

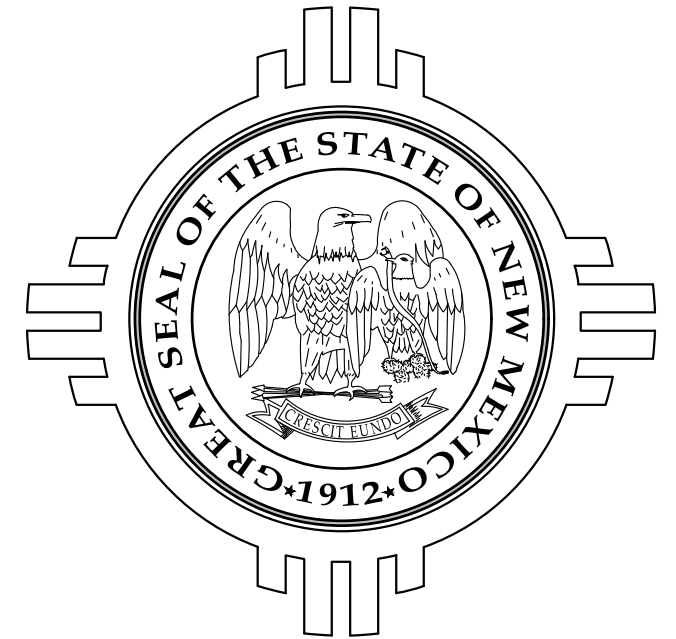
New Mexico

SAN JUAN COUNTY

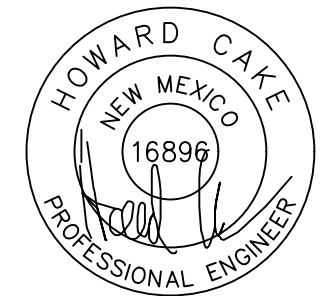
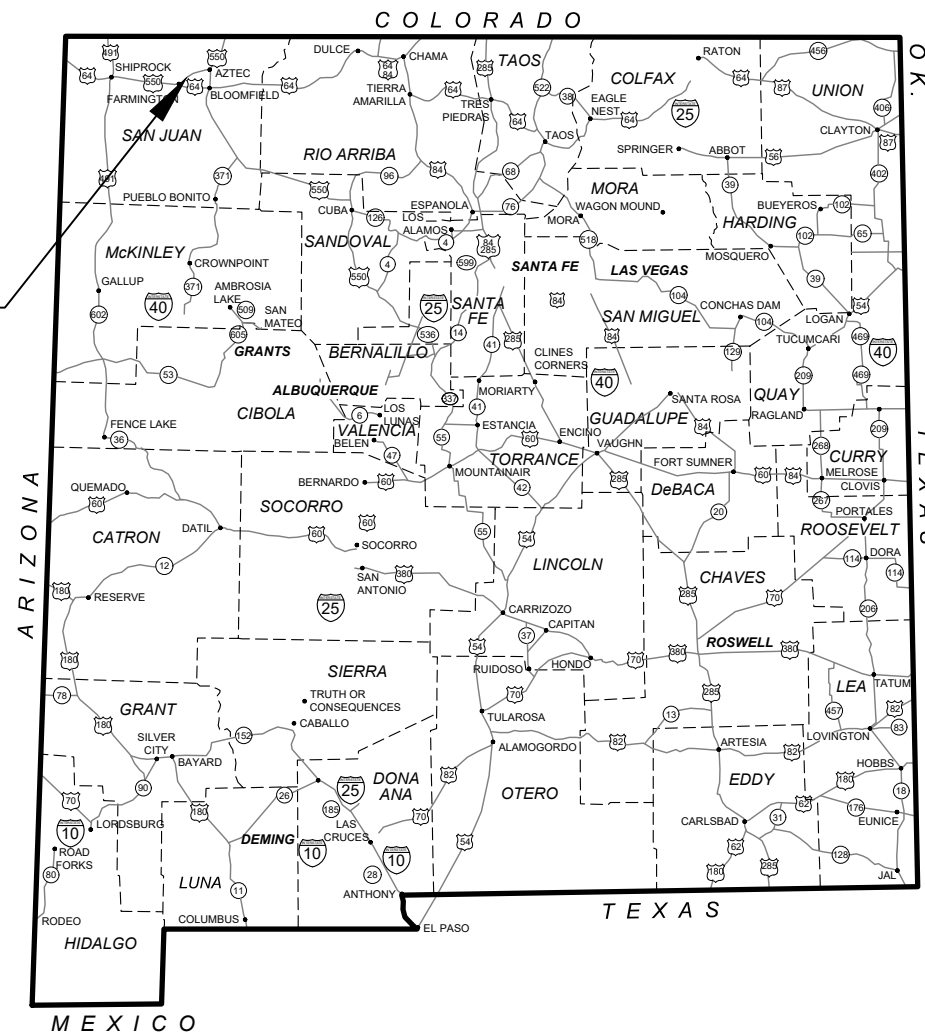
CONSTRUCTION PLANS

CN 21-22-23

SAN JUAN COUNTY



CN 21-22-23
BRIDGE 10136
M.P. 3.984 TO M.P. 4.069



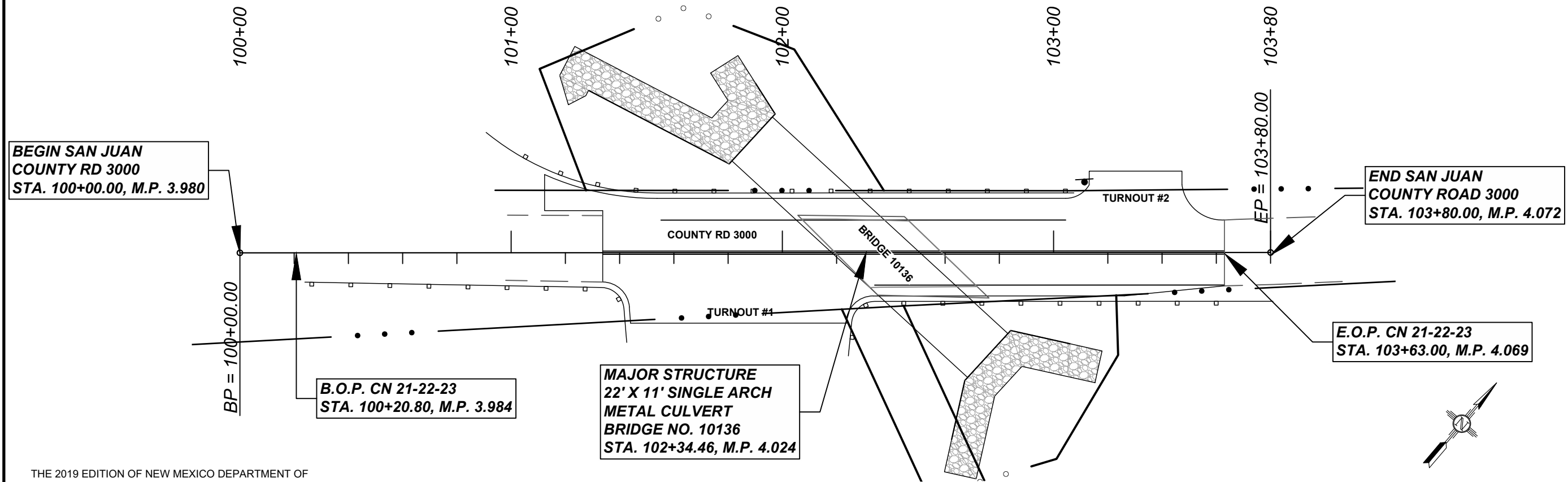
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FINAL DESIGN PLANS



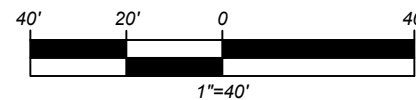
SAN JUAN COUNTY
21-22-23

LENGTH OF PROJECT 0.085 miles
THIS PROJECT BEGINS IN SECTION 23, T.30N, R.12W, N.M.P.M.
THIS PROJECT ENDS IN SECTION 23, T.30N, R.12W, N.M.P.M.



THE 2019 EDITION OF NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND STANDARD DRAWINGS FOR HIGHWAY AND BRIDGE CONSTRUCTION SHALL GOVERN CONSTRUCTION OF THIS PROJECT.

VICINITY MAP



← To Flora Vista, NM
~1.06 miles
T.30N
R.12W
SEC. 23

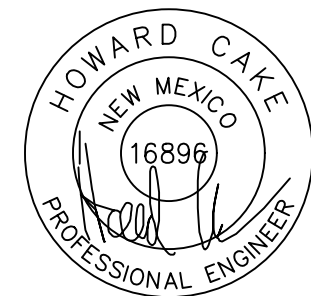
INTENT OF PROJECT

REPLACEMENT OF BRIDGE 3121 ON COUNTY ROAD 3000 ACROSS JONES ARROYO IN SAN JUAN COUNTY. CONSTRUCT BRIDGE 10136 TO IMPROVE DRAINAGE FOR THE ARROYO, NEW PAVING, STRIPING, GUARDRAIL, AND OTHER ASSOCIATED ROADWAY IMPROVEMENTS.

PROJECT CONTACT INFORMATION

SAN JUAN COUNTY
NICK PORELL
PUBLIC WORKS DIRECTOR
(505) 334-4530

T.Y. LIN
HOWARD CAKE
PROJECT ENGINEER
(505) 730-0882



01/18/24

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CR 3000 OVER JONES ARROYO
BRIDGE 10136
VICINITY MAP

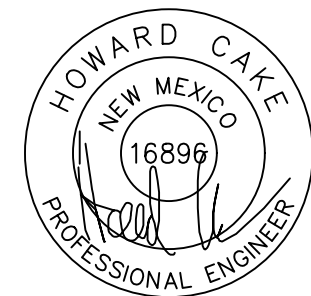


SAN JUAN COUNTY
21-22-23

| INDEX OF SHEETS | |
|--------------------------|---|
| SHEET NO. | DESCRIPTION |
| SERIES 1 | |
| 1-1 | COVERSHEET |
| 1-2 | VICINITY MAP |
| 1-3 | INDEX OF SHEETS |
| 1-4 | SUMMARY OF QUANTITIES |
| 1-5 | GENERAL NOTES |
| SUBTOTAL - 5 | |
| SERIES 2 | |
| 2-1 | TYPICAL SECTIONS |
| SUBTOTAL - 1 | |
| SERIES 3 | |
| 3-1 | ROADWAY PLAN AND PROFILE |
| 3-2 | CULVERT PLAN AND PROFILE |
| 3-3 | EROSION AND GRADING PLAN |
| 3-4 | ARROYO GRADING PLAN |
| SUBTOTAL - 4 | |
| SERIES 4 | |
| 4-1 | TURNOUT PLAN AND PROFILE |
| SUBTOTAL - 1 | |
| SERIES 5 | |
| 5-1 | GENERAL NOTES |
| 5-2 | PLAN AND PROFILE |
| 5-3 | EXISTING BRIDGE REMOVALS |
| 5-4 | FOUNDATION LAYOUT |
| 5-5 | DRILLED SHAFT & GRADE BEAM DETAILS |
| 5-6 | WINGWALL & HEADWALL DETAILS |
| 5-7 | BACKFILL DETAILS |
| SUBTOTAL - 7 | |
| SERIES 7 | |
| 7-1 | GENERAL NOTES |
| 7-2 | PERMANENT SIGNING & STRIPING QUANTITIES |
| 7-3 | PERMANENT SIGNING AND STRIPING |
| SUBTOTAL - 3 | |
| TOTAL SHEETS - 21 | |

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CR 3000 OVER JONES ARROYO
BRIDGE 10136
INDEX OF SHEETS



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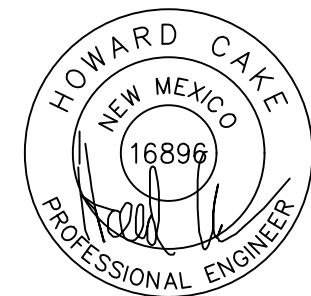


SAN JUAN COUNTY
21-22-23

| SUMMARY OF QUANTITIES | | | ROADWAY | | MAJOR STRUCTURES | | PROJECT TOTAL | |
|-----------------------|--|----------|----------|-------|------------------|-------|---------------|-------|
| ITEM NO. | DESCRIPTION | BID UNIT | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL |
| 201000 | CLEARING AND GRUBBING | LS | | | | | LS | |
| 203100 | BORROW | C.Y. | 1,600 | | | | 1,600 | |
| 207000 | SUBGRADE PREPARATION | S.Y. | 1,100 | | | | 1,100 | |
| 210002 | MAJOR STRUCTURE EXCAVATION | C.Y. | | | 370 | | 370 | |
| 210003 | MAJOR STRUCTURE BACKFILL | C.Y. | | | 1,010 | | 1,010 | |
| 303160 | BASE COURSE 6" | S.Y. | 2,200 | | | | 2,200 | |
| 407000 | ASPHALT MATERIAL FOR TACK COAT | TON | 1 | | | | 1 | |
| 408100 | PRIME COAT MATERIAL | TON | 2 | | | | 2 | |
| 416107 | MINOR PAVING TYPE I, HMA SP-IV | S.Y. | 1,100 | | | | 1,100 | |
| 502030 | DRILLED SHAFT FOUNDATION 30" DIAMETER | L.F. | | | 544 | | 544 | |
| 502600 | OBSTRUCTION REMOVAL | L.F. | | | 54 | | 54 | |
| 505000 | CROSSHOLE SONIC LOGGING CONSULTANT TESTING | EACH | | | 16 | | 16 | |
| 505011 | LOW STRAIN INTEGRITY CONSULTANT TESTING | EACH | | | 4 | | 4 | |
| 511030 | STRUCTURAL CONCRETE, CLASS AA | C.Y. | | | 66 | | 66 | |
| 540060 | REINFORCING BARS GRADE 60 | LB | | | 91,990 | | 91,990 | |
| 571XXX | 22'0" Sx11'0" R STRUCTURAL PLATE PIPE ARCH | L.F. | | | 118 | | 118 | |
| 547000 | SAFETY AND ENVIRONMENTAL REQUIREMENTS | LS | | | | | LS | |
| 601000 | REMOVAL OF STRUCTURES AND OBSTRUCTIONS | LS | | | | | LS | |
| 602010 | RIPRAP CLASS B | C.Y. | 350 | | | | 350 | |
| 603281 | SWPPP PLAN PREPARATION AND MAINTENANCE | LS | | | | | LS | |
| 606001 | SINGLE FACE W-BEAM GUARDRAIL | L.F. | 415 | | | | 415 | |
| 606052 | END TREATMENT TL-2 END TERMINAL | EACH | 3 | | | | 3 | |
| 606055 | END TREATMENT DRIVEWAY END ANCHOR | EACH | 2 | | | | 2 | |
| 606063 | EXISTING BEAM GUARDRAIL TO 31" BEAM GUARDRAIL TRANSITION | EACH | 1 | | | | 1 | |
| 617000 | VIBRATION MONITORING | LS | | | | | LS | |
| 617003 | VIDEO RECORDING | LS | | | | | LS | |
| 618000 | TRAFFIC CONTROL MANAGEMENT | LS | | | | | LS | |
| 621000 | MOBILIZATION | LS | | | | | LS | |
| 632000 | CLASS A SEEDING | ACRE | 1 | | | | 1 | |
| 667110 | MAIL BOX INSTALLATION-SINGLE | EACH | 2 | | | | 2 | |
| 701000 | PANEL SIGNS | S.F. | 7 | | | | 7 | |
| 701030 | REMOVE AND RESET PANEL SIGN | EACH | 1 | | | | 1 | |
| 701100 | STEEL POST AND BASE POST FOR ALUMINUM PANEL SIGNS | L.F. | 13 | | | | 13 | |
| 702810 | TRAFFIC CONTROL DEVICES FOR CONSTRUCTION | LS | | | | | LS | |
| 704700 | HOT THERMOPLASTIC PAVEMENT MARKINGS 4" | L.F. | 1,480 | | | | 1,480 | |
| 801000 | CONSTRUCTION STAKING BY THE CONTRACTOR | LS | | | | | LS | |

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CR 3000 OVER JONES ARROYO
BRIDGE 10136
SUMMARY OF QUANTITIES



01/18/24

GENERAL NOTES

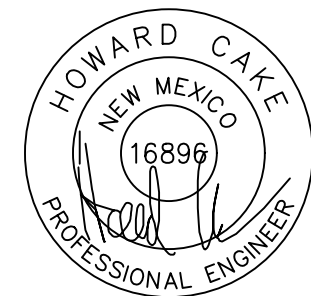
1. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH NMDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 2019 EDITION.
3. THE CONTRACTOR SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER AND ENGINEER FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
5. ALL STREET STRIPING, ALTERED OR DESTROYED, SHALL BE THERMOPLASTIC REFLECTORIZED PAVEMENT MARKINGS TO SAME LOCATION AS EXISTING, OR AS INDICATED BY THIS PLAN SET.
6. NO PAVING ACTIVITIES SHALL BE STARTED UNTIL THE LOCATION AND SERVICEABILITY OF ALL UNDERGROUND UTILITIES WITHIN THE ROADWAY ARE APPROVED BY THE COUNTY.
7. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. ANY PREVIOUSLY UNKNOWN UTILITY RELOCATIONS IDENTIFIED BY THE CONTRACTOR AND APPROVED BY THE COUNTY PROJECT MANAGER SHALL BE COVERED THROUGH THE UTILITY RELOCATION ALLOWANCE ESTABLISHED FOR THIS PROJECT.
8. THE CONTRACTOR IS TO SUPPORT AND MAINTAIN THE INTEGRITY OF ALL UNDERGROUND WATER, WASTEWATER, REUSE WATER, TELEPHONE, ELECTRIC CABLES AND CABLE TELEVISION UTILITIES AT NO ADDITIONAL COST TO THE OWNER. CABLE IS TO BE SUPPORTED AT A MAXIMUM OF EVERY FIFTEEN (15) FEET. THE CONTRACTOR SHALL COORDINATE WITH AND MAKE NECESSARY PAYMENT (IF ANY) TO UTILITY OWNER FOR DE-ENERGIZATION OF CABLES OR SUPPORT OF CABLES BY THE UTILITY OWNER.
9. CONTRACTOR, AT HIS EXPENSE, IS RESPONSIBLE FOR DRAINAGE MANAGEMENT AND EROSION CONTROL AT ALL TIMES DURING THE CONSTRUCTION PERIOD.
10. THE CONTRACTOR, AT HIS EXPENSE, SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR PRIVATE ROADWAY EASEMENTS SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET, PRIVATE PROPERTY, OR INTO ANY PUBLIC DRAINAGE FACILITY.
11. CONTRACTOR, THROUGH BID ITEM #702810, SHALL BE RESPONSIBLE TO PROVIDE AND MAINTAIN ALL CONSTRUCTION SIGNING UNTIL THE PROJECT HAS BEEN ACCEPTED BY SAN JUAN COUNTY.
12. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
13. IF A PAVEMENT DROP-OFF IS CREATED DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL INITIATE PROTECTIVE ACTION TO MAINTAIN A SMOOTH TRANSITION. THIS WORK SHALL AT THE CONTRACTOR'S EXPENSE. NO ADDITIONAL PAYMENT SHALL BE MADE.
14. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE COUNTY PROJECT MANAGER OR CONSTRUCTION OBSERVER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
15. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
16. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.
17. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO RIGHT-OF-WAY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY COSTS INCURRED FOR REPAIRS SHALL BE THE COST OF THE CONTRACTOR.
18. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE AT HIS EXPENSE ANY AND ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.
19. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE M.U.T.C.D., U.S. DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
20. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.
21. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENTS, PAVEMENT MARKINGS, SIGNAGE, CURB & GUTTER, DRIVEPADS, ADA CURB RAMPS, AND SIDEWALK DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS AND SHALL REPAIR OR REPLACE PER NMDOT STANDARDS, AT HIS OWN EXPENSE.
22. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.
23. ANY DISTURBED OR CONSTRUCTED SLOPE EXCEEDING 3:1 SHALL BE RE-VEGETATED/SEEDED WITH CLASS "A" NATIVE SEED WITH STRAW MULCH. THIS WORK SHALL BE INCIDENTAL TO BID ITEM #632000
24. GUARDS/POSITIVE PROTECTION SHALL BE LOCATED ALONG OPEN-SIDED WALKING SURFACES THAT ARE LOCATED MORE THAN 30 INCHES MEASURED VERTICALLY TO THE FLOOR OR GRADE BELOW AT ANY POINT WITHIN 36 INCHES HORIZONTALLY TO THE EDGE OF THE OPEN SIDE. GUARDS SHALL BE IN ACCORDANCE WITH SECTION 1016 OF THE 2018 IBC. IF THIS SITUATION OCCURS THE CONTRACTOR SHALL NOTIFY THE COUNTY PROJECT MANAGER PRIOR TO PROCEEDING.
25. WARPING OF SLOPES: THE CONTRACTOR SHALL WARP SLOPES WHERE NECESSARY TO STAY WITHIN THE RIGHT OF WAY OR TEMPORARY CONSTRUCTION EASEMENT LIMITS, SUBJECT TO THE APPROVAL OF THE COUNTY PROJECT MANAGER.
26. CONTRACTOR TO TEST SUBGRADE R-VALUE PRIOR TO CONSTRUCTION. IN THE EVENT THE R-VALUE IS LESS THAN 40, REMOVE 2 FEET OF SUBGRADE MATERIAL AND IMPORT MATERIAL WITH R-VALUE GREATER THAN 40 OR CONTACT THE ENGINEER IMMEDIATELY SO THE PAVEMENT SECTION CAN BE MODIFIED.
27. AS-BUILTS: THE CONTRACTOR SHALL MAINTAIN AN UP TO DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THESE PLANS SHALL BE KEPT CURRENT, WITHIN TWO WEEKS, AT ALL TIMES AND SHALL BE SUBJECT TO REVIEW BY THE PROJECT ENGINEER THROUGHOUT THE PROJECT AND WILL BE REVIEWED BY THE PROJECT ENGINEER FOR ACCURACY AND COMPLETENESS AT LEAST ONCE EVERY 30 DAYS. THE FINAL AS-BUILT PLANS SHALL BE SUBMITTED AND ACCEPTED BY THE COUNTY PROJECT MANAGER PRIOR TO FINAL PAYMENT. PREPARATION OF AS-BUILTS SHALL BE INCIDENTAL TO BID ITEM #621000.
28. VIBRATION MONITORING AND VIDEO TAPING DOCUMENTATION SHALL BE PERFORMED IN AND AROUND ALL STRUCTURES. "STRUCTURE" IS DEFINED AS BUILDINGS, RETAINING AND PRIVACY WALLS, END WALLS, DROP INLETS, CATCH BASINS, SEWER AND SERVICE PIPES, DRAINS AND OTHER FEATURES THAT MAY BE ENCOUNTERED DURING CONSTRUCTION. THE CONSTRUCTION AREA AND AREAS ADJACENT TO THE LIMITS OF CONSTRUCTION SHALL ALSO BE VIDEO TAPED. VIBRATION MONITORING AND VIDEO TAPING DOCUMENTATION SHALL BE PAID BY BID ITEM #617003.



SAN JUAN COUNTY
21-22-23

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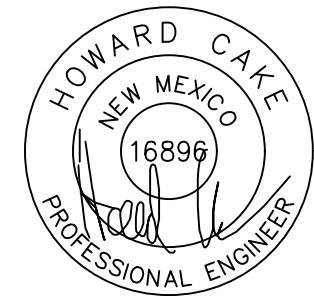
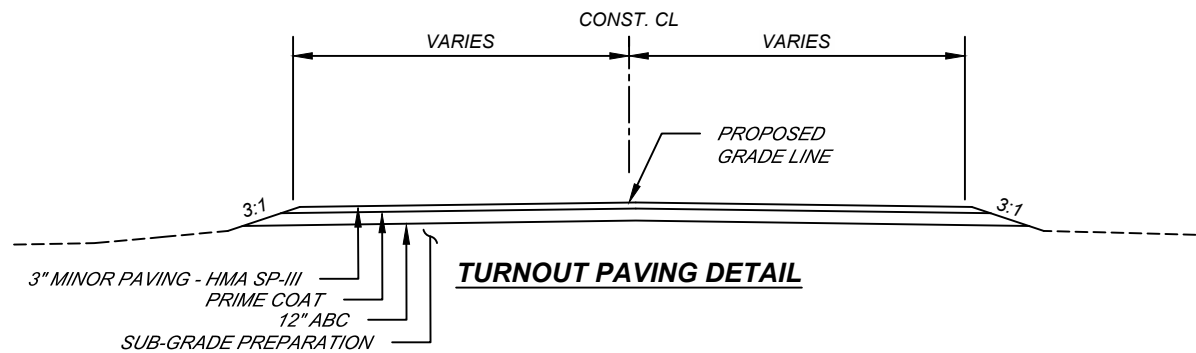
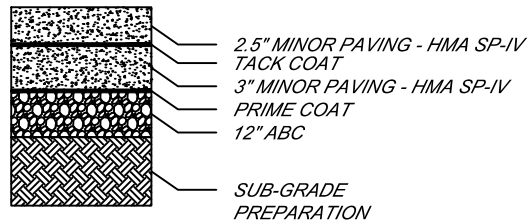
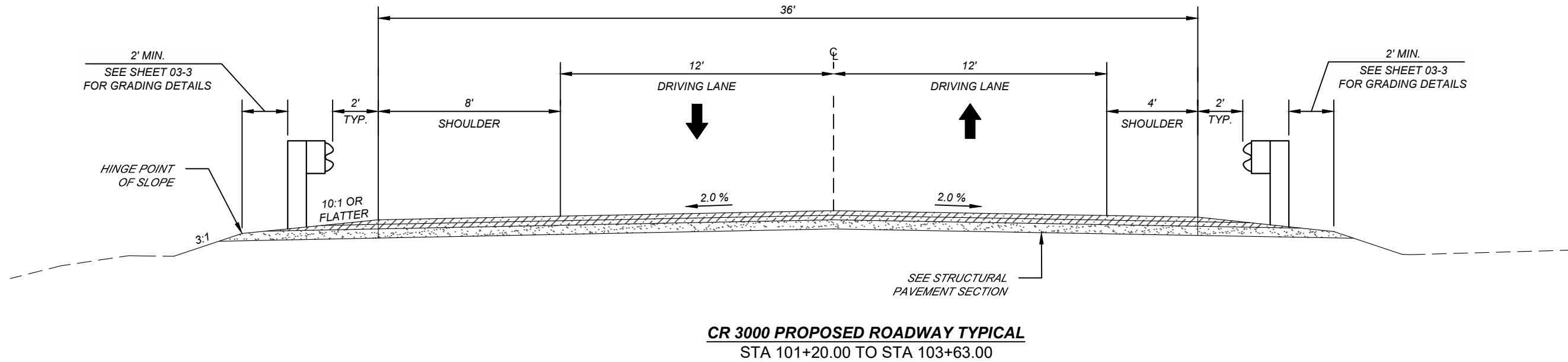
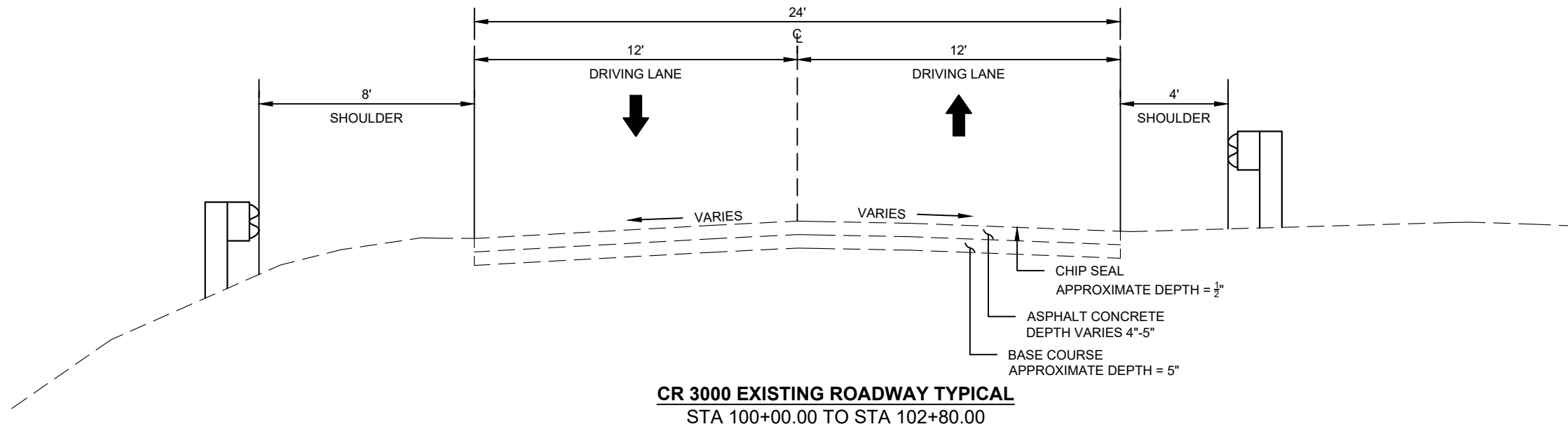
CR 3000 OVER JONES ARROYO
BRIDGE 10136
GENERAL NOTES



01/18/24



SAN JUAN COUNTY
21-22-23



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CR 3000 OVER JONES ARROYO
BRIDGE 10136
TYPICAL SECTIONS



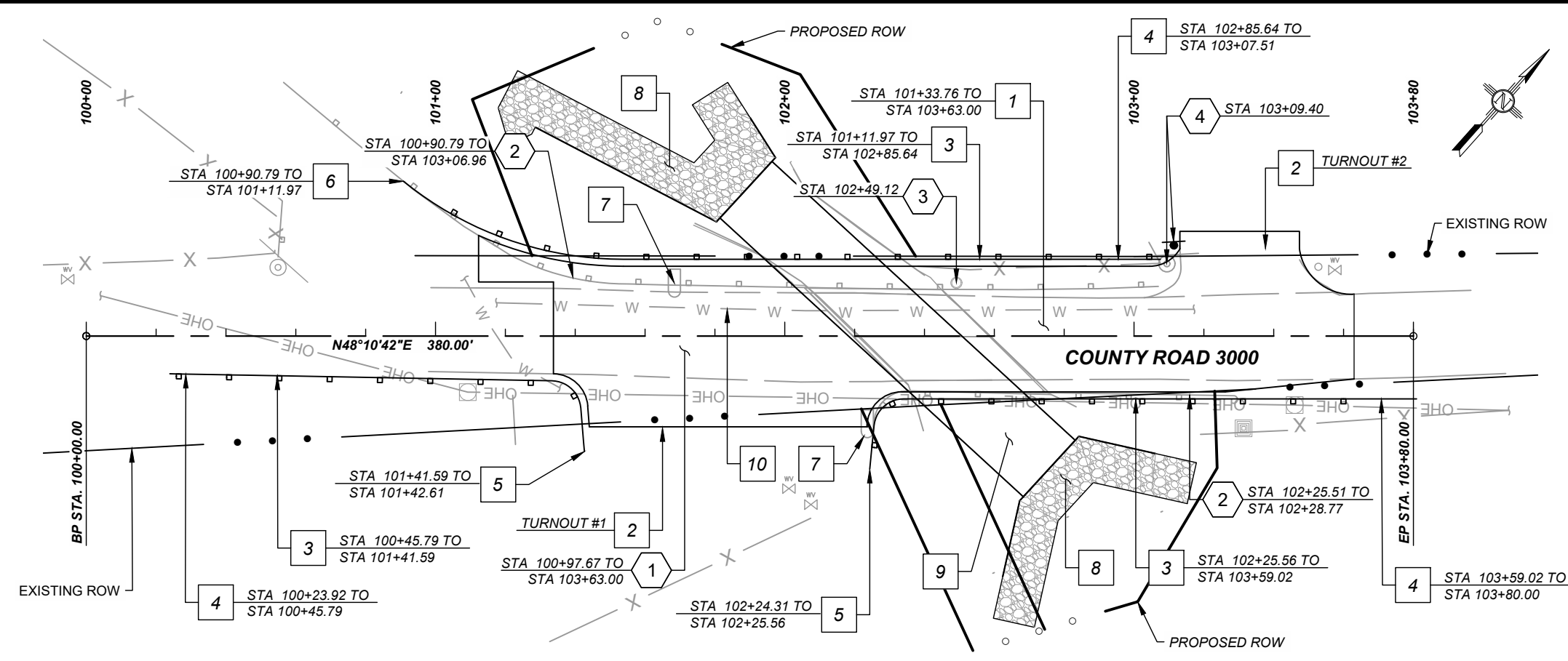
SAN JUAN COUNTY
21-22-23

CONSTRUCTION NOTES

- 1 BUILD NEW ROADWAY PAVEMENT WITH SUBGRADE PREPARATION. SEE STRUCTURAL PAVEMENT SECTION ON SHEET 02-1.
- 2 CONSTRUCT PAVED TURNOUT PER DETAILS ON SHEET 04-1.
- 3 INSTALL NEW GUARDRAIL PER NMDOT STD. DWG. 606-GR31.
- 4 INSTALL TL-2 END TERMINAL PER NMDOT STD. DWG. 606-GR31-8/20
- 5 INSTALL GUARDRAIL DRIVEWAY END ANCHOR PER NMDOT STD. DWG. 606-GR31-10/20
- 6 INSTALL TRANSITION - EXISTING BEAM GUARDRAIL TO 31" BEAM GUARDRAIL PER NMDOT STD DWG. 606-GR31-18/20
- 7 REMOVE AND RELOCATE EXISTING MAILBOX. LOCATION TO BE DETERMINED BY COUNTY PROJECT MANAGER.
- 8 INSTALL RIP RAP EROSION PROTECTION WITH GEOSYNTHETIC FILTER FABRIC PER DETAILS ON SHEET 03-3.
- 9 INSTALL SINGLE RADIUS STEEL ARCH CULVERT PER DETAILS ON SHEET 03-2.
- 10 COORDINATE EXISTING WATER LINE RELOCATION WITH COUNTY PROJECT MANAGER AND UTILITY COMPANY. WORK IS INCIDENTAL TO MOBILIZATION.

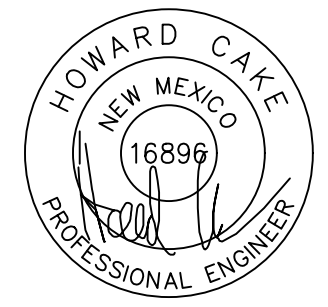
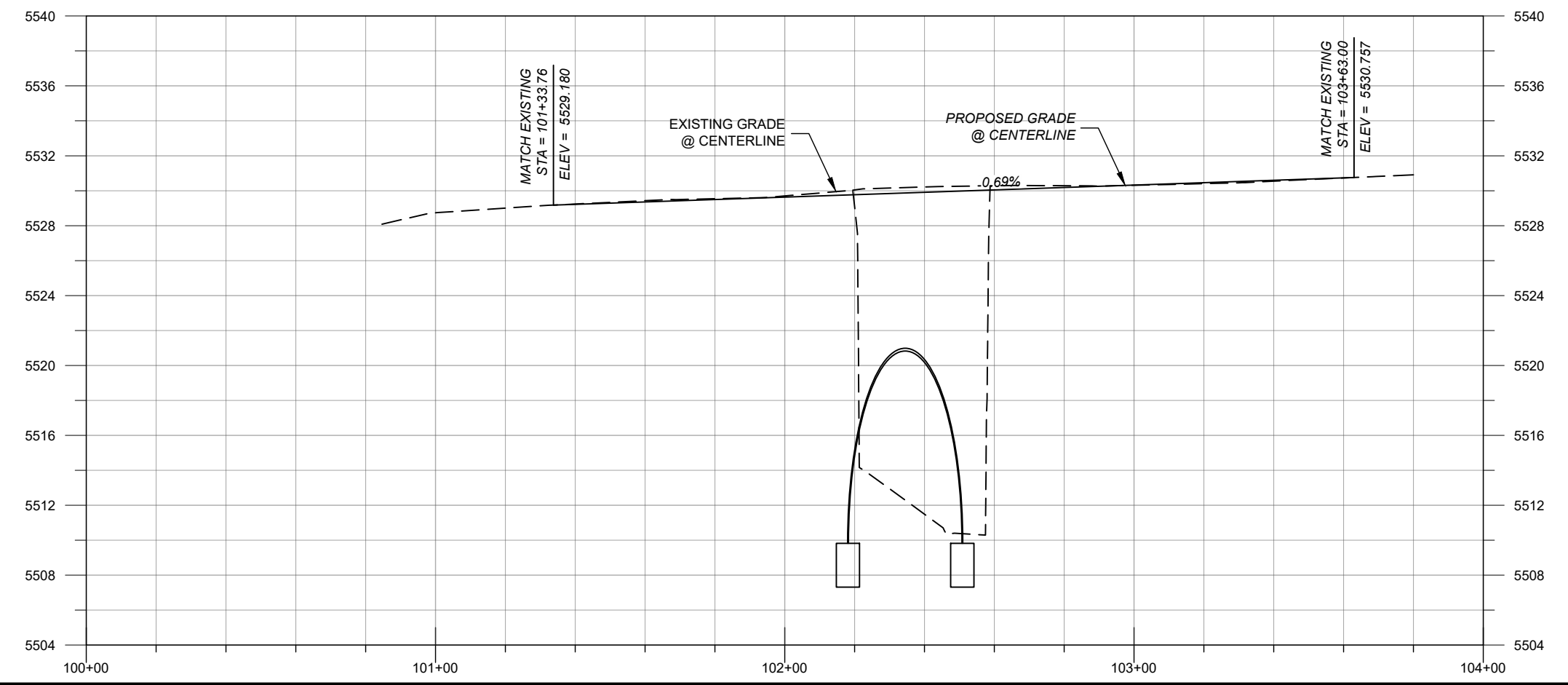
REMOVAL NOTES

- 1 REMOVE EXISTING ASPHALT PAVEMENT.
- 2 REMOVE EXISTING GUARDRAIL.
- 3 REMOVE EXISTING BOLLARD/POLE.
- 4 REMOVE AND DISPOSE EXISTING SIGN. SEE SHEET 07-3 FOR NEW SIGN DETAILS.



PLAN DRAWING SCALE: 1" = 40'

HORIZONTAL SCALE: 1" = 40' VERTICAL SCALE: 1" = 8'



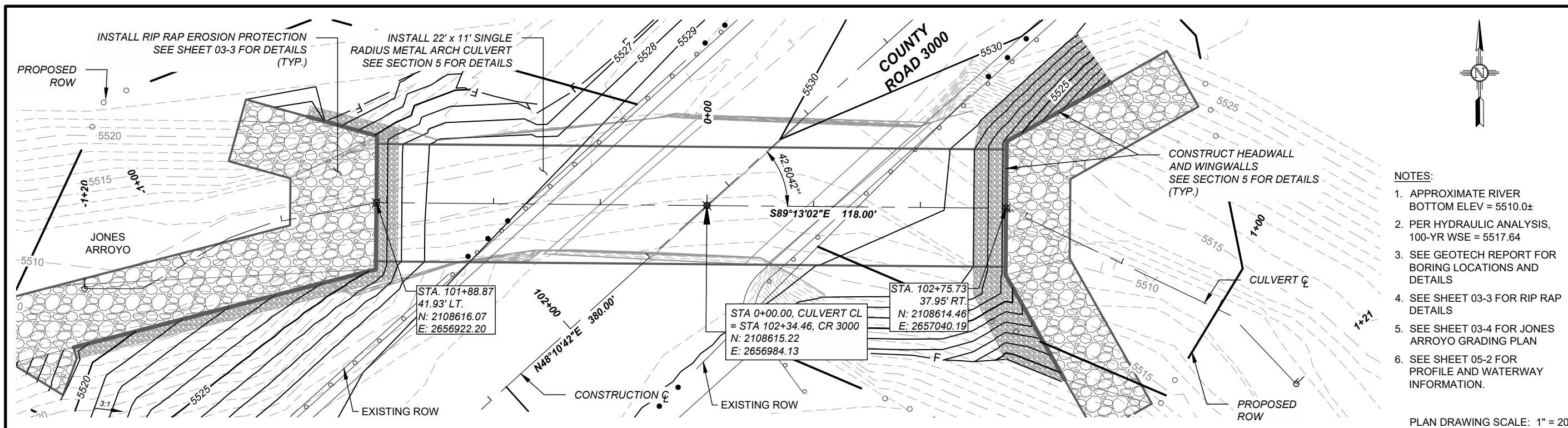
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CR 3000 OVER JONES ARROYO
BRIDGE 10136
ROADWAY PLAN AND PROFILE

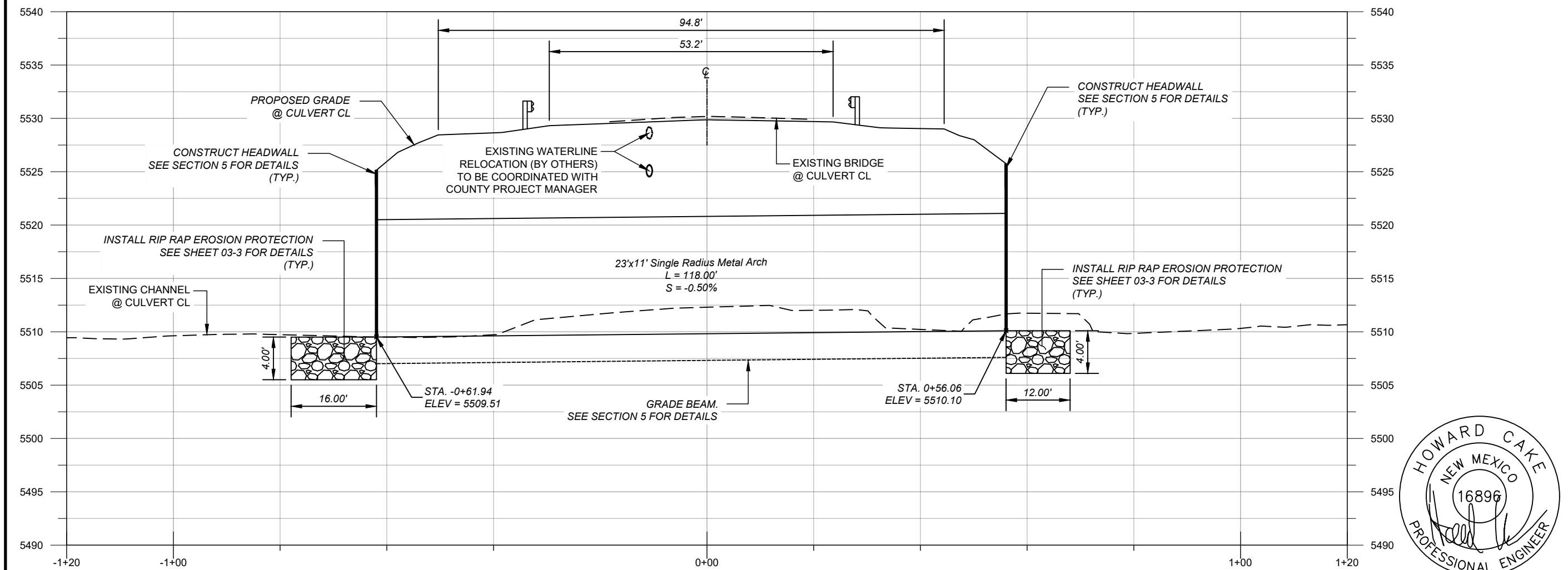


SAN JUAN COUNTY
21-22-23



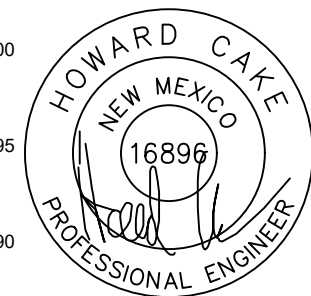
- NOTES:
1. APPROXIMATE RIVER BOTTOM ELEV = 5510.0±
 2. PER HYDRAULIC ANALYSIS, 100-YR WSE = 5517.64
 3. SEE GEOTECH REPORT FOR BORING LOCATIONS AND DETAILS
 4. SEE SHEET 03-3 FOR RIP RAP DETAILS
 5. SEE SHEET 03-4 FOR JONES ARROYO GRADING PLAN
 6. SEE SHEET 05-2 FOR PROFILE AND WATERWAY INFORMATION.

HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE: 1" = 10'

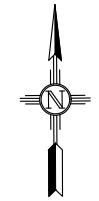
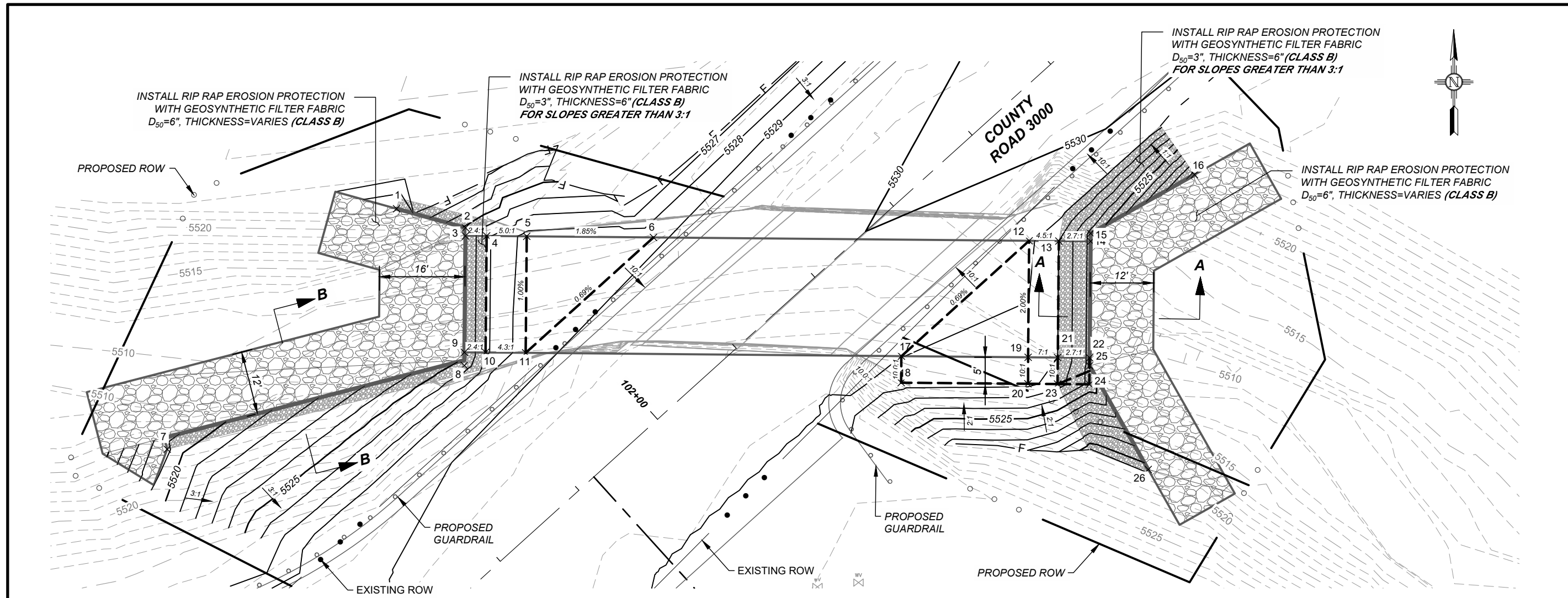


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CR 3000 OVER JONES ARROYO
BRIDGE 10136
CULVERT PLAN AND PROFILE



01/18/24



INSTALL RIP RAP EROSION PROTECTION WITH GEOSYNTHETIC FILTER FABRIC $D_{50}=6"$, THICKNESS=VARIES (CLASS B)

INSTALL RIP RAP EROSION PROTECTION WITH GEOSYNTHETIC FILTER FABRIC $D_{50}=3"$, THICKNESS=6" (CLASS B) FOR SLOPES GREATER THAN 3:1

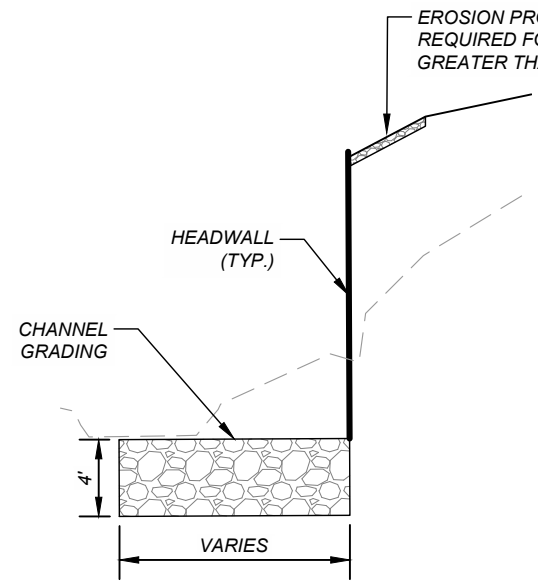
INSTALL RIP RAP EROSION PROTECTION WITH GEOSYNTHETIC FILTER FABRIC $D_{50}=3"$, THICKNESS=6" (CLASS B) FOR SLOPES GREATER THAN 3:1

INSTALL RIP RAP EROSION PROTECTION WITH GEOSYNTHETIC FILTER FABRIC $D_{50}=6"$, THICKNESS=VARIES (CLASS B)

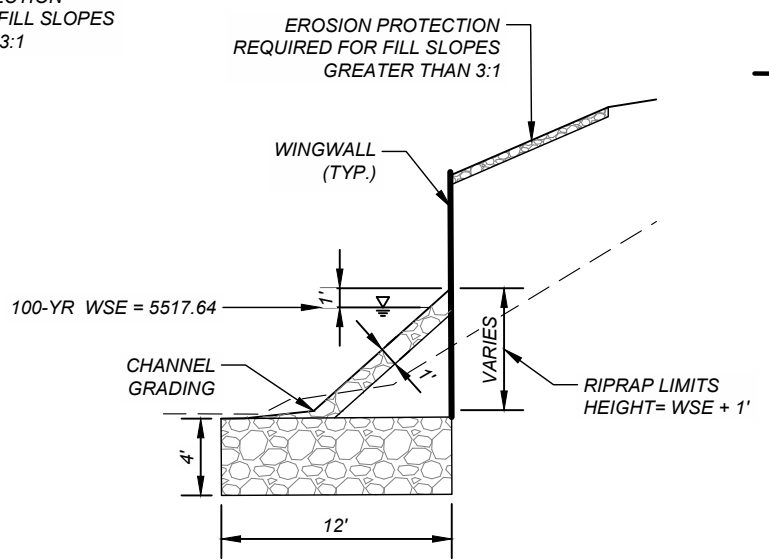
LEGEND

- X# GRADING POINTS
- GRADE BREAKS

NOTE:
1. SEE SHEET 03-4 FOR ADDITIONAL ARROYO GRADING.



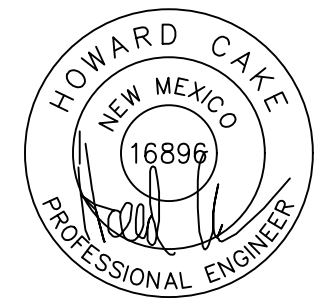
SECTION A-A
SCOUR PROTECTION (TYP.)



SECTION B-B
SCOUR PROTECTION (TYP.)

| Point Table | | | |
|-------------|-----------|--------------|--------------|
| Point # | Elevation | Northing | Easting |
| 1 | 0.00 | 2108632.2412 | 2656909.3771 |
| 2 | 0.00 | 2108628.5693 | 2656922.3682 |
| 3 | 5524.66 | 2108627.0356 | 2656922.3477 |
| 4 | 5526.82 | 2108627.0148 | 2656926.3473 |
| 5 | 5528.35 | 2108626.9115 | 2656933.9141 |
| 6 | 5528.79 | 2108626.5847 | 2656957.8332 |
| 7 | 0.00 | 2108587.0505 | 2656865.8641 |
| 8 | 0.00 | 2108602.5718 | 2656922.0130 |
| 9 | 5524.66 | 2108605.0715 | 2656922.0472 |
| 10 | 5526.82 | 2108605.0377 | 2656926.0468 |
| 11 | 5528.57 | 2108604.9135 | 2656933.6136 |
| 12 | 5529.23 | 2108625.6161 | 2657028.7349 |
| 13 | 5527.99 | 2108625.5396 | 2657034.3372 |
| 14 | 5525.25 | 2108625.4576 | 2657040.3367 |
| 15 | 0.00 | 2108626.9575 | 2657040.3571 |
| 16 | 0.00 | 2108637.9403 | 2657059.9946 |
| 17 | 5529.01 | 2108603.9449 | 2657004.5153 |

| Point Table | | | |
|-------------|-----------|--------------|--------------|
| Point # | Elevation | Northing | Easting |
| 18 | 5528.51 | 2108598.9454 | 2657004.4470 |
| 19 | 5528.79 | 2108603.6182 | 2657028.4344 |
| 20 | 5528.29 | 2108598.6186 | 2657028.3661 |
| 21 | 5528.00 | 2108603.5423 | 2657033.9911 |
| 22 | 5525.25 | 2108603.4597 | 2657040.0361 |
| 23 | 5527.49 | 2108598.5421 | 2657033.9684 |
| 24 | 5525.25 | 2108598.4602 | 2657039.9678 |
| 25 | 0.00 | 2108601.9598 | 2657040.0157 |
| 26 | 5519.60 | 2108582.3224 | 2657050.9984 |



01/18/24

| NO. | DESCRIPTION | DATE | BY |
|-----|-------------|------|----|
| 4 | | | |
| 3 | | | |
| 2 | | | |
| 1 | | | |

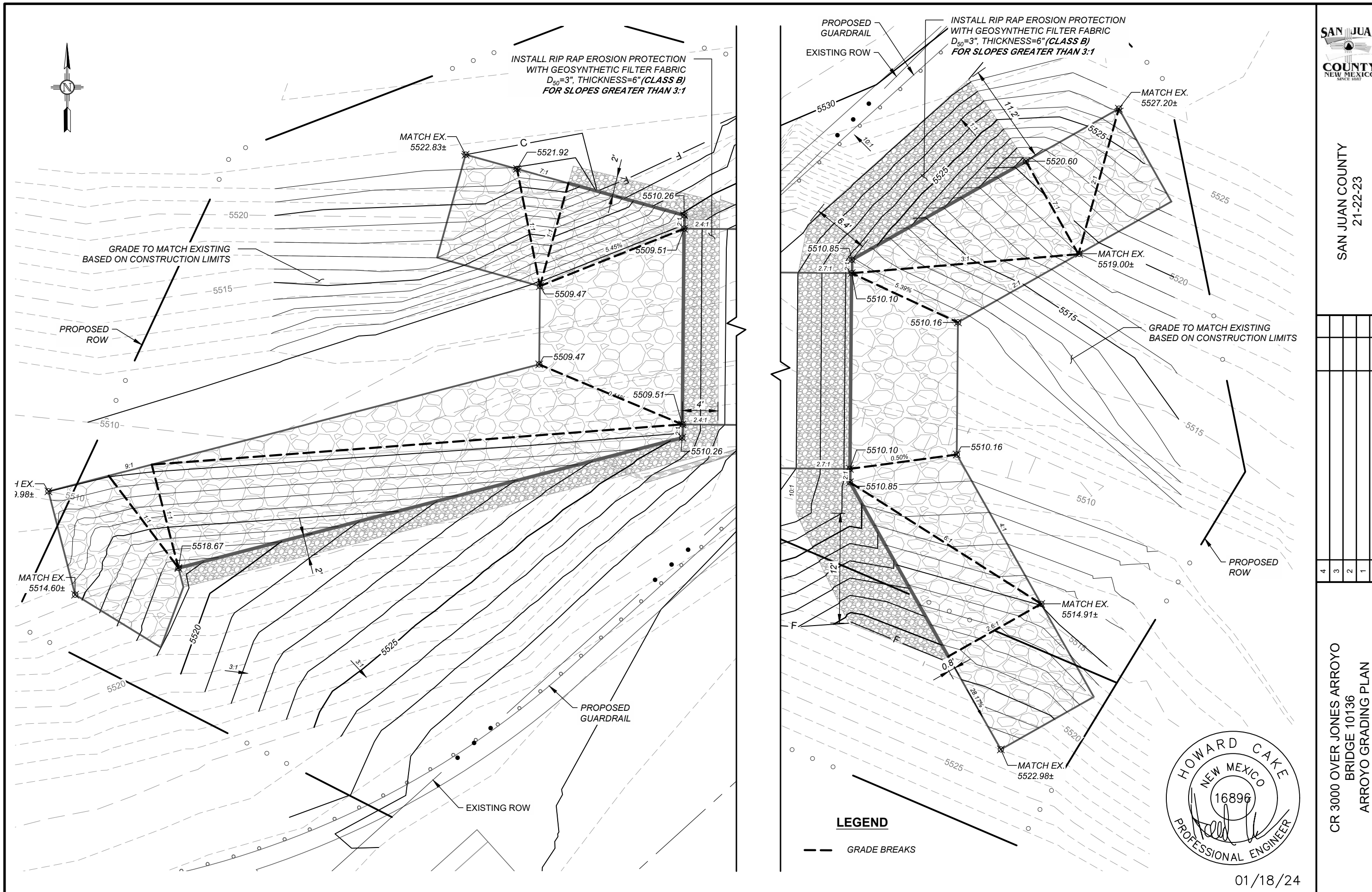
CR 3000 OVER JONES ARROYO
BRIDGE 10136
EROSION AND GRADING PLAN

| NO. | DESCRIPTION | DATE | BY |
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| 4 | | | |
| 3 | | | |
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| 1 | | | |
| NO. | | | |

CR 3000 OVER JONES ARROYO
BRIDGE 10136
ARROYO GRADING PLAN



01/18/24

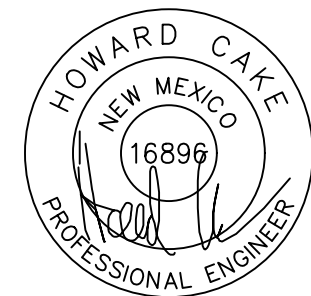




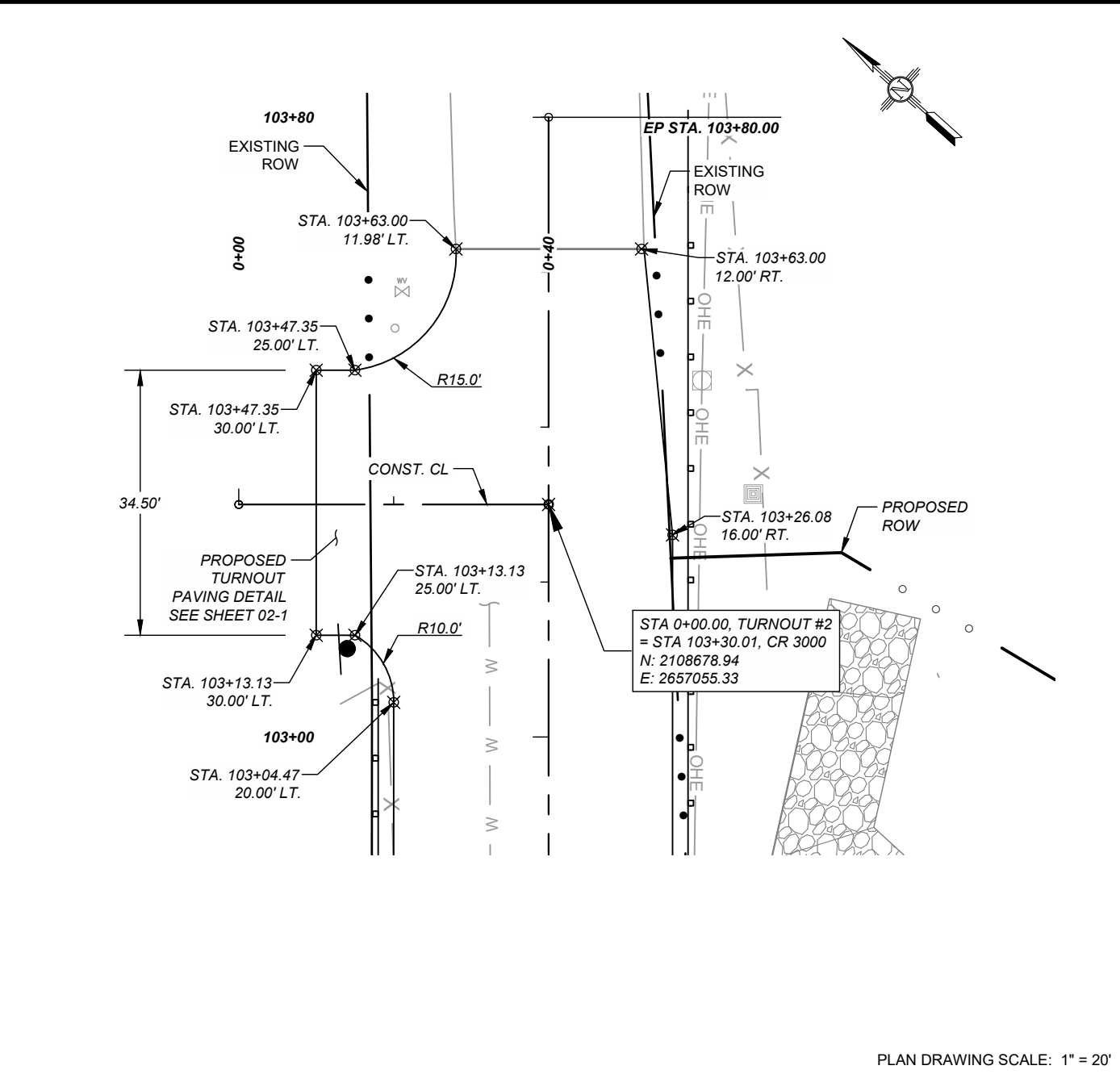
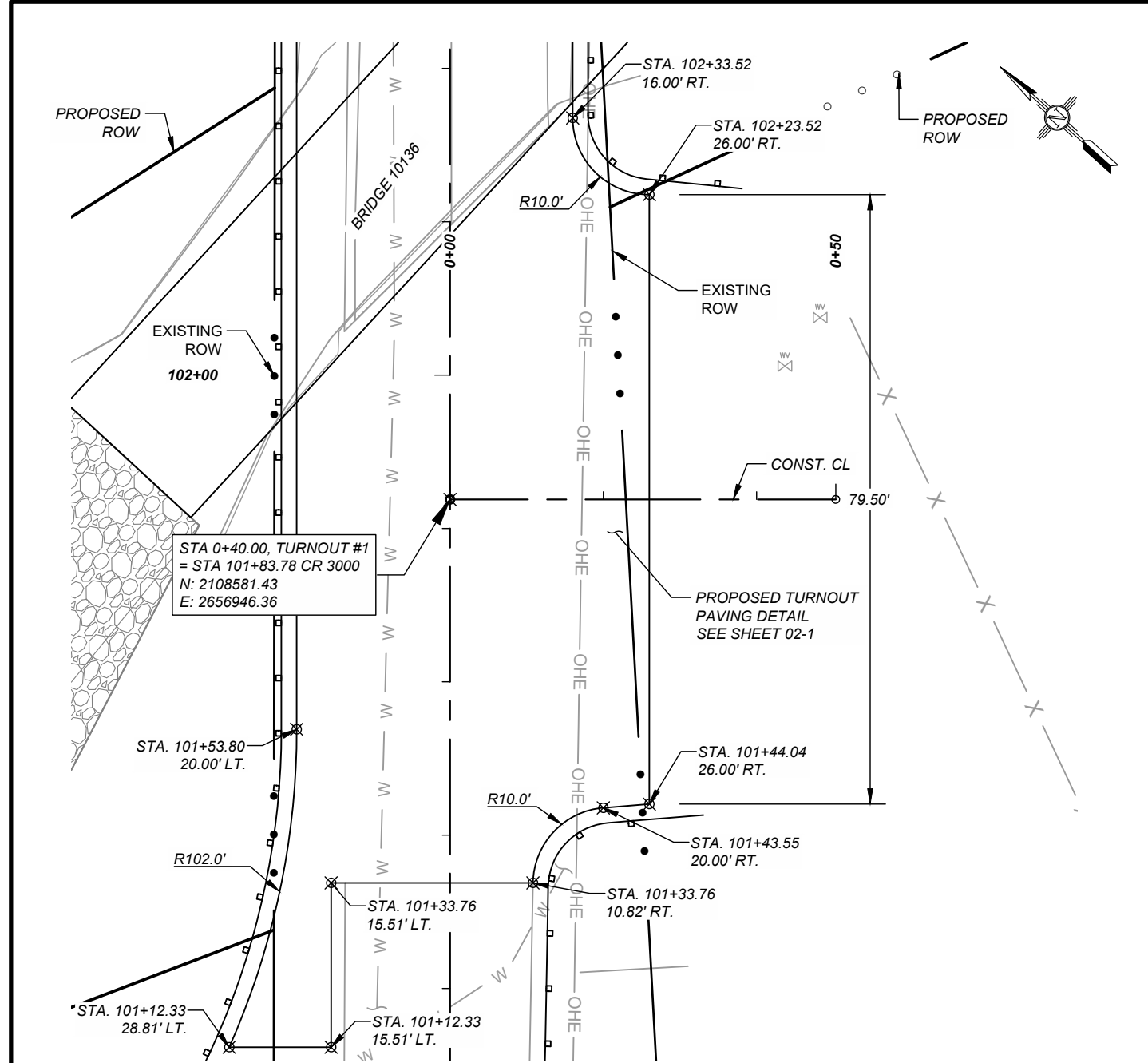
SAN JUAN COUNTY
21-22-23

| NO. | DATE | BY | DESCRIPTION |
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| 4 | | | |
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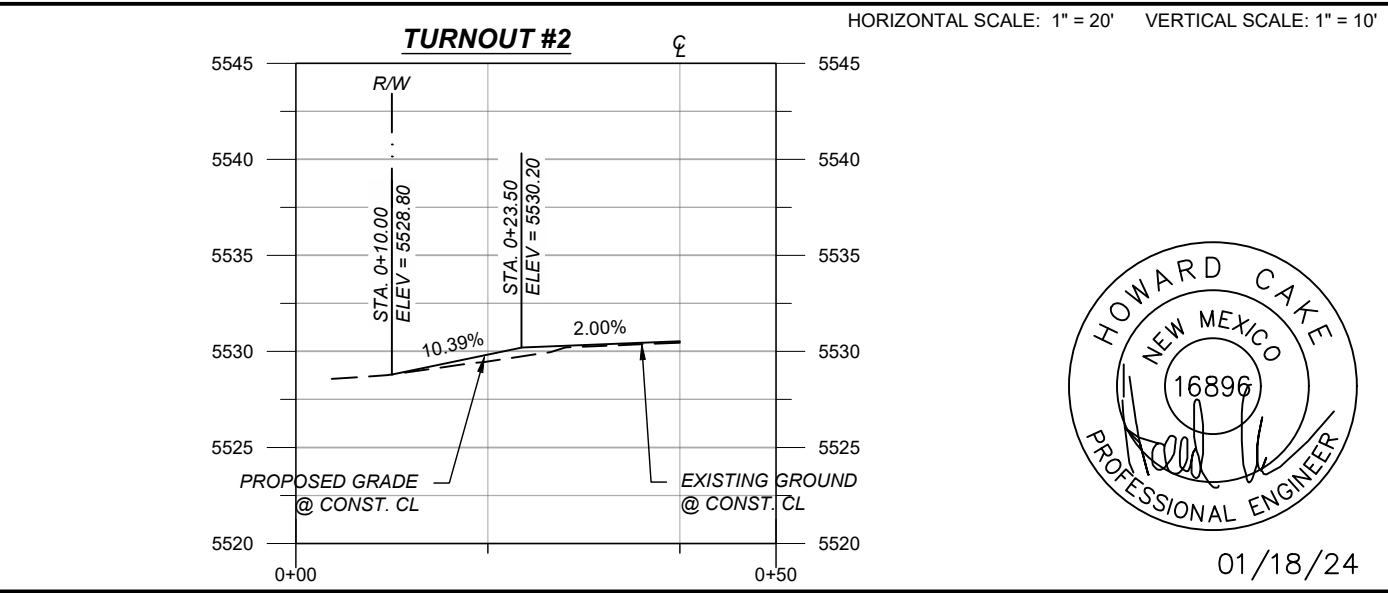
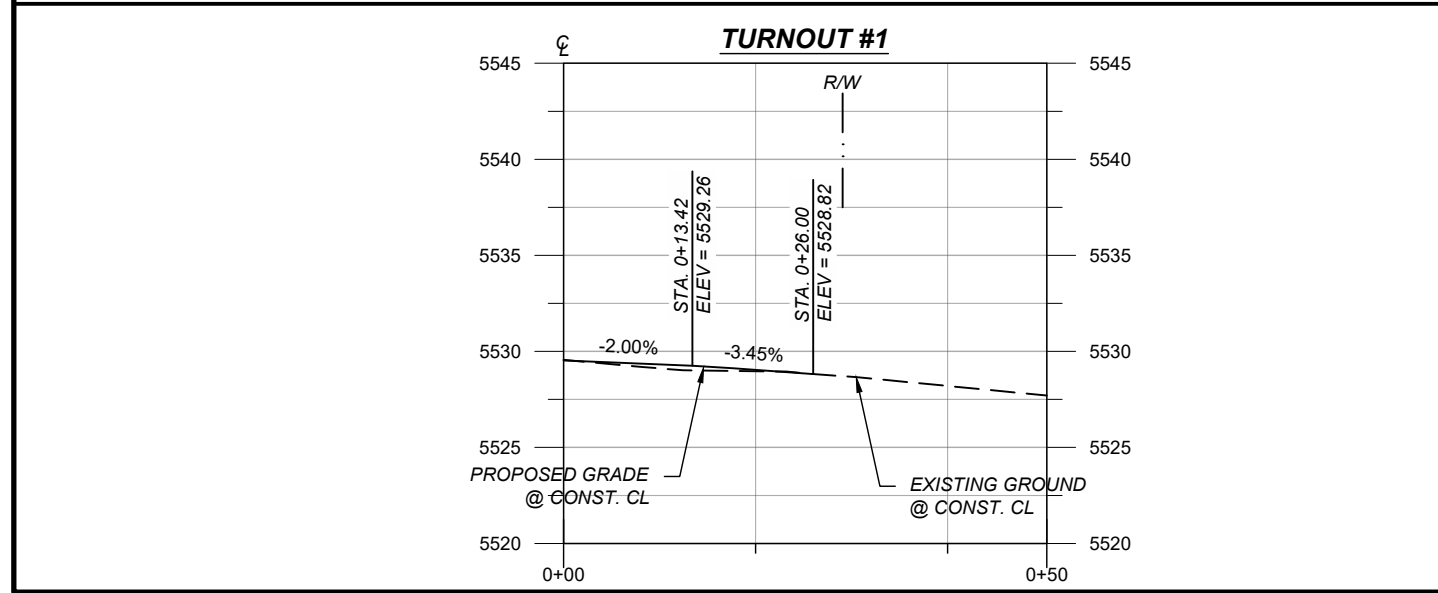
CR 3000 OVER JONES ARROYO
BRIDGE 10136
TURNOUT PLAN AND PROFILES



01/18/24



PLAN DRAWING SCALE: 1" = 20'



HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE: 1" = 10'



SAN JUAN COUNTY
21-22-23

GENERAL NOTES

- EXISTING BRIDGE NO. 3121 WAS BUILT IN 1970. THERE ARE NO AS-BUILTS AVAILABLE.
- FIELD VERIFY: CONTRACTOR SHALL FIELD VERIFY ELEVATIONS AND DETAILS WHICH WILL BE INVOLVED IN THE NEW CONSTRUCTION BEFORE PROCEEDING WITH THE WORK.
- EXISTING BRIDGE NO. 3121 IS TO BE REMOVED BY THE CONTRACTOR. THE EXISTING STEEL GIRDER BRIDGE IS TO BE REMOVED AND PROPERLY DISPOSED OF IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS, SECTION 601. THESE ACTIVITIES WILL BE PAID UNDER ITEM NO. 601000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS. ALL MATERIAL FROM THE EXISTING BRIDGE OTHER THAN THE SALVAGE MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF SUCH ITEMS IN AN ENVIRONMENTALLY RESPONSIBLE MANNER IN ACCORDANCE WITH ALL LOCAL, FEDERAL, AND TRIBAL REGULATIONS.
- BRIDGE NUMBER PLATES: THE CONTRACTOR SHALL FURNISH AND PLACE TWO BRIDGE NUMBER PLATES CONFORMING TO STANDARD DRAWING 543-09. SEE NUMBER PLATE PLACEMENT DETAIL FOR LOCATION ON W-BEAM.
- GENERAL CONDITIONS

THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT AND PERFORM ALL WORK AND SERVICES EXCEPT THOSE SET OUT AND FURNISHED BY THE OWNER, NECESSARY TO COMPLETE IN A SATISFACTORY MANNER THE SITE PREPARATION, EXCAVATION, FILLING, COMPACTION, GRADING AS SHOWN ON THE PLANS AND AS DESCRIBED THEREIN. THIS WORK SHALL CONSIST OF ALL MOBILIZATION, CLEARING AND GRADING, GRUBBING, STRIPPING, REMOVAL OF EXISTING MATERIAL UNLESS OTHERWISE STATED, PREPARATION OF THE LAND TO BE FILLED, FILLING OF THE LAND, SPREADING AND COMPACTION OF THE FILL, AND ALL SUBSIDIARY WORK NECESSARY TO COMPLETE THE GRADING OF THE CUT AND FILL AREAS TO CONFORM WITH THE LINES, GRADES, SLOPES, AND SPECIFICATIONS. THIS WORK IS TO BE ACCOMPLISHED UNDER THE OBSERVATION OF THE OWNER OR HIS DESIGNATED REPRESENTATIVE.

PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL EXAMINE, INVESTIGATE, AND INSPECT THE CONSTRUCTION SITE AS TO THE NATURE AND LOCATION OF THE WORK, AND THE GENERAL AND LOCAL CONDITIONS AT THE CONSTRUCTION SITE, INCLUDING WITHOUT LIMITATION, THE CHARACTER OF SURFACE OR SUBSURFACE CONDITIONS AND OBSTACLES TO BE ENCOUNTERED ON AND AROUND THE CONSTRUCTION SITE AND SHALL MAKE SUCH ADDITIONAL INVESTIGATION AS HE MAY DEEM NECESSARY FOR THE PLANNING AND PROPER EXECUTION OF THE WORK. IF CONDITIONS OTHER THAN THOSE INDICATED ARE DISCOVERED BY THE CONTRACTOR, THE OWNER SHALL BE NOTIFIED IMMEDIATELY. THE MATERIAL WHICH THE CONTRACTOR BELIEVES TO BE A CHANGED CONDITION SHALL NOT BE DISTURBED SO THAT THE OWNER CAN INVESTIGATE THE CONDITION.

ANY INSTALLATION GUIDANCE PROVIDED HEREIN SHALL BE ENDORSED BY THE ENGINEER OR SUPERCEDED BY THE ENGINEER'S PLANS AND SPECIFICATIONS.

- CORRUGATED METAL SINGLE RADIUS ARCH MANUFACTURER SHALL FABRICATE THE SINGLE RADIUS ARCH CULVERT AS SHOWN ON THE PLANS. FABRICATION SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-761 AND SHALL CONSIST OF PLATES, FASTENERS, AND APPURTENANT ITEMS.

PLATE THICKNESS, END TREATMENT, AND FOUNDATION ATTACHMENT SHALL BE AS INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS AND CONDITIONS PRIOR TO ORDERING MATERIALS.

- METAL PLATE WINGWALLS AND HEADWALLS SHALL BE FABRICATED TO SUIT THE GEOMETRY INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS AND CONDITIONS PRIOR TO ORDERING MATERIALS.

8. DIMENSIONS

THE PROPOSED STRUCTURE SHALL BE A SINGLE RADIUS ARCH WITH THE FOLLOWING DIMENSIONS:

SPAN: 22'-0" RISE: 11'-0" GAGE: 8

ALL PLAN DIMENSIONS ON THE CONTRACT DRAWINGS ARE MEASURED IN A TRUE HORIZONTAL PLAN UNLESS OTHERWISE NOTED.

DESIGN DATA

DESIGN IS IN ACCORDANCE WITH THE 2020 AASHTO LRFD SPECIFICATIONS, 9TH EDITION AND CURRENT INTERIM SPECIFICATIONS.

DESIGN STRESSES:

- STRUCTURAL STEEL: STRUCTURAL STEEL AASHTO M-270
Fy = 50 KSI, GRADE 50
- STRUCTURAL CONCRETE: f_c = 3000 PSI AT 28 DAYS
- REINFORCING STEEL: Fy = 60 KSI, GRADE 60
n = 9

DESIGN LOADS:

- LIVE LOAD: HL-93 AND NMDOT P327-13 PERMIT TRUCK
- WEARING SURFACE: 30 PSF ALLOWANCE FOR FUTURE SURFACES

HORIZONTAL EARTH PRESSURE (EQUIVALENT FLUID PRESSURE):

- ACTIVE PRESSURE: 30 PCF
- AT REST PRESSURE: 60 PCF
- PASSIVE PRESSURE: 350 PCF
- WIND VELOCITY: 115 MPH
- SEISMIC ZONE: ZONE 1

SHEET INDEX

- 5-1 - GENERAL NOTES
- 5-2 - PLAN AND PROFILE
- 5-3 - EXISTING BRIDGE REMOVALS
- 5-4 - FOUNDATION LAYOUT
- 5-5 - DRILLED SHAFT & GRADE BEAM DETAILS
- 5-6 - WINGWALL & HEADWALL DETAILS
- 5-7 - BACKFILL DETAILS

LOAD CAPACITY RATINGS

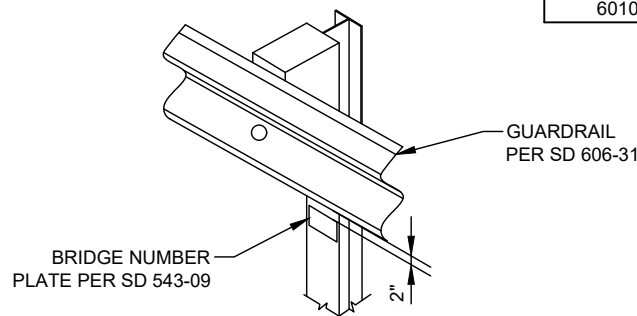
PROVIDE LOAD CAPACITY CALCULATIONS AND RATINGS USING THE LOAD & RESISTANCE FACTOR RATING (LRFR) METHOD AND IN ACCORDANCE WITH AASHTO'S MANUAL FOR BRIDGE EVALUATION, CURRENT EDITION. PERFORM LOAD RATING AND PROVIDE RESULTS FOR THE HL-93 VEHICLE AS WELL AS THE EV2 AND EV3 EMERGENCY VEHICLES AS DEFINED BY THE FEDERAL HIGHWAY ADMINISTRATION.

MINIMUM ACCEPTABLE RATINGS:
HL-93: 1.0 (INVENTORY) AND 1.3 (OPERATING)
EV2: 1.0 (OPERATING ONLY)
EV3: 1.0 (OPERATING ONLY)

MAKE ANY NECESSARY DESIGN CHANGES TO ACHIEVE THESE VALUES. ENSURE THAT THE CALCULATIONS ARE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW MEXICO.

BRIDGE NO. 10136 REPLACES
BRIDGE NO. 3121

| ESTIMATED QUANTITIES | | | |
|----------------------|--|------|--------|
| ITEM NO. | DESCRIPTION OF ITEM | UNIT | TOTAL |
| 210002 | MAJOR STRUCTURE EXCAVATION | C.Y. | 370 |
| 210003 | MAJOR STRUCTURE BACKFILL | C.Y. | 1,010 |
| 502030 | DRILLED SHAFT FOUNDATION 30" DIAMETER | L.F. | 544 |
| 502600 | OBSTRUCTION REMOVAL | L.F. | 54 |
| 505000 | CROSS HOLE SONIC LOGGING CONSULTANT TESTING | EACH | 16 |
| 505011 | LOW STRAIN INTEGRITY CONSULTANT TESTING | EACH | 4 |
| 511030 | STRUCTURAL CONCRETE, CLASS AA | C.Y. | 66 |
| 540060 | REINFORCING BARS GRADE 60 | LB. | 91,990 |
| 571XXX | 22'-0" X 11'-0" R STRUCTURAL PLATE PIPE ARCH | L.F. | 118 |
| 601000 | REMOVAL OF STRUCTURES AND OBSTRUCTIONS | L.S. | L.S. |



BRIDGE NUMBER PLATE PLACEMENT

| 601000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS | |
|---|--|
| DESCRIPTION | |
| EXISTING BRIDGE DECK | |
| EXISTING BRIDGE RAIL | |
| EXISTING STEEL GIRDERS | |
| EXISTING STEEL H-PILES | |
| EXISTING TIMBER RETAINING WALLS | |



01/18/24
BRIDGE NO. 10136

| NO. | DESCRIPTION | DATE | BY |
|-----|-------------|------|----|
| 4 | | | |
| 3 | | | |
| 2 | | | |
| 1 | | | |

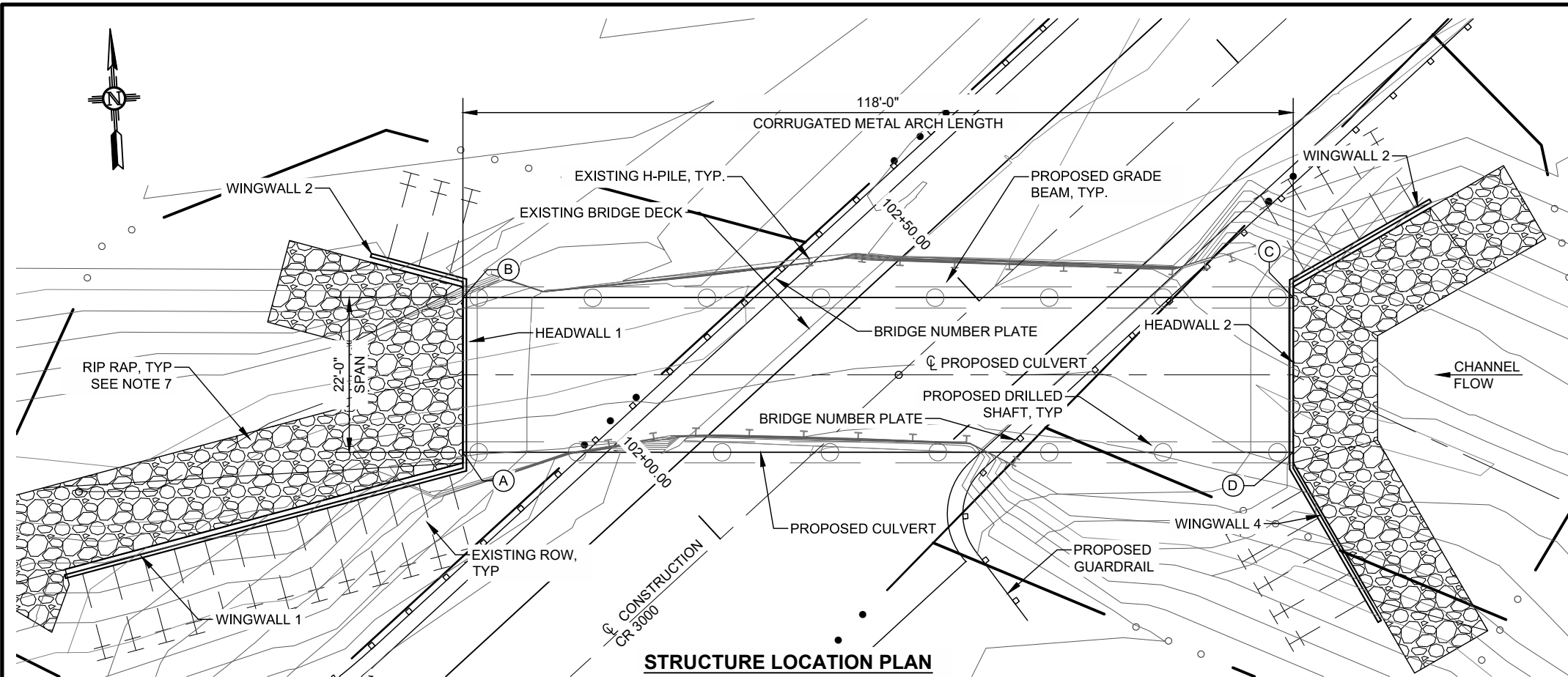
CR 3000 OVER JONES ARROYO
BRIDGE 10136
GENERAL NOTES



SAN JUAN COUNTY
21-22-23

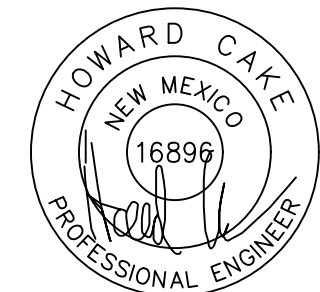
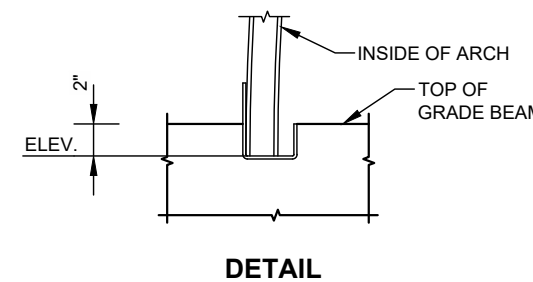
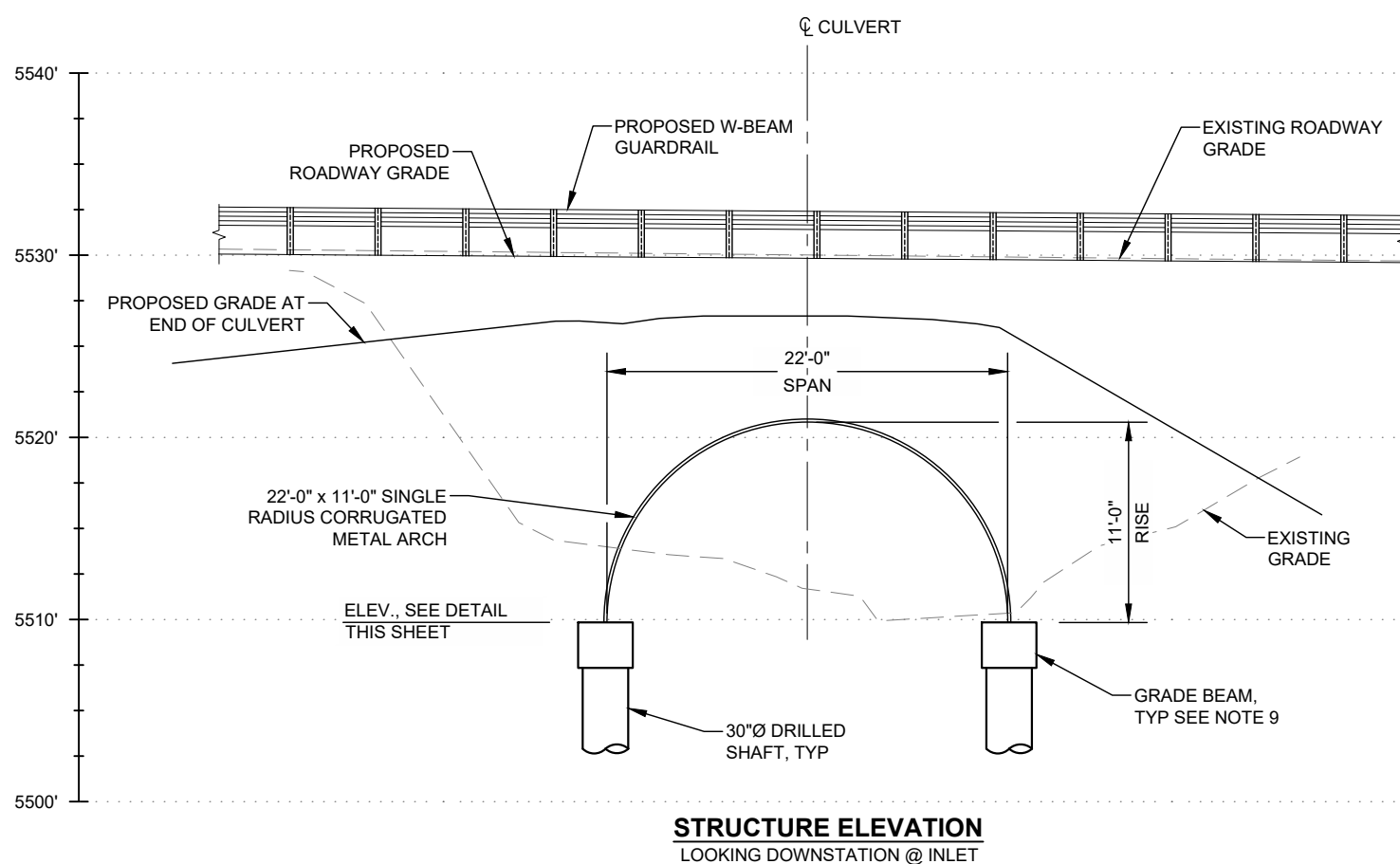
NOTES:

1. ALL STATIONS AND OFFSETS ARE BASED ON PROPOSED C OF CONSTRUCTION.
2. EXISTING BRIDGE STRUCTURE LOCATION IS PER NEW SURVEY DATA.
3. SEE TRANSVERSE SECTION SHEET 2-1 FOR FINAL LANE CONFIGURATION.
4. INFORMATION REGARDING THE BORE HOLES, THE NATURE OF THE SOILS, AND THE SITE CONDITIONS CAN BE OBTAINED FROM THE FINAL FOUNDATION REPORT: NO 222-4142 PREPARED BY GEOMAT INC.
5. SEE SHEET 3-4 FOR DESIGN GRADING ALONG WINGWALLS.
6. CULVERT CORNER POINTS ARE LOCATED AT EXTERIOR EDGES OF CULVERT.
7. SEE SHEET 3-3 FOR RIP RAP LIMITS AND DETAILS.
8. METAL HEADWALLS AND WINGWALLS SHALL BE INCIDENTAL TO ITEM NO. 571XXX - 22'-0" X 11'-0" R STRUCTURAL PLATE ARCH.
9. CULVERT GRADE BEAMS SHALL BE PAID FOR UNDER ITEMS NO. 511030 - STRUCTURAL CONCRETE, CLASS AA AND 540060 - REINFORCING BARS GRADE 60.



| CULVERT CORNER POINTS | | | |
|-----------------------|-----------|----------|---------|
| PT | STA. | OFFSET | ELEV. |
| (A) | 101+81.43 | 33.83 LT | 5509.34 |
| (B) | 101+96.32 | 50.02 LT | 5509.34 |
| (C) | 102+83.17 | 29.85 RT | 5509.93 |
| (D) | 102+68.28 | 46.05 RT | 5509.93 |

| WATERWAY DATA | | | |
|---------------------------------|--------------|----------|----------|
| WATERWAY DATA | 50 YEAR | 100 YEAR | 500 YEAR |
| NAME OF WATERWAY | JONES ARROYO | | |
| DRAINAGE AREA (SQ.MI.) | 3.82 | | |
| WATER SURFACE ELEVATION (FT) | 5516.82 | 5517.64 | 5519.87 |
| DISCHARGE (CFS) | 931 | 1,129 | 1,677 |
| AVERAGE VELOCITY OF FLOW (FT/S) | 6.23 | 6.73 | 7.72 |
| TOTAL SCOUR (FT) | - | 13.8 | 16.8 |



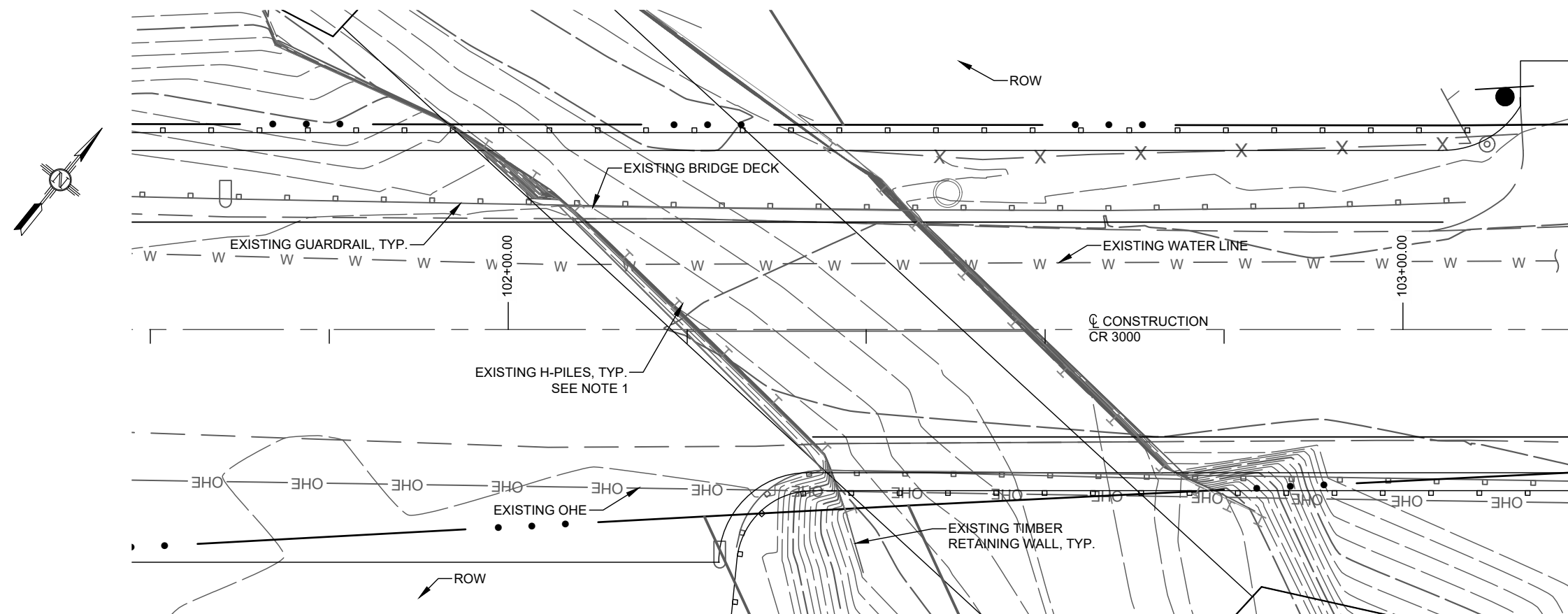
01/18/24
BRIDGE NO. 10136

| NO. | DESCRIPTION | DATE | BY |
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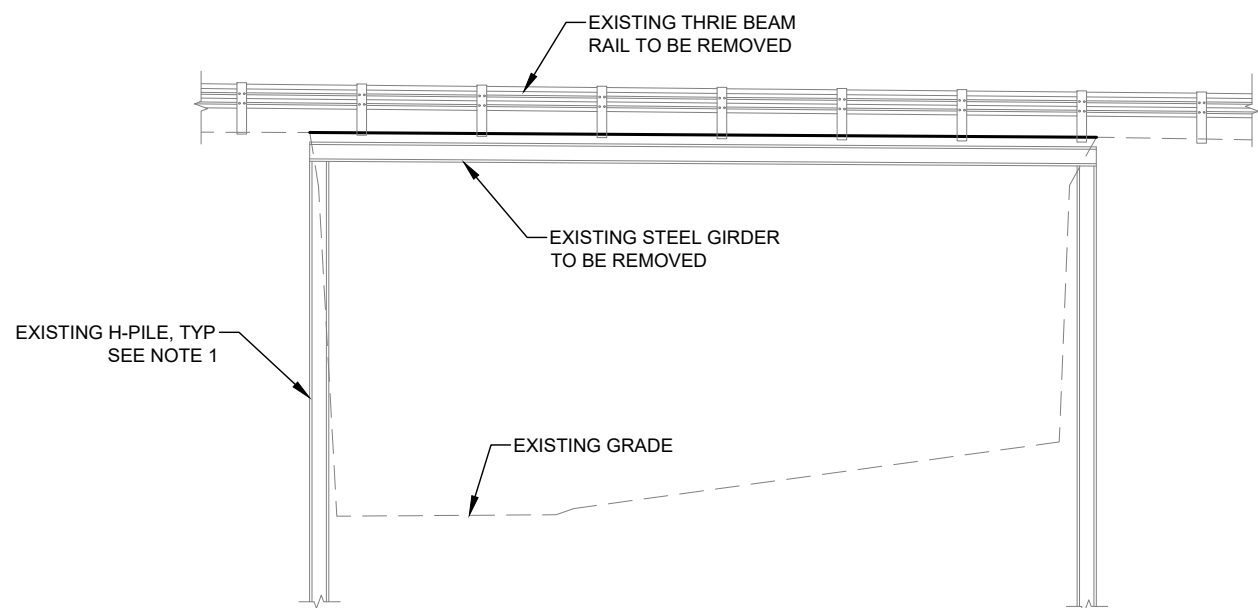
CR 3000 OVER JONES ARROYO
BRIDGE 10136
PLAN AND PROFILE



SAN JUAN COUNTY
21-22-23



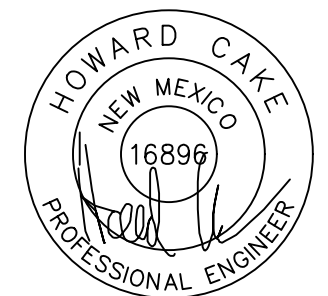
EXISTING BRIDGE PLAN



EXISTING BRIDGE ELEVATION

NOTES:

- EXISTING SUBSTRUCTURE SHALL BE REMOVED AND CUT OFF 2'-0" BELOW GROUND SURFACE. WORK SHALL BE PAID FOR UNDER ITEM 601000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS.



01/18/24
BRIDGE NO. 10136

| NO. | DESCRIPTION | DATE | BY |
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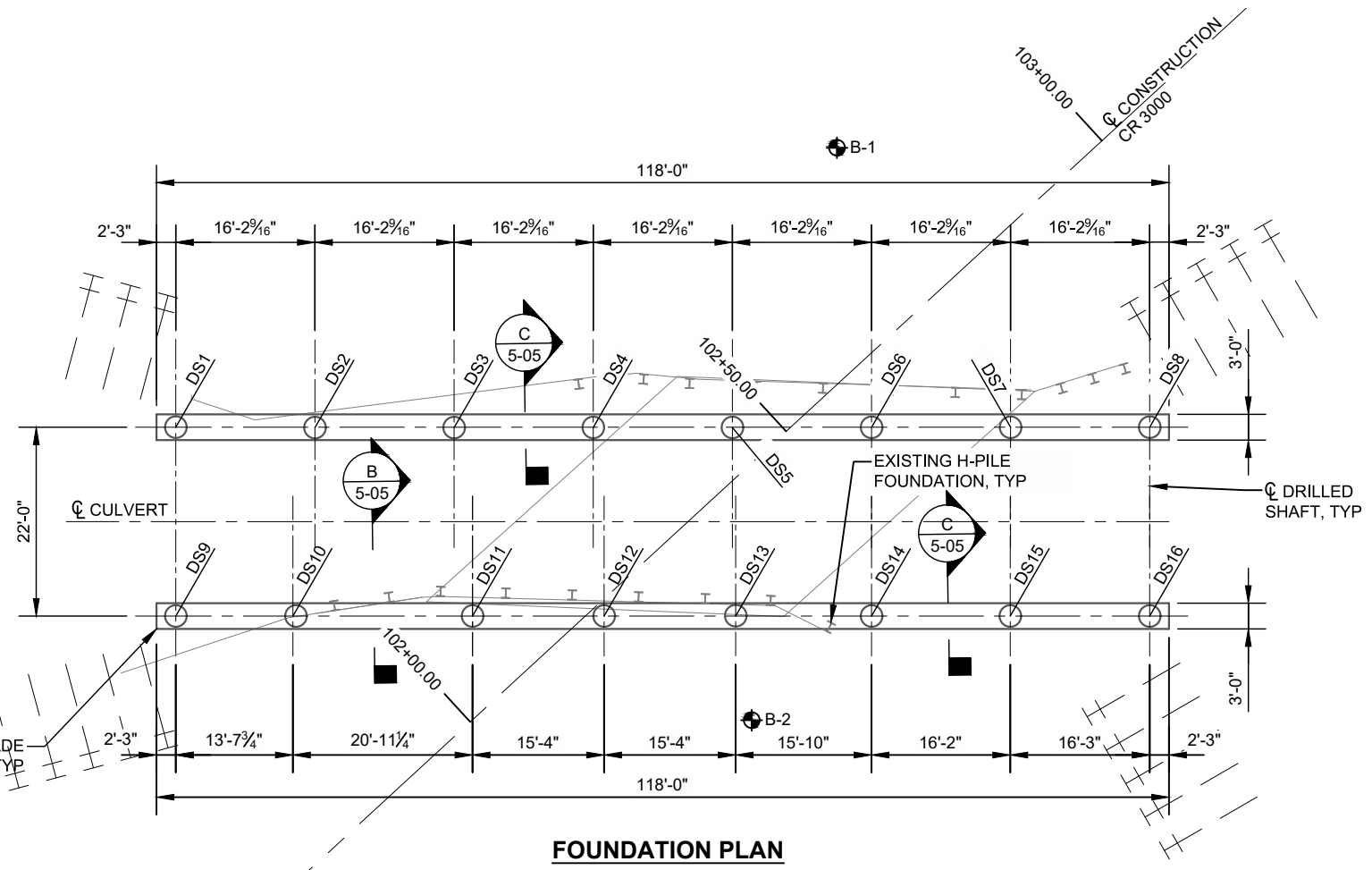
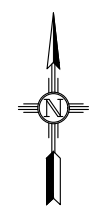
CR 3000 OVER JONES ARROYO
BRIDGE 10136
EXISTING BRIDGE REMOVALS



SAN JUAN COUNTY
21-22-23

| NO. | DESCRIPTION | DATE | BY |
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CR 3000 OVER JONES ARROYO
BRIDGE 10136
FOUNDATION LAYOUT



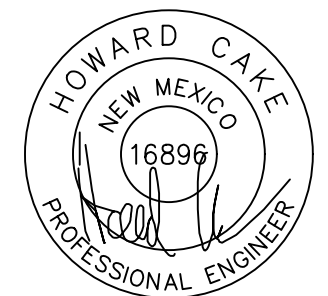
FOUNDATION PLAN

FOUNDATION NOTES:

1. DRILLED SHAFT CONSTRUCTION JOINTS NOT SHOWN ON THE PLANS WILL REQUIRE THE APPROVAL OF THE BRIDGE FOUNDATION ENGINEER PRIOR TO CONSTRUCTION.
2. THE GEOTECHNICAL INFORMATION SHOWN ON THIS SHEET WAS TAKEN DIRECTLY FROM GEOTECHNICAL REPORT SUBMITTED TO THE STRUCTURAL ENGINEER.
3. SEE SHEET 5-05 FOR SECTIONS B AND C.

SUBSTRUCTURE DATA

| DRILLED SHAFT NO. | DRILLED SHAFT DIAMETER (IN) | STATION | OFFSET | TOP ELEVATION (FT) | BOTTOM ELEVATION (FT) | ESTIMATED LENGTH (FT) | SERVICE LOAD (KIPS) | STRENGTH LOAD (KIPS) | NOMINAL GEOTECHNICAL RESISTANCE (KIPS) | FACTORED GEOTECHNICAL RESISTANCE (KIPS) |
|-------------------|-----------------------------|-----------|----------|--------------------|-----------------------|-----------------------|---------------------|----------------------|--|---|
| 1 | 30 | 101+97.98 | 48.50 LT | 5507.10 | 5473.10 | 34 | 152 | 195 | 410 | 560 |
| 2 | 30 | 102+09.87 | 37.48 LT | 5507.20 | 5473.20 | 34 | 305 | 396 | 410 | 560 |
| 3 | 30 | 102+21.82 | 26.52 LT | 5507.29 | 5473.29 | 34 | 328 | 434 | 410 | 560 |
| 4 | 30 | 102+33.76 | 15.55 LT | 5507.39 | 5473.39 | 34 | 343 | 455 | 410 | 560 |
| 5 | 30 | 102+45.70 | 4.58 LT | 5507.48 | 5473.48 | 34 | 346 | 458 | 410 | 560 |
| 6 | 30 | 102+57.64 | 6.39 RT | 5507.58 | 5473.58 | 34 | 343 | 455 | 410 | 560 |
| 7 | 30 | 102+69.58 | 17.36 RT | 5507.67 | 5473.67 | 34 | 321 | 420 | 410 | 560 |
| 8 | 30 | 101+81.52 | 28.33 RT | 5507.10 | 5473.10 | 34 | 148 | 191 | 410 | 560 |
| 9 | 30 | 101+83.08 | 32.31 LT | 5507.20 | 5473.20 | 34 | 122 | 157 | 410 | 560 |
| 10 | 30 | 101+93.13 | 23.07 LT | 5507.27 | 5473.27 | 34 | 346 | 453 | 410 | 560 |
| 11 | 30 | 102+08.54 | 8.90 LT | 5507.35 | 5473.35 | 34 | 403 | 538 | 410 | 560 |
| 12 | 30 | 102+19.83 | 1.48 RT | 5507.43 | 5473.43 | 34 | 322 | 432 | 410 | 560 |
| 13 | 30 | 102+31.13 | 11.84 RT | 5507.58 | 5473.58 | 34 | 329 | 436 | 410 | 560 |
| 14 | 30 | 102+42.77 | 22.58 RT | 5507.67 | 5473.67 | 34 | 312 | 407 | 410 | 560 |
| 15 | 30 | 102+54.67 | 33.52 RT | 5507.76 | 5473.76 | 34 | 305 | 395 | 410 | 560 |
| 16 | 30 | 102+66.63 | 44.53 RT | 5507.86 | 5473.86 | 34 | 150 | 194 | 410 | 560 |



01/18/24
BRIDGE NO. 10136

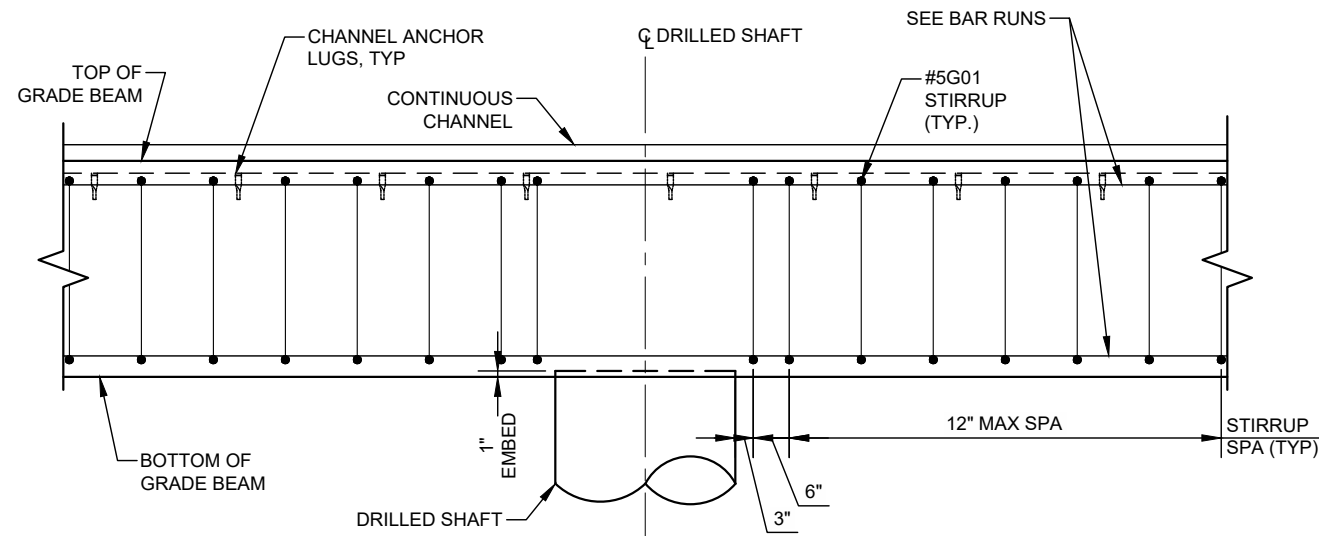
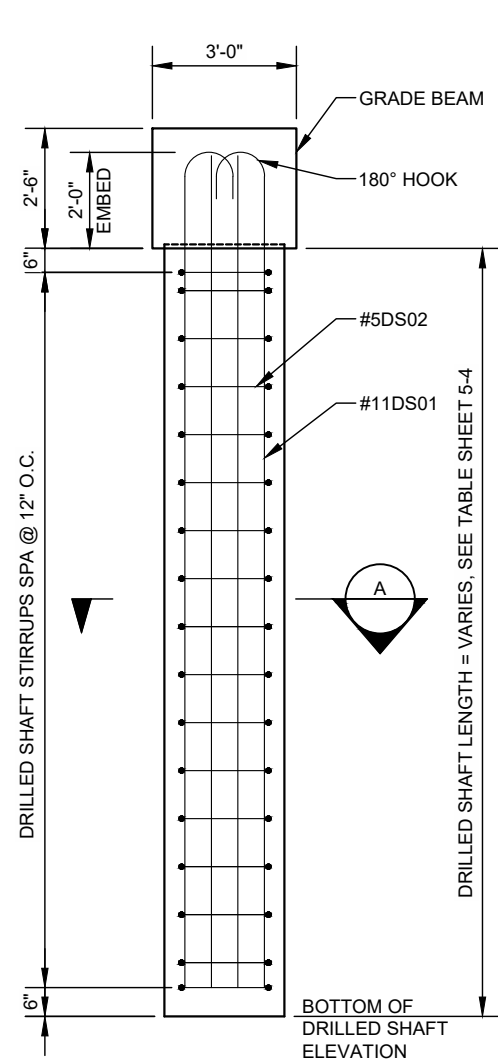
DESIGNED BY: HC DRAWN BY: CS CHECKED BY: HC PLOT DATE: 1/17/2024



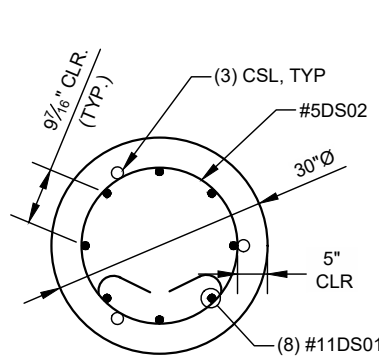
SAN JUAN COUNTY
21-22-23

NOTES:

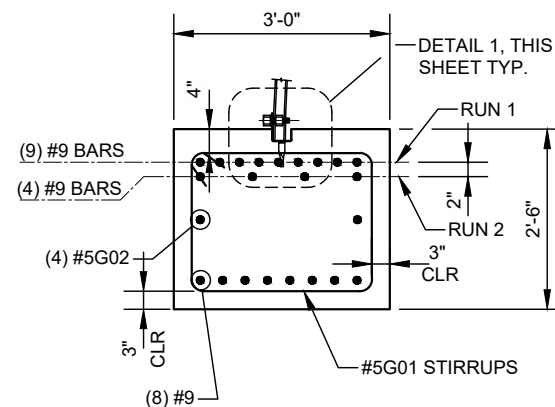
- SEE SHEET 5-4 FOR ELEVATIONS AND LOCATION OF DRILLED SHAFTS. SHAFT LENGTHS WERE SUPPLIED BY THE GEOTECHNICAL ENGINEER AT GEOMAT, INC.
- TOP OF DRILLED SHAFT SHALL BE EMBEDDED INTO THE ABUTMENT AND PIER CAPS 1".
- ALL CROSS HOLE LOGGING (CSL) TUBES SHALL BE TWO INCH INSIDE DIAMETER BLACK SCHEDULE 40 STEEL. USE THREADED PVC CAP BOTTOMS AND NON-THREADED PVC CAP TOPS. THE STEEL TUBES SHALL BE CONNECTED WITH THREADED STEEL COUPLERS CLEANED FROM DEBRIS. THE CSL TUBES MUST BE FREE FROM LEAKS HAVING A WATERTIGHT SEAL. THE STEEL TUBES SHALL BE SECURELY FASTENED TO ALTERNATE TIES TYPICAL. THE CSL TUBES SHALL BE FILLED WITH WATER IMMEDIATELY AFTER CONCRETE PLACEMENT.
- SEE SHEET 5-04 FOR SECTIONS B AND C.



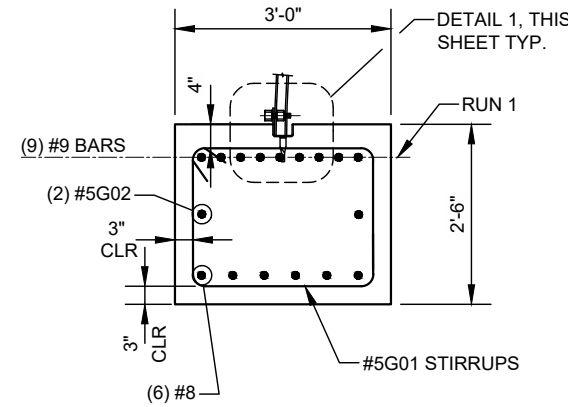
TYPICAL GRADE BEAM ELEVATION @ DRILLED SHAFT



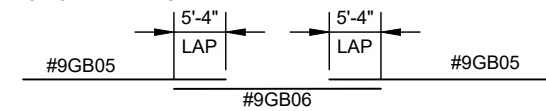
SECTION A



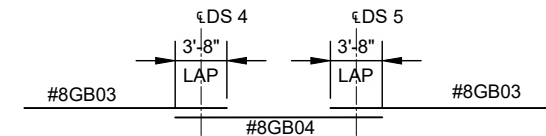
SECTION B



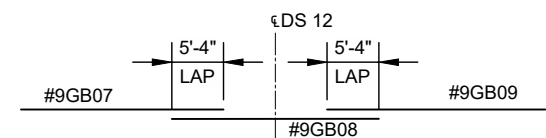
SECTION C



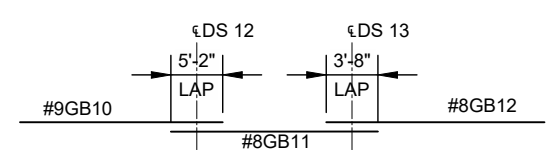
RUN 1 - TOP RUN NORTH FOUNDATION



RUN 2 - BOT RUN NORTH FOUNDATION

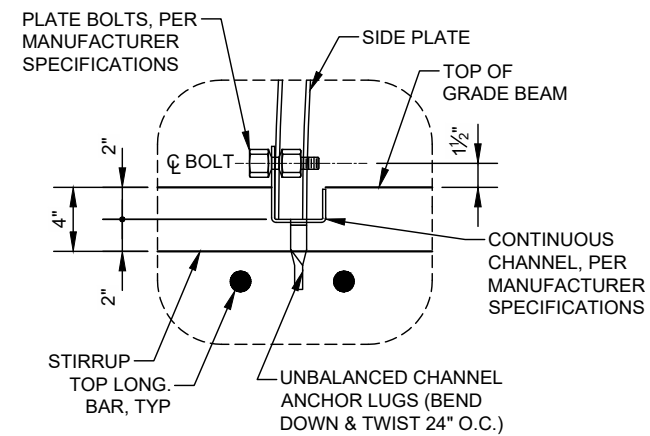


RUN 3 - TOP RUN SOUTH FOUNDATION



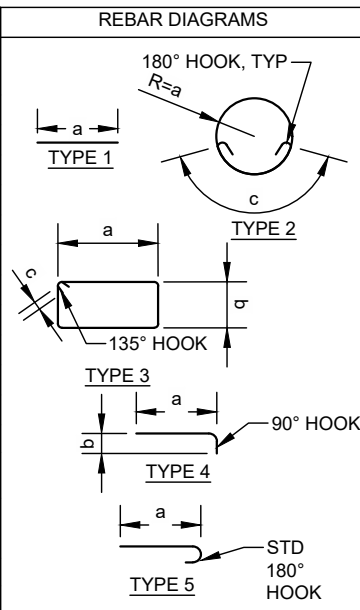
RUN 4 - BOT RUN SOUTH FOUNDATION

NOTE:
BLOCKING OR SHIMMING SIDE PLATES TO ACHIEVE AND MAINTAIN PROPER BOTTOM SPAN AND SIDE RETURN ANGLE MAY BE REQUIRED.



DETAIL 1 - ANCHOR

| GRADE BEAM | | | | | | | | | | |
|---------------|------|------|----------|-----------|------------|--------|-------|---|---|---------|
| MARK | SIZE | TYPE | NO. BARS | LENGTH | DIMENSIONS | | | | | REMARKS |
| | | | | | a | b | c | d | e | |
| #5GB01 | 5 | 3 | 220 | 16'-4" | 2'-6" | 1'-11" | 3'-9" | | | |
| #5GB02 | 5 | 1 | 8 | 120'-0" | 60'-0" | | | | | |
| #8GB03 | 8 | 1 | 12 | 105'-0" | 52'-6" | | | | | |
| #8GB04 | 8 | 1 | 6 | 40'-0" | 20'-0" | | | | | |
| #9GB05 | 9 | 4 | 18 | 120'-0" | 58'-5" | 1'-7" | | | | |
| #9GB06 | 9 | 4 | 9 | 22'-4" | 11'-2" | | | | | |
| #9GB07 | 9 | 1 | 13 | 92'-8" | 44'-9" | 1'-7" | | | | |
| #9GB08 | 9 | 1 | 13 | 50'-0" | 25'-0" | | | | | |
| #9GB09 | 9 | 1 | 13 | 120'-0" | 58'-5" | 1'-7" | | | | |
| #9GB10 | 9 | 1 | 8 | 109'-0" | 54'-6" | | | | | |
| #8GB11 | 8 | 1 | 8 | 39'-6" | 19'-9" | | | | | |
| #8GB12 | 8 | 1 | 6 | 104'-2" | 52'-1" | | | | | |
| DRILLED SHAFT | | | | | | | | | | |
| MARK | SIZE | TYPE | NO. BARS | LENGTH | DIMENSIONS | | | | | REMARKS |
| | | | | | a | b | c | d | e | |
| #11DS01 | 11 | 5 | 256 | 37'-1" | 35'-6" | | | | | |
| #5DS02 | 5 | 2 | 848 | 7'-6 1/2" | 0'-10" | 90° | | | | |



| NO. | DESCRIPTION | DATE | BY |
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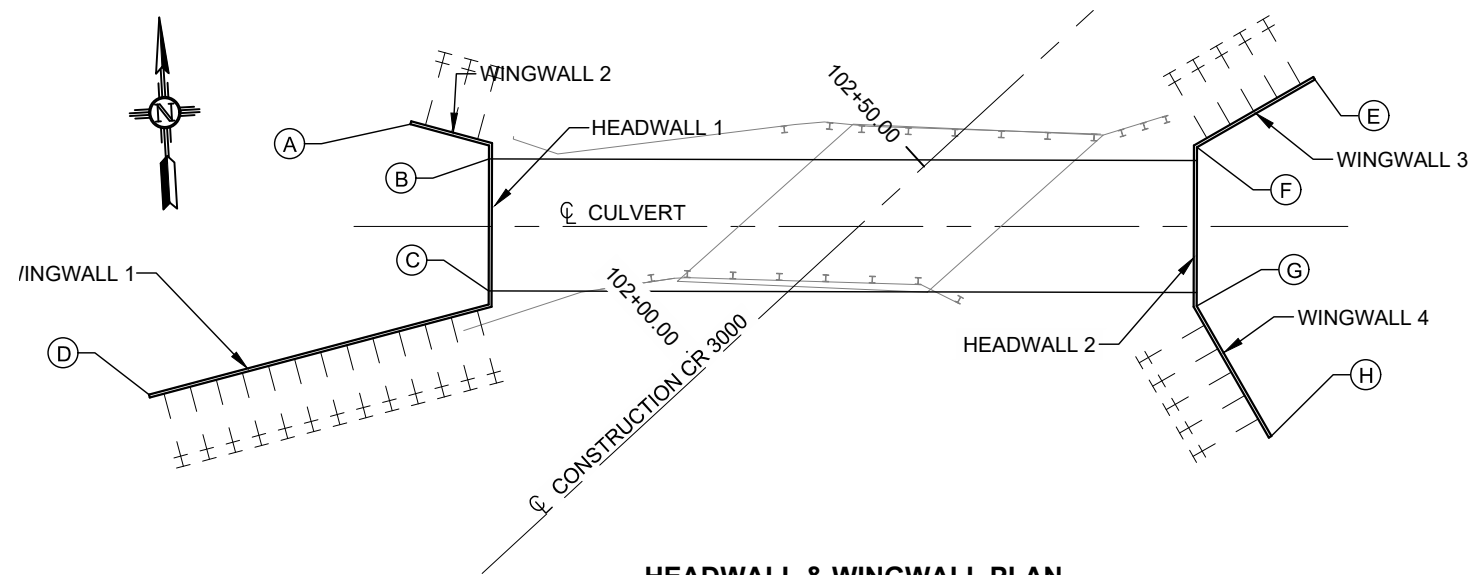
CR 3000 OVER JONES ARROYO
BRIDGE 10136
DRILLED SHAFT & GRADE BEAM DETAILS



01/18/24
BRIDGE NO. 10136

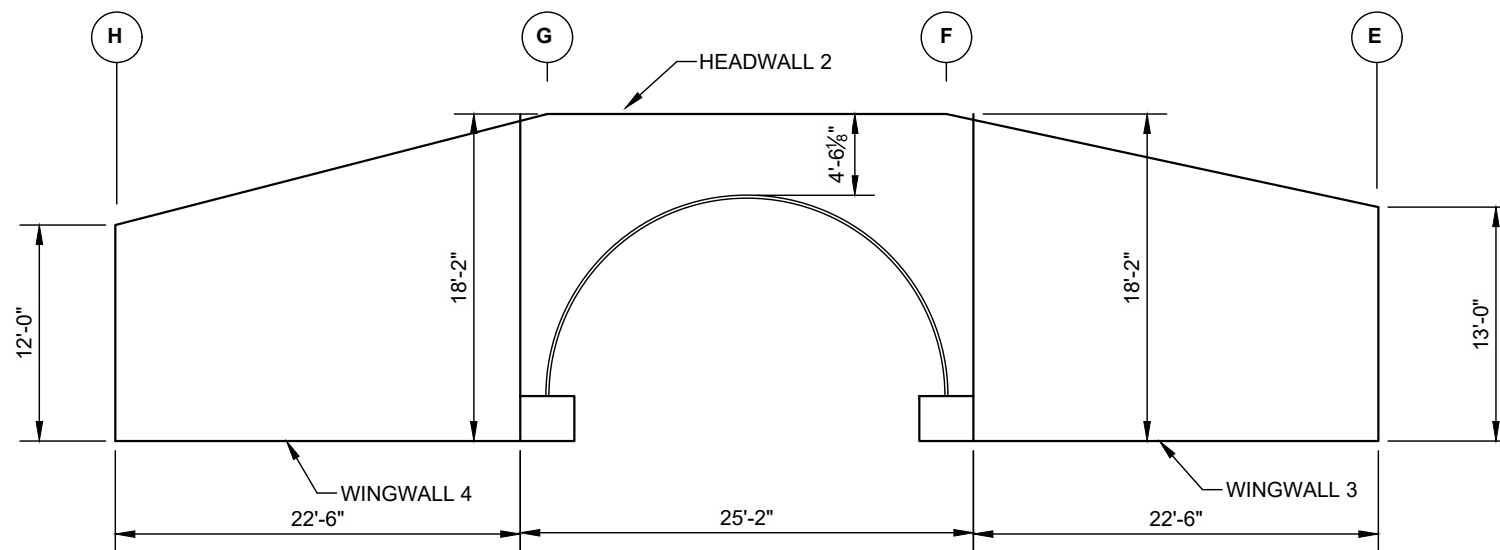


SAN JUAN COUNTY
21-22-23

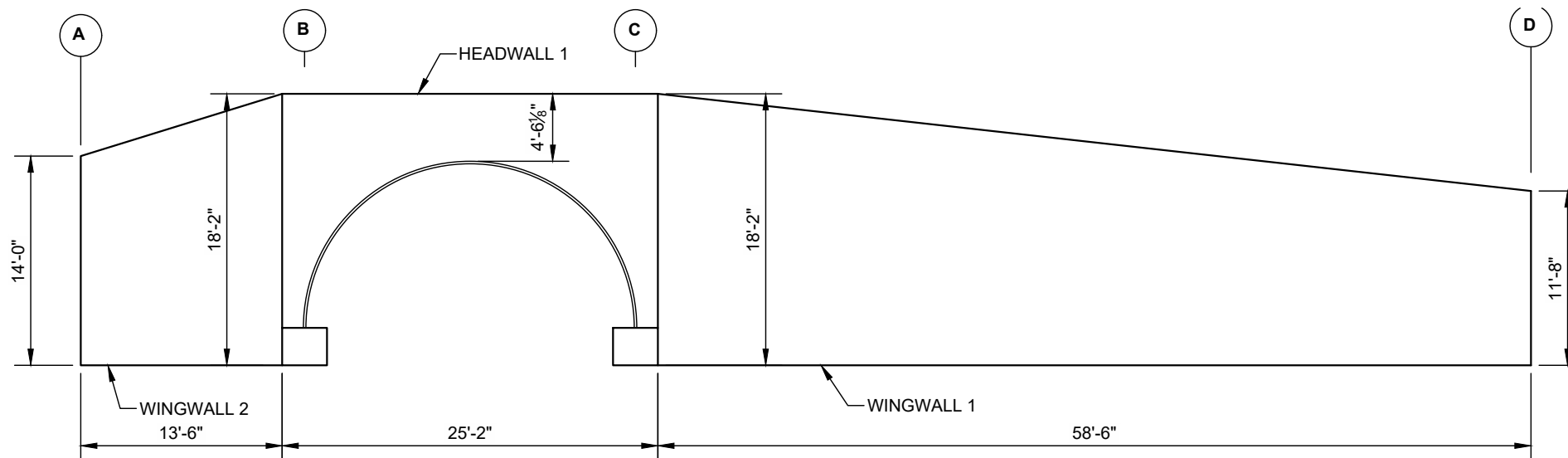


| WINGWALL LAYOUT | | |
|-----------------|------------|------------|
| PT | NORTHING | EASTING |
| (A) | 2108631.15 | 2656907.91 |
| (B) | 2108627.07 | 2656922.35 |
| (C) | 2108605.07 | 2656922.05 |
| (D) | 2108590.34 | 2656863.88 |
| (E) | 2108637.66 | 2657062.16 |
| (F) | 2108625.45 | 2657040.34 |
| (G) | 2108603.46 | 2657040.02 |
| (H) | 2108581.64 | 2657052.24 |

HEADWALL & WINGWALL PLAN



CULVERT INLET ELEVATION



CULVERT OUTLET ELEVATION



01/18/24
BRIDGE NO. 10136

| NO. | DESCRIPTION | DATE | BY |
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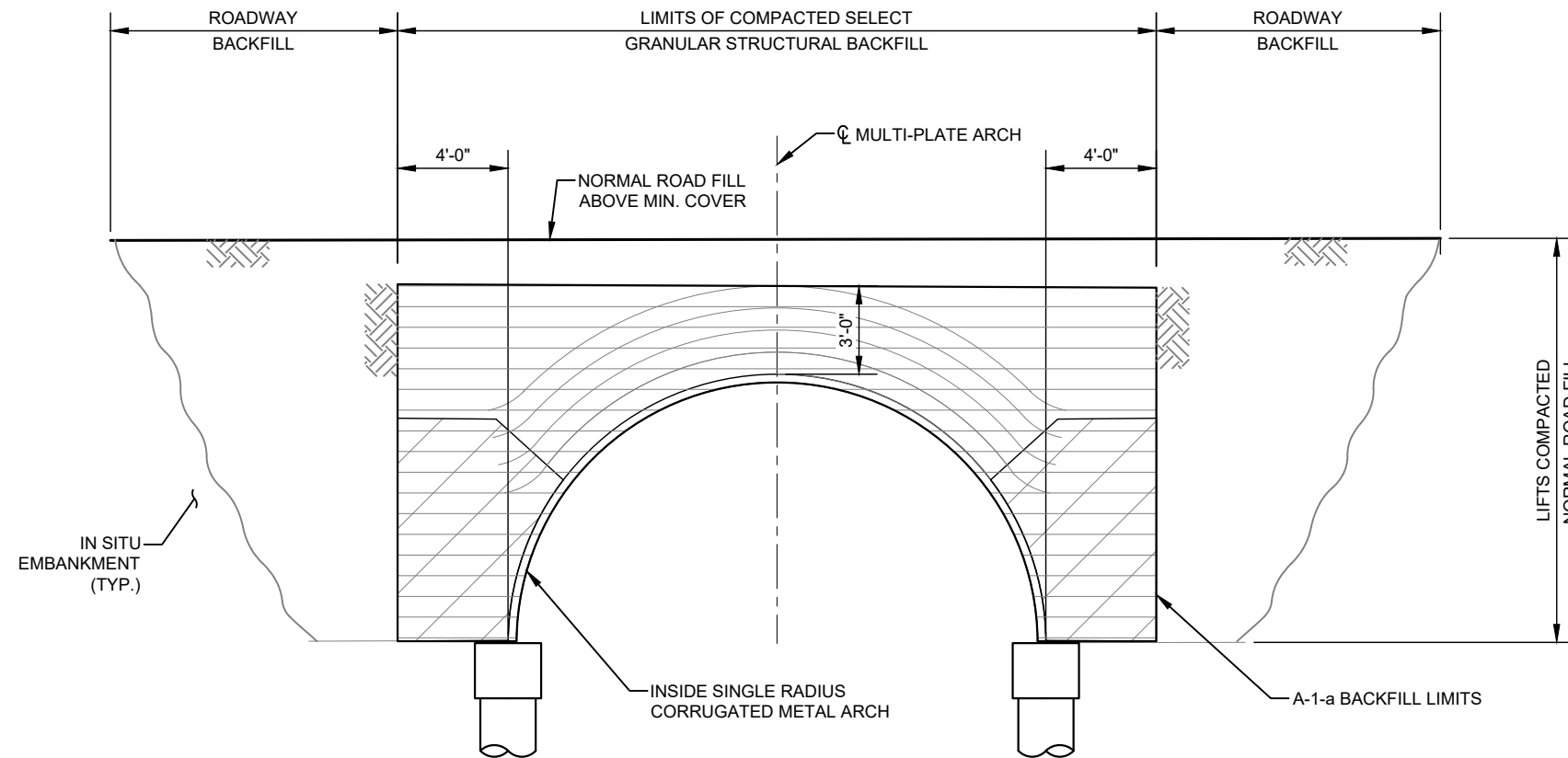
CR 3000 OVER JONES ARROYO
BRIDGE 10136
WINGWALL & HEADWALL DETAILS



SAN JUAN COUNTY
21-22-23




NOTES:

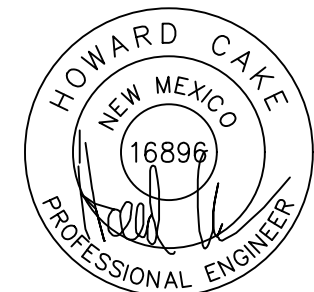
1. ALL SELECT GRANULAR BACKFILL TO BE PLACED IN BALANCE FASHION IN THIN LIFTS (6"-8" LOOSE TYPICALLY) AND COMPACTED TO 90% DENSITY PER AASHTO T-99.
2. COMPLETE AND REGULAR MONITORING OF THE ARCH IS NECESSARY DURING ALL BACKFILLING STEPS.
3. PREVENT EXCESSIVE DISTORTION OF SHAPE AS NECESSARY BY VARYING COMPACTION METHODS AND EQUIPMENT.



SECTION

LEGEND:

-  CRITICAL BACKFILL ZONE, PRESSURE ON SOIL GREATEST HERE.
-  INITIAL LIFTS OVER CROWN OF STRUCTURE AS INDICATED BY SHADED AREA TO BE COMPACTED TO REQUIRED DENSITY WITH HAND OPERATED EQUIPMENT OR WITH SMALL TRACTOR (D-4 OR SMALLER) DRAWN EQUIPMENT.
-  A-1-a BACKFILL MATERIAL PER ITEM NO. 210003 - MAJOR STRUCTURE BACKFILL.



01/18/24
BRIDGE NO. 10136

| NO. | DESCRIPTION | DATE | BY |
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CR 3000 OVER JONES ARROYO
BRIDGE 10136
BACKFILL DETAILS

SIGNING AND STRIPING GENERAL NOTES

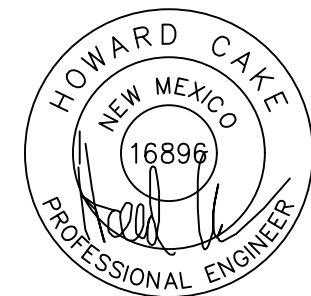
1. ALL REGULATORY, WARNING, SPECIAL, AND GUIDE SIGNS SHALL COMPLY WITH THE REQUIREMENTS DESIGNATED BY PROJECT ENGINEER AND MANAGER. LEGEND AND BACKGROUND TO BE SAME SHEETING TYPE.
2. ONLY 0.125 INCH THICK ALUMINUM PANEL SIGNS ARE PERMITTED FOR WARNING AND REGULATORY SIGNS.
3. ANTI-GRAFFITI COATING, WITH UV INHIBITOR, SHALL BE APPLIED ON ALL REGULATORY, WARNING, GUIDE, AND SPECIAL SIGNS.
4. QUANTITIES MAY VARY AS FIELD CONDITIONS DICTATE, THE CONTRACTOR WILL BE PAID FOR ACTUAL QUANTITIES USED.
5. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH N.M. STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION (LATEST EDITION) AND ANY APPLICABLE SPECIAL PROVISION AND/OR SUPPLEMENTAL SPECIFICATIONS. THE DEVICES SHALL COMPLY WITH THE CURRENT EDITION OF THE MUTCD WITH REVISIONS.
6. EACH SIGN FACE SHOWN ON PLANS SHALL MEET THE SPECIFICATIONS FOUND IN THE STANDARD HIGHWAY SIGNS MANUAL (CURRENT EDITION) FOR PROPER ARRANGEMENT, SPACING OF LETTERS, LETTER HEIGHT, SYMBOLS AND BORDERS FOR THE SPECIFIED SIZE AND MESSAGE AS SHOWN ON PLANS. ALL SPECIAL SIGN FACE DETAILS SHALL BE SUBMITTED TO THE COUNTY FOR REVIEW AND APPROVAL.
7. SIGN POST LENGTHS ARE MEASURED FROM THE BOTTOM OF THE SIGN TO THE NEAR EDGE OF THE DRIVING LANE. POST LENGTHS SHALL BE A MINIMUM 5 FEET FOR RURAL ROADWAY SECTIONS TO A MINIMUM OF 7 FEET FOR URBAN AND INTERSTATE ROADWAY SECTIONS. SEE NMDOT STANDARD DRAWING 701-02-2/3.
8. ALL SIGNING HARDWARE, INCLUDING, BUT NOT LIMITED TO, BRACKETS BANDING, BUCKLES, FASTENERS, SCREWS, AND WASHERS, ETC. ARE CONSIDERED INCIDENTAL TO SIGN INSTALLATION. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
9. THREE (3) - 4 LBS./FT. SIGN POST INSTALLATION APPROVED ONLY IF THE SPAN BETWEEN THE OUTER POSTS EXCEEDS 84" (A SIGN WIDTH OF 96" OR GREATER).
10. 3'-6" BASE POSTS ARE REQUIRED FOR ALL SMALL SIGN POSTS AND BASE POSTS SHALL BE NEXT LARGER SIZE THAN MAIN SIGN POST. SEE NMDOT STANDARD DRAWING 701-02-1/3.
11. SIGN POSTS SHALL BE SQUARE TUBING AND SIZED PER NMDOT STANDARD DRAWING 701-02-1/3.
12. THE LATERAL CLEARANCE OF SIGNS SHALL BE NOT LESS THAN 6 FEET FROM THE EDGE OF SHOULDER OR 12 FEET FROM THE EDGE OF TRAVELED WAY FOR RURAL AREAS AND NO CLOSER THAN 2 FEET FROM FACE OF CURB FOR URBAN AREAS. SEE NMDOT STANDARD DRAWING 701-02-2/3.
13. CONTRACTOR SHALL FIELD VERIFY ALL SIGNING, TEXT, AND LOCATIONS PRIOR TO FABRICATION AND INSTALLATION. NEW SIGN LOCATIONS SHALL BE APPROVED BY THE COUNTY PROJECT MANAGER.
14. HOT THERMOPLASTIC PAVEMENT MARKINGS SHALL BE USED ON ALL STRIPING (LONG LINES, LEGENDS, SYMBOLS, ETC.). THE THERMOPLASTIC PAVEMENT MARKING SHALL BE APPLIED AT A THICKNESS OF 90 MIL. THE APPROVED THERMOPLASTIC MARKING APPLICATION METHOD SHALL BE EITHER GRAVITY EXTRUSION OR RIBBON APPLICATION.
15. THE CONTRACTOR SHALL MARK ALL LOCATIONS IN THE FIELD IN WHICH PAVEMENT MARKINGS, SUCH AS LEGENDS, ARROWS, CROSSWALKS, STOP BARS, ETC., ARE TO BE PLACED. THE PAVEMENT MARKING LAYOUT SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR. THE CONTRACTOR SHALL OBTAIN CONCURRENCE FROM THE COUNTY PROJECT ENGINEER BEFORE THE FINAL MARKINGS ARE APPLIED.
16. WATER BLASTING IS THE ONLY APPROVED METHOD OF EXISTING STRIPE REMOVAL. THE USE OF BLACK PAINT AS A METHOD OF REMOVING OR COVERING EXISTING STRIPING IS STRICTLY PROHIBITED. WHEN WATER BLASTING ON OPEN GRADED FRICTION COURSE (OGFC), OR ON THE FINAL LIFT OF THE EXISTING PAVEMENT, THE CONTRACTOR SHALL APPLY A SEAL TO THE WATER BLASTED AREA. THIS SEAL SHALL BE INCIDENTAL TO REMOVAL OF THE PAVEMENT STRIPE AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.



SAN JUAN COUNTY
21-22-23

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CR 3000 OVER JONES ARROYO
BRIDGE 10136
SIGNING AND STRIPING GENERAL NOTES



01/18/24

PANEL SIGN QUANTITIES

| REF. SHEET | SIGN CODE | LOCATION | WIDTH OF SIGN IN. | HEIGHT OF SIGN IN. | 701000 - Panel Signs | | STEEL POST AND BASE POST FOR ALUMINUM PANEL SIGNS | | | | | | | | | | REMARKS |
|--|-----------|-----------|----------------------|-----------------------|-----------------------------|-------------------------------|---|--------------------|-------------------|-------------------|---------------|---------------|---------------|-------------|-----------|-------|---------|
| | | | | | NO. OF SIGNS 2-LANE EACH | TOTAL SIGN AREA 2-LANE SF. | MOUNTING REQUIREMENTS | | | | SQUARE TUBING | | | | BASE POST | | |
| | | | | | | | POST LENGTH | | | | 1.75" X 1.75" | 2.00" X 2.00" | 2.25" X 2.25" | 2.5" X 2.5" | NO. | TOTAL | |
| | | | | | | | LEFT LIN. FT. | CENTER LIN. FT. | RIGHT LIN. FT. | TOTAL LIN. FT. | | | | | | | |
| BRIDGE 3121 (COUNTY RD 3000 & JONES ARROYO) | | | | | | | | | | | | | | | | | |
| LT | R1-1 | 103+11.40 | 30 | 30 | 1 | | | 6.33 | | | 6.33 | X | | | | 1 | 3.50 |
| | | | | | PROJECT TOTAL | | | 6.33 | | | 6.33 | | | | | | 3.50 |
| | | | | | PROJECT USE | | | 7 | | | 7 | | | | | | 3.50 |

PERMANENT STRIPING QUANTITIES

| ITEM NUMBER | STATION | TO | STATION | DESCRIPTION | UNITS | SUBTOTAL | PROJECT TOTAL | REMARKS |
|---|-----------|----|-----------|---|-------|---|---------------|--------------------------------------|
| SAN JUAN COUNTY ROAD 3000 NORTHBOUND | | | | | | | | |
| X | 101+33.76 | - | 103+63.00 | HOT THERMOPLASTIC PAVEMENT MARKINGS 4" (SOLID YELLOW) | L.F. | 229.24 | 230.00 | STRIPING FOR TRAFFIC CONTROL PHASING |
| X | 102+34.02 | - | 103+63.00 | HOT THERMOPLASTIC PAVEMENT MARKINGS 4" (SOLID WHITE) | L.F. | 128.98 | 130.00 | STRIPING FOR TRAFFIC CONTROL PHASING |
| | | | | | | SAN JUAN COUNTY RD 3000 NB - 4" STRIPING | 360 | |
| SAN JUAN COUNTY ROAD 3000 SOUTHBOUND | | | | | | | | |
| X | 101+33.76 | - | 103+63.00 | HOT THERMOPLASTIC PAVEMENT MARKINGS 4" (SOLID YELLOW) | L.F. | 229.24 | 230.00 | STRIPING FOR TRAFFIC CONTROL PHASING |
| X | 101+55.25 | - | 103+04.47 | HOT THERMOPLASTIC PAVEMENT MARKINGS 4" (SOLID WHITE) | L.F. | 149.22 | 150.00 | STRIPING FOR TRAFFIC CONTROL PHASING |
| | | | | | | SAN JUAN COUNTY RD 3000 SB - 4" STRIPING | 380 | |
| | | | | | | 4" STRIPING TOTAL | 740 | |
| | | | | | | PROJECT TOTAL | 1,480 | |

NOTES:

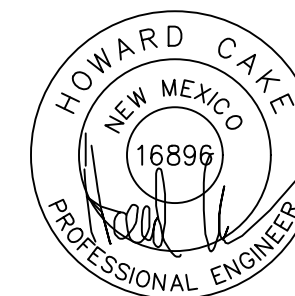
1. PROJECT TOTAL QUANTITY SHOWN IS FOR 2 COATS OF STRIPING PER NMDOT STANDARD DRAWING 702-02-1/1.



SAN JUAN COUNTY
21-22-23

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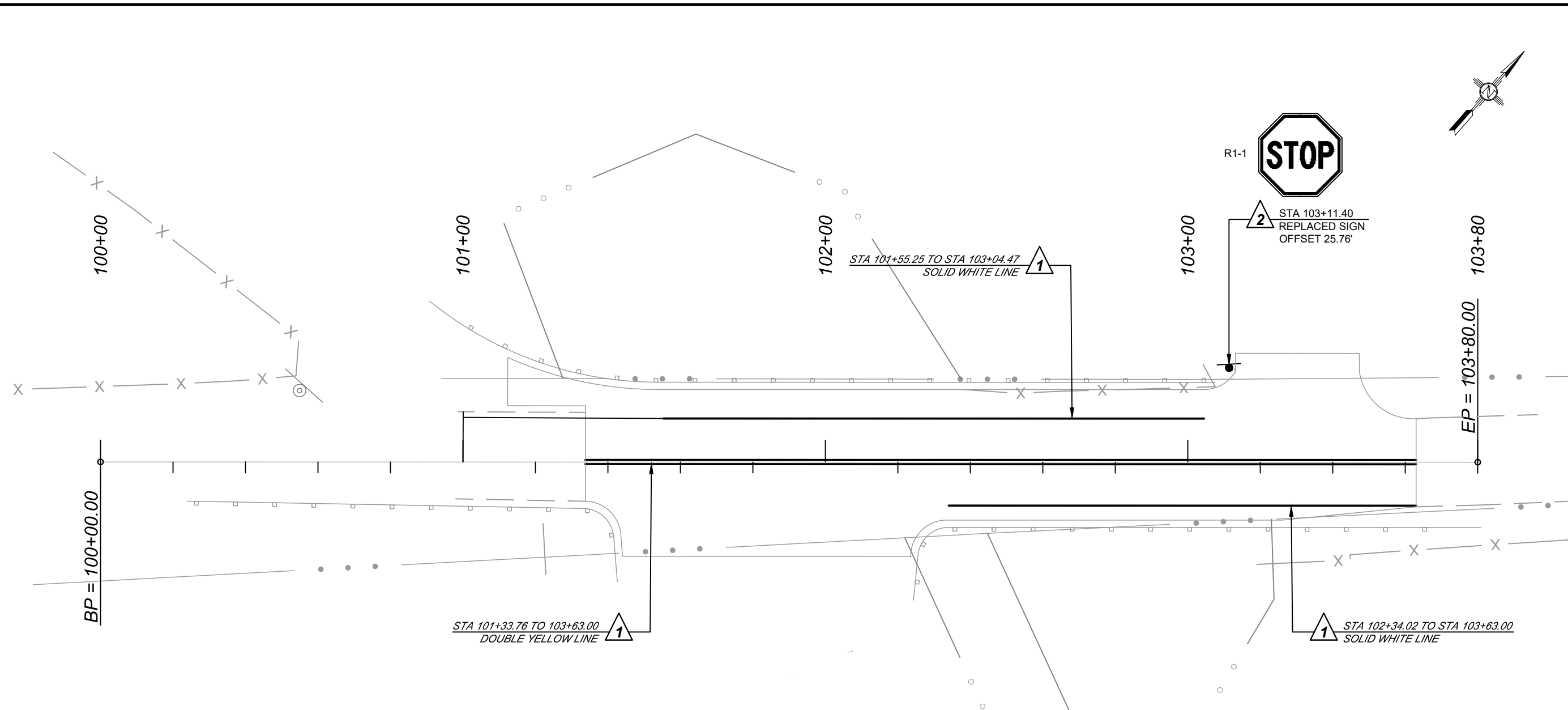
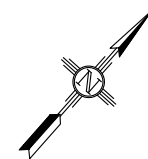
CR 3000 OVER JONES ARROYO
BRIDGE 10136
PERMANENT SIGNING AND STRIPING QUANTITIES



01/18/24



SAN JUAN COUNTY
21-22-23



SIGNING AND STRIPING NOTES

- 1** 4" PAVEMENT STRIPING.
- 2** REMOVED AND REPLACED EXISTING SIGN. WORK COMPLETED BY COUNTY.



| NO. | DESCRIPTION | DATE | BY |
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CR 3000 OVER JONES ARROYO
BRIDGE 10136
PERMANENT SIGNING AND STRIPING

01/18/24