ROCK RIVER WATER RECLAMATION DISTRICT

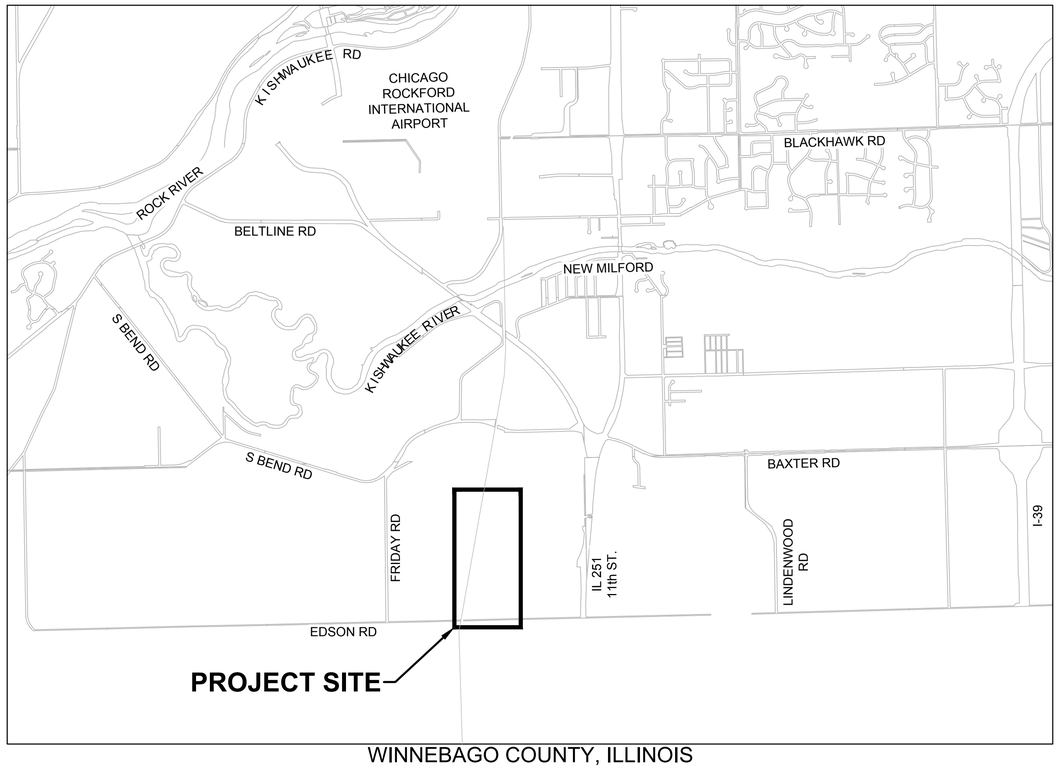
ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
CAPITAL IMPROVEMENT PROJECT #1965
2019

BOARD OF TRUSTEES

DONALD MASSIER	PRESIDENT
ELMER JONES	VICE-PRESIDENT
RICHARD POLLACK	CLERK/TREASURER
JOHN SWEENEY	TRUSTEE
BEN BERNSTEN	TRUSTEE

OFFICIALS

TIMOTHY S. HANSON	DISTRICT DIRECTOR
CHRISTOPHER T. BAER, PE	ENGINEERING MANAGER



WINNEBAGO COUNTY, ILLINOIS

Rock River Water Reclamation District

INDEX OF SHEETS

1 COVER
2 LEGEND, GENERAL NOTES, & SUMMARY OF QUANTITIES
3 ALIGNMENT, TIES, & BENCHMARKS - EASEMENTS & CONTROL
4 ALIGNMENT, TIES, & BENCHMARKS - SANITARY SEWER ALIGNMENT & STRUC
5 ALIGNMENT, TIES, & BENCHMARKS - ACCESS ROAD ALIGNMENT
6 CONSTRUCTION STAGING PLAN
7 TYPICAL SECTIONS & PROJECT DETAILS
8 TEMP EROSION CONTROL NOTES & DETAILS
9 TEMP EROSION CONTROL 99+50.00 - 104+00.00
10 TEMP EROSION CONTROL 108+50.00 - 113+00.00
11 TEMP EROSION CONTROL 117+50.00 - 122+00.00
12 TEMP EROSION CONTROL 126+50.00 - 135+50.00
13 TEMP EROSION CONTROL 135+50.00 - 143+00.00
14 PLAN & PROFILE STA. 100+00.00 TO STA. 104+00.00
15 PLAN & PROFILE STA. 104+00.00 TO STA. 108+50.00
16 PLAN & PROFILE STA. 108+50.00 TO STA. 113+00.00
17 PLAN & PROFILE STA. 113+00.00 TO STA. 117+50.00
18 PLAN & PROFILE STA. 117+50.00 TO STA. 122+00.00
19 PLAN & PROFILE STA. 122+00.00 TO STA. 126+50.00
20 PLAN & PROFILE STA. 126+50.00 TO STA. 131+00.00
21 PLAN & PROFILE STA. 131+00.00 TO STA. 135+50.00
22 PLAN & PROFILE STA. 135+50.00 TO STA. 139+50.00
23 PLAN & PROFILE STA. 139+50.00 TO STA. 143+00.00
24 ACCESS ROAD STA 10+00.00 - STA 10+97.59
25 ACCESS ROAD STA 20+00.00 - STA 25+00.00
26 ACCESS ROAD STA 25+00.00 - STA 29+00.00
27 ACCESS ROAD STA 29+00.00 - STA 34+00.00
28 ACCESS ROAD STA 34+00.00 - STA 39+00.00
29 ACCESS ROAD STA 39+00.00 - STA 44+00.00
30 ACCESS ROAD STA 44+00.00 - STA 49+00.00
31 ACCESS ROAD STA 49+00.00 - STA 54+00.00
32 ACCESS ROAD STA 54+00.00 - STA 59+00.00
33 ACCESS ROAD STA 59+00.00 - STA 61+28.09
34 PERMANENT SEEDING PLAN 1
35 PERMANENT SEEDING PLAN 2
36 PERMANENT SEEDING PLAN 3
37 PROJECT DETAILS & TRAFFIC CONTROL STANDARDS
38 RRWRD STANDARD DETAILS

8/19/2019
LICENSED PROFESSIONAL ENGINEER
TYLER V. NELSON
062-061714
OF ILLINOIS
Exp. 11/30/2019

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sheet set: ROCKFORD SE TRUNK S BRANCH SHEET SET

LEGEND

EXISTING	PROPOSED	
		RIGHT OF WAY LINE
		PROPERTY LINE
		BUILDING
		WATER EDGE
		EASEMENT - PERMANENT SANITARY
		EASEMENT - TEMPORARY CONSTRUCTION
		VEGETATION / TREE LINE
		TREE DRIPLINE
		CONTOUR - MAJOR
		CONTOUR - MINOR
X X	X X	FENCE
		FENCE - TEMPORARY CONSTRUCTION
SF	SF	FENCE - SILT
		ROADWAY CENTERLINE
		EDGE OF PAVEMENT
		CURB & GUTTER
		GUARD RAIL
		RAILROAD TRACKS
OC		CABLE - OVERHEAD
UC		CABLE - UNDERGROUND
OE		ELECTRIC - OVERHEAD
UE		ELECTRIC - UNDERGROUND
FO		FIBER OPTIC
G		GAS LINE
OT		TELEPHONE - OVERHEAD
UT		TELEPHONE - UNDERGROUND
TV E T HH GM EM		PEDESTALS (CATV, ELEC, TELE), HANDHOLE, GAS METER, ELEC. METER
SB 1		SOIL BORING
BM 1		BENCHMARK
		MAILBOX
		UTILITY POLE W/ GUY WIRE & MAST ARM LIGHT POLE
		TREE (DECIDUOUS & CONIFEROUS)
		BUSH & SHRUB
		GROUND / LANDSCAPE LIGHT
XXX.XX	XXX.XX	SPOT ELEVATION

LEGEND

EXISTING	PROPOSED	
		SANITARY MANHOLE & SANITARY SEWER
CO	CO	SANITARY SEWER SERVICE & CLEANOUT
FM	FM	SANITARY FORCEMAIN
		STORM SEWER
		STORM MANHOLE, CATCH BASIN, CURB INLET, INLET SPECIAL
		DRAINAGE CULVERT, WITH END SECTION
W	W	WATER MAIN
WS	WS	WATER SERVICE & WATER SERVICE VALVE
		WATER MAIN VALVE
		WATER MAIN VALVE WITH BOX
		WATER MAIN VALVE WITH VAULT
		WATER MAIN REDUCER
		FIRE HYDRANT
HMA AGG. CONC. TURF		EXISTING SURFACE TYPE (HOT-MIX ASPHALT, AGGREGATE, CONCRETE, TURF)
		DITCH CHECK
		INLET OR PIPE PROTECTION
		STABILIZED CONSTRUCTION ENTRANCE
		EROSION CONTROL BLANKET
		HEAVY DUTY EROSION CONTROL BLANKET
		SEEDING AREA, CLASS 1
		SEEDING AREA, CLASS 3
		PAVEMENT REPLACEMENT
		DRIVEWAY REPLACEMENT
		AGGREGATE REPLACEMENT
		RIP RAP

ABBREVIATIONS

ABD =	ABANDON(ED)	LS=	LUMP SUM
CMP =	CORRUGATED METAL PIPE	MH =	MANHOLE
CO =	CLEAN OUT	PVMNT =	PAVEMENT
CTRL=	CONTROL	PR =	PROPOSED
CY =	CUBIC YARD(S)	RCP =	REINFORCED CONCRETE PIPE
DI =	DUCTILE IRON	REM =	REMOVE(D)
EA =	EACH	REPL =	REPLACE(D)
EL =	ELEVATION	R/R =	REMOVE & REPLACE
EROS=	EROSION	SAN =	SANITARY
EX =	EXISTING	SVC =	SERVICE
FM =	FORCE MAIN	SY =	SQUARE YARD(S)
FT =	FEET	TY =	TYPE
INV =	INVERT	UNK =	UNKNOWN
LF =	LINEAR FEET	VCP =	VITRIFIED CLAY PIPE
LINCIPP =	LINED WITH CURED IN PLACE PIPE	WM =	WATER MAIN

GENERAL NOTES

1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF WORK TO THE LINES AND GRADES SHOWN ON THESE PLANS. CONSTRUCTION SHALL NOT VARY FROM PLANS WITHOUT DISTRICT APPROVAL.
2. THE ROCK RIVER WATER RECLAMATION DISTRICT, MUNICIPALITIES, PERTINENT ROADWAY AUTHORITIES, AND ALL AFFECTED PROPERTY OWNERS SHALL BE NOTIFIED AT LEAST 48 HOURS BEFORE CONSTRUCTION CAN COMMENCE.
3. ALL CASTINGS SHALL BE SET TO FINAL GRADE PER ROCK RIVER WATER RECLAMATION DISTRICT REQUIREMENTS.
4. SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN THE STATE OF ILLINOIS, LATEST EDITION, AND THE REQUIREMENTS OF THE ROCK RIVER WATER RECLAMATION DISTRICT.
5. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. AT 8-1-1 OR 1-800-892-0123 AND ANY OTHER UTILITIES NOT ON THE J.U.L.I.E. SYSTEM 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
6. ALL ROADWAY CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE ROADWAY AUTHORITY'S REQUIREMENTS, DISTRICT SPECIFICATIONS, AND THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS, LATEST EDITION.
7. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE I.E.P.A. STANDARDS AND SPECIFICATIONS, AND THE ILLINOIS URBAN MANUAL FOR SOIL EROSION AND SEDIMENT CONTROL.
8. PROTECTION OF WATER SUPPLIES SHALL BE PER THE REQUIREMENTS OF TITLE 35, C, SECTION 370.350 OF THE ILLINOIS RECOMMENDED STANDARDS FOR SEWAGE WORKS.

SPECIAL CONSIDERATIONS

1. ACCESS TO PROJECT SITE SHALL BE FROM TEMPORARY CONSTRUCTION ENTRANCE OFF OF EDSON RD ONLY.
2. THE FOLLOWING I.D.O.T. HIGHWAY STANDARDS SHALL BE USED FOR THIS PROJECT:
   280001-07
   701006-05
   701201-05
   701301-04
   701901-08
3. DEWATERING OPERATIONS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER LUMP SUM FOR **DEWATERING**. THE DEWATERING BASINS SHALL BE INSTALLED AT LOCATIONS PER AN APPROVED DEWATERING PLAN SUBMITTED BY THE CONTRACTOR. THE PLAN SHALL BE APPROVED BY AN INDEPENDENT PROFESSIONAL ENGINEER AND SHALL BE SUBMITTED TO THE DISTRICT FOR APPROVAL. THE PLAN SHALL CONTAIN ALL RELEVANT PLANS, DETAILS, CALCULATIONS, ETC., TO CLEARLY INDICATE HOW THE SANITARY SEWER TRENCH WILL BE DEWATERED AND MAINTAINED WHILE PROVIDING MEASURES TO ELIMINATE EROSION AND SEDIMENT MIGRATION. THIS PLAN WILL BECOME PART OF THE STORM WATER POLLUTION PREVENTION PLAN AND SHALL BE KEPT ONSITE.
4. EARTHWORK QUANTITIES:
   TOPSOIL EXCAVATION & STOCKPILING (SPECIAL) HAS BEEN CALCULATED USING APPROXIMATE DEPTHS OF TOPSOIL OBTAINED FROM THE *REPORT OF SOILS EXPLORATION* ALONG WITH A MAXIMUM TOPSOIL DEPTH OF 2.0 FEET. THIS ITEM SHALL BE MEASURED FOR PAYMENT IN IT'S ORIGINAL POSITION, THE VOLUME IN CUBIC YARDS COMPUTED BY MEANS OF COMPARISON OF POST-SURVEYED ELEVATIONS TO ORIGINAL SURVEYED ELEVATIONS.

   TOPSOIL EXCAVATION & PLACEMENT (SPECIAL) HAS BEEN CALCULATED USING THE STOCKPILING QUANTITY WITH A 25% SHRINKAGE FACTOR. THIS ITEM SHALL BE MEASURED FOR PAYMENT IN IT'S ORIGINAL POSITION (STOCKPILE), THE VOLUME IN CUBIC YARDS COMPUTED BY MEANS OF COMPARISON OF POST-SURVEYED ELEVATIONS TO ORIGINAL SURVEYED ELEVATIONS.
5. SEE SECTION VI OF THE PROJECT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS PERTAINING TO THE COMED EASEMENT ALONG THE NORTH SIDE OF EDSON RD.

SUMMARY OF QUANTITIES

Item No.	Item Description	Unit	Qty.
1	Sanitary Sewer, PVC PS46, 30" Dia.	LF	4002.0
2	Sanitary Sewer, Carrier Pipe, PVC PS46, 30" Dia.	LF	120.0
3	Sanitary Manhole, 5' Dia.	EACH	11.0
4	Sanitary Manhole To Be Removed (5' Dia.) and Replaced (6' Dia.)	EACH	1.0
5	Steel Casing, Jacked In Place, 54" Dia.	LF	120.0
6	Trenchless Tunneling Setup	LS	1.0
7	Sanitary Sewer Trench Subbase Improvement	CY	710.0
8	Dewatering	LS	1.0
9	Topsoil Excavation and Stockpiling (Special)	CY	15750.0
10	Topsoil Excavation and Placement (Special)	CY	12000.0
11	Exploration Trench (Special)	LF	500.0
12	Storm Sewer Removal, 12"	LF	319.0
13	Storm Sewer Removal, 15"	LF	342.0
14	Storm Sewers (Special), 12" CMP	LF	319.0
15	Storm Sewers (Special), 15" CMP	LF	342.0
16	Storm Sewers (Special), Various Diameter	LF	500.0
17	Pipe Culverts, Class C, Ty 1 Galvanized Corrugated Steel, 12"	LF	23.0
18	Pipe Culverts, Class C, Ty 1 Galvanized Corrugated Steel, 48"	LF	72.0
19	Metal End Sections, 12"	EACH	2.0
20	Metal End Sections, Multiple Inlet, 48"	EACH	2.0
21	Temporary Pipe Culvert 48"	LF	40.0
22	Pipe Underdrains, Type 2, Perforated Corrugated Steel, 6"	LF	4132.0
23	Geotechnical Fabric for Ground Stabilization	SY	5836.0
24	Aggregate Surface Course, Ty A, 12"	SY	5836.0
25	Aggregate Subgrade Improvement, 12"	SY	5836.0
26	Grading and Shaping Ditches	LF	232.0
27	Field Entrance Gate	EACH	1.0
28	Stone Riprap, RR3, 12"	SY	292.0
29	Stone Riprap, RR5, 30"	SY	413.0
30	Filter Fabric	SY	413.0
31	Inlet and Pipe Protection	EACH	3.0
32	Perimeter Erosion Barrier	LF	4600.0
33	Stabilized Construction Entrance	SY	270.0
34	Temporary Ditch Checks	LF	40.0
35	Temporary Erosion Control Seeding	POUND	1130.0
36	Seeding Class 2	ACRE	1.5
37	Preparation of Agricultural Areas	ACRE	8.8
38	Erosion Control Blanket	SY	190.0
39	Temporary Mulch	SY	2500.0
40	Mulch Method 2	ACRE	1.0
41	Removal and Replacement of Unsuitable Material	CY	500.0
42	Temporary Construction Fence	LF	3975.0
43	Construction Layout	LS	1.0
44	Railroad Liability Insurance and Right of Entry	LS	1.0
45	Railroad Flaggers	CAL DAY	20.0
46	Mobilizataion	LS	1.0
47	Traffic Control & Protection	LS	1.0

Rock River Water Reclamation District

ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
CAPITAL IMPROVEMENT PROJECT #1965

LEGEND, GENERAL NOTES, & SUMMARY OF QUANTITIES

FOR BID

Date 8/19/2019

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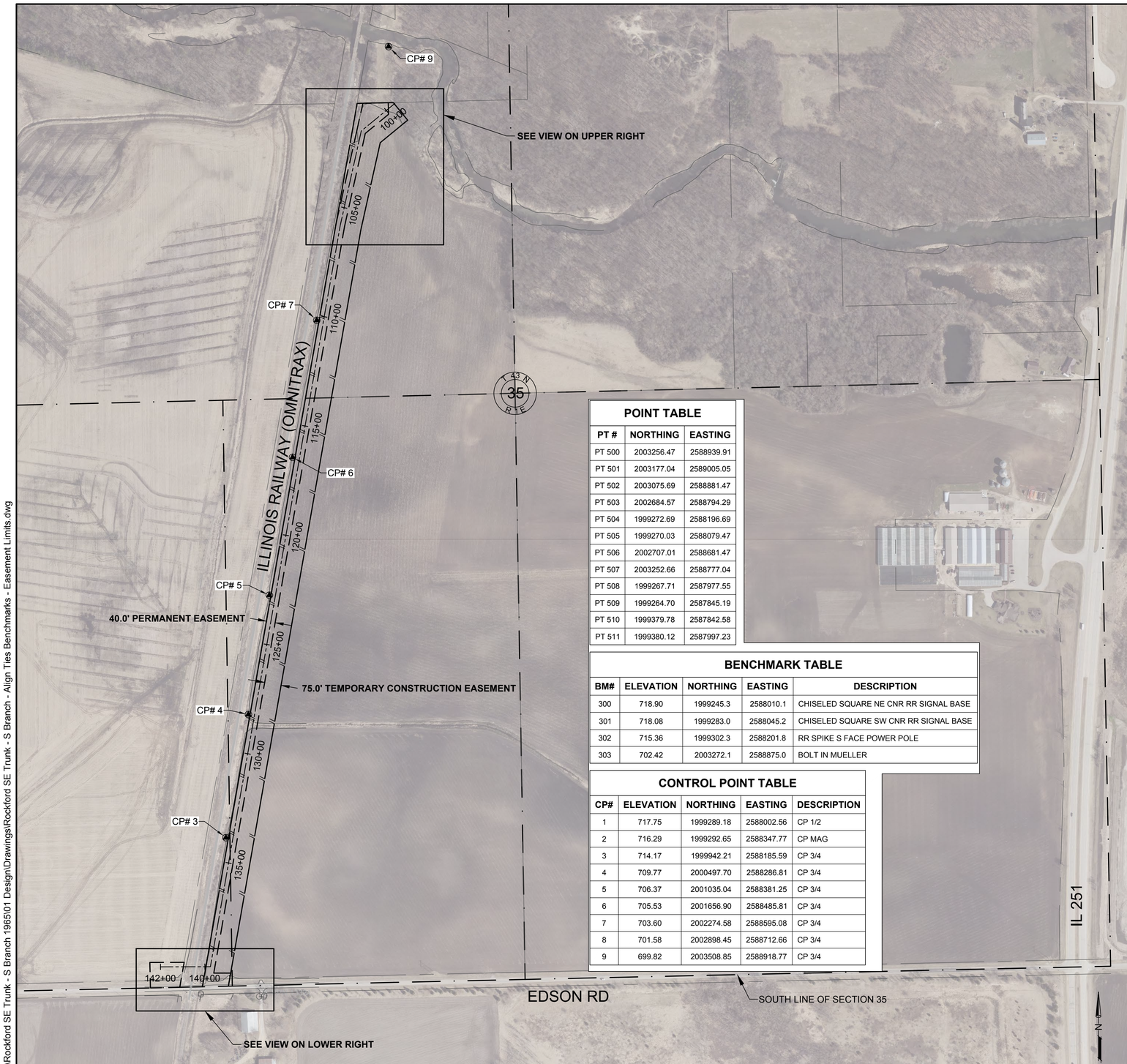


POINT TABLE

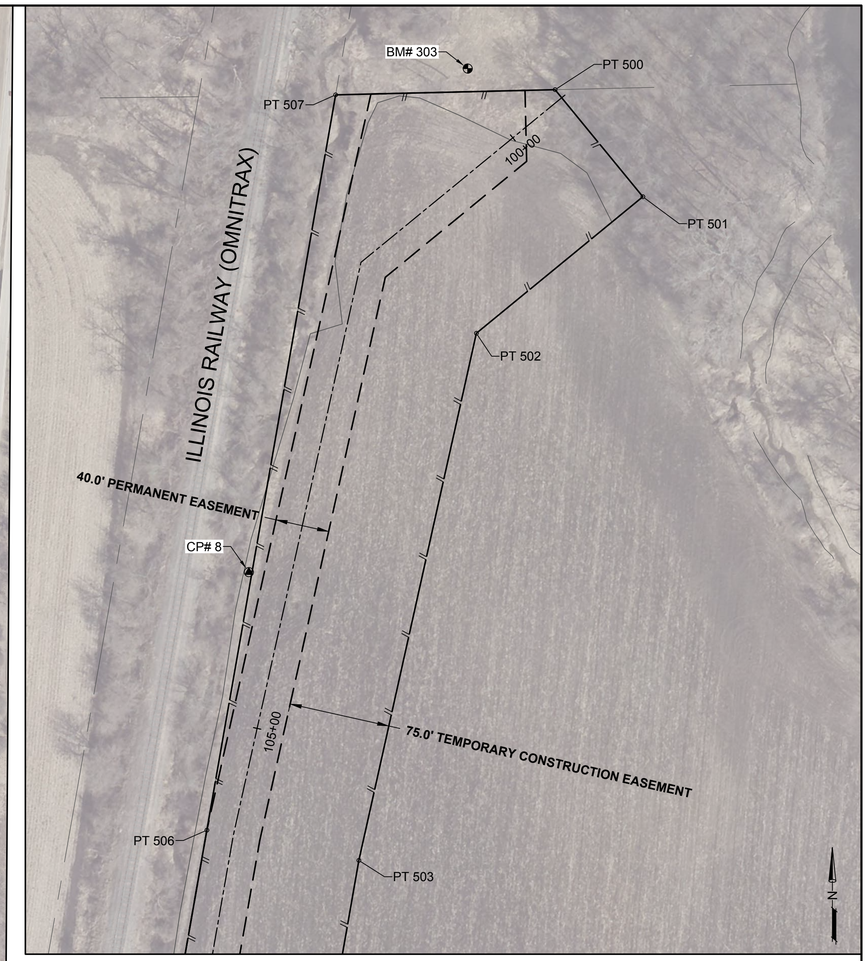
PT #	NORTHING	EASTING
PT 500	2003256.47	2588939.91
PT 501	2003177.04	2589005.05
PT 502	2003075.69	2588881.47
PT 503	2002684.57	2588794.29
PT 504	1999272.69	2588196.69
PT 505	1999270.03	2588079.47
PT 506	2002707.01	2588681.47
PT 507	2003252.66	2588777.04
PT 508	1999267.71	2587977.55
PT 509	1999264.70	2587845.19
PT 510	1999379.78	2587842.58
PT 511	1999380.12	2587997.23

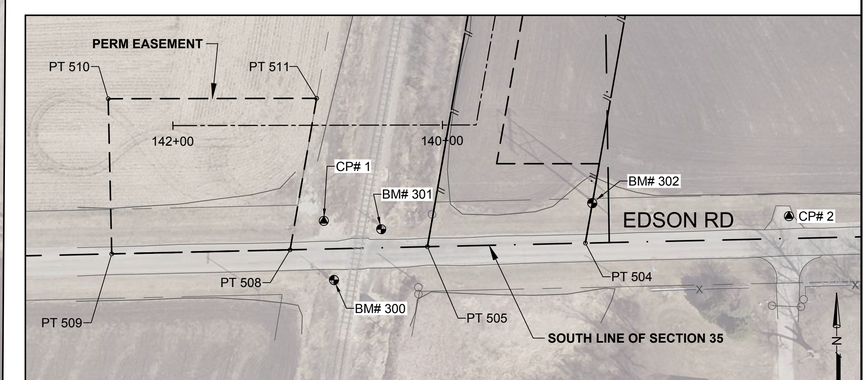
BENCHMARK TABLE

BM#	ELEVATION	NORTHING	EASTING	DESCRIPTION
300	718.90	1999245.3	2588010.1	CHISELED SQUARE NE CNR RR SIGNAL BASE
301	718.08	1999283.0	2588045.2	CHISELED SQUARE SW CNR RR SIGNAL BASE
302	715.36	1999302.3	2588201.8	RR SPIKE S FACE POWER POLE
303	702.42	2003272.1	2588875.0	BOLT IN MUELLER

CONTROL POINT TABLE

CP#	ELEVATION	NORTHING	EASTING	DESCRIPTION
1	717.75	1999289.18	2588002.56	CP 1/2
2	716.29	1999292.65	2588347.77	CP MAG
3	714.17	1999942.21	2588185.59	CP 3/4
4	709.77	2000497.70	2588286.81	CP 3/4
5	706.37	2001035.04	2588381.25	CP 3/4
6	705.53	2001656.90	2588485.81	CP 3/4
7	703.60	2002274.58	2588595.08	CP 3/4
8	701.58	2002898.45	2588712.66	CP 3/4
9	699.82	2003508.85	2588918.77	CP 3/4





Rock River Water Reclamation District

ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
CAPITAL IMPROVEMENT PROJECT #1965

ALIGNMENT, TIES, & BENCHMARKS - EASEMENTS & CONTROL

Sheet No. 3 OF 38

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Date 8/19/2019

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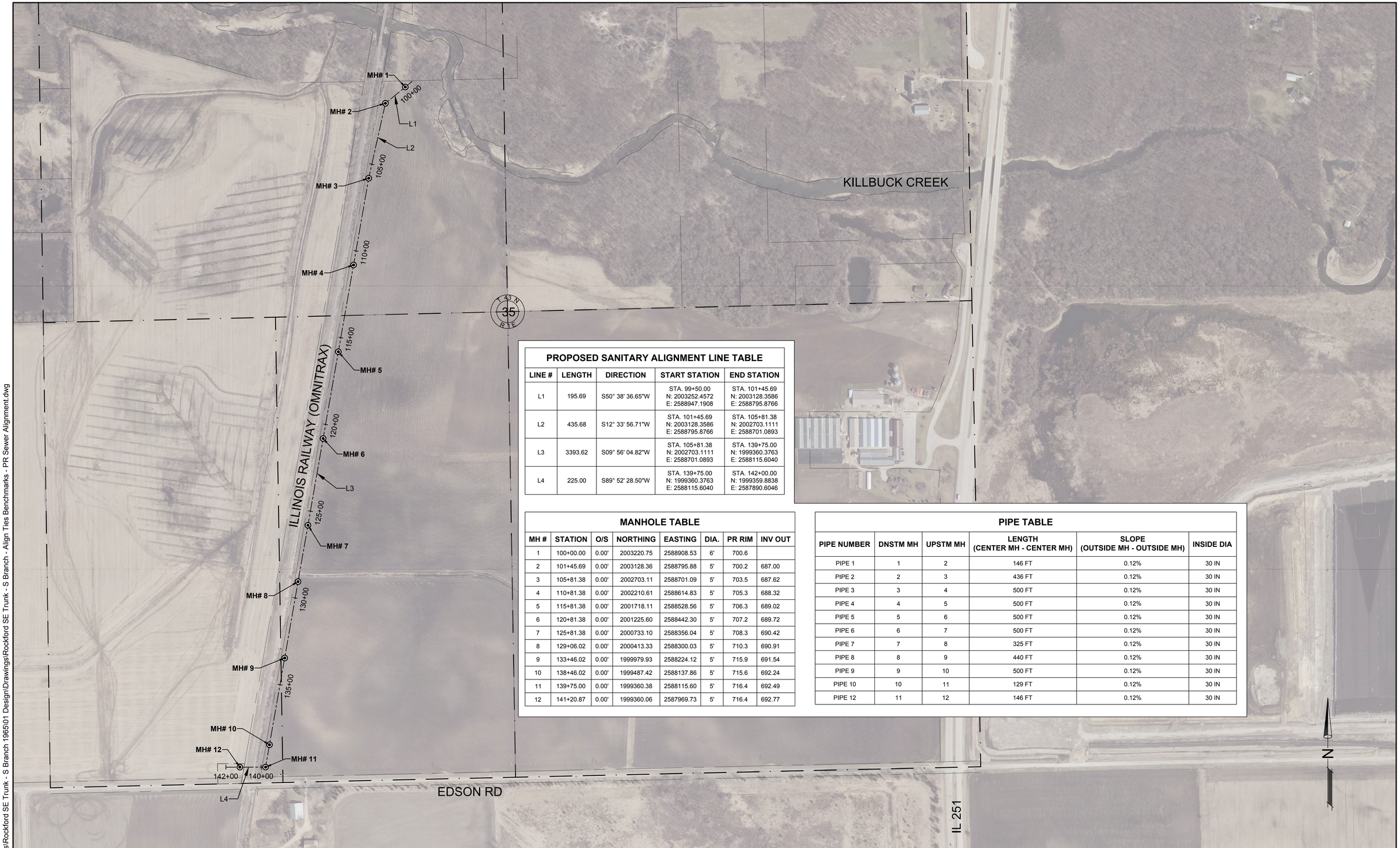

PROPOSED SANITARY ALIGNMENT LINE TABLE

LINE #	LENGTH	DIRECTION	START STATION	END STATION
L1	195.69	S50° 38' 36.65"W	STA. 99+50.00 N: 2003252.4572 E: 2588947.1908	STA. 101+45.69 N: 2003128.3586 E: 2588795.8766
L2	435.68	S12° 33' 56.71"W	STA. 101+45.69 N: 2003128.3586 E: 2588795.8766	STA. 105+81.38 N: 2002703.1111 E: 2588701.0893
L3	3393.62	S09° 56' 04.82"W	STA. 105+81.38 N: 2002703.1111 E: 2588701.0893	STA. 139+75.00 N: 1999360.3763 E: 2588115.6040
L4	225.00	S89° 52' 28.50"W	STA. 139+75.00 N: 1999360.3763 E: 2588115.6040	STA. 142+00.00 N: 1999359.8838 E: 2587890.6046

MANHOLE TABLE

MH #	STATION	O/S	NORTHING	EASTING	DIA.	PR RIM	INV OUT
1	100+00.00	0.00'	2003220.75	2588908.53	6'	700.6	
2	101+45.69	0.00'	2003128.36	2588795.88	5'	700.2	687.00
3	105+81.38	0.00'	2002703.11	2588701.09	5'	703.5	687.62
4	110+81.38	0.00'	2002210.61	2588614.83	5'	705.3	688.32
5	115+81.38	0.00'	2001718.11	2588528.56	5'	706.3	689.02
6	120+81.38	0.00'	2001225.60	2588442.30	5'	707.2	689.72
7	125+81.38	0.00'	2000733.10	2588356.04	5'	708.3	690.42
8	129+06.02	0.00'	2000413.33	2588300.03	5'	710.3	690.91
9	133+46.02	0.00'	1999979.93	2588224.12	5'	715.9	691.54
10	138+46.02	0.00'	1999487.42	2588137.86	5'	715.6	692.24
11	139+75.00	0.00'	1999360.38	2588115.60	5'	716.4	692.49
12	141+20.87	0.00'	1999360.06	2587969.73	5'	716.4	692.77

PIPE TABLE

PIPE NUMBER	DNSTM MH	UPSTM MH	LENGTH (CENTER MH - CENTER MH)	SLOPE (OUTSIDE MH - OUTSIDE MH)	INSIDE DIA
PIPE 1	1	2	146 FT	0.12%	30 IN
PIPE 2	2	3	436 FT	0.12%	30 IN
PIPE 3	3	4	500 FT	0.12%	30 IN
PIPE 4	4	5	500 FT	0.12%	30 IN
PIPE 5	5	6	500 FT	0.12%	30 IN
PIPE 6	6	7	500 FT	0.12%	30 IN
PIPE 7	7	8	325 FT	0.12%	30 IN
PIPE 8	8	9	440 FT	0.12%	30 IN
PIPE 9	9	10	500 FT	0.12%	30 IN
PIPE 10	10	11	129 FT	0.12%	30 IN
PIPE 12	11	12	146 FT	0.12%	30 IN

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ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
CAPITAL IMPROVEMENT PROJECT #1965

ALIGNMENT, TIES, & BENCHMARKS - SANITARY SEWER ALIGNMENT & STRUCTURES

FOR BID

Sheet No. 4 OF 38

Date 8/19/2019

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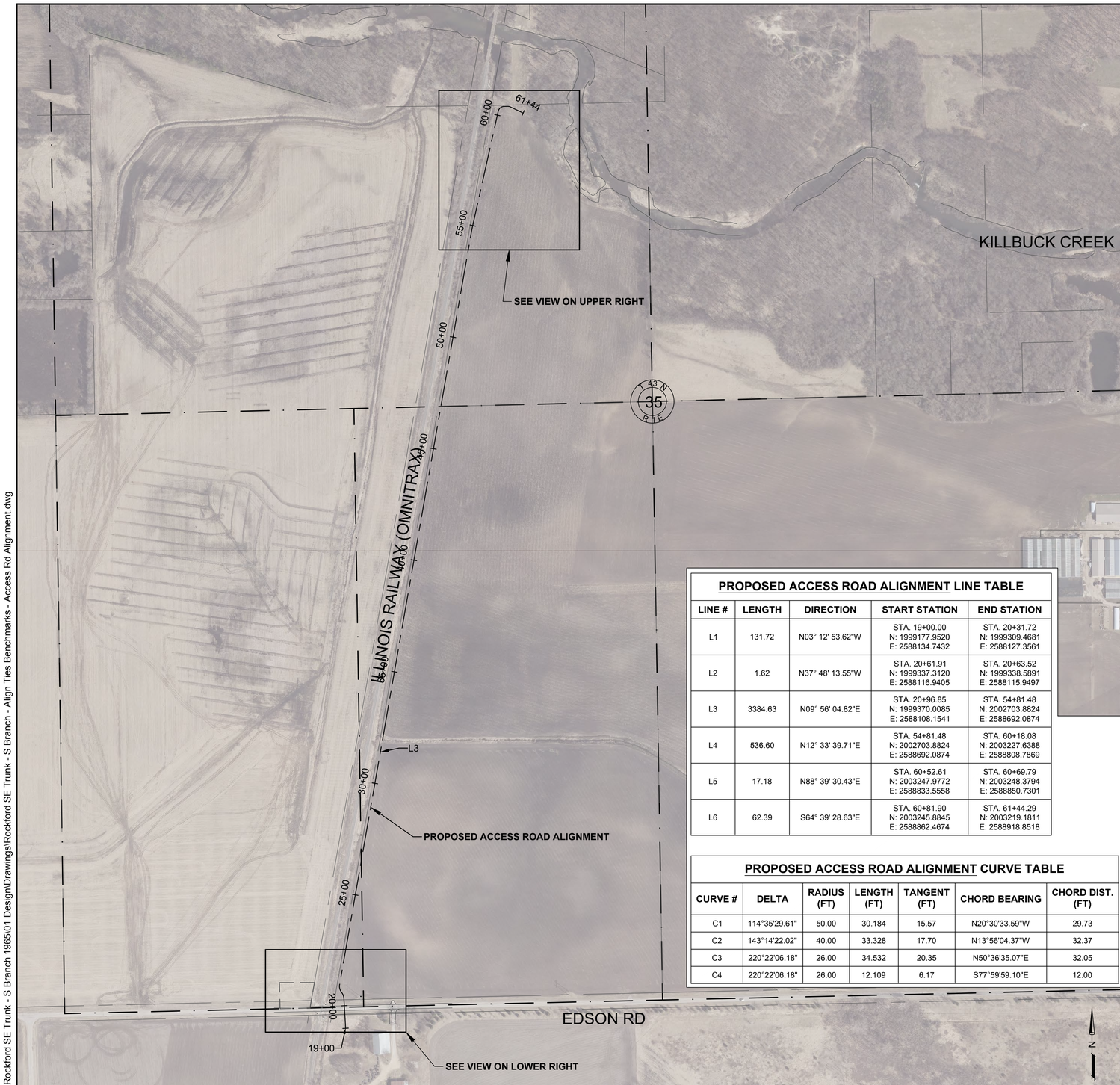

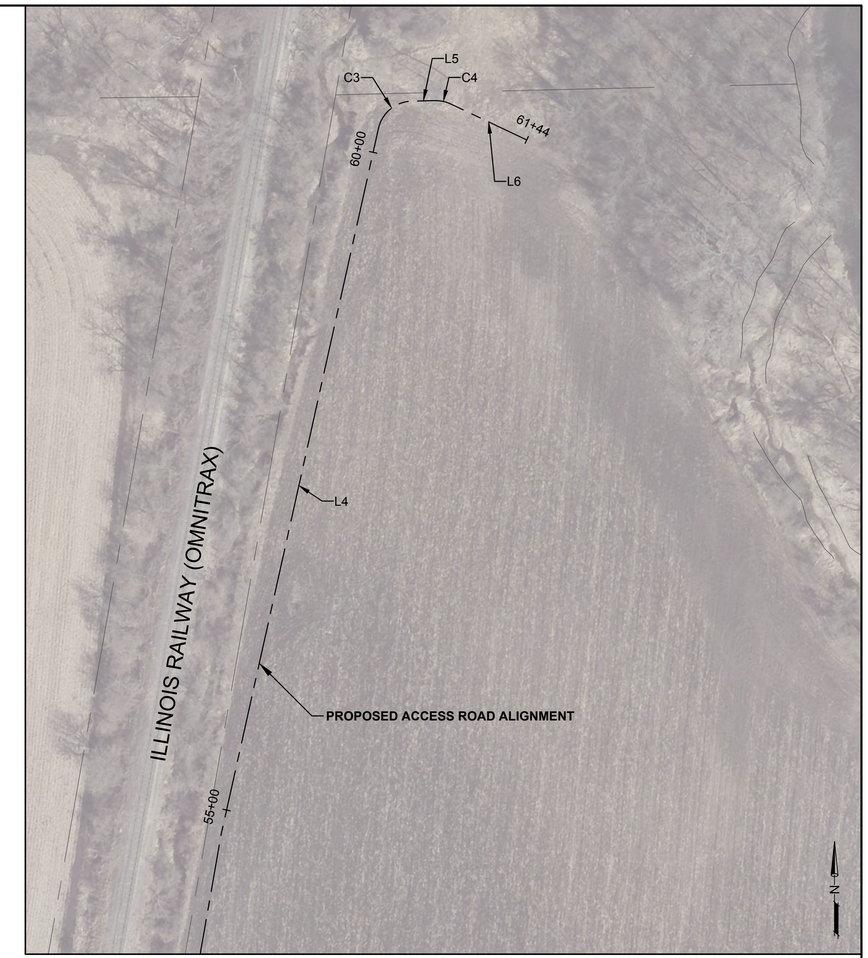

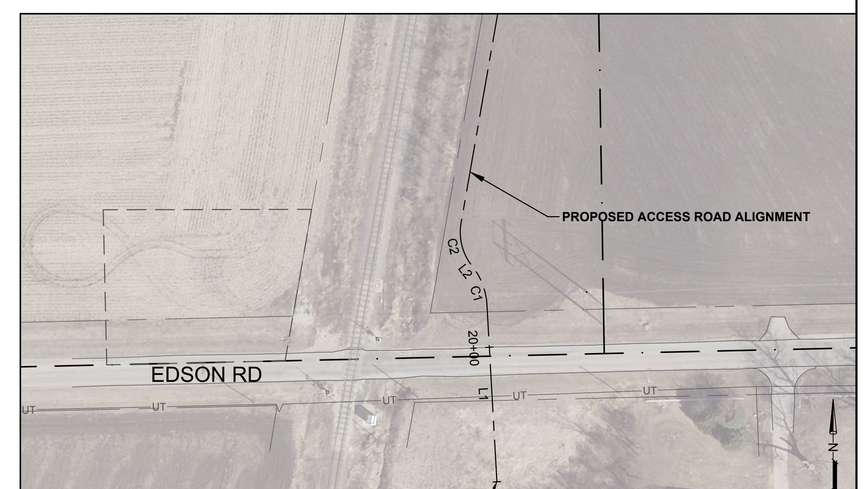

PROPOSED ACCESS ROAD ALIGNMENT LINE TABLE

LINE #	LENGTH	DIRECTION	START STATION	END STATION
L1	131.72	N03° 12' 53.62"W	STA. 19+00.00 N: 1999177.9520 E: 2588134.7432	STA. 20+31.72 N: 1999309.4681 E: 2588127.3561
L2	1.62	N37° 48' 13.55"W	STA. 20+61.91 N: 1999337.3120 E: 2588116.9405	STA. 20+63.52 N: 1999338.5891 E: 2588115.9497
L3	3384.63	N09° 56' 04.82"E	STA. 20+96.85 N: 1999370.0085 E: 2588108.1541	STA. 54+81.48 N: 2002703.8824 E: 2588692.0874
L4	536.60	N12° 33' 39.71"E	STA. 54+81.48 N: 2002703.8824 E: 2588692.0874	STA. 60+18.08 N: 2003227.6388 E: 2588808.7869
L5	17.18	N88° 39' 30.43"E	STA. 60+52.61 N: 2003247.9772 E: 2588833.5558	STA. 60+69.79 N: 2003248.3794 E: 2588850.7301
L6	62.39	S64° 39' 28.63"E	STA. 60+81.90 N: 2003245.8845 E: 2588862.4674	STA. 61+44.29 N: 2003219.1811 E: 2588918.8518

PROPOSED ACCESS ROAD ALIGNMENT CURVE TABLE

CURVE #	DELTA	RADIUS (FT)	LENGTH (FT)	TANGENT (FT)	CHORD BEARING	CHORD DIST. (FT)
C1	114°35'29.61"	50.00	30.184	15.57	N20°30'33.59"W	29.73
C2	143°14'22.02"	40.00	33.328	17.70	N13°56'04.37"W	32.37
C3	220°22'06.18"	26.00	34.532	20.35	N50°36'35.07"E	32.05
C4	220°22'06.18"	26.00	12.109	6.17	S77°59'59.10"E	12.00

Rock River Water Reclamation District

ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
CAPITAL IMPROVEMENT PROJECT #1965

ALIGNMENT, TIES, & BENCHMARKS - ACCESS ROAD ALIGNMENT

Sheet No. 5 OF 38

FOR BID

Date 8/19/2019

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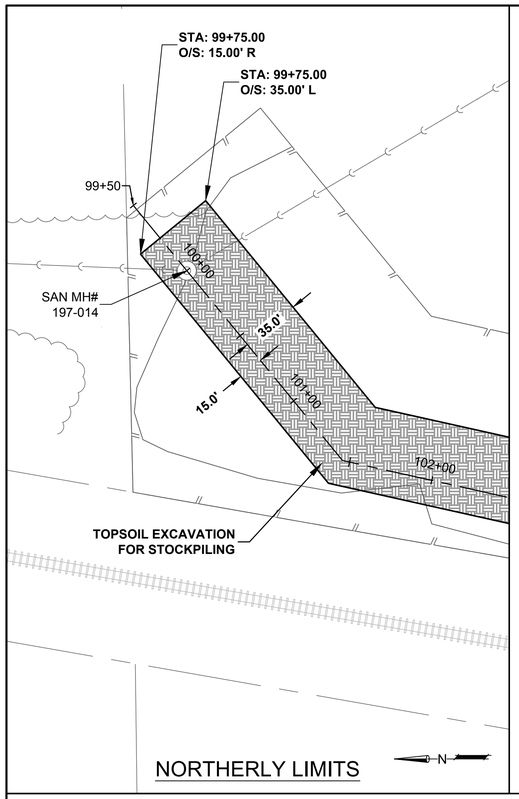
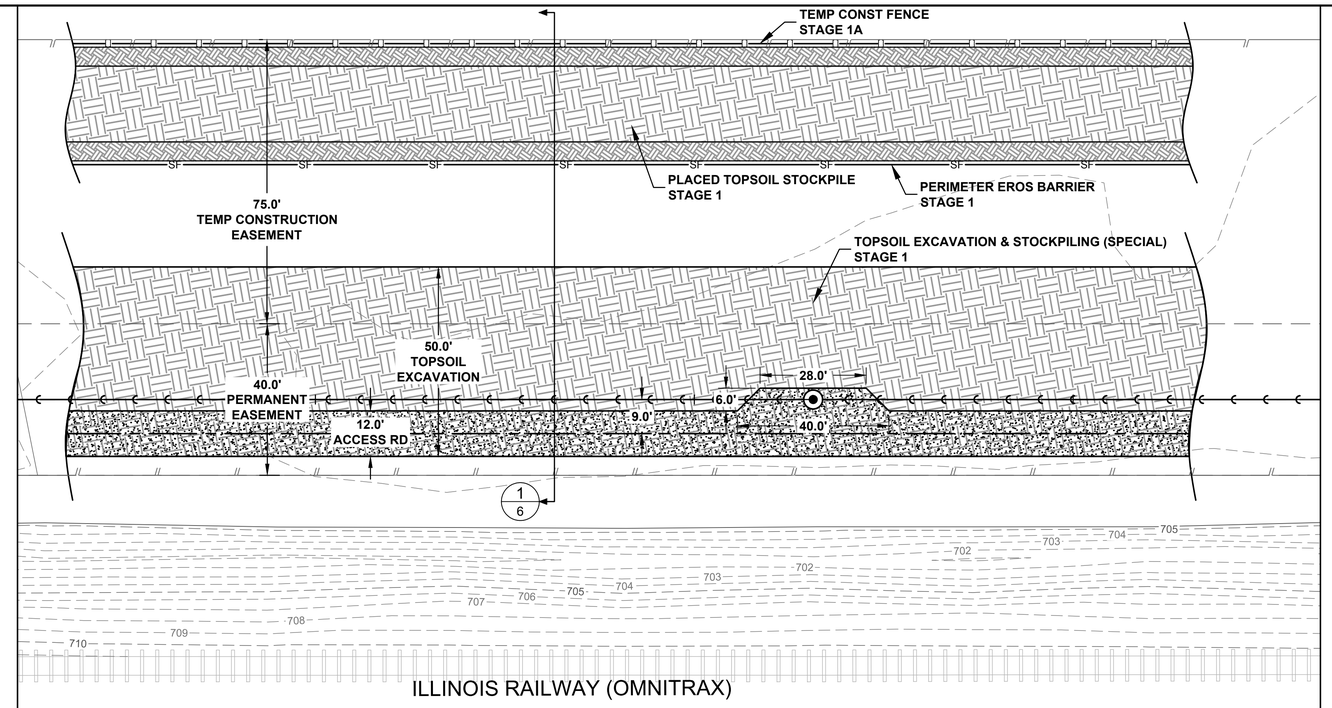
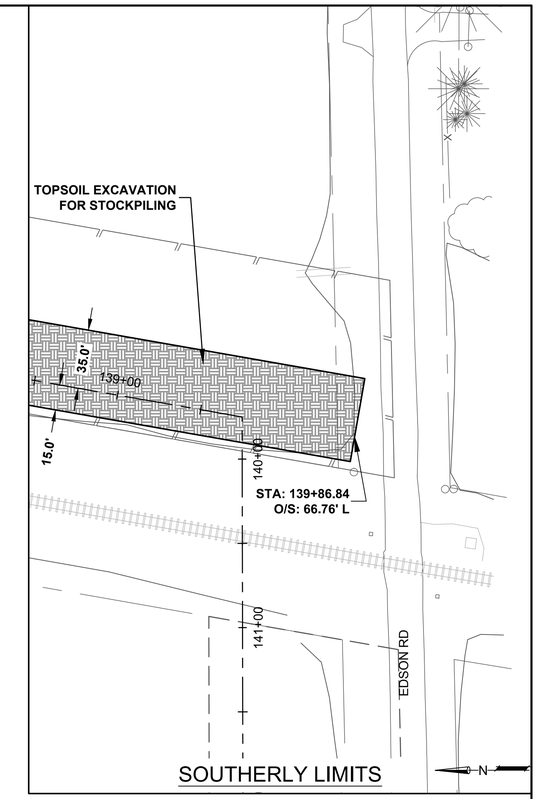


NORTHERLY LIMITS



TYPICAL STAGING DETAIL



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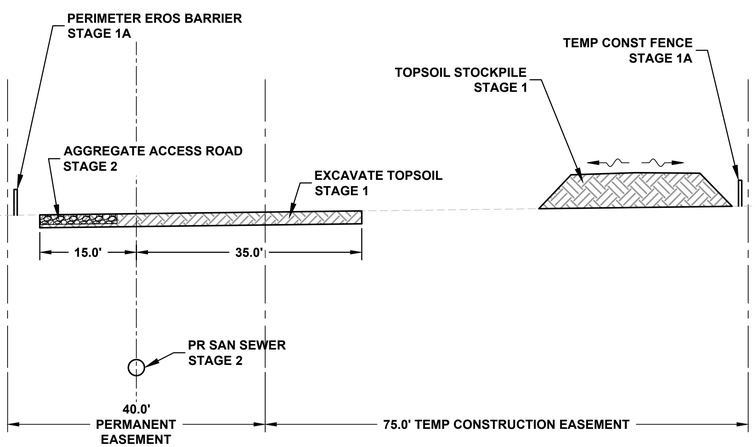

1/6 STAGING SECTION DETAIL
SCALE: NONE

STAGING NOTES

1. THE FOLLOWING STAGING REQUIREMENTS SHALL BE ADHERED TO FOR THE DURATION OF CONSTRUCTION.
2. THE ITEMS LISTED IN EACH STAGE BELOW ARE IN A SUGGESTED ORDER OF COMPLETION AND ARE MAJOR OPERATIONS OF EACH STAGE ONLY AND ARE NOT INCLUSIVE OF THE ENTIRE WORK TO BE COMPLETED.
3. STAGE 3 (TOPSOIL PLACEMENT) SHALL BEGIN AND PROGRESS AS THE SANITARY SEWER INSTALLATION REACHES STATION 110+00, AND SHALL PROCEED AT A RATE SUCH THAT THE TOPSOIL PLACEMENT OPERATIONS ARE WITHIN 500 FEET OF THE SANITARY SEWER INSTALLATION AT ALL TIMES FOR THE REMAINDER OF THE PROJECT.

STAGE 1A

1. INSTALL ALL TEMPORARY EROSION CONTROL MEASURES REQUIRED FOR OPERATIONS OCCURRING IN STAGE 1. SEE THE EROSION CONTROL SHEETS FOR SPECIFIC DEVICES, MEASURES, AND LOCATIONS CALLED OUT AS STAGE 1A.
2. INSTALL TEMPORARY PIPE CULVERT AT CREEK CROSSING STA. 128+60 (SHEET 12). INSTALL PERIMETER EROSION BARRIER ALONG EACH SIDE OF TOP OF BANK FOR WIDTH OF EASEMENT.
3. STAGE 1A SHALL BE COMPLETED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES TAKING PLACE.
4. PAY ITEMS FOR STAGE 1A INCLUDE: **PERIMETER EROSION BARRIER, TEMPORARY CONSTRUCTION FENCE, STABILIZED CONSTRUCTION ENTRANCE, TEMPORARY DITCH CHECKS, TEMPORARY PIPE CULVERT 48".**

STAGE 1

1. TOPSOIL SHALL BE REMOVED FROM THE SANITARY SEWER ALIGNMENT AND PLACED IN A BERM-SHAPED LINEAR STOCKPILE ALONG THE EAST SIDE OF THE TEMPORARY CONSTRUCTION EASEMENT. REMOVAL DEPTH SHALL BE BOTTOM OF TOPSOIL, TO A MAXIMUM DEPTH OF 2 FEET. THIS WORK SHALL BE PERFORMED WITH SUCH AN OPERATION THAT MINIMIZES THE MIXING AND MOVEMENT OF TOPSOIL. THIS WORK SHALL BE PERFORMED FROM STA. 99+75 TO STA. 140+43, 15' RT TO 35' LT, OMITTING APPROXIMATELY STA. 128+50 THRU 128+85.
2. THE TOPSOIL STOCKPILE SHALL BE OF HEIGHT, WIDTH, AND LENGTH REQUIRED TO STABILIZE & STORE EXCAVATED TOPSOIL. THE STOCKPILE SHALL BE COMPACTED AND CROWNED TO MINIMIZE THE INTRODUCTION OF SURFACE WATER.
3. TOPSOIL SHALL BE PROTECTED AT ALL TIMES.
4. TEMPORARY SEEDING SHALL BE APPLIED TO THE STOCKPILE WHEN STOCKPILING OF THE TOPSOIL HAS BEEN COMPLETED, OR 2 DAYS AFTER STOCKPILING OPERATIONS HAVE BEGUN, WHICHEVER IS EARLIEST.
5. PAY ITEMS FOR STAGE 1 INCLUDE: **TOPSOIL EXCAVATION AND STOCKPILING (SPECIAL), PERIMETER EROSION BARRIER, TEMPORARY EROSION CONTROL SEEDING.**

STAGE 2

1. INSTALL SANITARY SEWER AND BACKFILL TRENCH WITH EXCAVATED MATERIAL. COMPACTION SHALL BE ACCORDING TO PROJECT SPECIFICATIONS AND TYPICAL SECTION ON SHEET 7. TEST SANITARY SEWER AND MANHOLES (WITH THE EXCEPTION OF MANDREL TEST WHICH CANNOT BE PERFORMED UNTIL 30 DAYS AFTER BACKFILLING OF SANITARY SEWER) PRIOR TO INSTALLATION OF PERMANENT AGGREGATE ACCESS ROAD. INTERIM MANDREL TESTING OR SEWER TELEVISING MAY BE PERFORMED AT THE CONTRACTOR'S OPTION AT NO ADDITIONAL COST TO THE DISTRICT.
2. DEWATERING OPERATIONS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER LUMP SUM FOR **DEWATERING**. SEE SPECIAL CONSIDERATION NOTE ON SHEET 3.
3. INSTALL PERMANENT PIPE CULVERTS AND RIPRAP BANK STABILIZATION AT CREEK CROSSING STA. 128+60 (SHEET 20).
4. INSTALL REPLACEMENT FIELD TILES.
5. INSTALL PIPE UNDERDRAINS, AGGREGATE FIELD DRAINS, AND PERMANENT AGGREGATE ACCESS ROAD.
6. PAY ITEMS FOR STAGE 2 INCLUDE: **SANITARY SEWER TRENCH SUBBASE IMPROVEMENT, SANITARY SEWER PS46 30" DIA., SANITARY MANHOLE 5' DIA., PIPE CULVERTS CLASS C TYPE 1 GALVANIZED CORRUGATED STEEL 48", METAL END SECTIONS MULTIPLE INLET 48", FILTER FABRIC, STONE RIPAP RR5 24", STORM SEWER REMOVAL 12", STORM SEWER REMOVAL 15", STORM SEWERS (SPECIAL) 12", STORM SEWERS (SPECIAL) 15", EXPLORATION TRENCH (SPECIAL), STORM SEWERS (SPECIAL) VARIOUS DIAMETER, EARTH EXCAVATION, PIPE UNDERDRAINS TYPE 2 PERFORATED CORRUGATED STEEL 6", STONE RIPRAP RR3 24", REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL, GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, AGGREGATE SUBGRADE IMPROVEMENT 12", AGGREGATE SURFACE COURSE TY A 12".**

STAGE 3

1. PLACE TOPSOIL ON BOTH SIDES OF ACCESS ROAD.
2. FINISH GRADE ENTIRE DISTURBED SITE.
3. IMMEDIATELY PLACE PERMANENT SEED AND MULCH ACCORDING TO PERMANENT SEEDING PLAN. TOPSOIL PLACING OPERATIONS SHALL PROCEED AT A RATE THAT ALLOWS PLACED TOPSOIL TO BE IMMEDIATELY STABILIZED.
4. PAY ITEMS FOR STAGE 3 INCLUDE: **TOPSOIL EXCAVATION AND PLACEMENT (SPECIAL), SEEDING CLASS 2, PREPARATION OF AGRICULTURAL AREAS, MULCH METHOD 2.**

Rock River Water Reclamation District

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ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
CAPITAL IMPROVEMENT PROJECT #1965

CONSTRUCTION STAGING PLAN

FOR BID

Sheet No. 6 OF 38

Date 8/19/2019

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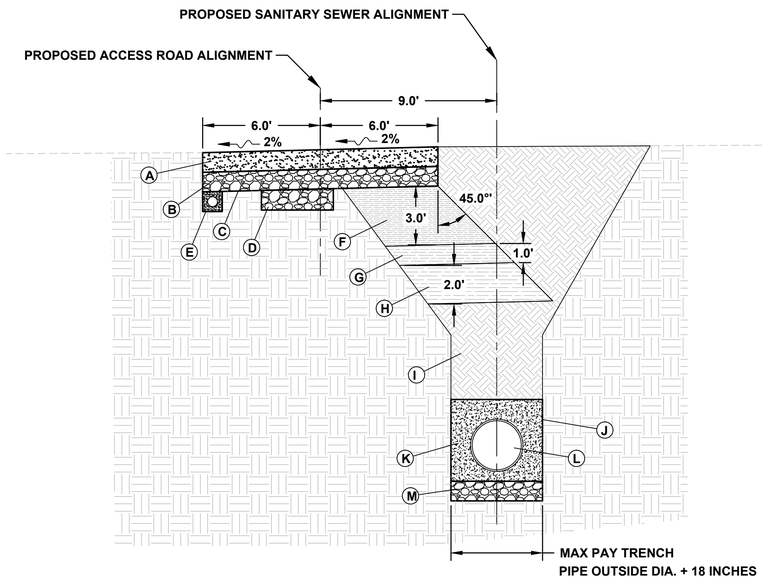
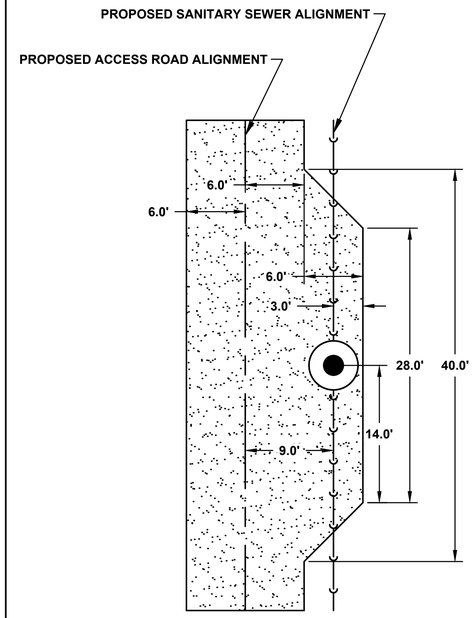


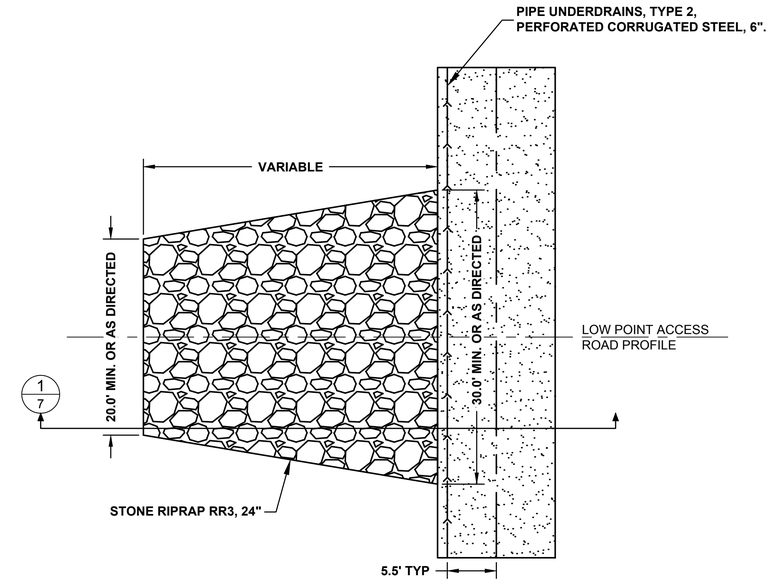
TYPICAL SECTION OF ACCESS ROAD AND SANITARY SEWER

SCALE: NONE



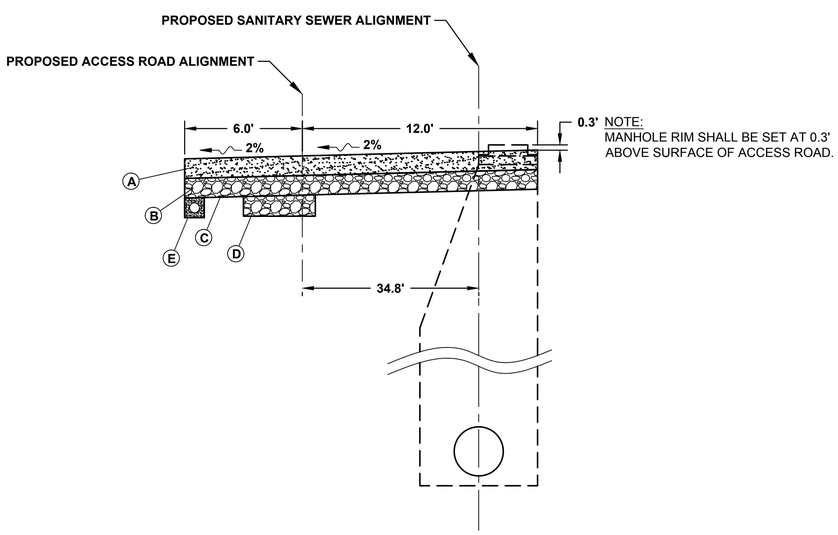
ACCESS ROAD AT MANHOLES PLAN DETAIL

SCALE: NONE



AGRICULTURAL FIELD DRAIN DETAIL

SCALE: NONE



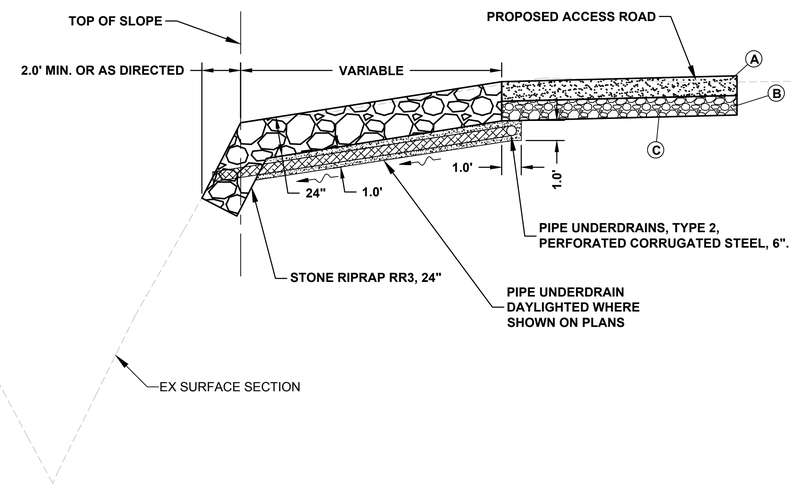
NOTE:
MANHOLE RIM SHALL BE SET AT 0.3' ABOVE SURFACE OF ACCESS ROAD.

TYPICAL SECTION AT MANHOLES

SCALE: NONE

LEGEND

- (A) **AGGREGATE SURFACE COURSE, TY A, 12".** (12" CA-06)
- (B) **AGGREGATE SUBGRADE IMPROVEMENT, 12".** (9" CS-02, CS-01 OR RR-1 & 3" CA-06)
- (C) **GEOTECHNICAL FABRIC FOR GROUND STABILIZATION**
- (D) **REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL.** UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH SAME MATERIAL USED FOR AGGREGATE SUBGRADE IMPROVEMENT AT LOCATIONS AND DEPTHS DIRECTED.
- (E) **PIPE UNDERDRAINS, TY 2, PERFORATED CORRUGATED STEEL, 6"**
- (F) BACKFILL (NATIVE MATERIAL), COMPACTED TO 95% MIN. STANDARD PROCTOR DENSITY.
- (G) BACKFILL (NATIVE MATERIAL), COMPACTED TO 93% MIN. STANDARD PROCTOR DENSITY.
- (H) BACKFILL (NATIVE MATERIAL), COMPACTED TO 90% MIN. STANDARD PROCTOR DENSITY.
- (I) BACKFILL, COMPACTED TO THE SATISFACTION OF THE ENGINEER IN 24 INCH LIFTS, UP TO WITHIN 8 FEET OF THE PROPOSED ACCESS ROAD PROFILE.
- (J) CONFINED SIDES OF TRENCH. TRENCH SHALL BE IN A CONDITION SUCH THAT IT PROVIDES SUPPORT FOR BEDDING MATERIAL AND INHIBITS MOVEMENT OF BEDDING MATERIAL, EVEN AS TRENCH BOX IS MOVED ALONG ALIGNMENT.
- (K) SANITARY SEWER PIPE BEDDING PER '*FLEXIBLE PIPE BEDDING DETAIL*', RRWRD STANDARD DETAIL SHEET.
- (L) **SANITARY SEWER, PVC PS46, 30" DIA.**, INSTALLED PER DISTRICT & MANUFACTURER'S REQUIREMENTS, WHICHEVER IS MOST STRINGENT.
- (M) **SANITARY SEWER TRENCH SUBBASE IMPROVEMENT.** CA-01, 12 INCH DEPTH MIN. OR AS DIRECTED. MAX PAY WIDTH IS PIPE OUTSIDE DIA. PLUS 18 INCHES.



1/7 AGRICULTURAL FIELD DRAIN SECTION

SCALE: NONE

Rock River Water Reclamation District

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No.	DATE	REVISION	INT.

ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
CAPITAL IMPROVEMENT PROJECT #1965

TYPICAL SECTIONS & PROJECT DETAILS

FOR BID

Sheet No. 7 OF 38

Date 8/19/2019

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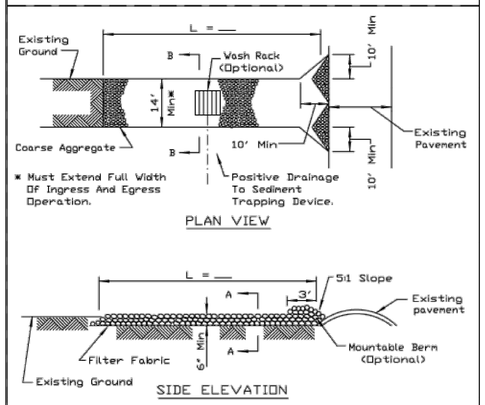
STABILIZED CONSTRUCTION ENTRANCE PLAN

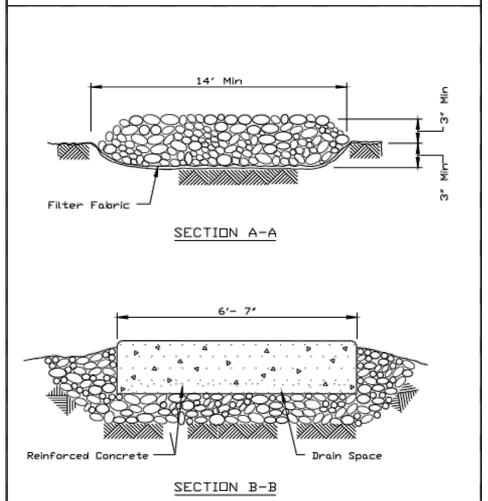


NOTES:

1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
4. If wash racks are used they shall be installed according to the manufacturer's specifications.

REFERENCE			NRCS Natural Resources Conservation Service	STANDARD DWG. NO.
Project				IL-630
Designed		Date		SHEET 1 OF 2
Checked		Date		DATE 8-18-94
Approved		Date		

STABILIZED CONSTRUCTION ENTRANCE PLAN



REFERENCE			NRCS Natural Resources Conservation Service	STANDARD DWG. NO.
Project				IL-630
Designed		Date		SHEET 2 OF 2
Checked		Date		DATE 8-18-94
Approved		Date		

SWPPP GENERAL NOTES

GENERAL NOTES

THE ESTIMATED AREA OF DISTURBANCE FOR THIS PROJECT EXCEEDS 1 ACRE. A NOTICE OF INTENT (N.O.I) WILL BE FILED. A STORM WATER POLLUTION PREVENTION PLAN (S.W.P.P.P.) HAS BEEN PREPARED FOR THIS PROJECT AND INCLUDES THIS ENTIRE PLAN SET. THE CONTRACTOR SHALL INSTALL A S.W.P.P.P. MAILBOX IN AN ACCESSIBLE LOCATION ONSITE THAT SHALL CONTAIN THE S.W.P.P.P. PLAN, ANY CHANGES TO THE SWPPP PLAN, INSPECTION REPORTS, AND ALL OTHER RELEVANT DOCUMENTS. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS URBAN MANUAL, CURRENT EDITION, I.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND THE PROJECT SPECIFICATIONS AND DETAILS.

THE EROSION CONTROL DEVICES, MATERIALS AND PROCEDURES SHOWN IN THESE PLANS ARE TO BE CONSIDERED A MINIMUM. ADDITIONAL DEVICES OR MATERIALS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS, AT THE DIRECTION OF THE ENGINEER. ANY DEVICES, MATERIALS, OR PROCEDURES REQUIRED BY THE ENGINEER DUE TO THE CONTRACTOR'S ACTIONS OR NEGLIGENCE WILL BE AT NO ADDITIONAL COST TO THE DISTRICT.

ALL DISTURBED AREAS SHALL BE SEEDED UNLESS AGRICULTURAL OR OTHERWISE NOTED ON THE PLANS. THE CONTRACTOR IS RESTRICTED TO WORK IN TEMPORARY EASEMENTS OR WORK AREAS DELINEATED ON PLANS. THE CONTRACTOR SHALL TAKE WHATEVER ACTIONS AND MEASURES ARE DEEMED NECESSARY BY THE DISTRICT OR AUTHORIZED AGENCY TO ELIMINATE EXCESSIVE SILTATION OR EROSION AND TO STABILIZE THE PROJECT AREA. DISCHARGE OF HAZARDOUS SUBSTANCES INTO STORM WATER IS SUBJECT TO I.E.P.A. REPORTING AND CLEANUP REQUIREMENTS.

CONTROL MEASURES

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE BEFORE CONSTRUCTION IN EACH AREA, AS DETERMINED BY THE ENGINEER, AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. CONSTRUCTION ACTIVITIES SHALL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE PRACTICAL. THE FOLLOWING CONTROLS WILL BE PROVIDED AS A MINIMUM FOR THE DURATION OF THIS PROJECT:

- SEDIMENT CONTROL SHALL BE PROVIDED DOWNSLOPE OF ALL STOCKPILE AREAS.
- STABILIZED CONSTRUCTION ENTRANCES MUST BE INSTALLED AS DETAILED AND WHERE REQUIRED BY THE ROADWAY AUTHORITY OR DISTRICT.
- INLET PROTECTION MUST BE INSTALLED FOR ALL INLETS THAT COULD BE SUBJECT TO SILTATION, AS DETERMINED BY THE ENGINEER.
- ALL ROADWAYS SHALL BE KEPT CLEAN OF DEBRIS, MUD, SOIL, AND CONSTRUCTION MATERIALS AND SHALL BE INSPECTED AT THE END OF EACH DAY AND CLEANED AS NECESSARY.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 7 DAYS IF THEY ARE TO REMAIN DISTURBED FOR MORE THAN 14 DAYS.

INSPECTIONS

INSPECTIONS MUST BE COMPLETED BY A QUALIFIED PERSON EVERY 7 DAYS AND WITHIN 24 HOURS OF EACH RAIN EVENT WITH OVER 0.5" OF RAIN OR SNOWFALL EQUIVALENT. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REPAIRED AND MODIFIED AS NEEDED TO BE EFFECTIVE AND TO PREVENT EROSION AND POLLUTANTS FROM DISCHARGING FROM SITE. A REPORT SHALL BE COMPLETED WITH EACH INSPECTION, AND SHALL BE KEPT ACCESSIBLE ONSITE WITH THE S.W.P.P.P.

MAINTENANCE

CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIR OF ALL EROSION AND SEDIMENT CONTROL DEVICES AND PROTECTIVE MEASURES AS REQUIRED TO MAINTAIN THE INTENDED FUNCTION. SEDIMENT COLLECTED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS AS NEEDED. ANY DEBRIS OR SILT DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, DITCHES, ETC. THAT COULD OBSTRUCT FLOW SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL TEMPORARY EROSION CONTROL DEVICES WITHIN 30 DAYS OF FINAL SITE STABILIZATION APPROVAL BY THE DISTRICT. THE SITE SHALL HAVE A MIN. OF 70% VEGETATIVE COVER TO BE CONSIDERED STABILIZED.

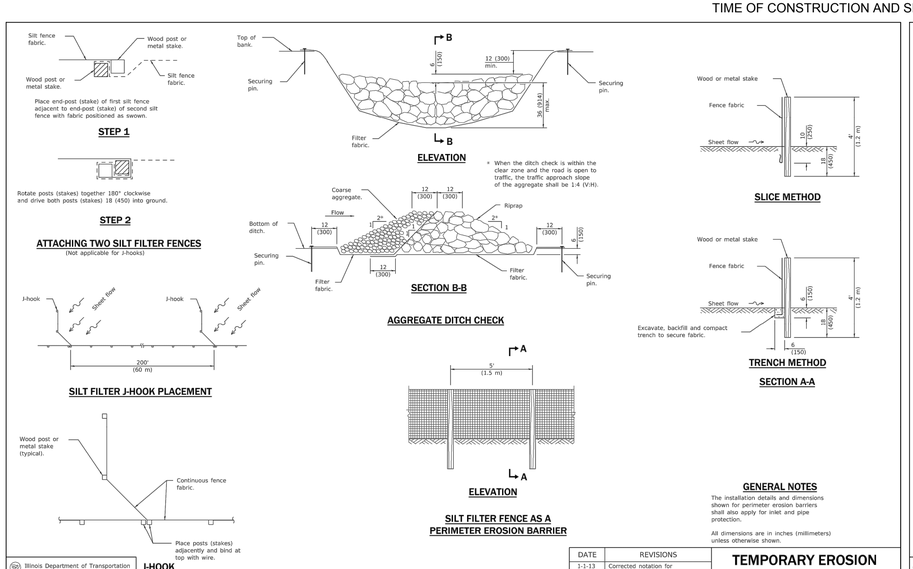
OTHER DISCHARGES

NON STORM WATER DISCHARGES INCLUDING WASHING OF VEHICLES, CONCRETE WASH-OUT, WATER FOR DUST CONTROL, AND TRENCH DEWATERING DISCHARGES SHALL BE DIRECTED AWAY FROM UNPROTECTED, BARE, OR UNSTABILIZED SOIL AND APPROPRIATE MEASURES SHALL BE IMPLEMENTED TO PREVENT EROSION OR DEGRADATION OF RUNOFF FROM THE SITE. DEWATERING DISCHARGE MUST BE INTO SILT CONTAINMENT BAGS WITH PROPERLY ENGINEERED ANIONIC POLYMER AND FABRIC PORE SIZE. UNDER NO CIRCUMSTANCE SHALL DEWATERING DISCHARGE BE ALLOWED TO FLOW DIRECTLY INTO WATERWAYS. A DEWATERING DISCHARGE PLAN SHALL BE SUBMITTED TO THE DISTRICT FOR APPROVAL.

NOTE:
THIS S.W.P.P.P. DOES NOT CONTAIN DEWATERING DISCHARGE DETAILS. THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN APPROVED BY AN INDEPENDANT PROFESSIONAL ENGINEER TO THE DISTRICT FOR APPROVAL. THE DEWATERING PLAN SHALL CONTAIN ALL RELEVANT PLANS, CALCULATIONS, DETAILS, ETC. FOR THE TYPE OF DEWATERING INVOLVED. THIS PLAN IS TO BECOME PART OF THE PROJECT S.W.P.P.P. AT THE TIME OF CONSTRUCTION AND SHALL BE KEPT ONSITE.

LEGEND

—SF—	PERIMETER EROSION BARRIER
	TEMPORARY DITCH CHECKS
	INLET OR PIPE PROTECTION
	STABILIZED CONSTRUCTION ENTRANCE
	EROSION CONTROL BLANKET
	TEMPORARY EROSION CONTROL SEEDING
	RIP RAP



GENERAL NOTES

The installation details and dimensions shown for perimeter erosion barriers shall also apply for inlet and pipe protection.

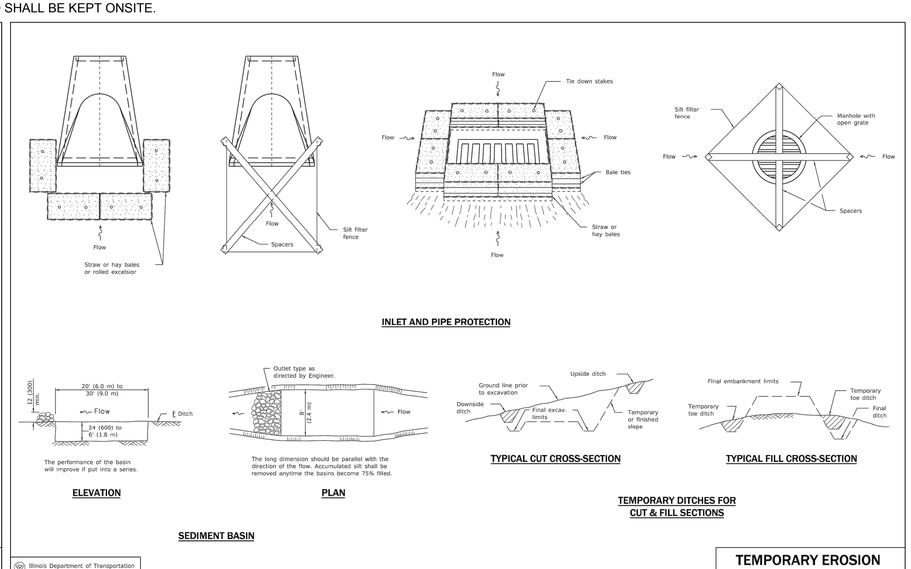
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation — PASSED January 1, 2013 — ENGINEER OF POLICY AND PROCEDURES — APPROVED January 1, 2013 — ENGINEER OF DESIGN AND ENVIRONMENT — BDG 213

DATE	REVISIONS
1-1-13	Corrected notation for flowline (E) on SEDIMENT BASIN ELEVATION.
1-1-12	Omitted hay/straw perimeter barrier. Added SLICE METHOD to SECTION A-A.

TEMPORARY EROSION CONTROL SYSTEMS (Sheet 1 of 2)

STANDARD 280001-07



Illinois Department of Transportation — PASSED January 1, 2013 — ENGINEER OF POLICY AND PROCEDURES — APPROVED January 1, 2013 — ENGINEER OF DESIGN AND ENVIRONMENT — BDG 213

TEMPORARY EROSION CONTROL SYSTEMS (Sheet 2 of 2)

STANDARD 280001-07

Rock River Water Reclamation District

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No.	DATE	REVISION	INT.

ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
CAPITAL IMPROVEMENT PROJECT #1965

TEMP EROSION CONTROL NOTES & DETAILS

Sheet No. 8 OF 38

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Date 8/19/2019

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15XX EDSON RD.
15-35-100-004
GENSLER GARDENS, INC.

TEMP CONST FENCE, 2822 FT
STAGE 1

TEMP EROS CTRL SEEDING, 1110 POUNDS
NORTHERLY EXTENTS TO EDSON RD
STAGE 1

75.0' TEMP EASEMENT

40.0' PERM EASEMENT

MATCH LINE - STA. - 104+00.00

TREE / BRUSH LINE

99+50

SAN MH TO BE R/R, 6' DIA
EX MH# 197-014, 5' DIA
PR MH# 1, 6' DIA
STAGE 2

100+00

101+00

102+00

103+00

104

SAN MH 5' DIA
MH# 2
STAGE 2

EDGE OF FIELD

EDGE OF FIELD

PERIMETER EROS BARRIER
INSTALLED ALONG TEMP CONST EASEMENTS
FROM 99+55 92' LT, ALONG WEST EASEMENET
LINE, TO TOP OF CREEK BANK
3097 FT
STAGE 1A

12" CMP
INV=695.76

15" CMP
INV=695.30

ILLINOIS RAILWAY (OMNITRAX)

N

20 0 20 40
SCALE IN FEET

NOTE:
1. FOR LEGEND DESCRIPTIONS & NOMENCLATURE SEE SHEET 8.

SEE SHEET 10

15XX EDSON RD.
15-35-100-004
GENSLER GARDENS, INC.

TEMP CONST FENCE, 2822 FT
STAGE 1

TEMP EROS CTRL SEEDING, 1110 POUNDS
NORTHERLY EXTENTS TO EDSON RD
STAGE 1

PERIMETER EROS BARRIER
INSTALLED ALONG TEMP CONST EASEMENTS
FROM 99+55 92' LT, ALONG WEST EASEMENET LINE, TO TOP OF CREEK BANK
3097 FT
STAGE 1A

75.0' TEMP EASEMENT

40.0' PERM EASEMENT

MATCH LINE - STA. - 104+00.00

MATCH LINE - STA. - 108+50.00

+00

105+00

106+00

107+00

108+00

SAN MH 5' DIA
MH# 3
STAGE 2

ILLINOIS RAILWAY (OMNITRAX)

N

20 0 20 40
SCALE IN FEET

Rock River Water Reclamation District

ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
CAPITAL IMPROVEMENT PROJECT #1965

TEMP EROSION CONTROL 99+50.00 - 104+00.00

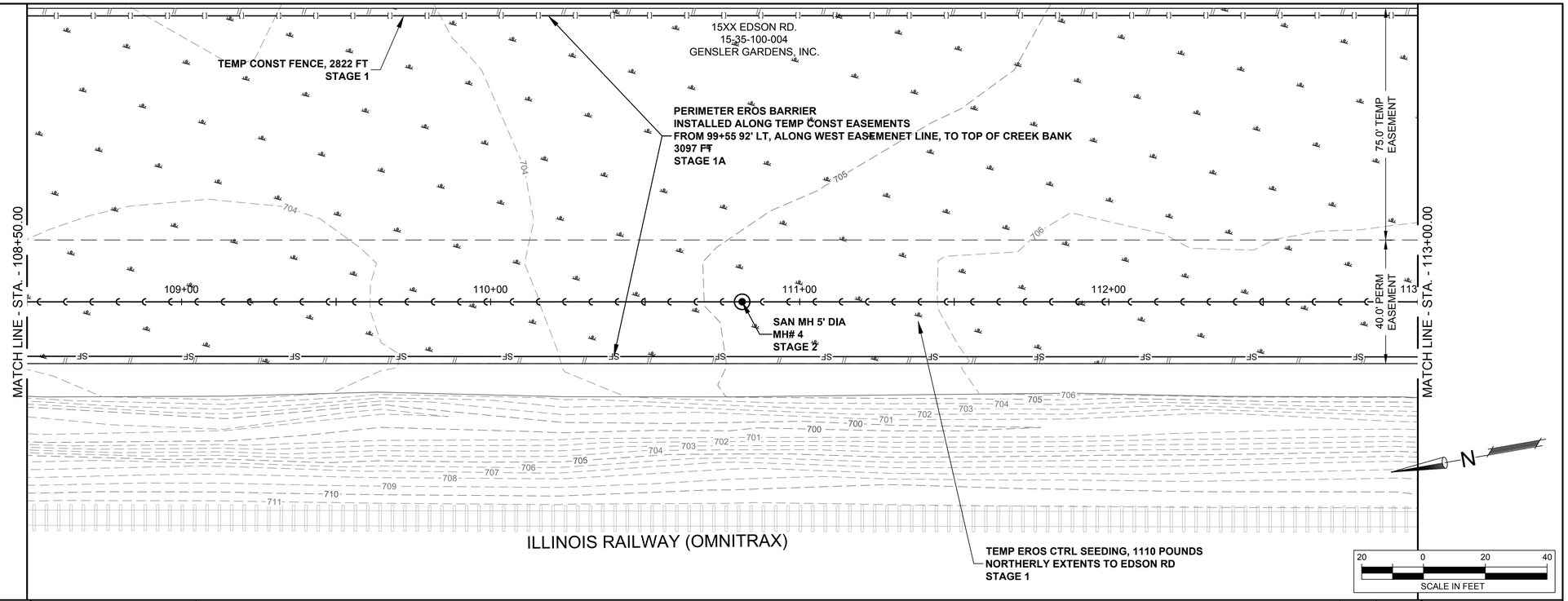
Sheet No.
9 OF 38

FOR BID

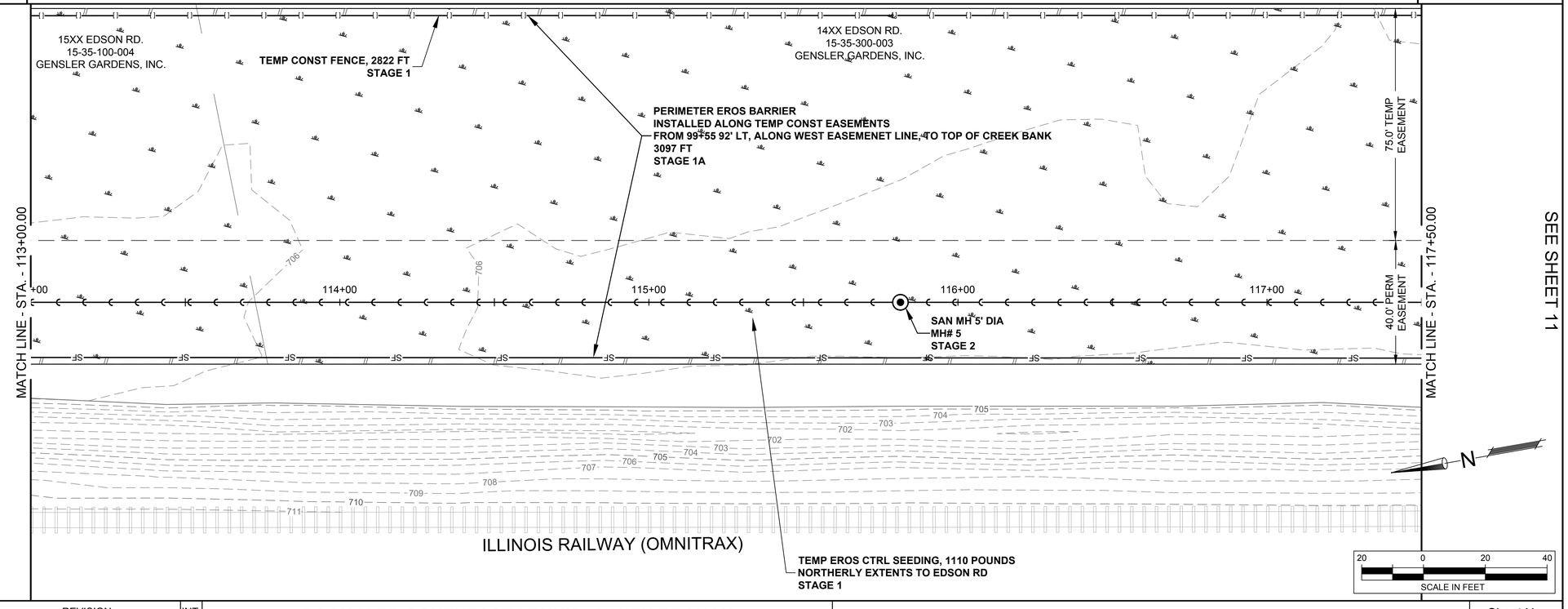
Date
8/19/2019

file: I:\District Projects\Rockford SE Trunk - S Branch 1965\01 Design\Drawings\Rockford SE Trunk - S Branch - Erosion Control.dwg

SEE SHEET 9



NOTE:
1. FOR LEGEND DESCRIPTIONS & NOMENCLATURE SEE SHEET 8.



SEE SHEET 11

Rock River Water Reclamation District

ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
CAPITAL IMPROVEMENT PROJECT #1965

TEMP EROSION CONTROL 108+50.00 - 113+00.00

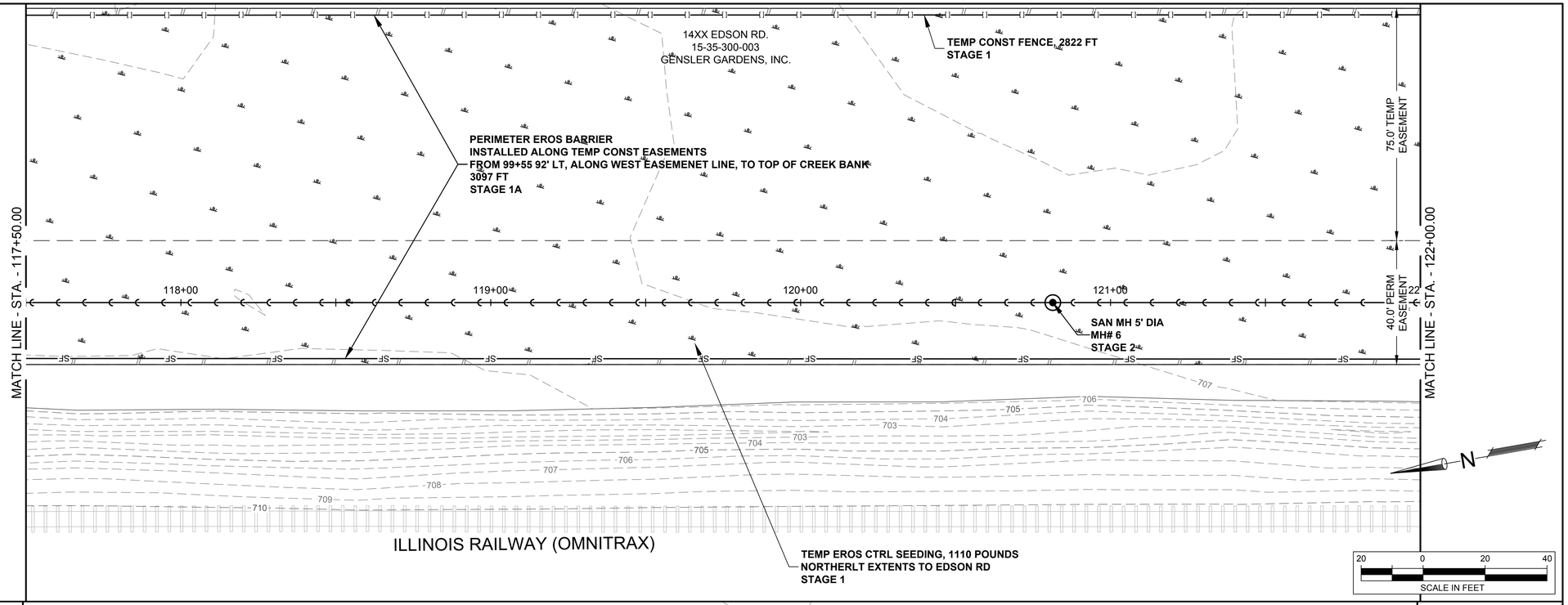
FOR BID

Sheet No.
10 OF 38

Date
8/19/2019

file: I:\District Projects\Rockford SE Trunk - S Branch 1965\01 Design\Drawings\Rockford SE Trunk - S Branch - Erosion Control.dwg

SEE SHEET 10



NOTE:
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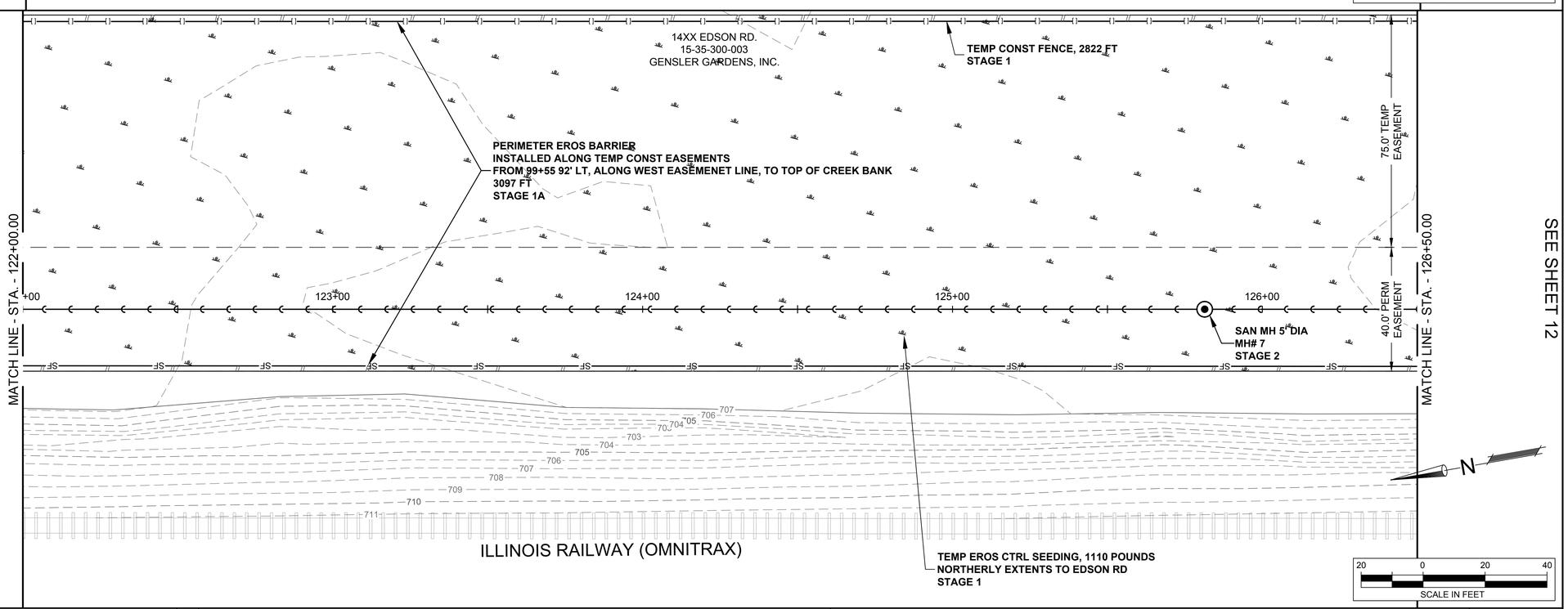

SEE SHEET 12

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Rock River Water Reclamation District

ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

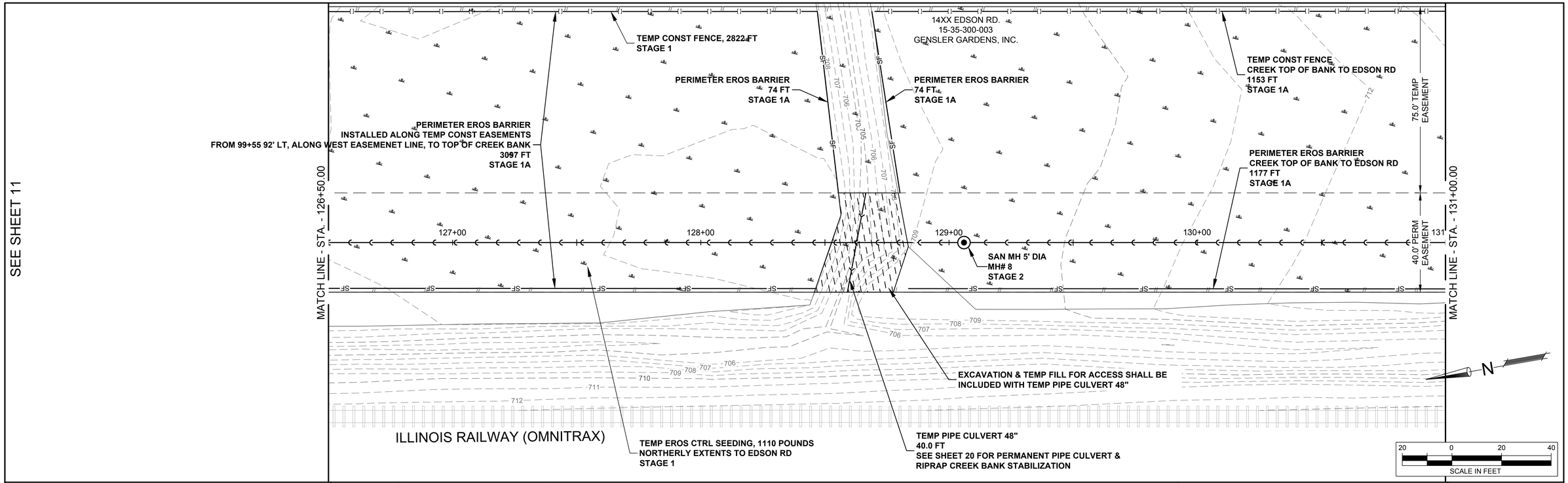
ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
CAPITAL IMPROVEMENT PROJECT #1965

TEMP EROSION CONTROL 117+50.00 - 122+00.00

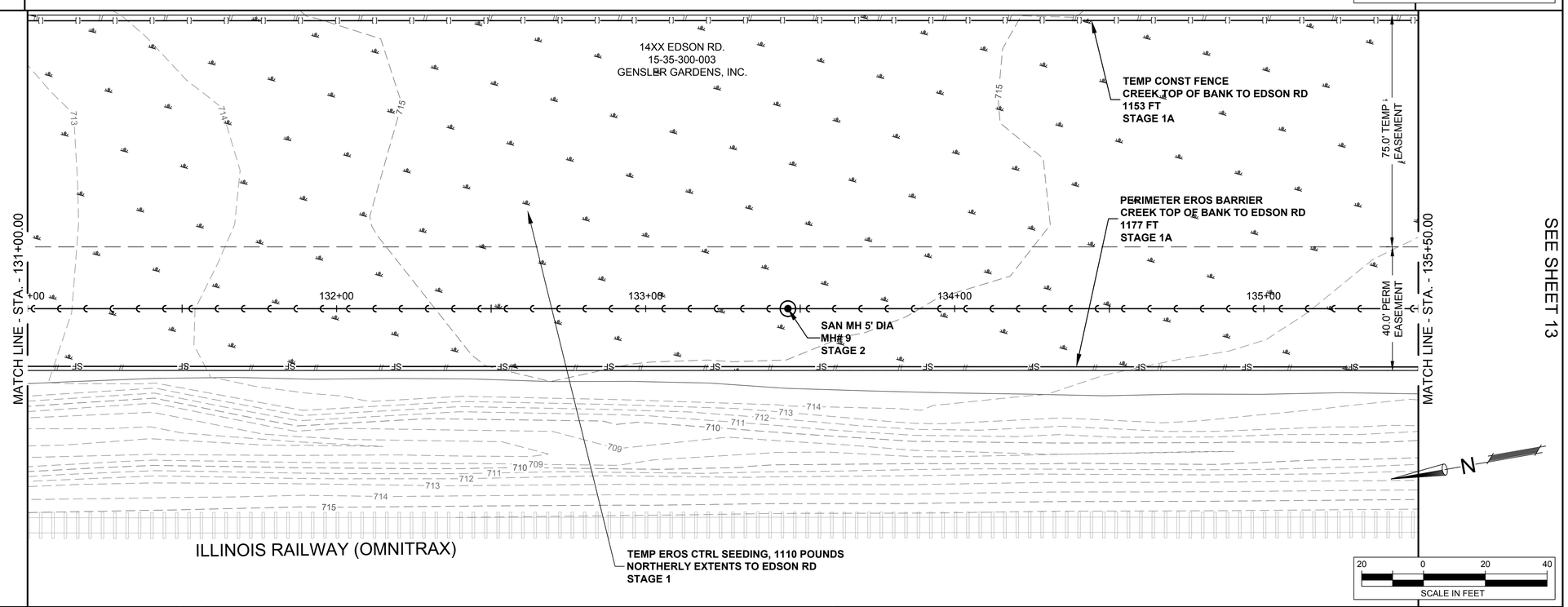
FOR BID

Sheet No. 11 OF 38

Date 8/19/2019



NOTE:
1. FOR LEGEND DESCRIPTIONS & NOMENCLATURE SEE SHEET 8.



Rock River Water Reclamation District

ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
CAPITAL IMPROVEMENT PROJECT #1965

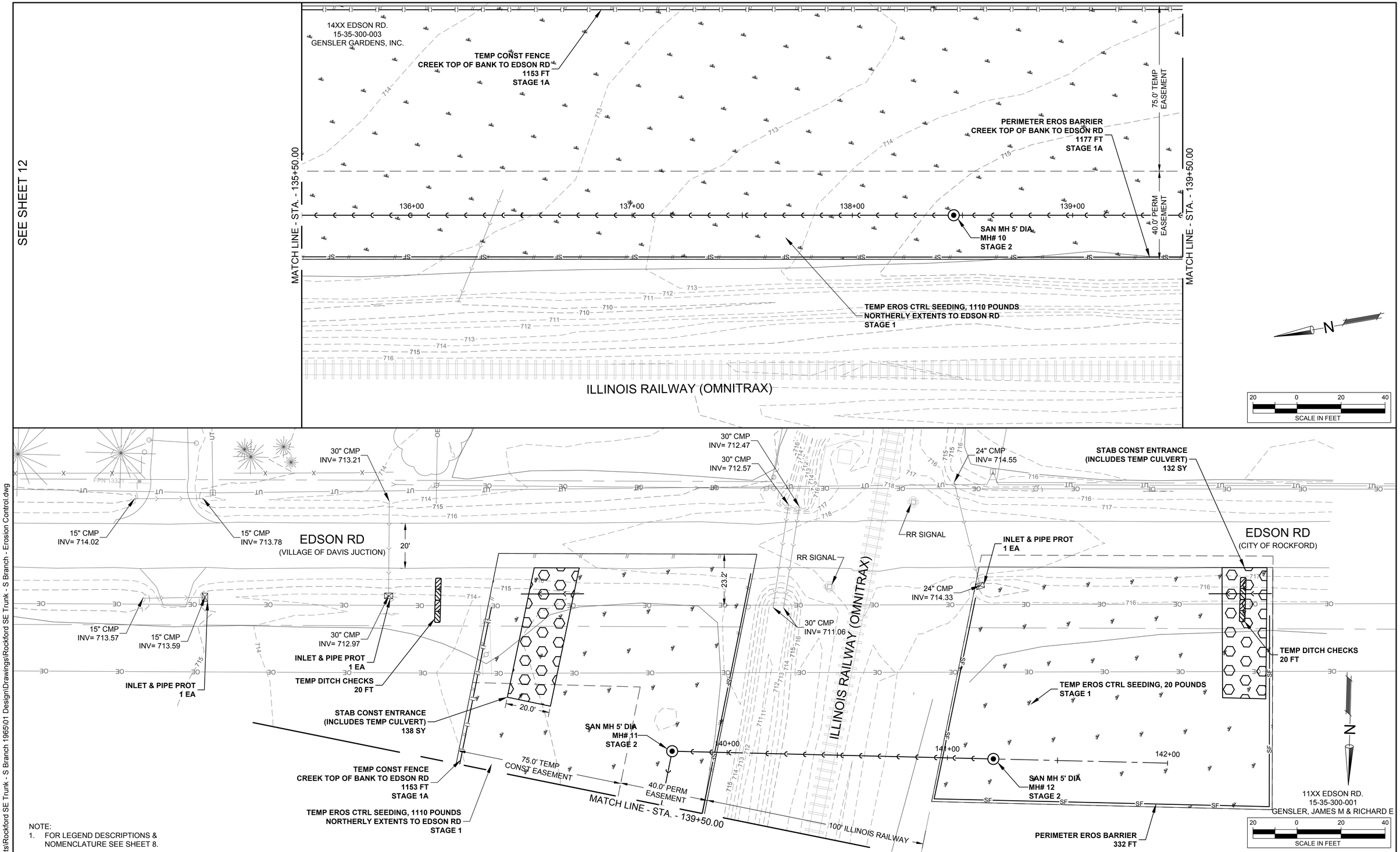
TEMP EROSION CONTROL 126+50.00 - 135+50.00

FOR BID

Sheet No.
12 OF 38

Date
8/19/2019

file: I:\District Projects\Rockford SE Trunk - S Branch 1965\01 Design\Drawings\Rockford SE Trunk - S Branch - Erosion Control.dwg



NOTE:
1. FOR LEGEND DESCRIPTIONS & NOMENCLATURE SEE SHEET 8.

Rock River Water Reclamation District

ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
CAPITAL IMPROVEMENT PROJECT #1965

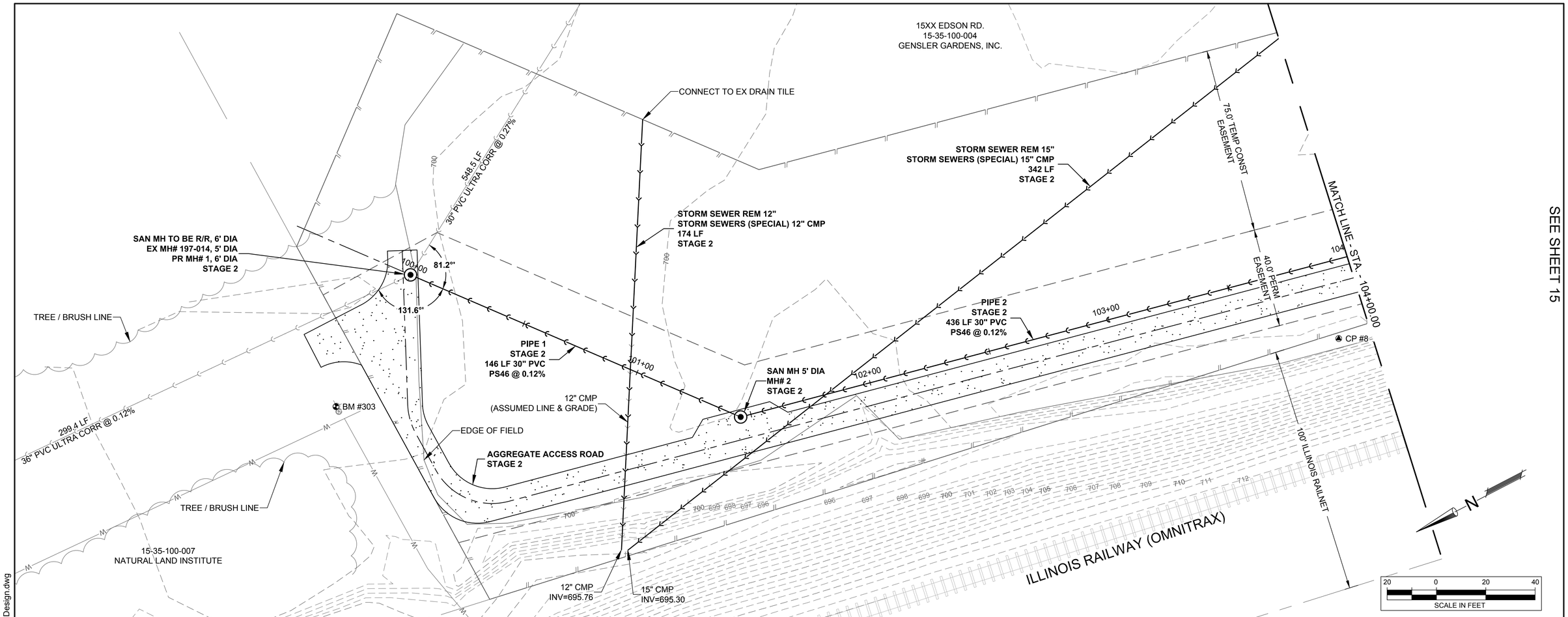
TEMP EROSION CONTROL 135+50.00 - 143+00.00

Sheet No.
13 OF 38

FOR BID

Date
8/19/2019

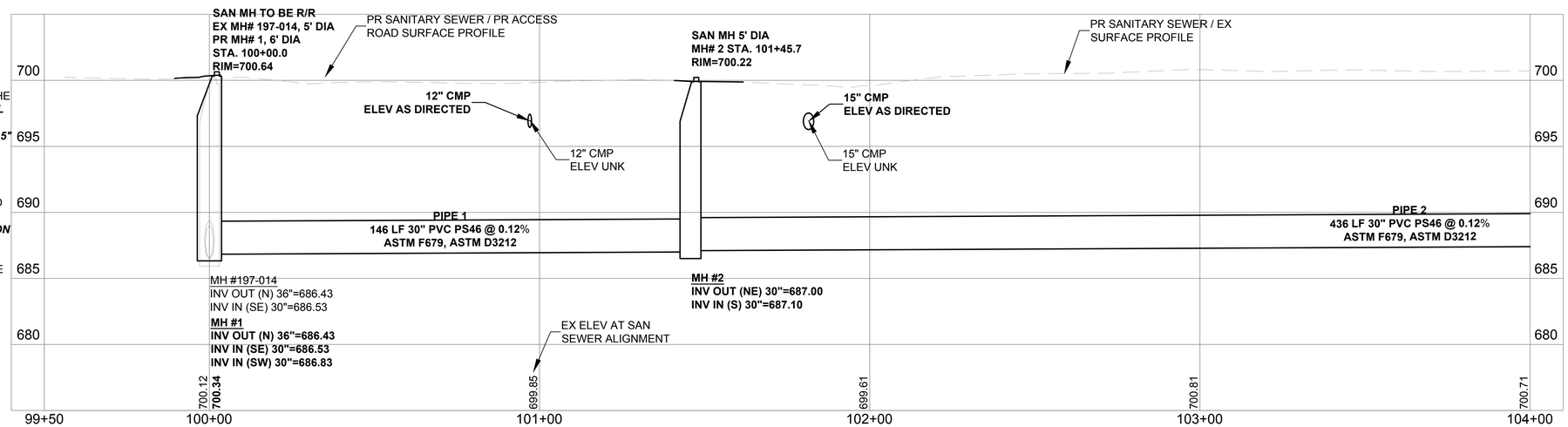
file: I:\District Projects\Rockford SE Trunk - S Branch 1965\01 Design\Drawings\Rockford SE Trunk - S Branch - Erosion Control.dwg



SEE SHEET 15

NOTES:

1. THE 12" & 15" CORRUGATED METAL PIPE FIELD TILES AT STA. 100+97 AND STA. 101+81 SHALL BE REMOVED AND REPLACED WITHIN THE EXTENTS OF THE TEMPORARY CONSTRUCTION EASEMENTS SHOWN. EXACT LINE AND GRADE TO BE DETERMINED DURING CONSTRUCTION. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR ***STORM SEWER REMOVAL 12", STORM SEWER REMOVAL 15", STORM SEWERS (SPECIAL) 12" CMP,*** AND ***STORM SEWERS (SPECIAL) 15" CMP***.
2. ALL OTHER FIELD TILES ENCOUNTERED SHALL BE REMOVED AND REPLACED WITHIN THE EXTENTS OF THE TEMPORARY CONSTRUCTION EASEMENTS SHOWN. EXACT LINE AND GRADE TO BE DETERMINED DURING CONSTRUCTION. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR ***EXPLORATION TRENCH (SPECIAL)*** (AS DIRECTED) AND ***STORM SEWERS (SPECIAL) VARIOUS DIAMETER.***
3. FOR DETAILS AND ELEVATIONS OF ACCESS ROAD SEE SHEETS 24-33.



Rock River Water Reclamation District

ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
CAPITAL IMPROVEMENT PROJECT #1965

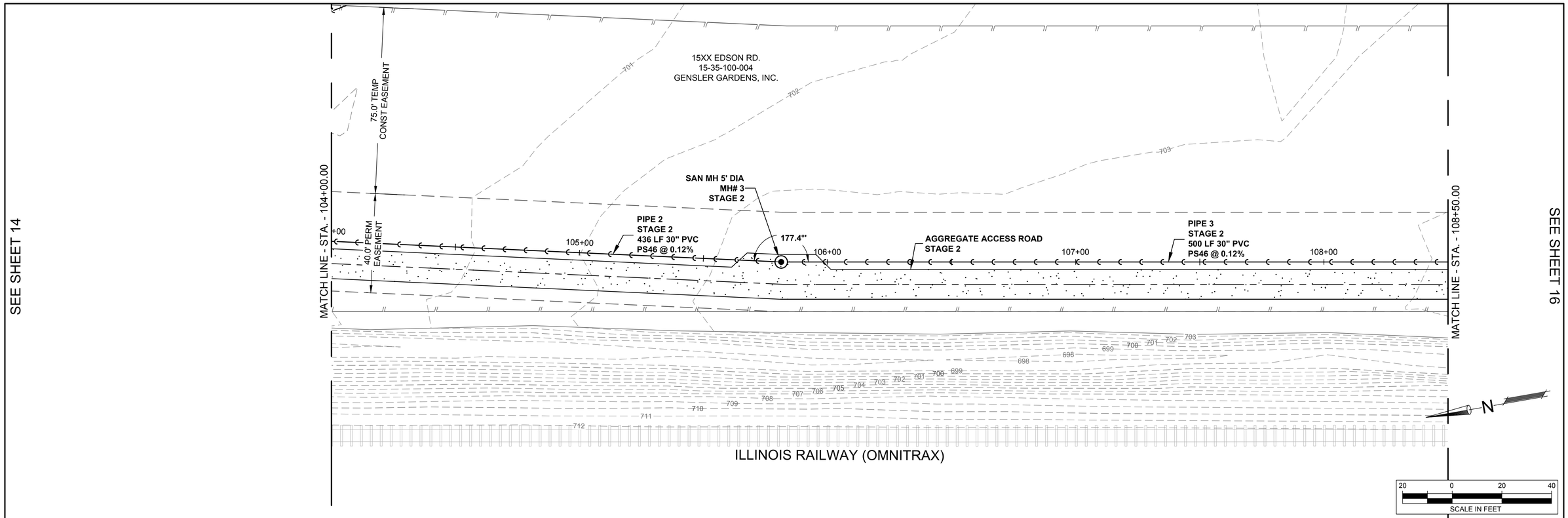
PLAN & PROFILE STA. 100+00.00 TO STA. 104+00.00

FOR BID

Sheet No. 14 OF 38

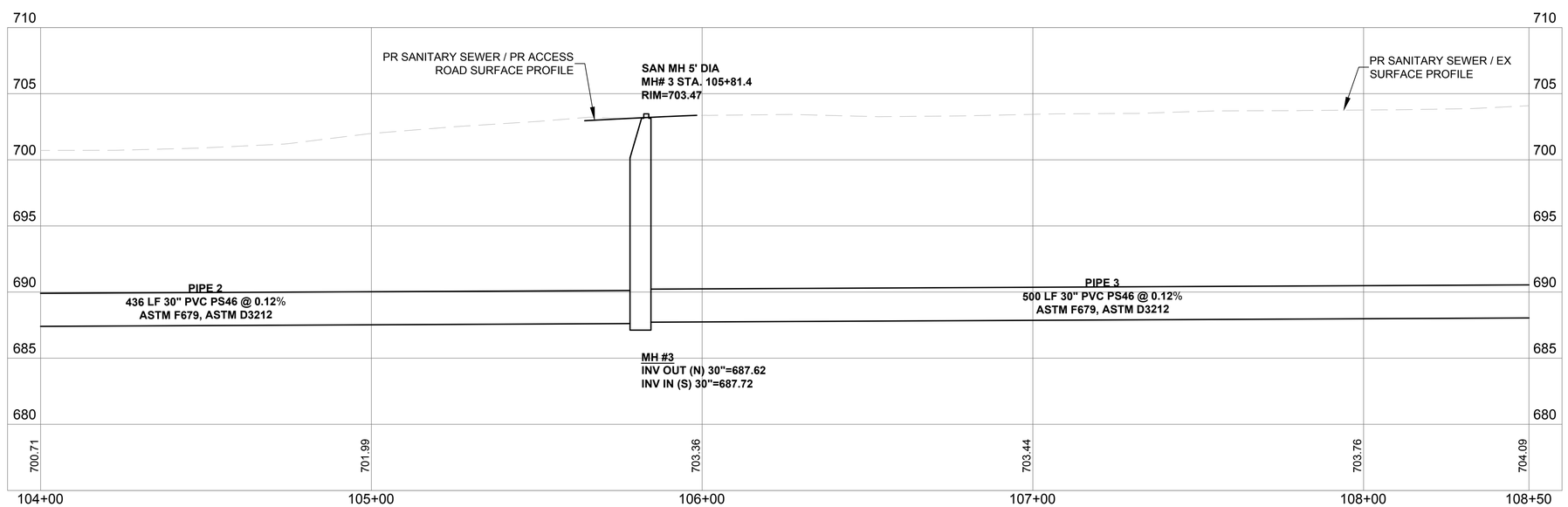
Date 8/19/2019

file: I:\District Projects\Rockford SE Trunk - S Branch 1965\01 Design\Drawings\Rockford SE Trunk - S Branch - Design.dwg



NOTES:

1. UNLESS OTHERWISE NOTED, ALL FIELD TILES ENCOUNTERED SHALL BE REMOVED AND REPLACED WITHIN THE EXTENTS OF THE TEMPORARY CONSTRUCTION EASEMENTS SHOWN. EXACT LINE AND GRADE TO BE DETERMINED DURING CONSTRUCTION. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR ***EXPLORATION TRENCH (SPECIAL)*** (AS DIRECTED) AND ***STORM SEWERS (SPECIAL) VARIOUS DIAMETER.***



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Rock River Water Reclamation District

ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

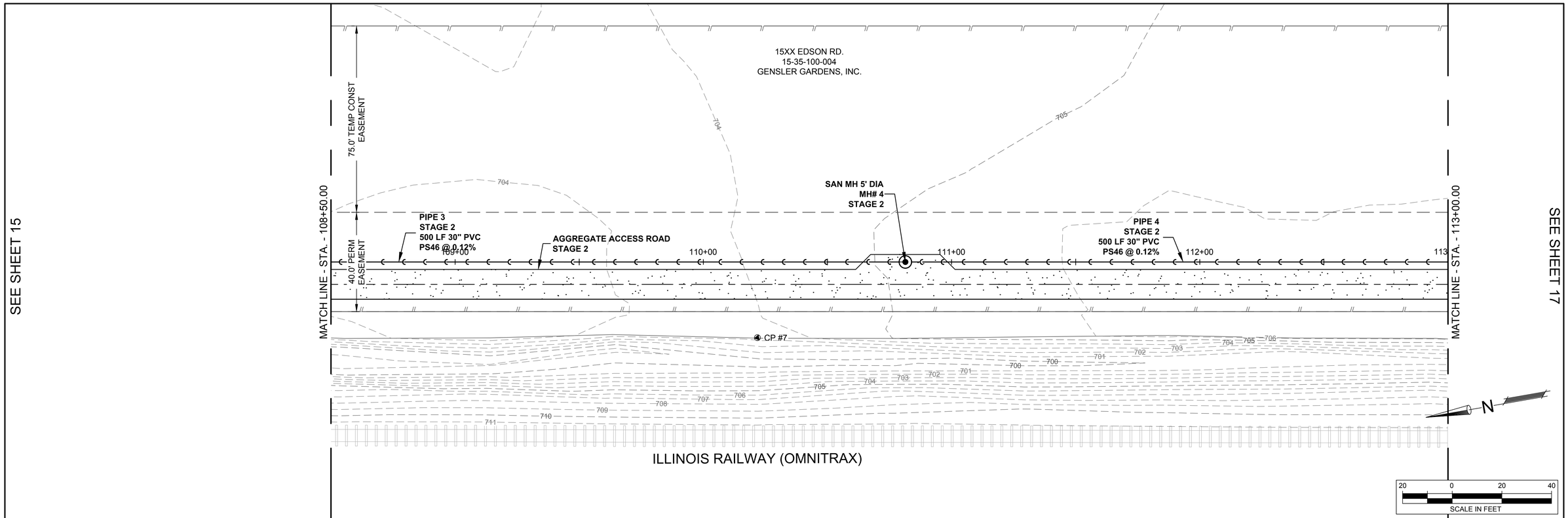
ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
CAPITAL IMPROVEMENT PROJECT #1965

PLAN & PROFILE STA. 104+00.00 TO STA. 108+50.00

FOR BID

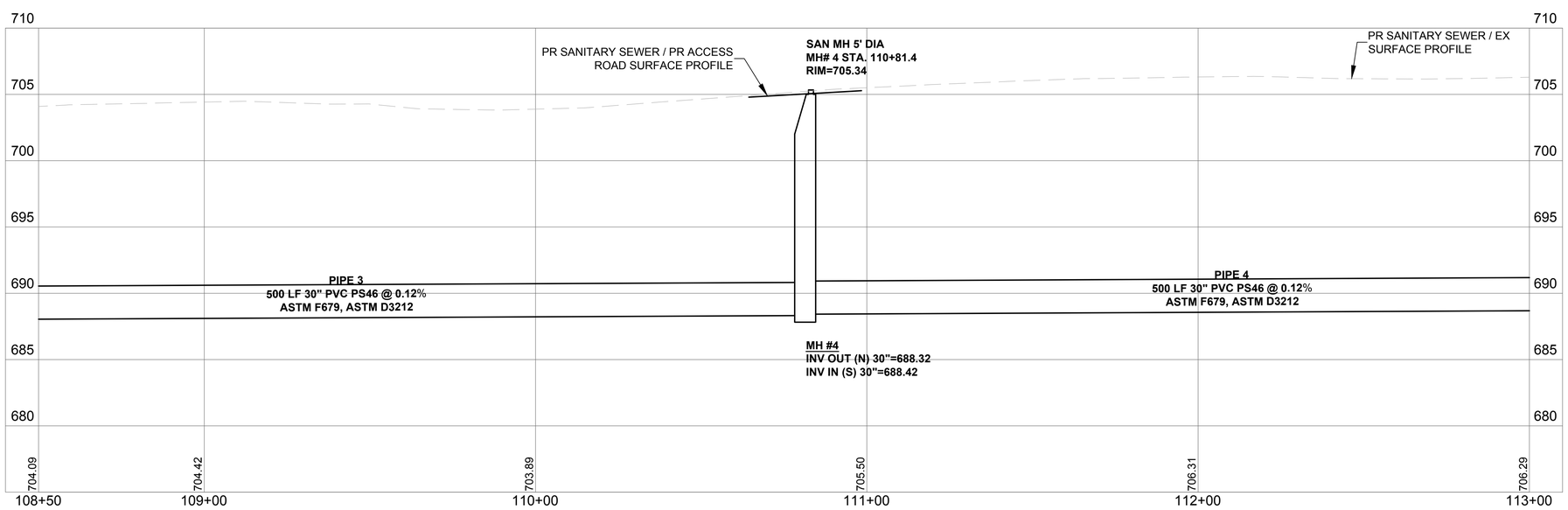
Sheet No. 15 OF 38

Date 8/19/2019



NOTES:

1. UNLESS OTHERWISE NOTED, ALL FIELD TILES ENCOUNTERED SHALL BE REMOVED AND REPLACED WITHIN THE EXTENTS OF THE TEMPORARY CONSTRUCTION EASEMENTS SHOWN. EXACT LINE AND GRADE TO BE DETERMINED DURING CONSTRUCTION. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR ***EXPLORATION TRENCH (SPECIAL)*** (AS DIRECTED) AND ***STORM SEWERS (SPECIAL) VARIOUS DIAMETER.***



Rock River Water Reclamation District

ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
CAPITAL IMPROVEMENT PROJECT #1965

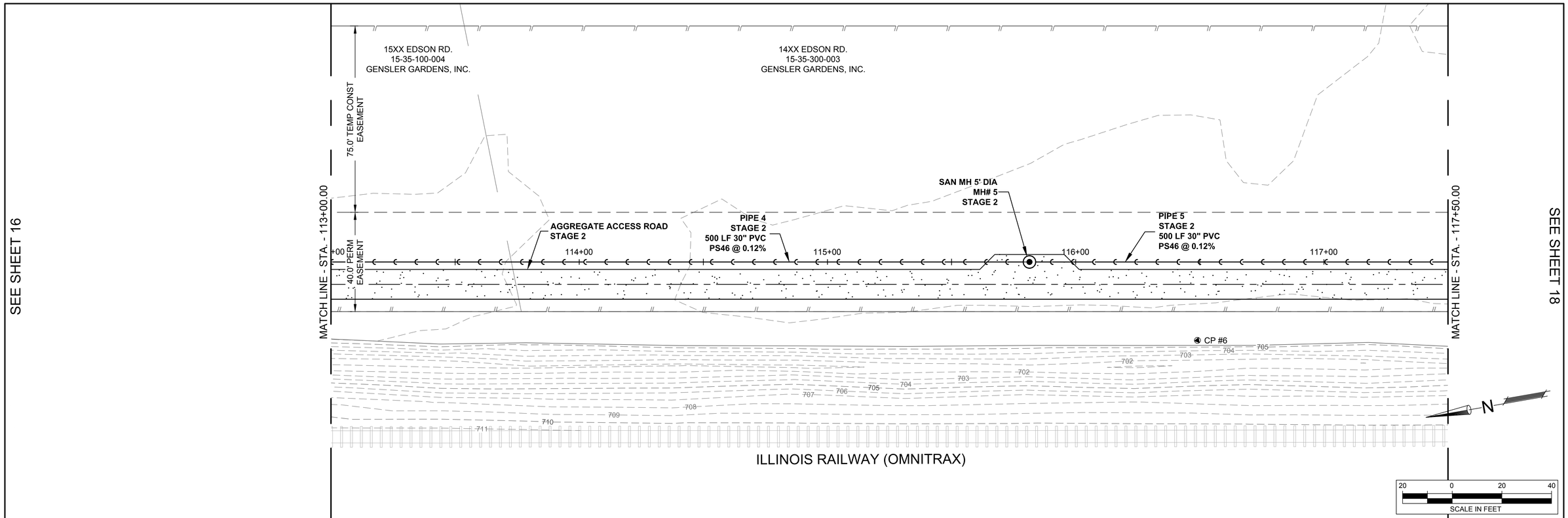
PLAN & PROFILE STA. 108+50.00 TO STA. 113+00.00

FOR BID

Sheet No. 16 OF 38

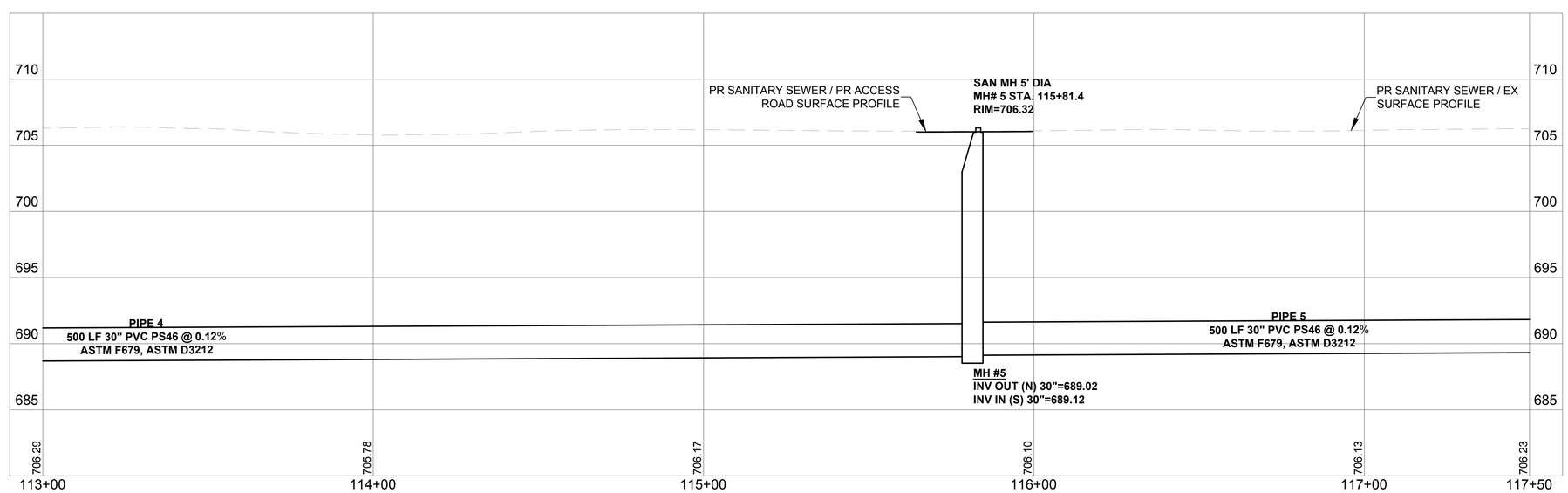
Date 8/19/2019

file: I:\District Projects\Rockford SE Trunk - S Branch 1965\01 Design\Drawings\Rockford SE Trunk - S Branch - Design.dwg



NOTES:

1. UNLESS OTHERWISE NOTED, ALL FIELD TILES ENCOUNTERED SHALL BE REMOVED AND REPLACED WITHIN THE EXTENTS OF THE TEMPORARY CONSTRUCTION EASEMENTS SHOWN. EXACT LINE AND GRADE TO BE DETERMINED DURING CONSTRUCTION. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR ***EXPLORATION TRENCH (SPECIAL)*** (AS DIRECTED) AND ***STORM SEWERS (SPECIAL) VARIOUS DIAMETER.***



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Rock River Water Reclamation District

ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

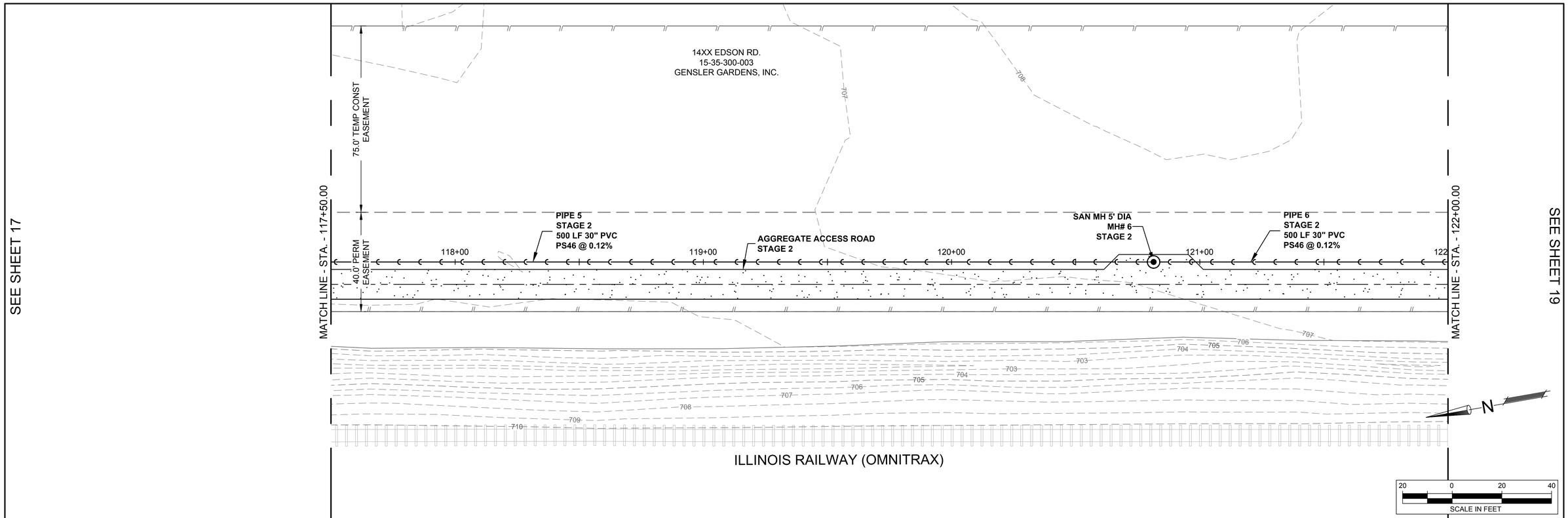
ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
CAPITAL IMPROVEMENT PROJECT #1965

PLAN & PROFILE STA. 113+00.00 TO STA. 117+50.00

FOR BID

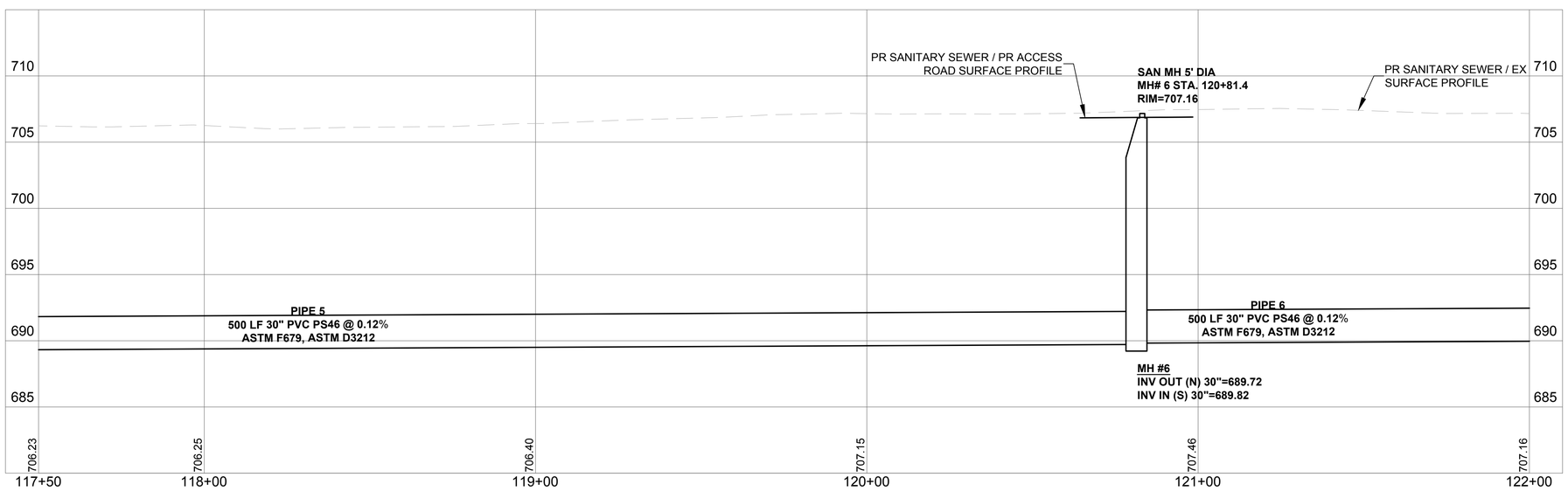
Sheet No. 17 OF 38

Date 8/19/2019



NOTES:

1. UNLESS OTHERWISE NOTED, ALL FIELD TILES ENCOUNTERED SHALL BE REMOVED AND REPLACED WITHIN THE EXTENTS OF THE TEMPORARY CONSTRUCTION EASEMENTS SHOWN. EXACT LINE AND GRADE TO BE DETERMINED DURING CONSTRUCTION. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR ***EXPLORATION TRENCH (SPECIAL)*** (AS DIRECTED) AND ***STORM SEWERS (SPECIAL) VARIOUS DIAMETER.***



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Rock River Water Reclamation District

ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

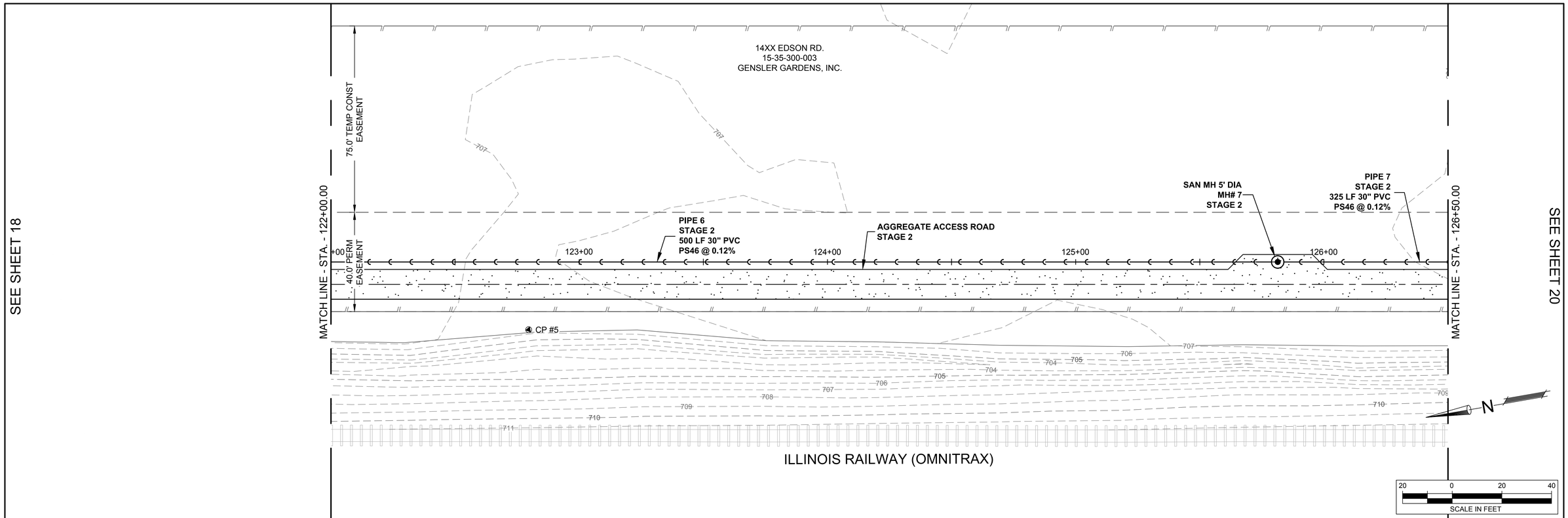
ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
CAPITAL IMPROVEMENT PROJECT #1965

PLAN & PROFILE STA. 117+50.00 TO STA. 122+00.00

FOR BID

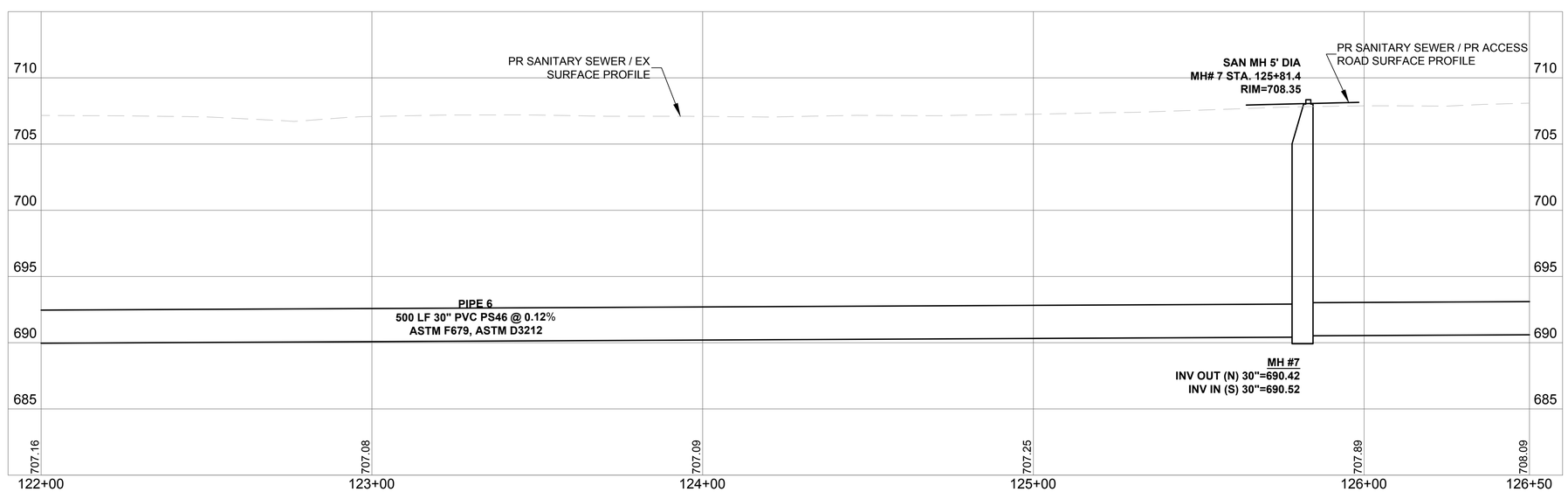
Sheet No.
18 OF 38

Date
8/19/2019



NOTES:

1. UNLESS OTHERWISE NOTED, ALL FIELD TILES ENCOUNTERED SHALL BE REMOVED AND REPLACED WITHIN THE EXTENTS OF THE TEMPORARY CONSTRUCTION EASEMENTS SHOWN. EXACT LINE AND GRADE TO BE DETERMINED DURING CONSTRUCTION. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR ***EXPLORATION TRENCH (SPECIAL)*** (AS DIRECTED) AND ***STORM SEWERS (SPECIAL) VARIOUS DIAMETER.***



Rock River Water Reclamation District

ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
CAPITAL IMPROVEMENT PROJECT #1965

PLAN & PROFILE STA. 122+00.00 TO STA. 126+50.00

FOR BID

Sheet No. 19 OF 38

Date 8/19/2019

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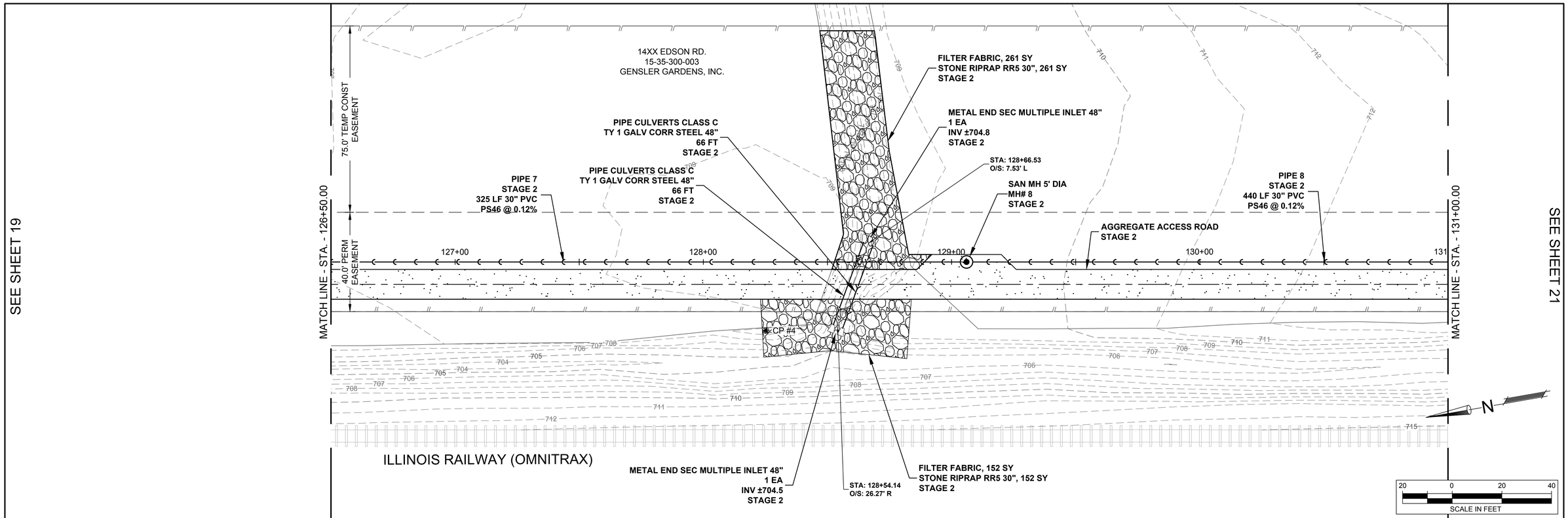
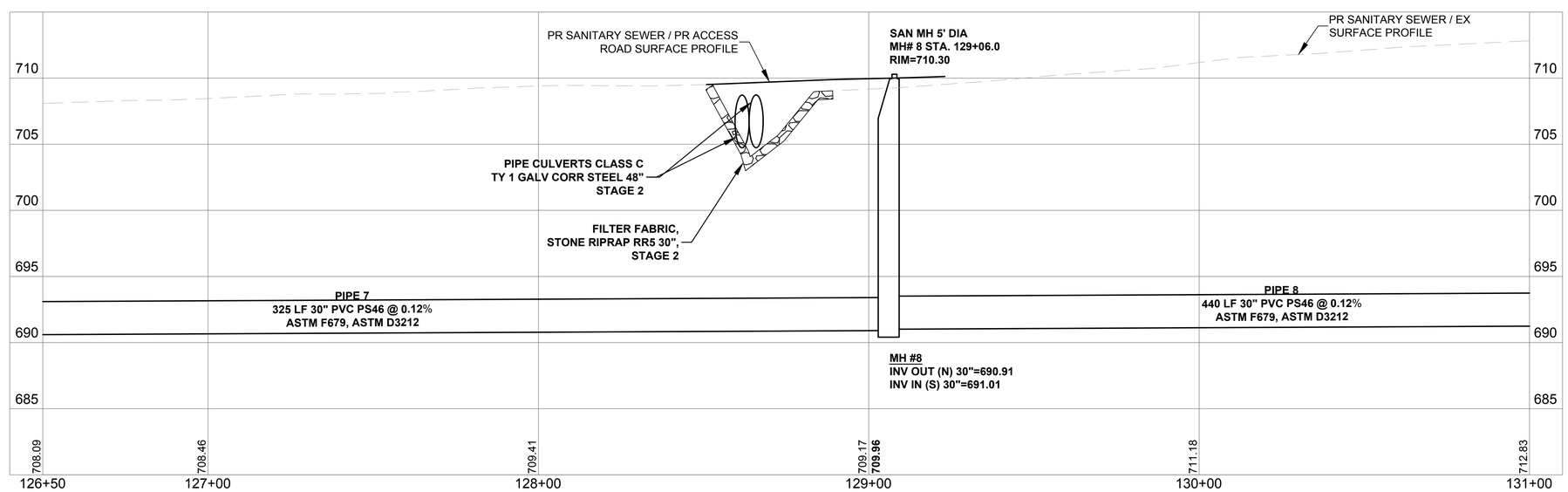


NOTES:

1. UNLESS OTHERWISE NOTED, ALL FIELD TILES ENCOUNTERED SHALL BE REMOVED AND REPLACED WITHIN THE EXTENTS OF THE TEMPORARY CONSTRUCTION EASEMENTS SHOWN. EXACT LINE AND GRADE TO BE DETERMINED DURING CONSTRUCTION. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR ***EXPLORATION TRENCH (SPECIAL)*** (AS DIRECTED) AND ***STORM SEWERS (SPECIAL) VARIOUS DIAMETER.***



Rock River Water Reclamation District

ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
CAPITAL IMPROVEMENT PROJECT #1965

PLAN & PROFILE STA. 126+50.00 TO STA. 131+00.00

FOR BID

Sheet No. 20 OF 38

Date 8/19/2019

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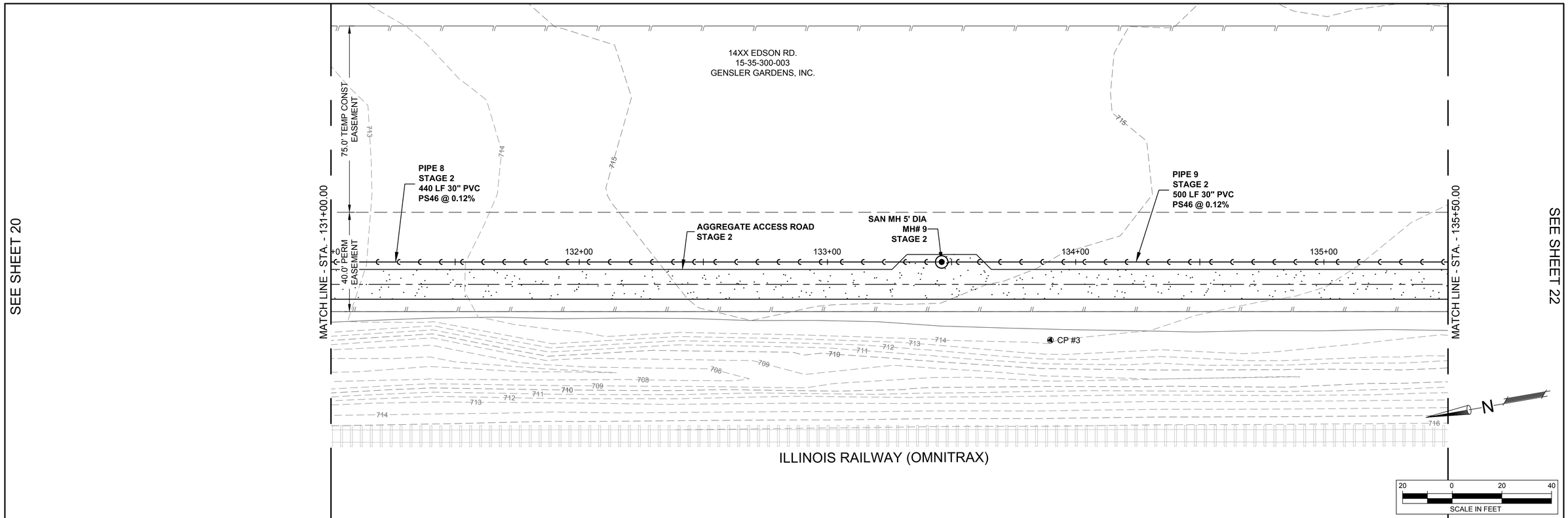
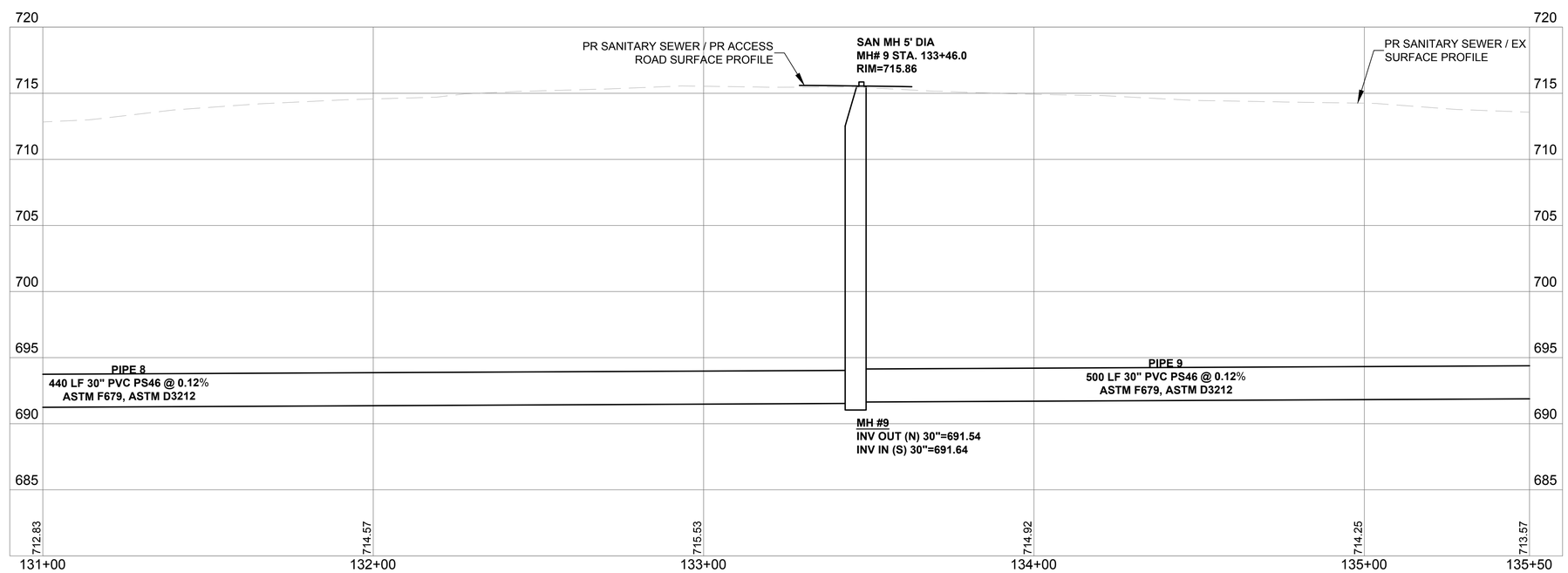


NOTES:

1. UNLESS OTHERWISE NOTED, ALL FIELD TILES ENCOUNTERED SHALL BE REMOVED AND REPLACED WITHIN THE EXTENTS OF THE TEMPORARY CONSTRUCTION EASEMENTS SHOWN. EXACT LINE AND GRADE TO BE DETERMINED DURING CONSTRUCTION. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR ***EXPLORATION TRENCH (SPECIAL)*** (AS DIRECTED) AND ***STORM SEWERS (SPECIAL) VARIOUS DIAMETER.***



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Rock River Water Reclamation District

ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

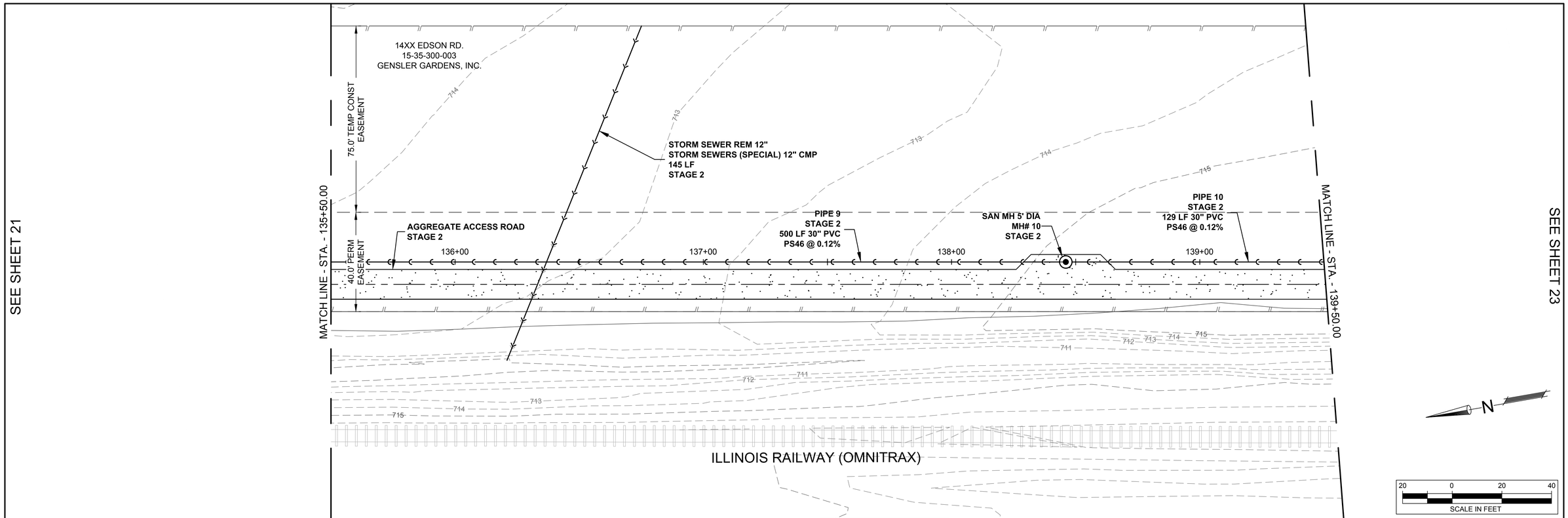
ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
CAPITAL IMPROVEMENT PROJECT #1965

PLAN & PROFILE STA. 131+00.00 TO STA. 135+50.00

FOR BID

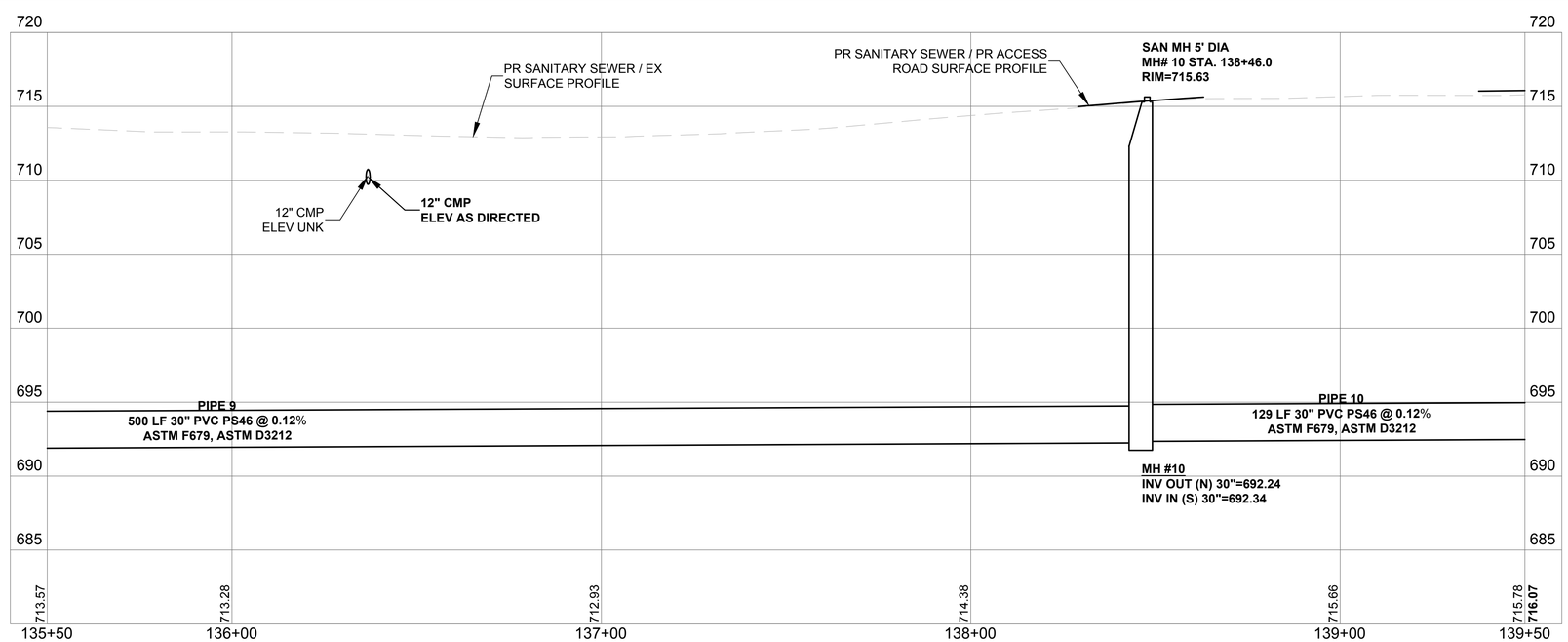
Sheet No. 21 OF 38

Date 8/19/2019



NOTES:

1. THE 12" CORRUGATED METAL PIPE FIELD TILE AT STA. 136+37 SHALL BE REMOVED AND REPLACED WITHIN THE EXTENTS OF THE TEMPORARY CONSTRUCTION EASEMENTS SHOWN. EXACT LINE AND GRADE TO BE DETERMINED DURING CONSTRUCTION. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR ***STORM SEWER REMOVAL 12"***, AND ***STORM SEWERS (SPECIAL) 12" CMP.***
2. ALL OTHER FIELD TILES ENCOUNTERED SHALL BE REMOVED AND REPLACED WITHIN THE EXTENTS OF THE TEMPORARY CONSTRUCTION EASEMENTS SHOWN. EXACT LINE AND GRADE TO BE DETERMINED DURING CONSTRUCTION. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR ***EXPLORATION TRENCH (SPECIAL)*** (AS DIRECTED) AND ***STORM SEWERS (SPECIAL) VARIOUS DIAMETER.***



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Rock River Water Reclamation District

ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

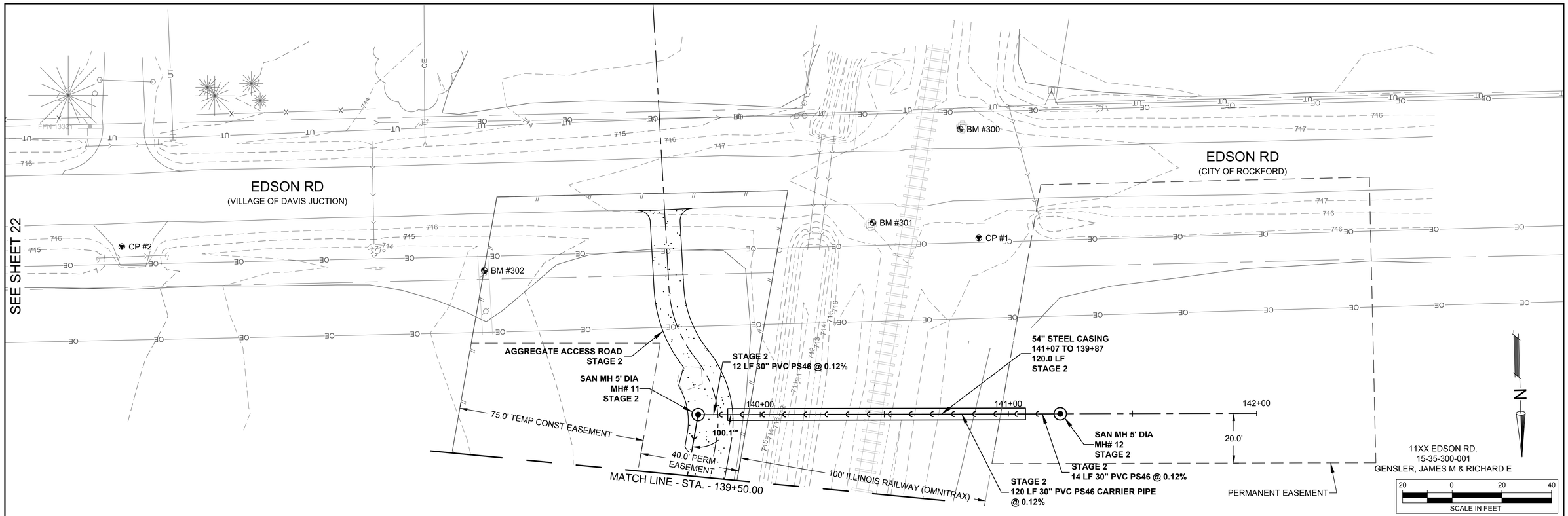
ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
CAPITAL IMPROVEMENT PROJECT #1965

PLAN & PROFILE STA. 135+50.00 TO STA. 139+50.00

FOR BID

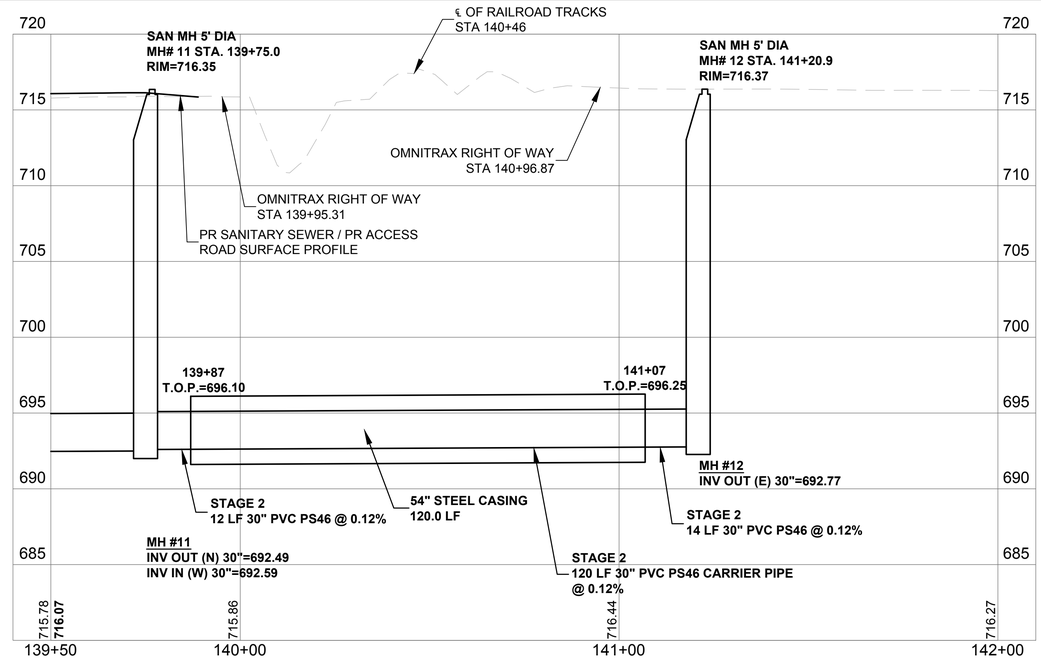
Sheet No.
22 OF 38

Date
8/19/2019



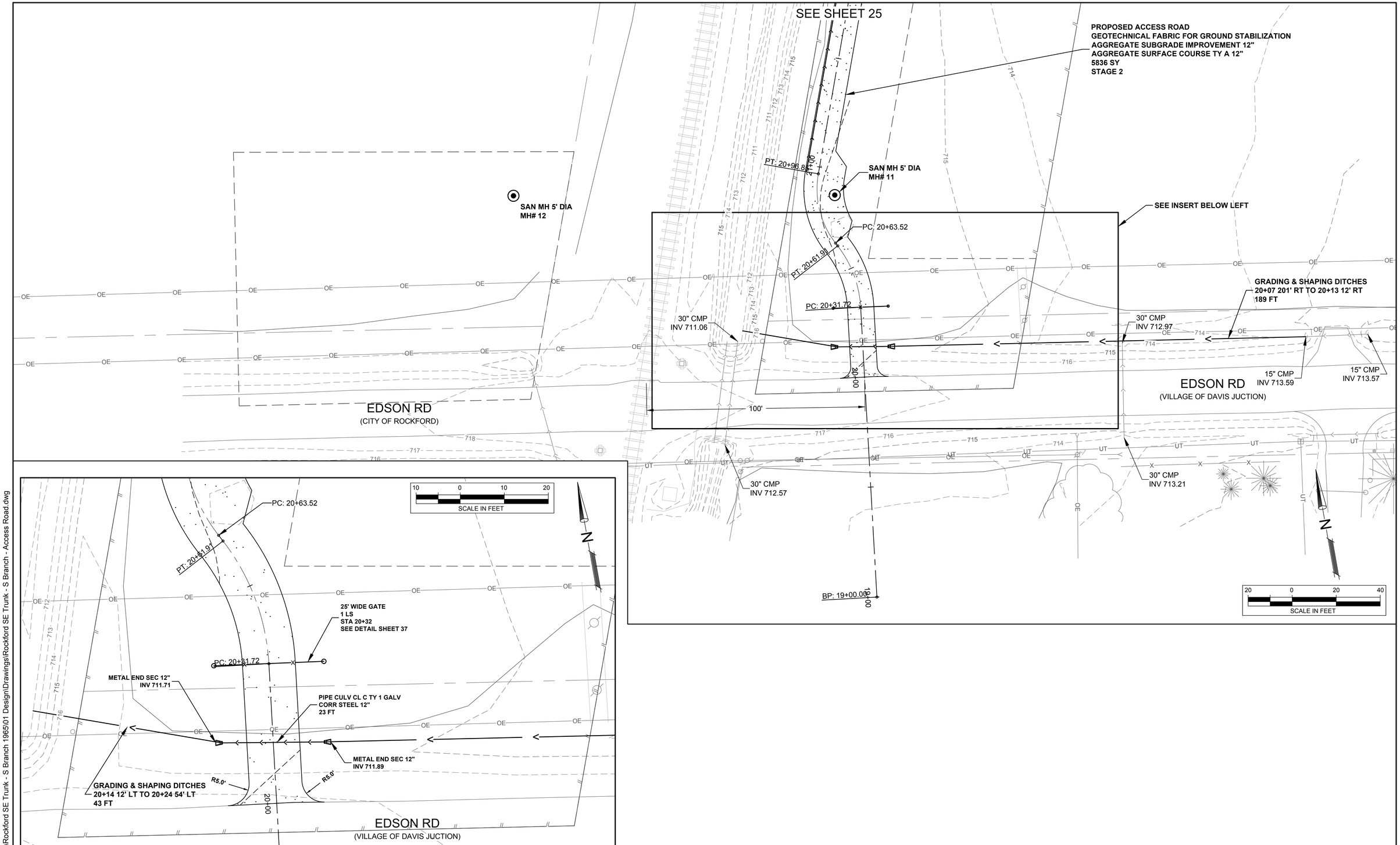
NOTES:

1. UNLESS OTHERWISE NOTED, ALL FIELD TILES ENCOUNTERED SHALL BE REMOVED AND REPLACED WITHIN THE EXTENTS OF THE TEMPORARY CONSTRUCTION EASEMENTS SHOWN. EXACT LINE AND GRADE TO BE DETERMINED DURING CONSTRUCTION. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR ***EXPLORATION TRENCH (SPECIAL)*** (AS DIRECTED) AND ***STORM SEWERS (SPECIAL) VARIOUS DIAMETER.***



ROCK RIVER WATER RECLAMATION DISTRICT 3501 KISHWAUKEE STREET ROCKFORD, ILLINOIS 61109 (815) 387-7660	No. / DATE / REVISION / INT.	ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH CAPITAL IMPROVEMENT PROJECT #1965	PLAN & PROFILE STA. 139+50.00 TO STA. 143+00.00	Sheet No. 23 OF 38	
			FOR BID	Date 8/19/2019	

file: I:\District Projects\Rockford SE Trunk - S Branch 1965\01 Design\Drawings\Rockford SE Trunk - S Branch - Design.dwg



ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
CAPITAL IMPROVEMENT PROJECT #1965

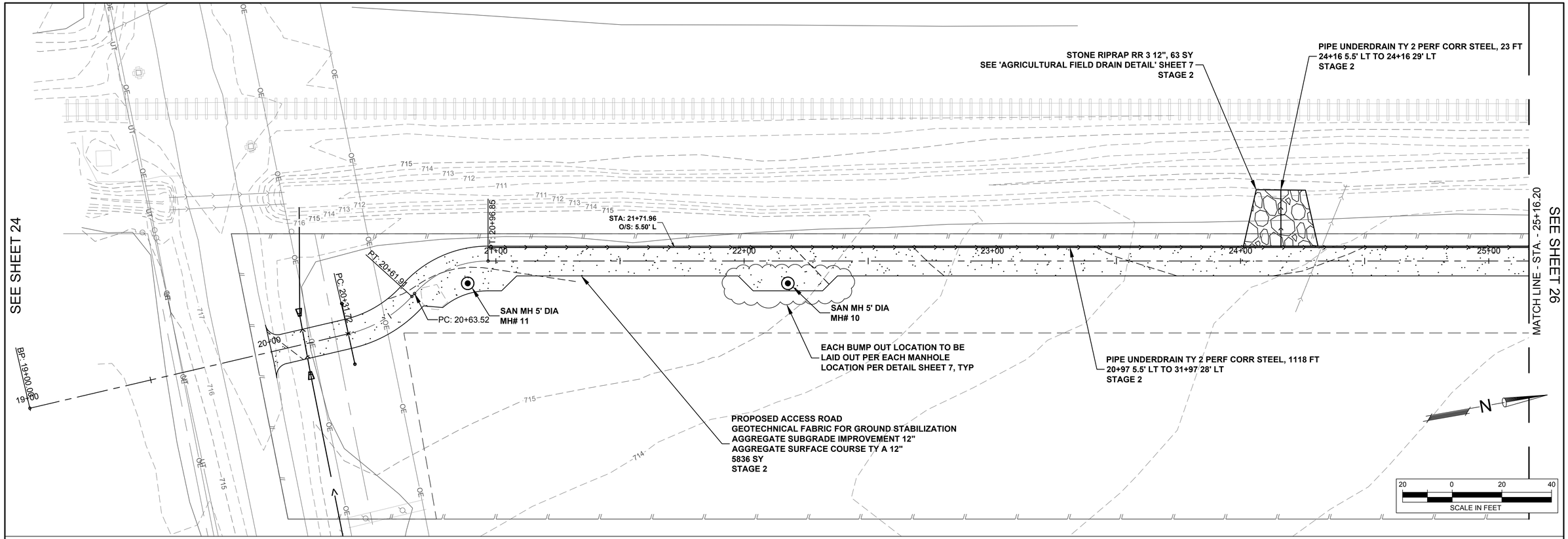
ACCESS ROAD & EDSON ROAD PLAN VIEWS

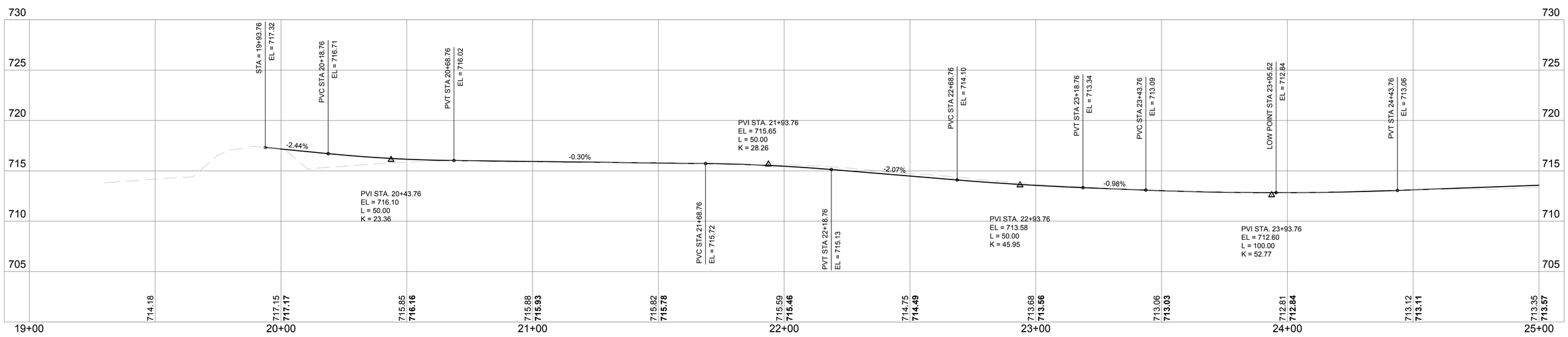
FOR BID

Sheet No.
24 OF 38

Date
8/19/2019

file: I:\District Projects\Rockford SE Trunk - S Branch 1965\01 Design\Drawings\Rockford SE Trunk - S Branch - Access Road.dwg





Rock River Water Reclamation District

ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH

1965

ACCESS ROAD STA 20+00.00 - STA 25+00.00

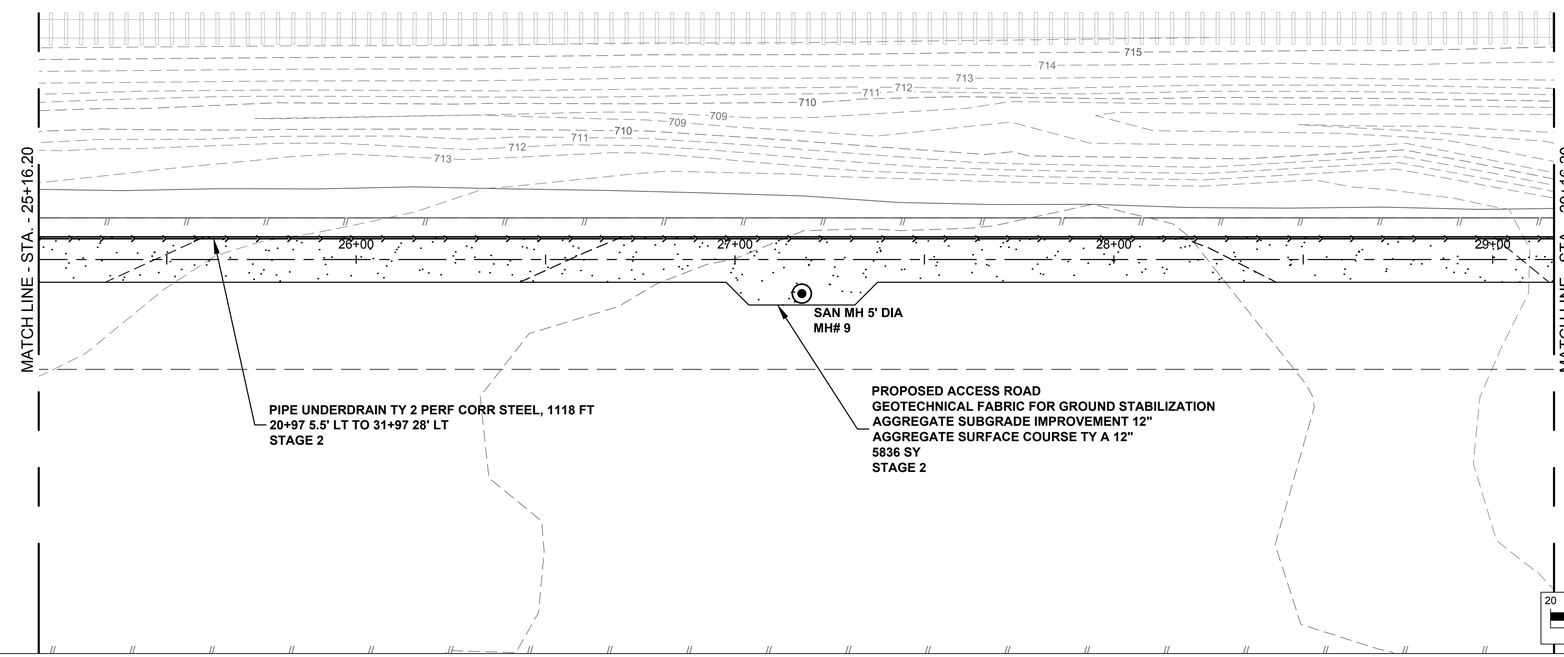
FOR BID

Sheet No.
25 OF 38

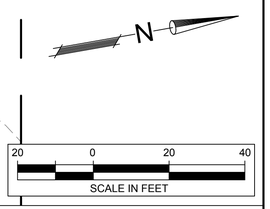
Date
8/19/2019

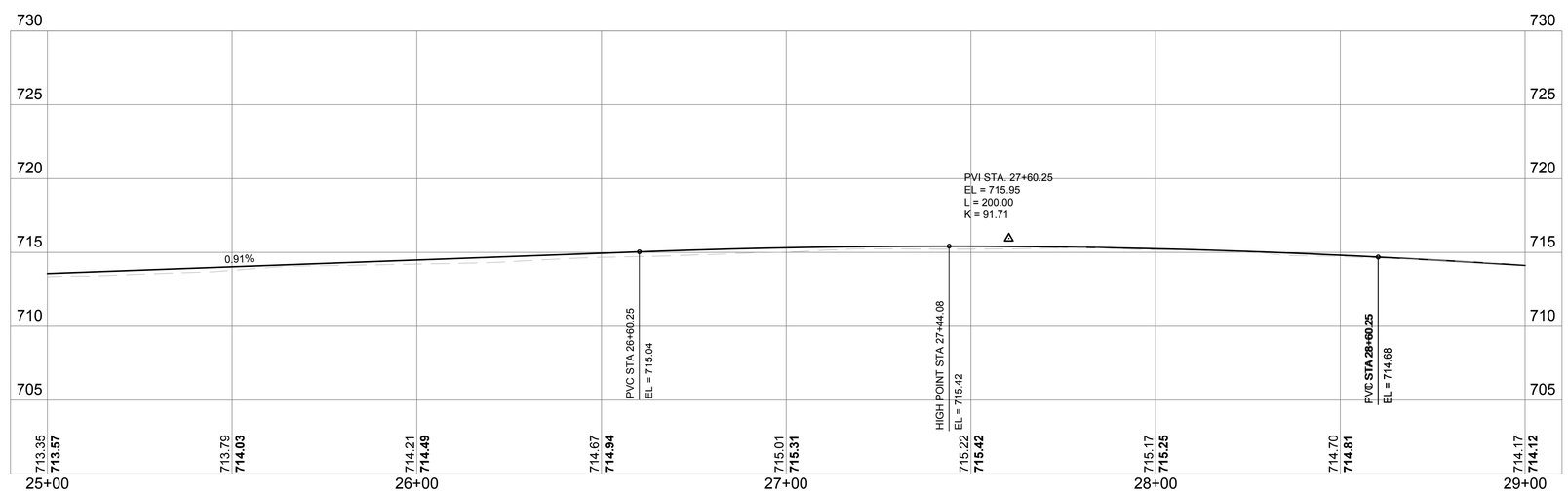
file: I:\District Projects\Rockford SE Trunk - S Branch 1965\01 Design\Drawings\Rockford SE Trunk - S Branch - Access Road.dwg

SEE SHEET 25



SEE SHEET 27





Rock River Water Reclamation District

ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
1965

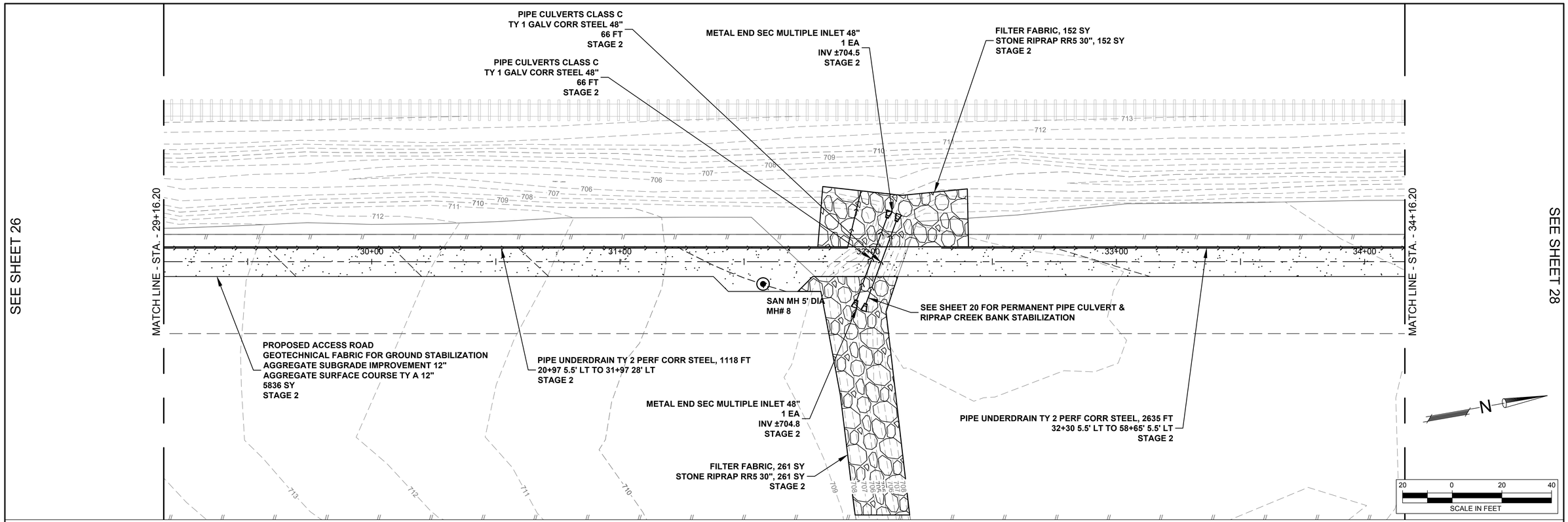
ACCESS ROAD STA 25+00.00 - STA 29+00.00

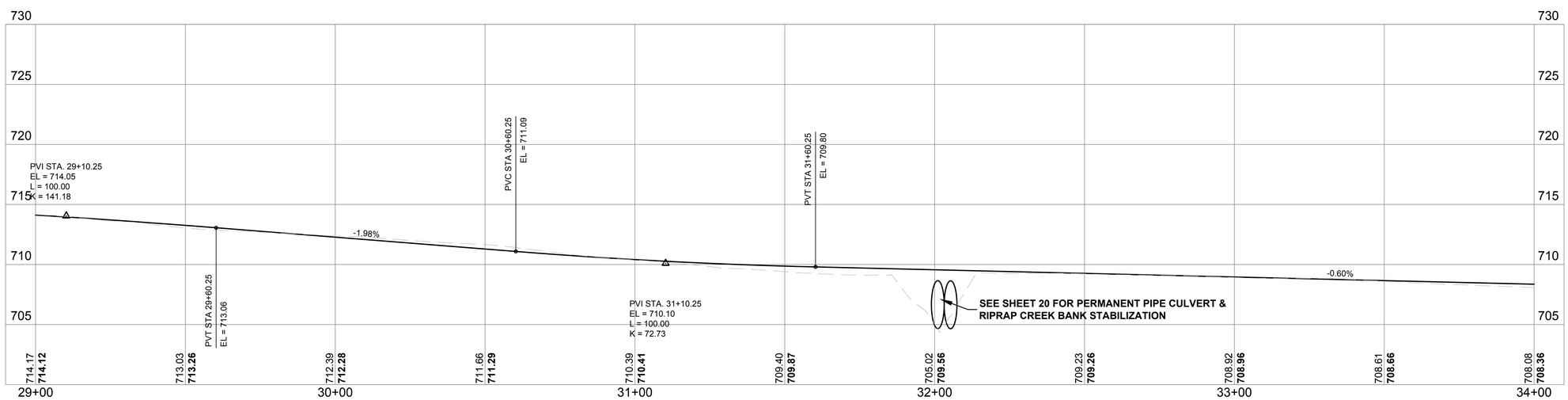
FOR BID

Sheet No.
26 OF 38

Date
8/19/2019

file: I:\District Projects\Rockford SE Trunk - S Branch 1965\01 Design\Drawings\Rockford SE Trunk - S Branch - Access Road.dwg





Rock River Water Reclamation District

ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
1965

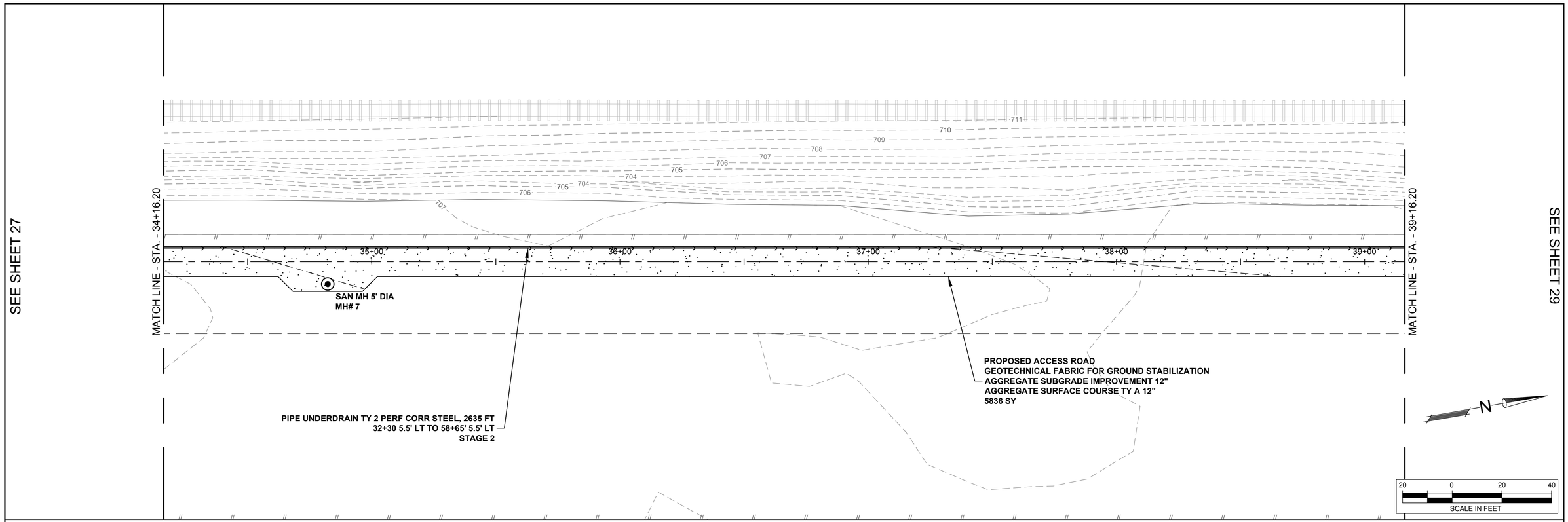
ACCESS ROAD STA 29+00.00 - STA 34+00.00

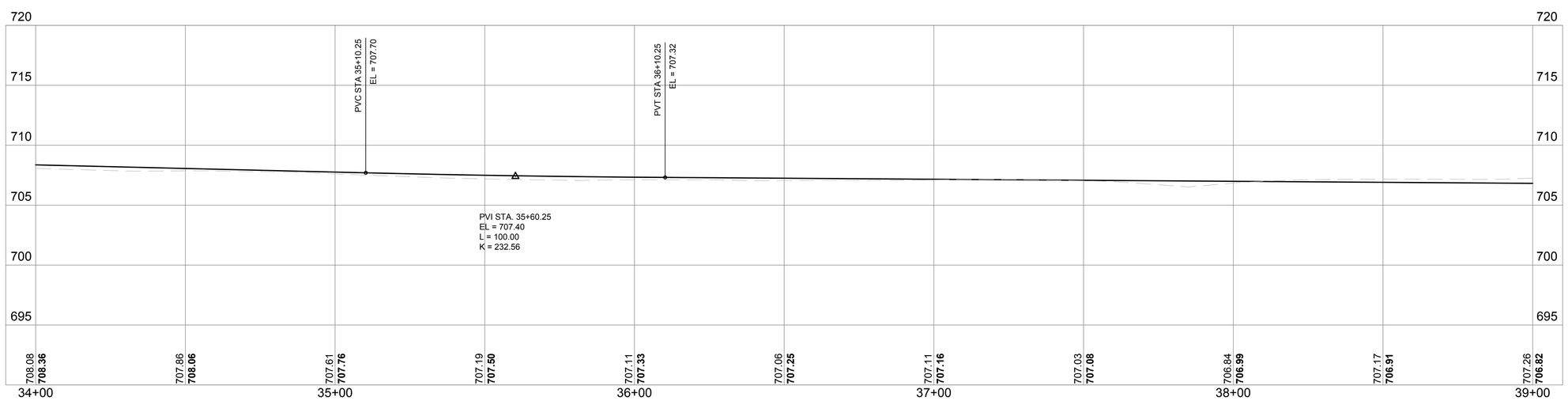
FOR BID

Sheet No.
27 OF 38

Date
8/19/2019

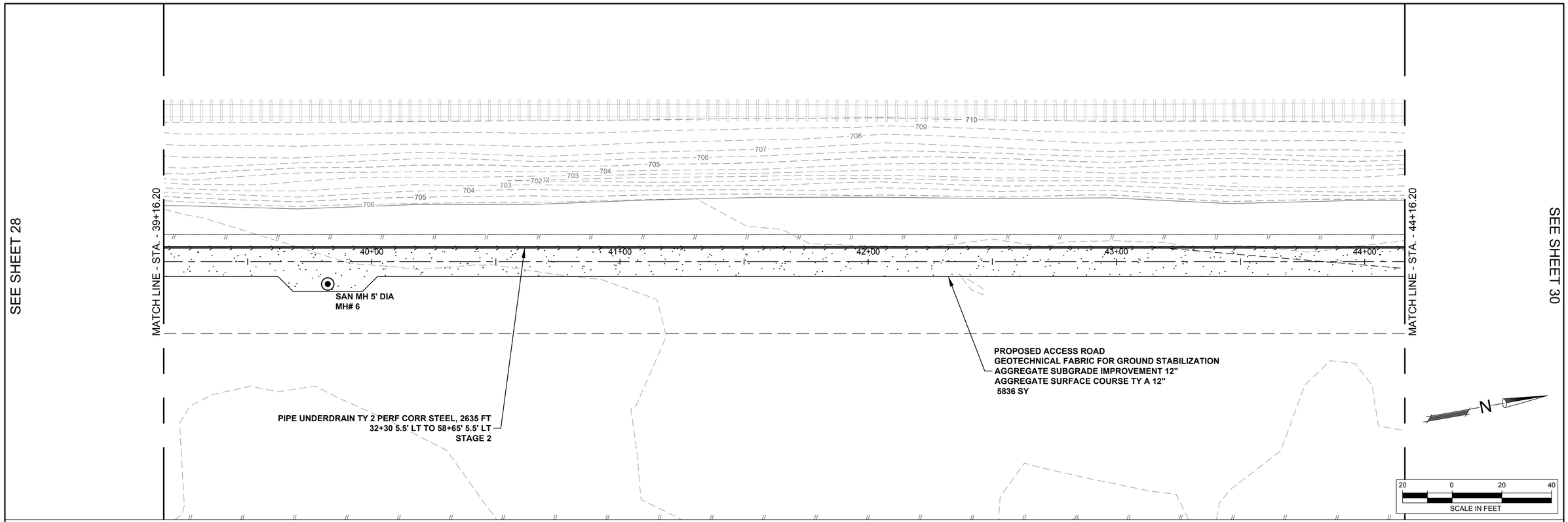
file: I:\District Projects\Rockford SE Trunk - S Branch 1965\01 Design\Drawings\Rockford SE Trunk - S Branch - Access Road.dwg

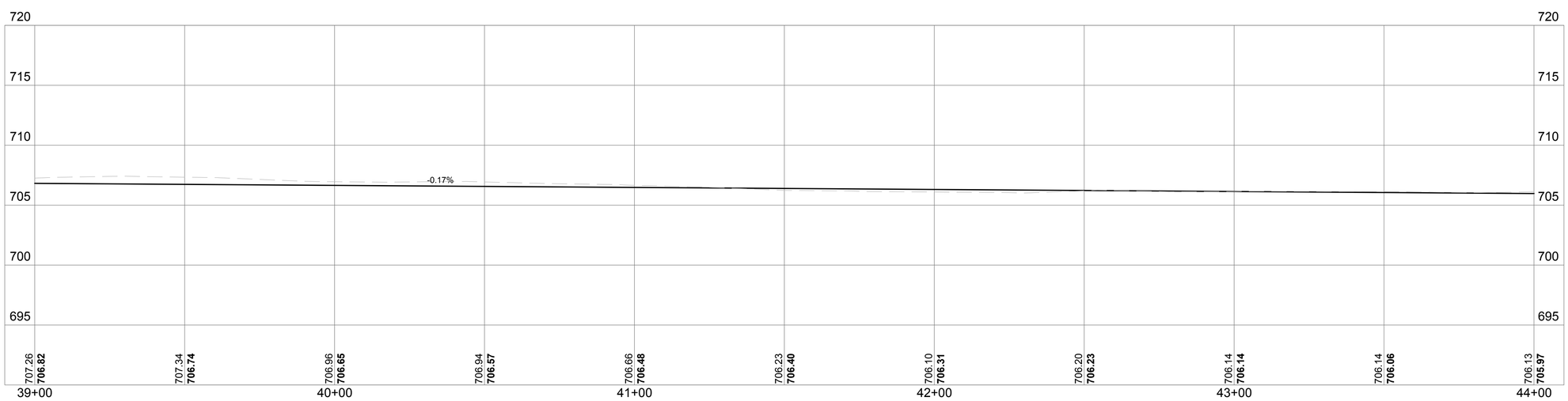




Rock River Water Reclamation District	ROCK RIVER WATER RECLAMATION DISTRICT 3501 KISHWAUKEE STREET ROCKFORD, ILLINOIS 61109 (815) 387-7660	No. / DATE / REVISION / INT.	ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH 1965	ACCESS ROAD STA 34+00.00 - STA 39+00.00	Sheet No. 28 OF 38	
				FOR BID	Date 8/19/2019	

file: I:\District Projects\Rockford SE Trunk - S Branch 1965\01 Design\Drawings\Rockford SE Trunk - S Branch - Access Road.dwg





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Rock River Water Reclamation District

ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

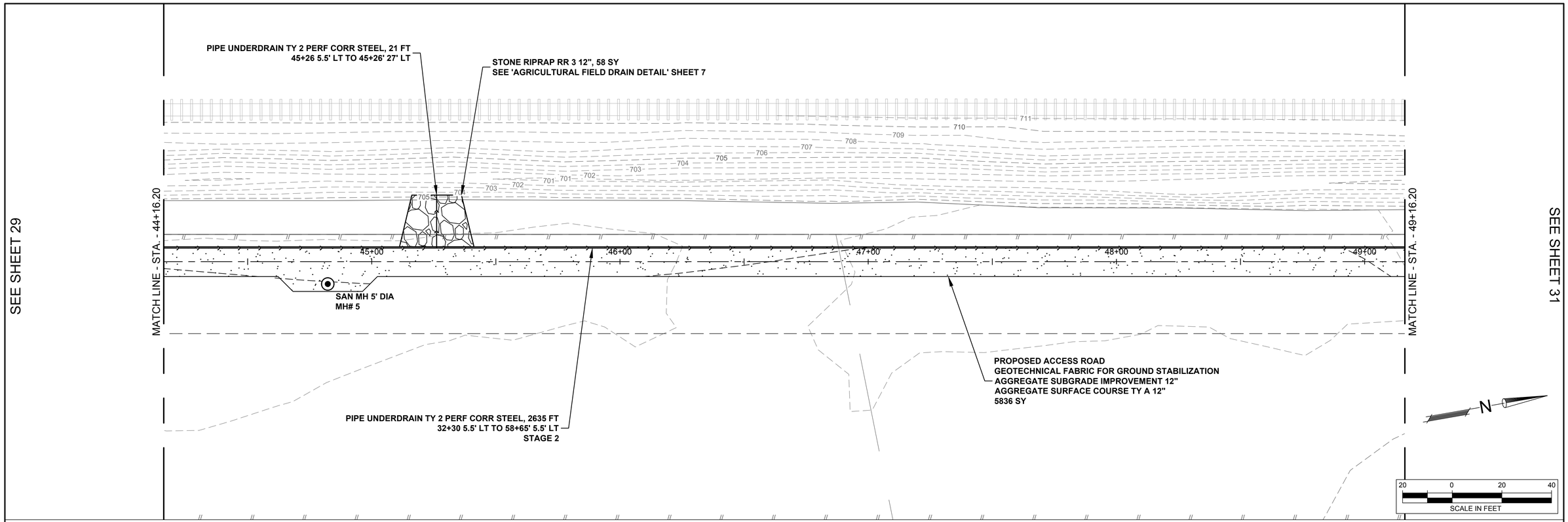
ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
1965

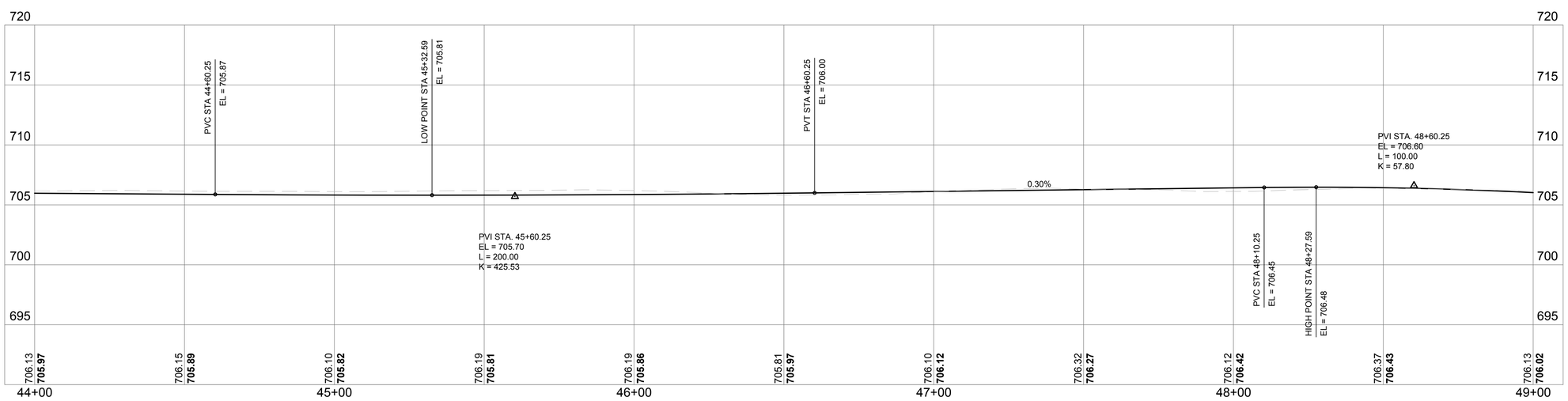
ACCESS ROAD STA 39+00.00 - STA 44+00.00

FOR BID

Sheet No. 29 OF 38

Date 8/19/2019





Rock River Water Reclamation District

ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
1965

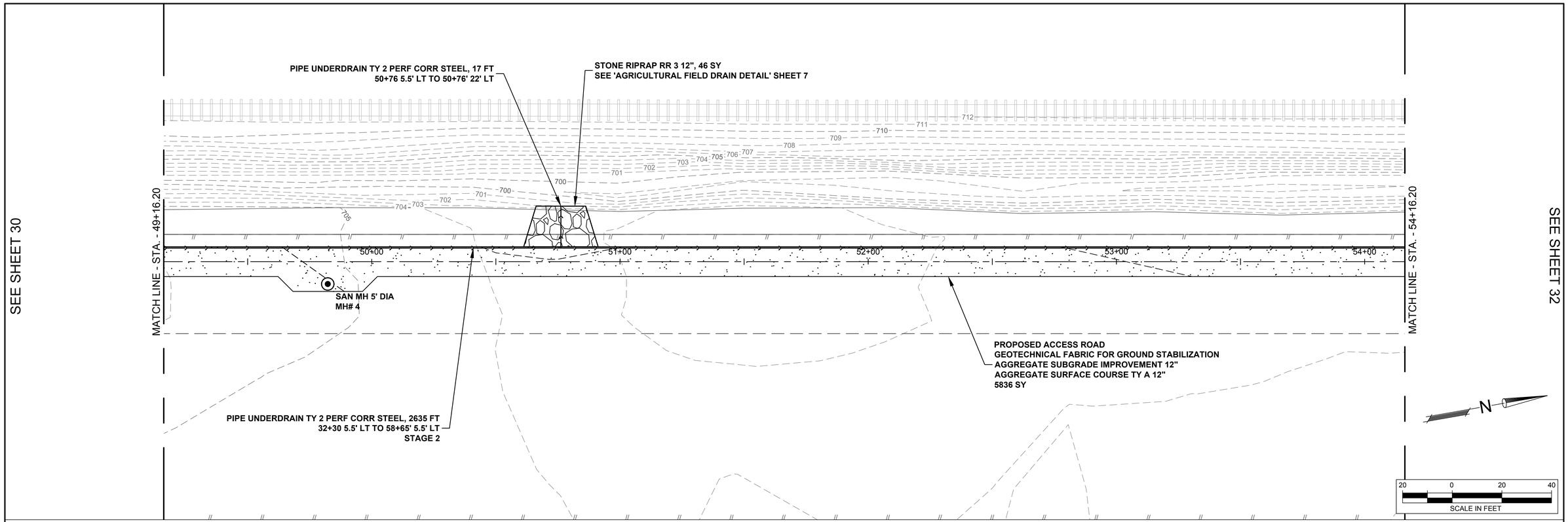
ACCESS ROAD STA 44+00.00 - STA 49+00.00

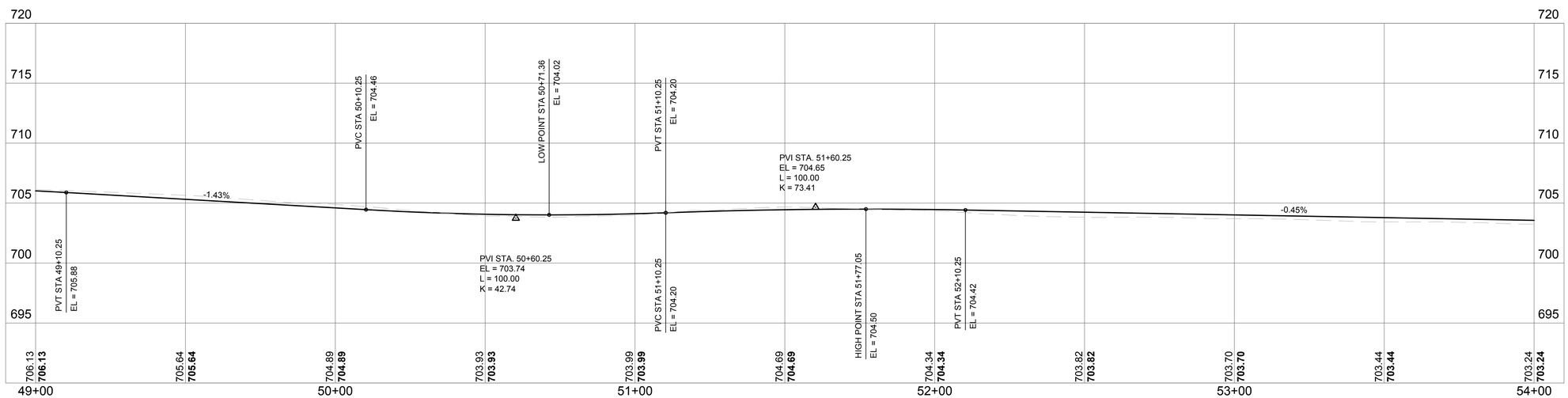
FOR BID

Sheet No. 30 OF 38

Date 8/19/2019

file: I:\District Projects\Rockford SE Trunk - S Branch 1965\01 Design\Drawings\Rockford SE Trunk - S Branch - Access Road.dwg





Rock River Water Reclamation District

ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
1965

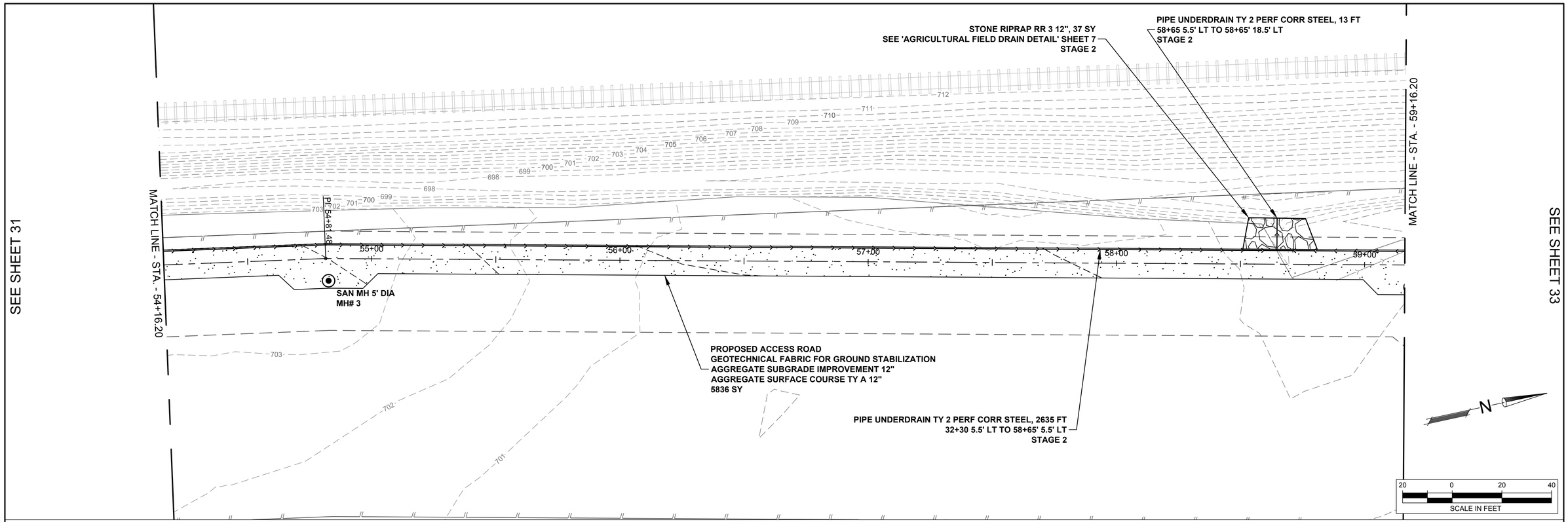
ACCESS ROAD STA 49+00.00 - STA 54+00.00

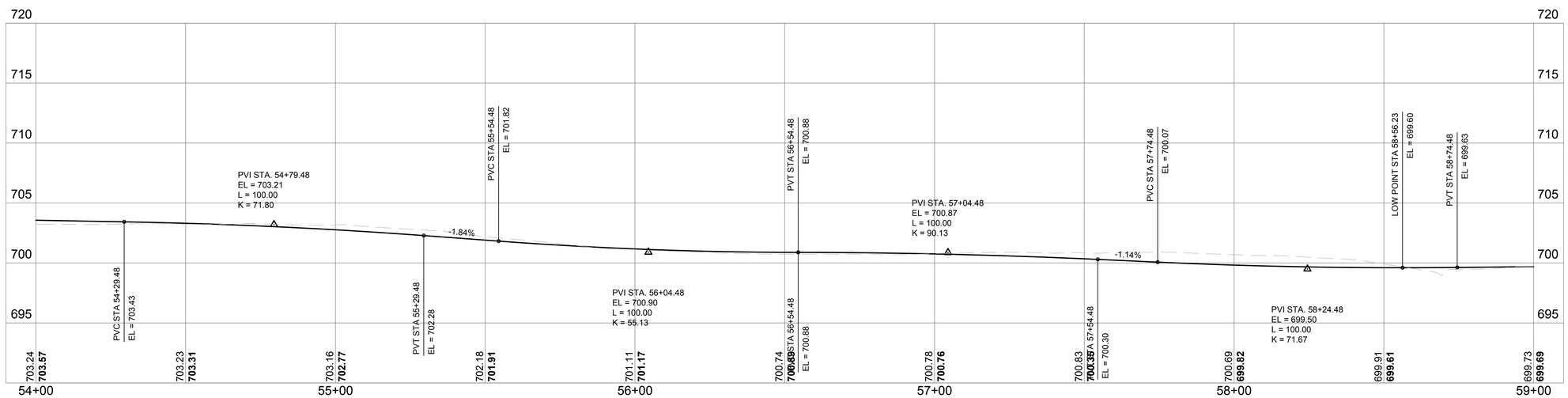
FOR BID

Sheet No.
31 OF 38

Date
8/19/2019

file: I:\District Projects\Rockford SE Trunk - S Branch 1965\01 Design\Drawings\Rockford SE Trunk - S Branch - Access Road.dwg

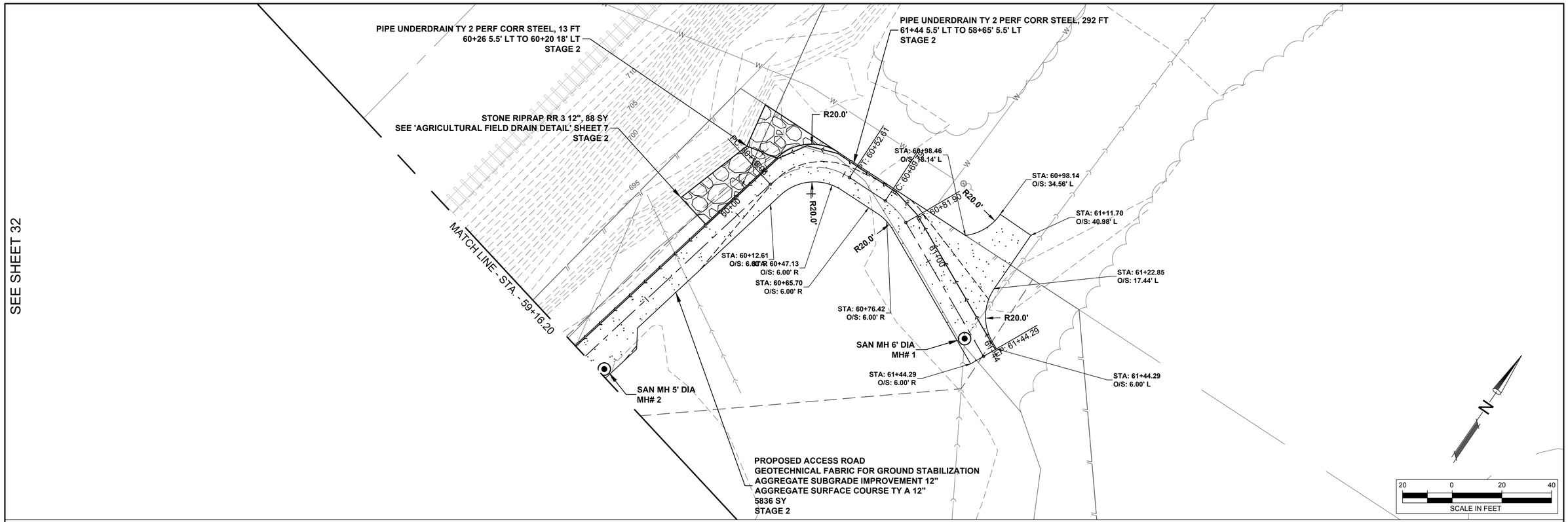


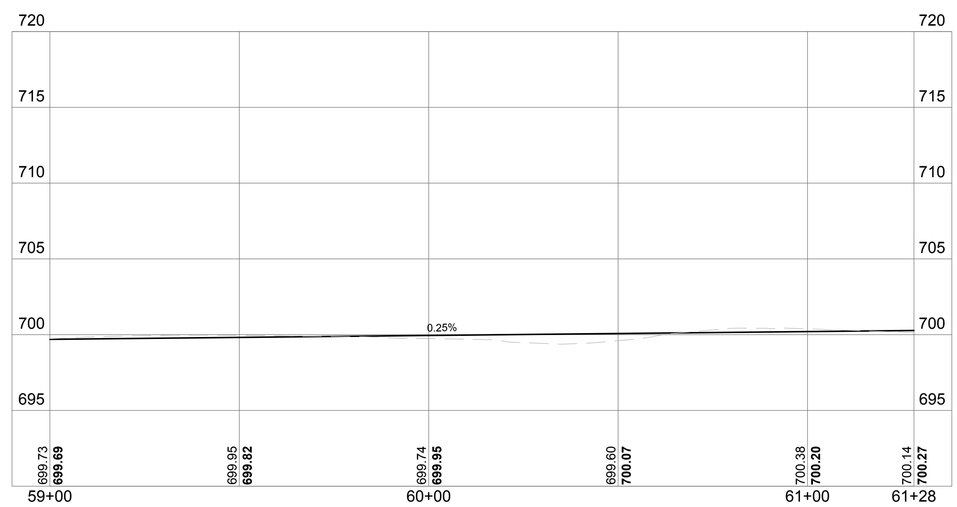


Rock River Water Reclamation District ROCK RIVER WATER RECLAMATION DISTRICT 3501 KISHWAUKEE STREET ROCKFORD, ILLINOIS 61109 (815) 387-7660	No. / DATE / REVISION / INT.	ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH 1965	ACCESS ROAD STA 54+00.00 - STA 59+00.00	Sheet No. 32 OF 38	
			FOR BID	Date 8/19/2019	

file: I:\District Projects\Rockford SE Trunk - S Branch 1965\01 Design\Drawings\Rockford SE Trunk - S Branch - Access Road.dwg

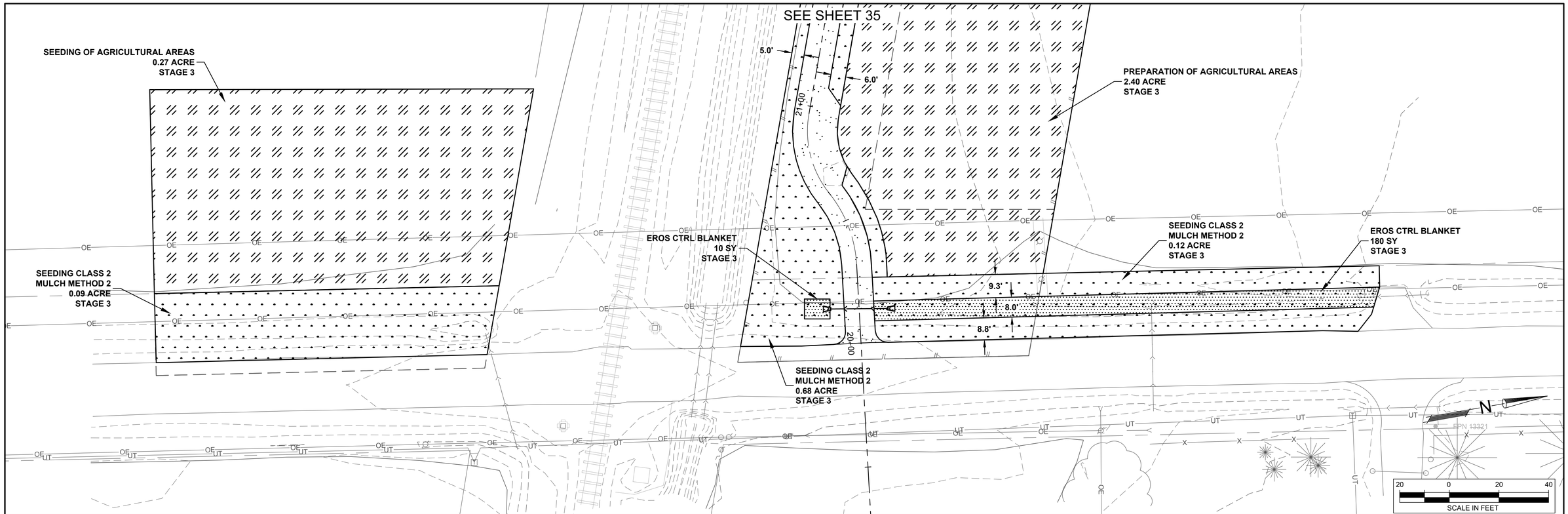
SEE SHEET 32





ROCK RIVER WATER RECLAMATION DISTRICT 3501 KISHWAUKEE STREET ROCKFORD, ILLINOIS 61109 (815) 387-7660	No.	DATE	REVISION	INT.	ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH 1965	ACCESS ROAD STA 59+00.00 - STA 61+28.09	Sheet No. 33 OF 38
						FOR BID	Date 8/19/2019

file: I:\District Projects\Rockford SE Trunk - S Branch 1965\01 Design\Drawings\Rockford SE Trunk - S Branch - Access Road.dwg



LEGEND

SEEDING AREA, **SEEDING CLASS 2**

SEEDING AREA, **SEEDING OF AGRICULTURAL AREAS**

EROSION CONTROL BLANKET

file: I:\District Projects\Rockford SE Trunk - S Branch 1965\01 Design\Drawings\Rockford SE Trunk - S Branch - Permanent Seeding.dwg

Rock River Water Reclamation District

ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

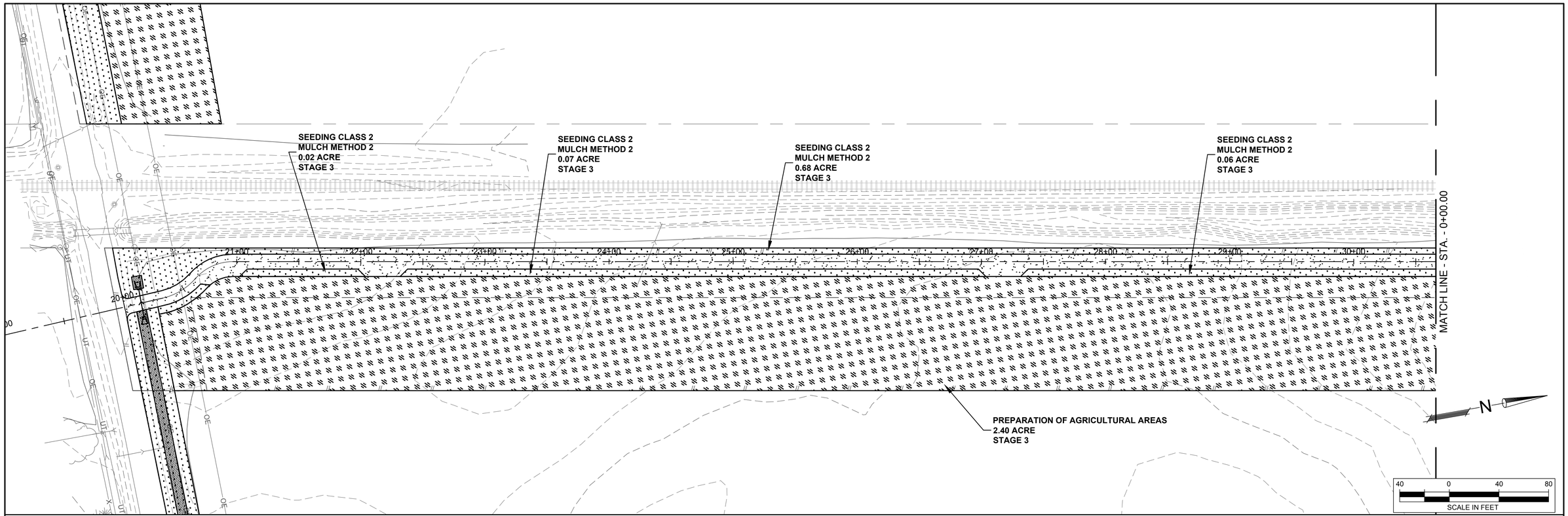
ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
CAPITAL IMPROVEMENT PROJECT #1965

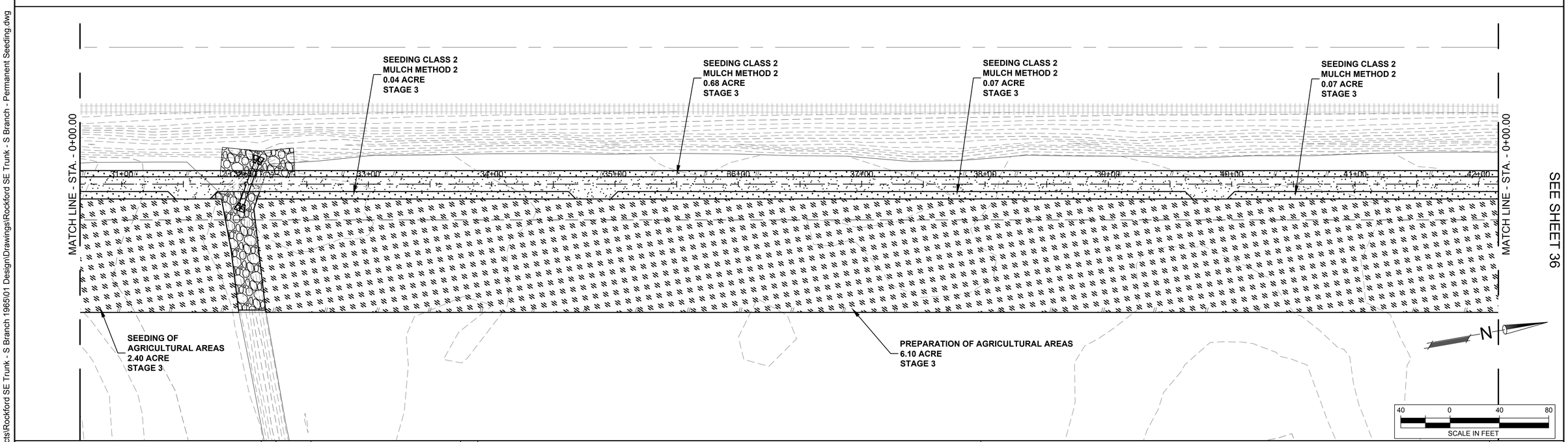
PERMANENT SEEDING PLAN 1

FOR BID

Sheet No.
34 OF 38

Date
8/19/2019





Rock River Water Reclamation District

ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
CAPITAL IMPROVEMENT PROJECT #1965

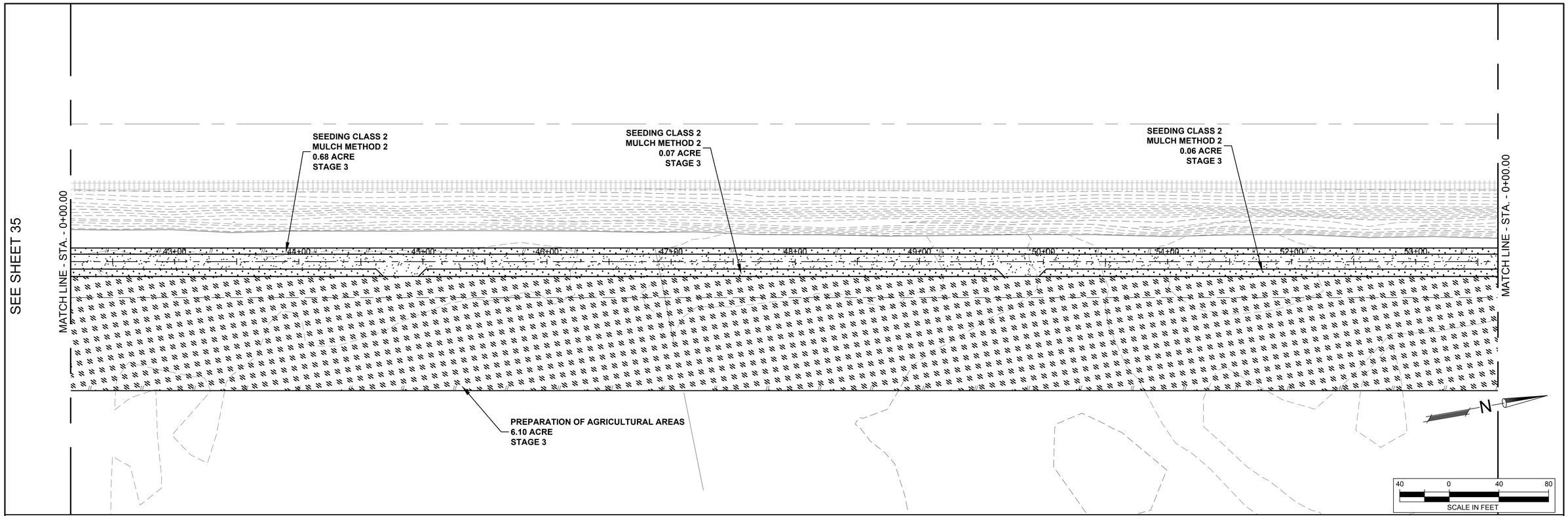
PERMANENT SEEDING PLAN 2

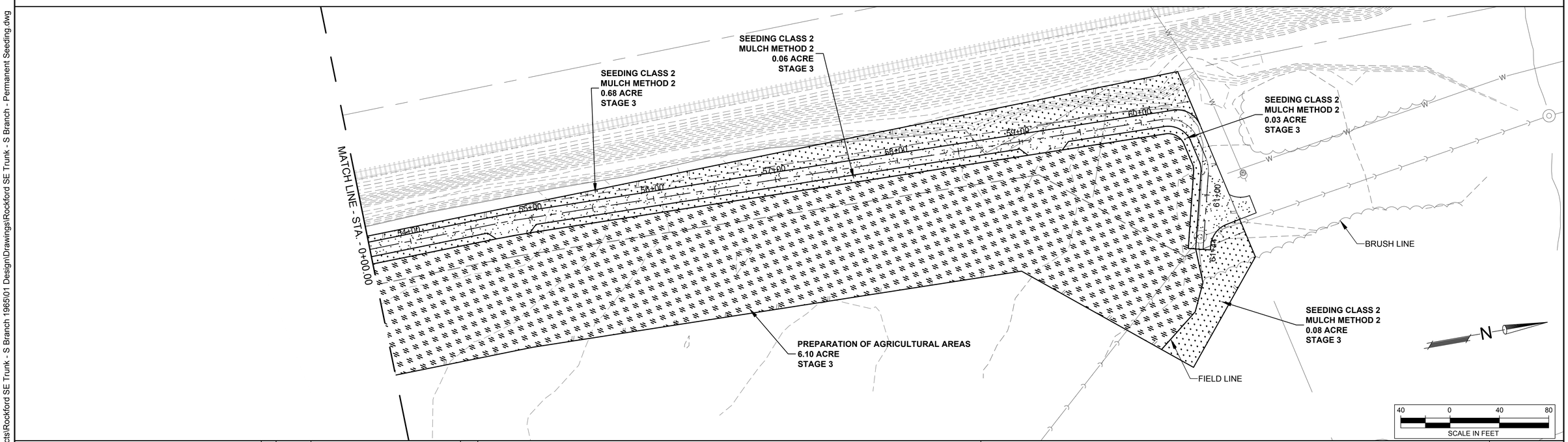
FOR BID

Sheet No.
35 OF 38

Date
8/19/2019

file: I:\District Projects\Rockford SE Trunk - S Branch 1965\01 Design\Drawings\Rockford SE Trunk - S Branch - Permanent Seeding.dwg





Rock River Water Reclamation District

ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
CAPITAL IMPROVEMENT PROJECT #1965

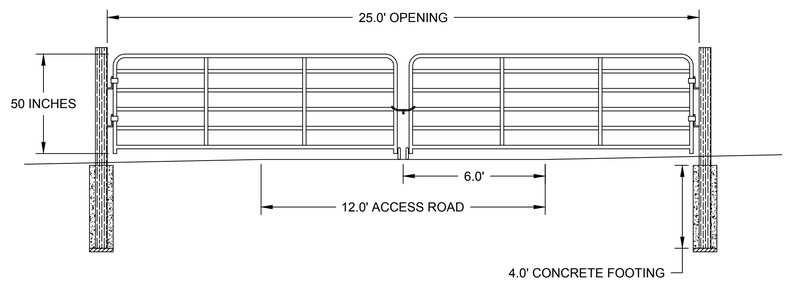
PERMANENT SEEDING PLAN 3

Sheet No. 36 OF 38

FOR BID

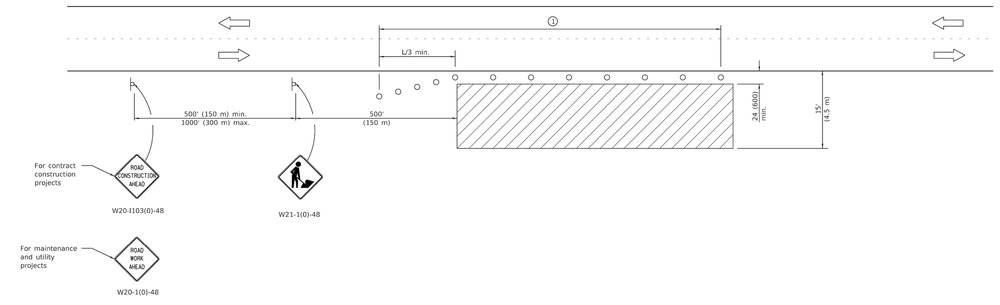
Date 8/19/2019

file: I:\District Projects\Rockford SE Trunk - S Branch 1965\01 Design\Drawings\Rockford SE Trunk - S Branch - Permanent Seeding.dwg



NOTES:
1. THE GATE OPENING SHALL BE 25' CLEAR.
2. 6x6 TREATED WOOD POSTS SHALL BE INSTALLED 4 FEET DEEP WITH A 12 INCH DIA CONCRETE ENCASEMENT. POSTS SHALL BE SET ON A CONCRETE BLOCK.
3. ITEM SHALL INCLUDE A 3/16" GALVANIZED CHAIN WITH A COMMERCIAL GRADE PADLOCK.
4. GATES SHALL HAVE WHEELS TO ASSIST WITH OPENING.
5. ADDITIONAL SUPPORT SHALL BE USED IF REQUIRED BY THE MANUFACTURER.
6. GATES AND HARDWARE SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER, ALL PARTS INCLUDED.
7. GATES SHALL BE INSTALLED SO THAT THEY CAN BE EASILY OPENED AND CLOSED WITHOUT BINDING OF THE HINGES OR UNSUPPORTED WEIGHT.
8. GATES SHALL OPEN TO THE NORTH.

FIELD ENTRANCE GATE DETAIL



TYPICAL APPLICATIONS
Utility operations
Culvert extensions
Side slope changes
Guardrail installation and maintenance
Delineator installation
Landscaping operations
Shoulder repair
Sign installation and maintenance

① When the work operation exceeds one hour, cones, drums or barricades shall be placed at 25' (8 m) centers for L/3 distance, and at 50' (15 m) centers through the remainder of the work area.

GENERAL NOTES
This Standard is used where any vehicles, equipment, workers or their activities will encroach in the area 15' (4.5 m) to 24 (600) from the edge of pavement.

Calculate L as follows:

SPEED LIMIT	FORMULAS English	FORMULAS (Metric)
40 mph (70 km/h) or less:	$L=\frac{WS^2}{60}$	$L=\frac{WS^2}{150}$
45 mph (80 km/h) or greater:	L=(W)(S)	L=0.65(W)(S)

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

All dimensions are in inches (millimeters) unless otherwise shown.

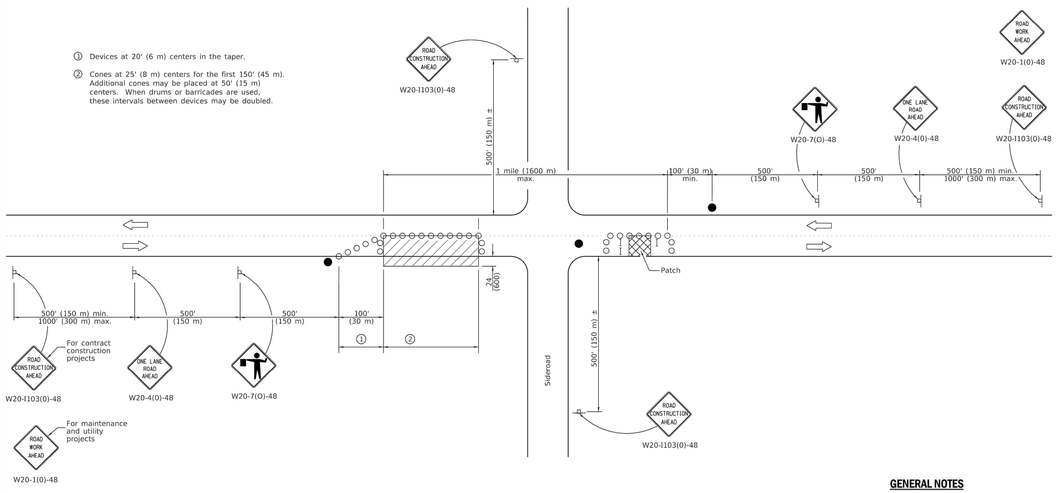
SYMBOLS
Work area
Sign
Cone, drum or barricade

Illinois Department of Transportation
PASSED January 1, 2014 — ENGINEER OF SAFETY ENGINEERING
APPROVED January 1, 2014 — ENGINEER OF DESIGN AND ENVIRONMENT
GDHDD 1-1-97

DATE	REVISIONS
1-1-14	Revised workers sign
	number to agree with
	current MUTCD.
1-1-13	Omitted text 'WORKERS'
	sign.

OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE

STANDARD 701006-05



TYPICAL APPLICATIONS
Isolated patching
Utility operations
Storm sewer
Culverts
Cable placement

SYMBOLS
Work area
Sign
Barricade or drum
Cone, drum or barricade
Flagger with traffic control sign

GENERAL NOTES
This Standard is used where at any time, any vehicles, equipment, workers or their activities will encroach in the area between the center line and a line 24 (600) outside the edge of pavement for daylight operation.

When the distance between successive work areas exceeds 2000' (600 m), additional warning signs, flaggers, and taper shall be placed as shown.

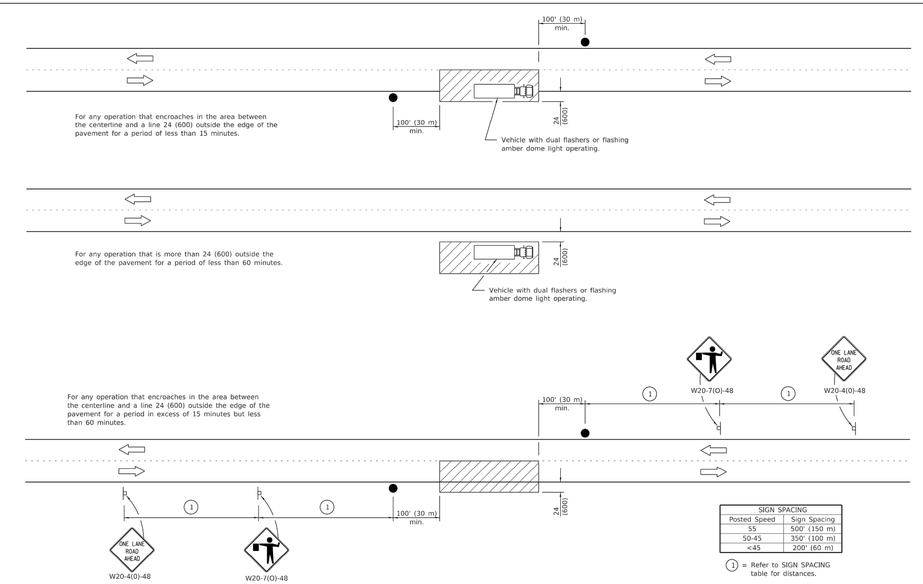
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
APPROVED January 1, 2019 — ENGINEER OF SAFETY PROG. AND ENGINEERING
APPROVED January 1, 2019 — ENGINEER OF DESIGN AND ENVIRONMENT
GDHDD 1-1-97

DATE	REVISIONS
1-1-19	Revised device spacing in taper.
1-1-11	Revised flagger sign.

LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH

STANDARD 701201-05



SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

① = Refer to SIGN SPACING table for distances.

All dimensions are in inches (millimeters) unless otherwise shown.

TYPICAL APPLICATIONS
Marking patches
Field survey
Scting line
Utility operations
Cleaning up debris on pavement

SYMBOLS
Work area
Sign on portable or permanent support
Flagger with traffic control sign

Illinois Department of Transportation
PASSED January 1, 2011 — ENGINEER OF SAFETY ENGINEERING
APPROVED January 1, 2011 — ENGINEER OF DESIGN AND ENVIRONMENT
GDHDD 1-1-97

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to
	English (metric).

LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

STANDARD 701301-04

Rock River Water Reclamation District
ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
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(815) 387-7660

No.	DATE	REVISION	INT.

ROCKFORD SOUTHEAST TRUNK - SOUTH BRANCH
CAPITAL IMPROVEMENT PROJECT #1965

PROJECT DETAILS & TRAFFIC CONTROL STANDARDS

FOR BID

Date 8/19/2019

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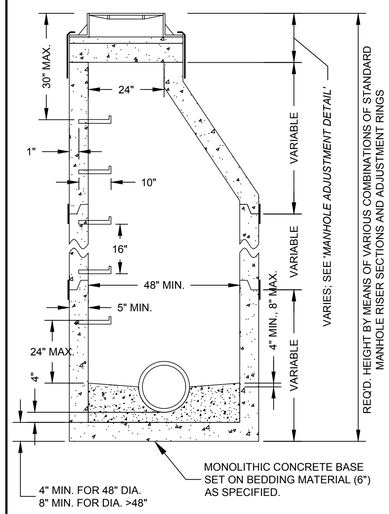
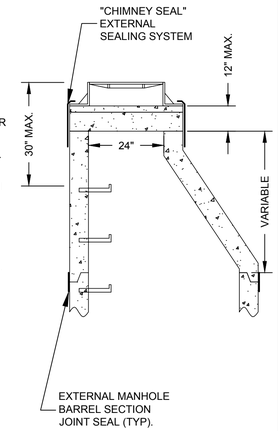
NOTES:
1. THE MAX. DROP FROM THE INVERT OF ANY PIPE TO THE CONCRETE CHANNEL UNDER THAT PIPE SHALL BE 8".
2. MANHOLES LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY SHALL BE MARKED WITH A STEEL FENCE POST AS DIRECTED.
3. ALL NEW MANHOLES SHALL BE VACUUM TESTED PER A.S.T.M. C-1244 PRIOR TO ACCEPTANCE.
4. ALL BARREL JOINTS SHALL BE SEALED WITH 3 1/2" x 3/8" BITUMINOUS MATERIAL ON THE LOWER SHIPLAP.
5. ALL BARREL JOINTS SHALL BE SEALED WITH AN EXTERNAL BARREL SEAL CENTERED ON THE JOINT (MAR MAC MACWRAP OR APPROVED EQUAL)
6. MANHOLE STRUCTURE SHALL BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE MANHOLE RISER SECTIONS IN ACCORDANCE WITH A.S.T.M. C478-90 OR THE LATEST DESIGNATION.
7. PRECAST FLAT TOPS ARE NOT APPROVED FOR USE.
8. SEE *'MANHOLE ADJUSTMENT DETAIL'* FOR ADJUSTMENT REQUIREMENTS.
9. PIPE CONNECTIONS TO NEW MANHOLES SHALL BE MADE BY MEANS OF EITHER RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL) CONFORMING TO ASTM F-477 CAST INTEGRALLY IN MANHOLE WALL, OR RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923. FOR PIPE CONNECTIONS WITH A DEPTH OF >20 FT., A RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL) CONFORMING TO ASTM F-477 CAST INTEGRALLY IN MANHOLE WALL SHALL BE USED.
10. PIPE CONNECTIONS TO EXISTING MANHOLES SHALL BE MADE BY MEANS OF CORE DRILLING MANHOLE WALL AND INSTALLING RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923.
11. THE MAXIMUM DISTANCE FROM ANY INLET PIPE INVERT TO THE OUTLET PIPE INVERT SHALL BE 2'. A DISTANCE GREATER THAN 2' WILL REQUIRE AN INSIDE DROP CONNECTION PER *'INSIDE DROP MANHOLE DETAIL'*.
12. MANHOLE STEPS SHALL BE NEENAH R-1982-F OR M.A. IND. PS-1 OR APPROVED EQUAL AT 16" CENTERS.



STANDARD MANHOLE DETAIL
(*'MANHOLE ADJUSTMENT DETAIL'* SHALL APPLY)

rev. 4/1/19

NOTES:
1. MANHOLE FRAME & LID SHALL BE NEENAH R-1670 OR EAST JORDAN E-1117 WITH NON-ROCKING & SELF-SEALING LID.
2. LID SHALL HAVE 2" HIGH "SANITARY" LETTERING & A CONCEALED PICK HOLE.
3. ALL ADJUSTMENT RING JOINTS SHALL BE SEALED WITH TWO 1" BEADS OF APPROVED BITUMINOUS MATERIAL, INCLUDING FRAME TO CONCRETE JOINT.
4. NO TARRING OR GROUTING IS ALLOWED ON THE INSIDE OF MANHOLE OR ADJUSTMENT JOINTS.
5. 2" RINGS ALLOWED ONLY IN THE CITY OF ROCKFORD RIGHT-OF-WAY; ALL OTHER 2" RINGS SHALL BE RRWRD APPROVED RUBBER ADJUSTMENT RING.
6. ONLY ONE 2" RING ALLOWED PER MANHOLE. MAXIMUM ADJUSTMENT IS 12". MINIMUM ADJUSTMENT IS 4" UNLESS OFF-ROAD OR IN CURB & GUTTER ROADWAY.
7. WHEN A FRAME REQUIRES PITCHING, A MIN. OF 3 SHIMS EQUALLY SPACED SHALL BE INSTALLED BETWEEN THE FRAME AND CONCRETE AND HYDRAULIC CEMENT SHALL BE USED TO FILL THE VOID BETWEEN THE FRAME & CONCRETE.
8. FLAT-TOPS ARE NOT PERMITTED ON 4' OR 5' DIA. MANHOLES.
9. REPLACEMENT OF EXISTING BARREL SECTIONS MAY BE REQUIRED TO MEET THE ABOVE REQUIREMENTS.



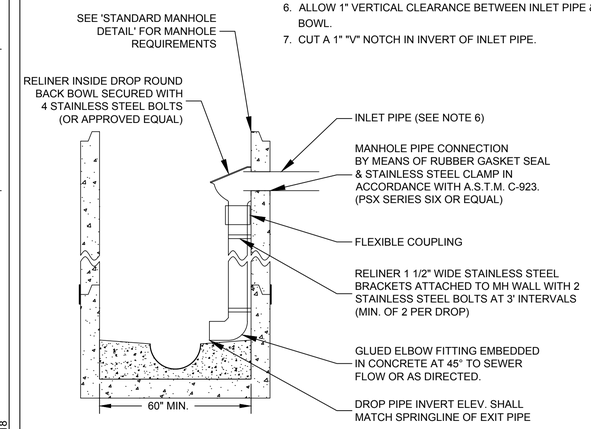
MANHOLE ADJUSTMENT DETAIL
(FOR ADJUSTMENT OF BOTH NEW & EXISTING MANHOLES)

rev. 5/15/18

DROP BOWL & DROP PIPE SIZING TABLE

INLET PIPE DIA.	DROP PIPE DIA. (MIN.)
4-6 INCH	4 INCH
8 INCH	6 INCH
10 INCH	8 INCH
>10 INCH	*
* PER MFG. OR AS DIRECTED BY RRWRD	

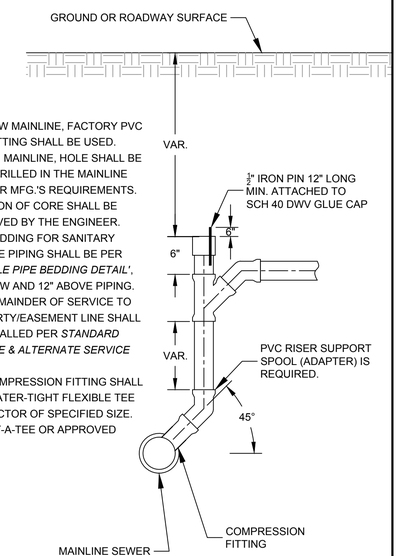
NOTES:
1. INSIDE DROP TYPE MANHOLES SHALL BE 5' MIN. INSIDE DIA.
2. ALL INSIDE DROP TYPE CONNECTIONS FOR SERVICES AND COLLECTOR SEWERS SHALL USE THE DROP AS PRODUCED BY RELINER-DURAN INC. OR EQUAL.
3. SEE TABLE FOR DROP BOWL AND DROP PIPE SIZES.
4. ALL INSIDE DROP PIPING SHALL BE PVC SDR35 ASTM-D3034.
5. ATTACH THE ROUND BACK DROP BOWL AND EACH CLAMPING BRACKET TO THE MANHOLE WALL WITH 3/8"x 1" MIN. STAINLESS STEEL BOLTS AND EPOXY IMPREGNATED LUGS PER MFG. RECOMMENDATIONS.
6. ALLOW 1" VERTICAL CLEARANCE BETWEEN INLET PIPE & BOWL.
7. CUT A 1" "V" NOTCH IN INVERT OF INLET PIPE.



INSIDE DROP MANHOLE DETAIL
(*'STANDARD MANHOLE DETAIL'* SHALL APPLY)

rev. 5/15/18

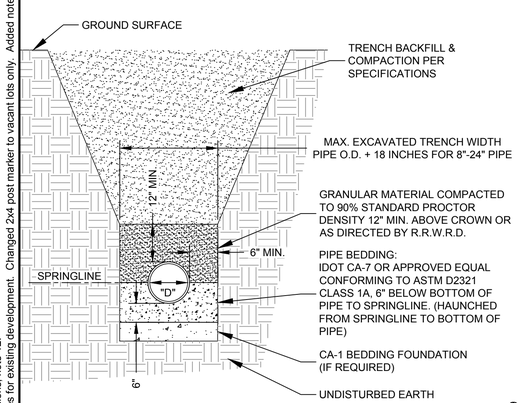
NOTES:
1. FOR NEW MAINLINE, FACTORY PVC WYE FITTING SHALL BE USED.
2. FOR EX. MAINLINE, HOLE SHALL BE CORE DRILLED IN THE MAINLINE PIPE PER MFG.'S REQUIREMENTS. LOCATION OF CORE SHALL BE APPROVED BY THE ENGINEER.
3. PIPE BEDDING FOR SANITARY SERVICE PIPING SHALL BE PER *'FLEXIBLE PIPE BEDDING DETAIL'*, 6" BELOW AND 12" ABOVE PIPING.
4. THE REMAINDER OF SERVICE TO PROPERTY/EASEMENT LINE SHALL BE INSTALLED PER *STANDARD SERVICE & ALTERNATE SERVICE DETAIL*.
5. THE COMPRESSION FITTING SHALL BE A WATER-TIGHT FLEXIBLE TEE CONNECTOR OF SPECIFIED SIZE. (INSERT-A-TEE OR APPROVED EQUAL).



VERTICAL SERVICE RISER DETAIL
(FOR MAINLINE DIA. 8" - 18")

rev. 5/15/18

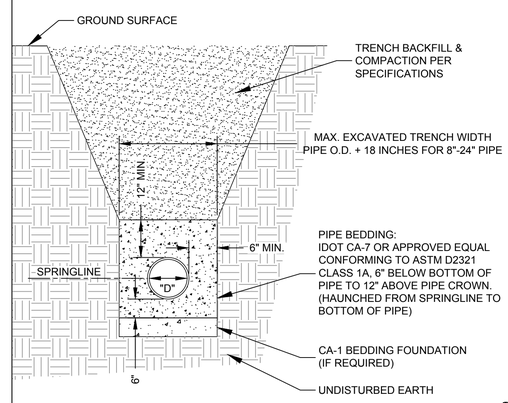
NOTES:
1. REASONABLE CARE SHALL BE USED WHEN BACKFILLING OVER SEWER. NO MATERIALS SUCH AS ROCKS OR BOULDERS SHALL BE PLACED WITHIN 24" OF THE CROWN OF THE PIPE. NO MATERIAL LARGER THAN 8" DIA. SHALL BE USED IN THE BACKFILL.
2. LOOSE MATERIAL TO BE REMOVED OR COMPACTED PRIOR TO PLACING PIPE BEDDING.
3. BEDDING SHALL BE WELL HAUNCHED ALONG PIPE TO ENSURE VOIDS ARE ELIMINATED.



RIGID PIPE BEDDING DETAIL

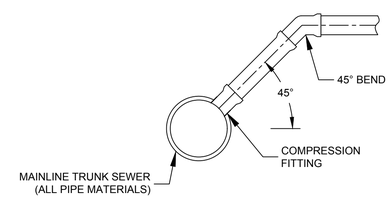
rev. 4/1/19

NOTES:
1. REASONABLE CARE SHALL BE USED WHEN BACKFILLING OVER SEWER. NO MATERIALS SUCH AS ROCKS OR BOULDERS SHALL BE PLACED WITHIN 24" OF THE CROWN OF THE PIPE. NO MATERIAL LARGER THAN 8" DIA. SHALL BE USED IN THE BACKFILL.
2. LOOSE MATERIAL TO BE REMOVED OR COMPACTED PRIOR TO PLACING PIPE BEDDING.
3. BEDDING SHALL BE WELL HAUNCHED ALONG PIPE TO ENSURE VOIDS ARE ELIMINATED.



FLEXIBLE PIPE BEDDING DETAIL

rev. 4/1/19

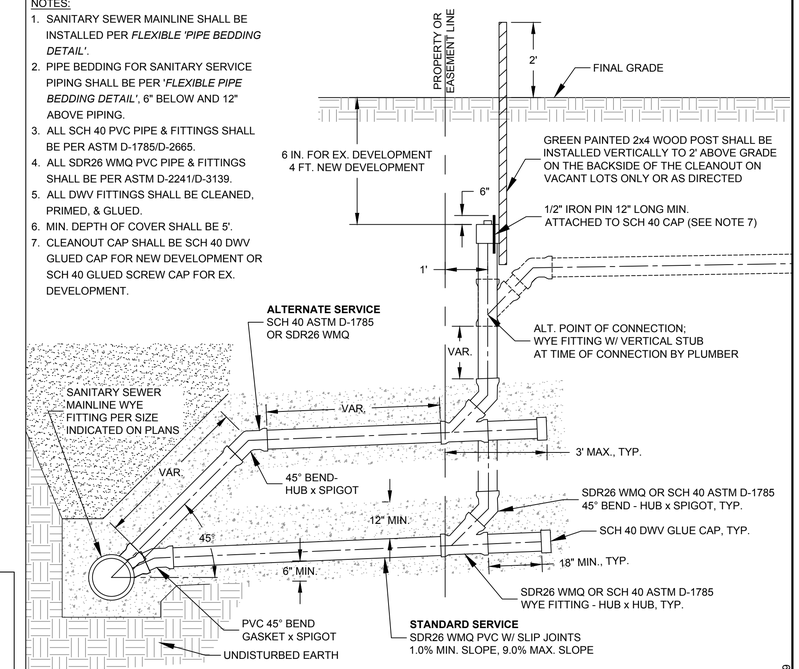


NOTES:
1. HOLE SHALL BE CORE DRILLED IN THE MAINLINE PIPE PER MFG.'S REQUIREMENTS.
2. LOCATION OF CORE SHALL BE APPROVED BY THE ENGINEER.
3. PIPE BEDDING SHALL BE PER *'FLEXIBLE PIPE BEDDING DETAIL'* 6" BELOW AND 12" ABOVE.
4. THE REMAINDER OF SERVICE TO PROPERTY/EASEMENT LINE SHALL BE INSTALLED PER *'STANDARD SERVICE & ALTERNATE SERVICE DETAIL'*.
5. THE COMPRESSION FITTING SHALL BE A WATER-TIGHT FLEXIBLE TEE CONNECTOR OF SPECIFIED SIZE. (INSERT-A-TEE OR APPROVED EQUAL).

SERVICE CONNECTION DETAIL FOR CONNECTION TO 18" DIA. OR LARGER PIPE

rev. 5/15/18

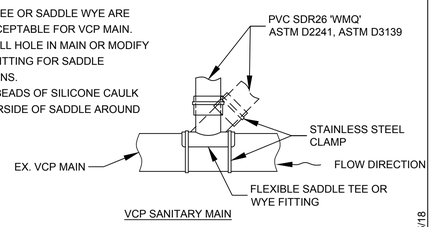
NOTES:
1. SANITARY SEWER MAINLINE SHALL BE INSTALLED PER *FLEXIBLE 'PIPE BEDDING DETAIL'*.
2. PIPE BEDDING FOR SANITARY SERVICE PIPING SHALL BE PER *'FLEXIBLE PIPE BEDDING DETAIL'*, 6" BELOW AND 12" ABOVE PIPING.
3. ALL SCH 40 PVC PIPE & FITTINGS SHALL BE PER ASTM D-1785/D-2665.
4. ALL SDR26 WMQ PVC PIPE & FITTINGS SHALL BE PER ASTM D-2241/D-3139.
5. ALL DWV FITTINGS SHALL BE CLEANED, PRIMED, & GLUED.
6. MIN. DEPTH OF COVER SHALL BE 5'.
7. CLEANOUT CAP SHALL BE SCH 40 DWV GLUED CAP FOR NEW DEVELOPMENT OR SCH 40 GLUED SCREW CAP FOR EX. DEVELOPMENT.



STANDARD SERVICE & ALTERNATE SERVICE DETAIL
(FOR MAINLINE DIA. 8" - 18")

rev. 4/1/19

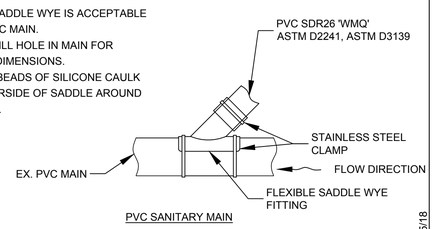
NOTES:
1. SADDLE TEE OR SADDLE WYE ARE BOTH ACCEPTABLE FOR VCP MAIN.
2. CORE DRILL HOLE IN MAIN OR MODIFY EX. VCP FITTING FOR SADDLE DIMENSIONS.
3. APPLY 2 BEADS OF SILICONE CAULK TO UNDERSIDE OF SADDLE AROUND OPENING.



FLEXIBLE SADDLE CONNECTION DETAIL

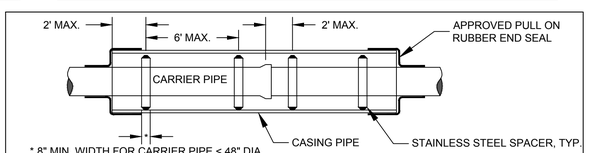
rev. 5/15/18

NOTES:
1. ONLY A SADDLE WYE IS ACCEPTABLE FOR A PVC MAIN.
2. CORE DRILL HOLE IN MAIN FOR SADDLE DIMENSIONS.
3. APPLY 2 BEADS OF SILICONE CAULK TO UNDERSIDE OF SADDLE AROUND OPENING.



FLEXIBLE SADDLE CONNECTION DETAIL

rev. 5/15/18



* 8" MIN. WIDTH FOR CARRIER PIPE < 48" DIA.
12" MIN. WIDTH FOR CARRIER PIPE ≥ 48" DIA.

NOTES:
1. CASING END SEALS & SPACERS SHALL BE AS MFG. BY CASCADE MFG., OR APPROVED EQUAL.
2. FOR FLEXIBLE CARRIER PIPE, SPACING OF SPACERS TO BE AS SHOWN, OR PER MFG.'S RECOMMENDATION.
3. FOR RIGID CARRIER PIPE, SPACING SHALL BE PER MFG.'S RECOMMENDATION.

CASING & SPACER DETAIL

rev. 5/15/18

4/1/19 Revisions:
Entire sheet: Made minor spelling/wording changes.
Rigid Pipe Bedding Detail: Added note 3.
Flexible Pipe Bedding Detail: Added note 3.
Standard Manhole Detail: Added manhole step specifications and dimensions, note 12.
Standard Service & Alt. Service Detail: Revised cleanout depth to 6 inches for existing development. Changed 2x4 post marker to vacant lots only. Added note 7.

Rock River Water Reclamation District

ROCK RIVER WATER RECLAMATION DISTRICT
STANDARD DETAIL SHEET
(NOT TO SCALE)
3501 KISHWAUKEE ST. P.O. BOX 7480
ROCKFORD, ILLINOIS 61109 PH. (815) 387-7660

SHEET No. 38 OF 38

ISSUE 4/1/19