

# SOUTHERN SANDOVAL COUNTY ARROYO FLOOD CONTROL AUTHORITY

## BLACK ARROYO WILDLIFE PARK LITTLE BRIDGE ABUTMENT & ARROYO STABILIZATION BLACK ARROYO WATERSHED



**Southern Sandoval  
County  
Arroyo Flood Control  
Authority**  
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Rio Rancho, New Mexico 87124  
505-892-RAIN (7246)  
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**VICINITY MAP**

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### APPROVALS

SSCAFCA: \_\_\_\_\_ EXECUTIVE ENGINEER

DATE: 12/11/2023

CITY OF RIO RANCHO: \_\_\_\_\_ DEVELOPMENT SERVICES DEPARTMENT

DATE: 12/11/2023

BLACK ARROYO WILDLIFE PARK  
LITTLE BRIDGE ABUTMENT &  
ARROYO STABILIZATION

COVER SHEET &  
SHEET INDEX

THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45  
DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

REVISIONS & CHANGE NOTICES		
MARK	DESCRIPTION	DATE

PROJECT NO: BL\_P0038-09  
DESIGNED BY: JN  
DRAWN BY: KLF  
CHECKED BY: AES  
DATE: 10/25/2023

GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH 1) THE PROJECT CONSTRUCTION PLANS, 2) THE PROJECT SPECIFICATIONS, AND 3) NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, APWA NM CHARTER, LATEST EDITION, IN THAT ORDER OF PRECEDENCE AT THE TIME OF CONSTRUCTION BID.
2. THE CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
3. NO MODIFICATIONS TO THESE PLANS SHALL BE MADE WITHOUT THE WRITTEN CONSENT OF THE OWNER, ENGINEER AND ALL APPROVAL SIGNATORIES. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION METHODS OR TECHNIQUES OR FOR THE PROSECUTION OF THE WORK AS SHOWN ON THESE PLANS. THE ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS OR OTHER PERSONS PERFORMING ANY WORK, AS SHOWN IN THE PROJECT CONTRACT DOCUMENTS.
4. UNLESS OTHERWISE PROVIDED AS PART OF THE CONSTRUCTION PLANS, A COMPLETE TRAFFIC CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR WHEN ANY PORTION OF THE WORK IMPACTS THE TRAVELING PUBLIC, EITHER VEHICULAR OR PEDESTRIAN. ALL CONSTRUCTION SIGNING, BARRICADING AND CHANNELIZATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (MUTCD), LATEST EDITION. THE PLAN SHALL BE SUBMITTED TO THE APPROPRIATE JURISDICTIONAL AUTHORITY FOR APPROVAL AT LEAST 7 DAYS PRIOR TO THE DESIRED START OF CONSTRUCTION. THE CONTRACTOR SHALL NOT IMPLEMENT THE TRAFFIC CONTROL PLAN UNTIL APPROVAL OF THE PLAN HAS BEEN RECEIVED.
5. THE CONTRACTOR SHALL DESIGNATE AT LEAST ONE EMERGENCY CONTACT PERSON, AND SHALL PROVIDE TELEPHONE NUMBERS WHERE THIS PERSON CAN BE CONTACTED AT ANY TIME. THIS INFORMATION SHALL BE PROVIDED TO THE OWNER.
6. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL JURISDICTIONAL AUTHORITIES PRIOR TO START OF CONSTRUCTION.
7. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY, HEALTH, AND ENVIRONMENTAL PROTECTION.
8. EXISTING SITE IMPROVEMENTS WHICH ARE DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE. THE WORK SHALL BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION OF THE REPAIRS. REPAIRS MUST BE ACCEPTED BY THE OWNER PRIOR TO FINAL PAYMENT.
9. THE CONTRACTOR SHALL ONLY UTILIZE THE DESIGNATED STAGING AREAS FOR STORAGE OF ALL EQUIPMENT AND MATERIALS. THE OWNER ASSUMES NO RESPONSIBILITY OR LIABILITY FOR CONTRACTOR'S EQUIPMENT AND MATERIAL IN THE STAGING AREA. SECURITY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. IF NO STAGING AREA IS DESIGNATED ON THESE PLANS, AN OFF-SITE STAGING AREA SHALL BE PROVIDED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE, OR THE CONTRACTOR MAY NEGOTIATE WITH THE OWNER TO USE AN ON-SITE AREA.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING, IN ADVANCE OF HIS/HER CONSTRUCTION OPERATIONS, IF OVERHEAD UTILITY LINES, SUPPORT STRUCTURES, POLES, GUYS, ETC., ARE AN OBSTRUCTION TO CONSTRUCTION OPERATIONS. IF ANY OBSTRUCTION IS EVIDENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY OWNER TO REMOVE OR SUPPORT THE UTILITY OBSTRUCTION. ANY COSTS ASSOCIATED WITH THIS EFFORT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
11. FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH ACTUAL VERTICAL AND HORIZONTAL CONTROLS ON THE CONSTRUCTION DOCUMENTS, ARE SHOWN APPROXIMATE AND IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION PROVIDED BY VARIOUS OWNERS OF THE FACILITIES, AND SUPPLEMENTED BY VISUAL SURFACE INFORMATION WHERE APPROPRIATE. ACCURACY, LOCATION, AND COMPLETENESS OF THIS INFORMATION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD BE VERIFIED, BY ANY MEANS NECESSARY, PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE OWNER AT 505-892-7246 IMMEDIATELY.
12. IT IS MANDATORY THAT A PRE-CONSTRUCTION MEETING BE HELD PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE OWNER AT 505-892-7246 TO DETERMINE THE TIME AND LOCATION OF THE PRE-CONSTRUCTION MEETING.
13. AT THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT A DETAILED CONSTRUCTION SCHEDULE TO THE OWNER.
14. ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE OWNER AND/OR ALL WORK AND MATERIALS NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
15. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS AND TAKE WHATEVER MEASURES ARE NECESSARY TO ENSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST-FREE CONDITION AT ALL TIMES.
16. THE CONTRACTOR SHALL CONTACT NEW MEXICO ONE CALL AT 811 OR 1-800-321-2537, FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION FOR UTILITY SPOTS IN ACCORDANCE WITH APPLICABLE STATE LAW.
17. CONTRACTOR WILL NOTIFY THE OWNER AT 505-892-7246 A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF WORK.
18. THE CONTRACTOR SHALL CONFINE HIS WORK TO WITHIN THE CONSTRUCTION LIMITS AND/OR PUBLIC RIGHTS-OF-WAY TO PRESERVE EXISTING VEGETATION, LANDSCAPING, AND PRIVATE PROPERTY. APPROVAL OF THESE PLANS DOES NOT GIVE OR IMPLY ANY PERMISSION TO TRESPASS OR WORK ON PRIVATE PROPERTY. PERMISSION MUST BE GRANTED IN WRITING BY THE OWNER OF THAT PROPERTY.
19. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO KEEP THE JOB SITE FREE FROM TRASH ON A DAILY BASIS, AND ALL MATERIALS WILL BE NEATLY ORGANIZED. TRASH AND/OR NON-USED MATERIALS SHALL NOT BE BURIED ON-SITE.
20. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES SO AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
21. CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING UTILIZING APPROVED CONSTRUCTION PLANS, THE APPROPRIATE RIGHT-OF-WAY MAPS AND RECORDED PLATS, EACH REVISION TO THE PLANS SHALL BE RECORDED IN THE PLAN REVISION BLOCK. PLANS SHALL INCLUDE LOCATION MAP WITH LEGAL DESCRIPTION AND LOCATION GRID.
22. THE CONTRACTOR SHALL MAINTAIN AN UP TO DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THE FINAL AS-BUILT PLANS, REFLECTING ANY AND ALL CHANGES TO THE ORIGINAL PLAN, SHALL BE SUBMITTED TO THE OWNER PRIOR TO FINAL PAYMENT.
23. THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION ACTIVITIES, PERMITTING, AND SUBMITTALS ARE IN ACCORDANCE WITH THE SSCAFCA AND/OR JURISDICTIONAL AUTHORITY ORDINANCES.

GENERAL NOTES (CONTINUED)

- 24. NO WORK SHALL BE PERFORMED IN A FEMA FLOODPLAIN WITHOUT WRITTEN AUTHORIZATION FROM THE LOCAL FLOODPLAIN MANAGER.
25. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF HIS WORK FROM STORMWATER FLOWS AS OUTLINED IN THE SUPPLEMENTAL TECHNICAL SPECIFICATIONS PROVIDED IN THE CONTRACT DOCUMENTS.
26. UNLESS OTHERWISE SPECIFIED, ALL CONCRETE SHALL BE A MINIMUM OF 3,000 PSI.
27. IF APPLICABLE, THE CONTRACTOR SHALL COMPLY WITH ALL CONSTRUCTION RELATED REQUIREMENTS OF THE PROJECT'S CORP OF ENGINEERS 404 PERMIT. COPIES OF THE PERMIT TERMS MAY BE OBTAINED FROM THE OWNER.
28. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING CONSTRUCTION NOISE AND HOURS OF OPERATION.
29. CONTRACTOR SHALL PROVIDE ANY NEEDED TRAFFIC CONTROL SIGNAGE/EQUIPMENT/BARRICADES TO CLOSE TRAIL FROM PEDESTRIAN USAGE. COST SHALL BE INCIDENTAL TO THE COST OF THE PROJECT.

EROSION CONTROL / ENVIRONMENTAL PROTECTION / STORMWATER POLLUTION PREVENTION PLAN

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULFILLING ALL NECESSARY NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, OBTAINING AN NPDES PERMIT BEFORE CONSTRUCTION, FILLING OUT THE NOTICE OF INTENT (NOI) APPLICATION, FILLING OUT THE NOTICE OF TERMINATION (NOT) APPLICATION, AND ANY OTHER REQUIREMENTS SET FORTH IN NTC - STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND NOTICE OF INTENT. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE IMPLEMENTATION OF AND INSPECTION REPORTS FOR THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL SUBMIT THE SWPPP WITH THE PROPOSED CONSTRUCTION STAGING AREA AND TEMPORARY SANITARY FACILITIES CLEARLY SHOWN. ANY CHECK DAMS, SILT FENCES, OR OTHER BEST MANAGEMENT PRACTICES (BMP) THAT ARE REQUIRED IN THE APPROVED SWPPP SHALL BE CONSIDERED AS INCLUDED IN ITEM 603281 SWPPP PLAN PREPARATION AND MAINTENANCE, AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
2. THE CONTRACTOR IS REQUIRED TO KEEP A CURRENT COPY OF THE SWPPP AT THE CONSTRUCTION SITE OR AT AN EASILY ACCESSIBLE LOCATION SO THAT IT CAN BE MADE AVAILABLE AT THE TIME OF AN ONSITE INSPECTION OR UPON REQUEST BY THE EPA; A STATE, TRIBAL, OR LOCAL AGENCY APPROVING STORM WATER MANAGEMENT PLANS; THE OPERATOR OF A STORM SEWER SYSTEM RECEIVING DISCHARGES FROM THE SITE; OR REPRESENTATIVES OF THE U.S. FISH AND WILDLIFE SERVICE (USFWS) OR THE NATIONAL MARINE FISHERIES SERVICE (NMFS).
3. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL DUST AND EROSION CONTROL REGULATIONS. THE CONTRACTOR SHALL PREPARE AND OBTAIN ANY NECESSARY DUST OR EROSION CONTROL PERMITS FROM THE REGULATORY AGENCIES.
4. THE CONTRACTOR SHALL EITHER PROMPTLY REMOVE ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR INSTALL BMPS ACCORDING TO NPDES REQUIREMENTS TO PREVENT DISCHARGE OF EXCAVATED MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY DURING A RAIN OR WIND EVENT. ALL COSTS FOR THESE REQUIREMENTS SHALL BE CONSIDERED AS INCLUDED IN ITEM 603281 SWPPP PLAN PREPARATION AND MAINTENANCE, AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
5. THE CONTRACTOR SHALL IMPLEMENT THE APPROVED SWPPP AND ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
6. THE CONTRACTOR SHALL MITIGATE EROSION OF TEMPORARY OR PERMANENT DIRT SWALES BY INSTALLING BMPS IDENTIFIED IN THE APPROVED SWPPP IN THE SWALES PERPENDICULAR TO THE DIRECTION OF FLOW, AND AT INTERVALS AS SPECIFIED IN THE SWPPP.
7. CONSTRUCTION AREAS SHALL BE WATERED FOR DUST CONTROL IN COMPLIANCE WITH GOVERNMENT ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SUPPLYING WATER AS REQUIRED. WATERING, AS REQUIRED FOR CONSTRUCTION AND DUST CONTROL, SHALL BE CONSIDERED AS INCLUDED IN ITEM 603281 SWPPP PLAN PREPARATION AND MAINTENANCE, AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
8. ANY AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY LANDSCAPING OR AN IMPERVIOUS SURFACE SHALL BE RE-VEGETATED WITH NATIVE GRASS SEEDING. WHEN CONSTRUCTION ACTIVITIES CEASE AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME WITHIN 14 DAYS, STABILIZATION MEASURES MUST BE INITIATED. UNLESS INDICATED OTHERWISE ON THESE PLANS OR ON THE LANDSCAPING PLAN, NATIVE GRASS SEEDING SHALL BE IN ACCORDANCE WITH SECTION 1012 OF THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, APWA NM CHAPTER, CURRENT EDITION.
9. ALL WASTE PRODUCTS FROM THE CONSTRUCTION SITE, INCLUDING CONSTRUCTION WASTE, CONSTRUCTION EQUIPMENT WASTE PRODUCTS (OIL, GAS, TIRES, ETC.) GARBAGE, GRUBBING, EXCESS CUT MATERIAL, VEGETATIVE DEBRIS, ETC. SHALL BE APPROPRIATELY DISPOSED OF OFFSITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMITS REQUIRED TO HAUL OR DISPOSE OF WASTE PRODUCTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE WASTE DISPOSAL SITE COMPLIES WITH GOVERNMENT REGULATIONS REGARDING THE ENVIRONMENT, ENDANGERED SPECIES, AND ARCHAEOLOGICAL RESOURCES. THIS WORK IS CONSIDERED AS INCLUDED IN ITEM 603281 SWPPP PLAN PREPARATION AND MAINTENANCE, AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP AND REPORTING OF SPILLS OF HAZARDOUS MATERIALS ASSOCIATED WITH THE CONSTRUCTION SITE. HAZARDOUS MATERIALS INCLUDE GASOLINE, DIESEL FUEL, MOTOR OIL, SOLVENTS, CHEMICALS, PAINTS, ETC THAT MAY BE A THREAT TO THE ENVIRONMENT. THE CONTRACTOR SHALL REPORT THE DISCOVERY OF PAST OR PRESENT SPILLS TO THE NEW MEXICO ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE TEAM AT (505) 827-9329.
11. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING SURFACE AND UNDERGROUND WATER. CONTACT WITH SURFACE WATER BY CONSTRUCTION EQUIPMENT AND PERSONNEL SHALL BE MINIMIZED. EQUIPMENT MAINTENANCE AND REFUELING OPERATIONS SHALL BE PERFORMED IN AN ENVIRONMENTALLY SAFE MANNER IN COMPLIANCE WITH GOVERNMENT REGULATIONS.
12. WHERE STORM INLETS ARE SUSCEPTIBLE TO INFLOW OF SILT OR DEBRIS FROM CONSTRUCTION ACTIVITIES, PROTECTION SHALL BE PROVIDED ON THEIR UPSTREAM SIDE UTILIZING BMPS ACCORDING TO NPDES REQUIREMENTS. ALL COSTS FOR THESE REQUIREMENTS ARE CONSIDERED AS INCLUDED IN ITEM 603281 SWPPP PLAN PREPARATION AND MAINTENANCE, AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
13. STORM WATER POLLUTION PREVENTION PLANS (SWPPP) AND ACCOMPANYING FEDERAL EPA ADMINISTRATIVE PROCEDURES SHALL MEET THE CITY OF RIO RANCHO GUIDELINES AND PROCEDURES OUTLINED IN THE CURRENT EDITION OF THE NMDOT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM MANUAL - STORM WATER MANAGEMENT GUIDELINES FOR CONSTRUCTION, MS4, AND INDUSTRIAL ACTIVITIES.

EROSION CONTROL / ENVIRONMENTAL PROTECTION / STORMWATER POLLUTION PREVENTION PLAN (CONTINUED)

- 14. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD BEFORE ENTERING PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS AND TAKE WHATEVER MEASURES ARE NECESSARY TO ENSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST-FREE CONDITION AT ALL TIMES.
15. NO WORK MAY BEGIN IN AN ARROYO OR OTHER DRAINAGE WAY UNTIL AUTHORIZATION HAS BEEN PROVIDED BY THE U.S. ARMY CORP. OF ENGINEERS, SOUTHERN SANDOVAL COUNTY ARROYO FLOOD CONTROL AUTHORITY (SSCAFCA) AND/OR THE CITY OF RIO RANCHO FLOOD PLAN MANAGER.

SOILS

- 1. UNLESS OTHERWISE SPECIFIED SUBGRADE SOILS AND STRUCTURAL FILL MATERIALS SHALL BE COMPACTED TO THE FOLLOWING PERCENTAGES OF THE ASTM D-1557 MAXIMUM DENSITY.

Table with 2 columns: MATERIALS and PERCENT (%). Rows include STRUCTURAL FILL IN THE BUILDING AREA (95), SUB BASE FOR SLAB SUPPORT (95), MISCELLANEOUS BACKFILL BELOW STRUCTURAL FILL OR ROAD (95), MISCELLANEOUS BACKFILL BELOW UNPAVED, NON-BUILDING AREAS (90), ROAD SUB GRADE (95), SIDEWALK / TRAIL SUB GRADE (95), CURB AND GUTTER SUBGRADE (95).

- 2. AT ALL FINAL GRADES, WITH THE EXCEPTION OF AREAS WITH IMPROVEMENTS, SHALL BE DISKED OR RIPPED TO A DEPTH OF 12" TO FACILITATE PLANT GROWTH.

UTILITY COMPANY CONTACTS

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ABBREVIATIONS

Table with 2 columns: Abbreviation and Full Name. Includes AP (ANALYSIS POINT), AT (BEGIN CURVE), BCR (BEGIN CURB RETURN), BK (BOOK), BLDG (BUILDING), BM (BENCH MARK), BOA (BEGINNING OF ALIGNMENT), BOP (BEGINNING OF PROJECT), BVC (BEGIN VERTICAL CURVE), BW (BASE OF WALL), CATV (CABLE TV LINE), CB (CATCH BASIN), CF (CURB FACE), CFS (CUBIC FEET PER SECOND), CG (CURB AND GUTTER), CLF (CHAIN LINK FENCE), C (CENTERLINE), CMP (CORRUGATED METAL PIPE), CO (CLEAN OUT), CONC (CONCRETE), CORR (CITY OF RIO RANCHO), CP (CONTROL POINT), CY (CUBIC YARDS), DUE (DRAINAGE UTILITY EASEMENT), DI (DROP INLET), DIA (DIAMETER), DELTA (DELTA), EA (EACH), EC (END CURVE), ECR (END CURB RETURN), ELEV (ELEVATION), EOA (END OF ALIGNMENT), EOP (END OF PROJECT), EP (EDGE OF PAVEMENT), EST (EASEMENT), ESTM (ESTIMATE), EVC (END VERTICAL CURVE), EW (EACH WAY), EXIST (EXISTING), FF (FINISH FLOOR), FG (FINISH GRADE), FH (FIRE HYDRANT), FL (FLOW LINE), FOC (FACE OF CURB), FPS (FINISHED PAD), G (FEET PER SECOND), GAS (GAS), GM (GAS METER), GV (GATE VALVE), HORIZ (HORIZONTAL), INT (INTERSECTION), INV (INVERT), INV EL (INVERT ELEVATION), LF (LINEAR FEET), LP (LIGHT POLE), L (LEFT), MH (MANHOLE), MID (MID-POINT), NG (NATURAL GROUND), OC (ON CENTER), OHE (OVER HEAD ELECTRIC), PB (PULL BOX), PC (POINT OF CURVATURE), PCC (POINT OF COMPOUND CURVATURE), PG (PAGE), PGL (PROFILE GRADE LINE), PI (POINT OF INTERSECTION), PL (PROPERTY LINE), PRC (POINT OF REVERSE CURVATURE), PT (POINT OF TANGENCY), PUE (PUBLIC UTILITY EASEMENT), PVC (POLYVINYL CHLORIDE PIPE), PVMT (PAVEMENT), Q (100 YEAR PEAK DISCHARGE), QTY (QUANTITY), RAD (RADIUS), RCP (REINFORCED CONCRETE PIPE), RD (ROOF DRAIN), REF (REFERENCE), RP (RADIUS POINT), RT (RIGHT), R/W,ROW (RIGHT-OF-WAY), S (SLOPE), SAS, SS (SANITARY SEWER LINE), SD (STORM DRAIN), SF (SQUARE FEET), STA (STATION), STD (STANDARD), SW (SIDEWALK), SY (SQUARE YARDS), T (TANGENT), TA (TOP OF ASPHALT), TAC (TOP OF ASPHALT CURB), TBC (TOP BACK OF CURB), TC (TOP OF CONCRETE), TEL (TELEPHONE LINE, RISER OR BOX), TP (TOP OF PIPE), TRANS (TRANSVERSE), TW (TOP OF WALL), TYP (TYPICAL), UE (UNDERGROUND ELECTRICAL LINE), UT (UNDERGROUND TELEPHONE LINE), V (VERTICAL), VC (VELOCITY), VERT (VERTICAL CURVE), VPI (VERTICAL POINT OF INTERSECTION), WL (WATER LINE), WM (WATER METER), WQ (WATER QUALITY), WSEL (WATER SURFACE ELEVATION), WV (WATER VALVE).



Southern Sandoval County Arroyo Flood Control Authority

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BLACK ARROYO WILDLIFE PARK
LITTLE BRIDGE ABUTMENT &
ARROYO STABILIZATION

GENERAL NOTES

THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

Table with 3 columns: MARK, DESCRIPTION, DATE. Includes a header row for REVISIONS & CHANGE NOTICES.

PROJECT NO: BL\_P0038-09
DESIGNED BY: JN
DRAWN BY: KLF
CHECKED BY: AES
DATE: 10/30/2023

**Legal Description**

A PORTION OF TRACT A-1-A OF THE SUMMARY PLAT AND VACATION OF RIGHTS-OF-WAY, SSCAFCA BLACK ARROYO WILDLIFE PARK, BLOCK 33, RIO RANCHO ESTATES, UNIT 10, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT THEREOF, RECORDED IN THE OFFICE OF THE COUNTY CLERK OF SANDOVAL COUNTY, NEW MEXICO, ON MARCH 9, 2020, IN VOL. 3, FOL. 4513 (RRE BK. 29, PG. 89-90).

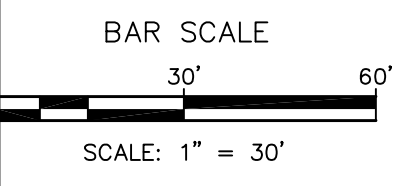
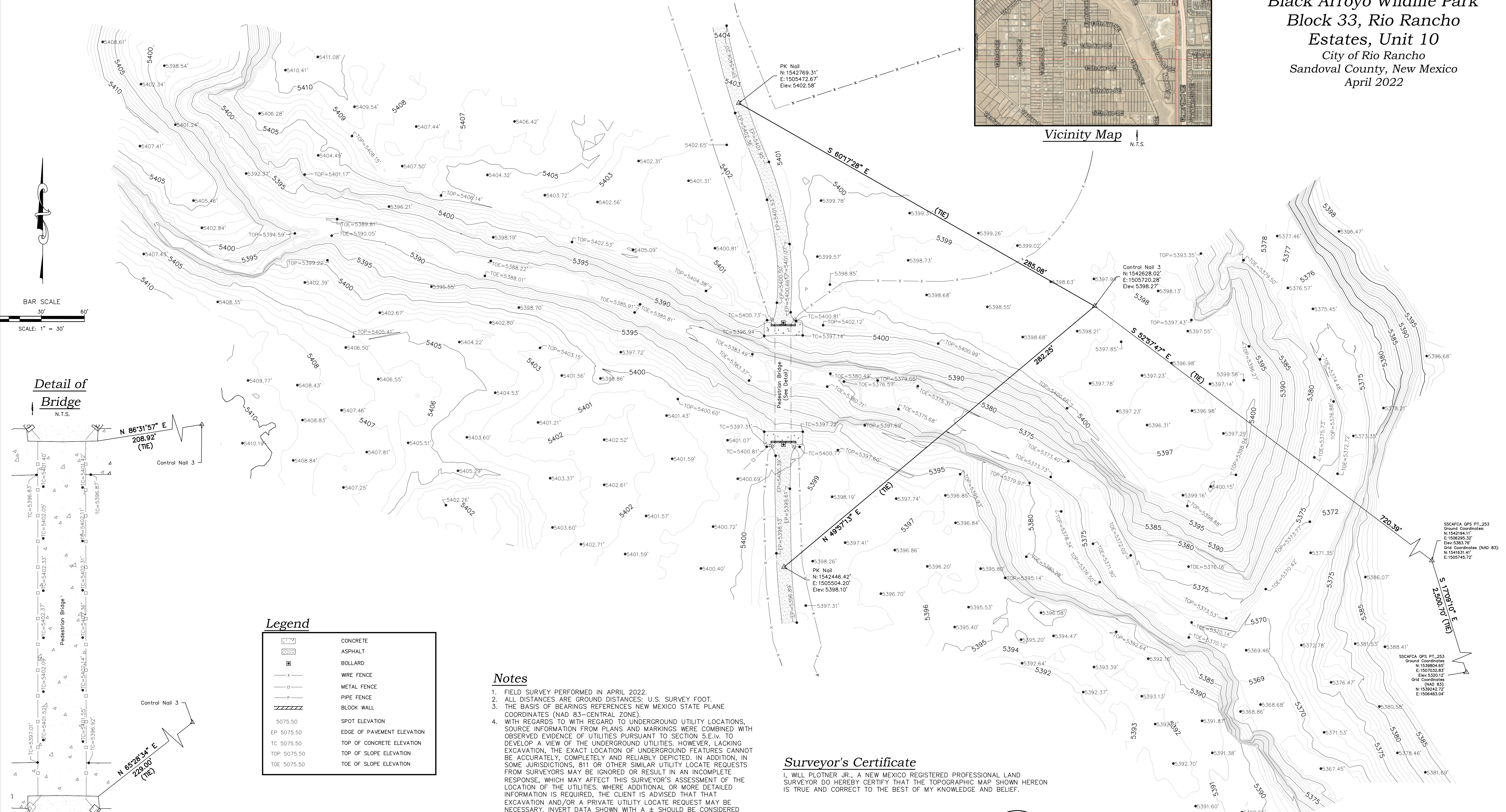
**Benchmark -NAVD 88**

THE BENCHMARK ELEVATIONS SHOWN HEREON ARE BASED UPON THE FOLLOWING MONUMENT:  
SSCAFCA CONTROL "BLACKS ARROYO GPS PT\_253" WITH A PUBLISHED ELEVATION OF 5,383.76 FEET.

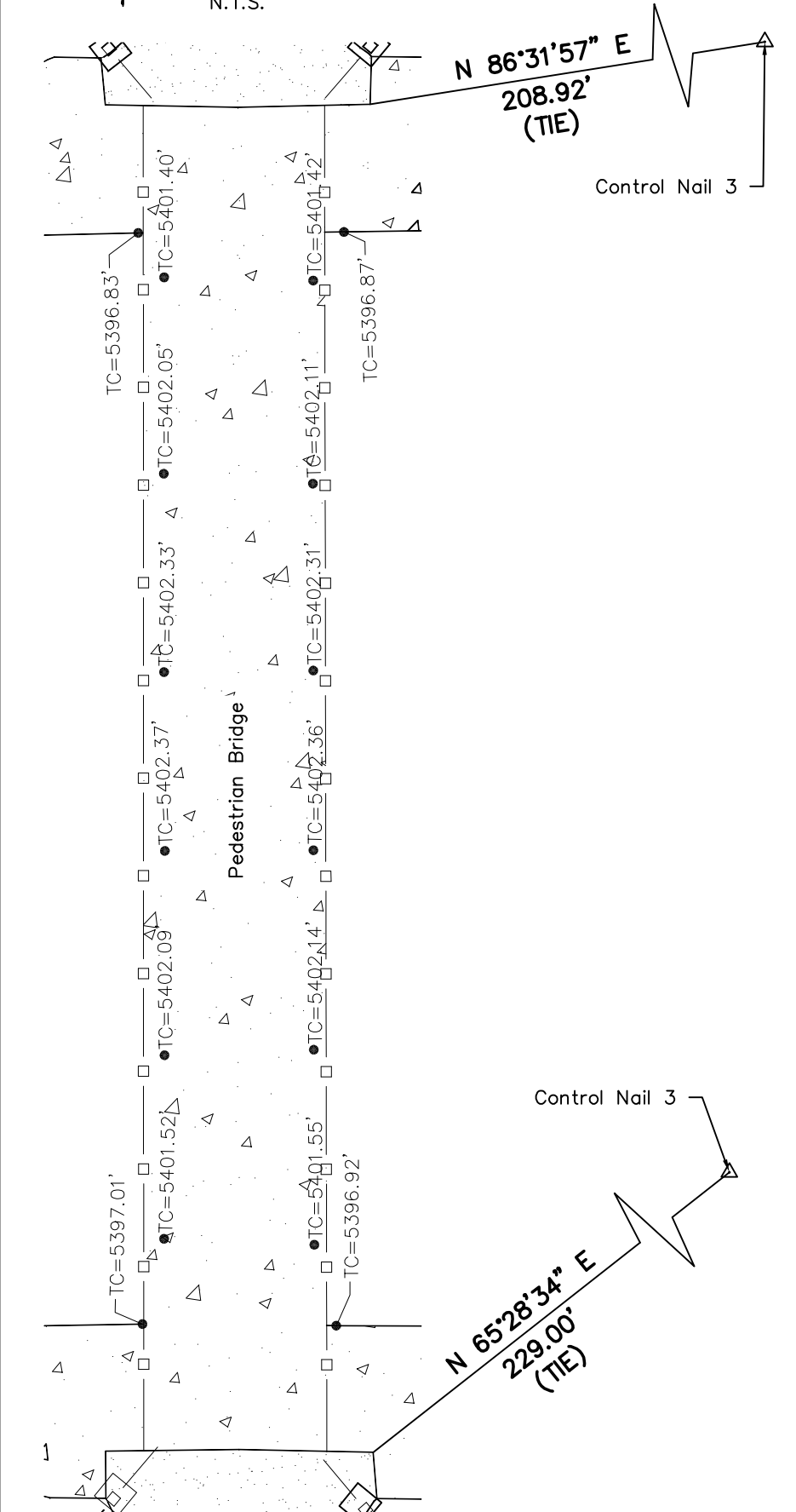
**Topographic Map**  
for  
**Portion of Tract A-1-A**  
**SSCAFCA**  
**Black Arroyo Wildlife Park**  
**Block 33, Rio Rancho**  
**Estates, Unit 10**  
City of Rio Rancho  
Sandoval County, New Mexico  
April 2022



Vicinity Map  
N.T.S.



**Detail of Bridge**  
N.T.S.



**Legend**

	CONCRETE
	ASPHALT
	BOLLARD
	WIRE FENCE
	METAL FENCE
	PIPE FENCE
	BLOCK WALL
5075.50	SPOT ELEVATION
EP 5075.50	EDGE OF PAVEMENT ELEVATION
TC 5075.50	TOP OF CONCRETE ELEVATION
TOP 5075.50	TOP OF SLOPE ELEVATION
TOE 5075.50	TOE OF SLOPE ELEVATION

**Notes**

1. FIELD SURVEY PERFORMED IN APRIL 2022.
2. ALL DISTANCES ARE GROUND DISTANCES: U.S. SURVEY FOOT.
3. THE BASIS OF BEARINGS REFERENCES NEW MEXICO STATE PLANE COORDINATES (NAD 83-CENTRAL ZONE).
4. WITH REGARDS TO WITH REGARD TO UNDERGROUND UTILITY LOCATIONS, SOURCE INFORMATION FROM PLANS AND MARKINGS WERE COMBINED WITH OBSERVED EVIDENCE OF UTILITIES PURSUANT TO SECTION S.E.I.v. TO DEVELOP A VIEW OF THE UNDERGROUND UTILITIES. HOWEVER, LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. IN ADDITION, IN SOME JURISDICTIONS, 811 OR OTHER SIMILAR UTILITY LOCATE REQUESTS FROM SURVEYORS MAY BE IGNORED OR RESULT IN AN INCOMPLETE RESPONSE, WHICH MAY AFFECT THIS SURVEYOR'S ASSESSMENT OF THE LOCATION OF THE UTILITIES. WHERE ADDITIONAL OR MORE DETAILED INFORMATION IS REQUIRED, THE CLIENT IS ADVISED THAT THAT EXCAVATION AND/OR A PRIVATE UTILITY LOCATE REQUEST MAY BE NECESSARY. INVERT DATA SHOWN WITH A ± SHOULD BE CONSIDERED TAKEN FROM AS-BUILTS. (NMB11 TICKET NO. 22MA240401)
5. THE COORDINATES SHOWN HEREON REFERENCE MODIFIED NEW MEXICO STATE PLANE COORDINATES (NAD 83-GROUND-CENTRAL ZONE), USING A GROUND TO GRID FACTOR OF 0.99963513, WITH AN ORIGIN OF (0,0).

**Surveyor's Certificate**

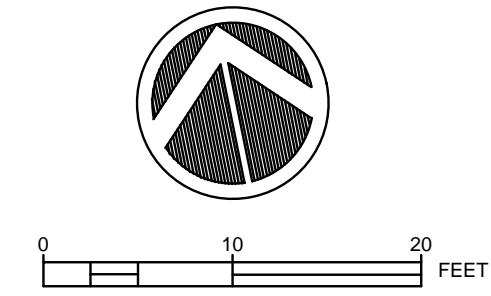
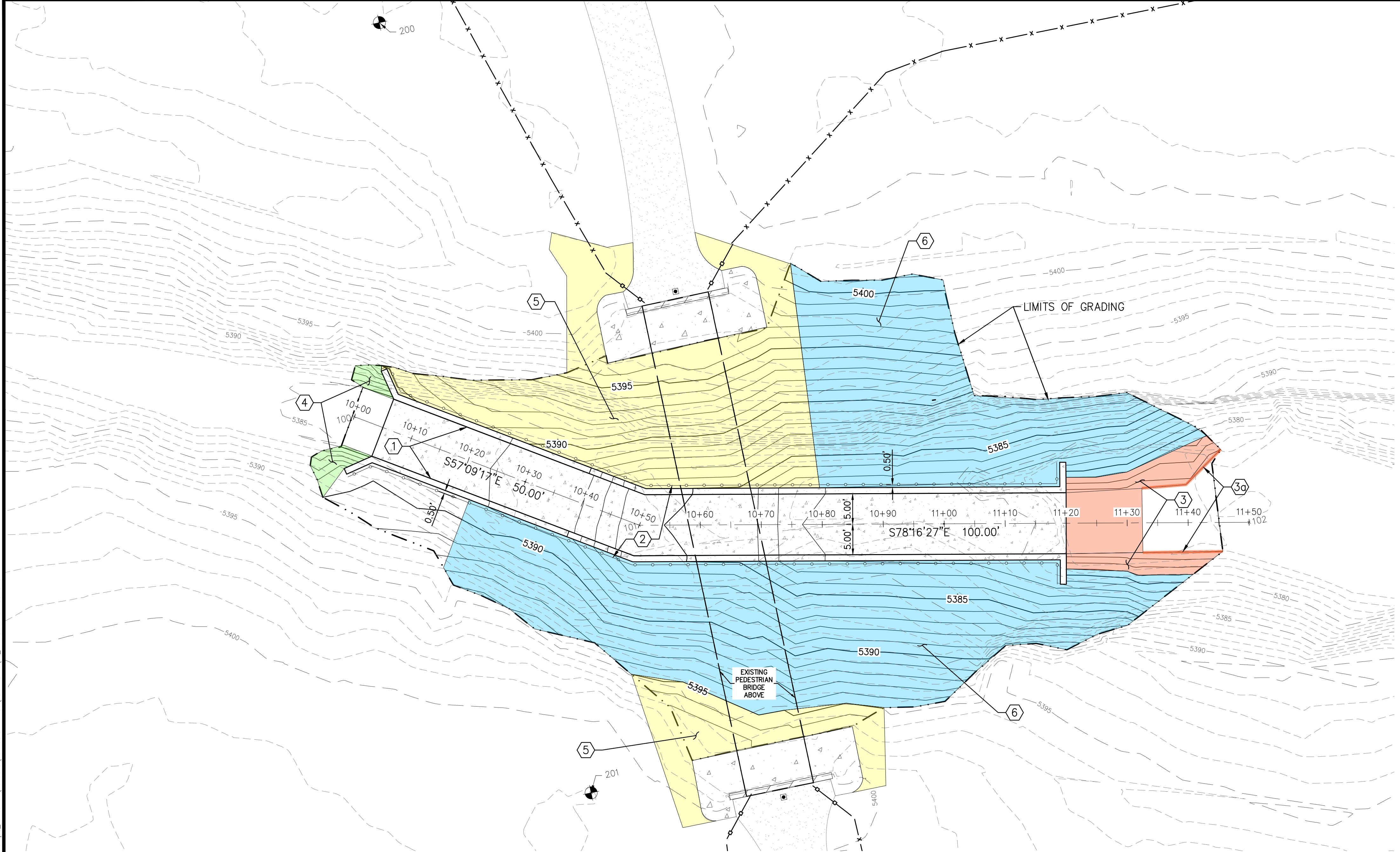
I, WILL PLOTNER JR., A NEW MEXICO REGISTERED PROFESSIONAL LAND SURVEYOR DO HEREBY CERTIFY THAT THE TOPOGRAPHIC MAP SHOWN HEREON IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Will Plotner Jr.*  
Will Plotner Jr.  
N.M.R.P.S. No. 14271  
4/21/2022  
Date



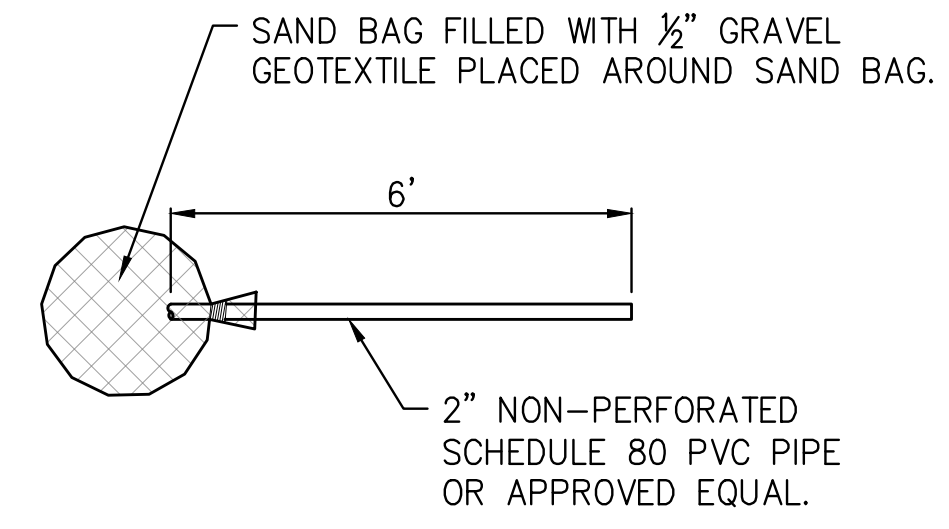
**CSI-CARTESIAN SURVEYS INC.**  
P.O. BOX 44414 RIO RANCHO, N.M. 87174  
Phone (505) 896-3050 Fax (505) 891-0244  
wplotnerjr@gmail.com  
Sheet 1 of 1  
220539

Monday, November 6, 2023 1:08:14 PM - KFOURNER  
 C:\USERS\KFOURNER\ONE DRIVE - SOUTHERN SANDOVAL COUNTY ARROYO FLOOD CONTROL AUTHORITY\SSCAFCA\_PROJECT\_FILES\BLACK\BL\_P0038-09\AUTOCAD\SOURCE DRAWINGS\ALIGNMENTS\BL\_P0038-09-C-ALIGN.DWG

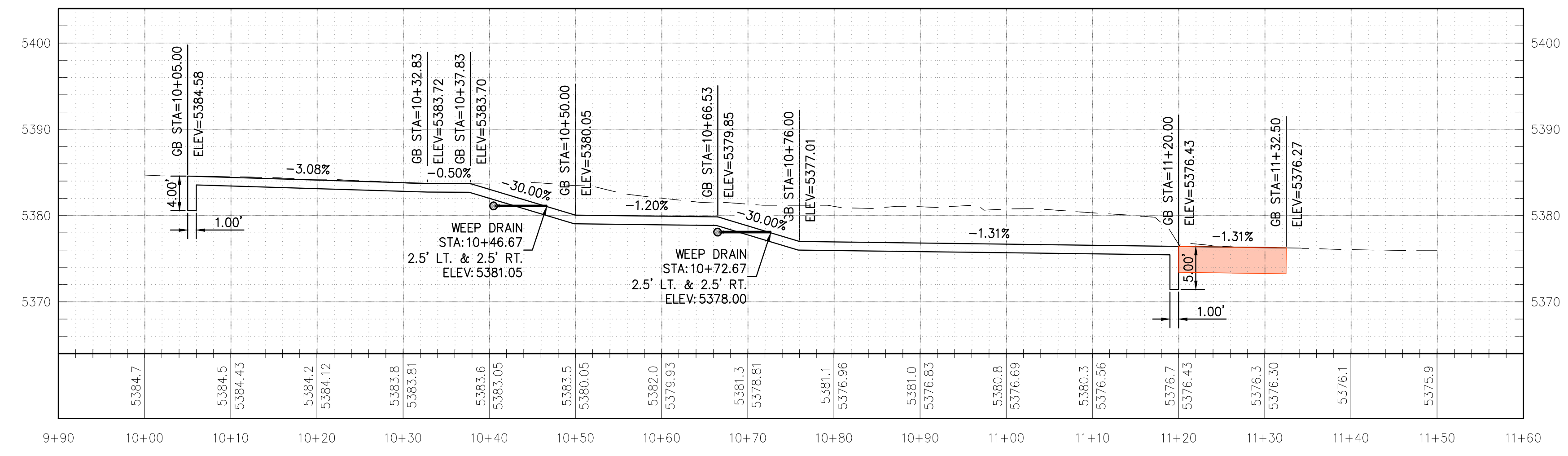


- LEGEND**
- REINFORCED CONCRETE CHANNEL
  - RIPRAP TYPE H
  - RIPRAP TYPE M
  - RIPRAP TYPE VL
  - 2"-4" CRUSHED ROCK
  - CABLE FENCE
  - LIMITS OF GRADING

- KEYED NOTES:**
1. RECTANGULAR REINFORCED CONCRETE CHANNEL TINTED DAVIS COLORS SAN DIEGO BUFF OR APPROVED EQUAL. CUTOFF WALL BELOW THE CHANNEL AND ALL WING WALLS TO BE PROVIDED AS WELL AS WEEP HOLES AT LOCATIONS SPECIFIED BELOW. CUTOFF WALL AND WEEP HOLES INCIDENTAL TO REINFORCED CONCRETE CHANNEL. CHANNEL WALL HEIGHT VARIES. SEE SHEET 7.
  2. CABLE FENCE PER SSCAFCA STANDARD DRAWING M104.
  3. PLACE RIPRAP TYPE H, 3' DEEP, INCLUDING GEOTEXTILE. TOP OF RIPRAP FLUSH TO FINISHED GRADE. 3a. EXTEND RIPRAP BELOW THE TOE OF THE SLOPE TO 3' VERTICAL DEPTH.
  4. PLACE RIPRAP TYPE M, 2' DEEP, INCLUDING GEOTEXTILE. TOP OF RIPRAP FLUSH TO FINISHED GRADE. EXTEND RIPRAP BELOW THE TOE OF SLOPE TO 2' VERTICAL DEPTH.
  5. PLACE RIPRAP TYPE VL, 1' DEEP, NO GEOTEXTILE.
  6. LINE WITH 2"-4" CRUSHED ROCK, 4" DEEP, NO GEOTEXTILE.



**WEEP DRAIN DETAIL**  
 PLACED 2.5' LT. & 2.5' RT. OF CL  
 STA. 10+46.67 & STA. 10+72.67, (4) TOTAL



CHANNEL POINT TABLE				
Point #	Northing	Easting	Elevation	Description
100	1542607.35	1505447.94	5384.97	CHNL - 10+00.00 - BOA
101	1542580.23	1505489.94	5380.05	CHNL - 10+50.00 - PI
102	1542559.91	1505587.86	5375.93	CHNL - 11+50.00 - EOA
200	1542669.72	1505465.37	5400.98	CP
201	1542538.95	1505473.09	5401.03	CP

**Southern Sandoval County Arroyo Flood Control Authority**  
 1041 Commercial Dr. S.E.  
 Rio Rancho, New Mexico 87124  
 505-892-RAIN (7246)  
 505-892-7241 (Fax)  
[www.sscafca.com](http://www.sscafca.com)

JUNKO NISHIDA  
 NEW MEXICO  
 24552  
 PROFESSIONAL ENGINEER

**BLACK ARROYO WILDLIFE PARK  
 LITTLE BRIDGE ABUTMENT &  
 ARROYO STABILIZATION**

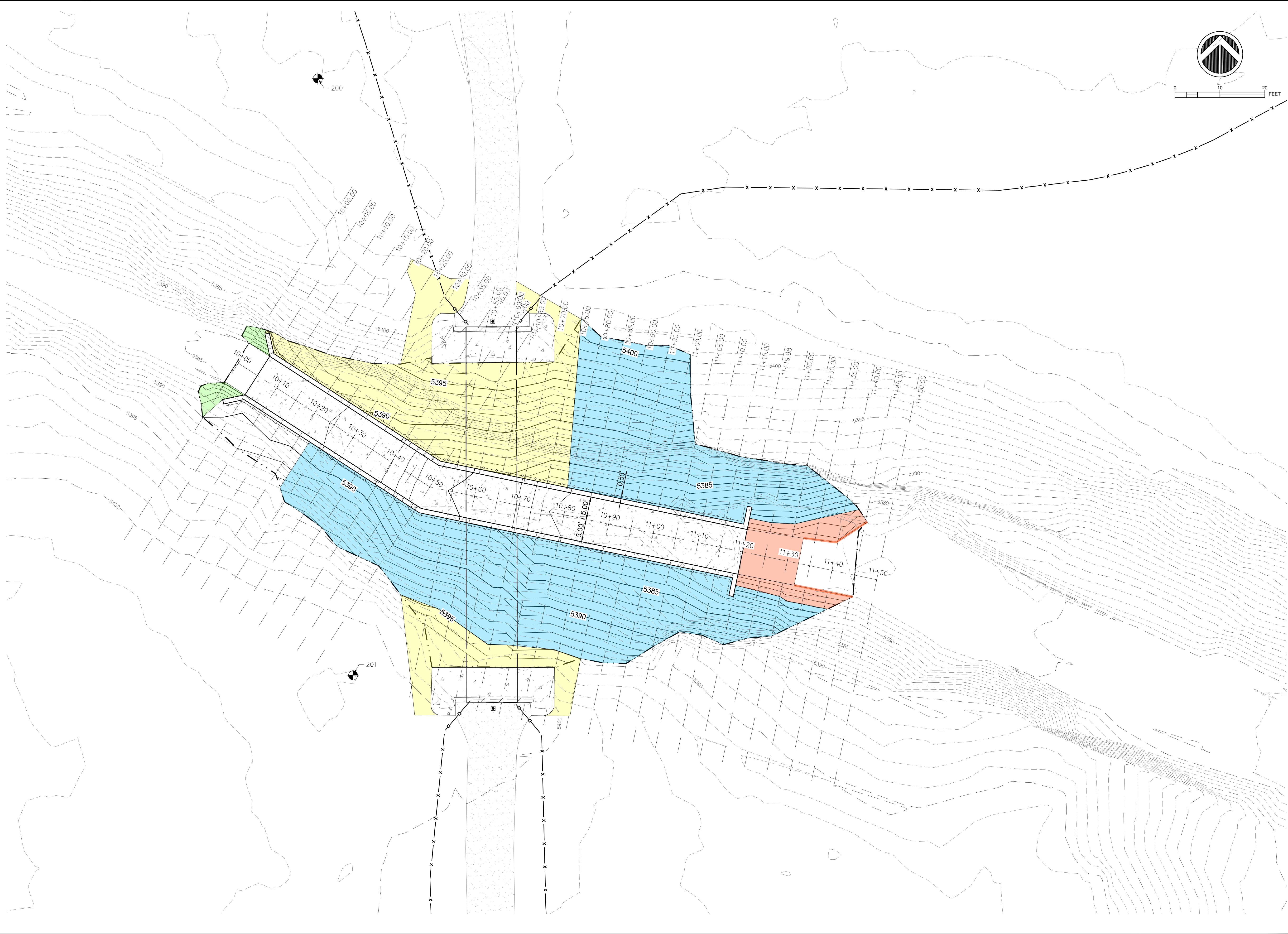
**PLAN & PROFILE STA. 10+00 TO 11+50**

THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

REVISIONS & CHANGE NOTICES		
MARK	DESCRIPTION	DATE

PROJECT NO: BL\_P0038-09  
 DESIGNED BY: JN  
 DRAWN BY: KLF  
 CHECKED BY: AES  
 DATE: 11/6/2023

Monday, October 30, 2023 1:50:42 PM - KFOURNIER  
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**Southern Sandoval  
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**BLACK ARROYO WILDLIFE PARK &  
 LITTLE BRIDGE ABUTMENT &  
 ARROYO STABILIZATION**

**GRADING PLAN**

THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

REVISIONS & CHANGE NOTICES		
MARK	DESCRIPTION	DATE

PROJECT NO: BL\_P0038-09  
 DESIGNED BY: JN  
 DRAWN BY: KLF  
 CHECKED BY: AES  
 DATE: 10/30/2023

Monday, October 30, 2023 1:50:52 PM - KFOURNIER  
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EACH GRID SQUARE EQUALS 2' HORIZ. & VERT.



**Southern Sandoval  
 County  
 Arroyo Flood Control  
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 Rio Rancho, New Mexico 87124  
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**BLACK ARROYO WILDLIFE PARK  
 LITTLE BRIDGE ABUTMENT &  
 ARROYO STABILIZATION**

**CROSS SECTIONS**

THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

REVISIONS & CHANGE NOTICES		
MARK	DESCRIPTION	DATE

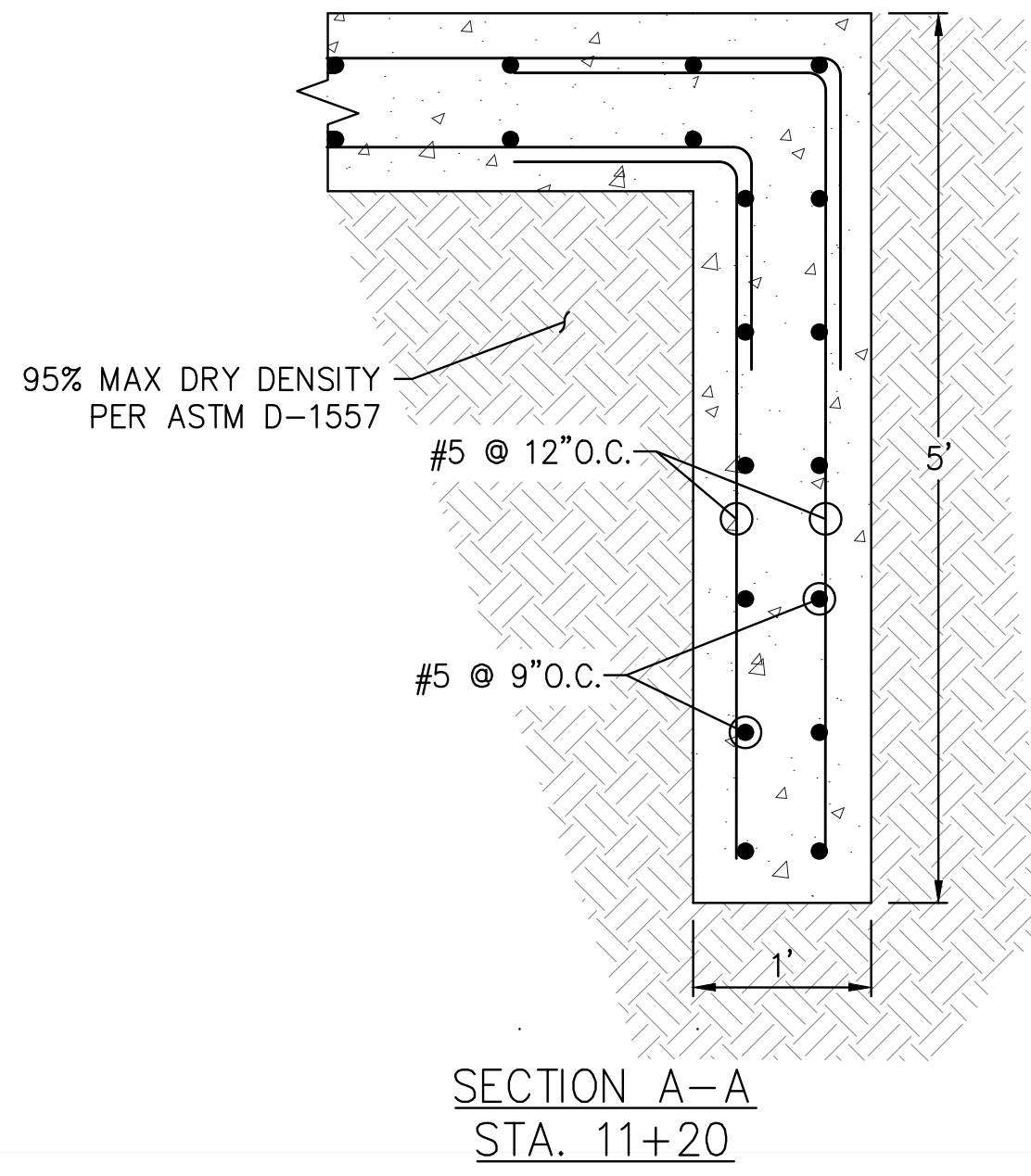
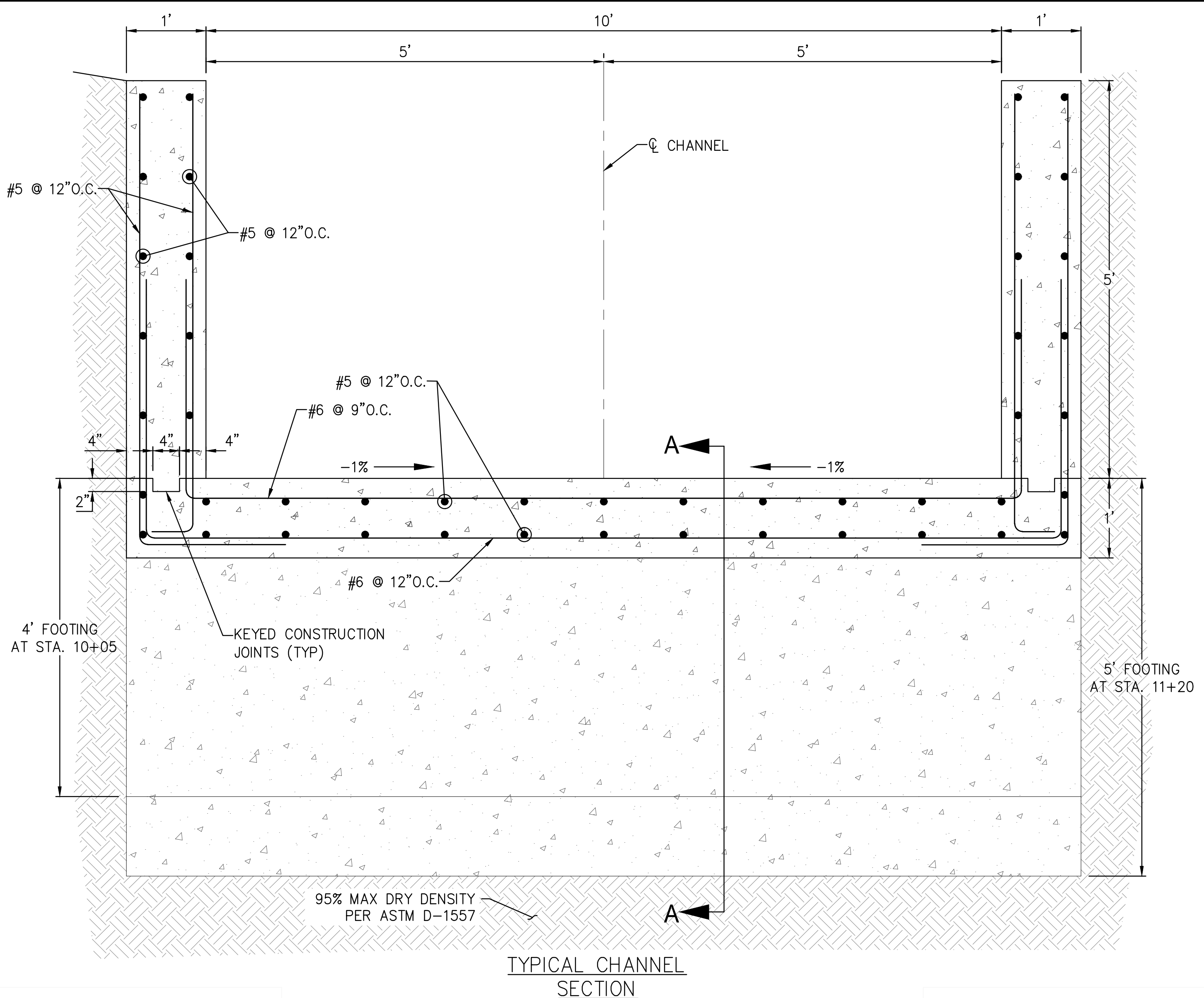
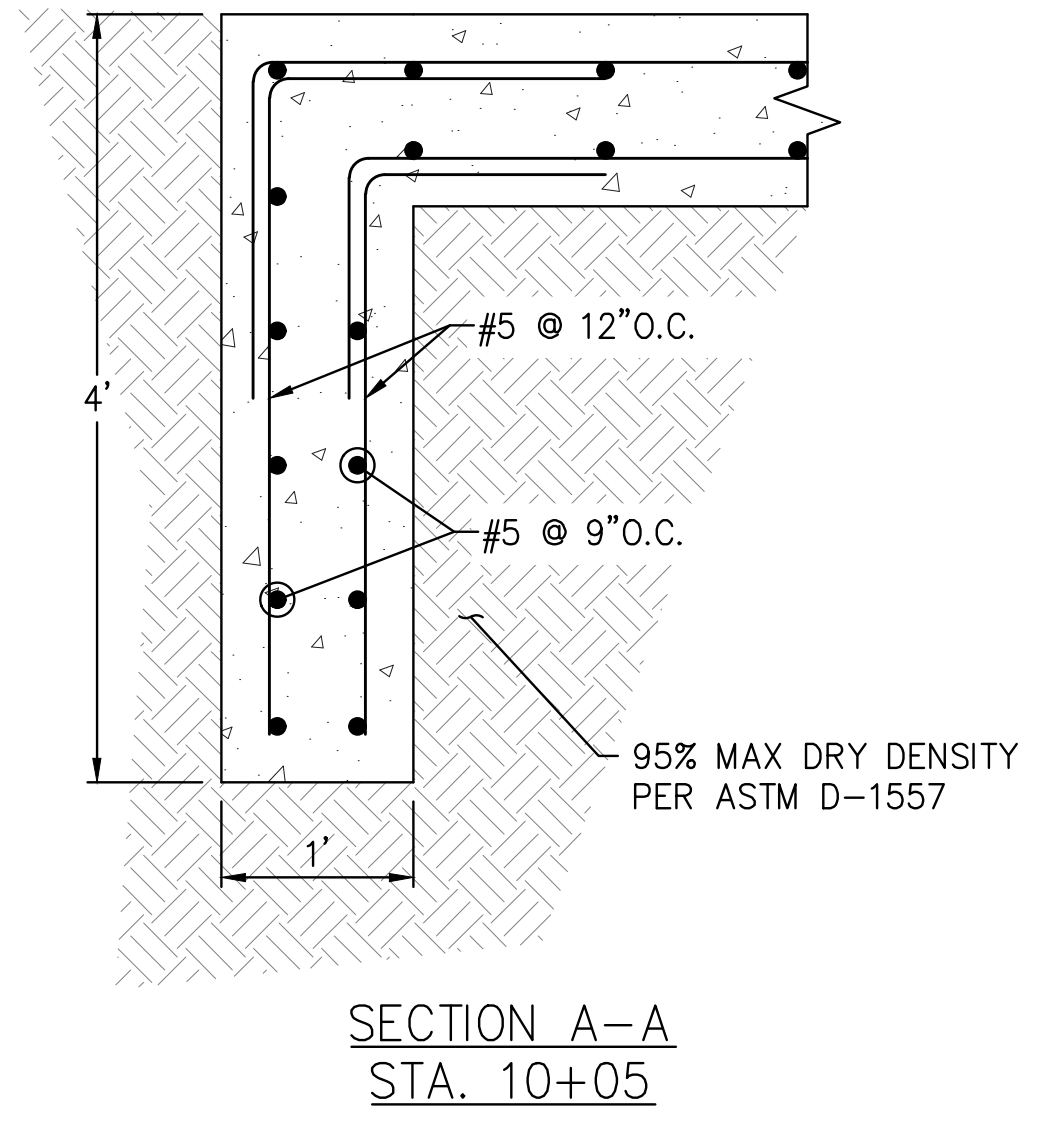
PROJECT NO: BL\_P0038-09  
 DESIGNED BY: JN  
 DRAWN BY: KLF  
 CHECKED BY: AES  
 DATE: 10/30/2023

**REINFORCED CONCRETE NOTES:**

1. CAST-IN-PLACE CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH  $f'_c=4000$  PSI MINIMUM.
2. ALL EXPOSED FORMED EDGES SHALL HAVE  $\frac{3}{4}$ " CHAMFER UNLESS OTHERWISE NOTED.
3. CHANNEL SUBGRADE PREPARATION TO A DEPTH OF 12", MUST ACHIEVE MAX. DRY DENSITY OF 95% PER ASTM D-1557
4. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. MINIMUM LAP LENGTHS FOR #5 AND #6 REBAR ARE NOTED IN TABLE SHEET 7.
5. CHANNEL CONCRETE BOTTOM SHALL HAVE A TINED FINISH, TINGING SHALL BE APPLIED TRANSVERSE TO FLOW.
6. CONTROL CONTRACTION JOINTS SHALL BE PLACED TO PROVIDE A STONE W/LENGTH NOT TO EXCEED 20'.
7. CONTROL JOINTS SHALL BE PLACED AT ALL GRADE BREAKS. SEE ARTICULATED JOINT DETAIL ON SHEET 7. ALL EXPOSED EXPANSION JOINTS & CONTROL JOINTS SHALL BE SEALED WITH NP1 (OR APPROVED EQUAL) ELASTOMERIC POLYURETHANE SEALANT.
8. HEIGHT OF WALL VARIES. SEE TABLE ON SHEET 7.
9. ALL CHANNEL CONCRETE SHALL BE TINTED DAVIS COLORS SAN DIEGO BUFF OR APPROVED EQUAL, 1LB. PER SACK OF CEMENT.

CONCRETE CHANNEL WALL HEIGHT TABLE		
BEGIN STA.	END STA.	WALL HEIGHT
10+05.00	10+37.83	7'
10+37.83	10+50.00	TRANSITION 7' TO 5'
10+50.00	11+20.00	5'

BAR SIZE	LAP SPLICE LENGTHS (IN.)	
	LENGTHS (IN.)	
	4000 PSI	
	TOP BARS	OTHER BARS
#5	40	31
#6	48	37



4" ARIAL BLACK TRUE TYPE FONT

2" ARIAL BLACK TRUE TYPE FONT

**Southern SANDOVAL COUNTY ARROYO FLOOD CONTROL Authority**

1 1/2" ARIAL BLACK TRUE TYPE FONT

3/4" PLYWOOD SIGN WITH WHITE BACKGROUND

3 1/2" ARIAL BLACK TRUE TYPE FONT

**SSCAFCA PROJECT NAME**

COST: \$X,XXX,XXX

START: MONTH, YEAR

END: MONTH, YEAR

FUNDS: AGENCY NAME

1 1/2" ARIAL BLACK TRUE TYPE FONT

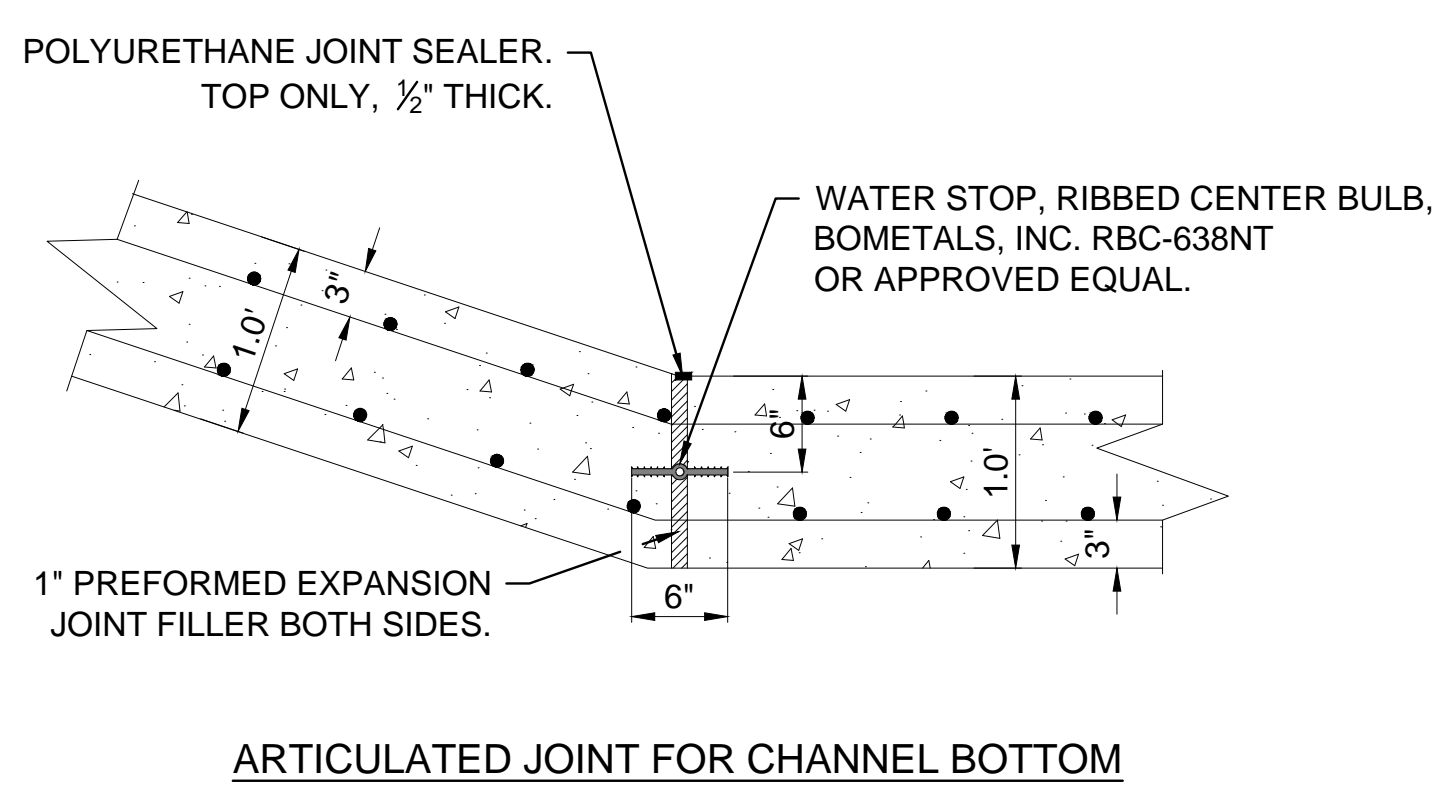
2" ARIAL BLACK TRUE TYPE FONT

Southern Sandoval County Arroyo Flood Control Authority

STANDARD DRAWING XM201

PROJECT CONSTRUCTION SIGN (4'X8')

June 15, 2023



**DETAIL OF FENCING FASTENING & BRACING**  
NTS

**CABLE FASTENER DETAIL**  
NTS

**SECTION A-A (PIGTAIL) (TYPICAL FOURTH POST)**  
NTS

**TYPICAL SECTION**  
NTS

**KEYED NOTES:**

1. 1/2" DIAMETER CABLE.
2. 3/4" DIAMETER HOLES FOR CABLE THRU CENTER OF POST. PROVIDE ADEQUATE TENSION IN THE CABLE TO MINIMIZE SAG BETWEEN SPANS.
3. LINE POST 2 3/8" O.D.
4. GATE, END AND CORNER POST 2 3/8" O.D.
5. DIAGONAL BRACE AT EVERY ANGLE POINT AND IN END SPANS 2 3/8" O.D. WELDED IN PLACE.
6. 2000 PSI (4 SACK CONC.) AT EVERY 4TH POST, EVERY ANGLE POINT, BRACE POINT AND AT ENDS.
7. CAPS ON ALL POSTS.
8. BOLT ASAE S276.4 REFLECTIVE SIGN TO CABLE, TACK WELD NUT TO THREADS, EVERY OTHER SPAN.

**GENERAL NOTES:**

- THERE SHOULD BE ENOUGH TENSION IN THE CABLE TO MINIMIZE SAG BETWEEN SPANS.

Southern Sandoval County Arroyo Flood Control Authority

STANDARD DRAWING M104

CABLE FENCE

February 10, 2023

**Southern Sandoval County Arroyo Flood Control Authority**

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JUNKO NISHIDA  
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**BLACK ARROYO WILDLIFE PARK  
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**GENERAL DETAILS**

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REVISIONS & CHANGE NOTICES		
MARK	DESCRIPTION	DATE

PROJECT NO: BL\_P0038-09  
DESIGNED BY: JN  
DRAWN BY: KLF  
CHECKED BY: AES  
DATE: 11/15/2023

Monday, December 4, 2023 8:46:15 AM - Kathy Fountain  
 C:\Users\Kmountain\OneDrive - Southern Sandoval County Arroyo Flood Control Authority\SSCAFCA\_Project\_Files\Book\IB\_P0038-09\AutoCAD\Production Drawings\Pipe\_Sets\IB\_P0038-09-C000.dwg