

EAGLEVIEW SUBDIVISION CONSTRUCTION DOCUMENTS

A PORTION OF THE NORTHWEST ONE-QUARTER (N.W.1/4) OF SECTION 26 TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M. COUNTY OF EL PASO, STATE OF COLORADO

STANDARD NOTES

1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
 - A. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
 - B. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
 - C. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
 - D. CDOT M & S STANDARDS
4. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOT AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

FLOODPLAIN NOTE

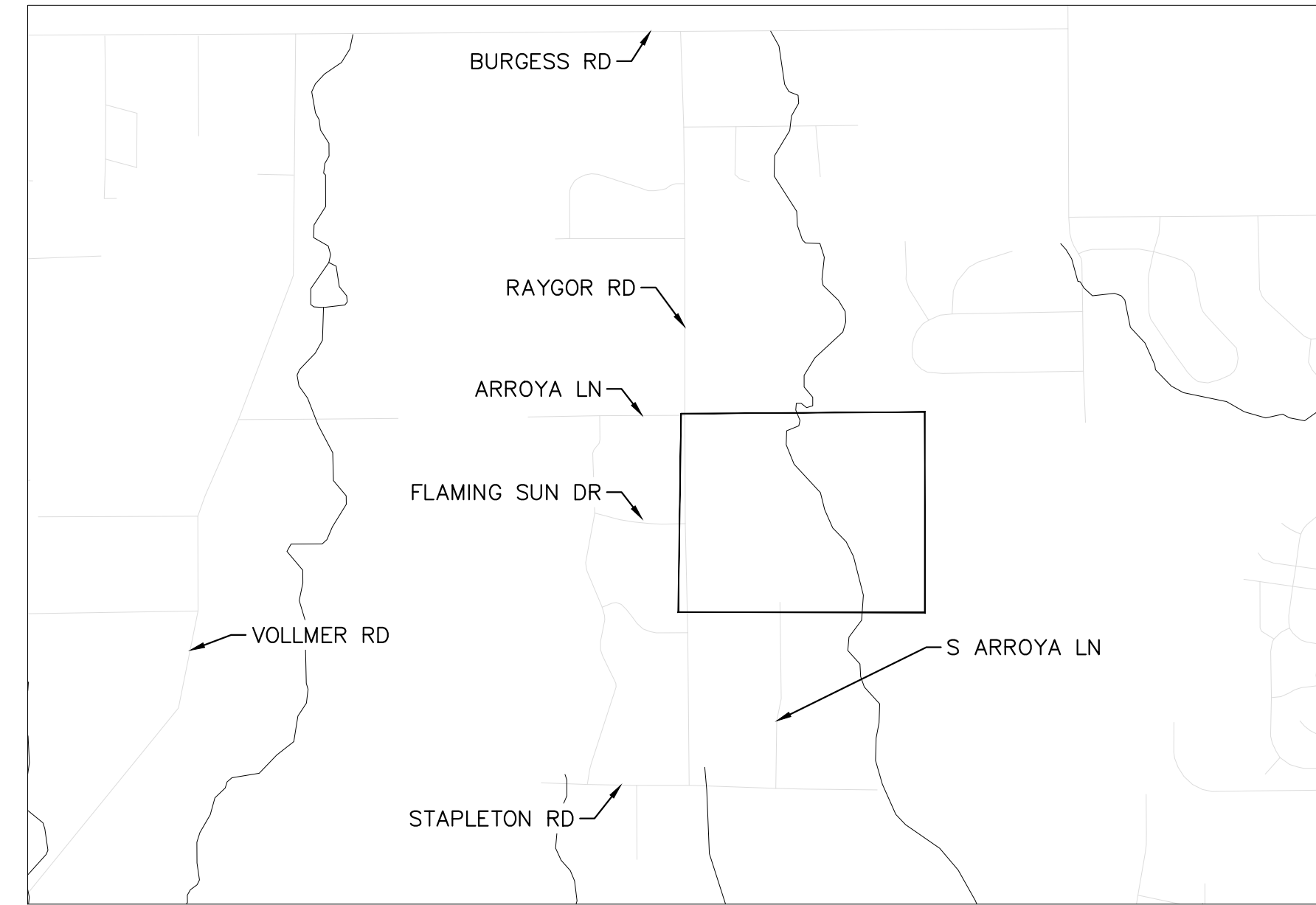
ACCORDING TO NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP NUMBER 08041C0535G (MAP REVISED DECEMBER 7, 2018), THE SUBJECT PROPERTY IS LOCATED IN OTHER AREAS, ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

BENCHMARK

CONTROL POINTS AS SHOWN HEREON. ELEVATIONS ARE BASED ON CITY OF COLORADO SPRINGS FIMS MONUMENT F_65. PANEL POINTS 50 FOUND AT THE NW CORNER OF RAYGOR ROAD AND ARROYA LANE (EL=7281.39), AND 51 FOUND AT THE NW CORNER OF RAYGOR ROAD AND FLAMING SUN DRIVE (EL=7251.58). (DATUM: NGVD 29).

BASIS OF BEARINGS

ALL BEARINGS USED HEREIN ARE BASED ON AN ASSUMED BEARING S00°02'11"E (S00°02'11"E PER THE RECORDED DEED), A DISTANCE OF 2587.22 FEET (2587.32 FEET OF RECORD) BETWEEN A 2-1/2" ALUMINUM CAP STAMPED "PLS 4842" AT THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER CORNER OF SECTION 26 AND A 2" ALUMINUM CAP STAMPED "PLS 25968" AT THE CENTER ONE-QUARTER OF SAID SECTION 26.



VICINITY MAP
1" = 2000'

CONTACTS:

DEVELOPER:
PT EAGLEVIEW, LLC
1864 WOODMOOR DRIVE, SUITE 100
MONUMENT, CO 80132
TEL: (719) 476-0800
CONTACT: JOSEPH DESJARDIN

PLANNER/LANDSCAPE ARCHITECT:
NES, INC
619 N CASCADE AVENUE, SUITE 200
COLORADO SPRINGS, CO 80903
TEL: (719) 471-0073
EMAIL: A.BARLOW@NESCOLORADO.COM
CONTACT: ANDREA BARLOW

ENGINEER:
KIMLEY-HORN AND ASSOCIATES, INC.
2 NORTH NEVADA AVENUE, SUITE 300
COLORADO SPRINGS, CO 80903
TEL: (719) 352-9194
EMAIL: KEVIN.KOFFORD@KIMLEY-HORN.COM
CONTACT: KEVIN KOFFORD

SURVEY:
RAMPART SURVEYS, LLC.
1050 TAMARAC PKWY
WOODLAND PARK, CO 80663
TEL: (719) 687-0920
CONTACT: RUSS WOOD

EL PASO COUNTY PLANNING DEPARTMENT
2880 INTERNATIONAL CIRCLE, SUITE 110
COLORADO SPRINGS, CO 80910

PLANNING REVIEWER:
RYAN HOWSER
TEL: (719) 520-6049
EMAIL: RYANHOWSER@ELPASOCO.COM

ENGINEERING REVIEWER:
ED SCHOENHEIT
(719) 520-6813
EMAIL: EDWARDSCHOENHEIT@ELPASOCO.COM
DANIEL TORRES
EMAIL: DANIELTORRES@ELPASOCO.COM

COUNTY ENGINEER:
JOSHUA PALMER
TEL: (719) 520-6806
EMAIL: JOSHUAPALMER@ELPASOCO.COM

EPC PCD INSPECTIONS SUPERVISOR:
BRAD WALTERS
TEL: (719) 520-6819
EMAIL: BRADWALTERS@ELPASOCO.COM

FALCON FIRE DEPARTMENT:
AREA: FAL D2
FIRE CHIEF T. HARWIG
7030 OLD MERIDIAN ROAD
PAYTON, CO 80831
TEL: (719) 495-4250
EMAIL: FALCONFIRE@FALCONFIREPD.ORG

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT:
WATER QUALITY CONTROL DIVISION
4300 CHERRY CREEK DRIVE SOUTH
DENVER, CO 80246
TEL: (303) 692-3500

LEGAL DESCRIPTION

A PORTION OF THE NORTHWEST QUARTER OF SECTION 26, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6th P.M., EL PASO COUNTY, COLORADO, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF SAID NORTHWEST QUARTER OF SECTION 26, AS ACCEPTED AND USED IN THE PLATS OF MFY FARM SUBDIVISION AND PAINT BRUSH HILLS FILING NO. 3, RECORDED IN PLAT BOOK T-3 AT PAGE 93 AND IN PLAT BOOK U-3 AT PAGE 79, RESPECTIVELY, OF THE RECORDS OF SAID EL PASO COUNTY; THENCE S00°02'11"E, ALONG THE EAST LINE OF SAID NORTHWEST QUARTER OF SECTION 26, A DISTANCE OF 2587.22 FEET TO THE CENTER QUARTER CORNER OF SAID SECTION 26 (BASIS OF BEARINGS - ASSUMED); THENCE N89°28'49"W, A DISTANCE OF 978.75 FEET TO THE NORTHEAST CORNER OF LOT 30 OF STAPLETON ESTATES FILING NO. 1, AS RECORDED IN PLAT BOOK R-3 AT PAGE 76 OF THE RECORDS OF SAID EL PASO COUNTY; THENCE N89°31'16"W, ALONG THE BOUNDARY LINE OF SAID STAPLETON ESTATES FILING NO. 1, A DISTANCE OF 1063.31 FEET TO THE NORTHWEST CORNER OF LOT 8 OF SAID STAPLETON ESTATES FILING NO. 1; THENCE N00°26'14"W ALONG THE EAST LINE OF SAID STAPLETON ESTATES FILING NO. 1, A DISTANCE OF 2561.60 FEET TO A POINT ON THE NORTH LINE OF SAID NORTHWEST QUARTER OF SECTION 26; THENCE N89°46'46"E, ALONG SAID NORTH LINE AND ALONG THE SOUTHERLY BOUNDARY LINE OF SAID MFY FARM SUBDIVISION AND THE SOUTHERLY LINE OF RODGWICK SUBDIVISION, RECORDED AT RECEPTION NO. 207712566 OF THE RECORDS OF SAID EL PASO COUNTY, A DISTANCE OF 2059.89 FEET TO THE POINT OF BEGINNING.

SAID TRACT CONTAINS 121.20 ACRES OF LAND, MORE OR LESS.

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SHEET TITLE	SHEET NO.
COVER SHEET	C1.0
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HORIZONTAL CONTROL PLAN	C1.4 - C1.5
GRADING PLAN	C1.6 - C1.7
FLAMING SUN DR. PLAN & PROFILE	C1.8 - C1.10
S. ARROYA LN. PLAN & PROFILE	C1.11 - C1.13
PRESA LN. & CHAMITA TRL. PLAN & PROFILE	C1.14 - C1.15
ARROYA LN. PLAN & PROFILE	C1.16
BURGESS REMOVE & RESET PLAN	C1.17
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OFF-SITE STRIPING & SIGNAGE PLAN	C1.20
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N. MAINTENANCE ROAD PLAN & PROFILE	C1.53 - C1.54
CHANNEL STRUCTURES DETAIL	C1.55

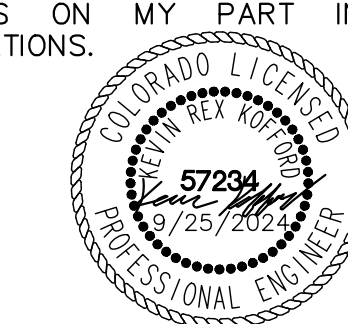
DEVELOPER'S/OWNER'S SIGNATURE BLOCK

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

Joseph W. Desjardin 10/09/2024
OWNER SIGNATURE DATE

ENGINEER'S SIGNATURE BLOCK

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.



9/25/2024
KEVIN KOFFORD, PE - KIMLEY-HORN AND ASSOCIATES, INC. DATE

EL PASO COUNTY

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

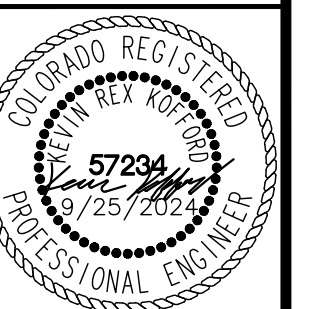
COUNTY ENGINEER/ECM ADMINISTRATOR DATE

NO.	REVISION	BY	DATE



DESIGNED BY: MJK
DRAWN BY: MJK
CHECKED BY: KRK
DATE: 9/17/2024

EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
COVER SHEET



PROJECT NO.
196106001

SHEET
C1.0

ON-SITE ROADWAY TYPICAL SECTIONS

NOTE

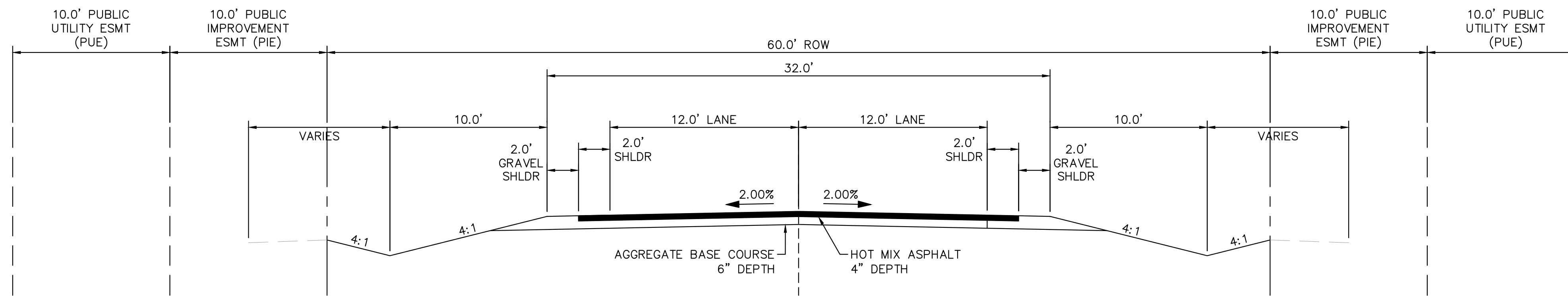
1. ROADWAY SECTION DIMENSIONS ARE PRELIMINARY AND ARE TO BE CONFIRMED WITH A PAVEMENT DESIGN REPORT SUBMITTED TO THE COUNTY.

TYPICAL SECTION (A)	
ROADWAY	STATION
S. ARROYA LANE	8+67.00 - 12+00.00
S. ARROYA LANE	15+95.00 - 16+50.00
S. ARROYA LANE	19+63.50 - 24+38.00
FLAMING SUN DRIVE	26+88.00 - 30+73.00
FLAMING SUN DRIVE	33+27.00 - 37+76.00
FLAMING SUN DRIVE	43+15.00 - 44+00.00
ACEQUIA COURT	70+33.00 - 70+80.00
ACEQUIA COURT	72+21.50 - 75+44.00
ARROYA LANE	80+36.00 - 81+50.00
ARROYA LANE	83+00.00 - 88+46.00

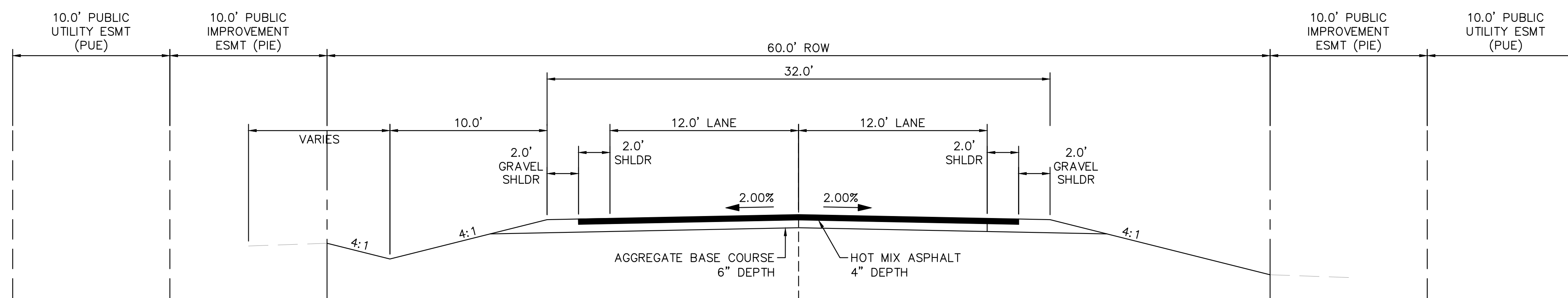
TYPICAL SECTION (B)	
ROADWAY	STATION
FLAMING SUN DRIVE	39+85.00 - 43+15.00
ACEQUIA COURT	70+80.00 - 71+61.50
CHAMITA TRAIL	60+60.00 - 63+78.50

TYPICAL SECTION (C)	
ROADWAY	STATION
S. ARROYA LANE	16+50.00 - 18+81.00
FLAMING SUN DRIVE	24+40.00 - 26+88.00
ACEQUIA COURT	71+61.50 - 72+22.00

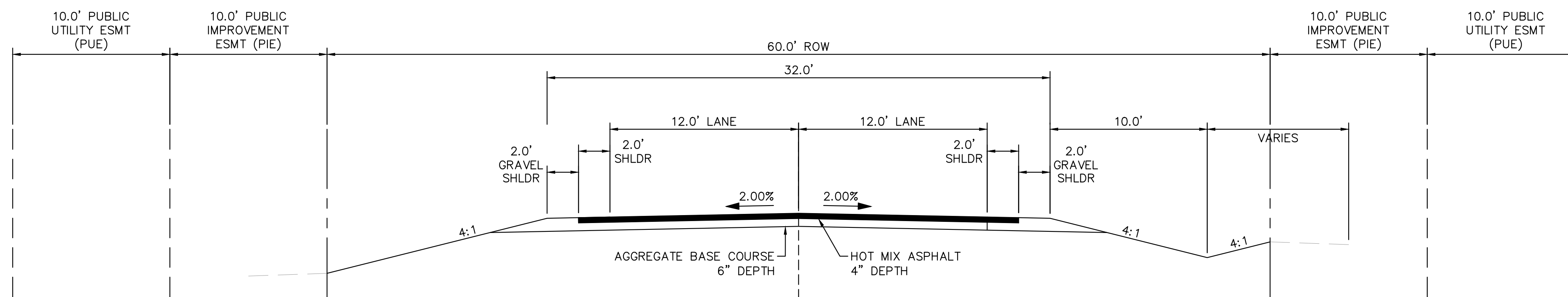
TYPICAL SECTION (D)	
ROADWAY	STATION
S. ARROYA LANE	0+00.00 - 8+67.00
S. ARROYA LANE	12+00.00 - 15+00.00
S. ARROYA LANE	18+81.00 - 19+63.50
FLAMING SUN DRIVE	30+73.00 - 33+27.00
FLAMING SUN DRIVE	37+76.00 - 39+85.00
PRESA LANE	54+00.00 - 50+13.00
ARROYA LANE	81+50.00 - 83+00.00



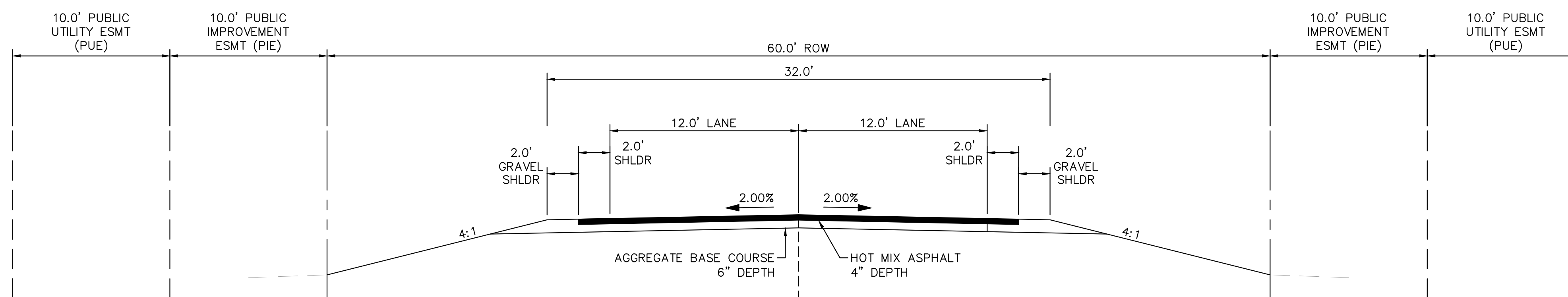
(A) RURAL LOCAL ROADWAY - ROADSIDE DITCH: LEFT AND RIGHT
SCALE: 1" = 5'



(B) RURAL LOCAL ROADWAY - ROADSIDE DITCH: LEFT
(C) SCALE: 1" = 5'



(C) RURAL LOCAL ROADWAY - ROADSIDE DITCH: RIGHT
SCALE: 1" = 5'

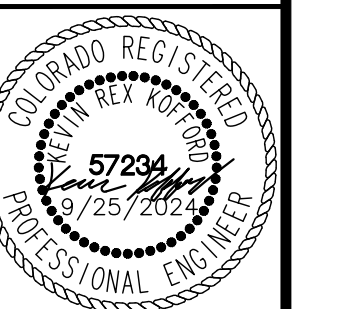


(D) RURAL LOCAL ROADWAY - NO ROADSIDE DITCH
SCALE: 1" = 5'

Kimley-Horn
2024 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 900
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK
DRAWN BY: MJK
CHECKED BY: KRK
DATE: 9/17/2024

EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
TYPICAL SECTIONS



PROJECT NO.
196106001

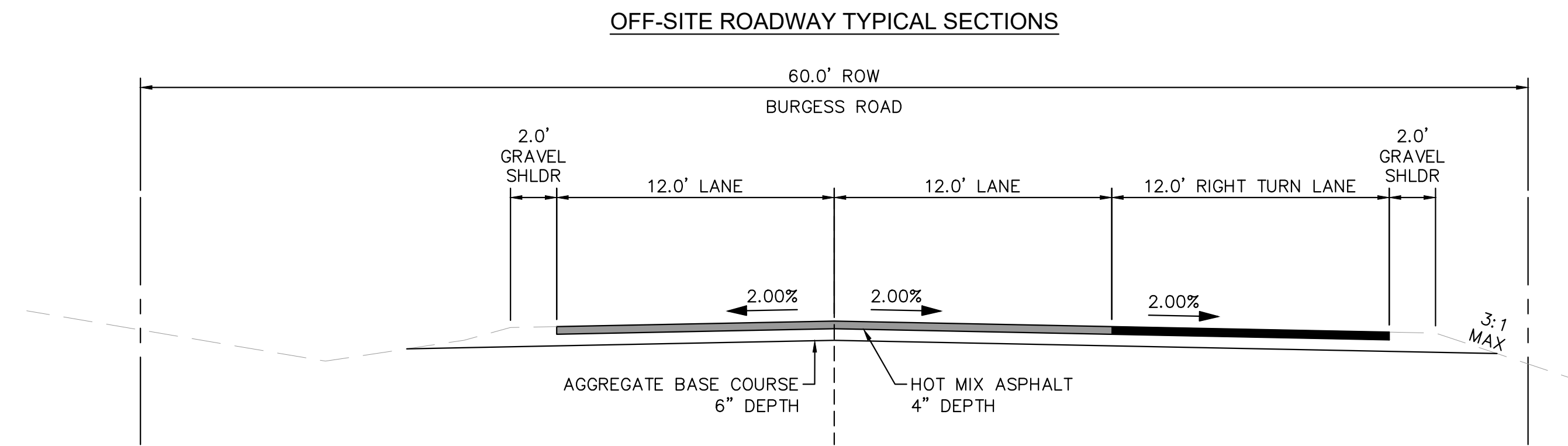
SHEET
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NO.	REVISION	BY	DATE	APPR

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NOTE

1. ROADWAY SECTION DIMENSIONS ARE PRELIMINARY AND ARE TO BE CONFIRMED WITH A PAVEMENT DESIGN REPORT SUBMITTED TO THE COUNTY.

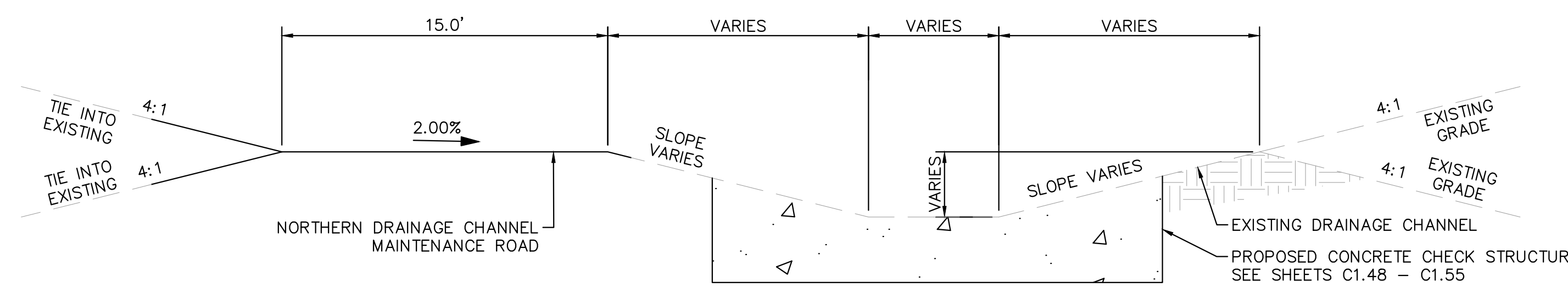


(F) PROPOSED BURGESS ROAD R-H TURN LANE
SCALE: 1" = 5'

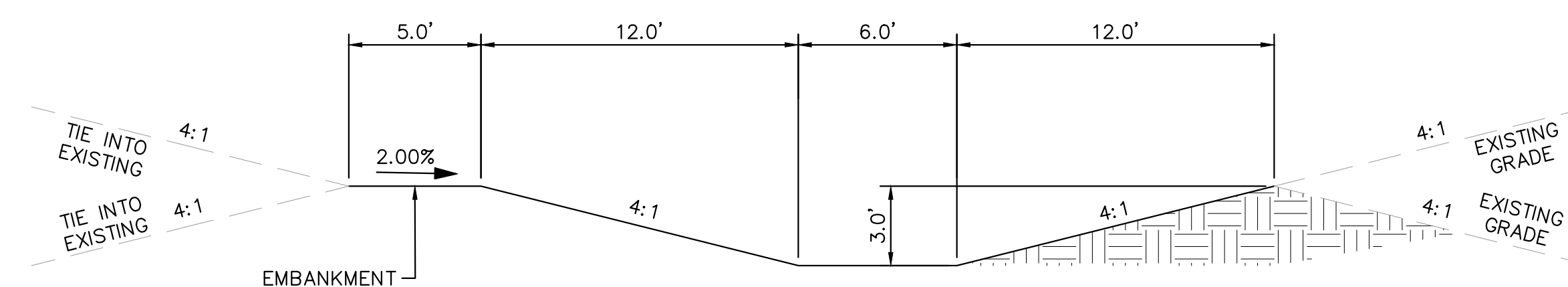
STA 4+10.50 - 6+22.00

	BURGESS ROAD	RAYGOR ROAD
ROADWAY CLASSIFICATION	RURAL MINOR ARTERIAL	RURAL LOCAL (LOW VOLUME)
DESIGN SPEED	50 MPH	30 MPH
POSTED SPEED	45 MPH	30 MPH
GRADE (MIN./MAX.)	1.0%/6.0%	1.0%/8.0%
INTERSECTION GRADES (MIN./MAX.)	1.0%/4.0%	1.0%/4.0%
MINIMUM S.S.D HORIZONTAL	570'	200'
MINIMUM S.S.D. VERTICAL (CREST CURVE)/DESIGN K	570'/151	200'/19
MINIMUM S.S.D. VERTICAL (SAG CURVE)/DESIGN K	570'/136	200'/37
REDIRECT TAPERS	45:1	15:1

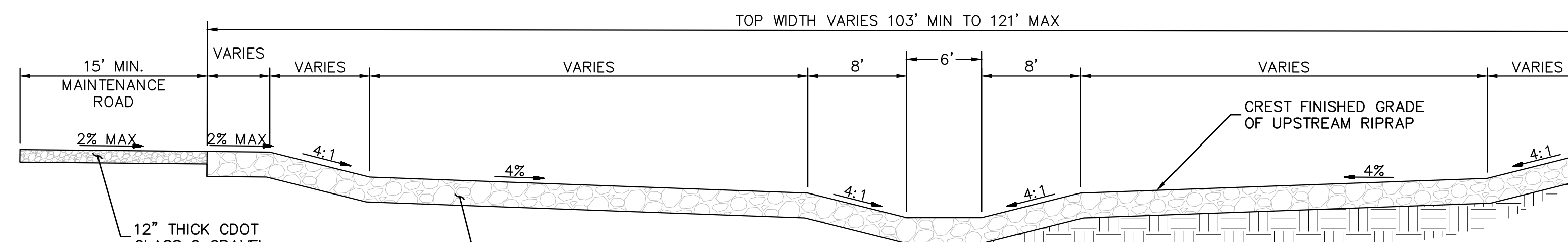
DRAINAGE CHANNEL CROSS SECTIONS



(G) NORTH CHANNEL SECTION - SEE SHEETS C1.48 - C1.52
SCALE: 1" = 5'



(H) WQ POND 1 DRAINAGE CHANNEL SECTION - SEE SHEETS C1.7 & C1.35
SCALE: 1" = 5'



(I) SOUTH CHANNEL SECTION - SEE SHEETS C1.43 - C1.45
SCALE: 1" = 8'

NOTE

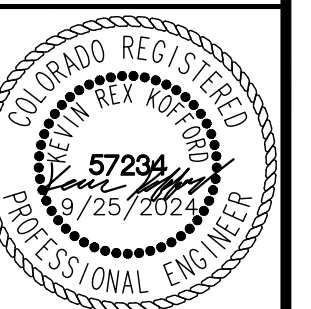
1. MAINTENANCE ACCESS ROAD PROVIDED PER EPC ECM 3.3.3.K.

NO.	REVISION	BY	DATE	APPR

Kimley-Horn
2024 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 900
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK
DRAWN BY: MJK
CHECKED BY: KRK
DATE: 9/17/2024

EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
TYPICAL SECTIONS



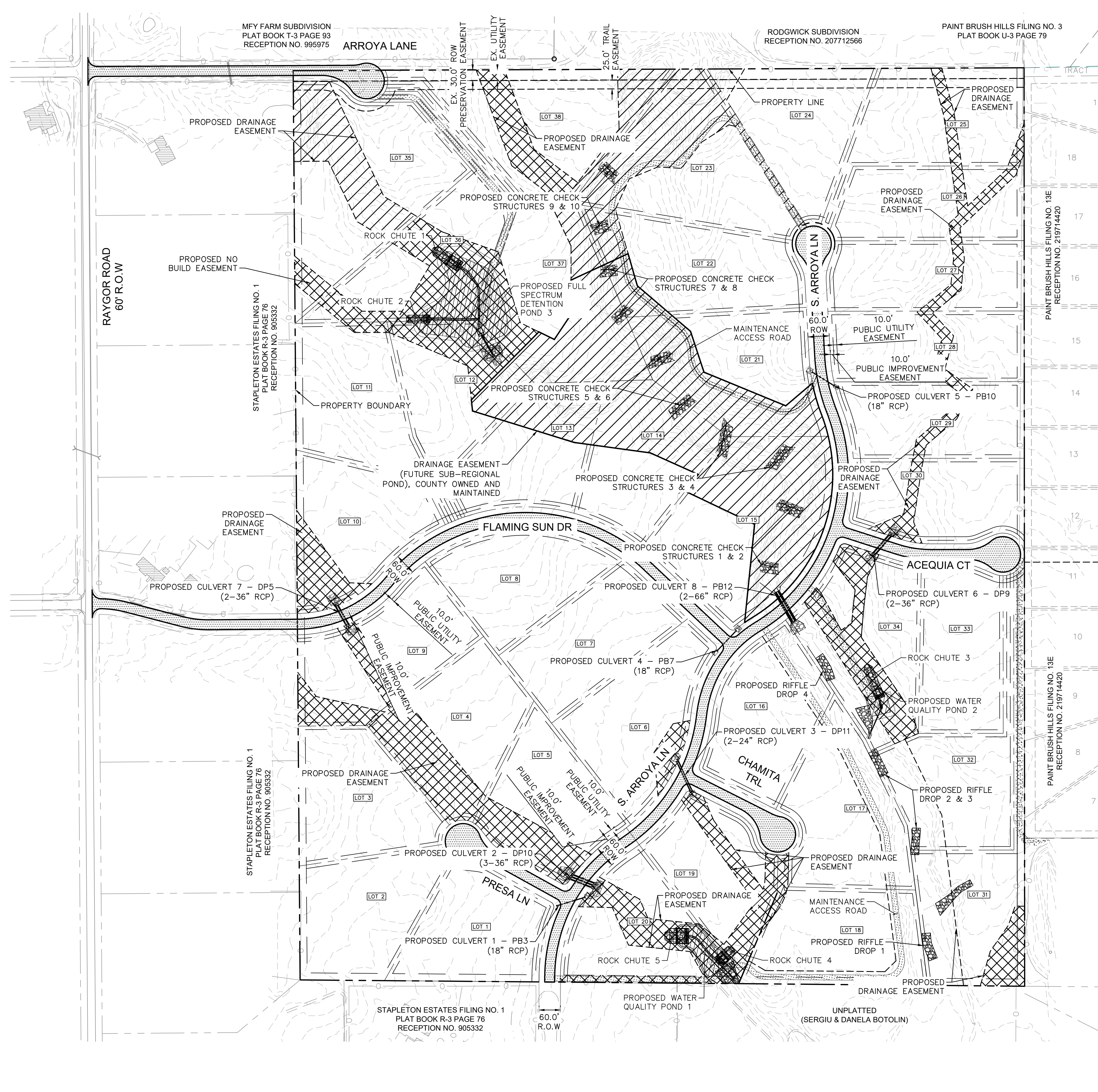
PROJECT NO.
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C1.2

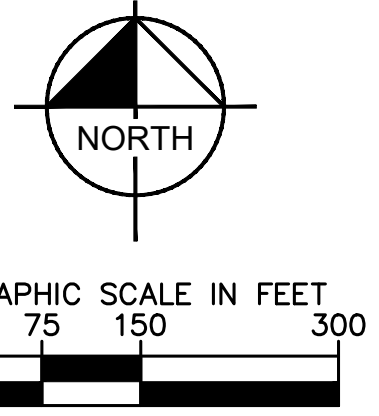
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CALL UTILITY NOTIFICATION CENTER OF COLORADO 1-800-922-1987



- LEGEND**
- PROPERTY/LOT LINE
 - ROW LINE
 - LOT NUMBER
 - PROPOSED DRAINAGE EASEMENT
 - PROPOSED ROAD (ASPHALT PAVEMENT)
 - PROPOSED MAINTENANCE ROAD
 - PROPOSED POND



NO.	REVISION	BY	DATE	APPR

Kimley»Horn
 2024 KIMLEY-HORN AND ASSOCIATES, INC.
 2 North Nevada Avenue Suite 900
 Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK
 DRAWN BY: MJK
 CHECKED BY: KRK
 DATE: 9/17/2024

EAGLEVIEW
 EL PASO COUNTY, COLORADO
 CONSTRUCTION DOCUMENTS
OVERALL SITE PLAN



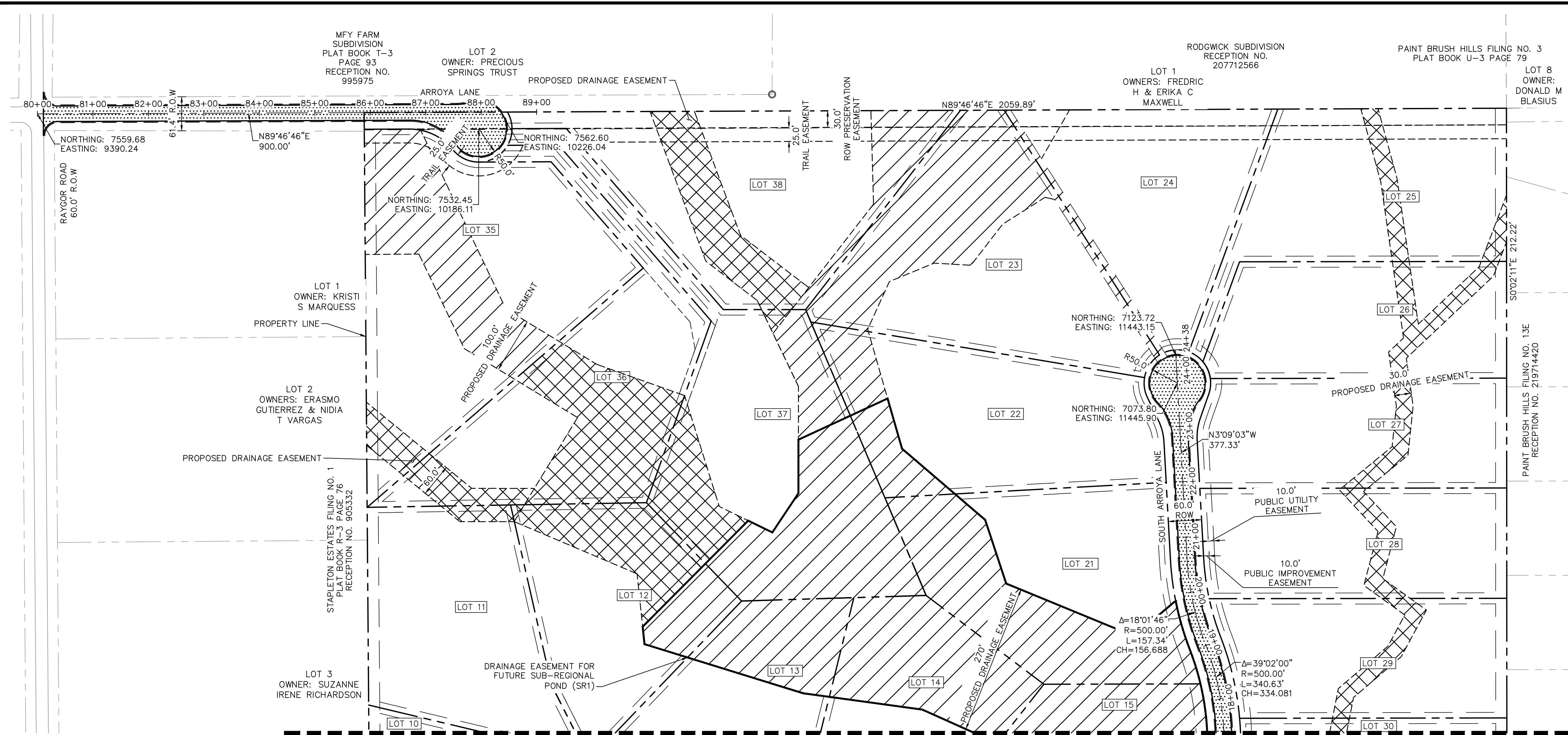
PROJECT NO.
196106001

SHEET
C1.3

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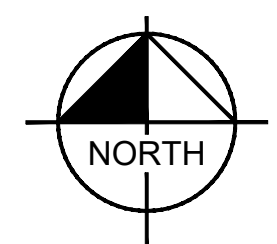
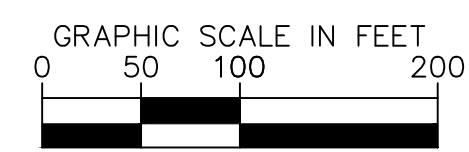
CALL UTILITY NOTIFICATION
CENTER OF COLORADO
1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES



MATCHLINE SEE SHEET C1.5 FOR CONTINUATION

LEGEND

- PROPERTY/LOT LINE
- ROW LINE
- LOT # LOT NUMBER
- METROPOLITAN DISTRICT DRAINAGE AND ACCESS EASEMENT
- [Cross-hatched box] PROPOSED DRAINAGE EASEMENT (MAINTAINED BY METRO DISTRICT)
- [Diagonal-hatched box] STORMWATER FACILITY MAINTENANCE AGREEMENT AND EASEMENT RECEPTION NO. _____



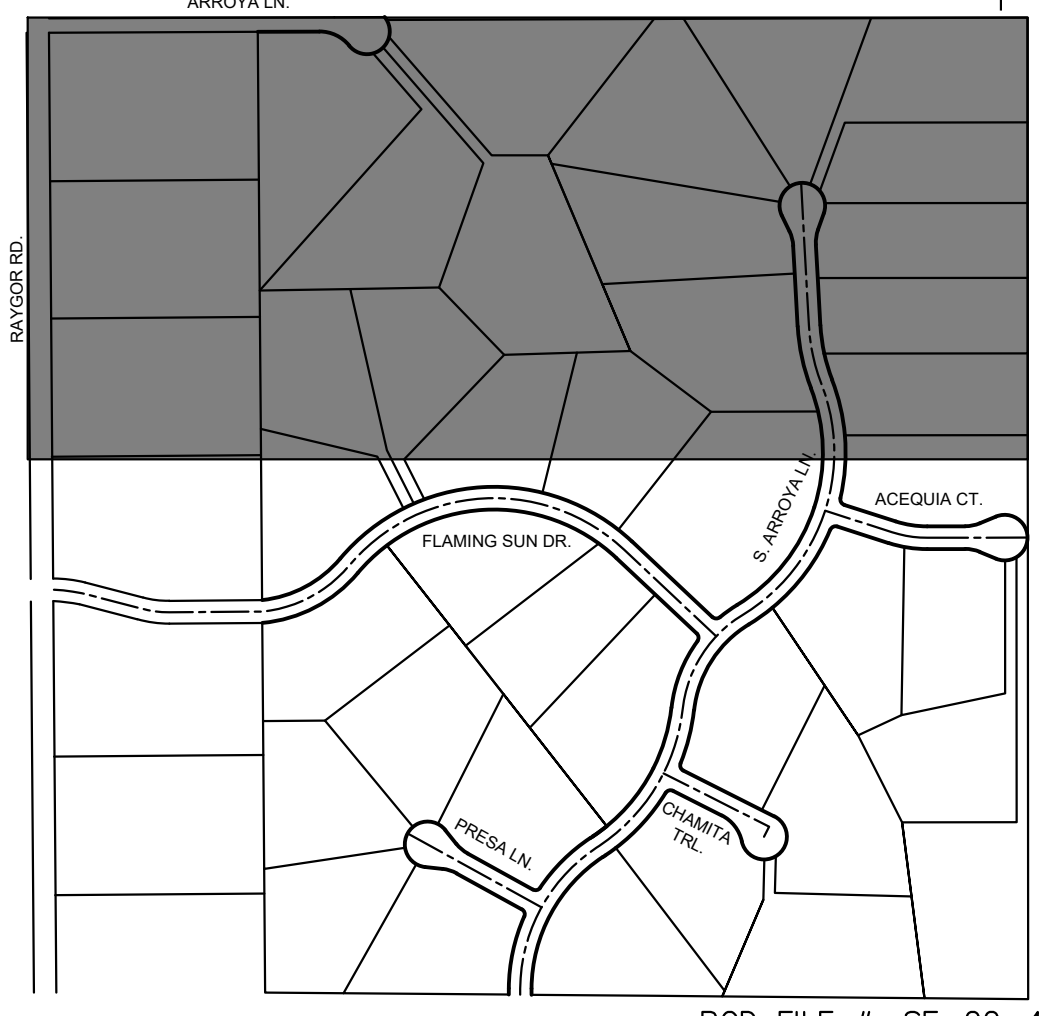
BENCHMARK

CONTROL POINTS AS SHOWN HEREON. ELEVATIONS ARE BASED ON CITY OF COLORADO SPRINGS MONUMENT F-65. PANEL POINTS 50 FOUND AT THE NW CORNER OF RAYGOR ROAD AND ARROYA LANE (EL=7281.39), AND 51 FOUND AT THE NW CORNER OF RAYGOR ROAD AND FLAMING SUN DRIVE (EL=7251.58). (DATUM: NGVD 29).

BASIS OF BEARINGS

ALL BEARINGS USED HEREIN ARE BASED ON AN ASSUMED BEARING S00°02'11"E (S00°02'11"E PER THE RECORDED DEED), A DISTANCE OF 2587.22 FEET (2587.32 FEET OF RECORD) BETWEEN A 2-1/2" ALUMINUM CAP STAMPED "PLS 4842" AT THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER CORNER OF SECTION 26 AND A 2" ALUMINUM CAP STAMPED "PLS 25968" AT THE CENTER ONE-QUARTER OF SAID SECTION 26.

KEY-MAP
1" = 400'



NO.	REVISION	BY	DATE	APPR

Kimley Horn
2024 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 900
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK
DRAWN BY: MJK
CHECKED BY: KRK
DATE: 9/17/2024

EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
HORIZONTAL CONTROL PLAN

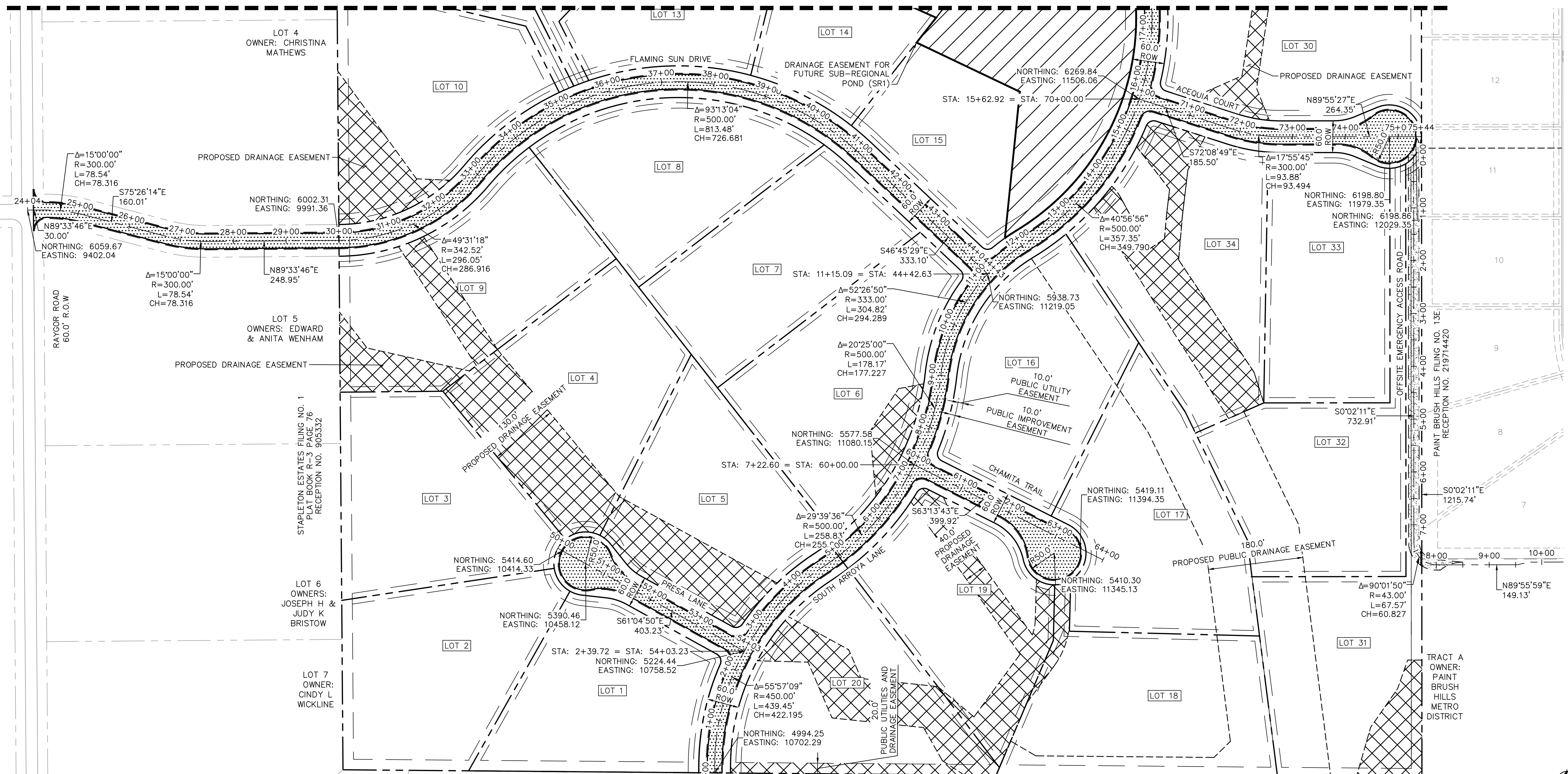


PROJECT NO. 196106001

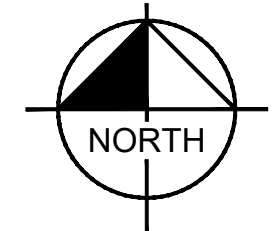
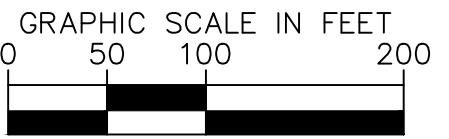
SHEET
C1.4

PCD FILE #: SF-22-42

MATCHLINE SEE SHEET C1.4 FOR CONTINUATION



- LEGEND**
- PROPERTY/LOT LINE
 - - - ROW LINE
 - LOT #
 - - - METROPOLITAN DISTRICT DRAINAGE AND ACCESS EASEMENT
 - [Cross-hatched box] PROPOSED DRAINAGE EASEMENT (MAINTAINED BY METRO DISTRICT)
 - [Diagonal-hatched box] STORMWATER FACILITY MAINTENANCE AGREEMENT AND EASEMENT RECEPTION NO. _____



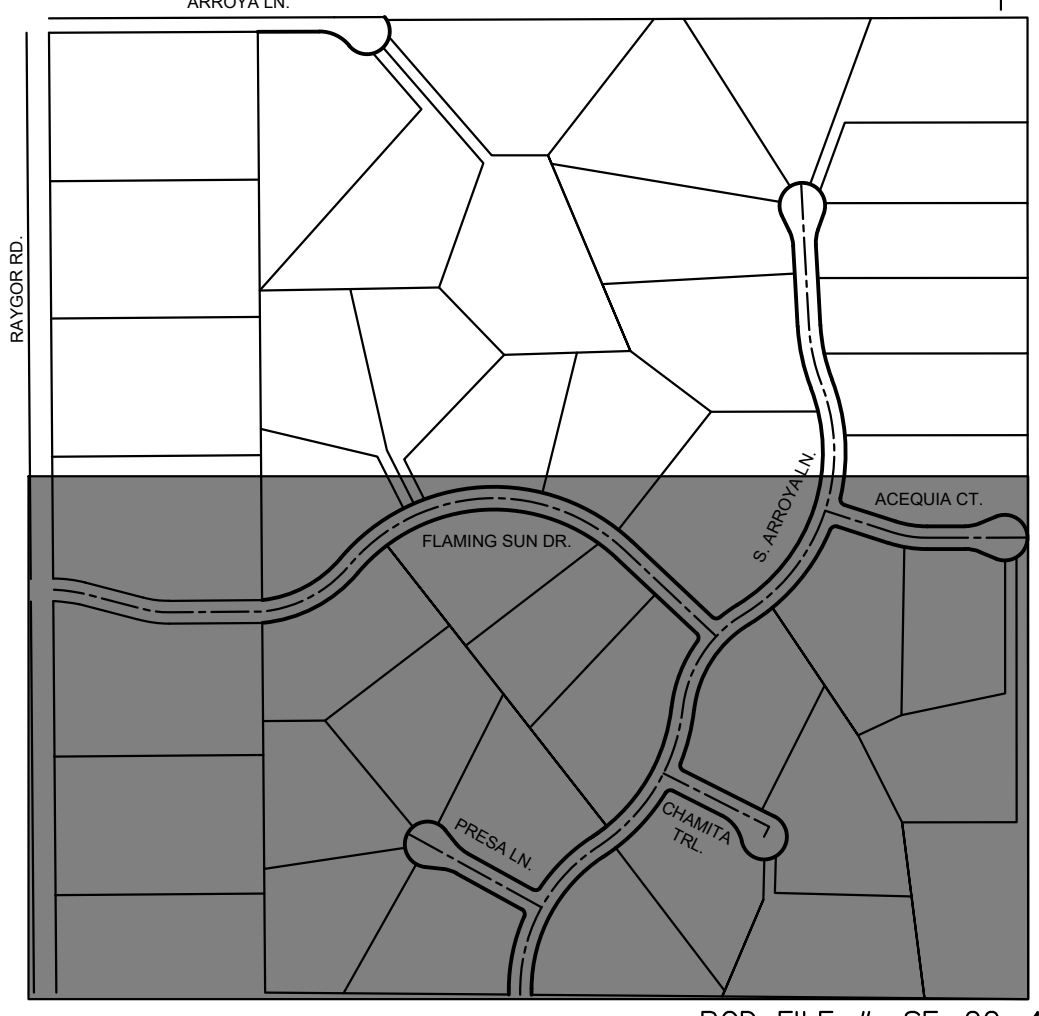
BENCHMARK

CONTROL POINTS AS SHOWN HEREON. ELEVATIONS ARE BASED ON CITY OF COLORADO SPRINGS MONUMENT F_65. PANEL POINTS 50 FOUND AT THE NW CORNER OF RAYGOR ROAD AND ARROYA LANE (EL=7281.39), AND 51 FOUND AT THE NW CORNER OF RAYGOR ROAD AND FLAMING SUN DRIVE (EL=7251.58). (DATUM: NGVD 29).

BASIS OF BEARINGS

ALL BEARINGS USED HEREIN ARE BASED ON AN ASSUMED BEARING S00°02'11"E (S00°02'11"E PER THE RECORDED DEED), A DISTANCE OF 2587.22 FEET (2587.32 FEET OF RECORD) BETWEEN A 2-1/2" ALUMINUM CAP STAMPED "PLS 4842" AT THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER CORNER OF SECTION 26 AND A 2" ALUMINUM CAP STAMPED "PLS 25968" AT THE CENTER ONE-QUARTER OF SAID SECTION 26.

KEY-MAP
1" = 400'

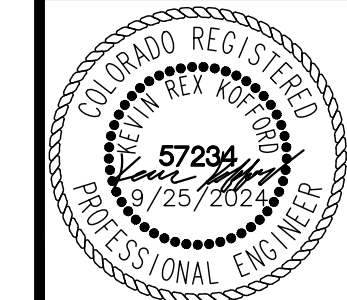


NO.	REVISION	BY	DATE	APPR

Kimley»Horn
 2024 KIMLEY-HORN AND ASSOCIATES, INC.
 2 North Nevada Avenue Suite 900
 Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK
 DRAWN BY: MJK
 CHECKED BY: KRK
 DATE: 9/17/2024

EAGLEVIEW
 EL PASO COUNTY, COLORADO
 CONSTRUCTION DOCUMENTS
HORIZONTAL CONTROL PLAN



PROJECT NO. 196106001
SHEET

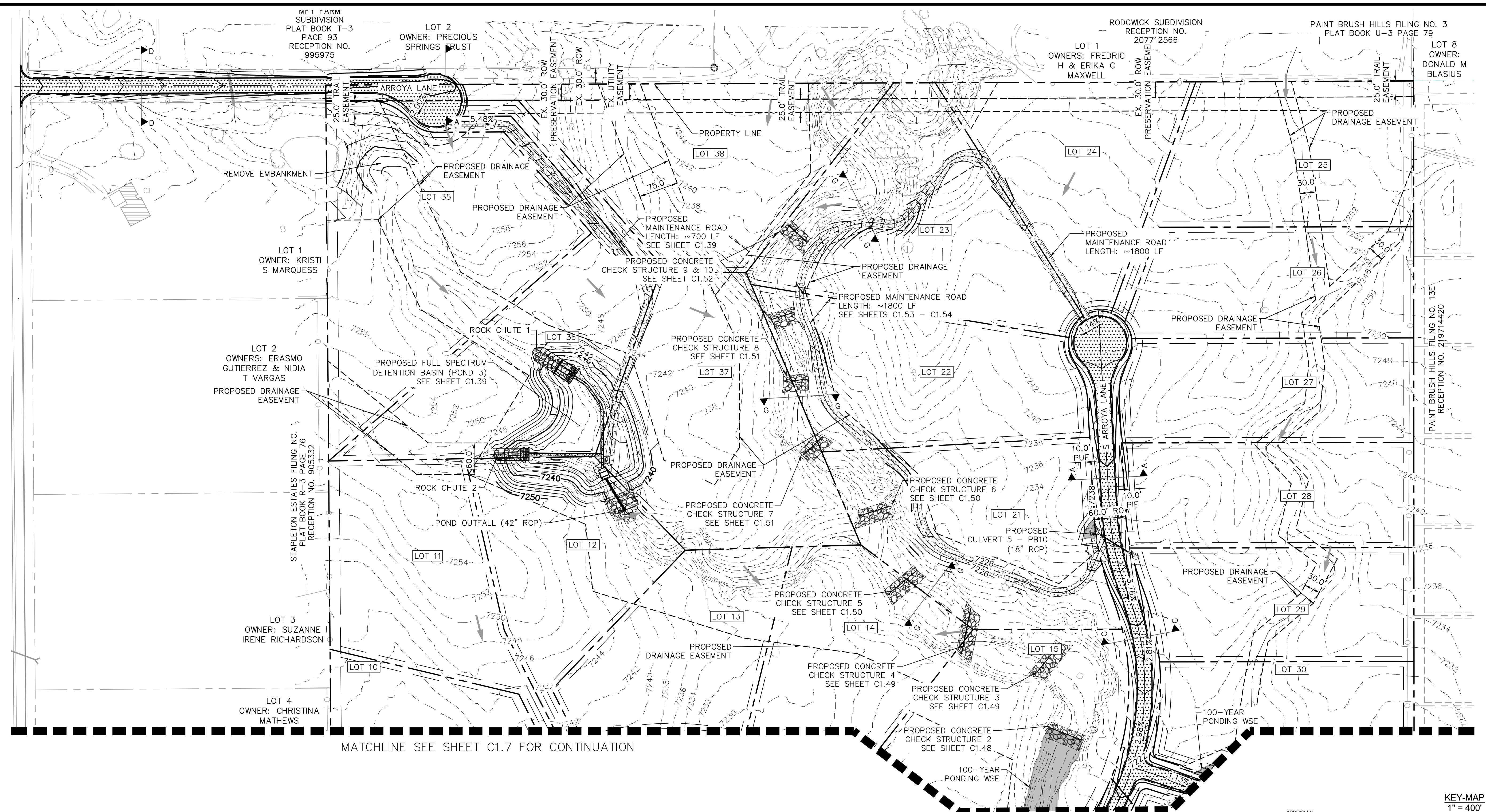
C1.5

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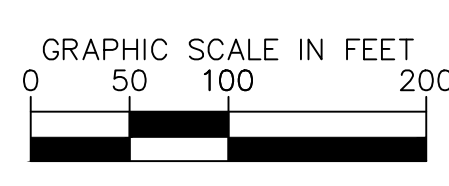
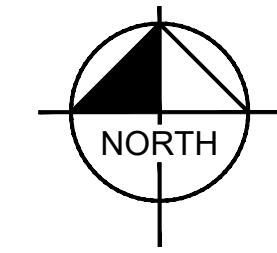


CALL UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

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MATCHLINE SEE SHEET C1.7 FOR CONTINUATION



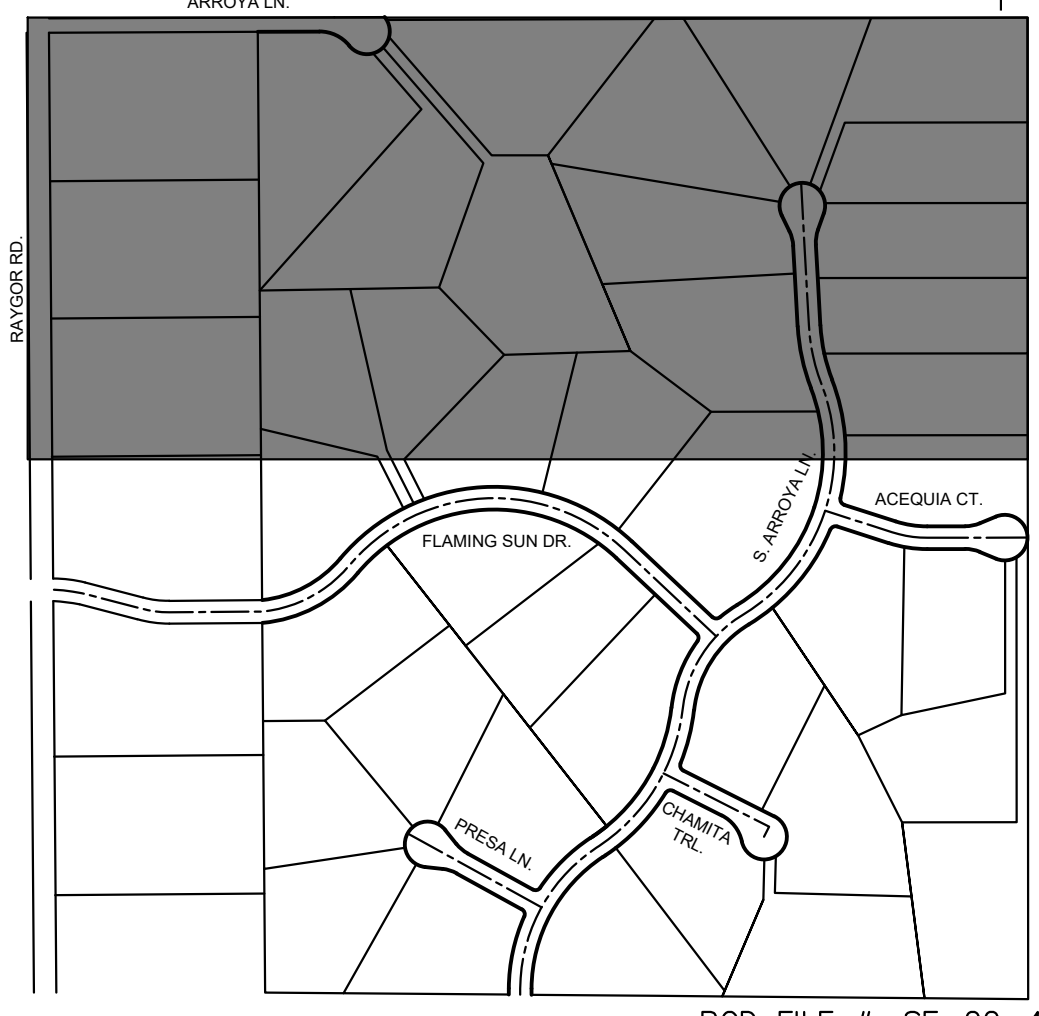
LEGEND

- PROPERTY/LOT LINE
- - - ROW LINE
- - - UTILITY EASEMENT LINE
- LOT #
- PROPOSED DRAINAGE EASEMENT
- CROSS SECTION (SEE SHEET C1.1)
- PROPOSED CULVERT

LEGEND

- 7XXX --- EXISTING MAJOR CONTOUR
- 7XXX --- EXISTING MINOR CONTOUR
- 7XXX --- PROPOSED MAJOR CONTOUR
- 7XXX --- PROPOSED MINOR CONTOUR
- PROPOSED ASPHALT PAVEMENT
- PROPOSED MAINTENANCE ROAD
- FLOW ARROW

KEY-MAP
1" = 400'



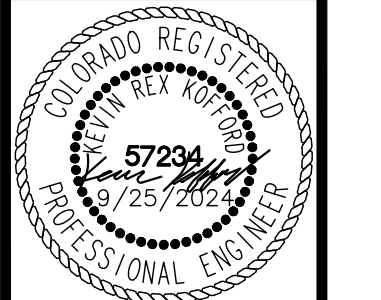
CALL UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

NO.	REVISION	BY	DATE	APPR

Kimley-Horn
2024 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 900
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK
DRAWN BY: MJK
CHECKED BY: KRK
DATE: 9/17/2024

EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
GRADING PLAN

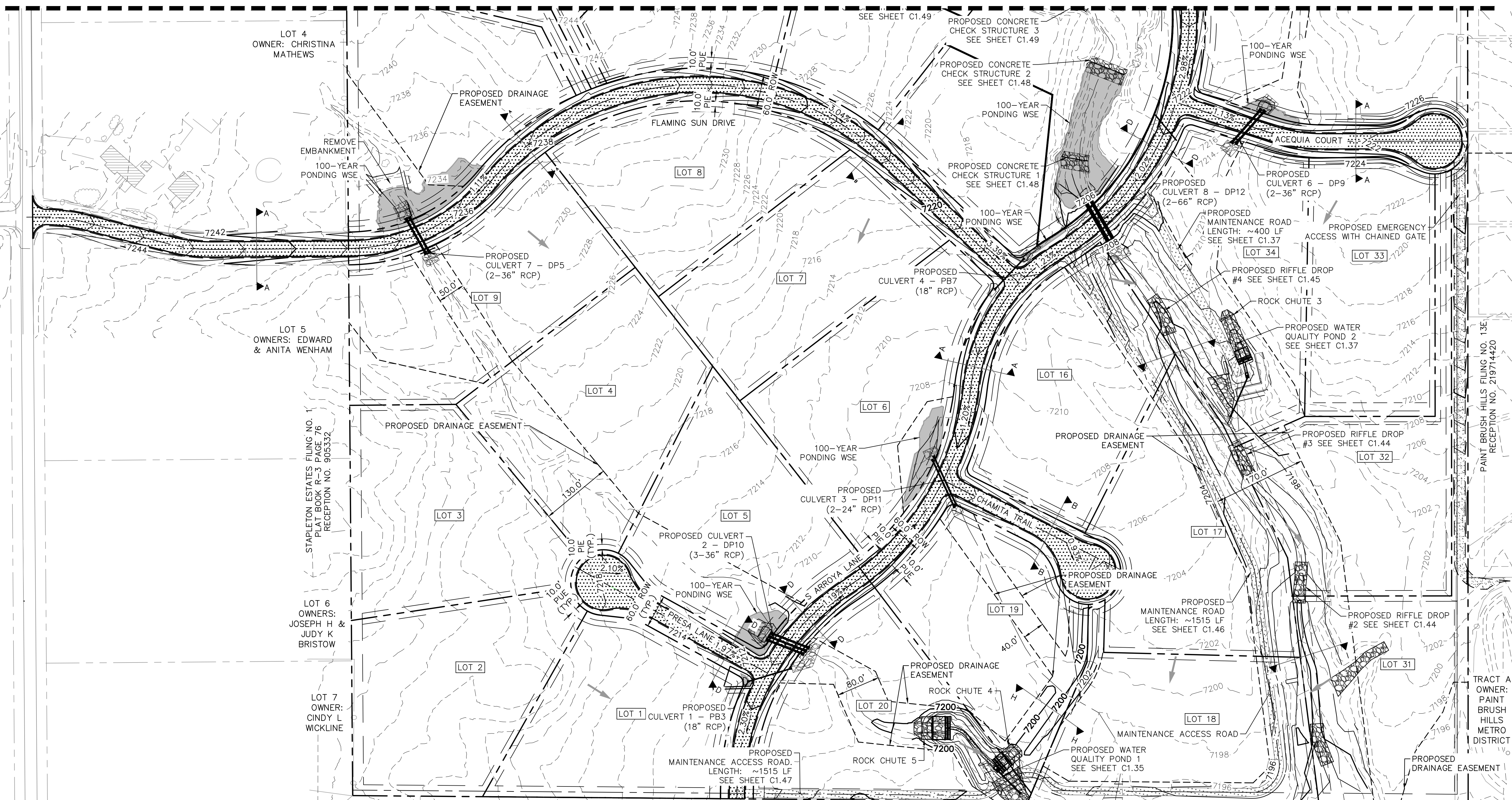


PROJECT NO.
196106001

SHEET
C1.6

PCD FILE # SF-22-42

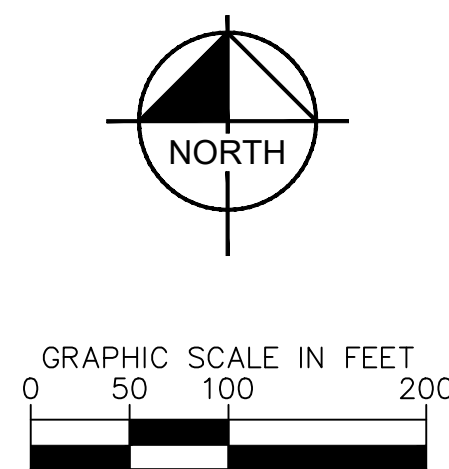
MATCHLINE SEE SHEET C1.6 FOR CONTINUATION



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CALL UTILITY NOTIFICATION CENTER OF COLORADO 1-800-922-1987



- LEGEND: PROPERTY/LOT LINE, ROW LINE, UTILITY EASEMENT LINE, LOT #, PROPOSED DRAINAGE EASEMENT, CROSS SECTION (SEE SHEET C1.1), PROPOSED CULVERT, EXISTING MAJOR CONTOUR, EXISTING MINOR CONTOUR, PROPOSED MAJOR CONTOUR, PROPOSED MINOR CONTOUR, PROPOSED ASPHALT PAVEMENT, PROPOSED MAINTENANCE ROAD, FLOW ARROW



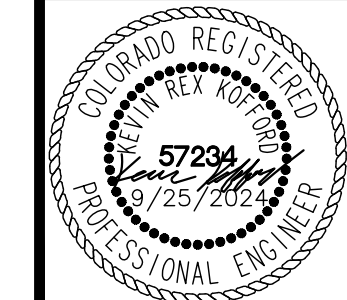
KEY-MAP 1" = 400'

Table with columns: NO., REVISION, BY, DATE, APPR.

Kimley-Horn logo and address: 2024 KIMLEY-HORN AND ASSOCIATES, INC. 2 North Nevada Avenue Suite 900 Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK, DRAWN BY: MJK, CHECKED BY: KRK, DATE: 9/17/2024

EAGLEVIEW EL PASO COUNTY, COLORADO CONSTRUCTION DOCUMENTS GRADING PLAN

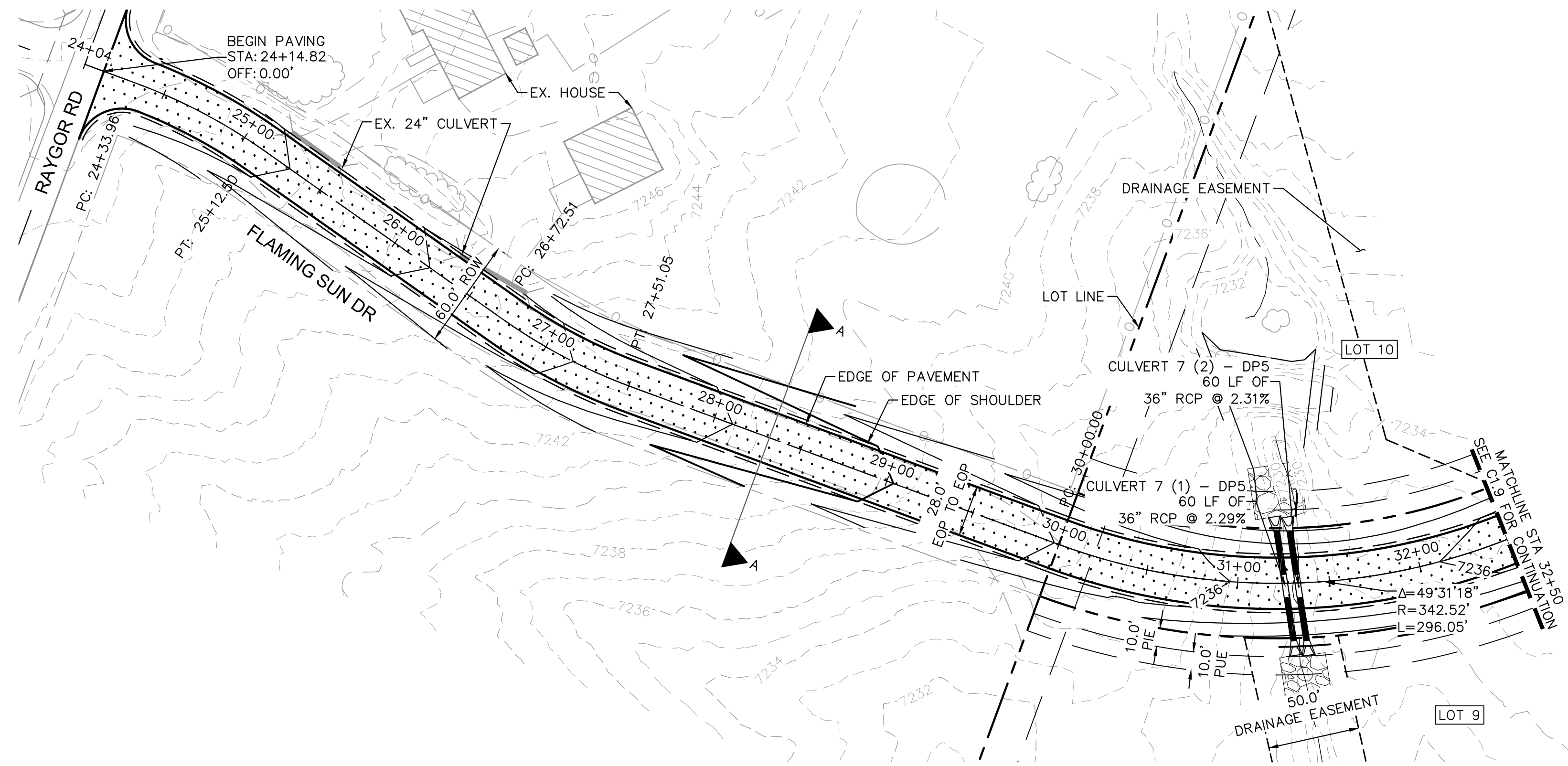


PROJECT NO. 196106001 SHEET

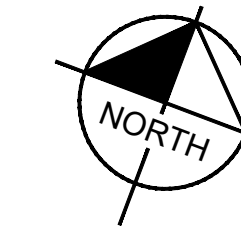
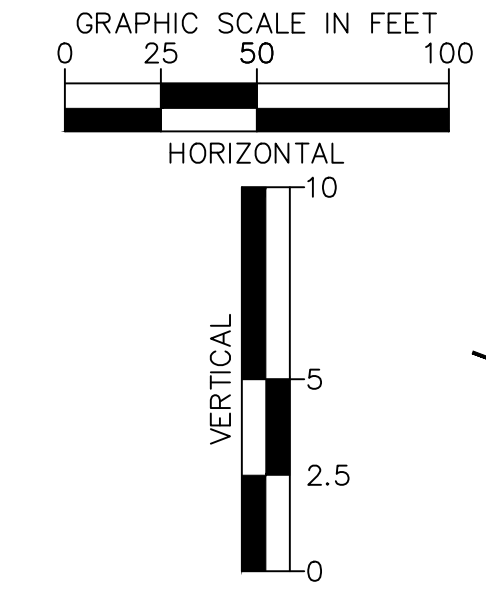
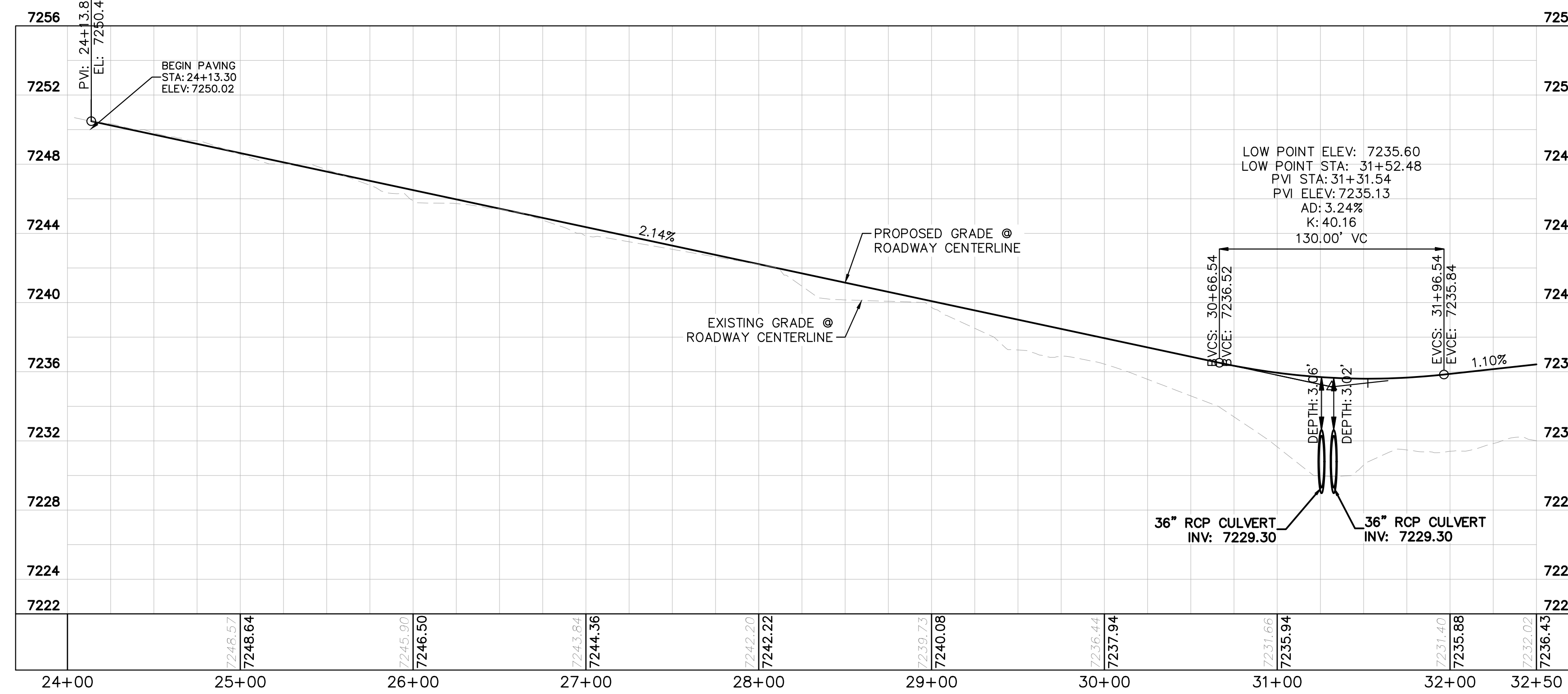
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PCD FILE #: SF-22-42

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FLAMING SUN DR. PROFILE
STA: 24+00 TO 32+50



LEGEND

- PROPERTY/LOT LINE
- ROW LINE
- UTILITY EASEMENT LINE
- LOT # LOT NUMBER
- x-x- PROPOSED DRAINAGE EASEMENT
- ▲-▲- CROSS SECTION (SEE SHEET C1.1)
- PROPOSED CULVERT
- EXISTING CULVERT
- 7XXX- EXISTING MAJOR CONTOUR
- 7XXX- EXISTING MINOR CONTOUR
- 7XXX--- PROPOSED MAJOR CONTOUR
- 7XXX--- PROPOSED MINOR CONTOUR
- PROPOSED EDGE OF PAVEMENT
- PROPOSED EDGE OF SHOULDER
- TURF REINFORCEMENT MAT
- ASPHALT PAVEMENT

NOTES

1. SEE SHEET C1.1 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.
2. PIE = PUBLIC IMPROVEMENT EASEMENT
3. PUE = PUBLIC UTILITY EASEMENT

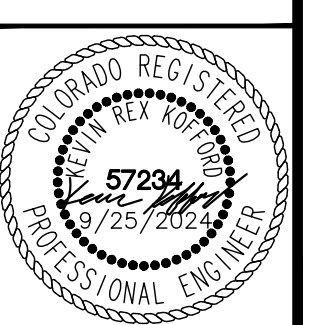


NO.	REVISION	BY	DATE	APPR.

Kimley»Horn
 2024 KIMLEY-HORN AND ASSOCIATES, INC.
 2 North Nevada Avenue Suite 900
 Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK
 DRAWN BY: MJK
 CHECKED BY: KRK
 DATE: 9/17/2024

EAGLEVIEW
 EL PASO COUNTY, COLORADO
 CONSTRUCTION DOCUMENTS
FLAMING SUN DR. PLAN & PROFILE

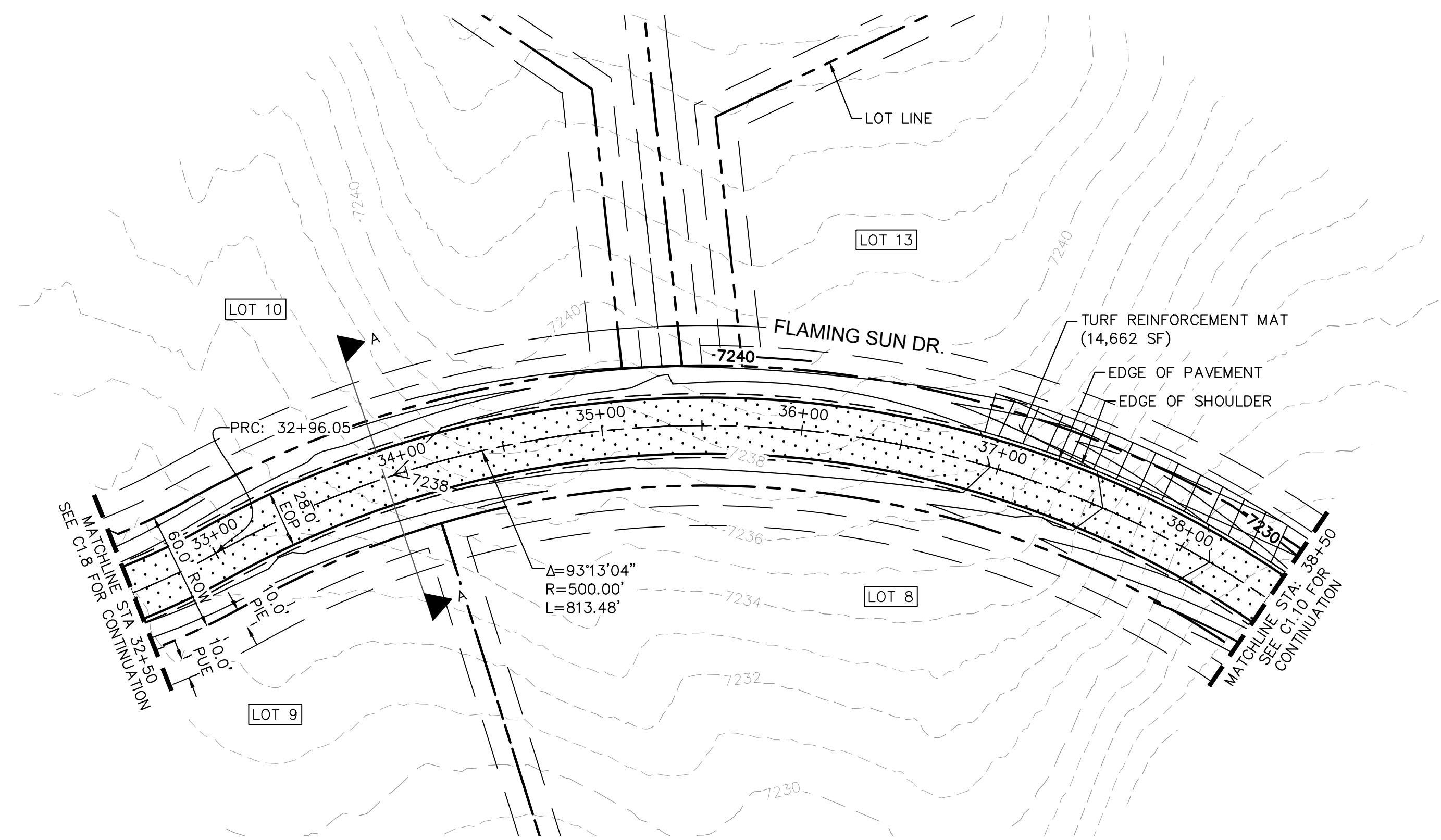


PROJECT NO.
196106001

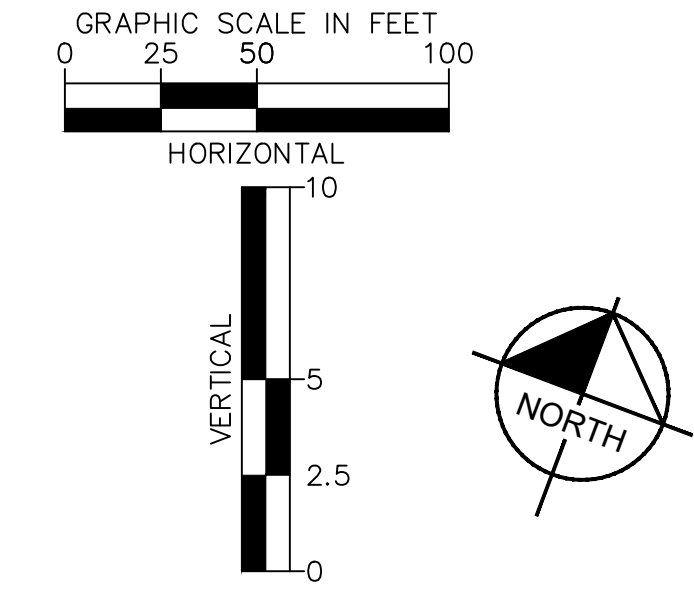
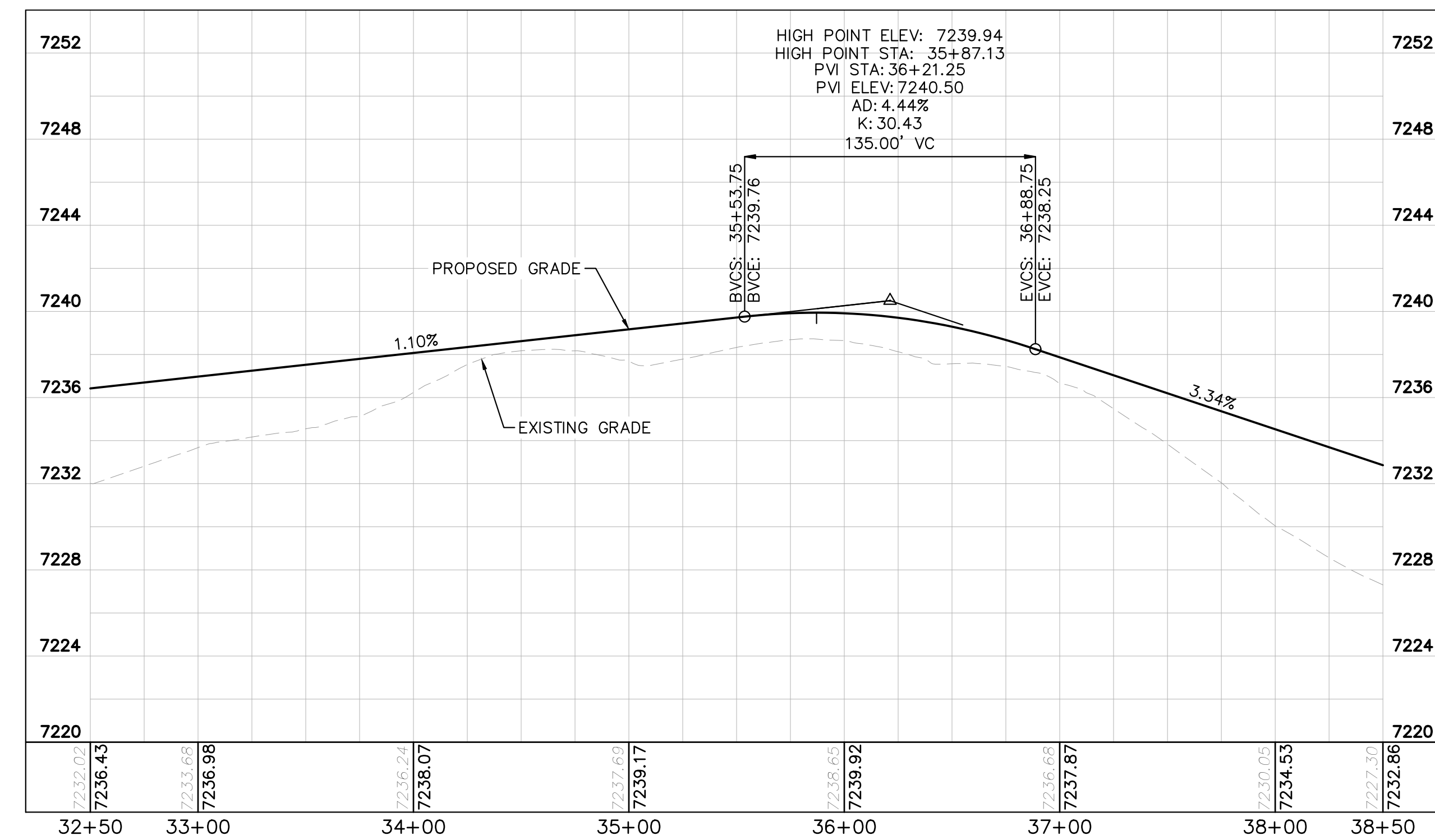
SHEET

C1.8

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FLAMING SUN DR. PROFILE
STA: 32+50 TO 38+50

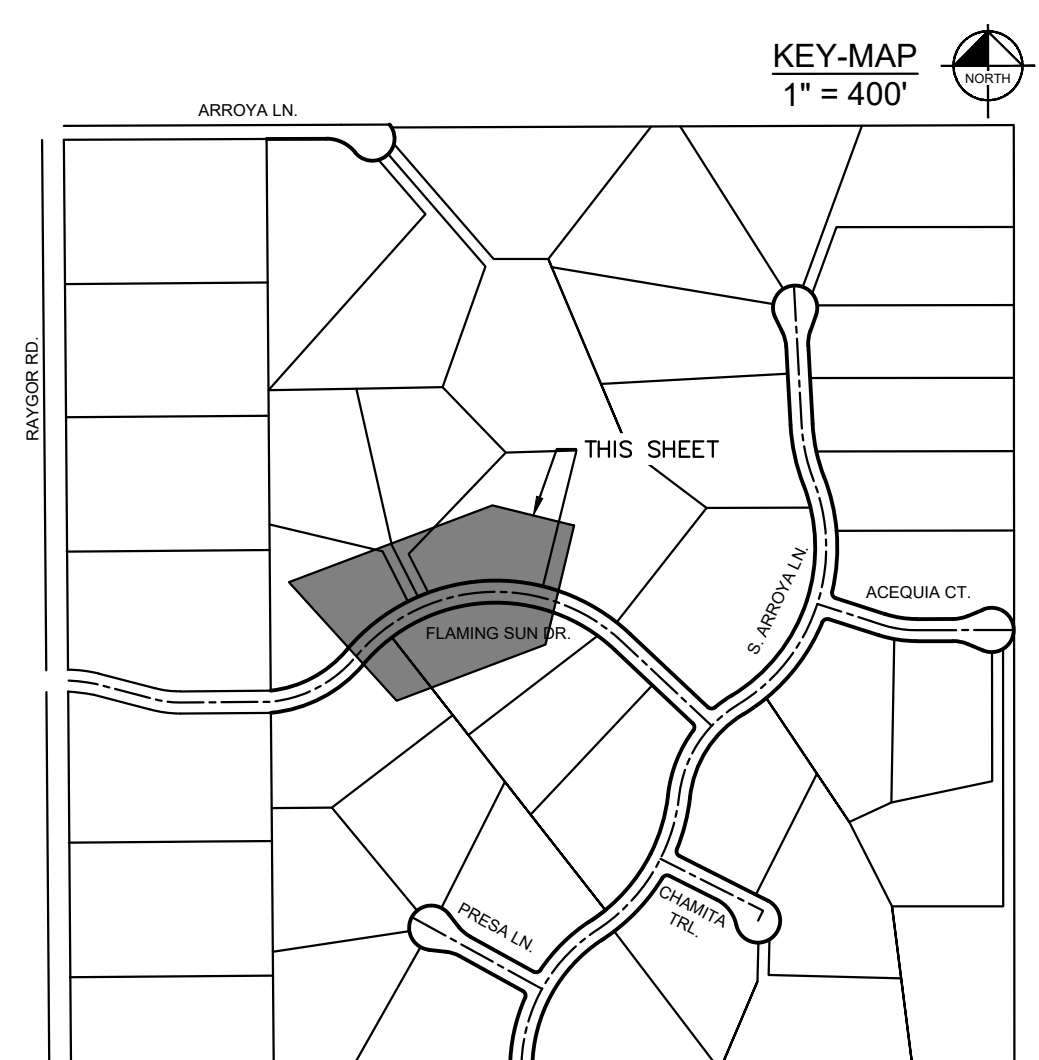


LEGEND

---	PROPERTY/LOT LINE
---	ROW LINE
---	UTILITY EASEMENT LINE
LOT #	LOT NUMBER
---	PROPOSED DRAINAGE EASEMENT
X X	CROSS SECTION (SEE SHEET C1.1)
---	PROPOSED CULVERT
---	EXISTING CULVERT
-7XXX-	EXISTING MAJOR CONTOUR
-7XXX-	EXISTING MINOR CONTOUR
7XXX	PROPOSED MAJOR CONTOUR
7XXX	PROPOSED MINOR CONTOUR
---	PROPOSED EDGE OF PAVEMENT
---	PROPOSED EDGE OF SHOULDER
X X X X	TURF REINFORCEMENT MAT
..	ASPHALT PAVEMENT

NOTES

- SEE SHEET C1.1 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.
- PIE = PUBLIC IMPROVEMENT EASEMENT
- PUE = PUBLIC UTILITY EASEMENT

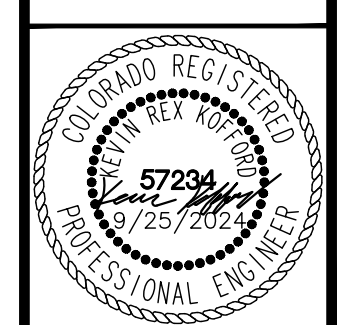


NO.	REVISION	BY	DATE	APPR.

Kimley»Horn
2024 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 900
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK
DRAWN BY: MJK
CHECKED BY: KKK
DATE: 9/17/2024

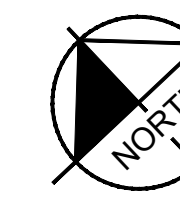
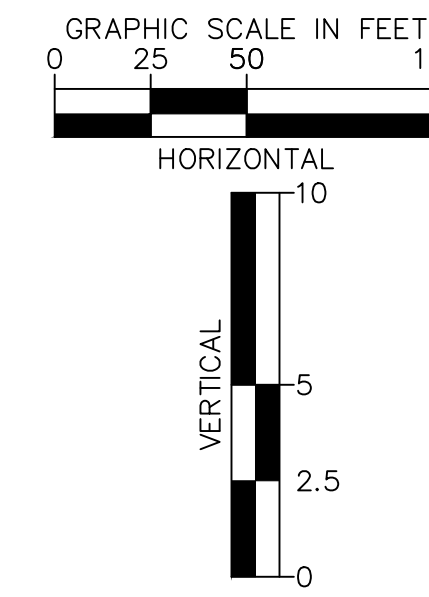
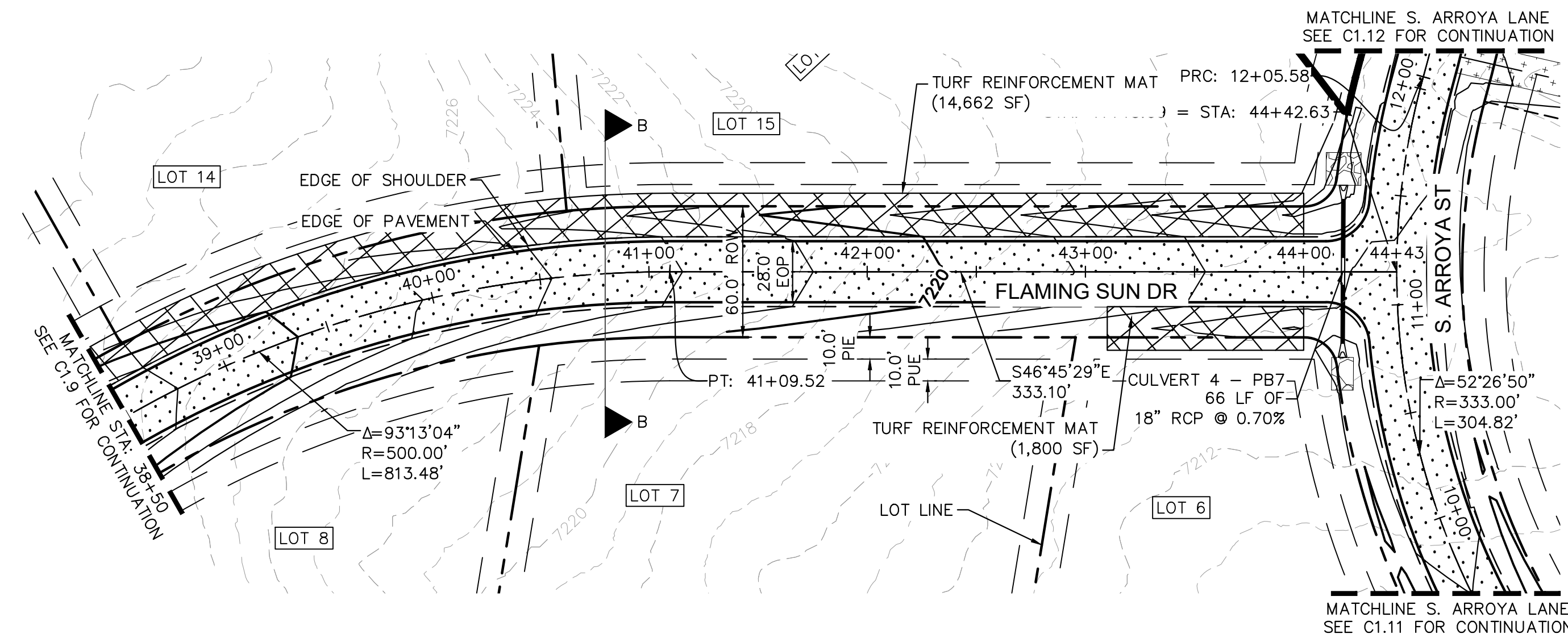
EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
FLAMING SUN DR. PLAN & PROFILE



PROJECT NO.
196106001
SHEET

C1.9

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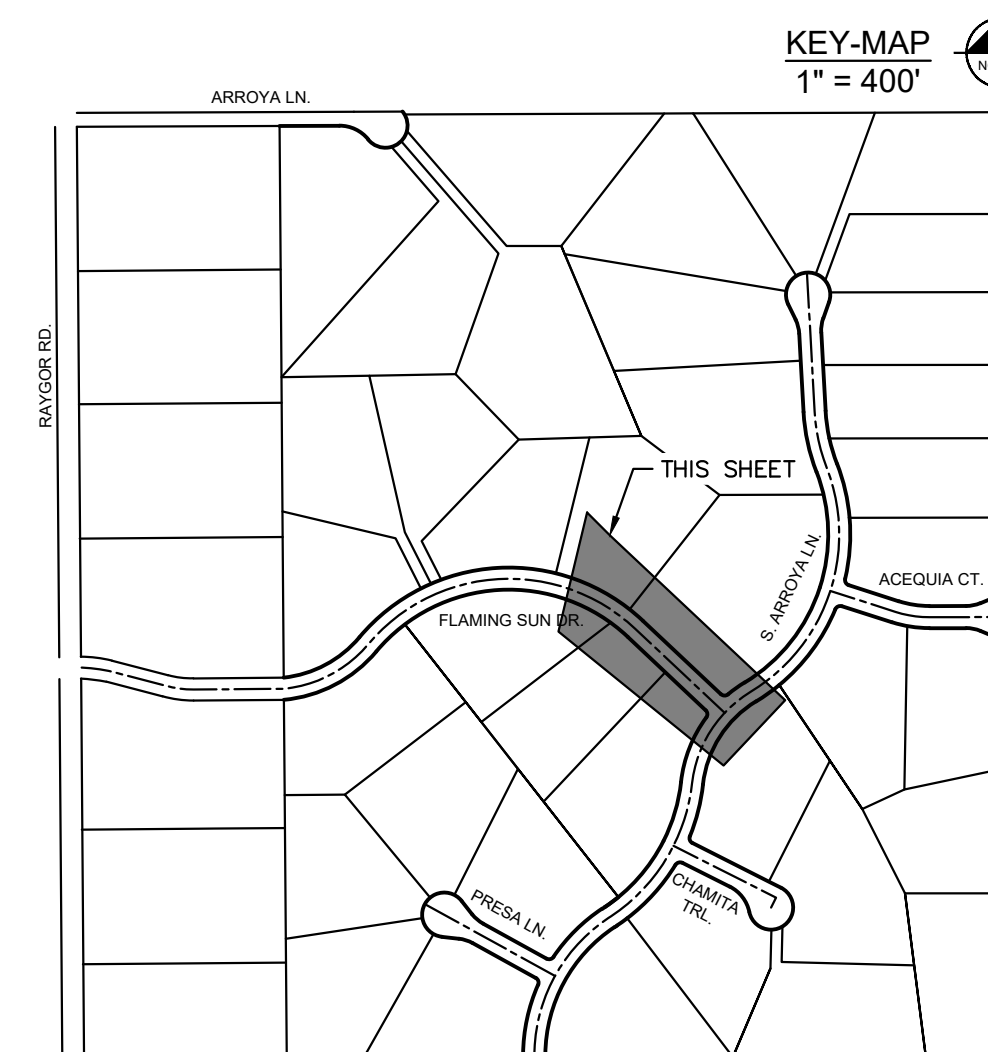
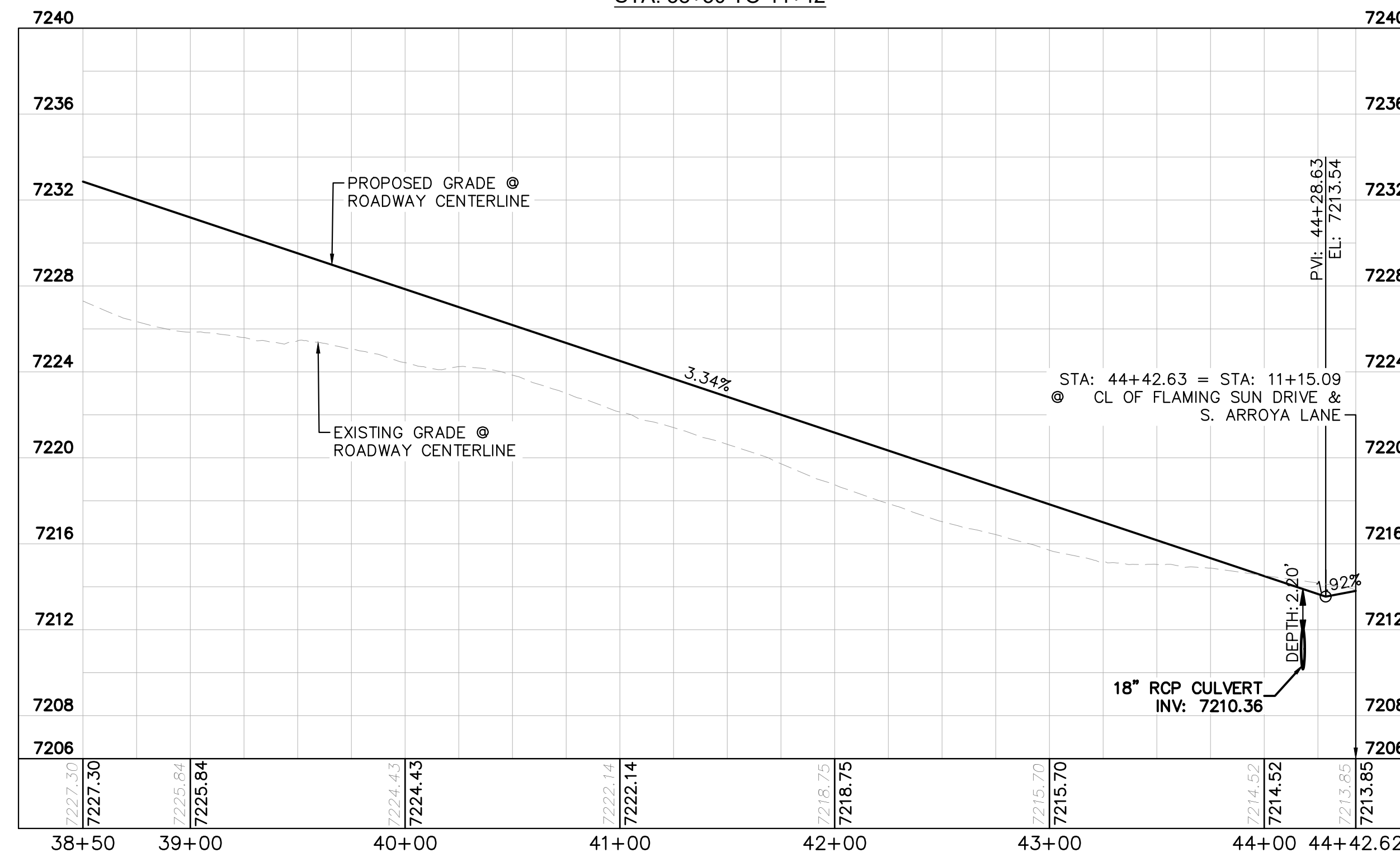
LEGEND

- PROPERTY/LOT LINE
- ROW LINE
- UTILITY EASEMENT LINE
- LOT # LOT NUMBER
- x-x- PROPOSED DRAINAGE EASEMENT
- ▲▲ CROSS SECTION (SEE SHEET C1.1)
- PROPOSED CULVERT
- EXISTING CULVERT
- 7XXX- EXISTING MAJOR CONTOUR
- 7XXX- EXISTING MINOR CONTOUR
- 7XXX PROPOSED MAJOR CONTOUR
- 7XXX PROPOSED MINOR CONTOUR
- PROPOSED EDGE OF PAVEMENT
- PROPOSED EDGE OF SHOULDER
- ▨ TURF REINFORCEMENT MAT
- ▨ ASPHALT PAVEMENT

NOTES

1. SEE SHEET C1.1 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.
2. PIE = PUBLIC IMPROVEMENT EASEMENT
3. PUE = PUBLIC UTILITY EASEMENT

FLAMING SUN DR. PROFILE
STA: 38+50 TO 44+42

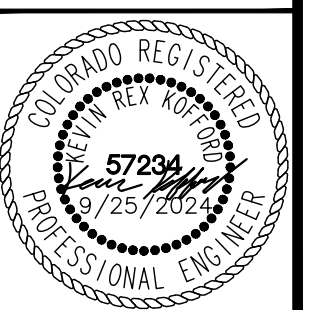


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 2024 KIMLEY-HORN AND ASSOCIATES, INC.
 2 North Nevada Avenue Suite 900
 Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK
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 CHECKED BY: KKK
 DATE: 9/17/2024

EAGLEVIEW
 EL PASO COUNTY, COLORADO
 CONSTRUCTION DOCUMENTS
FLAMING SUN DR. PLAN & PROFILE



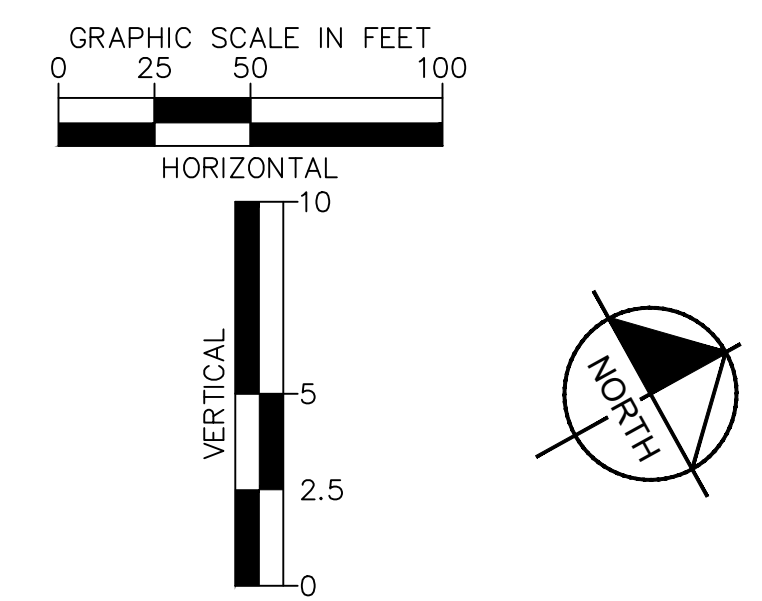
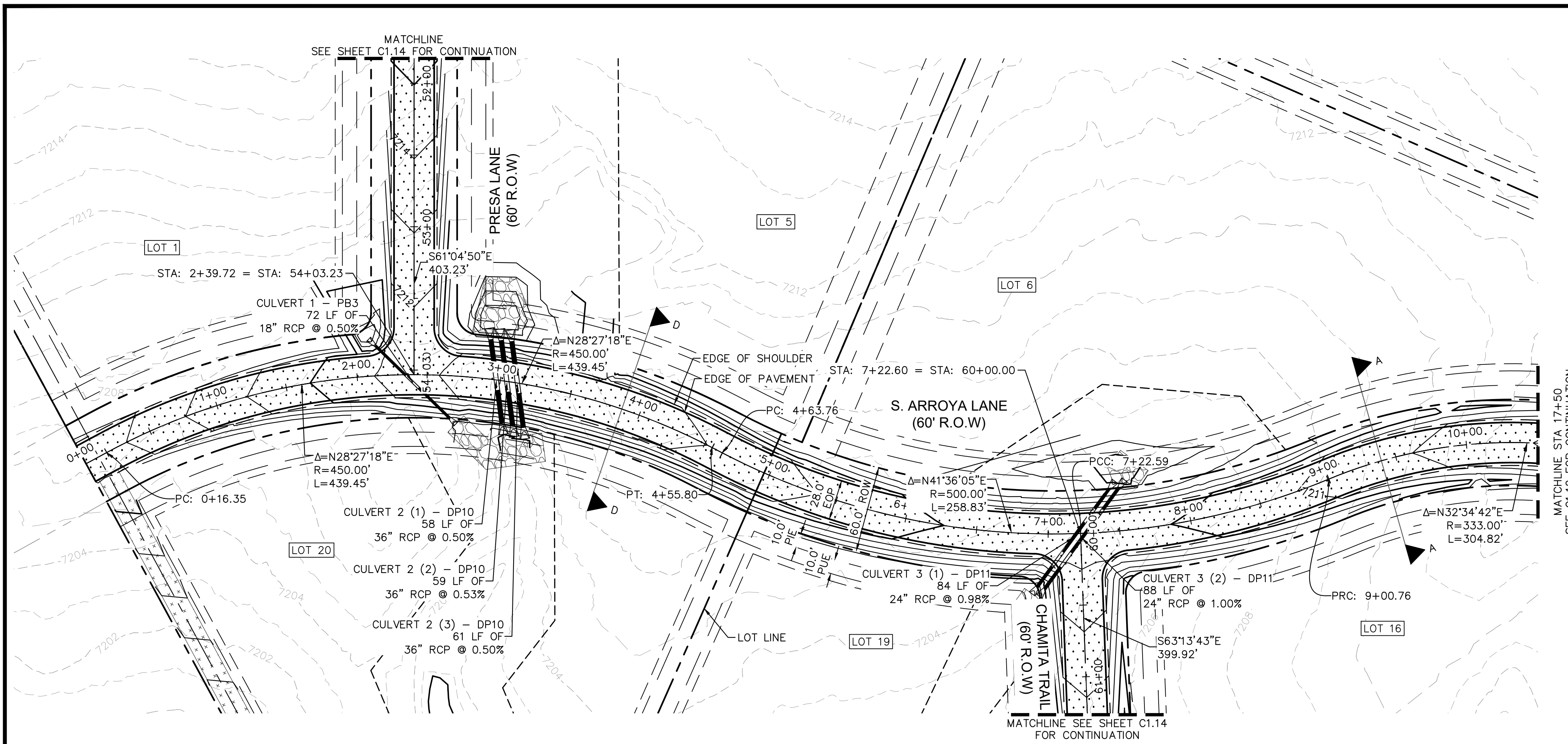
PROJECT NO.
196106001

SHEET

C1.10

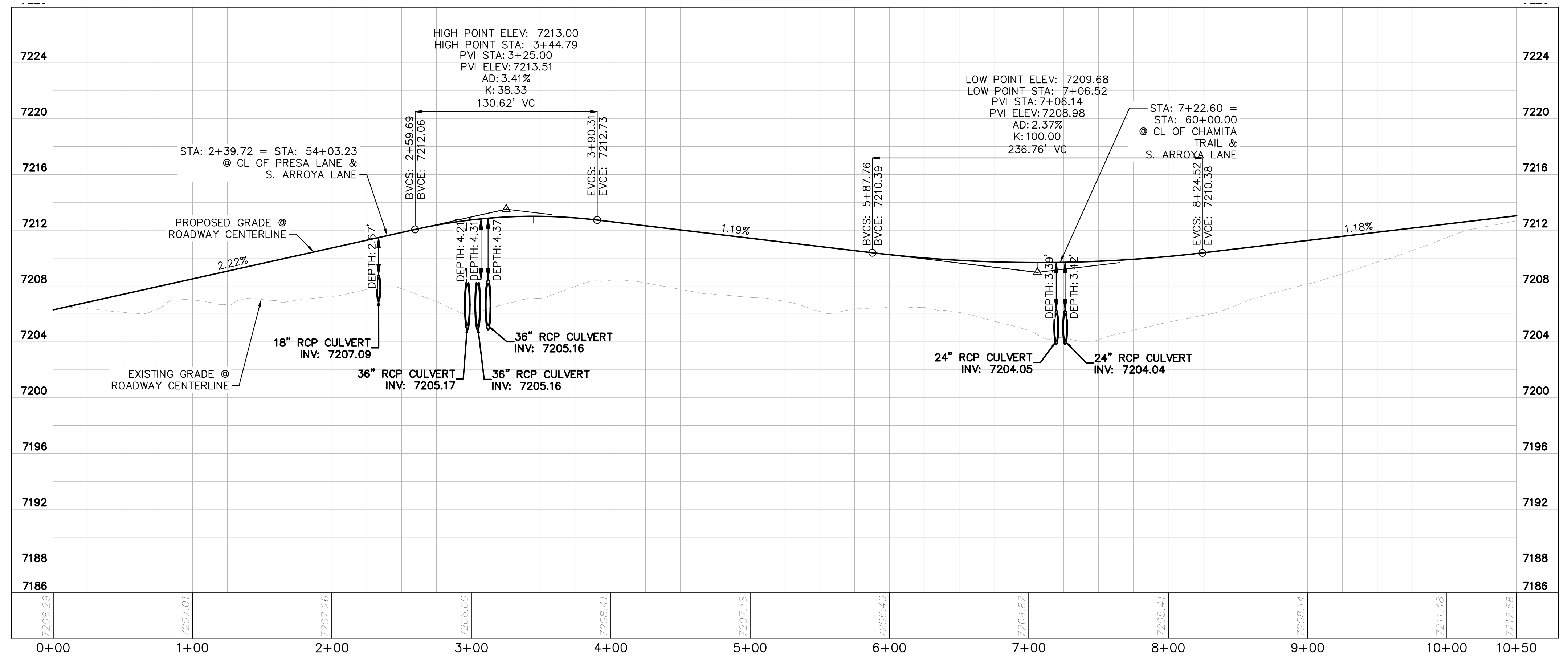
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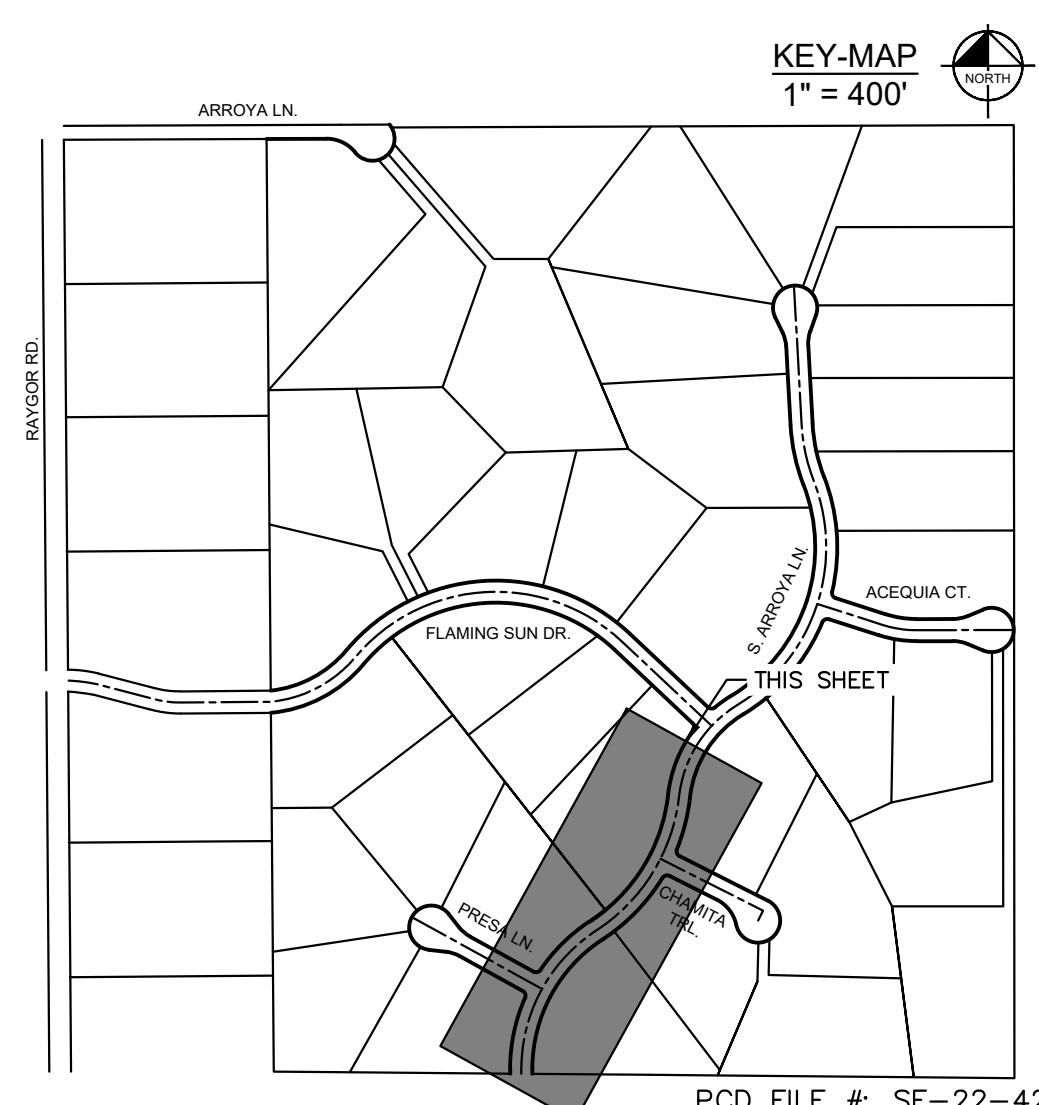


- LEGEND**
- PROPERTY/LOT LINE
 - ROW LINE
 - UTILITY EASEMENT LINE
 - LOT # LOT NUMBER
 - x-x-x- PROPOSED DRAINAGE EASEMENT
 - x-x-x- CROSS SECTION (SEE SHEET C1.1)
 - PROPOSED CULVERT
 - EXISTING CULVERT
 - 7XXX- EXISTING MAJOR CONTOUR
 - 7XXX- EXISTING MINOR CONTOUR
 - 7XXX- PROPOSED MAJOR CONTOUR
 - 7XXX- PROPOSED MINOR CONTOUR
 - PROPOSED EDGE OF PAVEMENT
 - PROPOSED EDGE OF SHOULDER
 - TURF REINFORCEMENT MAT
 - ASPHALT PAVEMENT

**S. ARROYA LANE PROFILE
STA: 0+00 TO 10+50**



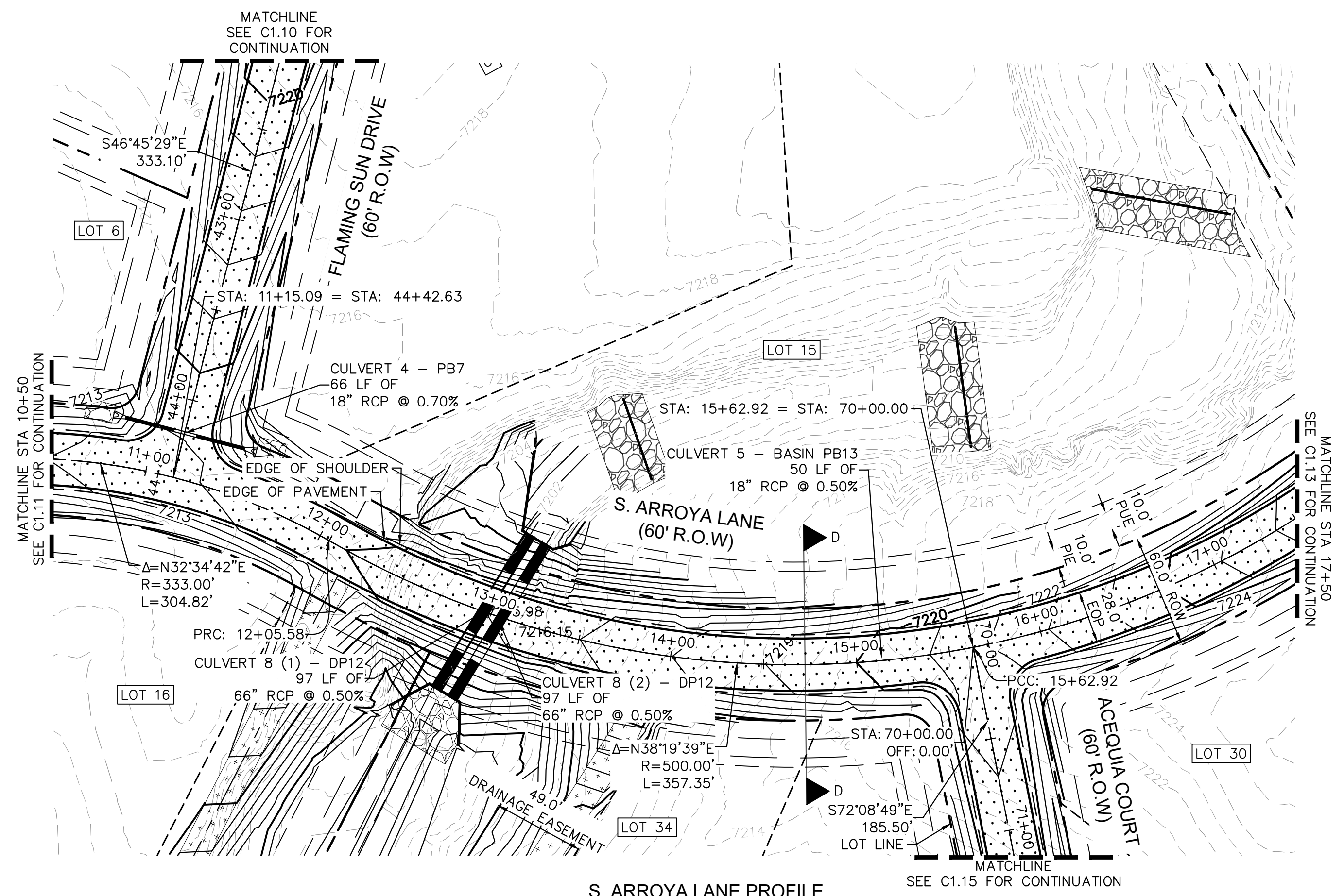
- NOTES**
1. SEE SHEET C1.1 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.
 2. PIE = PUBLIC IMPROVEMENT EASEMENT
 3. PUE = PUBLIC UTILITY EASEMENT



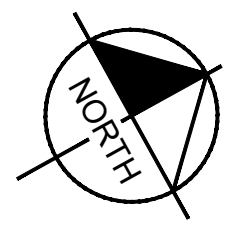
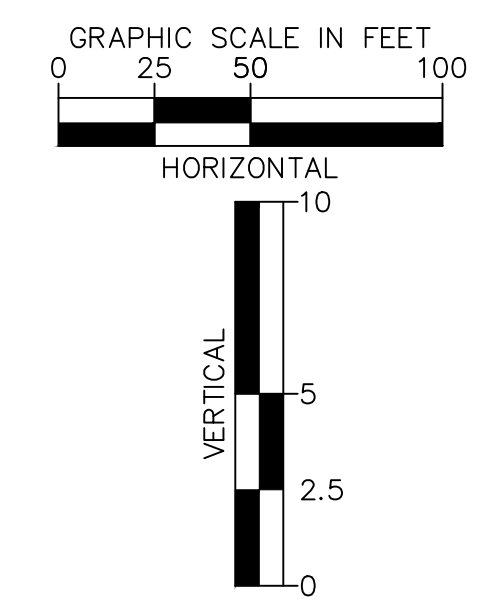
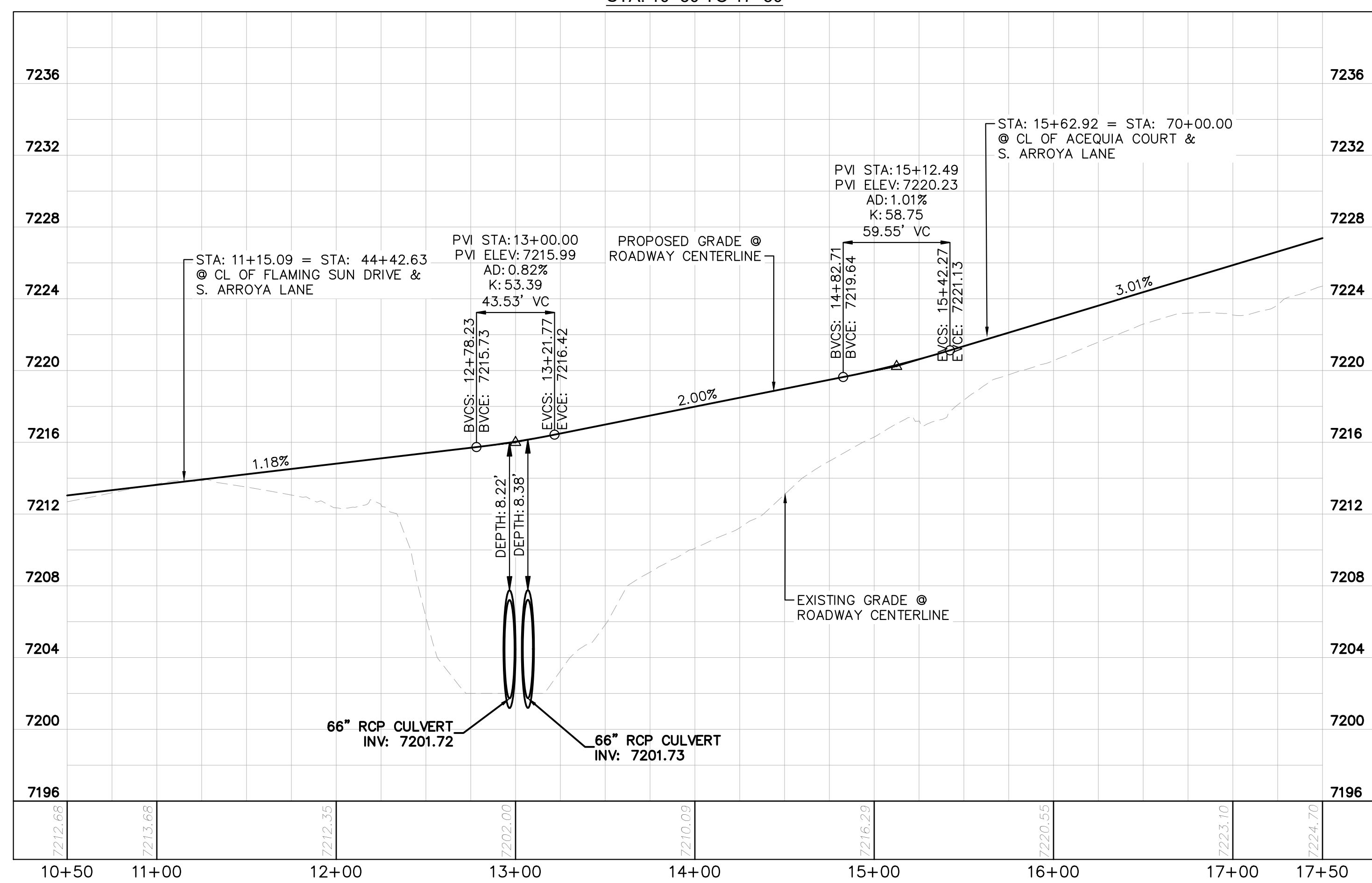
<p>2024 KIMLEY-HORN AND ASSOCIATES, INC. 2 North Nevada Avenue Suite 900 Colorado Springs, Colorado 80903 (719) 453-0180</p>	<p>DESIGNED BY: MJK DRAWN BY: MJK CHECKED BY: KKK DATE: 9/17/2024</p>
<p>EAGLEVIEW EL PASO COUNTY, COLORADO CONSTRUCTION DOCUMENTS S. ARROYA LN. PLAN & PROFILE</p>	
<p>PROJECT NO. 196106001 SHEET C1.11</p>	

PCD FILE #: SF-22-42

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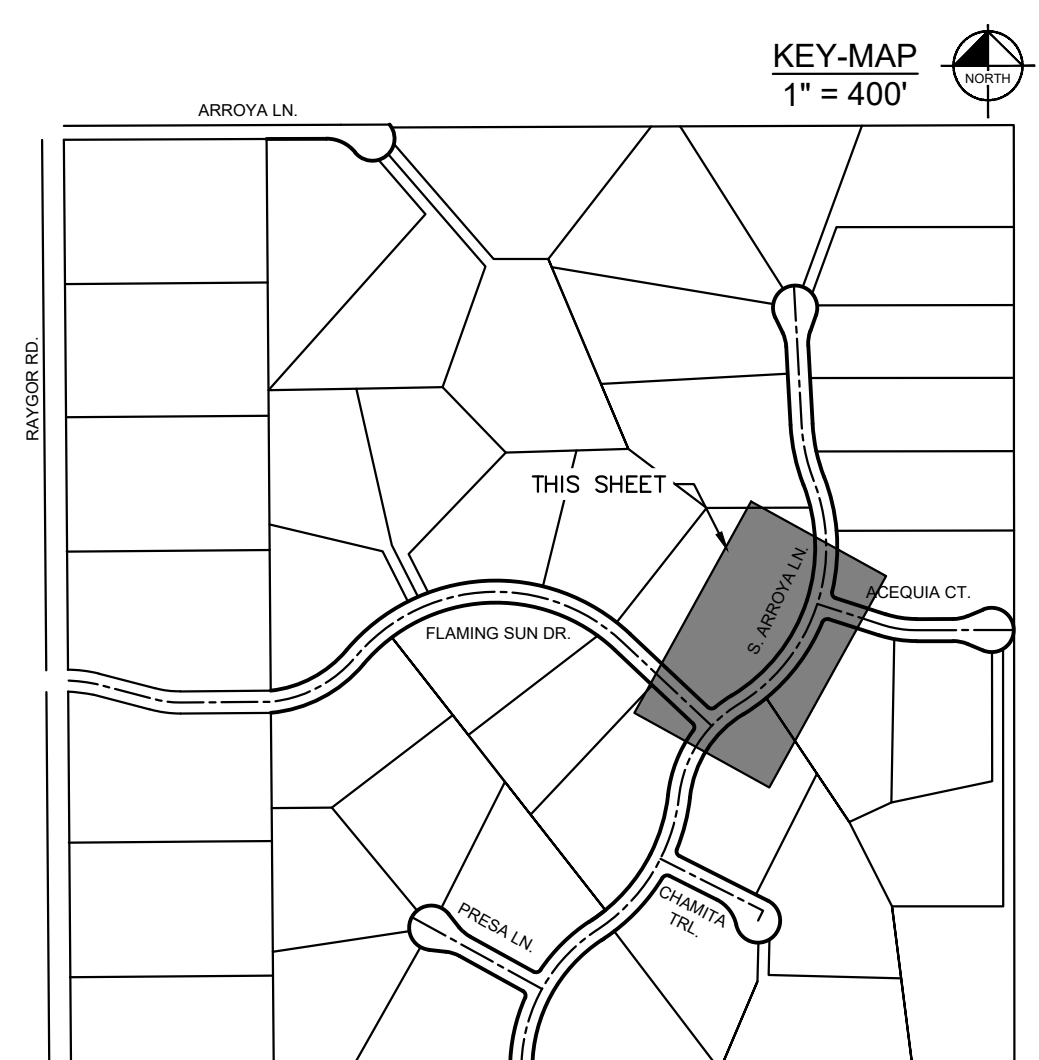
S. ARROYA LANE PROFILE
STA: 10+50 TO 17+50



- LEGEND**
- PROPERTY/LOT LINE
 - ROW LINE
 - UTILITY EASEMENT LINE
 - LOT # LOT NUMBER
 - x-x-x- PROPOSED DRAINAGE EASEMENT
 - ▲ x ▲ CROSS SECTION (SEE SHEET C1.1)
 - PROPOSED CULVERT
 - EXISTING CULVERT
 - 7XXX- EXISTING MAJOR CONTOUR
 - 7XXX- EXISTING MINOR CONTOUR
 - 7XXX PROPOSED MAJOR CONTOUR
 - 7XXX PROPOSED MINOR CONTOUR
 - PROPOSED EDGE OF PAVEMENT
 - PROPOSED EDGE OF SHOULDER
 - ▲▲▲▲ TURF REINFORCEMENT MAT
 - ASPHALT PAVEMENT

NOTES

1. SEE SHEET C1.1 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.
2. PIE = PUBLIC IMPROVEMENT EASEMENT
3. PUE = PUBLIC UTILITY EASEMENT

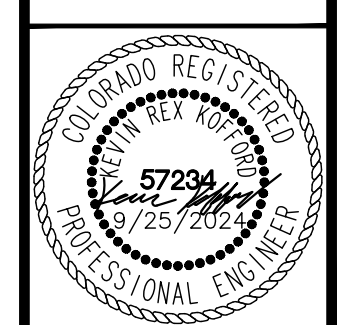


NO.	REVISION	BY	DATE	APPR.

Kimley»Horn
2024 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 900
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK
DRAWN BY: MJK
CHECKED BY: KKK
DATE: 9/17/2024

EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
S. ARROYA LN. PLAN & PROFILE

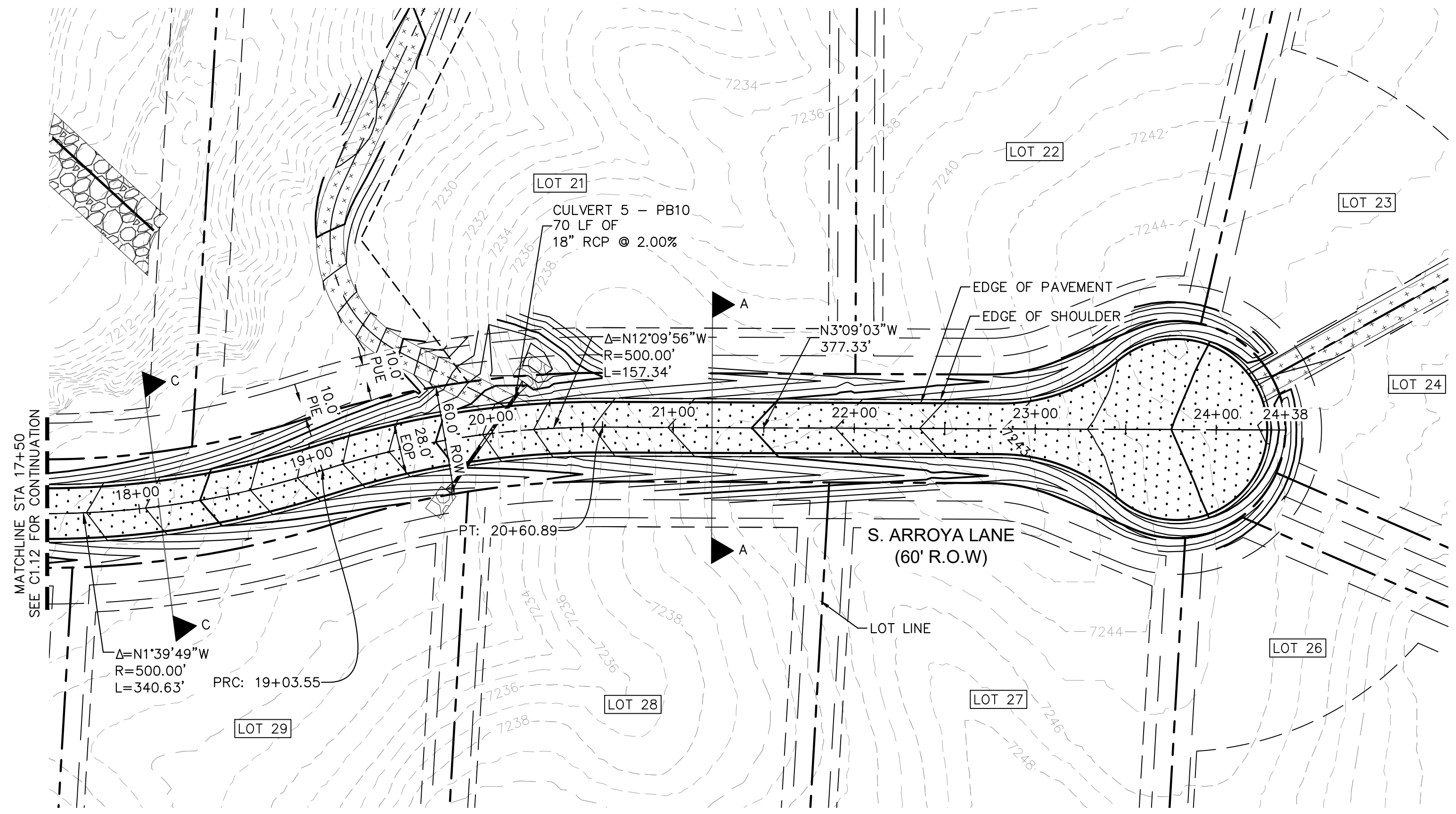


PROJECT NO.
196106001
SHEET

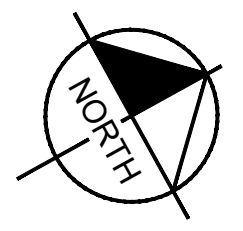
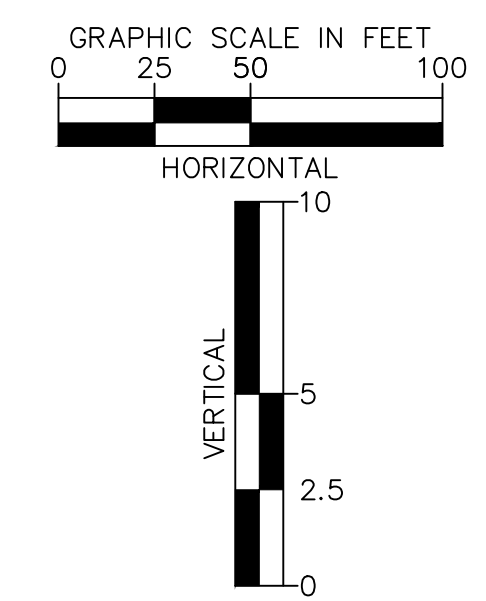
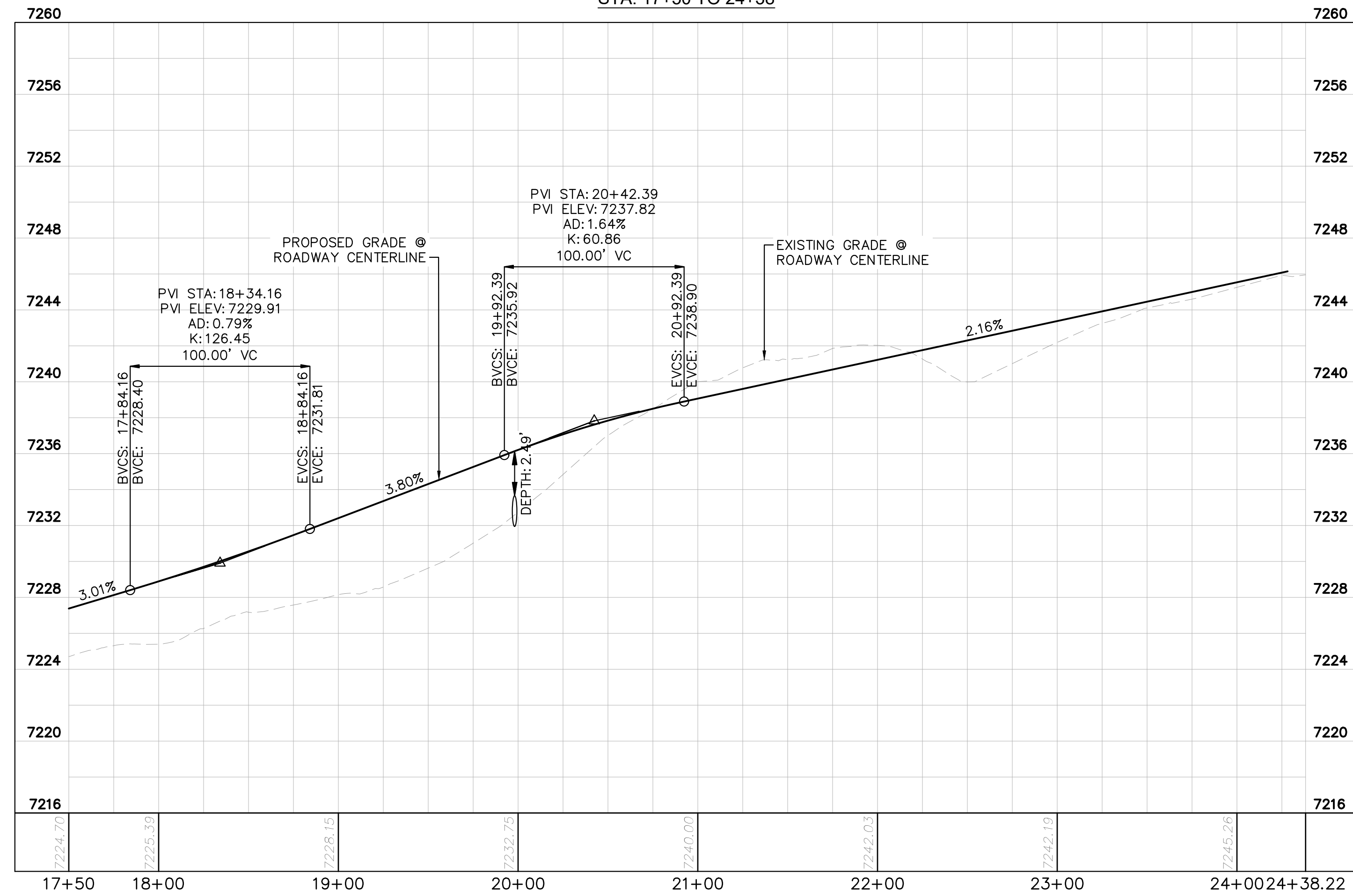
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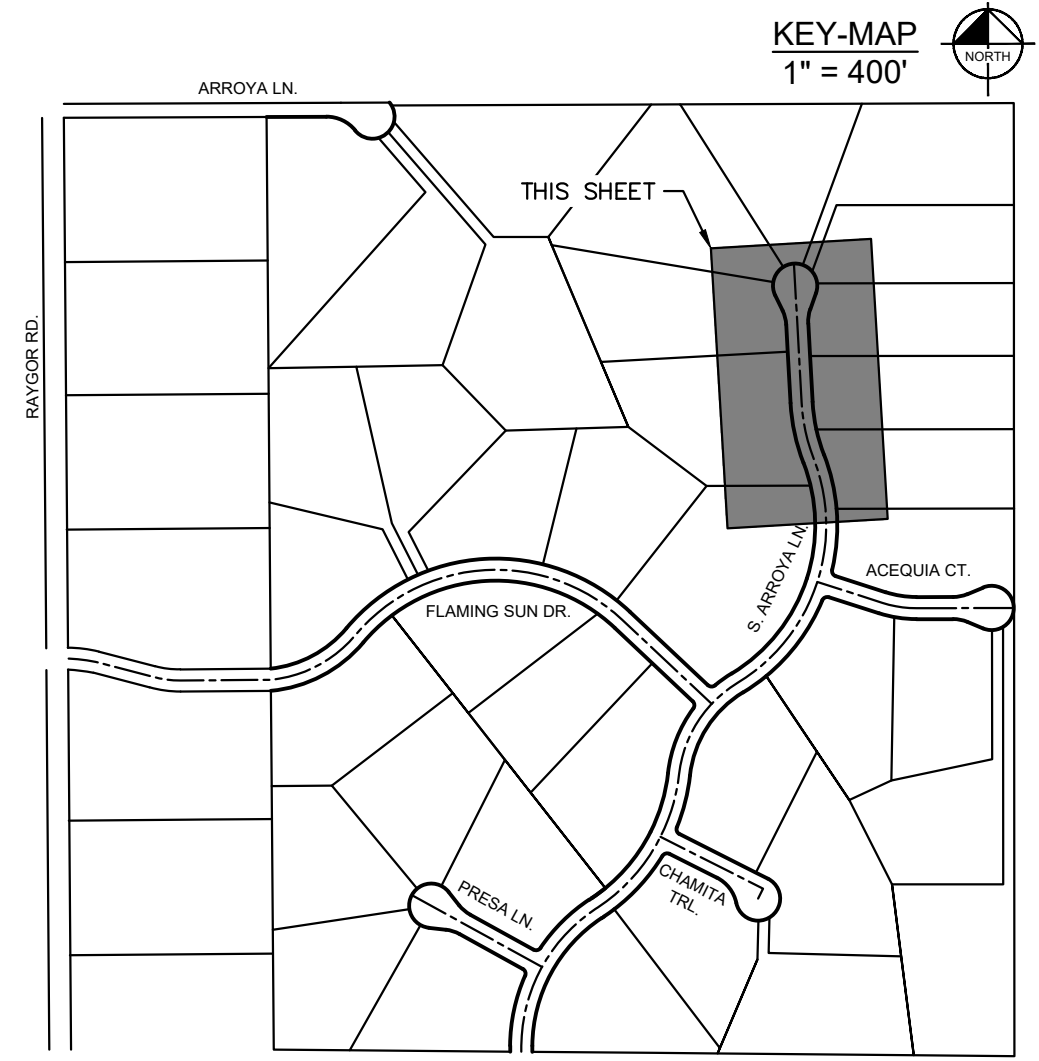
S. ARROYA LANE PROFILE
STA: 17+50 TO 24+38



- LEGEND**
- PROPERTY/LOT LINE
 - ROW LINE
 - UTILITY EASEMENT LINE
 - LOT # LOT NUMBER
 - x-x- PROPOSED DRAINAGE EASEMENT
 - ▲▲ CROSS SECTION (SEE SHEET C1.1)
 - PROPOSED CULVERT
 - EXISTING CULVERT
 - 7XXX- EXISTING MAJOR CONTOUR
 - 7XXX- EXISTING MINOR CONTOUR
 - 7XXX--- PROPOSED MAJOR CONTOUR
 - 7XXX--- PROPOSED MINOR CONTOUR
 - PROPOSED EDGE OF PAVEMENT
 - PROPOSED EDGE OF SHOULDER
 - ▨ TURF REINFORCEMENT MAT
 - ▨ ASPHALT PAVEMENT

NOTES

1. SEE SHEET C1.1 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.
2. PIE = PUBLIC IMPROVEMENT EASEMENT
3. PUE = PUBLIC UTILITY EASEMENT



NO.	REVISION	BY	DATE	APPR.

Kimley»Horn
 2024 KIMLEY-HORN AND ASSOCIATES, INC.
 2 North Nevada Avenue Suite 900
 Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK
 DRAWN BY: MJK
 CHECKED BY: KKK
 DATE: 9/17/2024

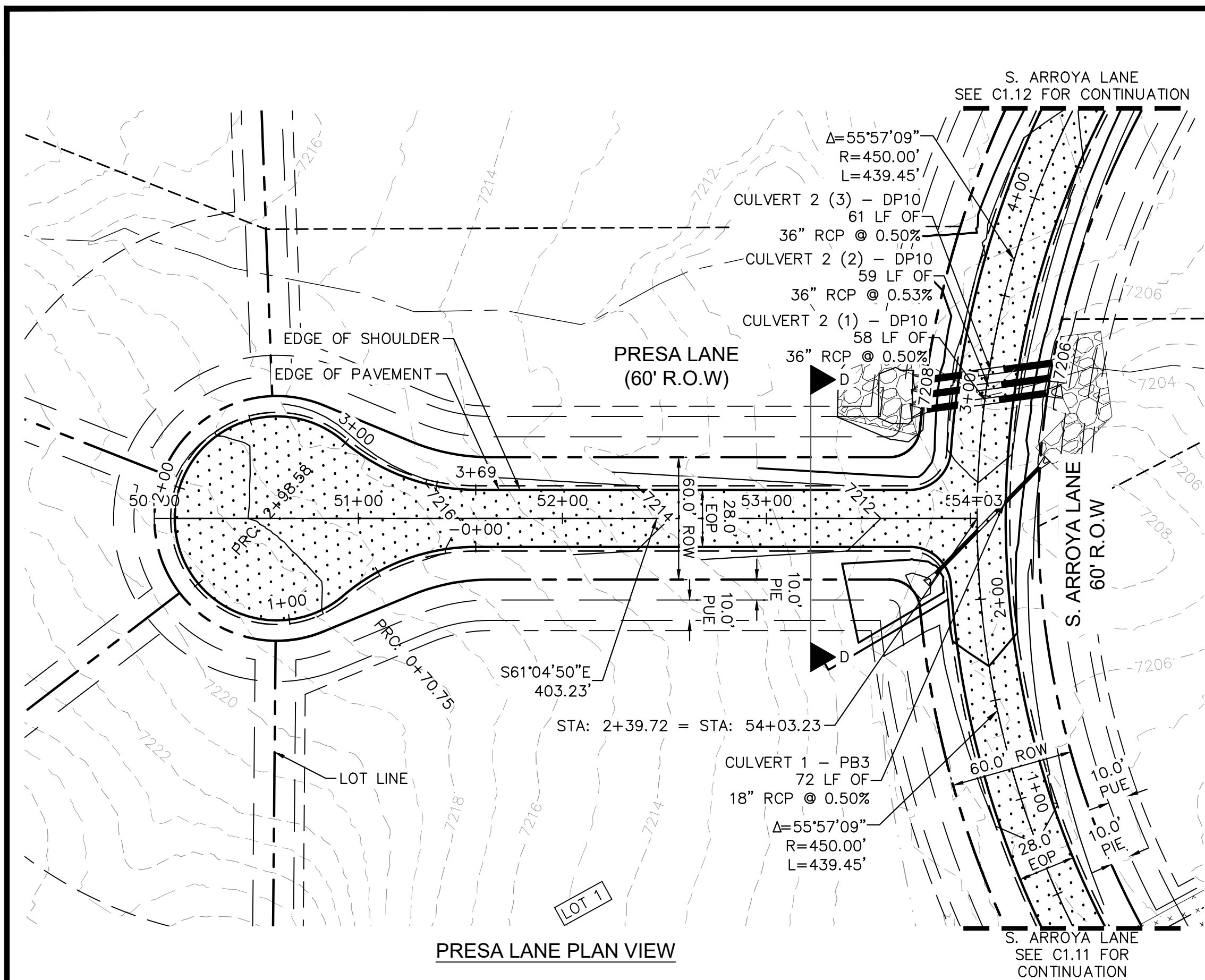
EAGLEVIEW
 EL PASO COUNTY, COLORADO
 CONSTRUCTION DOCUMENTS
S. ARROYA LN. PLAN & PROFILE

PROJECT NO. 196106001
 SHEET
C1.13

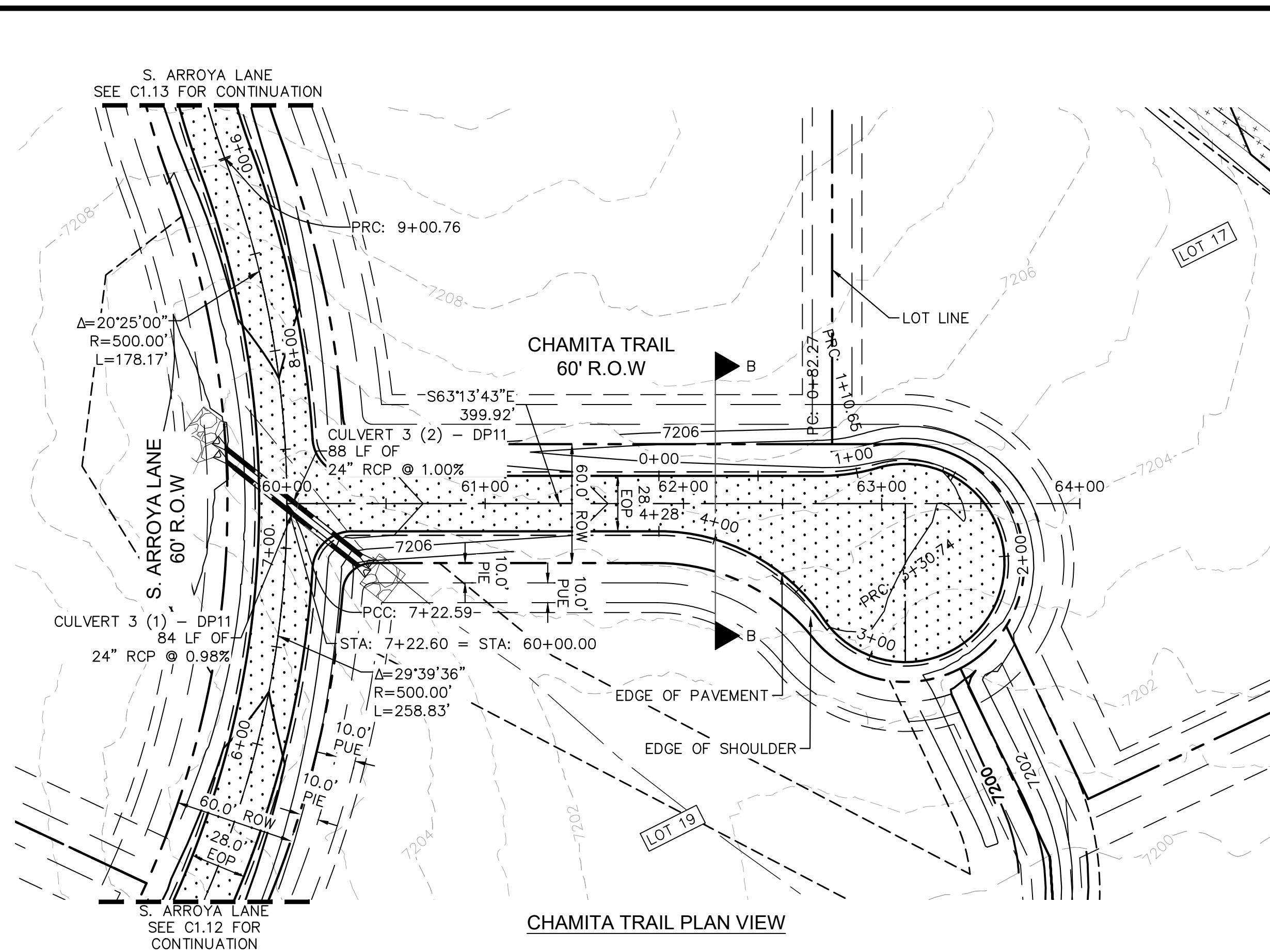
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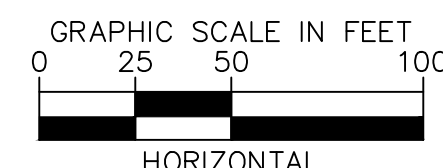
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PRESA LANE PLAN VIEW



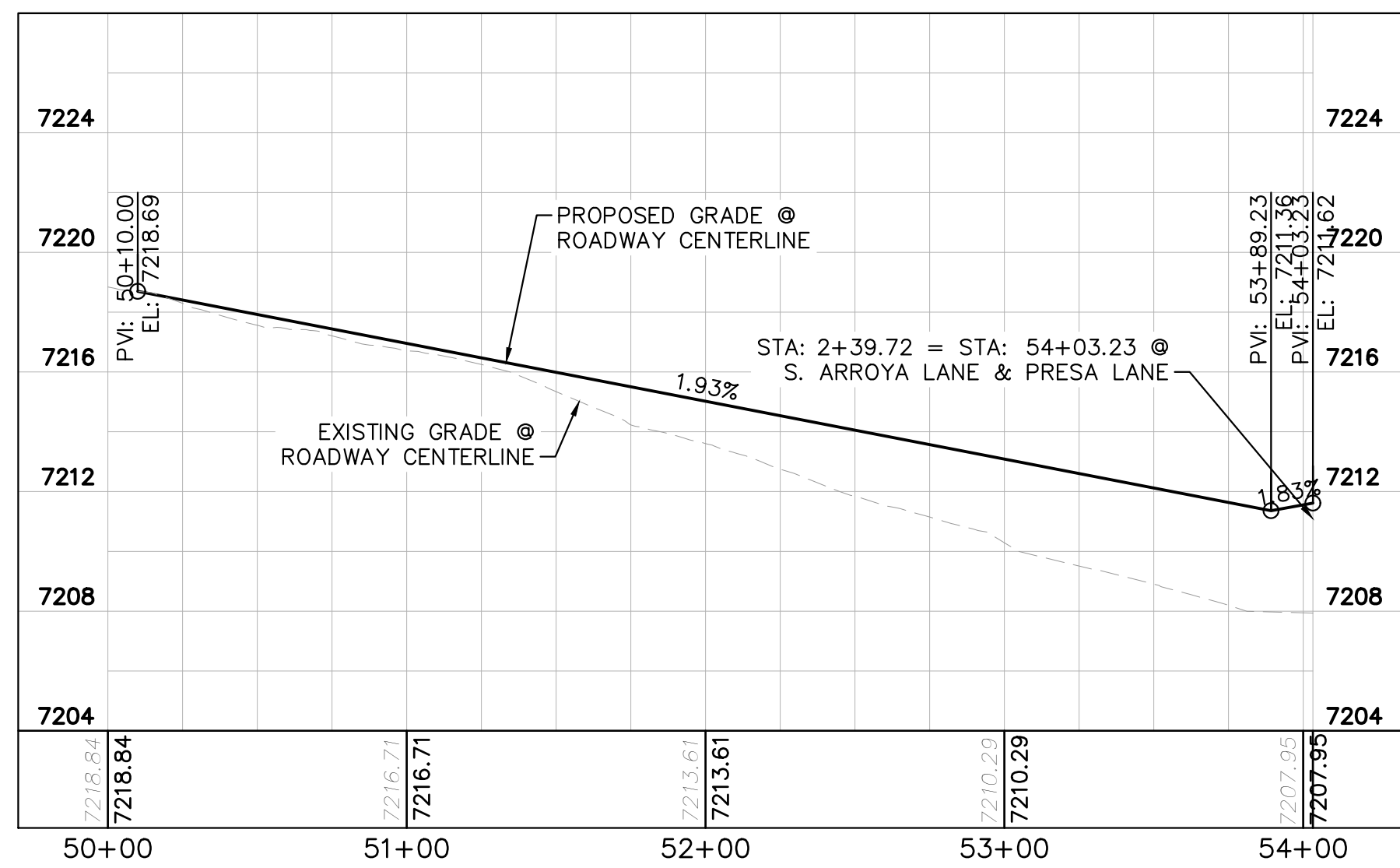
CHAMITA TRAIL PLAN VIEW



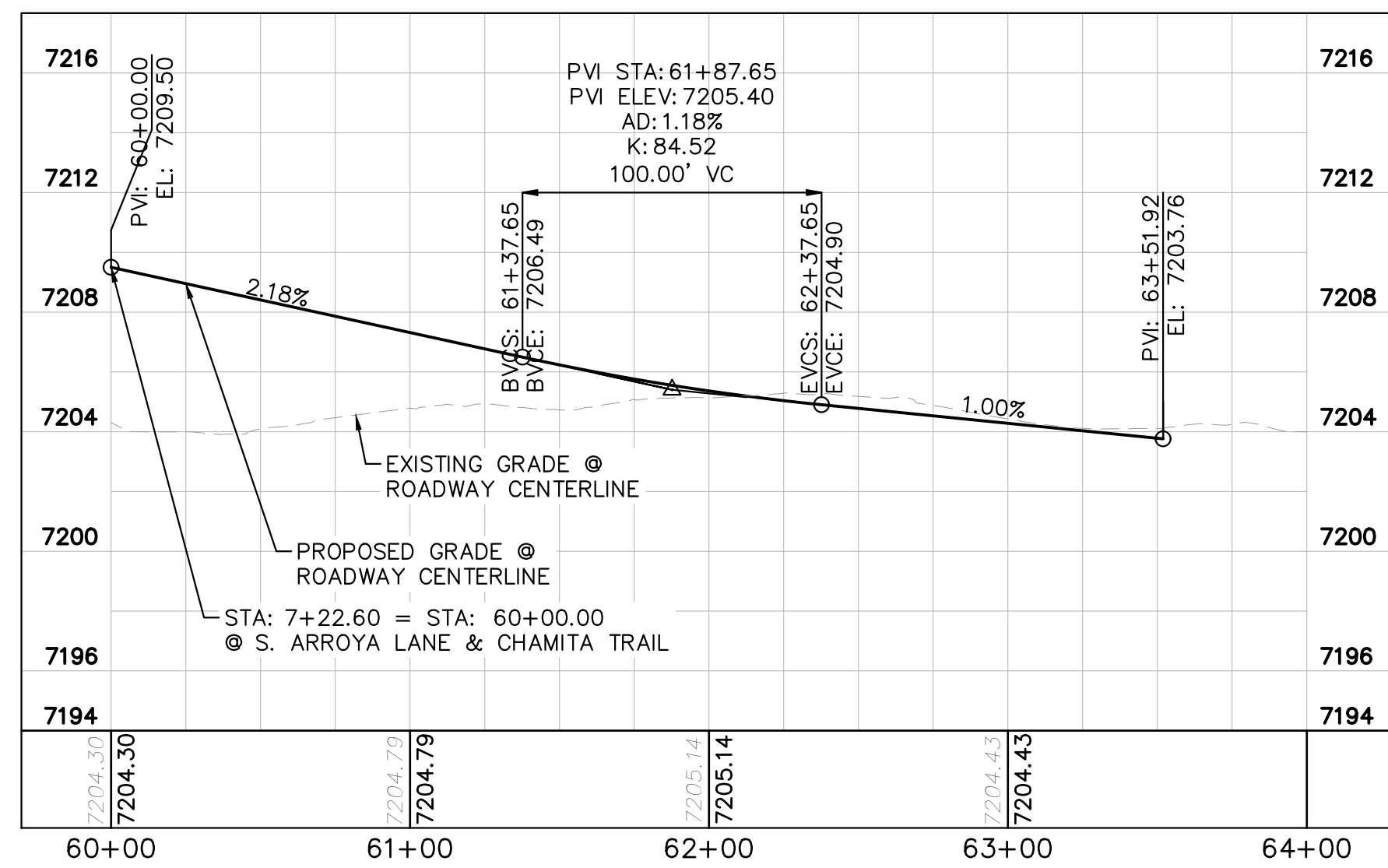
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- PROPERTY/LOT LINE
 - ROW LINE
 - UTILITY EASEMENT LINE
 - LOT # LOT NUMBER
 - x-x-x- PROPOSED DRAINAGE EASEMENT
 - ▲ ▲ CROSS SECTION (SEE SHEET C1.1)
 - PROPOSED CULVERT
 - EXISTING CULVERT
 - 7XXX- EXISTING MAJOR CONTOUR
 - 7XXX- EXISTING MINOR CONTOUR
 - 7XXX PROPOSED MAJOR CONTOUR
 - 7XXX PROPOSED MINOR CONTOUR
 - PROPOSED EDGE OF PAVEMENT
 - PROPOSED EDGE OF SHOULDER
 - TURF REINFORCEMENT MAT
 - ASPHALT PAVEMENT

NOTES

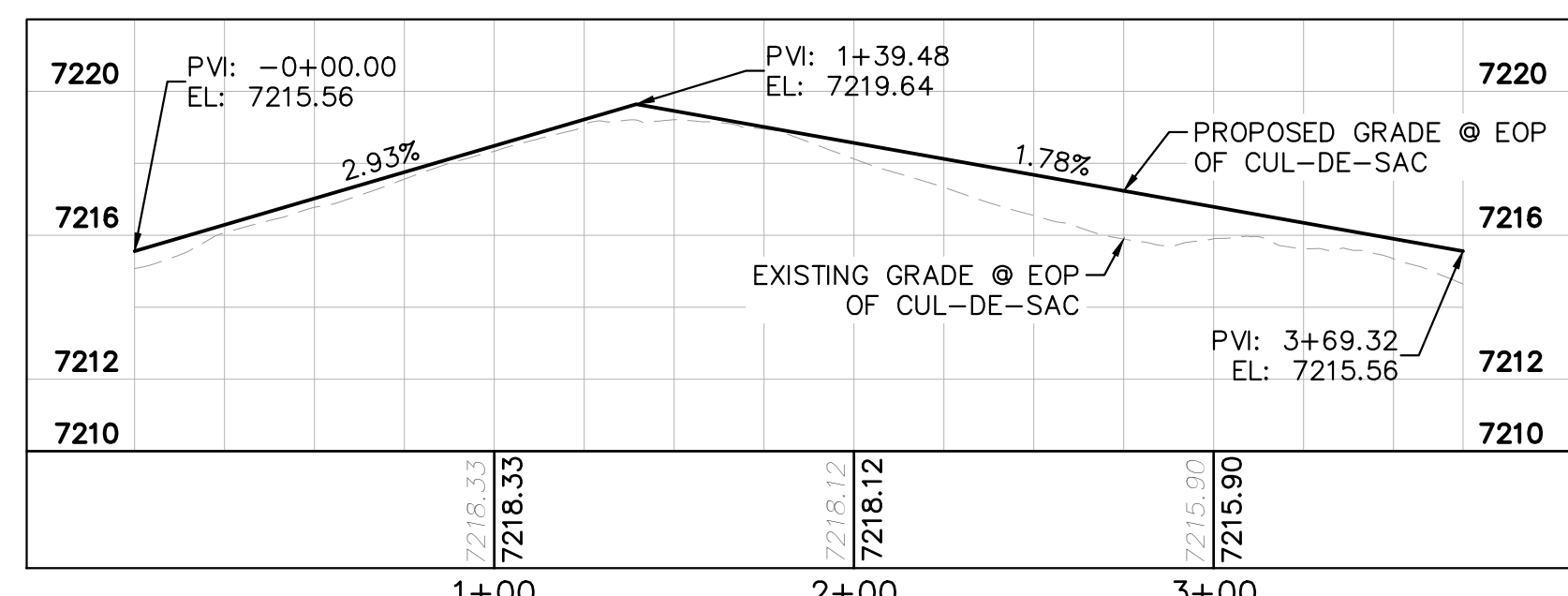
1. SEE SHEET C1.1 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.
2. PIE = PUBLIC IMPROVEMENT EASEMENT
3. PUE = PUBLIC UTILITY EASEMENT



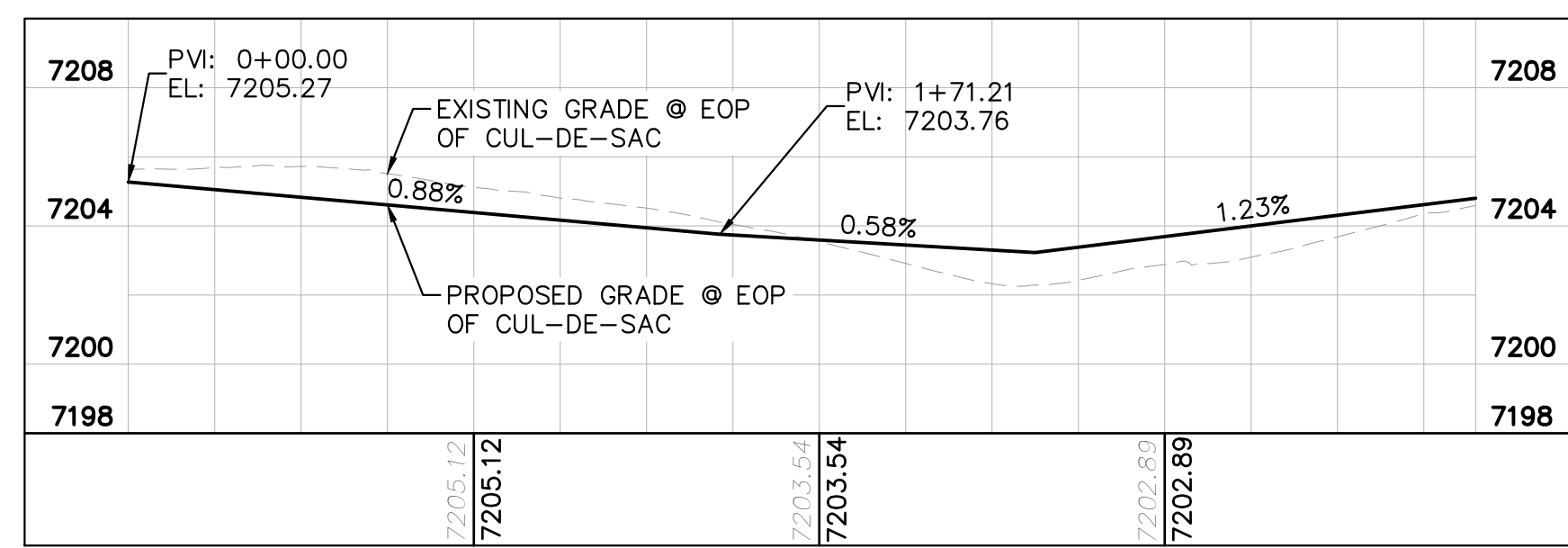
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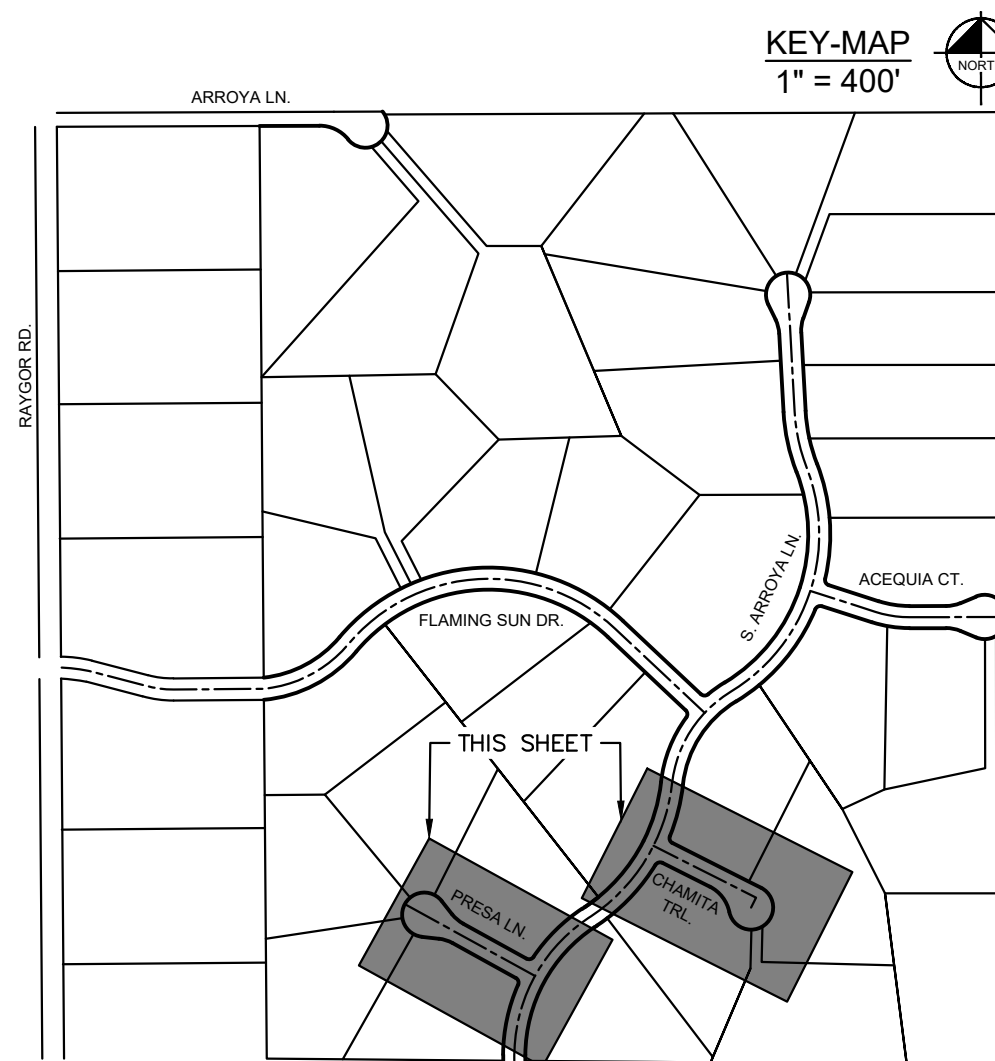
CHAMITA TRAIL PROFILE VIEW



PRESA LANE CUL-DE-SAC EOP



CHAMITA TRAIL PLAN VIEW CUL-DE-SAC EOP



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 2 North Nevada Avenue Suite 900
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DESIGNED BY: MJK
 DRAWN BY: MJK
 CHECKED BY: KKK
 DATE: 9/17/2024

EAGLEVIEW
 EL PASO COUNTY, COLORADO
 CONSTRUCTION DOCUMENTS
PRESA LN. & CHAMITA TRL. PLAN & PROFILE



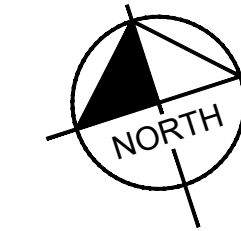
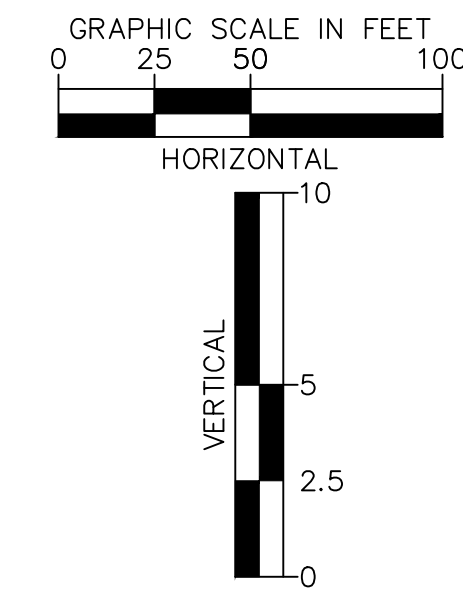
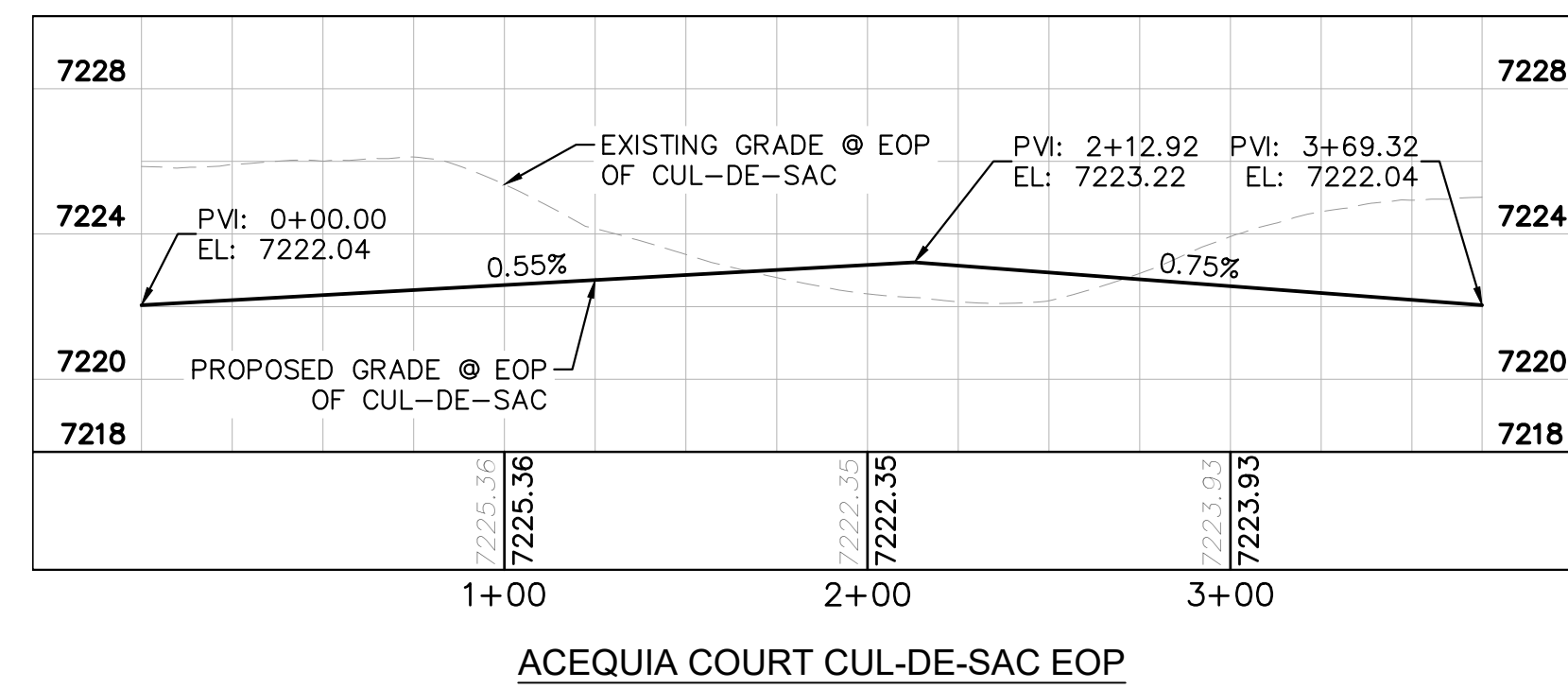
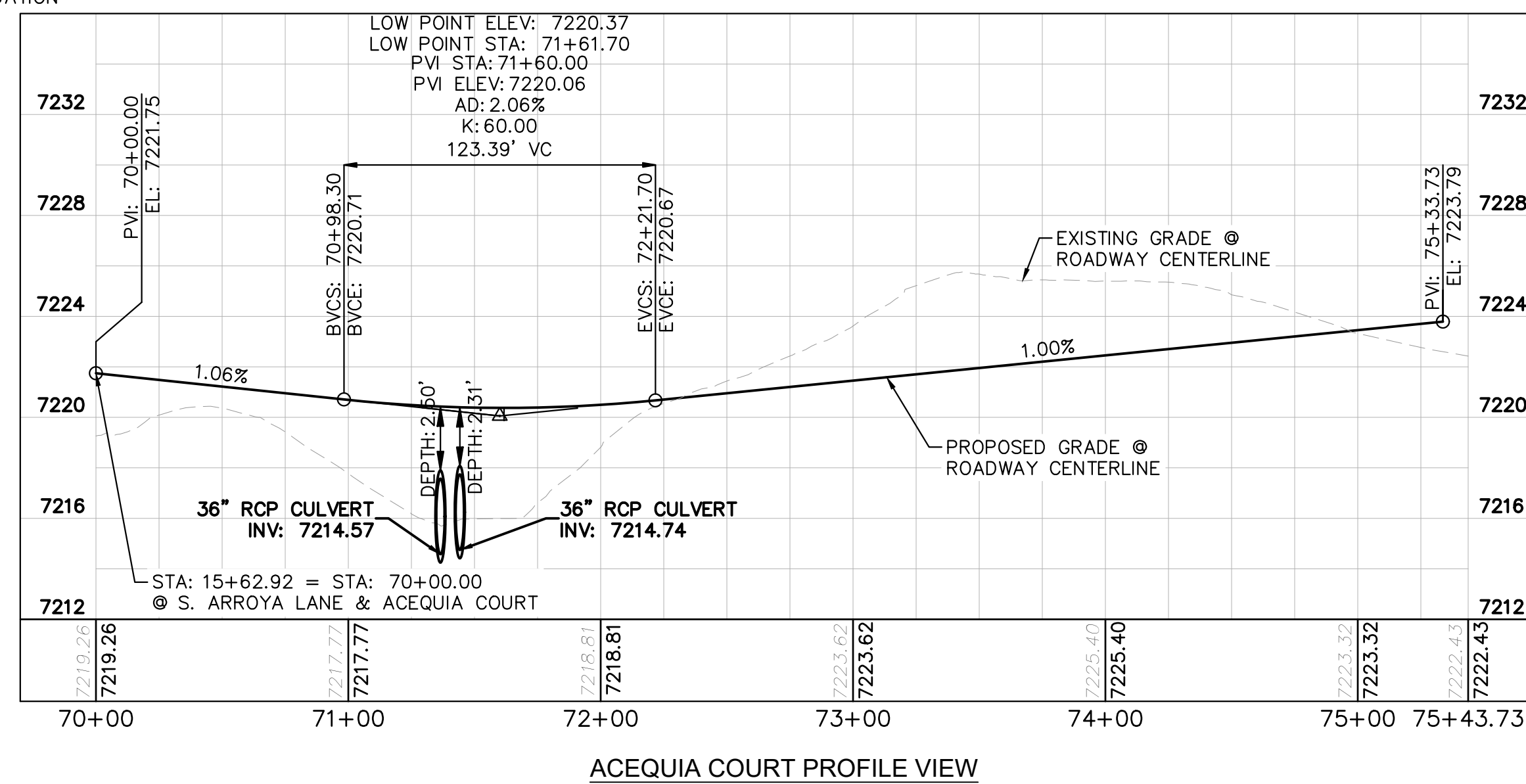
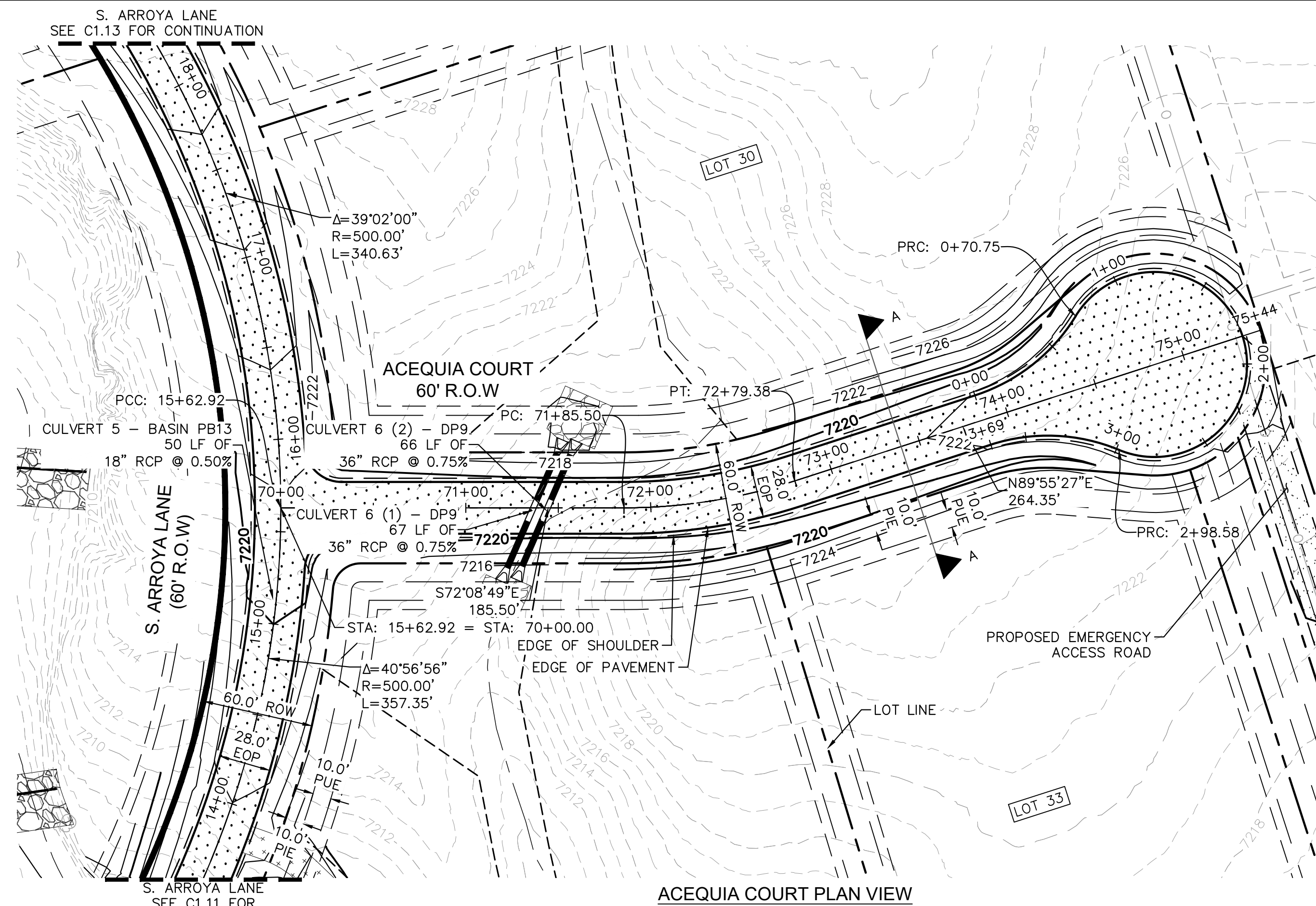
PROJECT NO.
196106001

SHEET

C1.14

PCD FILE #: SF-22-42

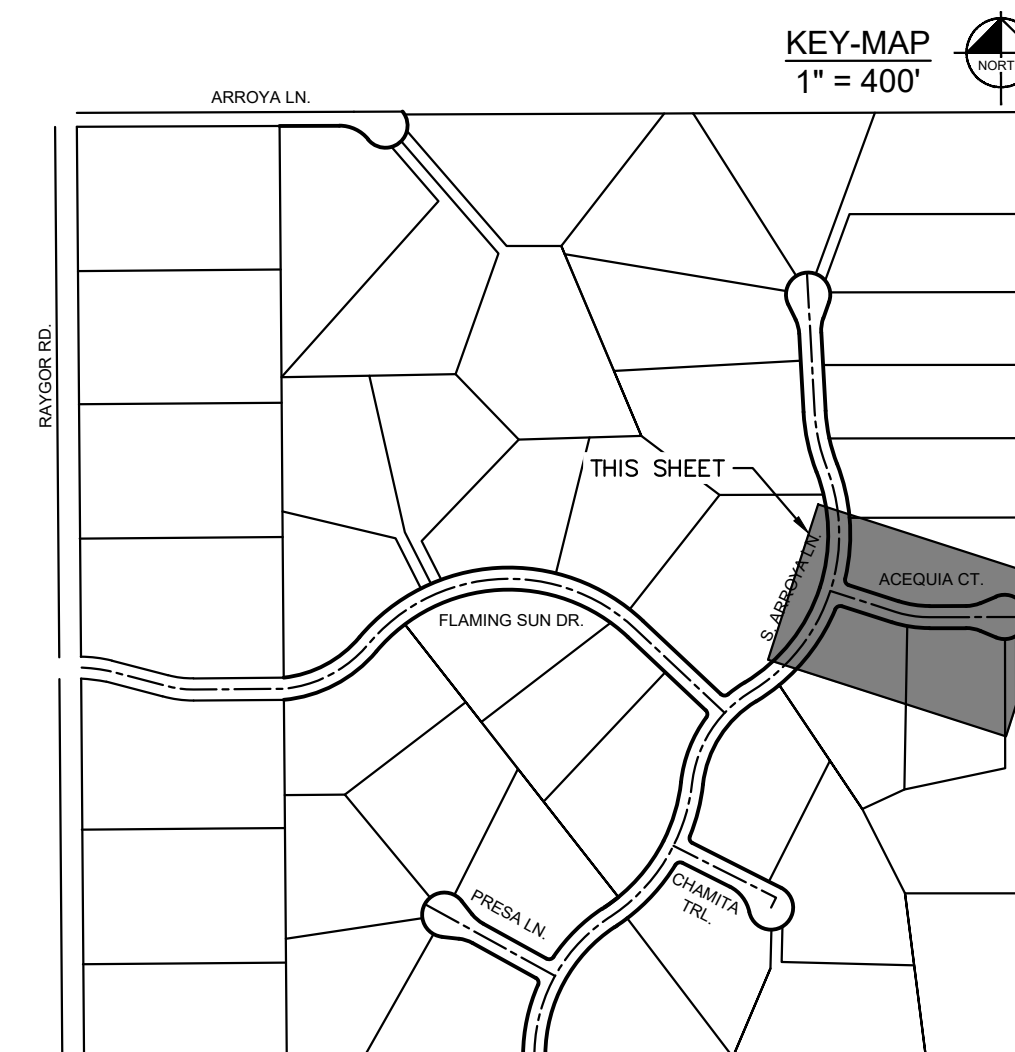
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- LEGEND**
- PROPERTY/LOT LINE
 - ROW LINE
 - UTILITY EASEMENT LINE
 - LOT # LOT NUMBER
 - X-X- PROPOSED DRAINAGE EASEMENT
 - X-X-X- CROSS SECTION (SEE SHEET C1.1)
 - PROPOSED CULVERT
 - EXISTING CULVERT
 - 7XXX- EXISTING MAJOR CONTOUR
 - 7XXX- EXISTING MINOR CONTOUR
 - 7XXX- PROPOSED MAJOR CONTOUR
 - 7XXX- PROPOSED MINOR CONTOUR
 - PROPOSED EDGE OF PAVEMENT
 - PROPOSED EDGE OF SHOULDER
 - X-X-X-X-X-X TURF REINFORCEMENT MAT
 - ASPHALT PAVEMENT

NOTES

- SEE SHEET C1.1 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.
- PIE = PUBLIC IMPROVEMENT EASEMENT
- PUE = PUBLIC UTILITY EASEMENT



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Kimley»Horn
 2024 KIMLEY-HORN AND ASSOCIATES, INC.
 2 North Nevada Avenue Suite 900
 Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK
 DRAWN BY: MJK
 CHECKED BY: KRK
 DATE: 9/17/2024

EAGLEVIEW
 EL PASO COUNTY, COLORADO
 CONSTRUCTION DOCUMENTS
ACEQUIA CT. PLAN & PROFILE



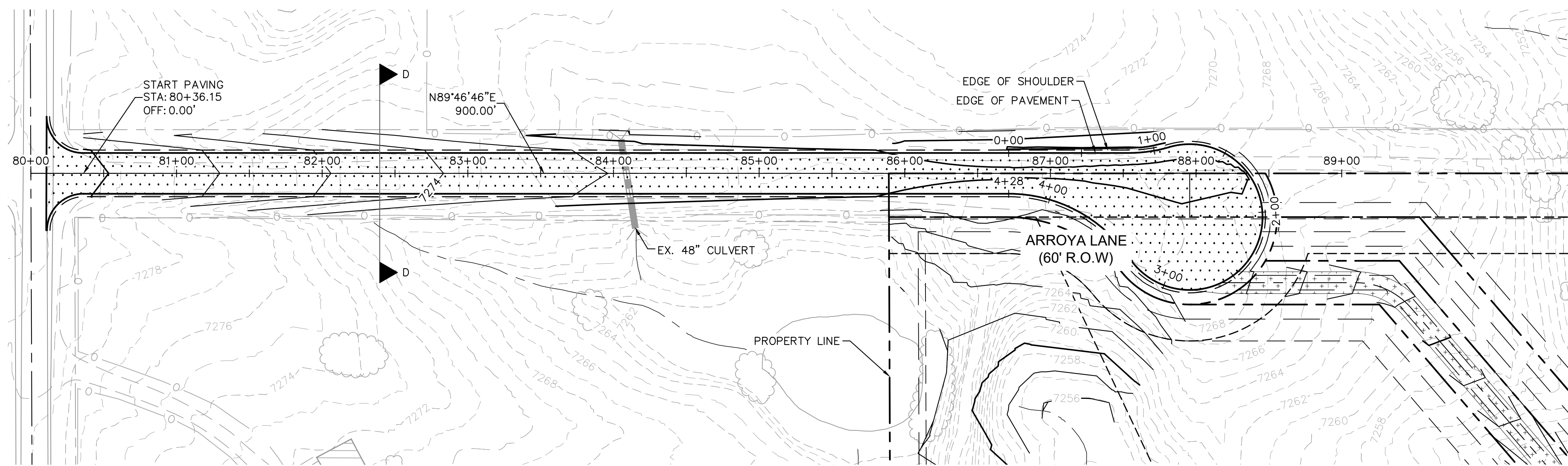
PROJECT NO.
196106001

SHEET

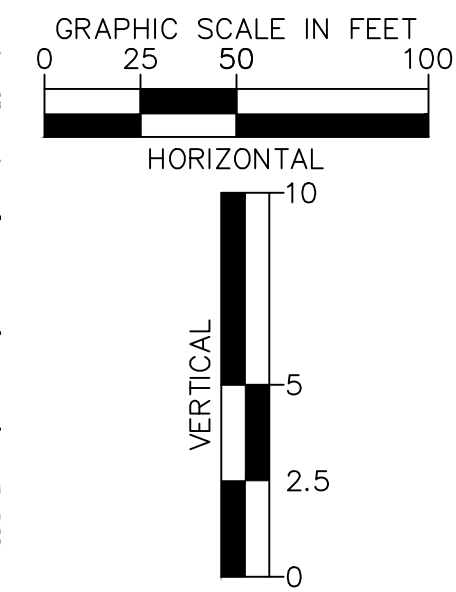
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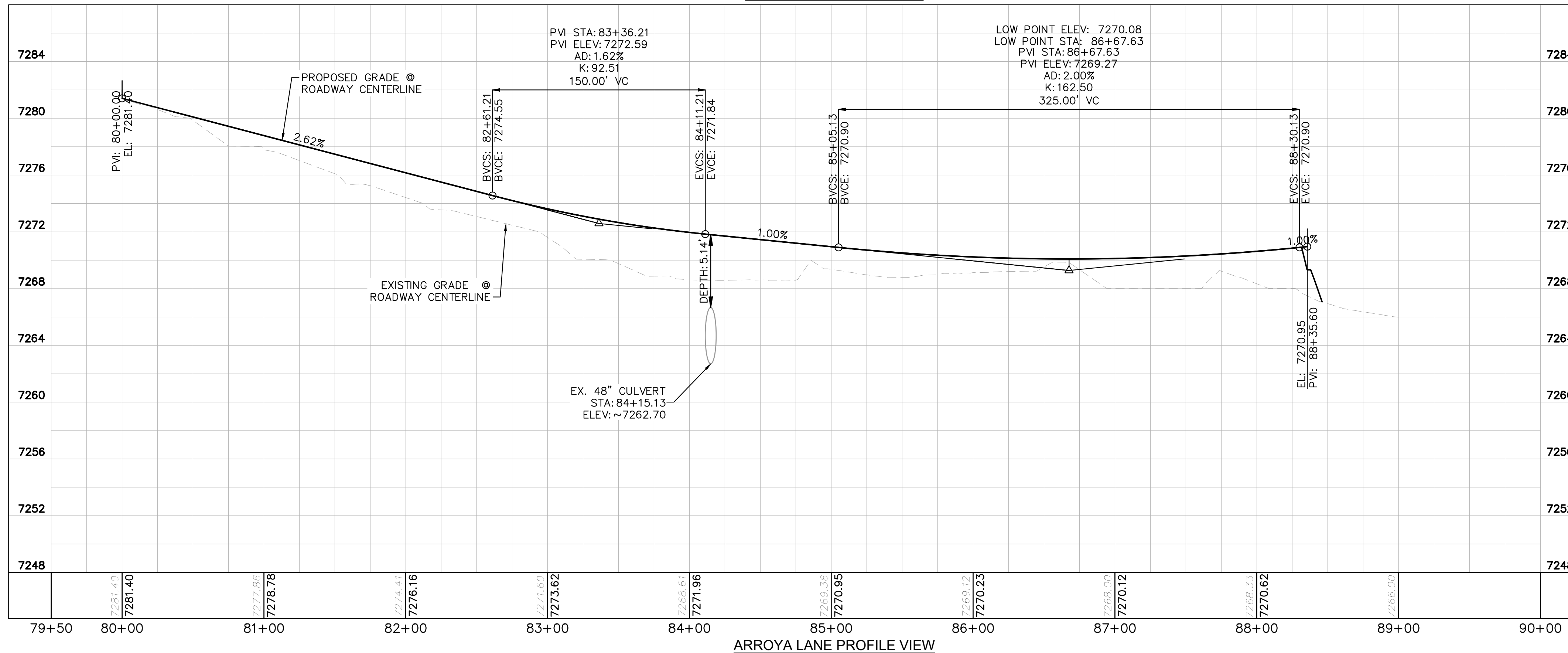
ARROYA LANE PLAN VIEW



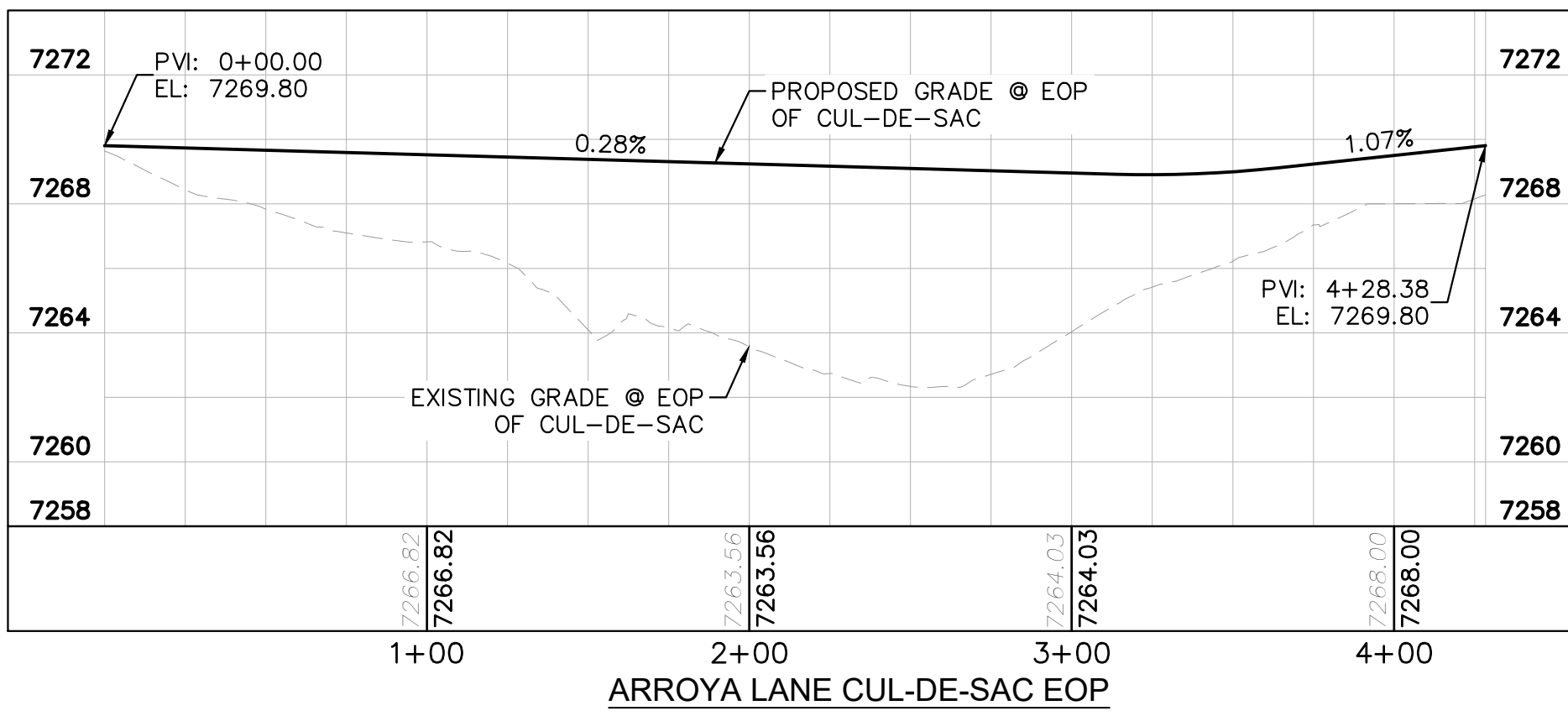
- LEGEND**
- PROPERTY/LOT LINE
 - ROW LINE
 - UTILITY EASEMENT LINE
 - LOT # LOT NUMBER
 - X-X- PROPOSED DRAINAGE EASEMENT
 - X X CROSS SECTION (SEE SHEET C1.1)
 - PROPOSED CULVERT
 - EXISTING CULVERT
 - 7XXX- EXISTING MAJOR CONTOUR
 - 7XXX- EXISTING MINOR CONTOUR
 - 7XXX PROPOSED MAJOR CONTOUR
 - 7XXX PROPOSED MINOR CONTOUR
 - PROPOSED EDGE OF PAVEMENT
 - PROPOSED EDGE OF SHOULDER
 - X X X X TURF REINFORCEMENT MAT
 - ASPHALT PAVEMENT

NOTES

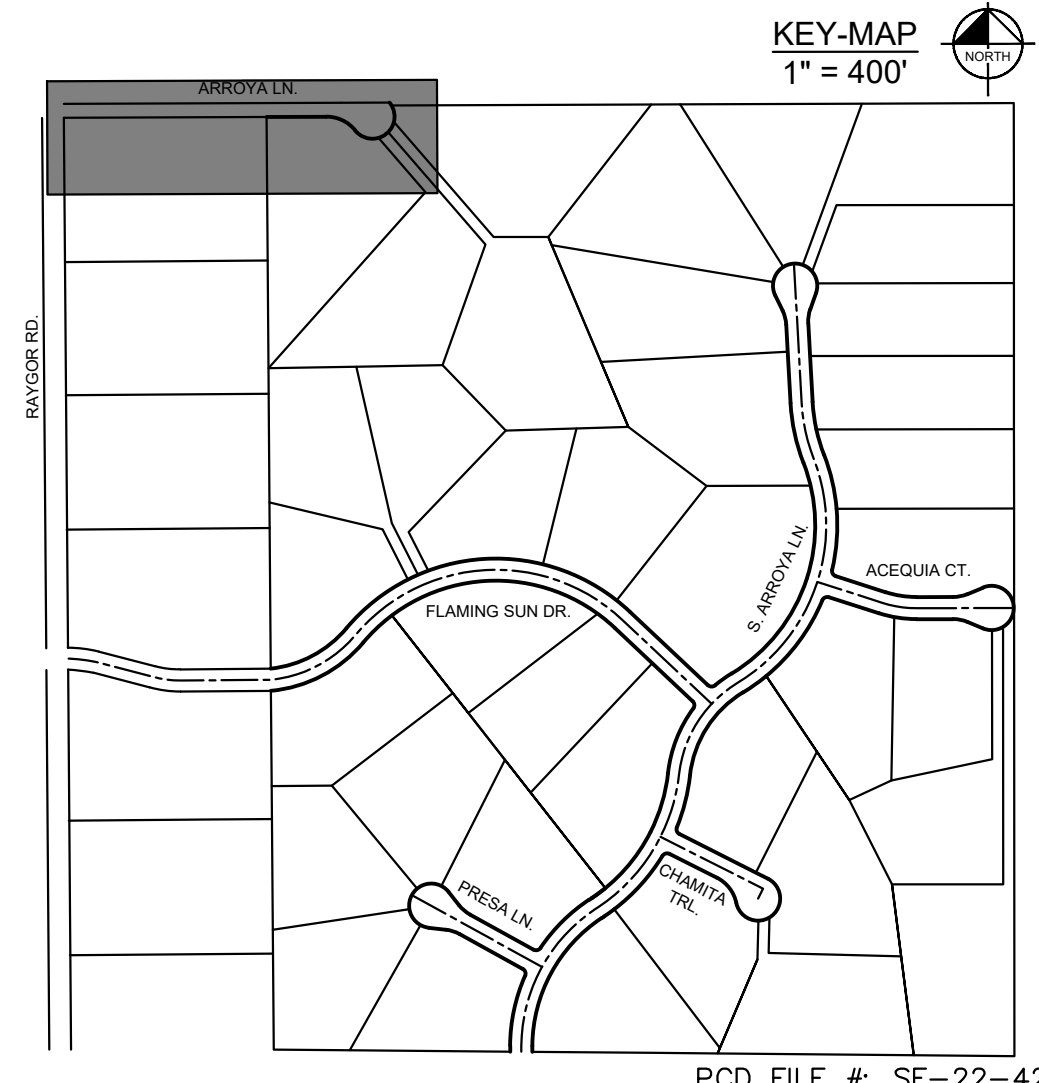
1. SEE SHEET C1.1 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.
2. PIE = PUBLIC IMPROVEMENT EASEMENT
3. PUE = PUBLIC UTILITY EASEMENT



ARROYA LANE PROFILE VIEW



ARROYA LANE CUL-DE-SAC EOP



NO.	REVISION	BY	DATE	APPR.

Kimley»Horn
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 2 North Nevada Avenue Suite 900
 Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK
 DRAWN BY: MJK
 CHECKED BY: KKK
 DATE: 9/17/2024

EAGLEVIEW
 EL PASO COUNTY, COLORADO
 CONSTRUCTION DOCUMENTS
ARROYA LN. PLAN & PROFILE

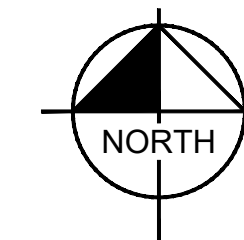
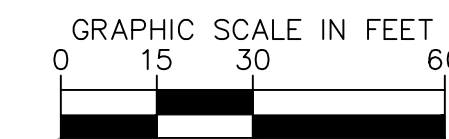
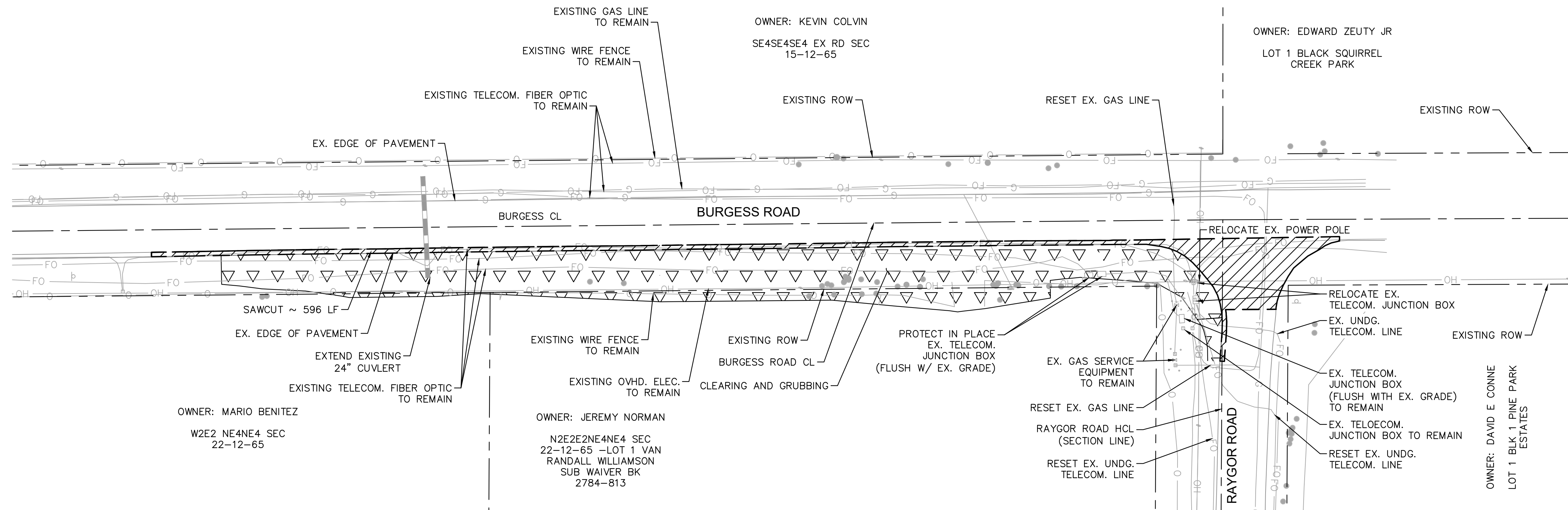


PROJECT NO.
196106001

SHEET

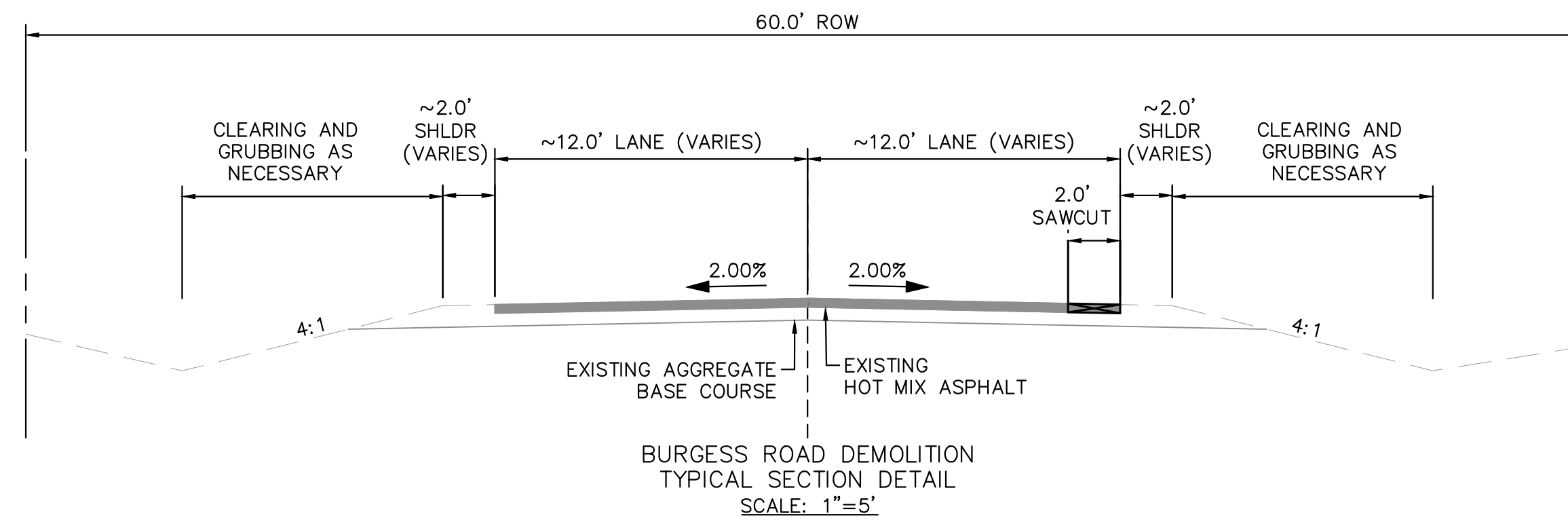
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LEGEND

- PROPERTY/LOT LINE
- ROW LINE
- SAWCUT (2.0' OFF EXISTING EDGE OF PAVEMENT)
- EX. CULVERT
- EX. TELECOM. FIBER OPTIC
- x x EX. GAS LINE
- EX. OVHD ELECTRIC
- o EX. WIRE FENCE
- ▽▽▽▽ CLEARING AND GRUBBING
- ▨ ASPHALT REMOVAL



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Kimley»Horn
 2024 KIMLEY-HORN AND ASSOCIATES, INC.
 2 North Nevada Avenue Suite 900
 Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK
 DRAWN BY: MJK
 CHECKED BY: KKK
 DATE: 9/17/2024

EAGLEVIEW
 EL PASO COUNTY, COLORADO
 CONSTRUCTION DOCUMENTS
BURGESS REMOVE & RESET PLAN



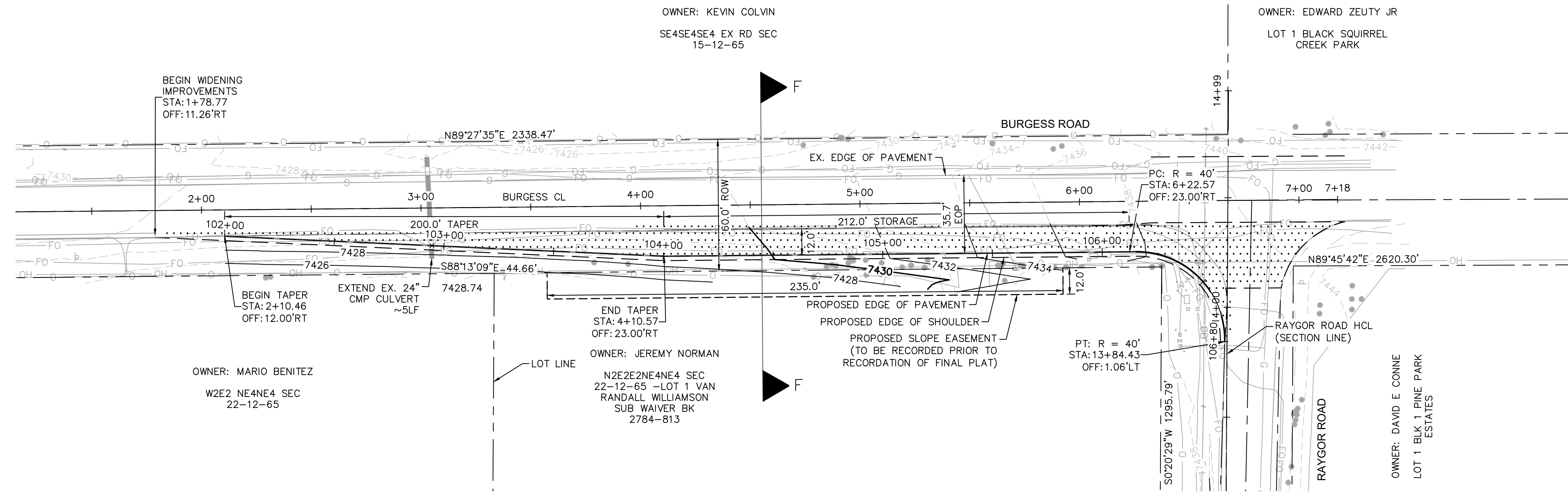
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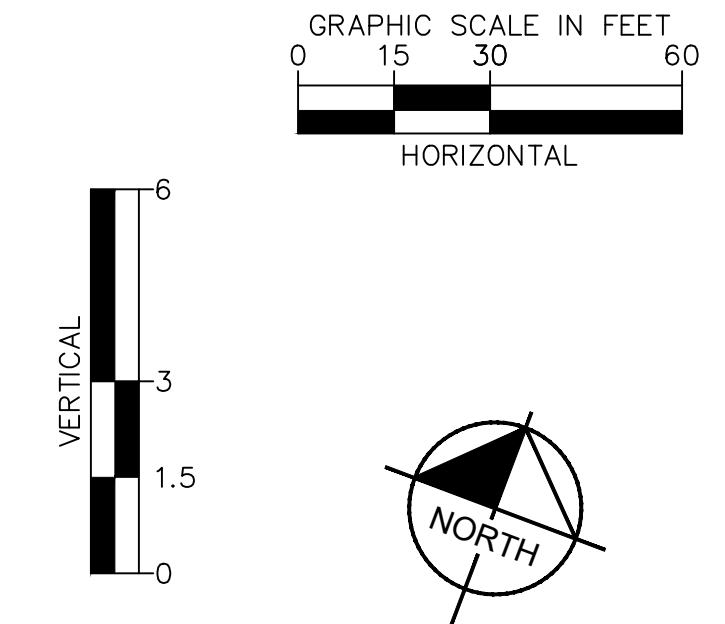
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BURGESS ROAD - RT EOP PLAN VIEW
STA: 2+00 - 6+50

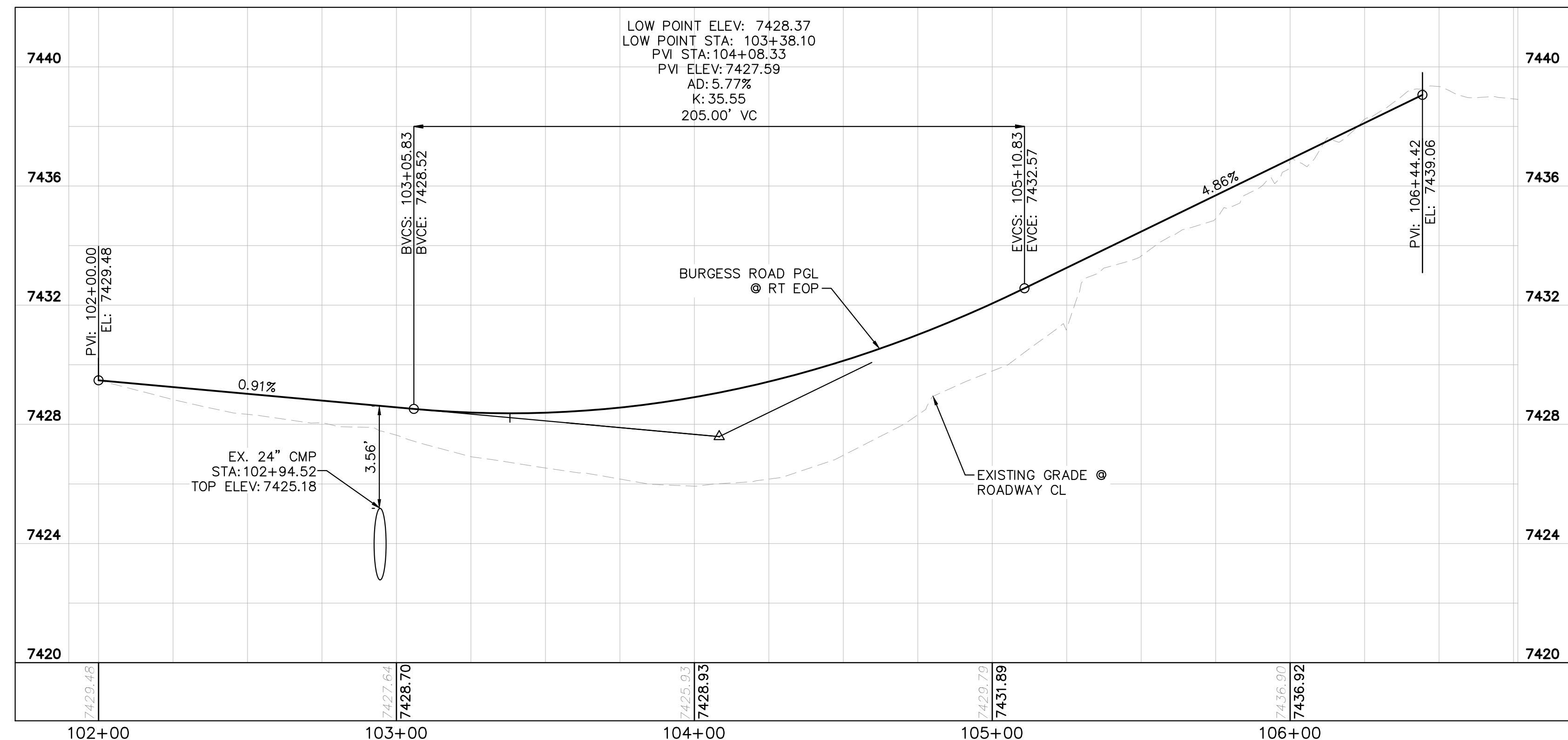


LEGEND

---	PROPERTY/LOT LINE
---	ROW LINE
---	UTILITY EASEMENT LINE
LOT #	LOT NUMBER
---	PROPOSED DRAINAGE EASEMENT
x x	CROSS SECTION (SEE SHEET C1.1)
---	PROPOSED CULVERT
---	EXISTING CULVERT
---	EXISTING MAJOR CONTOUR
---	EXISTING MINOR CONTOUR
---	PROPOSED MAJOR CONTOUR
---	PROPOSED MINOR CONTOUR
---	SAWCUT
---	PROPOSED EDGE OF PAVEMENT
---	PROPOSED EDGE OF SHOULDER
---	PROPOSED ASPHALT PAVEMENT

NOTES

- SEE SHEET C1.1 & C1.2 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.
- PIE = PUBLIC IMPROVEMENT EASEMENT
- PUE = PUBLIC UTILITY EASEMENT
- ASPHALT PAVEMENT SECTION TO BE DETERMINED PER GEOTECHNICAL RECOMMENDATIONS



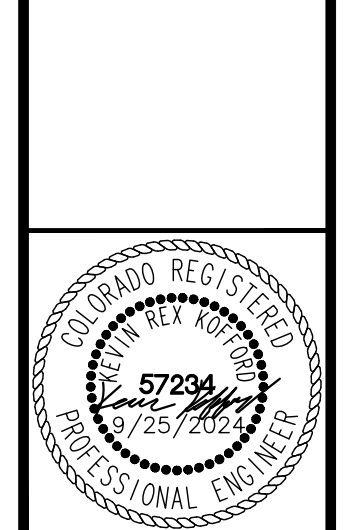
BURGESS ROAD - RT EOP PROFILE
STA: 2+00 - 6+50

NO.	REVISION	BY	DATE	APPR.

Kimley»Horn
2024 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 900
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK
DRAWN BY: MJK
CHECKED BY: KKK
DATE: 9/17/2024

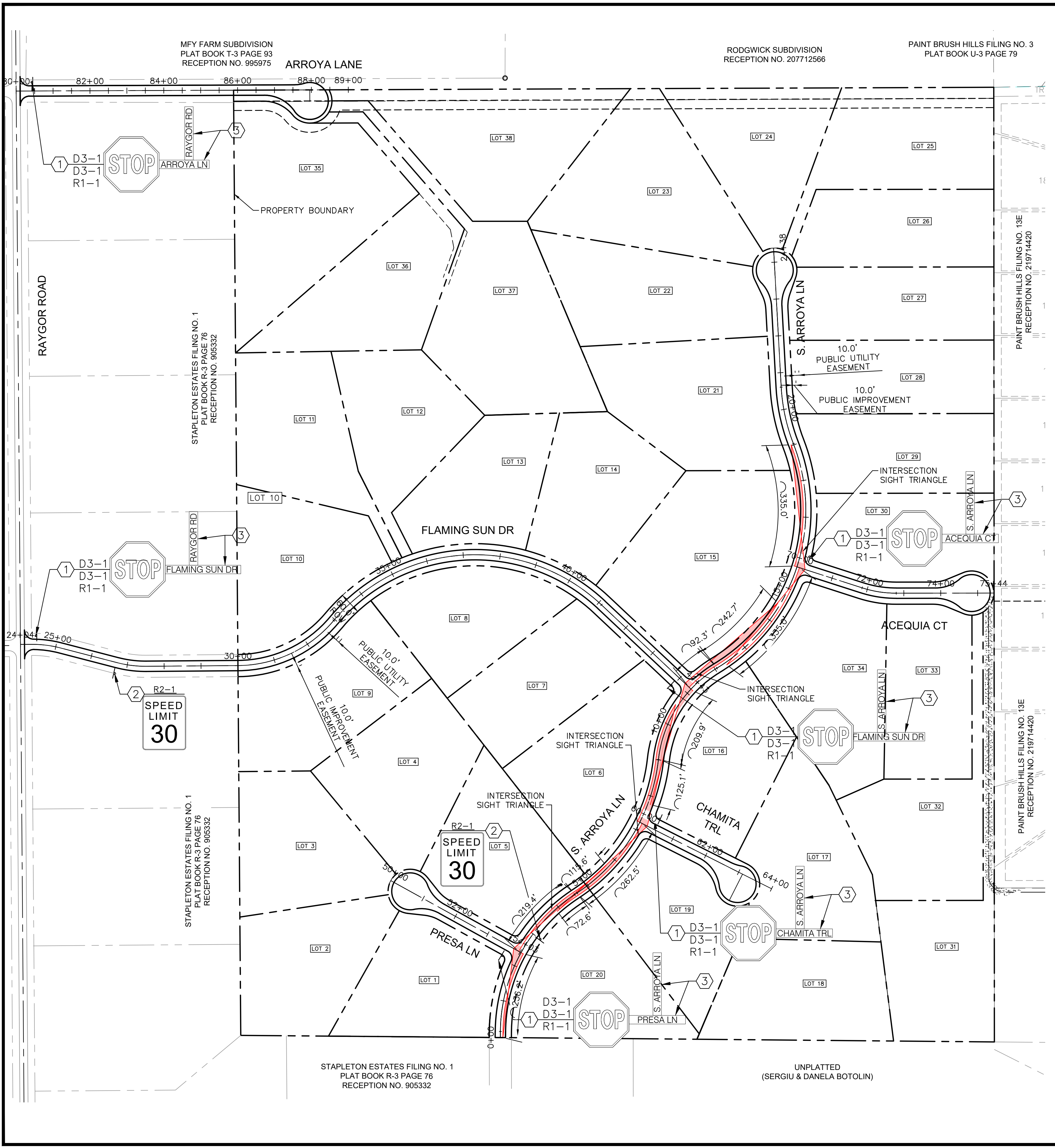
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EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
BURGESS PLAN & PROFILE



PROJECT NO.
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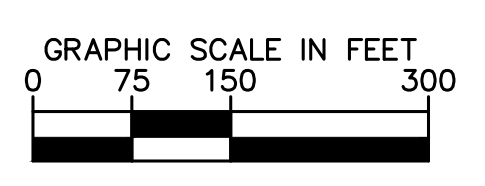
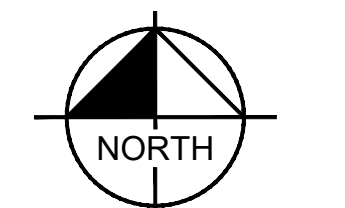
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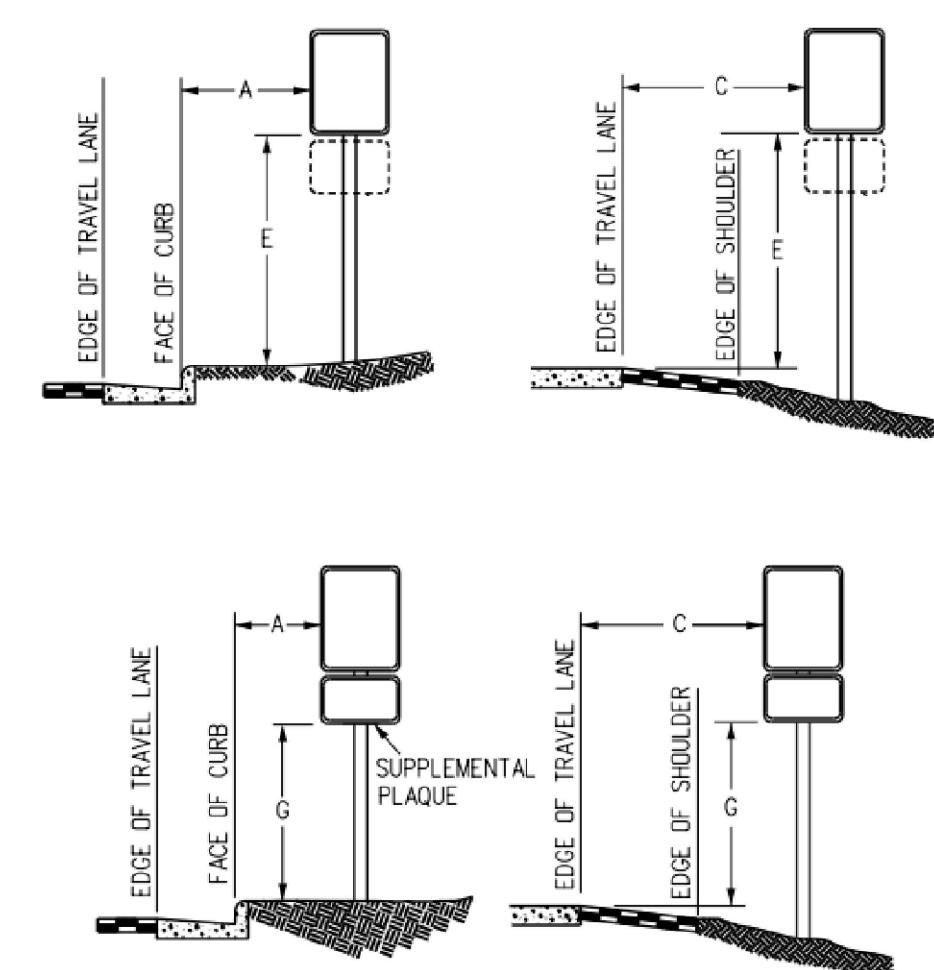
SIGNING AND STRIPING NOTES

1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.
3. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT.
4. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.
5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
6. ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
7. ALL STREET NAME SIGNS SHALL HAVE "D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 40 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS"
8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
9. ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.
10. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
11. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALKS LINES SHALL BE 12" WIDE AND 8' LONG PER CDOT S-627-1.
12. ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.
13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
14. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.



LEGEND

- — — — — PROPERTY LINE
- - - - - PROPOSED EASEMENT
- — — — — SIGHT TRIANGLE
- — — — — PROPOSED ROADWAY SIGN
- ① PROPOSED R1-1 SIGN (30" X 30")
- ② PROPOSED R2-1 SIGN (24" X 30")
- ③ PROPOSED D3-1 SIGN (8" X VARIES)



REGULATORY, RECREATIONAL AND CULTURAL INFORMATION SIGN PLACEMENT

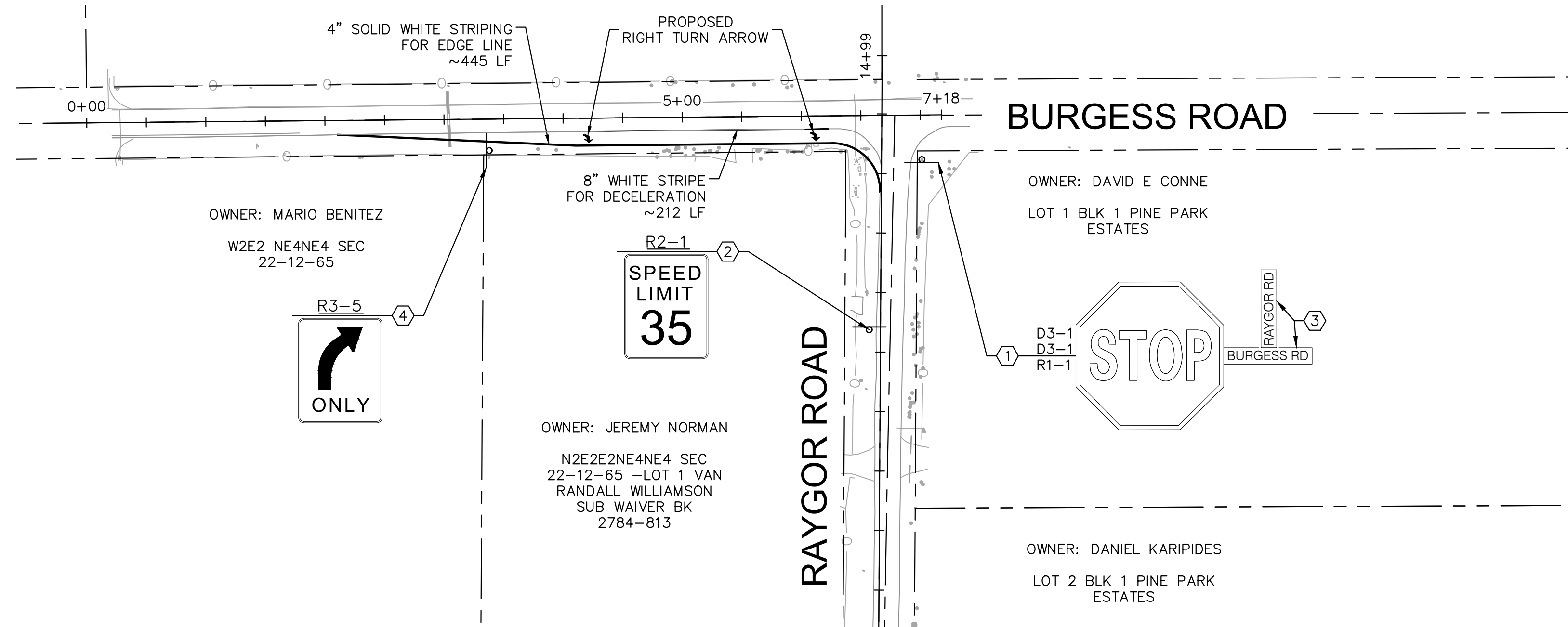
PLACEMENT TABLES

LATERAL PLACEMENT		
KEY	ALL CLASSES OF STREETS AND HIGHWAYS	
	MINIMUM	NORMAL
A	2'-0"	15'-0" PLUS CURB
B	2'-0"	30'-0" OR MORE INCLUDES CURB
C	2'-0"	6'-0" PLUS EDGE OF 6'+ WIDE SHOULDER. IF NONE, 15'-0" FROM EDGE OF TRAVEL LANE.

VERTICAL PLACEMENT					
KEY	FREEWAYS AND EXPRESSWAYS		CONVENTIONAL STREETS AND HIGHWAYS		
	MIN.	MAX.	URBAN	RURAL	
D	7'-0" OR NOTE NO. 9	12'-0"	7'-0"	8'-0"	5'-0" 8'-0"
E	7'-0"	8'-0"	7'-0"	8'-0"	5'-0" 8'-0"
F	8'-0" OR NOTE NO. 9	12'-0"	8'-0"	9'-0"	5'-0" 9'-0"
G	6'-0"	7'-0"	5'-0"	7'-0"	4'-0" 7'-0"
H	5'-0"	10'-0"	5'-0"	7'-0"	4'-0" 7'-0"

<p>DESIGNED BY: MK DRAWN BY: RS CHECKED BY: KK DATE: 08/05/2024</p>	<p>EL PASO COUNTY, COLORADO PRE DEVELOPMENT GESC PLAN ON-SITE STRIPING & SIGNAGE PLAN</p>
<p>PROJECT NO. 196288000</p>	<p>SHEET C1.19</p>

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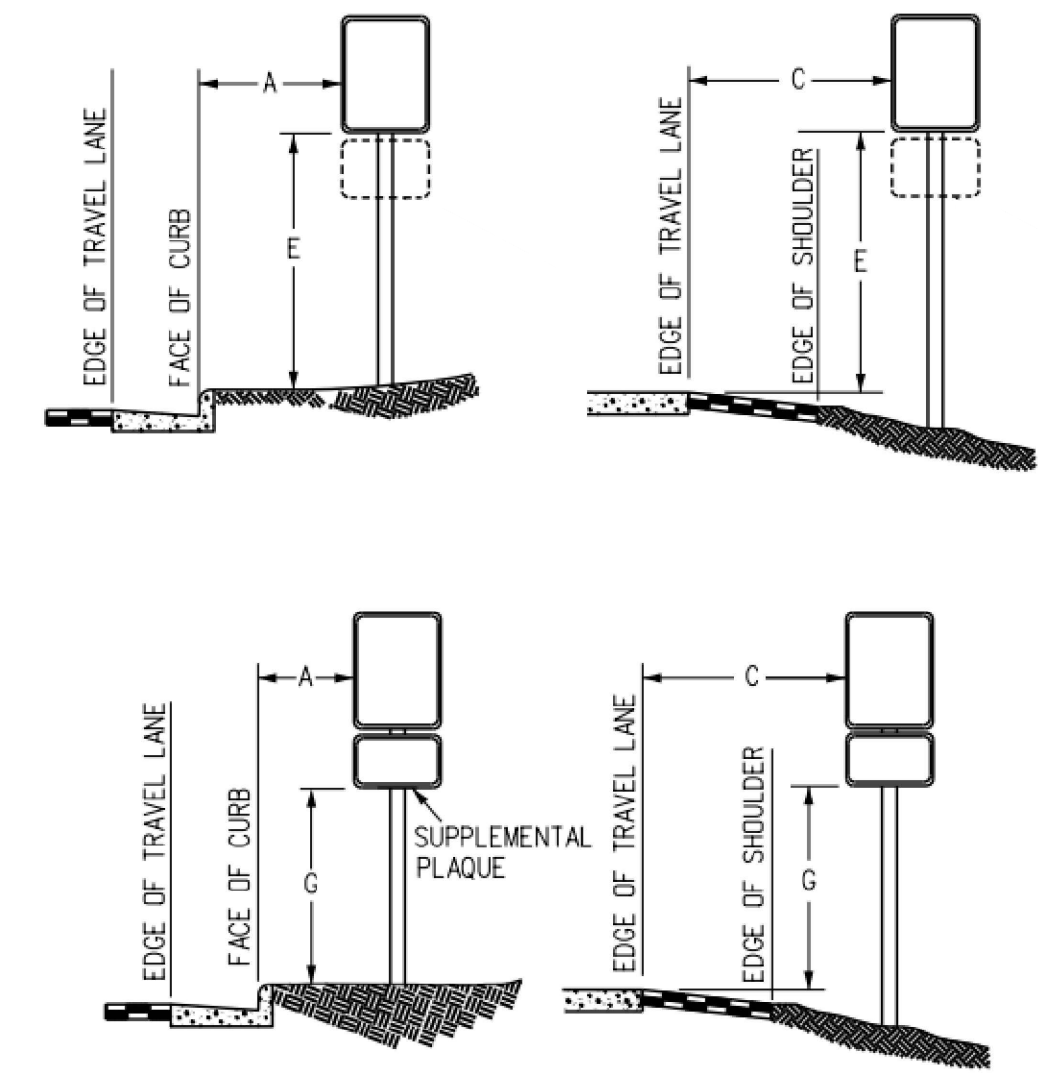


LEGEND

- — — — — PROPERTY LINE
- - - - - PROPOSED EASEMENT
- — — — — PROPOSED ROADWAY SIGN
- ① PROPOSED R1-1 SIGN (30" X 30")
- ② PROPOSED R2-1 SIGN (24" X 30")
- ③ PROPOSED D3-1 SIGN (8" X VARIES)
- ④ PROPOSED R3-5 SIGN (24" X 30")

SIGNING AND STRIPING NOTES

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4. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.
5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
6. ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
7. ALL STREET NAME SIGNS SHALL HAVE "D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 40 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS"
8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
9. ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.
10. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
11. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALKS LINES SHALL BE 12" WIDE AND 8' LONG PER CDOT S-627-1.
12. ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.
13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
14. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.



REGULATORY, RECREATIONAL AND CULTURAL INFORMATION SIGN PLACEMENT

PLACEMENT TABLES

LATERAL PLACEMENT			VERTICAL PLACEMENT						
KEY	ALL CLASSES OF STREETS AND HIGHWAYS		FREEWAYS AND EXPRESSWAYS		CONVENTIONAL STREETS AND HIGHWAYS				
	MINIMUM	NORMAL	MIN.	MAX.	URBAN		RURAL		
A	2'-0"	15'-0" PLUS CURB			MIN.	MAX.	MIN.	MAX.	
B	2'-0"	30'-0" OR MORE INCLUDES CURB	D	7'-0" OR NOTE NO. 9	12'-0"	7'-0"	8'-0"	5'-0"	8'-0"
C	2'-0"	6'-0" PLUS EDGE OF 6'+ WIDE SHOULDER. IF NONE, 15'-0" FROM EDGE OF TRAVEL LANE.	E	7'-0"	8'-0"	7'-0"	8'-0"	5'-0"	8'-0"
			F	8'-0" OR NOTE NO. 9	12'-0"	3'-0"	9'-0"	5'-0"	9'-0"
			G	6'-0"	7'-0"	3'-0"	7'-0"	4'-0"	7'-0"
			H	5'-0"	10'-0"	3'-0"	7'-0"	4'-0"	7'-0"

NO. _____ BY _____ DATE _____

REVISION _____

Kimley»Horn
2024 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 900
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MK
DRAWN BY: RS
CHECKED BY: KK
DATE: 08/05/2024

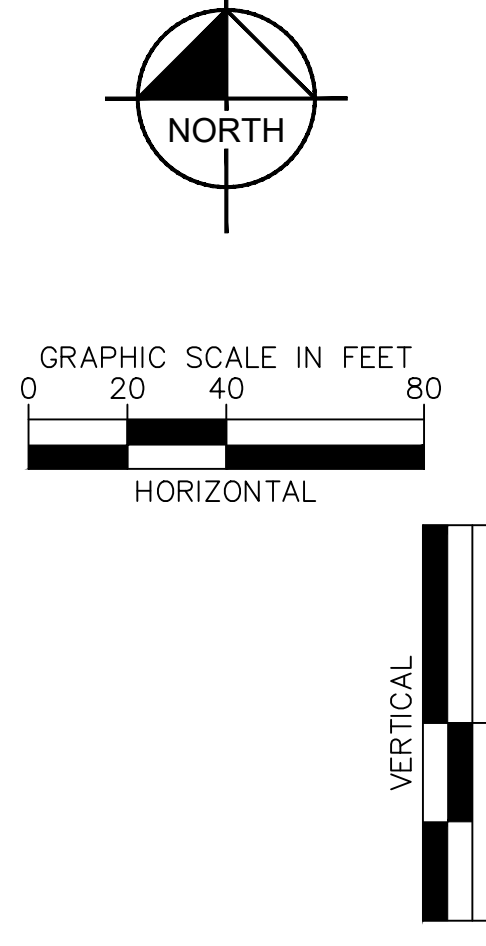
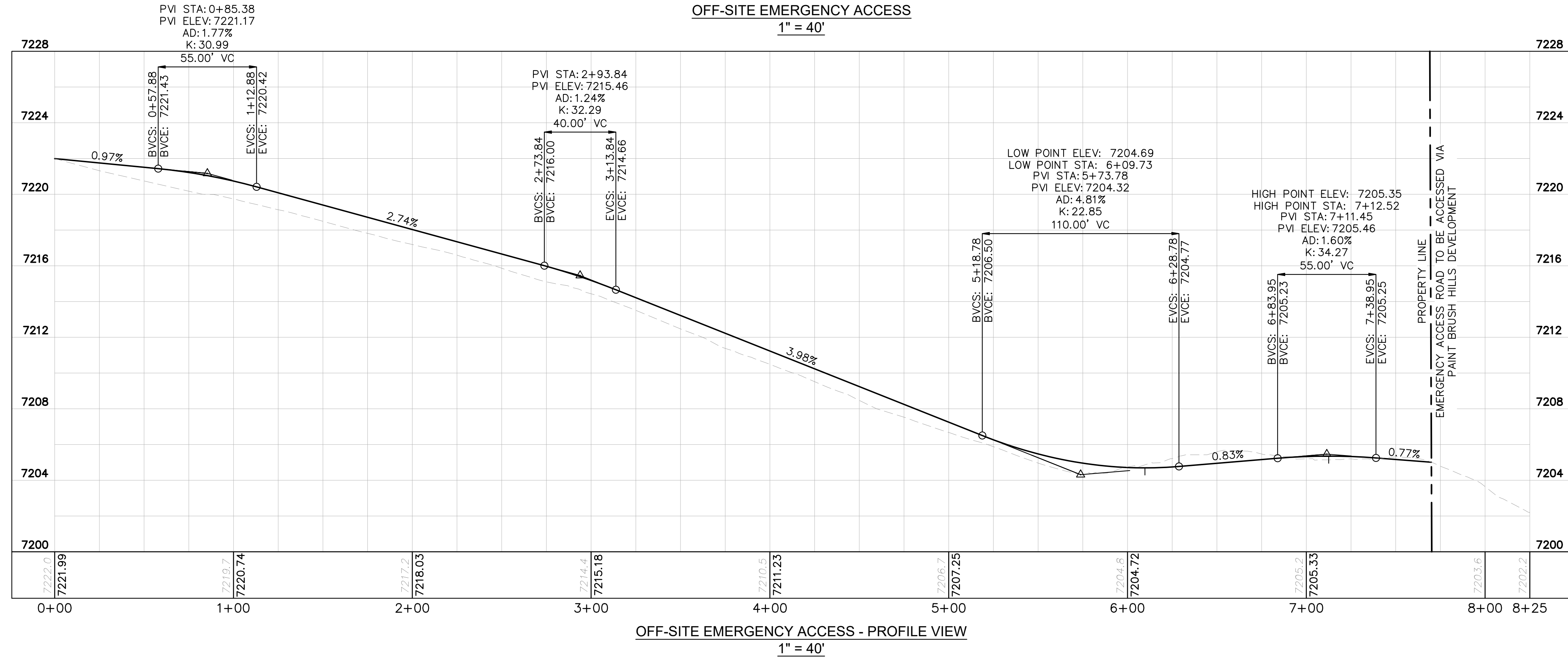
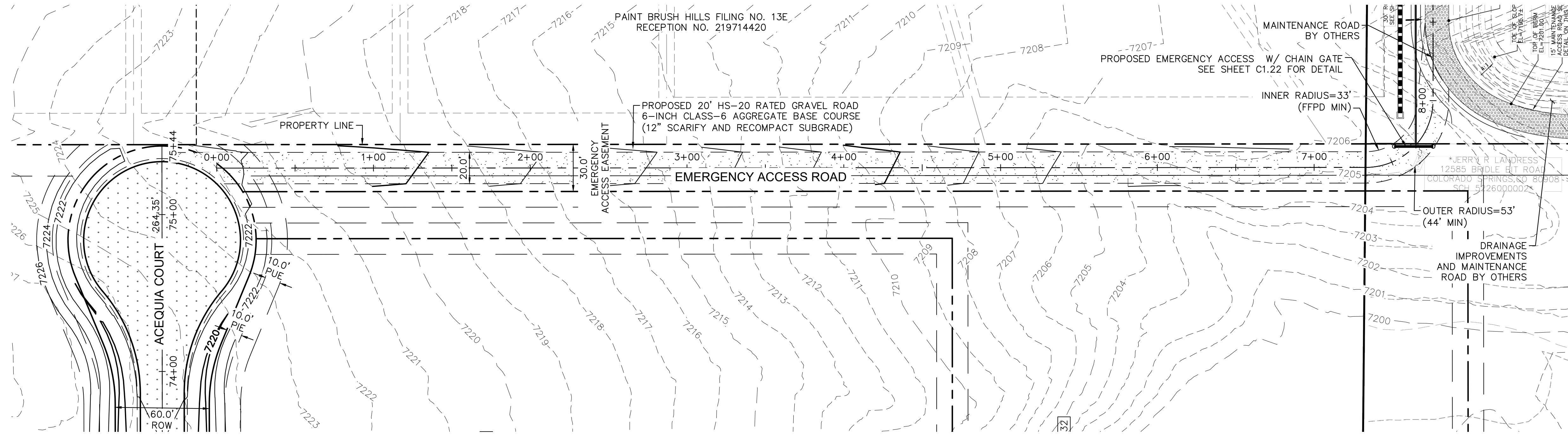
EAGLEVIEW
EL PASO COUNTY, COLORADO
PRE DEVELOPMENT GESC PLAN
OFF-SITE STRIPING & SIGNAGE PLAN

PRELIMINARY
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Kimley-Horn and Associates, Inc.

PROJECT NO.
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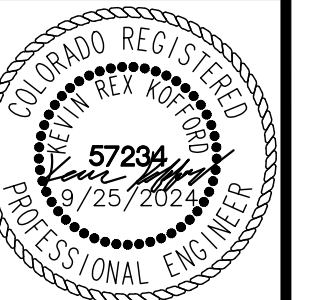


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 2 North Nevada Avenue Suite 900
 Colorado Springs, Colorado 80903 (719) 453-0180

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 DRAWN BY: MJK
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 DATE: 9/17/2024

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 EL PASO COUNTY, COLORADO
 CONSTRUCTION DOCUMENTS
EMERGENCY ACCESS ROAD PLAN & PROFILE

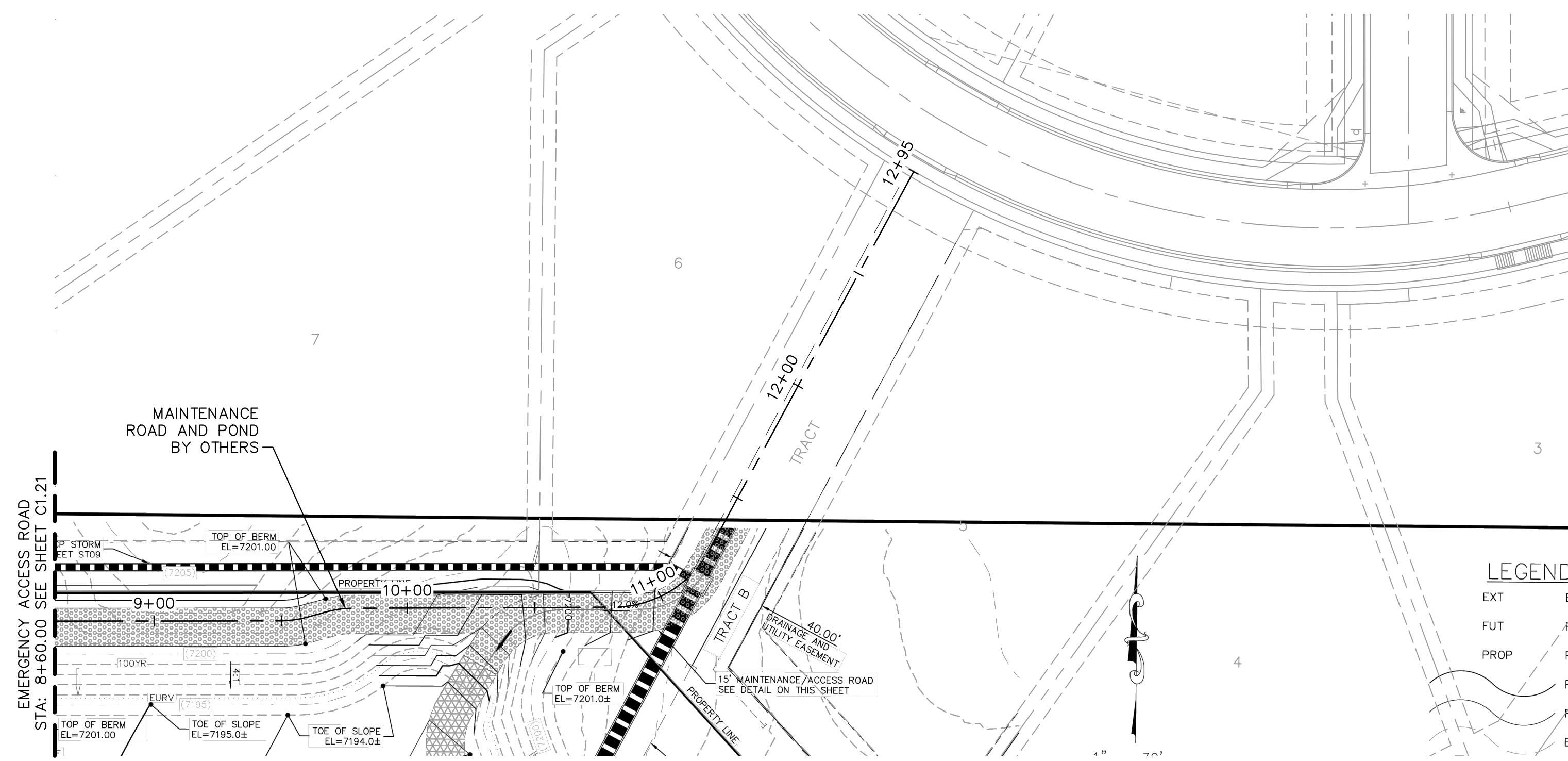


PROJECT NO.
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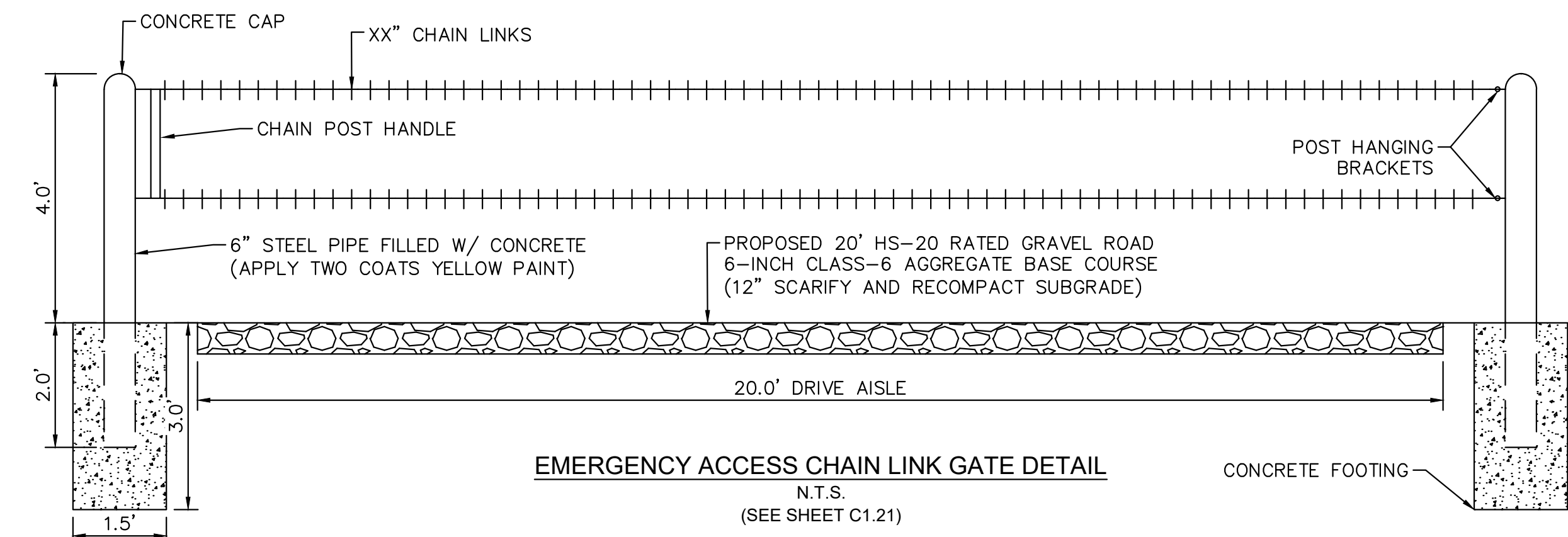
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1" = 40'

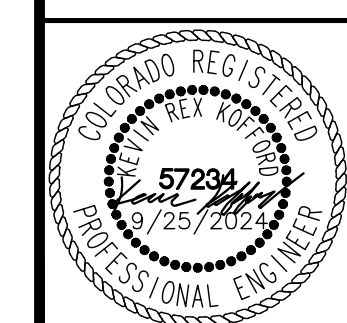


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EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
OFFSITE EMERGENCY ACCESS ROAD



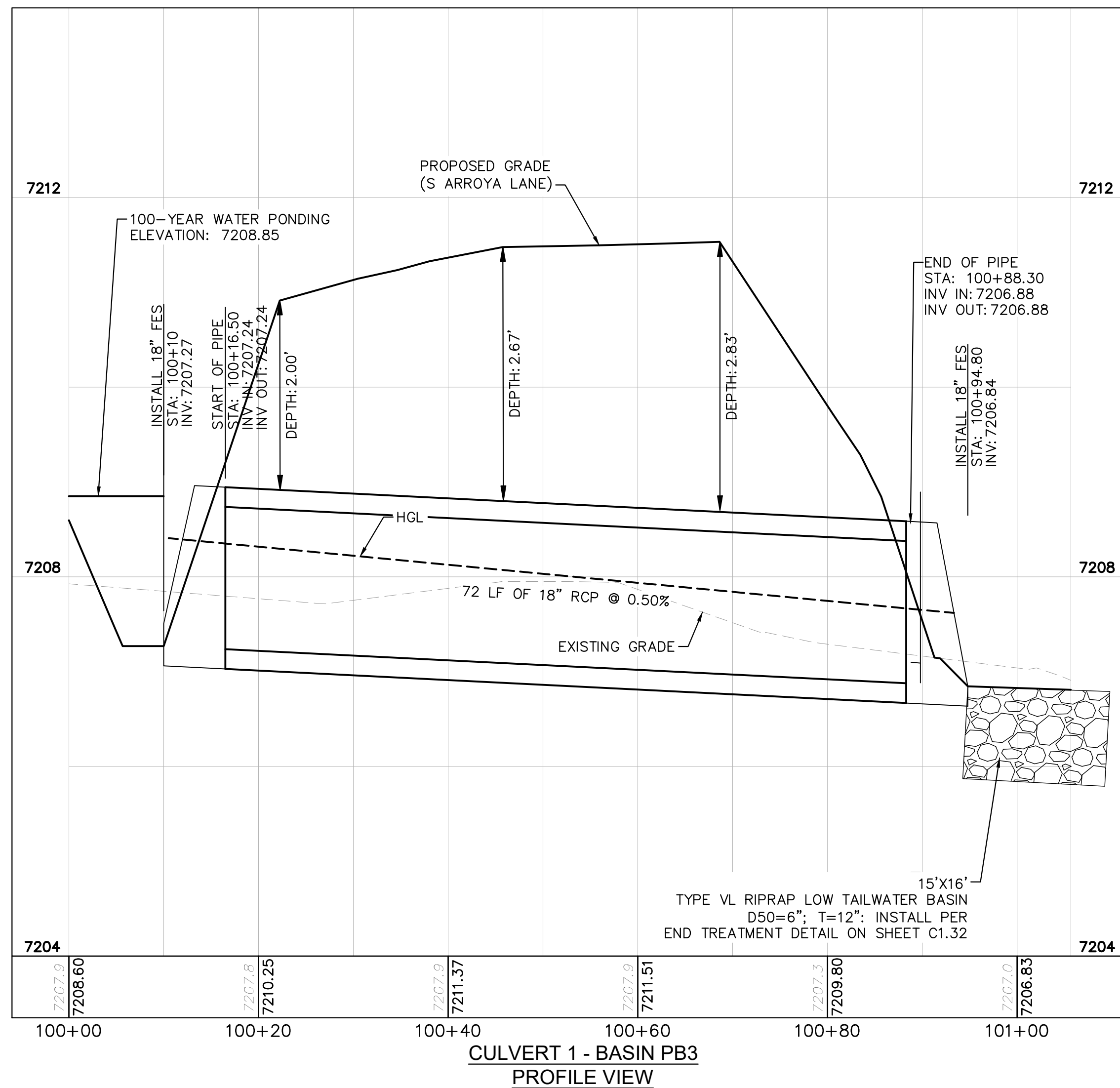
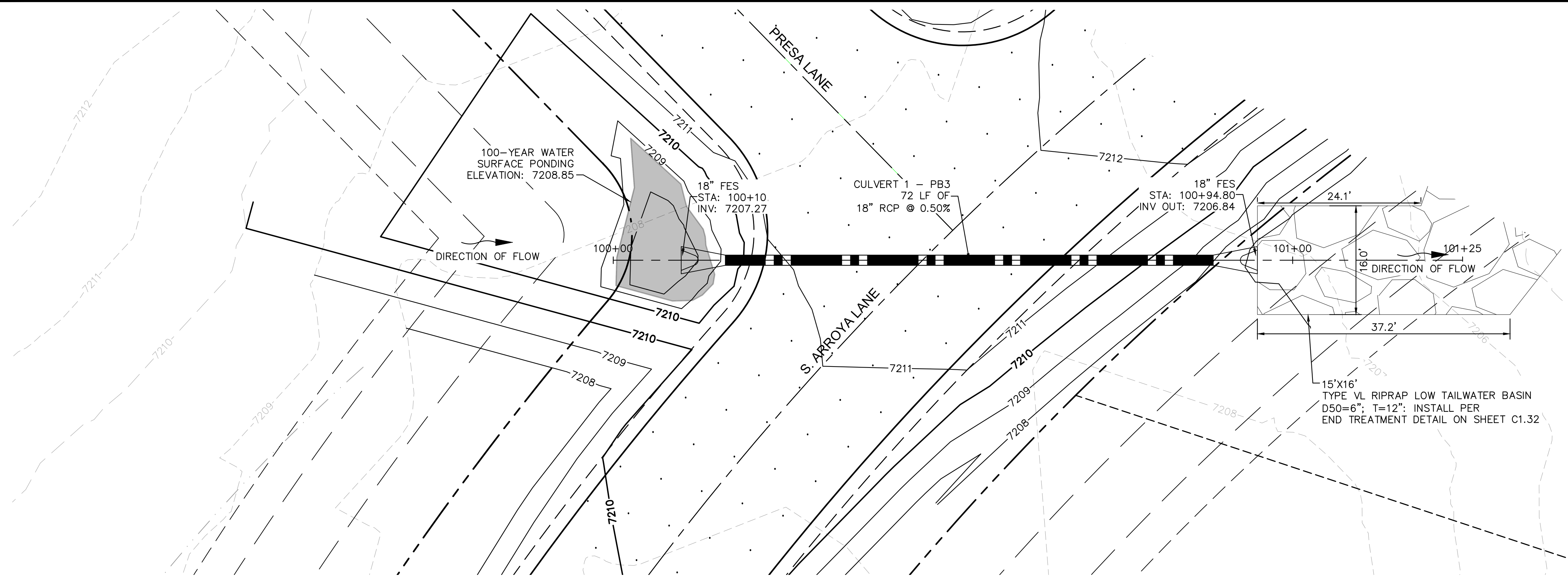
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NOTES

1. PIPE LENGTH SHOWN IS 2D PIPE LENGTH. CONTRACTOR TO VERIFY QUANTITIES FOR ACTUAL LENGTH.
2. ASSUMED FLARED END SECTIONS (FES) LENGTHS ARE THE FOLLOWING:
6'-1": 18"-30" FES
8'-1": 30" FES
8'-2": 42"-48" FES

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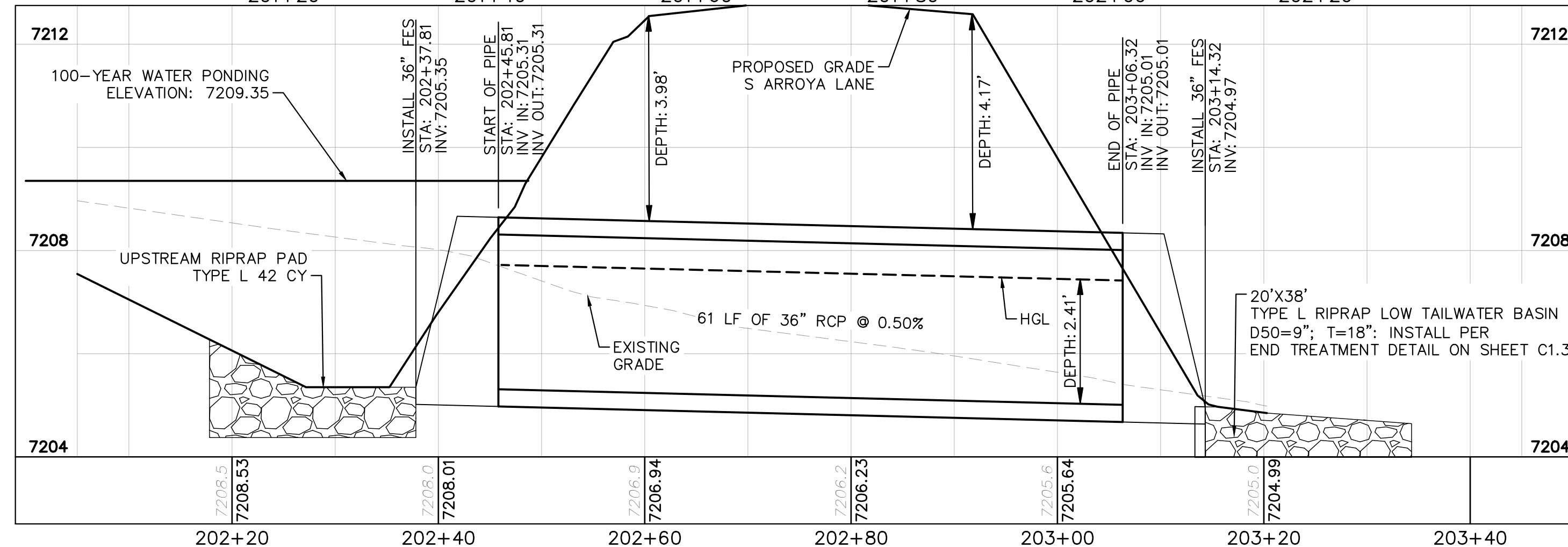
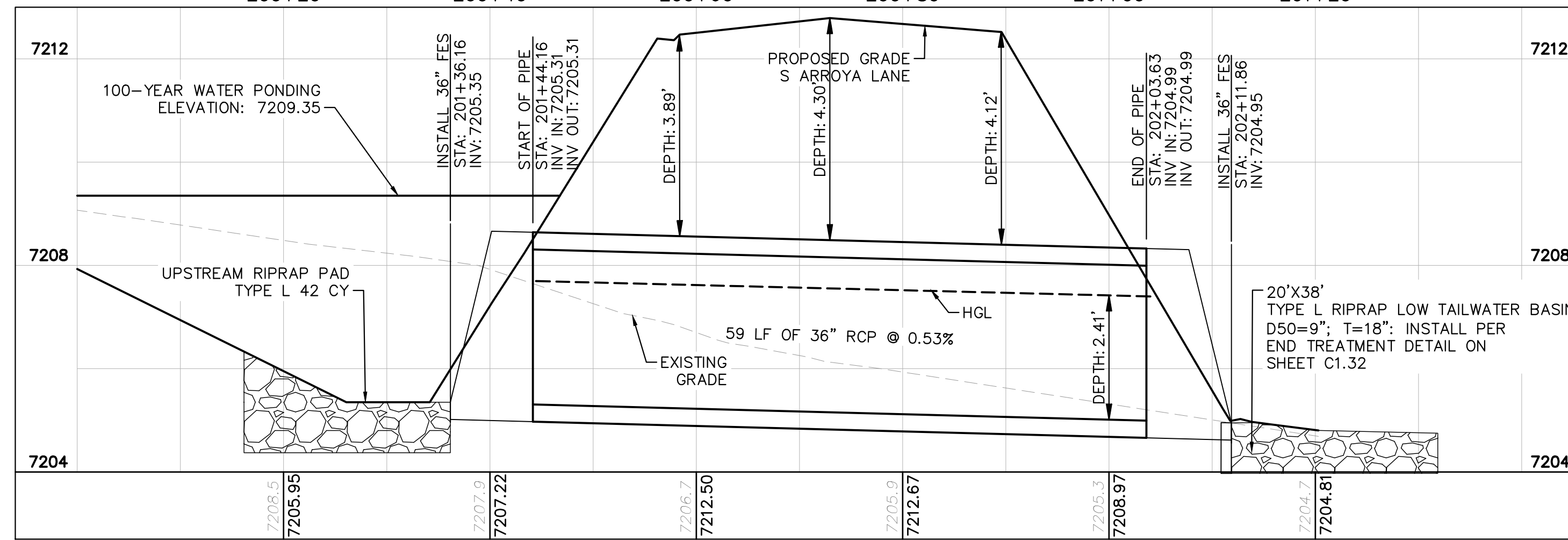
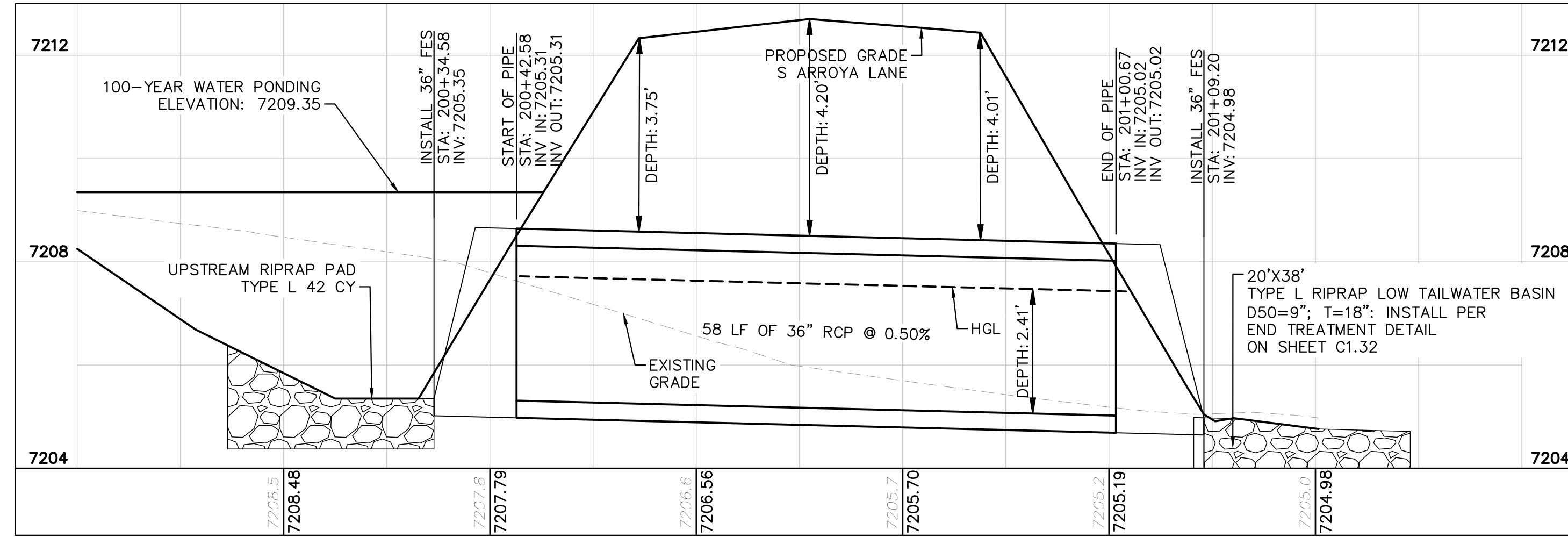
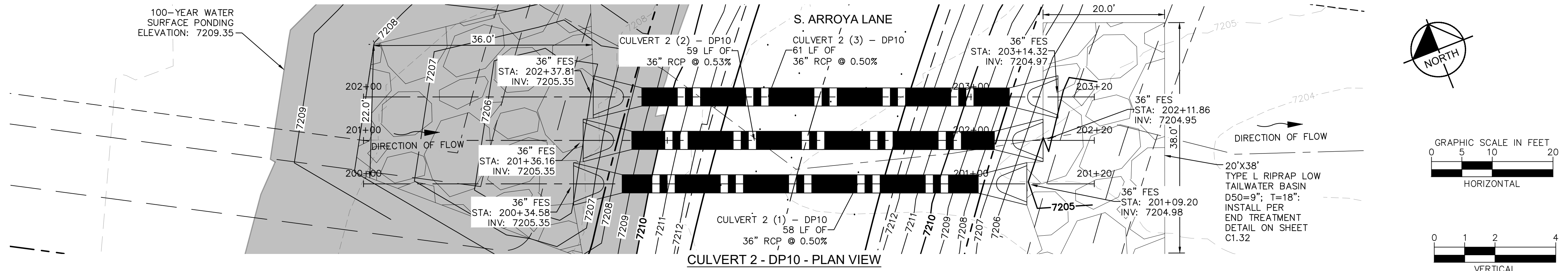
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MEMBER UTILITIES



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CHECKED BY: KRK
DATE: 9/17/2024

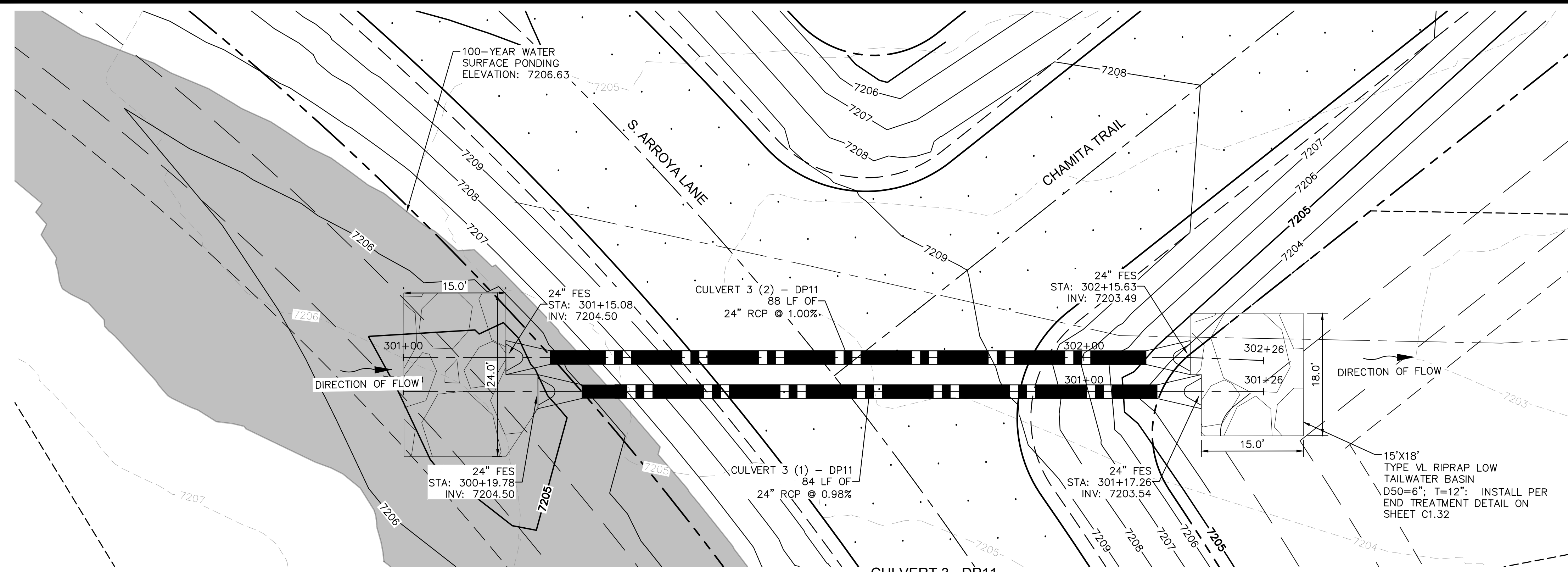
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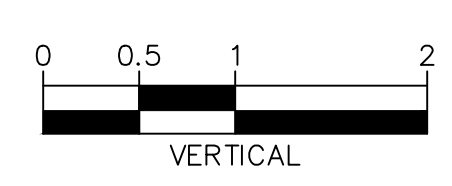
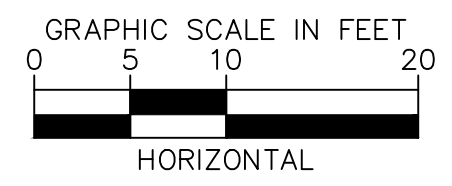
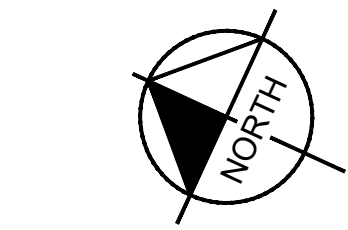
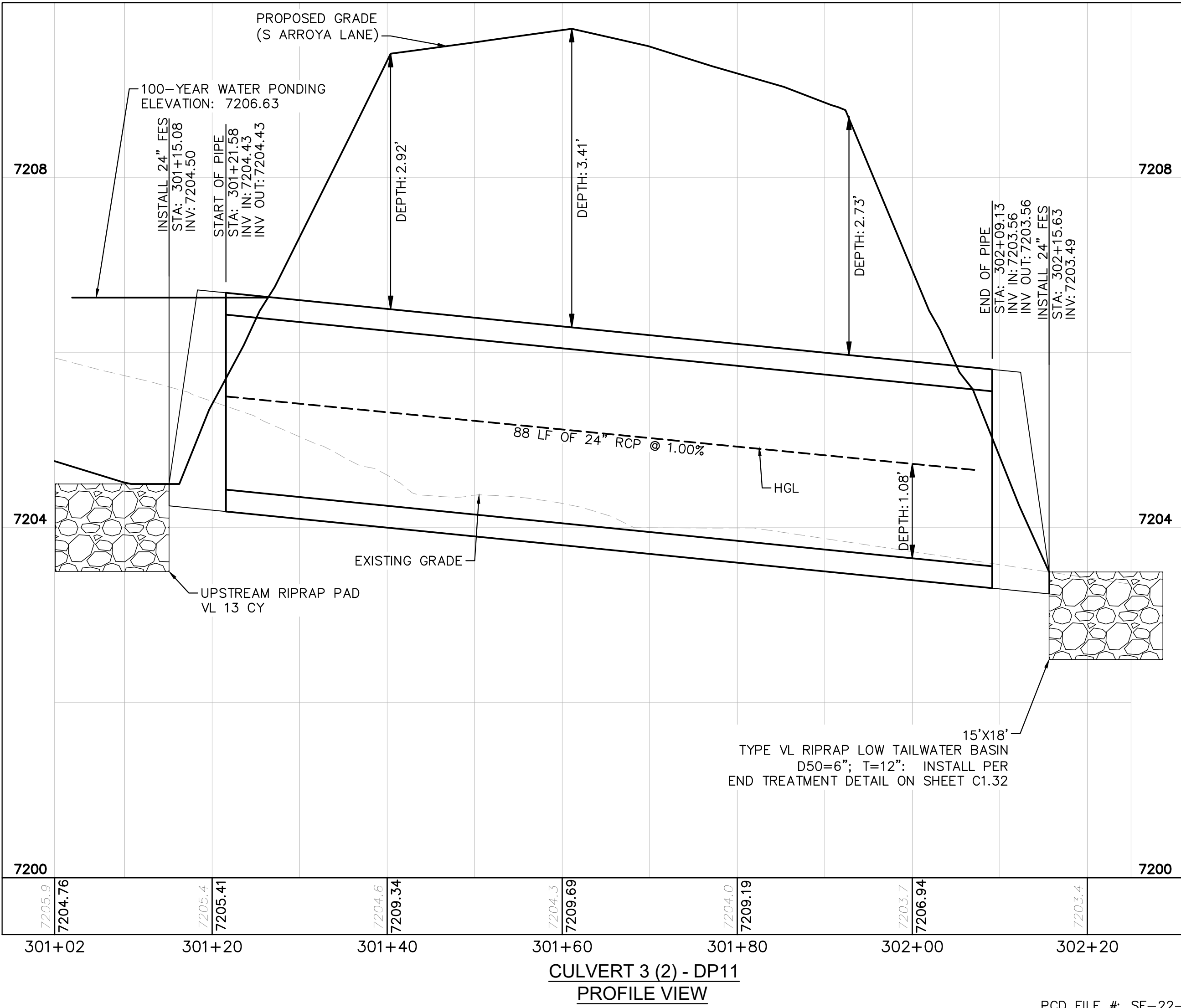
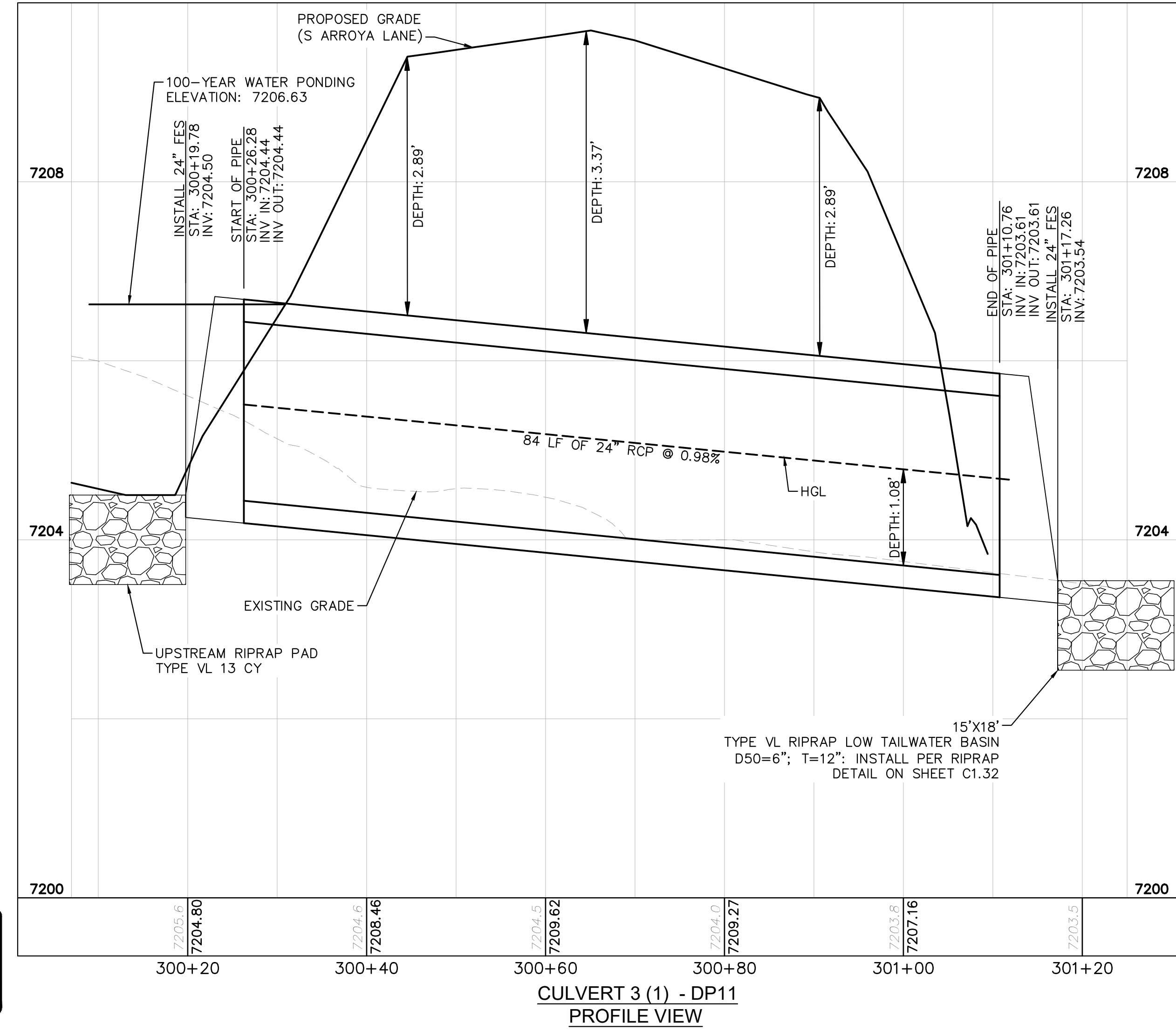
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CULVERT 3 - DP11
PLAN VIEW

NOTES

- PIPE LENGTH SHOWN IS 2D PIPE LENGTH. CONTRACTOR TO VERIFY QUANTITIES FOR ACTUAL LENGTH.
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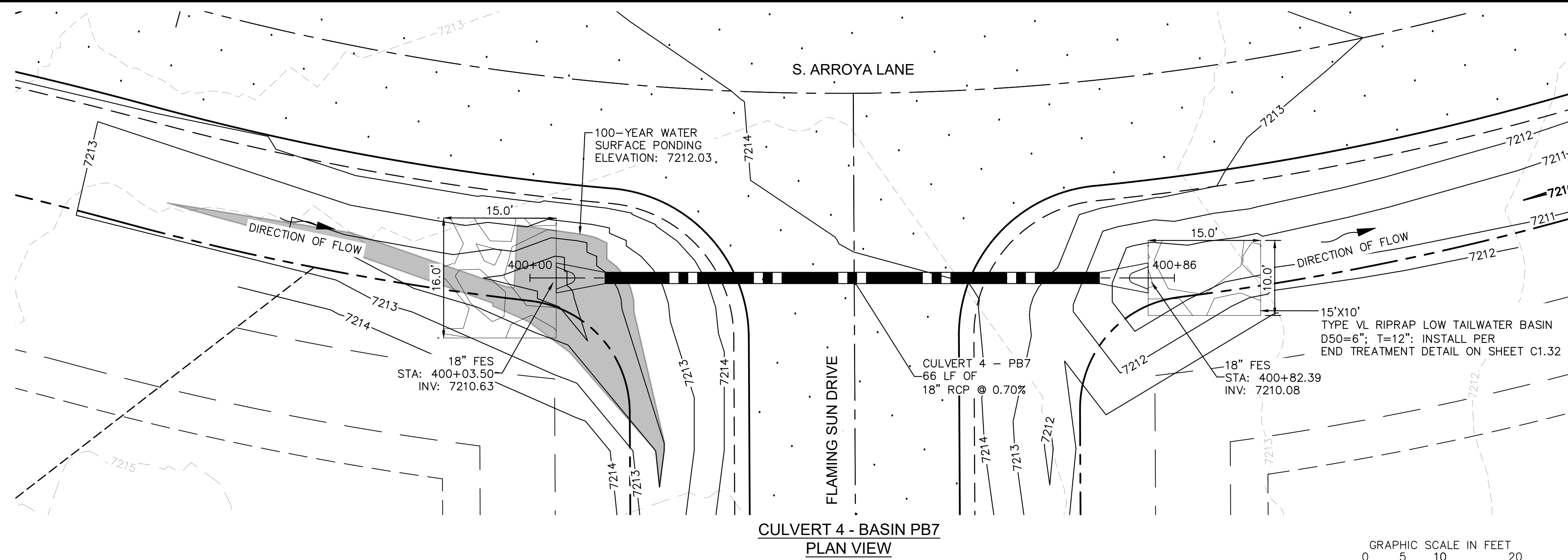


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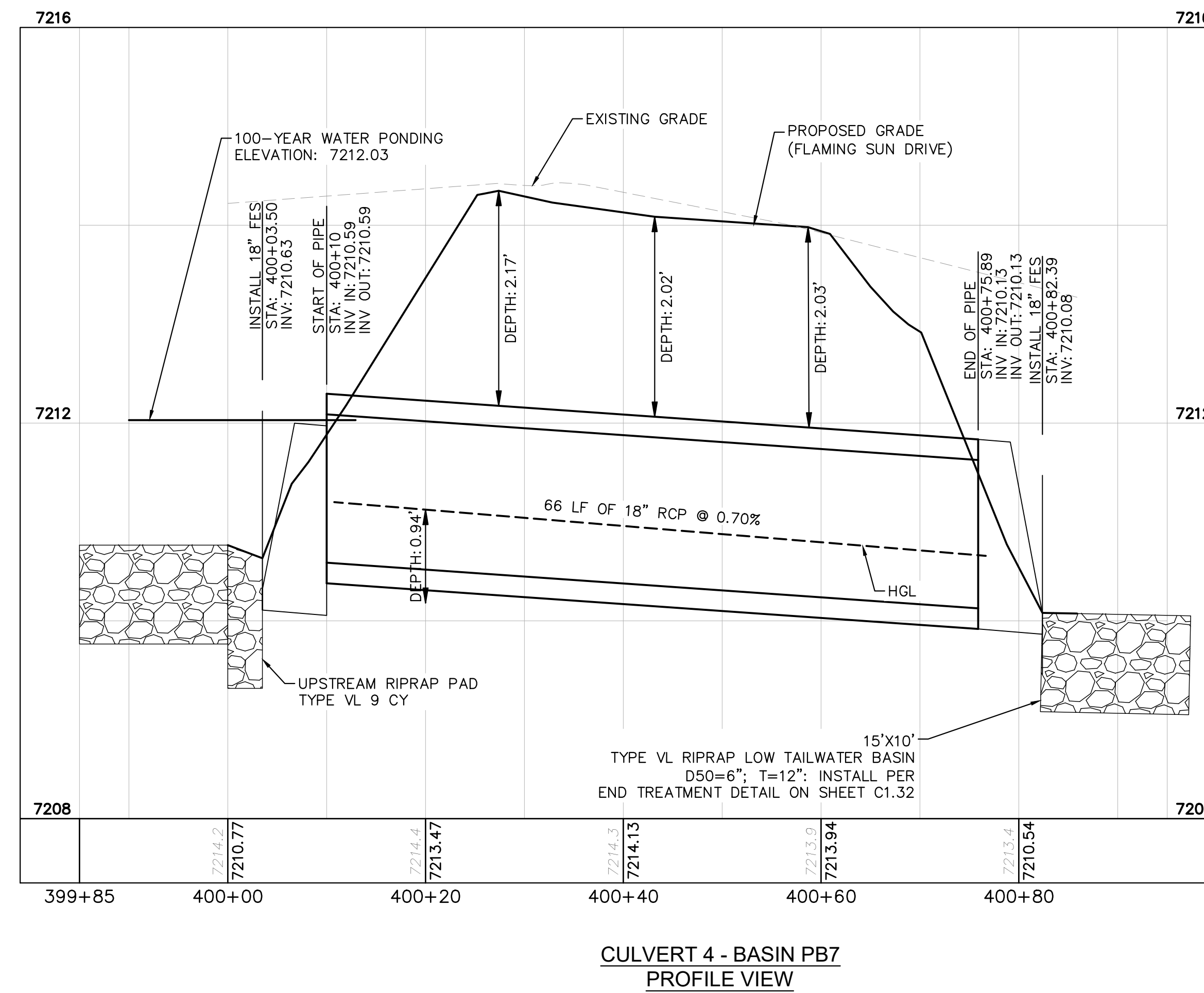
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NOTES

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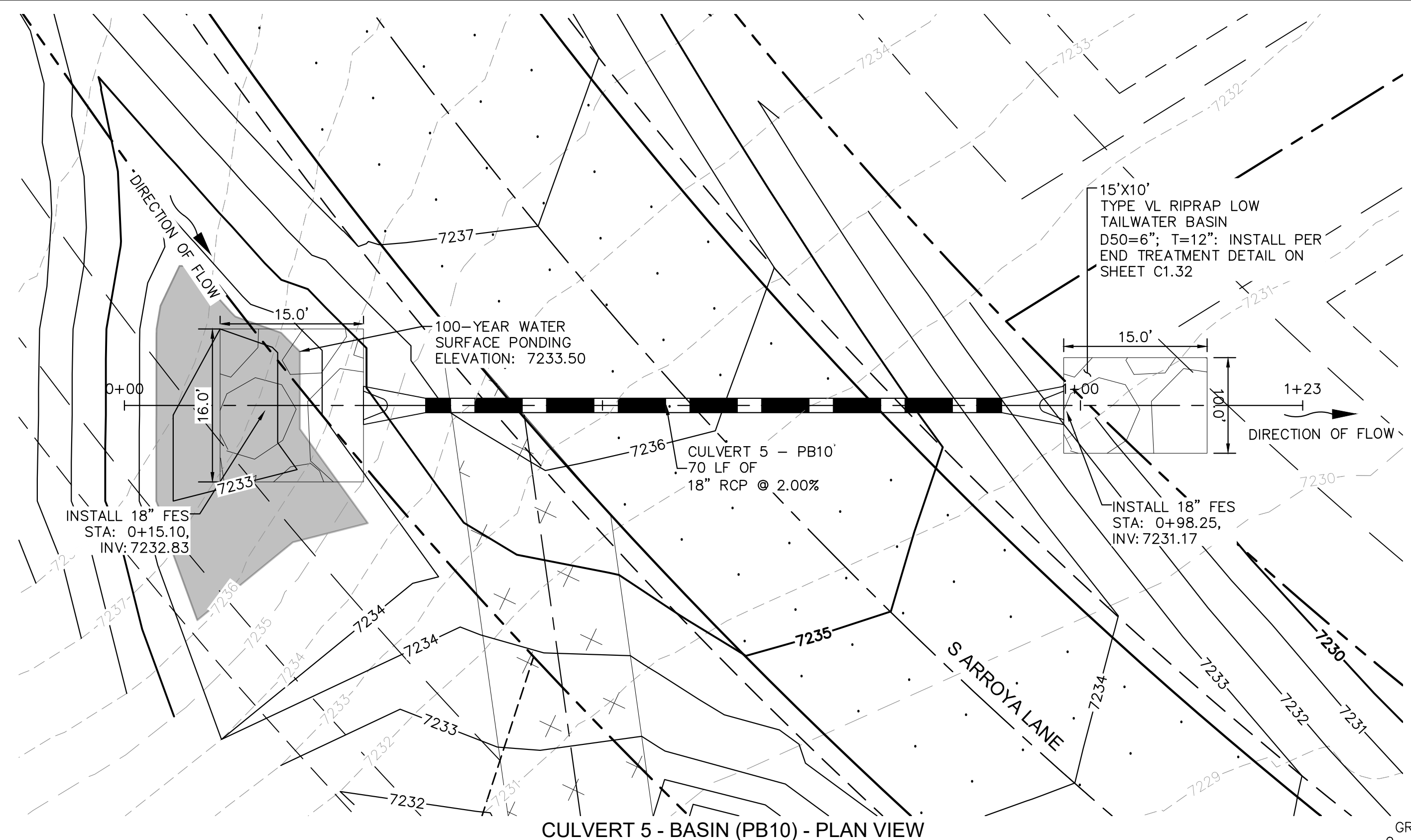
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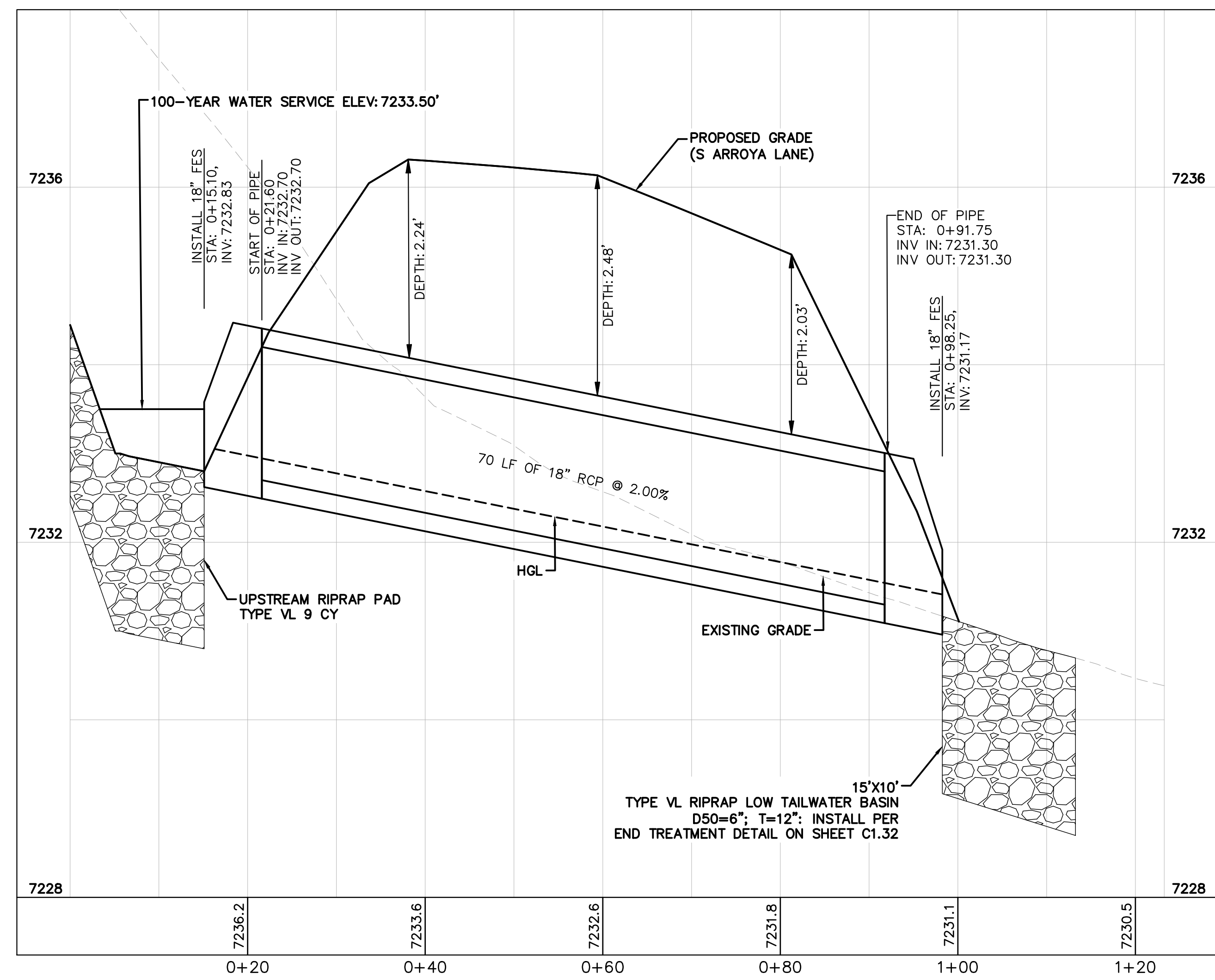
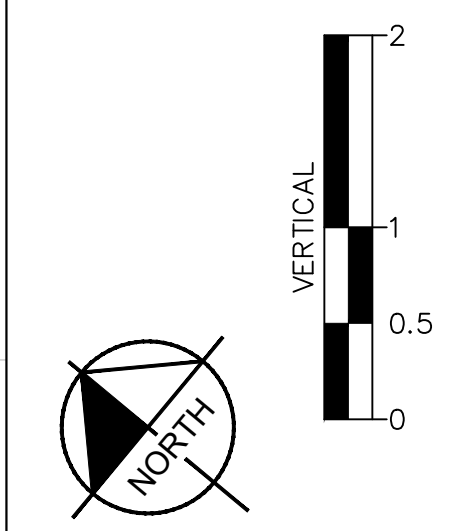
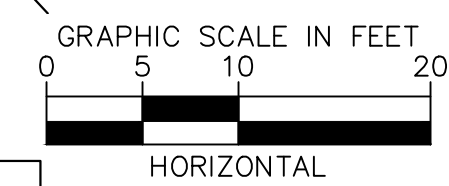


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CULVERT 5 - BASIN (PB10) - PLAN VIEW



CULVERT 5 - BASIN PB10 - PROFILE VIEW

NOTES

1. PIPE LENGTH SHOWN IS 2D PIPE LENGTH. CONTRACTOR TO VERIFY QUANTITIES FOR ACTUAL LENGTH.
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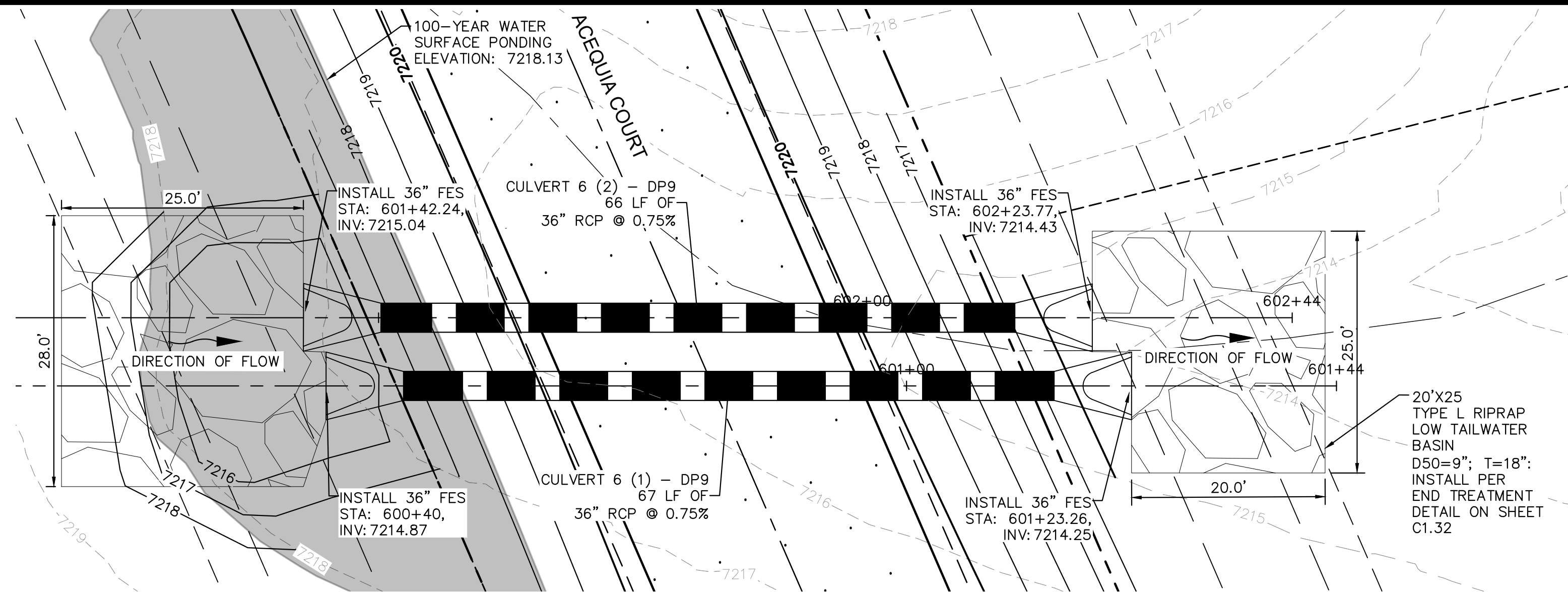


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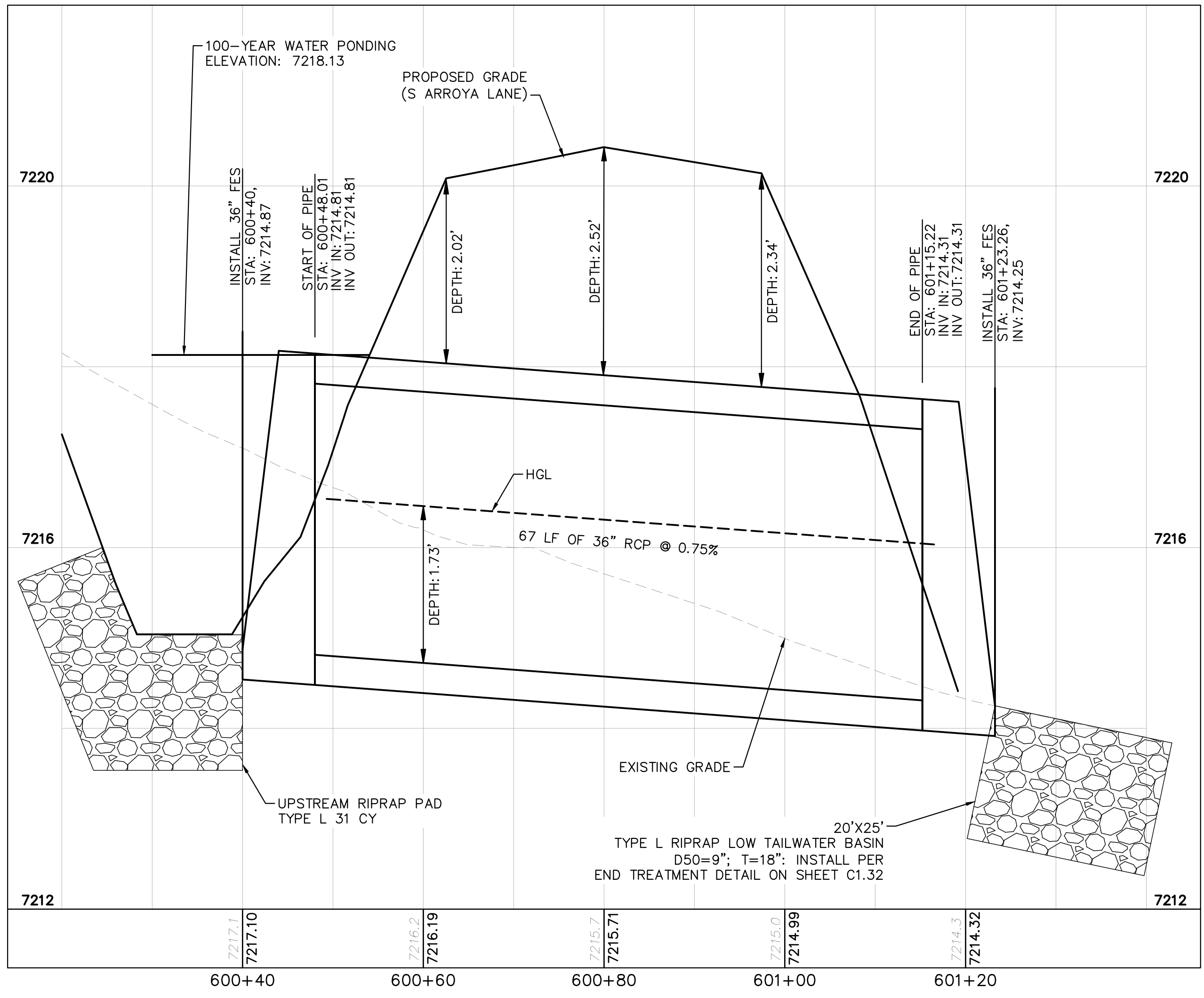
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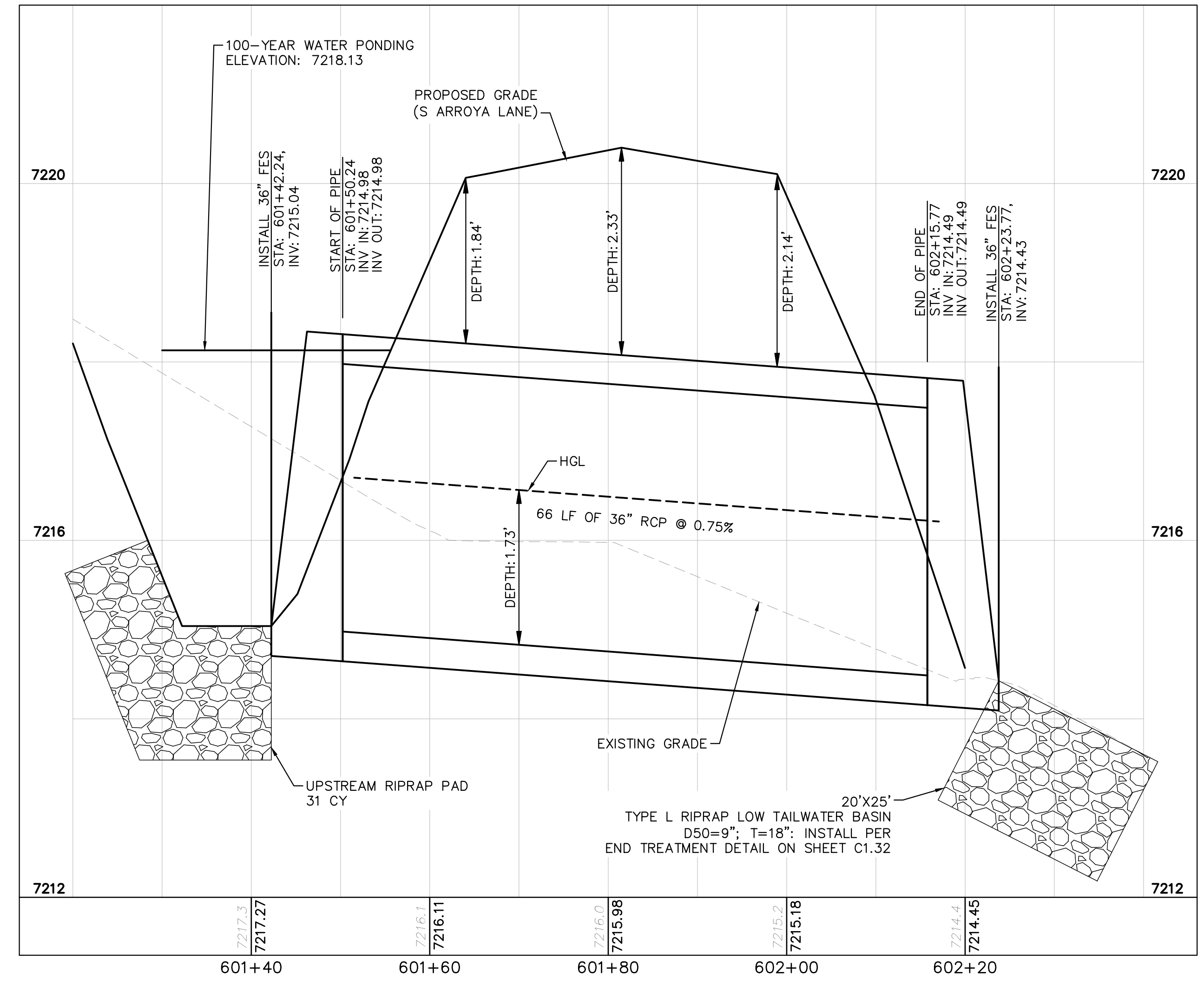
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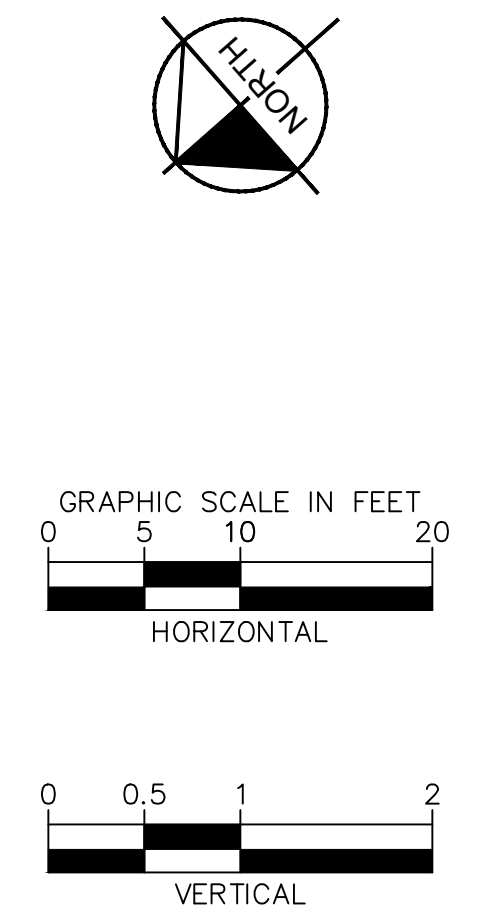
**CULVERT 6 - DP9
PLAN VIEW**



**CULVERT 6 (1) - DP9
PROFILE VIEW**



**CULVERT 6 (2) - DP9
PROFILE VIEW**



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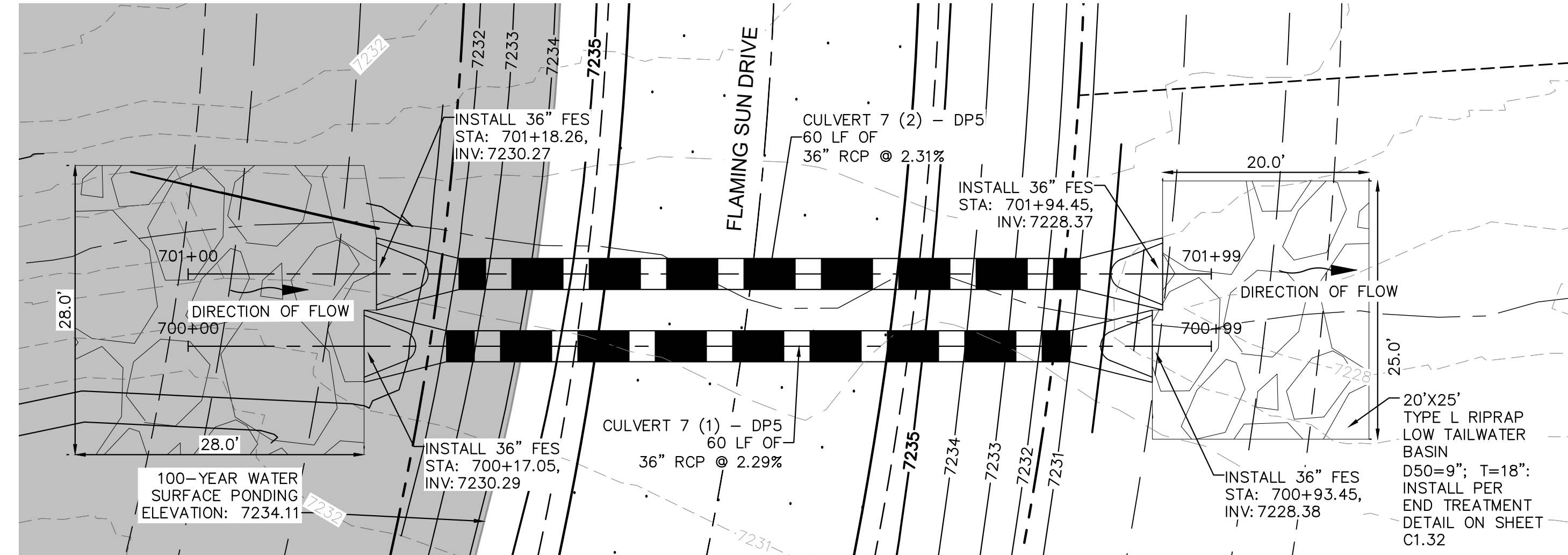
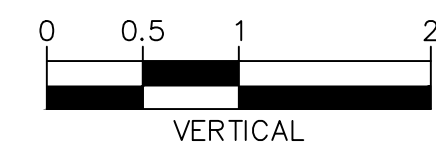
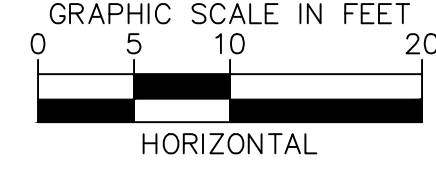
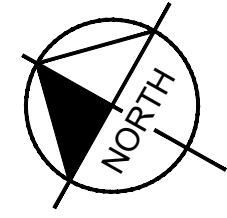
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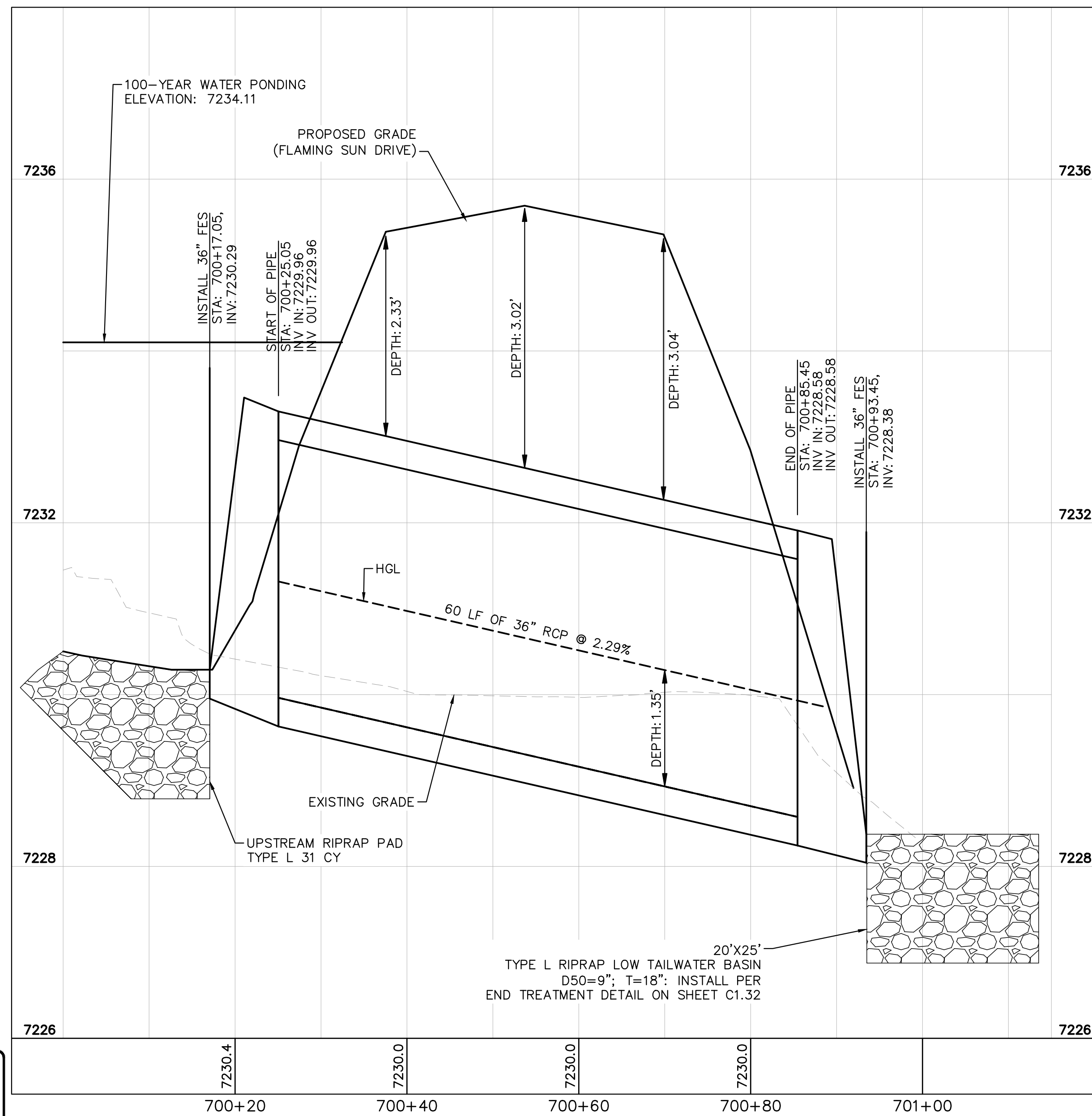
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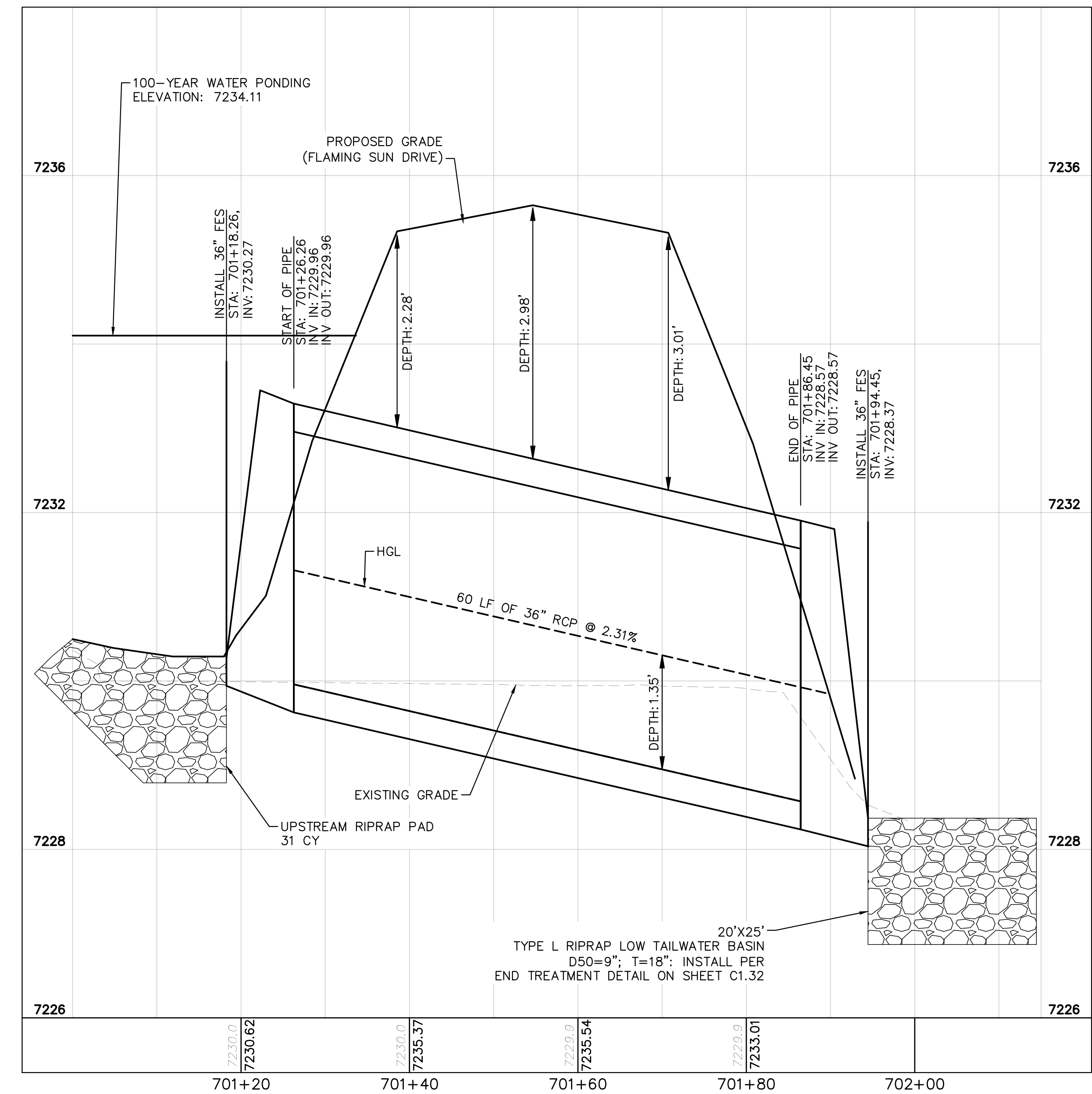
CULVERT 7 - DP5
PLAN VIEW

NOTES

- PIPE LENGTH SHOWN IS 2D PIPE LENGTH. CONTRACTOR TO VERIFY QUANTITIES FOR ACTUAL LENGTH.
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6'-1": 18"-30" FES
8'-1": 30" FES
8'-2": 42"-48" FES



CULVERT 7 (1) - DP5
PROFILE VIEW



CULVERT 7 (2) - DP5
PROFILE VIEW



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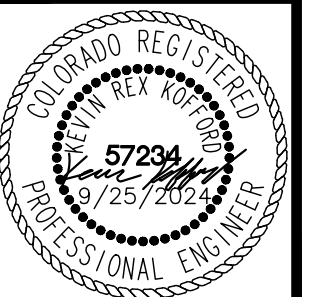
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1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE
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MEMBER UTILITIES



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2 North Nevada Avenue Suite 900
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK
DRAWN BY: MJK
CHECKED BY: KKK
DATE: 9/17/2024

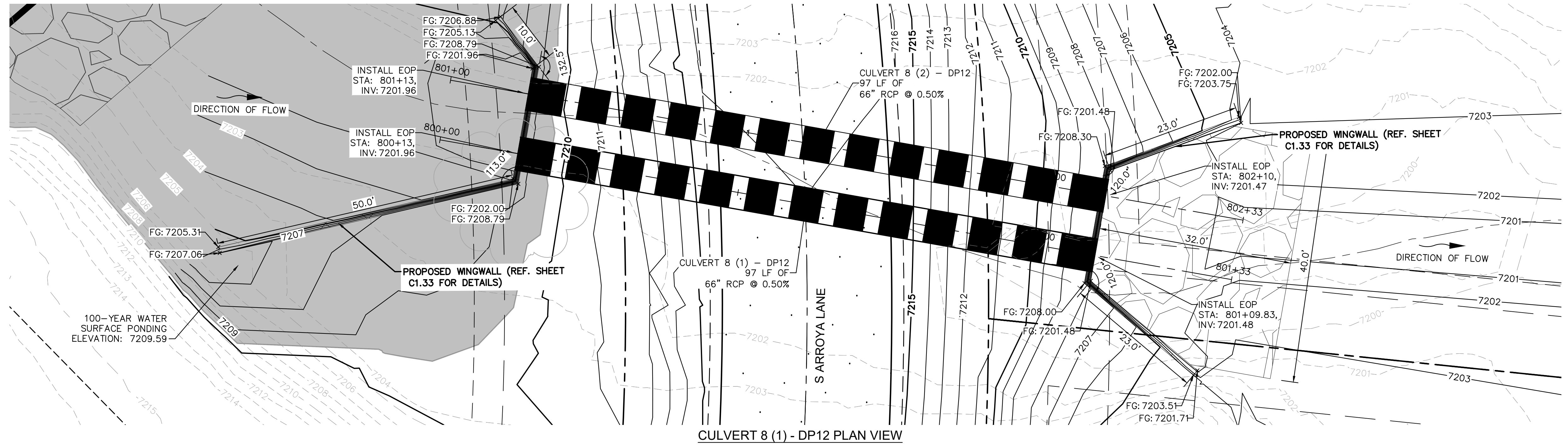
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CONSTRUCTION DOCUMENTS
CULVERT PLAN AND PROFILE



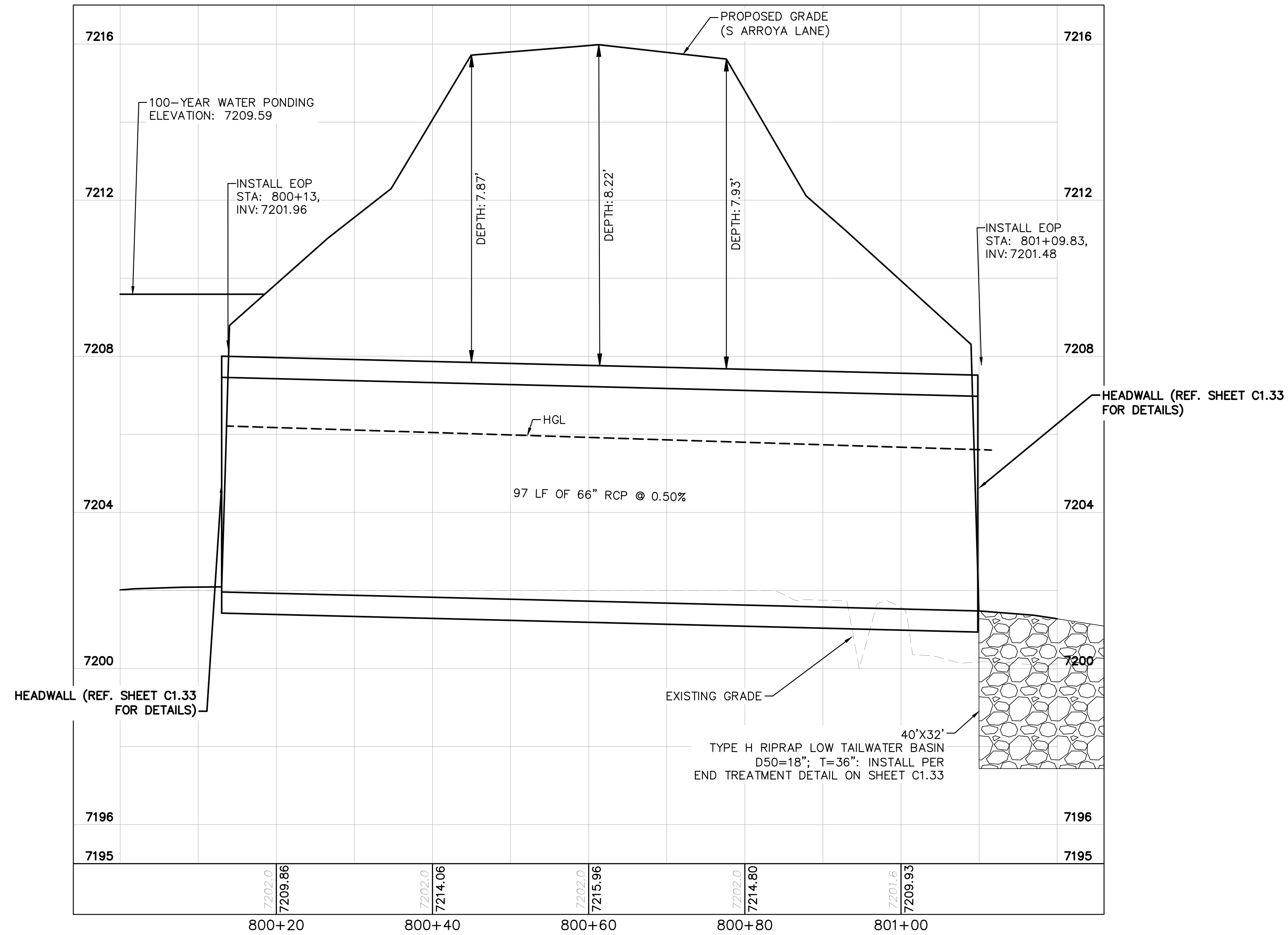
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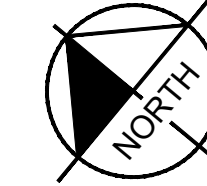
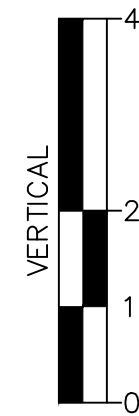
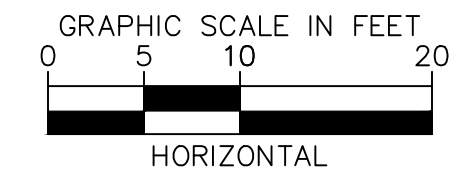
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CULVERT 8 (1) - DP12 PLAN VIEW



CULVERT 8 (1) - DP12 PROFILE VIEW



NOTES

1. PIPE LENGTH SHOWN IS 2D PIPE LENGTH. CONTRACTOR TO VERIFY QUANTITIES FOR ACTUAL LENGTH.
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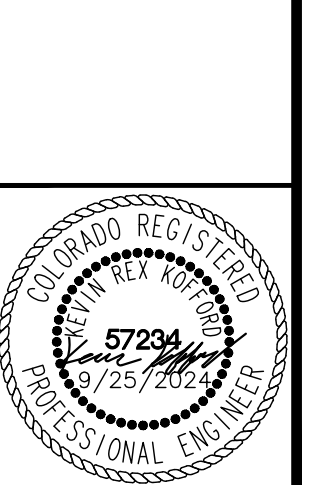
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 2024 KIMLEY-HORN AND ASSOCIATES, INC.
 2 North Nevada Avenue Suite 900
 Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK
 DRAWN BY: MJK
 CHECKED BY: KKK
 DATE: 9/17/2024

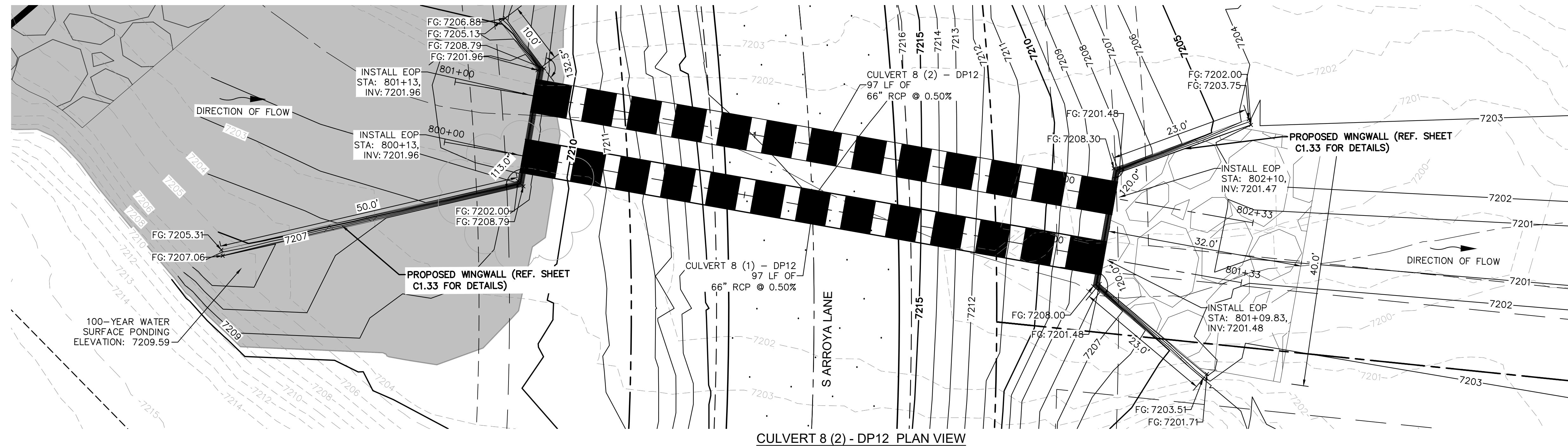
EAGLEVIEW
 EL PASO COUNTY, COLORADO
 CONSTRUCTION DOCUMENTS
CULVERT PLAN AND PROFILE



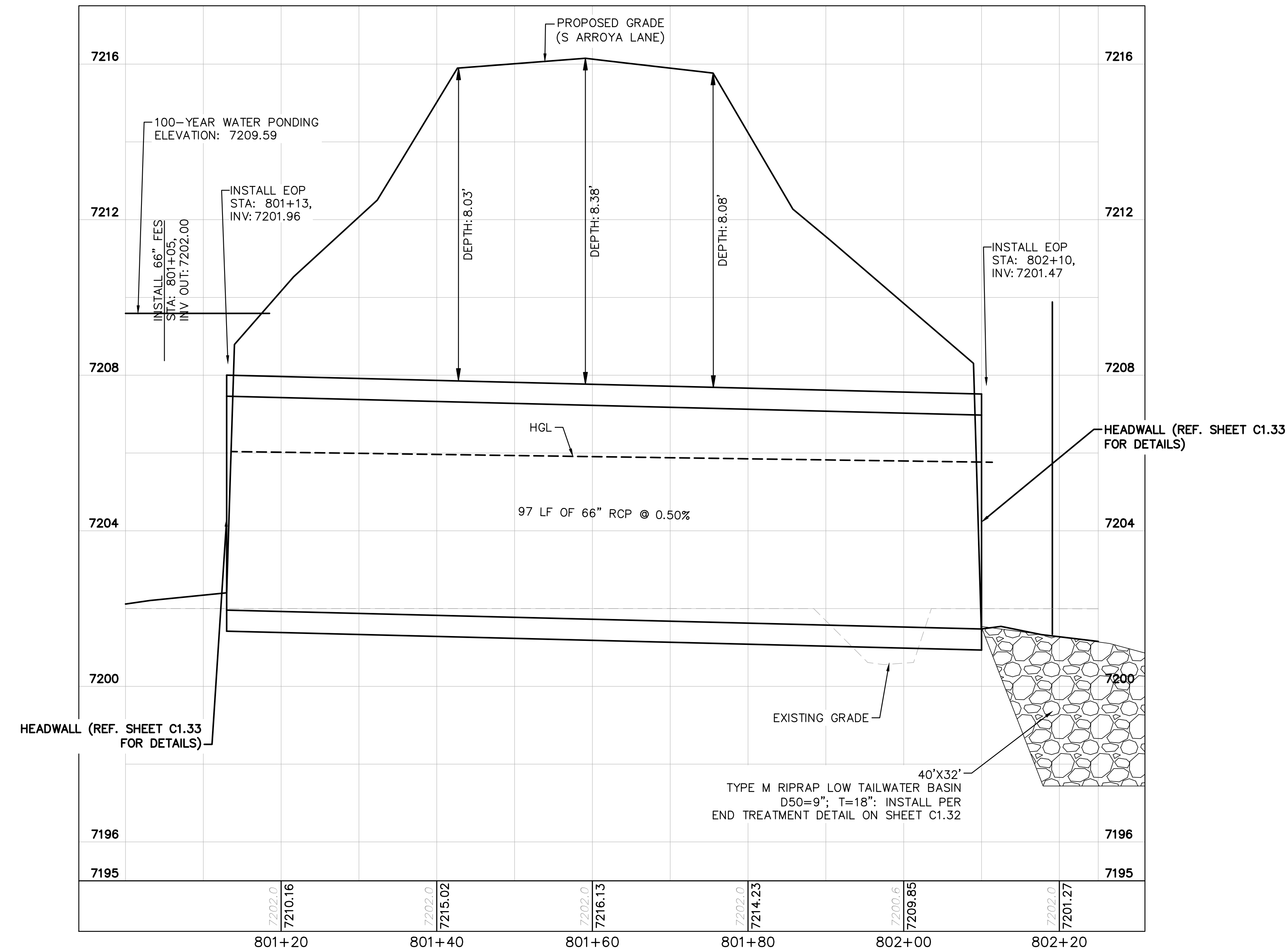
PROJECT NO.
 196106001
 SHEET

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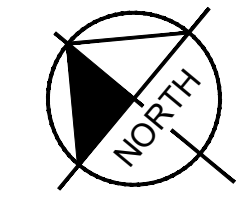
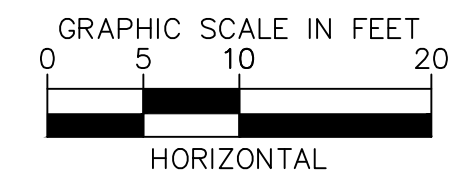
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CULVERT 8 (2) - DP12 PLAN VIEW



CULVERT 8 (2) - DP12 PROFILE VIEW



NOTES

1. PIPE LENGTH SHOWN IS 2D PIPE LENGTH. CONTRACTOR TO VERIFY QUANTITIES FOR ACTUAL LENGTH.
2. ASSUMED FLARED END SECTIONS (FES) LENGTHS ARE THE FOLLOWING:
 6'-1": 18"-30" FES
 8'-1": 30" FES
 8'-2": 42"-48" FES



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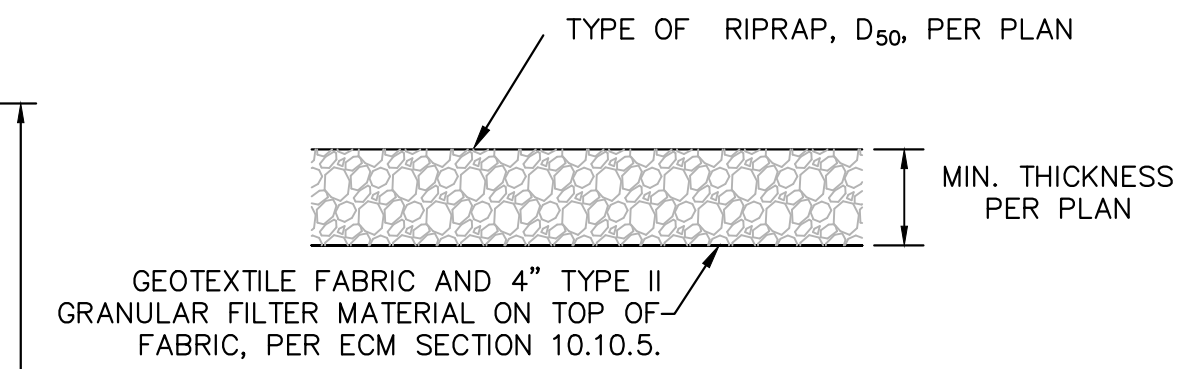
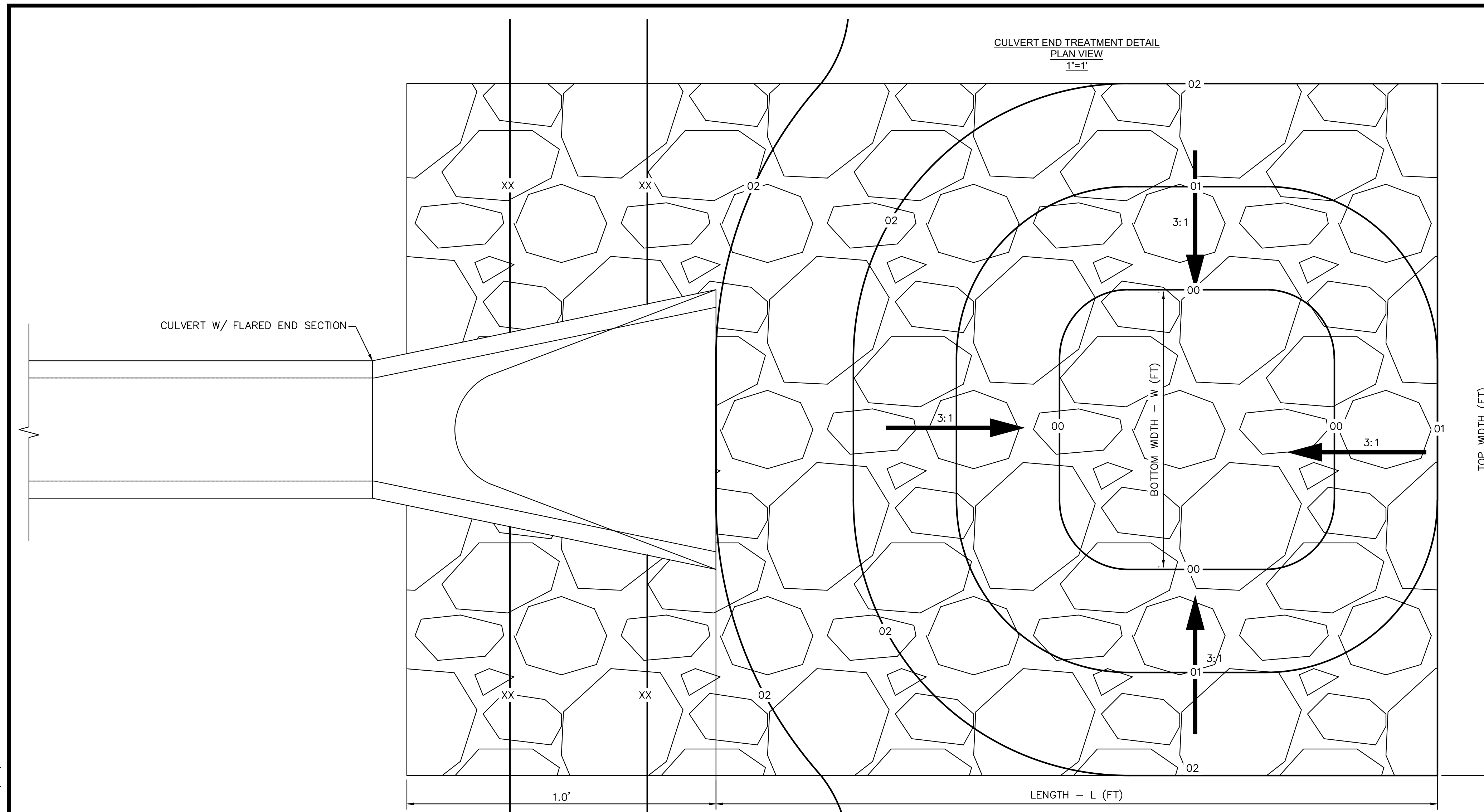


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- D₅₀ = MEAN PARTICLE SIZE (INTERMEDIATE DIMENSION) BY WEIGHT.
- RIP RAP SECTION THICKNESS SHALL BE 2.0 TIMES THE SPECIFIED MEAN PARTICLE SIZE (I.E. D₅₀ X 2.0 MINIMUM) PER ECM SECTION 10.10.3.
- ALL RIP RAP SHALL BE UNDERLAIN WITH GEOTEXTILE FILTER FABRIC FOR STABILIZATION.
- RIP RAP SHALL WRAP AROUND AND EXTEND 2' MIN. BEHIND FLUME AND FLARED END SECTIONS.

TYPICAL RIPRAP SECTION DETAIL

Table 506-2

Pay Item	Stone Size d ₅₀ ¹ (Inches)	Percent of Material Smaller Than Typical Stone ²	Typical Stone Dimensions ³ (Inches)	Typical Stone Weight ⁴ (Pounds)
Riprap	9	70-100 50-70 35-50 2-10	15 12 9 3	160 85 35 1.3
Riprap	12	70-100 50-70 35-50 2-10	21 18 12 4	440 275 85 3
Riprap	18	100 50-70 35-50 2-10	30 24 18 6	1280 650 275 10
Riprap	24	100 50-70 35-50 2-10	42 33 24 9	3500 1700 650 35

¹d₅₀ = nominal stone size
²based on typical rock mass
³equivalent spherical diameter
⁴based on a specific gravity = 2.5

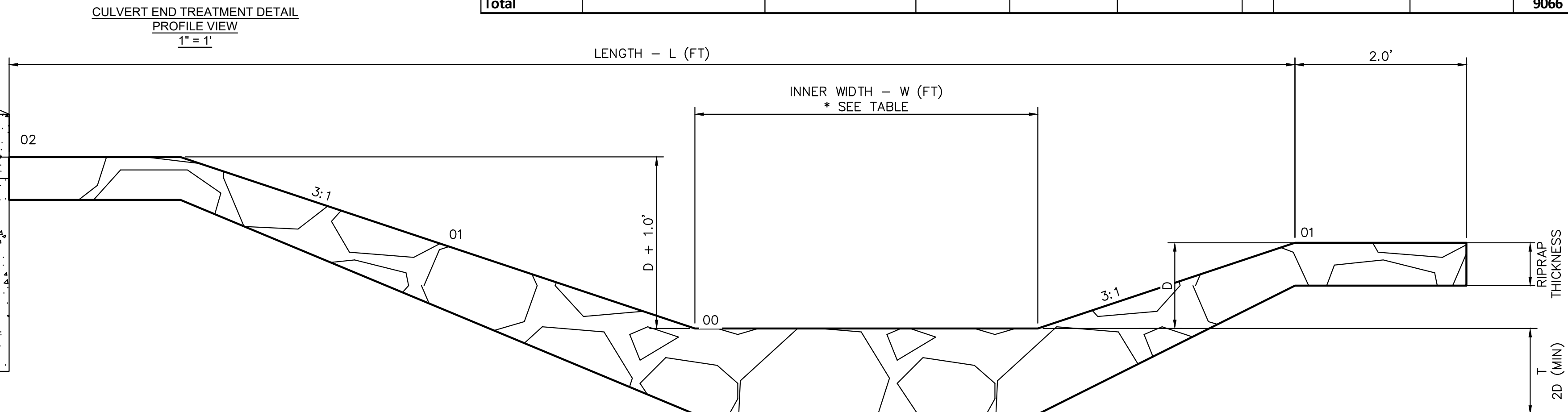
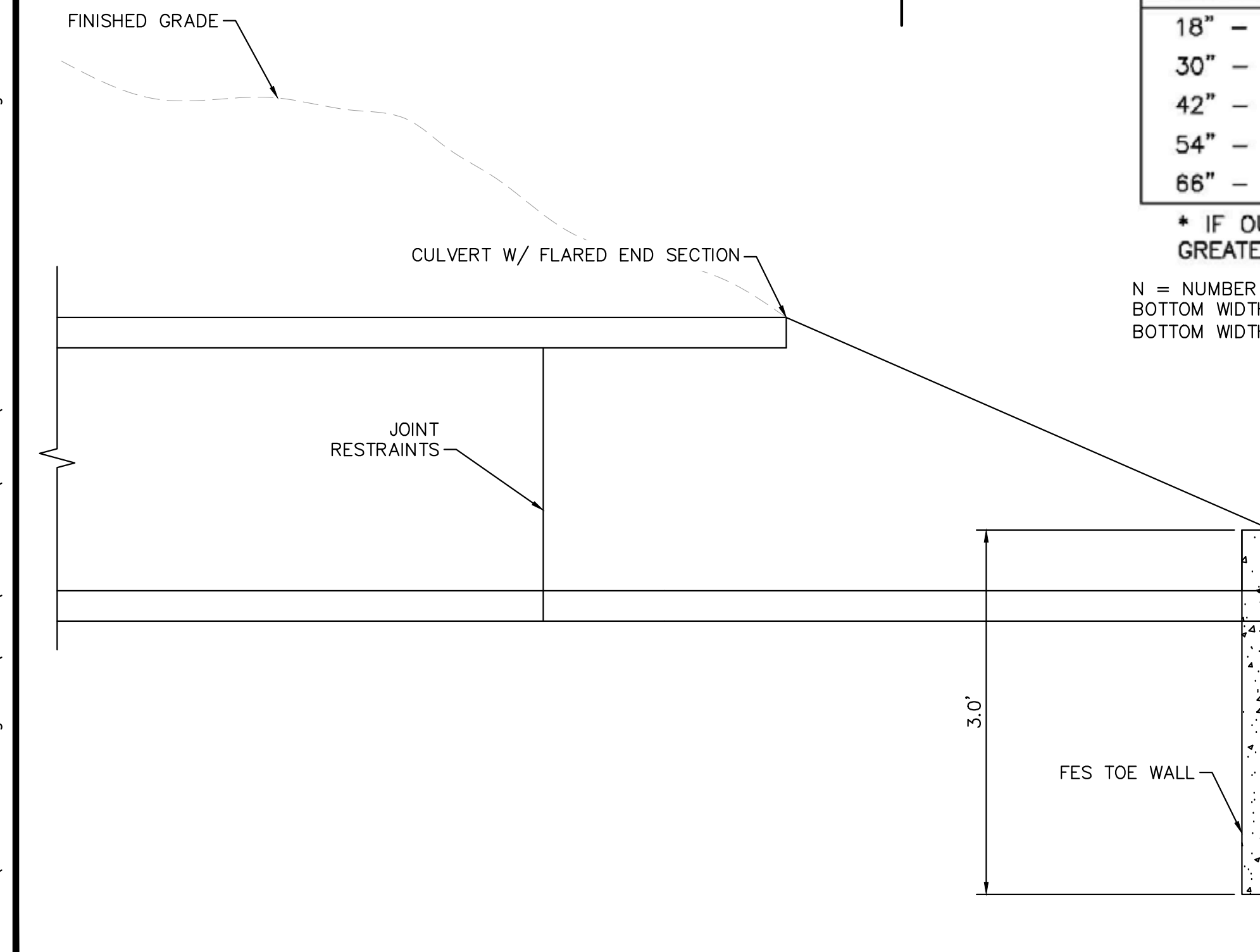
PIPE SIZE OR BOX HEIGHT	D	W*	L
18" - 24"	1'-0"	4'	15'
30" - 36"	1'-6"	6'	20'
42" - 48"	2'-0"	7'	24'
54" - 60"	2'-6"	8'	28'
66" - 72"	3'-0"	9'	32'

* IF OUTLET PIPE IS A BOX CULVERT WITH A WIDTH GREATER THAN W, THEN W = CULVERT WIDTH

N = NUMBER OF BARRELS
 BOTTOM WIDTH FOR SINGLE BARREL CULVERTS = W
 BOTTOM WIDTH FOR NUMEROUS BARREL CULVERTS = W(N) + 4(N-1)

Eagleview Low Tailwater Basin Summary Table

Culvert	Pipe Size (in)	Barrels (No.)	Bottom Width -W (ft)	Length - L (ft)	Top Width (ft)	Tailwater Basin Depth - D (ft)	D ₅₀ (in)	RipRap Thickness - [2*D ₅₀] (ft)	MHFD Riprap Type	Vol (ft ³)	Vol (yd ³)
1	18	1	4	15	10	1	6	1	VL	150	5.56
2	36	3	26	20	35	1.5	9	1.5	L	1050	38.89
3	24	2	12	15	18	1	6	1	VL	270	10.00
4	18	1	4	15	10	1	6	1	VL	150	5.56
5	18	1	4	15	10	1	6	1	VL	150	5.56
6	36	2	16	20	25	1.5	9	1.5	L	750	27.78
7	36	2	16	20	25	1.5	9	1.5	L	750	27.78
8	66	2	22	32	40	3	18	3	H	3840	142.22
Pond 3 Outfall	42	1	11	24	23	2	18	3	H	1656	61.33
WQ Pond 1	24	1	4	15	10	1	6	1	VL	150	5.56
WQ Pond 2	18	1	4	15	10	1	6	1	VL	150	5.56
Total										9066	336

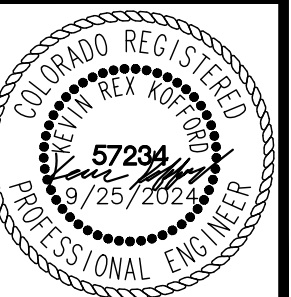


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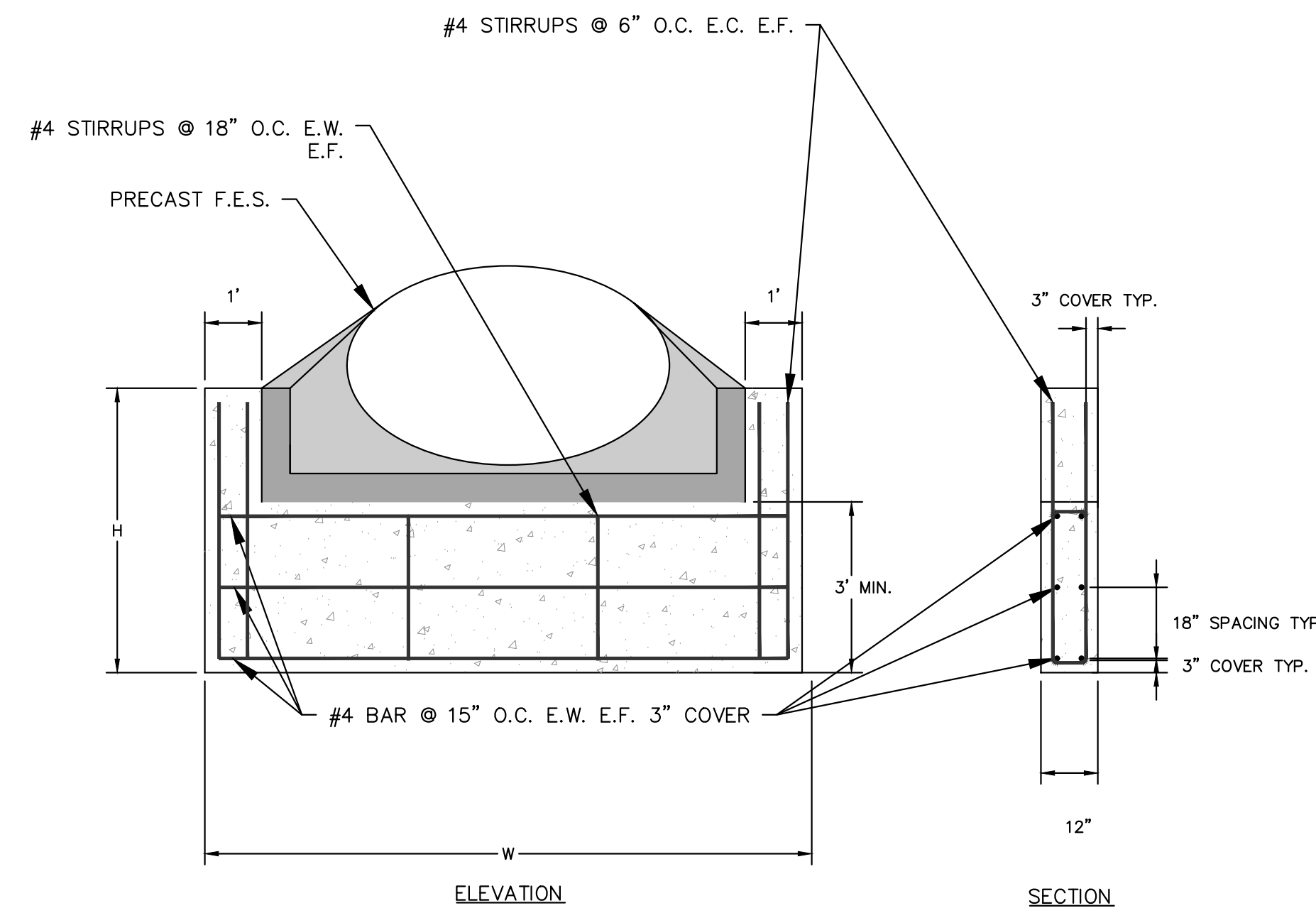
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 CULVERT END TREATMENT DETAILS



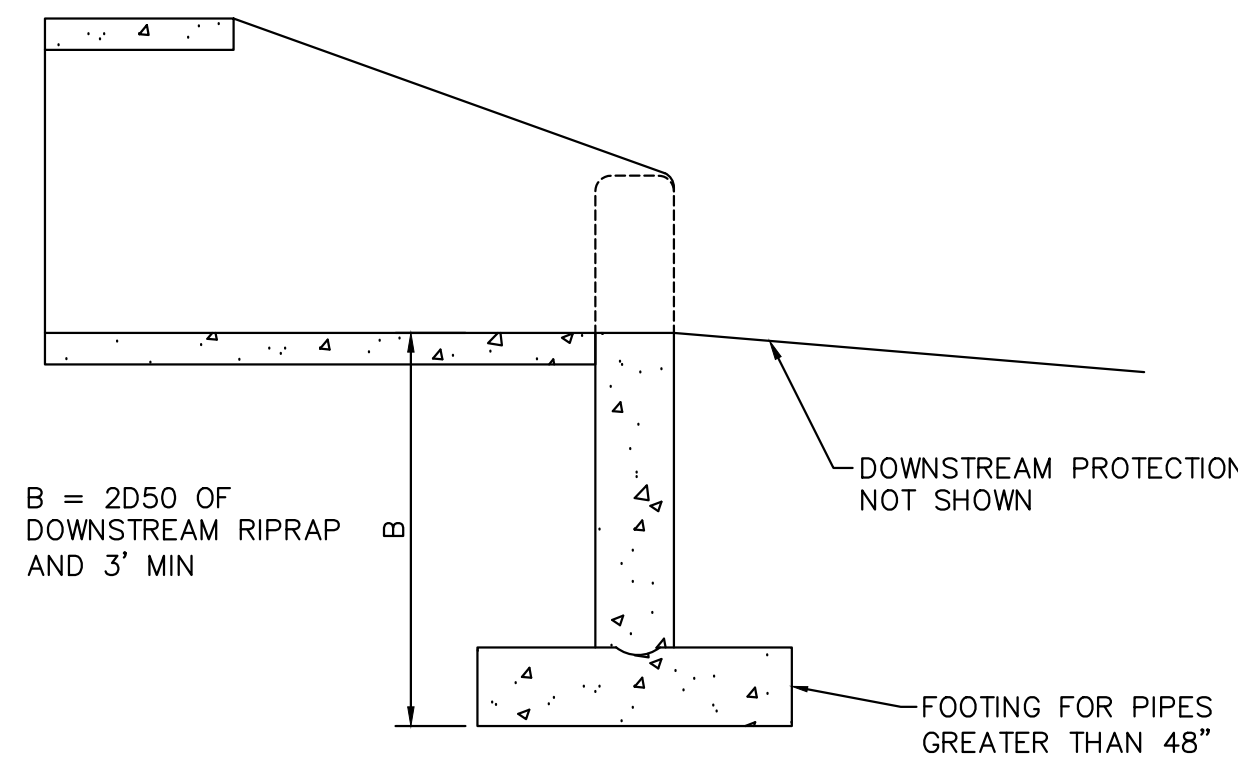
PROJECT NO.
196106001

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C1.32

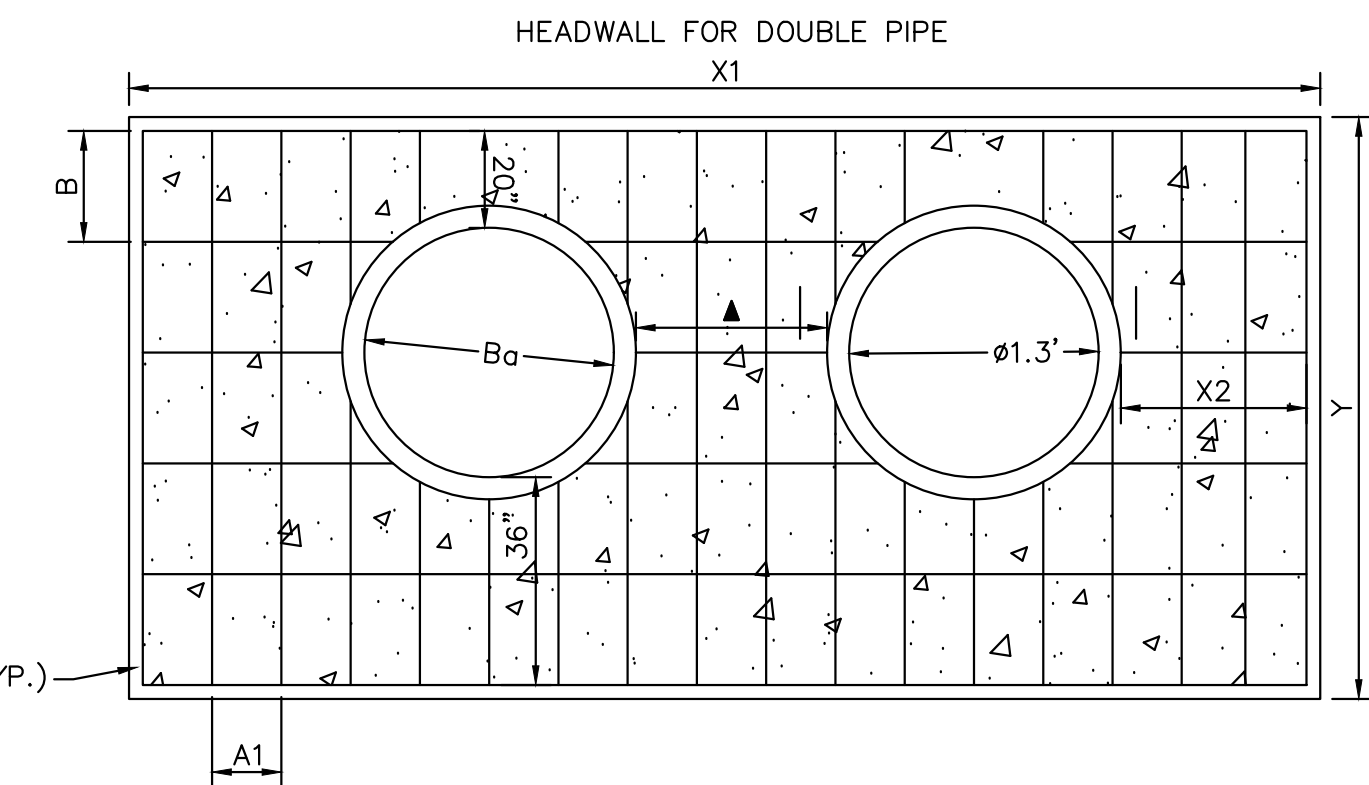


CULVERT TOE WALL DETAIL
N.T.S.

1. INSTALL CUTOFF WALLS UNDER ALL FLARED END SECTIONS.
2. REFER TO SIZE CHART ABOVE FOR PROPER SIZE
3. REFER TO CDOT STANDARD DRAWING M-603-10 FOR CONCRETE FLARED-END SECTION DETAILS
4. CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI MINIMUM.
5. ALL CONNECTIONS, CONCRETE CUTOFF WALL (FOR END SECTION), STRUCTURE EXCAVATION AND BACKFILL, AND EXTRA WORK REQUIRED TO MODIFY OTHER PAY ITEMS SHALL BE INCLUDED IN THE COST OF REINFORCED CONCRETE END SECTION.
6. EXCAVATION FOR RIPRAP SHALL BE INCLUDED IN THE COST OF THE RIPRAP.

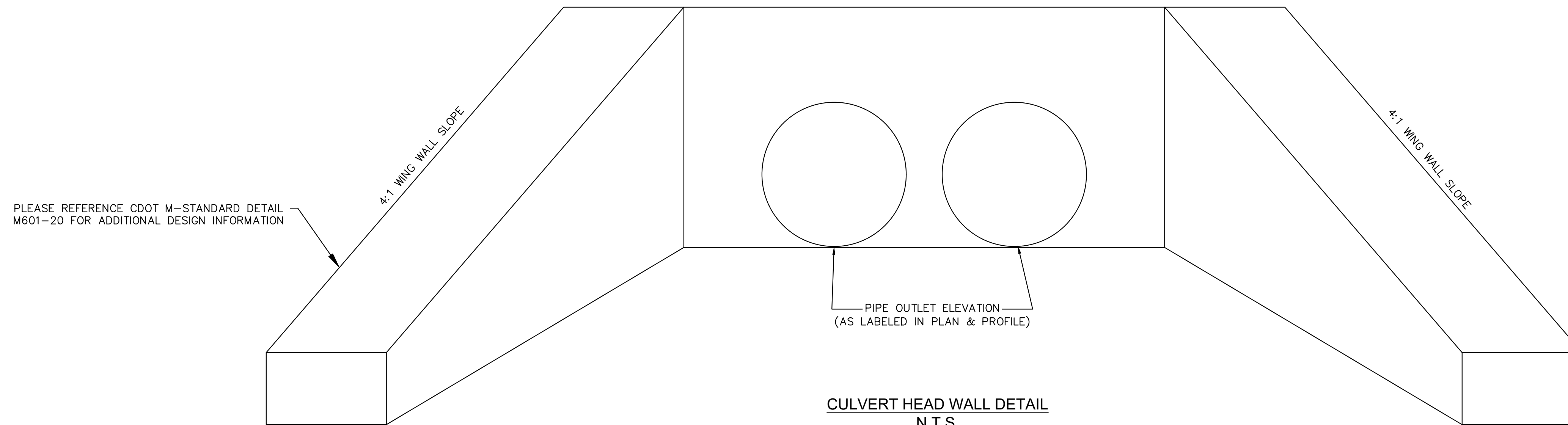


CULVERT TOE WALL DETAIL
N.T.S.



CULVERT HEAD WALL DETAIL
N.T.S.

PLEASE REFERENCE CDOT M-STANDARD DETAILS M601-10 AND M601-12 FOR ADDITIONAL DESIGN INFORMATION PLEASE NOTE THAT O.D.-O.D.



CULVERT HEAD WALL DETAIL
N.T.S.

PLEASE REFERENCE CDOT M-STANDARD DETAILS M601-10 AND M601-12 FOR ADDITIONAL DESIGN INFORMATION PLEASE NOTES THAT O.D.-O.D. SPACING BETWEEN RCP PIPES SHALL BE 3.0' TYPICAL.

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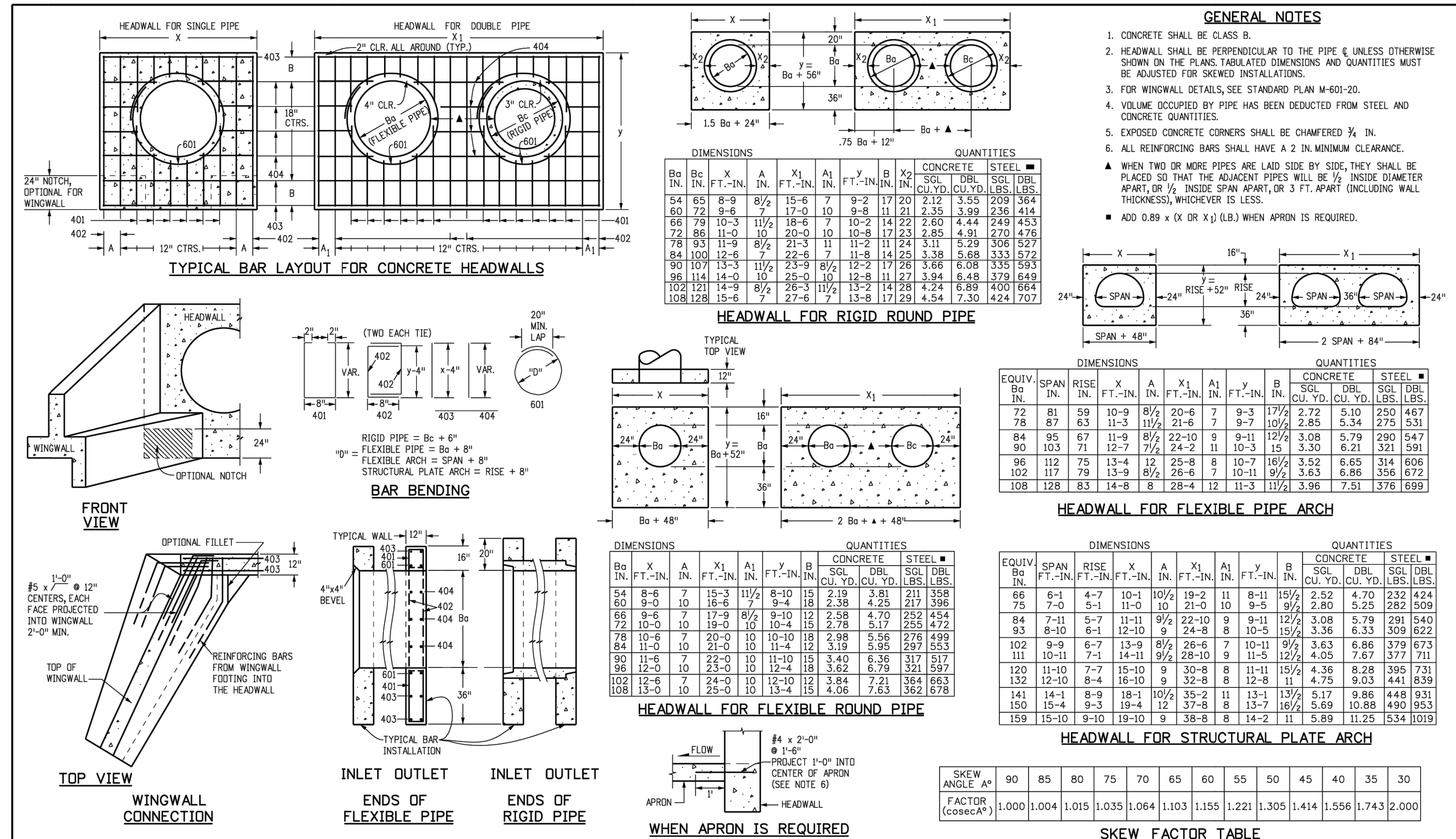
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CONSTRUCTION DOCUMENTS
CULVERT DETAILS



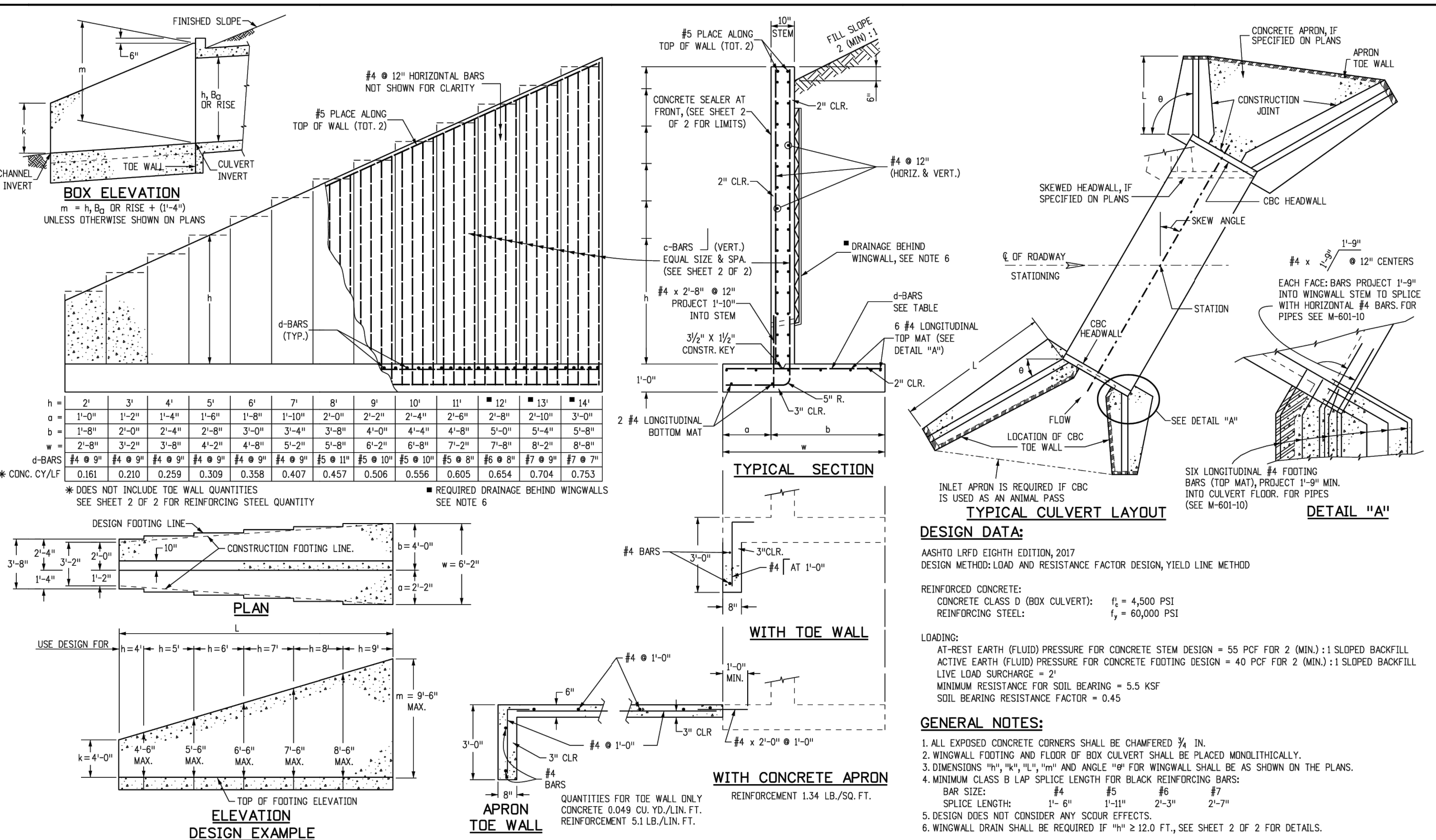
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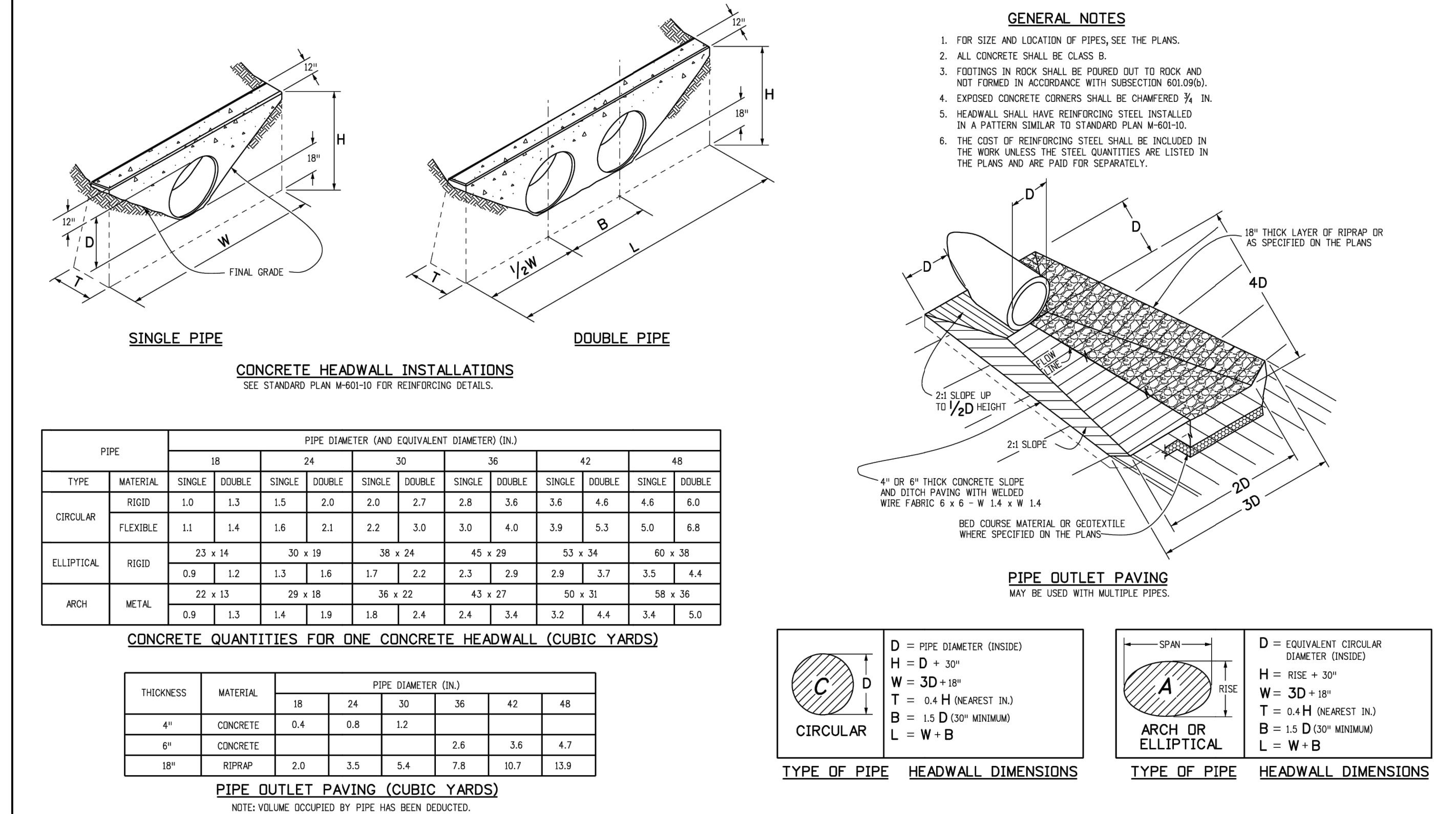
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Computer File Information, Sheet Revisions, Colorado Department of Transportation, HEADWALL FOR PIPES, M-601-10, Standard Sheet No. 1 of 1



Computer File Information, Sheet Revisions, Colorado Department of Transportation, WINGWALLS FOR PIPE OR BOX CULVERTS, M-601-20, Standard Sheet No. 1 of 2



Computer File Information, Sheet Revisions, Colorado Department of Transportation, HEADWALLS AND PIPE OUTLET PAVING, M-601-12, Standard Sheet No. 1 of 1

Table titled 'c-BARS AND REINFORCING STEEL QUANTITY (EXCLUDE TOE WALL)' with multiple columns for different pipe diameters and c-bar sizes. Includes an example and solution section.

Computer File Information, Sheet Revisions, Colorado Department of Transportation, WINGWALLS FOR PIPE OR BOX CULVERTS, M-601-20, Standard Sheet No. 2 of 2

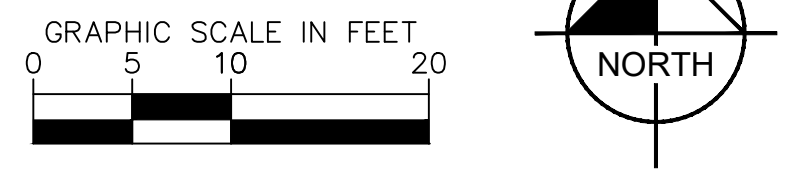
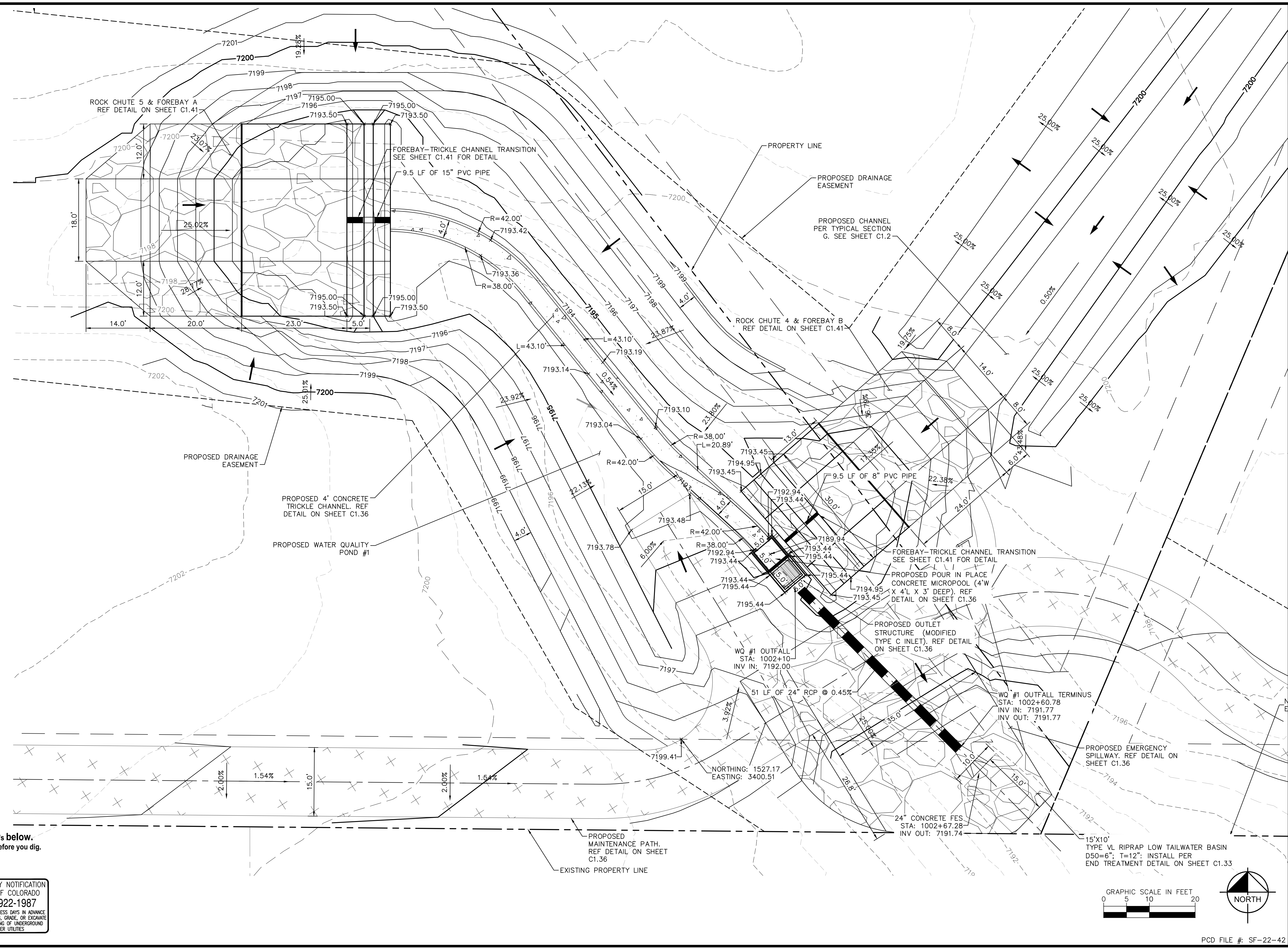
Kimley»Horn logo, EL PASO COUNTY, COLORADO CONSTRUCTION DOCUMENTS HEADWALL & WINGWALL DETAILS, PROJECT NO. 196106001, SHEET C1.34, PCD FILE #: SF-22-42

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FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES



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EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
WATER QUALITY POND #1

PROJECT NO.
196106001

SHEET
C1.35

PCD FILE #: SF-22-42

ORIFICE PLATE NOTES

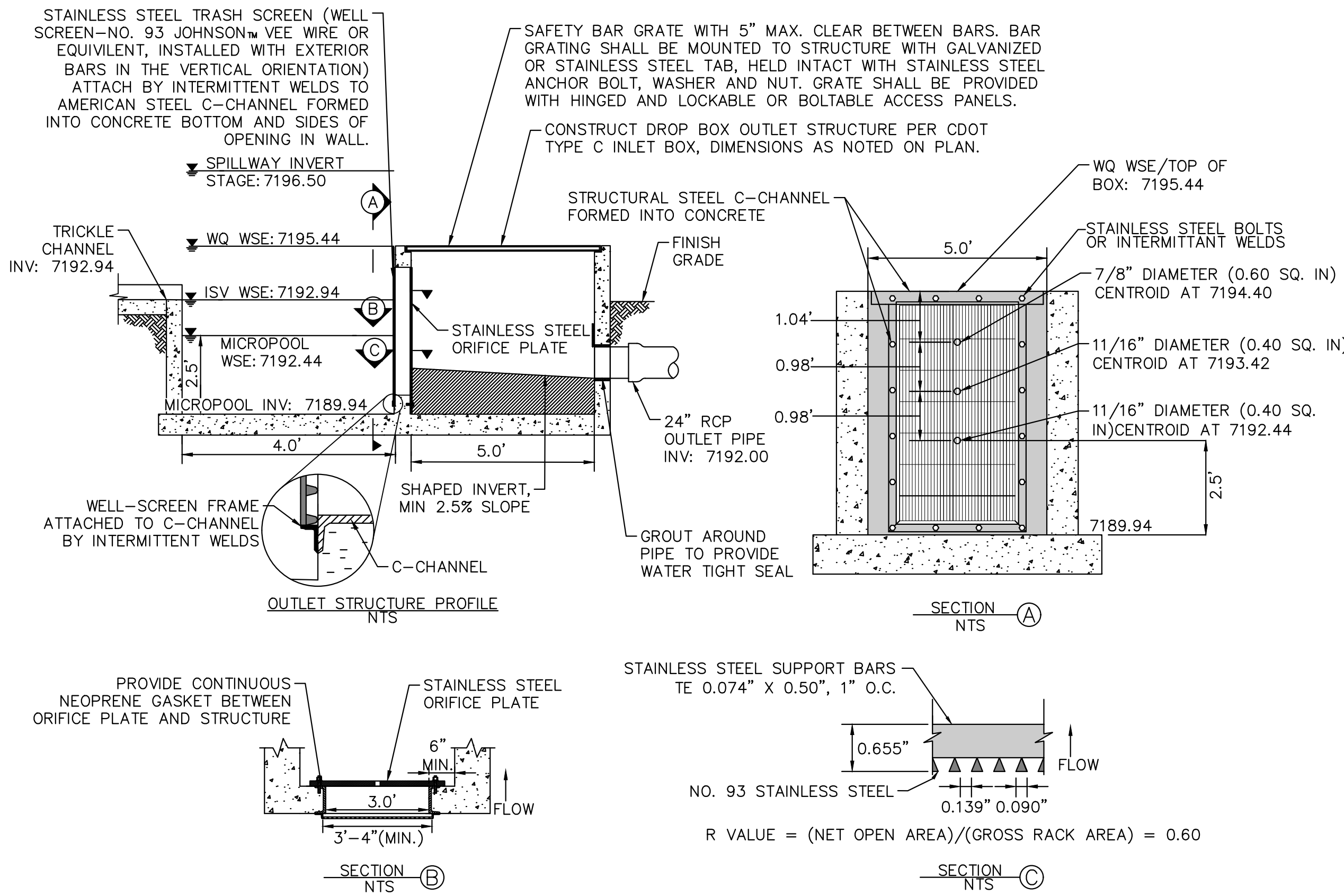
1. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE.
2. BOLT PLATE TO CONCRETE 12" MAX. ON CENTER, WITH A PLATE THICKNESS OF 0.25".

WELL-SCREEN TRASH RACKS

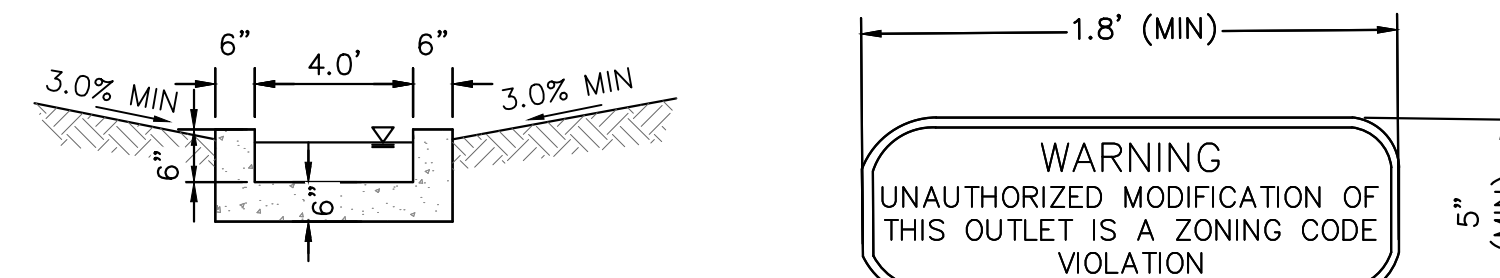
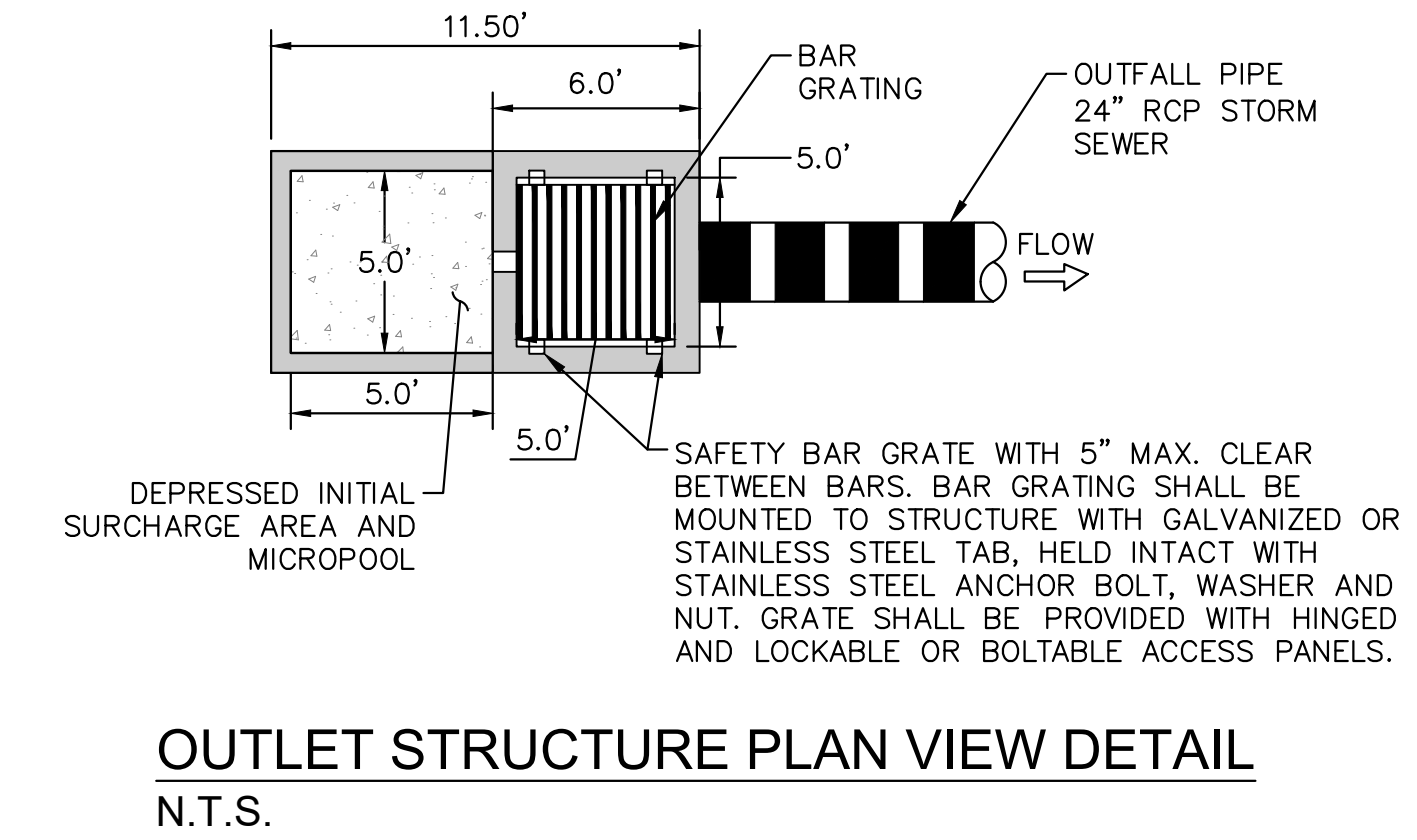
1. WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
2. BAR GATE TRASH RACKS SHALL BE ALUMINUM AND SHALL BE BOLTED USING STAINLESS STEEL HARDWARE.
3. TRASH RACK OPEN AREAS ARE FOR SPECIFIED TRASH RACK MATERIALS. TOTAL TRASH RACK SIZE MAY NEED TO BE ADJUSTED FOR MATERIALS HAVING DIFFERENT OPEN AREA/GROSS AREA RATIO (R VALUE).
4. STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.

OVERFLOW SAFETY GRATES

1. ALL SAFETY GRATES SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR BOLTABLE ACCESS PANELS.
2. SAFETY GRATES SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL GRATES SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
3. SAFETY GRATES SHALL BE DESIGNED SUCH THAT THE DIAGONAL DIMENSION OF EACH OPENING IS SMALLER THAN THE DIAMETER OF THE OUTLET PIPE.
4. STRUCTURAL DESIGN OF SAFETY GRATES SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.



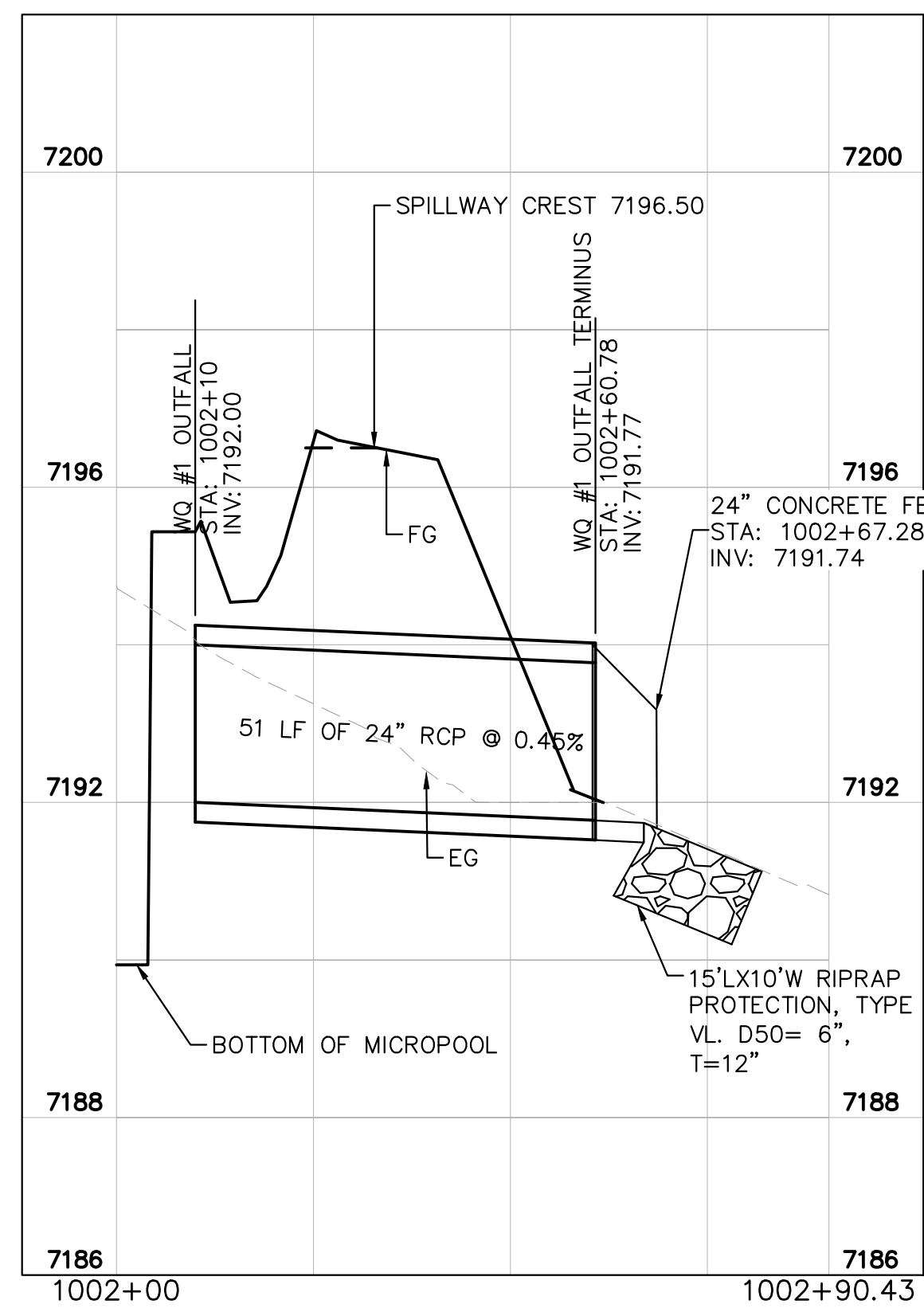
OUTLET STRUCTURE PROFILE DETAIL
N.T.S.



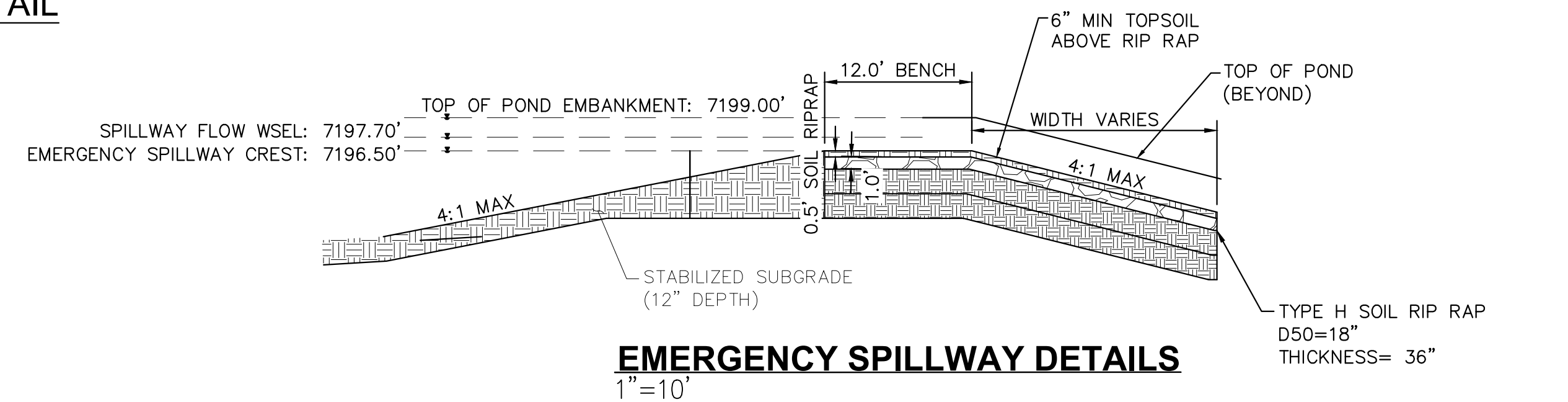
CONCRETE TRICKLE CHANNEL
1"=5"

OUTLET SIGNAGE

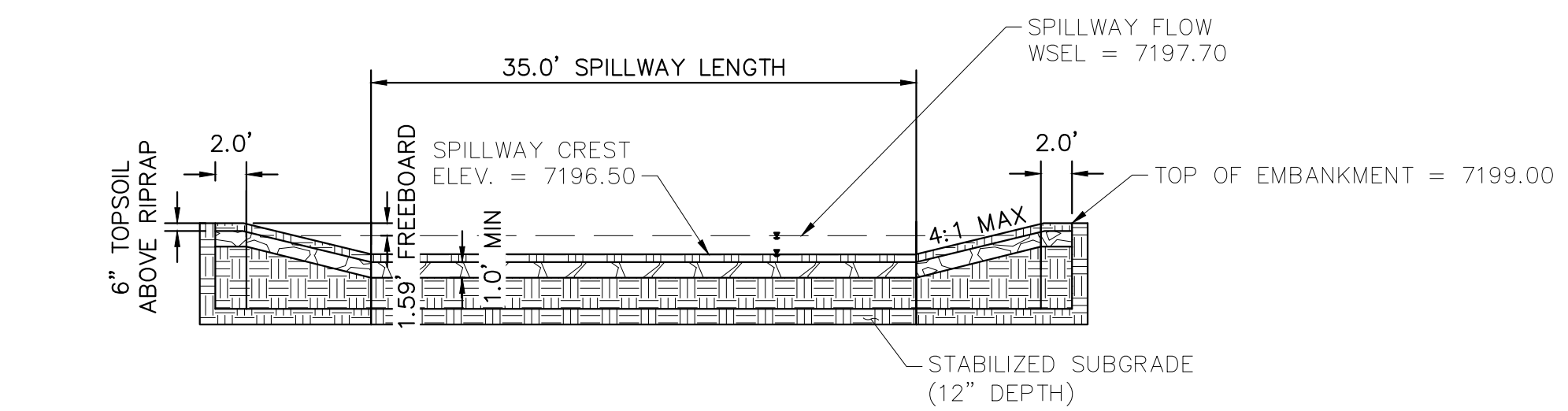
- N.T.S.
- OUTLET SIGNAGE NOTES**
1. SIGN SHALL BE A MINIMUM OF 0.75 SQUARE FEET AND SHALL BE ATTACHED TO THE OUTLET OR POSTED NEARBY.



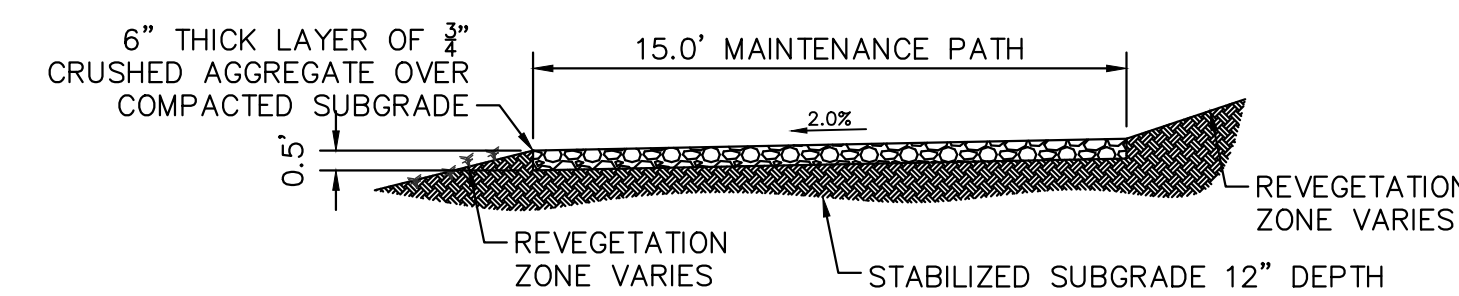
WATER QUALITY #1 OUTFALL
1"=20"



EMERGENCY SPILLWAY DETAILS
1"=10"



EMERGENCY SPILLWAY
1"=10"



MAINTENANCE ROAD
1"=5"

- MAINTENANCE PATH NOTES**
1. MAINTENANCE PATH SHALL INCLUDE SUBGRADE PREPARATION, GRAVEL BASE, AND COMPACTION.

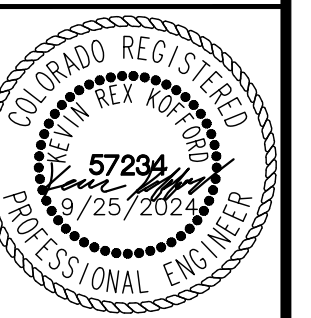


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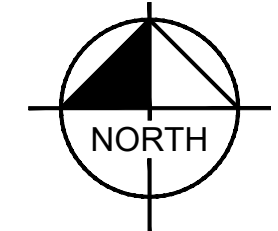
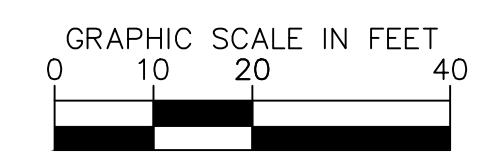
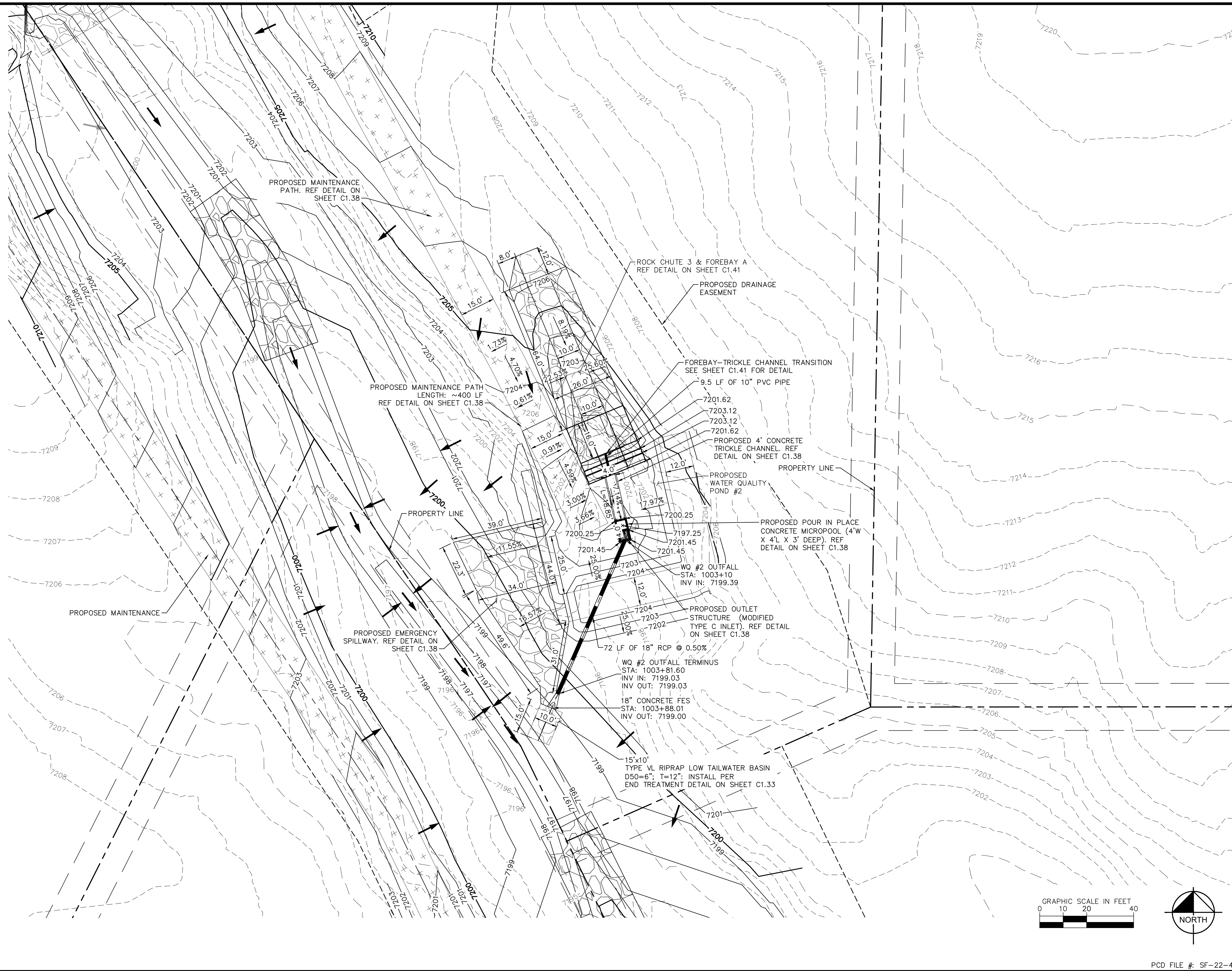
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WATER QUALITY POND #1 DETAILS



PROJECT NO.
196106001
SHEET

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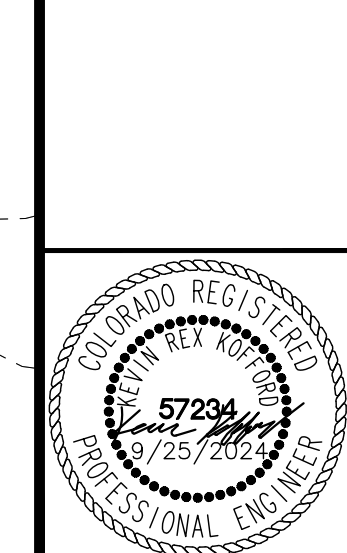
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WATER QUALITY POND #2



PROJECT NO.
196106001

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C1.37

ORIFICE PLATE NOTES

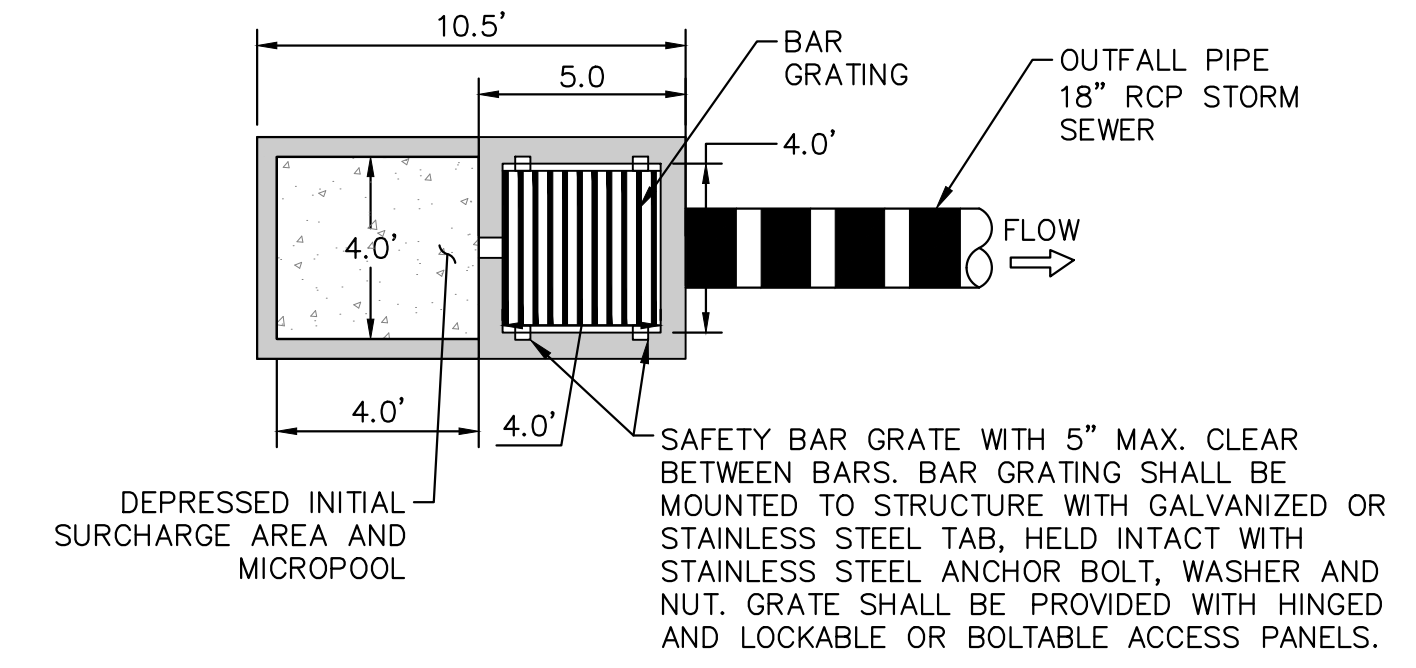
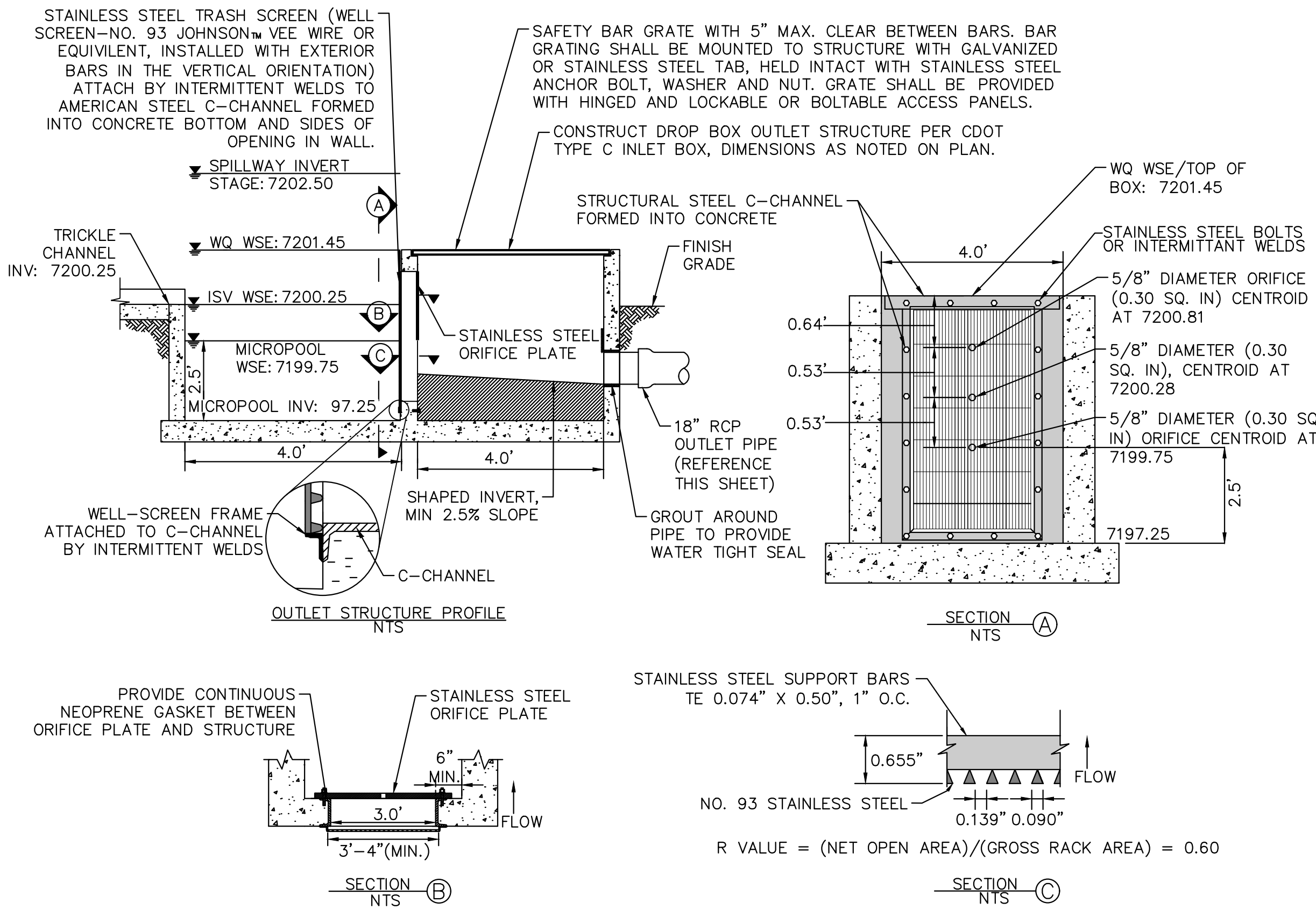
1. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE.
2. BOLT PLATE TO CONCRETE 12" MAX. ON CENTER, WITH A PLATE THICKNESS OF 0.25".

WELL AND WQCV TRASH RACKS

1. WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
2. BAR GATE TRASH RACKS SHALL BE ALUMINUM AND SHALL BE BOLTED USING STAINLESS STEEL HARDWARE.
3. TRASH RACK OPEN AREAS ARE FOR SPECIFIED TRASH RACK MATERIALS. TOTAL TRASH RACK SIZE MAY NEED TO BE ADJUSTED FOR MATERIALS HAVING DIFFERENT OPEN AREA/GROSS AREA RATIO (R VALUE).
4. STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.

OVERFLOW SAFETY GRATES

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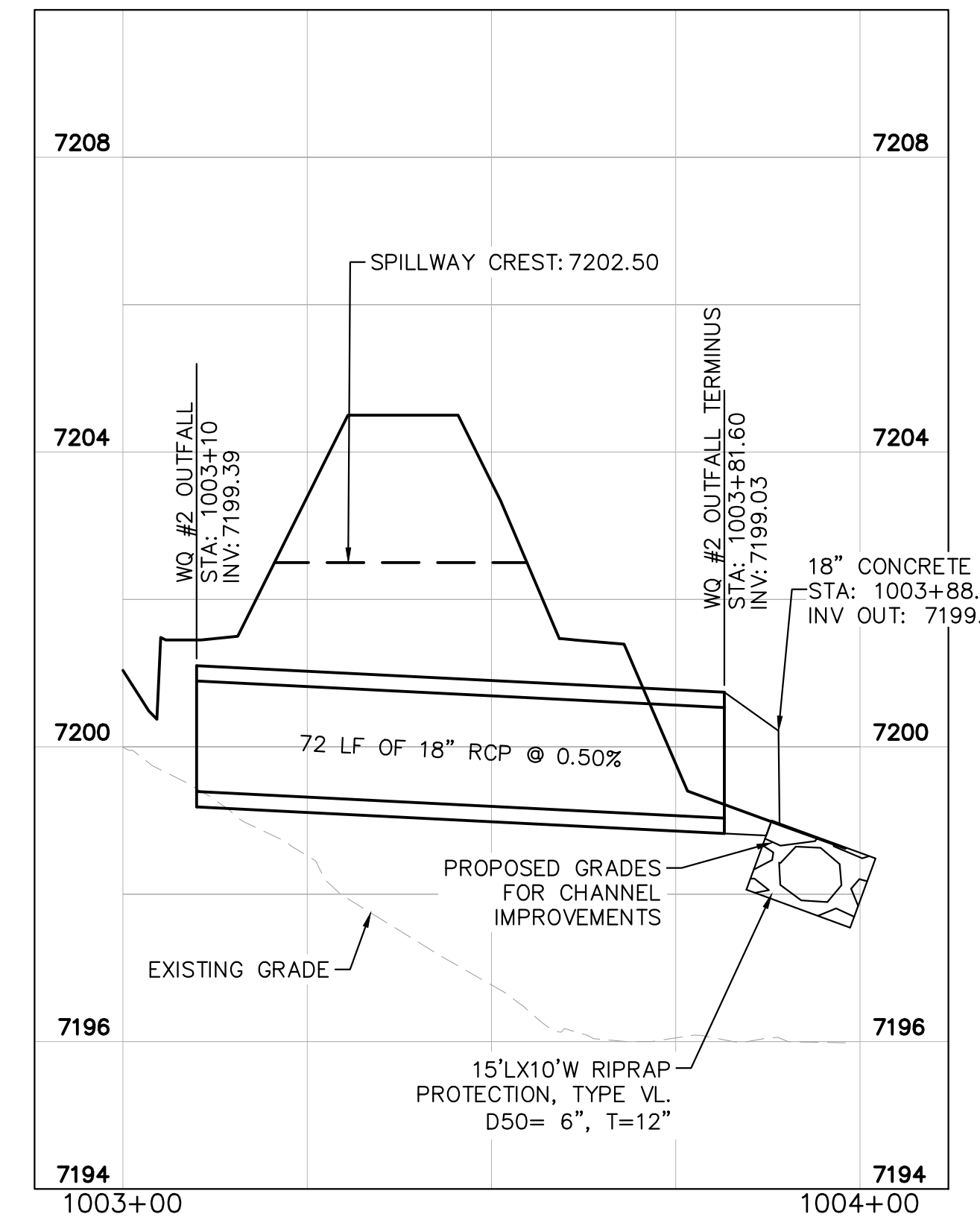


OUTLET STRUCTURE PLAN VIEW DETAIL
N.T.S.



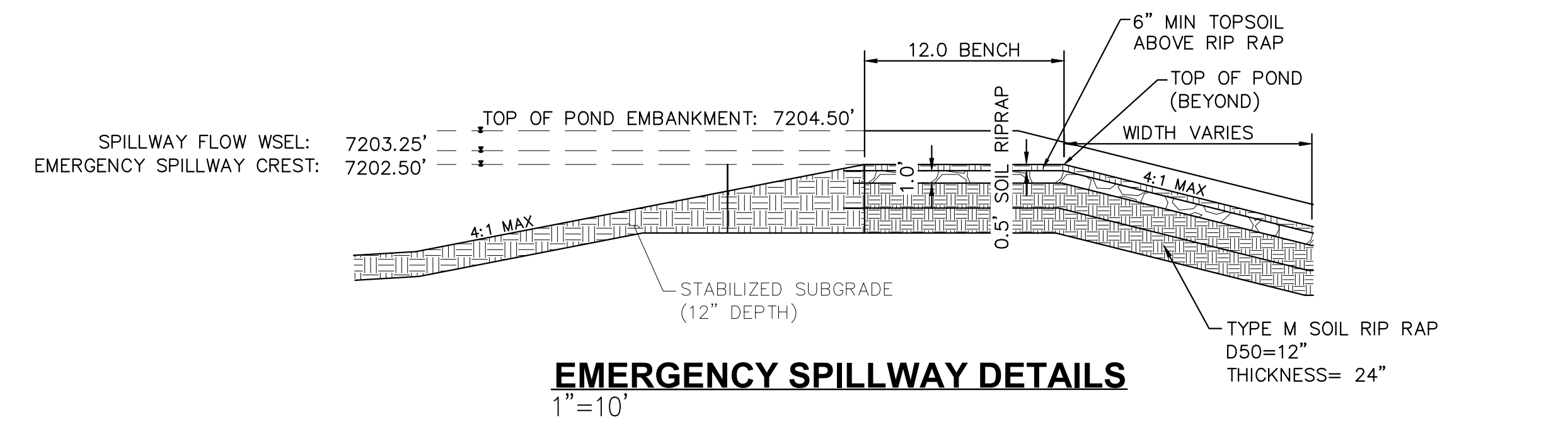
CONCRETE TRICKLE CHANNEL
1"=5'
* CONTRACTOR TO INSTALL CONTROL JOINTS @ 10' SPACING

OUTLET SIGNAGE
N.T.S.
OUTLET SIGNAGE NOTES
1. SIGN SHALL BE A MINIMUM OF 0.75 SQUARE FEET AND SHALL BE ATTACHED TO THE OUTLET OR POSTED NEARBY.

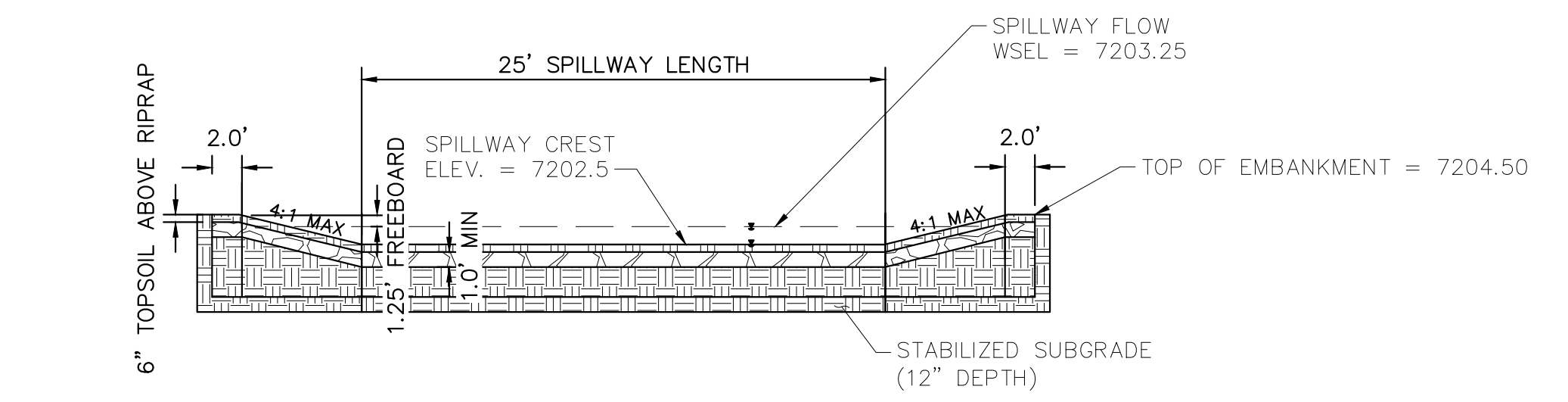


WATER QUALITY #2 OUTFALL
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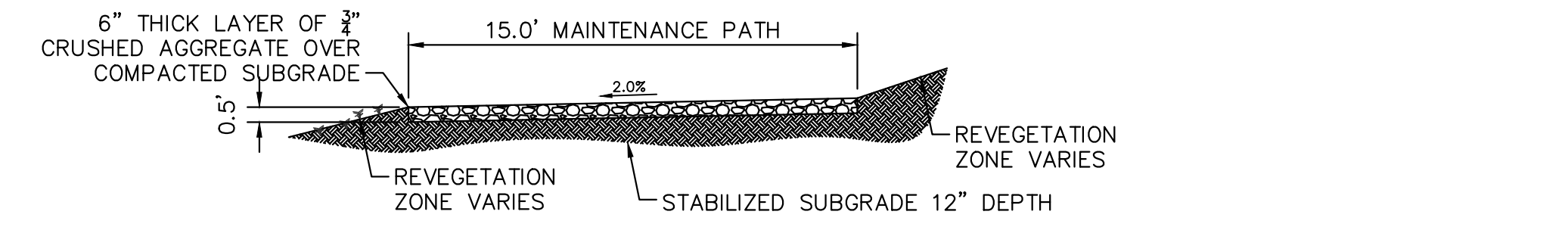
OUTLET STRUCTURE PROFILE DETAIL
N.T.S.



EMERGENCY SPILLWAY DETAILS
1"=10'



EMERGENCY SPILLWAY
1"=10'



MAINTENANCE ROAD
1"=5'

- MAINTENANCE PATH NOTES**
1. MAINTENANCE PATH SHALL INCLUDE SUBGRADE PREPARATION, GRAVEL BASE, AND COMPACTION.



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EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
WATER QUALITY POND #2 DETAILS



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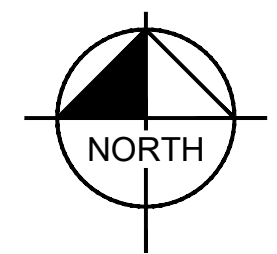
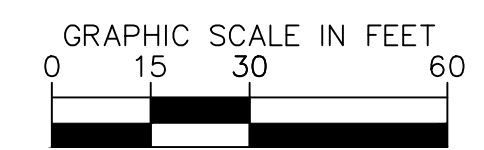
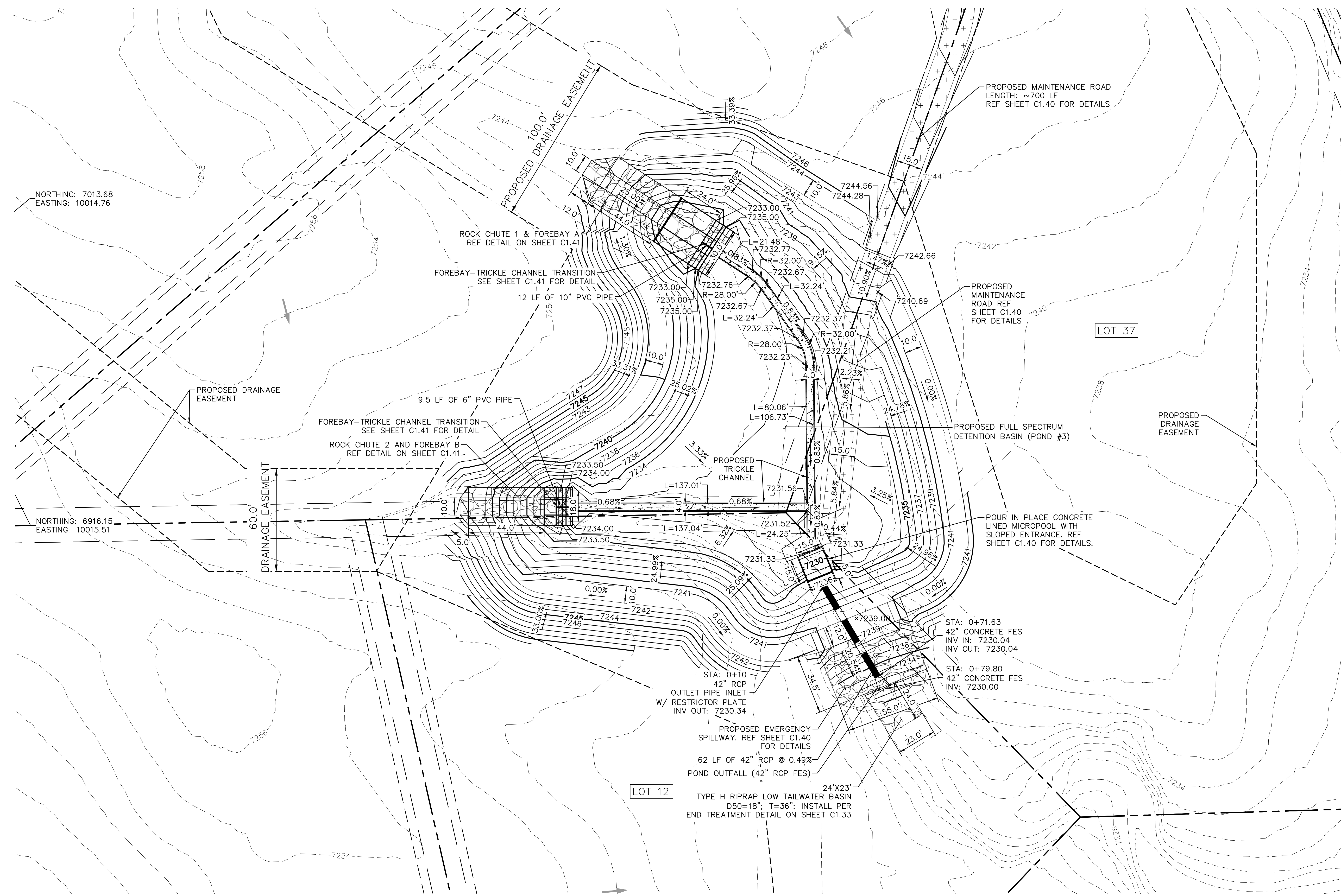
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CALL UTILITY NOTIFICATION
CENTER OF COLORADO
1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES



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Kimley»Horn
2024 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 900
Colorado Springs, Colorado 80903 (719) 453-0180

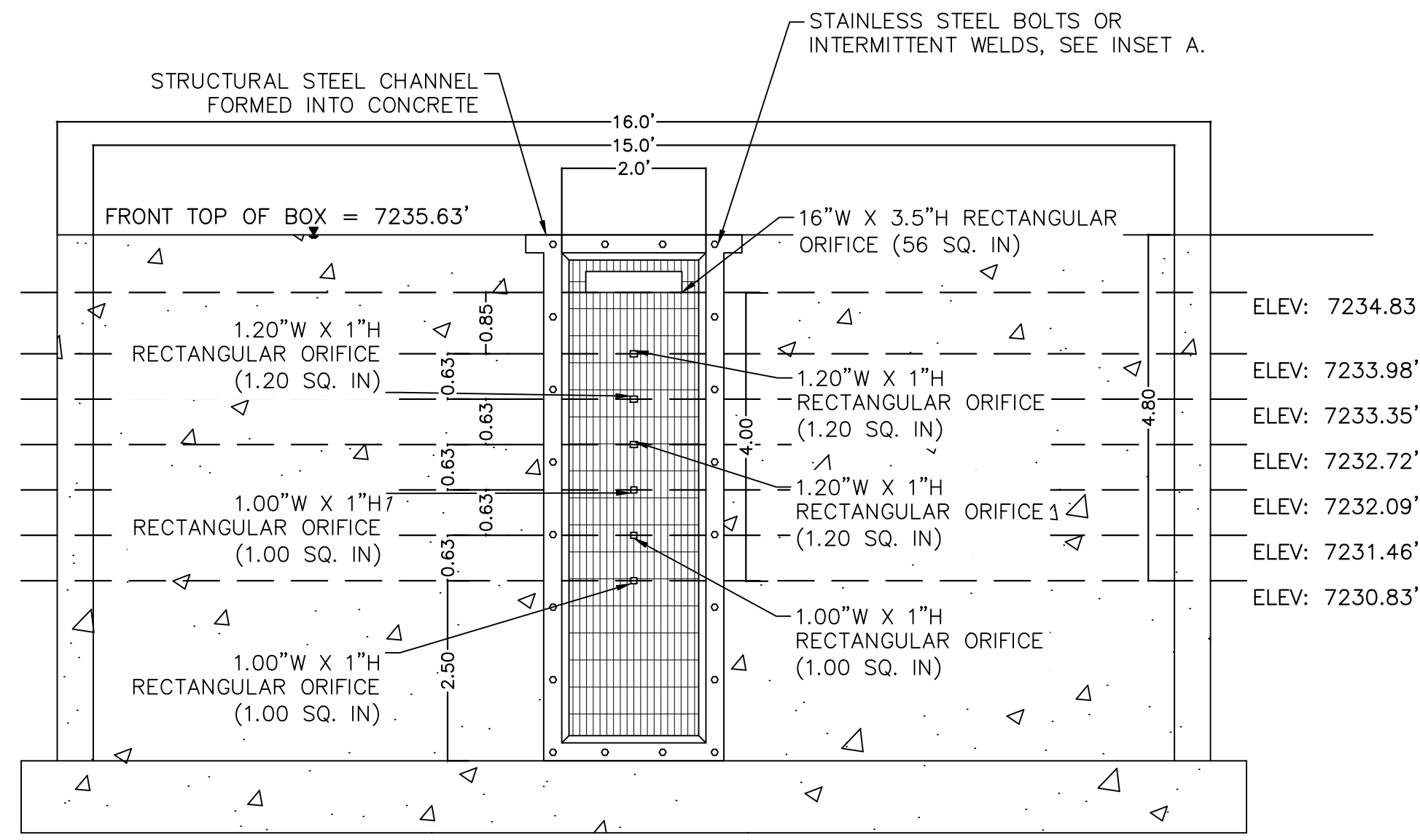
DESIGNED BY: MJK
DRAWN BY: MJK
CHECKED BY: KRK
DATE: 9/17/2024

EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
POND 3 PLAN



PROJECT NO.
196106001

SHEET
C1.39



ORIFICE PLATE AND TRASH RACK DETAIL
1"=2'

ORIFICE PLATE NOTES

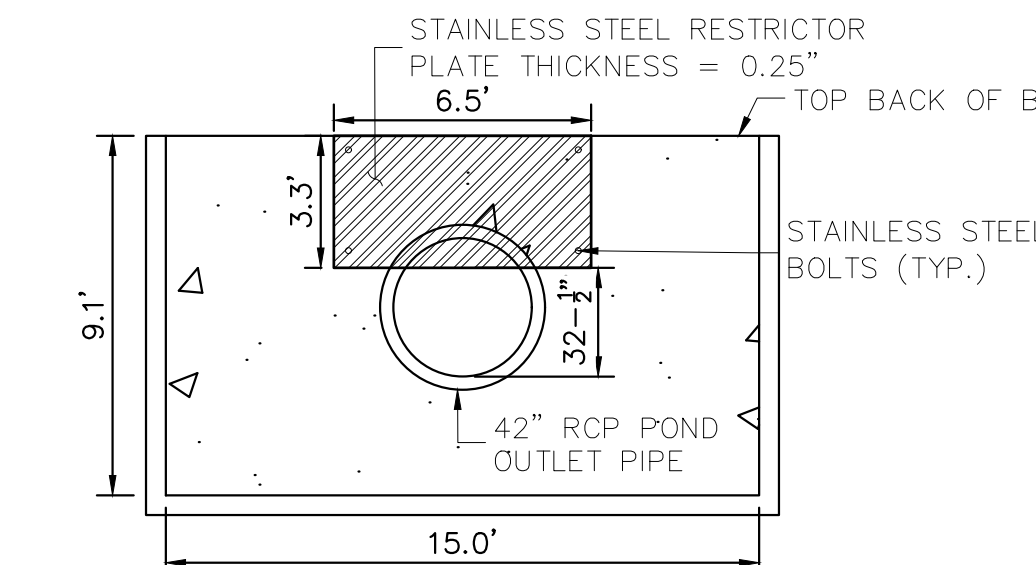
1. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE.
2. BOLT PLATE TO CONCRETE 12" MAX. ON CENTER. WITH A PLATE THICKNESS OF 0.25".

EURV AND WQCV TRASH RACKS

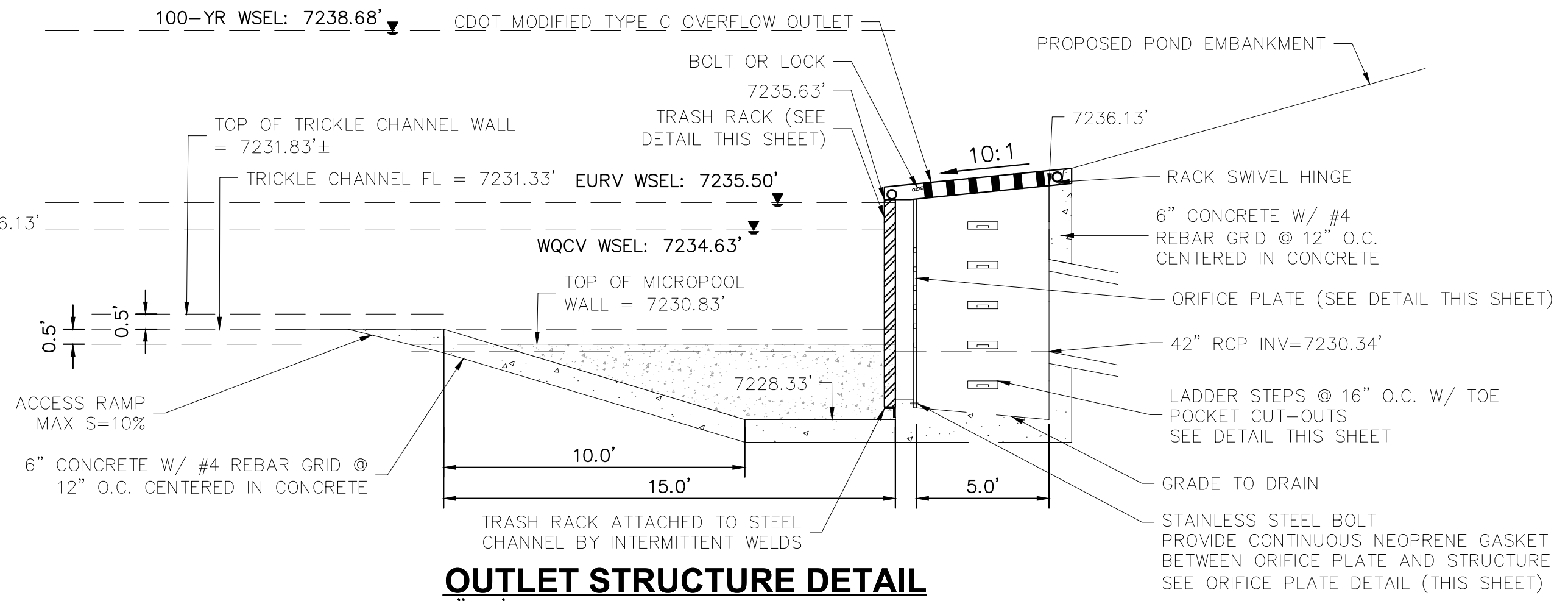
1. WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
2. BAR GATE TRASH RACKS SHALL BE ALUMINUM AND SHALL BE BOLTED USING STAINLESS STEEL HARDWARE.
3. TRASH RACK OPEN AREAS ARE FOR SPECIFIED TRASH RACK MATERIALS. TOTAL TRASH RACK SIZE MAY NEED TO BE ADJUSTED FOR MATERIALS HAVING DIFFERENT OPEN AREA/GROSS AREA RATIO (R VALUE).
4. STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.

OVERFLOW SAFETY GRATES

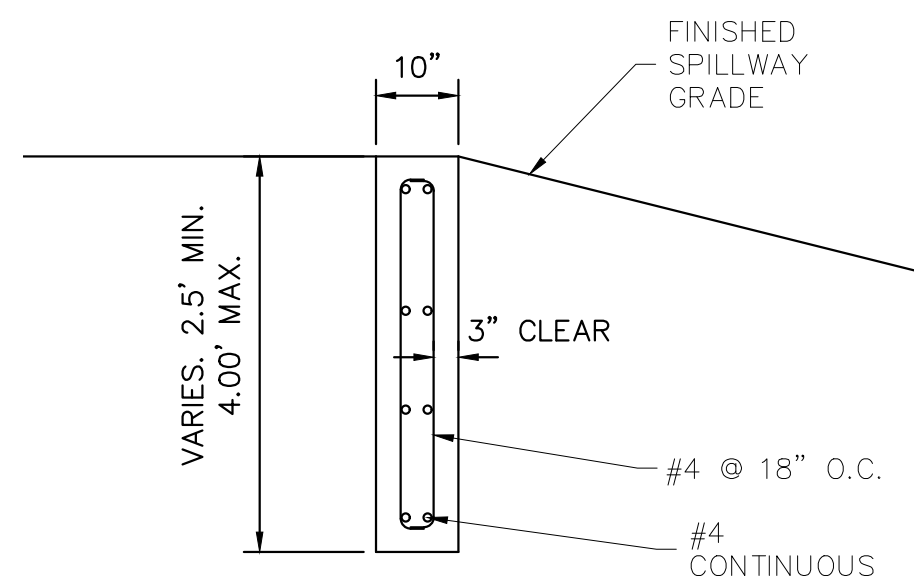
1. ALL SAFETY GRATES SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR BOLTABLE ACCESS PANELS.
2. SAFETY GRATES SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL GRATES SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
3. SAFETY GRATES SHALL BE DESIGNED SUCH THAT THE DIAGONAL DIMENSION OF EACH OPENING IS SMALLER THAN THE DIAMETER OF THE OUTLET PIPE.
4. STRUCTURAL DESIGN OF SAFETY GRATES SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.



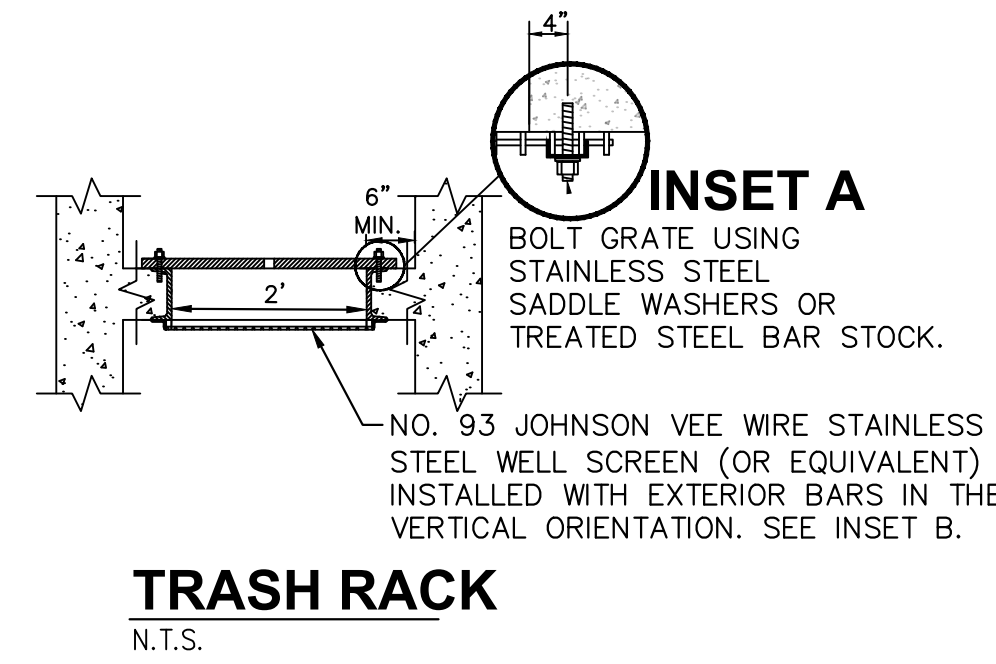
100-YEAR FLOW RESTRICTOR
1"=5'



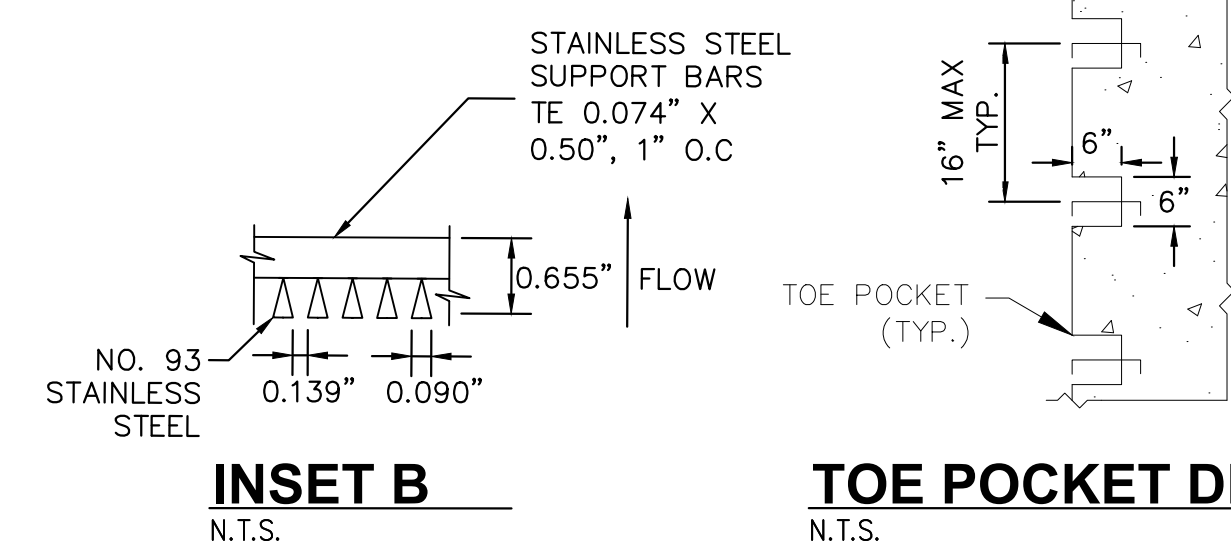
OUTLET STRUCTURE DETAIL
1"=4'



SECTION CREST WALL DETAIL
1"=2'

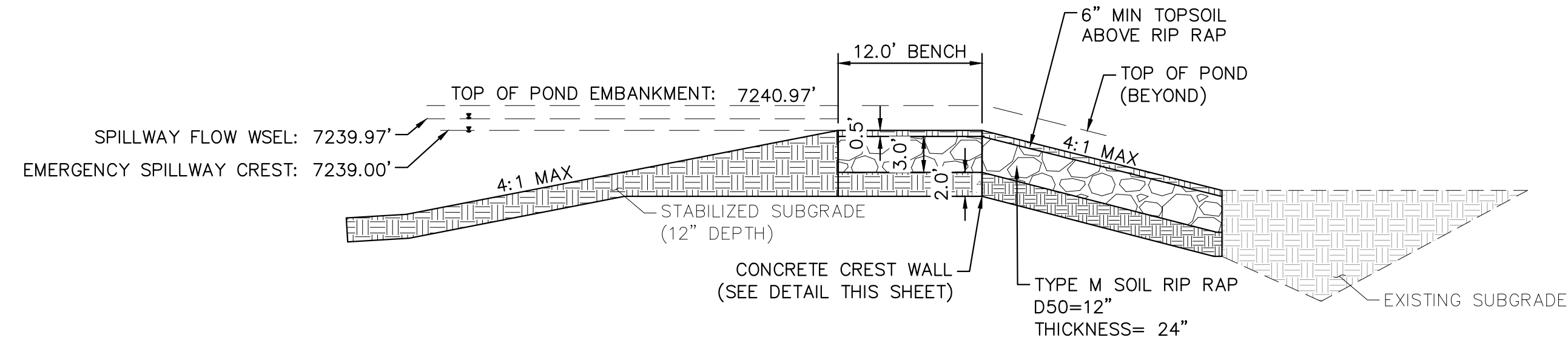


TRASH RACK
N.T.S.

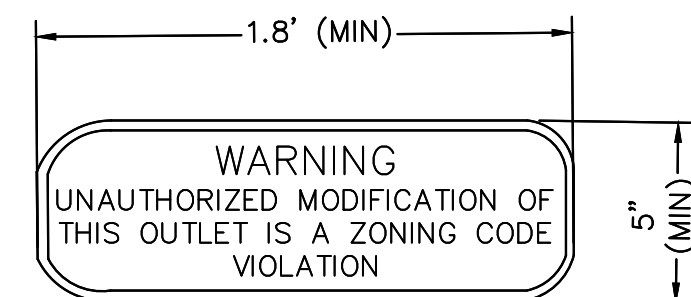


INSET B
N.T.S.

TOE POCKET DETAIL
N.T.S.

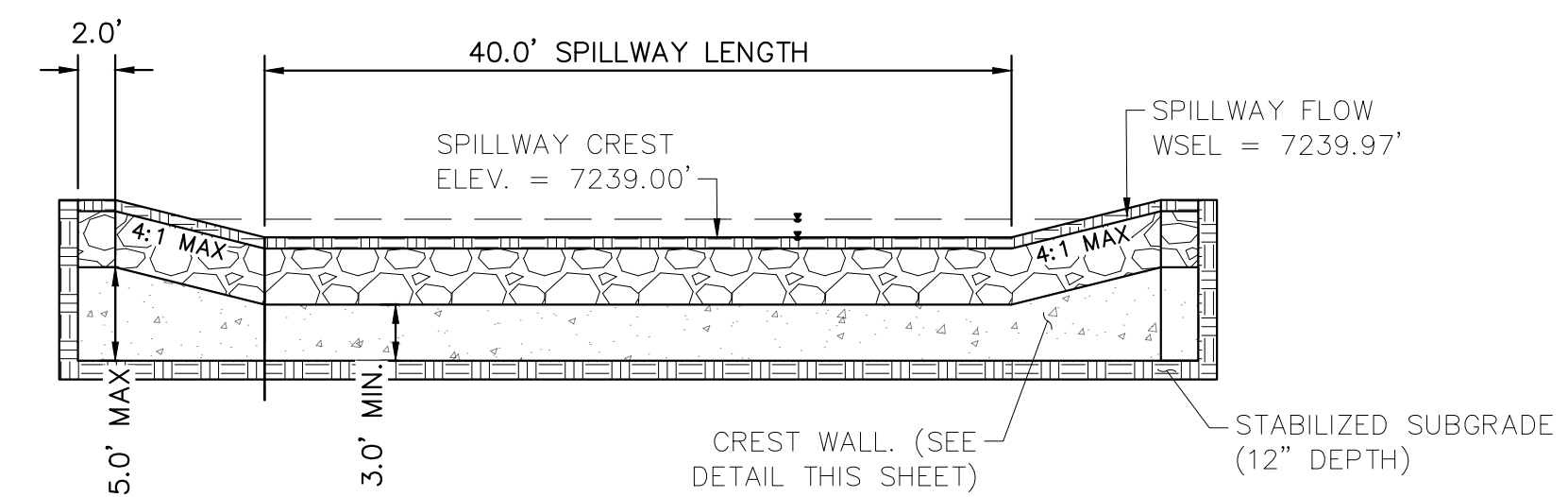


EMERGENCY SPILLWAY DETAILS
1"=10'

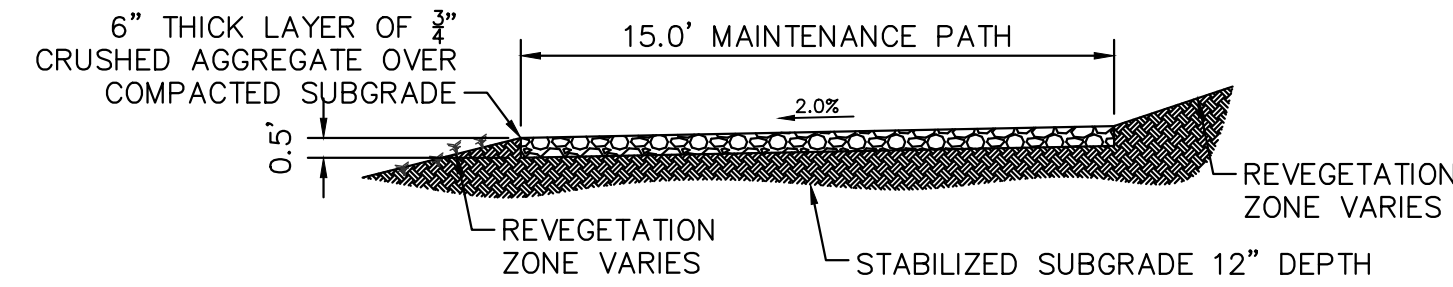


OUTLET SIGNAGE
N.T.S.

- OUTLET SIGNAGE NOTES**
1. SIGN SHALL BE A MINIMUM OF 0.75 SQUARE FEET AND SHALL BE ATTACHED TO THE OUTLET OR POSTED NEARBY.

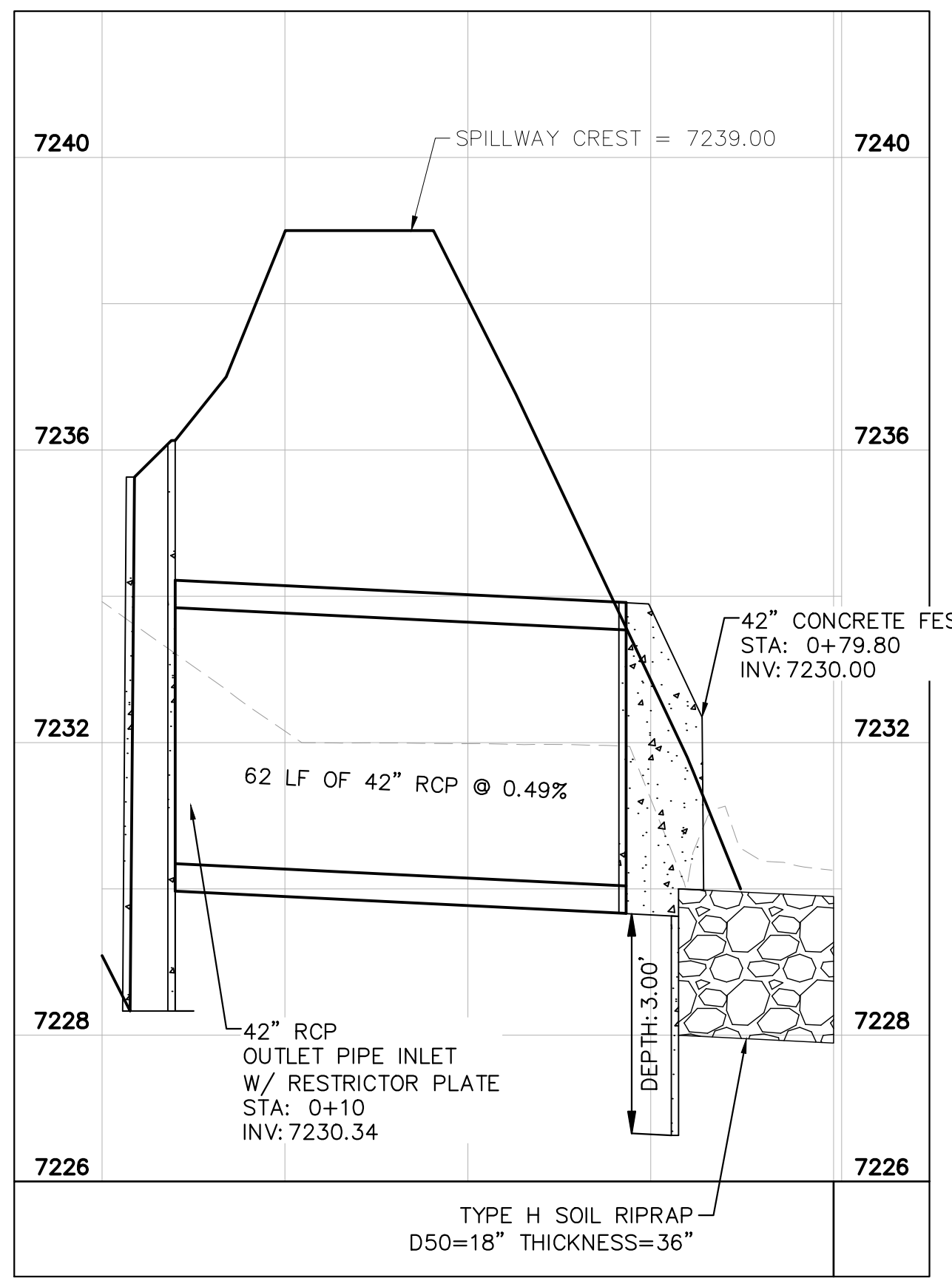


EMERGENCY SPILLWAY
1"=10'

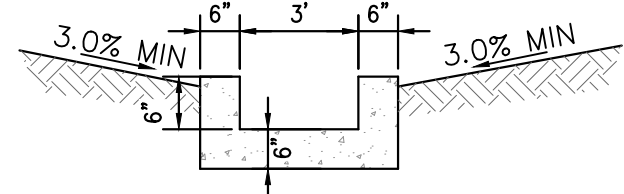


MAINTENANCE ROAD
1"=5'

- MAINTENANCE PATH NOTES**
1. MAINTENANCE PATH SHALL INCLUDE SUBGRADE PREPARATION, GRAVEL BASE, AND COMPACTION.



POND #3 OUTFALL PROFILE
1"=20'



CONCRETE TRICKLE CHANNEL
1"=5'

- * CONTRACTOR TO INSTALL CONTROL JOINTS @ 10' SPACING



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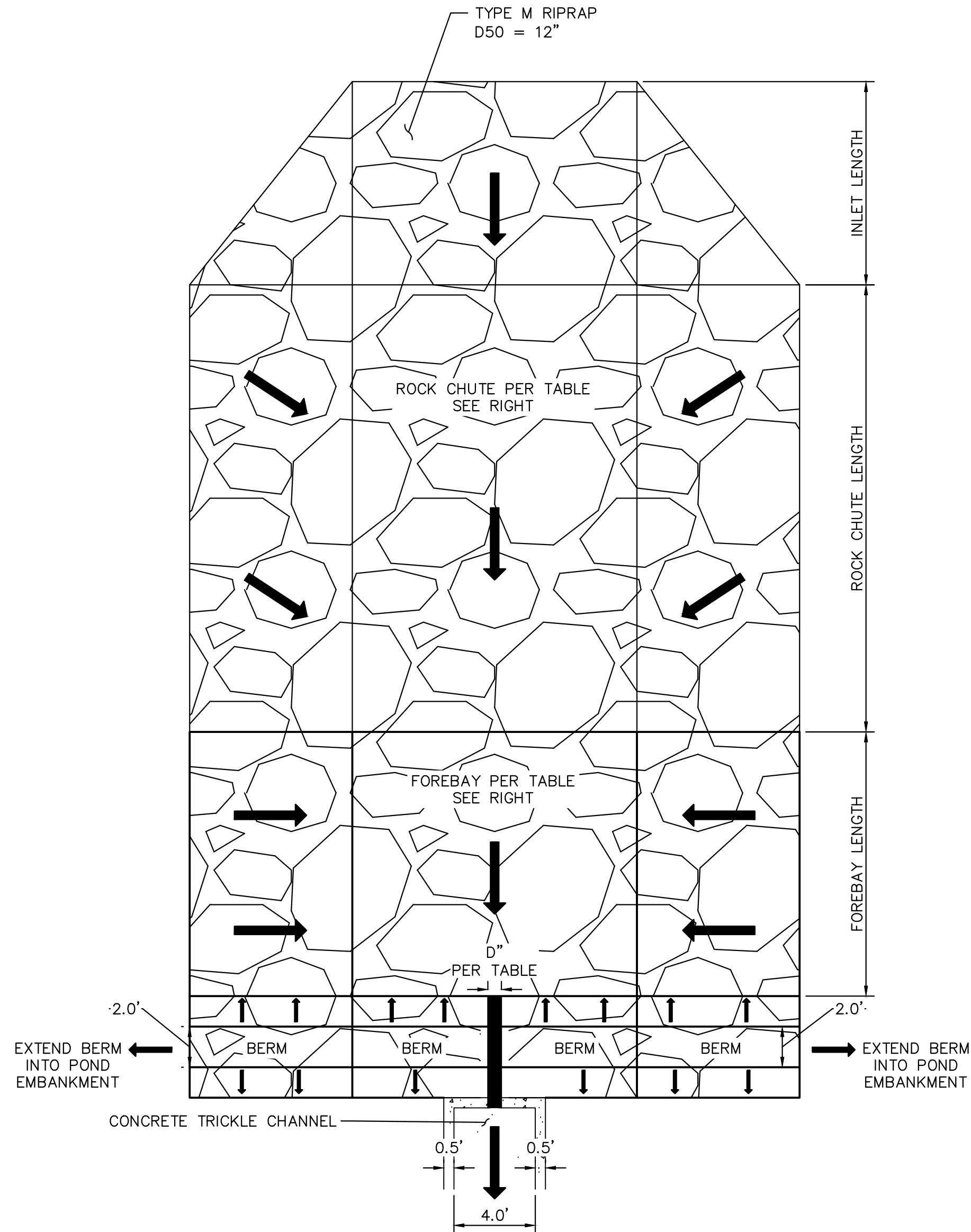
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EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
POND 3 DETAILS

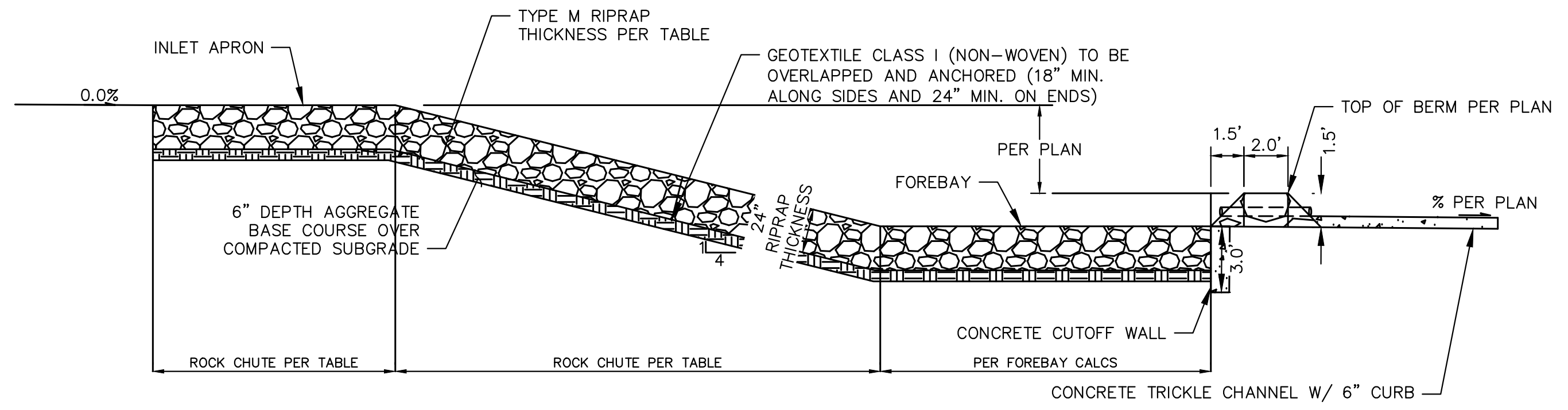


PROJECT NO.
196106001

SHEET
C1.40



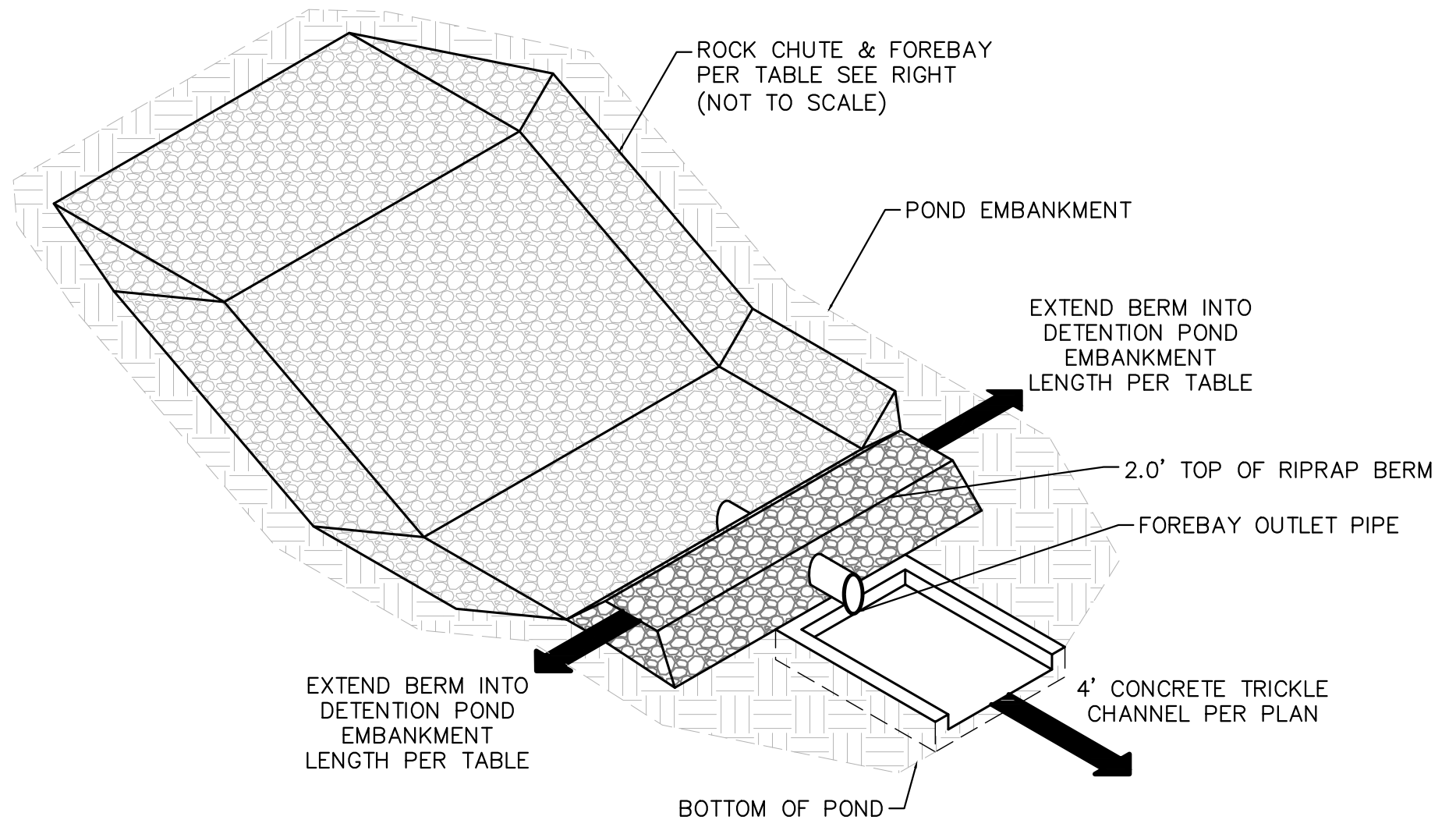
ROCK CHUTE - PLAN DETAIL
1" = 5'



ROCK CHUTE PROFILE - POND TRICKLE CHANNEL APPLICATION
1" = 5'

ROCK CHUTE & FOREBAY DETAILS																			
Rock Chute ID	Pond ID	Forebay ID	Rock Chute Location	Contributing Basins	Q100 Flow (cfs)	Upstream Inlet Apron Length (ft)	Drop (ft) (Inlet Apron to Outlet Apron)	Chute Length (ft)	Downstream Outlet Apron Length (ft)	Chute Width (ft)	D50 (in)	Rock Chute Thickness (in)	Rock Chute Depth* (ft)	Top Chute Width** (ft)	Berm Length (ft)	Total Berm Depth (ft)	Berm Height (ft)	Berm Side Slopes	Pipe Diameter (PVC) (in)
1	Pond 3	A	PB8A	PB8A(60%), OB5	103	12	11	44	24	10	18	36	2.5	30	45	12	2	2.5:1	10
2	Pond 3	B	PB8A	PB8A (40%)	20	5	10	44	7	10	12	24	1.25	20	22	9.5	1.5	2.5:1	6
3	Pond 2	A	PB14	OB8, PB11, PB14 (10%)	96	12	6	64	16	10	12	24	3.0	26	26	9.5	1.5	2.5:1	10
4	Pond 1	B	PB15	PB6, PB7, PB15(55%)	43	6	5	24	13	14	12	24	2.0	30	30	9.5	1.5	2.5:1	8
5	Pond 1	A	PB15	OB2, OB3, OB4, PB3, PB4, PB5, PB15 (10%)	185	14	4	20	23	18	24	48	3.0	42	45	9.5	1.5	2.5:1	15

NOTES:
1. ROCK CHUTE DEPTH ACCOUNTS FOR 0.5' OF FREEBOARD
2. ROCK CHUTE WIDTH ACCOUNTS FOR 0.5' OF FREEBOARD



ROCK CHUTE, FOREBAY, & TRICKLE CHANNEL - ISOMETRIC DETAIL
1" = 5'

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DATE: 9/17/2024

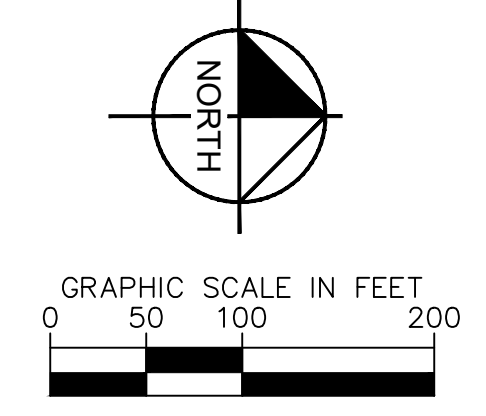
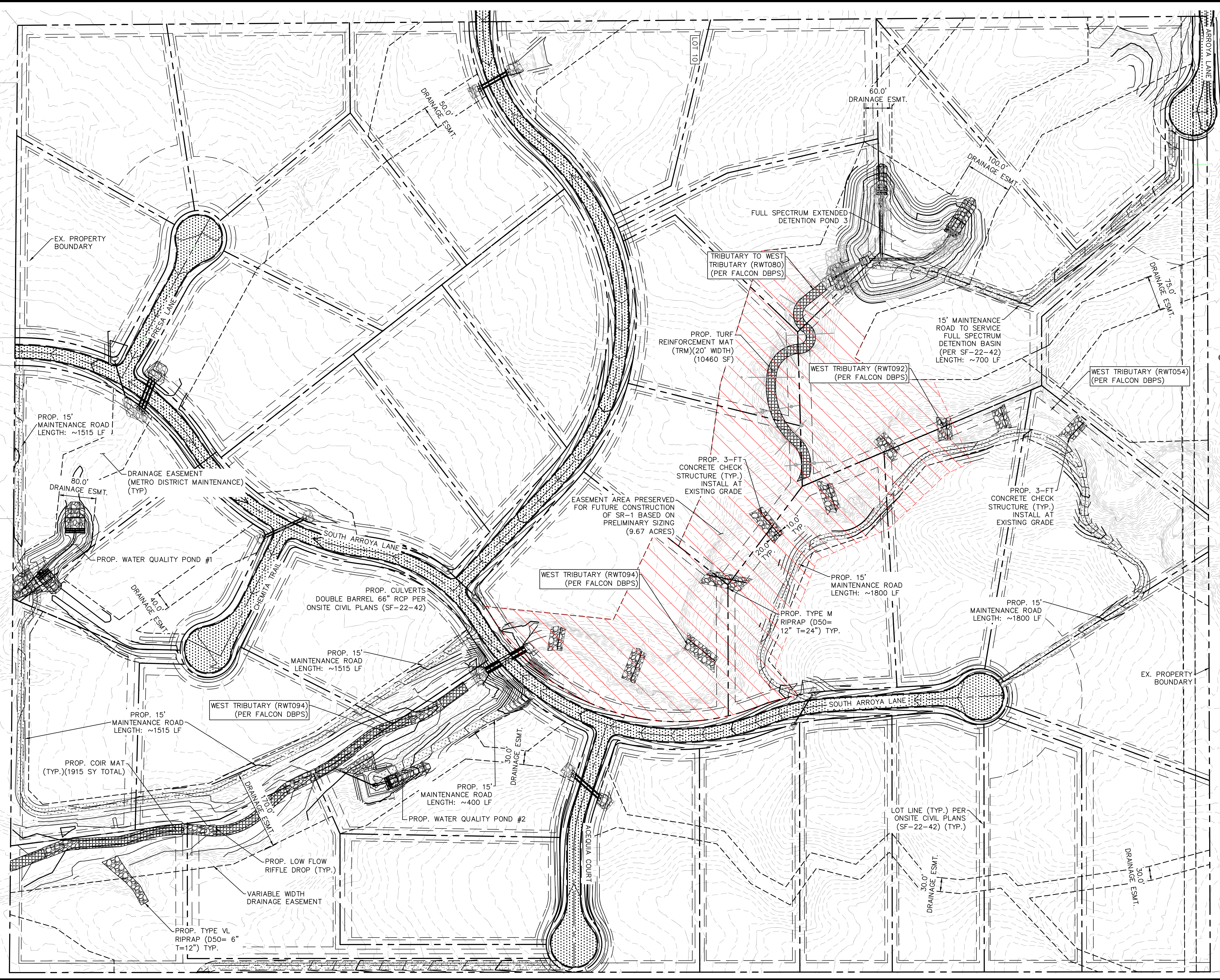
EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
ROCK CHUTE DETAILS



PROJECT NO.
196106001
SHEET

C1.41

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LEGEND

- EXISTING PROPERTY BOUNDARY
- xxx- EXISTING MAJOR CONTOUR
- xxx- EXISTING MINOR CONTOUR
- xxx- PROPOSED MAJOR CONTOUR
- xxx- PROPOSED MINOR CONTOUR
- PROPOSED RIPRAP
- PROPOSED STORM PIPE
- STORM PIPE PER ONSITE CIVIL PLANS
- PROP. DBPS AMENDMENT CONCRETE CHECK STRUCTURES
- PRESERVED AREA FOR FUTURE CONSTRUCTION OF SUB REGIONAL POND (SR1)
- PROP. COIR MAT SEE SHEET C1.55 FOR DETAIL

NOTES:

1. PROPOSED CONCRETE CHECK STRUCTURES SHALL SPAN THE WIDTH OF THE LOW FLOW CHANNEL AND EXTEND 10-FT INTO EACH BANK.

NO.	REVISION	BY	DATE	APPR.

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 CHECKED BY: BAH
 DATE: 5/28/2024

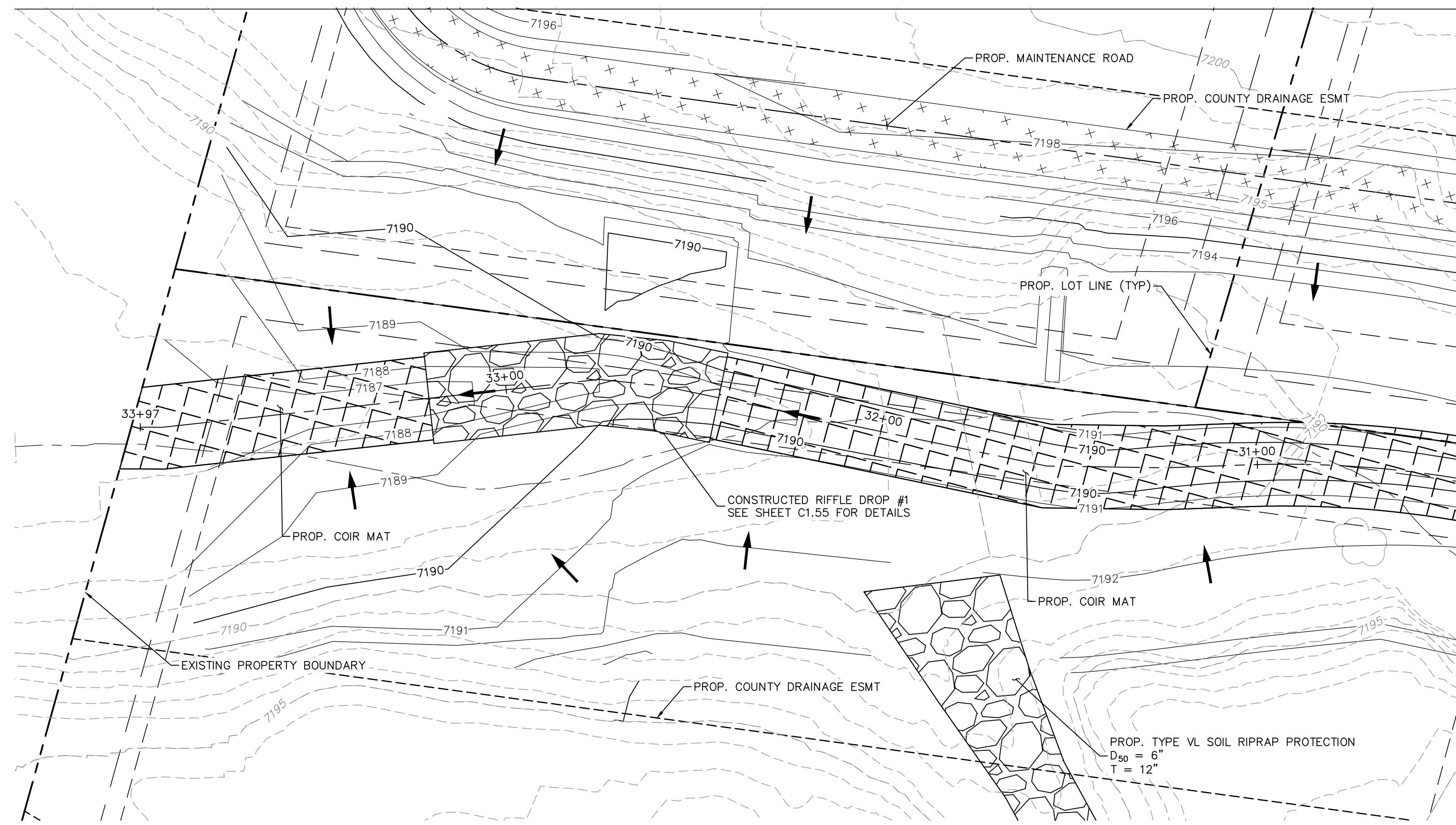
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 CONSTRUCTION DOCUMENTS
OVERALL DRAINAGE IMPROVEMENTS

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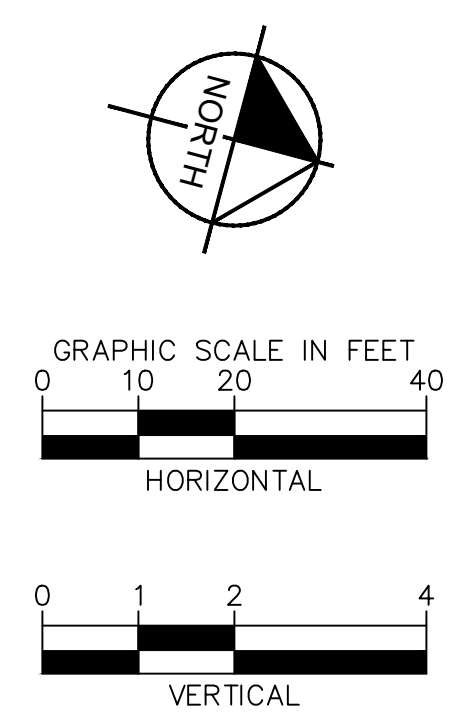
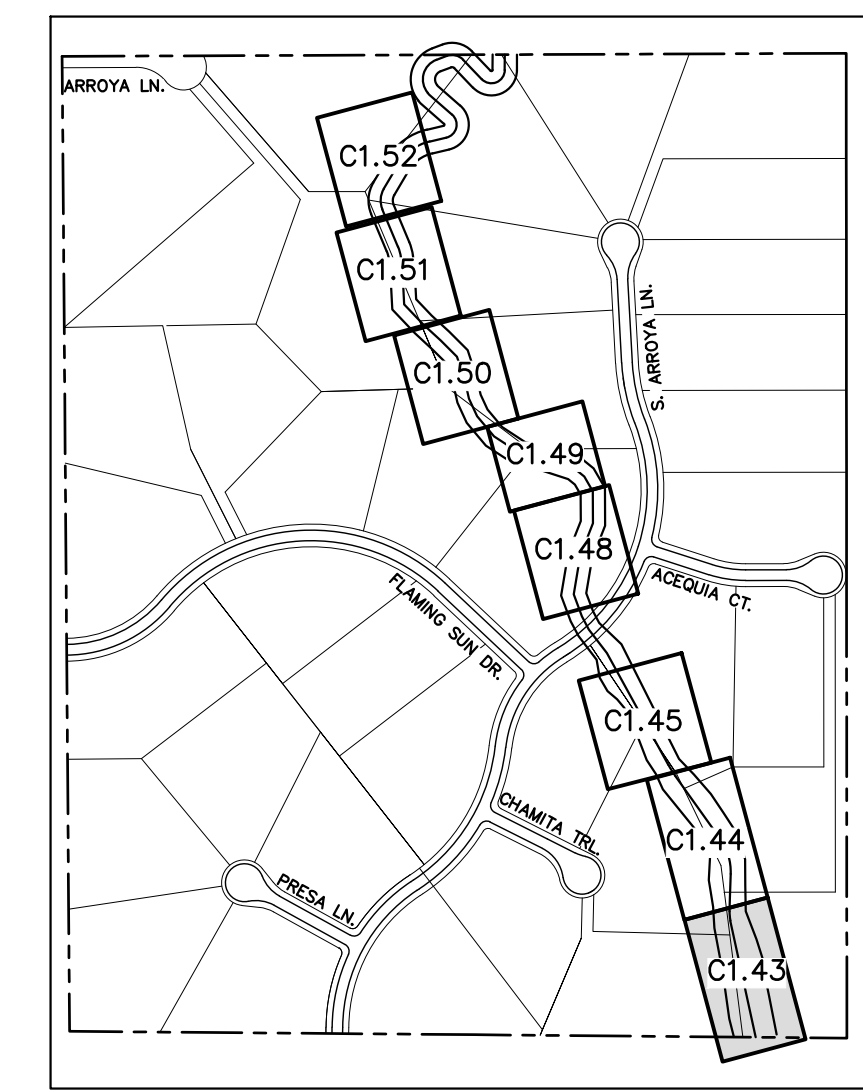
PROJECT NO.
196288000

SHEET
C1.42

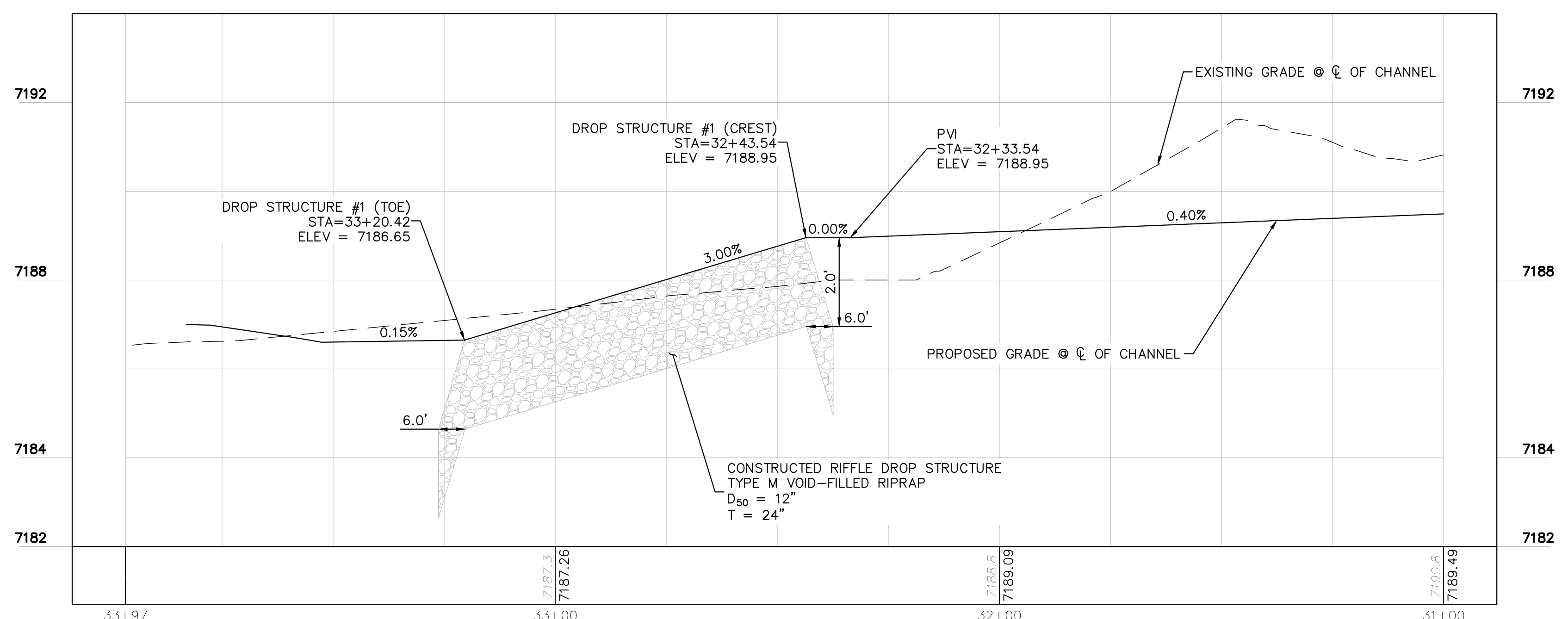
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MATCHLINE STA. 30+50 SEE SHEET C1.44



- NOTES:
1. CHANNEL INVERT SHOWN IN PROFILE VIEW IS THE ELEVATION OF THE LOW FLOW CHANNEL.
 2. SEE SECTION (H) SHEET C1.2 FOR TYPICAL SECTION OF CHANNEL RWT094.



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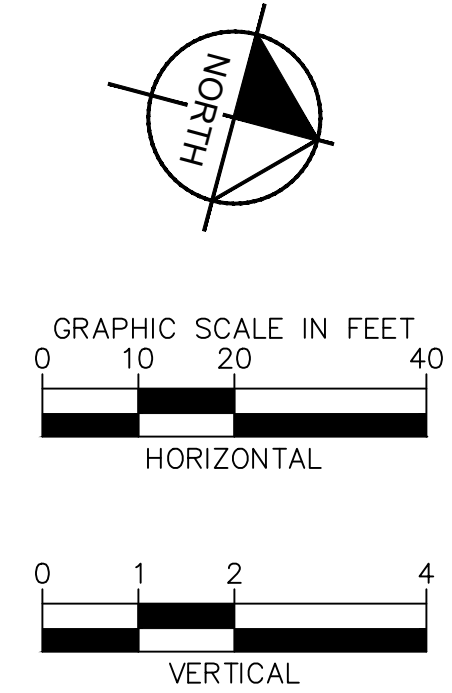
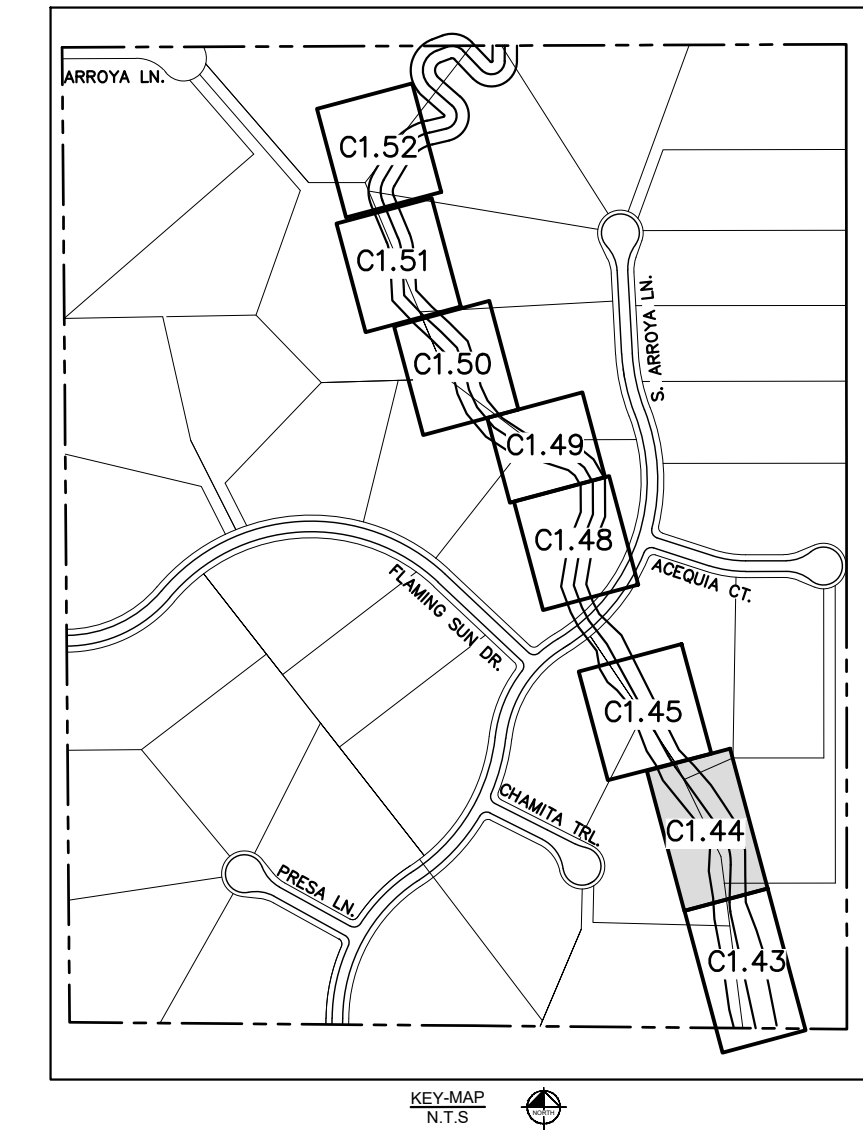
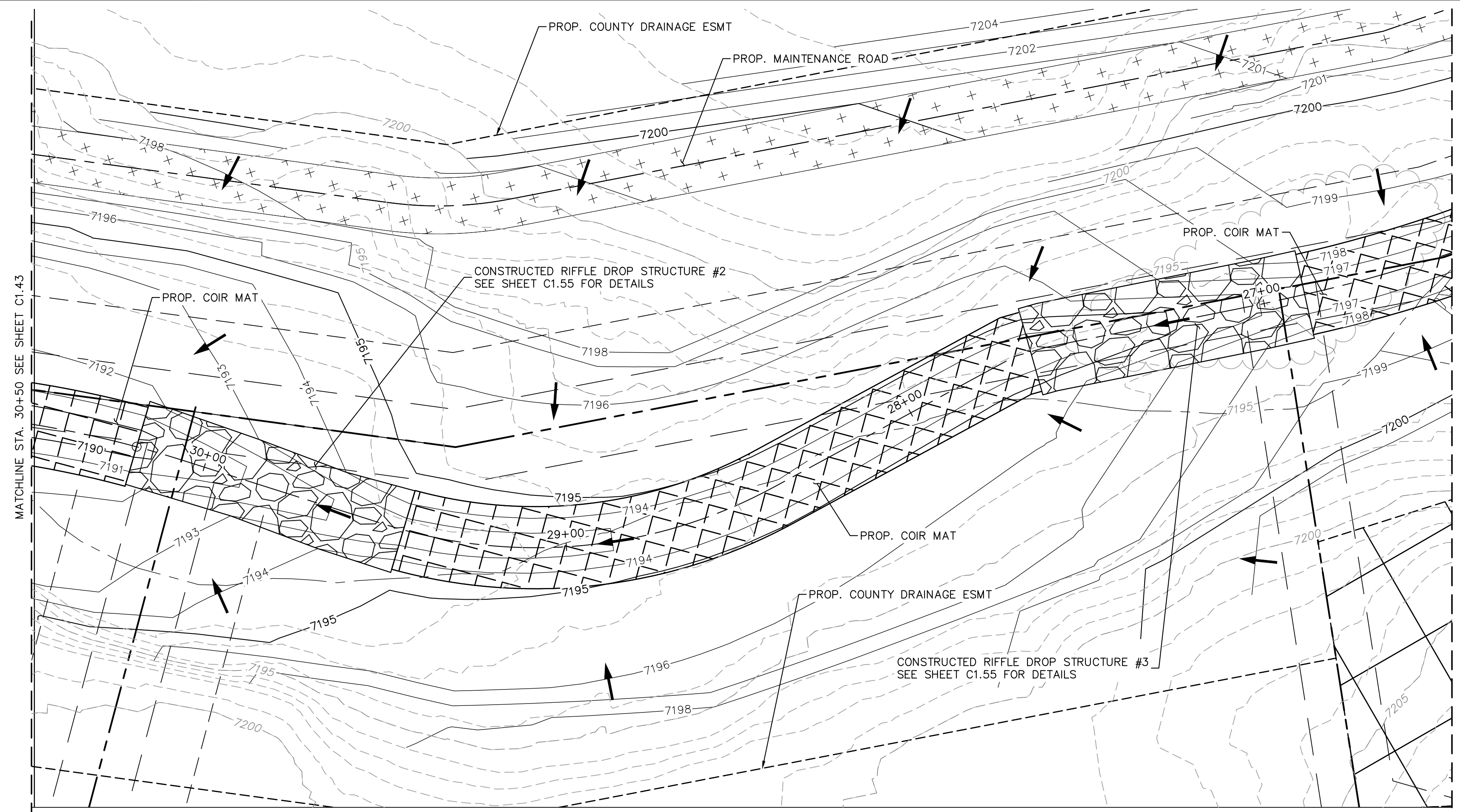
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SOUTH CHANNEL PLAN & PROFILE

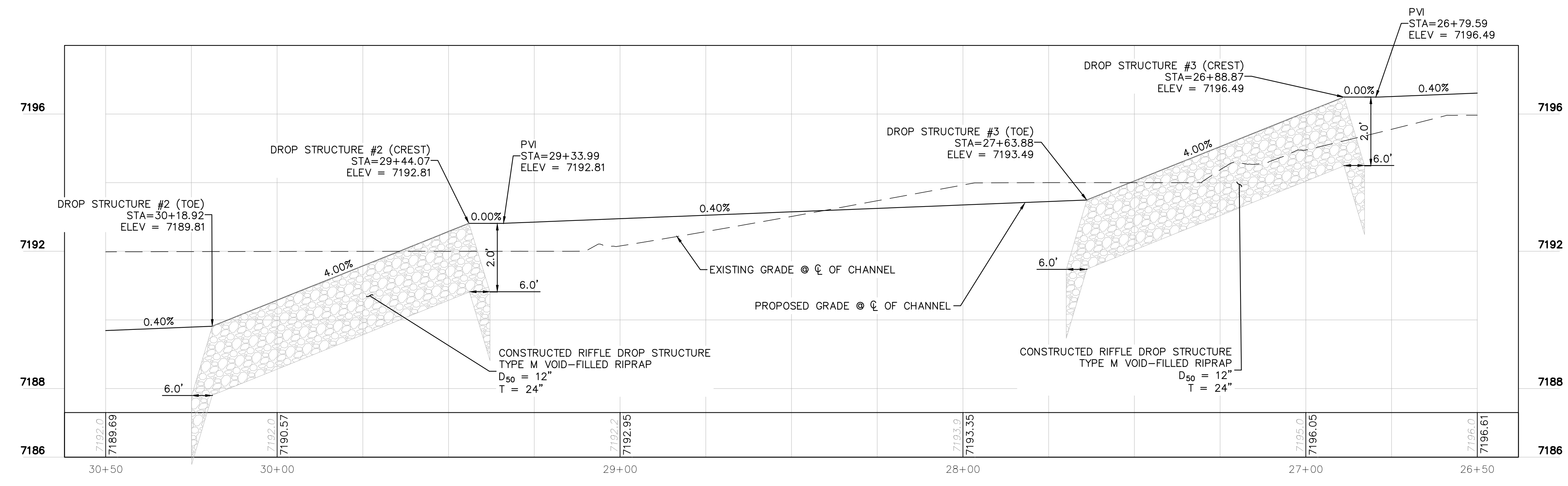
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PROJECT NO.
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 SHEET
C1.43

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- NOTES:
1. CHANNEL INVERT SHOWN IN PROFILE VIEW IS THE ELEVATION OF THE LOW FLOW CHANNEL.
 2. SEE SECTION (H) SHEET C1.2 FOR TYPICAL SECTION OF CHANNEL RWT094.



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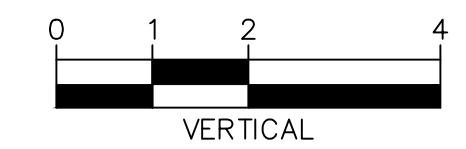
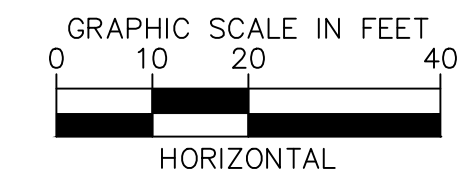
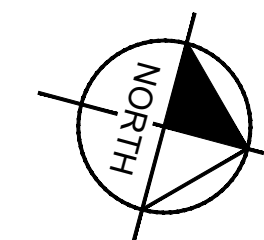
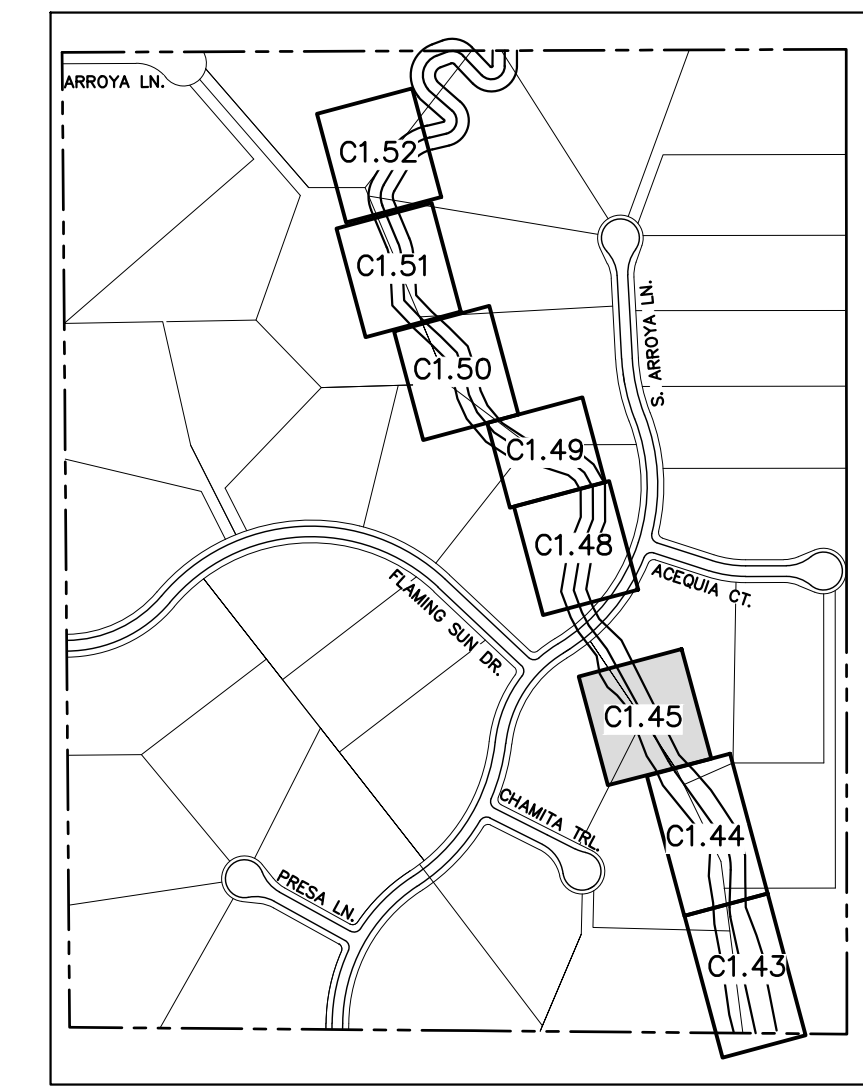
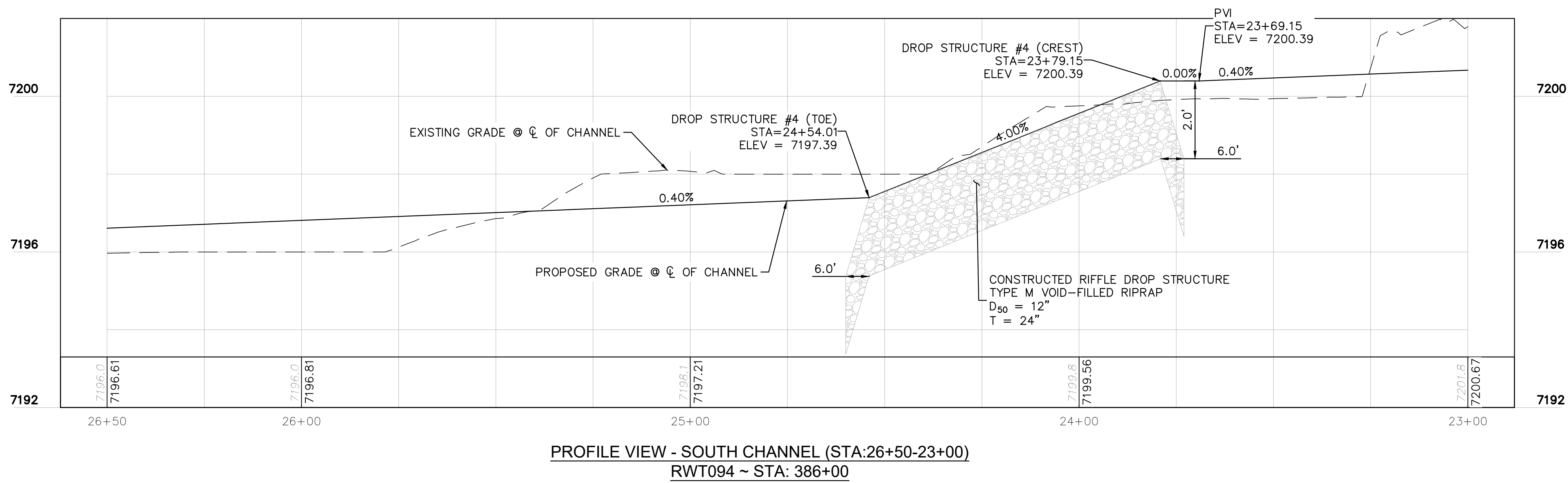
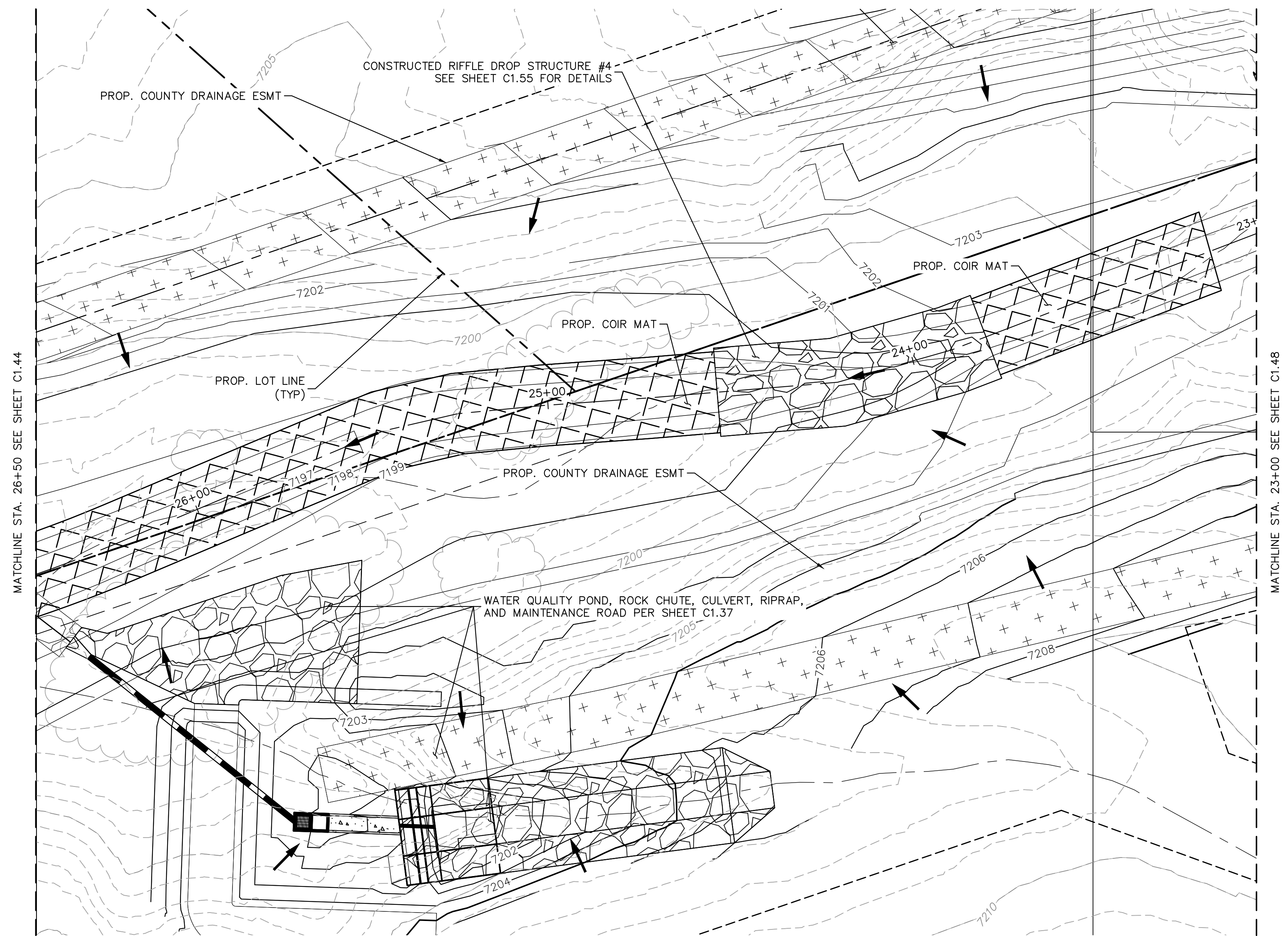
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- NOTES:
1. CHANNEL INVERT SHOWN IN PROFILE VIEW IS THE ELEVATION OF THE LOW FLOW CHANNEL.
 2. SEE SECTION (H) SHEET C1.2 FOR TYPICAL SECTION OF CHANNEL RWT094.

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Kimley»Horn
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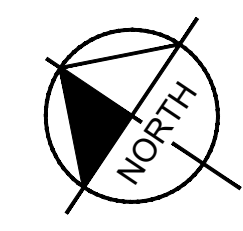
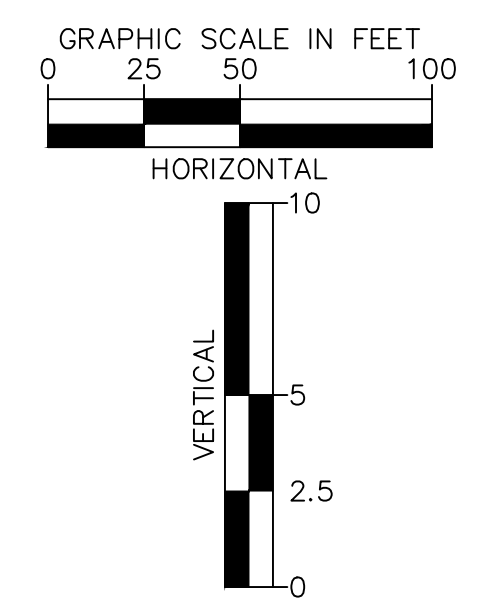
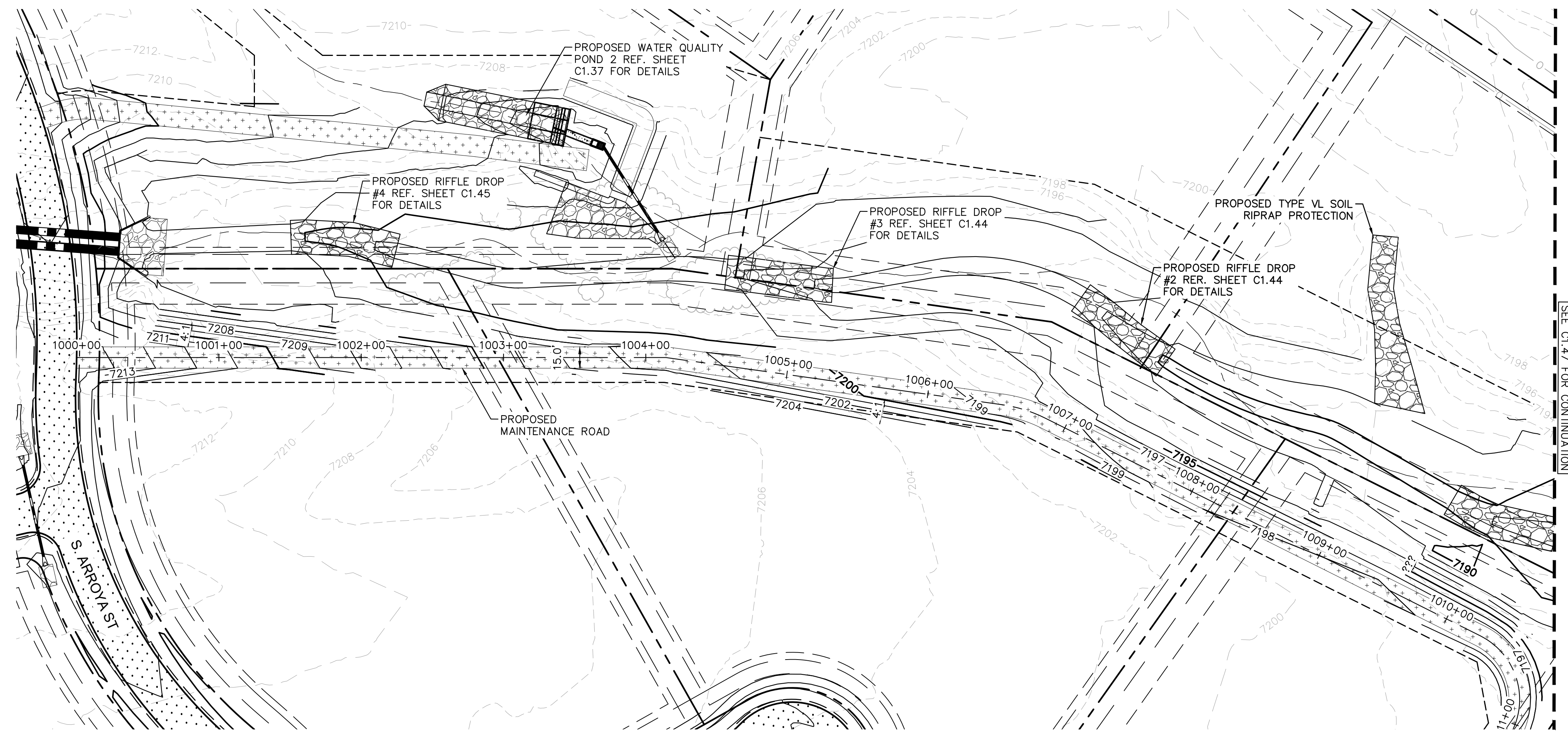
DESIGNED BY: MJK
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 DATE: 04/04/2024

EAGLEVIEW
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SOUTH CHANNEL PLAN & PROFILE

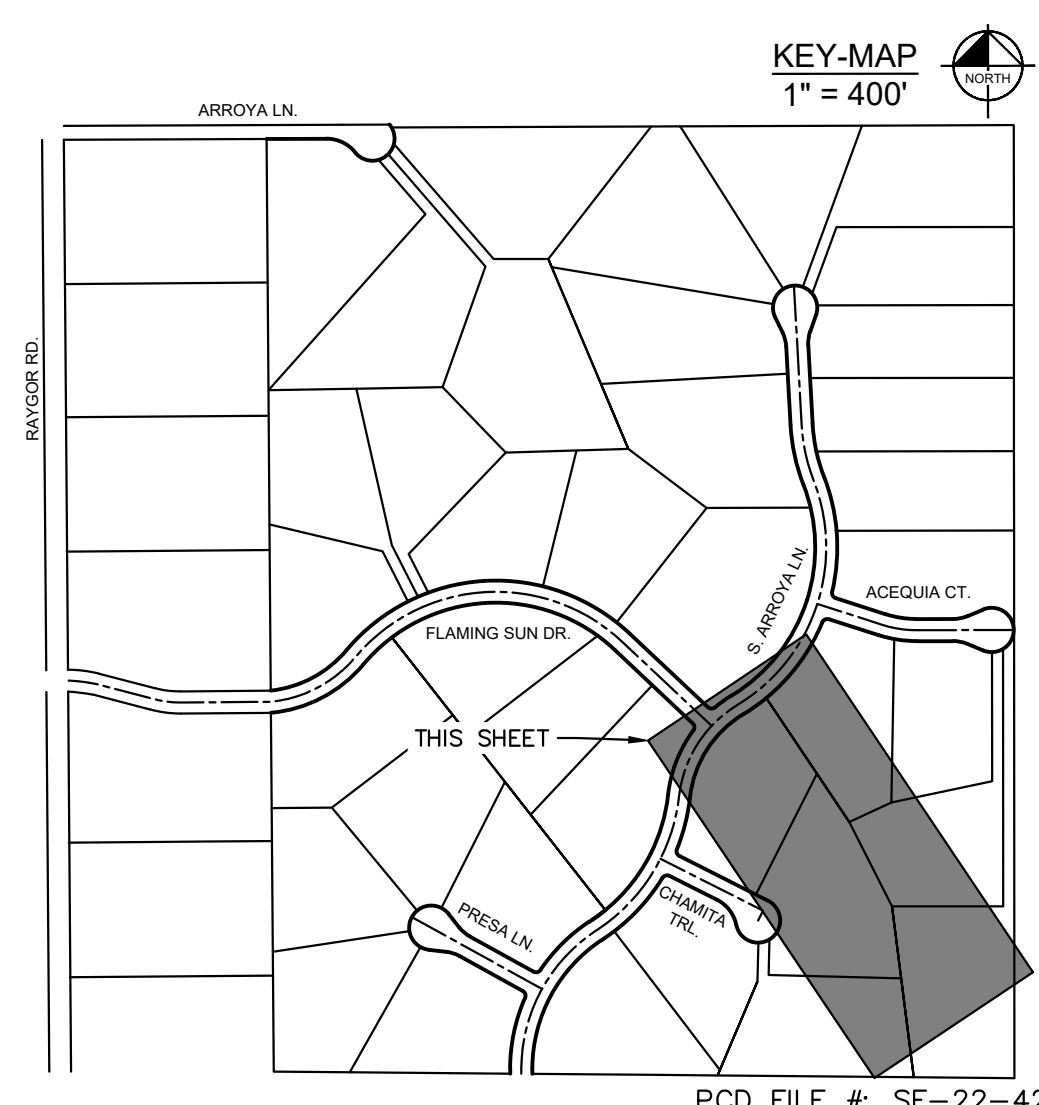
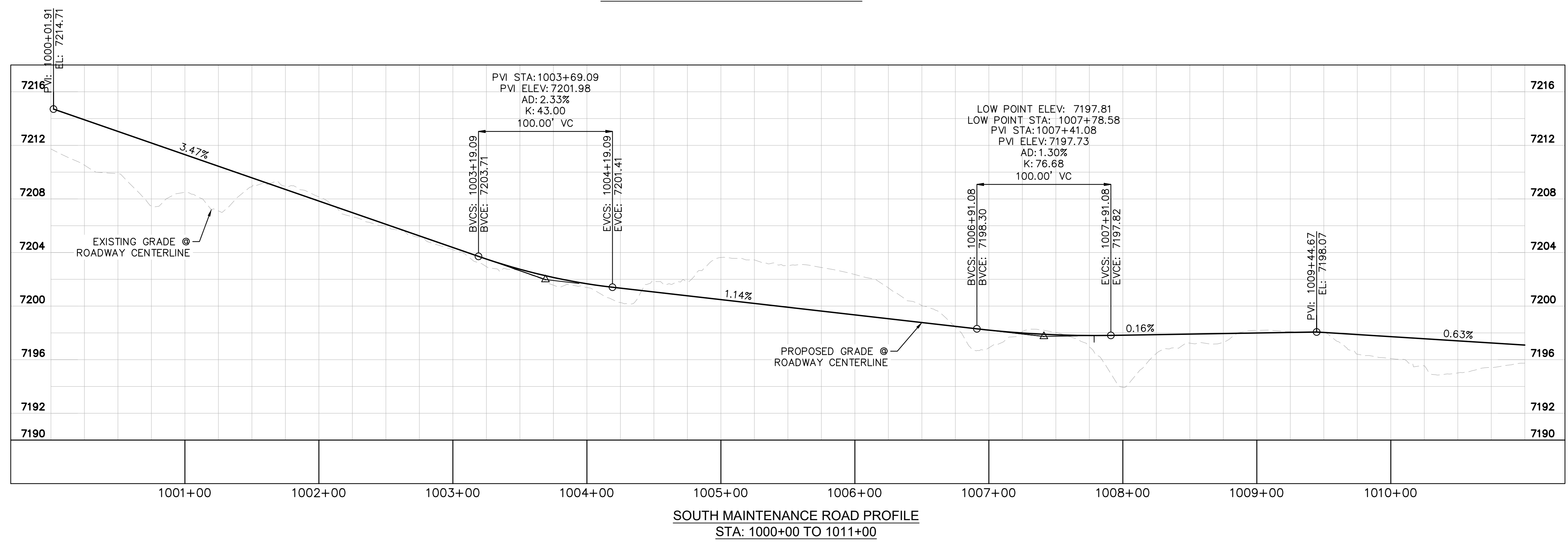
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- LEGEND**
- PROPERTY/LOT LINE
 - ROW LINE
 - UTILITY EASEMENT LINE
 - LOT #
 - PROPOSED DRAINAGE EASEMENT
 - X X CROSS SECTION (SEE SHEET C1.1)
 - PROPOSED CULVERT
 - EXISTING CULVERT
 - 7XXX- EXISTING MAJOR CONTOUR
 - 7XXX- EXISTING MINOR CONTOUR
 - 7XXX PROPOSED MAJOR CONTOUR
 - 7XXX PROPOSED MINOR CONTOUR
 - PROPOSED EDGE OF PAVEMENT
 - PROPOSED EDGE OF SHOULDER



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DRAWN BY: MJK
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DATE: 9/17/2024

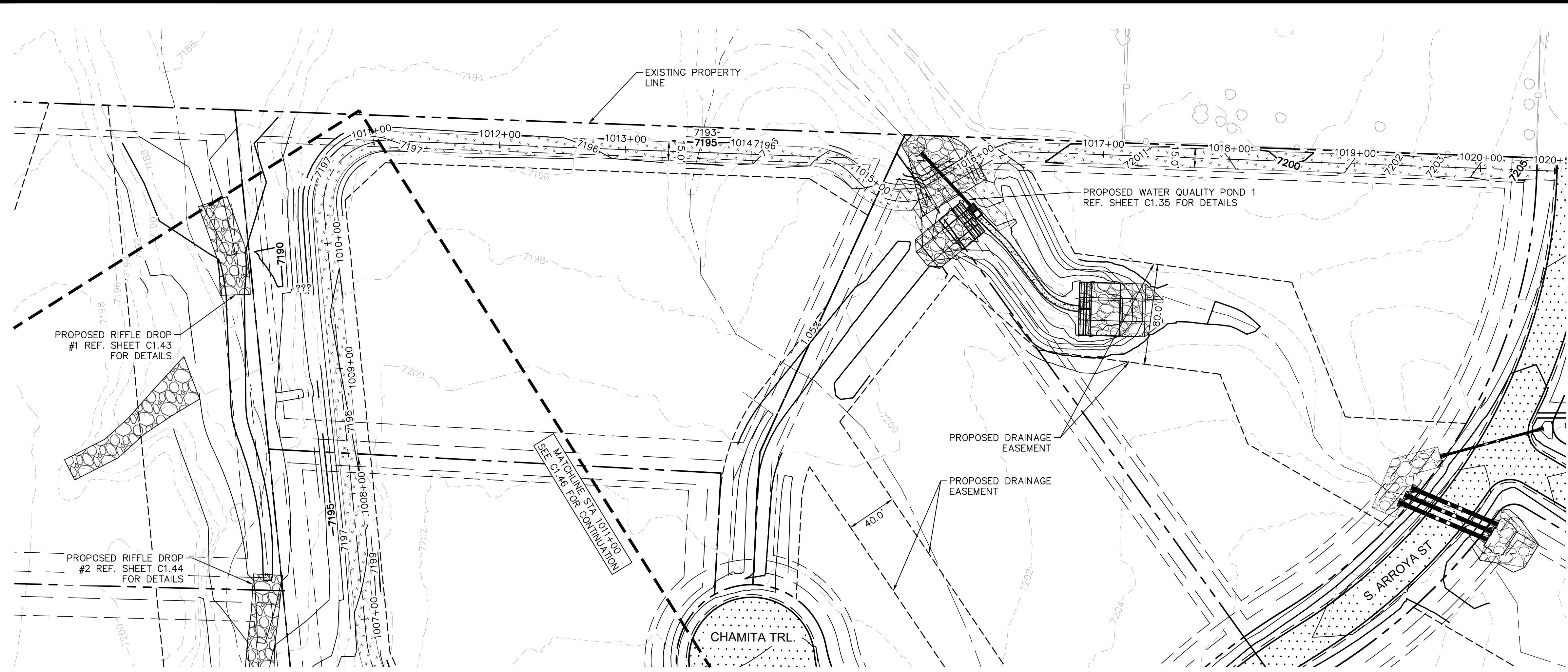
EAGLEVILLE
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CONSTRUCTION DOCUMENTS
S. MAINTENANCE ROAD PLAN & PROFILE

PROJECT NO. 196106001
SHEET C1.46

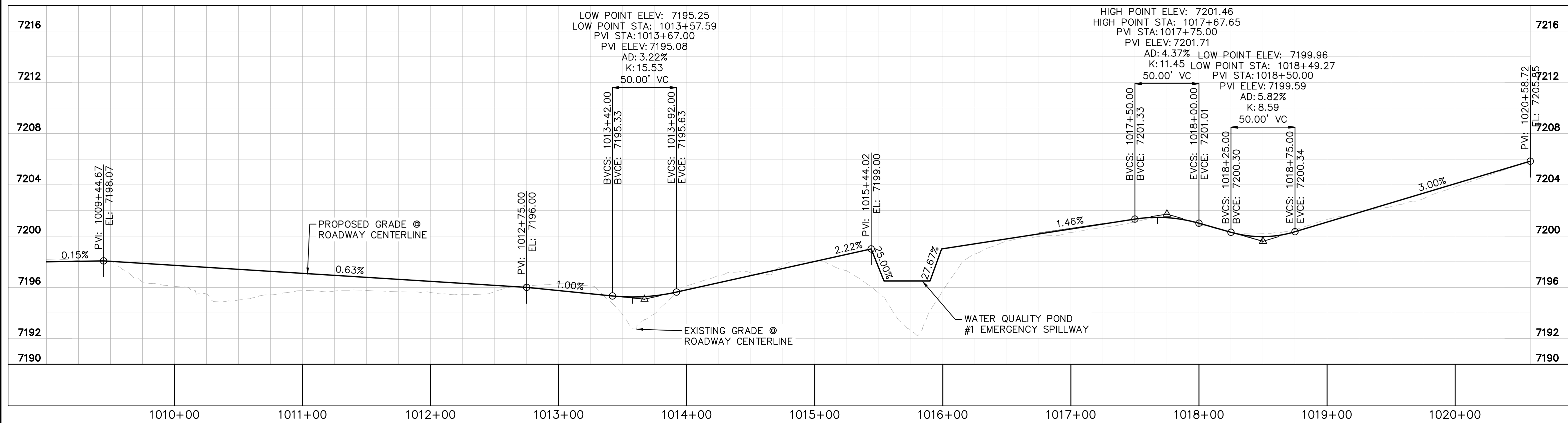
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NO. REVISION

PROFESSIONAL ENGINEER
57234
11/25/2014

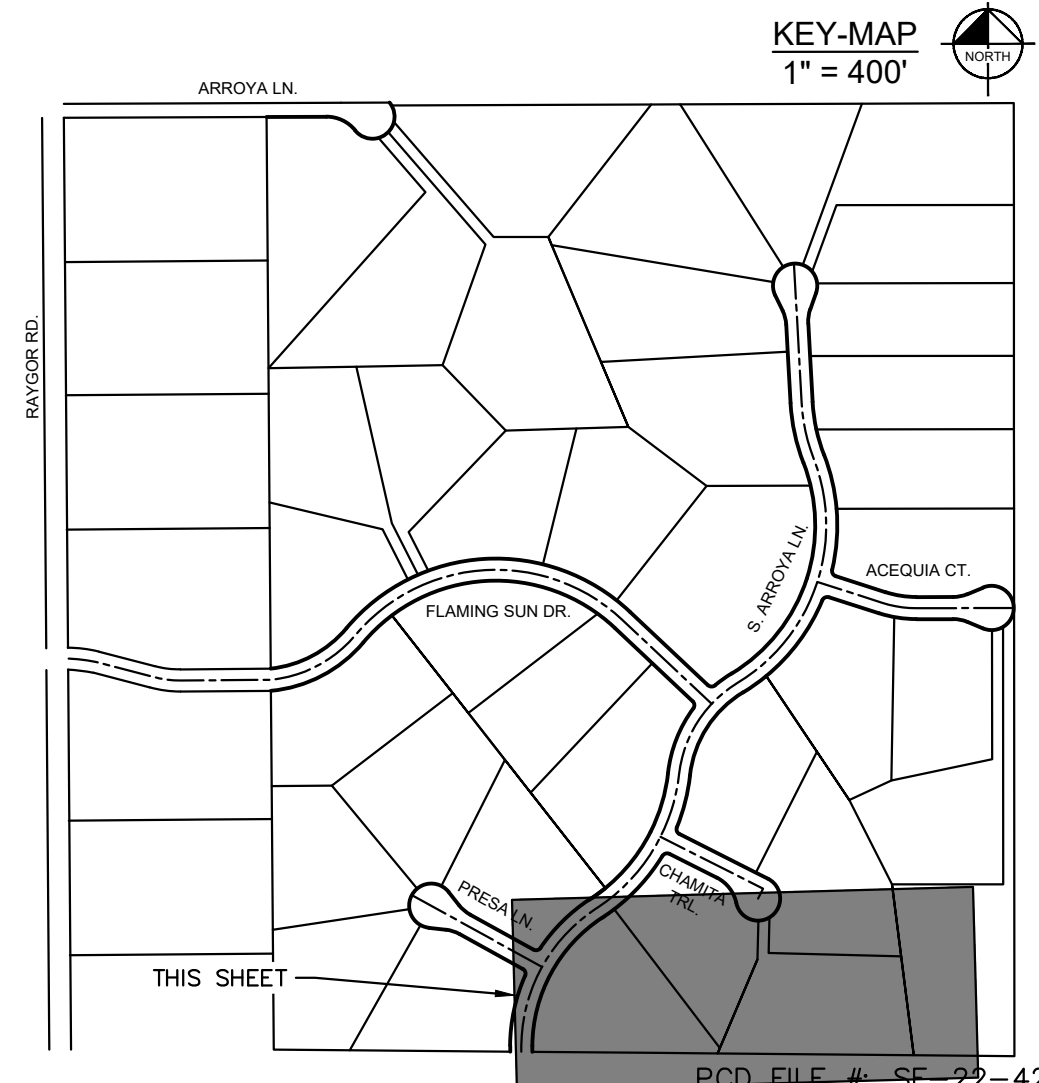
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SOUTH MAINTENANCE ROAD PLAN VIEW



SOUTH MAINTENANCE ROAD PROFILE
STA: 1011+00 TO 1020+59



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DATE: 9/17/2024

EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
S. MAINTENANCE ROAD PLAN & PROFILE



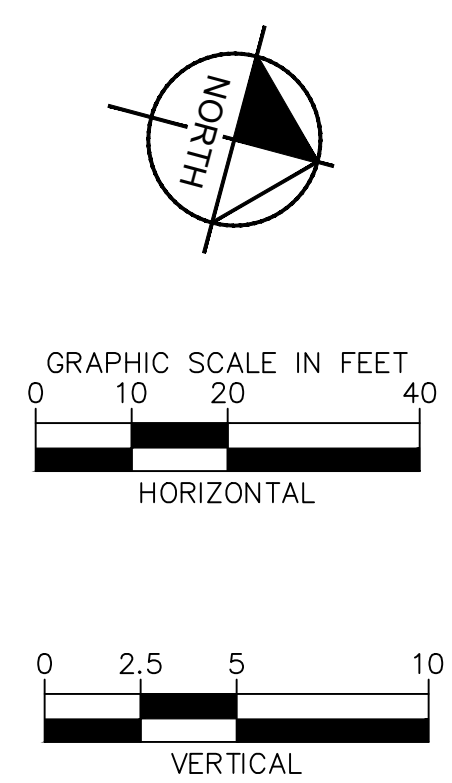
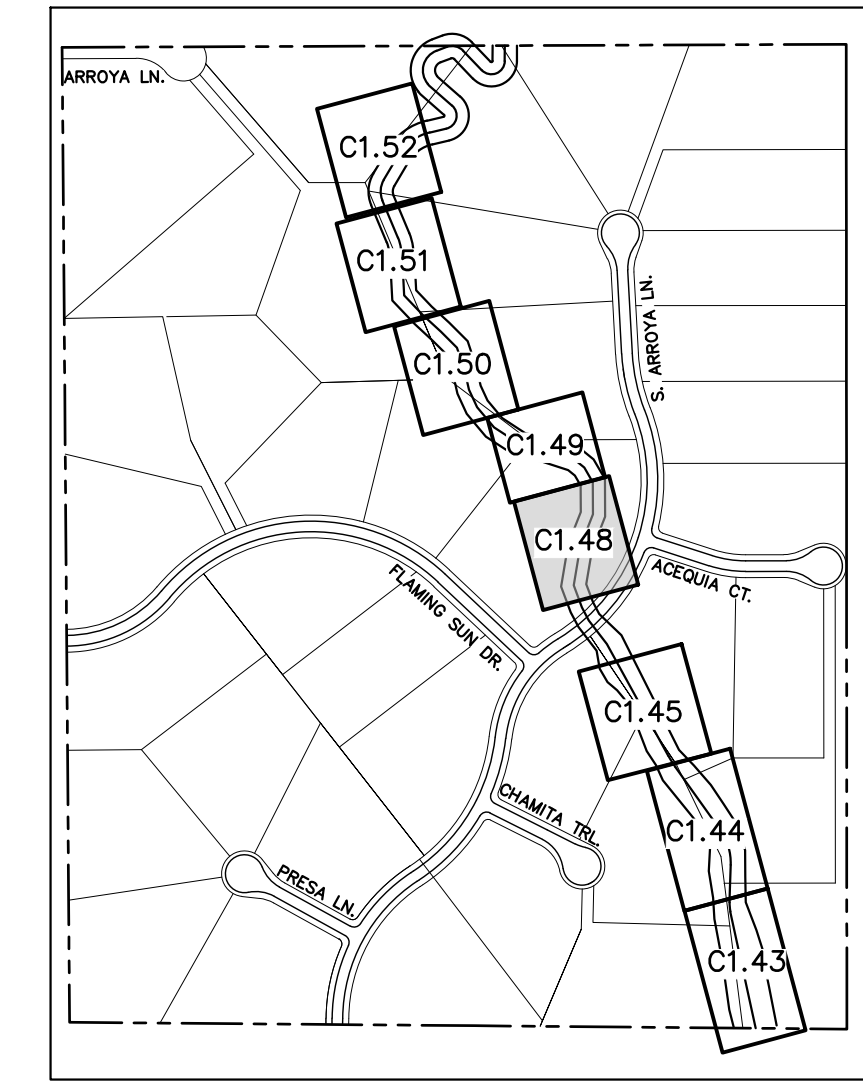
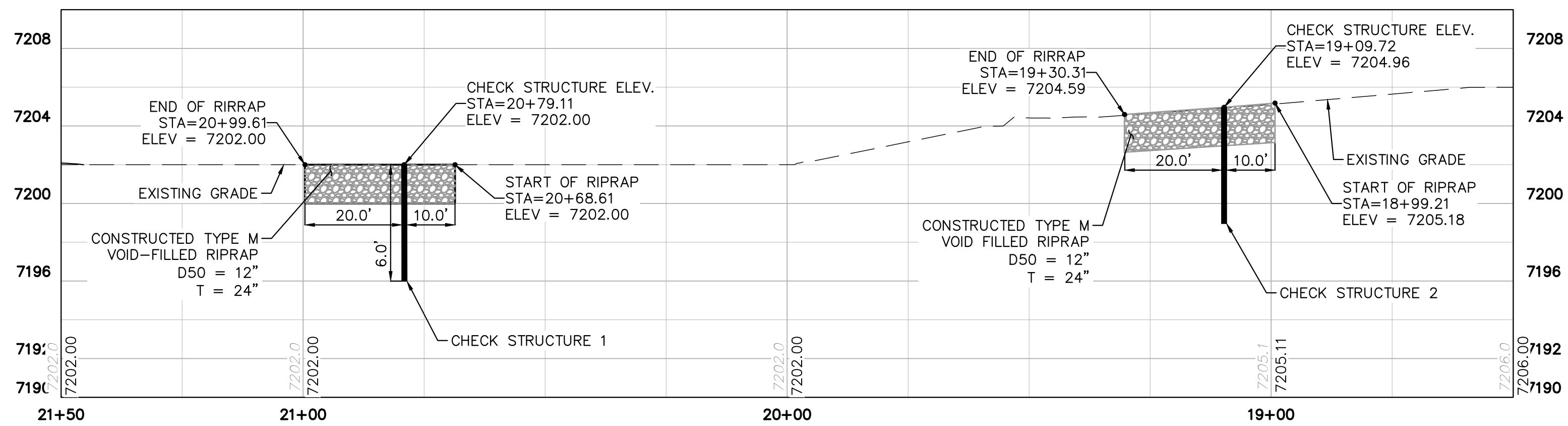
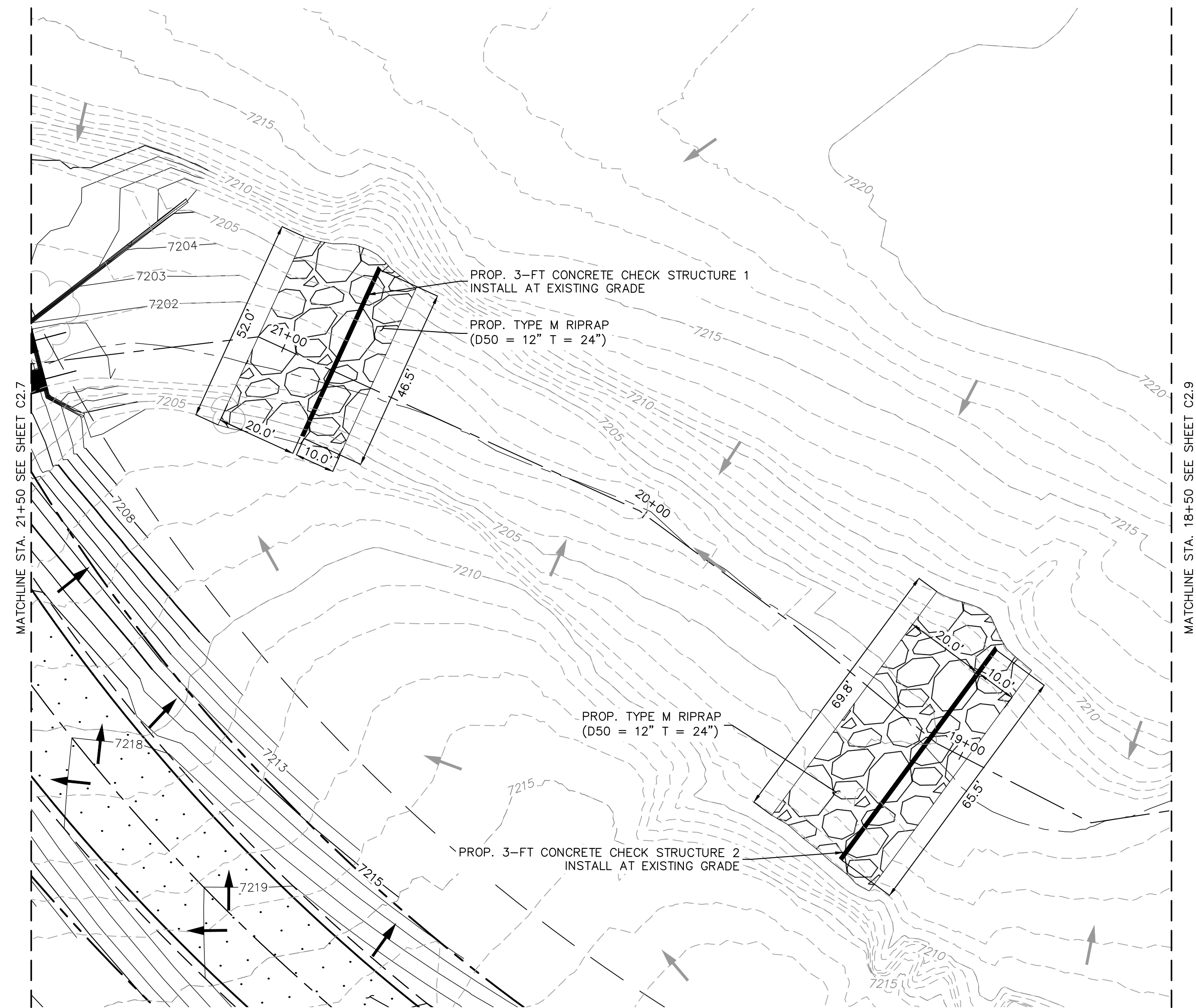
PROJECT NO.
196106001

SHEET

C1.47

PCD FILE # 5F-22-42

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NOTES:
1. CHANNEL INVERT SHOWN IN PROFILE VIEW IS THE ELEVATION OF THE LOW FLOW CHANNEL.

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DATE: 04/04/2024

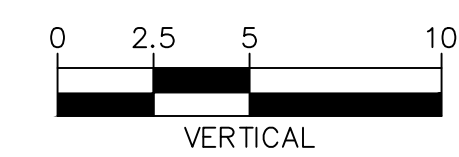
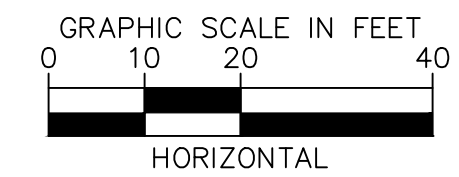
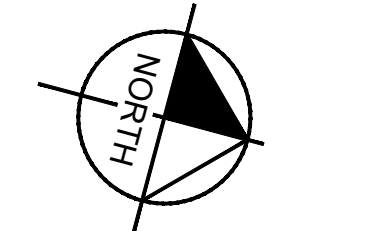
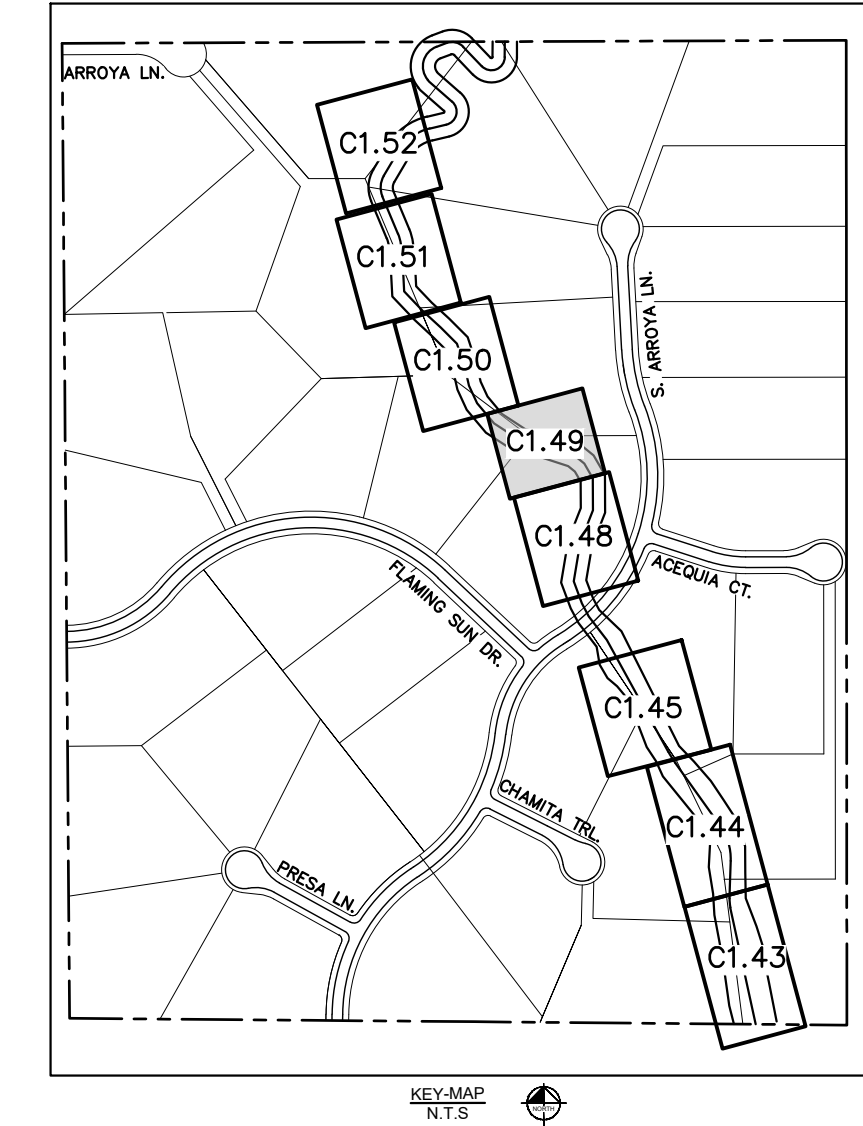
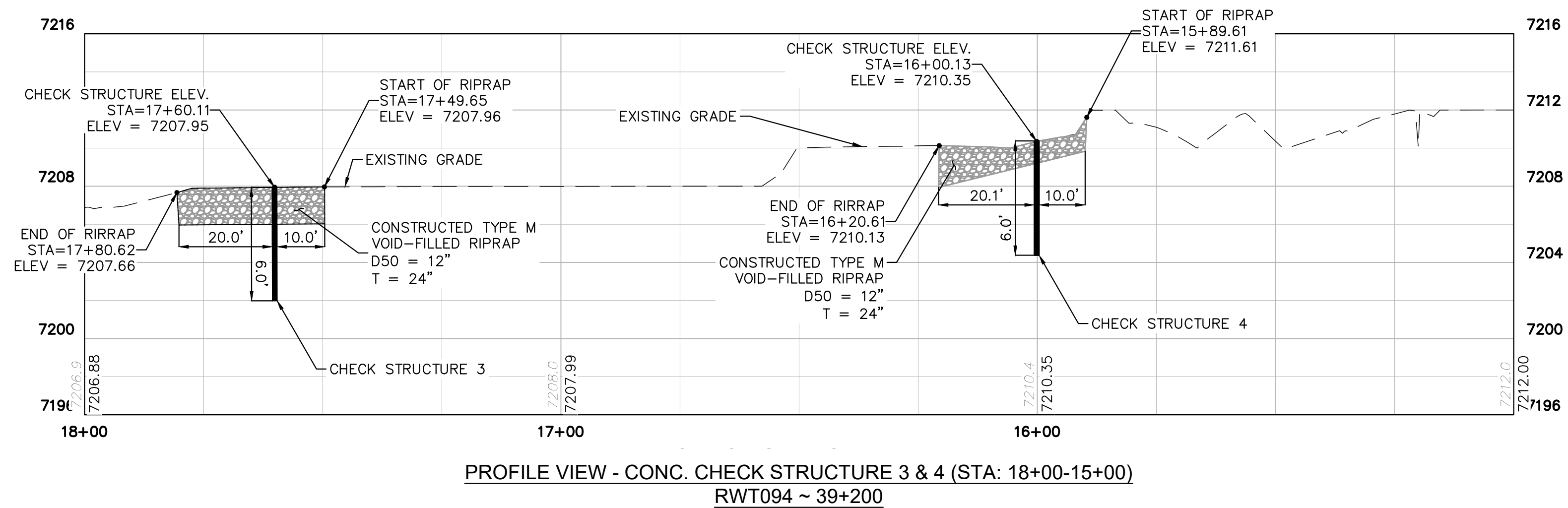
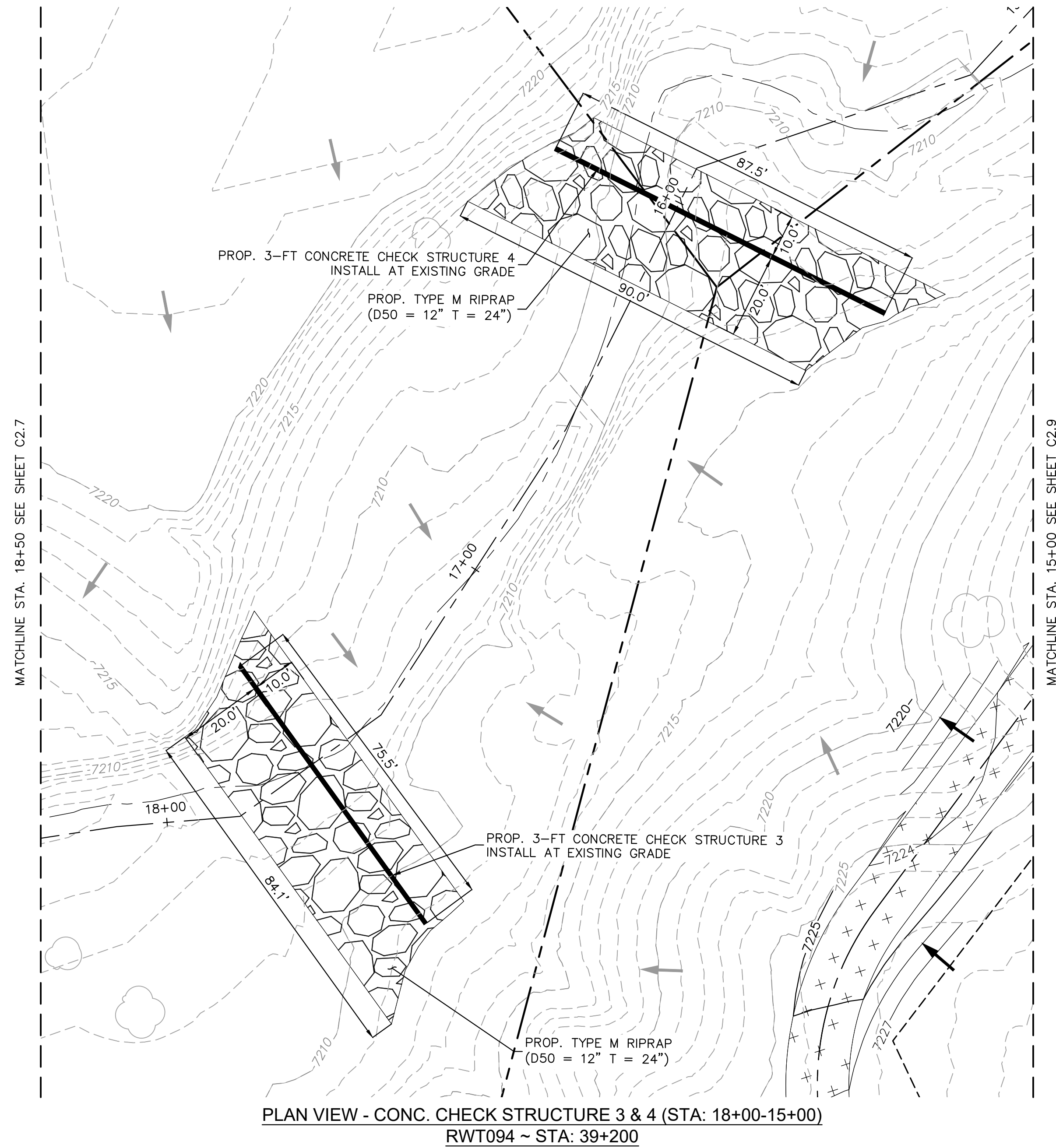
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CONSTRUCTION DOCUMENTS
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196106001

SHEET
C1.48

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NOTES:
1. CHANNEL INVERT SHOWN IN PROFILE VIEW IS THE ELEVATION OF THE LOW FLOW CHANNEL.

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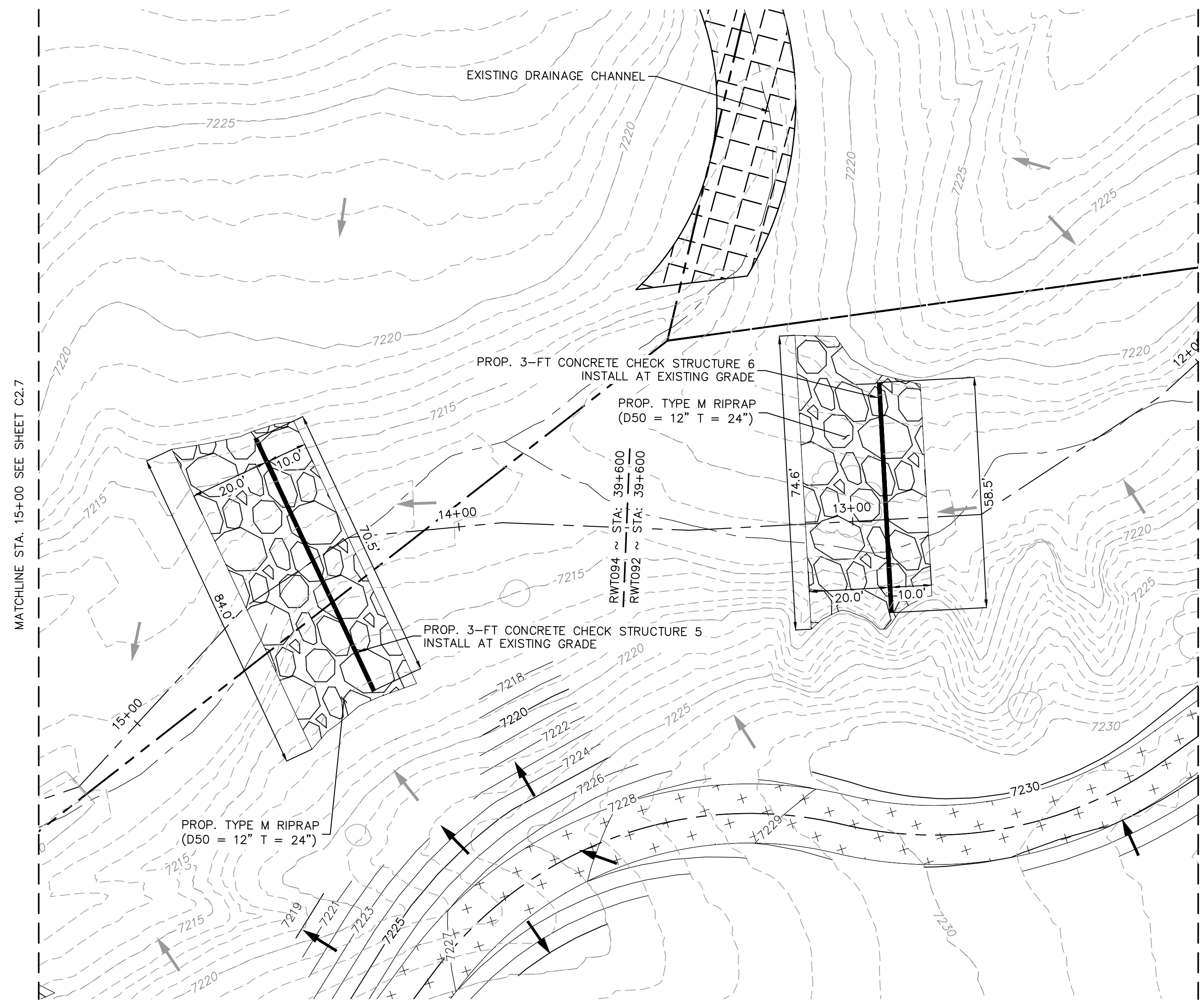
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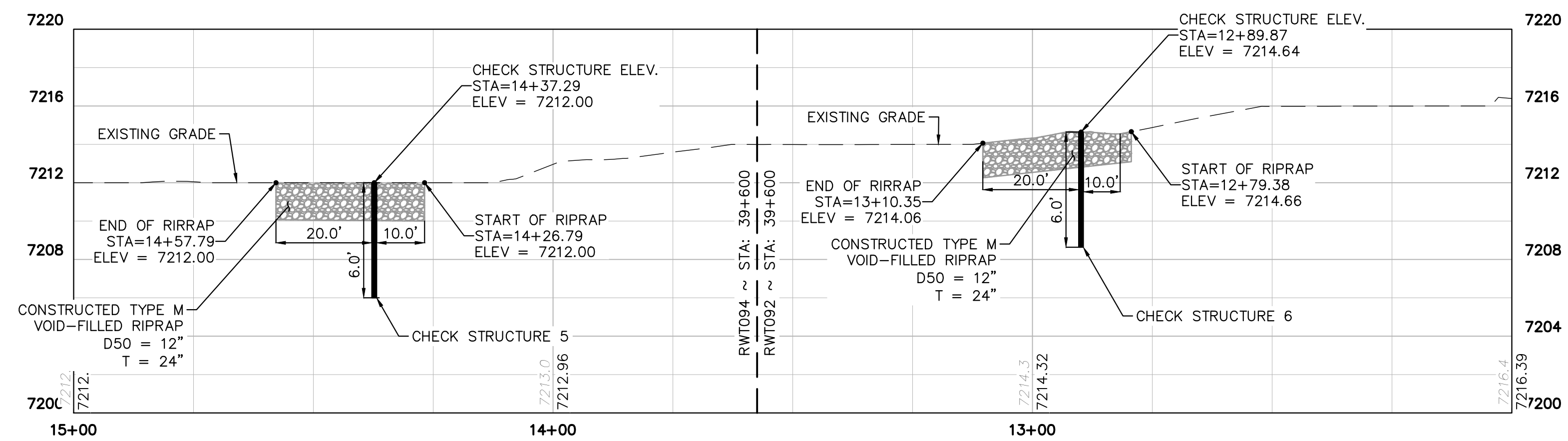
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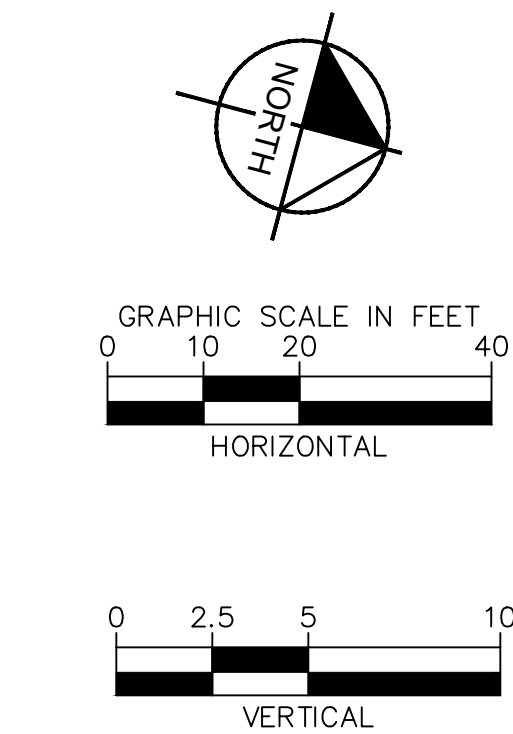
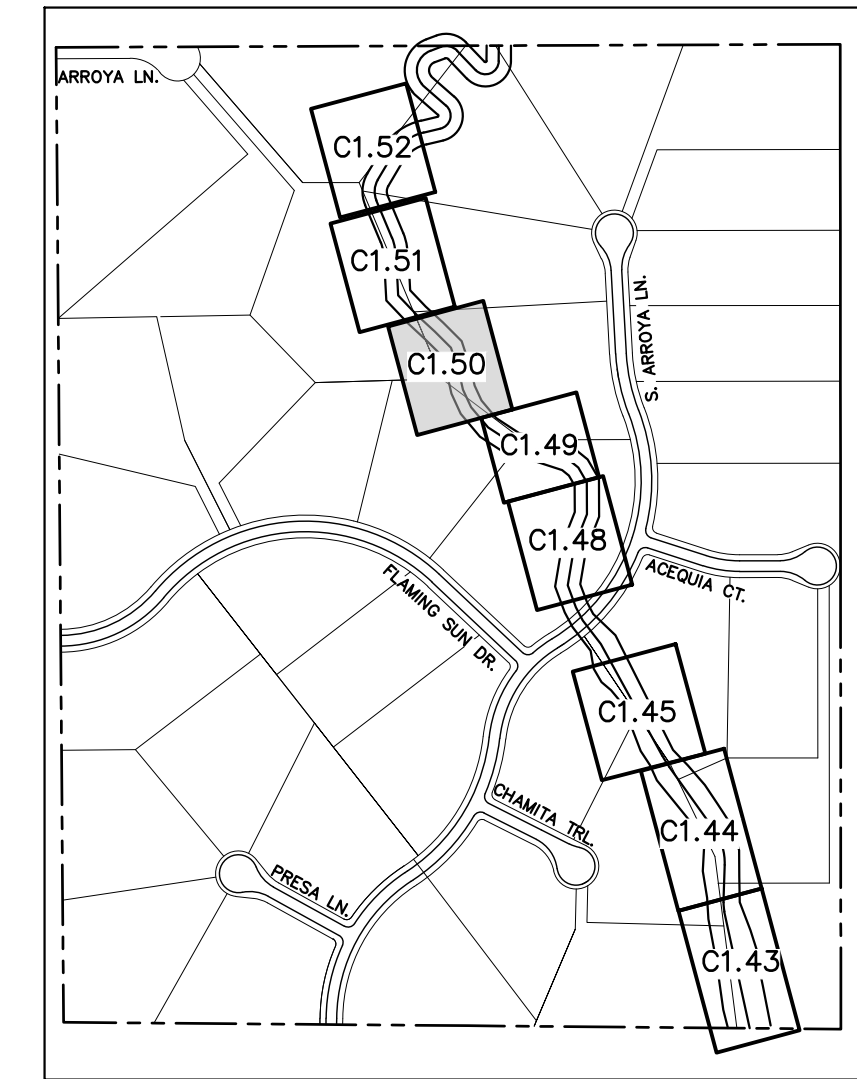
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RWT094 & RWT092 ~ STA: 39+600



PROFILE VIEW - CONC. CHECK STRUCTURE 5 & 6 (STA: 15+00-12+00)
RWT094 & RWT092 ~ STA: 39+600



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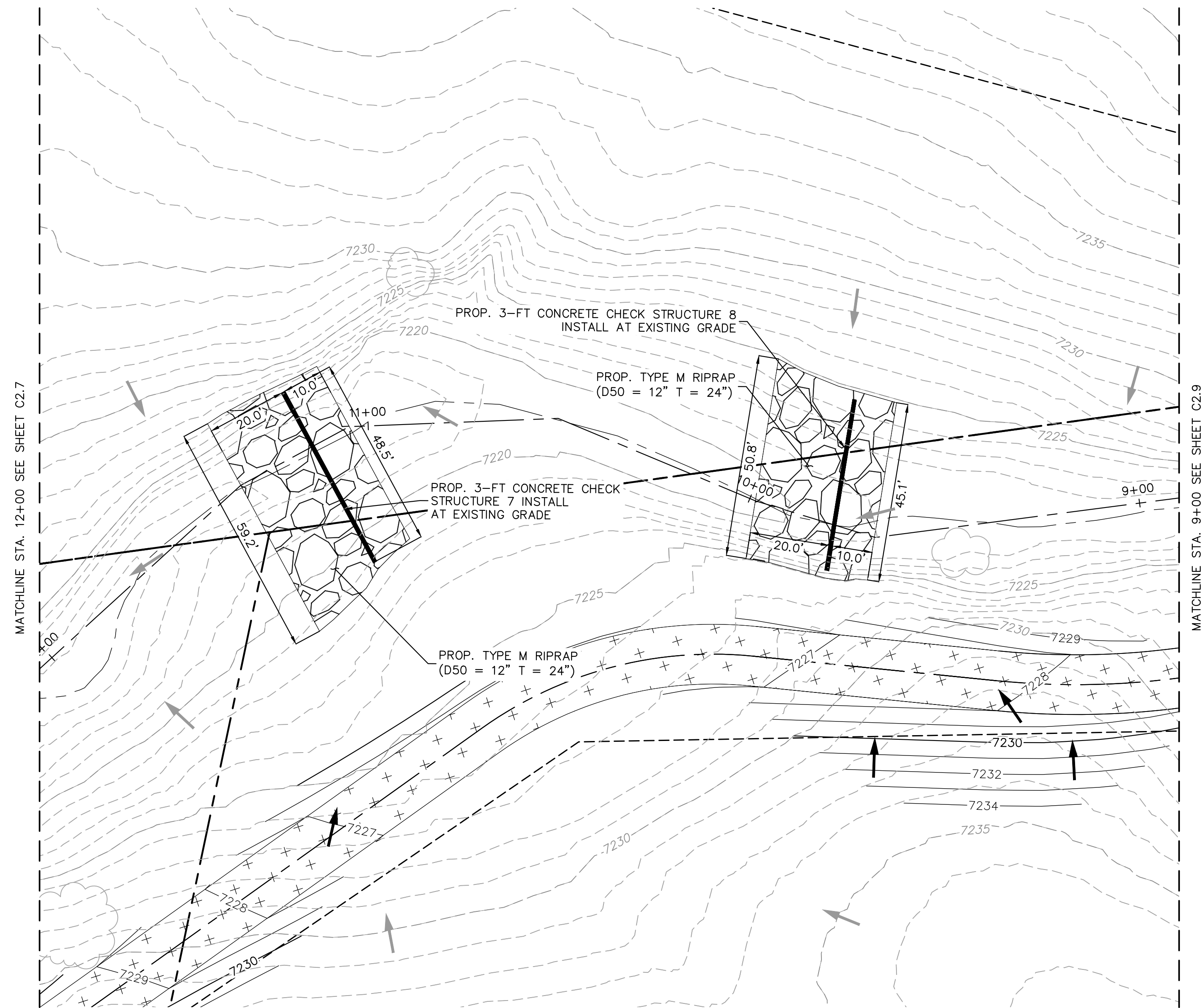
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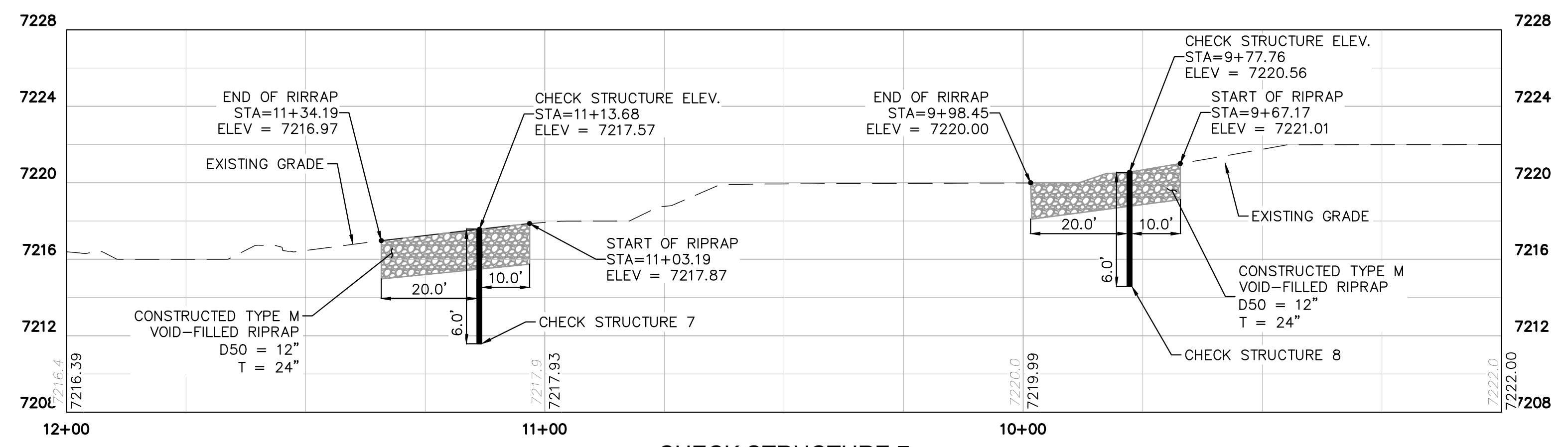
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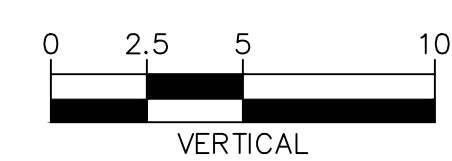
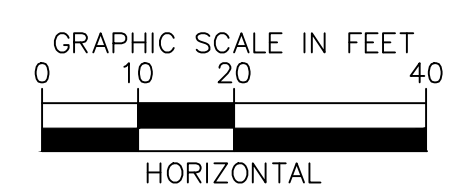
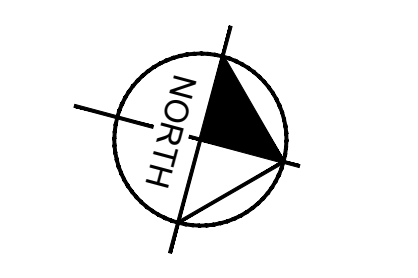
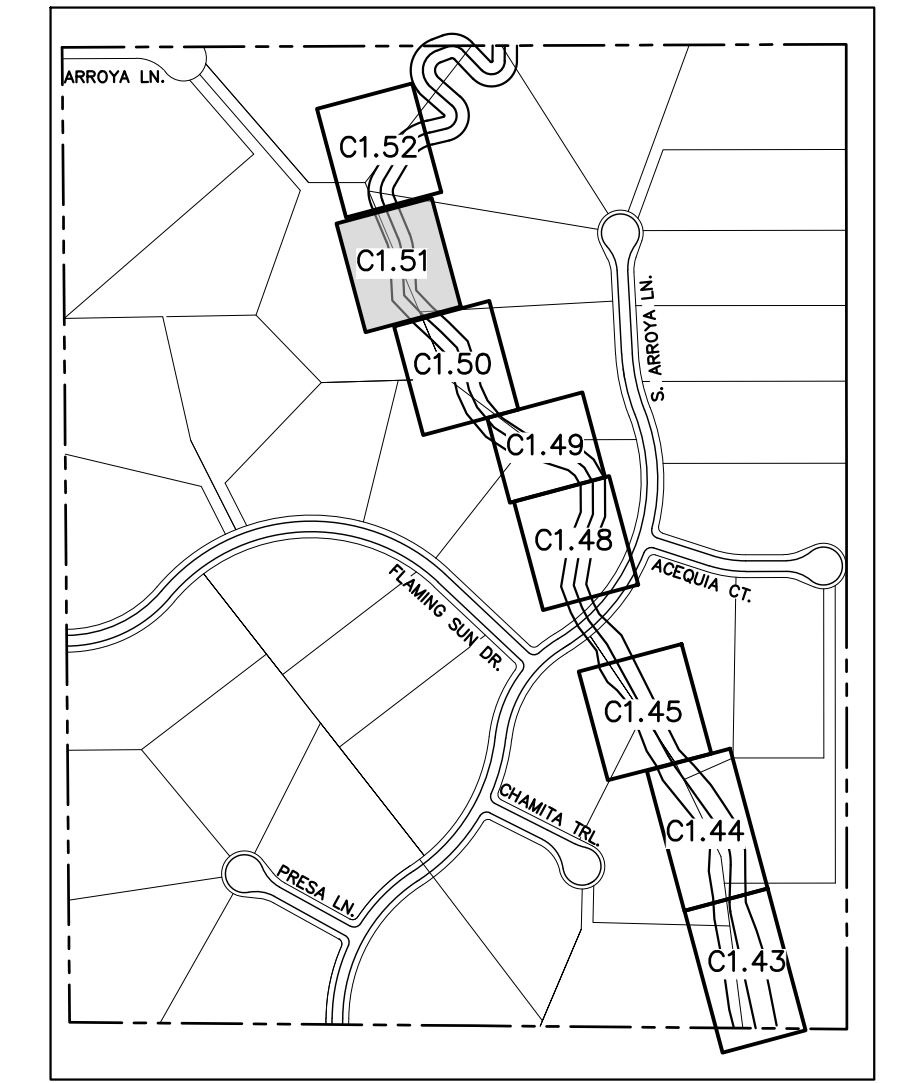
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RWT092 ~ STA: 39+800



PROFILE VIEW - CONC. CHECK STRUCTURE 7 & 8 (STA: 12+00-9+00)
RWT092 ~ STA: 39+800



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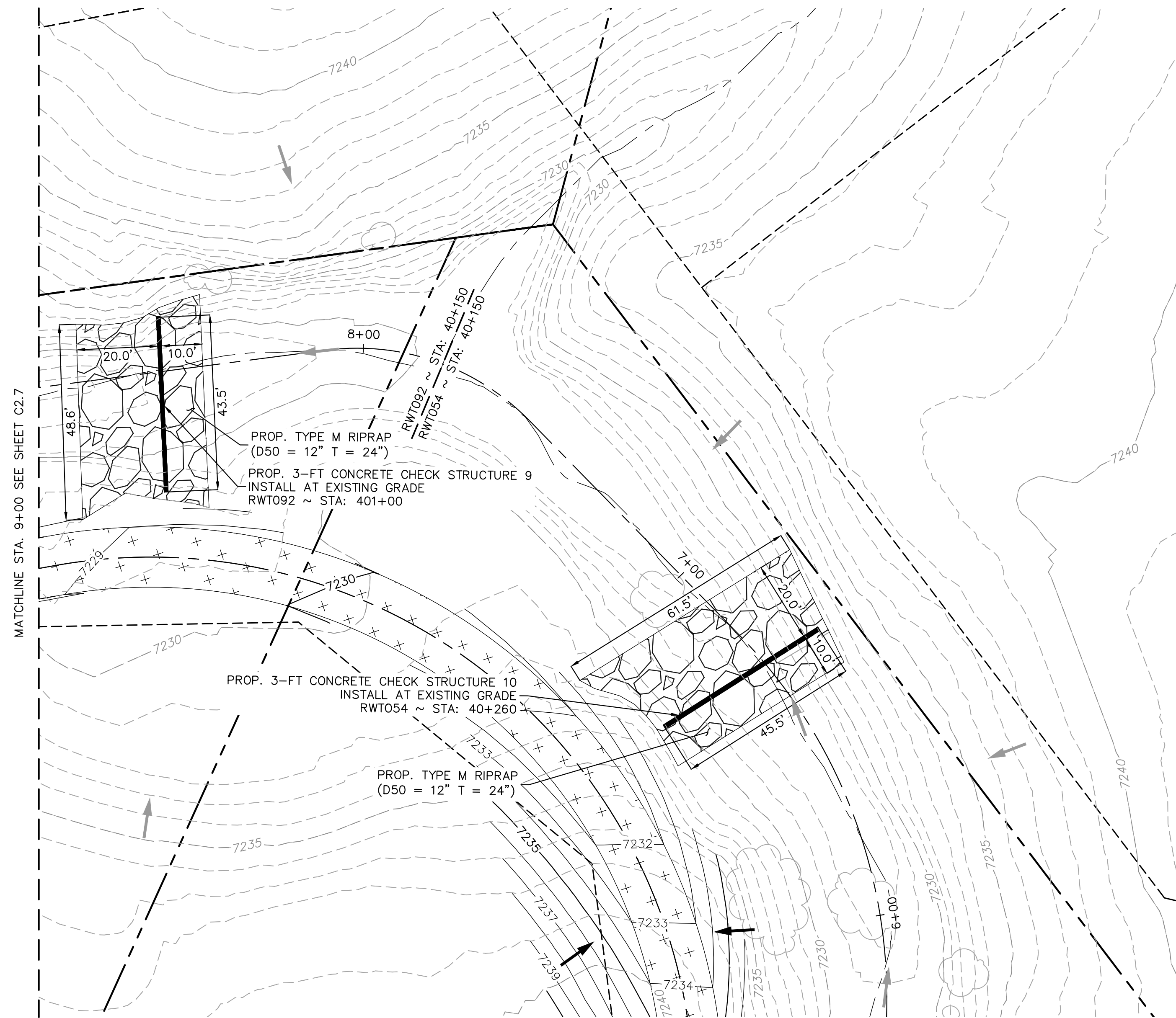
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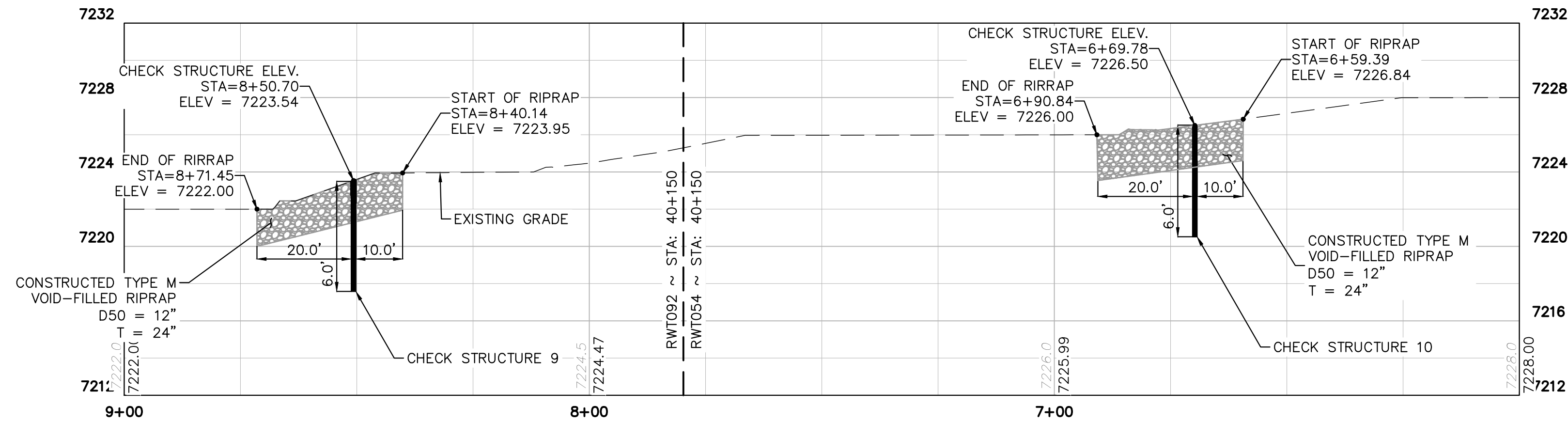
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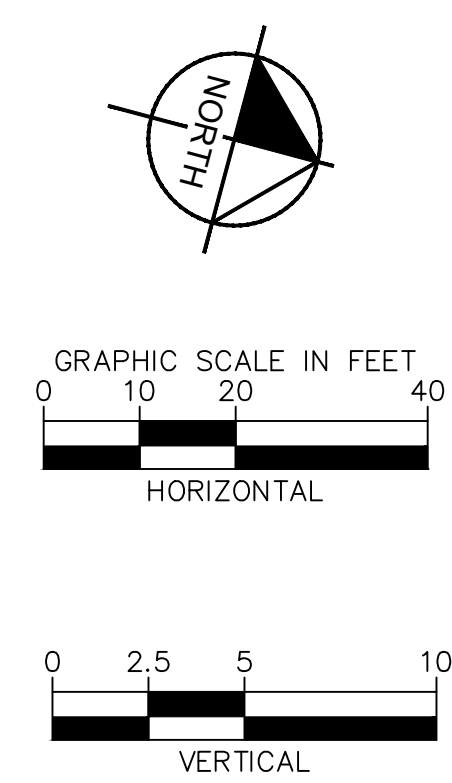
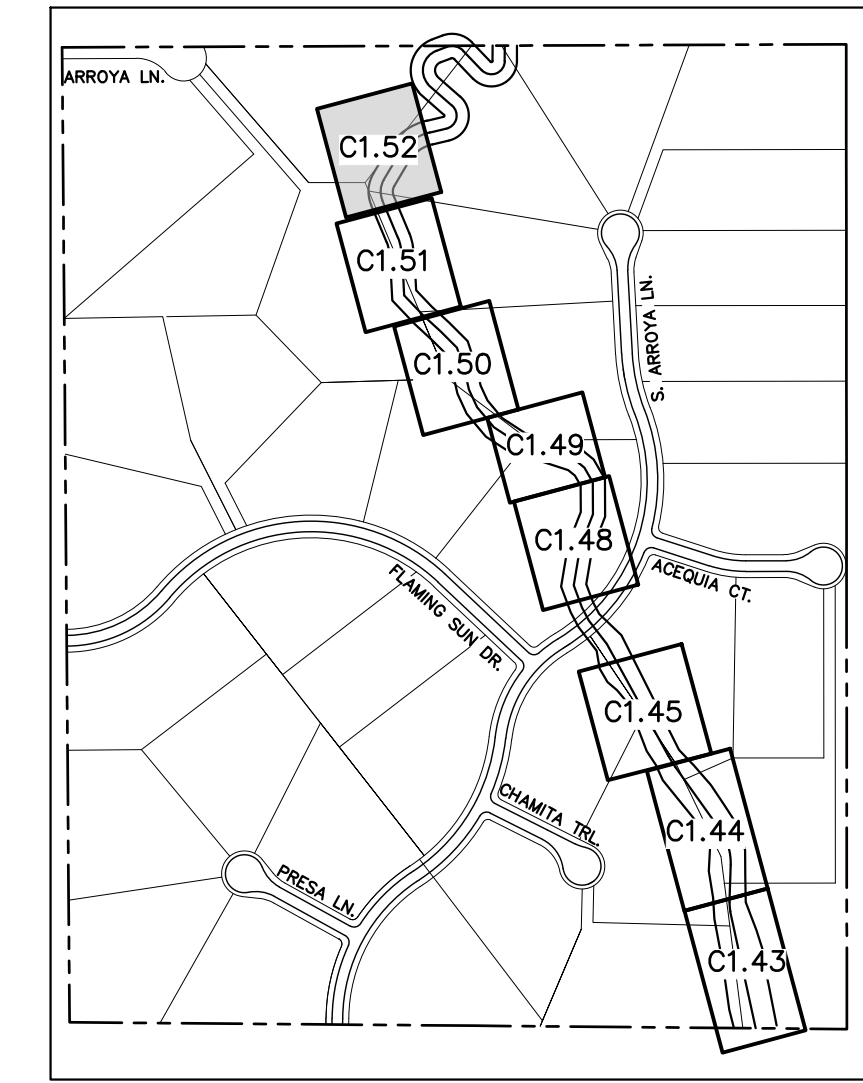
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RWT092 & RWT054 ~ STA: 40+150



PROFILE VIEW - CONC. CHECK STRUCTURE 9 & 10 (STA: 9+00-8+00)
RWT092 & RWT054 ~ STA: 40+150



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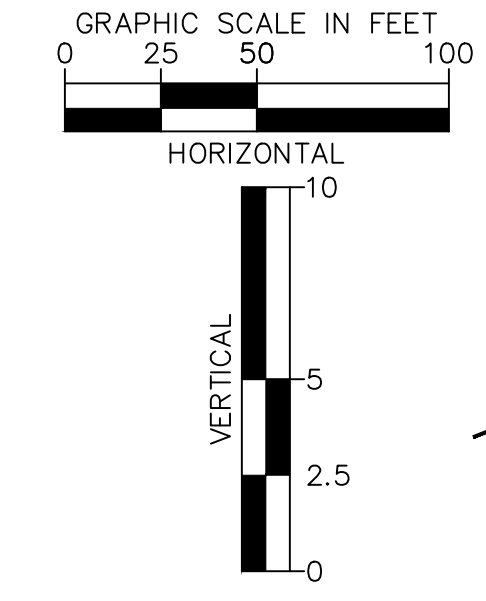
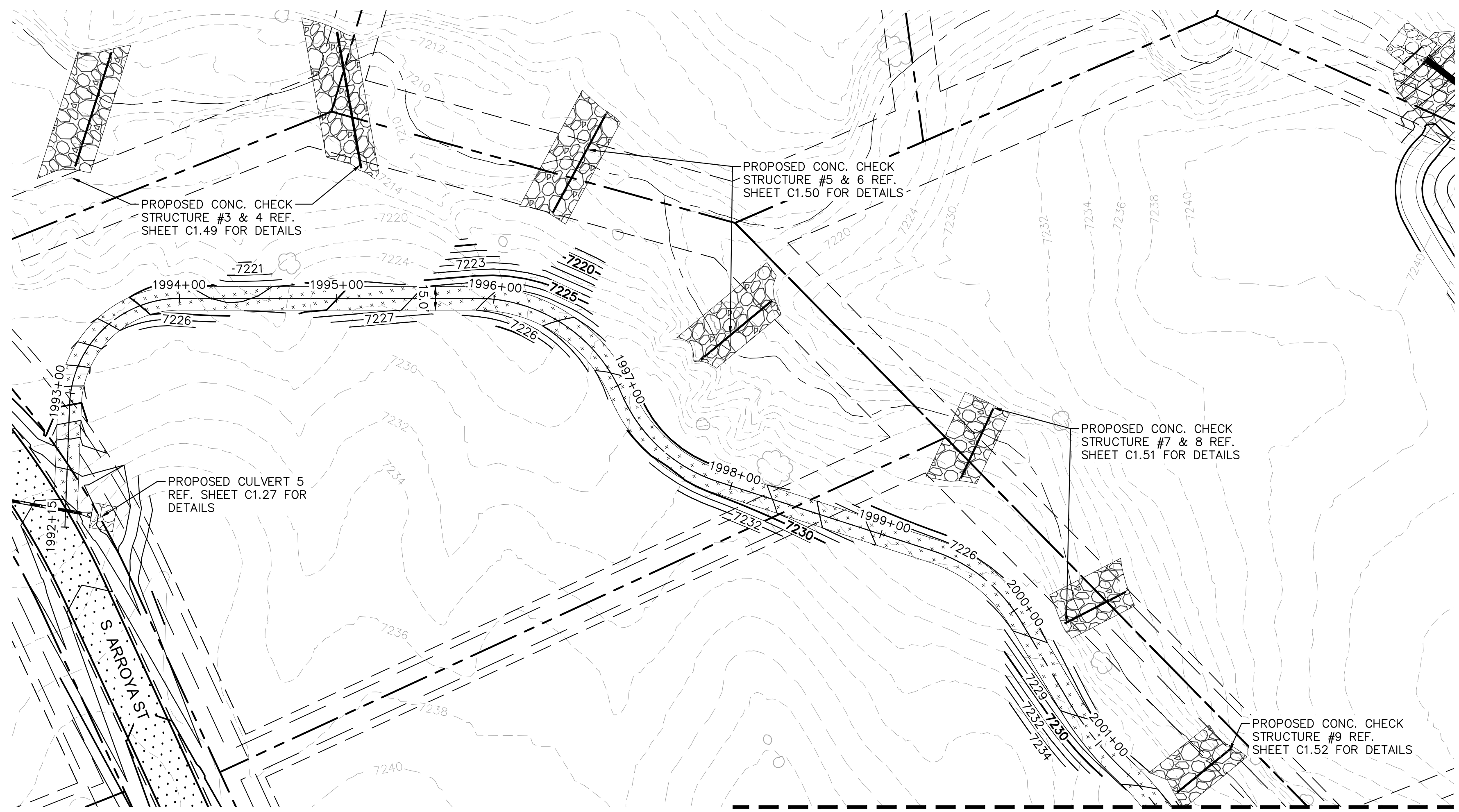
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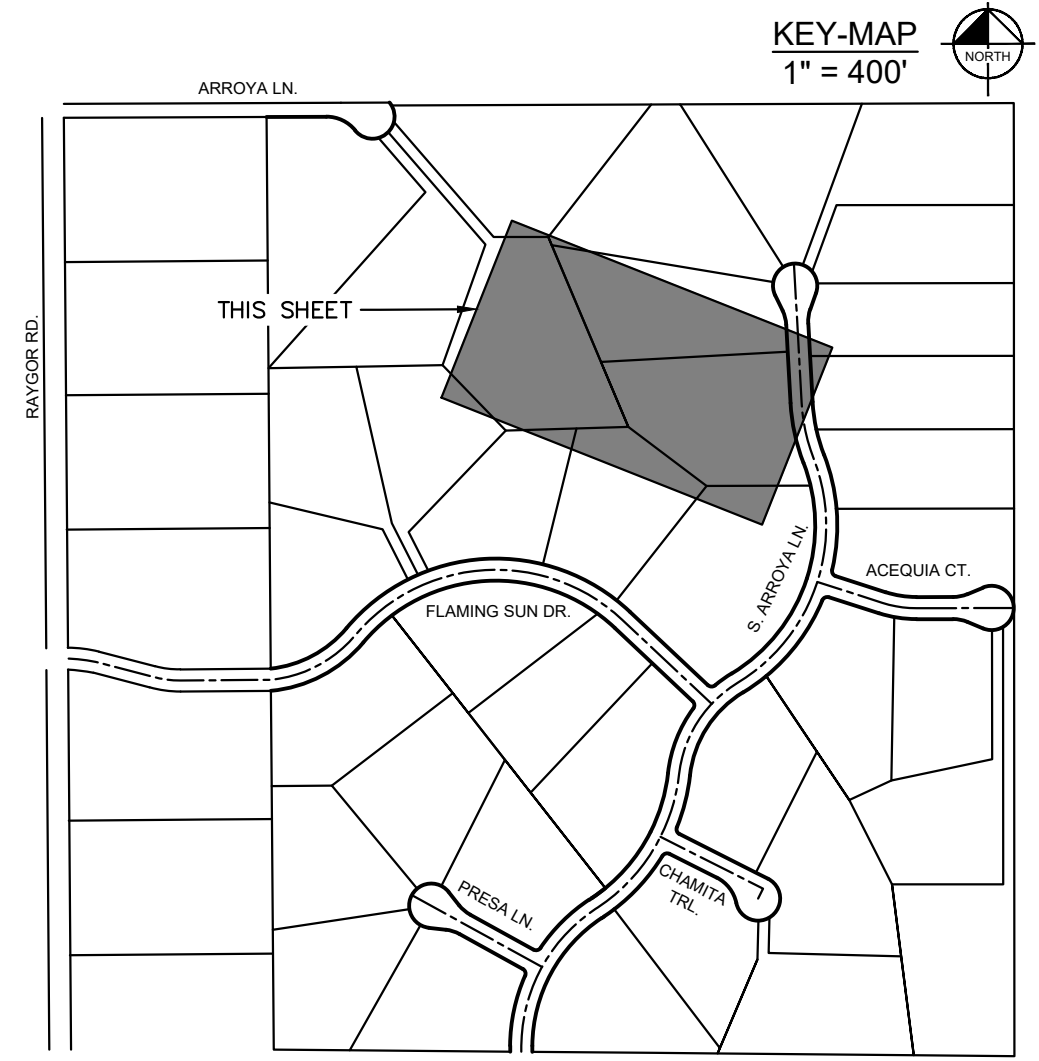
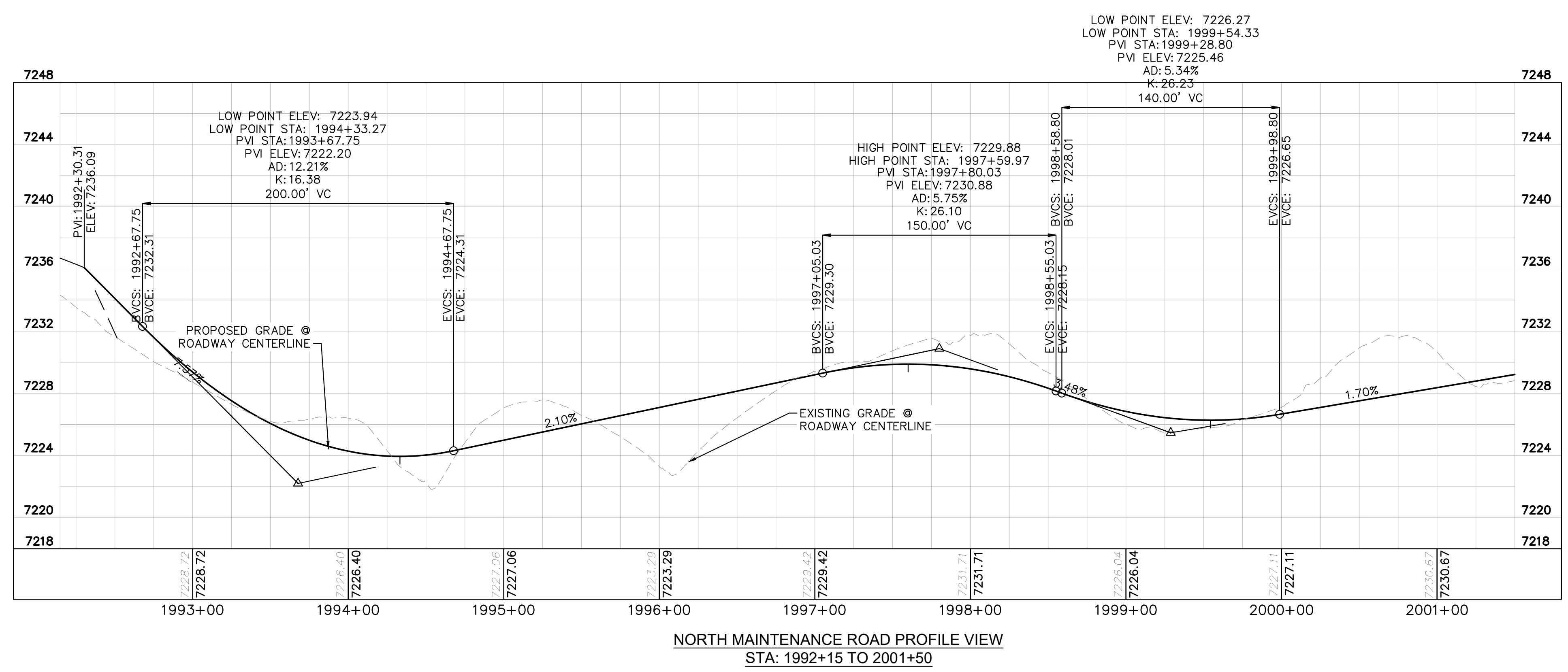
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- LEGEND
- PROPERTY/LOT LINE
 - ROW LINE
 - UTILITY EASEMENT LINE
 - LOT # LOT NUMBER
 - x-x- PROPOSED DRAINAGE EASEMENT
 - ▲▲ CROSS SECTION (SEE SHEET C1.1)
 - PROPOSED CULVERT
 - EXISTING CULVERT
 - 7XXX- EXISTING MAJOR CONTOUR
 - 7XXX- EXISTING MINOR CONTOUR
 - 7XXX PROPOSED MAJOR CONTOUR
 - 7XXX PROPOSED MINOR CONTOUR
 - PROPOSED EDGE OF PAVEMENT
 - PROPOSED EDGE OF SHOULDER



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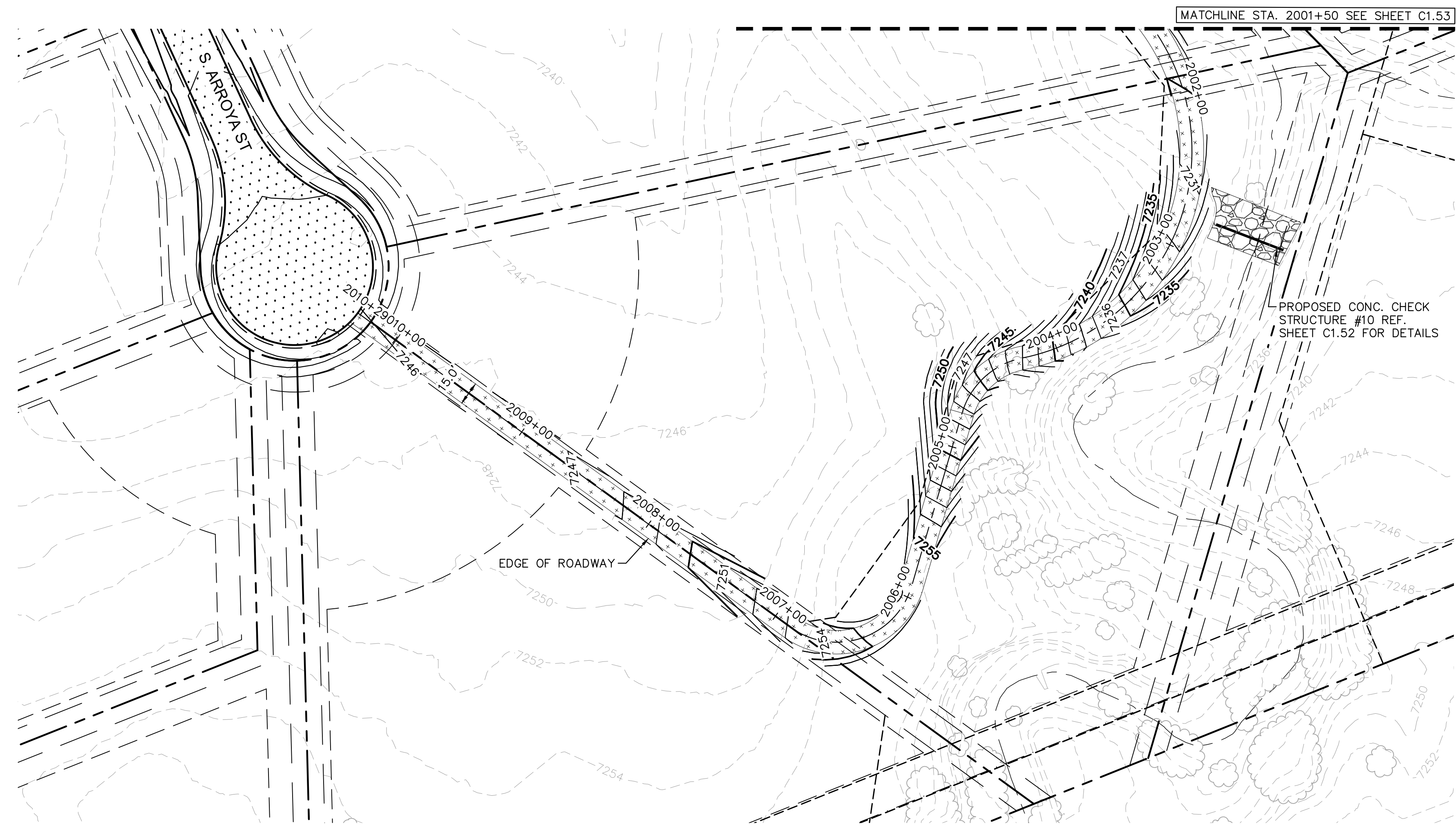
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COLORADO REGISTERED
 PROFESSIONAL ENGINEER
 57294
 8/25/2016

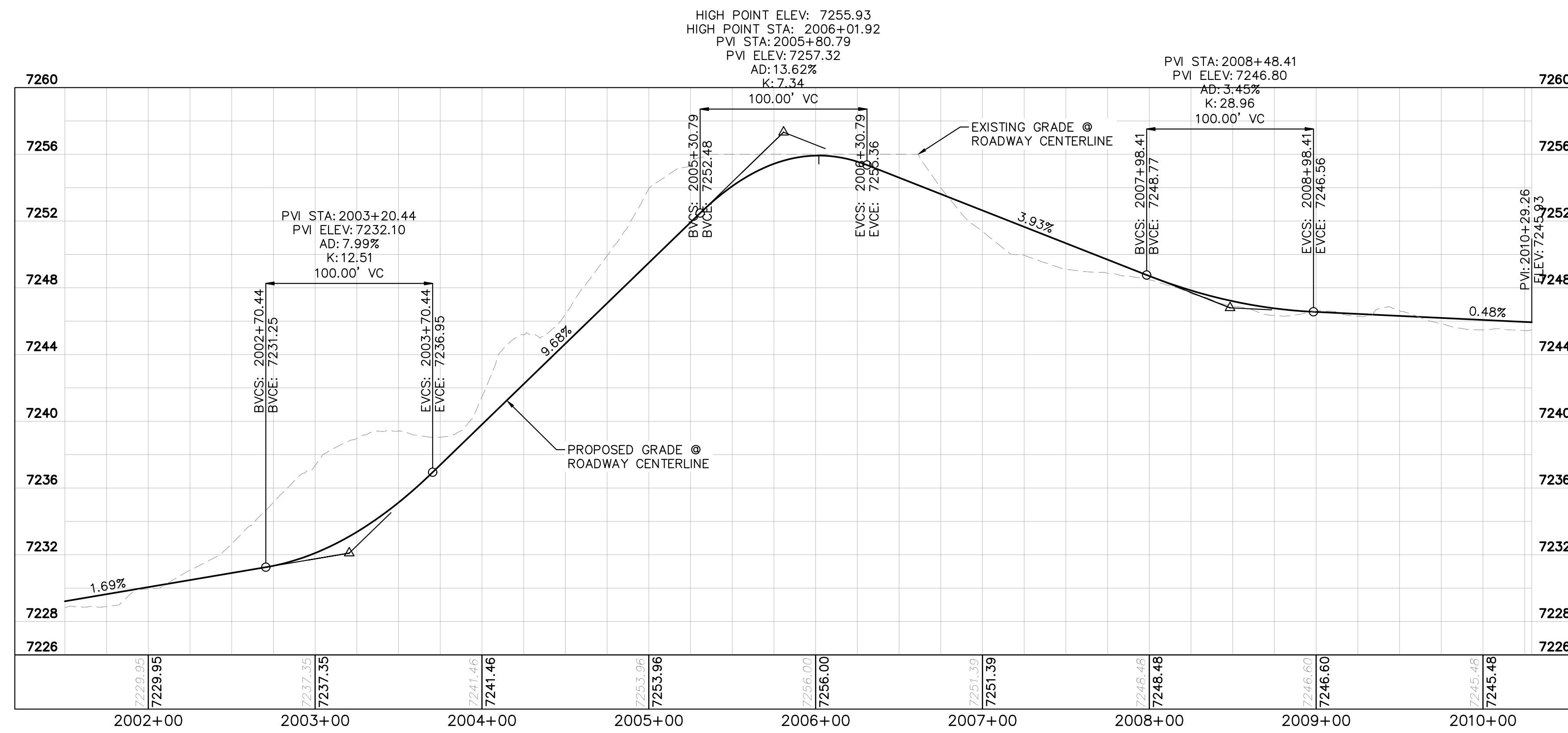
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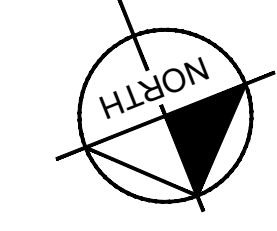
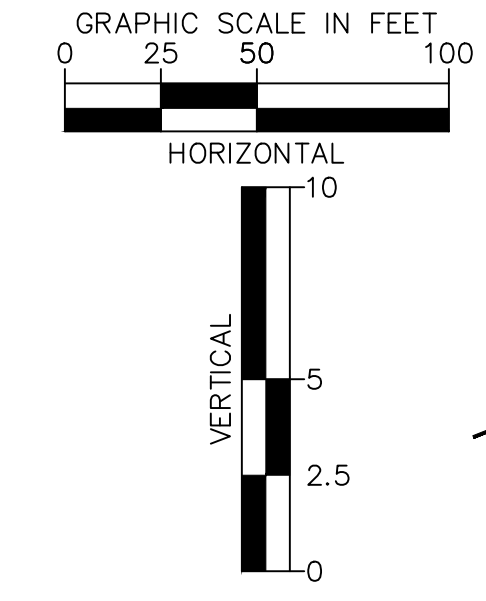
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NORTH MAINTENANCE ROAD PLAN VIEW

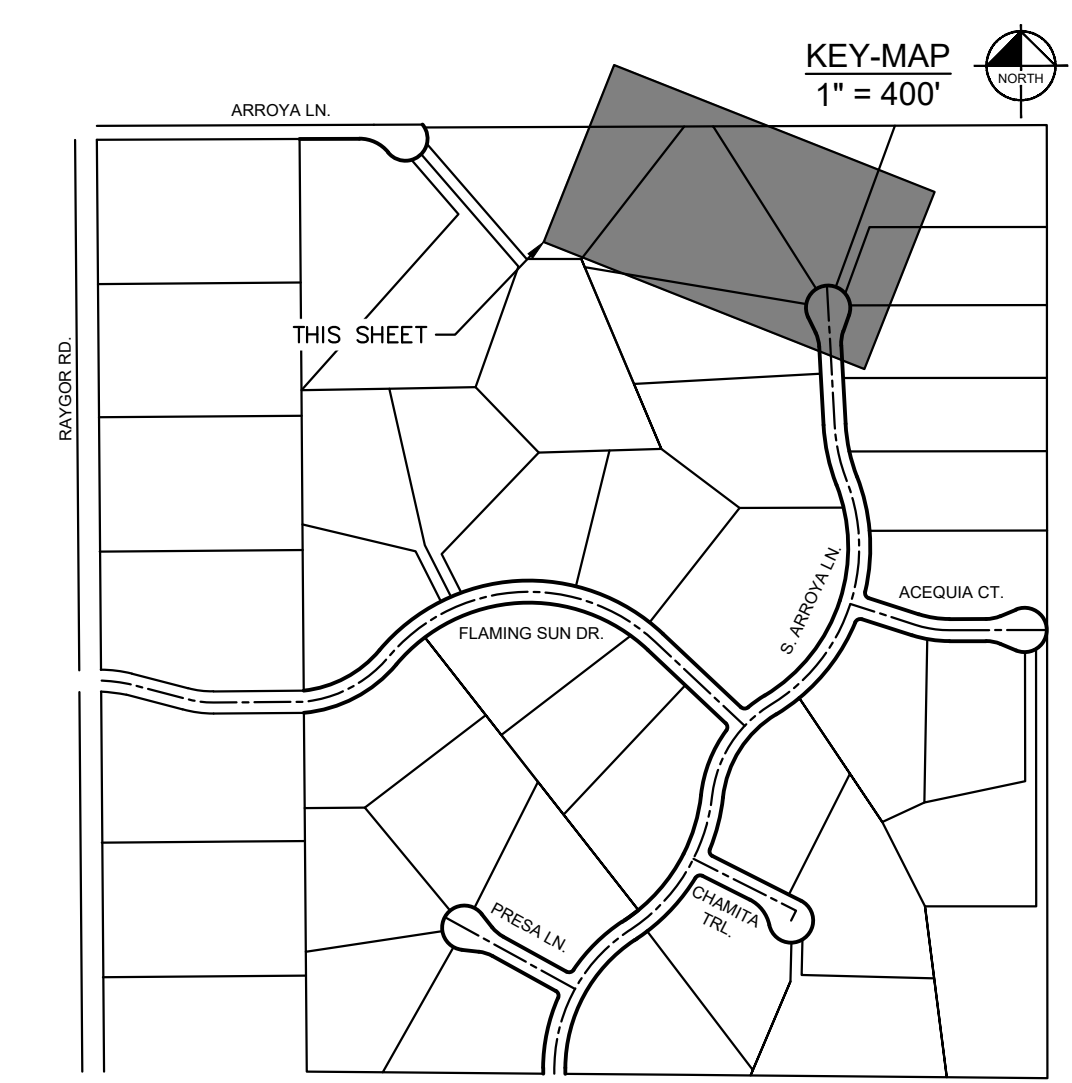


NORTH MAINTENANCE ROAD PROFILE
STA: 2001+50 TO 2010+29



LEGEND

- PROPERTY/LOT LINE
- ROW LINE
- UTILITY EASEMENT LINE
- LOT # LOT NUMBER
- x-x- PROPOSED DRAINAGE EASEMENT
- ▲▲ CROSS SECTION (SEE SHEET C1.1)
- PROPOSED CULVERT
- EXISTING CULVERT
- 7XXX- EXISTING MAJOR CONTOUR
- 7XXX- EXISTING MINOR CONTOUR
- 7XXX PROPOSED MAJOR CONTOUR
- 7XXX PROPOSED MINOR CONTOUR
- PROPOSED EDGE OF PAVEMENT
- PROPOSED EDGE OF SHOULDER



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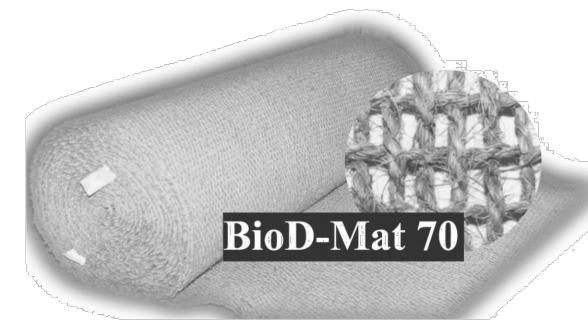
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EL PASO COUNTY, COLORADO
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C1.54



BioD-Mat[®] 70

Semi-Permanent Woven Brown Bristle Coir Mat
Sri Lanka patent # 11159
Completely Wildlife Safe!

Woven Coir blanket with unit weight of 780 g/m².

Description

The BioD-Mat[®] 70 blanket is woven from machine twisted bristle coir twines, the best quality coir fiber. This 100% biodegradable, strong and durable blanket provide higher erosion resistance while supporting growth and development of vegetation. This semi-permanent mat has functional field longevity of 4-6 years. If the vegetation fails to establish, the open weave in the mat allows seeding over the mat. BioD-Mat[®] 70 blanket is manufactured to conform to the following physical properties.

Specifications

Property	Test Method	BioD-Mat [®] 70
Weight	ASTM D 3776	23 oz/SY (780 g/m ²)
Wide width tensile strength Wet Machine direction Cross direction	ASTM D 4595	1488 lbs./ft (21.7 kN/m) 1032 lbs./ft (15.1 kN/m)
Wide width tensile strength Dry Machine direction Cross direction	ASTM D 4595	1740 lbs./ft (25.4 kN/m) 1176 lbs./ft (17.2 kN/m)
Elongation at failure Wet Machine direction Cross direction	ASTM D 4595	38% 25%
Open area	Calculated	48%
Thickness	ASTM D 1777	0.35 inch (9 mm)
Recommended shear stress		4.5lbs./sq.ft.(215N/q.m.)
Recommended flow		12 fps (3.7m/s)
Recommend slope		1:1
Minimum twine count per foot MD x CD		27 x 18
Fiber type in twine		Brown bristle coir fiber

BioD-Mat[®] 70 is available in following roll sizes
3.28ft x 83ft (30SY) = 1m x 25m (25 sq. m)
6.5ft x 166ft (120SY) = 2m x 50m (100 sq. m)
9.8ft x 166ft (180SY) = 3m x 50m (150 sq. m)
13.1ft x 83ft (120SY) = 4m x 25m (100 sq. m)

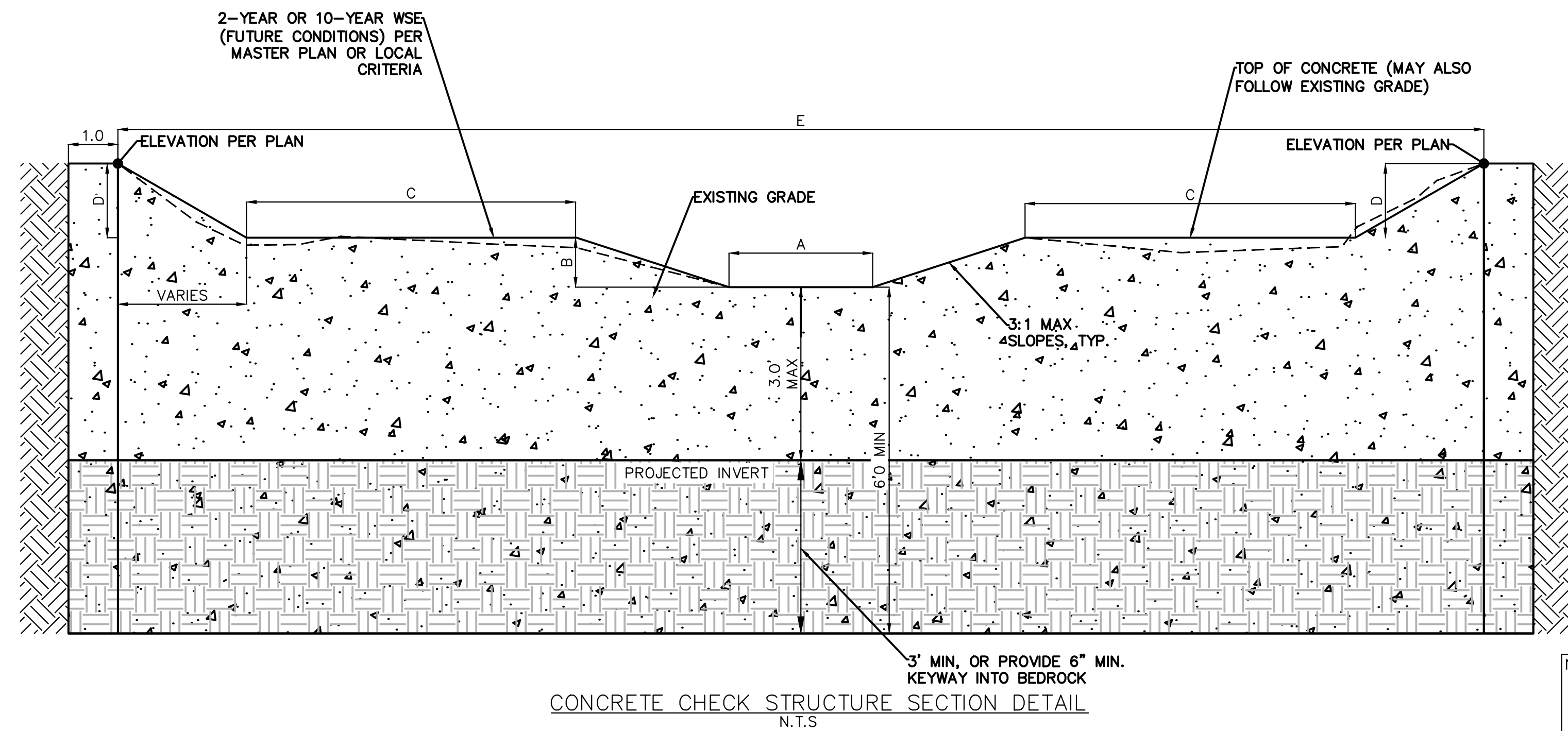


155 Andrew Drive, Stockbridge, GA 30281

COIR MAT (OR EQUIVELANT)
INSTALL PER PLANS

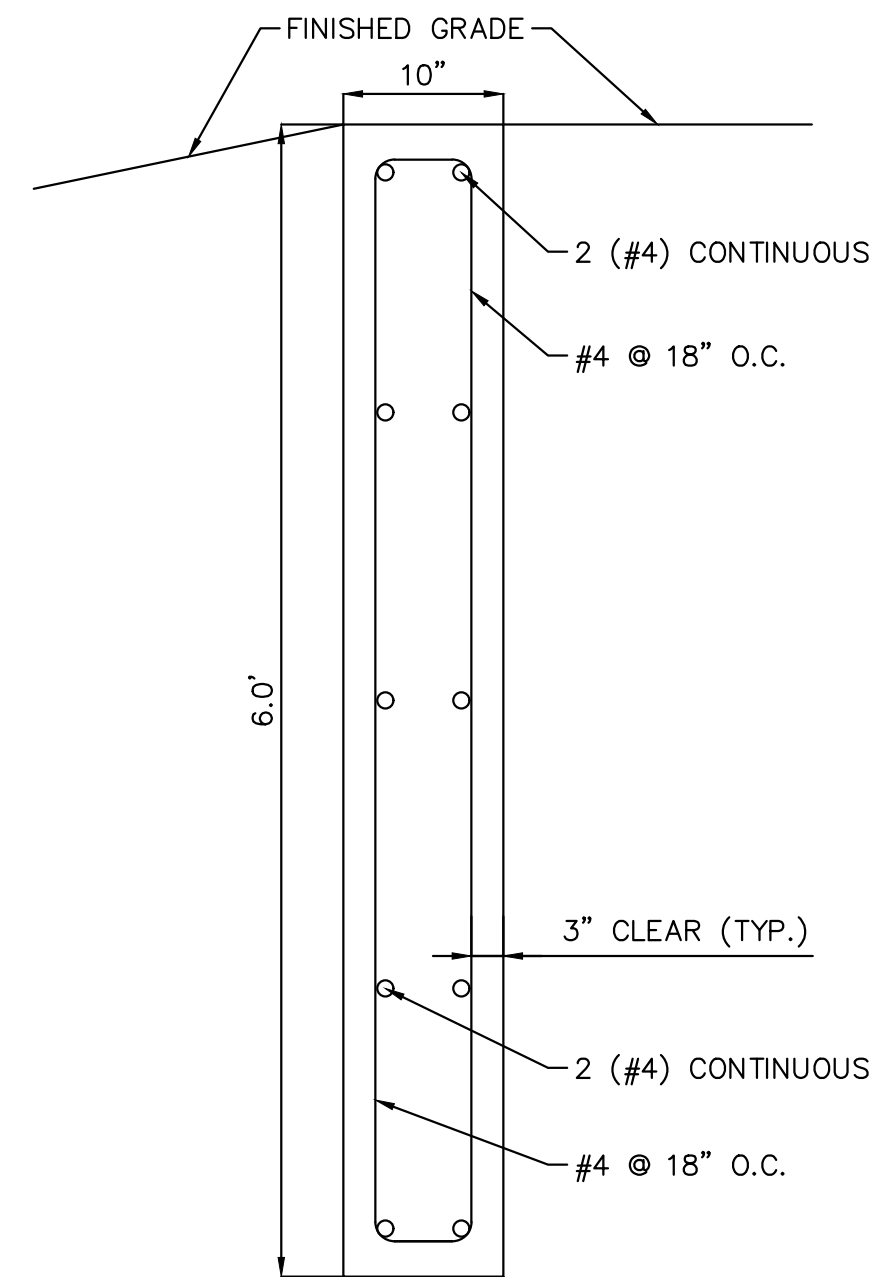
1 800 760 3215
Tel: 770 506 8211 Fax: 770 506 0391
E-mail: rolanka@rolanka.com
Web: www.rolanka.com

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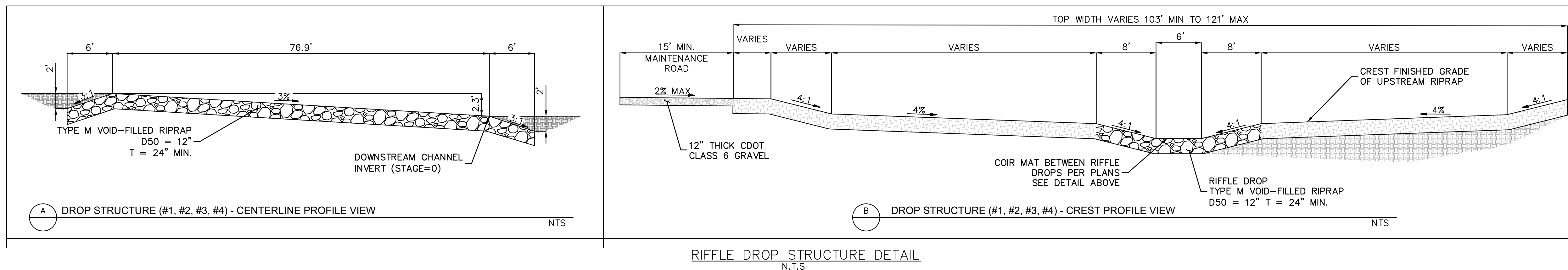
NOTES:

- TRENCH IN UNDISTURBED SOIL FORM TOP 6" OF CHECK. DO NOT OVER EXCAVATE TO FORM WALLS OF CONSTRUCT A FOOTING.
- THE STRUCTURE MAY BE COVERED WITH 6" OF SOIL OUTSIDE OF THE LOW FLOW AREA.
- VIBRATE CONCRETE INTO TRENCH.
- CONTRACTOR TO VERIFY EACH CHECK STRUCTURE LOCATION TO ENSURE CHECK STRUCTURE IS EMBEDDED INTO THE CHANNEL BANK ON EACH SIDE OF THE CHANNEL.



SECTION CREST WALL DETAIL
SCALE: 1" = 1'

CHECK STRUCTURE ID	DIMENSIONS (FT)				
	A	B	C	D	E
1	6	2	2.5	3.5	46.5
2	6	2	16.5	2	66
3	6	2	20.5	2	76
4	6	2	23.5	3	87.5
5	6	2	17	2.5	70.5
6	6	2	13.5	1.5	58.5
7	6	2	8.5	1.5	48.5
8	6	2	5.5	1.5	43.5
9	6	2	6	1.5	44
10	6	2	5	2	45.5



RIFLE DROP STRUCTURE DETAIL
N.T.S.

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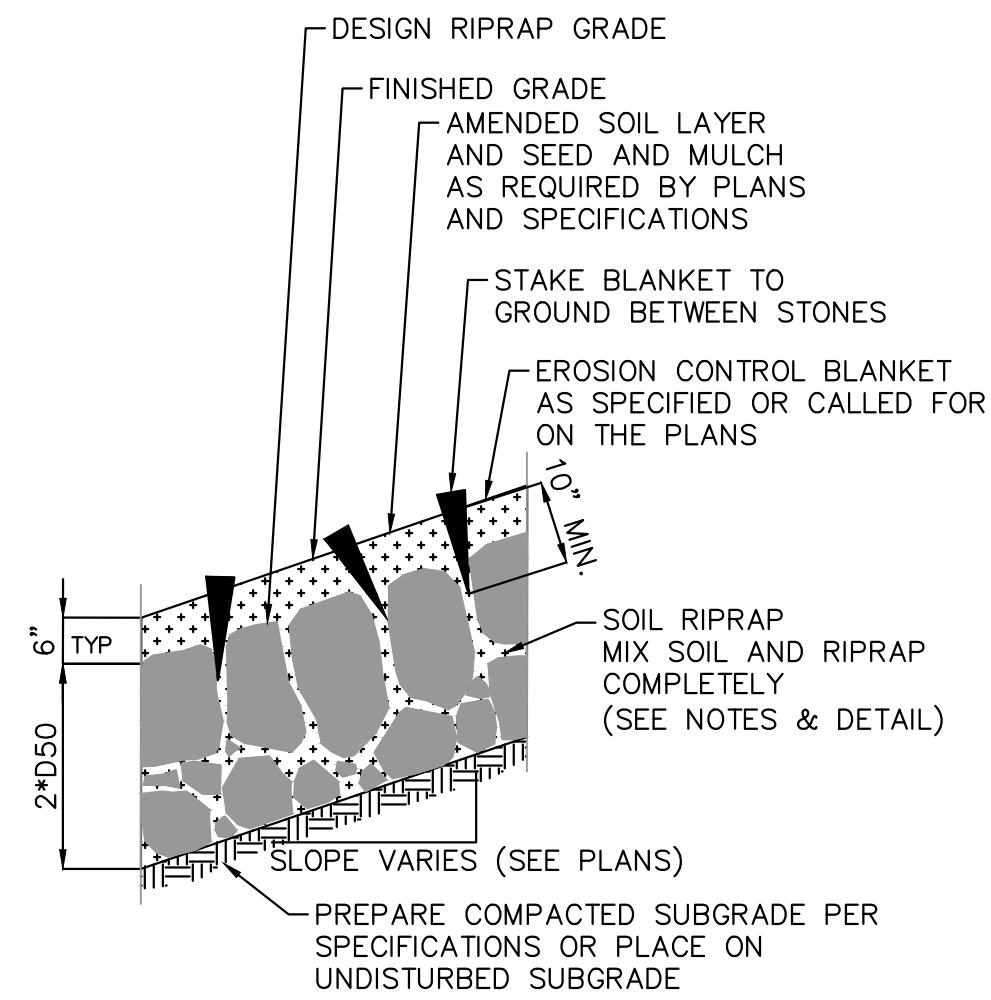
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CHANNEL STRUCTURES DETAIL

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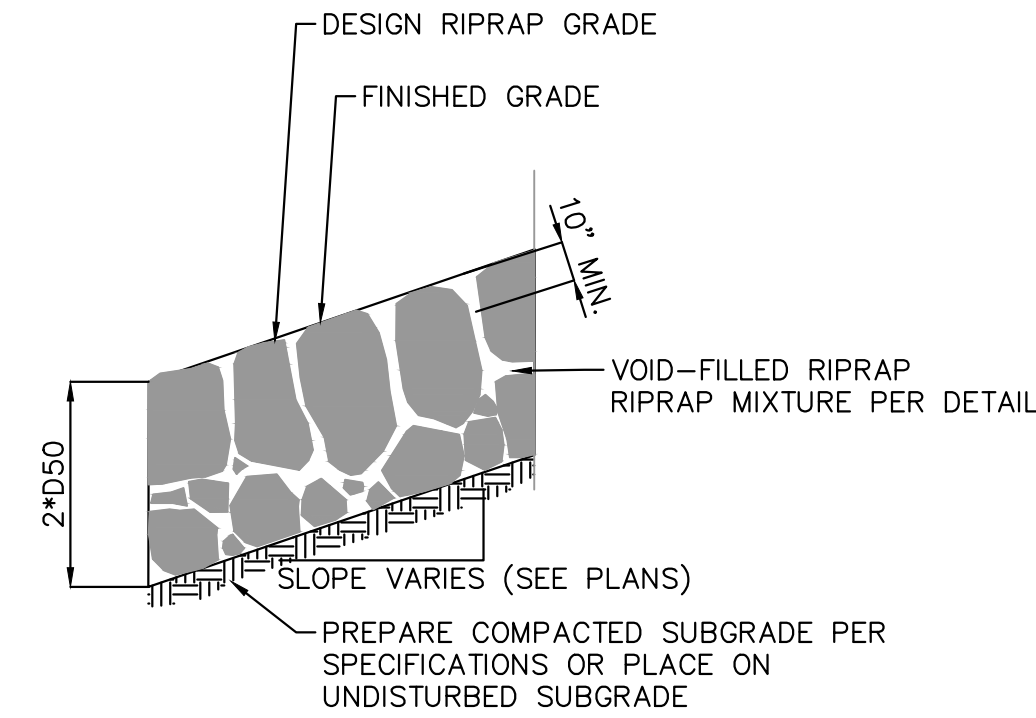
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SOIL RIPRAP DETAIL
N.T.S.

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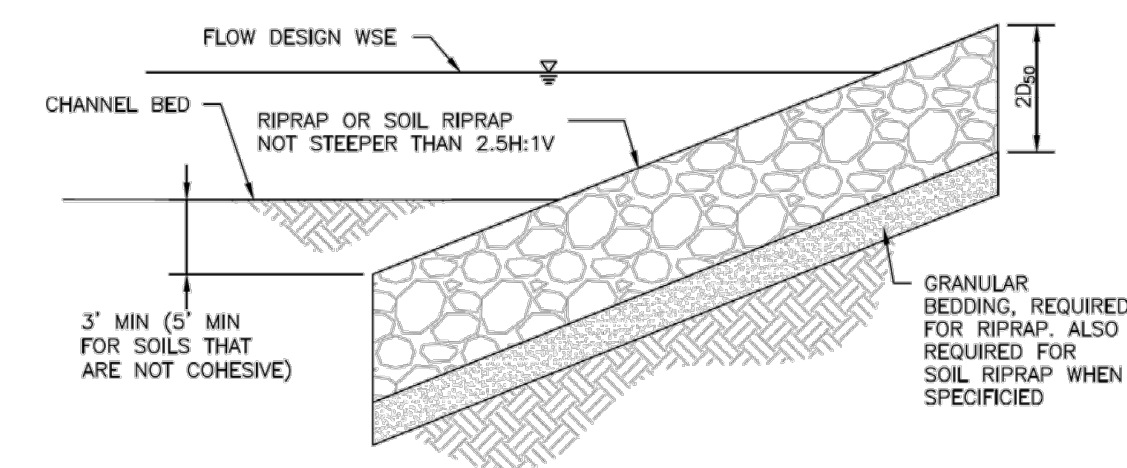
- SOIL RIPRAP DETAILS ARE APPLICABLE TO SLOPED AREAS. REFER TO THE SITE PLAN ACTUAL LOCATION AND LIMITS.
- MIX UNIFORMLY 65% RIPRAP BY VOLUME WITH 35% OF APPROVED SOIL BY VOLUME PRIOR TO PLACEMENT.



VOID-FILLED RIPRAP DETAIL
N.T.S.

NOTES:

- PLACE STONE-SOIL MIX TO RESULT IN SECURELY INTERLOCKED ROCK AT THE DESIGN THICKNESS AND GRADE. COMPACT AND LEVEL TO ELIMINATE ALL VOIDS AND ROCKS PROJECTING ABOVE DESIGN RIPRAP TOP GRADE.



RIPRAP DESIGNATION	% SMALLER THAN GIVEN SIZE BY WEIGHT	INTERMEDIATE ROCK DIMENSION (INCHES)	D ₅₀ * (INCHES)
TYPE VL	70 - 100	12	6
	50 - 70	9	
	35 - 50	6	
TYPE L	70 - 100	15	9
	50 - 70	12	
	35 - 50	9	
TYPE M	70 - 100	21	12
	50 - 70	18	
	35 - 50	12	
TYPE H	70 - 100	30	18
	50 - 70	24	
	35 - 50	18	
	2 - 10	6	

*D₅₀ = MEAN ROCK SIZE

Figure 8-34. Riprap and soil riprap placement and gradation (part 1 of 3)

SOIL RIPRAP NOTES:

- ELEVATION TOLERANCES FOR THE SOIL RIPRAP SHALL BE 0.10 FEET. THICKNESS OF SOIL RIPRAP SHALL BE NO LESS THAN THICKNESS SHOWN AND NO MORE THAN 2-INCHES GREATER THAN THE THICKNESS SHOWN.
- WHERE "SOIL RIPRAP" IS DESIGNATED ON THE CONTRACT DRAWINGS, RIPRAP VOIDS ARE TO BE FILLED WITH NATIVE SOIL. THE RIPRAP SHALL BE PRE-MIXED WITH THE NATIVE SOIL AT THE FOLLOWING PROPORTIONS BY VOLUME: 65PERCENT RIPRAP AND 35 PERCENT SOIL. THE SOIL USED FOR MIXING SHALL BE NATIVE TOPSOIL AND SHALL HAVE A MINIMUM FINES CONTENT OF 15 PERCENT. THE SOIL RIPRAP SHALL BE INSTALLED IN A MANNER THAT RESULTS IN A DENSE, INTERLOCKED LAYER OF RIPRAP WITH RIPRAP VOIDS FILLED COMPLETELY WITH SOIL. SEGREGATION OF MATERIALS SHALL BE AVOIDED AND IN NO CASE SHALL THE COMBINED MATERIAL CONSIST PRIMARILY OF SOIL. THE DENSITY AND INTERLOCKING NATURE OF RIPRAP IN THE MIXED MATERIAL SHALL ESSENTIALLY BE THE SAME AS IF THE RIPRAP WAS PLACED WITHOUT SOIL.
- WHERE SPECIFIED (TYPICALLY AS "BURIED SOIL RIPRAP"), A SURFACE LAYER OF TOPSOIL SHALL BE PLACED OVER THE SOIL RIPRAP ACCORDING TO THE THICKNESS SPECIFIED ON THE CONTRACT DRAWINGS. THE TOPSOIL SURFACE LAYER SHALL BE COMPACTED TO APPROXIMATELY 85% OF MAXIMUM DENSITY AND WITHIN TWO PERCENTAGE POINTS OF OPTIMUM MOISTURE IN ACCORDANCE WITH ASTM D698. TOPSOIL SHALL BE ADDED TO ANY AREAS THAT SETTLE.
- ALL SOIL RIPRAP THAT IS BURIED WITH TOPSOIL SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO ANY TOPSOIL PLACEMENT.

U.S. STANDARD SIEVE SIZE	GRADATION FOR GRANULAR BEDDING	
	PERCENT PASSING BY WEIGHT	
	TYPE I CDOT SECT. 703.01	TYPE II CDOT SECT. 703.09 CLASS A
3 INCHES	-	90 - 100
1½ INCHES	-	-
¾ INCHES	-	20 - 90
¾ INCHES	100	-
#4	95 - 100	0 - 20
#16	45 - 80	-
#50	10 - 30	-
#100	2 - 10	-
#200	0 - 2	0 - 3

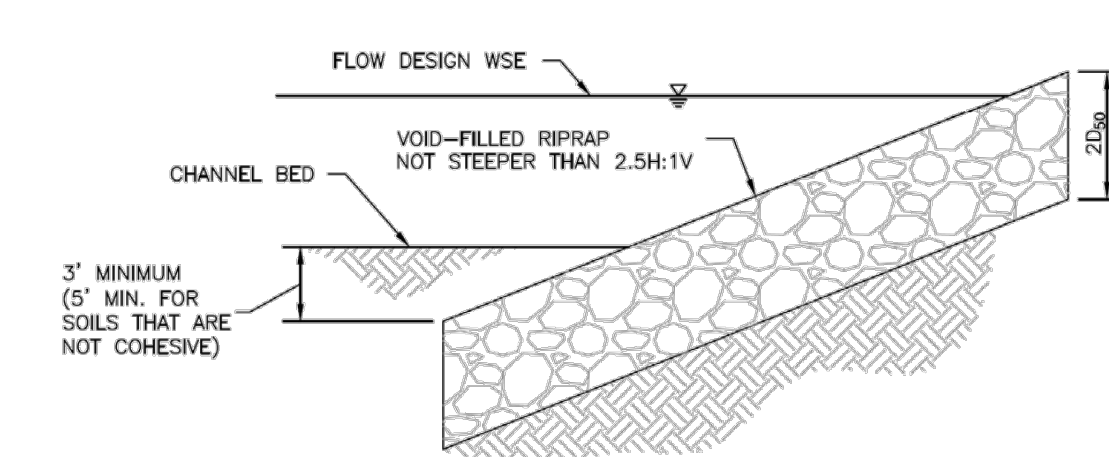
RIPRAP BEDDING

Figure 8-34. Riprap and soil riprap placement and gradation (part 2 of 3)

RIPRAP DESIGNATION	THICKNESS REQUIREMENTS FOR GRANULAR BEDDING		
	MINIMUM BEDDING THICKNESS (INCHES)		
	FINE-GRAINED SOILS 1		COARSE-GRAINED SOILS 2
	TYPE I (LOWER LAYER)	TYPE II (UPPER LAYER)	TYPE II
VL (D ₅₀ = 6 IN)	4	4	6
L (D ₅₀ = 9 IN)	4	4	6
M (D ₅₀ = 12 IN)	4	4	6
H (D ₅₀ = 18 IN)	4	6	8
VH (D ₅₀ = 24 IN)	4	6	8

- NOTES:
- MAY SUBSTITUTE ONE 12-INCH LAYER OF TYPE II BEDDING, THE SUBSTITUTION OF ONE LAYER OF TYPE II BEDDING SHALL NOT BE PERMITTED AT DROP STRUCTURES. THE USE OF A COMBINATION OF FILTER FABRIC AND TYPE II BEDDING AT DROP STRUCTURES IS ACCEPTABLE.
 - FIFTY PERCENT OR MORE BY WEIGHT RETAINED ON THE #40 SIEVE.

Figure 8-34. Riprap and soil riprap placement and gradation (part 3 of 3)



APPROPRIATE PROPORTIONS (BY VOLUME)	MATERIAL TYPE	MATERIAL DESCRIPTION
6 PARTS	RIPRAP	D ₅₀ = 6 INCH (TYPE VL) OR D ₅₀ = 9 INCH (TYPE L), SEE TABLE 3
1 PART	VOID-FILL MATERIAL	VTC (VEHICLE TRACKING CONTROL) ROCK (CRUSHED ROCK WITH 100% PASSING 4-INCH SIEVE, 50-70% PASSING 3-INCH SIEVE, 0-10% PASSING 2-INCH SIEVE)
1 PART	VOID-FILL MATERIAL	4-INCH MINUS PIT RUN SURGE (ROUND RIVER ROCK AND SAND, WELL GRADED, 90-100% PASSING 4-INCH SIEVE, 70-80% PASSING 1½-INCH SIEVE, 40-60% PASSING ¾-INCH SIEVE, 10-30% PASSING #16 SIEVE)
1 PART	VOID-FILL MATERIAL	TYPE II BEDDING (CRUSHED ROCK WITH 100% PASSING 3-INCH SIEVE, 20-90% PASSING ¾-INCH SIEVE, 0-20% PASSING #4 SIEVE, 0-3% PASSING #200 SIEVE)
½ TO 1 PART	VOID-FILL MATERIAL	NATIVE TOPSOIL

VOID-FILLED RIPRAP PLACEMENT AND GRADATION

Figure 8-35. Void-filled riprap placement and gradation (part 1 of 3)

APPROPRIATE PROPORTIONS (BY VOLUME)	MATERIAL TYPE	MATERIAL DESCRIPTION
6 PARTS	RIPRAP	D ₅₀ = 12-INCH (TYPE M) OR D ₅₀ = 18-INCH (TYPE H), SEE TABLE 3
2 PART	VOID-FILL MATERIAL	7-INCH MINUS CRUSHED ROCK SURGE (100% PASSING 7-INCH SIEVE, 80-100% PASSING 4-INCH SIEVE, 35-50% PASSING 3-INCH SIEVE, 10-20% PASSING 1½-INCH SIEVE)
1 PART	VOID-FILL MATERIAL	VTC (VEHICLE TRACKING CONTROL) ROCK (CRUSHED ROCK WITH 100% PASSING 4-INCH SIEVE, 50-70% PASSING 3-INCH SIEVE, 0-10% PASSING 2-INCH SIEVE)
1 PART	VOID-FILL MATERIAL	4-INCH MINUS PIT RUN SURGE (ROUND RIVER ROCK AND SAND, WELL GRADED, 90-100% PASSING 4-INCH SIEVE, 70-80% PASSING 1½-INCH SIEVE, 40-60% PASSING ¾-INCH SIEVE, 10-30% PASSING #16 SIEVE)
1 PART	VOID-FILL MATERIAL	TYPE II BEDDING (CRUSHED ROCK WITH 100% PASSING 3-INCH SIEVE, 20-90% PASSING ¾-INCH SIEVE, 0-20% PASSING #4 SIEVE, 0-3% PASSING #200 SIEVE)
½ TO 1 PART	VOID-FILL MATERIAL	NATIVE TOPSOIL

RIPRAP DESIGNATION	% SMALLER THAN GIVEN SIZE BY WEIGHT	INTERMEDIATE ROCK DIMENSION (INCHES)	D ₅₀ * (INCHES)
TYPE VL	70 - 100	12	6
	50 - 70	9	
	35 - 50	6	
TYPE L	70 - 100	15	9
	50 - 70	12	
	35 - 50	9	
TYPE M	70 - 100	21	12
	50 - 70	18	
	35 - 50	12	
TYPE H	70 - 100	30	18
	50 - 70	24	
	35 - 50	18	
	2 - 10	6	

*D₅₀ = MEAN ROCK SIZE

NOTE: MIX ON SITE AND PRIOR TO PLACEMENT

Figure 8-35. Void-filled riprap placement and gradation (part 2 of 3)

VOID-FILLED RIPRAP PLACEMENT AND GRADATION NOTES:

- WHERE "VOID-FILLED RIPRAP" IS DESIGNATED ON THE CONTRACT DRAWINGS, RIPRAP SHALL BE MIXED WITH THE MATERIALS AND ASSOCIATED PROPORTIONS LISTED IN TABLE 1 OR TABLE 2 TO FILL THE VOIDS OF THE RIPRAP.
- THE MIX PROPORTIONS PROVIDED IN TABLE 1 AND TABLE 2 ARE APPROXIMATE AND ARE SUBJECT TO ADJUSTMENT BY THE ENGINEER.
- THE RIPRAP AND VOID-FILLED MATERIALS SHALL BE STOCKPILED SEPARATELY AND THOROUGHLY MIXED PRIOR TO PLACEMENT AND SHALL BE INSTALLED AND COMPACTED SO THAT A DENSE, INTERLOCKED LAYER OF RIPRAP AND VOID-FILL MATERIAL IS PROVIDED WITH RIPRAP VOIDS COMPLETELY FILLED. THE LOOSE MATERIAL SHALL BE PLACED IN A SINGLE LIFT OF SUFFICIENT HEIGHT SUCH THAT FINAL GRADE WILL BE ACHIEVED UPON COMPACTED. IF THE COMPACTED MATERIAL IS BELOW FINAL GRADE, PLACEMENT OF ONLY THE SMALLER VOID-FILL MATERIAL TO ACHIEVE FINAL GRADE IS NOT PERMITTED. IN SUCH CASES IT IS NECESSARY TO ADD MORE STANDARD SIZED VOID-FILLED RIPRAP AND REMIX THE ENTIRE THICKNESS OF ROCK TO ACHIEVE THE DESIGN SECTION. SEGREGATION OF MATERIALS SHALL BE AVOIDED AND IN NO CASE SHALL THE COMBINED MATERIAL CONSIST PRIMARILY OF THE VOID-FILL MATERIALS. THE DENSITY AND INTERLOCKING NATURE OF RIPRAP IN THE MIXED MATERIAL SHALL ESSENTIALLY BE THE SAME AS IF THE RIPRAP WAS PLACED WITHOUT FILLING THE VOIDS.
- COMPACTION OF THE VOID-FILLED RIPRAP SHALL BE PERFORMED BY WHEEL ROLLING WITH HEAVY RUBBER-TIRED EQUIPMENT (E.G. FRONT END LOADER). THE MOISTURE CONTENT OF THE MIXTURE SHALL BE AT OPTIMUM CONDITIONS PRIOR TO COMPACTION AND WATER SHALL BE ADDED, AS NECESSARY, AT THE DIRECTION OF THE ENGINEER.
- WHERE INDICATED ON THE DRAWINGS, A SURFACE LAYER OF MOIST TOPSOIL SHALL BE PLACED OVER THE VOID-FILLED RIPRAP. THE TOPSOIL SURFACE LAYER SHALL BE COMPACTED TO APPROXIMATELY 85% OF MAXIMUM DENSITY AND WITHIN TWO PERCENTAGE POINTS OF OPTIMUM MOISTURE IN ACCORDANCE WITH ASTM D698. TOPSOIL SHALL BE ADDED TO ANY AREAS THAT SETTLE.
- ALL VOID-FILLED RIPRAP THAT IS BURIED WITH TOPSOIL SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO ANY TOPSOIL PLACEMENT.

Figure 8-35. Void-filled riprap placement and gradation (part 3 of 3)

NO.	REVISION	BY	DATE	APPR.

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DRAWN BY: MJK
CHECKED BY: KKK
DATE: 04/04/2024

EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
RIPRAP DETAILS

PRELIMINARY
FOR REVIEW ONLY
NOT FOR CONSTRUCTION
Kimley»Horn
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PROJECT NO.
196106001

SHEET
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