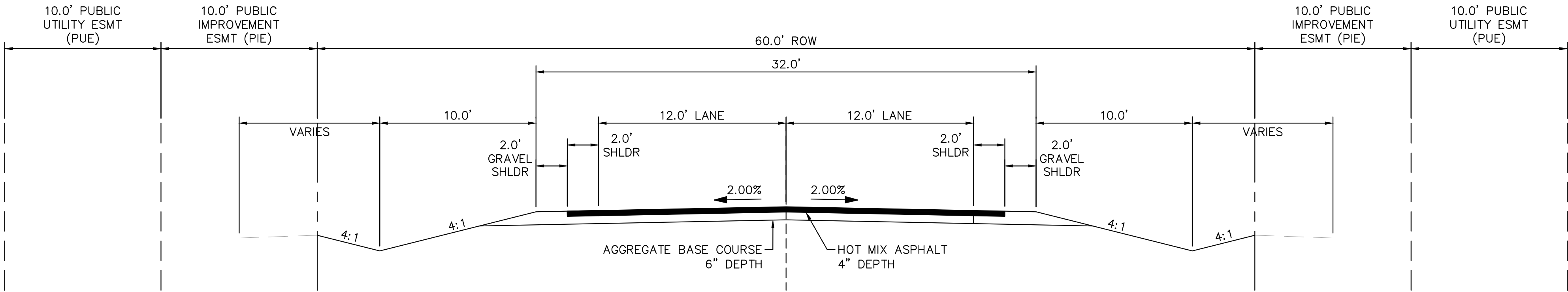




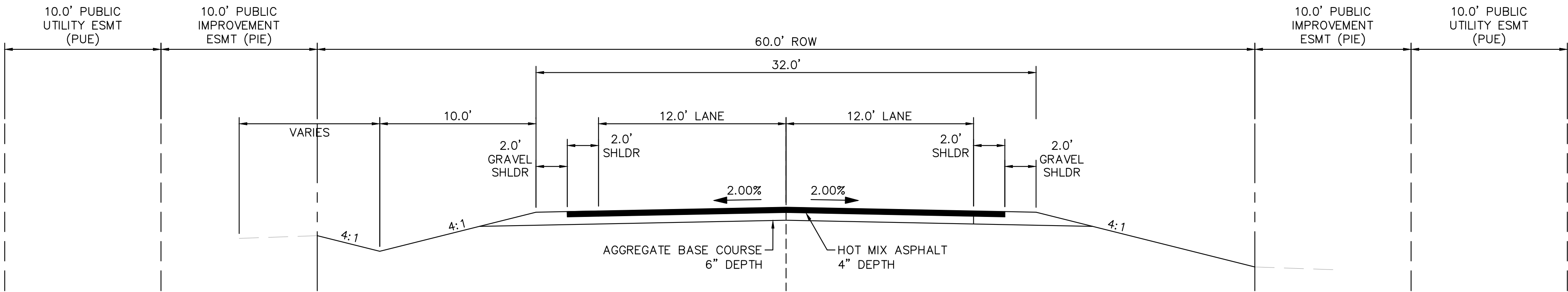


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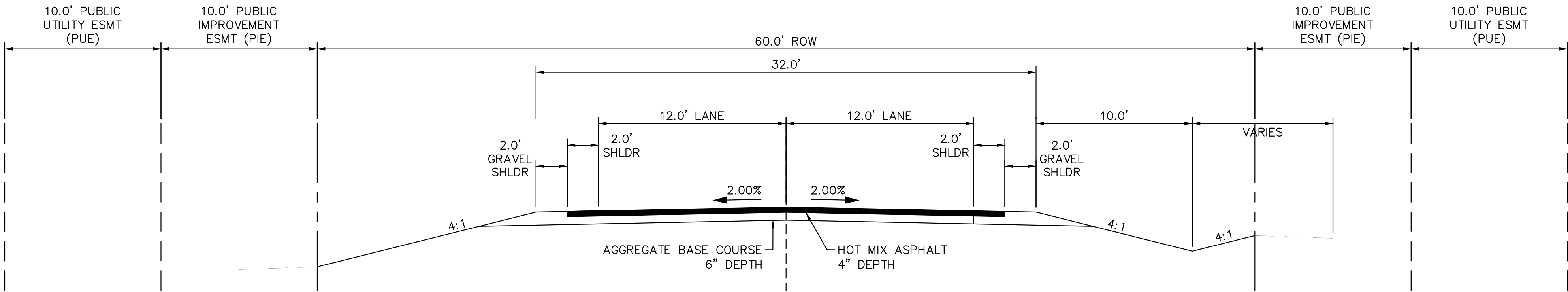
ON-SITE ROADWAY TYPICAL SECTIONS



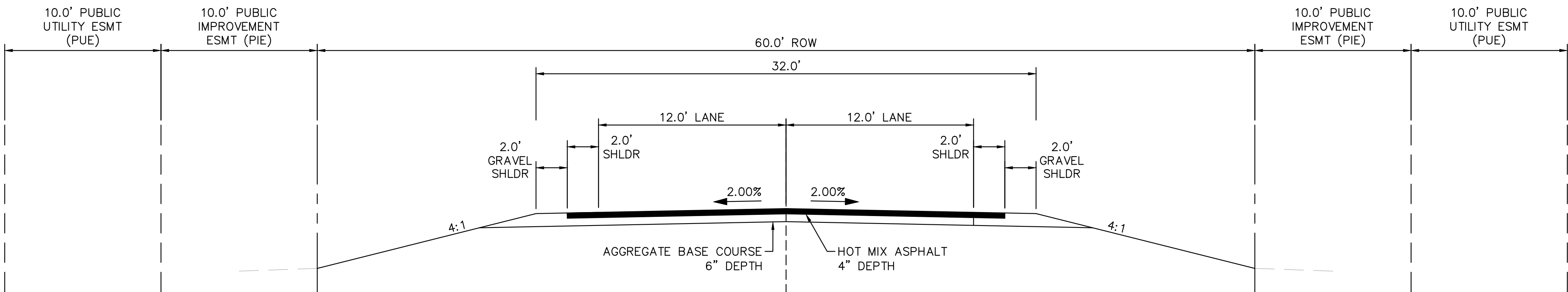
(A) RURAL LOCAL ROADWAY – ROADSIDE DITCH: LEFT AND RIGHT  
SCALE: 1" = 5'



(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'

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

**Kimley»Horn**  
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DRAWN BY: MJK  
CHECKED BY: KRK  
DATE: 9/17/2024

EAGLEVIEW  
EL PASO COUNTY, COLORADO  
CONSTRUCTION DOCUMENTS  
TYPICAL SECTIONS



PROJECT NO.  
196106001  
SHEET

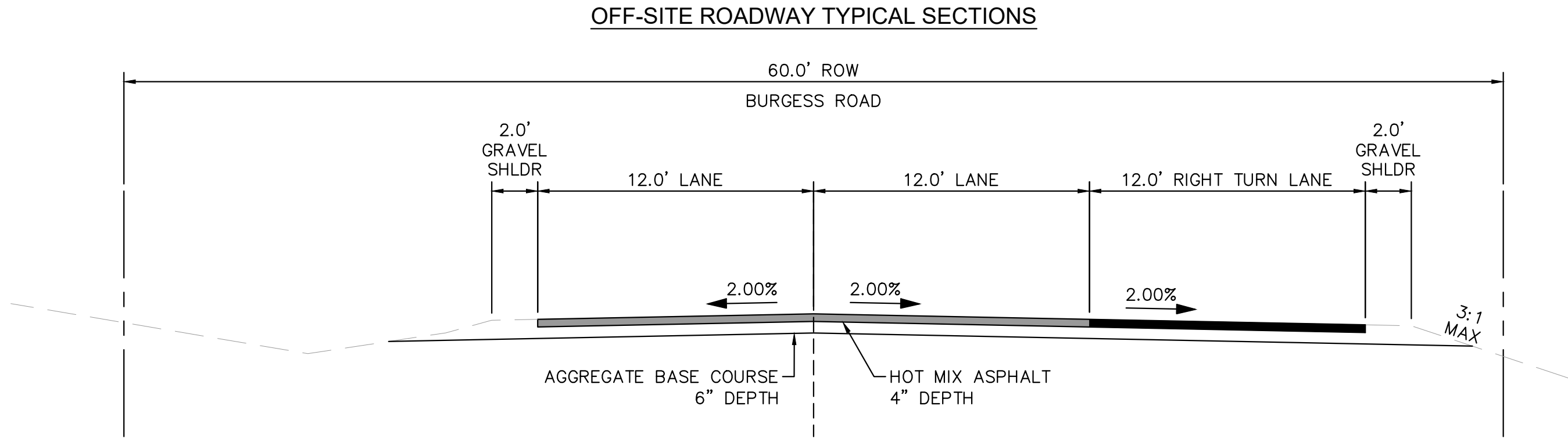
C1.1



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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.

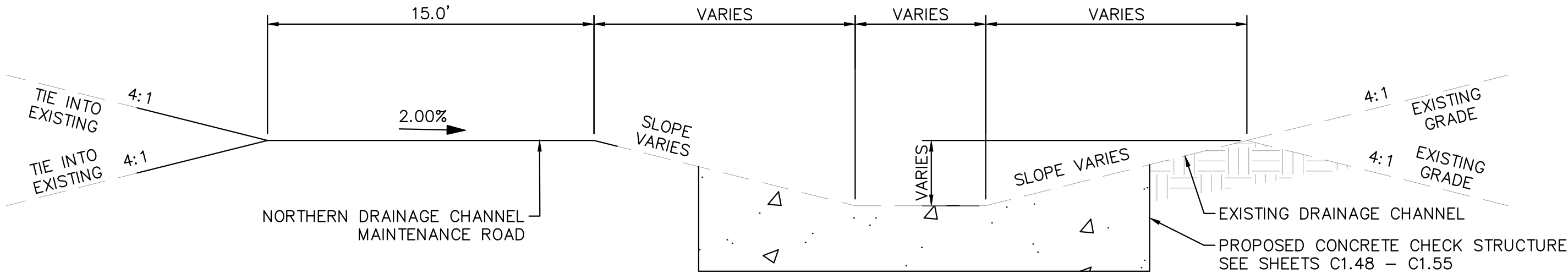


(F) PROPOSED BURGESS ROAD R-H TURN LANE  
SCALE: 1" = 5'

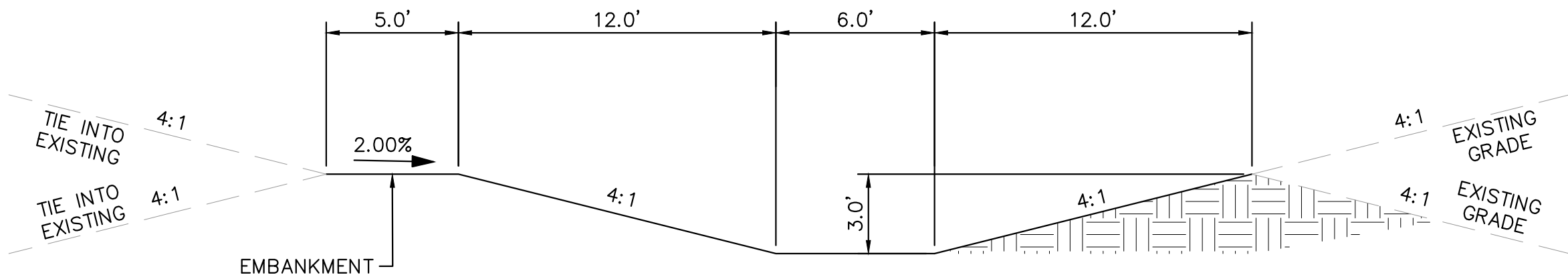
STA 4+10.50 - 6+22.00

ROADWAY CLASSIFICATION	BURGESS ROAD	RAYGOR ROAD
	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



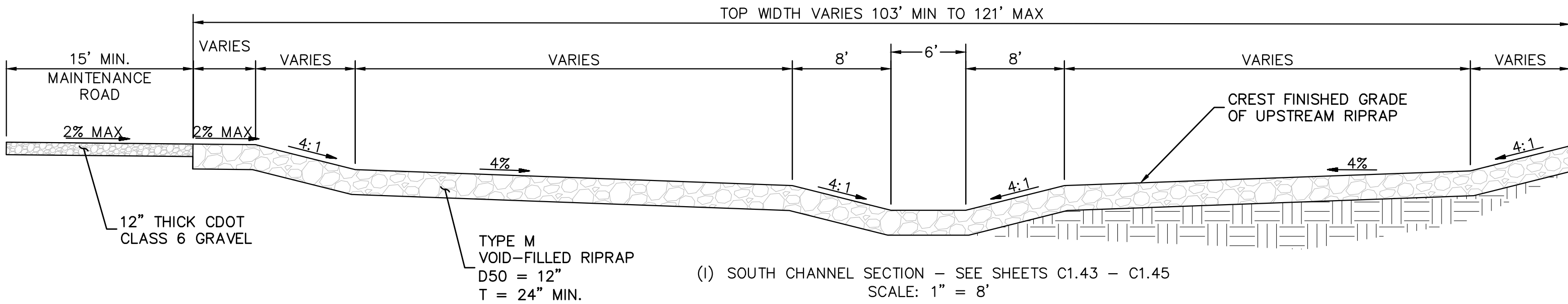
(G) NORTH CHANNEL SECTION - SEE SHEETS C1.48 - C1.52  
SCALE: 1" = 5'



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

NOTE

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



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

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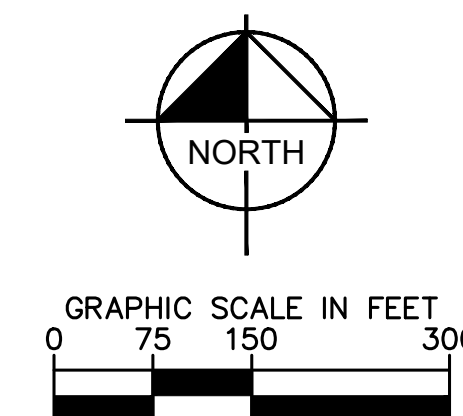
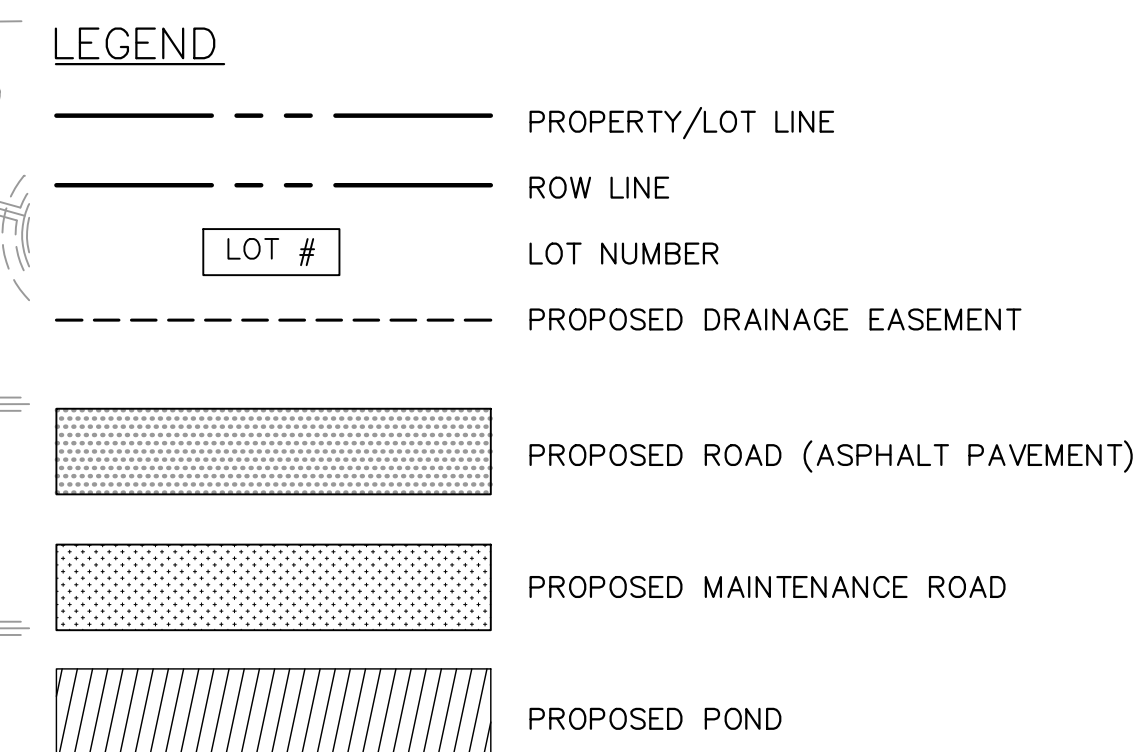
EAGLEVIEW  
EL PASO COUNTY, COLORADO  
CONSTRUCTION DOCUMENTS  
TYPICAL SECTIONS



PROJECT NO.  
196106001  
SHEET

C1.2

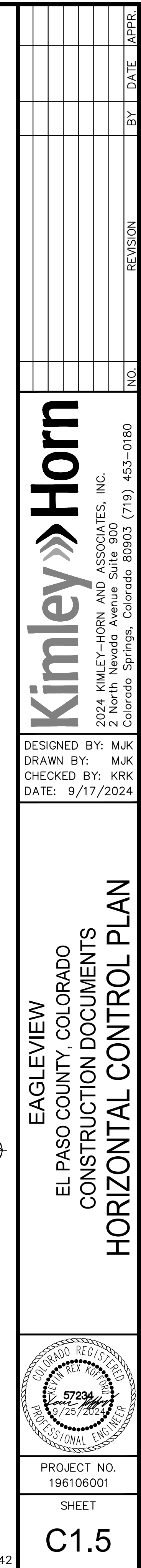


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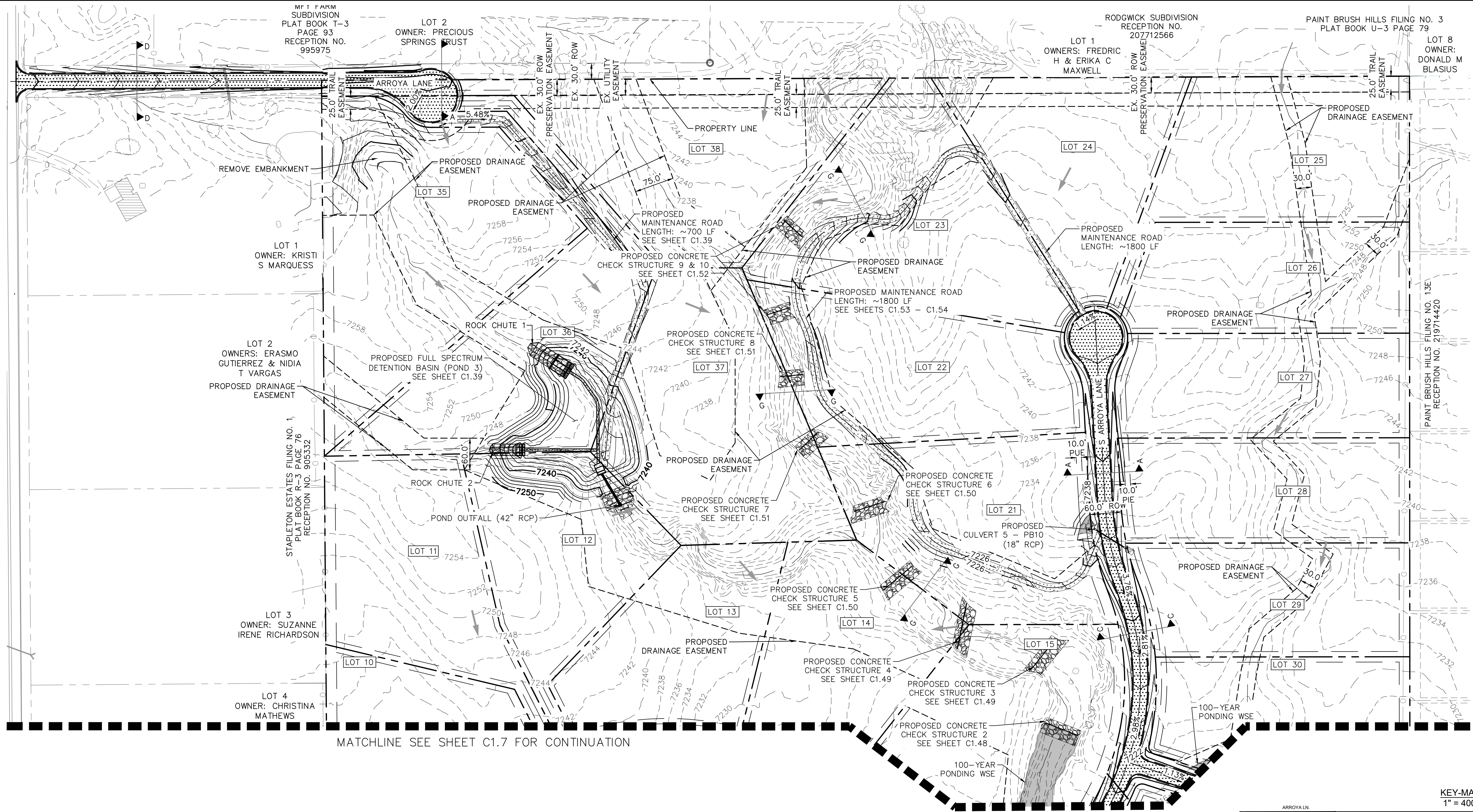
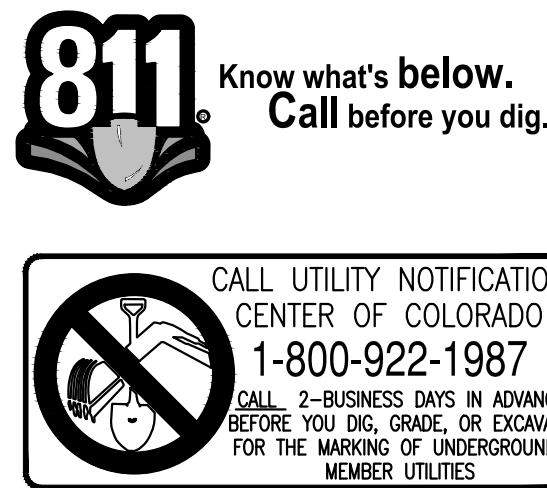




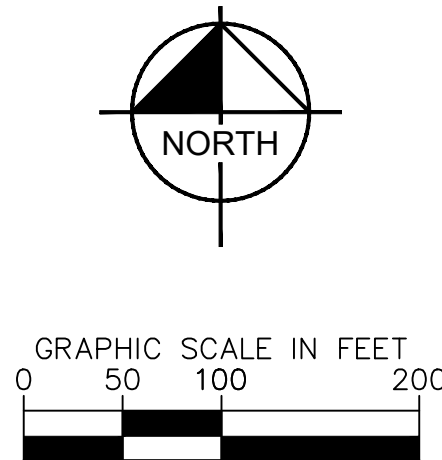




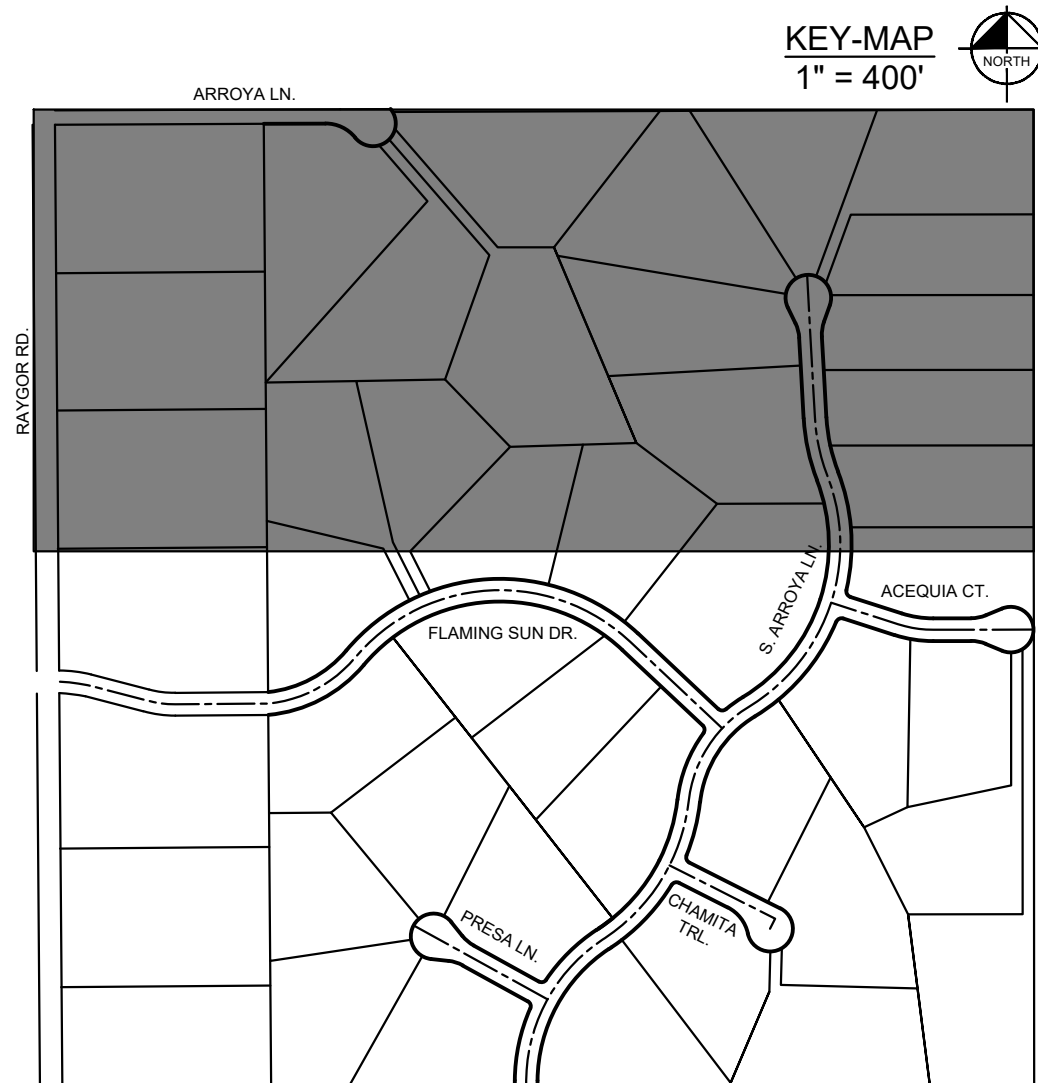
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MATCHLINE SEE SHEET C1.7 FOR CONTINUATION



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



PCD FILE #: SF-22-42

NO.	REVISION	BY	DATE	APPR

**Kimley»Horn**  
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DATE: 9/17/2024

EAGLEVIEW  
EL PASO COUNTY, COLORADO  
CONSTRUCTION DOCUMENTS  
GRADING PLAN



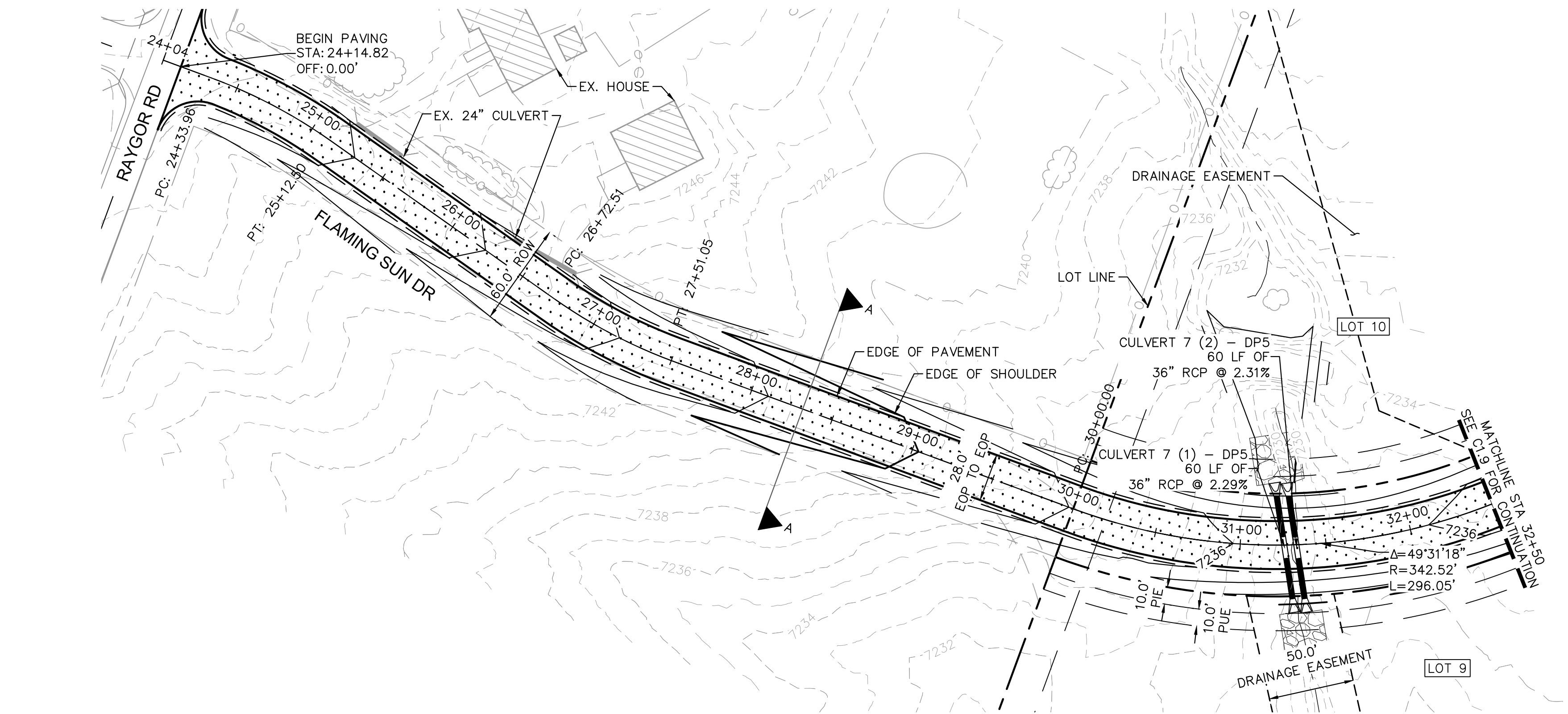
PROJECT NO.  
196106001  
SHEET  
**C1.6**



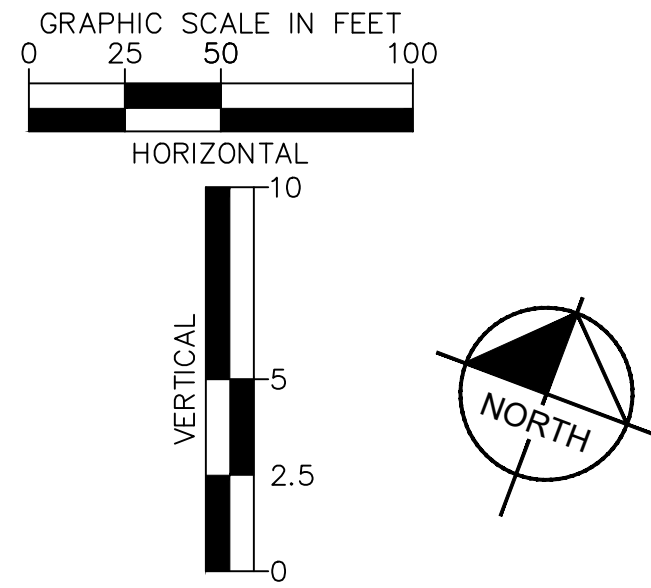
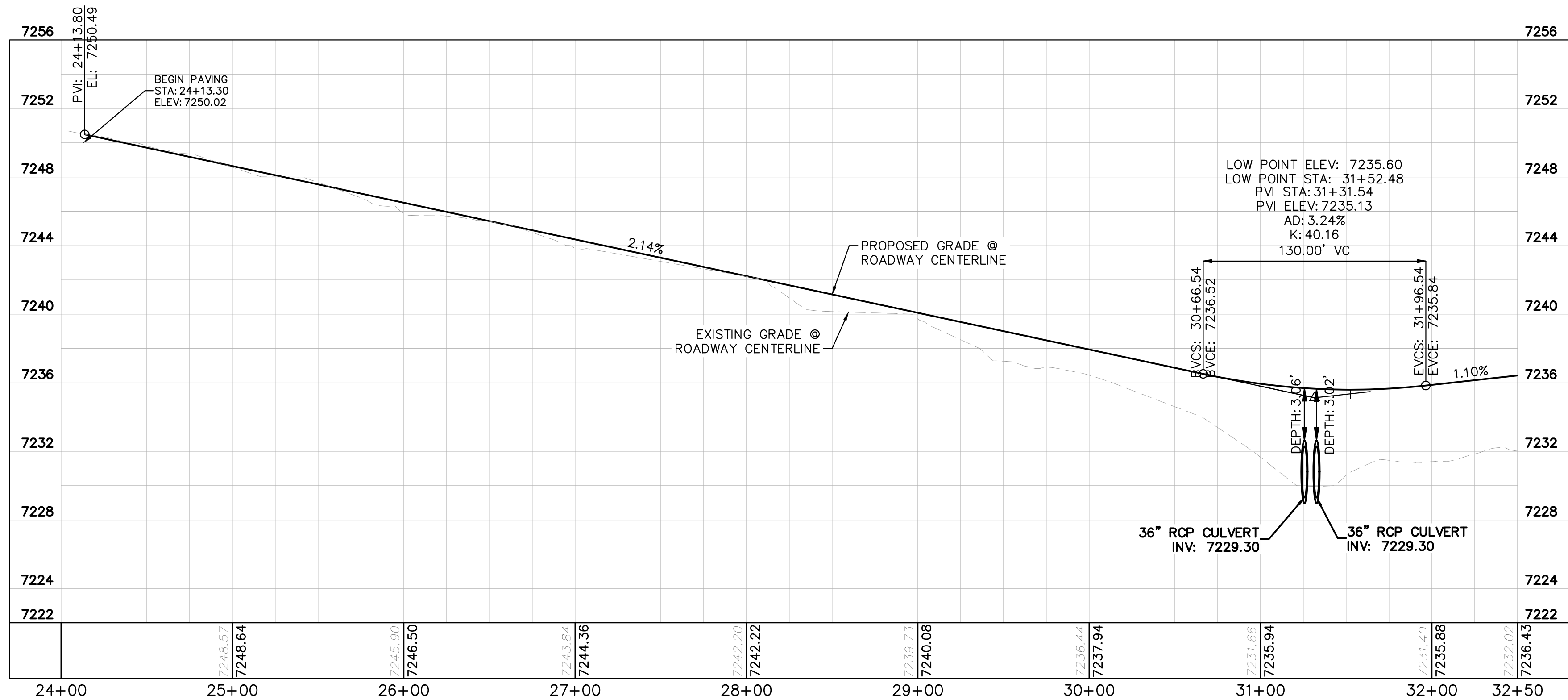




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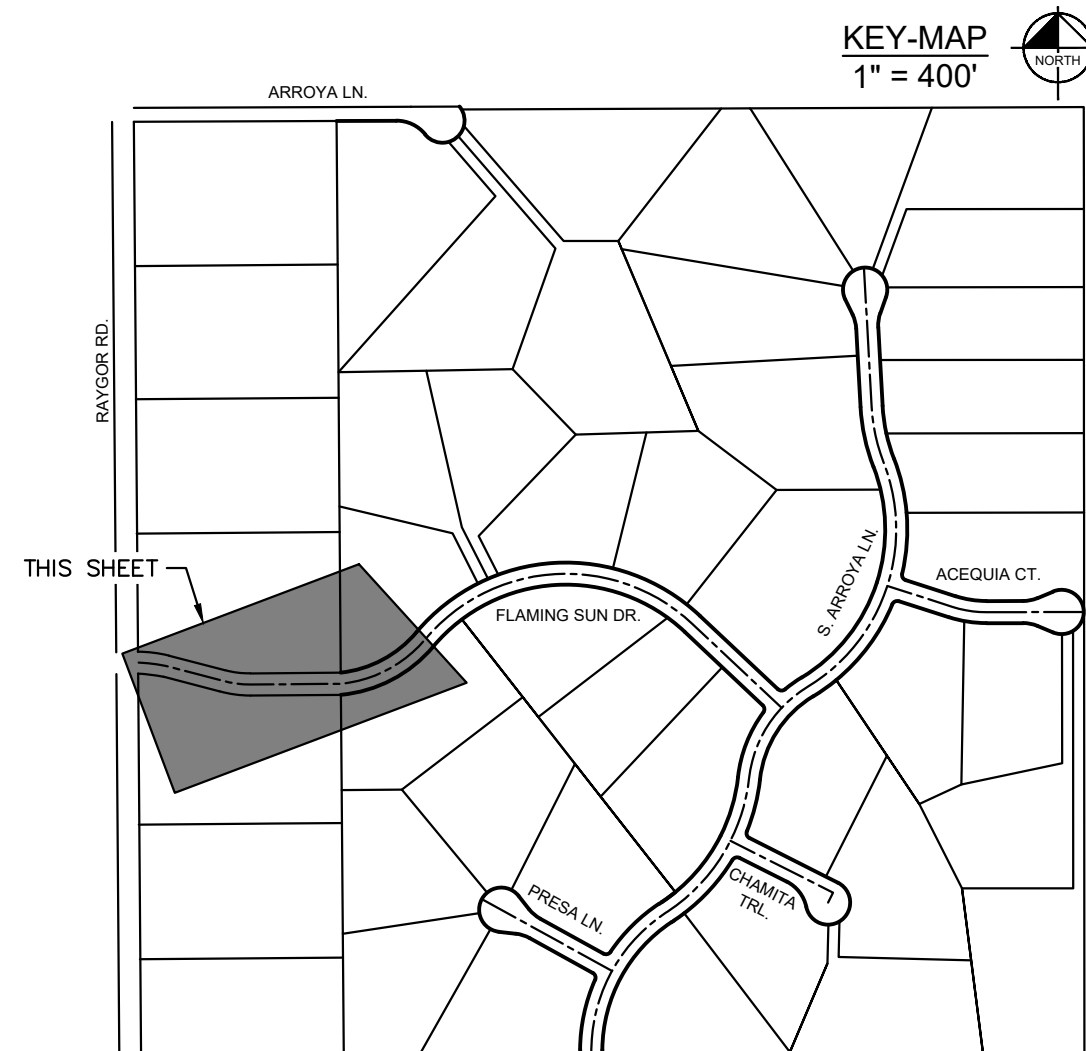
FLAMING SUN DR. PROFILE  
STA: 24+00 TO 32+50



- LEGEND
- PROPERTY/LOT LINE
  - ROW LINE
  - UTILITY EASEMENT LINE
  - LOT #
  - PROPOSED DRAINAGE EASEMENT
  - CROSS SECTION (SEE SHEET C1.1)
  - PROPOSED CULVERT
  - EXISTING CULVERT
  - EXISTING MAJOR CONTOUR
  - EXISTING MINOR CONTOUR
  - PROPOSED MAJOR CONTOUR
  - PROPOSED MINOR CONTOUR
  - PROPOSED EDGE OF PAVEMENT
  - PROPOSED EDGE OF SHOULDER
  - 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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EAGLEVIEW  
EL PASO COUNTY, COLORADO  
CONSTRUCTION DOCUMENTS  
FLAMING SUN DR. PLAN & PROFILE



PROJECT NO.  
196106001

SHEET

C1.8

GRAPHIC SCALE IN FEET  
0 25 50 100  
HORIZONTAL  
VERTICAL  
10  
5  
2.5  
0  
NORTH

LEGEND

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

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

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

7252  
7248  
7244  
7240  
7236  
7232  
7228  
7224  
7220

PROPOSED GRADE  
EXISTING GRADE

1.10%  
3.34%

HIGH POINT ELEV: 7239.94  
HIGH POINT STA: 35+87.13  
PVI STA: 36+21.25  
PVI ELEV: 7240.50  
AD: 4.44%  
K: 30.43  
135.00' VC

BVCS: 35+53.75  
BVCE: 7239.76  
EVCS: 36+88.75  
EVCE: 7236.25

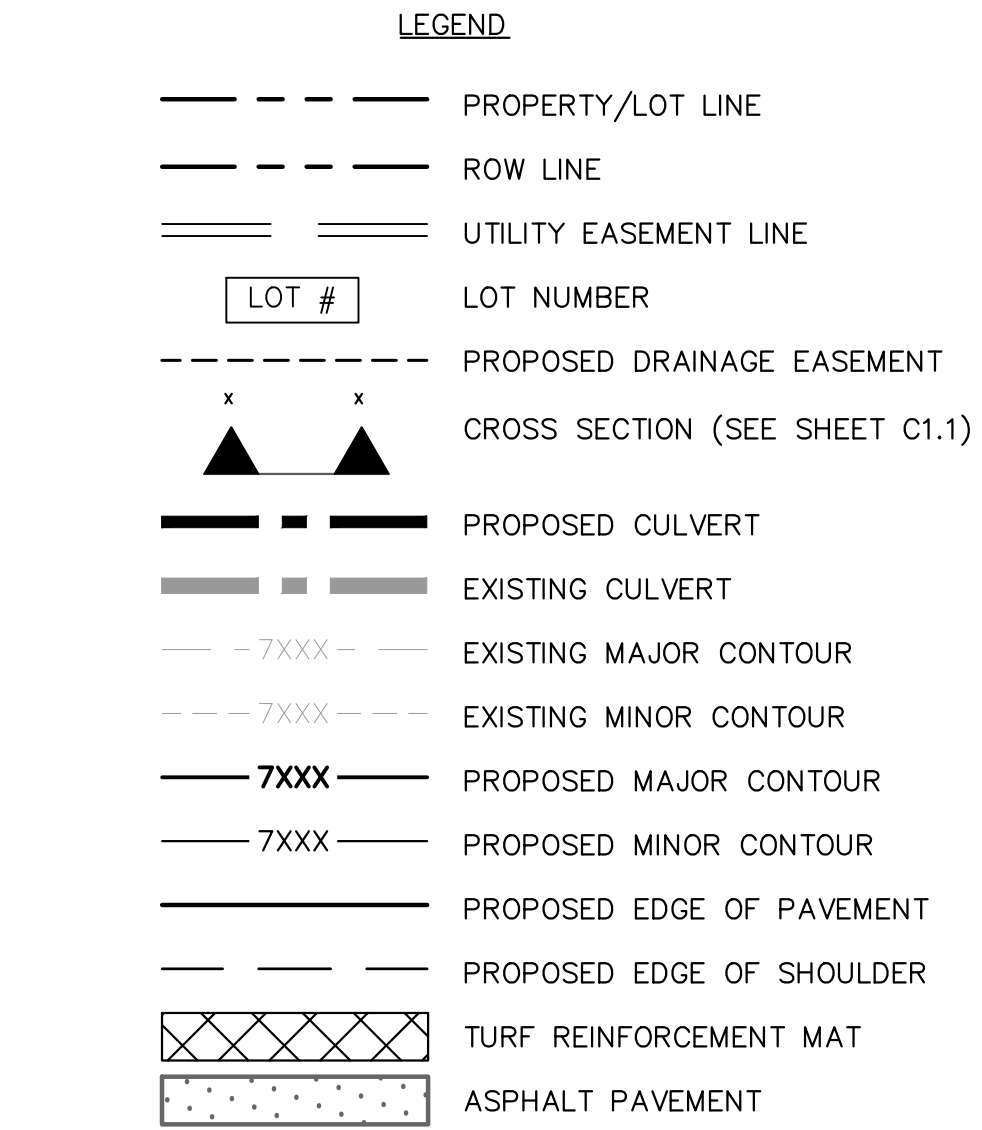
32+50 33+00 34+00 35+00 36+00 37+00 38+00 38+50

7237.02 7236.43 7236.65 7236.98 7236.24 7238.07 7237.65 7239.17 7236.65 7239.92 7236.65 7237.87 7237.02 7234.53 7227.30 7232.86

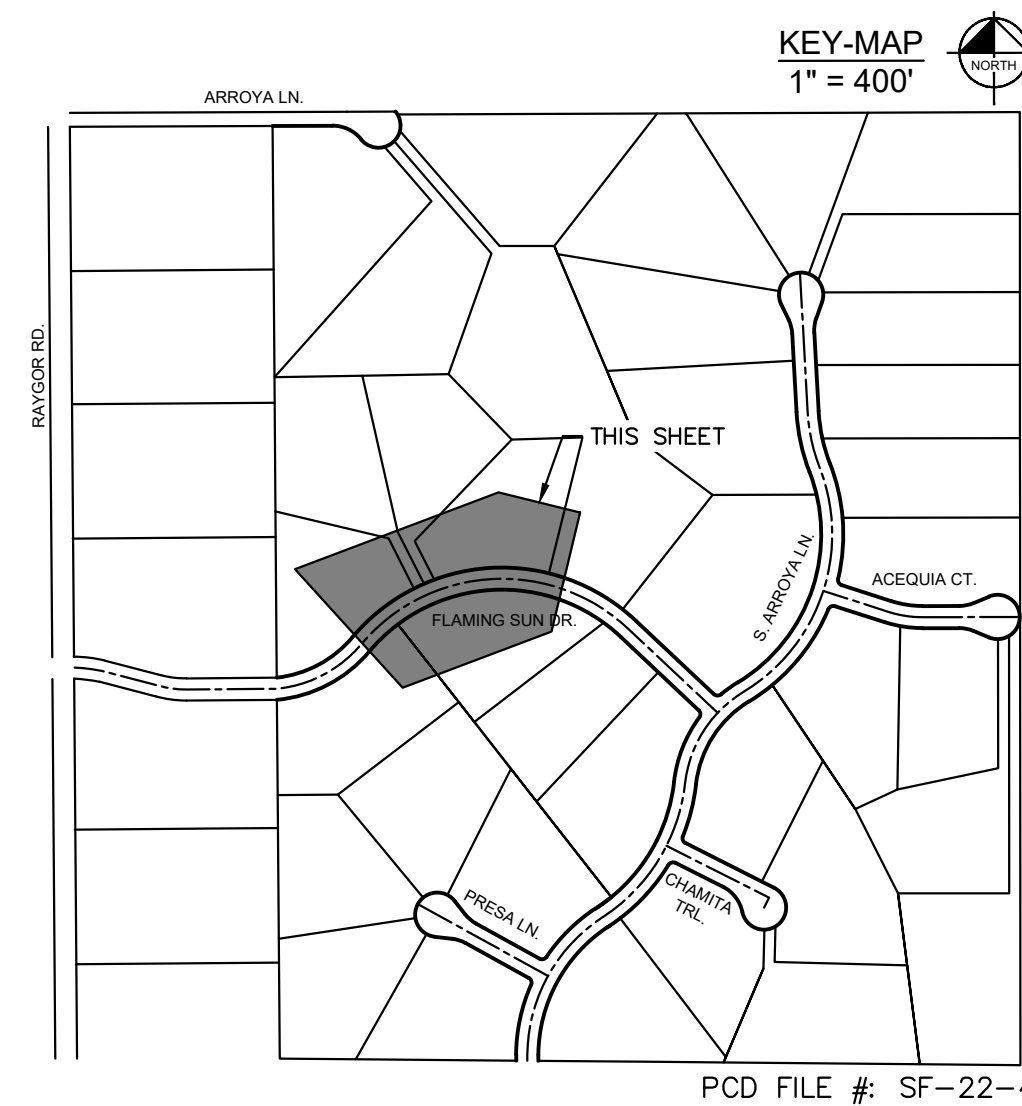
KEY-MAP  
1" = 400'

ARROYA LN  
BAYSHORE RD  
ACEQUIA CT  
CHAMITA TRL  
PECOS LN  
THIS SHEET  
FLAMING SUN DR

PCD FILE #: SF-22-42

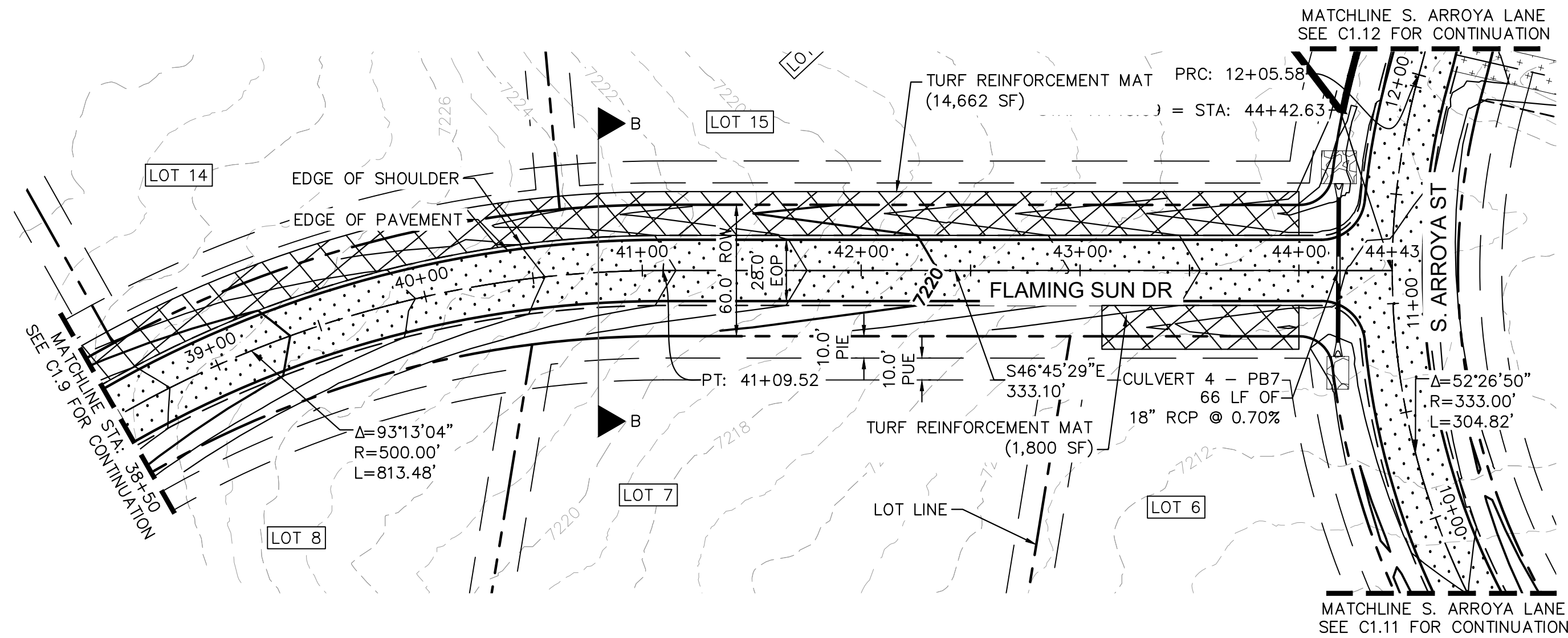


- ## NOTES
1. SEE SHEET C1.1 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.
  2. PIE = PUBLIC IMPROVEMENT EASEMENT
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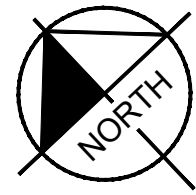
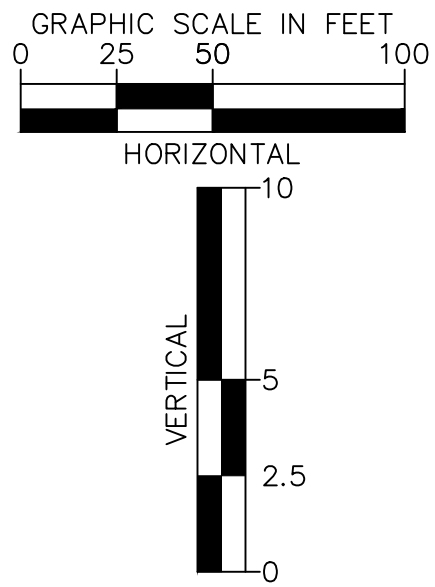
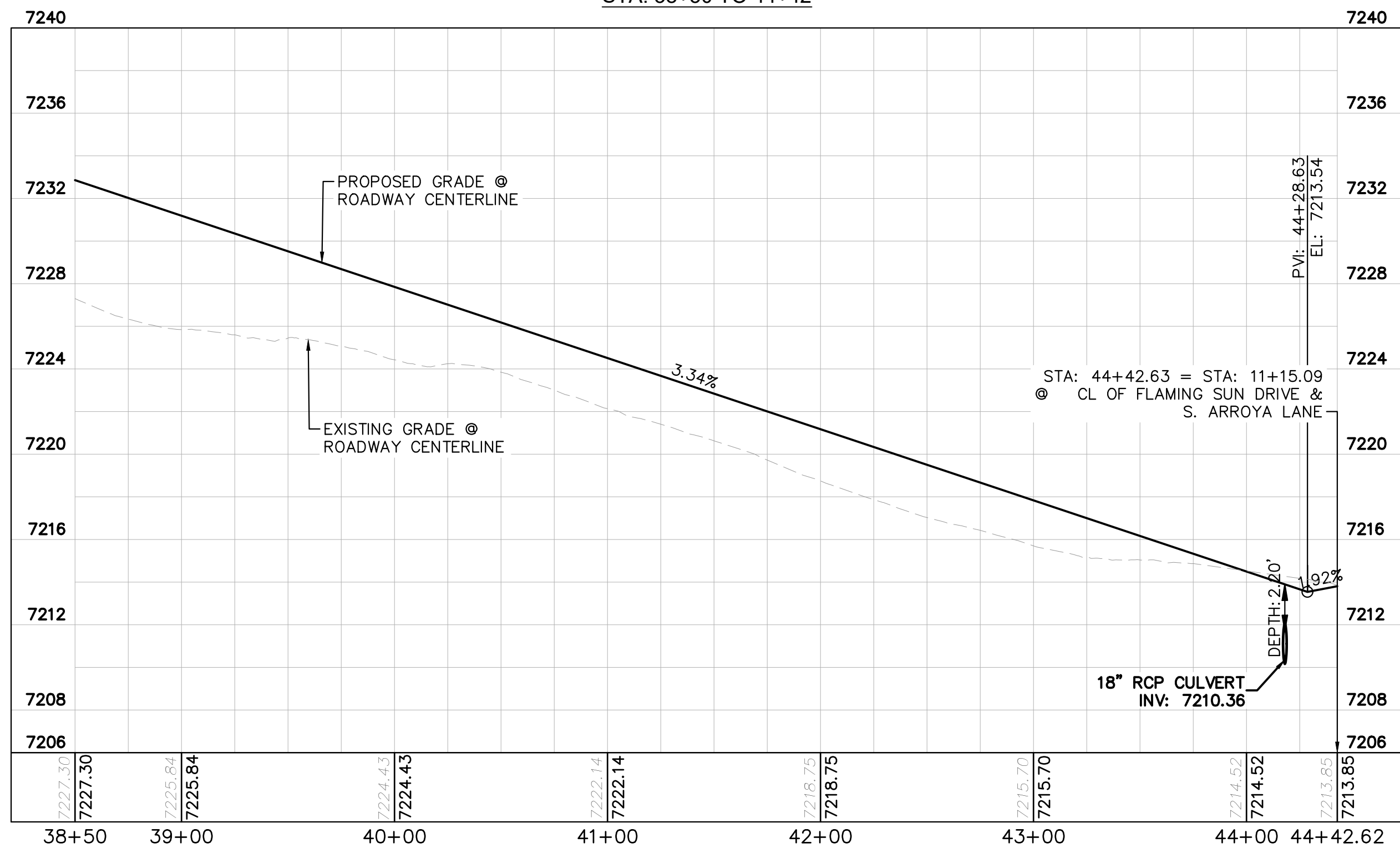
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FLAMING SUN DR. PROFILE  
STA: 38+50 TO 44+42

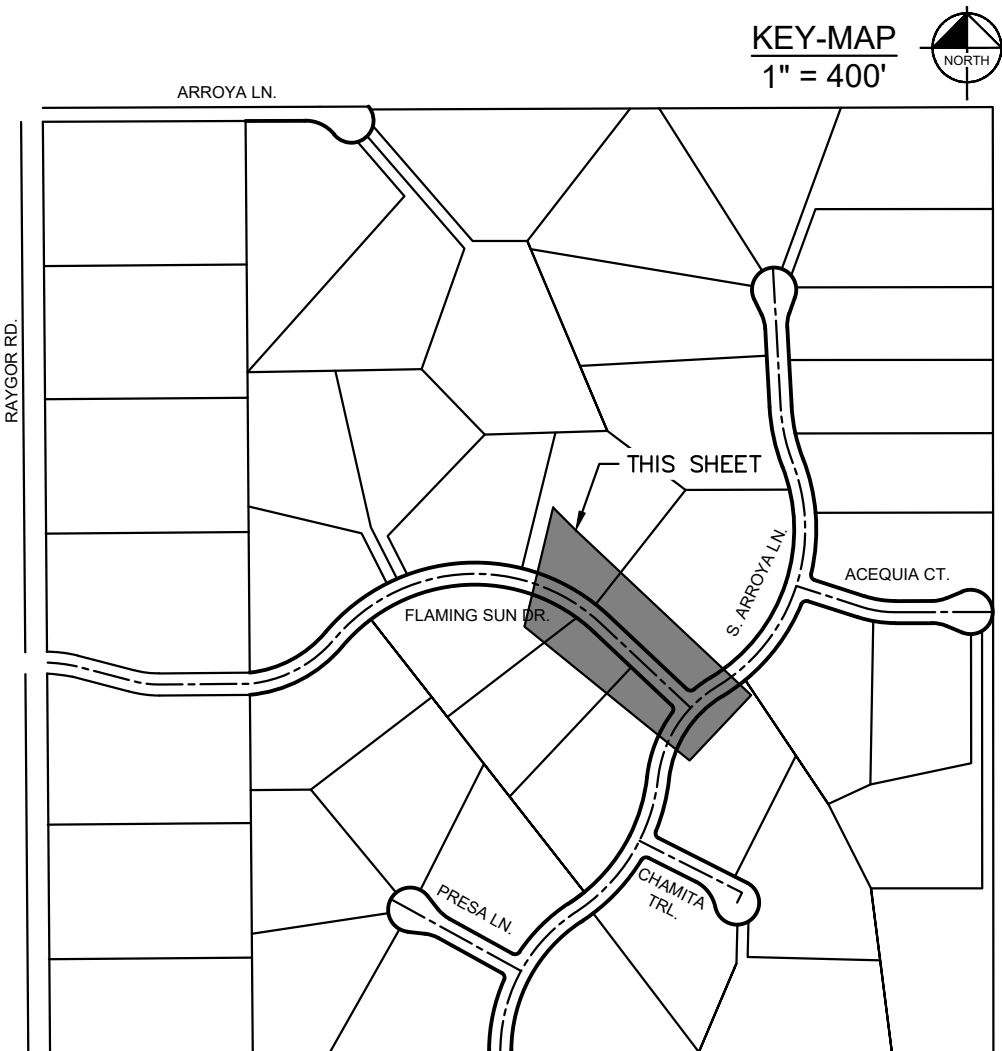


LEGEND

- PROPERTY/LOT LINE
- ROW LINE
- UTILITY EASEMENT LINE
- LOT #
- 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
- 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
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EAGLEVIEW  
EL PASO COUNTY, COLORADO  
CONSTRUCTION DOCUMENTS  
FLAMING SUN DR. PLAN & PROFILE



PROJECT NO.  
196106001

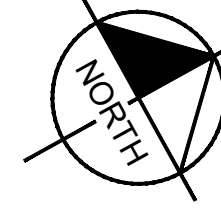
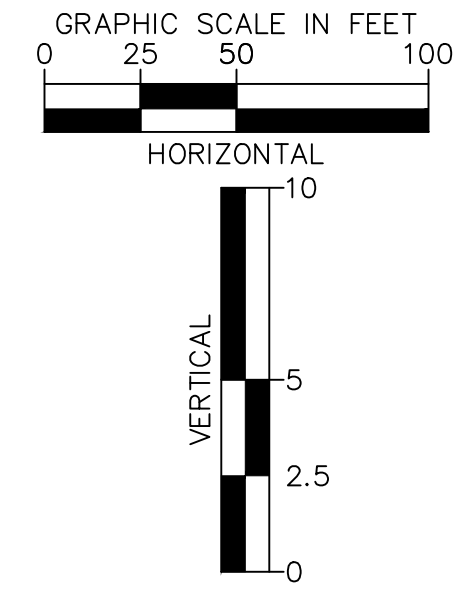
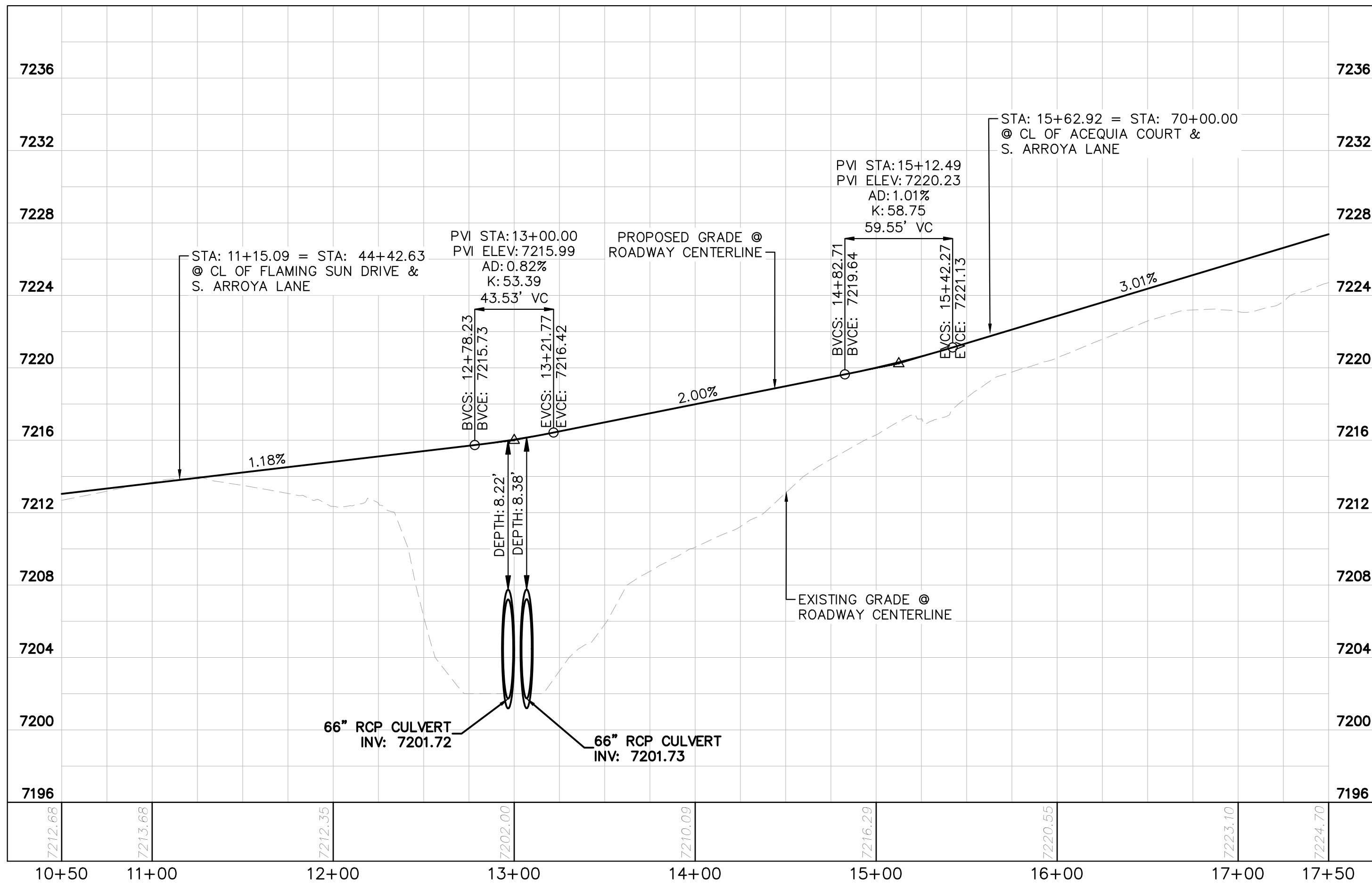
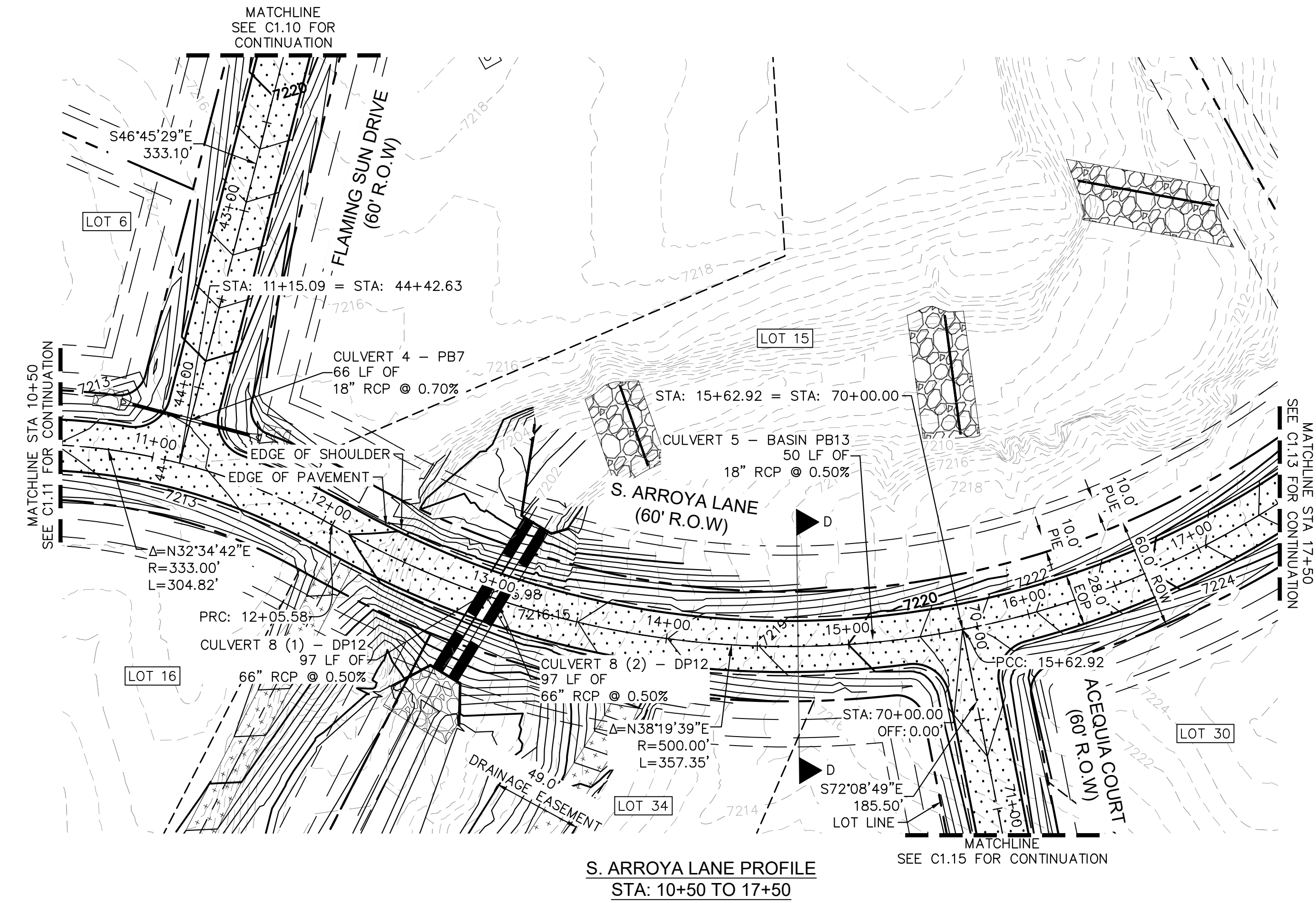
SHEET

C1.10















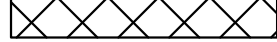

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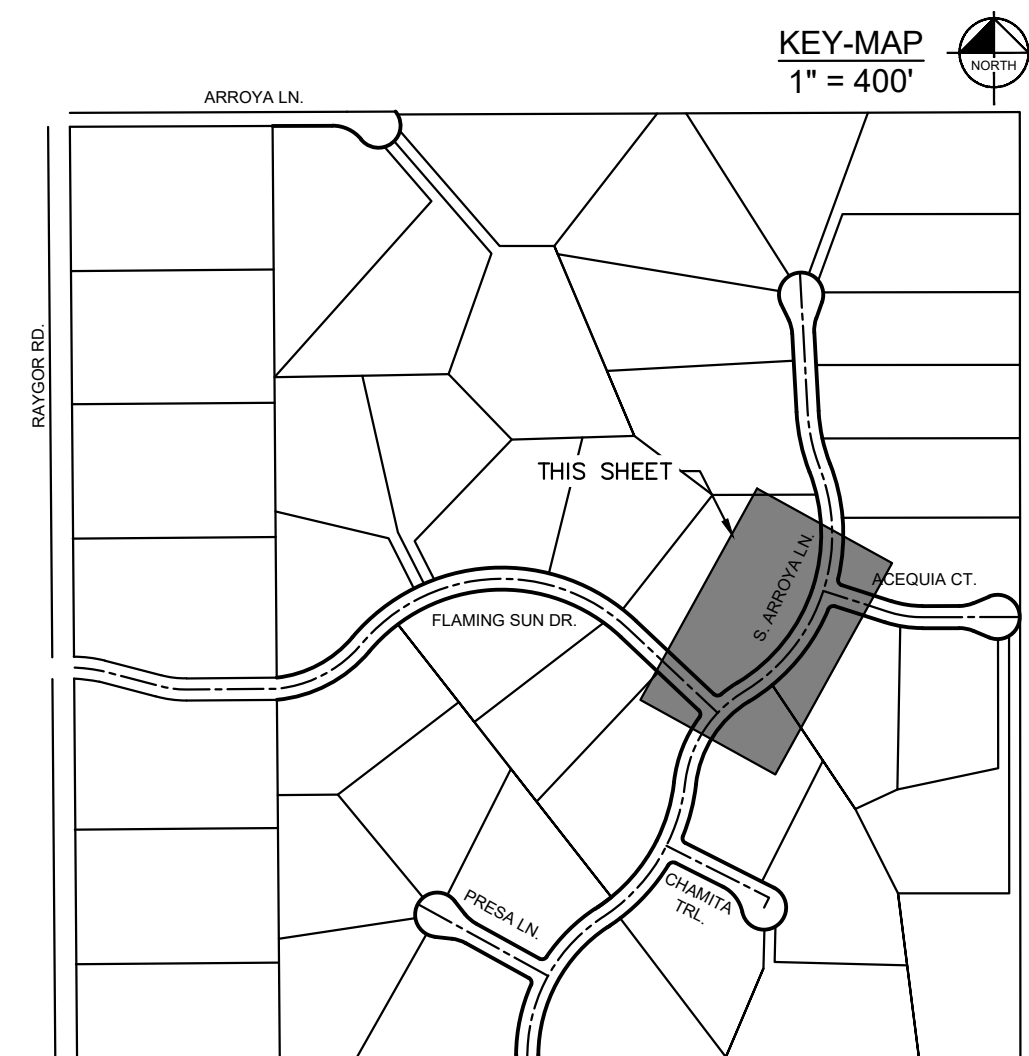


LEGEND

- |                                                                                       |                                |
|---------------------------------------------------------------------------------------|--------------------------------|
|    | PROPERTY/LOT LINE              |
|    | ROW LINE                       |
|    | UTILITY EASEMENT LINE          |
|    | LOT NUMBER                     |
|    | PROPOSED DRAINAGE EASEMENT     |
|    | CROSS SECTION (SEE SHEET C1.1) |
|    | PROPOSED CULVERT               |
|    | EXISTING CULVERT               |
|    | EXISTING MAJOR CONTOUR         |
|    | EXISTING MINOR CONTOUR         |
|    | PROPOSED MAJOR CONTOUR         |
|    | 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



PCD FILE #: SF-22-42

[illegible]

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

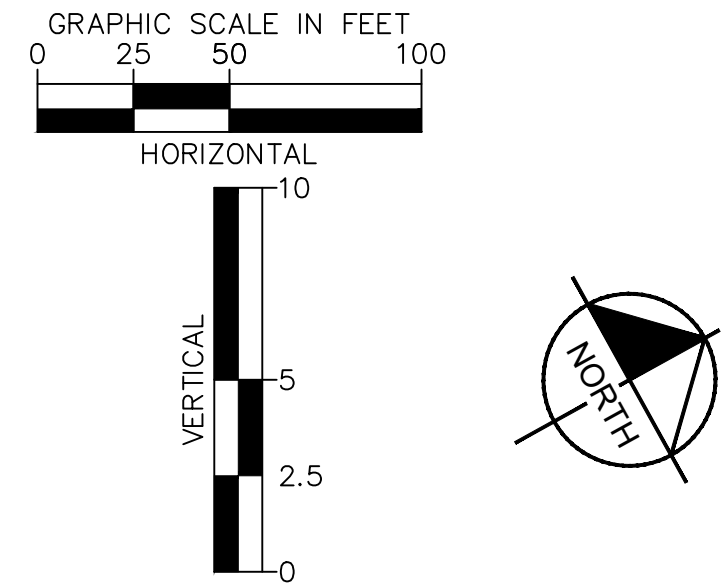
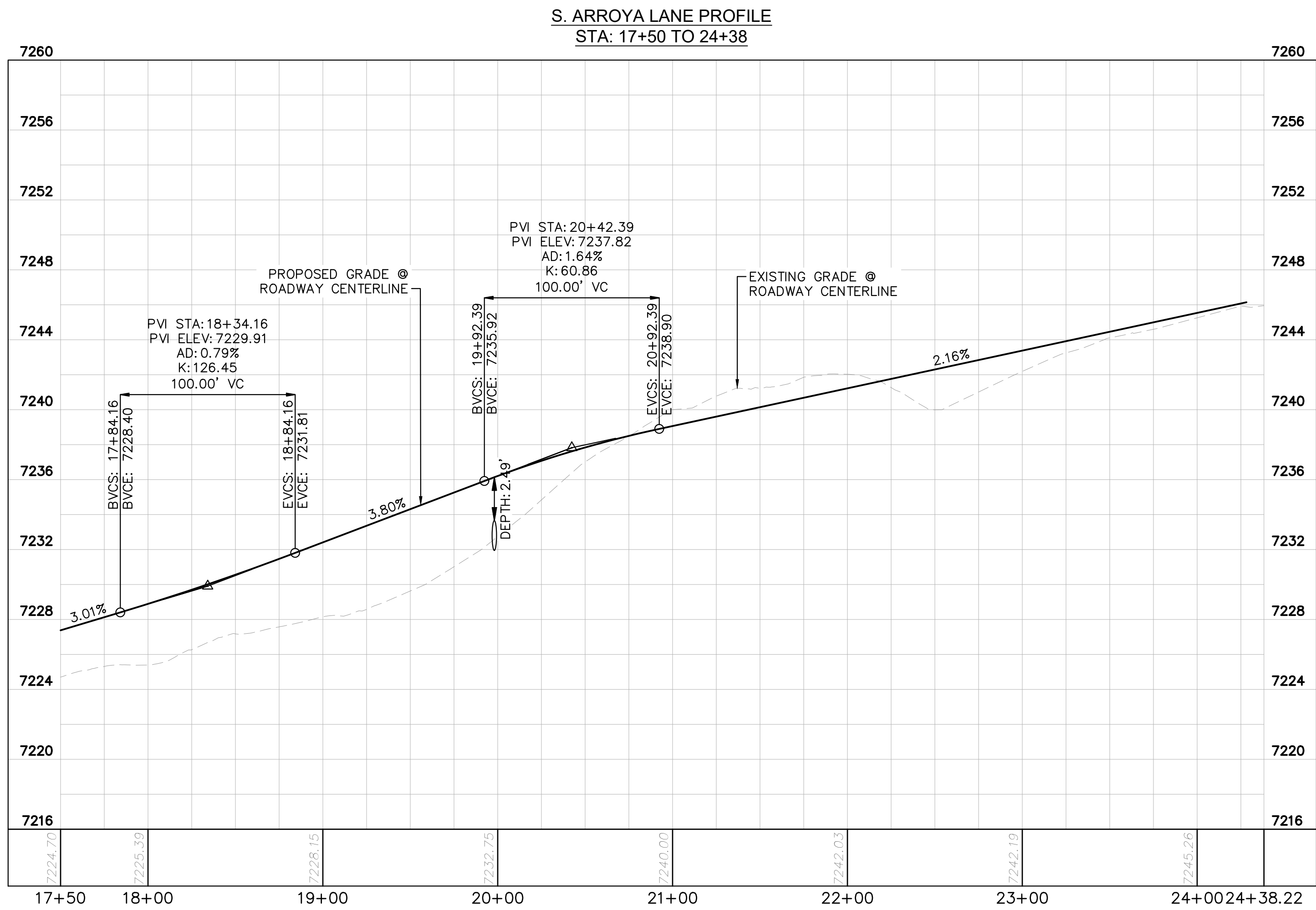
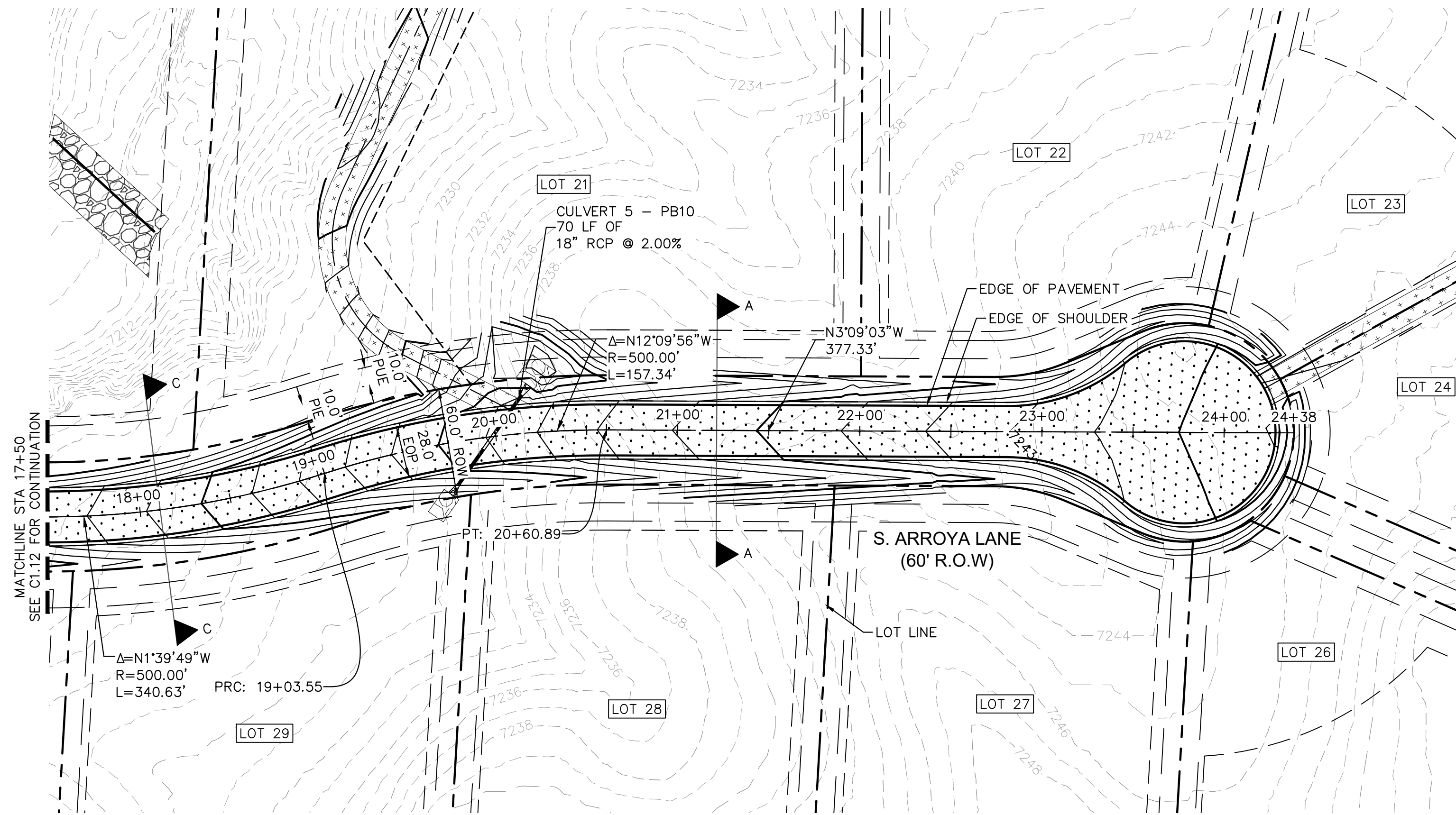





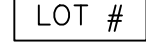








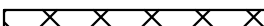
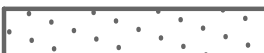

PROJECT NO.  
196106001

SHEET

C1.12

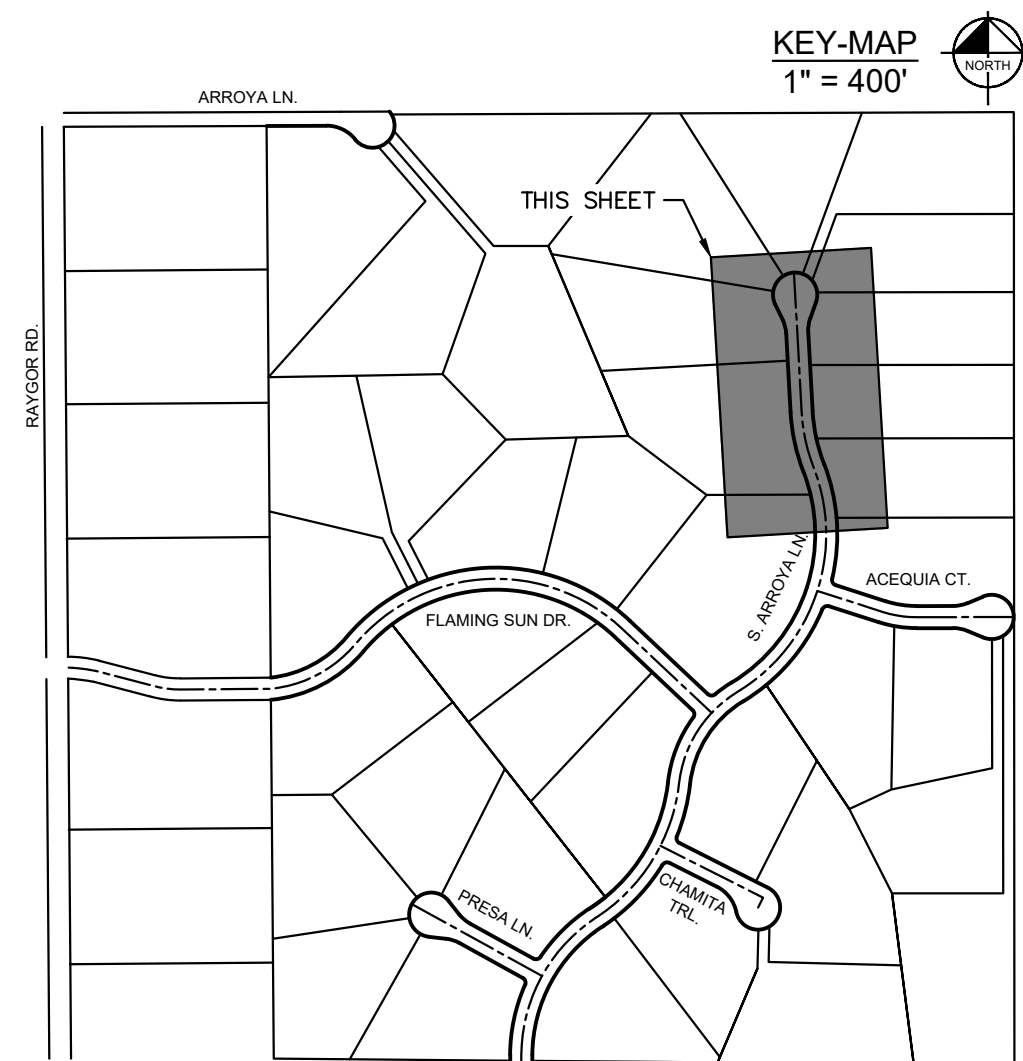




- |                                                                                       |                                                               |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------|
|    | PROPERTY/LOT LINE                                             |
|    | ROW LINE                                                      |
|    | UTILITY EASEMENT LINE                                         |
|    | LOT NUMBER                                                    |
|    | PROPOSED DRAINAGE SEPARATION<br>CROSS SECTION (SEE SHEET C.1) |
|    | PROPOSED CULVERT                                              |
|    | EXISTING CULVERT                                              |
|    | EXISTING MAJOR CONTOUR                                        |
|    | EXISTING MINOR CONTOUR                                        |
|    | PROPOSED MAJOR CONTOUR                                        |
|    | 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

[illegible]

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

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

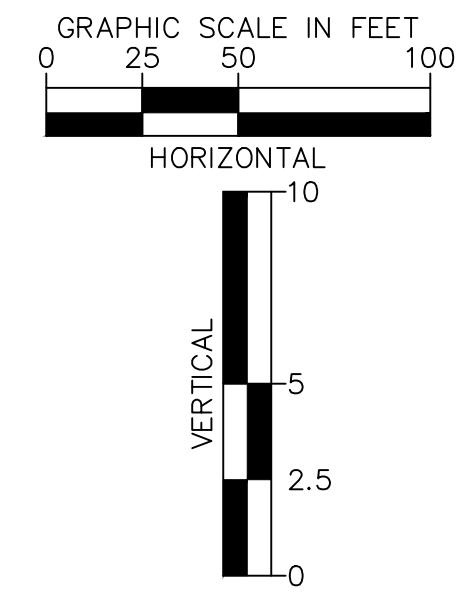
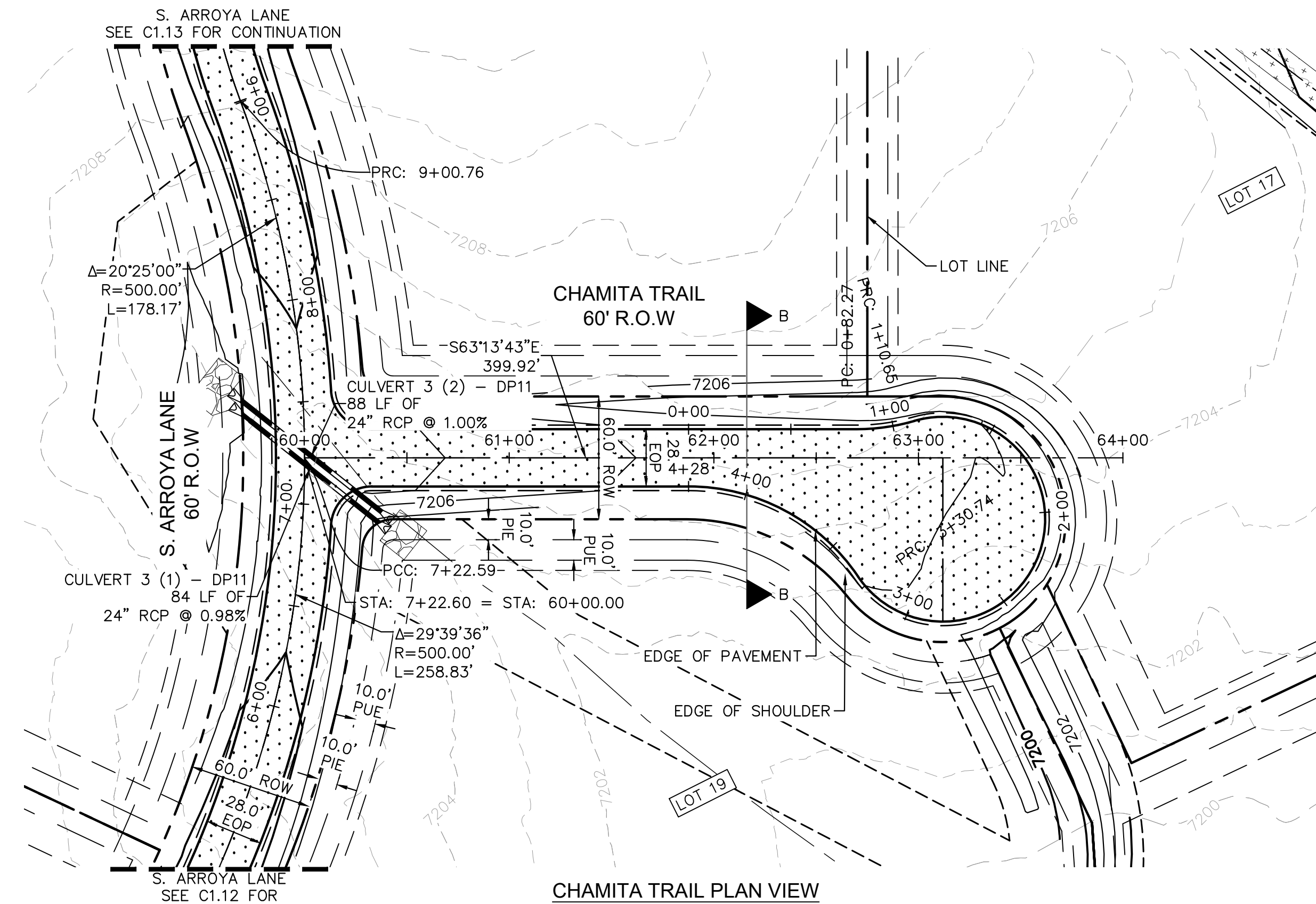
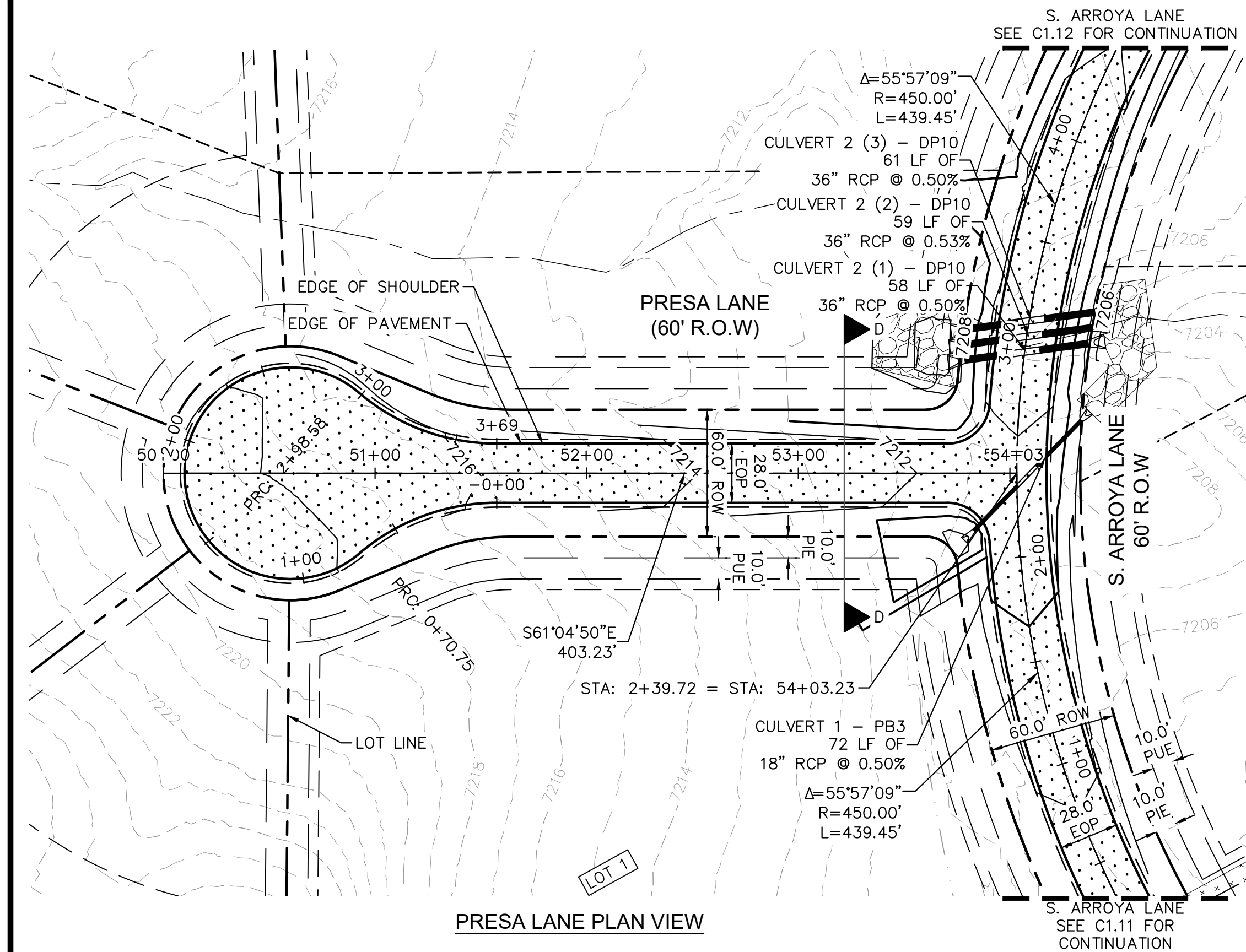


PROJECT NO.  
196106001




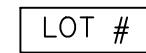
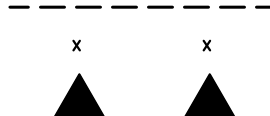










SHEE

C1.13



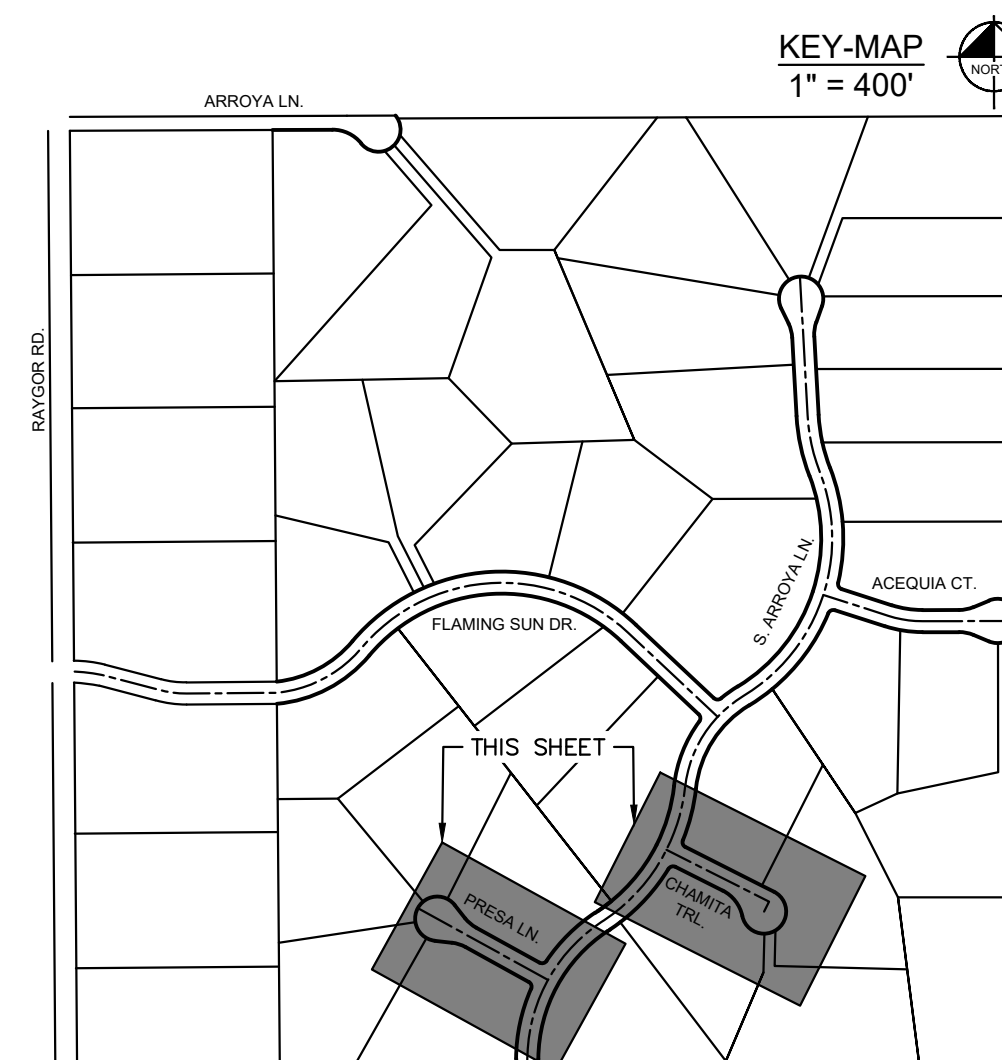
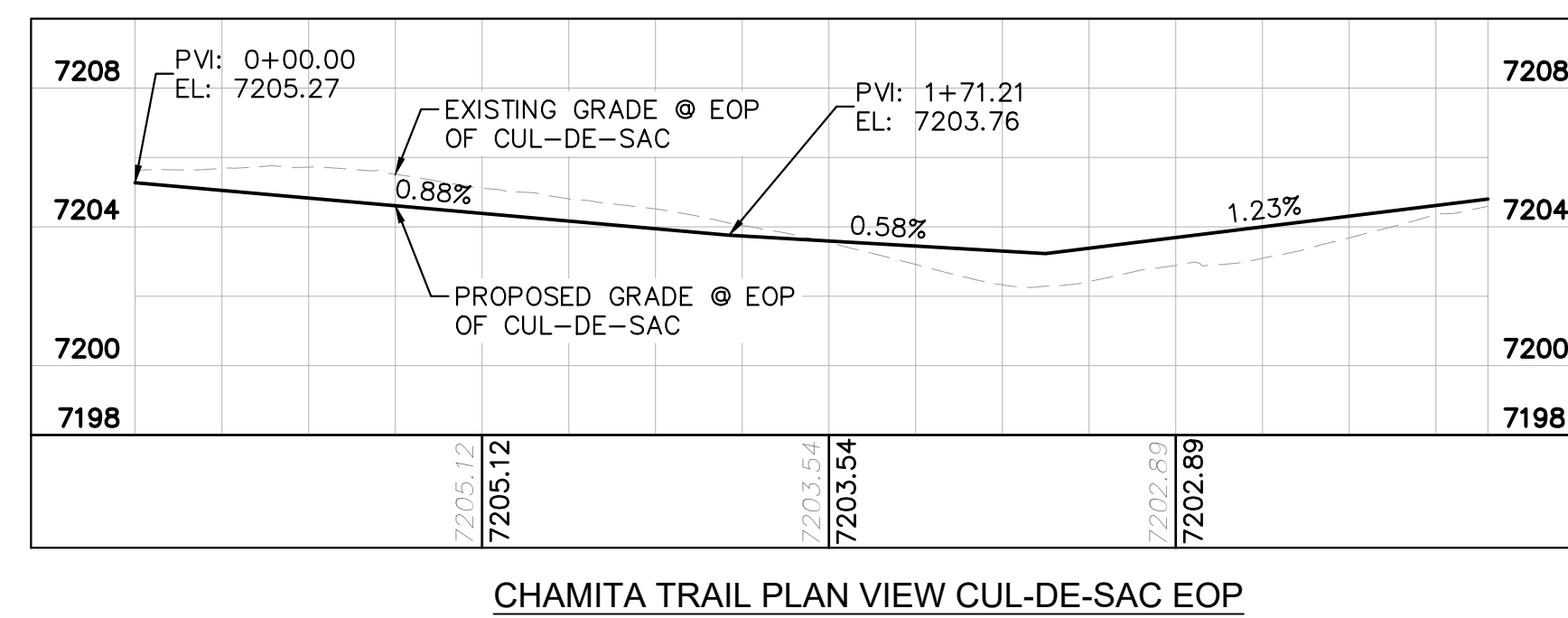
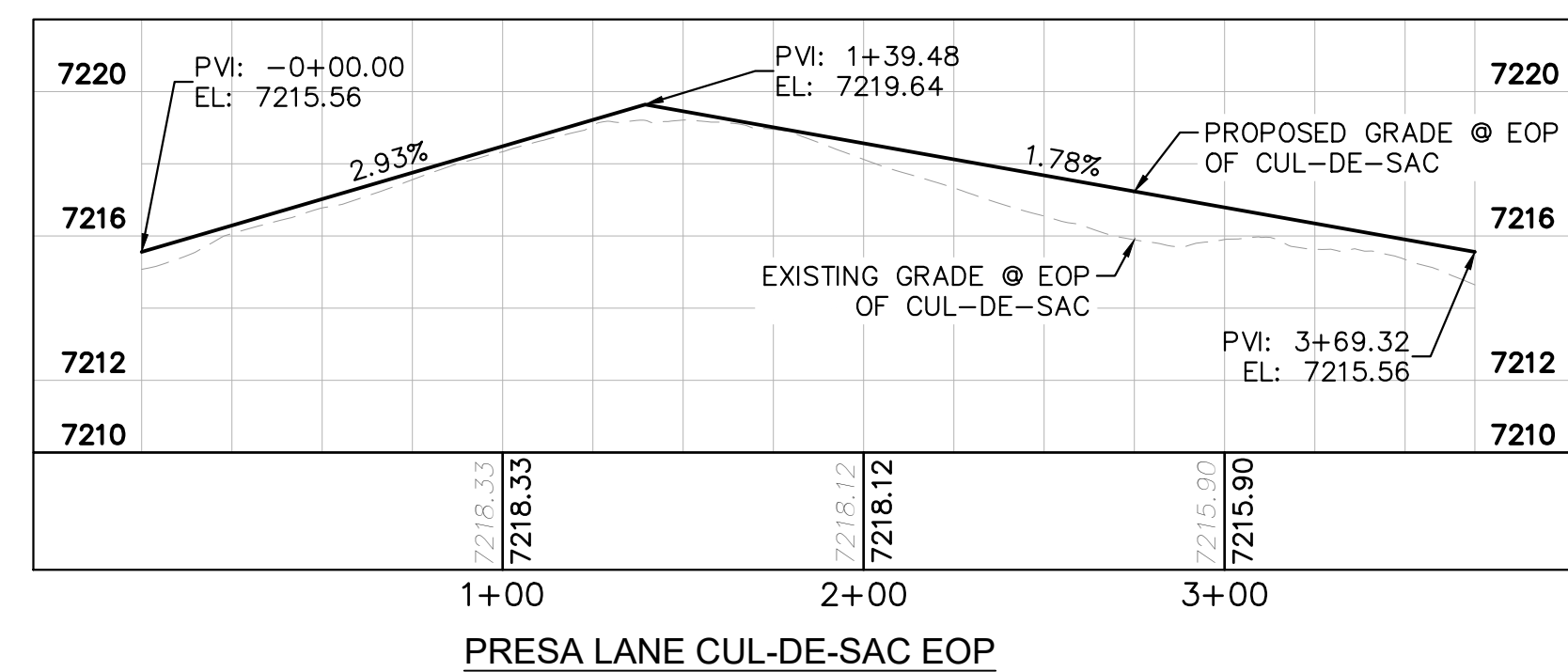
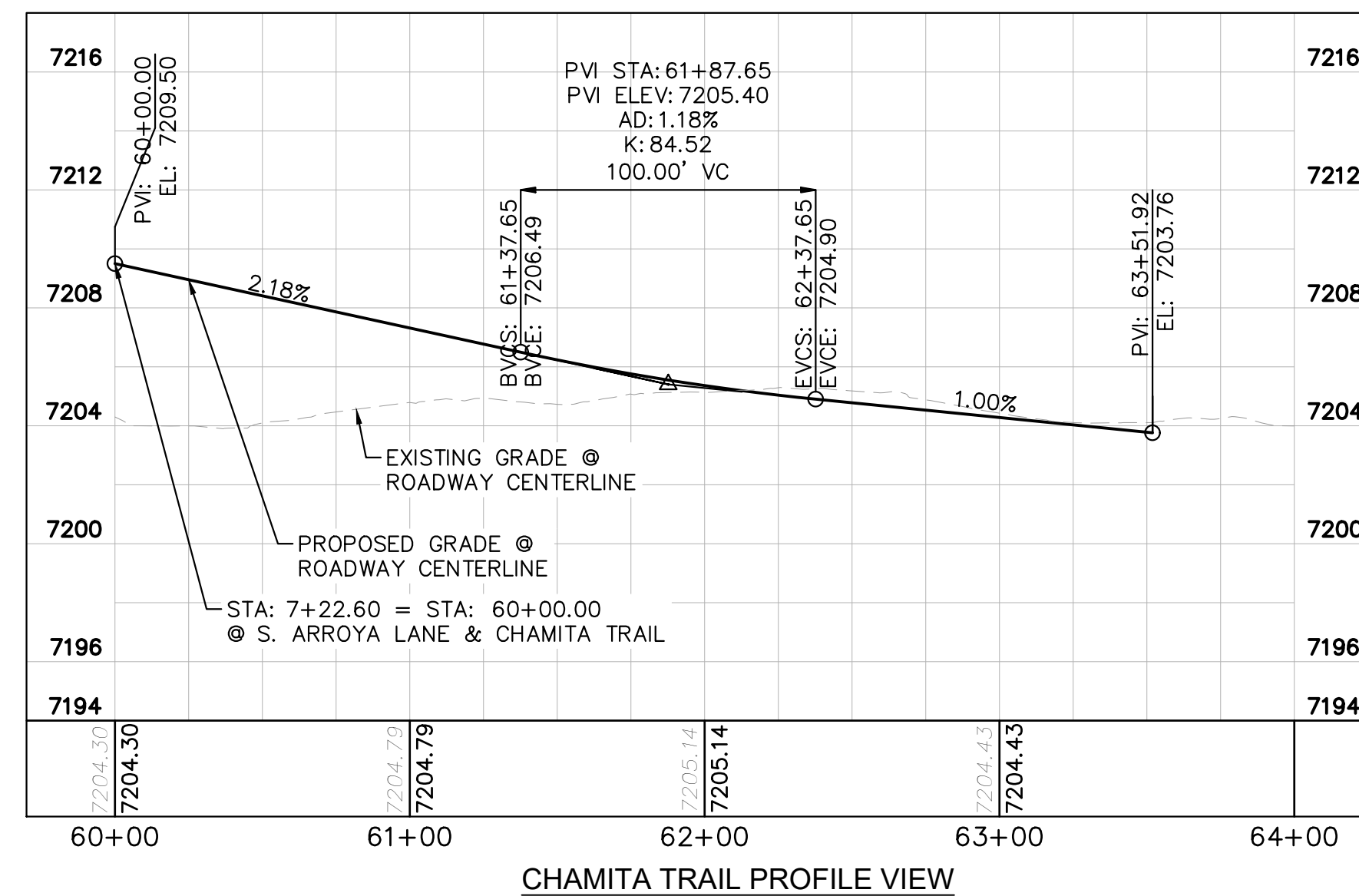
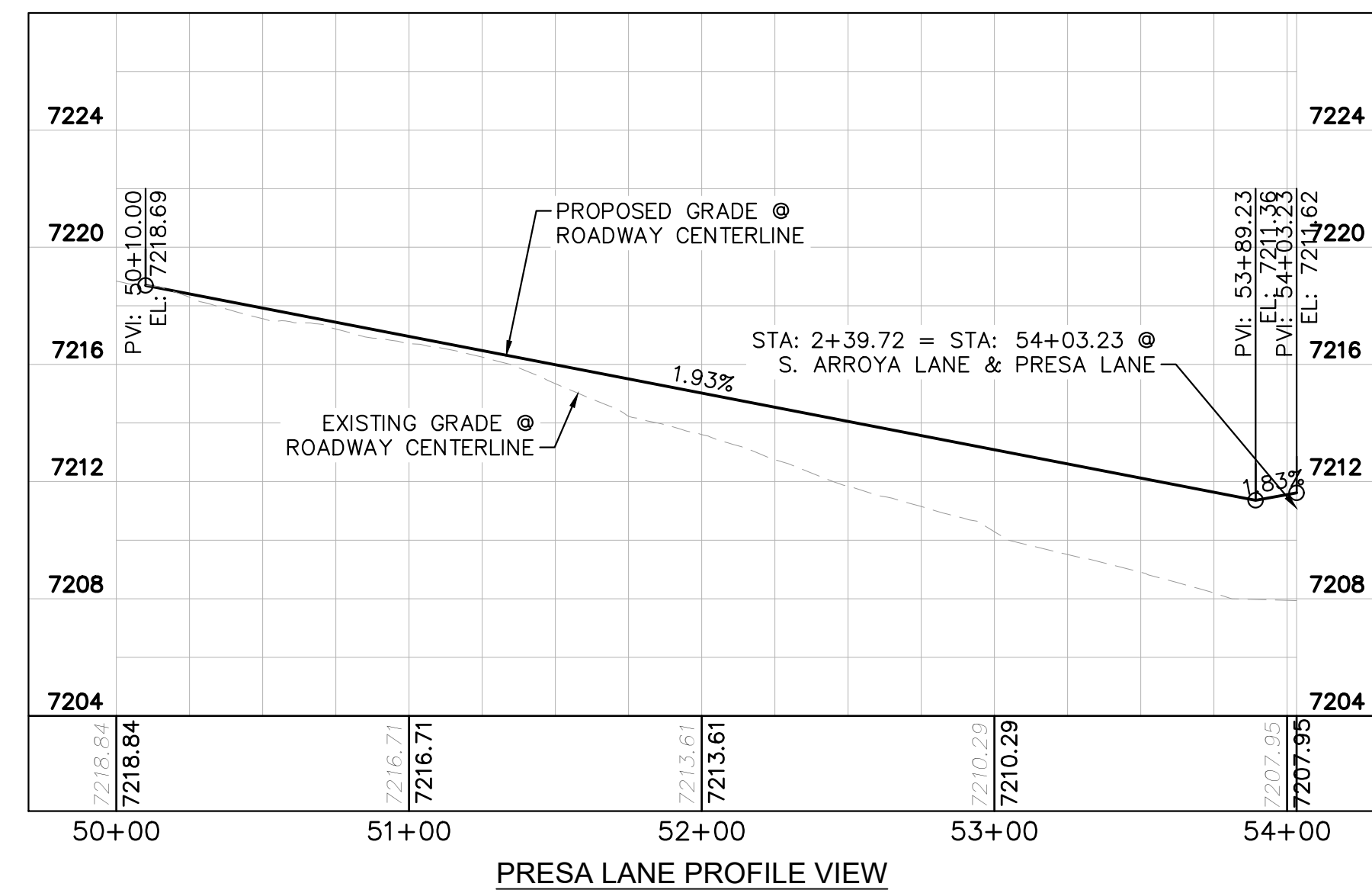


LEGEND

- |                                                                                       |                                                              |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------|
|    | PROPERTY/LOT LINE                                            |
|    | ROW LINE                                                     |
|    | UTILITY EASEMENT LINE                                        |
|    | LOT NUMBER                                                   |
|    | PROPOSED DRAINAGE EASEMENT<br>CROSS SECTION (SEE SHEET C.1.) |
|    | PROPOSED CULVERT                                             |
|    | EXISTING CULVERT                                             |
|    | EXISTING MAJOR CONTOUR                                       |
|    | EXISTING MINOR CONTOUR                                       |
|    | PROPOSED MAJOR CONTOUR                                       |
|    | 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



PCD FILE #: SF-22-42

## EAGLEVIEW

EL PASO COUNTY, COLORADO  
CONSTRUCTION DOCUMENTS

# LET 700 COUNTY, COLOMBIA CONSTRUCTION DOCUMENTS

PRESA LN. &amp; CHAMITA TRL. PLAN &amp; PROFILE

**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

DRAWN BY:

CHECKED BY \_\_\_\_\_

DATE: 9/17/2024

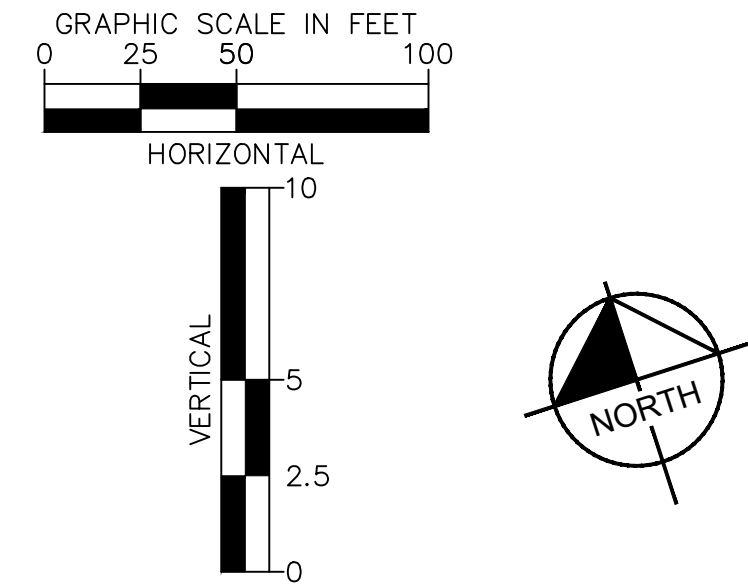
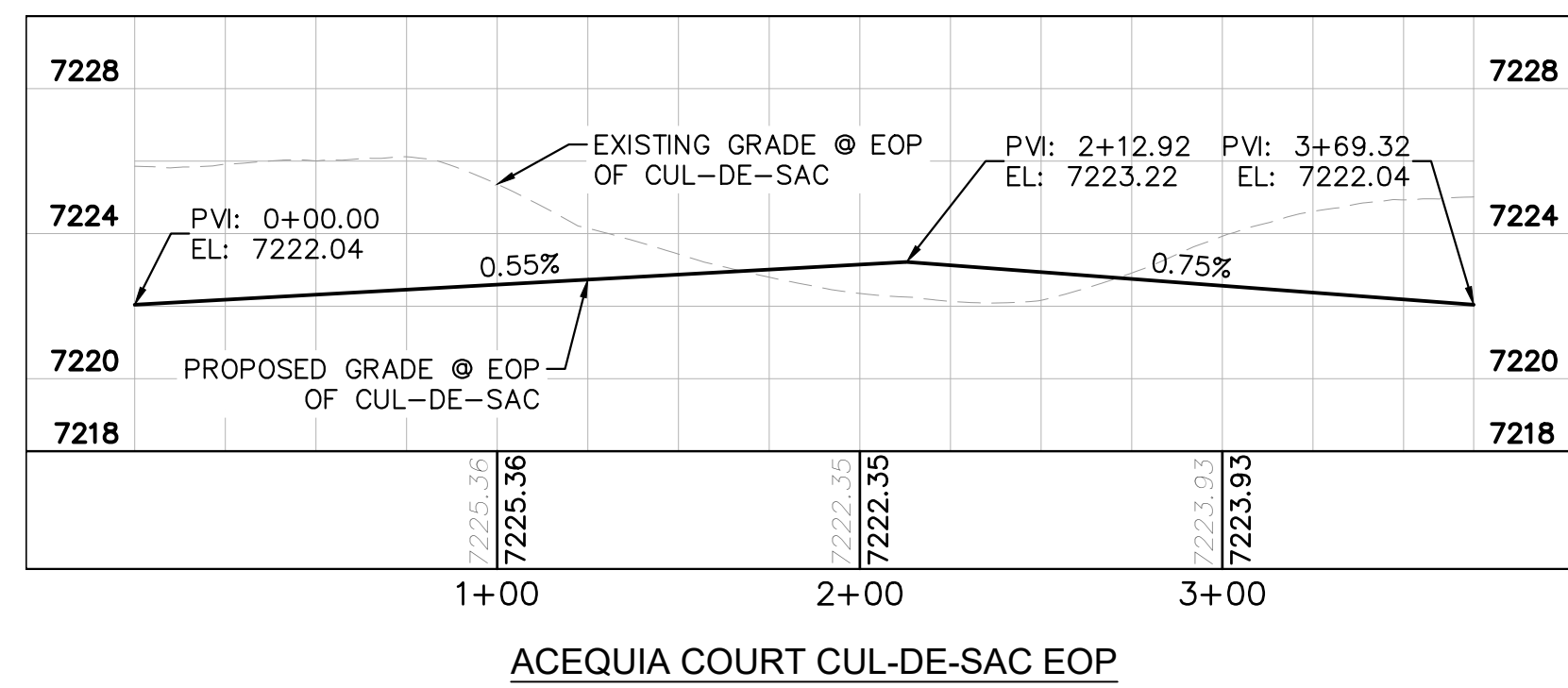
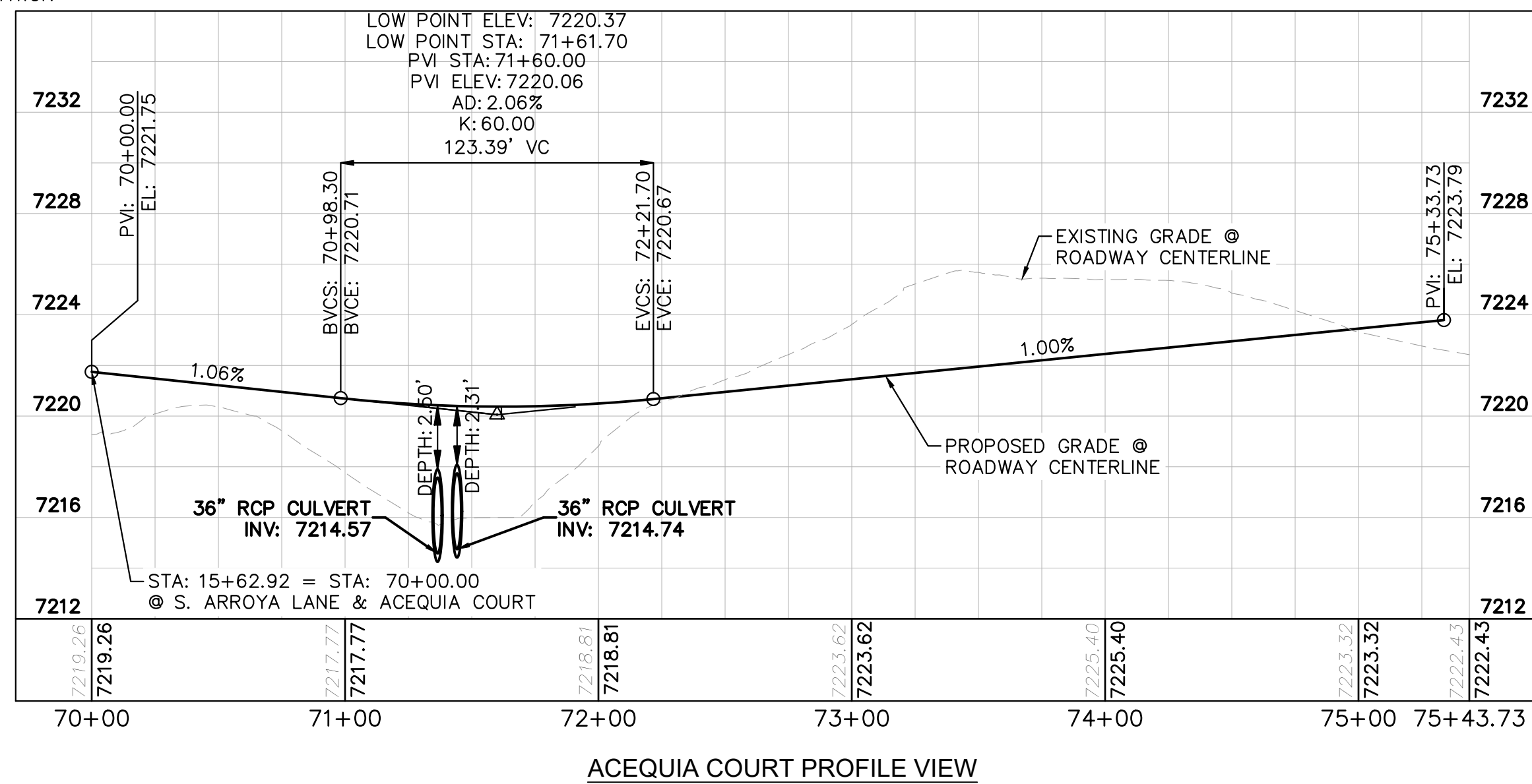
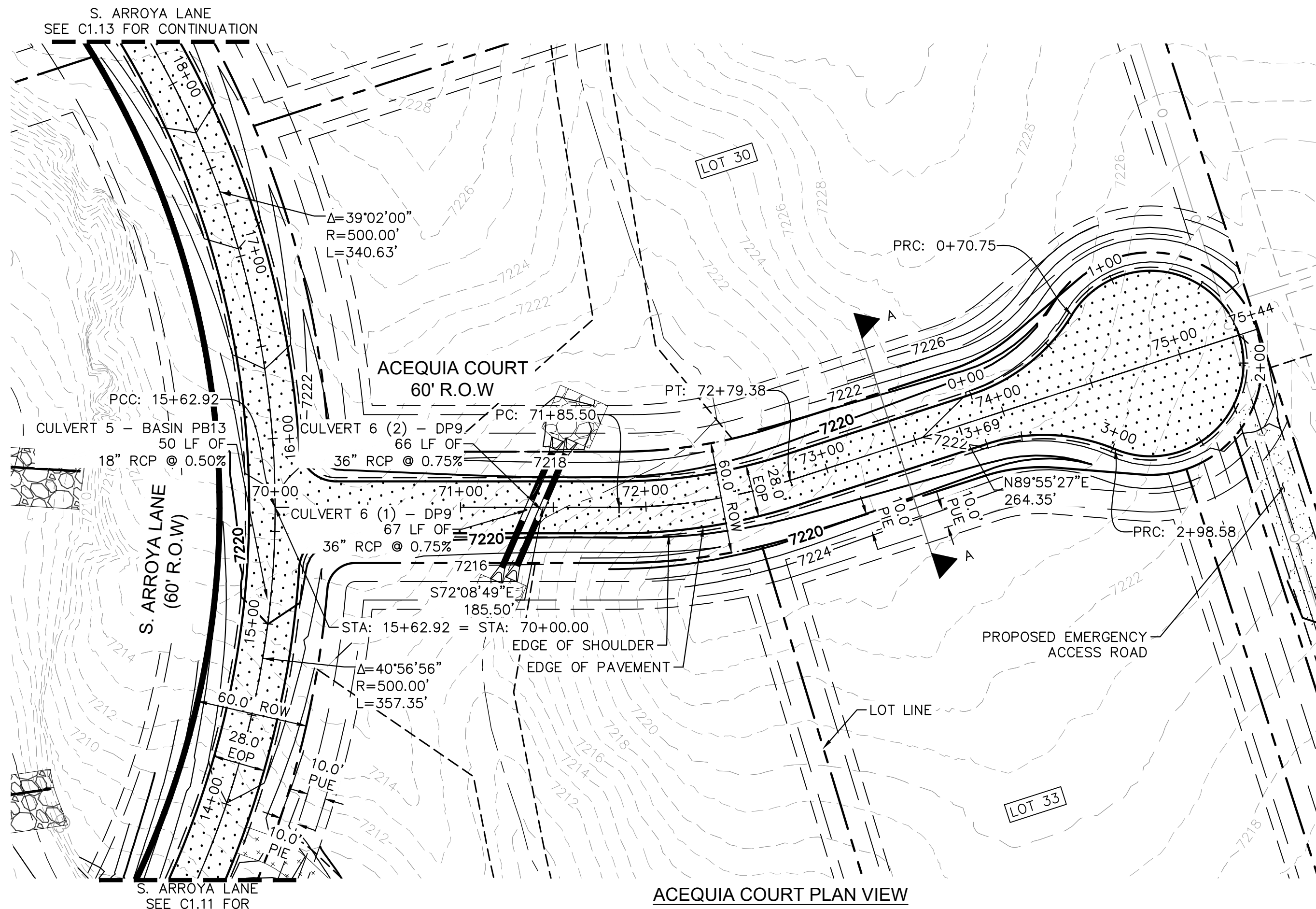





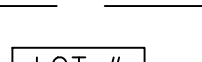
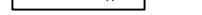









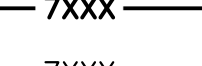
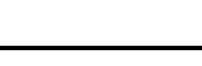
PROJECT NO.  
196106001

SHEET

C1.14

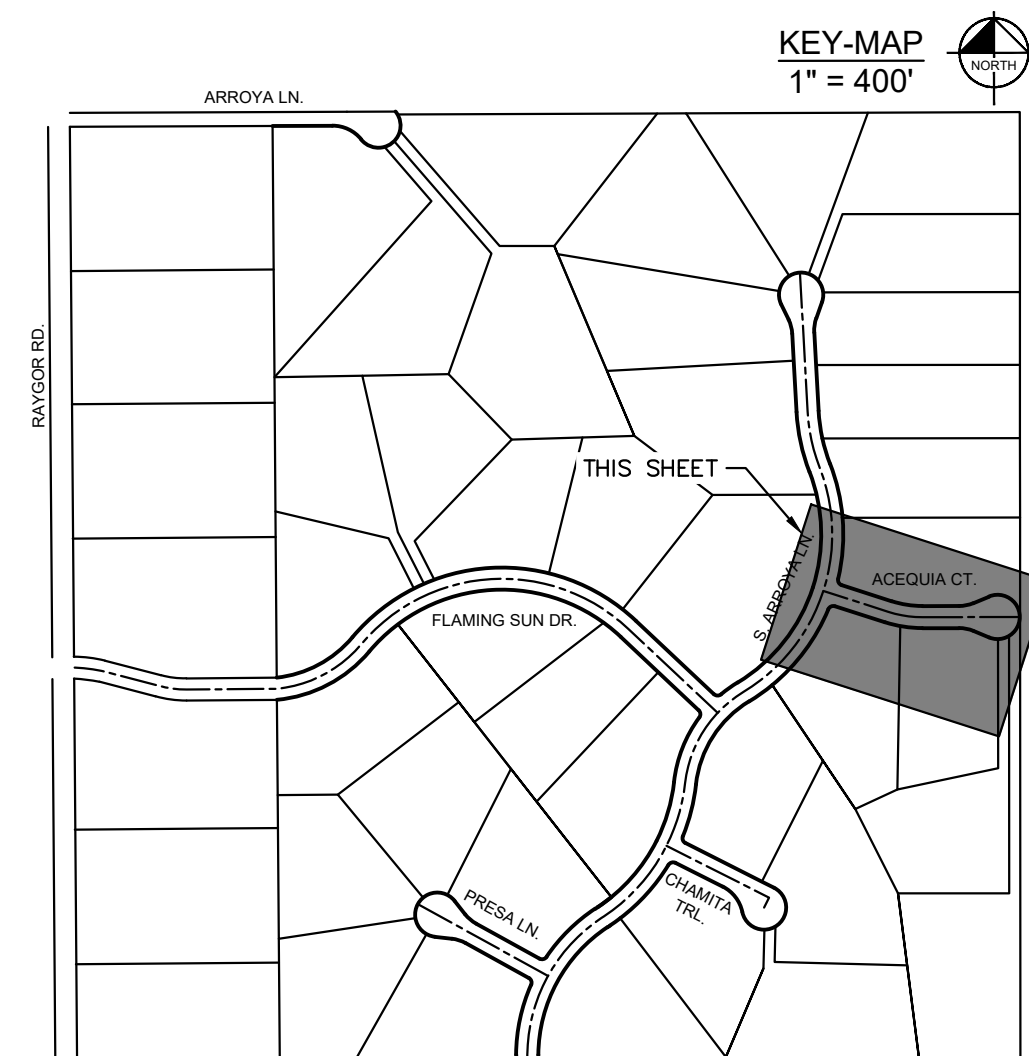




- |                                                                                     |                                |
|-------------------------------------------------------------------------------------|--------------------------------|
|  | PROPERTY/LOT LINE              |
|  | ROW LINE     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

## NOTES

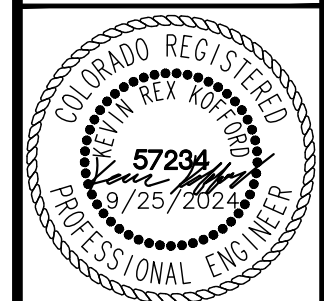
1. SEE SHEET C1.1 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.
2. PIE = PUBLIC IMPROVEMENT EASEMENT
3. PUE = PUBLIC UTILITY EASEMENT

[illegible]

**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

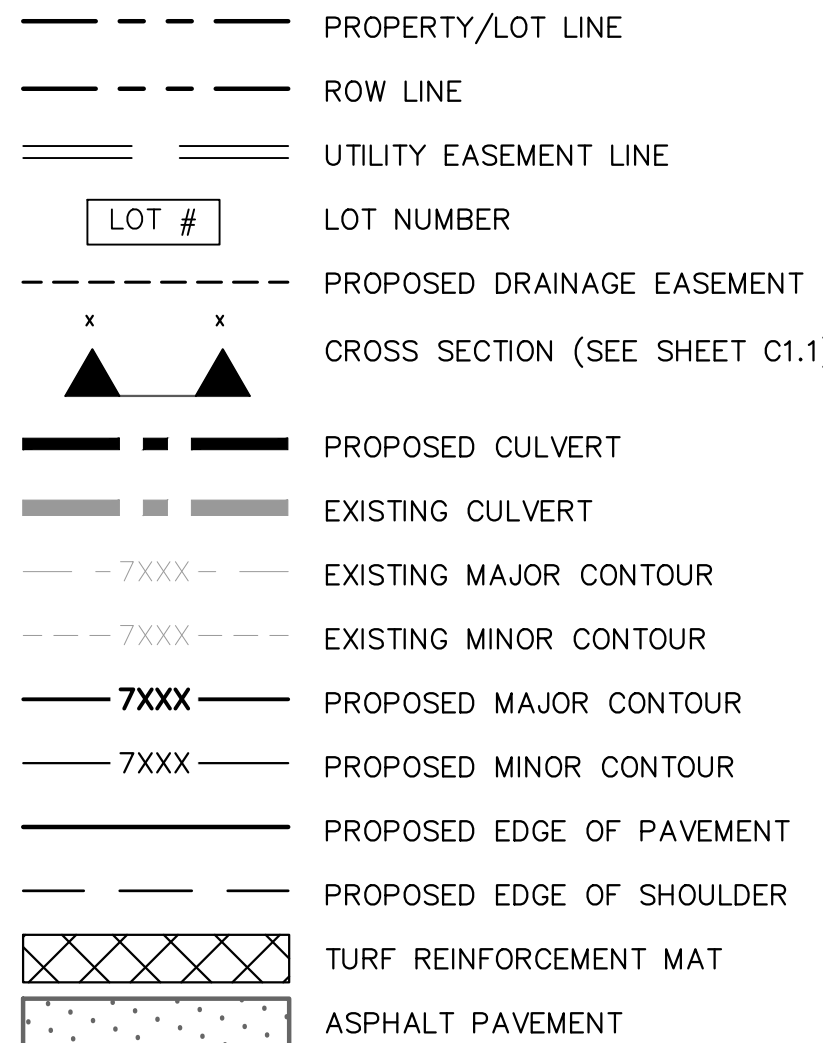
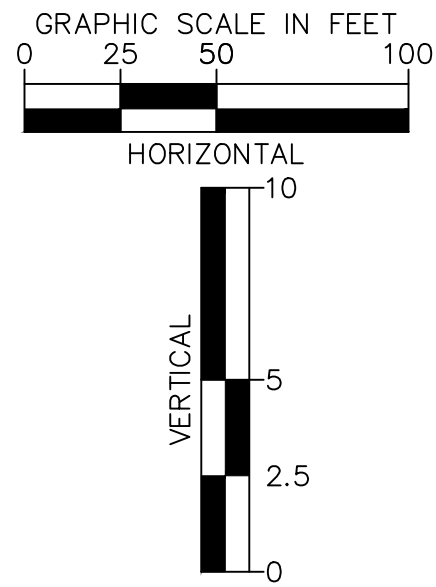
EAGLEVIEW  
EL PASO COUNTY, COLORADO  
CONSTRUCTION DOCUMENTS  
ACEQUIA CT. PLAN & PROFILE



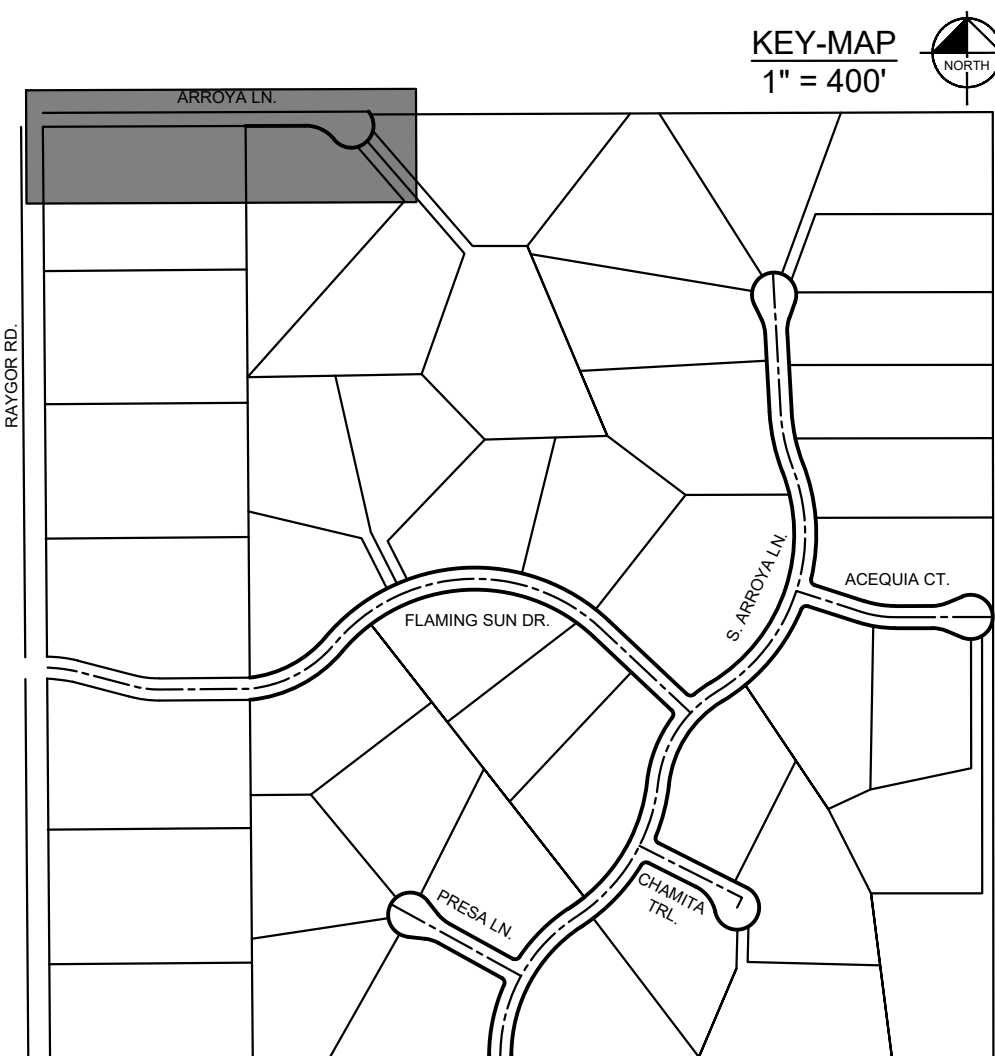
PROJECT NO. 196106001
SHEET

C1.15

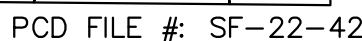


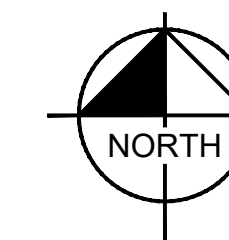
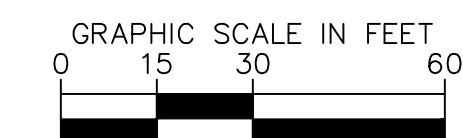
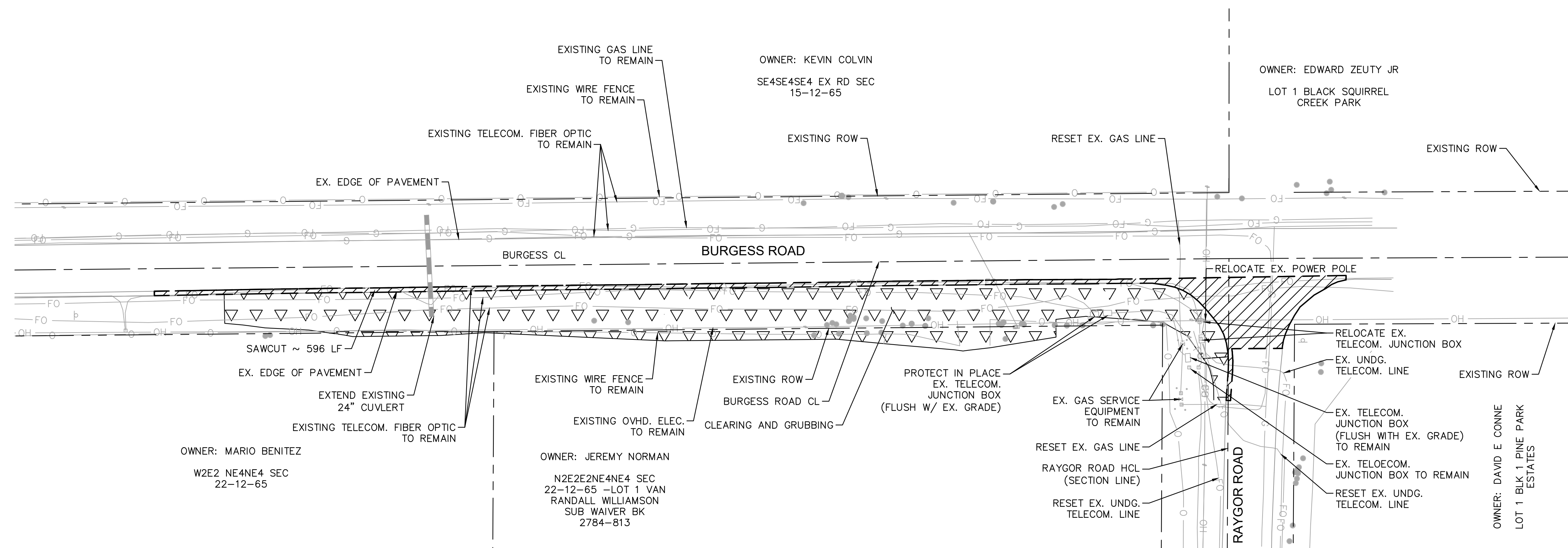


1. SEE SHEET C1.1 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.
2. PIE = PUBLIC IMPROVEMENT EASEMENT
3. PUE = PUBLIC UTILITY EASEMENT









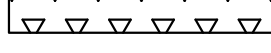



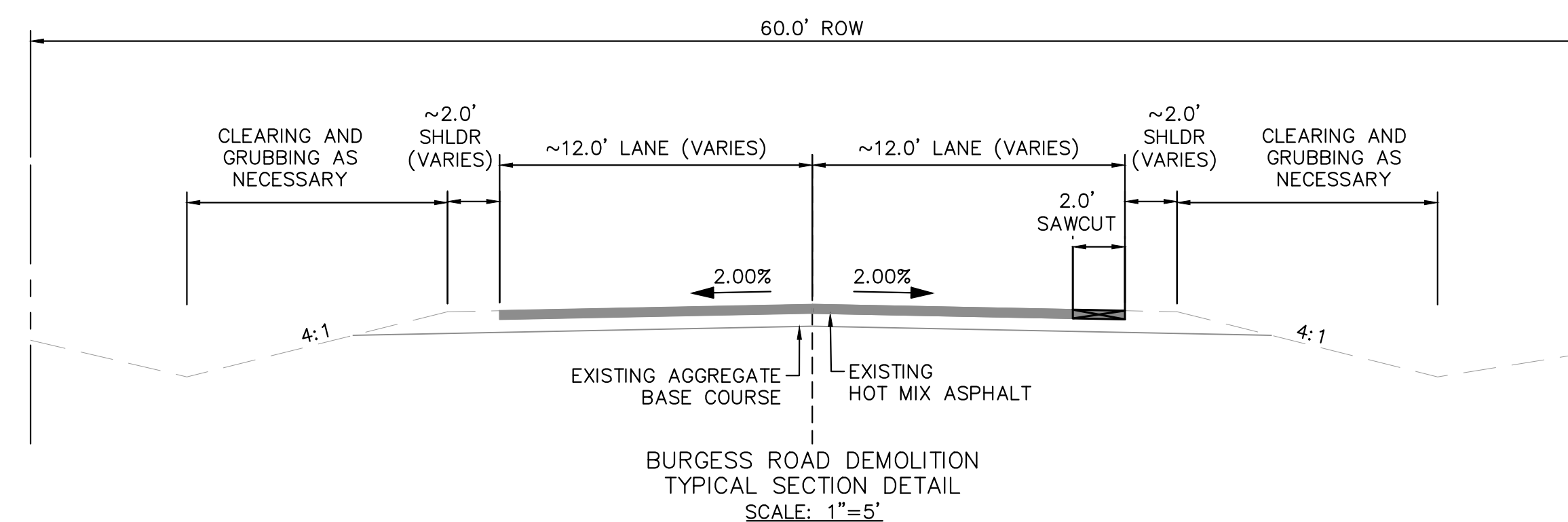
KEY-MAP  
1" = 400'





LEGEND

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



Know what's **below**.  
Call before you dig.

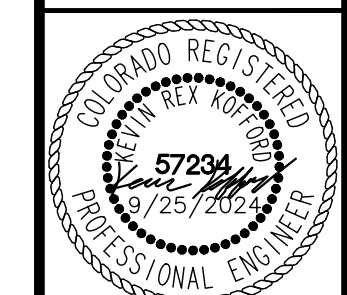


# Kimley»Horn

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  
**BURGESS REMOVE & RESET PLAN**



PROJECT NO.  
196106001

SHEET

C1.17

PCD FILE #: SF-22-42







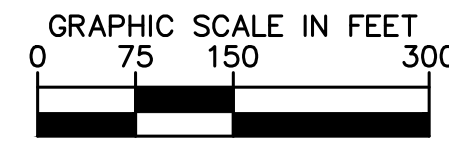
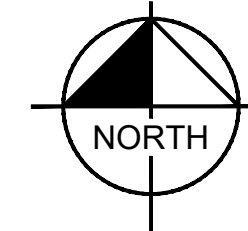
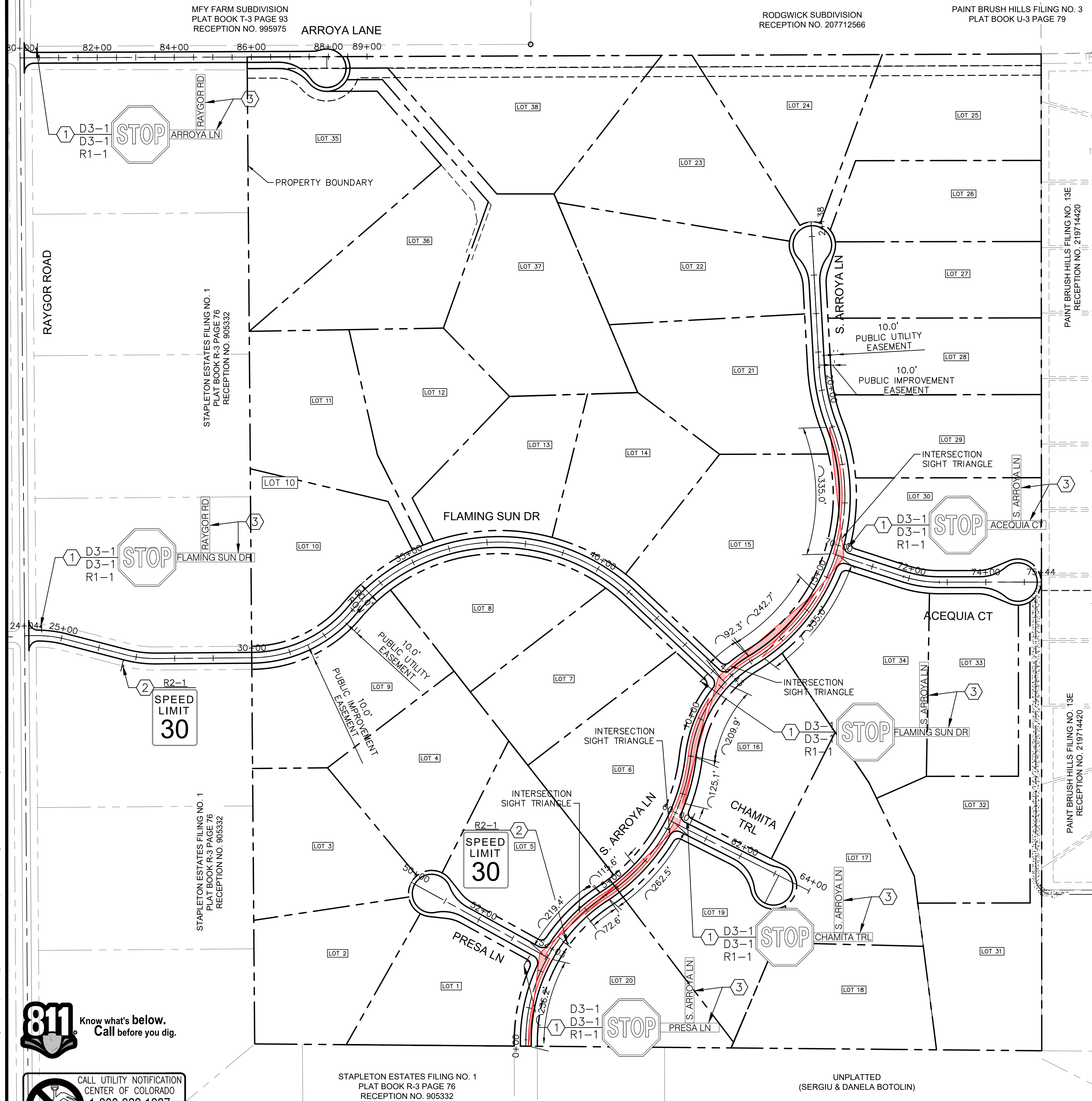
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Know what's below.  
Call before you dig.

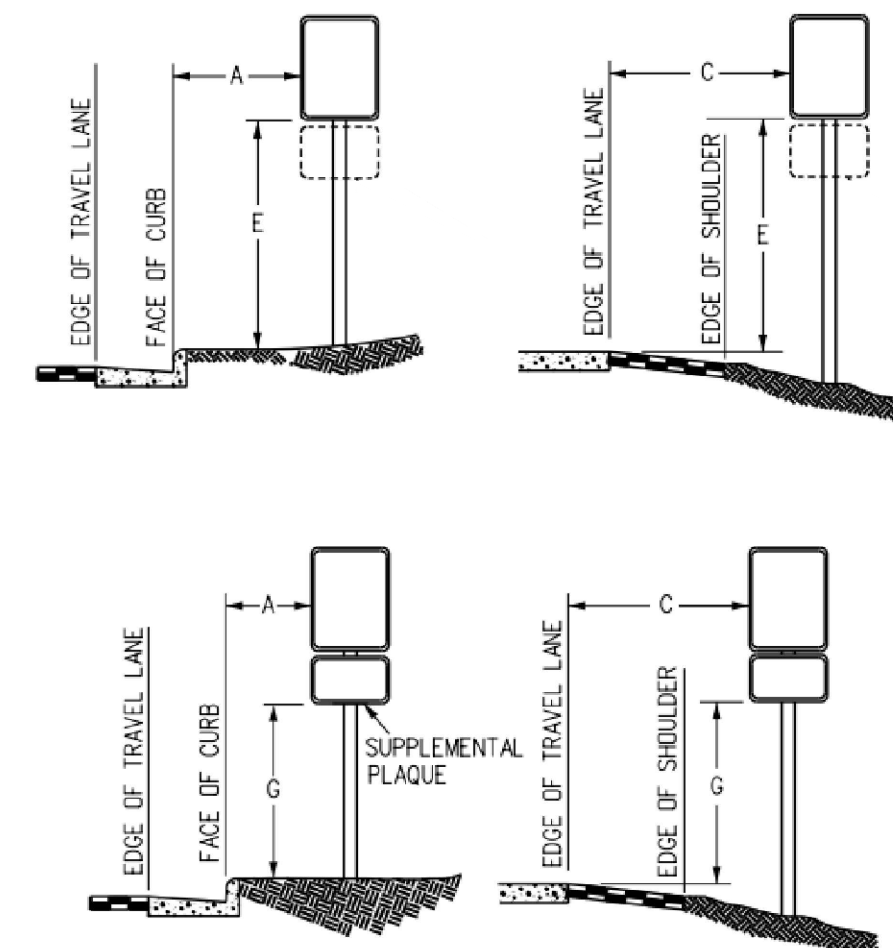


CALL UTILITY NOTIFICATION  
CENTER OF COLORADO  
1-800-922-1987  
CALL 2-BUSINESS DAYS IN ADVANCE  
BEFORE YOU DIG, GRADE, OR EXCAVATE  
FOR THE MARKING OF UNDERGROUND  
MEMBER UTILITIES



#### LEGEND

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



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 MIN.	URBAN MAX.	RURAL MIN.	RURAL MAX.
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'-0" WIDE SHOULDER. IF NONE, 15'-0" FROM EDGE OF TRAVEL LANE.						
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"	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"

#### SIGNING AND STRIPING NOTES

- ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 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.
- ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT.
- 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.
- STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
- ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
- 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".
- ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
- 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.
- ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
- 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.
- 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.
- THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
- 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.

EAGLEVIEW

EL PASO COUNTY, COLORADO  
CONSTRUCTION DOCUMENTS

ON-SITE STRIPING & SIGNAGE PLAN

**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: 9/25/2024



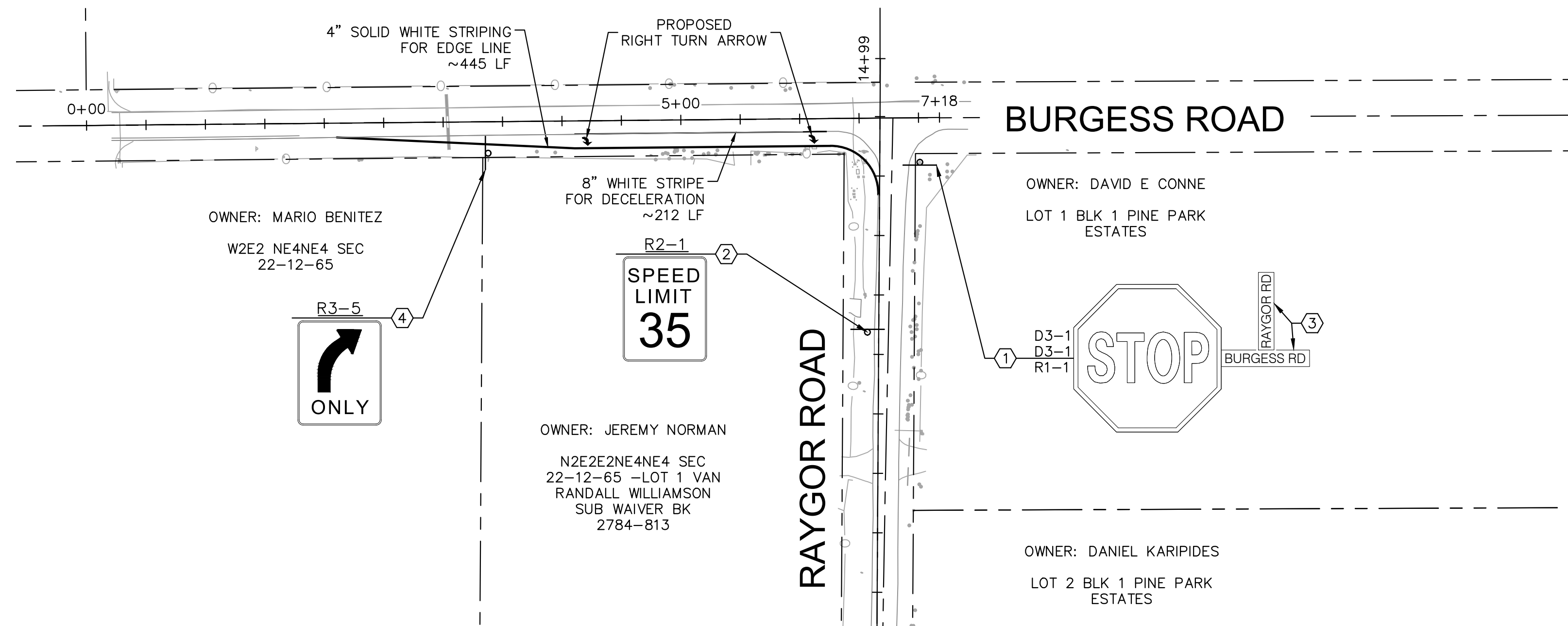
PROJECT NO.  
196106001

SHEET

C1.19

PCD FILE #: SF-22-42










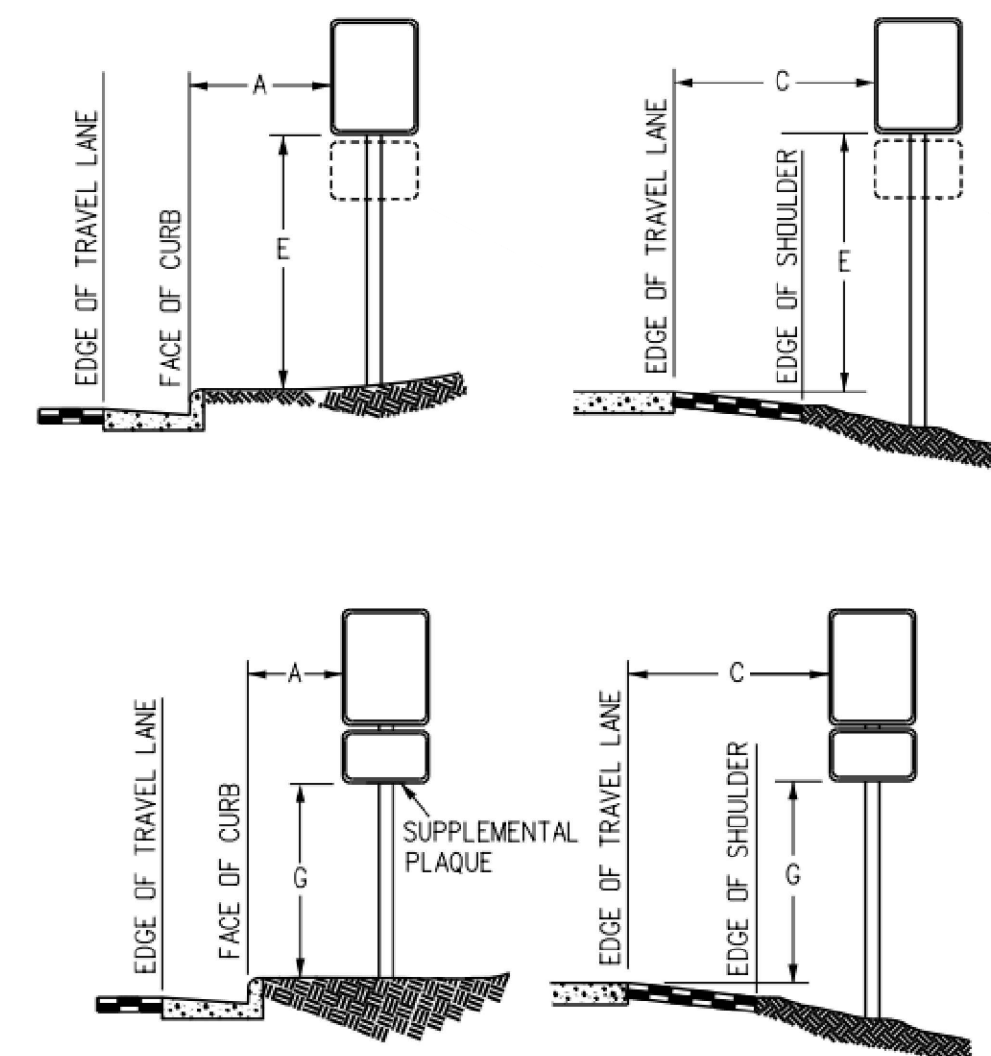


## SIGNING AND STRIPING NOTES

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 CURRENT MUTCD S-614 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                    | 5 |
|  | PROPOSED EASEMENT                | 6 |
|  | PROPOSED ROADWAY SIGN            | 7 |
|  | PROPOSED R1-1 SIGN (30" X 30")   |   |
|  | PROPOSED R2-1 SIGN (24" X 30")   |   |
|  | PROPOSED D3-1 SIGN (8" X VARIES) |   |
|  | PROPOSED R3-5 SIGN (24" X 30")   |   |



## 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.

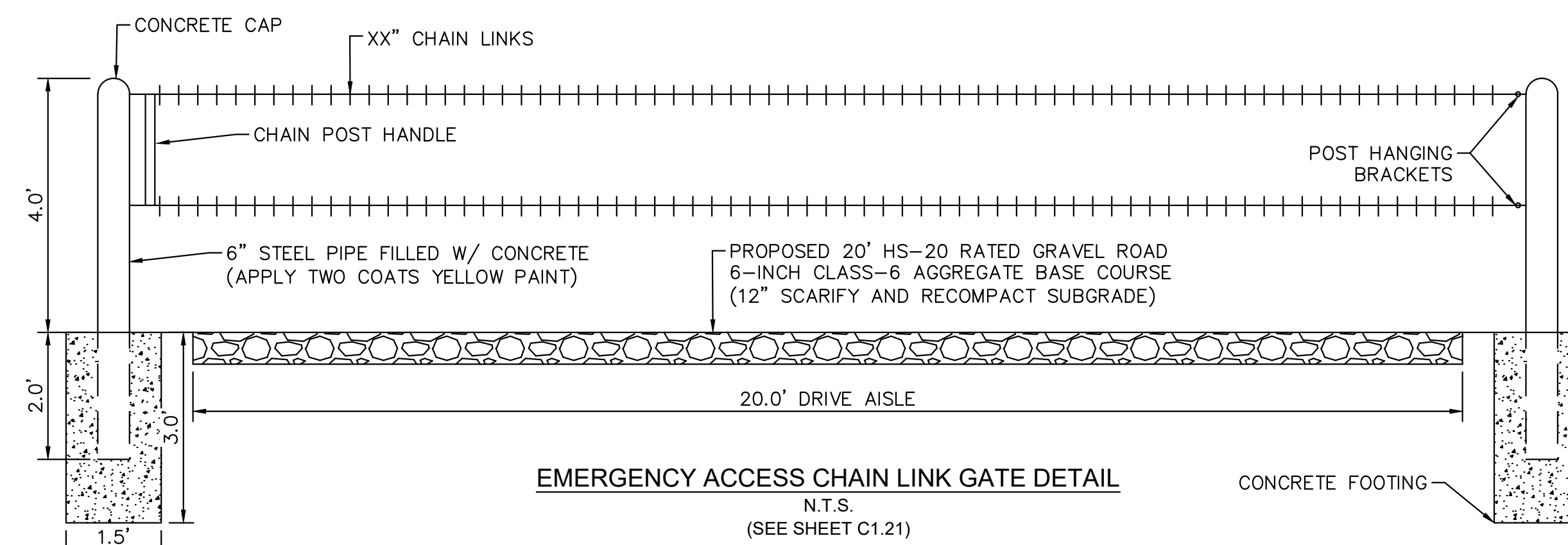
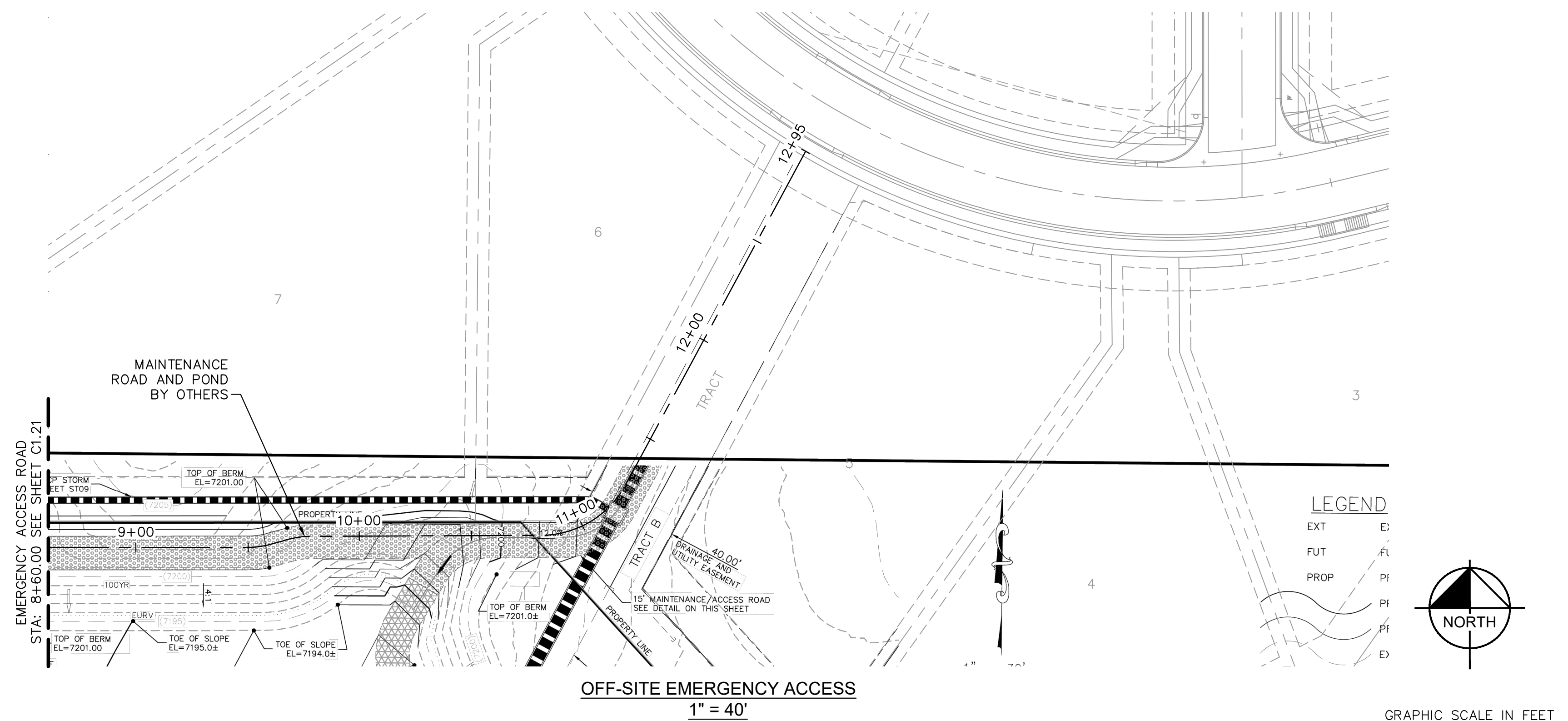
VERTICAL PLACEMENT						
KEY	FREEWAYS AND EXPRESSWAYS		CONVENTIONAL STREETS AND HIGHWAYS			
	MIN.	MAX.	URBAN		RURAL	
			MIN.	MAX.	MIN.	MAX.
D	7'-0" OR NOTE NO. 9	12'-0"	7'-0"	8'-0"	5'-0"	8'-0"
E	7'-0"	8'-0"	7'-0"	8'-0"	5'-0"	6'-0"
F	8'-0" OR NOTE NO. 9	12'-0"	3'-0"	9'-0"	5'-0"	9'-0"
G	6'-0"	7'-0"	3'-0"	7'-0"	4'-0"	7'-0"
H	5'-0"	10'-0"	3'-0"	7'-0"	4'-0"	7'-0"









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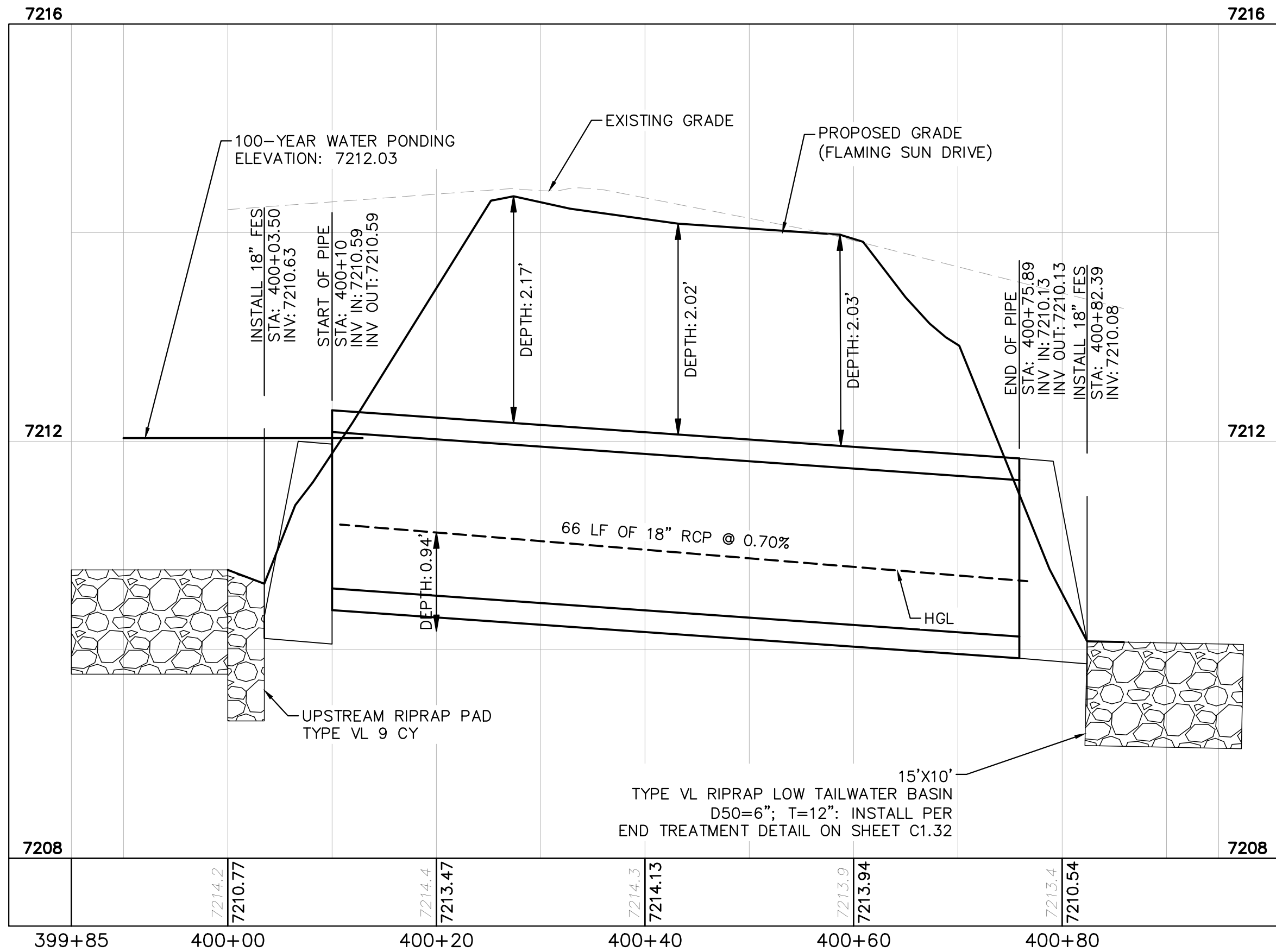
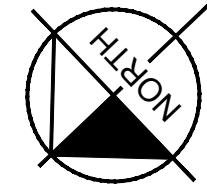
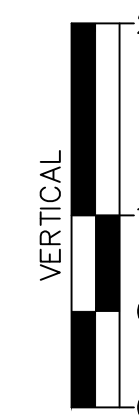
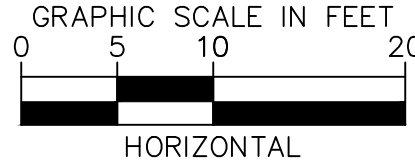
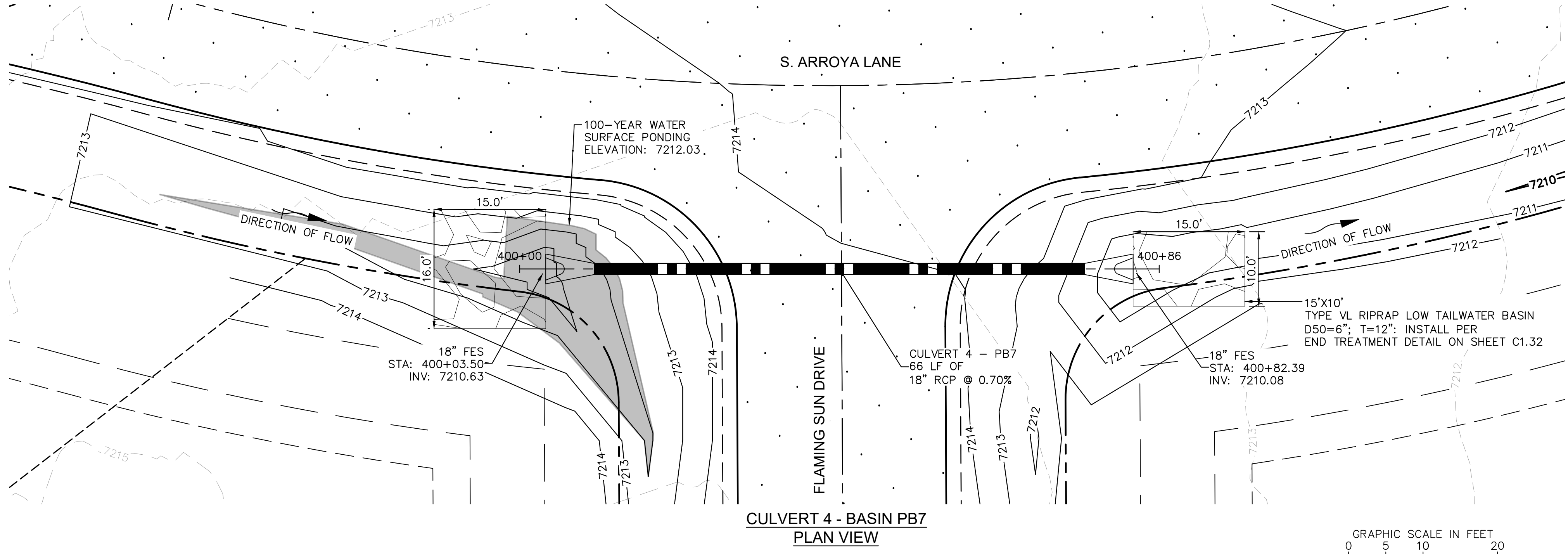


Know what's below.  
Call before you dig.



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



NOTES

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



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

C1.26







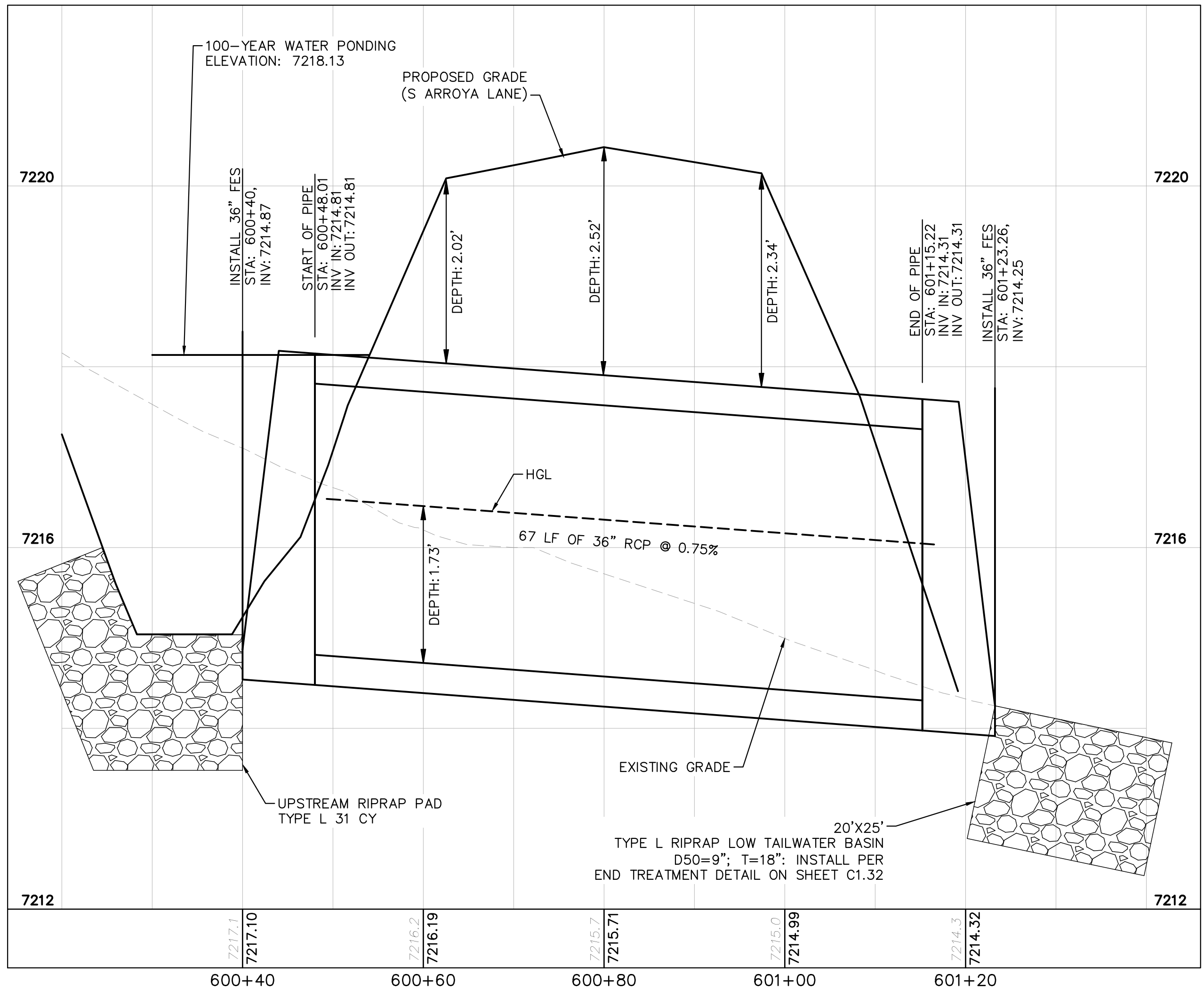
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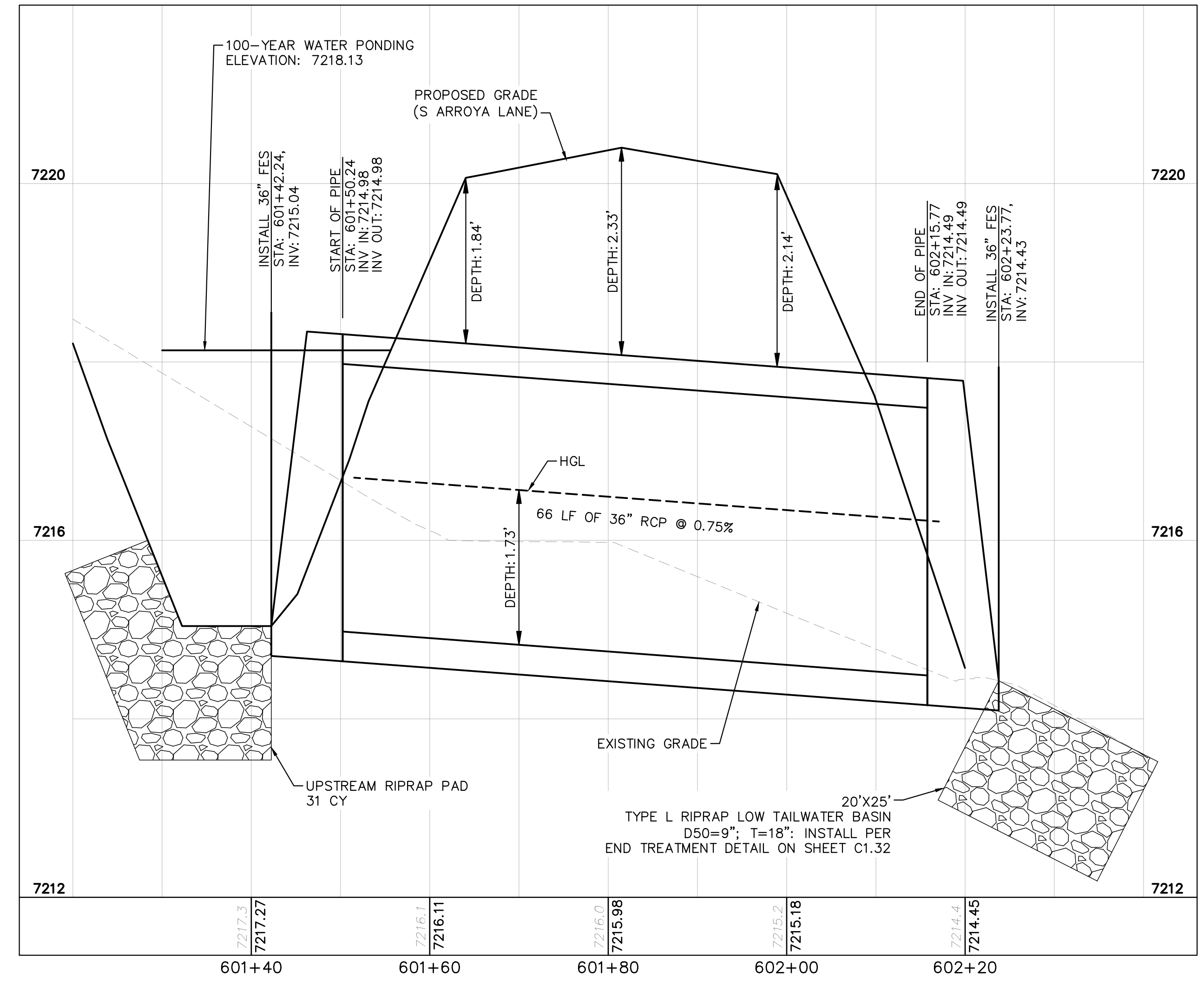
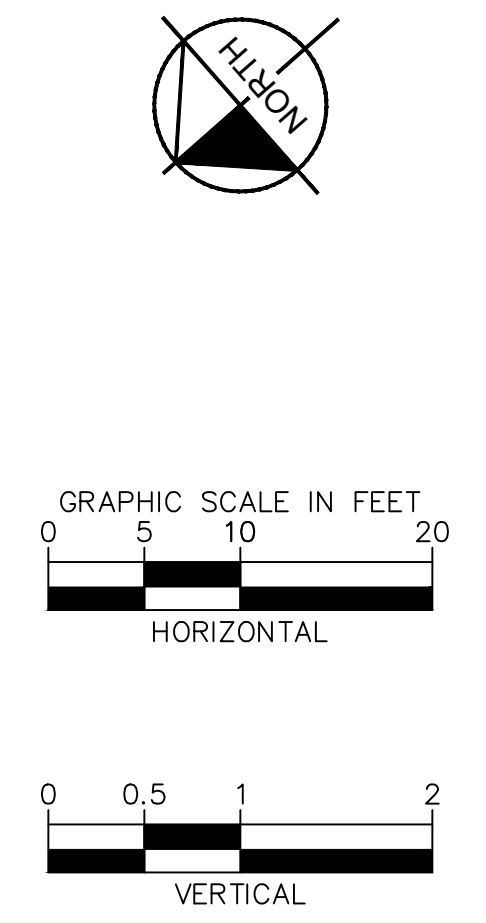
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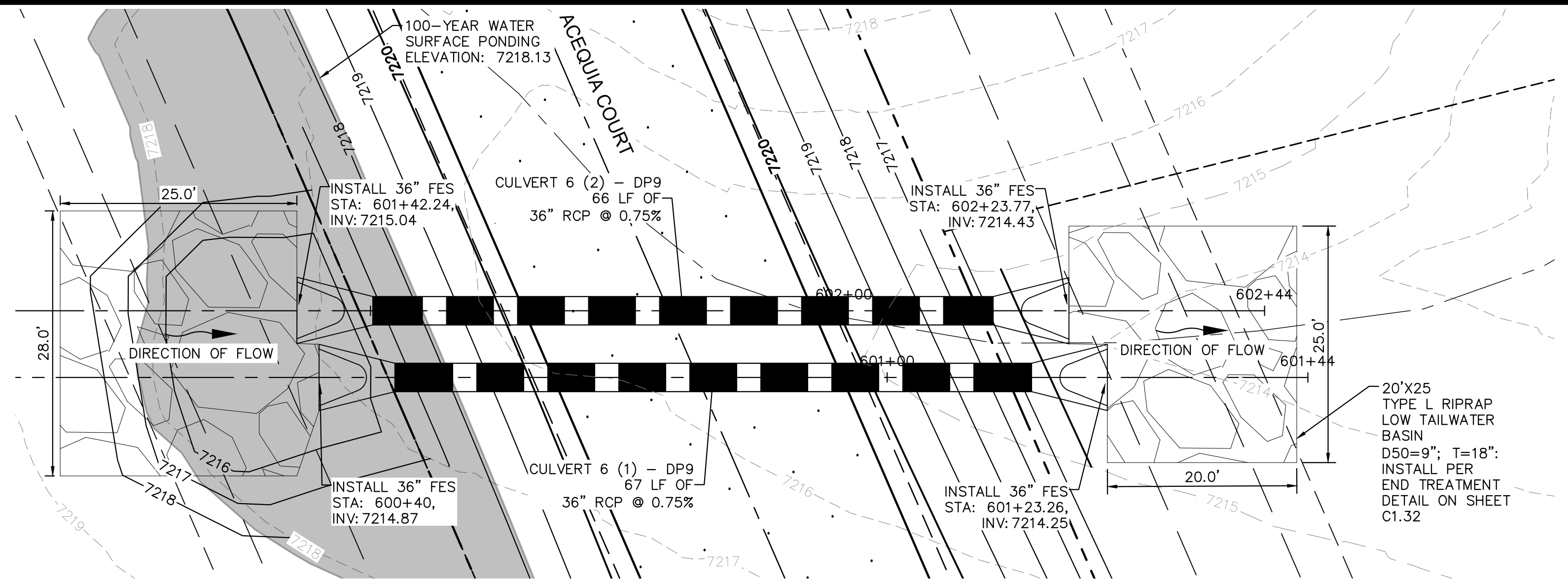
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CALL 2-BUSINESS DAYS IN ADVANCE  
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FOR THE MARKING OF UNDERGROUND  
MEMBER UTILITIES



CULVERT 6 (1) - DP9  
PROFILE VIEW



CULVERT 6 (2) - DP9  
PROFILE VIEW



CULVERT 6 - DP9  
PLAN VIEW

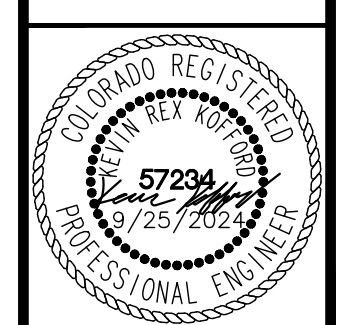
NOTES

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



PROJECT NO.  
196106001

SHEET

C1.28

NO	REVISION	BY	DATE	APPR
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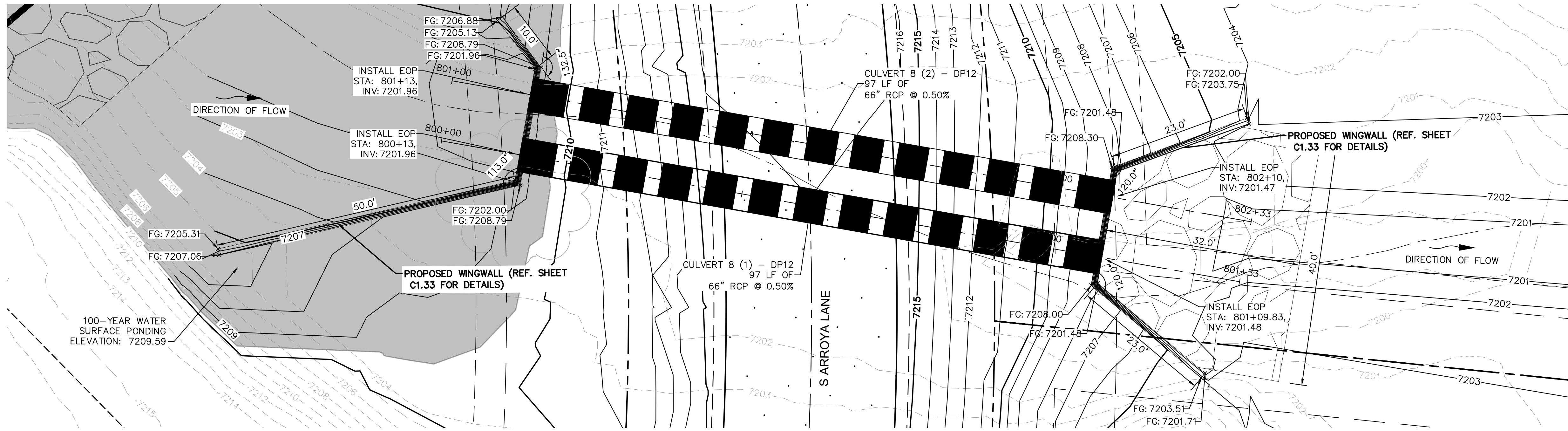
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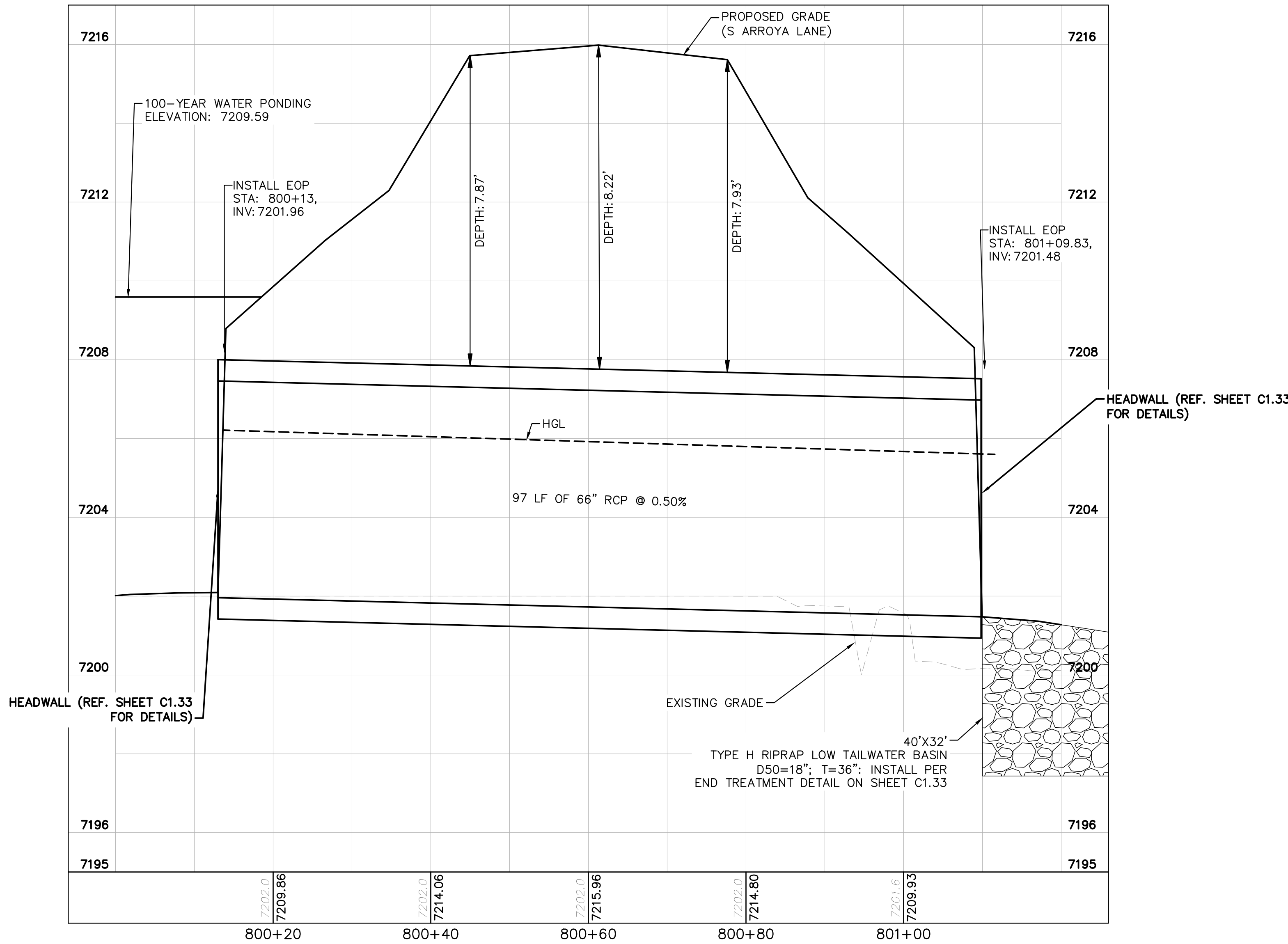
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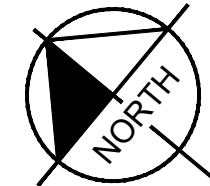
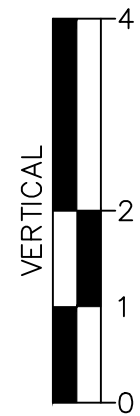
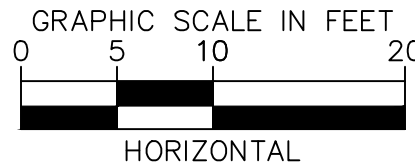
CALL UTILITY NOTIFICATION  
CENTER OF COLORADO  
1-800-922-1987  
CALL 2-BUSINESS DAYS IN ADVANCE  
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FOR THE MARKING OF UNDERGROUND  
MEMBER UTILITIES



CULVERT 8 (1) - DP12 PLAN VIEW



CULVERT 8 (1) - DP12 PROFILE VIEW



NOTES

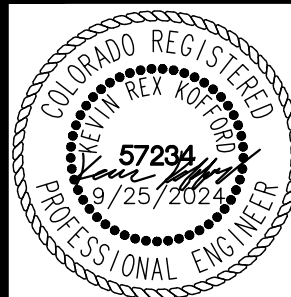
1. PIPE LENGTH SHOWN IS 2D PIPE LENGTH. CONTRACTOR TO VERIFY QUANTITIES FOR ACTUAL LENGTH.
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CHECKED BY: KRK  
DATE: 9/17/2024

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



PROJECT NO.  
196106001

SHEET

C1.30

PCD FILE #: SF-22-42

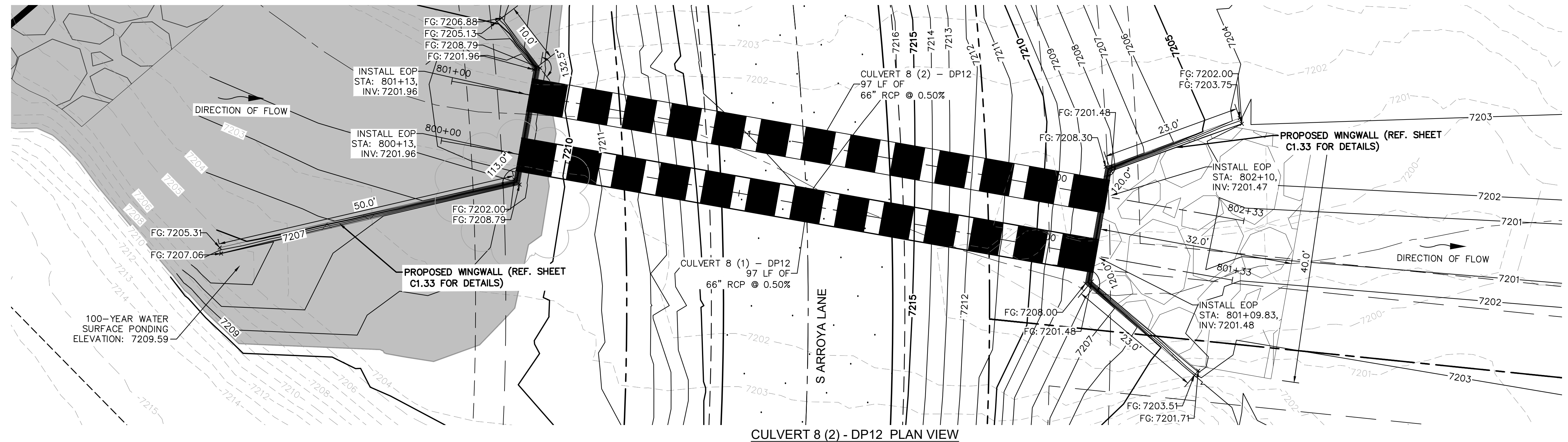
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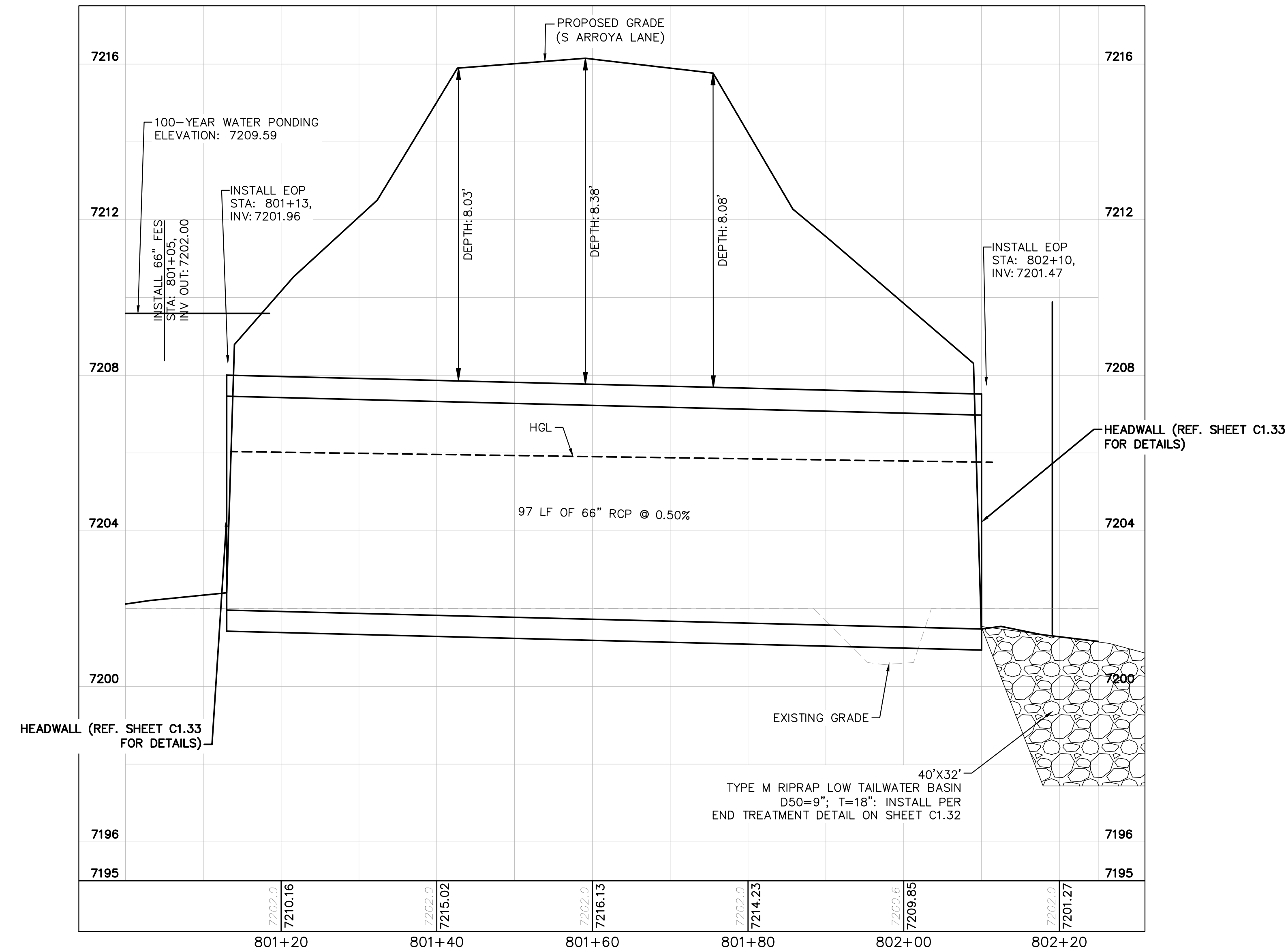
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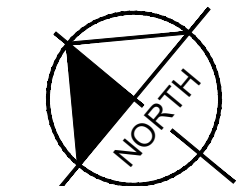
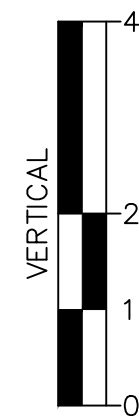
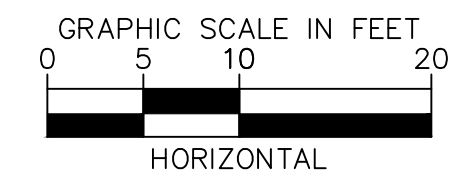
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1-800-922-1987  
CALL 2-BUSINESS DAYS IN ADVANCE  
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MEMBER UTILITIES



CULVERT 8 (2) - DP12 PLAN VIEW



CULVERT 8 (2) - DP12 PROFILE VIEW



NOTES

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EAGLEVIEW EL PASO COUNTY, COLORADO CONSTRUCTION DOCUMENTS CULVERT PLAN AND PROFILE		DESIGNED BY: MJK DRAWN BY: MJK CHECKED BY: KKK DATE: 9/17/2024	
		PROJECT NO. 196106001	
		SHEET C1.31	
		NO.	REVISION
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Colorado Springs, Colorado 80903 (719) 453-0180



## TYPICAL RIPRAP SECTION DETAIL

## Eagleview Low Tailwater Basin Summary Table

\* IF OUTLET PIPE IS A BOX CULVERT WITH A WIDTH GREATER THAN W, THEN  $W = \text{CULVERT WIDTH}$

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

[illegible]

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EAGLEVIEW  
EL PASO COUNTY, COLORADO  
CONSTRUCTION DOCUMENTS  
CULVERT END TREATMENT DETAILS



PROJECT NO.  
196106001

SHEET

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. CUTOFF WALL 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 REDUCED CONCRETE END SECTION.
6. EXCAVATION FOR RIPRAP SHALL BE INCLUDED IN THE COST OF THE RIPRAP.



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



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.

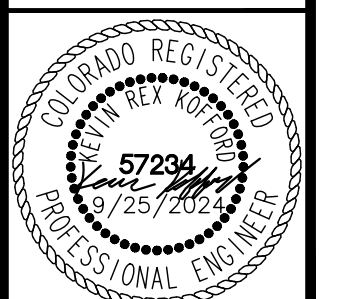
PLEASE REFERENCE CDOT M-STANDARD DETAIL  
M601-20 FOR ADDITIONAL DESIGN INFORMATION

[illegible]

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**EAGLEVIEW  
EL PASO COUNTY, COLORADO  
CONSTRUCTION DOCUMENTS  
CULVERT DETAILS**



PROJECT NO. 196106001
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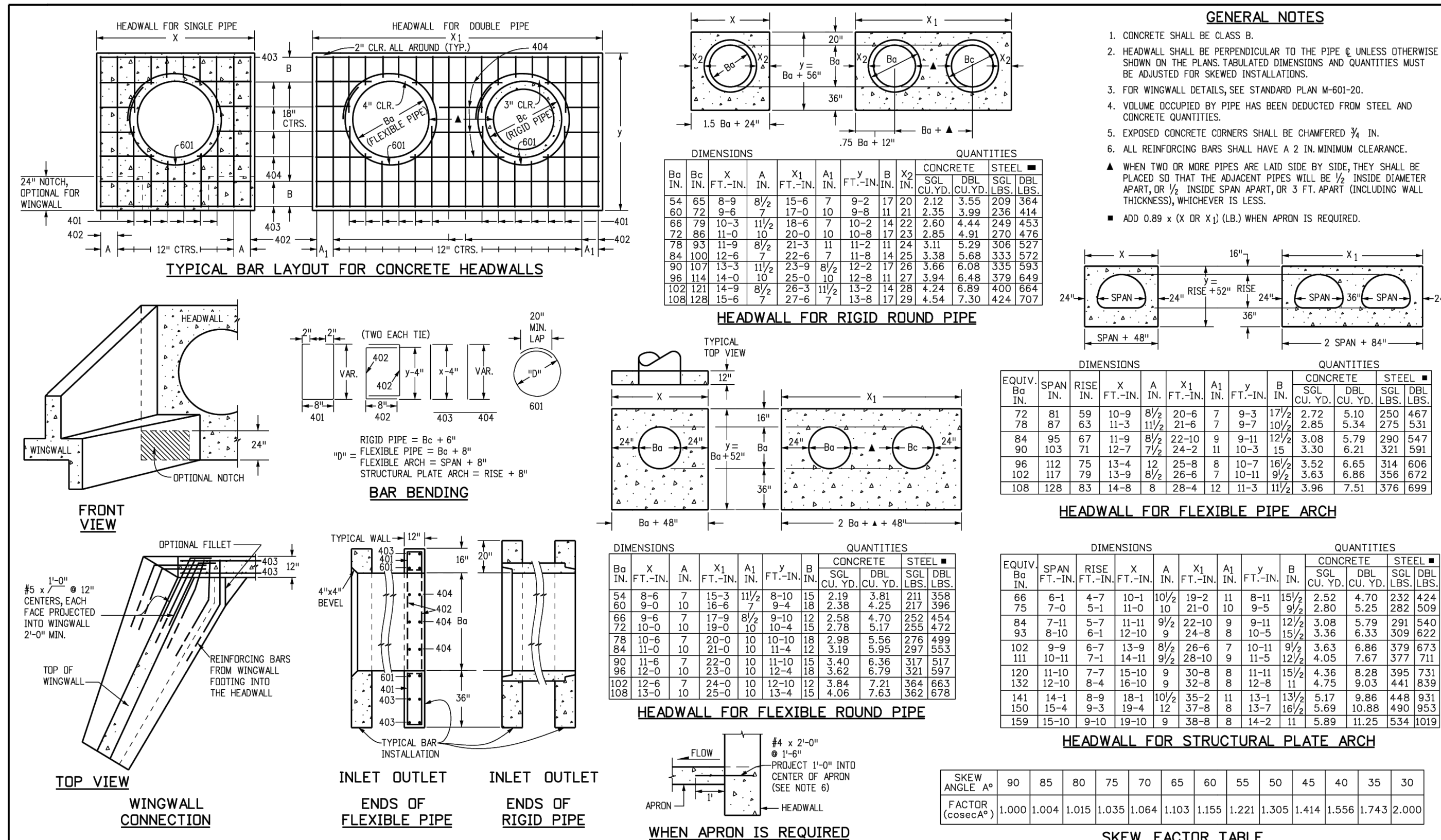
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C1.33

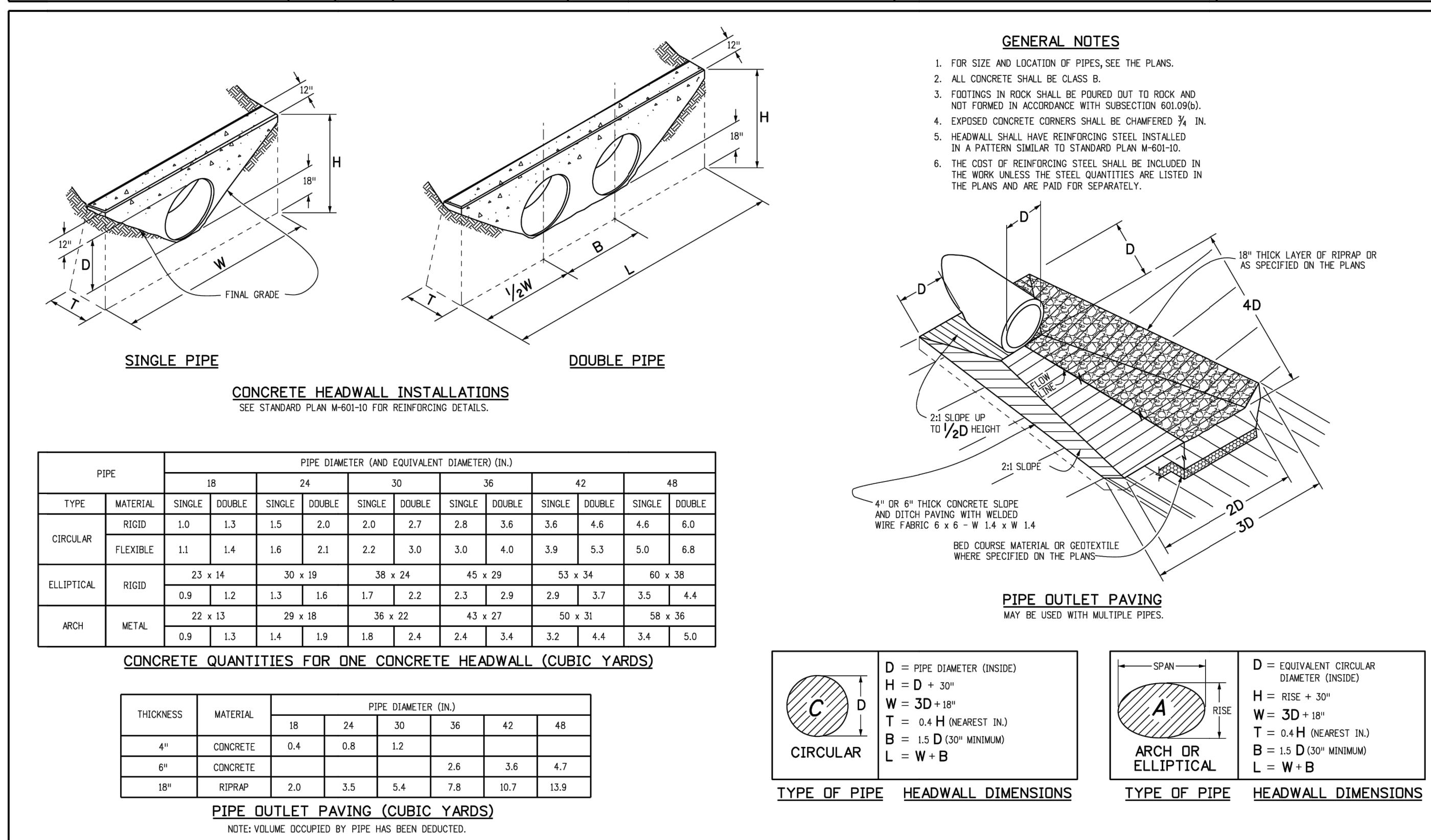
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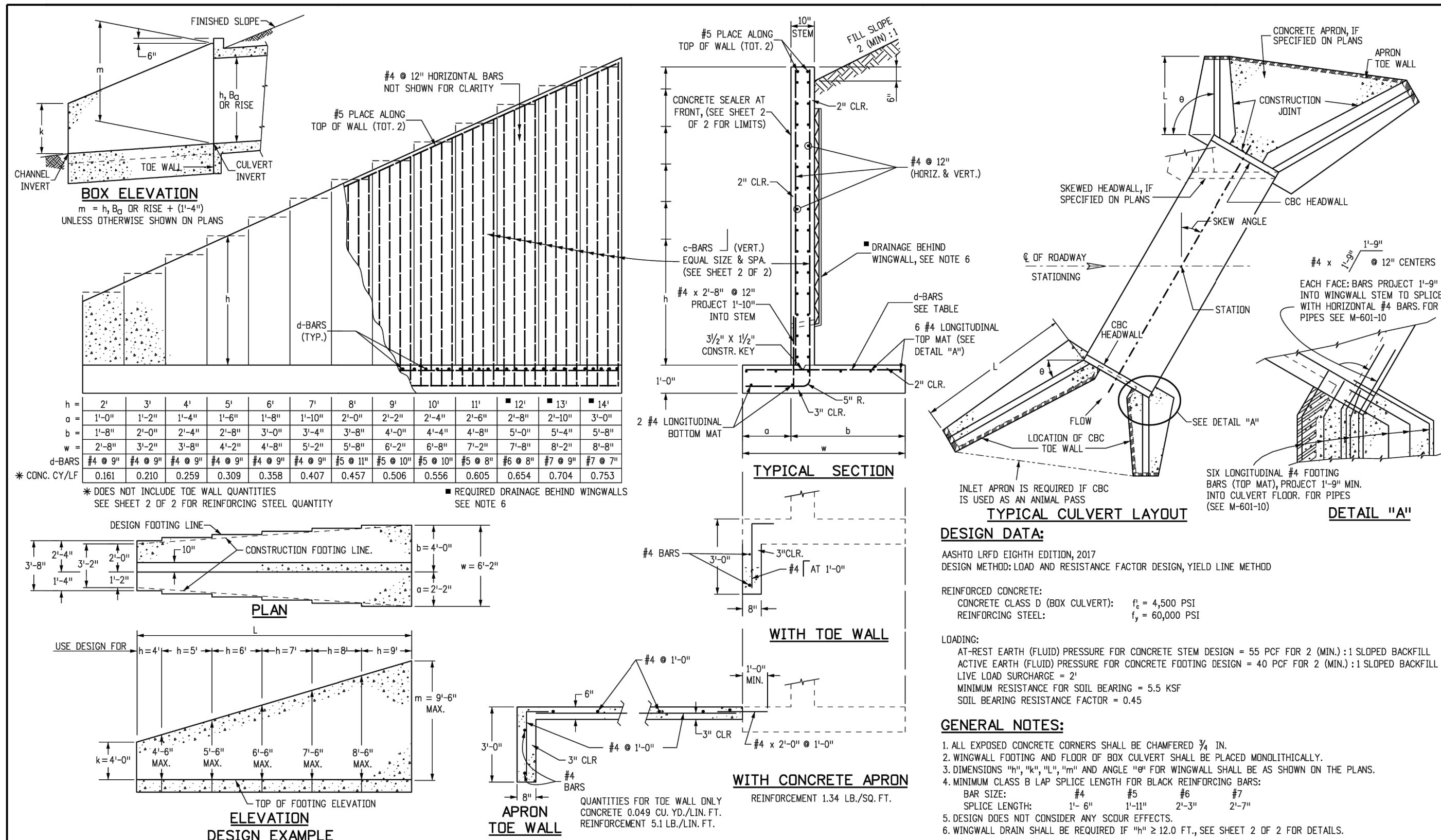




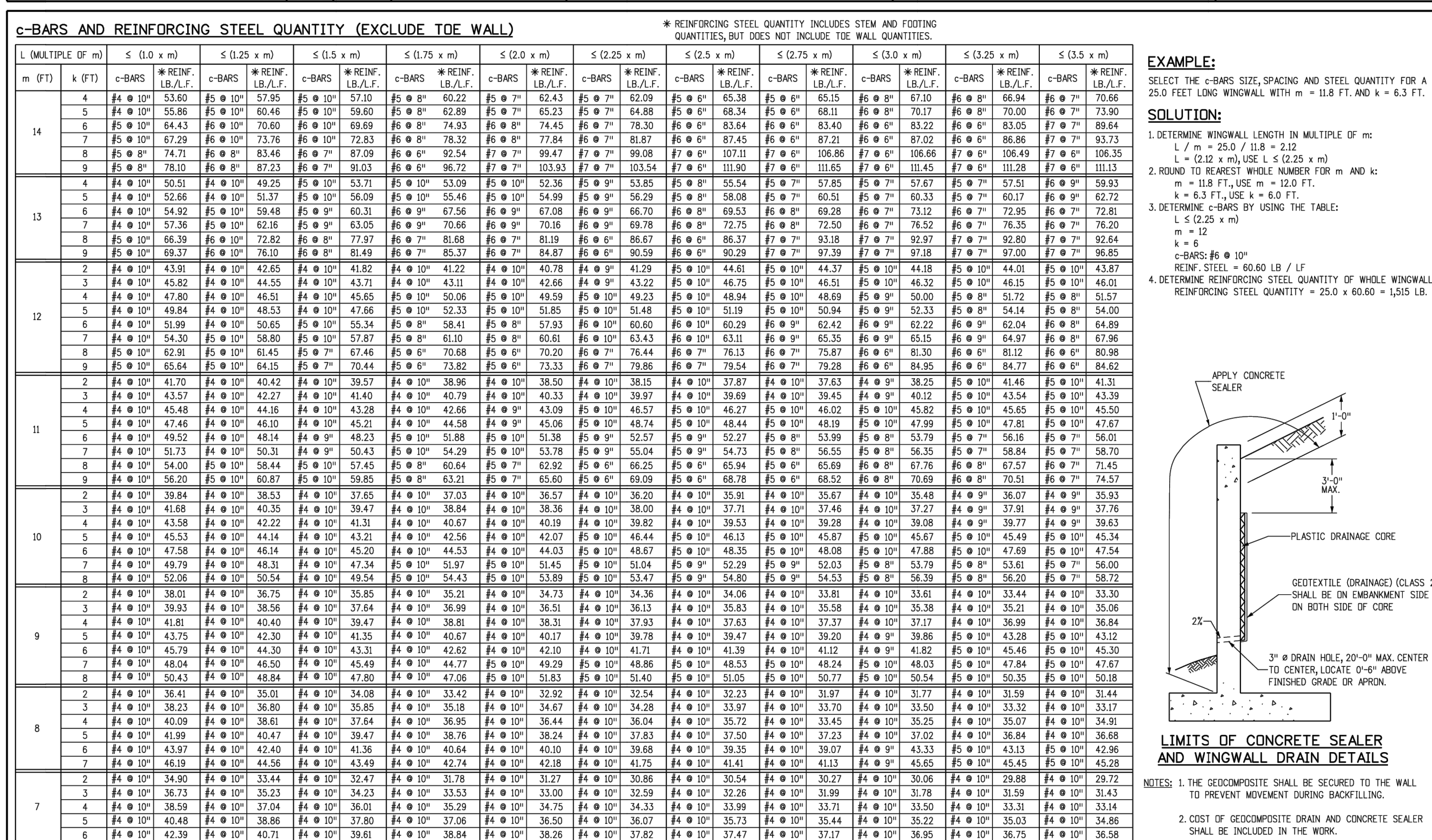
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Creation Date: 07/31/19	Initials: JBK	Date:	Comments:	2829 West Howard Place	CDOT HQ, 3rd Floor	M-601-10	
Designer: Initials: JBK				Denver, CO 80204	Phone: 303-757-9021 FAX: 303-757-9868	Standard Sheet No. 1 of 1	
Last Modification Date: 07/31/19				Project Development Branch	JBK	Project Sheet Number:	
Detailer: Initials: LTA							
CAD Ver: MicroStation V8 Scale: Not to Scale Units: English							



Computer File Information		Sheet Revisions		Colorado Department of Transportation		STANDARD PLAN NO.	
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Designer: Initials: JBK				Denver, CO 80204	Phone: 303-757-9021 FAX: 303-757-9868	Standard Sheet No. 1 of 1	
Last Modification Date: 07/31/19				Project Development Branch	JBK	Project Sheet Number:	
Detailer: Initials: LTA							
CAD Ver: MicroStation V8 Scale: Not to Scale Units: English							



Computer File Information		Sheet Revisions		Colorado Department of Transportation		WINGWALLS FOR PIPE OR BOX CULVERTS	
Creation Date: 07/04/12	Initials: HMB	Date:	Comments:	2829 West Howard Place	CDOT HQ, 3rd Floor	M-601-20	
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Computer File Information		Sheet Revisions		Colorado Department of Transportation		WINGWALLS FOR PIPE OR BOX CULVERTS	
Creation Date: 07/04/12	Initials: HMB	Date:	Comments:	2829 West Howard Place	CDOT HQ, 3rd Floor	M-601-20	
Last Modification Date: 09/04/18	Initials: HMB	09/04/18	LRFD Design	Denver, CO 80204	Phone: 303-757-9021 FAX: 303-757-9868	Standard Sheet No. 2 of 2	
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Drawing File Name: 6010220102.dgn							
CAD Ver: MicroStation V8 Scale: Not to Scale Units: English							

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DATE: 9/17/2024

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EL PASO COUNTY, COLORADO  
CONSTRUCTION DOCUMENTS  
HEADWALL & WINGWALL DETAILS

PROJECT NO.  
196106001

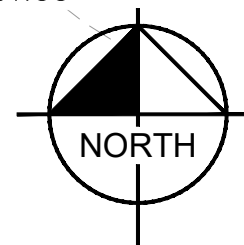
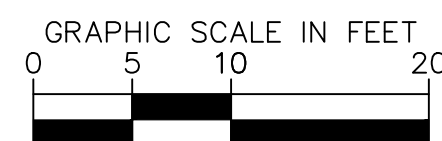
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C1.34



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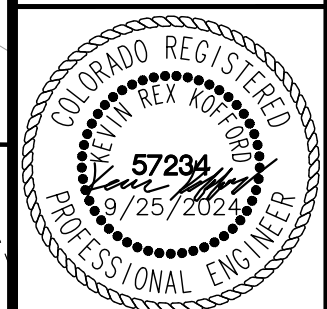
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**EAGLEVIEW  
EL PASO COUNTY, COLORADO  
CONSTRUCTION DOCUMENTS  
WATER QUALITY POND #1**



PROJECT NO. 196106001
SHEET

C1.35



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#### ORIFICE PLATE NOTES

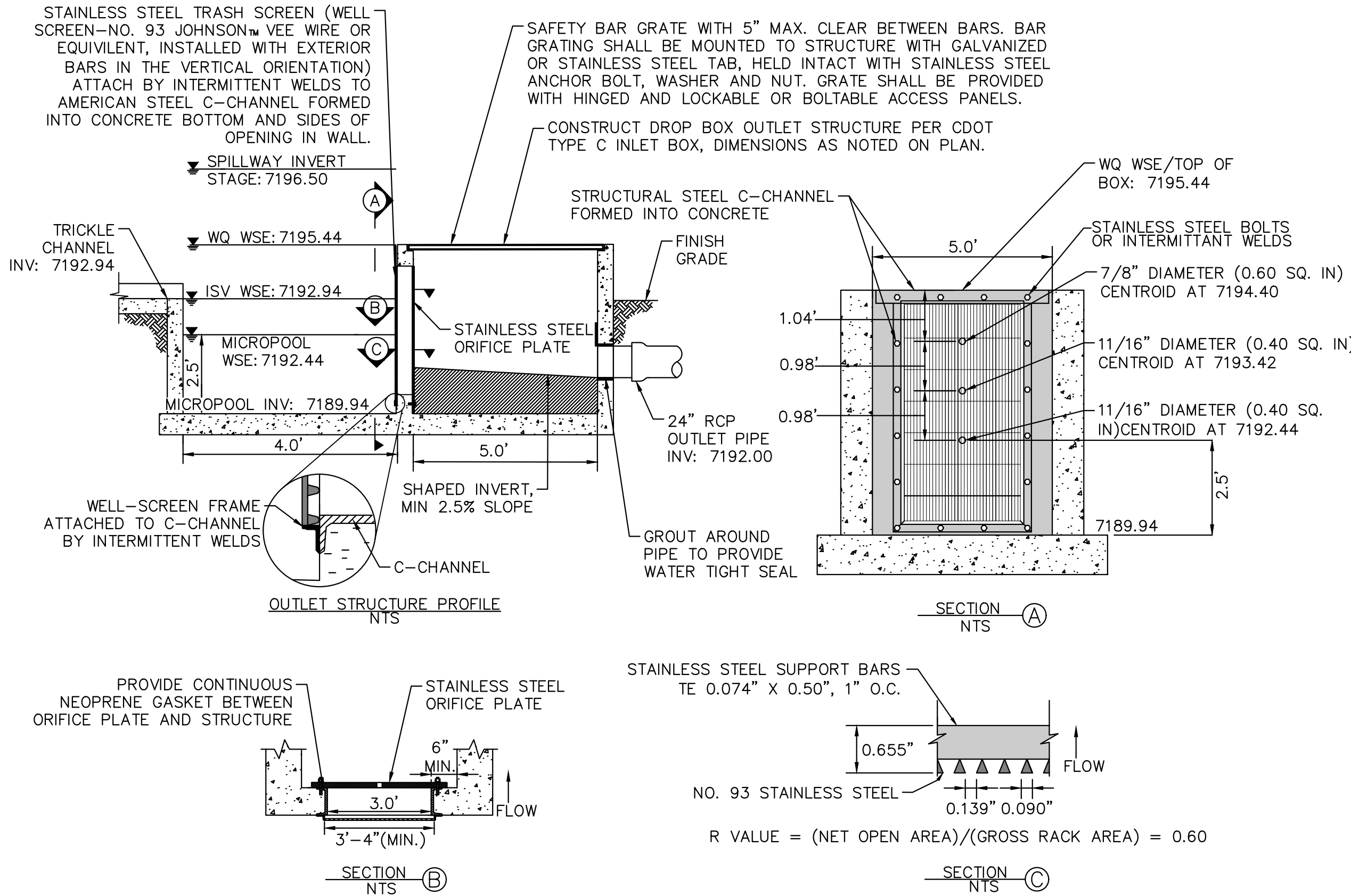
1. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE.
2. BOLT PLATE TO CONCRETE 12" MAX. ON CENTER, WITH A PLATE THICKNESS OF 0.25".

#### EURV AND WQCV TRASH RACKS

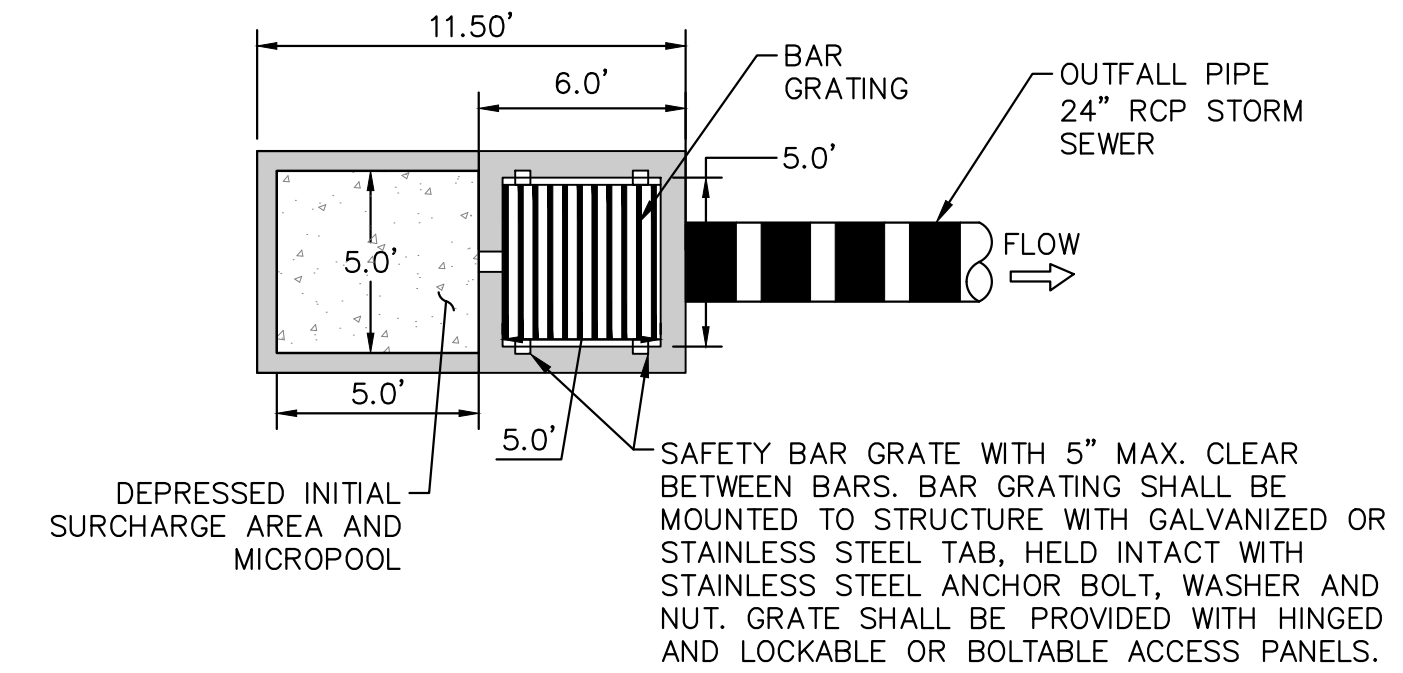
1. WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
2. BAR GATE TRASH RACKS SHALL BE ALUMINUM AND SHALL BE BOLTED USING STAINLESS STEEL HARDWARE.
3. TRASH RACK OPEN AREAS ARE FOR SPECIFIED TRASH RACK MATERIALS. TOTAL TRASH 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

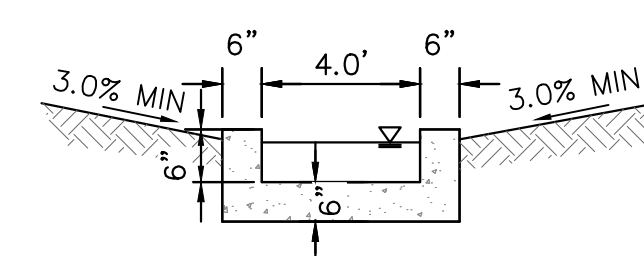
1. ALL SAFETY GRATES SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR BOLTABLE ACCESS PANELS.
2. SAFETY GRATES SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL GRATES SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
3. SAFETY GRATES 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.



OUTLET STRUCTURE PROFILE DETAIL  
N.T.S.

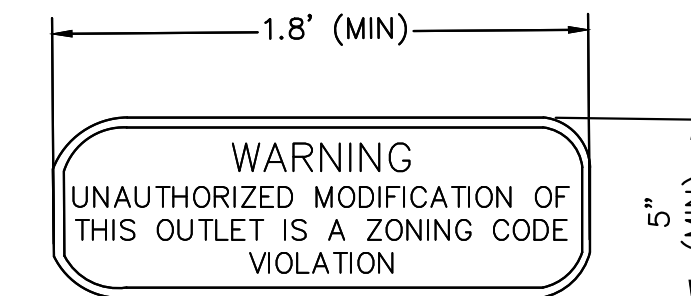


OUTLET STRUCTURE PLAN VIEW DETAIL  
N.T.S.



CONCRETE TRICKLE CHANNEL  
1"=5'

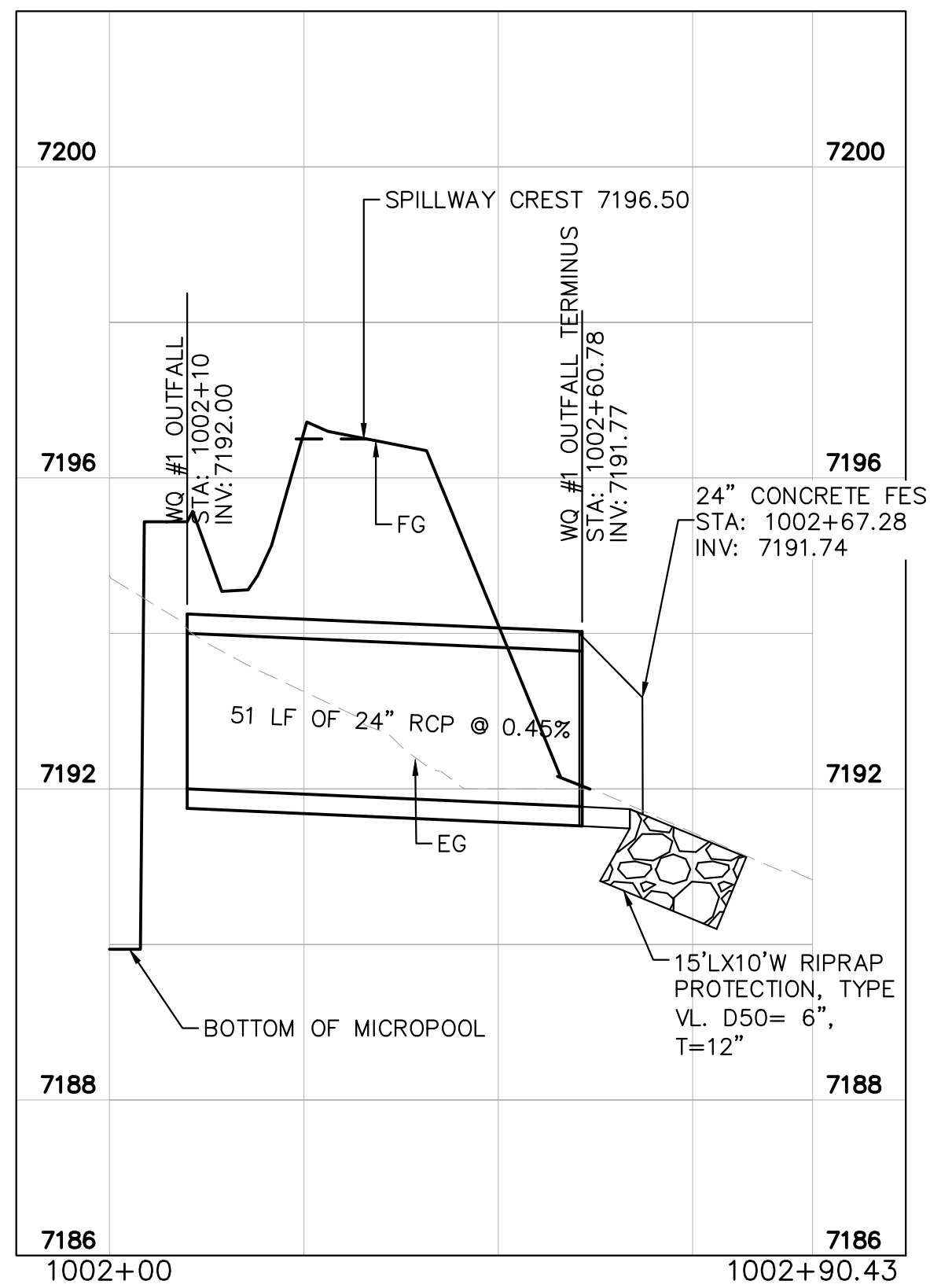
- \* CONTRACTOR TO INSTALL CONTROL JOINTS @ 10' SPACING



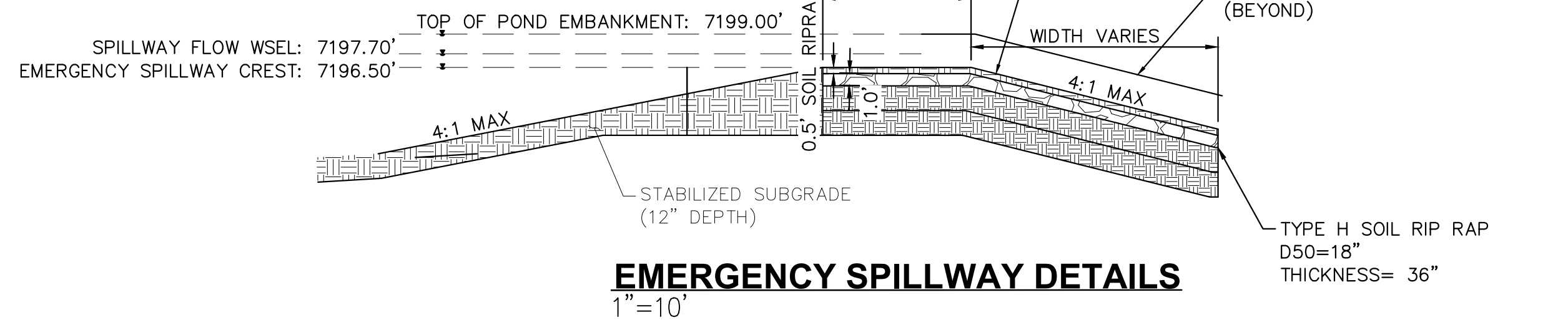
OUTLET SIGNAGE  
N.T.S.

#### OUTLET SIGNAGE NOTES

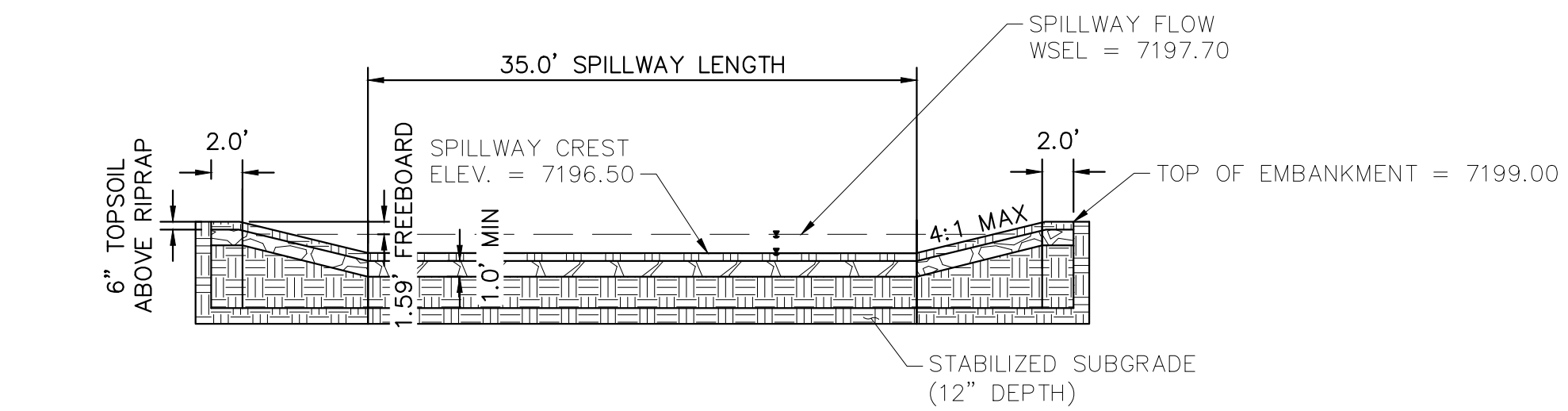
1. SIGN SHALL BE A MINIMUM OF 0.75 SQUARE FEET AND SHALL BE ATTACHED TO THE OUTLET OR POSTED NEARBY.



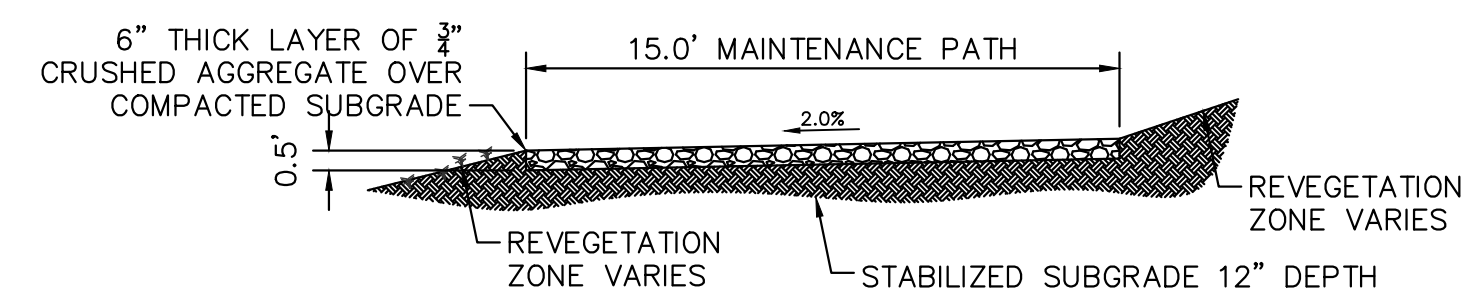
WATER QUALITY #1 OUTFALL  
1"=20'



EMERGENCY SPILLWAY DETAILS  
1"=10'



EMERGENCY SPILLWAY  
1"=10'



MAINTENANCE ROAD  
1"=5'

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

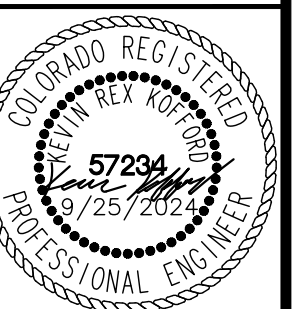


NO.	REVISION	BY	DATE	APPR

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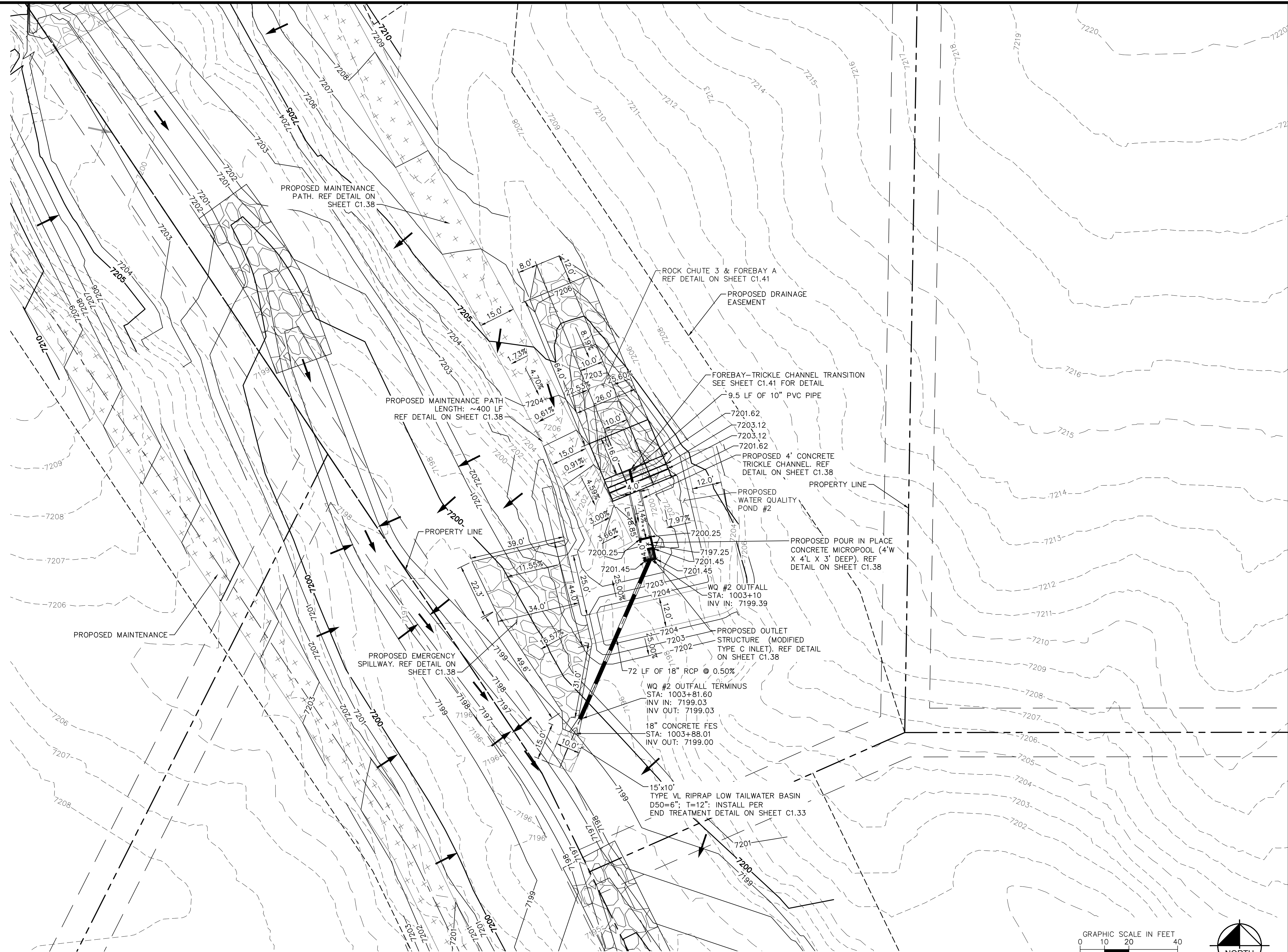
EAGLEVIEW  
EL PASO COUNTY, COLORADO  
CONSTRUCTION DOCUMENTS  
WATER QUALITY POND #1 DETAILS



PROJECT NO.  
196106001

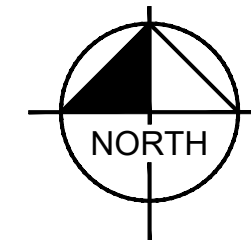
SHEET

C1.36



GRAPHIC SCALE IN FEET

0 10 20 40



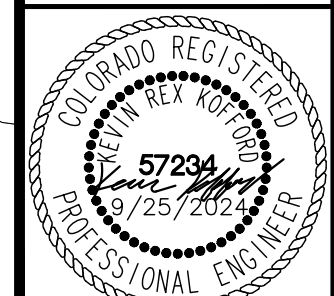
PCD FILE #: SF-22-42

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



PROJECT NO. 196106001
SHEET

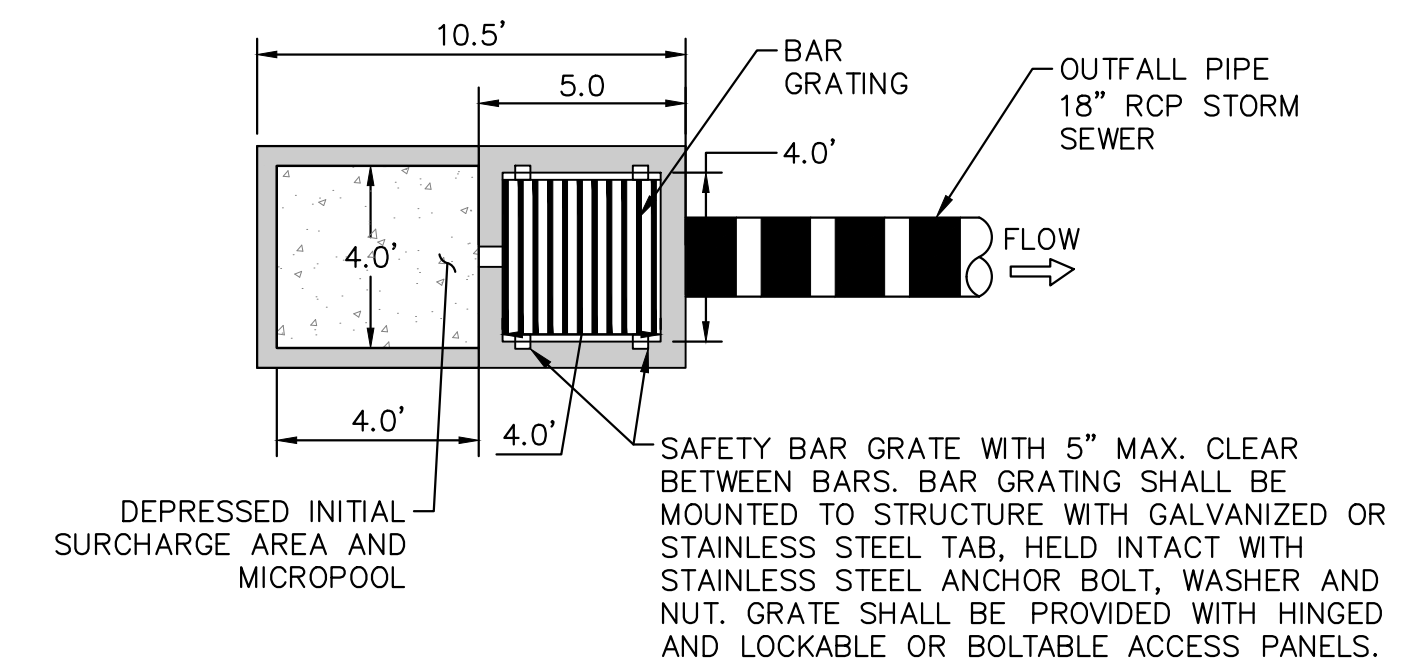
C1.37



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".

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.

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.

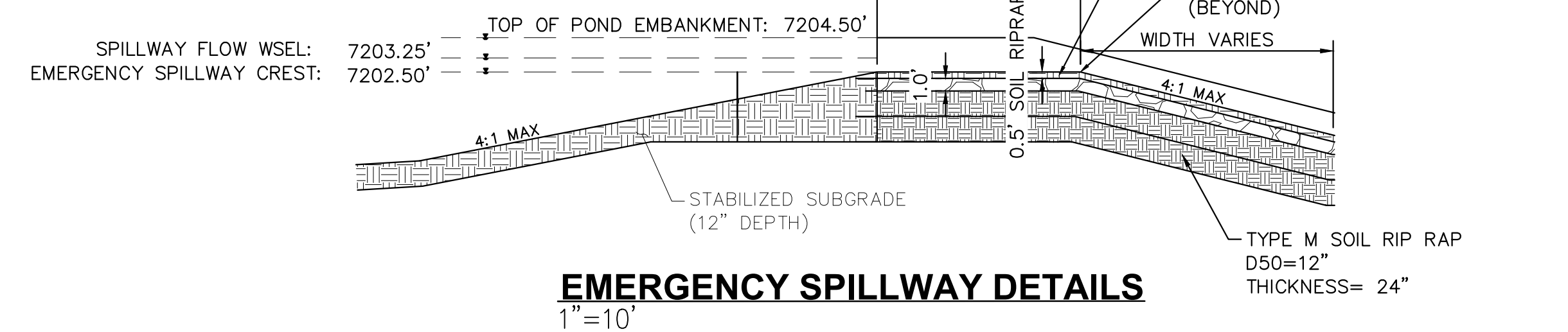
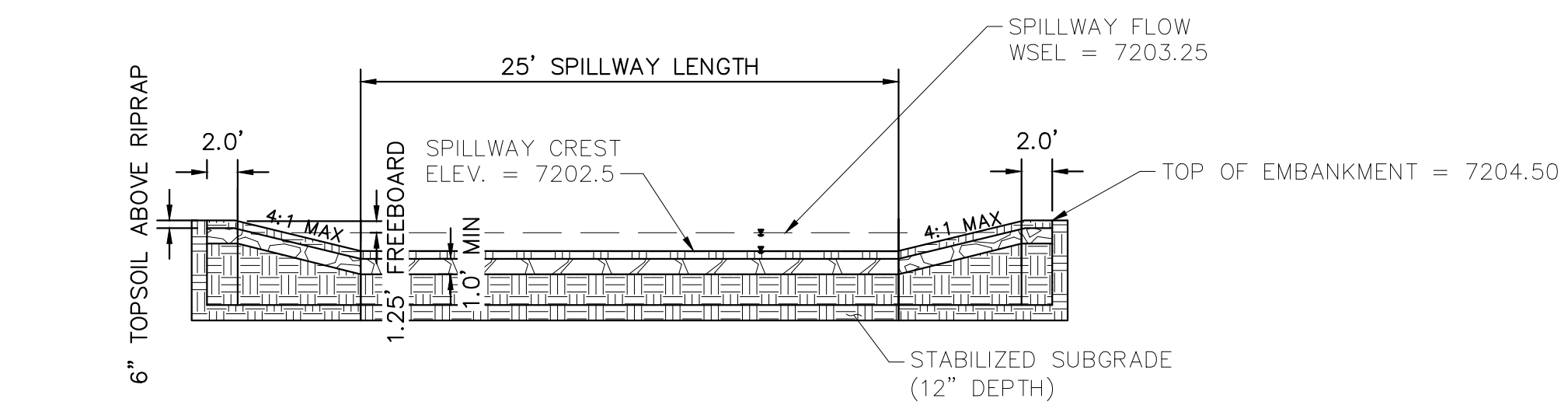
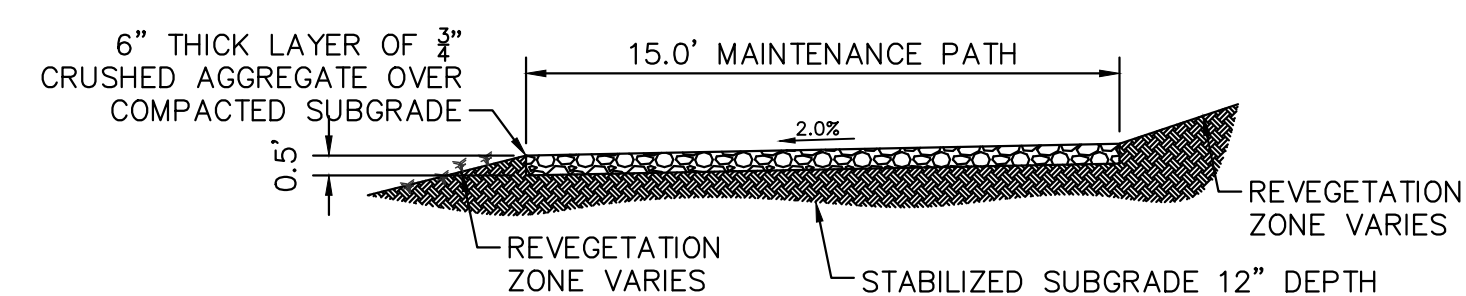


A cross-sectional diagram of a bridge deck. It features a central rectangular opening that is 4.0 feet wide. On either side of this opening are vertical walls, each 6 inches thick. The top surface of the bridge deck is sloped, with a minimum 3.0% slope indicated on both the left and right sides. The bottom of the central opening is also 6 inches wide. The diagram is used to illustrate the geometry for calculating the effective width of the bridge deck.

\* CONTRACTOR TO INSTALL  
CONTROL JOINTS @ 10' SPACING

OUTLET SIGNAGE NOTES

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


$$1'' = 1\text{C}$$
 $1'' = 10'$ 
$$1''=5'$$

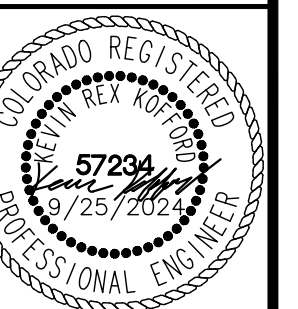
- MAINTENANCE PATH NOTES
1. MAINTENANCE PATH SHALL INCLUDE SUBGRADE PREPARATION, GRAVEL BASE, AND COMPACTION.

[illegible]

**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  
**WATER QUALITY POND #2 DETAILS**



PROJECT NO.	96106001
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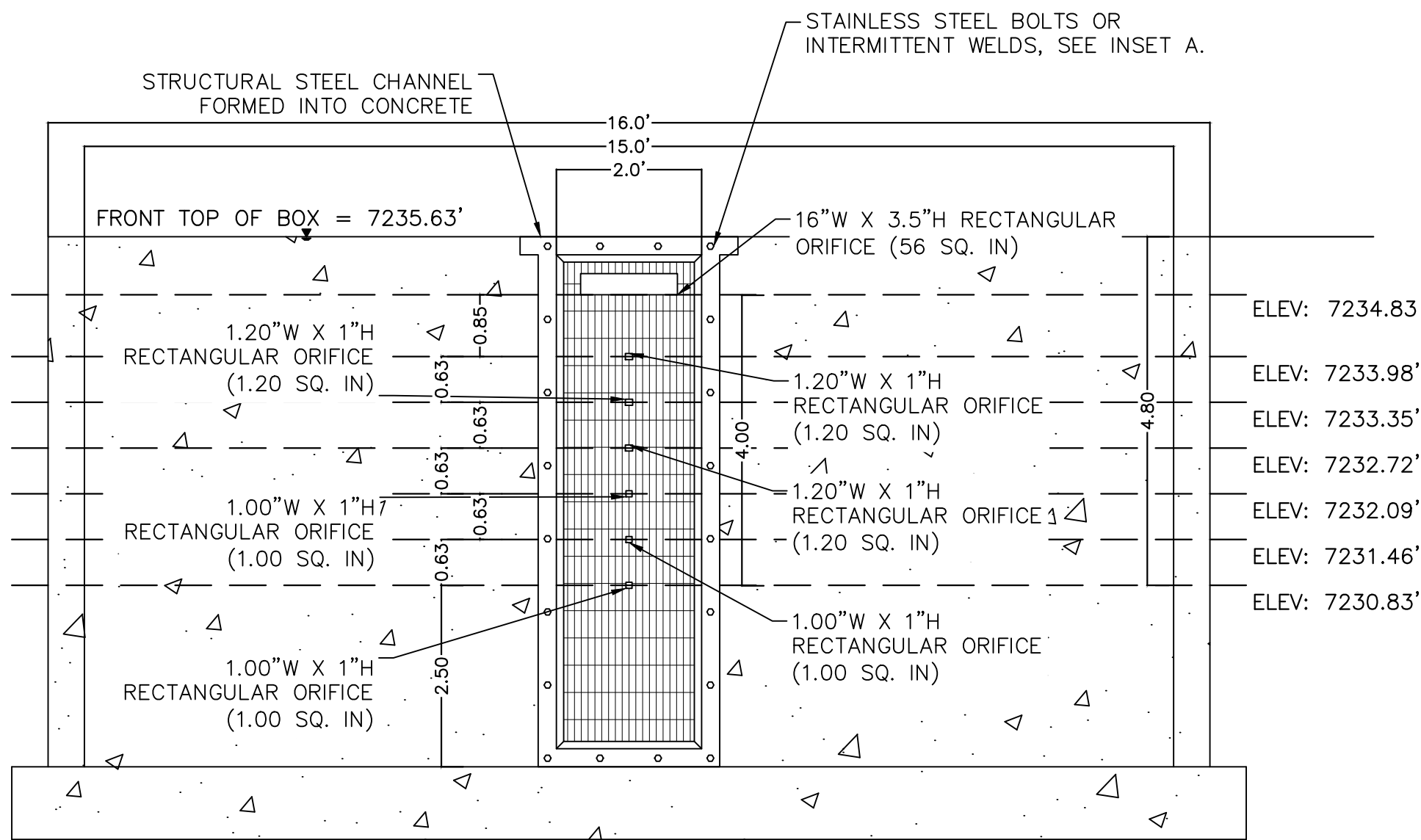
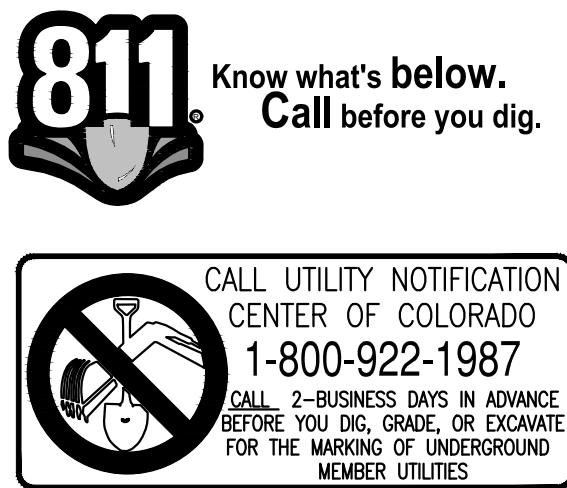
SHEET

C1.38





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**ORIFICE PLATE AND TRASH RACK DETAIL**  
1"=2'

**ORIFICE PLATE NOTES**

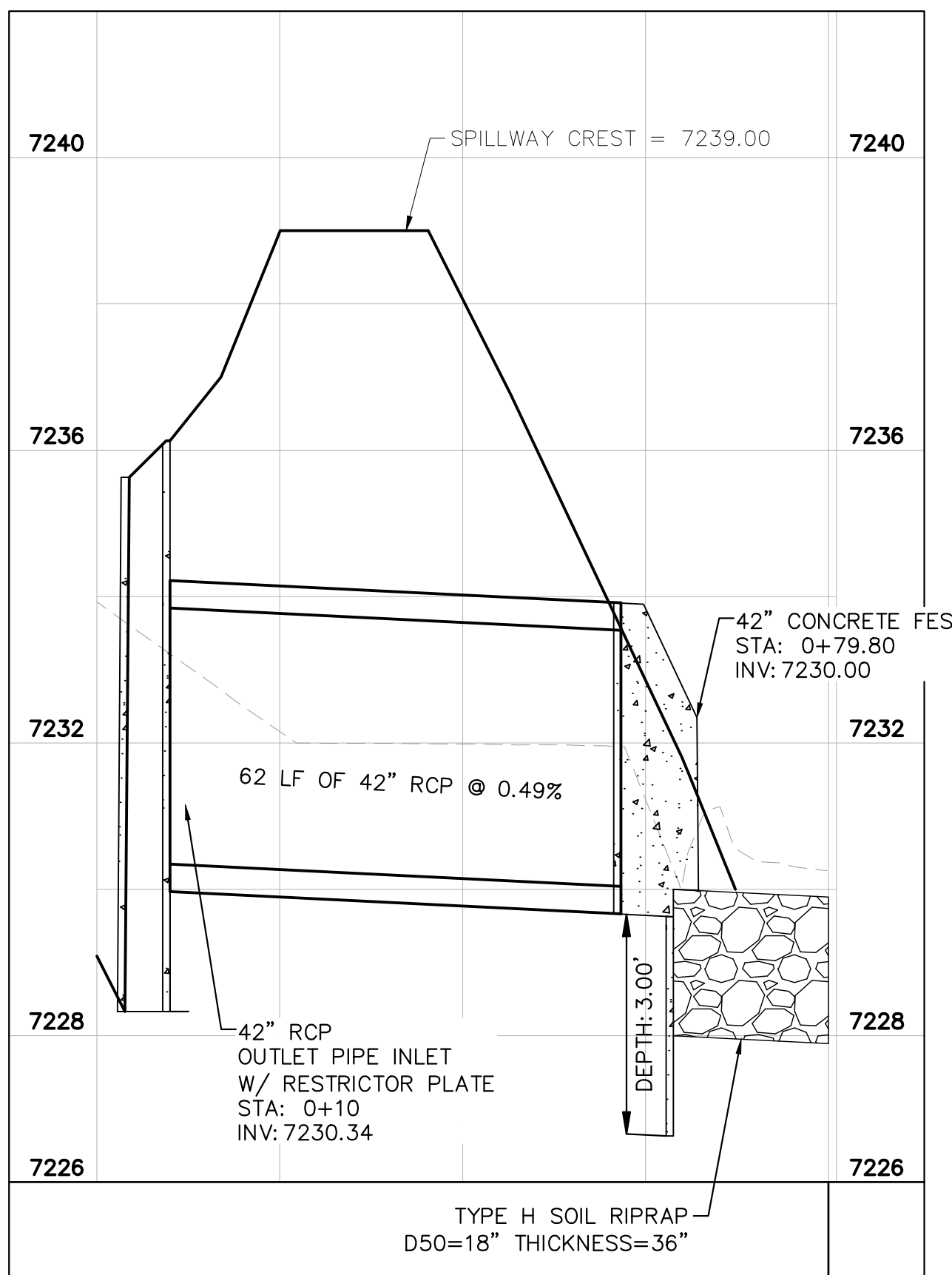
1. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE.
2. BOLT PLATE TO CONCRETE 12" MAX. ON CENTER. WITH A PLATE THICKNESS OF 0.25".

**EURV AND WQCV TRASH RACKS**

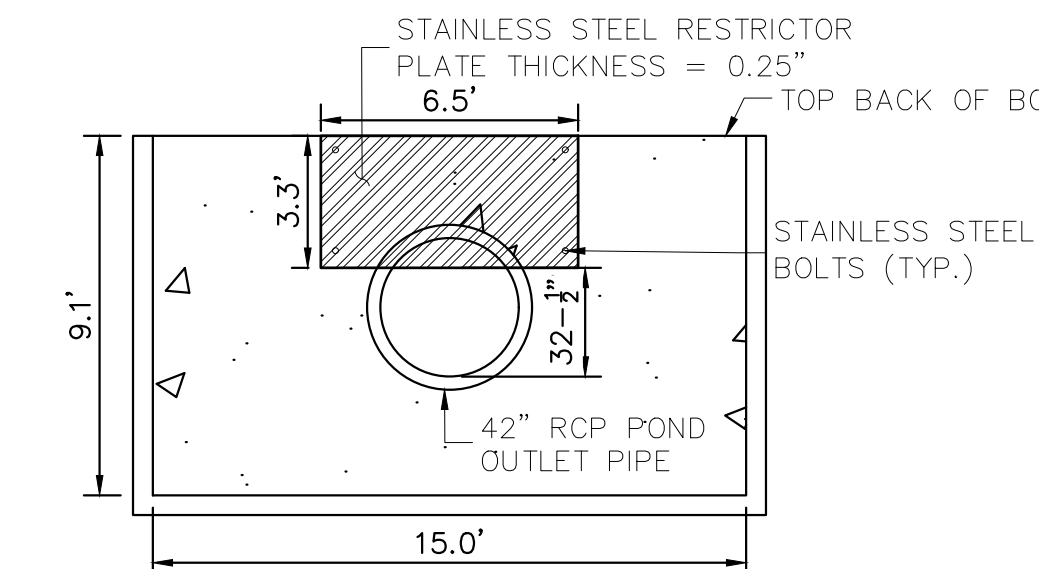
1. WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
2. BAR GATE TRASH RACKS SHALL BE ALUMINUM AND SHALL BE BOLTED USING STAINLESS STEEL HARDWARE.
3. TRASH RACK OPEN AREAS ARE FOR SPECIFIED TRASH RACK MATERIALS. TOTAL TRASH 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**

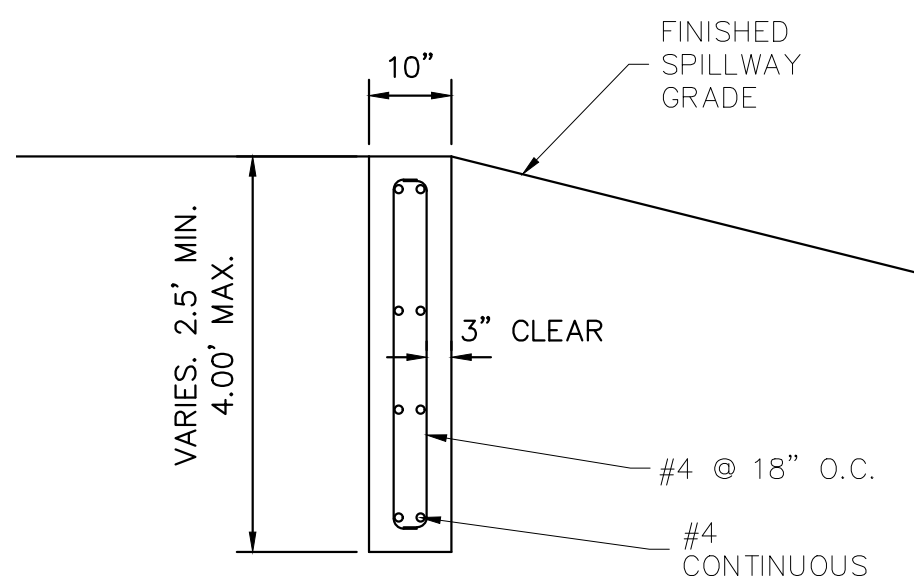
1. ALL SAFETY GRATES SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR BOLTABLE ACCESS PANELS.
2. SAFETY GRATES SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL GRATES SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
3. SAFETY GRATES SHALL BE DESIGNED SUCH THAT THE DIAGONAL DIMENSION OF EACH OPENING IS SMALLER THAN THE DIAMETER OF THE OUTLET PIPE.
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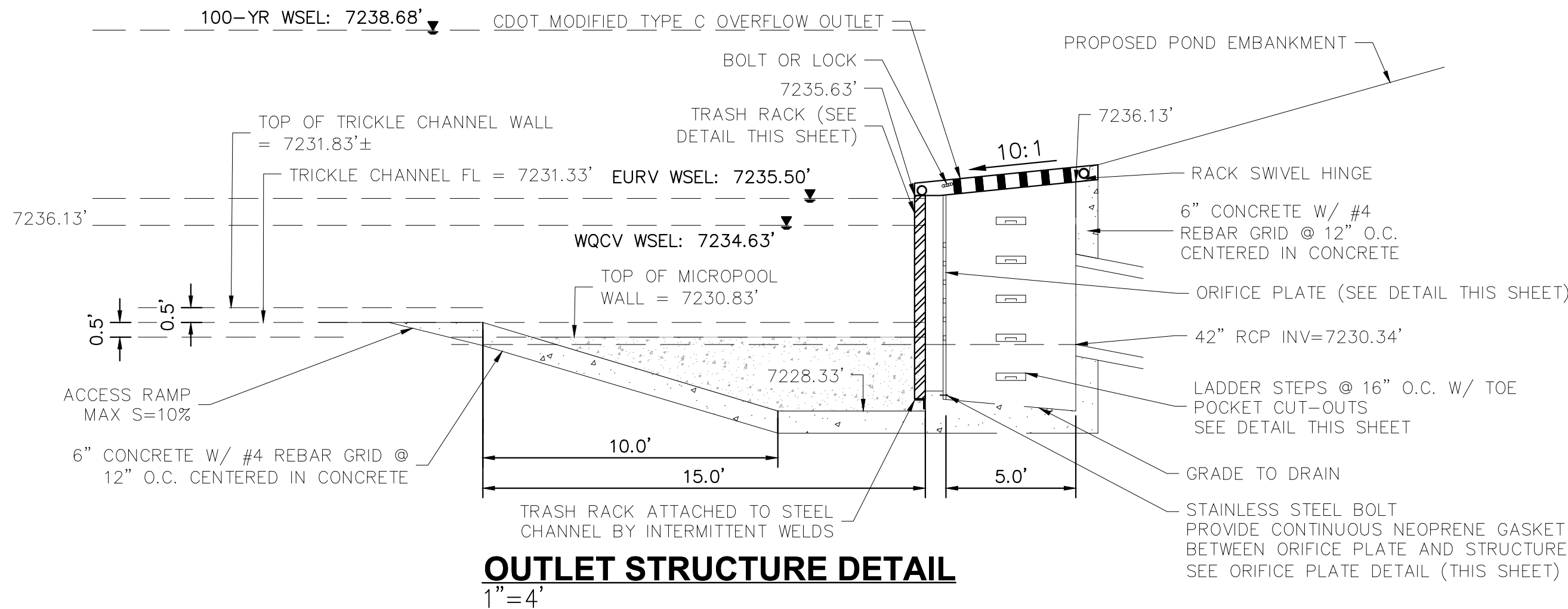
**POND #3 OUTFALL PROFILE**  
1"=20'



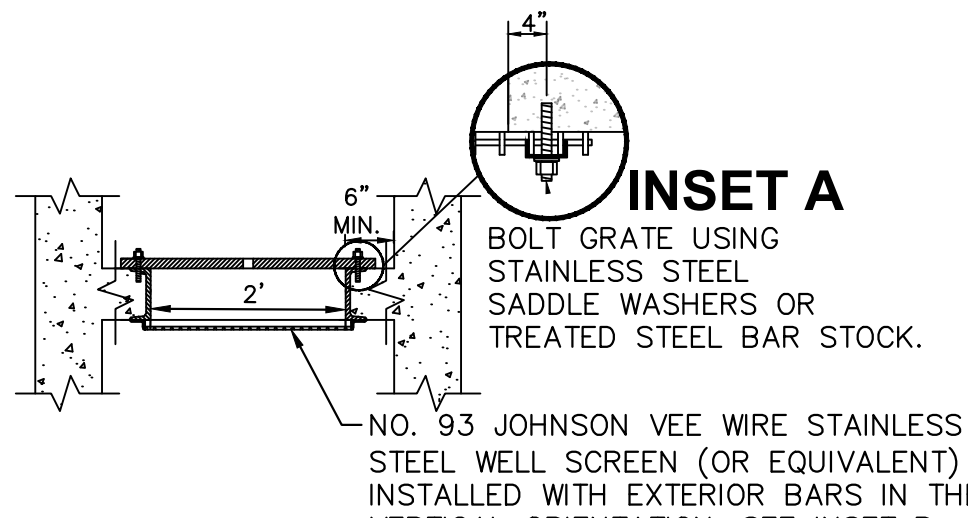
**100-YEAR FLOW RESTRICTOR**  
1"=5'



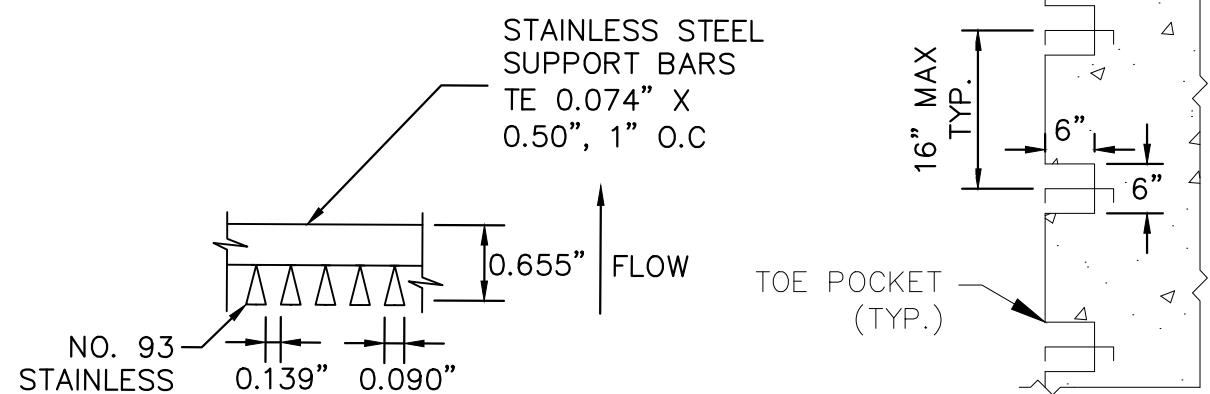
**SECTION CREST WALL DETAIL**  
1"=2'



**OUTLET STRUCTURE DETAIL**  
1"=4'

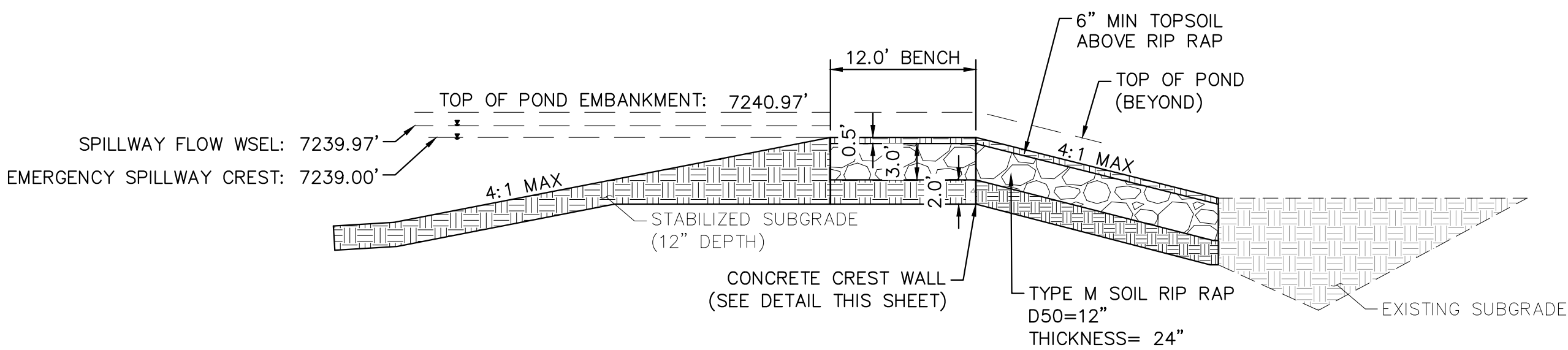


**TRASH RACK**  
N.T.S.

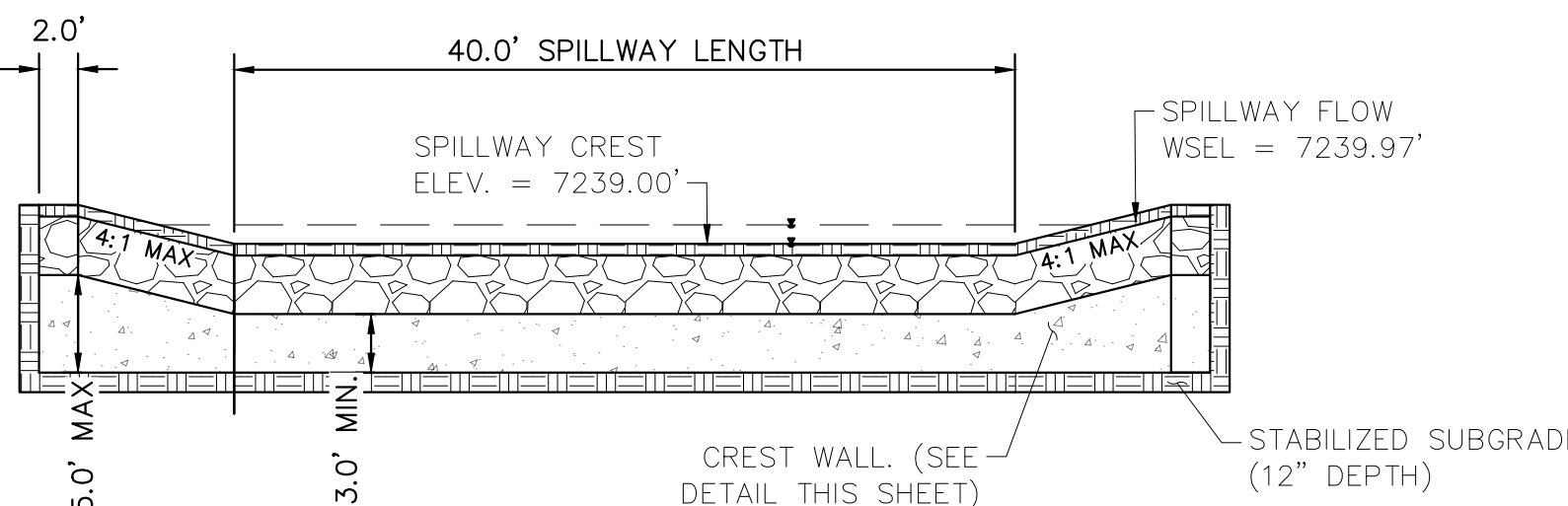


**INSET B**  
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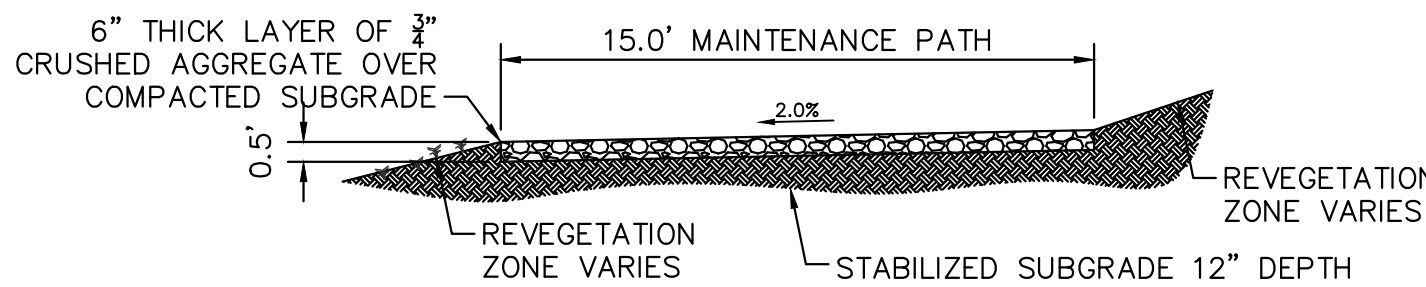
**TOE POCKET DETAIL**  
N.T.S.



**EMERGENCY SPILLWAY DETAILS**  
1"=10'

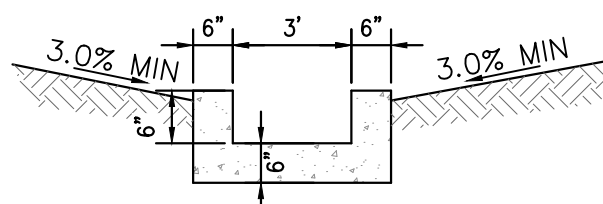


**EMERGENCY SPILLWAY**  
1"=10'



**MAINTENANCE ROAD**  
1"=5'

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



**CONCRETE TRICKLE CHANNEL**  
1"=5'

- \* CONTRACTOR TO INSTALL CONTROL JOINTS @ 10' SPACING

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

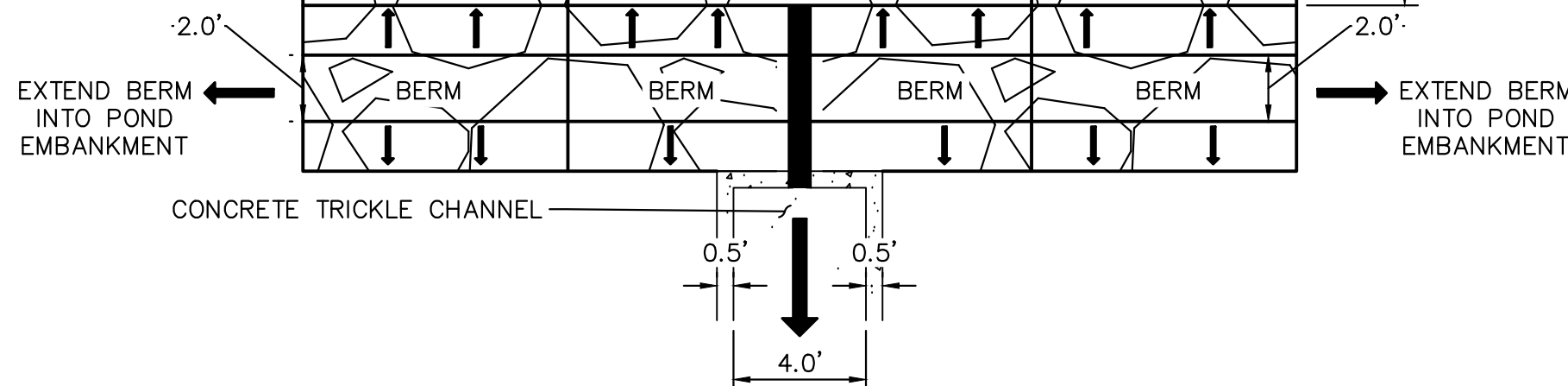
EAGLEVIEW  
EL PASO COUNTY, COLORADO  
CONSTRUCTION DOCUMENTS  
POND 3 DETAILS



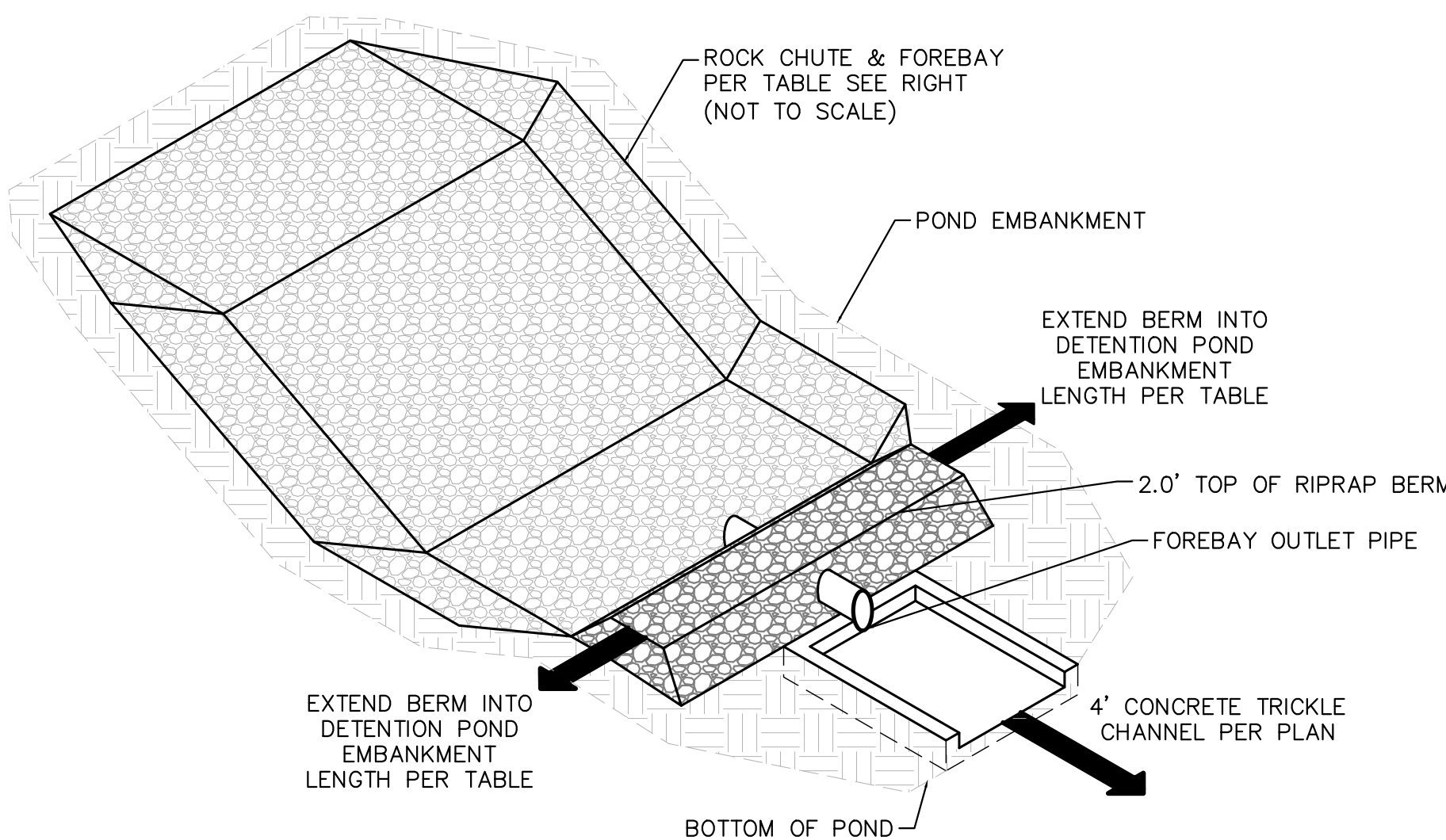
PROJECT NO.  
196106001  
SHEET

**C1.40**

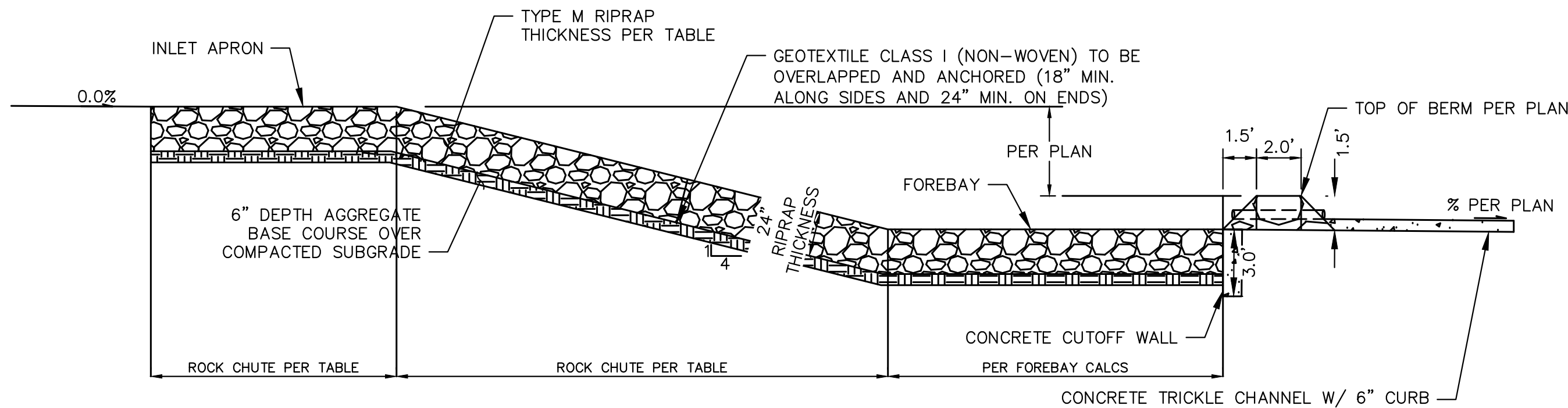
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**ROCK CHUTE - PLAN DETAIL**  
1" = 5'



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



### ROCK CHUTE PROFILE - POND TRICKLE CHANNEL APPLICATION

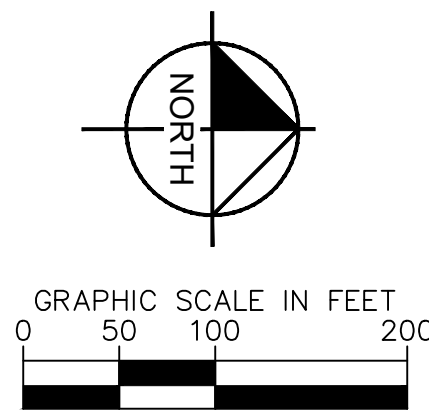
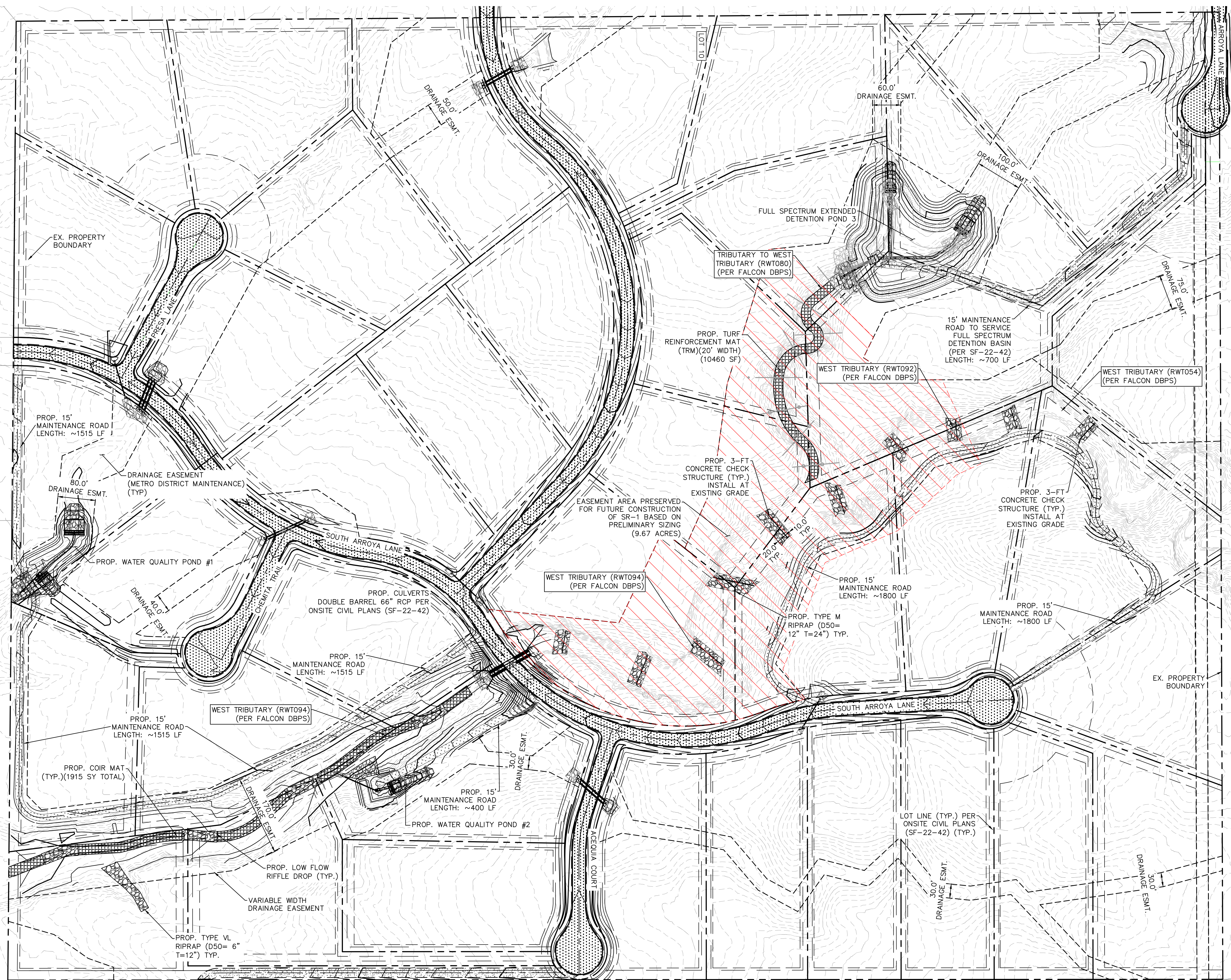
ROCK CHUTE & FOREBAY DETAILS																			
Rock Chute ID	Pond ID	Forebay ID	Rock Chute Location	Contributing Basins	Q100 Flow (cfs)	Upstream Inlet Apron Length (ft)	Drop (ft) (Inlet Apron to Outlet Apron)	Chute Length (ft)	Downstream Outlet Apron Length (ft)	Chute Width (ft)	D50 (in)	Rock Chute 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:


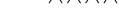







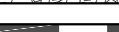

1. ROCK CHUTE DEPTH ACCOUNTS FOR 0.5' OF FREEBOARD
2. ROCK CHUTE WIDTH ACCOUNTS FOR 0.5' OF FREEBOARD



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### LEGEND

- |                                                                                       |                                                                         |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
|  | EXISTING PROPERTY BOUNDARY                                              |
|  | EXISTING MAJOR CONTOUR                                                  |
|  | EXISTING MINOR CONTOUR                                                  |
|  | PROPOSED MAJOR CONTOUR                                                  |
|  | PROPOSED MINOR CONTOUR                                                  |
|  | PROPOSED RIPRAP                                                         |
|  | PROPOSED STORM PIPE                                                     |
|  | STORM PIPE PER ONSITE CIVIL PLANS                                       |
|  | PROP. DBPS AMENDMENT<br>CONCRETE CHECK STRUCTURES                       |
|  | PRESERVED AREA FOR FUTURE<br>CONSTRUCTION OF SUB REGIONAL<br>POND (SRI) |
|  | PROP. COIR MAT SEE SHEET<br>C.155 FOR DETAIL                            |

NOTES:

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

## EAGLEVIEW

EL PASO COUNTY, COLORADO  
CONSTRUCTION DOCUMENTS

## OVERALL DRAINAGE IMPROVEMENTS



PROJECT NO.  
196288000

SHEET

C1.42

**Kimley»»Horn**

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

DESIGNED BY: DCM  
DRAWN BY: DCM  
CHECKED BY: BAH  
DATE: 9/25/2024

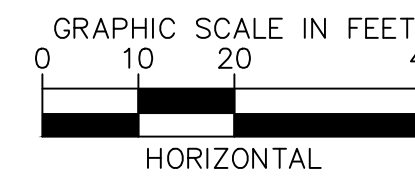


[illegible]

MATCHLINE STA. 30+50 SEE SHEET C1.44




31+00



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.

**Kimley»Horn**

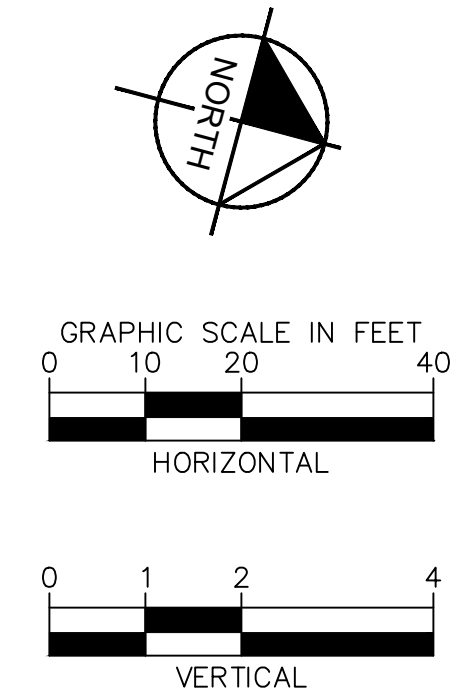
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CHECKED BY: KRK  
DATE: 9/25/2024



SHEET

C1.43



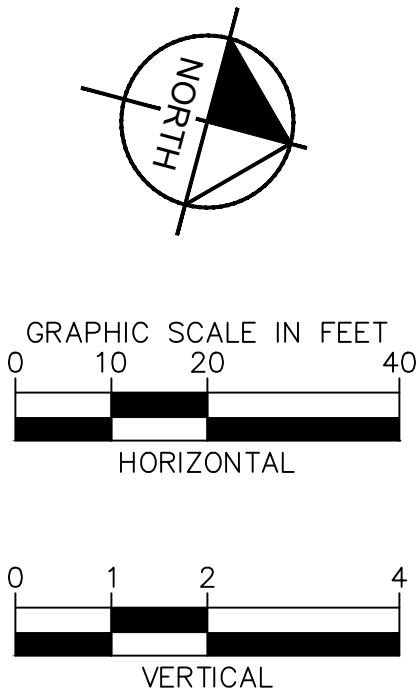
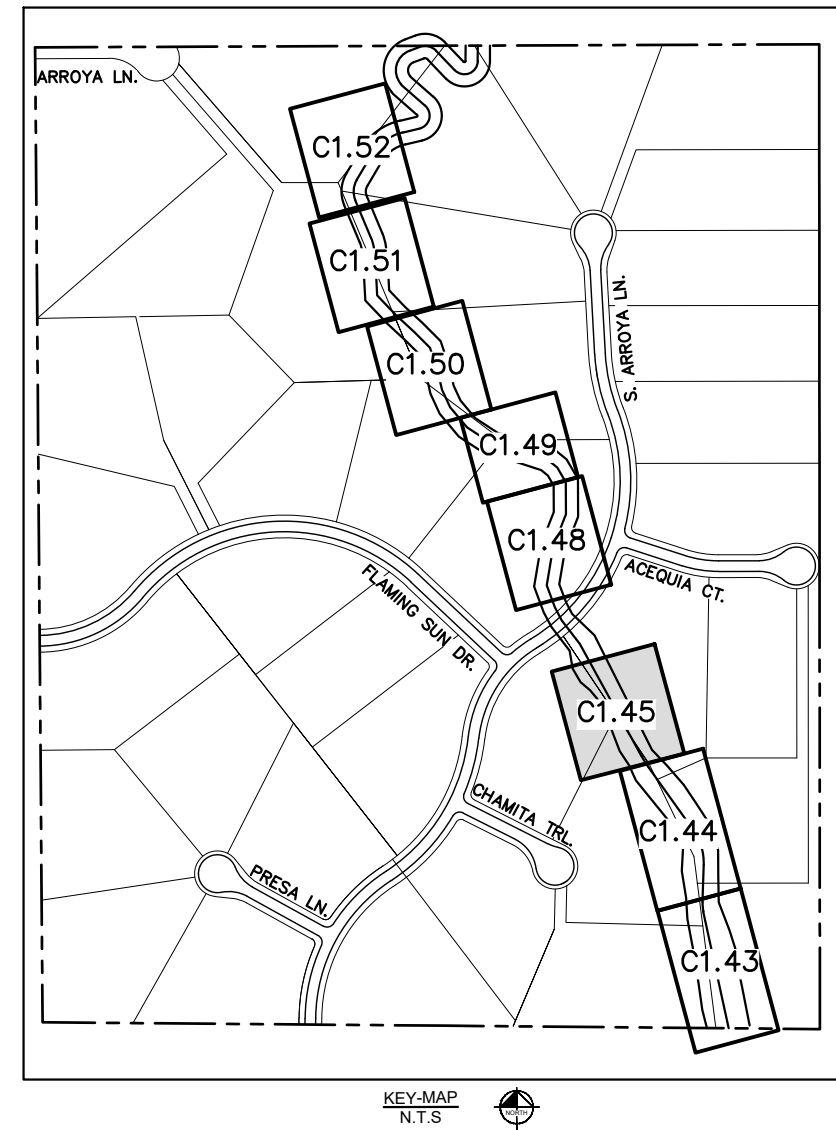
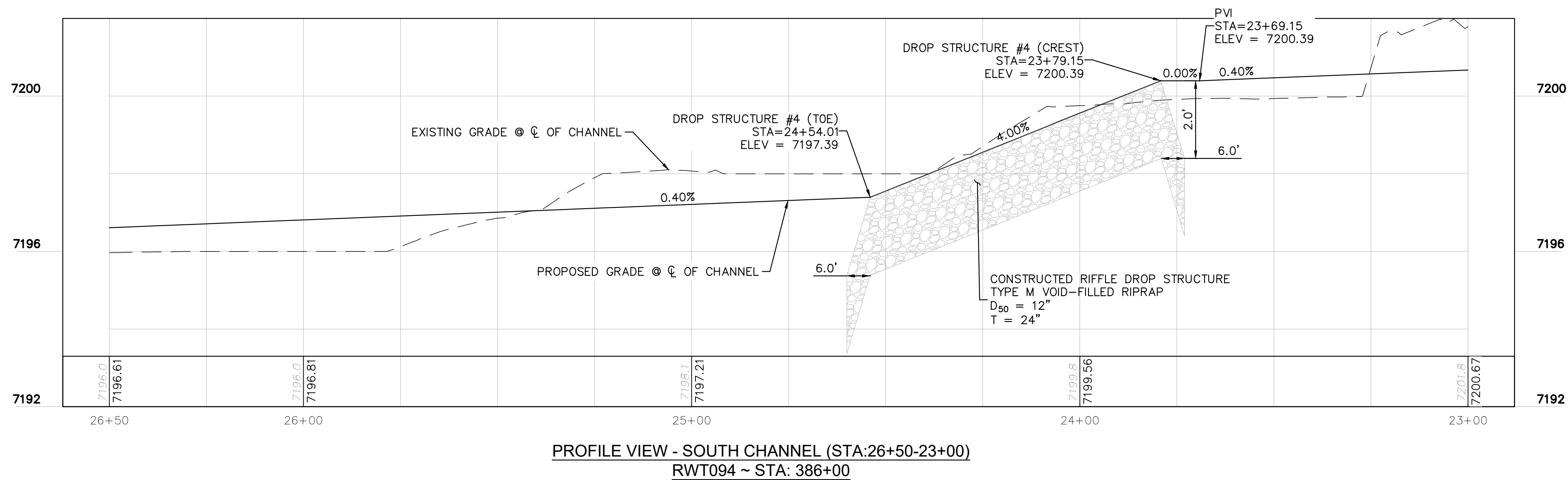
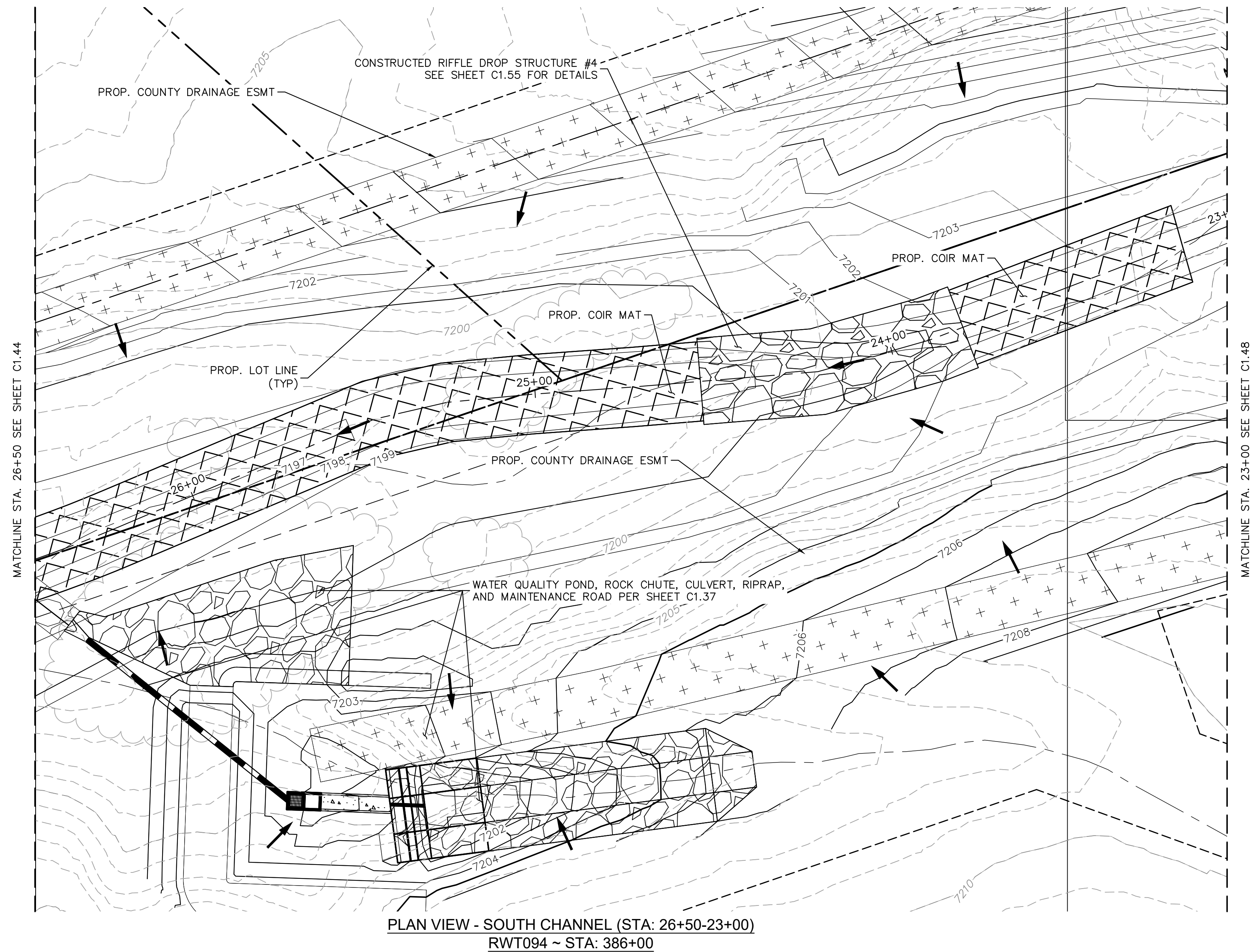
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- NOTES:

  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.

	<p>EAGLEVIEW EL PASO COUNTY, COLORADO CONSTRUCTION DOCUMENTS</p>	<p><b>Kimley»Horn</b> 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: KRK DATE: 9/25/2024</p>	
<p>PROJECT NO. 196106001</p>		<p><b>C1.44</b></p>
<p>SHEET</p>		

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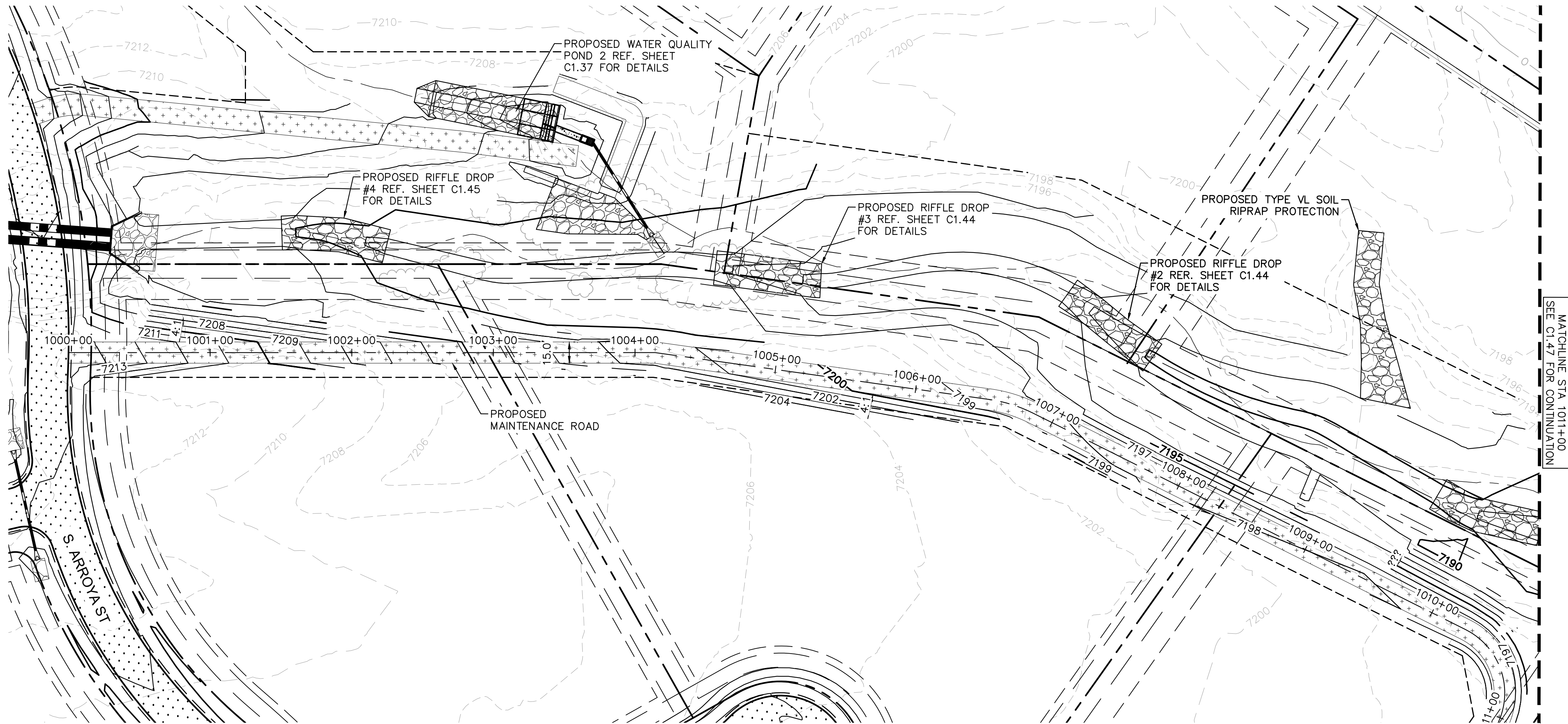
- NOTES:
- CHANNEL INVERT SHOWN IN PROFILE VIEW IS THE ELEVATION OF THE LOW FLOW CHANNEL.
  - SEE SECTION (H) SHEET C1.2 FOR TYPICAL SECTION OF CHANNEL RWT094.

EAGLEVIEW EL PASO COUNTY, COLORADO CONSTRUCTION DOCUMENTS SOUTH CHANNEL PLAN & PROFILE		DESIGNED BY: MJK DRAWN BY: MJK CHECKED BY: KRK DATE: 9/25/2024	
		PROJECT NO. 196106001	
SHEET <b>C1.45</b>		NO.	
		REVISION	
		BY	
		DATE	
		APPR.	

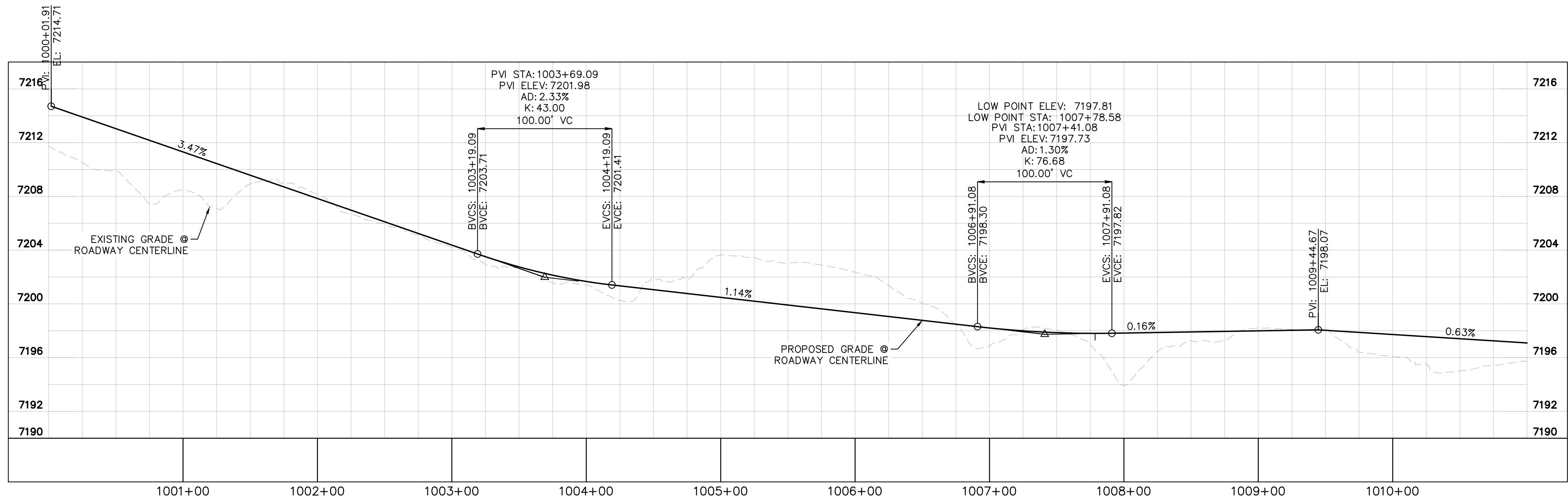
**Kimley»Horn**  
2024 KIMLEY-HORN AND ASSOCIATES, INC.  
2 North Nevada Avenue Suite 900  
Colorado Springs, Colorado 80903 (719) 453-0180



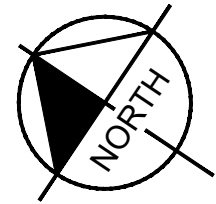
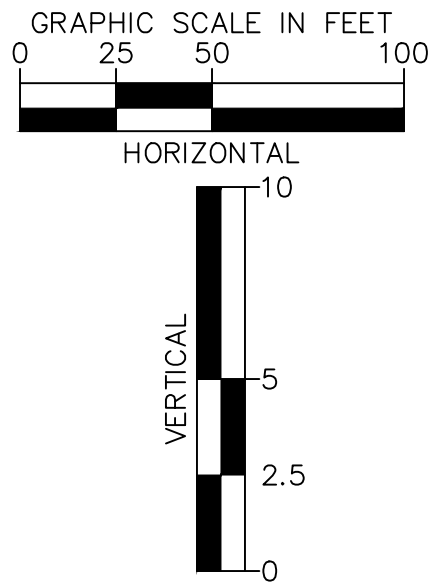
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SOUTH MAINTENANCE ROAD PLAN VIEW

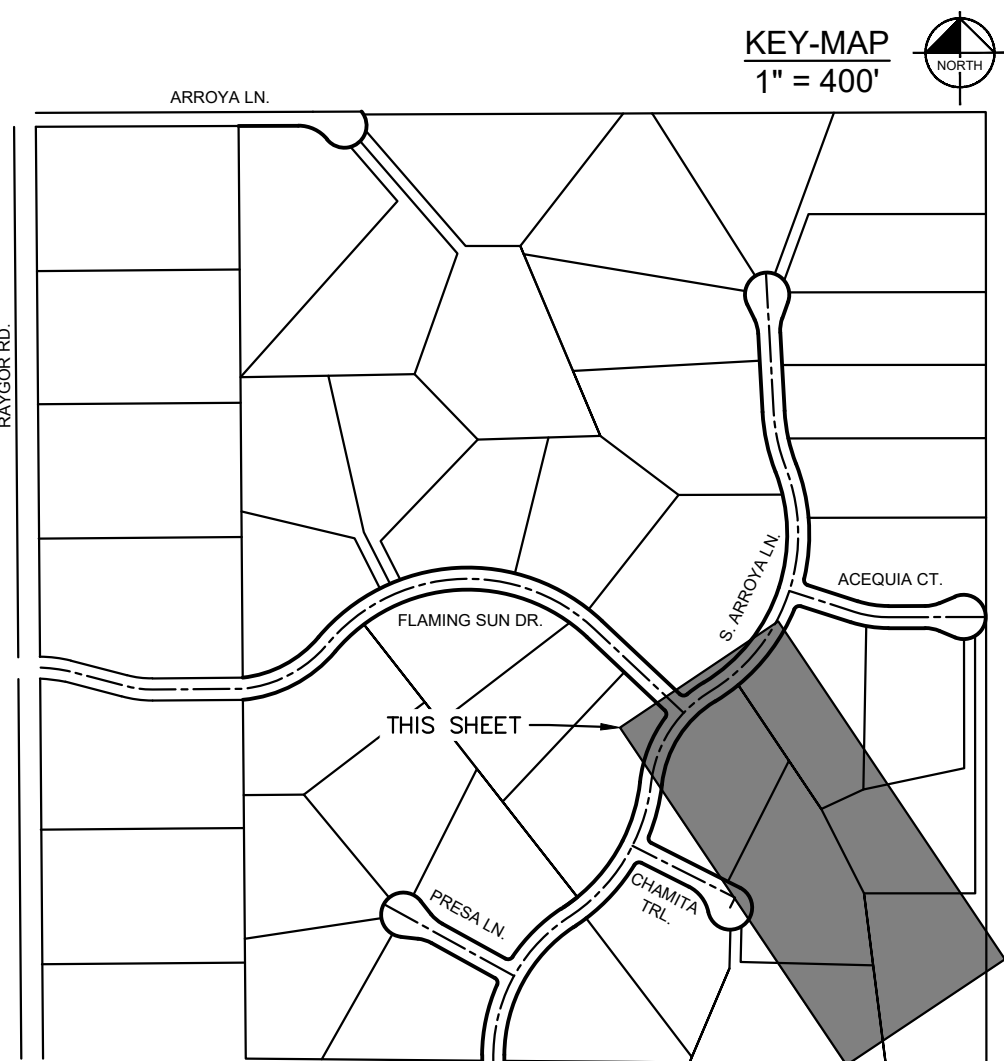


SOUTH MAINTENANCE ROAD PROFILE  
STA: 1000+00 TO 1011+00



LEGEND

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

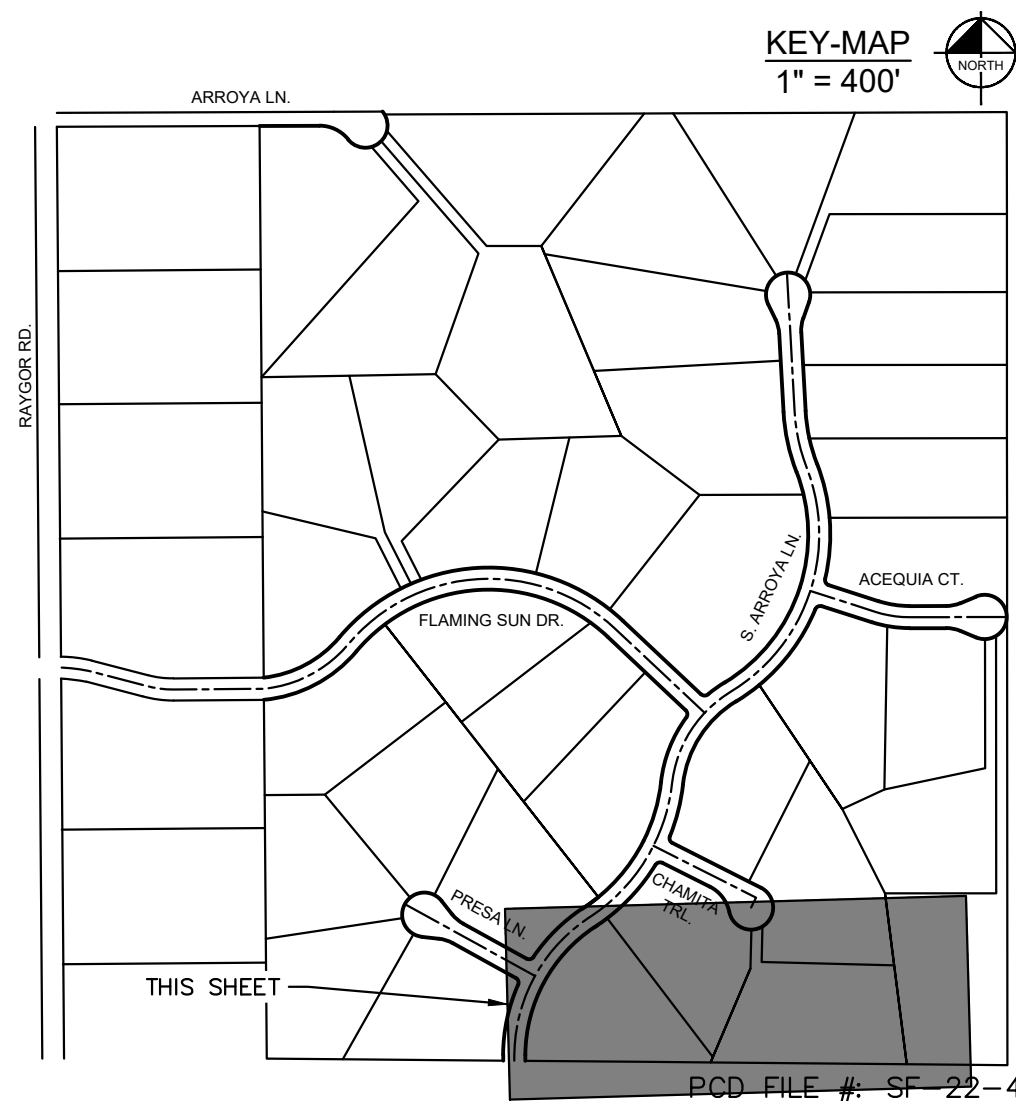
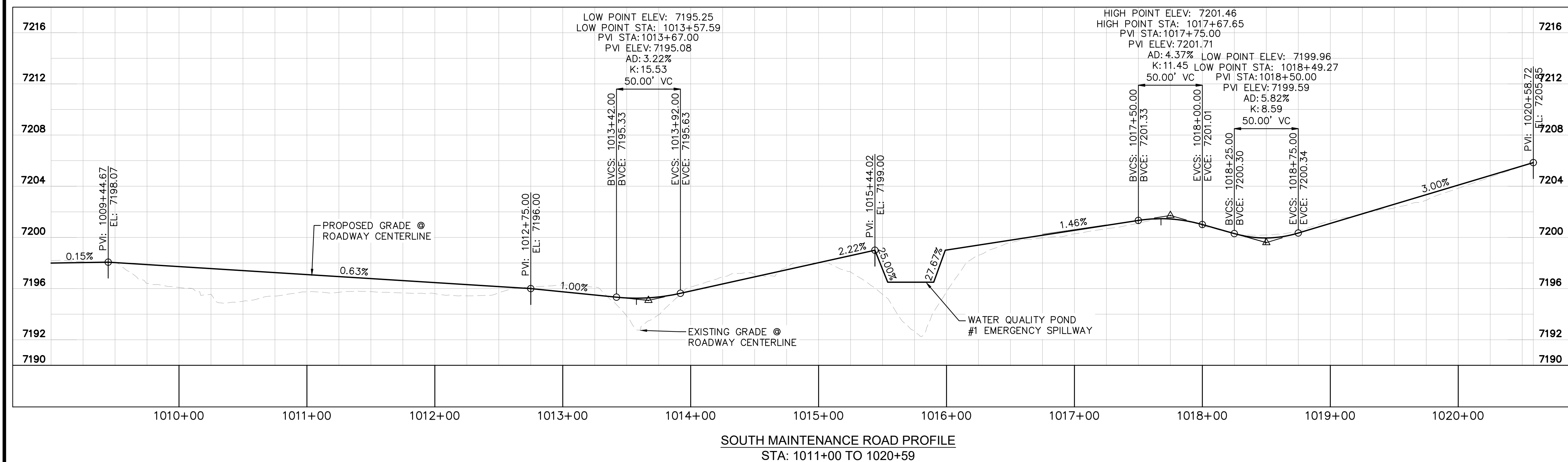
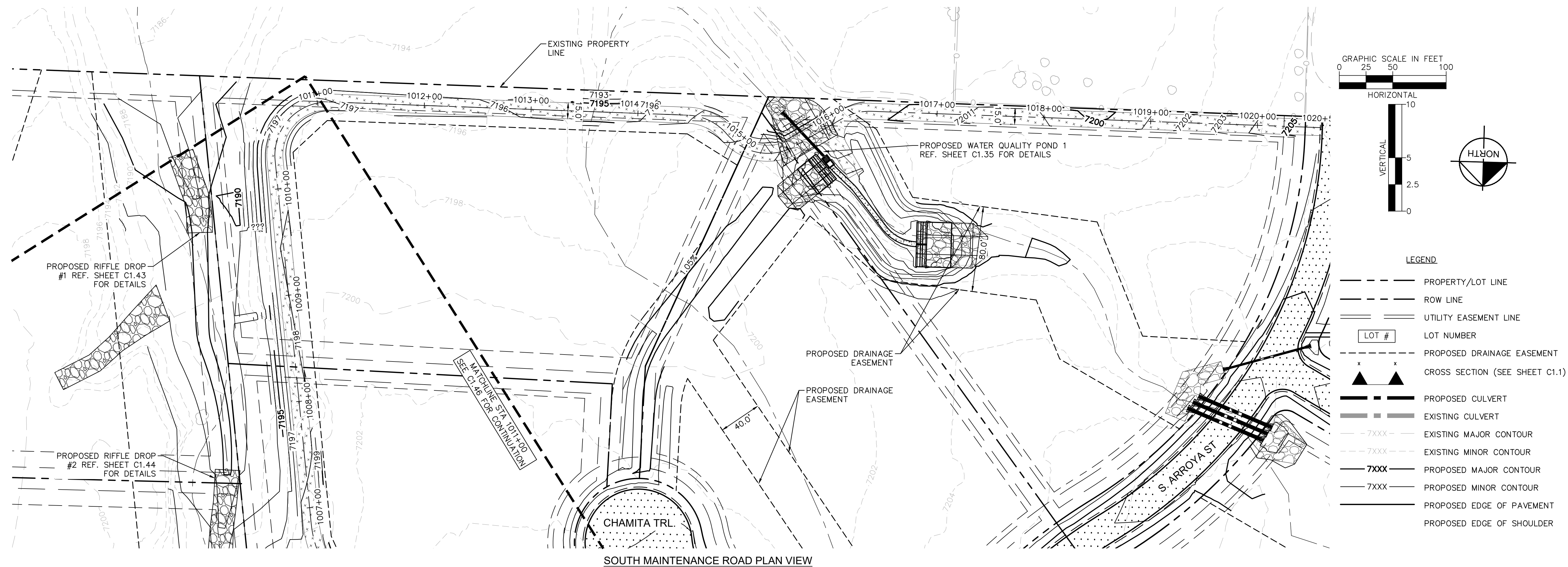


PCD FILE #: SF-22-42

EAGLEVIEW EL PASO COUNTY, COLORADO CONSTRUCTION DOCUMENTS S. MAINTENANCE ROAD PLAN & PROFILE		DESIGNED BY: MJK DRAWN BY: MJK CHECKED BY: KKK DATE: 9/17/2024	
		PROJECT NO. 196106001	
SHEET		C1.46	
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

[illegible]

**Kimley»»Horn**  
2024. KIMLEY-HORN AND ASSOCIATES, INC.  
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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  
S. MAINTENANCE ROAD PLAN & PROFILE



PROJECT NO. 196106001
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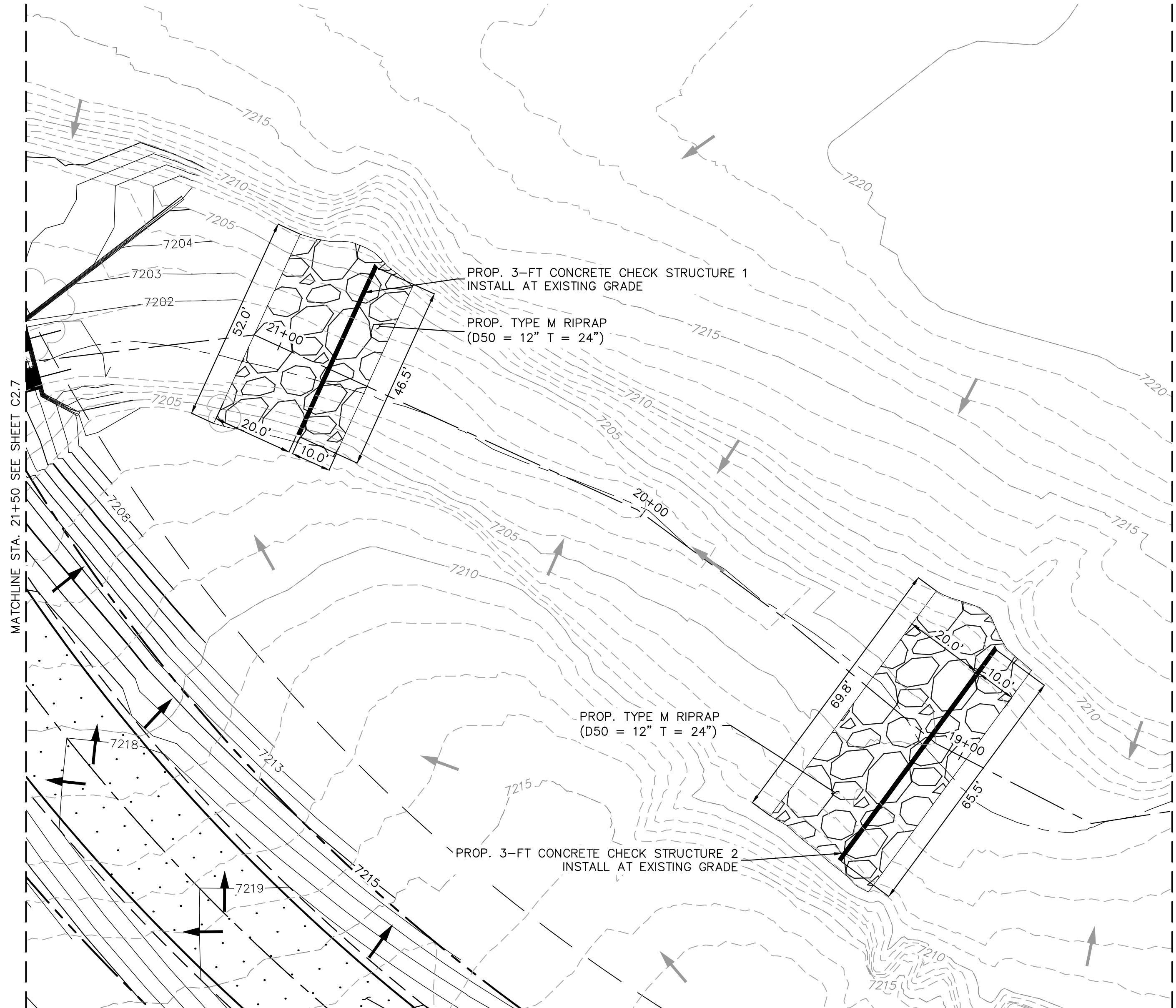
SHEET

C1.47

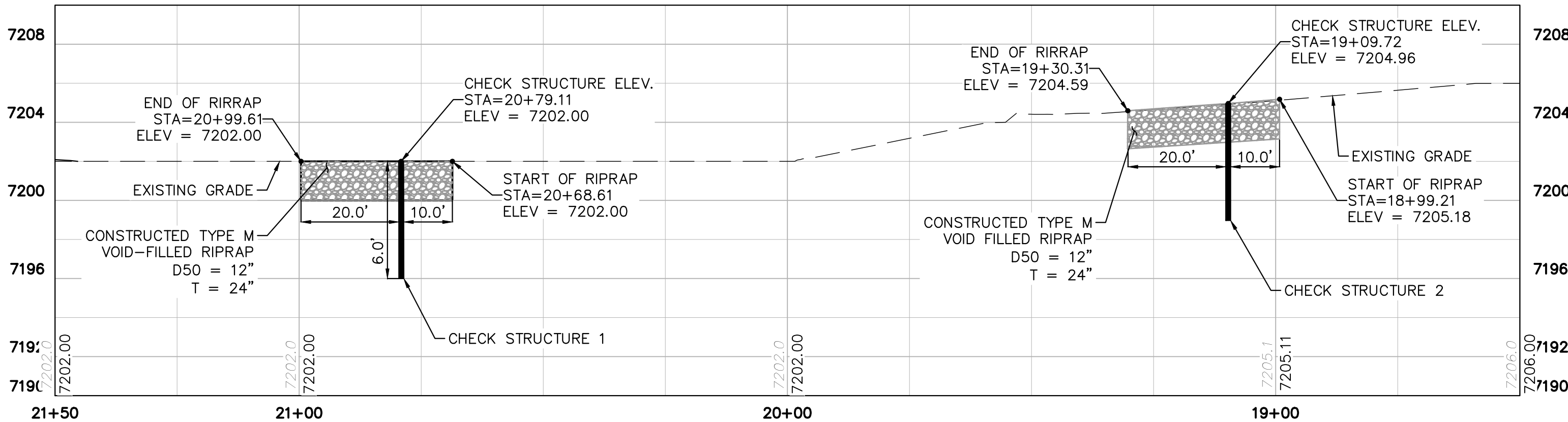
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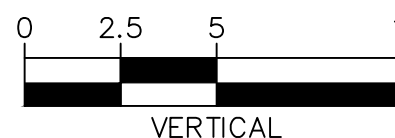
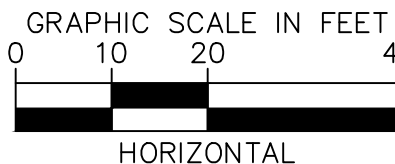
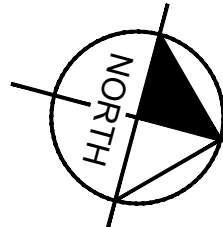
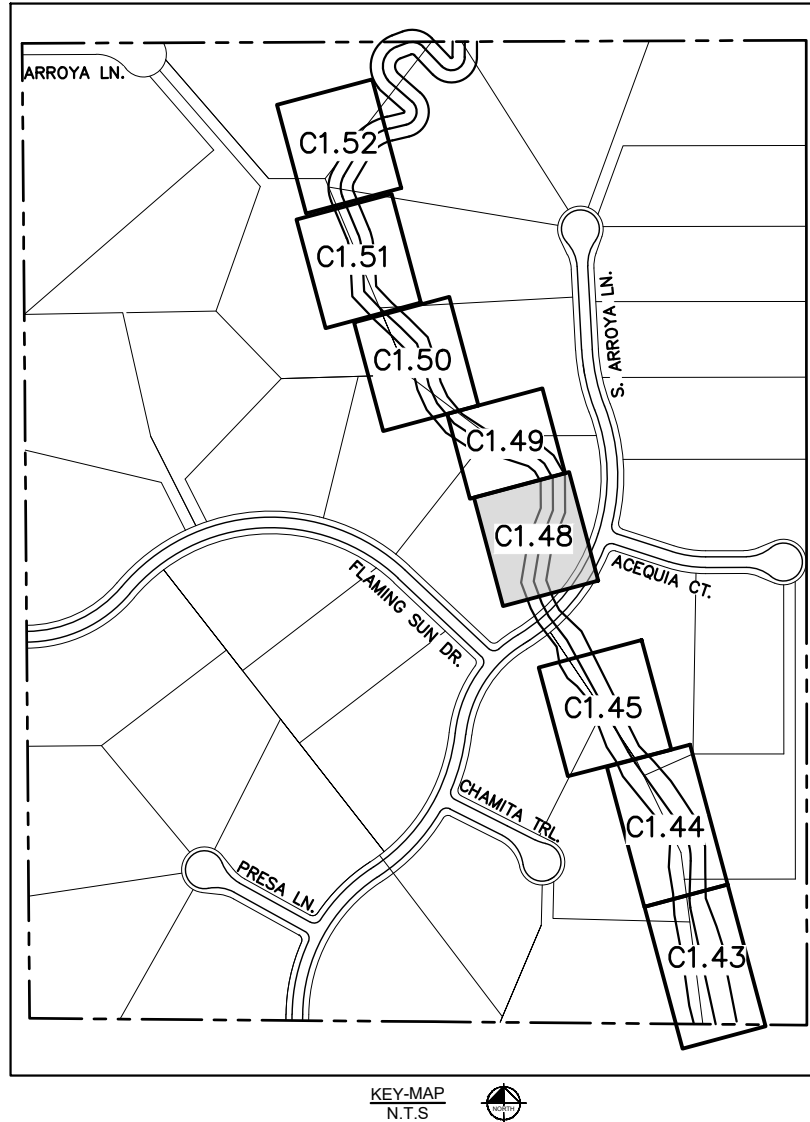
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PLAN VIEW - CONC. CHECK STRUCTURE 1 & 2 (STA: 21+50-18+50)  
RWT094 ~ STA: 38+900



PROFILE VIEW - CONC. CHECK STRUCTURE 1 & 2 (STA: 21+50-18+50)  
RWT094 ~ STA: 38+900



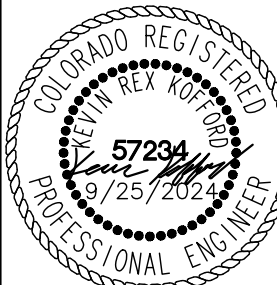
NOTES

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

## EAGLEVIEW

EL PASO COUNTY, COLORADO

CONSTRUCTION DOCUMENTS



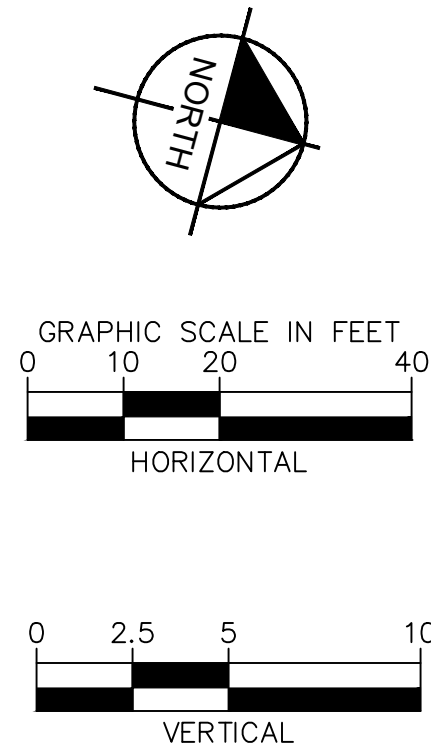
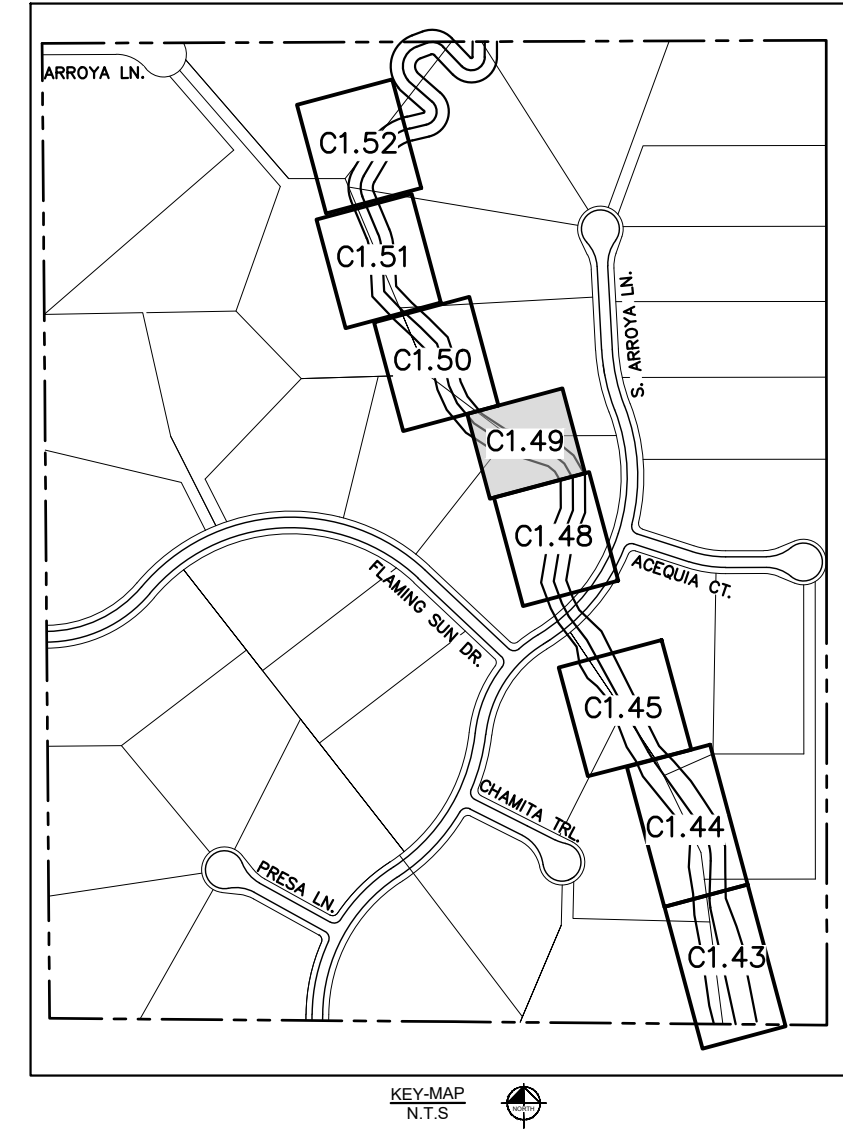
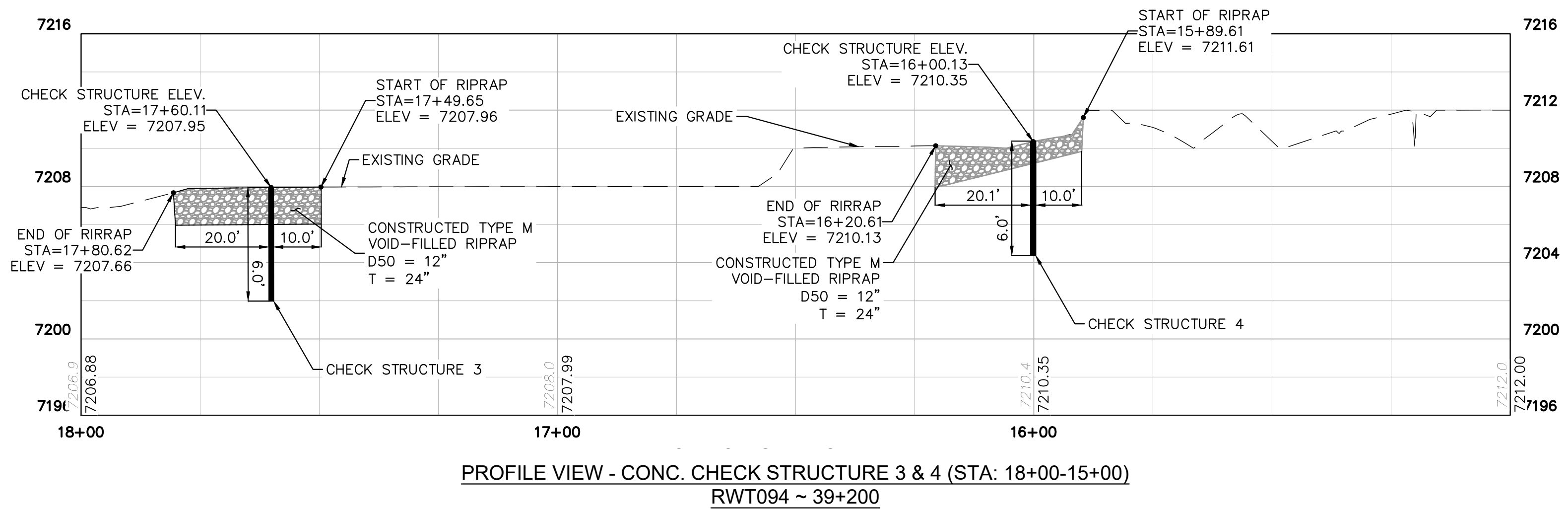
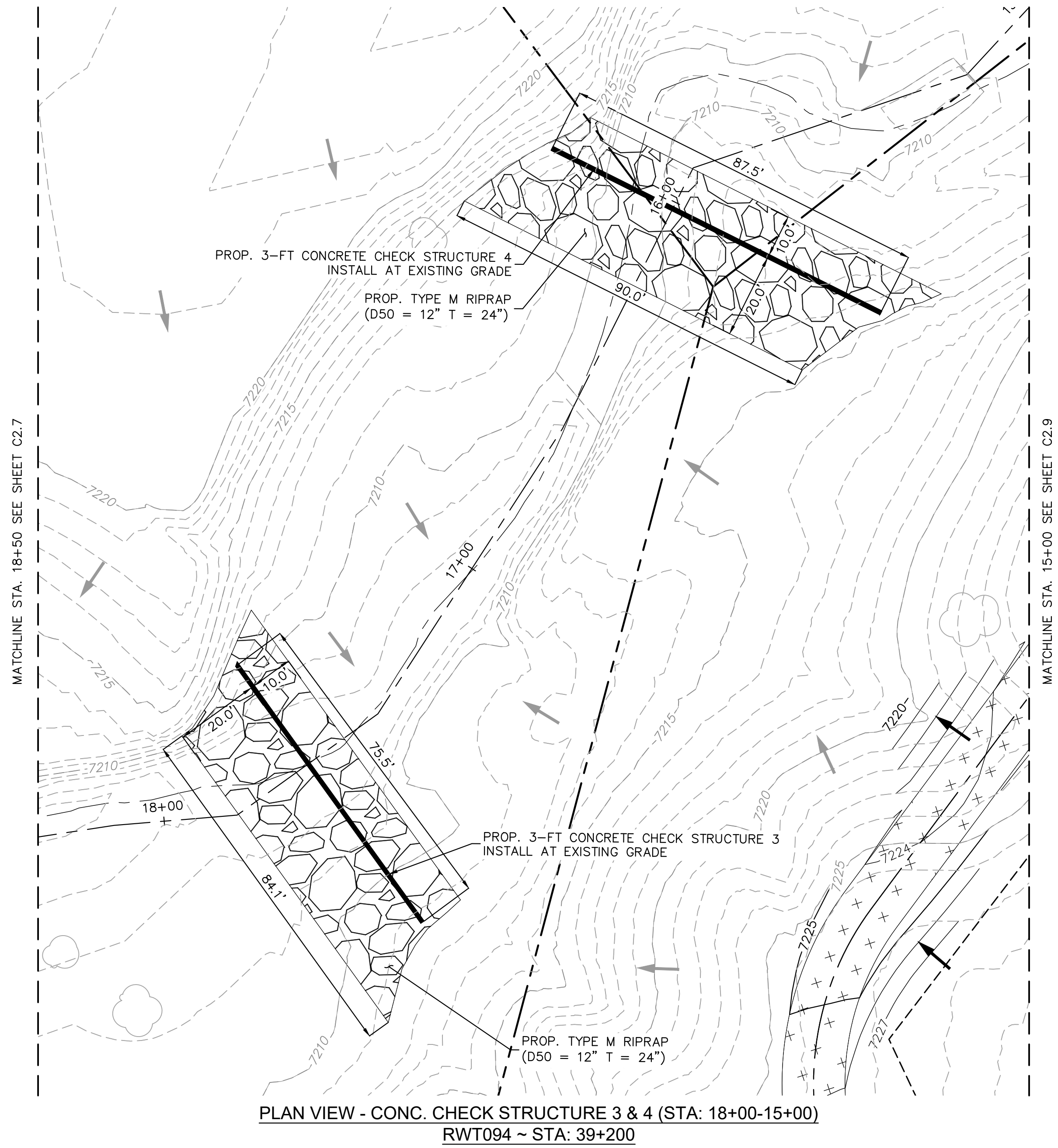
PROJECT NO.  
196106001

SHEET

C1.48

[illegible]

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NOTES:

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

[illegible]

**Kimley»»Horn**  
2024 KIMLEY-HORN AND ASSOCIATES, INC.  
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Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK  
DRAWN BY: MJK  
CHECKED BY: KRK  
DATE: 9/25/2024

EAGLEVIEW  
EL PASO COUNTY, COLORADO  
CONSTRUCTION DOCUMENTS  
**CHECK STRUCTURE PLAN & PROFILE**

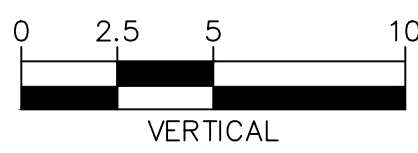
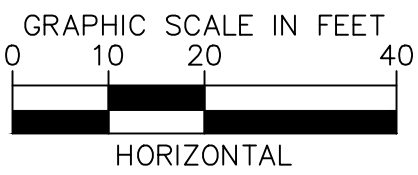
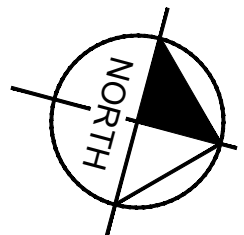
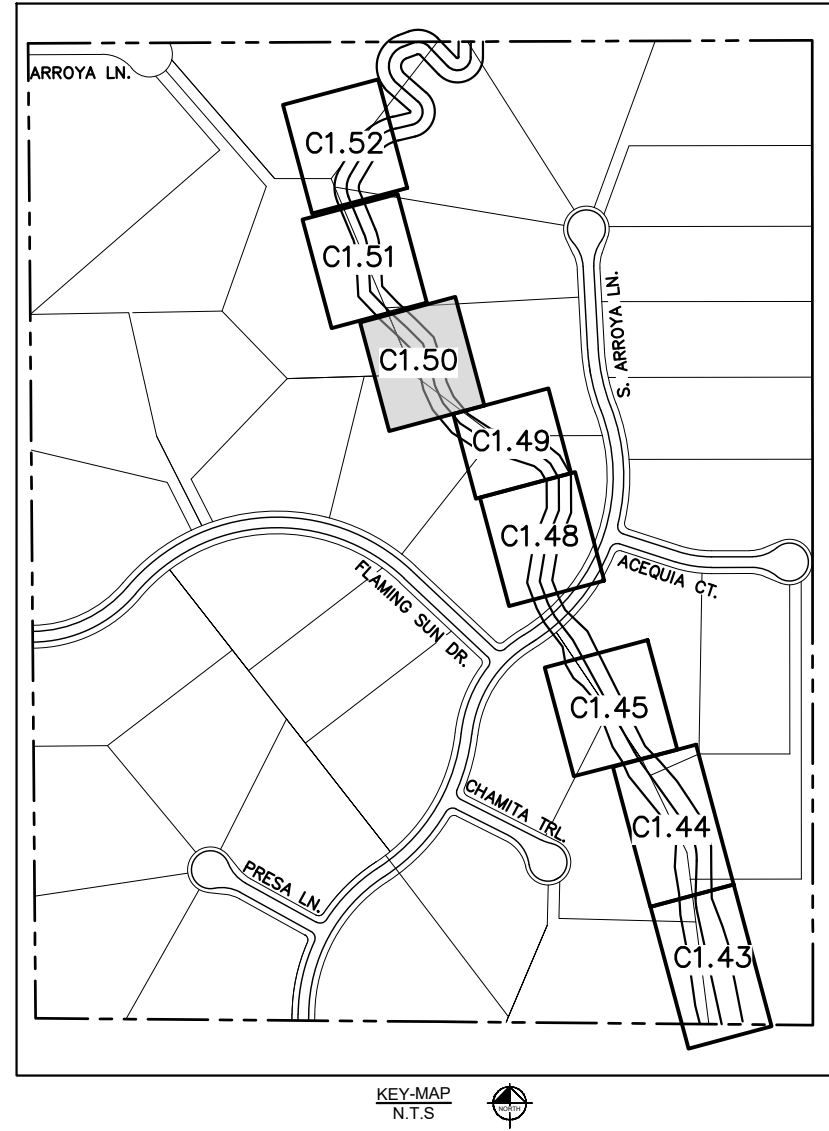
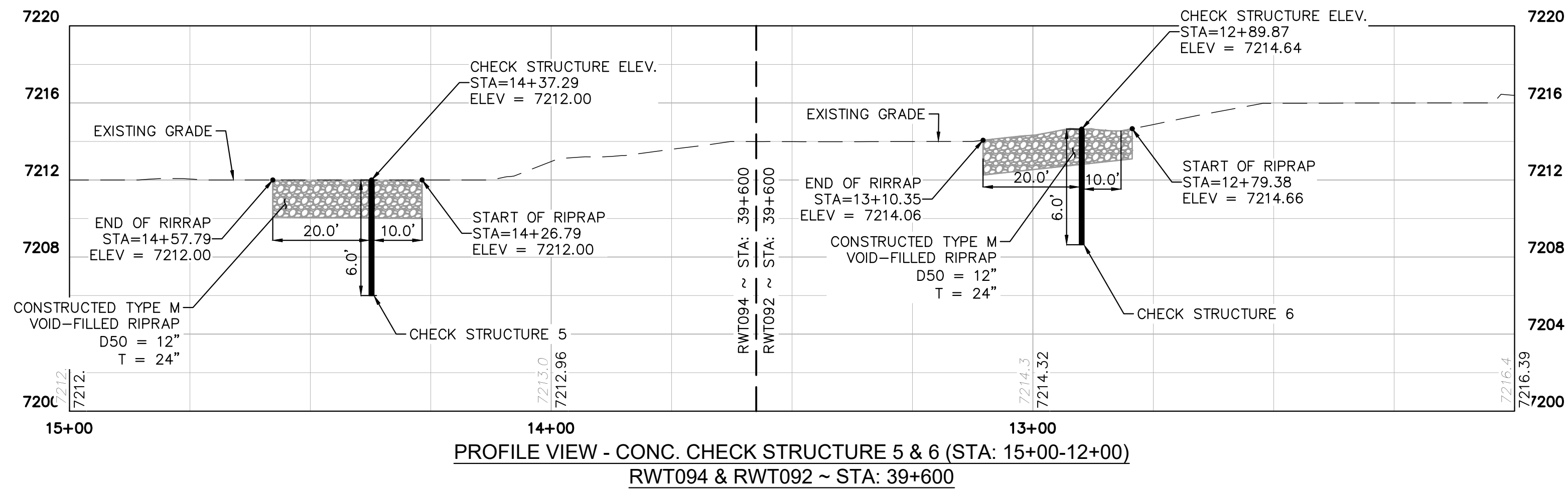


PROJECT NO.  
196106001

SHEET

C1.49





NOTES:

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EAGLEVIEW  
EL PASO COUNTY, COLORADO  
CONSTRUCTION DOCUMENTS  
CHECK STRUCTURE PLAN & PROFILE

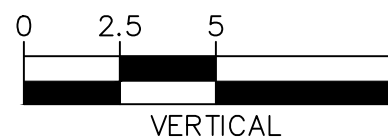
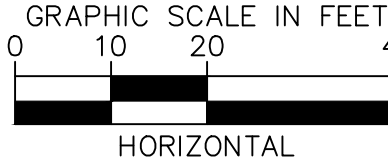
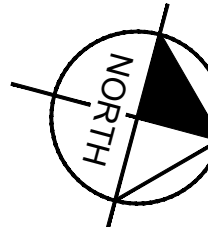
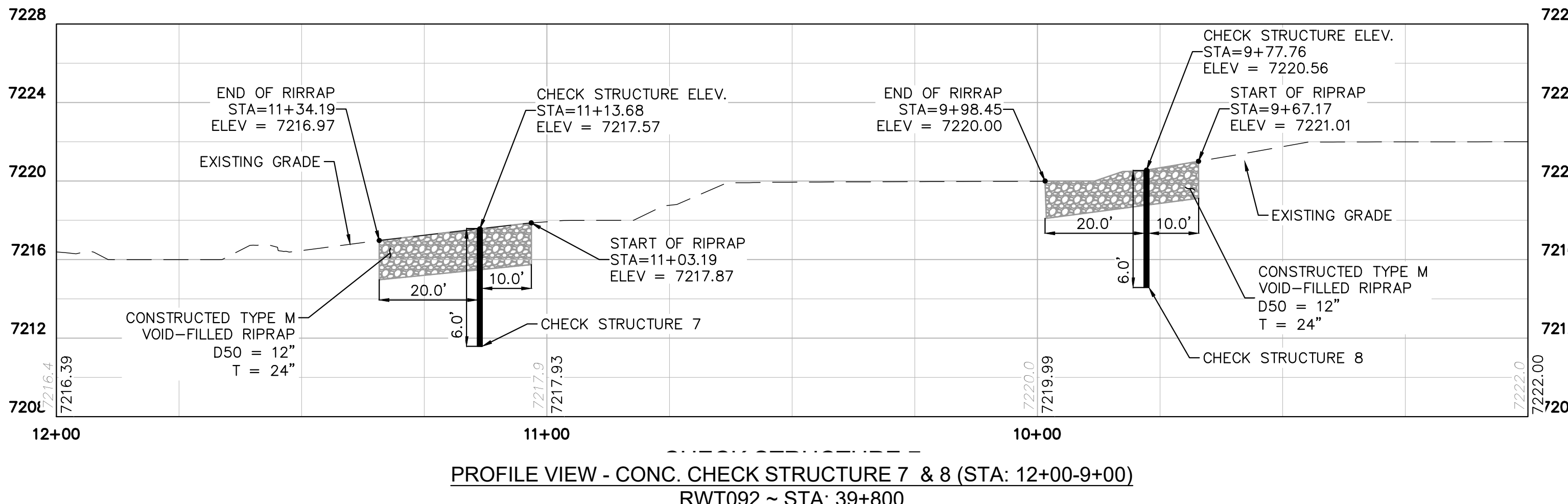
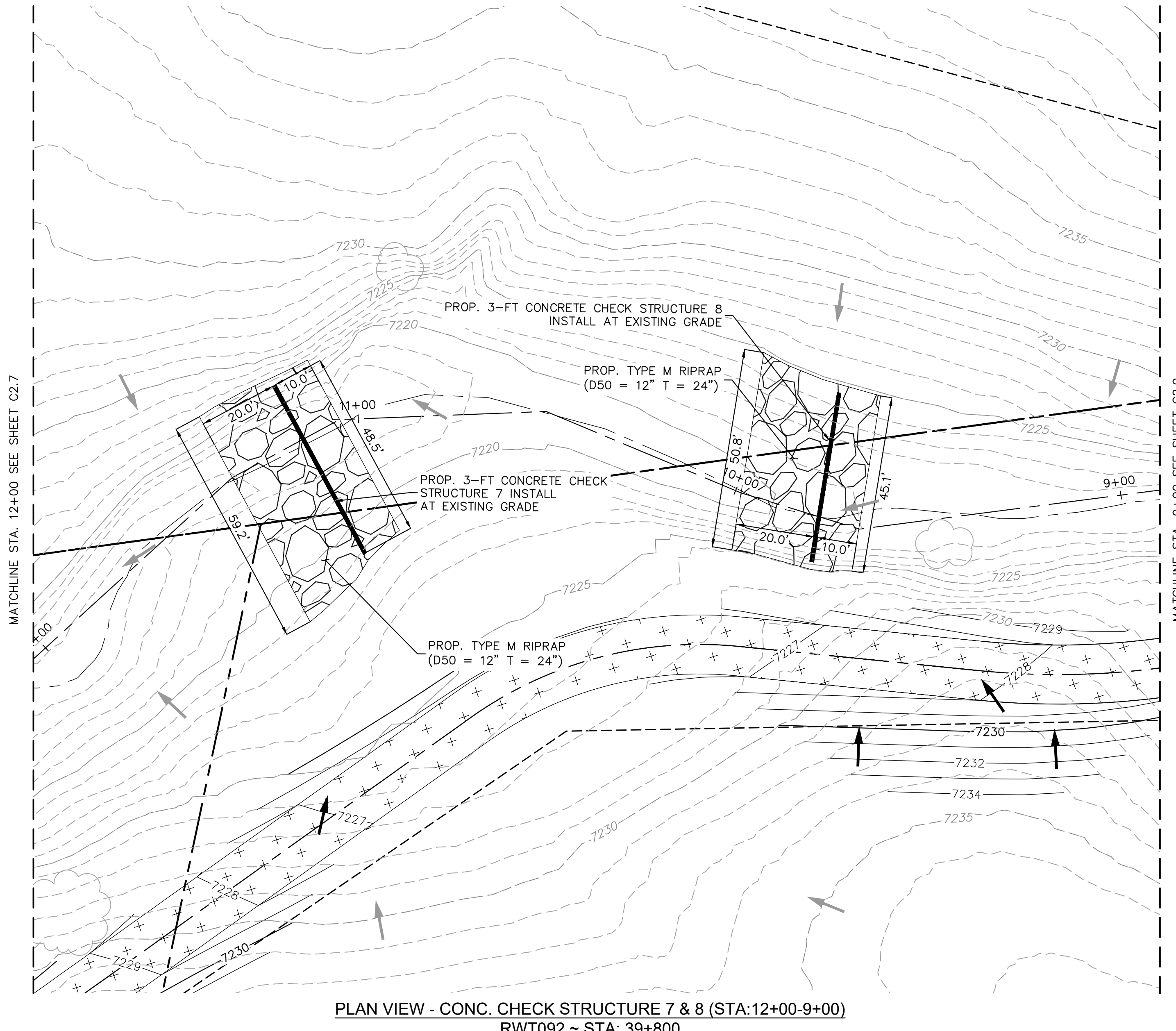


PROJECT NO.  
196106001

SHEET

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NOTES:

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

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EL PASO COUNTY, COLORADO  
CONSTRUCTION DOCUMENTS



PROJECT N  
196106001

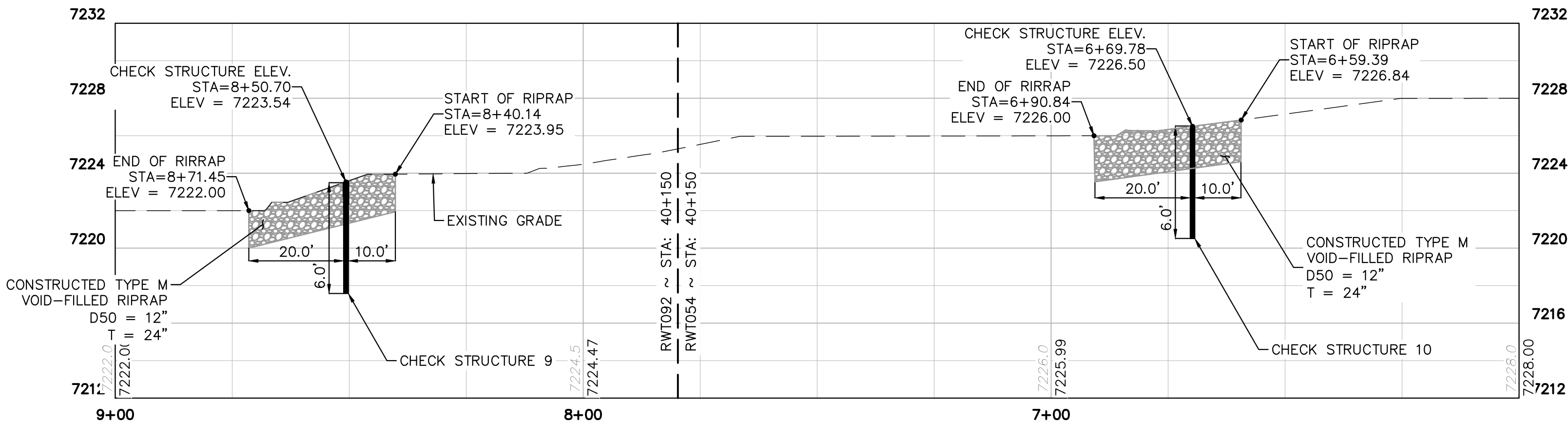
SHEET  
C1.5



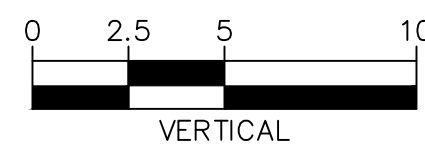
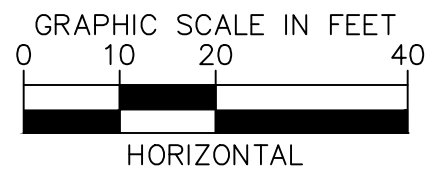
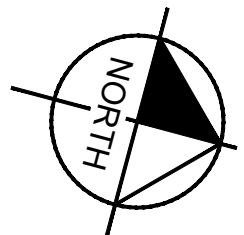
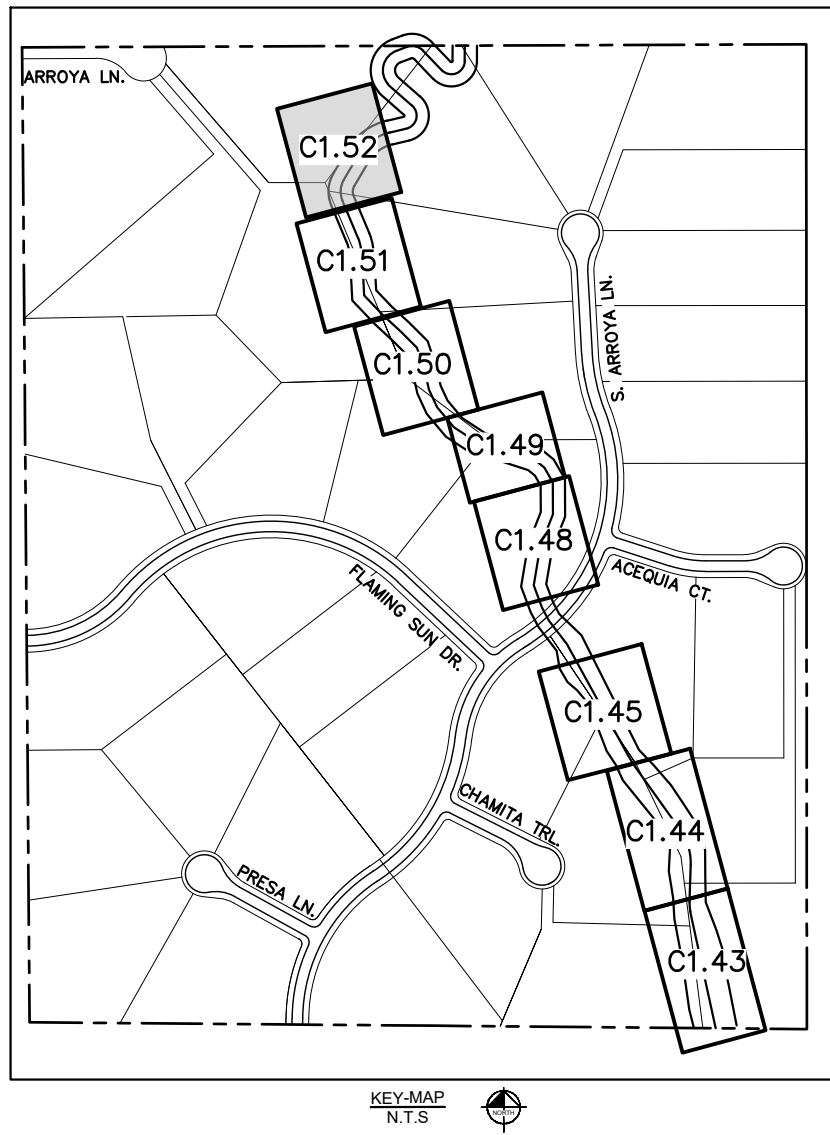
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PLAN VIEW - CONC. CHECK STRUCTURE 9 & 10 (STA: 9+00-6+00)  
RWT092 & RWT054 ~ STA: 40+150



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



NOTES

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

# Kimley»Horn

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DATE: 9/25/2024

EAGLEVIEW  
EL PASO COUNTY, COLORADO  
CONSTRUCTION DOCUMENTS  
CHECK STRUCTURE PLAN & PROFILE



PROJECT NO.  
196106001

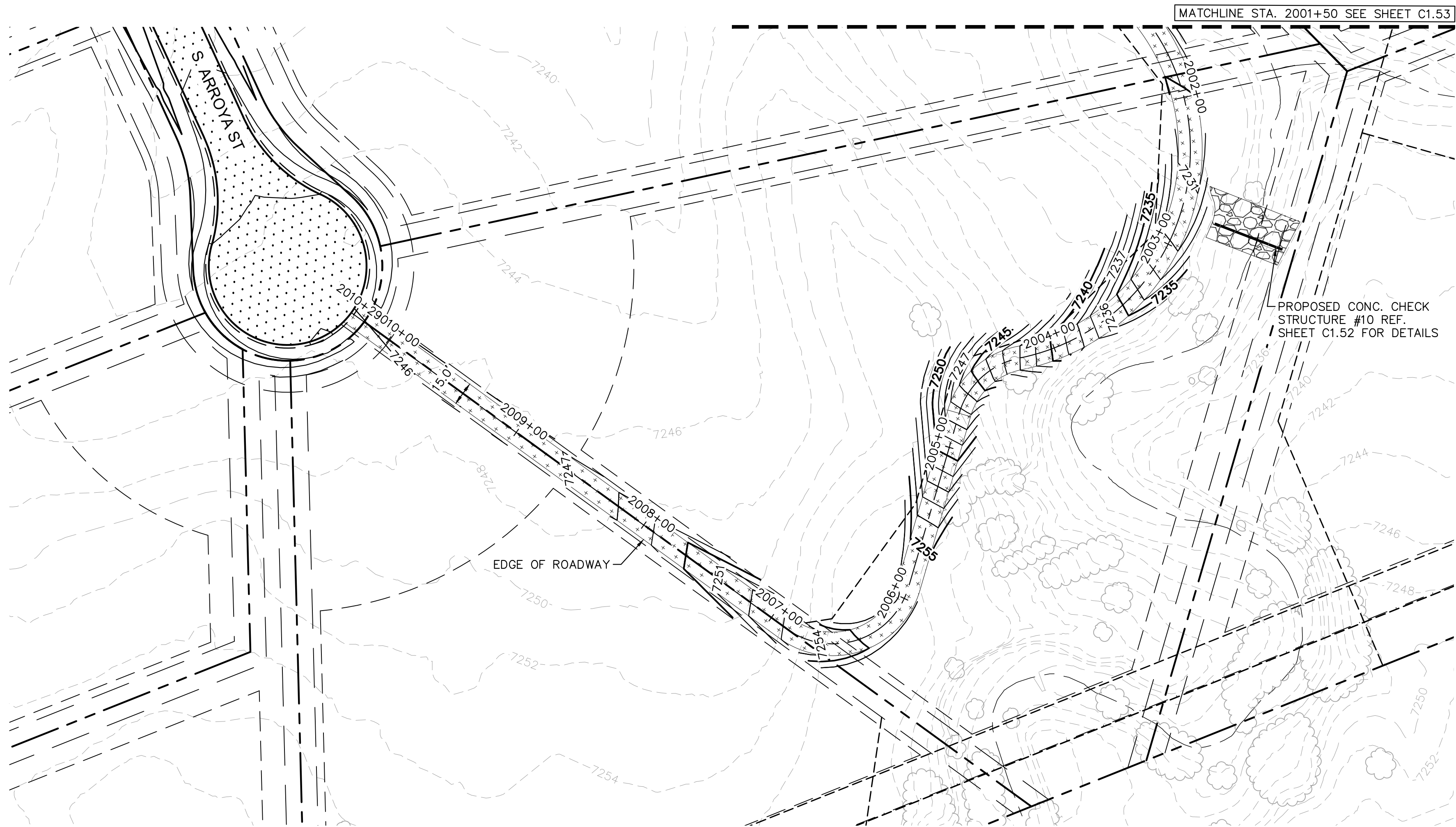
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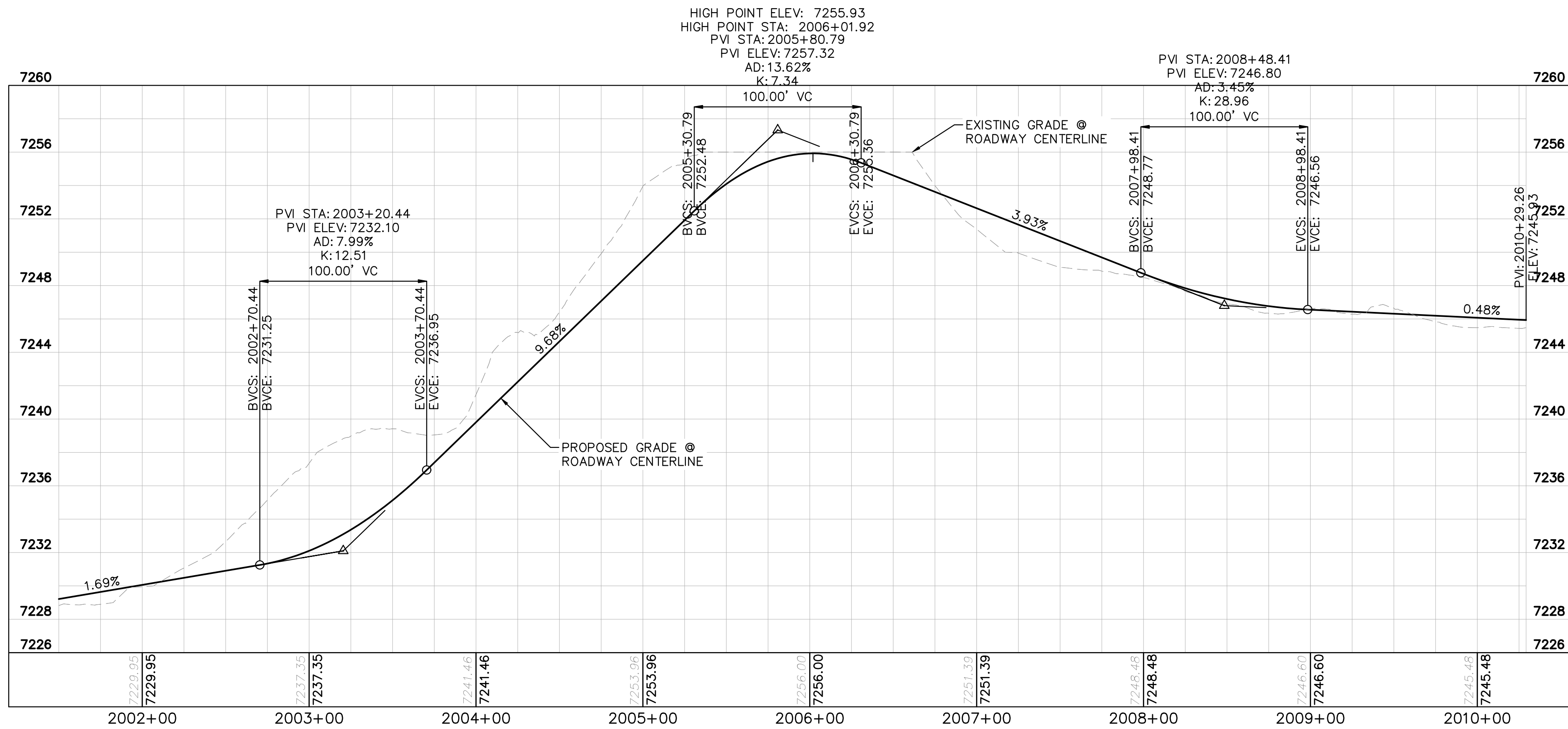




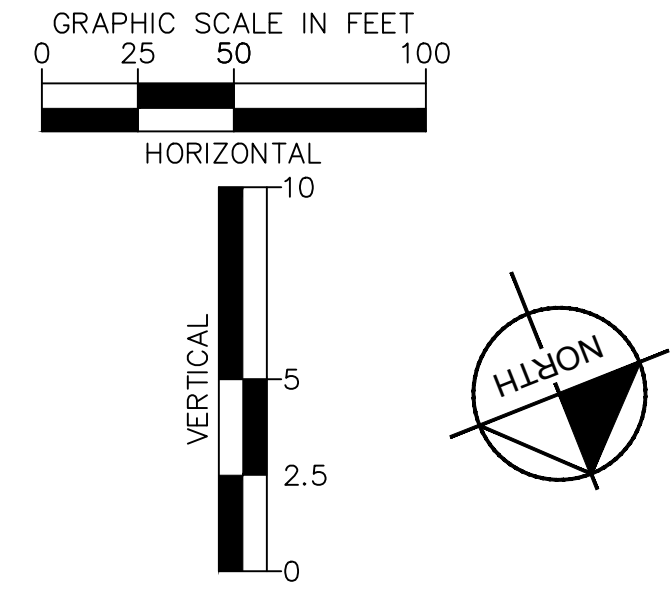
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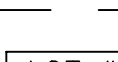
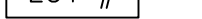
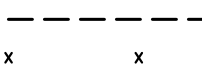










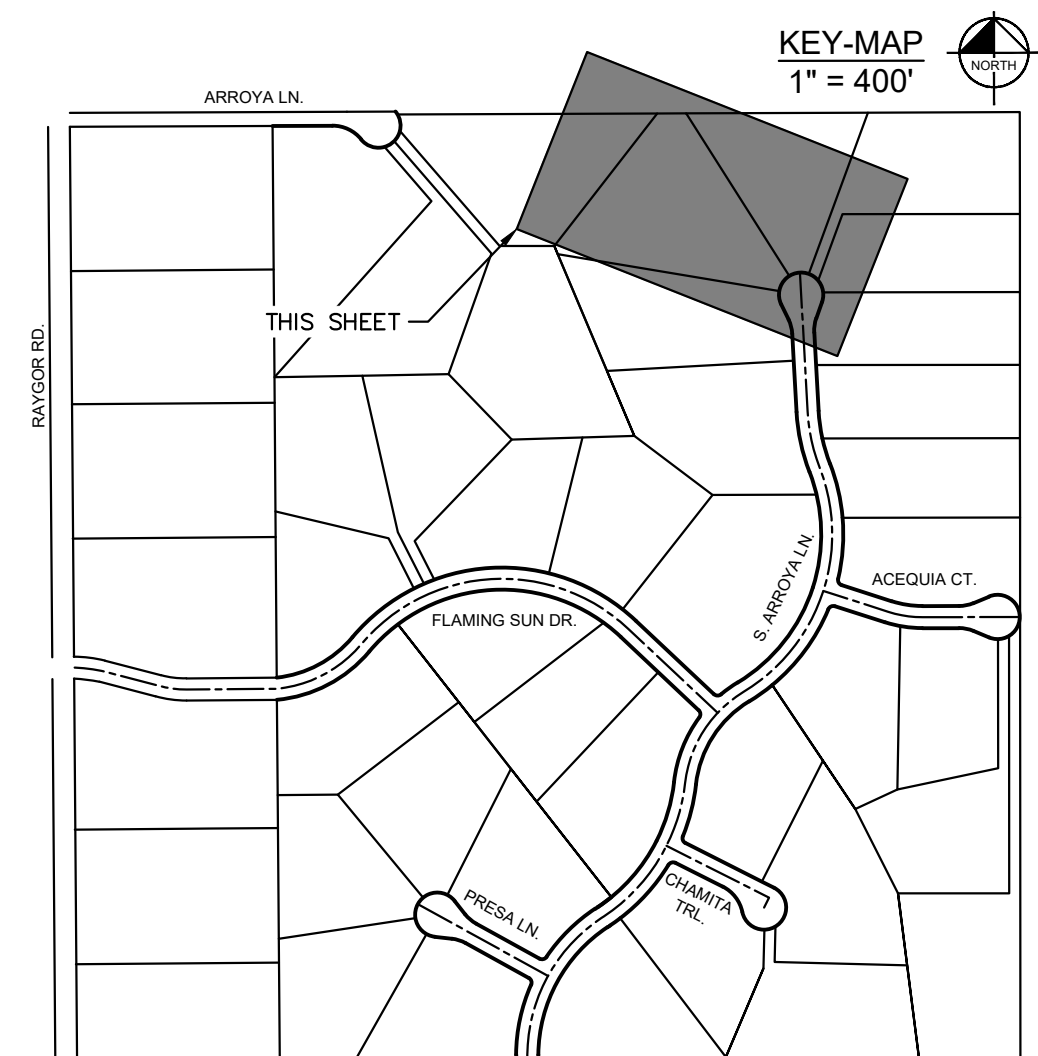
NORTH MAINTENANCE ROAD PLAN VIEW



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



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



PCD FILE #: SF-22-42

[illegible]

**Kimley»»Horn**

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DATE: 9/17/2024

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



PROJECT NO.  
196106001

SHEET

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/m²)
Wide width tensile strength <b>Wet</b> 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 <b>Dry</b> Machine direction Cross direction	ASTM D 4595	1740 lbs./ft (25.4 kN/m) 1176 lbs./ft (17.2 kN/m)
Elongation at failure <b>Wet</b> 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)

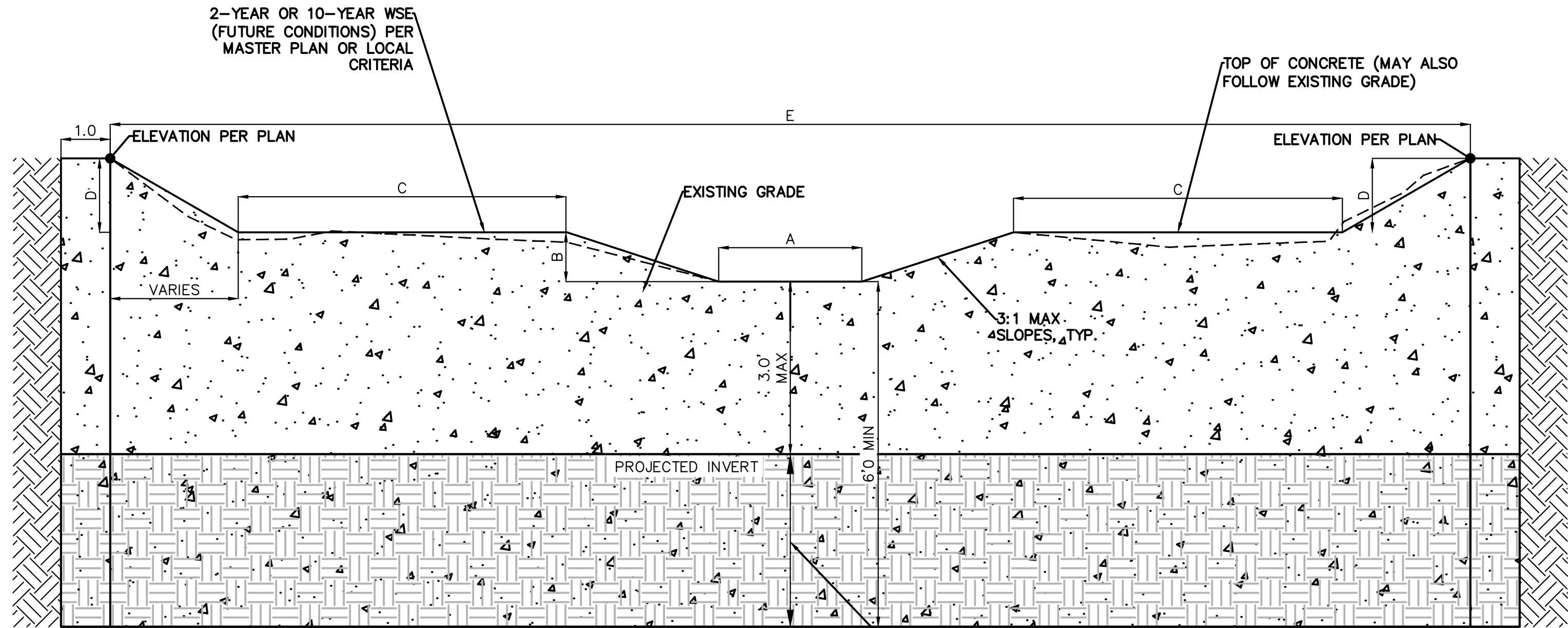


155 Andrew Drive, Stockbridge, GA 30281

COIR MAT (OR EQUIVELANT)  
INSTALL PER PLANS

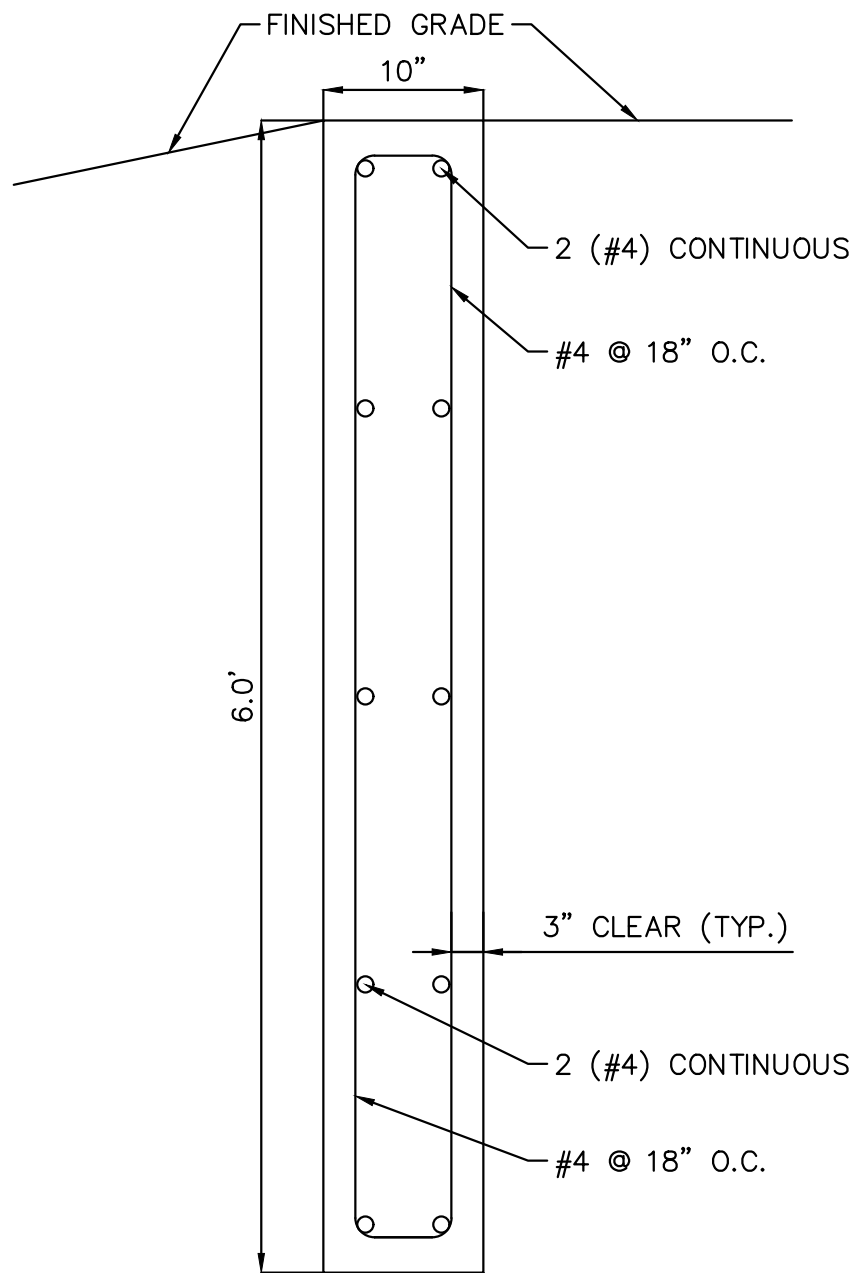
1 800 760 3215  
Tel: 770 506 8211 Fax: 770 506 0391  
E-mail: rolanka@rolanka.com  
Web: www.rolanka.com

DOT DBE Certified



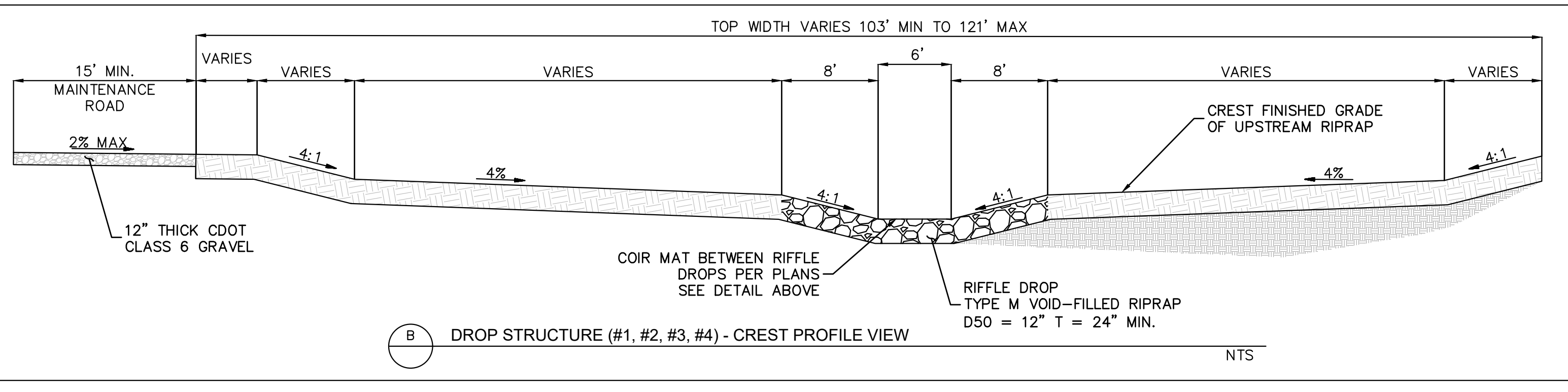
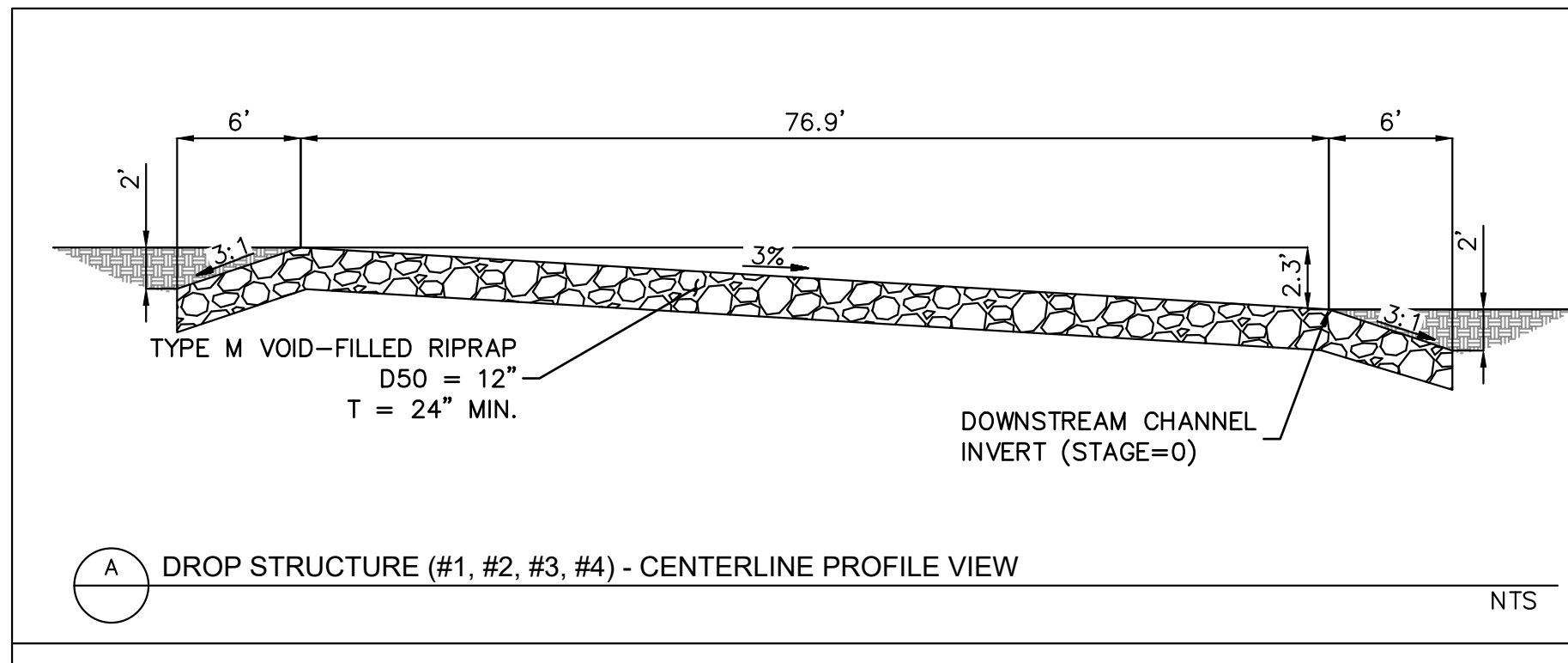
#### NOTES:

- 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 TABLE					
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



RIFFLE DROP STRUCTURE DETAIL  
N.T.S.

**Kimley»Horn**

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DESIGNED BY: MJK  
DRAWN BY: MJK  
CHECKED BY: KKK  
DATE: 9/25/2024

EAGLEVIEW  
EL PASO COUNTY, COLORADO  
CONSTRUCTION DOCUMENTS  
CHANNEL STRUCTURES DETAIL



PROJECT NO.  
196106001

SHEET  
**C1.55**



