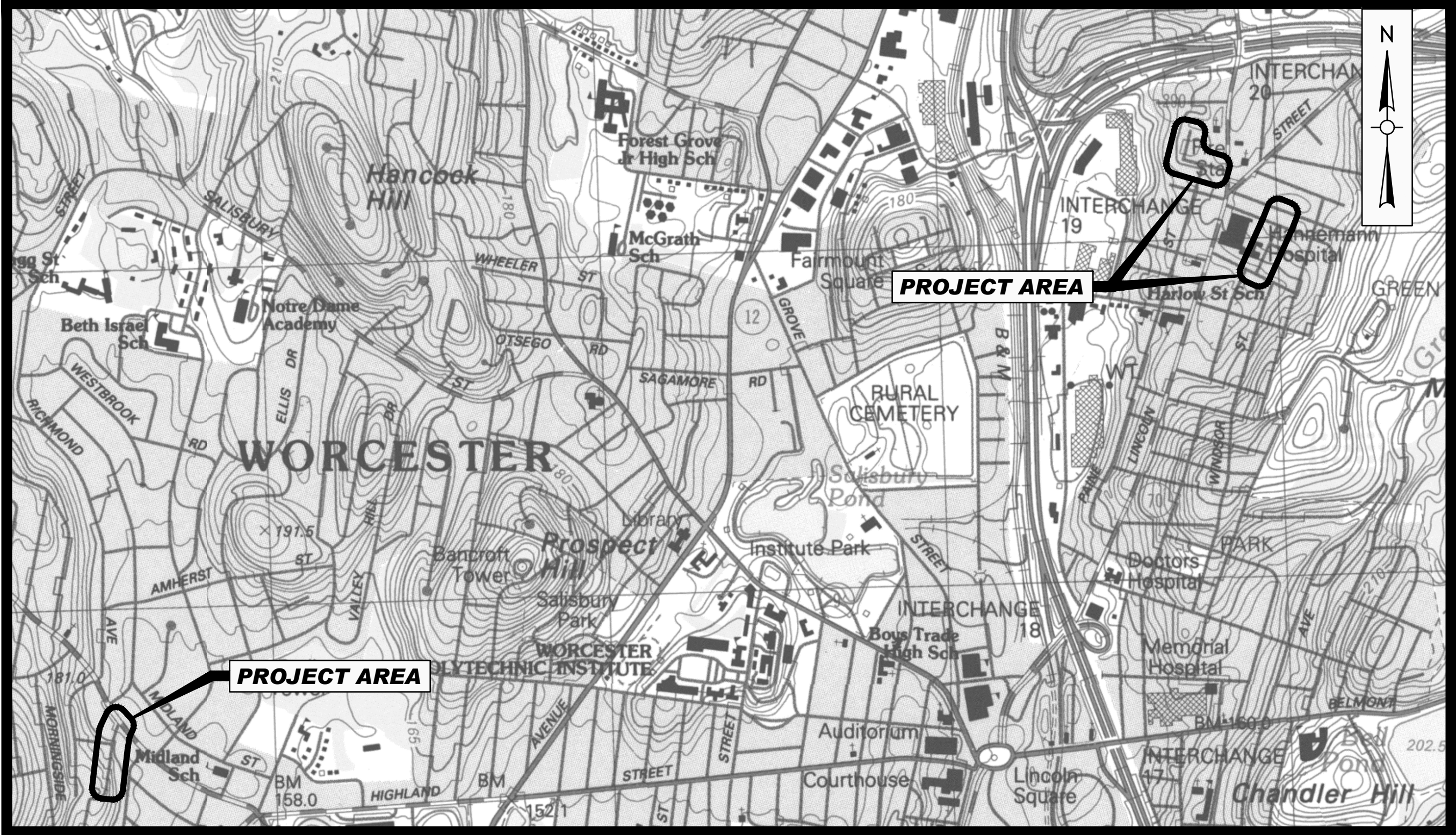


CITY OF WORCESTER, MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS AND PARKS
VARIOUS STREETS CONSTRUCTION AND RECONSTRUCTION OF SANITARY
AND SURFACE SEWERS AND WATERMAIN REPLACEMENT PROJECT
HADWEN LANE, IVANHOE ROAD, ROCKPORT ROAD, MELVILLE STREET AND ROCK AVENUE



LOCUS MAP
SCALE : 1"=1000'

DRAWING INDEX	
SHEET	TITLE
G000	COVER
G101	ABBREVIATIONS, NOTES AND LEGEND
C101	HADWEN LANE SEWER AND DRAIN REPLACEMENT STA 0+00 TO STA 5+50
C102	HADWEN LANE STA 0+00 TO STA 6+50 AND IVANHOE ROAD STA 0+00 TO STA 3+25 SEWER AND DRAIN REPLACEMENT
C103	ROCKPORT ROAD SEWER AND DRAIN REPLACEMENT STA 0+00 TO STA 5+00
C104	MELVILLE STREET SEWER AND DRAIN REPLACEMENT STA 0+00 TO STA 3+42
C105	ROCK AVENUE SEWER AND DRAIN REPLACEMENT STA 0+00 TO STA 2+92
C106	ROCKPORT ROAD WATER MAIN REPLACEMENT
C107	MELVILLE STREET WATER MAIN REPLACEMENT
C108	ROCK AVENUE AND IVANHOE ROAD WATER MAIN REPLACEMENT
C501	DETAILS I
C502	DETAILS II
C503	WORCESTER STANDARD DETAILS
C504	CONSTRUCTION ZONE SAFETY PLAN



CONTRACT NO. S23-4 - ARPA
BID # 7982-M3



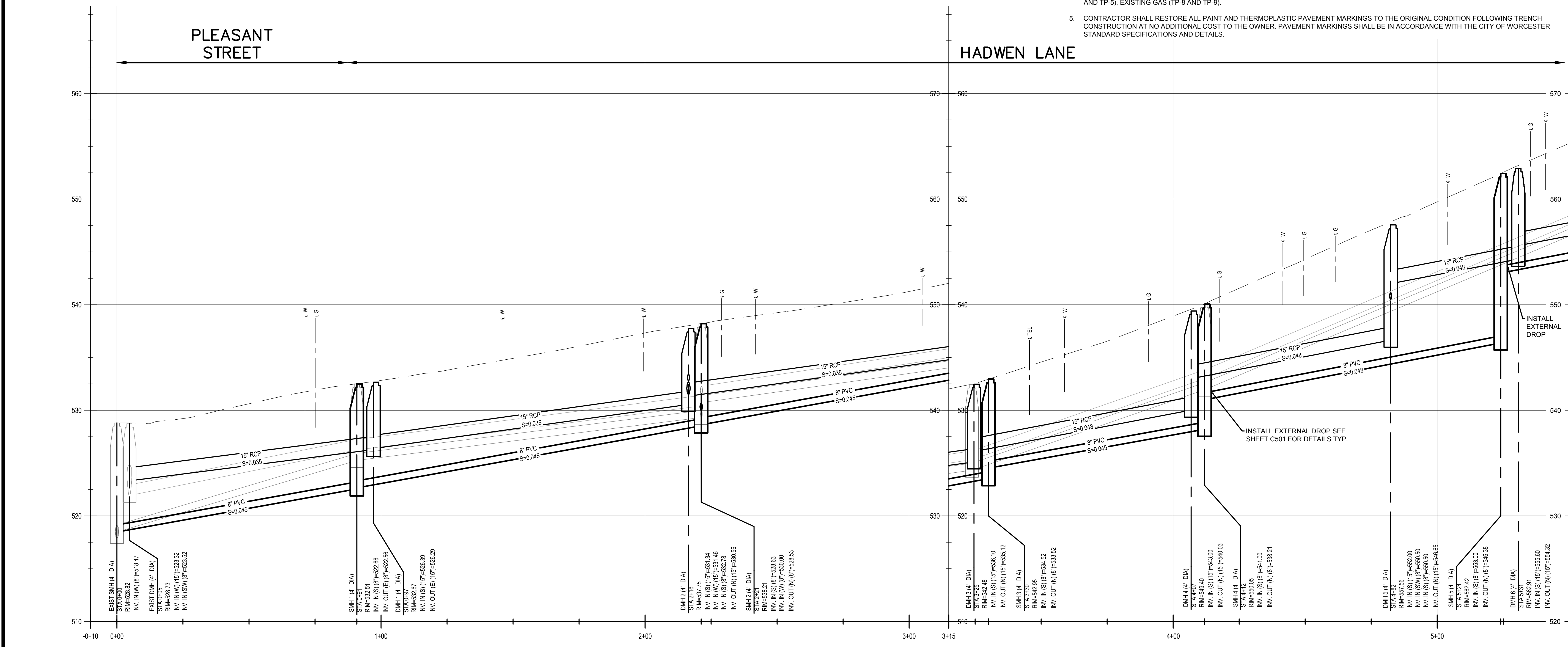
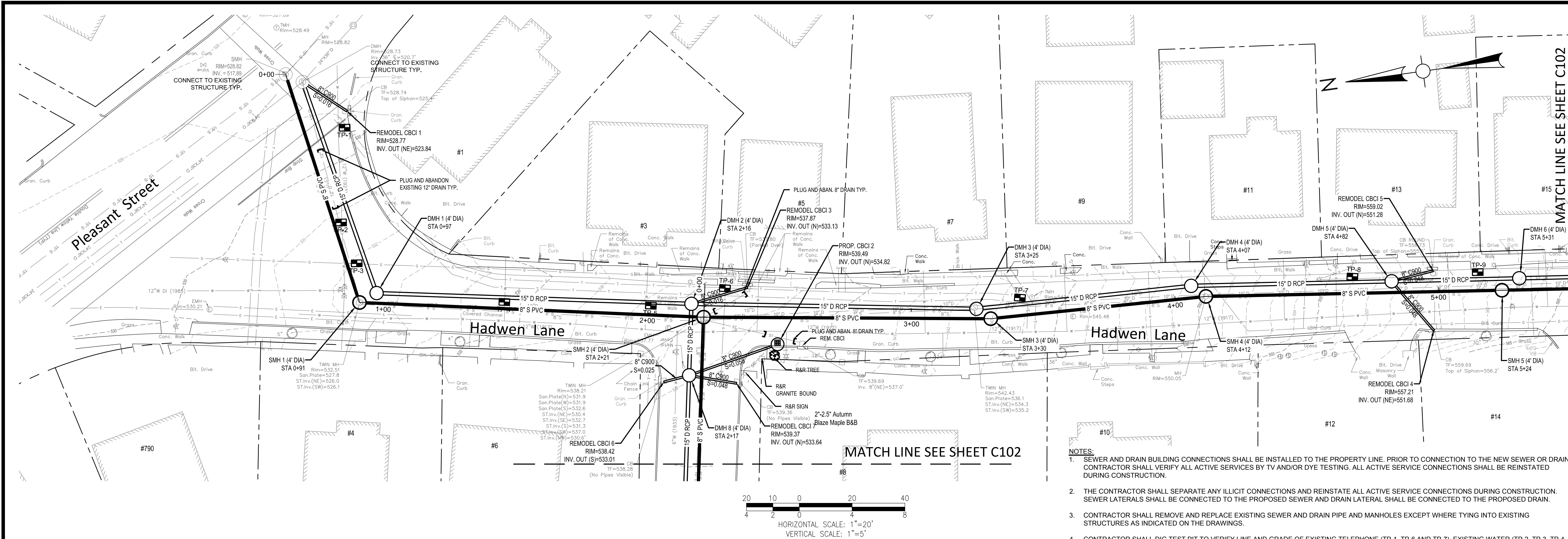
ERIC D. BATISTA, CITY MANAGER
JAY J. FINK, PE, COMMISSIONER OF PUBLIC WORKS AND PARKS

Weston & Sampson
Weston & Sampson Engineers, Inc.
55 Walkers Brook Drive, Suite 100
Reading, MA 01867
978.532.1900 800.SAMPSON
www.westonandsampson.com

MAY 2023



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Project:

CITY OF WORCESTER,
MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS
AND PARKS

Various Streets Sewer
Replacement Project
Contract S23-4 ARPA

Weston & Sampson

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

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COMMONWEALTH OF MASSACHUSETTS

DONALD G. GALLUCI

CIVIL

No. 37973

REGISTERED PROFESSIONAL ENGINEER

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MAY 2023

Drawn By:

ABS

Reviewed By:

FEO

Approved By:

DGG

W&S Project No.:

ENG22-0378

W&S File No.:

Drawing Title:

HADWEN LANE
STA 0+00 TO STA 5+50

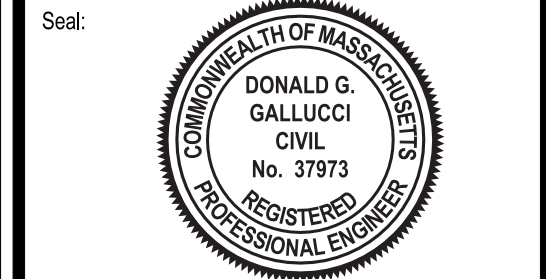
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C101

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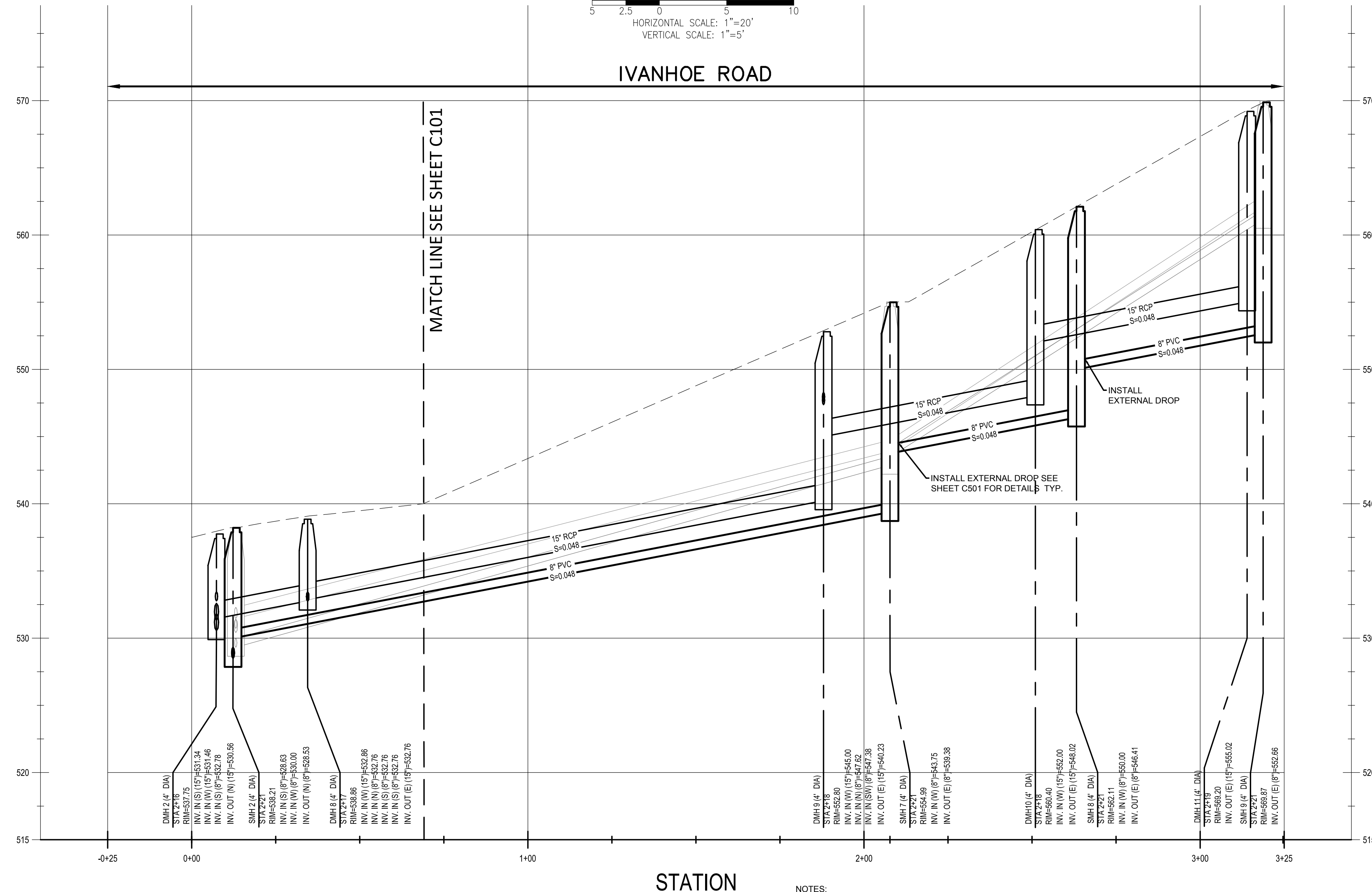
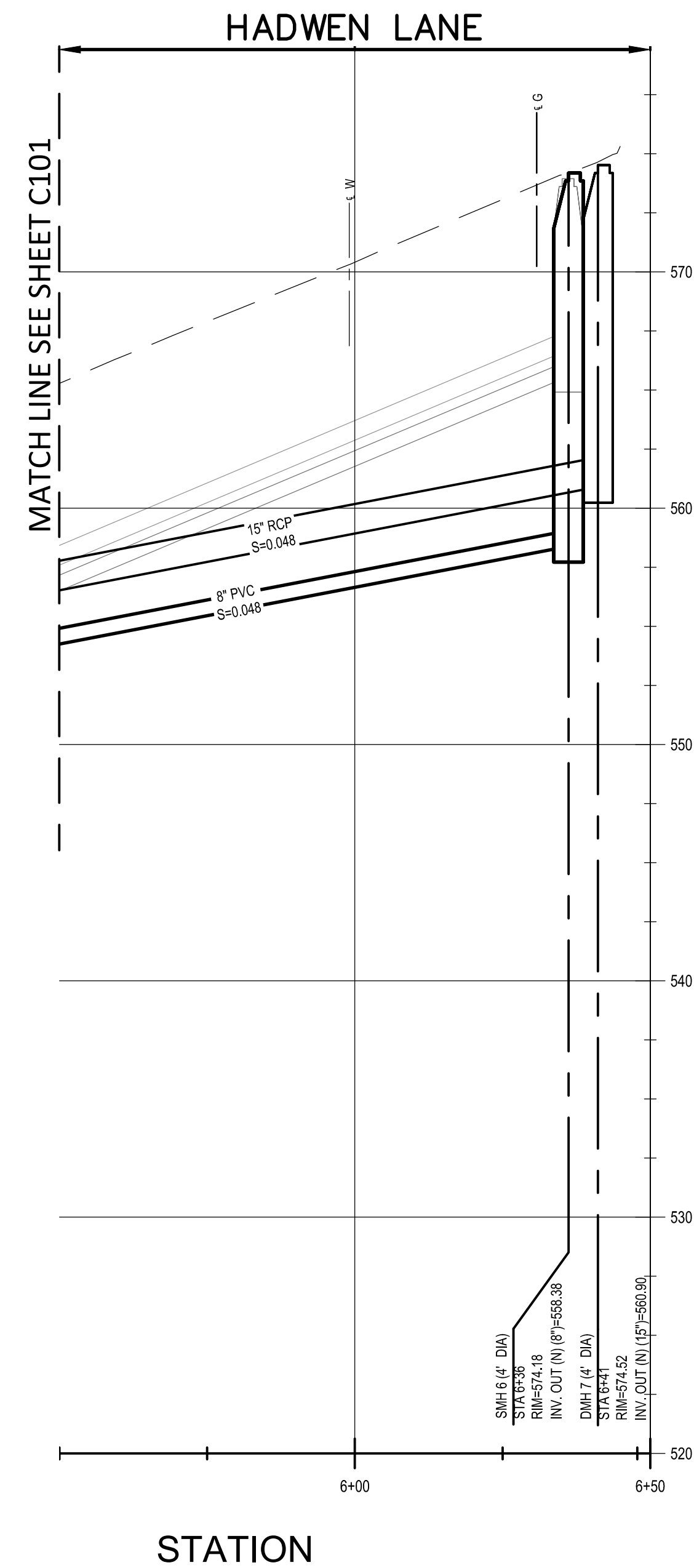
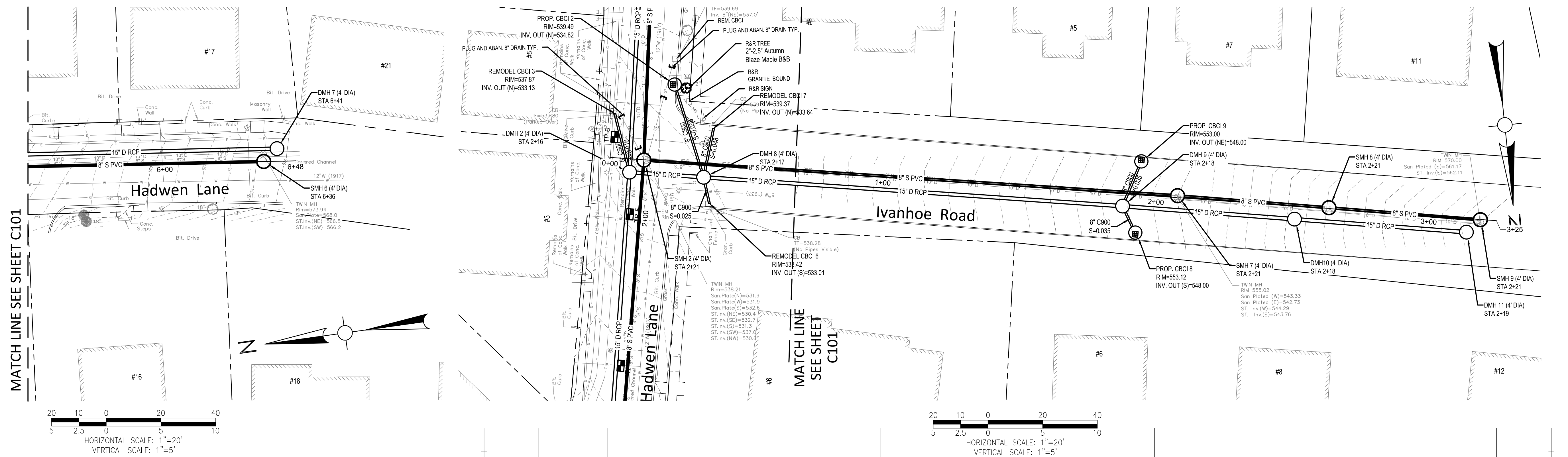
W&S Project No.: ENG22-0378
W&S File No.:

Drawing Title:
**HADWEN LANE
STA 5+50 TO STA 6+50
IVANHOE ROAD
STA 0+00 TO 3+25**

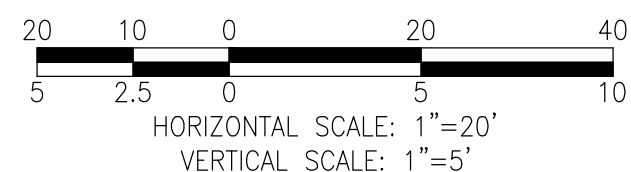
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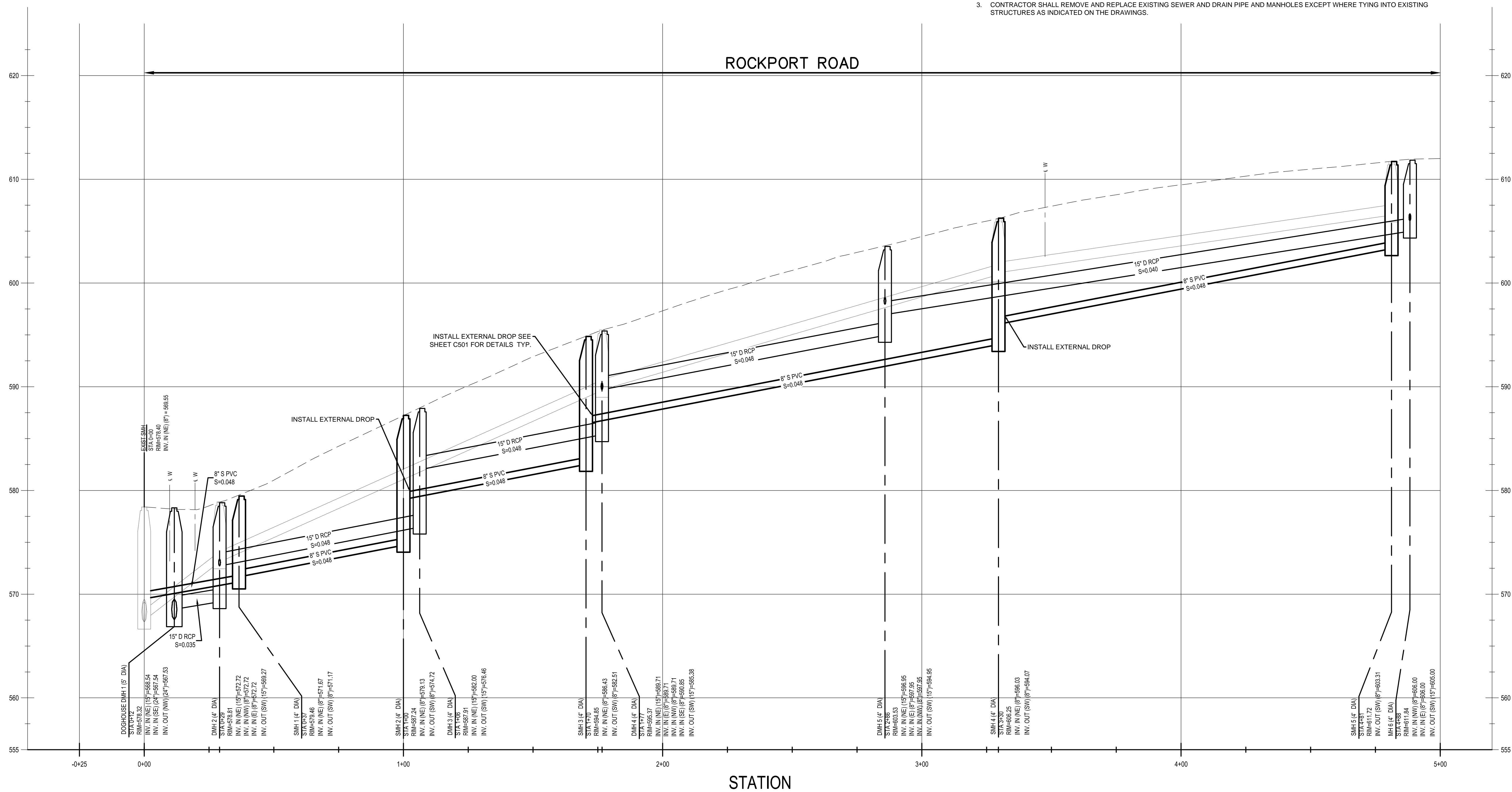
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- NOTES:
- SEWER AND DRAIN BUILDING CONNECTIONS SHALL BE INSTALLED TO THE PROPERTY LINE. PRIOR TO CONNECTION TO THE NEW SEWER OR DRAIN, CONTRACTOR SHALL VERIFY ALL ACTIVE SERVICES BY TV AND/OR DYE TESTING. ALL ACTIVE SERVICE CONNECTIONS SHALL BE REINSTATED DURING CONSTRUCTION.
 - THE CONTRACTOR SHALL SEPARATE ANY ILLICIT CONNECTIONS AND REINSTATE ALL ACTIVE SERVICE CONNECTIONS DURING CONSTRUCTION. SEWER LATERALS SHALL BE CONNECTED TO THE PROPOSED SEWER AND DRAIN LATERAL SHALL BE CONNECTED TO THE PROPOSED DRAIN.
 - CONTRACTOR SHALL REMOVE AND REPLACE EXISTING SEWER AND DRAIN PIPE AND MANHOLES EXCEPT WHERE TYING INTO EXISTING STRUCTURES AS INDICATED ON THE DRAWINGS.



- NOTES:**
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10.1101/20170728 Visceral leishmaniasis (CL) in Burkino Faso

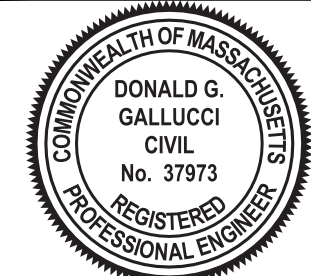
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Approved By:	DGG

W&S Project No.: ENG22-0378

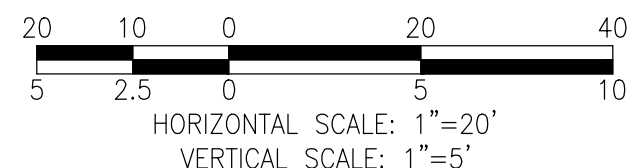
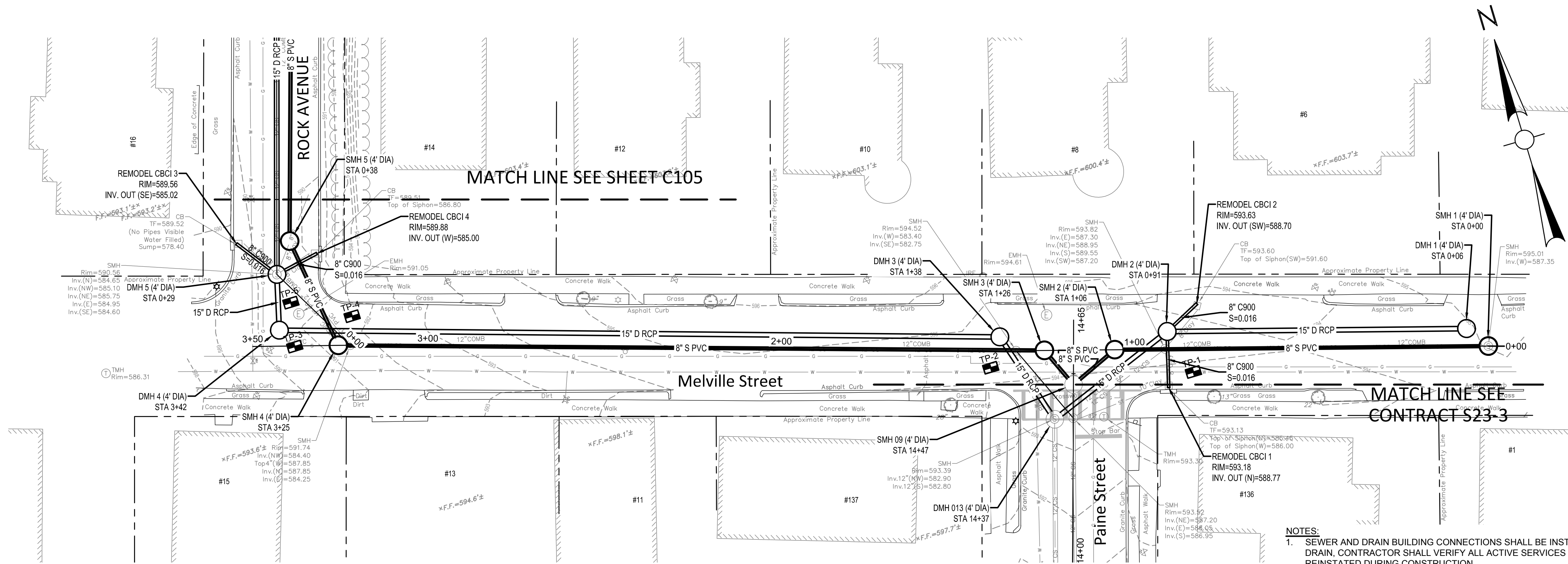
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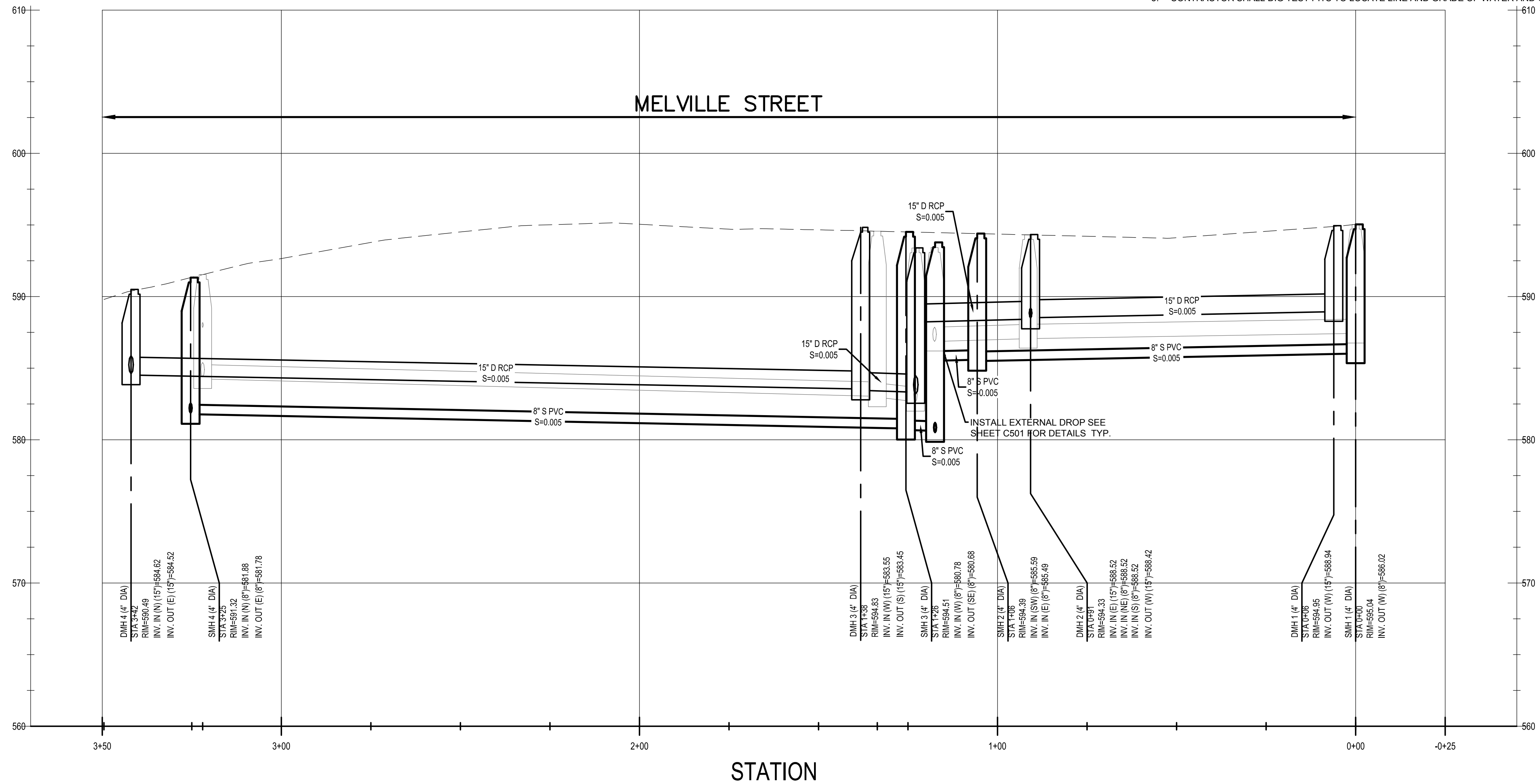
ROCKPORT ROAD
STA 0+00 TO STA 5+00

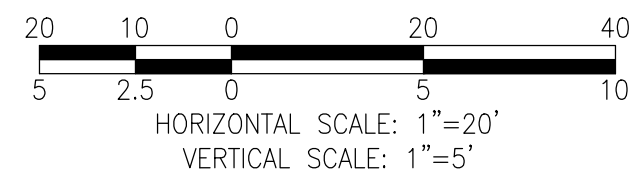
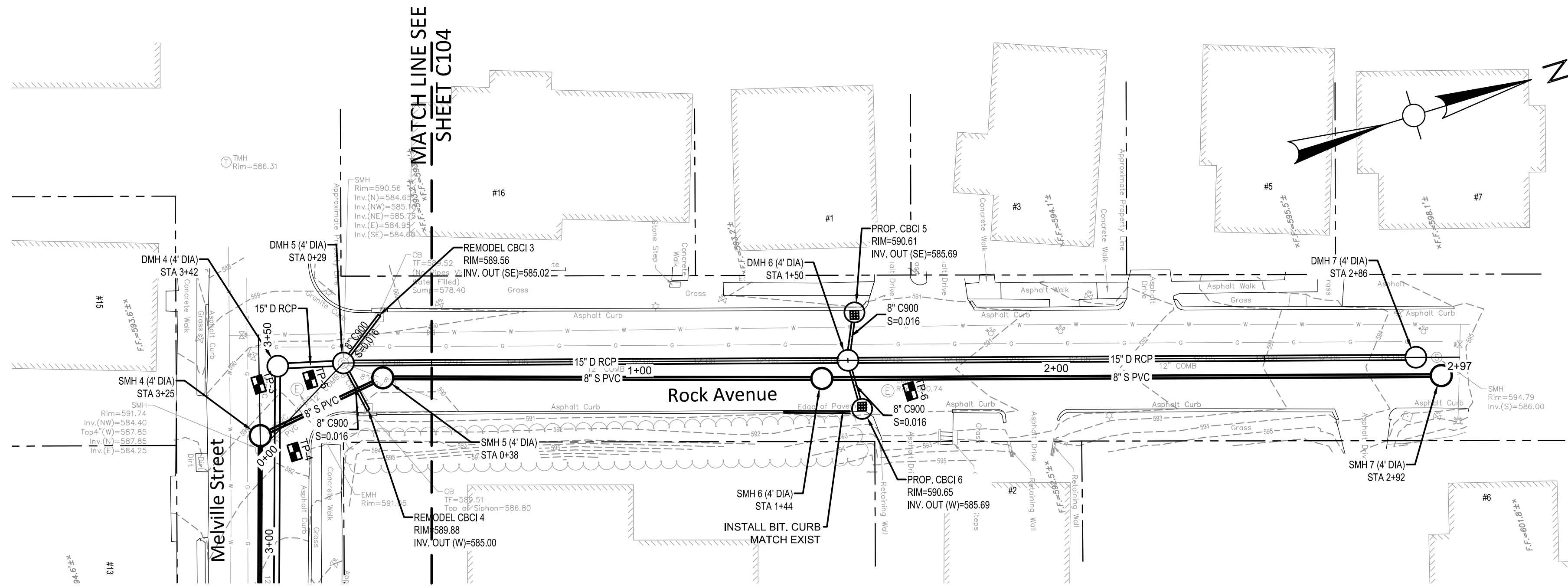
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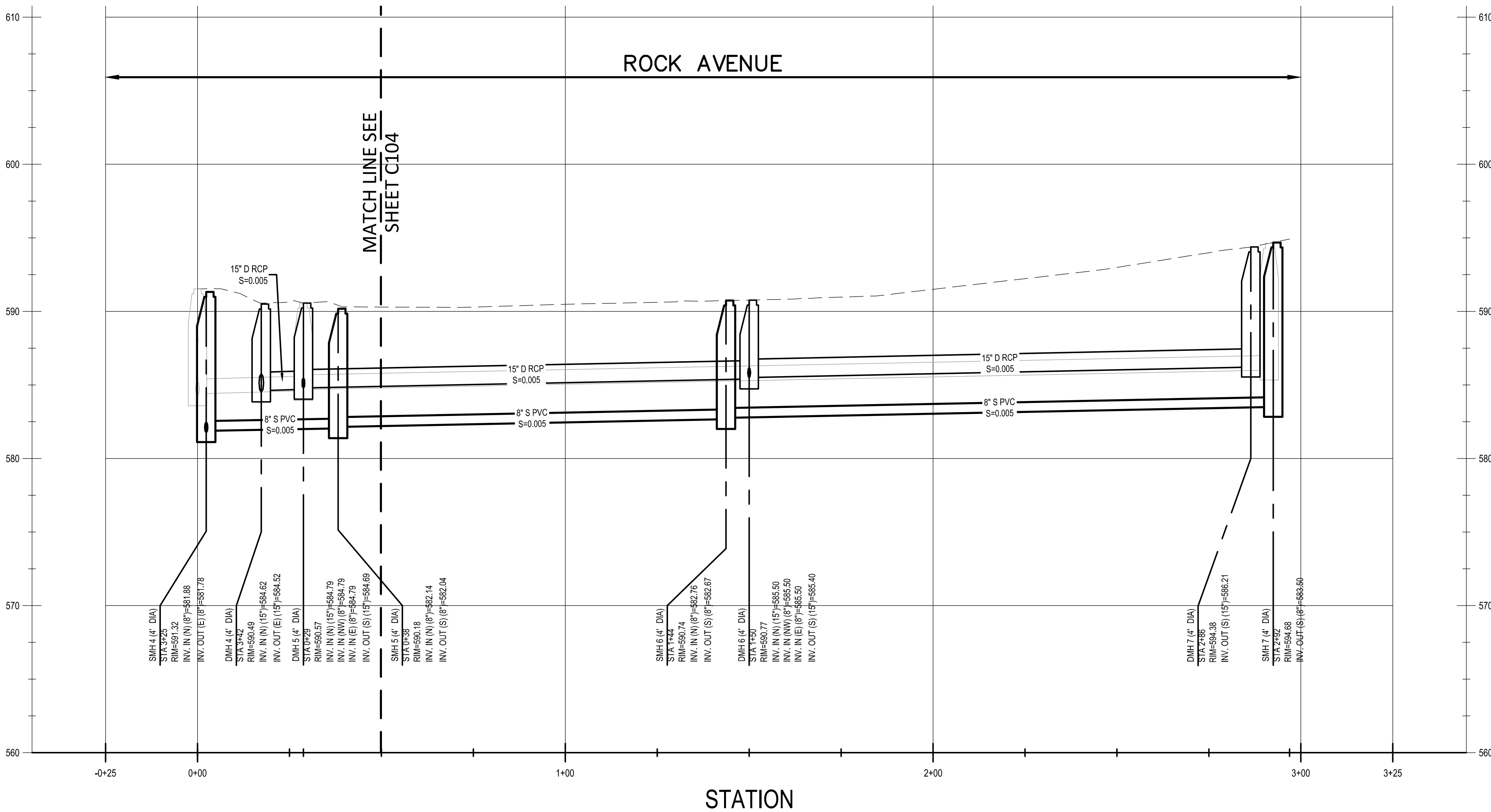


- NOTES:**
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 - CONTRACTOR SHALL REMOVE AND REPLACE EXISTING SEWER AND DRAIN PIPE AND MANHOLES EXCEPT WHERE TYING INTO EXISTING STRUCTURES AS INDICATED ON THE DRAWINGS.
 - CONTRACTOR SHALL CONNECT TO EXISTING SEWER AND DRAIN LINES FROM SMH 09 AND DMH 013 AT LINE AND GRADE FROM CONTRACT S23-3 AND FURNISH AND INSTALL PROPOSED SEWER AND DRAIN AND AS SHOWN. CONTRACTOR SHALL COORDINATE SCHEDULING AND COMPLETION OF CONTRACT S23-3 WITH THE ENGINEER AND THE OWNER. ALL WORK RELATED TO CONTRACT S23-3 ON PAINE STREET MUST BE COMPLETED PRIOR TO BEGINNING WORK ON THIS SHEET.
 - CONTRACTOR SHALL DIG TEST PITS TO LOCATE LINE AND GRADE OF WATER AND GAS TP-1 AND TP2, AND ELECTRIC LINE TP-3 AND TP-4.





- NOTES:
- SEWER AND DRAIN BUILDING CONNECTIONS SHALL BE INSTALLED TO THE PROPERTY LINE. PRIOR TO CONNECTION TO THE NEW SEWER OR DRAIN, CONTRACTOR SHALL VERIFY ALL ACTIVE SERVICES BY TV AND/OR DYE TESTING. ALL ACTIVE SERVICE CONNECTIONS SHALL BE REINSTATED DURING CONSTRUCTION.
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DONALD G. GALLUCCI
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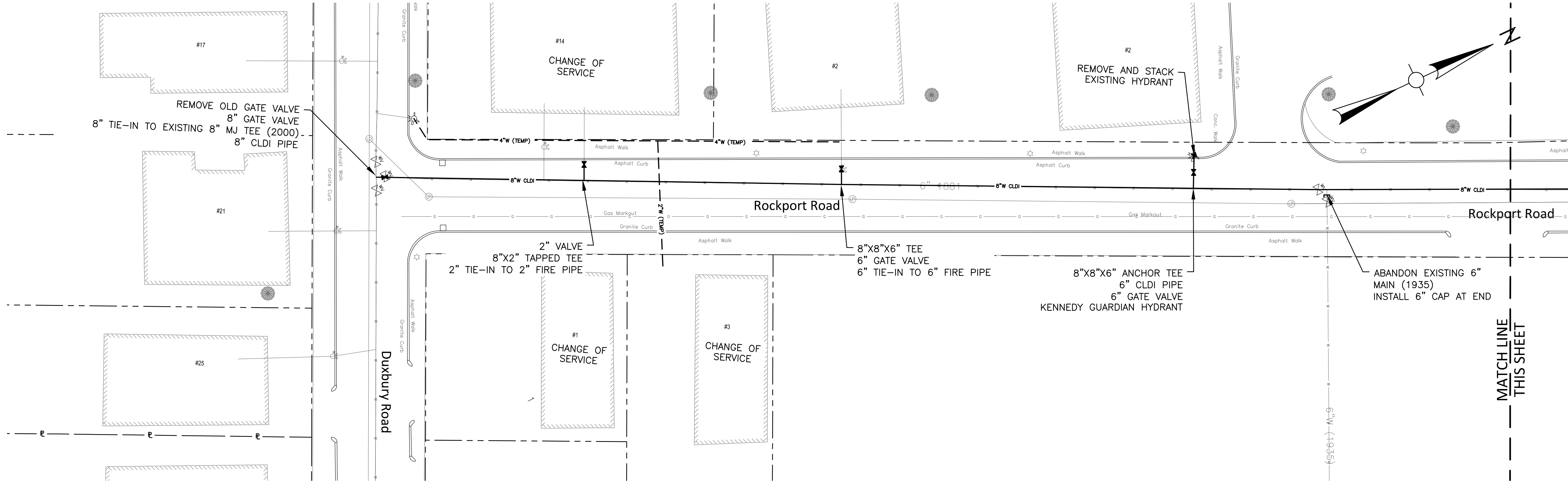
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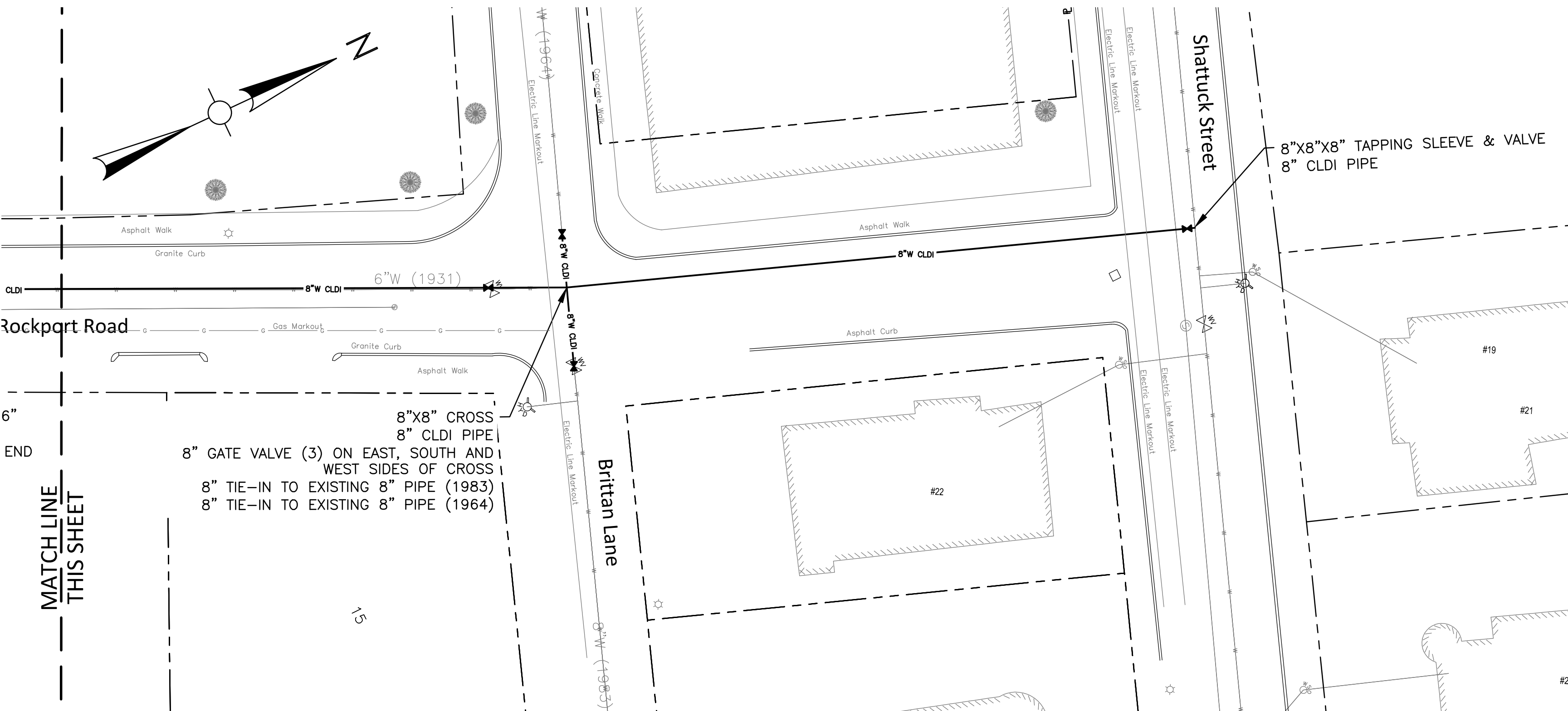
Date: MAY 2023
Drawn By: ABS
Reviewed By: FEO
Approved By: DGG
W&S Project No.: ENG22-0378
W&S File No.:

Drawing Title:
**ROCK AVENUE
STA 0+00 TO STA 2+92**

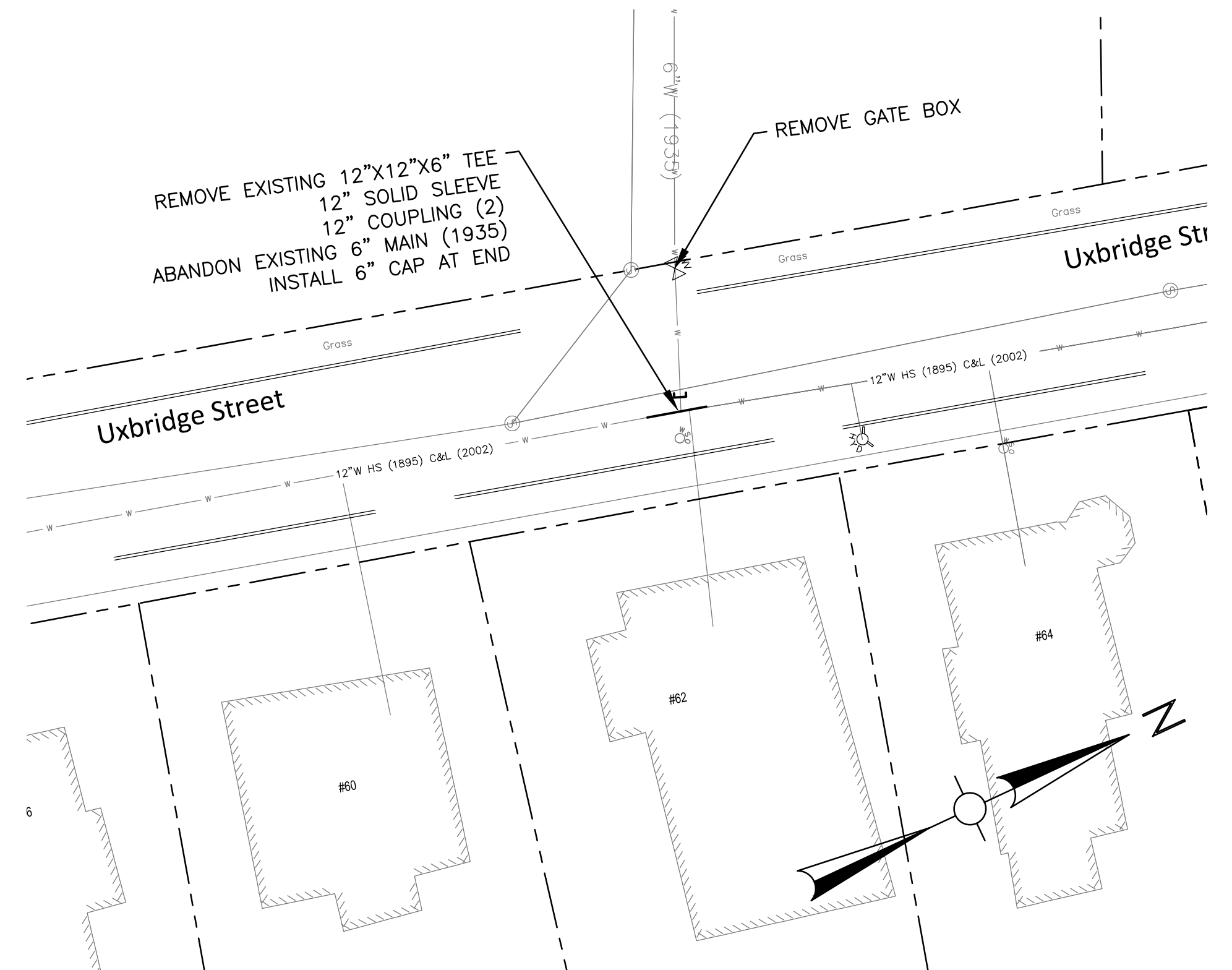
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PLAN
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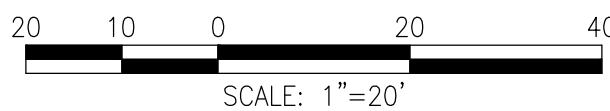
PLAN
SCALE: 1" = 20'



PLAN
SCALE: 1" = 20'

NOTES:

- 1) ALL LOCATIONS DENOTED AS "CHANGE OF SERVICE" SHALL RECEIVE A NEW SERVICE CONNECTION WHICH CONSTITUTES INSTALLATION OF 1" POLYETHYLENE PIPE FROM THE MAIN TO THE CURB STOP, A NEW CORPORATION STOP, A NEW CURB STOP AND NEW CURB BOX.
- 2) ALL PROPOSED WATER MAIN SHALL BE CONCRETE LINED ZINC COATED DUCTILE IRON PIPE.
- 3) ALL PROPOSED WATER MAIN, VALVES AND APPURTENANCES SHALL BE POLYETHYLENE ENCASED.
- 4) ALL NEW WATER MAIN MUST BE INSTALLED TO A DEPTH OF 5 FEET MINIMUM AND 8 FOOT MAXIMUM OF COVER AS MEASURED FROM THE TOP OF PIPE TO FINISH GRADE UNLESS OTHERWISE NOTED ON THE PLANS.
- 5) SEE CITY OF WORCESTER DEPARTMENT OF PUBLIC WORKS & PARKS "STANDARD CONSTRUCTION SPECIFICATIONS & DETAILS" SECTION 300, ITEM 316 FOR TEMPORARY BY-PASS INSTALLATION, MAINTENANCE AND REMOVAL REQUIREMENTS.
- 6) HYDRANTS TO BE REMOVED AND STACKED SHALL REMAIN CITY PROPERTY AND THE CONTRACTOR SHALL DELIVER AND UNLOAD SAID HYDRANTS AT A LOCATION TO BE DETERMINED BY CITY OF WORCESTER PERSONNEL.
- 7) EXISTING WATER MAIN AND ASSOCIATED VALVES AND APPURTENANCES SHALL BE REMOVED AND NEW PIPE INSTALLED WITHIN THE SAME TRENCH. THE EXISTING WATER PIPE, VALVES AND APPURTENANCES TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF AT NO ADDITIONAL COST TO THE CITY. SEE CITY OF WORCESTER DEPARTMENT OF PUBLIC WORKS & PARKS "STANDARD CONSTRUCTION SPECIFICATIONS & DETAILS" SECTION 300 FOR ADDITIONAL INFORMATION.
- 8) SEE CITY OF WORCESTER DEPARTMENT OF PUBLIC WORKS & PARKS "STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS" FOR MORE INFORMATION ON TEMPORARY BYPASS, WATER MAIN, WATER SERVICE, HYDRANT INSTALLATION, AND OTHER APPLICABLE DETAILS ASSOCIATED WITH EARTHWORK, WATER, PAVEMENT AND TRAFFIC MANAGEMENT REQUIREMENTS.



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Approved By:

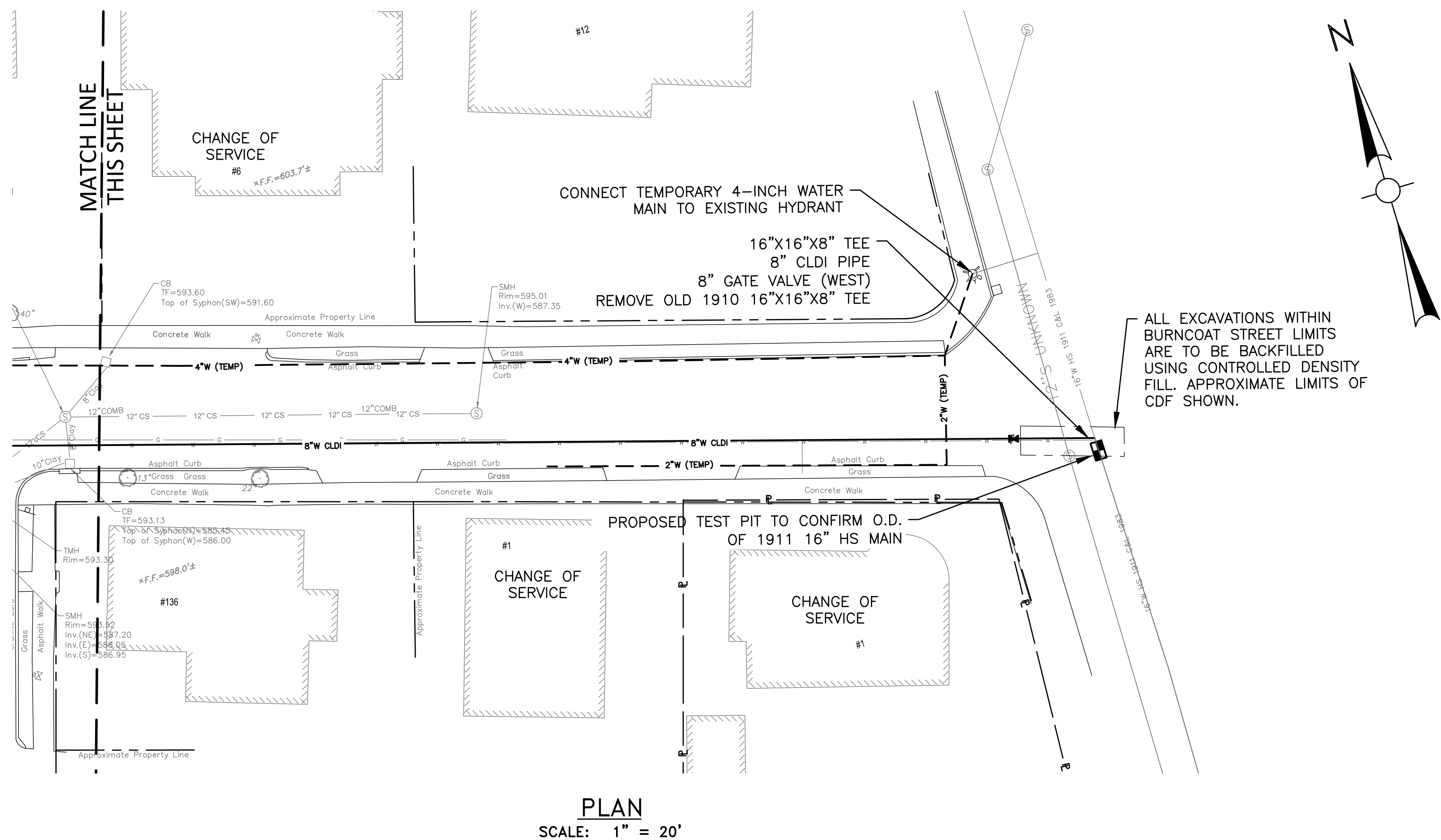
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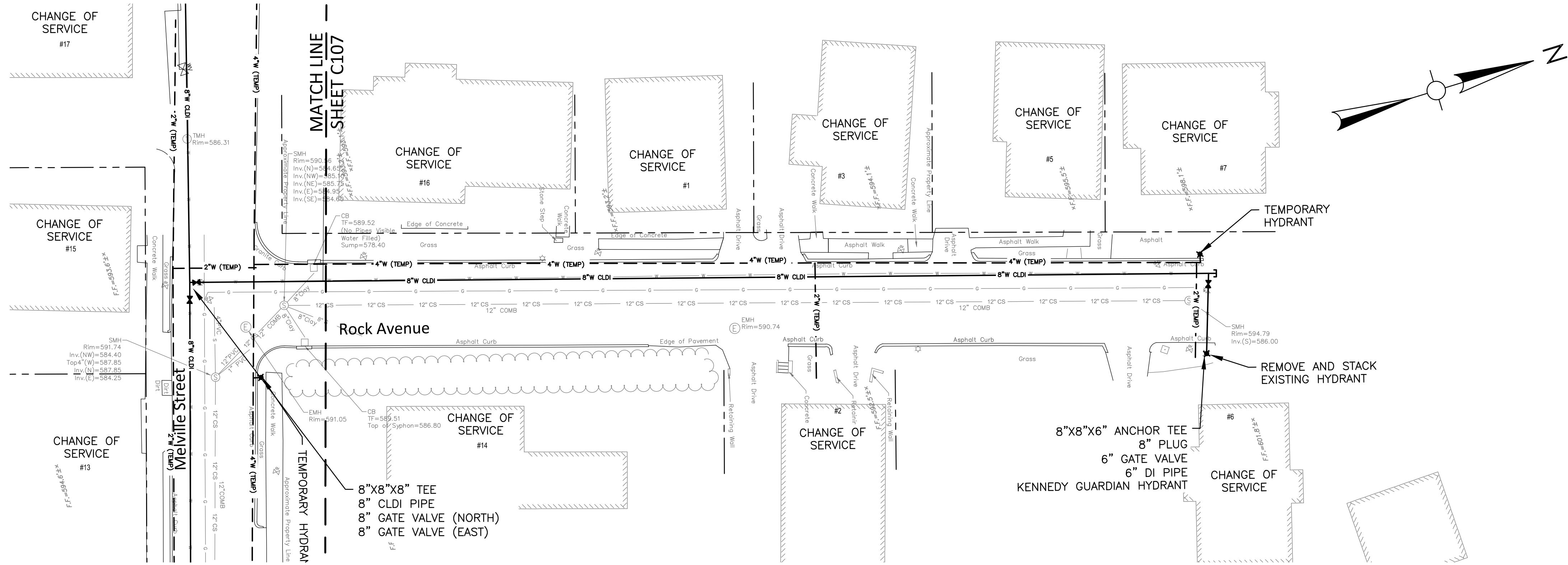
**ROCKPORT ROAD WATER
MAIN REPLACEMENT**

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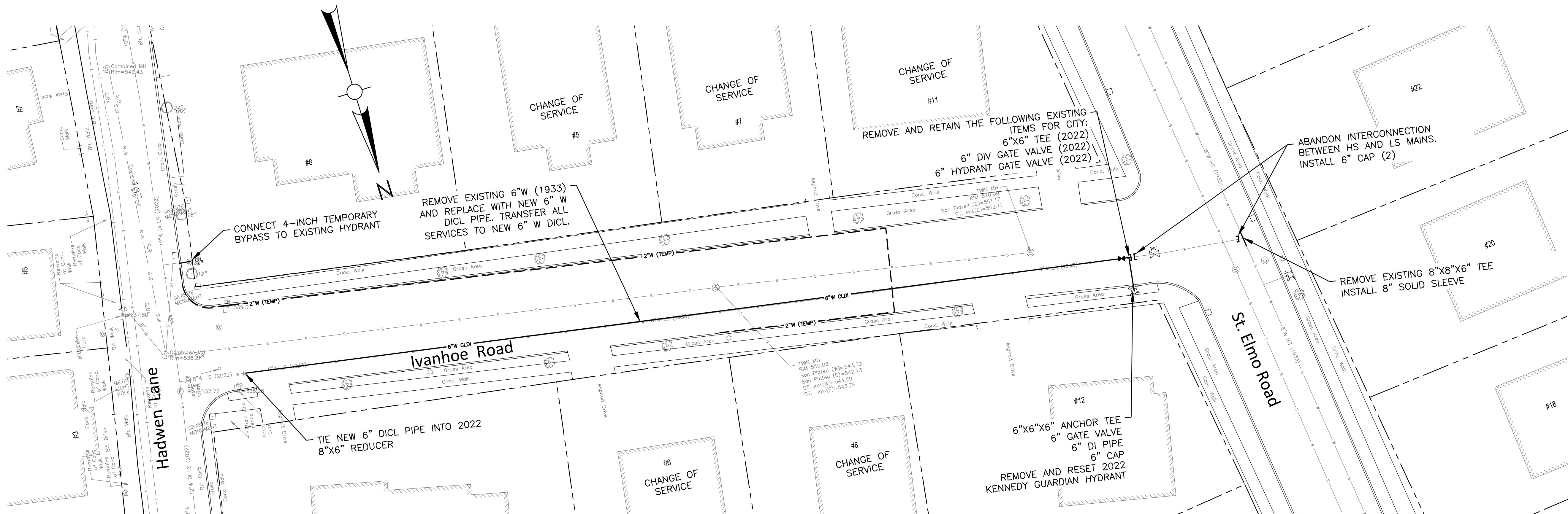
C106



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- 20 10 0 20 40
- SCALE: 1"=20'



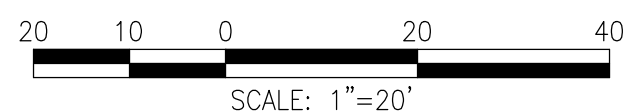
PLAN
SCALE: 1" = 20'



PLAN
SCALE: 1" = 20'

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- SEE CITY OF WORCESTER DEPARTMENT OF PUBLIC WORKS & PARKS "STANDARD CONSTRUCTION SPECIFICATIONS & DETAILS" SECTION 300, ITEM 316 FOR TEMPORARY BY-PASS INSTALLATION, MAINTENANCE AND REMOVAL REQUIREMENTS.
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- SEE CITY OF WORCESTER DEPARTMENT OF PUBLIC WORKS & PARKS "STANDARD CONSTRUCTION SPECIFICATIONS & DETAILS" FOR MORE INFORMATION ON TEMPORARY BYPASS, WATER MAIN, WATER SERVICE, HYDRANT INSTALLATION, AND OTHER APPLICABLE DETAILS ASSOCIATED WITH EARTHWORK, WATER, PAYEMENT AND TRAFFIC MANAGEMENT REQUIREMENTS.



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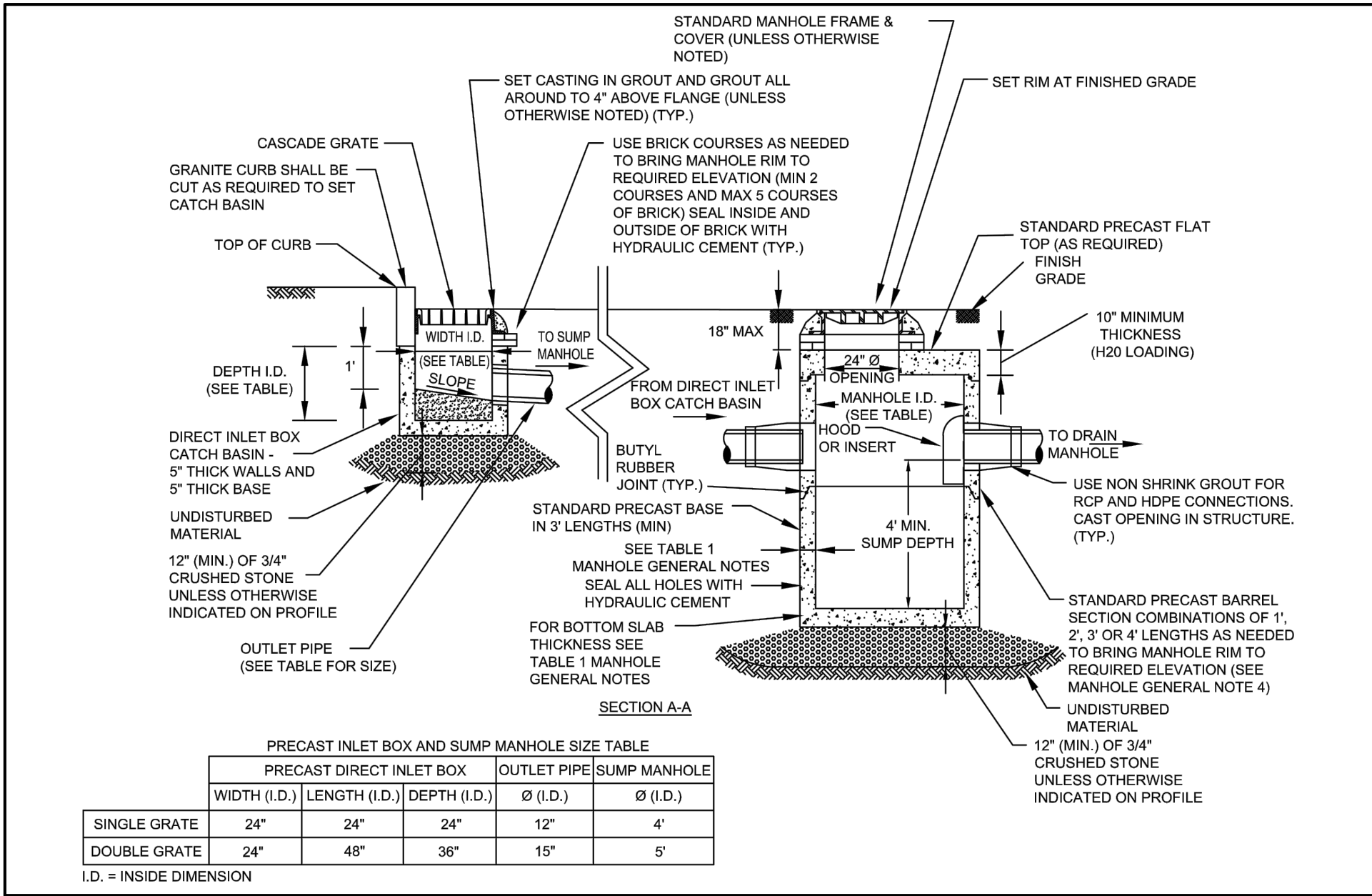
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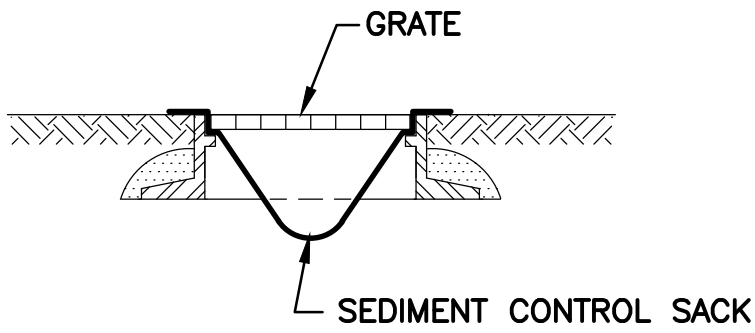
ROCK AVENUE AND
IVANHOE ROAD
WATER MAIN
REPLACEMENT

Sheet Number:

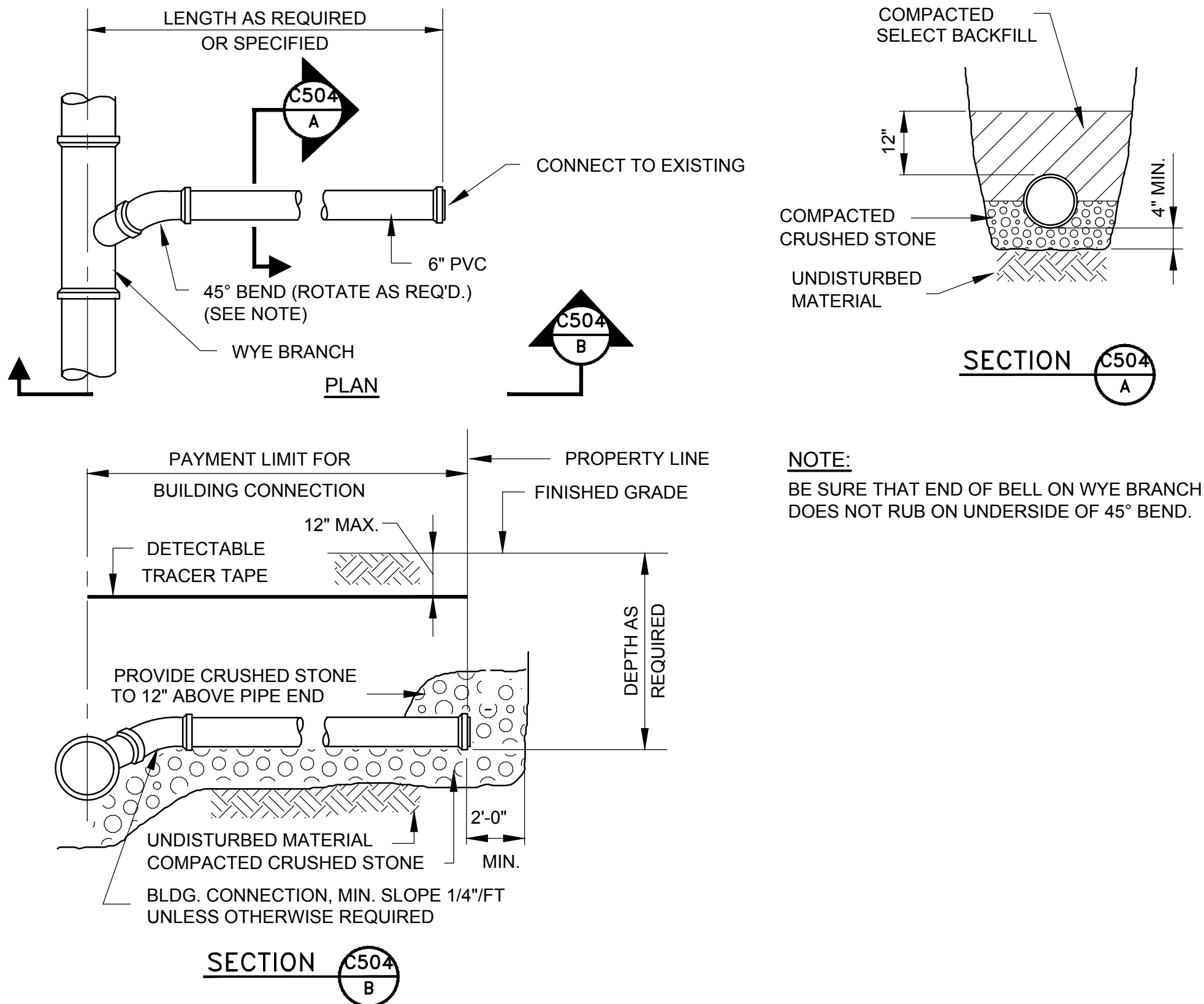
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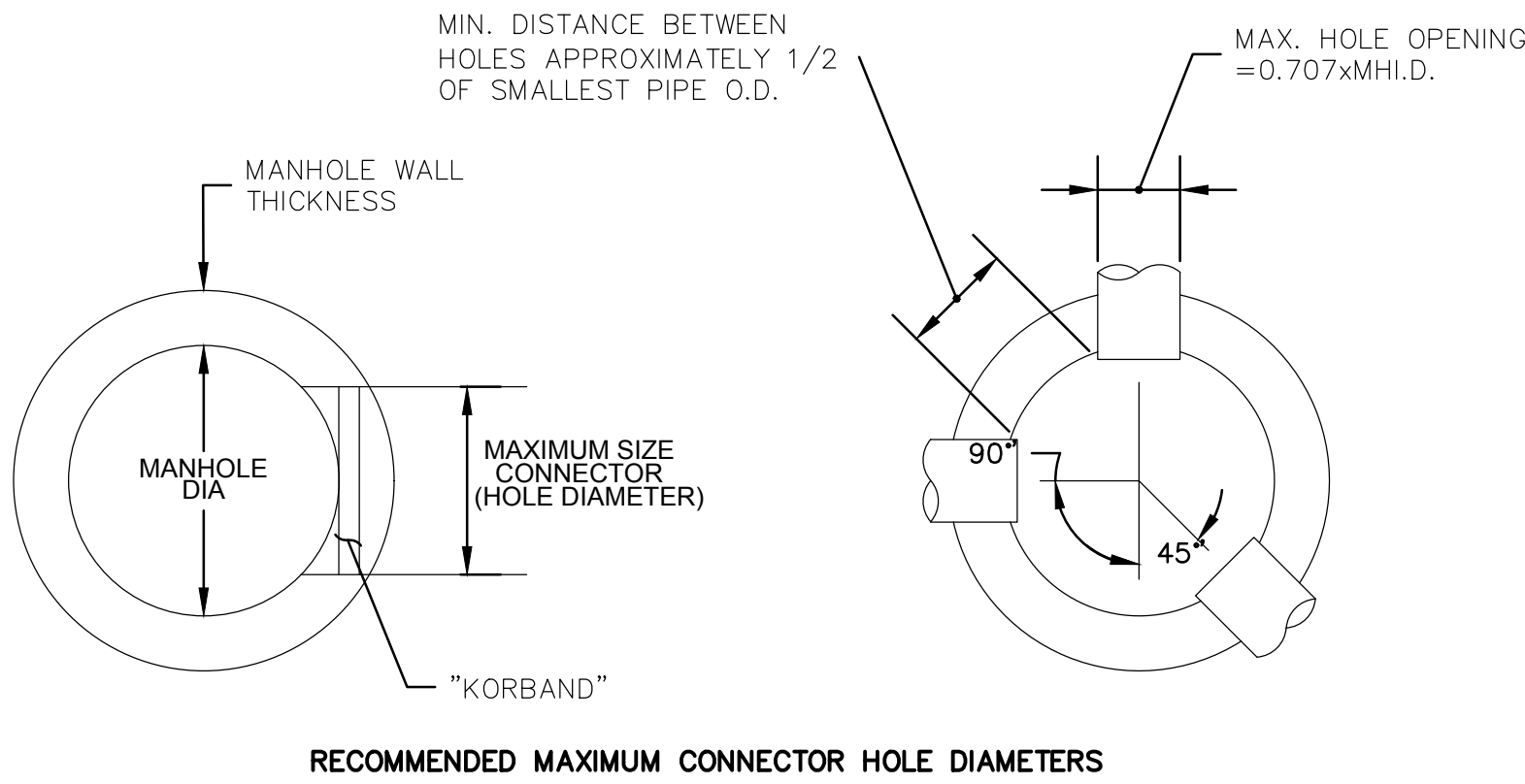
GUTTER INLET DETAIL
N.T.S.



CATCH BASIN PROTECTION DETAIL
N.T.S.

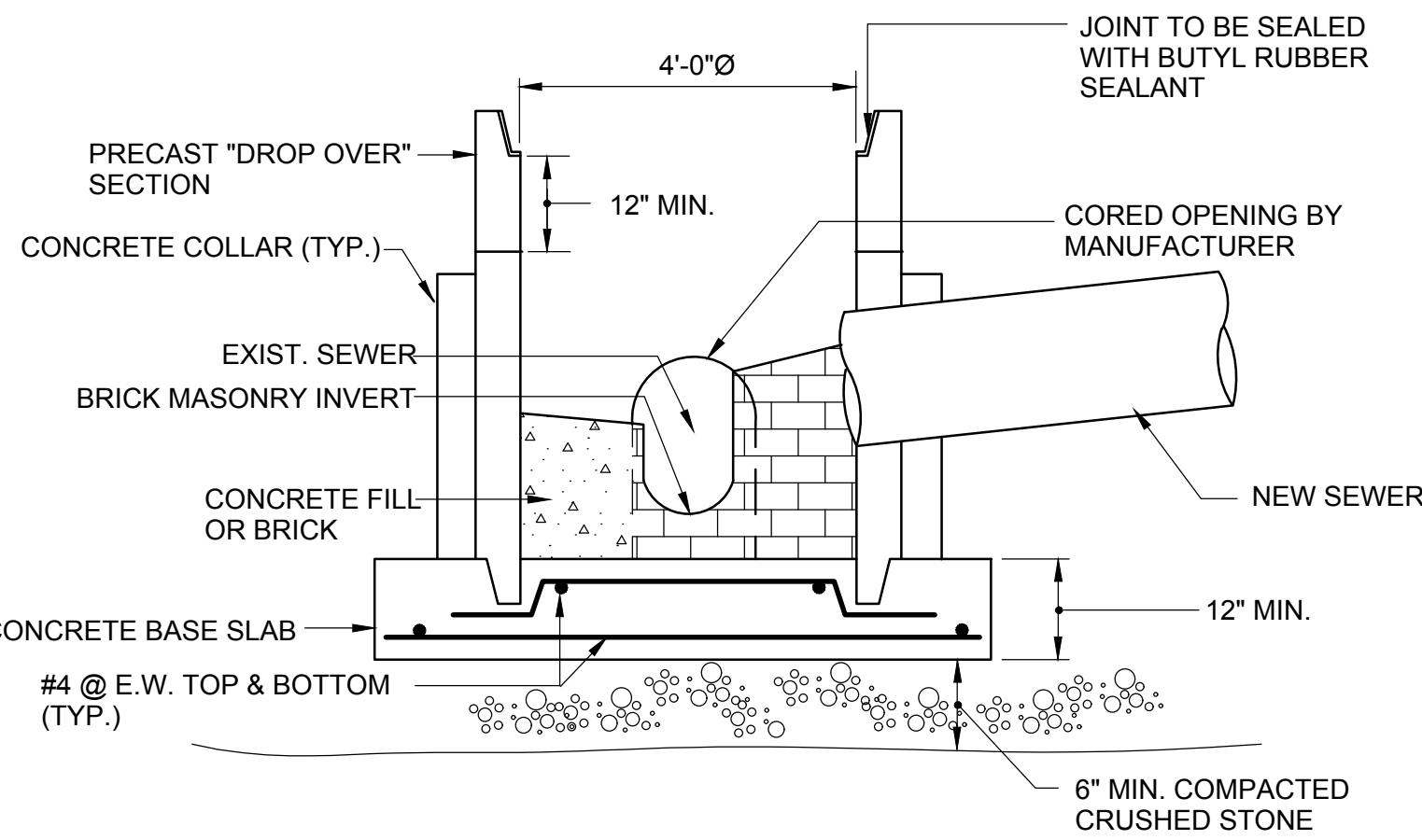


TYPICAL BUILDING CONNECTION DETAIL
N.T.S.



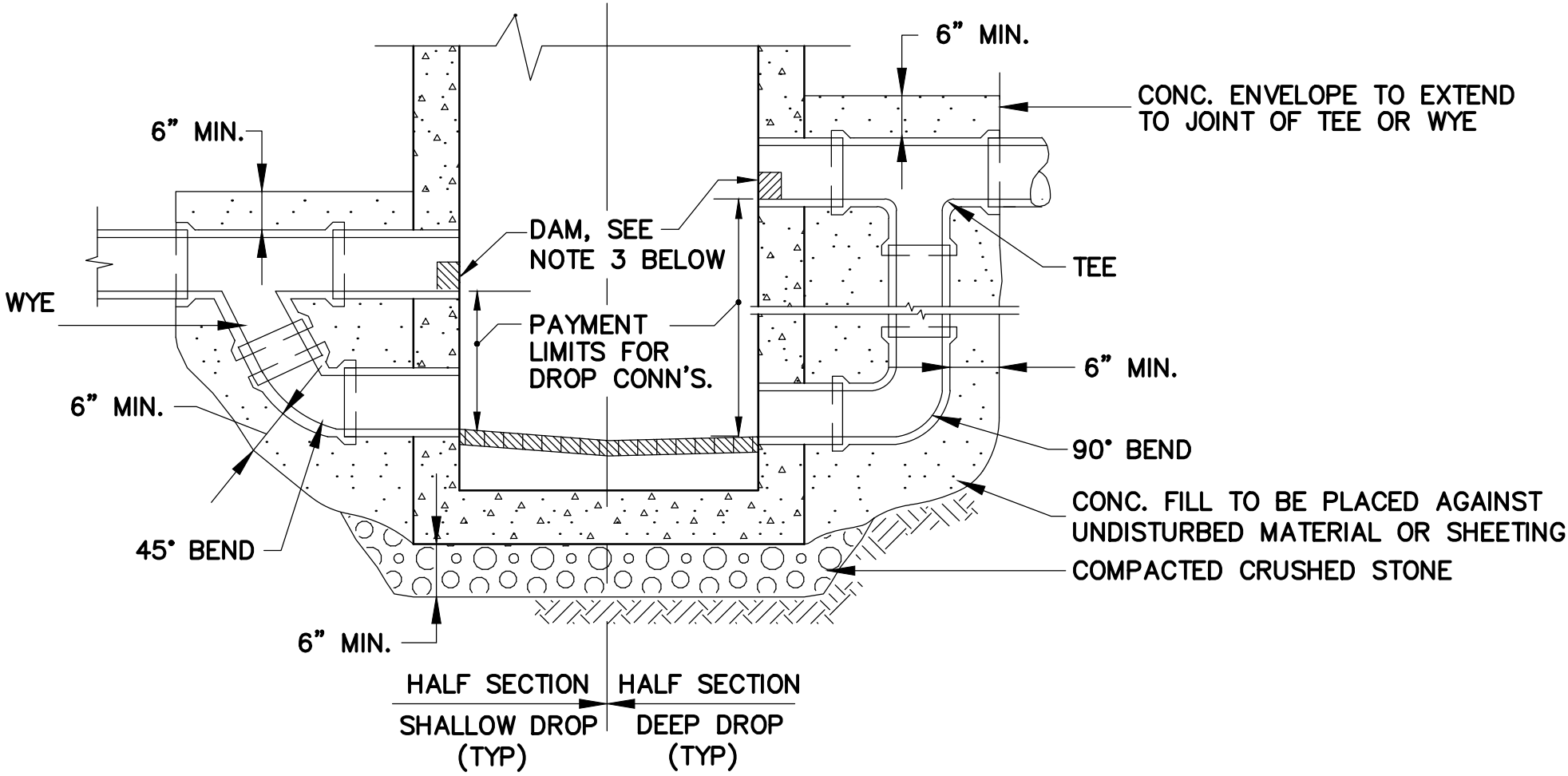
RECOMMENDED MAXIMUM CONNECTOR HOLE DIAMETERS

MH DIA.	MINIMUM WALL THICKNESS	FOR CORED CONNECTIONS		CAST-IN-PLACE CONNECTIONS	
		STRAIGHT OR 45 DEG DEFL.	90 DEGREE DEFLECTION	STRAIGHT OR 45 DEG DEFL.	90 DEGREE DEFLECTION
4 FOOT	5 INCH	28 INCH	25 INCH	31.5 INCH	25 INCH
5 FOOT	6 INCH	34 INCH	32 INCH	42 INCH	32 INCH
6 FOOT	7 INCH	42 INCH	38 INCH	51 INCH	38 INCH
7 FOOT	8 INCH	48 INCH	44 INCH	59 INCH	44 INCH
8 FOOT	9 INCH	56 INCH	50 INCH	73.5 INCH	50 INCH



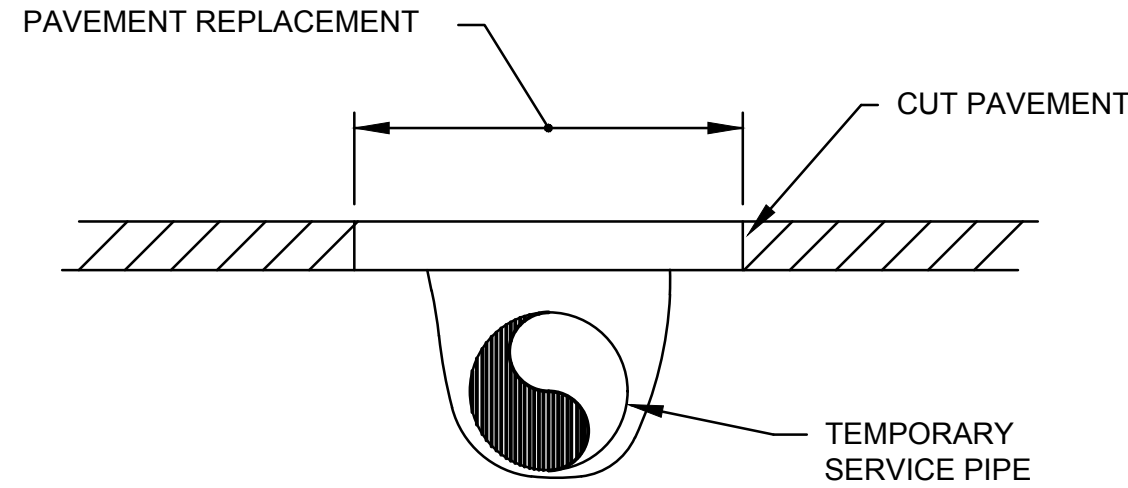
NOTE:
THE "DROP OVER" SECTION SHALL BE INDEPENDENTLY SUPPORTED TO ALLOW FOR PROPER CURING OF THE BASE SLAB

DROPOVER MANHOLE BASE
N.T.S.



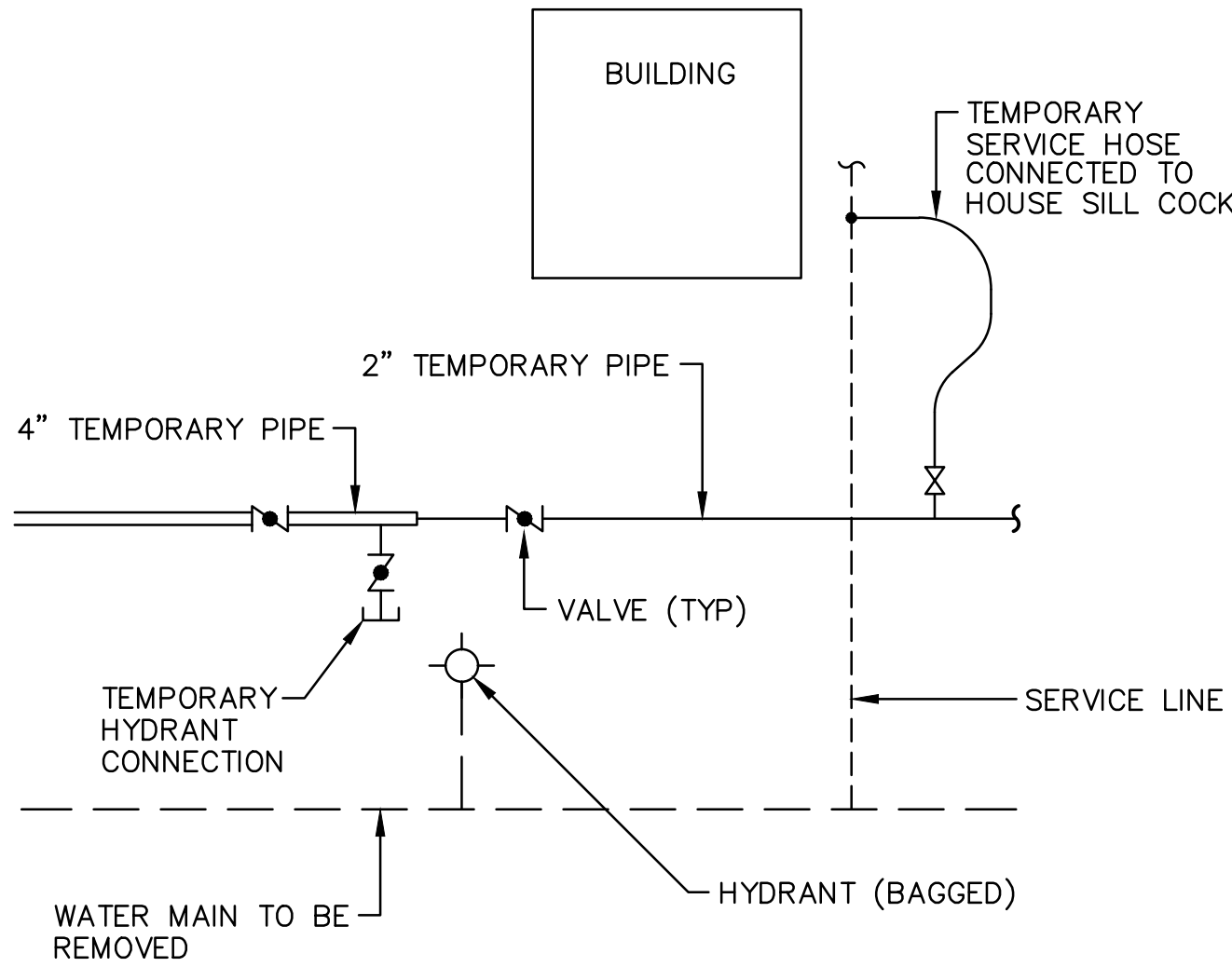
NOTES:
1. DROP PIPE TO BE SAME DIAMETER AS SEWER DISCHARGE INTO MANHOLE UNLESS OTHERWISE SHOWN ON DRAWINGS.
2. DIMENSIONS & CONSTRUCTION OF DROP MANHOLE TO BE SIMILAR TO TYPICAL MANHOLE EXCEPT AS SHOWN.
3. FOR PVC PIPE, EPOXY HALF PLUG TO PIPE. FOR DI, VC AND RC PIPE, MORTAR AND BRICK IN PIPE.

DROP CONNECTION DETAIL
N.T.S.

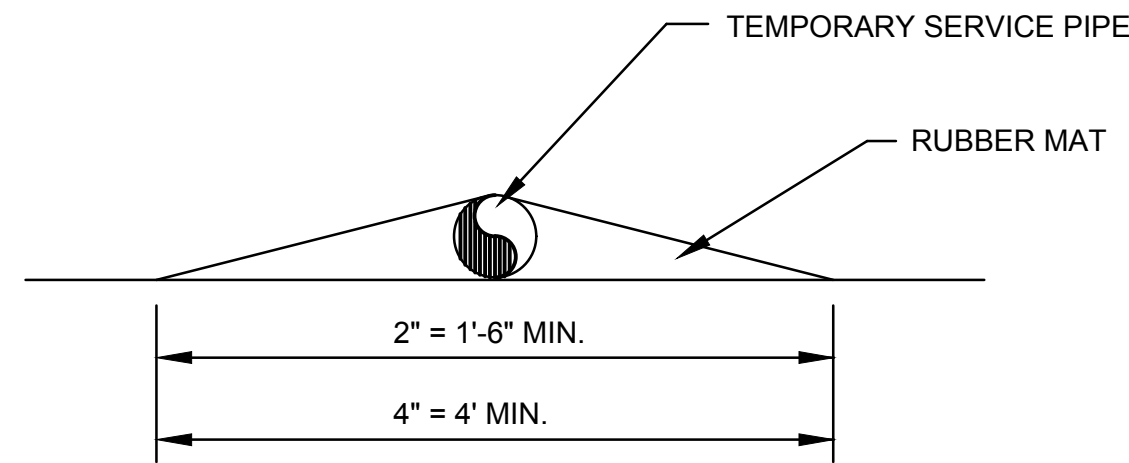


NOTES:
1. ALL TEMPORARY SERVICE PIPE SHALL BE BURIED AT ALL ROADWAY AND DRIVEWAY CROSSINGS.

TEMPORARY SERVICE PIPE ROADWAY CROSSING DETAIL
N.T.S.



TEMPORARY WATER SERVICE DETAIL
N.T.S.



2" AND 4" TEMPORARY SERVICE PIPE DRIVEWAY CROSSING DETAIL
N.T.S.

Revisions:	No.	Date	Description

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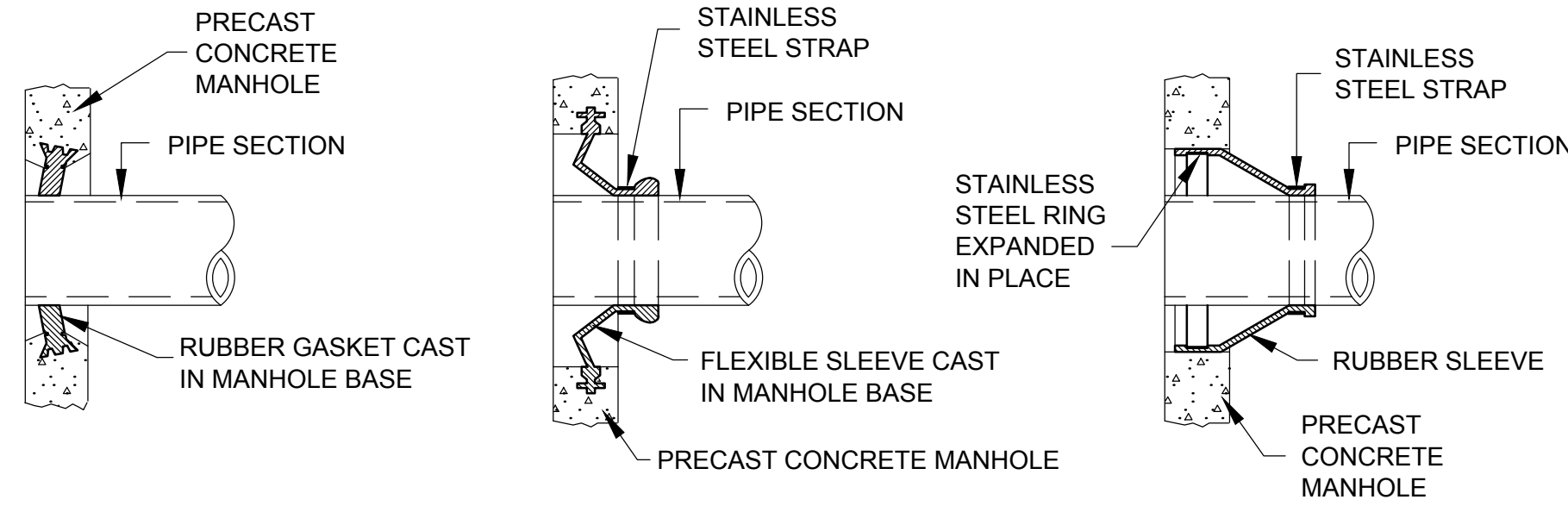
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CIVIL
No. 37973
REGISTERED PROFESSIONAL ENGINEER

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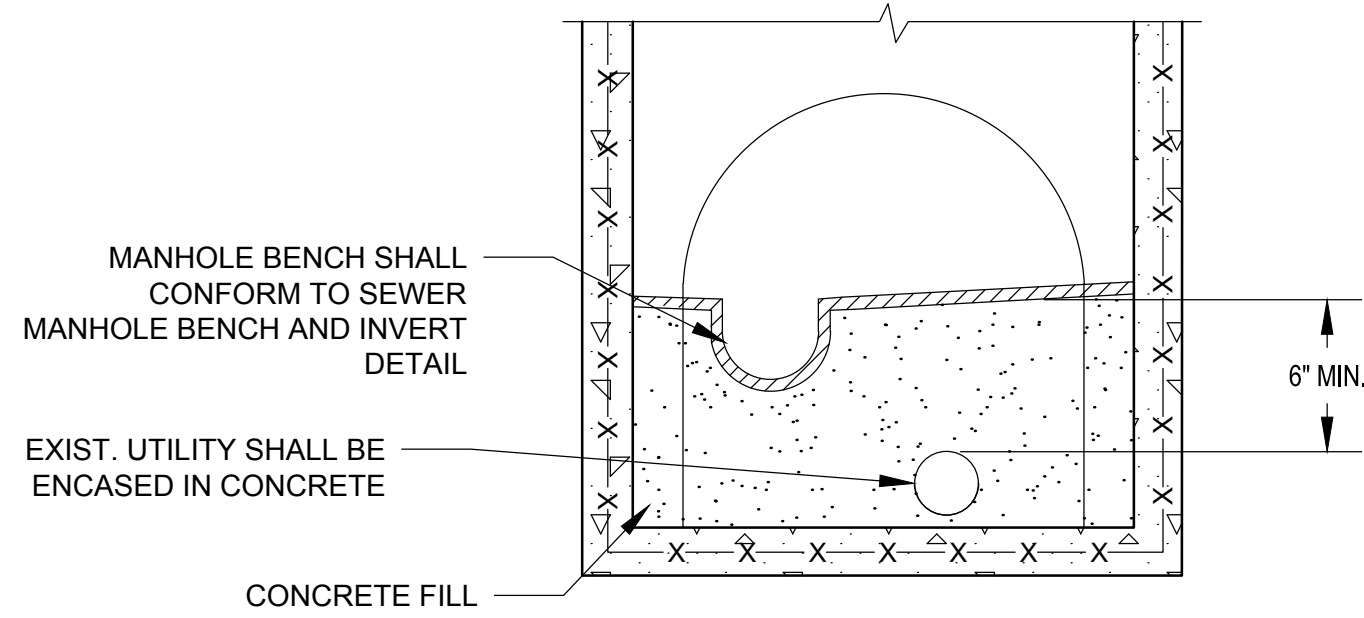
Date: MAY 2023
Drawn By: ABS
Reviewed By: FEO
Approved By: DGG
W&S Project No.: ENG22-0378
W&S File No.:

Drawing Title:
DETAILS I

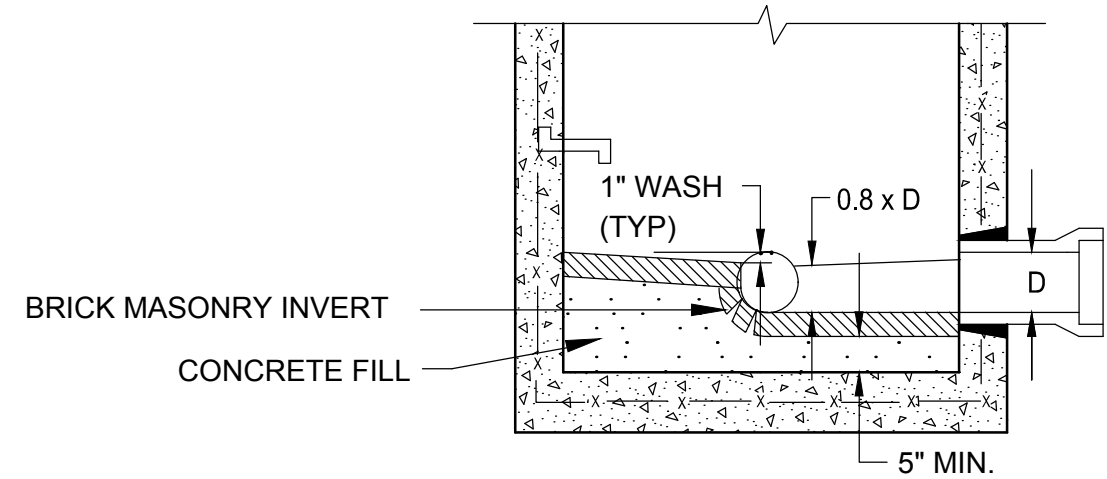
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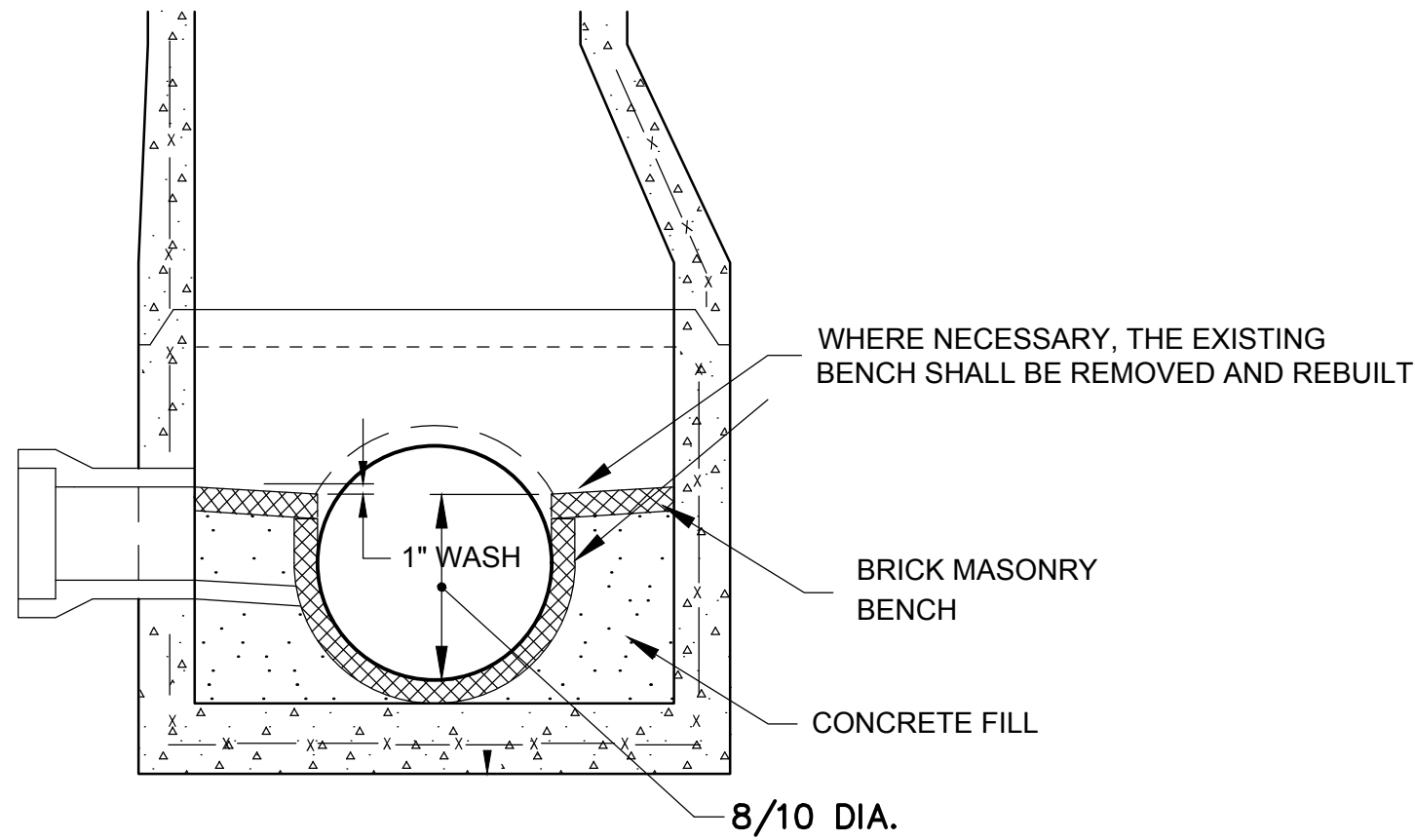
MANHOLE SEAL DETAILS
N.T.S.



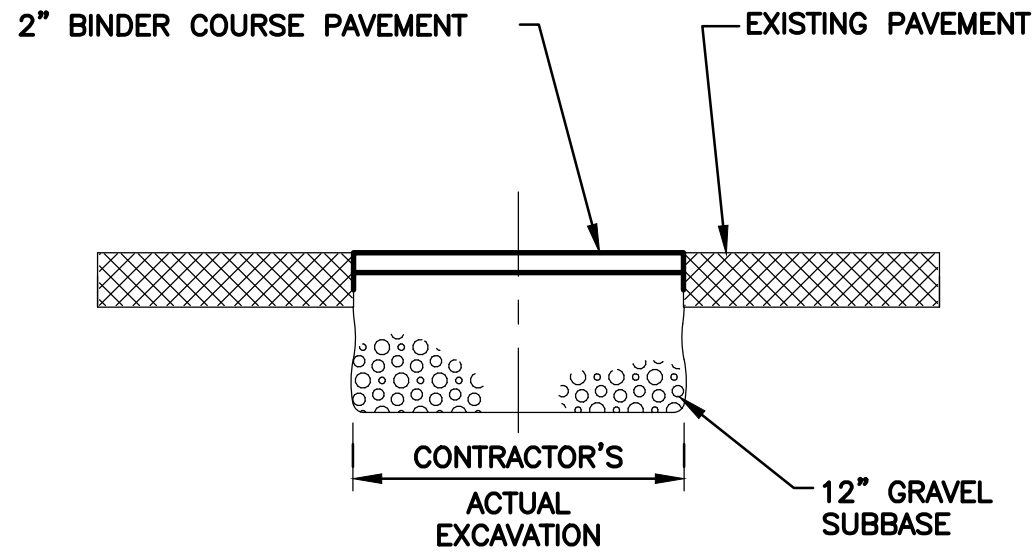
BENCH AND INVERT OVER
EXISTING UTILITY DETAIL
N.T.S.



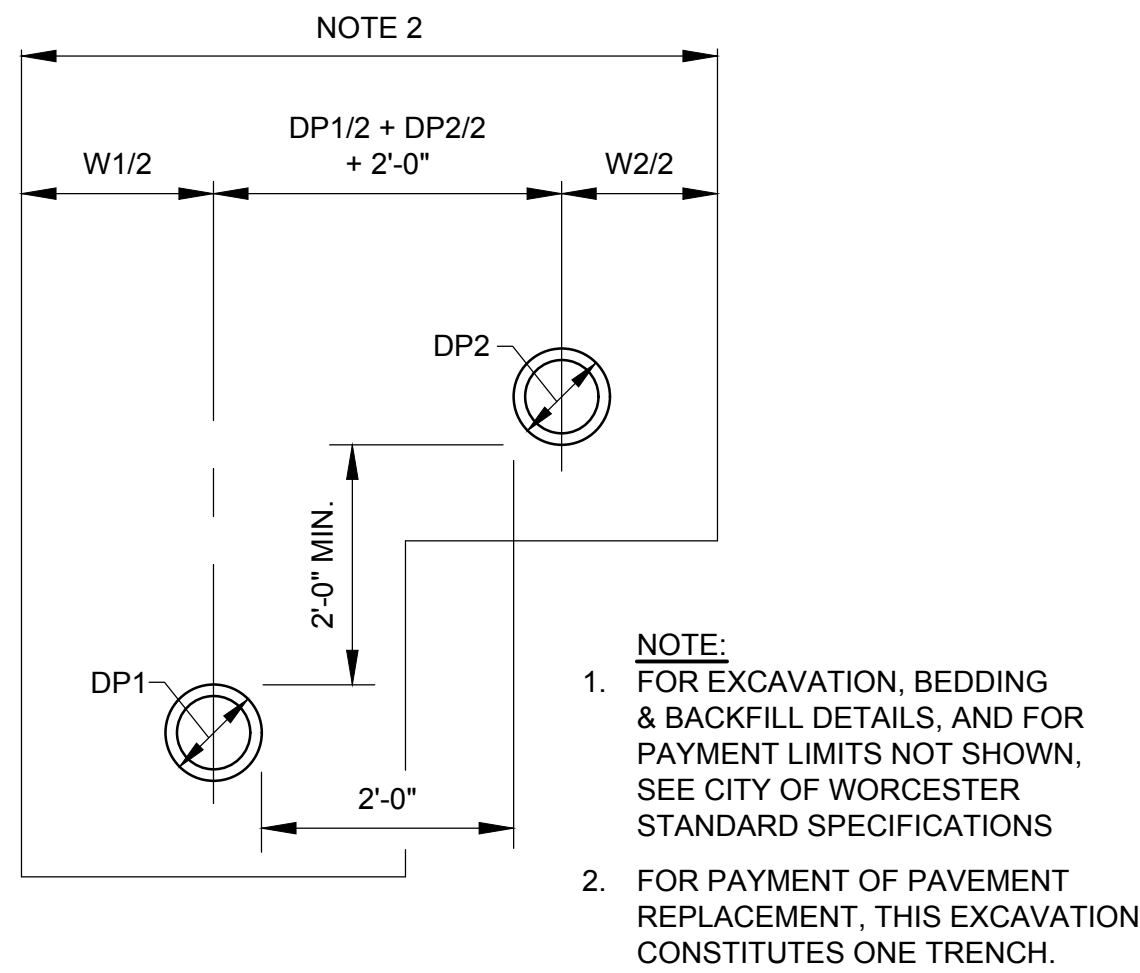
SEWER MANHOLE
BENCH AND INVERT DETAIL
N.T.S.



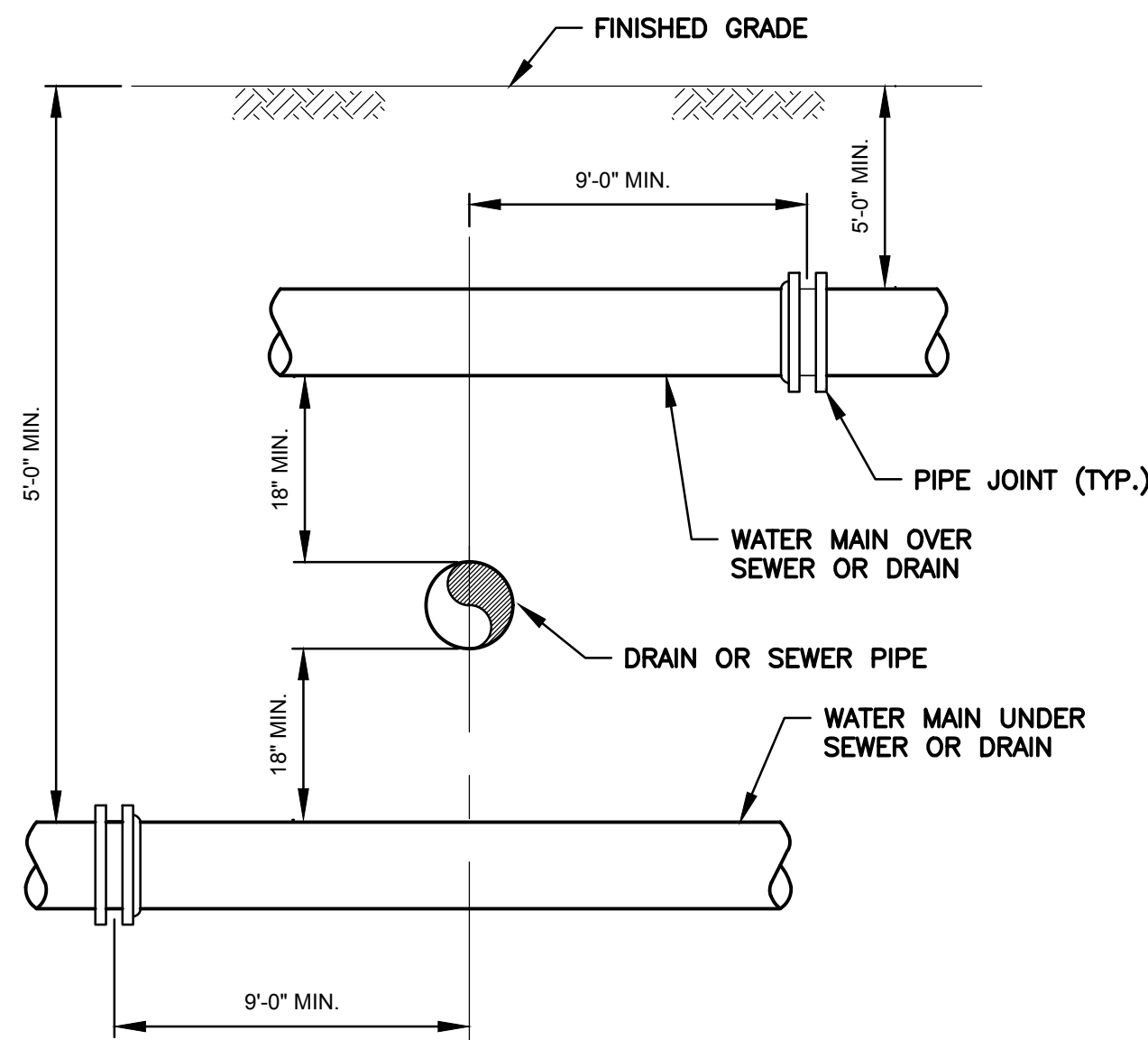
SEWER MANHOLE BENCH DETAIL
N.T.S.



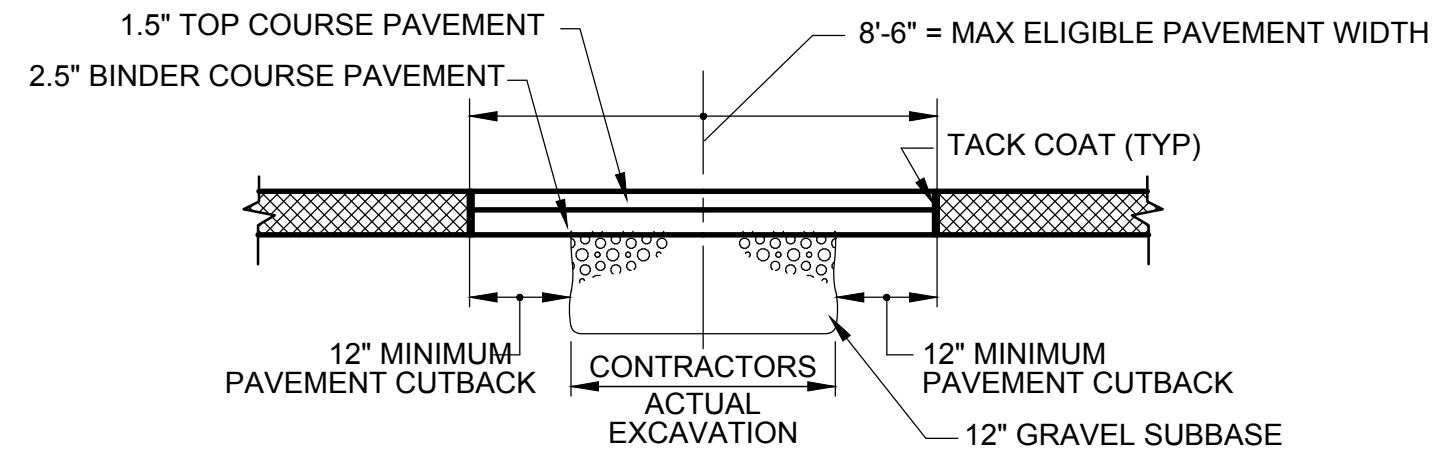
TEMPORARY PAVEMENT DETAIL
N.T.S.



SEWER AND DRAIN
IN SAME TRENCH
EXCAVATION & PAYMENT LIMITS
N.T.S.

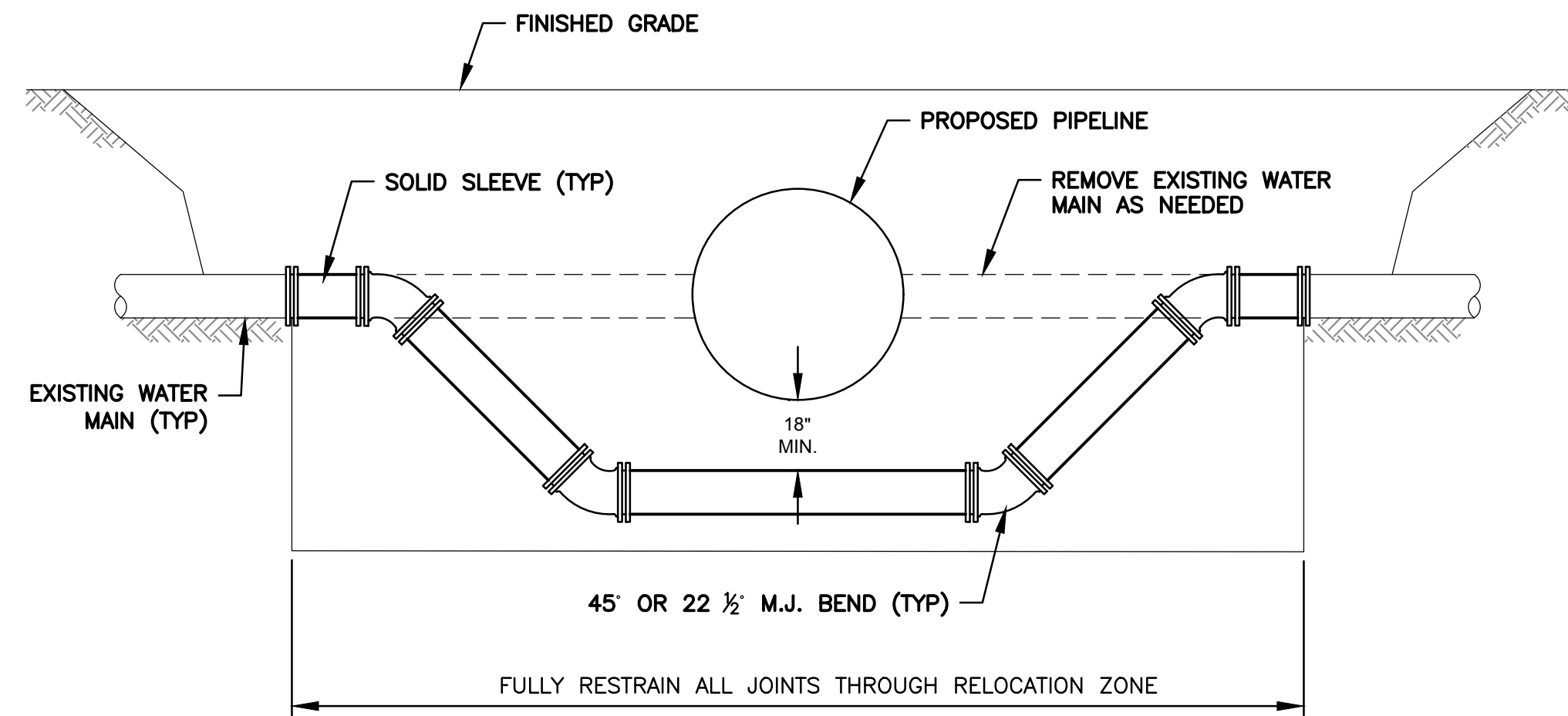


SEWER OR DRAIN CROSSING DETAIL
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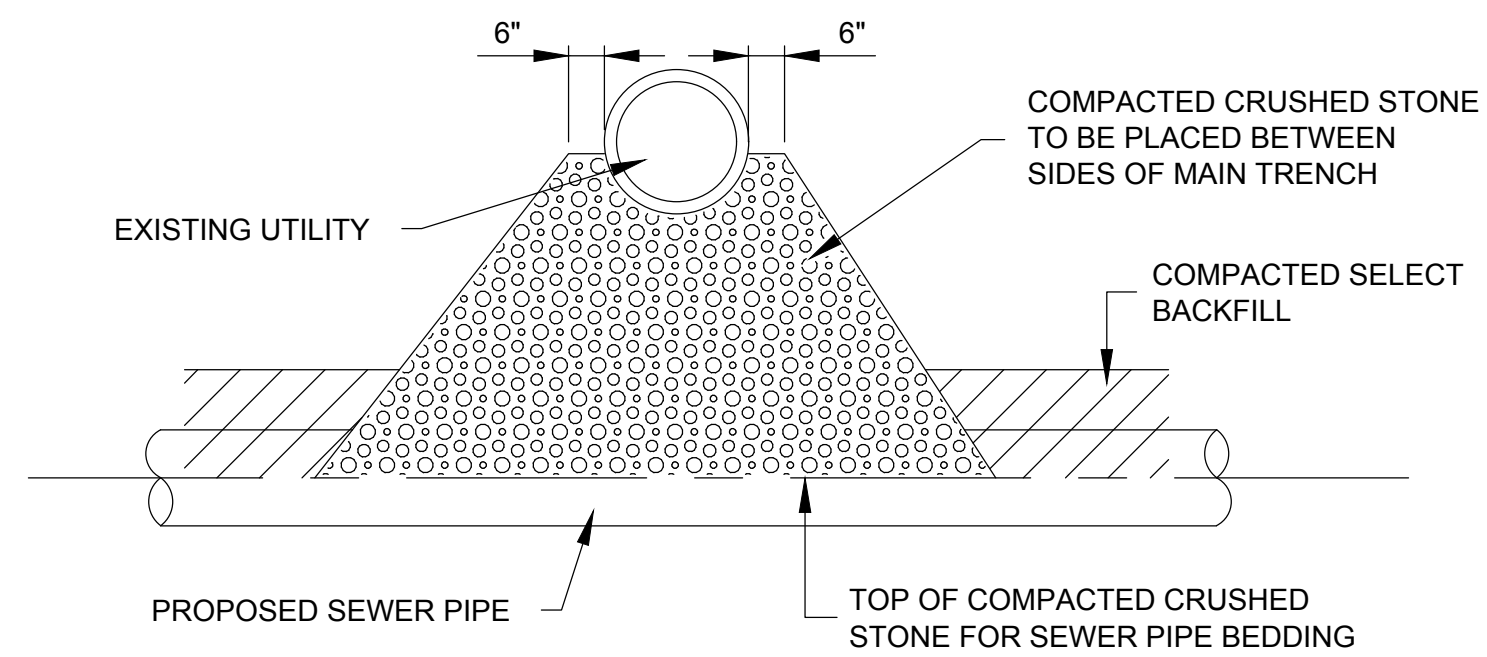


- PERM. TRENCH WIDTH PAVEMENT
FULL SECTION
- NOTES:
- 2-INCH TEMPORARY TRENCH PATCH SHALL BE INSTALLED AS SOON AS SOON AS PRACTICABLE AFTER INSTALLATION OF INDIVIDUAL PIPELINE SEGMENTS. TEMPORARY TRENCH PAVEMENT SHALL BE MAINTAINED A MINIMUM OF 90-DAYS OR UNTIL THE FOLLOWING YEAR, AT WHICH TIME PERMANENT TRENCH PAVEMENT SHALL BE INSTALLED. PERMANENT TRENCH PAVEMENT SHALL BE INSTALLED ONLY WITH THE APPROVAL OF THE 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.

PAVEMENT REPLACEMENT DETAILS
N.T.S.



EXISTING WATER MAIN RELOCATION
N.T.S.



UTILITY CROSSING DETAIL
N.T.S.

Revisions:		
No.	Date	Description

Revisions:		
No.	Date	Description

COA:	

Seal:	

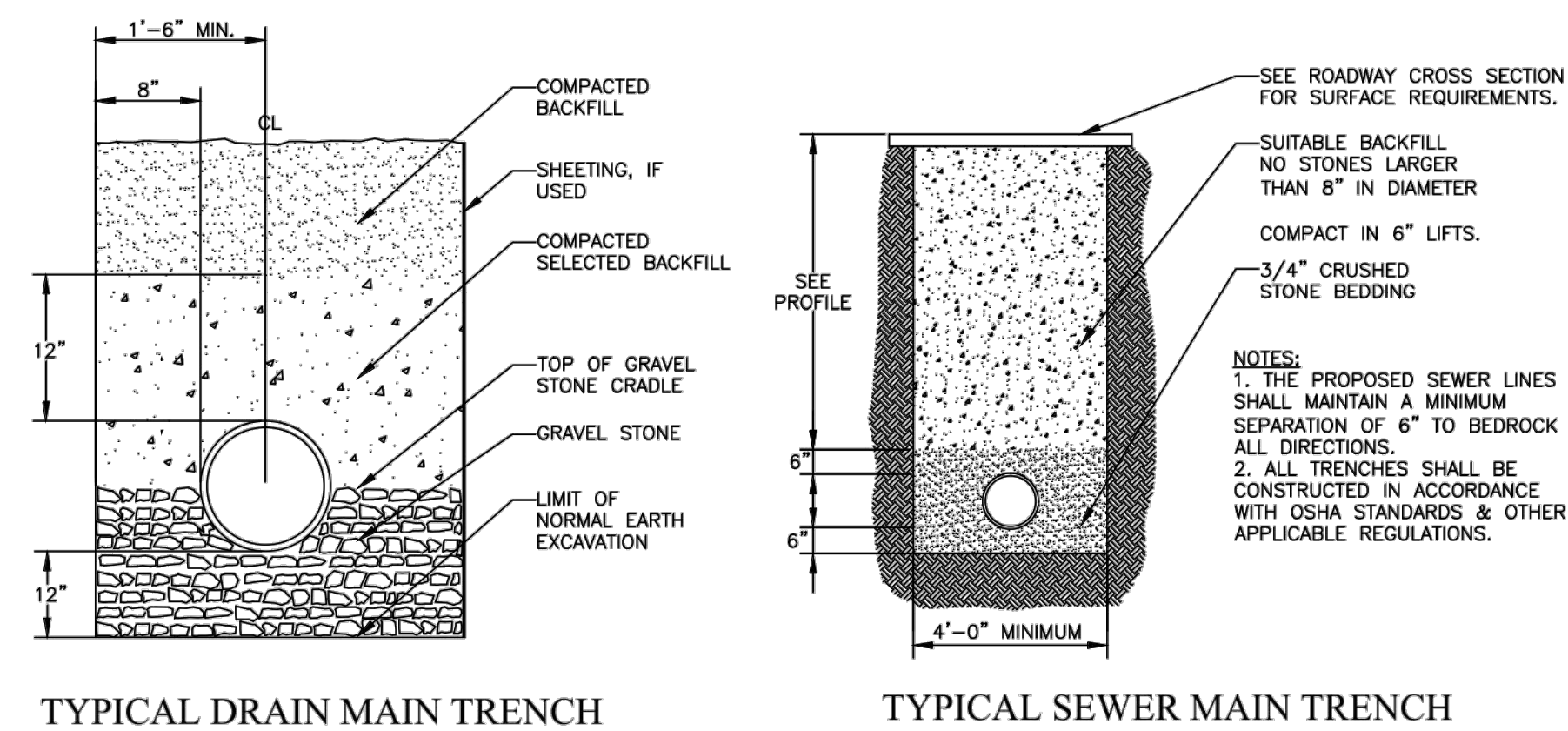
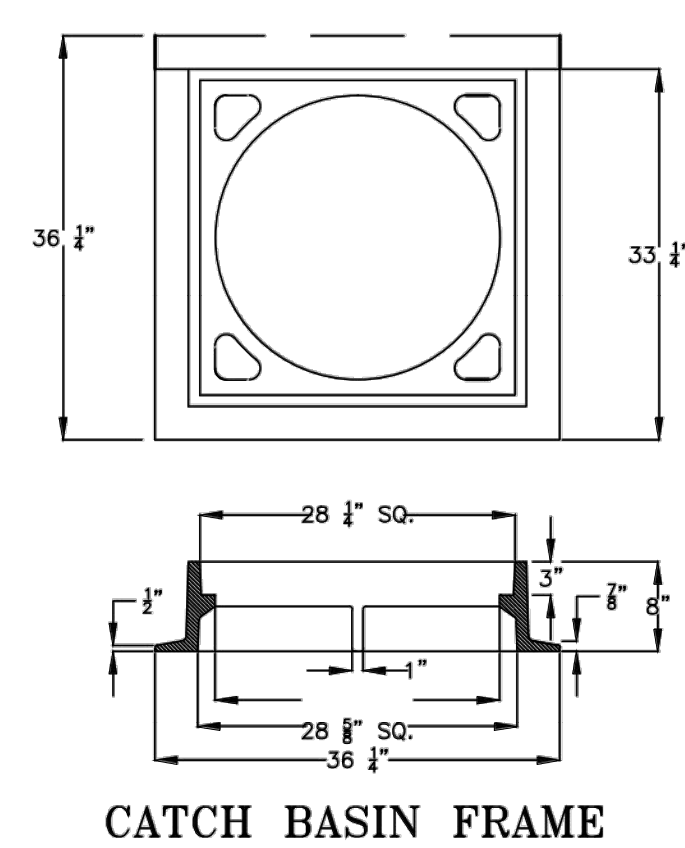
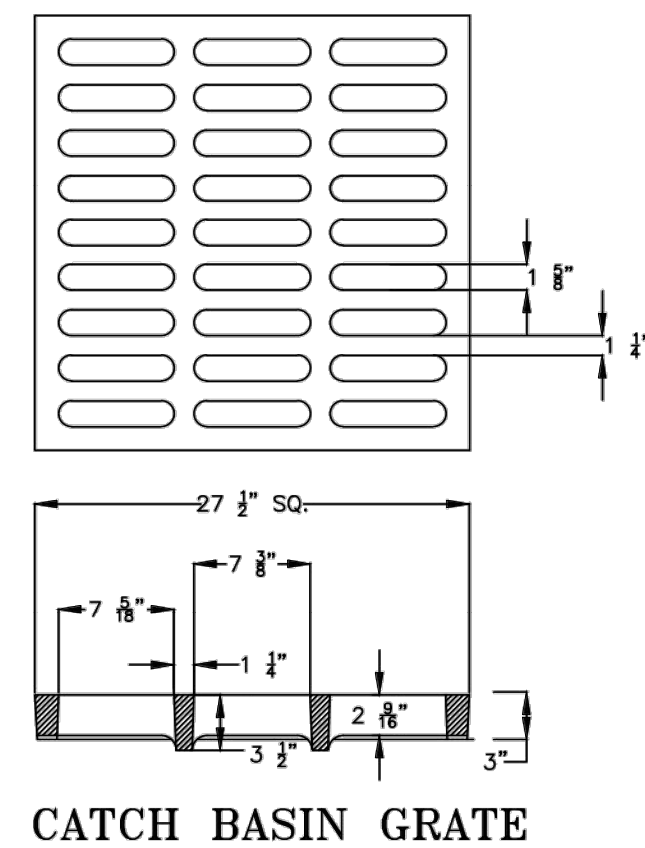
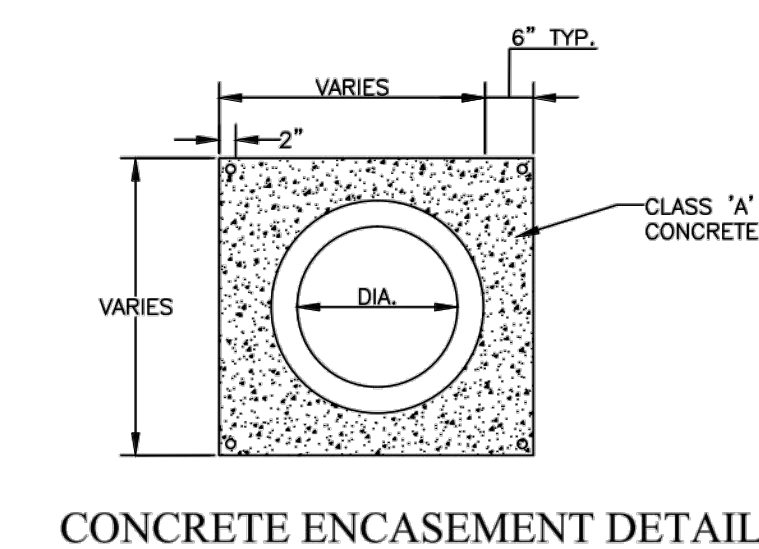
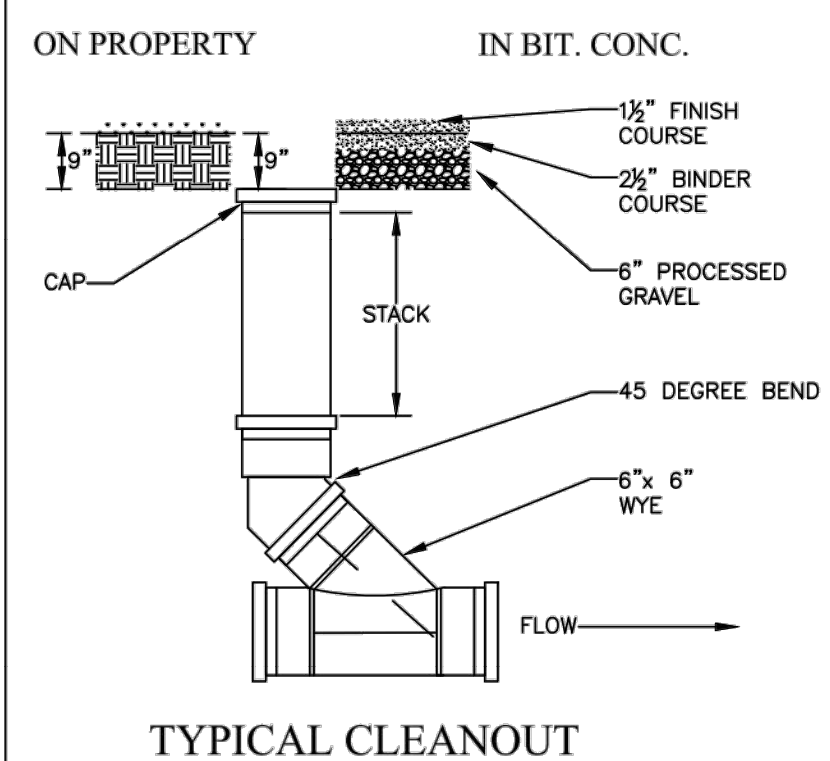
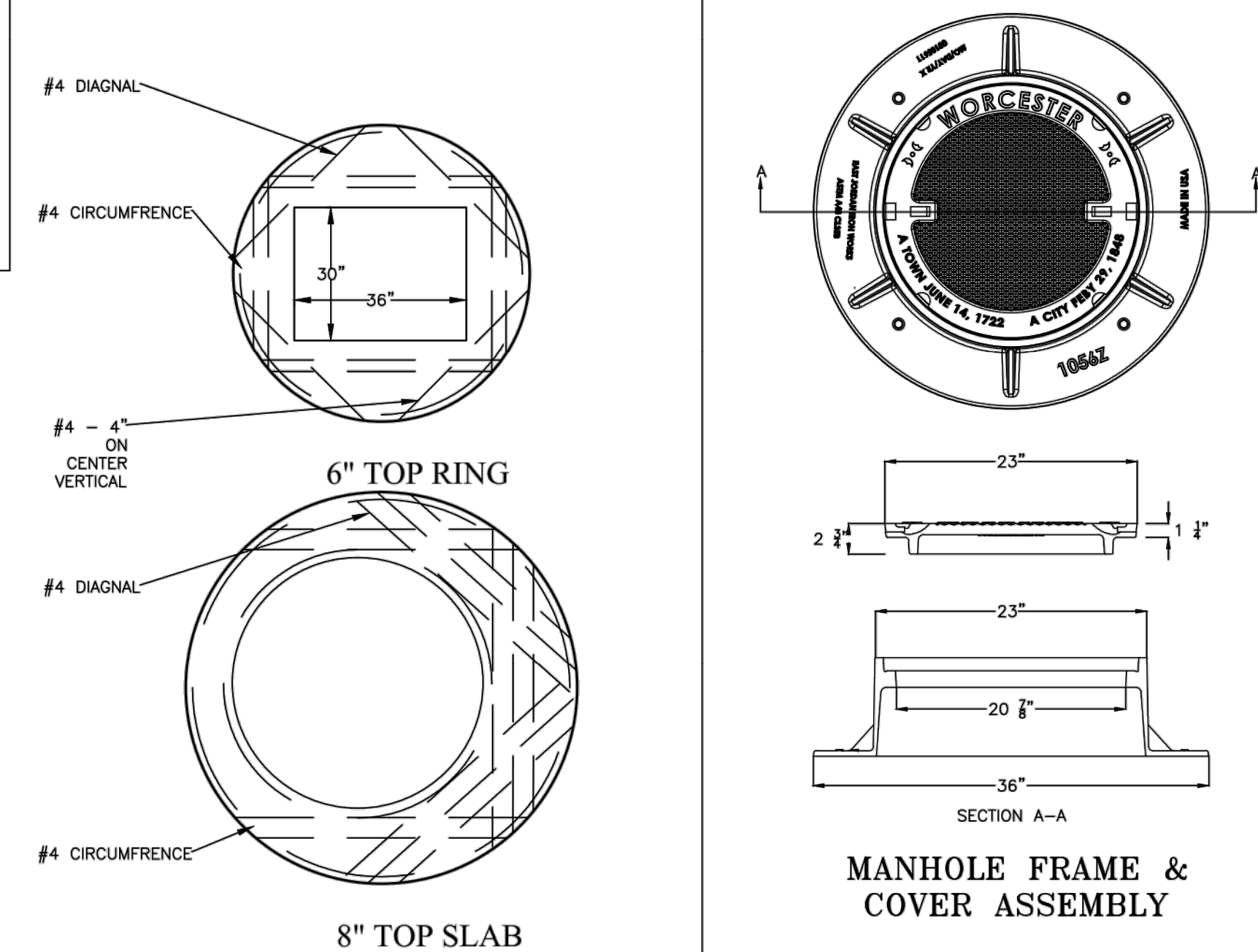
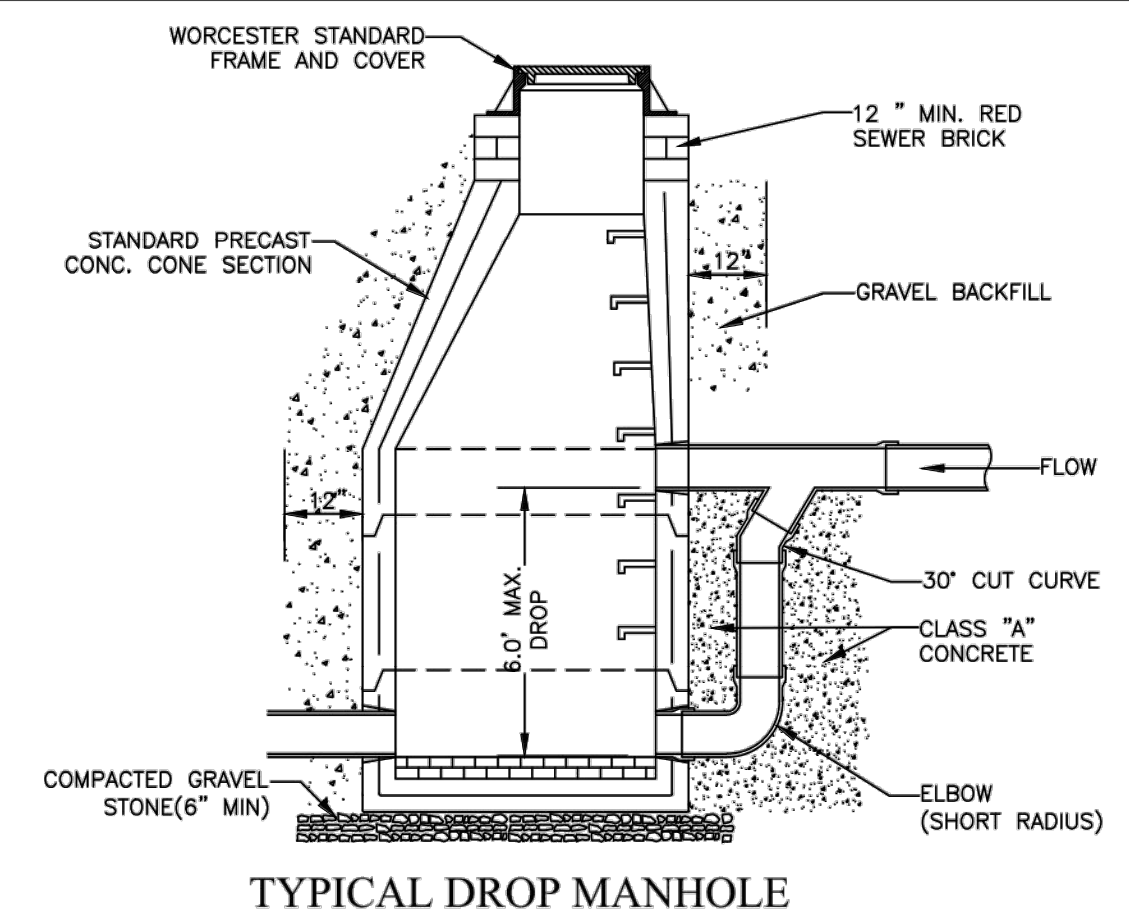
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Drawn By:	ABS
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Approved By:	DGG
W&S Project No.:	ENG22-0378
W&S File No.:	

Drawing Title:	

Sheet Number:	C502

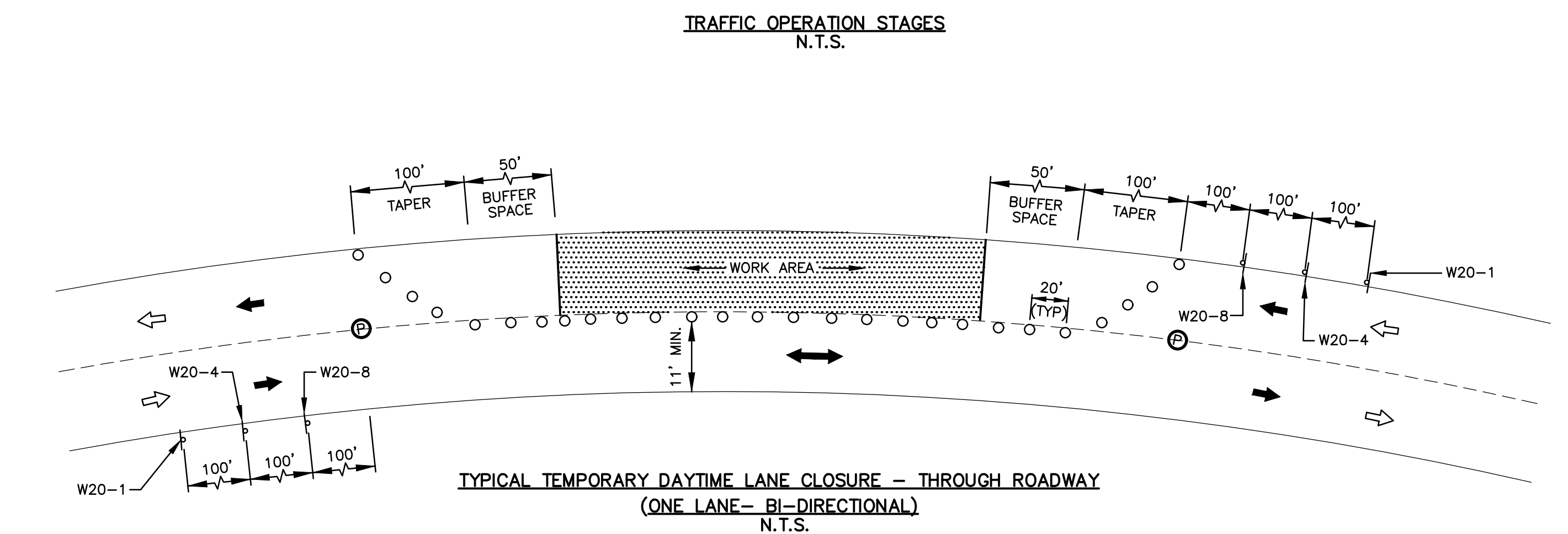


- NOTES:**
1. CONTRACTOR SHALL REFER TO THE CITY OF WORCESTER STANDARD SPECIFICATIONS & DETAILS FOR TYPICAL TEMPORARY/PERMANENT PATCH DETAIL FOR ROADWAY

Consultants:

[illegible]

C503



1. 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.
2. ADVANCE WARNING SIGN PLACEMENT AND TAPE LENGTH TO BE ADJUSTED ACCORDING TO TRAFFIC CONDITIONS AND DRIVEWAY OPENINGS.
3. ALL DRUMS SHALL BE APPROXIMATELY PLACED AND MOVED AS NECESSARY TO MAINTAIN ADEQUATE ABUTTER ACCESS AT ALL TIMES.
4. 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.
5. NONESSENTIAL TRAFFIC CONTROL DEVICES SHALL BE COVERED OR REMOVED DURING NON-WORKING HOURS.
6. PEDESTRIANS SHALL BE PROVIDED WITH ACCESS AND SAFE PASSAGE THROUGH THE TEMPORARY TRAFFIC CONTROL ZONE AT ALL TIMES.
7. 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.
8. ADVISORY SPEED PLATES (W13-1 - SEE CURRENT EDITION OF MUTCD) SHALL BE USED IF APPLICABLE AND AS REQUIRED BY THE ENGINEER.
9. NO DIFFERENCE IN ROADWAY LANE ELEVATION WILL BE ALLOWED AT THE END OF THE WORK DAY.
10. 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.
11. DASHED LINES SHOW LANE DESIGNATIONS TO BE USED DURING CONSTRUCTION.
12. THE CONTRACTOR SHALL SUBMIT ANY REVISIONS TO THE CONSTRUCTION ZONE SAFETY PLAN TO THE ENGINEER FOR APPROVAL.
13. THIS CONSTRUCTION ZONE SAFETY PLAN SHALL NOT RELIEVE THE CONTRACTOR OF HIS SOLE RESPONSIBILITY FOR CONSTRUCTION SITE SAFETY.