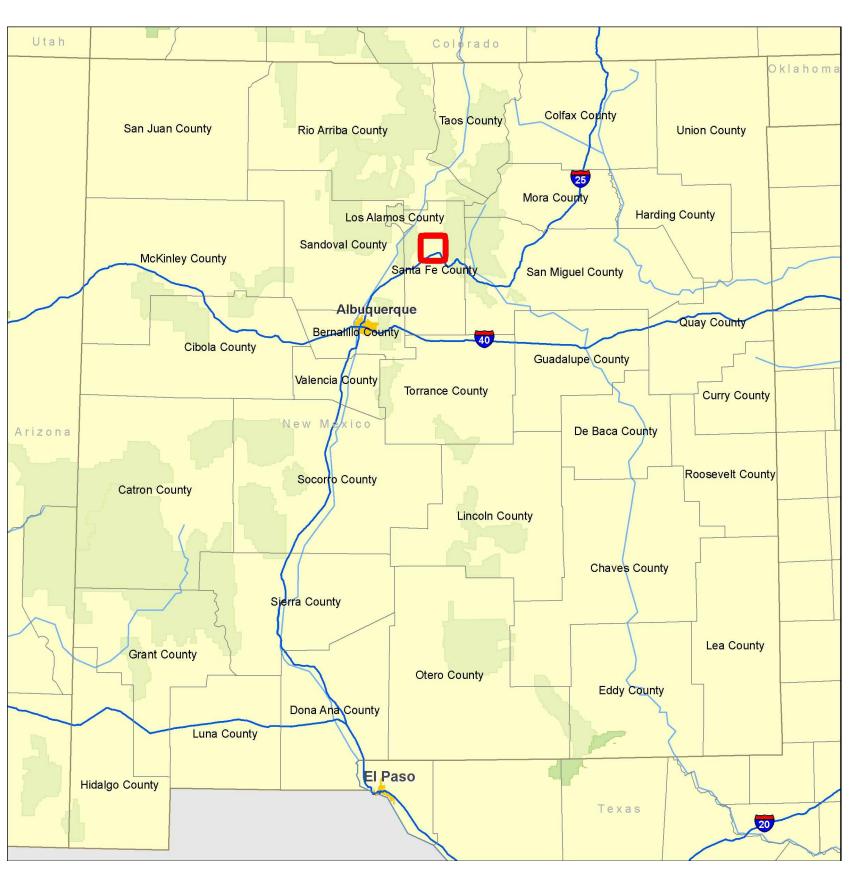
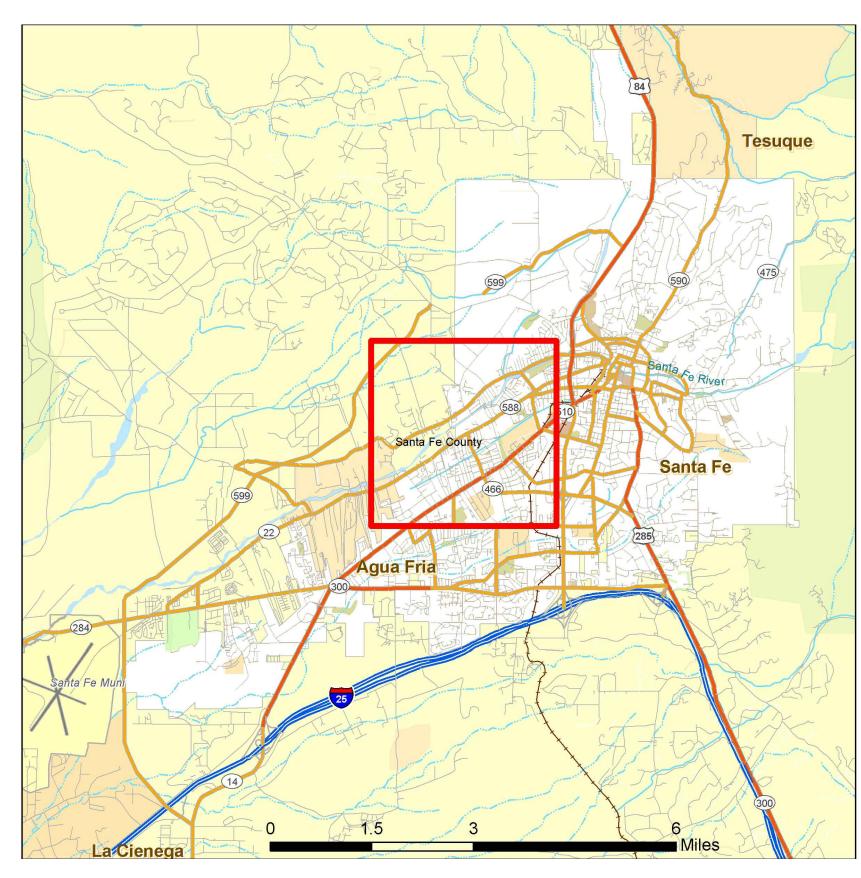
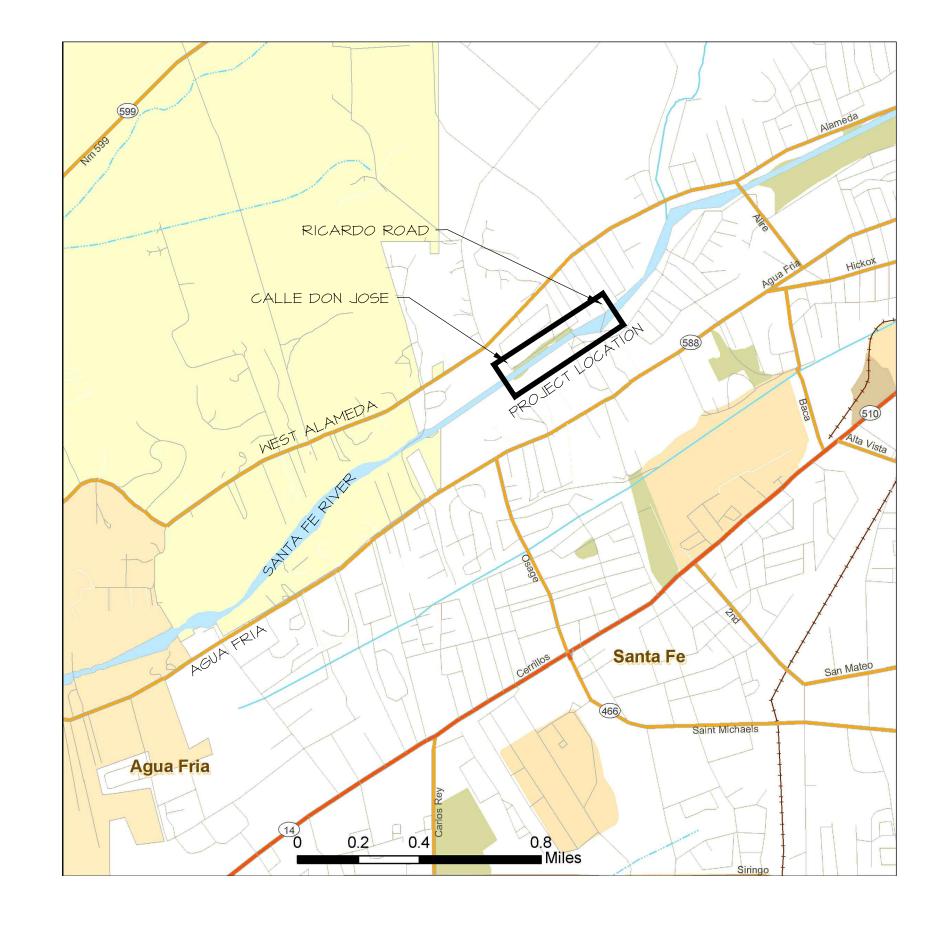
CIP 500 C: SANTA FE RIVER FLOOD DAMAGE REPAIRS

RICARDO ROAD TRAIL BRIDGE TO CALLE DON JOSE STORM DRAIN OUTFALL

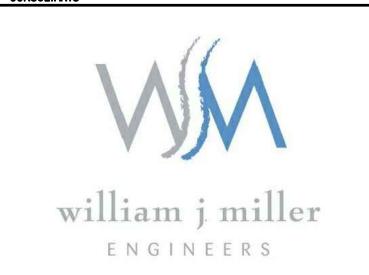








FAX:505-822-8282 E-MAIL: mail@sites-sw.com



CIP 500 C: FLOOD DAMAGE REPAIRS





MARK DATE DESCRIPTION ISSUE DATE: JUNE 28, 2019 SSW 2019052 WJM 19060 CAD DWG FILE: 2019052 100PCT.DWG

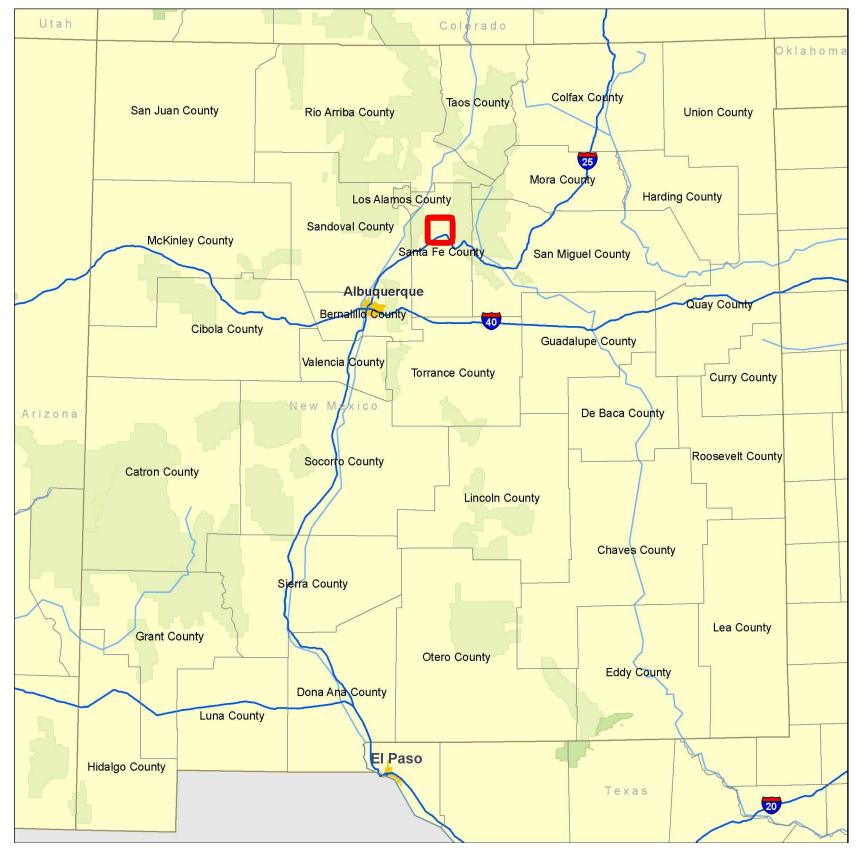
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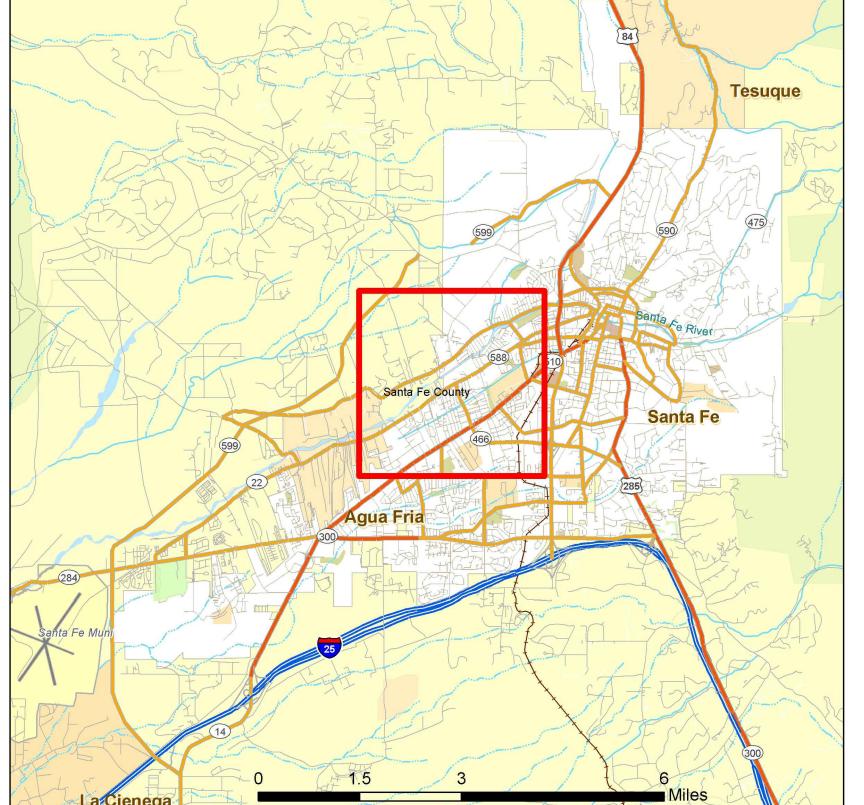
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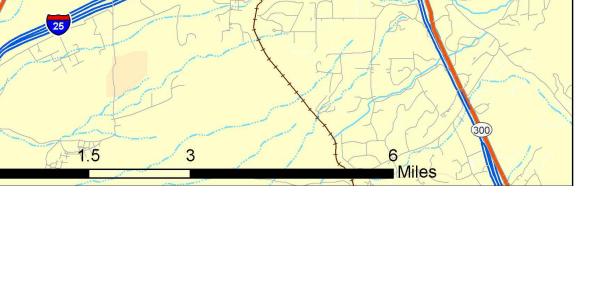
SHEET 1

COVER

OF 17







SHEET INDEX Sheet No. Sheet Name

COVER SHEET GENERAL NOTES OVERALL SITE KEY MAP PLAN AND PROFILE - AREAS 1-4 PLAN AND PROFILE - AREA 5 PLAN AND PROFILE - AREA 8 PLAN AND PROFILE - AREA 9 PLAN AND PROFILE - AREAS IO-II PLAN AND PROFILE - AREA 12 CONSTRUCTION DETAILS REVEGETATION PLANS - AREAS I-4 REVEGETATION PLAN - AREA 5 REVEGETATION PLAN - AREA & REVEGETATION PLAN - AREA 9 REVEGETATION PLANS - AREAS IO-II REVEGETATION PLAN - AREA 12 PERMITS

VICINITY MAPS



CITY OF SANTA FE, NM

APPROVED BY CITY OF SANTA FE Approved as to general scope. No de	sign (elientia
	7/8/19
PUBLIC WORKS DEPARTMENT DIRECTOR	DATE
REVIEWED BY CITY OF SANTA FE	
MAYOR'S COMMITTEE ON DISABILI	TY
Mach	7 10 10
ADA COORDINATOR Y	DATE

APPROVED BY CITY OF SANTA FE 7/10/19 DATE **ROADWAY & TRAILS** ENGINEERING DIVISION DIRECTOR REVIEWED BY CITY OF SANTA FE HISTORIC PRESERVATION DIVISION HISTORIC PRESERVATION DIVISION DATE

GOVERNING SPECIFICATIONS

I) THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, REGULATIONS, AND RULES WHICH APPLY TO THIS PLAN SET. THIS SHALL INCLUDE ALL ADA REGULATIONS.

2) SPECIFICATIONS FOR THIS PROJECT WILL BE THE NEW MEXICO DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 2014 EDITION." REFERENCES TO 'THE CITY' SHALL IMPLY THE CITY OF SANTA FE FOR THIS PROJECT. IN THE EVENT OF A CONFLICT AMONG CODES, THE NMDOT STANDARDS AND SPECS SHALL GOVERN.

MONUMENTATION INFORMATION

I) A SUPPLEMENTAL HYDROGRAPHIC SURVEY WAS PERFORMED ON MARCH 26, 2019 BY WOLF ENGINEERING TO COLLECT DATA REFLECTING THE POST-FLOOD CHANGES TO THE RIVER CHANNEL A TRIMBLE R-8 RTK GPS WITH TSC2 DATA COLLECTOR WAS USED TO COLLECT HYDROGRAPHIC DATA. SEVERAL TEMPORARY BENCHMARKS WERE LOCATED AS WELL AS EXISTING TOP OF SEWER MANHOLE ELEVATIONS IN THE PROJECT VICINITY. AN OPUS-RS SOLUTION WAS PERFORMED FOR THE BASED STATION (TBMI). THE PROJECT COORDINATES ARE REFERENCED TO NM CENTRAL ZONE NAD 83 (FT) AND NAVD 1988 (FT) (GEOID 12A).

2) PROTECTION OF SURVEY MONUMENTS: THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT HORIZONTAL AND VERTICAL CONTROL SURVEY MONUMENTS (MARK) FROM DAMAGE PRIOR TO INITIATING CONSTRUCTION. AN INVENTORY OF THE EXISTING MONUMENTS WILL BE TAKEN BY THE PROJECT MANAGER AND THE CONTRACTOR WITH ACKNOWLEDGEMENTS PRIOR TO START OF CONSTRUCTION. IF, DURING THE COURSE OF CONSTRUCTION OPERATIONS, THE CONTRACTOR DISTURBS OR DESTROYS A MARK, THE CONTRACTOR SHALL ESTABLISH A NEW MARK IN COMPLIANCE WITH THE STANDARDS AND PROCEDURES SET FORTH IN THE "GEODETIC MARK PRESERVATION GUIDEBOOK," NATIONAL GEODETIC SURVEY, MARCH 1990, CONTACT # NGS MARK PRESERVATION CENTER-NOAA, TELEPHONE 505-768-3606. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.

TRAFFIC CONTROL

I) THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPROVAL FOR TRAFFIC CONTROL PROCEDURES FROM CITY OF SANTA FE PUBLIC WORKS.

2) THE CONTRACTOR SHALL BE THE RESPONSIBLE PARTY FOR THE IMPLEMENTATION AND MAINTENANCE OF ALL TRAFFIC CONTROL PROCEDURES AND MATERIALS. THE CONTRACTOR SHALL HAVE PERSONNEL AVAILABLE 24 HOURS PER DAY, SEVEN (7) DAYS PER WEEK TO INSPECT AND MAINTAIN TRAFFIC CONTROL DEVICES AS DIRECTED BY THE PROJECT MANAGER.

3) THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN A TRAFFIC CONTROL DIARY, WHICH SHALL BE AVAILABLE FOR REVIEW BY THE CITY PROJECT MANAGER. COST OF THIS WORK IS TO BE INCLUDED IN THE UNIT BID PRICE FOR CONSTRUCTION TRAFFIC CONTROL.

4) THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE SAFETY OF PEDESTRIAN AND VEHICULAR TRAFFIC IN THE CONSTRUCTION ZONE BY ENSURING THAT ALL NECESSARY SAFETY PRECAUTIONS ARE TAKEN, AS REQUIRED BY FEDERAL, STATE, AND LOCAL AUTHORITIES, INCLUDING, BUT NOT LIMITED TO: GUARD FENCES, BARRICADES, LIGHTS, AND WARNING SIGNS.

5) PUBLIC ACCESS TO LOCAL BUSINESSES, RESIDENCES AND ROADWAYS: THE CONTRACTOR SHALL PROVIDE INGRESS AND EGRESS TO LOCAL BUSINESSES AND RESIDENCES AND ALL LOCAL ROADWAYS FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL ADVISE OF AND SCHEDULE ACCESS CLOSURES AT LEAST 24 HOURS IN ADVANCE WITH PROPERTY OWNERS AND THE PROJECT MANAGER.

6) THE CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS LISTED IN THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

7) ALL DEVICES SHALL ADHERE TO THE REQUIREMENTS OF SECTION 702 - CONSTRUCTION TRAFFIC CONTROL DEVICES IN THE 2014 EDITION OF THE NMDOT STANDARD SPECIFICATIONS BOOK.

8) ANY PROPOSED CHANGES TO THE CONSTRUCTION SEQUENCE AND/OR TRAFFIC CONTROL PLAN MUST BE SUBMITTED BY THE CONTRACTOR TO THE PROJECT MANAGER FOR APPROVAL. NO PAYMENT WILL BE MADE FOR ANY ADDITIONAL COST RESULTING FROM CHANGES TO THE CONSTRUCTION SEQUENCE OR TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A LETTER OF JUSTIFICATION FOR THE CHANGES WITH THE FOLLOWING ITEMS INCLUDED:

- A REVISED TRAFFIC CONTROL PLAN INCLUDING A SUMMARY OF QUANTITIES AND A COST ESTIMATE.
- THE REVISED TRAFFIC CONTROL PLAN SHALL BE DRAFTED ON IIXIT PAPER AND SEALED BY A LICENSED ENGINEER. THE SUBMITTAL PAPER SHALL MEET CURRENT DRAFTING STANDARDS.
- CHANGES TO THE TRAFFIC CONTROL PLAN MUST BE APPROVED BY THE CITY AT LEAST ONE (I) WEEK IN ADVANCE OF THE IMPLEMENTING CHANGES TO THE FILE.

GENERAL CONSTRUCTION

I) THE CONTRACTOR SHALL PROVIDE A LIST OF CONTACT PERSONNEL RESPONSIBLE FOR SITE CONSTRUCTION INCLUDING POSITION, TELEPHONE NUMBERS, AND AT LEAST ONE EMERGENCY TELEPHONE NUMBER ACTIVE ON A 24-HOUR BASIS.

2) ANY TEMPORARY ACCESS ROUTES FOR PEDESTRIANS AND BICYCLISTS SHALL BE COMPLIANT WITH A.D.A. REQUIREMENTS.

3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING A YARD SITE SUITABLE TO STORE ALL EQUIPMENT AND MATERIALS TO BE USED ON THIS PROJECT. THE CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY WITHOUT PERMISSION FROM THE PROJECT MANAGER. ALL COSTS ASSOCIATED WITH THIS YARD, INCLUDING TAXES, SHALL BE BORNE BY THE CONTRACTOR. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.

4) AS-BUILT PLANS: THE CONTRACTOR SHALL MAINTAIN AN UP-TO-DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THESE PLANS SHALL BE KEPT CURRENT WITHIN ONE WEEK AT ALL TIMES AND SHALL BE SUBJECT TO REVIEW BY THE PROJECT MANAGER THROUGHOUT THE PROJECT. THE FINAL AS-BUILT PLANS SHALL BE SUBMITTED TO THE PROJECT MANAGER AT THE TIME OF FINAL WALK-THROUGH, PRIOR TO

5) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE NECESSARY ARRANGEMENT FOR OBTAINING THE WATER NECESSARY FOR THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHOULD CONTACT THE CITY'S WASTEWATER DIVISION AT 955-4650 FOR MORE INFORMATION AND PRICING REGARDING THE USE, AND PRICING OF THE FIRE HYDRANT WATER METERING, IF AVAILABLE. ANY ASSOCIATED COSTS WILL BE INCIDENTAL TO COMPLETION OF THE PROJECT AND NO SEPARATE PAYMENT WILL BE MADE THEREFOR.

6) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED TO COMPLETE THE PROJECT. ADDITIONAL REMOVALS NOT SHOWN ON THE PLANS MAY BE DESIGNATED BY THE PROJECT MANAGER. ALL REMOVALS, UNLESS OTHERWISE INDICATED, WILL BE INCIDENTAL TO CLEARING AND GRUBBING.

7) ANY SALVAGEABLE MATERIALS REMOVED FROM THIS PROJECT SHALL BE HAULED AND STOCKPILED AT A LOCAL LOCATION DETERMINED BY THE OWNER'S REPRESENTATIVE. HAUL OF SUCH MATERIALS SHALL BE INCIDENTAL TO BID ITEM 201000, CLEARING AND GRUBBING.

8) THE CONTRACTOR WILL BE REQUIRED TO CONFINE HIS WORK WITHIN THE CONSTRUCTION LIMITS AND/OR NEW RIGHT-OF-WAY LIMITS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROHIBIT VEHICLES AND EQUIPMENT FROM DRIVING UPON, ACROSS, OR TURNING ON PRIVATE PROPERTY ADJACENT TO PROJECT LIMITS.

9) OVERNIGHT PARKING OF VEHICLES OR EQUIPMENT WITHIN THE RIVER CHANNEL IS PROHIBITED.

10) THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED BY HIM TO ANY PUBLIC OR PRIVATE PROPERTY, INCLUDING EXISTING WALLS, FENCES, SIDEWALKS, TRAIL SURFACES, SEWER OR WATER LINES, VALVE BOXES, MANHOLES, CURB AND GUTTER, ETC., DURING CONSTRUCTION AND SHALL REPAIR OR REPLACE SAME AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTATION OF ANY EXISTING DAMAGE PRIOR TO START OF CONSTRUCTION.

II) ALL DIMENSIONS ON PLANS ARE APPROXIMATE AND SUBJECT TO FIELD VERIFICATION AND/OR MODIFICATIONS IF NECESSARY TO FIT EXISTING CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ALL OTHER PERTINENT INFORMATION THAT MAY BE REQUIRED TO COMPLETE THE WORK AND COORDINATE ANY REQUIRED CHANGES WITH THE PROJECT ENGINEER.

12) CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL REMOVE ANY GRAFFITI WITHIN 24 HOURS FROM ALL CONSTRUCTION MATERIALS, EQUIPMENT AND SIGNAGE, WHETHER PERMANENT OR TEMPORARY.

13) ALL QUANTITIES SCHEDULED IN THE PLANS ARE FOR ESTIMATING PURPOSES ONLY. PAYMENT AND MEASUREMENT OF QUANTITIES SHALL BE DONE IN ACCORDANCE WITH SECTION 109 - MEASUREMENT AND PAYMENT, OF THE NMDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 2019 EDITION.

14) THE CONTRACTOR SHALL SUBMIT TO THE PROJECT MANAGER A CRITICAL PATH PROJECT SCHEDULE, INCLUDING WEEKLY CONSTRUCTION MEETINGS WITH PRE-SET DATES, TWO (2) WEEKS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE. THE SCHEDULE SHALL BE UPDATED MONTHLY OR AS REQUIRED BY THE PROJECT MANAGER. THE WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.

15) CITY OF SANTA FE NOISE ORDINANCE SECC 5 10-2.4B.(5)(A) PROHIBITS OPERATION OF EQUIPMENT USED IN CONSTRUCTION WORK ON STREETS IN RESIDENTIAL OR COMMERCIALLY ZONED AREAS BETWEEN THE HOURS OF 9:00 P.M. AND 7:00 A.M. THE FOLLOWING DAY. THOSE REQUIREMENTS WILL ALSO BE ENFORCED FOR THIS PROJECT AREA. IN ACCORDANCE WITH SFCC 5 10-2.8 PERMITS, THE CONTRACTOR MAY REQUEST APPROVAL OF A PERMIT TO BE EXEMPT FROM THE AFOREMENTIONED NOISE ORDINANCE FOR THE DURATION OF PROJECT CONSTRUCTION.

16) THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING TREES AND OTHER VEGETATION TO REMAIN, PER THE REQUIREMENTS IDENTIFIED IN THESE PLANS. SEE PLAN SHEETS FOR ADDITIONAL INFORMATION.

EARTHMORK

I) THE EARTHWORK QUANTITIES ARE BASED ON FINAL VOLUMES COMPACTED IN PLACE. ON-SITE EXCAVATION AND BACKFILL QUANTITIES ARE BASED ON AN ASSUMED SHRINKAGE FACTOR OF 20%.

2) UNLESS OTHERWISE STATED WITHIN THIS PLAN SET, ALL SIDESLOPES SHALL BE 3H: IV MAXIMUM, KEEPING SLOPES FLATTER WHEREVER POSSIBLE AS DIRECTED BY THE PROJECT MANAGER. SLOPES SHALL TRANSITION SMOOTHLY TO EXISTING GRADES AND ADJACENT STRUCTURES IN ALL CASES. THE CONTRACTOR SHALL WARP SLOPES WHERE NECESSARY TO STAY WITHIN THE RIGHT-OF-WAY OR CONSTRUCTION LIMITS, OR TO MEET EXISTING STRUCTURES.

3) MATERIAL PITS: NO MATERIAL PITS HAVE BEEN DESIGNATED FOR THIS PROJECT. THE CONTRACTOR MAY OBTAIN SPECIFICATION BORROW OR SURFACING MATERIAL FROM ANY ACCEPTABLE SOURCE. ALL MATERIAL PIT ACTION SHALL BE GOVERNED BY SECTION 106 OF THE NMDOT STANDARD SPECIFICATIONS.

4) ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29, CFR 1926.650, SUBPART

5) THE CONTRACTOR SHALL BE RESTRICTED TO THE USE OF A 35-TON NON-VIBRATING ROLLER MAXIMUM TO OBTAIN THE REQUIRED COMPACTION FOR EMBANKMENT AND SUBGRADE ADJACENT TO VERTICAL BANKS, WHERE THE USE OF HEAVIER OR VIBRATORY EQUIPMENT COULD DAMAGE UNDERGROUND UTILITIES OR OTHER STRUCTURES, OR CAUSE SLOPE FAILURE.

6) CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED OR DEPOSITED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED AWAY.

7) FIELD VERIFICATION: THE CONTRACTOR SHALL FIELD VERIFY THE GRADES AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK. IF THERE IS A DISCREPANCY BETWEEN INDICATED EXISTING ELEVATIONS OR PROPOSED GRADE ELEVATIONS AND THE ACTUAL GRADE ELEVATIONS DETERMINED ON SITE, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER TO DETERMINE WHAT CORRECTIONS NEED TO BE APPLIED. THIS WORK WILL BE PAID FOR UNDER THE CONTRACT PRICE FOR "CONSTRUCTION STAKING BY THE CONTRACTOR" AND NO ADDITIONAL MEASUREMENT OR PAYMENT WILL BE MADE THEREFORE.

8) CONSTRUCTED GRADES AND STRUCTURES SHALL BE WITHIN +/- O.I' (I-I/4") OF PLAN ELEVATIONS.

9) GRADING SHALL BE COMPLETED UNDER THE AUTHORITY OF A BUILDING PERMIT, THE APPLICATION FOR WHICH SHALL SHOW THE TYPE OF WORK AS "OTHER" ALONG WITH THE NOTATION OF "GRADING, LANDSCAPING, AND INFRASTRUCTURE" SHOWN THEREON. CALL 505-955-6948 FOR PERMIT INFORMATION.

UTILITIES

I) ** WARNING ** - EXISTING UTILITY LINE LOCATIONS ARE SHOWN IN APPROXIMATE MANNER ONLY, AND OTHER SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. THE LOCATION OF ANY SUCH EXISTING LINES IS BASED UPON INFORMATION PROVIDED BY THE UTILITY COMPANY, THE OWNER, OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES, IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.

2) THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES WHEN WORKING NEAR THEIR SYSTEMS. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CALL NEW MEXICO ONE CALL SYSTEM AT I-800-321-2537, 48 HOURS PRIOR TO EXCAVATING, REGARDING LOCATION OF EXISTING UTILITIES. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE ITS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.

3) IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES AND THEIR APPURTENANCES WITHIN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO ADDITIONAL PAYMENT WILL BE MADE THEREFORE. DAMAGES OR REPAIRS THAT OCCUR DURING CONSTRUCTION SHALL BE MADE AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL PAYMENT WILL BE MADE THEREFOR, THE INCIDENTAL WORK SHALL ALSO INCLUDE ANY POT-HOLING OR OTHER WORK REQUIRED TO VERIFY UTILITIES.

4) CONTRACTOR SHALL COORDINATE WITH THE CITY OF SANTA FE WATER (505-955-4202) AND/OR WASTEWATER (505-955-4650) DIVISION(S) SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING PUBLIC WATER AND/OR SEWER UTILITIES.

UTILITY CONTACTS ENTITY UTILITY **TELEPHONE** WATER SANGRE DE CRISTO WATER CO. 955-4265 CITY OF SANTA FE 955-4333 (EMERGENCY) SEWER CITY OF SANTA FE PUBLIC UTILITIES 955-6666 GAS 473-7228 NEW MEXICO GAS 888-664-2726 (EMERGENCY) ELECTRIC PUBLIC SERVICE COMPANY 473-3209 OF NEW MEXICO (PNM) 950-1997 (EMERGENCY) CITY OF SANTA FE JAVIER MARTINEZ 505-955-2402 STREETS AND DRAINAGE STORMWATER INFRASTRUCTURE DAVID PIKE 955-2134 RIVER & WATERSHED MANAGER MELISSA MCDONALD 955-6840





WM villiam j. miller ENGINEERS

William J. Miller Engineers, Inc. 1511 Third St., Santa Fe, NM 87505

GENERAL NOTES

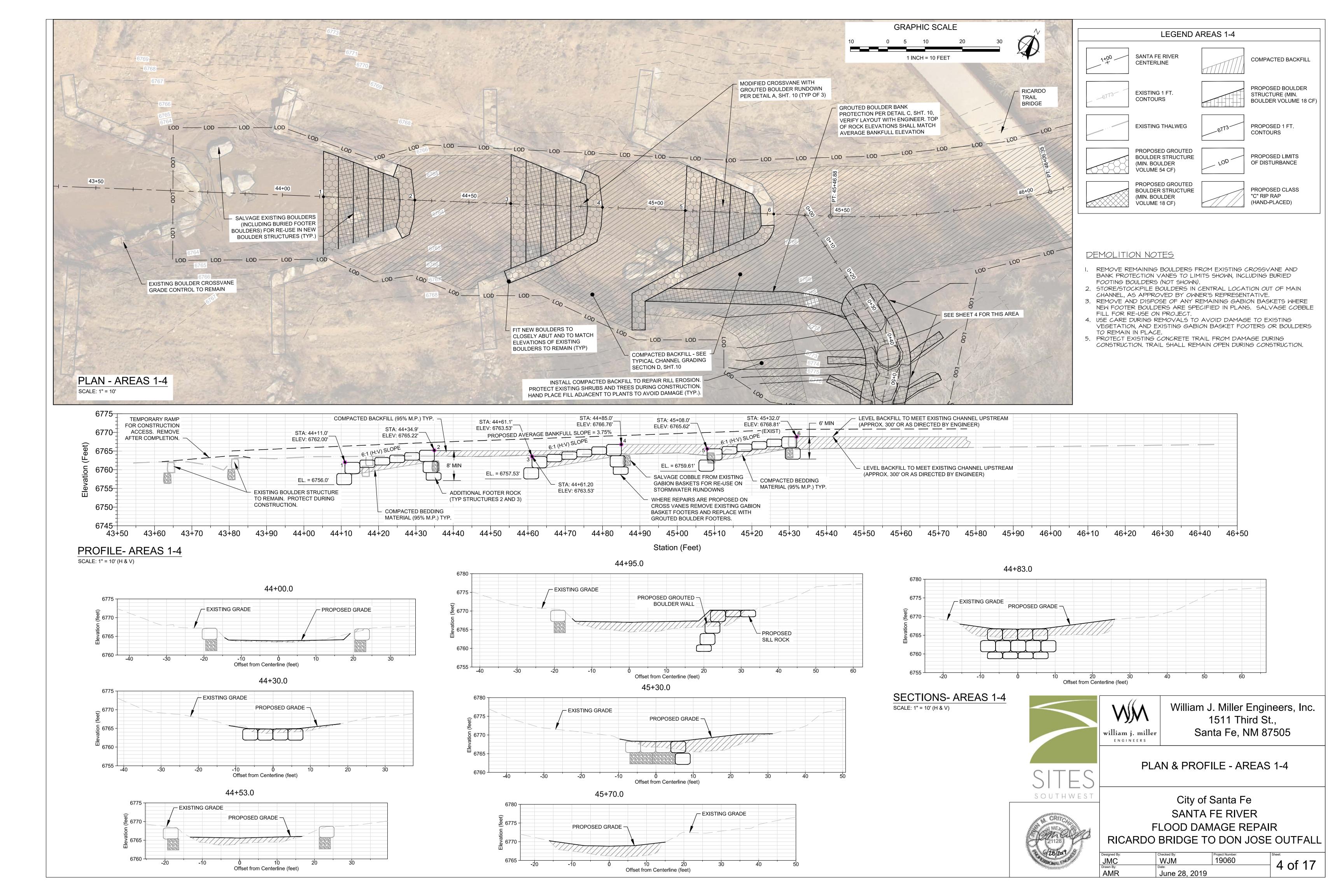
City of Santa Fe SANTA FE RIVER FLOOD DAMAGE REPAIR Ricardo Bridge to Don Jose Storm Drain Outfall

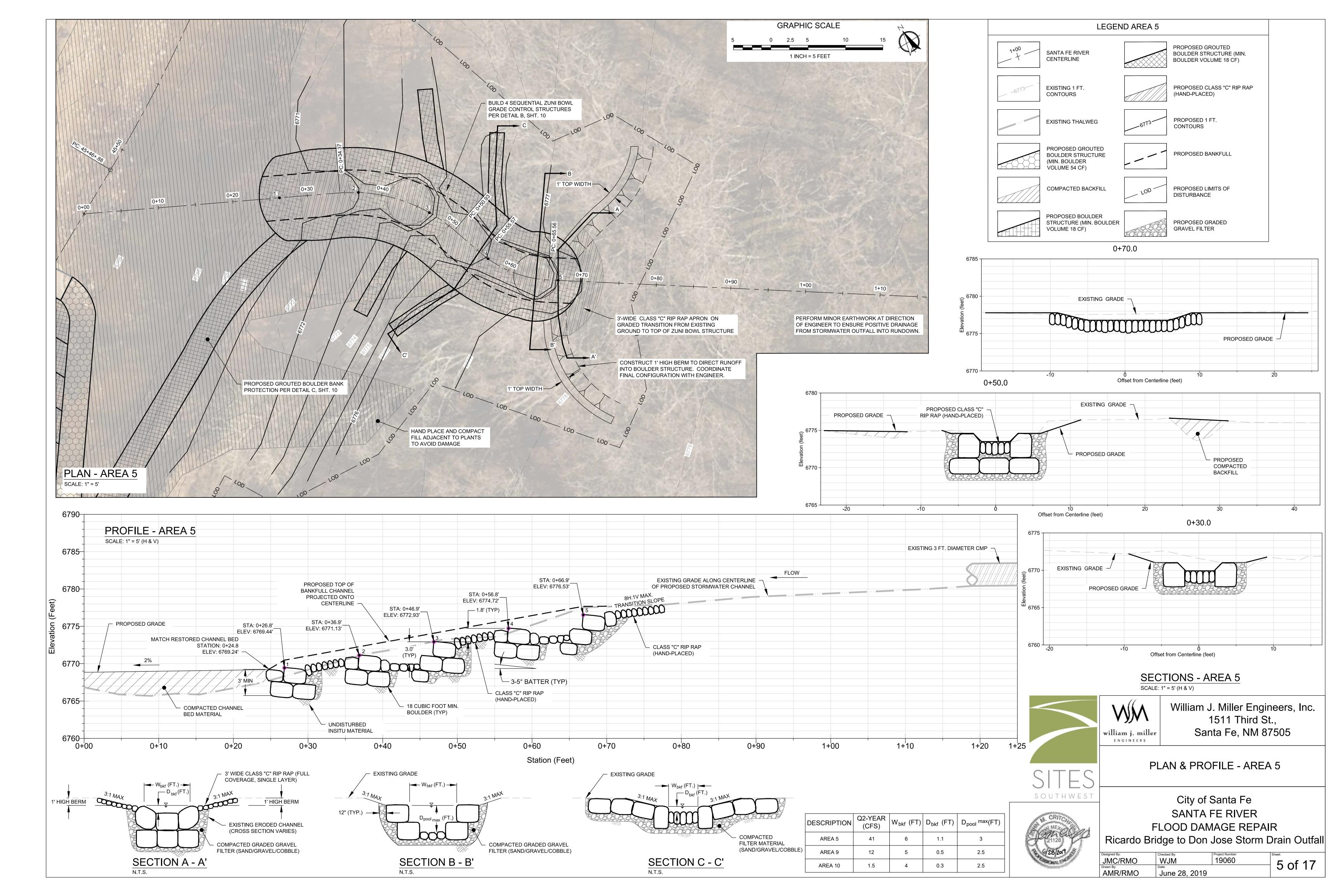
WJM 19060 JMC/RMO 2 of 17 AMR/RMO June 28, 2019

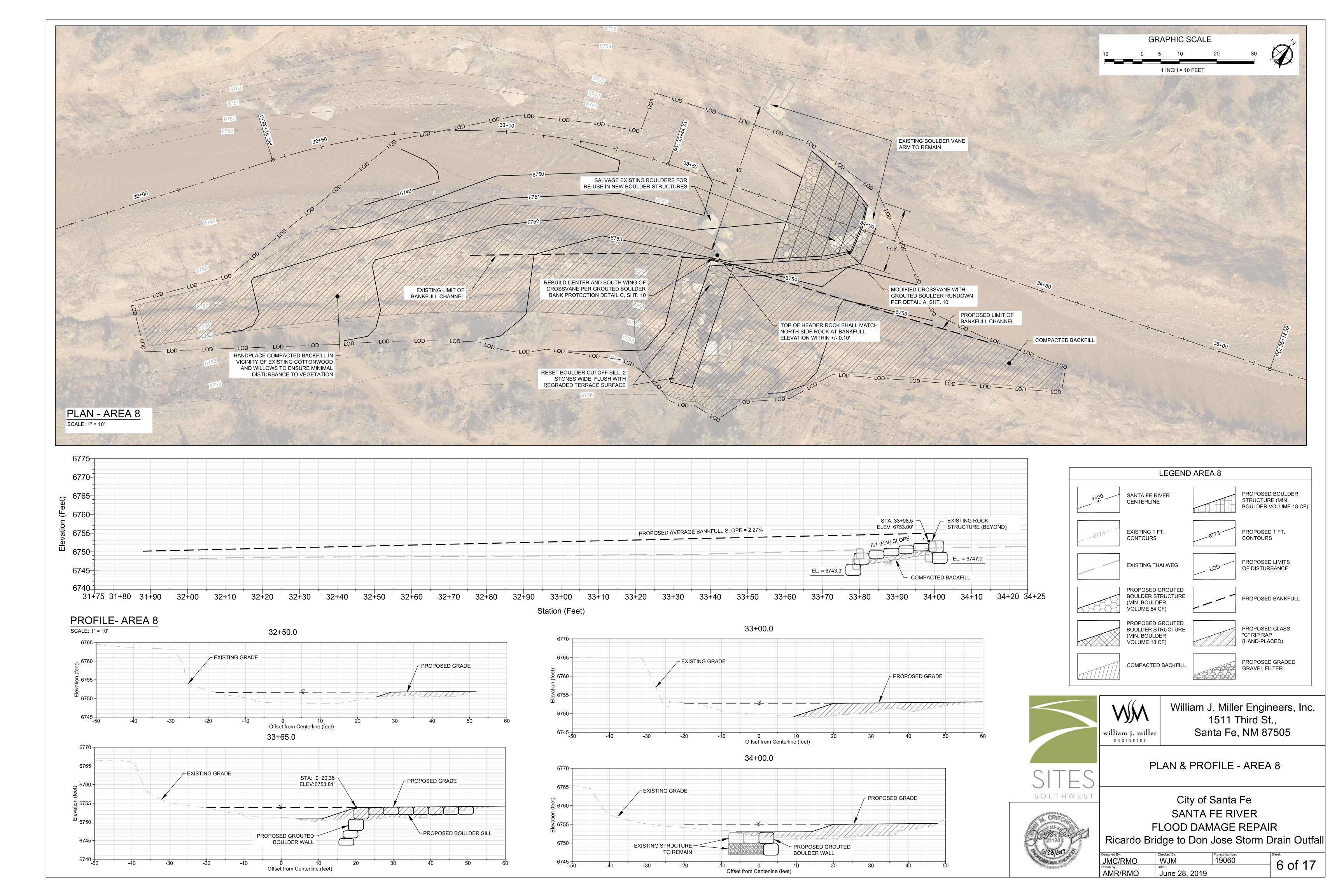
SUMMARY OF QUANTITIES

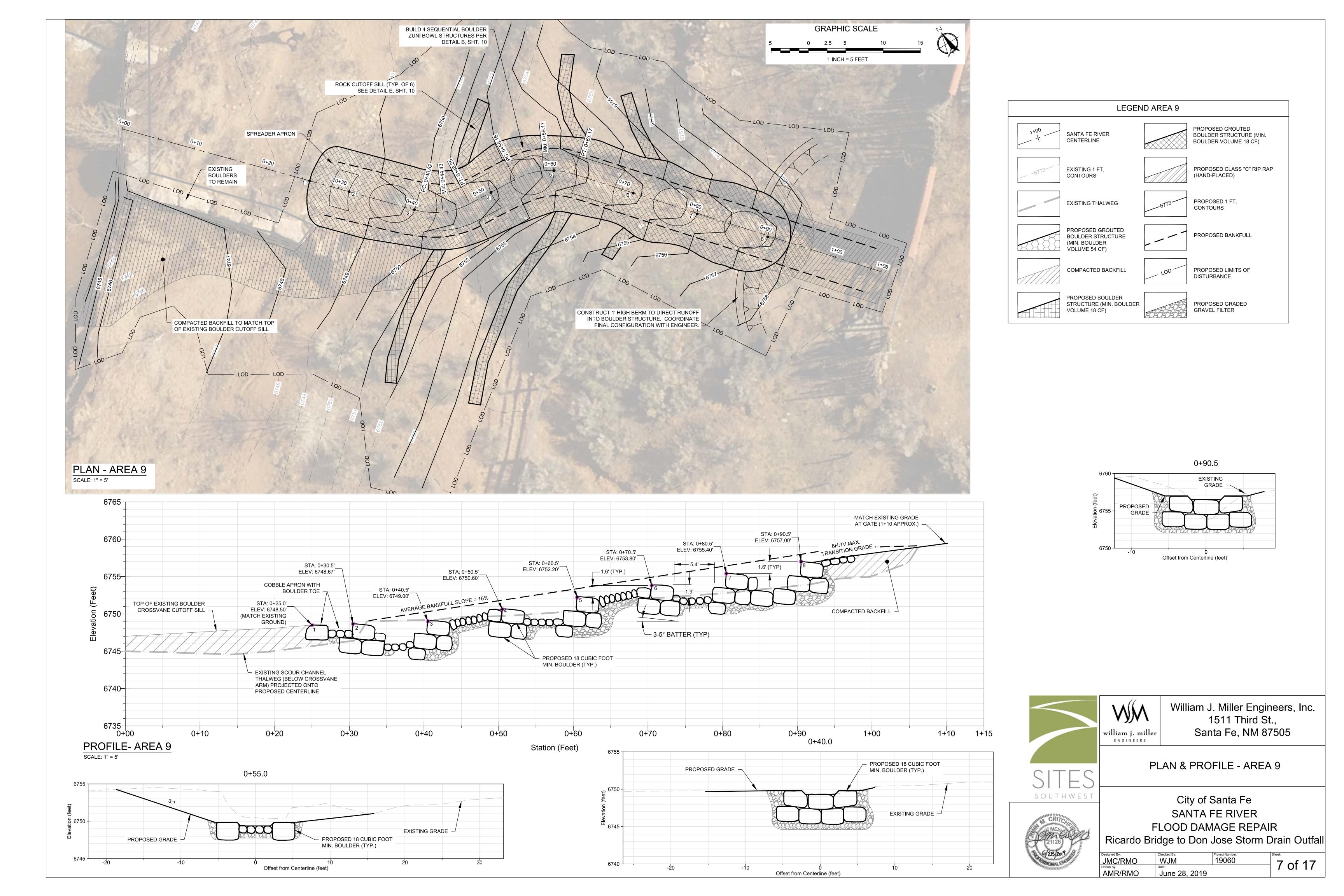
			BAS	E BID		LTERNATIVE o. 1	ADDITIVE AL			ALTERNATIVE No. 3		ALTERNATIVE lo. 4
	BID AND MATERIAL QUANTITIES		AREAS 1-4	AREA 12	AREA 8	AREA 11	AREA 9	AREA 10	AREA 5	ALEJANDRO CHANNEL REHABILITATION	SOUTH BANK PROTECTION AT LA JOYA ST.	LA JOYA CHANNEL REHABILITATION
SPEC. NO.*	DESCRIPTION	UNITS	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
621	Mobilization, demobilization	LS	1	0	0	0	0	0	0	0	0	0
801	Construction staking by Contractor	LS	1 1	1	1	0	1	1	1	1	1	1
603	Temporary erosion and sediment control	LS	1 1	1	1	0	1	1	1	1	1	1
203	Earthwork (excavation & compacted backfill)	CY	350	600	0	20	145	75	105	155	244	137
203	Remove / import excess earthfill	CY	0	210	450	0	110	60	70	1,188	845	195
601	Demolition and removal of existing structure	LS	0	0	0	0	0	0	0	1	0	1
602	Salvage and install structure rock (54 cu. ft. min.)	TN	170	110	105	40	0	0	0	0	0	0
602	Furnish and install structure rock (54 cu. Ft. min.)	TN	165	10	35	0	0	0	0	0	1,230	0
602	Furnish and install grouted structure rock (18-27 cu. ft.)	TN	180	385	51	0	0	0	0	0	0	0
602	Salvage and install structure rock (18-27 cu. ft.)	TN	0	87	0	0	0	0	0	0	0	0
602	Furnish and install structure rock (18-27 cu. ft.)	TN	0	93	0	0	150	153	85	44 5	0	340
602	Furnish and install Class C Riprap (hand placed)	CY	0	14	0	0	7	8	9	0	0	11
303	Furnish and install graded gravel filter	CY	0	102	0	36	81	54	47	50	170	15
570/206	Furnish and install 3.5 ft. diameter CMP	LF	0	0	0	0	0	0	0	20	0	20
632/664	Revegetation and landscape planting	LS	1 1	1	1	0	1	1	1	1	1	1
702	Traffic control	LS	1	1	0	0	0	0	0	0	1	1
			•					•		SEPAR	RATE PLA	N SET

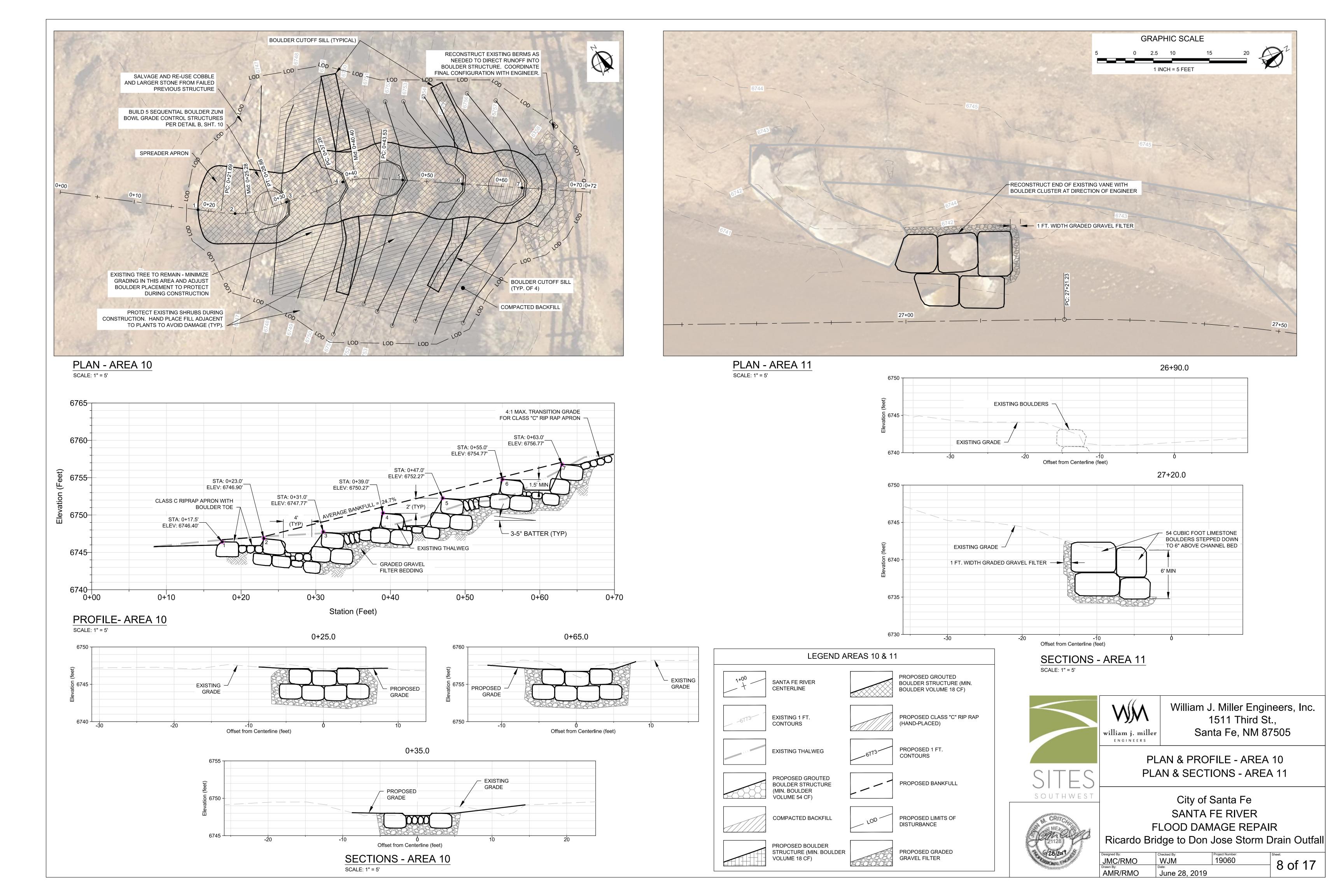


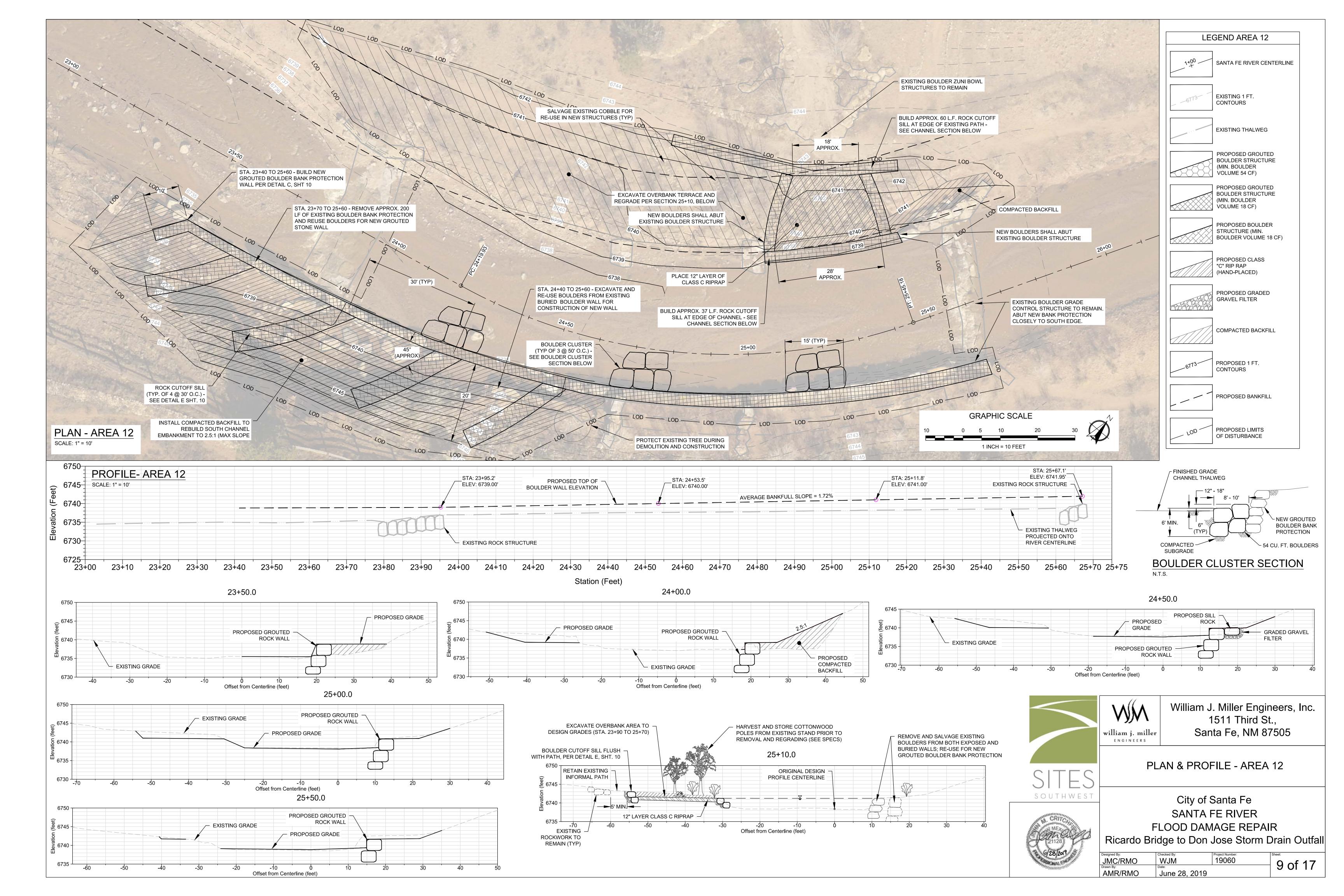


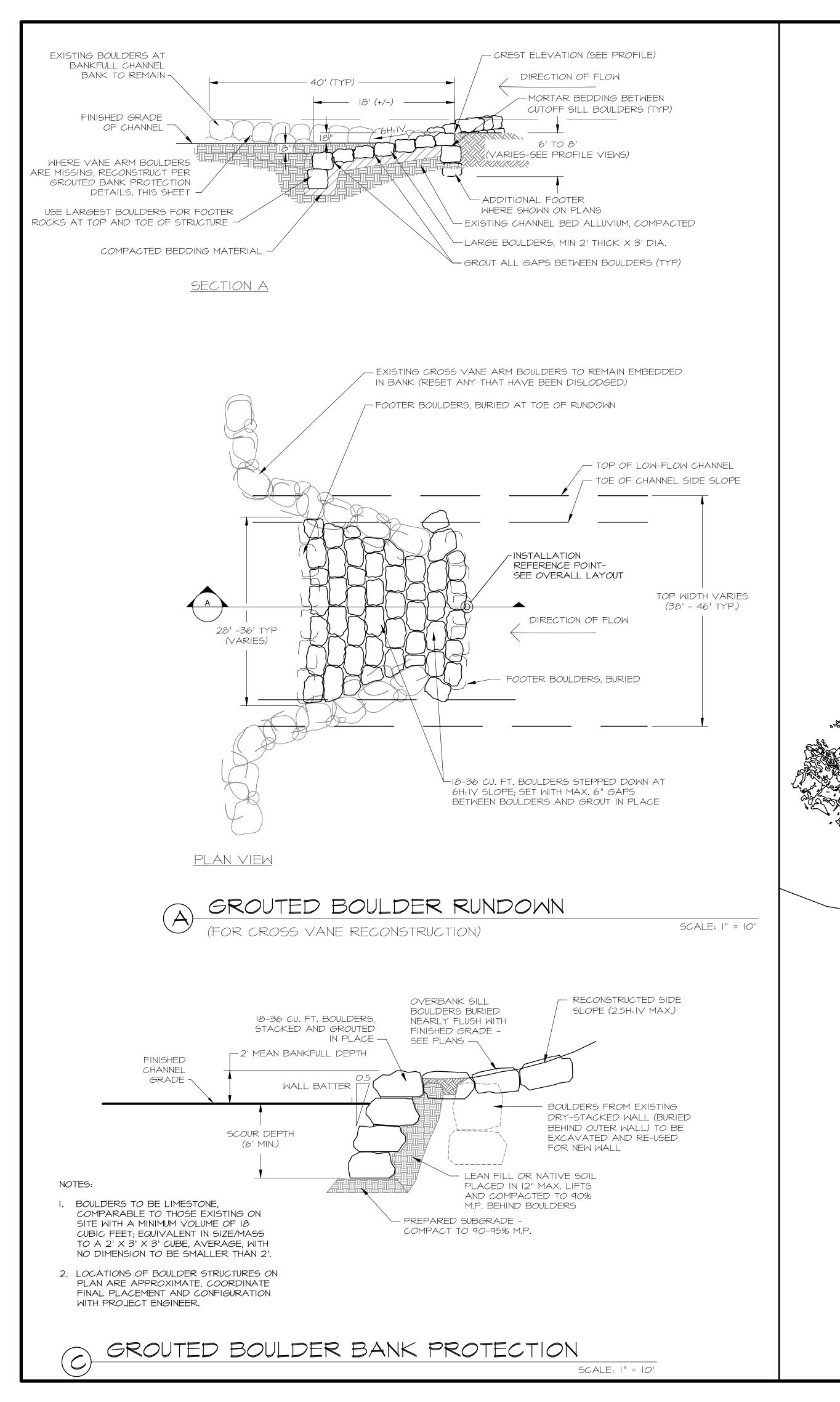


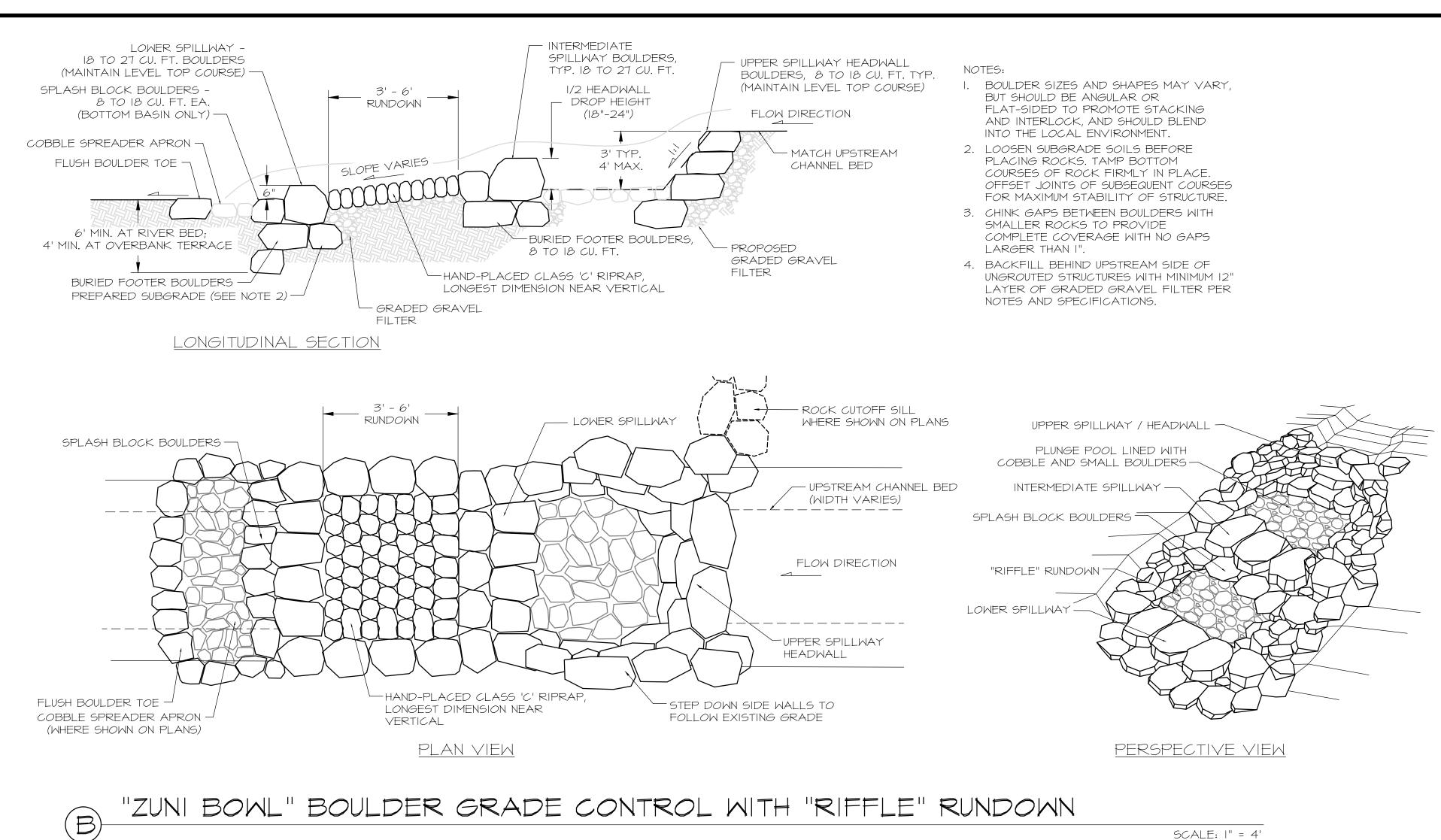


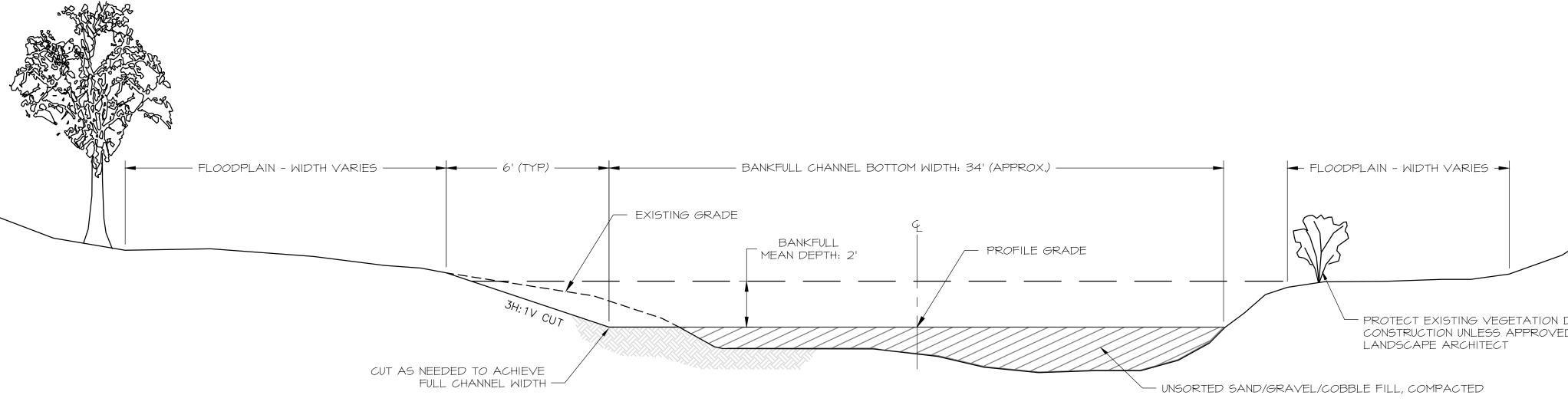












TYPICAL CHANNEL GRADING SECTION

william j. miller

William J. Miller Engineers, Inc. 1511 Third St., Santa Fe, NM 87505

BOULDER GRADE CONTROL DETAILS

NOT TO SCALE

City of Santa Fe
SANTA FE RIVER
FLOOD DAMAGE REPAIR
Ricardo Bridge to Don Jose Storm Drain Outfall

CLOSELY ABUT BOULDERS AND
OFFSET JOINTS BETWEEN ROWS

TWO ROWS OF 8 TO 18 CU. FT. BOULDERS, SET ALMOST

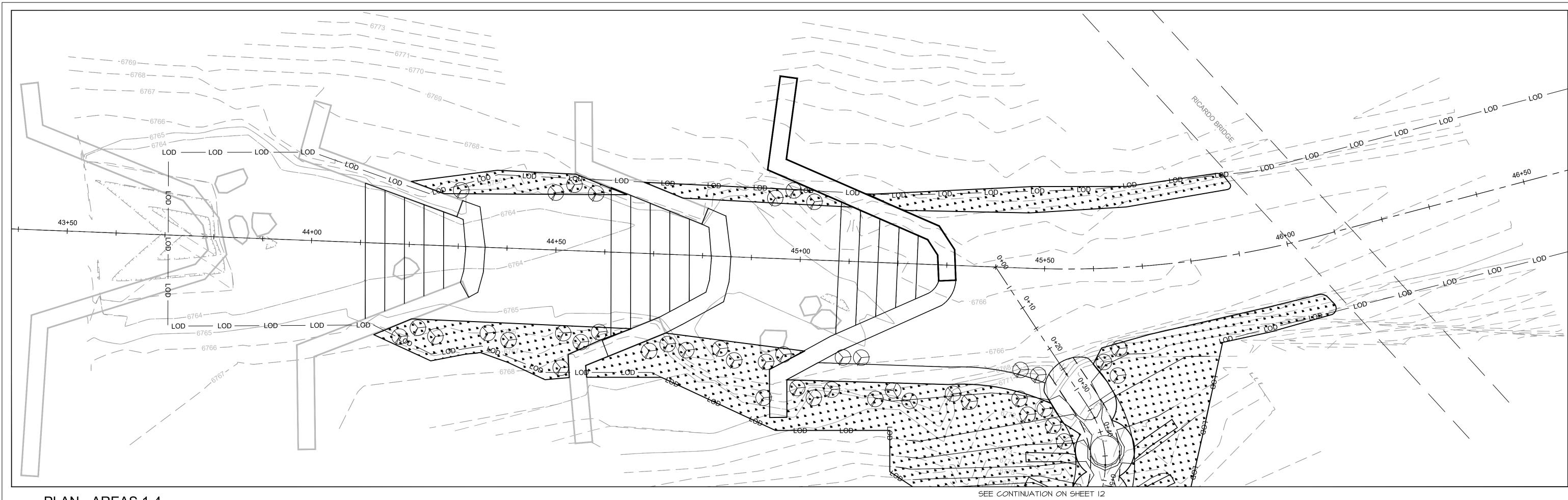
FLUSH WITH SURFACE (MAX

4" EXPOSED ON UPHILL SIDE) -

GRADE VARIES —

BOULDER CUTOFF SILL SECTION VIEW

NOT TO SCALE



PLAN - AREAS 1-4

SCALE: 1" = 10'



COTTONWOOD POLE PLANTING



WILLOW WHIP POLE PLANTINGS



NMDOT CLASS "C" NATIVE REVEGETATION SEEDING (SEE REVEGETATION NOTES)

REVEGETATION NOTE:

ALL AREAS OUTSIDE OF MAIN CHANNEL THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE RESEEDED WITH THE FOLLOWING SEE MIX:

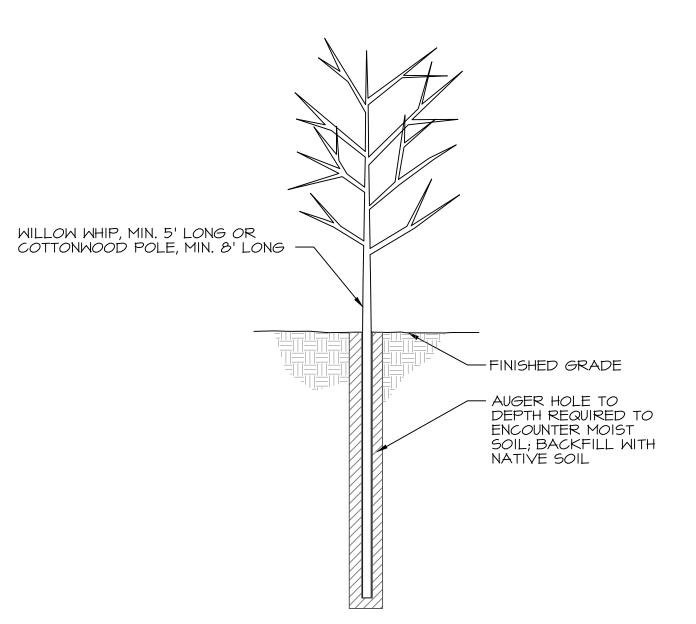
NATIVE SEED TO BE "SANTA FE TRAIL" GRASS BLEND, AS AVAILABLE FROM CURTIS AND CURTIS, CLOVIS, NM (PHONE: 800-753-4649; EMAIL: SEED@CURTISSEED.COM), OR APPROVED EQUIVALENT. SEED BLEND CONSISTS OF THE FOLLOWING:

- BLUE GRAMA SIDEOATS GRAMA INDIAN RICEGRASS WESTERN WHEATGRA
- WESTERN WHEATGRASS BUFFALOGRASS ALKALI SACATON SHEEP FESCUE

LITTLE BLUESTEM

SEEDING RATE TO BE I LB PLS/1000 SF

NOTE: ANY AREAS DISTURBED OUTSIDE OF THE LIMITS SHOWN SHALL BE RESEEDED AT THE CONTRACTOR'S EXPENSE FOLLOWING COMPLETION OF CONSTRUCTION.



POLE PLANTING NOTES:

LARGER END FACING DOWNWARD.

I. WILLOW WHIPS AND COTTONWOOD POLES USED FOR POLE PLANTING SHOULD BE HARVESTED WHILE DORMANT, BEFORE BUDS BREAK WINTER DORMANCY, AND PLANTED IN LATE WINTER / EARLY SPRING.

2. WHIPS OR POLES SHOULD BE HARVESTED LOCALLY, INSOFAR AS POSSIBLE, FROM APPROVED SOURCE.

3. SECONDARY BRANCHES SHOULD BE REMOVED FROM POLE PORTION TO BE PLACED BELOW GRADE.

4. AFTER HARVESTING, WHIPS SHOULD BE KEPT MOIST BY PLACING ENDS IN WATER AT ALL TIMES EXCEPT DURING

TRANSPORT.

5. AT LEAST 3/4 OF STEM SHOULD BE BURIED BELOW GRADE, WITH

6. "SUPER THRIVE" ROOT STIMULATOR (OR APPROVED EQUAL) SHOULD BE APPLIED TO BURIED END OF POLE PRIOR TO BACKFILLING.

7. ENSURE THAT AUGERED PLANTING HOLE EXTENDS INTO DAMP SUBSOIL.



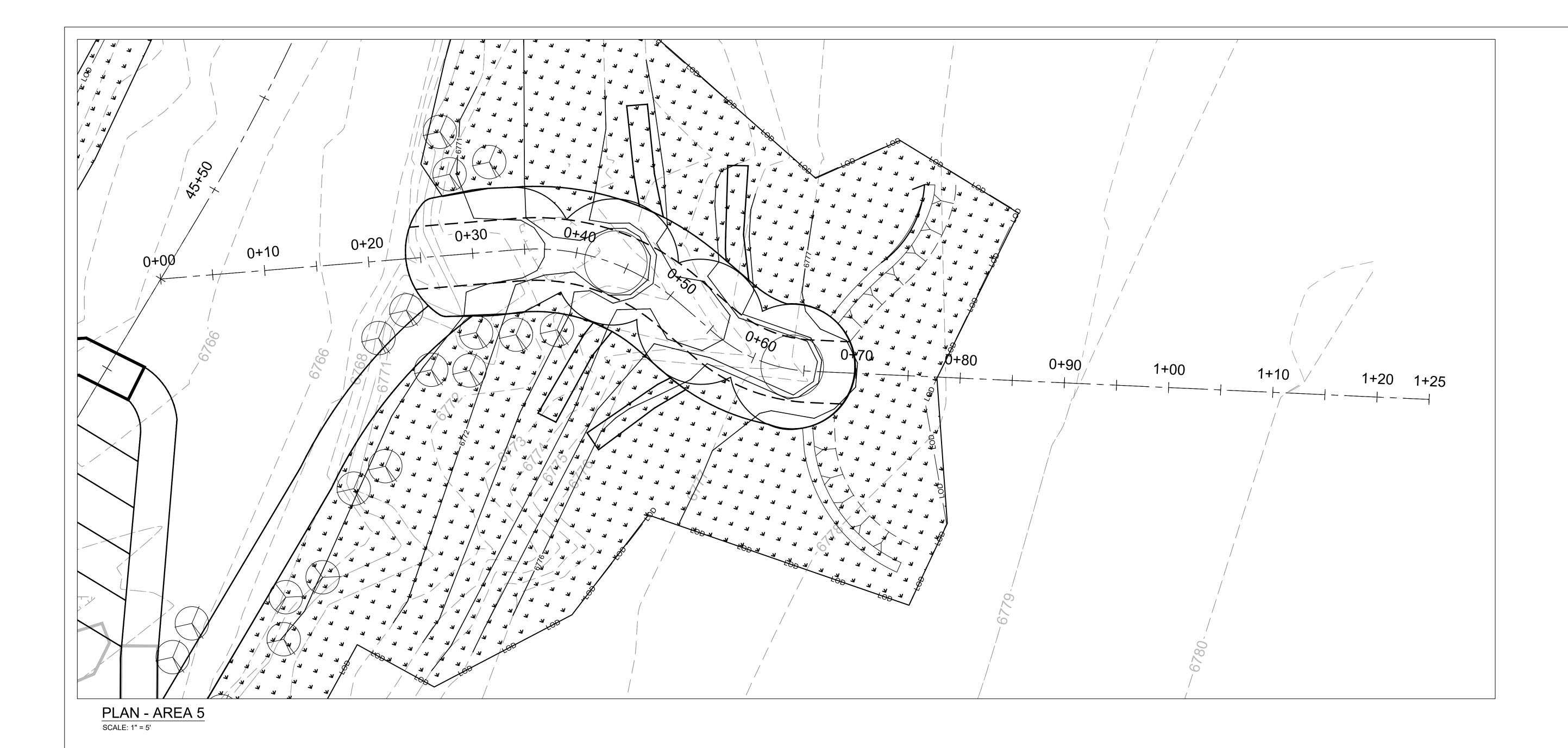


William J. Miller Engineers, Inc. 1511 Third St., Santa Fe, NM 87505

REVEGETATION PLAN - AREAS 1-4

City of Santa Fe
SANTA FE RIVER
FLOOD DAMAGE REPAIR
RICARDO BRIDGE TO DON JOSE OUTFALL

Designed By:	Checked By:	Project Number:	Sheet:
RMO	RMO	19060	11 of 17
Drawn By:	Date:		
WF	June 28, 2019		



LEGEND



COTTONWOOD POLE PLANTING



WILLOW WHIP POLE PLANTINGS



NMDOT CLASS "C" NATIVE REVEGETATION SEEDING (SEE REVEGETATION NOTES)

REVEGETATION NOTE:

ALL AREAS OUTSIDE OF MAIN CHANNEL THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE RESEEDED WITH THE FOLLOWING SEE MIX:

NATIVE SEED TO BE "SANTA FE TRAIL" GRASS BLEND, AS AVAILABLE FROM CURTIS AND CURTIS, CLOVIS, NM (PHONE: 800-753-4649; EMAIL: SEED@CURTISSEED.COM), OR APPROVED EQUIVALENT. SEED BLEND CONSISTS OF THE FOLLOWING:

BLUE GRAMA
SIDEOATS GRAMA
INDIAN RICEGRASS
WESTERN WHEATGRASS
BUFFALOGRASS
ALKALI SACATON
SHEEP FESCUE
LITTLE BLUESTEM

SEEDING RATE TO BE I LB PLS/1000 SF

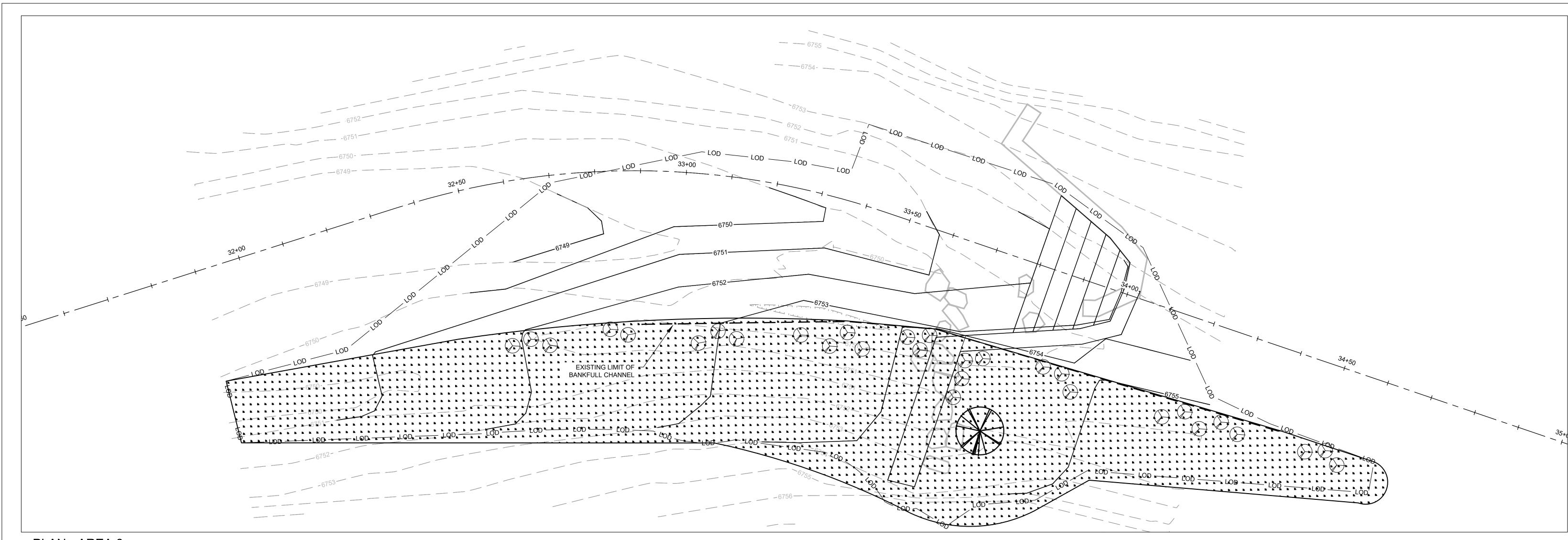
NOTE: ANY AREAS DISTURBED OUTSIDE OF THE LIMITS SHOWN SHALL BE RESEEDED AT THE CONTRACTOR'S EXPENSE FOLLOWING COMPLETION OF CONSTRUCTION.



William J. Miller Engineers, Inc. 1511 Third St., Santa Fe, NM 87505

REVEGETATION PLAN - AREA 5

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PLAN - AREA 8

SCALE: 1" = 10'





COTTONWOOD POLE PLANTING



WILLOW WHIP POLE PLANTINGS



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MESTERN WHEATGRASS
BUFFALOGRASS
ALKALI SACATON

SHEEP FESCUE LITTLE BLUESTEM

SEEDING RATE TO BE I LB PLS/1000 SF

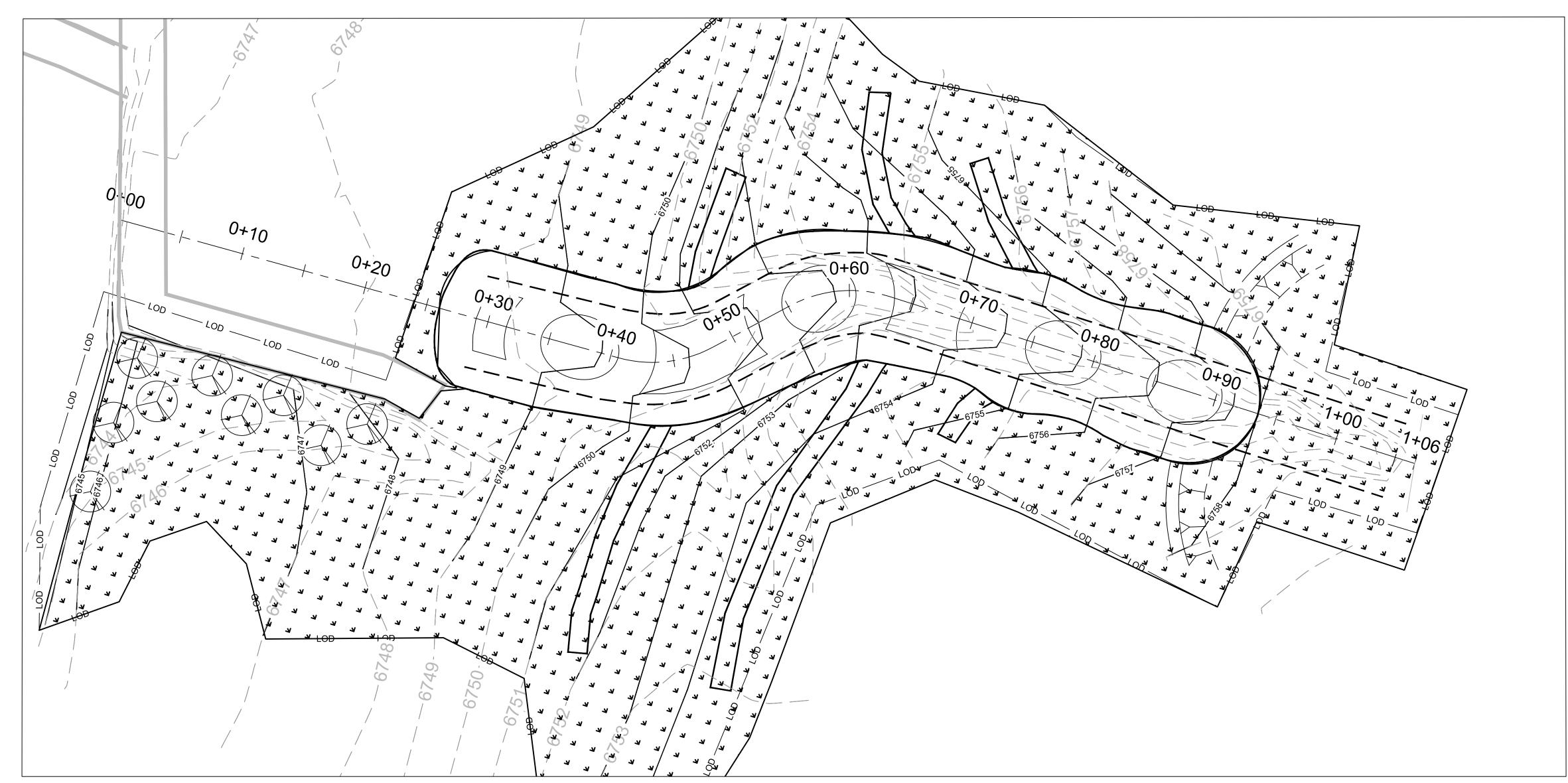
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REVEGETATION PLAN - AREA 8

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ΝF	June 28, 2019		



PLAN - AREA 9

SCALE: 1" = 5'

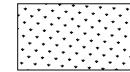
LEGEND



COTTONWOOD POLE PLANTING



WILLOW WHIP POLE PLANTINGS



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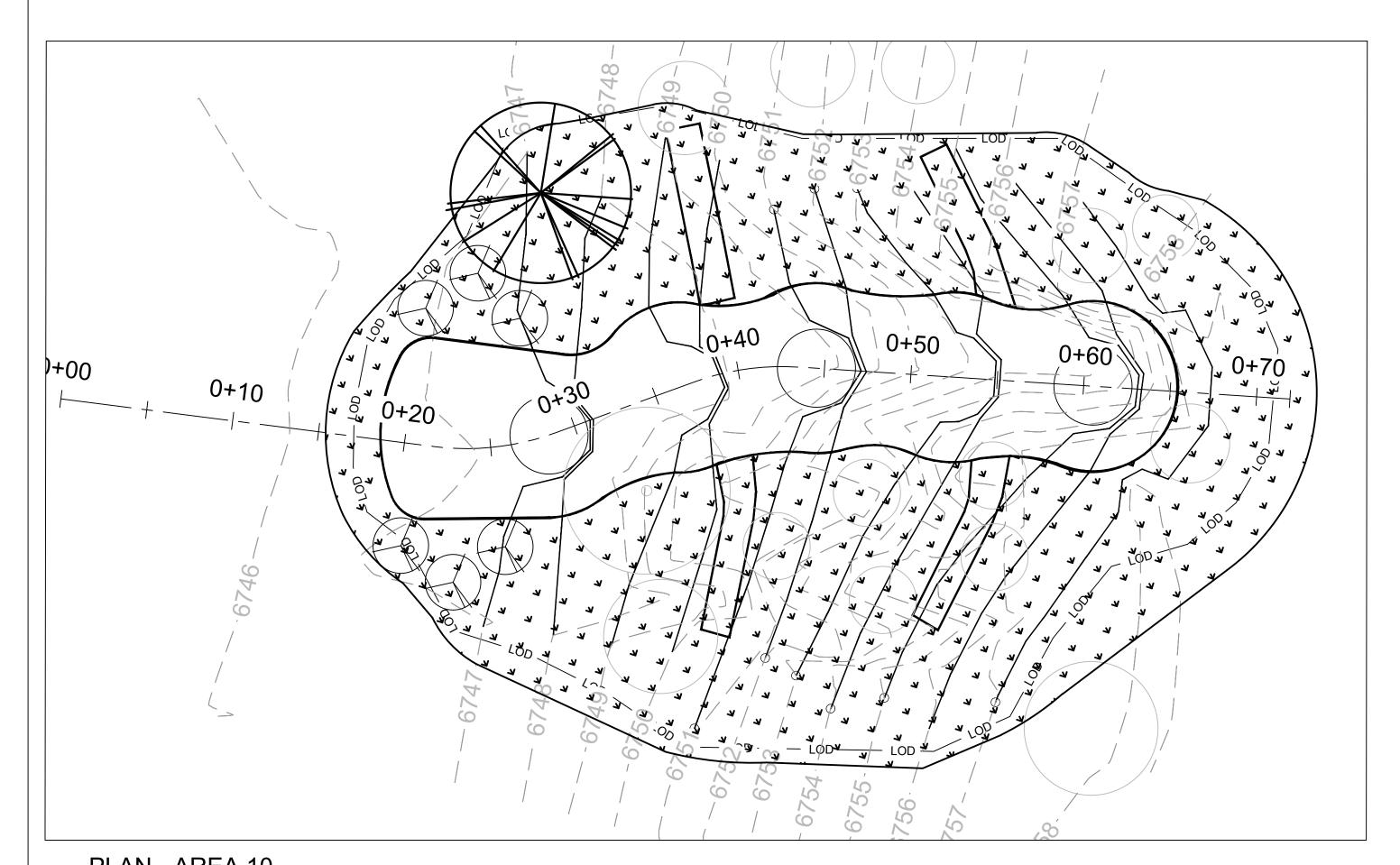
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REVEGETATION PLAN - AREA 9

Designed By:	Checked By:	Project Number:	Sheet:
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6745-6745-6745-6745-6745-6745-6745-6745-6745-6745-6745-6745-6745-6745-

PLAN - AREA 11

SCALE: 1" = 5'

PLAN - AREA 10 SCALE: 1" = 5'

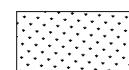
LEGEND



COTTONWOOD POLE PLANTING



WILLOW WHIP POLE PLANTINGS



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SEEDING RATE TO BE I LB PLS/1000 SF

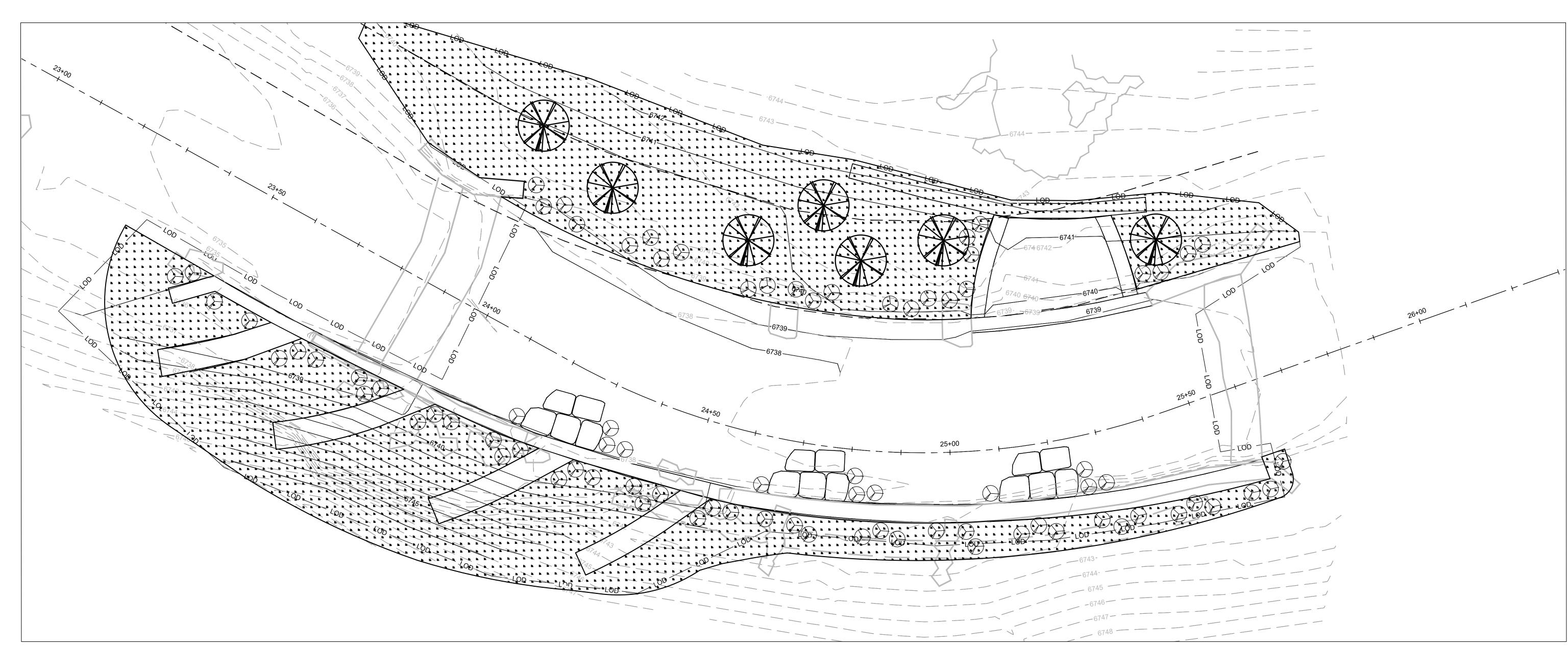
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William J. Miller Engineers, Inc. 1511 Third St., Santa Fe, NM 87505

REVEGETATION PLAN - AREA 10 REVEGETATION PLAN - AREA 11

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٧F	June 28, 2019		



PLAN - AREA 12

SCALE: 1" = 10'

LEGEND



COTTONWOOD POLE PLANTING



WILLOW WHIP POLE PLANTINGS



NMDOT CLASS "C" NATIVE REVEGETATION SEEDING (SEE REVEGETATION NOTES) REVEGETATION NOTE:

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LITTLE BLUESTEM

SEEDING RATE TO BE I LB PLS/1000 SF

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William J. Miller Engineers, Inc. 1511 Third St., Santa Fe, NM 87505

REVEGETATION PLAN - AREA 12

Designed By:	Checked By:	Project Number:	Sheet:
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Orawn By:	Date:		
WF	June 28, 2019		



BILL RICHARDSON Governor DIANE DENISH

Lieutenant Governor

NEW MEXICO ENVIRONMENT DEPARTMENT Surface Water Quality Bureau JUN 29 2010 Harold Runnels Building, N2050 1190 South St. Francis Drive 87505NGINEERING DIVISION CURRY

P.O. Box 5469, Santa Fe, NM 87502 SARAH COTTRELL Phone (505) 827-0187 Fax (505) 827-0160 Deputy Secretary www.nmenv.state.nm.us

June 24, 2010

CERTIFIED MAIL NO. 7008 1830 0003 4174 5623

Mr. Brian K. Drypolcher City of Santa Fe, Watershed and Trails Section, Engineering Division

Santa Fe, New Mexico 87504-0909

Subject: Clean Water Act Section 401 Water Quality Certification for NMED SWQB File SF-507: Santa Fe River Restoration, Santa Fe County, New Mexico.

Dear Mr. Drypolcher,

The Surface Water Quality Bureau (SWQB) of the New Mexico Environment Department has examined the application for the project indicated above under Sections 404 and 401 of the federal Clean Water Act. According to the application, this project involves installing trails, channel and bank stabilization, and revegetation along at the Santa Fe River between Camino Alire and Camino Carlos Real. Gannett Fleming West, Inc. is acting as agent on your behalf.

The U.S. Army Corps of Engineers (USACE) will regulate this project under Nationwide Permit NW-27 (USACE Action SPA-2009-00765 -ABQ). A state Water Quality Certification is required by Section 401 of the federal Clean Water Act to ensure that the project complies with the State of New Mexico water quality standards (State of New Mexico, Standards for Interstate & Intrastate Surface Waters, New Mexico Water Quality Control Commission, 20.6.4 New Mexico Administrative Code (NMAC) amendments effective on August 1, 2007). A Section 401 Water Quality Certification is also required to comply with General Condition 21 (Water Quality) and General Condition 23 (Regional and Case-By-Case Conditions) of the Nationwide Permits.

The State of New Mexico water quality standards applicable to the project, which are available on the web at http://www.nmcpr.state.nm.us/nmac/parts/title20/20.006.0004.pdf include, but are not limited to:

20.6.4.8

20.6.4.13.J

Antidegradation Policy and Implementation Plan 20.6.4.13 A, B, F, I General Criteria for Bottom Deposits and Suspended or Settleable Solids, Floating Solids, Oil and Grease, Toxic Pollutants, Temperature, and Turbidity Turbidity attributable to other than natural causes shall not reduce light transmission to the point that the normal growth, function or reproduction of aquatic life is impaired or that will cause substantial visible contrast with the natural appearance of the water. Turbidity shall not exceed 10 NTU over background turbidity when the background turbidity is 50 NTU or less, or

increase more than 20 percent when the background turbidity is more than 50

NTU. Background turbidity shall be measured at a point immediately upstream of the turbidity-causing activity. However, limited-duration activities necessary to accommodate dredging, construction or other similar activities and that cause the criterion to be exceeded may be authorized provided all practicable turbidity control techniques have been applied and all appropriate permits and approvals have been obtained.

20.6.4.98 All intermittent surface waters of the state... 20.6.4.900

Standards Applicable to Attainable or Designated Uses

According to the State of New Mexico water quality standards, the Santa Fe River (Santa Fe WWTP to Nichols Reservoir) is designated for the following uses: livestock watering, wildlife habitat, limited aquatic life and secondary contact. "Surface water(s) of the state" means all surface waters including streams, mudflats, sandflats, wetlands, sloughs, wet meadows, and natural ponds. The Santa Fe River (Santa Fe WWTP to Nichols Reservoir) does not meet State of New Mexico water quality standards for aquatic life, primary contact, or wildlife habitat (2008 - 2010 CWA §303(d)/§305(b) Integrated Report and List of Assessed Surface Waters).

Section 401 Water Quality Certification with Conditions:

Pursuant to Section 401 of the Clean Water Act and 40 Code of Federal Regulations Part 121, the SWQB hereby issues a conditional Section 401 Water Quality Certification for USACE Action SPA-2009-00765 -ABQ (Santa Fe River Restoration) based on the application and/or information provided. This certification is subject to conditions to reasonably assure that the activity is consistent with state law, will be conducted in a manner that will not violate applicable State of New Mexico water quality standards. and implements the Water Quality Management Plan, including Total Maximum Daily Loads (TMDLs), the Continuing Planning Process, and Antidegradation Policy Implementation Plan. Therefore, this Certification is not valid unless the following conditions are adhered to:

- 1. Erosion control measures for all portions of the project area that drain to or would have runoff toward surface water must be properly selected, installed, inspected, repaired, and maintained. Erosion and sediment control structures (e.g., silt fences, sediment basins, etc.) must be inspected after significant storm events and repaired as necessary. Sediment must be removed from erosion control structures when the sediment reaches one-half the height of the structure or wet storage volume is reduced by
- 2. Fuel, oil, hydraulic fluid, lubricants, and other petrochemicals must not be stored within the 100-year floodplain and must have a secondary containment system to prevent spills. Appropriate spill cleanup materials such as booms and absorbent pads must be available on-site at all times during construction.
- 3. All heavy equipment used in the project area must be pressure washed and/or steam cleaned before the start of the project and inspected daily for leaks. A written log of inspections and maintenance must be completed. Leaking equipment must not be used in or near surface water. Refuel equipment at least 100 feet from surface water.
- 4. Do not work within the channel during spring runoff or summer monsoon seasons. Local weather forecasts must be monitored to avoid working in high water. Releases from dams must be incorporated into the work schedule to avoid working in high water. Work in the stream channel should be limited to periods of no flow when practicable, and must be limited to periods of low flow.
- 5. Temporary crossings must be restricted to a single location and perpendicular to and at a narrow point of the channel to minimize disturbance. Heavy equipment must be operated from the bank or work platforms and not enter surface water when practicable. Heavy equipment must not be parked within

the stream channel. Heavy equipment that is operated from within flowing water must be appropriate for such work and properly maintained.

- 6. Flowing water must be temporarily diverted around the work area, but remain within the existing channel to minimize erosion and turbidity and to provide for aquatic life movement. Diversion structures must be non-erodible, such as sand bags, water bladders, concrete barriers, or channel lined with geotextile or plastic sheeting. Dirt cofferdams are not acceptable diversion structures. Diversion structures must be capable of carrying anticipated stream flows during the construction period. All man-made materials must be removed from the diversion channel and water returned to the original channel in a manner that avoids or minimizes turbidity. Temporary diversion channels must be backfilled in a manner that prevents erosion and diversion of the stream from its natural channel.
- 7. Any asphalt, concrete, or other construction materials must be properly handled and contained to prevent releases to surface water. Poured concrete must be fully contained in mortar-tight forms and/or placed behind non-erodible cofferdams to prevent releases to surface water or ground water. Appropriate measures must be used to prevent wastewater from concrete batching, vehicle washdown, or aggregate processing entering the watercourse. Dumping of waste materials near watercourses is strictly prohibited.
- 8. Work or the use of heavy equipment in wetlands must be avoided or minimized unless the impacts are
- 9. In-channel structures must be properly designed, installed and maintained to allow passage of sediment, bedload, and woody debris, and to prevent erosion problems or diversion of the stream from its natural channel.
- 10. All areas adjacent to the watercourse that are disturbed because of the project, including temporary access roads, stockpiles and staging areas, must be restored to pre-project elevations. Disturbed areas outside the channel that are not otherwise physically protected from erosion must be reseeded or planted with native vegetation. Stabilization measures including vegetation are required at the earliest practicable date, but by the end of first full growing season following construction. Native woody riparian and/or wetland species must be used in areas that support such vegetation. Plantings must be monitored and replaced for an overall survival rate of at least 80 percent. Once established, native plants adapted to the site must be able to thrive with no supplemental water or treatment.
- 11. You are required to submit an annual monitoring report documenting the monitoring discussed below for a period of not-less-than five years.
- a. You shall take photographs of not less than ten locations adjacent to structures installed to determine the efficacy of the structure. Include the project's largest structures, especially those that cross the entire stream channel. The same locations shall be photographed annually and displayed in the monitoring report. Changes shall be prominently noted, both in the report text and annotated in the photo captions.
- b. You shall include a discussion of peak flows during spring and monsoon peak events, the installed structures' response to high flows, and the progress of post-construction stabilization, including the revegetation success. This discussion should be cumulative from year to year to enable the reader to obtain an overall understanding of the structures' efficacy since installation.
- 12. A copy of this Section 401 Water Quality Certification must be kept at the project site during all phases of construction. All contractors involved in the project must be provided a copy of this certification and made aware of the conditions prior to starting construction.

- 13. The SWOB must be notified at least five days before starting construction to allow time to schedule monitoring or inspections.
- 14. Report all spills immediately to the NMED as required by the New Mexico Water Quality Control Commission regulations (20.6.2.1203 NMAC). For non-emergencies during normal business hours, call 505-428-2500. For non-emergencies after hours, call 866-428-6535 or 505-428-6535 (voice mail, twenty-four hours a day). For emergencies only, call 505-827-9329 twenty-four hours a day (New Mexico Department of Public Safety).

Violations of State of New Mexico water quality standards could lead to penalties under the New Mexico Water Quality Act. Section 74-6-10.1 B of the Act states, "Any person who violates any provision of the New Mexico Water Quality Act other than Section 74-6-5 NMSA 1978 or any person who violates any regulation, water quality standard, or compliance order adopted pursuant to that act shall be assessed civil penalties up to the amount of ten thousand dollars (\$10,000) per day for each violation."

The SWQB specifically reserves the right to amend or revoke this conditional Section 401 Certification at any time to ensure compliance with the State of New Mexico water quality standards. If you have any questions regarding this Section 401 Water Quality Certification, please feel free to contact Neal Schaeffer of my staff at (505) 476-3017. Thank you for your cooperation.

Glenn Saums, Acting Chief Surface Water Quality Bureau

GS: cns

xc: NMED District II Manager, Santa Fe Deanna Cummings, U.S. Army Corps of Engineers Tom Nystrom, Wetlands, Region 6, USEPA Jill Wick, New Mexico Department of Game and Fish Brian Millsap, U.S. Fish and Wildlife Service 401 Certification File SF-507

william j. miller

William J. Miller Engineers, Inc. 1511 Third St., Santa Fe, NM 87505

PERMITS

City of Santa Fe SANTA FE RIVER FLOOD DAMAGE REPAIR Ricardo Bridge to Don Jose Storm Drain Outfall

Project Number: 19060 Checked By: 17 of 17 June 28, 2019