

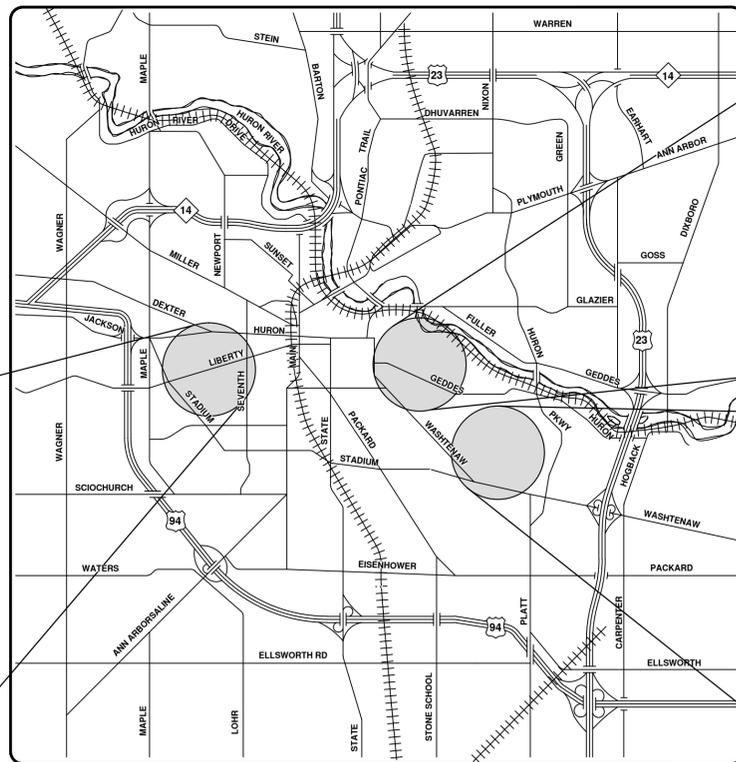


CITY OF ANN ARBOR PROJECT MANAGEMENT

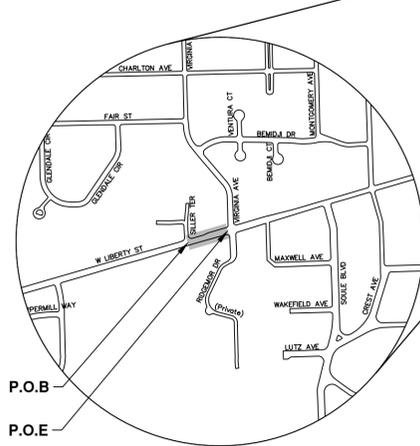
LIBERTY ST., HARVARD PLACE AND ARLINGTON BLVD. SANITARY SEWER EXTENSIONS

BID No. ITB 4345, FILE No. 2014030

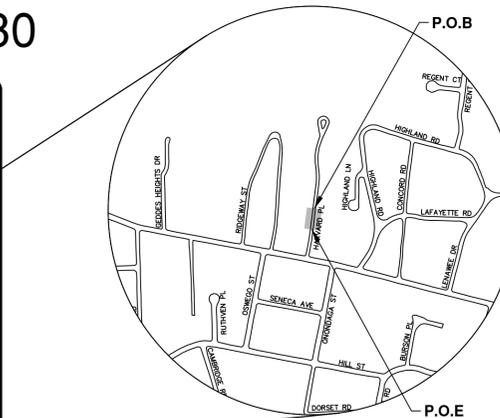
SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	LEGEND AND DETAILS
3	NOTES
4	HARVARD PLACE REMOVALS AND TRAFFIC CONTROL
5	HARVARD PLACE SANITARY SEWER PLAN AND PROFILE
6	LIBERTY ST. REMOVALS AND TRAFFIC CONTROL
7	LIBERTY ST. DETOUR PLAN
8	LIBERTY ST. SANITARY SEWER PLAN AND PROFILE
9	ARLINGTON BLVD. REMOVALS AND TRAFFIC CONTROL
10	ARLINGTON BLVD. DETOUR PLAN
11	ARLINGTON BLVD. SANITARY SEWER PLAN AND PROFILE



VICINITY MAP



P.O.B.
P.O.E.



P.O.B.

P.O.E.

PROJECT MANAGEMENT SERVICE UNIT	
 NICHOLAS HUTCHINSON, P.E. - MI LICENSE No. 46789 CITY ENGINEER _____ / / 2014 DATE	ENGINEER'S SEAL
PREPARED UNDER THE SUPERVISION OF _____ DAVID ARTHUR DYKMAN, P.E. - MI LICENSE No. 52912 PROJECT MANAGER _____ / / 2014 DATE	ENGINEER'S SEAL

NOTES:

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, ITS DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.



REV.	DATE	DRAWN	CHECKED

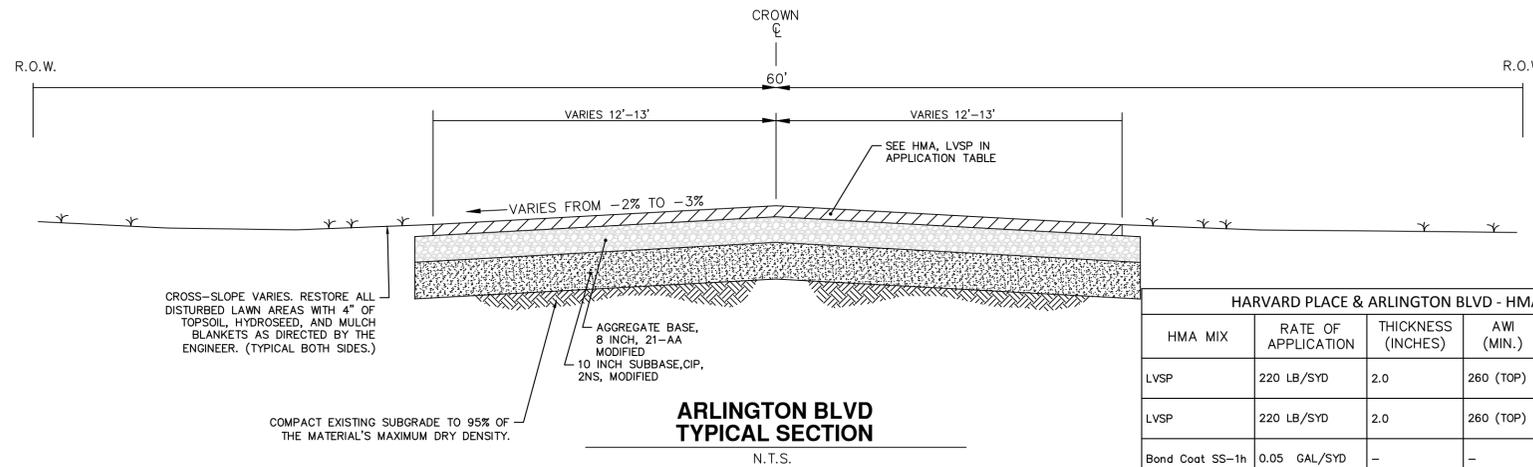
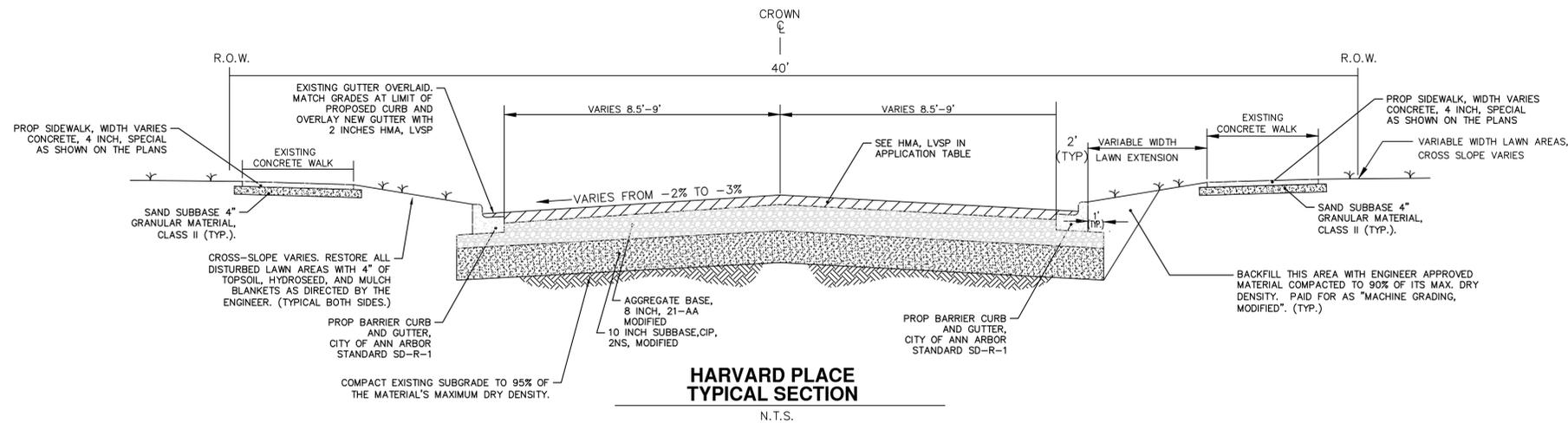
CITY OF ANN ARBOR
PUBLIC SERVICE
301 EAST HURON STREET
ANN ARBOR, MI 48106-3667
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PROJECT DESCRIPTION
LIBERTY ST., HARVARD PLACE AND ARLINGTON BLVD. SANITARY SEWER EXTENSIONS ; BID No. ITB 4345 ; 2014030

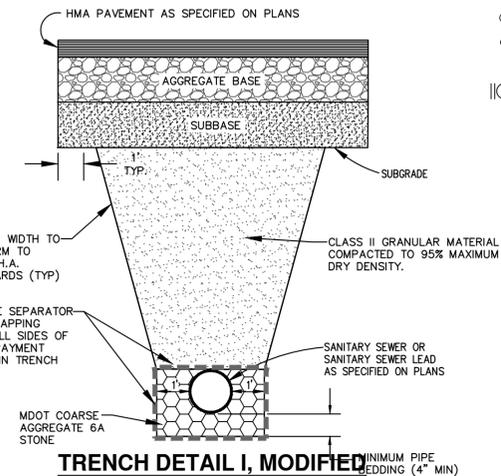
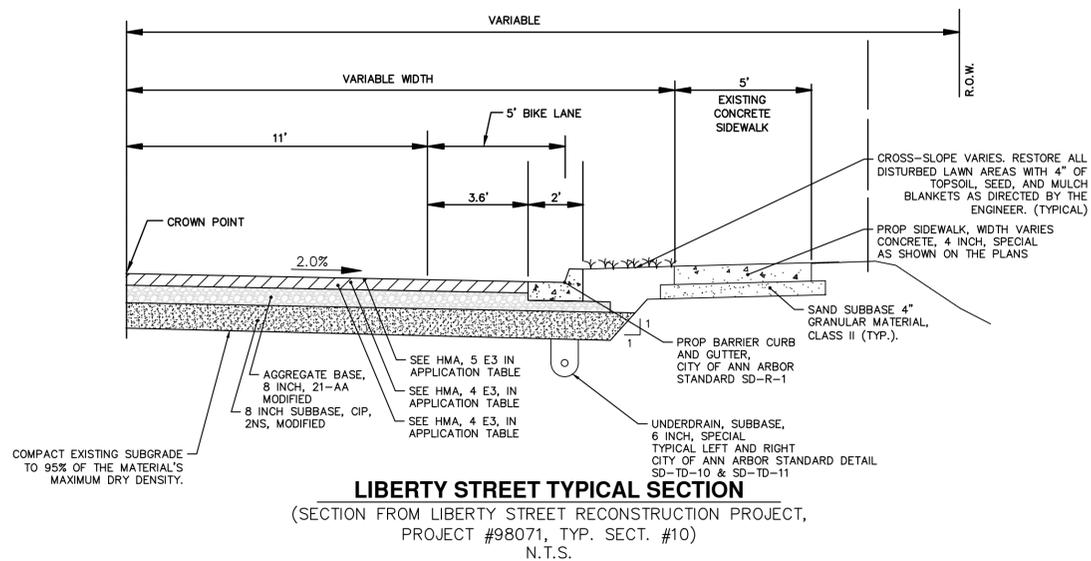
PROJECT MANAGEMENT - CITY OF ANN ARBOR	ENGINEER'S SEAL
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR	ENGINEER'S SEAL
SCALE	
DRAWING No. 2014030-1	
SHEET No. 1 OF 11	

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HARVARD PLACE & ARLINGTON BLVD - HMA APPLICATION ESTIMATE					
HMA MIX	RATE OF APPLICATION	THICKNESS (INCHES)	AWI (MIN.)	BINDER	LOCATION/NOTES
LVSP	220 LB/SYD	2.0	260 (TOP)	PG 58-28	TOP COURSE
LVSP	220 LB/SYD	2.0	260 (TOP)	PG 58-28	BASE COURSE
Bond Coat SS-1h	0.05 GAL/SYD	-	-	-	INCLUDE IN COST OF HMA ITEM

LIBERTY STREET - HMA APPLICATION ESTIMATE					
HMA MIX	RATE OF APPLICATION	THICKNESS (INCHES)	AWI (MIN.)	BINDER	LOCATION/NOTES
5 E3	165 LB/SYD	1.5	260	PG 64-28	TOP COURSE
4 E3	220 LB/SYD	2.0	-	PG 64-28	LEVELING COURSE
4 E3	220 LB/SYD	2.0	-	PG 64-28	BASE COURSE
Bond Coat SS-1h	0.05 GAL/SYD	-	-	-	INCLUDE IN COST OF HMA ITEM



EXISTING LEGEND

- ⊕ FIRE HYDRANT
 - | GATE VALVE IN BOX
 - ⊗ GATE VALVE IN WELL
 - ⊙ STOP BOX
 - ⊠ WATER VAULT
 - ⊙ WELL
 - ⊠ CATCH BASIN (SQ)
 - ⊠ CATCH BASIN (RD)
 - STORM MANHOLE
 - ⊠ NON-CURB CATCH BASIN (SQ)
 - SANITARY MANHOLE
 - CLEAN-OUT
 - POST
 - ⊕ PEDESTRIAN SIGNAL
 - ⊖ SIGN
 - ⊠ HAND HOLE
 - ⊕ ORNAMENTAL LIGHT
 - ⊕ FLOOD LIGHT
 - ⊙ UNKNOWN MANHOLE
 - ⊕ TELEPHONE MANHOLE
 - ⊕ TELEPHONE RISER
 - ⊙ GAS VALVE
 - ⊙ GAS VENT
 - ⊠ GAS BOX
 - ⊕ ELECTRICAL RISER
 - ⊕ TRANSFORMER
 - ⊕ UTILITY POLE
 - LAMP POLE
 - ⊖ GUY ANCHOR
 - ⊖ GUY POLE
 - ⊕ MONITORING WELL
 - ⊠ MAILBOX
 - SOIL BORING
 - ⊕ TRAVERSE POINT
 - ⊕ BENCH MARK
 - IRON PIPE
 - ⊠ MON BOX
-
- W --- WATER MAIN
 - R --- STORM SEWER
 - S --- SANITARY SEWER
 - G --- GAS MAIN
 - E --- ELECTRICAL OVER HEAD
 - U --- ELECTRICAL UNDER GROUND
 - B --- BOUNDARY
 - D --- BUILDING
 - C --- CENTERLINE OF DITCH
 - CR --- CENTERLINE/CROWN OF ROAD
 - E --- EDGE OF WATER
 - F --- FENCE
 - GR --- GRAVEL
 - SW --- STONE WALL
 - RL --- TREETLINE
 - WL --- WETLAND
 - TREE (DECIDUOUS)
 - TREE (CONIFEROUS)
 - STUMP
 - SHRUB (DECIDUOUS)

PROPOSED LEGEND

- ⊕ HYDRANT (PLAN)
 - ⊕ WATER GATE WELL
 - ⊖ REDUCER
 - | WATER GATE VALVE
 - ⊙ WATER STOP BOX
 - ⊠ WATER VAULT
 - ⊠ INLET
 - ⊠ DOUBLE INLET
 - ⊕ INLET JUNCTION CHAMBER
 - ROUND CATCH BASIN
 - STORM MANHOLE
 - DRAIN ARROW
 - ▽ FLARED END SECTION
 - SANITARY MANHOLE
 - CLEAN-OUT
 - BARREL
 - PUSH BUTTON
-
- W --- WATER MAIN
 - R --- STORM SEWER
 - S --- SANITARY SEWER
 - C --- CENTERLINE OF DITCH
 - CR --- CENTERLINE OF ROAD
 - F --- FENCE
 - SF --- SILT FENCE
 - LU --- LOT/UNIT
 - C --- CURB
 - TGP --- TEMPORARY GRADING PERMIT
 - WE --- WATER EASEMENT
 - SE --- STORM EASEMENT
 - SWE --- SANITARY EASEMENT
 - RL --- R.O.W.
 - LC --- LIMITS OF CONSTRUCTION
 - SW --- STONE WALL
 - DW --- DETECTABLE WARNING
 - ASP --- ASPHALT
 - CON --- CONCRETE
 - S --- SIDEWALK
 - TREE (DECIDUOUS)
 - TREE (CONIFEROUS)

Know what's below. Call before you dig.

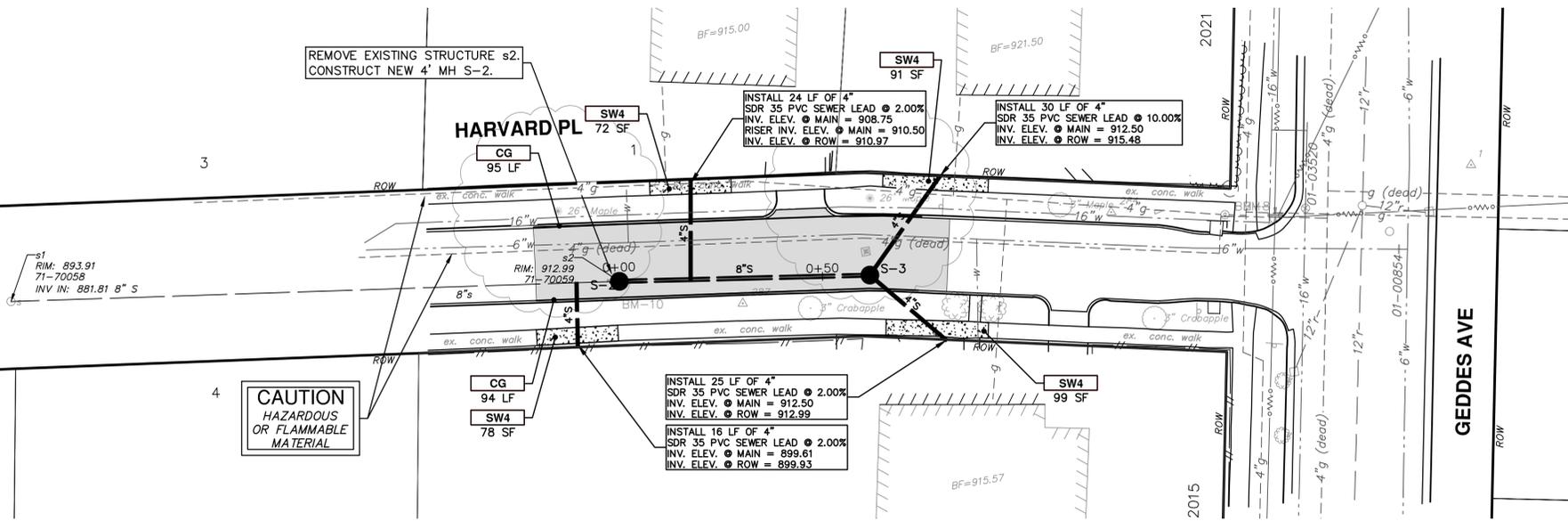
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

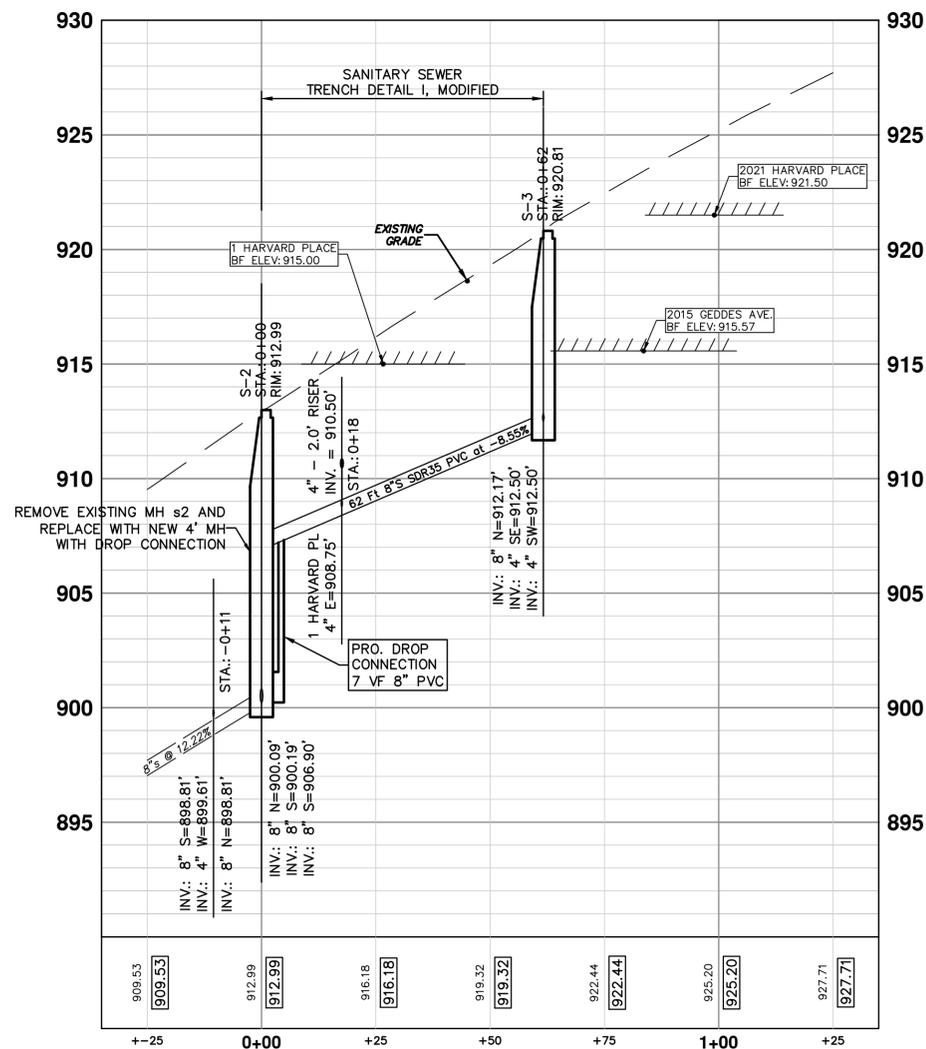
LIBERTY ST., HARVARD PLACE AND ARLINGTON BLVD. SANITARY SEWER EXTENSIONS

LEGEND AND DETAILS

SCALE PLAN: N.T.S.
DRAWING NO: 2014030-2
SHEET NO. 2 OF 11



CONSTRUCTION KEY	
KEY	DESCRIPTION
CG	PLACE CURB AND GUTTER, CONC, DETAIL SD-R-1
SW4	PLACE 4" CONC, SIDEWALK



SANITARY SEWER STRUCTURE TABLE							
STRUCTURE	STATION	RIM	DEPTH	DIA.	TYPE	INVERTS	NOTES
S-2	0+00	912.99	12.90	48"	4' MH	8" N 900.09 8" S 900.19 8" S 906.90	REMOVE EXISTING MH s2 AND REPLACE WITH NEW 4' MH WITH DROP CONNECTION
S-3	0+61.63	920.81	8.64	48"	4' MH	8" N 912.17 4" SE 912.50 4" SW 912.50	4' MANHOLE

SANITARY SEWER LEAD SCHEDULE									
STATION	ADDRESS	FITTING	RISER LENGTH (FT)	SIZE	INVERT @ MAIN	RISER INVERT	LEAD INVERT @ ROW	SLOPE	LEAD LENGTH (FT)
-0+11	VACANT	WYE		4"	899.61		899.93	2.0%	16
0+18	1 HARVARD PLACE	TEE	1.75	4"	908.75	910.50	911.00	2.0%	24
0+62	2015 GEDES AVE	MH		4"	912.50		912.99	2.0%	25
0+62	2021 GEDES AVE	MH		4"	912.50		915.48	10.0%	30

HARVARD PLACE BENCHMARKS		
BM #	ELEV	DESCRIPTION
8	931.829	SET RR SPIKE IN E. SIDE OF PP @ NE CORNER OF GEDES & HARVARD
9	920.623	TOP OF PIPE IN MON. BOX ALONG CL OF HARVARD. BOX IS 125' ± N. OF CL OF GEDES.
10	912.884	NORTH RIM ON SAN. MH ON HARVARD. (1ST MH N. OF MON BOX)



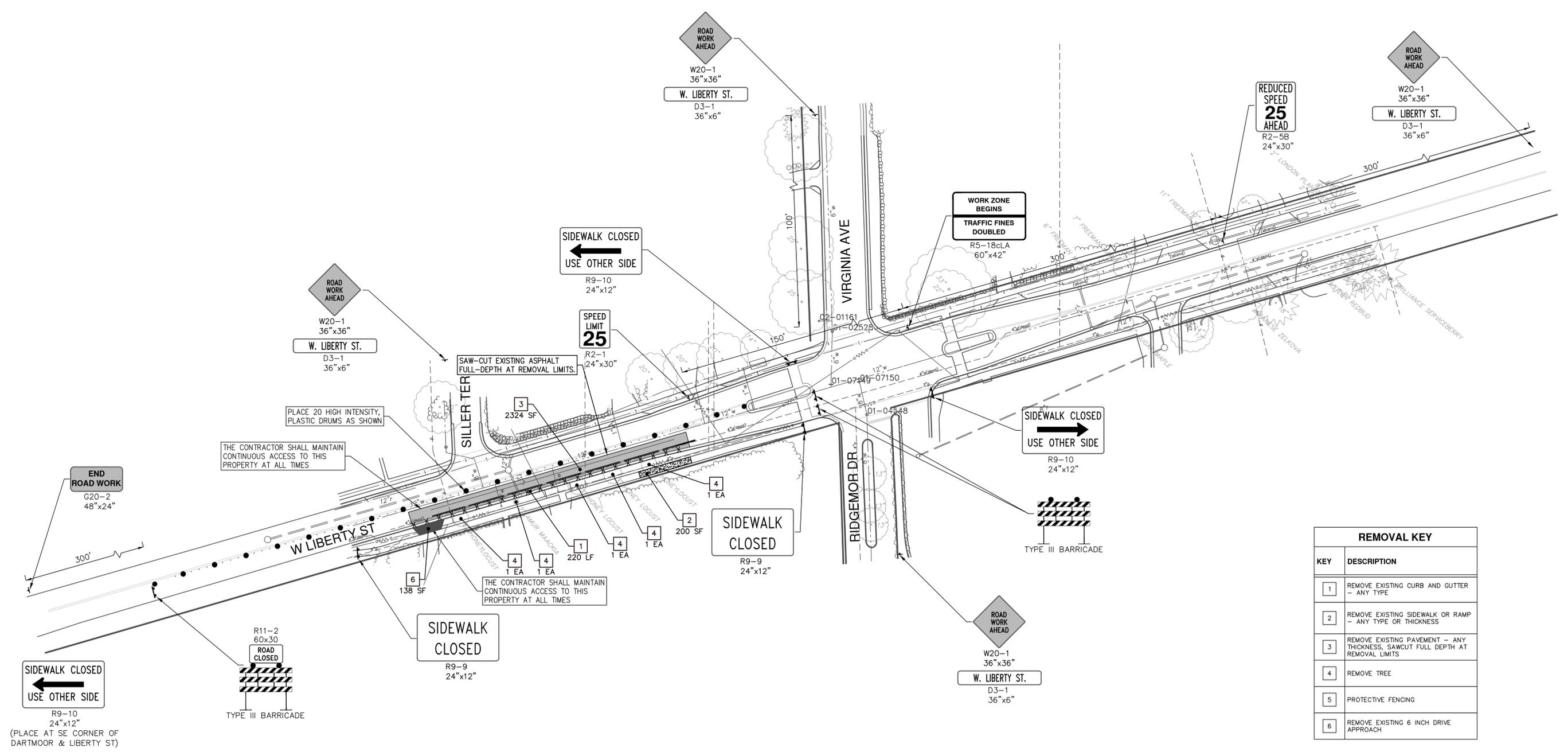
CITY OF ANN ARBOR
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ANN ARBOR MI 48106-1667
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
LIBERTY ST., HARVARD PLACE
AND ARLINGTON BLVD.
SANITARY SEWER EXTENSIONS
HARVARD PLACE SANITARY SEWER PLAN AND PROFILE

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'
DRAWING No. 2014030-5

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REMOVAL KEY	
KEY	DESCRIPTION
1	REMOVE EXISTING CURB AND GUTTER - ANY TYPE
2	REMOVE EXISTING SIDEWALK OR RAMP - ANY TYPE OR THICKNESS
3	REMOVE EXISTING PAVEMENT - ANY THICKNESS, SAWCUT FULL DEPTH AT REMOVAL LIMITS
4	REMOVE TREE
5	PROTECTIVE FENCING
6	REMOVE EXISTING 6 INCH DRIVE APPROACH

811
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED

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CITY OF ANN ARBOR
LIBERTY ST. REMOVALS & TRAFFIC CONTROL

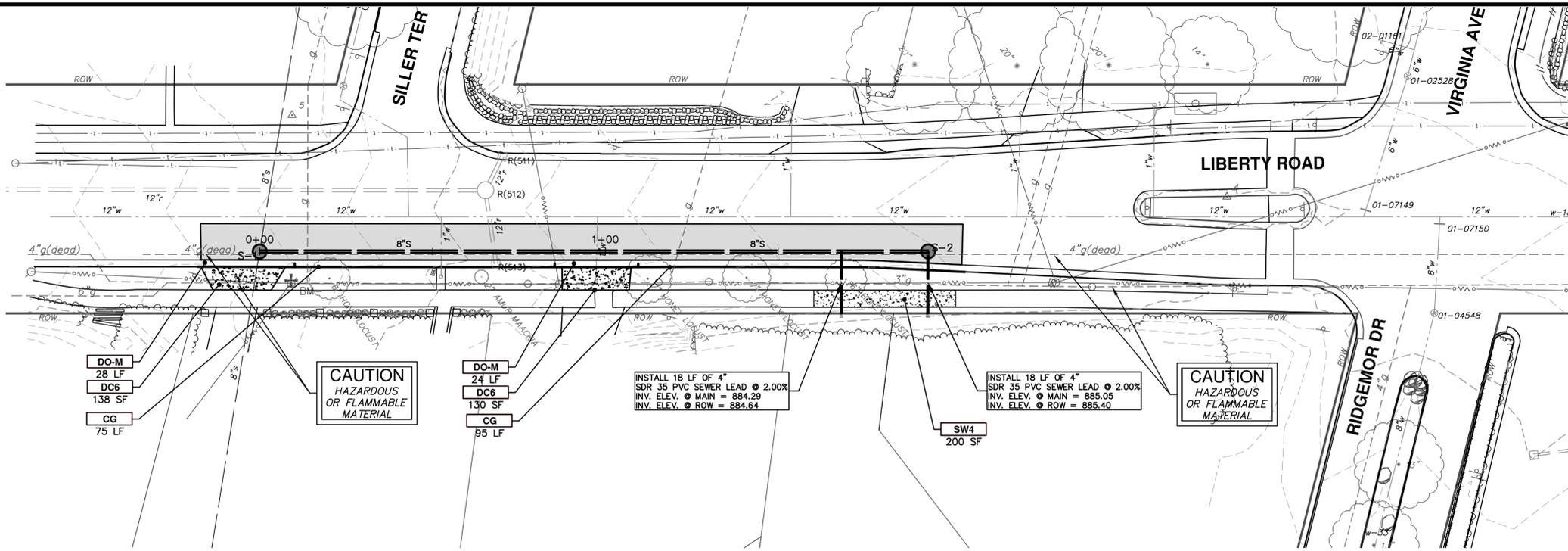
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
LIBERTY ST., HARVARD PLACE AND
ARLINGTON BLVD. SANITARY SEWER
EXTENSIONS

SCALE PLAN: 1" = 40'
DRAWING No. **2014030-6**

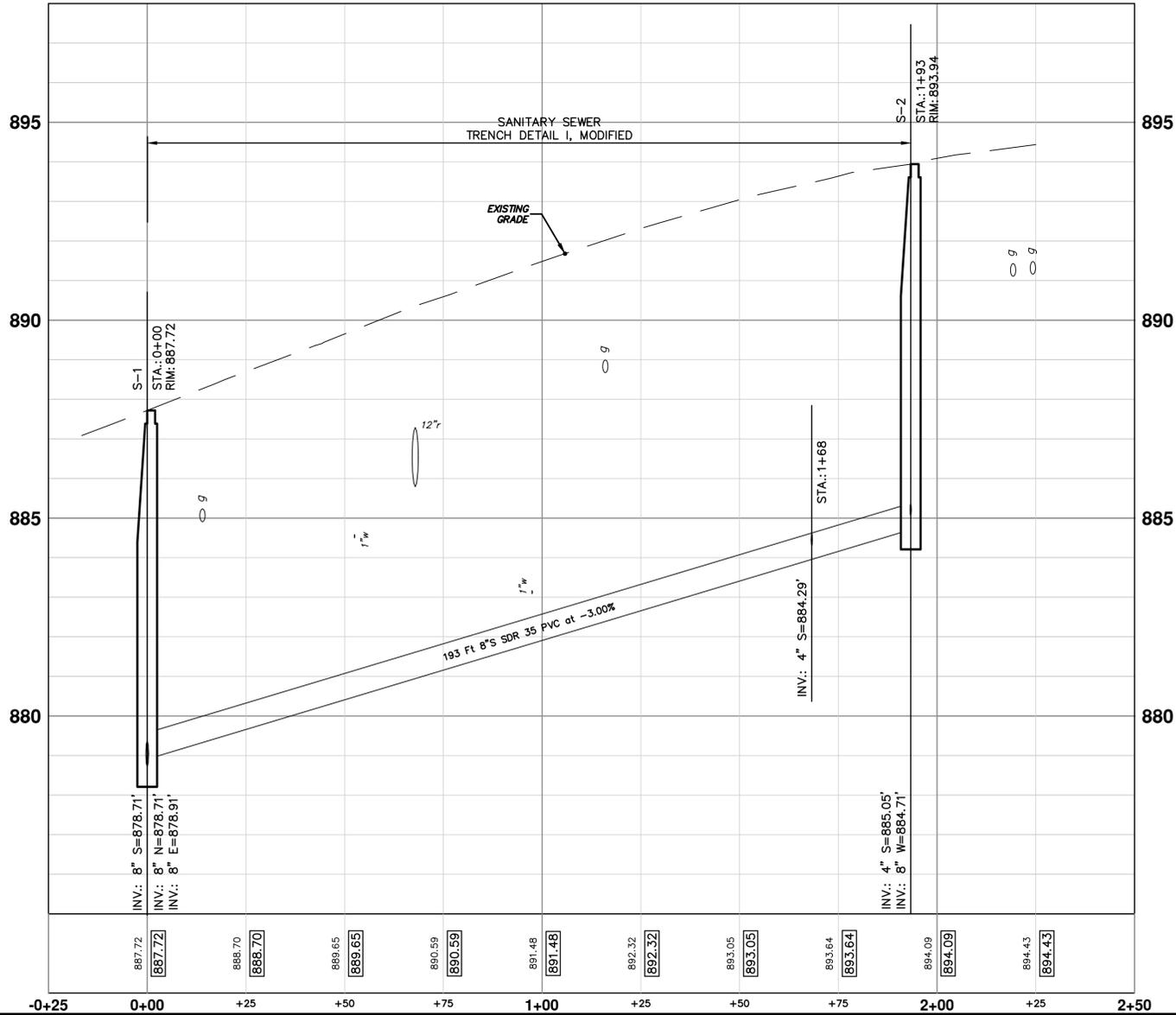
SHEET No. **6 OF 11**

LIBERTY ST. REMOVALS & TRAFFIC CONTROL

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CONSTRUCTION KEY	
KEY	DESCRIPTION
CG	PLACE CURB AND GUTTER, CONC, SD-R-1
DO-M	PLACE DRIVEWAY OPENING, CONC, DETAIL M, P-NC
SW4	PLACE 4" CONC, SIDEWALK
DC6	PLACE CONC, DRIVE APPROACH, NON-REINFORCED, P-NC, 6 INCH



SANITARY SEWER STRUCTURE TABLE							
STRUCTURE	STATION	RIM	DEPTH	DIA.	TYPE	INVERTS	NOTES
S-1	0+00	887.72	9.01	48"	4' MH	8" S 878.71 8" N 878.71 8" E 878.91	CONST. 4' DIA. MH OVER EX. 8" SAN. SEWER
S-2	1+93.32	893.94	9.23	48"	4' MH	4" S 885.05 8" W 884.71	CONST. 4' DIA. MH

SANITARY SEWER LEAD SCHEDULE						
STATION	FITTING	SIZE	INVERT @ MAIN	LEAD INVERT @ ROW	SLOPE	LEAD LENGTH (FT)
1+68	WYE	4"	884.29	884.64	2.0%	18
1+93	WYE	4"	885.05	885.40	2.0%	18

LIBERTY / RIDGEMOR BENCHMARKS		
BM #	ELEV	DESCRIPTION
3	885.927	RR SPIKE IN NE SIDE OF UP @ SW CORNER OF LIBERTY & 3RD
4	852.599	SET RR SPIKE IN NLY SIDE OF UP @ SE CORNER OF LIBERTY & 7TH
5	863.008	SET RR SPIKE IN NLY SIDE OF UP @ SE CORNER OF LIBERTY & EBERWHITE
6	890.348	SET RR SPIKE IN NLY SIDE OF UP ON S. SIDE OF LIBERTY IN FRONT OF HSE # 1417
7	895.367	SET RR SPIKE IN SLY SIDE OF UP @ NE CORNER OF LIBERTY & VIRGINIA
8	888.326	SET RR SPIKE IN W SIDE OF LP ON E SIDE OF VIRGINIA (FIRST LIGHT POLE N OF LIBERTY)
9	877.254	SET RR SPIKE IN W SIDE OF LP ON E SIDE OF VIRGINIA (SECOND LIGHT POLE N OF LIBERTY)
10	889.781	SET RR SPIKE IN N SIDE OF UP ON S SIDE OF LIBERTY @ DRIVE FOR HSE #1571

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
LIBERTY ST., HARVARD PLACE
AND ARLINGTON BLVD.
SANITARY SEWER EXTENSIONS
LIBERTY ST SANITARY SEWER PLAN AND PROFILE

SHEET No. **8 OF 11**

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TRAFFIC CONTROL SIGN		
SIGN	NUMBER	QUANTITY
ARLINGTON BLVD. DETOUR ↑	D3-1 M4-9S 30x24	14 14
ARLINGTON BLVD. DETOUR →	D3-1 M4-9R 30x24	2 2
ARLINGTON BLVD. DETOUR ←	D3-1 M4-9L 30x24	2 2
ARLINGTON BLVD. DETOUR ↙	D3-1 M4-9L (MOD.) 30x24	1 1
ARLINGTON BLVD. DETOUR ↘	D3-1 M4-9L (MOD.) 30x24	1 1
ARLINGTON BLVD. DETOUR ENDS	D3-1 M4-8a 24x18	2 2
ROAD CLOSED TO THRU TRAFFIC	R11-4 60x30	2
ARLINGTON BLVD CLOSED AT HEATHERWAY FOLLOW DETOUR	SPECIAL 48x66	3
ARLINGTON BLVD CLOSED AT HEATHERWAY FOLLOW DETOUR	SPECIAL 48x66	2
DETOUR ←	M4-10L 48x18	1
DETOUR →	M4-10R 48x18	1
DETOUR AHEAD	W20-2 36x36	6
ARLINGTON BLVD. D3-1	D3-1	6

BARRICADE, TYPE III, HIGH INTENSITY, LIGHTED - 2 EACH

LEGEND:

- NORTH AND SOUTH BOUND ARLINGTON BOULEVARD DETOUR ROUTE
- ARLINGTON BOULEVARD CONSTRUCTION AREA
- TWO WAY - ARLINGTON BOULEVARD LOCAL TRAFFIC MAINTAINED

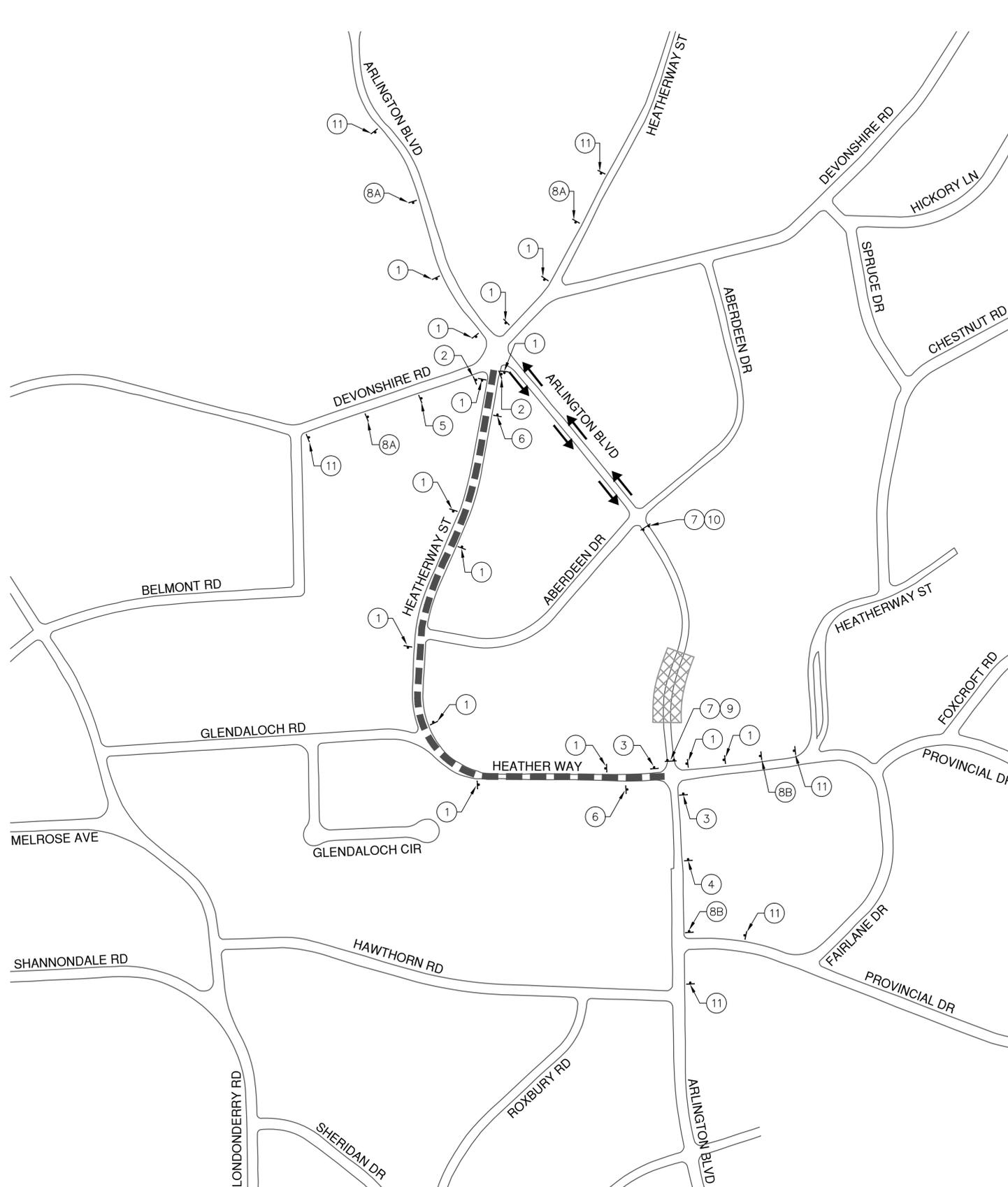


8"0" Radius, 1.5" Border, Black on Orange.
[ARLINGTON BLVD];:C [CLOSED AT];:C [HEATHERWAY];:C [FOLLOW DETOUR]

9"0" Radius, 1.5" Border, Black on Orange.
[ARLINGTON BLVD];:C [CLOSED AT];:C [ABERDEEN DR];:C [FOLLOW DETOUR]

DETOUR CONSTRUCTION NOTES:

- DEPENDENT ON THE DETOUR ROUTES THAT ARE PUT IN PLACE, CONFLICTING SIGNS MAY BE PRESENT. PRIOR TO THE ORDERING OR PLACEMENT OF ANY SIGNS, MEET WITH THE ENGINEER TO VERIFY THE EXACT NUMBER AND LOCATION OF THE SIGNS TO BE PLACED. THE ENGINEER AND THE CONTRACTOR SHALL WORK TOGETHER TO ELIMINATE ALL CONFLICTS.
- THE CITY RESERVES THE RIGHT TO ORDER ADDITIONAL SIGNS AND PLACE THEM INTO SERVICE IN ORDER TO SAFELY MAINTAIN TRAFFIC. ADJUSTMENTS IN THE UNIT PRICE FOR THESE ITEMS OF WORK SHALL NOT BE ALLOWED FOR THESE OCCURRENCES.
- THE CONTRACTOR SHALL COORDINATE HIS OPERATIONS WITH THOSE OF THE CITY OF ANN ARBOR'S SIGNS AND SIGNALS UNIT DURING THE COURSE OF THE DETOUR ROUTE ESTABLISHMENT TO EFFECTIVELY AND SAFELY MAINTAIN TRAFFIC. DO NOT ERECT ANY SIGNS UNTIL ITS LOCATION AND PROPOSED DATE OF INSTALLATION IS APPROVED BY THE ENGINEER.
- THIS DETOUR IS TO BE IN PLACE DURING THE ARLINGTON BLVD. SANITARY SEWER EXTENSION. AS DIRECTED BY THE ENGINEER, THE CONTRACTOR WILL CLOSE AND DETOUR NORTH AND SOUTH BOUND ARLINGTON BOULEVARD TRAFFIC. SEE "SPECIAL PROVISION FOR MAINTAINING TRAFFIC AND CONSTRUCTION SEQUENCING" FOR DETAILS ON CONSTRUCTION STAGING, SEQUENCING, CLOSURE AND DETOUR LIMITATIONS, AND OTHER DETAILS.
- REFERENCE THE "DETAILED SPECIFICATION FOR MAINTAINING TRAFFIC AND CONSTRUCTION SEQUENCING" FOR ADDITIONAL PROJECT REQUIREMENTS. THE CONTRACTOR'S ATTENTION IS SPECIFICALLY DIRECTED TO THE SECTION OF SAME SPECIAL PROVISION REGARDING COORDINATION WITH THE CITY SIGNS AND SIGNALS UNIT FOR THE SEVERAL DETOUR ROUTE MODIFICATIONS AND THE MODIFICATIONS TO TRAFFIC SIGNALS FOR THE DETOUR.
- THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN SIGNS AS SHOWN ON THE PLANS OR OTHERWISE DIRECTED BY THE ENGINEER.
- CONSTRUCTION WARNING SIGNS SHALL HAVE AN ORANGE, HIGH-INTENSITY, REFLECTORIZED BACKGROUND.
- SIGNS SHALL CONFORM TO THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL DRIVE ALL SIGNS INTO EXPOSED GROUND OR INSERT INTO A BORED HOLE IN PAVEMENT AS NECESSARY TO PERMANENTLY SECURE. ALL HOLES IN PAVEMENT SHALL BE FILLED WITH ENGINEER-APPROVED MORTAR WHEN THE SIGN IS REMOVED AND NO LONGER NEEDED. COSTS FOR THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "SIGN, TYPE B, TEMP, PRISMATIC, FURN" OR "SIGN, TYPE B, TEMP, PRISMATIC, FURN, SPECIAL".



REV.	DESCRIPTION	DATE	DRAWN	CHECKED

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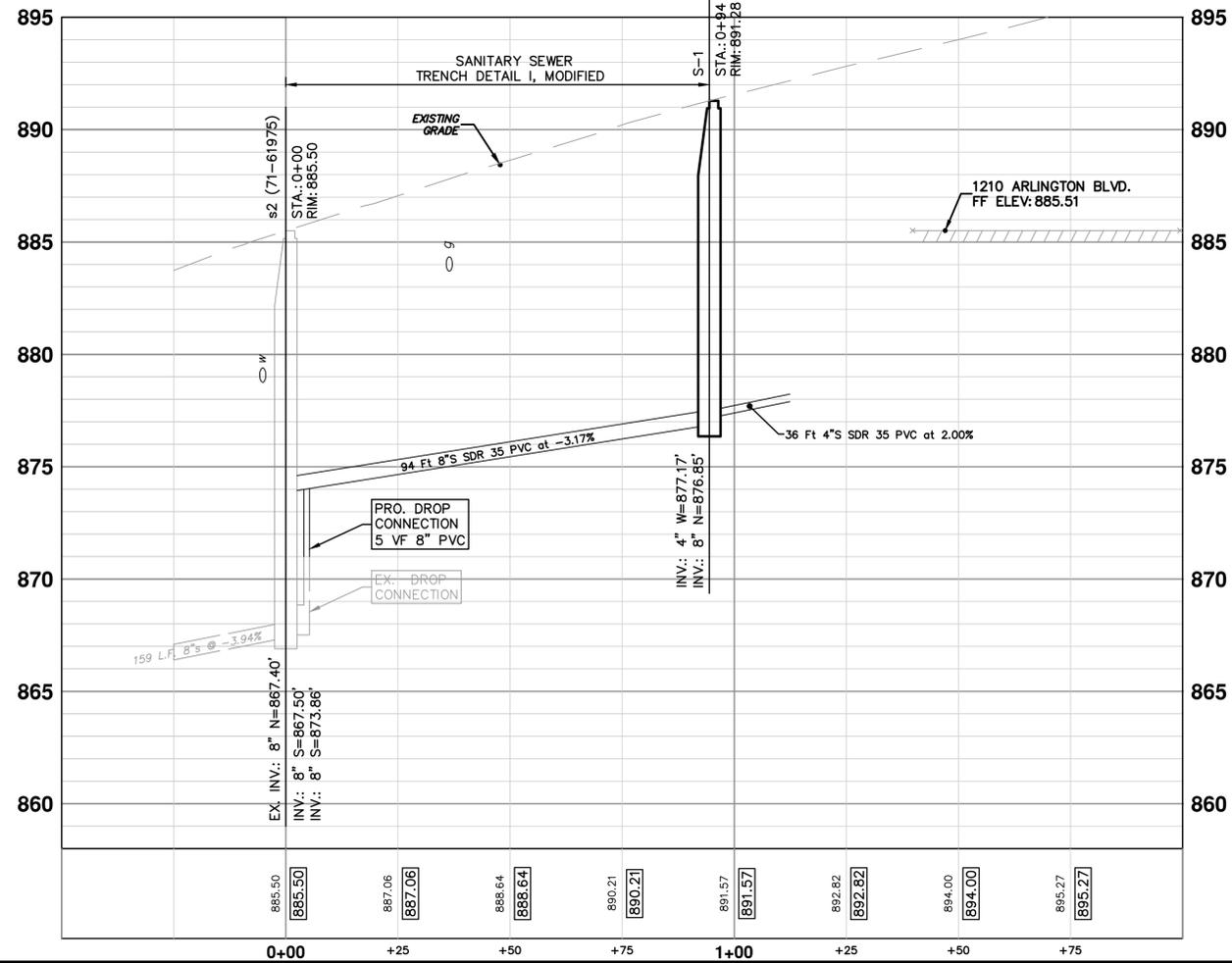
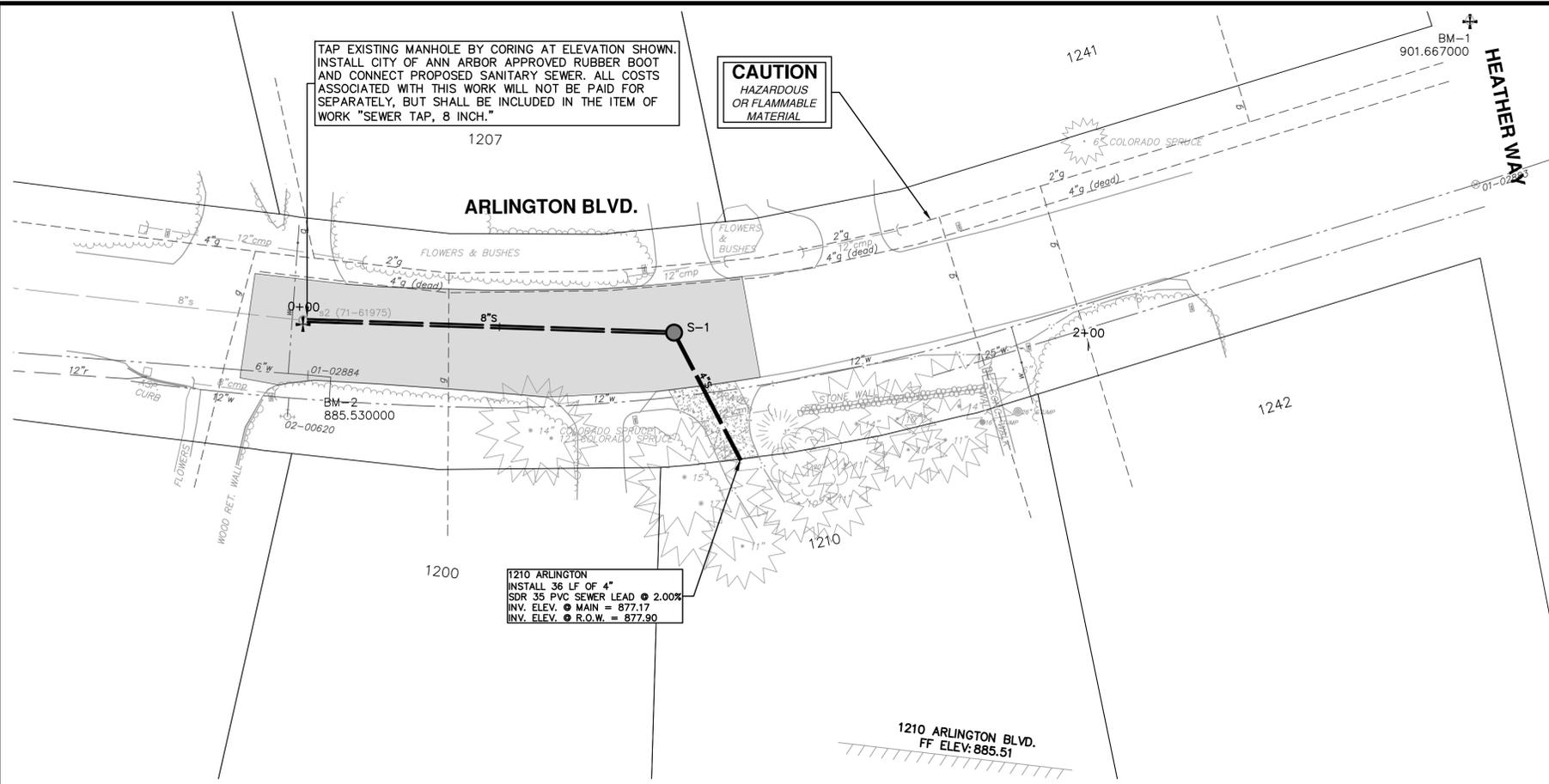


PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
LIBERTY ST., HARVARD PLACE
AND ARLINGTON BLVD.
SANITARY SEWER EXTENSIONS
ARLINGTON BLVD. DETOUR PLAN

SCALE PLAN: 1" = 200'
DRAWING No. 2014030-10

SHEET No.

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SANITARY SEWER STRUCTURE TABLE							
STRUCTURE	STATION	RIM	DEPTH	DIA.	TYPE	INVERTS	NOTES
s2 (71-61975)	0+00	885.50	18.10	48"	4' MH	8" N 867.40 8" S 867.50 8" S 873.86	TAP EX. MANHOLE/EX. DROP CONNECTION CONST. DROP CONNECTION
S-1	0+94.44	891.28	14.43	48"	4' MH	4" W 877.17 8" N 876.85	CONSTRUCT 4' DIA. MANHOLE

SANITARY SEWER LEAD SCHEDULE							
STATION	ADDRESS	FITTING	SIZE	INVERT @ MAIN	LEAD INVERT @ ROW	SLOPE	LEAD LENGTH (FT)
0+94	1210 ARLINGTON	WYE	4"	877.00	877.73	2.0%	36

ARLINGTON BOULEVARD BENCHMARKS		
BM #	ELEV	DESCRIPTION
1	901.667	SET RR SPIKE L.P. @ NE CORNER OF ARLINGTON & HEATHER WAY
2	885.530	W. RIM ON SAN. MH
3	883.969	SPIKE IN E. FACE OF P.P. @ N.W. CORNER OF BELMONT & LONDONDERRY

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LIBERTY ST., HARVARD PLACE
AND ARLINGTON BLVD.
SANITARY SEWER EXTENSIONS
ARLINGTON BLVD. SANITARY SEWER PLAN AND PROFILE

SHEET No. 11 OF 11
SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'
DRAWING No. 2014030-11

REV.	DESCRIPTION	DATE	DRAWN	CHECKED