ROCK RIVER WATER RECLAMATION DISTRICT

SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135
2020

Not to be used for bidding purposes

BOARD OF TRUSTEES

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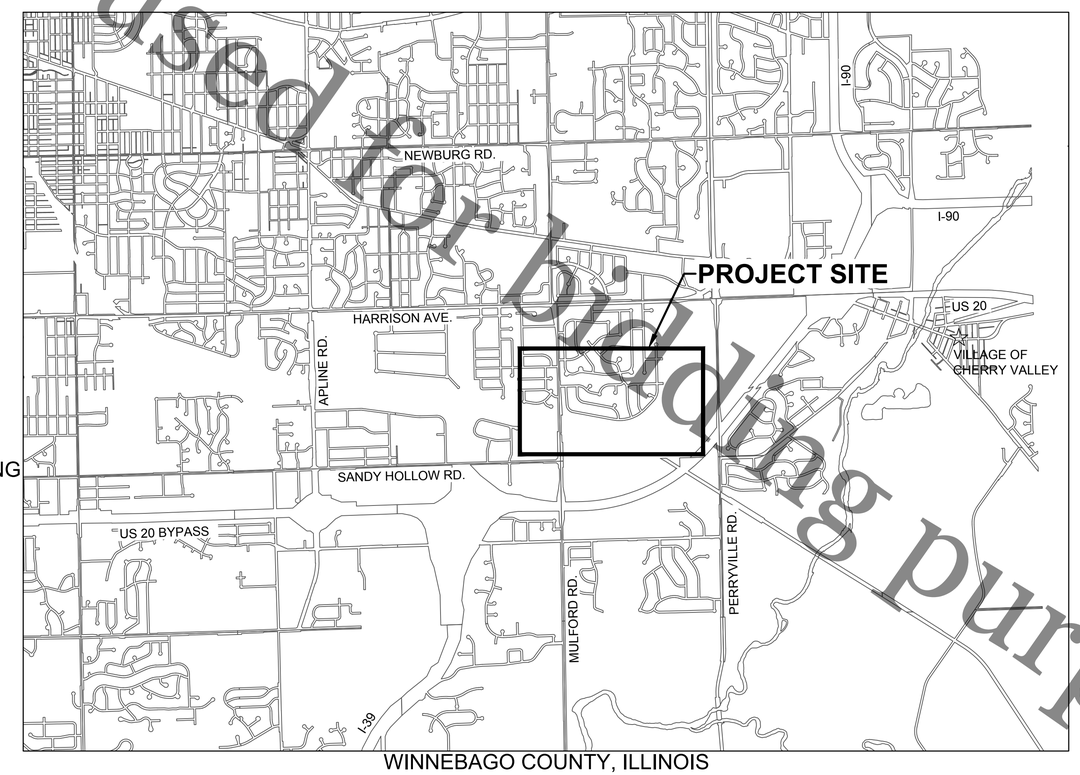

WINNEBAGO COUNTY, ILLINOIS

Rock River Water Reclamation District

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7/1/2020
LICENSED PROFESSIONAL ENGINEER
TYLER V. NELSON
062-061714
STATE OF ILLINOIS
Exp. 11/30/2021

FOR BID

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sheet set: SHELBURNE DR SA#135 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
E		ELECTRIC MANHOLE
SB 1		SOIL BORING
BM# 1	CP# 1	BENCHMARK & CONTROL POINT
		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 CONC. / AGG. TURF		EXISTING SURFACE TYPE (HOT-MIX ASPHALT, AGGREGATE, CONCRETE, TURF)
SH SV	SH SV	SPRINKLER HEAD & SPRINKLER VALVE
		DITCH CHECK
		INLET OR PIPE PROTECTION
		STABILIZED CONSTRUCTION ENTRANCE
		EROSION CONTROL BLANKET
		HEAVY DUTY EROSION CONTROL BLANKET
		TEMPORARY EROSION CONTROL SEEDING
		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	PRC =	PRECAST REINFORCED CONCRETE
CY =	CUBIC YARD(S)	PR =	PROPOSED
DI =	DUCTILE IRON	RCP =	REINFORCED CONCRETE PIPE
EA =	EACH	REM =	REMOVE(D)
EL =	ELEVATION	REPL =	REPLACE(D)
EROS=	EROSION	R/R =	REMOVE & REPLACE
EX =	EXISTING	SAN =	SANITARY
FES =	FLARED END SECTION	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 THE EXECUTION OF WORK TO THE LINES AND GRADES SHOWN ON THE PLANS. CONSTRUCTION SHALL NOT VARY FROM THE PLANS WITHOUT PRIOR APPROVAL FROM THE ROCK RIVER WATER RECLAMATION DISTRICT (DISTRICT).
2. THE CONTRACTOR SHALL NOTIFY THE DISTRICT, MUNICIPAL AGENCIES, JURISDICTIONAL ROADWAY AUTHORITIES AND ALL AFFECTED PROPERTY OWNERS A MINIMUM OF 48 HOURS PRIOR TO START OF CONSTRUCTION.
3. ALL SERVICE LOCATIONS ARE APPROXIMATE AND MAY BE CHANGED IN THE FIELD IF APPROVED BY THE DISTRICT INSPECTOR. NO ADDITIONAL COMPENSATION WILL BE AWARDED FOR REVISED SERVICE LOCATIONS.
4. ALL MANHOLE CASTINGS SHALL BE EXPOSED AND SET TO FINAL GRADE PER DISTRICT REQUIREMENTS UNLESS OTHERWISE NOTED IN THE PROJECT PLANS OR SPECIFICATIONS.
5. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN THE STATE OF ILLINOIS, LATEST EDITION, AND THE REQUIREMENTS OF THE DISTRICT.
6. THE CONTRACTOR SHALL IDENTIFY ALL UTILITY LOCATIONS IN THE FIELD BY CONTACTING J.U.L.I.E. AT 811 OR 1-800-892-0123 AND ALL UTILITIES NOT ON THE J.U.L.I.E. NETWORK 48 HOURS, MINIMUM, PRIOR TO START OF CONSTRUCTION.
7. ALL ROADWAY CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ROADWAY AUTHORITY, THE I.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS, LATEST EDITION, AND THE ROCK RIVER WATER RECLAMATION DISTRICT.
8. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE I.E.P.A. NPDES PERMIT AND THE ILLINOIS URBAN MANUAL FOR SOIL EROSION AND SEDIMENT CONTROL.
9. PROTECTION OF WATER SUPPLIES SHALL BE IN ACCORDANCE WITH TITLE 35, C, SECTION 370.350 OF THE ILLINOIS RECOMMENDED STANDARDS FOR SEWAGE WORKS.

SPECIAL CONSIDERATIONS

1. THE FOLLOWING I.D.O.T. HIGHWAY STANDARDS SHALL BE USED FOR THIS PROJECT:
   280001-07 TEMPORARY EROSION CONTROL SYSTEMS
   D2 STANDARD 40.1 TRAFFIC CONTROL FOR ROAD CLOSURE
2. MAILBOXES SHALL BE TEMPORARILY RELOCATED AT THE DIRECTION OF THE ENGINEER. MAILBOXES SHALL BE ACCESSIBLE AT ALL TIMES, WHETHER AT TEMPORARY OR PERMANENT LOCATIONS. PROPER ADVANCE NOTIFICATION SHALL BE GIVEN BY THE CONTRACTOR TO THE OWNER AND THE USPS PRIOR TO RELOCATING A MAILBOX TO A TEMPORARY LOCATION OR RESTORING A MAILBOX TO ITS PRIOR LOCATION. ALL WORK ASSOCIATED WITH TEMPORARY OR PERMANENT MAILBOX RELOCATION SHALL BE AT NO ADDITIONAL COST TO THE DISTRICT.
3. SHELBURNE DRIVE SHALL REMAIN OPEN TO LOCAL TRAFFIC AT ALL TIMES DURING CONSTRUCTION. CONSTRUCTION TRAFFIC SHALL LIMIT THE USAGE OF LOCAL STREETS IN THE VICINITY OF SHELBURNE DRIVE; ENTRANCE TO THE PROJECT SHALL BE FROM ABINGTON DRIVE AND SOUTH MULFORD ROAD.
4. WORK ON THE ADJACENT CAVENDISH DRIVE SANITARY SEWER EXTENSION (SPECIAL ASSESSMENT #134) MAY BE PROCEEDING IN CONJUNCTION WITH THIS PROJECT. COORDINATION BETWEEN CONTRACTORS, PER ARTICLE 105.08 OF THE *IDOT STANDARD SPECIFICATIONS*, SHALL APPLY TO THIS PROJECT. THE CONTRACTOR ON THIS PROJECT SHALL FULLY COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE CAVENDISH DRIVE SANITARY SEWER EXTENSION CONTRACTOR AND SHALL NOT IMPEDE MATERIAL DELIVERY, CONSTRUCTION ACCESS, OR ANY CONSTRUCTION OPERATIONS OF THE ADJACENT PROJECT.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USE(S)	SURFACE COURSE	BINDER COURSE
PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0 @ N50	4.0 @ N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 19.0
FRICTION AGGREGATE	MIX "C"	N/A
MIX UNIT WEIGHT	112 lbs/sy/in	112 lbs/sy/in
THESE MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT		

SUMMARY OF QUANTITES

Item No.	Item Description	Unit	Shelburne Dr. Qty.
1	Sanitary Sewer, PVC SDR 35, 8" Dia.	LF	2,229.0
2	Sanitary Manhole, 4' Dia.	EA	9.0
3	Connect To Existing Sanitary Manhole	EA	1.0
4	Sanitary Sewer Service, PVC SDR26 (WMQ), 4" Dia.	EA	44.0
5	Sanitary Sewer Trench Subbase Improvement	CY	100.0
6	Pavement Removal	SY	6,100.0
7	Pipe Culverts Removal, 15" Dia. CMP	LF	10.0
8	Pipe Culverts Removal, 24" Elliptical CMP	LF	30.0
9	Pipe Culverts, Class C TY 1 Galvanized Corrugated Steel, 15" Dia.	LF	10.0
10	Pipe Culverts, Class C TY 1 Galvanized Corrugated Steel, 24" Elliptical	LF	30.0
11	Grading and Shaping Ditches	LF	375.0
12	Aggregate Base Course, Type B 12"	SY	6,800.0
13	Aggregate Subgrade Improvement, Variable Depth	CY	500.0
14	Hot-Mix Asphalt Binder Course, IL-19.0, N50	TON	850.0
15	Hot-Mix Asphalt Surface Course, IL-9.5, Mix "C", N50	TON	670.0
16	Stabilized Construction Entrance	SY	110.0
17	Inlet and Pipe Protection	EA	46.0
18	Temporary Ditch Checks	LF	40.0
19	Erosion Control Blanket	SY	3,500.0
20	Topsoil Furnish and Place, 6"	SY	3,500.0
21	Seeding, Class 2 with Fertilizer	SY	3,500.0
22	Construction Layout	LS	1.0
23	Traffic Control & Protection	LS	1.0

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3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
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No.	DATE	REVISION	INT.

SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135

LEGEND GENERAL NOTES & SUMMARY OF QUANTITIES

FOR BID

Date 7/1/2020

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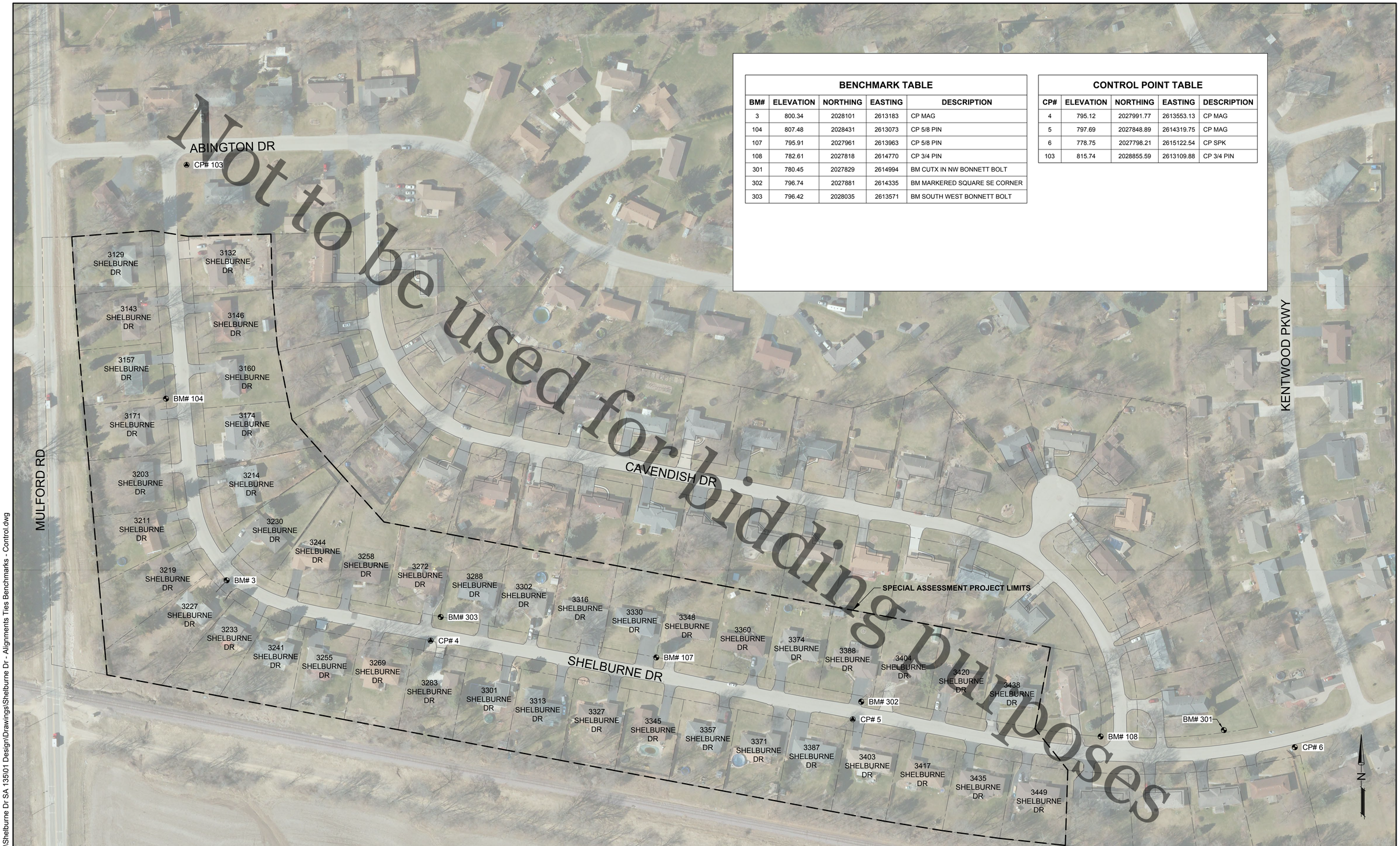
BENCHMARK TABLE				
BM#	ELEVATION	NORTHING	EASTING	DESCRIPTION
3	800.34	2028101	2613183	CP MAG
104	807.48	2028431	2613073	CP 5/8 PIN
107	795.91	2027961	2613963	CP 5/8 PIN
108	782.61	2027818	2614770	CP 3/4 PIN
301	780.45	2027829	2614994	BM CUTX IN NW BONNETT BOLT
302	796.74	2027881	2614335	BM MARKERED SQUARE SE CORNER
303	796.42	2028035	2613571	BM SOUTH WEST BONNETT BOLT

CONTROL POINT TABLE				
CP#	ELEVATION	NORTHING	EASTING	DESCRIPTION
4	795.12	2027991.77	2613553.13	CP MAG
5	797.69	2027848.89	2614319.75	CP MAG
6	778.75	2027798.21	2615122.54	CP SPK
103	815.74	2028855.59	2613109.88	CP 3/4 PIN



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SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135

ALIGNMENT TIES & BENCHMARKS - PROJECT CONTROL

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FOR BID

Date 7/1/2020

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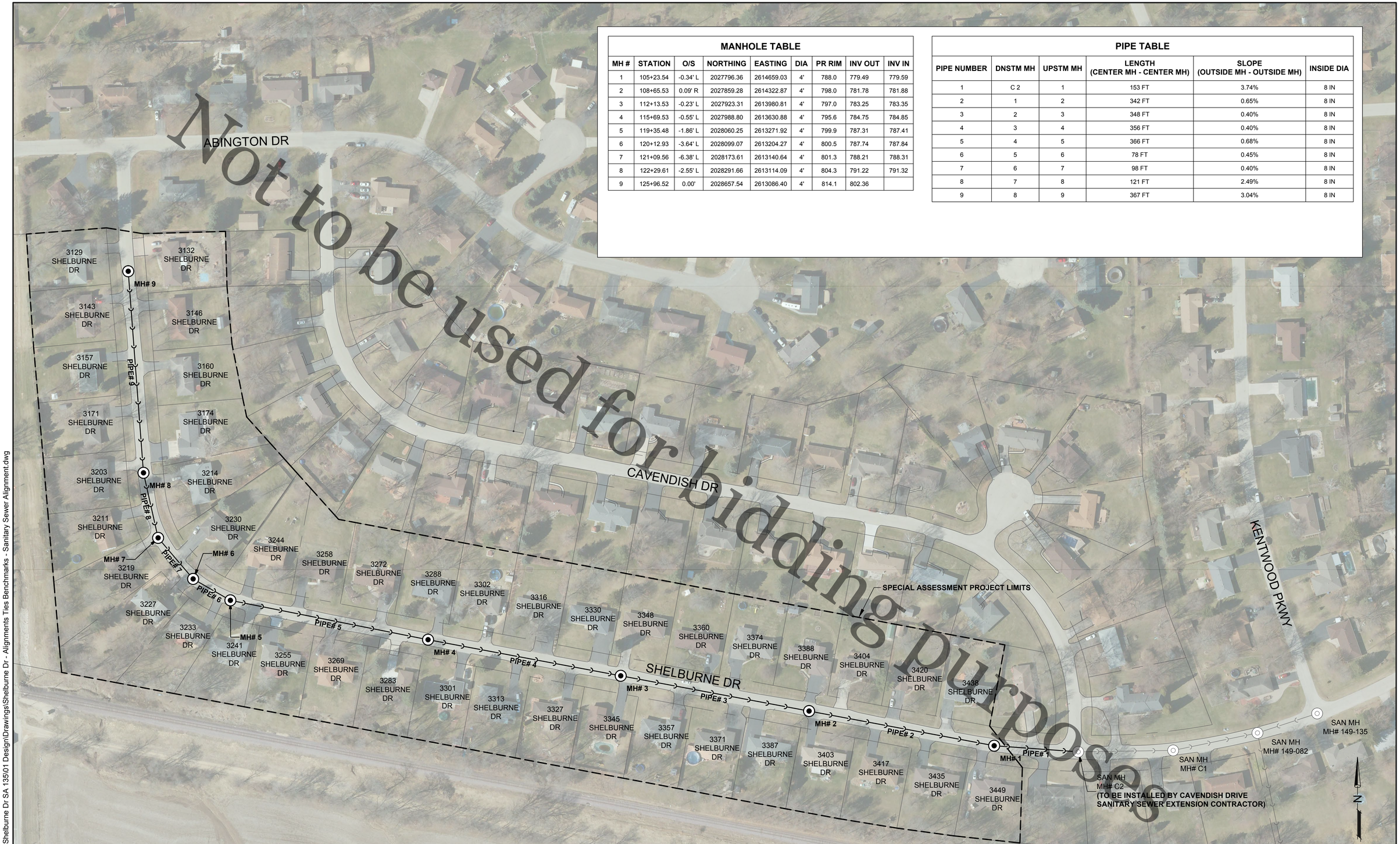
MANHOLE TABLE

MH #	STATION	O/S	NORTHING	EASTING	DIA	PR RIM	INV OUT	INV IN
1	105+23.54	-0.34' L	2027796.36	2614659.03	4'	788.0	779.49	779.59
2	108+65.53	0.09' R	2027859.28	2614322.87	4'	798.0	781.78	781.88
3	112+13.53	-0.23' L	2027923.31	2613980.81	4'	797.0	783.25	783.35
4	115+69.53	-0.55' L	2027988.80	2613630.88	4'	795.6	784.75	784.85
5	119+35.48	-1.86' L	2028060.25	2613271.92	4'	799.9	787.31	787.41
6	120+12.93	-3.64' L	2028099.07	2613204.27	4'	800.5	787.74	787.84
7	121+09.56	-6.38' L	2028173.61	2613140.64	4'	801.3	788.21	788.31
8	122+29.61	-2.55' L	2028291.66	2613114.09	4'	804.3	791.22	791.32
9	125+96.52	0.00'	2028657.54	2613086.40	4'	814.1	802.36	

PIPE TABLE

PIPE NUMBER	DNSTM MH	UPSTM MH	LENGTH (CENTER MH - CENTER MH)	SLOPE (OUTSIDE MH - OUTSIDE MH)	INSIDE DIA
1	C 2	1	153 FT	3.74%	8 IN
2	1	2	342 FT	0.65%	8 IN
3	2	3	348 FT	0.40%	8 IN
4	3	4	356 FT	0.40%	8 IN
5	4	5	366 FT	0.68%	8 IN
6	5	6	78 FT	0.45%	8 IN
7	6	7	98 FT	0.40%	8 IN
8	7	8	121 FT	2.49%	8 IN
9	8	9	367 FT	3.04%	8 IN



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SHELBURNE DRIVE SANITARY SEWER EXTENSION

SPECIAL ASSESSMENT #135

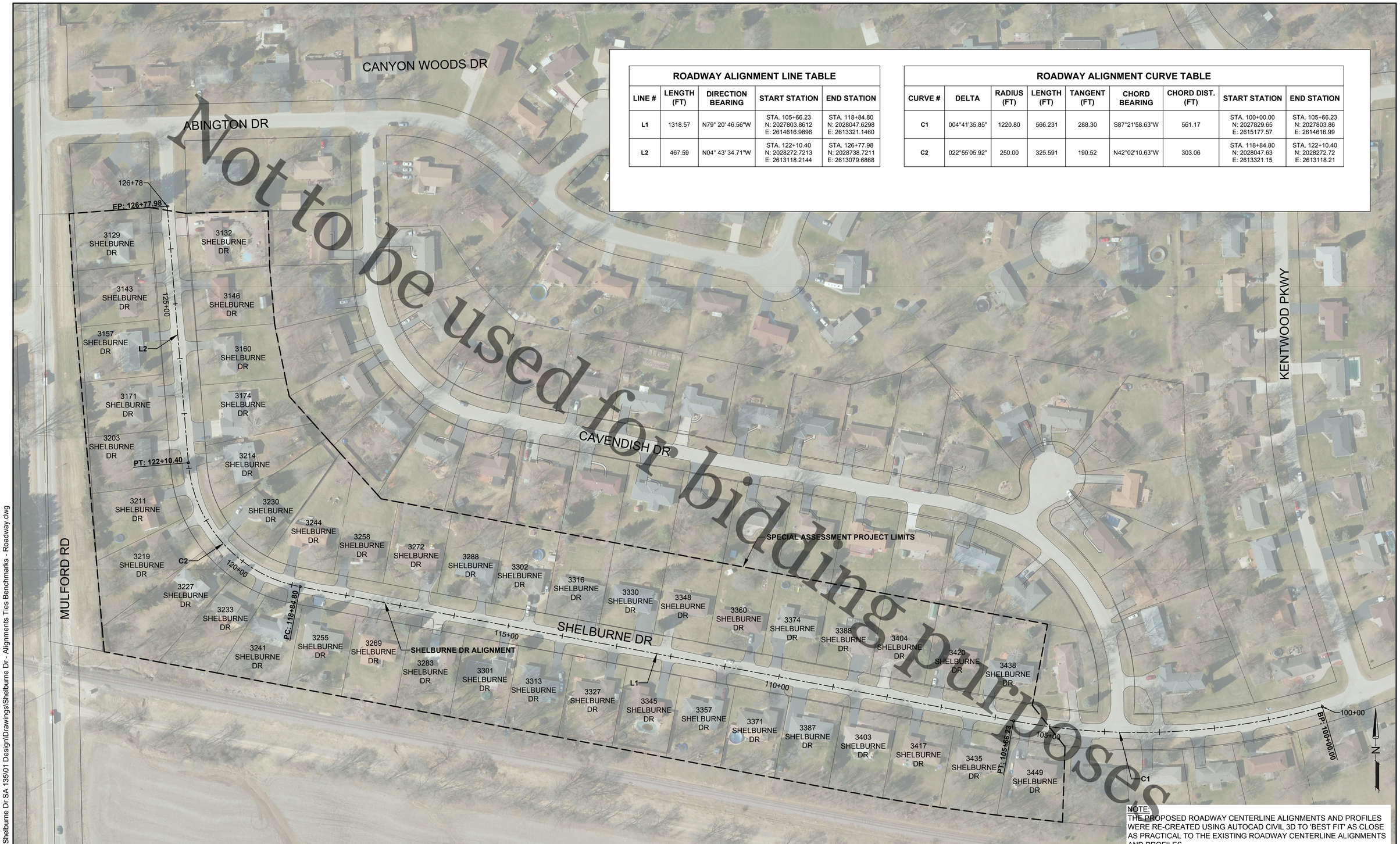
ALIGNMENT TIES & BENCHMARKS - SANITARY SEWER

FOR BID

Date 7/1/2020

ROADWAY ALIGNMENT LINE TABLE				
LINE #	LENGTH (FT)	DIRECTION BEARING	START STATION	END STATION
L1	1318.57	N79° 20' 46.56"W	STA. 105+66.23 N: 2027803.8612 E: 2614616.9896	STA. 118+84.80 N: 2028047.6298 E: 2613321.1460
L2	467.59	N04° 43' 34.71"W	STA. 122+10.40 N: 2028272.7213 E: 2613118.2144	STA. 126+77.98 N: 2028738.7211 E: 2613079.6868

ROADWAY ALIGNMENT CURVE TABLE								
CURVE #	DELTA	RADIUS (FT)	LENGTH (FT)	TANGENT (FT)	CHORD BEARING	CHORD DIST. (FT)	START STATION	END STATION
C1	004°41'35.85"	1220.80	566.231	288.30	S87°21'58.63"W	561.17	STA. 100+00.00 N: 2027829.65 E: 2615177.57	STA. 105+66.23 N: 2027803.86 E: 2614616.99
C2	022°55'05.92"	250.00	325.591	190.52	N42°02'10.63"W	303.06	STA. 118+84.80 N: 2028047.63 E: 2613321.15	STA. 122+10.40 N: 2028272.72 E: 2613118.21



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NOTE:
THE PROPOSED ROADWAY CENTERLINE ALIGNMENTS AND PROFILES WERE RE-CREATED USING AUTOCAD CIVIL 3D TO 'BEST FIT' AS CLOSE AS PRACTICAL TO THE EXISTING ROADWAY CENTERLINE ALIGNMENTS AND PROFILES.

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ALIGNMENT TIES & BENCHMARKS - ROADWAY ALIGNMENTS

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Date 7/1/2020

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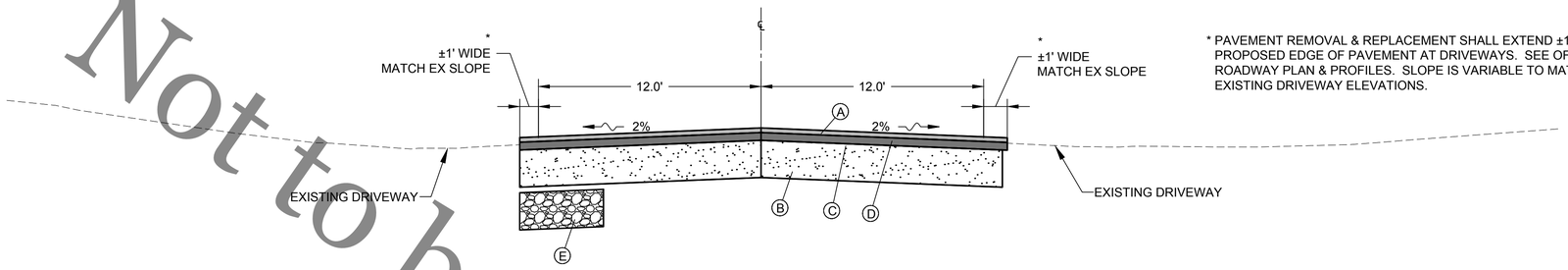
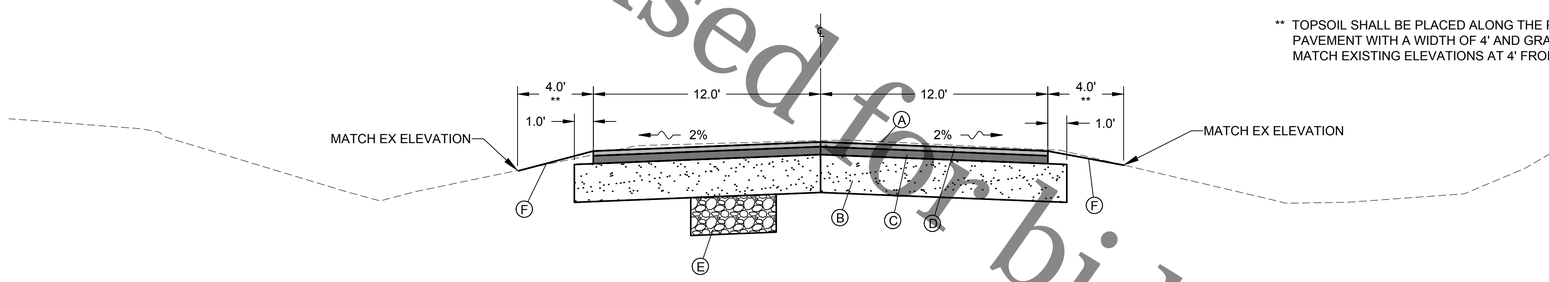


PROPOSED TYPICAL SECTION AT DRIVEWAYS

* PAVEMENT REMOVAL & REPLACEMENT SHALL EXTEND ±1' BEYOND PROPOSED EDGE OF PAVEMENT AT DRIVEWAYS. SEE OFFSETS ON ROADWAY PLAN & PROFILES. SLOPE IS VARIABLE TO MATCH EXISTING DRIVEWAY ELEVATIONS.

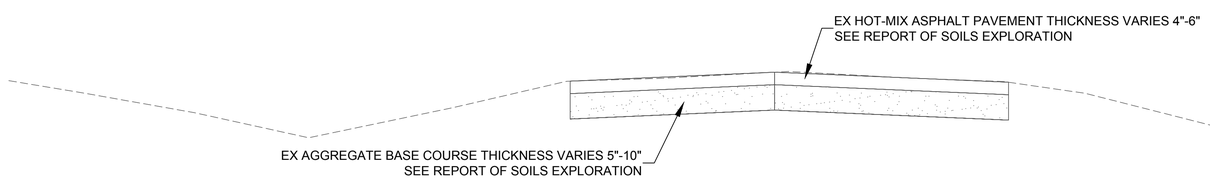
LEGEND

- (A) PAVEMENT REMOVAL (FULL WIDTH)
- (B) AGGREGATE BASE COURSE, TY. B, 12" (8" CA-02, 4" CA-06)
- (C) HMA BINDER COURSE, IL-19.0, N50 2 ¼"
- (D) HMA SURFACE COURSE, MIX 'C', N50, 1 ¾"
- (E) AGGREGATE SUBGRADE IMPROVEMENT, VARIABLE DEPTH AT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
- (F) TOPSOIL FURNISH & PLACE, 6"
  SEEDING CLASS 2 & FERTILIZING
  EROSION CONTROL BLANKET



PROPOSED TYPICAL SECTION

** TOPSOIL SHALL BE PLACED ALONG THE PROPOSED EDGE OF PAVEMENT WITH A WIDTH OF 4' AND GRADE SHALL VARY TO MATCH EXISTING ELEVATIONS AT 4' FROM EDGE OF PAVEMENT.



EXISTING SECTION

NOTE:
THE PROPOSED ROADWAY CENTERLINE ALIGNMENTS AND PROFILES WERE RE-CREATED USING AUTOCAD CIVIL 3D TO 'BEST FIT' AS CLOSE AS PRACTICAL TO THE EXISTING ROADWAY CENTERLINE ALIGNMENTS AND PROFILES.

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SPECIAL ASSESSMENT #135

TYPICAL SECTIONS

FOR BID

Sheet No. 6 OF 34

Date 7/1/2020

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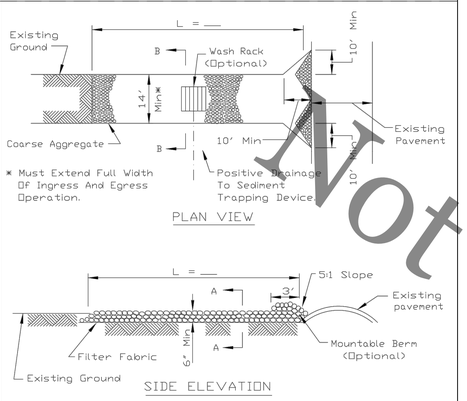
STABILIZED CONSTRUCTION ENTRANCE PLAN



NOTES:

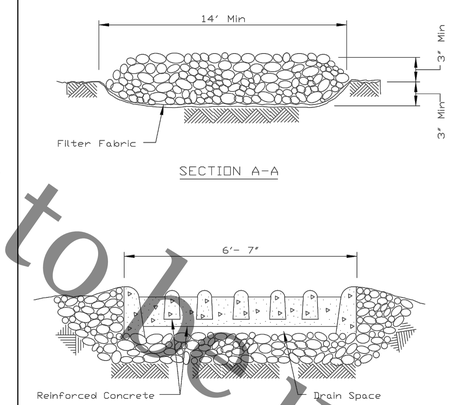
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 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
Project
Designed Date
Checked Date
Approved Date

NRCS Natural Resources Conservation Service

STANDARD DWG. NO. IL-630
SHEET 1 OF 2
DATE 8-18-94

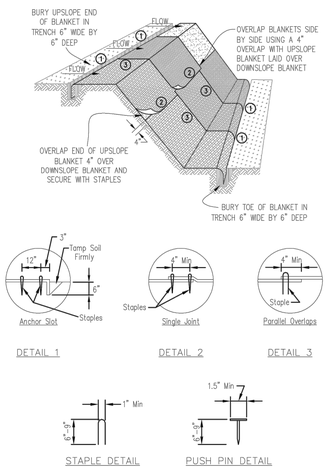
STABILIZED CONSTRUCTION ENTRANCE PLAN



REFERENCE
Project
Designed Date
Checked Date
Approved Date

NRCS Natural Resources Conservation Service

STANDARD DWG. NO. IL-630
SHEET 2 OF 2
DATE 8-18-94



NOTES:

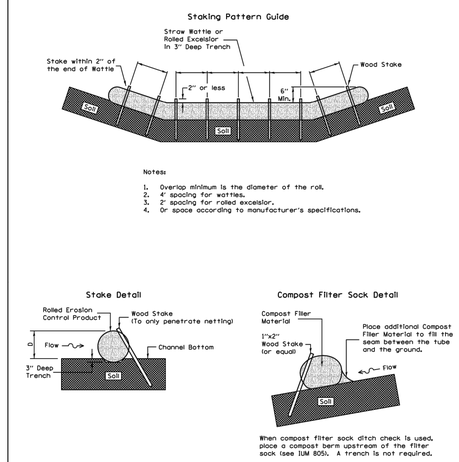
1. Staples shall be placed in a diamond pattern at 2 per s.y. for stiched blankets. Non-stiched shall use 4 staples per s.y. of material. This equates to 200 staples with stiched blanket and 400 staples with non-stiched blanket per 100 s.y. of material.
2. Staple or push pin lengths shall be selected based on soil type and conditions. (minimum staple length is 6")
3. Erosion control material shall be placed in contact with the soil over a prepared seedbed.
4. All anchor slots shall be stapled at approximately 12" intervals.

1	JR	11/06	10/07 Revised

EROSION CONTROL BLANKET INSTALLATION DETAILS

Designed ____ Date ____
Drawn S. JOHNSTON 11/06
Checked ____
Approved ____

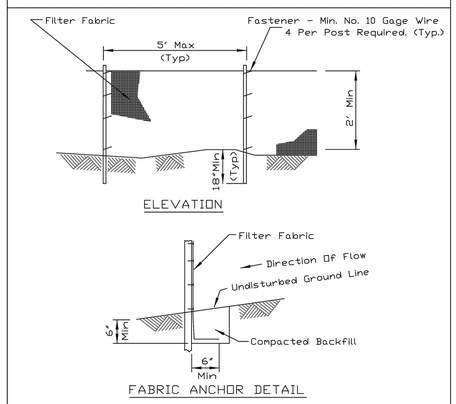
ROLLED EROSION CONTROL PRODUCTS



REFERENCE
Project
Designed Date
Checked Date
Approved Date

STANDARD DWG. NO. IUM-514
SHEET 1 OF 1
DATE 8-19-11

SILT FENCE PLAN

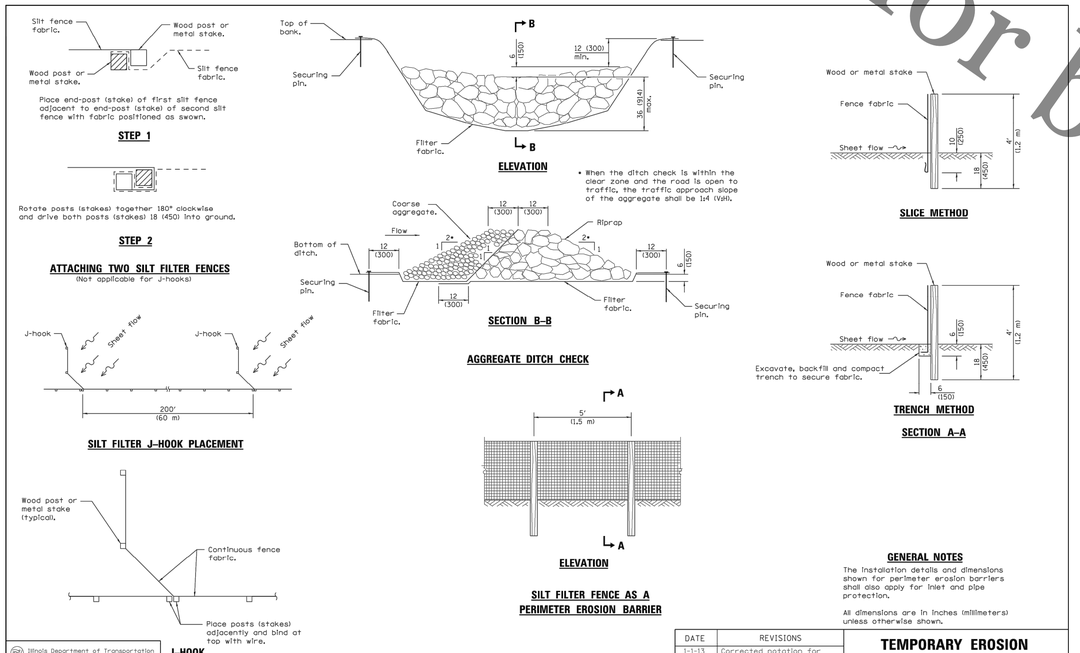


NOTES:

1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class I with equivalent opening size of at least 30 for nonwoven and 40 for woven.
3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

REFERENCE
Project
Designed Date
Checked Date
Approved Date

STANDARD DWG. NO. IUM-620A
SHEET 1 OF 2
DATE 3-16-12



GENERAL NOTES

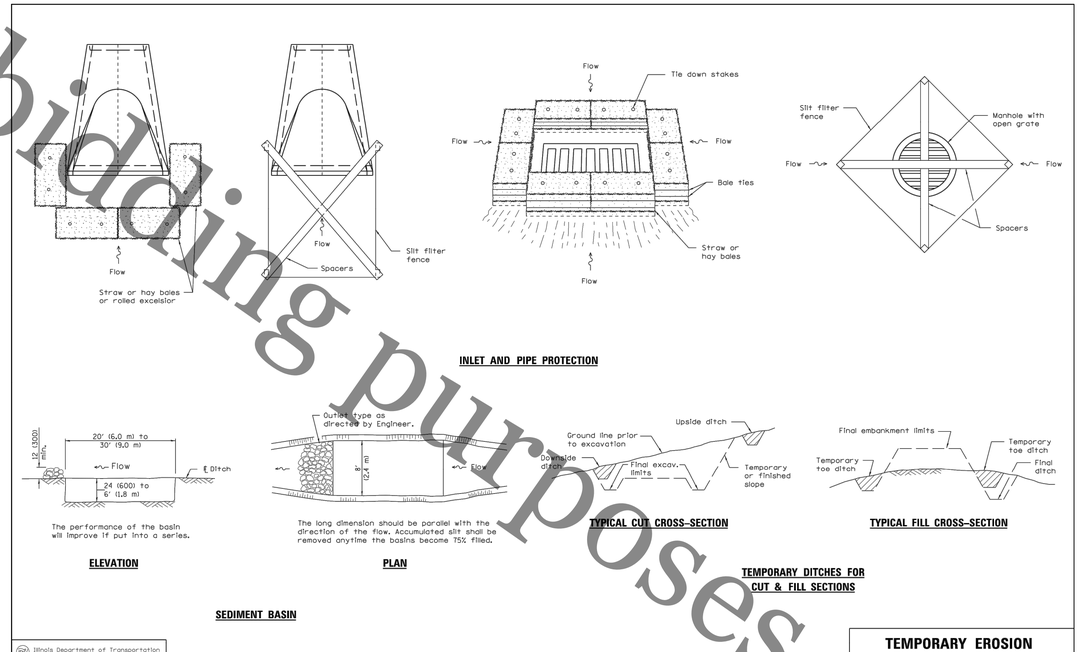
The installation details and dimensions shown for perimeter erosion barriers shall also apply for inlet and pipe protection.

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

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

Illinois Department of Transportation
PASSED January 1, 2013
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2013
ENGINEER OF DESIGN AND ENVIRONMENT
BDM(BD) 14-01

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
BDM(BD) 14-01

TEMPORARY EROSION CONTROL SYSTEMS
(Sheet 2 of 2)
STANDARD 280001-07

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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.

SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135

TEMPORARY EROSION CONTROL DETAILS

FOR BID

Date 7/1/2020

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SEE SHEET 9

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RECLAMATION DISTRICT
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(815) 387-7660

No.	DATE	REVISION	INT.

SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135

TEMPORARY EROSION CONTROL STA 100+00.00 TO STA 109+00.00

FOR BID

Sheet No.
8 OF 34

Date
7/1/2020

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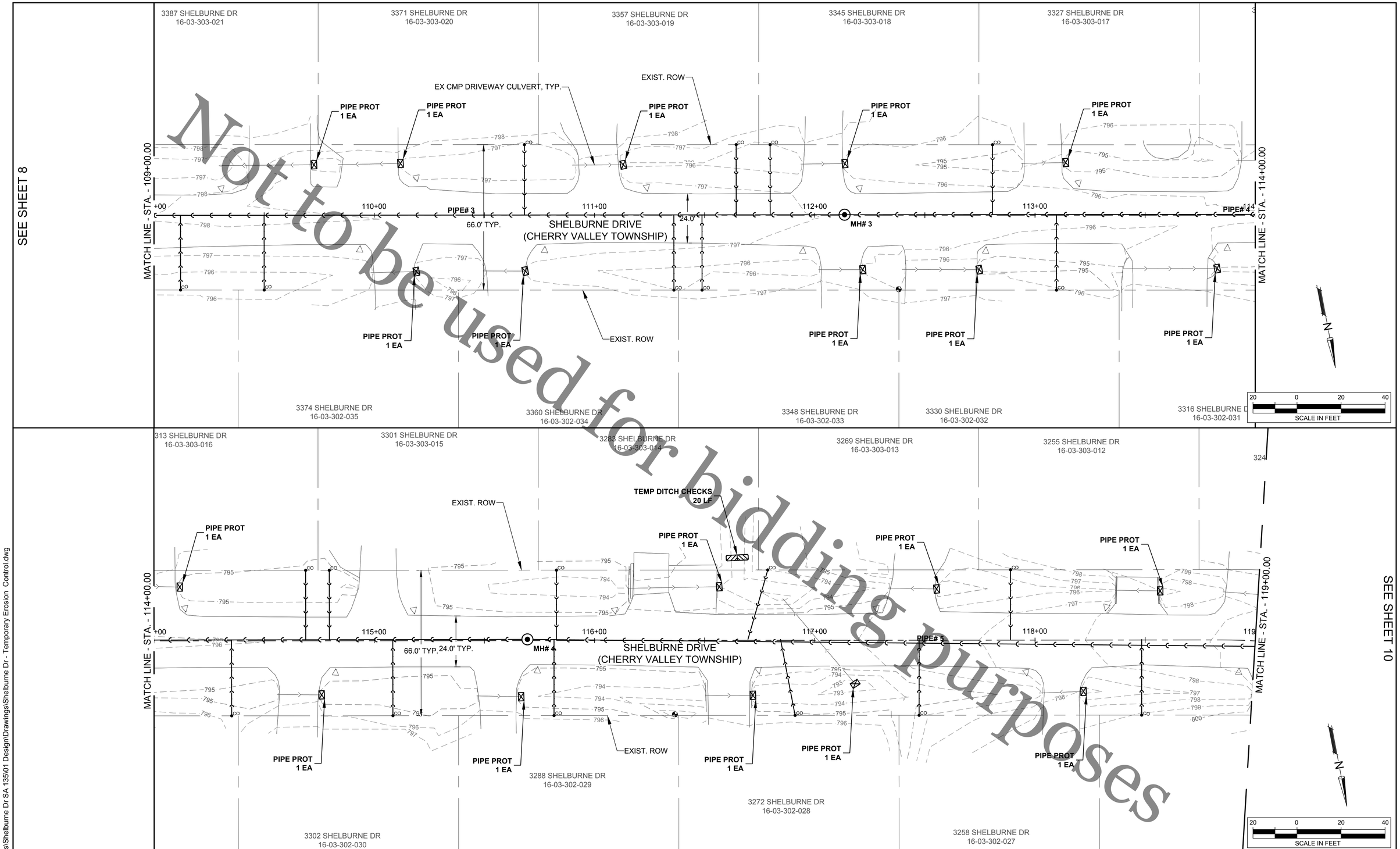

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SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135

TEMPORARY EROSION CONTROL STA 109+00.00 TO STA 119+00.00

FOR BID

Sheet No.
9 OF 34

Date
7/1/2020

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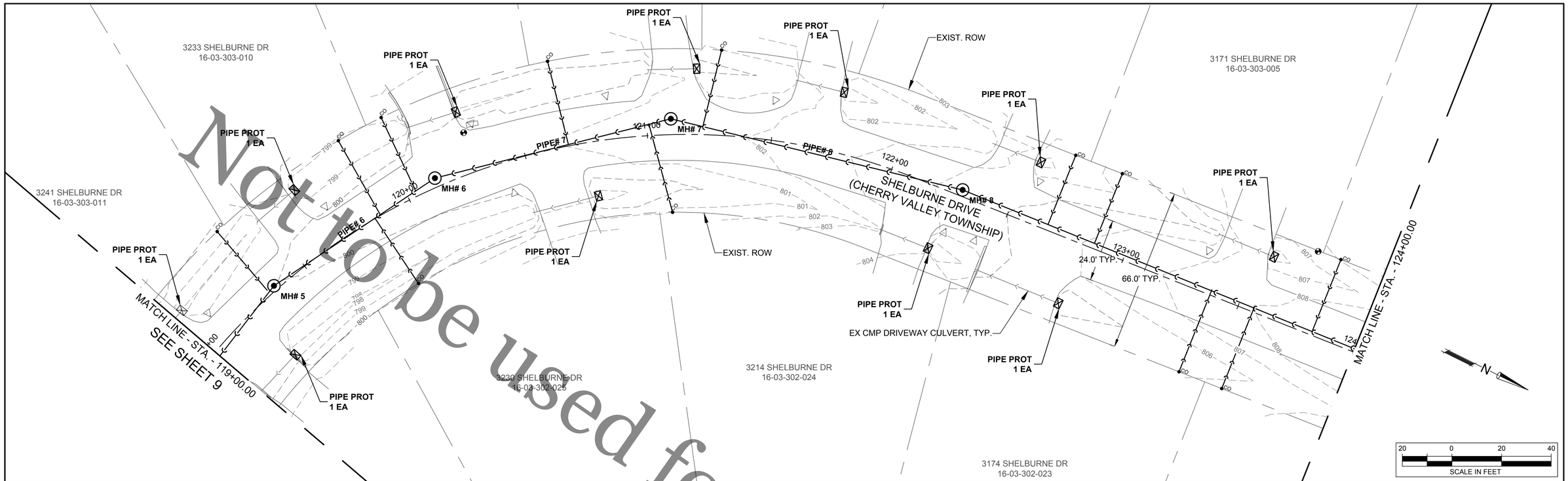

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S.W.P.P.P. NOTES

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. THE CONTRACTOR SHALL INSTALL A SWPPP MAILBOX IN AN ACCESSIBLE LOCATION ONSITE THAT SHALL CONTAIN THE SWPPP 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

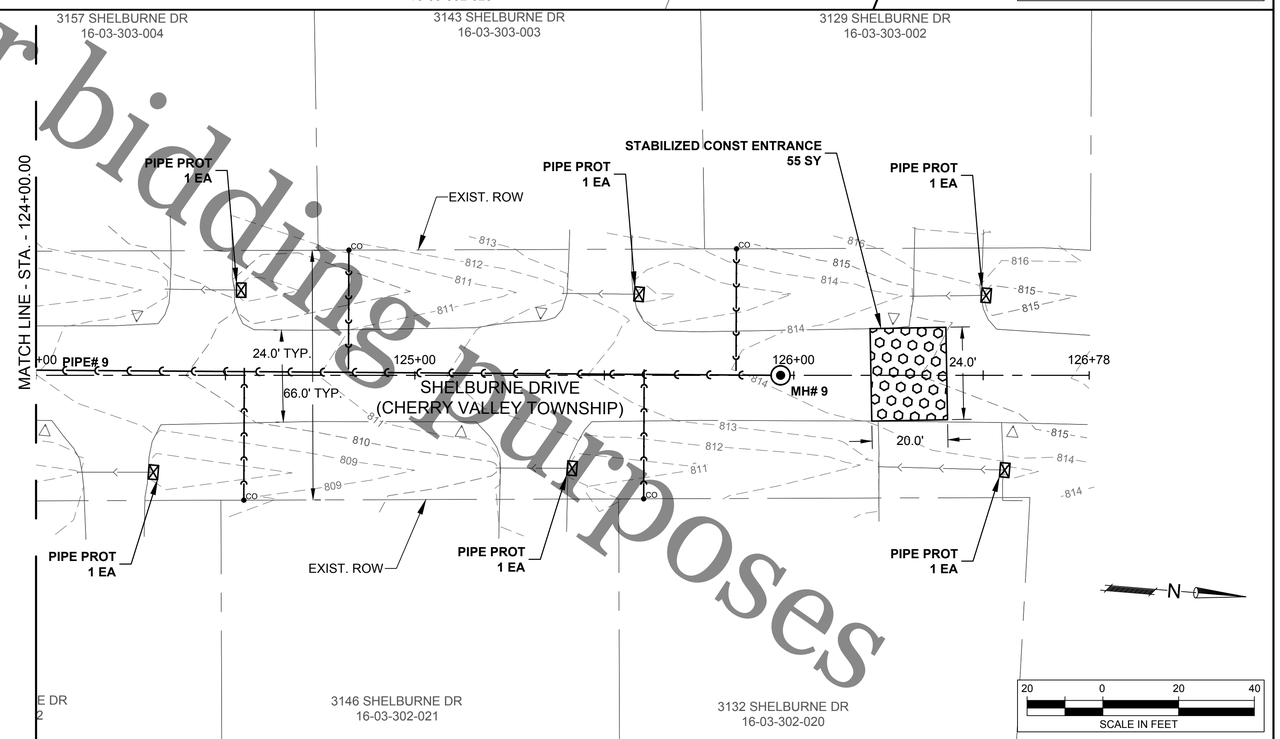
INSPECTIONS MUST BE COMPLETED BY A QUALIFIED PERSON EVERY 7 DAYS AND WITHIN 24 HOURS OF EACH RAIN EVENT WITH OVER 0.5" OF RAIN OR SNOWFALL EQUIVALENT. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REPAIRED AND MODIFIED AS NEEDED TO BE EFFECTIVE AND TO PREVENT EROSION AND POLLUTANTS FROM DISCHARGING 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.



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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.

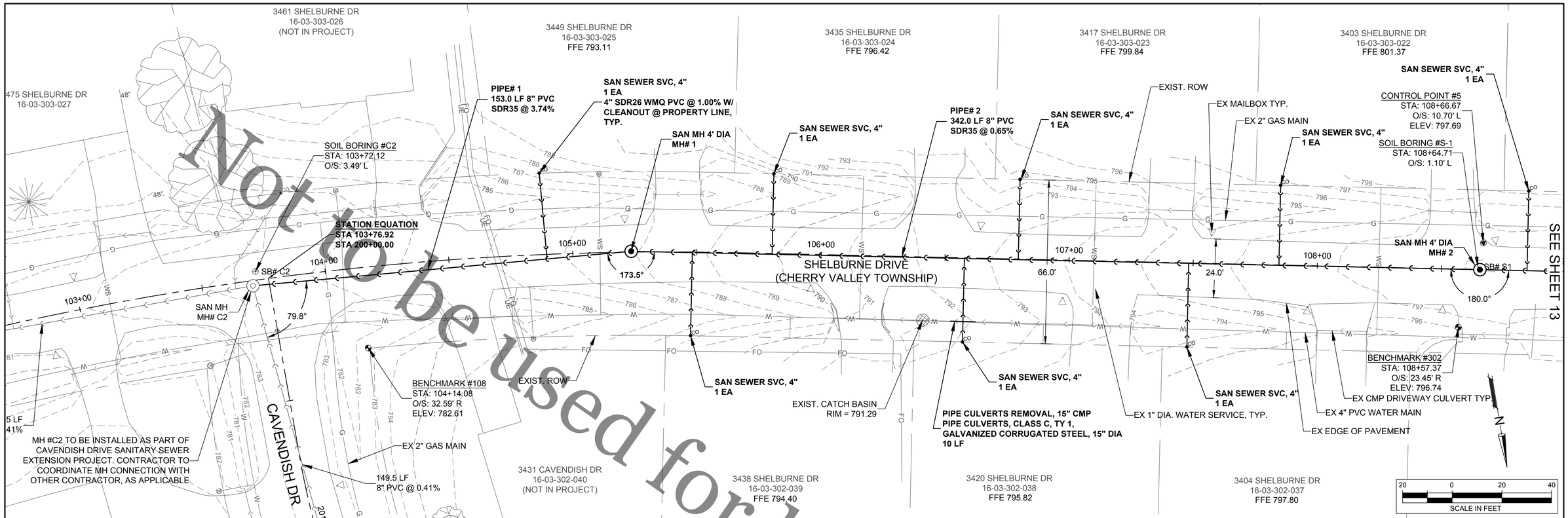
SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135

TEMPORARY EROSION CONTROL STA 119+00.00 TO STA 126+78.00

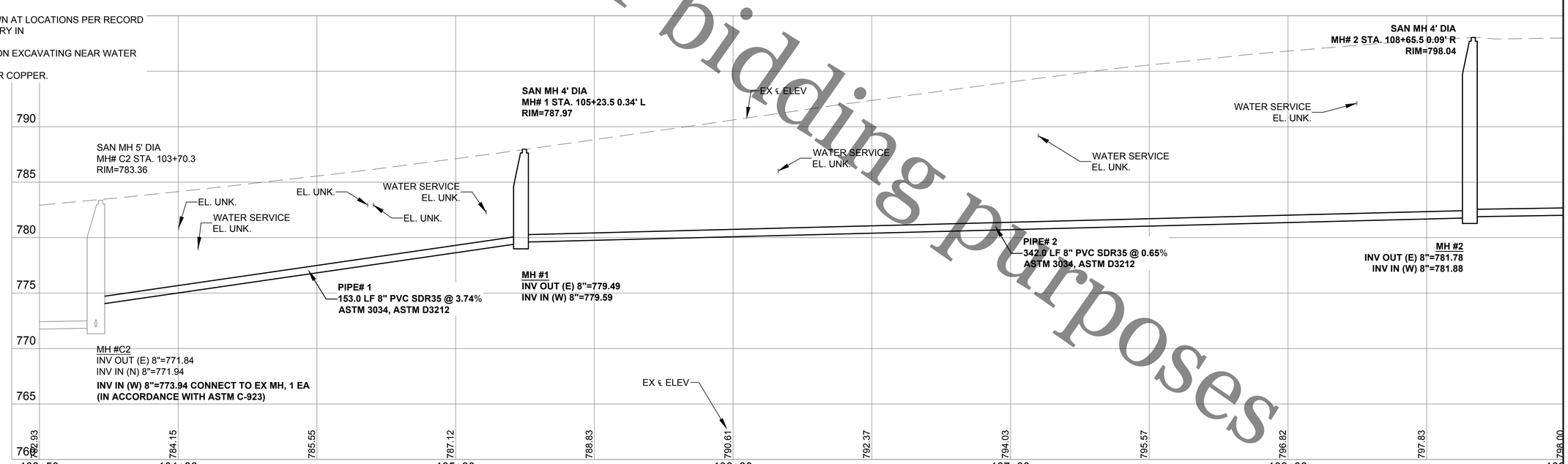
FOR BID

Sheet No. 10 OF 34

Date 7/1/2020



NOTES:
WATER SERVICES
1. ALL WATER SERVICES ARE SHOWN AT LOCATIONS PER RECORD DRAWINGS & LOCATIONS MAY VARY IN FIELD.
2. CONTRACTOR SHALL USE CAUTION EXCAVATING NEAR WATER SERVICES.
3. SERVICES ARE 1" DIA. PLASTIC OR COPPER.



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RECLAMATION DISTRICT
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No.	DATE	REVISION	INT.

SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135

SANITARY SEWER PLAN & PROFILE STA.103+50.00 TO STA. 109+00.00

FOR BID

Sheet No.
12 OF 34

Date
7/1/2020

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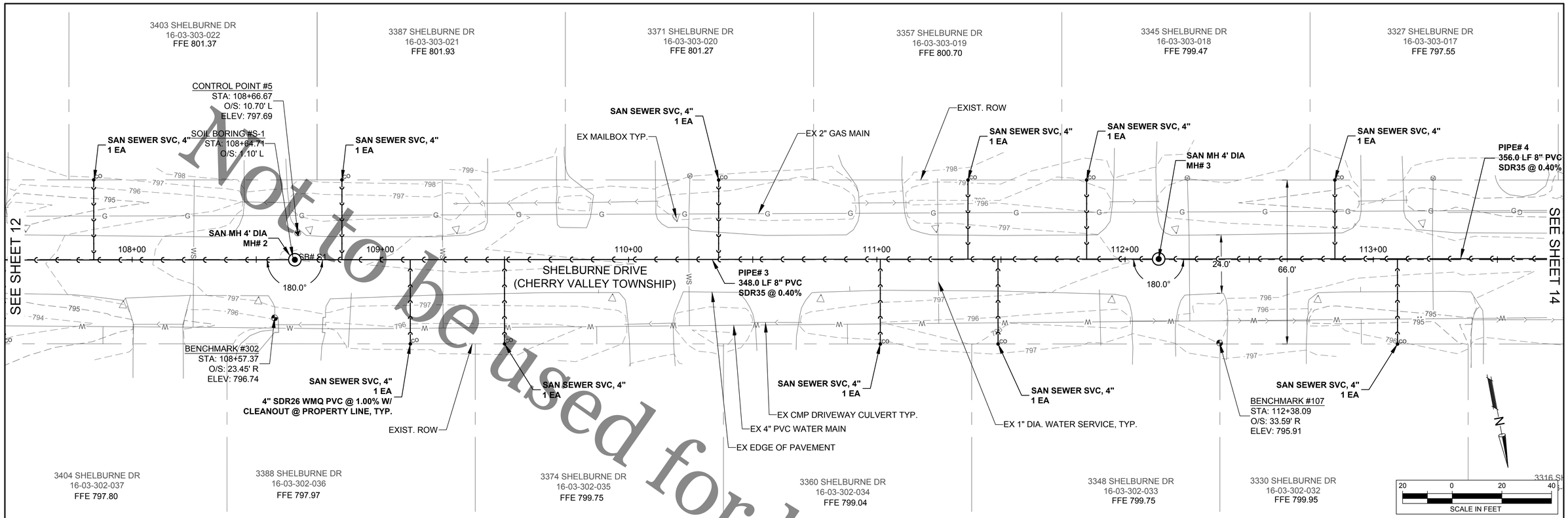

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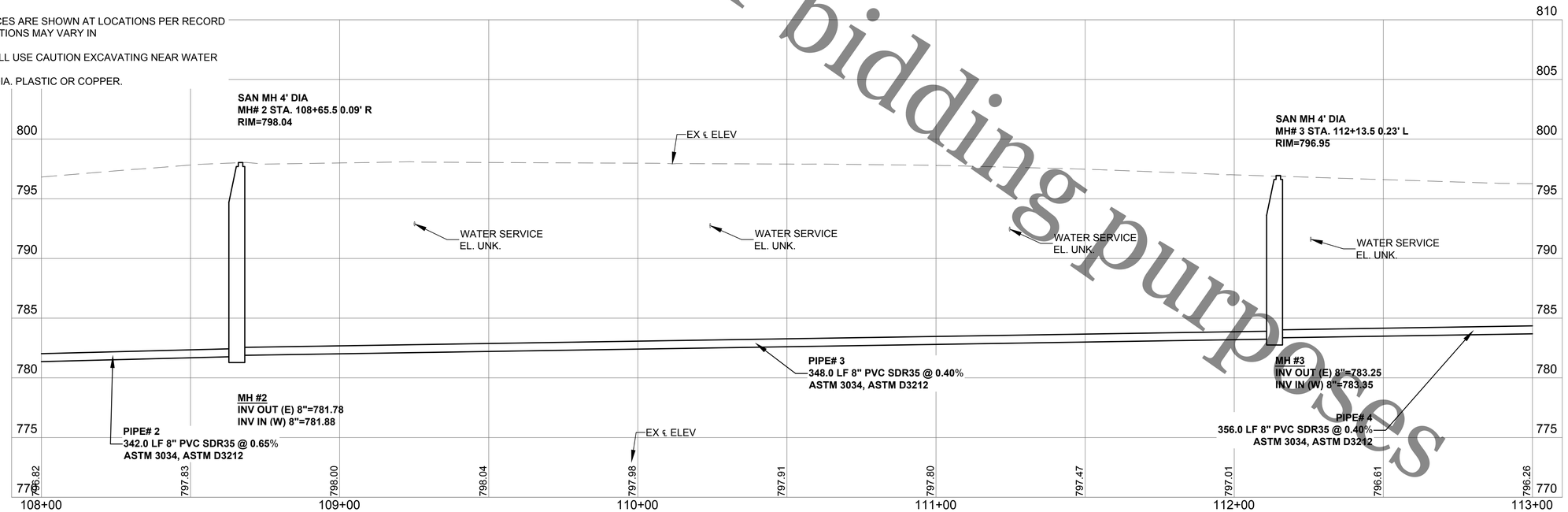

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SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135

SANITARY SEWER PLAN & PROFILE STA.108+00.00 TO STA. 113+00.00

FOR BID

Sheet No. 13 OF 34

Date 7/1/2020

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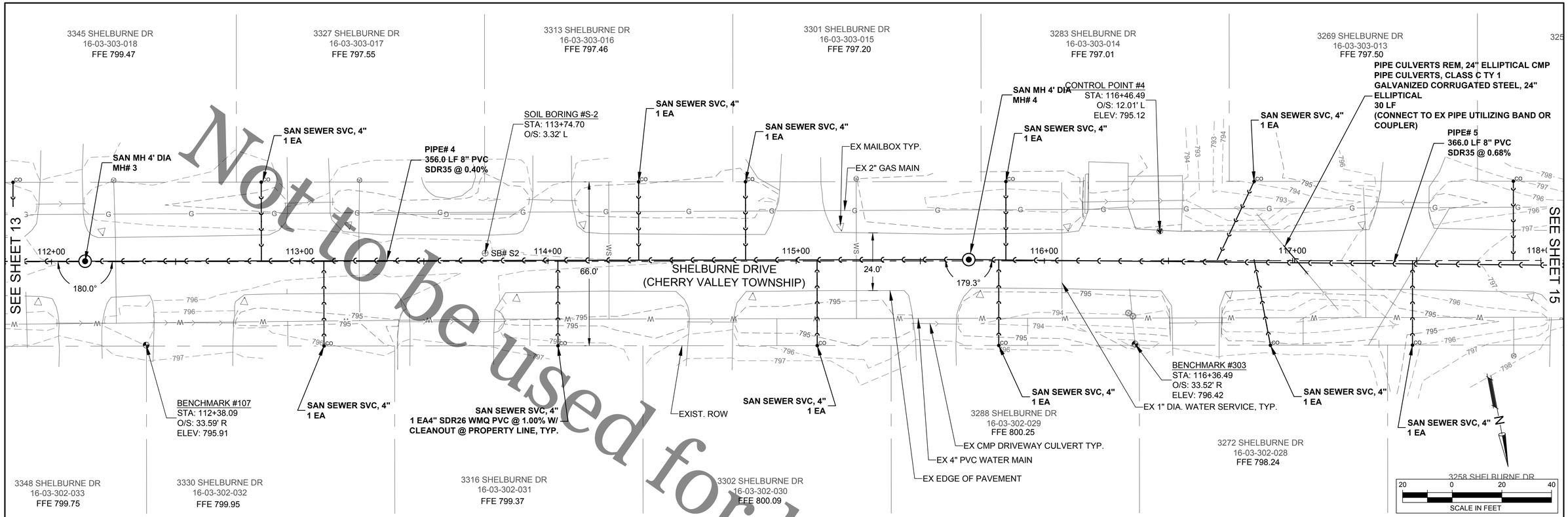

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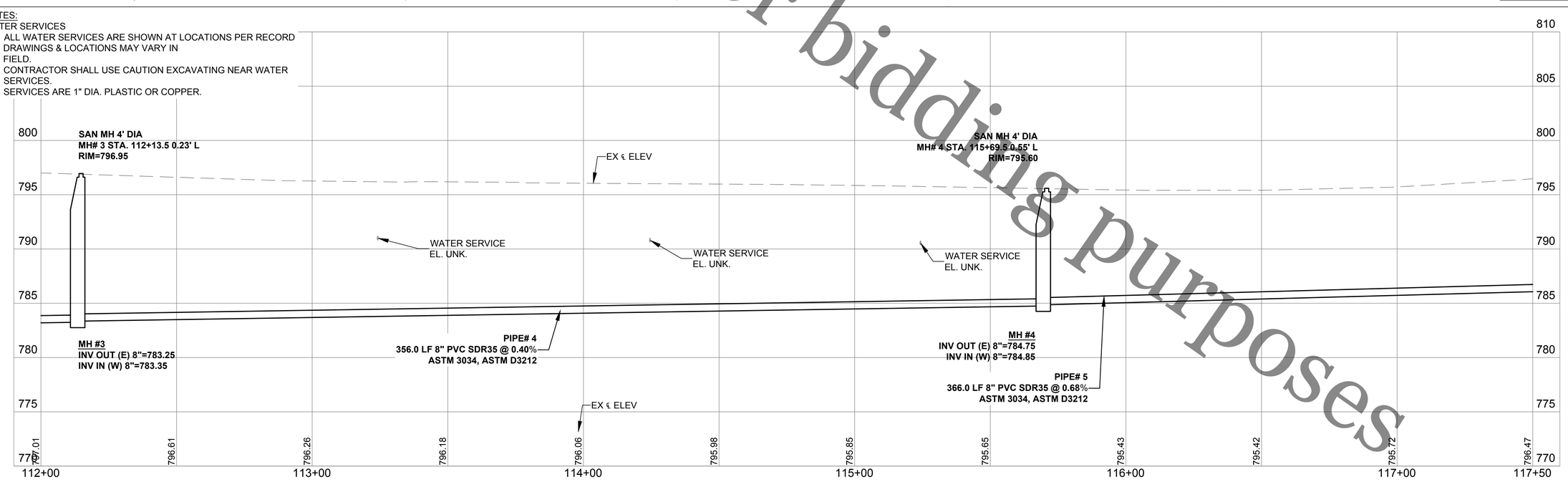

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No.	DATE	REVISION	INT.

SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135

SANITARY SEWER PLAN & PROFILE STA.112+00.00 TO STA. 116+00.00

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Sheet No. 14 OF 34

Date 7/1/2020

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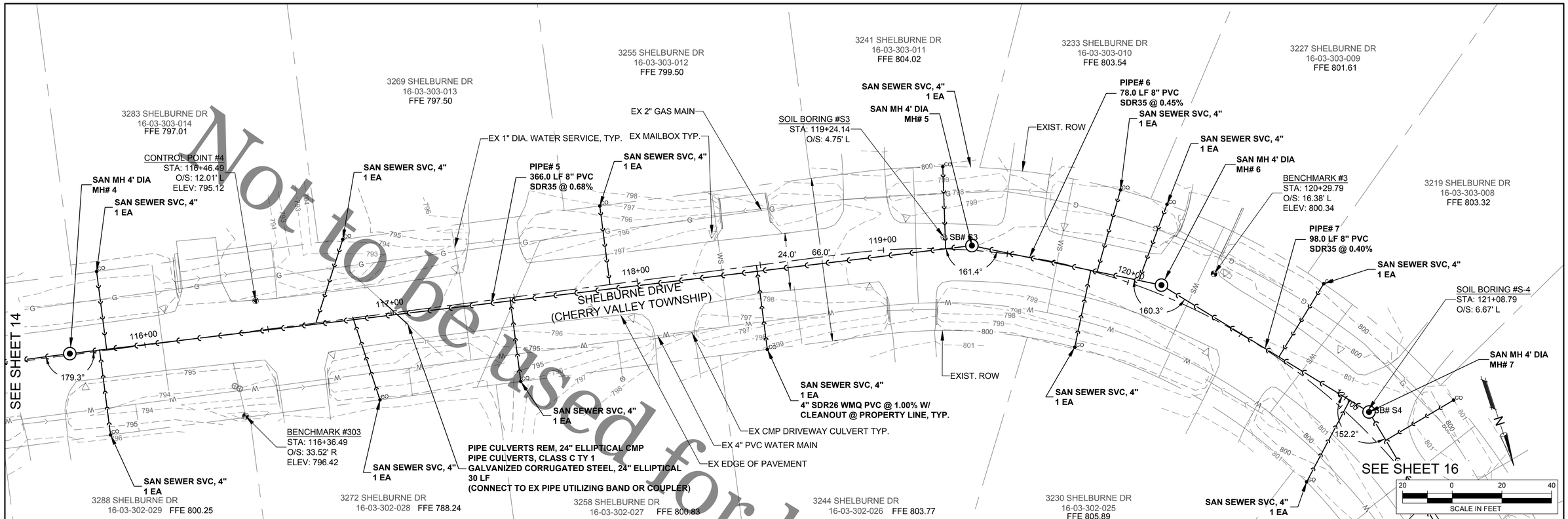

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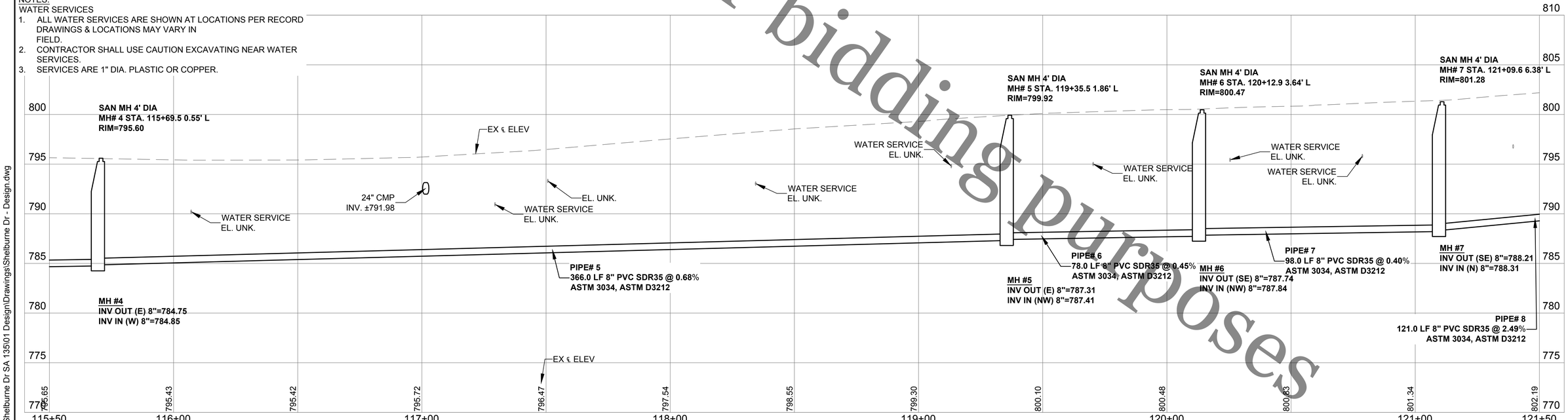

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No.	DATE	REVISION	INT.

SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135

SANITARY SEWER PLAN & PROFILE STA.115+50.00 TO STA. 121+50.00

FOR BID

Sheet No. 15 OF 34

Date 7/1/2020

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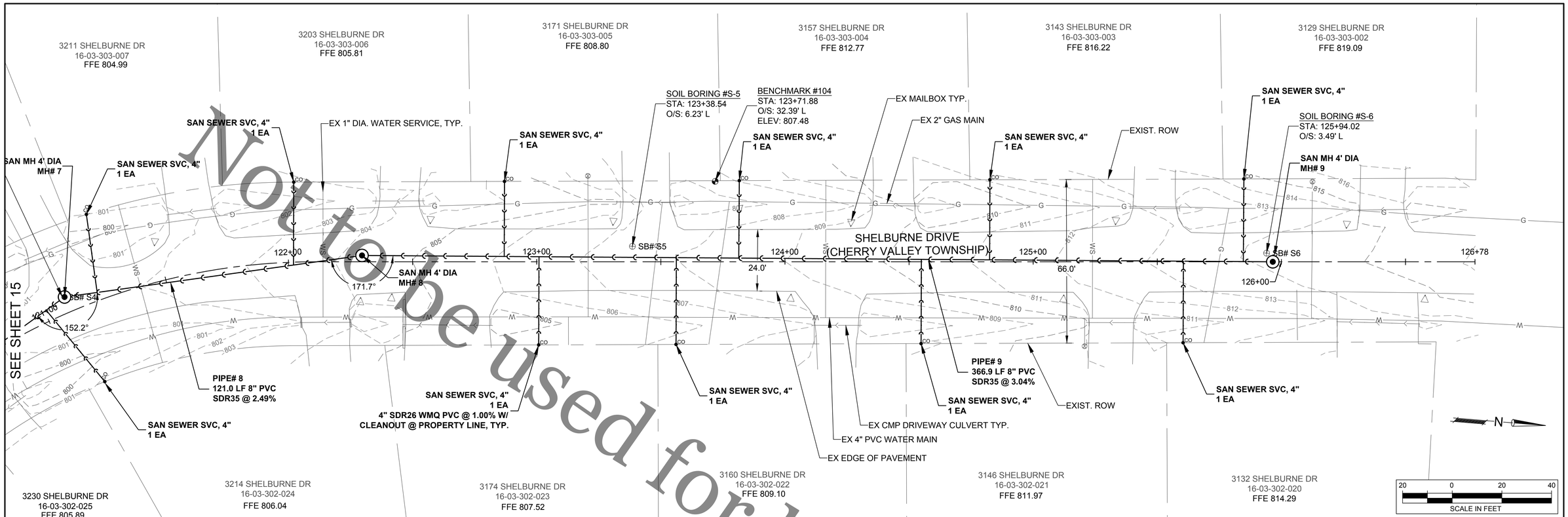

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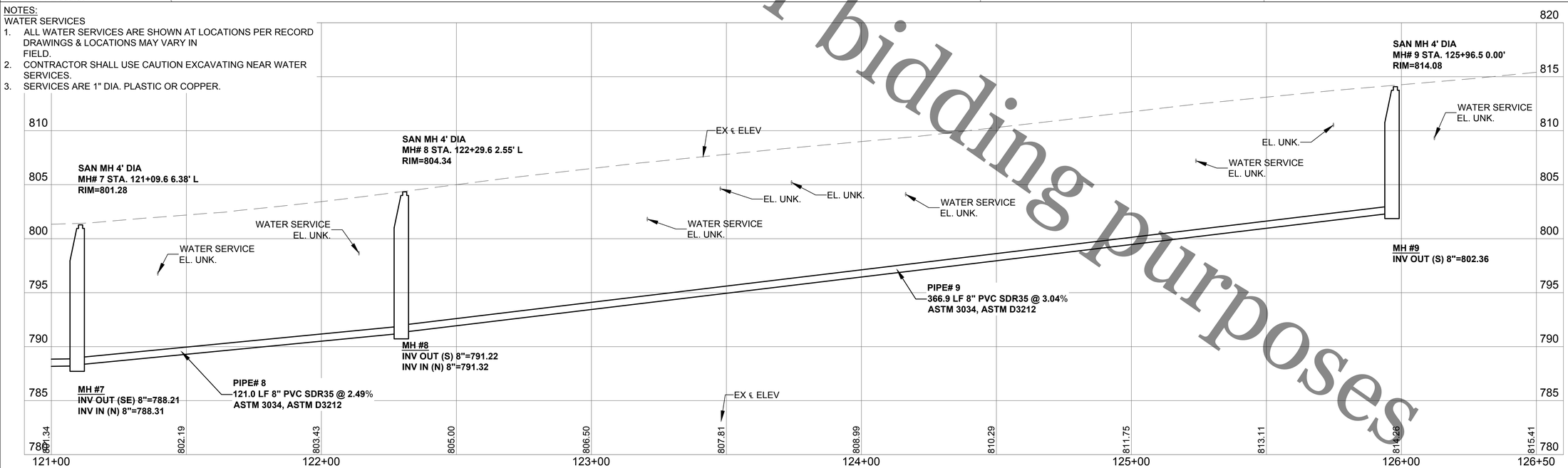

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SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135

SANITARY SEWER PLAN & PROFILE STA.121+00.00 TO STA. 126+50.00

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Sheet No. 16 OF 34

Date 7/1/2020

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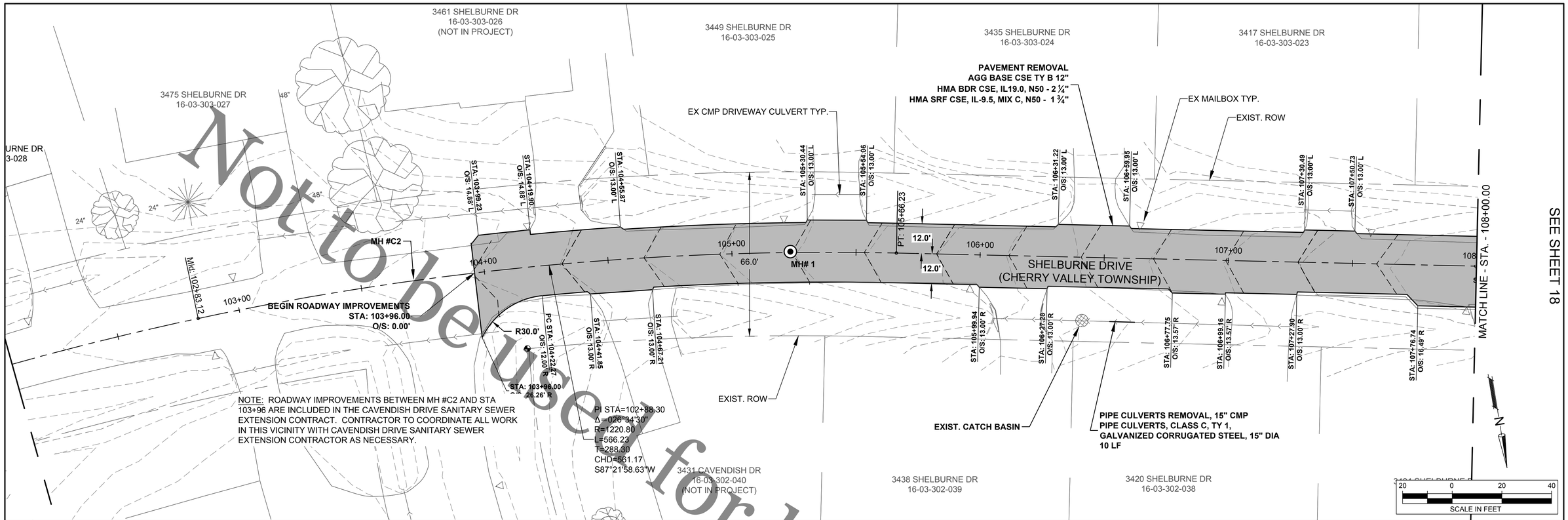

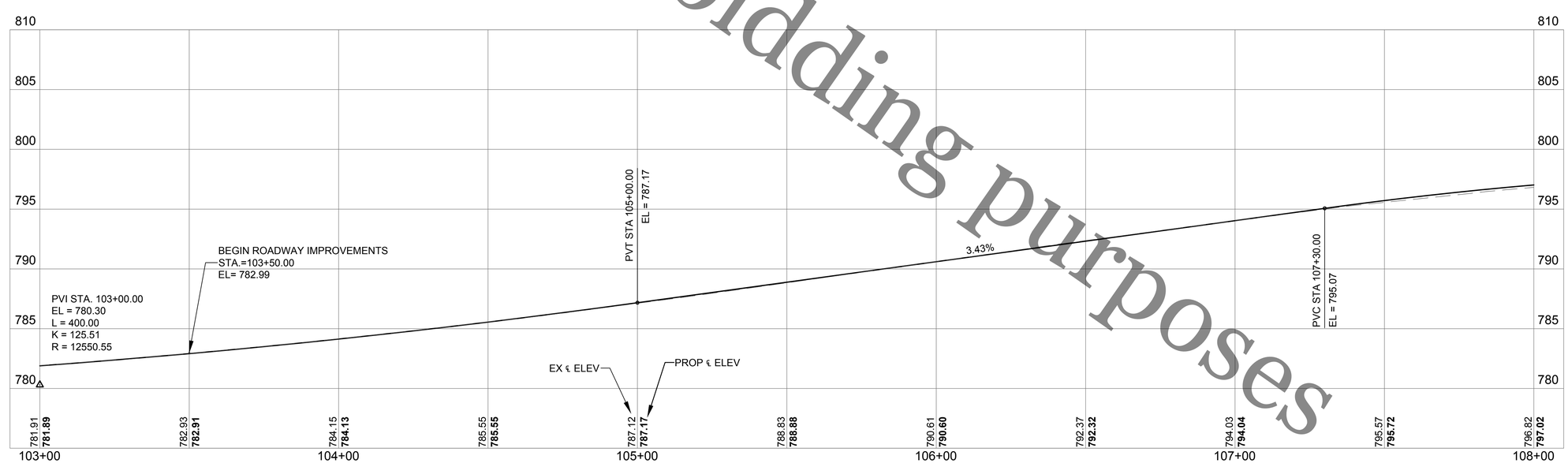

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SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135

ROADWAY IMPROVEMENTS STA 103+00.00 TO STA 108+00.00

FOR BID

Sheet No. 17 OF 34

Date 7/1/2020

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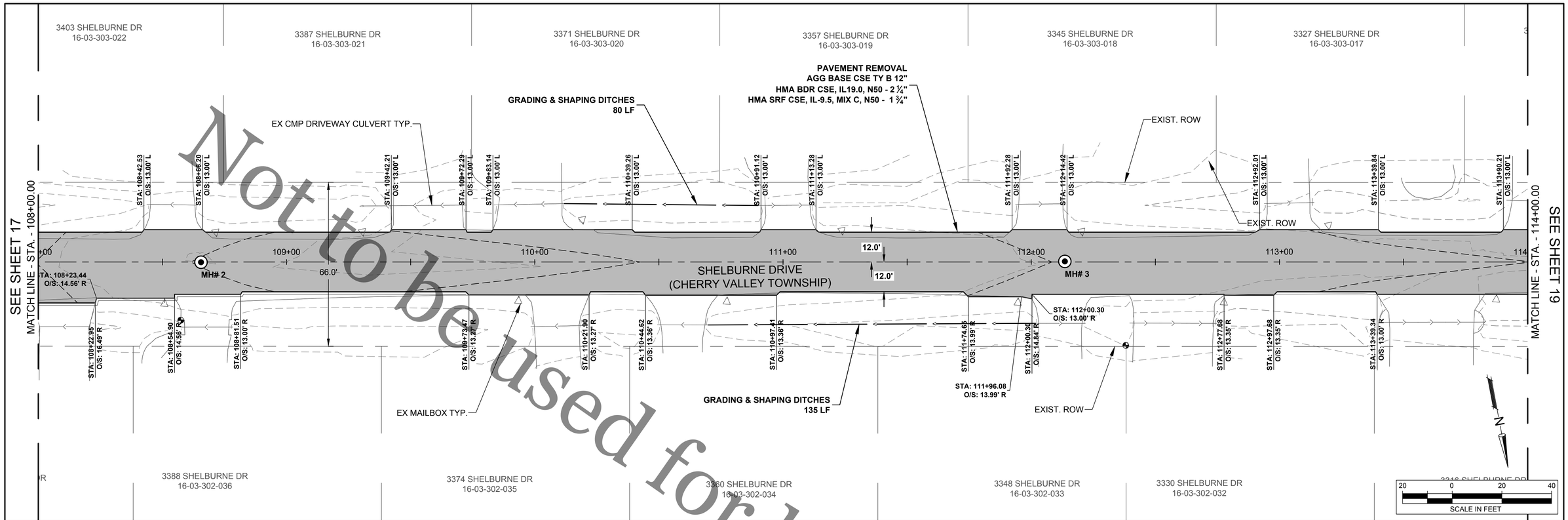

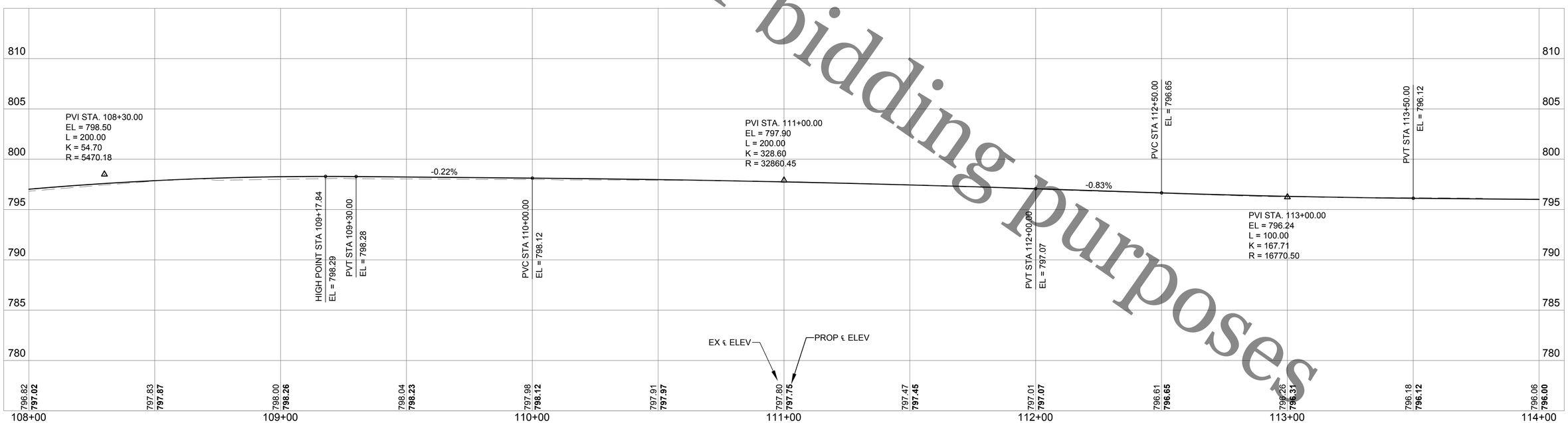

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ROADWAY IMPROVEMENTS STA 108+00.00 TO STA 114+00.00

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Sheet No. 18 OF 34

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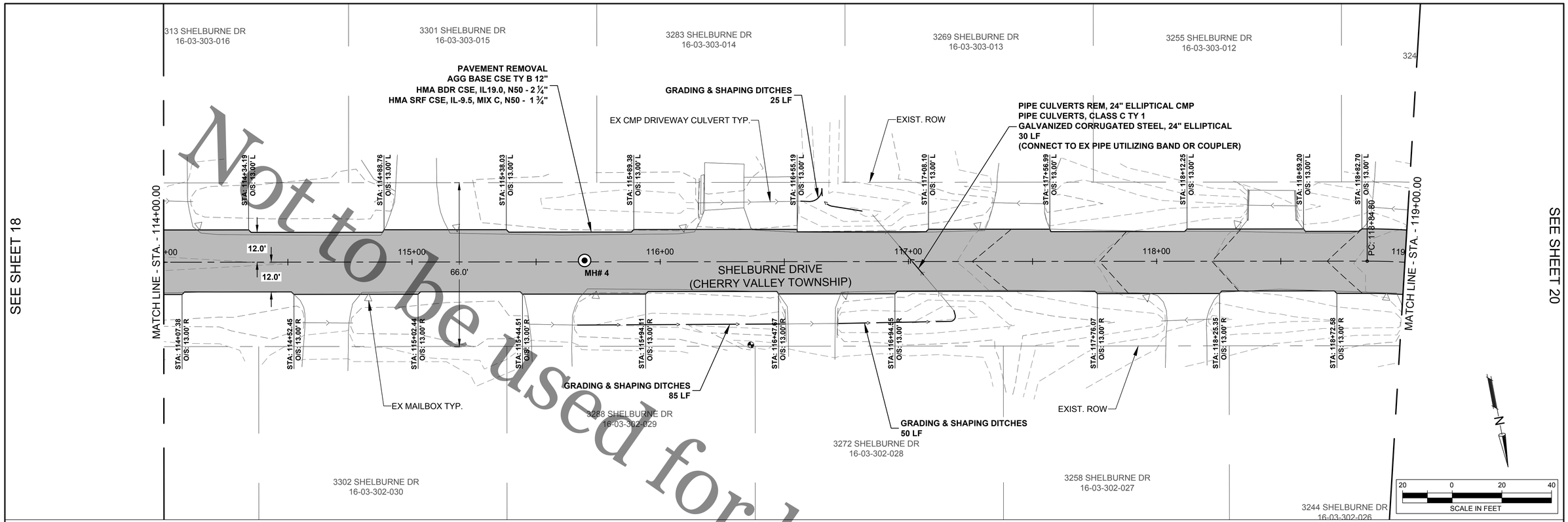

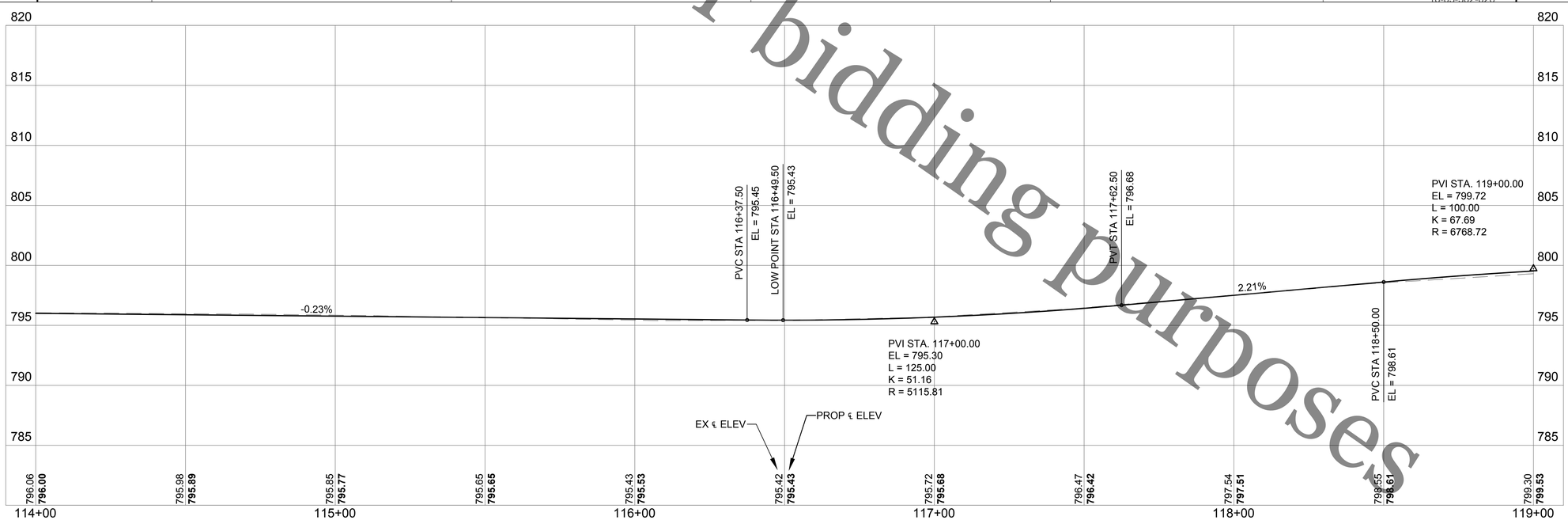

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Rock River Water Reclamation District

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

No.	DATE	REVISION	INT.

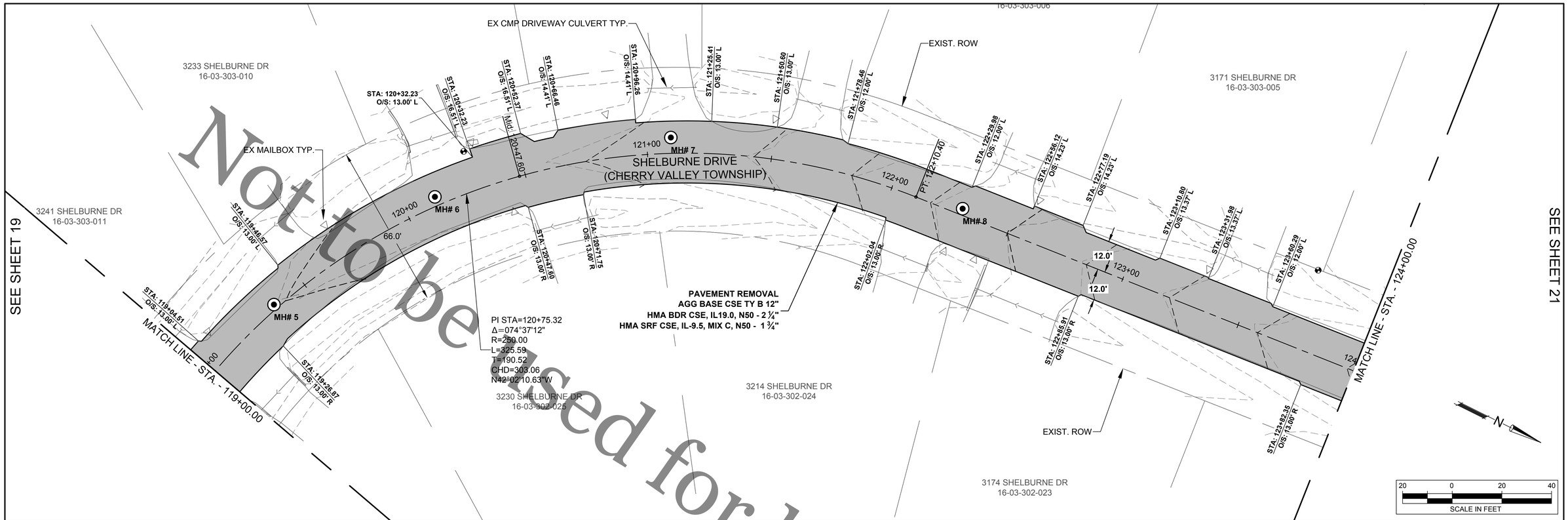
SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135

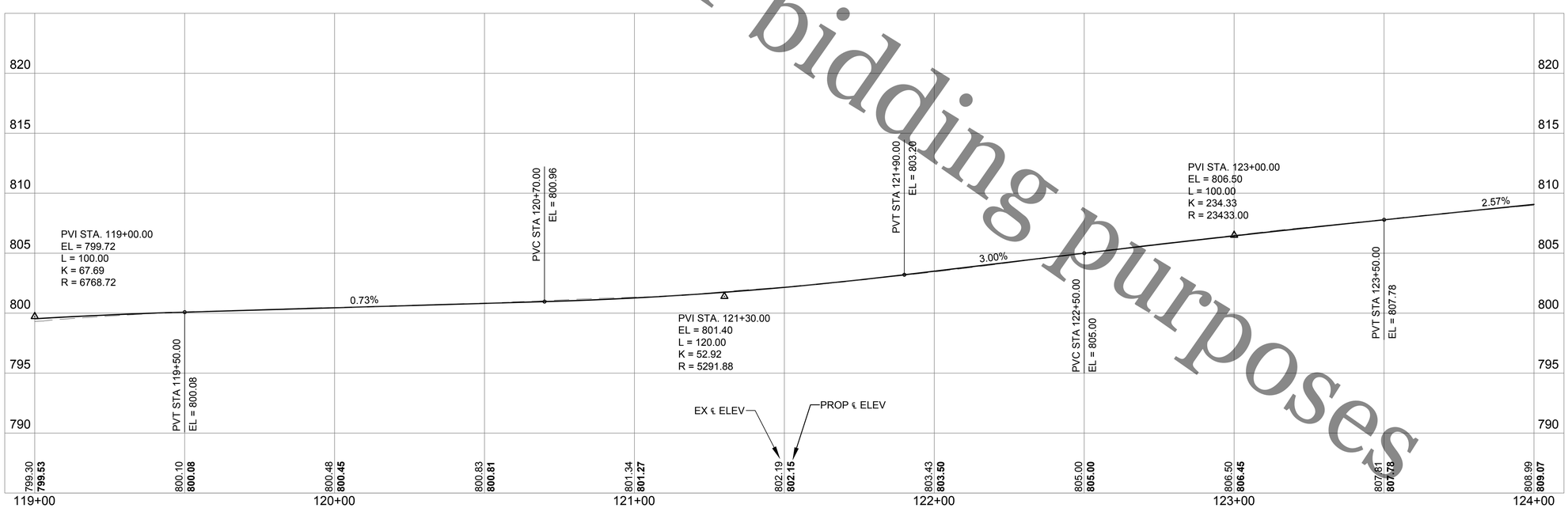
ROADWAY IMPROVEMENTS STA 114+00.00 TO STA 119+00.00

FOR BID

Sheet No.
19 OF 34

Date
7/1/2020





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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.

SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135

ROADWAY IMPROVEMENTS STA 119+00.00 TO STA 124+00.00

FOR BID

Sheet No. 20 OF 34

Date 7/1/2020

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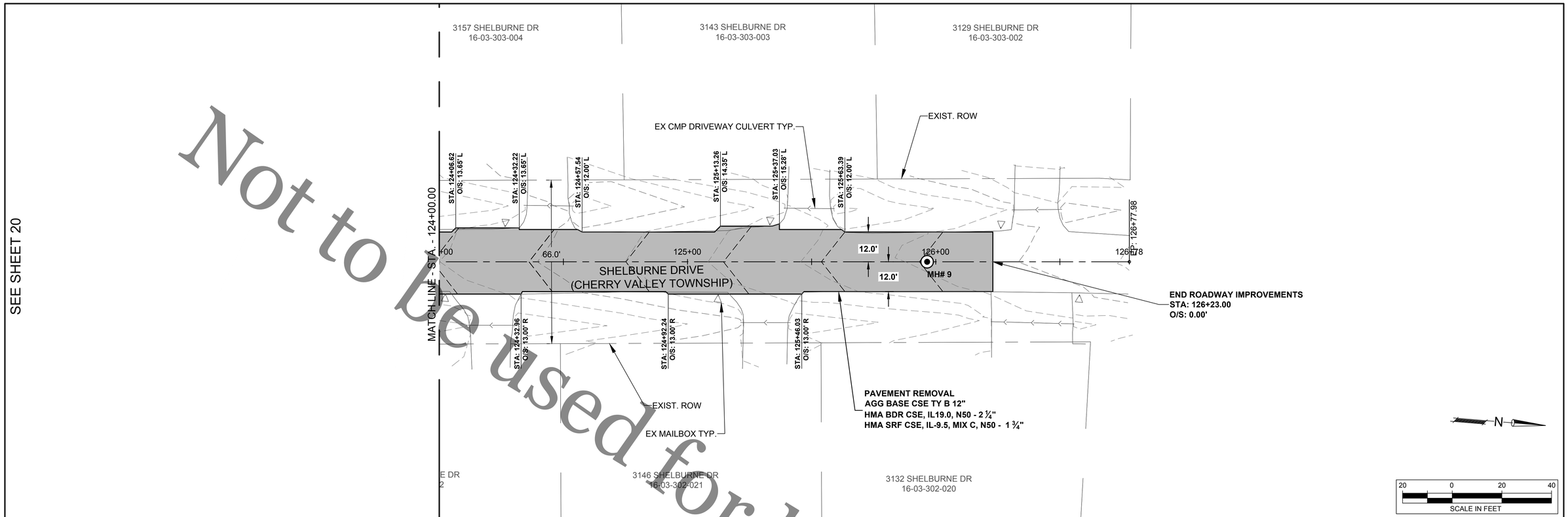
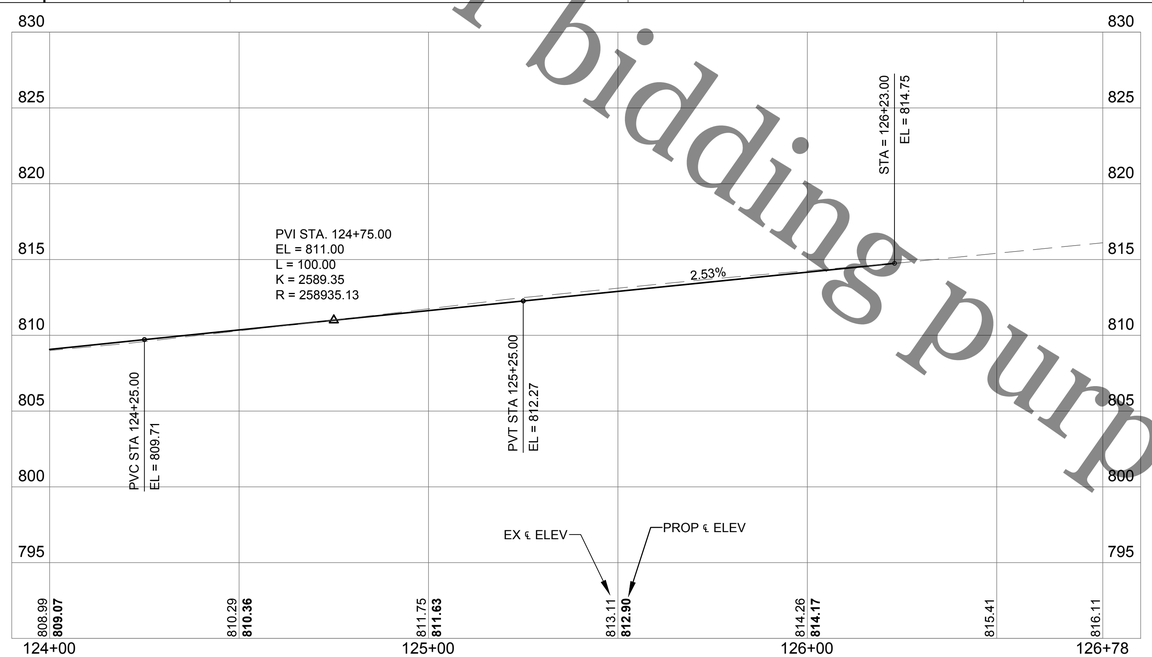


SEE SHEET 20



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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.

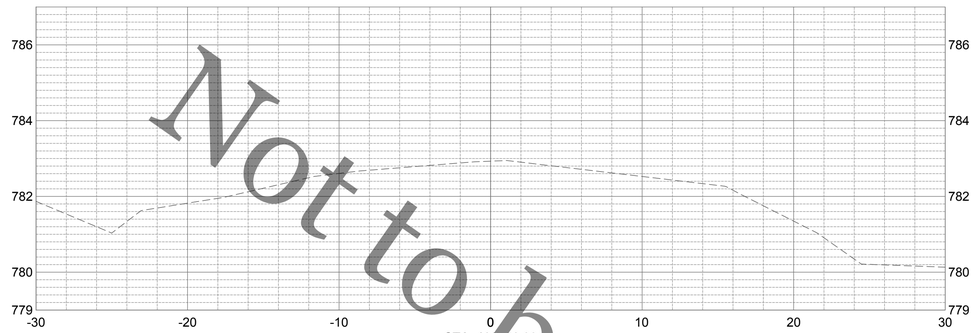
SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135

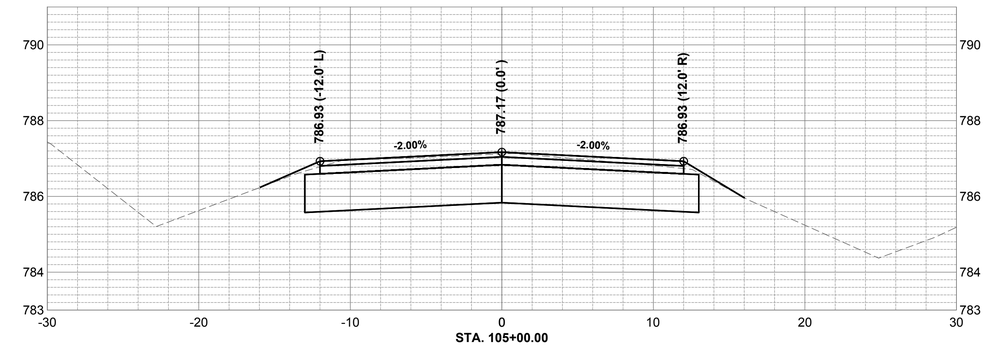
ROADWAY IMPROVEMENTS STA 124+00.00 TO STA 126+77.98

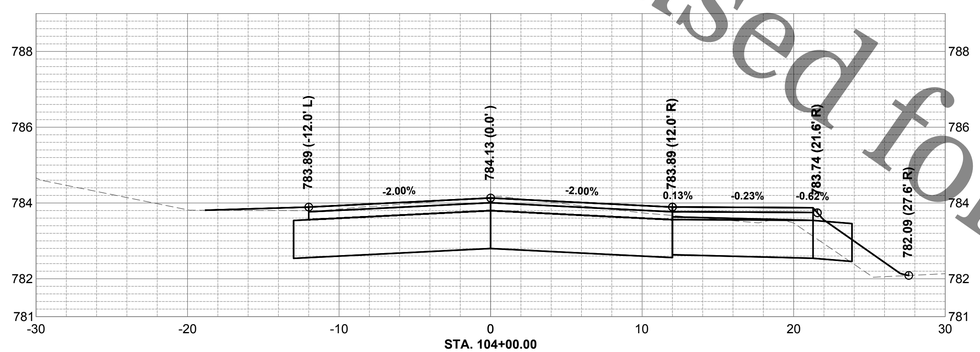
FOR BID

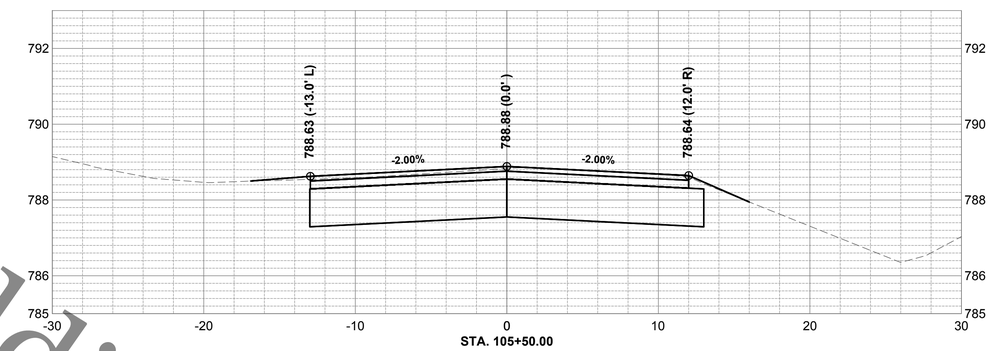
Sheet No.
21 OF 34

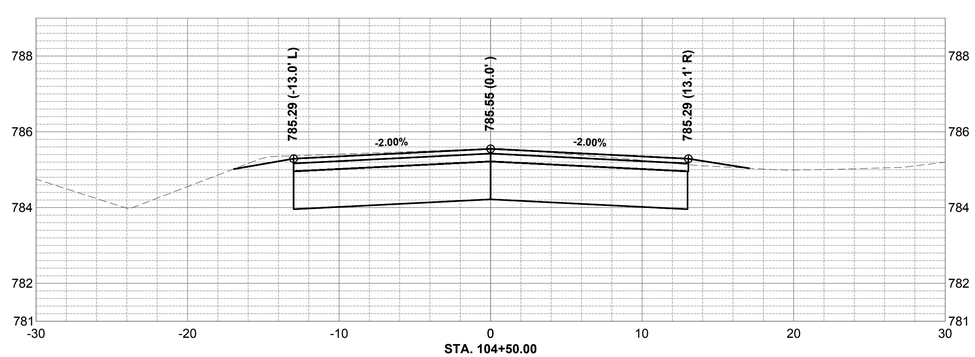
Date
7/1/2020

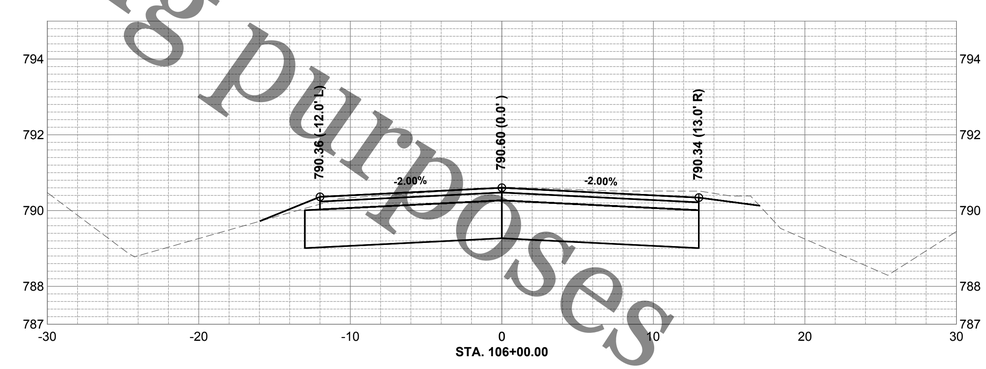












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Rock River Water Reclamation District
ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135

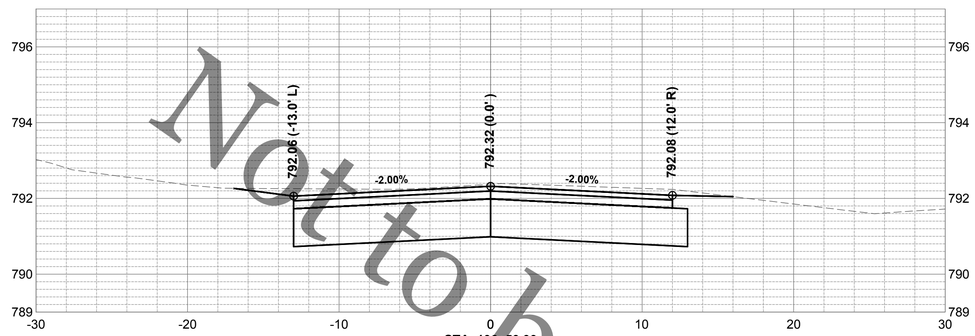
SHELBURNE DRIVE CROSS SECTIONS STA 103+50 TO 106+00

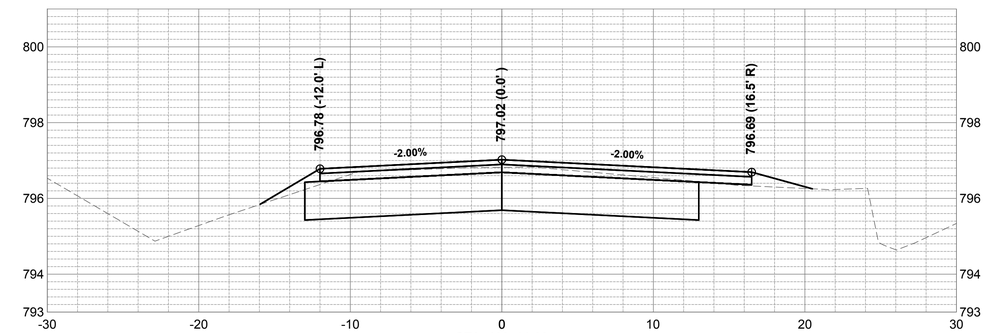
FOR BID

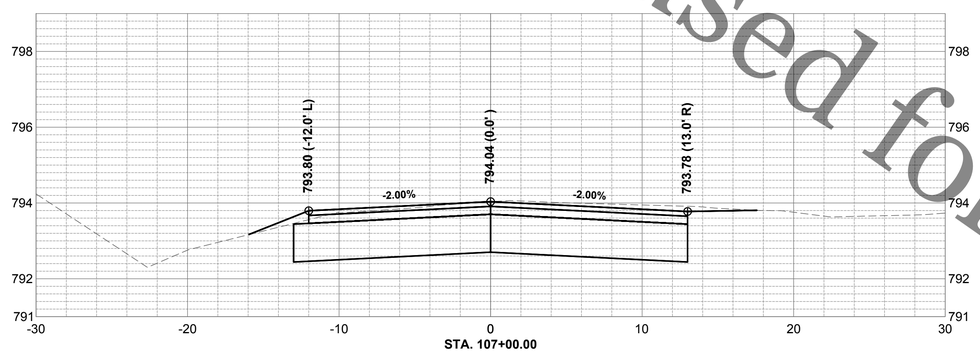
Sheet No. 22 OF 34

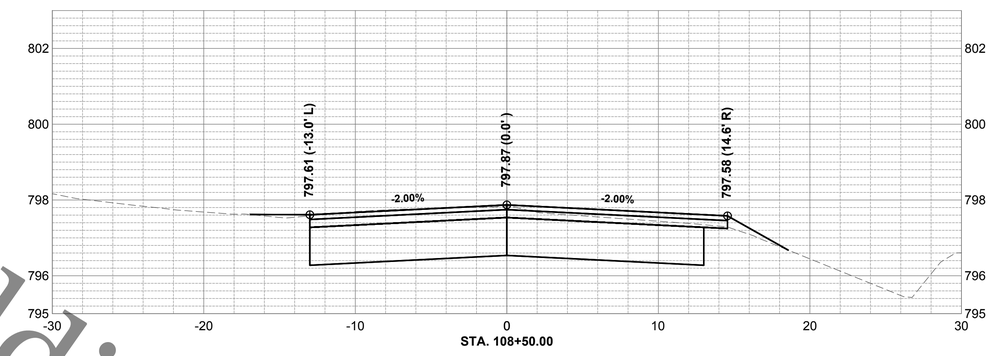
Date 7/1/2020

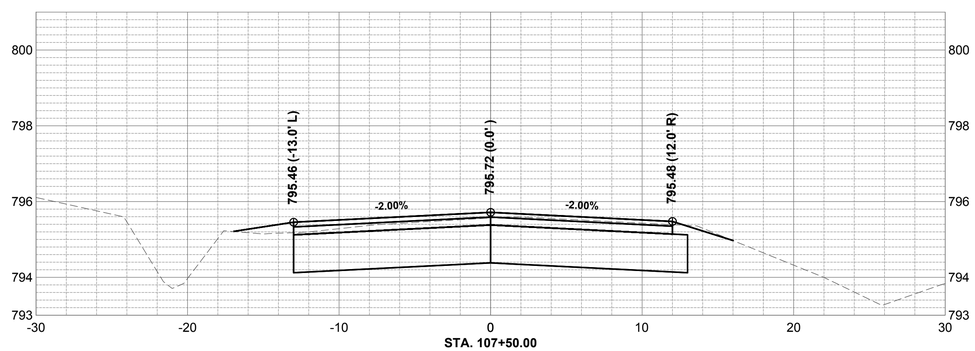
file: I:\District Projects\Shelburne Dr SA 135\01 Design\Drawings\Shelburne Dr - Roadway Sections.dwg

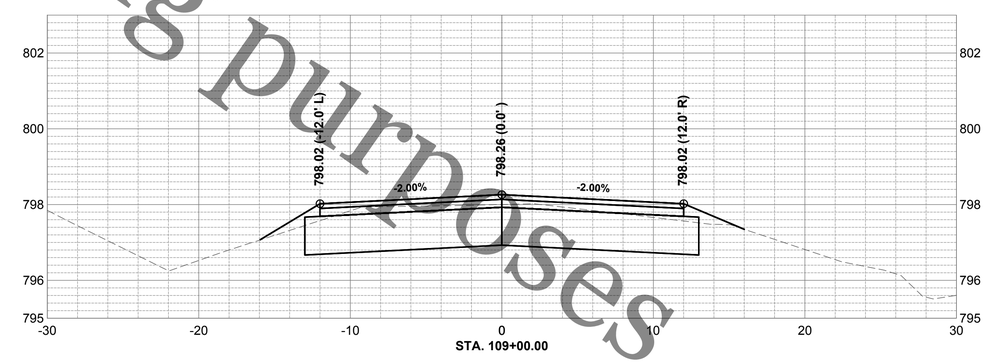












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ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135

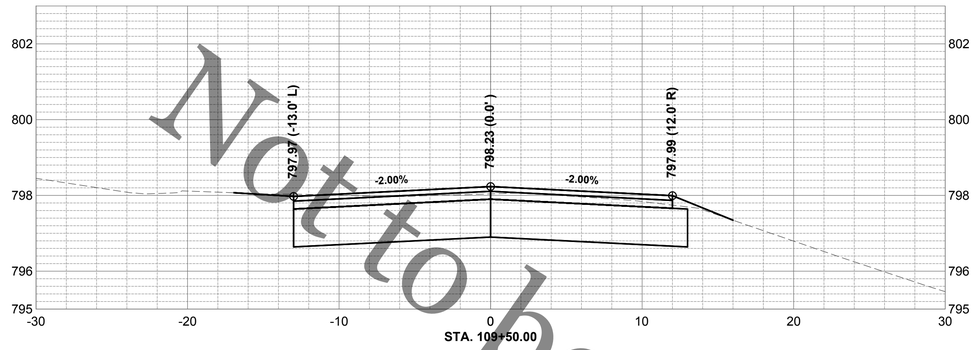
SHELBURNE DRIVE CROSS SECTIONS STA 106+50 TO 109+00

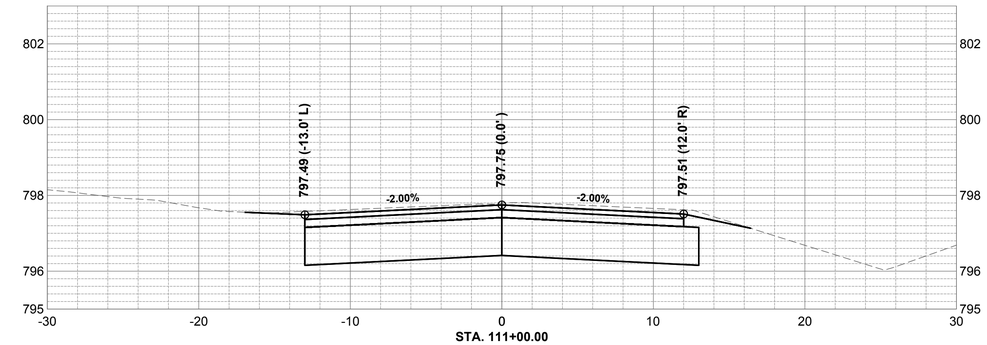
FOR BID

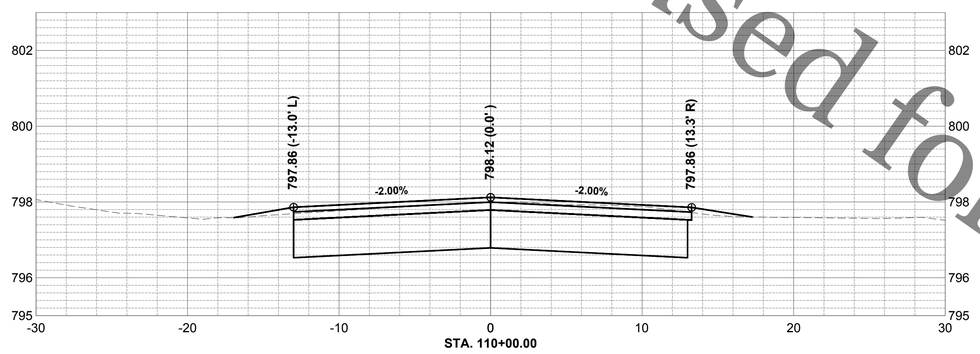
Sheet No.
23 OF 34

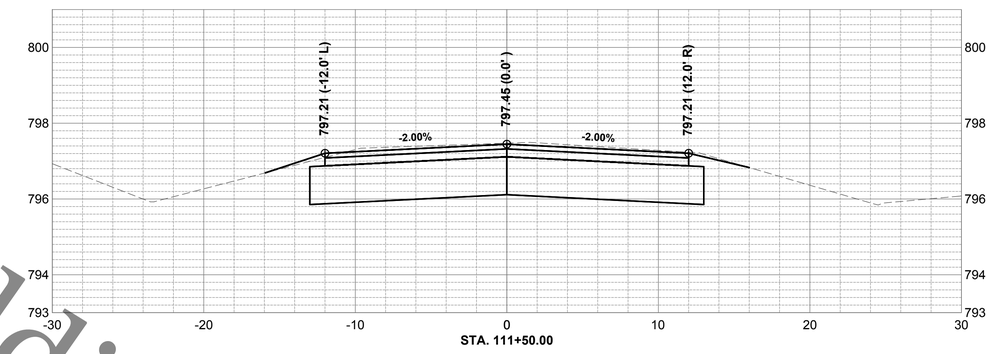
Date
7/1/2020

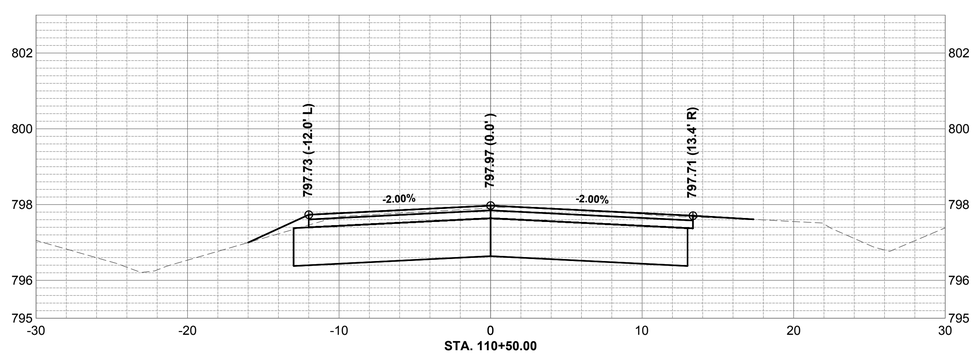
file: I:\District Projects\Shelburne Dr SA 135\01 Design\Drawings\Shelburne Dr - Roadway Sections.dwg

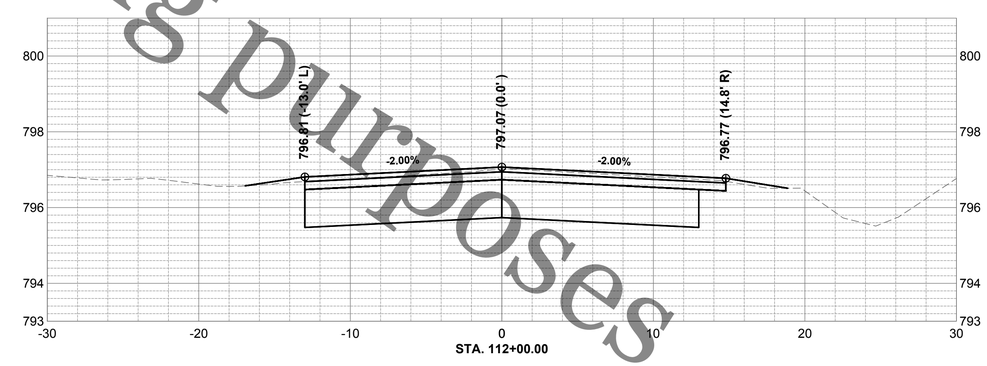












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Rock River Water Reclamation District
ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135

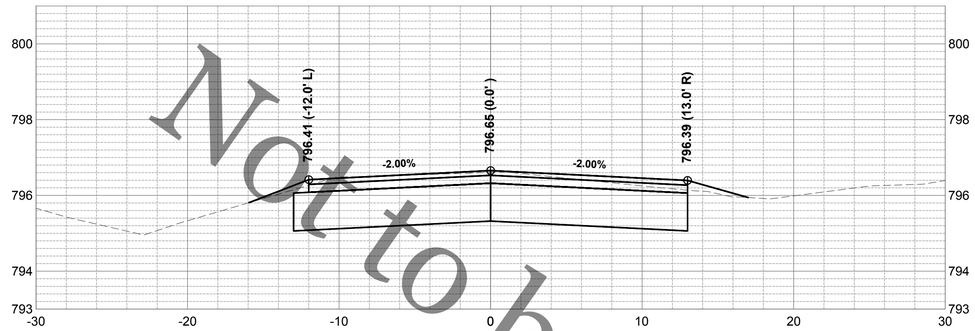
SHELBURNE DRIVE CROSS SECTIONS STA 109+50 TO 112+00

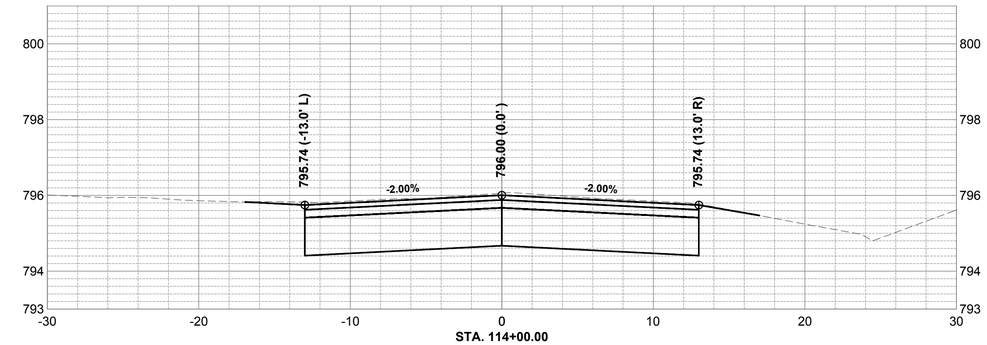
FOR BID

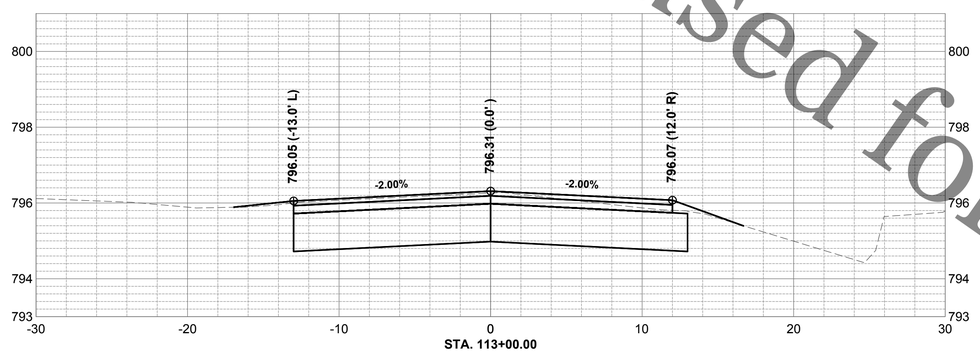
Sheet No. 24 OF 34

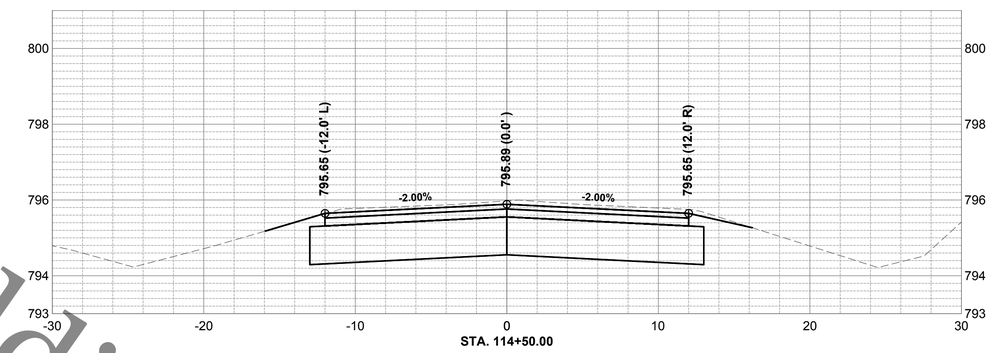
Date 7/1/2020

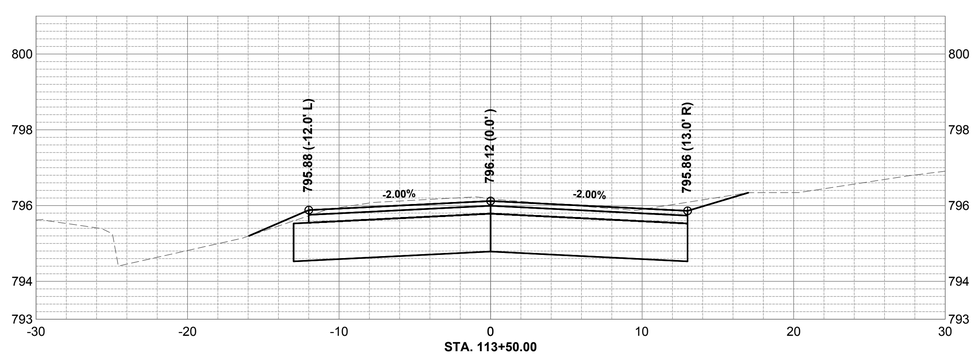
file: I:\District Projects\Shelburne Dr SA 135\01 Design\Drawings\Shelburne Dr - Roadway Sections.dwg

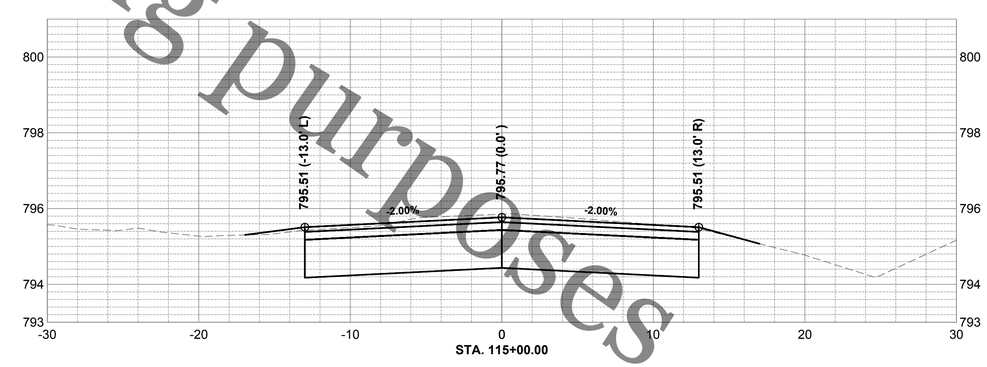












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Rock River Water Reclamation District
ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135

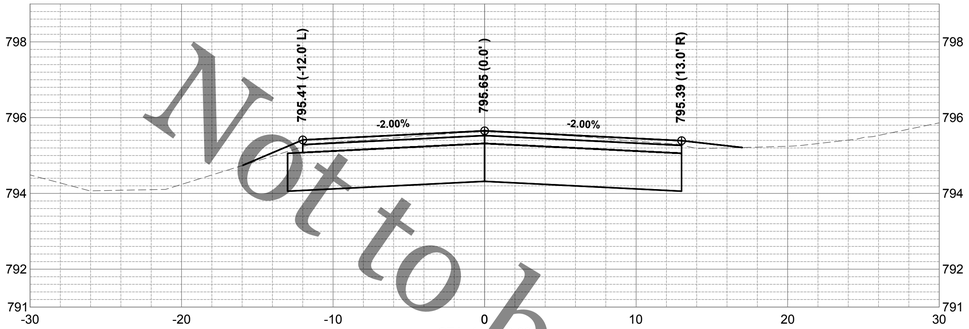
SHELBURNE DRIVE CROSS SECTIONS STA 112+50 TO 115+00

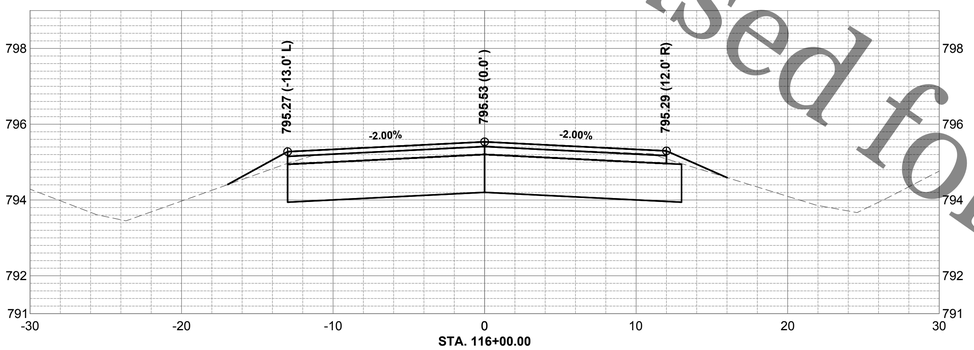
FOR BID

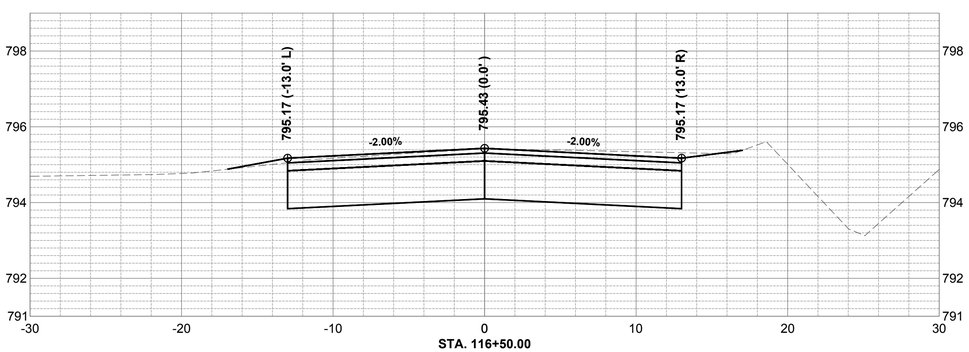
Sheet No. 25 OF 34

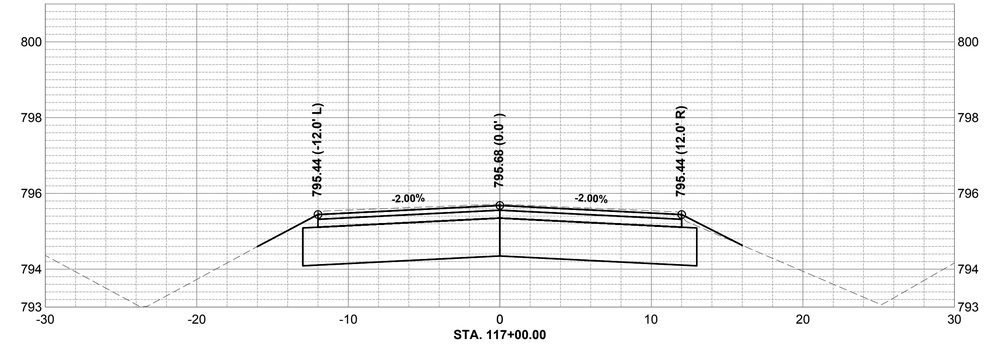
Date 7/1/2020

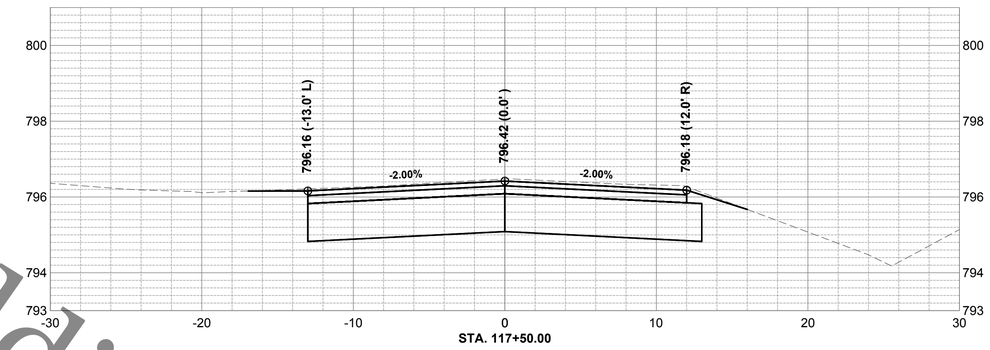
file: I:\District Projects\Shelburne Dr SA 135\01 Design\Drawings\Shelburne Dr - Roadway Sections.dwg

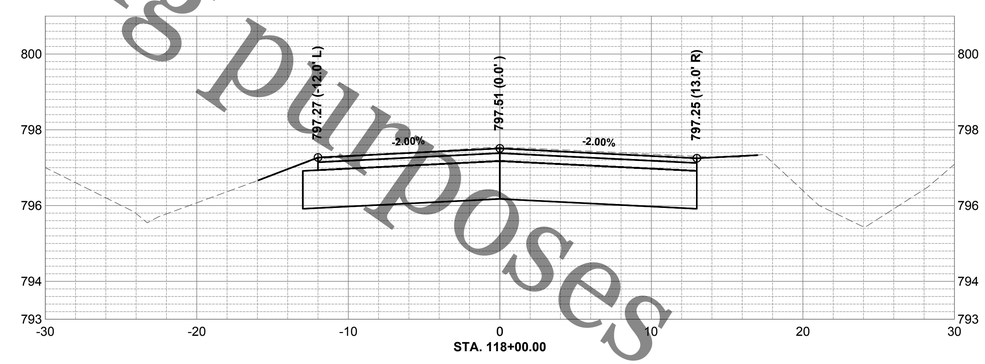












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Rock River Water Reclamation District
ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135

SHELBURNE DRIVE CROSS SECTIONS STA 115+50 TO 118+00

FOR BID

Sheet No. 26 OF 34

Date 7/1/2020

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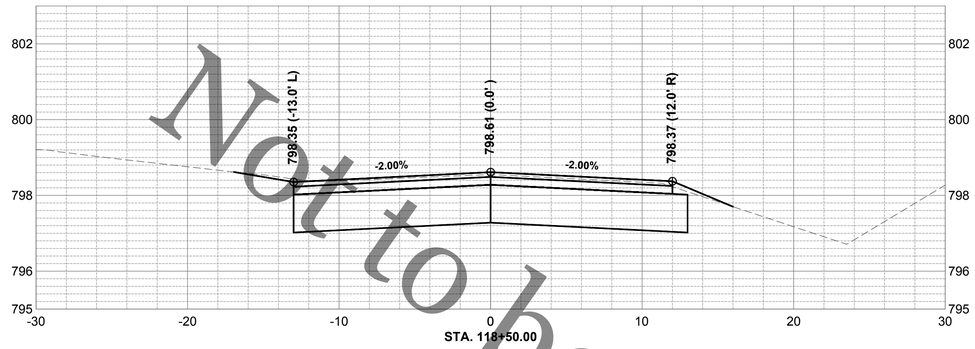

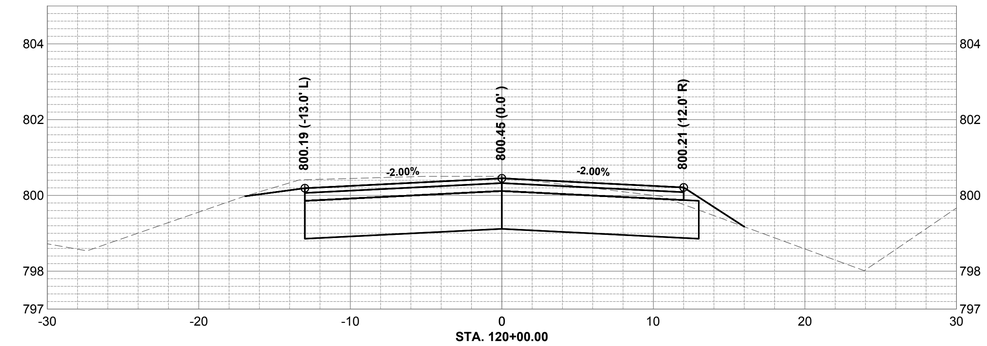

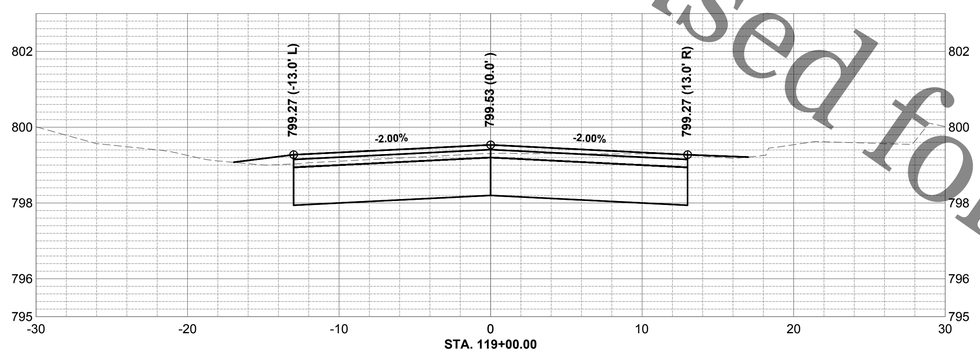

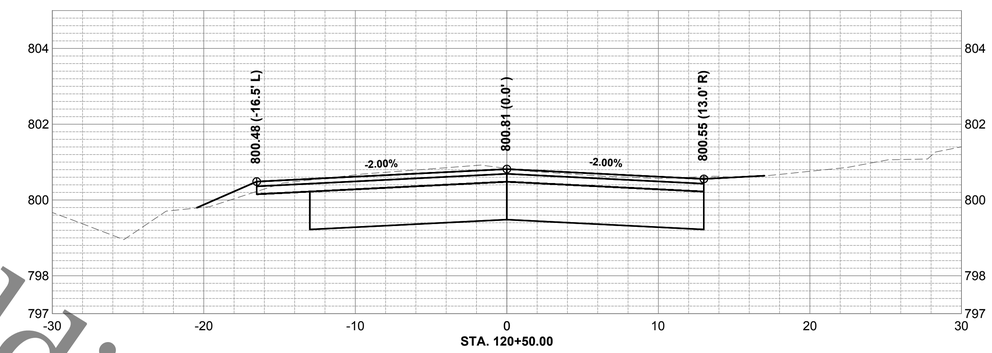

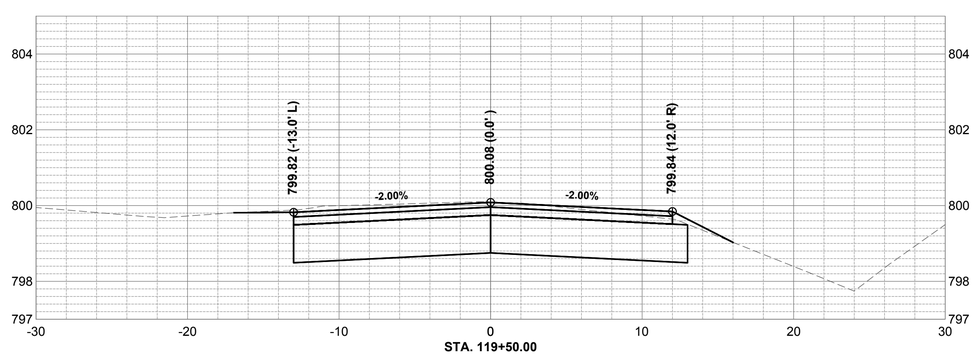

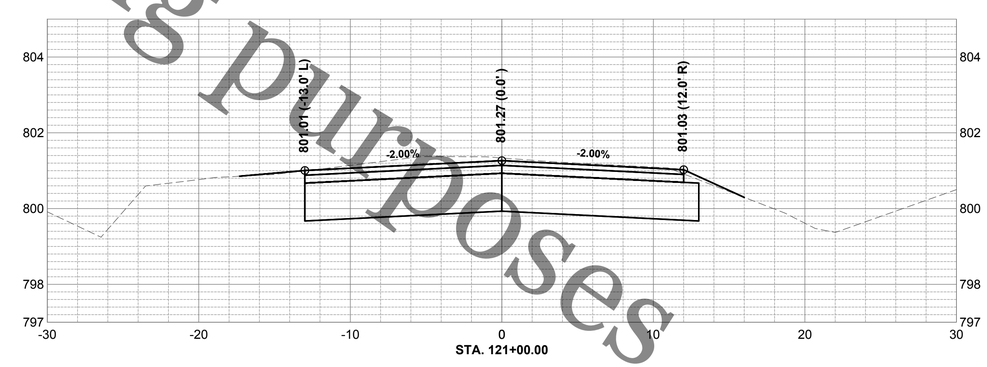

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Rock River Water Reclamation District
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3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135

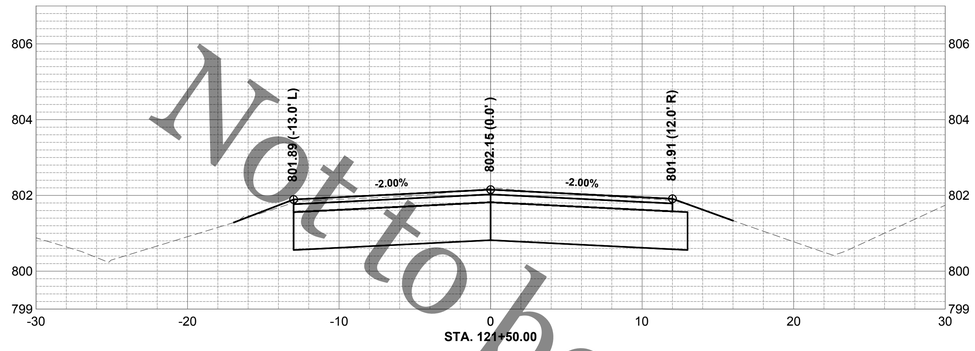
SHELBURNE DRIVE CROSS SECTIONS STA 118+50 TO 121+00

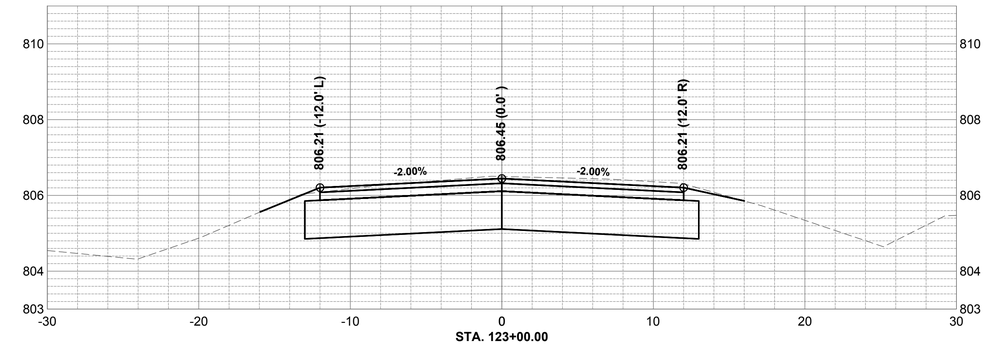
FOR BID

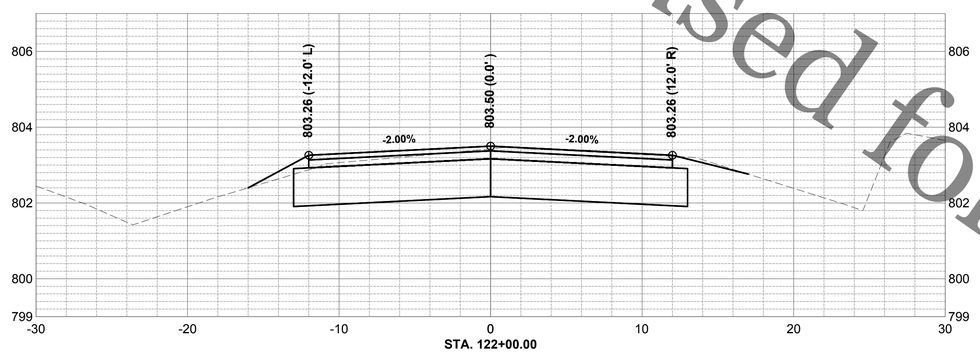
Sheet No. 27 OF 34

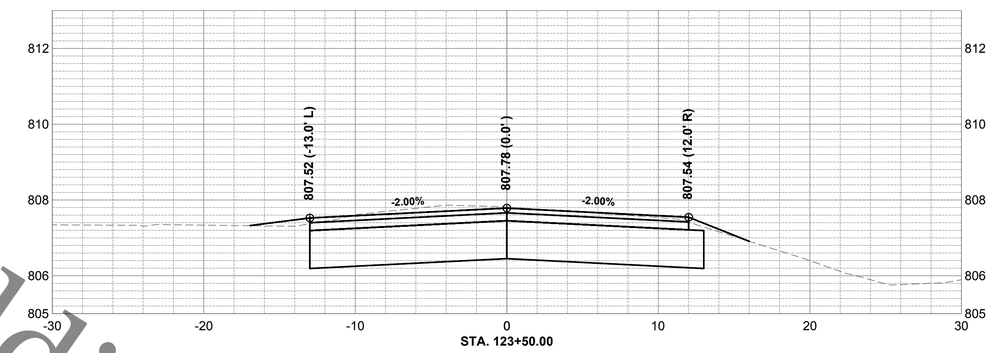
Date 7/1/2020

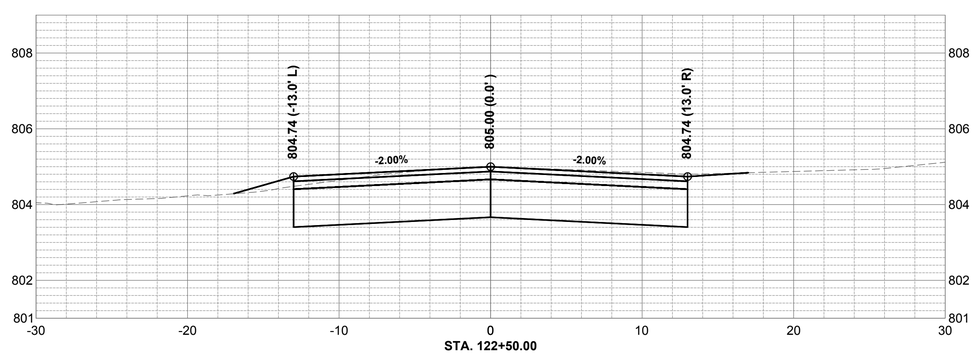
file: I:\District Projects\Shelburne Dr SA 135\01 Design\Drawings\Shelburne Dr - Roadway Sections.dwg

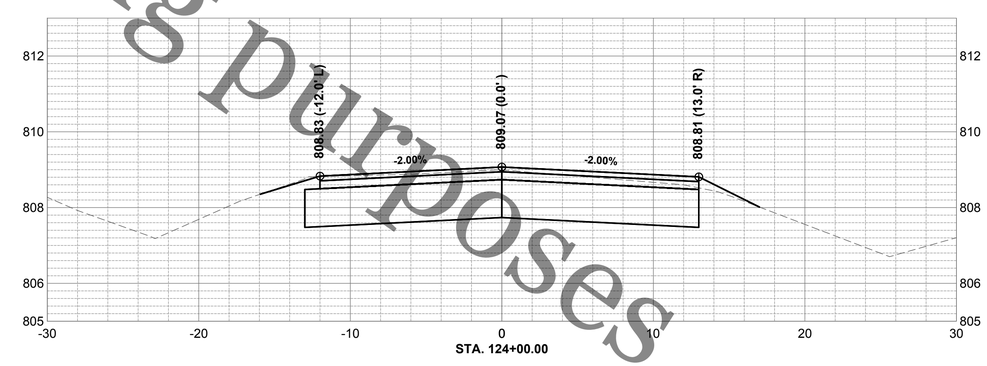












Not to be used for bidding purposes

Rock River Water Reclamation District
ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135

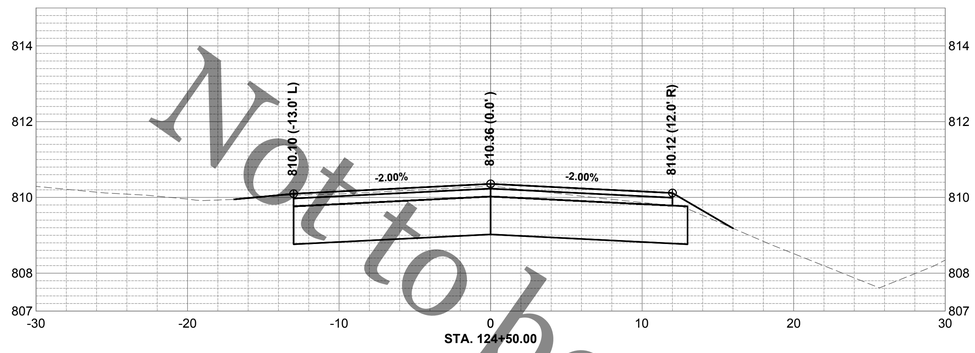
SHELBURNE DRIVE CROSS SECTIONS STA 121+50 TO 124+00

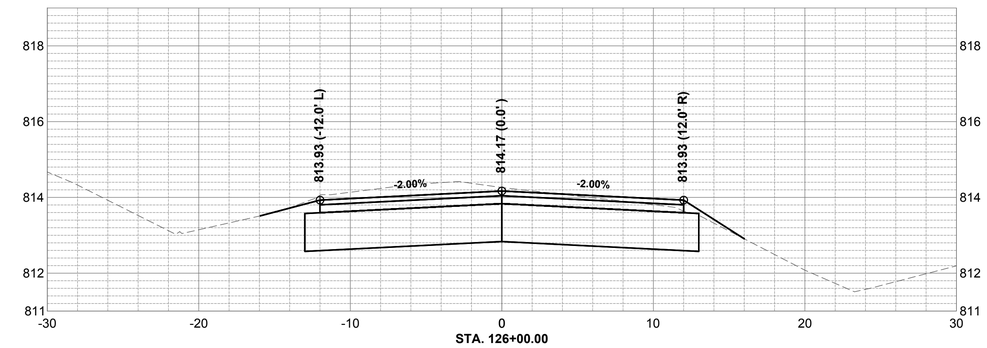
FOR BID

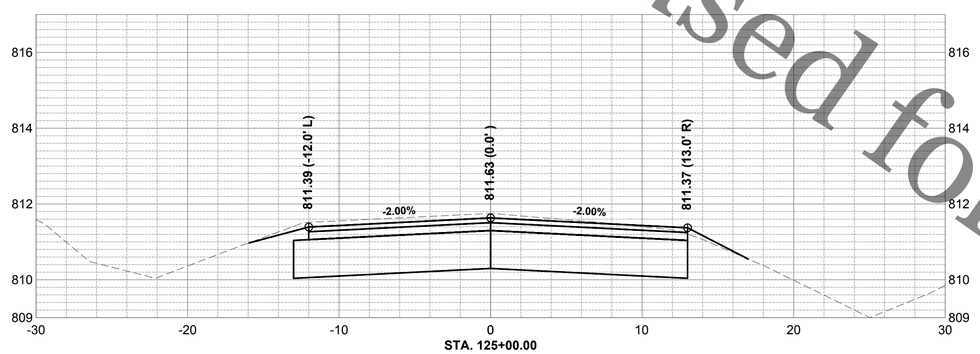
Sheet No. 28 OF 34

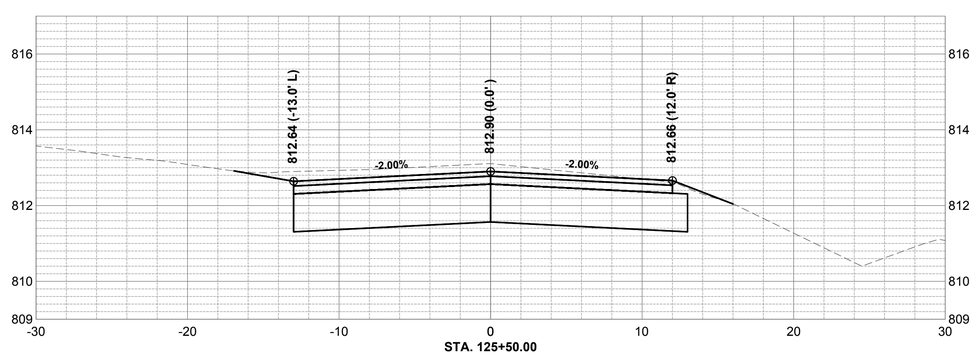
Date 7/1/2020

file: I:\District Projects\Shelburne Dr SA 135\01 Design\Drawings\Shelburne Dr - Roadway Sections.dwg









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

No.	DATE	REVISION	INT.

SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135

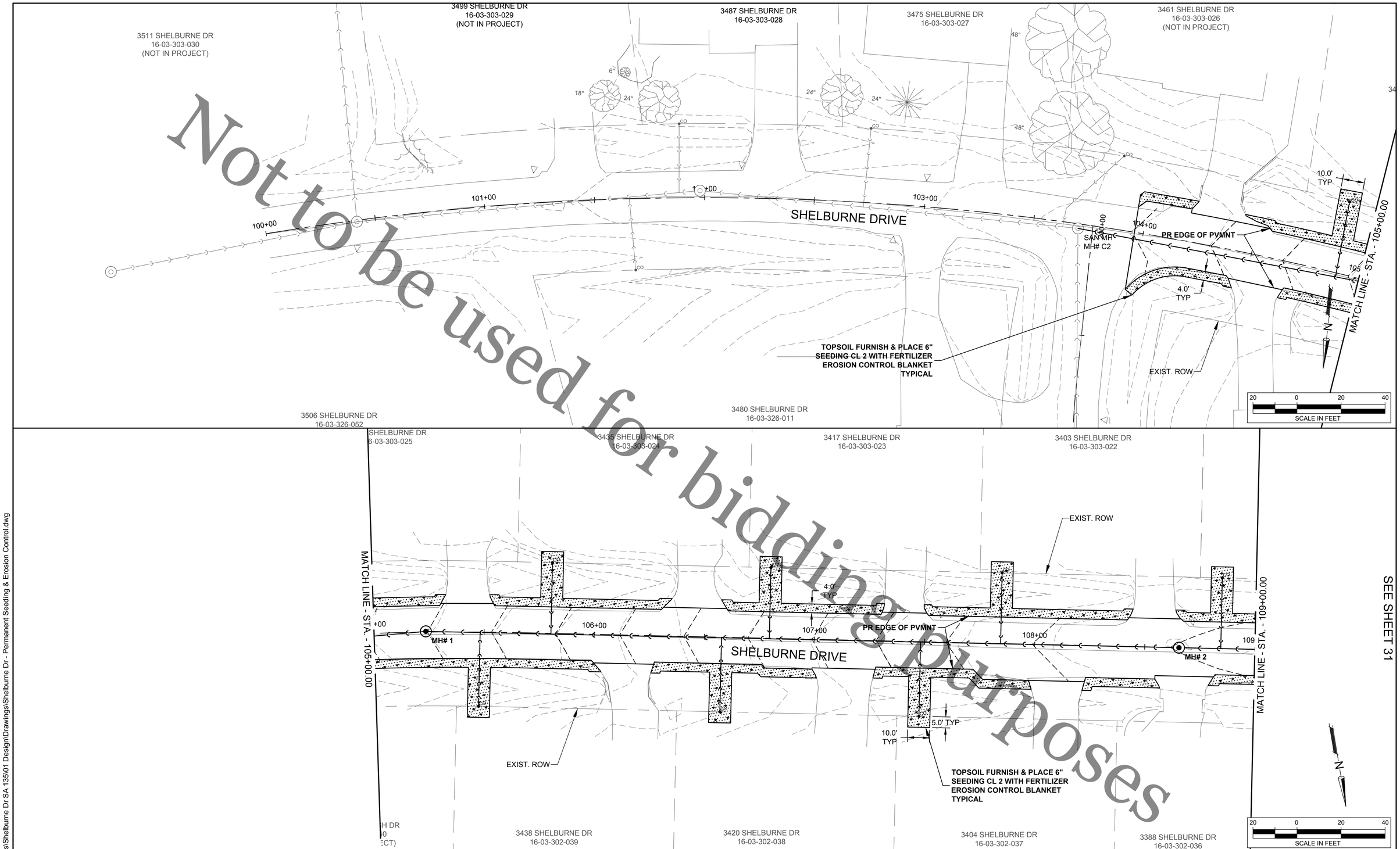
SHELBURNE DRIVE CROSS SECTIONS STA 124+50 TO 126+00

FOR BID

Sheet No.
29 OF 34

Date
7/1/2020

file: I:\District Projects\Shelburne Dr SA 135\01 Design\Drawings\Shelburne Dr - Roadway Sections.dwg



SEE SHEET 31

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file: I:\District Projects\Shelburne Dr SA 135\01 Design\Drawings\Shelburne Dr - Permanent Seeding & Erosion Control.dwg

Rock River Water Reclamation District
ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

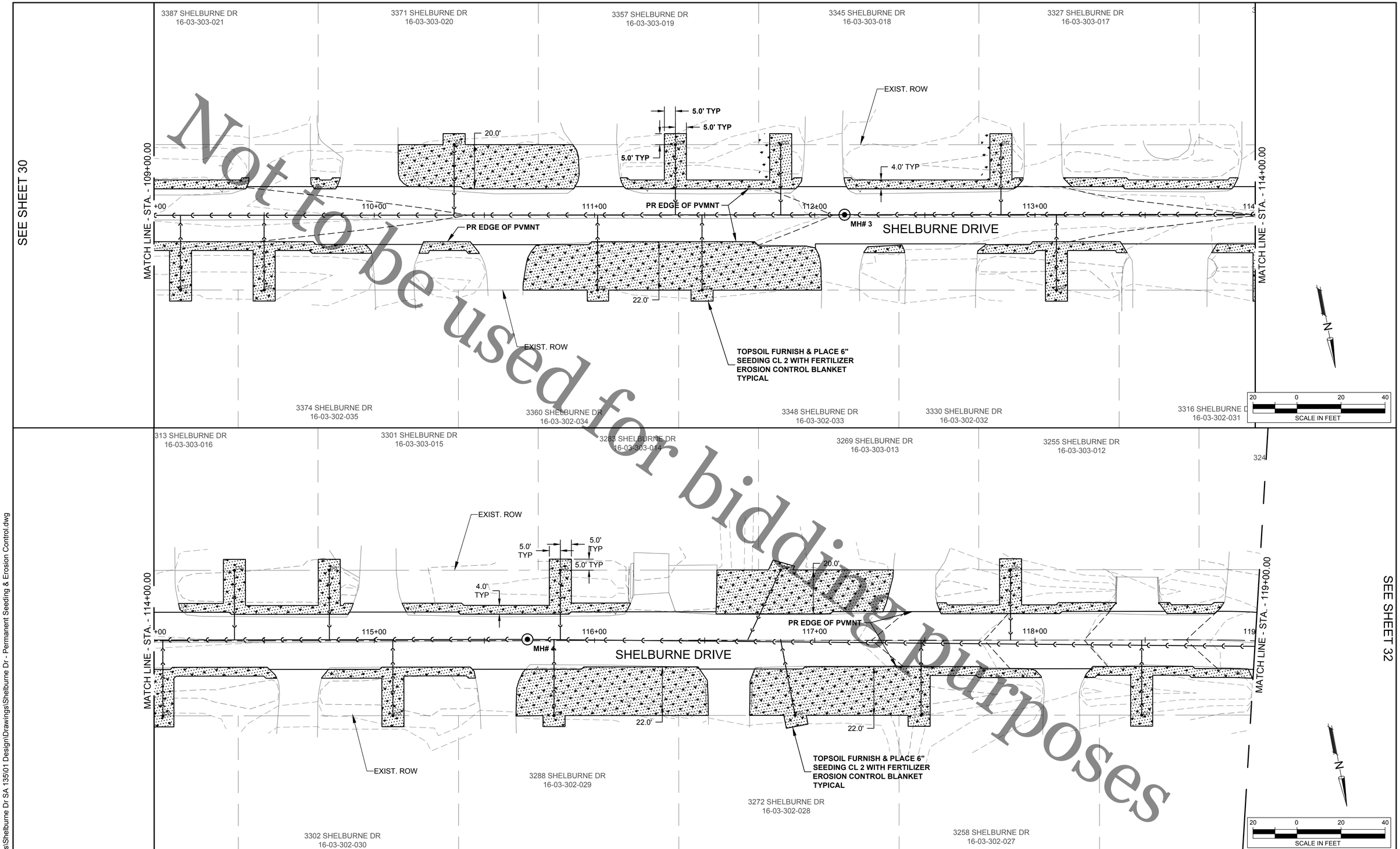
SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135

PERMANENT SEEDING & EROSION CONTROL STA 103+00 TO STA 109+00

FOR BID

Sheet No.
30 OF 34

Date
7/1/2020



Rock River Water Reclamation District

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

No.	DATE	REVISION	INT.

SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135

PERMANENT SEEDING & EROSION CONTROL STA 109+00 TO STA 119+00

FOR BID

Sheet No.
31 OF 34

Date
7/1/2020

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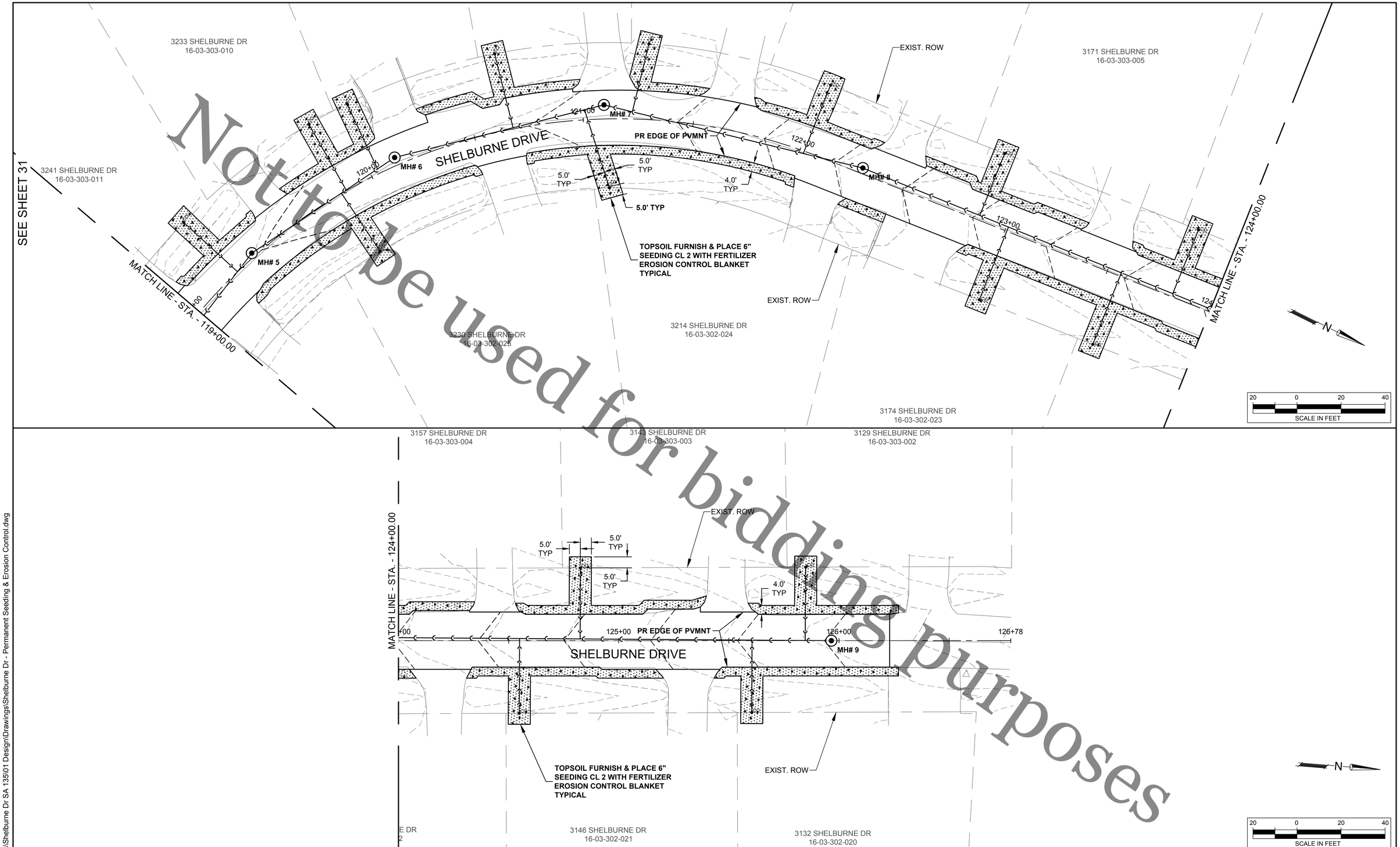

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Rock River Water Reclamation District
ROCK RIVER WATER RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
(815) 387-7660

No.	DATE	REVISION	INT.

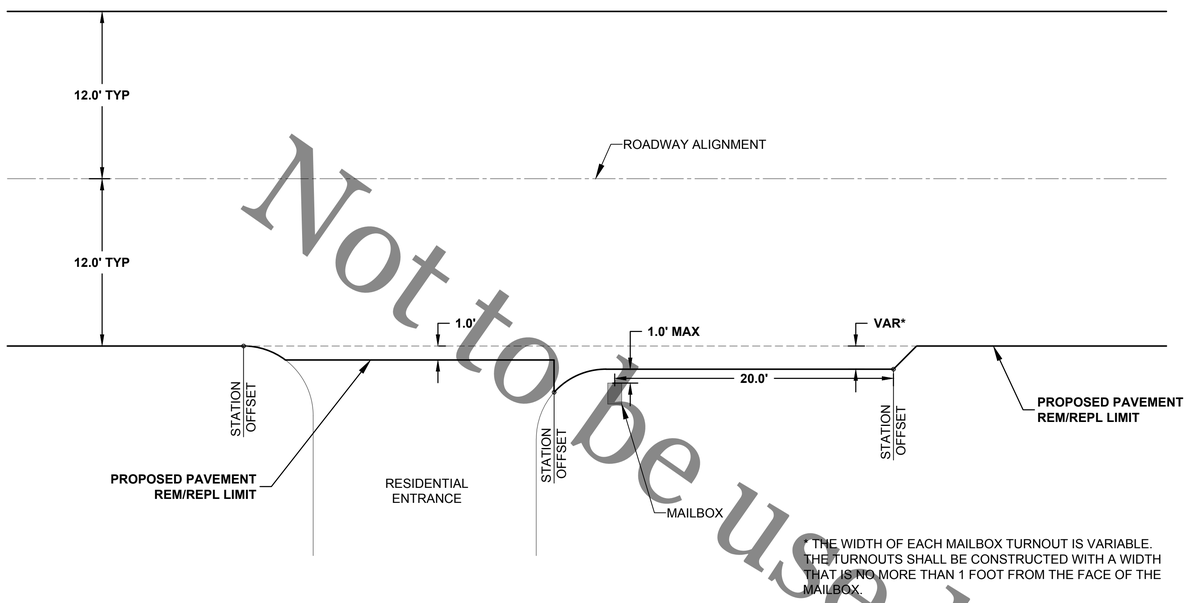
SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135

PERMANENT SEEDING & EROSION CONTROL STA 119+00 TO STA 126+50

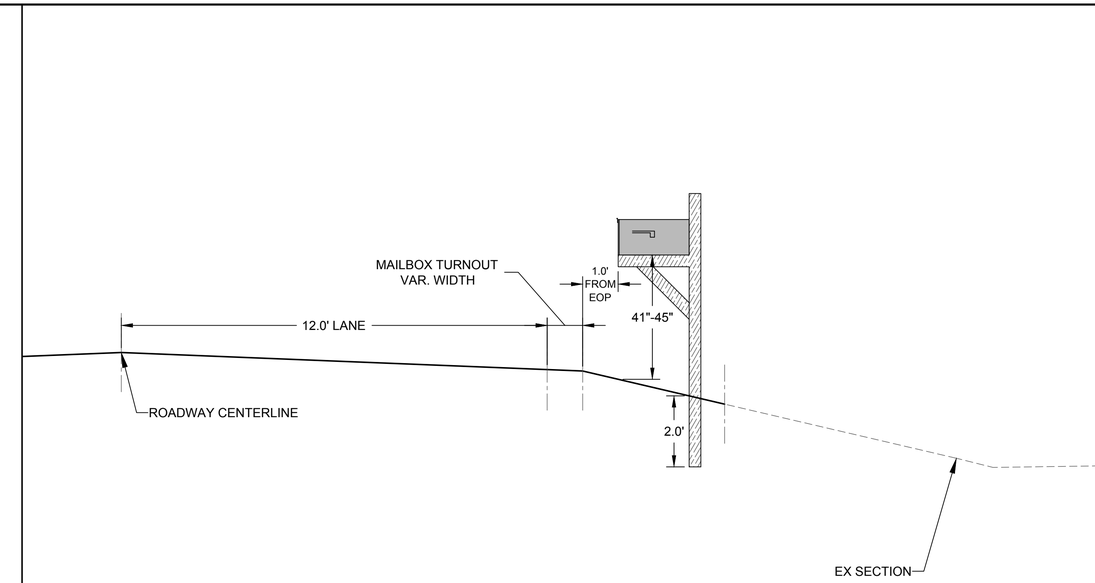
FOR BID

Sheet No. 32 OF 34

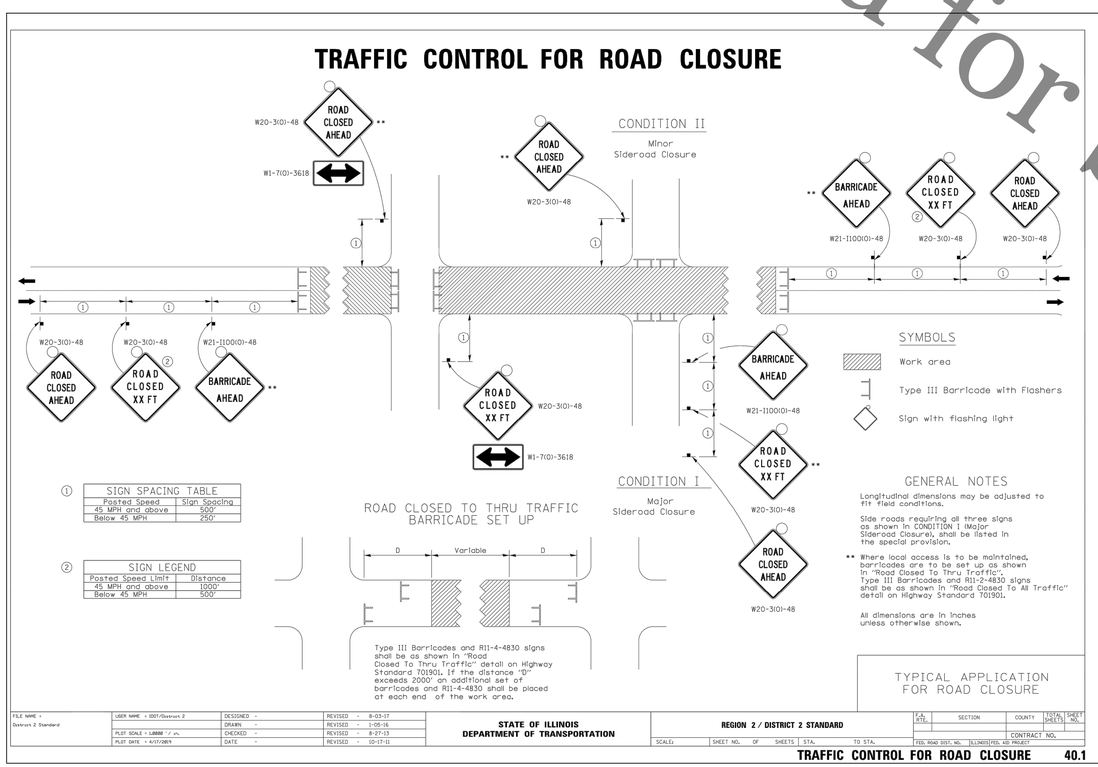
Date 7/1/2020



DRIVEWAY / MAILBOX RETURN DETAIL



MAILBOX INSTALLATION DETAIL



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

No.	DATE	REVISION	INT.

SHELBURNE DRIVE SANITARY SEWER EXTENSION
SPECIAL ASSESSMENT #135

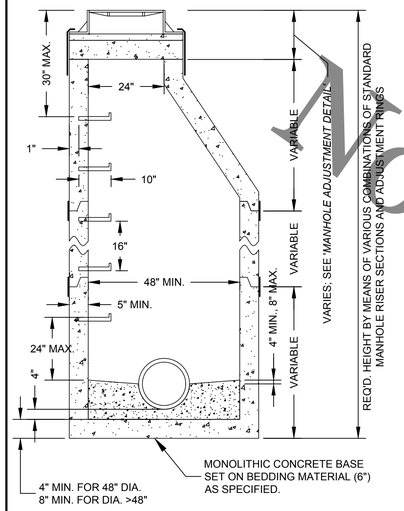
PROJECT DETAILS

FOR BID

Sheet No. 33 OF 34

Date 7/1/2020

file: I:\District Projects\Shelburne Dr SA 135\01 Design\Drawings\Shelburne Dr - Details.dwg



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.

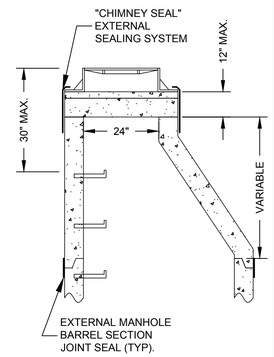
STANDARD MANHOLE DETAIL

(*'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. ALLOWABLE TYPES OF ADJUSTING RINGS INCLUDE PRECAST CONCRETE, HIGH DENSITY POLYETHYLENE (HDPE), & EXPANDED POLYPROPYLENE (EPP). THESE CAN BE USED IN CONJUNCTION WITH EACH OTHER, EXCEPT THAT A PRECAST RING SHALL NOT BE PLACED OVER AN HDPE OR EPP RING.
4. FOR PRECAST ADJUSTING RINGS, ALL ADJUSTING RING JOINTS AS WELL AS THE FRAME TO ADJUSTING RING JOINT SHALL BE SEALED WITH TWO 1" BEADS OF PRE-FORMED RUBBER BUTYL JOINT SEALER, INCLUDING FRAME TO CONCRETE JOINT. 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.
5. FOR HDPE OR EPP ADJUSTING RINGS, THE MAX. AMOUNT OF ADJUSTMENT IS 3" FOR HDPE & 6" FOR EPP. HDPE & EPP RINGS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS. WHEN A FRAME REQUIRES PITCHING, THE TOP RING SHALL BE AN 'ADJUSTMENT' RING PER MANUFACTURER'S INSTRUCTIONS.
6. NO TARRING OR GROUTING IS ALLOWED ON THE INSIDE OF MANHOLE OR ADJUSTMENT JOINTS.
7. ONLY ONE 2" RING ALLOWED PER MANHOLE. MAXIMUM ADJUSTMENT IS 12". MINIMUM ADJUSTMENT IS 4" UNLESS OFF-ROAD OR IN CURB & GUTTER ROADWAY.
8. WHEN ADJUSTING EXISTING MANHOLES, THE ENTIRE EXISTING ADJUSTMENT SHALL BE REMOVED AND REPLACED.
9. THE COMBINATION OF NEW ADJUSTING RINGS SHALL BE SUCH THAT THE MINIMUM NUMBER OF RINGS POSSIBLE ARE USED.
10. FLAT-TOPS ARE NOT PERMITTED ON 4' OR 5' DIA. MANHOLES.
11. REPLACEMENT OF EXISTING BARREL SECTIONS MAY BE REQUIRED TO MEET THE ABOVE REQUIREMENTS.



MANHOLE ADJUSTMENT DETAIL

(FOR ADJUSTMENT OF BOTH NEW & EXISTING MANHOLES)

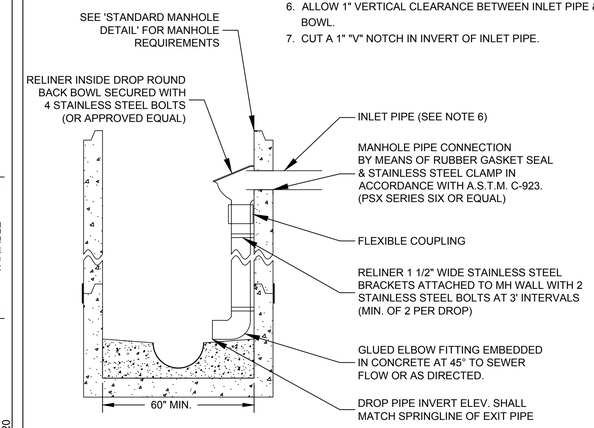
rev. 3/11/20

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:

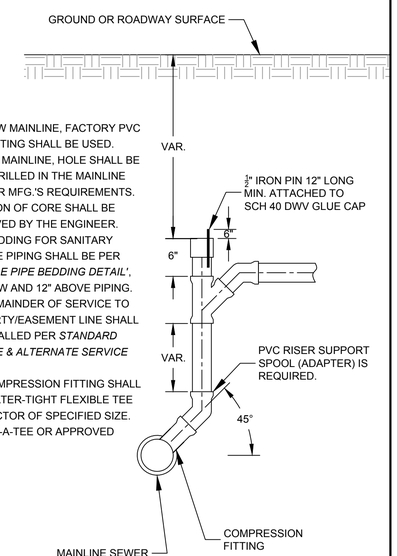
1. INSIDE DROP TYPE MANHOLES SHALL BE 5' MIN. INSIDE DIA.
2. ALL INSIDE DROP TYPE CONNECTIONS FOR SERVICES AND COLLECTOR SEWERS SHALL USE THE DROP AS PRODUCED BY RELINER-DURAN INC. OR EQUAL.
3. SEE TABLE FOR DROP BOWL AND DROP PIPE SIZES.
4. ALL INSIDE DROP PIPING SHALL BE PVC SDR35 ASTM-D3034.
5. ATTACH 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).

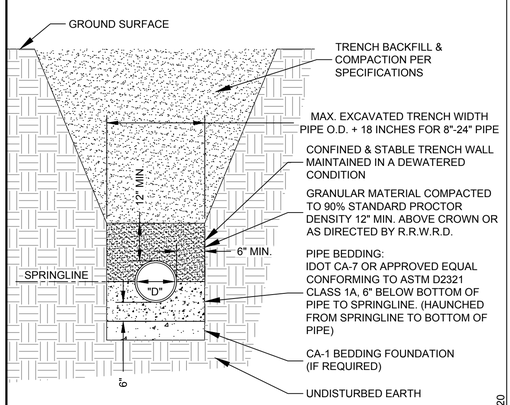
VERTICAL SERVICE RISER DETAIL

(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.

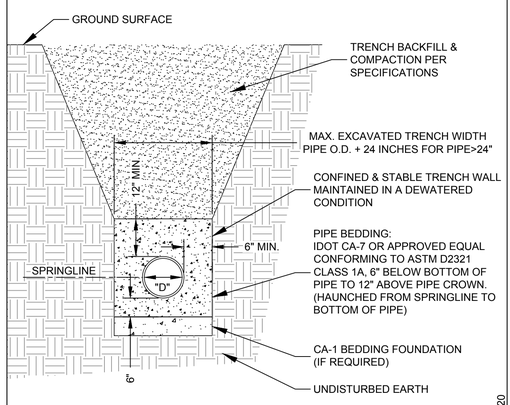


RIGID PIPE BEDDING DETAIL

rev. 3/11/20

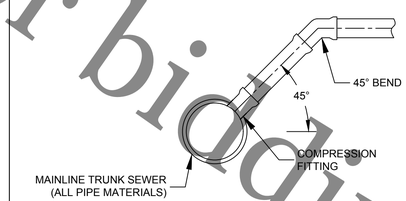
NOTES:

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. 3/11/20



NOTES:

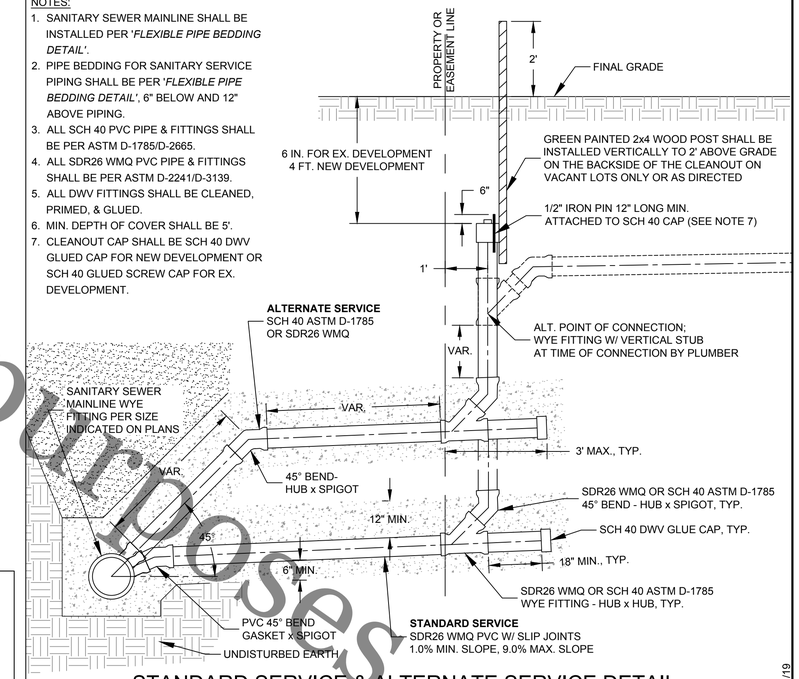
1. SERVICE CONNECTIONS TO SANITARY MAINS 18" DIA. OR LARGER SHALL BE BY MEANS OF INSERTED COMPRESSION FITTING AT A 45° ANGLE FROM HORIZONTAL AS SHOWN.
2. HOLE SHALL BE CORE DRILLED IN THE MAINLINE PIPE PER MFG.'S REQUIREMENTS.
3. LOCATION OF CORE SHALL BE APPROVED BY THE ENGINEER.
4. PIPE BEDDING SHALL BE PER *'FLEXIBLE PIPE BEDDING DETAIL'* 6" BELOW AND 12" ABOVE.
5. THE REMAINDER OF SERVICE TO PROPERTY/EASEMENT LINE SHALL BE INSTALLED PER *'STANDARD SERVICE & ALTERNATE SERVICE DETAIL'*.
6. 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. 3/11/20

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.



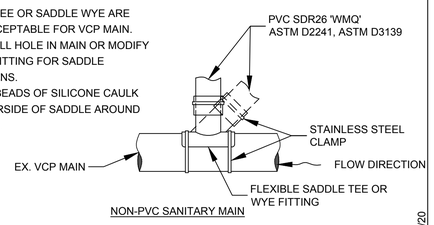
STANDARD SERVICE & ALTERNATE SERVICE DETAIL

(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.



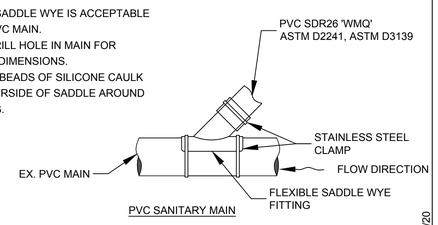
FLEXIBLE SADDLE CONNECTION DETAIL

(FOR SERVICE CONNECTIONS TO NON-PVC SANITARY MAINS LESS THAN 18" DIA.)

rev. 3/11/20

NOTES:

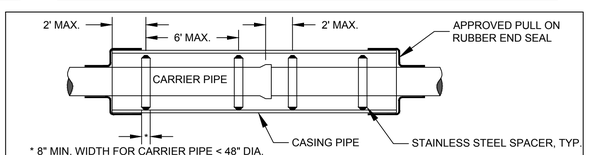
1. ONLY A SADDLE WYE IS ACCEPTABLE FOR A PVC MAIN.
2. CORE DRILL HOLE IN MAIN FOR SADDLE DIMENSIONS.
3. APPLY 2 BEADS OF SILICONE CAULK TO UNDERSIDE OF SADDLE AROUND OPENING.



FLEXIBLE SADDLE CONNECTION DETAIL

(FOR SERVICE CONNECTIONS TO PVC SANITARY MAINS LESS THAN 18" DIA.)

rev. 3/11/20



* 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

3/2/2020 Revisions:
Manhole Adjustment Detail: deleted previous note 5; added/modified notes 3,4,5,8,9.
Rigid Pipe Bedding Detail: added leader pertaining to trench wall.
Flexible Pipe Bedding Detail: added leader pertaining to trench wall.
Service Connection Detail For Connection To 18" Or Larger Pipe: added note 1.
Flexible Saddle Connection Details (2): added note below detail name.

Rock River Water Reclamation District

ROCK RIVER WATER RECLAMATION DISTRICT
STANDARD DETAIL SHEET
(NOT TO SCALE)
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