

K:\COS_Civil\196106001_Winsome Filing No. 3\CADD\PlanSheets\Culvert CDS\196106001_CV.dwg Kofford, Kevin 1/21/2022 5:04 PM

WINSOME FILING NO. 3 CULVERT CONSTRUCTION DOCUMENTS

A PORTION OF SECTIONS 13 AND 24, TOWNSHIP 11 SOUTH, RANGE 65 SOUTH, AND
A PORTION OF THE WEST HALF SECTON 19, TOWNSHIP 11 SOUTH, RANGE 64 WEST OF THE 6TH P.M
COUNTY OF EL PASO, STATE OF COLORADO

CONTACTS:

DEVELOPER:
WINSOME, 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: ABARLOW@NESCOLORADO.COM
CONTACT: ANDREA BARLOW

ENGINEER:
KIMLEY-HORN AND ASSOCIATES, INC.
2 NORTH NEVADA, SUITE 300
COLORADO SPRINGS, CO 80903
(719) 453-0180
EMAIL:
KEVIN.KOFFORD@KIMLEY-HORN.COM
CONTACT: KEVIN KOFFORD

SURVEY:
EDWARD JAMES SURVEYING, INC.
926 ELKTON DRIVE
COLORADO SPRINGS, CO 80907
TEL: (719) 576-1216
CONTACT: JONATHAN TESSIN

EL PASO COUNTY PLANNING
DEPARTMENT
2680 INTERNATIONAL CIRCLE, SUITE
110
COLORADO SPRINGS, CO 80910

PLANNING REVIEWER:
NINA RUIZ
TEL: (719) 520-6313
EMAIL: NINARUIZ@ELPASOCO.COM

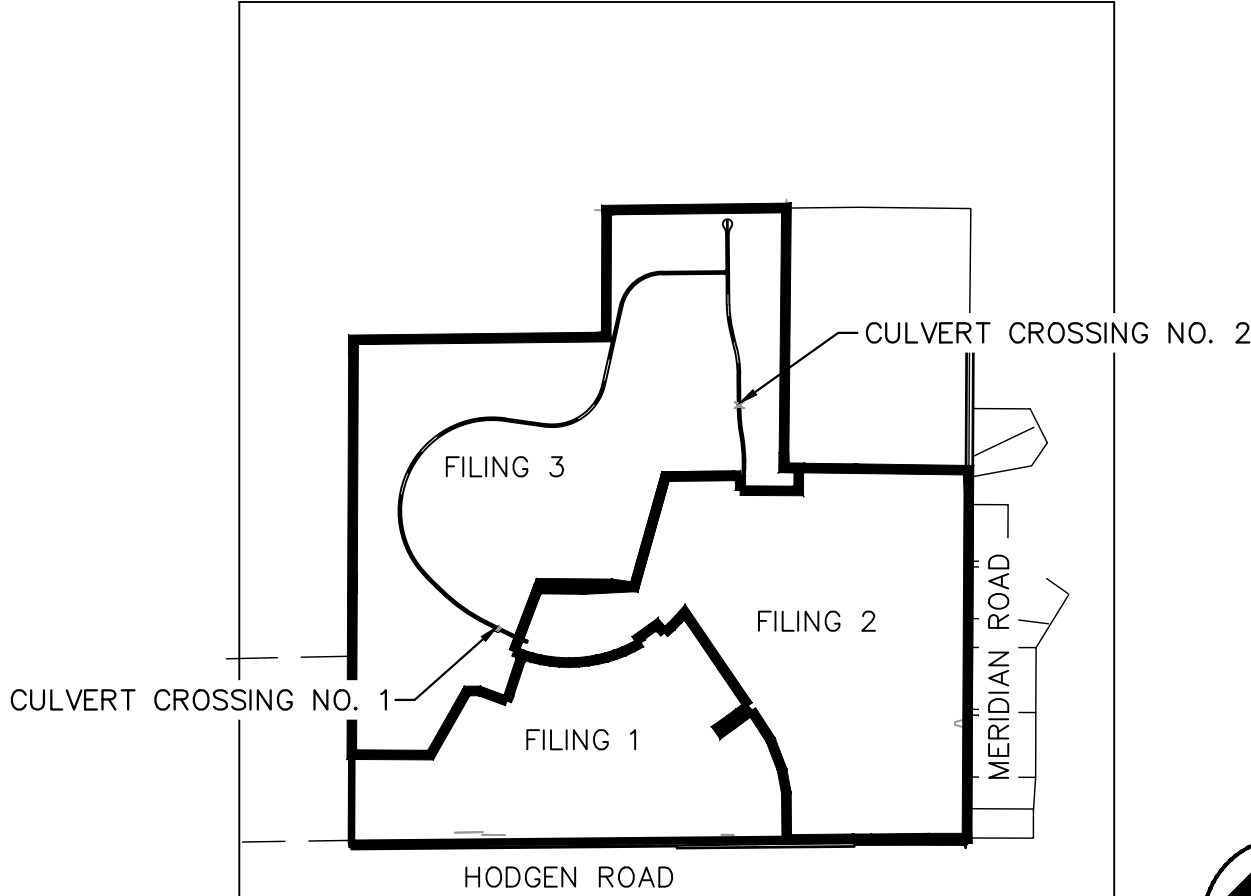
ENGINEERING REVIEWER:
GILBERT LAFORCE
TEL: (719) 520-7945
EMAIL:
GILBERTLAFORCE@ELPASOCO.COM

EPC DPW STORMWATER TEAM:
CHRISTINA FURCHAK
(719) 433-4863
EMAIL:
CHRISTINAFURCHAK@ELPASOCO.COM

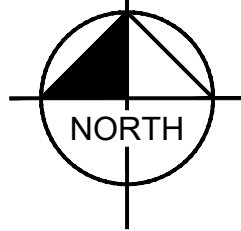
EPC PCD INSPECTIONS SUPERVISOR:
TEM: BRAD WALTERS
(719) 520-6819
EMAIL: BRADWALTERS@ELPASOCO.COM

FALCON FIRE DEPARTMENT:
AREA: FAL D2
FIRE CHIEF T. HARWIG
7030 OLD MERIDIAN ROAD
PAYTON, CO 80831
TEL: (719) 495-4050
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



VICINITY MAP
1"=2,000'



FLOODPLAIN NOTE

FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP, MAP NUMBER 08041C0350G, EFFECTIVE DECEMBER 7, 2018 INDICATES THE AREA IN THE VICINITY OF THIS PARCEL OF LAND TO BE IN ZONE X (AREA DETERMINED TO BE OUT OF THE 500 YEAR FLOODPLAIN). A CONDITIONAL LETTER OF MAP REVISION HAS BEEN PROCESSED AND APPROVED FOR THIS REACH OF WEST KIOWA CREEK.

LEGEND

---	LOT BOUNDARY LINE
---XXXX---	EXISTING MAJOR CONTOUR
-----XXXX-----	EXISTING MINOR CONTOUR
---XXXX---	PROPOSED MAJOR CONTOUR
-----XXXX-----	PROPOSED MINOR CONTOUR
- - - - -X- - - - -	EFFECTIVE 100 YEAR FLOODPLAIN
	PROPOSED 100 YEAR FLOODPLAIN PER CLOMR
=====	DELINEATED WETLAND
=====	UTILITY EASEMENT
---	R.O.W. LINE
=====	EDGE OF PAVEMENT

SEQUENCE NOTES:

THIS PLANS MUST BE CONSTRUCTED IN CONJUNCTION WITH THE FOLLOWING:

- GRADING TO BE INCLUDED BY PCD NO. EGP215 (WINSOME FILING NO. 3 EARLY GRADING PERMIT)
- ROADWAY CONSTRUCTION TO INCLUDED BY PCD NO. VR222 (WINSOME FILING NO. 3 FINAL PLAT)

SHEET INDEX:

SHEET NO.	SHEET TITLE
1	COVER SHEET
2	HORIZONTAL CONTROL
3	SITE PLAN
4	SITE PLAN
5	CULVERT 1-PLAN & PROFILE
6	CULVERT 2-PLAN & PROFILE
7	ALAMAR WAY PROFILE
8	TWINKLING STAR LANE PROFILE
9	CULVERT DETAILS
10	CULVERT DETAILS
11	GUARDRAIL DETAILS
12	GUARDRAIL DETAILS

OWNER'S STATEMENT

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

OWNER SIGNATURE _____ DATE _____

JOE DESJARDIN, DIRECTOR OF ENTITLEMENTS
WINSOME, LLC
1864 WOODMOOR DRIVE, SUITE 100
MONUMENT, CO 80132

ENGINEER'S STATEMENT

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.

KEVIN KOFFORD, PE (CO #57234) - 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 DIRECTOR'S DISCRETION.

JENNIFER IRVINE, PE COUNTY ENGINEER/ECM ADMINISTRATOR _____ DATE _____

PCD FILE NO. CDR-21-012

Kimley»Horn

2021 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: KRK
DRAWN BY: JRH
CHECKED BY: KRK
DATE: 9/3/2021

WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
COVER SHEET

PRELIMINARY
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NOT FOR
CONSTRUCTION
Kimley»Horn
Kimley-Horn and Associates, Inc.

PROJECT NO.
196106001
SHEET

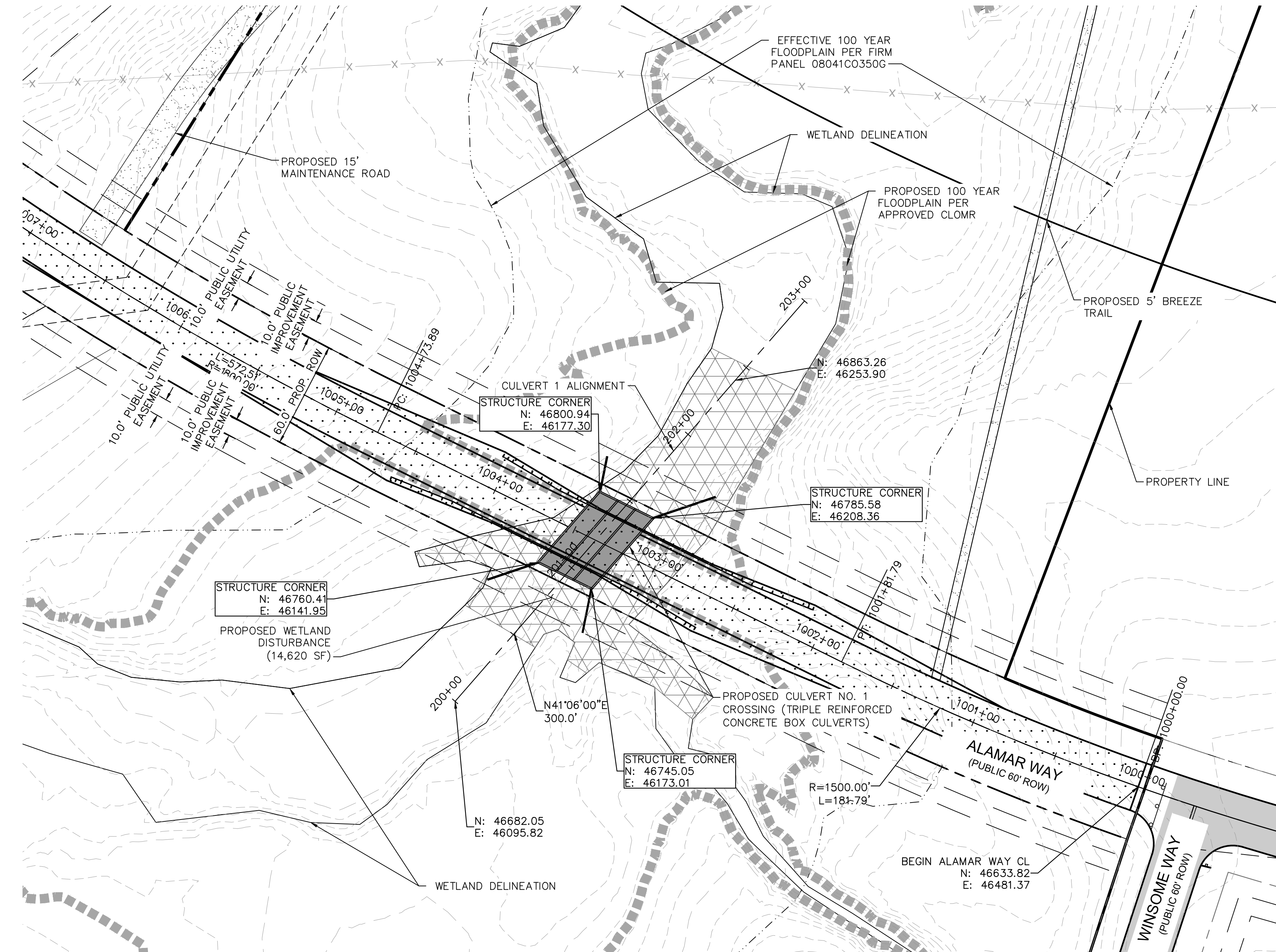
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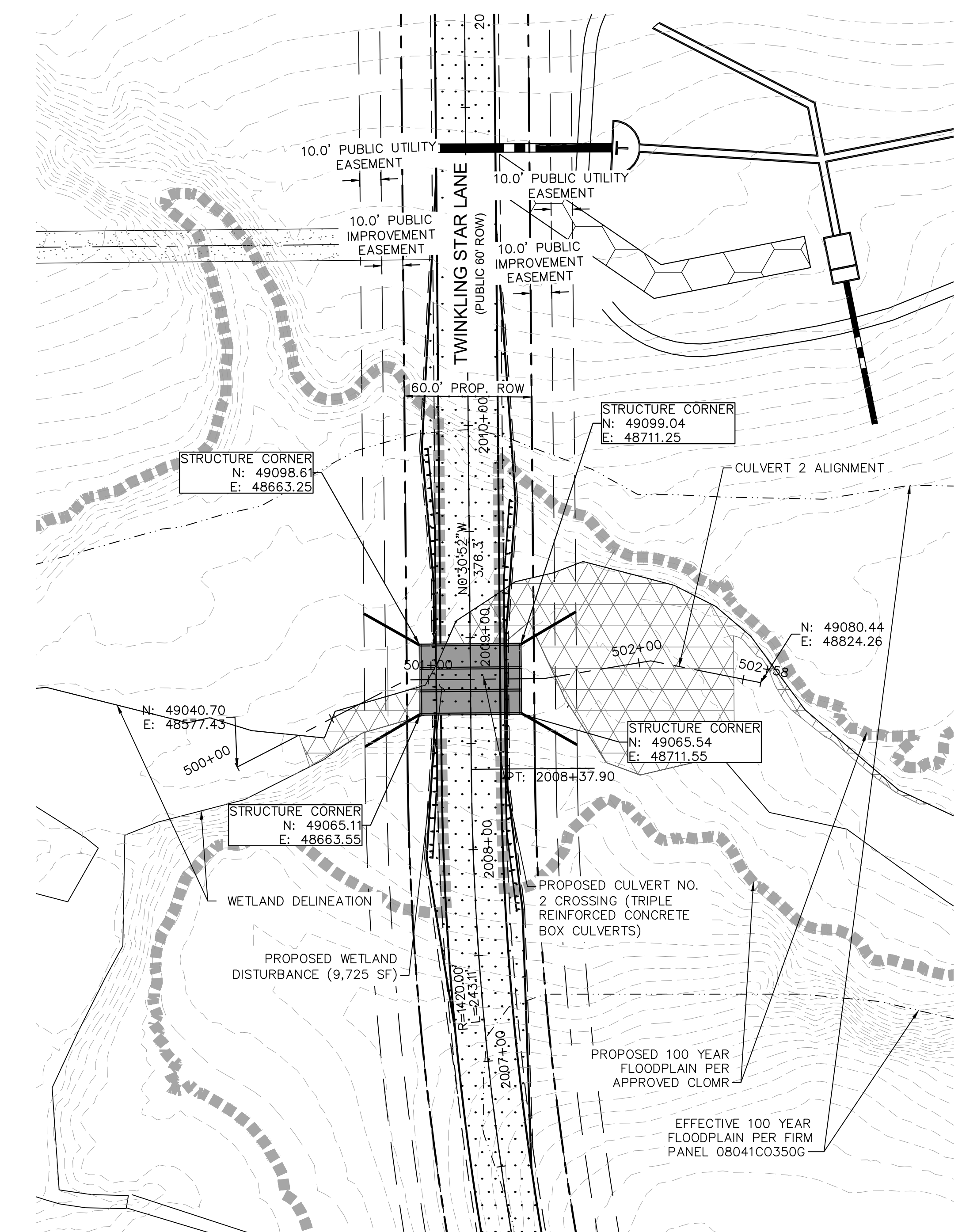
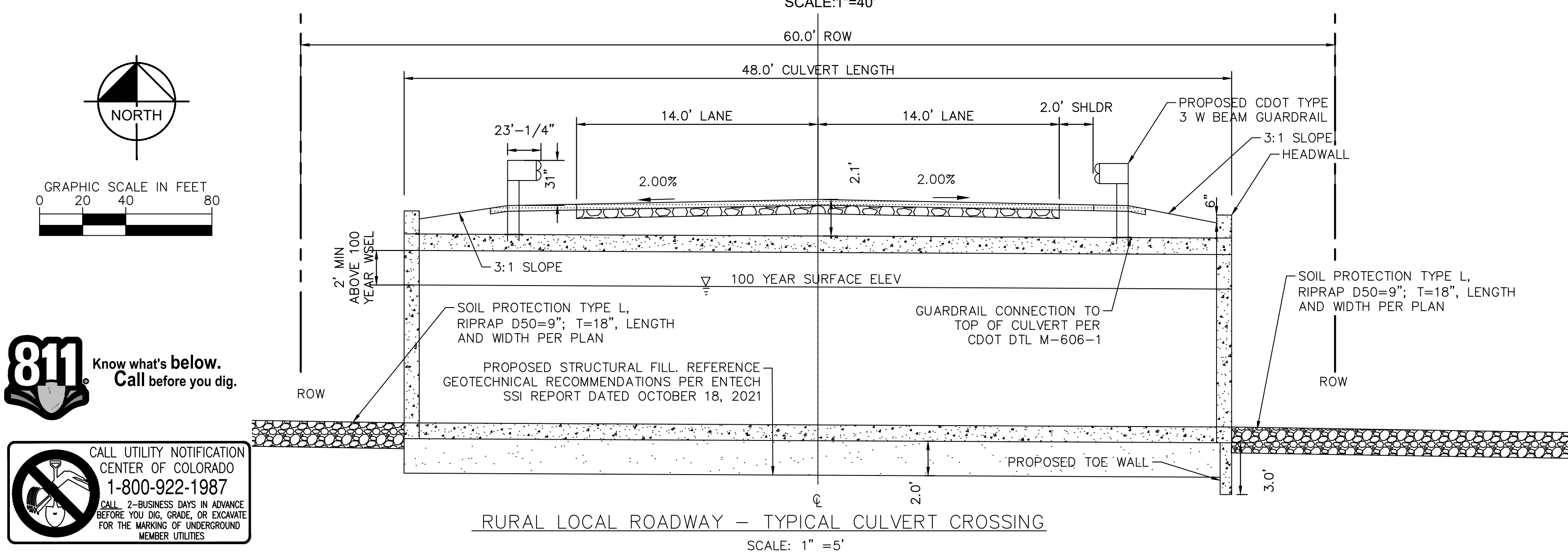
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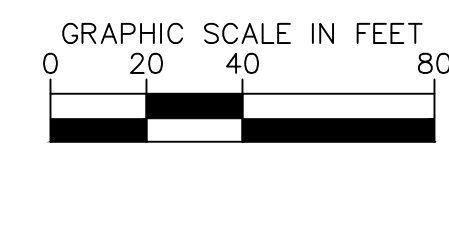
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CULVERT CROSSING NO. 1
SCALE: 1"=40'

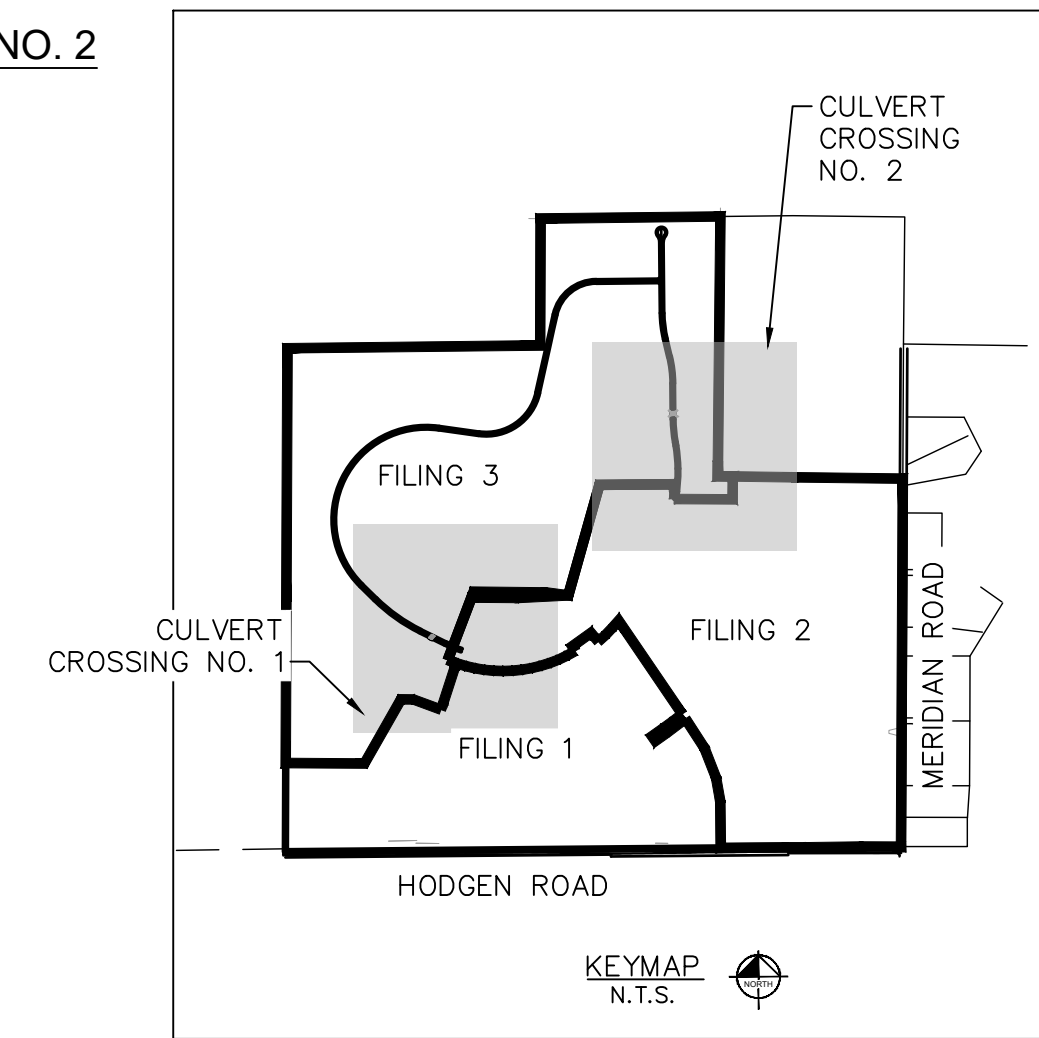


CULVERT CROSSING NO. 2
SCALE: 1"=40'



NOTES

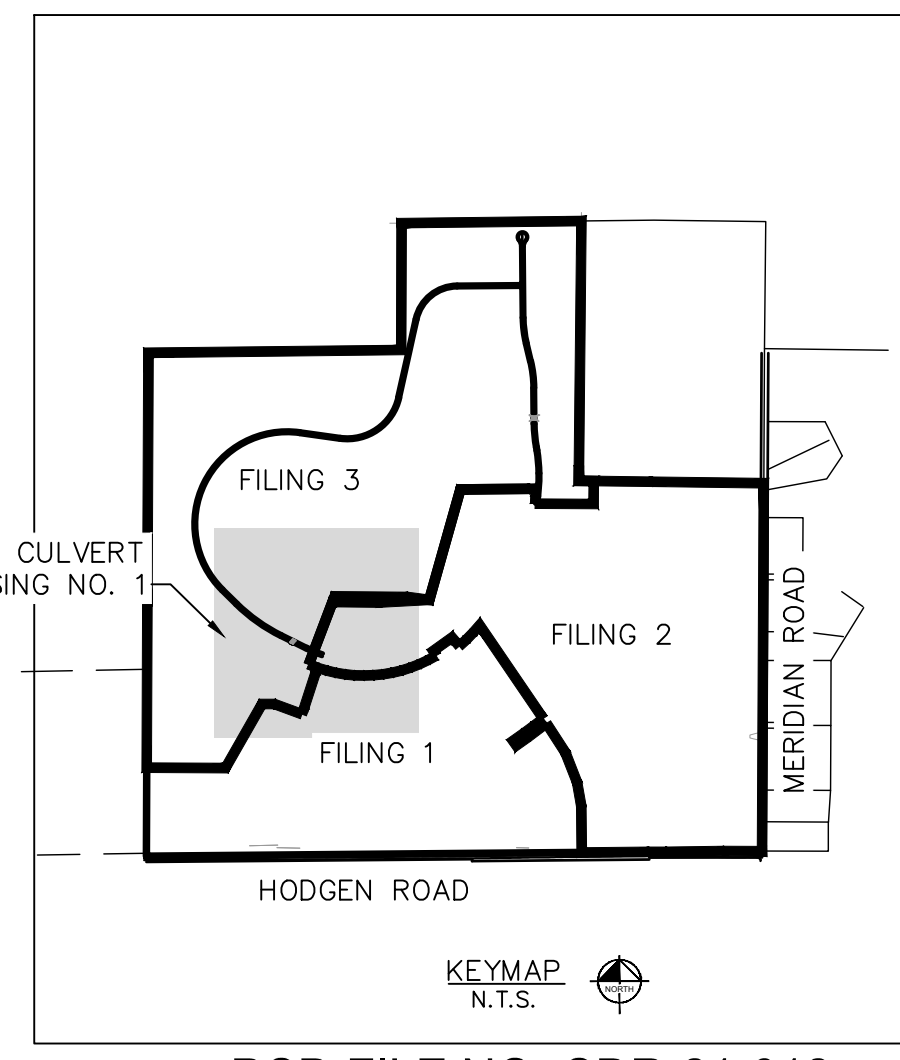
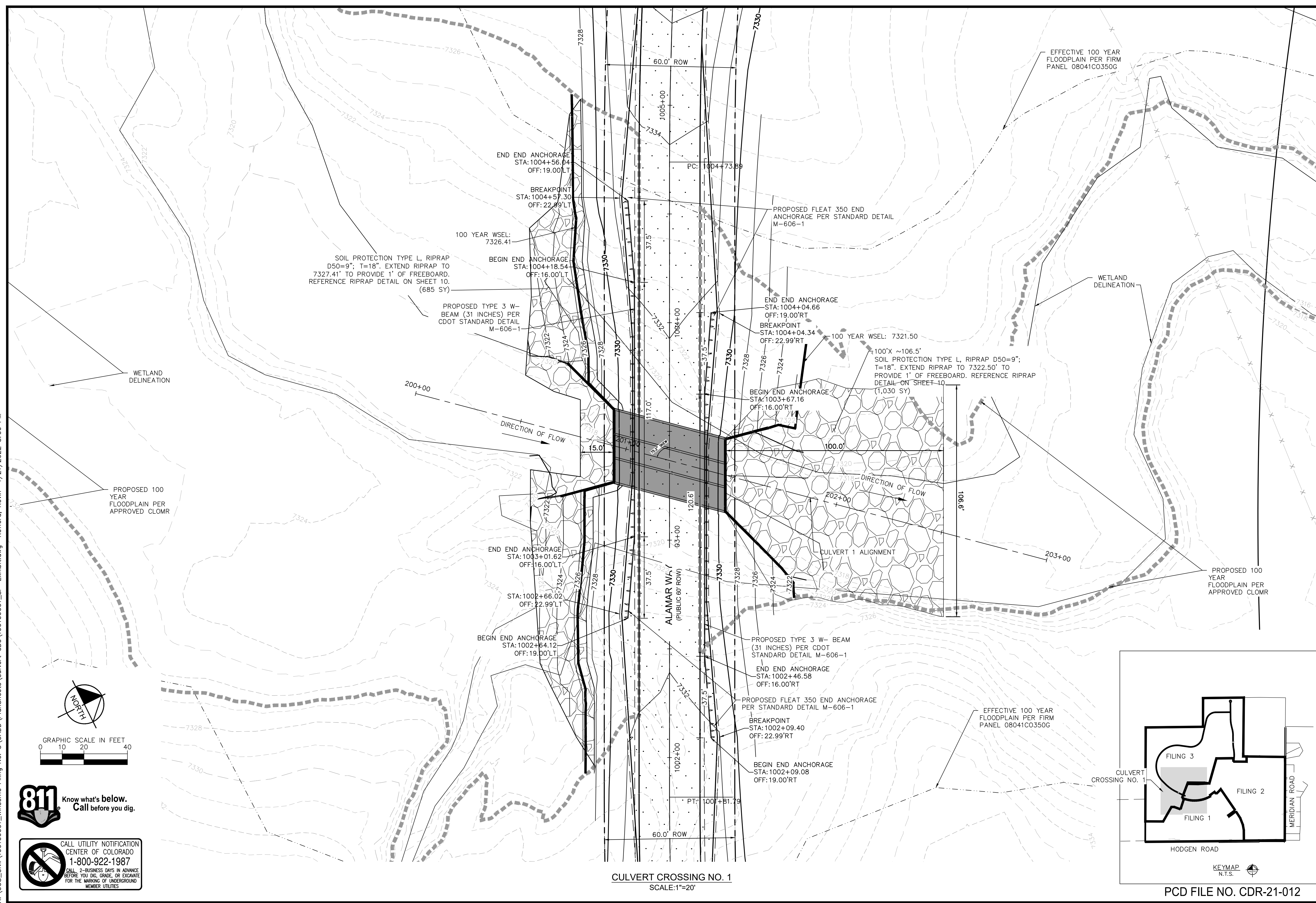
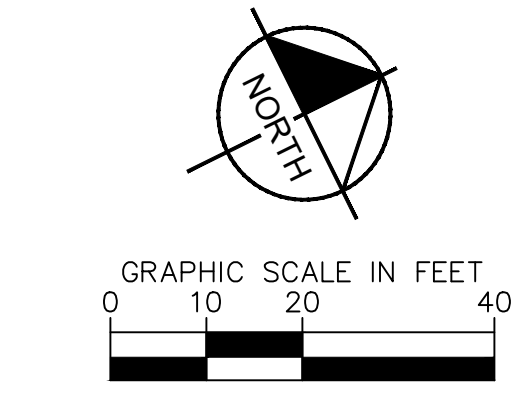
1. ROADWAY LAYOUT IS FOR REFERENCE ONLY. REFERENCE WINSOME FILING NO. 3 CONSTRUCTION DOCUMENTS FOR ROADWAY PLAN AND PROFILES
2. GUARDRAIL WILL BE INSTALLED WITH INSTALLATION OF THE REINFORCED CONCRETE BOX CULVERTS AND THIS PLAN. REFERENCE SHEETS 3 - 4. FOR GUARDRAIL DETAILS



PCD FILE NO. CDR-21-012

KIMLEY-HORN AND ASSOCIATES, INC. 2021 KIMLEY-HORN AND ASSOCIATES, INC. 2 North Nevada Avenue Suite 300 Colorado Springs, Colorado 80903 (719) 453-0180	
DESIGNED BY: KRK	DRAWN BY: JRH
CHECKED BY: KRK	DATE: 9/3/2021
WINSOME FILING NO. 3 EL PASO COUNTY, COLORADO CONSTRUCTION DOCUMENTS HORIZONTAL CONTROL	
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PROJECT NO. 196106001	
SHEET 2	
NO.	1
REVISION	
BY	KRK
DATE	1/21/22
APPR	KRK

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2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

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CHECKED BY: KRK
DATE: 9/3/2021

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EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
SITE PLAN

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Kimley-Horn and Associates, Inc.

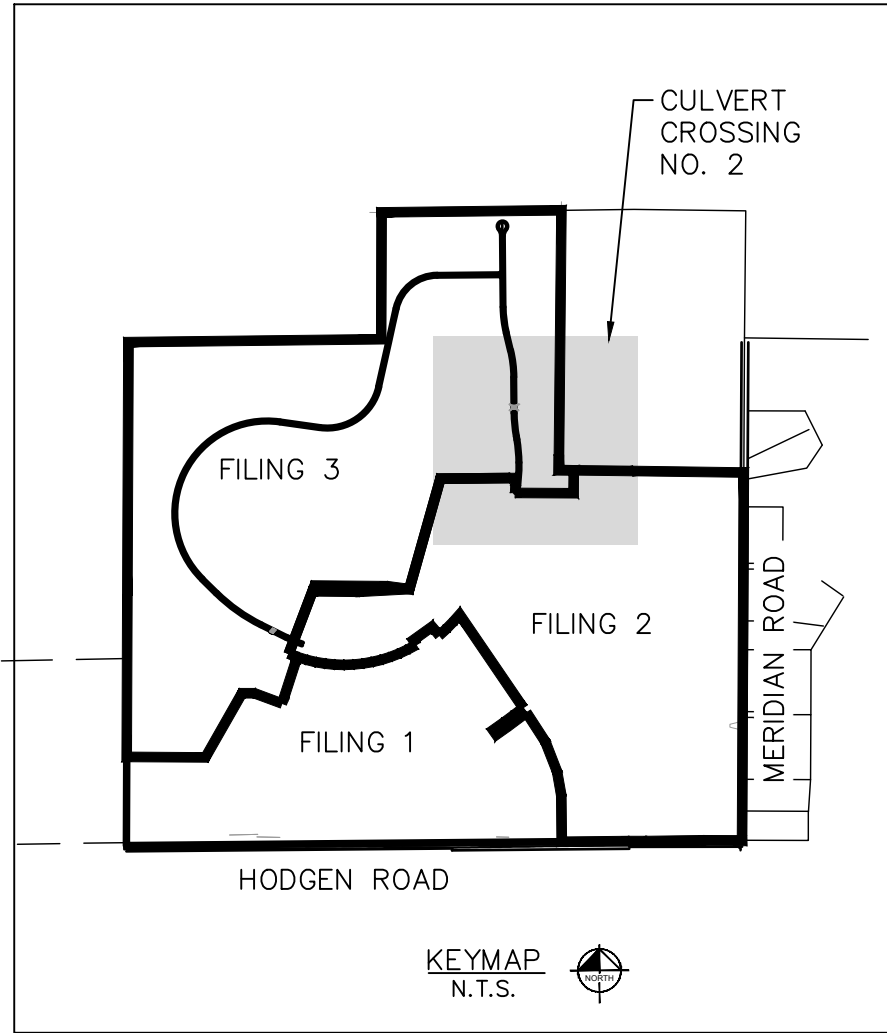
PROJECT NO.
196106001

SHEET
3

NO.	REVISION	DATE	BY	DATE	APPR.
1		1/21/22	KRK		

GRAPHIC SCALE IN FEET

0 10 20 40



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EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
SITE PLAN

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PROJECT NO. 196106001
SHEET

4

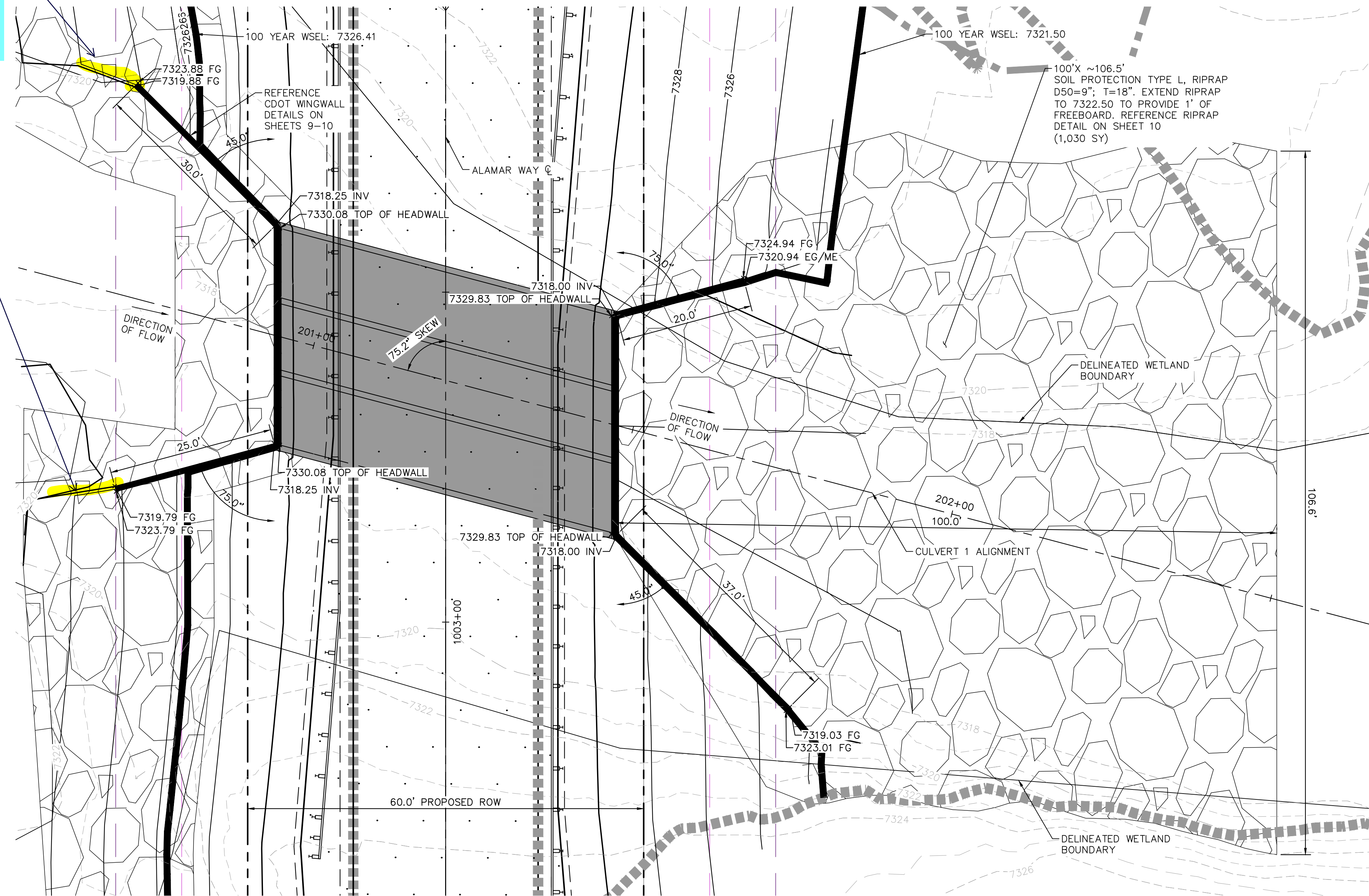
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Colorado Springs, Colorado 80903 (719) 453-0180

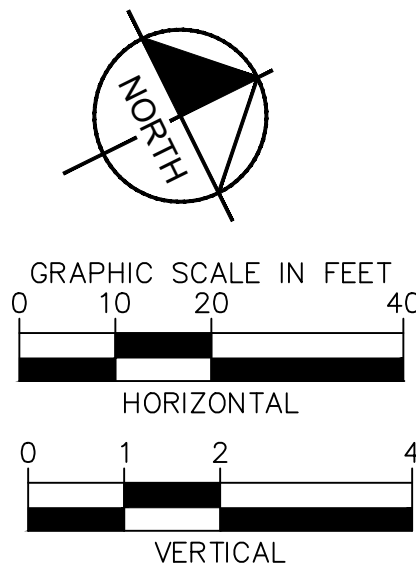
DESIGNED BY: KRK
DRAWN BY: JRH
CHECKED BY: KRK
DATE: 9/3/2021

Unresolved. Fix contours or extend retaining wall. The space between the contour lines indicated near vertical finished ground.

SPILL CONE IS
NOW GRADED
IN



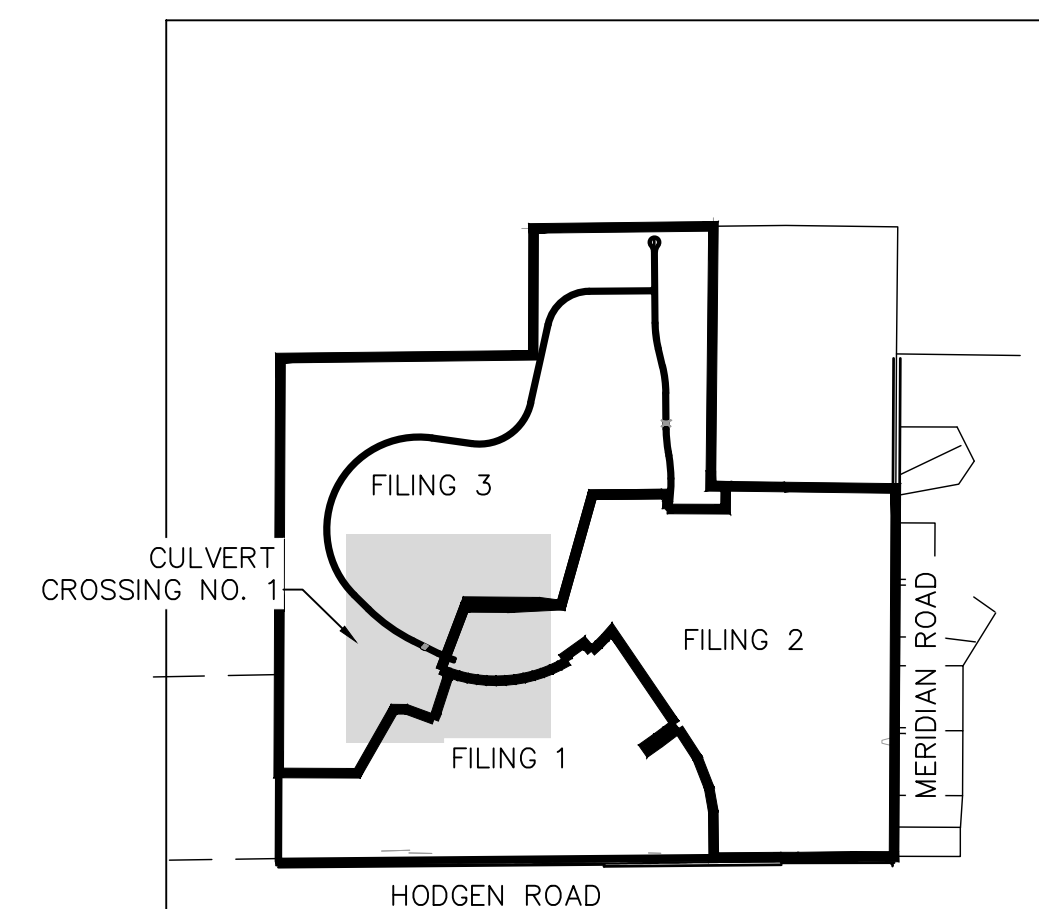
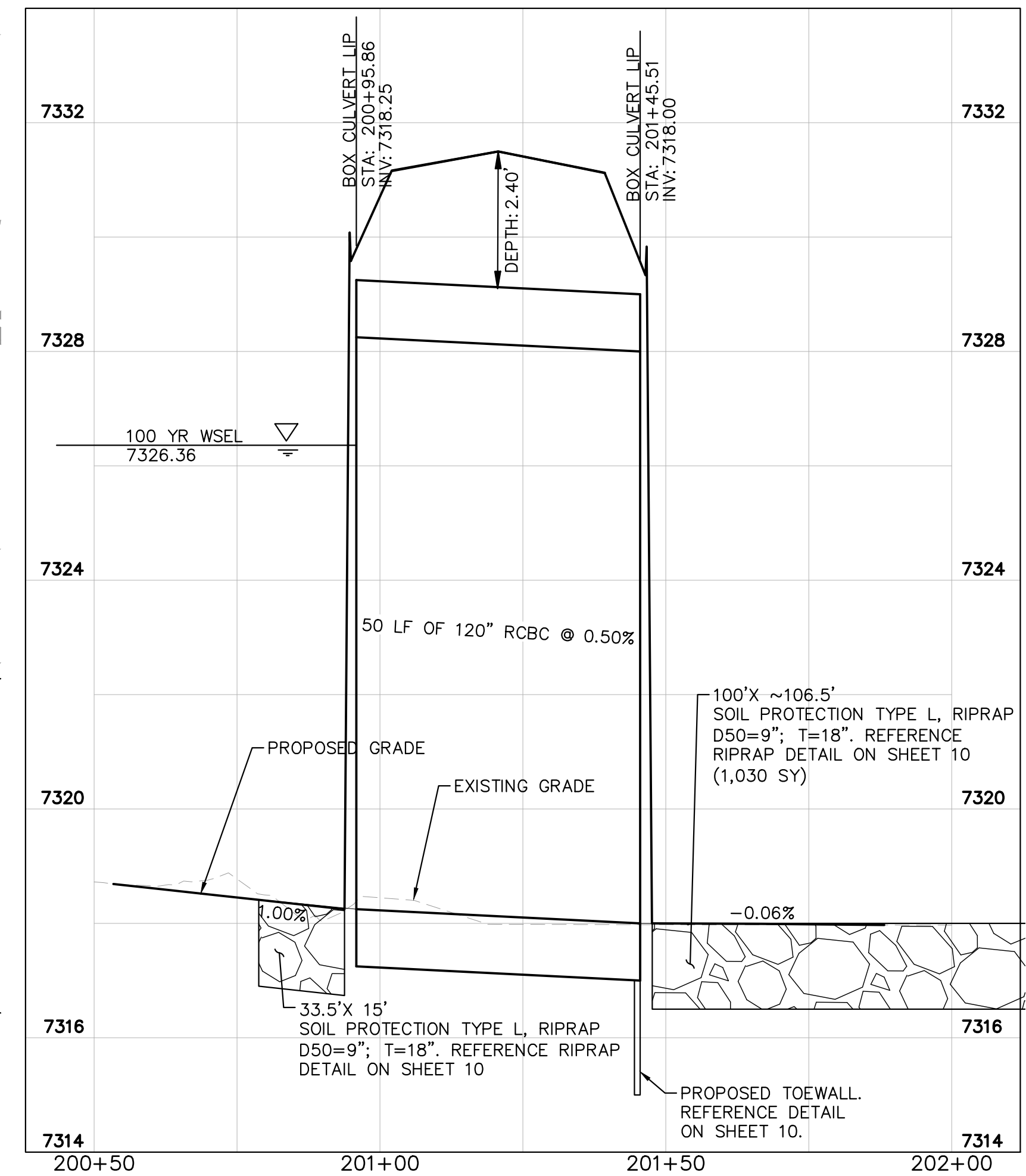
CULVERT CROSSING NO. 1
SCALE:1"=10'



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**



PCD FILE NO. CDR-21-012

[illegible]

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2021 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 451-1111

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WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
CULVERT 1-PLAN & PROFILE

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Kimley-Horn and Associates, Inc.

PROJECT NO.
196106001

SHEET

5

SPILL CONE IS NOW GRADED IN

see comment on previous page regarding FG elevations.

100' X ~140.2'
SOIL PROTECTION TYPE M,
RIPRAP D50=12"; T=24"
EXTEND RIPRAP 1' ABOVE
100 YEAR WSEL 7383.36
(1,473 SY)

100 YEAR WSEL=7288.77

N \circ 30.52°W 376.3'

100 YEAR WSEL=7283.36

7285.84 FG
7281.84 FG

7291.59 TOP OF HEADWALL
7279.76 INV

7283.69 FG
7279.69 FG

7280.00 INV
7292.33 TOP OF HEADWALL

DIRECTION OF FLOW

501+00

502+00

CULVERT 2 ALIGNMENT

100.0'

7280.00 INV
7292.33 TOP OF HEADWALL

7286.56 FG
7282.56 FG

7291.59 TOP OF HEADWALL
7279.76 INV

PT: 2008+37.90

60.0' PROPOSED ROW

2008+00

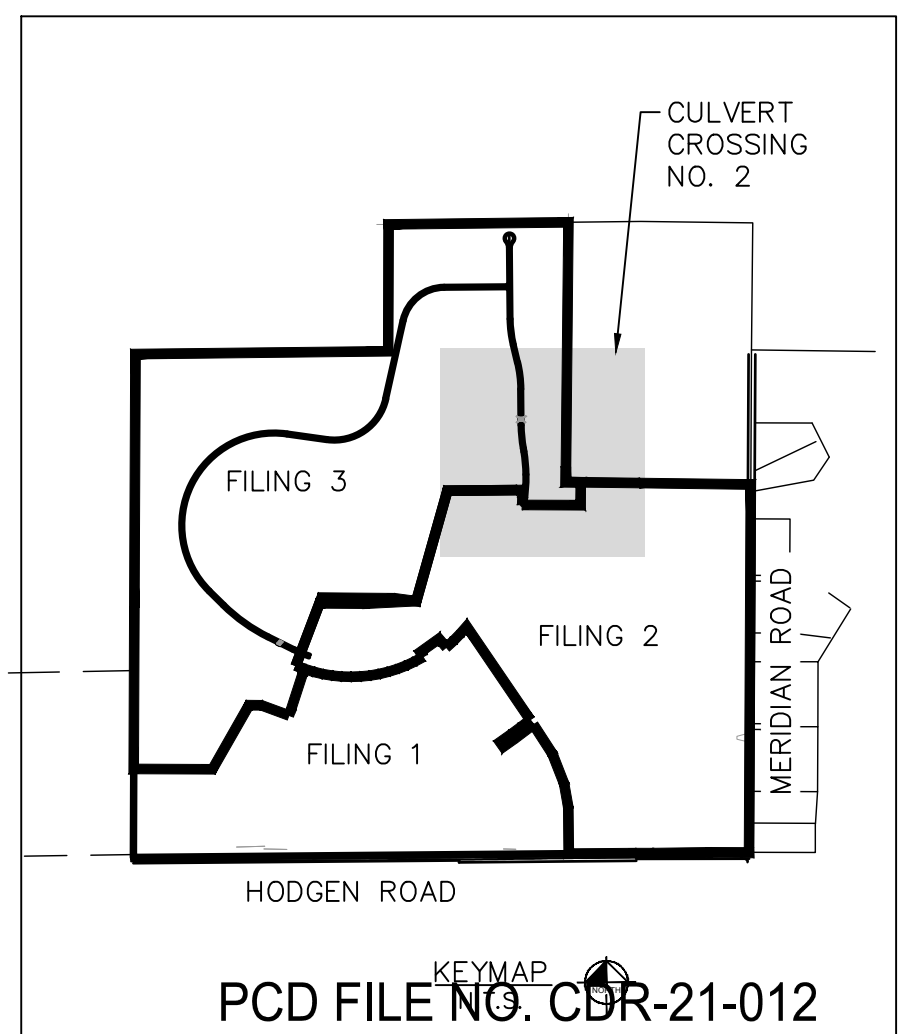
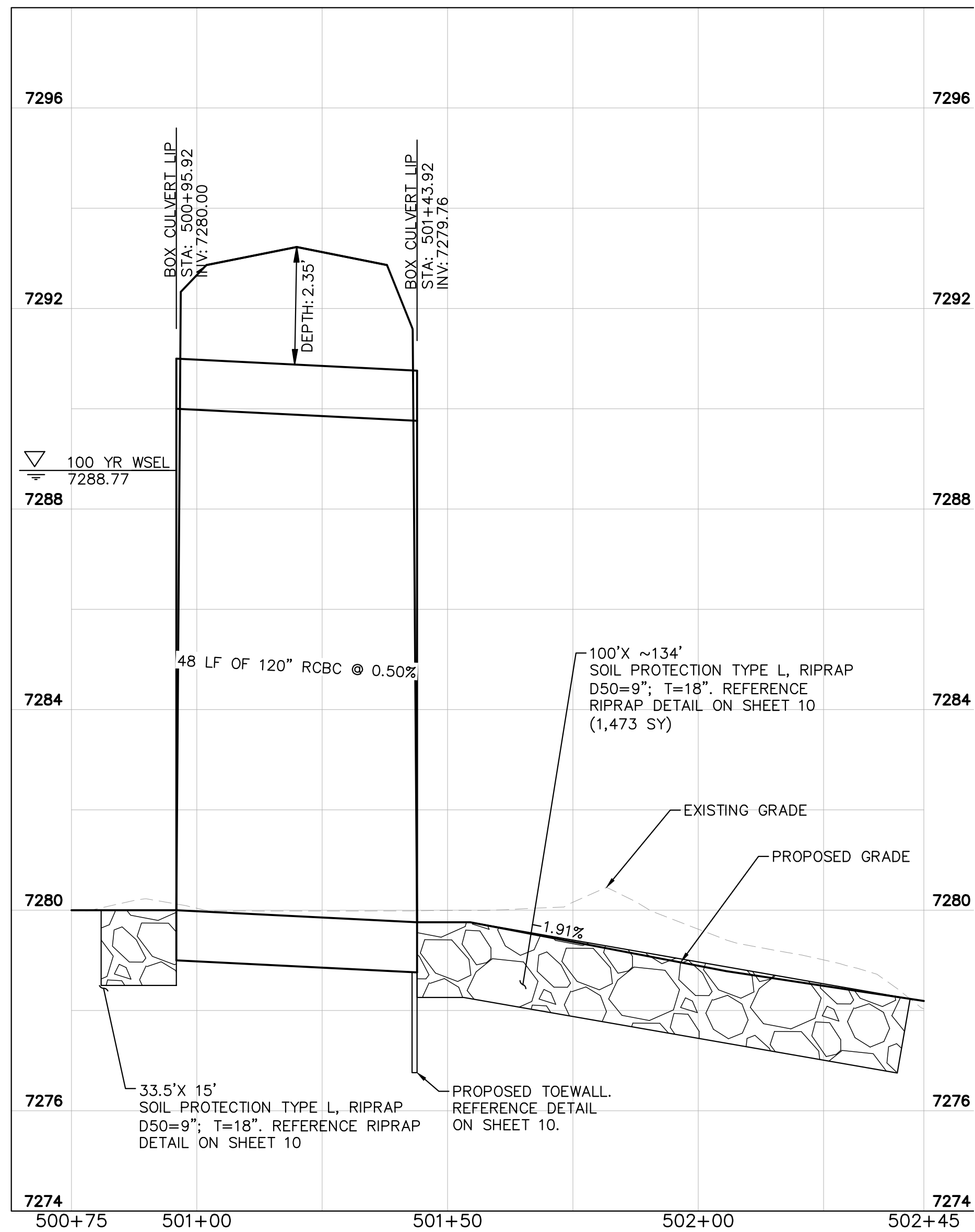
7281.22 FG
7285.22 FG

811 Know what's below.
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BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES

NORTH

CULVERT CROSSING NO. 2
SCALE: 1"=40'



WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
CULVERT 2-PLAN & PROFILE

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PROJECT NO. 196106001
SHEET

6

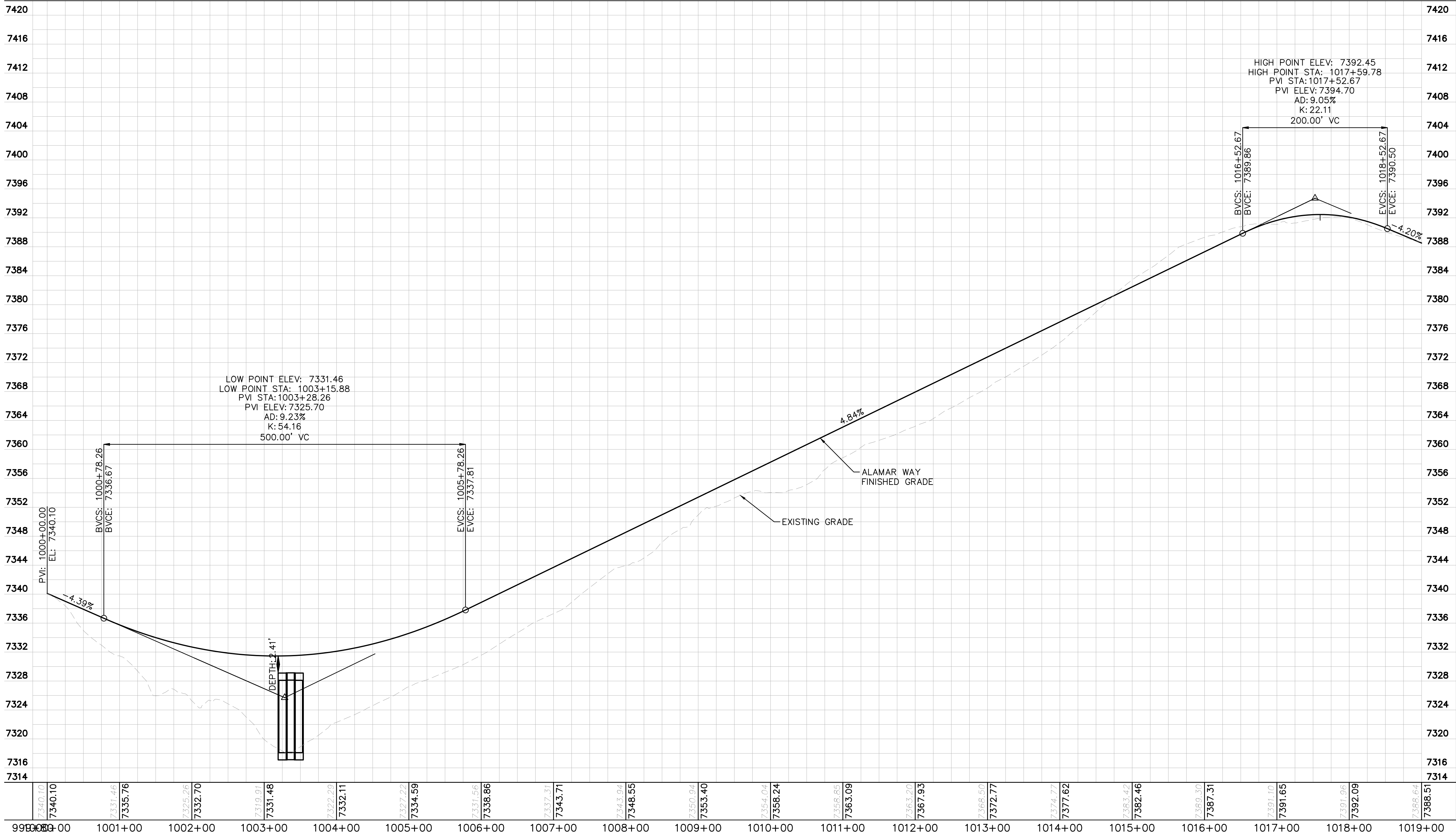
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Kimley»»Horn

Kimley»»Horn
2021 KIMLEY-HORN AND ASSOCIATES, INC.
22 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 455-1100
www.kimley-horn.com

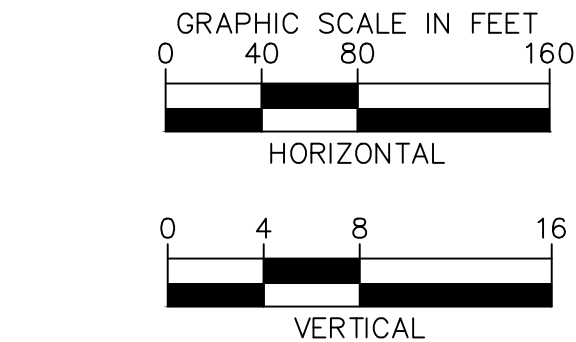
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DATE: 9/3/2021

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CULVERT CROSSING NO. 1- PROFILE
SCALE:1"=80'

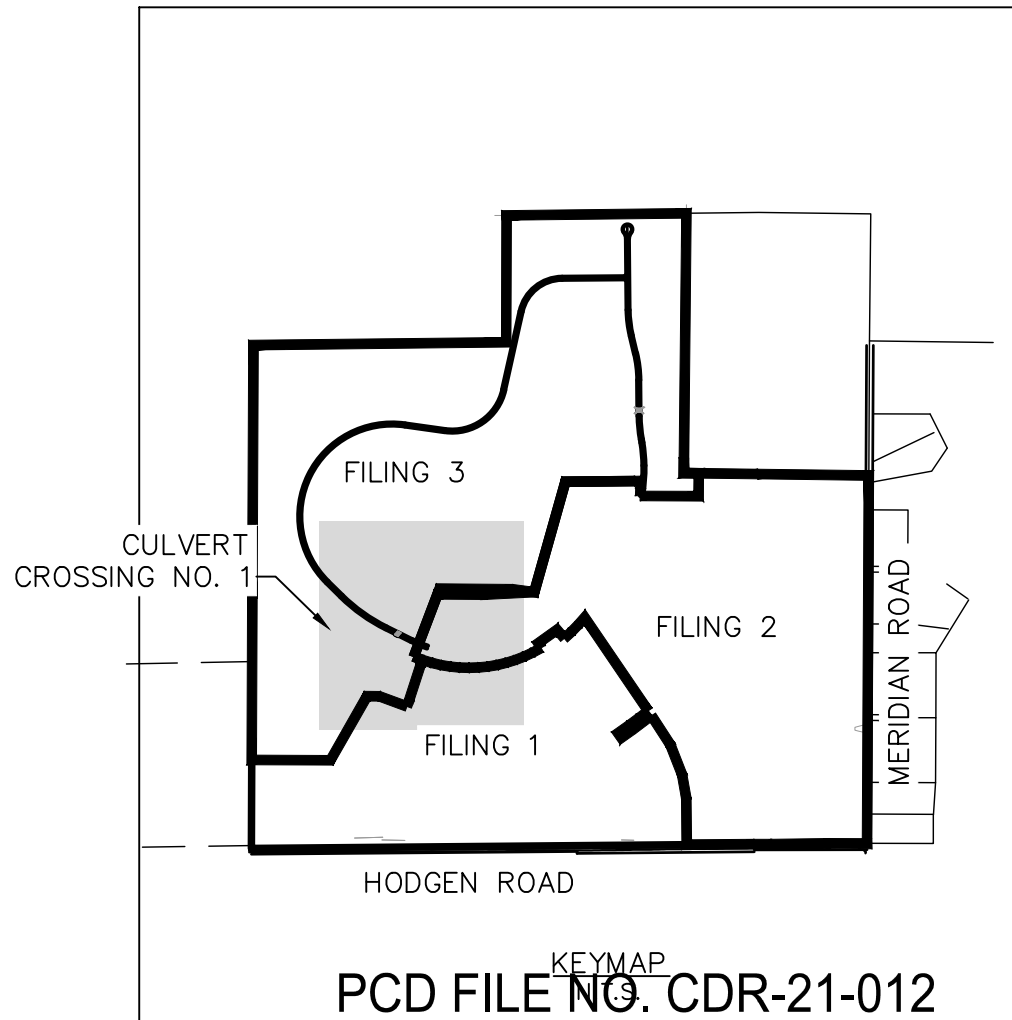
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WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
ALAMAR WAY PROFILE

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Kimley-Horn and Associates, Inc.

PROJECT NO.
196106001

SHEET

7

Kimley»Horn

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2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

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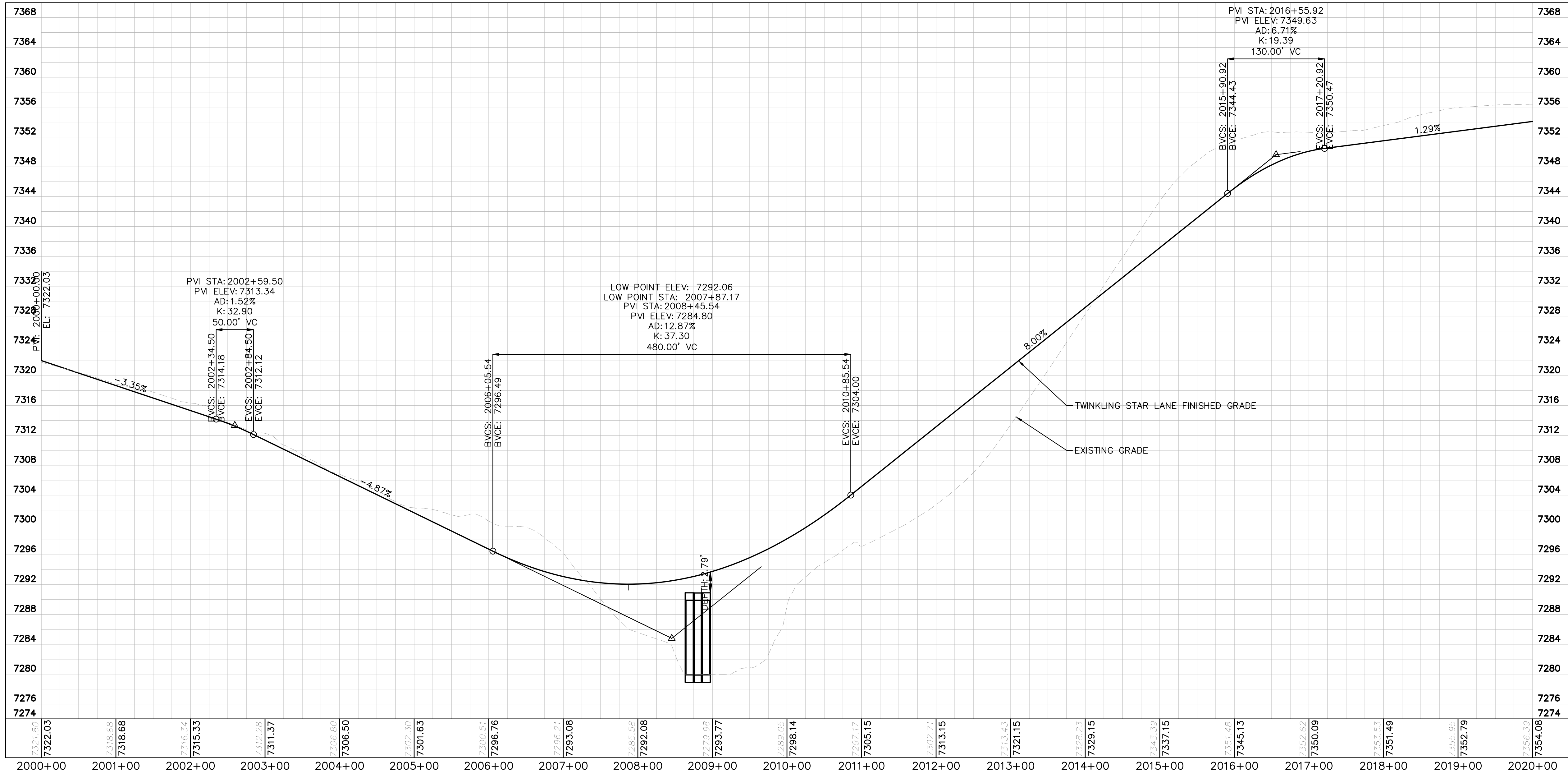
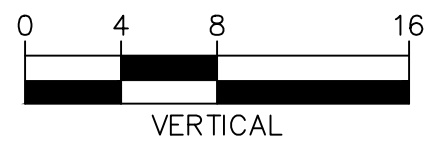
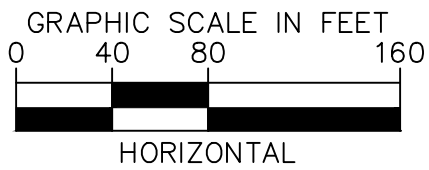
1
COUNTY RESUBMITTAL #1
REVISION
NO.

1/21/22
KRK
DATE
BY

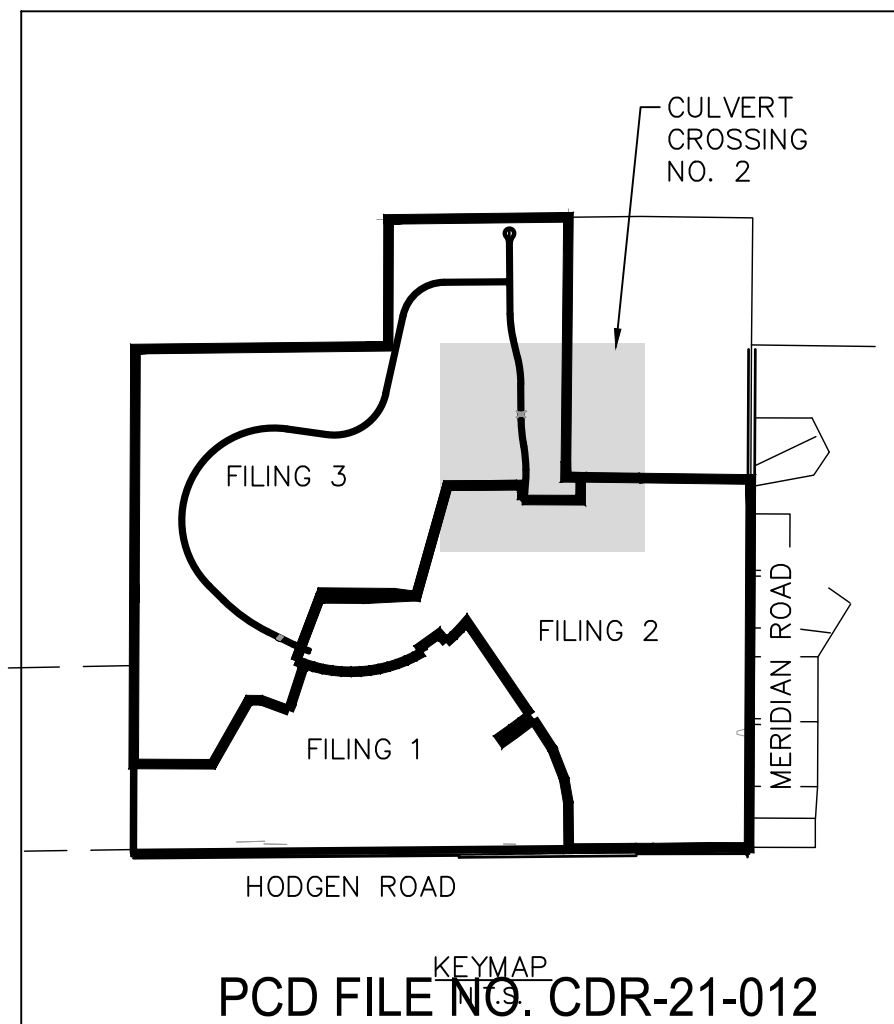
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WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
TWINKLING STAR LANE PROFILE

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PROJECT NO.
196106001

SHEET

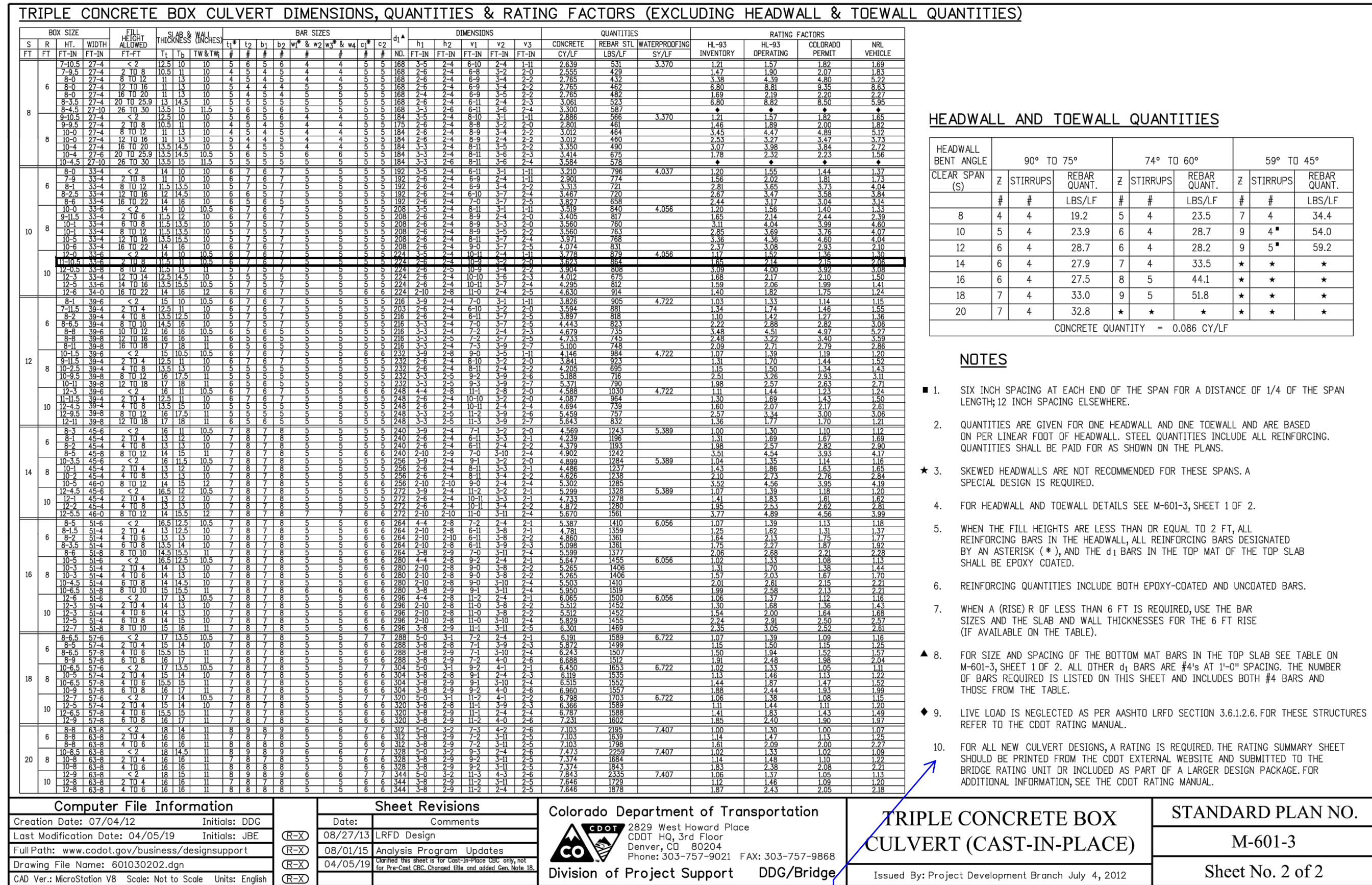
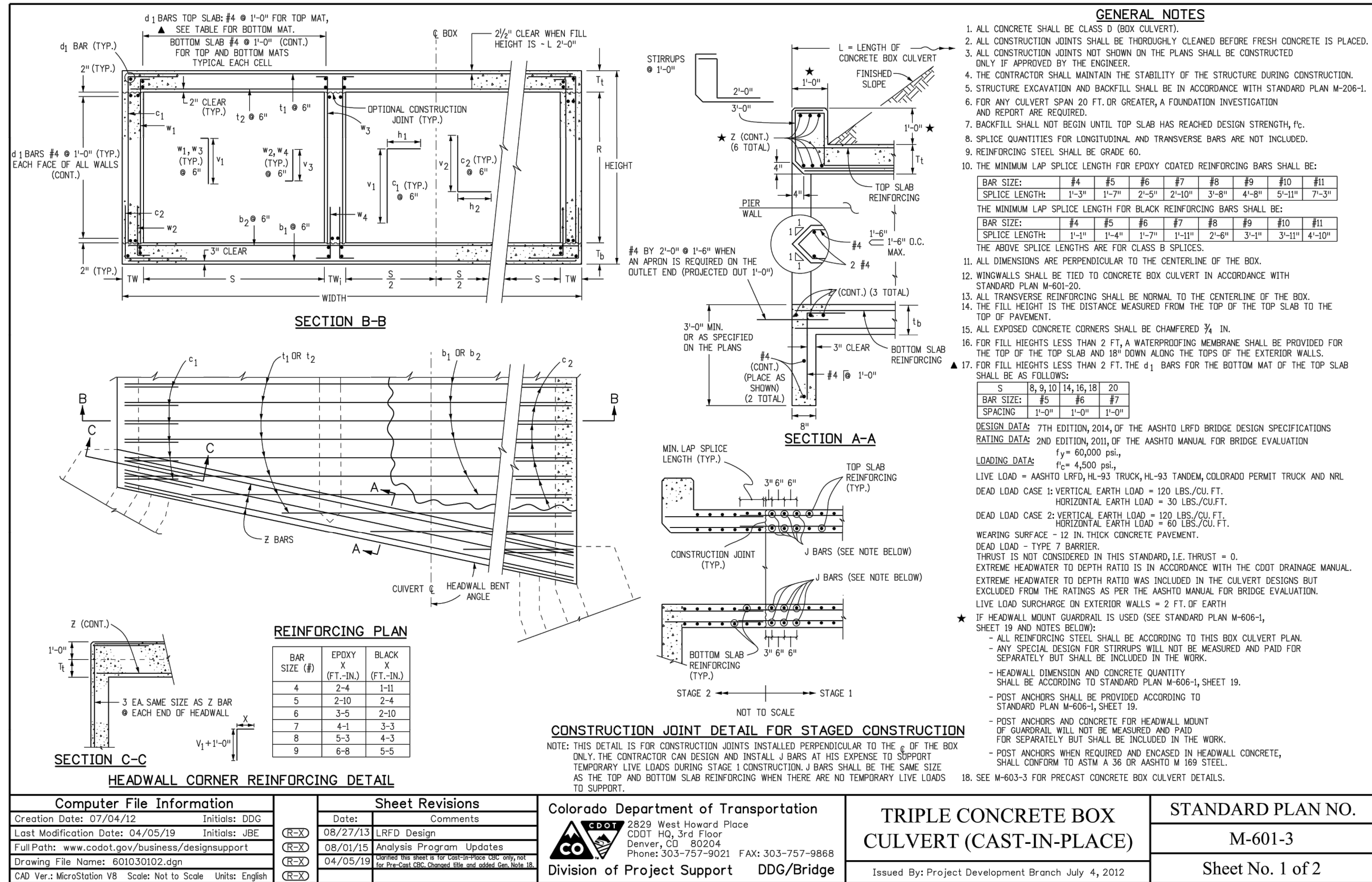
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Colorado Springs, Colorado 80903 (719) 453-0180

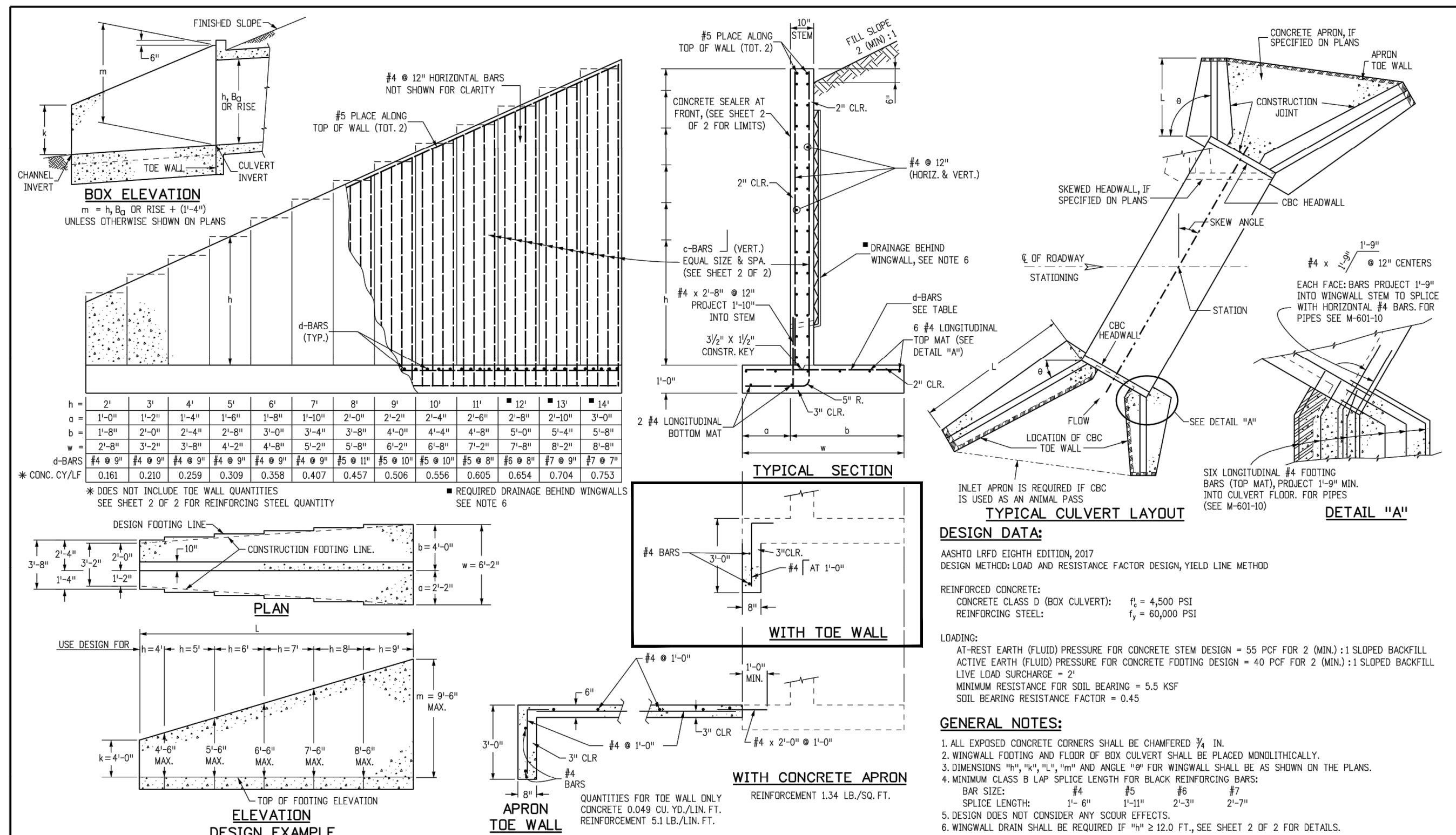
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DATE: 9/3/2021

NO.	REVISION	BY	DATE	APPR.
1	COUNTY RESUBMITTAL #1	KRK	1/21/22	KRK



Is this applicable and has this been provided?

SINCE THE STRUCTURAL DESIGN IS PER STANDARD DETAIL, THE RATING IS THE LAST 4 COLUMNS



1. D50 = MEAN PARTICLE SIZE (INTERMEDIATE DIMENSION) BY WEIGHT.
2. RIP RAP SHALL BE PER PLAN AND SHALL BE MIXED WITH 30% SOIL TO 70% RIP RAP.
3. RIP RAP SECTION THICKNESS SHALL BE 2.0 TIMES THE SPECIFIED MEAN PARTICLE SIZE (I.E. $D_{50} \times 2.0$ MINIMUM) PER ECM SECTION 10.10.3.
4. ALL RIP RAP SHALL BE UNDERLAIN WITH GEOTEXTILE FILTER FABRIC FOR STABILIZATION.
5. RIP RAP SHALL WRAP AROUND AND EXTEND $\geq 2'$ MIN. BEHIND FLUME AND FLARED END SECTIONS.

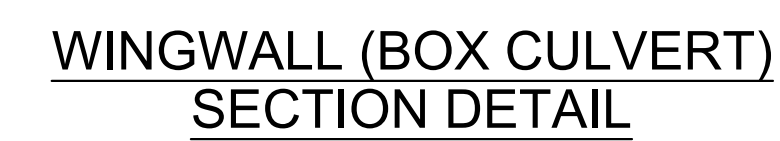
Table 9.5 Recommended wingwall flare angles (θ_a or θ_b)

Skew Angle, θ°	θ_n°	θ_b°
90	60	60
80	50	70
70	45	80
60	40	90
50	30	90
40	20	100
30	15	105
< 30	Consult the Region Hydraulic Engineer	

75° SKEW-CULVERT 1



Include Figure on plans



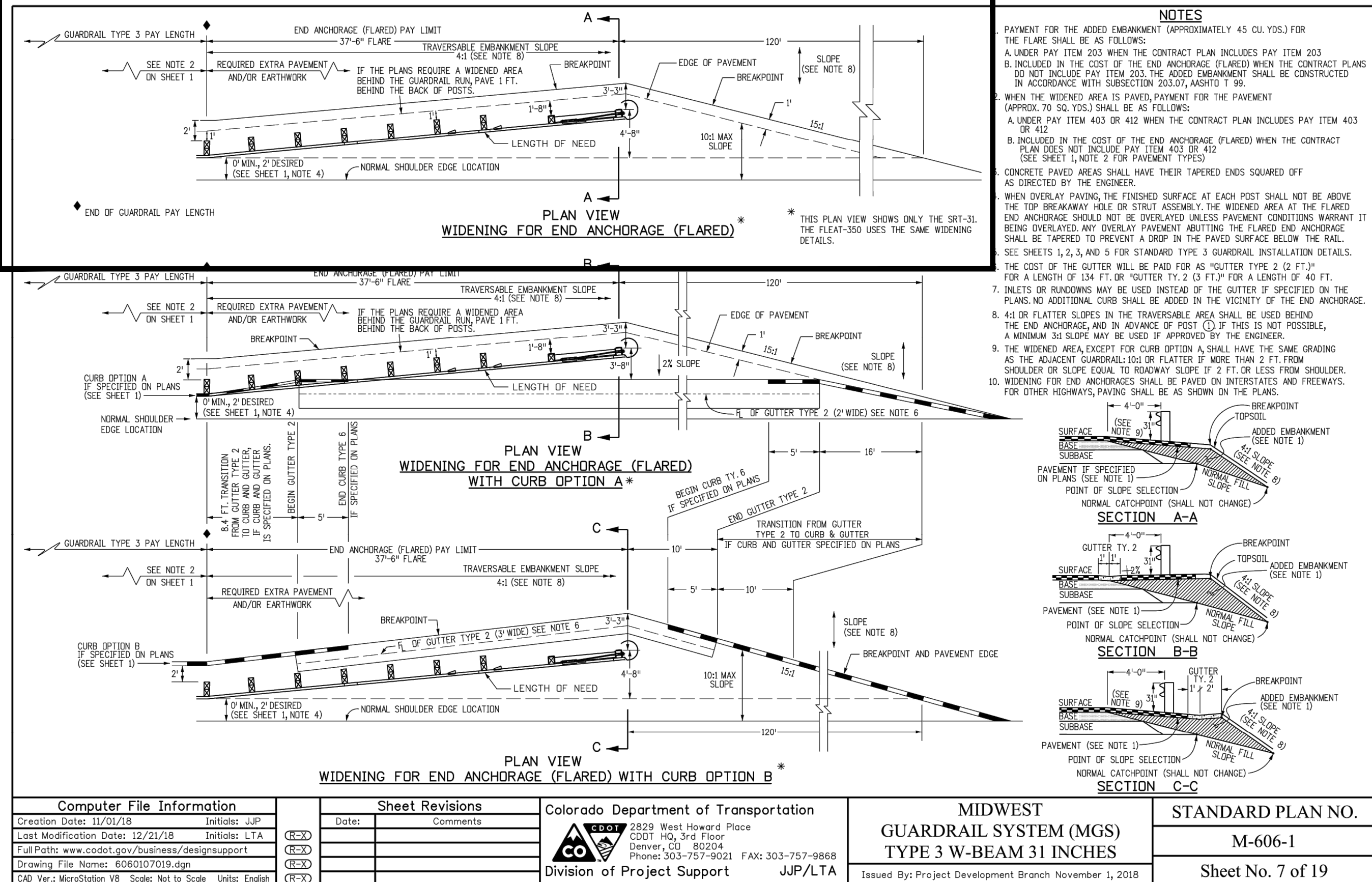
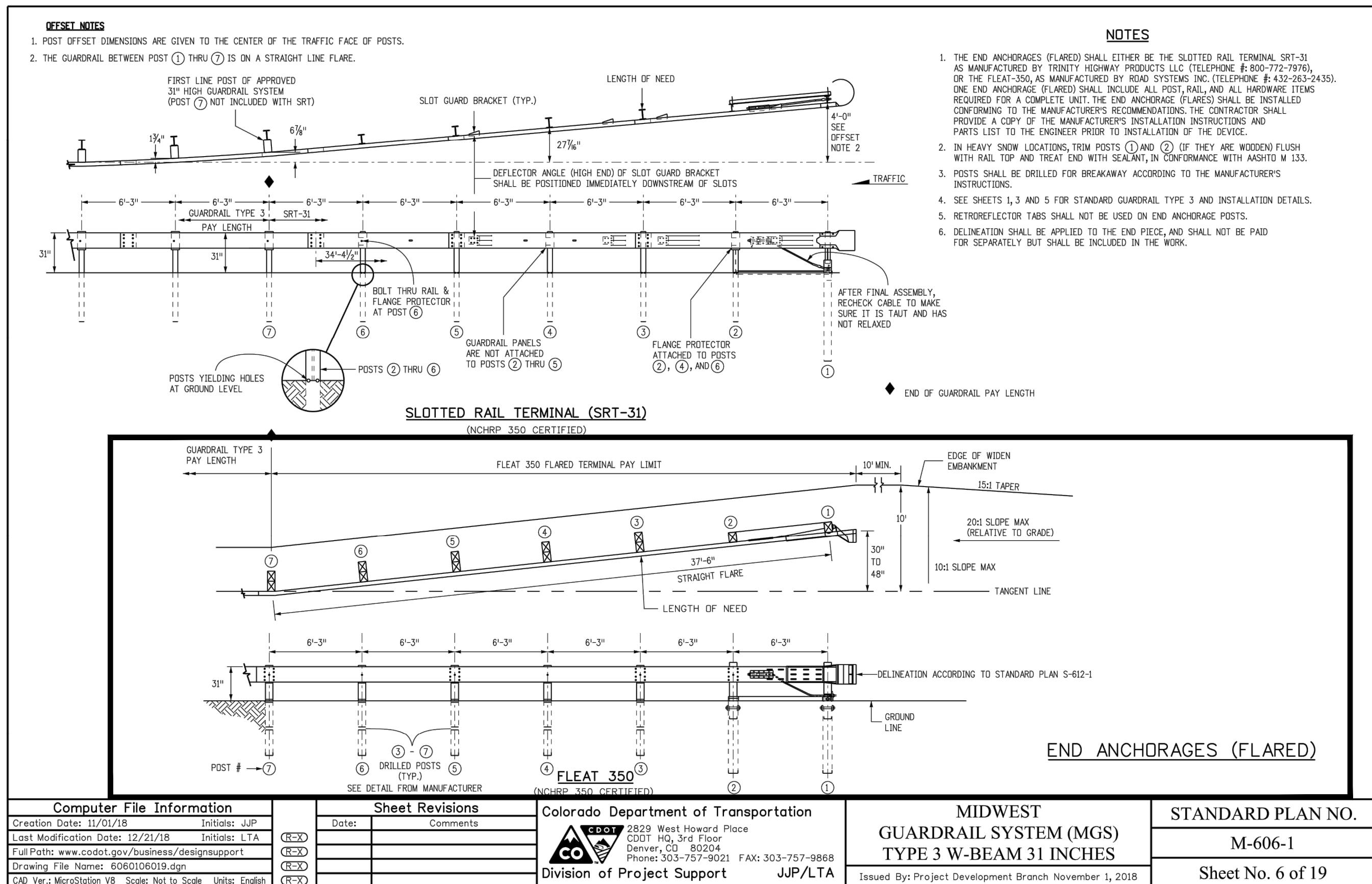
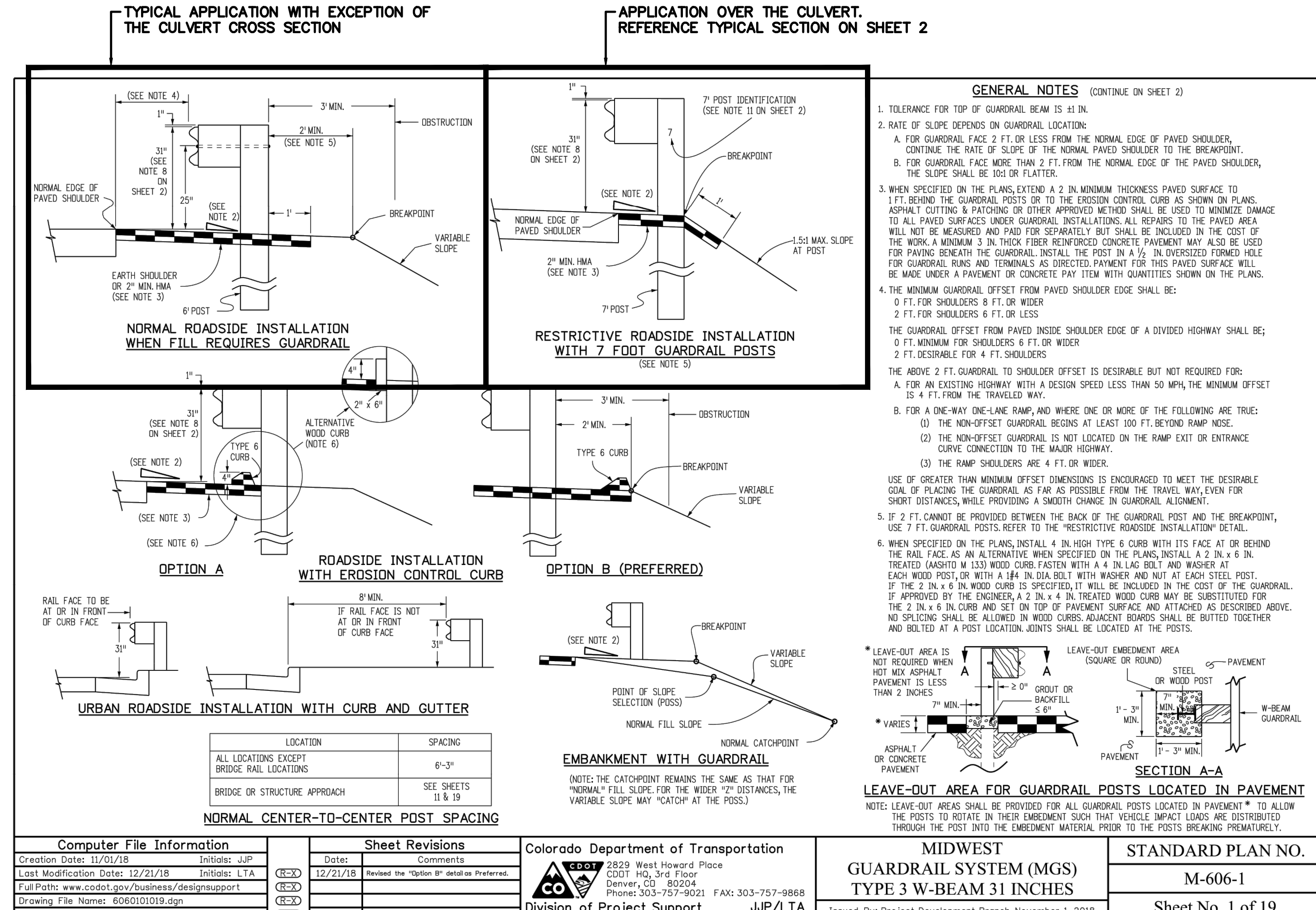
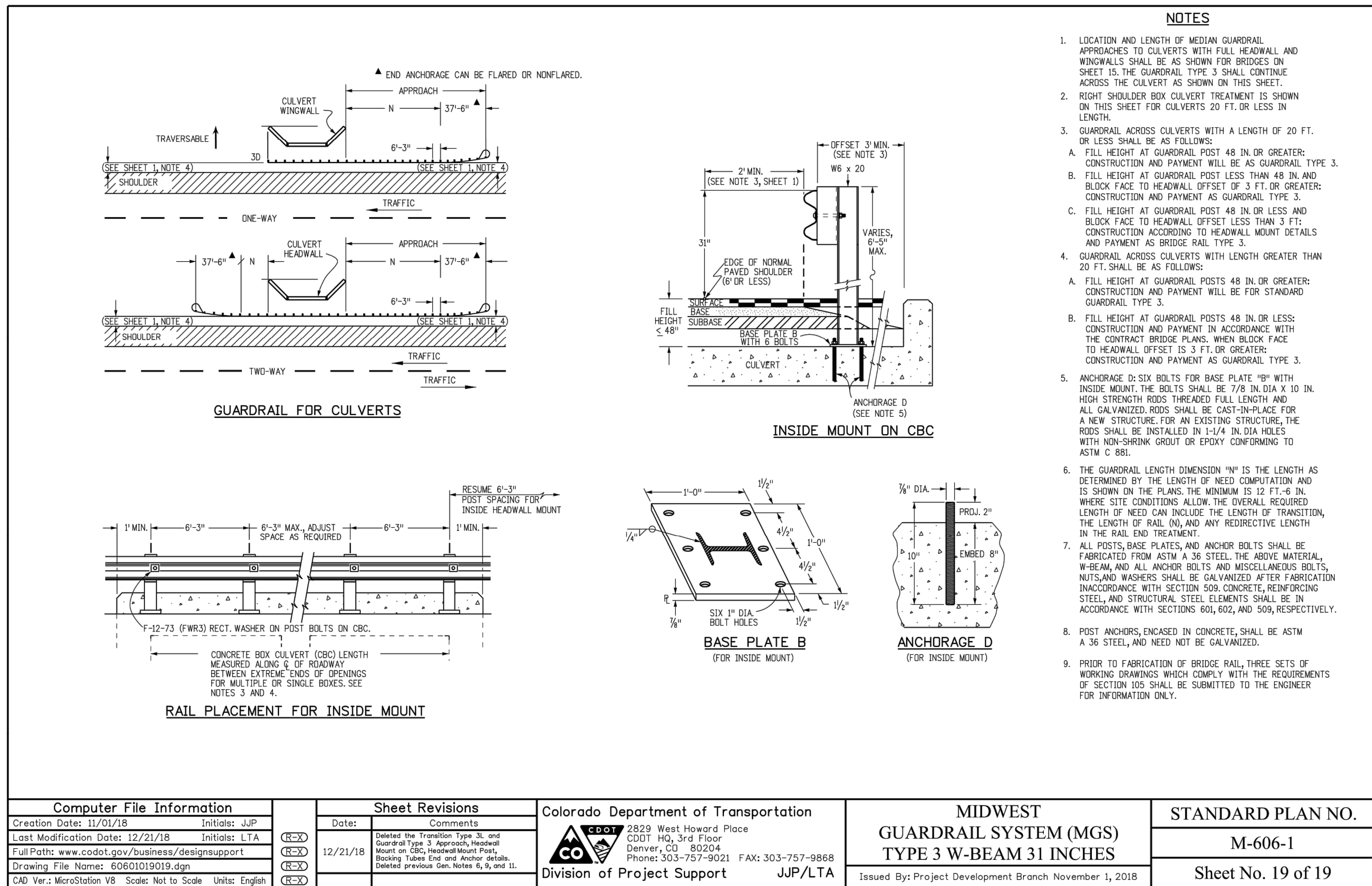
2021 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

**WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
CULVERT DETAILS**

10

PCD FILE NO. CDR-21-012

GUARDRAIL APPLICATION DETAILS



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NO.	REVISION	DATE	BY	DATE	BY
1		1/21/22	KRK		KRK

Kimley»Horn
 2021 KIMLEY-HORN AND ASSOCIATES, INC.
 2021 Nevada Avenue Suite 300
 Colorado Springs, Colorado 80903 (719) 453-0180

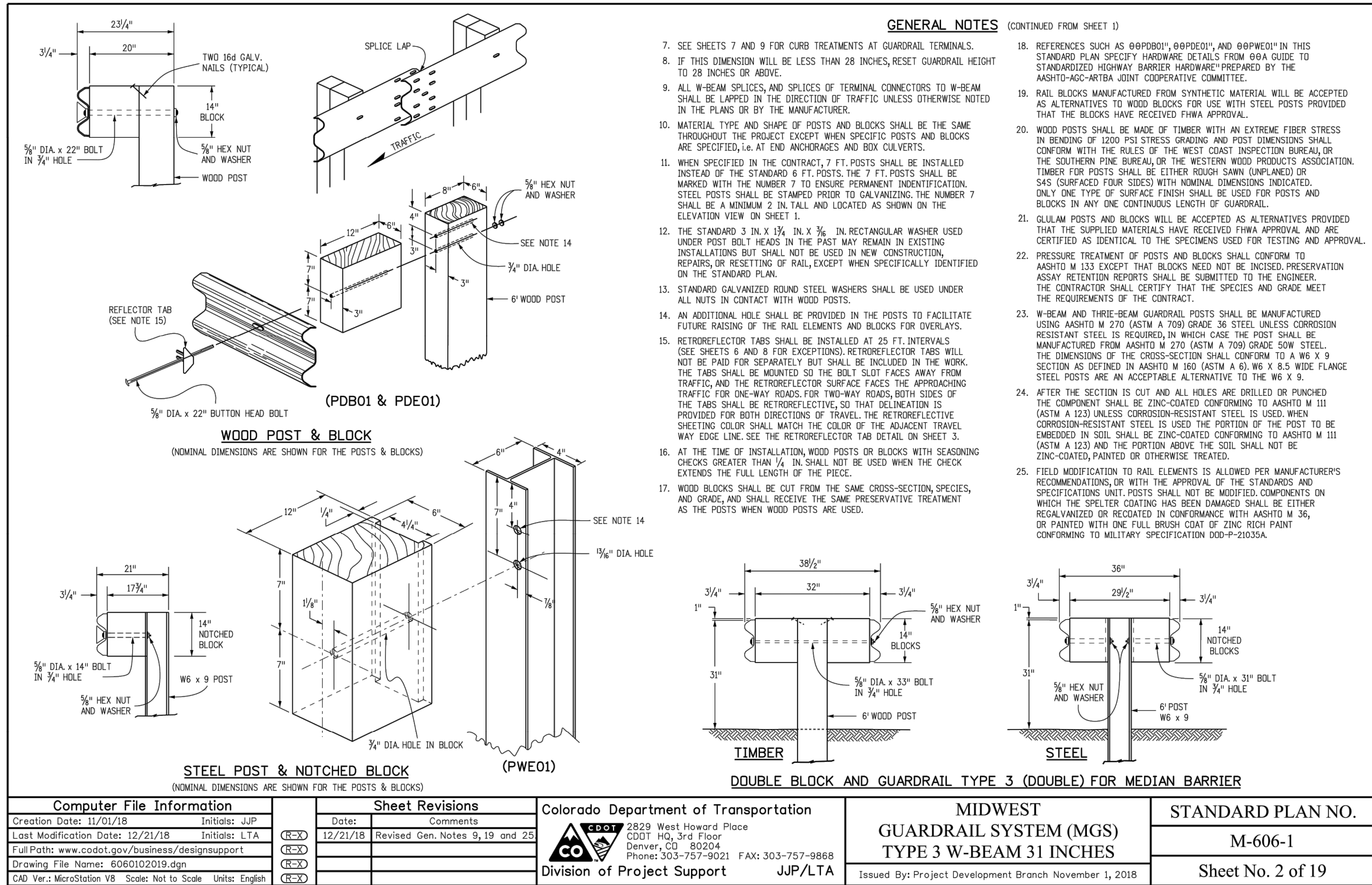
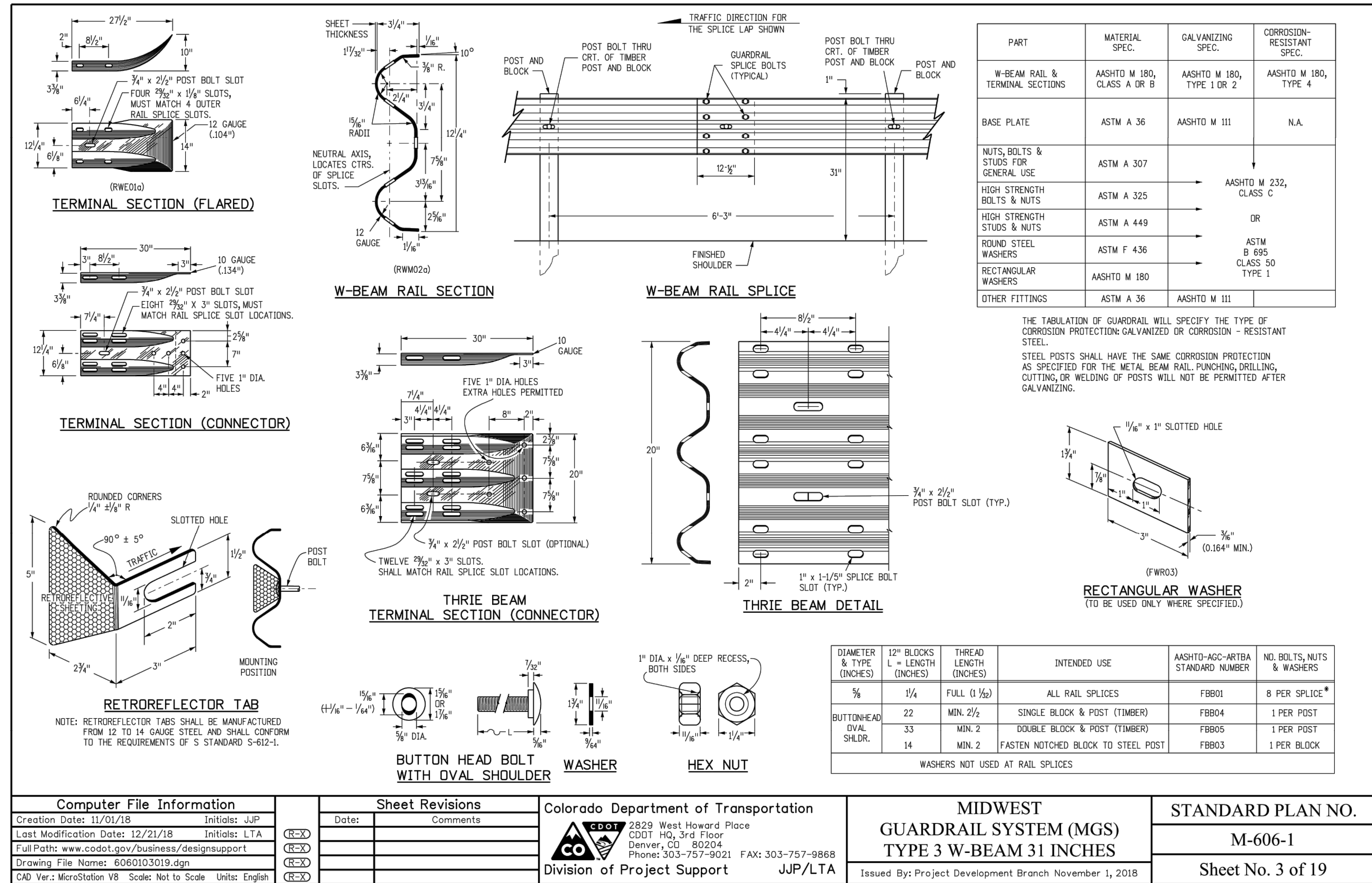
DESIGNED BY: KRK
 DRAWN BY: JRH
 CHECKED BY: KRK
 DATE: 9/3/2021

WINSOME FILING NO. 3
 EL PASO COUNTY, COLORADO
 CONSTRUCTION DOCUMENTS
 GUARDRAIL DETAILS

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PROJECT NO.
 196106001
 SHEET

STANDARD GUARDRAIL DETAILS



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GUARDRAIL DETAILS

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PROJECT NO.
196106001

SHEET

12

PCD FILE NO. CDR-21-012

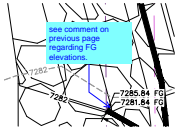
Kimley»Horn
2021 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: KRK
DRAWN BY: JRH
CHECKED BY: KRK
DATE: 9/3/2021

NO.	REVISION	DATE	BY	DATE	APPR.
1		1/21/22	KRK		

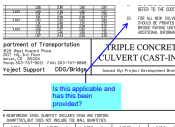
Culvert CDs_v2 redlines.pdf Markup Summary

dsdlaforce (6)



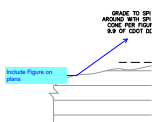
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Page Label: [6] 6 CULVERT 2-PLAN & PROFILE
Author: dsdlaforce
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see comment on previous page regarding FG elevations.



Subject: Callout
Page Label: [9] 9 CULVERT DETAILS
Author: dsdlaforce
Date: 2/14/2022 4:37:05 PM
Status:
Color: ■
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Is this applicable and has this been provided?



Subject: Callout
Page Label: [10] 10 CULVERT DETAILS
Author: dsdlaforce
Date: 2/14/2022 5:02:09 PM
Status:
Color: ■
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Include Figure on plans



Subject: Highlight
Page Label: [5] 5 CULVERT 1-PLAN & PROFILE
Author: dsdlaforce
Date: 2/8/2022 5:01:39 PM
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Subject: Highlight
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Author: dsdlaforce
Date: 2/8/2022 5:01:41 PM
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Subject: Callout
Page Label: [5] 5 CULVERT 1-PLAN & PROFILE
Author: dsdlaforce
Date: 2/8/2022 5:02:44 PM
Status:
Color: ■
Layer:
Space:

based on the contour it appears the wingwall needs to be extended.
Update all wingwall lengths.

Unresolved. Fix contours or extend retaining wall.
The space between the contour lines indicated near vertical finished ground.