

CITY OF ANN ARBOR THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE **PROJECT MANAGEMENT** ROVEMENTS COVERED BY THESE PLANS OMISSION OF ANY CURRENT STANDARD DETAIL DOES ONTRACTOR FROM THIS REQUIREMENT HEWETT DR, RUSSELL RD, RUSSETT RD & **REDEEMER AVE WATER MAIN REPLACEMENT**

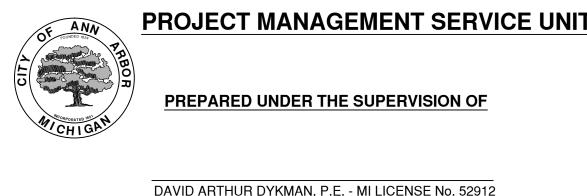
	SHEET LIST TABLE
SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	NOTES
3	LEGEND
4	ROAD SECTION AND TRENCH DETAIL
5	OVERALL UTILITY SHEET
6-9	REMOVALS
9-25	WATER MAIN PLAN & PROFILE
26-29	ROAD PLAN & PROFILE



BID No. 4378, FILE No. 2013034

WARREN SCIOCHURCI ISFNHOWER WATERS PACKARD ELLSWORTH RD ELLSWORTH

VICINITY MAP



NOTES:

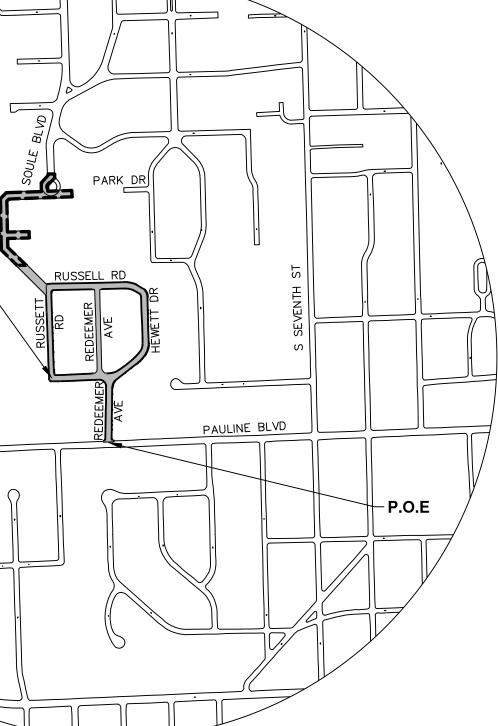
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P.O.B

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE PUBLIC ACT 53, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-717 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDIN AND HOLIDAYS, PRIOR TO BEGINNING EACH AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM

ELECTRICAL POWER, CABLE TV AND FIBER OPTIC FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUS

ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 201 STANDARD SPECIFICATIONS FOR CONSTRUCTION (INCLUDING M.D.O.T. PUBLICATIONS) AND THIS PROJECT'S CONTRACT DOCUMENTS.



DAVID ARTHUR DYKMAN, P.E. - MI LICENSE No. 52912 PROJECT MANAGER

> XX / XX / 2015 DATE

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		03/18/15	02/26/15	07-22-14	DATE	
		POST MDEQ 2015 REVIEW	EBERWHITE EXTENSION	MDEQ PERMIT REVIEW COMMENTS	DESCRIPTION	78; 2013034
		02	01	00	REV.	0.43
AMA	D		O 200 8647 ANN ARBOR, MI 48107-8647		CHIGH	/E WATER MAIN REPLACEMENT; BID No. 4378;
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR					4 - 1	DR, RUSSELL RD, RUSSETT RD & REDEEMER AV
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SOIL EROSION CONTROL NOTES:

GENERAL

- maintain the soil erosion control measures as shown on the plans at all times during construction on this project. Any modifications or additions to the soil erosion control 9. Proper dust control shall be measures due to construction or changed conditions shall be complied with as required or directed by the owner, project engineer, or the City of Ann Arbor. The contractor is required to obtain 10. The contractor shall be a Soil Erosion Control Permit anytime the disturbed area exceeds 1 acre.
- All soil erosion and sedimentation control work shall conform to the permit requirements of the City of Ann Arbor, Chapter 63, and the laws of the State of Michigan.
- Daily or after storm events inspections shall be made by the contractor. Periodic inspections may be made by the owner/project engineer to determine the effectiveness of erosion and sedimentation control measures. Any necessary corrections shall be made without delay, and without additional cost to the Owner.
- Erosion and sedimentation from work on the site shall be contained on the site and not be allowed to collect on any off-site areas or waterways.
- All mud/dirt tracked onto roads from the site due to construction, shall be promptly removed by the contractor. If so ordered, the Contractor shall employ a mechanical street sweeper at no additional cost to the Owner.
- Restoration of all disturbed areas, including placement of topsoil, seed, fertilizer and mulch and/or sod shall be done within 5 days of the completion of final grade
- Construction operations shall be scheduled and performed so that preventative soil erosion control measures are in place prior to excavation in critical areas and temporary stabilization measures are in place immediately following backfilling operations.

- The contractor shall implement and 8. Special precautions will be taken in 8. Ensure all soil is stabilized. the use of construction equipment to prevent situations that promote erosion.
 - maintained during construction by use of water trucks and/or chloride as required or as directed by Engineer.
 - responsible for maintaining all temporary soil erosion control measures and removal of some upon authorized completion of the project. Completion of project will not be authorized until all site work 1. During construction, all roads shall and utility construction is complete and all soils are stabilized.
 - 11. The contractor shall not grade into adjacent properties. Silt fence shall be installed and maintained to prevent grading, erosion and sedimentation into them.
 - intact until restoration of the site is complete.

SEQUENCE OF EROSION CONTROL MEASURES:

- I. Install silt fence, tree protection fencing and inlet filters on existing storm inlets prior to any clearing or earth moving operation.
- 2. Install inlet filters immediately following installation of proposed storm drainage system.
- 3. Contractor to continually maintain erosion and sedimentation control measures, as required to allow drainage and sediment removal. Remove any accumulated sediment.
- 4. Strip and clear maintain erosion control measures around temporary stock piles.
- 5. Rough grade
- 6. Install stormwater management system.
- 7. Connect stormwater management system.

Remove all temporary soil erosion control measures.

TEMPORARY SEEDING:

- 1. Seed in accordance with project drawings and specifications.
- 2. Any disturbed area not paved, seeded, mulched, sodded or built upon by November 15th or June 30th is to be temporarily stabilized per specifications.

<u>ROADS:</u>

- be protected from unvegetated areas washing onto road surface by placement of silt fence behind curb or a 10 foot wide straw mulch bank behind curb or other approved method and/or as shown on the plans.
- 12. Tree protection fencing must remain 2. During construction of any portion of the project, adjoining roads shall be maintained free of dirt, silt and construction debris. Contractor required to use vacuum sweeper equipment for cleaning construction site and adjoining roads. The use of broom sweeper is not permitted.

CATCH BASIN/MANHOLE PROTECTION:

1. Protect storm sewer catch basins with approved inlet filters.

STRUCTUR r1 r2 r3 r4 r5 r6 r7 r8 r9 r10 r11 r12 r13 r14 r15 r16 r17 r18 r19 r20 r21 r22 r23 r24 r25 r26 r27 r28 r29 r30 r31 r32 r33 r34 r35 r36

	STORM S	SEWER	STRUCT	URE TABL	E
RE	UTILITY STATION	RIM	DEPTH	TYPE	INVERTS
	???	901.66	15.00	МН	30" W 886.66
	7+56	902.34	10.72	МН	30" S 891.62 12" SW 897.24 12" SE 897.34 12" N 894.47 30" NE 891.62
	9+86	903.07	9.93	МН	30" SW 893.19 12" S 897.29 12" NW 897.79 30" N 893.14
	12+27	906.92	8.77	МН	30" W 898.15 30" NE 898.15
	3+94	908.26	9.40	МН	12" S 900.23 30" W 898.91 12" SW 902.76 12" N 903.11 30" E 898.86
	3+20	909.21	10.50	МН	30" W 900.76 12" SW 903.51 12" NW 903.41 12" N 903.21 12" NE 903.31 30" E 900.71
	0+93	915.05	8.77	МН	12"W 907.00 30"E 906.28 24"SW 906.48
	???	917.32	7.25	МН	24"NE 910.07 24"SW 910.07
	???	920.83	8.00	ΜΗ	24" NE 912.83 24" W 912.83
	???	929.66	15.93	МН	24"E 913.73
	6+48	904.91	8.35	МН	12"S 896.56 12"NE 899.91 12"NW 896.61 12"W 899.81
	5+95	906.15	8.50	МН	12"SE 897.65 12"NW 897.75
	5+26	907.78	9.15	МН	12"SE 898.73 12"W 898.63
	3+35	915.31	8.30	МН	12" E 907.01 12" S 910.51 12" SW 909.81 12" W 909.81 12" NW 910.01 12" W 907.11
	0+35	920.24	8.43	МН	12"E 911.81 12"S 913.14 12"W 911.91
	6+90	909.12	7.10	МН	12"S 902.07 12"E 905.01 12"N 902.02
	10+29	930.96	8.19	МН	12"W 926.17 12"S 926.24 12"N 922.77
	0+35	918.25	7.49	МН	12"W 912.15 12"N 912.05 12"E 910.76
	7+68	901.82	6.10	СВ	12" NE 897.72
	7+70	901.78	5.70	СВ	12" NW 898.08
	9+79	902.70	6.30	CB	12" SE 898.40
	10+07 3+95	902.93 907.72	6.50 5.90	СВ	12" N 898.43 12" S 903.82
	3+95 6+60	907.72	5.90 6.00	СВ	12" S 903.82 12" NE 904.04
	5+39	910.16	6.95	СВ	12" SW 905.21
	3+12	908.88	6.00	СВ	12" NE 904.88
	2+93	909.26	6.10	СВ	12" SE 905.16
	5+29	910.03	5.60	CB	12" S 906.43
	5+37	919.99	7.50	СВ	12"S 914.49
	0+14	918.81	7.30	СВ	12" E 913.51
	6+37	904.84	5.10	СВ	12" E 901.74
	6+36	904.97	5.70	СВ	12"SW 901.27
	0+32 0+32	915.86 916.12	5.79 6.30	СВ	12" N 912.06 12" NE 911.82
	2+98	915.72	6.00	СВ	12" NE 911.82 12" E 911.72
	3+22	915.72	6.30	СВ	12 E 911.72 12" SE 910.84
			5.50		

	STORM SEWER STRUCTURE TABLE						
STRUCTURE	UTILITY STATION	RIM	DEPTH	TYPE	INVERTS		
r37	0+11	920.06	7.50	СВ	12"E 914.56		
r38	0+56	921.16	8.50	СВ	12"N 914.66		
r39	5+34	930.68	5.50	СВ	12"E 927.18		
r40	5+63	930.83	4.50	СВ	12"N 928.33		
r41	6+90	908.57	4.85	СВ	12"W 905.72		
r42	???	929.01	11.51	СВ	12"N 919.50		
r43	???	929.32	14.32	ΜН	12"S 915.00 12"N 915.00		
r44	???	927.41	5.00	ΜΗ			

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STRUCTURE	STATION	RIM	DEPTH	TYPE	INVERTS
s1	7+28.54	900.53	12.73	MH	10"W 887.80
s2	7+28.08	902.78	14.30	МН	8"N 892.68 10"E 892.60 10"S 888.48
sЗ	9+64.22	902.94	12.00	МН	10"N 890.94 10"SW 891.04
s4	4+29.89	907.12	12.30	МН	10"NE 894.82 10"W 894.87
s5	3+83.98	908.42	12.75	МН	8"S 896.62 10"E 895.67 8"W 895.72
s6	3+35.24	909.46	12.50	МН	8"W 897.01 8"E 896.96 8"N 897.01
s7	0+91.30	915.22	11.85	МН	8"E 903.37 8"W 905.62 8"SW 903.42
s8	???	918.19	10.15	МН	8"NE 908.04 8"SW 908.09
s9	???	921.90	12.35	МН	8"NE 909.55 8"W 909.60
s10	???	928.45	13.70	МΗ	8"E 914.75 8"W 914.75
s11	???	0.86	1.19	МН	8"E −0.33
s12	9+22.50	923.80	7.45	МН	8"N 916.35
s13	4+19.34	916.06	9.75	МН	8"S 906.31 8"N 906.36
s14	2+36.30	924.63	9.40	МН	8"S 915.23 8"N 915.28
s15	0+31.34	918.79	9.95	МН	8"N 908.89 8"E 908.84
s16	3+17.68	926.41	10.10	МН	8"S 916.31
s17	6+30.88	905.15	10.05	МН	8"NW 895.15 8"S 895.10
s18	5+43.14	907.08	9.60	МН	8"SE 897.48 8"W 897.58
s19	3+36.38	915.02	10.90	МН	8"S 904.17 8"W 904.22 8"E 904.12
s20	2+39.98	917.24	10.00	МН	8"W 907.39 8"E 907.24
s21	0+29.39	919.79	10.00	МН	8"S 909.89 8"E 909.79
s22	2+56.25	926.48	9.90	МН	8"N 916.58
s23	1+22.57	922.39	9.35	MH	8"S 913.09 8"N 913.04
s24	3+94.34	932.43	12.45	МН	8"E 921.98
s25	6+13.86	931.20	12.25	МН	8"W 921.00 8"E 920.95
s26	7+39.07	930.71	10.00	МН	8"W 920.71

PERMITS REQUIRED TO BE OBTAINED BY THE CONTRACTOR **PRIOR TO THE BEGINNING OF CONSTRUCTION.**

PERMIT	ISSUING AUTHORITY
LANE CLOSURE PERMIT	CITY OF ANN ARBOR PROJECT MANAGEMENT UNIT
"NO PARKING" SIGNS PERMIT	CITY OF ANN ARBOR PROJECT MANAGEMENT UNIT
GRADING/SOIL EROSION & SEDIMENTATION CONTROL PERMIT	CITY OF ANN ARBOR CUSTOMER SERVICE
RIGHT-OF-WAY PERMIT	CITY OF ANN ARBOR CUSTOMER SERVICE

* NO COST TO CONTRACTOR

PERMITS REQUIRED TO BE OBTAINED BY THE CITY OF ANN ARBOR PRIOR TO THE BEGINNING OF CONSTRUCTION.

PERMIT	ISSUING AUTHORITY
M.D.E.Q. WATER MAIN CONSTRUCTION	MICHIGAN DEPARTMENT OF
PERMIT	ENVIRONMENTAL QUALITY

CONTACT INFORMATION

PUBLIC UTILITIES	OWNER	CONTACT
WATER		DAN WOODEN (734) 794–6350
SANITARY	CITY OF ANN ARBOR	MARK COZART (734) 794–6350
STORM	FIELD OPERATIONS SERVICE UNIT W.R. WHEELER SERVICE CENTER	KEVIN ERNST (734) 794–6350
FORESTRY	4251 STONE SCHOOL ROAD ANN ARBOR, MI 48108	STEVEN GOEBEL (734) 794–6350
SIGNS SIGNALS STREET LIGHTS		CHUCK FOJTIK (734) 794–6361
PRIVATE UTILITIES	OWNER	CONTACT
GAS	DTE ENERGY 3150 E. MICHIGAN AVE, YPSILANTI TOWNSHIP, MI 48198	ROBERT CZAPIEWSKI (734) 544–7818
ELECTRIC	DTE ENERGY WESTERN WAYNE SERVICE CENTER 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	CLAY COMBEE (734) 397-4112
CABLE	COMCAST 27800 FRANLKIN ROAD SOUTHFIELD, MI 48034	RON SUTHERLAND (313) 999–8300
PHONE	AT&T 550 S. MAPLE ROAD ANN ARBOR, MI 48103	ANDY JOHNSON (734) 996–2135
FIBER OPTIC	MCI 2800 N. GLENFILLE ROAD RICHARDSON, TX 75082	DEAN BOYERS (972) 729–6016



BM #	ELEV	DESCRIPTION
1	932.790	RR spike in N side of LP on S side of Pauline and Redeemer
2	922.330	RR spike in W side of LP on E side of Redeemer between house numbers 1027&1015
3	910.790	RR spike in N side of LP on S side of Hewitt @ CL of Redeemer extended from the North
4	912.910	RR spike in N side of LP on S side of Hewitt on the E side of drivway for HSE # 1401
5	924.510	RR spike in W side of LP on E side of Russett, 100' N of CL Hewitt
6	926.980	RR spike in W side of LP on E side of Russett between House #813 & 819
7	922.960	RR spike in E side of LP @ NW corner of Russett & Russell
8	916.330	RR spike in S side of LP on N side of Russell & Redeemer
9	907.830	N Rim on Storm MH @ CL of Russell in front of HSE #1210
10	904.930	N Rim of Storm MH @ CL of Russell in front of HSE #801
11	903.530	RR spike in E side of LP on W side of Russell between HSE #814 & 820
12	904.910	RR spike in NW side of LP on E side of Russell @ HSE #831
13	916.320	RR spike in W side of LP on E side of Redeemer between HSE #845 & 835
14	924.380	RR spike in W side of LP on E side of Redeemer between HSE #801 & 811

CONSTRUCTION NOTES:

- property, and the like shall not be blocked unless approved by the Engineer. Vehicular and pedestrian access shall be maintained at all times. It shall be the Contractor's responsibility to coordinate all necessary driveway closures with the property owner(s) and resident(s) in the areas of construction.
- The location and depth of all existing utilities and service leads are to be field verified by the Contractor prior to construction.
- Location and depth of utilities as depicted on the plans is approximate and shown according to the best information available. It is the Contractor's responsibility to excavate ahead and adjust depth of conflict utilities accordingly. Damage to utilities is the Contractor's responsibility to avoid and/or repair as necessary.
- 4. The Contractor is to take special care to protect the existing water main and is responsible for maintaining consistent water service.
- 5. During non-working hours no trench shall remain open-unless approved by the Engineer; any open trench shall be properly secured with protective fencing. This work shall be included in the item of work "General Conditions".
- Trenches for transferring water services shall 6. be excavated to MIOSHA and City of Ann 17. All fittings, hydrants, valves and castings
- 7. City of Ann Arbor Field Services will install the corporation and copper service lead(s) to transfer the connection(s). If an existing water service is found to be failing or is not copper, the lead will be replaced to the curb box by Field Services.
- For the installation of corporations, or any other related activities, the Contractor shall not receive additional compensation for delays 19. The Contractor shall be responsible for the due to the scheduling of or coordination with the City of Ann Arbor Field Services.
- The Contractor shall backfill trenches in accordance with Trench Detail(s) shown on plans. This work shall be included in the item of work "Excavate and Backfill for Water Service Tap and Lead". All concrete removals 20. All curb, sidewalk, driveway approach removals and replacements required for this work will be paid for separately.
- 10. All ductile iron pipe and fittings shall be C105/A21.5.
- 11. Cor-blu bolts to be used at all mechanical fittings

- 1. Driveways and entrances to buildings, real 12. When all water services are transferred the 23. For mainline paving, the width of the mat for Contractor shall abandon the existing water main. Reference the Detailed Specifications for water main abandonment procedures. Caps and plugs shall be installed by the Contractor where shown on the plans and shall be included in the item of work for water main 24. All structures shall receive new castings as abandonment or as directed by Engineer.
 - 13. The Contractor shall construct, flush, and bacteriologically test the water main per the Detailed Specifications and as approved by the Engineer. All chlorinated water shall be discharged directly into an approved sanitary sewer. The Contractor shall supply all necessary hoses, fittings and the like to 25. Payment for drainage structure sumps, where accomplish this work.
 - 14. Water main fittings, other than those specifically listed as separate pay items, which are required to complete the work, such as 26. Where sewer pipes of different sizes or blow-off assemblies, concrete thrust blocks, solid sleeves and mechanical plugs, shall not be paid for separately, but shall be included in the pipe pay items.
 - 15. "No Parking" signs shall be installed by the Contractor at locations as approved or directed by the Engineer. All signs shall be installed in accordance with the detailed specifications.
 - 16. Postal delivery and refuse pickup service shall 27. Where sewer and water main are to be be maintained at all times by the Contractor.
 - removed during construction are the property of the City of Ann Arbor. The Contractor within 48 hours shall deliver to City of Ann Arbor Field Operations and Maintenance Facility at the W.R. Wheeler Service Center 28. Existing street name, guide, and regulatory located at 4251 Stone School Road.
 - 18. Where street curbs are undermined due to construction activities, they shall be removed and replaced as directed by the Engineer.
 - continuous maintenance of the temporary road surface and soil erosion control measures 29. In areas where edge drain cannot be installed within the construction area until the full completion of the project. This work shall be included in the item of work "General Conditions".
 - shall be approved by Engineer before the work is done.
- polyethylene wrapped per ANSI/AWWA 21. Sawed sewer pipe connections shall be coupled with a Fernco flexible coupling and a stainless steel shear ring.
- water main joints at hydrants and Megalug 22. The location of material stock piles and on-site staging areas to be approved by the Engineer.

- each pass of the paver shall be not less than 10.5' or greater than 15', as directed by the Engineer. The Engineer will direct the layout of the longitudinal joints during construction.
- directed by the Engineer, as specified on the standard casting schedule. The existing castings are the property of the City of Ann Arbor. The Contractor shall deliver to City of Ann Arbor Field Operations and Maintenance Facility at the W.R. Wheeler Service Center located at 4251 Stone School Road.
- specified, shall be included in the payment for the various drainage structure sizes and or types.
- materials are joined, Fernco flexible coupling with stainless steel shear rings shall be used. The Contractor's purchase price for these devices, including shipping, shall be paid as an extra. Prior to payment for this item, the Contractor shall submit receipts for the Engineer's review and approval. All other costs associated with the installation of these devices shall be included in the payment for the sewer.
- removed, replaced, and/or added, all pipe shall be installed using the Trench Detail(s) included in the specifications or shown on Plans. Backfill for sewer and water construction shall be MDOT Granular Material, Class II, Modified.
- signs, and mailboxes which conflict with the proposed construction shall be removed prior to construction, stored in a manner which will prevent damage, and re-set in locations as directed by the Engineer. This work will not be paid for separately, but shall be included in "Machine Grading, Modified"
- in accordance with the Detailed Specifications, the edge drain shall be installed at the depth as indicated on the plans, or as directed by Engineer. In no case shall the edge drain be installed at a grade less than 0.50% or at a depth of less than 2' below top of proposed pavement.

EXIS

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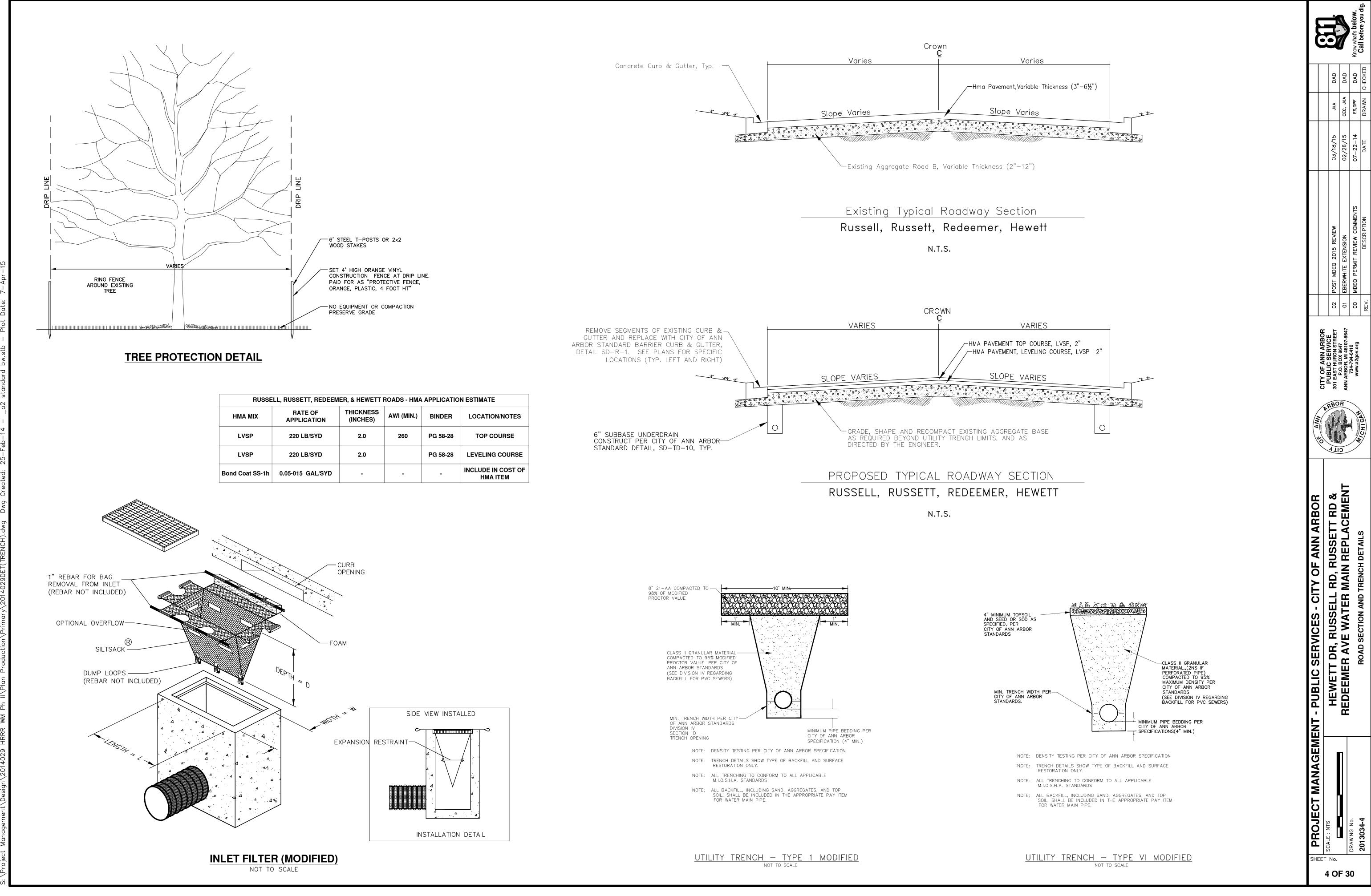
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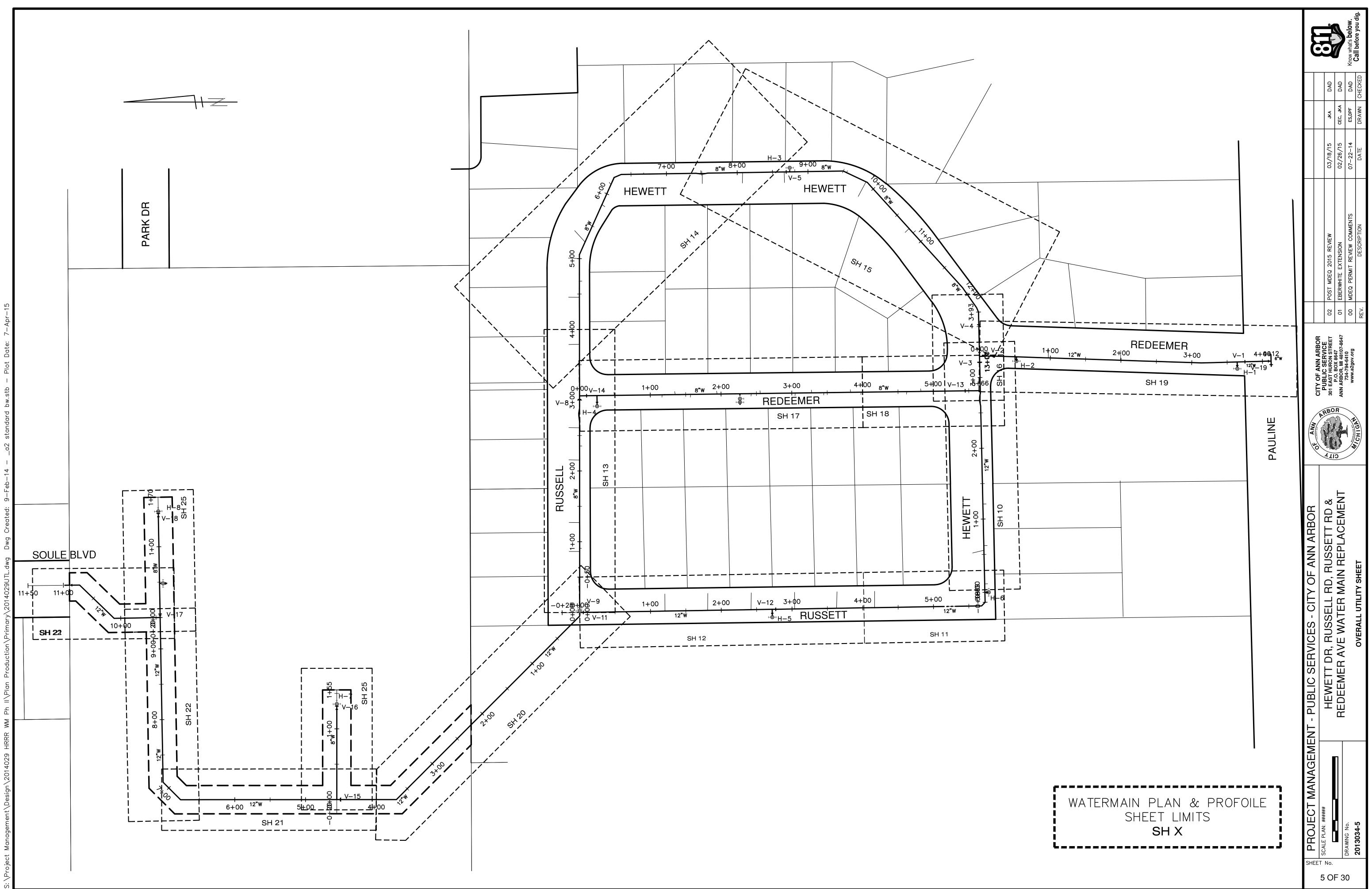
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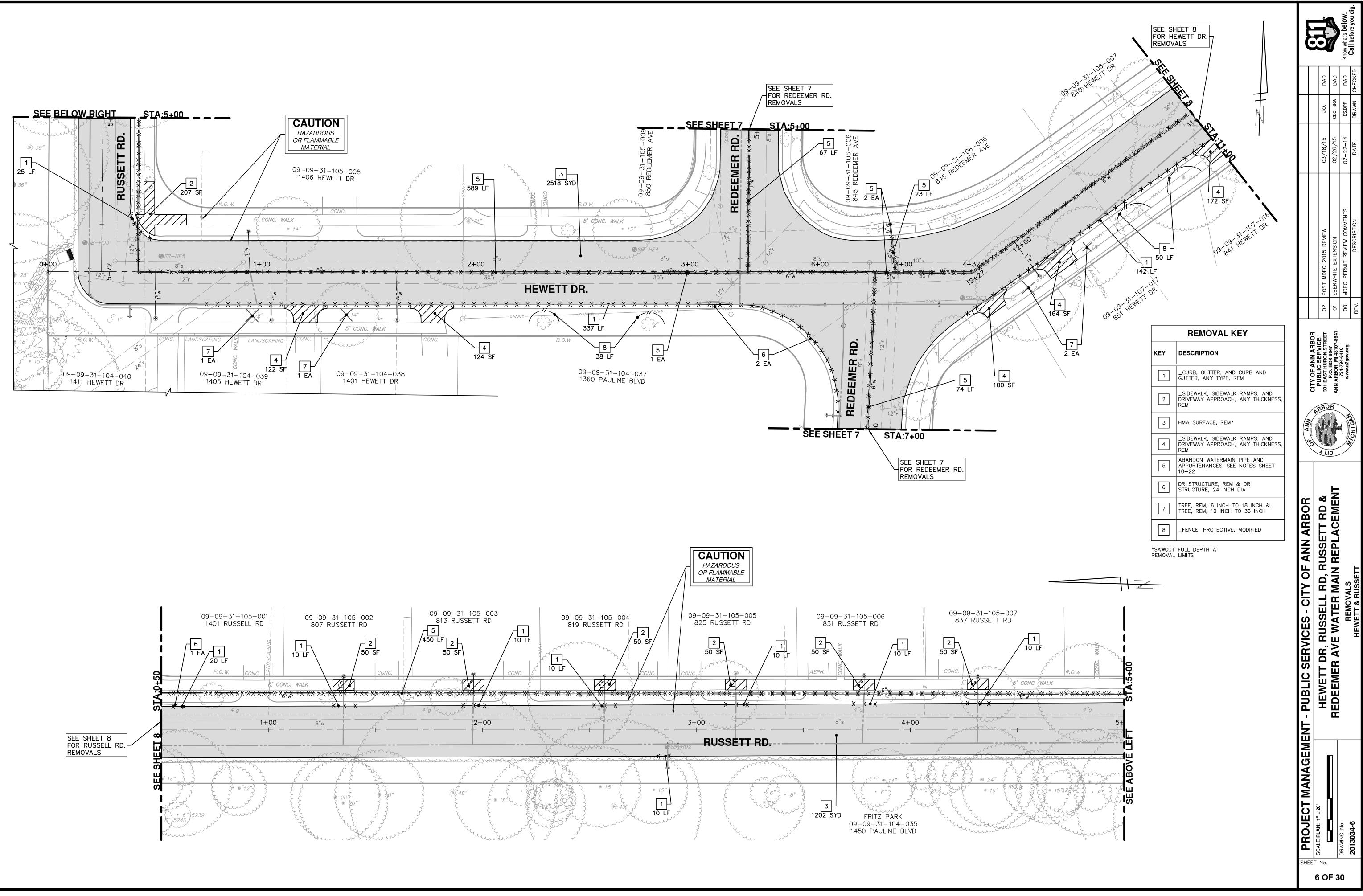
PROPOSED LEGEND

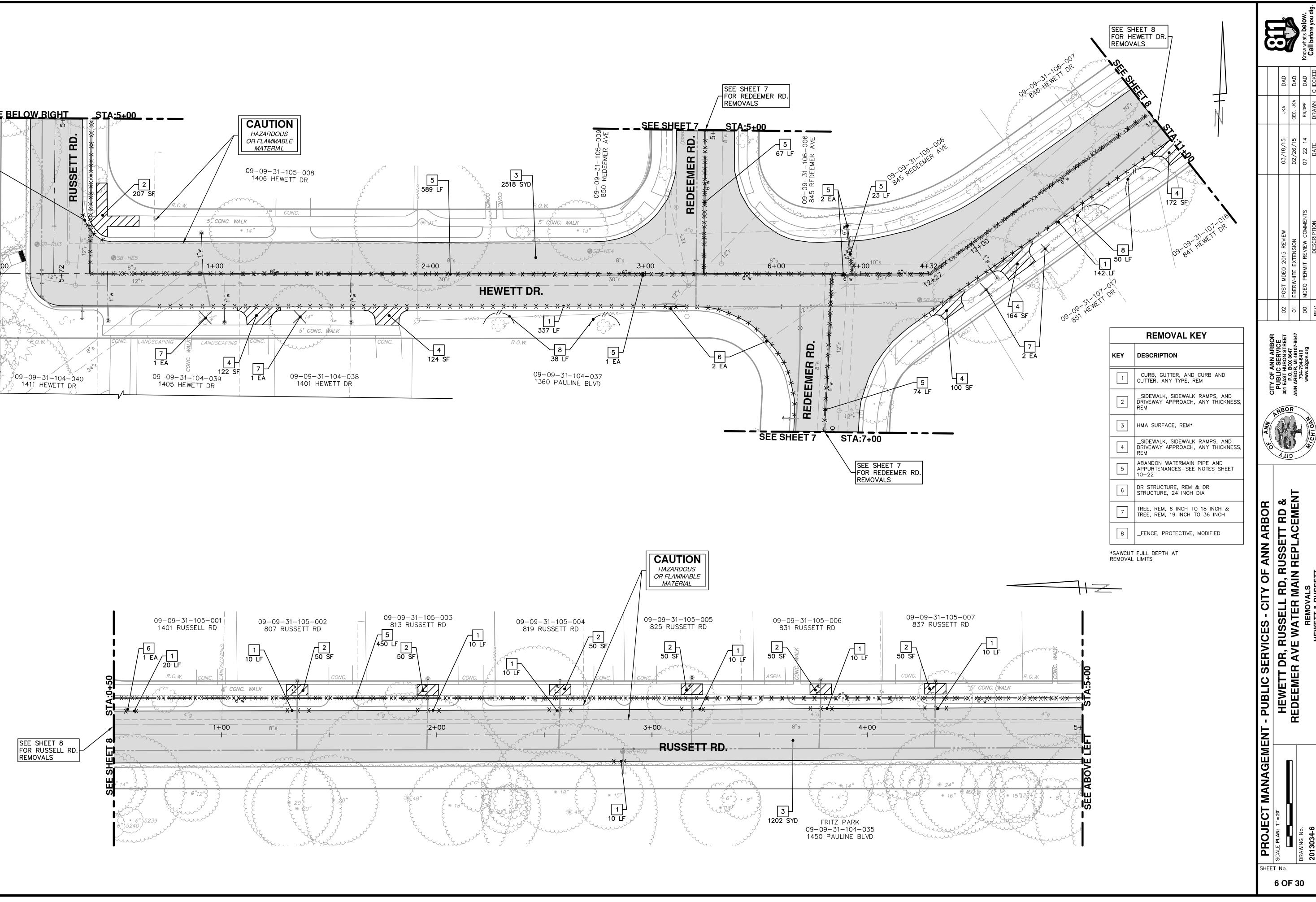
OPOSED LEGEND				<u> </u>	
HYDRANT (PLAN)	W	WATER MAIN	ARBOR	USSETT RD &	
WATER GATE WELL	R	STORM SEWER	ы	RD EM	
REDUCER	<u>\$</u>	SANITARY SEWER	AR	EY	
WATER GATE VALVE		CENTERLINE OF DITCH			Ì
WATER STOP BOX		CENTERLINE OF ROAD	ANN	RUSSE M REPL	1
WATER VAULT	////	FENCE	A	Э́г	
INLET	<u> </u>	SILT FENCE	OF	L Z	
DOUBLE INLET		LOT/UNIT	×	RD AA	
INLET JUNCTION CHAMBER			СІТҮ		
ROUND CATCH BASIN		CURB			E E
STORM MANHOLE		TEMPORARY GRADING PERMIT	- S	RUSSELI E WATER	
DRAIN ARROW		WATER EASMENT	Ш	S N ≥	
FLARED END SECTION		STORM EASEMENT	I	μ	I
SANITARY MANHOLE		SANITARY EASEMENT	SERVICES	DR,	
CLEAN-OUT		R.O.W.	Ш С Ш		
BARREL		LIMITS OF CONSTRUCTION		FW	
SIGN		STONE WALL	Ē		
PUSH BUTTON			PUBLIC	HEWET	
		DETECTABLE WARNING		HEWETT D REDEEMER	
		ASPHALT	MENT		
		CONCRETE			
		SIDEWALK	ANA		
	•	TREE (DECIDUOUS)	PROJECT MANAGE	NTS	о No. 34-3
		TREE (CONIFEROUS)		SCALE : NTS	DRAWING No. 2013034-3

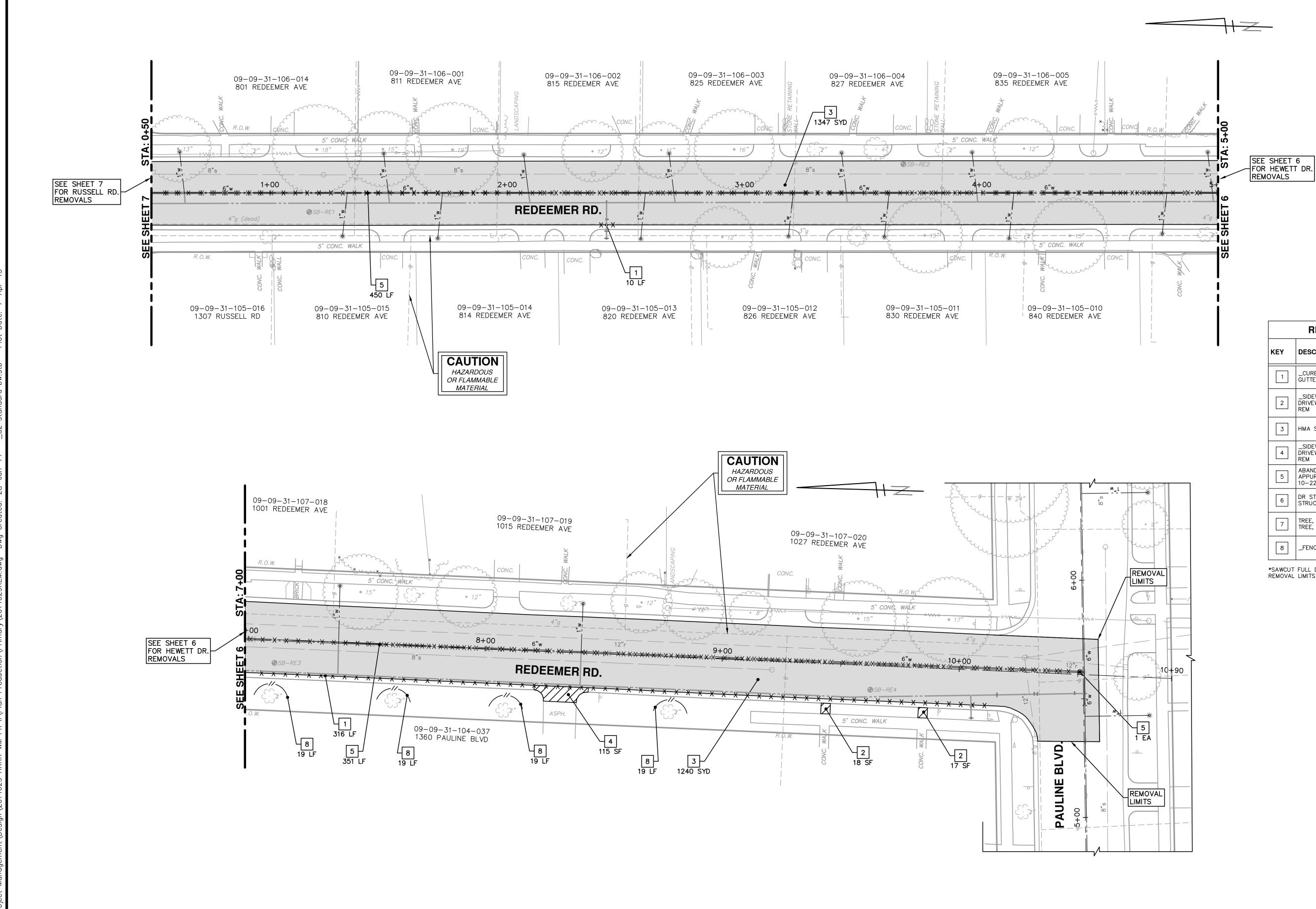
Zwi







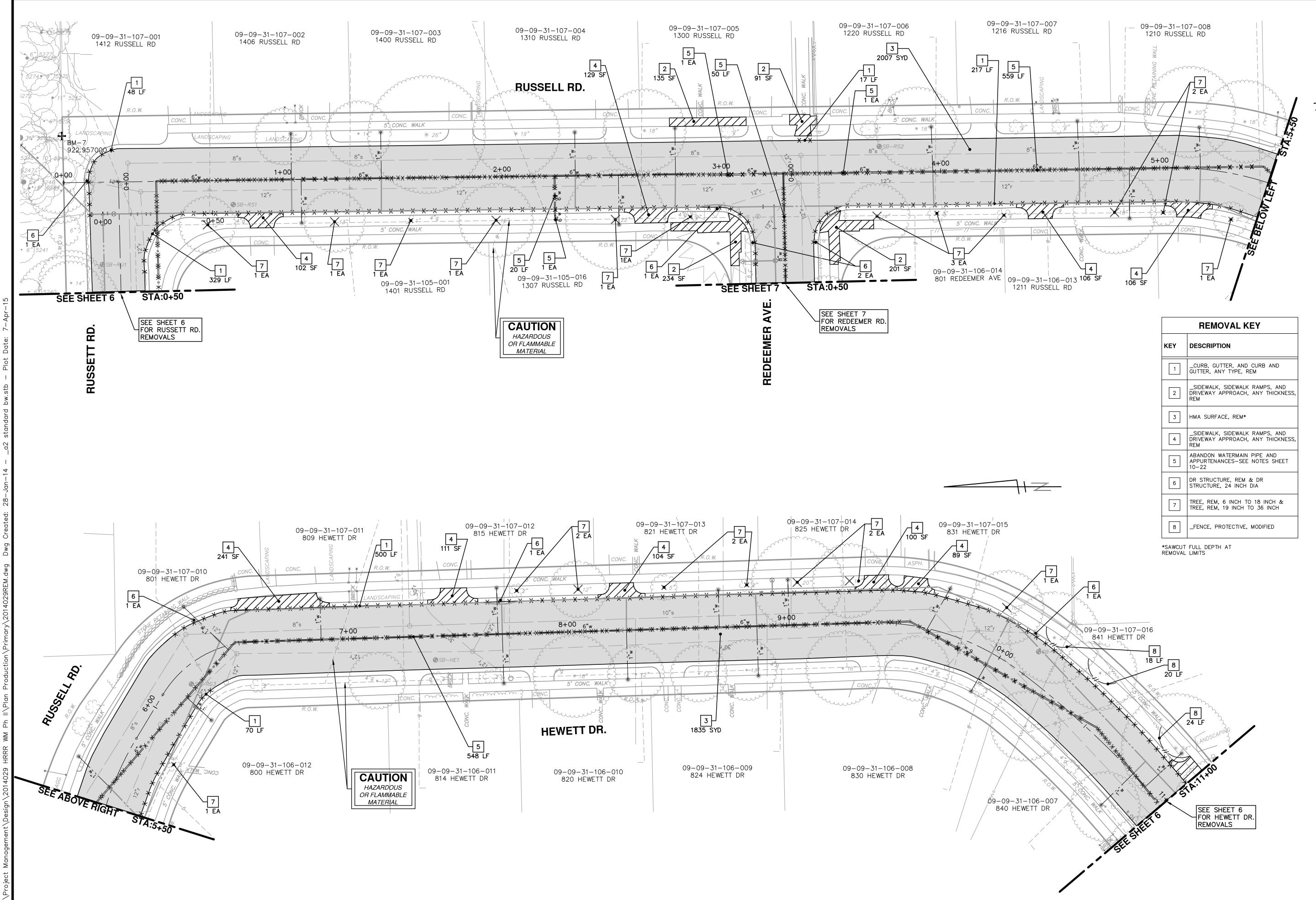




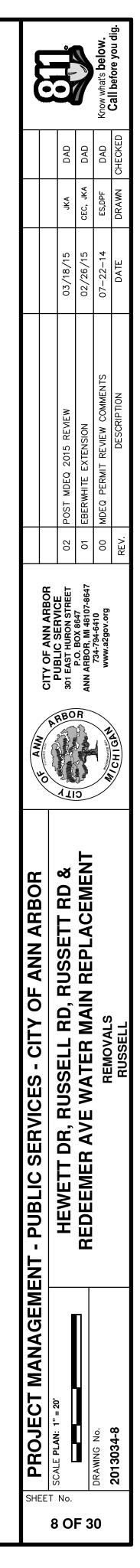
	REMOVAL KEY
KEY	DESCRIPTION
1	_CURB, GUTTER, AND CURB AND GUTTER, ANY TYPE, REM
2	_SIDEWALK, SIDEWALK RAMPS, AND DRIVEWAY APPROACH, ANY THICKNESS, REM
3	HMA SURFACE, REM*
4	_SIDEWALK, SIDEWALK RAMPS, AND DRIVEWAY APPROACH, ANY THICKNESS, REM
5	ABANDON WATERMAIN PIPE AND APPURTENANCES-SEE NOTES SHEET 10-22
6	DR STRUCTURE, REM & DR STRUCTURE, 24 INCH DIA
7	TREE, REM, 6 INCH TO 18 INCH & TREE, REM, 19 INCH TO 36 INCH
8	_FENCE, PROTECTIVE, MODIFIED

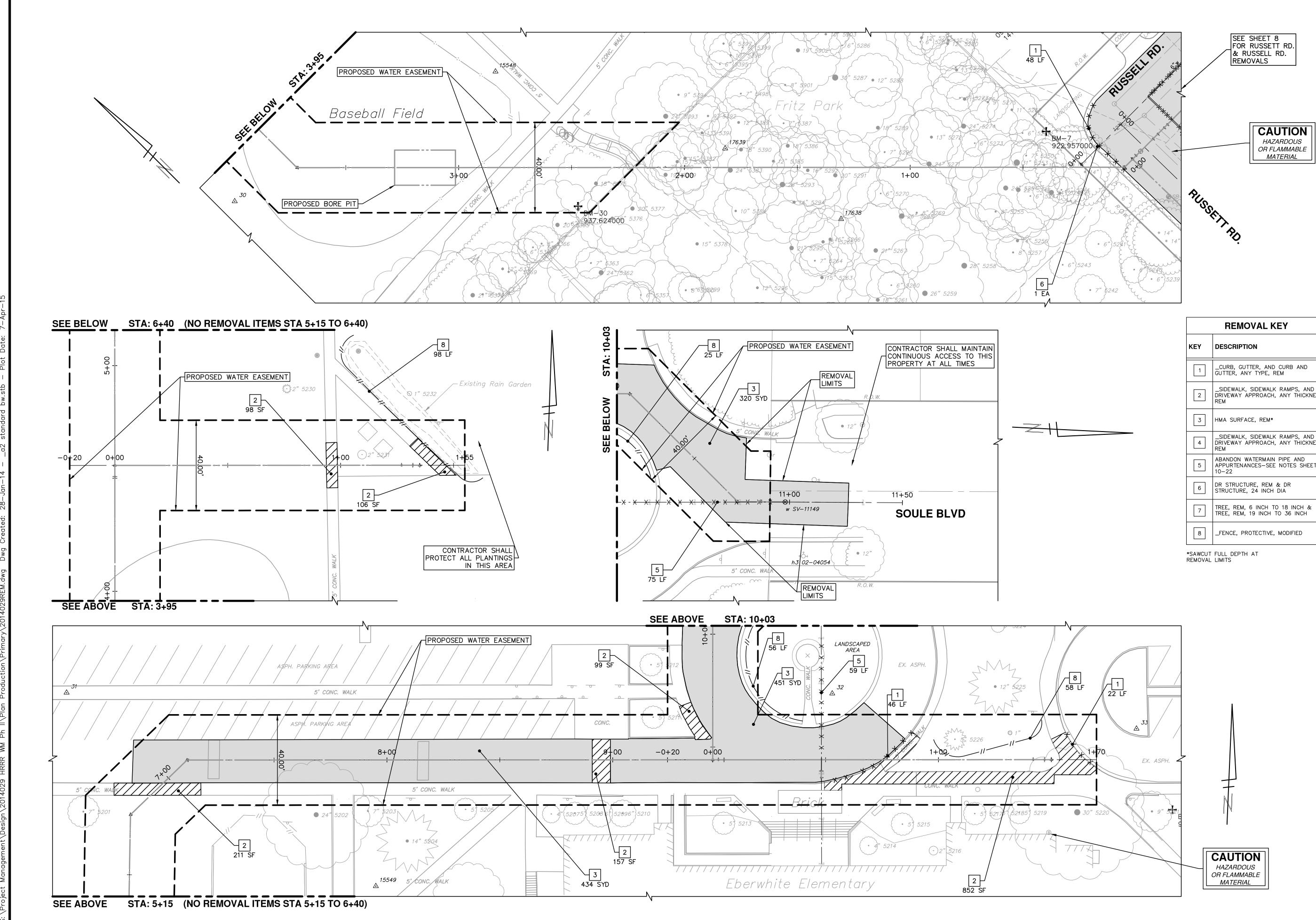
*SAWCUT FULL DEPTH AT REMOVAL LIMITS

		MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR	ANN ANN						Ę
7	SCALE DIAN: 1"- 20"								
0		HEWETT DR, RUSSELL RD, RUSSETT RD &	E and a solution of the second street	02	02 POST MDEQ 2015 REVIEW	03/18/15	АNU	DAD	
F 3		REDEEMER AVE WATER MAIN REPLACEMENT	O 20 20 267 ANN ARBOR, MI 48107-8647	01	EBERWHITE EXTENSION	02/26/15	CEC, JKA	DAD	
0	DRAWING No.	REMOVALS	734-794-6410 Www.a2gov.org	00	00 MDEQ PERMIT REVIEW COMMENTS	07-22-14	ES,DPF	DAD	Know what's below.
	2013034-7	REDEEMER	CHIGH.	REV.	DESCRIPTION	DATE	DRAWN	DRAWN CHECKED	Call before you dig.

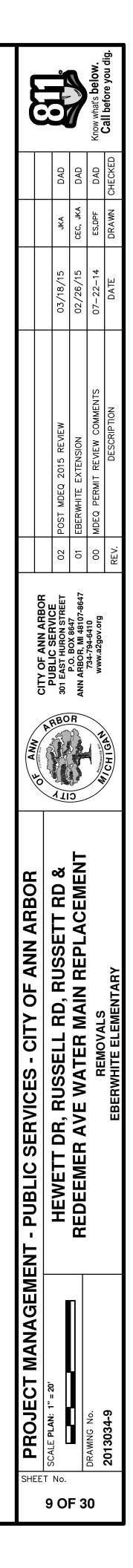


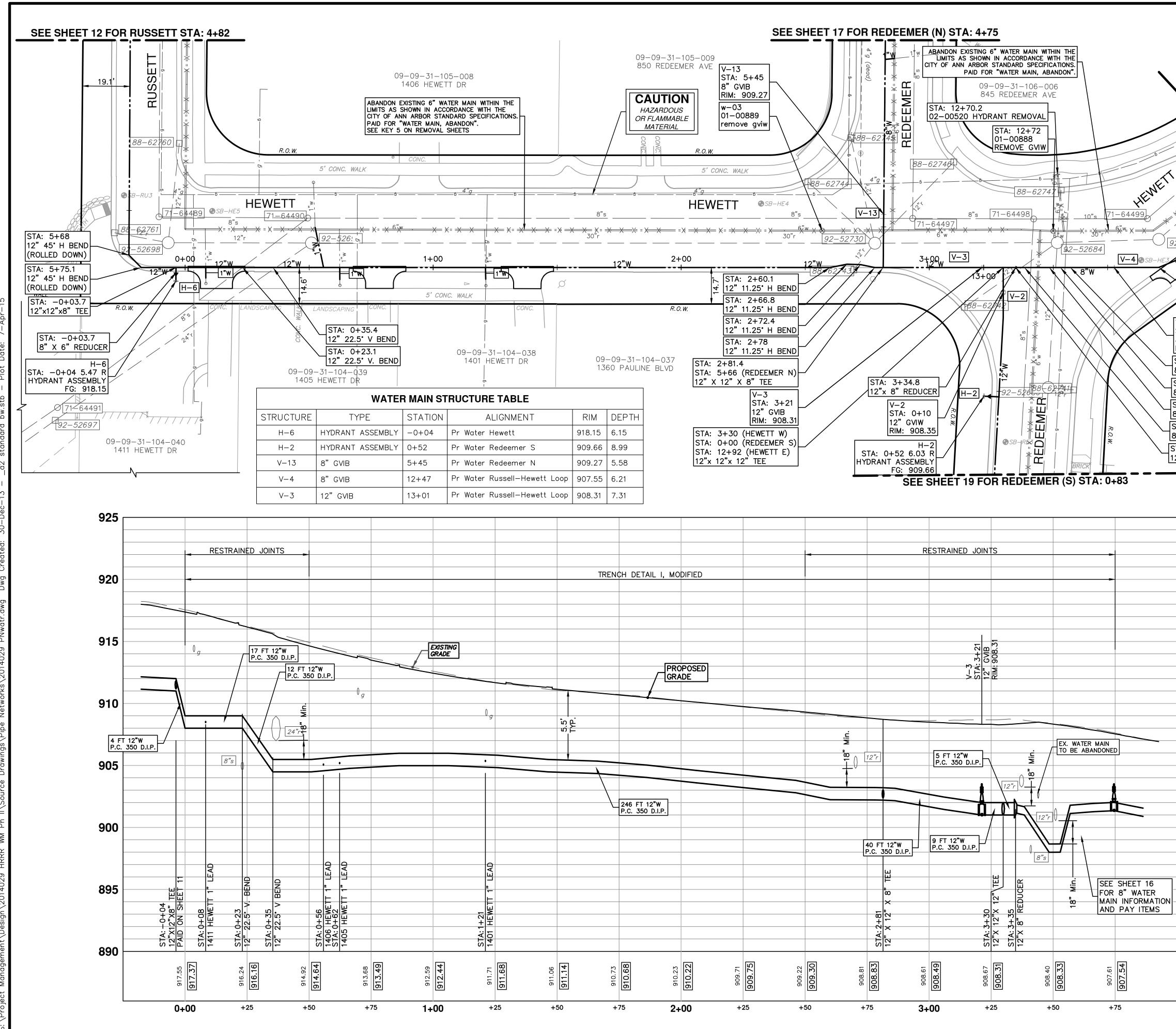
	REMOVAL KEY
KEY	DESCRIPTION
1	_CURB, GUTTER, AND CURB AND GUTTER, ANY TYPE, REM
2	_SIDEWALK, SIDEWALK RAMPS, AND DRIVEWAY APPROACH, ANY THICKNESS, REM
3	HMA SURFACE, REM*
4	_SIDEWALK, SIDEWALK RAMPS, AND DRIVEWAY APPROACH, ANY THICKNESS, REM
5	ABANDON WATERMAIN PIPE AND APPURTENANCES-SEE NOTES SHEET 10-22
6	DR STRUCTURE, REM & DR STRUCTURE, 24 INCH DIA
7	TREE, REM, 6 INCH TO 18 INCH & TREE, REM, 19 INCH TO 36 INCH
8	_FENCE, PROTECTIVE, MODIFIED
	ΕΙΨΙ DEPTH ΔΤ



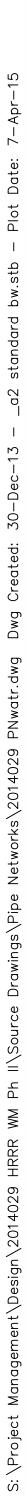


	REMOVAL KEY
KEY	DESCRIPTION
1	_CURB, GUTTER, AND CURB AND GUTTER, ANY TYPE, REM
2	_SIDEWALK, SIDEWALK RAMPS, AND DRIVEWAY APPROACH, ANY THICKNESS, REM
3	HMA SURFACE, REM*
4	_SIDEWALK, SIDEWALK RAMPS, AND DRIVEWAY APPROACH, ANY THICKNESS, REM
5	ABANDON WATERMAIN PIPE AND APPURTENANCES-SEE NOTES SHEET 10-22
6	DR STRUCTURE, REM & DR STRUCTURE, 24 INCH DIA
7	TREE, REM, 6 INCH TO 18 INCH & TREE, REM, 19 INCH TO 36 INCH
8	_FENCE, PROTECTIVE, MODIFIED

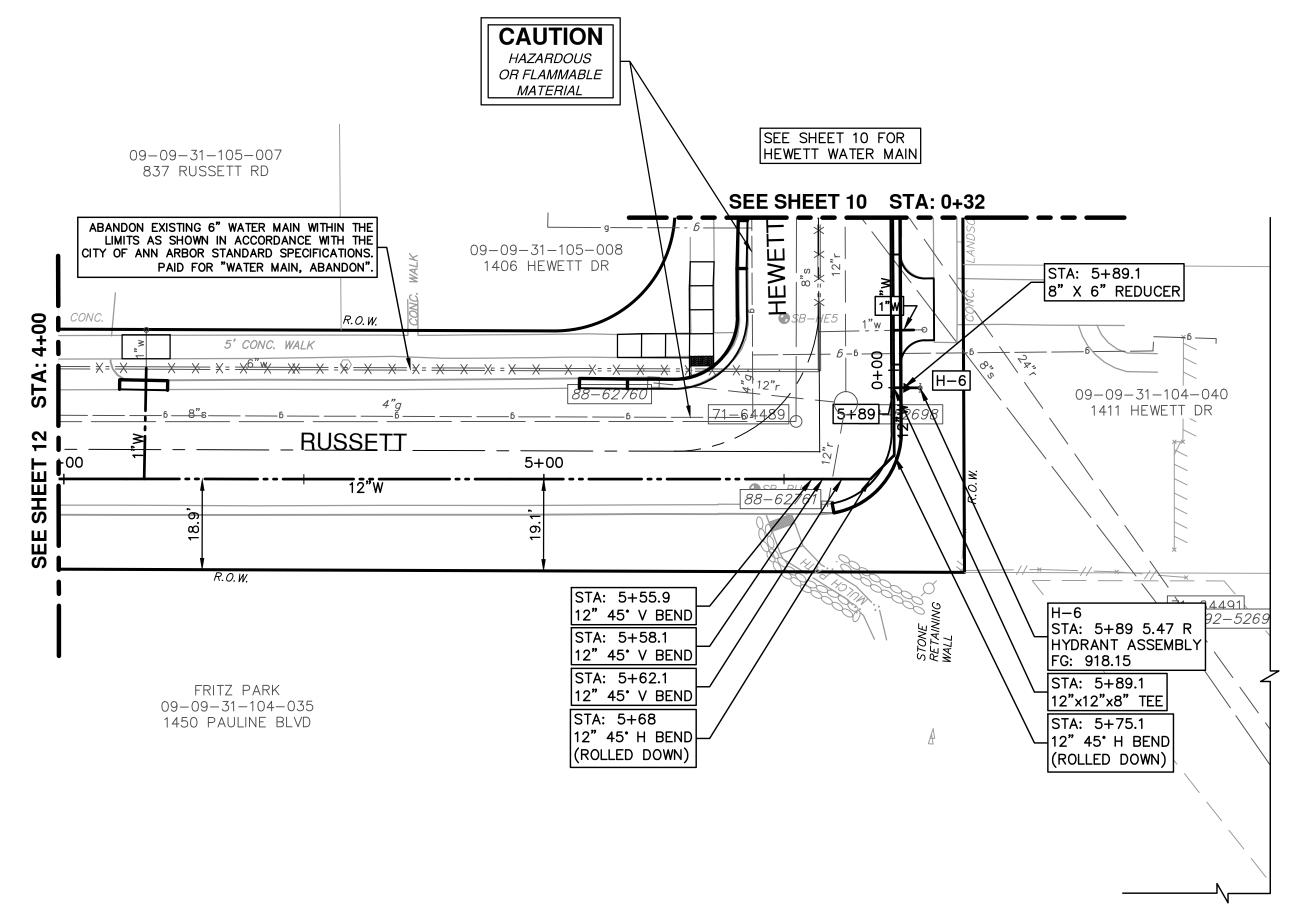


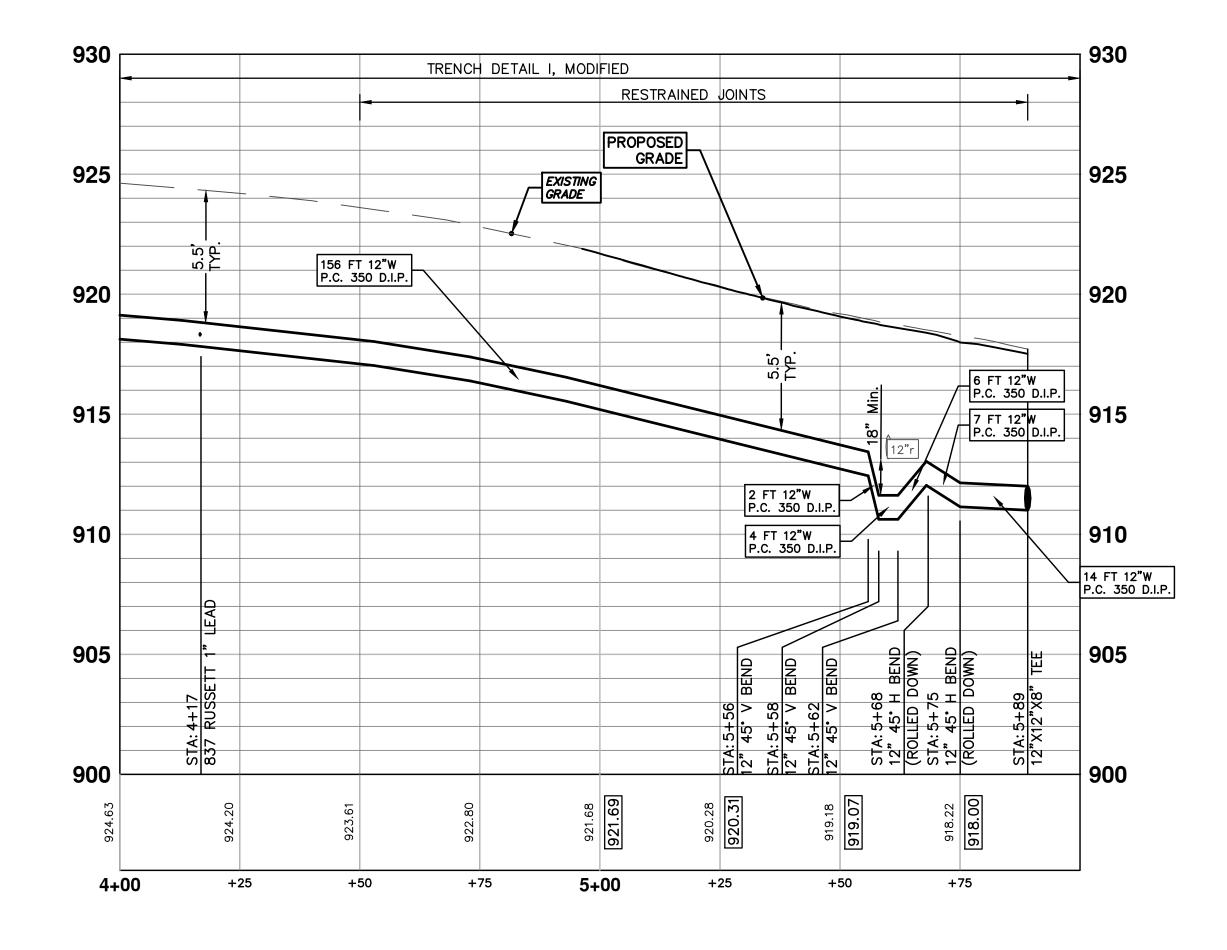


						6			Know what's below.	Call perore you alg.
Str. C.							DAD	DAD	DAD	CHECKED
	κ, '5						JKA	CEC, JKA	ES,DPF	DRAWN C
	O PARK	N					5			
							03/18/15	02/26/15	07-22-14	DATE
****		7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7								
2-52683	12+00								INTS	
S.							REVIEW	NO	PERMIT REVIEW COMMENTS	DESCRIPTION
Surc.							2015	EXTENSION	MIT REVIE	DES
V—4 STA: 12+ 8" GVIB	-47						POST MDEQ	EBERWHITE	MDEQ PER	
RIM: 907 STA: 12+ 8"45° V.	65.1						02	01 E	00	REV.
STA: 12+ 3 [°] 45° V. STA: 12+ 3 [°] 22.5° V. STA: 12+8 3 [°] 22.5° V. TA: 12+8 2 [°] x 8 [°] RÍ	BEND 73.6 /. BEND 33.6 /. BEND 37.1					CITY OF ANN ARBOR	PUBLIC SERVICE 301 EAST HURON STREET	P.O. BOX 8647 ANN ARBOR, MI 48107-8647	734-794-6410 www.a2gov.org	
						OF ANN	RBO		M. WCORDORATED WY	ACHIGH.
525		EV WATED MAIN CTOUCT					<u> 11</u>			
525	STRUCTURE	EX-WATER MAIN STRUCT	JRE TABLI	E RIM	DEPTH		<u> </u>			
	w-03	TYPE 01-00889 REMOVE GVIW	STATION 2+57	RIM 909.65	7.60					
920		TYPE 01-00889 REMOVE GVIW 02-00520 HYDRANT REMOVAL	STATION	RIM		BOR	SD &	MENT		
920	w-03 h-2	TYPE 01-00889 REMOVE GVIW	STATION 2+57 12+70	RIM 909.65 908.65	7.60 8.40	IN ARBOR	SD &	MENT	щ	
	w-03 h-2	TYPE 01-00889 REMOVE GVIW 02-00520 HYDRANT REMOVAL	STATION 2+57 12+70	RIM 909.65 908.65	7.60 8.40	DF ANN ARBOR	SD &	MENT	PROFILE	0 3+35
920 915	w-03 h-2	TYPE 01-00889 REMOVE GVIW 02-00520 HYDRANT REMOVAL	STATION 2+57 12+70	RIM 909.65 908.65	7.60 8.40	ITY OF ANN ARBOR	SD &	MENT	PLAN & PROFILE	\ 0+00 TO 3+35
920	w-03 h-2	TYPE 01-00889 REMOVE GVIW 02-00520 HYDRANT REMOVAL	STATION 2+57 12+70	RIM 909.65 908.65	7.60 8.40	S - CITY OF ANN ARBOR	SD &	MENT	MAIN PLAN & PROFILE	ETT STA 0+00 TO 3+35
920 915	w-03 h-2	TYPE 01-00889 REMOVE GVIW 02-00520 HYDRANT REMOVAL	STATION 2+57 12+70	RIM 909.65 908.65	7.60 8.40	VICES - CITY OF ANN ARBOR	SD &	MENT	WATER MAIN PLAN & PROFILE	HEWETT STA 0+00 TO 3+35
920 915	w-03 h-2	TYPE 01-00889 REMOVE GVIW 02-00520 HYDRANT REMOVAL	STATION 2+57 12+70	RIM 909.65 908.65	7.60 8.40	SERVICES - CITY OF ANN ARBOR	SD &	MENT	WATER MAIN PLAN & PROFILE	HEWETT STA 0+00 TO 3+35
920 915 910	w-03 h-2	TYPE 01-00889 REMOVE GVIW 02-00520 HYDRANT REMOVAL	STATION 2+57 12+70	RIM 909.65 908.65	7.60 8.40	IBLIC SERVICES - CITY OF ANN ARBOR	SD &	MENT	WATER MAIN PLAN & PROFILE	HEWETT STA 0+00 TO 3+35
920 915 910	w-03 h-2	TYPE 01-00889 REMOVE GVIW 02-00520 HYDRANT REMOVAL	STATION 2+57 12+70	RIM 909.65 908.65	7.60 8.40	۵. '	SD &		WATER MAIN PLAN & PROFILE	HEWETT STA 0+00 TO 3+35
920 915 910 905	w-03 h-2	TYPE 01-00889 REMOVE GVIW 02-00520 HYDRANT REMOVAL	STATION 2+57 12+70	RIM 909.65 908.65	7.60 8.40	l.'	HEWETT DR, RUSSELL RD, RUSSETT RD &	MENT	WATER MAIN PLAN & PROFILE	HEWETT STA 0+00 TO 3+35
920 915 910 900 900	w-03 h-2	TYPE 01-00889 REMOVE GVIW 02-00520 HYDRANT REMOVAL	STATION 2+57 12+70	RIM 909.65 908.65	7.60 8.40	NAGEMENT -	SD &	MENT	WATER MAIN PLAN & PROFILE	HEWETT STA 0+00 TO 3+35
920 915 910 905	w-03 h-2	TYPE 01-00889 REMOVE GVIW 02-00520 HYDRANT REMOVAL	STATION 2+57 12+70	RIM 909.65 908.65	7.60 8.40	T MANAGEMENT -	PROFILE: 1" = 4' HEWETT DR, RUSSELL RD, RUSSETT RD &	MENT	WATER MAIN PLAN & PROFILE	HEWETT STA 0+00 TO 3+35
920 915 910 900 900	w-03 h-2	TYPE 01-00889 REMOVE GVIW 02-00520 HYDRANT REMOVAL	STATION 2+57 12+70	RIM 909.65 908.65	7.60 8.40	T MANAGEMENT -	PROFILE: 1" = 4' HEWETT DR, RUSSELL RD, RUSSETT RD &	REDEEMER AVE WATER MAIN REPLACEMENT		
920 915 905 900 895	w-03 h-2	TYPE 01-00889 REMOVE GVIW 02-00520 HYDRANT REMOVAL	STATION 2+57 12+70	RIM 909.65 908.65	7.60 8.40	T MANAGEMENT -	HEWETT DR, RUSSELL RD, RUSSETT RD &	REDEEMER AVE WATER MAIN REPLACEMENT		2013034-10 HEWETT STA 0+00 TO 3+35

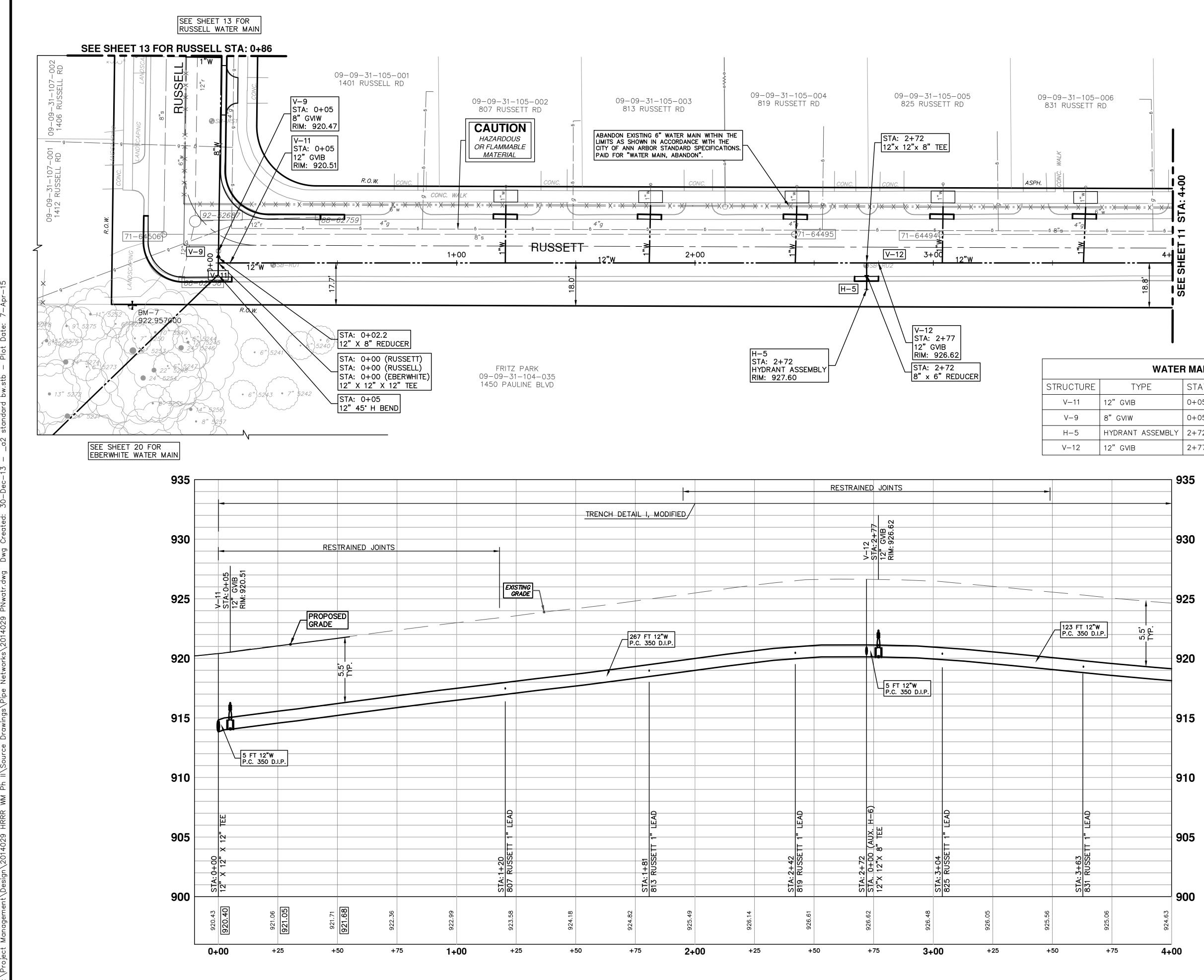


SEE SHEET 11 FOR RUSSETT WATER M.

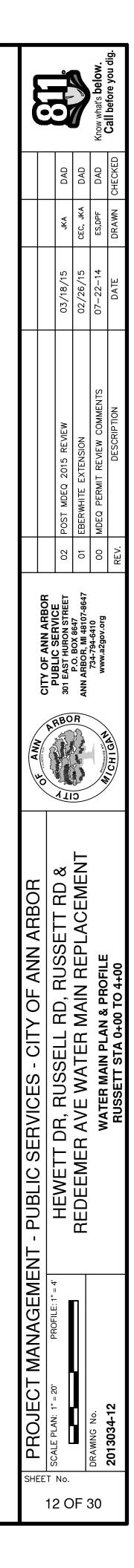


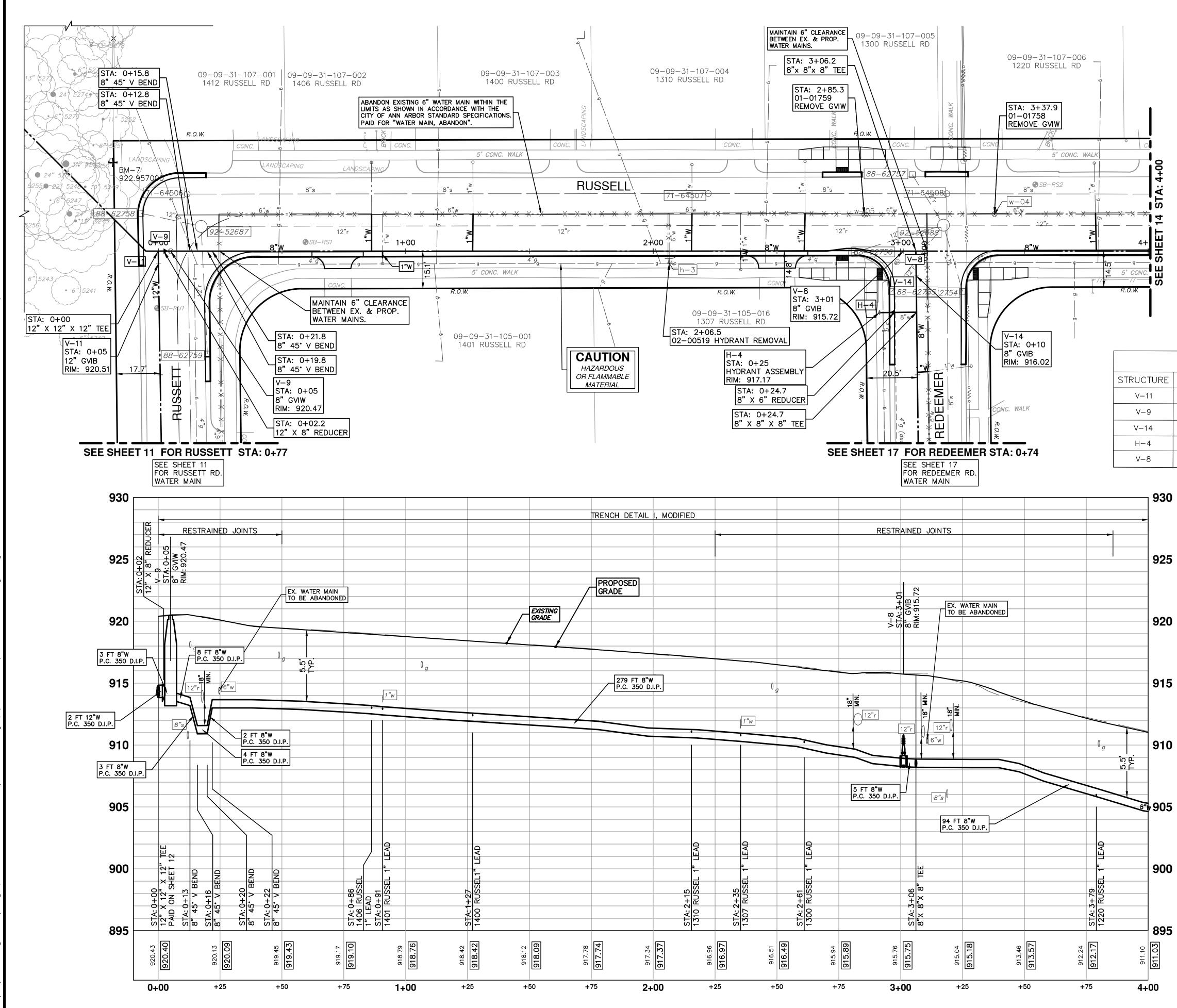


L.				Know what's below.	Call before you dig.
		DAD	DAD	DAD	DRAWN CHECKED
		JKA	CEC, JKA	ES,DPF	DRAWN
		03/18/15	02/26/15	07-22-14	DATE
		02 POST MDEQ 2015 REVIEW	01 EBERWHITE EXTENSION	00 MDEQ PERMIT REVIEW COMMENTS	EV. DESCRIPTION
				ŏ	REV
OF ANN CITY OF ANN ABBOB		E 301 EAST HURON STREET	O 20 8647 ANN ARBOR, MI 48107-8647	734-794-6410 WWW.a2gov.org	CHIGA
NAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR		HEWELL DR, RUSSELL RD, RUSSELL RD &	REDEEMER AVE WATER MAIN REPLACEMENT	WATER MAIN PLAN & PROFILE	RUSSETT STA 4+00 TO 5+89
NAGEMENT	PROFILE: 1" = 4'				
ROJECT MAN	H SCALF PLAN: 1" = 20'	No.		DRAWING No.	2013034-11



WATER MAIN STRUCTURE TABLE								
TYPE	STATION	ALIGNMENT	RIM	DEPTH				
/IB	0+05	Pr Water Russett	920.51	6.46				
W	0+05	Pr Water Russell-Hewett Loop	920.47	6.80				
NT ASSEMBLY	2+72	Pr Water Russett	927.60	7.02				
/IB	2+77	Pr Water Russett	926.62	6.50				





SEE SHEET 14 FOR RUSSELL RD./HEWETT
RUSSELL RD./HEWETT
RD. WATER MAIN

					Know what's below.	Call before you dig.
			DAD	DAD	DAD	CHECKED
			JKA	CEC, JKA	ES,DPF	DRAWN
			03/18/15	02/26/15	07-22-14	DATE
			POST MDEQ 2015 REVIEW	EBERWHITE EXTENSION	MDEQ PERMIT REVIEW COMMENTS	DESCRIPTION
			02	10	8	REV.
920.51 6. 920.47 6. 916.02 7. 917.17 8. 915.72 7.	EPTH 46 80 02 65 47 EPTH	ANN	E MARTINE AND	R	734-794-6410 Www.a2gov.org	V/CHIGA
	21 55 97	MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR	HEWETT DR, RUSSELL RD, RUSSETT RD &	REDEEMER AVE WATER MAIN REPLACEMENT	WATER MAIN PLAN & PROFILE	RUSSELL - HEWETT LOOP STA 0+00 TO 4+00
		PROJECT	0 SCALE FLAN: I = 20 FNOFILE: I = 4		DRAWING No.	2013034-13

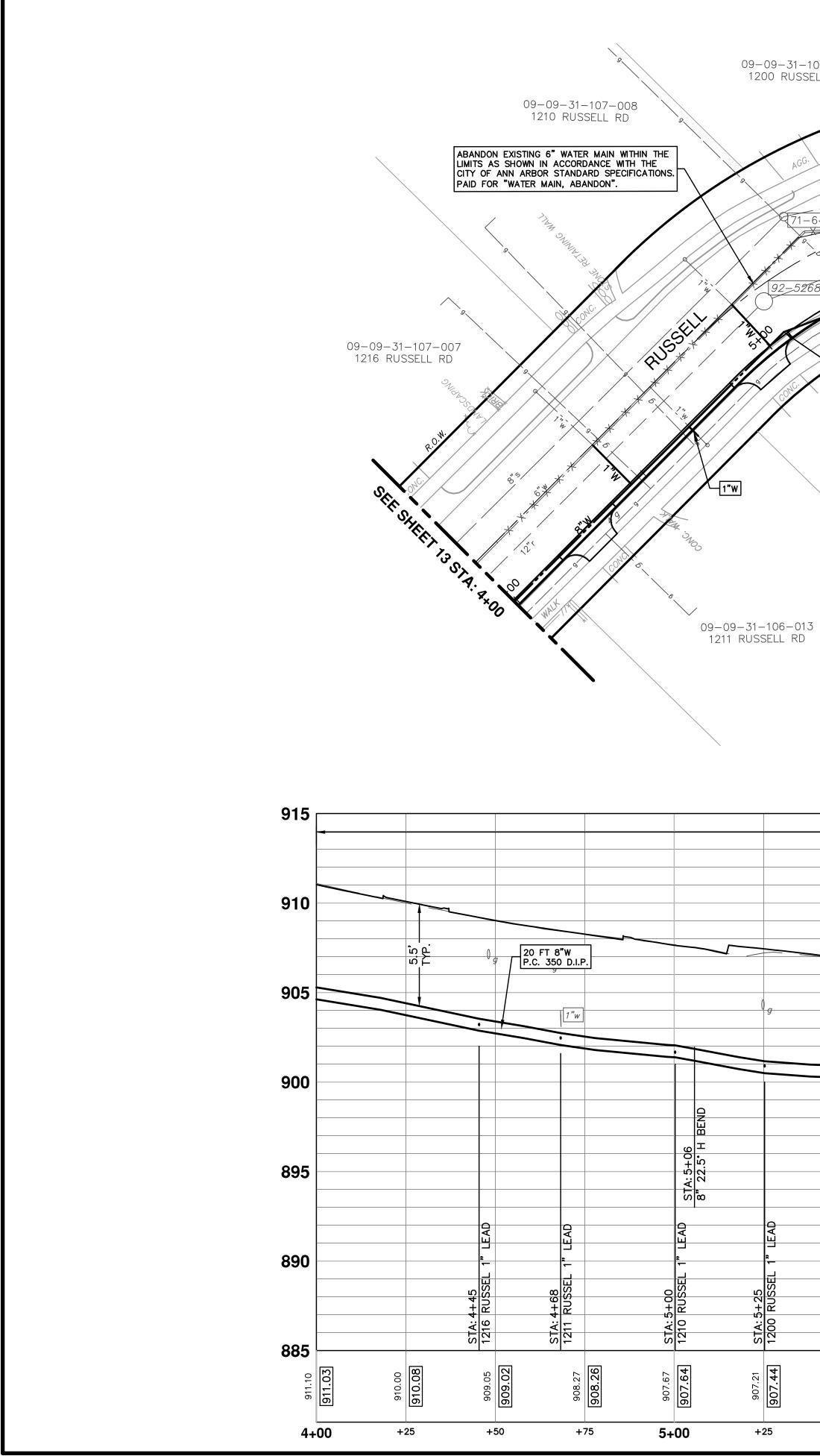
13 OF 30

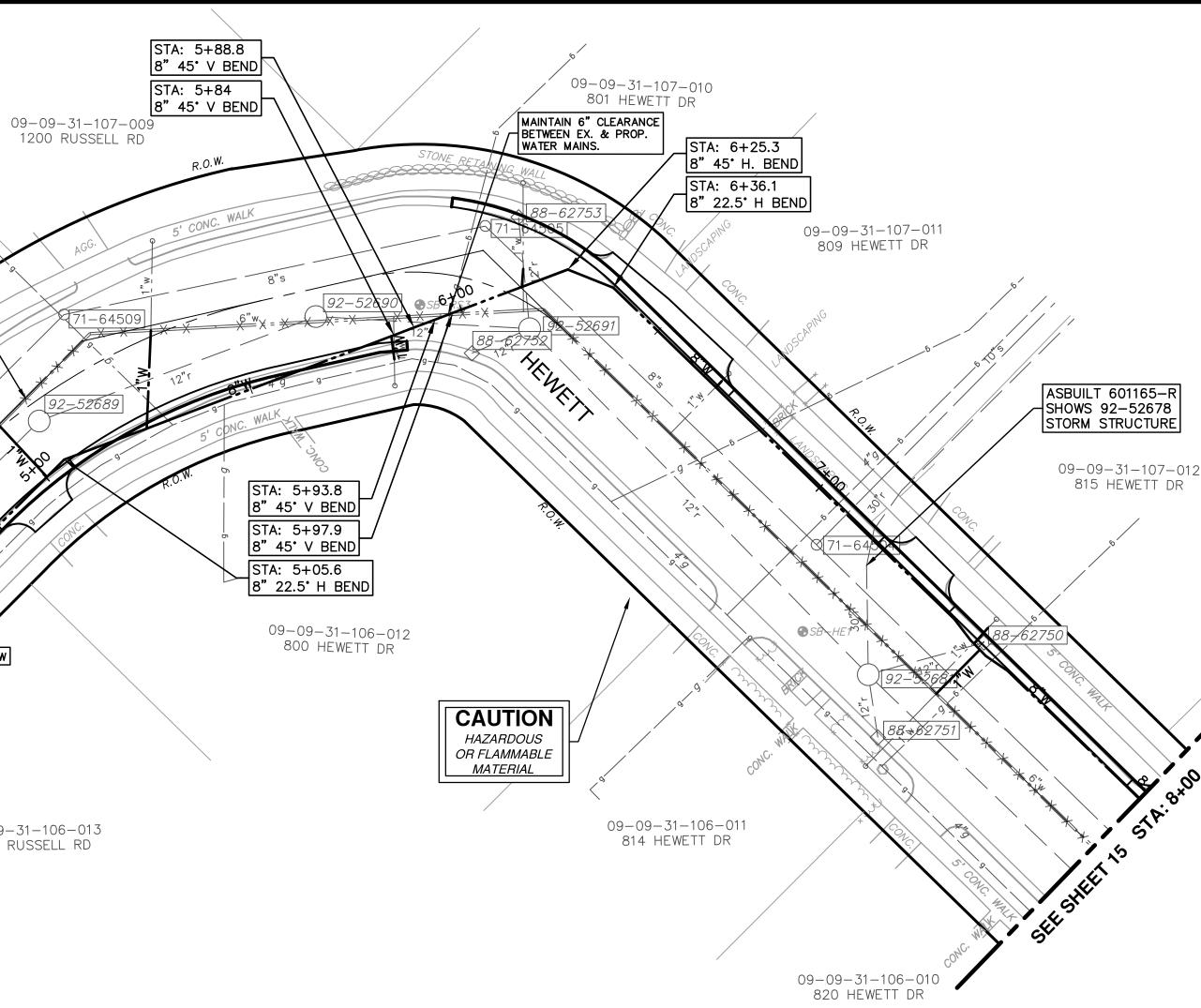
WATER MAIN STRUCTURE TABLE					
TYPE	STATION	ALIGNMENT			
0) # D	0.05				

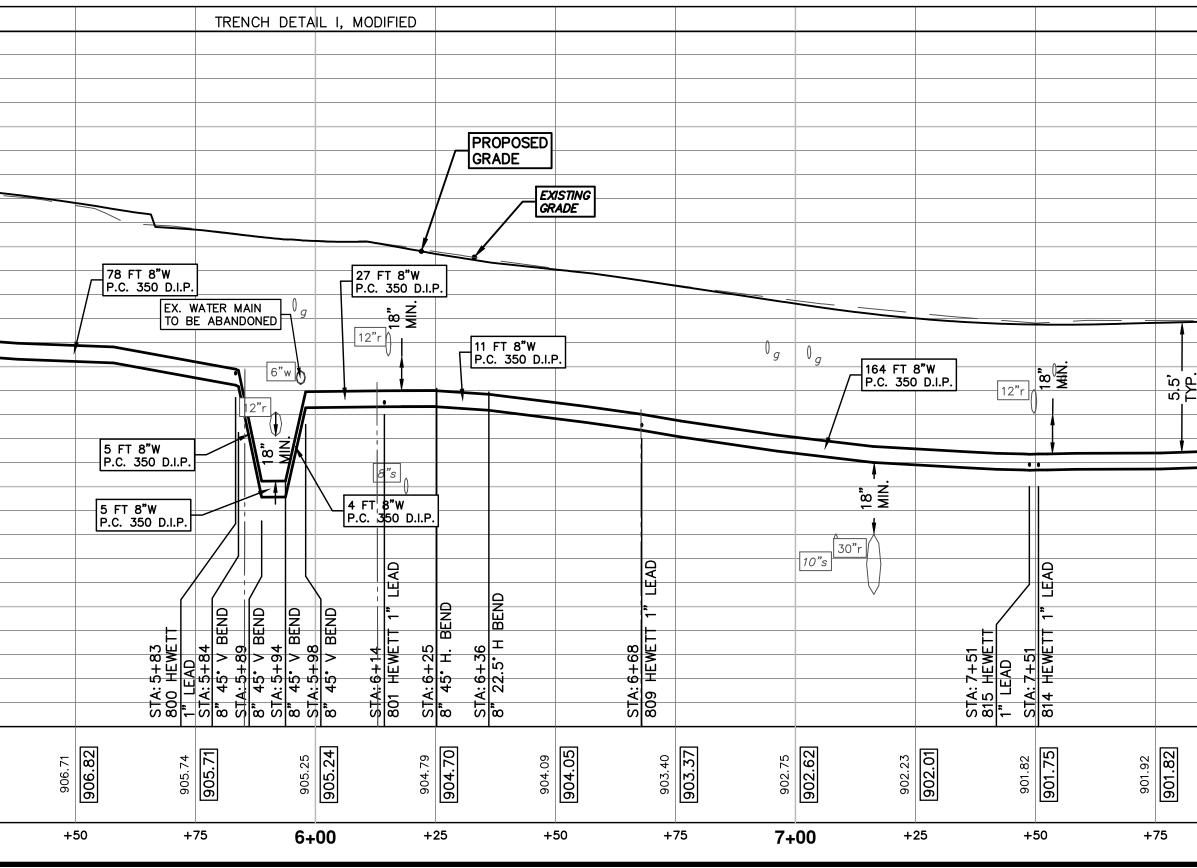
12" GVIB	0+05	Pr Water Russett	920.51	6.46
8"GVIW	0+05	Pr Water Russell-Hewett Loop	920.47	6.80
8" GVIB	0+10	Pr Water Redeemer N	916.02	7.02
HYDRANT ASSEMBLY	0+25	Pr Water Redeemer N	917.17	8.65
8"GVIB	3+01	Pr Water Russell-Hewett Loop	915.72	7.47

EX-WATER MAIN STRUCTURE TABLE

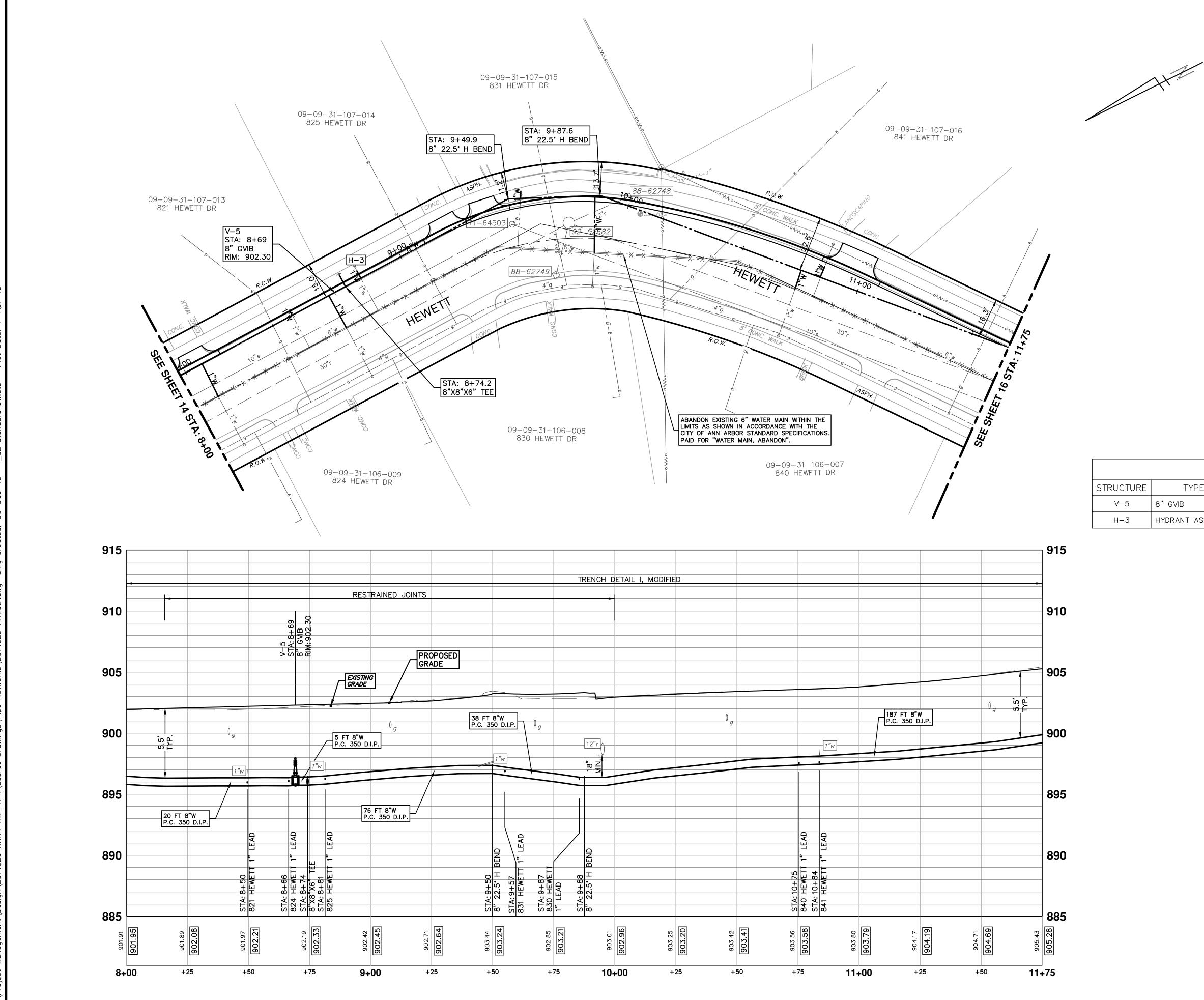
0	STRUCTURE	TYPE	STATION	RIM	DEPTH
	h-3	02-00519 HYDRANT REMOVAL	2+07	917.88	8.21
	w-05	01-01759 REMOVE GVIW	2+85	916.14	8.55
5	w-04	01-01758 REMOVE GVIW	3+38	914.37	7.97







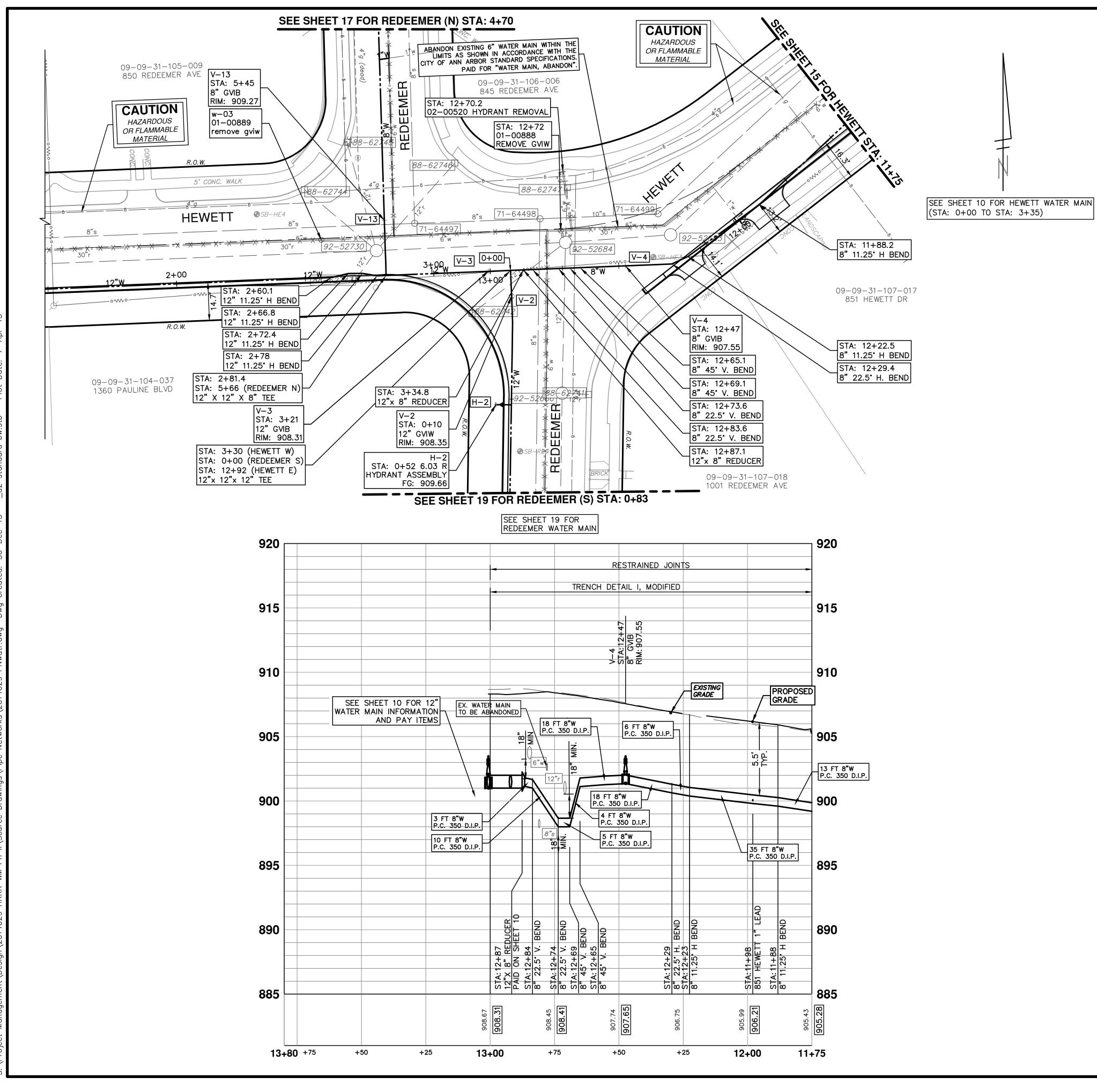
		E			Know what's below. Call before you dig.
			DAD		N CHECKED
			JKA	CEC, JKA	ES,DPF DRAWN
			03/18/15	02/26/15	07-22-14 DATE
2			02 POST MDEQ 2015 REVIEW	EBERWHITE EX	00 MDEQ PERMIT REVIEW COMMENTS REV. DESCRIPTION
0				P.O. BOX 864/ ANN ARBOR, MI 48107-8647 734-794-6410	www.a2gov.org
		OF ANN	RBO /		IN CHIGAN
	915		TT RD &	ACEMENT	C
	910	OF ANN A	RD, RUSSE	AAIN REPL	& PROFILE CTA 4+00 TO 8.
	905	ICES - CITY	RUSSELL F	/E WATER N	WATER MAIN PLAN & PROFILE BIISSELL - HEWETT LOOP STA 4+00 TO 8+00
	900	ር	HEWETT DR, RUSSELL RD, RUSSETT RD	REDEEMER AVE WATER MAIN REPLACEMEN	M M
	895	EMENT -			
	890	L MAN	-		
901.91	885	PROJEC	SUALE PLAN: 1" = 20"	DRAWING NO.	2013034-14
ة 8+		SHEET	No.	F 3	



STRUCTURE

					×	KED Call before you dig.
			A DAD	JKA DAD	PF DAD	DRAWN CHECKED
			JKA	CEC, JKA	ES,DPF	DRA
			03/18/15	02/26/15	07-22-14	DATE
			02 POST MDEQ 2015 REVIEW	01 EBERWHITE EXTENSION	00 MDEQ PERMIT REVIEW COMMENTS	DESCRIPTION
			02		8	REV.
	CITY OF ANN ARROR		301 EAST HURON STREET	P.O. BOX 8647 ANN ARBOR, MI 48107-8647	734-794-6410 www.a2gov.org	
ANA	O FOUNDED 1924	A	18C		A POORDAATED AV	ALCHI GA
VAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR	10		HEWELL DH, HUSSELL HD, HUSSELL HD & /2/	REDEEMER AVE WATER MAIN REPLACEMENT	WATER MAIN PI AN & PROFILE	0 11+75

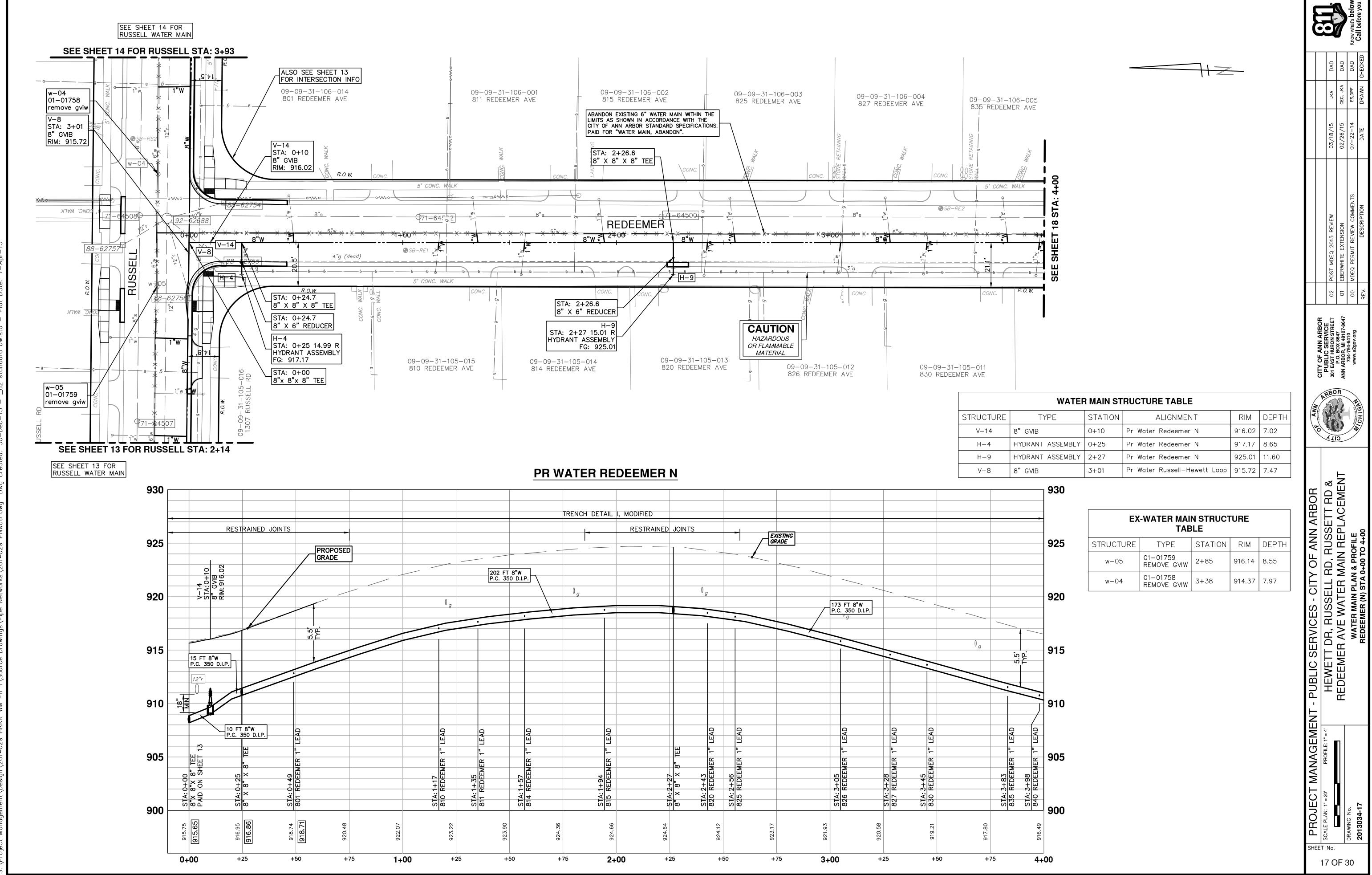
WATER MAIN STRUCTURE TABLE								
TYPE	STATION	ALIGNMENT	RIM	DEPTH				
8"GVIB	8+69	Pr Water Russell-Hewett Loop	902.30	6.57				
HYDRANT ASSEMBLY	8+74	Pr Water Russell-Hewett Loop	902.99	9.18				



	WATER MAIN STRUCTURE TABLE									
STRUCTURE	TYPE	STATION	ALIGNMENT	RIM	DEPTH					
V-2	12" GVIW	0+10	Pr Water Redeemer S	908.35	7.35					
H-2	HYDRANT ASSEMBLY	0+52	Pr Water Redeemer S	909.66	8.99					
V-13	8" GVIB	5+45	Pr Water Redeemer N	909.27	5.58					
V-4	8" GVIB	12+47	Pr Water Russell-Hewett Loop	907.55	6.21					
V-3	12" GVIB	13+01	Pr Water Russell—Hewett Loop	908.31	7.31					

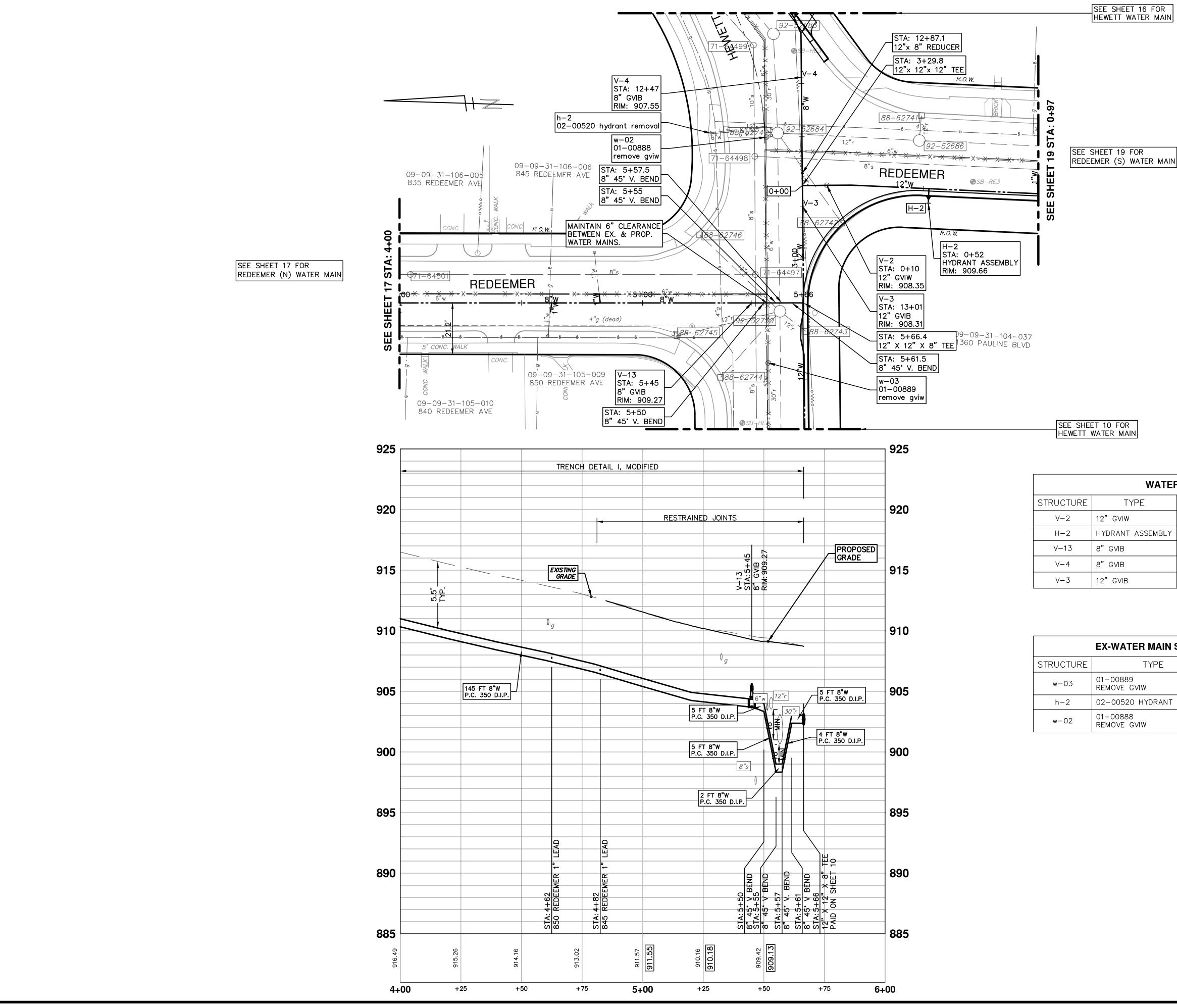
EX-WATER MAIN STRUCTURE TABLE							
STRUCTURE	TYPE	STATION	RIM	DEPTH			
w-03	01-00889 REMOVE GVIW	2+57	909.65	7.60			
h-2	02-00520 HYDRANT REMOVAL	12+70	908.65	8.40			
w-02	01-00888 REMOVE GVIW	12+72	908.17	8.38			

				×	(ED Call before you dig.
		DAD	A DAD	DAD	DRAWN CHECKED
		JKA	CEC, JKA	ES,DPF	DRAWN
		03/18/15	02/26/15	07-22-14	DATE
		02 POST MDEQ 2015 REVIEW	I EBERWHITE EXTENSION	00 MDEQ PERMIT REVIEW COMMENTS	V. DESCRIPTION
		02	0	8	REV.
AMA		301 EAST HURON STREET	P.O. BOX 8647 ANN ARBOR, MI 48107-8647	734-794-6410 www.a2gov.org	
	10			AN MODIFICIAL OF	ALCHIGH.
NAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR		HEWELL DR, RUSSELL RD, RUSSELL RD & $ \vec{F} $	REDEEMER AVE WATER MAIN REPLACEMENT	WATER MAIN PLAN & PROFILE	D 12+87



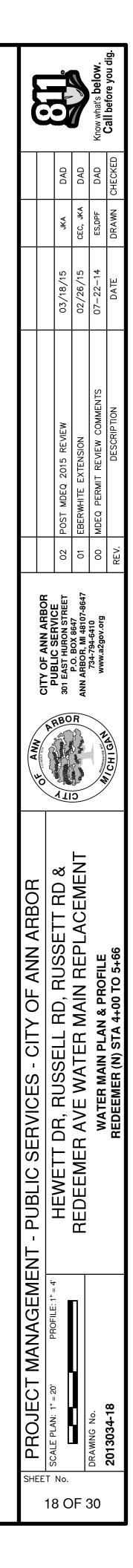
202 F	8"W	TRENCH DETAIL	I, MODIFIED RESTRAINED	JOINTS		XISTING RADE			
P.C. 3	50 D.I.P.	•		0 g			173 FT 8"W P.C. 350 D.I.P.		l l l l l l l l l l l l l l l l l l l
811 REDEEMER 1" LEAD	STA: 1+57 814 REDEEMER 1" LEAD	STA: 1+94 815 REDEEMER 1" LEAD		8" X 8" X 8" TEE 8" X 8" X 8" TEE 820 REDEEMER 1" LEAD	STA: 2+56 825 REDEEMER 1" LEAD		STA: 3+05 826 REDEEMER 1" LEAD	STA: 3+28 827 REDEEMER 1" LEAD STA: 3+45 830 REDEEMER 1" LEAD	
- 		•99.476 +75 2 -	924.64	924.12		۶6.126 75 3 -1	9 20.58	919.21	08. ² 16 50 +75

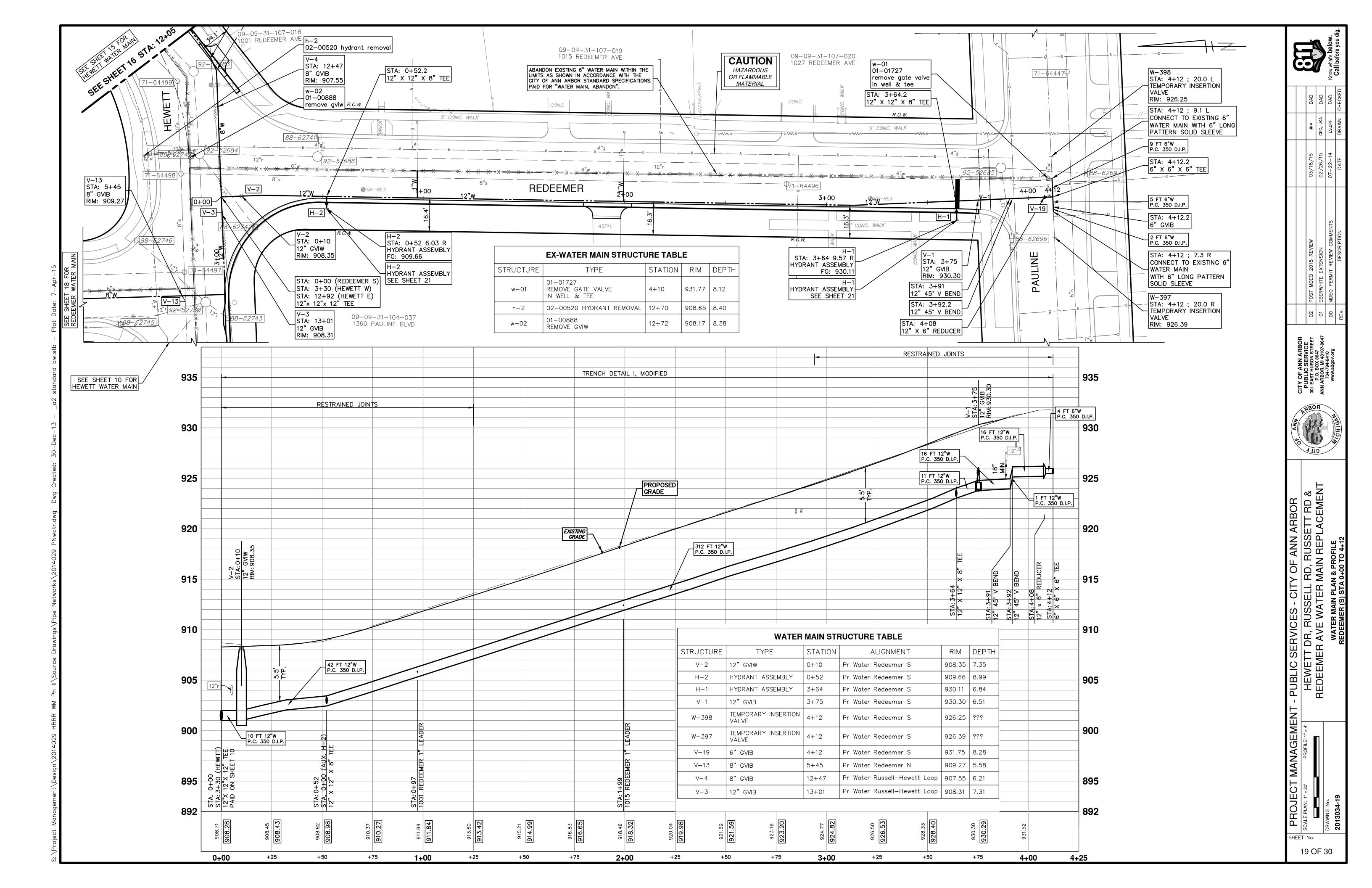
	WATER MAIN STRUCTURE TABLE									
	TYPE	TYPE	STATION	ALIGNMENT	RIM	DEPTH				
GVIB 0+10 Pr Water Redeemer N 916.02 7.02	IB	GVIB	0+10	Pr Water Redeemer N	916.02	7.02				
YDRANT ASSEMBLY 0+25 Pr Water Redeemer N 917.17 8.65	NT ASSEMBLY	DRANT AS	0+25	Pr Water Redeemer N	917.17	8.65				
YDRANT ASSEMBLY 2+27 Pr Water Redeemer N 925.01 11.60	NT ASSEMBLY	DRANT AS	2+27	Pr Water Redeemer N	925.01	11.60				
'GVIB 3+01 Pr Water Russell-Hewett Loop 915.72 7.47	IB	GVIB	3+01	Pr Water Russell-Hewett Loop	915.72	7.47				

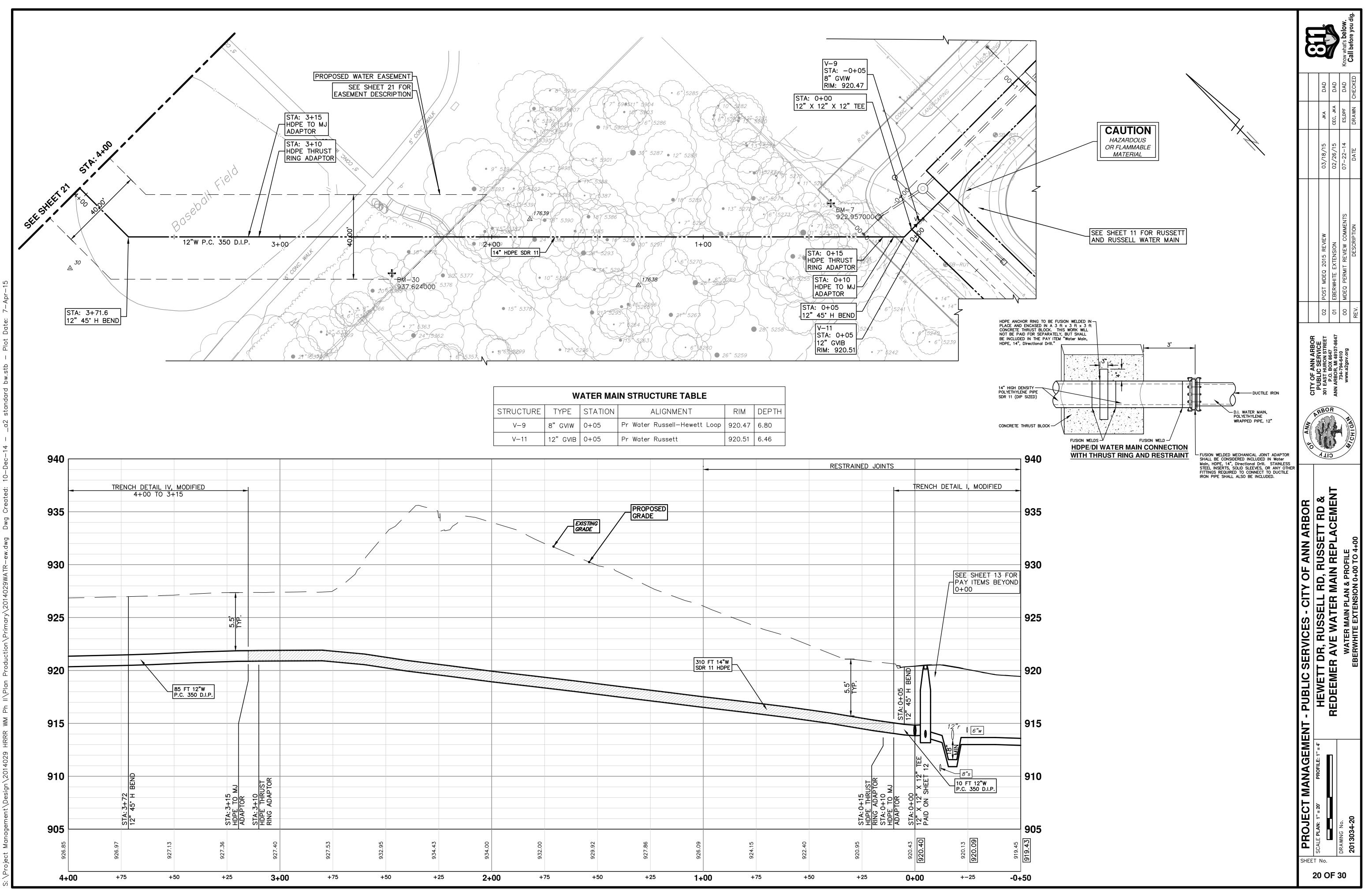


WATER MAIN STRUCTURE TABLE									
YPE	STATION	ALIGNMENT	RIM	DEPTH					
I	0+10	Pr Water Redeemer S	908.35	7.35					
Γ ASSEMBLY	0+52	Pr Water Redeemer S	909.66	8.99					
	5+45	Pr Water Redeemer N	909.27	5.58					
	12+47	Pr Water Russell-Hewett Loop	907.55	6.21					
	13+01	Pr Water Russell-Hewett Loop	908.31	7.31					

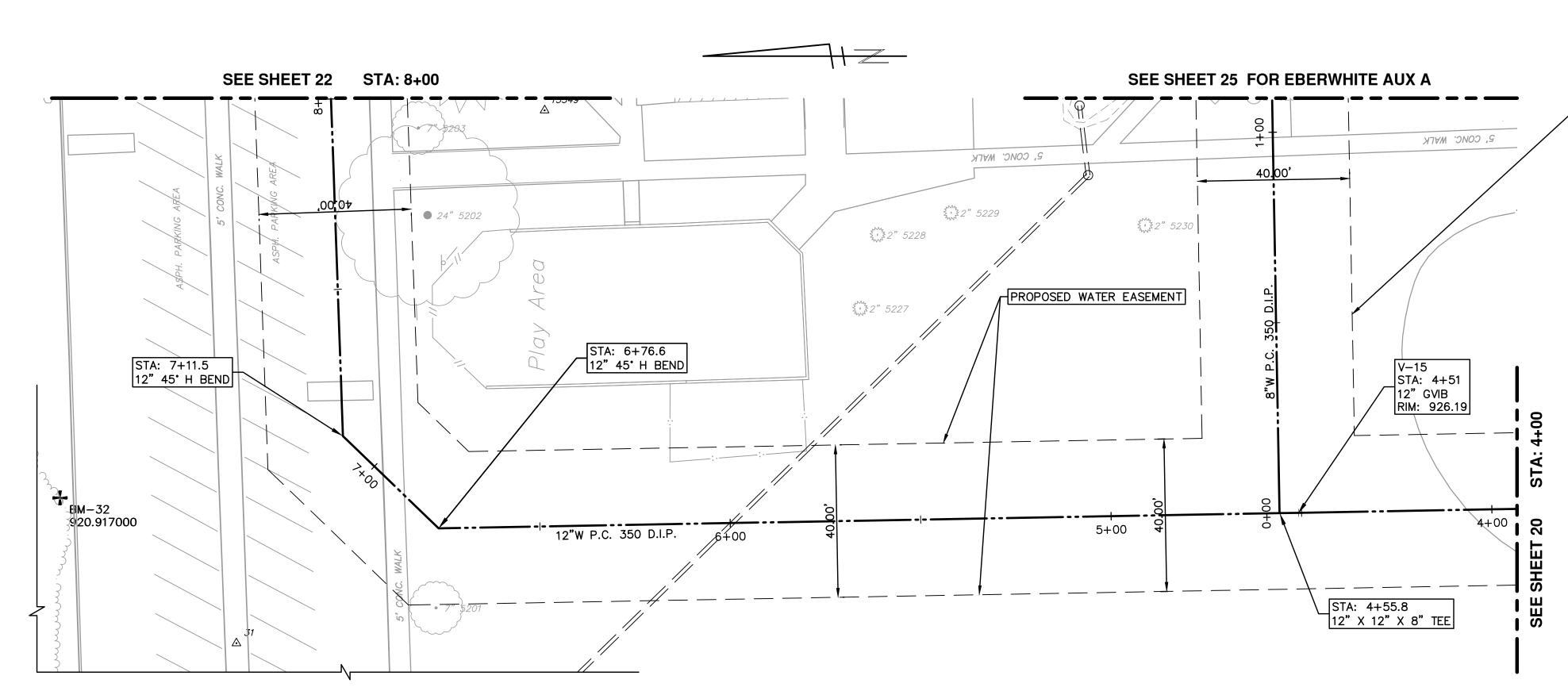
ER MAIN STRUCTURE TABLE								
TYPE	STATION	RIM	DEPTH					
€ GVIW	2+57	909.65	7.60					
O HYDRANT REMOVAL	12+70	908.65	8.40					
3 GVIW	12+72	908.17	8.38					

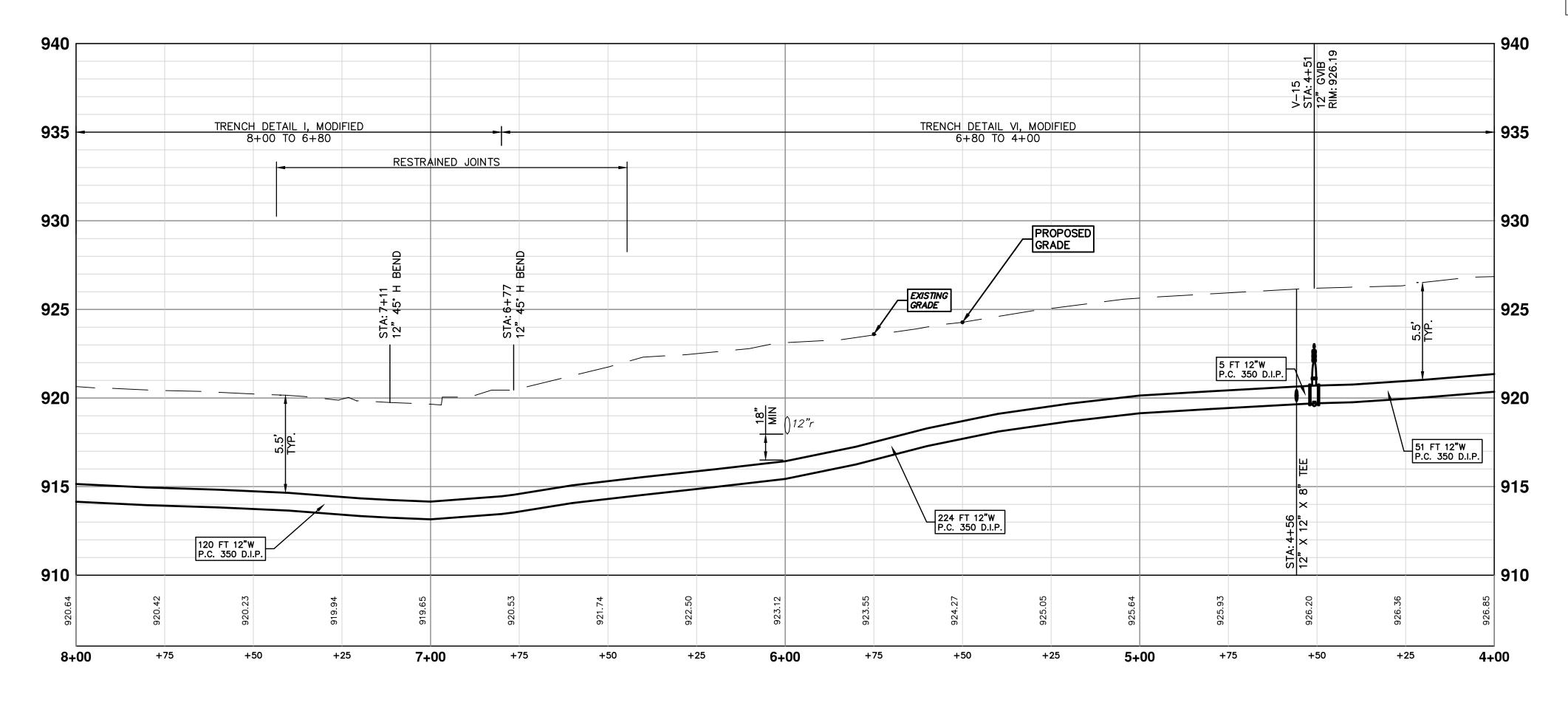






WATER MAIN STRUCTURE TABLE							
STRUCTURE	TYPE	STATION	ALIGNMENT	RIM	DEPTH		
V-9	8"GVIW	0+05	Pr Water Russell-Hewett Loop	920.47	6.80		
V-11	12" GVIB	0+05	Pr Water Russett	920.51	6.46		

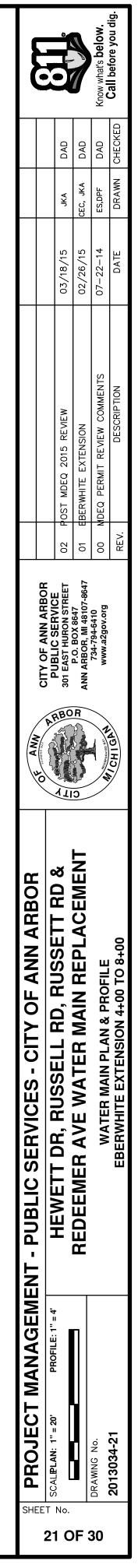


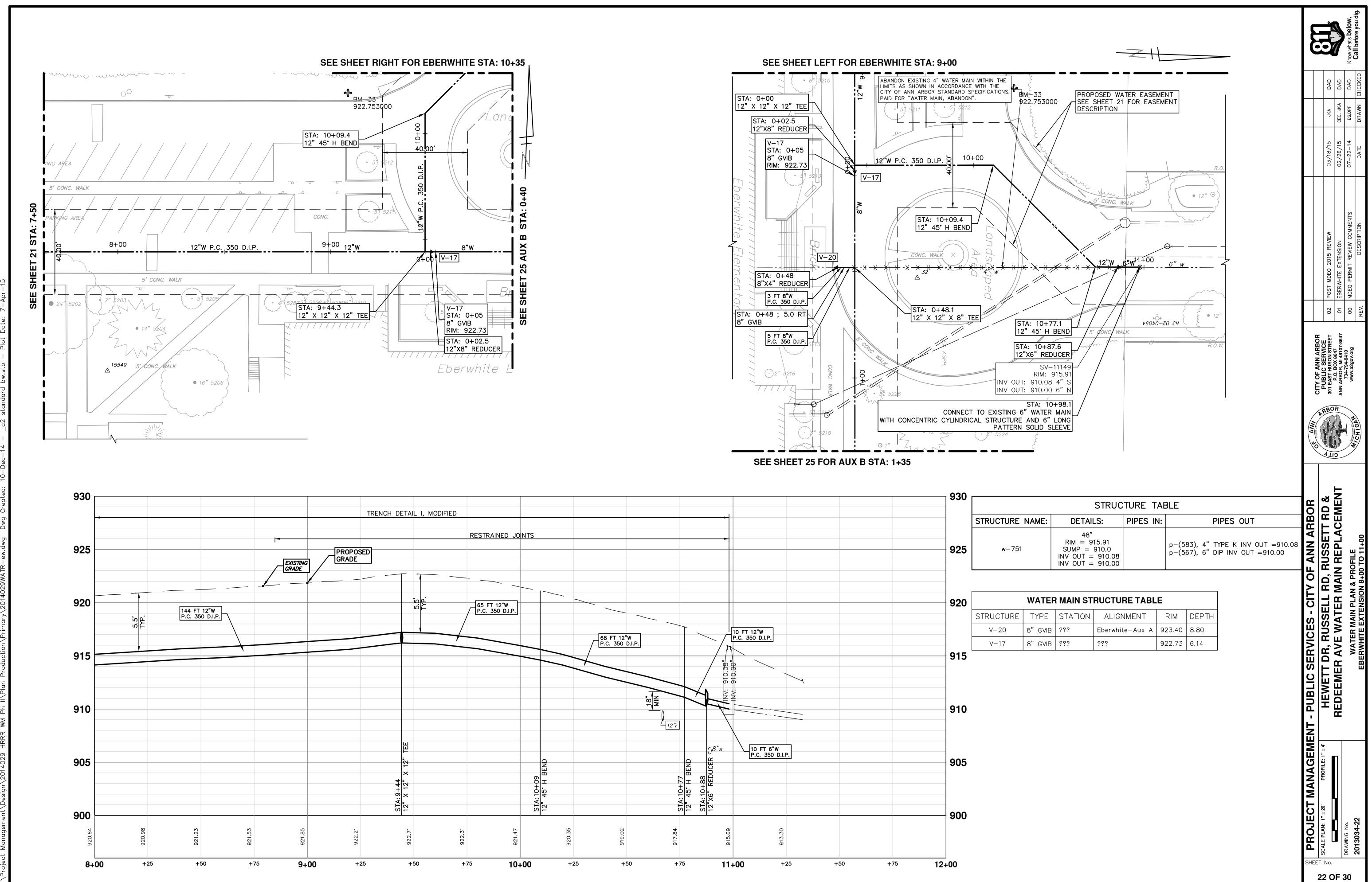


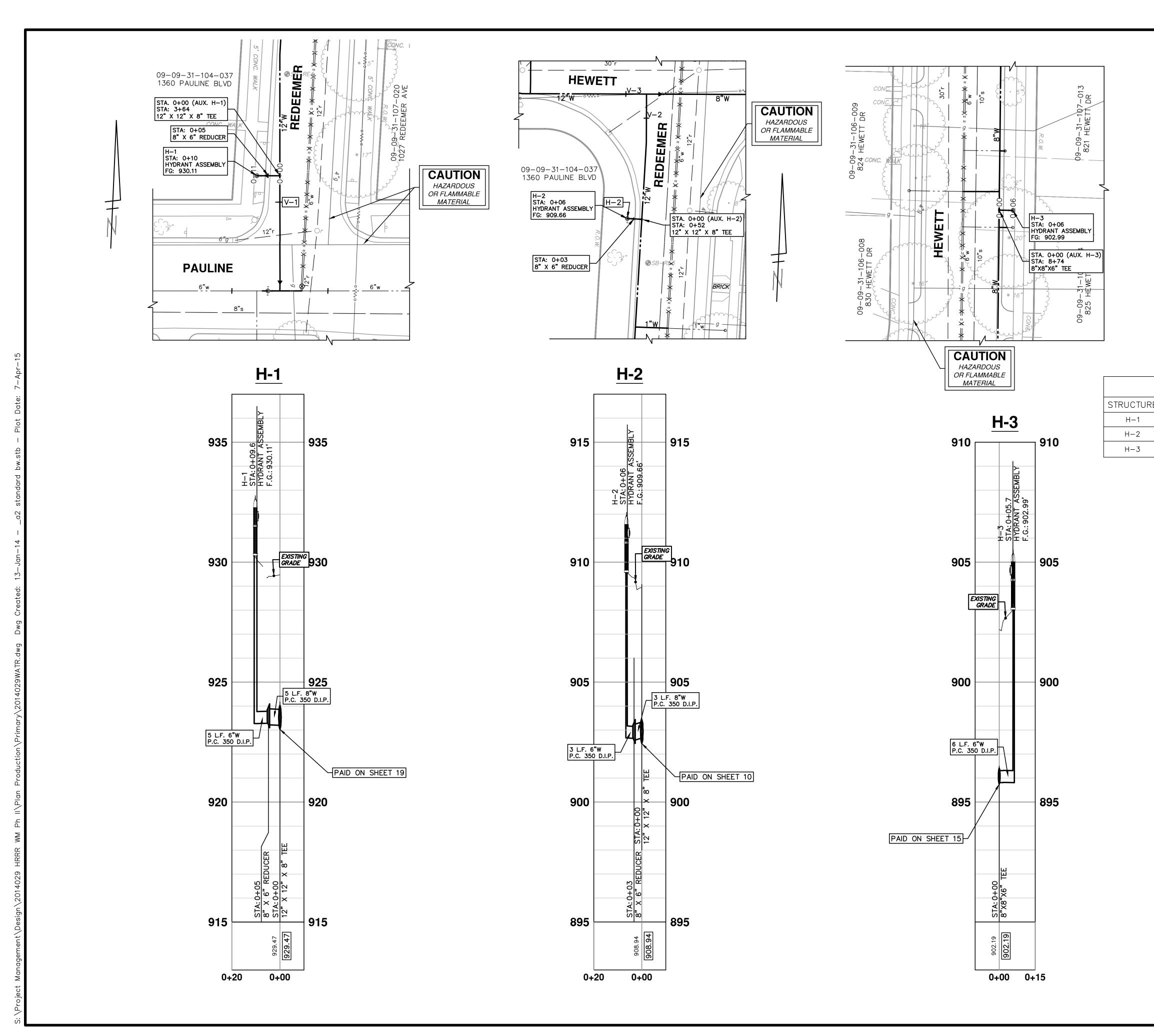
ANN ARBOR PUBLIC SCHOOLS-EBERWHITE ELEMENTARY WATERMAIN EASEMENT (09-09-30-420-013)

A PARCEL OF LAND BEING PART OF THE SOUTHEAST 1/4 OF SECTION 30, TOWN 2 SOUTH, RANGE 6 EAST, CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN, DESCRIBED AS COMMENCING AT THE SOUTH 1/4 CORNER OF SAID SECTION 30; THENCE ALONG THE SOUTH LINE OF SAID SECTION 30, SOUTH 89'21'30" EAST 1330.00 FEET TO THE POINT OF BEGINNING; THENCE NORTH 44"11'34" WEST 137.83 FEET; THENCE NORTH 00'48'26" EAST 321.54 FEET; THENCE NORTH 45'48'26" EAST 51.25 FEET; THENCE NORTH 89'48'53" EAST 220.93 FEET; THENCE NORTH 00'11'07" WEST 53.38 FEET; THENCE NORTH 44'48'53" EAST 64.20 FEET; THENCE NORTH 00"11'14" EAST 8.75 FEET; THENCE ALONG THE SOUTH LINE OF EBERWHITE FIRST ADDITION AS RECORDED IN LIBER 3 OF PLATS, PAGES 13 & 14 OF THE WASHTENAW COUNTY RECORDS, SOUTH 89°25'35" EAST 40.00 FEET; THENCE SOUTH 00"11'14" WEST 24.90 FEET; THENCE SOUTH 44'48'53" WEST 64.05 FEET; THENCE SOUTH 00'11'07" EAST 36.81 FEET; THENCE NORTH 89'48'53" EAST 150.00 FEET; THENCE SOUTH 00'11'07" EAST 40.00 FEET; THENCE SOUTH 89'48'53" WEST 394.76 FEET; THENCE SOUTH 45°48'26" WEST 18.52 FEET; THENCE SOUTH 00°48'26" WEST 192.54 FEET; THENCE SOUTH 89"11'34" EAST 135.00 FEET; THENCE SOUTH 00'48'26" WEST 40.00 FEET; THENCE NORTH 89'11'34" WEST 135.00 FEET; THENCE SOUTH 00'48'26" WEST 55.86 FEET; THENCE SOUTH 44"11'34" EAST 161.03 FEET; THENCE ALONG THE SOUTH LINE OF SAID SECTION 30, NORTH 89'21'30" WEST 56.41 FEET TO THE POINT OF BEGINNING. CONTAINING 46126.93 SQUARE FEET OF LAND. SUBJECT TO THE RIGHTS OF THE PUBLIC AND OF ANY GOVERNMENTAL UNIT IN ANY PART THEREOF, USED, TAKEN OR DEEDED FOR STREET, ROAD OR HIGHWAY PURPOSES. SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.

WATER MAIN STRUCTURE TABLE							
STRUCTURE TYPE STATION ALIGNMENT RIM DEPTH							
V-15	12" GVIB	4+51	Eberwhite	926.19	6.49		



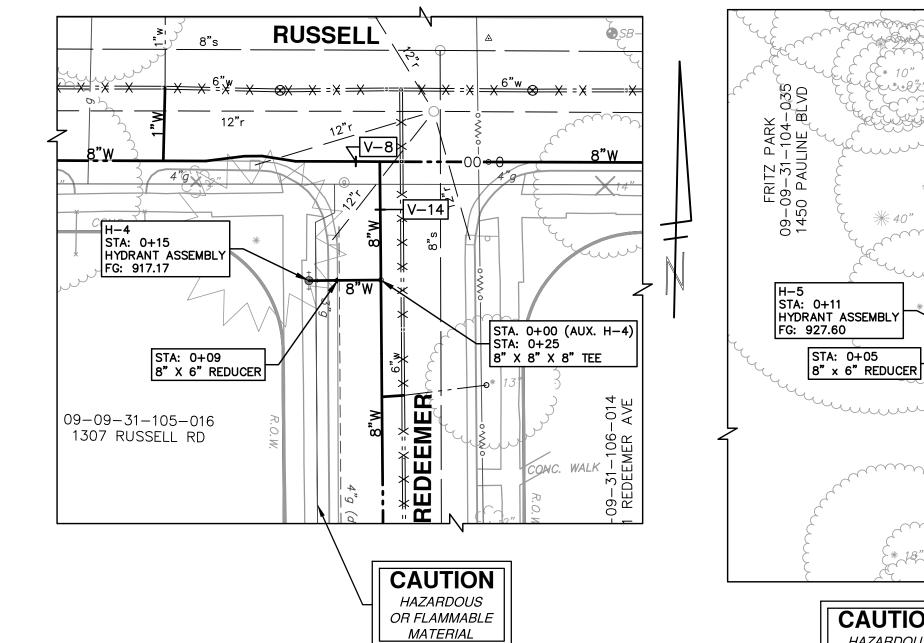


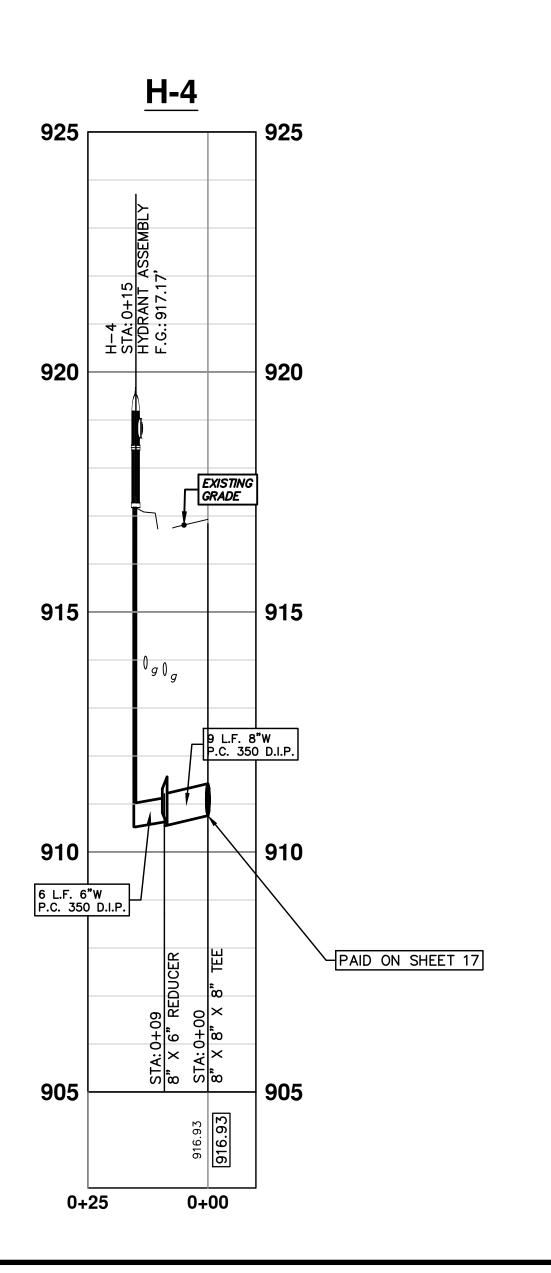


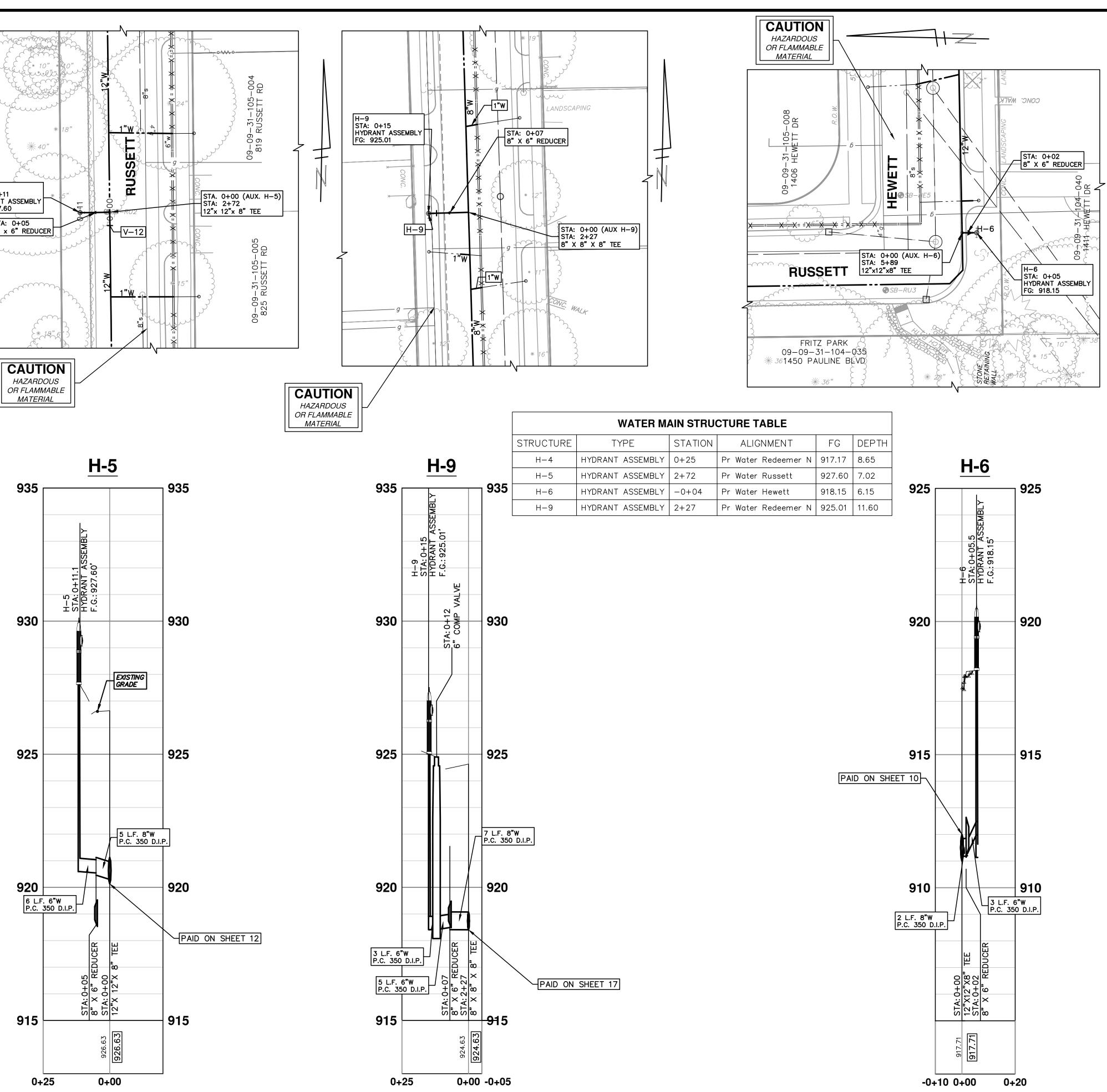
PROJECT MANGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR Image: Service intervise	03/18/15 02/26/15 02/26/15 02/26/15 02/26/15 00/07-22-14
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WATER MAIN STRUCTURE TABLE

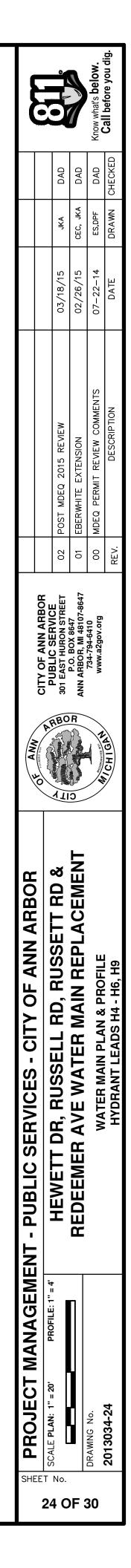
RE	TYPE	STATION	ALIGNMENT	FG	DEPTH
	HYDRANT ASSEMBLY	3+64	Pr Water Redeemer S	930.11	6.84
	HYDRANT ASSEMBLY	0+52	Pr Water Redeemer S	909.66	8.99
	HYDRANT ASSEMBLY	8+74	Pr Water Russell-Hewett Loop	902.99	9.18

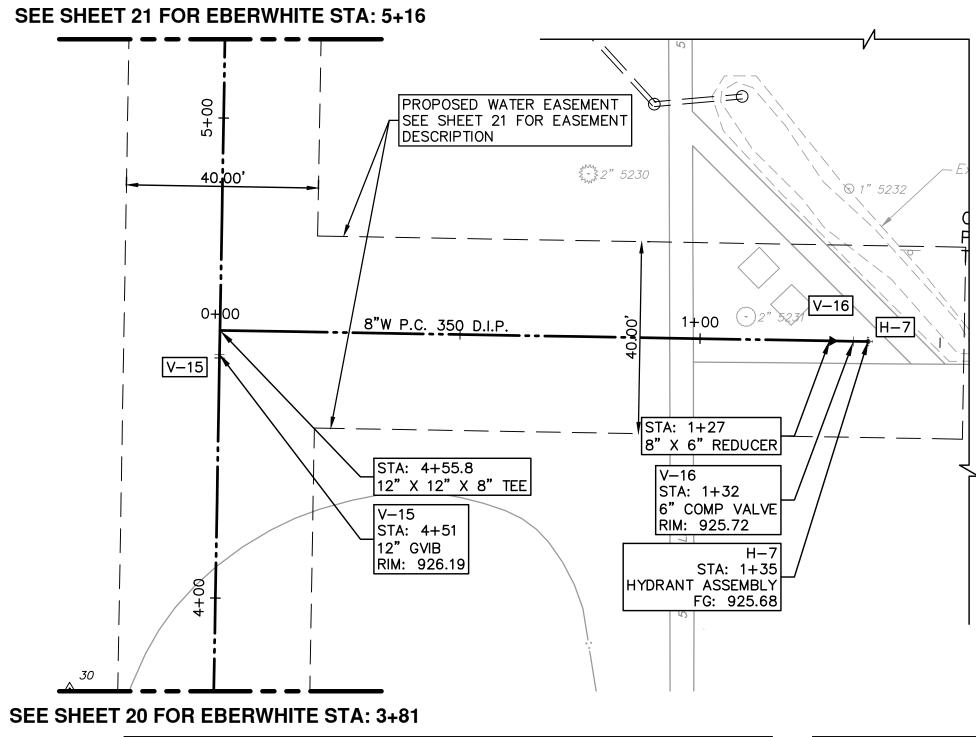






Г	FG	DEPTH
ner N	917.17	8.65
t	927.60	7.02
	918.15	6.15
ner N	925.01	11.60

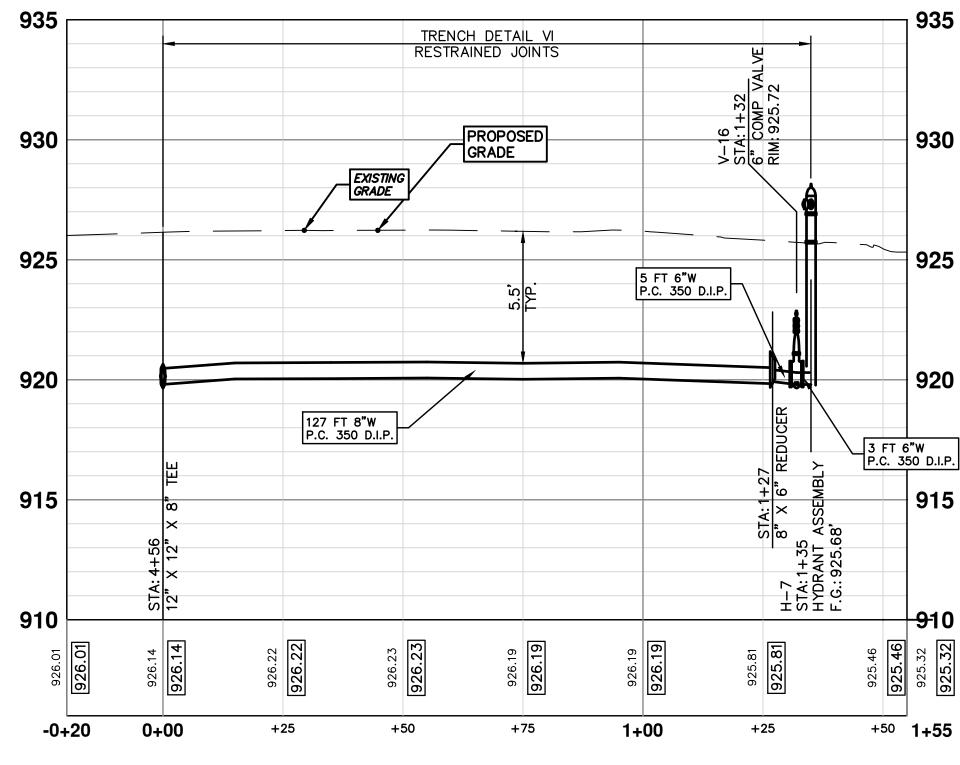


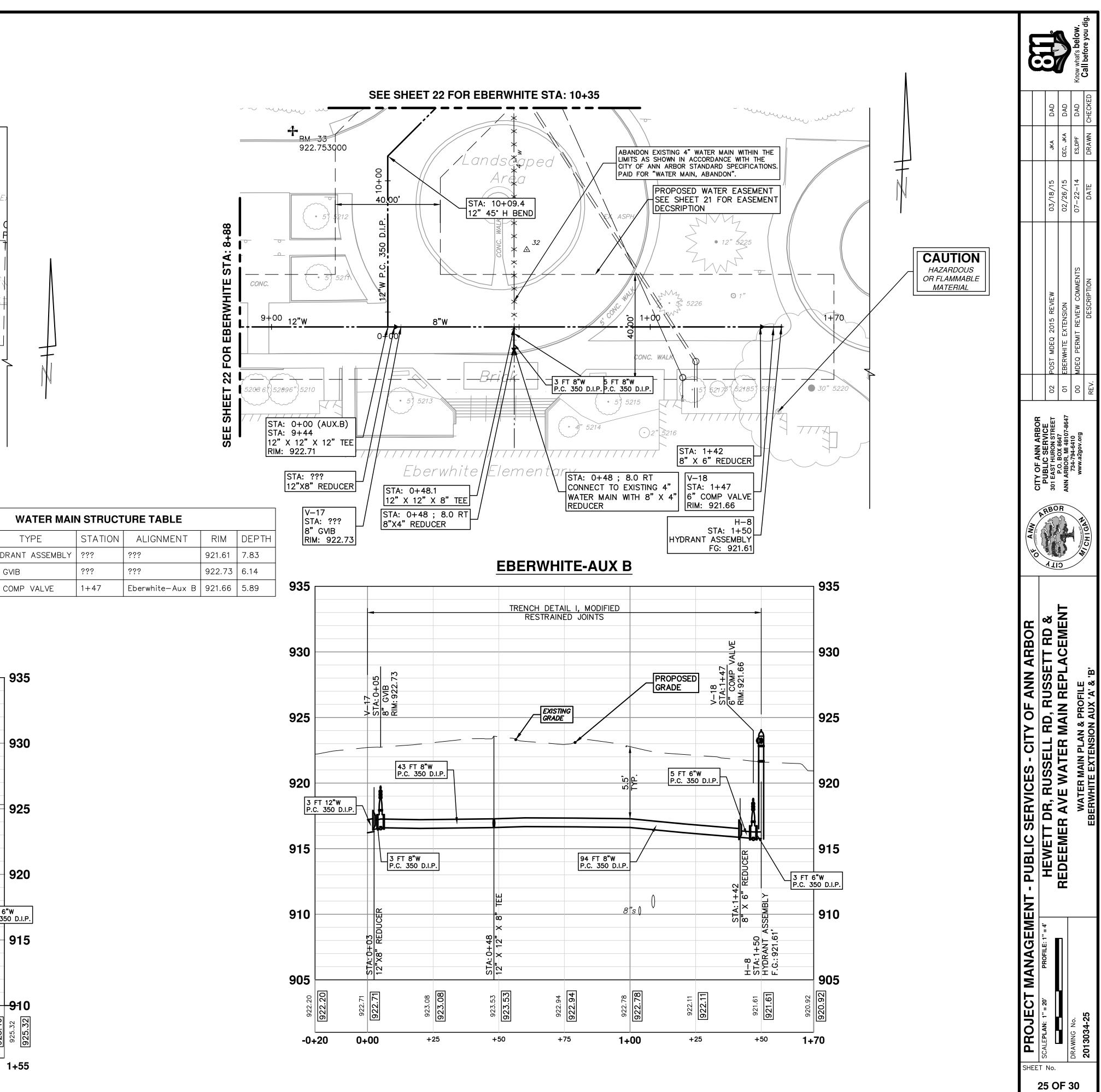


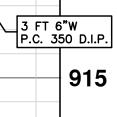
	WATER MAIN STRUCTURE TABLE				
STRUCTURE	TYPE	STATION	ALIGNMENT	RIM	DEPTH
H-7	HYDRANT ASSEMBLY	???	???	925.68	7.88
V-16	6" COMP VALVE	1+32	Eberwhite-Aux A	925.72	5.92
V-15	12" GVIB	4+51	Eberwhite	926.19	6.49

	W
STRUCTURE	T.
H-8	HYDRANT
V-17	8" GVIB
V-18	6" COMP

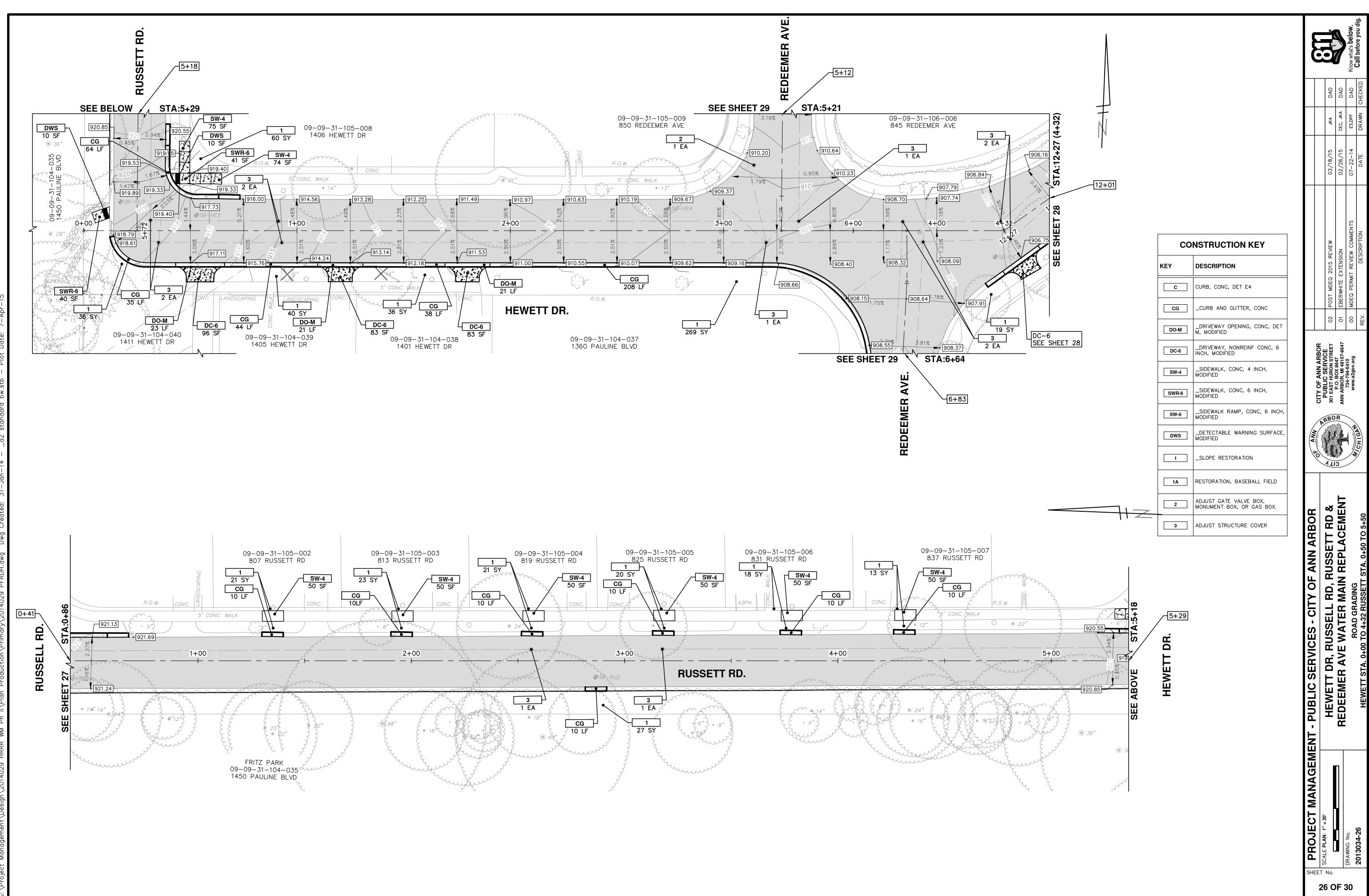


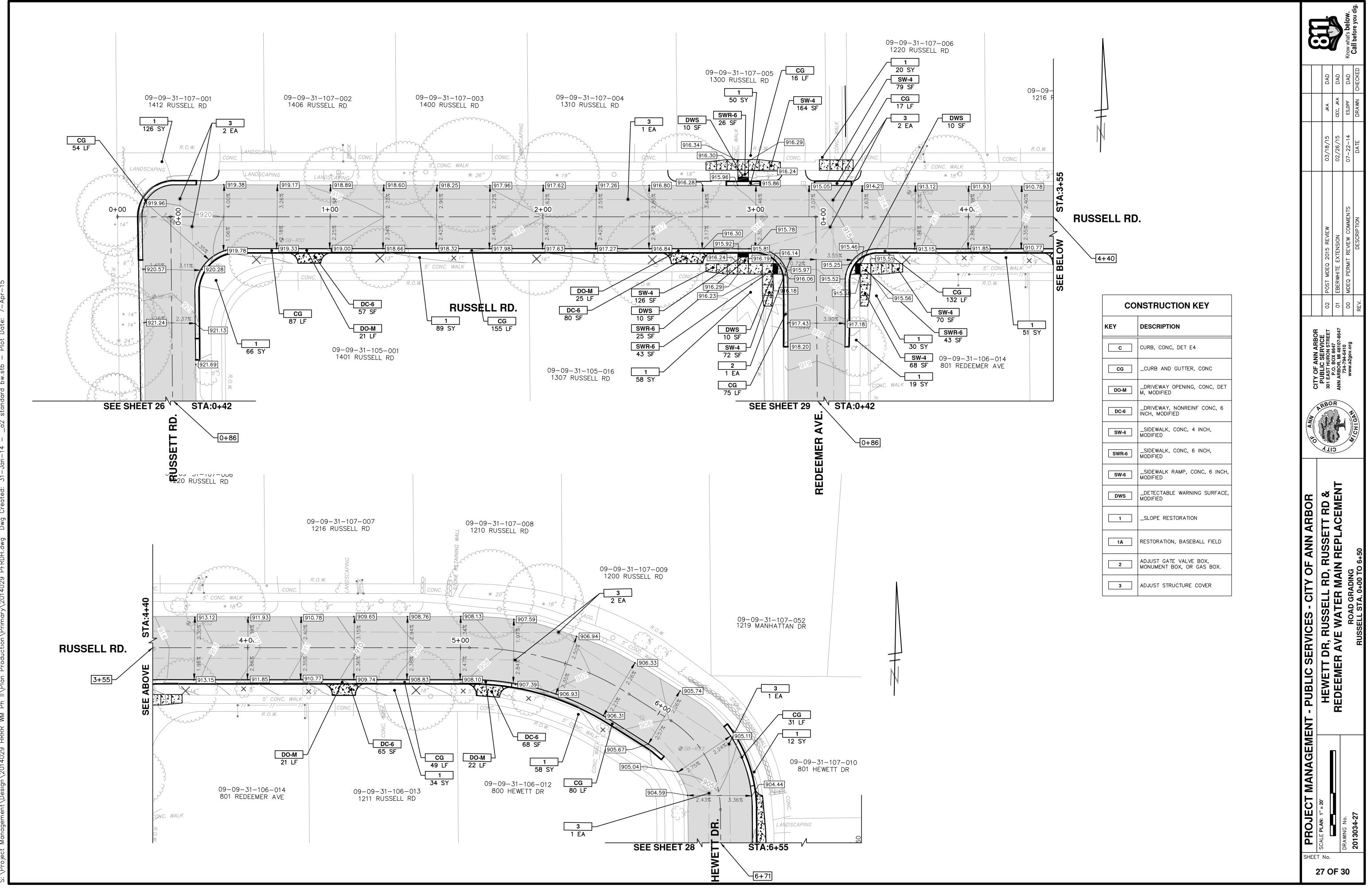


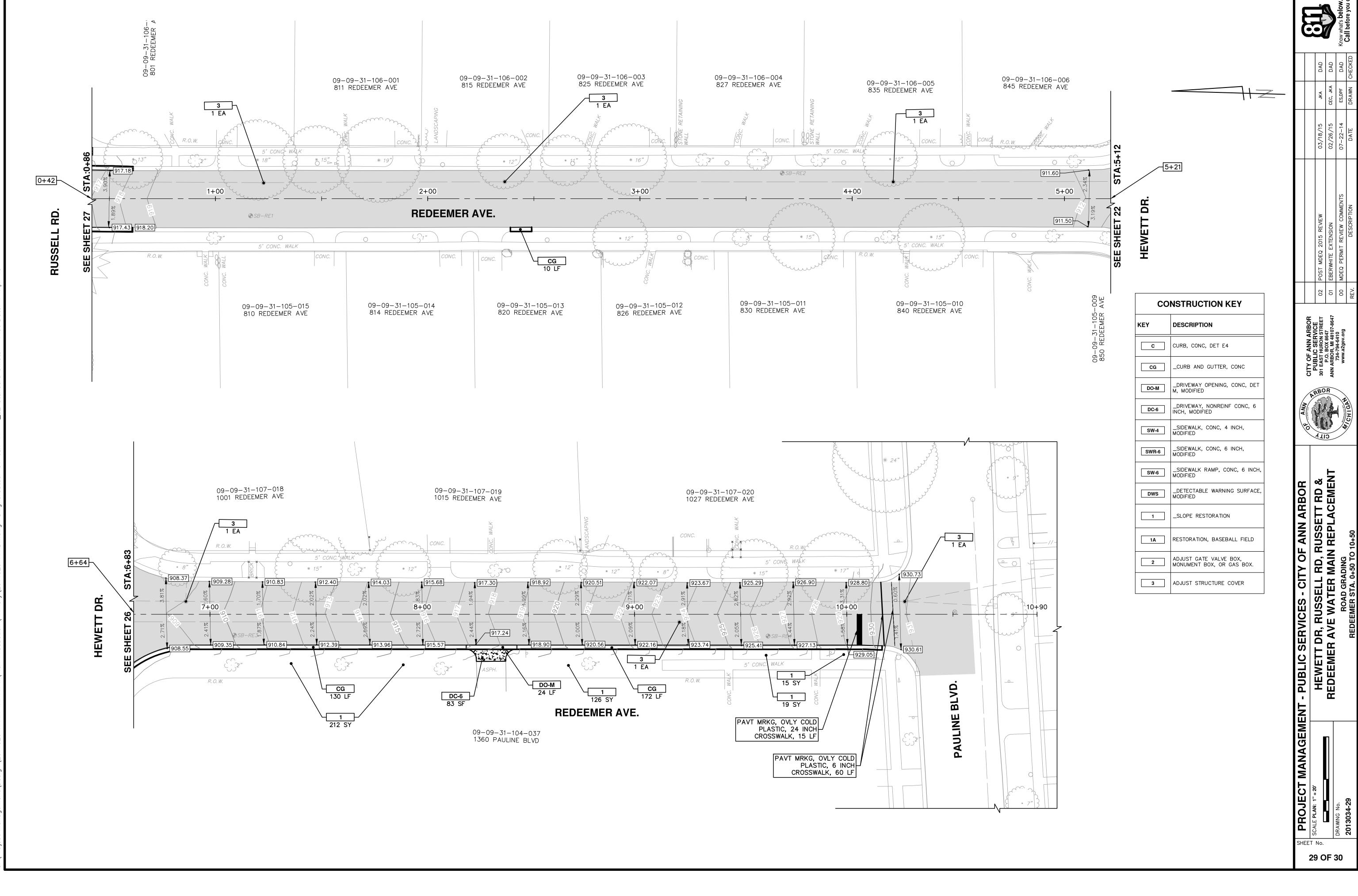




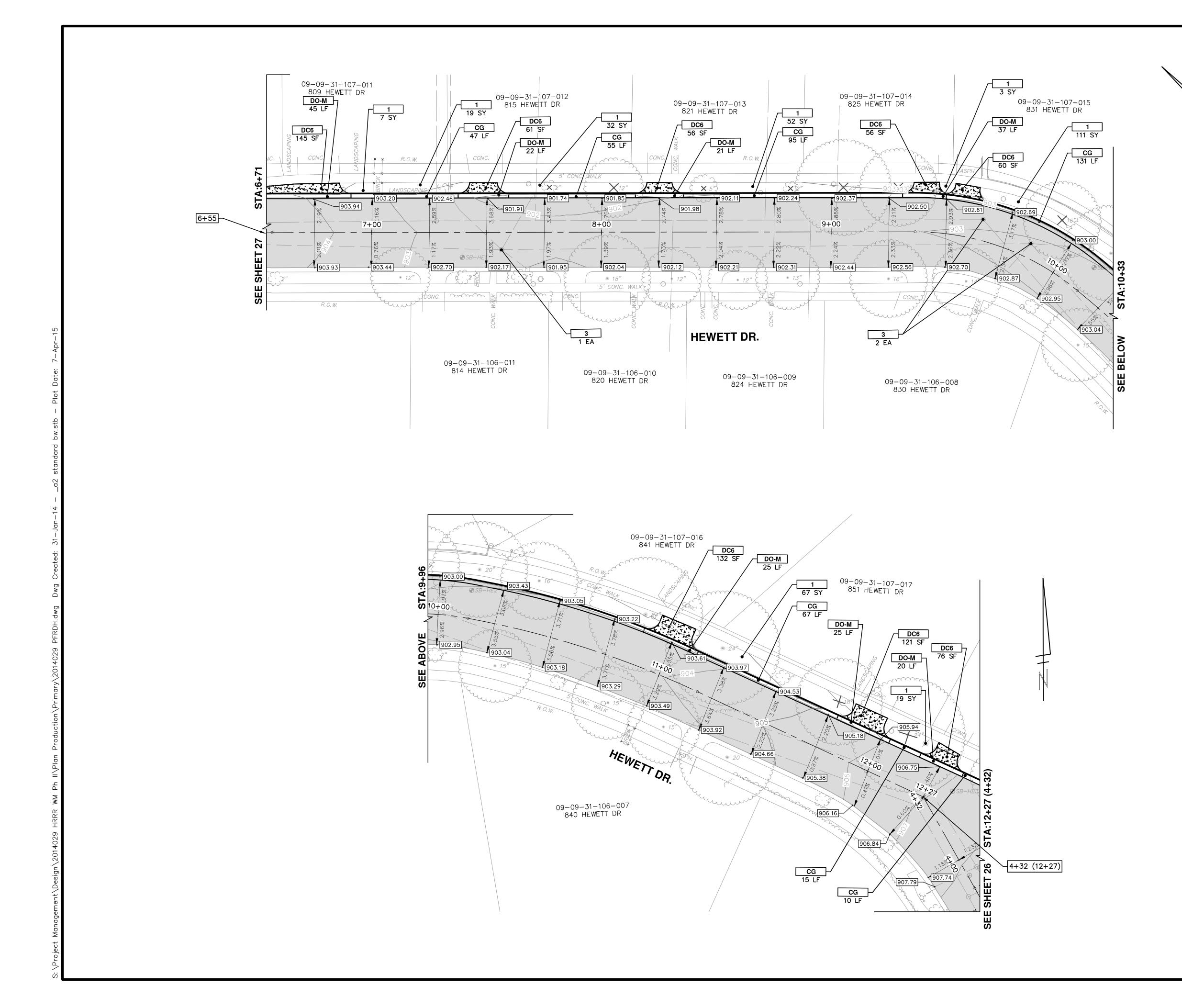
910 925.32



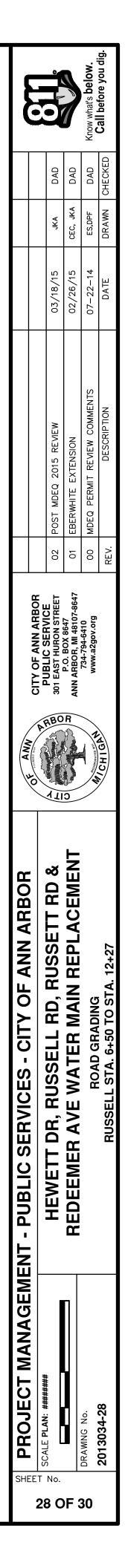


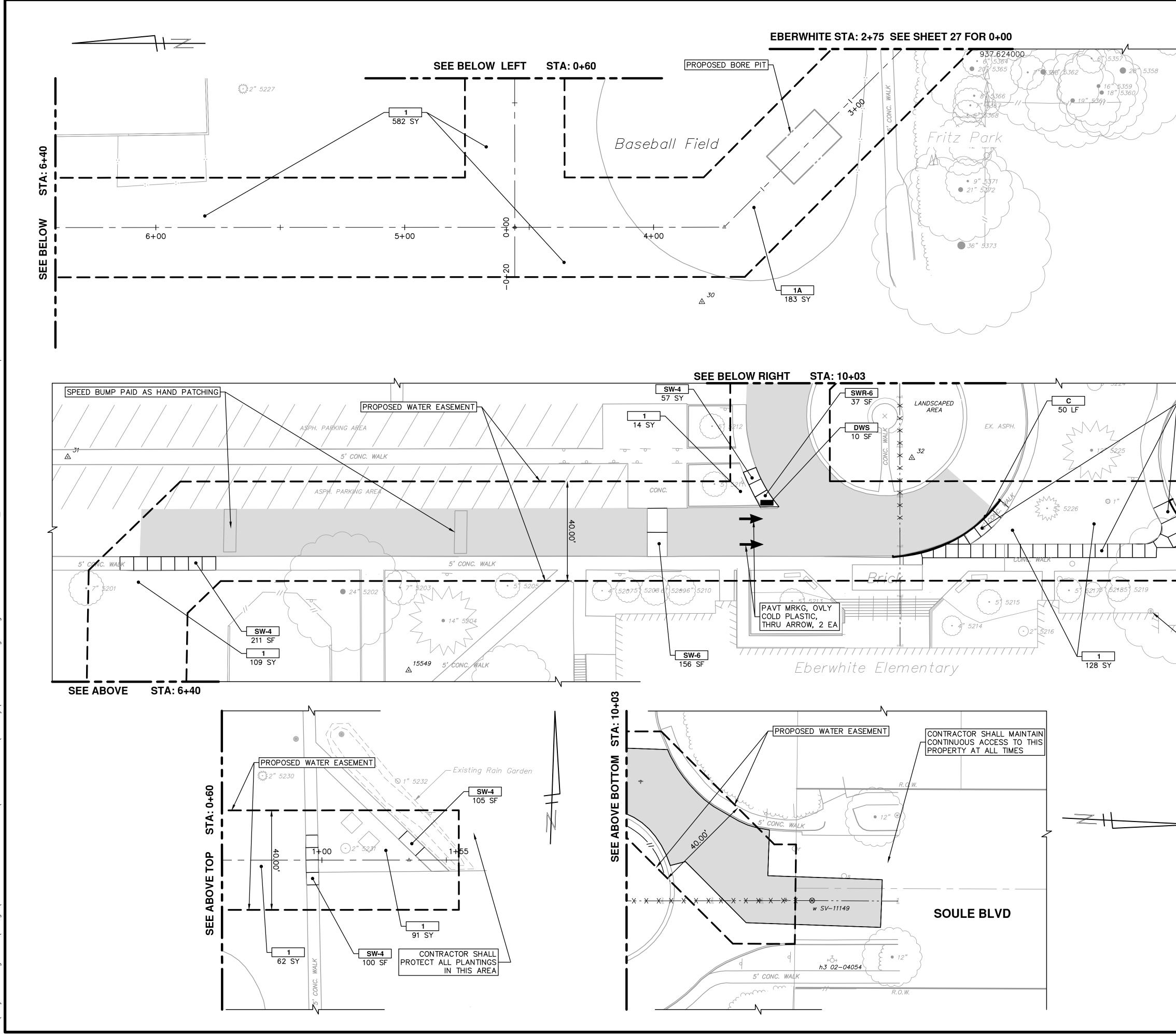


CG	_CURB AND GUTTER, CONC	
DO-M	_DRIVEWAY OPENING, CONC, DET M, MODIFIED	
DC-6	_DRIVEWAY, NONREINF CONC, 6 INCH, MODIFIED	
SW-4	_SIDEWALK, CONC, 4 INCH, MODIFIED	
SWR-6	_SIDEWALK, CONC, 6 INCH, MODIFIED	
SW-6	_SIDEWALK RAMP, CONC, 6 INCH, MODIFIED	
DWS	_DETECTABLE WARNING SURFACE, MODIFIED	
1	_SLOPE RESTORATION	
1 A	RESTORATION, BASEBALL FIELD	
2	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.	
3	ADJUST STRUCTURE COVER	



CONSTRUCTION KEY		
КЕҮ	DESCRIPTION	
С	CURB, CONC, DET E4	
CG	_CURB AND GUTTER, CONC	
DO-M	_DRIVEWAY OPENING, CONC, DET M, MODIFIED	
DC-6	_DRIVEWAY, NONREINF CONC, 6 INCH, MODIFIED	
SW-4	_SIDEWALK, CONC, 4 INCH, MODIFIED	
SWR-6	_SIDEWALK, CONC, 6 INCH, MODIFIED	
SW-6	_SIDEWALK RAMP, CONC, 6 INCH, MODIFIED	
DWS	_DETECTABLE WARNING SURFACE, MODIFIED	
1	_SLOPE RESTORATION	
1A	RESTORATION, BASEBALL FIELD	
2	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.	
3	ADJUST STRUCTURE COVER	





PROJECT MANAGEME	ANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR	E ANA						
		CITY OF ANN ARBOR						
OCALE FLAW. = 20	HEWETT DR, RUSSELL RD, RUSSETT RD &	E/ WIND BANGE 301 EAST HURON STREET	02 POST I	02 POST MDEQ 2015 REVIEW	03/18/15	JKA	DAD	
	REDEEMER AVE WATER MAIN REPLACEMENT	O 20 8647 ANN ARBOR, MI 48107-8647	01 EBERW	01 EBERWHITE EXTENSION	02/26/15	CEC, JKA	DAD	
JRAWING No.	BOAD GRADING	734-794-6410 www.a2gov.org	00 MDEQ	00 MDEQ PERMIT REVIEW COMMENTS	07-22-14	ES,DPF	DAD	Know what's below
2013034-30	EBERWHITE ELEMENTARY	VCHIGH.	REV.	DESCRIPTION	DATE	DRAWN	DRAWN CHECKED	Call before you dig.

SW-4 852 SF CG 23 LF	
	CAUTION HAZARDOUS OR FLAMMABLE MATERIAL

CONSTRUCTION KEY		
КЕҮ	DESCRIPTION	
С	CURB, CONC, DET E4	
CG	_CURB AND GUTTER, CONC	
DO-M	_DRIVEWAY OPENING, CONC, DET M, MODIFIED	
DC-6	_DRIVEWAY, NONREINF CONC, 6 INCH, MODIFIED	
SW-4	_SIDEWALK, CONC, 4 INCH, MODIFIED	
SWR-6	_SIDEWALK, CONC, 6 INCH, MODIFIED	
SW-6	_SIDEWALK RAMP, CONC, 6 INCH, MODIFIED	
DWS	_DETECTABLE WARNING SURFACE, MODIFIED	
1	_SLOPE RESTORATION	
1A	RESTORATION, BASEBALL FIELD	
2	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.	
3	ADJUST STRUCTURE COVER	