Appendix A

Construction Drawings



UPPER VENADA OFF-CHANNEL FACILITY CONSTRUCTION PLANS

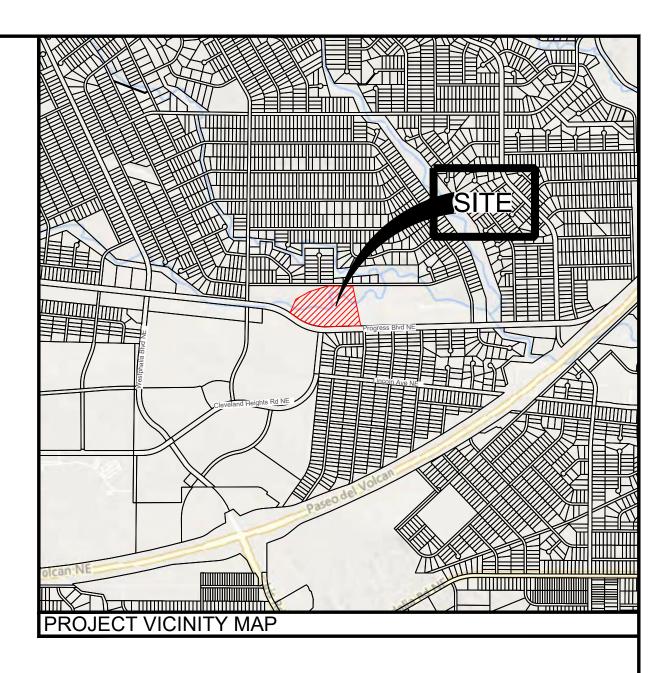


SOUTHERN SANDOVAL COUNTY ARROYO FLOOD CONTROL AUTHORITY RIO RANCHO, NEW MEXICO

MAY 2024

SSCAFCA PROJECT NO. VE-P0032-01

	SHEET LIST TABLE	C-501	MAINTENANCE ACCESS GATE
THEET ALLIA ADED		C-502	CABLE FENCE
SHEET NUMBER	SHEET TITLE	C-503	CHAIN LINK FENCE
GENERAL		C-504	RAILING DETAIL
j-100	COVER	C-505	FLEXAMAT PLUS- OUTLET ARMORING
i-101	SITE PLAN	C-506	FLEXAMAT PLUS- CHANNEL LAYOUT
i-102	GENERAL NOTES & LEGEND	C-507	PIPE BEDDING
G-103	SURVEY	C-508	SEWER MANHOLE COVER DETAIL
G-104	FENCING PLAN	C-509	STANDARD CONCRETE MANHOLE DETAIL 1
IVIL		C-510	STANDARD CONCRETE MANHOLE DETAIL 2
-100	GRADING PLAN	STRUCTURAL	
-101	OVER EXCAVATION PLAN	S-600	PORTED RISER GENERAL STRUCTURAL DETAILS
-102	ARMORING PLAN	S-601	PORTED RISER STRUCTURAL PLAN
-103	SECTION VIEW	S-602	PORTED RISER STRUCTURAL PROFILE
-104	ACCESS ROAD PLAN & PROFILE	S-603	PORTED RISER BOX DETAILS
-105	CHANNEL PLAN & PROFILE 1	S-604	PORTED RISER WALL DETAILS
-106	CHANNEL PLAN & PROFILE 2	S-605	PORTED RISER SIGNS AND ANCHORING
-107	INTAKE WEIR PLAN & PROFILE	S-606	PORTED RISER REBAR PROFILE
-108	EMERGENCY SPILLWAY PLAN & PROFILE	S-607	PORTED RISER REBAR PROFILE 2
-109	EMERGENCY SPILLWAY AND INTAKE WEIR PLAN & PROFILE	S-608	PORTED RISER JOINTING PLAN
-110	BOX CULVERT PLAN & PROFILE	S-609	NMDOT CBC TRIPLE OPENING DETAILS
-111	BOX CULVERT WINGWALLS PLAN & PROFILE	S-610	NMDOT CBC TRIPLE OPENING REBAR SCHEDULE
-112	PRINCIPAL SPILLWAY PLAN & PROFILE	S-611	NMDOT CBC HEADWALL DETAILS
-113	FLEXAMAT PLAN 1	S-612	NMDOT CBC HEADWALL REBAR SCHEDULE
-114	FLEXAMAT PLAN 2	S-613	NMDOT CBC WINGWALL & OUTLET APRON DETAIL 1
SENERAL DETAILS		S-614	NMDOT CBC WINGWALL & OUTLET APRON DETAIL 2
-500	FIVE STRAND WIRE FENCE		



APPROVAL

SSCAFCA:

EXECUTIVE ENGINEER

CITY OF RIO RANCHO:

DEVELOPMENT SERVICES DEPARTMENT





RESPEC

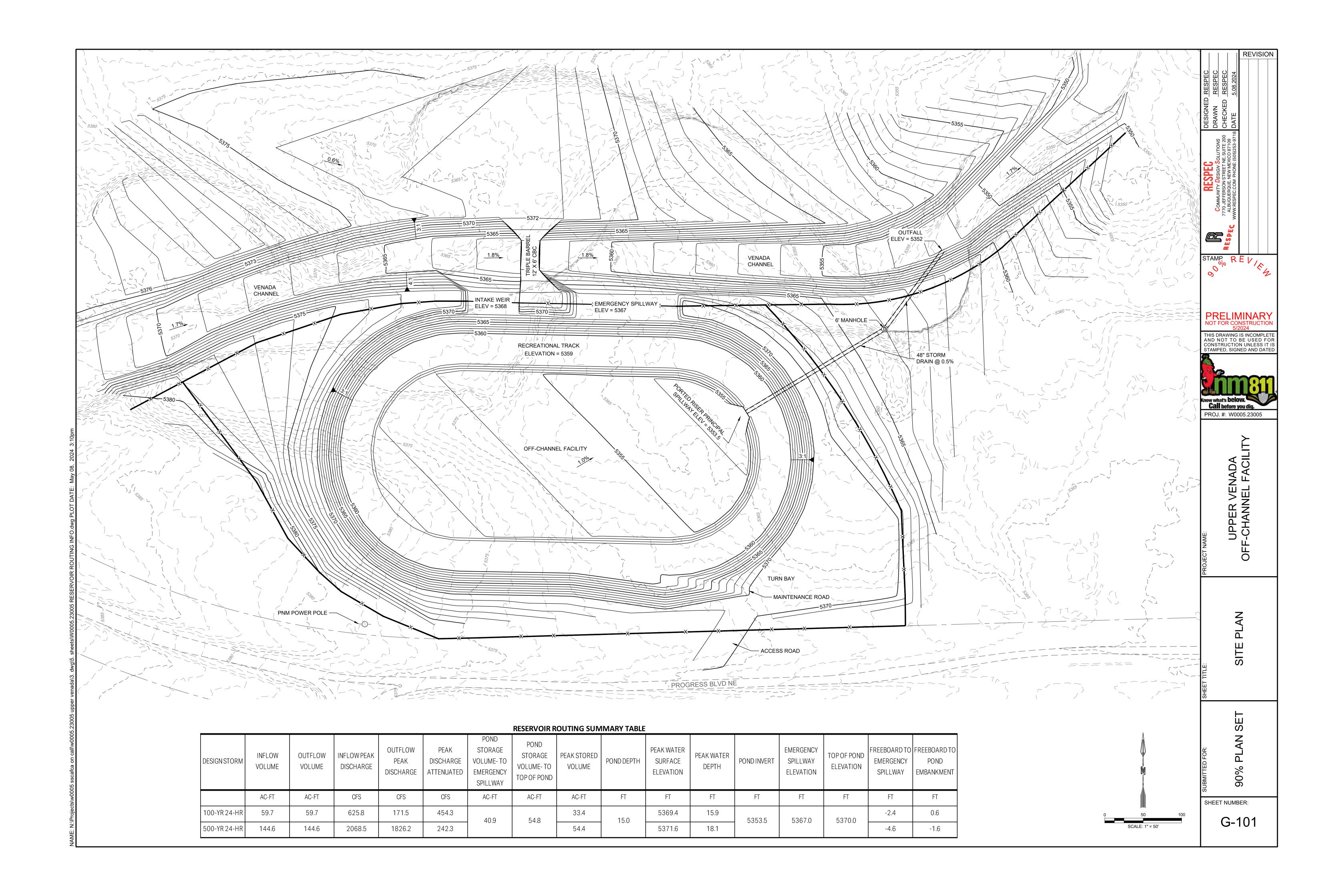
COMMUNITY DESIGN SOLUTIONS

7770 JEFFERSON STREET SUITE 200

ALBUQUERQUE, NEW MEXICO 87109

WWW.RESPEC.COM PHONE: (505) 253-9718

DATE:



GENERAL NOTES

- 1. THE SPECIFICATIONS FOR THIS PROJECT ARE LISTED BELOW AND ARE IDENTIFIED IN ALL BUILD/PAY NOTES AS APPLICABLE. ALL SPECIFICATIONS MUST BE ONSITE THROUGHOUT PROJECT.
- A. SOUTHERN SANDOVAL COUNTY ARROYO FLOOD CONTROL AUTHORITY STANDARD DRAWINGS.
- B. THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, LATEST EDITION UNLESS OTHERWISE NOTED ON PLANS: STD. SPEC. SECT
- C. THE NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS AND SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION: NMDOT STD. SPEC. SECT.
- D. THE SUPPLEMENTAL TECHNICAL SPECIFICATIONS: SUP. SPEC. SECT 1.
- E. THE CITY OF RIO RANCHO STANDARD SPECIFICATIONS.
- 2. THE CONTRACTOR WILL NOTIFY NEW MEXICO ONE CALL SYSTEM 811 TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK IN NEW AREAS
- S. FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A DETAILED CONSTRUCTION SCHEDULE TO THE OWNER, THE CONTRACTOR SHALL OBTAIN A HAUL PERMIT FROM THE CITY OF RIO RANCHO, HAUL PERMIT COSTS AND COORDINATION WITH THE CITY OF RIO RANCHO IS CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CITY OF RIO RANCHO TWO (2) DAYS PRIOR TO CONSTRUCTION.
- 4. THE CONTRACTOR WILL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS, INCLUDING, BUT NOT LIMITED TO HAZARDOUS WASTE AT DISPOSAL SITES APPROVED BY GOVERNMENTAL AGENCIES REGULATING THE DISPOSAL OF SUCH MATERIALS.
- 5. ALL SIGNS AND CODING WILL BE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" CURRENT EDITION PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION.
- 6. THE CONTRACTOR IS TO EXERCISE CARE TO AVOID DISTURBING ANY EXISTING UNDERGROUND UTILITIES. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE UTILITY COMPANIES IN ORDER TO PREVENT ANY SERVICE DISRUPTION.
- 7. WHEN ABUTTING NEW PAVEMENT TO EXISTING INTERSECTING STREETS OR PATHS, SAW CUT EXISTING PAVEMENT TO A STRAIGHT LINE AND AT RIGHT ANGLES AND REMOVE ANY BROKEN OR CRACKED PAVEMENT. NO DIRECT PAYMENT WILL BE MADE FOR SAWCUTTING.
- 8. ALL GAS VALVES, GAS MANHOLES, ELECTRICAL MANHOLES, TELEPHONE MANHOLES, AND UTILITY POLES WILL BE ADJUSTED TO GRADE BY EACH UTILITY COMPANY. CONTRACTOR SHALL COORDINATE THIS EFFORT WITH THE UTILITY COMPANIES
- 9. THE CONTRACTOR WILL COORDINATE THE CONSTRUCTION ACTIVITIES WITH ALL OTHER CONTRACTORS AND UTILITY COMPANIES WORKING IN THE SAME AREA. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE THEIR ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCE CAUSED BY UTILITY COMPANY WORK CREWS.
- 10. CONTRACTOR WILL MAKE ALL WATER VALVES AND MANHOLES ACCESSIBLE TO CITY OF RIO RANCHO AT ALL TIMES.
- 11. PRIOR TO CONSTRUCTION THE CONTRACTOR WILL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL CONFLICTING UTILITIES. SHOULD A CONFLICT EXIST BETWEEN THE FIELD INFORMATION AND THE PLANS, THE CONTRACTOR WILL NOTIFY THE OWNER'S PROJECT MANAGER SO THE CONFLICT CAN BE RESOLVED WITH MINIMUM DELAY
- 12. ALL CONSTRUCTION EASEMENTS ON PRIVATE PROPERTY WILL BE OBTAINED BY THE OWNER PRIOR TO THE BEGINNING OF CONSTRUCTION.
- 13. CONTRACTOR WILL CONFINE HIS WORK WITHIN THE CONSTRUCTION EASEMENT LIMITS AND/OR RIGHT-OF-WAY, OR PROVIDE COPIES OF AGREEMENTS WITH ADJACENT LANDOWNERS TO THE OWNER.
- 14. ALL WATER VALVES AND FIRE HYDRANTS REMOVED TO BE SALVAGED AND RETURNED TO THE CITY OF RIO RANCHO.
- 15. MINIMUM BOTTOM WIDTH OF TRENCHES FOR RIGID PIPE SHALL BE EQUAL TO THE OUTSIDE DIAMETER PLUS 16 INCHES. BEDDING MATERIAL SHALL BE CLASS II, III, OR IV UNLESS OTHERWISE SPECIFICALLY NOTED ON THE PLANS.
- 16. THE CONTRACTOR AGREES TO TAKE NECESSARY SAFETY PRECAUTIONS AS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES TO PROTECT PEDESTRIAN AND VEHICULAR TRAFFIC IN THE CONSTRUCTION AREA, WHICH WILL INCLUDE BUT ARE NOT LIMITED TO: MAINTAINING ADEQUATE WARNING SIGNS, BARRICADES, LIGHTS, GUARD FENCES, WALKS AND BRIDGES.
- 17. ALL STRUCTURAL CONCRETE TO BE 4,000 PSI UNLESS OTHERWISE NOTED ON PLANS.
- 18. ALL REINFORCING STEEL TO BE GRADE 60 UNLESS OTHERWISE NOTED ON PLANS.
- ALL EXPOSED EDGES ON CAST-IN-PLACE CONCRETE STRUCTURES WILL HAVE A 1" CHAMFER UNLESS OTHERWISE NOTED ON PLANS.
- 20. ALL SPLICES IN REINFORCING STEEL TO BE IN COMPLIANCE WITH SPLICE TABLE PROVIDED IN STRUCTURAL DETAILS.
- 21. ALL NEW STREET PAVING, DRIVEWAYS, SIDEWALKS, AND CURB AND GUTTERS, ABUTTING EXISTING AREAS SHALL MATCH THE ELEVATION OF THOSE AREAS.
- 22. ALL EXCAVATED MATERIAL THAT IS NOT REQUIRED TO BE REUSED MUST BE REMOVED FROM THE PROJECT AREA WITHIN FOUR DAYS OF EXCAVATION. SPOIL PILES WILL BE ALLOWED ONLY AS DIRECTED BY THE OWNER'S PROJECT MANAGER OR AS INDICATED ON THE PLANS. IN THE EVENT OF EXCESS MATERIAL AT SEDIMENT STOCK PILE LOCATIONS: COORDINATE WITH AND PROVIDE SSCAFCA PROJECT MANAGER 48-HOURS PRIOR NOTICE FOR HAULING SEDIMENT.
- 23. ALL TRAFFIC CONTROL DEVICES REQUIRED FOR DRIVEWAY CLOSURES, UTILITY CONSTRUCTION OR FOR OTHER REASONS AND NOT SHOWN ON THE SIGNING PLANS WILL BE FURNISHED BY THE CONTRACTOR AND WILL BE PAID AS SPECIFIED IN THE TECHNICAL

SPECIFICATIONS AND BID PROPOSAL. PRIOR TO PLACING THE TRAFFIC CONTROL DEVICES, THE CONTRACTOR WILL NOTIFY THE AFFECTED OWNERS IN ACCORDANCE WITH THE SPECIFICATIONS.

- 24. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING NMDOT/CITY OF RIO RANCHO/SANDOVAL COUNTY/SSCAFCA/RIO RANCHO PUBLIC SCHOOLS AND PRIVATE LOTS INFRASTRUCTURE (C & G, PAVING, ETC.) DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS, WILL REPAIR OR REPLACE SAME AT HIS OWN EXPENSE. HE WILL SUITABLY PROTECT THE CURB AND GUTTER FROM INCIDENTAL SPLASHING DURING THE TACK COAT APPLICATION AND WILL BE RESPONSIBLE FOR CLEANING SAME AT HIS OWN COST, SHOULD SPLASHING OCCUR.
- 25. ALL UTILITY LINES WHICH ARE NOT SPECIFICALLY DESIGNATED TO BE REMOVED AND REPLACED ON THE PLANS, WILL BE MAINTAINED IN SERVICE. SHORING, SHEETING AND OTHER MEANS OF SUPPORT SHALL BE EMPLOYED BY THE CONTRACTOR TO PREVENT DAMAGE OR LOSS OF THESE EXISTING UTILITIES. MEAN AND CABLE OR OTHER ADEQUATE SUPPORTS WILL BE USED OR TEMPORARY SUPPORT OF ALL UTILITY LINES WHICH CROSS THE TRENCH. ANY DAMAGE TO EXISTING UTILITIES WILL PROMPTLY BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR WILL NOTIFY THE ENGINEER IMMEDIATELY OF ANY SIGNIFICANT DEVIATION OF EXPOSED UTILITIES FROM THE LOCATIONS SHOWN ON THE PLANS SO THAT CONFLICTS CAN BE RESOLVED IN A TIMELY MANNER.
- 26. ALL INTERFERING PORTIONS OF ABANDONED UTILITY LINES WHICH ARE EXPOSED AS A RESULT OF CONSTRUCTION WILL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- 27. THE CONTRACTOR WILL BE RESPONSIBLE FOR SECURING NPDES PERMITS AND OTHER PERMITS AS REQUIRED BY APPLICABLE CITY, COUNTY, STATE, AND FEDERAL REGULATIONS.
- 28. ALL RIPRAP MATERIAL USED ON THIS PROJECT SHALL BE A NATURAL ROCK MATERIAL CONFORMING TO THE SIZE AND MATERIAL PROPERTY REQUIREMENTS SET FORTH IN THE STANDARD SPECIFICATIONS. NO BROKEN CONCRETE OR RUBBLE WILL BE ACCEPTED.
- 29. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
- 30. FOR STORM DRAIN CONSTRUCTION, RCP PIPE OR ENGINEERED APPROVED JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.
- 31. ALL CONSTRUCTION SHALL REMAIN WITHIN SSCAFCA ROW AND TEMPORARY CONSTRUCTION EASEMENTS (TCE) OBTAINED BY SSCAFCA.
- 32. SSCAFCA SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY WORK WITHIN SSCAFCA ROW. TELEPHONE (505) 892-7246.
- 33. SSCAFCA SHALL BE NOTIFIED 48 HOURS PRIOR TO FINAL INSPECTION OF ANY FACILITIES WITHIN SSCAFCA ROW.
- 34. AREAS DESIGNATED ON PLANS SHALL BE REVEGETATED IN ACCORDANCE WITH APWA
- 35. STORM DRAINS TO BE BUILT WITH EITHER CLASS IV REINFORCED CONCRETE PIPE PER APWA SPECIFICATION 910 OR UPON APPROVAL FROM ENGINEER, A HIGH DENSITY POLYETHYLENE PIPE MAY BE BUILT. PLAN DETAILS SUCH AS SPACING FOR REBAR AND THICKNESS OF CONCRETE MAY CHANGE BASED ON PIPE WALL THICKNESS, SEE STRUCTURAL DETAILS. VERIFY WITH ENGINEER.
- 36. CONTRACTOR SHALL USE THE NMAPWA SPECIFICATIONS 109 & 603 FOR RIPRAP STONE GRADATION AND GRAVEL FILTER MATERIAL ASSOCIATED WITH ALL CONSTRUCTION OF "PLUNGE POOLS AND STILLING BASINS". GRADATIONS ARE SHOWN ON THIS SHEET.
- 37. CONTRACTOR WILL BE RESPONSIBLE TO RESEED ANY ADDITIONAL AREA DISTURBED OUTSIDE OF THE LIMITS SHOWN ON THE PLANS. ADDITIONAL RE-SEEDING WILL BE INCIDENTAL TO THE PROJECT
- 38. ENGINEER TO APPROVE RIPRAP SAMPLE PROVIDED BY CONTRACTOR PRIOR TO CONSTRUCTION.

CLASSIFICATION GRADATION

STANDARD SPECIFICATION 1012.

DESIGNATION TYPE VL	MAX. DIMENSIONS 12 (0.30)	%SMALLER 100	Km [1]
=	9 (0.25) 50-70	100	
	6 (0.15) 35-55		
	3 (0.08) 10		6
TYPE L	18 (0.45)	100	
	12 (0.30)	50-70	
	6 (0.15) 35-55		
	3 (0.08) 10		9
TYPE M	24 (0.60)	100	
	18 (0.45)	50-70	
	12 (0.30)	30-55	12
	6 (0.15)	10	
[1] Km = mean particl	e size (inches)		

NOTE: CLASSIFICATION GRADATION WILL APPLY FOR ALL RIPRAP AND ARMORING APPLICATIONS FOR THIS PLAN SET. SEE ABOVE FOR CLASSIFICATION.

FOR ALL RIPRAP: FILL VOIDS OF RIPRAP WITH GRAVEL FILTER MATERIAL.

FILTER MATERIAL

FILTER MATERIAL SHALL BE CONSIST OF CRUSHED ROCK MEETING THE FOLLOWING GRADATION, OR ENGINEER APPROVED FOLIVALENT.

OK EKOMEEK / K / I	COVED EQUIVAL
U.S. STANDARD	PASSING
SIEVE SIZE	BY WEIGHT
1"	100
3/4"	45-65
#4	25-45
#40	0-20
#200	0-5

FILTER MATERIAL SHALL BE PLACED BENEATH THE RIPRAP AS SHOWN HEREON. THE FILTER MATERIAL SHALL BE TAMPED AND SHAPED TO FORM A SMOOTH, EVEN, AND FIRM FOUNDATION FOR THE OVERLYING RIPRAP. THE CONTRACTOR'S OPERATIONS AND METHODS OF PLACING SHALL PREVENT SEGREGATION OF THE MATERIALS. THE FILTER MATERIAL SHALL ALSO BE PLACED AND COMPACTED IN THE VOID SPACES OF THE RIPRAP.

EROSION CONTROL/ENVIRONMENTAL PROTECTIONS/STORM WATER POLLUTION PREVENTION PLAN

- 1. 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 REGULATORY AGENCIES.
- 2. THE CONTRACTOR SHALL PROMPTLY REMOVE ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY TO KEEP IT FROM WASHING OFF THE PROJECT SITE.
- 3. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO OTHER PROPERTY BY CONSTRUCTING TEMPORARY EROSION CONTROL BERMS OR PLAN. INSTALLING SILT FENCES AT THE PROPERTY LINES AND AS NEEDED TO PREVENT MIGRATION OF SEDIMENT INTO CHANNEL.
- 4. THE CONTRACTOR SHALL MITIGATE EROSION OF THE TEMPORARY OR PERMANENT DIRT SWALES BY INSTALLING CHECK DAMS IN THE SWALES PERPENDICULAR TO THE DIRECTION OF FLOW.
- 5. THE CONTRACTOR SHALL WET THE SOIL AS NEEDED TO KEEP IT FROM BLOWING. WATERING, AS REQUIRED FOR CONSTRUCTION AND DUST CONTROL, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO MEASUREMENT OR PAYMENT SHALL BE MADE THEREFOR. 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.
- ANY AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY LANDSCAPING OR ANY IMPERVIOUS SURFACE SHALL BE REVEGETATED 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. SEEDING SHALL BE NATIVE GRASS SEEDING PER SECTION 1012 OF THE APWA STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- 7. ALL WASTE PRODUCTS FROM THE CONSTRUCTION SITE, INCLUDING ITEMS DESIGNATED FOR REMOVAL, CONSTRUCTION WASTE, CONSTRUCTION EQUIPMENT WASTE PRODUCTS (OIL, GAS, TIRES, ETC.) GARBAGE, GRUBBING, EXCESS CUT MATERIAL, VEGETATIVE DEBRIS, ETC. SHALL BE APPROPRIATELY DISPOSED OF OFF SITE AT NO ADDITIONAL COST TO THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMITS REQUIRED FOR HAUL OR DISPOSAL 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.
- 8. 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. WHICH 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 AT 1-(505)-827-9329.
- 9. 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.
- 10. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING CONSTRUCTION NOISE AND HOURS OF OPERATION.
- 1. WHERE STORM INLETS ARE SUSCEPTIBLE TO INFLOW OF SILT OR DEBRIS FROM CONSTRUCTION ACTIVITIES, PROTECTION SHALL BE INSTALLED ON THEIR UPSTREAM SIDE.
- 12. THE CONTRACTOR SHALL PREPARE AND MAINTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) ON-SITE AT ALL TIMES, AND COMPLY WITH THE REQUIREMENTS INDICATED ON THAT PLAN.
- 13. A MINIMUM OF 21 DAYS PRIOR TO COMMENCING EARTH DISTURBING ACTIVITIES, CONTRACTOR SHALL FILE A NOTICE OF INTENT (NOI) WITH EPA FOR CONSTRUCTION GENERAL PERMIT COMPLIANCE. COPIES OF THE NOI RECEIPT AND SWPPP SHALL BE SENT TO OWNER.
- 14. AT END OF CONSTRUCTION AND AFTER STABILIZATION ACTIVITIES CONTRACTOR SHALL SUBMIT NOTICE OF TERMINATION (NOT).
- 15. CONTRACTOR SHALL CONFORM TO USACE 404 PERMIT CONDITIONS, IF ANY.

DRAWING SIZE NOTES:

1. IF THIS DRAWING IS OTHER THAN FULL SIZE, 24"x36", UTILIZE BAR SCALE IN LIEU OF NUMERIC SCALE.

LEGEND

PROPERTY LINE	
EASEMENT BOUNDARY	
EXISTING CONTOUR MAJOR	
EXISTING CONTOUR MINOR	
PROPOSED CONTOUR MAJOR	
PROPOSED CONTOUR MINOR	
PROPOSED FENCE	XX
EXISTING GROUND	
PROPOSED GROUND	
ALIGNMENT	

NOTE: SEE SHEET G-103 FOR SURVEY LEGEND AND NOTES.

CONTACTS

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RESPEC HUGH FLOYD, P.E. 7770 JEFFERSON STREET NE, SUITE 200 ALBUQUERQUE, NM 87109 (505) 253-9718

CITY OF RIO RANCHO UTILITIES DEPARTMENT DAVID SERRANO, P.E. 3200 CIVIC CENTER CIRCLE NE RIO RANCHO, NEW MEXICO 87124 SUITE 250 (505) 891-5059 DSERRANO@RNNM.GOV

PNM GILBERT HERNANDEZ ENGINEER 4 3150 CARLISLE BLVD. NE, ES-10 ALBUQUERQUE, NEW MEXICO 87107 (505) 241-3622 GILBERT.HERNANDEZ@PNM.COM

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ALBUQUERQUE, NEW MEXICO 87107
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GILBERT.HERNANDEZ@PNM.COM

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LUMEN
ABDUL BHUIYAN
ENGINEER 2
4301 BOGAN AVE NE
ALBUQUERQUE, NEW MEXICO 87109
(505) 886-4665

NM GAS COMPANY
ELBERT BALLADO
DISTRICT ENGINEER 1
4625 EDITH BLVD. NE, MS-GS65
ALBUQUERQUE, NEW MEXICO 87107
(505) 798-3346
ELBERTMARTIN.BALLADO@NMGCO.COM

STAMP REVISA

REVISION

NOT FOR CONSTRUCTION 5/2024

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATES

Know what's below.

Call before you dig.

PROJ. #: W0005.23005

UPPER VENADA --CHANNEL FACILITY

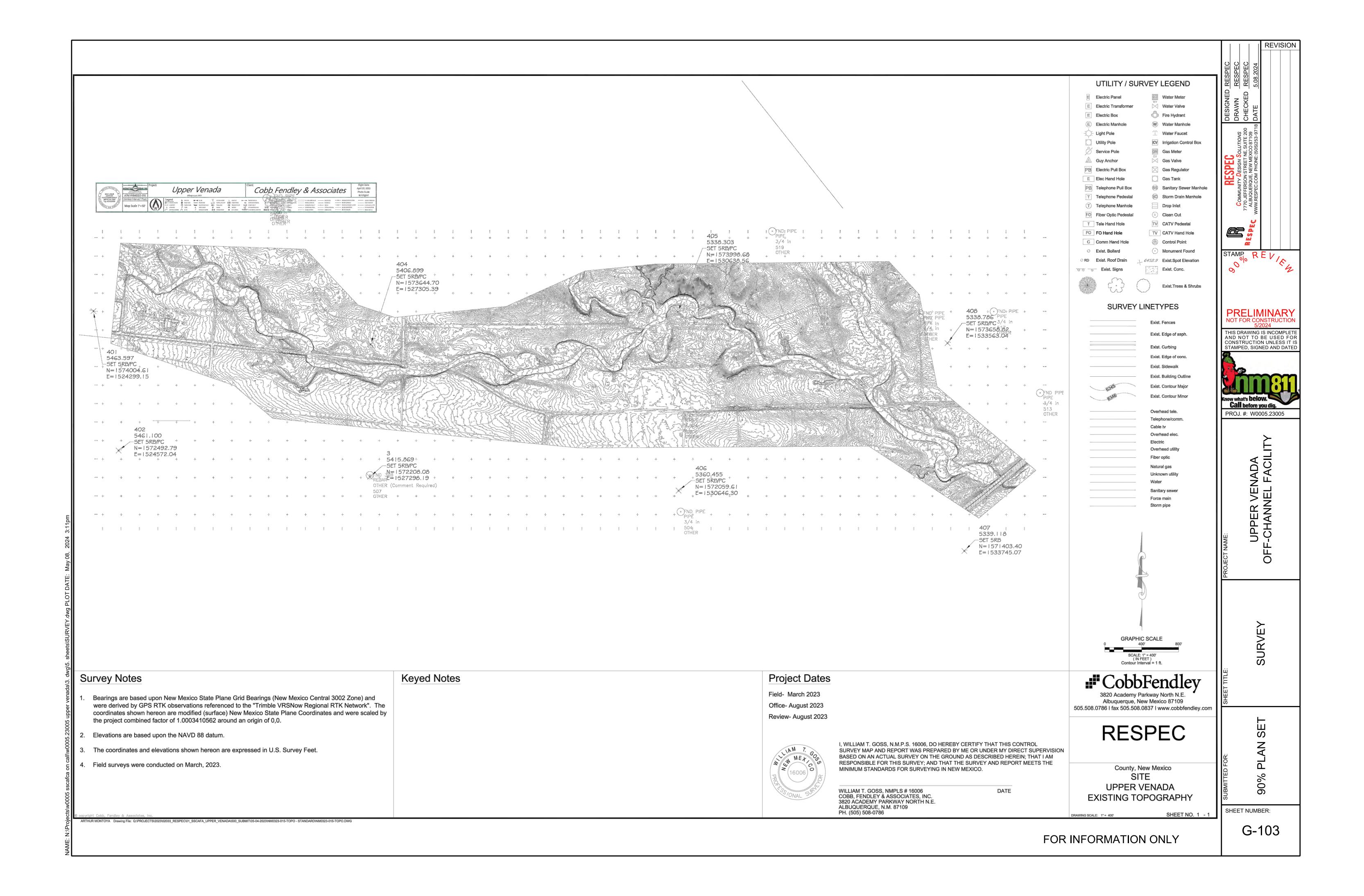
VERAL NOTES & LEGEND

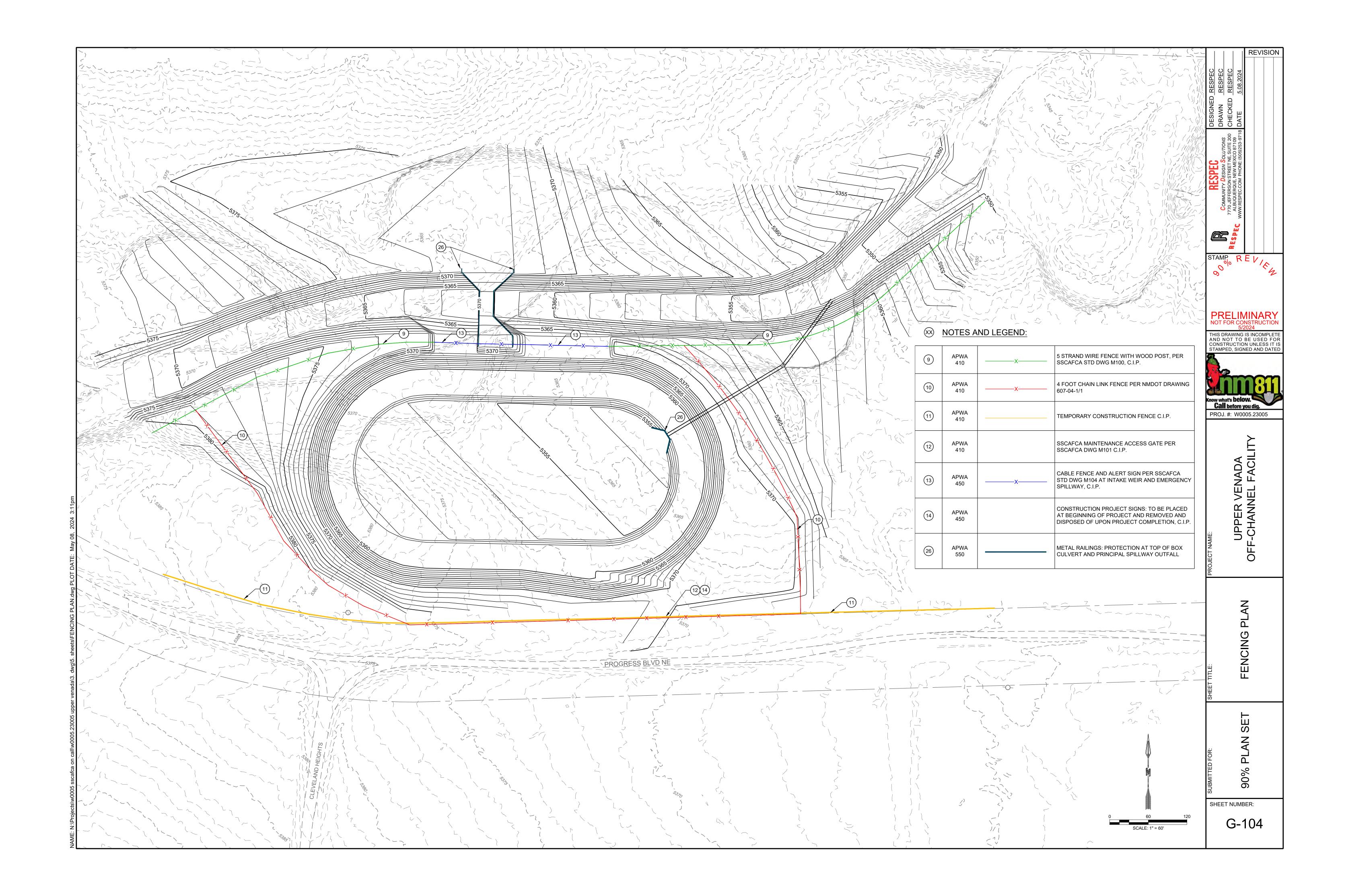
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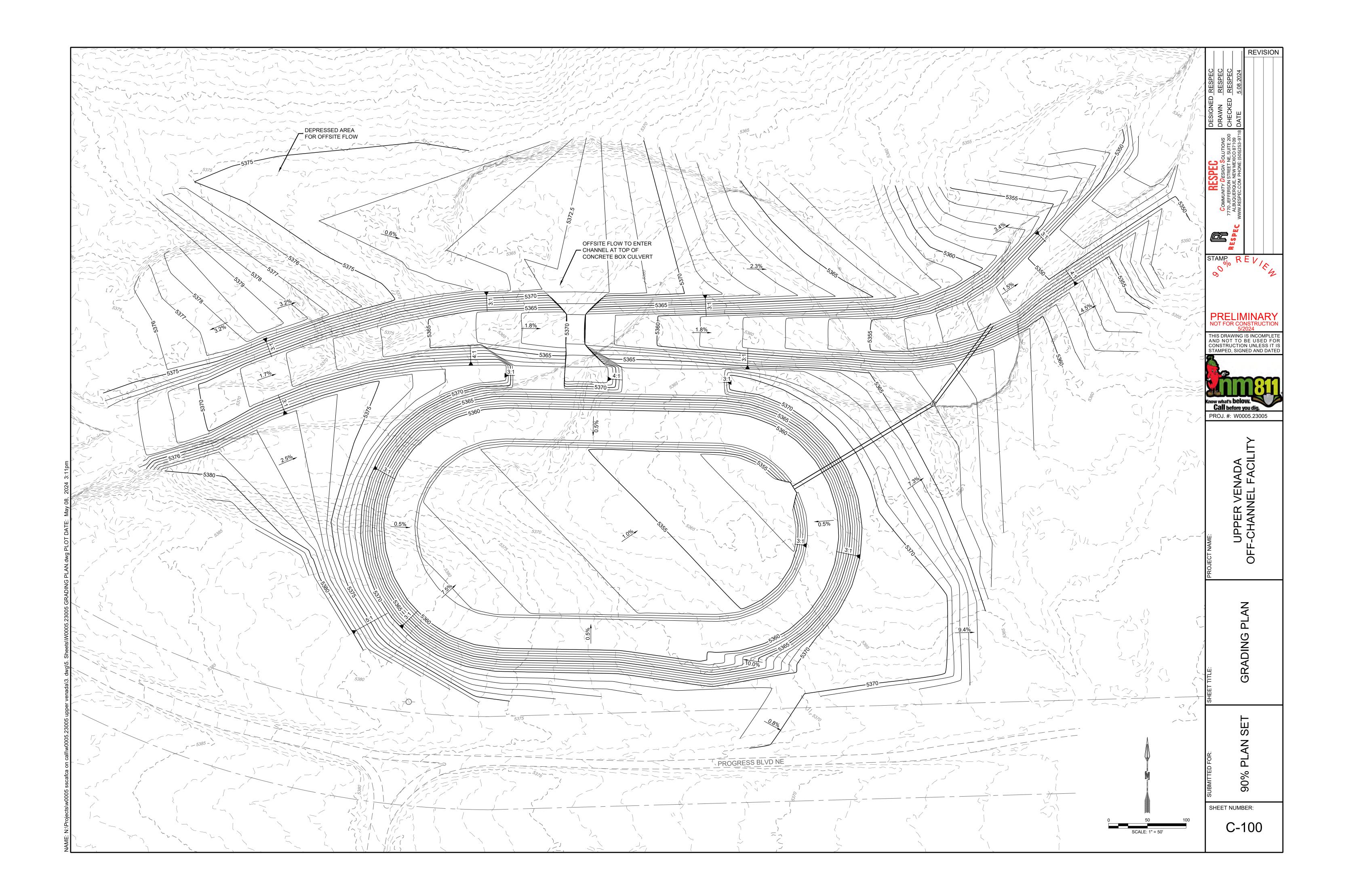
90% PLAN SET

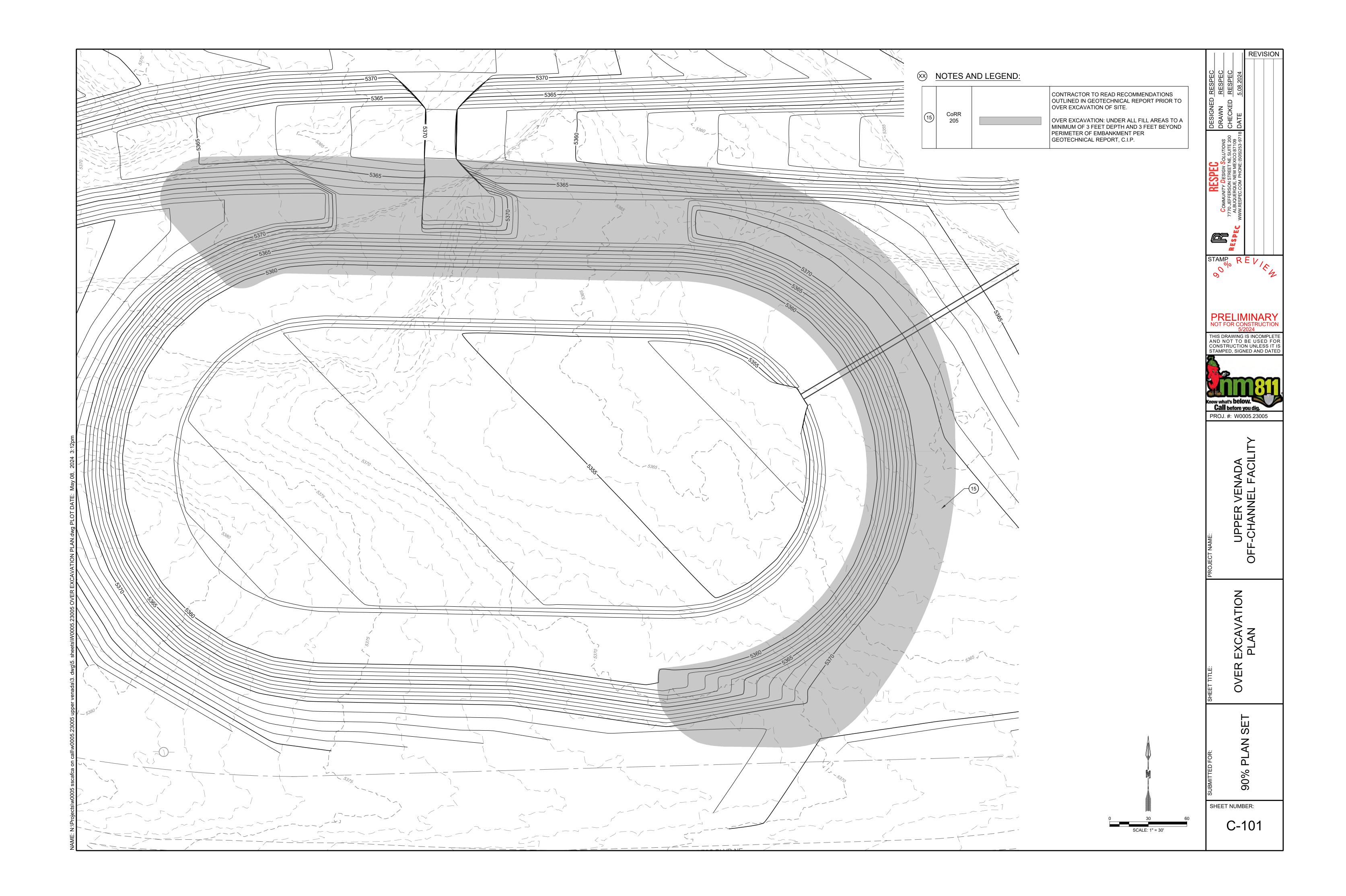
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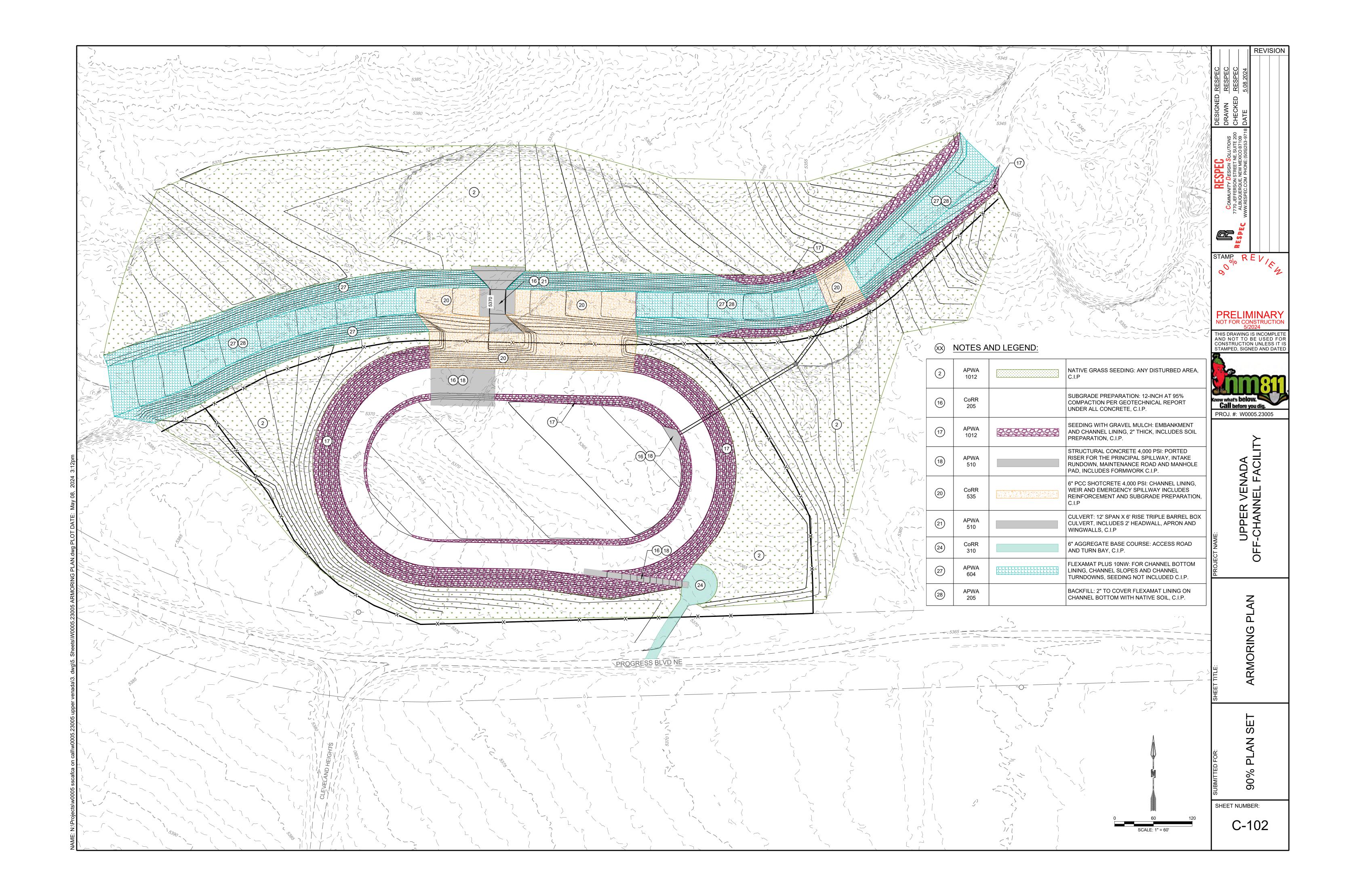
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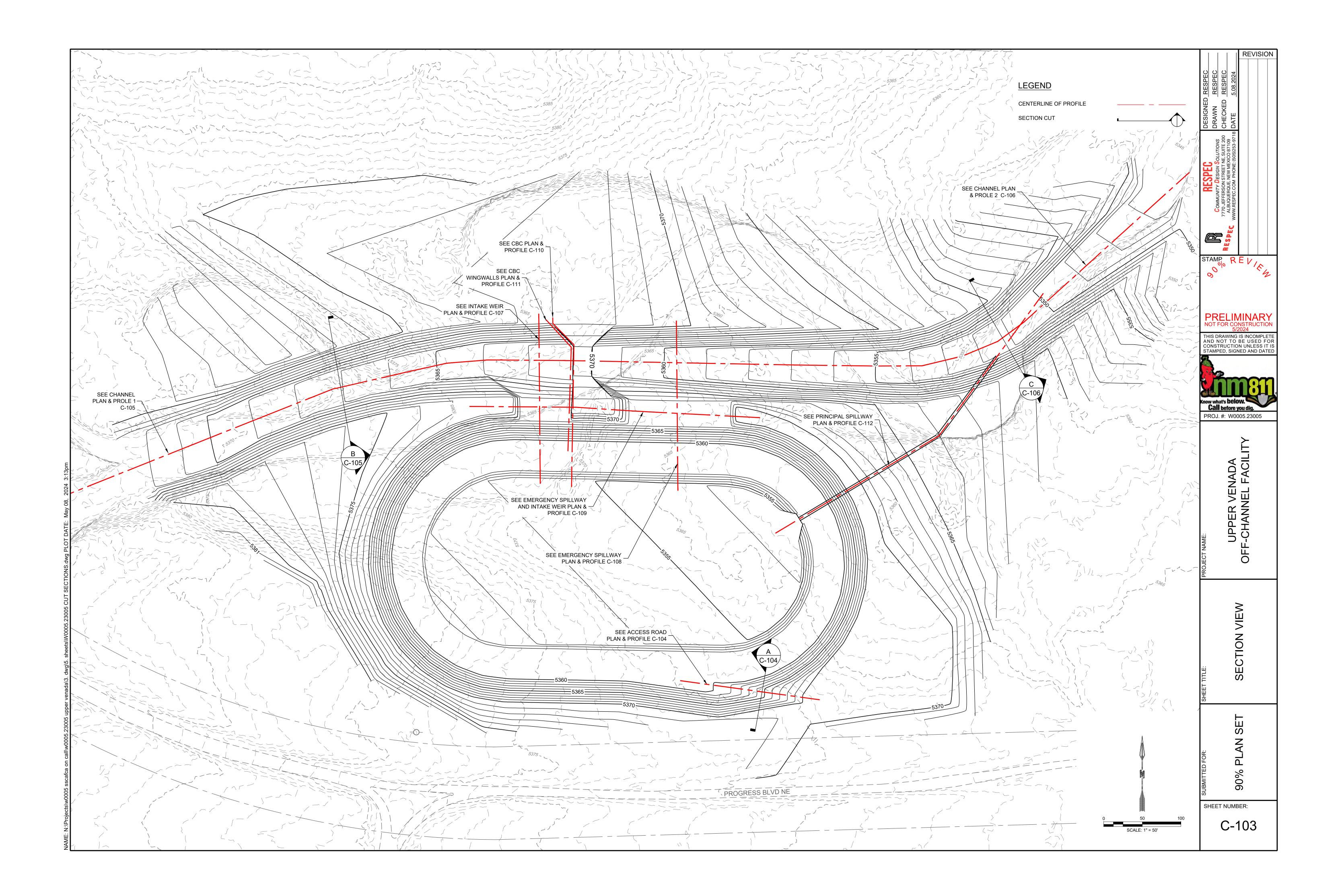


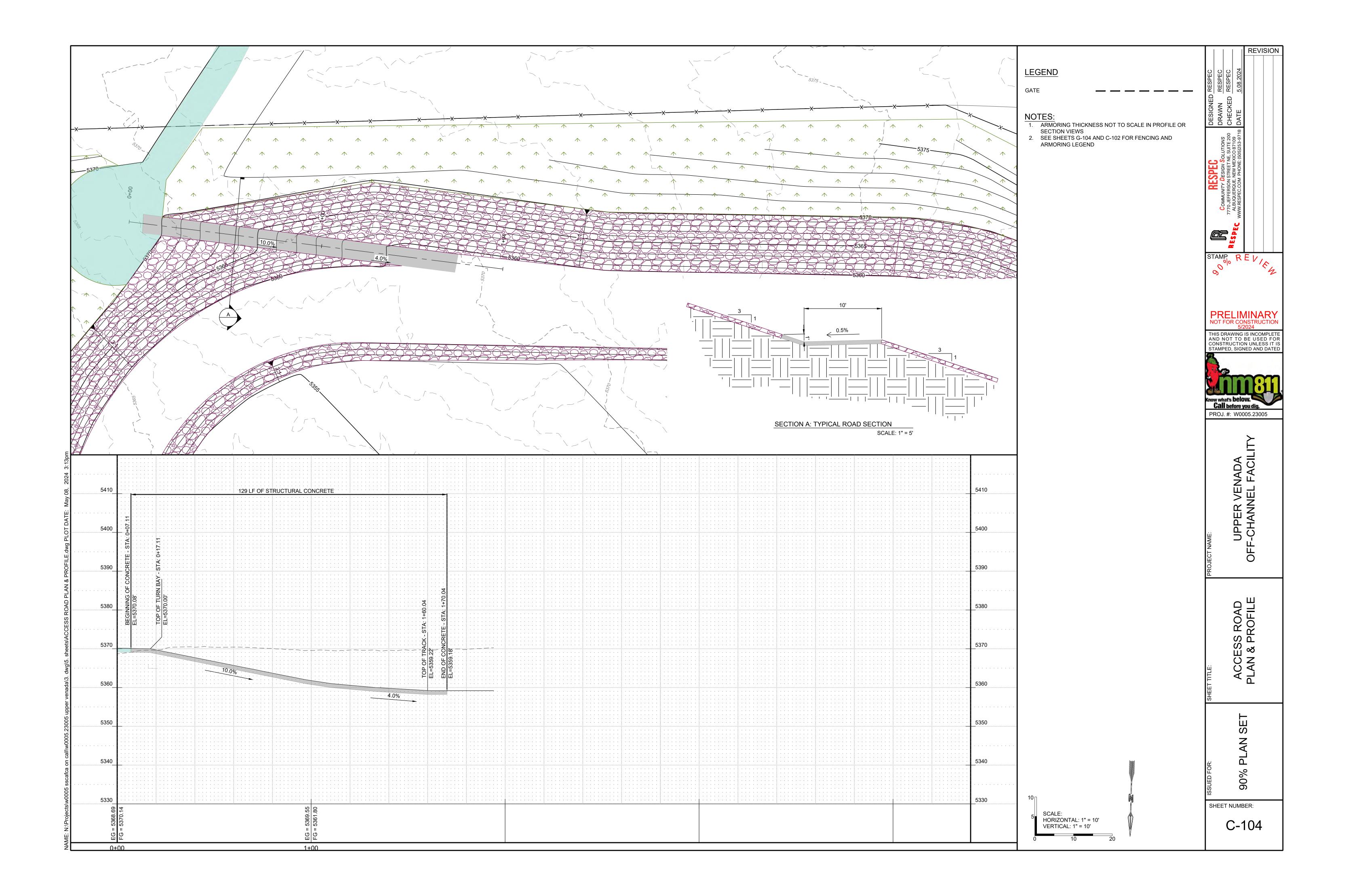


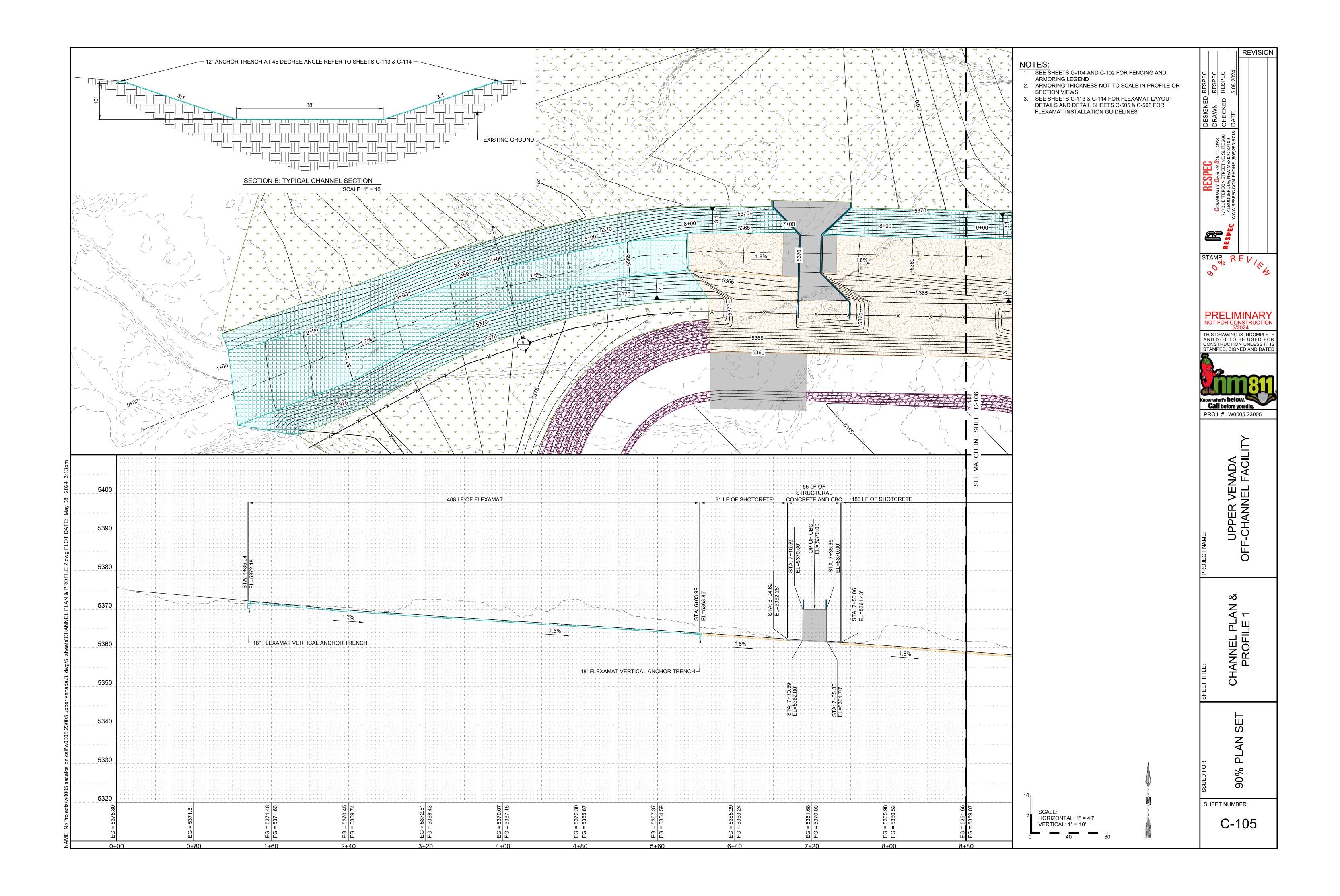


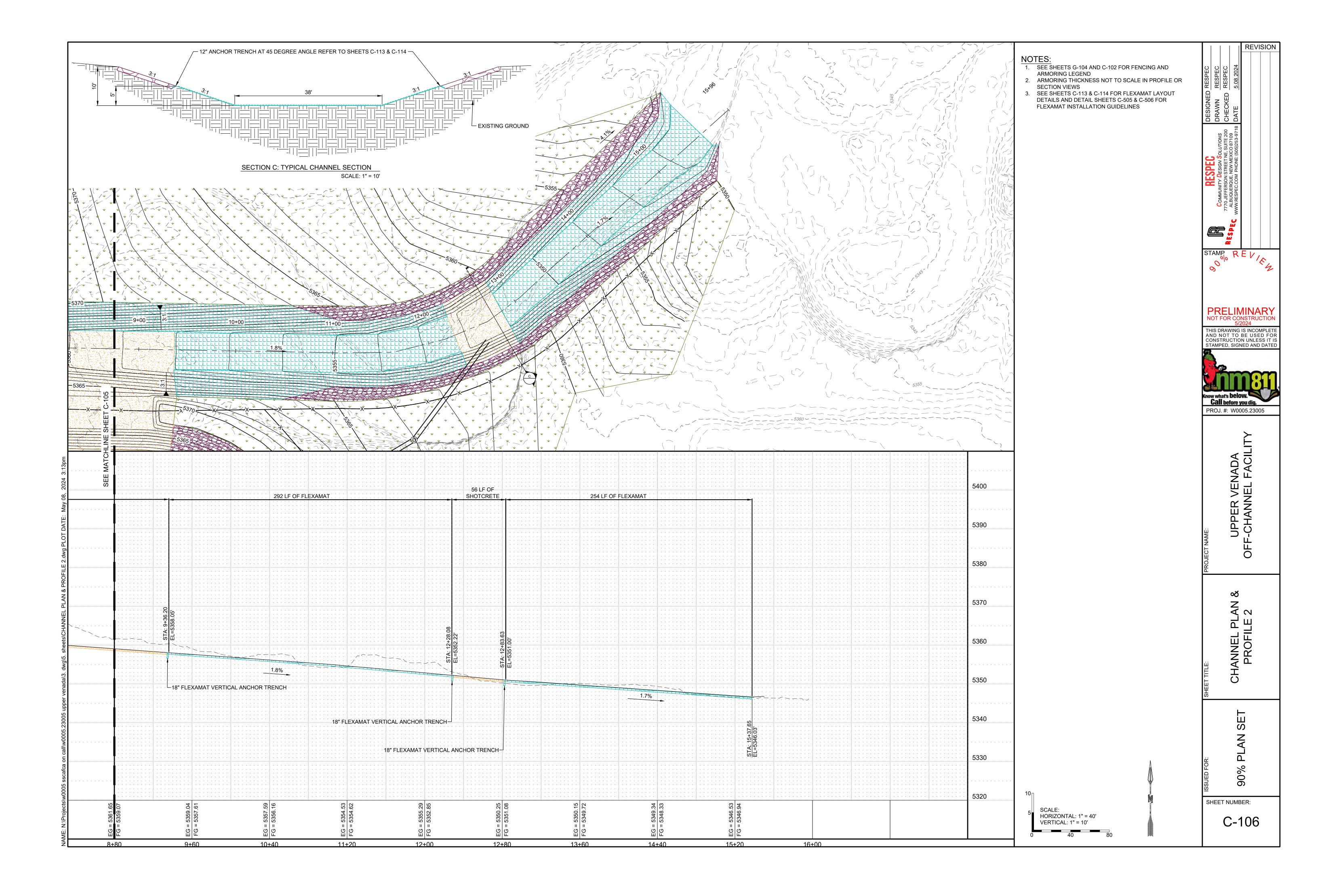


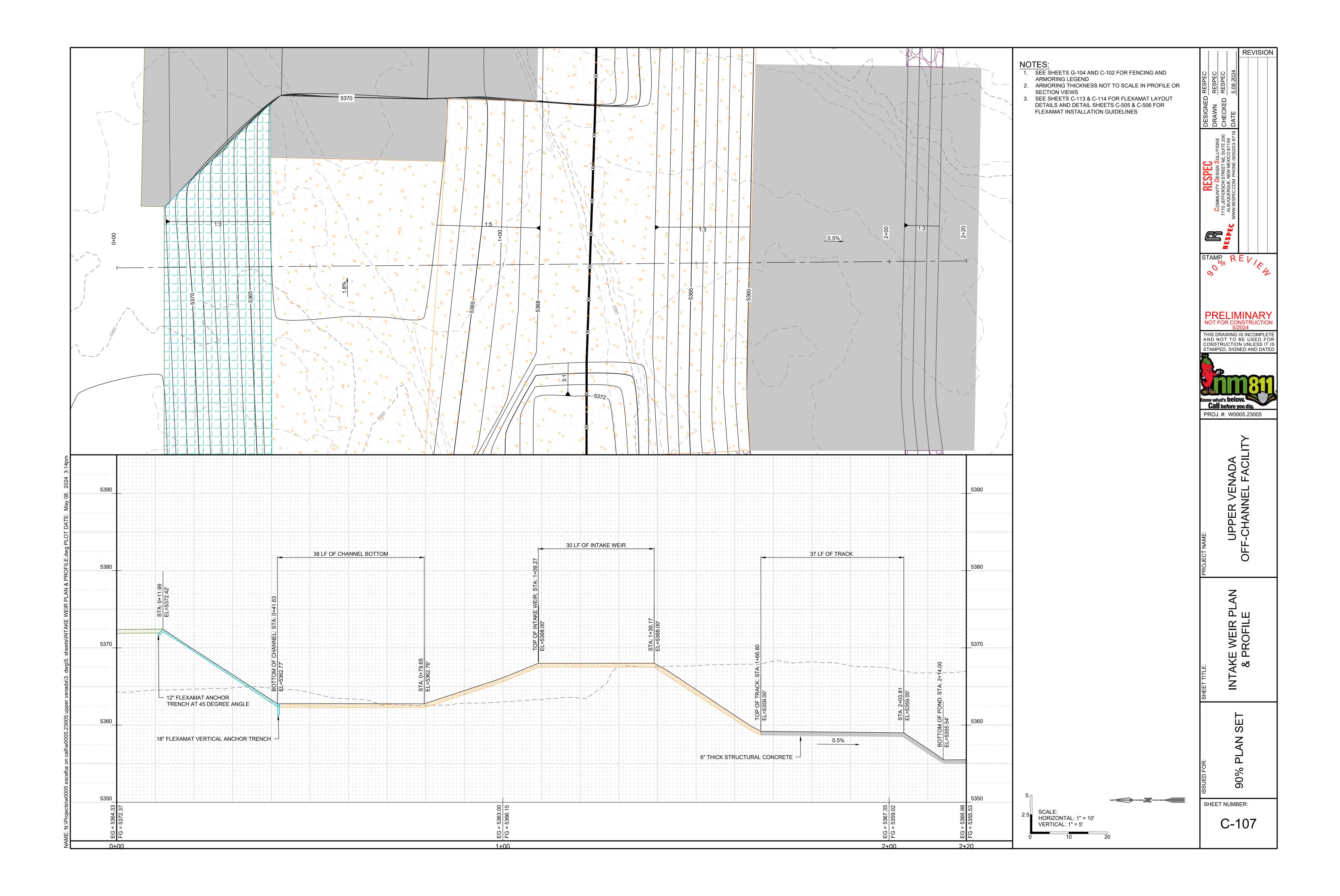


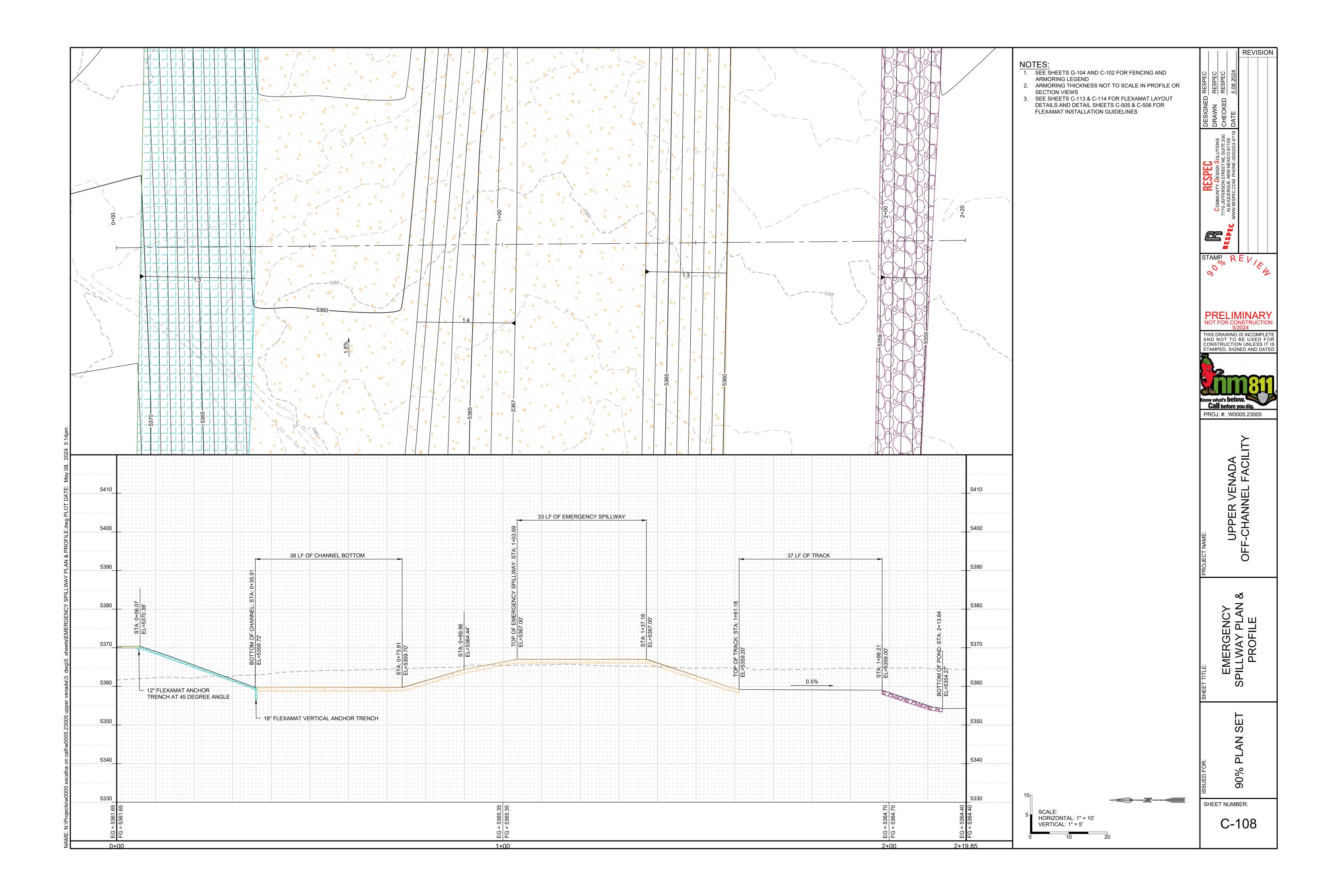


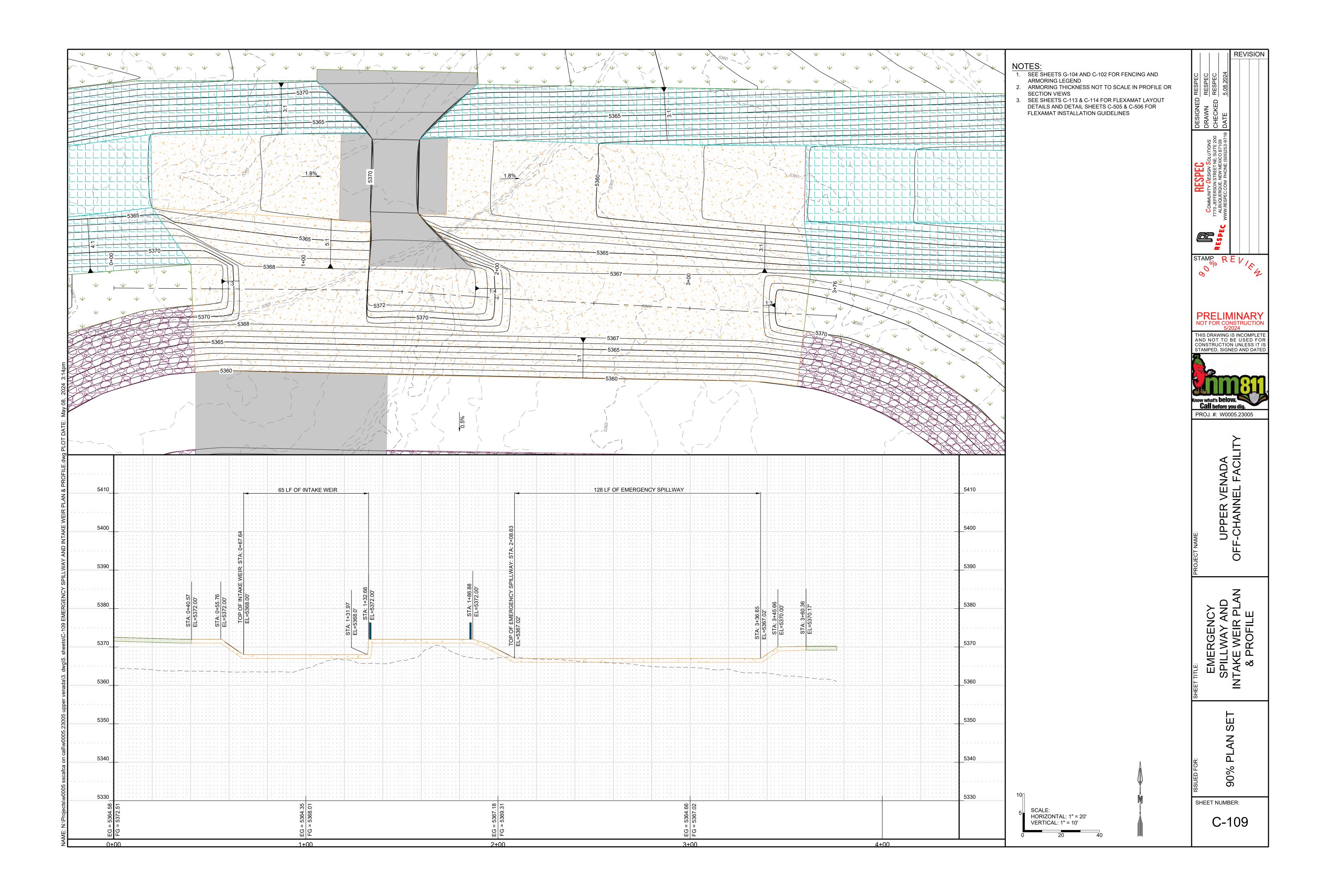


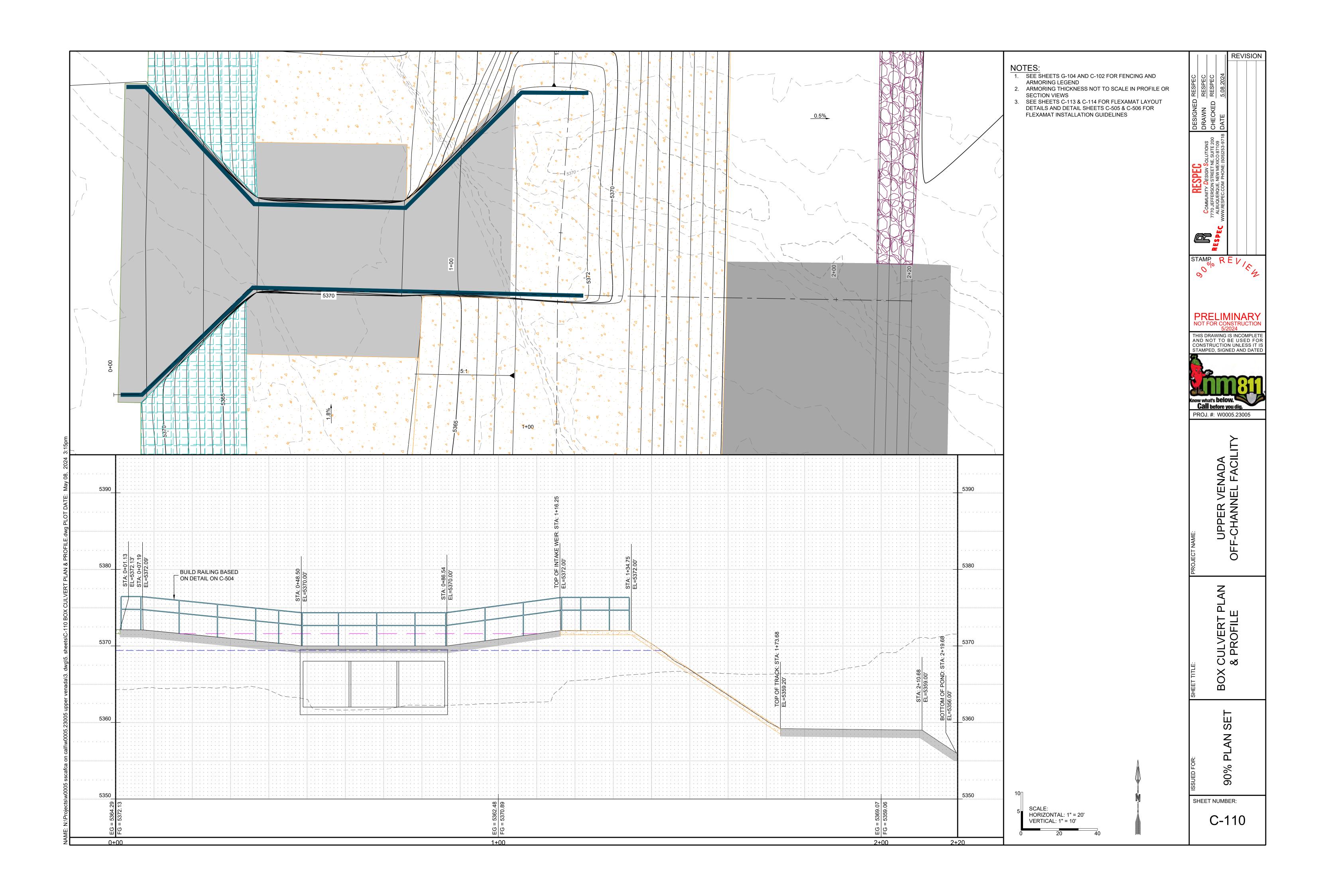


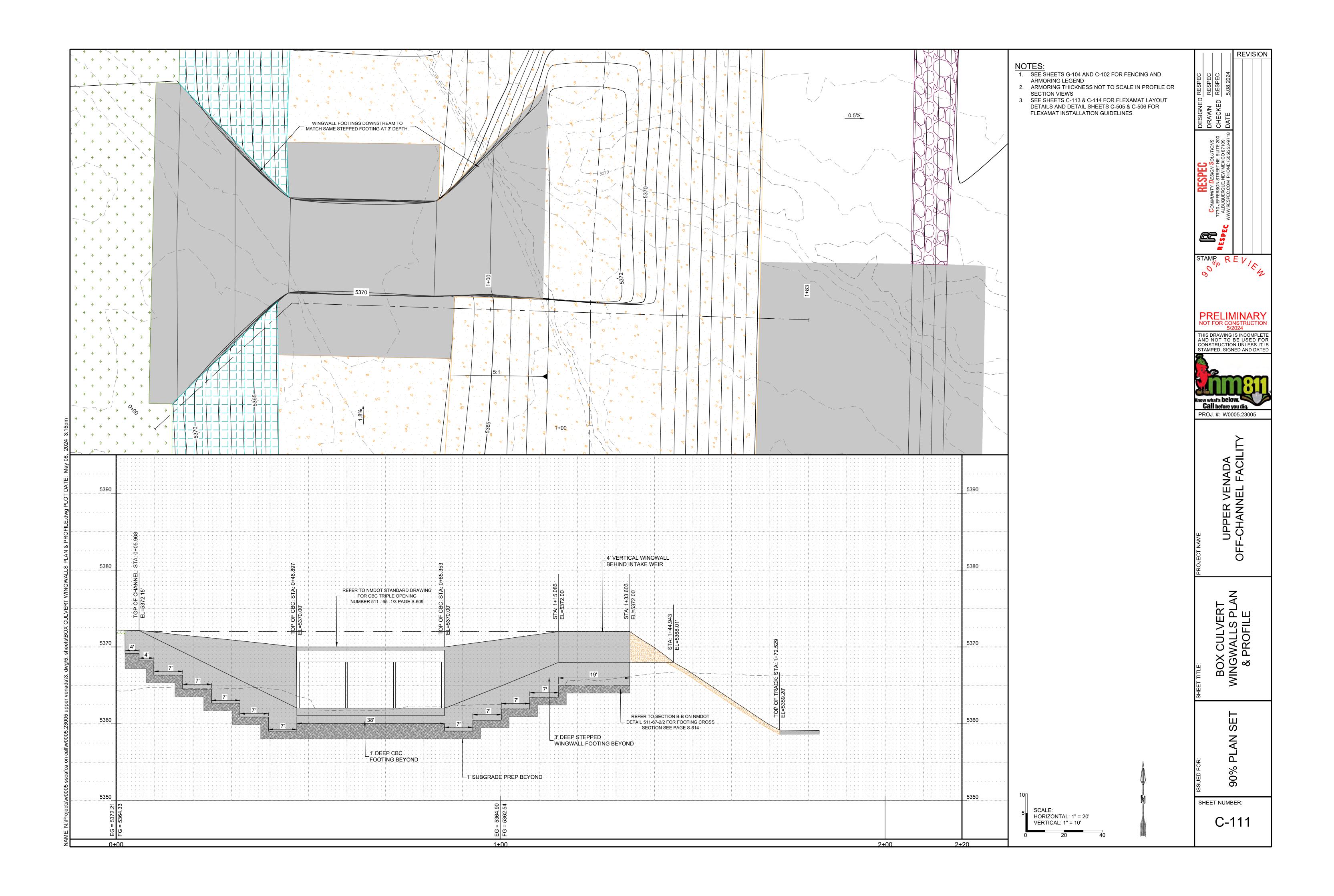


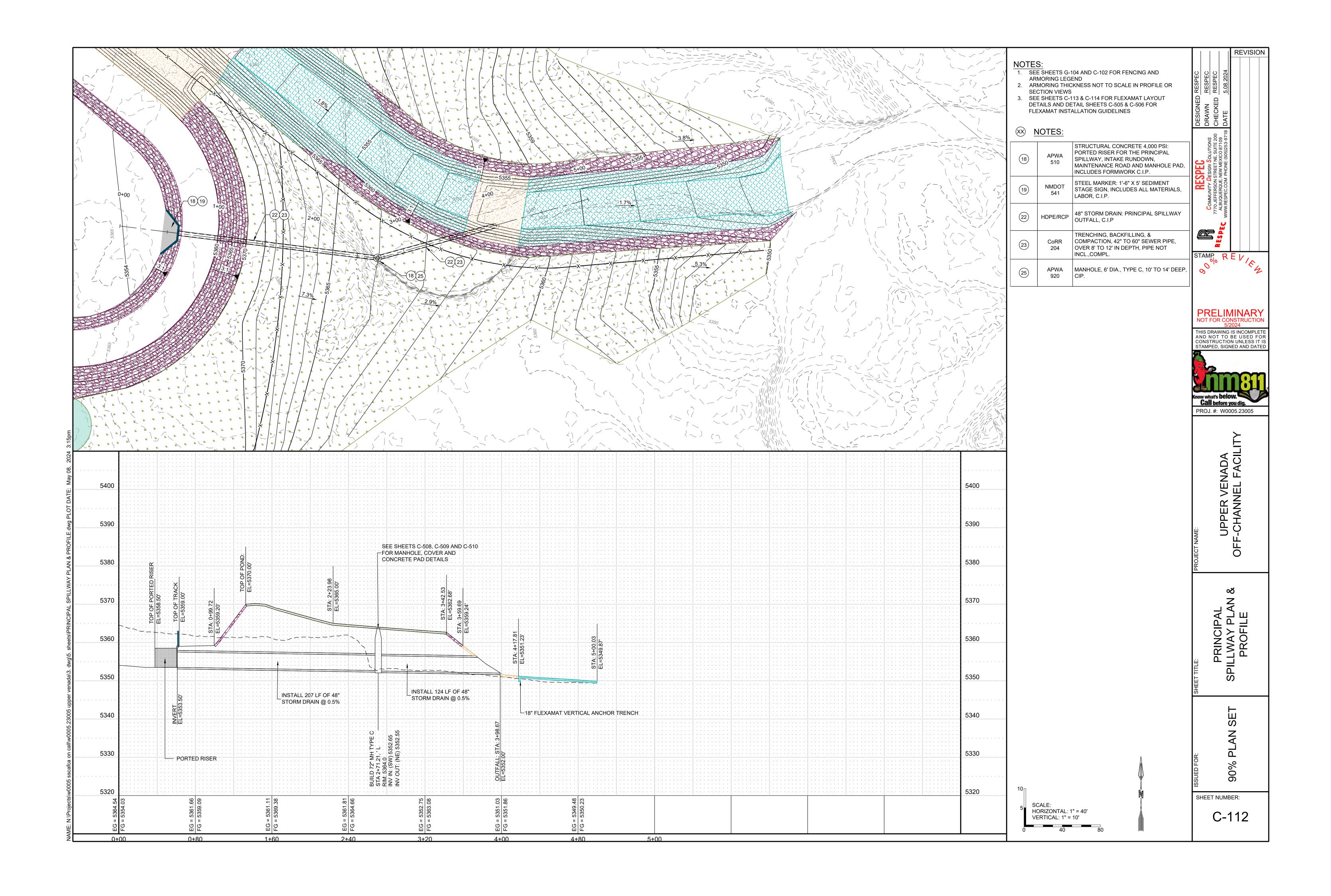


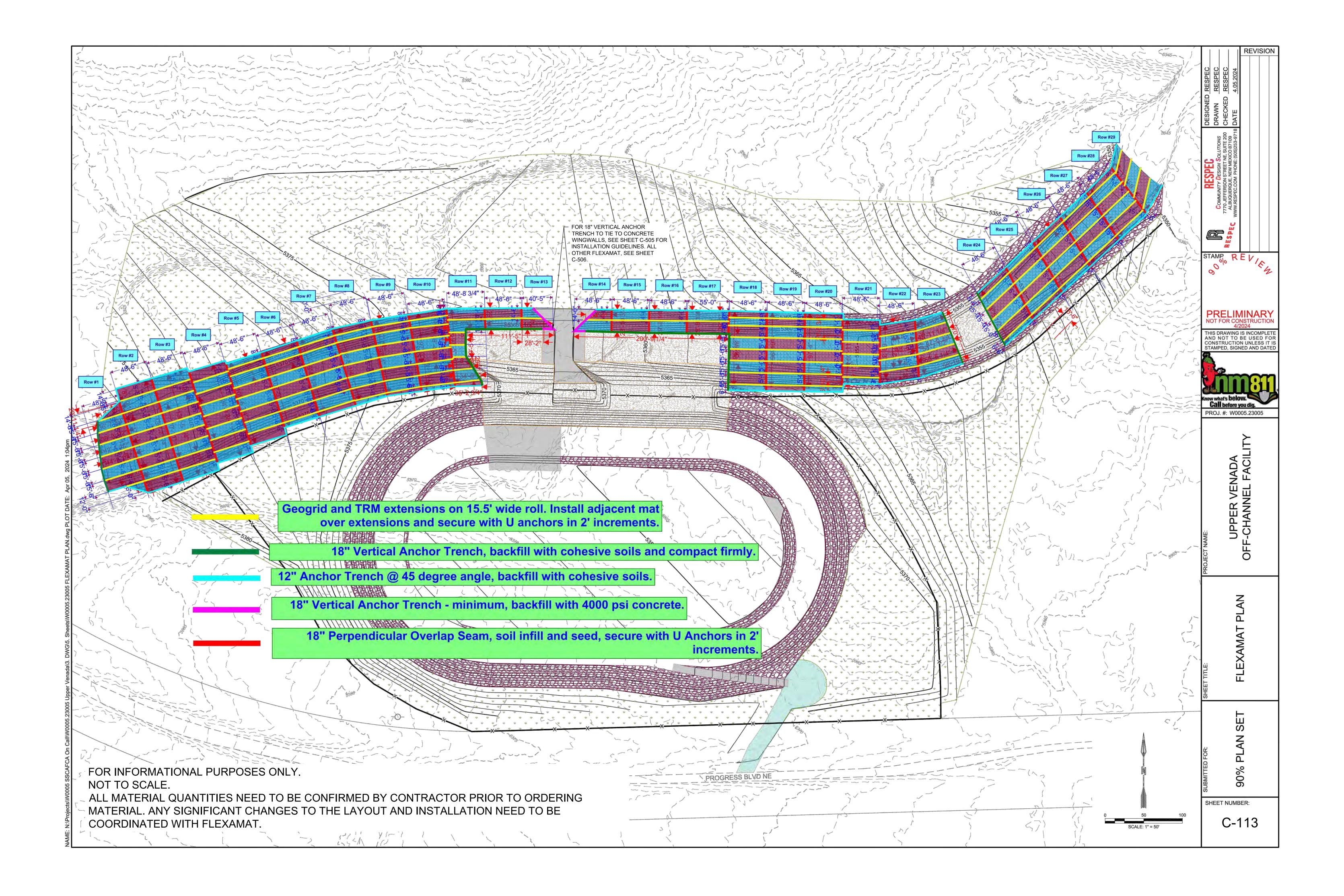


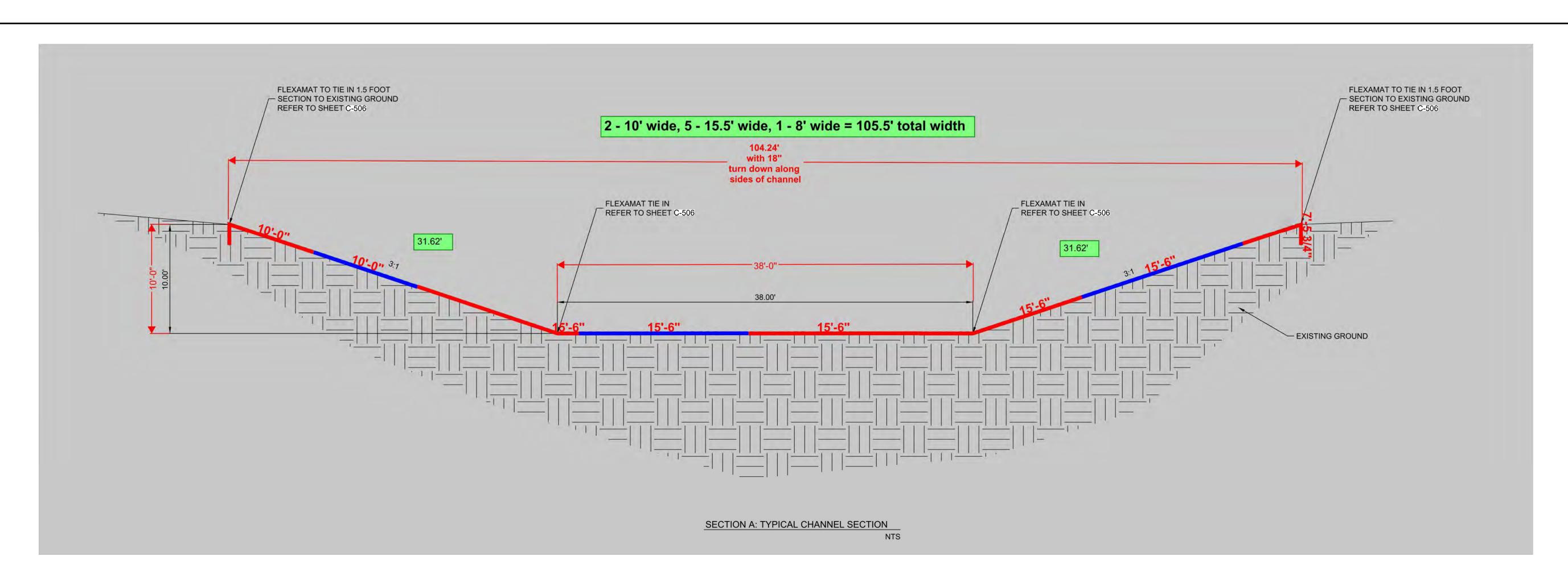


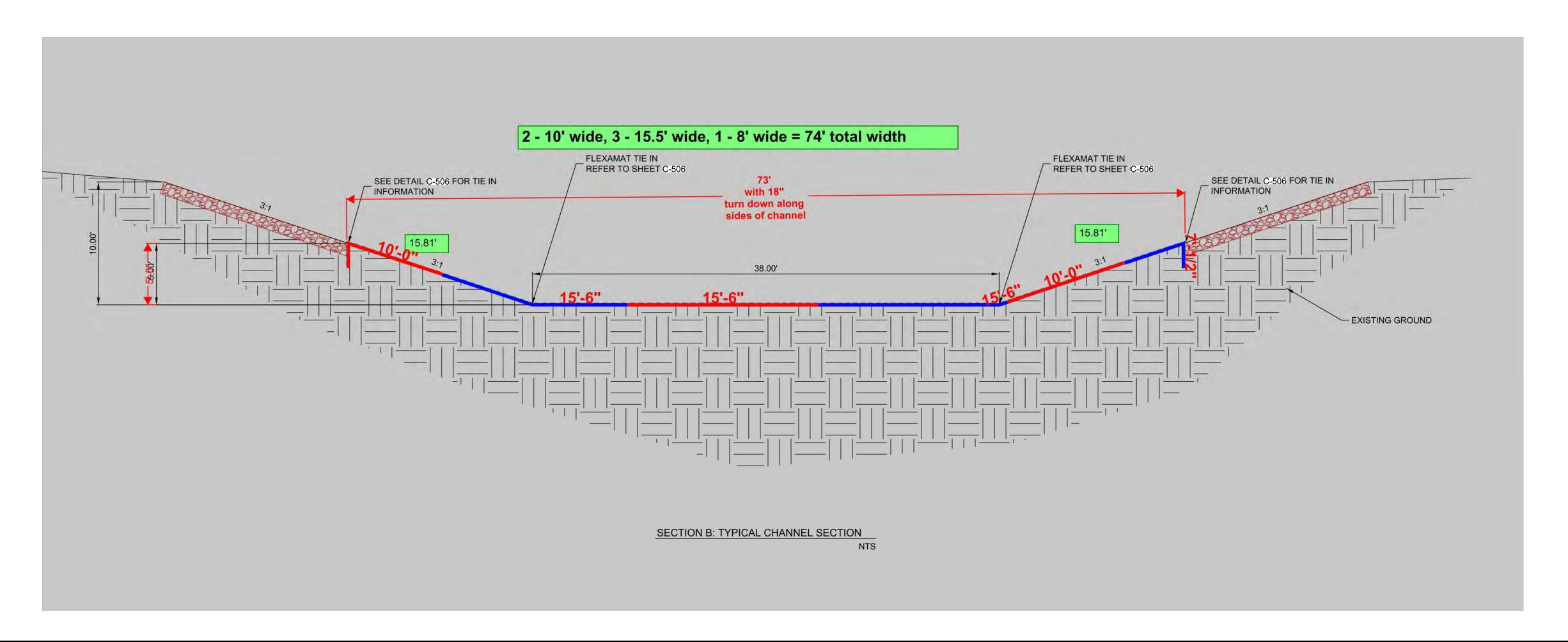








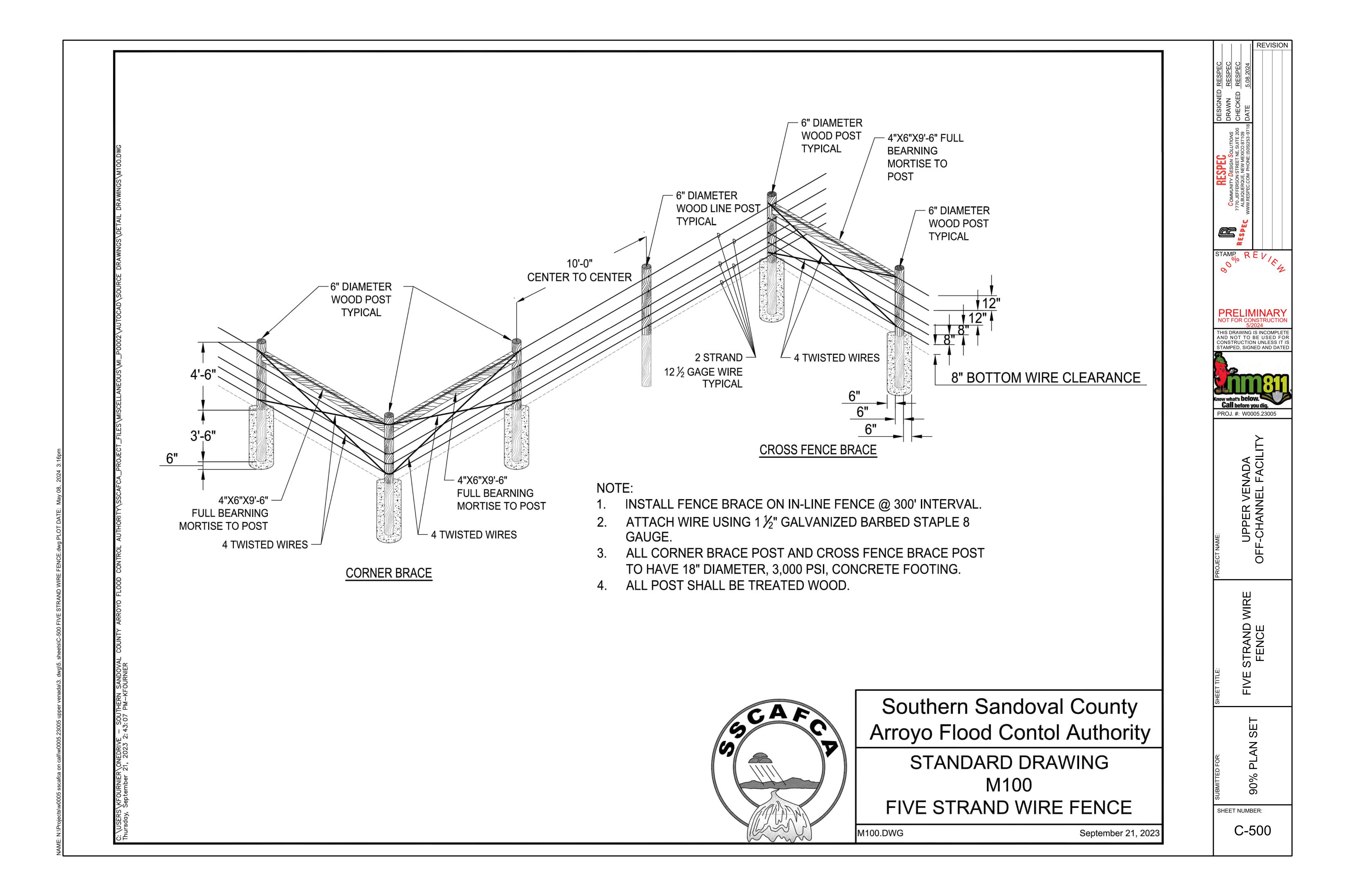


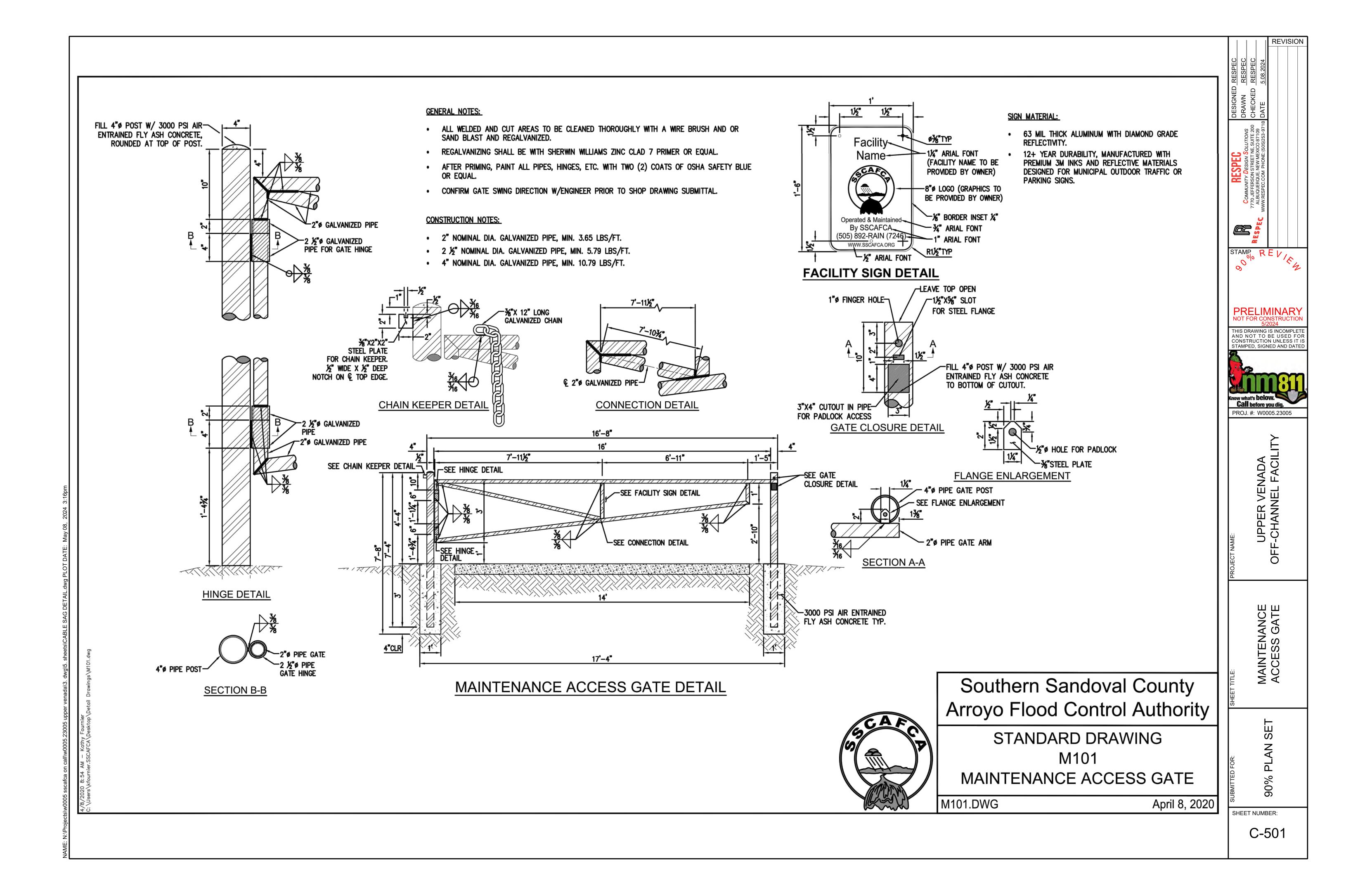


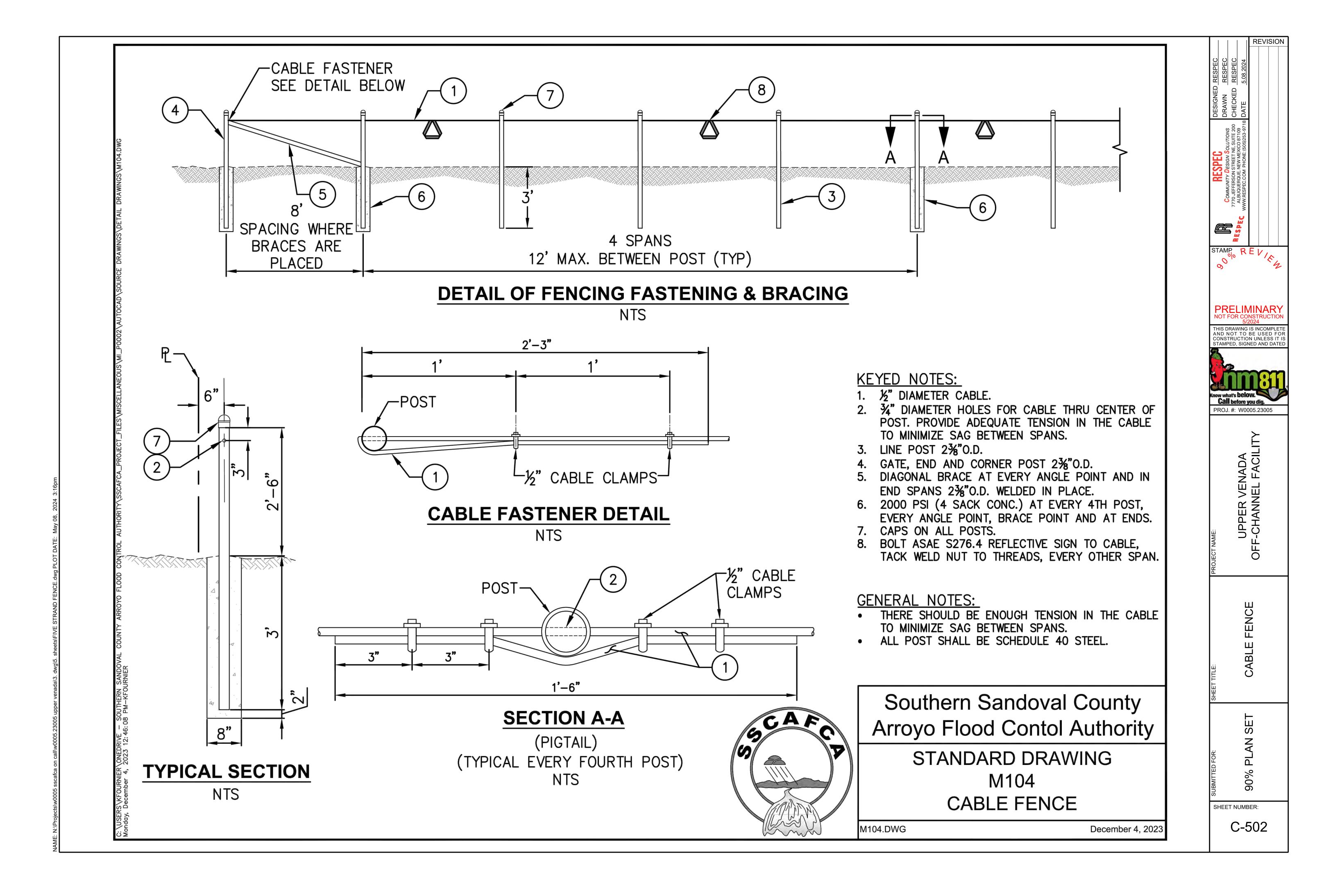
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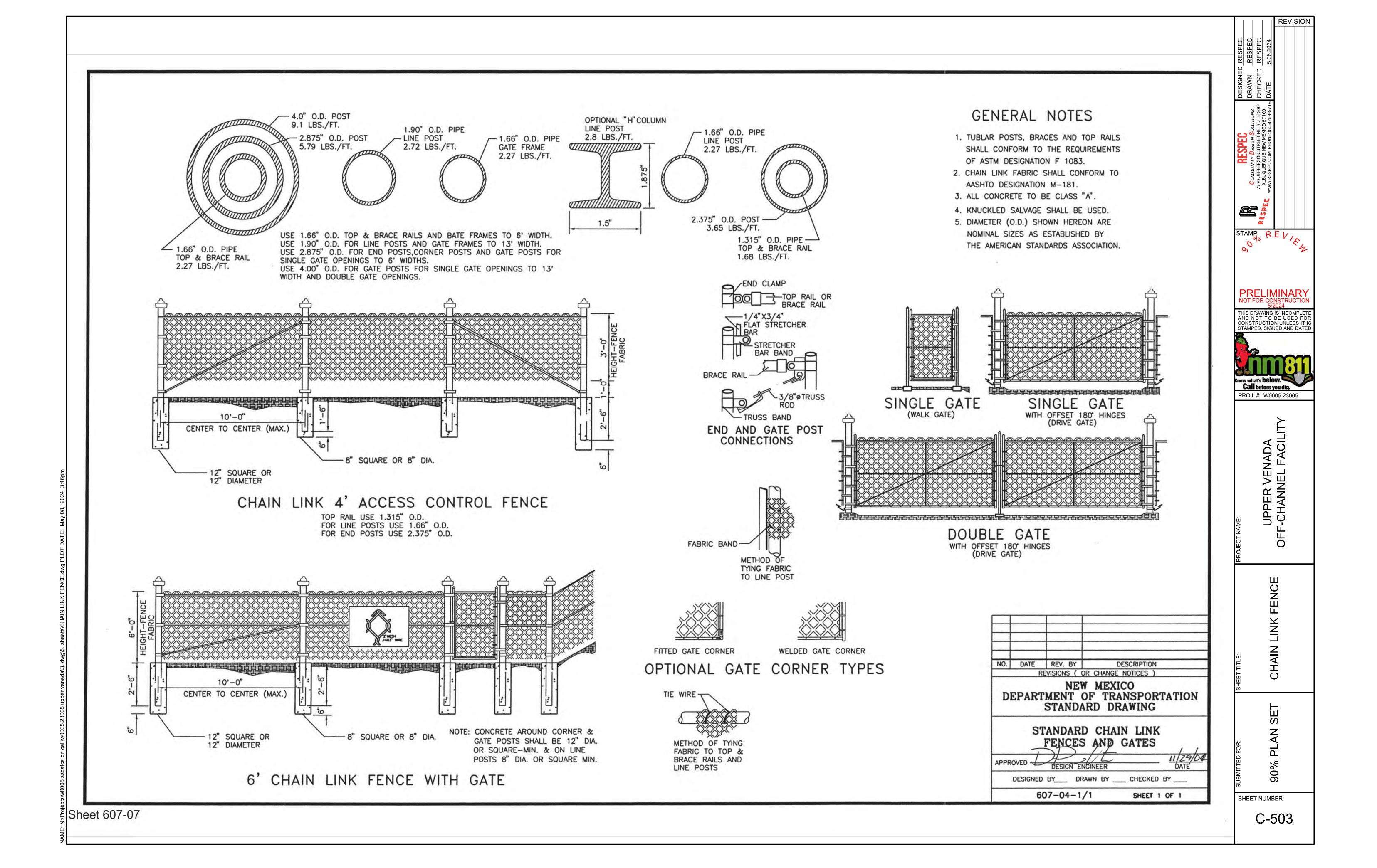
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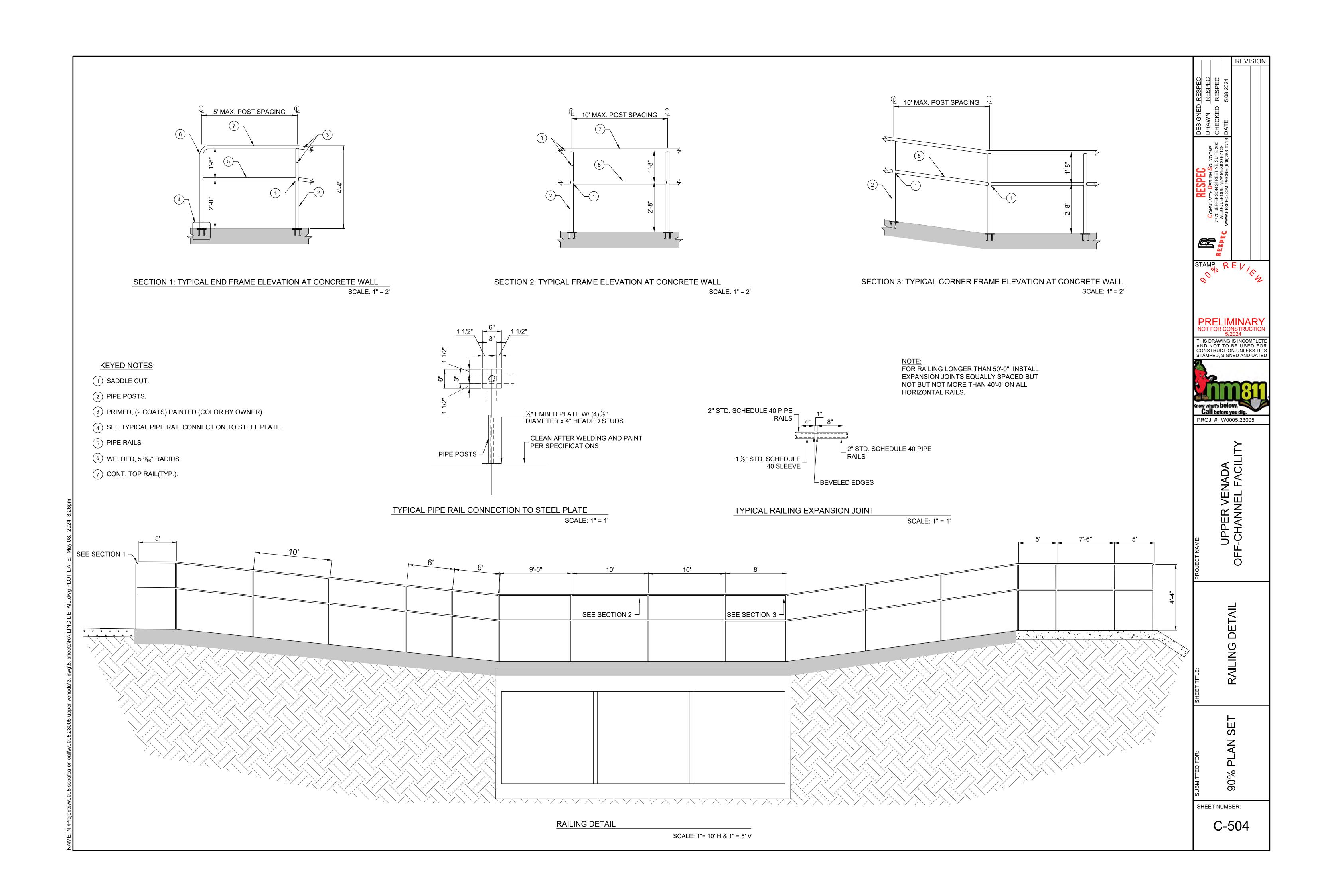
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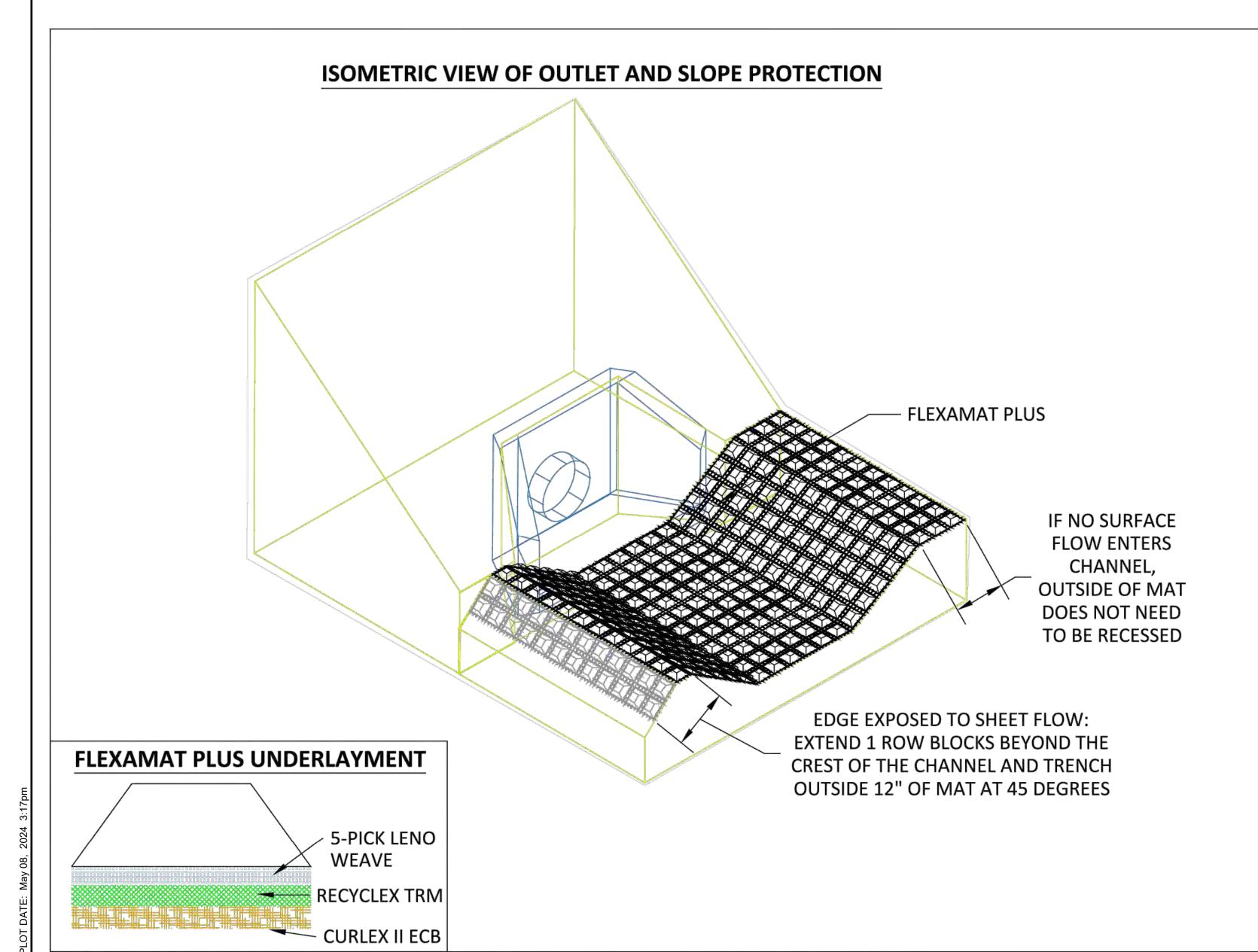




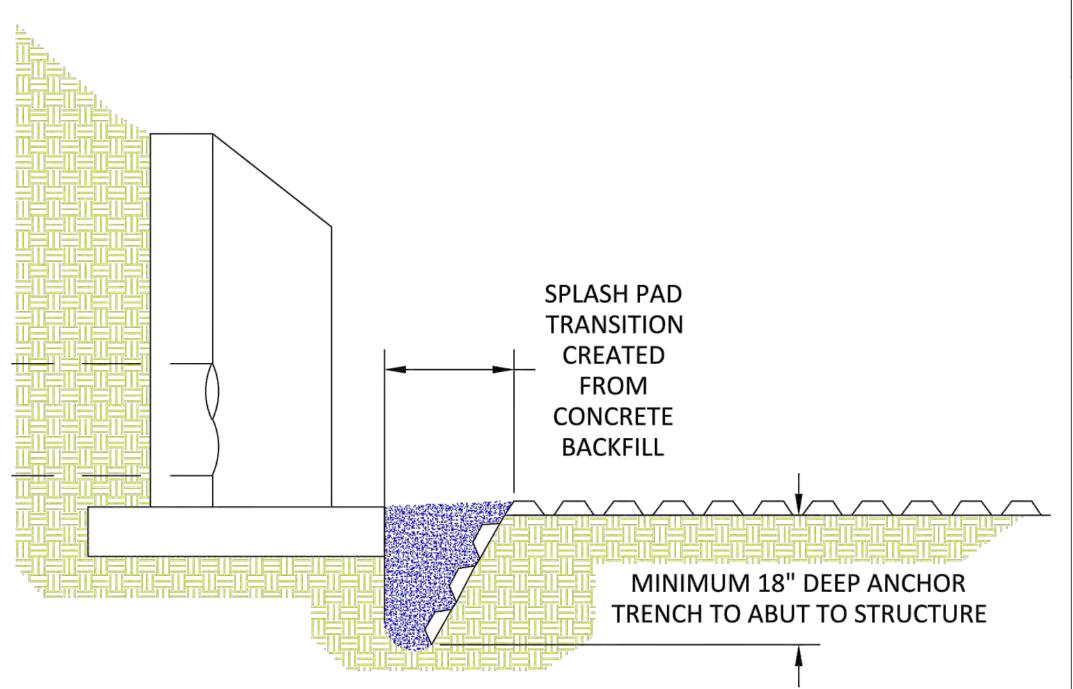












PRELIMINARY NOT FOR CONSTRUCTION 5/2024 THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED Know what's below. Call before you dig. PROJ. #: W00005.23005

FLEXAMAT PLUS - OUTLET ARMORING

CONSTRUCTION NOTES:

- GRADE CHANNEL SO THAT WATER WILL FLOW DOWN CENTER OF THE CHANNEL AND BE CONTAINED TO THE CHANNEL. ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF ALL ROCKS, STICKS, ROOTS, OTHER PROTRUSIONS, OR DEBRIS OF ANY KIND. THE PREPARED SURFACE SHALL PROVIDE A FIRM UNYIELDING FOUNDATION FOR THE MATS.
- 2. INSTALL FLEXAMAT ROLLS. AVAILABLE WIDTHS ARE 4', 5.5', 8', 10', 12', AND 16' AVAILABLE IN CUSTOM LENGTHS. FOR WIDTHS WIDER THAN 16', INSTALL MAT WITH GEOGRID EXTENSION AND PLUS UNDERLAYMENT EXTENSION.
 - 2.1. WHERE POSSIBLE AVOID LONGITUDINAL ABUTMENT SEAMS IN CHANNEL BOTTOM.
- 2.2. FOR OUTLET PROTECTION WIDER THAN 16' SEE CHANNEL PARALLEL TO FLOW INSTALLATION DETAIL.
- 2.3. FOR OUTLET PROTECTION THAT REQUIRES MORE THAN 1 MAT IN LENGTH TO COVER CHANNEL SEE CHANNEL PARALLEL TO FLOW INSTALLATION DETAIL.
- AT THE BEGINNING OF CHANNEL, THE INITIAL LEADING EDGE OF FLEXAMAT EXPOSED TO CONCENTRATED FLOW SHALL BE EMBEDDED 18" VERTICALLY INTO ANCHOR TRENCH. THE TRENCH SHALL BE FILLED WITH 4,000 PSI CONCRETE.
- 4. AT THE END OF THE ARMORED CHANNEL, EMBED THE MAT 18" IN A TERMINATION TRENCH. FILL AND COMPACT TERMINATION TRENCH WITH A COHESIVE FILL.

GUIDANCE TABLE FOR STORMWATER OUTFALL PROTECTION					
PIPE DIAMETER		FLEXAMAT WIDTH	FLEXAMAT LENG (*MIN)		
12"	8 CFS	5.5'	5'		
18"	20 CES	8'	8'		

24"

		` ,	I ADLL.
8 CFS	5.5'		*LENGTH OF PROTECTION W
20 CFS	8'	8'	VARY ON THE L
30 CFS	8'	1111	OF THE SLOPE, OF SLOPE, OR II
75 CFS	12'	16'	DISCHARGING (
100 CFS	16'	20'	FLAT AREA. OU DISCHARGING (
150 CFS	20'	25'	SLOPES, IT IS
			RECOMMENDE
			EXTEND FLEXA

MANUFACTURER FOR
GUIDANCE IF DESIGN
DISCHARGE VARIES
SIGNIFICANTLY FROM
VALUES LISTED IN
TABLE.
*LENGTH OF
PROTECTION WILL
VARY ON THE LENGTH
OF THE SLOPE, DEGREE
OF SLOPE, OR IF IT IS
DISCHARGING ONTO A
FLAT AREA. OUTFALLS
DISCHARGING ONTO
SLOPES, IT IS
RECOMMENDED TO
EXTEND FLEXAMAT
PLUS THE LENGTH OF

THE SLOPE AND 3'

PAST THE TOE.

*CONSULT

PERIMANENT EROSION CONTROL

REV - 3

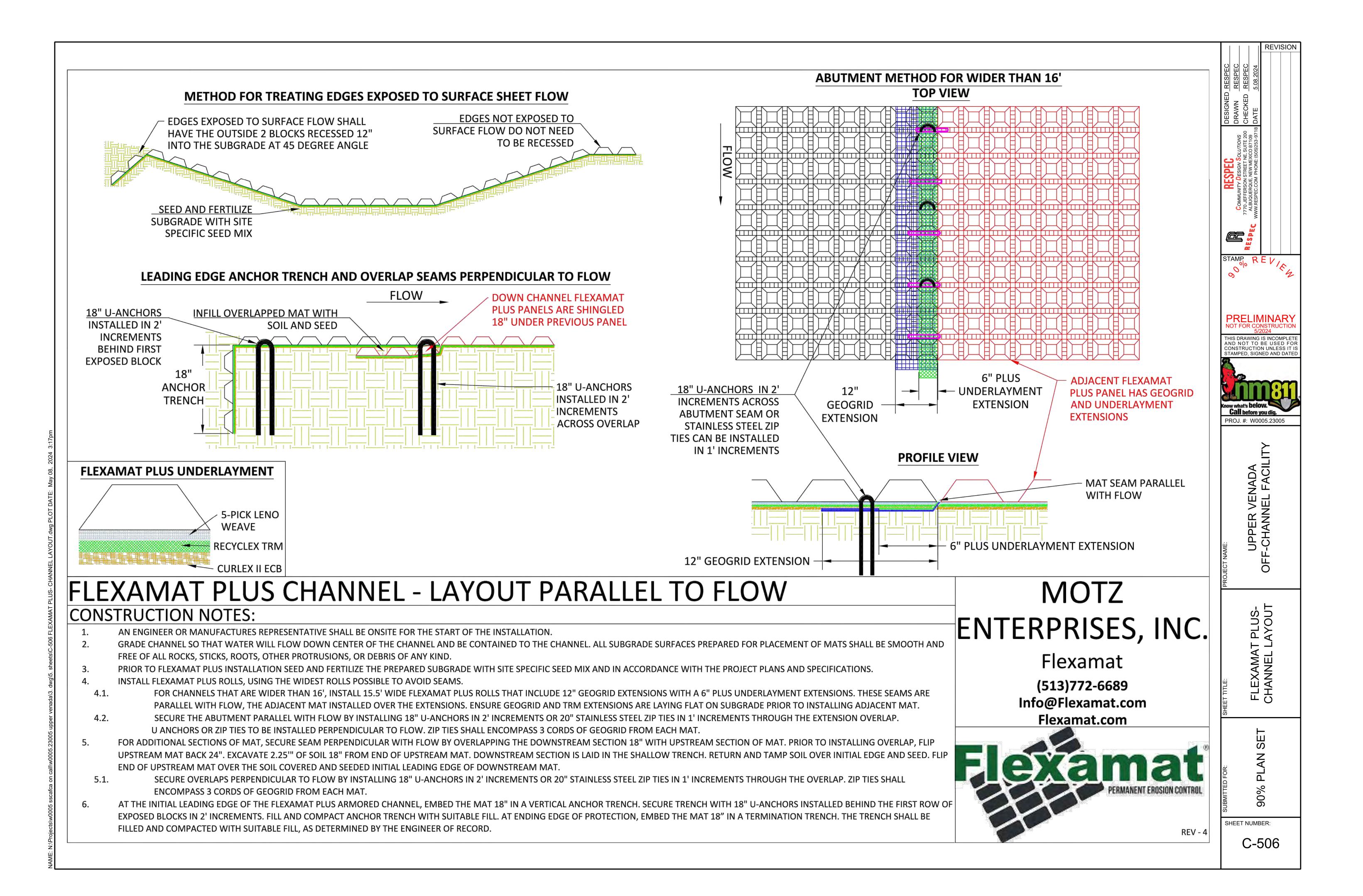
MOTZ ENTERPRISES, INC.

Flexamat (513)772-6689 Info@Flexamat.com Flexamat.com

90% PLAN SET

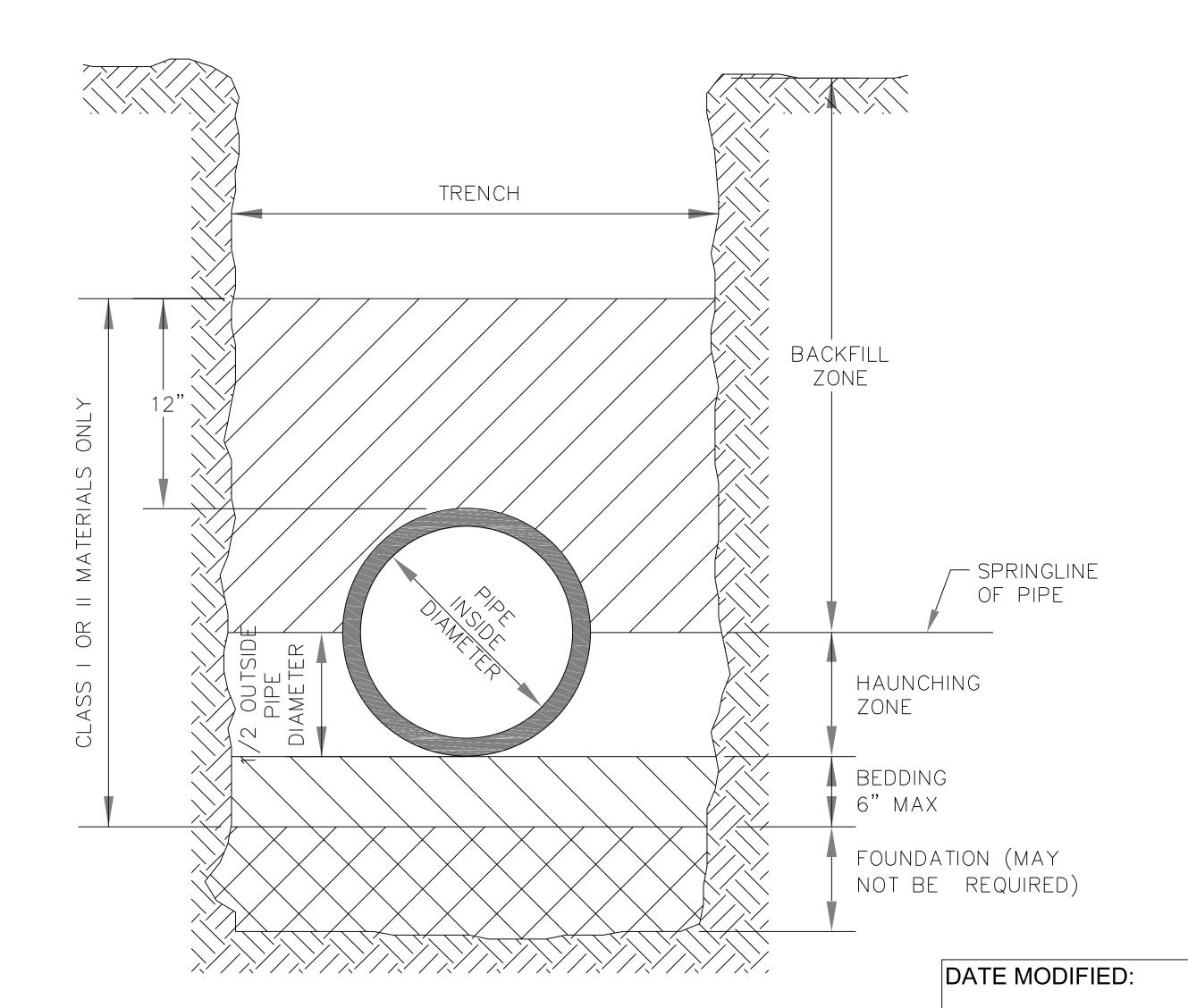
FLEXAMAT PLUS-OUTLET ARMORING

SHEET NUMBER:



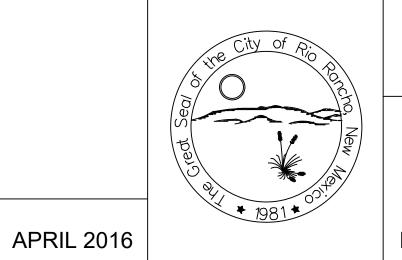
		EMBEDMENT SOILS CLASSIFICTIONS
SOILS CLASS	SOIL TYPE	DESCRIPTION
CLASS SOILS*		MANUFACTURED ANGULAR, GRANULAR MATERIAL, 1/4 TO 1 1/2 INCHES (6 TO 40 MM) SIZE, INCLUDING MATERIALS HAVING A REGIONAL SIGNIFICANCE SUCH AS CRUSHED STONE OR ROCK, BROKEN CORAL, CRUSHED SLAG, CINDERS, OR CRUSHED SHELLS, COMPLYING TO THE REQUIREMENTS OF CLASS II SOILS.
CLASS II SOILS**	GW	WELL-GRADED GRAVELS AND GRAVEL-SAND MIXTURES, LITTLE OR NO FINES. 50% OR MORE COARSE FRACTION RETAINED ON NO. 4 SIEVE. MORE THAN 95% RETAINED ON NO. 200 SIEVE. CLEAN.
CLASS II SOILS**	GP	POORLY GRADED GRAVELS AND GRAVEL—SAND MIXYURES, LITTLE OR NO FINES. 50% OR MORE COARSE FRACTION RETAINED ON NO. 4 SIEVE. MORE THAN 95% RETAINED ON NO. 200 SIEVE. CLEAN.
CLASS II SOILS**	SW	WELL GRADED SANDS AND GRAVELLY SANDS, LITTLE OR NO FINES.MORE THAN 50% OF COARSE FRACTION PASSES NO. 4 SIEVE. MORE THAN 95% RETAINED ON NO. 200 SIEVE. CLEAN.
CLASS II SOILS**	SP	POORLY GRADED SANDS AND GRAVELLY SANDS, LITTLE OR NO FINES. MORE THAN 50% OF COARSE FRACTION PASSES NO. 4 SIEVE. MORE THAN 95% RETAINED ON NO. 200 SIEVE. CLEAN.

- * SOILS ARE AS DEFINED IN ASTM D2487, EXCEPT FOR CLASS I SOILS WHICH ARE DEFINED IN ASTM D2321.
- ** IN ACCORDANCE WITH ASTM D2487, LESS THAN 5% PASSES NO. 200 SIEVE.
- FROM TABLE 701.3.A. NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2006 EDITION



GENERAL CONSTRUCTION NOTES:

- 1. BEDDING MATERIALS SHALL BE CLASSED AS DEFINED IN AMERICAN SOCIETY FOR TESTING AND MATERIALS STANDARD D2321. REFER TO TABLE 701.3.A OF THE CITY OF RIO RANCHO STANDARD SPECIFICATIONS, AS AMENDED FOR SOIL CLASSIFICATION DESCRIPTIONS.
- 2. COMPACTION TESTING SHALL BE TAKEN AT SPRINGLINE OF PIPE.
- 3. COMPACTION TESTING SHALL BE TAKEN AT INITIAL BACKFILL ZONE.
- 4. FOR PAVED AREAS, COMPACTION SHALL BE 95% STANDARD MODIFIED PROCTOR PER AMERICAN SOCIETY FOR TESTING AND MATERIALS STANDARD D1557.
- 5. FOR UNPAVED AREAS, COMPACTION SHALL BE 90% STANDARD MODIFIED PROCTOR PER AMERICAN SOCIETY FOR TESTING AND MATERIALS STANDARD D1557.



City of Rio Rancho Department of Public Works

PIPE BEDDING

DWG. NO. S-04

APRIL 22, 2016

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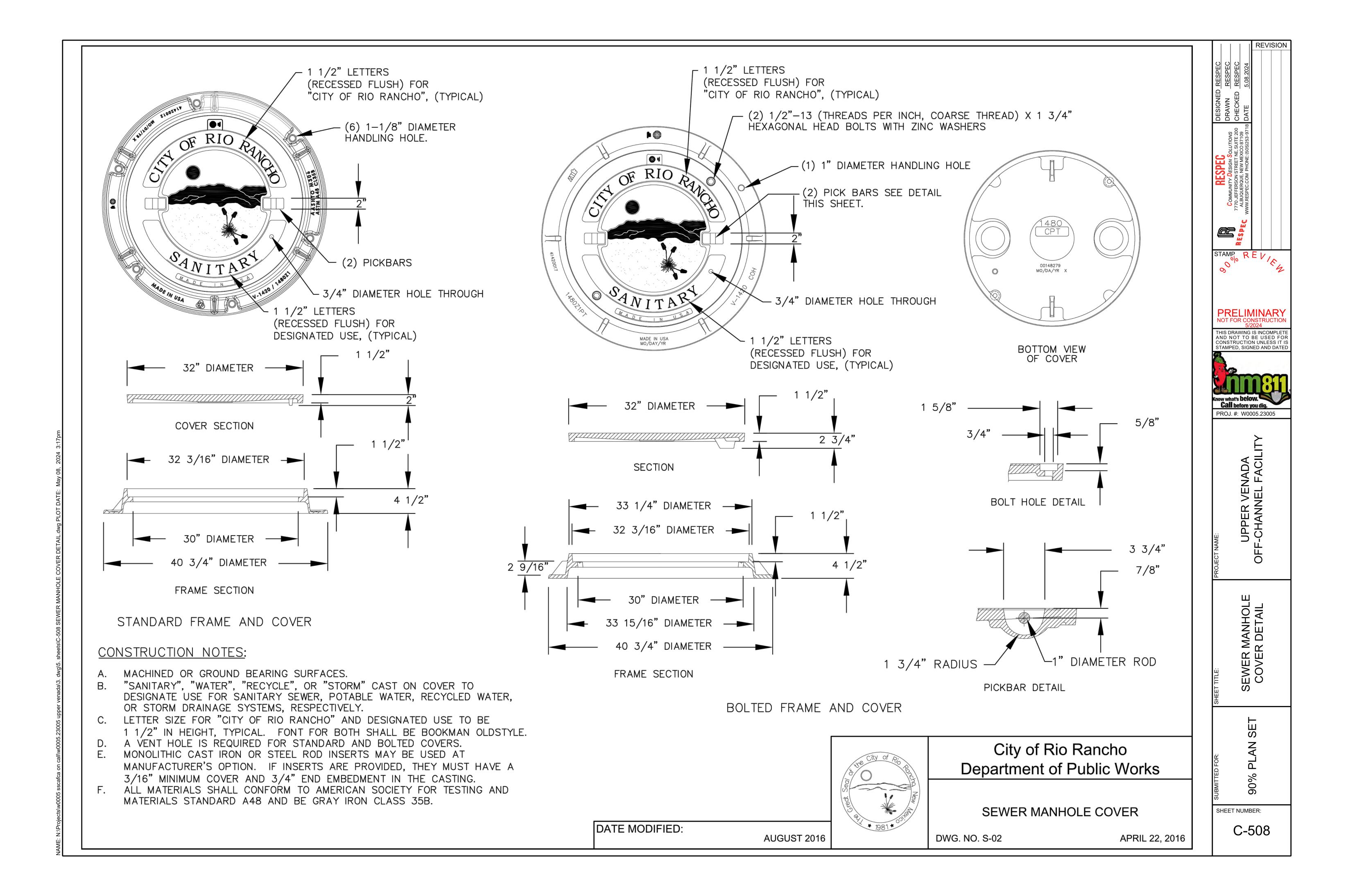
PIPE REDDIN

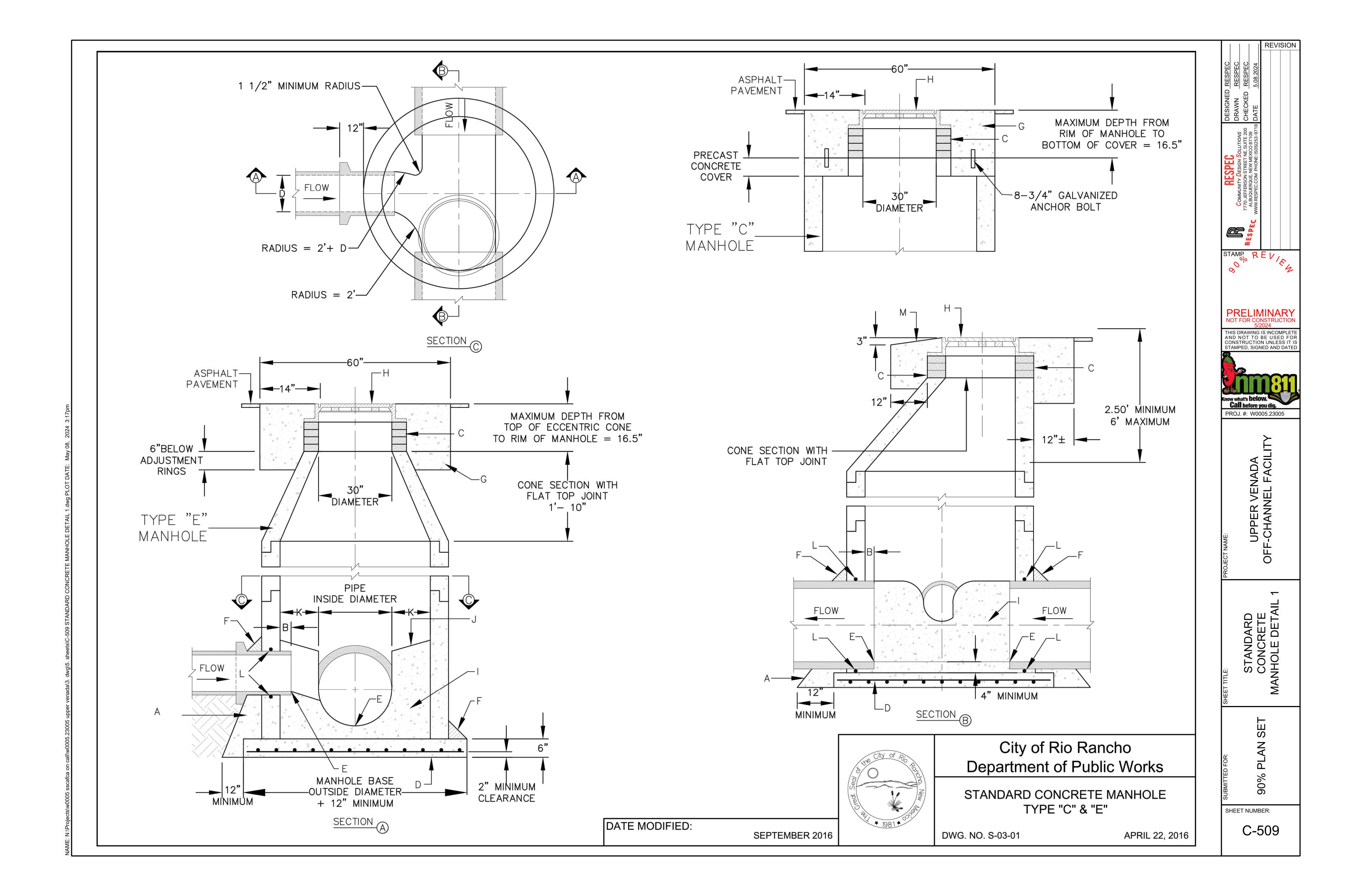
90% PLAN SET

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C-507

NAME: N:\Projects\w0005 sscafca on call\w0005.23005 upper venad





CONSTRUCTION NOTES:

- A. CONCRETE PIPE SUPPORTS SHALL EXTEND OUTSIDE OF MANHOLE TO THE BELL OF FIRST JOINT AND SHALL CRADLE PIPE TO SPRINGLINE.
- B. PIPE PENETRATION INTO MANHOLE SHALL BE FLUSH TO 2" MAXIMUM, MEASURED AT SPRINGLINE OF PIPE.
- C. ADJUSTMENT RINGS MAY BE USED TO PROVIDE A MAXIMUM 12" ADJUSTMENT.
- D. BASE TO BE POURED IN PLACE USING NUMBER 4 BARS AT 6" ON CENTER EACH WAY FOR MANHOLE DEPTH OF 16' OR GREATER. NUMBER 4 BARS AT 12" ON CENTER EACH WAY FOR MANHOLE LESS THAN 16" DEEP.
- E. INVERT ELEVATION OF STUB OR LATERAL AS SHOWN ON PLANS.
- F. 6" GROUT FILLET ON UPPER HALF OF PIPE AND AROUND BASE.
- G. USE 18" ROUND COLLAR CONCRETE PAD IN ALL AREAS.
- H. MANHOLE FRAME AND COVER, SEE DWG. S-02.
- CONCRETE FILL SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 POUNDS PER SQUARE INCH AT 28 DAYS.
- J. SLOPE 1" PER FOOT FROM PIPE CROWN.
- K. SHELF SHALL HAVE MINIMUM WIDTH OF 9".
- ALL WATERSTOP MATERIALS SHALL BE SUITABLE FOR THE TYPE OF PIPE USED.
- M. IN UNPAVED AREAS, SET FRAME TO GRADE AND SLOPE TOP OF

GENERAL NOTES:

- INSTALL NEOPRENE 0-RING ON POLYVINYL CHLORIDE PIPE AND FILL ANNULAR SPACE WITH MORTAR TO PROVIDE A WATERTIGHT SEAL.
- 2. FOR PRESSURE TYPE MANHOLE COVER USE SAME AS SHOWN WITH EIGHT (8) 1/2" X 2" 316 STAINLESS STEEL HEXAGONAL HEAD BOLTS WITH A NEOPRENE GASKET. BOLT HOLES SHALL BE PREDRILLED IN COVER AND TAPPED IN FRAME. SEE DWG. S-02.
- SANITARY SEWER SERVICES SHALL NOT BE ALLOWED IN MANHOLES.
- 4. IF THE SEWER MAIN AT A MANHOLE IS TO BE CONTINUED TO A FUTURE STREET, A 20' STUBOUT TO BE INSTALLED WITH CAP AND WITH 1% MINIMUM SLOPE.
- 5. IN UNIMPROVED AND UNPAVED ROADS, MANHOLE RIMS AND CONCRETE COLLARS ARE TO BE INSTALLED AT EXISTING ROAD
- 6. IN NATURAL AREAS, ELEVATIONS OF MANHOLE RIMS AND CONCRETE SHALL BE INSTALLED 6" ABOVE NATURAL GROUND.
- 7. USE OF ADJUSTMENT RINGS ON MANHOLES IS LIMITED TO A MAXIMUM OF 12".
- 8. USE NON-SHRINK MORTAR INSIDE AND OUTSIDE OF MANHOLE JOINTS. USE NON-SHRINK GROUT FOR JOINTS, FILLETS, AND PIPE PENETRATIONS.
- 9. ALL MANHOLE BARREL JOINTS SHALL BE SEALED USING A PRODUCT SPECIFIED BY THE MANHOLE MANUFACTURER.
- 10. TYPE "E" MANHOLES SHALL NOT TO BE USED FOR DEPTHS LESS THAN 6', FOR DEPTHS LESS THAN 6' USE TYPE "C" MANHOLES. MEASURED FROM INVERT TO RIM.
- 11. MANHOLES GREATER THAN 18' IN DEPTH SHALL BE OF PRECAST CONCRETE SECTIONS ONLY.
- 12. DESIGN APPLIES TO 4' AND 6' INSIDE DIAMETER MANHOLES.
- 13. COMPACT ALL BACKFILL AROUND MANHOLES TO 95% AMERICAN SOCIETY FOR TESTING AND MATERIALS STANDARD D1157.
- 14. POSITION MANHOLES OPENING OVER THE UPSTREAM SIDE OF MAIN LINE.
- 15. MANHOLES SHALL BE CAST-IN-PLACE OR PRECAST. BRICK MANHOLES ARE PROHIBITED.
- 16. STAMP MANHOLE COLLAR TO INDICATE DIRECTION OF FLOW WHILE CONCRETE IS GREEN.
- 17. STORM DRAIN MANHOLES SHALL HAVE STEPS.

JUNE 2018

DATE MODIFIED:

18. AN INTERIOR COATING WITH A CITY APPROVED EPOXY RESIN-TYPE MATERIAL SHALL BE APPLIED TO MANHOLES ON MAINS 12" DIAMETER AND LARGER, FORCE MAIN MANHOLES, AND DROP MANHOLES. THE APPLICATION OF COATING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS.



City of Rio Rancho Department of Public Works

STANDARD CONCRETE MANHOLE TYPE "C" & "E"

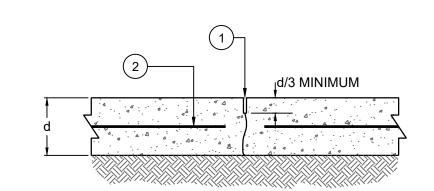
DWG. NO. S-03-02

APRIL 22, 2016

REVISION THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATE PROJ. #: W0005.23005 STANDARD CONCRETE MANHOLE DETAI

C-510

SHEET NUMBER:

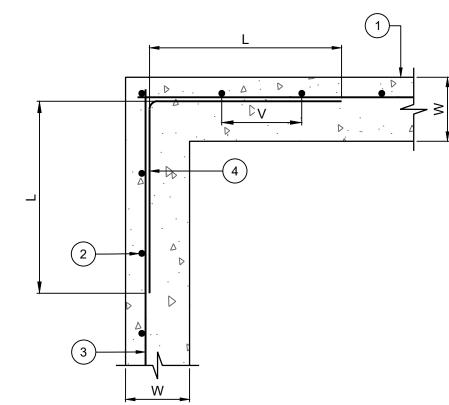


TYPICAL CONTRACTION JOINT IN SLAB

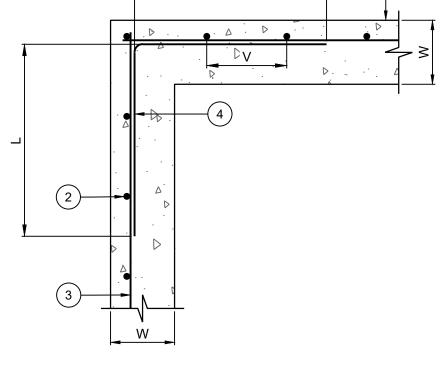
CONTRACTION JOINT, UNDOWELED

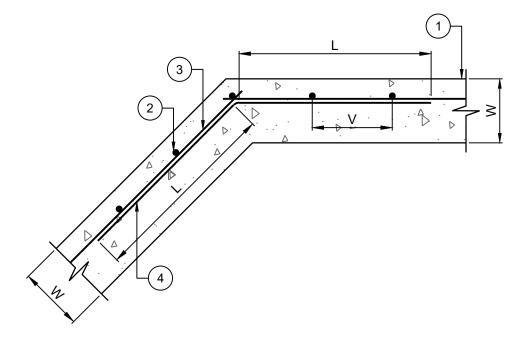
KEYED NOTES:

- (1.) 3/8" WIDE SAWCUT. CLEAN AND SEAL WITH A SILICONE SEALANT PER MANUFACTURER SPECIFICATIONS.
- (2.) REINFORCEMENT, SEE SHEETS S-601 S-607 FOR LOCATIONS.



TYPICAL WALL CORNER DETAIL





TYPICAL ANGLE WALL CORNER DETAIL

NTS

MIN. D=1 1/2" FOR #3

MIN. D=4 1/2" FOR #6

MIN. D=5 1/4" FOR #7

MIN. D=6" FOR #8

MIN. D=2" FOR #4 MIN. D=2 1/2" FOR #5

- (1.) CONCRETE WALL WIDTH (W).
- (2.) VERTICAL REINFORCING (V).
- (3.) HORIZONTAL REINFORCING.

1. ALL BENDS SHALL BE MADE COLD.

KEYED NOTES:

(1.) 1/4" TWISTED CROSS BARS WELDED TO BEARING

(2.) BEARING BAR SIZE: 3/16" x 1 3/4"

(4.) PROVIDE CORNER BARS AT OUTSIDE FACE. MATCH HORIZONTAL REINFORCING SIZE AND

KEYED NOTES:

KEYED NOTES:

(1.) CONCRETE WALL WIDTH (W).

(2.) VERTICAL REINFORCING (V).

(3.) HORIZONTAL REINFORCING.

(4.) PROVIDE CORNER BARS AT OUTSIDE FACE.

SPACING (L) MAX 24" IN LENGTH.

MATCH HORIZONTAL REINFORCING SIZE AND

SPACING (L) MAX 24" IN LENGTH.

3. CLEAR CONCRETE COVER TO REINFORCING ARE AS FOLLOWS, UNLESS NOTED A. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH B. EXPOSED TO EARTH OR WEATHER: B.1. #6 THROUGH #18.. B.2. #5 AND SMALLER..

- OVER SUPPORTS AND TOP BAR AT MIDSPAN ONLY.
- STANDARDS.
- 6. REBAR SPACING GIVEN IS MAXIMUM ON CENTER AND ALL REBAR IS CONTINUOUS UNLESS OTHERWISE NOTED. PROVIDE BENT CORNER REBAR TO MATCH AND LAP WITH HORIZONTAL REBARS AT CORNERS AND INTERSECTIONS OF WALLS. DOWEL ALL VERTICAL WALL REBAR TO FOUNDATIONS.
- CONCRETE.

1. FOR ALL STRUCTURAL STEEL FABRICATION AND CONSTRUCTION, APWA STD. SPEC. 510, LATEST AISC HANDBOOKS AND CODES SHALL APPLY. ALL STEEL FABRICATION IS REQUIRED TO BE COMPLETED BY AN APPROVED STEEL FABRICATOR RECOGNIZED BY THE BUILDING DEPARTMENT.

- 1. ALL CONSTRUCTION AND TESTING PER AMERICAN WELDING SOCIETY CODES AND RECOMMENDATIONS. ALL WELDING SHALL BE BY WELDERS HOLDING CURRENT VALID
- 3. ALL WELDING OF STRUCTURAL STEEL SHALL CONFORM TO THE "STRUCTURAL

RECTANGULAR BAR GRATING:

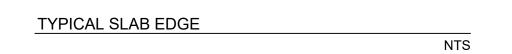
1. MATERIAL DESIGN AND MANUFACTURE SHALL BE BY McNICHOLS OR APPROVED

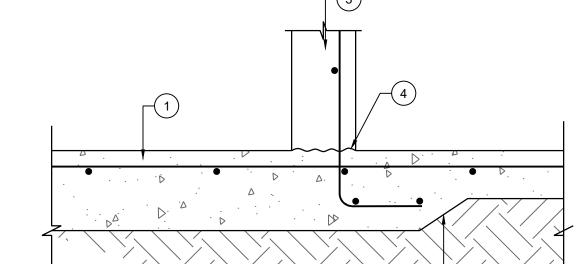
- EQUAL. PREFABRICATED RECTANGULAR BAR PANELS AS FOLLOWS:
- GALVANIZED STEEL TWISTED CROSS BARS.
- C. BAR SPACING: 1 3/16" BEARING BAR CENTERS AND 4" CROSS BAR CENTERS.
- 2. CONTRACTOR TO VERIFY PANEL LENGTHS, WIDTHS AND WEIGHTS WITH ACTUAL FIELD MEASUREMENTS AND MANUFACTURER.

<u>LEGEND</u>			
CONTRACTION JOINT			

KEYED NOTES:

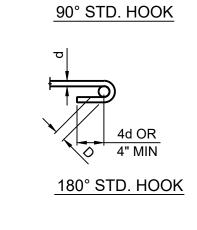
- (1.) CONCRETE SLAB ON GRADE.
- (2.) CONTINUOUS THICKENED EDGE.
- (3.) FINISH GRADE AS OCCURS.
- (4.) DEPTH OF SLAB EDGE (D).





KEYED NOTES:

- (1.) CONCRETE SLAB ON GRADE.
- (2.) THICKENED CONCRETE SLAB BENEATH CONCRETE WALL.
- (3.) CONCRETE WALL.
- (4.) ROUGHENED JOINT.

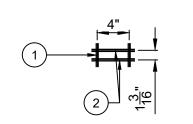


D=6d FOR #3 TO #8 D=8d FOR #9 TO #11 D=12d FOR #14 AND #18

MAX OFFSET BEND

135° STD. STIRRUP AND TIE HOOK

TYPICAL BAR BENDS



GRATE DETAIL

NTS

TYPICAL THICKENED SLAB AT WALL

LAP SPLICE LENGTHS (IN.)

	LENGTHS (IN.)					
BAR	3,000 PSI		4,000 PSI		5,000 PSI	
SIZE	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	28	21	24	18	22	17
#4	37	28	32	25	29	22
#5	46	36	40	31	36	28
#6	56	43	48	37	43	33
#7	81	62	70	54	63	48
#8	93	71	80	62	72	55
#9	104	80	90	70	81	62
#10	118	90	102	78	91	70
#11	131	100	113	87	101	78

LAP-SPLICE SCHEDULE FOR CONCRETE REINFORCING

- 1. TABULATED VALUES ARE BASED ON GRADE 60 UNCOATED REINFORCING BARS, NORMAL WEIGHT CONCRETE AND MINIMUM COVER OF dh WITH MINIMUM CLEAR SPACING OF 2d_b.
- 2. TENSION LAP SPLICES ARE CALCULATED PER ACI 318 SECTIONS 12.2 AND 12.15.
- 3. FOR GRADE 40 REINFORCING BARS MULTIPLY THE TABULATED VALUES BY 0.67 (12" MINIMUM
- 4. FOR LIGHT WEIGHT CONCRETE MULTIPLY THE TABULATED VALUES BY 1.3.
- 5. ALL LAP SPLICES ARE CLASS B SPLICES PER ACI 318 SECTION 12.15.

SCALE: 1"= 1'

STRUCTURAL NOTES

- 1. FOOTINGS SHALL BEAR ON A MINIMUM OF 12 INCHES OF ADEQUATELY PLACED AND COMPACTED STRUCTURAL FILL. SOIL BENEATH FOOTINGS SHALL BE SCARIFIED TO A DEPTH OF 12 INCHES, MOISTURE CONDITIONED TO OPTIMUM MOISTURE CONTENT ±2% AND COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM-D-698. ALL STRUCTURAL FILL SHALL BE CLASS I OR II SOILS IN ACCORDANCE WITH APWA STD. SPEC. 501. REFER TO GEOTECHNICAL ENGINEERING REPORT FOR GUIDANCE.
- 2. ALL EARTHWORK, FOOTING DEPTHS, AND EXCAVATIONS FOR FOUNDATIONS SHALL BE INSPECTED TO VERIFY ASSUMED ALLOWABLE SOIL BEARING AND LOW SETTLEMENT AND SWELL POTENTIAL. ASSUMED ALLOWABLE BEARING = 2000 PSF.
- 3. SAWCUT SLAB AFTER CONCRETE IS HARD ENOUGH TO AVOID SPALLING AND DAMAGE BUT NO LATER THAN 12 HOURS AFTER CONCRETE PLACEMENT.DEPTH OF CUT (D) =d/3. REFER TO JOINTING PLAN S-608 FOR LOCATIONS.

UNLESS NOTED OTHERWISE, CONCRETE SHALL BE IN ACCORDANCE WITH APWA STD. SPEC. 510 FOR CONCRETE WITH MINIMUM COMPRESSIVE STRENGTH Fc=4000 PSI AT 28 DAYS. ALL REINFORCING STEEL SHALL BE BLACK, GRADE 60 CONFORMING TO

	ASTM A615.	
3.	A. MAXIMUM SLUMP:B. MAXIMUM AGGREGATE SIZE:	1" 6% ± 1 1/2%
3.	D. MAXIMUM W/C RATIO: FINISH SHALL BE ORDINARY SURFACE FINISH IN ACCORDANCE WITH	

SPECIFIED STRENGTH AT 28 DAYS. 4. BACKFILL (WHERE OCCURS) SHALL NOT BE PLACED BEHIND HEADWALLS UNTIL

510. MINIMUM STRENGTH FOR REMOVAL OF FORMS AND SHORING SHALL BE 75% OF

CONCRETE HAS ATTAINED 100% OF DESIGN STRENGTH.

1. LATEST ACI CODE AND DETAILING MANUAL APPLY. ALL REINFORCING BARS

- DEFORMED.
- 2. ALL REINFORCING SHALL BE ASTM A-615 GRADE 60.
-1 1/2"
- 4. LAP SPLICES IN CONCRETE SHALL BE CLASS B TENSION LAPS. SPLICE BOTTOM BAR
- 5. PROVIDE SHOP DRAWINGS AND FABRICATE AFTER REVIEW. PLACE REBAR PER CRSI
- 7. SECURELY TIE ALL REBAR, INCLUDING DOWELS, IN LOCATION BEFORE PLACING

- 2. ASTM A-36, EXCEPT AS FOLLOWS: WIDE FLANGE SECTIONS, ASTM A992 GRADE 50.
- 3. HIGH STRENGTH BOLTS, A-325-X OR A-325-SC.

- CERTIFICATES AND HAVING CURRENT EXPERIENCE IN TYPE OF WELD CALLED FOR.
- 2. WELDING RODS SHALL BE LOW HYDROGEN TYPE, E70.
- WELDING CODES-STEEL" AWS D1.1, CURRENT EDITION.

1. GRATE LIVE LOAD: 100 PSF. DESIGN LOADS IN ACCORDANCE WITH ASCE/SEI 7-16.

- A. MATERIAL: HOT-DIPPED GALVANIZED STEEL BEARING BARS AND 1/4" SQUARE
- B. BEARING BAR SIZE: 3/16"x1 3/4"

<u>LEGEND</u>			
CONTRACTION JOINT			

SHEET NUMBER:

REVISION

NOT FOR CONSTRUCTION

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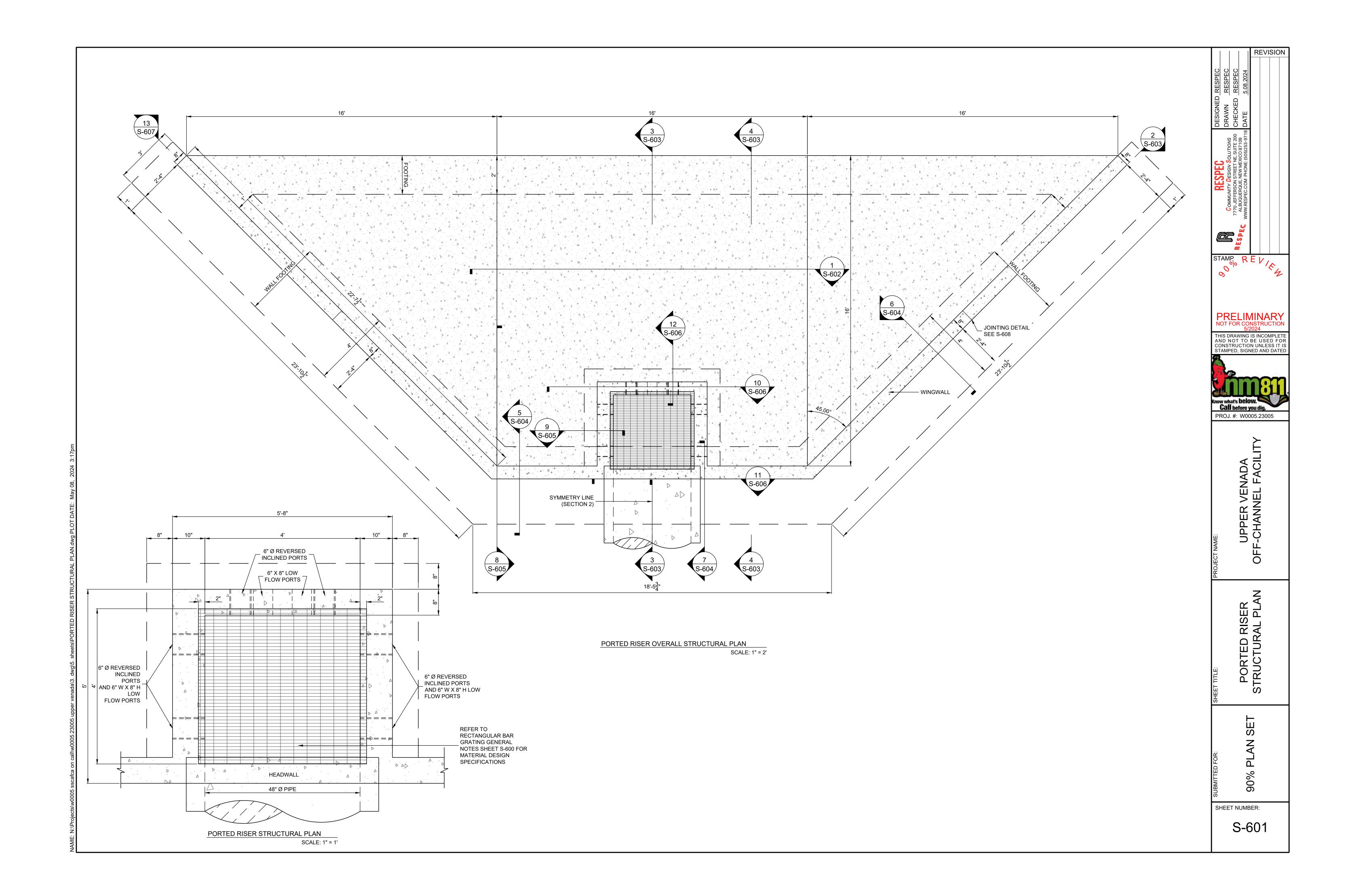
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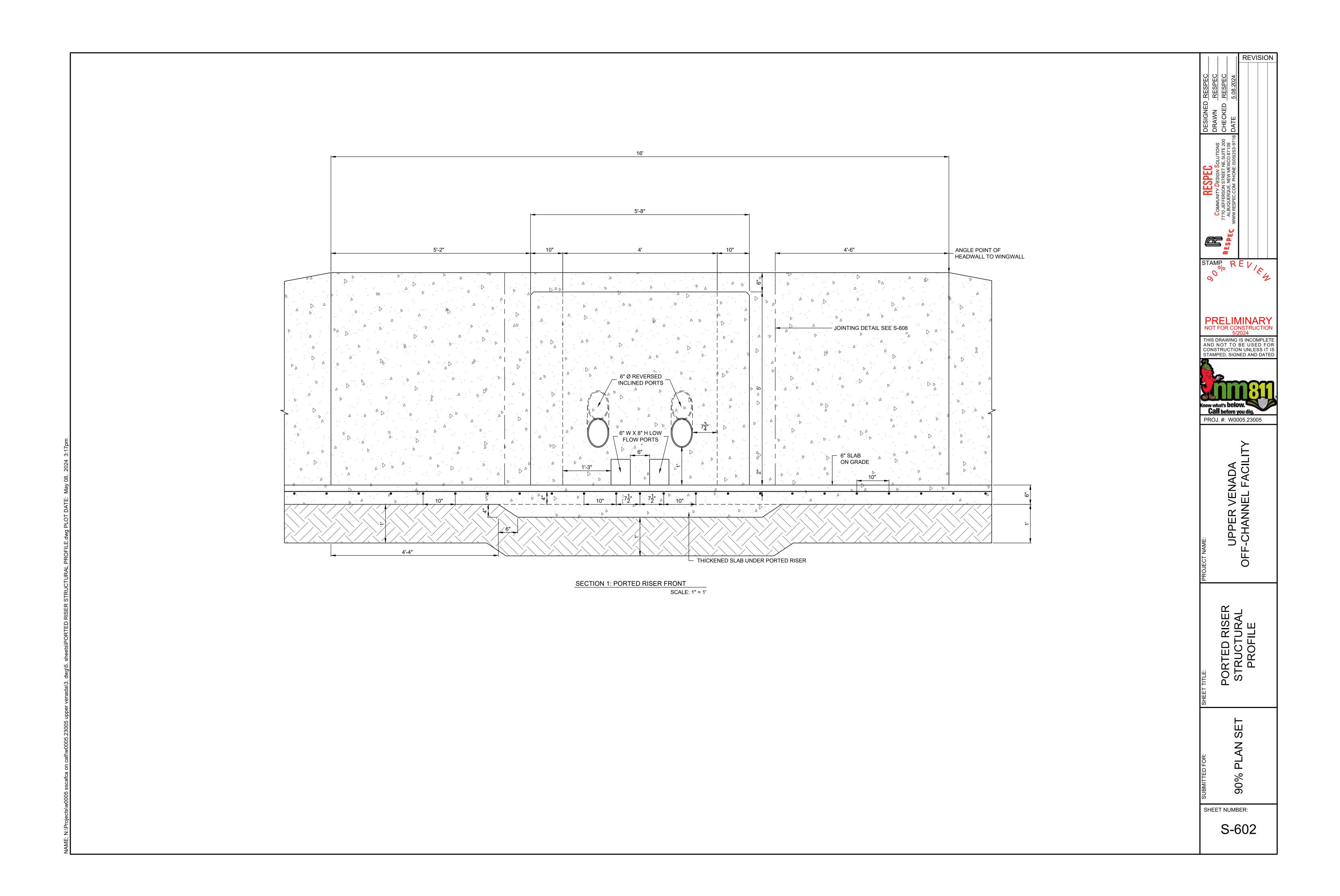
UPPER VENAD, :-CHANNEL FAC

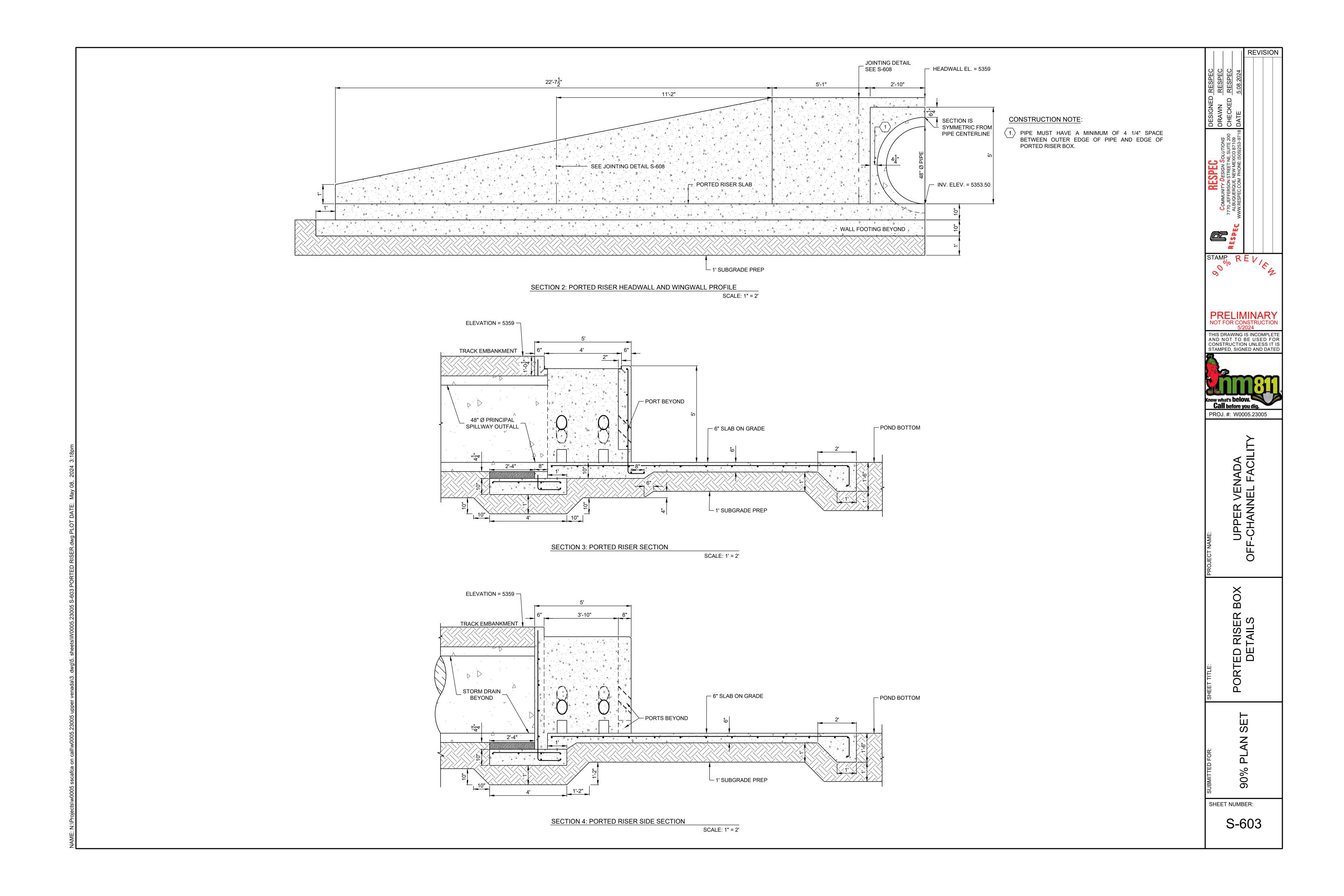
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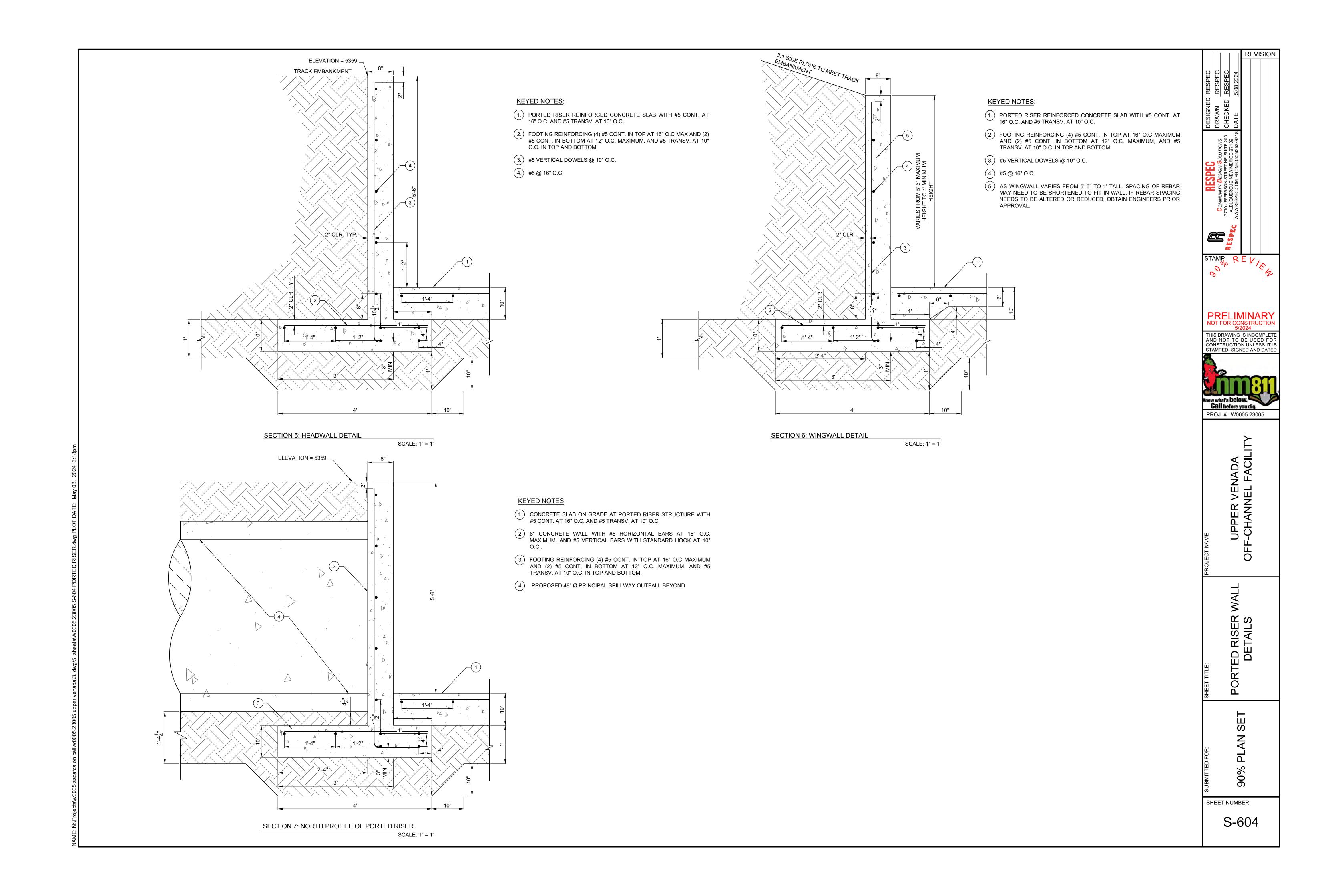
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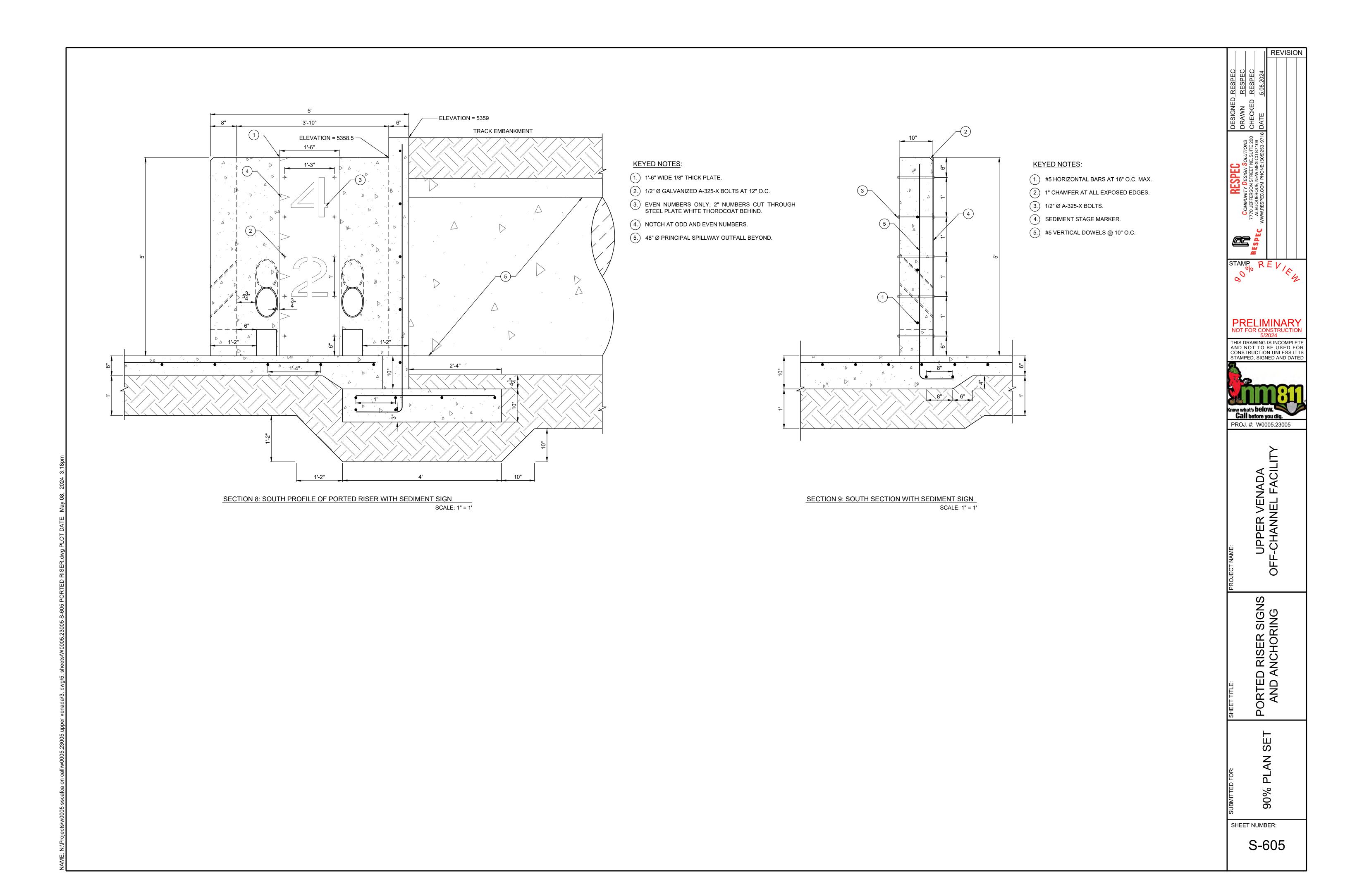
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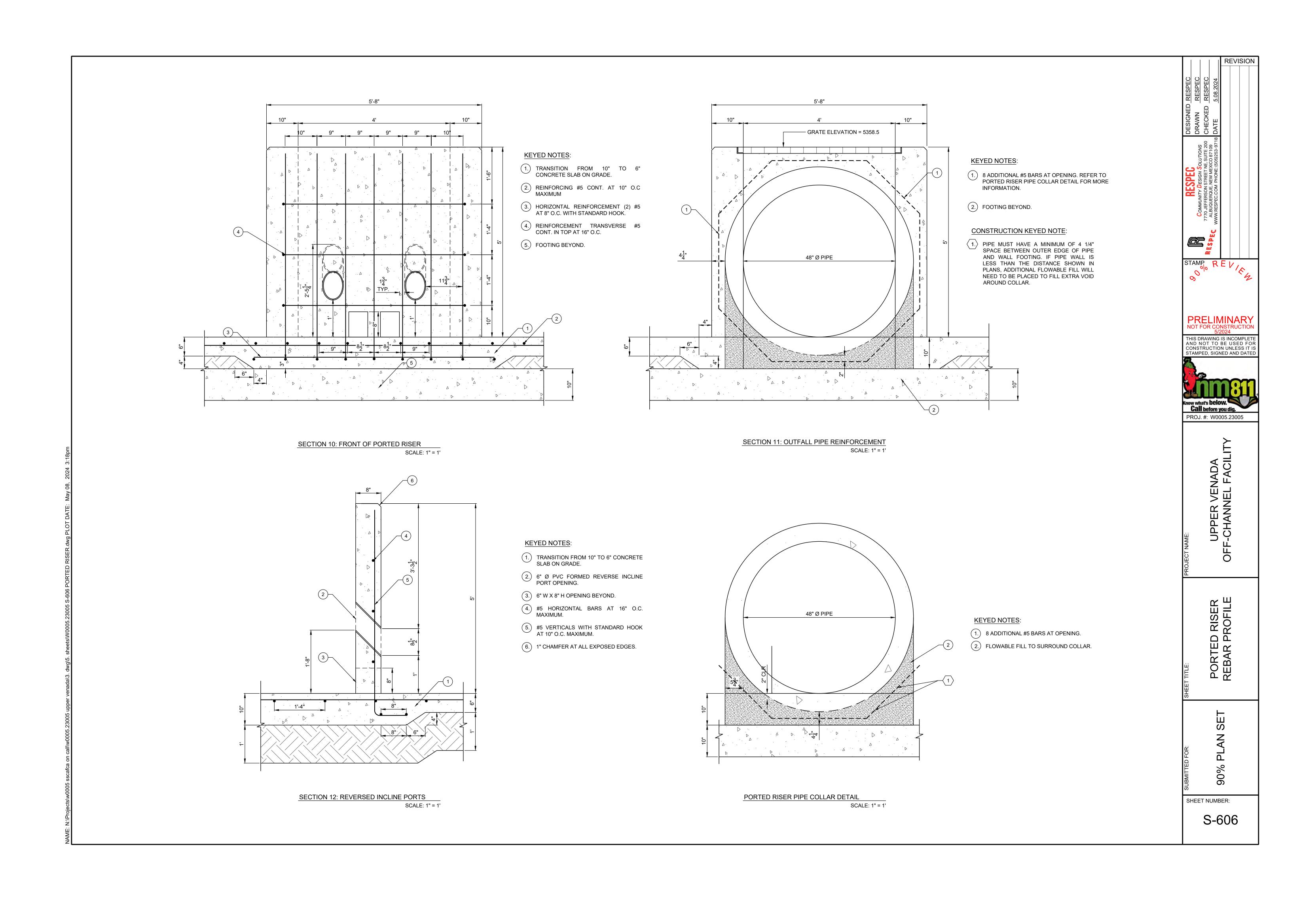


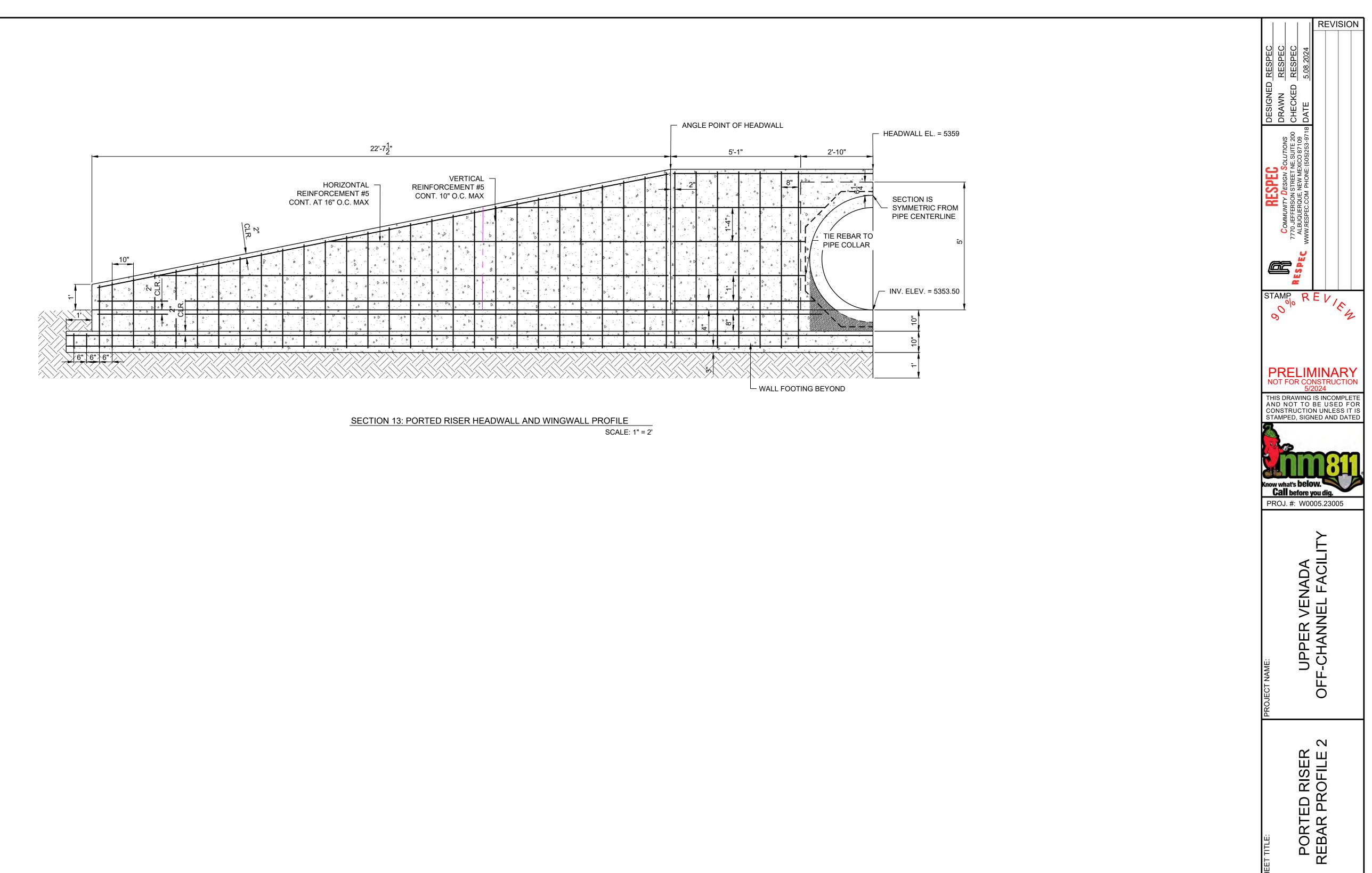








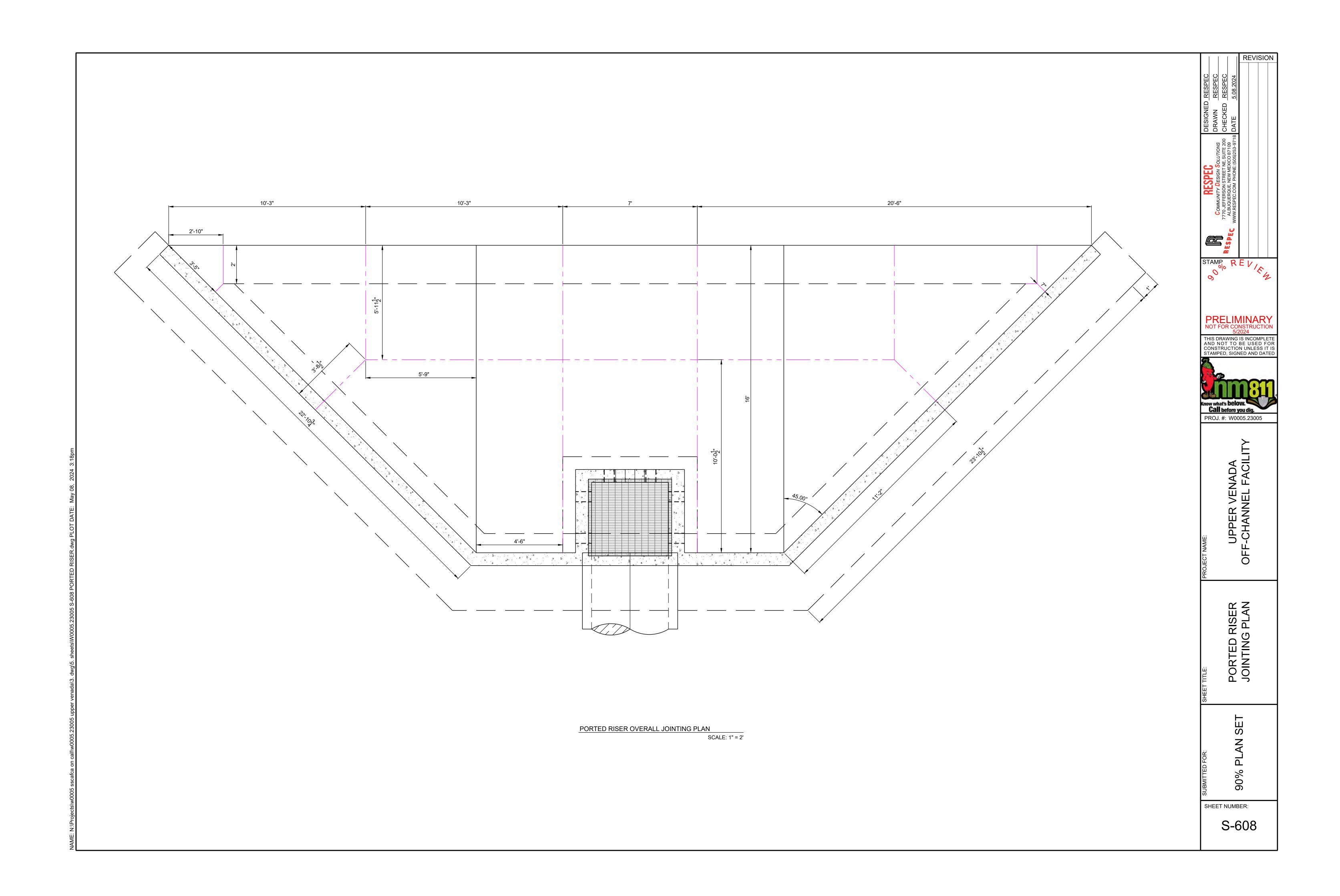


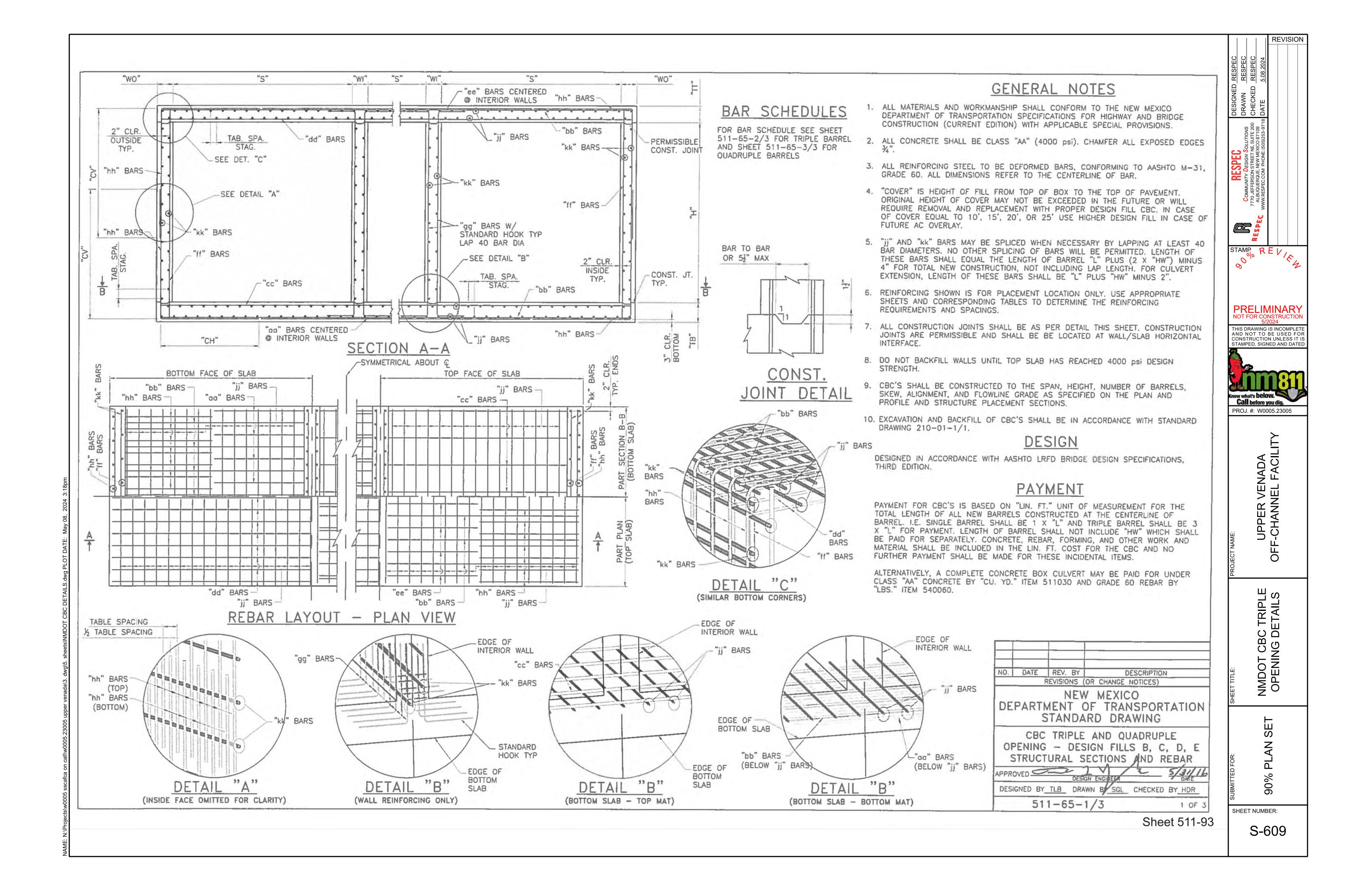


SHEET NUMBER:

S-607

REVISION





TRIPLE OPENING BOX CULVERT STRUCTURE DIMENSIONS	GRADE 60 REINFORCING BAR SCH	EDULE (BAR SIZE, SPACING AND LENGTH DIMENSIONS	
DIM DESIGN FILL "B" 15-20 FT BURIAL 20-25 FT BURIAL 25-30 FT BURIAL DESIGN FILL "C" DESIGN FILL "D" DESIGN FILL "E"	"aa" "ee" "aa" & "ee" "bb" "cc" "dd" "bb" & "cc", & "dd"	"ff" "gg" "ff" & "gg" ** "hh"	"jj" "kk"
SPAN "S" INSIDE HEIGHT "H" INSIDE TOP SLAB "TT" BOTTOM SLAB "TB" WALLS OUTER "WO" WALLS INTERIOR "WI" TOP SLAB "TT" WALLS OUTER "WO" WALLS OUTER "WI" TOP SLAB "TT" TOP SLAB "TT" TOP SLAB "TT" TOP SLAB "TT" WALLS OUTER "WI" "TB" WALLS OUTER "WO" WALLS OUTER "WO" WALLS OUTER "WO"	SIZE SPACING SIZE SPACING SIZE SPACING NO. OF BARS SIZE SPACING SIZE SPACING SIZE SPACING SIZE SPACING LENGTH FOR 20–25 FT. FILL	SIZE SPACING SIZE SPACING SIZE LENGTH FOR 10–15 FT. FILL LENGTH FOR 20–25 FT. FILL SIZE SPACING "CH" LENGTH FOR 10–15 FT. FILL "CV" LENGTH FOR 10–15 FT. FILL "CV" LENGTH FOR 15–20 FT. FILL	SIZE STAGGERED SPACING SIZE STAGGERED SPACING
4' 2' 8.0" 8.5" 8.0" 6.0" 8.0" 9.5" 7.0" 6.0" 8.5" 10.0" 8.0" 6.0" 10.0" 11.5" 9.0" 6.0"	' #6 16'' #6 16'' 5'-7" 2 #6 16'' #8 16'' #8 16'' 14'-0" 14'-5" 14'-0" 14'-2"		, #4 6°° #4 6°°
4' 3' 8.0" 8.5" 8.0" 6.0" 8.0" 9.5" 7.0" 6.0" 8.5" 10.0" 8.0" 6.0" 10.0" 11.5" 9.0" 6.0"			
4' 4' 8.0" 8.5" 8.0" 6.0" 8.0" 9.5" 7.0" 6.0" 8.5" 10.0" 8.0" 6.0" 10.0" 11.5" 9.0" 6.0" 6' 2' 9.0" 9.5" 8.0" 6.0" 11.0" 8.0" 6.0" 11.5" 12.5" 9.0" 6.0" 14.0" 15.5" 10.5" 6.0"			- "
6' 3' 9.0" 9.5" 8.0" 6.0" 10.0" 11.0" 8.0" 6.0" 11.5" 12.5" 9.0" 6.0" 14.0" 15.5" 10.5" 6.0"			
6' 4' 9.0" 9.5" 8.0" 6.0" 10.0" 11.0" 8.0" 6.0" 11.5" 12.5" 9.0" 6.0" 14.0" 15.5" 10.5" 6.0"			" #4 6" #4 6"
6' 5' 9.0" 9.5" 8.0" 6.0" 10.0" 11.0" 8.0" 6.0" 11.5" 12.5" 9.0" 6.0" 14.0" 15.5" 10.5" 6.0"			
6' 6' 9.0" 9.5" 8.0" 6.0" 10.0" 11.0" 8.0" 6.0" 11.5" 12.5" 9.0" 6.0" 14.0" 15.5" 10.5" 6.0" 6.0" 7' 9.0" 9.5" 8.0" 6.0" 10.0" 11.0" 8.0" 6.0" 11.5" 12.5" 9.0" 6.0" 14.0" 15.5" 10.5" 6.0" 6.0" 10.5" 6.0" 11.5" 12.5" 9.0" 6.0" 14.0" 15.5" 10.5" 6.0" 6.0" 11.5" 12.5" 9.0" 6.0" 14.0" 15.5" 10.5" 10.5" 6.0" 11.5" 12.5" 9.0" 6.0" 14.0" 15.5" 10.5" 10.5" 6.0" 11.5" 12.5" 9.0" 6.0" 14.0" 15.5" 10.5"		#8 18'' #4 12" 7'-1" 7'-4" 7'-7" 8'-0" #6 6'' 37'' 53'' 55'' 56'' 59'' #8 18'' #4 12" 8'-1" 8'-4" 8'-7" 9'-0" #6 6'' 37'' 59'' 61'' 62'' 65''	
8' 4' 10.0" 11.0" 9.0" 6.5" 12.0" 13.5" 10.0" 6.5" 14.5" 15.5" 12.0" 6.5" 17.5" 18.5" 13.5" 6.5"			
8' 5' 10.0" 11.0" 9.0" 6.5" 12.0" 13.5" 10.0" 6.5" 14.5" 15.5" 12.0" 6.5" 17.5" 18.5" 13.5" 6.5"	' #7 12'' #7 12'' 8'-6" 2 #7 12'' #6 6'' #8 12'' 26'-3" 27'-7" 26'-9" 27'-0"	#7 12" #4 12" 6'-4" 6'-8" 7'-0" 7'-7" #6 6" 42" 49" 51" 53" 56"	, #4 6°° #4 6°°
8' 6' 10.0" 11.0" 9.0" 6.5" 12.0" 13.5" 10.0" 7.0" 14.5" 15.5" 12.0" 7.0" 17.5" 18.5" 13.5" 7.0" 8' 7' 10.0" 11.0" 9.0" 7.0" 12.0" 13.5" 10.0" 7.5" 14.5" 15.5" 12.0" 7.5" 17.5" 18.5" 13.5" 7.5"	' #7 12'' #7 12'' 8'-6" 2 #7 12'' #6 6'' #8 12'' 26'-3" 27'-7" 26'-10" 27'-1" ' #7 12'' #7 12'' 8'-6" 2 #7 12'' #6 6'' #8 12'' 26'-4" 27'-7" 26'-11" 27'-2"	#7 12'' #4 12" 7'-4" 7'-8" 8'-1" 8'-7" #6 6'' 42'' 55'' 57'' 59'' 62'' #7 12'' #4 12" 8'-4" 8'-8" 9'-1" 9'-7" #6 6'' 42'' 61'' 63'' 65'' 68''	' #4 6" #4 6" ' #4 6" #4 6"
8' 8' 10.0" 11.0" 9.0" 7.0" 12.0" 13.5" 10.0" 8.0" 14.5" 15.5" 12.0" 8.0" 17.5" 18.5" 13.5" 8.0"	' #7 12'' #7 12'' 8'-6" 2 #7 12'' #6 6'' #8 12'' 26'-4" 27'-7" 27'-0" 27'-3"	#7 12" #4 12" 9'-4" 9'-8" 10'-1" 10'-7" #6 6" 42" 67" 69" 71" 74"	#4 6" #4 6" #4 6" #4 6"
10' 3' 12.0" 12.5" 9.0" 7.0" 14.5" 15.5" 10.0" 7.5" 17.0" 18.5" 11.0" 7.5" 21.0" 22.0" 12.5" 7.5"	' #8 12'' #8 12'' 10'-10" 2 #8 12'' #6 6'' #6 6'' 32'-4" 33'-11" 32'-9" 33'-0"	#7 6" #4 12" 4'-7" 5'-0" 5'-6" 6'-1" #7 6" 49" 41" 44" 46" 50"	, #5 6°° #4 6°°
10' 4' 12.0" 12.5" 9.0" 7.0" 14.5" 15.5" 10.0" 8.0" 17.0" 18.5" 11.0" 8.0" 21.0" 22.0" 12.5" 8.0"	' #8 12'' #8 12'' 10'-10" 2 #8 12'' #6 6'' #6 6'' 32'-4" 33'-11" 32'-10" 33'-1"	#7 6" #4 12" 5'-7" 6'-0" 6'-6" 7'-1" #7 6" 49" 47" 50" 52" 56"	' #5 6'' #4 6''
10' 5' 12.0" 12.5" 9.0" 7.0" 14.5" 15.5" 10.0" 8.0" 17.0" 18.5" 11.0" 8.0" 21.0" 22.0" 12.5" 8.0"	' #8 12'' #8 12'' 10'-10" 2 #8 12'' #6 6'' #6 6'' 32'-4" 33'-11" 32'-10" 33'-1" ' #8 12'' #8 12'' 10'-10" 2 #8 12'' #6 6'' #6 6'' 32'-4" 33'-11" 32'-10" 33'-1"	#7 6" #4 12" 6"-7" 7'-0" 7'-6" 8'-2" #7 6" 49" 53" 56" 58" 62" #7 6" #4 12" 7'-7" 8'-1" 8'-6" 9'-2" #7 6" 49" 59" 62" 64" 68"	#5 6" #4 6" #5 6" #4 6"
10' 7' 12.0" 12.5" 9.0" 7.5" 14.5" 15.5" 10.0" 8.5" 17.0" 18.5" 11.0" 8.5" 21.0" 22.0" 12.5" 8.5"	' #8 12'' #8 12'' 10'-10" 2 #8 12'' #6 6'' #6 6'' 32'-5" 33'-11" 32'-11" 33'-2"	#7 6" #4 12" 8'-7" 9'-1" 9'-6" 10'-2" #7 6" 49" 65" 68" 70" 74"	#5 6" #4 6" #5 6" #4 6"
10' 8' 11.5" 12.0" 11.0" 8.0" 14.5" 15.5" 12.5" 8.5" 17.0" 18.5" 17.0" 8.5" 21.0" 22.0" 20.5" 8.5"	' #8 12'' #8 12'' 10'-11" 2 #8 12'' #6 6'' #6 6'' 32'-10" 34'-4" 33'-11" 34'-6"	#8 12" #4 12" 9'-6" 10'-1" 10'-6" 11'-2" #7 6" 57" 70" 74" 76" 80"	, #5 6 ¹¹ #4 6 ¹¹
10' 9' 11.5" 12.0" 11.0" 8.5" 14.5" 15.5" 12.5" 9.0" 17.0" 18.5" 17.0" 9.0" 21.0" 22.0" 20.5" 9.0"	' #8 12'' #8 12'' 10'-11" 2 #8 12'' #6 6'' #6 6'' 32'-11" 34'-4" 34'-0" 34'-7"	#8 12" #4 12" 10'-6" 11'-1" 11'-6" 12'-2" #7 6" 57" 76" 80" 82" 86"	<u>'</u> #5 6'' #4 6''
10' 10' 11.5" 12.0" 11.0" 9.0" 14.5" 15.5" 12.5" 9.5" 17.0" 18.5" 17.0" 9.5" 21.0" 22.0" 20.5" 9.5"	' #8 12'' #8 12'' 10'-11" 2 #8 12'' #6 6'' #6 6'' 33'-0" 34'-4" 34'-1" 34'-8" ' #8 12'' #8 12'' 10'-11" 2 #8 12'' #6 6'' #6 6'' 33'-0" 34'-4" 34'-1" 34'-8"	#8 12" #4 12" 11'-6" 12'-1" 12'-6" 13'-2" #7 6" 57" 82" 86" 88" 92" #8 12" #4 12" 12'-6" 13'-1" 13'-6" 14'-2" #7 6" 57" 88" 92" 94" 98"	#5 6" #4 6" #5 6" #4 6"
10' 12' 11.5" 12.0" 11.0" 10.0" 14.5" 15.5" 12.5" 9.5" 17.0" 18.5" 17.0" 9.5" 21.0" 22.0" 20.5" 9.5"	' #8 12'' #8 12'' 10'-11" 2 #8 12'' #6 6'' #6 6'' 33'-2" 34'-4" 34'-1" 34'-8"		" #5 6" #4 6"
12' 6' 14.0" 13.5" 11.0" 10.0" 17.5" 18.0" 12.5" 8.5" 21.0" 21.0" 17.0" 8.5" 25.5" 25.5" 19.5" 8.5"	' #9 12'' #8 12'' 13'-5" 2 #9 12'' #6 6'' #6 6'' 39'-2" 40'-9" 39'-11" 40'-4"	#8 12" #4 12" 7'-10" 8'-6" 9'-1" 9'-10" #8 6" 66" 64" 68" 72" 76"	' #5 6'' #4 6''
12' 7' 14.0" 13.5" 11.0" 10.0" 17.5" 18.0" 12.5" 10.0" 21.0" 21.0" 17.0" 10.0" 25.5" 25.5" 19.5" 10.0	" #9 12" #8 12" 13'-5" 2 #9 12" #6 6" #6 6" 39'-2" 40'-9" 40'-2" 40'-7"	#8 12" #4 12" 8'-10" 9'-6" 10'-1" 10'-10" #8 6" 67" 70" 74" 78" 82"	<u>'</u> #5 6'' #4 6''
12' 8' 14.0" 13.5" 11.0" 10.0" 17.5" 18.0" 12.5" 10.0" 21.0" 21.0" 17.0" 10.0" 25.5" 25.5" 19.5" 10.0 12' 9' 14.0" 13.5" 11.0" 10.0" 17.5" 18.0" 12.5" 10.0" 21.0" 21.0" 17.0" 10.0" 25.5" 25.5" 19.5" 10.0	" #9 12" #8 12" 13'-5" 2 #9 12" #6 6" #6 6" 39'-2" 40'-9" 40'-2" 40'-7" " #9 12" #8 12" 13'-5" 2 #9 12" #6 6" #6 6" 39'-2" 40'-9" 40'-2" 40'-7"	#8 12" #4 12" 9'-10" 10'-6" 11'-1" 11'-10" #8 6" 67" 76" 80" 84" 88" #8 12" #4 12" 10'-10" 11'-6" 12'-1" 12'-10" #8 6" 67" 82" 86" 90" 94"	#5 6" #4 6" #5 6" #4 6"
*12' 10' 14.0" 13.5" 11.0" 10.5" 17.5" 18.0" 12.5" 11.0" 21.0" 21.0" 17.0" 10.0 25.5" 25.5" 19.5" 11.0	" #9 12" #8 12" 13'-5" 2 #9 12" #6 6" #6 6" 39'-3" 40'-9" 40'-4" 40'-9"	#8 12" #4 12" 11'-10" 12'-6" 13'-1" 13'-10" #8 6" 67" 88" 92" 96" 100'	" #5 6" #4 6"
12' 12' 14.0" 13.5" 11.0" 10.5" 17.5" 18.0" 12.5" 11.0" 21.0" 21.0" 17.0" 11.0" 25.5" 25.5" 19.5" 11.0	" #9 12" #8 12" 13'-5" 2 #9 12" #6 6" #6 6" 39'-3" 40'-9" 40'-4" 40'-9"	#8 12" #4 12" 13'-10" 14'-6" 15'-1" 15'-10" #8 6" 67" 100" 104" 108" 112	" #5 6" #4 6"
14' 8' 14.5" 16.0" 12.5" 10.0" 19.5" 20.5" 14.5" 11.0" 23.5" 24.5" 20.5" 11.0" 28.5" 30.0" 24.5" 11.0	" #9 12" #9 12" 14'-5" 2 #9 12" #7 6" #7 6" 45'-5" 47'-6" 46'-11" 47'-7" " #9 12" #9 12" 14'-5" 2 #9 12" #7 6" #7 6" 45'-5" 47'-6" 46'-11" 47'-7"	#8 12'' #4 12" 10'-1" 10'-11" 11'-7" 12'-5" #8 6'' 74'' 78'' 83'' 87'' 92''	/ #5 6" #5 6"
14' 9' 14.5" 16.0" 12.5" 10.0" 19.5" 20.5" 14.5" 11.0" 23.5" 24.5" 20.5" 11.0" 28.5" 30.0" 24.5" 11.0 14' 10' 14.5" 16.0" 12.5" 10.0" 19.5" 20.5" 14.5" 11.0" 23.5" 24.5" 20.5" 11.0" 28.5" 30.0" 24.5" 11.0	'' #9 12'' #9 12'' 14'-5" 2 #9 12'' #7 6'' #7 6'' 45'-5" 47'-6" 46'-11" 47'-7" '' #9 12'' #9 12'' 14'-5" 2 #9 12'' #7 6'' #7 6'' 45'-5" 47'-6" 46'-11" 47'-7"	#8 12'' #4 12" 11'-1" 11'-11" 12'-7" 13'-5" #8 6'' 74'' 84'' 89'' 93'' 98'' #8 12'' #4 12" 12'-1" 12'-11" 13'-7" 14'-5" #8 6'' 74'' 90'' 95'' 99'' 104'	#5 6" #5 6" " #5 6" #5 6"
14' 11' 14.5" 16.0" 12.5" 10.0" 19.5" 20.5" 14.5" 11.5" 23.5" 24.5" 20.5" 11.5" 28.5" 30.0" 24.5" 11.5		#8 12" #4 12" 13'-1" 13'-1" 14'-7" 15'-5" #8 6" 74" 96" 101" 105" 110'	
14' 12' 14.5" 16.0" 12.5" 10.5" 19.5" 20.5" 14.5" 12.0" 23.5" 24.5" 20.5" 12.0" 28.5" 30.0" 24.5" 12.0	" #9 12" #9 12" 14'-5" 2 #9 12" #7 6" #7 6" 45'-6" 47'-6" 47'-0" 47'-9"	#8 12" #4 12" 14'-1" 14'-1" 15'-7" 16'-5" #8 6" 74" 102" 107" 111" 116'	" #5 6" #5 6"
14' 13' 14.5" 16.0" 12.5" 10.5" 19.5" 20.5" 14.5" 12.0" 23.5" 24.5" 20.5" 12.0" 28.5" 30.0" 24.5" 12.0			" #5 6" #5 6"
14' 14' 14.5" 16.0" 12.5" 12.0" 19.5" 20.5" 14.5" 13.5" 23.5" 24.5" 20.5" 13.5" 28.5" 30.0" 24.5" 13.5	'' #9 12'' #9 12'' 14'-6" 2 #9 12'' #7 6'' #7 6'' 45'-9" 47'-6" 47'-4" 48'-0"	#8 12'' #4 12" 16'-1" 16'-11" 17'-6" 18'-5" #8 6'' 74'' 114'' 119'' 123'' 128'	'' #5 6'' #5 6''

* EXAMPLE OF USE OF THIS TABLE:
PROPOSED STRUCTURE — TRIPLE BARREL, 12 FT. SPAN/10 FT. HEIGHT, CBC WITH 10 FT. DEPTH OF COVER.
USE THE FOLLOWING BUILD INFORMATION FROM THE TABLE ABOVE:

DIM	10- D	-15 F ESIGN	T BUR	"B"	"а	a"	"е	e"	"aa" & "	ee"	"b	b"	" c	c"	" d	lď"	"bb", "cc" & "dd"	" 1	f"	" g	ıg"	"ff" & "gg"		,,	hh"		" j	j"	"k	ĸ"
SPAN "S" INSIDE HEIGHT "H" INSIDE	TOP SLAB "TT"	BOTTOM SLAB "TB"	WALLS OUTER "WO"	WALLS INTERIOR "WI"	SIZE	SPACING	SIZE	SPACING	LENGTH	NUMBER OF BARS	SIZE	SPACING	SIZE	SPACING	SIZE	SPACING	LENGTH FOR 10-15 FT. FILL	SIZE	SPACING	SIZE	SPACING	LENGTH FOR 10-15 FT. FILL	SIZE	SPACING	"CH" LENGTH	"CV" LENGTH FOR 10-15 FT. FILL	SIZE	STAGGERED SPACING	SIZE	STAGGERED SPACING
12' 10'	14.0"	13.5"	11.0"	10.5"	#9	12"	#8	12"	13'-5"	2	#9	12"	#6	6"	#6	6"	39'-3"	#8	12"	#4	12"	11'-10"	#8	6"	67"	88"	#5	6"	#4	6"

FOR EXTENSIONS OF EXISTING CBC'S OF S=5', S=7', AND S=9' SIZE SPANS NOT INCLUDED IN THIS TABLE, USE DIMENSIONS FOR NEXT GREATER SPAN TO BUILD. FOR EXAMPLE: FOR S=5' USE DESIGN DIMENSIONS FROM THE TABLE FOR S=6'. ALSO REDUCE THE S=6' TABLE LENGTH OF BARS "bb", "cc" AND "dd" BY ONE FOOT TO ACCOMMODATE THE SHORTER SPAN. SEE DETAILS ON SHEET 511-66-4/6. ANY OTHER SIZES OF BOX EXTENSIONS NOT COVERED BY THIS MODIFICATION SHALL BE DONE THROUGH SPECIAL DESIGNS INCLUDED IN THE PROJECT PLANS.

** TOTAL LENGTH OF "gg" BARS IS TABLE LENGTH PLUS TWO STANDARD 90° HOOKS AND OPTIONAL 40 BAR Ø LAP IF NECESSARY.

NO.	DATE	REV. I	BY	DE	SCRIF	PTION	
		REVISION	IS (OR	CHANGE N	OTICE	S)	
DE		MENT	OF	MEXIC TRAN DRA	SP		ΓΙΟΝ
-,	CONC	RETE	вох	CULVE	RT	TRIPLE	E

CONCRETE BOX CULVERT TRIPLE
OPENING - DESIGN FILLS B, C, D, E
DIMENSIONS AND REBAR SCHEDULE

APPROVED
DESIGN ENGINEER

APR 9.07

DESIGNED BY TLB DRAWN BY SGL CHECKED BY HDR

511-65-2/3 2 OF 3

P. 07

OATE

HDR

SHEET NUMBER:

S-610

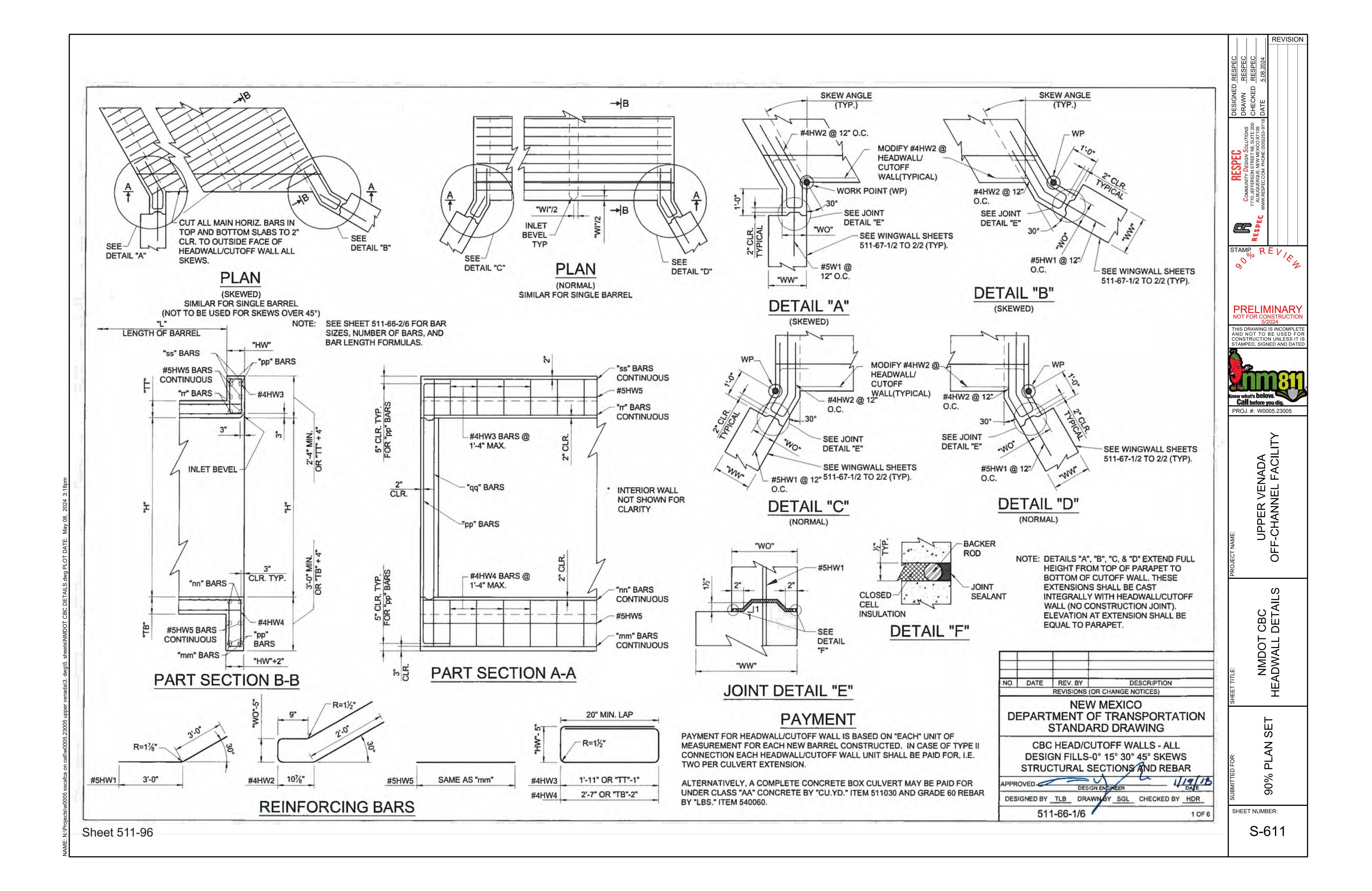
REVISION

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

PROJ. #: W0005.23005

UPPER VENADA OFF-CHANNEL FACILIT

NMDOT CBC TRIPLE OPENING REBAR SCHEDULE



BOX CUL NOMINA DIMENSI	AL			G BAR S	CHEDUL	L DIMENS E (BAR SI REQUIRED)	ZE AND N		HEADWALL REINFORCII	NG BAR SC		(BAR SI	ZE AND I				AND CUT NG BAR S OF	SCHEDULI		IZE AND				AND CUTO NG BAR SC OF		(BAR S	SIZE AND	
				0	DEGREE	SKEW				15 D	EGREE S	KEW					30	DEGREE	SKEW					45 D	EGREE S	KEW		
			"mm"	"nn"	"pp"	"qq"	"rr"	"ss"	"mm"	"nn"	"pp"	"qq"	"rr"	"s	ss"	"mm"	"nn"	"pp"	"qq"	"rr"	"s	s"	"mm"	"nn"	"pp"	"qq"	"rr"	"ss"
	<u>-</u>	AD.	PO	PO	PO P	PO	PO P	AD AD	, OF	FO.	PO	PP	70		AD /	J.C	OF.	P.	9F	PO		AD ",	PO	POF	70	FO.	PO-	F0
, o		出美							ž z	2			2	-1.	LU S	ER (- III S			2	2		2
N H	금	돈.	SBE	E MBER RS	H		SER	E SE	SEE L	SER	SE	S BE	S E S		S I'H H I' H	S BE	B . B	, E	S H	8 圏	s l	프 씨는 "그	S BE	S BE	SBE	B .	NBER C	ر <u>الا</u>
SPAN	HEIGHI	WD WD	SIZE NUMBER BARS	SIZE	SIZE	BARS SIZE NUMBER RARS	SIZE NUMBER BARS	SIZE NUMBER BARS WIDTH HI	WALL "H SIZE NUMBER BARS	SIZE NUMBER BARS	SIZE NUMBER BARS	SIZE NUMBER BARS	IZE IUN	SIZE	NID WAL	SIZE IUN	SIZE NUMBER RARS	SIZE	Z Z Z	SIZE	AR Size	NUMBER BARS WIDTH H	SIZE NUMBER BARS	SIZE NUMBER BARS	IUN SAR	IN IN	A Z Z	BARS SIZE NUMBER RARS
1,21,127	2'	12"	77 2 2	#7 2	#7 2	#4 2	#7 2	#7 2 1	> 0) Z III	#7 2	#7 2	#4 2	#7 2	#7	2 12"	#7 2	#7 2	#7 2	#4 2	#7 4	ш ()	2 12"	#7 2	#7 2	#7 2	#4 2	H7 2	#7 2
4'	3'	12"	47 2	#7 2	#7 2	#4 2	#7 2	#7 2 1	2" #7 2	#7 2	#7 2	#4 2	#7 2	#7	2 12"	#7 2	#7 2	#7 2	#4 2	#7 4	2 #7	2 12"	#7 2	#7 2	#7 2	#4 2	#7 2	#7 2
4'	4'	12"	47 2	#7 2	#7 2	#4 2	#7 2		2" #7 2	11 '	#7 2 #7 2	#4 2	#7 2	#7	2 12"	#7 2	#7 2	#7 2	#4 2	#7	- π' > #7	2 12"	#7 2	#7 2	#7 2	#4 2	#7 2	#7 2
6'	2'	12"	¥7 2	#7 2	#7 2	#4 2	#7 2		2" #7 2	II .	#7 2	#4 2	#7 2	#7	2 12"	#8 2	#8 2	#7 2	#4 2	#8	2 #7	2 12"	#10 2	#10 2	#7 2	#4 2	#9 2	#8 2
6'	3'	12"	7 2	#7 2	#7 2	#4 2	#7 2		2" #7 2	"	#7 2	#4 2	#7 2	#7	2 12"	#8 2	#8 2	#7 2	#4 2	#8 3	2 #7	2 12"	#10 2	#10 2	#7 2	#4 2	#9 2	#8 2
6'	4'	12"	¥7 2	#7 2	#7 2	#4 2	#7 2		2" #7 2	#7 2	#7 2	#4 2	#7 2	#7	2 12"	#8 2	#8 2	#7 2	#4 2	#8 2	2 #7	2 12"	#10 2	#10 2	#7 2	#4 2	#9 2	#8 2
6'	5'	12"	7 2	#7 2	#7 2	#4 2	#7 2		2" #7 2	11	#7 2	#4 2	#7 2	#7	2 12"	#8 2	#8 2	#7 2	#4 2	#8 2	2 #7			#10 2	#7 2	#4 2	#9 2	#8 2
6'	6'	12" #	7 2	#7 2	#7 2	#4 2	#7 2		2" #7 2	#7 2	#7 2	#4 2	#7 2	#7	2 12"	#8 2	#8 2	#7 2	#4 2	#8 2	2 #7	2 12"	#10 2	#10 2	#7 2	#4 2	#9 2	#8 2
6'	7'	12" #	7 2	#7 2	#7 2	#4 2	#7 2	#7 2 1:	2" #7 2	#7 2	#7 2	#4 2	#7 2	#7	2 12"	#8 2	#8 2	#7 2	#4 2	#8 2	2 #7	2 12"	#10 2	#10 2	#7 2	#4 2	#9 2	#8 2
8'	4'	12"	¥7 2	#7 2	#7 2	#4 2	#7 2	#7 2 12	2" #9 2	#9 2	#7 2	#4 2	#8 2	#8	2 12"	#10 2	#10 2	#7 2	#4 2	#10 2	2 #9	2 14"	#11 3	#11 3	#9 2	#5 2	#11 3	#11 3
8'	5'	12" #	7 2	#7 2	#7 2	#4 2	#7 2	#7 2 12	2" #9 2	#9 2	#7 2	#4 2	#8 2	#8	2 12"	#10 2	#10 2	#7 2	#4 2	#10 2	2 #9	2 14"	#11 3	#11 3	#9 2	#5 2	#11 3	#11 3
8'	6'	12" #	7 2	#7 2	#7 2	#4 2	#7 2	#7 2 1	2" #9 2	#9 2	#7 2	#4 2	111	- 11	2 12"	11	11		#4 2	#10 2	2 #9	2 14"	#11 3	#11 3	#9 2	#5 2	#11 3	#11 3
8'	7'	12"	7 2	#7 2	#7 2	#4 2	#7 2	#7 2 12	2" #9 2	#9 2	#7 2	#4 2			2 12"				#4 2	#10 2	2 #9	2 14"	#11 3	#11 3	#9 2	#5 2	#11 3	#11 3
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	3'	12"	7 2	#7 2	#7 2	#4 2	#7 2	#7 2 1:		17		15	1.	#9	2 14"	#11 3	#11 3	#9 2		#11 3	3 #11	3 24"	#11 3	#11 3	#11 2	#5 2	#11 3	#11 3
10'	4'	12" #	7 2	#7 2	#7 2	#4 2	#7 2	#7 2 12	11	#10 2	11	.,	111	#9	2 14"	#11 3	#11 3	#9 2	#6 2	#11	3 #11	3 24"	#11 3	#11 3	#11 2	#6 2	#11 3	#11 3
		12" #		#7 2	#7 2	#4 2		#7 2 12		1.77														#11 3	#11 2	#6 2	#11 3	#11 3
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10'	/'	12"	<i>† † † † † † † † † †</i>	#/ 2	#/ 2	#4 2	#/ 2	#/ 2 1:	2" #10 2	#10 2	11	**	#10 2	41		#11 3	4.00	#9 2		#11 \	7 // 11	3 24"	#11 3	#11 3	#11 2	#6 2	#11 3	#11 3
10'	0,	12 7	7 2	#/ 2	#/ 2	#4 2	#/ 2	#7 2 12 #7 2 12	The second	11	11	11	11			O. I	1.0	11	10	#11 \	2 #11 2 #11	3 24"	#11 3	#11 3	#11 2	#6 2	#11 3	#11 3
10'	10'	12"	47 2	#7 2	#7 2	#4 2	#7 2	#7 2 12	2 #10 2	#10 2	#0 2	#5 2	#10 2	#9	2 14	#11 3	#11 3	#9 2		#11	3 #11	3 24	#11 3	#11 3	#11 2	#6 2	#11 3	#11 3
10'	11'	12"	47 2	#7 2	#7 2	#4 2	#7 2	#7 2 1	2" #10 2	#10 2	#8 2	#5 2	#10 2	#9	2 14"	#11 3	#11 3		- 11	#11	3 #11	3 24"	#11 3	#11 3	#11 2	#6 2	#11 3	#11 3
	12'	12"	47 2	#7 2	#7 2	#4 2	#7 2	11	2" #10 2	11	17	11	111	11		11	11	II .	11	- 11	3 #11	3 24"	#11 3	#11 3	#11 2	#6 2	#11 3	#11 3
12'	6'	12"	¥7 2	#7 2	#7 2	#4 2	#7 2	#7 2 1		#10 3			1	-						#11	3 #9	3 48"	#11 12	#11 12	#8 11	#5 1	1 #11 15	#11 12
12'	7'	12" #	¥7 2	#7 2	#7 2	#4 2	#7 2	#7 2 1			11	**								#11	3 #9	3 48"	#11 12	#11 12	#8 11	#5 1	1 #11 12	#11 12
	8'	12" #	7 2	- 11	#7 2	#4 2	#7 2	#7 2 1	4" #11 3	#10 3	#11 2	#6 2	#11 3	#10	3 24"	#11 3	#11 3	#11 2	#6 2	#11	3 #9	3 48"	#11 12	#11 12	#8 11	#5 1	1 #11 12	2 #11 12
12'	9'	12"	7 2	#7 2	#7 2	#4 2	#7 2	#7 2 14	4" #11 3	#10 3	#11 2	#6 2	#11 3	#10	3 24"	#11 3	#11 3	#11 2	#6 2	#11	3 #9	3 48"	#11 12	#11 12	#8 11	#5 1	1 #11 12	#11 12
12'	10'	12"	7 2	#7 2	#7 2	#4 2	#7 2	#7 2 1	4" #11 3	#10 3	#11 2	#6 2	#11 3	#10	3 24"	#11 3	#11 3	#11 2	#6 2	#11	3 #9	3 48"	#11 12	#11 12	#8 11	#5 1	1 #11 12	2 #11 12
12'	12'	12"	¥7 2	#7 2	#7 2	#4 2	#7 2	#7 2 1	4" #11 3	#10 3	#11 2	#6 2	#11 3	#10	3 24"		#11 3	#11 2	#6 2	#11	3 #9	3 48"	#11 12	#11 12	#8 11	#5 1	1 #11 15	411 12
14'	8'	12"	¥7 2	#7 2	#7 2	#4 2	#7 2	#7 2 24	4" #11 4	#11 4	#10 3	#8 3	#11 4	#10	4 36"	#11 9	#11 9	#9 8	#6 8	#11 9	#11	9 48"	#11 12	#11 12	#8 11	#5 1	1 #11 12	411 12
14'	9'	12"	7 2	#7 2	#7 2	#4 2	#7 2	#7 2 24	4" #11 4	#11 4	#10 3	#8 3	#11 4	#10	4 36"	#11 9	#11 9	#9 8	#6 8	#11 9	#11	9 48"	#11 12	#11 12	#8 11	#5 1	1 #11 12	4 #11 12
14'	10'	12"	7 2	#7 2	#7 2	#4 2	#7 2	#7 2 24	4" #11 4	#11 4	#10 3	#8 3	#11 4	#10	4 36"	#11 9	#11 9	#9 8	#6 8	#11 9	#11	9 48"	#11 12	#11 12	#8 11	#5 1	1 #11 12	411 12
14'	11'	12"	¥7 2	#7 2	#7 2	#4 2	#7 2		4" #11 4	#11 4	#10 3	#8 3	#11 4	#10	4 36"	#11 9	#11 9	#9 8	#6 8	#11 9	#11	9 48"	#11 12		#8 11	#5 1	1 #11 12	#11 12
14'	12'				+			#7 2 24	4" #11 4	#11 4	#10 3	#8 3	#11 4	#10	4 36"	#11 9	#11 9	#9 8	#6 8		#11	9 48"	#11 12	#11 12	#8 11			2 #11 12
14'	13'	12"	7 2	#7 2	#7 2	#4 2	#7 2		4" #11 4	#11 4	#10 3	#8 3	#11 4	#10	4 36"	#11 9	#11 9	#9 8	#6 8	#11 9		9 48"	#11 12	#11 12	#8 11			2 #11 12
14'	14'	12" #	7 2	#7 2	#7 2	#4 2	#7 2	#7 2 24	4" #11 4	#11 4	#10 3	#8 3	#11 4	#10	4 36"	#11 9	#11 9	#9 8	#6 8	#11 9	#11	9 48"	#11 12	#11 12	#8 11	#5 1	1 #11 12	2 #11 12

* EXAMPLE OF USE OF THIS TABLE: PROPOSED STRUCTURE - DOUBLE BARREL, 12 FT. SPAN/10 FT. HEIGHT, USE THE FOLLOWING BUILD INFORMATION FROM THE TABLE ABOVE:

NOM	ULVERT IINAL ISIONS	1 22.7				AR S	CHE	WAL DULE S RE	(BA	R SIZ				
			"~	nm"	",	30 (nn"		REE S		99"	"	rr"	"	ss"
		0	- 10							99				1.
₹,	Ţ.	HEAI "HW"		R OF		R OF		R OF		R OF		R 0		R OF
SPAN	HEIGHT	WIDTH, WALL	SIZE	NUMBER BARS	SIZE	NUMBE BARS	SIZE	NUMBE BARS	SIZE	NUMBE BARS	SIZE	NUMBER BARS	SIZE	NUMBE
12'	10'	24"	#11	3	#11	3	#11	2	#6	2	#11	.3	#9	7

LENGTH OF BARS: THE LENGTH OF "mm", "nn", "rr", "ss", & #5HW5 SHALL BE DETERMINED BY:

LENGTH = [[[("WO"*2)+("S"*N)+["WI"*(N-1)]]/COS(SKEW ANGLE)] -4"(ROUND DOWN TO NEAREST ½")

THESE BARS SHALL BE FURNISHED IN FULL LENGTHS CALCULATED OR BE MECHANICALLY COUPLED BY DEVICES LISTED ON THE NMDOT APPROVED PRODUCTS LIST.

N = NUMBER OF BARRELS (1, 2, 3, OR 4)

"qq" BAR LENGTH = "H" + 59"

"pp" BAR = ["H"+(5'-4" MIN. OR ("TT"+"TB"+8") IF LARGER)]-10"+ $2*STANDARD\ HOOK\ LENGTH$

FOR EXTENSIONS OF EXISTING CBC'S OF S=5', S=7', AND S=9' SIZE SPANS NOT INCLUDED IN THIS TABLE, USE DIMENSIONS, BAR SIZES, AND NUMBER OF BARS FOR NEXT GREATER SPAN TO BUILD. FOR EXAMPLE, FOR S=5' USE DIMENSIONS AND BAR DETAILS FROM THE TABLE FOR S=6'. USE S=5' IN FORMULAS TO DETERMINE LENGTH OF BARS "mm", "nn", "ss", "rr", AND #5HW5. ANY OTHER SIZE OF BOX EXTENSIONS NOT COVERED BY THIS MODIFICATION SHALL BE DONE THROUGH SPECIAL DESIGNS INCLUDED IN THE PROJECT PLANS.

THIS TABLE IS FOR USE WITH ONE TO FOUR BARRELS. FOR FIVE OR MORE BARRELS USE COMBINATIONS OF ONE TO FOUR BARRELS REPEATING THIS DESIGN.

NO.	DATE	REV. BY	DESCRIPTION
	11.5	REVISIONS (OR CHANGE NOTICES)
			F TRANSPORTATION RD DRAWING
0	ONCRE	TE BOX	CULVERT HEADWALL

DESIGNED BY TLB DRAWN BY SGL CHECKED BY HDR

511-66-2/6

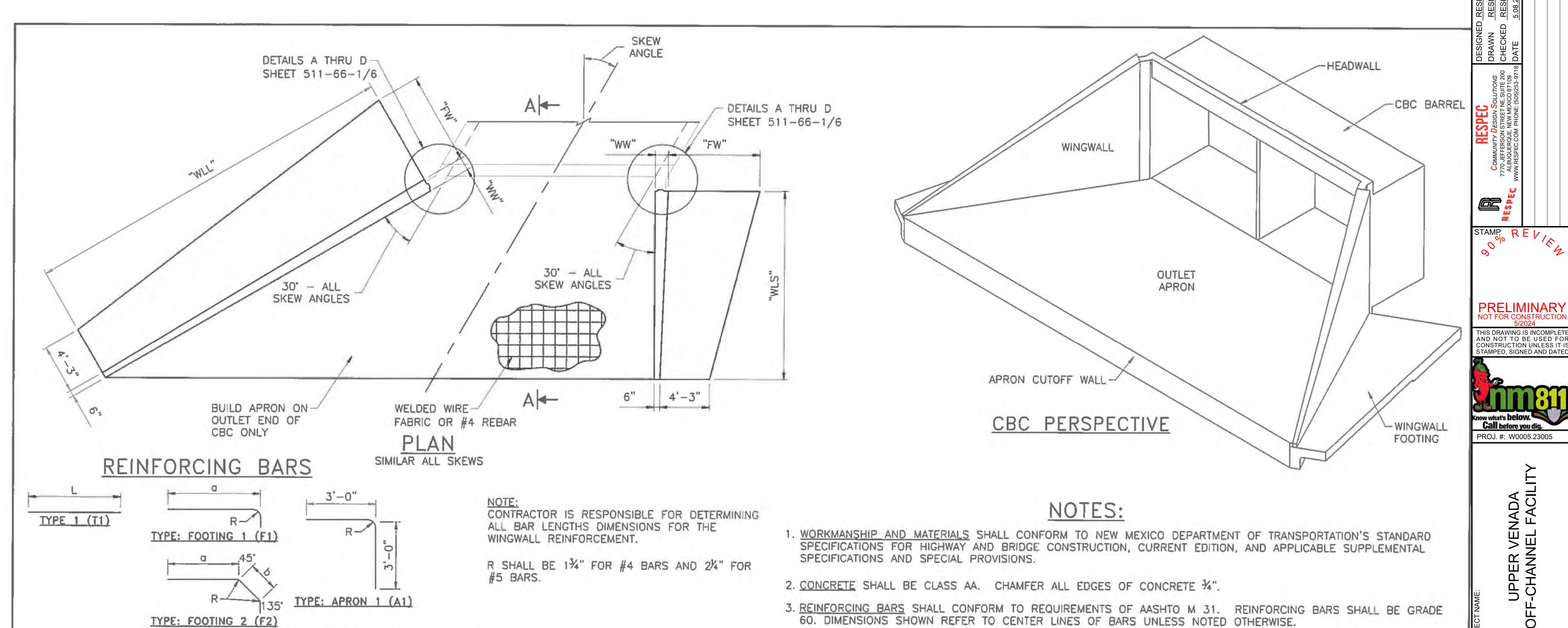
Sheet 511-97

NOT FOR CONSTRUCTION THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED PROJ. #: W0005.23005 UPPER VENADA OFF-CHANNEL FACILIT NMDOT CBC HEADWALL REBAR SCHEDULE

SHEET NUMBER:

S-612

REVISION



WINGWALL DIMENSIONS

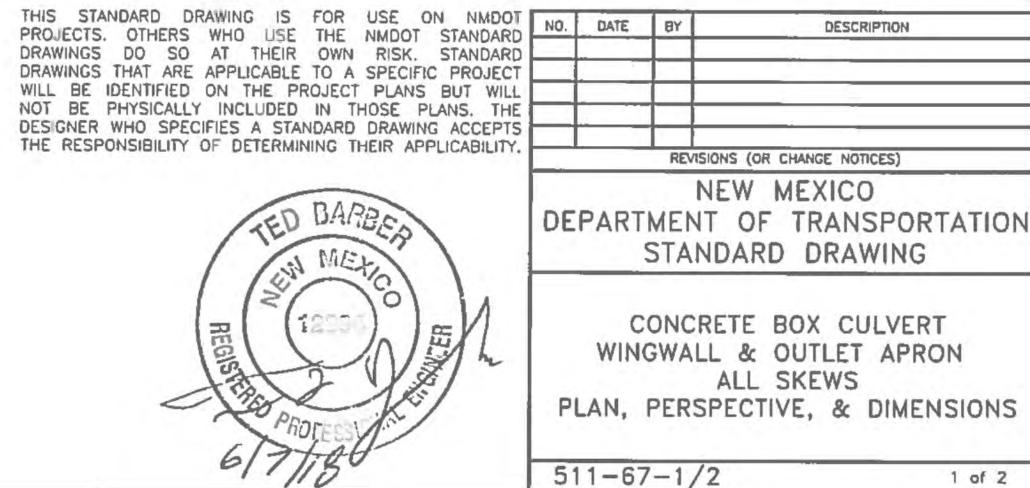
TYPE: APRON 1 (A1)

WIN	IGS A AND	B	0° S	KEW	15°	SKEW	30° :	SKEW	45"	SKEW
"H"	"WW"	"FW"	"WLL"	"WLS"	"WLL"	"WLS"	"WLL"	"WLS"	"WLL"	"WLS"
2'-0"	0'-9½"	6'-8½"	8'-5"	8'-5"	10'-3"	7'-6"	14'-6"	7'-3"	28'-0"	7'-6"
3'-0"	0'-101/4"	7'-2½"	10'-1"	10'-1"	12'-5"	9'-1"	17'-6"	8'-9"	33'-10"	9'-1"
4'-0"	0'-11½"	7'-8½"	11'-10"	11'-10"	14'-6"	10'-8"	20'-6"	10'-3"	39'-8"	10'-8"
5'-0"	1'-0"	8'-2½"	13'-7"	13'-7"	16'-8"	12'-2"	23-'6"	11'-9"	45'-5"	12'-2"
6'-0"	1'-0¾"	8'-9"	15'-4"	15'-4"	18'-9"	13'-9"	26'-6"	13'-3"	51'-3"	13'-9"
7'-0"	1'-1½"	9'-3"	17'-1"	17'-1"	20'-11"	15'-3"	29'-6"	14'-9"	57'-0"	15'-3"
8'-0"	1'-21/4"	9'-9"	18'-9"	18'-9"	23'-0"	16'-10"	32'-6"	16'-3"	62'-10"	16'-10"
9'-0"	1'-3¼"	10'-3"	20'-6"	20'-6"	25'-1"	18'-5"	35'-6"	17'-9"	68'-7"	18'-5"
10'-0"	1'-4"	10'-9"	22'-3"	22'-3"	27'-3"	19'-11"	38'-6"	19'-3"	74'-5"	19'-11"
11'-0"	1'-43/4"	11'-3"	24'-0"	24'-0"	29'-4"	21'-6"	41'-6"	20'-9"	80'-2"	21'-6"
12'-0"	1'-5½"	11'-9"	25'-9"	25'-9"	31'-6"	23'-1"	44'-6"	22'-3"	86'-0"	23'-1"
13'-0"	1'-61/4"	12'-3"	27'-5"	27'-5"	33'-7"	24'-7"	47'-6"	23'-9"	91'-9"	24'-7"
14'-0"	1'-7"	12'-9"	29'-2"	29'-2"	35'-9"	26'-2"	50'-6"	25'-3"	97'-7"	26'-2"

NOTE: TABLE DIMENSIONS SHOWN ARE FOR SLOPES OF 1.5 TO 1. FOR OTHER SLOPES MULTIPLY TABLE VALUES OF "WLS" AND "WLS" BY (SLOPE/1.5). DESIGNED BY: TLB DRAWN BY: SLG/BEE CHECKED BY: HDR

TYPE: FOOTING 2 (F2)

- 2. CONCRETE SHALL BE CLASS AA. CHAMFER ALL EDGES OF CONCRETE 34".
- 3. REINFORCING BARS SHALL CONFORM TO REQUIREMENTS OF AASHTO M 31. REINFORCING BARS SHALL BE GRADE 60. DIMENSIONS SHOWN REFER TO CENTER LINES OF BARS UNLESS NOTED OTHERWISE.
- 4. MINIMUM SPLICE LENGTH SHALL BE 2'-0" ON ALL #4 BARS, AND 2'-6" ON ALL #5 BARS. LONGITUDINAL SPLICES SHOULD BE STAGGERED BY A MINIMUM OF TWO TIMES THE SPLICES LENGTH IN ADJACENT BARS. NO SPLICES SHALL BE ALLOWED IN VERTICAL BARS EXCEPT AS SHOWN ON THE DRAWINGS. SPLICES SHALL NOT BE ALLOWED IN TRANSVERSE DIRECTION.



Sheet 511-101

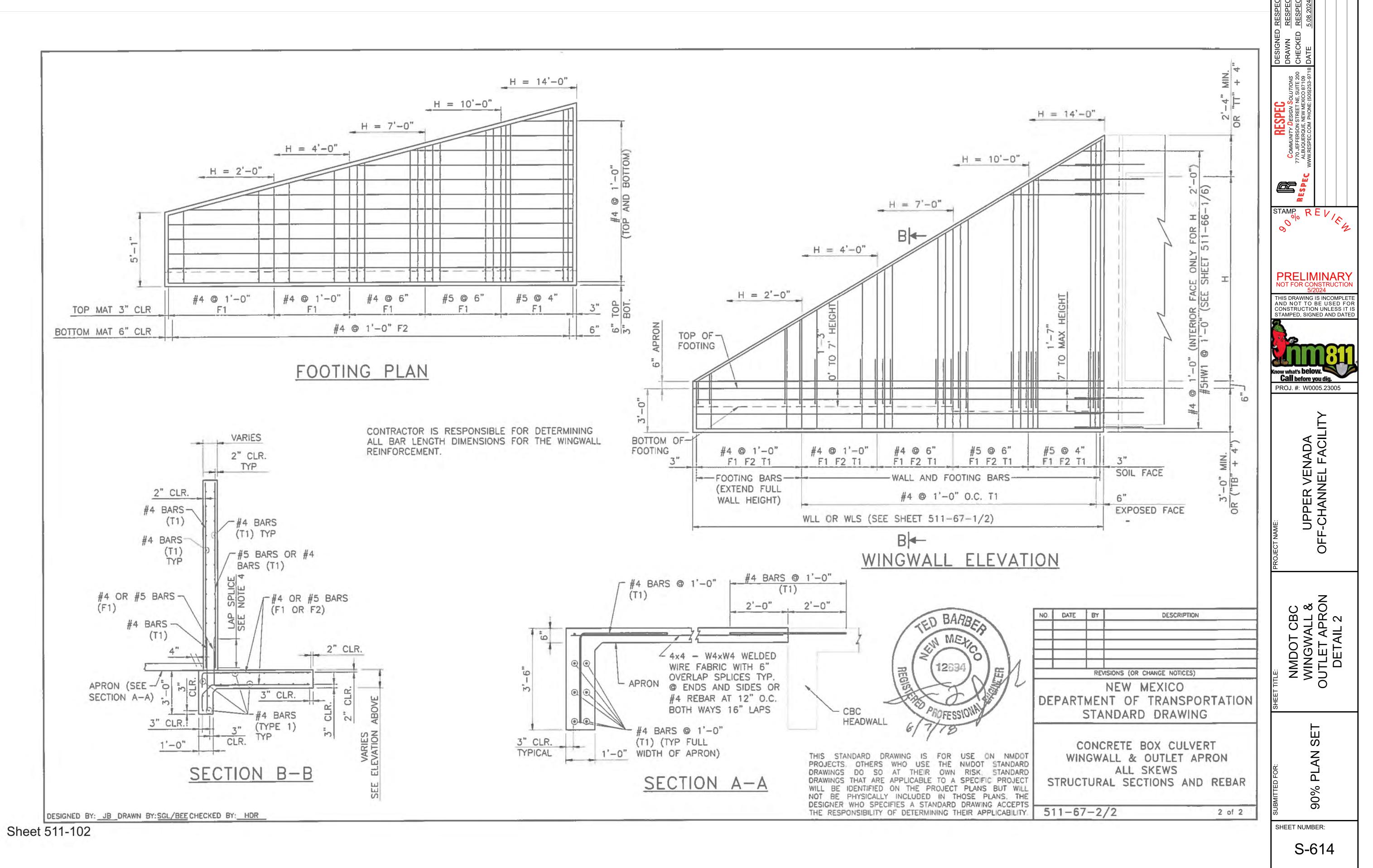
S-613

SHEET NUMBER:

NMDOT CBC WINGWALL & OUTLET APRON DETAIL 1

REVISION

1 of 2



REVISION

Appendix B

Environmental Database Report



Upper Venada

Progress Boulevard Rio Rancho, NM 87144

Inquiry Number: 7925841.2s

March 13, 2025

The EDR Radius Map™ Report



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

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Government Records Searched/Data Currency Tracking	GR-1
GEOCHECK ADDENDUM	•

GeoCheck - Not Requested

Thank you for your business.Please contact EDR at 1-800-352-0050 with any questions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

PROGRESS BOULEVARD RIO RANCHO, NM 87144

COORDINATES

Latitude (North): 35.3225230 - 35° 19' 21.08" Longitude (West): 106.6210750 - 106° 37' 15.87"

Universal Tranverse Mercator: Zone 13 UTM X (Meters): 352647.0 UTM Y (Meters): 3909817.5

Elevation: 5356 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 14565941 BERNALILLO, NM

Version Date: 2020

West Map: 14565981 LOMA MACHETE, NM

Version Date: 2020

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20200608 Source: USDA

MAPPED SITES SUMMARY

Target Property Address: PROGRESS BOULEVARD RIO RANCHO, NM 87144

Click on Map ID to see full detail.

MAP				RELATIVE	DIST (ft. & mi.)
ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	ELEVATION	DIRECTION
A1	LINCOLN AVENUE PHASE	LINCOLN AVE. NE & PA	FINDS	Lower	1785, 0.338, ESE
A2	PW 2062 LINCOLN AVEN	LINCOLN AVE. NE & PA	ECHO	Lower	1785, 0.338, ESE
A3	PW 2062 LINCOLN AVEN	LINCOLN AVE. NE & PA	FINDS	Lower	1785, 0.338, ESE
4	SANDOVAL COUNTY LAND	5 MI W OF BERNALILLO	FINDS, ECHO, PFAS ECHO	Higher	2160, 0.409, SSW
B5	PRITCHARD RESIDENCE	3524 DELEDDA RD NE	ECHO	Lower	2551, 0.483, SE
B6	PRITCHARD RESIDENCE	3524 DELEDDA RD NE	FINDS	Lower	2551, 0.483, SE

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites								
NPL								
Proposed NPL	. Proposed National Priority List Sites							
NPL LIENS	- Federal Superfund Liens							
Lists of Federal Delisted NF	PL sites							
Delisted NPL	National Priority List Deletions							
Lists of Federal sites subject	ct to CERCLA removals and CERCLA orders							
FEDERAL FACILITY	Federal Facility Site Information listing							
SEMS	Superfund Enterprise Management System							
Lists of Federal CERCLA si	tes with NFRAP							
SEMS-ARCHIVE	Superfund Enterprise Management System Archive							
Lists of Federal RCRA facili	ities undergoing Corrective Action							
CORRACTS	. Corrective Action Report							
Lists of Federal RCRA TSD	facilities							
RCRA-TSDF	RCRA - Treatment, Storage and Disposal							
Lists of Federal RCRA gene	erators							
RCRA-LQG	RCRA - Large Quantity Generators							
	RCRA - Small Quantity Generators							
RCRA-VSQG	RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)							
Federal institutional control	Is / engineering controls registries							
LUCIS	Land Use Control Information System							

US ENG CONTROLS...... Engineering Controls Sites List US INST CONTROLS..... Institutional Controls Sites List

Federal ERNS list

ERNS..... Emergency Response Notification System

Lists of state- and tribal hazardous waste facilities

SCS...... State Cleanup Sites Listing

SHWS...... This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal

NPL list.

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF..... Solid Waste Facilities

Lists of state and tribal leaking storage tanks

LUST.....Leaking Underground Storage Tank Prioritization Database

LAST.....Leaking Aboveground Storage Tank Sites

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

LTANKS..... Leaking Storage Tank Listing

Lists of state and tribal registered storage tanks

FEMA UST...... Underground Storage Tank Listing
UST...... Listing of Underground Storage Tanks

AST...... Aboveground Storage Tanks List

Transcription of the state of t

State and tribal institutional control / engineering control registries

INST CONTROL..... Sites with Institutional Controls

Lists of state and tribal voluntary cleanup sites

INDIAN VCP...... Voluntary Cleanup Priority Listing VCP...... Voluntary Remediation Program Sites

Lists of state and tribal brownfield sites

BROWNFIELDS..... Brownfields Site Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY...... Recycling Facility Listing

INDIAN ODI...... Report on the Status of Open Dumps on Indian Lands

ODI...... Open Dump Inventory

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register

CDL_____ Clandestine Drug Laboratory Listing
US CDL_____ National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

SPILLS......Spill Data

Other Ascertainable Records

RCRA NonGen / NLR...... RCRA - Non Generators / No Longer Regulated

FUDS....... Formerly Used Defense Sites DOD...... Department of Defense Sites

SCRD DRYCLEANERS...... State Coalition for Remediation of Drycleaners Listing

US FIN ASSUR_____ Financial Assurance Information

EPA WATCH LIST..... EPA WATCH LIST

TSCA...... Toxic Substances Control Act

TRIS...... Toxic Chemical Release Inventory System

RAATS...... RCRA Administrative Action Tracking System

ICIS...... Integrated Compliance Information System

FTTS......FIFŘA/ TSCA Tracking System - FIFŘA (Federal Insecticide, Fungicide, & Rodenticide

Act)/TSCA (Toxic Substances Control Act)

COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List

PCB TRANSFORMER PCB Transformer Registration Database

RADINFO...... Radiation Information Database

HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing

DOT OPS..... Incident and Accident Data

CONSENT...... Superfund (CERCLA) Consent Decrees

INDIAN RESERV..... Indian Reservations

FUSRAP..... Formerly Utilized Sites Remedial Action Program

UMTRA..... Uranium Mill Tailings Sites

LEAD SMELTERS..... Lead Smelter Sites

US AIRS..... Aerometric Information Retrieval System Facility Subsystem

US MINES...... Mines Master Index File

ABANDONED MINES..... Abandoned Mines

MINES MRDS...... Mineral Resources Data System UXO....... Unexploded Ordnance Sites

DOCKET HWC...... Hazardous Waste Compliance Docket Listing

FUELS PROGRAM..... EPA Fuels Program Registered Listing

PFAS NPL.....Superfund Sites with PFAS Detections Information

PFAS FEDERAL SITES Federal Sites PFAS Information PFAS TRIS List of PFAS Added to the TRI

PFAS TSCA..... PFAS Manufacture and Imports Information

PFAS RCRA MANIFEST..... PFAS Transfers Identified In the RCRA Database Listing

PFAS ECHO FIRE TRAIN.... Facilities in Industries that May Be Handling PFAS Listing PFAS PT 139 AIRPORT..... All Certified Part 139 Airports PFAS Information Listing

UST FINDER..... UST Finder Database

AIRS..... Airs Information

ASBESTOS..... List of Asbestos Demolition and Renovations Jobs

DRYCLEANERS______ Drycleaner Facility Listing
Financial Assurance Financial Assurance Information
MINES______ Coal Mine Permits Database
NPDES______ List of Discharge Permits

UIC...... Underground Injection Control Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP...... EDR Proprietary Manufactured Gas Plants
EDR Hist Auto..... EDR Exclusive Historical Auto Stations
EDR Hist Cleaner.... EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 11/11/2024 has revealed that there are 4 FINDS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SANDOVAL COUNTY LAND Registry ID:: 110028001846	5 MI W OF BERNALILLO	SSW 1/4 - 1/2 (0.409 mi.)	4	9
Lower Elevation	Address	Direction / Distance	Map ID	Page
LINCOLN AVENUE PHASE Registry ID:: 110070705401	LINCOLN AVE. NE & PA	ESE 1/4 - 1/2 (0.338 mi.)	A1	8
PW 2062 LINCOLN AVEN Registry ID:: 110070740446	LINCOLN AVE. NE & PA	ESE 1/4 - 1/2 (0.338 mi.)	А3	8
PRITCHARD RESIDENCE Registry ID:: 110070252229	3524 DELEDDA RD NE	SE 1/4 - 1/2 (0.483 mi.)	B6	11

ECHO: ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

A review of the ECHO list, as provided by EDR, and dated 12/21/2024 has revealed that there are 3 ECHO sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SANDOVAL COUNTY LAND Registry ID: 110028001846	5 MI W OF BERNALILLO	SSW 1/4 - 1/2 (0.409 mi.)	4	9
Lower Elevation	Address	Direction / Distance	Map ID	Page
PW 2062 LINCOLN AVEN Registry ID: 110070740446	LINCOLN AVE. NE & PA	ESE 1/4 - 1/2 (0.338 mi.)	A2	8
PRITCHARD RESIDENCE Registry ID: 110070252229	3524 DELEDDA RD NE	SE 1/4 - 1/2 (0.483 mi.)	B5	11

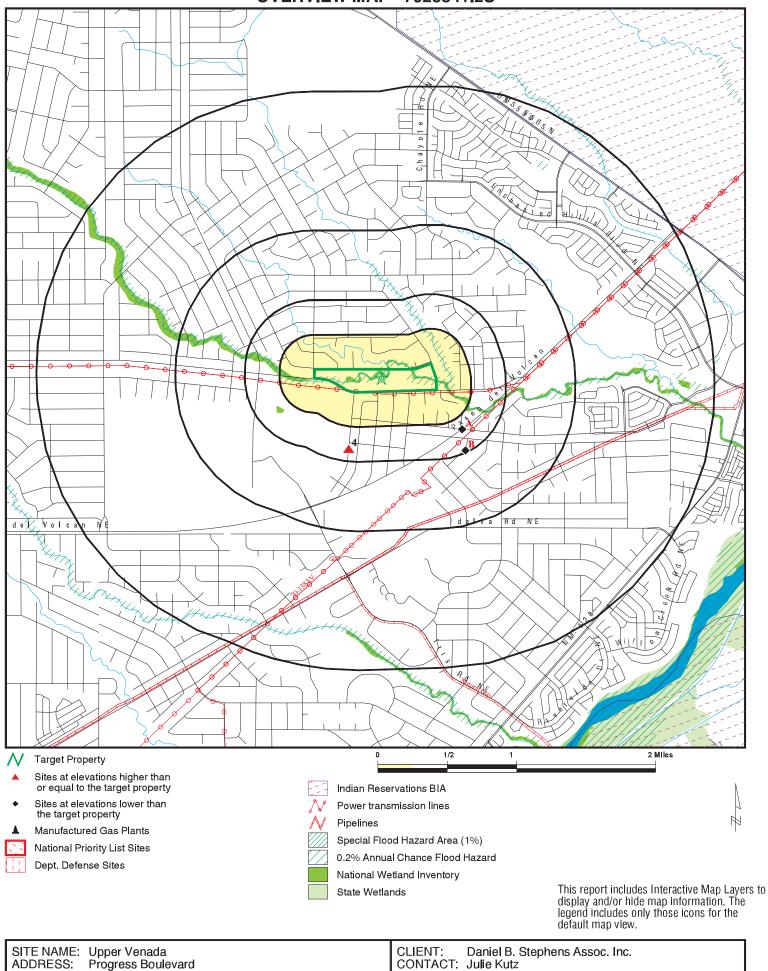
PFAS ECHO: Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

A review of the PFAS ECHO list, as provided by EDR, and dated 12/30/2024 has revealed that there is 1 PFAS ECHO site within approximately 0.75 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SANDOVAL COUNTY LAND	5 MI W OF BERNALILLO	SSW 1/4 - 1/2 (0.409 mi.)	4	9

There were no unmapped sites in this report.

OVERVIEW MAP - 7925841.2S



Rio Rancho NM 87144

35.322523 / 106.621075

LAT/LONG:

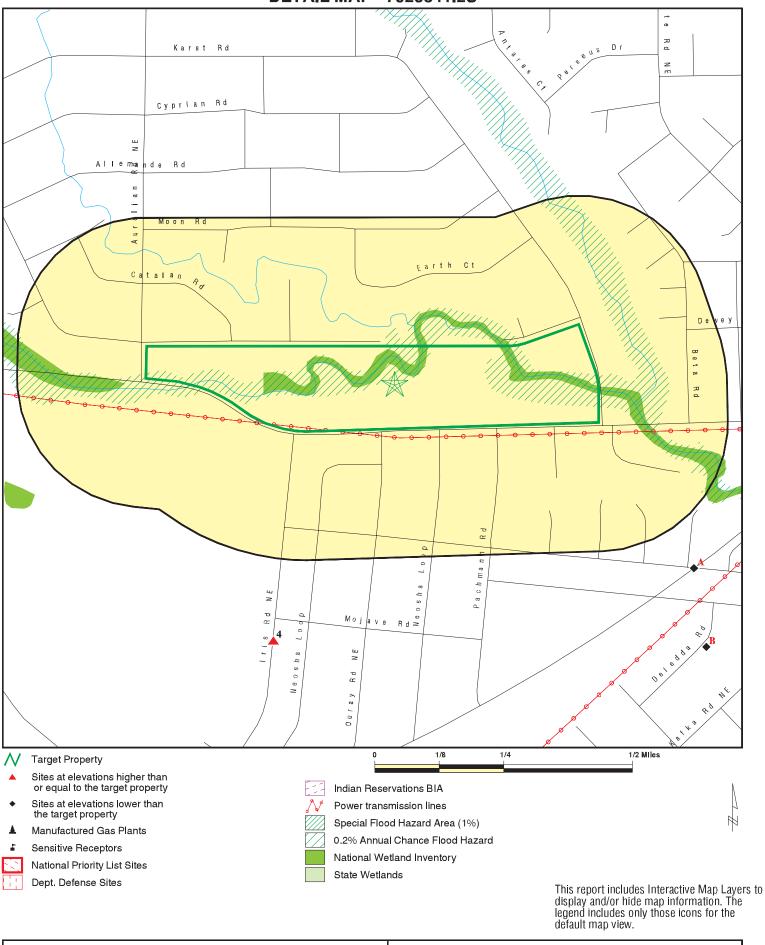
March 13, 2025 4:07 pm

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INQUIRY#: 7925841.2s

DATE:

DETAIL MAP - 7925841.2S



SITE NAME: Upper Venada
ADDRESS: Progress Boulevard
Rio Rancho NM 87144
LAT/LONG: 35.322523 / 106.621075

CLIENT: Daniel B. Stephens Assoc. Inc.
CONTACT: Julie Kutz
INQUIRY #: 7925841.2s
DATE: March 13, 2025 4:10 pm

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	Total Plotted
STANDARD ENVIRONMENT	AL RECORDS							
Lists of Federal NPL (Sup	perfund) sites	5						
NPL Proposed NPL NPL LIENS	1.500 1.500 1.500		0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
Lists of Federal Delisted	NPL sites							
Delisted NPL	1.500		0	0	0	0	0	0
Lists of Federal sites sub CERCLA removals and C		rs						
FEDERAL FACILITY SEMS	1.000 1.000		0 0	0 0	0 0	0 0	NR NR	0 0
Lists of Federal CERCLA	sites with N	FRAP						
SEMS-ARCHIVE	1.000		0	0	0	0	NR	0
Lists of Federal RCRA fa undergoing Corrective A								
CORRACTS	1.500		0	0	0	0	0	0
Lists of Federal RCRA TS	SD facilities							
RCRA-TSDF	1.000		0	0	0	0	NR	0
Lists of Federal RCRA ge	enerators							
RCRA-LQG RCRA-SQG RCRA-VSQG	0.750 0.750 0.750		0 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	0 0 0
Federal institutional contended in the second controls reg								
LUCIS US ENG CONTROLS US INST CONTROLS	1.000 1.000 1.000		0 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	0 0 0
Federal ERNS list								
ERNS	0.500		0	0	0	NR	NR	0
Lists of state- and tribal hazardous waste facilitie	es							
SCS SHWS	1.500 N/A		0 N/A	0 N/A	0 N/A	0 N/A	0 N/A	0 N/A
Lists of state and tribal la and solid waste disposal								
SWF/LF	1.000		0	0	0	0	NR	0
Lists of state and tribal le	eaking storag	e tanks						
LUST	1.000		0	0	0	0	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LAST INDIAN LUST LTANKS	1.000 1.000 1.000		0 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	0 0 0
Lists of state and tribal	registered sto	rage tanks						
FEMA UST UST AST INDIAN UST TANKS	0.750 0.750 0.750 0.750 0.750		0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	NR NR NR NR NR	0 0 0 0
State and tribal institution control / engineering co		es						
INST CONTROL	1.000		0	0	0	0	NR	0
Lists of state and tribal	voluntary clea	anup sites						
INDIAN VCP VCP	1.000 1.000		0 0	0 0	0 0	0 0	NR NR	0 0
Lists of state and tribal	brownfield sit	es						
BROWNFIELDS	1.000		0	0	0	0	NR	0
ADDITIONAL ENVIRONMENT	NTAL RECORD	<u>s</u>						
Local Brownfield lists								
US BROWNFIELDS	1.000		0	0	0	0	NR	0
Local Lists of Landfill / S Waste Disposal Sites	Solid							
SWRCY INDIAN ODI ODI DEBRIS REGION 9 IHS OPEN DUMPS	1.000 1.000 1.000 1.000 1.000		0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	NR NR NR NR NR	0 0 0 0
Local Lists of Hazardou Contaminated Sites	s waste/							
US HIST CDL CDL US CDL	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Local Land Records								
LIENS 2	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS SPILLS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Other Ascertainable Red	cords							
RCRA NonGen / NLR	0.750		0	0	0	0	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FUDS	1.500		0	0	0	0	0	0
DOD	1.500		Ö	Ö	Ö	Ö	Ö	Ö
SCRD DRYCLEANERS	1.000		0	0	0	0	NR	0
US FIN ASSUR	0.500		0	0	0	NR	NR	0
EPA WATCH LIST	0.500		0	0	0	NR	NR	0
2020 COR ACTION	0.750		0	0	0	0	NR	0
TSCA	0.500		0	0	0	NR	NR	0
TRIS	0.500		0	0	0	NR	NR	0
SSTS	0.500		0	0	0	NR	NR	0
ROD	1.500		0	0	0	0	0	0
RMP	0.500		0	0	0	NR	NR	0
RAATS	0.500		0	0	0	NR	NR	0
PRP	0.500		0	0	0	NR	NR	0
PADS	0.500		0	0	0	NR	NR	0
ICIS	0.500		0	0	0	NR	NR	0
FTTS MLTS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0
COAL ASH DOE	0.500		0	0	0	NR	NR	0 0
COAL ASH EPA	1.000		0	0	0	0	NR	0
PCB TRANSFORMER	0.500		0	0	0	NR	NR	0
RADINFO	0.500		0	0	0	NR	NR	0
HIST FTTS	0.500		0	0	0	NR	NR	0
DOT OPS	0.500		0	ő	ő	NR	NR	ő
CONSENT	1.500		Õ	Ö	Ö	0	0	Ö
INDIAN RESERV	1.500		Ö	Ö	Ö	Õ	Ö	Ö
FUSRAP	1.500		Ö	Ō	0	Ö	Ö	Ō
UMTRA	1.000		0	0	0	0	NR	0
LEAD SMELTERS	0.500		0	0	0	NR	NR	0
US AIRS	0.500		0	0	0	NR	NR	0
US MINES	0.750		0	0	0	0	NR	0
ABANDONED MINES	0.750		0	0	0	0	NR	0
MINES MRDS	0.500		0	0	0	NR	NR	0
FINDS	0.500		0	0	4	NR	NR	4
UXO	1.500		0	0	0	0	0	0
ECHO	0.500		0	0	3	NR	NR	3
DOCKET HWC	0.500		0	0	0	NR	NR	0
FUELS PROGRAM	0.750		0	0	0	0	NR	0
PFAS NPL	0.750		0	0	0	0	NR	0
PFAS FEDERAL SITES PFAS TRIS	0.750		0	0	0	0	NR NR	0
DEAG TOOA	0.750		0	0	0	0		0
PFAS TSCA PFAS RCRA MANIFEST	0.750		0	0	0	0 0	NR NR	0 0
PFAS ATSDR	0.750 0.750		0 0	0 0	0 0	0	NR	0
PFAS WQP	0.750		0	0	0	0	NR	0
PFAS NPDES	0.750		0	0	0	0	NR	0
PFAS PROJECT	0.750		0	0	NR	NR	NR	0
PFAS ECHO	0.750		0	0	1	0	NR	1
PFAS ECHO FIRE TRAIN	0.750		0	Ő	Ö	Ö	NR	Ö
PFAS PT 139 AIRPORT	0.750		Õ	Ö	Ö	Õ	NR	Ö
AQUEOUS FOAM NRC	0.750		Ö	ő	ő	Õ	NR	Ö
BIOSOLIDS	0.500		0	0	0	NR	NR	0

	Search Distance	Torget						Total
Database	(Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Plotted
UST FINDER RELEASE	1.000		0	0	0	0	NR	0
UST FINDER	0.750		0	0	0	0	NR	0
E MANIFEST	0.750		0	0	0	0	NR	0
PFAS	0.750		0	0	0	0	NR	0
AIRS	0.500		0	0	0	NR	NR	0
ASBESTOS	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.750		0	0	0	0	NR	0
Financial Assurance	0.500		0	0	0	NR	NR	0
MINES	0.750		0	0	0	0	NR	0
NPDES	0.500		0	0	0	NR	NR	0
UIC	0.500		0	0	0	NR	NR	0
EDR HIGH RISK HISTORICA	L RECORDS							
EDR Exclusive Records								
EDR MGP	1.500		0	0	0	0	0	0
EDR Hist Auto	0.625		0	0	0	0	NR	0
EDR Hist Cleaner	0.625		0	0	0	0	NR	0
EDR RECOVERED GOVERN	MENT ARCHIN	/ES						
Exclusive Recovered Go	vt. Archives							
RGA LUST	0.500 0.500		0	0	0	NR NR	NR NR	0
RGA LUST	0.500		U	0	U	INIX	INK	0
- Totals		0	0	0	8	0	0	8

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

N/A = This State does not maintain a SHWS list. See the Federal CERCLIS list.

Direction Distance

Distance EDR ID Number Elevation Site EDR ID Number Database(s) EPA ID Number

A1 LINCOLN AVENUE PHASE II FINDS 1026399062

LINCOLN AVE. NE & PASEO DEL VOLCAN NE N/A

1/4-1/2 RIO RANCHO, NM 87144

0.338 mi.

ESE

1785 ft. Site 1 of 3 in cluster A

Relative: FINDS:

Lower Registry ID: 110070705401

Actual: 5334 ft.

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

The National Pollutant Discharge Elimination System (NPDES) module of the Integrated Compliance Information System (ICIS). Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that

the discharge does not adversely affect water quality.

Click this hyperlink while viewing on your computer to access

additional FINDS: detail in the EDR Site Report.

A2 PW 2062 LINCOLN AVENUE PHASE II (A301141) ESE LINCOLN AVE. NE & PASEO DEL VOLCAN NE

1/4-1/2 RIO RANCHO, NM 87114

DFR URL:

0.338 mi.

1785 ft. Site 2 of 3 in cluster A

Relative: ECHO:

 Lower
 Envid:
 1026181715

 Actual:
 Registry ID:
 110070740446

5334 ft.

Name: PW 2062 LINCOLN AVENUE PHASE II (A301141)
Address: LINCOLN AVE. NE & PASEO DEL VOLCAN NE

City, State, Zip: RIO RANCHO, NM 87114

A3 PW 2062 LINCOLN AVENUE PHASE II (A301141) ESE LINCOLN AVE. NE & PASEO DEL VOLCAN NE

1/4-1/2 RIO RANCHO, NM 87114

0.338 mi.

1785 ft. Site 3 of 3 in cluster A

Relative: FINDS:

Lower Registry ID: 110070740446

Actual:

5334 ft. Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

The National Pollutant Discharge Elimination System (NPDES) module of the Integrated Compliance Information System (ICIS). Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that

the discharge does not adversely affect water quality.

<u>Click this hyperlink</u> while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO

FINDS

1026181715

1026419135

N/A

N/A

Direction Distance

Elevation Site Database(s) EPA ID Number

4 SANDOVAL COUNTY LANDFILL FINDS 1016339643
SSW 5 MI W OF BERNALILLO ECHO N/A
1/4-1/2 BERNALILLO, NM 87004 PFAS ECHO

0.409 mi. 2160 ft.

Relative: FINDS:

Higher Registry ID: 110028001846

Actual:

5395 ft. Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

New Mexico's -Tools For Environmental Management and Protection Organizations (NM-TEMPO) is New Mexico's integrated environmental management system.

ICIS-Air (AIR) AIR is the modernization of the Air Facility System (AFS) into the Integrated Compliance Information System (ICIS). AIR contains enforcement, compliance, and permit data for stationary

sources of air pollution regulated by the EPA, State, and Local air pollution agencies.

The Air Facility System (AFS) contains compliance and permit data for stationary sources of air pollution regulated by the EPA, state, and

local air pollution agencies.

The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many

types of information about generators, transporters, treaters,

storers, and disposers of hazardous waste.

CEDRI is a web application used by EPA programs and various stakeholders to manage environmental data transmitted to EPA in order

to meet EPA's reporting requirements.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1016339643 Registry ID: 110028001846

DFR URL:

Name: SANDOVAL COUNTY LANDFILL

Address: 5 MI W OF BERNALILLO
City, State, Zip: BERNALILLO, NM 87004

PFAS ECHO:

Name: Sandoval County Landfill

Address: Not reported
City, State, Zip: BERNALILLO, NM
Latitude: 35.315283
Longitude: -106.625243

Count: 1

County: SANDOVAL Status: Active Region: 06

Industry: Waste Management

ECHO Facility Report:

Facility Percent Minority: 47.032

Facility Derived Tribes: Pueblo of Santa Ana, New Mexico - 3 mile(s), Pueblo of Sandia, New

EDR ID Number

Direction Distance Elevation

on Site Database(s) EPA ID Number

SANDOVAL COUNTY LANDFILL (Continued)

Facility Population: EPA Programs:

1016339643

EDR ID Number

Mexico - 3 mile(s), Pueblo of Zia, New Mexico - 6 mile(s), Pueblo of San Felipe, New Mexico - 7 mile(s), Pueblo of San Felipe, New Mexico - 8 mile(s), Santo Domingo Pueblo - 17 mile(s), Pueblo of San Felipe, New Mexico - 17 mile(s), Pueblo of Jemez, New Mexico - 17 mile(s), Pueblo of Laguna, New Mexico - 19 mile(s), Navajo Nation, Arizona, New Mexico, & Utah - 23 mile(s), Pueblo of Cochiti, New Mexico - 23

mile(s) 732.05 CAA; RCRA

Federal Facility: No
Federal Agency: Facility FIPS Code: 35043
Facility Indian Country Flag: N

Facility Collection Method: GDT-ADDRESS MATCHING (GEOCODING)

0

Facility Derived HUC: 13020203 Facility Derived WBD: 130202030103

Facility Derived CD113: 03

Facility Derived CB2010: 350430107181607

Facility Major Flag: Facility Active Flag: Υ Facility Inspection Count: O 7/9/2019 Facility Date Last Inspection: Facility Days Last Inspection: 1.992 **Facility Informal Count:** 0 Facility Date Last Informal Action: Facility Formal Action Count: 0 Facility Date Last Formal Action: Facility Total Penalties: 0 Facility Penalty Count: Facility Date Last Penalty: Facility Last Penalty AMT: Facility QTRS With NC: 0

Facility Compliance Status: No Violation Identified

Facility SNC Flag: N
AIR Flag: Y
NPDES Flag: N
SDWIS Flag: N
RCRA Flag: Y
TRI Flag: N
GHG Flag: N

Facility Programs With SNC:

AIR IDS: NM0000003504300055
CAA Permit Types: Major Emissions

 CAA NAICS:
 562212

 CAA SICS:

 NPDES IDS:

 CWA Permit Types:

 CWA NAICS:

 CWA SICS:

RCRA IDS: NMR000020263

RCRA Permit Types: VSQG

RCRA NAICS: 562111 562112

SDWA IDS: SDWA System Types: SDWA Compliance Status: SDWA SNC Flag: N
TRI IDS: -

Direction Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

SANDOVAL COUNTY LANDFILL (Continued)

1016339643

EJSCREEN Report:

B5 PRITCHARD RESIDENCE ECHO 1024147211

3524 DELEDDA RD NE N/A

SE 3524 DELEDDA RD NE 1/4-1/2 RIO RANCHO, NM 87144

0.483 mi.

2551 ft. Site 1 of 2 in cluster B

Relative: ECHO:

 Lower
 Envid:
 1024147211

 Actual:
 Registry ID:
 110070252229

5334 ft.

DFR URL:

Name: PRITCHARD RESIDENCE
Address: 3524 DELEDDA RD NE
City,State,Zip: RIO RANCHO, NM 87144

B6 PRITCHARD RESIDENCE FINDS 1024245919

SE 3524 DELEDDA RD NE 1/4-1/2 RIO RANCHO, NM 87144

0.483 mi.

2551 ft. Site 2 of 2 in cluster B

Relative: FINDS:

Lower Registry ID: 110070252229

Actual:

5334 ft. Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

The National Pollutant Discharge Elimination System (NPDES) module of the Integrated Compliance Information System (ICIS). Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that

the discharge does not adversely affect water quality.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

N/A

Count: 0 records. ORPHAN SUMMARY

City EDR ID Site Name Site Address Zip Database(s)

NO SITES FOUND

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/19/2024 Source: EPA
Date Data Arrived at EDR: 01/02/2025 Telephone: N/A

Date Made Active in Reports: 01/21/2025 Last EDR Contact: 03/03/2025

Number of Days to Update: 19 Next Scheduled EDR Contact: 04/07/2025
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 EPA Region 8

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 Telephone: 415-947-4246

EPA Region 10

Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/19/2024 Source: EPA
Date Data Arrived at EDR: 01/02/2025 Telephone: N/A

Date Made Active in Reports: 01/21/2025 Last EDR Contact: 03/03/2025

Number of Days to Update: 19 Next Scheduled EDR Contact:

Next Scheduled EDR Contact: 04/07/2025
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994

Number of Days to Update: 56

Source: EPA

Telephone: 202-564-4267 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Source: EPA

Date of Government Version: 12/19/2024 Date Data Arrived at EDR: 01/02/2025 Date Made Active in Reports: 01/21/2025

Number of Days to Update: 19

Telephone: N/A

Last EDR Contact: 03/03/2025

Next Scheduled EDR Contact: 04/07/2025 Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/20/2024 Date Data Arrived at EDR: 12/18/2024 Date Made Active in Reports: 12/20/2024

Number of Days to Update: 2

Source: Environmental Protection Agency

Telephone: 703-603-8704 Last EDR Contact: 12/18/2024

Next Scheduled EDR Contact: 04/07/2025 Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/19/2024 Date Data Arrived at EDR: 01/02/2025 Date Made Active in Reports: 01/21/2025

Number of Days to Update: 19

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 03/03/2025

Next Scheduled EDR Contact: 04/21/2025 Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 12/19/2024 Date Data Arrived at EDR: 01/02/2025 Date Made Active in Reports: 01/21/2025

Number of Days to Update: 19

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 03/03/2025

Next Scheduled EDR Contact: 04/21/2025 Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 02/17/2025 Date Data Arrived at EDR: 02/19/2025 Date Made Active in Reports: 03/06/2025

Number of Days to Update: 15

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 02/19/2025

Next Scheduled EDR Contact: 03/31/2025 Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 02/17/2025 Date Data Arrived at EDR: 02/19/2025 Date Made Active in Reports: 03/06/2025

Number of Days to Update: 15

Source: Environmental Protection Agency

Telephone: 214-665-6444 Last EDR Contact: 02/19/2025

Next Scheduled EDR Contact: 03/31/2025 Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/17/2025 Date Data Arrived at EDR: 02/19/2025 Date Made Active in Reports: 03/06/2025

Number of Days to Update: 15

Source: Environmental Protection Agency Telephone: 214-665-6444

Last EDR Contact: 02/19/2025

Next Scheduled EDR Contact: 03/31/2025 Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 02/17/2025 Date Data Arrived at EDR: 02/19/2025 Date Made Active in Reports: 03/06/2025

Number of Days to Update: 15

Source: Environmental Protection Agency

Telephone: 214-665-6444 Last EDR Contact: 02/19/2025

Next Scheduled EDR Contact: 03/31/2025 Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation
and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database
includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste
as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate
less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/17/2025 Date Data Arrived at EDR: 02/19/2025 Date Made Active in Reports: 03/06/2025

Number of Days to Update: 15

Source: Environmental Protection Agency

Telephone: 214-665-6444 Last EDR Contact: 02/19/2025

Next Scheduled EDR Contact: 03/31/2025 Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 11/11/2024 Date Data Arrived at EDR: 11/25/2024 Date Made Active in Reports: 02/18/2025

Number of Days to Update: 85

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 03/04/2025

Next Scheduled EDR Contact: 05/19/2025 Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 11/04/2024 Date Data Arrived at EDR: 11/15/2024 Date Made Active in Reports: 02/11/2025

Number of Days to Update: 88

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 02/18/2025

Next Scheduled EDR Contact: 12/02/2024 Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 11/04/2024 Date Data Arrived at EDR: 11/15/2024 Date Made Active in Reports: 02/11/2025

Number of Days to Update: 88

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 02/18/2025

Next Scheduled EDR Contact: 06/02/2025

Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous

substances.

Date of Government Version: 12/03/2024 Date Data Arrived at EDR: 12/11/2024 Date Made Active in Reports: 02/18/2025

Number of Days to Update: 69

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 12/11/2024

Next Scheduled EDR Contact: 03/31/2025 Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

SCS: State Cleanup Sites Listing

State cleanup sites that fall under the state's Water Quality Control Commission Regulations.

Date of Government Version: 01/12/2023 Date Data Arrived at EDR: 01/13/2023 Date Made Active in Reports: 03/30/2023

Number of Days to Update: 76

Source: Environment Department Telephone: 505-827-2855 Last EDR Contact: 01/09/2025

Next Scheduled EDR Contact: 04/21/2025 Data Release Frequency: Varies

SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: Department of the Environment

Telephone: 505-827-2918 Last EDR Contact: 12/10/2024

Next Scheduled EDR Contact: 03/31/2025

Data Release Frequency: N/A

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF: Solid Waste Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/27/2022 Date Data Arrived at EDR: 10/31/2022 Date Made Active in Reports: 02/02/2023

Number of Days to Update: 94

Source: New Mexico Environment Department

Telephone: 505-827-0347 Last EDR Contact: 01/30/2025

Next Scheduled EDR Contact: 05/12/2025 Data Release Frequency: Annually

Lists of state and tribal leaking storage tanks

LUST: Leaking Underground Storage Tank Priorization Database

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 08/01/2006 Date Data Arrived at EDR: 10/06/2006 Date Made Active in Reports: 11/08/2006

Number of Days to Update: 33

Source: New Mexico Environment Department

Telephone: 505-476-4397 Last EDR Contact: 12/10/2024

Next Scheduled EDR Contact: 03/31/2025 Data Release Frequency: No Update Planned

LAST: Leaking Aboveground Storage Tank Sites
A listing of leaking aboveground storage tank sites.

Date of Government Version: 05/01/2006 Date Data Arrived at EDR: 05/01/2006 Date Made Active in Reports: 06/05/2006

Number of Days to Update: 35

Source: Environment Department Telephone: 505-476-4397 Last EDR Contact: 12/10/2024

Next Scheduled EDR Contact: 03/31/2025 Data Release Frequency: No Update Planned

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/11/2024 Date Data Arrived at EDR: 05/30/2024 Date Made Active in Reports: 08/28/2024

Number of Days to Update: 90

Source: EPA, Region 5 Telephone: 312-886-7439 Last EDR Contact: 01/16/2025

Next Scheduled EDR Contact: 04/28/2025

Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/07/2024 Date Data Arrived at EDR: 05/30/2024 Date Made Active in Reports: 08/28/2024

Number of Days to Update: 90

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 01/16/2025

Next Scheduled EDR Contact: 04/28/2025

Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/07/2024 Date Data Arrived at EDR: 05/30/2024 Date Made Active in Reports: 08/28/2024

Number of Days to Update: 90

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 01/16/2025

Next Scheduled EDR Contact: 04/28/2025 Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 05/07/2024 Date Data Arrived at EDR: 05/30/2024 Date Made Active in Reports: 08/28/2024

Number of Days to Update: 90

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 01/16/2025

Next Scheduled EDR Contact: 04/28/2025 Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 05/07/2024 Date Data Arrived at EDR: 05/30/2024 Date Made Active in Reports: 08/28/2024

Number of Days to Update: 90

Source: Environmental Protection Agency

Telephone: 415-972-3372 Last EDR Contact: 01/16/2025

Next Scheduled EDR Contact: 04/28/2025 Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/07/2024 Date Data Arrived at EDR: 05/30/2024 Date Made Active in Reports: 08/28/2024

Number of Days to Update: 90

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 01/16/2025

Next Scheduled EDR Contact: 04/28/2025

Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 05/07/2024 Date Data Arrived at EDR: 05/30/2024 Date Made Active in Reports: 08/28/2024

Number of Days to Update: 90

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 01/16/2025

Next Scheduled EDR Contact: 04/28/2025 Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 05/07/2024 Date Data Arrived at EDR: 05/30/2024 Date Made Active in Reports: 08/28/2024

Number of Days to Update: 90

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 01/16/2025

Next Scheduled EDR Contact: 04/28/2025 Data Release Frequency: Varies

LTANKS: Leaking Storage Tank Listing

A listing of leaking storage tank site locations.

Date of Government Version: 06/27/2024 Date Data Arrived at EDR: 07/02/2024 Date Made Active in Reports: 09/26/2024

Number of Days to Update: 86

Source: Environment Department Telephone: 505-476-4390 Last EDR Contact: 12/23/2024

Next Scheduled EDR Contact: 04/07/2025 Data Release Frequency: Annually

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 08/12/2024 Date Data Arrived at EDR: 10/30/2024 Date Made Active in Reports: 01/14/2025

Number of Days to Update: 76

Source: FEMA

Telephone: 202-646-5797 Last EDR Contact: 12/23/2024

Next Scheduled EDR Contact: 04/14/2025 Data Release Frequency: Varies

UST: Listing of Underground Storage Tanks

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 08/01/2006 Date Data Arrived at EDR: 09/27/2006 Date Made Active in Reports: 10/23/2006

Number of Days to Update: 26

Source: New Mexico Environment Department

Telephone: 505-476-4397 Last EDR Contact: 02/12/2025

Next Scheduled EDR Contact: 06/02/2025 Data Release Frequency: No Update Planned

AST: Aboveground Storage Tanks List

Aboveground tanks that have been inspected by the State Fire Marshal.

Date of Government Version: 08/01/2006 Date Data Arrived at EDR: 09/27/2006 Date Made Active in Reports: 10/20/2006

Number of Days to Update: 23

Source: Environment Department Telephone: 505-476-4397 Last EDR Contact: 02/12/2025

Next Scheduled EDR Contact: 06/02/2025 Data Release Frequency: No Update Planned

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/14/2024 Date Data Arrived at EDR: 05/30/2024 Date Made Active in Reports: 08/28/2024

Number of Days to Update: 90

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 01/16/2025

Next Scheduled EDR Contact: 04/28/2025 Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/11/2024 Date Data Arrived at EDR: 05/30/2024 Date Made Active in Reports: 08/28/2024

Number of Days to Update: 90

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 01/16/2025

Next Scheduled EDR Contact: 04/28/2025

Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 05/14/2024 Date Data Arrived at EDR: 05/30/2024 Date Made Active in Reports: 08/28/2024

Number of Days to Update: 90

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 01/16/2025

Next Scheduled EDR Contact: 04/28/2025 Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 05/14/2024 Date Data Arrived at EDR: 05/30/2024 Date Made Active in Reports: 08/28/2024

Number of Days to Update: 90

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 01/16/2025

Next Scheduled EDR Contact: 04/28/2025 Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 05/14/2024 Date Data Arrived at EDR: 05/30/2024 Date Made Active in Reports: 08/28/2024

Number of Days to Update: 90

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 01/16/2025

Next Scheduled EDR Contact: 04/28/2025

Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 05/14/2024 Date Data Arrived at EDR: 05/30/2024 Date Made Active in Reports: 08/28/2024

Number of Days to Update: 90

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 01/16/2025

Next Scheduled EDR Contact: 04/28/2025 Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 05/14/2024 Date Data Arrived at EDR: 05/30/2024 Date Made Active in Reports: 08/28/2024

Number of Days to Update: 90

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 01/16/2025

Next Scheduled EDR Contact: 04/28/2025 Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/14/2024 Date Data Arrived at EDR: 05/30/2024 Date Made Active in Reports: 08/28/2024

Number of Days to Update: 90

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 01/16/2025

Next Scheduled EDR Contact: 07/29/2024 Data Release Frequency: Varies

TANKS: Storage Tank Facility Listing

A listing of aboveground and underground storage tank site locations.

Date of Government Version: 02/20/2025 Date Data Arrived at EDR: 02/21/2025 Date Made Active in Reports: 02/25/2025

Number of Days to Update: 4

Source: Environment Department Telephone: 505-476-4390 Last EDR Contact: 02/20/2025

Next Scheduled EDR Contact: 06/02/2025 Data Release Frequency: Semi-Annually

State and tribal institutional control / engineering control registries

INST CONTROL: Sites with Institutional Controls

Sites included in the Voluntary Cleanup listing that have Institutional Controls in place.

Date of Government Version: 06/30/2024 Date Data Arrived at EDR: 10/08/2024 Date Made Active in Reports: 12/23/2024

Number of Days to Update: 76

Source: Environment Department Telephone: 505-827-2754 Last EDR Contact: 01/07/2025

Next Scheduled EDR Contact: 04/21/2025 Data Release Frequency: Semi-Annually

Lists of state and tribal voluntary cleanup sites

VCP: Voluntary Remediation Program Sites

Sites involved in the Voluntary Remediation Program.

Date of Government Version: 06/30/2024 Date Data Arrived at EDR: 10/08/2024 Date Made Active in Reports: 12/23/2024

Number of Days to Update: 76

Source: Environment Department Telephone: 505-827-2754 Last EDR Contact: 01/07/2025

Next Scheduled EDR Contact: 04/21/2025 Data Release Frequency: Semi-Annually

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 07/08/2021

Next Scheduled EDR Contact: 07/20/2009 Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015 Date Data Arrived at EDR: 09/29/2015 Date Made Active in Reports: 02/18/2016

Number of Days to Update: 142

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 03/12/2025

Next Scheduled EDR Contact: 06/30/2025 Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Brownfields Site Listing
A listing of targeted brownfields assessment.

Date of Government Version: 06/30/2024 Date Data Arrived at EDR: 07/30/2024 Date Made Active in Reports: 10/21/2024

Number of Days to Update: 83

Source: New Mexico Environment Telephone: 505-827-0171 Last EDR Contact: 01/28/2025

Next Scheduled EDR Contact: 05/12/2025

Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/09/2024 Date Data Arrived at EDR: 09/11/2024 Date Made Active in Reports: 12/06/2024

Number of Days to Update: 86

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 03/12/2025

Next Scheduled EDR Contact: 06/23/2025 Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Facility Listing
A listing of recycling facility locations.

Date of Government Version: 09/21/2022 Date Data Arrived at EDR: 10/31/2022 Date Made Active in Reports: 01/19/2023

Number of Days to Update: 80

Source: Environment Department Telephone: 505-827-0197 Last EDR Contact: 01/30/2025

Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: Annually

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008

Number of Days to Update: 52

Source: Environmental Protection Agency

Telephone: 703-308-8245 Last EDR Contact: 01/16/2025

Next Scheduled EDR Contact: 05/05/2025 Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009 Date Data Arrived at EDR: 05/07/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 137

Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 01/23/2025

Next Scheduled EDR Contact: 04/28/2025 Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004

Number of Days to Update: 39

Source: Environmental Protection Agency

Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 02/07/2024 Date Data Arrived at EDR: 11/13/2024 Date Made Active in Reports: 11/19/2024

Number of Days to Update: 6

Source: Department of Health & Human Serivces, Indian Health Service

Telephone: 301-443-1452 Last EDR Contact: 12/09/2024

Next Scheduled EDR Contact: 05/05/2025 Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/20/2024 Date Data Arrived at EDR: 08/19/2024 Date Made Active in Reports: 10/09/2024

Number of Days to Update: 51

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 02/20/2025

Next Scheduled EDR Contact: 06/02/2025 Data Release Frequency: No Update Planned

CDL: Clandestine Drug Laboratory Listing

A listing of clandestine drug labs, such as illegal methamphetamine labs.

Date of Government Version: 05/17/2018 Date Data Arrived at EDR: 07/18/2018 Date Made Active in Reports: 08/14/2018

Number of Days to Update: 27

Source: Environment Department Telephone: 505-476-6000 Last EDR Contact: 01/09/2025

Next Scheduled EDR Contact: 04/21/2025 Data Release Frequency: Varies

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/20/2024 Date Data Arrived at EDR: 08/19/2024 Date Made Active in Reports: 10/09/2024

Number of Days to Update: 51

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 02/20/2025

Next Scheduled EDR Contact: 06/02/2025 Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 12/19/2024 Date Data Arrived at EDR: 01/02/2025 Date Made Active in Reports: 01/21/2025

Number of Days to Update: 19

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 03/03/2025

Next Scheduled EDR Contact: 04/07/2025 Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/10/2024 Date Data Arrived at EDR: 12/11/2024 Date Made Active in Reports: 02/27/2025

Number of Days to Update: 78

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 12/11/2024

Next Scheduled EDR Contact: 03/31/2025 Data Release Frequency: Quarterly

SPILLS: Spill Data

Hazardous materials spills data.

Date of Government Version: 06/20/2024 Date Data Arrived at EDR: 06/20/2024 Date Made Active in Reports: 09/12/2024

Number of Days to Update: 84

Source: Environment Department Telephone: 505-827-0166 Last EDR Contact: 02/20/2025

Next Scheduled EDR Contact: 06/02/2025 Data Release Frequency: Semi-Annually

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/17/2025 Date Data Arrived at EDR: 02/19/2025 Date Made Active in Reports: 03/06/2025

Number of Days to Update: 15

Source: Environmental Protection Agency

Telephone: 214-665-6444 Last EDR Contact: 02/19/2025

Next Scheduled EDR Contact: 03/31/2025 Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 10/01/2024 Date Data Arrived at EDR: 11/12/2024 Date Made Active in Reports: 01/21/2025

Number of Days to Update: 70

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 02/11/2025

Next Scheduled EDR Contact: 05/26/2025 Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021 Date Data Arrived at EDR: 07/13/2021 Date Made Active in Reports: 03/09/2022

Number of Days to Update: 239

Source: USGS

Telephone: 888-275-8747 Last EDR Contact: 01/07/2025

Next Scheduled EDR Contact: 04/21/2025 Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019

Number of Days to Update: 574

Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 12/30/2024 Next Scheduled EDR Contact: 04/14/2025

Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 07/30/2021 Date Data Arrived at EDR: 02/03/2023 Date Made Active in Reports: 02/10/2023

Number of Days to Update: 7

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 02/03/2025

Next Scheduled EDR Contact: 05/19/2025 Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 02/17/2025 Date Data Arrived at EDR: 02/19/2025 Date Made Active in Reports: 03/06/2025

Number of Days to Update: 15

Source: Environmental Protection Agency Telephone: 202-566-1917 Last EDR Contact: 02/19/2025

Next Scheduled EDR Contact: 03/31/2025 Data Release Frequency: Quarterly

EPA WATCH LIST: EPA Watch List

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014

Number of Days to Update: 88

Source: Environmental Protection Agency Telephone: 617-520-3000

Last EDR Contact: 01/27/2025

Next Scheduled EDR Contact: 05/12/2025 Data Release Frequency: No Update Planned

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017 Date Data Arrived at EDR: 05/08/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 73

Source: Environmental Protection Agency

Telephone: 703-308-4044 Last EDR Contact: 01/30/2025

Next Scheduled EDR Contact: 05/12/2025 Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant

Date of Government Version: 12/31/2020 Date Data Arrived at EDR: 06/14/2022 Date Made Active in Reports: 03/24/2023 Number of Days to Update: 283 Source: EPA Telephone: 202-260-5521 Last EDR Contact: 03/10/2025

Next Scheduled EDR Contact: 06/23/2025 Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2023 Date Data Arrived at EDR: 02/11/2025 Date Made Active in Reports: 02/18/2025 Source: EPA Telephone: 202-566-0250 Last EDR Contact: 02/11/2025

Number of Days to Update: 7

Next Scheduled EDR Contact: 05/26/2025

Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 10/15/2024 Date Data Arrived at EDR: 10/16/2024 Date Made Active in Reports: 01/14/2025

Source: EPA

Telephone: 202-564-4203 Last EDR Contact: 01/15/2025

Number of Days to Update: 90

Next Scheduled EDR Contact: 04/28/2025 Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 01/29/2025 Date Data Arrived at EDR: 02/03/2025 Date Made Active in Reports: 02/27/2025

Number of Days to Update: 24

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 03/03/2025

Next Scheduled EDR Contact: 06/09/2025 Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 10/01/2024 Date Data Arrived at EDR: 10/23/2024 Date Made Active in Reports: 01/14/2025

Number of Days to Update: 83

Source: Environmental Protection Agency

Telephone: 202-564-8600 Last EDR Contact: 01/09/2025

Next Scheduled EDR Contact: 04/28/2025

Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995

Number of Days to Update: 35

Source: EPA

Telephone: 202-564-4104 Last EDR Contact: 06/02/2008

Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 09/19/2023 Date Data Arrived at EDR: 10/03/2023 Date Made Active in Reports: 10/19/2023

Number of Days to Update: 16

Source: EPA

Telephone: 202-564-6023 Last EDR Contact: 03/03/2025

Next Scheduled EDR Contact: 05/12/2025 Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2024 Date Data Arrived at EDR: 10/02/2024 Date Made Active in Reports: 01/10/2025

Number of Days to Update: 100

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 01/02/2025

Next Scheduled EDR Contact: 04/14/2025 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016 Date Data Arrived at EDR: 11/23/2016 Date Made Active in Reports: 02/10/2017

Number of Days to Update: 79

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/23/2024

Next Scheduled EDR Contact: 04/14/2025 Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 08/18/2017

Next Scheduled EDR Contact: 12/04/2017 Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA Telephone: 202-566-1667

Last EDR Contact: 08/18/2017 Next Scheduled EDR Contact: 12/04/2017 Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/12/2024 Date Data Arrived at EDR: 10/17/2024 Date Made Active in Reports: 11/19/2024

Number of Days to Update: 33

Source: Nuclear Regulatory Commission

Telephone: 301-415-0717 Last EDR Contact: 01/09/2025

Next Scheduled EDR Contact: 04/28/2025 Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2023 Date Data Arrived at EDR: 10/16/2024 Date Made Active in Reports: 01/14/2025

Number of Days to Update: 90

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 02/24/2025

Next Scheduled EDR Contact: 06/09/2025 Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017 Date Data Arrived at EDR: 03/05/2019 Date Made Active in Reports: 11/11/2019

Number of Days to Update: 251

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 02/24/2025

Next Scheduled EDR Contact: 06/09/2025 Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019 Date Data Arrived at EDR: 11/06/2019 Date Made Active in Reports: 02/10/2020

Number of Days to Update: 96

Source: Environmental Protection Agency Telephone: 202-566-0517

Last EDR Contact: 01/30/2025

Next Scheduled EDR Contact: 05/12/2025 Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019 Date Data Arrived at EDR: 07/01/2019 Date Made Active in Reports: 09/23/2019

Number of Days to Update: 84

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 12/17/2024

Next Scheduled EDR Contact: 04/07/2025 Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2007

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2008

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 10/04/2024 Date Data Arrived at EDR: 10/16/2024 Date Made Active in Reports: 12/06/2024

Number of Days to Update: 51

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 01/22/2025

Next Scheduled EDR Contact: 05/05/2025 Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2024 Date Data Arrived at EDR: 10/09/2024 Date Made Active in Reports: 01/10/2025

Number of Days to Update: 93

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 12/30/2024

Next Scheduled EDR Contact: 04/14/2025 Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2023 Date Data Arrived at EDR: 02/19/2025 Date Made Active in Reports: 03/07/2025

Number of Days to Update: 16

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 12/12/2024

Next Scheduled EDR Contact: 03/31/2025 Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater

Source: USGS

than 640 acres.

Date of Government Version: 12/31/2014 Date Data Arrived at EDR: 07/14/2015 Date Made Active in Reports: 01/10/2017 Number of Days to Update: 546

Telephone: 202-208-3710 Last EDR Contact: 12/30/2024

Next Scheduled EDR Contact: 04/14/2025 Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 03/03/2023 Date Data Arrived at EDR: 03/03/2023 Date Made Active in Reports: 06/09/2023 Source: Department of Energy Telephone: 202-586-3559 Last EDR Contact: 01/23/2025

Number of Days to Update: 98

Next Scheduled EDR Contact: 05/12/2025

Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 02/12/2025 Date Data Arrived at EDR: 02/12/2025 Date Made Active in Reports: 02/27/2025

Telephone: 505-845-0011 Last EDR Contact: 02/06/2025

Number of Days to Update: 15

Next Scheduled EDR Contact: 05/26/2025

Data Release Frequency: Varies

Source: Department of Energy

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/19/2024 Date Data Arrived at EDR: 01/02/2025 Date Made Active in Reports: 01/21/2025

Telephone: 703-603-8787 Last EDR Contact: 03/03/2025

Number of Days to Update: 19

Next Scheduled EDR Contact: 04/07/2025

Source: Environmental Protection Agency

Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001 Date Data Arrived at EDR: 10/27/2010 Date Made Active in Reports: 12/02/2010 Number of Days to Update: 36

Source: American Journal of Public Health

Telephone: 703-305-6451 Last EDR Contact: 12/02/2009 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016 Date Data Arrived at EDR: 10/26/2016 Date Made Active in Reports: 02/03/2017

Number of Days to Update: 100

US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017

Number of Days to Update: 100

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 09/26/2017

Next Scheduled EDR Contact: 01/08/2018 Data Release Frequency: Annually

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 09/26/2017

Next Scheduled EDR Contact: 01/08/2018 Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 10/01/2024 Date Data Arrived at EDR: 10/02/2024 Date Made Active in Reports: 10/09/2024

Number of Days to Update: 7

Source: DOL, Mine Safety & Health Admi

Telephone: 202-693-9424 Last EDR Contact: 02/19/2025

Next Scheduled EDR Contact: 06/02/2025 Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/01/2024 Date Data Arrived at EDR: 11/18/2024 Date Made Active in Reports: 02/11/2025

Number of Days to Update: 85

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 02/18/2025

Next Scheduled EDR Contact: 06/02/2025 Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/02/2024 Date Data Arrived at EDR: 08/20/2024 Date Made Active in Reports: 10/09/2024

Number of Days to Update: 50

Source: USGS

Telephone: 703-648-7709 Last EDR Contact: 02/20/2025

Next Scheduled EDR Contact: 06/02/2025 Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011 Date Data Arrived at EDR: 06/08/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 97

Source: USGS

Telephone: 703-648-7709 Last EDR Contact: 02/20/2025

Next Scheduled EDR Contact: 06/02/2025

Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 12/10/2024 Date Data Arrived at EDR: 12/11/2024 Date Made Active in Reports: 02/18/2025

Number of Days to Update: 69

Source: Department of Interior Telephone: 202-208-2609 Last EDR Contact: 03/12/2025

Next Scheduled EDR Contact: 06/16/2025 Data Release Frequency: Quarterly

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 06/04/2024 Date Data Arrived at EDR: 11/22/2024 Date Made Active in Reports: 02/18/2025

Number of Days to Update: 88

Source: USGS

Telephone: 703-648-6533 Last EDR Contact: 02/20/2025

Next Scheduled EDR Contact: 06/02/2025 Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/11/2024 Date Data Arrived at EDR: 11/20/2024 Date Made Active in Reports: 02/18/2025

Number of Days to Update: 90

Source: EPA

Telephone: (214) 665-2200 Last EDR Contact: 02/25/2025

Next Scheduled EDR Contact: 06/09/2025 Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021 Date Data Arrived at EDR: 05/21/2021 Date Made Active in Reports: 08/11/2021

Number of Days to Update: 82

Source: Environmental Protection Agency

Telephone: 202-564-0527 Last EDR Contact: 02/12/2025

Next Scheduled EDR Contact: 06/02/2025 Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 12/21/2024 Date Data Arrived at EDR: 12/27/2024 Date Made Active in Reports: 01/10/2025

Number of Days to Update: 14

Source: Environmental Protection Agency

Telephone: 202-564-2280 Last EDR Contact: 12/27/2024

Next Scheduled EDR Contact: 04/14/2025 Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/06/2023 Date Data Arrived at EDR: 09/13/2023 Date Made Active in Reports: 12/11/2023

Number of Days to Update: 89

Source: Department of Defense Telephone: 703-704-1564 Last EDR Contact: 01/06/2025

Next Scheduled EDR Contact: 04/21/2025 Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels

Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/08/2024 Date Data Arrived at EDR: 11/08/2024 Date Made Active in Reports: 01/14/2025

Number of Days to Update: 67

Source: EPA

Telephone: 800-385-6164 Last EDR Contact: 02/13/2025

Next Scheduled EDR Contact: 05/26/2025 Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 12/30/2024 Date Data Arrived at EDR: 01/02/2025 Date Made Active in Reports: 01/10/2025

Number of Days to Update: 8

Source: Environmental Protection Agency

Telephone: 703-603-8895 Last EDR Contact: 02/20/2025

Next Scheduled EDR Contact: 04/14/2025 Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 12/30/2024 Date Data Arrived at EDR: 01/02/2025 Date Made Active in Reports: 01/10/2025

Number of Days to Update: 8

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 02/20/2025

Next Scheduled EDR Contact: 04/14/2025 Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 12/30/2024 Date Data Arrived at EDR: 01/02/2025 Date Made Active in Reports: 01/10/2025

Number of Days to Update: 8

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 02/20/2025

Next Scheduled EDR Contact: 04/14/2025 Data Release Frequency: Varies

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 12/30/2024 Date Data Arrived at EDR: 01/02/2025 Date Made Active in Reports: 01/10/2025

Number of Days to Update: 8

Source: Environmental Protection Agency

Telephone: 202-566-0250 Last EDR Contact: 02/20/2025

Next Scheduled EDR Contact: 04/14/2025 Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 12/30/2024 Date Data Arrived at EDR: 01/02/2025 Date Made Active in Reports: 01/10/2025

Number of Days to Update: 8

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 02/20/2025

Next Scheduled EDR Contact: 04/14/2025 Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020 Date Data Arrived at EDR: 03/17/2021 Date Made Active in Reports: 11/08/2022

Number of Days to Update: 601

Source: Department of Health & Human Services

Telephone: 202-741-5770

Last EDR Contact: 01/16/2025

Next Scheduled EDR Contact: 05/05/2025

Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 12/13/2024 Date Data Arrived at EDR: 01/02/2025 Date Made Active in Reports: 01/10/2025

Number of Days to Update: 8

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 02/20/2025

Next Scheduled EDR Contact: 04/14/2025 Data Release Frequency: Varies

PFAS PROJECT: NORTHEASTERN UNIVERSITY PFAS PROJECT

The PFAS Contamination Site Tracker records qualitative and quantitative data from each site in a chart, specifically examining discovery, contamination levels, government response, litigation, health impacts, media coverage, and community characteristics. All data presented in the chart were extracted from government websites, such as state health departments or the Environmental Protection Agency, and news articles.

Date of Government Version: 05/19/2023 Date Data Arrived at EDR: 04/05/2024 Date Made Active in Reports: 06/06/2024

Number of Days to Update: 62

Source: Social Science Environmental Health Research Institute

Telephone: N/A

Last EDR Contact: 03/06/2025

Next Scheduled EDR Contact: 06/16/2025 Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits. Caveats and Limitations: Less than half of states have required PFAS monitoring for at least one of their permittees and fewer states have established PFAS effluent limits for permittees. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future.

Date of Government Version: 12/30/2024 Date Data Arrived at EDR: 01/02/2025 Date Made Active in Reports: 01/14/2025

Number of Days to Update: 12

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 01/02/2025

Next Scheduled EDR Contact: 04/14/2025 Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 12/30/2024 Date Data Arrived at EDR: 01/02/2025 Date Made Active in Reports: 01/10/2025

Number of Days to Update: 8

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 02/20/2025

Next Scheduled EDR Contact: 04/14/2025 Data Release Frequency: Varies

PFAS ECHO FIRE TRAIN: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 12/30/2024 Date Data Arrived at EDR: 01/02/2025 Date Made Active in Reports: 01/10/2025

Number of Days to Update: 8

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 02/20/2025

Next Scheduled EDR Contact: 04/14/2025 Data Release Frequency: Varies

PFAS PT 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 12/30/2024 Date Data Arrived at EDR: 01/02/2025 Date Made Active in Reports: 01/10/2025

Number of Days to Update: 8

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 02/20/2025

Next Scheduled EDR Contact: 04/14/2025

Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 12/30/2024 Date Data Arrived at EDR: 01/02/2025 Date Made Active in Reports: 01/10/2025

Number of Days to Update: 8

Source: Environmental Protection Agency

Telephone: 202-267-2675 Last EDR Contact: 02/20/2025

Next Scheduled EDR Contact: 04/14/2025 Data Release Frequency: Varies

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014 Date Data Arrived at EDR: 02/05/2015 Date Made Active in Reports: 03/06/2015

Number of Days to Update: 29

Source: EPA

Telephone: 202-564-2497 Last EDR Contact: 12/23/2024

Next Scheduled EDR Contact: 04/14/2025 Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 12/16/2016 Date Data Arrived at EDR: 01/06/2017 Date Made Active in Reports: 03/10/2017

Number of Days to Update: 63

Source: EPA, Office of Water Telephone: 202-564-2496 Last EDR Contact: 12/23/2024

Next Scheduled EDR Contact: 04/14/2025 Data Release Frequency: No Update Planned

BIOSOLIDS: ICIS-NPDES Biosolids Facility Data

The data reflects compliance information about facilities in the biosolids program.

Date of Government Version: 10/13/2024 Date Data Arrived at EDR: 10/16/2024 Date Made Active in Reports: 10/23/2024

Number of Days to Update: 7

Source: Environmental Protection Agency

Telephone: 202-564-4700 Last EDR Contact: 01/14/2025

Next Scheduled EDR Contact: 04/28/2025

Data Release Frequency: Varies

UST FINDER: UST Finder Database

EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories. UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

Date of Government Version: 06/08/2023 Date Data Arrived at EDR: 10/04/2023 Date Made Active in Reports: 01/18/2024

Number of Days to Update: 106

Source: Environmental Protection Agency

Telephone: 202-564-0394 Last EDR Contact: 02/06/2025

Next Scheduled EDR Contact: 05/19/2025 Data Release Frequency: Varies

UST FINDER RELEASE: UST Finder Releases Database

US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

Date of Government Version: 06/08/2023 Date Data Arrived at EDR: 10/31/2023 Date Made Active in Reports: 01/18/2024

Number of Days to Update: 79

Source: Environmental Protecton Agency

Telephone: 202-564-0394 Last EDR Contact: 02/06/2025

Next Scheduled EDR Contact: 05/19/2025 Data Release Frequency: Semi-Annually

E MANIFEST: Hazardous Waste Electronic Manifest System

EPA established a national system for tracking hazardous waste shipments electronically. This system, known as ?e-Manifest,? will modernize the nation?s cradle-to-grave hazardous waste tracking process while saving valuable time, resources, and dollars for industry and states.

Date of Government Version: 09/16/2024 Date Data Arrived at EDR: 09/17/2024 Date Made Active in Reports: 12/20/2024

Number of Days to Update: 94

Source: Environmental Protection Agency

Telephone: 833-501-6826 Last EDR Contact: 02/19/2025

Next Scheduled EDR Contact: 03/31/2025 Data Release Frequency: Varies

PFAS: Per- and Polyfluoroalkyl Substances (PFAS) Data

Site locations where Per- and Polyfluoroalkyl Substances (PFAS) contamination has been detected.

Date of Government Version: 12/31/2023 Date Data Arrived at EDR: 07/11/2024 Date Made Active in Reports: 07/11/2024

Number of Days to Update: 0

Source: New Mexico Environment Department

Telephone: 505-827-2919 Last EDR Contact: 01/09/2025

Next Scheduled EDR Contact: 04/21/2025

Data Release Frequency: Varies

AIRS: Airs Information

A listing of facilities with Air Quality Bureau permits.

Date of Government Version: 10/16/2024 Date Data Arrived at EDR: 10/17/2024 Date Made Active in Reports: 01/07/2025

Number of Days to Update: 82

Source: New Mexico Environment Department

Telephone: 505-476-4339 Last EDR Contact: 01/23/2025

Next Scheduled EDR Contact: 04/28/2025 Data Release Frequency: Annually

ASBESTOS: List of Asbestos Demolition and Renovations Jobs

Asbestos is a common fibrous rock found worldwide which has been used in various products for over 4500 years. It has been used in over 3000 different products such as textiles, paper, ropes, wicks, stoves, filters, floor tiles, roofing shingles, clutch facings, water pipe, cements, fillers, felt, fireproof clothing, gaskets, battery boxes, clapboard, wallboard, fire doors, fire curtains, insulation, brake linings, etc.

Date of Government Version: 10/16/2024 Date Data Arrived at EDR: 10/22/2024 Date Made Active in Reports: 01/09/2025

Number of Days to Update: 79

Source: New Mexico Environment Department

Telephone: 505-827-1494 Last EDR Contact: 01/09/2025

Next Scheduled EDR Contact: 04/28/2025 Data Release Frequency: Semi-Annually

DRYCLEANERS: Drycleaner Facility Listing

A listing of drycleaner facility locations. The listing may contain facilities that are no longer there, or under different management.

Date of Government Version: 01/06/2010 Date Data Arrived at EDR: 01/07/2010 Date Made Active in Reports: 02/04/2010

Number of Days to Update: 28

Source: Environment Department Telephone: 505-222-9507 Last EDR Contact: 12/10/2024

Next Scheduled EDR Contact: 03/31/2025 Data Release Frequency: No Update Planned

FIN ASSURANCE 1: Financial Assurance Information

Information for underground solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 12/03/2012 Date Data Arrived at EDR: 01/04/2013 Date Made Active in Reports: 01/10/2013

Number of Days to Update: 6

Source: Environment Department Telephone: 505-827-0197 Last EDR Contact: 01/16/2025

Next Scheduled EDR Contact: 05/05/2025 Data Release Frequency: Varies

FIN ASSURANCE 2: Financial Assurance Information

Information for underground hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 10/30/2024 Date Data Arrived at EDR: 11/06/2024 Date Made Active in Reports: 01/30/2025

Number of Days to Update: 85

Source: Environment Department Telephone: 505-476-6018 Last EDR Contact: 01/16/2025

Next Scheduled EDR Contact: 05/05/2025 Data Release Frequency: Annually

COAL MINES: Coal Mine Permits Database

New Mexico coal mines permitted under the Surface Mining Control and Reclamation Act of 1977 (SMCRA), by either the NM Mining & Minerals Division (MMD), or by the federal DOI Office of Surface Mining, Reclamation & Enforcement.

Date of Government Version: 12/06/2024 Date Data Arrived at EDR: 12/06/2024 Date Made Active in Reports: 02/25/2025

Number of Days to Update: 81

Source: Bureau of Geology and Mineral Resources

Telephone: 505-476-3402 Last EDR Contact: 03/11/2025

Next Scheduled EDR Contact: 06/23/2025

Data Release Frequency: Varies

COAL MINES 2: Coal Permit Boundaries

ESRI ArcView shapefile depicting New Mexico coal mines permitted under the Surface Mining Control and Reclamation Act of 1977 (SMCRA), by either the NM Mining & Minerals Division (MMD), or by the federal DOI Office of Surface

Mining, Reclamation & Enforcement.

Date of Government Version: 12/06/2024 Date Data Arrived at EDR: 12/06/2024 Date Made Active in Reports: 02/25/2025

Number of Days to Update: 81

Source: Mining & Minerals Division

Telephone: 505-476-3417 Last EDR Contact: 03/11/2025

Next Scheduled EDR Contact: 06/23/2025

Data Release Frequency: Varies

NPDES: List of Discharge Permits

General information regarding NPDES (National Pollutant Discharge Elimination System) permits.

Date of Government Version: 08/31/2023 Date Data Arrived at EDR: 10/11/2023 Date Made Active in Reports: 01/03/2024

Number of Days to Update: 84

Source: Environment Department Telephone: 505-827-2918 Last EDR Contact: 01/09/2025

Next Scheduled EDR Contact: 04/21/2025 Data Release Frequency: Semi-Annually

UIC: Underground Injection Control Listing

The listing includes Discharge Permits (DP) with Underground Injection Control Wells, located in New Mexico.

Date of Government Version: 09/25/2024 Date Data Arrived at EDR: 10/08/2024 Date Made Active in Reports: 12/23/2024

Number of Days to Update: 76

Source: New Mexico Environment Department

Telephone: 505-827-2936 Last EDR Contact: 01/07/2025

Next Scheduled EDR Contact: 04/21/2025

Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A

Date Data Arrived at EDR: N/A

Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: EDR, Inc.

Telephone: N/A

Last EDR Contact: N/A

Next Scheduled EDR C

Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the New Mexico Environment Department in New Mexico.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/16/2014
Number of Days to Update: 199

Source: New Mexico Environment Department

Source: New Mexico Environment Department

Telephone: N/A

Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists.

Compiled from Records formerly available from the New Mexico Environment Department in New Mexico.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 186

Telephone: N/A

Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2019 Date Data Arrived at EDR: 11/30/2023 Date Made Active in Reports: 12/01/2023

Number of Days to Update: 1

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 01/23/2025

Next Scheduled EDR Contact: 05/05/2025 Data Release Frequency: Quarterly

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018 Date Data Arrived at EDR: 06/19/2019 Date Made Active in Reports: 09/03/2019

Number of Days to Update: 76

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 02/26/2025

Next Scheduled EDR Contact: 06/16/2025 Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Child Day Care Providers

Source: Office of Child Development

Telephone: 505-827-7946

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory Source: US Fish & Wildlife Service Telephone: 505-248-6660

Current USGS 7.5 Minute Topographic Map Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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Appendix C

Biological Assessment/ Biological Evaluation



Biological Assessment/ Biological Evaluation Upper Venada Arroyo Rio Rancho, New Mexico

Prepared for Southern Sandoval County Arroyo Flood Control Authority

Prepared by



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September 30, 2022



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1. Introduction

Daniel B. Stephens & Associates, Inc. (DBS&A) was contracted by the Southern Sandoval County Arroyo Flood Control Authority (SSCAFCA) to prepare a biological assessment (BA)/biological evaluation (BE) in support of a storm drainage improvement project (the Proposed Action) within the City of Rio Rancho, Sandoval County, New Mexico (Figure 1). The project is located within SSCAFCA property and a SSCAFCA easement. The project is within Upper Venada Arroyo (the Arroyo), a tributary to the Rio Grande (a water of the United States). The purpose of the BA/BE is to assess the potential impacts of the Proposed Action on federally and state protected natural resources. The U.S. Army Corps of Engineers (USACE), which administers the 404 permit process, is the lead federal agency for the Proposed Action.

Section 7(a)(1) of the Endangered Species Act (ESA) directs all federal agencies to carry out programs for the conservation of endangered and threatened species. Section 7(a)(2) of the ESA requires federal agencies to ensure that any actions authorized, funded, or carried out by the agency are not likely to jeopardize the continued existence of any threatened, endangered, or proposed species or to adversely modify critical habitat. This BA/BE supports the USACE's consultation under Section 7 of the ESA, and documents the potential effects of the Proposed Action on federally listed endangered and threatened species that have the potential to occur in the Action Area , together with and critical habitat for any of these species. It also helps fulfill requirements set forth under the State of New Mexico's Wildlife Conservation Act [17-2-37 NMSA 1978]. Under the Wildlife Conservation Act, it is unlawful to "take" species determined to be endangered within the state as set forth by regulations of the State Game Commission. From Section 3(18) of the Federal Endangered Species Act, the term "take" means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct." As used in the Wildlife Conservation Act [17-2-37 to 17-2-46 NMSA 1978], "take" or "taking" means to harass, hunt, capture or kill any wildlife or attempt to do so.

1.1 Project Purpose and Need

The purpose of the proposed action is to provide flood protection for Rio Rancho infrastructure and development adjacent to or downstream of the Project Area. The project is needed because flooding has been an ongoing issue, leading to erosion of the Arroyo banks. Flooding has been caused in part by increased urban development of the region.



1.2 Location and Description of the Proposed Action

The Project Area is located northwest of Paseo de Vulcan (NM347) and east of Westphalia Boulevard NE in Rio Rancho, New Mexico, in an area of mostly undeveloped land. SSCAFCA is proposing to use the main branch of the Arroyo and flow diversion/lateral weir structure to divert the maximum flows possible into an off-channel pond and allow the low flows to bypass the lateral weir. Additionally, the proposed project will provide stormwater quality improvement by means of the principal spillway structure design. There is also the possibility of downstream channel stabilization and bank armoring. A variety of materials and channel profile configurations will be considered during the design phase of the project.

The project is needed to provide flood protection for adjacent and downstream neighborhoods and erosion control for the Arroyo. The project would be funded through the USACE and with SSCAFCA bonds. The project is located within the Arroyo and is SSCAFCA owned or maintained.

Best management practices (BMPs) will be implemented as part of the project for compliance with the required conditions of the 404 permit. Conditions will be met as required by Clean Water Act (CWA) §§ 301, 302, 303, 306, and 307, and will include the following:

- Fuel, oil, hydraulic fluid, lubricants, and other petrochemicals will not be stored within the 100-year floodplain, and will have a secondary containment system capable of containing twice the volume of the product. Appropriate spill cleanup materials such as booms and absorbent pads will be available on-site at all times during construction.
- All heavy equipment used in the Project Area will be pressure washed and/or steam cleaned before the start of the project and will be inspected daily for leaks. A written log of inspections and maintenance will be completed and maintained throughout the project period. Leaking equipment will not be used in or near surface water. Refueling equipment will be kept at least 100 feet from surface water.
- Work in the stream channel will be limited to periods of no flow.
- Temporary crossings will be restricted to a single location, will be perpendicular to the channel, and will be at a narrow point of the channel to minimize disturbance. Heavy equipment will be operated from the bank or work platforms and will not enter surface water. Heavy equipment will not be parked within the stream channel. Directional borehole (horizontal) drilling will be used instead of open-cut trenching for the placement of utility lines or other buried structures crossing the channel.



- All asphalt, concrete, drilling fluids and muds, and other construction materials will 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 contact with surface water or groundwater. Appropriate measures will be used to prevent wastewater (i.e., from concrete batching, vehicle washdown, or aggregate processing) from entering the watercourse. No dumping of any waste materials will occur in or near watercourses.
- Protective measures will be used to prevent blasted, ripped, or excavated soil or rock from
 entering surface water. Construction excavation dewatering discharges will be
 uncontaminated, and will include all practicable erosion control measures and turbidity
 control techniques.
- All areas adjacent to the watercourse that are disturbed as a result of the project, including temporary access roads, stockpiles, and staging areas, will be restored to pre-project elevations unless the change is part of the project design. Disturbed areas outside the channel that are not otherwise physically protected from erosion will be reseeded or planted with native vegetation. Stabilization measures, including vegetation, will be taken at the earliest practicable date, but by the end of the first full growing season following construction. Appropriate riparian and/or wetland species will be used in areas that support such vegetation. Plantings will be monitored and replaced for an overall survival rate of at least 50 percent by the end of the second growing season. SSCAFCA will ensure that, once established, native plants adapted to the site are able to thrive with no supplemental water or treatment.

The project scheduling and phasing have not been determined at this time.

Land within the surrounding area is primarily private property. The Project Area is shown on the Bernalillo, NM, New Mexico 7.5-minute U.S. Geological Survey (USGS) quadrangle map (USGS, 2006).

The proposed project limits are at the following coordinates:

- West (upstream) project limits: East of Progress Boulevard and Westphalia Boulevard
- 35°19'25.0" N latitude, 106°38'05.6" W longitude (North American Datum [NAD] 83)
- Elevation of 5,426 feet above mean sea level (feet msl)



- East (downstream) and end of channel improvements: Upper Venada Arroyo at Progress
 Boulevard
- 35°19′16.8″ N latitude, 106°36′45.1 W longitude (NAD 83)
- Elevation of 5,306 feet msl

The proposed project footprint includes approximately 1.5 miles of channel at an average of 100-foot width of channel, access road, and pond, for a total of 132 acres. Figures 1 through 3 show the project location and Project Area.

2. Project History

The history of recent channel improvement projects is not known. Based on observations of the Project Area, it appears that an earthen dam for a livestock pond had been constructed at the southwestern portion of the Project Area at a minor tributary, but also catches some runoff from Upper Venada Arroyo. It is assumed that no previous biological surveys have been conducted for the Project Area.

3. Action Area

The Action Area is defined by the exposure to potential project impacts, including those related to noise or to increased sedimentation or turbidity downstream of the project footprint. Analysis of the Action Area is aimed at evaluating potential impacts to species listed under the federal Endangered Species Act (ESA), critical habitat, other special-status species, and other biological resources related to the effects of stormwater discharge during construction.

Figure 3 shows the boundaries of the project footprint and the Action Area. The Action Area for the proposed project consists of the Project Area, including the channel bottom of the Arroyo, the area of the proposed pond, 100 feet upstream of the beginning of the project at the upstream beginning of project, 500 feet downstream of the arroyo crossing at Progress Boulevard (end of the project), and 50 feet beyond the Project Area above the channel.

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4. Methods

4.1 Off-Site Methodology

Prior to the biological field survey of the Project Area, a request for data regarding threatened and endangered species was submitted to the U.S. Fish and Wildlife Service (USFWS) Information, Planning and Conservation System (IPaC). Based on the IPaC report provided by the USFWS (USFWS, 2022a) (Appendix A), research was then conducted on special-status species that could potentially occur in the general area. Other relevant documents were reviewed to determine the locations and types of biological resources that have the potential to exist within the Project Area and Action Area. The USFWS National Wetland Inventory (USFWS, 2022b) was queried for wetland habitats in the Project Area and Action Area.

The New Mexico Department of Game and Fish (NMDGF) Biota Information System of New Mexico (BISON-M) (NMDGF, 2022) was queried for state-listed threatened and endangered species (Appendix B). The New Mexico state endangered plant species list (EMNRD, 2017) was queried for records of occurrence of special-status plant species that may potentially occur in the area. Based on the information generated by the National Wetlands Inventory mapper, wetland maps were generated showing the proximity of the habitats to the Project Area (Figure 3). In addition, potential noxious weed lists for New Mexico were reviewed (Ashigh et al., 2010; NRCS, 2003).

4.2 Survey Method

DBS&A biologist Julie Kutz conducted a 100 percent pedestrian survey of the biological survey area. The biological survey area (Figure 3) included the Arroyo from east of Westphalia Boulevard downstream to the intersection of the Arroyo and Progress Boulevard, a distance of approximately 1.5 miles.

The field survey was conducted on September 16, 2022 beginning at 8:20 a.m. and ending at 2:35 p.m. Weather conditions during the survey were clear, calm, and seasonally average, with a temperature ranging from approximately 50°F to 62°F.

The survey was performed to assess general and dominant vegetation community types, community sizes, habitat types, and species present within communities. Community types were based on observed dominant vegetation composition and density. Vegetation classifications of plant communities in the study area were derived from the criteria and definitions of Dick-



Peddie (1993), Brown (1994), the ecoregions map for New Mexico by Griffith et al. (2006), and the National Gap Analysis Program (GAP) (USGS, 2019). Plants were identified as possible to the lowest taxonomic level sufficient to determine whether the plant species observed were non-native, native, and/or special status. Plants of uncertain identity were subsequently identified from taxonomic keys provided by DeWitt Ivey (2003), Carter (2012), and Allred and DeWitt Ivey (2012). Scientific and common species names were recorded according to the U.S. Department of Agriculture (USDA) PLANTS database (USDA, 2022).

Fauna occurring in the biological survey area were recorded based on direct observation, wildlife sign (e.g., tracks, burrows, nests, scat), or vocalization. Field data compiled for wildlife included the species scientific name, common name, and evidence of sign when no direct observations were made. Wildlife of uncertain identity was documented and subsequently identified from specialized field guides and related literature (Sibley, 2000; Alderfer and Dunn, 2014; Burt and Grossenheider, 1980; Cartron, 2010; Murie, 1982).

The Action Area was determined first by a review of an aerial photograph of current conditions (Google Earth, 2020), the USFWS IPaC report for the Project Area (Appendix A), and the USFWS wetland inventory (USFWS, 2022b) to aid in determining biological features of the project footprint and surrounding land. The Action Area boundaries were then further defined based on the location of the project, findings of the biological survey, and the type of project impacts as they relate to occurrence of special-status species or species of importance, critical habitat, and stormwater runoff (i.e., some distance off-site where sedimentation or turbidity or erosion may have an effect). The Action Area was thus determined to include the area around the Arroyo, approximately 100 feet beyond the survey area at the upstream end and 500 feet downstream of the Arroyo.

5. Regulatory Context

Regulatory laws applicable to the project and Action Area include, but are not limited to, the following:

- Endangered Species Act (ESA)
- Migratory Bird Treaty Act (MBTA)
- Bald and Golden Eagle Protection Act



- CWA Section 401
- CWA Section 404
- Executive Order 11990 (Protection of Wetlands)
- Noxious Weed Management Act
- Executive Order 11988 (Floodplain Management)

6. General Environmental Setting

6.1 Ecoregions

The proposed project is located along Upper Venada Arroyo, an ephemeral drainage that is a direct tributary to the Rio Grande, located approximately 3.5 miles from the end of project. The channel is within the Albuquerque Basin ecoregion (Griffith et al., 2006). The basin is warmer and drier than surrounding ecoregions, and is filled with thick sediments of mostly Quaternary and some Tertiary age, with a few areas of volcanic rocks and lava-capped mesas. The vegetation of the ecoregion is dominated by sand scrub and desert grassland species including drought-resistant perennial bunchgrasses (growing in clumps), especially Indian ricegrass (Achnatherum hymenoides), threeawn (Aristida spp.), blue grama (Bouteloua gracilis), sand dropseed (Sporobolus cryptandrus), mesa dropseed (Sporobolus flexuosus), muhly (Muhlenbergia spp.), and James' galleta (Pleuraphis jamesii). Scattered shrubs and dwarf-shrubs are often present, especially sand sage (Artemisia filifolia), saltbush (Atriplex canescens), joint fir (Ephedra trifurca), broom snakeweed (Gutierrezia sarothrae), and winterfat (Krascheninnikovia lanata) (USGS, 2019). These grasslands typically intergrade into salt-desert shrubs or sagebrush, and support grasslands due to unusual soils (sand, gravel, or alluvium) and low rainfall.

Land use of the area around the Arroyo includes urban development and undeveloped rangeland. The land around the Arroyo contains mostly undeveloped land, with numerous roads that were bladed for future development. Many of the roads have become rutted and overgrown with vegetation, making vehicle passage unfeasible. The region beyond the Project Area has experienced rapid growth of residential and commercial development, primarily to the southeast along NM 528 and beyond to the north near US 550.



6.2 Climate

The mean temperature ranges from a winter minimum of 19°F (–7.2°C) to a winter maximum of 49°F (9.4°C) (January) and from a summer minimum of 62°F (16.6°C) to a summer maximum of 92°F (33.3°C) (July) (Griffith et al., 2006). Mean annual precipitation ranges from 8 to 11 inches; more precipitation typically occurs in the summer months than in the winter months.

6.3 Soils

Soils within and above the Arroyo to the north are Grieta-Sheppard loamy fine sands on 2 to 9 percent slopes. This soil is found on ridges, plateaus, mesas, and fan remnants (Grieta) and on terraces, structural benches, dunes, benches, alluvial fans (Sheppard). The parent material is Eolian deposits over fan alluvium derived from sandstone. The soils are loamy fine sand down to 60 inches in depth (NRCS, 2022). The soil type south of the Arroyo is Grieta fine sandy loam, with 1 to 4 percent slopes.

6.4 Land Use

Land use in the general area is undeveloped rangeland, with some areas of residential and institutional development. The Arroyo is used by all-terrain vehicles (ATVs) for recreation.

7. Survey Results

This section documents observations from the biological survey conducted on September 16, 2022. The biological survey area includes the Project Area as shown on Figure 3. Figure 3 notes features observed during the survey. Photographs taken during the survey are provided in Appendix C.

7.1 Fauna Observed

The most abundant animals evidenced during the biological survey were rodents, primarily ground squirrels (*Ictidomys* spp.). Rodent sighting, trails, tracks, and burrows were observed to be common throughout the Project Area. Canid tracks and scat, either dog or coyote (*Canis* spp.), were observed within the channel bottom. Table 1 provides a complete list of species observed during the survey.

The following subsections describe species observed during the field survey.



7.1.1 Invertebrates Observed

Invertebrates, primarily nectar feeding insects such as butterflies, were prevalent throughout the Project Area, as many herbaceous species were blooming. Observed invertebrates included clouded sulphur butterfly (*Colias philodice*), bumblebee (*Bombus* spp.), harvester ants (*Pogonomyremex* spp.) and pinacate beetle (*Eleodes* spp.).

7.1.2 Fish Observed

No perennial waters are located within the Project Area and no fish were observed during the survey.

7.1.3 Amphibians Observed

No amphibians were observed during the survey.

7.1.4 Reptiles Observed

One reptile species, prairie lizard (*Sceloporus graciosus*), was observed during the survey. The prairie lizard was common in the area of the Arroyo.

7.1.5 Birds Observed

Sparrows (chipping [Spizella passerina], house [Passer domesticus], and black-throated [Amphispiza bilineata]) were the most commonly observed birds. The flocks were concentrated on fourwing saltbush (Atriplex canescens), where the seeds of the saltbush provide a major food source for the birds. Other birds documented either by sight or sound in the Project Area included curve-billed thrasher (Toxostoma curvirostre), American crow (Corvus brachyrhynchos), and a Cooper's hawk (Accipiter cooperii). No nests were observed within erosion-created cavities on the Arroyo walls within the Project Area. One vacant nest was observed within a fourwing saltbush during the survey. The nest was observed in the far northeast corner of the Project Area on the side of the Arroyo bank. No other nests were observed during the survey. Nesting habitat for birds, including ground-nesting species such as the Gambel's quail (Callipepla gambelii), was present, and nests may have been overlooked during the survey. No evidence of recent nesting by species such as burrowing owls (Athene cunicularia), which are associated with burrowing mammal colonies, was observed.



7.1.6 Mammals Observed

Evidence of rodents, primarily ground squirrels (*Ictidomys* spp.), was observed either by direct sighting, burrows in Arroyo banks, or tracks. Evidence of domestic dogs (*Canis familiaris*) and/or coyotes (*Canis latrans*) was observed within the Project Area.

7.2 Flora Observed

Vegetation of the Project Area was sparse within the Arroyo due to rain events in the channel and erosion on the banks of the channel. The channel bottom was broad and sandy with little vegetation, but the edges and floodplain of the channel contained scattered shrubs including fourwing saltbush, Schott's dalea (*Psorothamnus schottii*), purple aster (*Dieteria canescens*), prairie sunflower (*Helianthus petiolaris*), Apache plume (*Fallugia paradoxa*), and giant sacaton (*Sporobolus wrightii*).

Dominant species above the Arroyo in the Project Area included large and small shrubs such as sagebrush species (*Artemisia* spp.), and other species such as fourwing saltbush, grasses including blue grama, six-weeks grama (*Bouteloua barbata*), sandhill muhly (*Muhlenbergia pungens*), and dropseed (*Sporobolus* spp). Species of forbs above the channels included Fendler globemallow (*Sphaeralcea fendleri*), common purslane (*Portulaca oleracea*), wooly dalea (*Dalea lanata*), and phlox heliotrope (*Heliotropium convolvulaceum*). Commonly observed cactus species included plains prickly pear (*Opuntia phaeacantha*) and tree cholla (*Cylindropuntia imbricata*). The areas of heavy ground disturbance above the channel contained dense populations of kochia (*Kochia scoparia*) and tumbleweed (*Salsola tragus*).

No plants listed as rare in Sandoval County were observed during the survey. No classified noxious plants were observed in the Project Area.

Table 2 lists representative plant species observed during the site visit.

7.3 Observed Waterways and Soils

The Arroyo is a direct tributary to the Rio Grande, approximately 3.5 miles downstream of the end of the project. The channel was observed to be an ephemeral channel, holding water only during and immediately after rain events. No other surface water was observed within the channel during the site survey (Appendix C, Photographs 13 and 14).



USFWS Wetland Mapper was accessed prior to field activities (USFWS, 2022b). The map showed Venada Arroyo coded as "R4SB4J" or "riverine, intermittent, streambed seasonally flooded." The USFWS wetland code description for R4SB4J is a riverine system where water is usually, but not always, flowing. The subsystem for the Arroyo is classified as intermittent, with the substrate usually exposed and surface water is present for variable periods without detectable seasonal periodicity. Weeks, months, or even years may intervene between periods of inundation. The dominant plant communities may change as soil moisture conditions change. When the water is not flowing, it may remain in isolated pools or surface water, or may be absent (FGDC, 2013). The wetlands classification is shown on Figure 3. This regime system does not typically qualify as a wetland, as no hydric soils or hydrophytes are present.

Although no formal wetland delineation was conducted, the areas delineated by the USFWS Wetlands Mapper were further evaluated in the field for signs of wetlands, such as wetland vegetation. Ground conditions observed may not always agree with the USFWS Wetlands Mapper. The channel structure and vegetation in the Arroyo throughout the Project Area appeared to only hold water during or after a storm event; therefore, the Arroyo is ephemeral rather than the intermittent classification shown on USFWS Wetlands Mapper. The channel was consistent with the riverine description, in that it is not always flowing. There was no standing water or ponded areas within the Project Area. Vegetation was sparse along the length of the Arroyo within the Project Area, and no wetland obligate vegetation or wetlands were observed in the Project Area. Soils within the Project Area were observed to be sandy or sandy loam along the length of the channel.

Per the regulatory guidance letter issued by USACE for identifying the ordinary high water mark (OHWM), the USACE determines, on a case-by-case basis, the extent of geographic jurisdiction for the purpose of administering its regulatory program. For the purposes of CWA Section 404, the lateral limits of jurisdiction over non-tidal water bodies extend to the OHWM in the absence of adjacent wetlands. USACE regulations define the term "ordinary high water mark" for purposes of the CWA lateral jurisdiction at 33 CFR 328.3(e), which states:

The term ordinary high water mark means that line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas.



The presence of an OHWM was observed during the survey along the Arroyo. Evidence including a developed bank channel, deposition, and change in soil structure and vegetation was noted along the channel. The Arroyo and tributaries are estimated to have an OHWM that ranges on average from 12 to 129 feet in width in the portion of the Project Area from the beginning of project east of Westphalia Boulevard to the end of project at the intersection of the Arroyo and Progress Boulevard. Depth of the OHWM is estimated to range from 2 to 24 inches. The area of the OHWM is approximately 11.56 acres. Figure 3 and Photographs 17 through 20 (Appendix C) show the estimated OHWM.

7.4 Observed Surrounding Landscape and Land Use

Land use in the vicinity of the project is undeveloped rangeland and scattered development that includes a school and an animal rescue shelter beyond to the southwest and west, Sandoval County Landfill beyond to the south, and residential development beyond to the north, south, and east. During the survey, it was observed that the area within the Arroyo is heavily used by ATVs for recreation. There is also evidence of ATV use on the arroyo banks and above the Arroyo. There are numerous unpaved roads in the area, bladed in anticipation of future development. Most of the roads are in deteriorating condition, and are not passable by most vehicles.

7.5 Observed Human or Natural Disturbance

The area within the Arroyo is vacant and undeveloped. It appears to also be used for recreation, as there were ATV tracks in the Arroyo bottom. The area above the Arroyo is vacant, undeveloped land with the exception of the following:

- There is an approximately 7-acre area south of the Arroyo in the central portion of the Project Area that appears to have been grubbed and graded in the past.
- A crescent-shaped earthen berm structure is located across a smaller arroyo located south of Progress Boulevard in the western portion of the Project Area. It appears to have been originally constructed as a livestock pond.
- A large transmission line runs approximately parallel to Progress Boulevard south of the Project Area.
- Several roads, including Progress Boulevard, cross the Arroyo. All are unpaved and/or have become eroded and are not passable by most vehicles.



8. Listed Species and Critical Habitat Analysis

8.1 Species Listings

This section evaluates the potential for listed species to occur in the Project Area or Action Area and potentially be affected by the Proposed Action. The IPaC planning tool from the USFWS (New Mexico) was used to obtain information on biological resources of the area (Appendix A). The NMDGF list of state-listed species for Sandoval County as accessed from the Biota Information System of New Mexico (BISON-M) website was also reviewed as part of the evaluation (Appendix B). In addition, the New Mexico state endangered plant list (NMEMNR, 2022) and the USDA noxious weed list (NRCS 2022) were obtained online and reviewed. The following subsections summarize the results of these queries.

8.1.1 U.S. Fish and Wildlife Service

The IPaC report obtained for this project listed a total of 8 federal threatened, endangered, or proposed species, with none of the listed species having designated critical habitat within the Project Area.

8.1.2 New Mexico Department of Game and Fish

The list of state-listed species in Sandoval County was obtained from the NMDGF website (NMDGF, 2019). A total of 17 state endangered or threatened species have the potential to occur in Sandoval County, New Mexico (Appendix B).

8.1.3 New Mexico Endangered Plants

The New Mexico state endangered plant list was reviewed for Sandoval County (NMEMNR, 2019). A total of 4 state endangered plants are listed for the county. In addition, the list of rare plant species in Sandoval County was obtained from the NMRPTC website (NMRPTC, 2022). A total of 21 (including state endangered) rare plant species have the potential to occur in the county. None of the state endangered or rare plant species were determined to have the potential to occur in the Project Area.



8.2 Critical Habitat Analysis

The Project Area was determined to not be located within any designated or proposed critical habitat (USFWS, 2022c). The nearest critical habitat is for the Rio Grande silvery minnow, located 2.5 miles west of the Proposed Action in the Rio Grande.

8.3 Listed Species Eliminated from Further Consideration

Table 3 summarizes the findings for federally listed species that have been removed from further evaluation because suitable habitat is not present within the Project Area and Action Area. Table 4 summarizes the findings for state-listed species that have been removed from further evaluation because suitable habitat is not present within the Project Area.

8.4 Listed Species Evaluated Further

No listed species have been determined to have the potential to occur in the Project Area and/or the Action Area.

9. Potential Impacts to Non-Listed Species

The impacts (permanent and temporary) of the proposed project to non-listed species would include temporary noise increase, vegetation removal, and ground disturbance during construction. Construction includes the Arroyo from east of Westphalia downstream to the intersection of the Arroyo and Progress Boulevard. Construction will also include an area above the Arroyo that will be excavated for a diversion pond construction. Noise disturbance during construction would affect wildlife in the Project Area and Action Area. If nests were present in the Project Area, they may be disturbed or removed as part of construction. Trees, shrubs and cactus observed within the Project Area may be removed and birds that use them for foraging or nesting would potentially be impacted by construction. There is a potential for groundnesting birds to be impacted by construction.

Construction is scheduled to be outside of the nesting season for most migratory birds (March 15 through September 15). If construction activities commence within the nesting season, a pre-construction nesting bird survey should be completed to investigate the channel and the area above the channel that may harbor occupied bird nests. If occupied nests are found, they must be avoided until the young have fledged in order to comply with the



requirements of the MBTA. Empty nests do not need to be avoided, as stated by Section 1 of the Interim Empty Nest Policy (USFWS, Region 2).

No noxious weeds were observed during the survey. The Project Area will be revegetated as necessary with native species, including native milkweed (*Asclepias* spp.); therefore, no noxious weeds would likely be introduced to the areas of disturbance.

Specific equipment to be used, the location of the construction staging area, and the exact area of disturbance are not known for this evaluation, and will be documented at a later stage of the project design. However, based on observations during the survey, there are existing dirt roads and areas adjacent to the channel that are already disturbed and void of vegetation; these roads would likely be used for staging and access to the construction site.

Passage of wildlife along the project corridor would not be blocked due to project construction. Following completion of the project, parts of the channel construction may limit nesting for bird species that use arroyo wall cavities for nests. However, there are other natural arroyo walls in the Arroyo upstream of the Project Area that could be used and would continue to be used by wildlife species. Impacts are therefore anticipated to be negligible.

The proposed diversion pond would be designed so that only high water flows would be diverted outside of the Arroyo. Low water flows, typical for most of the storm events affecting the Arroyo, would be allowed to continue flowing downstream within the channel. This design would therefore maintain the pre-construction stormwater runoff flow, and any impacts from the diversion pond to the natural flow of the Arroyo would be negligible.

10. Recommendations for Avoidance, Minimization, and Mitigation

DBS&A recommends that the following measures be taken to minimize project impacts:

A pre-construction nesting bird survey of the Project Area should be completed if
construction commences within the typical nesting season of March 15 to September 15. If
occupied nests are found, they must be avoided until the young have fledged in order to
comply with the requirements of the MBTA. Empty nests do not need to be avoided, as
stated by Section 1 of the Interim Empty Nest Policy (USFWS, Region 2). If occupied nests



are found, they must be avoided until the young have fledged in order to comply with the requirements of the MBTA.

11. Conclusion

SSCAFCA is proposing a high flow diversion pond and channel stabilization of the Upper Venada Arroyo. Improvements would include the construction of a pond, concrete channel, and grade control improvements.

A biological survey was conducted on September 16, 2022 to observe field conditions and to evaluate potential impacts.

There is a potential for migratory bird species to establish nests within the Project Area. Construction is scheduled to be outside of the migratory bird breeding season (March 15 through September 15). If construction were to commence within the nesting season, a preconstruction nesting bird survey should be completed to locate any active nest that would need to be avoided.

There is no critical habitat within the Project Area, as noted in the USFWS IPaC report generated for this project (Appendix A). This evaluation finds that the project will have no effect on critical habitat.

No federally listed species were determined to have a potential to occur within the Action Area or Project Area. This evaluation finds that the project will have no effect on federally listed species. Informal Section 7 consultation with the USFWS is not necessary. No written concurrence from the USFWS is needed.

No state-listed species were determined to have the potential to occur within the Action Area or Project Area. No impact to state-listed species is anticipated as a result of the project.

The work will temporarily disturb vegetation within the Project Area, which will cause a temporary disturbance to wildlife habitat.

Project impacts to non-listed species would include temporary noise impacts, vegetation removal, elimination of burrows and potential nest sites, and ground disturbance. However, if construction is timed outside of the nesting season, project impacts would be negligible.



September 30, 2022

12. Report Preparer and Certification

DBS&A believes that the proposed action would not violate any of the provisions of the ESA of 1973, as amended. Results and conclusions contained in this report are based on actual field examination and represent our best professional judgment, based on information provided by the project proponent, applicable agencies, and other sources.

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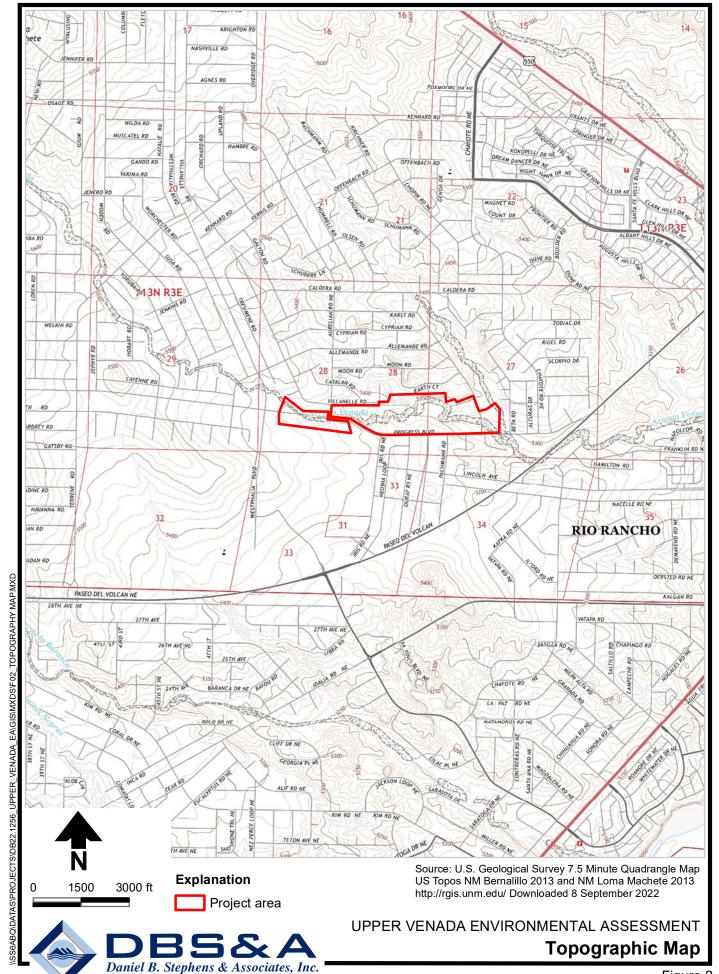
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Figures



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Area Map



NM16.0001

9/8/2022

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9/27/2022

DB22.1256

Tables





Table 1. Fauna Observed Within the Biological Survey Area

Fauna Type	Common Name (Scientific Name)	Indicator	Abundance
Invertebrates	Clouded sulphur butterfly (Colias philodice)	Sighting	Common
	American lady butterfly (Vanessa virginiensis)	Sighting	Few
	Dragonfly (Anisoptera sp)	Sighting	Few
	Pinacate beetle (<i>Eleodes</i> spp.)	Sighting	Common
	Red velvet ant wasp (Mutillidae spp.)	Sighting	Few
	Harvester ant (Pogonomyremex spp.)	Sighting	Few
	Tarantula hawks (<i>Pepsis</i> sp.)	Sighting	Few
	Bumblebee (<i>Bombus</i> spp.)	Sighting	Common
Fish	None observed		
Amphibians	None observed		
Reptiles	Prairie lizard (Sceloporus graciosus)	Sighting	Common
Birds	Black-throated sparrow (Amphispiza bilineata)	Sighting	Common
	Chipping sparrow (Spizella passerina)	Sighting	Common
	House sparrow (Passer domesticus)	Sighting/sound	Common
	Curve-billed thrasher (Toxostoma curvirostre)	Sound	Few
	American crow (Corvus brachyrhynchos)	Sound/sight	Few
	Turkey vulture (Cathartes aura)	Sight	Few
	Cooper's hawk (Accipiter cooperii)	Sight	Few
	Cliff swallow (Petrochelidon pyrrhonota)	Sight (above channel, no nests observed)	Few
	Mourning dove (Zenaida macroura)	Sighting	Common
Mammals	Desert cottontail rabbit (Sylvilagus audubonii)	Sighting	Few
	Domestic dog or coyote (Canis spp)	Tracks	Common
	Ground squirrel (<i>Ictidomys</i> spp)	Burrows, tracks, sighting	Common



Table 2. Flora Observed Within the Biological Survey Area Page 1 of 2

Common Name (Scientific Name)	Abundance	Location Notes	New Mexico Noxious Weed Class
Silver sagebrush (Artemisia cana)	Abundant	Above channel bottom on sides and outside of channel	_
Sand sagebrush (Artemisia filifolia)	Abundant	Above channel bottom on sides and outside of channel	_
Fourwing saltbush (Atriplex canescens)	Abundant	Above channel bottom on sides and outside of channel	_
Spiny shadscale (Atriplex confertifolia)	Common	Above channel	_
Apache plume (<i>Fallugia paradoxa</i>)	Common	Along the sides of channel, or on islands within the channels	_
One-seed juniper (Juniperus monosperma)	Few	Above channel	_
Broom snakeweed (Gutierrezia sarothrae)	Abundant	Above channel bottom on sides and outside of channel	_
Tumbleweed (Salsola tragus)	Common	Along roadways, disturbed areas	_
Kochia (Kochia scoparia)	Abundant	Especially prevalent in disturbed areas	_
Narrowleaf yucca (Yucca glauca)	Few	Above channel	_
Schott's dalea (<i>Psorothamnus schottii</i>)	Common	Edge of channel	_
Silver nightshade (Solanum elaeagnifolium)	Few	Edge of channel	_
Clammyweed (<i>Polanisia</i> dodecandra ssp. trachysperma)	Common	Edge and bottom of channel	_
Prairie evening primrose (Oenothera albicaulis)	Few	Edge and bottom of channel	_
Bladderpod (Lesquerella sp.)	Few	Edge and bottom of channel	_
Wooly dalea (Dalea lanata)	Few	Scattered in area above arroyo	_
Phlox heliotrope (Heliotropium convolvulaceum)	Few	Bottom of channel and in shallow drainages above the arroyo	_
Purple aster (Dieteria canescens)	Common	Edges and side of channel	_
Threadleaf groundsel (Senecio flaccidus)	Common	Edges of channel	_
Bush morning glory (<i>Ipomoea leptophylla</i>)	Few	Edge of channel	_

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Table 2. Flora Observed Within the Biological Survey Area Page 2 of 2

Common Name (Scientific Name)	Abundance	Location Notes	New Mexico Noxious Weed Class
Common purslane (Portulaca oleracea)	Few	Above channel in areas that collect water	_
Palofoxia (<i>Palafoxia sphacelata</i>)	Few	Scattered above channel or on edges of channel	_
Mariola (<i>Parthenium incanum</i>)	Few	Bottom of channel	_
Fendler globemallow (<i>Sphaeralcea fendleri</i>)	Few	Edges of channel and shallow drainages above the arroyo	_
Cota (Thelesperma megapotamicum)	Few	Edges of channel	_
Devil's claw (<i>Proboscidea parviflora</i>)	Few	Edge of channel	_
Buffalo gourd (Cucurbita foetidissima)	Few	Above the arroyo	_
Princes plume (Stanleya pinnata)	Few	Edges of channel	_
Prairie sunflower (<i>Helianthus petiolaris</i>)	Few	In floodplain of channel	_
Plains prickly pear (<i>Opuntia phaeacantha</i>)	Common	Above channel	_
Tree cholla (Cylindropuntia imbricata)	Common	Above channel	_
Club cholla (Grusonia clavata)	Few	Above channel	_
Blue grama (Bouteloua gracilis)	Common	Above channel	_
Ricegrass (Achnatherum hymenoides)	Few	Edge of channel and shallow drainages above the arroyo	_
Giant sacaton (Sporobolus wrightii)	Common	Edge of channel	_
Red threeawn (<i>Aristida purpurea</i> var. <i>longiseta</i>)	Few	Above channel	_
Sandhill muhly (<i>Muhlenbergia pungens</i>)	Common	Above channel	_
Six-weeks grama (<i>Bouteloua barbata</i>)	Abundant	Above channel	_



Table 3. Federally Listed Species Included in the Analysis and Likelihood of Occurrence in the Project Area/Action Area
Page 1 of 3

Species Category	Species	Status	Habitat Associations	Potential for Presence in Project Area and/or Action Area
Birds	Southwestern willow flycatcher (Empidonax trailii extimus)	FE	Habitat for the southwestern willow flycatcher consists of dense riparian vegetation along rivers, streams, or other wetlands, where its diet consists primarily of insects. Suitable vegetation includes dense growth of willows (<i>Salix</i> spp.), arrow weed (<i>Pluchea sericea</i>), alder (<i>Alnus</i> spp.), and saltcedar (<i>Tamarix ramosissima</i>).	Unlikely to occur. The Project Area does not contain riparian vegetation or surface water.
	Yellow-billed cuckoo (Coccyzus americanus)	FT	The yellow-billed cuckoo is found in riparian habitat with multi-level canopy forest and dense understory.	Unlikely to occur. No riparian forest is present in the Project Area and Action Area.
	Mexican spotted owl (Strix occidentalis)	FT	Primarily within shaded, mesic, and cool canyons with steep sides that have mixed conifer, pine-oak, and riparian forest types. Forests used for roosting or nesting often contain moderate to high canopy closure, a wide range of tree sizes suggestive of uneven-age stands, large overstory trees of various species, and high plant species richness with adequate levels of residual plant cover to maintain fruits, seeds, and regeneration to provide for the needs of prey species for the owl.	Unlikely to occur. The Project Area does not harbor any shaded, mesic, and cool steepsided canyon of forest patches with moderate to dense canopy cover.
Mammals	New Mexico meadow jumping mouse (Zapus hudsonius luteus)	FE	Habitat specialist using persistent emergent herbaceous wetlands and scrub-shrub wetlands on wet soil along perennial streams. Also uses patches of herbaceous vegetation dominated by sedges along water edges within willow and alder dominated habitats.	Unlikely to occur. The Project Area and Action Area do not contain emergent herbaceous wetlands, scrub-shrub wetlands, or willow and alder habitat containing sedges.
Reptiles	None			seages.

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Table 3. Federally Listed Species Included in the Analysis and Likelihood of Occurrence in the Project Area/Action Area Page 2 of 3

Species Category	Species	Status	Habitat Associations	Potential for Presence in Project Area and/or Action Area
Amphibians	Jemez Mountains salamander (Plethodon neomexicanus)	FE	The species is endemic to the Jemez Mountains, where it occurs in mixed conifer and spruce-fir forests above 7,200 feet in specific microhabitat conditions. Preferred microhabitat is generally characterized by relatively high humidity and soils with a specific rock structure.	Unlikely to occur. The Project Area and Action Area are not within the Jemez Mountains.
Fish	Rio Grande silvery minnow (Hybognathus amarus)	FE	The Rio Grande silvery minnow is found in the Middle Rio Grande.	Unlikely to occur. Upper Venada Arroyo is a tributary of the Rio Grande, but the Project Area is not near the confluence with the Rio Grande. It is an ephemeral drainage, and no aquatic habitat was observed during the survey.
	Rio Grande cutthroat trout Oncorhynchus clarkii virginalis	FC	The Rio Grande cutthroat trout is a subspecies of cutthroat trout, endemic to the Rio Grande, Pecos, and possibly the Canadian River Basins in New Mexico and Colorado.	Unlikely to occur. Upper Venada Arroyo is a tributary of the Rio Grande, but the Project Area is not near the confluence with the Rio Grande. It is an ephemeral drainage, and no aquatic habitat was observed during the survey.



Table 3. Federally Listed Species Included in the Analysis and Likelihood of Occurrence in the Project Area/Action Area Page 3 of 3

Species Category	Species	Status	Habitat Associations	Potential for Presence in Project Area and/or Action Area
Insects	Monarch (<i>Danaus</i> plexippus)	FC	Adult monarch butterflies during breeding and migration require a diversity of blooming nectar resources, which they feed on throughout their migration routes and breeding grounds (spring through fall). Monarchs also need milkweed (for both oviposition and larval feeding) embedded within this diverse nectaring habitat. The correct phenology, or timing, in the life cycle of monarchs and blooming of nectar plants and milkweed is important for monarch survival. There are two migrating populations, eastern and western. New Mexico, contains spring breeding areas primarily in the eastern third of the state (USFWS 2020).	The potential for the monarch butterfly to occur within the Project Area and/or Action Area is low because the area is not within the known breeding or migrating corridors of the butterfly. In addition the potential for milkweed plant species to be present is low. No milkweed was observed during the site survey.
Plants	None			

Federal designations: Federal Endangered Species Act, USFWS

FC = Federal candidate

FE = Federal endangered

FT = Federal threatened



Table 4. State Listed and Rare Plant Species Identified for Project Area and/or Action Area Page 1 of 6

Species Category	Species	Status	Habitat Associations	Potential for Presence in Project Area and/or Action Area
Plants ^{a,b}	Wood lily (Lilium philadelphicum)	SE	The wood lily occurs in a wide variety of habitats from the Appalachian Mountains to the Rocky Mountains, in tallgrass prairies, open woods, thickets, and high mountain meadows. In New Mexico, the species is found in wetter habitat typical of the Rocky Mountains.	Unlikely to occur. The Project Area and Action Area do not have tallgrass prairies, open woods, thickets, and high mountain meadows, or any wetter habitat typical of the Rocky Mountains.
	Parish's alkali grass (Puccinellia parishii)	SE	The Parish's alkali grass requires alkaline springs, seeps, and seasonally wet areas that occur at the heads of drainages or on gentle slopes at 2,600 to 7,200 feet (800 to 2,200 meters) range-wide.	Unlikely to occur. The Project Area and Action Area do not have habitat containing alkaline springs or seeps or wet headwater areas.
	Brack's cactus (Sclerocactus cloveriae subsp. brackii)	SE	Sandy clay strata of the Nacimiento Formation in sparse shadscale scrub at 5,000 to 6,400 feet (1,500 to 1,950 meters).	Unlikely to occur. The Project Area and Action Area do not contain strata from the Nacimiento Formation.
	Gypsum Townsend's aster (Townsendia gypsophila)	SE	Weathered gypsum outcrops of the Jurassic-age Todilto and overlying Morrison formations. The largest populations occur on highly gypsiferous soils rather than pure gypsum. Smaller populations grow on Todilto gypsite, a highly pure, crustose form of gypsum.	Unlikely to occur. The Project Area and Action Area do not contain gypsum outcrops.
Invertebrates	None			
Fish	Rio Grande silvery minnow (<i>Hybognathus</i> <i>amarus</i>)	FE/SE	Rio Grande, beyond project limits and Action Area. The confluence with the Rio Grande is approximately 3.5 miles from the downstream end of project.	Unlikely to occur. The Venada Arroyo is a tributary of the Rio Grande, but the Project Area is not near the confluence with the Rio Grande, and it is an ephemeral drainage.



Table 4. State Listed and Rare Plant Species Identified for Project Area and/or Action Area Page 2 of 6

Species Category	Species	Status	Habitat Associations	Potential for Presence in Project Area and/or Action Area
Amphibians	Jemez Mountains salamander (<i>Plethodon</i> neomexicanus)	FE/SE	The species is endemic to the Jemez Mountains, where it occurs in mixed conifer and spruce-fir forests above 7,200 feet in specific microhabitat conditions. Preferred microhabitat is generally characterized by relatively high humidity and soils with a specific rock structure.	Unlikely to occur. The Project Area and Action Area are not within the Jemez Mountains.
Mollusks	Wrinkled marshsnail (Stagnicola caperata)	SE	The species is known to occur only in the Cerro la Jara area of the Jemez Mountains, which is the key habitat area in the state.	Unlikely to occur. The Project Area and Action Area are not within the Jemez Mountains.
Mollusks (cont.)	Paper pondshell (Utterbackia imbecillis)	SE	The paper pondshell is strictly an aquatic species that inhabits mud, sand, and gravel substrates of lakes and rivers. The animals imbed themselves in softer substrates, with only the tip of the shell and the siphonal openings visible. Reproduction in freshwater mussels occurs with the release of larvae from the adult that disperse over the available environment. In New Mexico, it is known from the lower Canadian River at Conchas Reservoir (San Miguel County), the key habitat area of the state for the species. A population, likely introduced, was documented in the Middle Rio Grande near Rio Rancho, Sandoval County.	Unlikely to occur. The Project Area and Action Area have no consistently wetted softer substrates, mud, and gravel.
Reptiles	None		·	



Table 4. State Listed and Rare Plant Species Identified for Project Area and/or Action Area Page 3 of 6

Species Category	Species	Status	Habitat Associations	Potential for Presence in Project Area and/or Action Area
Birds	Brown pelican (Pelecanus occidentalis)	SE	The brown pelican is found along seacoasts, lakes, and rivers. This species is a vagrant to New Mexico, having been verified at Bloomfield (San Juan Co.), Snow Lake (Catron Co.), and Bitter Lake National Wildlife Refuge; there are also records of the species near Cliff (Grant Co.), but is mostly found at large lakes or along major rivers, including in the San Juan, Gila, Rio Grande, and Pecos drainages.	Unlikely to occur. The Project Area does not contain surface water.
	Common black hawk (Buteogallus anthracinus anthracinus)	ST	The black hawk is found within wooded habitat along permanent streams. The species summers primarily at lower elevations in the Gila, San Francisco, and Mimbres drainages, which are key habitat areas.	Unlikely to occur. The Project Area does not contain surface water.
	Bald eagle (Haliaeetus leucocephalus)	ST	The bald eagle is usually found along seacoasts, lakes, and rivers. Nesting sites are usually isolated high in trees, on cliffs, or on pinnacles. The species is also associated with prairie dog colonies in New Mexico.	Unlikely to occur. The Project Area does not contain surface water or prairie dog colonies.
	Gray vireo (Vireo vicinior)	ST	In New Mexico, the gray vireo prefers open pinyon-juniper woodland or juniper savannah with a shrub component. In northwest New Mexico, gray vireos are found in broadbottomed, flat or gently sloped canyons, in areas with rock outcroppings, or near ridgetops. In these areas, bitterbrush (<i>Purshia tridentate</i>), mountain mahogany (<i>Cercocarpus breviflorus</i>), Utah serviceberry (<i>Amelanchier utahensis</i>) and big sagebrush (<i>Artemisia tridentata</i>) are often present. Gray vireos are often found in areas of moderate shrub cover (35-45%) with large amounts of bare ground between herbaceous plants.	Unlikely to occur except as a rare transient. The Project Area is not within well-developed woodland or gently sloped canyons, or areas with rock outcroppings near ridgetops. Habitat of the project area has scattered junipers but does not contain well-developed pinyon-juniper woodlands or juniper savannah.

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Table 4. State Listed and Rare Plant Species Identified for Project Area and/or Action Area Page 4 of 6

Species Category	Species	Status	Habitat Associations	Potential for Presence in Project Area and/or Action Area
Neotrop (Phalacr brasilian Broad-b hummin	Peregrine falcon (Falco pergrinus)	ST	Habitat of the peregrine falcon is primarily located in open wetlands near cliffs. In New Mexico, the breeding territories center on cliffs that are in wooded/forested habitats with large "gulfs" of air nearby in which these predators can forage.	Unlikely to occur. The Project Area does not contain wetlands near cliffs.
	Neotropic cormorant (<i>Phalacrocorax</i> <i>brasilianus</i>)	ST	In New Mexico, neotropic cormorants are generally found on larger bodies of water such as reservoirs, where they prey on fish.	Unlikely to occur. The Project Area does not contain surface water.
	Broad-billed hummingbird (Cynanthus latirostris)	ST	In New Mexico, the broad-billed hummingbird is local and uncommon. It is a regular summer resident only in the southwest corner of the state within Guadalupe Canyon; otherwise, vagrant occurrences have been documented at a select few locations around the state including Bandelier National Monument (Sandoval Co.) and as an accidental transient in residential/developed areas. It prefers riparian woodlands at low to moderate elevations.	Unlikely to occur as anything more than a vagrant occurrence. The nearest known location to the project area and Action Area is Bandelier National Monument, far outside of the Project Area.
	Costa's hummingbird (Calypte costae)	ST	Costa's hummingbird is a desert scrub species of the southwestern United States and northern Mexico. In New Mexico it is an uncommon and sporadic breeder in the southwest and south-central mountains. It occurs most regularly in Guadalupe Canyon and in side canyons along the lower Gila River from Cliff south.	Unlikely to occur. The Project Area is far outside of the species' regular distribution in New Mexico.



Table 4. State Listed and Rare Plant Species Identified for Project Area and/or Action Area Page 5 of 6

Species Category	Species	Status	Habitat Associations	Potential for Presence in Project Area and/or Action Area
Birds (cont.)	Birds (cont.) Southwestern willow flycatcher (Empidonax trailii extimus)		Habitat for the southwestern willow flycatcher consists of dense riparian habitats along rivers, streams, or other wetlands where its diet consists primarily of insects. Suitable vegetation includes dense growth of willows (<i>Salix</i> spp.), arrow weed (<i>Pluchea sericea</i>), alder (<i>Alnus</i> spp.) saltcedar (<i>Tamarix ramosissima</i>), and other riparian vegetation.	Unlikely to occur. The Project Area does not contain riparian habitat or surface water.
	Baird's sparrow (Ammodramus bairdii)	ST	Baird's sparrow breeds in a fairly small geographic area of south-central Canada, Montana, and North and South Dakota. It winters on grasslands of the northern Mexican plateau, primarily in Chihuahua and Durango but including portions of bordering states. The winter range extends into small portions of southeast Arizona, southern New Mexico, and southwest Texas. In New Mexico, Baird's Sparrow has been found on Otero Mesa and in the Animas Valley, and may occur in other areas of suitable winter habitat, particularly in the southeast portion of state (NMPF, 2007).	Unlikely to occur. The Project Area is west and north of the species' known winter range in New Mexico and far outside the breeding distribution.
Mammals	New Mexico meadow jumping mouse (Zapus hudsonius luteus)	FE/SE	Habitat specialist using persistent emergent herbaceous wetlands and scrub-shrub wetlands on wet soil along perennial streams. Also uses patches of herbaceous vegetation dominated by sedges along water edges within willow and alder dominated habitats.	Unlikely to occur. The Project Area and Action Area do not contain emergent herbaceous wetlands, scrub-shrub wetlands, or willow and alder habitat containing sedges.
	Pacific marten (Martes caurina)	ST	The Pacific marten occupies primarily mature coniferous forests.	Unlikely to occur. The Project Area and Action Area do not contain mature coniferous forests.



Table 4. State Listed and Rare Plant Species Identified for Project Area and/or Action Area Page 6 of 6

Species Category	Species	Status	Habitat Associations	Potential for Presence in Project Area and/or Action Area
Mammals (cont.)	Spotted bat (Euderma maculatum)	ST	Known in New Mexico from the Rio Grande, Rio Chama, and Animas River Valleys, the Mogollon Plateau, and the Jemez, San Mateo, and Sacramento Mountains. However, it is undoubtedly more widespread in the state than records indicate. Occupies a wide range of vegetation types, moving downslope after the reproductive season. Preferred habitat consists of meadows in subalpine coniferous forests. In the Mogollon, San Mateo, and Jemez Mountains, spotted bats were netted over streams or water holes in ponderosa or mixed coniferous forest. Bats are cliff dwellers whose diurnal roosts are the cracks and crevices of canyons and cliffs. Also recorded in pinyon-juniper woodlands and open semidesert shrublands. Rocky cliffs are necessary to provide suitable cracks and crevices for roosting, as is access to water.	Unlikely to occur. There are no coniferous forests, pinyon-juniper woodlands, streams or water holes in the Project Area or Action Area.

ST = State threatened

SE = State endangered

FT = Federal threatened

FE = Federal endangered

Appendix A
IPaC Report





United States Department of the Interior



FISH AND WILDLIFE SERVICE

New Mexico Ecological Services Field Office 2105 Osuna Road Ne Albuquerque, NM 87113-1001 Phone: (505) 346-2525 Fax: (505) 346-2542

In Reply Refer To: September 12, 2022

Project Code: 2022-0084357

Project Name: Upper Venada Arroyo Improvements

Subject: List of threatened and endangered species that may occur in your proposed project

location or may be affected by your proposed project

To Whom It May Concern:

Thank you for your recent request for information on federally listed species and important wildlife habitats that may occur in your project area. The U.S. Fish and Wildlife Service (Service) has responsibility for certain species of New Mexico wildlife under the Endangered Species Act (ESA) of 1973 as amended (16 USC 1531 et seq.), the Migratory Bird Treaty Act as amended (16 USC 701-715), and the Bald and Golden Eagle Protection Act as amended (16 USC 668-668(c)). We are providing the following guidance to assist you in determining which federally imperiled species may or may not occur within your project area, and to recommend some conservation measures that can be included in your project design.

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the ESA of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the ESA, the accuracy of this species list should be verified after 90 days. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the ESA is to provide a means whereby threatened and endangered species and

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the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the ESA and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (NEPA; 42 USC 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF.

Candidate Species and Other Sensitive Species

A list of candidate and other sensitive species in your area is also attached. Candidate species and other sensitive species are species that have no legal protection under the ESA, although we recommend that candidate and other sensitive species be included in your surveys and considered for planning purposes. The Service monitors the status of these species. If significant declines occur, these species could potentially be listed. Therefore, actions that may contribute to their decline should be avoided.

Lists of sensitive species including State-listed endangered and threatened species are compiled by New Mexico State agencies. These lists, along with species information, can be found at the following websites.

Biota Information System of New Mexico (BISON-M): www.bison-m.org

New Mexico State Forestry. The New Mexico Endangered Plant Program: https://www.emnrd.nm.gov/sfd/rare-plants/

New Mexico Rare Plant Technical Council, New Mexico Rare Plants: nmrareplants.unm.edu

Natural Heritage New Mexico, online species database: nhnm.unm.edu

WETLANDS AND FLOODPLAINS

Under Executive Orders 11988 and 11990, Federal agencies are required to minimize the destruction, loss, or degradation of wetlands and floodplains, and preserve and enhance their natural and beneficial values. These habitats should be conserved through avoidance, or mitigated to ensure that there would be no net loss of wetlands function and value.

We encourage you to use the National Wetland Inventory (NWI) maps in conjunction with ground-truthing to identify wetlands occurring in your project area. The Service's NWI program website, www.fws.gov/wetlands/Data/Mapper.html, integrates digital map data with other resource information. We also recommend you contact the U.S. Army Corps of Engineers for permitting requirements under section 404 of the Clean Water Act if your proposed action could impact floodplains or wetlands.

MIGRATORY BIRDS

In addition to responsibilities to protect threatened and endangered species under the ESA, there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the Service (50 CFR 10.12 and 16 USC 668(a)). For more information regarding these Acts see https://www.fenws.gov/birds/policies-and-regulations.php.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a Federal nexus) or a Bird/Eagle Conservation Plan (when there is no Federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php. We also recommend review of the Birds of Conservation Concern list (https://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php) to fully evaluate the effects to the birds at your site. This list identifies migratory and non-migratory bird species (beyond those already designated as federally threatened or endangered) that represent top conservation priorities for the Service, and are potentially threatened by disturbance, habitat impacts, or other project development activities.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 thereby provides additional protection for both migratory birds and migratory bird habitat. Please visit https://www.fws.gov/migratorybirds/pdf/management/executiveordertoprotectmigratorybirds.pdf for information

regarding the implementation of Executive Order 13186.

We suggest you contact the New Mexico Department of Game and Fish, and the New Mexico Energy, Minerals, and Natural Resources Department, Forestry Division for information regarding State protected and at-risk species fish, wildlife, and plants.

For further consultation with the Service we recommend submitting inquiries or assessments electronically to our incoming email box at nmesfo@fws.gov, where it will be more promptly routed to the appropriate biologist for review.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- Migratory Birds

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New Mexico Ecological Services Field Office 2105 Osuna Road Ne Albuquerque, NM 87113-1001 (505) 346-2525

Project Summary

Project Code: 2022-0084357

Project Name: Upper Venada Arroyo Improvements

Project Type: Drainage Project

Project Description: The project is proposed to be approximately 132 acres and entails the use

of the main branch of Upper Venada and flow diversion/lateral weir structure to divert the maximum flows possible into an off-channel pond and allow the low flows to by-pass the lateral weir. Additionally, the proposed project will provide storm water quality improvement by means of the principal spillway structure design. There is also the possibility of

downstream channel stabilization and bank armoring.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@35.322216,-106.62349143648967,14z



Counties: Sandoval County, New Mexico

Endangered Species Act Species

There is a total of 8 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME

New Mexico Meadow Jumping Mouse Zapus hudsonius luteus

Endangered

There is **final** critical habitat for this species. The location of the critical habitat is not available.

Species profile: https://ecos.fws.gov/ecp/species/7965

Birds

NAME

Mexican Spotted Owl Strix occidentalis lucida

Threatened

There is **final** critical habitat for this species. The location of the critical habitat is not available.

Species profile: https://ecos.fws.gov/ecp/species/8196

Southwestern Willow Flycatcher Empidonax traillii extimus

Endangered

There is **final** critical habitat for this species. The location of the critical habitat is not available.

Species profile: https://ecos.fws.gov/ecp/species/6749

Yellow-billed Cuckoo *Coccyzus americanus*

Threatened

Population: Western U.S. DPS

There is **final** critical habitat for this species. The location of the critical habitat is not available.

Species profile: https://ecos.fws.gov/ecp/species/3911

Amphibians

NAME STATUS

Jemez Mountains Salamander Plethodon neomexicanus

Endangered

There is **final** critical habitat for this species. The location of the critical habitat is not available.

Species profile: https://ecos.fws.gov/ecp/species/4095

Fishes

NAME STATUS

Rio Grande Cutthroat Trout Oncorhynchus clarkii virginalis

Candidate

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/920

Rio Grande Silvery Minnow *Hybognathus amarus*

Endangered

Population: Wherever found, except where listed as an experimental population

There is **final** critical habitat for this species. The location of the critical habitat is not available.

Species profile: https://ecos.fws.gov/ecp/species/1391

Insects

NAME

Monarch Butterfly Danaus plexippus

Candidate

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

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Migratory Birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described <u>below</u>.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The Bald and Golden Eagle Protection Act of 1940.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

BREEDING

NAME	SEASON
Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Dec 1 to Aug 31
Black Swift <i>Cypseloides niger</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/8878	Breeds Jun 15 to Sep 10

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NAME	BREEDING SEASON
Black-chinned Sparrow <i>Spizella atrogularis</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9447	Breeds Apr 15 to Jul 31
Cassin's Finch <i>Carpodacus cassinii</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9462	Breeds May 15 to Jul 15
Clark's Nutcracker <i>Nucifraga columbiana</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Jan 15 to Jul 15
Evening Grosbeak <i>Coccothraustes vespertinus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 15 to Aug 10
Grace's Warbler <i>Dendroica graciae</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds May 20 to Jul 20
Lesser Yellowlegs <i>Tringa flavipes</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9679	Breeds elsewhere
Lewis's Woodpecker <i>Melanerpes lewis</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9408	Breeds Apr 20 to Sep 30
Olive-sided Flycatcher <i>Contopus cooperi</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3914	Breeds May 20 to Aug 31
Pinyon Jay <i>Gymnorhinus cyanocephalus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9420	Breeds Feb 15 to Jul 15
Virginia's Warbler <i>Vermivora virginiae</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9441	Breeds May 1 to Jul 31
Western Grebe <i>aechmophorus occidentalis</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/6743	Breeds Jun 1 to Aug 31

Probability Of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- 3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season (

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

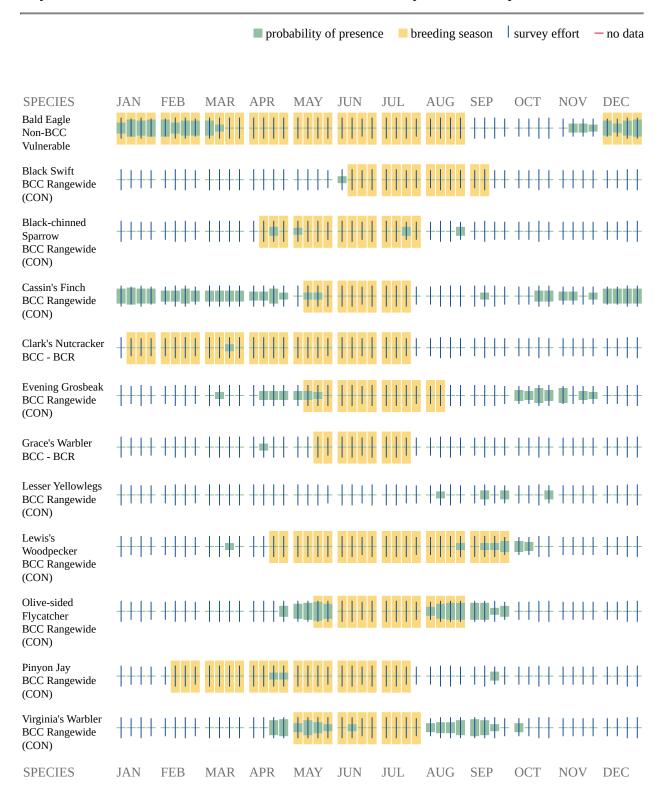
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

No Data (-)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Additional information can be found using the following links:

- Birds of Conservation Concern https://www.fws.gov/program/migratory-birds/species
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf

Migratory Birds FAQ

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern</u> (<u>BCC</u>) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u>.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the RAIL Tool and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- 1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <u>Eagle Act</u> requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

IPaC User Contact Information

Agency: County of Sandoval

Name: Julie Kutz

Address: 6020 Academy NE

City: Albuquerque

State: NM Zip: 87109

Email jkutz@geo-logic.com

Phone: 5053539103

Lead Agency Contact Information

Lead Agency: Army Corps of Engineers

Appendix B Other Species Lists







Federal or State Threatened/Endangered Species Sandoval

Taxonomic Group	# Species	Taxonomic Group	# Species
Amphibians	1	Birds	15
Fish	1	Lepidoptera; moths and butterflies	1
Mammals	3	Molluscs	2

TOTAL SPECIES: 23

Common Name	Scientific Name	<u>NMGF</u>	<u>US FWS</u>	Critical <u>Habitat</u>	<u>SGCN</u>	<u>Photo</u>
Spotted Bat	Euderma maculatum	Т			Υ	<u>View</u>
Pacific Marten	Martes caurina	T			Υ	<u>View</u>
Meadow Jumping Mouse	Zapus luteus luteus	Е	Е	Υ	Υ	<u>View</u>
Yellow-billed Cuckoo (western pop)	Coccyzus americanus occidentalis		Т	Υ	Υ	<u>View</u>
Costa's Hummingbird	Calypte costae	Т			Υ	<u>View</u>
Broad-billed Hummingbird	Cynanthus latirostris	Т			Υ	<u>View</u>
Whooping Crane	Grus americana	Е	Е			No Photo
Neotropic Cormorant	Phalacrocorax brasilianus	T			Υ	<u>View</u>
Brown Pelican	Pelecanus occidentalis	E				<u>View</u>
Bald Eagle	Haliaeetus leucocephalus	Т			Υ	<u>View</u>
Common Black Hawk	Buteogallus anthracinus	T			Υ	<u>View</u>
Mexican Spotted Owl	Strix occidentalis lucida		Т	Υ	Υ	<u>View</u>
Peregrine Falcon	Falco peregrinus	Т			Υ	<u>View</u>
Northern Beardless-Tyrannulet	Camptostoma imberbe	E			Υ	<u>View</u>
Southwestern Willow Flycatcher	Empidonax traillii extimus	E	E	Υ	Υ	<u>View</u>
Bell's Vireo	Vireo bellii	Т			Υ	<u>View</u>
Gray Vireo	Vireo vicinior	Т			Υ	<u>View</u>
Baird's Sparrow	Centronyx bairdii	Т			Υ	<u>View</u>
Jemez Mountains Salamander	Plethodon neomexicanus	E	E	Υ	Υ	<u>View</u>
Rio Grande Silvery Minnow	Hybognathus amarus	E	Е	Υ	Υ	<u>View</u>
Wrinkled Marshsnail	Stagnicola caperata	E			Υ	<u>View</u>
Monarch Butterfly	Danaus plexippus		С			<u>View</u>
Paper Pondshell	Utterbackia imbecillis	E			Υ	<u>View</u>

Appendix C Photographs



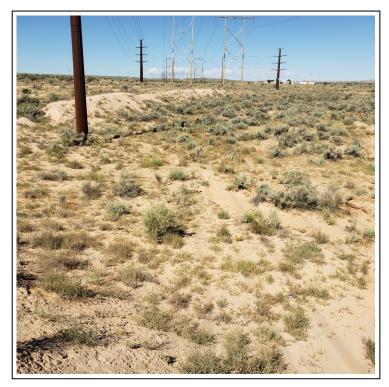


1. Above Arroyo south of Progress Blvd (view to east)



2. South of Progress Blvd, western portion of Project Area (view to north)





3. Area around earthen dam structure possibly at one time a livestock pond (view to west)



4. Arroyo wall and floodplain





5. Arroyo wall sloughing off



6. North of Progress Blvd near Cleveland Heights Rd showing Arroyo in the distance (view to west-northwest)





7. View from north side of Progress Blvd (view to east)



8. View from the central portion of the Project Area (view to west)





9. View from central portion of the Project Area (view to east)



10. View of the area north of the Arroyo, west/central part of the Project Area (view to northwest)







11. View of Arroyo showing evidence of heavy vehicle use



12. Disturbed plot in center portion of the Project Area





13. Heavily trafficked area, center portion of Project Area



14. Typical Arroyo walls, center portion of Project Area





15. Empty nest in fourwing saltbush, northeast corner of Project Area



16. Clouded sulphur butterfly on blooming phlox heliotrope





17. View of Arroyo, western portion looking upstream, showing typical ordinary high water mark (OHWM)



18. View of Arroyo, western portion looking downstream, showing typical OHWM





19. Central portion of Project Area showing typical floodplain and OHWM



20. Central portion of Project Area showing typical cliffs, narrow floodplain, and OHWM



Appendix D

Cultural Resources Report





DEPARTMENT OF THE ARMY U.S. ARMY CORPS OF ENGINEERS, ALBUQUERQUE DISTRICT 4101 JEFFERSON PLAZA NE ALBUQUERQUE, NM 87109-3435

January 15, 2025

HPD Log #124474 Received 1/15/2025

Planning, Project and Program Management Division Planning Branch Environmental Resources Section

Michelle Ensey State Historic Preservation Officer Historic Preservation Division Bataan Memorial Building 407 Galisteo Street, Suite 236 Santa Fe, NM 87501

Dear Ms. Ensey:

Pursuant to Section 106 of the National Historic Preservation Act of 1966 (as amended), the U.S. Army Corps of Engineers (Corps), Albuquerque District, contracted with Okun Consulting Solutions to conduct an archaeological survey of 141.3 acres on Southern Sandoval County Arroyo Flood Control Authority (SSCAFCA) land in Sandoval County, New Mexico. Enclosed please find the completed report, titled *Cultural Resource Survey for the South Sandoval County Arroyo Flood Control Authority (SSCAFCA) Upper Venada Project, Sandoval County, New Mexico* (NMCRIS 152281). The report and associated LA forms are included in this package for your review.

The Southern Sandoval County Arroyo Flood Control Authority (SSCAFCA), in cooperation with the United States Army Corps of Engineers (USACE), is proposing storm water drainage and infiltration improvements along Arroyo Venada in Sandoval County, New Mexico. The project area is located in northern Rio Rancho, north of Paseo del Volcan and east of Westphalia Boulevard (Figures 1 & 2). The SSCAFCA proposes to construct at least one flow diversion/lateral weir structure to divert maximum flows into an off-channel pond that would allow low flows to bypass the weir. Other weir structures and detention ponds may also be constructed along this segment of the arroyo, and a variety of channel configurations have been considered during the design phase of the project. The purpose of the proposed project is to mitigate high flow events and remove debris and sediments from storm flows along Arroyo Venada prior to discharge into the Rio Grande. Currently, there are no facilities to treat and prevent large storm flows from entering the Upper Venada Arroyo. The project would take place entirely on lands owned by the SSCAFCA and would be funded using both federal USACE funds and SSCAFCA bonds. Federal funds would be provided in accordance with Section 595 of the Water Resources Development Act of 1999 (Public Law 106-53), which authorizes the USACE to provide assistance in the form of design and construction for water-related environmental infrastructure, resource protection, and development projects.

The area of potential effects (APE) was defined based on guidance from the USACE and general requirements of the New Mexico Historic Preservation Division (HPD), as outlined in the NMAC. The SSCAFCA provided a large polygon for survey that encompassed all proposed infrastructure and additional buffer zones surrounding all potential ground disturbance. The USACE approved this polygon as the APE, and it was subjected to 100-percent pedestrian survey. The project area is located within Sections 27 and 28 of Township 13 North, Range 03 East and is depicted on the Bernalillo (35106-C5) and Loma Machete (35106-C6) United States Geological Survey (USGS), 7.5-minute quadrangle maps.

A total of 11 previous cultural resource investigations are within 500 m of the Upper Venada project area. Two of these projects include parts of the current APE: (1): an inventory of the PNM WW-BA Transmission Line in 1979 (NMCRIS No. 8113) and (2) survey of 33 acres in the southeastern part of the project area by Colinas Cultural Resource Consulting (NMCRIS No. 115549). This second survey was conducted in 2009 for a proposed equipment yard and asphalt hot plant to be used for the NMDOT-sponsored Paseo del Volcan project (Roney 2009).

The Okun Consulting Solutions survey was conducted in two sessions between September 7 and 15, 2022 and between November 14 and 18, 2022. A total of four newly discovered archaeological sites and eight IOs were documented during 100-percent pedestrian survey of APE. All are unspecified prehistoric in cultural/temporal affiliation. Two additional previously recorded sites (LA 18429 and LA 164147) were revisited but could not be relocated, and they have been fully or partially destroyed since they were originally recorded.

Pursuant to 36 CFR 800, the Corps seeks your concurrence on the Corps' eligibility determinations based on the recommendations made by Okun Consulting Solutions (Table 1). The Corps agrees with the recommendations made by Okun Consulting Solutions and are making them our formal determinations. LA 202546, LA 202547, and LA 202548 are recommended as **eligible** for listing on the National Register of Historic Places (NRHP) under Criterion D for their information potential because they contain intact prehistoric thermal features (LA 202547 and LA 202548) or contain a large artifact scatter in a setting that suggests excellent potential for buried features (LA 202546). Okun Consulting Solutions recommended that these three sites be avoided by ground-disturbing project activities. Archaeological monitoring may be necessary depending on the final design plans. If the recommendations in the attached report are followed, the project would have **no effect** on any historic properties that are listed, or eligible for listing, on the NRHP. The Corps seeks your concurrence with our determination.

If you have any questions or require additional information concerning Okun Consulting Solutions Survey of 141.3 acres on Southern Sandoval County Arroyo Flood Control Authority (SSCAFCA) land in Sandoval County, New Mexico report or eligibility

recommendations, or if you have questions regarding the Corps' eligibility
determinations, please contact archaeologist Jessica Gisler at (505) 342-3309, or me at
(505) 342-3661. You may also provide comments to the above address.

	Sincerely,		
	Danielle G	Calloway	
	Danielle A. Gal Chief, Environn	loway nental Resources Section	
Enclosures			
	I CONCUR		
Date	for	MICHELLE ENSEY STATE HISTORIC	
		PRESERVATION OFFICER	

The New Mexico State Historic Preservation Office (SHPO) concurs with the determinations as proposed. As long as the avoidance measures detailed above--avoidance of eligible archaeological sites (LA 202546, LA 202547, and LA 202548) and archaeological monitoring where necessary--are followed, the proposed undertaking will have no effect on historic properties eligible, or potentially eligible, for listing in the National Register of Historic Places.

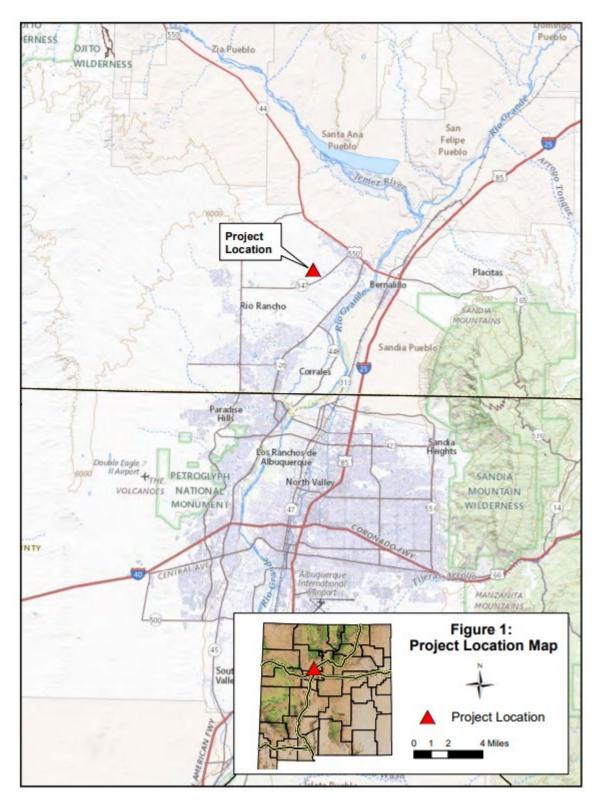


Figure 1: Project Location Map

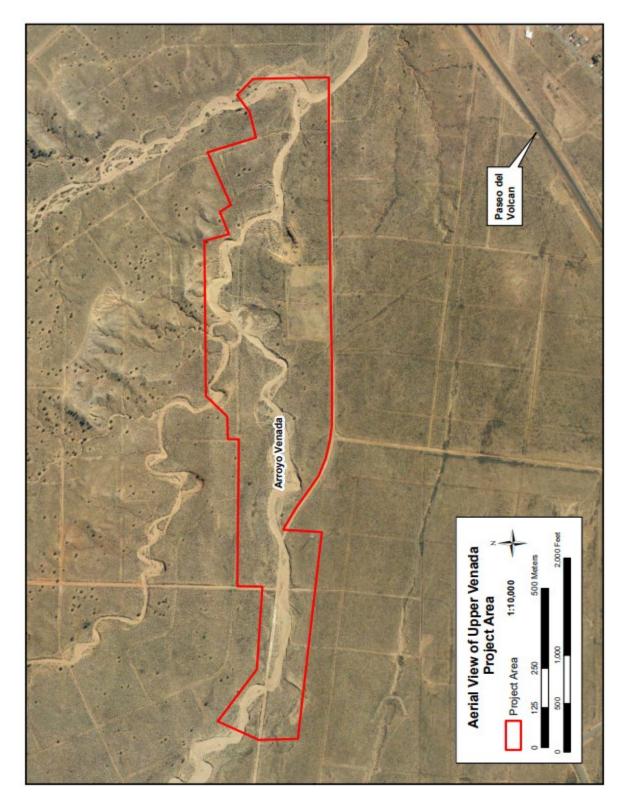


Figure 2: Overview of Project Area

Appendix E

Agency Correspondence





DEPARTMENT OF THE ARMY U.S. ARMY CORPS OF ENGINEERS, ALBUQUERQUE DISTRICT 4101 JEFFERSON PLAZA NE ALBUQUERQUE, NM 87109-3435

January 15, 2025

HPD Log #124474 Received 1/15/2025

Planning, Project and Program Management Division Planning Branch Environmental Resources Section

Michelle Ensey State Historic Preservation Officer Historic Preservation Division Bataan Memorial Building 407 Galisteo Street, Suite 236 Santa Fe, NM 87501

Dear Ms. Ensey:

Pursuant to Section 106 of the National Historic Preservation Act of 1966 (as amended), the U.S. Army Corps of Engineers (Corps), Albuquerque District, contracted with Okun Consulting Solutions to conduct an archaeological survey of 141.3 acres on Southern Sandoval County Arroyo Flood Control Authority (SSCAFCA) land in Sandoval County, New Mexico. Enclosed please find the completed report, titled *Cultural Resource Survey for the South Sandoval County Arroyo Flood Control Authority (SSCAFCA) Upper Venada Project, Sandoval County, New Mexico* (NMCRIS 152281). The report and associated LA forms are included in this package for your review.

The Southern Sandoval County Arroyo Flood Control Authority (SSCAFCA), in cooperation with the United States Army Corps of Engineers (USACE), is proposing storm water drainage and infiltration improvements along Arroyo Venada in Sandoval County, New Mexico. The project area is located in northern Rio Rancho, north of Paseo del Volcan and east of Westphalia Boulevard (Figures 1 & 2). The SSCAFCA proposes to construct at least one flow diversion/lateral weir structure to divert maximum flows into an off-channel pond that would allow low flows to bypass the weir. Other weir structures and detention ponds may also be constructed along this segment of the arroyo, and a variety of channel configurations have been considered during the design phase of the project. The purpose of the proposed project is to mitigate high flow events and remove debris and sediments from storm flows along Arroyo Venada prior to discharge into the Rio Grande. Currently, there are no facilities to treat and prevent large storm flows from entering the Upper Venada Arroyo. The project would take place entirely on lands owned by the SSCAFCA and would be funded using both federal USACE funds and SSCAFCA bonds. Federal funds would be provided in accordance with Section 595 of the Water Resources Development Act of 1999 (Public Law 106-53), which authorizes the USACE to provide assistance in the form of design and construction for water-related environmental infrastructure, resource protection, and development projects.

The area of potential effects (APE) was defined based on guidance from the USACE and general requirements of the New Mexico Historic Preservation Division (HPD), as outlined in the NMAC. The SSCAFCA provided a large polygon for survey that encompassed all proposed infrastructure and additional buffer zones surrounding all potential ground disturbance. The USACE approved this polygon as the APE, and it was subjected to 100-percent pedestrian survey. The project area is located within Sections 27 and 28 of Township 13 North, Range 03 East and is depicted on the Bernalillo (35106-C5) and Loma Machete (35106-C6) United States Geological Survey (USGS), 7.5-minute quadrangle maps.

A total of 11 previous cultural resource investigations are within 500 m of the Upper Venada project area. Two of these projects include parts of the current APE: (1): an inventory of the PNM WW-BA Transmission Line in 1979 (NMCRIS No. 8113) and (2) survey of 33 acres in the southeastern part of the project area by Colinas Cultural Resource Consulting (NMCRIS No. 115549). This second survey was conducted in 2009 for a proposed equipment yard and asphalt hot plant to be used for the NMDOT-sponsored Paseo del Volcan project (Roney 2009).

The Okun Consulting Solutions survey was conducted in two sessions between September 7 and 15, 2022 and between November 14 and 18, 2022. A total of four newly discovered archaeological sites and eight IOs were documented during 100-percent pedestrian survey of APE. All are unspecified prehistoric in cultural/temporal affiliation. Two additional previously recorded sites (LA 18429 and LA 164147) were revisited but could not be relocated, and they have been fully or partially destroyed since they were originally recorded.

Pursuant to 36 CFR 800, the Corps seeks your concurrence on the Corps' eligibility determinations based on the recommendations made by Okun Consulting Solutions (Table 1). The Corps agrees with the recommendations made by Okun Consulting Solutions and are making them our formal determinations. LA 202546, LA 202547, and LA 202548 are recommended as **eligible** for listing on the National Register of Historic Places (NRHP) under Criterion D for their information potential because they contain intact prehistoric thermal features (LA 202547 and LA 202548) or contain a large artifact scatter in a setting that suggests excellent potential for buried features (LA 202546). Okun Consulting Solutions recommended that these three sites be avoided by ground-disturbing project activities. Archaeological monitoring may be necessary depending on the final design plans. If the recommendations in the attached report are followed, the project would have **no effect** on any historic properties that are listed, or eligible for listing, on the NRHP. The Corps seeks your concurrence with our determination.

If you have any questions or require additional information concerning Okun Consulting Solutions Survey of 141.3 acres on Southern Sandoval County Arroyo Flood Control Authority (SSCAFCA) land in Sandoval County, New Mexico report or eligibility

recommendations, or if you have questions regarding the Corps' eligibility
determinations, please contact archaeologist Jessica Gisler at (505) 342-3309, or me at
(505) 342-3661. You may also provide comments to the above address.

	Sincerely,		
	Danielle G	Calloway	
	Danielle A. Gal Chief, Environn	loway nental Resources Section	
Enclosures			
	I CONCUR		
Date	for	MICHELLE ENSEY STATE HISTORIC	
		PRESERVATION OFFICER	

The New Mexico State Historic Preservation Office (SHPO) concurs with the determinations as proposed. As long as the avoidance measures detailed above--avoidance of eligible archaeological sites (LA 202546, LA 202547, and LA 202548) and archaeological monitoring where necessary--are followed, the proposed undertaking will have no effect on historic properties eligible, or potentially eligible, for listing in the National Register of Historic Places.

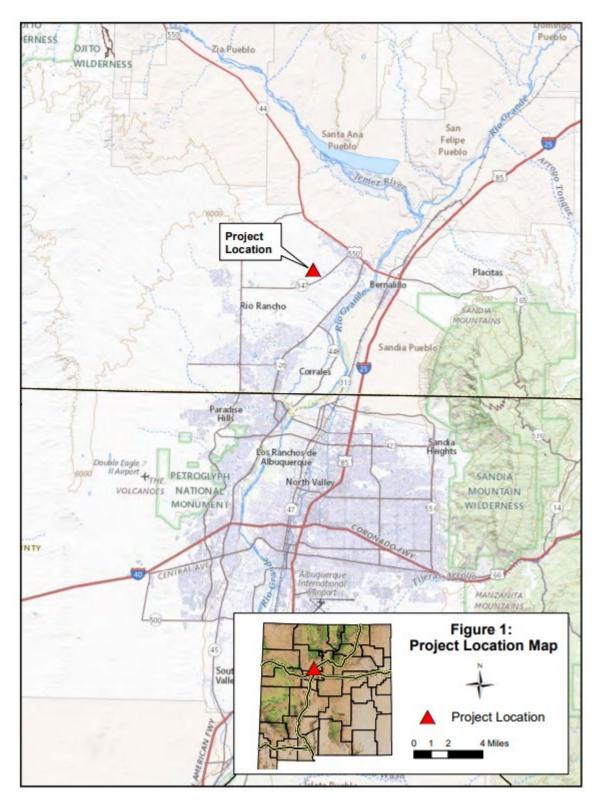


Figure 1: Project Location Map

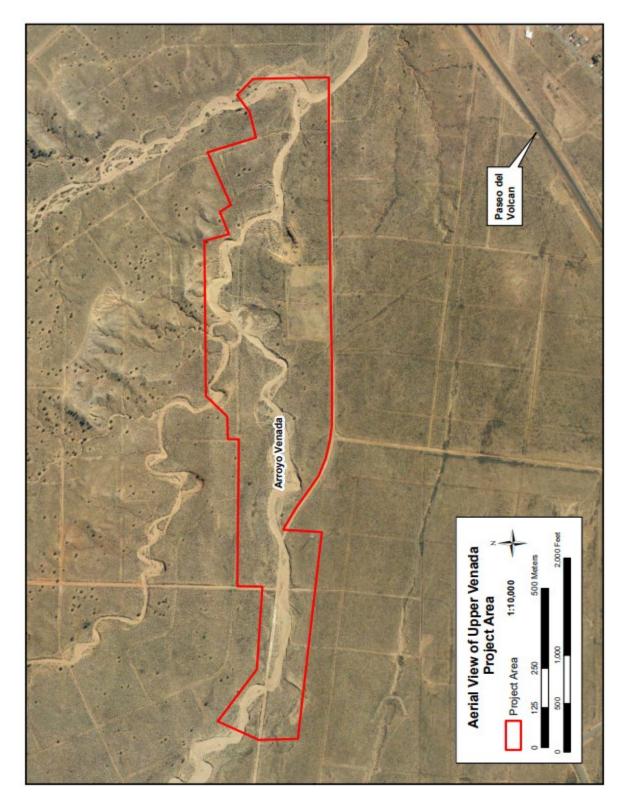


Figure 2: Overview of Project Area

Table 1. Site Eligibility Determinations: Okun Consulting Solutions' Archaeological Survey of 141.3 Acres on Southern Sandoval County Arroyo Flood Control Authority (SSCAFCA) land in Sandoval County, New Mexico

LA Number	Site Type	Okun Consulting Solutions Recommendation	US Army Corps of Engineers Determination	SHPO Concurrence
LA 18429	Surface structure, hearths, lithic scatter	Site was not relocated in the project area. Okun Consulting Solutions recommended that the site should remain undetermined for listing on the NRHP.	Undetermined	
LA 164147	Lithic scatter	Site was not relocated in the project area and has likely been destroyed. Okun Consulting Solutions recommends that the site now be determined not eligible for listing on the NRHP.	Not eligible	
LA 202545	Lithic scatter	Not eligible	Not eligible	
LA 202546	Lithic scatter	Eligible (D)	Eligible (D)	
LA 202547	Isolated subsurface feature	Eligible (D)	Eligible (D)	
LA 202548	Isolated subsurface feature	Eligible (D)	Eligible (D)	



DEPARTMENT OF THE ARMY U.S. ARMY CORPS OF ENGINEERS, ALBUQUERQUE DISTRICT 4101 JEFFERSON PLAZA NE ALBUQUERQUE, NM 87109-3435

January 15, 2025

Planning, Project and Program Management Division Planning Branch Environmental Resources Section

Honorable Joel Arquero Governor of Pueblo de Cochiti Post Office Box 70 Cochiti, New Mexico 87072

Dear Governor Arquero:

Pursuant to Section 106 of the National Historic Preservation Act of 1966 (as amended), the U.S. Army Corps of Engineers (Corps), Albuquerque District, contracted with Okun Consulting Solutions to conduct an archaeological survey of 141.3 acres on Southern Sandoval County Arroyo Flood Control Authority (SSCAFCA) land in Sandoval County, New Mexico. Enclosed please find the completed report, titled *Cultural Resource Survey for the South Sandoval County Arroyo Flood Control Authority (SSCAFCA) Upper Venada Project, Sandoval County, New Mexico* (NMCRIS 152281). The report and associated LA forms are included in this package for your review.

The Southern Sandoval County Arroyo Flood Control Authority (SSCAFCA), in cooperation with the United States Army Corps of Engineers (USACE), is proposing storm water drainage and infiltration improvements along Arroyo Venada in Sandoval County, New Mexico. The project area is located in northern Rio Rancho, north of Paseo del Volcan and east of Westphalia Boulevard (Figures 1 & 2). The SSCAFCA proposes to construct at least one flow diversion/lateral weir structure to divert maximum flows into an off-channel pond that would allow low flows to bypass the weir. Other weir structures and detention ponds may also be constructed along this segment of the arroyo, and a variety of channel configurations have been considered during the design phase of the project. The purpose of the proposed project is to mitigate high flow events and remove debris and sediments from storm flows along Arroyo Venada prior to discharge into the Rio Grande. Currently, there are no facilities to treat and prevent large storm flows from entering the Upper Venada Arroyo. The project would take place entirely on lands owned by the SSCAFCA and would be funded using both federal USACE funds and SSCAFCA bonds. Federal funds would be provided in accordance with Section 595 of the Water Resources Development Act of 1999 (Public Law 106-53), which authorizes the USACE to provide assistance in the form of design and construction for water-related environmental infrastructure, resource protection, and development projects.

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The Corps is seeking input from tribes regarding the proposed storm water drainage and infiltration project and asking if consultation is wanted for this project. The purpose of this scoping letter is to provide you with the opportunity to submit concerns or comments regarding potential effects. Specifically, any concerns you may have

regarding the environment such as natural, biological, or cultural resources; wildlife, vegetation, and special status species; air, water, or sound quality; aesthetics; health and safety; Traditional Cultural Properties; or Indian Trust Assets that may occur within or adjacent to the project area. The Corps kindly requests that comments be submitted by February 13, 2025.

Should previously unknown artifacts or historic properties be encountered during construction, work would cease in the immediate vicinity of the resource. A determination of significance would be made, and further consultation with the New Mexico State Historic Preservation Officer and with tribes that may have concerns or interests in the project area would be conducted to determine the best course of action.

If you have any questions or require additional information concerning Okun Consulting Solutions Survey of 141.3 acres on Southern Sandoval County Arroyo Flood Control Authority (SSCAFCA) land in Sandoval County, New Mexico report or eligibility recommendations, or if you have questions regarding the Corps' eligibility determinations, please contact archaeologist Jessica Gisler at (505) 342-3309, or me at (505) 342-3661. You may also provide comments to the above address.

Sincerely,

Danielle A. Galloway Chief. Environmental Resources Section

Enclosures

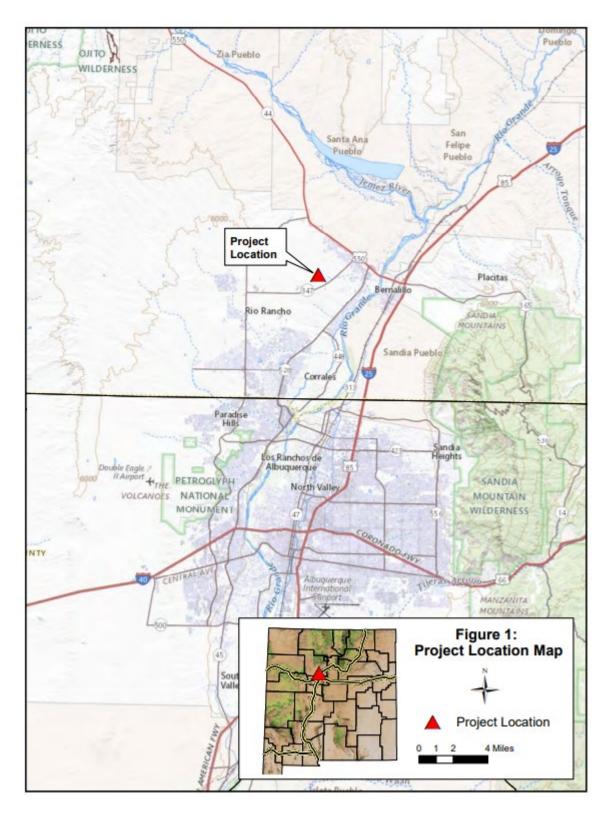


Figure 1. Project Location Map

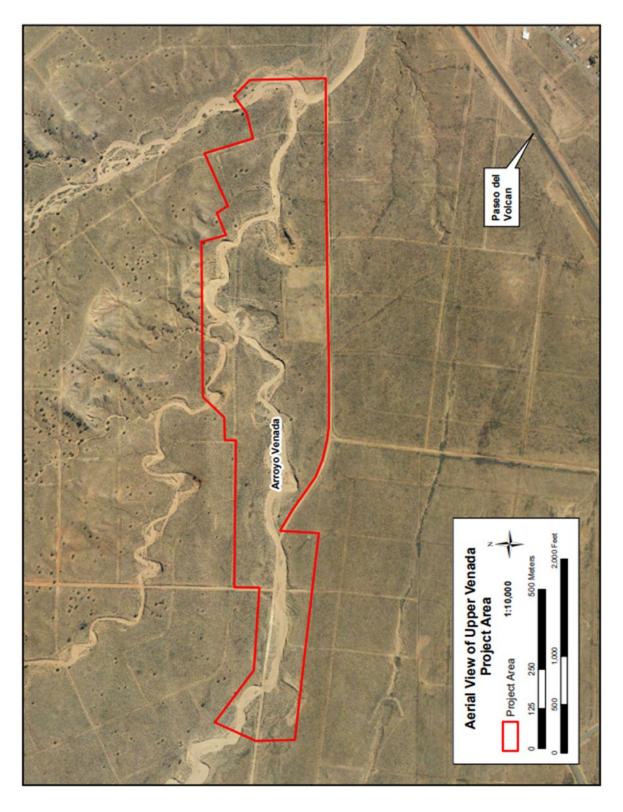


Figure 2: Overview of Project Area

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LA	Site	Okun	US Army	SHPO
Number	Туре	Consulting	Corps of	Concurrence
		Solutions	Engineers	
		Recommendation	Determination	
LA	Surface	Site was not	Undetermined	
18429	structure,	relocated in the		
	hearths,	project area.		
	lithic scatter	Okun Consulting		
		Solutions		
		recommended that		
		the site should		
		remain		
		undetermined for		
		listing on the		
		NRHP.		
LA	Lithic	Site was not	Not eligible	
164147	scatter	relocated in the		
		project area and		
		has likely been		
		destroyed. Okun		
		Consulting		
		Solutions		
		recommends that		
		the site now be		
		determined not		
		eligible for listing		
	1 141 1	on the NRHP.	N (" " "	
LA	Lithic	Not eligible	Not eligible	
202545	scatter			
LA	Lithic	Eligible (D)	Eligible (D)	
202546	scatter	FP. 'L.L. /B\	FP. 9.1 /B\	
LA	Isolated	Eligible (D)	Eligible (D)	
202547	subsurface			
	feature	F:: :: (B)	FI 11 (B)	
LA	Isolated	Eligible (D)	Eligible (D)	
202548	subsurface			
	feature			