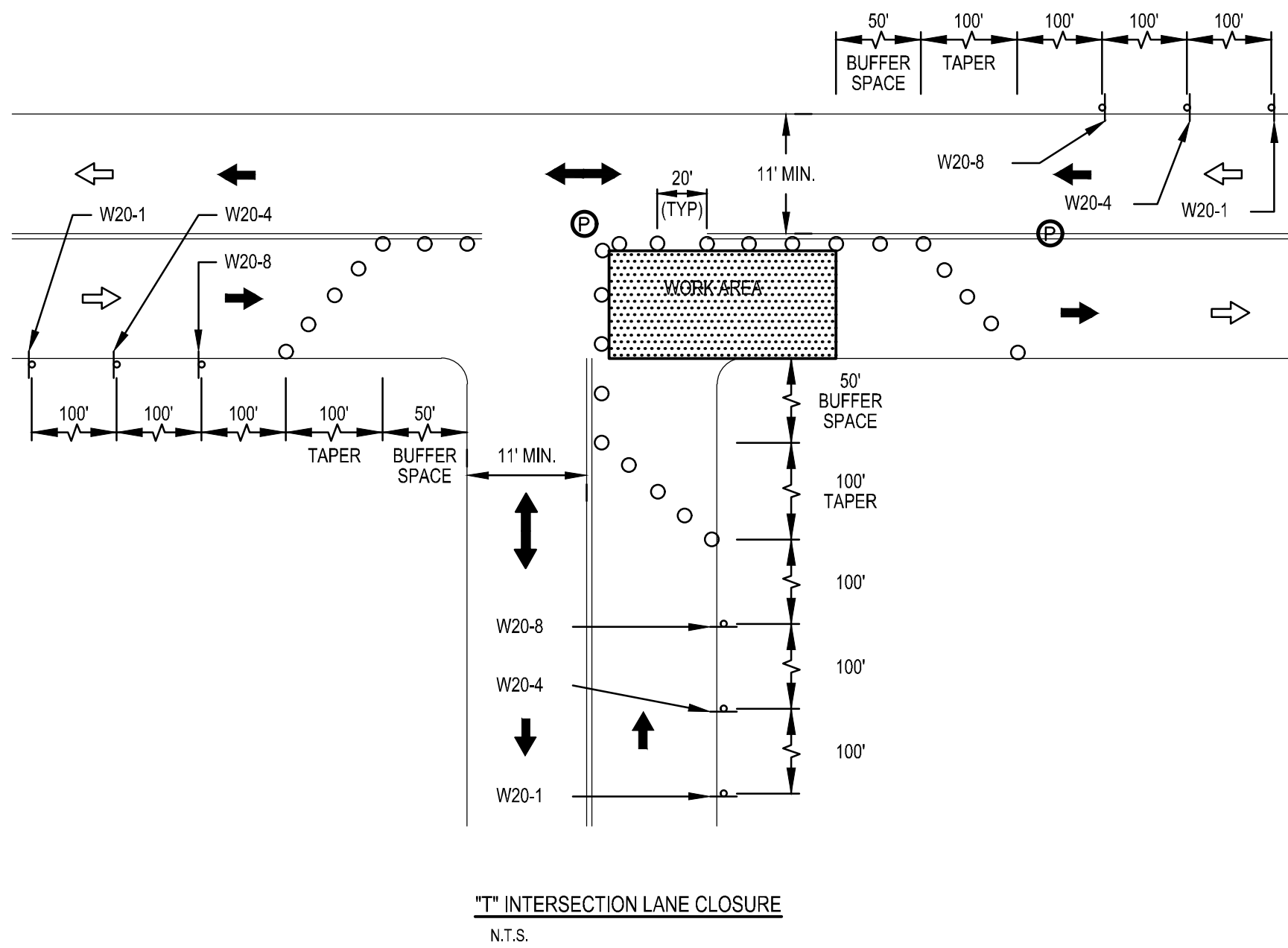





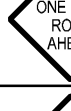




TRAFFIC OPERATION STAGES  
N.T.S.



TYPICAL TEMPORARY DAYTIME LANE CLOSURE - THROUGH ROADWAY  
(ONE LANE-BI-DIRECTIONAL)  
N.T.S.



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 THEIR SOLE RESPONSIBILITY FOR CONSTRUCTION SITE SAFETY.

Consultants:

Revisions:		
No.	Date	Description

COA:

THIS DOCUMENT AND ALL ASSOCIATED DOCUMENTS ARE PREPARED FOR THE EXCLUSIVE USE OF THE CLIENT SOLELY FOR THE SPECIFIC PROJECT LISTED ON THE FACE OF THIS DOCUMENT AND INCORPORATES CALCULATIONS AND MEASUREMENTS AVAILABLE FROM THE CLIENT AT THE TIME OF DRAFTING. THE RECIPIENT OF THIS DOCUMENT SHALL NOT DISTRIBUTE, DISSEMINATE, REPRODUCE OR COPY, IN WHOLE OR IN PART, WITHOUT THE WRITTEN PERMISSION OF WESTON & SAMPSON, INC.

Seal:

COMMONWEALTH OF MASSACHUSETTS  
FRANK E. OCCIPINTI  
CIVIL  
No. 54761  
REGISTERED PROFESSIONAL ENGINEER

Issued For:

RELEASED FOR CONSTRUCTION

Scale: NO SCALE

Date: JUNE 2025  
Drawn By: LSD  
Reviewed By: KDK  
Approved By: FEO  
W&S Project No.: ENG22-1072  
W&S File No.: SEE PATH

Drawing Title:

CONSTRUCTION ZONE SAFETY PLAN

Sheet Number:

C504