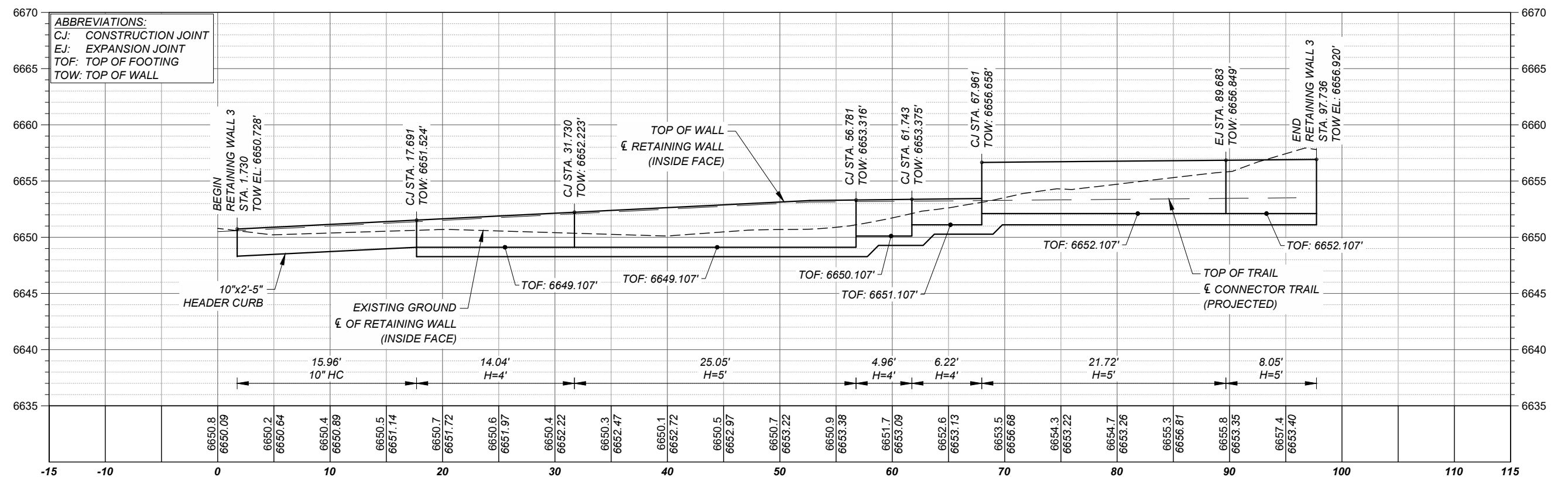


PLAN SCALE: 1" = 10'



**RETAINING WALL 3 PROFILE**

HORIZONTAL SCALE: 1" = 10'  
 VERTICAL SCALE: 1" = 10'



**PROJECT**  
 SANTA FE RIVER  
 GREENWAY PROJECT  
 (SECTION B)

**CLIENT**  
 SANTA FE  
 COUNTY  
 100 Catron St.  
 Santa Fe, New Mexico 87501  
 T 505.986.6200  
 www.santafecountynm.gov

**ENGINEERING CONSULTANT**  
 AECOM  
 150 Washington Avenue, Suite 201  
 Santa Fe, New Mexico 87501  
 T 505.855.7500  
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08-24-2023

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I/R	DATE	DESCRIPTION

**KEY PLAN**

**PROJECT NUMBER**  
 357-7708

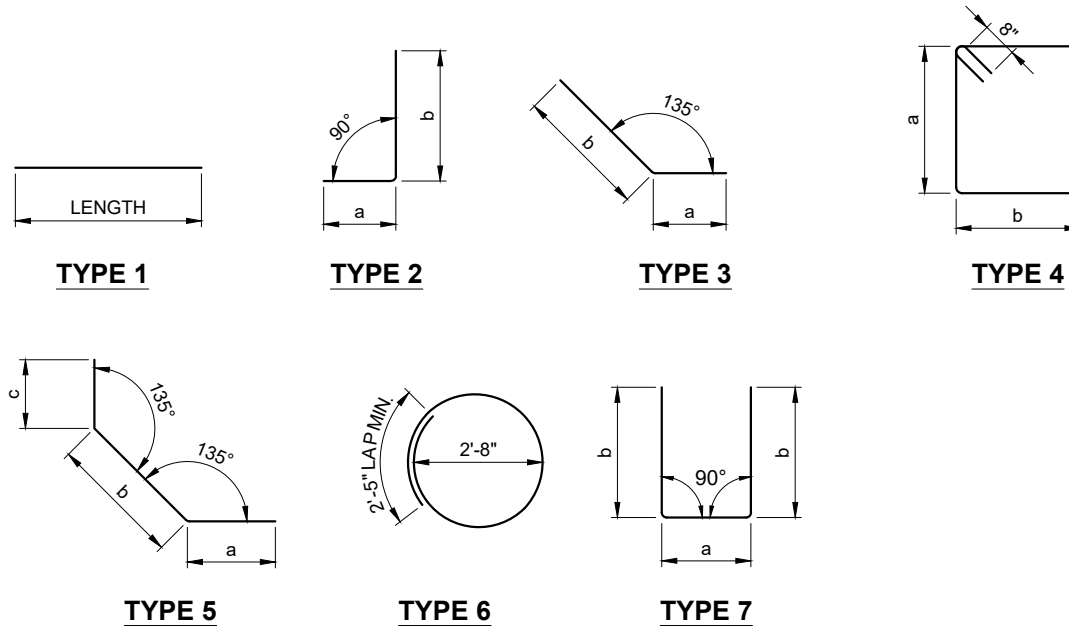
**SHEET TITLE**  
 BID ALT. #1  
 RETAINING WALL 3  
 PLAN AND PROFILE

**SHEET NUMBER**  
 5 - 14

REINFORCEMENT SCHEDULE					
MARK	SIZE	TYPE	LENGTH	No. REQ'D	REMARKS
<b>ABUTMENT NO. 1 DRILLED SHAFTS (2)</b>					
#4DS1	4	6	10'-5"	190	TRANS. (95 EA. SHAFT)
#9DS2	9	1	47'-9"	32	LONG. (16 EA. SHAFT)
<b>ABUTMENT NO. 1 CAP (1)</b>					
#4AC1	4	1	18'-8"	6	LONG.
#4AC2	4	1	4'-6"	16	LONG.
#5AC3	5	4	15'-9"	20	TIES
#5AC4	5	7	7'-8"	20	TIES (a=1'-0", b=3'-4")
#7AC5	7	5	29'-0"	8	LONG. (a&c=1'-3", b=26'-6")
#8AC6	8	1	18'-8"	16	LONG. (8 TOP & BOT.)
<b>ABUTMENT NO. 1 BACKWALL</b>					
#4AB1	4	7	7'-8"	20	TIES (a=1'-0", b=3'-4")
#4AB2	4	1	24'-8"	7	LONG.
#7AB3	7	5	29'-0"	7	LONG. (a&c=1'-3", b=26'-6")
<b>ABUTMENT NO. 1 WINGWALLS</b>					
#4WH1	4	3	5'-0"	30	COR. BARS (a=2'-6", b=2'-6")
#4WH2	4	1	13'-8"	30	HOR. N.F. (15 PER WW)
#5VV1*	5	1	7'-3"	66	VERT. E.F. (33 PER WW)
#7WH3	7	3	15'-9"	30	HOR. F.F. (a=1'-3", b=14'-6")
<b>ABUTMENT NO. 2 DRILLED SHAFTS</b>					
#4DS1	4	6	10'-5"	190	TRANS. (95 EA. SHAFT)
#9DS2	9	1	47'-9"	32	LONG. (16 EA. SHAFT)
<b>ABUTMENT NO. 2 CAP</b>					
#4AC1	4	1	18'-8"	6	LONG.
#4AC2	4	1	4'-6"	16	LONG.
#5AC3	5	4	15'-9"	20	TIES
#5AC4	5	7	7'-8"	20	TIES (a=1'-0", b=3'-4")
#7AC7	7	7	27'-2"	8	LONG. (a&c=1'-3", b=24'-8")
#8AC6	8	1	18'-8"	16	LONG. (8 TOP & BOT.)
<b>ABUTMENT NO. 2 BACKWALL</b>					
#4AB1	4	7	7'-8"	20	TIES (a=1'-0", b=3'-4")
#4AB2	4	1	24'-8"	7	LONG.
#7AB4	7	7	27'-2"	7	LONG. (a&c=1'-3", b=24'-8")
#7AB5	7	5	7'-6"	28	H. FILLET (a&c=1'-3", b=5'-0")
<b>ABUTMENT NO. 2 WINGWALLS</b>					
#4WH4	4	2	5'-0"	30	COR. BARS (a=2'-6", b=2'-6")
#4WH2	4	1	13'-8"	30	HOR. N.F. (15 PER WW)
#5VV1*	5	1	7'-0"	64	VERT. E.F. (32 PER WW)
#7WF1	7	1	6'-6"	6	V. FILLET (3 PER WW)
#7WH5	7	2	15'-9"	30	HOR. F.F. (a=1'-3", b=14'-6")
<b>DECK SLAB (1)</b>					
#4DT1	4	1	11'-8"	214	DECK TRANS. @ 9" SPA.
#6DL1	6	1	32'-9"	96	DECK LONG. 2 @ 12" SPA.

\* = HEIGHT VARIES. BAR LENGTH SHOWN IS NOMINAL.

**BAR BENDING DIAGRAM**



**NOTES:**

- DIMENSIONS SHOWN ARE TO "OUT-TO-OUT" OF BARS.
- ALL REBAR LAP SPLICES SHALL BE AS SHOWN BELOW UNLESS OTHERWISE NOTED.

**3 KSI CONCRETE  
 BLACK REINFORCEMENT  
 LAP SPLICE TABLE**

BAR SIZE:	MINIMUM BAR LAP:
No. 4	2'-5"
No. 5	3'-1"
No. 6	3'-7"
No. 7	4'-2"
No. 8	5'-2"
No. 9	6'-6"
No. 10	8'-3"

PROJECT

SANTA FE RIVER  
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KEY PLAN

PROJECT NUMBER

357-7708

SHEET TITLE

BID ALT. #1  
 PEDESTRIAN BRIDGE  
 REINFORCING BAR SCHEDULE

SHEET NUMBER

5 - 15

**SUGGESTED SEQUENCE OF CONSTRUCTION**CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTIES AT ALL TIMES.
2. THE CONTRACTOR SHALL CONSTRUCT PHASES II-A AND II-B SIMULTANEOUSLY, ALTERNATING FROM ONE SIDE TO THE OTHER, LIMITING THE VERTICAL DIFFERENCE BETWEEN EACH SIDE TO 8" MAXIMUM.
3. AT THE END OF EACH WORKDAY, TRAFFIC MUST BE OPENED TO TWO-WAY TRAFFIC ON ALL ROADWAYS INCLUDING PASADA SAN JUAN. THE CONTRACTOR SHALL ENSURE THAT THE FOLLOWING CONDITIONS ARE MET PRIOR TO OPENING THE ROADWAY TO TRAFFIC:
  - a. THE VERTICAL DIFFERENCE BETWEEN EACH SIDE IS NOT MORE THAN 3" OR,
  - b. IF THE VERTICAL DIFFERENCE IS GREATER THAN 3", A 3:1 TAPER IS CONSTRUCTED BETWEEN THE TWO SIDES. THE MAXIMUM TAPER WIDTH SHALL BE 24".

PHASE I:

## TRAFFIC:

INSTALL TRAFFIC CONTROL DEVICES AND SIGNAGE FOR SHOULDER OPERATIONS ALONG SAN YSIDRO CROSSING, CAMINO DOS ANTONIOS, VER SAN ANTONIO, AND SILER ROAD PER SHEETS 6-2 THRU 6-5. MAINTAIN TRAFFIC CONTROL DEVICES AND SIGNAGE THROUGHOUT PHASES II AND III.

PHASE II:

CONSTRUCT PASADA SAN JUAN TO FINAL GRADE, UTILIZING A ONE LANE CLOSURE OPERATION, ALTERNATING LEFT AND RIGHT SIDES FOR 8" MAX DROP OFF. COMPLY WITH PAVEMENT DROP OFF GUIDELINES PRIOR TO OPENING THE ROADWAY TO TRAFFIC. COMPLETE ALL SUBGRADE CONSTRUCTION BEFORE PROCEEDING WITH BASE COURSE. COMPLETE ALL BASE COURSE CONSTRUCTION BEFORE PROCEEDING WITH ASPHALT PAVEMENT.

PHASE II-A (LEFT SIDE):

## TRAFFIC:

DURING CONSTRUCTION HOURS, MAINTAIN 1-LANE, 2-WAY TRAFFIC IN THE EASTBOUND LANE USING FLAGGER OPERATIONS TO REGULATE TRAFFIC. AT THE END OF EACH WORKDAY, OPEN ROADWAY TO 2-LANE, 2-WAY TRAFFIC USING THE NON-CONSTRUCTION HOURS TRAFFIC CONTROL PLAN.

## CONSTRUCTION:

CONSTRUCT THE PASADA SAN JUAN WESTBOUND LANE. BUILD ROADWAY SUBGRADE TO FINAL GRADE. BUILD ROADWAY BASE COURSE TO FINAL GRADE. BUILD HEADER CURB. BUILD ASPHALT PAVEMENT TO FINAL GRADE.

PHASE II-B (RIGHT SIDE):

## TRAFFIC:

DURING CONSTRUCTION HOURS, MAINTAIN 1-LANE, 2-WAY TRAFFIC IN THE WESTBOUND LANE USING FLAGGER OPERATIONS TO REGULATE TRAFFIC. AT THE END OF EACH WORKDAY, OPEN ROADWAY TO 2-LANE, 2-WAY TRAFFIC USING THE NON-CONSTRUCTION HOURS TRAFFIC CONTROL PLAN.

## CONSTRUCTION:

CONSTRUCT THE PASADA SAN JUAN EASTBOUND LANE. BUILD ROADWAY SUBGRADE TO FINAL GRADE. BUILD ROADWAY BASE COURSE TO FINAL GRADE. BUILD CURB AND GUTTER. BUILD ASPHALT PAVEMENT TO FINAL GRADE.

PHASE III:

## TRAFFIC:

INSTALL TRAFFIC CONTROL DEVICES ALONG SOUTH SIDE OF NEWLY CONSTRUCTED PASADA SAN JUAN FOR A SHOULDER OPERATION. PERMANENTLY CLOSE TWO LOW WATER CROSSINGS AT CAMINO DOS ANTONIOS AND VER SAN ANTONIO.

## CONSTRUCTION:

CONSTRUCT RIVER GRADING AND BOULDER STRUCTURES. CONSTRUCT THE SANTA FE RIVER TRAIL BETWEEN SAN YSIDRO CROSSING AND SILER ROAD. CONSTRUCT TRAILHEAD PARKING, AND ANY REMAINING PORTIONS OF PROJECT BETWEEN SAN YSIDRO CROSSING AND SILER ROAD.

PHASE IV:

## TRAFFIC:

UTILIZING PHASE II TRAFFIC CONTROL PLAN. DURING CONSTRUCTION HOURS, MAINTAIN 1-LANE, 2-WAY TRAFFIC USING FLAGGER OPERATIONS TO REGULATE TRAFFIC. AT THE END OF EACH WORKDAY, OPEN ROADWAY TO 2-LANE, 2-WAY TRAFFIC USING THE NON-CONSTRUCTION HOURS TRAFFIC CONTROL PLAN.

## CONSTRUCTION:

CONSTRUCT CURB & GUTTER AND ASPHALT PAVEMENT ALONG SAN YSIDRO CROSSING.

PHASE V:

## TRAFFIC:

INSTALL TRAFFIC CONTROL DEVICES AND SIGNAGE FOR SHOULDER OPERATIONS AS APPROPRIATE.

## CONSTRUCTION:

INSTALL PERMANENT SIGNING AND STRIPING.

**TRAFFIC CONTROL INDEX OF SHEETS**

SHEET No.	DESCRIPTION
6-1	TRAFFIC CONTROL SUGGESTED SEQUENCE OF CONSTRUCTION
6-2 to 6-3	TRAFFIC CONTROL QUANTITIES
6-4	TRAFFIC CONTROL SAN YSIDRO CROSSING
6-5	TRAFFIC CONTROL AGUA FRIA STREET
6-6 to 6-7	TRAFFIC CONTROL SILER ROAD
6-8	TRAFFIC CONTROL PHASE II-A LEFT LANE CLOSURE
6-9	TRAFFIC CONTROL PHASE II-B RIGHT LANE CLOSURE
6-10	TRAFFIC CONTROL PHASE III

## PROJECT

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(SECTION B)

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COUNTY

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TERRACON  
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## ISSUE/REVISION

I/R	DATE	DESCRIPTION

## KEY PLAN

## PROJECT NUMBER

357-7708

## SHEET TITLE

TRAFFIC CONTROL  
SUGGESTED SEQUENCE  
OF CONSTRUCTION

## SHEET NUMBER

6 - 1

**SUMMARY OF QUANTITIES  
TRAFFIC CONTROL ITEMS**

ITEM No.	DESCRIPTION	UNITS	PHASE I	PHASE II	PHASE III	USE
618000	TRAFFIC CONTROL MANAGEMENT	LS	L.S.	L.S.	L.S.	LS
702810	TRAFFIC CONTROL DEVICES FOR CONSTRUCTION	LS	L.S.	L.S.	L.S.	LS

**ITEM No. 702810  
ITEMIZED LIST OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION**

ITEM No.	BID ITEM	UNITS	PHASE I SAN YSIDRO CROSSING	PHASE I AGUA FRIA STREET	PHASE I SILER ROAD	PHASE II-A CONSTR.	PHASE II-A NON- CONSTR.	PHASE II-B CONSTR.	PHASE II-B NON- CONSTR.	PHASE III RIVER TRAIL & STRUCTS.	PHASE IV-A CONSTR.	PHASE IV-A NON- CONSTR.	PHASE IV-B CONSTR.	PHASE IV-B NON- CONSTR.	USE
*	CONSTRUCTION SIGNING	S.F.	54	61	67	101	41	(101)	(99)	45	(101)	(99)	(101)	(99)	369
*	STEEL POSTS AND BASE POSTS FOR CONSTRUCTION SIGNING	L.F.	54	69	87	0	0	0	0	0	0	0	0	0	209
*	PORTABLE SIGN SUPPORT	EACH	0	0	0	12	8	(12)	(14)	5	(12)	(14)	(12)	(14)	25
*	BARRICADE TYPE II 3'	EACH	0	2	2	0	0	0	0	0	0	0	0	0	4
*	BARRICADE TYPE III 8'	EACH	0	0	0	1	0	(1)	0	0	(1)	0	(1)	0	1
*	CHANNELIZATION DEVICE, TYPE DRUM	EACH	28	9	22	62	0	(62)	0	(51)	(62)	0	(62)	0	121
*	VERTICAL PANEL, TYPE BACK TO BACK	EACH	0	0	0	0	78	0	(78)	(51)	0	(78)	0	(78)	78

\* FOR CONTRACTOR INFORMATION ONLY



**PROJECT**  
SANTA FE RIVER  
GREENWAY PROJECT  
(SECTION B)

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**SANTA FE  
COUNTY**



100 Catron St.  
Santa Fe, New Mexico 87501  
T 505.986.6200  
www.santafecountynm.gov

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Santa Fe, New Mexico 87501  
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**TERRACON**  
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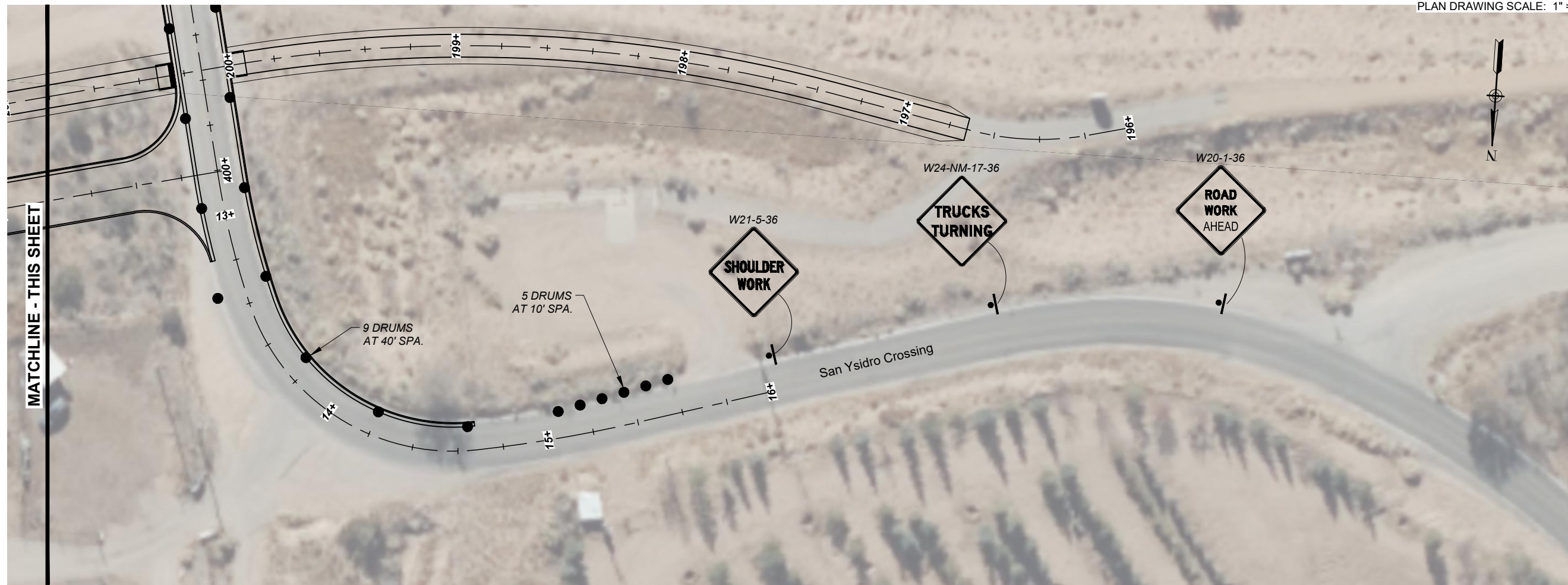
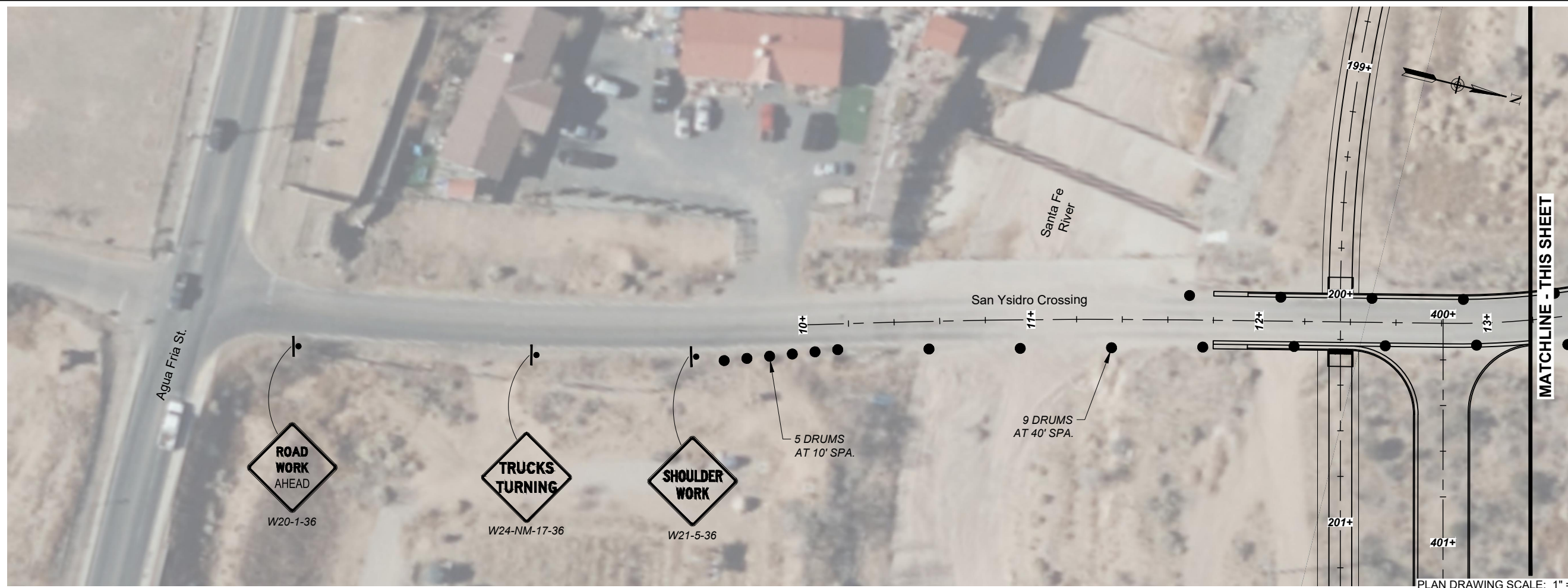
**SHEET TITLE**

TRAFFIC CONTROL  
QUANTITIES

**SHEET NUMBER**

6 - 2





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SANTA FE  
COUNTY  
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T 505.986.6200  
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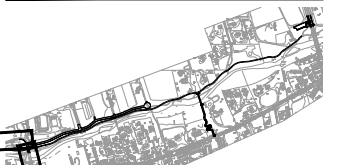
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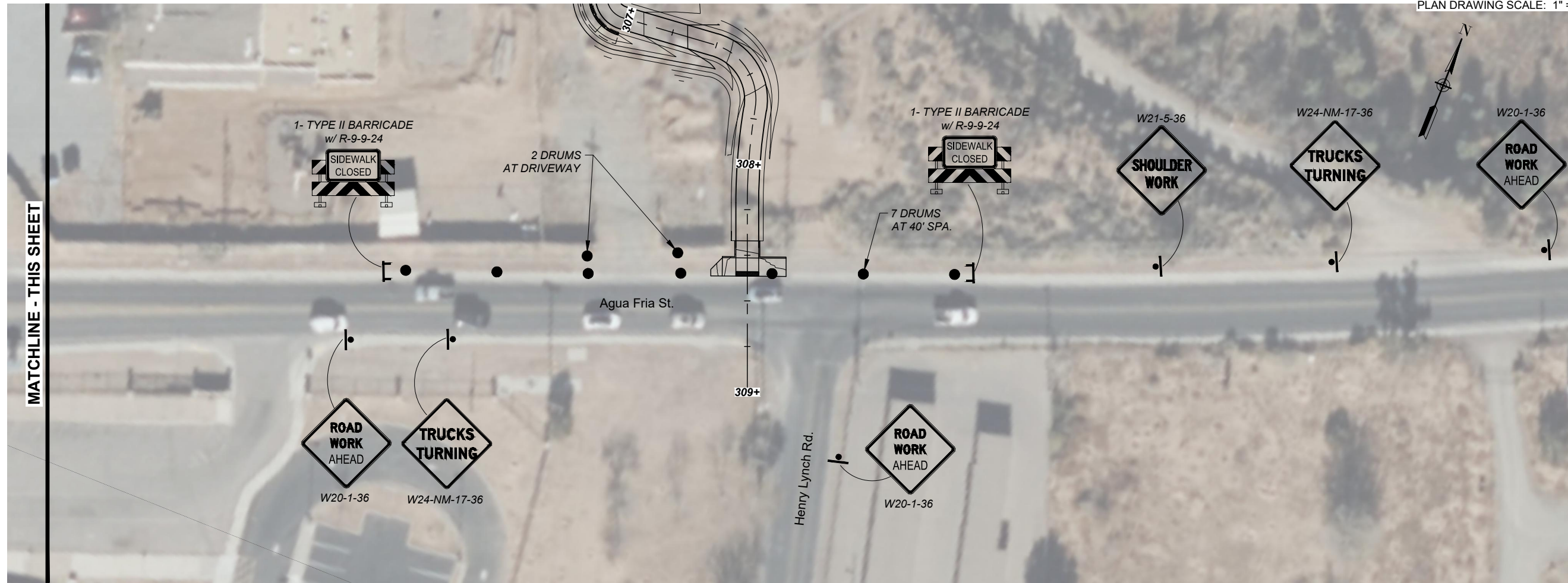
**PROJECT NUMBER**  
357-7708  
**SHEET TITLE**  
TRAFFIC CONTROL  
SAN YSIDRO CROSSING

**SHEET NUMBER**  
6 - 4



PLAN DRAWING SCALE: 1" = 50'

PLAN DRAWING SCALE: 1" = 50'



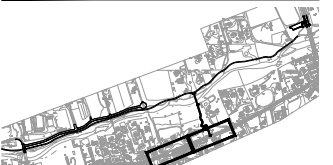
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MATCHLINE - THIS SHEET



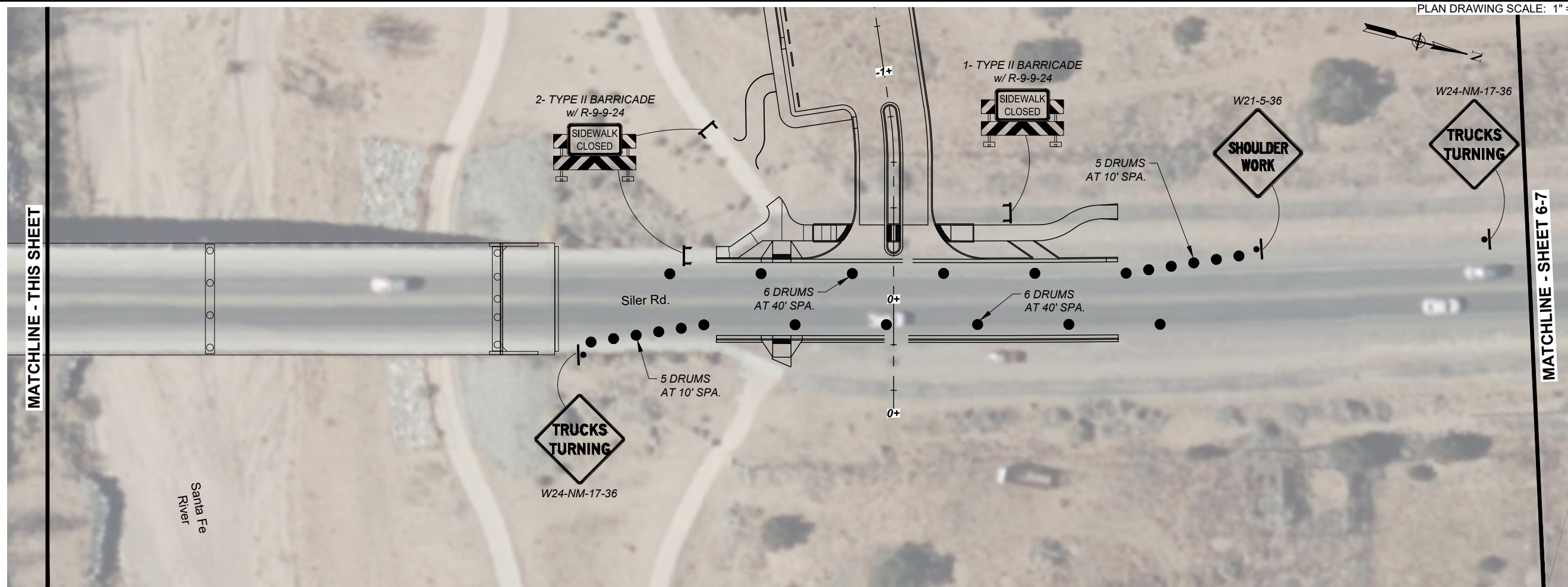
**ISSUE/REVISION**

I/R	DATE	DESCRIPTION





PLAN DRAWING SCALE: 1" = 50'  
 PLAN DRAWING SCALE: 1" = 50'



MATCHLINE - THIS SHEET

MATCHLINE - THIS SHEET

MATCHLINE - SHEET 6-7



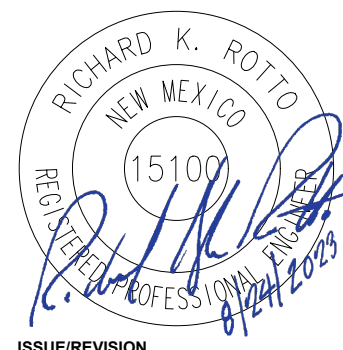
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 COUNTY  
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 Santa Fe, New Mexico 87501  
 T 505.986.6200  
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 AECOM  
 150 Washington Avenue, Suite 201  
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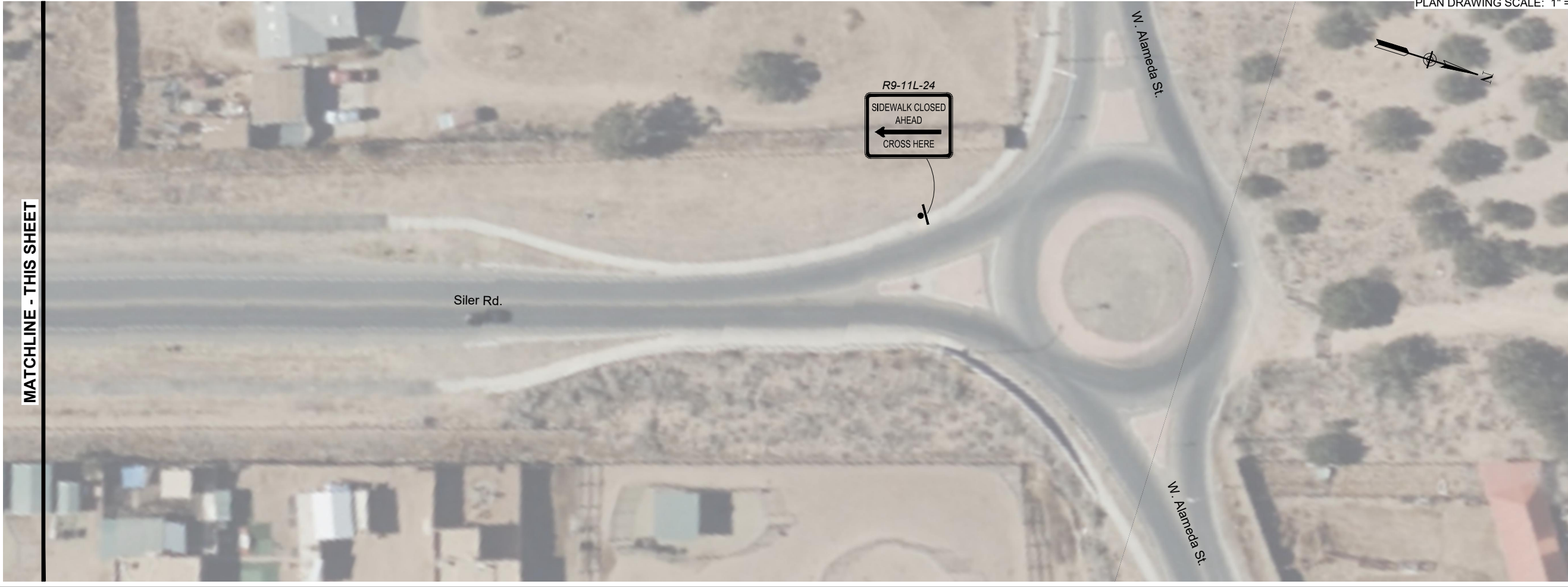


**PROJECT NUMBER**  
 357-7708  
**SHEET TITLE**  
 TRAFFIC CONTROL  
 SILER ROAD  
**SHEET NUMBER**  
 6 - 6





PLAN DRAWING SCALE: 1" = 50'



PLAN DRAWING SCALE: 1" = 50'



**PROJECT**  
SANTA FE RIVER  
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(SECTION B)

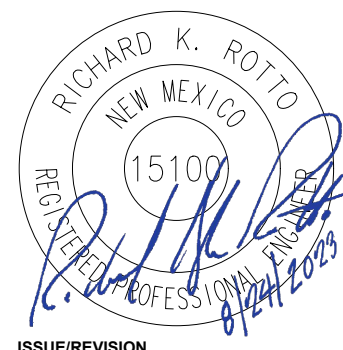
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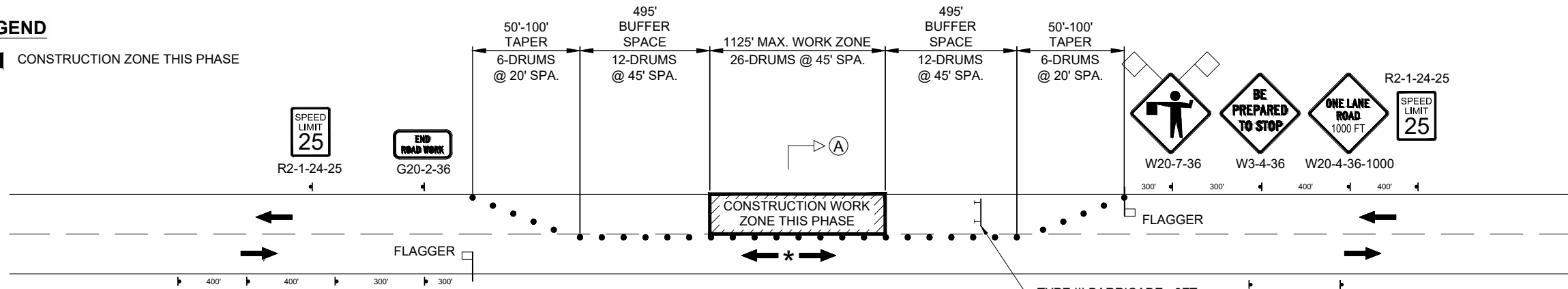
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357-7708

**SHEET TITLE**  
TRAFFIC CONTROL  
SILER ROAD

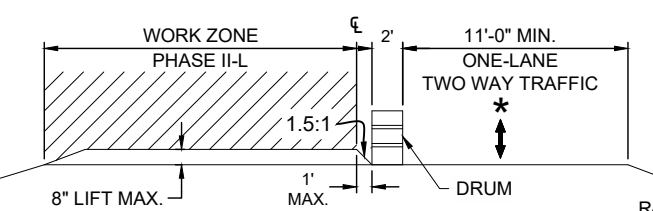
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6 - 7

**LEGEND**

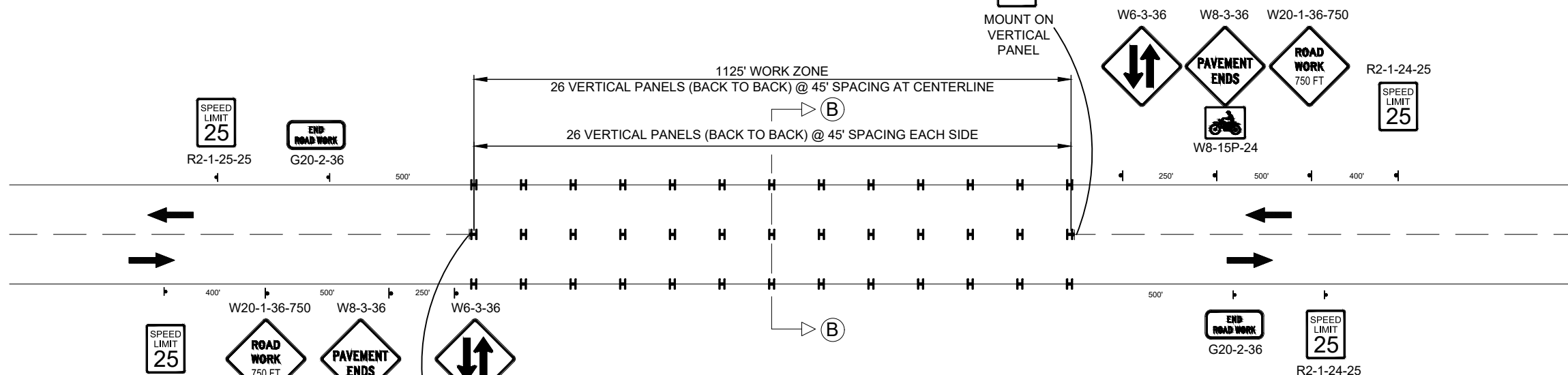
CONSTRUCTION ZONE THIS PHASE



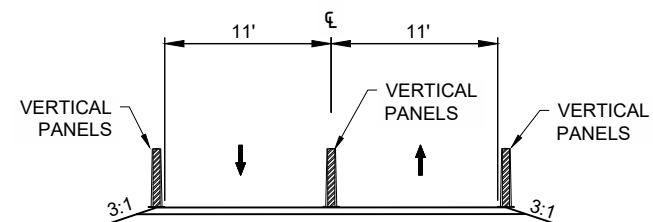
**PHASE II-A ~ CONSTRUCTION HOURS**



**PHASE II-A ~ CONSTRUCTION**



**PHASE II-A ~ NON-CONSTRUCTION HOURS**



**PHASE II-A ~ NON-CONSTRUCTION**

TUBULAR FLEXIBLE TRAFFIC MARKERS SHALL ONLY BE USED DURING PHASE 2 CONSTRUCTION.

\* DIRECTION OF TRAFFIC FLOW DETERMINED BY PILOT CAR AND/OR FLAGGER



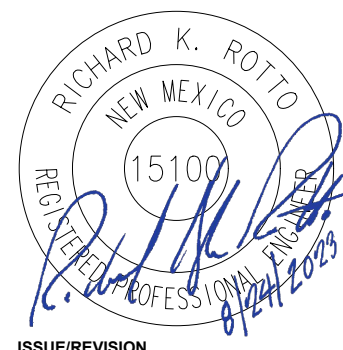
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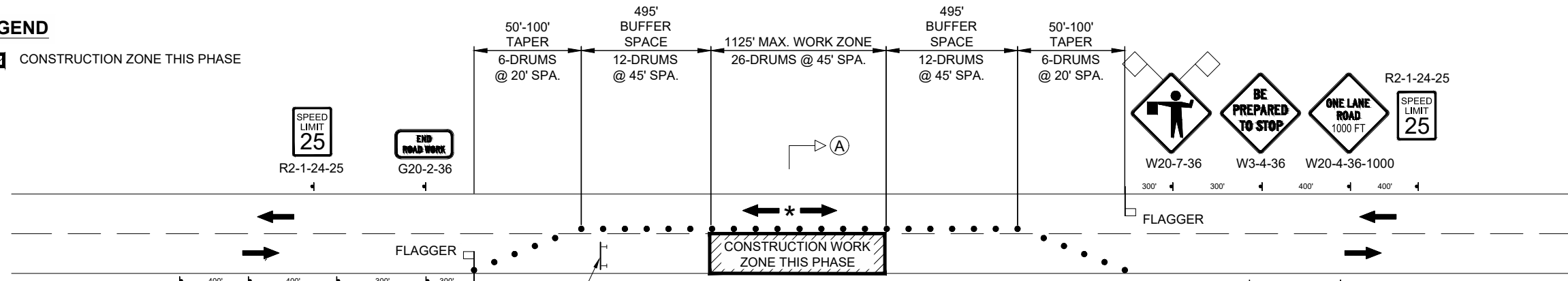
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 357-7708

**SHEET TITLE**  
 TRAFFIC CONTROL  
 PHASE II-A  
 LEFT LANE CLOSURE

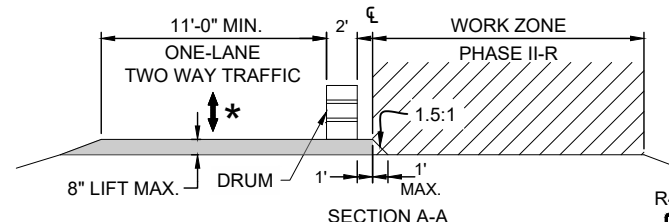
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 6 - 8

**LEGEND**

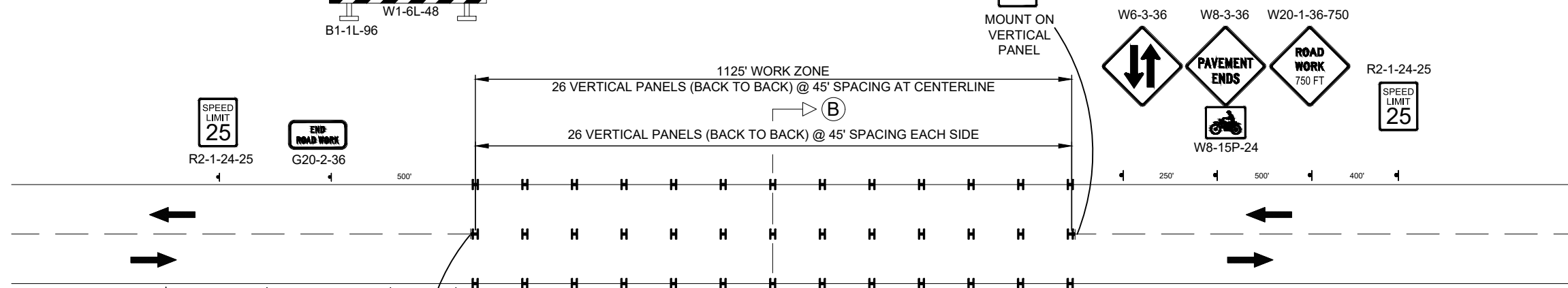
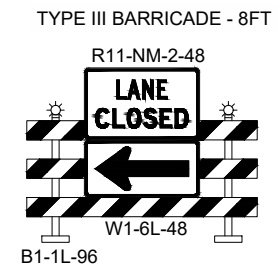
CONSTRUCTION ZONE THIS PHASE



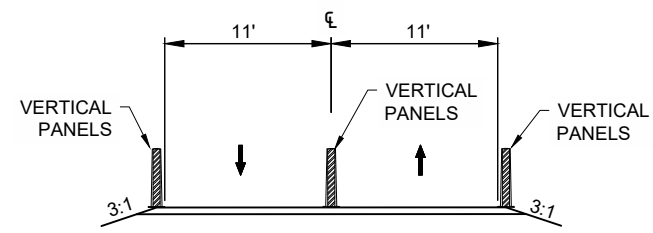
**PHASE II-B ~ CONSTRUCTION HOURS**



\* DIRECTION OF TRAFFIC FLOW DETERMINED BY PILOT CAR AND/OR FLAGGER



**PHASE II-B ~ NON-CONSTRUCTION HOURS**



**PHASE II-B ~ NON-CONSTRUCTION**

TUBULAR FLEXIBLE TRAFFIC MARKERS SHALL ONLY BE USED DURING PHASE 2 CONSTRUCTION.



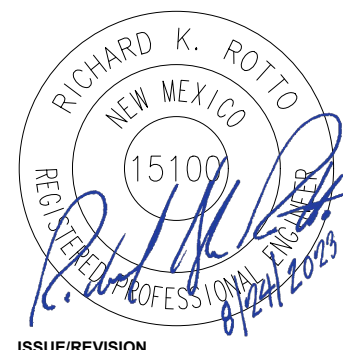
**PROJECT**  
 SANTA FE RIVER  
 GREENWAY PROJECT  
 (SECTION B)

**CLIENT**  
 SANTA FE  
 COUNTY  
 100 Catron St.  
 Santa Fe, New Mexico 87501  
 T 505.986.6200  
 www.santafecountynm.gov

**ENGINEERING CONSULTANT**  
 AECOM  
 150 Washington Avenue, Suite 201  
 Santa Fe, New Mexico 87501  
 T 505.855.7500  
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**ISSUE/REVISION**

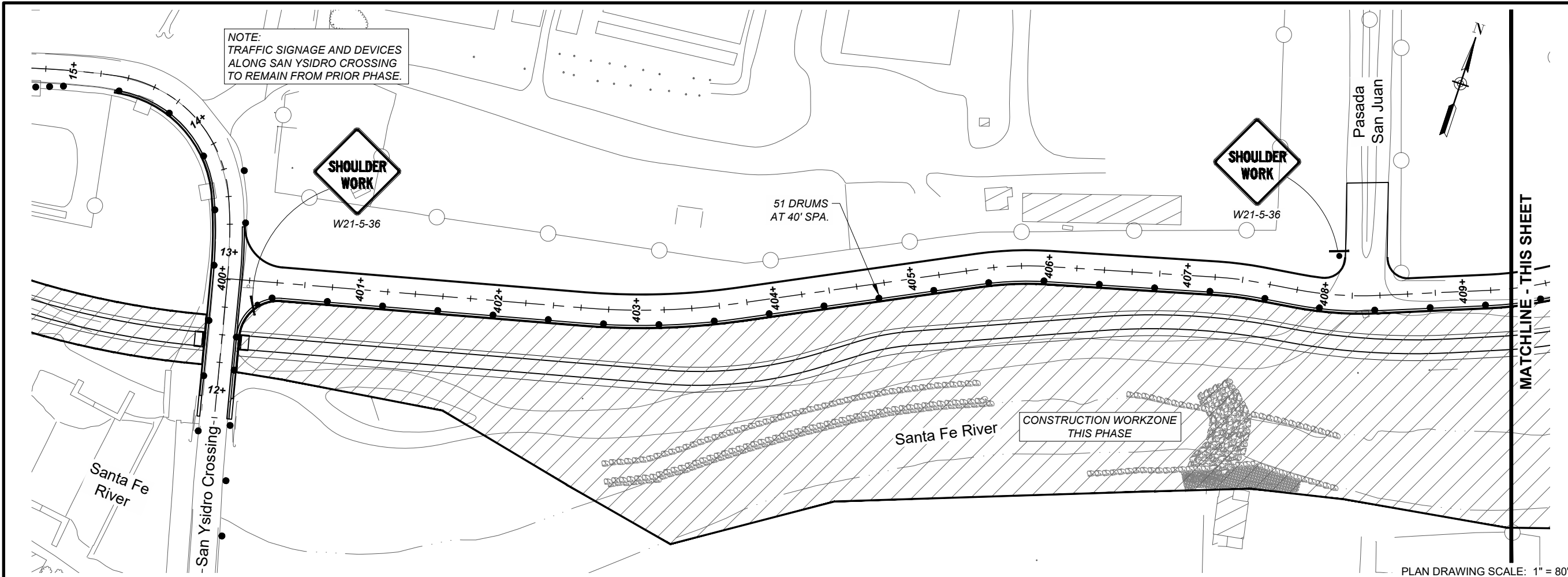
I/R	DATE	DESCRIPTION

**KEY PLAN**

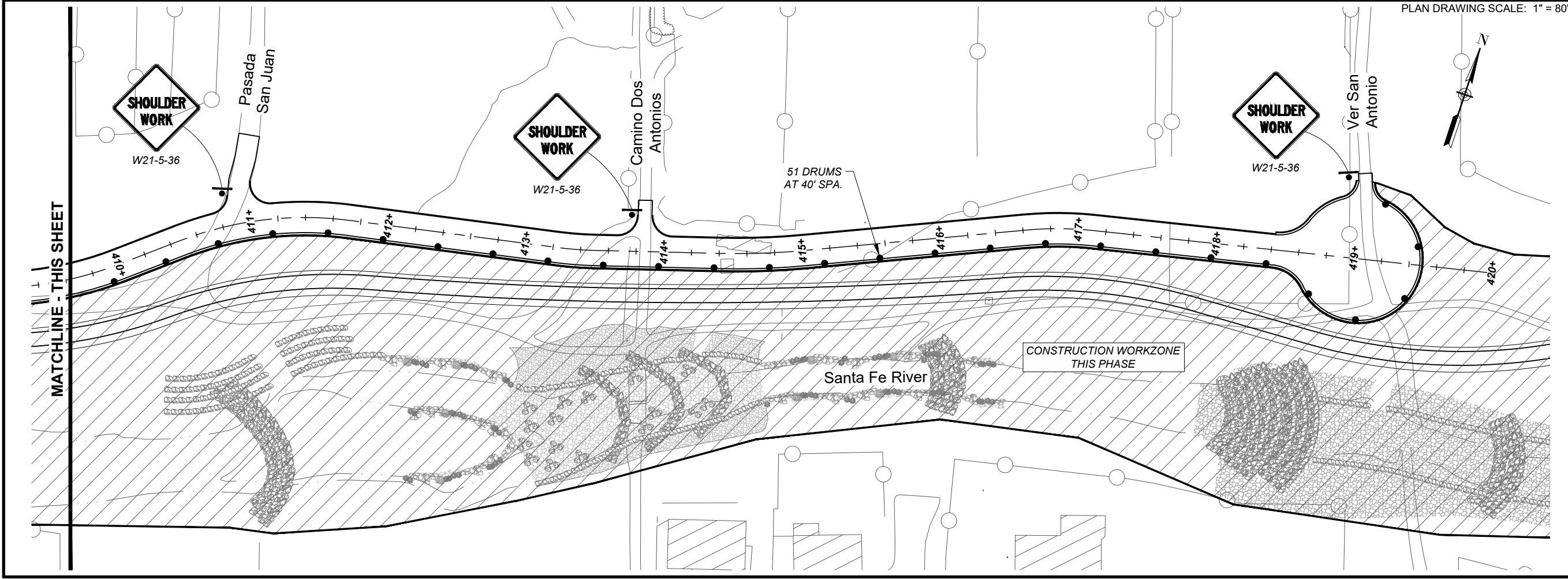
**PROJECT NUMBER**  
 357-7708

**SHEET TITLE**  
 TRAFFIC CONTROL  
 PHASE II-B  
 RIGHT LANE CLOSURE

**SHEET NUMBER**  
 6 - 9



PLAN DRAWING SCALE: 1" = 80'  
PLAN DRAWING SCALE: 1" = 80'



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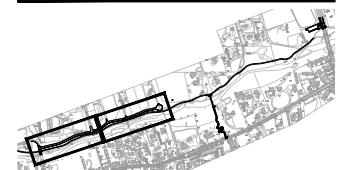
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**ISSUE/REVISION**

I/R	DATE	DESCRIPTION

**KEY PLAN**



**PROJECT NUMBER**  
357-7708

**SHEET TITLE**  
TRAFFIC CONTROL  
PHASE III

**SHEET NUMBER**  
6 - 10

**PERMANENT SIGNING NOTES:**

1. THE CONTRACTOR SHALL STAKE OUT ALL NEW SIGN LOCATIONS FOR APPROVAL BY THE SANTA FE COUNTY PROJECT MANAGER PRIOR TO INSTALLATION. THIS LAYOUT WILL BE CONSIDERED AS INCIDENTAL TO ITEM 701000, PANEL SIGNS. NO SEPARATE PAYMENT WILL BE MADE.
2. STEEL POST FOR PANEL SIGNS SHALL BE 2.25 X 2.25.

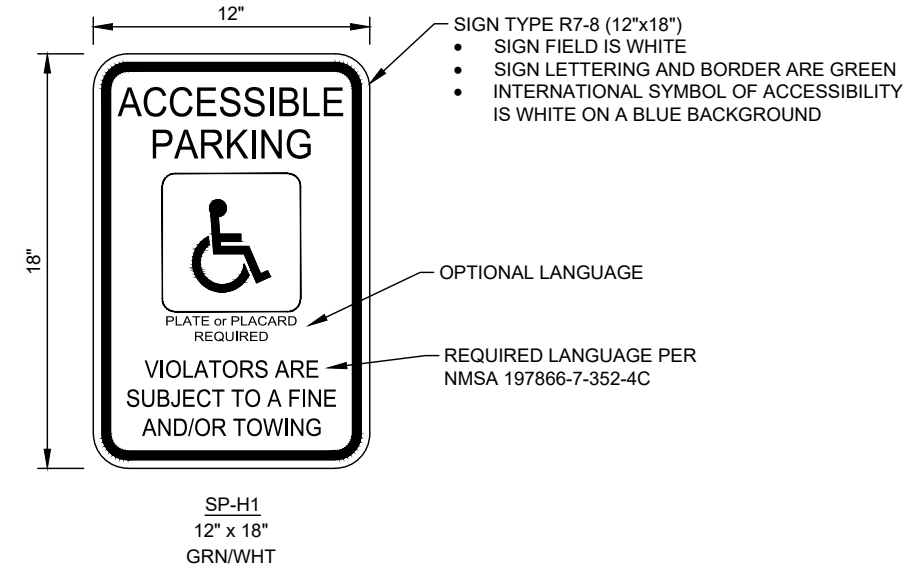
**PERMANENT STRIPING AND MARKING NOTES:**

1. THE CONTRACTOR SHALL MARK THE LAYOUT OF ALL STRIPING AND PAVEMENT MARKINGS AND SHALL OBTAIN CONCURRENCE FROM THE SANTA FE COUNTY PROJECT MANAGER BEFORE APPLYING THE FINAL STRIPING AND MARKINGS. THIS LAYOUT WILL BE CONSIDERED AS INCIDENTAL TO THE COST OF EACH SPECIFIC PAVEMENT MARKING AS APPROPRIATE. NO SEPARATE PAYMENT WILL BE MADE.

**LIST OF INCIDENTAL ITEMS:**

- STAKE OUT OF SIGN LOCATIONS.
- LAYOUT OF STRIPING AND PAVEMENT MARKINGS.

**SIGNFACE DETAILS**



**REGISTRATION**



**ISSUE/REVISION**

I/R	DATE	DESCRIPTION

**KEY PLAN**

**BASE BID - SUMMARY OF QUANTITIES  
PERMANENT SIGNING AND STRIPING ITEMS**

ITEM No.	DESCRIPTION	UNITS	USE
701000	PANEL SIGNS	S.F.	110
701100	STEEL POST AND BASE POST FOR ALUMINUM PANEL SIGNS	L.F.	325
704000	RETROREFLECTORIZED PAINTED MARKINGS 4"	L.F.	8460
704704	HOT THERMOPLASTIC PAVEMENT MARKING 24"	L.F.	154
704724	HOT THERMOPLASTIC PAVEMENT MARKING WORD (XING)	EACH	4
704732	HOT THERMOPLASTIC PAVEMENT MARKING BIKE SYMBOL (BIKEWAY)	EACH	4
704733	HOT THERMOPLASTIC PAVEMENT MARKING HANDICAPPED SYMBOL	EACH	2

**BID ALT. #1 - SUMMARY OF QUANTITIES  
PERMANENT SIGNING AND STRIPING ITEMS**

ITEM No.	DESCRIPTION	UNITS	USE
701000	PANEL SIGNS	S.F.	20
701100	STEEL POST AND BASE POST FOR ALUMINUM PANEL SIGNS	L.F.	60
704706	HOT THERMOPLASTIC PAVEMENT MARKINGS 12"	L.F.	134
704704	HOT THERMOPLASTIC PAVEMENT MARKING 24"	L.F.	22

**BASE BID - PERMANENT SIGN INSTALLATION SCHEDULE**

SIGN CODE	DIRECTION	COLOR		701000 - PANEL SIGNS							701100 - STEEL POST AND BASE POST FOR ALUMINUM PANEL SIGNS							INSTALLATION NOTES	
		LEGEND	BACKGND.	NO. OF SIGNS	SIGN DIMENSIONS				SIGN AREA	TOTAL SIGN AREA	SIGN POST LENGTHS				BASE POSTS		TOTAL LENGTH		
					WIDTH	HEIGHT	OCTAGON	DIAMOND			LEFT	CENTER	RIGHT	TOTAL	QTY.	LENGTH			
					IN.	IN.	IN.	IN.			L.F.	L.F.	L.F.	L.F.	EACH	L.F.			L.F.
R1-1-30	FATD	WHITE	RED	5			30		4.91	24.54		11.00			11.00	5	3.00	70.00	TRAFFIC SIDE: RIGHT
R1-1-18	FATD	WHITE	RED	2			18		1.77	3.53		11.00			11.00	2	3.00	28.00	RIVER TRAIL, SAN YSIDRO
R4-7	FATD	BLACK	WHITE	2	24	30			5.00	10.00		11.00			11.00	2	3.00	28.00	FACING APPROACH TRAFFIC
R5-3	FATD	BLACK	WHITE	2	24	24			4.00	8.00		11.00			11.00	2	3.00	28.00	FACING EAST
OM4-2	FATD	RED	BLACK	6				18	2.25	13.50		11.00			11.00	6	3.00	84.00	FACING SOUTH
R7-8a	FATD	GREEN	WHITE	2	12	6			0.50	1.00					0.00			0.00	MOUNT WITH SP-H1 (BELOW)
SP-H1	FATD	GREEN	WHITE	2	12	18			1.50	3.00		11.00			11.00	2	3.00	28.00	HANDICAP PARKING
W14-1-30	FATD	BLACK	YELLOW	2				30	6.25	12.50					0.00			0.00	MOUNT BELOW EXIST. STREET SIGN
W11-15	FATD	BLACK	YELLOW	4				30	6.25	25.00		11.00			11.00	4	3.00	56.00	FACING APPROACH TRAFFIC
W16-7P	FATD	BLACK	YELLOW	4	24	12			2.00	8.00					0.00			0.00	MOUNT WITH W11-15 (BELOW)
<b>BASE BID TOTAL</b>										<b>109.10</b>								<b>322.00</b>	
<b>BASE BID USE</b>										<b>110</b>								<b>325</b>	

FATD = FACING APPROACH TRAFFIC DIRECTION; FDTD = FACING DEPARTURE TRAFFIC DIRECTION; FSTD = FACING SIDE TRAFFIC DIRECTION

**BID ALT. #1 - PERMANENT SIGN INSTALLATION SCHEDULE**

SIGN CODE	DIRECTION	COLOR		701000 - PANEL SIGNS							701100 - STEEL POST AND BASE POST FOR ALUMINUM PANEL SIGNS							INSTALLATION NOTES	
		LEGEND	BACKGND.	NO. OF SIGNS	SIGN DIMENSIONS				SIGN AREA	TOTAL SIGN AREA	SIGN POST LENGTHS				BASE POSTS		TOTAL LENGTH		
					WIDTH	HEIGHT	OCTAGON	DIAMOND			LEFT	CENTER	RIGHT	TOTAL	QTY.	LENGTH			
					IN.	IN.	IN.	IN.			L.F.	L.F.	L.F.	L.F.	EACH	L.F.			L.F.
R1-1-18	FATD	WHITE	RED	1			18		1.77	1.77		11.00			11.00	1	3.00	14.00	RIVER TRAIL SIDE: RIGHT
R1-1-30	FATD	WHITE	RED	3			30		4.91	14.73		11.00			11.00	3	3.00	42.00	TRAFFIC SIDE: RIGHT
R1-3P	FATD	WHITE	RED	4	18	6			0.75	3.00					0.00			0.00	MOUNT BELOW R1-1
<b>BASE BID TOTAL</b>										<b>19.50</b>								<b>56.00</b>	
<b>BASE BID USE</b>										<b>20</b>								<b>60</b>	

FATD = FACING APPROACH TRAFFIC DIRECTION; FDTD = FACING DEPARTURE TRAFFIC DIRECTION; FSTD = FACING SIDE TRAFFIC DIRECTION



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(SECTION B)

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COUNTY



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Santa Fe, New Mexico 87501  
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**REGISTRATION**



08-24-2023

**ISSUE/REVISION**

I/R	DATE	DESCRIPTION

**KEY PLAN**

**PROJECT NUMBER**

357-7708

**SHEET TITLE**

PERMANENT  
SIGNING AND STRIPING  
QUANTITIES

**SHEET NUMBER**

7 - 2

**BASE BID - ITEM No. 704000  
RETROREFLECTORIZED PAINTED MARKINGS 4"**

ALIGNMENT	STATION TO STATION	LOCATION	L.F.	REMARKS
CL PASADA SAN JUAN	400+44.91 - 418+42.11	CENTER	3,594	SOLID DOUBLE YELLOW
CL TRAILHEAD	TRAILHEAD	PARKING	633	SOLID WHITE (PARKING LANES)
<b>BASE BID SUB-TOTAL</b>			<b>4,227.65</b>	
<b>X2 APPLICATIONS</b>			<b>8,455.30</b>	
<b>BASE BID USE</b>			<b>8,460</b>	

**BASE BID - ITEM No. 704704  
HOT THERMOPLASTIC PAVEMENT MARKING 24"**

ALIGNMENT	STATION	LOCATION	L.F.	REMARKS
CL PASADA SAN JUAN	400+44.91	LT	11	STOP BAR, TO SAN YSIDRO
CL RIVER TRAIL	200+15.00	CL	50	CROSSWALK, 5 @ 10' ACROSS SAN YSIDRO
CL TRAILHEAD	-00+29.00	CL	42	CROSSWALK, 6 @ 7'
CL TRAILHEAD	00+00.00	RT	40	CROSSWALK, 5 @ 8' ACROSS SILER
CL TRAILHEAD	-0+36.00	RT	11	STOP BAR, TO SILER
<b>BASE BID SUB-TOTAL</b>			<b>154.00</b>	
<b>BASE BID USE</b>			<b>154</b>	

**BASE BID - ITEM No. 704733**

**HOT THERMOPLASTIC PAVEMENT MARKING HANDICAPPED SYMBOL**

ALIGNMENT	STATION TO STATION	LOCATION	EACH	REMARKS
TRAILHEAD	TRAILHEAD	PARKING	2	HANDICAP SYMBOL
<b>BASE BID SUB-TOTAL</b>			<b>2</b>	
<b>BASE BID USE</b>			<b>2</b>	

**BASE BID - ITEM No. 704724**

**HOT THERMOPLASTIC PAVEMENT MARKING WORD (XING)**

ALIGNMENT	STATION	LOCATION	EACH	REMARKS
SAN YSIDRO CR	11+26.50; 5' RT	NB	1	NORTHBOUND SAN YSIDRO CR.
SAN YSIDRO CR	13+44.75; 5' LT	SB	1	SOUTHBOUND SAN YSIDRO CR.
TRAILHEAD	0+05.50; 157' RT	NB	1	NORTHBOUND SILER RD.
TRAILHEAD	-0+05.50; 59' LT	SB	1	SOUTHBOUND SILER RD.
<b>BASE BID SUB-TOTAL</b>			<b>4</b>	
<b>BASE BID USE</b>			<b>4</b>	

**BASE BID - ITEM No. 704731**

**HOT THERMOPLASTIC MARKING LANE SYMBOL (BIKEWAY)**

ALIGNMENT	STATION	LOCATION	EACH	REMARKS
SAN YSIDRO CR	10+86.50; 5' RT	NB	1	NORTHBOUND SAN YSIDRO CR.
SAN YSIDRO CR	13+84.75; 5' LT	SB	1	SOUTHBOUND SAN YSIDRO CR.
TRAILHEAD	0+05.50; 197' RT	NB	1	NORTHBOUND SILER RD.
TRAILHEAD	-0+05.50; 99' LT	SB	1	SOUTHBOUND SILER RD.
<b>BASE BID SUB-TOTAL</b>			<b>4</b>	
<b>BASE BID USE</b>			<b>4</b>	

**BID ALT. #1 - ITEM No. 704706  
HOT THERMOPLASTIC PAVEMENT MARKINGS 12"**

ALIGNMENT	STATION	LOCATION	L.F.	REMARKS
CL CONNECTOR TRAIL	308+62.00	RT	23	CROSSWALK ACROSS AGUA FRIA ST
CL CONNECTOR TRAIL	308+62.00	LT	24	CROSSWALK ACROSS AGUA FRIA ST
CL CONNECTOR TRAIL	308+74.00	LT	50	CROSSWALK ACROSS AGUA FRIA ST
CL CONNECTOR TRAIL	308+81.00	LT	37	CROSSWALK ACROSS AGUA FRIA ST
<b>BID ALT. #1 SUB-TOTAL</b>			<b>134.00</b>	
<b>BID ALT. #1 USE</b>			<b>134</b>	

**BID ALT. #1 - ITEM No. 704704**

**HOT THERMOPLASTIC PAVEMENT MARKING 24"**

ALIGNMENT	STATION	LOCATION	L.F.	REMARKS
CL CONNECTOR TRAIL	308+67.00	RT	11	STOP BAR, AT AGUA FRIA ST.
CL CONNECTOR TRAIL	308+87.00	LT	11	STOP BAR, AT AGUA FRIA ST.
<b>BID ALT. #1 SUB-TOTAL</b>			<b>22.00</b>	
<b>BID ALT. #1 USE</b>			<b>22</b>	



PROJECT

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ISSUE/REVISION

I/R	DATE	DESCRIPTION

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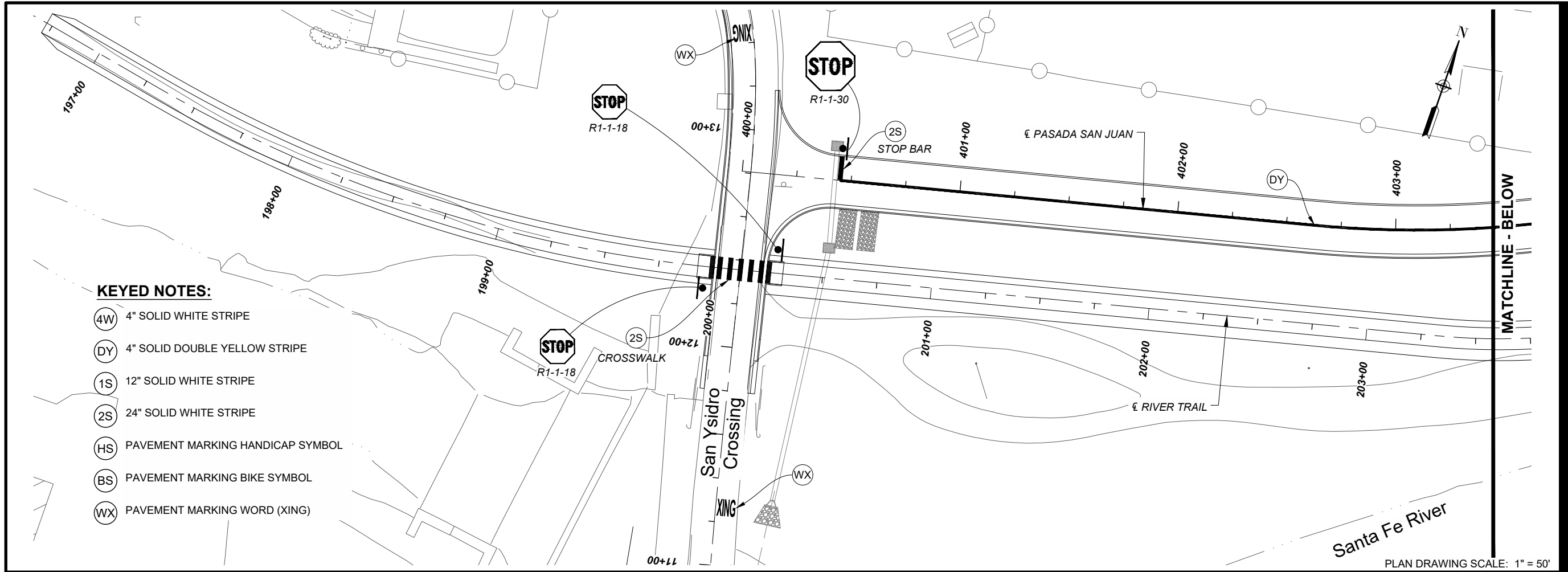
357-7708

SHEET TITLE

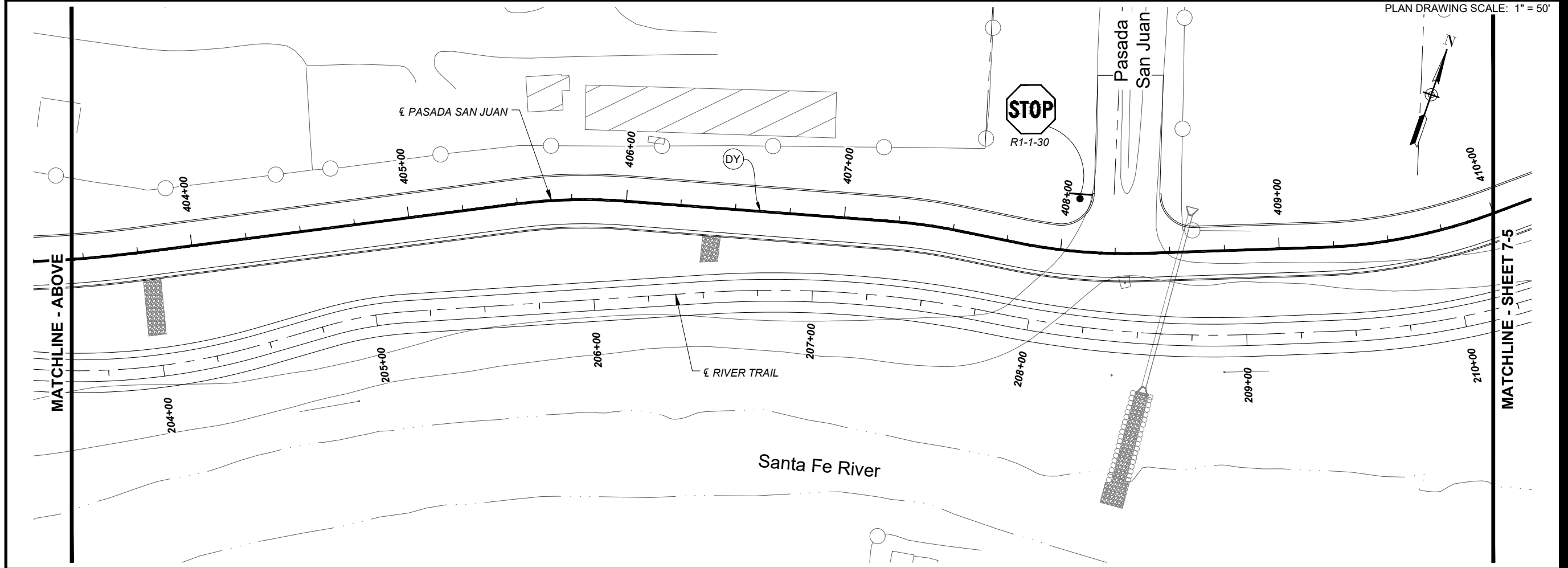
PERMANENT  
SIGNING AND STRIPING  
QUANTITIES

SHEET NUMBER

7 - 3



PLAN DRAWING SCALE: 1" = 50'  
PLAN DRAWING SCALE: 1" = 50'



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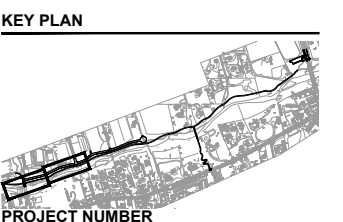
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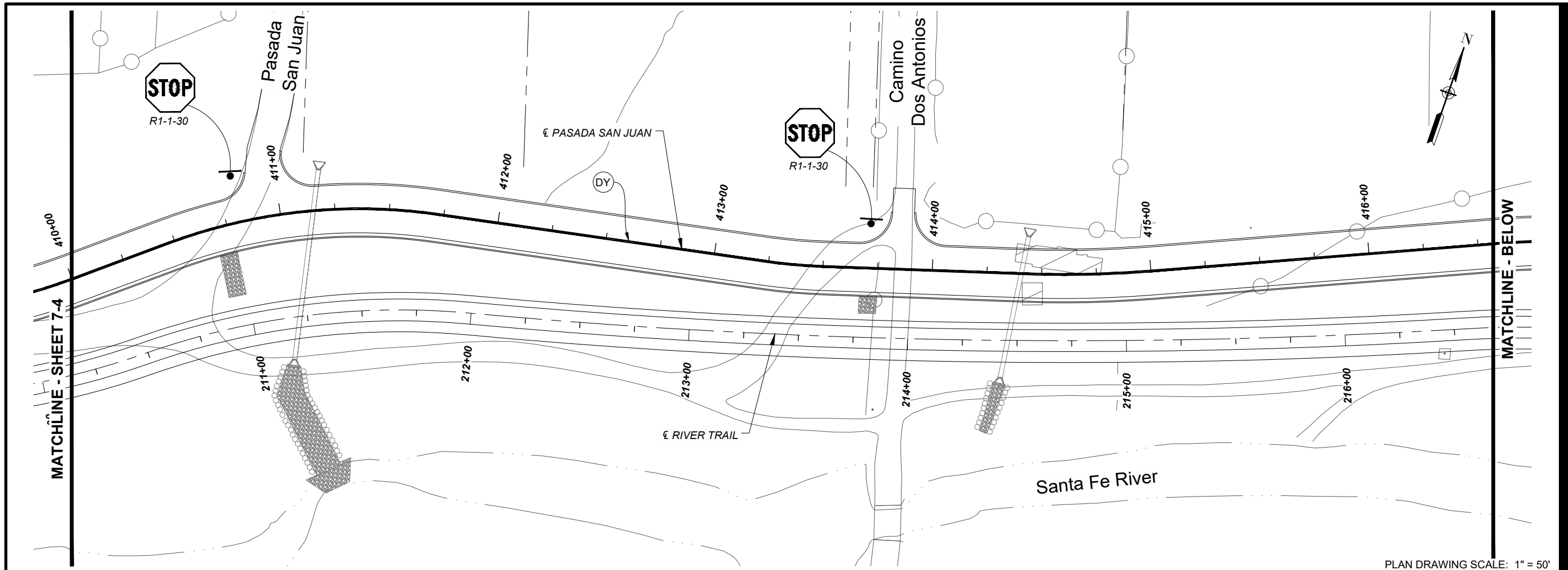
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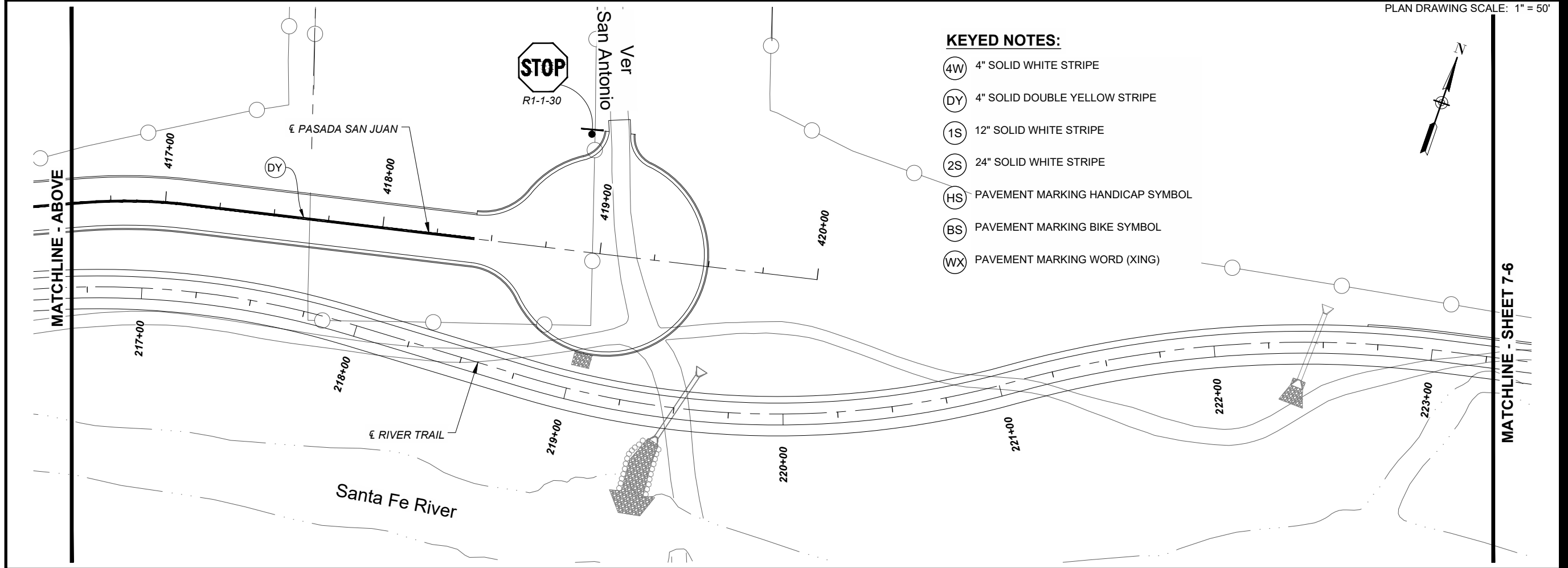


**PROJECT NUMBER**  
357-7708  
**SHEET TITLE**  
PERMANENT  
SIGNING AND STRIPING  
PLAN  
**SHEET NUMBER**  
7 - 4





PLAN DRAWING SCALE: 1" = 50'  
PLAN DRAWING SCALE: 1" = 50'



**KEYED NOTES:**

- (4W) 4" SOLID WHITE STRIPE
- (DY) 4" SOLID DOUBLE YELLOW STRIPE
- (1S) 12" SOLID WHITE STRIPE
- (2S) 24" SOLID WHITE STRIPE
- (HS) PAVEMENT MARKING HANDICAP SYMBOL
- (BS) PAVEMENT MARKING BIKE SYMBOL
- (WX) PAVEMENT MARKING WORD (XING)



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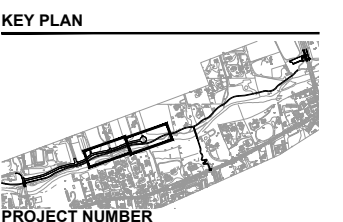
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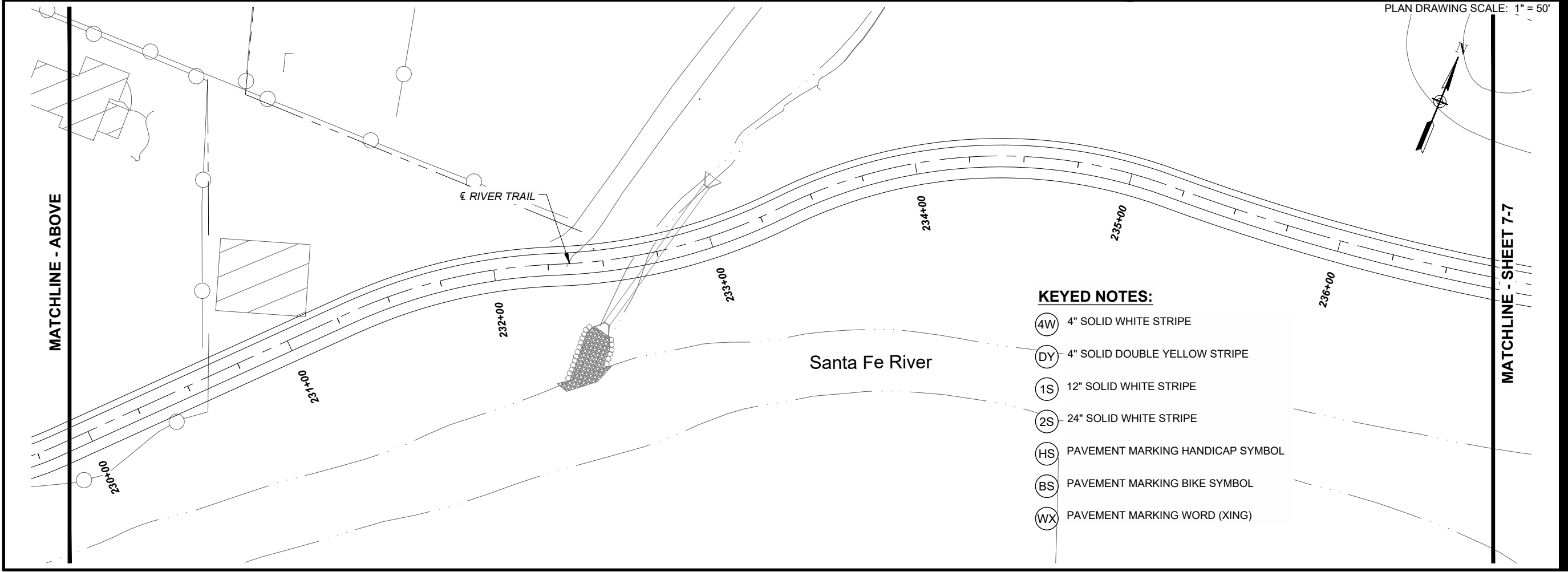
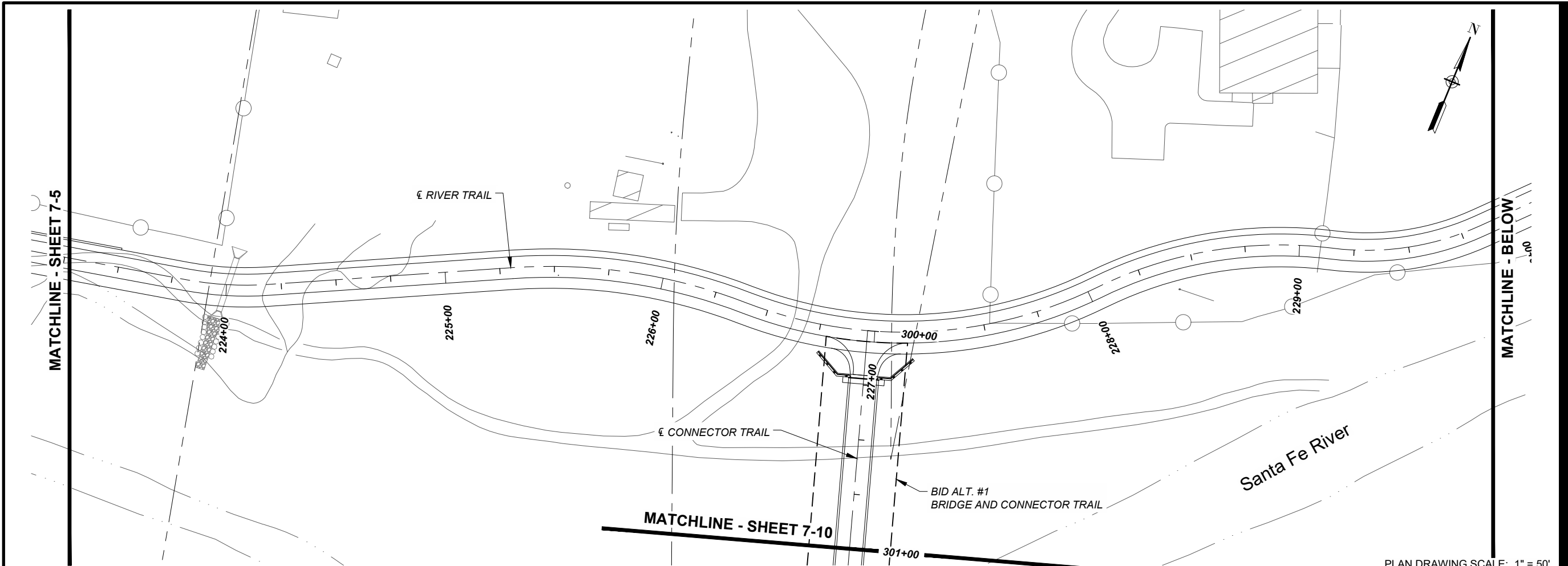


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I/R	DATE	DESCRIPTION



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**SHEET TITLE**  
PERMANENT  
SIGNING AND STRIPING  
PLAN  
**SHEET NUMBER**  
7 - 5



- KEYED NOTES:**
- (4W) 4" SOLID WHITE STRIPE
  - (DY) 4" SOLID DOUBLE YELLOW STRIPE
  - (1S) 12" SOLID WHITE STRIPE
  - (2S) 24" SOLID WHITE STRIPE
  - (HS) PAVEMENT MARKING HANDICAP SYMBOL
  - (BS) PAVEMENT MARKING BIKE SYMBOL
  - (WX) PAVEMENT MARKING WORD (XING)



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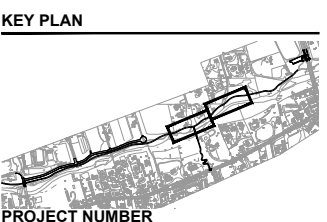
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PLAN DRAWING SCALE: 1" = 50'

**REGISTRATION**

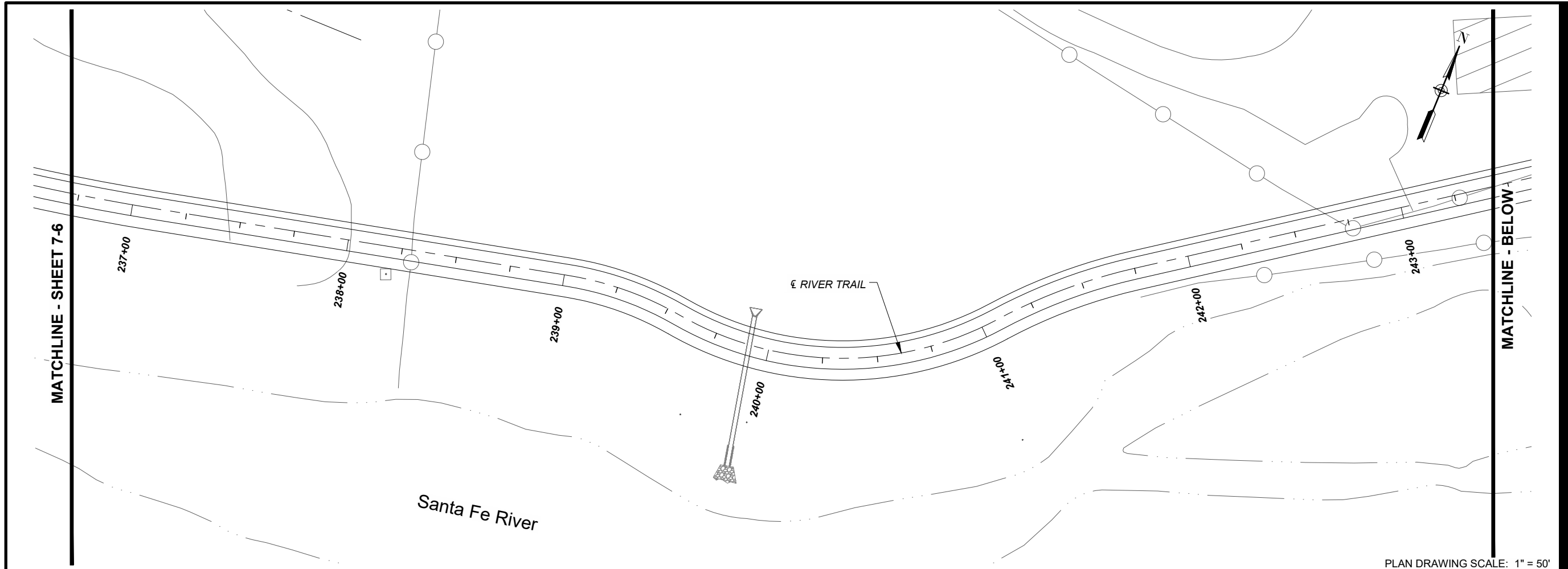


**ISSUE/REVISION**

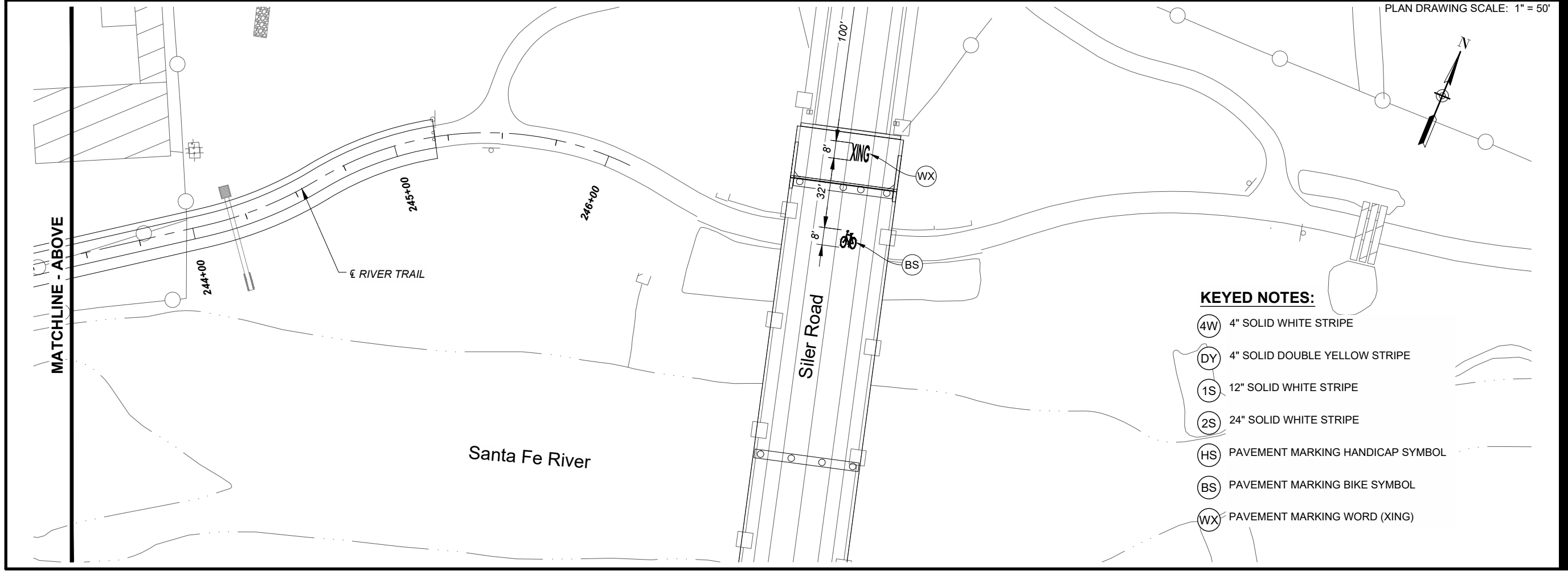
I/R	DATE	DESCRIPTION



**PROJECT NUMBER**  
357-7708  
**SHEET TITLE**  
PERMANENT  
SIGNING AND STRIPING  
PLAN  
**SHEET NUMBER**  
7 - 6



PLAN DRAWING SCALE: 1" = 50'



PLAN DRAWING SCALE: 1" = 50'

**KEYED NOTES:**

- (4W) 4" SOLID WHITE STRIPE
- (DY) 4" SOLID DOUBLE YELLOW STRIPE
- (1S) 12" SOLID WHITE STRIPE
- (2S) 24" SOLID WHITE STRIPE
- (HS) PAVEMENT MARKING HANDICAP SYMBOL
- (BS) PAVEMENT MARKING BIKE SYMBOL
- (WX) PAVEMENT MARKING WORD (XING)



**PROJECT**  
SANTA FE RIVER  
GREENWAY PROJECT  
(SECTION B)

**CLIENT**  
SANTA FE  
COUNTY  
100 Catron St.  
Santa Fe, New Mexico 87501  
T 505.986.6200  
www.santafecountynm.gov



**ENGINEERING CONSULTANT**  
AECOM  
150 Washington Avenue, Suite 201  
Santa Fe, New Mexico 87501  
T 505.855.7500  
www.aecom.com

**SUBCONSULTANTS**  
GEOTECHNICAL  
TERRACON  
T 505.797.4287  
LANDSCAPE ARCHITECTURE  
DESIGN OFFICE  
T 505.983.1415  
TOPOGRAPHIC MAPPING  
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**ISSUE/REVISION**

I/R	DATE	DESCRIPTION

**KEY PLAN**



**PROJECT NUMBER**

357-7708

**SHEET TITLE**

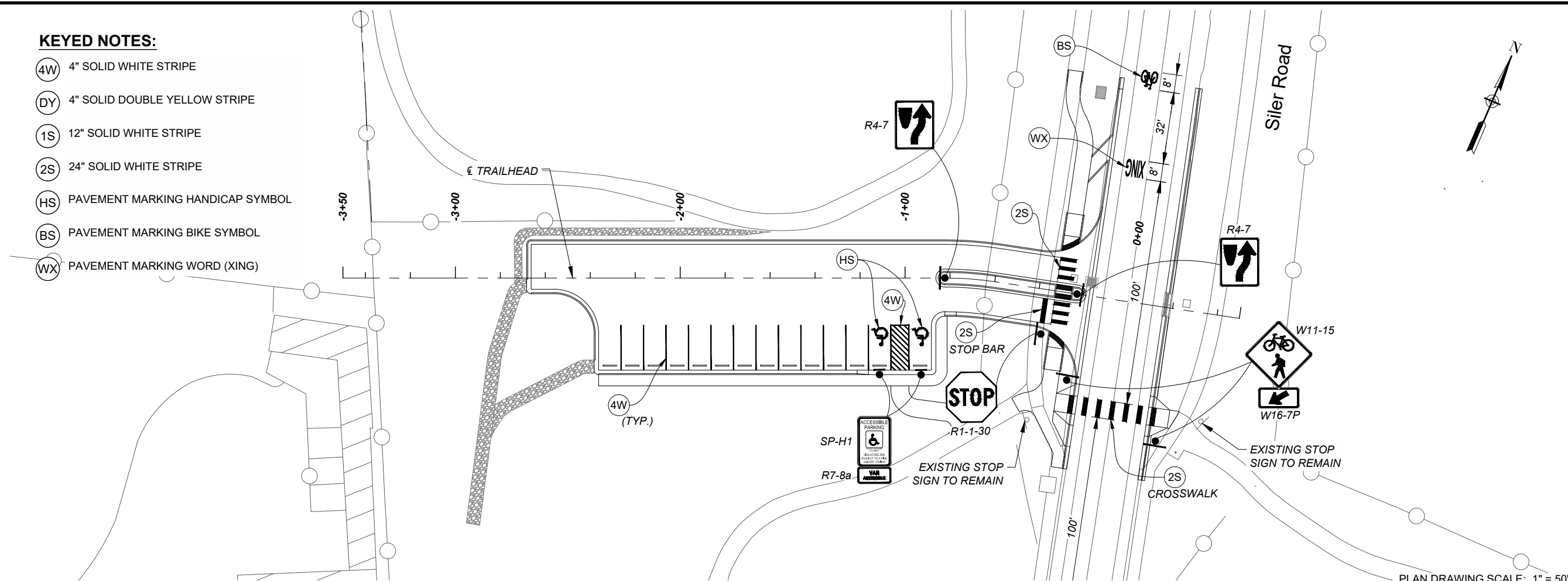
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SIGNING AND STRIPING  
PLAN

**SHEET NUMBER**

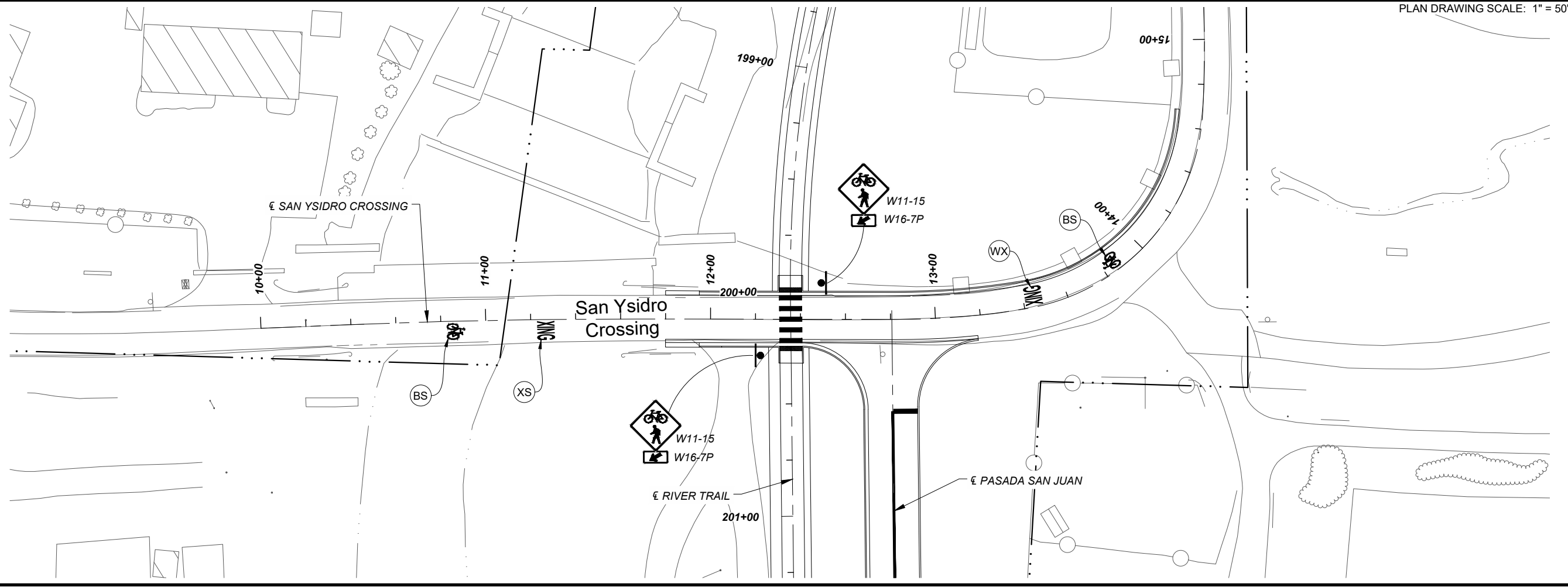
7 - 7

**KEYED NOTES:**

- (4W) 4" SOLID WHITE STRIPE
- (DY) 4" SOLID DOUBLE YELLOW STRIPE
- (1S) 12" SOLID WHITE STRIPE
- (2S) 24" SOLID WHITE STRIPE
- (HS) PAVEMENT MARKING HANDICAP SYMBOL
- (BS) PAVEMENT MARKING BIKE SYMBOL
- (WX) PAVEMENT MARKING WORD (XING)



PLAN DRAWING SCALE: 1" = 50'  
PLAN DRAWING SCALE: 1" = 50'



**PROJECT**  
SANTA FE RIVER  
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(SECTION B)

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COUNTY  
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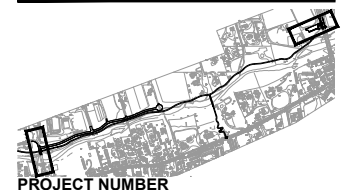
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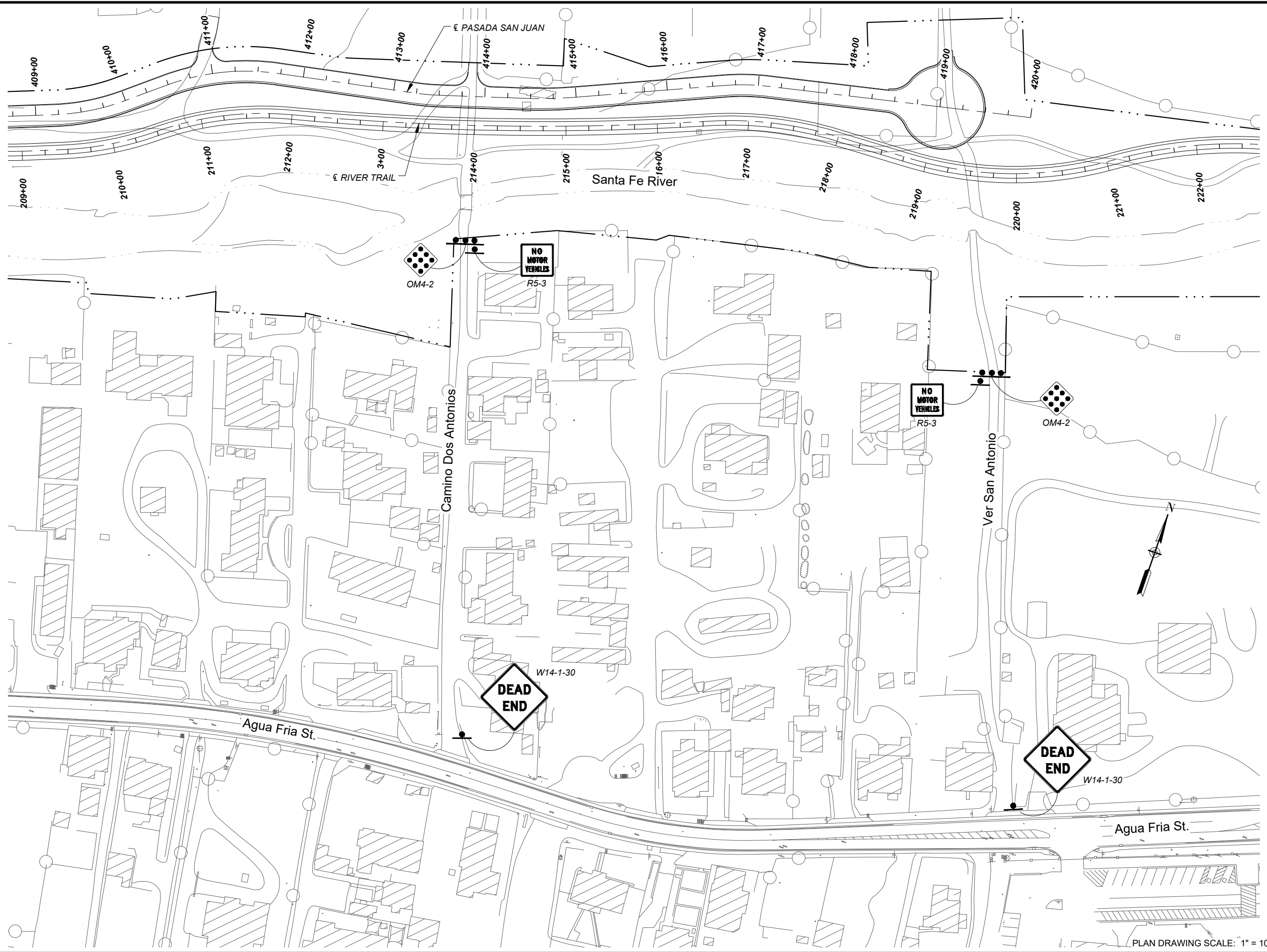
**ISSUE/REVISION**

I/R	DATE	DESCRIPTION

**KEY PLAN**



**PROJECT NUMBER**  
357-7708  
**SHEET TITLE**  
PERMANENT  
SIGNING AND STRIPING  
PLAN  
**SHEET NUMBER**  
7 - 8



PLAN DRAWING SCALE: 1" = 100'



**PROJECT**  
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SANTA FE  
COUNTY  
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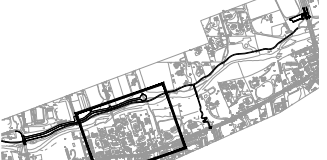


08-24-2023

**ISSUE/REVISION**

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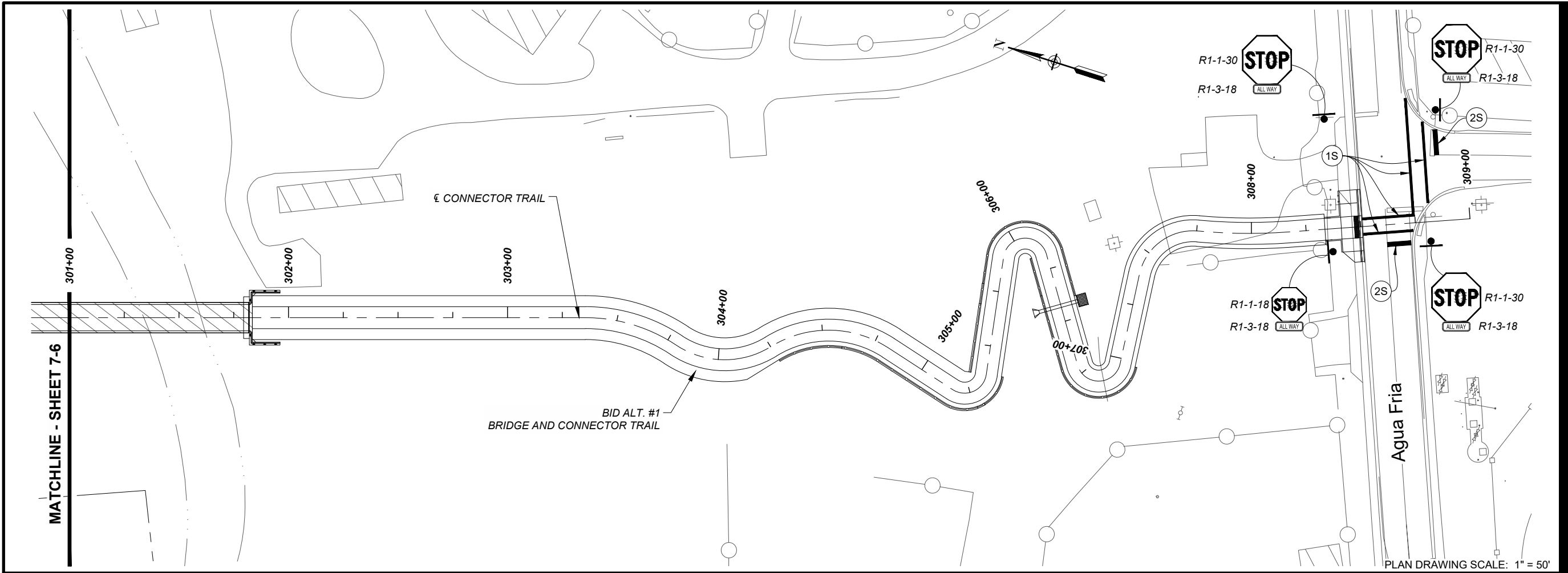
**KEY PLAN**



**PROJECT NUMBER**  
357-7708

**SHEET TITLE**  
PERMANENT  
SIGNING AND STRIPING  
PLAN

**SHEET NUMBER**  
7 - 9



**KEYED NOTES:**

- (4W) 4" SOLID WHITE STRIPE
- (DY) 4" SOLID DOUBLE YELLOW STRIPE
- (1S) 12" SOLID WHITE STRIPE
- (2S) 24" SOLID WHITE STRIPE
- (HS) PAVEMENT MARKING HANDICAP SYMBOL
- (BS) PAVEMENT MARKING BIKE SYMBOL
- (WX) PAVEMENT MARKING WORD (XING)



**PROJECT**  
 SANTA FE RIVER  
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 (SECTION B)

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 SANTA FE  
 COUNTY  
 100 Catron St.  
 Santa Fe, New Mexico 87501  
 T 505.986.6200  
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 AECOM  
 150 Washington Avenue, Suite 201  
 Santa Fe, New Mexico 87501  
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 GEOTECHNICAL  
 TERRACON  
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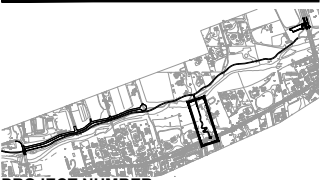
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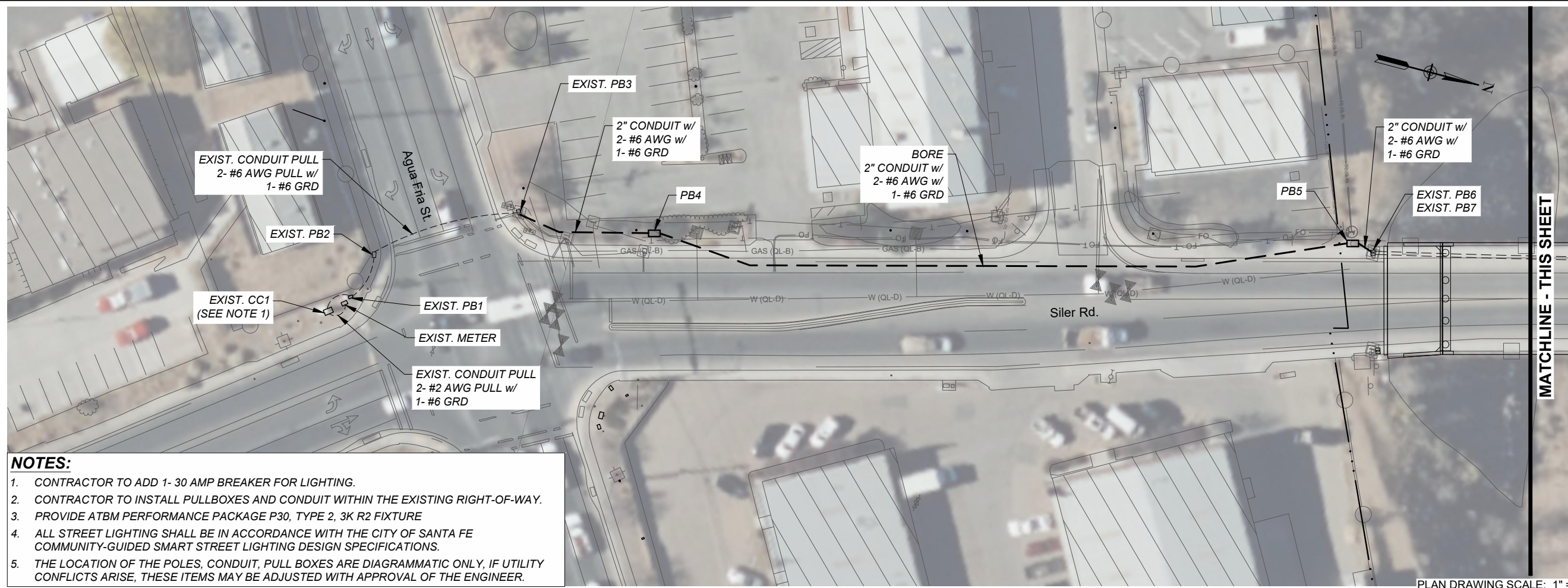
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I/R	DATE	DESCRIPTION

**KEY PLAN**



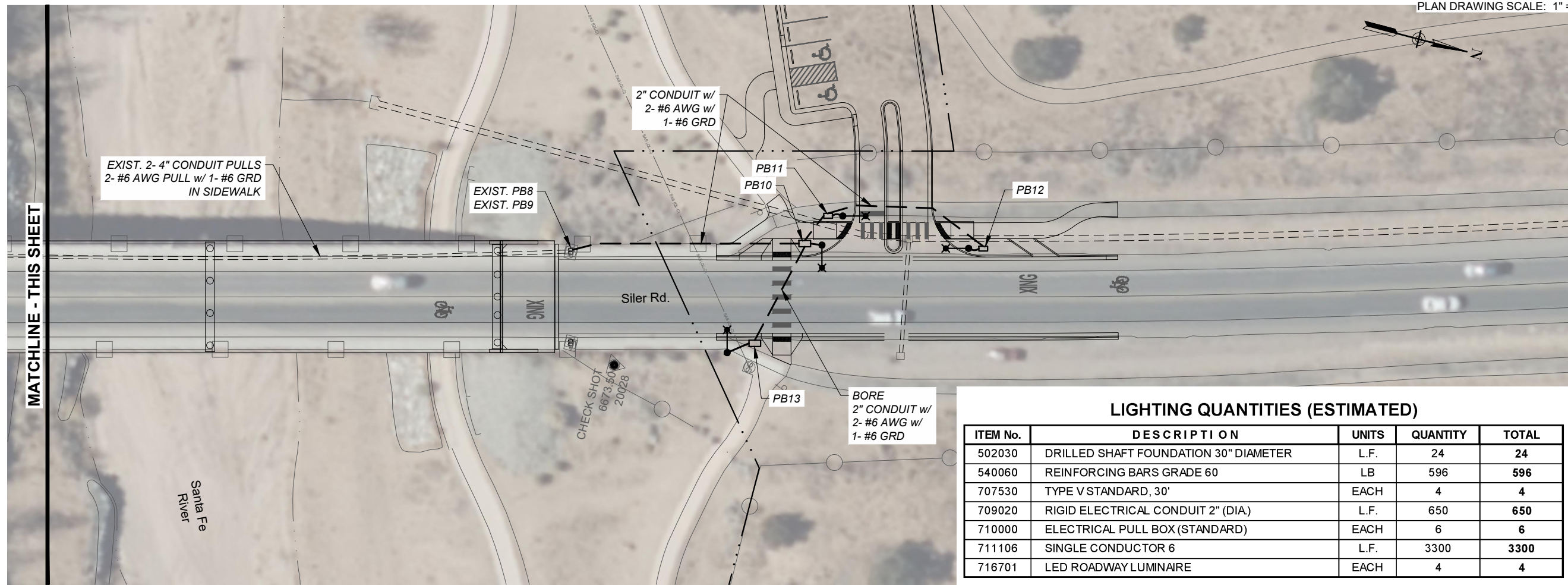
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 357-7708  
**SHEET TITLE**  
 PERMANENT  
 SIGNING AND STRIPING  
 PLAN (BID ALT. #1)  
**SHEET NUMBER**  
 7 - 10



- NOTES:**
- CONTRACTOR TO ADD 1- 30 AMP BREAKER FOR LIGHTING.
  - CONTRACTOR TO INSTALL PULLBOXES AND CONDUIT WITHIN THE EXISTING RIGHT-OF-WAY.
  - PROVIDE ATBM PERFORMANCE PACKAGE P30, TYPE 2, 3K R2 FIXTURE
  - ALL STREET LIGHTING SHALL BE IN ACCORDANCE WITH THE CITY OF SANTA FE COMMUNITY-GUIDED SMART STREET LIGHTING DESIGN SPECIFICATIONS.
  - THE LOCATION OF THE POLES, CONDUIT, PULL BOXES ARE DIAGRAMMATIC ONLY, IF UTILITY CONFLICTS ARISE, THESE ITEMS MAY BE ADJUSTED WITH APPROVAL OF THE ENGINEER.

PLAN DRAWING SCALE: 1" = 50'  
 PLAN DRAWING SCALE: 1" = 50'

MATCHLINE - THIS SHEET



MATCHLINE - THIS SHEET

**LIGHTING QUANTITIES (ESTIMATED)**

ITEM No.	DESCRIPTION	UNITS	QUANTITY	TOTAL
502030	DRILLED SHAFT FOUNDATION 30" DIAMETER	L.F.	24	24
540060	REINFORCING BARS GRADE 60	LB	596	596
707530	TYPE V STANDARD, 30'	EACH	4	4
709020	RIGID ELECTRICAL CONDUIT 2" (DIA)	L.F.	650	650
710000	ELECTRICAL PULL BOX (STANDARD)	EACH	6	6
711106	SINGLE CONDUCTOR 6	L.F.	3300	3300
716701	LED ROADWAY LUMINAIRE	EACH	4	4



**PROJECT**  
 SANTA FE RIVER  
 GREENWAY PROJECT  
 (SECTION B)

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 T 505.986.6200  
 www.santafecountynm.gov

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 AECOM  
 150 Washington Avenue, Suite 201  
 Santa Fe, New Mexico 87501  
 T 505.855.7500  
 www.aecom.com

**SUBCONSULTANTS**  
 GEOTECHNICAL  
 TERRACON  
 T 505.797.4287  
 LANDSCAPE ARCHITECTURE  
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 T 505.983.1415  
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**REGISTRATION**

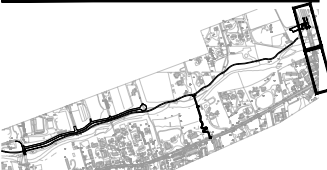


08-24-2023

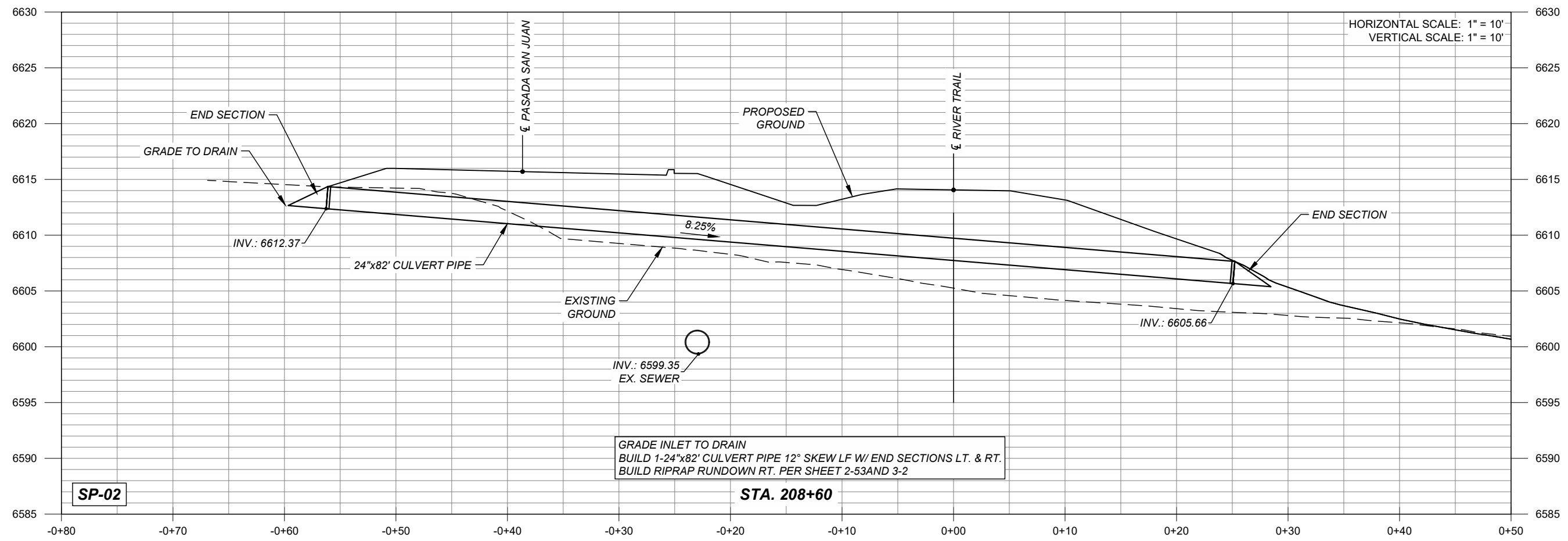
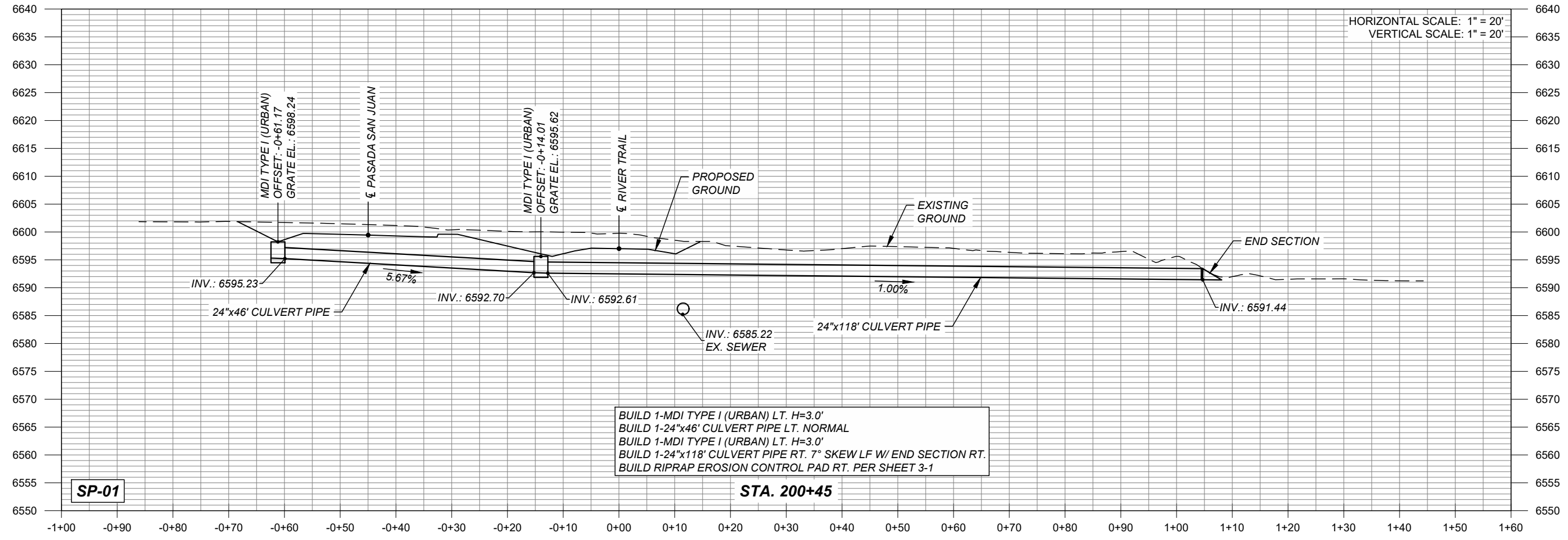
**ISSUE/REVISION**

I/R	DATE	DESCRIPTION

**KEY PLAN**



**PROJECT NUMBER**  
 357-7708  
**SHEET TITLE**  
 SILER ROAD  
 LIGHTING PLAN  
**SHEET NUMBER**  
 8 - 1



**PROJECT**  
 SANTA FE RIVER  
 GREENWAY PROJECT  
 (SECTION B)

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 Santa Fe, New Mexico 87501  
 T 505.986.6200  
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**REGISTRATION**



**ISSUE/REVISION**

I/R	DATE	DESCRIPTION

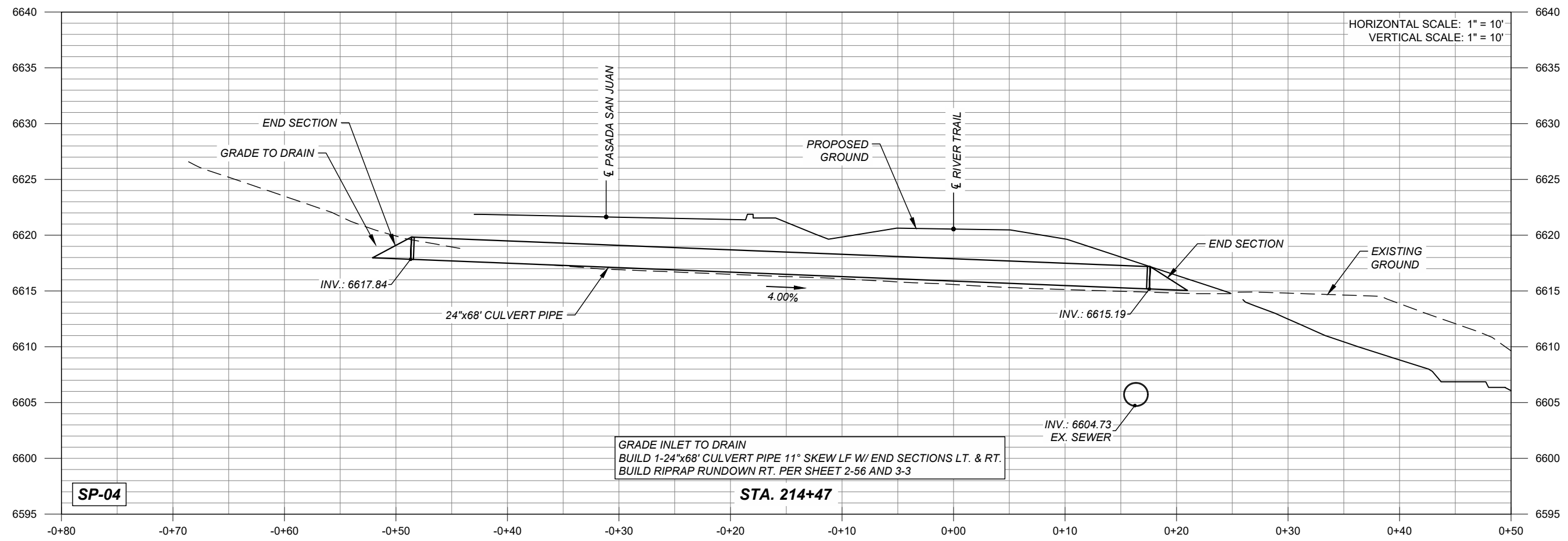
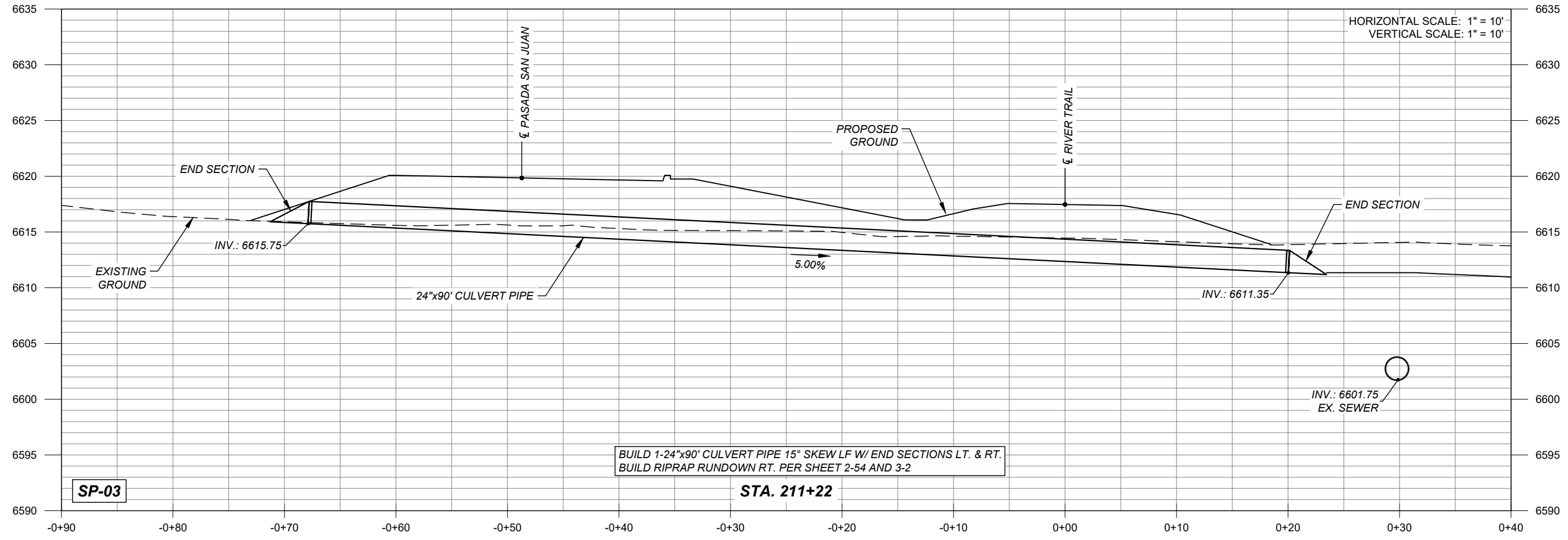
**KEY PLAN**

**PROJECT NUMBER**  
 357-7708

**SHEET TITLE**  
 STRUCTURE PLACEMENT  
 SECTIONS  
 SP-01 AND SP-02

**SHEET NUMBER**  
 10 - 1





**PROJECT**  
SANTA FE RIVER  
GREENWAY PROJECT  
(SECTION B)

**CLIENT**  
SANTA FE COUNTY  
100 Catron St.  
Santa Fe, New Mexico 87501  
T 505.986.6200  
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150 Washington Avenue, Suite 201  
Santa Fe, New Mexico 87501  
T 505.855.7500  
www.aecom.com

**SUBCONSULTANTS**  
GEOTECHNICAL  
TERRACON  
T 505.797.4287  
LANDSCAPE ARCHITECTURE  
DESIGN OFFICE  
T 505.983.1415  
TOPOGRAPHIC MAPPING  
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T 602.678.5111  
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**ISSUE/REVISION**

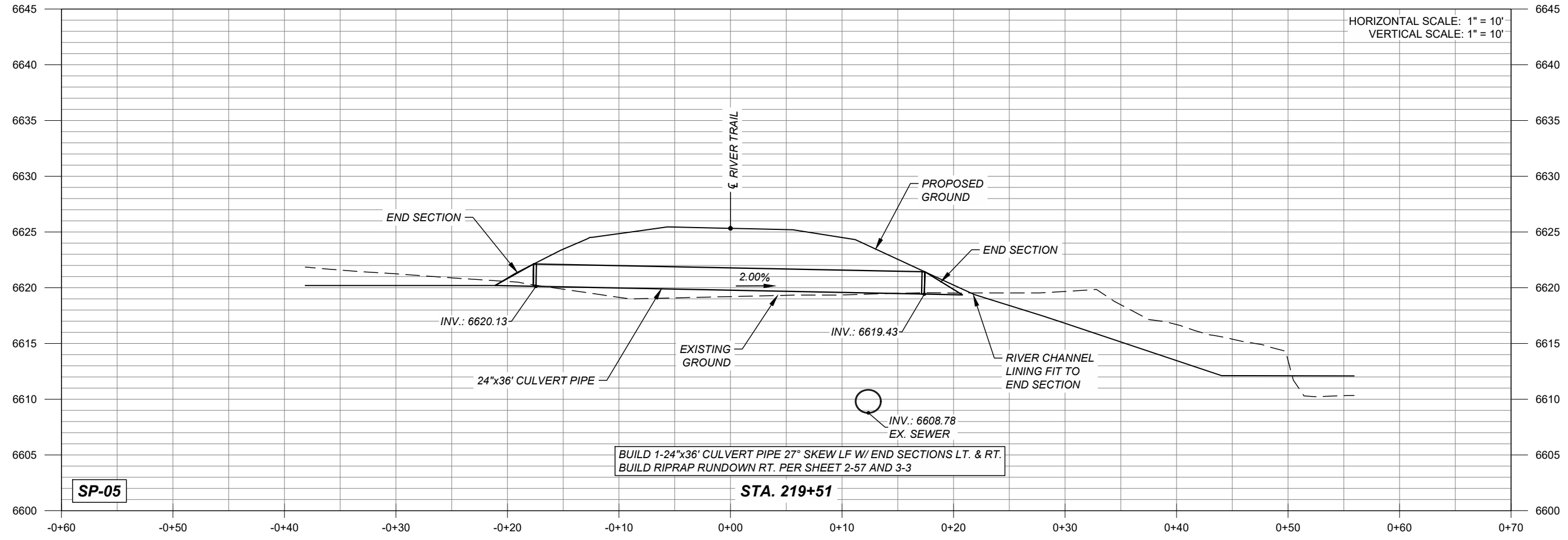
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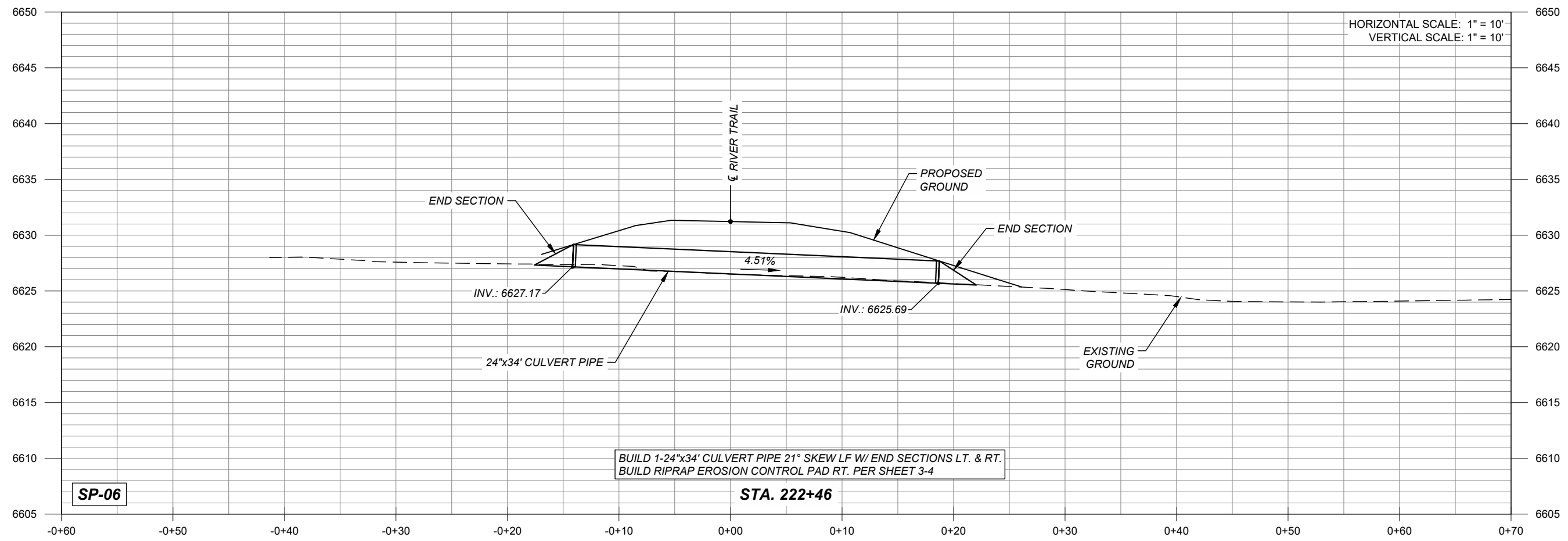
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357-7708

**SHEET TITLE**  
STRUCTURE PLACEMENT  
SECTIONS  
SP-03 AND SP-04

**SHEET NUMBER**  
10 - 2



HORIZONTAL SCALE: 1" = 10'  
VERTICAL SCALE: 1" = 10'



HORIZONTAL SCALE: 1" = 10'  
VERTICAL SCALE: 1" = 10'



**PROJECT**  
SANTA FE RIVER  
GREENWAY PROJECT  
(SECTION B)

**CLIENT**  
SANTA FE COUNTY  
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Santa Fe, New Mexico 87501  
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150 Washington Avenue, Suite 201  
Santa Fe, New Mexico 87501  
T 505.855.7500  
www.aecom.com

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GEOTECHNICAL  
TERRACON  
T 505.797.4287  
LANDSCAPE ARCHITECTURE  
DESIGN OFFICE  
T 505.983.1415  
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**ISSUE/REVISION**

I/R	DATE	DESCRIPTION

**KEY PLAN**

**PROJECT NUMBER**  
357-7708

**SHEET TITLE**  
STRUCTURE PLACEMENT  
SECTIONS  
SP-05 AND SP-06

**SHEET NUMBER**  
10 - 3



**PROJECT**  
 SANTA FE RIVER  
 GREENWAY PROJECT  
 (SECTION B)

**CLIENT**  
 SANTA FE COUNTY  
 100 Catron St.  
 Santa Fe, New Mexico 87501  
 T 505.986.6200  
 www.santafecountynm.gov

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 AECOM  
 150 Washington Avenue, Suite 201  
 Santa Fe, New Mexico 87501  
 T 505.855.7500  
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 GEOTECHNICAL  
 TERRACON  
 T 505.797.4287  
 LANDSCAPE ARCHITECTURE  
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**ISSUE/REVISION**

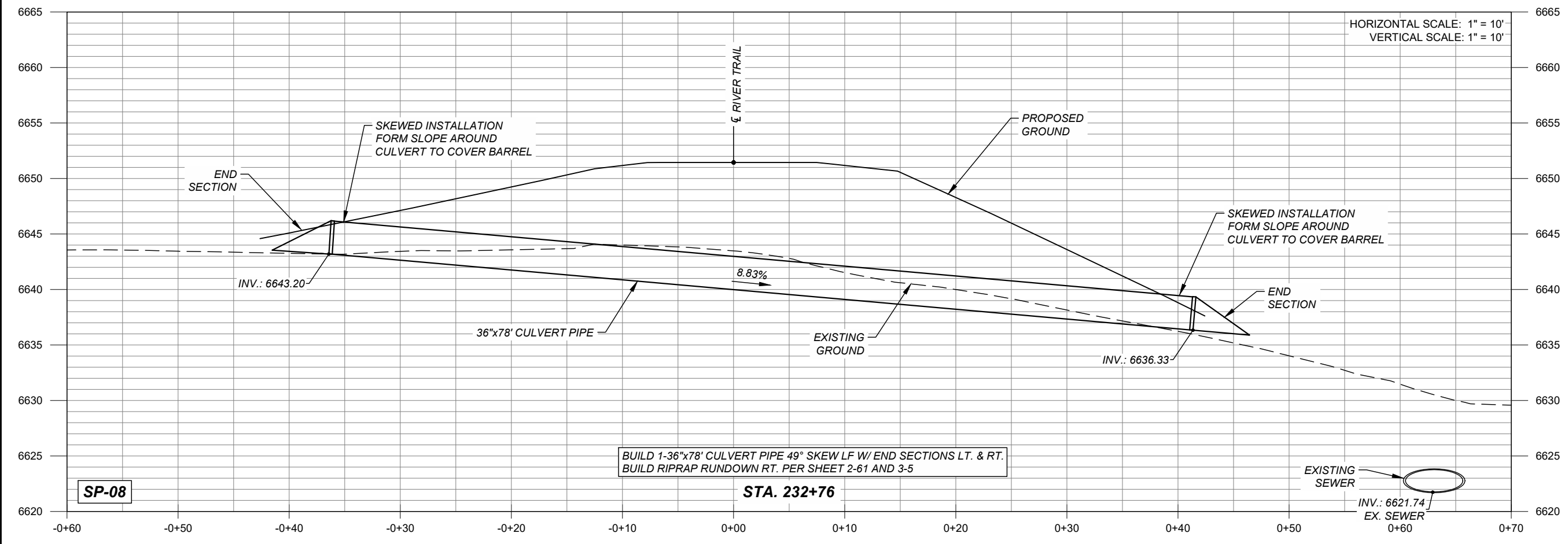
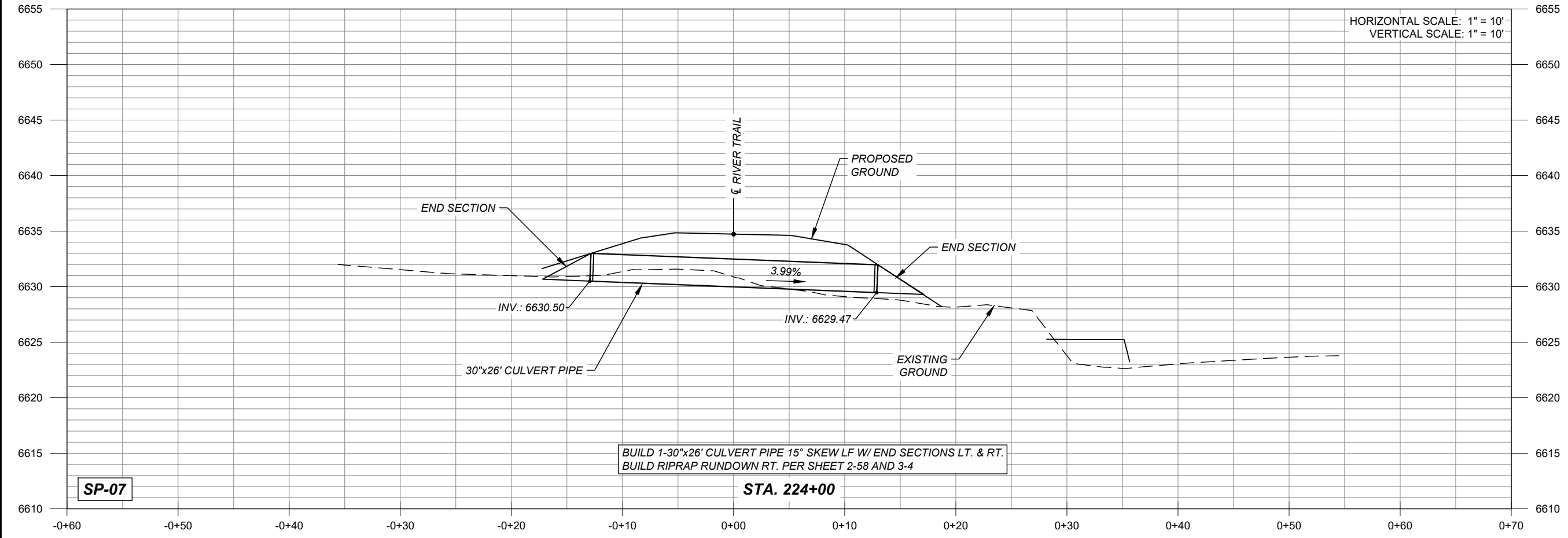
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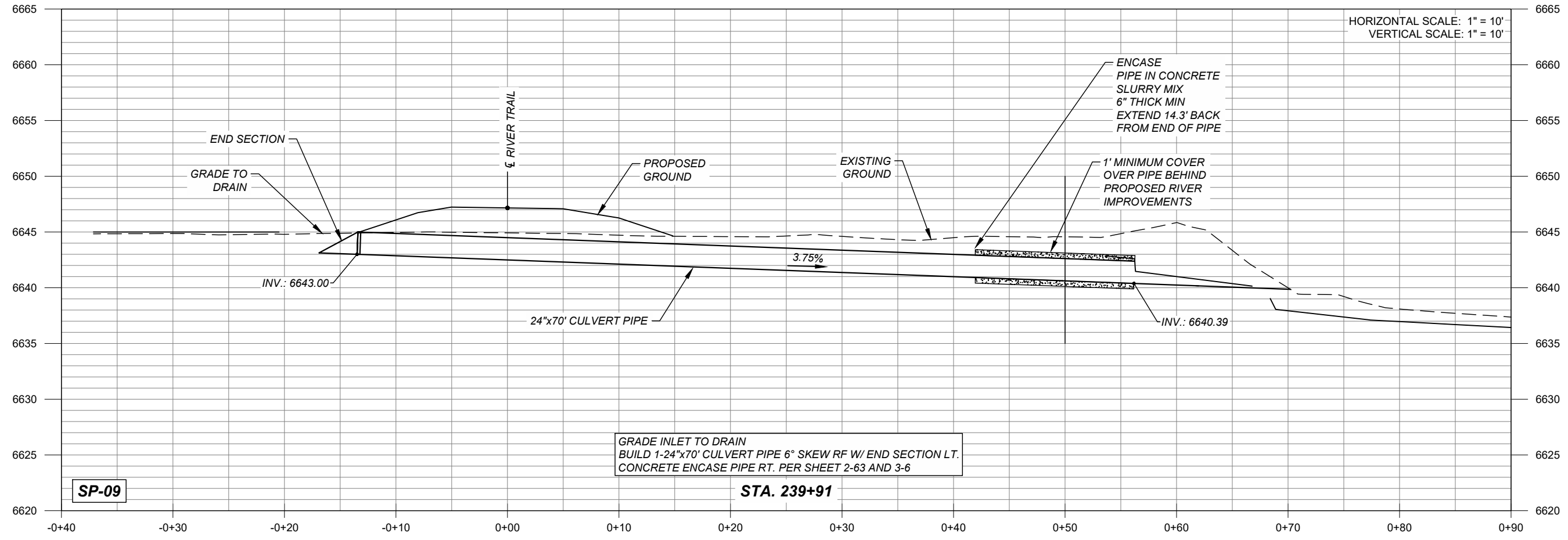
**KEY PLAN**

**PROJECT NUMBER**  
 357-7708

**SHEET TITLE**  
 STRUCTURE PLACEMENT  
 SECTIONS  
 SP-07 AND SP-08

**SHEET NUMBER**  
 10 - 4

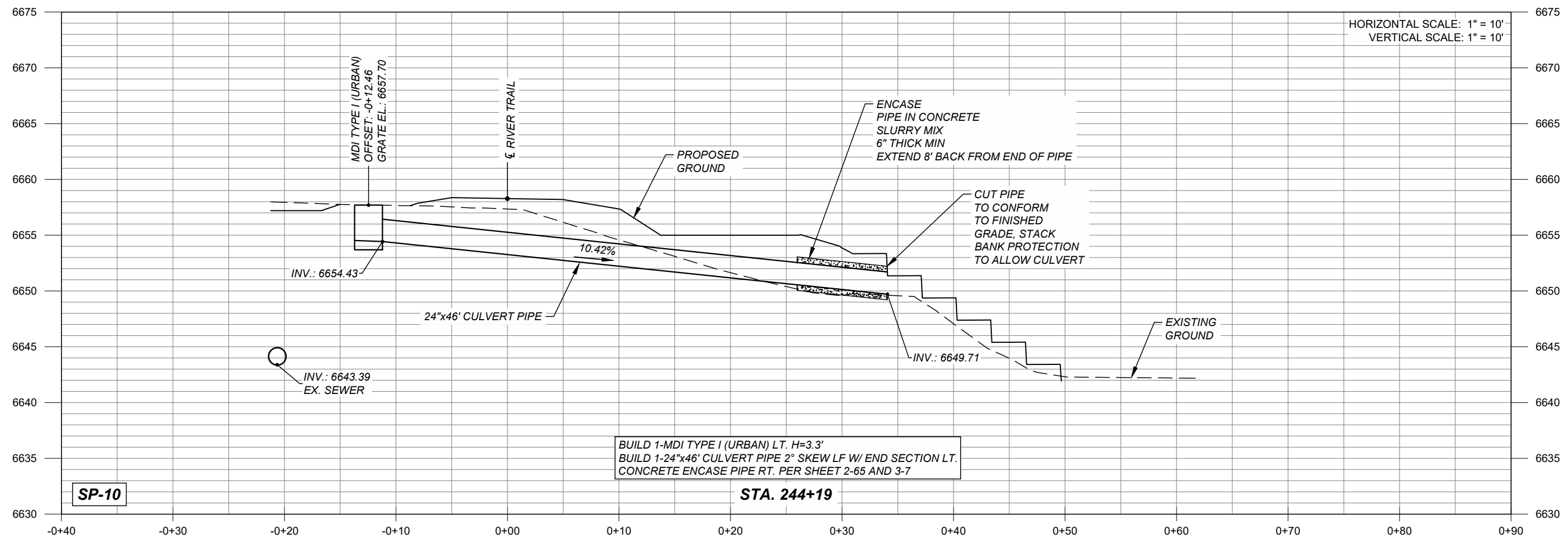




HORIZONTAL SCALE: 1" = 10'  
VERTICAL SCALE: 1" = 10'

SP-09

STA. 239+91



HORIZONTAL SCALE: 1" = 10'  
VERTICAL SCALE: 1" = 10'

SP-10

STA. 244+19



**PROJECT**  
SANTA FE RIVER  
GREENWAY PROJECT  
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GEOTECHNICAL  
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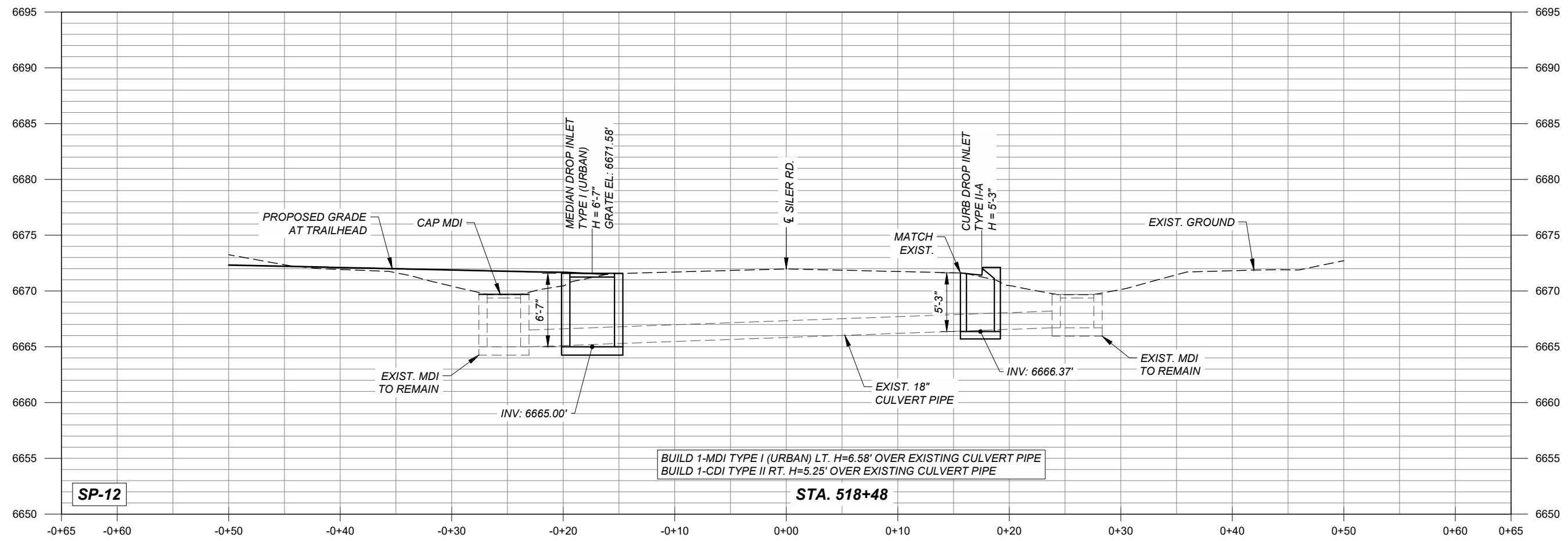
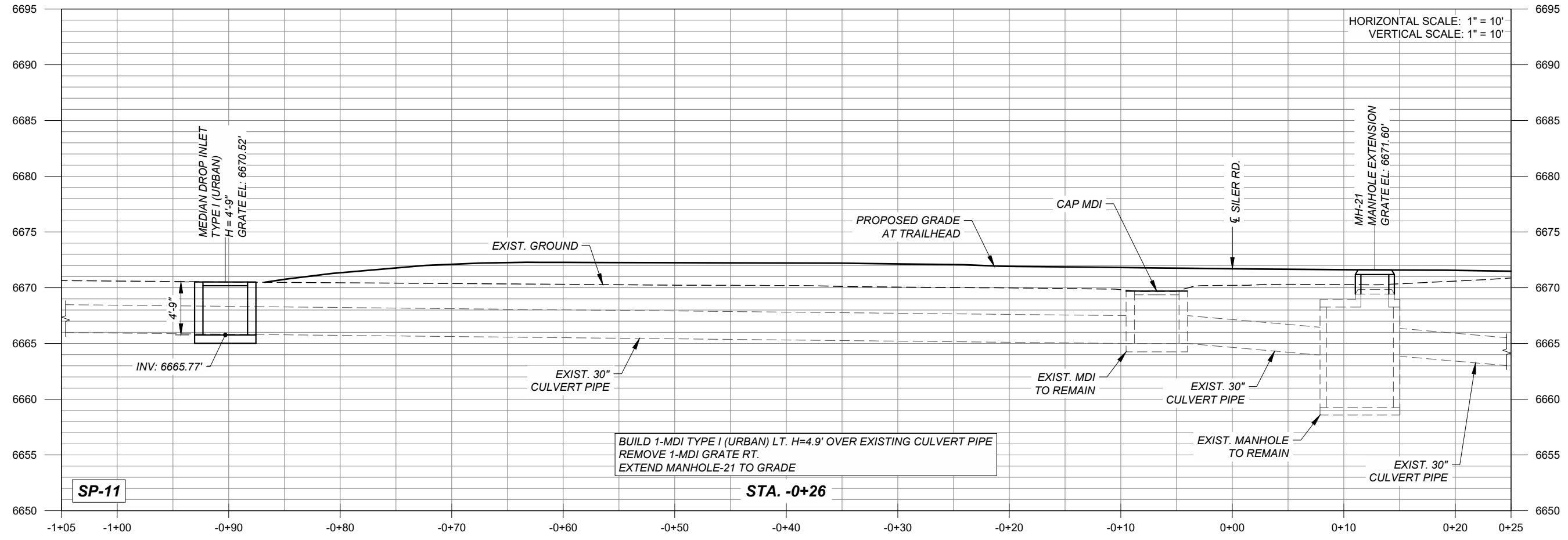
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**KEY PLAN**

**PROJECT NUMBER**  
357-7708

**SHEET TITLE**  
STRUCTURE PLACEMENT  
SECTIONS  
SP-09 AND SP-10

**SHEET NUMBER**  
10 - 5



**PROJECT**  
SANTA FE RIVER  
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**CLIENT**  
**SANTA FE COUNTY**  
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T 505.986.6200  
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**ISSUE/REVISION**

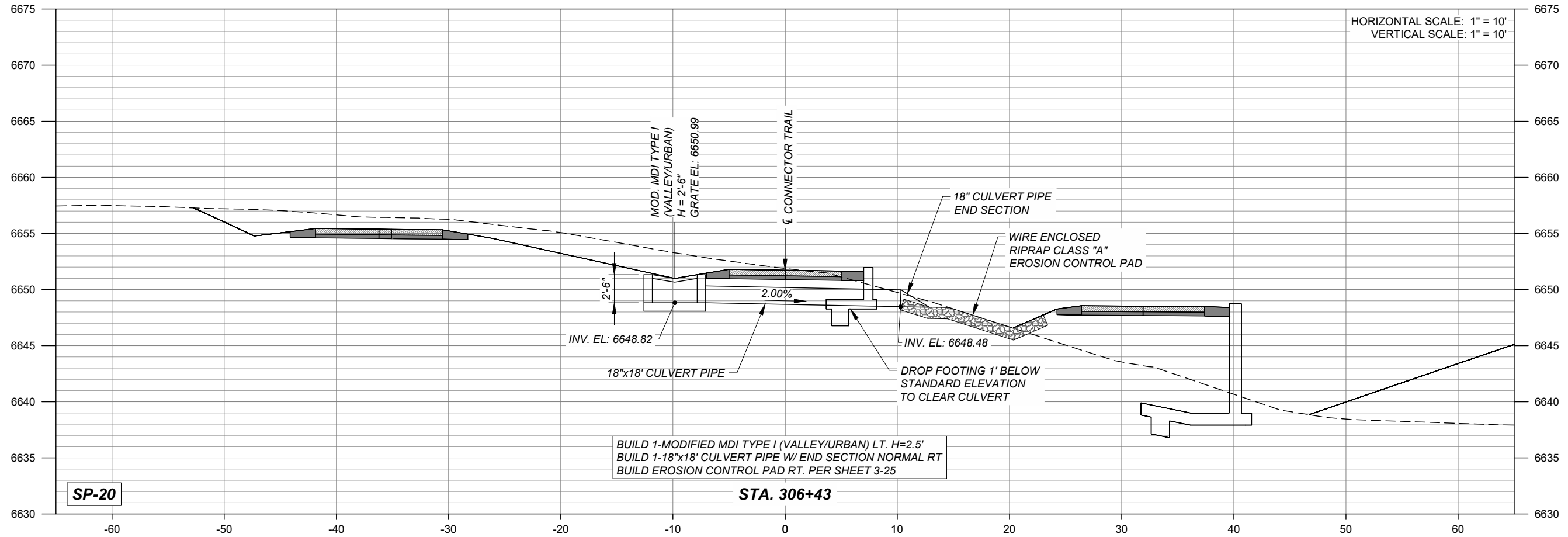
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**KEY PLAN**

**PROJECT NUMBER**  
357-7708

**SHEET TITLE**  
STRUCTURE PLACEMENT  
SECTIONS  
SP-11, SP-12 & SP-13

**SHEET NUMBER**  
10 - 6



**PROJECT**  
 SANTA FE RIVER  
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GEOTECHNICAL  
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 T 505.797.4287

LANDSCAPE ARCHITECTURE  
**DESIGN OFFICE**  
 T 505.983.1415

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**ISSUE/REVISION**

I/R	DATE	DESCRIPTION

**KEY PLAN**

**PROJECT NUMBER**

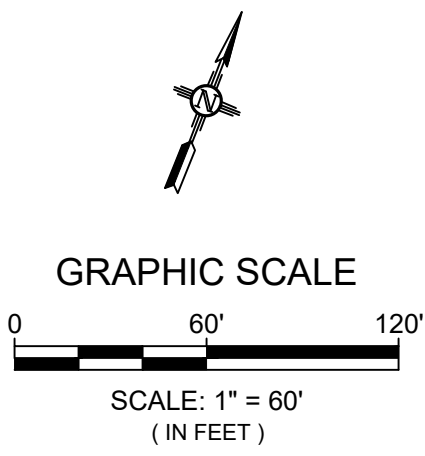
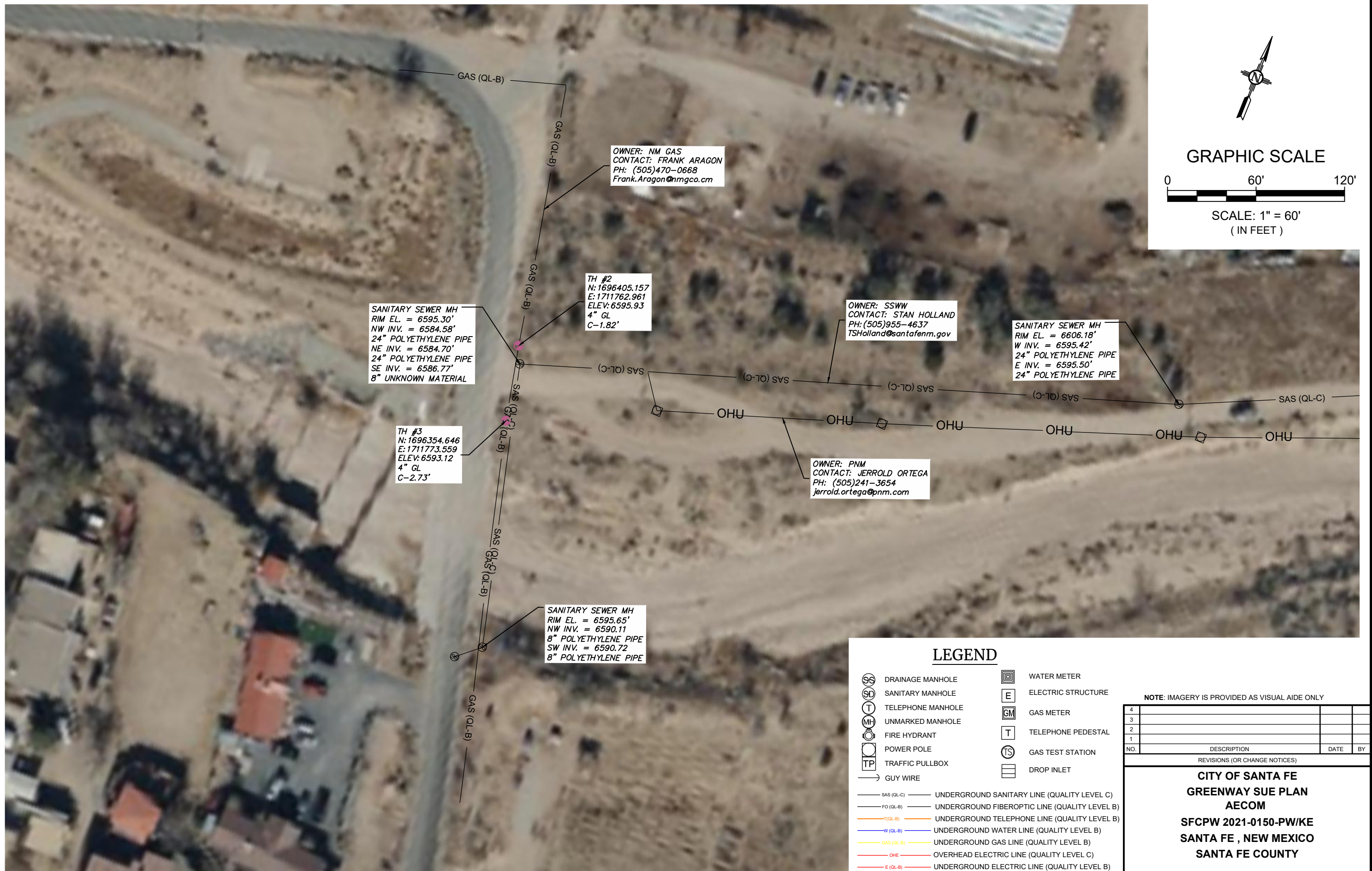
357-7708

**SHEET TITLE**

STRUCTURE PLACEMENT  
 SECTION (BID ALT. #1)  
 SP-20

**SHEET NUMBER**

10 - 7



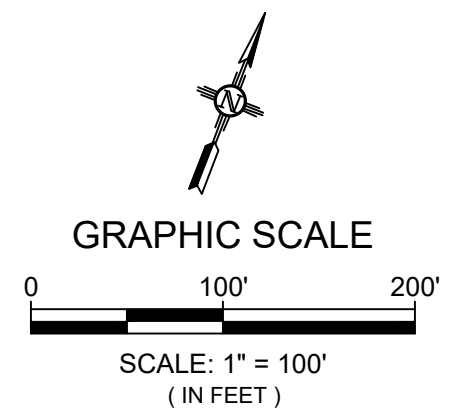
**LEGEND**

DRAINAGE MANHOLE	WATER METER
SANITARY MANHOLE	ELECTRIC STRUCTURE
TELEPHONE MANHOLE	GAS METER
UNMARKED MANHOLE	TELEPHONE PEDESTAL
FIRE HYDRANT	GAS TEST STATION
POWER POLE	DROP INLET
TRAFFIC PULLBOX	
GUY WIRE	
SAS (QL-C) UNDERGROUND SANITARY LINE (QUALITY LEVEL C)	
FO (QL-B) UNDERGROUND FIBEROPTIC LINE (QUALITY LEVEL B)	
T (QL-B) UNDERGROUND TELEPHONE LINE (QUALITY LEVEL B)	
W (QL-B) UNDERGROUND WATER LINE (QUALITY LEVEL B)	
GAS (QL-B) UNDERGROUND GAS LINE (QUALITY LEVEL B)	
OHE OVERHEAD ELECTRIC LINE (QUALITY LEVEL C)	
E (QL-B) UNDERGROUND ELECTRIC LINE (QUALITY LEVEL B)	

NOTE: IMAGERY IS PROVIDED AS VISUAL AIDE ONLY

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NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			

**CITY OF SANTA FE**  
**GREENWAY SUE PLAN**  
**AECOM**  
**SFCPW 2021-0150-PW/KE**  
**SANTA FE, NEW MEXICO**  
**SANTA FE COUNTY**



**LEGEND**

- |  |                   |  |                    |
|--|-------------------|--|--------------------|
|  | DRAINAGE MANHOLE  |  | WATER METER        |
|  | SANITARY MANHOLE  |  | ELECTRIC STRUCTURE |
|  | TELEPHONE MANHOLE |  | GAS METER          |
|  | UNMARKED MANHOLE  |  | TELEPHONE PEDESTAL |
|  | FIRE HYDRANT      |  | GAS TEST STATION   |
|  | POWER POLE        |  | DROP INLET         |
|  | TRAFFIC PULLBOX   |  |                    |
|  | GUY WIRE          |  |                    |
- 
- |  |            |   |
|--|------------|---|
|  | SAS (QL-C) | UNDERGROUND SANITARY LINE (QUALITY LEVEL C)   |
|  | FO (QL-B)  | UNDERGROUND FIBEROPTIC LINE (QUALITY LEVEL B) |
|  | T (QL-B)   | UNDERGROUND TELEPHONE LINE (QUALITY LEVEL B)  |
|  | W (QL-B)   | UNDERGROUND WATER LINE (QUALITY LEVEL B)      |
|  | GAS (QL-B) | UNDERGROUND GAS LINE (QUALITY LEVEL B)        |
|  | OHE        | OVERHEAD ELECTRIC LINE (QUALITY LEVEL C)      |
|  | E (QL-B)   | UNDERGROUND ELECTRIC LINE (QUALITY LEVEL B)   |

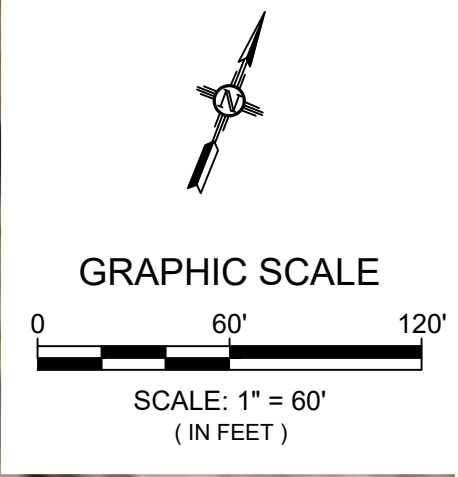
NOTE: IMAGERY IS PROVIDED AS VISUAL AIDE ONLY

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NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			

**CITY OF SANTA FE**  
**GREENWAY SUE PLAN**  
**AECOM**  
**2021-0150-PW/KE**  
**SANTA FE, NEW MEXICO**  
**SANTA FE COUNTY**



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JK ARAGON  
0668  
mgco.cm

**LEGEND**

- |  |                   |  |                    |
|--|-------------------|--|--------------------|
|  | DRAINAGE MANHOLE  |  | WATER METER        |
|  | SANITARY MANHOLE  |  | ELECTRIC STRUCTURE |
|  | TELEPHONE MANHOLE |  | GAS METER          |
|  | UNMARKED MANHOLE  |  | TELEPHONE PEDESTAL |
|  | FIRE HYDRANT      |  | GAS TEST STATION   |
|  | POWER POLE        |  | DROP INLET         |
|  | TRAFFIC PULLBOX   |  |                    |
|  | GUY WIRE          |  |                    |
- 
- |  |            |  |   |
|--|------------|--|---|
|  | SAS (QL-C) |  | UNDERGROUND SANITARY LINE (QUALITY LEVEL C)   |
|  | FO (QL-B)  |  | UNDERGROUND FIBEROPTIC LINE (QUALITY LEVEL B) |
|  | T (QL-B)   |  | UNDERGROUND TELEPHONE LINE (QUALITY LEVEL B)  |
|  | W (QL-B)   |  | UNDERGROUND WATER LINE (QUALITY LEVEL B)      |
|  | GAS (QL-B) |  | UNDERGROUND GAS LINE (QUALITY LEVEL B)        |
|  | OHE        |  | OVERHEAD ELECTRIC LINE (QUALITY LEVEL C)      |
|  | E (QL-B)   |  | UNDERGROUND ELECTRIC LINE (QUALITY LEVEL B)   |

NOTE: IMAGERY IS PROVIDED AS VISUAL AIDE ONLY















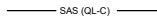
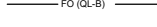


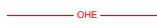


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NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

**CITY OF SANTA FE**  
**GREENWAY SUE PLAN**  
**AECOM**  
**2021-0150-PW/KE**  
**SANTA FE, NEW MEXICO**  
**SANTA FE COUNTY**

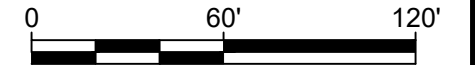
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**LEGEND**

- |   |  |
|---|--|
|  DRAINAGE MANHOLE  |  WATER METER        |
|  SANITARY MANHOLE  |  ELECTRIC STRUCTURE |
|  TELEPHONE MANHOLE                                       |  GAS METER          |
|  UNMARKED MANHOLE  |  TELEPHONE PEDESTAL |
|  FIRE HYDRANT  |  GAS TEST STATION   |
|  POWER POLE  |  DROP INLET         |
|  TRAFFIC PULLBOX   |  |
|  GUY WIRE  |  |
|  SAS (QL-C) UNDERGROUND SANITARY LINE (QUALITY LEVEL C)  |  |
|  FO (QL-B) UNDERGROUND FIBEROPTIC LINE (QUALITY LEVEL B) |  |
|  T (QL-B) UNDERGROUND TELEPHONE LINE (QUALITY LEVEL B)   |  |
|  W (QL-B) UNDERGROUND WATER LINE (QUALITY LEVEL B)       |  |
|  GAS (QL-B) UNDERGROUND GAS LINE (QUALITY LEVEL B)       |  |
|  OHE OVERHEAD ELECTRIC LINE (QUALITY LEVEL C)            |  |
|  E (QL-B) UNDERGROUND ELECTRIC LINE (QUALITY LEVEL B)    |  |



**GRAPHIC SCALE**



SCALE: 1" = 60'  
( IN FEET )



NOTE: IMAGERY IS PROVIDED AS VISUAL AIDE ONLY

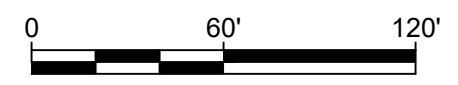
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NO.	DESCRIPTION	DATE	BY

**CITY OF SANTA FE**  
**GREENWAY SUE PLAN**  
**AECOM**  
**2021-0150-PW/KE**  
**SANTA FE, NEW MEXICO**  
**SANTA FE COUNTY**

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**GRAPHIC SCALE**



SCALE: 1" = 60'  
( IN FEET )

**LEGEND**

- DRAINAGE MANHOLE
- SANITARY MANHOLE
- TELEPHONE MANHOLE
- UNMARKED MANHOLE
- FIRE HYDRANT
- POWER POLE
- TRAFFIC PULLBOX
- GUY WIRE
- WATER METER
- ELECTRIC STRUCTURE
- GAS METER
- TELEPHONE PEDESTAL
- GAS TEST STATION
- DROP INLET
- SAS (QL-C) UNDERGROUND SANITARY LINE (QUALITY LEVEL C)
- FO (QL-B) UNDERGROUND FIBEROPTIC LINE (QUALITY LEVEL B)
- T (QL-B) UNDERGROUND TELEPHONE LINE (QUALITY LEVEL B)
- W (QL-B) UNDERGROUND WATER LINE (QUALITY LEVEL B)
- GAS (QL-B) UNDERGROUND GAS LINE (QUALITY LEVEL B)
- OHE OVERHEAD ELECTRIC LINE (QUALITY LEVEL C)
- E (QL-B) UNDERGROUND ELECTRIC LINE (QUALITY LEVEL B)

NOTE: IMAGERY IS PROVIDED AS VISUAL AIDE ONLY

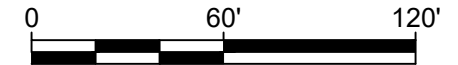
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NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			

**CITY OF SANTA FE**  
**GREENWAY SUE PLAN**  
**AECOM**  
**2021-0150-PW/KE**  
**SANTA FE, NEW MEXICO**  
**SANTA FE COUNTY**

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**GRAPHIC SCALE**



SCALE: 1" = 60'  
( IN FEET )

**LEGEND**

- |   |                    |
|---|--------------------|
| DRAINAGE MANHOLE  | WATER METER        |
| SANITARY MANHOLE  | ELECTRIC STRUCTURE |
| TELEPHONE MANHOLE                                       | GAS METER          |
| UNMARKED MANHOLE  | TELEPHONE PEDESTAL |
| FIRE HYDRANT  | GAS TEST STATION   |
| POWER POLE  | DROP INLET         |
| TRAFFIC PULLBOX   |                    |
| GUY WIRE  |                    |
| SAS (QL-C) UNDERGROUND SANITARY LINE (QUALITY LEVEL C)  |                    |
| FO (QL-B) UNDERGROUND FIBEROPTIC LINE (QUALITY LEVEL B) |                    |
| T (QL-B) UNDERGROUND TELEPHONE LINE (QUALITY LEVEL B)   |                    |
| W (QL-B) UNDERGROUND WATER LINE (QUALITY LEVEL B)       |                    |
| GAS (QL-B) UNDERGROUND GAS LINE (QUALITY LEVEL B)       |                    |
| OHE OVERHEAD ELECTRIC LINE (QUALITY LEVEL C)            |                    |
| E (QL-B) UNDERGROUND ELECTRIC LINE (QUALITY LEVEL B)    |                    |

NOTE: IMAGERY IS PROVIDED AS VISUAL AIDE ONLY

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NO.	DESCRIPTION	DATE	BY

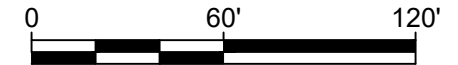
REVISIONS (OR CHANGE NOTICES)

**CITY OF SANTA FE**  
**GREEWAY SUE PLAN**  
**AECOM**  
**2021-0150-PW/KE**  
**SANTA FE, NEW MEXICO**  
**SANTA FE COUNTY**

OWNER: CENTURY LINK  
 CONTACT: DOUG DALE  
 PH: (505)490-5884  
 doug.dale@lumen.com



GRAPHIC SCALE



SCALE: 1" = 60'  
 ( IN FEET )



LEGEND

- |  |                   |  |  |
|--|-------------------|--|--|
|  | DRAINAGE MANHOLE  |  | WATER METER  |
|  | SANITARY MANHOLE  |  | ELECTRIC STRUCTURE                                 |
|  | TELEPHONE MANHOLE |  | GAS METER  |
|  | UNMARKED MANHOLE  |  | TELEPHONE PEDESTAL                                 |
|  | WATER VALVE       |  | GAS TEST STATION                                   |
|  | POWER POLE        |  | DROP INLET   |
|  | TRAFFIC PULLBOX   |  |  |
|  | GUY WIRE          |  |  |
|  | SAS (QL-C)        |  | UNDERGROUND SANITARY LINE (QUALITY LEVEL C)        |
|  | FO (QL-B)         |  | UNDERGROUND FIBEROPTIC LINE (QUALITY LEVEL B)      |
|  | T (QL-B)          |  | UNDERGROUND TELEPHONE LINE (QUALITY LEVEL B)       |
|  | W (QL-B)          |  | UNDERGROUND WATER LINE (QUALITY LEVEL B)           |
|  | W (QL-D)          |  | UNDERGROUND WATER LINE (QUALITY LEVEL D)           |
|  | GAS (QL-B)        |  | UNDERGROUND GAS LINE (QUALITY LEVEL B)             |
|  | GAS (QL-D)        |  | UNDERGROUND GAS LINE (QUALITY LEVEL D)             |
|  | TS (QL-B)         |  | UNDERGROUND TRAFFIC CONTROL LINE (QUALITY LEVEL B) |

NOTE: IMAGERY IS PROVIDED AS VISUAL AIDE ONLY

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NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			

**CITY OF SANTA FE**  
**GREEWAY SUE PLAN**  
**AECOM**  
 2021-0150-PW/KE  
 SANTA FE, NEW MEXICO  
 SANTA FE COUNTY

**UTILITY NOTES:**

1. ALL MANHOLE ADJUSTMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "SANITARY SEWER STANDARD CONSTRUCTION DETAILS" SHOWN ON THE CITY STANDARD DRAWINGS.
2. A COPY OF THE APPROVED PLANS SHALL BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES DURING WORKING HOURS.
3. ALL MODIFICATIONS TO THE SANITARY SEWER PLANS MUST BE REVIEWED AND APPROVED BY THE CITY'S WASTEWATER MANAGEMENT DIVISION PRIOR TO CONSTRUCTION.
4. ADDITIONAL GENERAL NOTES ARE CONTAINED IN THE STANDARD CITY DETAIL SHEETS FOR SANITARY SEWER CONSTRUCTION.
5. NO CONCRETE ENCASMENT OF NEW OR EXISTING PUBLIC SEWER PIPE WILL BE ALLOWED UNLESS APPROVED BY THE CITY OF SANTA FE WASTEWATER MANAGEMENT DIVISION.
6. FOR POST CONSTRUCTION DRAWINGS, TIE MANHOLE TO A CITY OF SANTA FE SURVEY MONUMENT AS PART OF THE FINAL RECORD DRAWINGS. SHOW CORRECTED AS-BUILT BEARING AND DISTANCES, SLOPES, RIM AND INVERT ELEVATIONS AND SEWER SERVICES ALONG THE HORIZONTAL ALIGNMENT OF THE SANITARY SEWER.
7. THE CONTRACTOR SHALL CALL THE WASTEWATER MANAGEMENT DIVISION FOR A FINAL MANHOLE INSPECTION. THIS INSPECTION WILL BE ISOLATED TO THE MANHOLES.

**SANTA FE RIVER GREENWAY - SAS MANHOLE LOCATIONS**

MANHOLE NUMBER	RIVER TRAIL STATION - OFFSET	EXISTING RIM ELEVATION	PROPOSED RIM ELEVATION	HEIGHT DIFFERENCE	REMARKS
MH-1	200+27.24; 12.89' RT.	6595.30'			NO ADJUSTMENT
MH-2	204+73.63; 12.13' RT.	6606.18'	6607.32'	1.14'	ONE 1'-0" RISER SECTION AND ONE RISER RING
MH-3	208+42.19; 22.23' LT.	6608.58'	6615.00'	6.42'	TWO 3'-0" RISER SECTIONS AND TWO RISER RINGS
MH-4	210+47.35; 8.90' RT.	6613.37'	6616.00'	2.63'	ONE 2'-0" RISER SECTION AND FOUR RISER RINGS
MH-5	212+56.63; 34.31' RT.	6614.13'			NO ADJUSTMENT
MH-6	213+83.02; 20.31' RT.	6616.52'			NO ADJUSTMENT
MH-7	216+44.83; 10.63' RT.	6616.95'	6620.50'	3.55'	ONE 3'-0" RISER SECTION AND THREE RISER RINGS
MH-8	219+89.77; 15.92' RT.	6619.35'	6623.50'	4.15'	ONE 4'-0" RISER SECTION AND ONE RISER RING
MH-9	219+91.47; 122.42' RT.	6622.05'			NO ADJUSTMENT
MH-10	221+35.01; 208.26' RT.	6624.15'			NO ADJUSTMENT
MH-11	223+08.84; 209.28' RT.	6625.45'			NO ADJUSTMENT
MH-12	223+96.75; 206.48' RT.	6627.46'			NO ADJUSTMENT
MH-13	227+25.21; 194.91' RT.	6631.92'			NO ADJUSTMENT
MH-14	229+86.71; 170.74' RT.	6638.12'			NO ADJUSTMENT
MH-15	232+81.34; 10.42' RT.	6643.41'	6650.00'	6.59'	TWO 3'-0" RISER SECTIONS AND FOUR RISER RINGS
MH-16	234+52.28; 14.22' RT.	6646.48'			NO ADJUSTMENT
MH-17	238+19.38; 12.61' RT.	6648.96'			NO ADJUSTMENT
MH-18	242+59.95; 9.47' LT.	6652.24'	6652.50'	0.26'	TWO RISER RINGS
MH-19	244+04.71; 20.23' LT.	6657.48'			NO ADJUSTMENT
MH-20	517+80.11; 30.93' RT.	6672.05'			NO ADJUSTMENT
MH-21	518+30.54; 27.08' LT.	6669.85'	6671.60'	1.75'	ONE 1'-0" RISER SECTION AND 5 RISER RINGS

**BASE BID - ITEM No. 662300**

**MANHOLE EXTENSION**

MANHOLE	ALIGNMENT	STATION	EACH	REMARKS
MH-02	CL RIVER TRAIL	204+73.63; 12.1' RT	1	MANHOLE
MH-03	CL RIVER TRAIL	208+42.19; 22.2' LT	1	MANHOLE
MH-04	CL RIVER TRAIL	210+47.35; 8.9' RT	1	MANHOLE
MH-07	CL RIVER TRAIL	216+44.83; 10.6' RT	1	MANHOLE
MH-08	CL RIVER TRAIL	219+89.77; 15.9' RT	1	MANHOLE
MH-15	CL RIVER TRAIL	232+81.34; 10.4' RT	1	MANHOLE
MH-18	CL RIVER TRAIL	242+59.95; 9.5' LT	1	MANHOLE
MH-21	CL SILER RD.	518+30.54; 30.5' LT	1	MANHOLE
<b>BASE BID TOTAL</b>			<b>8</b>	
<b>BASE BID USE</b>			<b>8</b>	

**UTILITY INFORMATION**

UTILITY TYPE	UTILITY OWNER	CONTACT NAME	CONTACT PHONE
SEWER	CITY OF SANTA FE	STAN HOLLAND	(505) 955-4637
GAS	NEW MEXICO GAS COMPANY	FRANK ARAGON	(505) 470-0688
OVERHEAD ELECTRIC	PUBLIC SERVICE COMPANY OF NEW MEXICO	JERROLD ORTEGA	(505) 241-3654
FIBER OPTIC	CENTURY LINK	DOUG DALE	(505) 490-5884



**PROJECT**

SANTA FE RIVER GREENWAY PROJECT (SECTION B)

**CLIENT**

SANTA FE COUNTY



100 Catron St.  
Santa Fe, New Mexico 87501  
T 505.986.6200  
www.santafecountynm.gov

**ENGINEERING CONSULTANT**

AECOM  
150 Washington Avenue, Suite 201  
Santa Fe, New Mexico 87501  
T 505.855.7500  
www.aecom.com

**SUBCONSULTANTS**

GEOTECHNICAL  
TERRACON  
T 505.797.4287

LANDSCAPE ARCHITECTURE  
DESIGN OFFICE  
T 505.983.1415

TOPOGRAPHIC MAPPING  
COOPER AERIAL SURVEYS CO.  
T 602.678.5111

SUBSURFACE UTILITY ENGINEERING  
COLLIERS ENGINEERING & DESIGN  
T 505.228.3154

**REGISTRATION**



**ISSUE/REVISION**

I/R	DATE	DESCRIPTION

**KEY PLAN**

**PROJECT NUMBER**

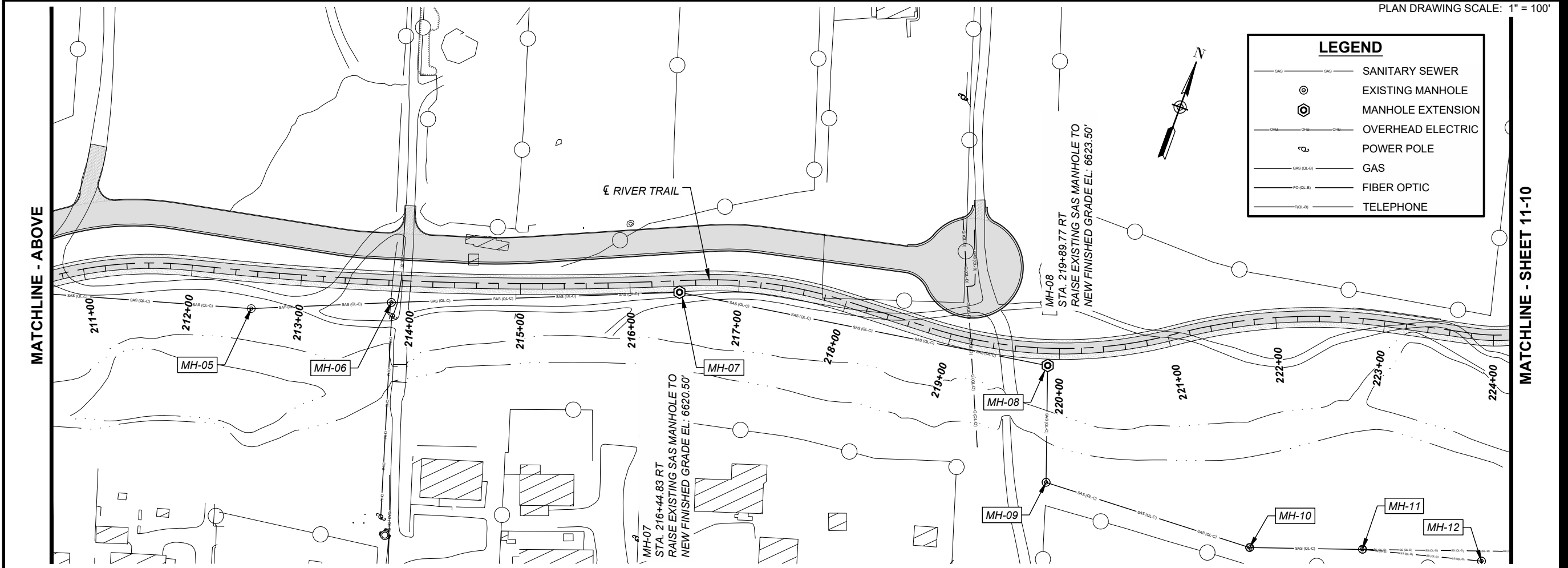
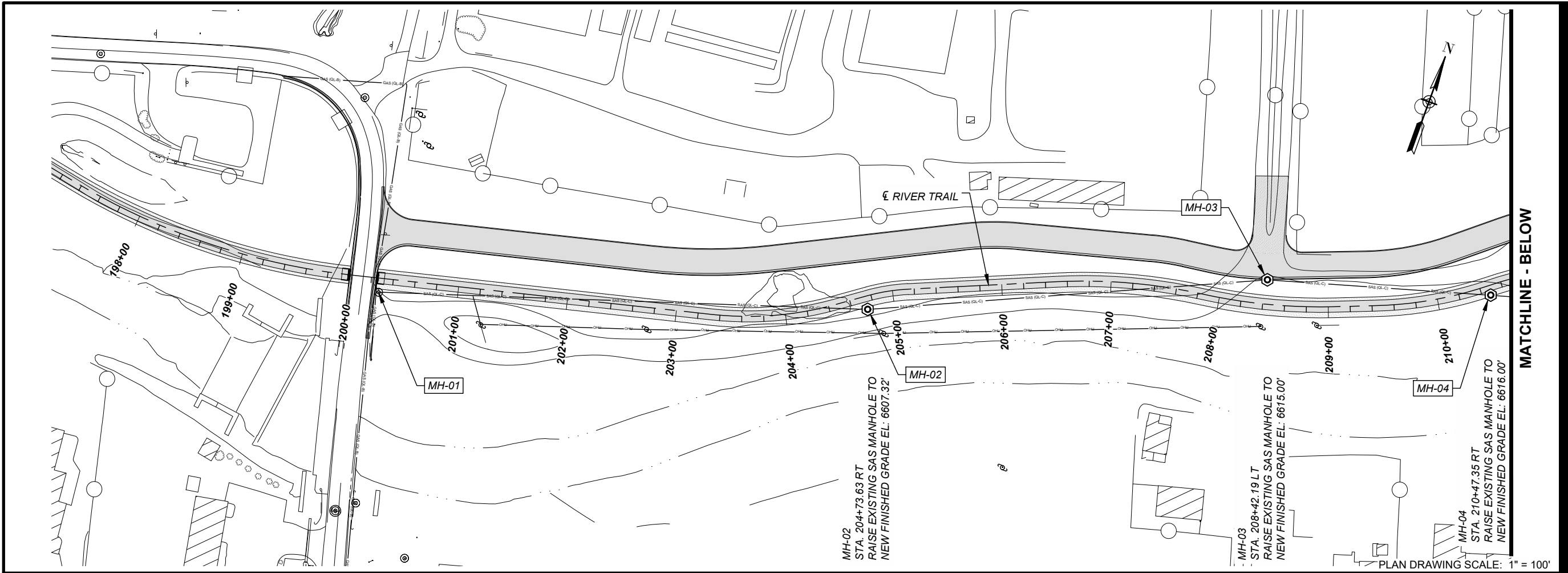
357-7708

**SHEET TITLE**

SANITARY SEWER NOTES AND SCHEDULES

**SHEET NUMBER**

11 - 8



**PROJECT**  
 SANTA FE RIVER  
 GREENWAY PROJECT  
 (SECTION B)

**CLIENT**  
 SANTA FE  
 COUNTY  
 100 Catron St.  
 Santa Fe, New Mexico 87501  
 T 505.986.6200  
 www.santafecountynm.gov

**ENGINEERING CONSULTANT**  
 AECOM  
 150 Washington Avenue, Suite 201  
 Santa Fe, New Mexico 87501  
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**REGISTRATION**



**ISSUE/REVISION**

I/R	DATE	DESCRIPTION

**KEY PLAN**

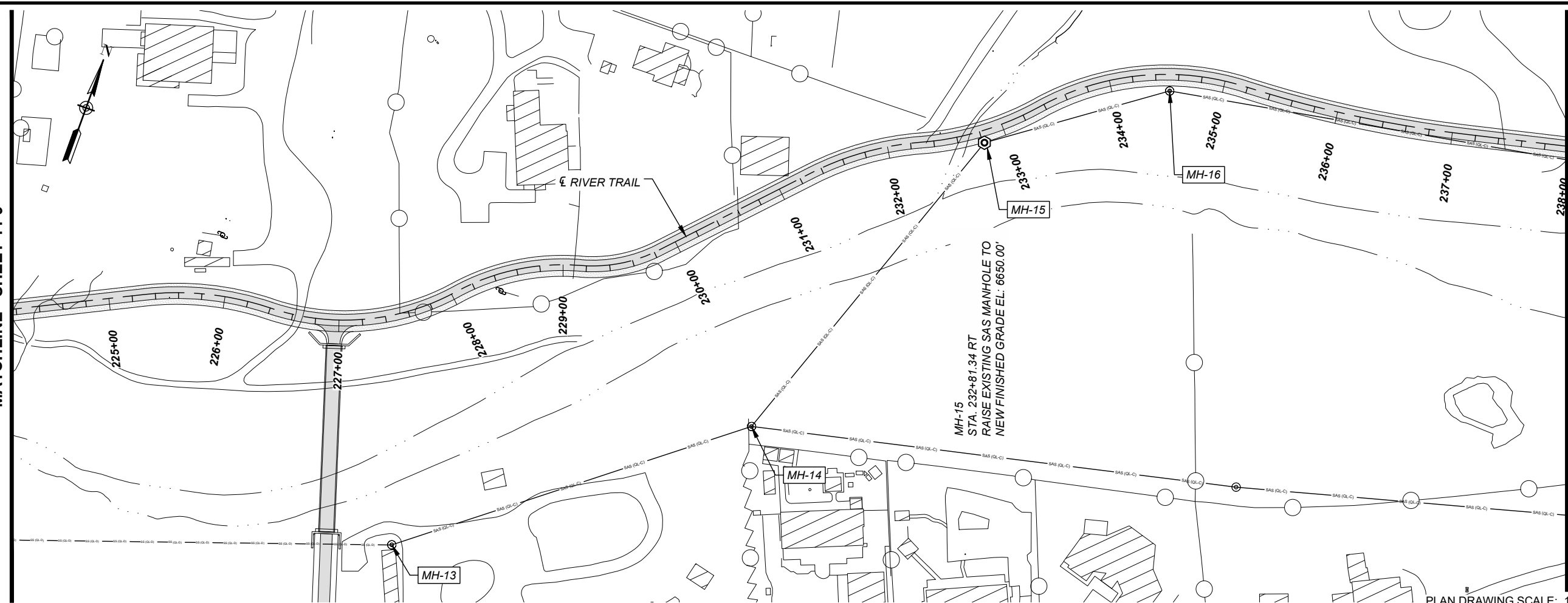
**PROJECT NUMBER**  
 357-7708

**SHEET TITLE**  
 SANITARY SEWER PLAN

**SHEET NUMBER**  
 11 - 9

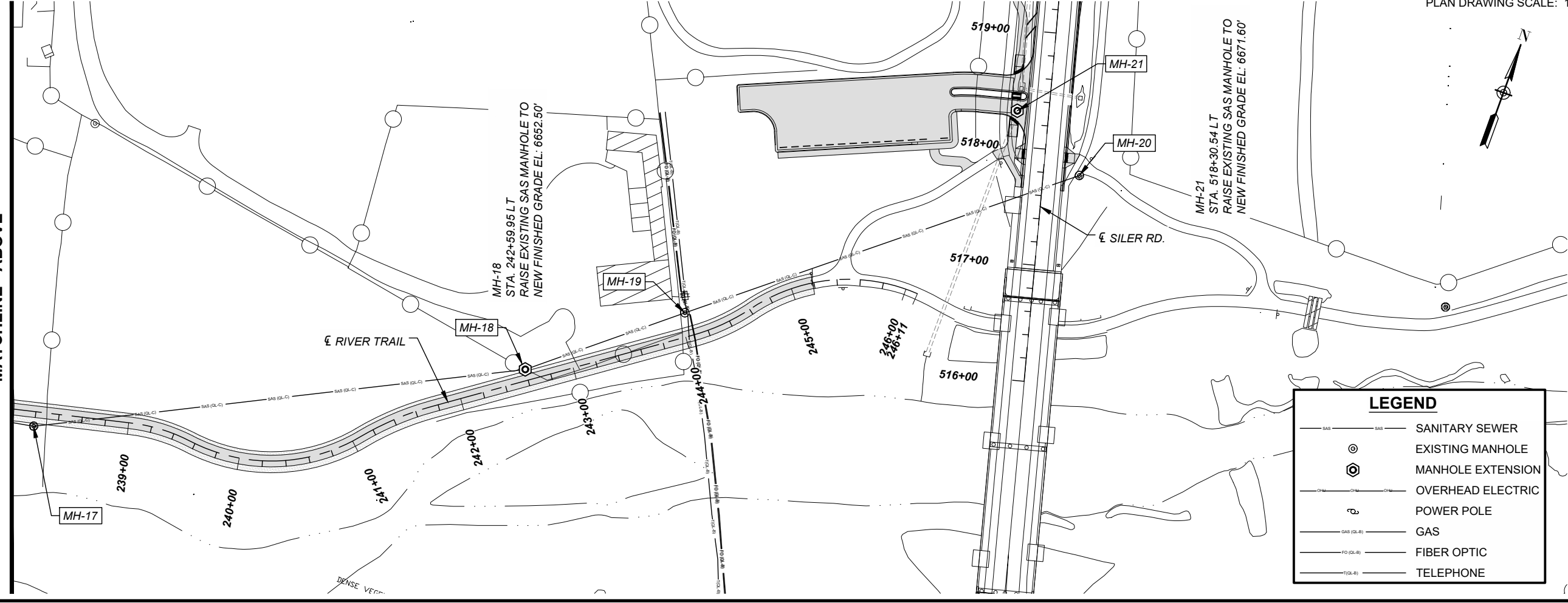
MATCHLINE - SHEET 11-9

MATCHLINE - BELOW



PLAN DRAWING SCALE: 1" = 100'

MATCHLINE - ABOVE



PLAN DRAWING SCALE: 1" = 100'

**LEGEND**

- SAS — SANITARY SEWER
- ⊙ EXISTING MANHOLE
- ⊕ MANHOLE EXTENSION
- O — OVERHEAD ELECTRIC
- ⊖ POWER POLE
- GAS (L-R) — GAS
- FO (L-R) — FIBER OPTIC
- TEL (L-R) — TELEPHONE



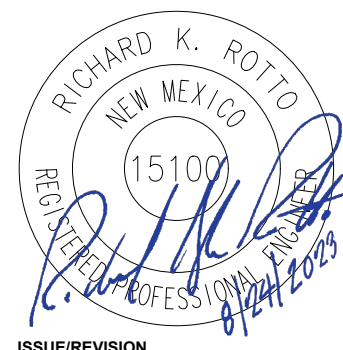
**PROJECT**  
 SANTA FE RIVER  
 GREENWAY PROJECT  
 (SECTION B)

**CLIENT**  
 SANTA FE  
 COUNTY  
 100 Catron St.  
 Santa Fe, New Mexico 87501  
 T 505.986.6200  
 www.santafecountynm.gov

**ENGINEERING CONSULTANT**  
 AECOM  
 150 Washington Avenue, Suite 201  
 Santa Fe, New Mexico 87501  
 T 505.855.7500  
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 T 505.228.3154

**REGISTRATION**



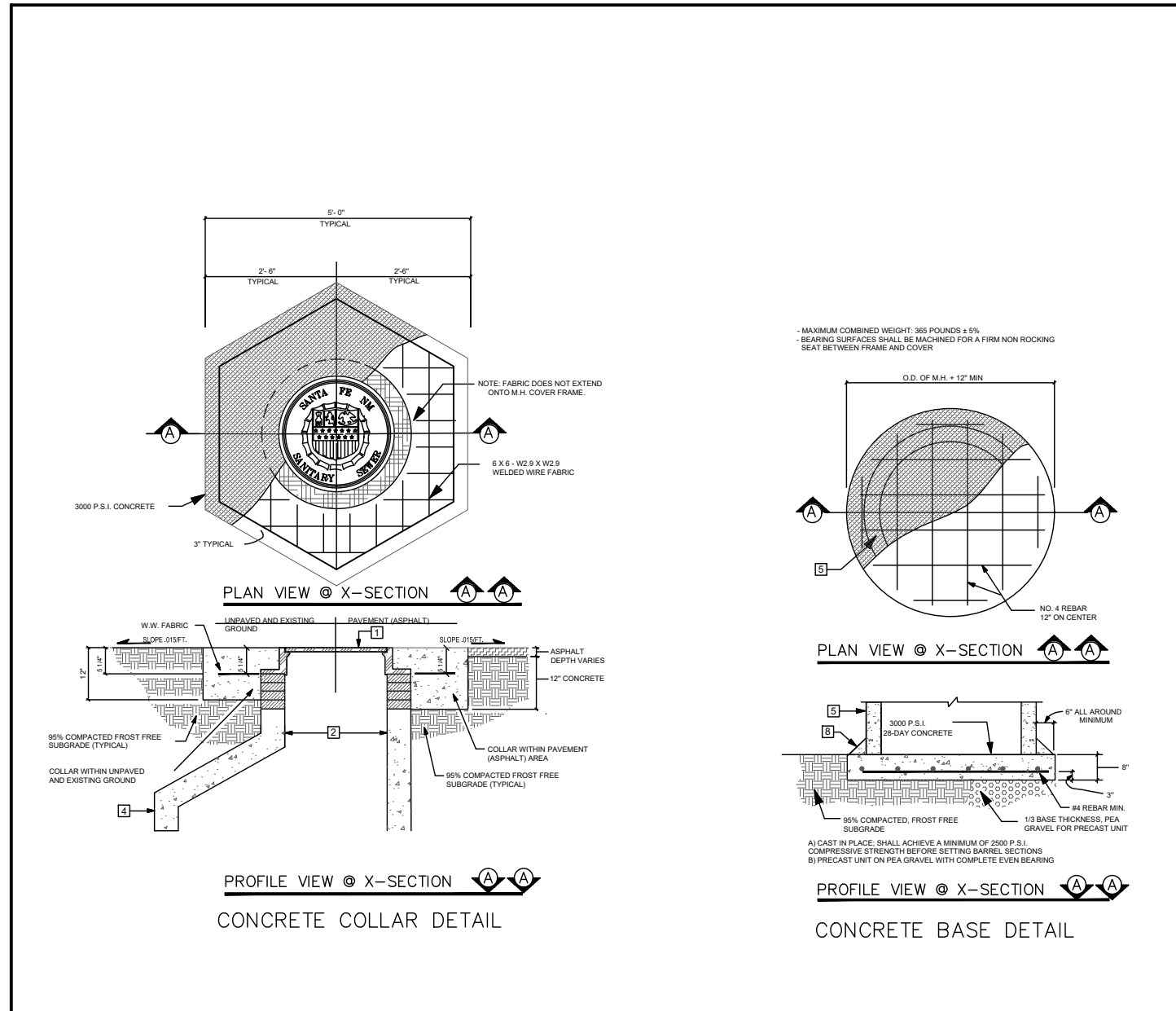
**ISSUE/REVISION**

I/R	DATE	DESCRIPTION

**KEY PLAN**

**PROJECT NUMBER**  
 357-7708  
**SHEET TITLE**  
 SANITARY SEWER PLAN  
**SHEET NUMBER**  
 11 - 10





**LEGEND**

ITEM	DESCRIPTION
1	MANHOLE FRAME & COVER, refer to manhole frame and cover detail Dwg.
2	CONCRETE ADJUSTMENT RINGS or CONCRETE BRICK, refer to concrete adjustment detail Dwg.
3	CONCRETE COLLAR, refer to concrete collar detail Dwg.
4	PRECAST REINFORCED CONCRETE RISER, CONE or FLAT TOP, with 5"(in) wall thickness, refer to general notes.
5	PRECAST REINFORCED CONCRETE BASE RISER, with suitable sized openings, refer to general notes.
6	CONCRETE BASE, refer to concrete base detail Dwg.
7	SEWER PIPE, refer to general notes.
8	6"(in) GROUT FILLET, on upper half of pipe and around base
9	ADAPTER, MANHOLE, refer to manhole adapter detail Dwg.
10	PIPE PENETRATION INTO MANHOLE, refer to manhole adapter detail Dwg.

NOT TO SCALE

<p><b>City of Santa Fe</b> New Mexico</p>	<p>CITY OF SANTA FE WASTEWATER MANAGEMENT DIVISION</p>									
	<p>SANITARY SEWER STANDARD CONSTRUCTION DETAILS</p>									
<p>DATE: JULY 1992 REV.: FEBRUARY 2022                  DRAWN BY: PPH                  CADD REVISION BY: PPH                  APPROVED BY:</p>	<p>REVISIONS</p> <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>									<p>DETAIL SHEET 5 MISC. MANHOLE DETAILS</p>

**PROJECT**  
 SANTA FE RIVER  
 GREENWAY PROJECT  
 (SECTION B)

**CLIENT**  
 SANTA FE  
 COUNTY  
 100 Catron St.  
 Santa Fe, New Mexico 87501  
 T 505.986.6200  
 www.santafecountynm.gov

**ENGINEERING CONSULTANT**  
 AECOM  
 150 Washington Avenue, Suite 201  
 Santa Fe, New Mexico 87501  
 T 505.855.7500  
 www.aecom.com

**SUBCONSULTANTS**  
 GEOTECHNICAL  
**TERRACON**  
 T 505.797.4287  
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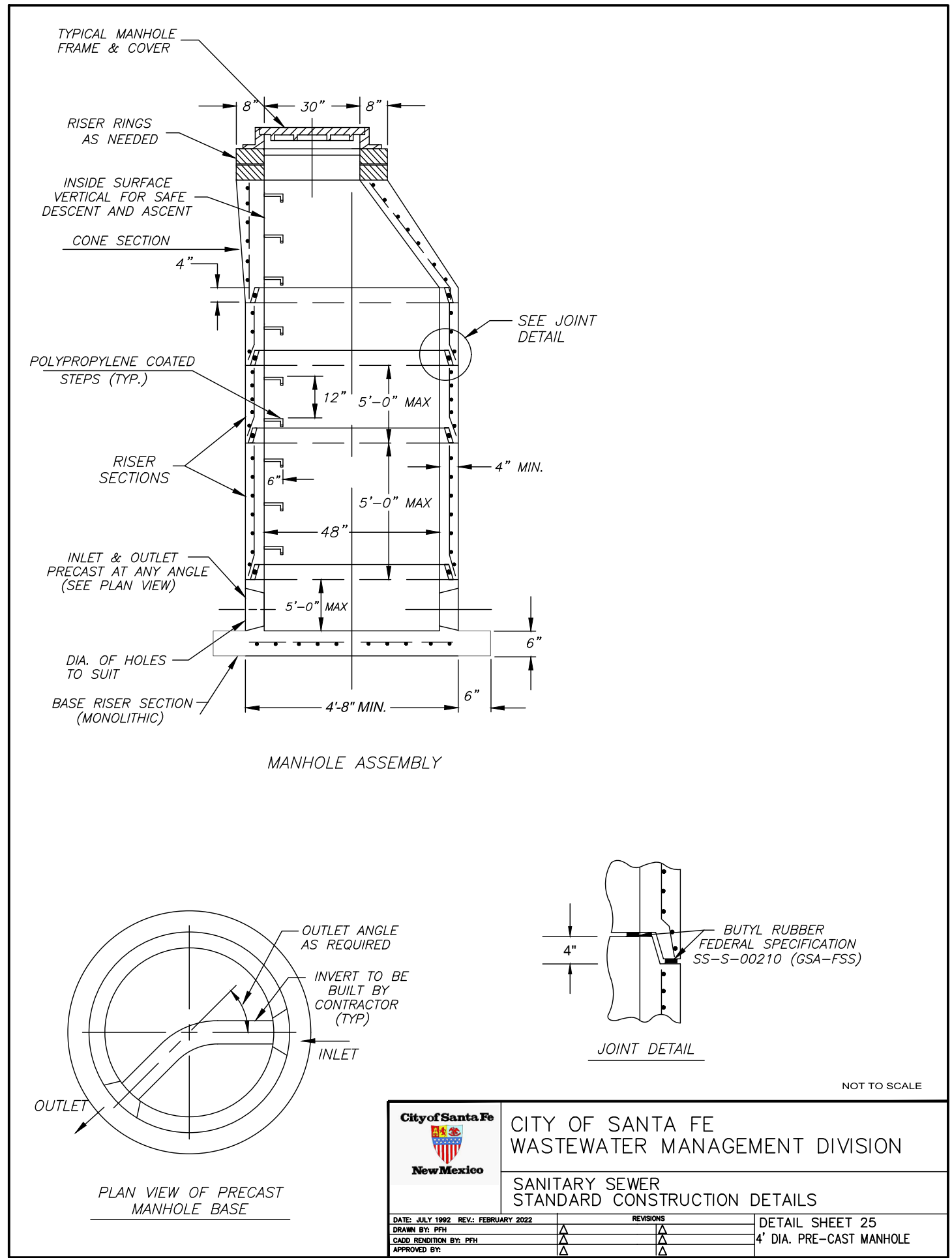
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**KEY PLAN**

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 CITY OF SANTA FE  
 SANITARY SEWER STANDARD  
 CONSTRUCTION DETAILS  
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<p><b>City of Santa Fe</b> New Mexico</p>	<p>CITY OF SANTA FE WASTEWATER MANAGEMENT DIVISION</p>													
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<p>DRAWN BY: PFH CADD RENDITION BY: PFH APPROVED BY:  </p>														

**ISSUE/REVISION**

I/R	DATE	DESCRIPTION

## GENERAL CONDITIONS NOTES

- Work performed shall comply with the following:
  - These General Notes, Construction Documents and Specifications.
  - All applicable local, state, and federal codes, ordinances and regulations. All codes listed in Specifications and Drawings shall be inclusive of all codes, regulations and requirements adopted by the State of New Mexico, including all Amendments.
- Source of base information is AECOM and is assumed to be correct. Report any discrepancies immediately to the Owner's representative.
- Verify locations of pertinent site improvements installed under other contracts. If any part of this plan cannot be followed due to site conditions, contact owner's representative for instructions prior to commencing work.
- Contact local underground utility services for utility location and identification, prior to commencing work.
- Perform excavation in the vicinity of underground utilities with care and by hand, if necessary. The contractor bears full responsibility for this work and disruption or damage to utilities shall be repaired immediately and at no expense to the owner. No additional compensation or time extension for delays, inconveniences, or damages sustained will be made to contractor due to interferences from utility appurtenances or the operation of moving them resulting from contractor's negligence.
- Field verify all elevations, dimensions, and right-of-way prior to the beginning of construction. The contractor shall limit all work on this project within the existing right-of-way or public easement.

## TREE PRESERVATION NOTES

- All existing trees and vegetation stands to be preserved as indicated on the Preservation Plan shall be protected by fence as indicated. The fence shall be firmly anchored into the ground and shall remain upright and intact until all construction activity is complete. Construction activities or material storage shall not occur within these protected areas. Prior to commencing construction, the Contractor shall stake the protective fencing locations in the field and review with the Engineer and Landscape Architect for contractibility. Adjustments to the tree protection as necessary will be made in the field at that time. The location of the protective fencing shall be approved onsite by the Landscape Architect prior to the start of any site work.
- When excavation near a tree to be protected must be carried out, damage can be limited by root pruning. Root pruning shall be completed before grading is started and shall occur beneath the protective fencing as shown on the plan.
- When a tree identified for preservation is damaged or removed due to construction it is the contractor's responsibility to replace the tree with the same species, 8' min height.

## SOIL PREPARATION

- Remove existing topsoil with native seed bank from locations designated in the drawings and stockpile on site for future spreading as part of reclamation / reseeding activities. Redistribute topsoil in locations and thickness per landscape plans.
- Prior to the installation of the landscape, contractor to conduct soil test (soil composition / nutrients) of native soils, prepare soil, and add amendments as recommended by testing lab and approved by Landscape Architect to ensure a proper environment for plant root development.
- Contractor to de-compact soils in designated planting areas by roto-tilling, disking or ripping to a depth of 6" minimum.
- After initial soil de-compact procedures are performed, soil amendments to be added and be mixed thoroughly with existing soil. The addition of soil amendments is determined from soil tests conducted prior to work commencing. Soil amendments may include inorganic material such as sand, silt or clay, which help improve soil texture. Organic material such as compost or manure may also be used and help improve soil structure. Other amendments such as fertilizer improve nutrient content and sulfur adjusts the soil PH level.
- During the landscape installation, various areas of the site may be re-compacted due to the use of equipment and vehicles. This compaction is typically limited to the upper 4-6" of the soil. Prior to the installation of plant material in these areas, the compaction shall be reduced to 80% or less using previously described methods.

## LANDSCAPE PLANTING NOTES

- Verify locations of pertinent site improvements installed under other sections. If any part of this plan cannot be followed due to site conditions, contact Landscape Architect for instructions prior to commencing work.
- Exact locations of plant materials to be approved by the Landscape Architect in the field prior to installation. Landscape Architect reserves the right to adjust plants to exact location in field.
- Verify plant counts and square footages: Quantities are provided as Owner information only. If quantities on plant list differ from graphic indications, then graphics shall prevail.
- Contact the local underground utility services for utility location and identification. Perform excavation in the vicinity of underground utilities with care and if necessary, by hand. The Contractor bears full responsibility for this work and disruption or damage to utilities shall be repaired immediately at no expense to the Owner.
- Trees shall bear same relation to finished grade as it bore to existing or specified otherwise.
- Trees to be planted a minimum of 4 feet from face of building, or pavement, except as approved by Landscape Architect.
- Provide matching forms and sizes for plant materials within each species and size designated on the drawings.
- Align and equally space in all directions trees and shrubs so designated per these notes and drawings.
- Landscape Architect to review plant materials at source or by photographs prior to digging or shipping of plant materials.
- Revegetate all areas disturbed due to construction activities as outlined in the contract documents. Review extent of areas to be revegetated with Landscape Architect prior to commencing work.

## POLE + WHIP PLANTING NOTES

- Description
  - Work consists of furnishing and installing all live cuttings (also called poles + whips) for the Planting Zones as specified in the Contract, or as directed by the Contracting Officer.
  - Prior to the start of work on this item, the Contractor shall submit a proposed construction schedule, including source of supply of live cuttings, to the Contracting Officer for review and approval. No work shall be performed until this schedule is approved by the Contracting Officer. Installation shall take place when plants are dormant or as soon as possible once they are out of dormancy, no later than May 1.
- Materials
  - Live Stakes
    - Live cuttings for live stakes shall be 1/2 to 3/4 inches (1/2 - 3/4") in diameter and at least three feet (3') in length. Side branches shall be removed and the bark left intact prior to installation.
    - Live stake cuttings shall consist of a mix of the species indicated in the plant composition schedules. Any one species no more than 50% of the mix.
- Construction / Installation
  - Preparation
    - The source of all live cuttings shall be from within twenty-five (25) miles of the project site. As possible, cuttings shall be harvested from locations along the Santa Fe River or another riparian corridor within Santa Fe County ownership. Obtain approval for harvesting from the Owner. Harvested material should be limited to no more than 20% of the original plant.
    - It is preferred that live materials are installed the same day that they are harvested. If installation of live materials cannot be accomplished on the same day and storage is required, live materials shall be stored for a period no longer than two (2) days. Any storage of live materials must be approved by the Contracting Officer prior to storing.
    - Live materials must be protected against drying out and overheating before/during transport (e.g., they shall be covered, transported in unheated vehicles, moistened, kept in soak pits and/or buckets with water) and on-site prior to installation (e.g., by storing in controlled conditions, storing in shade, covering with evergreen branches or plastic, placing in moist soil). Live materials shall receive continuous shade, shall be sheltered from the wind, and shall be continuously protected from drying. Where water is available, live branch cuttings shall be sprayed or immersed with water. Warm water (over 150/C) stimulates growth and should be used only upon the approval of the Contracting Officer.
  - Installation
    - Use a rod to create a pilot hole into which the live stake will be installed. It is preferable that the pilot hole diameter be slightly smaller than the diameter of the live stake being installed. A dead-pan hammer may facilitate creation of the hole.
    - Buds on the stakes shall be oriented in an upward position prior to placing in the pilot hole. The downward end shall be trimmed at a diagonal or tapered to a point to facilitate insertion into the soil.
    - Drive live stakes into the pilot hole so that sixty percent (60%) of the stake is below the ground surface. One live stake should be inserted into each pilot hole.
    - Tamp the soil around the stake to increase soil-plant contact and ensure plant growth.
    - Trim the emerging aboveground part of the live stake to 6-8" using a horizontal blunt cut. The portion that is trimmed can be installed similarly in another pilot hole.

## LANDSCAPE SCHEDULE

### ITEM No. 664000 - LANDSCAPE COMPLETE BASE BID

LINE ITEM	DESCRIPTION	UNIT	ESTIMATED QUANTITY
1	TREE PRESERVATION FENCING	LF	3,000
2	PLANT SALVAGING	LS	LS
3	TOP SOIL STOCKPILING / REDISTRIBUTION	CY	1,400
4	WILLOW CUTTINGS- BANK PROTECTION (8' LENGTH IN 8" DIA SONOTUBE, 3 CUTTINGS PER HOLE)	EA	160
5	SHRUBS, CONTAINER (1 GAL)	EA	250
6	TREES, CONTAINER (15 GAL)	EA	80
7	WHIPS (8' LENGTH)	EA	360
9	POLES (12'-16" LENGTH)	EA	150
10	AMENDED BACKFILL (ORGANIC MULCH / SAND, 18" DEPTH)	CY	140
11	COBBLE, MULCH 4"-8" ANGULAR	CY	450
12	GRAVEL, MULCH 1" ANGULAR	CY	90
13	CHECK DAM, DRY STACKED STONE	EA	6
14	BOULDERS	EA	20
15	MISC. GRADING	LS	LS
16	CLASS 'A' SEEDING - SEED MIX A	AC	4.00
17	CLASS 'A' SEEDING - SEED MIX B	AC	1.00
18	CLASS 'C' SEEDING - SEED MIX C	AC	5.00
19	LANDSCAPE GRADING	LS	LS
20	WATERING, ESTABLISHMENT, AND MAINTENANCE	LS	LS
21	WAYFINDING SIGNAGE	LS	LS

### ITEM No. 664000 - LANDSCAPE COMPLETE ADD ALT 1

LINE ITEM	DESCRIPTION	UNIT	ESTIMATED QUANTITY
1	TREE PRESERVATION FENCING	LF	250
2	TOP SOIL STOCKPILING / REDISTRIBUTION	CY	160
3	BOULDERS	EA	6
4	CLASS 'A' SEEDING - SEED MIX A	AC	0.15
5	CLASS 'C' SEEDING - SEED MIX C	AC	0.50
6	WATERING, ESTABLISHMENT, AND MAINTENANCE	LS	LS
7	WAYFINDING SIGNAGE	LS	LS

#### NOTE:

ALL LABOR, MATERIALS, EQUIPMENT, AND OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK LISTED ABOVE AND DETAILS IN THE LANDSCAPE PLANS SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICE FOR ITEM No. 664000 - LANDSCAPE COMPLETE AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.

## REVEGETATION SEEDING NOTES

- Erodible Surface Area: All requirements outlined in the Federal Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) and the New Mexico Clean Water Act shall be strictly adhered to during the course of constructing this project. Exposed areas of disturbance shall be kept to a minimum to perform project construction and shall be protected by the application of tackifier as stated below and any other sediment control devices required until permanent measures are applied.
- Prior to commencing the seeding operation, the Project Manager, Landscape Architect, and Seeding Contractor's Representative shall review areas to be treated to determine the appropriate class of seeding and to ensure that slopes have been constructed properly. Seeding equipment shall also be inspected during this period to ensure proper operation. Any work done prior to this inspection shall be rejected. All areas to be seeded shall be as directed by the Project Manager and / or the Landscape Architect.
- Areas 4:1 or flatter shall be treated with NMDOT Class "A" seeding techniques; areas with slopes 3:1 or steeper requiring revegetation shall be treated with NMDOT Class "C" seeding techniques. See Landscape Drawings for Revegetation Seeding Class designations to be installed per NMDOT Specification 632 Revegetation.
- Seed mixes shall be as follows:

#### SEED MIX C: Native Grass seed mix shall be as follows:

Botanical Name	Common Name	Rate
Bouteloua gracilis "Hatchila"	Blue Grama	7.0 lb. live seed/Acre
Oryzopsis hymenoides	Indian Ricegrass	2.0 lb. live seed/Acre
Bouteloua curtipendula "Niner"	Sideoats Grama	4.0 lb. live seed/Acre
Hilaria jamesii	Galleta	2.0 lb. live seed/Acre
Buchloe dactyloides	Buffalograss	2.0 lb. live seed/Acre
Sporobolus airoides	Alkali Sacaton	2.0 lb. live seed/Acre
Agropyron scoparium	Little Bluestem	2.0 lb. live seed/Acre

#### SEED MIX B: Native Grass and Shrub seed mix:

Mix shrub seed mix (below) with SEED MIX C (above) for rain gardens, swales, and bio-swale as follows:

Botanical Name	Common Name	Rate
Krashennikovia lanata	Winterfat	0.25 lb. live seed/Acre
Fallugia paradoxa	Apache Plume	0.125 lb. live seed/Acre
Yucca glauca	Narrowleaf Yucca	0.25 lb. live seed/Acre

#### SEED MIX A: Native Grass and Wildflower seed mix:

Mix SEED MIX C (above) with wildflower seed 'High Plains Seed Mix' by Plants of the Southwest 3095 Agua Fria St. Santa Fe, NM 87507. Phone: (505)438-888, or approved equal. Seed mix rate: 1.0 lb/6400 SF. Distribute in designated areas prior to installing mulch. Confirm wildflower seeding areas prior to ordering seed.

Botanical Name	Common Name	Botanical Name	Common Name
Liatris punctata	Spotted Gayfeather	Mirabilis multiflora	Desert 4 O'Clock
Coreopsis lanceolata	Lanceleaf Coreopsis	Antirrhinum majus	Pink Wild Snapdragon
Eschscholzia californica	California Poppy	Penstemon strictus	Rocky Mt. Penstemon
Gaillardia pulchella	Firewheel	Ratibida columnifera	Mexican Hat
Ipomopsis aggregata	Skyrocket	Ratibida pinnata	Yellow Prairie Coneflower
Iris missouriensis	Western Blue Flag	Berlandiera lyrata	Chocolate Flower
Linum lewisii	Blue Flax	Cleome serrulata	Rocky Mountain Beeplant



#### PROJECT

### SANTA FE RIVER GREENWAY PROJECT (SECTION B)

#### CLIENT

### SANTA FE COUNTY



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Santa Fe, New Mexico 87501  
T 505.986.6200  
www.santafecountynm.gov

#### ENGINEERING CONSULTANT

**AECOM**  
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Santa Fe, New Mexico 87501  
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#### SUBCONSULTANTS

**GEOTECHNICAL**  
**TERRACON**  
T 505.797.4287

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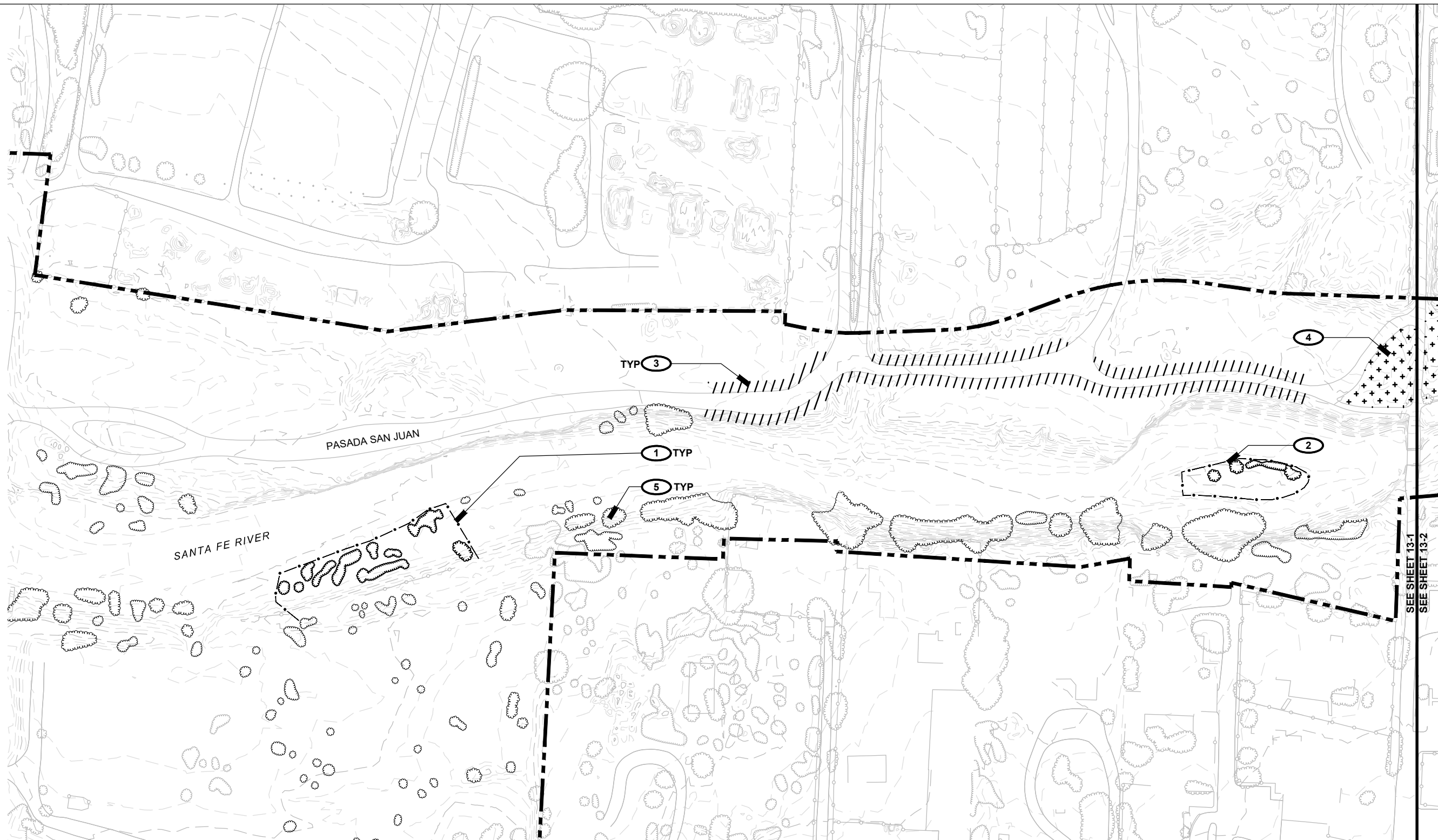
357-7708

#### SHEET TITLE

GENERAL NOTES + LANDSCAPE SCHEDULE

#### SHEET NUMBER

13 - 00



**PRESERVATION LEGEND**

- PROPERTY BOUNDARY
- MATCH LINE
- TREE PROTECTION FENCING
- PLANT SALVAGE AREA
- TOPSOIL HARVESTING AREA
- VEGETATION, EXISTING
- VEGETATION, PRESERVE W/ FENCE
- VEGETATION, PRESERVE AS POSSIBLE

**PRESERVATION KEYED NOTES**

- 1** EXISTING RIPARIAN VEGETATION STANDS: PROVIDE TREE PROTECTION FENCING ALONG PERIMETER OF VEGETATION AS INDICATED; CONFIRM EXTENTS IN FIELD WITH LANDSCAPE ARCHITECT. FENCING TO BE 4' HEIGHT ORANGE CONSTRUCTION FENCE W/ METAL T-BAR STAKES AT 10' O.C.; KEEP IN PLACE FOR DURATION OF CONSTRUCTION.
- 2** EXISTING RIPARIAN VEGETATION WITHIN RIVERBED: PRESERVE AND PROTECT; PROVIDE PROTECTION FENCING AS INDICATED IN NOTE 1; KEEP IN PLACE FOR DURATION OF CONSTRUCTION.
- 3** EXISTING PLANT (CACTI) SALVAGE AREA, NIC; CONTRACTOR TO COORDINATE WITH OWNER, WHO WILL LEAD HARVESTING EFFORTS PRIOR TO CONSTRUCTION; IDENTIFY POSSIBLE LOCATIONS FOR ON-SITE PLANT STORAGE.
- 4** TOPSOIL AND NATIVE SEED BANK HARVESTING AREA; REMOVE EXISTING TOP 4" OF SOIL AND STOCKPILE ON SITE FOR FUTURE REUSE; CONFIRM EXTENT OF HARVESTING AREA IN FIELD W/ LANDSCAPE ARCHITECT. SEE LANDSCAPE PLANS FOR AREAS TO RECEIVE HARVESTED TOPSOIL AS PART OF RESTORATION EFFORTS.
- 5** EXISTING VEGETATION TO BE PRESERVED AS POSSIBLE.

DRAWING SCALE: 1"=100'



SEE SHEET 13-1  
SEE SHEET 13-2



**PROJECT**

SANTA FE RIVER  
GREENWAY PROJECT  
(SECTION B)

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COUNTY



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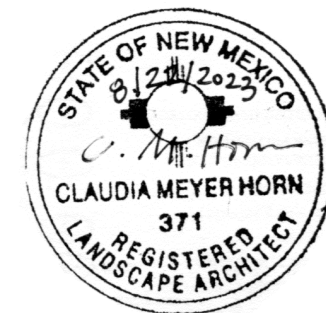
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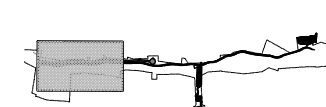
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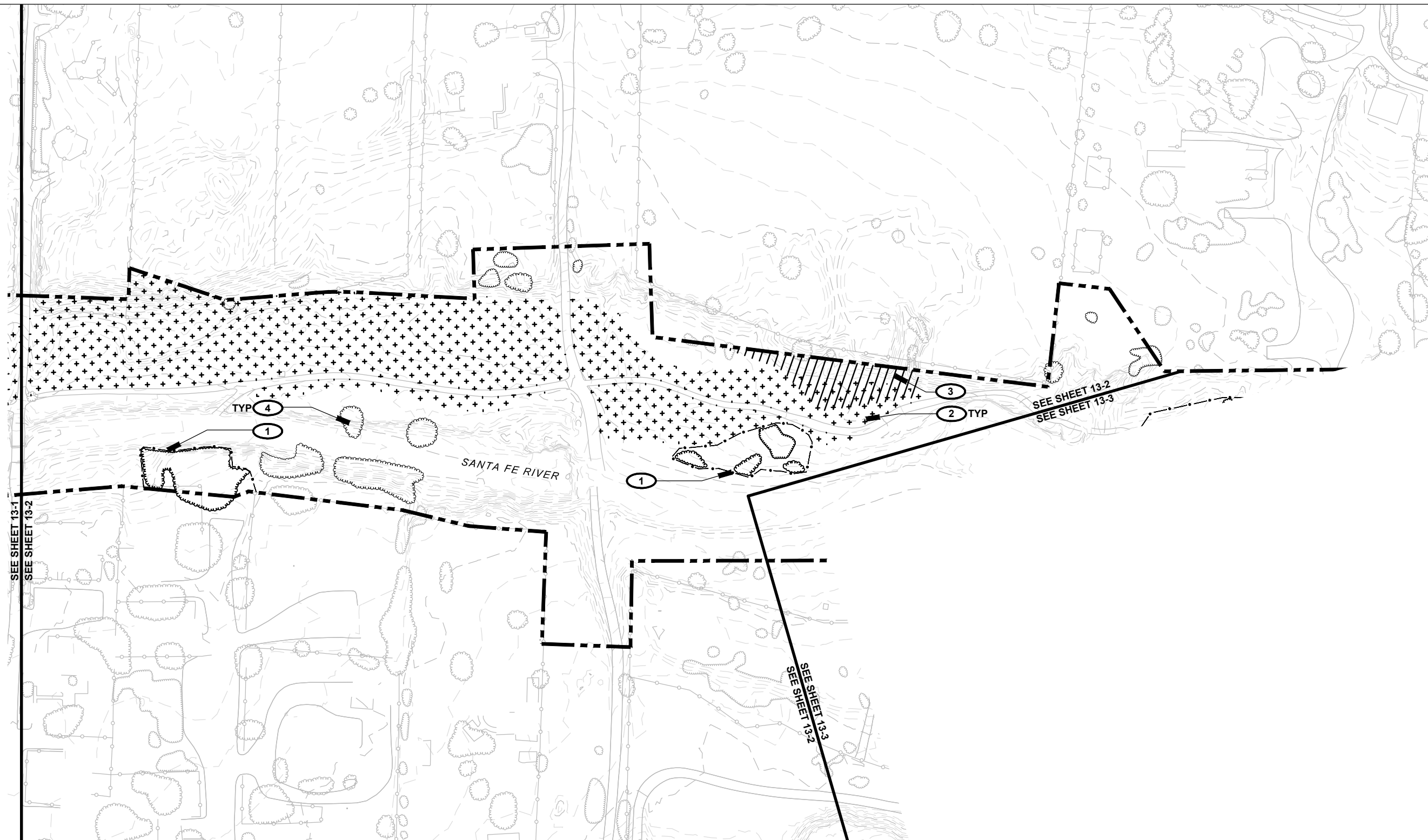
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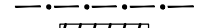
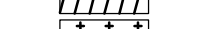
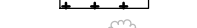
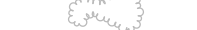
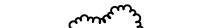

LANDSCAPE PRESERVATION  
PLAN

**SHEET NUMBER**

13 - 1



**PRESERVATION LEGEND**

-  PROPERTY BOUNDARY
-  MATCH LINE
-  TREE PROTECTION FENCING
-  PLANT SALVAGE AREA
-  TOPSOIL HARVESTING AREA
-  VEGETATION, EXISTING
-  VEGETATION, PRESERVE W/ FENCE
-  VEGETATION, PRESERVE AS POSSIBLE

**PRESERVATION KEYED NOTES**

- 1** EXISTING RIPARIAN VEGETATION STANDS; PROVIDE TREE PROTECTION FENCING ALONG PERIMETER OF VEGETATION AS INDICATED; CONFIRM EXTENTS IN FIELD WITH LANDSCAPE ARCHITECT. FENCING TO BE 4' HEIGHT ORANGE CONSTRUCTION FENCE W/ METAL T-BAR STAKES AT 10' O.C.; KEEP IN PLACE FOR DURATION OF CONSTRUCTION.
- 2** EXISTING PLANT (CACTI) SALVAGE AREA, NIC; CONTRACTOR TO COORDINATE WITH OWNER, WHO WILL LEAD HARVESTING EFFORTS PRIOR TO CONSTRUCTION; IDENTIFY POSSIBLE LOCATIONS FOR ON-SITE PLANT STORAGE.
- 3** TOPSOIL AND NATIVE SEED BANK HARVESTING AREA; REMOVE EXISTING TOP 4" OF SOIL AND STOCKPILE ON SITE FOR FUTURE REUSE; CONFIRM EXTENT OF HARVESTING AREA IN FIELD W/ LANDSCAPE ARCHITECT. SEE LANDSCAPE PLANS FOR AREAS TO RECEIVE HARVESTED TOPSOIL AS PART OF RESTORATION EFFORTS.
- 4** EXISTING VEGETATION TO BE PRESERVED AS POSSIBLE.

DRAWING SCALE: 1"=100'



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GREENWAY PROJECT  
(SECTION B)

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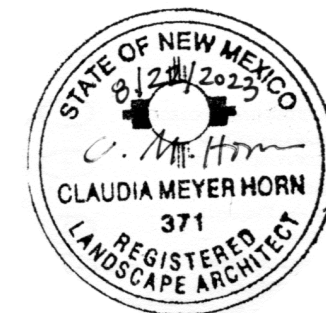
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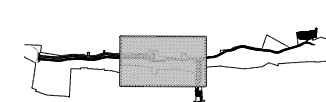
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**ISSUE/REVISION**

I/R	DATE	DESCRIPTION

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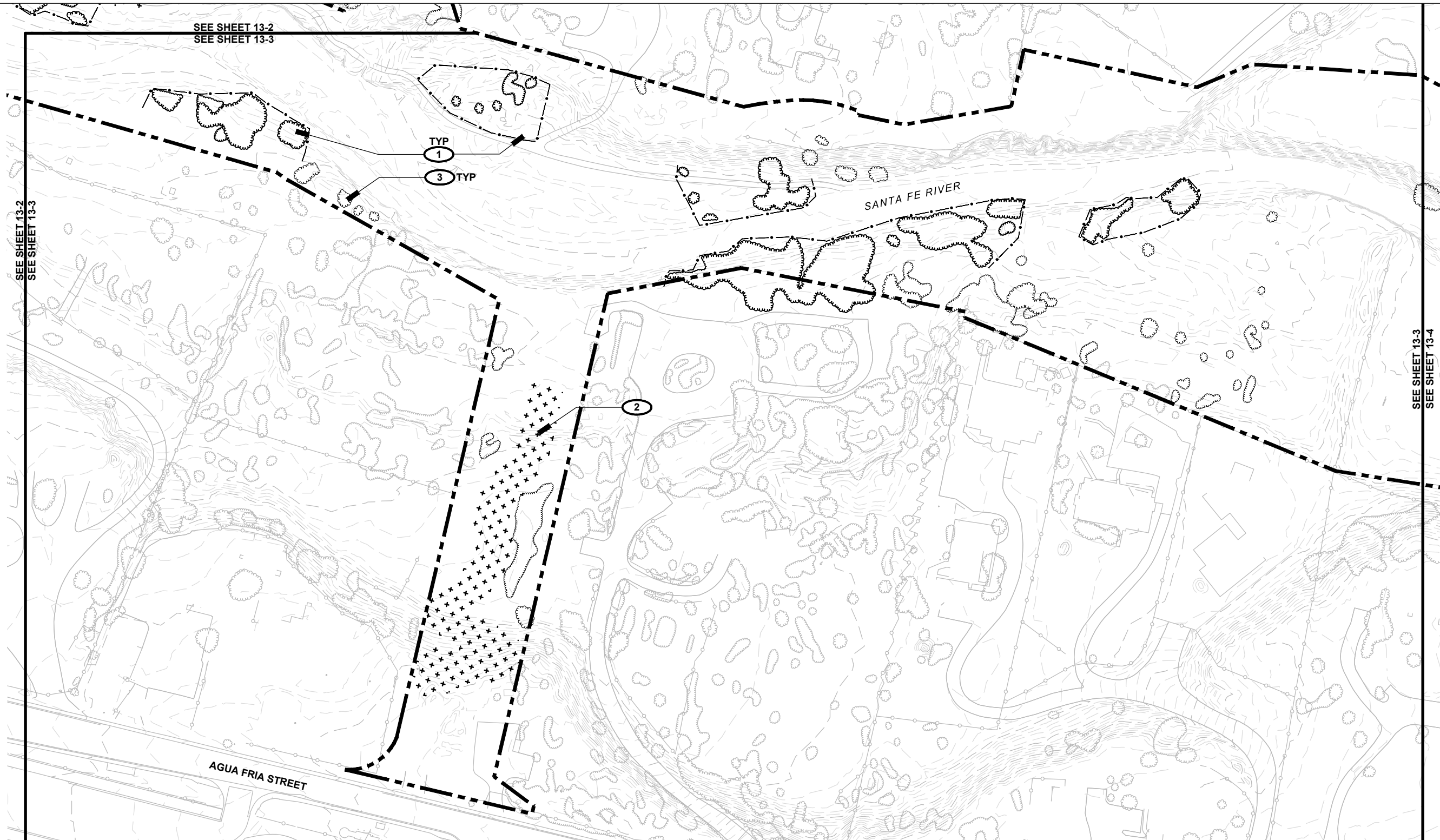
357-7708

**SHEET TITLE**

LANDSCAPE PRESERVATION  
PLAN

**SHEET NUMBER**

13 - 2

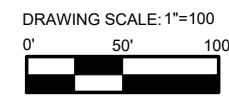


**PRESERVATION LEGEND**

- PROPERTY BOUNDARY
- MATCH LINE
- TREE PROTECTION FENCING
- PLANT SALVAGE AREA
- TOPSOIL HARVESTING AREA
- VEGETATION, EXISTING
- VEGETATION, PRESERVE W/ FENCE
- VEGETATION, PRESERVE AS POSSIBLE

**PRESERVATION KEYED NOTES**

- 1** EXISTING RIPARIAN VEGETATION STANDS; PROVIDE TREE PROTECTION FENCING ALONG PERIMETER OF VEGETATION AS INDICATED; CONFIRM EXTENTS IN FIELD WITH LANDSCAPE ARCHITECT. FENCING TO BE 4' HEIGHT ORANGE CONSTRUCTION FENCE W/ METAL T-BAR STAKES AT 10' O.C.; KEEP IN PLACE FOR DURATION OF CONSTRUCTION.
- 2** TOPSOIL AND NATIVE SEED BANK HARVESTING AREA; REMOVE EXISTING TOP 4" OF SOIL AND STOCKPILE ON SITE FOR FUTURE REUSE; CONFIRM EXTENT OF HARVESTING AREA IN FIELD W/ LANDSCAPE ARCHITECT. SEE LANDSCAPE PLANS FOR AREAS TO RECEIVE HARVESTED TOPSOIL AS PART OF RESTORATION EFFORTS.
- 3** EXISTING VEGETATION TO BE PRESERVED AS POSSIBLE.



**PROJECT**  
 SANTA FE RIVER  
 GREENWAY PROJECT  
 (SECTION B)

**CLIENT**  
 SANTA FE COUNTY  
 100 Catron St.  
 Santa Fe, New Mexico 87501  
 T 505.986.6200  
 www.santafecountynm.gov

**ENGINEERING CONSULTANT**  
 AECOM  
 150 Washington Avenue, Suite 201  
 Santa Fe, New Mexico 87501  
 T 505.855.7500  
 www.aecom.com

**SUBCONSULTANTS**  
 GEOTECHNICAL  
**TERRACON**  
 T 505.797.4287  
 LANDSCAPE ARCHITECTURE  
**DESIGN OFFICE**  
 T 505.983.1415  
 TOPOGRAPHIC MAPPING  
**COOPER AERIAL SURVEYS CO.**  
 T 602.678.5111  
 SUBSURFACE UTILITY ENGINEERING  
**COLLIERS ENGINEERING & DESIGN**  
 T 505.228.3154

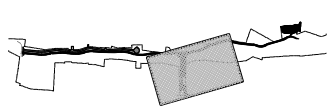
**REGISTRATION**



**ISSUE/REVISION**

IR	DATE	DESCRIPTION

**KEY PLAN**



**PROJECT NUMBER**

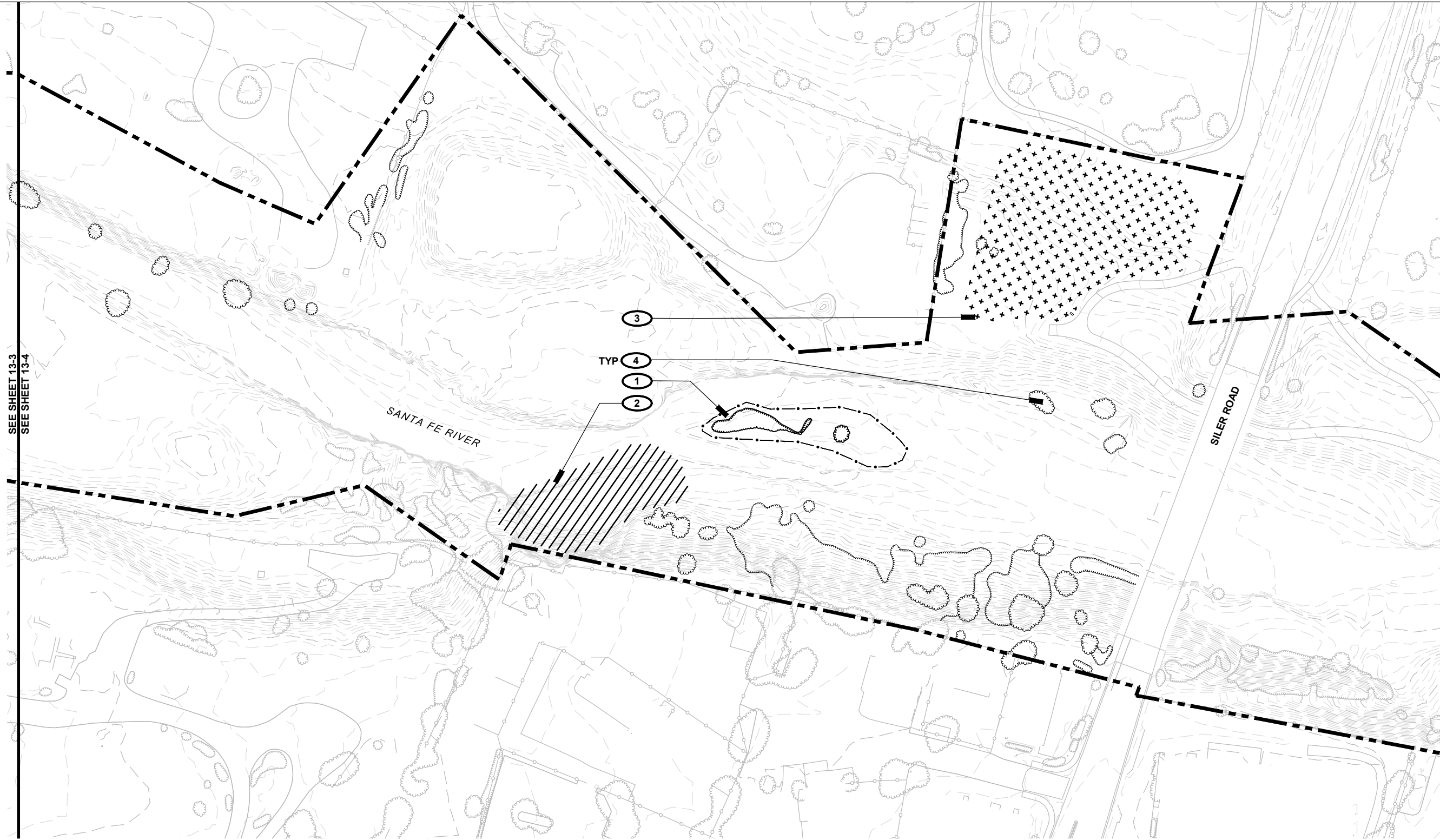
357-7708

**SHEET TITLE**

LANDSCAPE PRESERVATION PLAN

**SHEET NUMBER**

13 - 3

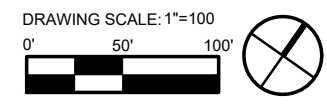


**PRESERVATION LEGEND**

- PROPERTY BOUNDARY
- MATCH LINE
- TREE PROTECTION FENCING
- PLANT SALVAGE AREA
- TOPSOIL HARVESTING AREA
- VEGETATION, EXISTING
- VEGETATION, PRESERVE W/ FENCE
- VEGETATION, PRESERVE AS POSSIBLE

**PRESERVATION KEYED NOTES**

- 1** EXISTING RIPARIAN VEGETATION STANDS; PROVIDE TREE PROTECTION FENCING ALONG PERIMETER OF VEGETATION AS INDICATED; CONFIRM EXTENTS IN FIELD WITH LANDSCAPE ARCHITECT. FENCING TO BE 4' HEIGHT ORANGE CONSTRUCTION FENCE W/ METAL T-BAR STAKES AT 10' O.C.; KEEP IN PLACE FOR DURATION OF CONSTRUCTION.
- 2** WILLOW HARVESTING AREA, NIC; CONTRACTOR TO COORDINATE W/ OWNER TO SCHEDULE HARVESTING W/ CONSTRUCTION IN THIS AREA; IDENTIFY POSSIBLE LOCATIONS FOR ON-SITE PLANT STORAGE.
- 3** TOPSOIL AND NATIVE SEED BANK HARVESTING AREA; REMOVE EXISTING TOP 4" OF SOIL AND STOCKPILE ON SITE FOR FUTURE REUSE; CONFIRM EXTENT OF HARVESTING AREA IN FIELD W/ LANDSCAPE ARCHITECT. SEE LANDSCAPE PLANS FOR AREAS TO RECEIVE HARVESTED TOPSOIL AS PART OF RESTORATION EFFORTS.
- 4** EXISTING VEGETATION TO BE PRESERVED AS POSSIBLE.



**PROJECT**  
**SANTA FE RIVER GREENWAY PROJECT (SECTION B)**

**CLIENT**  
**SANTA FE COUNTY**  
 100 Catron St.  
 Santa Fe, New Mexico 87501  
 T 505.986.6200  
 www.santafecountynm.gov

**ENGINEERING CONSULTANT**  
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 150 Washington Avenue, Suite 201  
 Santa Fe, New Mexico 87501  
 T 505.855.7500  
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 T 505.797.4287  
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 T 602.678.5111  
**SUBSURFACE UTILITY ENGINEERING**  
**COLLIERS ENGINEERING & DESIGN**  
 T 505.228.3154

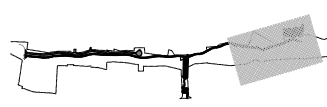
**REGISTRATION**



**ISSUE/REVISION**

IR	DATE	DESCRIPTION

**KEY PLAN**



**PROJECT NUMBER**

357-7708

**SHEET TITLE**

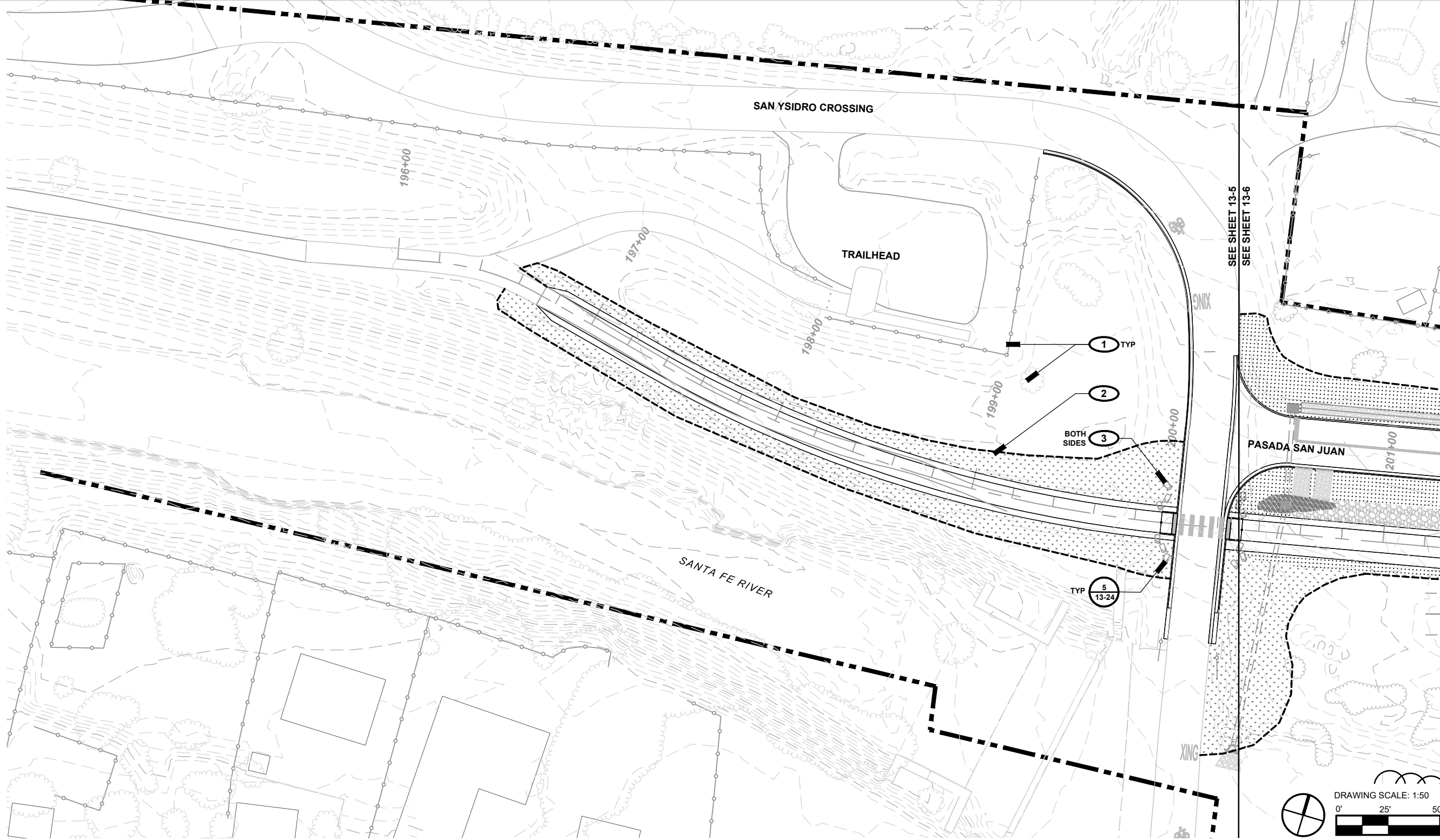
LANDSCAPE PRESERVATION PLAN

**SHEET NUMBER**

13 - 4



I/R	DATE	DESCRIPTION

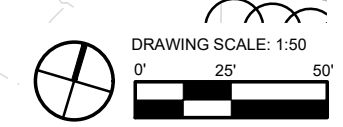


**LEGEND**

	PROPERTY BOUNDARY		RESEEDING, SEED MIX A
	MATCH LINE		RESEEDING, SEED MIX C
	FENCE (EXISTING)		RAIN GARDEN / SEED MIX B
	OVERHEAD ELECTRIC		COBBLE
	SWALE		GRAVEL
	RESEEDING LIMIT		RIP RAP (OUTFALL)
	PROPOSED TREE / SHRUB		CHECK DAM
	VEGETATION, EXISTING		VEGETATED BOULDER BANK PROTECTION
	VEGETATION, PRESERVED, PRIMARY		BOULDER BANK PROTECTION
	VEGETATION, PRESERVED, SECONDARY		

**LANDSCAPE KEYED NOTES**

- 1** PRESERVE AND PROTECT EXISTING VEGETATION AND SITE ELEMENTS TO REMAIN, TYP.
- 2** RESEED AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, TYP.
- 3** TRAIL JUNCTION AT ROAD: INSTALL REMOVABLE BOLLARD AND BOULDERS AS SHOWN TO PROHIBIT VEHICULAR ACCESS

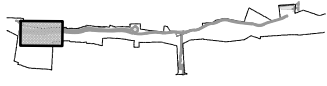


Approved: #  
 Checked: CH  
 Designer: JRO  
 Project Management Initials:  
 Filename: X:\1193 SF River Greenway\4-cadd\sheets\10-193-landscape.dwg





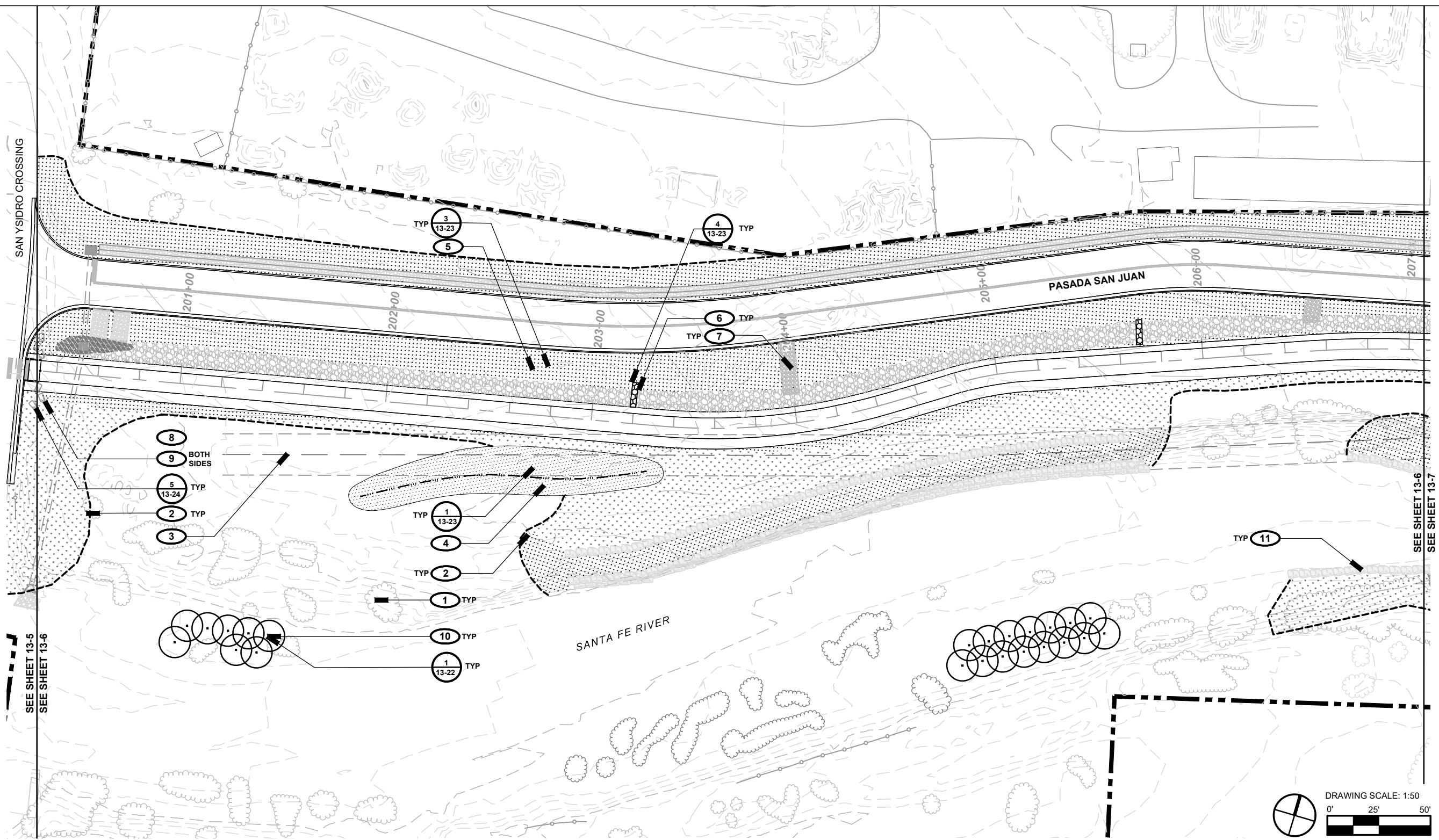
I/R	DATE	DESCRIPTION



357-7708

LANDSCAPE PLAN

13 - 6



**LEGEND**

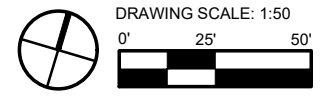
	PROPERTY BOUNDARY		RESEEDING, SEED MIX A
	MATCH LINE		RESEEDING, SEED MIX B
	FENCE (EXISTING)		RAIN GARDEN / SEED MIX B
	OVERHEAD ELECTRIC		COBBLE
	SWALE		GRAVEL
	RESEEDING LIMIT		RIP RAP (OUTFALL)
	PROPOSED TREE / SHRUB		CHECK DAM
	VEGETATION, EXISTING		VEGETATED BOULDER BANK PROTECTION
	VEGETATION, PRESERVED, PRIMARY		BOULDER BANK PROTECTION
	VEGETATION, PRESERVED, SECONDARY		

**LANDSCAPE KEYED NOTES**

- PRESERVE AND PROTECT EXISTING VEGETATION TO REMAIN, TYP.; SEE LANDSCAPE PRESERVATION PLANS
- RESEED AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, TYP.
- EXISTING OVERHEAD ELECTRIC; PRESERVE AND PROTECT DURING CONSTRUCTION
- WATER HARVESTING SWALE: FINE GRADE SWALE, 12"-18" DEPTH MAX. SPREAD 2" HARVESTED TOPSOIL WITHIN SWALE. LINE WITH GRAVEL. SEE DETAIL; CONFIRM EXTENTS IN FIELD WITH LANDSCAPE ARCHITECT
- BIOSWALE: COBBLE LINED SWALE TO HARVEST SURFACE RUNOFF FROM ADJACENT ROADWAY; SEE CIVIL PLANS FOR GRADING
- STONE CHECK DAM; CONFIRM LOCATION AND TOP OF STRUCTURE IN FIELD WITH LANDSCAPE ARCHITECT
- COBBLE RUN-DOWN AT CURB CUT LOCATIONS, SEE CIVIL PLANS AND DETAIL, TYP.
- RAIN GARDEN: WATER HARVESTING DEPRESSION TO COLLECT AND INFILTRATE SURFACE RUNOFF. SEE CIVIL FOR INTAKE AND OVERFLOW; LINE WITH 8" DEPTH ANGULAR 4"-8" COBBLE
- TRAIL JUNCTION AT ROAD: INSTALL REMOVABLE BOLLARD AND BOULDERS AS SHOWN TO PROHIBIT VEHICULAR ACCESS
- POLE PLANTINGS; CONFIRM EXTENTS IN FIELD WITH LANDSCAPE ARCHITECT; SPACE ON TRIANGULATED GRID 10' OC, TYP.
- BANK STABILIZATION RIVER FEATURE, SEE CIVIL PLANS

**PLANT LIST**

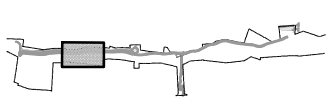
SYMB.	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
	Populus angustifolia*	Narrowleaf Cottonwood	23	>10' Pole; 2"-6" Ø at base



Project Management Initials: Designer: JRO Checked: CH Approved: #  
 Filename: X:\1193 SF River greenway\4-cadd\sheet\10-193-landscape.dwg



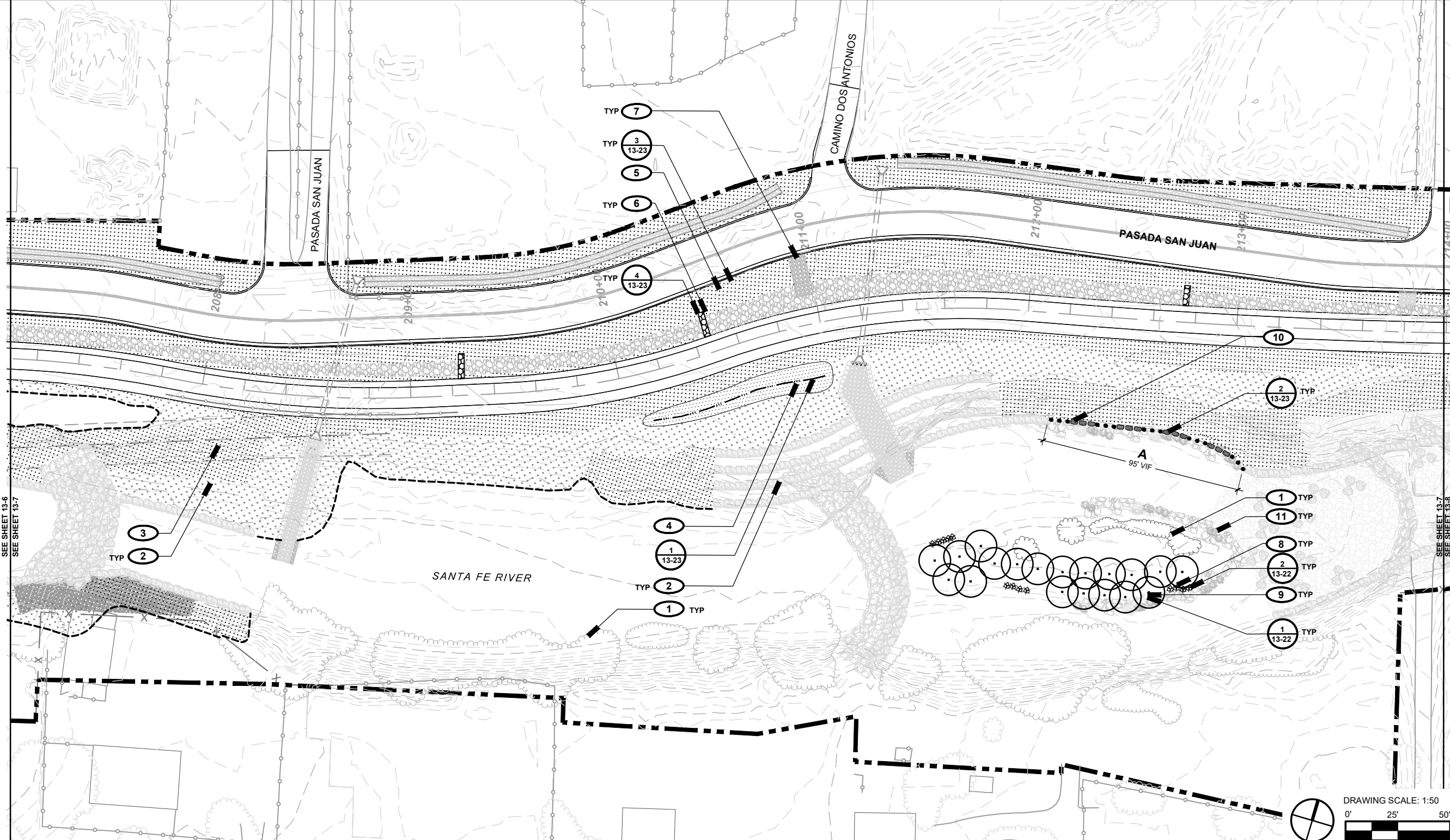
I/R	DATE	DESCRIPTION



357-7708

LANDSCAPE PLAN

13 - 7



**LEGEND**

	PROPERTY BOUNDARY		RESEEDING, SEED MIX A
	MATCH LINE		RESEEDING, SEED MIX C
	FENCE (EXISTING)		RAIN GARDEN / SEED MIX B
	OVERHEAD ELECTRIC		COBBLE
	SWALE		GRAVEL
	RESEEDING LIMIT		RIP RAP (OUTFALL)
	PROPOSED TREE / SHRUB		CHECK DAM
	VEGETATION, EXISTING		VEGETATED BOULDER BANK PROTECTION
	VEGETATION, PRESERVED, PRIMARY		BOULDER BANK PROTECTION
	VEGETATION, PRESERVED, SECONDARY		

**LANDSCAPE KEYED NOTES**

<b>1</b>	PRESERVE AND PROTECT EXISTING VEGETATION TO REMAIN, TYP.; SEE LANDSCAPE PRESERVATION PLANS	<b>8</b>	WILLOW CUTTING PLANTINGS: CONFIRM FINAL LOCATIONS IN FIELD PRIOR TO PLANTING
<b>2</b>	RESEED AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, TYP.	<b>9</b>	POLE PLANTINGS: CONFIRM EXTENTS IN FIELD WITH LANDSCAPE ARCHITECT; SPACE ON TRIANGULATED GRID 10' OC, TYP.
<b>3</b>	EXISTING OVERHEAD ELECTRIC; PRESERVE AND PROTECT DURING CONSTRUCTION	<b>10</b>	VEGETATED BANK: ALTERNATE BOULDER SECTIONS WITH WILLOW CUTTING PLANTINGS PER CHART AT RIGHT AND DETAIL
<b>4</b>	WATER HARVESTING SWALE: FINE GRADE SWALE, 12"-18" DEPTH MAX. SPREAD 2" HARVESTED TOPSOIL WITHIN SWALE, LINE WITH GRAVEL. SEE DETAIL: CONFIRM EXTENTS IN FIELD WITH LANDSCAPE ARCHITECT	<b>11</b>	BANK STABILIZATION RIVER FEATURE. SEE CIVIL PLANS
<b>5</b>	BIOSWALE: COBBLE LINED SWALE TO HARVEST SURFACE RUNOFF FROM ADJACENT ROADWAY; SEE CIVIL PLANS FOR GRADING		
<b>6</b>	STONE CHECK DAM; CONFIRM LOCATION AND TOP OF STRUCTURE IN FIELD WITH LANDSCAPE ARCHITECT		
<b>7</b>	COBBLE RUN-DOWN AT CURB CUT LOCATIONS, SEE CIVIL PLANS AND DETAIL, TYP.		

**PLANT LIST**

SYMB.	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
	Populus angustifolia*	Narrowleaf Cottonwood	19	>10' Pole; 2"-6" Ø at base
	Salix sp.*	Willow cuttings	13	>8' Pole, 3 per hole
<b>POLES + WHIPS (VEGETATED BANK PROTECTION)</b>				
	Salix sp.*	Willow cuttings	45	>8' Pole, 3 per hole

\*provide alternate cottonwood / willow species as available with prior approval from Landscape Architect

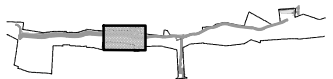
**VEGETATED BANK SEQUENCE CHART**

PLAN ID	VEGETATED SEGMENTS / LENGTH	BOULDER SEGMENTS / LENGTH	PLAN DIAGRAM (NTS)
<b>A</b>	5 SEGMENTS AT 10' LENGTH	4 / ±12'	

Project Management Initials: Designer: JRO Checked: CH Approved: #  
 Filename: X:\1193 SF River greenway\4-cad\sheet\13-7-193-landscape.dwg



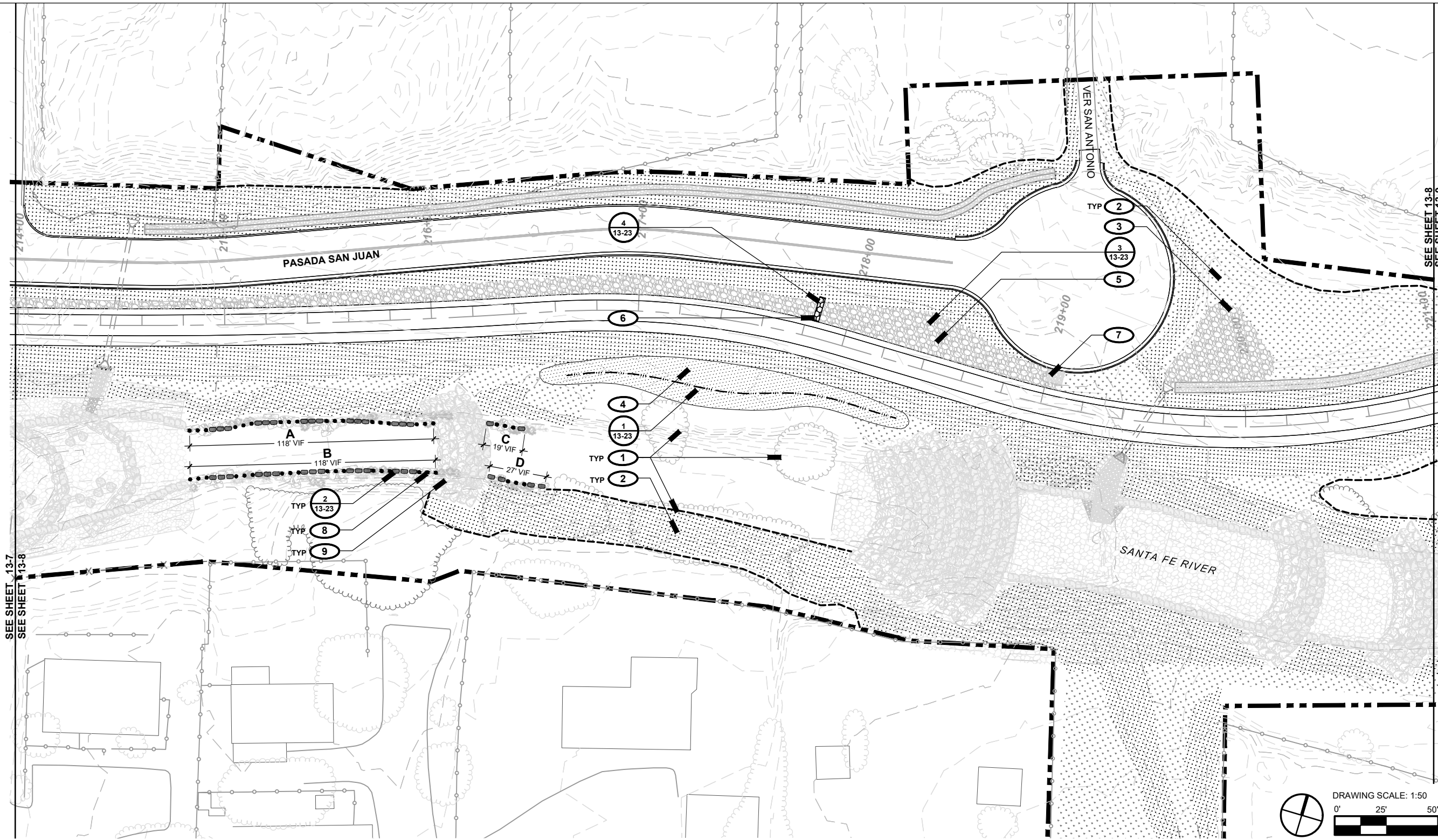
I/R	DATE	DESCRIPTION



357-7708

LANDSCAPE PLAN

13 - 8



**LEGEND**

- |  |                                  |  |                                   |
|--|----------------------------------|--|-----------------------------------|
|  | PROPERTY BOUNDARY                |  | RESEEDING, SEED MIX A             |
|  | MATCH LINE                       |  | RESEEDING, SEED MIX C             |
|  | FENCE (EXISTING)                 |  | RAIN GARDEN / SEED MIX B          |
|  | OVERHEAD ELECTRIC                |  | COBBLE                            |
|  | SWALE                            |  | GRAVEL                            |
|  | RESEEDING LIMIT                  |  | RIP RAP (OUTFALL)                 |
|  | PROPOSED TREE / SHRUB            |  | CHECK DAM                         |
|  | VEGETATION, EXISTING             |  | VEGETATED BOULDER BANK PROTECTION |
|  | VEGETATION, PRESERVED, PRIMARY   |  | BOULDER BANK PROTECTION           |
|  | VEGETATION, PRESERVED, SECONDARY |  |                                   |

**LANDSCAPE KEYED NOTES**

- PRESERVE AND PROTECT EXISTING VEGETATION TO REMAIN, TYP.; SEE LANDSCAPE PRESERVATION PLANS
- RESEED AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, TYP.
- RAIN GARDEN: WATER HARVESTING DEPRESSION TO COLLECT AND INFILTRATE SURFACE RUNOFF. SEE CIVIL FOR INTAKE AND OVERFLOW; LINE WITH 8" DEPTH ANGULAR 4"-8" COBBLE
- WATER HARVESTING SWALE: FINE GRADE SWALE, 12"-18" DEPTH MAX. SPREAD 2" HARVESTED TOPSOIL WITHIN SWALE, LINE WITH GRAVEL, SEE DETAIL; CONFIRM EXTENTS IN FIELD WITH LANDSCAPE ARCHITECT
- BIOSWALE: COBBLE LINED SWALE TO HARVEST SURFACE RUNOFF FROM ADJACENT ROADWAY; SEE CIVIL PLANS FOR GRADING
- STONE CHECK DAM: CONFIRM LOCATION AND TOP OF STRUCTURE IN FIELD WITH LANDSCAPE ARCHITECT
- COBBLE RUN-DOWN AT CURB CUT LOCATIONS, SEE CIVIL PLANS AND DETAIL, TYP.
- VEGETATED BANK: ALTERNATE BOULDER SECTIONS WITH WILLOW CUTTING PLANTINGS PER CHART AT RIGHT AND DETAIL
- BANK STABILIZATION RIVER FEATURE, SEE CIVIL PLANS

**PLANT LIST**

SYMB.	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
••••	Salix sp.*	Willow cuttings	126	>8" Pole, 3 per hole
*provide alternate cottonwood / willow species as available with prior approval from Landscape Architect				

**VEGETATED BANK SEQUENCE CHART**

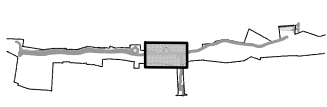
PLAN ID	VEGETATED SEGMENTS / LENGTH	BOULDER SEGMENTS / LENGTH	PLAN DIAGRAM (NTS)
A	6 / 10'	5 / ±11'	••••••••••••••••••••
B	6 / 10'	5 / ±12'	••••••••••••••••••••
C	1 / 10'	2 / ±5'	••••••••••
D	1 / 10'	2 / ±9'	••••••••••

SEE SHEET 13-7  
SEE SHEET 13-8

SEE SHEET 13-8  
SEE SHEET 13-9



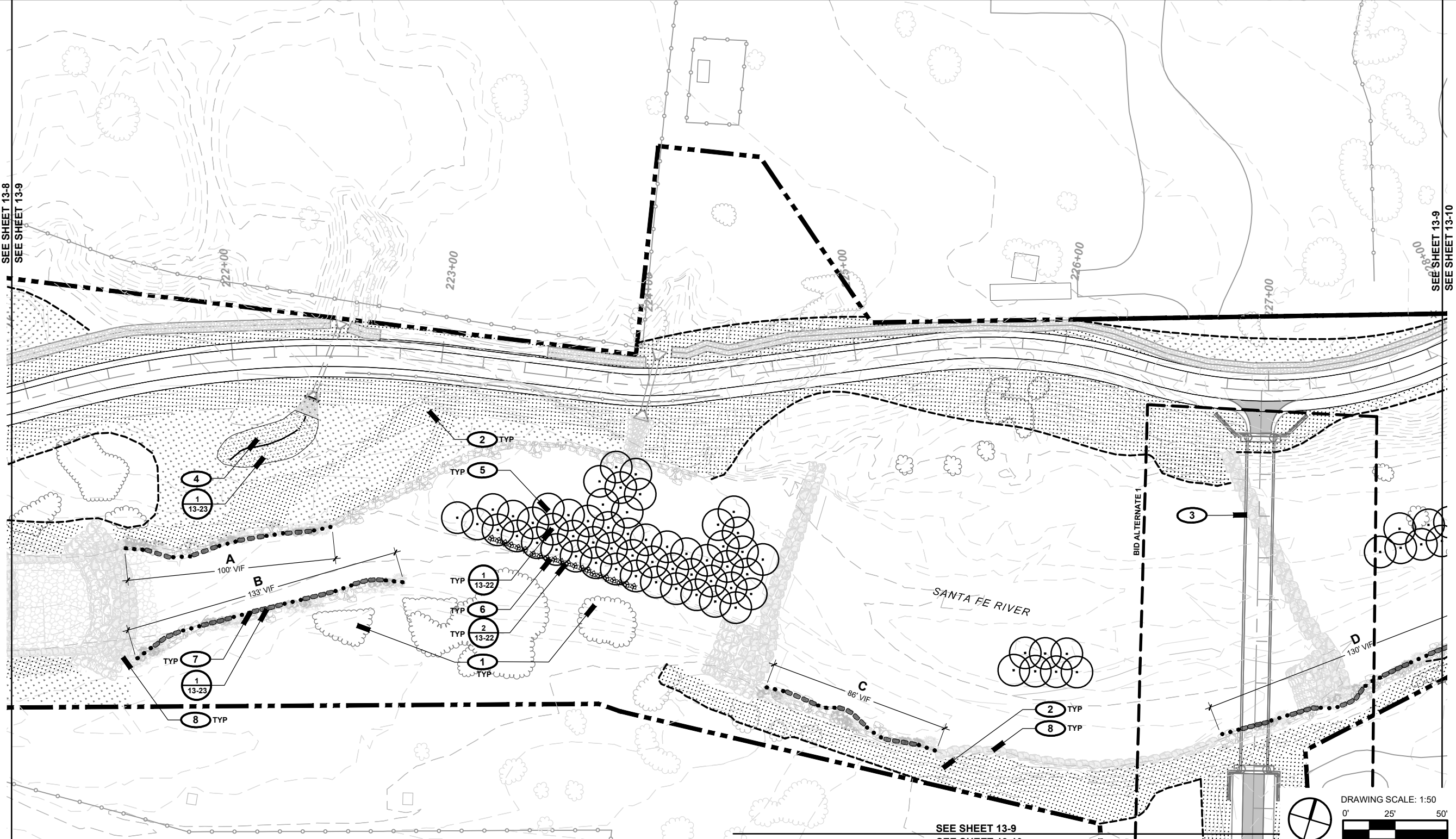
I/R	DATE	DESCRIPTION



357-7708

LANDSCAPE PLAN

13 - 9



**LEGEND**

	PROPERTY BOUNDARY		RESEEDING, SEED MIX A
	MATCH LINE		RESEEDING, SEED MIX C
	FENCE (EXISTING)		RAIN GARDEN / SEED MIX B
	OVERHEAD ELECTRIC		COBBLE
	SWALE		GRAVEL
	RESEEDING LIMIT		RIP RAP (OUTFALL)
	PROPOSED TREE / SHRUB		CHECK DAM
	VEGETATION, EXISTING		VEGETATED BOULDER BANK PROTECTION
	VEGETATION, PRESERVED, PRIMARY		BOULDER BANK PROTECTION
	VEGETATION, PRESERVED, SECONDARY		

**LANDSCAPE KEYED NOTES**

- 1** PRESERVE AND PROTECT EXISTING VEGETATION TO REMAIN, TYP., SEE LANDSCAPE PRESERVATION PLANS
- 2** RESEED AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, TYP.
- 3** BRIDGE / TRAIL CONNECTION - BID ALT 1; SEE CIVIL PLANS. BASE BID ASSUMES RESEEDING OF AREAS DISTURBED BY CONSTRUCTION
- 4** WATER HARVESTING SWALE: FINE GRADE SWALE, 12"-18" DEPTH MAX. CONNECT TO CULVERT OUTFALL RIP RAP. SPREAD 2" HARVESTED TOPSOIL WITHIN SWALE, LINE WITH GRAVEL, SEE DETAIL; CONFIRM EXTENTS IN FIELD WITH LANDSCAPE ARCHITECT
- 5** POLE PLANTINGS; CONFIRM EXTENTS IN FIELD WITH LANDSCAPE ARCHITECT; SPACE ON TRIANGULATED GRID 10' OC, TYP.
- 6** WILLOW CUTTING PLANTINGS; CONFIRM FINAL LOCATIONS IN FIELD PRIOR TO PLANTING
- 7** VEGETATED BANK: ALTERNATE BOULDER SECTIONS WITH WILLOW CUTTING PLANTINGS PER CHART AT RIGHT AND DETAIL
- 8** BANK STABILIZATION RIVER FEATURE; SEE CIVIL PLANS

**PLANT LIST**

SYMB.	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
<b>POLES + WHIPS</b>				
	Populus angustifolia*	Narrowleaf Cottonwood	66	>10' Pole; 2"-6" Ø at base
	Salix sp.*	Willow cuttings	22	>8' Pole, 3 per hole
<b>POLES + WHIPS (VEGETATED BANK PROTECTION)</b>				
	Salix sp.*	Willow cuttings	180	>8' Pole, 3 per hole

\*provide alternate cottonwood / willow species as available with prior approval from Landscape Architect

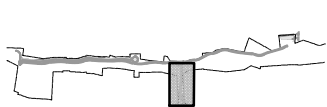
**VEGETATED BANK SEQUENCE CHART**

PLAN ID	VEGETATED SEGMENTS / LENGTH	BOULDER SEGMENTS / LENGTH	PLAN DIAGRAM (NTS)
A	5 / 10'	4 / ±13'	
B	6 / 10'	5 / ±12'	
C	4 / 10'	3 / ±16'	
D	4 / 10'	3 / ±16'	

Project Management Initials: Designer: JRO Checked: CH Approved: #  
 Filename: X:\1193 SF River greenway\4-cad\sheet\13-9-landscape.dwg



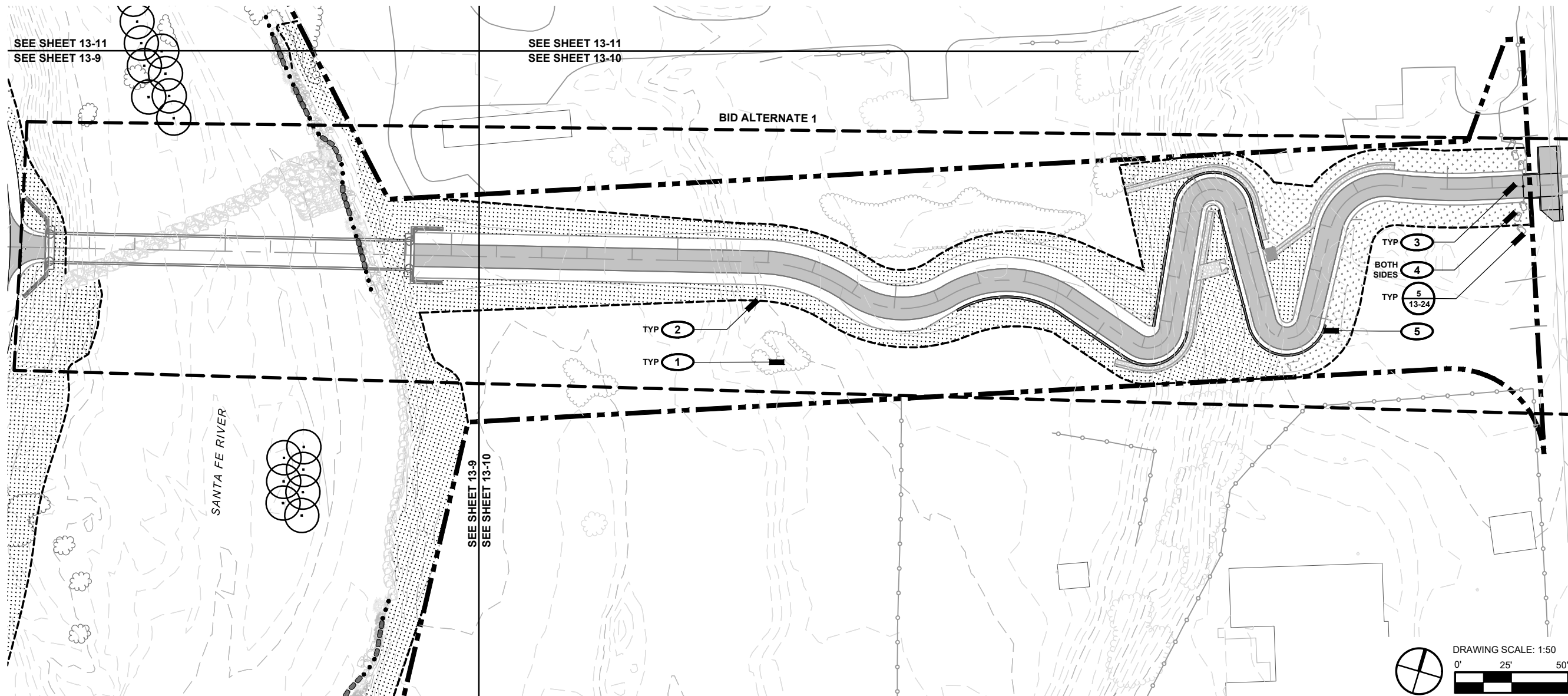
I/R	DATE	DESCRIPTION



357-7708

LANDSCAPE PLAN  
BID ALTERNATE 1

13 - 10

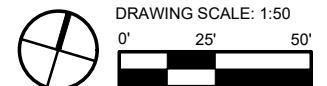


**LEGEND**

	PROPERTY BOUNDARY		RESEEDING, SEED MIX A
	MATCH LINE		RESEEDING, SEED MIX C
	FENCE (EXISTING)		RAIN GARDEN / SEED MIX B
	OVERHEAD ELECTRIC		COBBLE
	SWALE		GRAVEL
	RESEEDING LIMIT		RIP RAP (OUTFALL)
	PROPOSED TREE / SHRUB		CHECK DAM
	VEGETATION, EXISTING		VEGETATED BOULDER BANK PROTECTION
	VEGETATION, PRESERVED, PRIMARY		BOULDER BANK PROTECTION
	VEGETATION, PRESERVED, SECONDARY		

**LANDSCAPE KEYED NOTES**

- 1** PRESERVE AND PROTECT EXISTING VEGETATION TO REMAIN, TYP.; SEE LANDSCAPE PRESERVATION PLANS
- 2** RESEED AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, TYP.
- 3** TRAIL; SEE CIVIL PLANS
- 4** TRAIL JUNCTION AT ROAD: INSTALL REMOVABLE BOLLARD AND BOULDERS AS SHOWN TO PROHIBIT VEHICULAR ACCESS
- 5** TRAIL-RELATED RETAINING WALLS + DRAINAGE; SEE CIVIL PLANS FOR LAYOUT AND DETAILS, TYP.



Approved: # \_\_\_\_\_  
 Checked: CH \_\_\_\_\_  
 Designer: JRO \_\_\_\_\_  
 Project Management Initials: \_\_\_\_\_  
 Filename: X:\1193-SF-River-greenway\4-cadd\sheets\10-193-landscape.dwg



**LEGEND**

	PROPERTY BOUNDARY		RESEEDING, SEED MIX A
	MATCH LINE		RESEEDING, SEED MIX B
	FENCE (EXISTING)		RAIN GARDEN / SEED MIX B
	OVERHEAD ELECTRIC		COBBLE
	SWALE		GRAVEL
	RESEEDING LIMIT		RIP RAP (OUTFALL)
	PROPOSED TREE / SHRUB		CHECK DAM
	VEGETATION, EXISTING		VEGETATED BOULDER BANK PROTECTION
	VEGETATION, PRESERVED, PRIMARY		BOULDER BANK PROTECTION
	VEGETATION, PRESERVED, SECONDARY		

**LANDSCAPE KEYED NOTES**

- PRESERVE AND PROTECT EXISTING VEGETATION TO REMAIN, TYP., SEE LANDSCAPE PRESERVATION PLANS
- RESEED AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, TYP.
- VEGETATED BANK; ALTERNATE BOULDER SECTIONS WITH WILLOW CUTTING PLANTINGS PER CHART AT RIGHT AND DETAIL
- WATER HARVESTING SWALE: FINE GRADE SWALE, 12"-18" DEPTH MAX. CONNECT TO CULVERT OUTFALL RIP RAP. SPREAD 2" HARVESTED TOPSOIL WITHIN SWALE, LINE WITH GRAVEL, SEE DETAIL; CONFIRM EXTENTS IN FIELD WITH LANDSCAPE ARCHITECT
- POLE PLANTINGS; CONFIRM EXTENTS IN FIELD WITH LANDSCAPE ARCHITECT; SPACE ON TRIANGULATED GRID 10' OC, TYP.
- BANK STABILIZATION RIVER FEATURE, SEE CIVIL PLANS

**PLANT LIST**

SYMB.	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
	Populus angustifolia*	Narrowleaf Cottonwood	4	>10' Pole; 2"-6" Ø at base
	Salix sp.*	Willow cuttings	-	>8' Pole, 3 per pole
<b>POLES + WHIPS (VEGETATED BANK PROTECTION)</b>				
	Salix sp.*	Willow cuttings	90	>8' Pole, 3 per pole

\*provide alternate cottonwood / willow species as available with prior approval from Landscape Architect

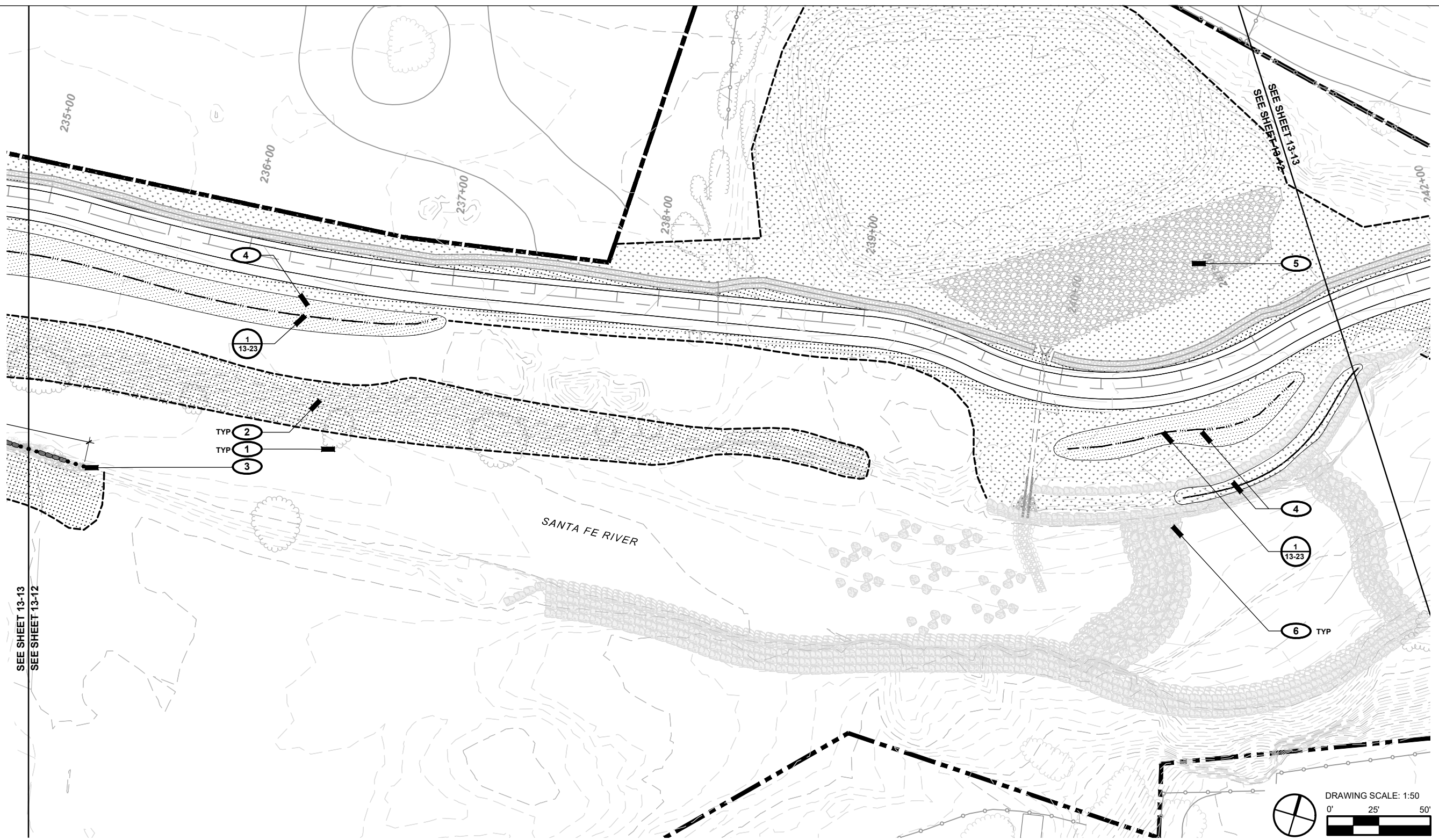
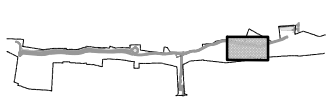
**VEGETATED BANK SEQUENCE CHART**

PLAN ID	VEGETATED SEGMENTS / LENGTH	BOULDER SEGMENTS / LENGTH	PLAN DIAGRAM (NTS)
A	6 / 10'	5 / ±14'	
B	6 / 10'	5 / ±14'	

Project Management Initials: Designer: JRO Checked: CH Approved: #  
 Filename: X:\1193 SF River Greenway\4-cad\sheet\13-11-landscape.dwg



I/R	DATE	DESCRIPTION

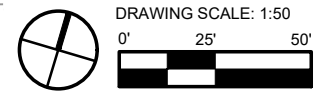


**LEGEND**

	PROPERTY BOUNDARY		RESEEDING, SEED MIX A
	MATCH LINE		RESEEDING, SEED MIX C
	FENCE (EXISTING)		RAIN GARDEN / SEED MIX B
	OVERHEAD ELECTRIC		COBBLE
	SWALE		GRAVEL
	RESEEDING LIMIT		RIP RAP (OUTFALL)
	PROPOSED TREE / SHRUB		CHECK DAM
	VEGETATION, EXISTING		VEGETATED BOULDER BANK PROTECTION
	VEGETATION, PRESERVED, PRIMARY		BOULDER BANK PROTECTION
	VEGETATION, PRESERVED, SECONDARY		

**LANDSCAPE KEYED NOTES**

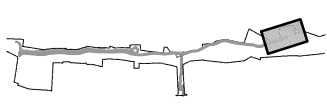
- 1** PRESERVE AND PROTECT EXISTING VEGETATION TO REMAIN, TYP., SEE LANDSCAPE PRESERVATION PLANS
- 2** RESEED AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, TYP.
- 3** VEGETATED BANK: ALTERNATE BOULDER SECTIONS WITH WILLOW CUTTING PLANTINGS PER DIAGRAM AND DETAIL, SEE SHEET 13-11
- 4** WATER HARVESTING SWALE: FINE GRADE SWALE, 12"-18" DEPTH MAX. CONNECT TO CULVERT OUTFALL RIP RAP. SPREAD 2" HARVESTED TOPSOIL WITHIN SWALE, LINE WITH GRAVEL. SEE DETAIL; CONFIRM EXTENTS IN FIELD WITH LANDSCAPE ARCHITECT
- 5** RAIN GARDEN: WATER HARVESTING DEPRESSION TO COLLECT AND INFILTRATE SURFACE RUNOFF; SEE CIVIL FOR INTAKE AND OVERFLOW; LINE WITH 8" DEPTH ANGULAR 4"-8" COBBLE
- 6** BANK STABILIZATION RIVER FEATURE. SEE CIVIL PLANS



Project Management Initials: Designer: JRO Checked: CH Approved: #  
 Filename: X:\1193 SF River Greenway\4-cadd\sheets\10-193-landscape.dwg



I/R	DATE	DESCRIPTION



357-7708

LANDSCAPE PLAN

13 - 13



**LEGEND**

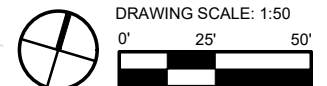
	PROPERTY BOUNDARY		RESEEDING, SEED MIX A
	MATCH LINE		RESEEDING, SEED MIX B
	FENCE (EXISTING)		RAIN GARDEN / SEED MIX B
	OVERHEAD ELECTRIC		COBBLE
	SWALE		GRAVEL
	RESEEDING LIMIT		RIP RAP (OUTFALL)
	PROPOSED TREE / SHRUB		CHECK DAM
	VEGETATION, EXISTING		VEGETATED BOULDER BANK PROTECTION
	VEGETATION, PRESERVED, PRIMARY		BOULDER BANK PROTECTION
	VEGETATION, PRESERVED, SECONDARY		

**LANDSCAPE KEYED NOTES**

- 1** PRESERVE AND PROTECT EXISTING SITE ELEMENTS AND VEGETATION TO REMAIN, TYP., SEE LANDSCAPE PRESERVATION PLANS
- 2** RESEED AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, TYP.
- 3** RAIN GARDEN: WATER HARVESTING DEPRESSION TO COLLECT AND INFILTRATE SURFACE RUNOFF. SEE CIVIL FOR INTAKE AND OVERFLOW; LINE WITH 8" DEPTH ANGULAR 4"-8" COBBLE
- 4** COBBLE SWALE, CONNECT TO CURB CUTS AT PARKING LOT; SEE CIVIL PLANS
- 5** POLE PLANTINGS; CONFIRM EXTENTS IN FIELD WITH LANDSCAPE ARCHITECT; SPACE ON TRIANGULATED GRID 10' OC, TYP.
- 6** WILLOW CUTTING PLANTINGS; CONFIRM FINAL LOCATION IN FIELD PRIOR TO PLANTING.
- 7** BANK STABILIZATION RIVER FEATURE, SEE CIVIL PLANS
- 8** INSTALL 3" GRAVEL MULCH OVER LANDSCAPE FABRIC, MATCH ADJACENT GRAVEL SIZE AND COLOR
- 9** TRAIL JUNCTION AT ROAD: INSTALL REMOVABLE BOLLARD AND BOULDERS AS SHOWN TO PROHIBIT VEHICULAR ACCESS

**PLANT LIST**

SYMB.	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
	Populus angustifolia*	Narrowleaf Cottonwood	9	>10' Pole; 2"-6" Ø at base
	Salix sp.*	Willow cuttings	6	>8' Pole, 3 per hole

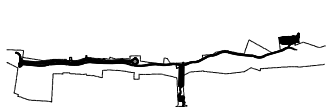


Project Management Initials: Designer: JRO Checked: CH Approved: #  
 Filename: X:\1193 SF River Greenway\4-cadd\sheet\10-193-landscape.dwg





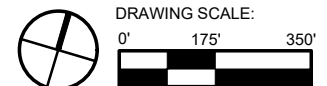
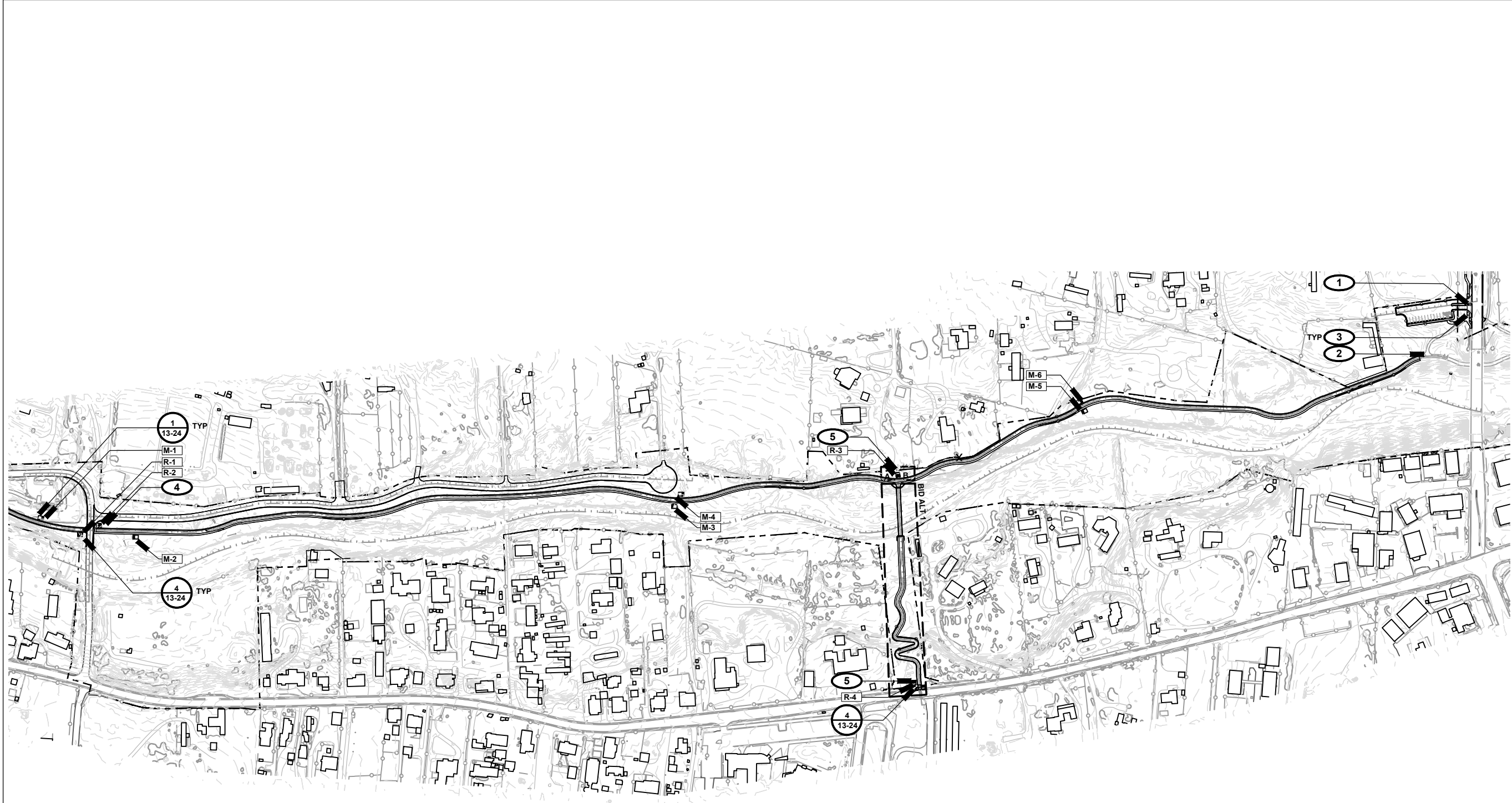
I/R	DATE	DESCRIPTION



357-7708

SIGNAGE PLAN

13-14



**WAYFINDING LEGEND**

- PROPERTY BOUNDARY
- PROPOSED TRAIL
- MARKER: NHT SIGN
- ROAD DESIGNATION SIGN

**SIGNAGE GENERAL NOTES**

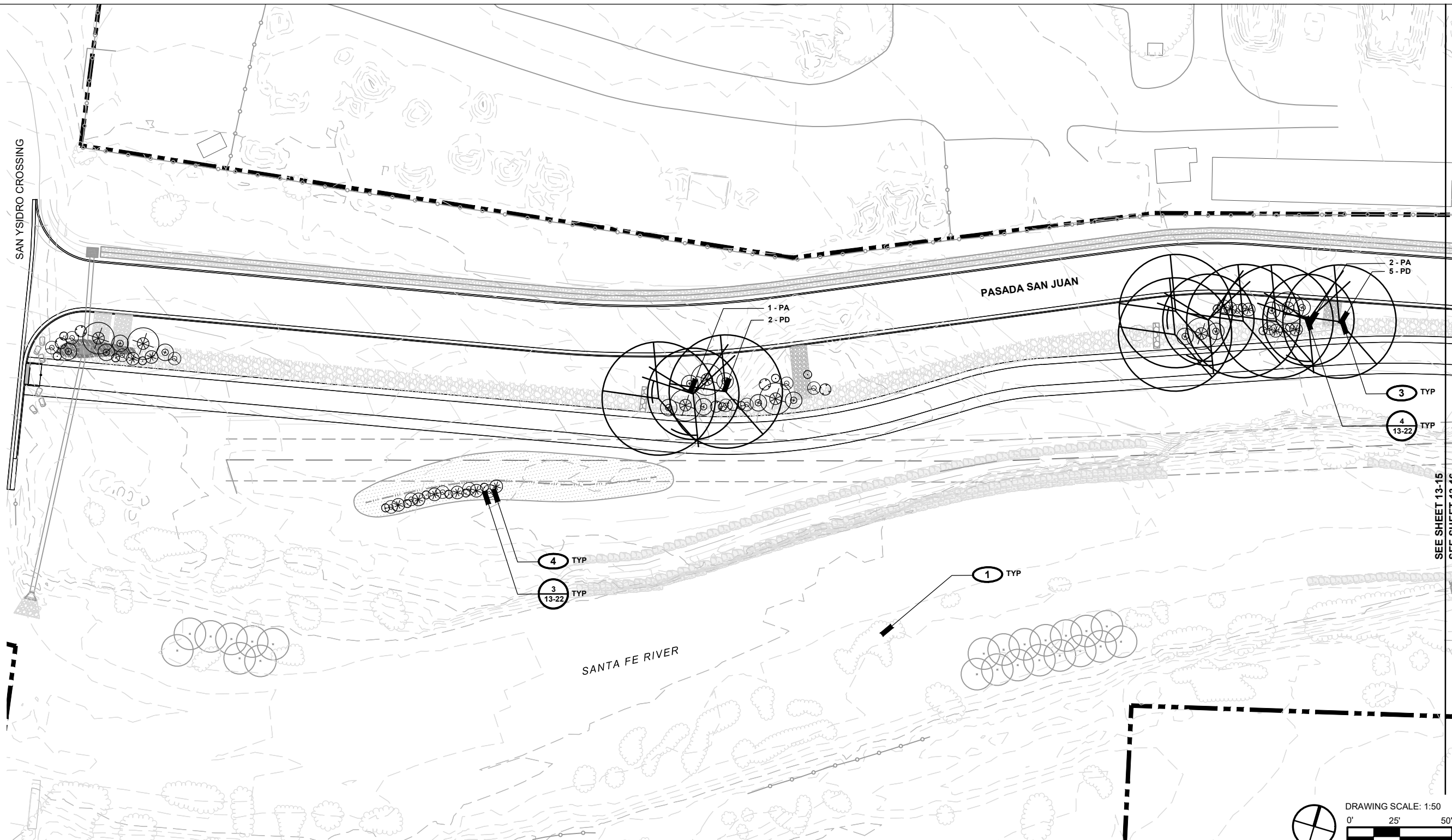
1. ALL SIGN POSTS TO BE LOCATED PARALLEL TO TRAIL TREAD AT A MINIMUM OF 2' CLEAR FROM EDGE OF DEFINED TRAIL TREAD, UNLESS OTHERWISE NOTED.
2. COORDINATE FINAL LOCATION OF WAYFINDING SIGNAGE WITH CONSTRUCTED TRAIL FEATURES, EXISTING VEGETATION, AND PROPOSED SFC SIGNAGE.

**SIGNAGE KEYED NOTES**

- 1 NEW SILER ROAD TRAILHEAD MONUMENT SIGN WITHIN ROW, NIC.
- 2 PRESERVE AND PROTECT EXISTING 'EL CAMINO REAL HIKING TRAIL' SIGN, TYP.
- 3 SEE CIVIL DRAWINGS FOR REGULATORY SIGNS, TYP.
- 4 DIRECTIONAL SIGN / MARKER; CONFIRM FINAL LOCATION IN FIELD WITH LANDSCAPE ARCHITECT.
- 5 DIRECTIONAL SIGN MARKER: BID ALTERNATE 1; CONFIRM LOCATION IN FIELD WITH LANDSCAPE ARCHITECT.

**SIGNAGE SCHEDULE**

SIGN FACE	COMMENT	STATION	POST TYPE	POST HEIGHT	SIGN DIM.
M-1	NHT SIGN, SEE DETAIL 2/13-24	198+40	WOOD	6'	12"x12"; 5.25"x3.75"
M-2	NHT SIGN, SEE DETAIL 2/13-24	201+60	WOOD	6'	12"x12"; 5.25"x3.75"
M-3	NHT SIGN, SEE DETAIL 2/13-24	219+50	WOOD	6'	12"x12"; 5.25"x3.75"
M-4	NHT SIGN, SEE DETAIL 2/13-24	219+60	WOOD	6'	12"x12"; 5.25"x3.75"
M-5	NHT SIGN, SEE DETAIL 2/13-24	233+50	WOOD	6'	12"x12"; 5.25"x3.75"
M-6	NHT SIGN, SEE DETAIL 2/13-24	233+60	WOOD	6'	12"x12"; 5.25"x3.75"
R-1	SEE DETAIL 3/13-24	199+80	WOOD	6'	3"x40"
R-2	SEE DETAIL 3/13-24	200+40	WOOD	6'	3"x40"
R-3-A	SEE DETAIL 3/13-24	227+00	WOOD	4'	3"x36"
R-3-B	SEE DETAIL 3/13-24	227+00	WOOD	4'	3"x36"
R-4	SEE DETAIL 3/13-24	308+20	WOOD	6'	3"x24"; 18"x18"



**LEGEND**

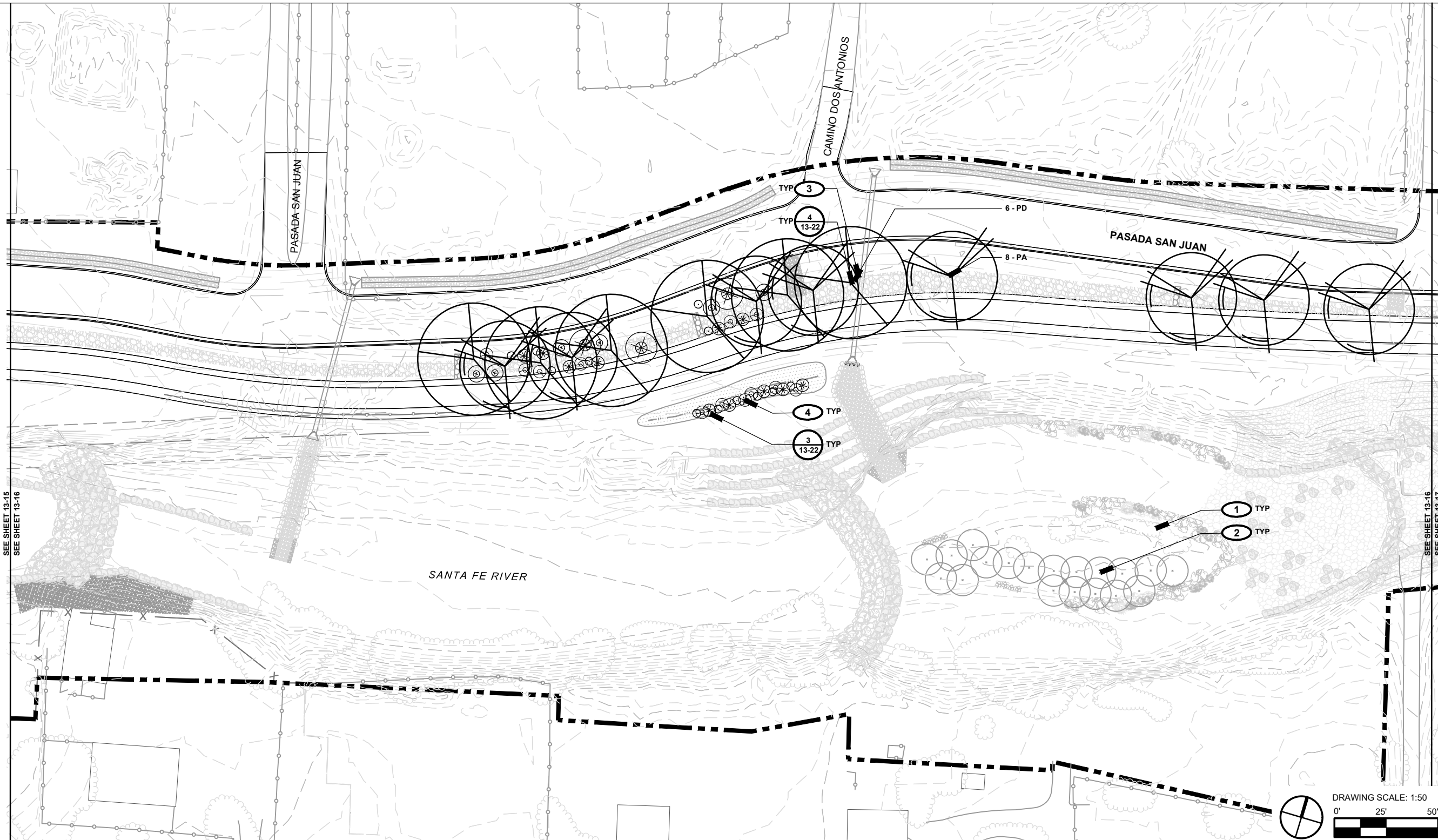
	PROPERTY BOUNDARY		WATER QUALITY BASIN
	MATCH LINE		COBBLE
	FENCE (EXISTING)		CHECK DAM
	OVERHEAD ELECTRIC		WILLOW WATTLE / BOULDER BANK PROTECTION
	PROPOSED TREE / SHRUB		BOULDER BANK PROTECTION
	VEGETATION, EXISTING		

- PLANTING KEYED NOTES**
- 1** PRESERVE AND PROTECT EXISTING VEGETATION TO REMAIN, TYP., SEE 13-1 LANDSCAPE PRESERVATION PLAN
  - 2** RIVER RESTORATION / POLE PLANTING, SEE LANDSCAPE PLANS
  - 3** TREE PLANTING; COORDINATE PLANTING WITH FINISH GRADING AND SURFACING; CONFIRM FINAL LOCATION OF TREE WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION
  - 4** SHRUB PLANTING; COORDINATE PLANTING WITH FINISH GRADING AND ADJACENT FINISH SURFACING; CONFIRM FINAL LOCATION OF SHRUB WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION

**PLANT LIST**

SYMB.	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
<b>TREES</b>				
PA	Populus angustifolia	Narrowleaf Cottonwood	3	15 gal.
PD	Populus deltoides 'wisizeni'	Rio Grande Cottonwood	7	15 gal.
SS	Salix sp.	Willow	-	15 gal.
<b>SHRUBS</b>				
	Artemesia filifolia	Sand Sage	16	1 gal.
	Atriplex canescens	Fourwing Saltbush	2	1 gal.
	Chamaebatiaria millefolium	Fernbush	17	1 gal.
	Chrysothamnus nauseosus	Chamisa	-	1 gal.
	Fallugia paradoxa.	Apache Plume	12	1 gal.
	Rhus trilobata	Three-Leaf Sumac	17	1 gal.
	Salix exigua	Coyote Willow	-	1 gal.
	Shepherdia argentea	Silver Buffaloberry	7	1 gal.

Project Management Initials: Designer: JRO Checked: CH Approved: #  
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### LEGEND

	PROPERTY BOUNDARY		WATER QUALITY BASIN
	MATCH LINE		COBBLE
	FENCE (EXISTING)		CHECK DAM
	OVERHEAD ELECTRIC		WILLOW WATTLE / BOULDER BANK PROTECTION
	PROPOSED TREE / SHRUB		BOULDER BANK PROTECTION
	VEGETATION, EXISTING		

### PLANTING KEYED NOTES

- 1** PRESERVE AND PROTECT EXISTING VEGETATION TO REMAIN, TYP., SEE 13-1 LANDSCAPE PRESERVATION
- 2** RIVER RESTORATION / POLE PLANTING, SEE LANDSCAPE PLANS
- 3** TREE PLANTING; COORDINATE PLANTING WITH FINISH GRADING AND SURFACING; CONFIRM FINAL LOCATION OF TREE WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION
- 4** SHRUB PLANTING; COORDINATE PLANTING WITH FINISH GRADING AND ADJACENT FINISH SURFACING; CONFIRM FINAL LOCATION OF SHRUB WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION

### PLANT LIST

SYMB.	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
<b>TREES</b>				
PA	Populus angustifolia	Narrowleaf Cottonwood	8	15 gal.
PD	Populus deltoides 'wislizeni'	Rio Grande Cottonwood	6	15 gal.
SS	Salix sp.	Willow	-	15 gal.
<b>SHRUBS</b>				
	Artemesia filifolia	Sand Sage	9	1 gal.
	Atriplex canescens	Fourwing Saltbush	-	1 gal.
	Chamaebatiaria millefolium	Fernbush	11	1 gal.
	Chrysothamnus nauseosus	Chamisa	-	1 gal.
	Fallugia paradoxa.	Apache Plume	12	1 gal.
	Rhus trilobata	Three-Leaf Sumac	6	1 gal.
	Salix exigua	Coyote Willow	-	1 gal.
	Shepherdia argentea	Silver Buffaloberry	3	1 gal.



**PROJECT**  
**SANTA FE RIVER GREENWAY PROJECT (SECTION B)**

**CLIENT**  
**SANTA FE COUNTY**  
 100 Catron St.  
 Santa Fe, New Mexico 87501  
 T 505.986.6200  
 www.santafecountynm.gov

**ENGINEERING CONSULTANT**  
**AECOM**  
 150 Washington Avenue, Suite 201  
 Santa Fe, New Mexico 87501  
 T 505.855.7500  
 www.aecom.com

**SUBCONSULTANTS**  
**GEOTECHNICAL**  
**TERRACON**  
 T 505.797.4287  
**LANDSCAPE ARCHITECTURE**  
**DESIGN OFFICE**  
 T 505.983.1415  
**TOPOGRAPHIC MAPPING**  
**COOPER AERIAL SURVEYS CO.**  
 T 602.678.5111  
**SUBSURFACE UTILITY ENGINEERING**  
**COLLIERS ENGINEERING & DESIGN**  
 T 505.228.3154

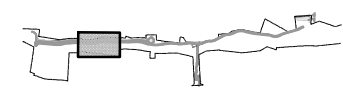
**REGISTRATION**



**ISSUE/REVISION**

I/R	DATE	DESCRIPTION

**KEY PLAN**



**PROJECT NUMBER**  
 357-7708  
**SHEET TITLE**  
 PLANTING PLAN

**SHEET NUMBER**  
 13 - 16



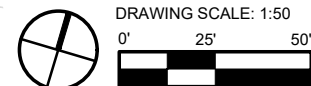
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	MATCH LINE		COBBLE
	FENCE (EXISTING)		CHECK DAM
	OVERHEAD ELECTRIC		WILLOW WATTLE / BOULDER BANK PROTECTION
	PROPOSED TREE / SHRUB		BOULDER BANK PROTECTION
	VEGETATION, EXISTING		

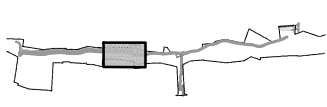
- PLANTING KEYED NOTES**
- 1 PRESERVE AND PROTECT EXISTING VEGETATION TO REMAIN, TYP.; SEE 13-2 LANDSCAPE PRESERVATION PLAN
  - 2 RIVER RESTORATION / POLE PLANTING, SEE LANDSCAPE PLANS
  - 3 TREE PLANTING; COORDINATE PLANTING WITH FINISH GRADING AND SURFACING; CONFIRM FINAL LOCATION OF TREE WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION
  - 4 SHRUB PLANTING; COORDINATE PLANTING WITH FINISH GRADING AND ADJACENT FINISH SURFACING; CONFIRM FINAL LOCATION OF SHRUB WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION

**PLANT LIST**

SYMB.	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
<b>TREES</b>				
PA	Populus angustifolia	Narrowleaf Cottonwood	12	15 gal.
PD	Populus deltoides 'wisizeni'	Rio Grande Cottonwood	7	15 gal.
SS	Salix sp.	Willow	-	15 gal.
<b>SHRUBS</b>				
	Artemesia filifolia	Sand Sage	14	1 gal.
	Atriplex canescens	Fourwing Saltbush	-	1 gal.
	Chamaebatiaria millefolium	Fernbush	13	1 gal.
	Chrysothamnus nauseosus	Chamisa	-	1 gal.
	Fallugia paradoxa.	Apache Plume	13	1 gal.
	Rhus trilobata	Three-Leaf Sumac	6	1 gal.
	Salix exigua	Coyote Willow	-	1 gal.
	Shepherdia argentea	Silver Buffaloberry	3	1 gal.



I/R	DATE	DESCRIPTION



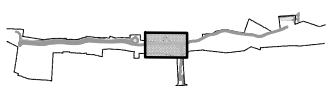
357-7708

PLANTING PLAN

13 - 17



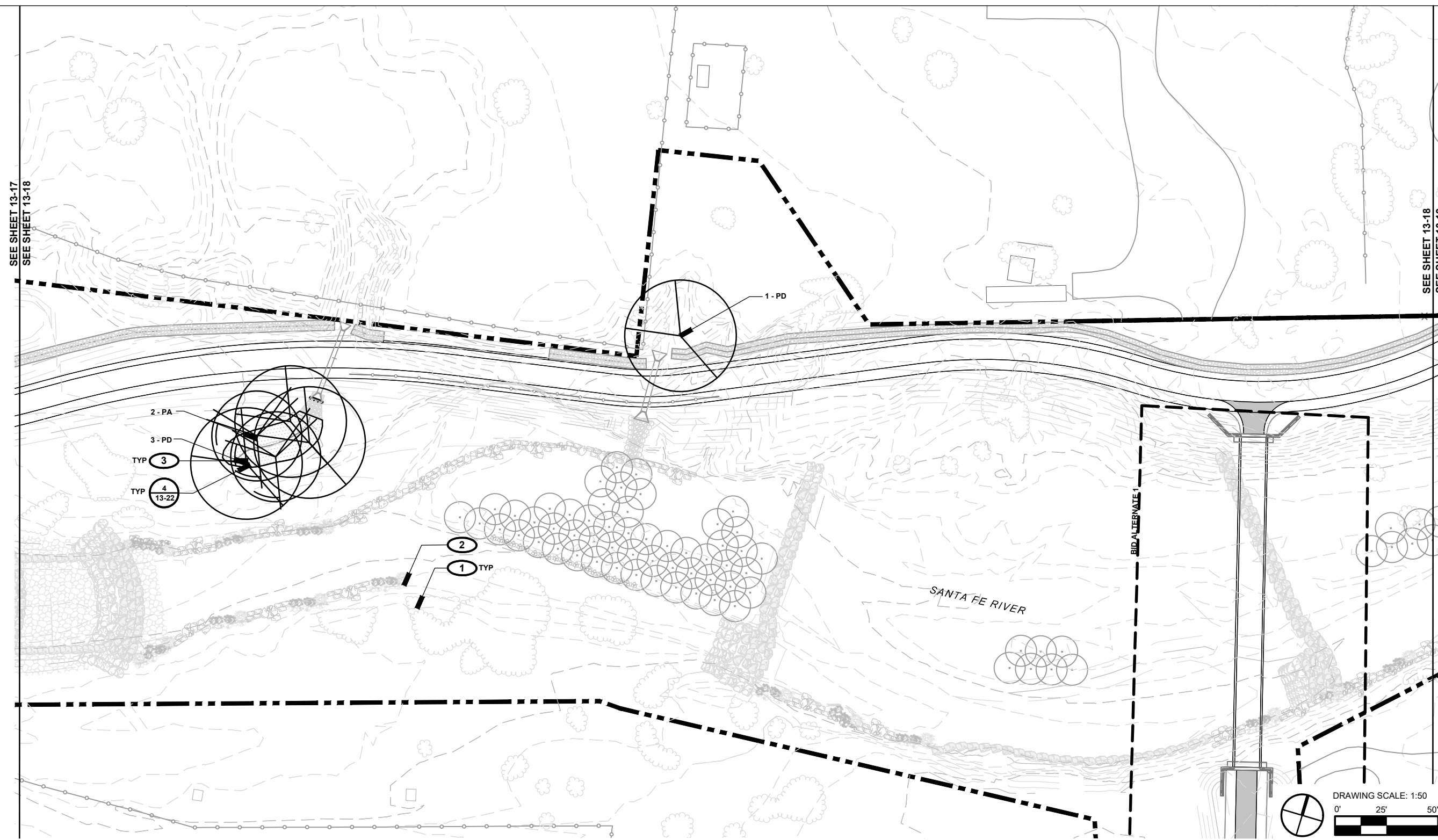
I/R	DATE	DESCRIPTION



357-7708

PLANTING PLAN

13 - 18



**LEGEND**

	PROPERTY BOUNDARY		WATER QUALITY BASIN
	MATCH LINE		COBBLE
	FENCE (EXISTING)		CHECK DAM
	OVERHEAD ELECTRIC		WILLOW WATTLE / BOULDER BANK PROTECTION
	PROPOSED TREE / SHRUB		BOULDER BANK PROTECTION
	VEGETATION, EXISTING		

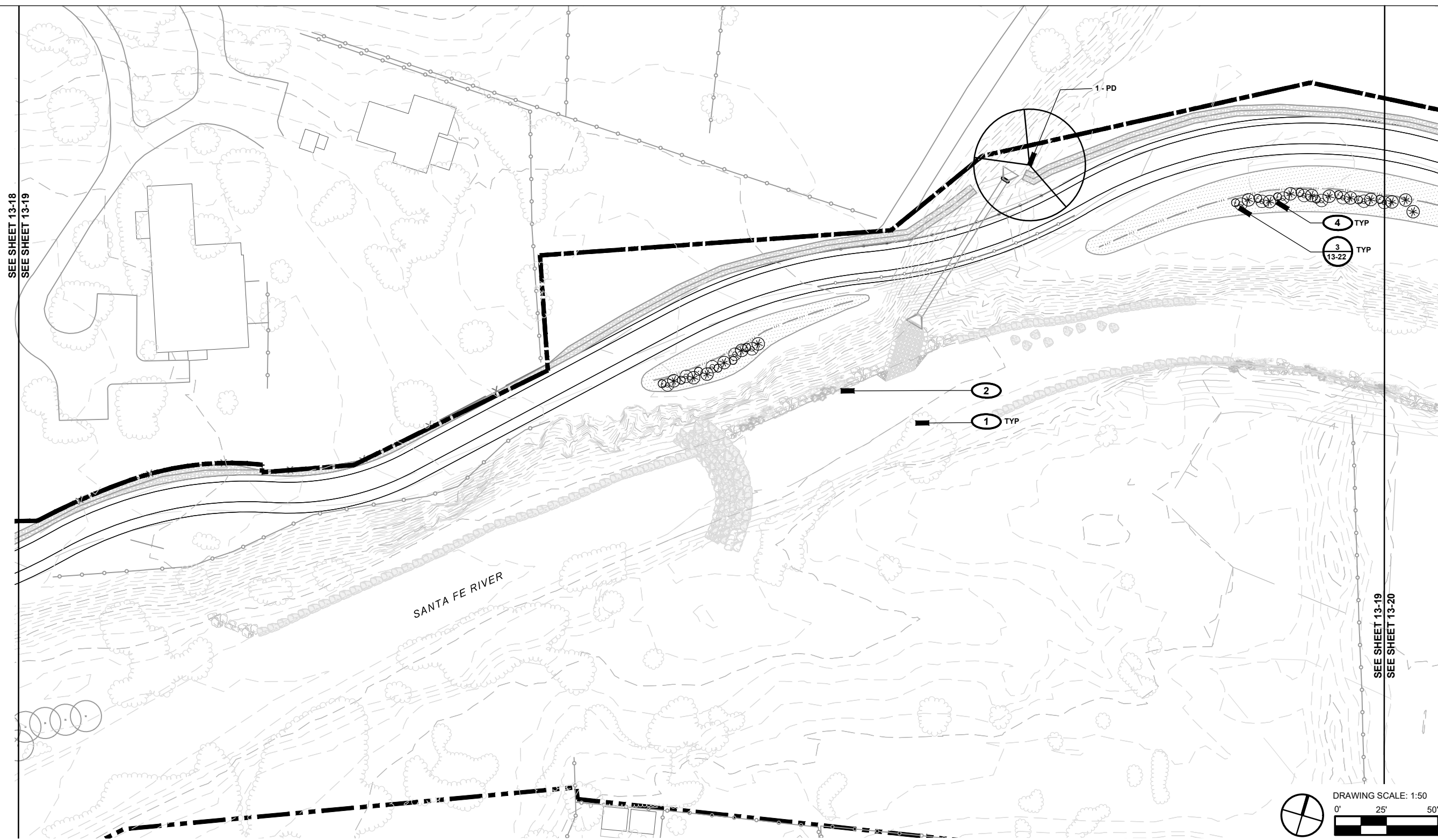
- PLANTING KEYED NOTES**
- 1** PRESERVE AND PROTECT EXISTING VEGETATION TO REMAIN, TYP.; SEE 13-3 LANDSCAPE PRESERVATION
  - 2** RIVER RESTORATION / POLE PLANTING, SEE LANDSCAPE PLANS
  - 3** TREE PLANTING; COORDINATE PLANTING WITH FINISH GRADING AND SURFACING; CONFIRM FINAL LOCATION OF TREE WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION

**PLANT LIST**

SYMB.	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
<b>TREES</b>				
PA	Populus angustifolia	Narrowleaf Cottonwood	2	15 gal.
PD	Populus deltoides 'wislizeni'	Rio Grande Cottonwood	4	15 gal.
SS	Salix sp.	Willow	-	15 gal.
<b>SHRUBS</b>				
	Artemisia filifolia	Sand Sage	-	1 gal.
	Atriplex canescens	Fourwing Saltbush	-	1 gal.
	Chamaebatiaria millefolium	Fernbush	-	1 gal.
	Chrysothamnus nauseosus	Chamisa	-	1 gal.
	Fallugia paradoxa.	Apache Plume	-	1 gal.
	Rhus trilobata	Three-Leaf Sumac	-	1 gal.
	Salix exigua	Coyote Willow	-	1 gal.
	Shepherdia argentea	Silver Buffaloberry	-	1 gal.

Project Management Initials: Designer: JRO Checked: CH Approved: #

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**LEGEND**

	PROPERTY BOUNDARY		WATER QUALITY BASIN
	MATCH LINE		COBBLE
	FENCE (EXISTING)		CHECK DAM
	OVERHEAD ELECTRIC		WILLOW WATTLE / BOULDER BANK PROTECTION
	PROPOSED TREE / SHRUB		BOULDER BANK PROTECTION
	VEGETATION, EXISTING		

- PLANTING KEYED NOTES**
- 1 PRESERVE AND PROTECT EXISTING VEGETATION TO REMAIN, TYP., SEE 13-3 LANDSCAPE PRESERVATION.
  - 2 RIVER RESTORATION / POLE PLANTING, SEE LANDSCAPE PLANS.
  - 3 TREE PLANTING; COORDINATE PLANTING WITH FINISH GRADING AND SURFACING; CONFIRM FINAL LOCATION OF TREE WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION
  - 4 SHRUB PLANTING; COORDINATE PLANTING WITH FINISH GRADING AND ADJACENT FINISH SURFACING; CONFIRM FINAL LOCATION OF SHRUB WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION

**PLANT LIST**

SYMB.	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
<b>TREES</b>				
PA	Populus angustifolia	Narrowleaf Cottonwood	-	15 gal.
PD	Populus deltoides 'wislizeni'	Rio Grande Cottonwood	1	15 gal.
SS	Salix sp.	Willow	-	15 gal.
<b>SHRUBS</b>				
	Artemesia filifolia	Sand Sage	12	1 gal.
	Atriplex canescens	Fourwing Saltbush	-	1 gal.
	Chamaebatiaria millefolium	Fernbush	13	1 gal.
	Chrysothamnus nauseosus	Chamisa	-	1 gal.
	Fallugia paradoxa.	Apache Plume	13	1 gal.
	Rhus trilobata	Three-Leaf Sumac	-	1 gal.
	Salix exigua	Coyote Willow	-	1 gal.
	Shepherdia argentea	Silver Buffalobery	-	1 gal.

**AECOM**

PROJECT  
**SANTA FE RIVER GREENWAY PROJECT (SECTION B)**

CLIENT  
**SANTA FE COUNTY**  
 100 Catron St.  
 Santa Fe, New Mexico 87501  
 T 505.986.6200  
 www.santafecountynm.gov

ENGINEERING CONSULTANT  
**AECOM**  
 150 Washington Avenue, Suite 201  
 Santa Fe, New Mexico 87501  
 T 505.855.7500  
 www.aecom.com

SUBCONSULTANTS  
 GEOTECHNICAL  
**TERRACON**  
 T 505.797.4287

LANDSCAPE ARCHITECTURE  
**DESIGN OFFICE**  
 T 505.983.1415

TOPOGRAPHIC MAPPING  
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 T 602.678.5111

SUBSURFACE UTILITY ENGINEERING  
**COLLIERS ENGINEERING & DESIGN**  
 T 505.228.3154

REGISTRATION

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER  
**357-7708**

SHEET TITLE  
**PLANTING PLAN**



**LEGEND**

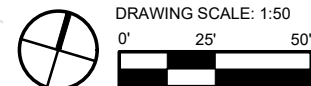
	PROPERTY BOUNDARY		WATER QUALITY BASIN
	MATCH LINE		COBBLE
	FENCE (EXISTING)		CHECK DAM
	OVERHEAD ELECTRIC		WILLOW WATTLE / BOULDER BANK PROTECTION
	PROPOSED TREE / SHRUB		BOULDER BANK PROTECTION
	VEGETATION, EXISTING		

**PLANTING KEYED NOTES**

- 1** PRESERVE AND PROTECT EXISTING VEGETATION TO REMAIN, TYP.; SEE 13-4 LANDSCAPE PRESERVATION PLAN
- 2** RIVER RESTORATION / POLE PLANTING, SEE LANDSCAPE PLANS
- 3** TREE PLANTING; COORDINATE PLANTING WITH FINISH GRADING AND SURFACING; CONFIRM FINAL LOCATION OF TREE WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION
- 4** SHRUB PLANTING; COORDINATE PLANTING WITH FINISH GRADING AND ADJACENT FINISH SURFACING; CONFIRM FINAL LOCATION OF SHRUB WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION

**PLANT LIST**

SYMB.	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
<b>TREES</b>				
PA	Populus angustifolia	Narrowleaf Cottonwood	6	15 gal.
PD	Populus deltoides 'wislizeni'	Rio Grande Cottonwood	8	15 gal.
SS	Salix sp.	Willow	-	15 gal.
<b>SHRUBS</b>				
	Artemesia filifolia	Sand Sage	7	1 gal.
	Atriplex canescens	Fourwing Saltbush	-	1 gal.
	Chamaebatiaria millefolium	Fernbush	7	1 gal.
	Chrysothamnus nauseosus	Chamisa	-	1 gal.
	Fallugia paradoxa.	Apache Plume	13	1 gal.
	Rhus trilobata	Three-Leaf Sumac	-	1 gal.
	Salix exigua	Coyote Willow	-	1 gal.
	Shepherdia argentea	Silver Buffaloberry	-	1 gal.



**PROJECT**  
**SANTA FE RIVER GREENWAY PROJECT (SECTION B)**

**CLIENT**  
**SANTA FE COUNTY**  
 100 Catron St.  
 Santa Fe, New Mexico 87501  
 T 505.986.6200  
 www.santafecountynm.gov

**ENGINEERING CONSULTANT**  
**AECOM**  
 150 Washington Avenue, Suite 201  
 Santa Fe, New Mexico 87501  
 T 505.855.7500  
 www.aecom.com

**SUBCONSULTANTS**  
**GEOTECHNICAL**  
**TERRACON**  
 T 505.797.4287  
**LANDSCAPE ARCHITECTURE**  
**DESIGN OFFICE**  
 T 505.983.1415  
**TOPOGRAPHIC MAPPING**  
**COOPER AERIAL SURVEYS CO.**  
 T 602.678.5111  
**SUBSURFACE UTILITY ENGINEERING**  
**COLLIERS ENGINEERING & DESIGN**  
 T 505.228.3154

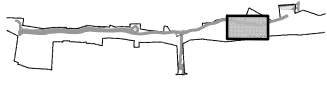
**REGISTRATION**



**ISSUE/REVISION**

I/R	DATE	DESCRIPTION

**KEY PLAN**



**PROJECT NUMBER**

357-7708

**SHEET TITLE**

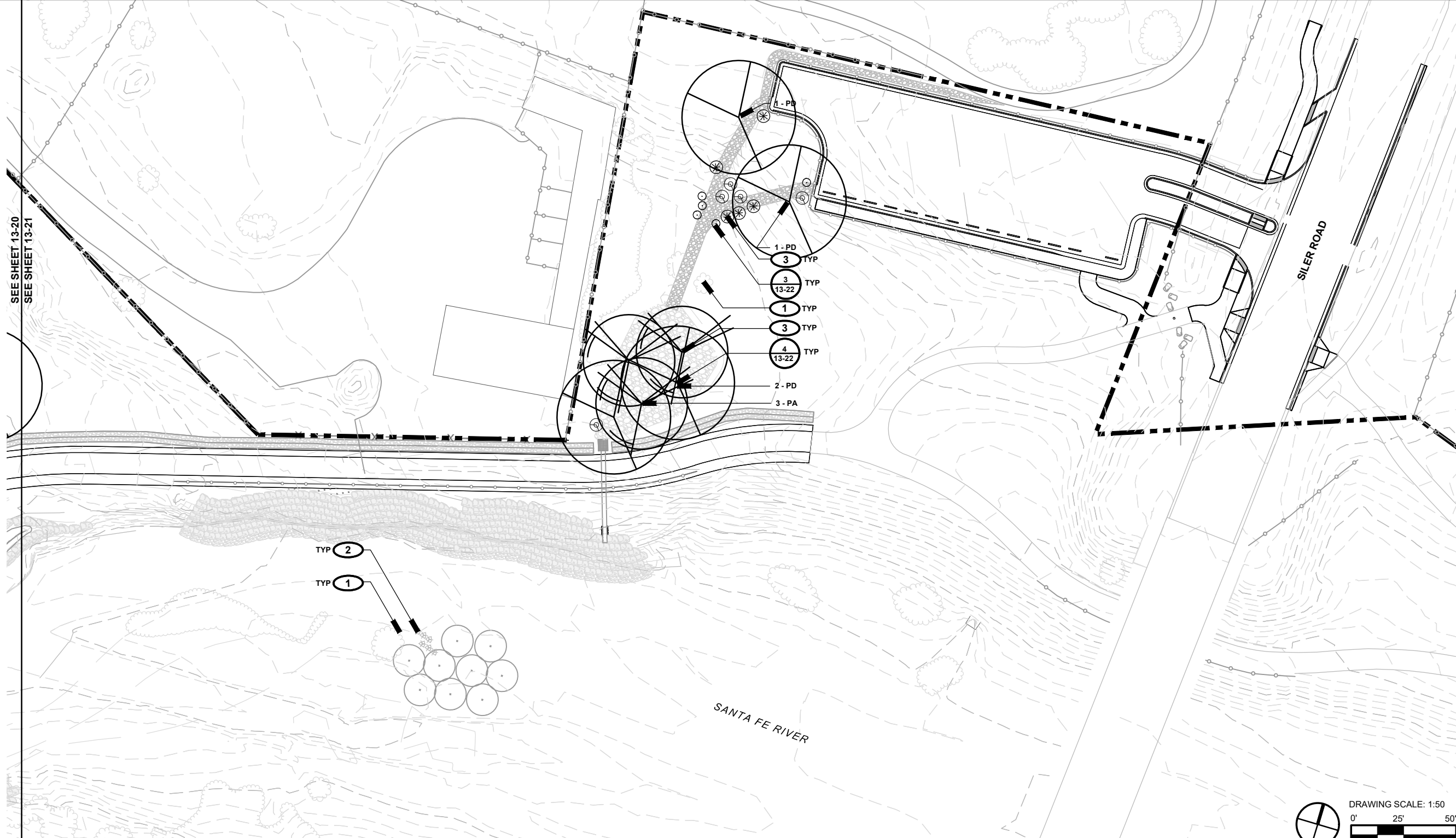
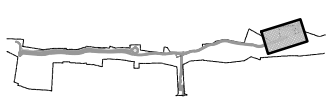
PLANTING PLAN

**SHEET NUMBER**

13 - 20



I/R	DATE	DESCRIPTION



**LEGEND**

	PROPERTY BOUNDARY		WATER QUALITY BASIN
	MATCH LINE		COBBLE
	FENCE (EXISTING)		CHECK DAM
	OVERHEAD ELECTRIC		WILLOW WATTLE / BOULDER BANK PROTECTION
	PROPOSED TREE / SHRUB		BOULDER BANK PROTECTION
	VEGETATION, EXISTING		

- PLANTING KEYED NOTES**
- 1** PRESERVE AND PROTECT EXISTING VEGETATION TO REMAIN, TYP.; SEE 13-4 LANDSCAPE PRESERVATION
  - 2** RIVER RESTORATION / POLE PLANTING. SEE LANDSCAPE PLANS
  - 3** TREE PLANTING; COORDINATE PLANTING WITH FINISH GRADING AND SURFACING; CONFIRM FINAL LOCATION OF TREE WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION
  - 4** SHRUB PLANTING; COORDINATE PLANTING WITH FINISH GRADING AND ADJACENT FINISH SURFACING; CONFIRM FINAL LOCATION OF SHRUB WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION

**PLANT LIST**

SYMB.	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
<b>TREES</b>				
PA	Populus angustifolia	Narrowleaf Cottonwood	3	15 gal.
PD	Populus deltoides 'wislizeni'	Rio Grande Cottonwood	4	15 gal.
SS	Salix sp.	Willow	-	15 gal.
<b>SHRUBS</b>				
	Artemisia filifolia	Sand Sage	5	1 gal.
	Atriplex canescens	Fourwing Saltbush	-	1 gal.
	Chamaebatiaria millefolium	Fernbush	5	1 gal.
	Chrysothamnus nauseosus	Chamisa	-	1 gal.
	Fallugia paradoxa.	Apache Plume	5	1 gal.
	Rhus trilobata	Three-Leaf Sumac	-	1 gal.
	Salix exigua	Coyote Willow	-	1 gal.
	Shepherdia argentea	Silver Buffaloberry	-	1 gal.





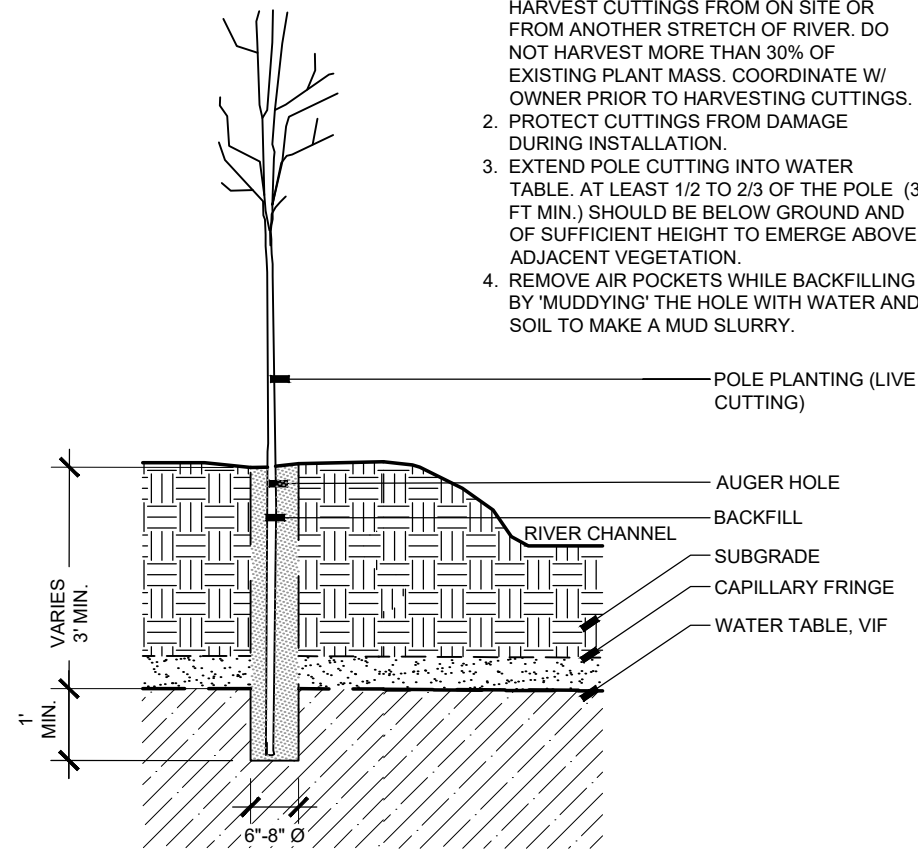
I/R	DATE	DESCRIPTION

357-7708

PLANTING DETAILS

13-22

- NOTE:
1. POLE PLANTING CUTTINGS MUST BE INSTALLED DURING THE DORMANT SEASON (DECEMBER TO MID-MARCH); AS POSSIBLE, HARVEST CUTTINGS FROM ON SITE OR FROM ANOTHER STRETCH OF RIVER. DO NOT HARVEST MORE THAN 30% OF EXISTING PLANT MASS. COORDINATE W/ OWNER PRIOR TO HARVESTING CUTTINGS.
  2. PROTECT CUTTINGS FROM DAMAGE DURING INSTALLATION.
  3. EXTEND POLE CUTTING INTO WATER TABLE. AT LEAST 1/2 TO 2/3 OF THE POLE (3 FT MIN.) SHOULD BE BELOW GROUND AND OF SUFFICIENT HEIGHT TO EMERGE ABOVE ADJACENT VEGETATION.
  4. REMOVE AIR POCKETS WHILE BACKFILLING BY 'MUDDYING' THE HOLE WITH WATER AND SOIL TO MAKE A MUD SLURRY.

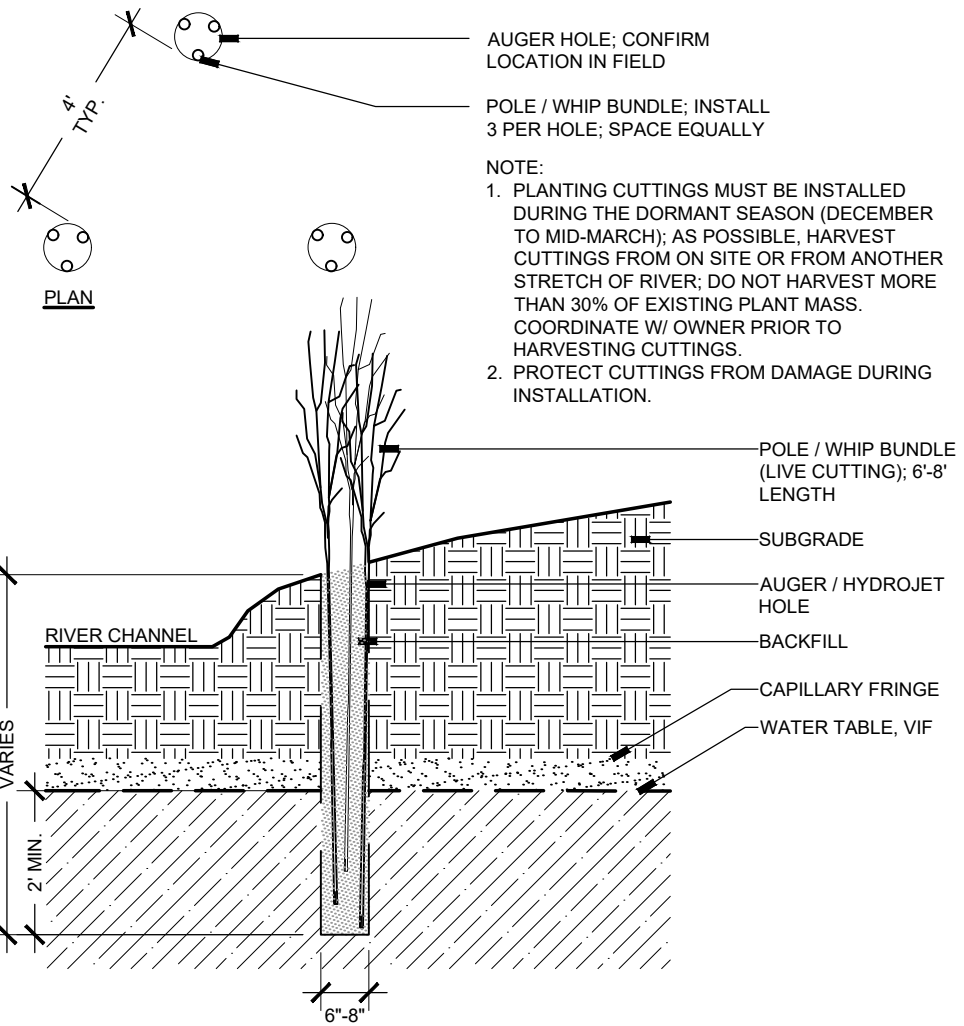


**1 POLE PLANTING**

SCALE: 3/8"=1'-0"

SECTION

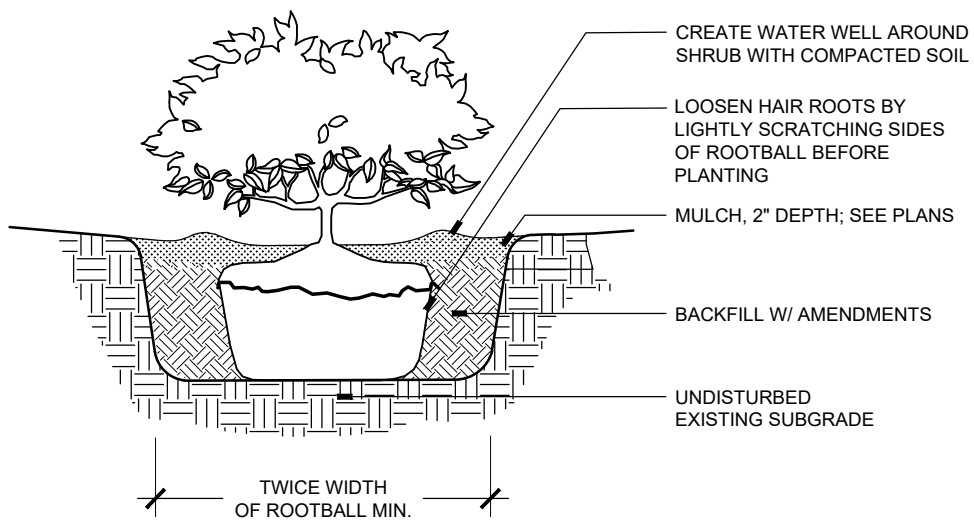
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**2 WILLOW WHIP PLANTING**

SCALE: 3/8"=1'-0"

SECTION

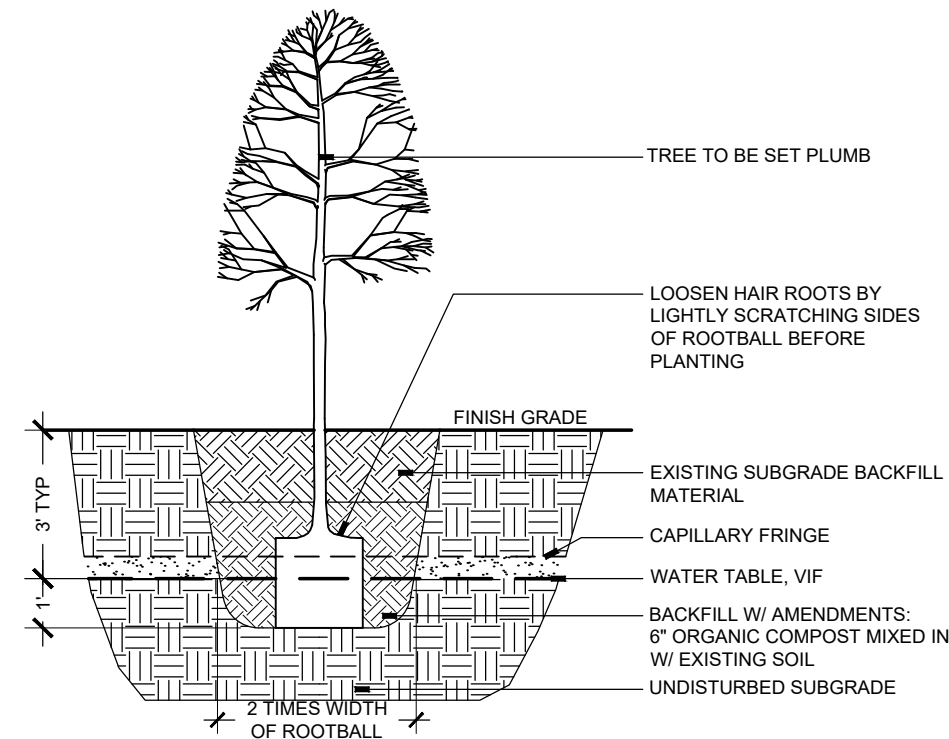


**3 SHRUB PLANTING**

SCALE: 3/4"=1'-0"

SECTION

SECTION



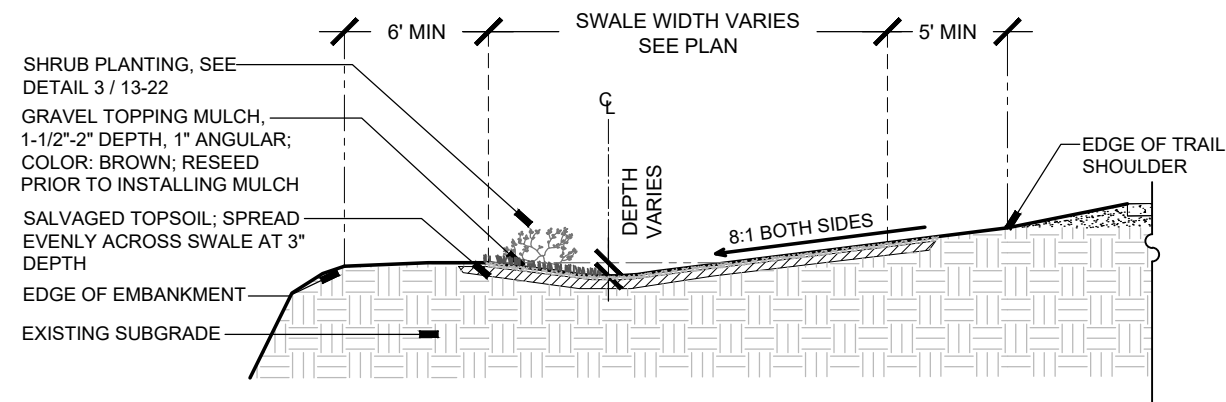
**4 TREE PLANTING**

SCALE: 3/8"=1'-0"

SECTION



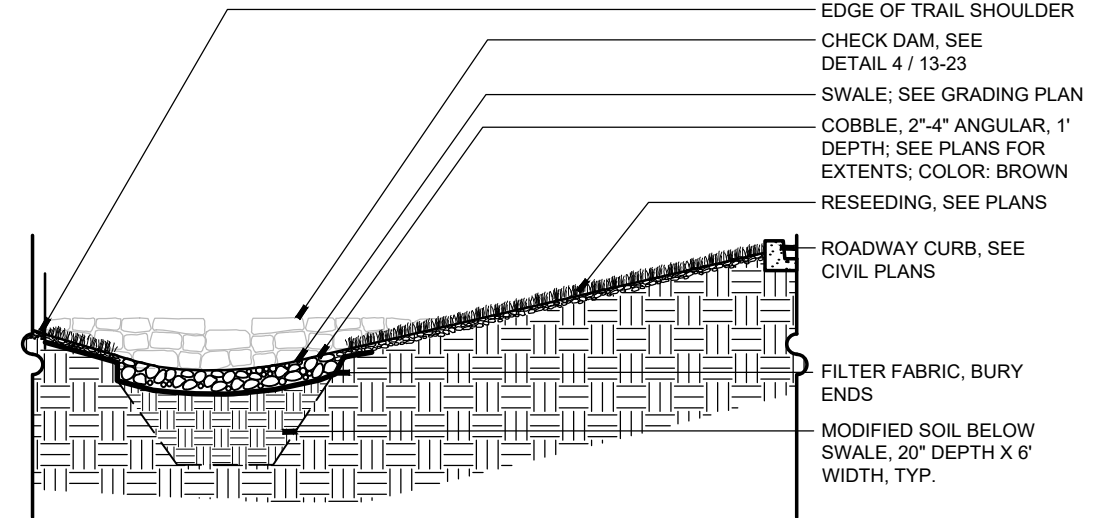
I/R	DATE	DESCRIPTION



**1 LOW SWALE**

SCALE: 1/8"=1'-0"

SECTION



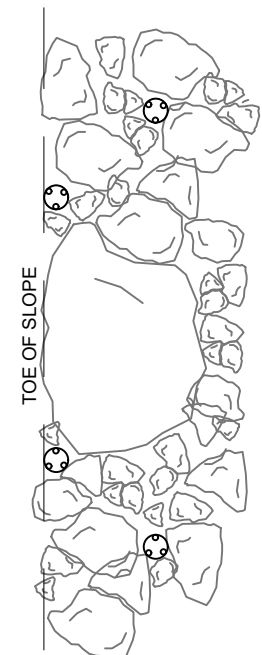
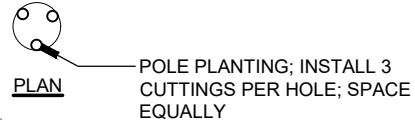
**3 BIOSWALE**

SCALE: 3/8"=1'-0"

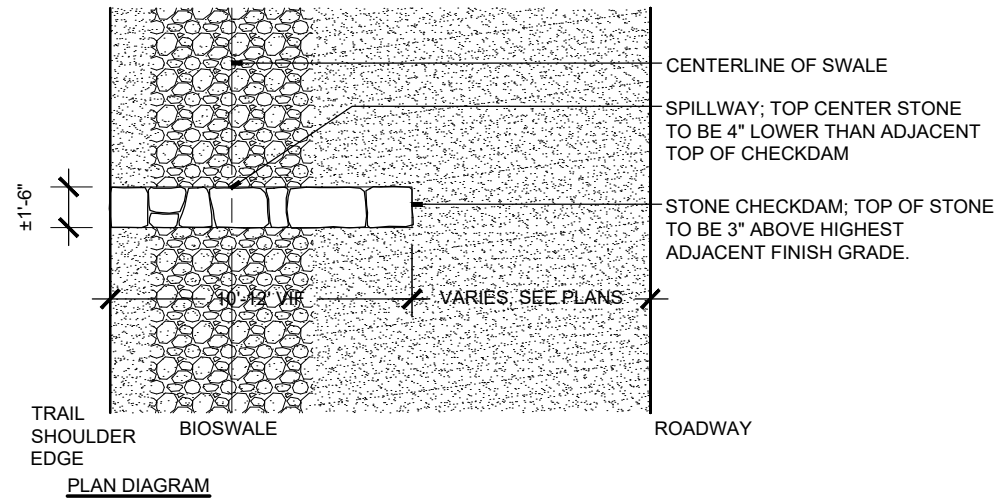
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NOTE:

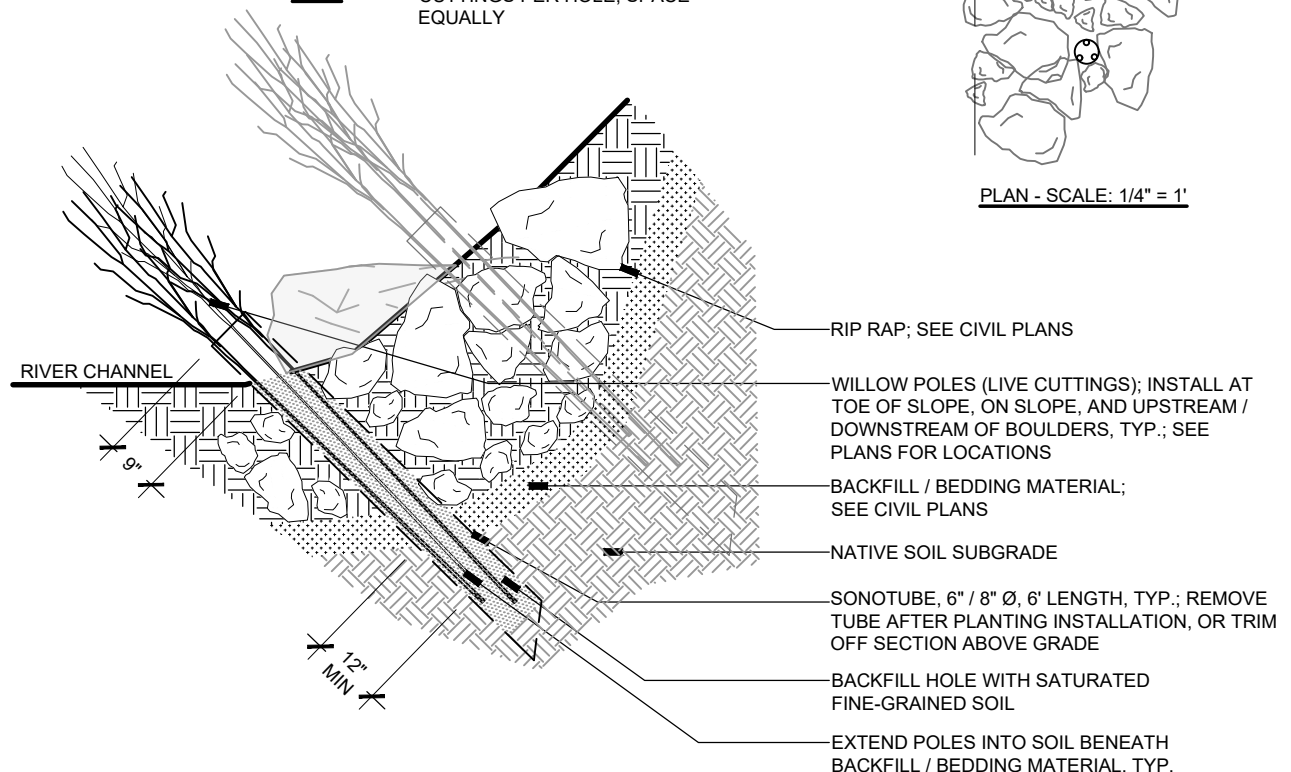
- POLE PLANTING CUTTINGS MUST BE INSTALLED DURING THE DORMANT SEASON (DECEMBER TO MID-MARCH), SEEDLINGS MAY BE PLANTED IN EARLY SPRING OR LATE FALL.
- PROTECT CUTTINGS FROM DAMAGE DURING INSTALLATION.
- INSTALL CUTTINGS IN COORDINATION WITH BANK PROTECTION INSTALLATION, OR INSTALL TEMPORARY TUBING FOR PLANTING AT A LATER DATE
- CUTTINGS TO EXTEND AT LEAST 12" INTO EXISTING SUBGRADE BELOW RIP RAP
- ORIENT PLANTING PERPENDICULAR TO SLOPE



PLAN - SCALE: 1/4" = 1'



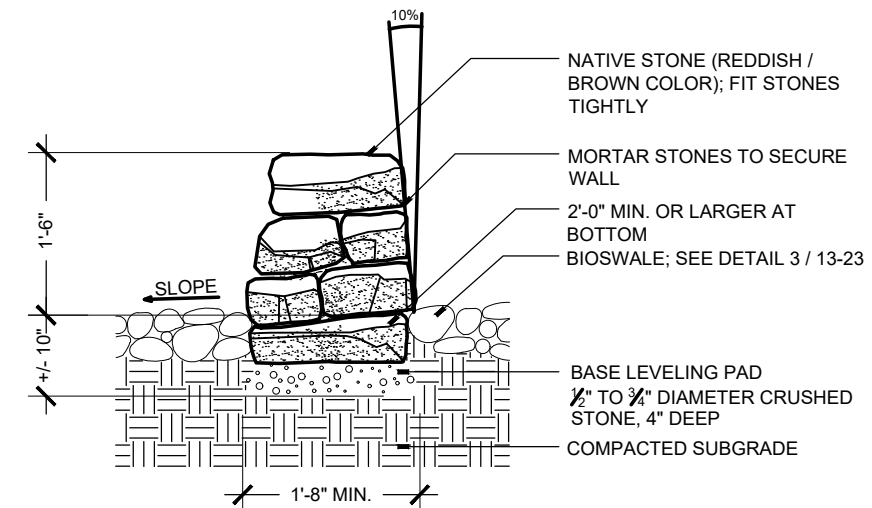
PLAN DIAGRAM



**2 WILLOW CUTTINGS - BANK PROTECTION**

SCALE: 3/8"=1'-0"

SECTION



**4 CHECK DAM**

SCALE: 9/16"=1'-0"

SECTION

Project Management Initials: Designer: JRO Checked: CH Approved: #  
Filename: X:\1193 SF River Greenway\4-cad\sheet\40-193-detailed.dwg