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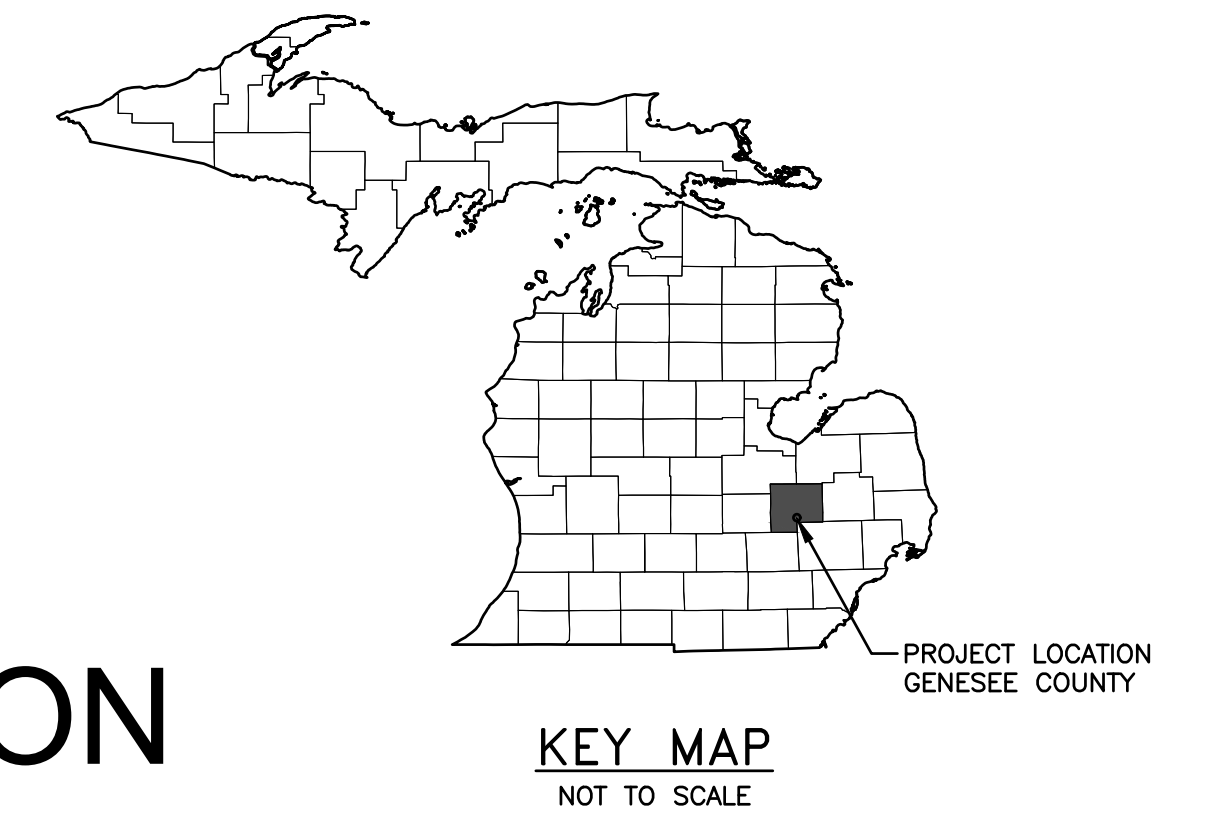
# THE CITY OF FLINT

IN COOPERATION WITH THE

## MICHIGAN DEPARTMENT OF TRANSPORTATION AND FEDERAL HIGHWAY ADMINISTRATION

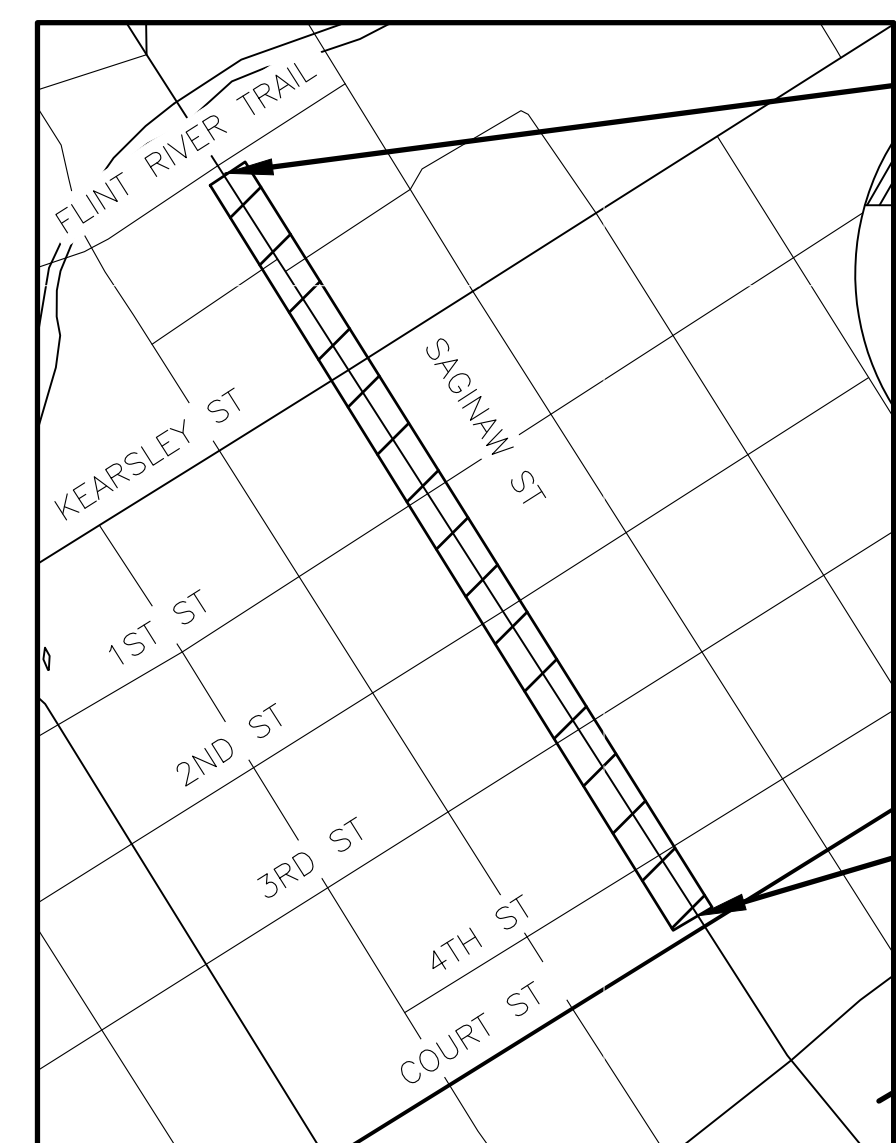
PLAN AND PROFILE OF PROPOSED

# SAGINAW STREET WATERMAIN RECONSTRUCTION COURT STREET TO THE FLINT RIVER



CITY OF FLINT, GENESSEE COUNTY, MICHIGAN  
PROJECT LENGTH = 0.46 MILES (2,472 FEET)  
MDOT PROJECT NUMBER JN130632

UTILITIES & MUNICIPALITIES	
<b>CITY OF FLINT</b> DEPARTMENT OF PUBLIC WORKS 3310 E. COURT STREET FLINT, MICHIGAN 48506 CONTACT: MIKE BROWN, DIRECTOR DEPARTMENT OF PUBLIC WORKS DIRECTOR PHONE: 810.766.7202, EXT. 3413	<b>CITY OF FLINT</b> DEPARTMENT OF PUBLIC WORKS 1101 S. SAGINAW STREET, NORTH BUILDING FLINT, MICHIGAN 48502 CONTACT: MARK ADAS, CITY ENGINEER PHONE: 810.766.7165, EXT. 2601
<b>CITY OF FLINT</b> DEPARTMENT OF PUBLIC WORKS WATER DEPARTMENT 702 WEST 12TH STREET FLINT, MICHIGAN 48502 PAUL SIMPSON, WATER DIST SUPERVISOR PHONE: 810.766.7202	<b>CITY OF FLINT</b> DEPARTMENT OF PUBLIC WORKS TRAFFIC ENGINEERING DIVISION 702 WEST 12TH STREET FLINT, MICHIGAN 48502 RODNEY McGAHA, TRAFFIC CONTROL PHONE: 810.691.3106
<b>TELEPHONE</b> AT&T 54 NORTH MILL STREET P.O. BOX 32 PONTIAC, MICHIGAN 48342 CONTACT: MATT SLIWA PHONE: 248.877.0762	<b>BUS ROUTES</b> FLINT COMMUNITY SCHOOLS 923 EAST KEARSLEY STREET FLINT, MI 48503 CONTACT: WILLIAM CHAPMAN, OPERATIONS PHONE: 810.767.6046
<b>ELECTRIC</b> CONSUMERS ENERGY - ELECTRIC 1801 WEST MAIN STREET OWOSSO, MICHIGAN 48867 CONTACT: TRACY MAHAR PHONE: 989.729.3250	<b>GAS</b> CONSUMERS ENERGY 3201 EAST COURT STREET FLINT, MICHIGAN 48501 CONTACT: DAVID TOMCZAK PHONE: 810.760.3503
<b>GAS</b> CONSUMERS ENERGY 3201 EAST COURT STREET FLINT, MICHIGAN 48501 CONTACT: TONNA WILCOX PHONE: 810.760.3486	<b>CABLE TV</b> B&M ASHMAN C/O COMCAST 8455 RHONDA DRIVE CANTON, MICHIGAN 48187 CONTACT: BRAD TENNING PHONE: 734.777.7910
<b>CABLE TV</b> COMCAST 25626 TELEGRAPH ROAD SOUTHFIELD, MICHIGAN 48034 CONTACT: CRAIG PUDAS PHONE: 248.809.2715	<b>FIBER OPTIC</b> FIBER LINK, INC. (GISD) 3529 WEST GENESSEE STREET LAPEER, MICHIGAN 48446 CONTACT: TINA SNOBLEN PHONE: 810.667.2891



**SAGINAW STREET - SOUTH**  
NOT TO SCALE

**LOCATION MAP**  
NOT TO SCALE

**PROTECTION OF UNDERGROUND UTILITIES**

THE CONTRACTOR SHALL CONTACT "MISS DIG" AT 800.482.7171, 811, OR VISIT WWW.MISSDIG.ORG, A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO EXCAVATING IN THE VICINITY OF UNDERGROUND UTILITIES TO VERIFY THEIR LOCATION. ADDITIONALLY, THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING UTILITY OWNERS WHO ARE NOT PART OF THE "MISS DIG" ALERT SYSTEM.



ISSUED FOR BIDDING: 1/25/2023	
JOB NO. COF1069.01F	SHEET 1

555 S. Saginaw Street, Suite 201  
Flint, MI 48502  
810.235.2555  
www.wadetrim.com

PREPARED UNDER THE SUPERVISION OF:

WADE TRIM, INC - KEVIN E. COOK, P.E.  
REGISTRATION NO. 43274

PROJECT MANAGER: Jeremy Schmitt, PE  
CA\_P10\_W000\_KC000\_KD1139411\_VCS-PLTS-COVER.DWG - COVER SHEET - PLOTTED 1/25/2023 10:03 PM BY COOK, KEVIN

SAGINAW STREET RECONSTRUCTION - CITY OF FLINT L&P



GENERAL PLAN NOTES

- 1. FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174, 2013, THE CONTRACTOR SHALL DIAL 1.800.482.7171 OR 811 OR GO TO WWW.MISSDIG.ORG A MINIMUM OF THREE FULL WORKING DAYS...
2. IT IS THE INTENT THAT ALL GOVERNMENT CORNERS ON THIS PROJECT BE PRESERVED AND THAT, WHERE NECESSARY, MONUMENT BOXES BE PLACED OR ADJUSTED...
3. CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO: EXISTING UTILITIES, WATERMAINS, AND EXISTING SANITARY OR STORM SEWERS...
4. CONTRACTOR IS RESPONSIBLE FOR METHODS TO PERFORM THE WORK EFFECTED BY EXISTING UTILITIES INCLUDING EXISTING PHONE COMPANY DUCT BANKS...
5. THE SOIL BORING AND PAVEMENT CORE LOGS REPRESENT POINT INFORMATION...
6. ELEVATIONS SHOWN ON THESE PLANS ARE FROM NAVD88 DATUM...
7. PRE-CAST STRUCTURES MAY BE UTILIZED AS APPROVED BY THE ENGINEER...
8. CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS FOR ANY NECESSARY ADJUSTMENTS TO THEIR UTILITIES...
9. THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO KEEP CONSTRUCTION DEBRIS FROM ENTERING ANY UTILITY STRUCTURE...
10. SUBGRADE UNDERCUTTING WILL BE PAID FOR SEPARATELY...
11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR COORDINATION WITH CITY GARBAGE COLLECTION...
12. ALL INTERSECTIONS ARE TO BE CONSIDERED AS COMPLETE UNITS AND THEIR GRADES DETERMINED BEFORE CONSTRUCTION...
13. WHERE TREES WITHIN THE RIGHT-OF-WAY ARE NOT SPECIFIED FOR REMOVAL, IT IS INTENDED TO PROTECT THOSE TREES AND TO PERFORM THE WORK IN A MANNER WHICH PREVENTS DAMAGE TO THE TREES AND THEIR ROOTS...
14. ALL REMOVED SIGNS AND POSTS SHALL REMAIN PROPERTY OF THE CITY, CONTRACTOR SHALL COORDINATE PICK UP OF ALL STOCKPILED SIGNS AND POSTS WITH CITY OF FLINT TRAFFIC ENGINEERING SUPERVISOR ROD MCGAHA.

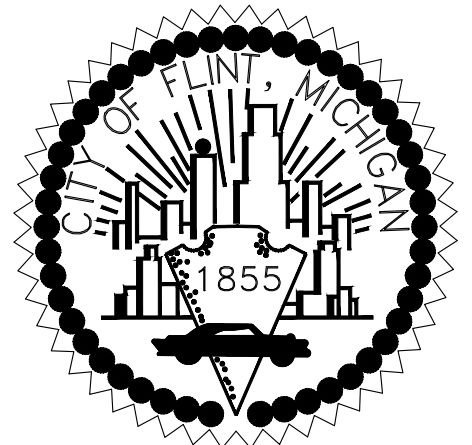
WATER MAIN NOTES

- 1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY 72 HOURS PRIOR TO BEGINNING, THE CITY OF FLINT WATER DEPARTMENT, PAUL SIMPSON 810.766.7202...
2. ALL MATERIALS AND CONSTRUCTION PROCEDURES SHALL COMPLY WITH THE CURRENT CITY OF FLINT STANDARD DETAILS & MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2020 EDITION...
3. HDPE PIPE MAY BE DR-11. ALL JOINTS MUST USE DATA LOGGER. MAY USE ELECTRIC WELD TAP OR BRASS SADDLE...
4. GATE VALVES SHALL BE MANUFACTURED FROM EAST JORDAN IRON WORKS MEETING OR EXCEEDING AWWA C509...
5. CHECK VALVES SHALL BE MANUFACTURED FROM RESILIENT WEDGE VALVE DUCTILE IRON (FLOW MASTER) RIGHT HAND OPEN MEETING OR EXCEEDING ASTM A126 GRADE B...
6. PRIOR TO REQUESTING A FINAL PRESSURE TEST, THE CONTRACTOR SHALL BE REQUIRED TO DO THE FOLLOWING ITEMS:
A) CONDUCT A PRELIMINARY PRESSURE TEST ON THE SYSTEM.
B) PROVIDE ALL RECORDS REFLECTING ACTUAL CONSTRUCTION CONDITIONS AND AS MEASURED QUANTITIES AND LOCATIONS.
C) PROVIDE MATERIAL CERTIFICATION.
D) COMPLETE FINAL ADJUSTMENTS TO GRADE OF FIRE HYDRANT AND VALVE COVERS AND PROPER CAP COLORING CODING...
7. WHERE SANITARY LEADS OR OTHER UTILITIES ARE ENCOUNTERED, THE CONTRACTOR SHALL MAKE ADJUSTMENTS TO PROVIDE CONTINUOUS SERVICE TO PROPERTIES ALONG THE ROUTE OF CONSTRUCTION...
8. CONNECTIONS TO EXISTING WATER MAINS AND VALVES SHALL BE INSPECTED/SUPERVISED BY THE CITY OF FLINT STAFF...
9. ALL WATER MAIN SHALL HAVE A MINIMUM COVER OVER THE TOP OF THE PIPE OF 5.5' FROM FINISHED GRADE...
10. CONTRACTOR SHALL RESTRAIN ALL THRUST IN THE SYSTEM BY THE USE OF THRUST BLOCKS...
11. EXISTING GATE WELLS SHALL BE REMOVED (MINIMUM 2 FT BELOW SUBBASE) AS NOTED ON THE PLAN SHEETS...
12. THE PROJECT SHALL REQUIRE FINAL RESTORATION IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS...
13. WATER MAINS SHALL BE CHLORINATED IN ACCORDANCE WITH AWWA C651-14...
14. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL PROCEDURES AND COSTS FOR COORDINATION WITH ALL CITY DEPARTMENTS...
15. CONTRACTOR SHALL HAVE THE OPTION OF PRESSURE TESTING THE WATER MAIN AGAINST THE VALVE...
16. THE CONTRACTOR SHALL PROVIDE CORPORATIONS (TO BE SUPERVISED BY THE CITY OF FLINT) ON THE WATER LINE FOR PRESSURE TESTING, CHLORINE ADDITION AND BLOW-OFF PURPOSES.

WATER MAIN NOTES, CONTINUED:

- ACCEPTABLE.
17. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS AND MATERIAL CERTIFICATIONS...
18. MINIMUM HORIZONTAL DISTANCE BETWEEN SEWERS AND WATER MAIN SHALL BE 10'. VERTICAL SEPARATION SHALL BE 18".
19. THE CONTRACTOR SHALL ENCASE THE WATER MAIN IN CONCRETE FOR 3' BEYOND THE LIMITS WHERE VERTICAL SEPARATION BETWEEN WATER MAIN AND OTHER UTILITY IS LESS THAN 18"...
20. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING WATER MAIN SIZE AND LOCATIONS PRIOR TO CONNECTION...
21. ALL IN LINE BENDS, FITTINGS, TEES, SOLID SLEEVES, REDUCERS, AND FIRE HYDRANTS SHALL BE CONSTRUCTED WITH MECHANICAL JOINTS...
22. DEFLECT WATER MAIN AS NOTED ON THE PLANS...
23. A MDEQ WATER MAIN PERMIT HAS BEEN OBTAINED BY THE CITY OF FLINT PRIOR TO CONSTRUCTION...
24. THE CONTRACTOR SHALL SUPPLY VALVES AND SOLID MECHANICAL JOINT SLEEVES...
25. HYDRANTS SHALL BE MUELLER SUPER CENTURION OR EAST JORDAN BR-250 CONFORMING TO CURRENT AWWA C-502...
26. ALL GATEWELL STRUCTURES SHALL BE PRECAST CONCRETE.
27. BIDDERS ARE TO INCLUDE ALL COSTS AND TIME TO OBTAIN AND COMPLY WITH PROCEDURES, APPROVALS, CHARGES AND ALL COORDINATION WITH THE CITY OF FLINT...
28. REMOVE EXISTING HYDRANTS AS INDICATED ON THE PLANS...
29. ALL WATER HYDRANTS, VALVES, FRAMES AND COVERS SALVAGED SHALL BE STOCKPILED IN AN APPROVED LOCATION FOR CITY FORCES TO COLLECT...
30. CONTRACTOR TO BORE AROUND OR SUPPORT AND ENSURE STABILITY OF EXISTING UTILITY POLE DURING PLACEMENT OF PROPOSED WATERMAIN.

DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND UTILITIES



TITLE: Notes Sheet
DRAWN BY:
CHECKED BY:
SCALE: NO SCALE
REVISIONS:
SHEET

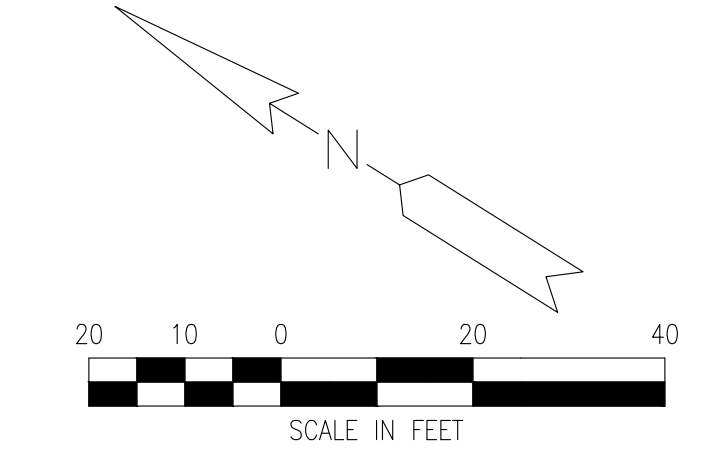
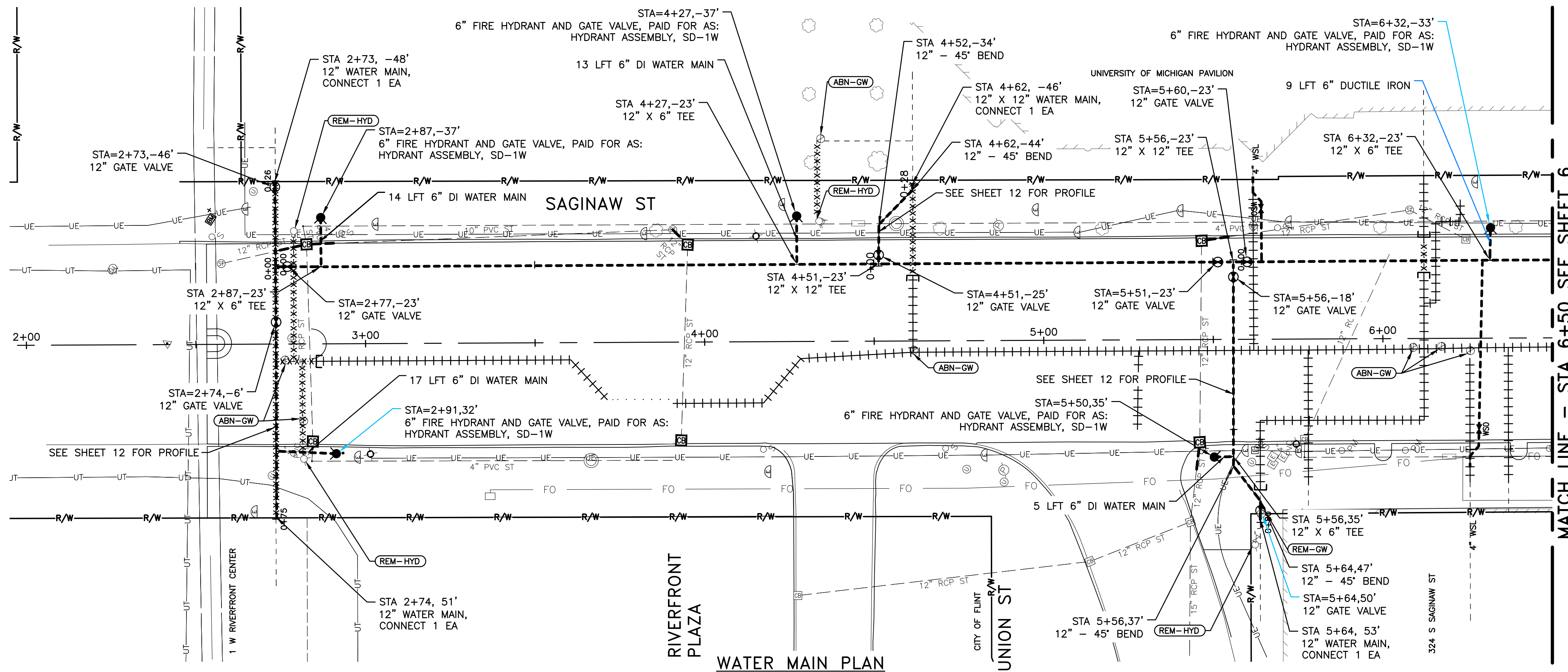
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WADE TRIM logo with address: 555 S. Saginaw Street, Suite 201, Flint, MI 48502, www.wadetrिम.com

CITY OF FLINT
1101 SOUTH SAGINAW STREET
FLINT, MI 48502
SAGINAW STREET WATER MAIN REPLACEMENT PROJECT

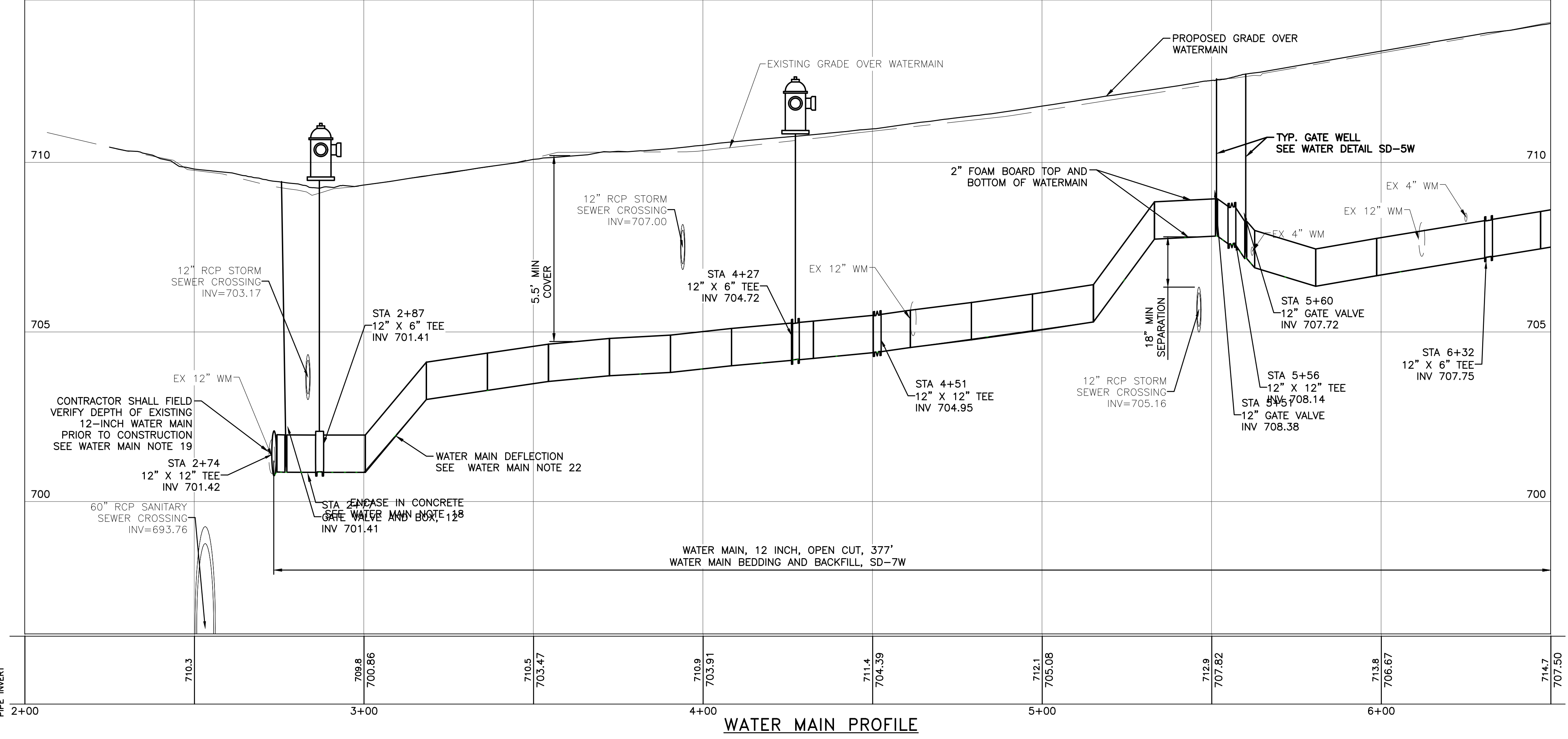
ISSUED FOR: DATE: BY: OWNER REVIEW 9-14-22 KEC IFB 1-25-23 KEC
JOB NO. COF1069.01F
SHEET 3





**QUANTITIES THIS SHEET**

DESCRIPTION	UNIT	QUANTITY
HYDRANT ASSEMBLY, SD-1W	EA	5
GATE VALVE, 12 INCH	EA	7
GATE WELL, ABANDON	EA	6
HYDRANT, REM	EA	4
WATER MAIN, 12 INCH, CUT AND PLUG	EA	4
WATER SERV	EA	1
WATER SERV, LONG	EA	1
GATE WELL, 60 INCH DIA	EA	7
GATE WELL, COVER	EA	7
WATER MAIN, 12 INCH, OPEN CUT	FT	608
WATER MAIN, 6 INCH, DI, OPEN CUT	FT	45
WATER MAIN BEDDING AND BACKFILL, SD-7W	FT	653
WATER MAIN, 12 INCH, REM	FT	146
WATER MAIN, 6 INCH, REM	FT	87
WATER MAIN CONNECT, NEW 12 INCH TO EXISTING 12 INCH	EA	4
WATER MAIN, ABANDON, FLOWABLE FILL	CYD	20



**WATER SERVICE LINES THIS SHEET**

STATION	SIZE	LENGTH
05+64	4"	25'
06+30	4"	63'

PROJECT MANAGER: Kevin E. Cook, PE  
 FIELD BOOK INFORMATION: WM 1 - PLOTTED: 1/25/2023 1:00:04 PM BY: COOK, KEVIN  
 CA:\PW\WORK\KCOOK\DT139411\CUP-PL1-WATERMAIN.DWG - WM 1 - PLOTTED: 1/25/2023 1:00:04 PM BY: COOK, KEVIN

REV#	DATE	DESCRIPTION	BY

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Flint, MI 48502  
www.wadetrtrim.com

**CITY OF FLINT**  
**1101 SOUTH SAGINAW STREET**  
**FLINT, MI 48502**  
 SAGINAW STREET WATER MAIN REPLACEMENT PROJECT  
 WM PLAN AND PROFILE SHEET  
 STA 2+53 (P.O.B.) TO STA 6+50

ISSUED FOR: DATE: BY:  
 OWNER REVIEW: 9-14-22 KEC  
 IFB 1-25-23 KEC

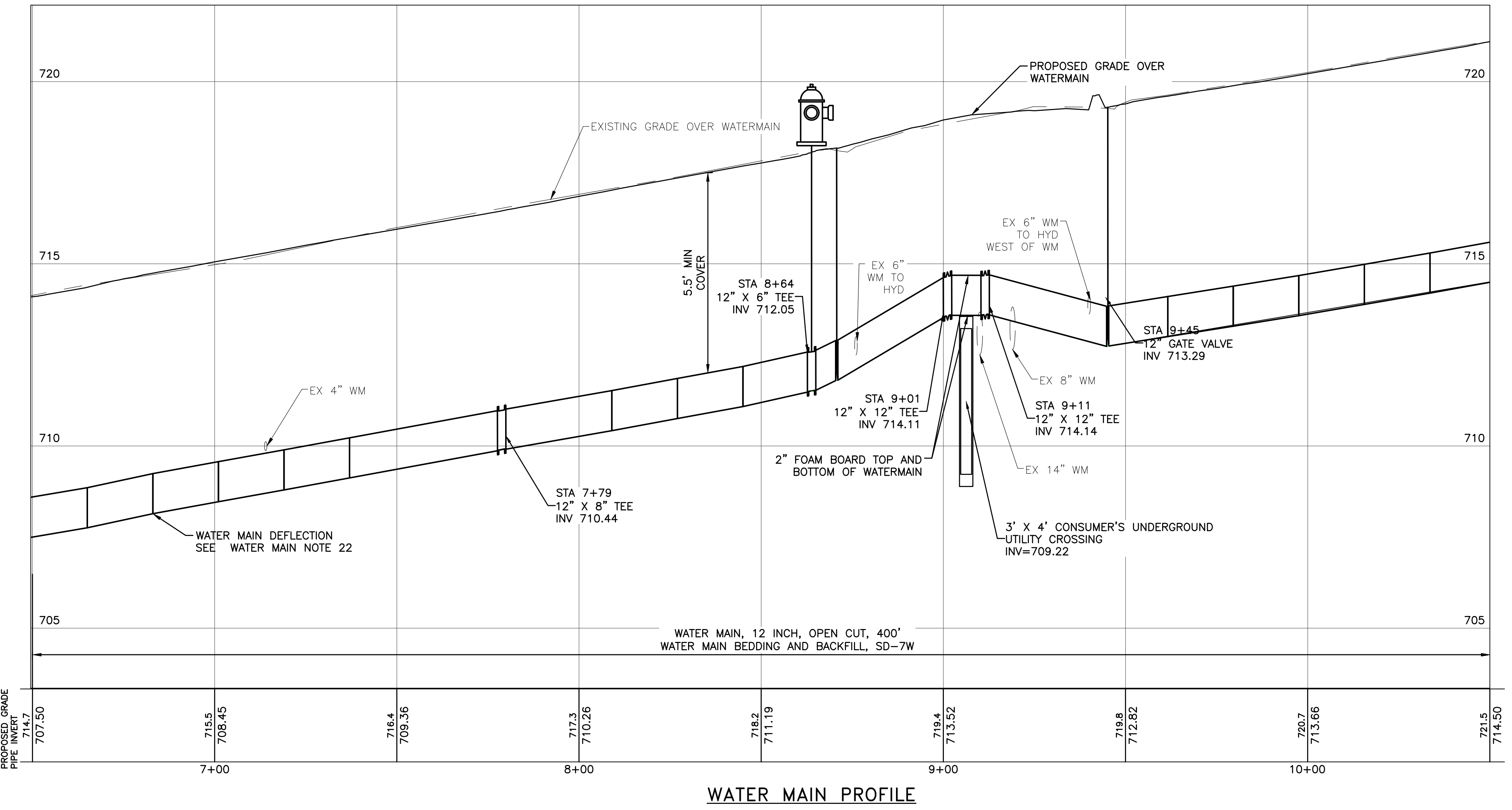
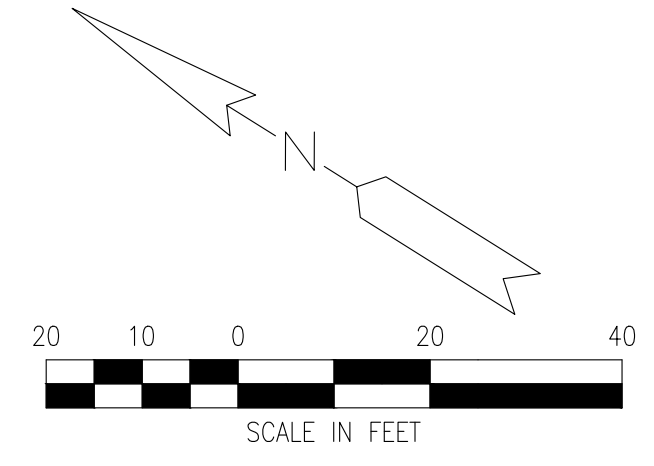
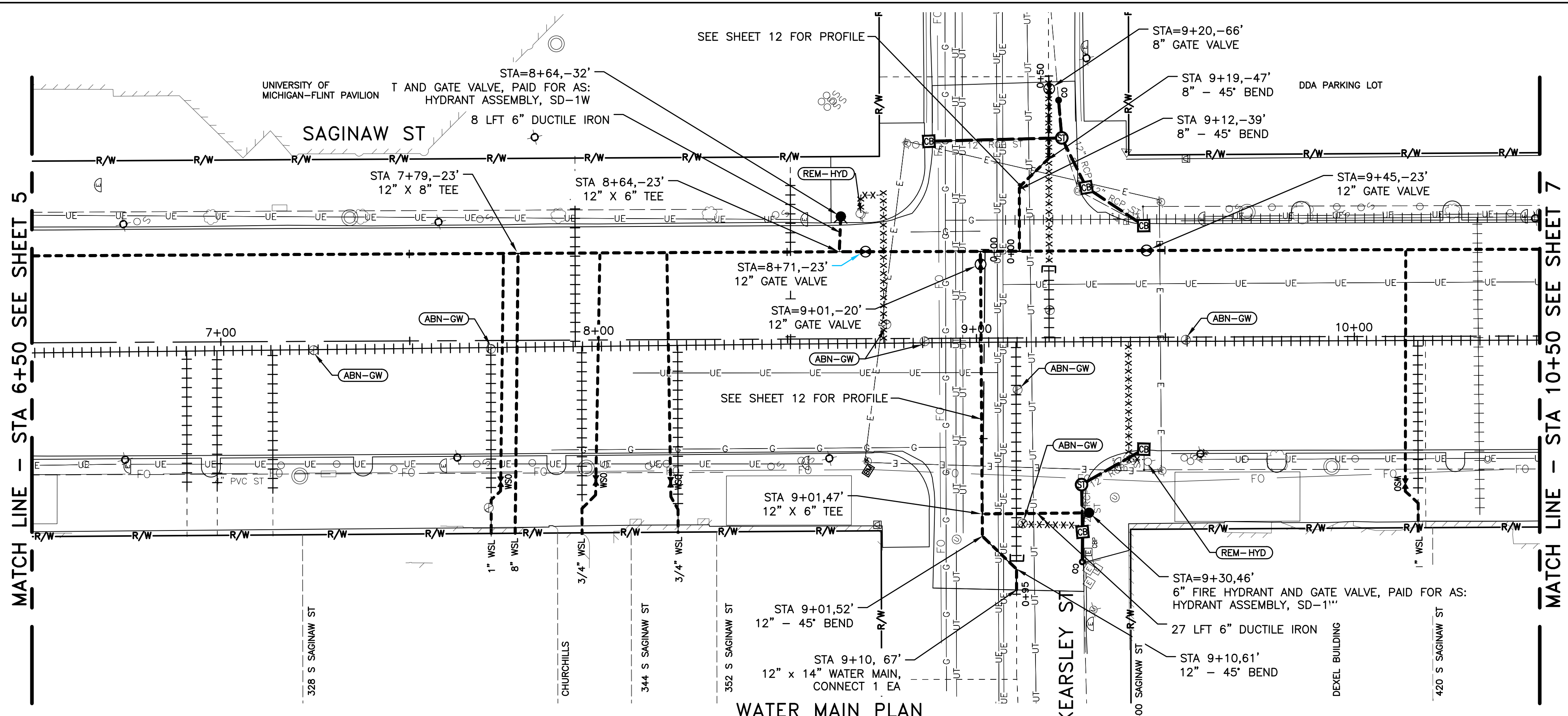
JOB NO.:  
**COF1069.01F**

SHEET  
**5**

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PROJECT MANAGER: Kevin E. Cook, PE  
 FIELD BOOK INFORMATION: WM 2 - PLOTTED 1/25/2023 1:00:04 PM BY COOK, KEVIN  
 CA:\PW\WORK\COOK\01\39411\CUP-PL1-WATERMAIN.DWG



QUANTITIES THIS SHEET		
DESCRIPTION	UNIT	QUANTITY
HYDRANT ASSEMBLY, SD-1W	EA	2
GATE VALVE, 8 INCH	EA	3
GATE VALVE, 12 INCH	EA	3
GATE WELL, ABANDON	EA	7
HYDRANT, REM	EA	2
WATER MAIN, 8 INCH, CUT AND PLUG	EA	1
WATER MAIN, 14 INCH, CUT AND PLUG	EA	1
WATER SERV, LONG	EA	4
GATE WELL, 48 INCH DIA	EA	1
GATE WELL, 60 INCH DIA	EA	3
GATE WELL, COVER	EA	4
WATER MAIN, 12 INCH, OPEN CUT	FT	493
WATER MAIN, 8 INCH, OPEN CUT	FT	48
WATER MAIN, 6 INCH, OPEN CUT	FT	35
WATER MAIN BEDDING AND BACKFILL, SD-7W	FT	576
WATER MAIN, 6 INCH, REM	FT	123
WATER MAIN, 8 INCH, REM	FT	50
WATER MAIN CONNECT, NEW 12 INCH TO EXISTING 12 INCH	EA	1
WATER MAIN CONNECT, NEW 8 INCH TO EXISTING 8 INCH	EA	1
WATER MAIN, ABANDON, FLOWABLE FILL	CYD	20

WATER SERVICE LINES THIS SHEET		
STATION	SIZE	LENGTH
07+75	1"	75'
07+99	3/4"	75'
08+18	?"	75'
10+14	1"	76'

REV#	DATE	DESCRIPTION	BY

555 S. Saginaw Street, Suite 201  
 Flint, MI 48502  
 www.wadetrtrim.com

CITY OF FLINT  
 1101 SOUTH SAGINAW STREET  
 FLINT, MI 48502  
 SAGINAW STREET WATER MAIN REPLACEMENT PROJECT  
 WM PLAN AND PROFILE SHEET  
 STA 06+50 TO STA 10+50

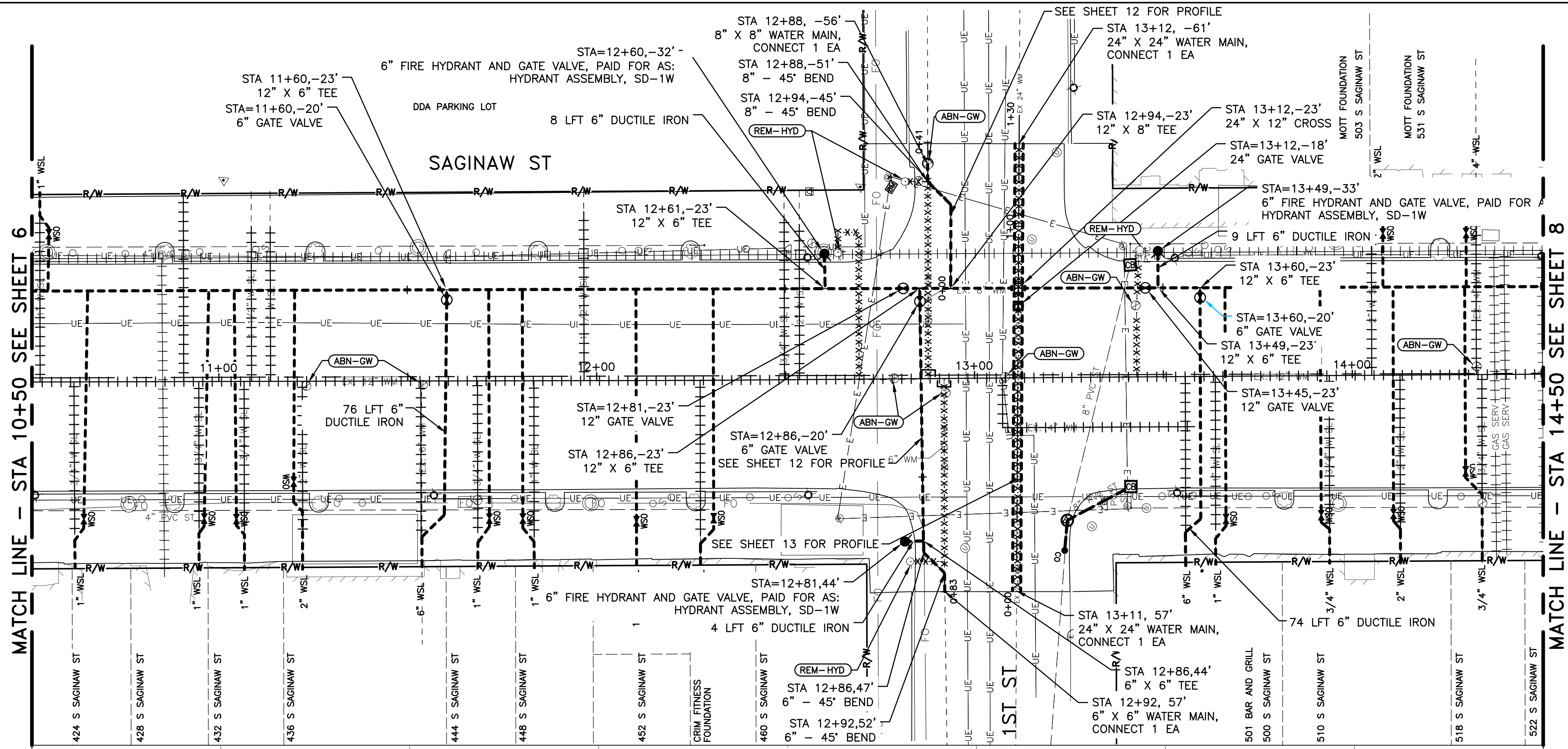
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 IFB 1-25-23 KEC

JOB NO.: COF1069.01F

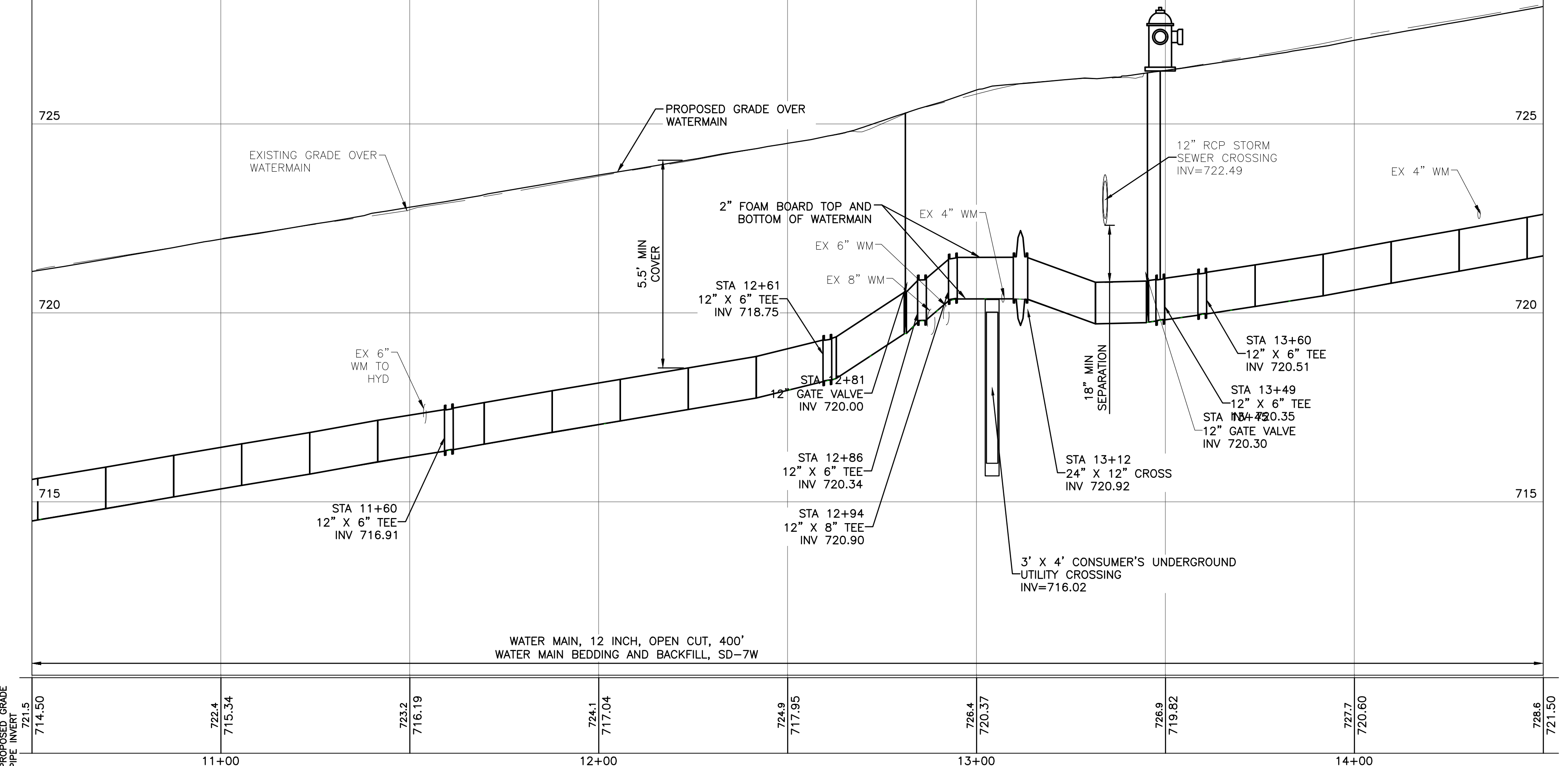
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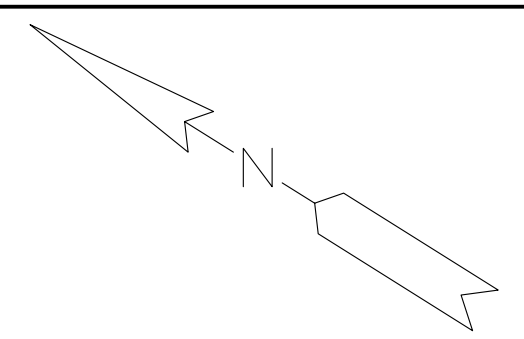
WATER MAIN PLAN



WATER MAIN PROFILE

QUANTITIES THIS SHEET		
DESCRIPTION	UNIT	QUANTITY
HYDRANT ASSEMBLY, SD-1W	EA	3
GATE VALVE AND BOX, 6 INCH	EA	3
GATE VALVE, 8 INCH	EA	1
GATE VALVE, 12 INCH	EA	2
GATE VALVE, 24 INCH	EA	1
GATE WELL, ABANDON	EA	8
HYDRANT, REM	EA	4
WATER MAIN, 6 INCH, CUT AND PLUG	EA	1
WATER MAIN, 8 INCH, CUT AND PLUG	EA	1
WATER SERV	EA	3
WATER SERV, LONG	EA	12
GATE WELL, 48 INCH DIA	EA	1
GATE WELL, 60 INCH DIA	EA	2
GATE WELL, 72 INCH DIA	EA	1
GATE WELL, COVER	EA	4
WATER MAIN, 24 INCH, OPEN CUT	FT	118
WATER MAIN, 12 INCH, OPEN CUT	FT	400
WATER MAIN, 8 INCH, OPEN CUT	FT	35
WATER MAIN, 6 INCH, DIP, OPEN CUT	FT	171
WATER MAIN BEDDING AND BACKFILL, SD-7W	FT	724
WATER MAIN, 24 INCH, REM	FT	119
WATER MAIN, 6 INCH, REM	FT	134
WATER MAIN, 8 INCH, REM	FT	56
WATER MAIN CONNECT, NEW 24 INCH TO EXISTING 24 INCH	EA	2
WATER MAIN CONNECT, NEW 8 INCH TO EXISTING 8 INCH	EA	1
WATER MAIN CONNECT, NEW 6 INCH TO EXISTING 6 INCH	EA	1
WATER MAIN, ABANDON, FLOWABLE FILL	CYD	13

WATER SERVICE LINES THIS SHEET		
10+55	1"	26'
10+65	1"	74'
10+97	1"	74'
11+04	1"	74'
11+26	2"	74'
11+49	1"	74'
11+72	1"	74'
11+80	1"	74'
12+11	1 1/2"	74'
12+24	2"	74'
13+66	1"	74'
13+92	3/4"	73'
14+08	2"	28'
14+11	2"	72'
14+29	3/4"	74'
14+30	4"	27'



PROJECT MANAGER: Kevin E. Cook, PE  
 FIELD BOOK INFORMATION: WM 3 - PLOTTED 1/25/2023 10:04 PM BY COOK, KEVIN  
 CA:\PW\WORK\COOK\DT139411\CUP-PLI-WATERMAIN.DWG

BY
DATE
REV#

DESCRIPTION

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Flint, MI 48502  
www.wadetrtrim.com

**CITY OF FLINT**

**1101 SOUTH SAGINAW STREET**

**FLINT, MI 48502**

SAGINAW STREET WATER MAIN REPLACEMENT PROJECT

WM PLAN AND PROFILE SHEET

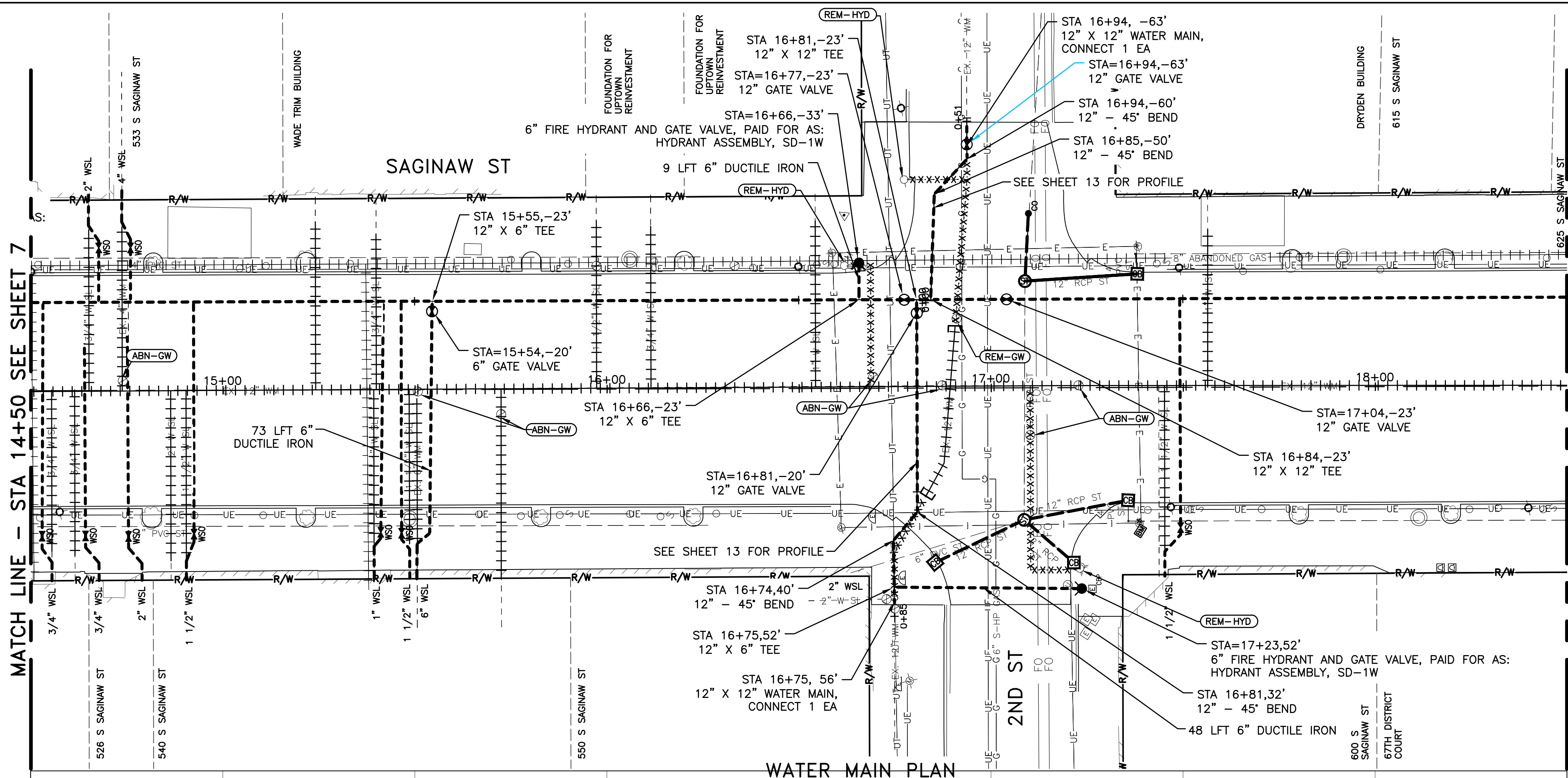
STA 10+50 TO STA 14+50

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IFB: 1-25-23 KEC

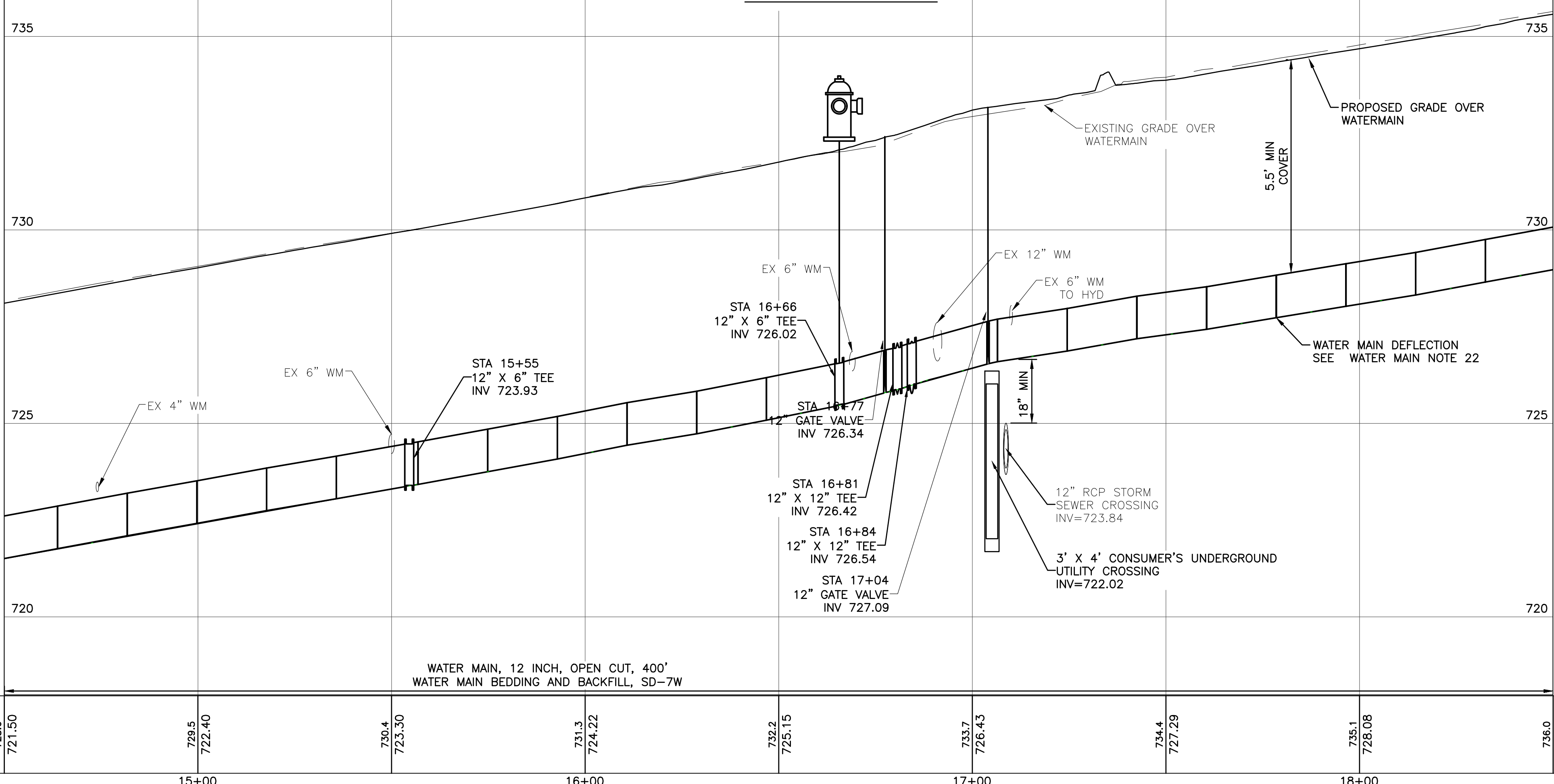
JOB NO. COF1069.01F
SHEET 7



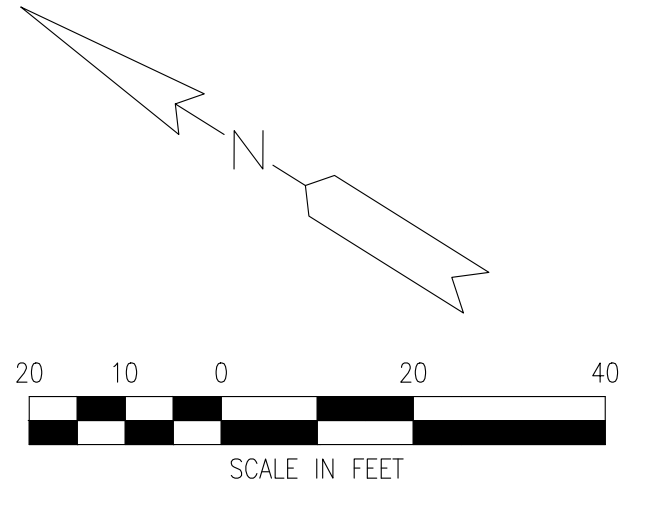
PROJECT MANAGER: Kevin E. Cook, PE  
 FIELD BOOK INFORMATION: WM 4 - PLOTTED 1/25/2023 1:00:4 PM BY COOK, KEVIN  
 C:\PW\WORK\COOK\01\39411\CUP-PLT-WATERMAIN.DWG - WM 4 - PLOTTED 1/25/2023 1:00:4 PM BY COOK, KEVIN



WATER MAIN PLAN



WATER MAIN PROFILE



QUANTITIES THIS SHEET		
DESCRIPTION	UNIT	QUANTITY
HYDRANT ASSEMBLY, SD-1W	EA	2
GATE VALVE AND BOX, 6 INCH	EA	1
GATE VALVE, 12 INCH	EA	4
GATE WELL, ABANDON	EA	8
HYDRANT, REM	EA	3
WATER MAIN, 12 INCH, CUT AND PLUG	EA	2
WATER SERV	EA	2
WATER SERV, LONG	EA	7
GATE WELL, 60 INCH DIA	EA	4
GATE WELL, COVER	EA	4
WATER MAIN, 12 INCH, OPEN CUT	FT	530
WATER MAIN, 6 INCH, DIP, OPEN CUT	FT	130
WATER MAIN BEDDING AND BACKFILL, SD-7W	FT	660
WATER MAIN, 12 INCH, REM	FT	74
WATER MAIN, 6 INCH, REM	FT	114
WATER MAIN CONNECT, NEW 12 INCH TO EXISTING 12 INCH	EA	2
WATER MAIN, ABANDON, FLOWABLE FILL	CYD	15

WATER SERVICE LINES THIS SHEET		
STATION	SIZE	LENGTH
14+53	3/4"	73'
14+64	3/4"	73'
14+68	2"	29'
14+76	4"	29'
14+75	2"	74'
14+92	1 1/2"	72'
15+42	1"	72'
15+46	1 1/2"	72'
17+42	1 1/2"	73'



555 S. Saginaw Street, Suite 201  
 Flint, MI 48502  
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**WADE TRIM**

CITY OF FLINT  
 1101 SOUTH SAGINAW STREET  
 FLINT, MI 48502

SAGINAW STREET WATER MAIN REPLACEMENT PROJECT  
 WM PLAN AND PROFILE SHEET  
 STA 10+50 TO STA 18+50

REV#	DATE	DESCRIPTION	BY

ISSUED FOR: DATE: BY:  
 OWNER REVIEW: 9-14-22 KEC  
 IFB 1-25-23 KEC

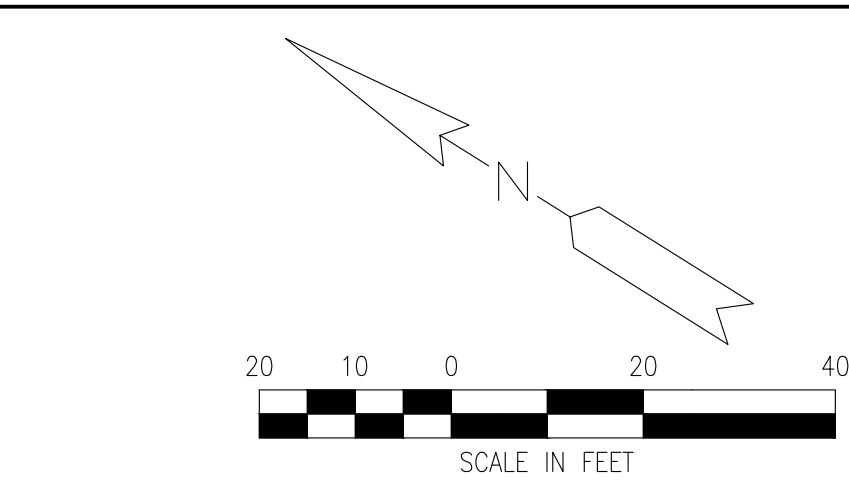
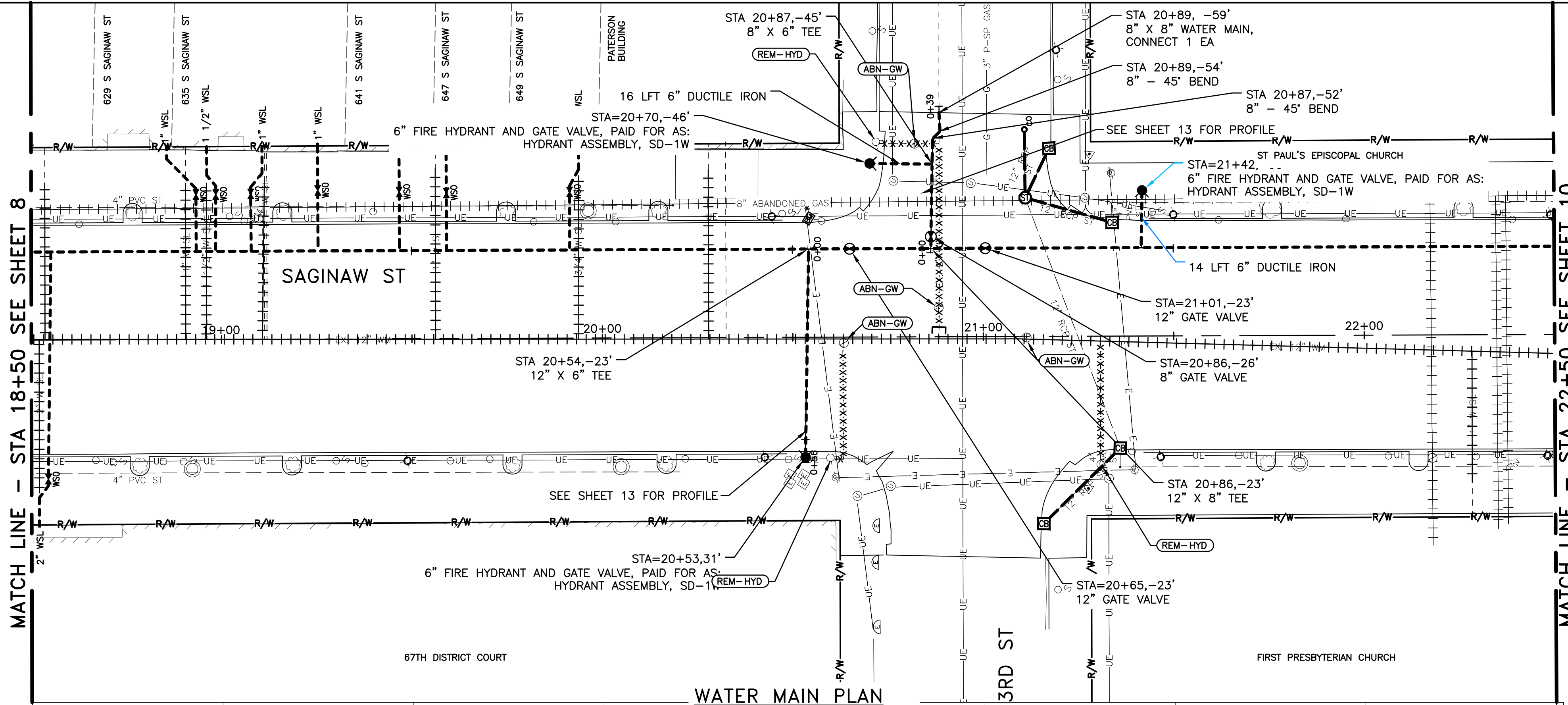
JOB NO.: COF1069.01F

SHEET: 8

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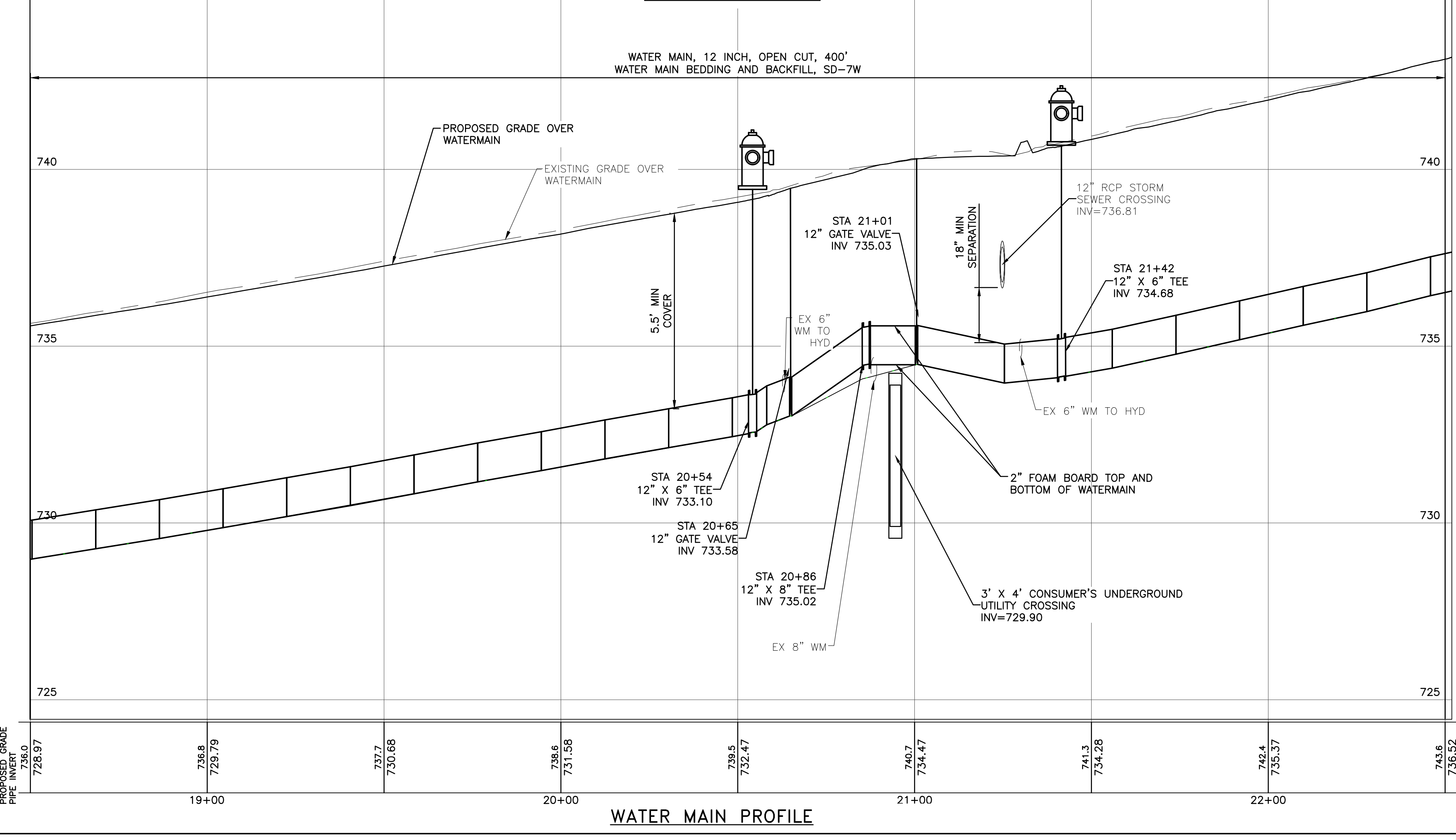


PROJECT MANAGER: Kevin E. Cook, PE  
 CA PW WORK\KCOOK\DT139411\CUP-PL1-WATERMAIN.DWG - WM 5 - PLOTTED 1/25/2023 10:04 PM BY COOK, KEVIN  
 FIELD BOOK INFORMATION:-  
 736.0  
 728.97  
 736.8  
 729.79  
 737.7  
 730.68  
 739.6  
 731.58  
 739.5  
 732.47  
 740.7  
 734.47  
 741.3  
 734.28  
 742.4  
 735.37  
 743.6  
 736.52



**QUANTITIES THIS SHEET**

DESCRIPTION	UNIT	QUANTITY
HYDRANT ASSEMBLY, SD-1W	EA	3
GATE VALVE, 8 INCH	EA	1
GATE VALVE, 12 INCH	EA	2
GATE WELL, ABANDON	EA	4
HYDRANT, REM	EA	3
WATER MAIN, 8 INCH, CUT AND PLUG	EA	1
WATER SERV	EA	7
WATER SERV, LONG	EA	1
GATE WELL, 48 INCH DIA	EA	1
GATE WELL, 60 INCH DIA	EA	2
GATE WELL, COVER	EA	3
WATER MAIN, 12 INCH, OPEN CUT	FT	400
WATER MAIN, 8 INCH, OPEN CUT	FT	37
WATER MAIN, 6 INCH, DIP, OPEN CUT	FT	85
WATER MAIN BEDDING AND BACKFILL, SD-7W	FT	522
WATER MAIN, 6 INCH, REM	FT	78
WATER MAIN CONNECT, NEW 8 INCH TO EXISTING 8 INCH	EA	1
WATER MAIN, ABANDON, FLOWABLE FILL	CYD	15



**WATER SERVICE LINES THIS SHEET**

STATION	DIAMETER	LENGTH
18+55	2"	72'
18+94	1"	28'
18+98	1 1/2"	28'
19+10	1"	29'
19+15	1"	28'
19+47	1"	28'
19+59	1"	28'
19+92	3/4"	28'

REV#	DATE	DESCRIPTION	BY

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 Flint, MI 48502  
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**CITY OF FLINT**  
**1101 SOUTH SAGINAW STREET**  
**FLINT, MI 48502**  
 SAGINAW STREET WATER MAIN REPLACEMENT PROJECT  
 WM PLAN AND PROFILE SHEET  
 STA 18+50 TO STA 22+50

ISSUED FOR: DATE: BY:  
 OWNER REVIEW 9-14-22 KEC  
 IFB 1-25-23 KEC

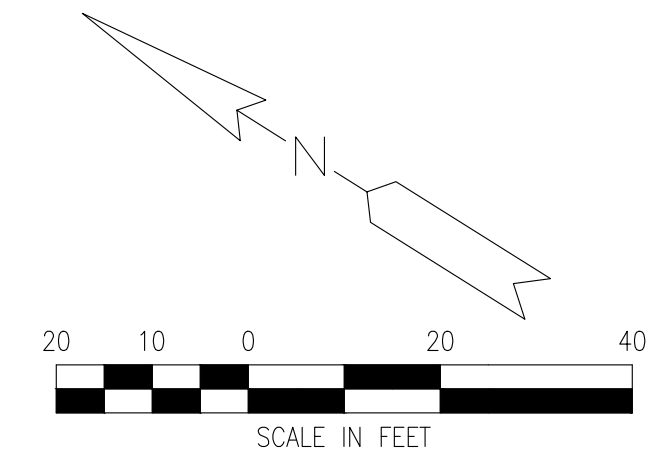
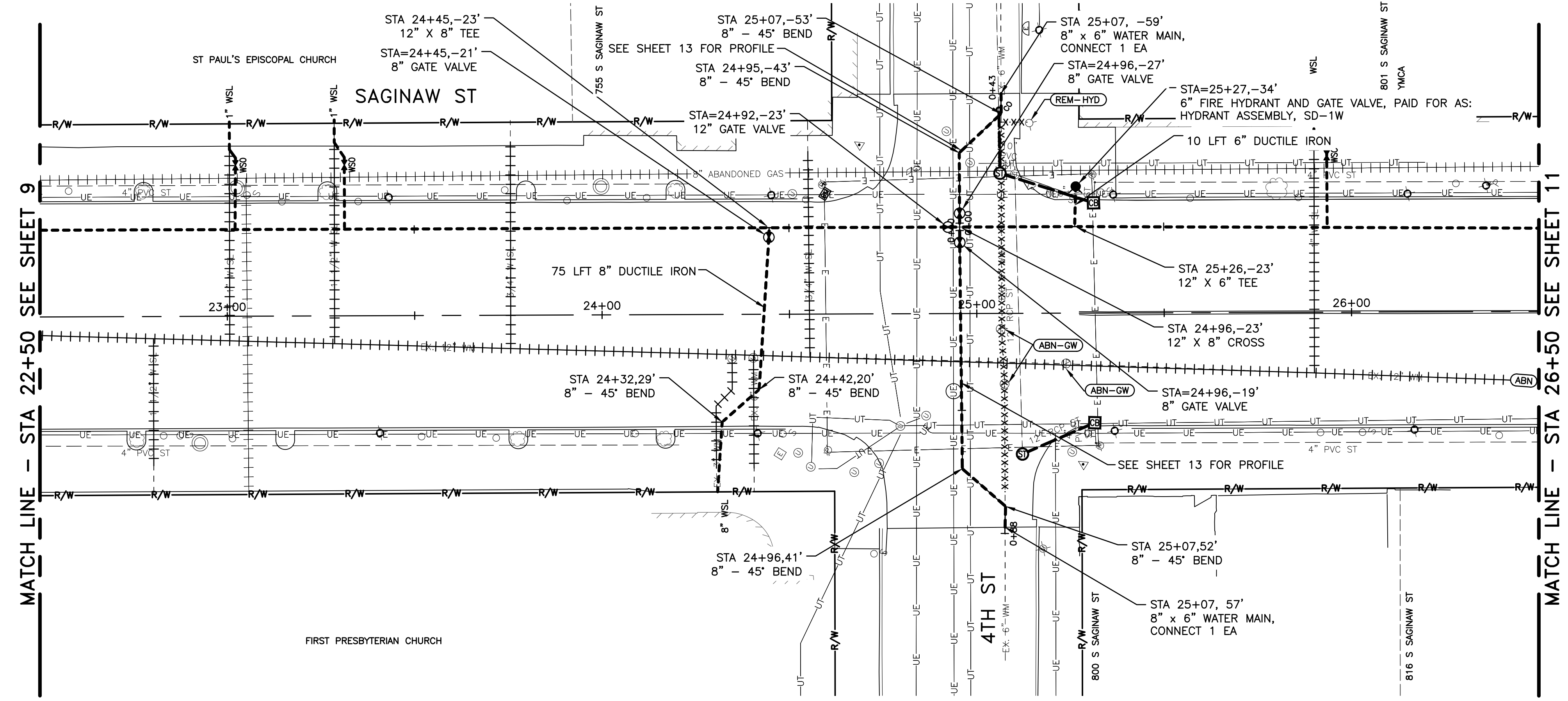
JOB NO.  
**COF1069.01F**

SHEET  
**9**

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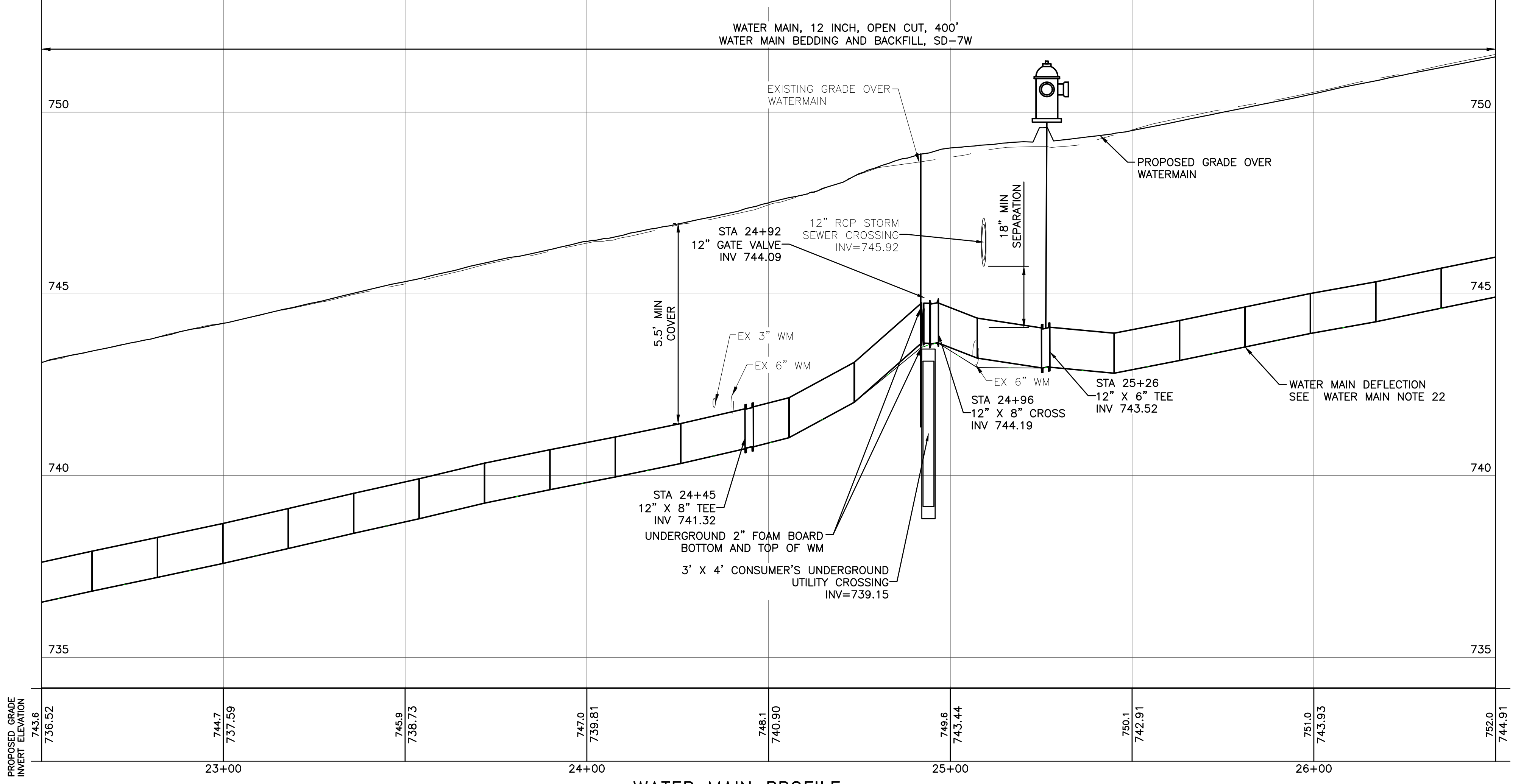


PROJECT MANAGER: Kevin E. Cook, PE  
 FIELD BOOK INFORMATION: CA:\PW\WORK\YCOOK\01139411\CUP-PLI-WATERMAIN.DWG - WM 6 - PLOTTED 1/25/2023 10:05 PM BY COOK, KEVIN



QUANTITIES THIS SHEET		
DESCRIPTION	UNIT	QUANTITY
HYDRANT ASSEMBLY, SD-1W	EA	1
GATE VALVE, 8 INCH	EA	2
GATE VALVE, 12 INCH	EA	1
GATE WELL, ABANDON	EA	3
HYDRANT, REM	EA	1
WATER SERV	EA	3
GATE WELL, 48 INCH DIA	EA	2
GATE WELL, 60 INCH DIA	EA	1
GATE WELL, COVER	EA	3
WATER MAIN, 12 INCH, OPEN CUT	FT	400
WATER MAIN, 8 INCH, OPEN CUT	FT	196
WATER MAIN, 6 INCH, DIP, OPEN CUT	FT	10
WATER MAIN BEDDING AND BACKFILL, SD-7W	FT	606
WATER MAIN, 6 INCH, REM	FT	8
WATER MAIN, 8 INCH, REM	FT	98
WATER MAIN CONNECT, NEW 8 INCH TO EXISTING 6 INCH	EA	2
WATER MAIN, ABANDON, FLOWABLE FILL	CYD	15

WATER MAIN PLAN



WATER SERVICE LINES THIS SHEET		
STATION	SIZE	LENGTH
23+02	1"	27'
23+31	1 1/2"	29'
25+94	1 1/2"	30'

WATER MAIN PROFILE

REV#	DATE	DESCRIPTION	BY

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CITY OF FLINT  
 1101 SOUTH SAGINAW STREET  
 FLINT, MI 48502  
 SAGINAW STREET WATER MAIN REPLACEMENT PROJECT  
 WM PLAN AND PROFILE SHEET  
 STA 22+50 TO STA 26+50

ISSUED FOR: DATE: BY:  
 OWNER REVIEW 9-14-22 KEC  
 IFB 1-25-23 KEC

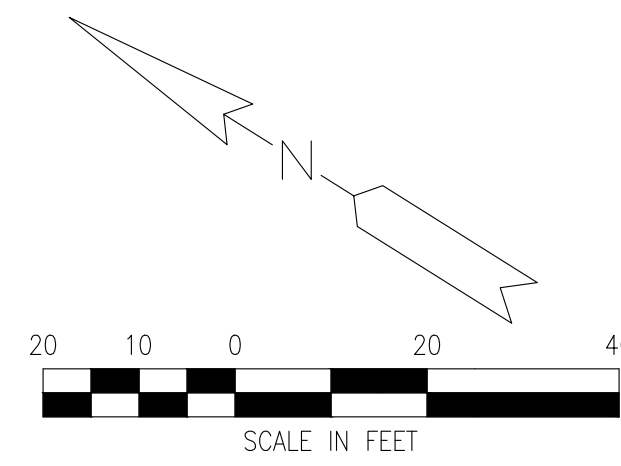
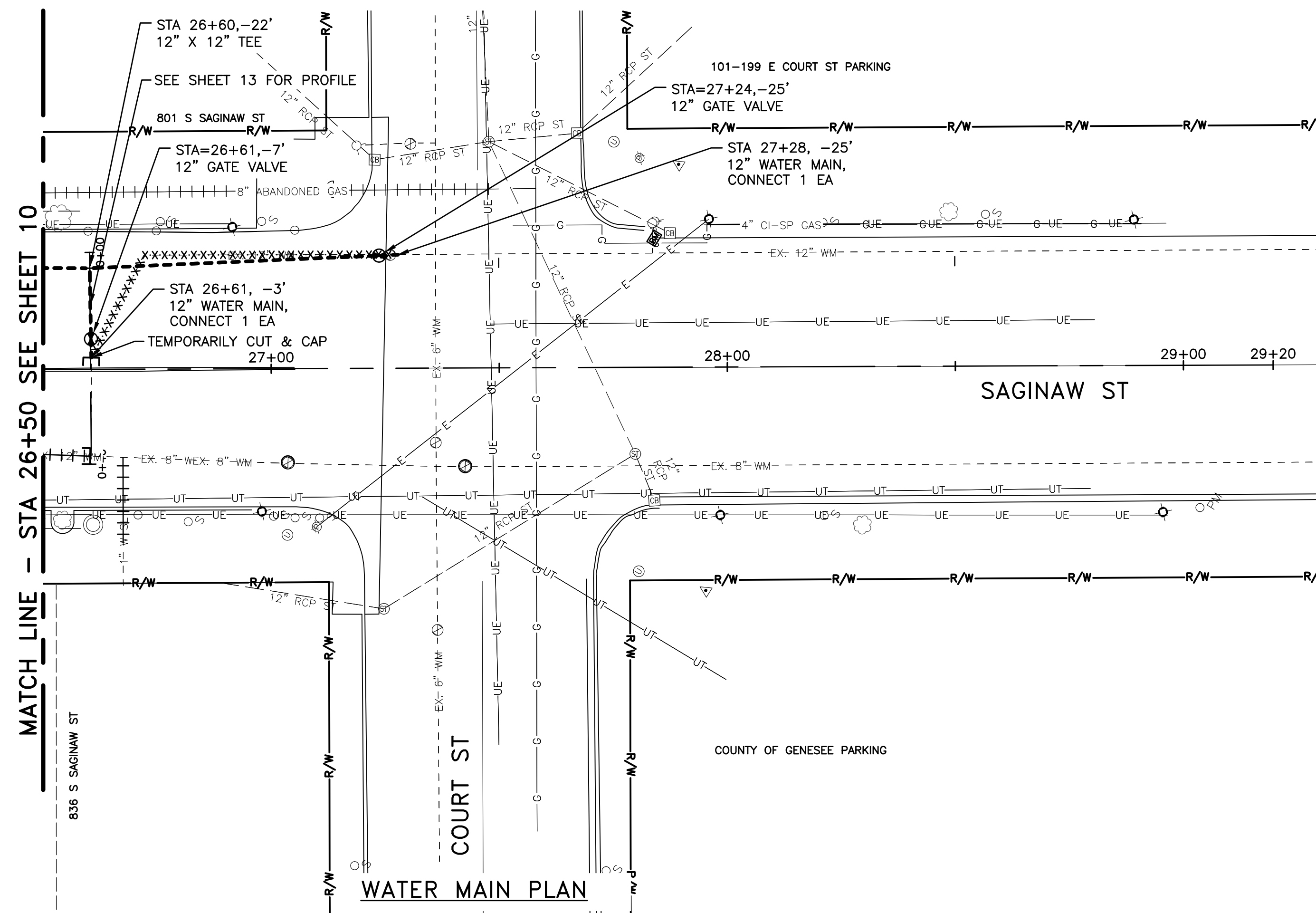
JOB NO.  
 COF1069.01F

SHEET  
 10

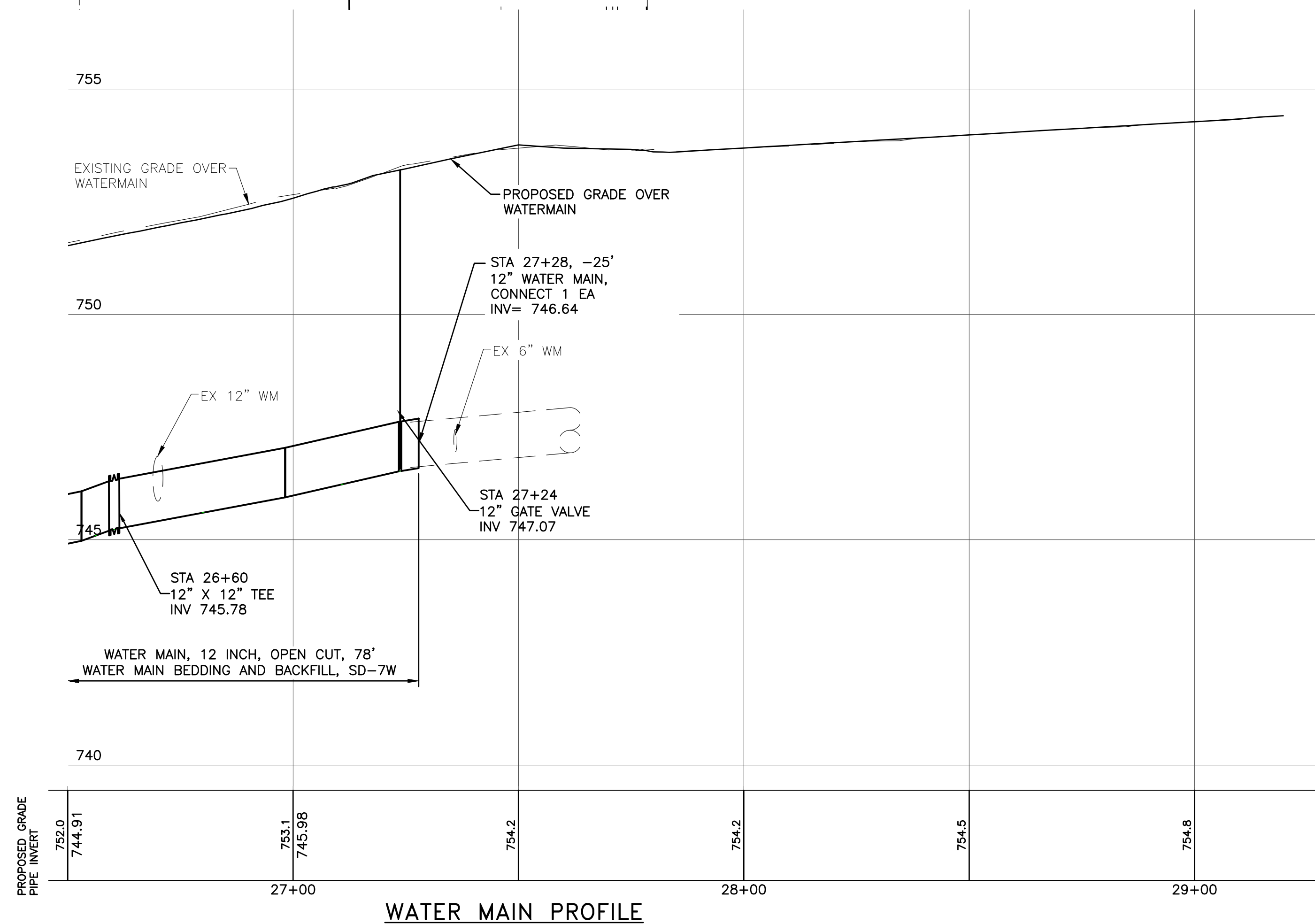
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PROJECT MANAGER: Kevin E. Cook, PE  
 FIELD BOOK INFORMATION: WM 7 - PLOTTED 1/25/2023 10:05 PM BY COOK, KEVIN  
 C:\P\WORK\COOK\01139411\CUP-PLT-WATERMAIN.DWG



QUANTITIES THIS SHEET		
DESCRIPTION	UNIT	QUANTITY
GATE VALVE, 12 INCH	EA	2
WATER MAIN, 12 INCH, CUT AND PLUG	EA	1
WATER SERV, LONG	EA	1
GATE WELL, 60 INCH DIA	EA	2
GATE WELL, COVER	EA	2
WATER MAIN, 12 INCH, OPEN CUT	FT	98
WATER MAIN BEDDING AND BACKFILL, SD-7W	FT	98
WATER MAIN, 12 INCH, REM	FT	80
WATER MAIN CONNECT, NEW 12 INCH TO EXISTING 12 INCH	EA	2
WATER MAIN, ABANDON, FLOWABLE FILL	CYD	1



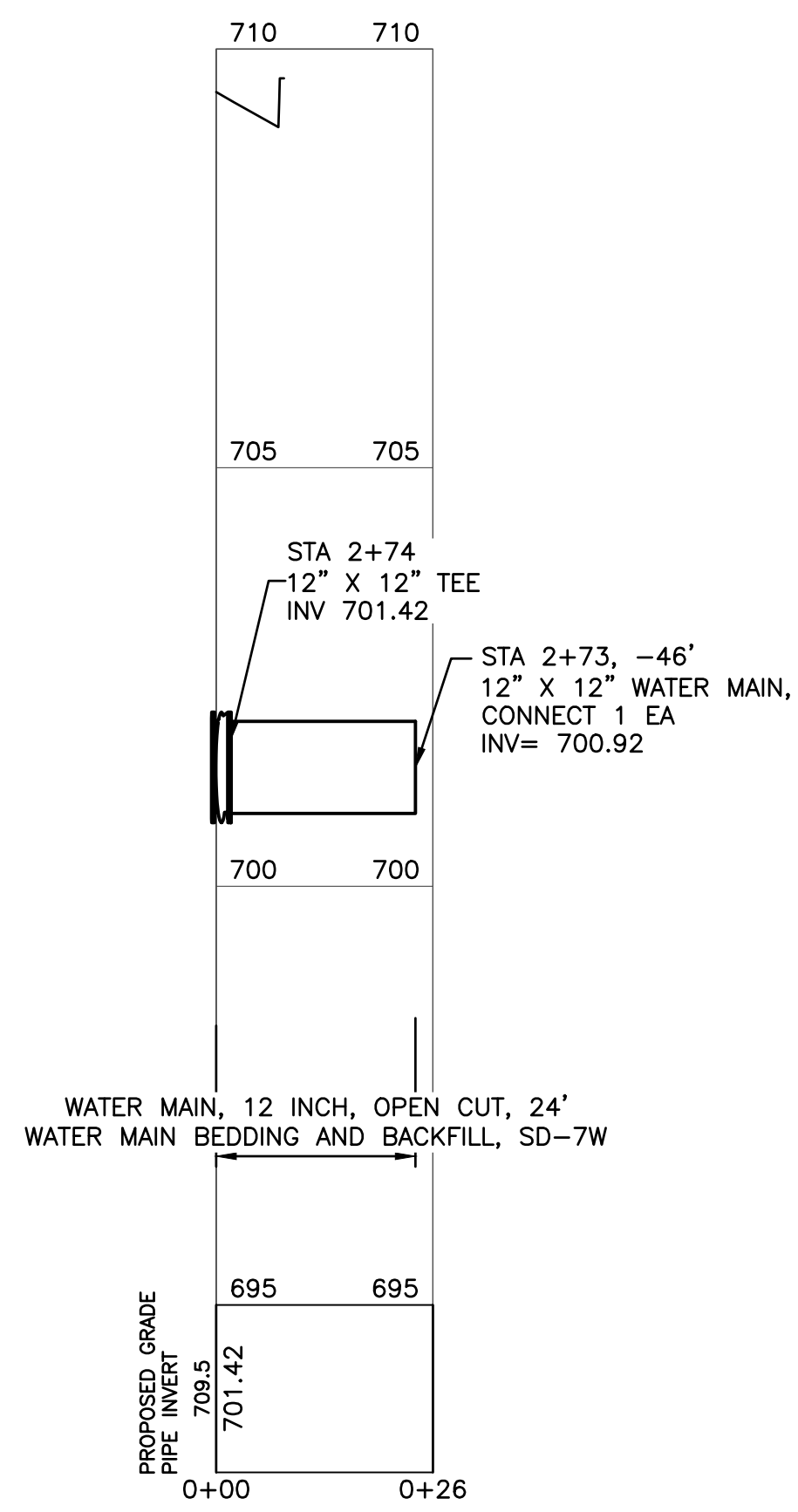
REV#	DATE	DESCRIPTION	BY

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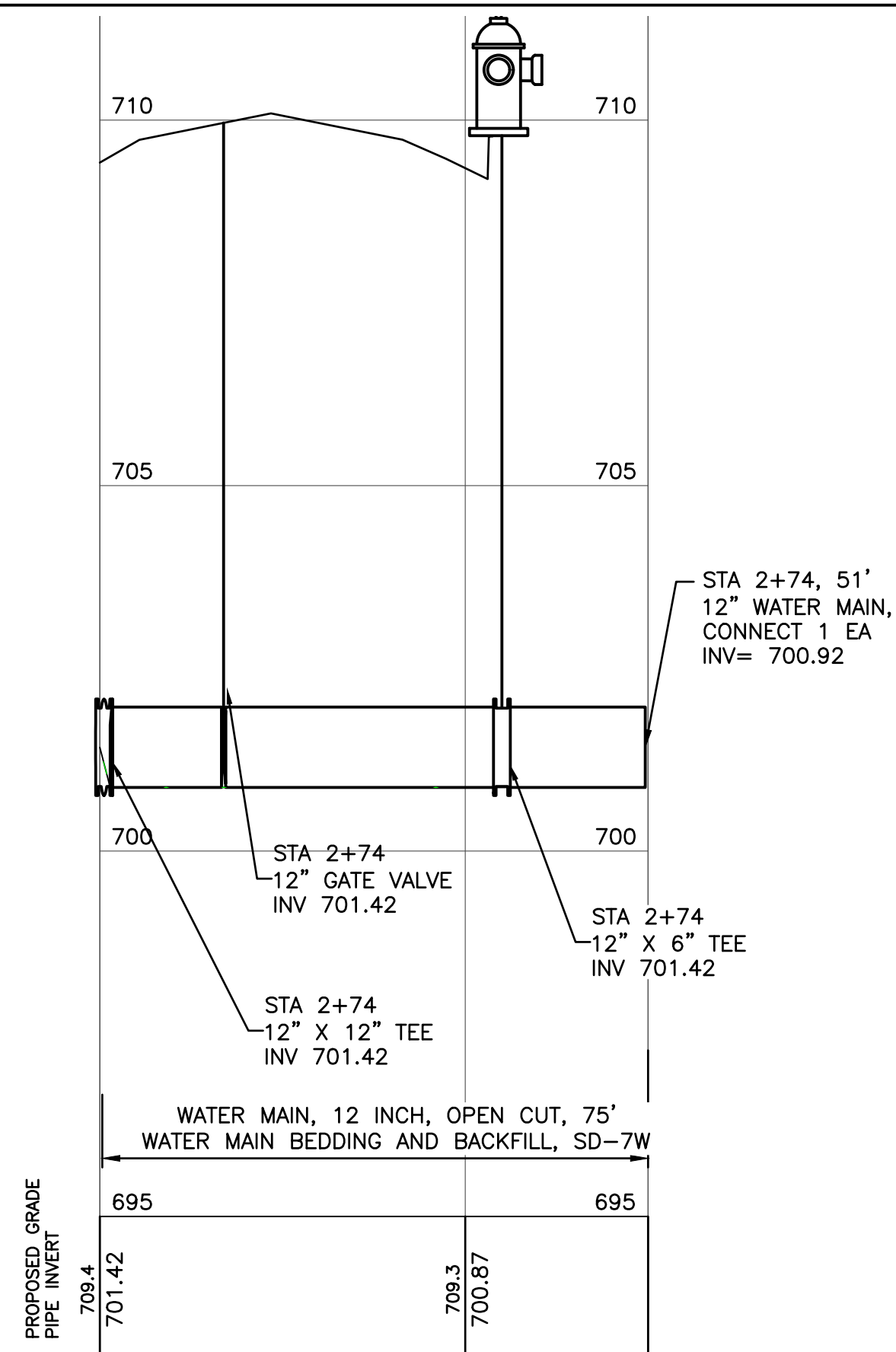
**CITY OF FLINT**  
**1101 SOUTH SAGINAW STREET**  
**FLINT, MI 48502**  
 SAGINAW STREET WATER MAIN REPLACEMENT PROJECT  
 WM PLAN AND PROFILE SHEET  
 STA 26+50 TO STA 29+20 (POE)

ISSUED FOR: OWNER REVIEW 9-14-22 IFB	DATE: 1-25-23	BY: KEC
JOB NO.: COF1069.01F	SHEET: 11	

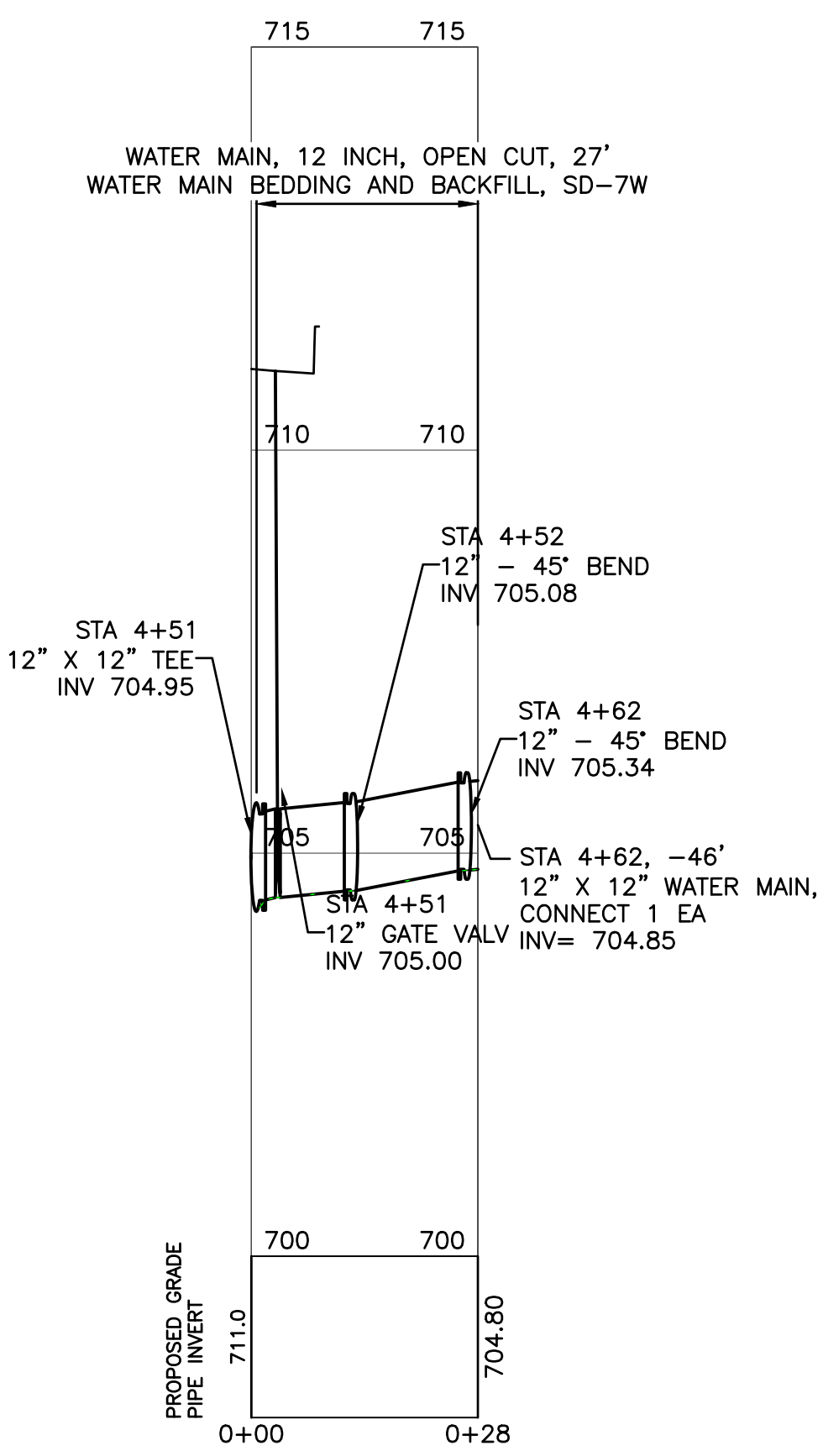
PROJECT MANAGER: Kevin E. Cook, PE  
 FIELD BOOK INFORMATION: -  
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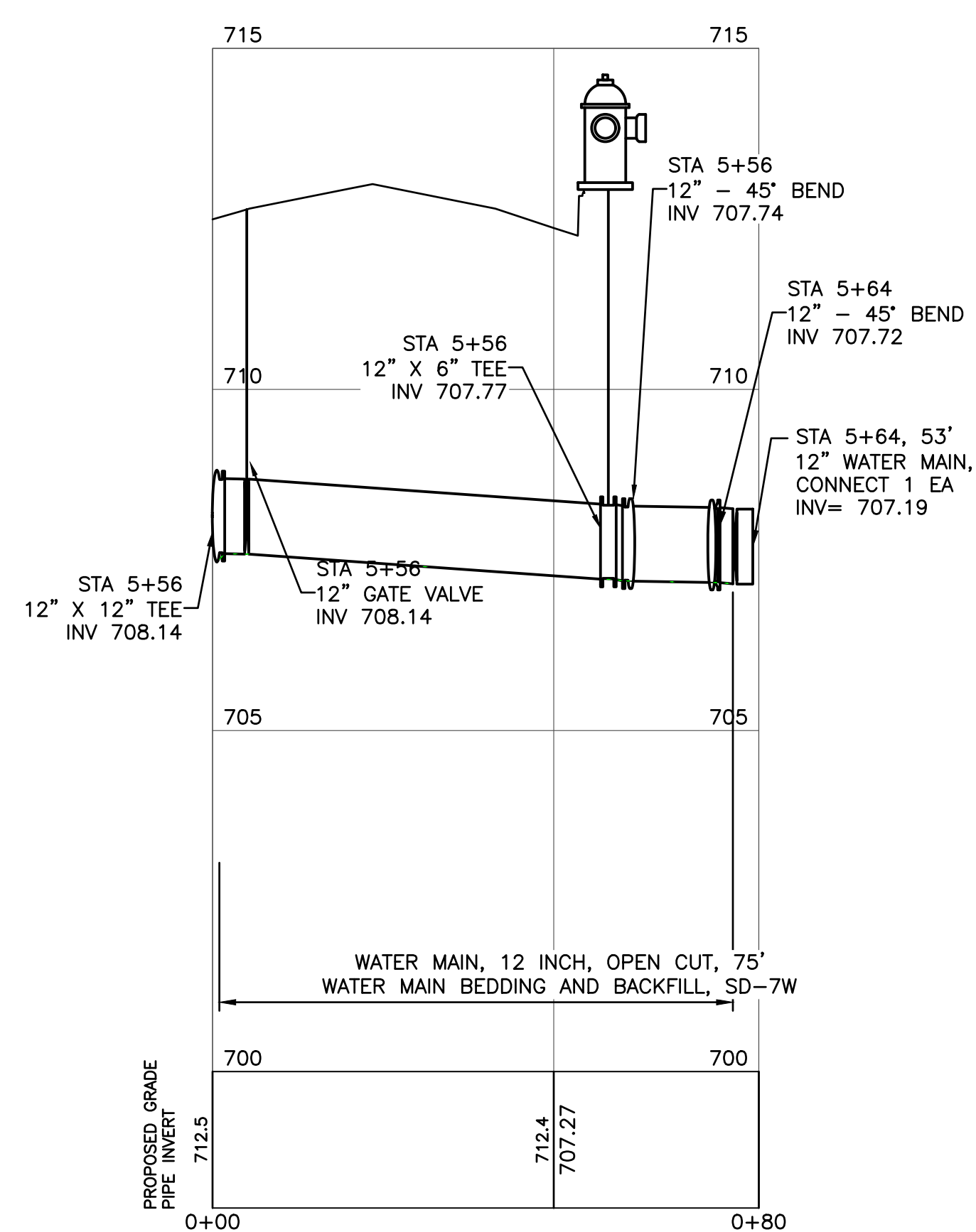
**E FLINT RIVER TRAIL - STA 2+73**  
**12" WATER MAIN**  
 SEE SHEET 5



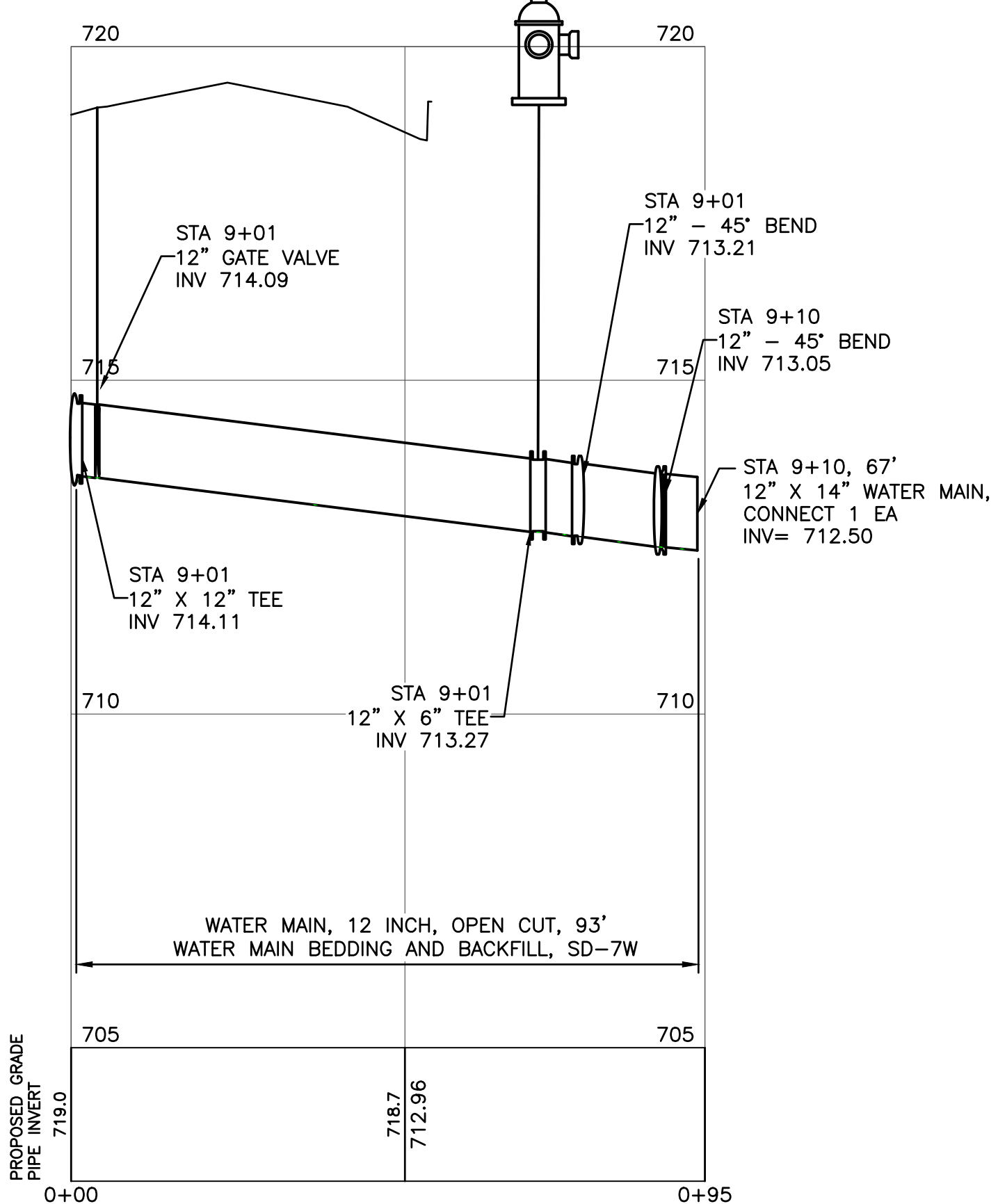
**E FLINT RIVER TRAIL - STA 2+73**  
**12" WATER MAIN**  
 SEE SHEET 5



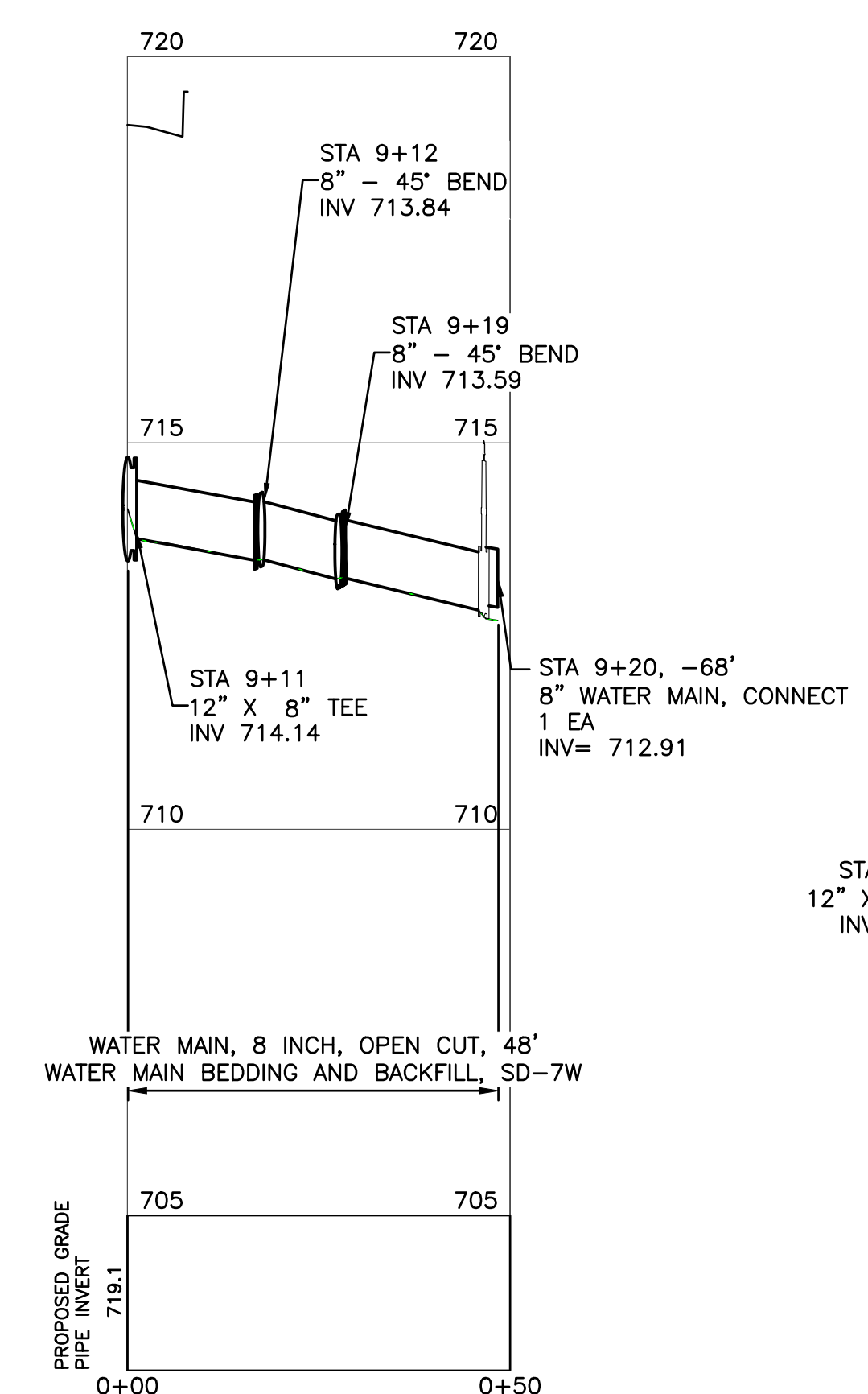
**E UNION ST - STA 4+51**  
**12" WATER MAIN**  
 SEE SHEET 5



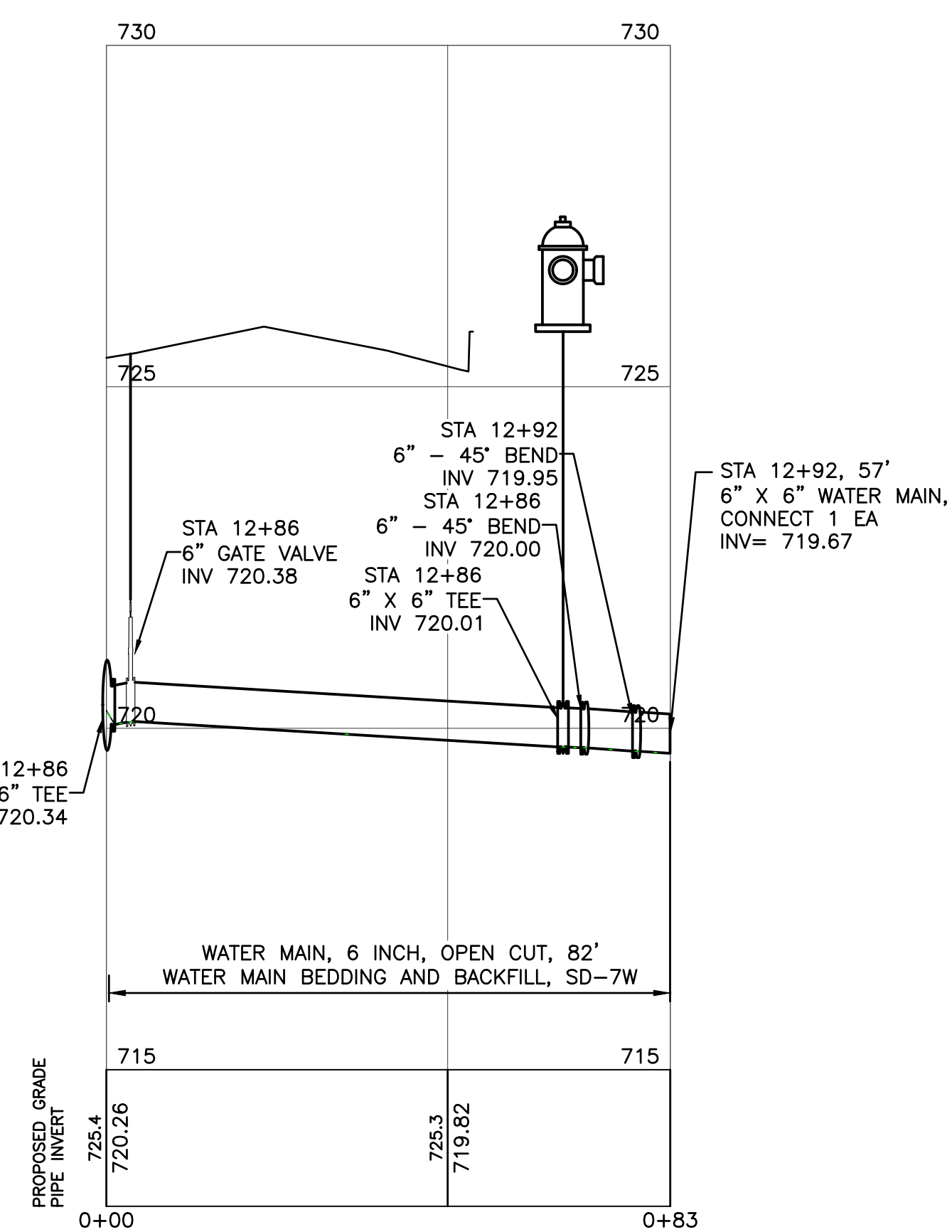
**W UNION ST - STA 5+56**  
**12" WATER MAIN**  
 SEE SHEET 5



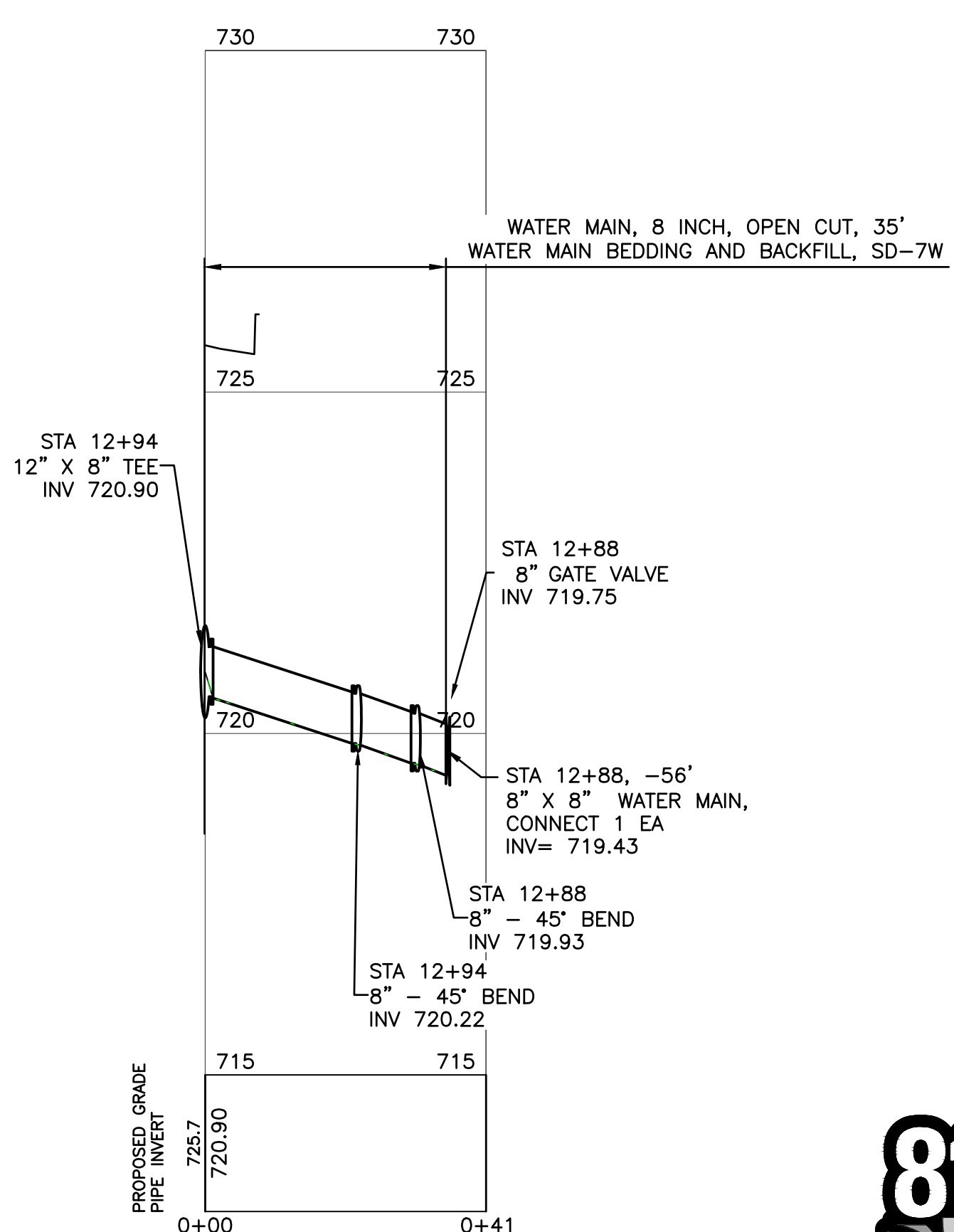
**W KEARSLEY ST - STA 9+00**  
**12" WATER MAIN**  
 SEE SHEET 6



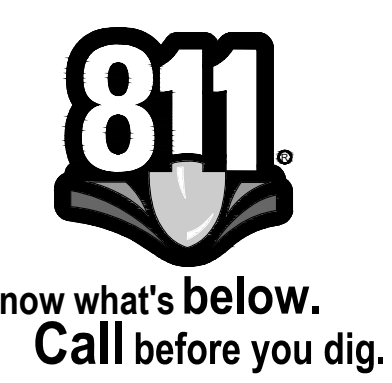
**E KEARSLEY ST - STA 9+13**  
**8" WATER MAIN**  
 SEE SHEET 6



**W FIRST ST - STA 12+85**  
**6" WATER MAIN**  
 SEE SHEET 7



**E FIRST ST - STA 12+94**  
**8" WATER MAIN**  
 SEE SHEET 7



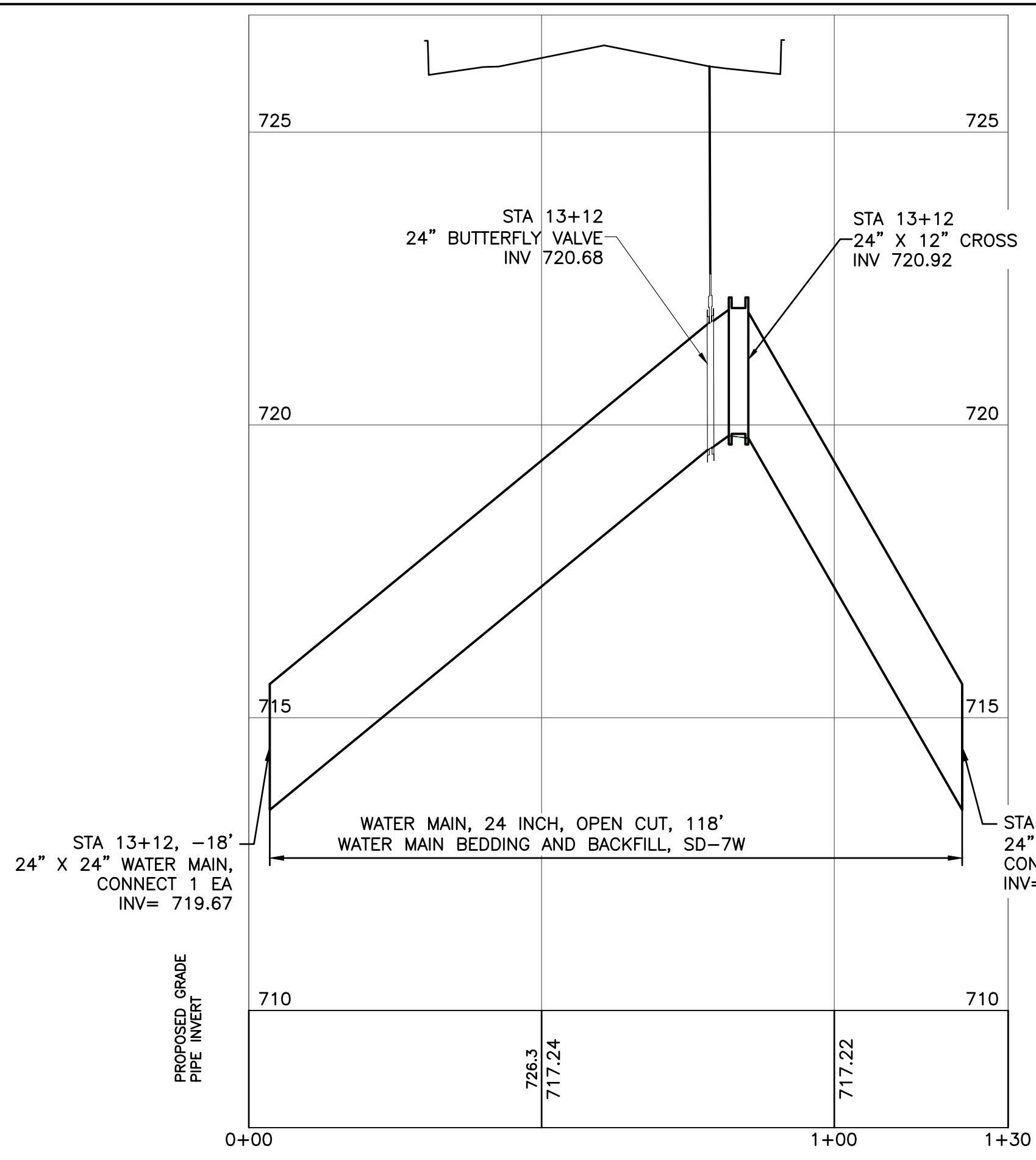
REV#	DATE	DESCRIPTION	BY

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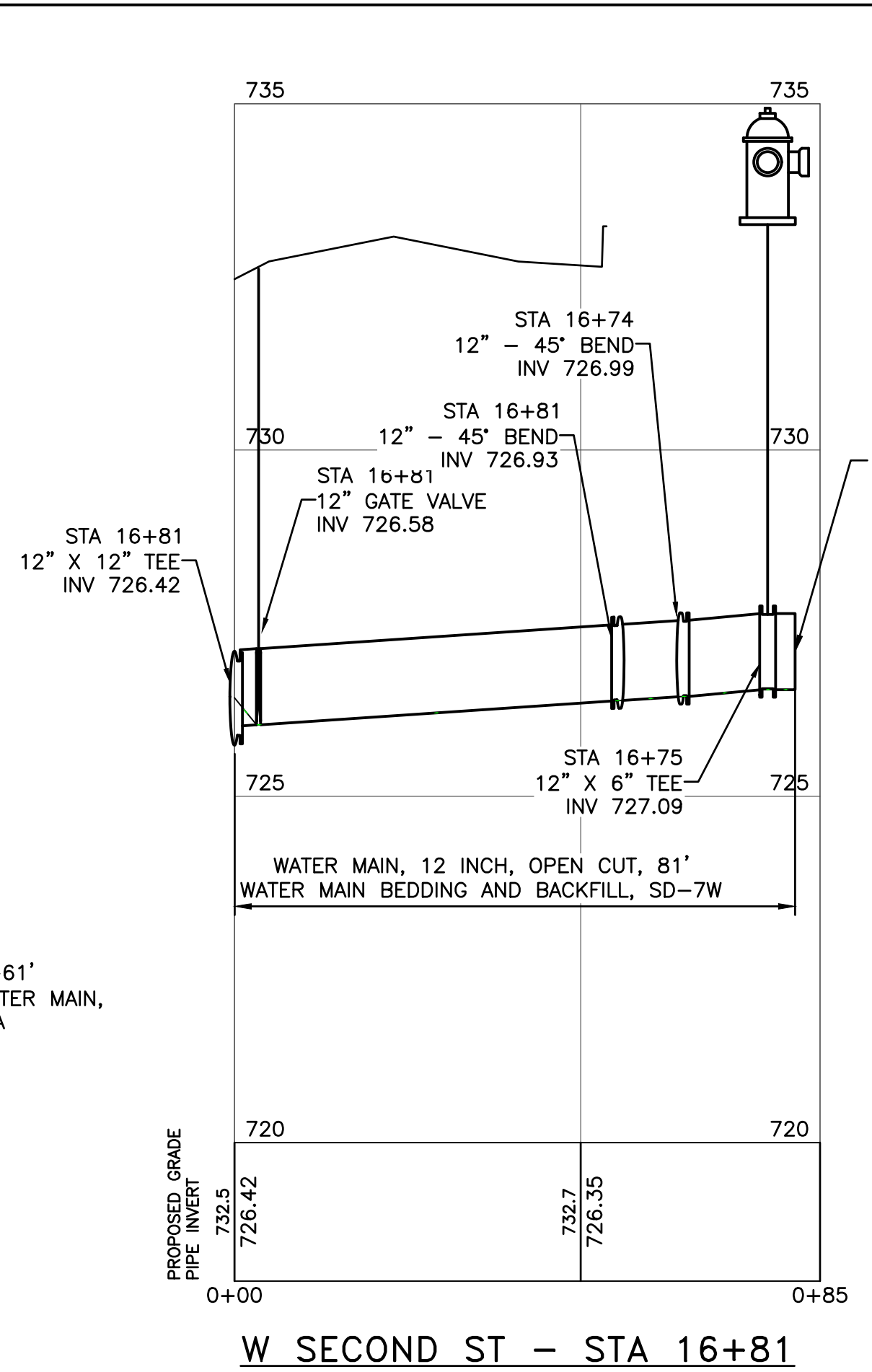
**CITY OF FLINT**  
**1101 SOUTH SAGINAW STREET**  
**FLINT, MI 48502**  
 SAGINAW STREET WATER MAIN REPLACEMENT PROJECT  
 WATERMAIN LATERAL PROFILES

ISSUED FOR: IFB	DATE: 1-25-23	BY: KECC
JOB NO.: COF1069.01F	SHEET 12	

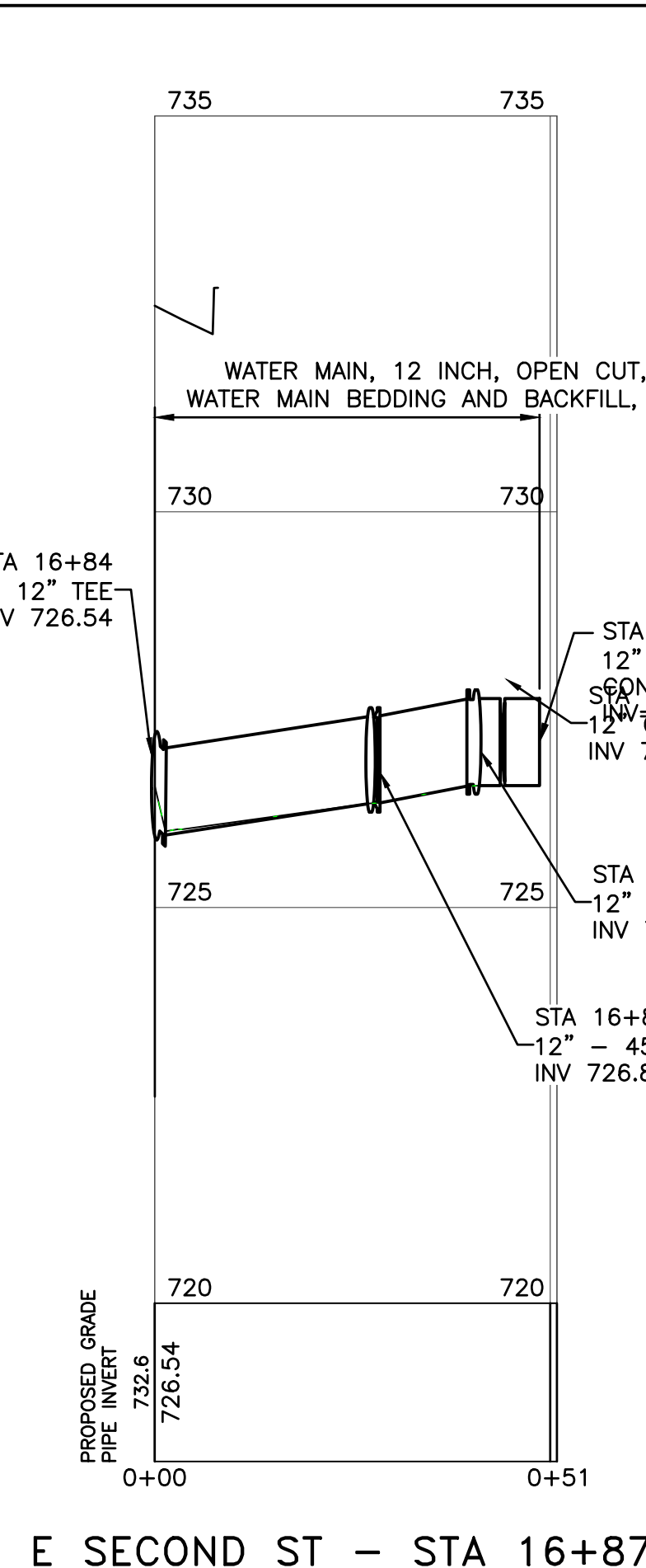
PROJECT MANAGER: Kevin E. Cook, PE  
 FIELD BOOK INFORMATION: WM 9 - PLOTTED 1/25/2023 10:05 PM BY COOK, KEVIN  
 C:\PW\WORK\YCOOK\01139411\CUP-PLI-WATERMAIN.DWG



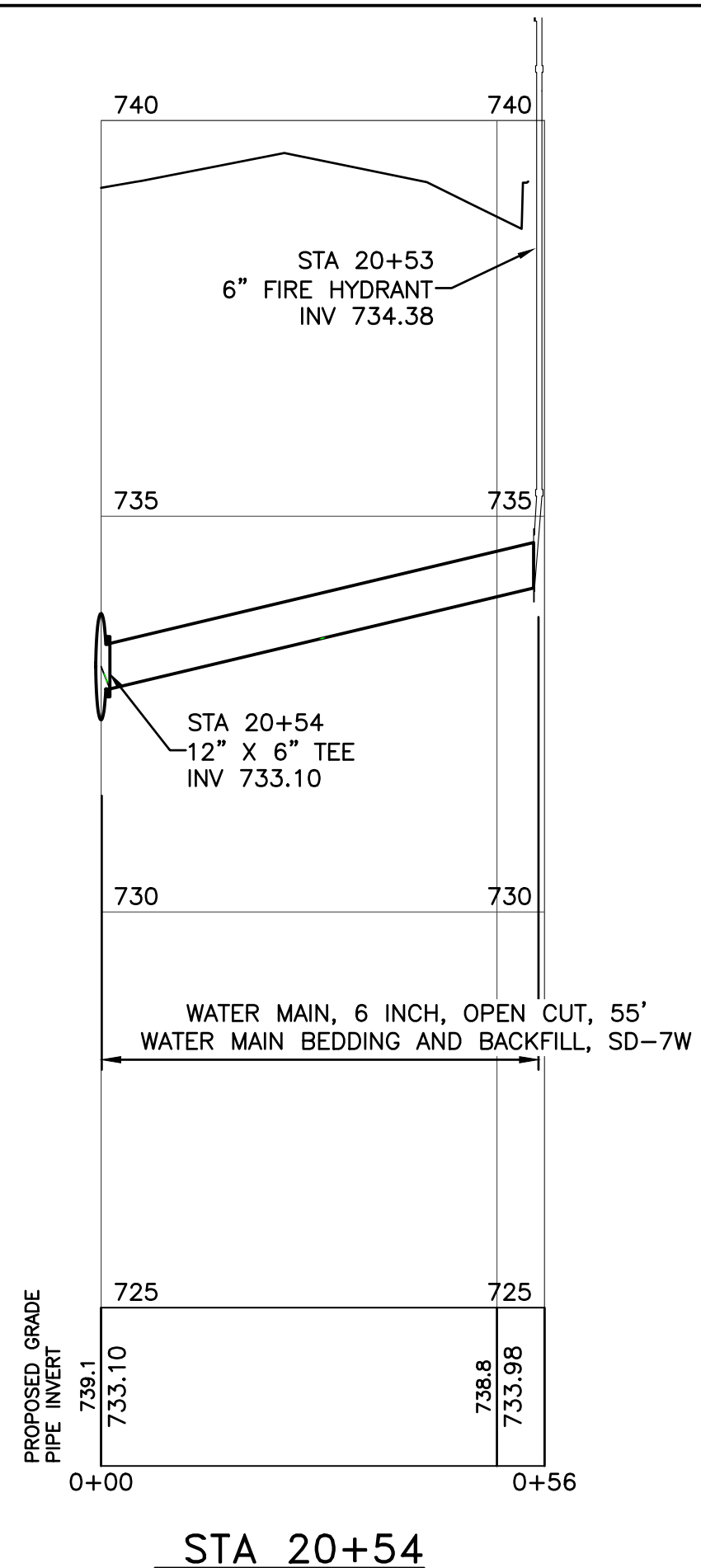
**FIRST ST - STA 13+11**  
**24" WATER MAIN**  
 SEE SHEET 7



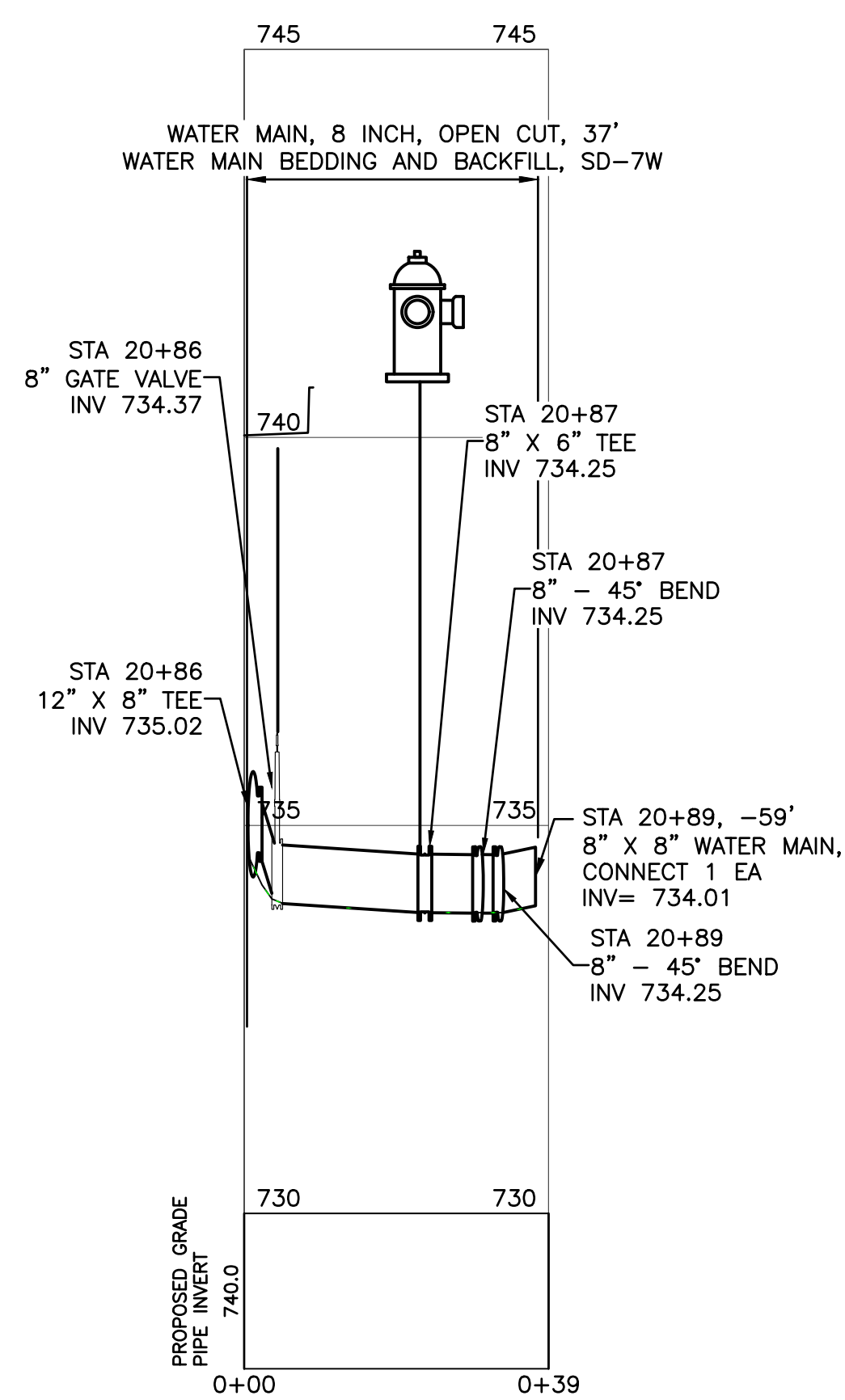
**W SECOND ST - STA 16+81**  
**12" WATER MAIN**  
 SEE SHEET 8



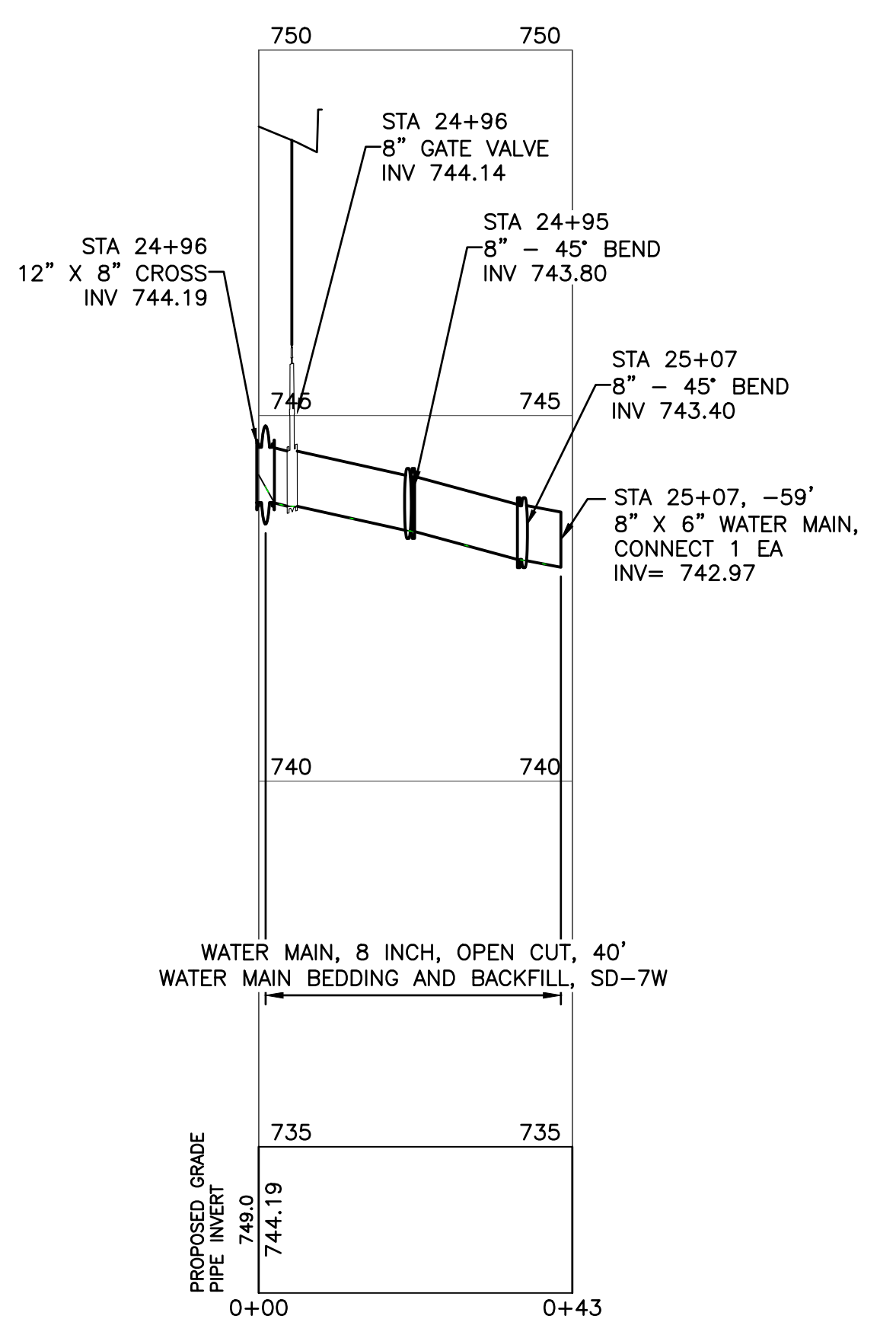
**E SECOND ST - STA 16+87**  
**12" WATER MAIN**  
 SEE SHEET 8



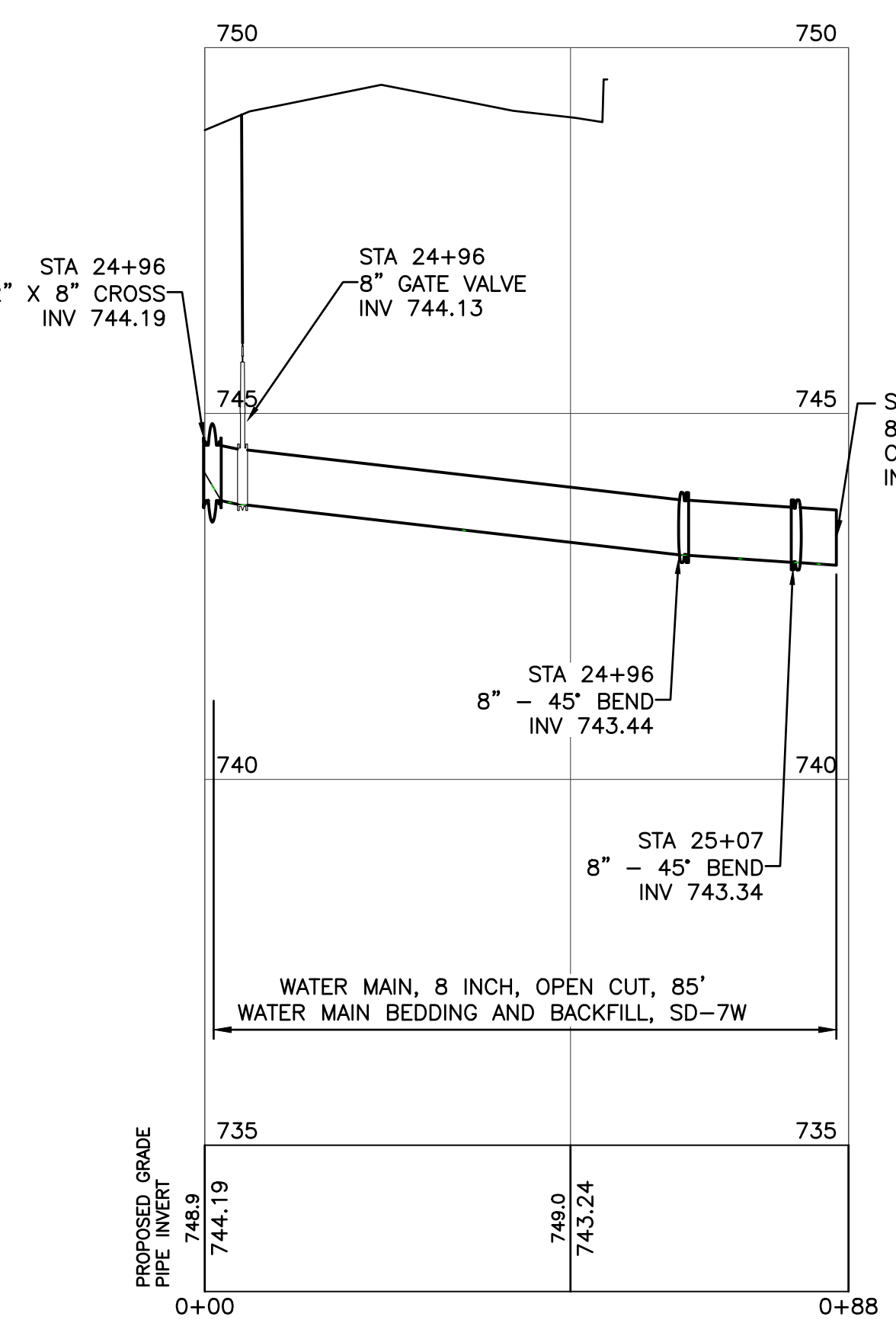
**STA 20+54**  
**6" HYDRANT LEAD**  
 SEE SHEET 9



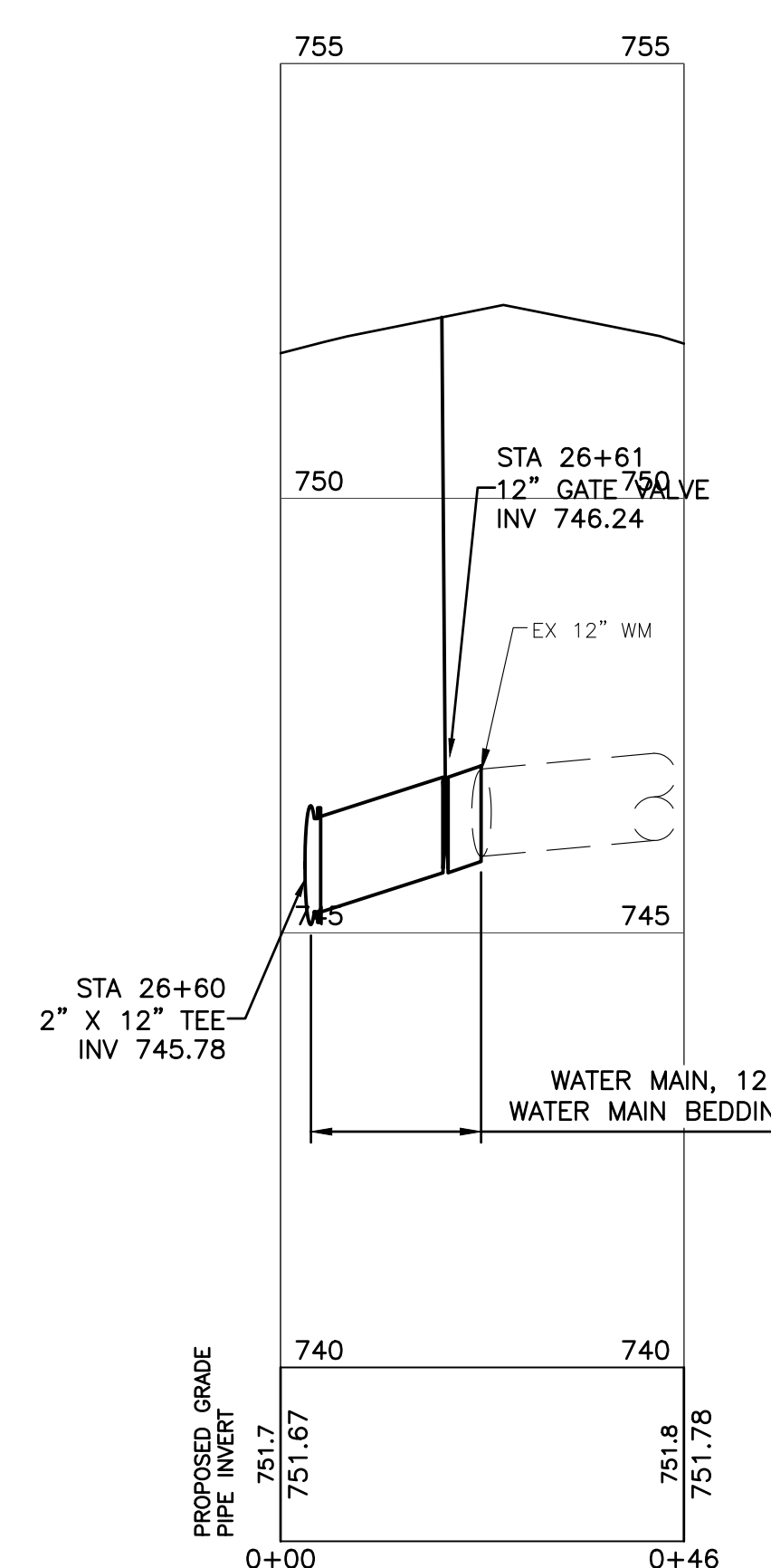
**E THIRD ST - STA 20+84**  
**8" WATER MAIN**  
 SEE SHEET 9



**E FOURTH ST - STA 24+96**  
**8" WATER MAIN**  
 SEE SHEET 10



**W FOURTH ST - STA 24+96**  
**8" WATER MAIN**  
 SEE SHEET 10



**COURT ST - STA 26+91**  
**12" WATER MAIN**  
 SEE SHEET 11



REV#	DATE	DESCRIPTION	BY

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**CITY OF FLINT**  
**1101 SOUTH SAGINAW STREET**  
**FLINT, MI 48502**  
 SAGINAW STREET WATER MAIN REPLACEMENT PROJECT  
 WATERMAIN LATERAL PROFILES

ISSUED FOR: IFB	DATE: 1-25-23	BY: KEK
OWNER REVIEW: 9-14-22	DATE: 1-25-23	BY: KEK
JOB NO.: COF1069.01F	SHEET: 13	

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