

SW 10TH STREET AND SE C STREET STORMWATER IMPROVEMENTS

CITY OF BENTONVILLE, BENTON COUNTY, ARKANSAS

MUNIS# 21EN0016

LEGEND

○ FOUND MONUMENT (AS NOTED)	↔ GUY WIRE
● SET 1/2" REBAR W/PLASTIC CAP, "LC 366"	⊗ IRRIGATION VALVE
● SET 5/8" REBAR w/aluminum cap, "LC 366"	⊙ LIGHT POLE
⊙ AIR CONDITIONER	⊙ MLB MAIL BOX
⊙ BENCHMARK	(M) MEASURED
⊙ BOLLARD	(P) MONITORING WELL
⊙ BREAKER Box	⊙ PLATTED
⊙ BUSH	⊙ POWER POLE
⊙ CABLE BOX	⊙ POWER POLE W/LIGHT
⊙ CABLE Vault	⊙ ROOF DRAIN
⊙ CAMERA	⊙ SANITARY CLEANOUT
⊙ COLUMN	⊙ SANITARY MANHOLE
⊙ CONIFEROUS Tree	⊙ STORM MANHOLE
⊙ DECIDUOUS TREE	⊙ SIGN
⊙ DEEDED	⊙ SCHEDULE B-II EXCEPTION
⊙ ELECTRIC BOX	⊙ SPRINKLER HEAD
⊙ ELECTRIC BOX	⊙ STEEL POST
⊙ ELECTRIC MANHOLE	⊙ TELEPHONE CABINET
⊙ ELECTRIC METER	⊙ TELEPHONE PEDESTAL
⊙ ELECTRICAL OUTLET	⊙ TELEPHONE RISER
⊙ ELECTRICAL VAULT	⊙ TELEPHONE MANHOLE
⊙ FIRE DEPT. CONNECTION	⊙ TRAFFIC CONTROL BOX
⊙ FIRE HYDRANT	⊙ TRAFFIC SIGNAL BOX
⊙ FIBER OPTIC BOX	⊙ TRAFFIC SIGNAL POLE
⊙ FIBER OPTIC PEDESTAL	⊙ TRANSFORMER
⊙ FLARED END SECTION	⊙ VENT PIPE
⊙ GAS MARKER	⊙ WATER MANHOLE
⊙ GAS METER	⊙ WATER METER
⊙ GAS VALVE	⊙ WATER VALVE
⊙ GAS VAULT	⊙ WOOD POST
⊙ GRATE INLET	⊙ SPRINKLER CONTROL VALVE
⊙ GREASE TRAP	⊙ TREE REMOVAL

— LOG —	LIMITS OF GRADING
— P —	EXISTING CENTER LINE
— PL —	PROPERTY LINE
— ROW —	PROPOSED RIGHT-OF-WAY
— — — —	EXISTING RIGHT-OF-WAY
— - - - -	EXISTING SUBDIVISION LINE
- - - - -	PROPOSED TEMPORARY EASEMENT
- - - - -	PROPOSED PERMANENT EASEMENT
- - - - -	EXISTING EASEMENT
- - - - - 1370	EXISTING CONTOUR
- - - - - 1371	EXISTING CONTOUR
- - - - - SS	EXISTING SANITARY LINE
- - - - - SD	EXISTING STORM LINE
- - - - - G	EXISTING GAS LINE
- - - - - W	EXISTING WATER LINE
- - - - - P-UG	EXISTING UNDERGROUND POWER
- - - - - TEL	EXISTING UNDERGROUND TELEPHONE
- - - - - CATV	EXISTING UNDERGROUND CABLE/TV
- - - - - FO	EXISTING UNDERGROUND FIBER OPTIC
- - - - - T	EXISTING UNDERGROUND TRAFFIC
- - - - - P-OH	EXISTING OVERHEAD ELECTRIC
- - - - - TEL-OH	EXISTING OVERHEAD TELEPHONE
- - - - - CATV-OH	EXISTING OVERHEAD CABLE/TV
- - - - - X	EXISTING WOVEN WIRE FENCE
- - - - - ○	EXISTING CHAIN LINK FENCE
- - - - - □	EXISTING WOOD FENCE
- - - - - ○	EXISTING TREE LINE

ABBREVIATIONS

M.G.	MATCH GRADE
P.V.M.T.	PAVEMENT
TC	TOP OF CURB
EP	EDGE OF PAVEMENT
G.	GUTTER
E.L.	ELEVATION
R/W	RIGHT-OF-WAY
ROW	RIGHT-OF-WAY
TCE	TEMPORARY CONSTRUCTION EASEMENT
ESMT.	EASEMENT
PROP.	PROPOSED
EXIST.	EXISTING
TYP.	TYPICAL
(R)	REMOVAL
CONST.	CONSTRUCT
TBM	TEMPORARY BENCHMARK
C.P.	CONTROL POINT
D.N.D.	DO NOT DISTURB
U.I.P.	USE IN PLACE
CONC.	CONCRETE
AGG.	AGGREGATE
N.T.S.	NOT TO SCALE
B-B	BACK OF CURB TO BACK OF CURB



SECTION 32, T-20-N, R-30-W
BENTON COUNTY, ARKANSAS
VICINITY MAP
0' 200' 400' 800'
SCALE IN FEET

INDEX OF SHEETS

1. TITLE SHEET
2. GENERAL NOTES
3. SURVEY CONTROL & ALIGNMENT
5. RIGHT OF WAY EASEMENT PLAN
6. EROSION CONTROL PLAN
7. DEMOLITION AND PAVEMENT REPAIR PLAN
8. STORMLINE 100(A)
9. STORMLINE 100(B)
10. STORMLINE 200 & 300
11. DRAINAGE DITCH ALIGNMENT (STA 0+00 - 4+00)
12. DRAINAGE DITCH ALIGNMENT (STA 4+00 - 8+00)
13. DETENTION BASIN GRADING PLAN
- 14-16. DETAIL SHEET

UTILITY CONTACTS

<p>PROJECT MANAGER City of Bentonville 3200 S.W. Municipal Drive Bentonville, AR 72712 Contact: Andrea Jobe Phone: (479)254-2026 Email: ajobe@bentonvillear.com</p>	<p>NATURAL GAS Black Hills Energy 1301 Federal Way P.O. Box 2129 Lowell, AR 72745 Contact: Josh Knight Phone: (479)721-4543 Email: joshua.knight@blackhillscorp.com</p>	<p>WATER City of Bentonville 3200 S.W. Municipal Drive Bentonville, AR 72712 Contact: Beau Thompson (Manager Technical Services) Phone: (479)271-3140 Email: bthompson@bentonvillear.com</p>	<p>TELEPHONE AT&T 627 White Road Springdale, AR 72766 Contact: Brent Baldwin Phone: (479)200-9022 Email: bb585@att.com</p>	<p>FIRE DEPARTMENT City of Bentonville 800 SW A Street Bentonville, AR 72712 Contact: Brent Boydston (Fire Chief) Phone: (479)271-5927 Email: bboydston@bentonvillear.com</p>	<p>PRIVATE COMMUNICATIONS Walmart Stores Inc. 805 Moberly Lane Bentonville, AR 72716 Contact: Ari Bazan (Senior Systems Engineer) Phone: (479)204-7985 Email: ari.bazan@walmart.com</p>
<p>LAND OWNER Thaden School 800 SE C St Bentonville, AR 72712 Contact: Rob Whorton (Director of Facilities) Phone: (479)871-3473 Email: michael.moore3@cox.com</p>	<p>CABLE TELEVISION COX Communications Contact: Michael Moore Phone: (479)871-3473 Email: michael.moore3@cox.com</p>	<p>ELECTRIC City of Bentonville 3200 S.W. Municipal Drive Bentonville, AR 72712 Contact: April Hayes Phone: (479)271-3135 Email: ahayes@bentonvillear.com</p>	<p>WASTEWATER City of Bentonville 1901 NE A Street Bentonville, AR Contact: Chris Earl Phone: (479)271-3161 Email: cearl@bentonvillear.com</p>	<p>DEPARTMENT OF HEALTH Arkansas Department Of Health Division of Engineer, Slot 37 4815 W. Markham Little Rock, AR 72205 Contact: Adam Parker (District 1) Phone: (501)661-2623 Email: adam.parker@arkansas.gov</p>	



THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE BASED ON THE BEST INFORMATION AVAILABLE AND MAY NOT REFLECT ALL EXISTING UTILITIES IN THE PROJECT AREA. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE UTILITY COMPANIES FOR LOCATING EXISTING UTILITIES PRIOR TO CONSTRUCTION AND FOR PROTECTION OF SERVICES DURING CONSTRUCTION.



60% REVIEW

PREPARED & SUBMITTED BY



60%
PRELIMINARY
PLANS
NOT FOR
CONSTRUCTION

REV. NO.	DATE	REVISIONS DESCRIPTION

TITLE SHEET

SE 10TH STREET AND SE C STREET
PRELIMINARY DESIGN

BENTONVILLE, AR

2022

REVISIONS

drawn by: RPM
designed by: ADB
checked by: BPS
project no.: E21-04210
drawing no.: W_TTL01_E2104210
date: 09.01.2022

SHEET
1 of 16

DWG: F:\2021\04001-04500\021-04210-EI-40-Design\AutoCAD\Final Plans\Sheets\WTRS\W_TTL01_E2104210.dwg
 DATE: Sep 01, 2022 3:05pm XREFS: W_PTBK_D2104210 W_PALGN_F2104210 W_PTBK_E2104210
 USER: aboll

1. ALL WORK PRESENTED, IMPLIED, AND/OR COMPLETED AS A PART OF THIS PLAN SET SHALL CONFORM TO THE LATEST EDITION OF THE STANDARD SPECIFICATIONS OF THE CITY OF BENTONVILLE UNLESS SPECIFICALLY STATED OTHERWISE. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS (APPROVED BY CITY OF BENTONVILLE) AND ONE (1) COPY OF ALL APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS ON THE SITE AT ALL TIMES.
2. THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL LINES PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL "1-800-DIG-RITE", 1(800)344-7483, AND COORDINATE FIELD LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING GRADING ACTIVITIES. !!STOP!! CALL BEFORE YOU DIG!
3. THE CONTRACTOR SHALL NOT CHANGE OR DEViate FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE CITY OF BENTONVILLE AND PROJECT ENGINEER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL PERMITS AND PAY ALL FEES AS REQUIRED BY THE CONSTRUCTION COVERED IN THESE PLANS.
5. ALL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE CITY OF BENTONVILLE OR THE PROJECT ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING GENERAL SAFETY AT AND ADJACENT TO THE PROJECT AREA, INCLUDING THE PERSONAL SAFETY OF THE CONSTRUCTION CREW AND THE GENERAL PUBLIC AND THE SAFETY OF PUBLIC AND PRIVATE PROPERTY.
7. THE JOB SITE SHALL BE A DRUG FREE WORK PLACE, CONSUMPTION OF ALCOHOLIC BEVERAGES ON THE JOB SITE IS STRICTLY PROHIBITED.
8. ALL SIDEWALKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE 2011 PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY.
9. THE CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL IN ACCORDANCE WITH CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS AND SPECIFICATIONS.
10. ALL ELEVATIONS ARE TO NORTH AMERICAN VERTICAL DATUM (N.A.V.D. 1988).
11. PRIOR TO MOVING OFF THE JOB THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER TO DO A FINAL WALK-THROUGH OF THE CONSTRUCTION SITE.
12. THE CONTRACTOR SHALL SUBMIT WRITTEN REQUEST TO THE PROJECT ENGINEER FOR APPROVAL OF ALL AREAS TO BE USED FOR STAGING, MOBILIZATION, EQUIPMENT AND MATERIAL STORAGE AND GENERAL PROJECT CONSTRUCTION MANAGEMENT. REQUEST SHALL BE SUBMITTED TO THE PROJECT ENGINEER WITHIN 5 DAYS OF THE NOTICE TO PROCEED.
13. NO EQUIPMENT OR MATERIAL SHALL BE DEPOSITED ON PRIVATE PROPERTY WITHOUT WRITTEN PERMISSION. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES RESULTING FROM SUCH ACTS AND SHALL REMOVE THE MATERIAL AND RESTORE THE PROPERTY AT THE EXPENSE OF THE CONTRACTOR.
14. CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO THE HOURS OF 7:00 AM TO 7:00 PM UNLESS APPROVED OR DIRECTED BY THE PROJECT ENGINEER.
15. THE CITY OF BENTONVILLE SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL DEMOLITION AND REMOVAL ITEMS SUCH AS SIGNAGE, POLES, SIGNAL EQUIPMENT, ETC. THE CONTRACTOR SHALL COORDINATE WITH PUBLIC WORKS FOR A TIME AND LOCATION TO DELIVER THOSE ITEMS TO THE CITY. CONSTRUCTION DEBRIS SUCH AS BROKEN CONCRETE, EXCESS FILL, ETC. SHALL BECOME THE PROPERTY OF THE CONTRACTOR. MATERIAL SHALL BE COMPLETELY REMOVED FROM THE SITE PRIOR TO ACCEPTANCE OF THE PROJECT. ALL MATERIAL SHALL BE DISPOSED OF IN A MANNER THAT IS IN COMPLIANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
16. UNLESS SPECIFICALLY STATED OTHERWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL EXISTING METERS, VALVES, VALVE BOXES, BUILDING DRAINS, STORM AND SANITARY MANHOLES, ETC., TO MATCH FINISHED GRADE. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL SANITARY SERVICE LINES WHERE REQUIRED TO MAINTAIN CONTINUOUS SERVICE. THE CONTRACTOR SHALL CONTACT CITY OF BENTONVILLE TO COORDINATE THE ADJUSTMENT OF EXISTING WATER FACILITIES.
17. THE CONTRACTOR SHALL PROTECT EXISTING RIGHT-OF-WAY AND SURVEY MONUMENTS. ANY MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE RESET AT THE CONTRACTOR'S EXPENSE BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF ARKANSAS.
18. THE CONTRACTOR SHALL PROVIDE THE PROJECT ENGINEER WITH A SCHEDULE OF OPERATIONS AT THE BEGINNING OF EACH WEEK.
19. ANY ESTIMATES OF QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY.
20. THE CONTOUR LINES & SPOT ELEVATIONS SHOWN ARE TO FINISH GRADE FOR SURFACE OF PAVEMENT, TOP OF GUTTERS AND CURBS, TOP OF FLOOR SLABS, ETC. REFER TO TYPICAL SECTIONS AND DETAILS FOR SLAB AND AGGREGATE BASE THICKNESS TO DEDUCT FOR GRADING LINE ELEVATIONS.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE PUBLIC STREETS IN THE VICINITY OF THE JOB SITE CLEAN AND FREE OF ROCKS, SOIL AND DEBRIS. CLEAN STREETS OF CONSTRUCTION DEBRIS DAILY.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL OF SURFACE EROSION DURING CONSTRUCTION AND UNTIL THE OWNER ACCEPTS THE WORK AS COMPLETE. THE CONTRACTOR SHALL UTILIZE AND COMPLY WITH ALL REQUIREMENT OF THE CITY OF BENTONVILLE'S LAND DISTURBANCE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). ALL EROSION AND SEDIMENT CONTROL PLANS SHALL BE INCORPORATED IN THE SWPPP. CONTRACTOR SHALL MAINTAIN THE SWPPP THROUGHOUT THE PROJECT AND COMPLETE THE REQUIRED DOCUMENTATION UNTIL THE SITE IS STABILIZED AND ACCEPTED BY THE PROJECT ENGINEER.
23. CONSTRUCTION ACCESS TO THE SITE SHALL BE LIMITED TO THE APPROVED TEMPORARY CONSTRUCTION ENTRANCE(S) AT THE EXIT OF THE WORK SITE AS DETERMINED BY THE CONTRACTOR. TEMPORARY CONSTRUCTION ENTRANCE SHALL HAVE SHOT ROCK FOR ITS SURFACE. THE CONTRACTOR SHALL UPDATE SWPPP FOR EACH PHASE OF THE PROJECT TO SHOW THE LOCATION OF TEMPORARY CONSTRUCTION ENTRANCE AND CONCRETE CLEAN OUT.
24. EROSION CONTROL DEVICES SHALL BE MAINTAINED DURING THE ENTIRE CONSTRUCTION PERIOD BY THE CONTRACTOR.
25. CONTRACTOR TO PROTECT ANY STORM INLETS FROM SEDIMENT THAT TAKE STORM WATER FROM THE AREA OF CONSTRUCTION.
26. ALL DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLAN.
27. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING BERMS, SILT FENCES, OR OTHER MEANS TO PREVENT ERODED MATERIALS FROM REACHING ADJACENT PROPERTIES. IN THE EVENT THE PREVENTION MEASURES ARE NOT EFFECTIVE, THE CONTRACTOR SHALL REMOVE ANY DEBRIS, SILT, OR MUD AND RESTORE THE PROPERTIES TO ORIGINAL OR BETTER CONDITION.
28. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DOWNSTREAM EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION. EROSION CONTROL PROCEDURES SHALL BE IN PLACE PRIOR TO BEGINNING GRADING ACTIVITIES.
29. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE SEDIMENT CONTROL BARRIERS DURING CONSTRUCTION OR UNTIL THEY ARE RELEASED FROM THIS RESPONSIBILITY BY THE PROJECT ENGINEER.
30. THE CONTRACTOR SHALL CLEAN OUT ALL EXISTING AND PROPOSED INLETS, PIPES AND MANHOLES OF DEBRIS AND SEDIMENTATION AT COMPLETION OF SITEWORK. THIS WORK SHALL BE DONE TO THE SATISFACTION OF THE OWNER & ENGINEER.
31. STRIPPINGS ARE TO BE STOCKPILED. FOLLOWING THE COMPLETION OF THE GRADING, THIS TOPSOIL SHALL BE USED AS FILL MATERIAL ON AREAS BETWEEN THE SIDEWALK AND BACK OF CURB. IF STOCKPILE IS INACTIVE FOR MORE THAN 14 DAYS, STABILIZE OR PROTECT THE PERIMETER AS PER SPECIFICATIONS.
32. ALL HERBACEOUS VEGETATION SHALL BE REMOVED FROM WITHIN THE LIMITS OF THE GRADING AND REDISTRIBUTED WITH THE TOPSOIL.
33. THE CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN IN THE PLANS, NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL EXCEPT WHERE NOTED ON THE PLANS.
34. ALL BACKFILL SHALL BE TAMPED. BACKFILL WITHIN THE RIGHT-OF-WAY SHALL BE COMPACTED TO 95% MAX. DENSITY AS PER ASTM-D698 (STANDARD PROCTOR COMPACTION).

35. THE CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY DUE TO ACTUAL LOCATION OF EXISTING FACILITIES.
36. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER EXISTING LINES NOT SHOWN WITHIN THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIRS OF SUCH STRUCTURES WHEN BROKEN OR OTHERWISE DAMAGED BY CONSTRUCTION ACTIVITIES.
37. NO SEPARATE MEASUREMENTS AND PAYMENT WILL BE MADE FOR TRENCH EXCAVATION AND BACKFILL REQUIRED FOR STORM SEWER CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF MATERIAL FROM STORM SEWER TRENCHING.
38. CONTRACTOR SHALL PROTECT ALL EXISTING BUILDINGS DURING CONSTRUCTION. PRIOR TO BEGINNING THE CONTRACTOR SHALL COLLECT CONSTRUCTION PHOTOS/VIDEOS OF ALL EXISTING STRUCTURES WITHIN 50 FT OF LIMITS OF CONSTRUCTION TO DOCUMENT EXISTING STRUCTURE CONDITIONS.
39. CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE CONVEYANCE DURING CONSTRUCTION.
40. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL PRECAST CONCRETE STRUCTURES AND PIPE FOR REVIEW AND APPROVAL BY THE PROJECT ENGINEER. THE SHOP DRAWINGS MUST BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF ARKANSAS. THE CONTRACTOR MUST RECEIVE APPROVAL OF THE SUBMITTED SHOP DRAWINGS PRIOR TO FABRICATION. FAILURE TO DO SO SHALL BE CAUSE FOR REJECTION.
41. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS TO ALL BUSINESSES AT ALL TIMES IN ACCORDANCE WITH THE CITY OF BENTONVILLE, ADA, PROWAG, AND MUTCD REQUIREMENTS, INCLUDING TEMPORARY ACCESS AND SAFETY REQUIREMENTS TO COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.
42. NO EQUIPMENT, MATERIALS, AND/OR DEBRIS SHALL BE STORED WITHIN THE TREE DRIPLINE (IN ALL DIRECTIONS).
43. NO PRUNING SHALL BE PERFORMED EXCEPT BY OR IN THE PRESENCE OF AN APPROVED LICENSED ARBORIST.
44. ALL STORM SEWER PIPE LENGTHS ARE MEASURED FROM THE INSIDE FACE OF THE DOWNSTREAM STRUCTURE TO THE INSIDE FACE OF UPSTREAM STRUCTURE ALONG THE CENTERLINE, (FOR BIDDING AND PAYMENT PURPOSE ONLY)
45. THE LOCATION POINT FOR ALL STORM SEWER STRUCTURES SHALL BE CENTER OF STRUCTURE AND ALL DIMENSIONS ARE INSIDE OF STRUCTURE WIDTHS AS INDICATED ON PLAN SHEETS.
46. TRIPLE AND DOUBLE INLETS TO HAVE OPENING ALLOWING DRAINAGE BETWEEN THE TWO STRUCTURES, OPEN AREA TO BE GREATER THAN OR EQUAL TO DOWNSTREAM OPENING AREA.
47. GROSS EARTHWORK QUANTITIES ARE CALCULATED FROM THE EXISTING GRADE SURFACE TO THE FINISHED GRADE SURFACE AND DO NOT INCLUDE ADDITIONS FOR GRANULAR BACKFILL, STORM SEWER, CURB AND GUTTER, ETC.

QUANTITY SUMMARY			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
1	Insurance and Bonding	1	LS
2	Mobilization	1	LS
3	Temporary Traffic Control	1	LS
4	Erosion and Sediment Control	1	LS
5	Tree Removal, Clearing & Grubbing	1	LS
6	Demolition	1	LS
7	Type A Curb & Gutter	480	LF
8	Asphaltic Pavement	675	SY
9	Sidewalk	206	SY
10	Haul-In Fill	1525	CY
11	Excavation	4210	CY
12	Seeding	3.7	AC
13	10'X3' Triple Neenah R-3295-R	1	EA
14	4'X4' Area Inlet	3	EA
15	Detention Outlet	1	EA
16	Headwall	1	EA
17	48"X24" RCB	822	LF
18	38"X24" HERCP	183	LF
19	30"X19" HERCP FES	1	EA

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302 East Millsap Road
Fayetteville, AR 72703
www.olsson.com
TEL 479-443-4304

60%
PRELIMINARY
PLANS
NOT FOR
CONSTRUCTION

REVISIONS DESCRIPTION

DATE

REV. NO.

2022

GENERAL NOTES

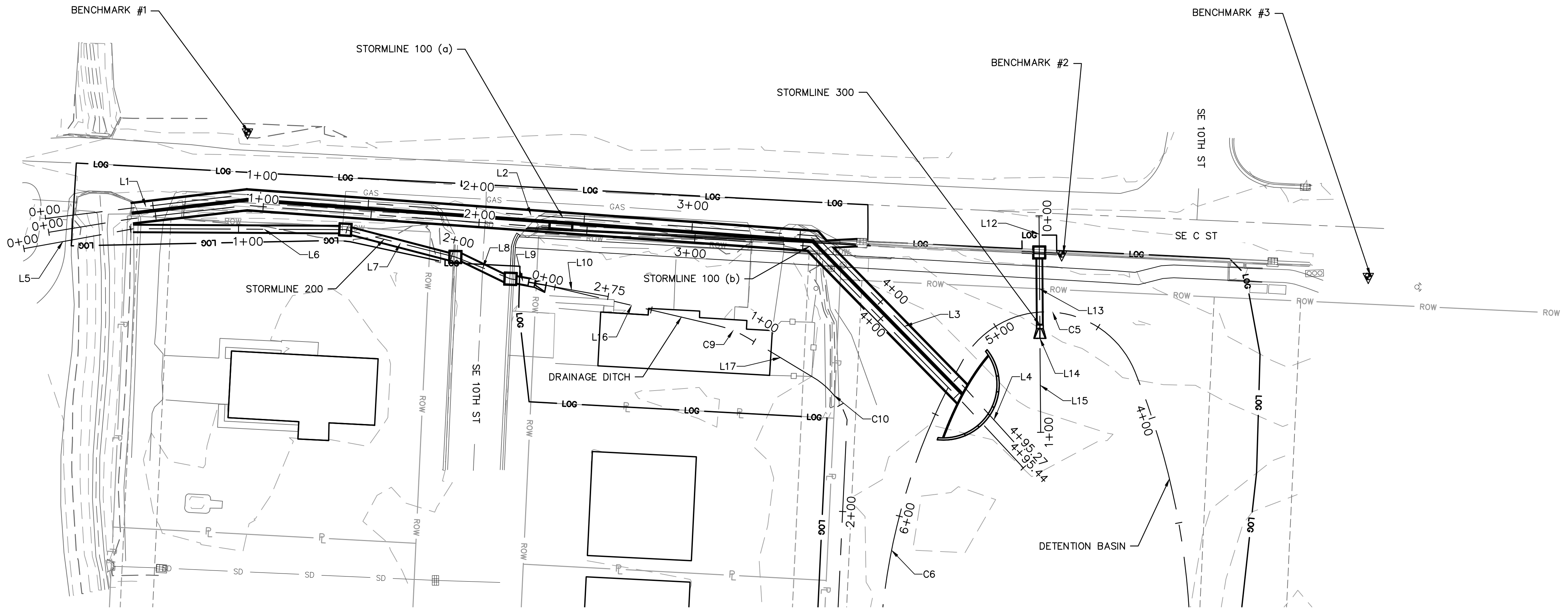
SE 10TH STREET AND SE C STREET
PRELIMINARY DESIGN

BENTONVILLE, AR

REVISIONS

drawn by: RPM
 designed by: ADB
 checked by: BPS
 project no.: E21-04210
 drawing no.: W_GEN01_E2104210
 date: 09.01.2022

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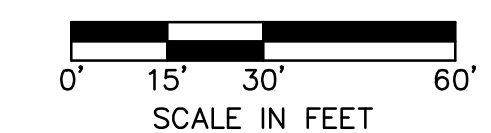
LEGEND

- CONTROL POINT / BENCH MARK
- SUBDIVISION LINE
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- UTILITY EASEMENT

STORMLINE 100(a)								
NO.	STATION	NORTHING	EASTING	LENGTH	LINE/CHORD BEARING	DELTA	TANGENT	RADIUS
L1	0+00.00 0+93.34	745117.0321 745209.7075	662849.0356 662837.9522	93.34'	N6°49'11"W			
L2	0+93.34 3+57.21	745209.7075 745472.8873	662837.9522 662857.0918	263.87'	N4°09'34"E			
L3	3+57.21 4+55.89	745472.8873 745542.0261	662857.0918 662927.5053	98.68'	N45°31'24"E			
L4	4+55.89 4+95.27	745542.0261 745568.4720	662927.5053 662956.6760	39.37'	N47°48'17"E			
Stormline 200								
NO.	STATION	NORTHING	EASTING	LENGTH	LINE/CHORD BEARING	DELTA	TANGENT	RADIUS
L5	0+00.00 0+51.78	745107.0548 745158.0052	662862.9814 662853.7676	51.78'	N10°15'02"W			
L6	0+51.78 1+49.33	745158.0052 745255.5582	662853.7676 662854.2158	97.55'	N0°15'48"E			
L7	1+49.33 2+01.71	745255.5582 745306.3911	662854.2158 662866.8358	52.38'	N13°56'33"E			
L8	2+01.71 2+29.12	745306.3911 745331.8827	662866.8358 662876.9302	27.42'	N21°36'11"E			
L9	2+29.12 2+40.54	745331.8827 745343.1098	662876.9302 662878.9924	11.41'	N10°24'29"E			
L10	2+40.54 2+75.00	745343.1098 745377.0265	662878.9924 662885.0837	34.46'	N10°10'54"E			
STORMLINE 300								
NO.	STATION	NORTHING	EASTING	LENGTH	LINE/CHORD BEARING	DELTA	TANGENT	RADIUS
L12	0+00.00 0+16.88	745576.1275 745576.2328	662847.8739 662864.7571	16.88'	N89°38'33"E			
L13	0+16.88 0+50.43	745576.2328 745576.5334	662864.7571 662898.3050	33.55'	N89°29'12"E			
L14	0+50.43 0+56.58	745576.5334 745576.5334	662898.3050 662904.4509	6.15'	N90°00'00"E			
L15	0+56.58 1+00.00	745576.5334 745576.8928	662904.4509 662947.8705	43.42'	N89°31'33"E			

BENCHMARK

- BM #1
FIRE HYDRANT
N: 745210.39
E: 662809.15
ELEV. = 1284.50
- BM #2
N: 745586.52
E: 662865.68
ELEV. = 1288.16
- BM #3
FIRE HYDRANT
N: 745727.66
E: 662875.79
ELEV. = 1288.26



NOTE: NORTH AMERICAN DATUM 1983 (NAD 83) AND NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88) USED FOR SURVEY.

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302 East Millisp Road
Fayetteville, AR 72703
TEL 479.443.4304
www.olson.com

60%
PRELIMINARY
PLANS
NOT FOR
CONSTRUCTION

REVISIONS DESCRIPTION

DATE

REV. NO.

SURVEY CONTROL & ALIGNMENT

SE 10TH STREET AND SE C STREET
PRELIMINARY DESIGN

REVISIONS

2022

BENTONVILLE, AR

drawn by: RPM
 designed by: ADB
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 project no.: E21-04210
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SHEET
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 USER: aboil

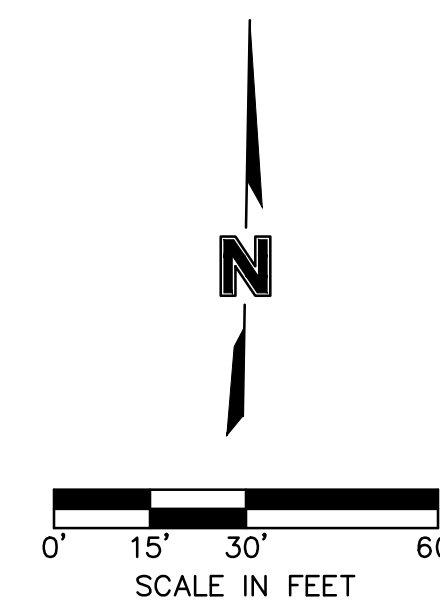


Detention Basin Alignment									
NO.		STATION	NORTHING	EASTING	LENGTH	LINE/CHORD BEARING	DELTA	TANGENT	RADIUS
C1	PC=	0+00.00	745561.9169	663314.9112	19.78'	S64°13'10"W	41°49'21"	10.35'	27.10'
	PI=	0+10.35	745554.3824	663307.8090					
	PT=	0+19.78	745553.5035	663297.4922					
C2	PC=	0+19.78	745553.5035	663297.4922	2.53'	N80°23'35"W	28°57'11"	1.29'	5.00'
	PI=	0+21.07	745553.3939	663296.2060					
	PT=	0+22.31	745553.9207	663295.0275					
C3	PC=	0+22.31	745553.9207	663295.0275	30.40'	N58°01'17"W	15°47'25"	15.30'	110.32'
	PI=	0+37.61	745560.1635	663281.0609					
	PT=	0+52.71	745569.9712	663269.3201					
C4	PC=	0+52.71	745569.9712	663269.3201	370.09'	N81°46'30"W	60°36'45"	204.48'	349.84'
	PI=	2+57.19	745697.3521	663109.3600					
	PT=	4+22.80	745620.4829	662919.8759					
C5	PC=	4+22.80	745620.4829	662919.8759	99.07'	S3°52'30"W	128°05'14"	91.04'	44.32'
	PI=	5+13.84	745586.2598	662835.5154					
	PT=	5+21.88	745540.9729	662914.4901					
C6	PC=	5+21.88	745540.9729	662914.4901	188.47'	S78°39'34"E	36°58'55"	97.65'	291.99'
	PI=	6+19.52	745492.3975	662999.1994					
	PT=	7+10.34	745504.5523	663096.0885					
C7	PC=	7+10.34	745504.5523	663096.0885	298.09'	S86°58'59"E	20°20'05"	150.63'	839.92'
	PI=	8+60.98	745523.3021	663245.5482					
	PT=	10+08.44	745488.9459	663392.2091					
C8	PC=	10+08.44	745488.9459	663392.2091	101.97'	S83°59'06"E	14°20'17"	51.25'	407.47'
	PI=	10+59.69	745477.2562	663442.1100					
	PT=	11+10.41	745478.2884	663493.3515					

DRAINAGE DITCH									
NO.		STATION	NORTHING	EASTING	LENGTH	LINE/CHORD BEARING	DELTA	TANGENT	RADIUS
L16	PC=	0+00.00	745348.2777	662879.9174	81.19'	N13°12'33"E			
	PI=	0+81.19	745427.3168	662898.4691					
	PT=	0+81.19	745427.3168	662898.4691					
C9	PC=	0+81.19	745427.3168	662898.4691	15.61'	N22°09'15"E	17°53'25"	7.87'	50.00'
	PI=	0+89.06	745434.9788	662900.2674					
	PT=	0+96.80	745441.7178	662904.3326					
L17	PC=	0+96.80	745441.7178	662904.3326	34.91'	N31°05'58"E			
	PI=	1+31.71	745471.6135	662922.3664					
	PT=	1+31.71	745471.6135	662922.3664					
C10	PC=	1+31.71	745471.6135	662922.3664	25.83'	N51°15'32"E	42°20'22"	13.54'	34.96'
	PI=	1+45.25	745483.3266	662929.1532					
	PT=	1+57.54	745487.4134	662942.0589					
L18	PC=	1+57.54	745487.4134	662942.0589	634.99'	S87°15'50"E			
	PI=	7+92.53	745457.1011	663576.3244					
	PT=	7+92.53	745457.1011	663576.3244					

LEGEND

- CONTROL POINT / BENCH MARK
- SUBDIVISION LINE
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- UTILITY EASEMENT



NOTE: NORTH AMERICAN DATUM 1983 (NAD 83) AND NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88) USED FOR SURVEY.

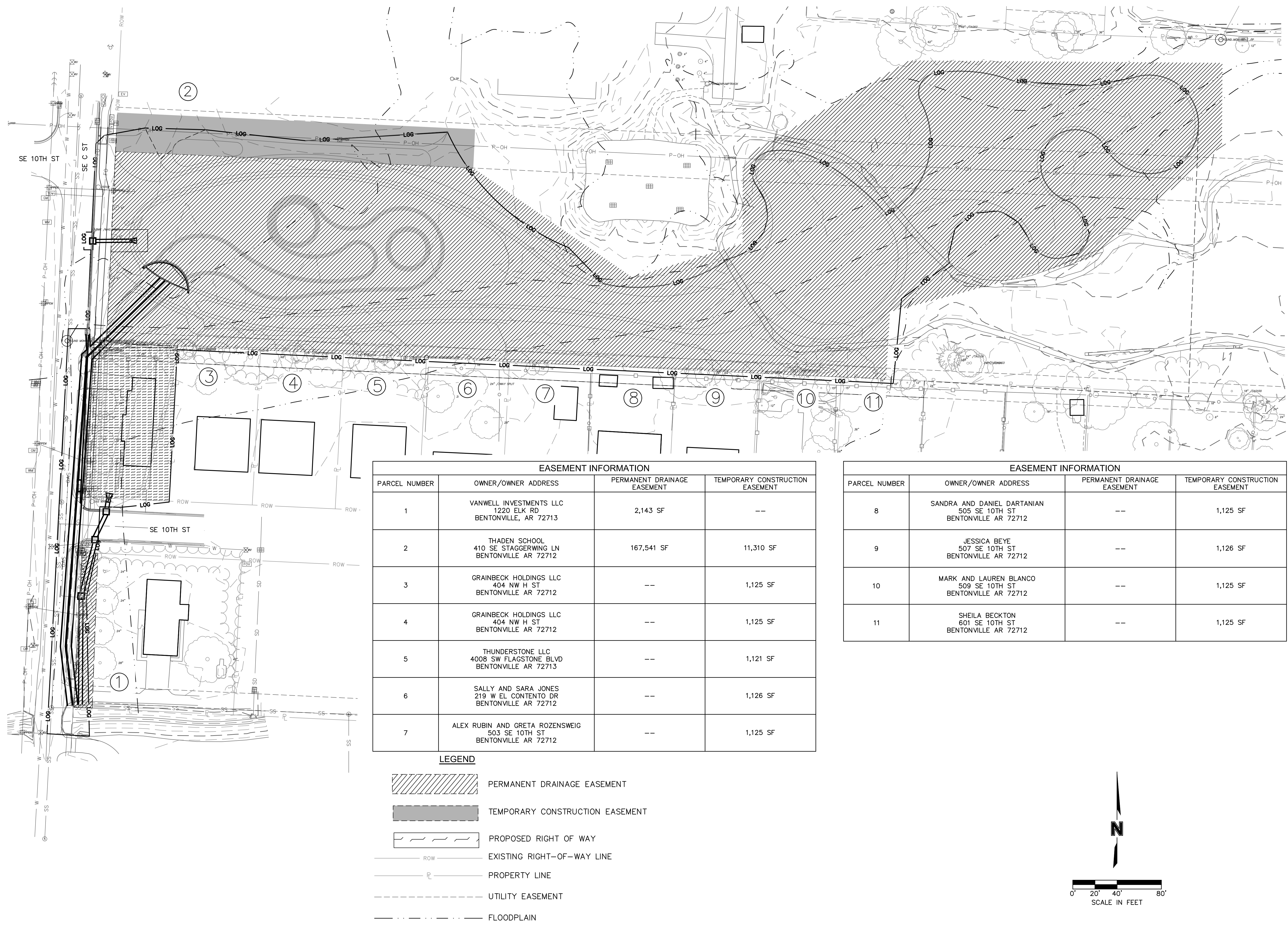
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SURVEY CONTROL & ALIGNMENT
 SE 10TH STREET AND SE C STREET
 PRELIMINARY DESIGN
 BENTONVILLE, AR
 2022

drawn by: RPM
 designed by: ADB
 checked by: BPS
 project no.: E21-04210
 drawing no.: W_ALI01_E2104210
 date: 09.01.2022

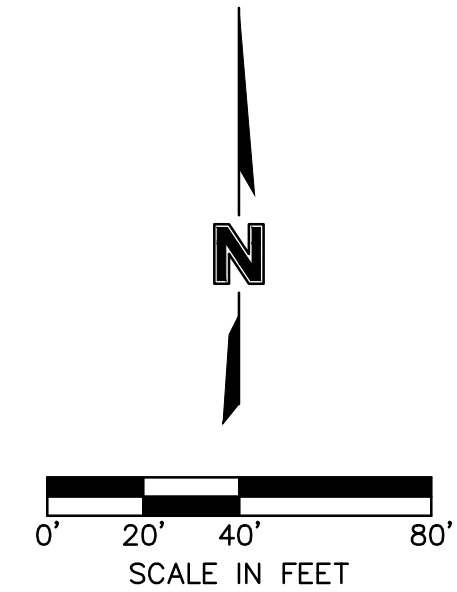
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 USER: aboll



EASEMENT INFORMATION			
PARCEL NUMBER	OWNER/OWNER ADDRESS	PERMANENT DRAINAGE EASEMENT	TEMPORARY CONSTRUCTION EASEMENT
1	VANWELL INVESTMENTS LLC 1220 ELK RD BENTONVILLE, AR 72713	2,143 SF	--
2	THADEN SCHOOL 410 SE STAGGERWING LN BENTONVILLE AR 72712	167,541 SF	11,310 SF
3	GRAINBECK HOLDINGS LLC 404 NW H ST BENTONVILLE AR 72712	--	1,125 SF
4	GRAINBECK HOLDINGS LLC 404 NW H ST BENTONVILLE AR 72712	--	1,125 SF
5	THUNDERSTONE LLC 4008 SW FLAGSTONE BLVD BENTONVILLE AR 72713	--	1,121 SF
6	SALLY AND SARA JONES 219 W EL CONTENTO DR BENTONVILLE AR 72712	--	1,126 SF
7	ALEX RUBIN AND GRETA ROZENSWEIG 503 SE 10TH ST BENTONVILLE AR 72712	--	1,125 SF

EASEMENT INFORMATION			
PARCEL NUMBER	OWNER/OWNER ADDRESS	PERMANENT DRAINAGE EASEMENT	TEMPORARY CONSTRUCTION EASEMENT
8	SANDRA AND DANIEL DARTANIAN 505 SE 10TH ST BENTONVILLE AR 72712	--	1,125 SF
9	JESSICA BEYE 507 SE 10TH ST BENTONVILLE AR 72712	--	1,126 SF
10	MARK AND LAUREN BLANCO 509 SE 10TH ST BENTONVILLE AR 72712	--	1,125 SF
11	SHEILA BECKTON 601 SE 10TH ST BENTONVILLE AR 72712	--	1,125 SF

- LEGEND**
- PERMANENT DRAINAGE EASEMENT
 - TEMPORARY CONSTRUCTION EASEMENT
 - PROPOSED RIGHT OF WAY
 - EXISTING RIGHT-OF-WAY LINE
 - PROPERTY LINE
 - UTILITY EASEMENT
 - FLOODPLAIN



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RIGHT OF WAY EASEMENT PLAN

SE 10TH STREET AND SE C STREET
PRELIMINARY DESIGN

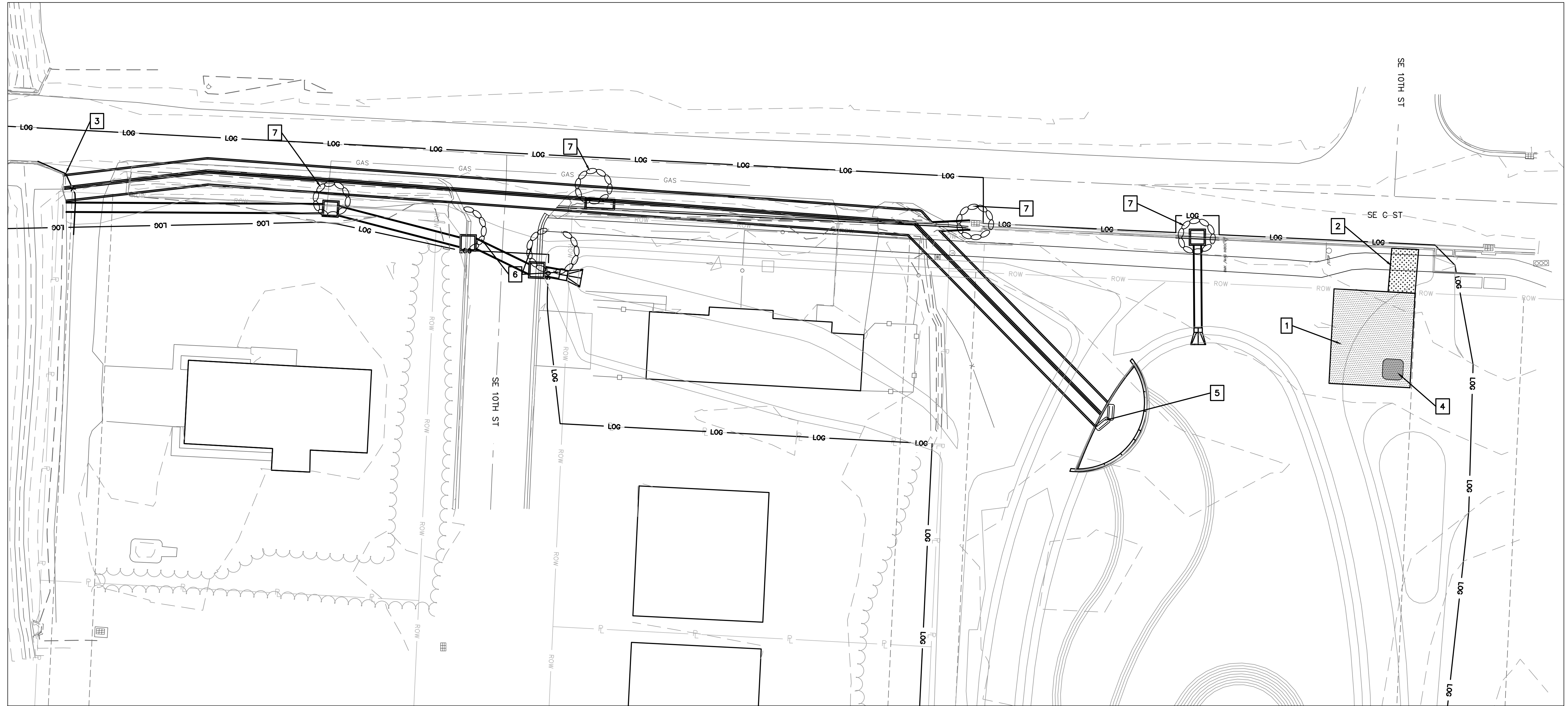
BENTONVILLE, AR

2022

drawn by: RPM
 designed by: ADB
 checked by: BPS
 project no.: E21-04210
 drawing no.: W_ESM01_E2104210
 date: 09.01.2022

SHEET
5 of 16

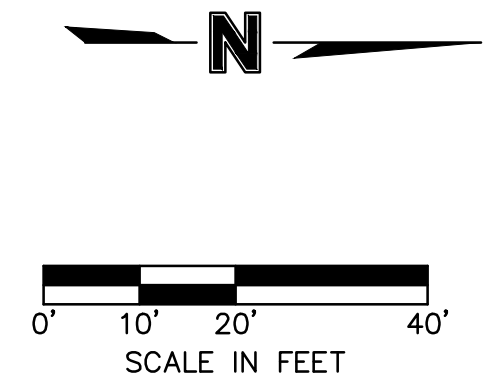
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 V_XTOPO_E2104210 V_XBNDY_E2104210



LEGEND

- PROPOSED STORM SEWER
- PROPERTY LINE
- RIGHT OF WAY LINE
- TEMPORARY CONSTRUCTION FENCE
- GRAVEL BAGS
- SEDIMENT LOGS
- EROSION CONTROL BMP REFERENCE NUMBER
- CONCRETE WASHOUT
- STABILIZED CONSTRUCTION EXIT
- STAGING AREA

EROSION AND SEDIMENT CONTROL STAGING CHART				
PROJECT STAGE	EROSION CONTROL PLAN BMP REFERENCE NO.	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES
A - PRIOR TO CLEARING AND GRUBBING	1	STAGING AREA	C	INSTALL AS SHOWN ON PLANS
	2	STABILIZED CONSTRUCTION EXIT	C	INSTALL AS SHOWN ON PLANS
	3	TEMPORARY CONSTRUCTION FENCE	C	INSTALL AS SHOWN ON PLANS
B - STORM SEWER INSTALLATION	4	CONCRETE WASHOUT	C	INSTALL PRIOR TO POURING CONCRETE
	5	J-HOOK CURB INLET PROTECTION	C	PROTECT INLET OPENINGS IN SUMP WITH GRAVEL BAGS
	6	SEDIMENT LOG CURB INLET PROTECTION (ON GRADE)	C	PROTECT ON-GRADE AND AREA INLET OPENINGS WITH SEDIMENT LOGS
	7	SEDIMENT LOG	C	INSTALL AS SHOWN ON PLANS
C - SURFACE RESTORATION	8	PERMANENT RIPRAP	N/A	INSTALL AS SHOWN ON PLANS
		ESTABLISH VEGETATION	N/A	REDISTRIBUTE TOPSOIL AND SEED ALL DISTURBED AREAS
		PAVEMENT INSTALLATION	N/A	COMPLETE PAVEMENT RESTORATION



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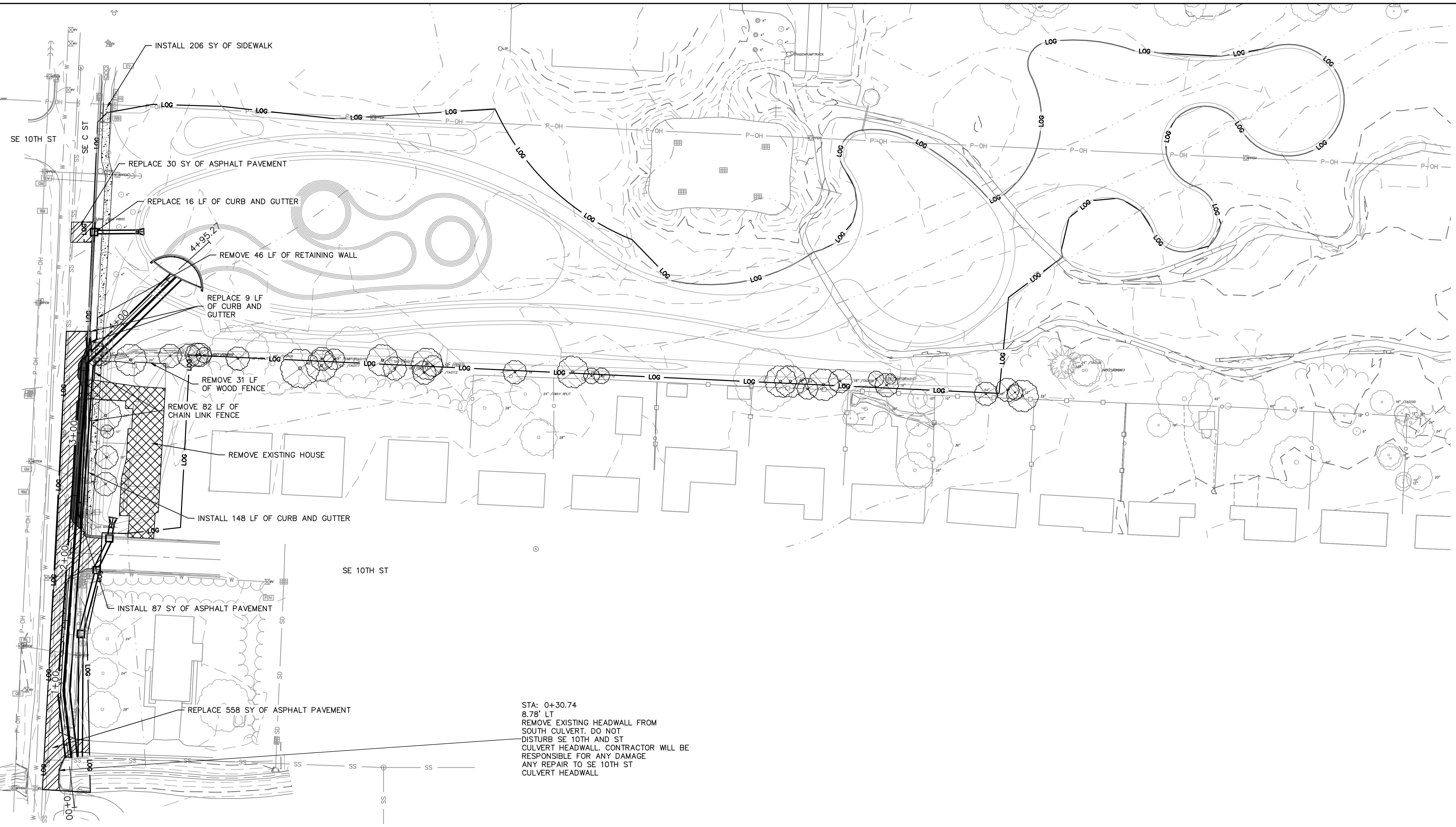
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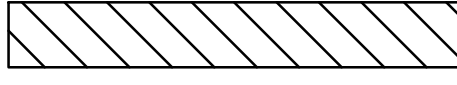


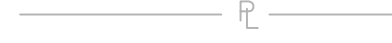





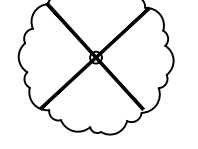
EROSION CONTROL PLAN
 SE 10TH STREET AND SE C STREET
 PRELIMINARY DESIGN
 BENTONVILLE, AR
 2022

drawn by: RPM
 designed by: ADB
 checked by: BPS
 project no.: E21-04210
 drawing no.: W_ERC01_E2104210
 date: 09.01.2022

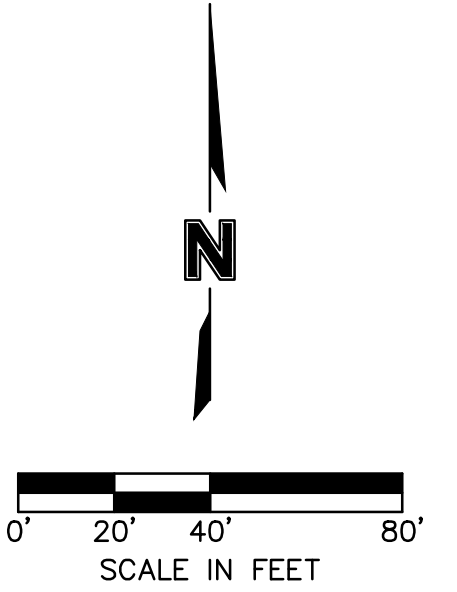
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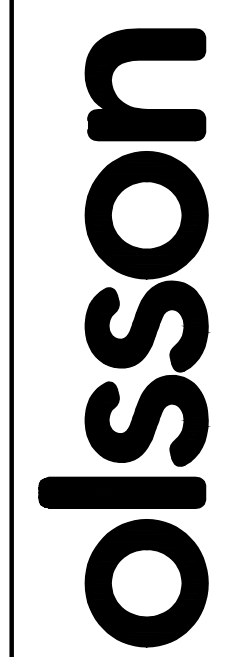


LEGEND

- | | | | |
|---|--------------------------------|--|--------------------|
|  | ASPHALT PAVEMENT REPLACEMENT |  | DEMOLISH STRUCTURE |
|  | SIDEWALK REPLACEMENT |  | PROPERTY LINE |
|  | FILL DITCH AND EXTEND PAVEMENT |  | RIGHT OF WAY LINE |
|  | HOUSE REMOVAL |  | EXISTING EASEMENT |
| | |  | LIMITS OF GRADING |
| | |  | TREE REMOVAL |

STA: 0+30.74
 8.78' LT
 REMOVE EXISTING HEADWALL FROM
 SOUTH CULVERT. DO NOT
 DISTURB SE 10TH AND ST
 CULVERT HEADWALL. CONTRACTOR WILL BE
 RESPONSIBLE FOR ANY DAMAGE
 ANY REPAIR TO SE 10TH ST
 CULVERT HEADWALL





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DEMOLITION AND PAVEMENT REPAIR PLAN

SE 10TH STREET AND SE C STREET
PRELIMINARY DESIGN

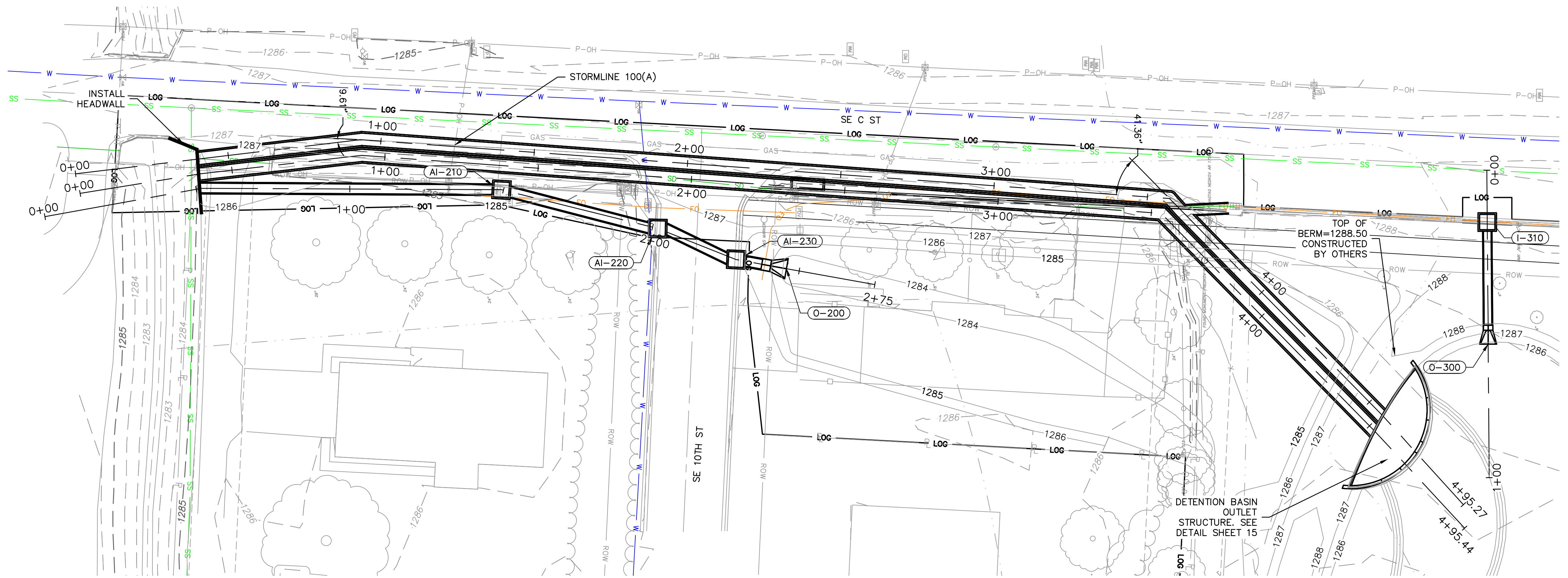
2022

BENTONVILLE, AR

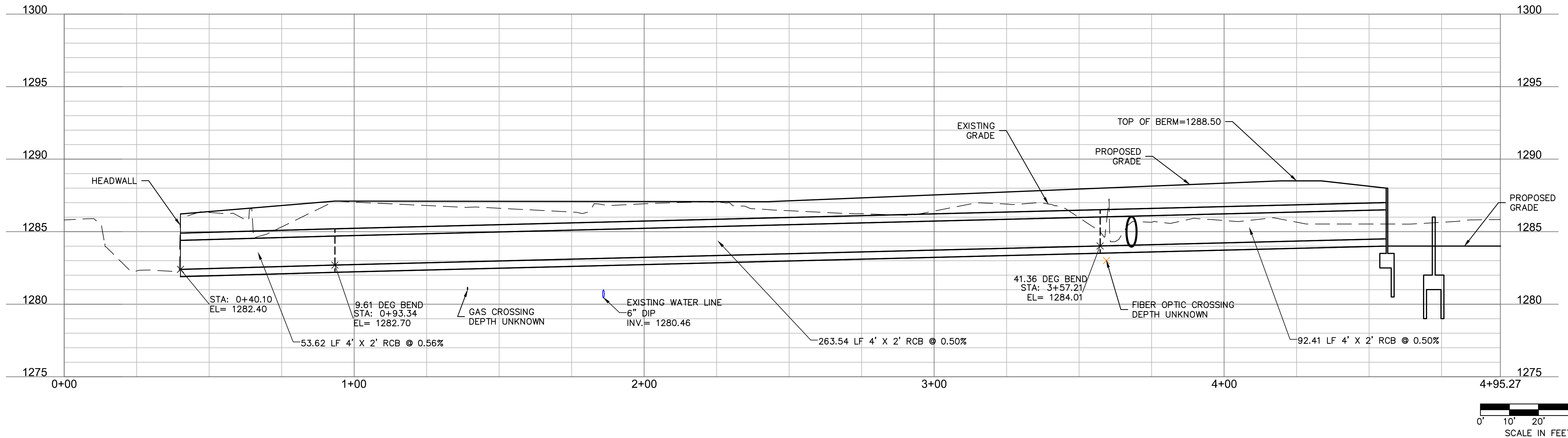
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designed by:	ADB
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SHEET
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STORMLINE 100(A) (0+00 - 4+95.27)



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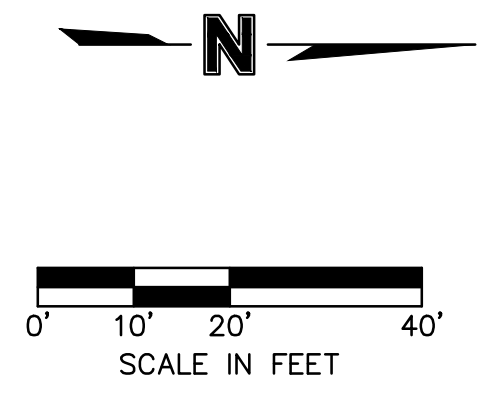
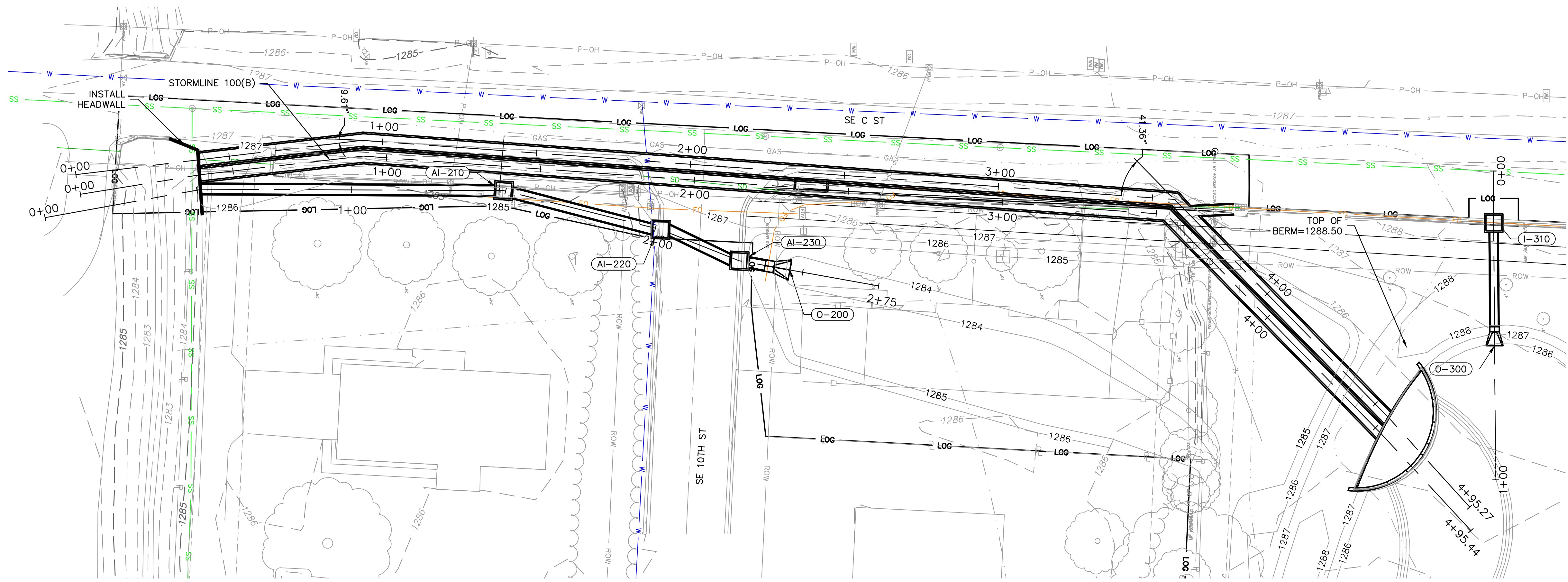
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SE 10TH STREET AND SE C STREET
PRELIMINARY DESIGN
BENTONVILLE, AR

REVISIONS
2022

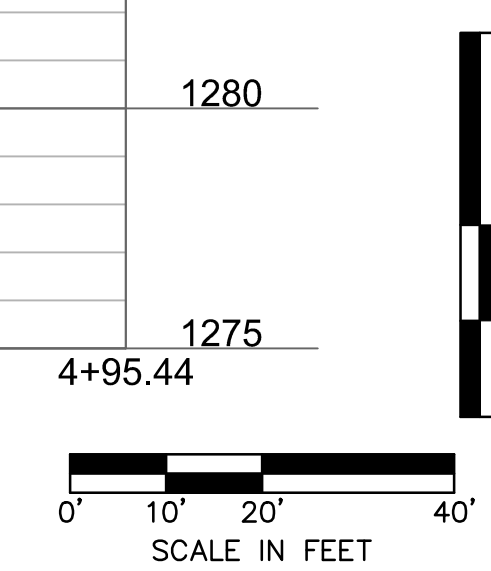
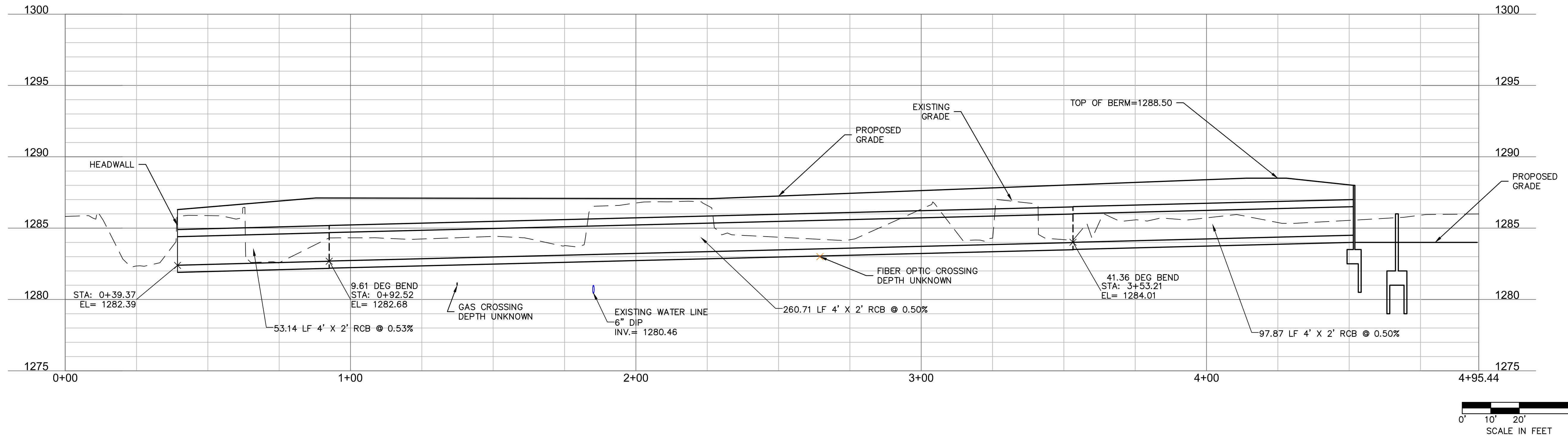
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 drawing no.: W_STM01_E2104210
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STORMLINE 100 (B) (0+00 - 4+95.44)



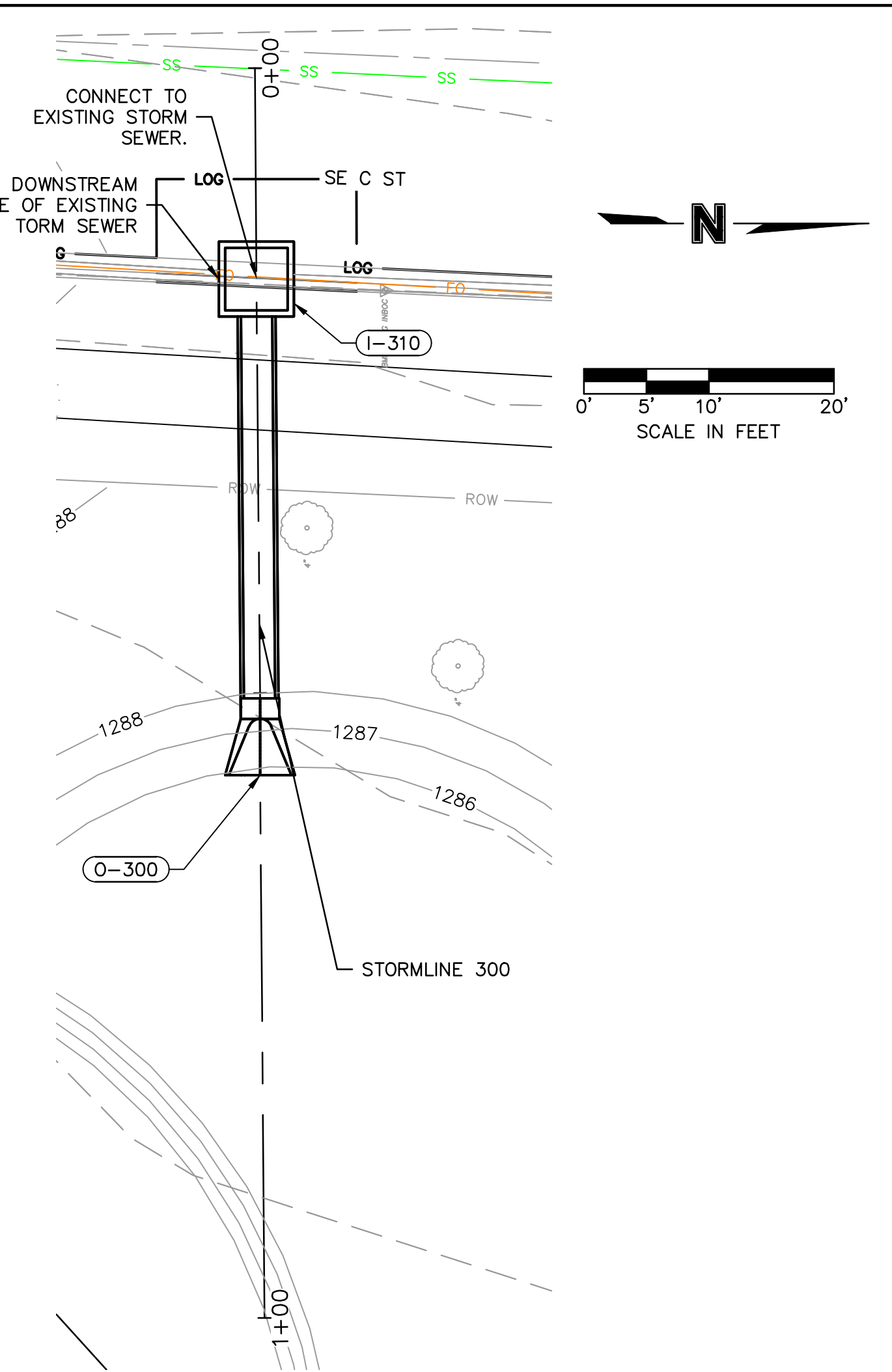
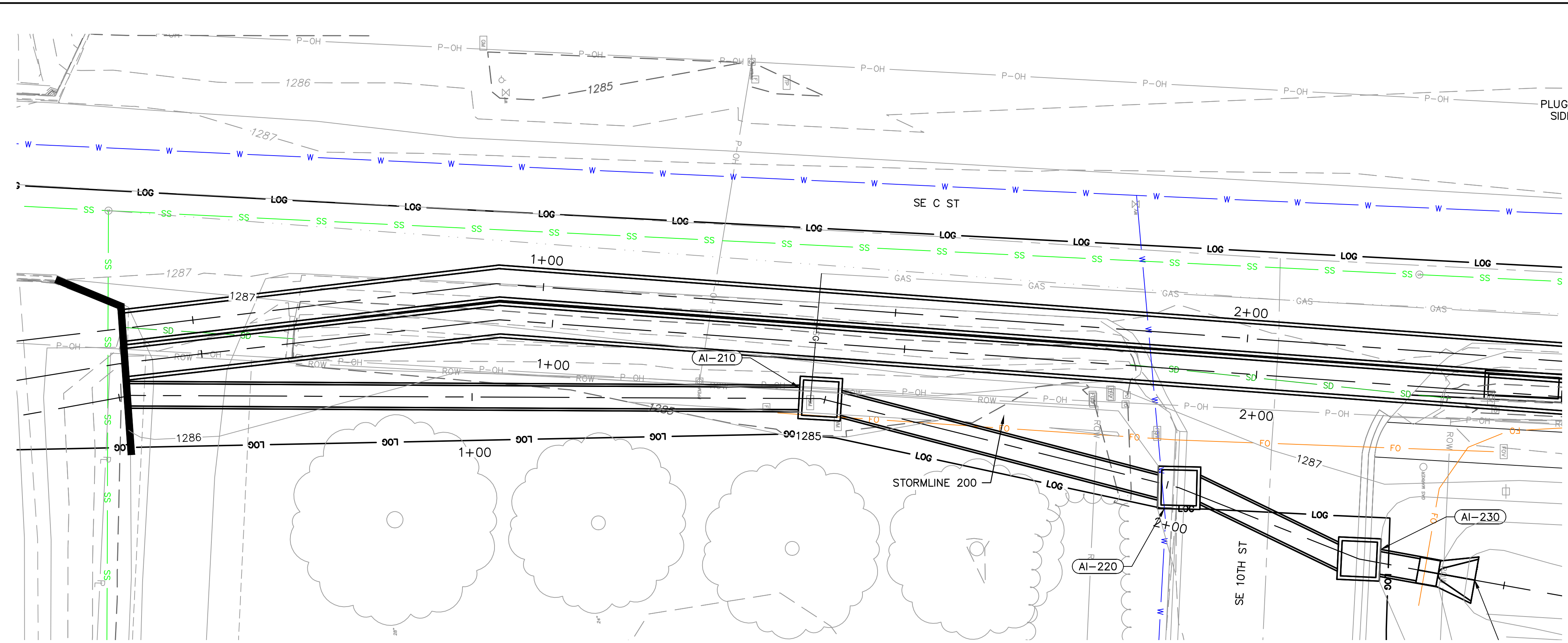
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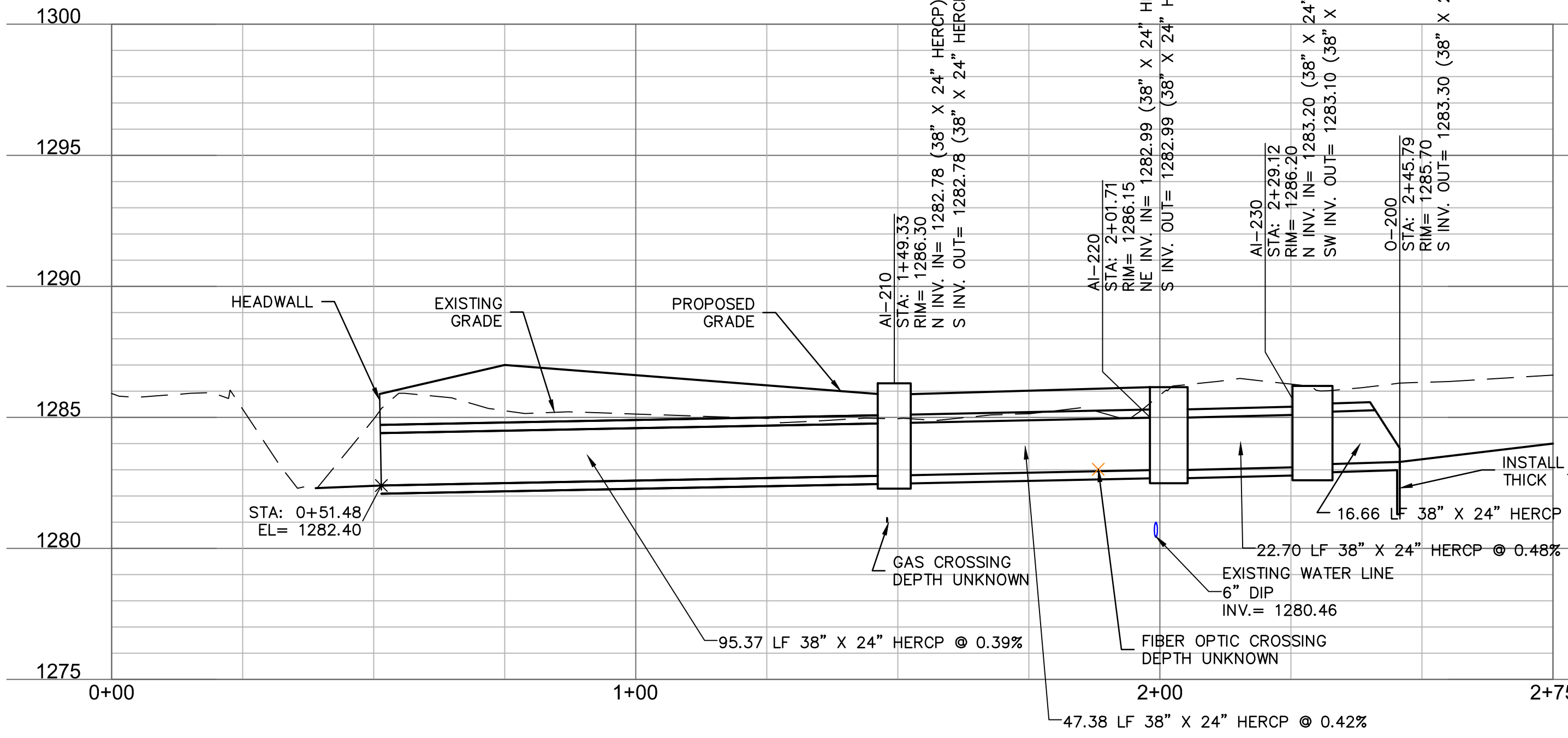
STORMLINE 100(B)
 SE 10TH STREET AND SE C STREET
 PRELIMINARY DESIGN
 BENTONVILLE, AR
 2022

drawn by: RPM
 designed by: ADB
 checked by: BPS
 project no.: E21-04210
 drawing no.: W_STM01_E2104210
 date: 09.01.2022

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STORMLINE 200 (1) (0+00 - 2+75)

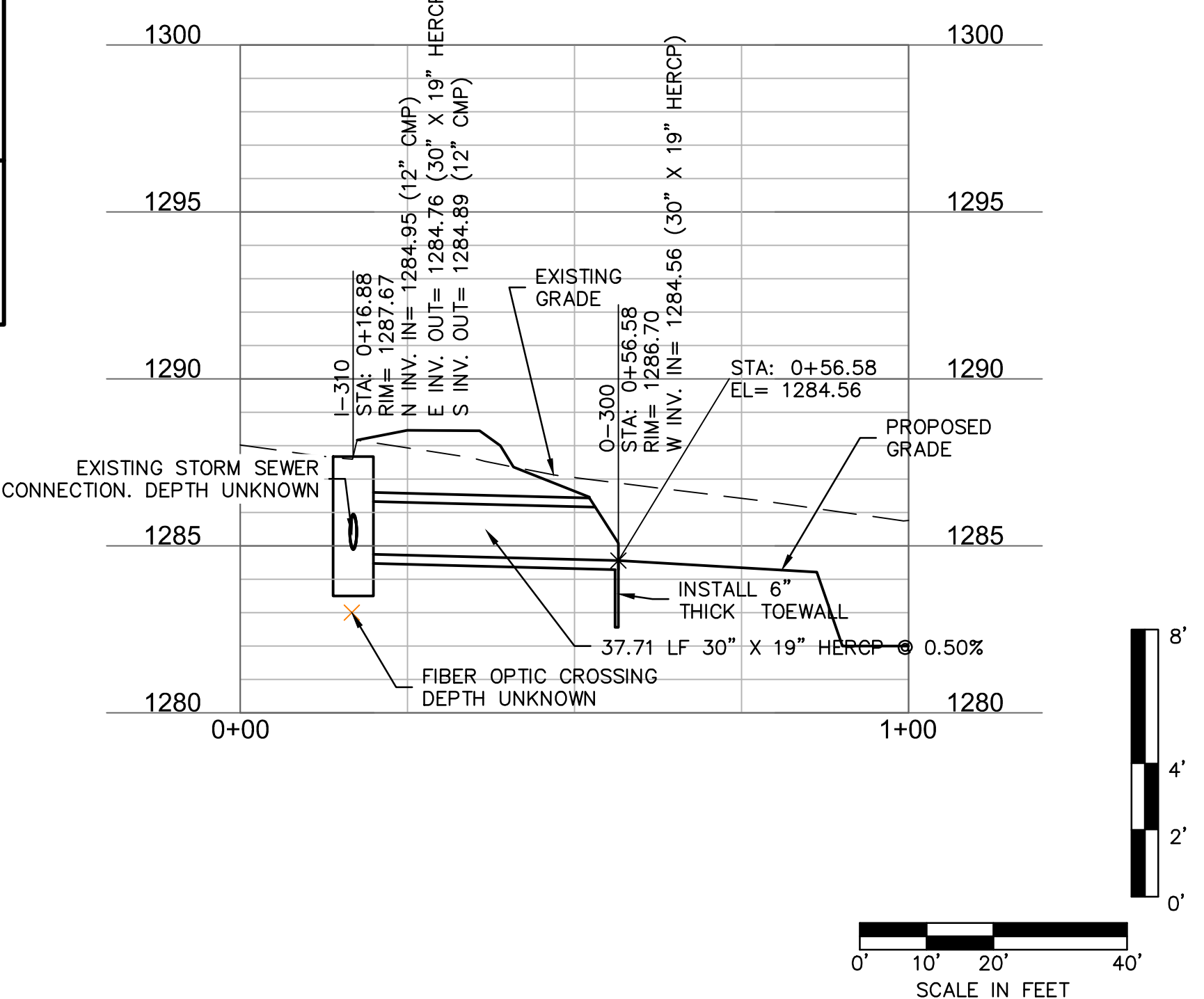


STRUCTURES	
ID	DESCRIPTION
AI-210	AREA INLET 5'X5' 1+49.33, 0.00' STORMLINE 200 (1) RIM= 1286.30 INV IN = 1282.78 (38" X 24" HERCP) INV OUT = 1282.78 (38" X 24" HERCP) N: 745255.558; E: 662854.216
AI-220	AREA INLET 5'X5' 2+01.71, 0.00' STORMLINE 200 (1) RIM= 1286.15 INV IN = 1282.99 (38" X 24" HERCP) INV OUT = 1282.99 (38" X 24" HERCP) N: 745306.391; E: 662866.836
AI-230	AREA INLET 5'X5' 2+29.12, 0.00' STORMLINE 200 (1) RIM= 1286.20 INV IN = 1283.20 (38" X 24" HERCP) INV OUT = 1283.10 (38" X 24" HERCP) N: 745331.883; E: 662876.930
O-200	36" FES 2+45.79, 0.00' LT STORMLINE 200 (1) RIM= 1285.70 INV OUT = 1283.30 (38" X 24" HERCP) N: 745348.278; E: 662879.917

STRUCTURES	
ID	DESCRIPTION
I-310	5' X 5' - JUNCTION BOX 0+16.88, 0.00' STORMLINE 300 RIM= 1287.67 INV IN = 1284.95 (12" CMP) INV OUT = 1284.76 (30" X 19" HERCP) INV OUT = 1284.89 (12" CMP) N: 745576.233; E: 662864.757
O-300	30" FES 0+56.58, 0.00' STORMLINE 300 RIM= 1286.70 INV IN = 1284.56 (30" X 19" HERCP) N: 745576.533; E: 662904.451

NOTE: STRUCTURE COORDINATES ARE TO THE CENTER OF STRUCTURE.

STORMLINE 300 (0+00 - 1+00)



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STORMLINE 200 & 300

SE 10TH STREET AND SE C STREET

PRELIMINARY DESIGN

BENTONVILLE, AR

2022

drawn by: RPM

designed by: ADB

checked by: BPS

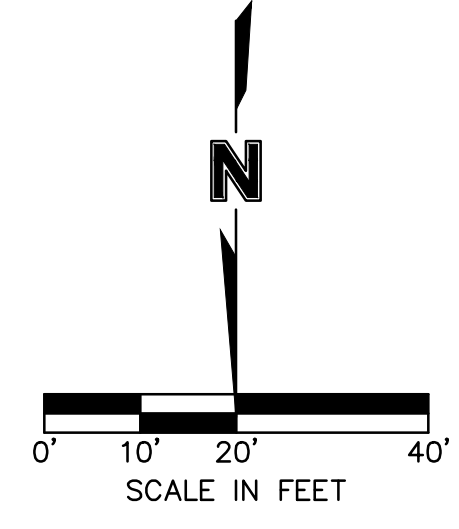
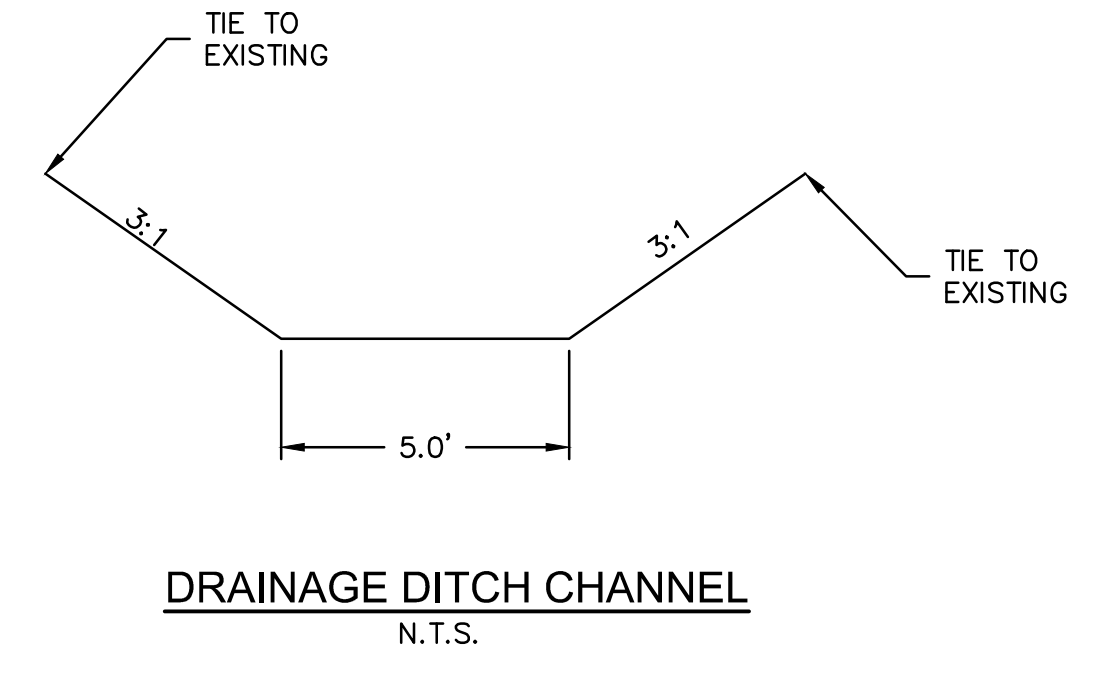
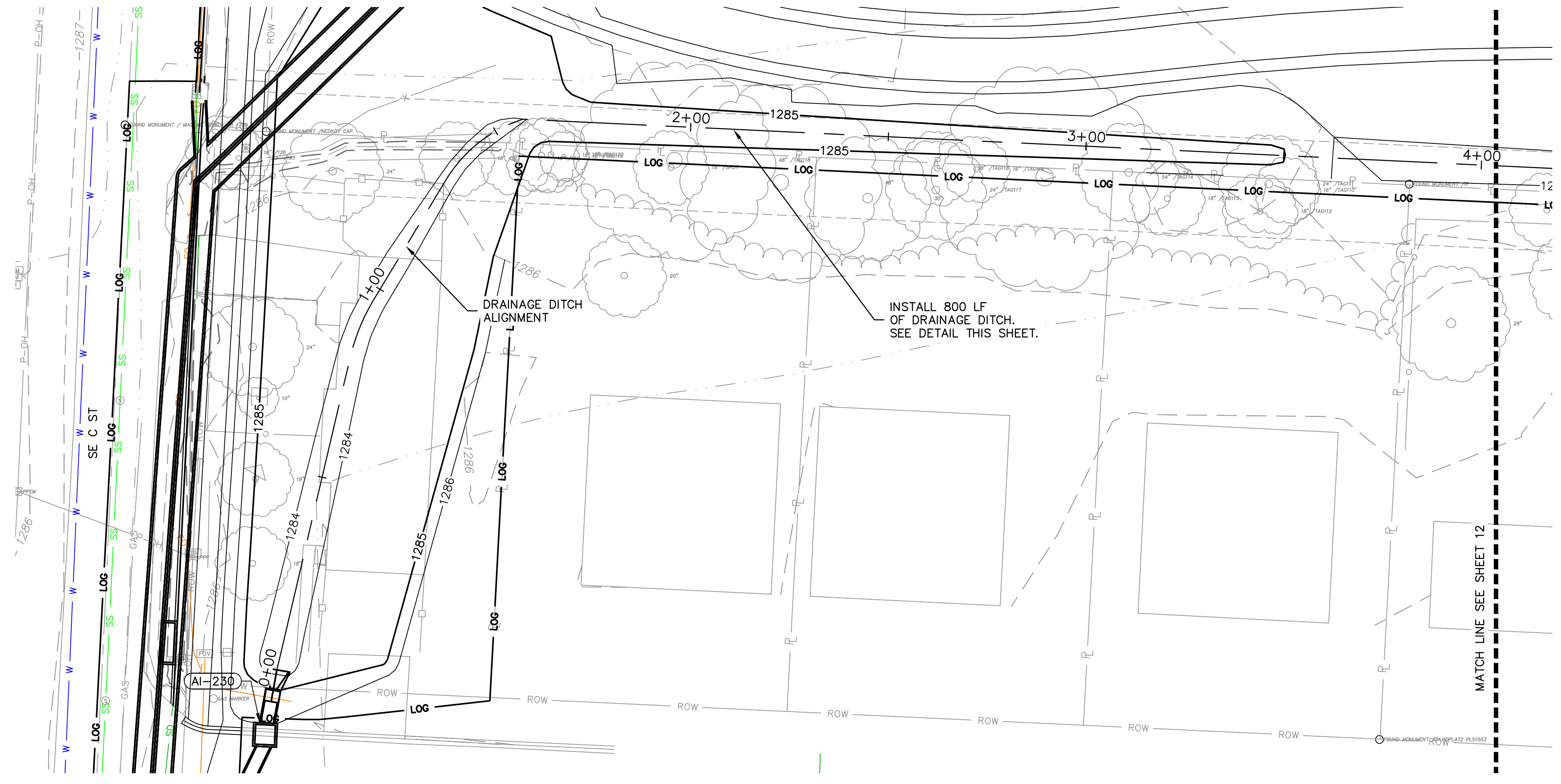
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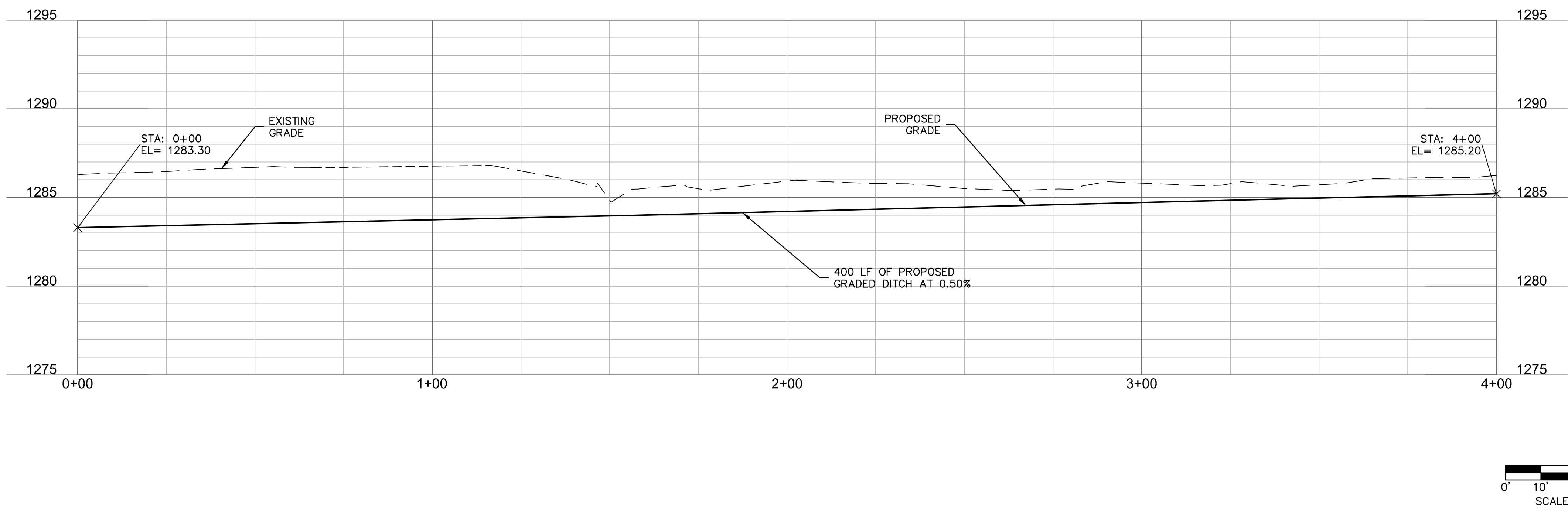
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USER: aboll
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DRAINAGE DITCH (0+00 - 4+00)



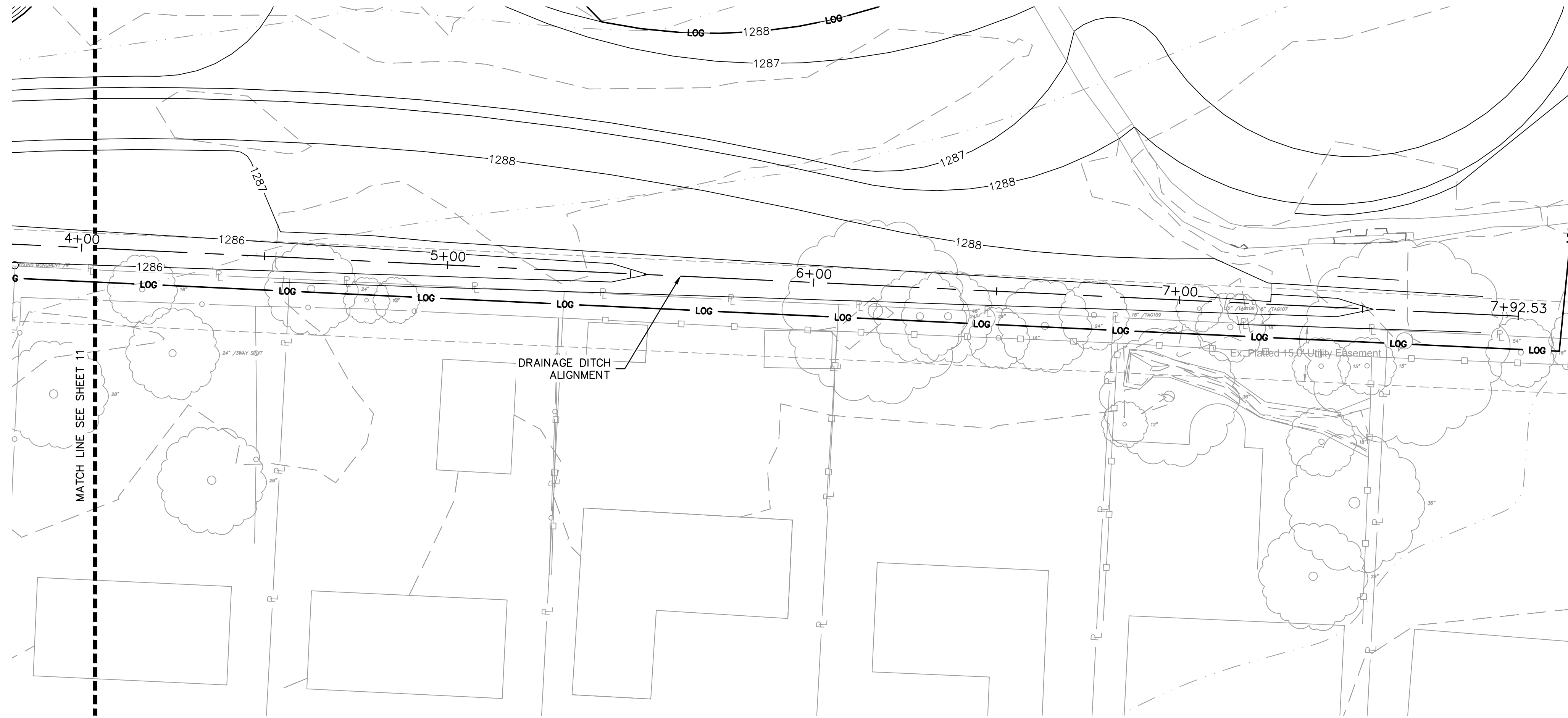
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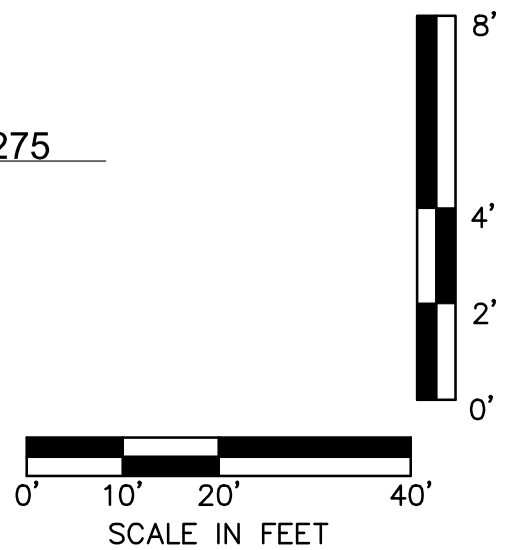
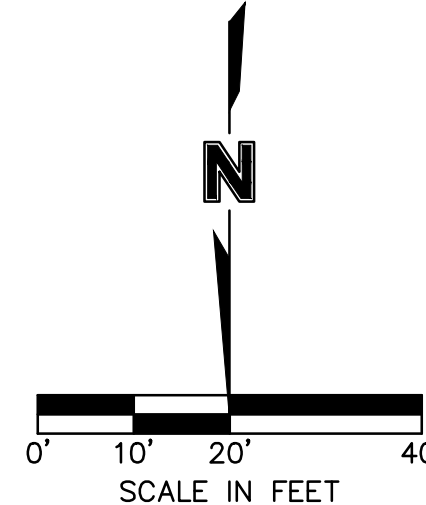
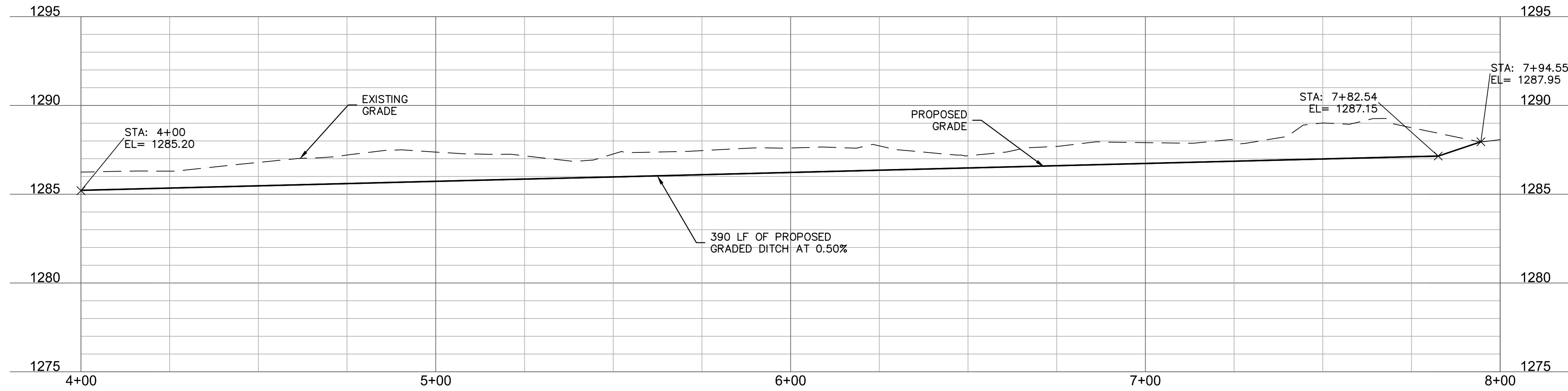
DRAINAGE DITCH ALIGNMENT (STA 0+00 - 4+00)
SE 10TH STREET AND SE C STREET
PRELIMINARY DESIGN
BENTONVILLE, AR
2022

drawn by: RPM
designed by: ADB
checked by: BPS
project no.: E21-04210
drawing no.: W_DRN01_E2104210
date: 09.01.2022

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DRAINAGE DITCH (4+00 - 8+00)



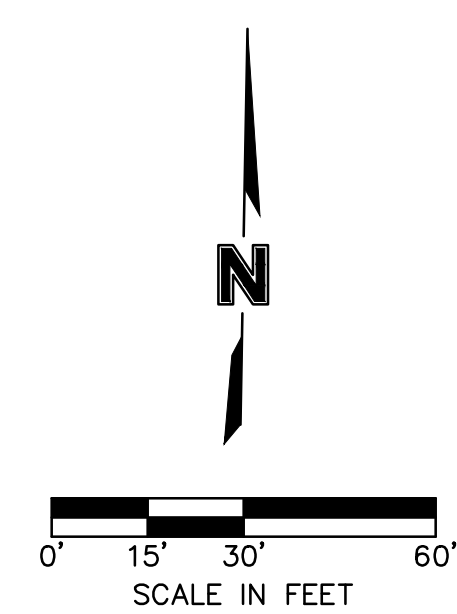
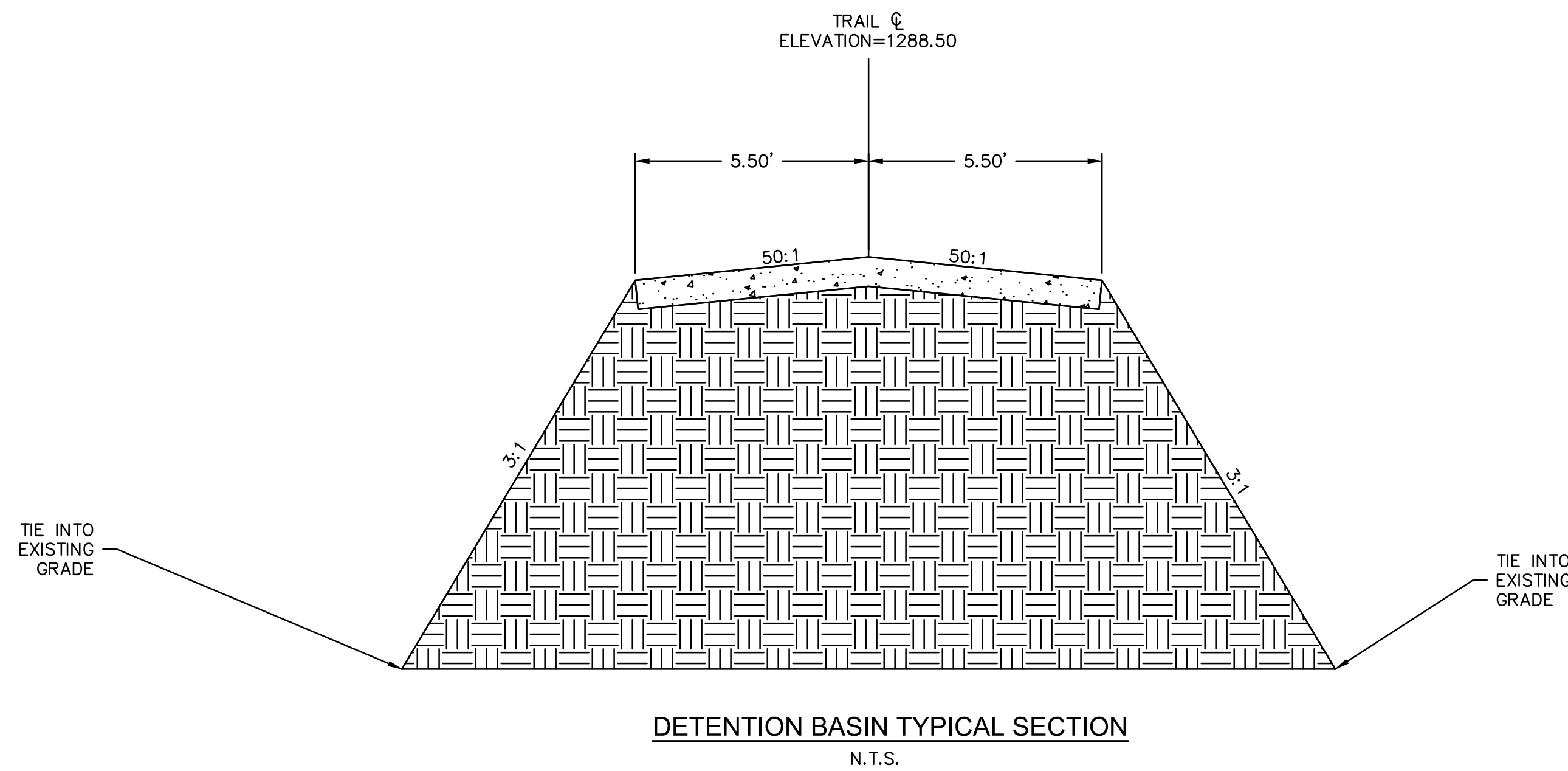
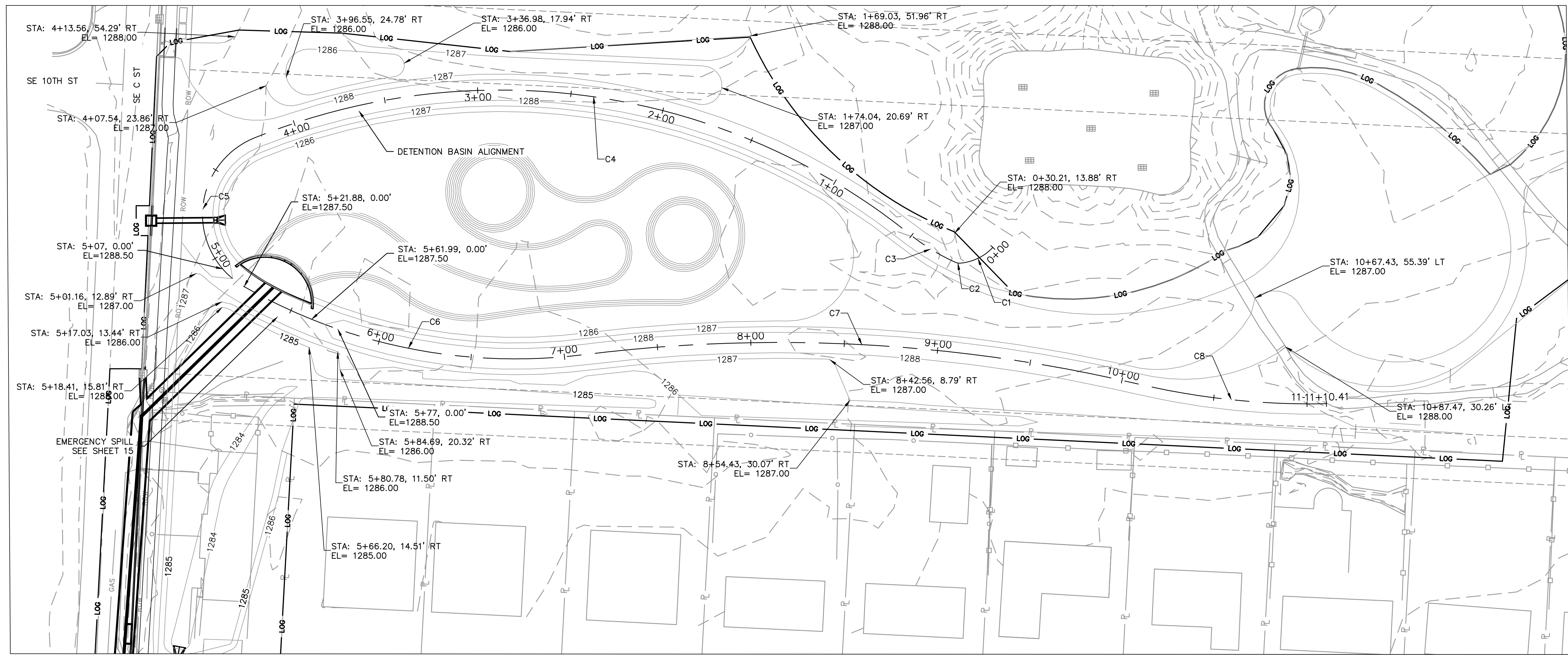
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REV. NO.	DATE	REVISIONS DESCRIPTION

DRAINAGE DITCH ALIGNMENT (STA 4+00 - 8+00)
 SE 10TH STREET AND SE C STREET
 PRELIMINARY DESIGN
 BENTONVILLE, AR
 2022

drawn by: RPM
 designed by: ADB
 checked by: BPS
 project no.: E21-04210
 drawing no.: W_DRN01_E2104210
 date: 09.01.2022

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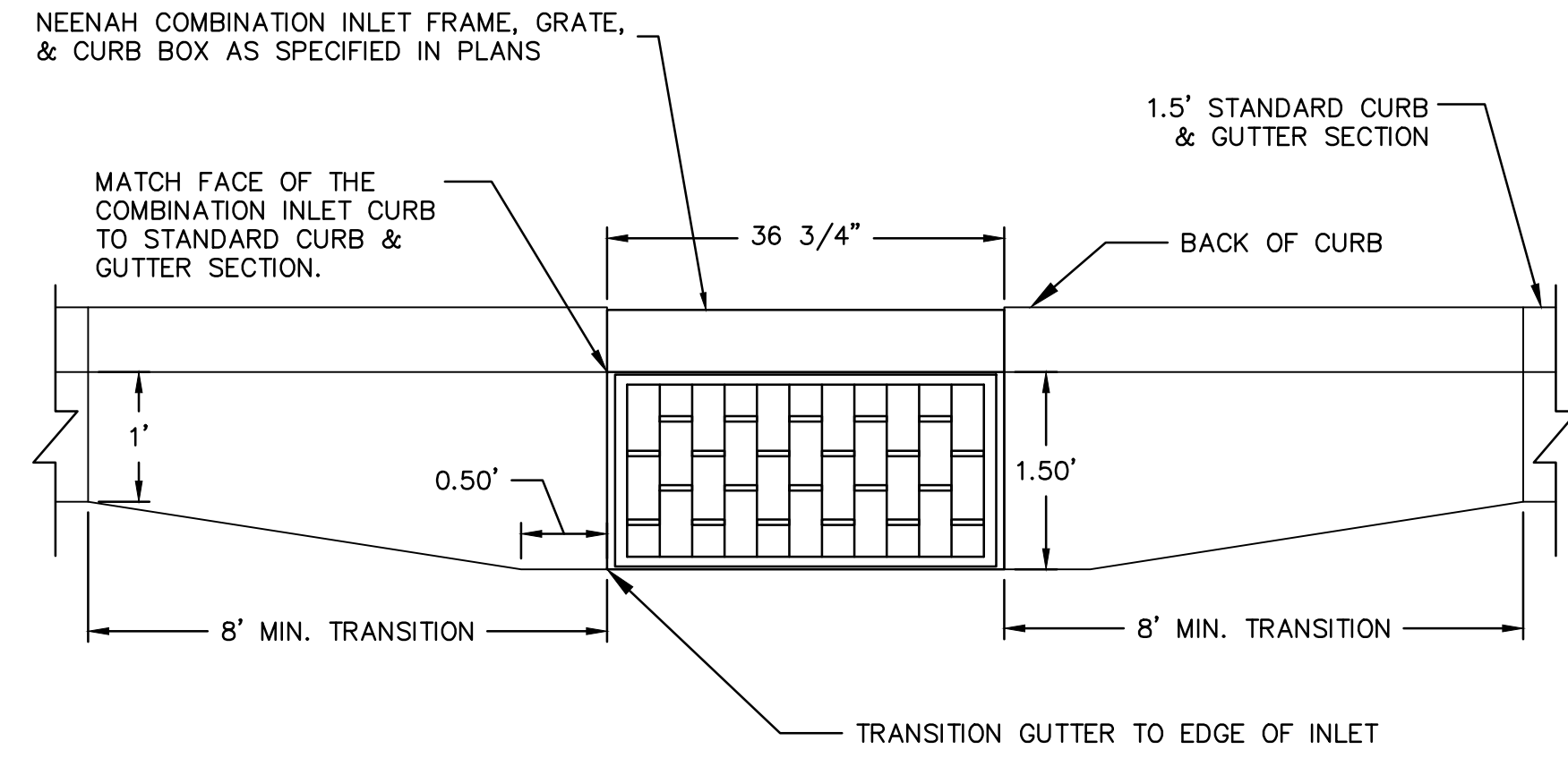
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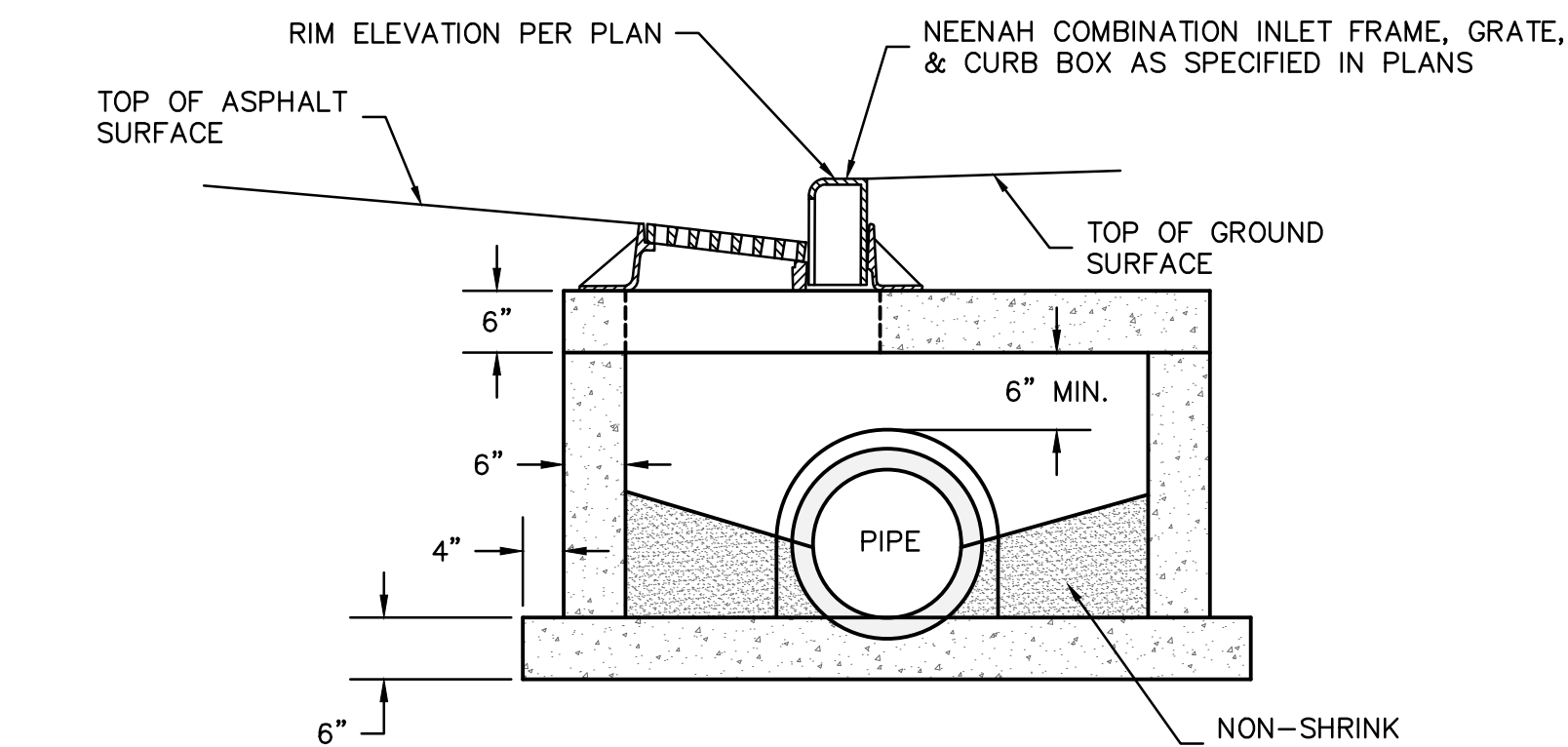
DETENTION BASIN GRADING PLAN
 SE 10TH STREET AND SE C STREET
 PRELIMINARY DESIGN
 BENTONVILLE, AR
 2022

drawn by: RPM
 designed by: ADB
 checked by: BPS
 project no.: E21-04210
 drawing no.: W_GRD01_E2104210
 date: 09.01.2022

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COMBINATION INLET GUTTER TRANSITION DETAIL
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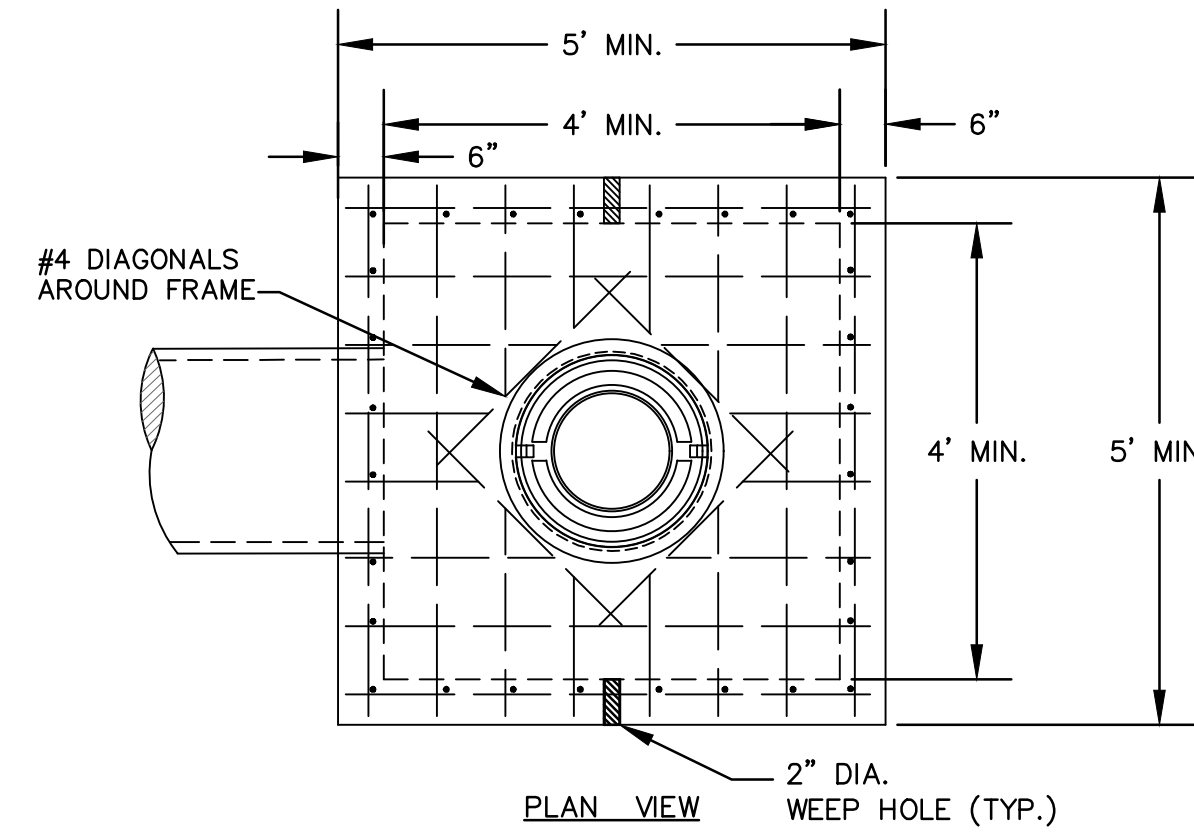
COMBINATION INLET DETAIL
N.T.S.

AREA INLET NOTES

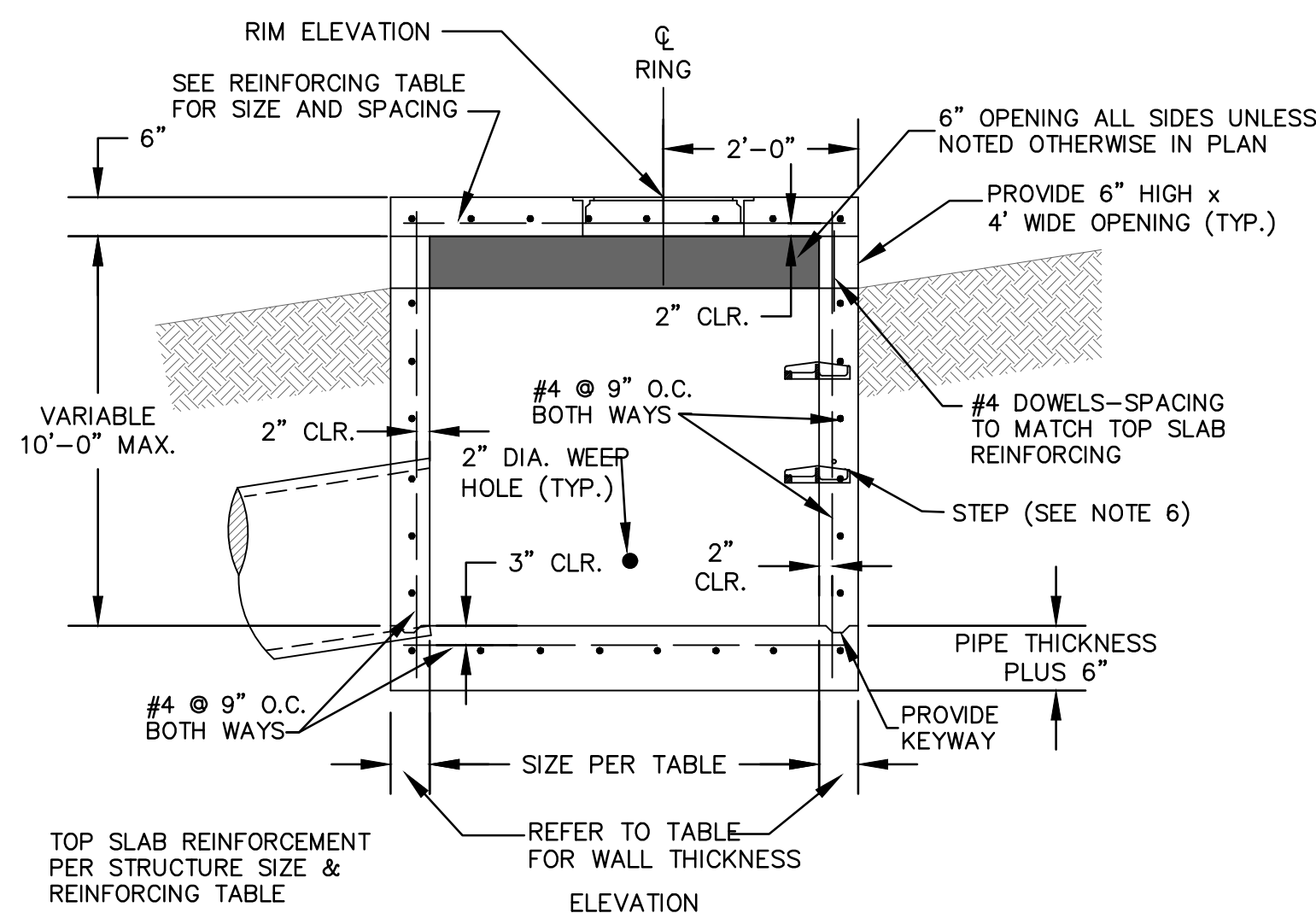
1. ALL EXPOSED CORNERS TO HAVE 3/4" CHAMFER.
2. ALL REINFORCEMENT BARS SHALL BE GRADE 60 AND SHALL HAVE A MINIMUM 2" COVER UNLESS OTHERWISE NOTED.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI -TOP 18" SHALL BE CAST-IN-PLACE.
4. INVERTS SHALL BE POURED MONOLITHICALLY WITH FOOTING.
5. PIPES MAY ENTER BOX FROM ANY ANGLE OF ELEVATION AS DIRECTED BY THE ENGINEER. REINFORCING BARS SHALL BE CUT TO CLEAR PIPE BY 2".
6. STEPS ARE REQUIRED IN STORM DRAIN MANHOLES THAT ARE AT 4 FT OF DEPTH AND GREATER (FROM INVERT TO RIM). CENTERLINE OF MANHOLE LID SHALL BE 2 FT FROM THE WALL WHERE STEPS ARE LOCATED. STEPS (6" x 12") SHALL BE COPOLYMER POLYPROPYLENE PLASTIC WITH STEEL CORE AT 16" APART.
7. LIMIT DEFLECTION TO 60 DEGREES. IF GREATER, USE NEXT LARGER MANHOLE DIAMETER/SIZE.

INSIDE DIMENSION	DIAMETER OF OUTLET PIPE	MIN. WALL THICKNESS	TOP CONCRETE SLAB REINFORCING	MIN. WALL THICKNESS
4'	15" - 18"	6"	# 4'S @ 8" O.C. E.W.	6"
5'	24" - 42"	8"	# 4'S @ 7" O.C. E.W.	8"
6'	48" - 54"	8"	# 5'S @ 9" O.C. E.W.	8"

* WHEN UNDER TRAFFIC, USE # 5'S @ 6" O.C. E.W.



AREA INLET DETAIL
N.T.S.

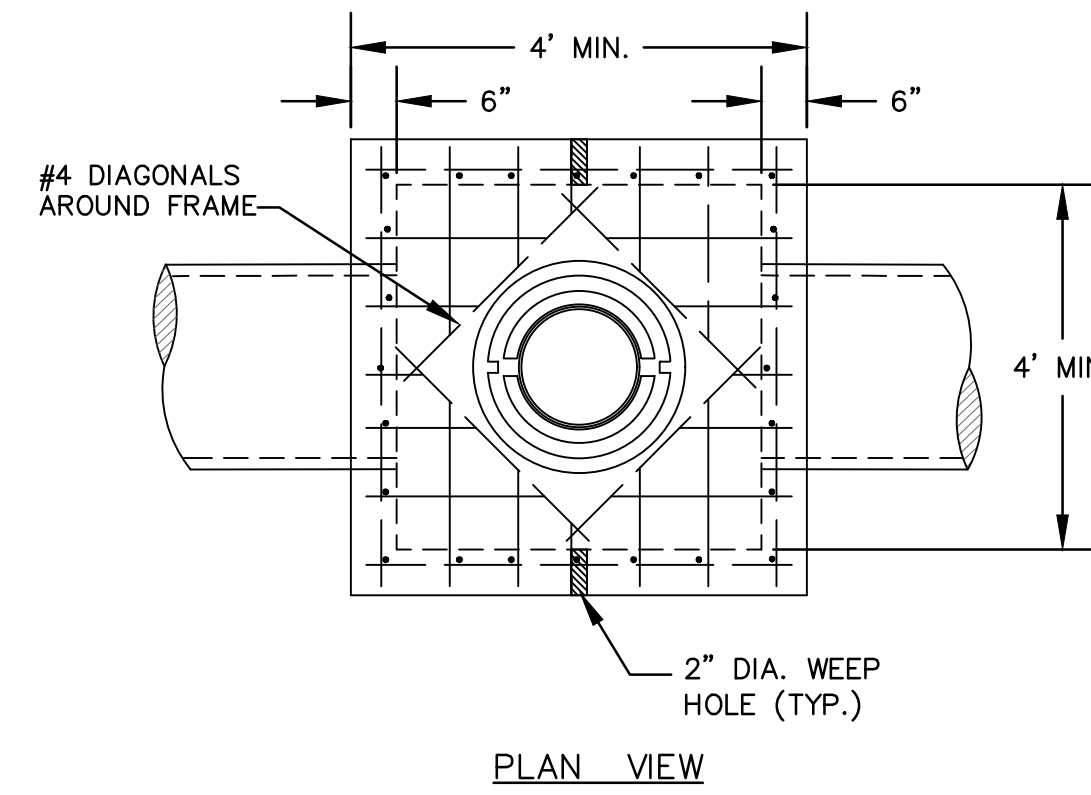


JUNCTION BOX NOTES

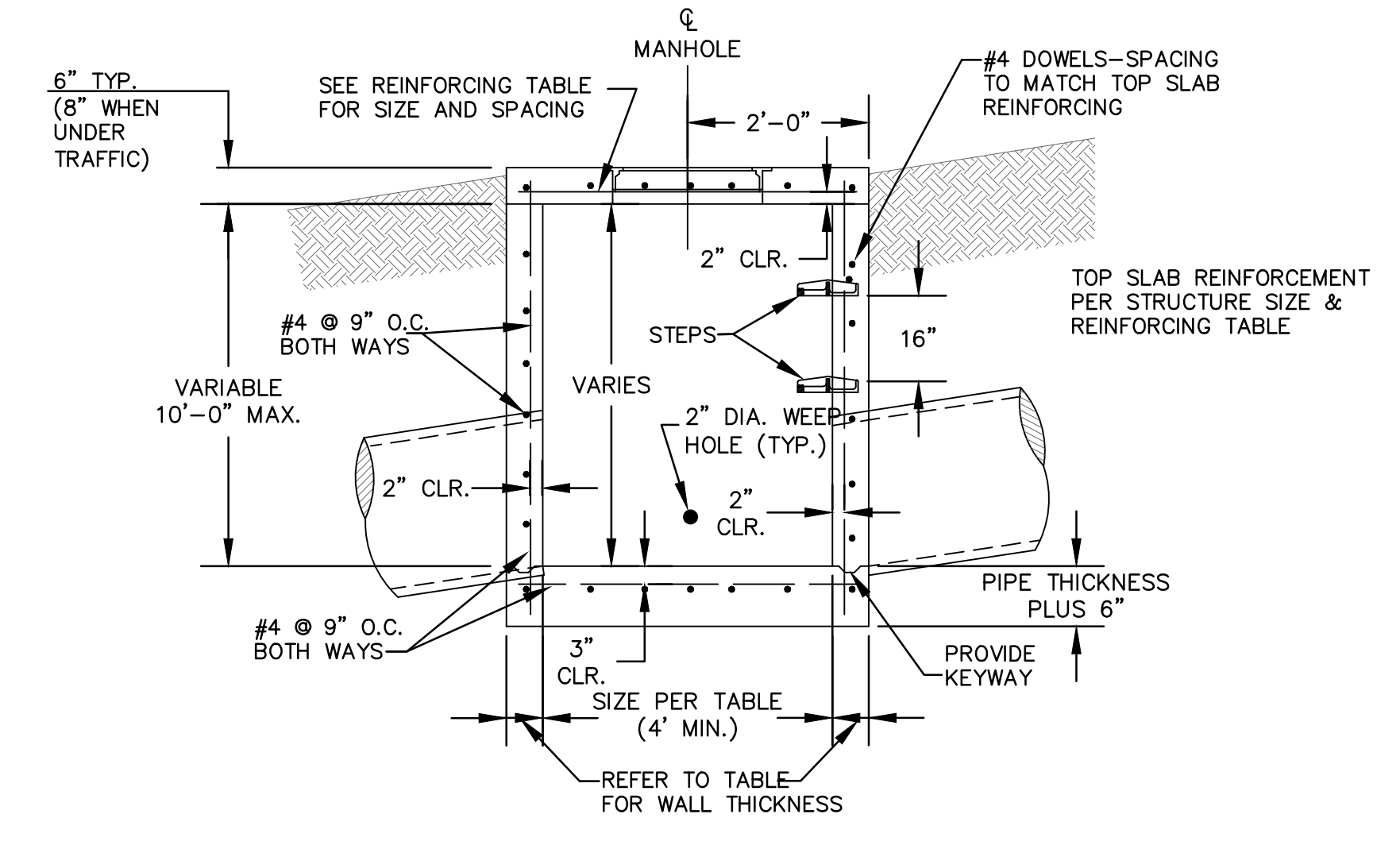
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4. INVERTS SHALL BE POURED MONOLITHICALLY WITH FOOTING.
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5'	24" - 42"	8"	# 4'S @ 7" O.C. E.W.	8"
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* WHEN UNDER TRAFFIC, USE # 5'S @ 6" O.C. E.W.



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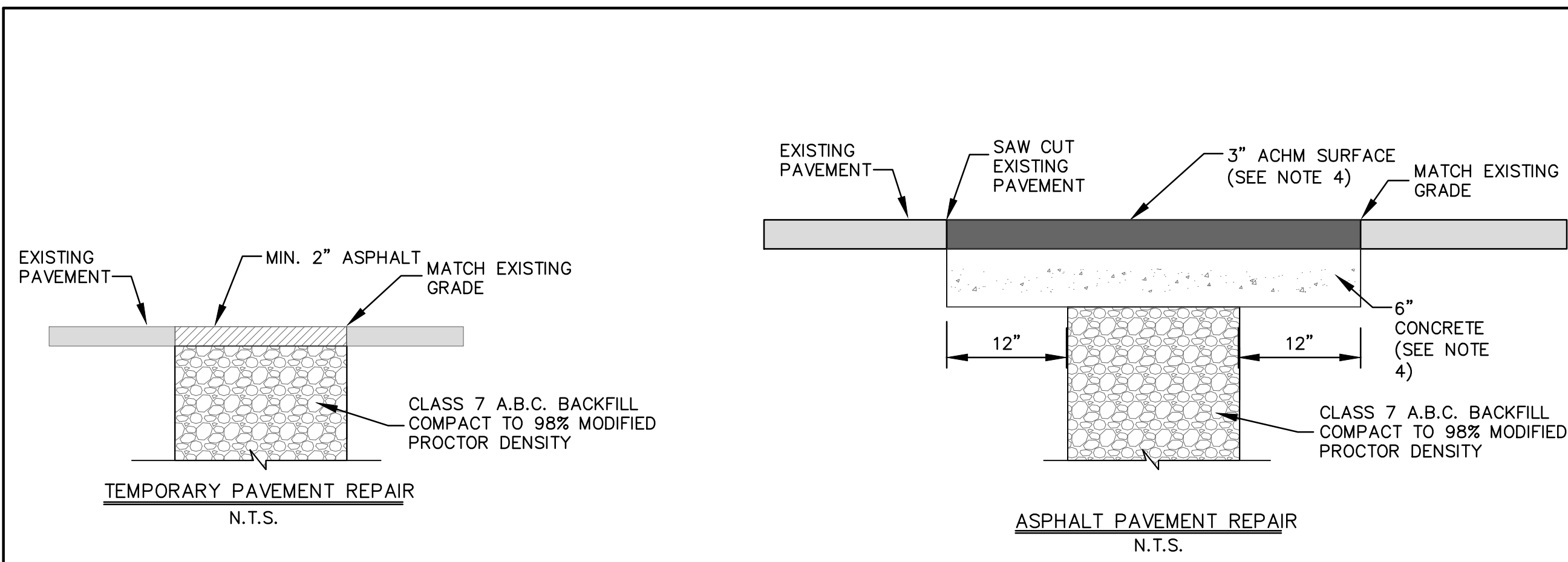
2022

DETAIL SHEET
SE 10TH STREET AND SE C STREET
PRELIMINARY DESIGN

BENTONVILLE, AR

drawn by: RPM
 designed by: ADB
 checked by: BPS
 project no.: E21-04210
 drawing no.: W_DTL01_E2104210
 date: 09.01.2022

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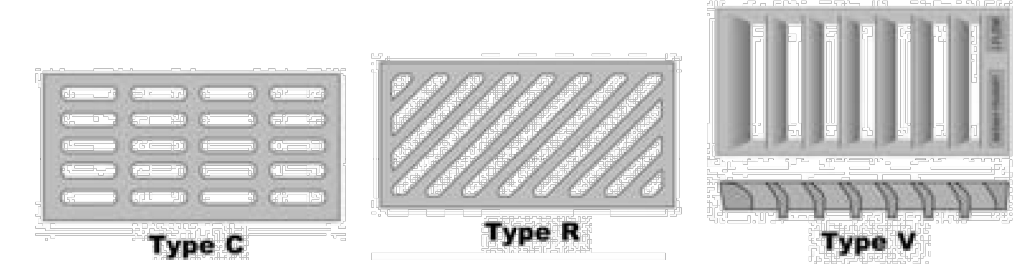


- NOTES:**
1. CONCRETE SHALL HAVE A MINIMUM OF 6.5 BAGS OF CEMENT PER CU. YD., 4-7% AE AND DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI @ 28 DAYS.
 2. PERMANENT REPAIRS TO BE USED ONLY WHERE ADJACENT PAVEMENT IS TO REMAIN. USE TEMPORARY PATCH IN AREAS WHERE ADJACENT PAVEMENT IS TO BE REMOVED OR RECONSTRUCTED.
 3. ASPHALT FOR TEMPORARY REPAIRS MAY BE HOT MIX OR COLD MIX.
 4. COLORED CONCRETE, WHEN ASPHALT IS NOT AVAILABLE, SHALL BE AN INTEGRAL COLOR MIX. SOLOMON DRY PIGMENT - 908 CARBON BLACK "ASPHALT" (1 - 25 LB. BAG PER 3 YARDS), OR APPROVED EQUAL. TOTAL THICKNESS OF PAVEMENT SHALL BE 6 INCHES.
 5. MATCH PAVEMENT TO CURB AND GUTTER WITHOUT OVERLAYING CURB AND GUTTER.

R-3295-3 Triple Unit Frame, Grate, Curb Box

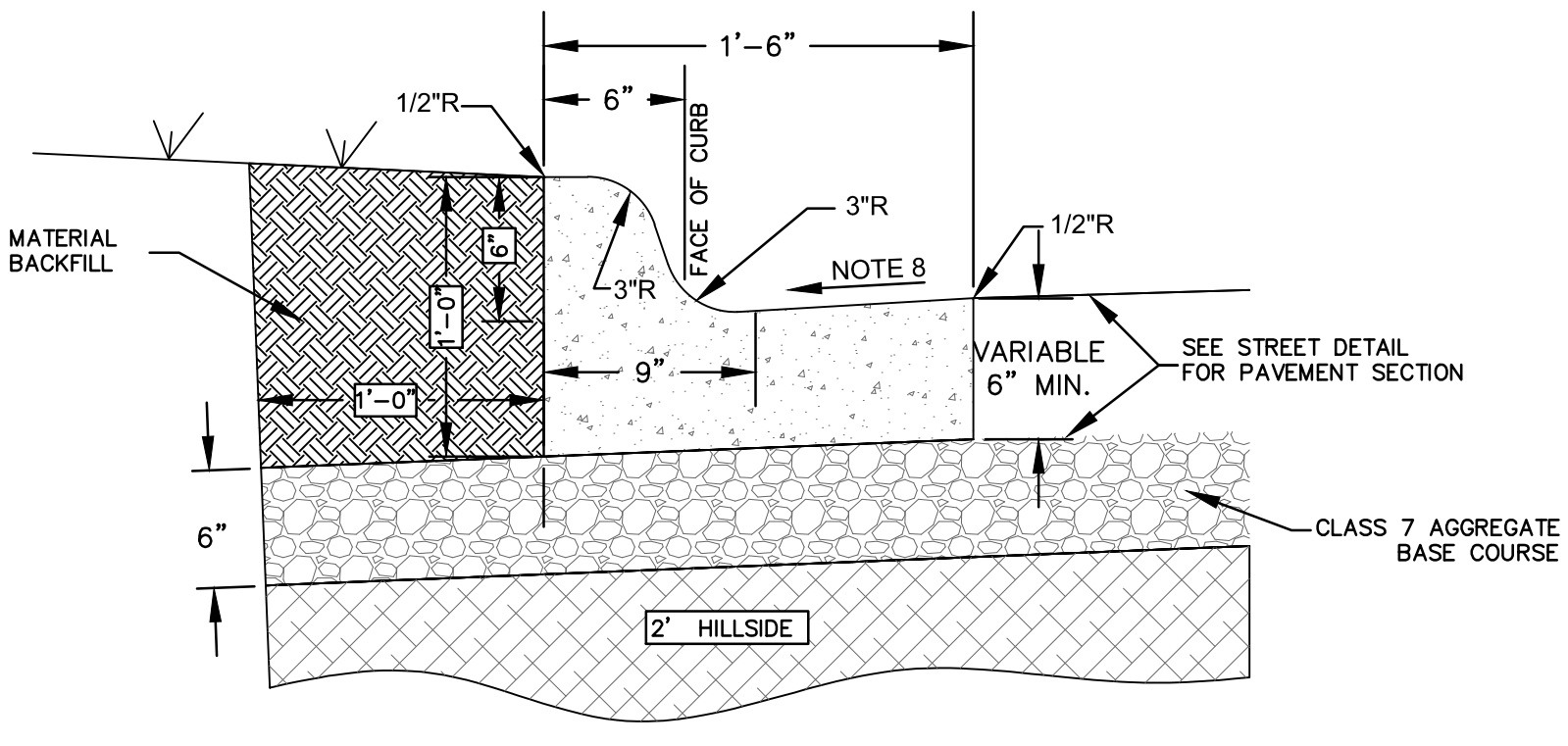
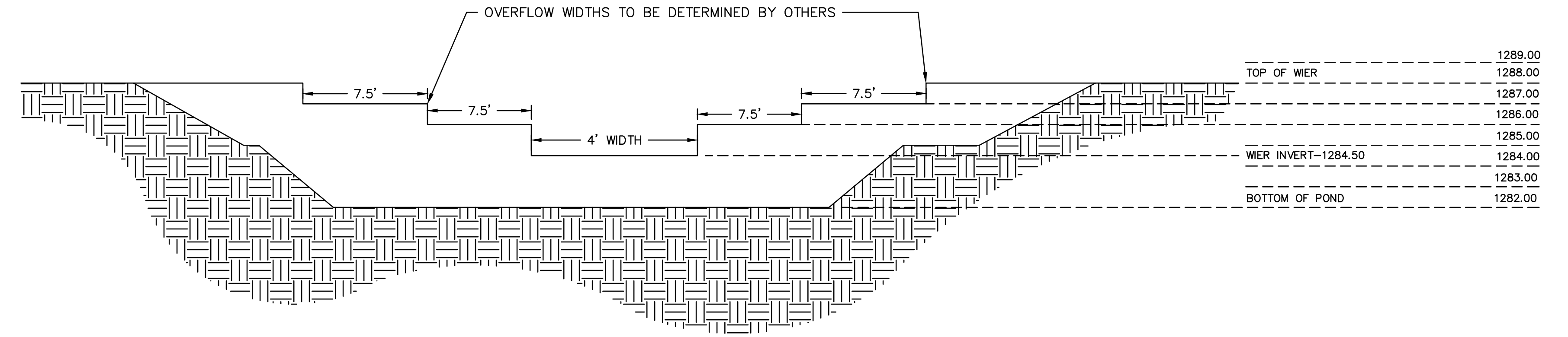
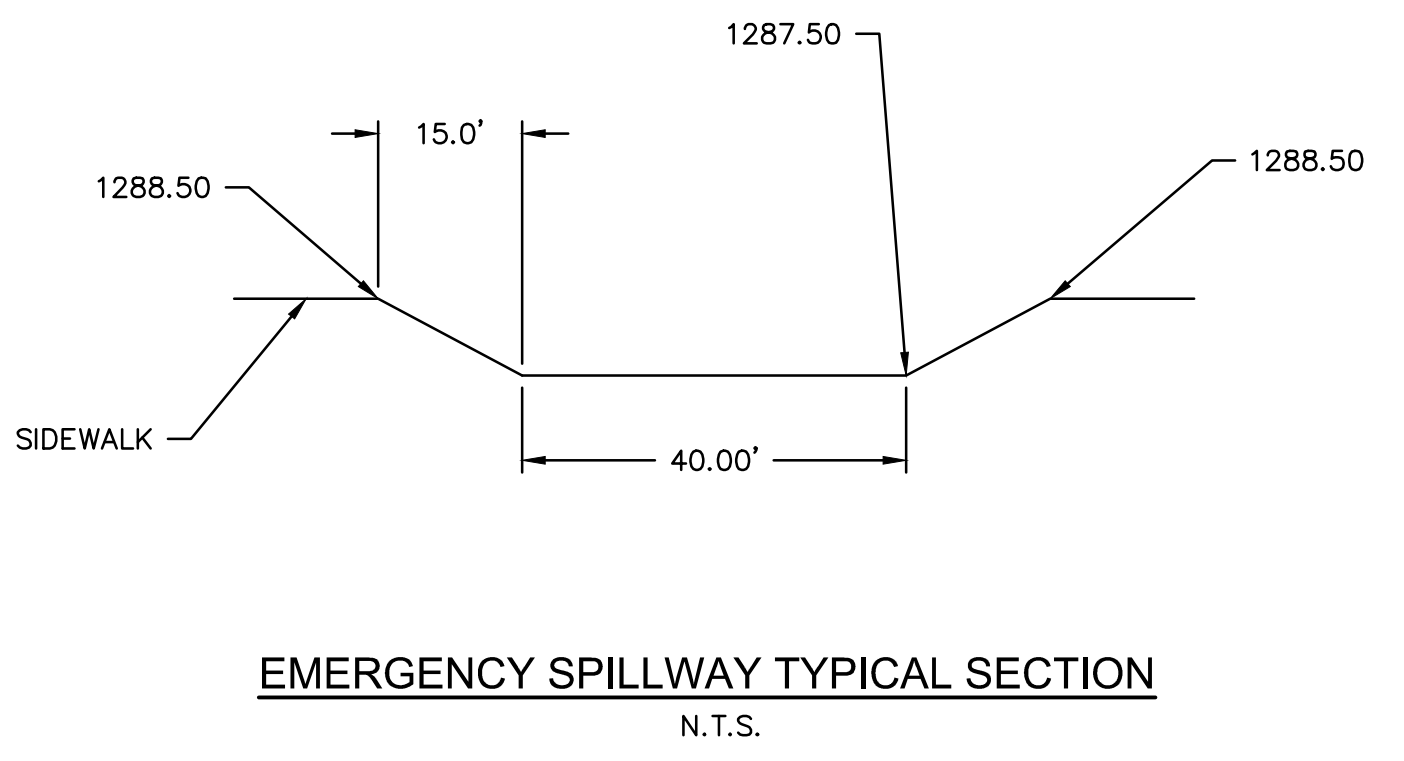
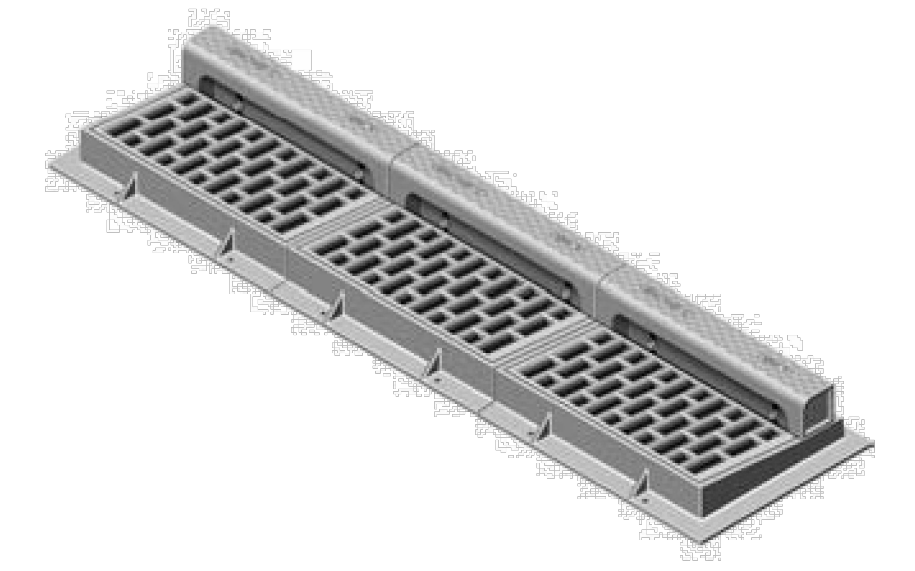
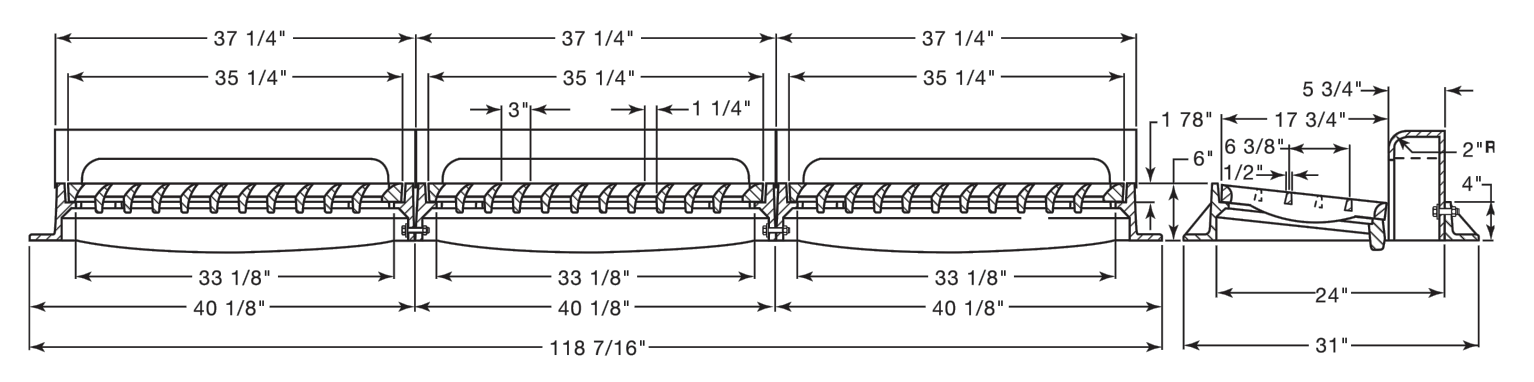
Heavy Duty

Standard Grate (shown): Type L
 Also available with grate Type C, Type R-diagonal or Type V.

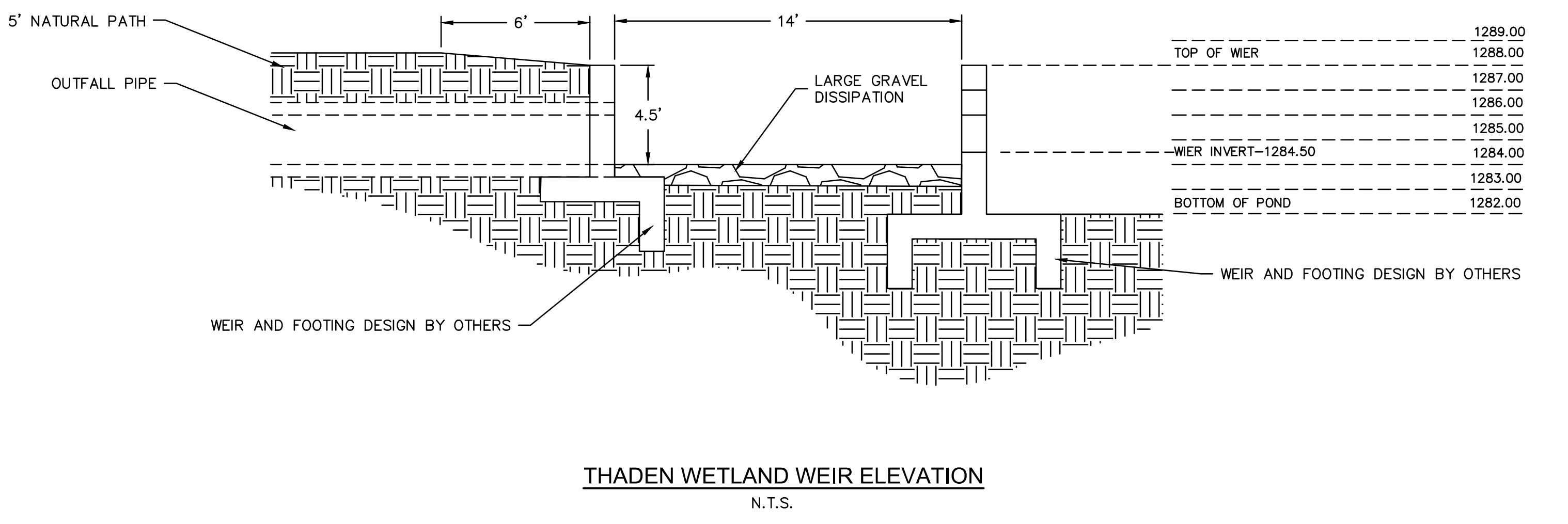


Additional center sections can be added for greater overall length – please specify.

CATALOG NUMBER	GRATE TYPE	SQ. FT. OPEN	WEIR PERIMETER LINEAL FEET
R-3295-3	L	6.3	11.8
R-3295-3	V	7.2	11.8
R-3295-3	C	6.3	11.8
R-3295-3	R	5.7	11.8



- CURB & GUTTER NOTES:**
1. CONTRACTION JOINTS SHALL BE 1/8" TO 3/8" X 1 1/2" AT 15 FT. INTERVALS. ALL CONTRACTION JOINTS AND COLD JOINTS SHALL BE FILLED WITH JOINT SEALANT TO FINISHED GRADE.
 2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
 3. EXPANSION MATERIAL SHALL BE REQUIRED AT ALL STATIONARY STRUCTURES AND ENDS OF CURB RETURNS. THE EXPANSION MATERIAL SHALL BE 1/2" ASPHALT IMPREGATED FIBERBOARD CONFORMING TO AASHTO M213. EXPANSION JOINT MATERIAL SHALL BE LEFT 1/2" LOWER THAN GRADE OR TRIMMED 1/2" LOWER THAN GRADE.
 4. EXPANSION JOINTS SHALL BE FILLED WITH JOINT SEALANT SHAPED TO THE CROSS SECTION OF THE CURB AND CONSTRUCTED AT RIGHT ANGLES WITH THE CURB LINE.
 5. FINISH SHALL BE MEDIUM BROOM FINISH.
 6. CONCRETE CURING COMPOUND SHALL BE SEALTIGHT 1600-WHITE MANUFACTURED BY W.R. MEADOWS, OR AN APPROVED EQUAL.
 7. CONCRETE JOINT SEALANT SHALL BE SONNEBORN "SONOLASTIC SLI" OR AN APPROVED EQUAL. CLOSED CELL BACKER ROD SHALL BE USED IN DEEP JOINTS, AS NEEDED, ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
 8. GUTTER SHALL MATCH THE CROSS SLOPE OF THE ROAD WITHIN ± 0.5%. GUTTER DRAINING THE OPPOSITE DIRECTION AS THE ROAD WILL NOT BE ACCEPTED.



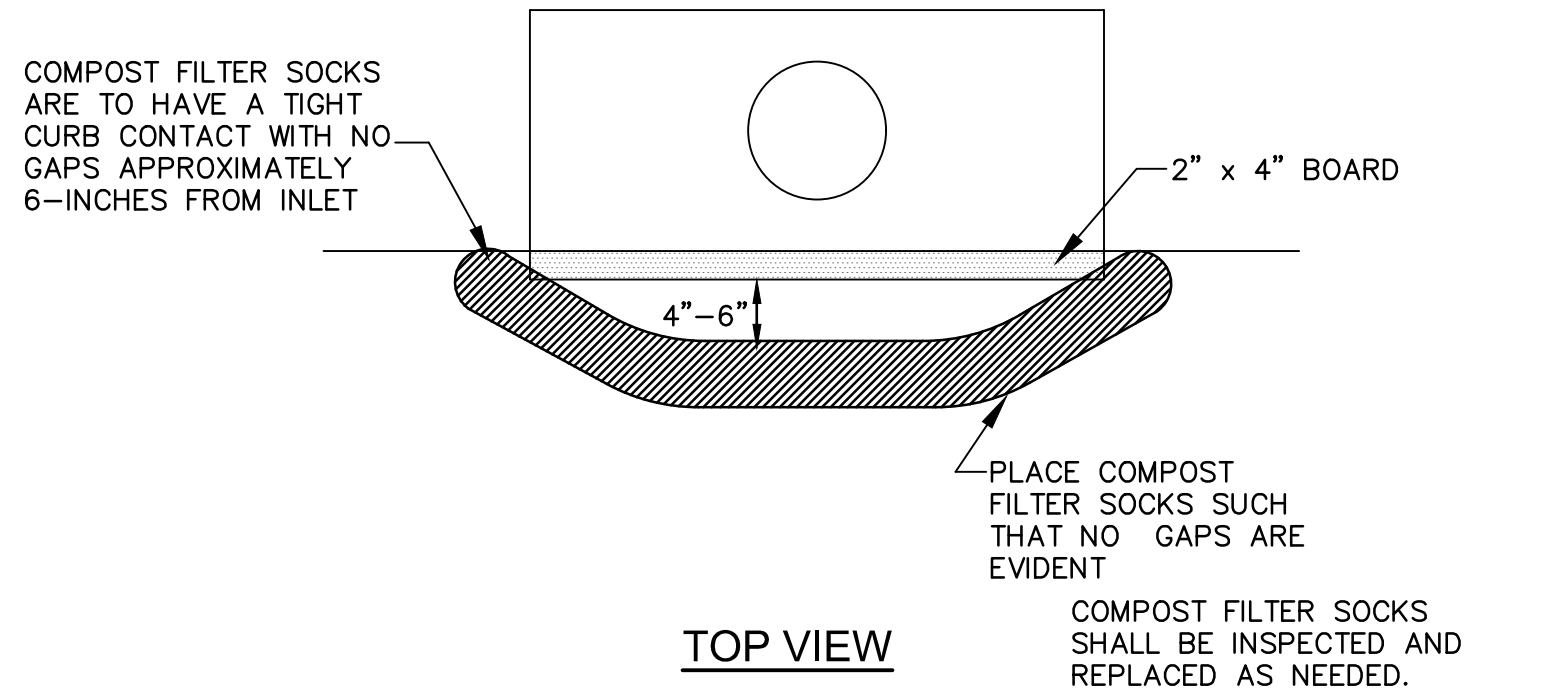
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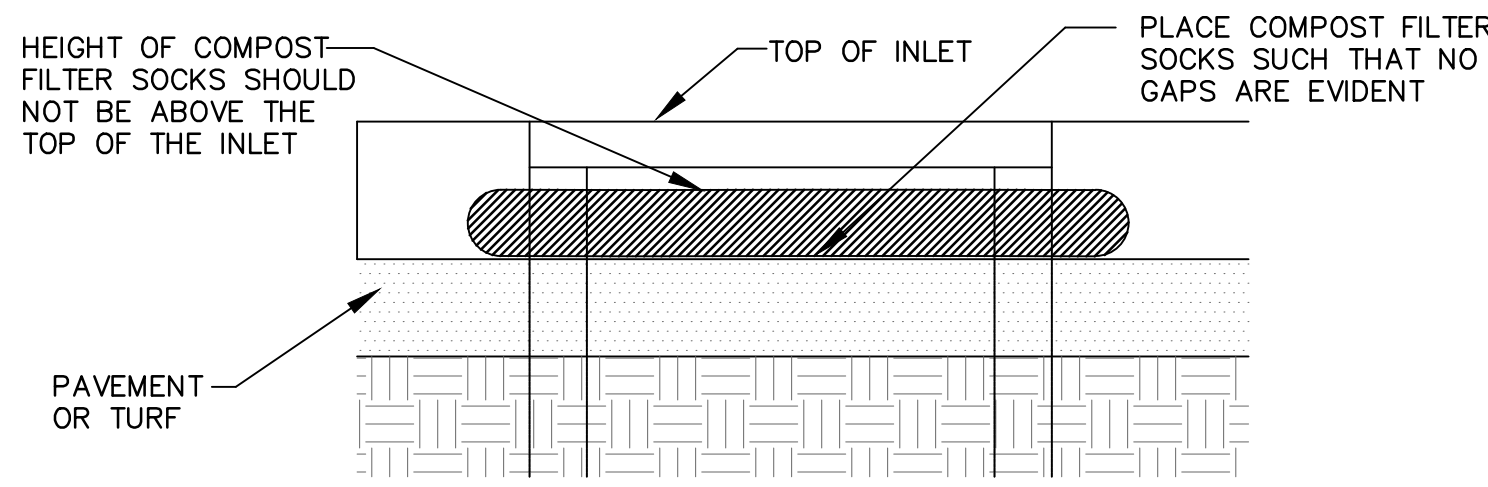
REV. NO.	DATE	REVISIONS DESCRIPTION

DETAIL SHEET
 SE 10TH STREET AND SE C STREET
 PRELIMINARY DESIGN
 BENTONVILLE, AR
 2022
 REVISIONS

drawn by: RPM
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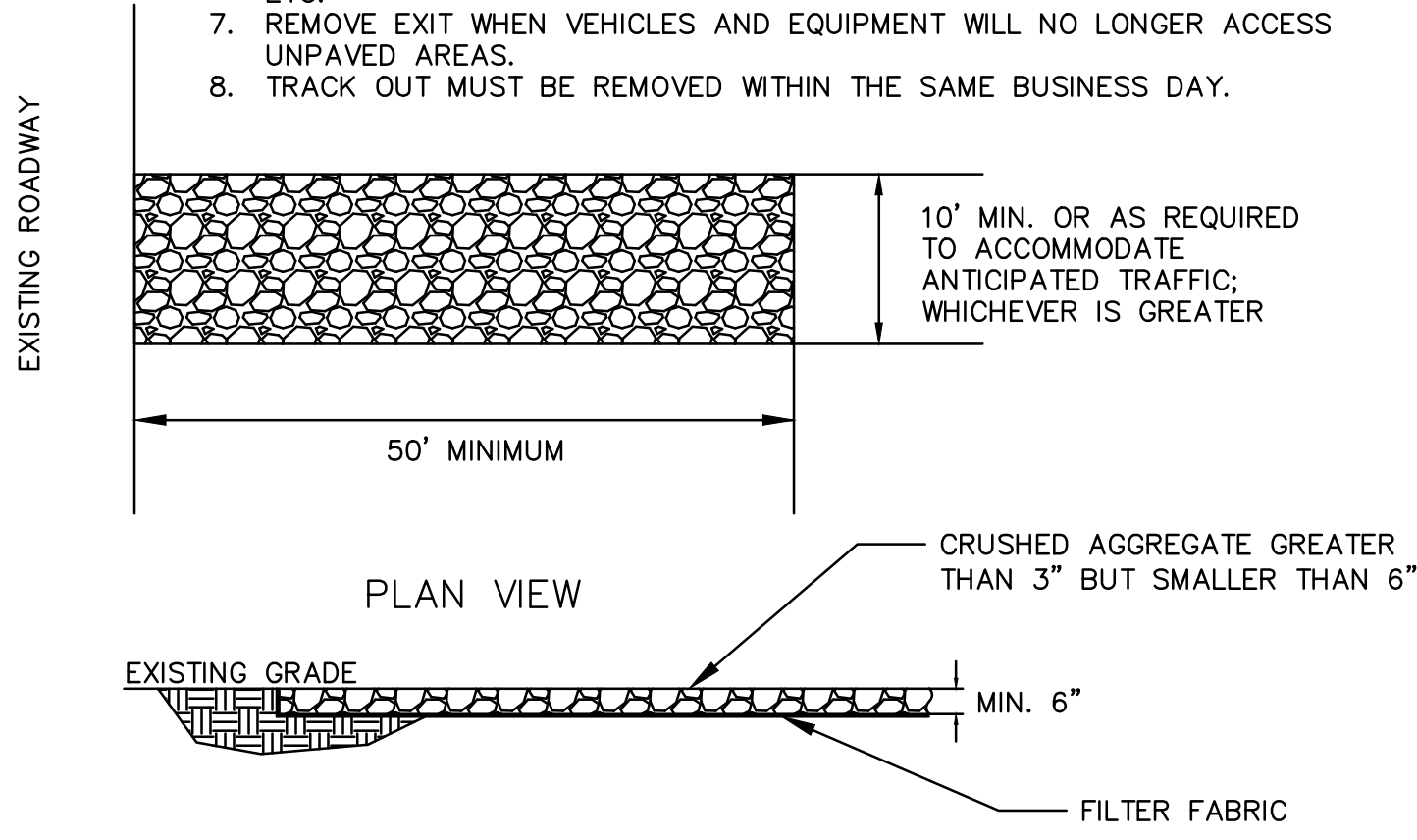
TOP VIEW



FRONT VIEW

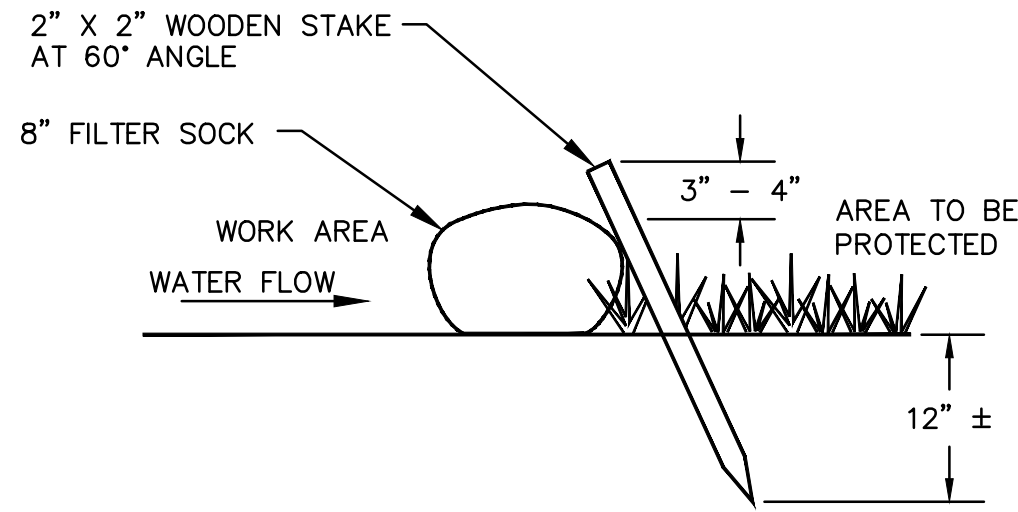
COMPOST FILTER SOCKS AT CURB INLET DETAIL
NOT TO SCALE

- NOTES:
1. RUMBLE STRIPS ARE RECOMMENDED FOR LARGER SITES.
 2. AVOID PLACING EXITS IN AN OUTFALL AREA OR OTHER LOW AREAS WHERE WATER PONDS OR FLOWS.
 3. A CULVERT SHALL BE INSTALLED IF EXIT CROSSES A DITCH.
 4. ROCK APRON INSTALLATION SHALL BE WIDE ENOUGH TO ACCOMMODATE TURNING VEHICLES.
 5. ADD NEW ROCK OR RAKE EXISTING ROCK WHEN VOIDS FILL WITH SEDIMENT.
 6. ANY MUD, ROCK OR DEBRIS TRACKED ONTO PAVED SURFACES AND ACCUMULATED IN CURBS SHALL BE REMOVED USING A SWEEPER, SHOVEL, ETC.
 7. REMOVE EXIT WHEN VEHICLES AND EQUIPMENT WILL NO LONGER ACCESS UNPAVED AREAS.
 8. TRACK OUT MUST BE REMOVED WITHIN THE SAME BUSINESS DAY.

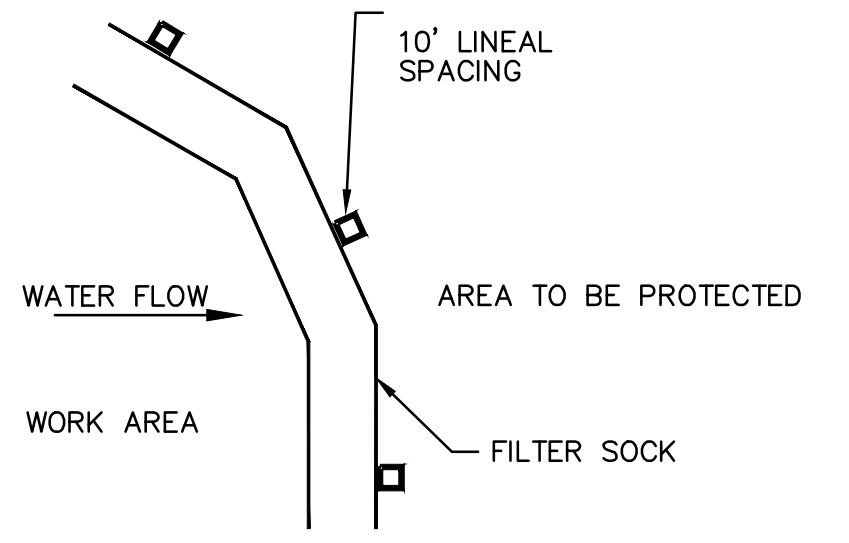


SECTION VIEW

CONSTRUCTION EXIT



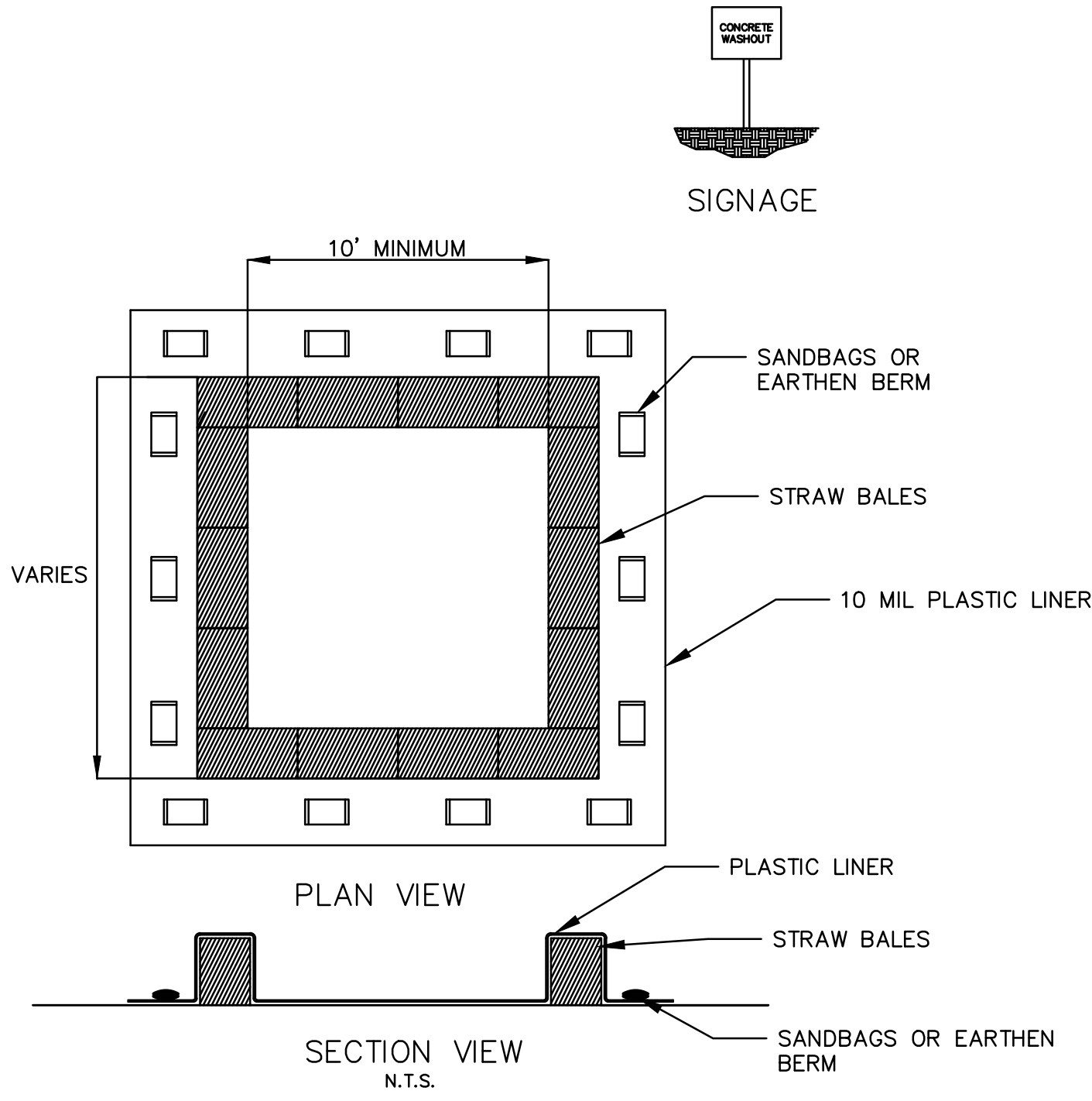
SECTION VIEW



PLAN VIEW

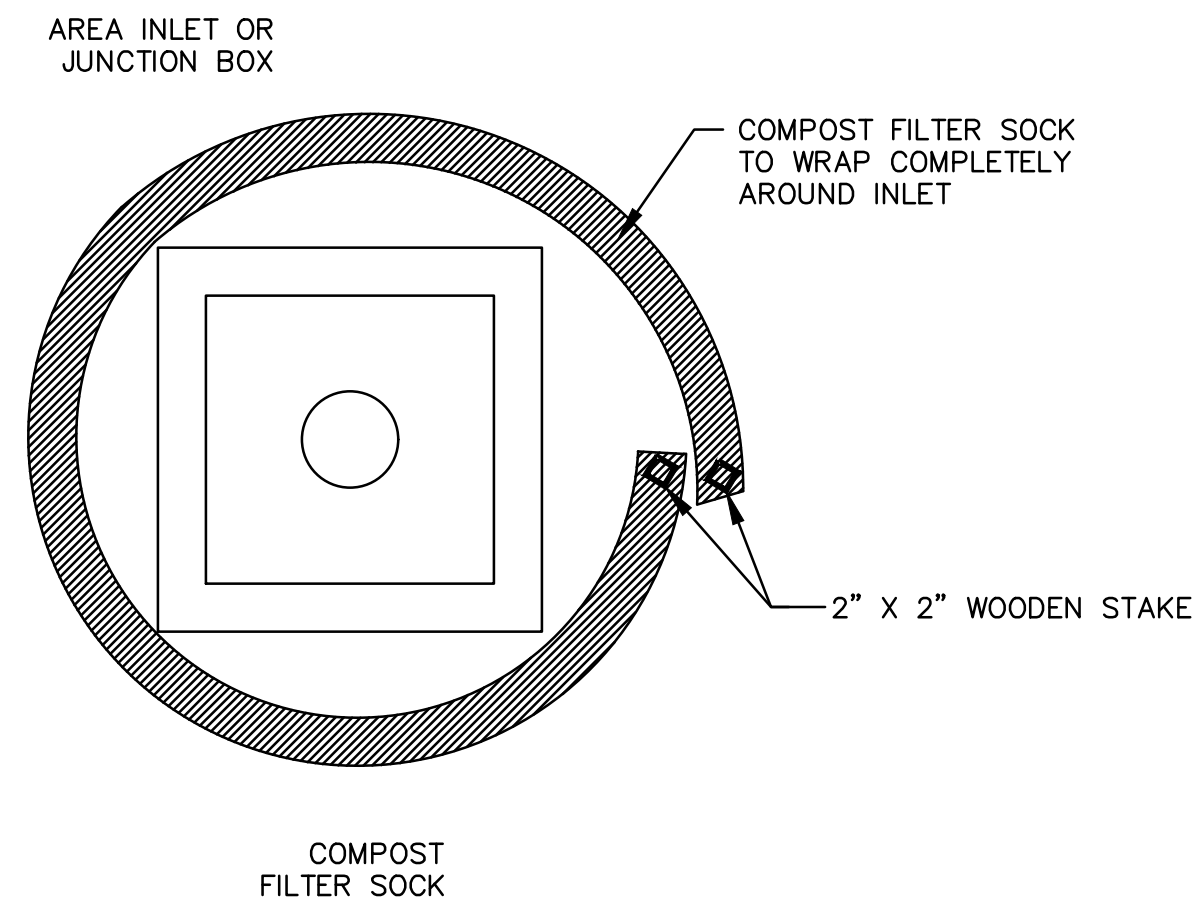
- NOTES:
1. COMPOST FILTER SOCK SHALL MEET THE REQUIREMENTS OF MODOT SECTION 806.8.6.4.8. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL BEFORE INSTALLING SOCK.
 2. FILTER SOCK DEPICTED IS FOR MINIMUM SLOPES. GREATER SLOPES MAY REQUIRE LARGER SOCKS PER ENGINEER.
 3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

COMPOST FILTER SOCK DETAILS
NOT TO SCALE



CONCRETE WASHOUT

- NOTES:
1. WASHOUT CONTAINMENT SHALL BE INSTALLED FOR DURATION OF CONCRETE WORK AND RETAIN CONCRETE AND OTHER WASHOUT LIQUIDS UNTIL EVAPORATION OR REMOVAL BY PUMP.
 2. CONTAINMENT SHALL BE SIZED FOR EXPECTED WASHOUT VOLUMES.
 3. AVOID PLACING NEAR STORM DRAINS, STREAMS, SINKHOLES, OUTFALLS OR OTHER LOW AREAS WHERE WATER PONDS OR FLOWS.
 4. OTHER APPROVED LEAK-PROOF CONTAINMENT IS ACCEPTABLE.
 5. TRAPS SHALL BE ROUTINELY MAINTAINED AT 75% CAPACITY AND REPLACED AS NECESSARY TO PERFORM.
 6. THE WASHOUT PIT SHALL BE COVERED BEFORE PREDICTED RAIN EVENTS TO PREVENT OVERFLOW.
 7. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30FT OF THE TEMPORARY CONCRETE WASHOUT FACILITY.



COMPOST FILTER SOCK AT AREA INLET DETAIL
NOT TO SCALE

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DETAIL SHEET	2022
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SHEET
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