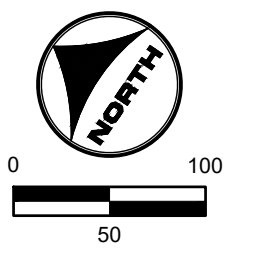


NOTES:

- BASIS OF BEARINGS: THE EAST LINE OF SECTION 21, BEING MONUMENTED AT THE SOUTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CAP STAMPED "PS INC PLS 30087 1996", BEING APPROPRIATELY MARKED, AND BEING MONUMENTED AT THE NORTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CAP STAMPED "PS INC PLS 30087 1996", BEING APPROPRIATELY MARKED, BEING ASSUMED TO BEAR NORTH 00 DEGREES 52 MINUTES 26 SECONDS WEST, A DISTANCE OF 5290.17 FEET. BENCHMARK: DESIGNATION = F 24 PID = JK0240 DESCRIPTION = DISK ON TOP OF CONCRETE MONUMENT CONTROL POINT COORDINATE SYSTEM: NAVD83 NORTHING: 1421049.80 EASTING: 3273631.55 ELEVATION: 6866.33
- EXISTING VEGETATION CONSISTS OF NATIVE GRASSES.
- CHANNEL A TO BE CONSTRUCTED WITH FILING 1 (AREA SOUTH OF CHANNEL A), CHANNEL B TO BE CONSTRUCTED WITH FILING 2 (AREA NORTH OF CHANNEL A AND SOUTHWEST OF CHANNEL B), BOX CULVERTS/ CROSSINGS ALONG CHANNEL B TO BE CONSTRUCTED WITH CHANNEL IMPROVEMENTS.



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DRAWN BY: TBI JOB DATE: 3/27/2023
 APPROVED: CMM JOB NUMBER: 201662.03
 CAD DATE: 3/27/2023
 CAD FILE: J:\2020\201662.03\CAD\dwgs\C\FINAL EROSION CONTROL

BAR IS ONE INCH ON OFFICIAL DRAWINGS.
 IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	REVISION DESCRIPTION

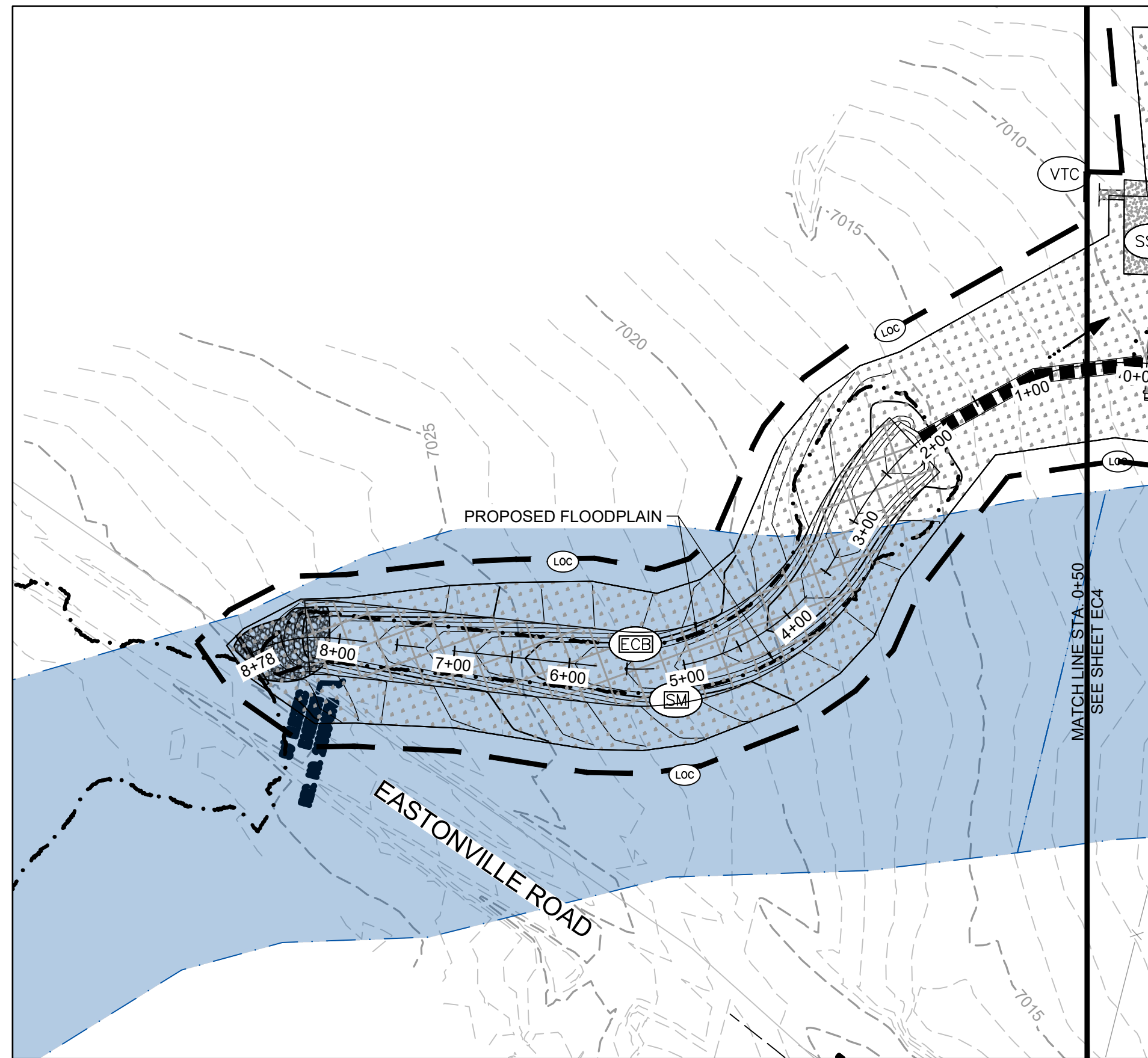
HRGreen HR GREEN - DENVER
 5619 DTC PARKWAY SUITE 1150
 DENVER CO 80111
 PHONE: 720.602.4999
 FAX: 844.273.1057

GRANDVIEW RESERVE (DRAINAGE A & B)
DR HORTON
 FALCON, COLORADO

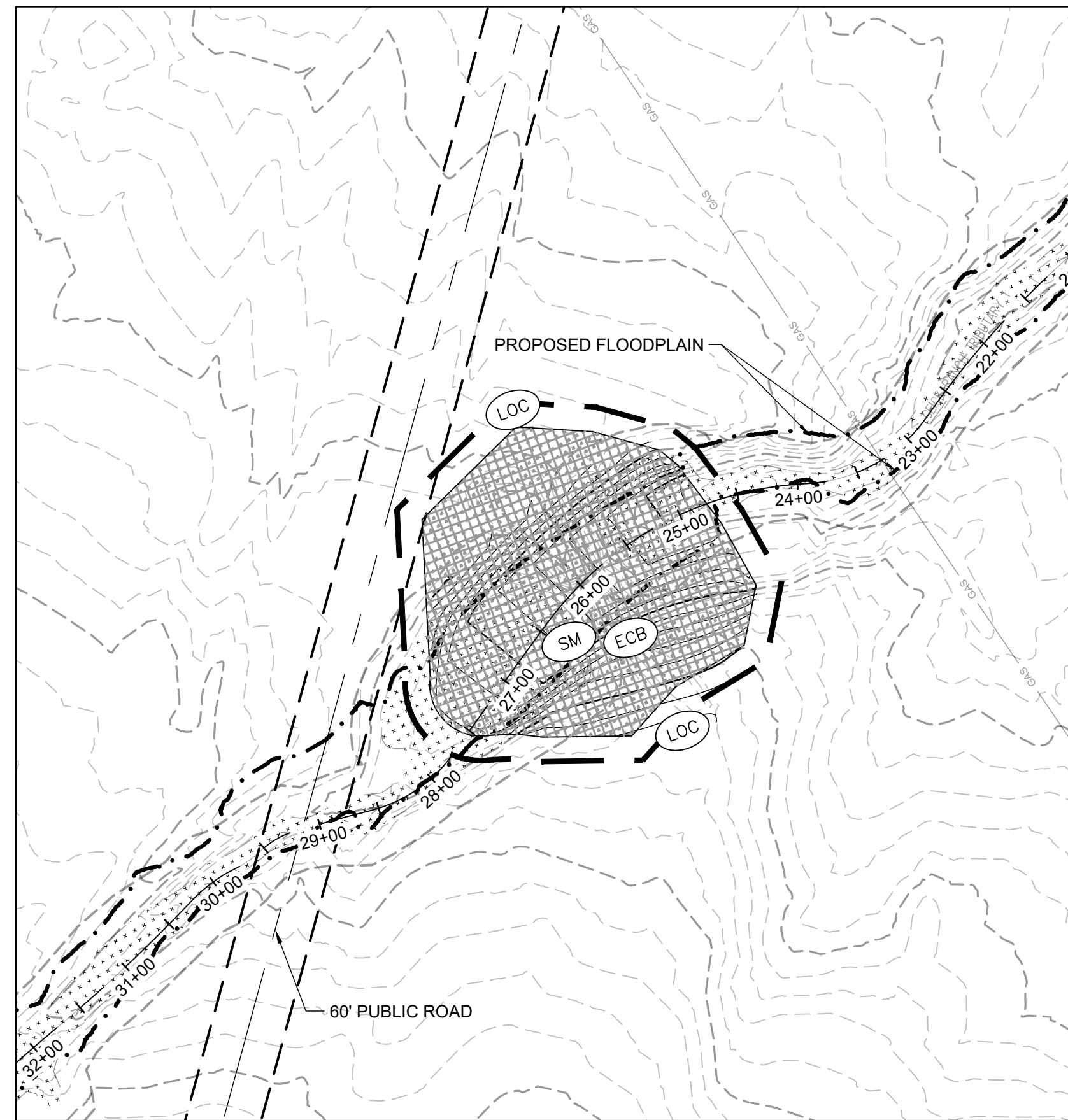
CONSTRUCTION DOCUMENTS
 FINAL EROSION CONTROL

SHEET
EC5
 23

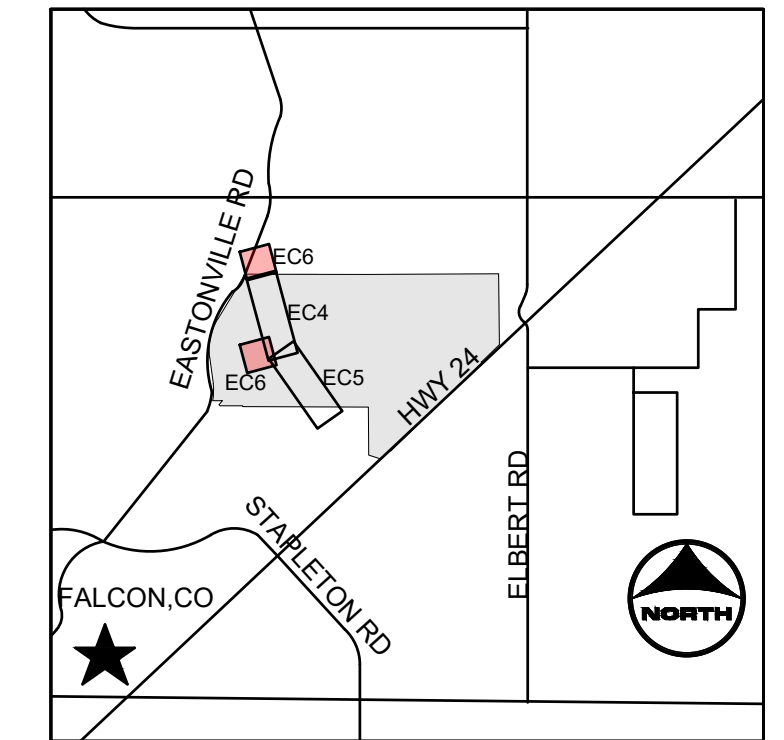
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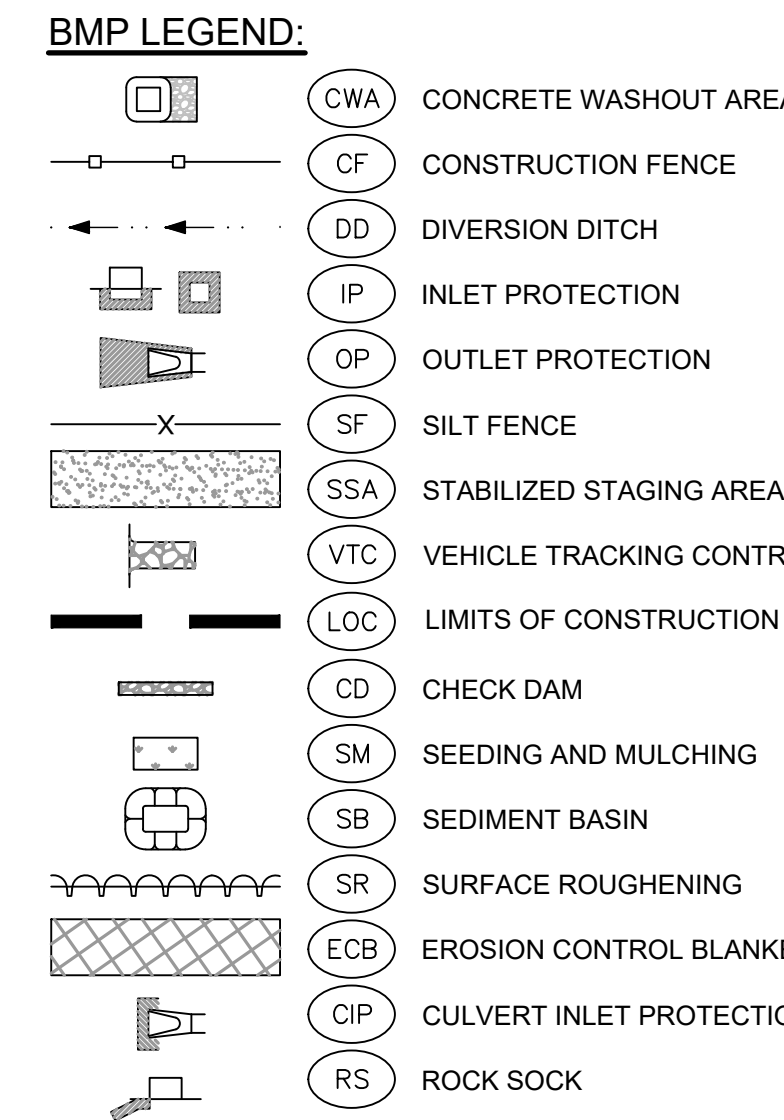
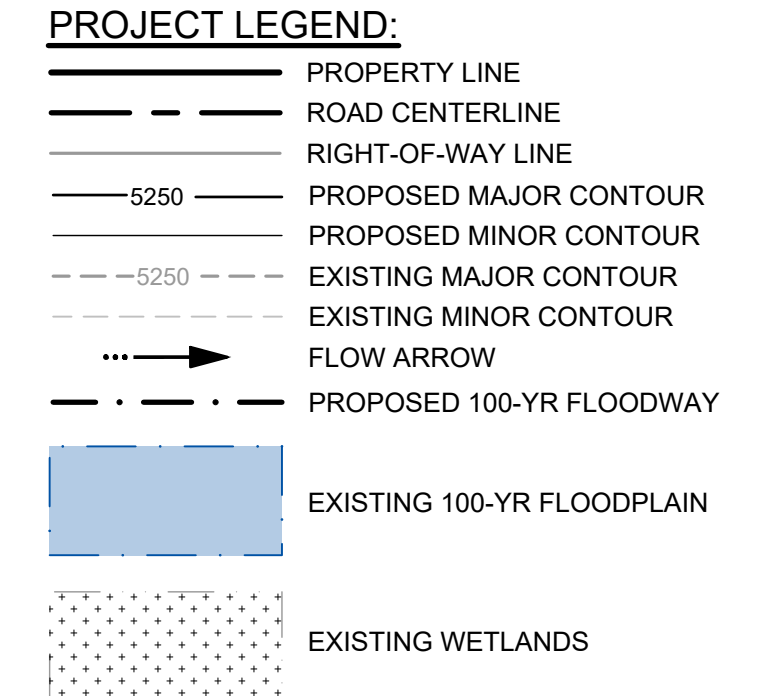
TRIBUTARY 2



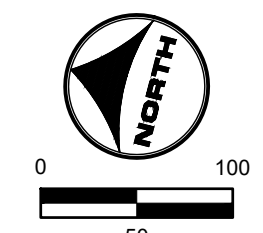
TRIBUTARY 1



KEYMAP



- NOTES:**
- BASIS OF BEARINGS:** THE EAST LINE OF SECTION 21, BEING MONUMENTED AT THE SOUTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CAP STAMPED "PS INC PLS 30087 1996", BEING APPROPRIATELY MARKED, AND BEING MONUMENTED AT THE NORTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CAP STAMPED "PS INC PLS 30087 1996", BEING APPROPRIATELY MARKED, BEING ASSUMED TO BEAR NORTH 00 DEGREES 52 MINUTES 26 SECONDS WEST, A DISTANCE OF 5290.17 FEET.
 - BENCHMARK:**
 DESIGNATION = F 24
 PID = JK0240
 DESCRIPTION = DISK ON TOP OF CONCRETE MONUMENT
 CONTROL POINT COORDINATE SYSTEM:
 NAVD83
 NORTHING: 1421049.80
 EASTING: 3273631.55
 ELEVATION: 6866.33
 - EXISTING VEGETATION CONSISTS OF NATIVE GRASSES.
 - CHANNEL A TO BE CONSTRUCTED WITH FILING 1 (AREA SOUTH OF CHANNEL A), CHANNEL B TO BE CONSTRUCTED WITH FILING 2 (AREA NORTH OF CHANNEL A AND SOUTHWEST OF CHANNEL B), BOX CULVERTS/ CROSSINGS ALONG CHANNEL B TO BE CONSTRUCTED WITH CHANNEL IMPROVEMENTS.



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HR GREEN \xref: xref: sgd: c-dm01: FINAL EROSION CONTROL KEY: 01-XC-FINAL-EC-01-XC-RIPRAP-HRG1.20X_EBases: 01-XC-PR-100YR_PP_DELINEATION

DRAWN BY: TBI	JOB DATE: 3/27/2023	BAR IS ONE INCH ON OFFICIAL DRAWINGS.
APPROVED: CMM	JOB NUMBER: 201662.03	0" = 1"
CAD DATE: 3/27/2023		IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
CAD FILE: J:\2020\201662.03\CAD\DWG\C\FINAL EROSION CONTROL		

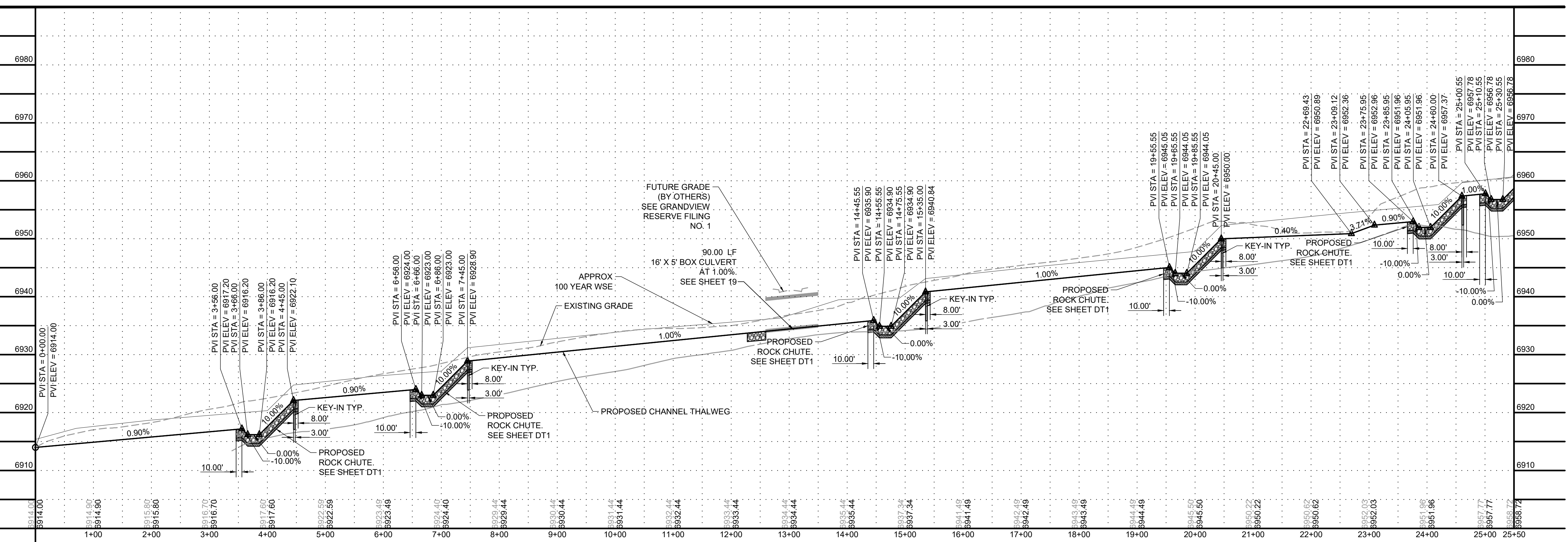
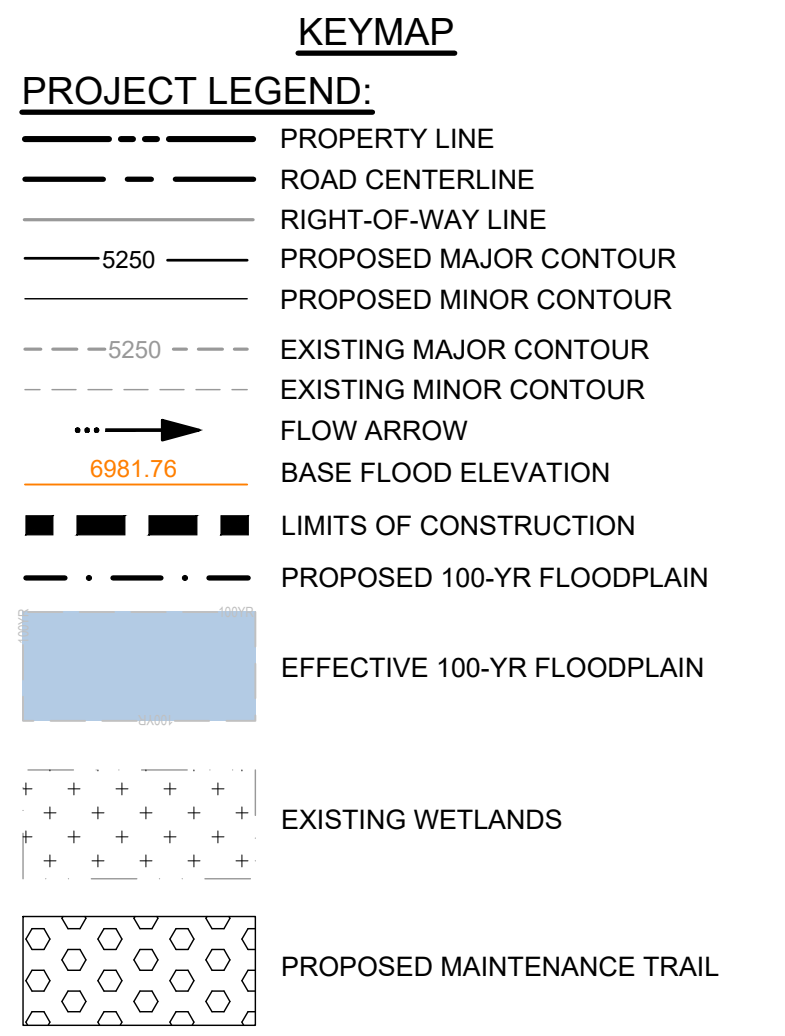
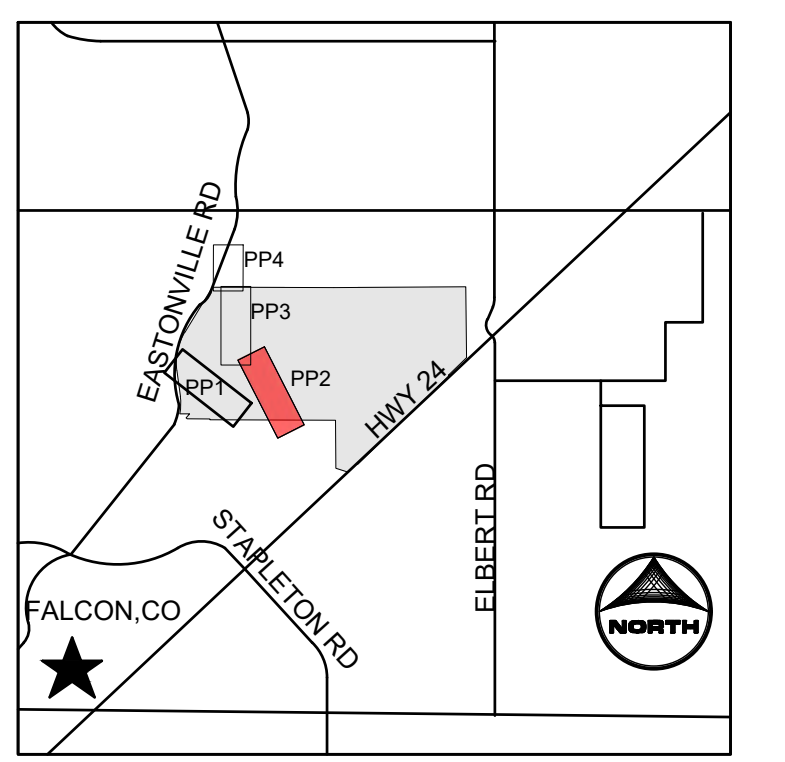
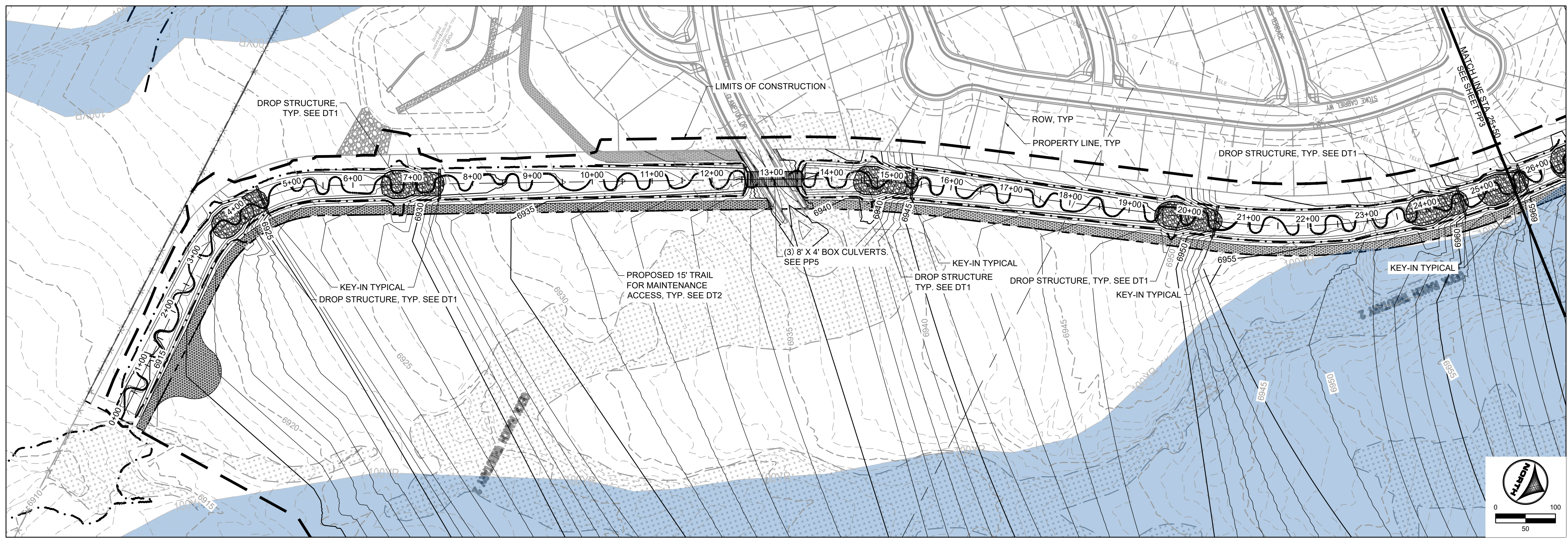
NO.	DATE	BY	REVISION DESCRIPTION

HRGreen
 HR GREEN - DENVER
 5619 DTC PARKWAY SUITE 1150
 DENVER CO 80111
 PHONE: 720.602.4999
 FAX: 844.273.1057

GRANDVIEW RESERVE (DRAINAGE A & B)
DR HORTON
 FALCON, COLORADO

CONSTRUCTION DOCUMENTS
 FINAL EROSION CONTROL

SHEET
EC6
 24



- NOTES:**
- BASIS OF BEARINGS:** THE EAST LINE OF SECTION 21, BEING MONUMENTED AT THE SOUTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CAP STAMPED "PS INC PLS 30087 1996", BEING APPROPRIATELY MARKED, AND BEING MONUMENTED AT THE NORTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CAP STAMPED "PS INC PLS 30087 1996", BEING APPROPRIATELY MARKED, BEING ASSUMED TO BEAR NORTH 00 DEGREES 52 MINUTES 26 SECONDS WEST, A DISTANCE OF 5290.17 FEET.
 - BENCHMARK:**
 DESIGNATION = F 24
 PID = JK0240
 DESCRIPTION = DISK ON TOP OF CONCRETE MONUMENT
 CONTROL POINT COORDINATE SYSTEM: NAVD88
 NORTHING: 1421049.80
 EASTING: 3273631.55
 ELEVATION: 6866.33
 - ALIGNMENT NOT FOR USE IN CONSTRUCTION. REFER TO NORTHINGS AND EASTINGS
 - PLAN SET APPROVAL APPLIES TO THE LIMITS OF CONSTRUCTION. PLEASE SEE GRANDVIEW FILING NUMBER 1 PLAN SET FOR GRADING OUTSIDE OF THE CHANNEL LIMITS OF CONSTRUCTION.
 - CHANNEL A TO BE CONSTRUCTED WITH FILING A (AREA SOUTH OF CHANNEL A), CHANNEL B TO BE CONSTRUCTED WITH FILING 2 (AREA NORTH OF CHANNEL A AND SOUTHWEST OF CHANNEL B), BOX CULVERTS/ CROSSINGS ALONG CHANNEL B TO BE CONSTRUCTED WITH CHANNEL IMPROVEMENTS.

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FLORIDA LICENSED PROFESSIONAL ENGINEER
 37081
 [Signature]

DRAWN BY: TBI JOB DATE: 3/22/2023
 APPROVED: CMM JOB NUMBER: 201662.03
 CAD DATE: 3/27/2023
 CAD FILE: J:\2020\201662.03\CAD\dwgs\C\PLAN AND PROFILE

BAR IS ONE INCH ON OFFICIAL DRAWINGS.
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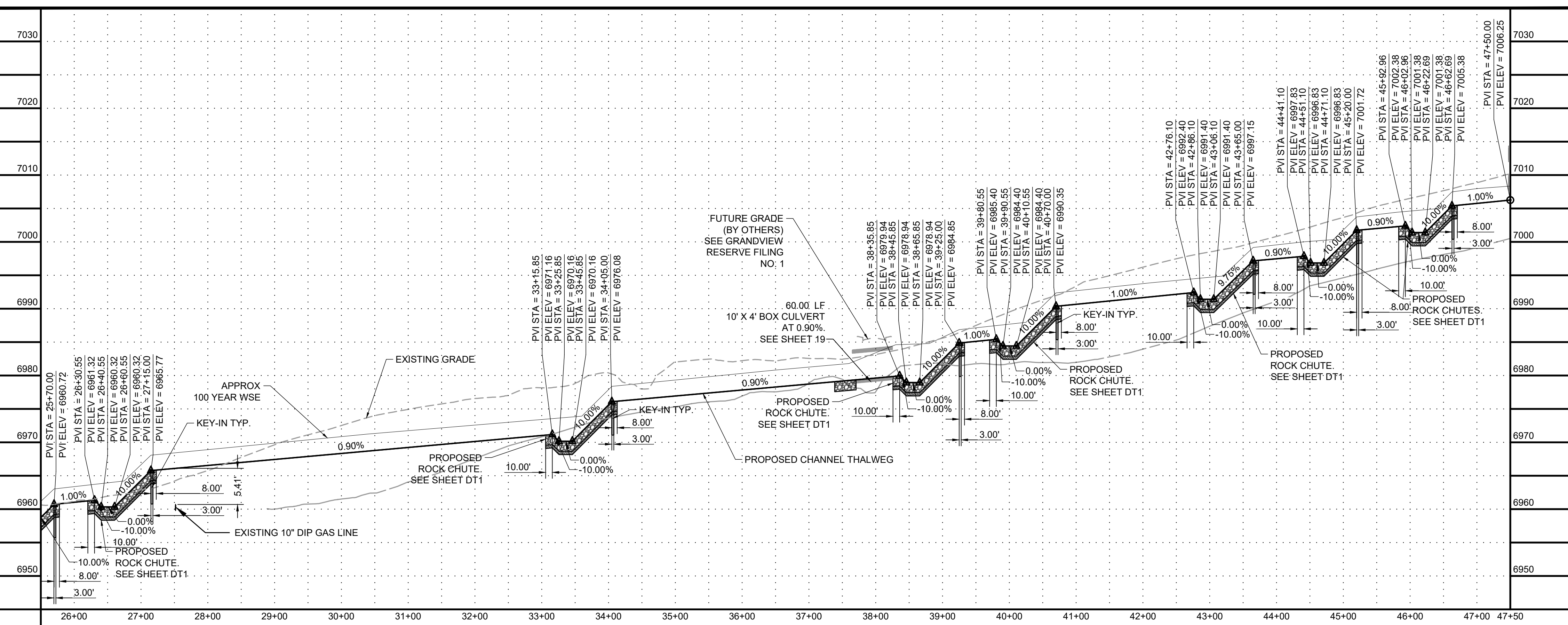
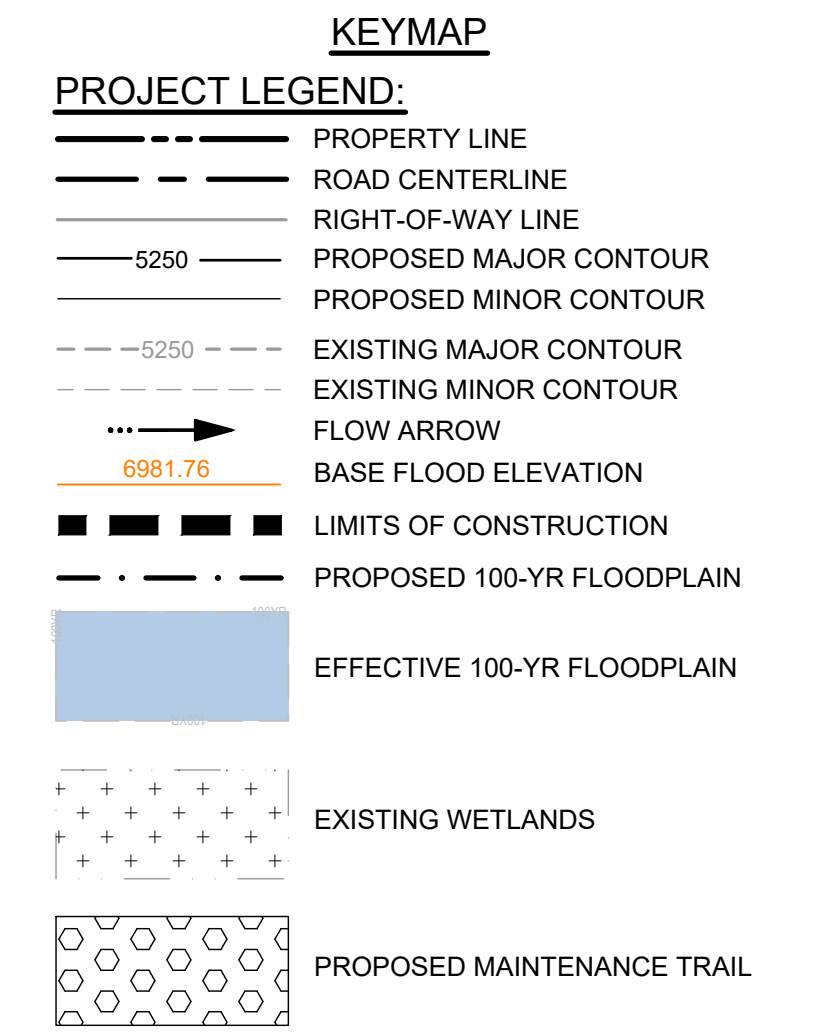
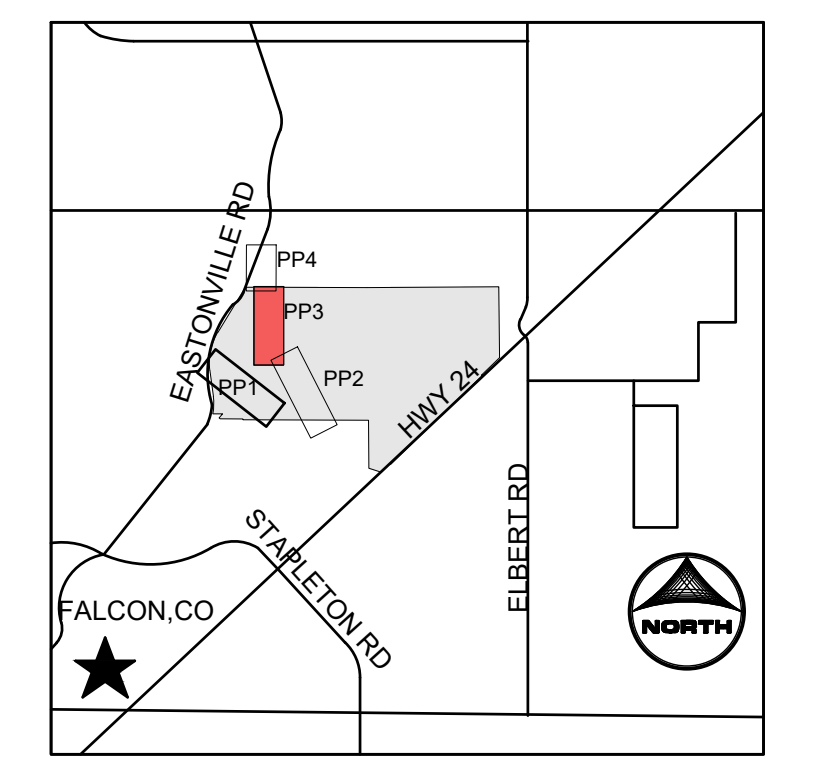
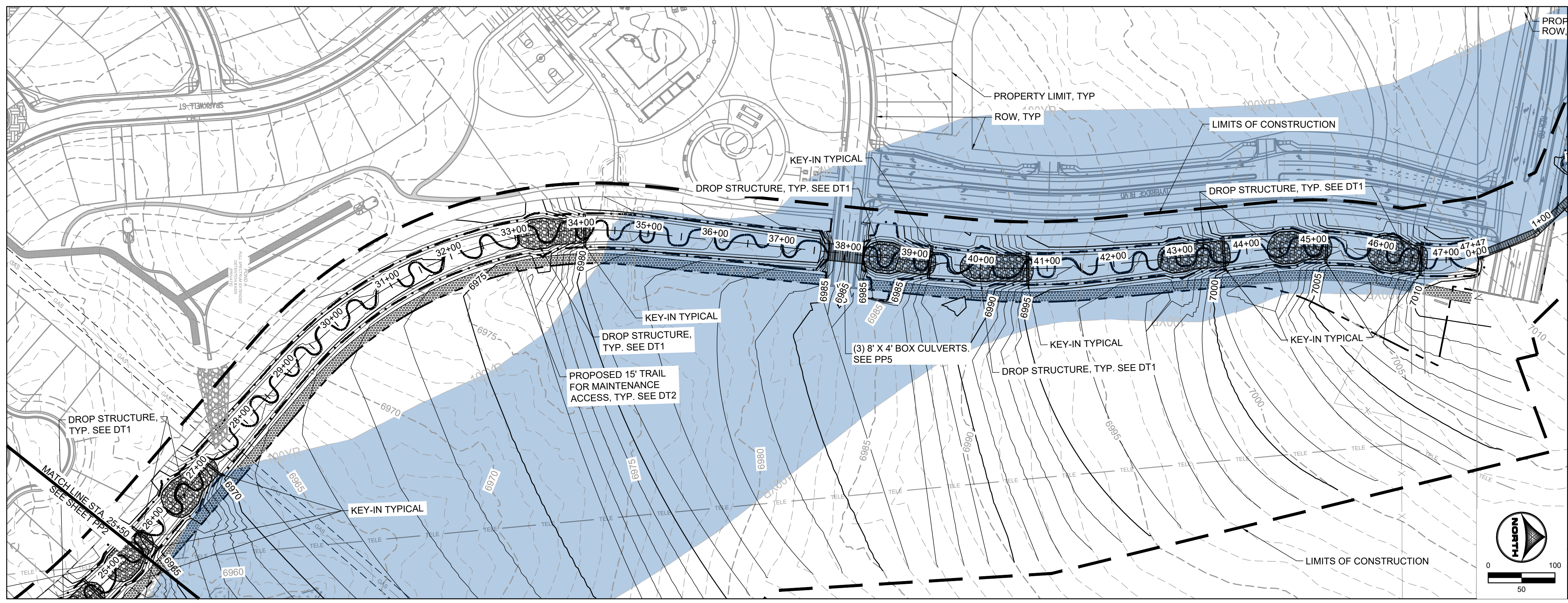
NO.	DATE	BY	REVISION DESCRIPTION

HRGreen
 HR GREEN - DENVER
 5619 DTC PARKWAY SUITE 1150
 DENVER CO 80111
 PHONE: 720.602.4999
 FAX: 844.273.1057

GRANDVIEW RESERVE (DRAINAGE A & B)
DR HORTON
 FALCON, COLORADO

CONSTRUCTION DOCUMENTS
 DRAINAGE TRIBUTARY 2 PLAN AND PROFILE

SHEET
 PP2
 26



- NOTES:**
- BASIS OF BEARINGS:** THE EAST LINE OF SECTION 21, BEING MONUMENTED AT THE SOUTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CAP STAMPED "PS INC PLS 30087 1996", BEING APPROPRIATELY MARKED, AND BEING MONUMENTED AT THE NORTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CAP STAMPED "PS INC PLS 30087 1996", BEING APPROPRIATELY MARKED, BEING ASSUMED TO BEAR NORTH 00 DEGREES 52 MINUTES 26 SECONDS WEST, A DISTANCE OF 5290.17 FEET. BENCHMARK:
 - BENCHMARK:**
 DESIGNATION = F 24
 PID = JK0240
 DESCRIPTION = DISK ON TOP OF CONCRETE MONUMENT
 CONTROL POINT COORDINATE SYSTEM: NAVD88
 NORTHING: 1421049.80
 EASTING: 3273631.55
 ELEVATION: 6866.33
 - ALIGNMENT NOT FOR USE IN CONSTRUCTION. REFER TO NORTHINGS AND EASTINGS
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FLORIDA LICENSED PROFESSIONAL ENGINEER
 GREGORY L. PAVES
 37081

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 APPROVED: CMM JOB NUMBER: 201662.03
 CAD DATE: 3/27/2023
 CAD FILE: J:\2020\201662.03\CAD\DWG\CIP\PLAN AND PROFILE

BAR IS ONE INCH ON OFFICIAL DRAWINGS.
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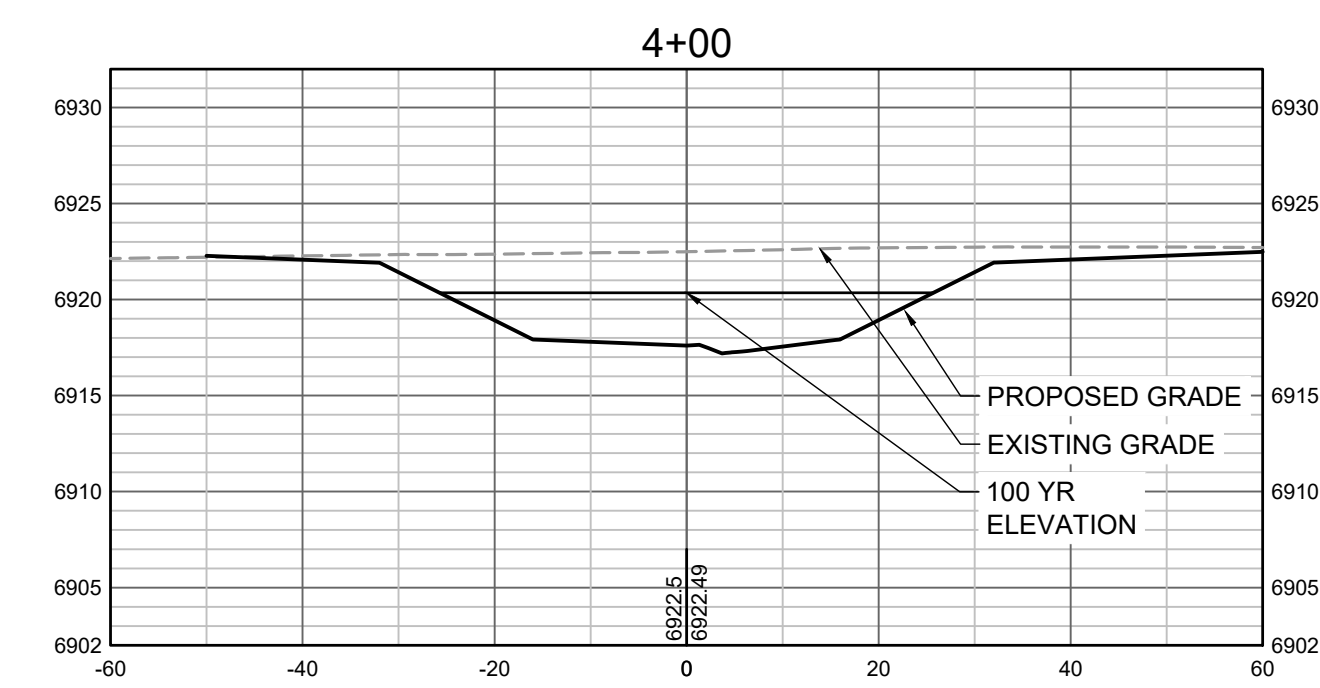
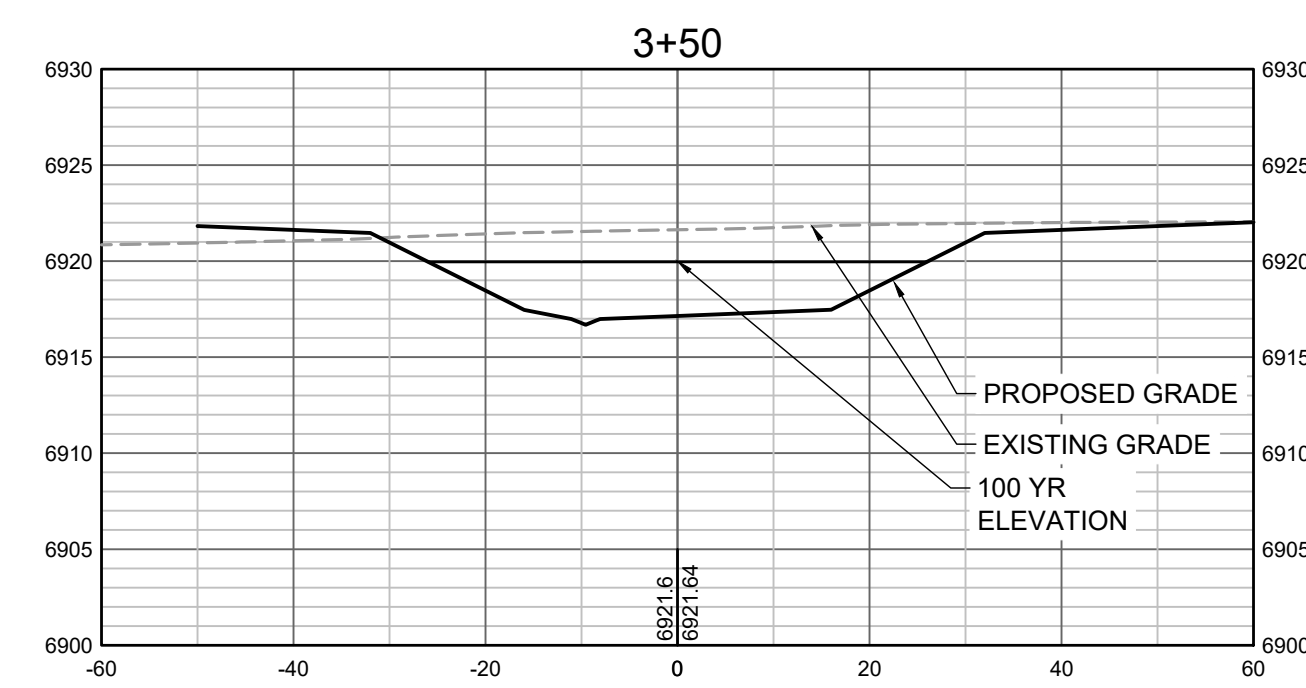
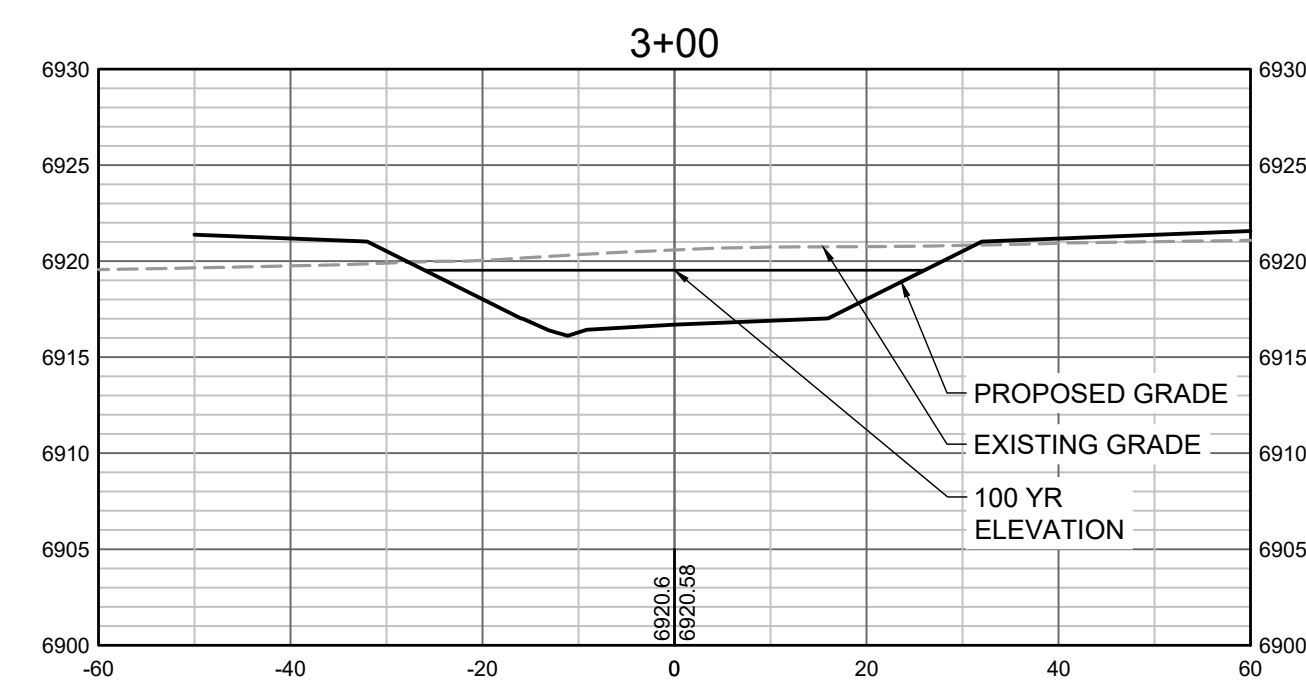
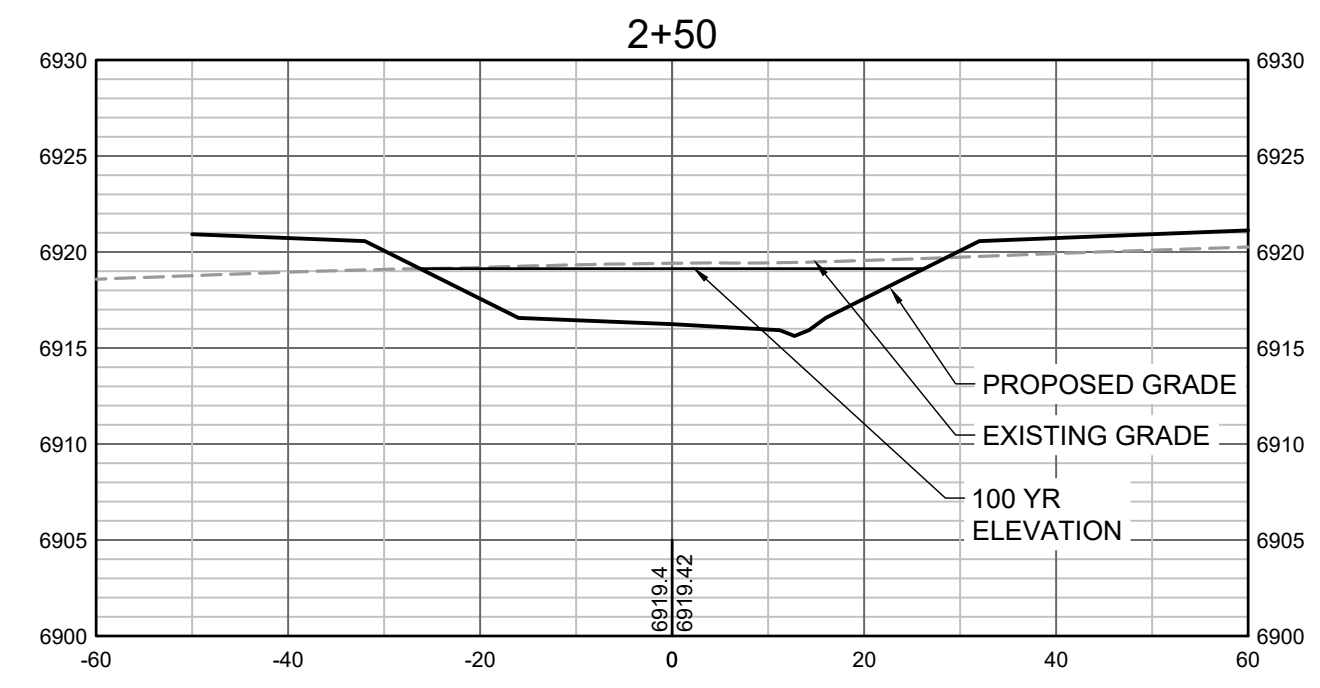
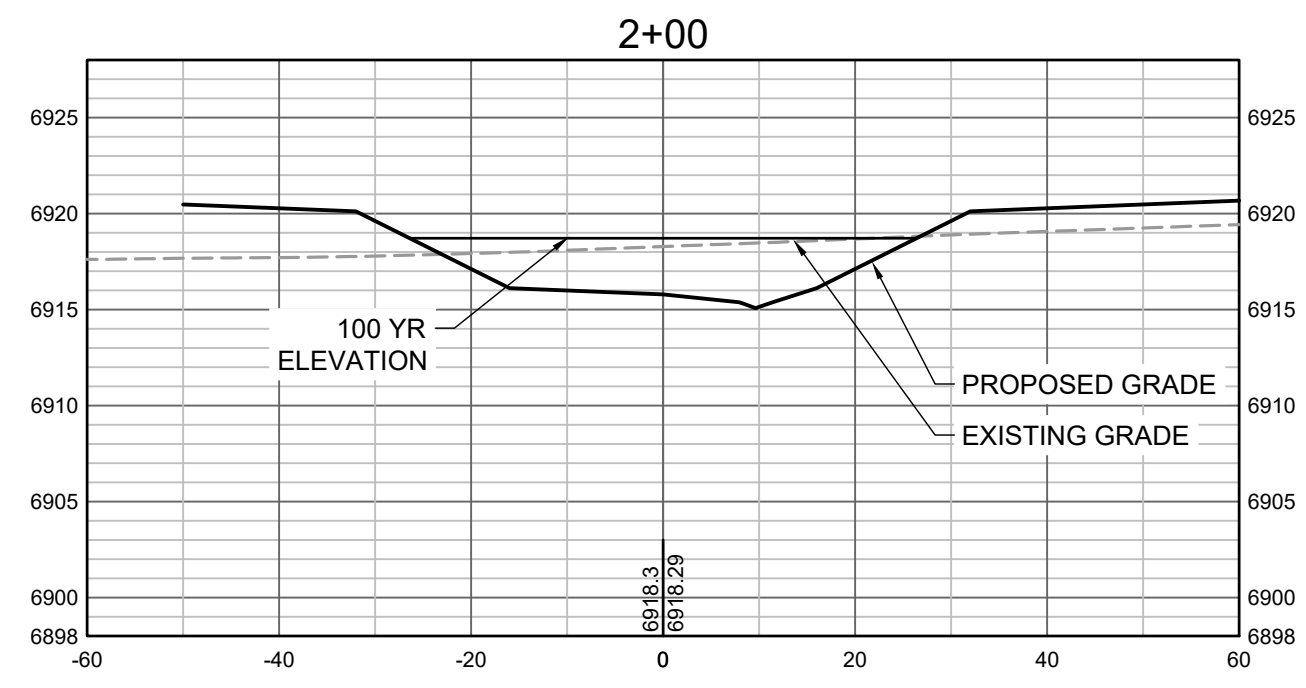
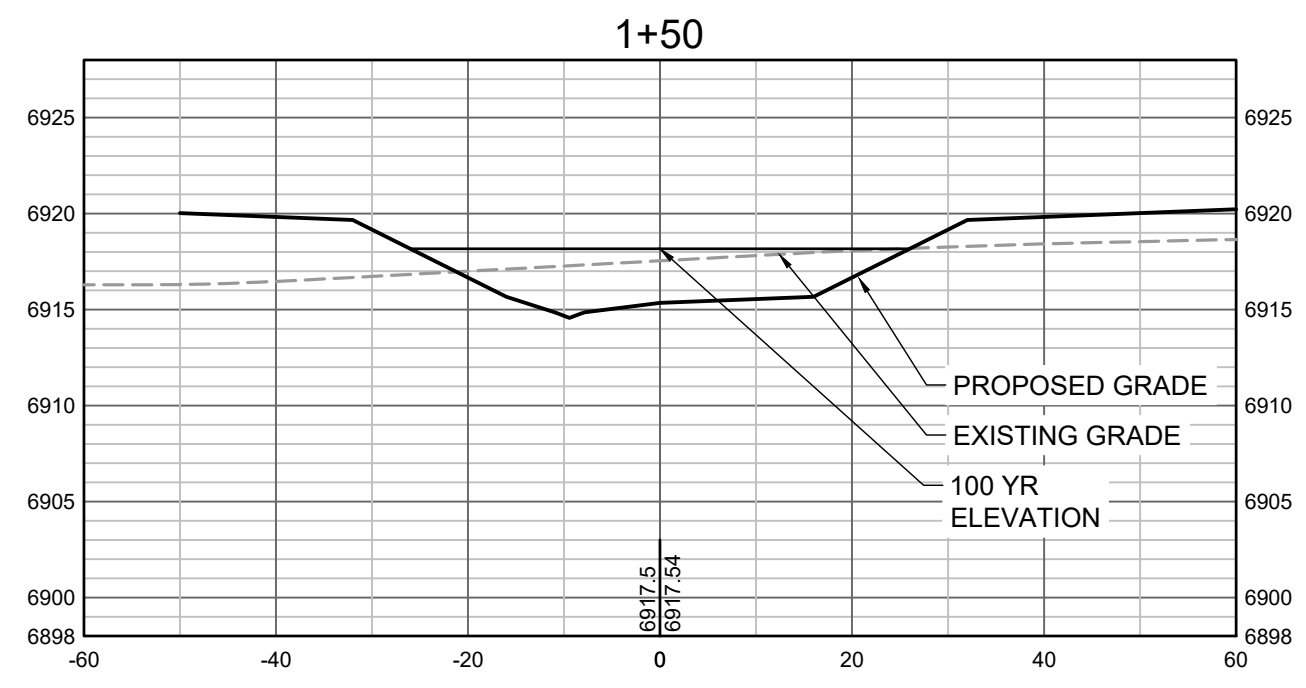
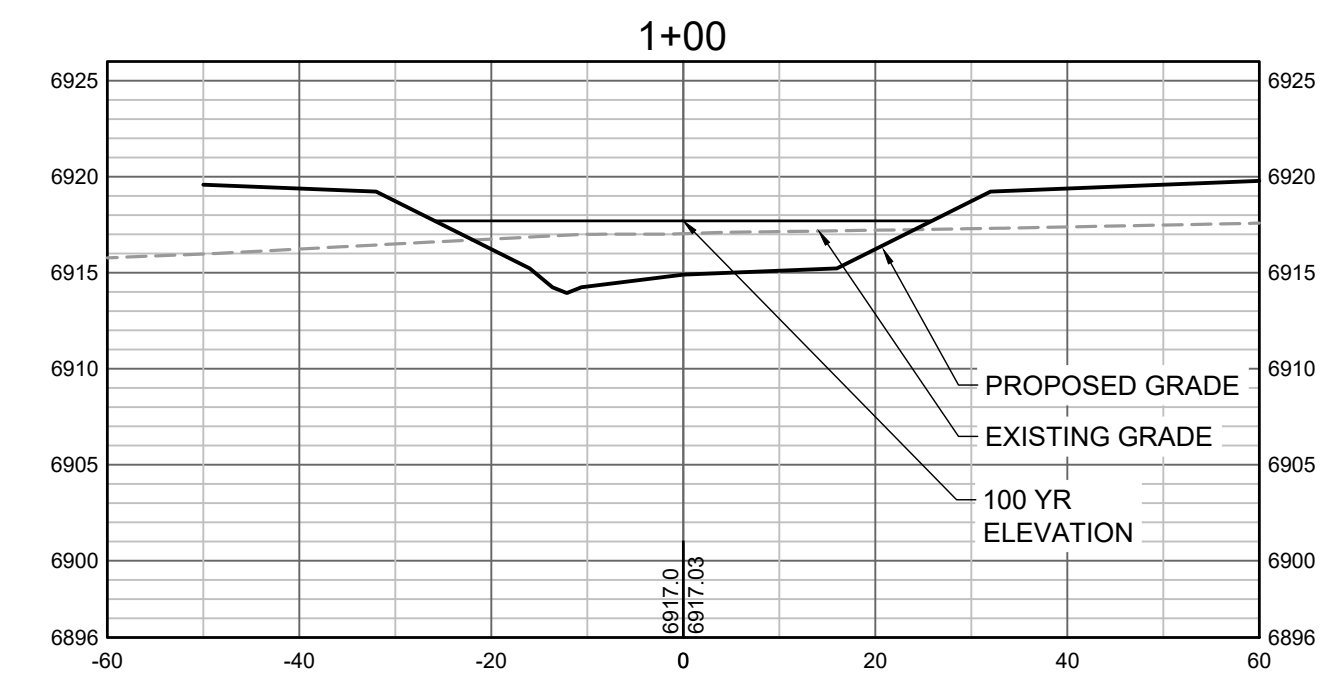
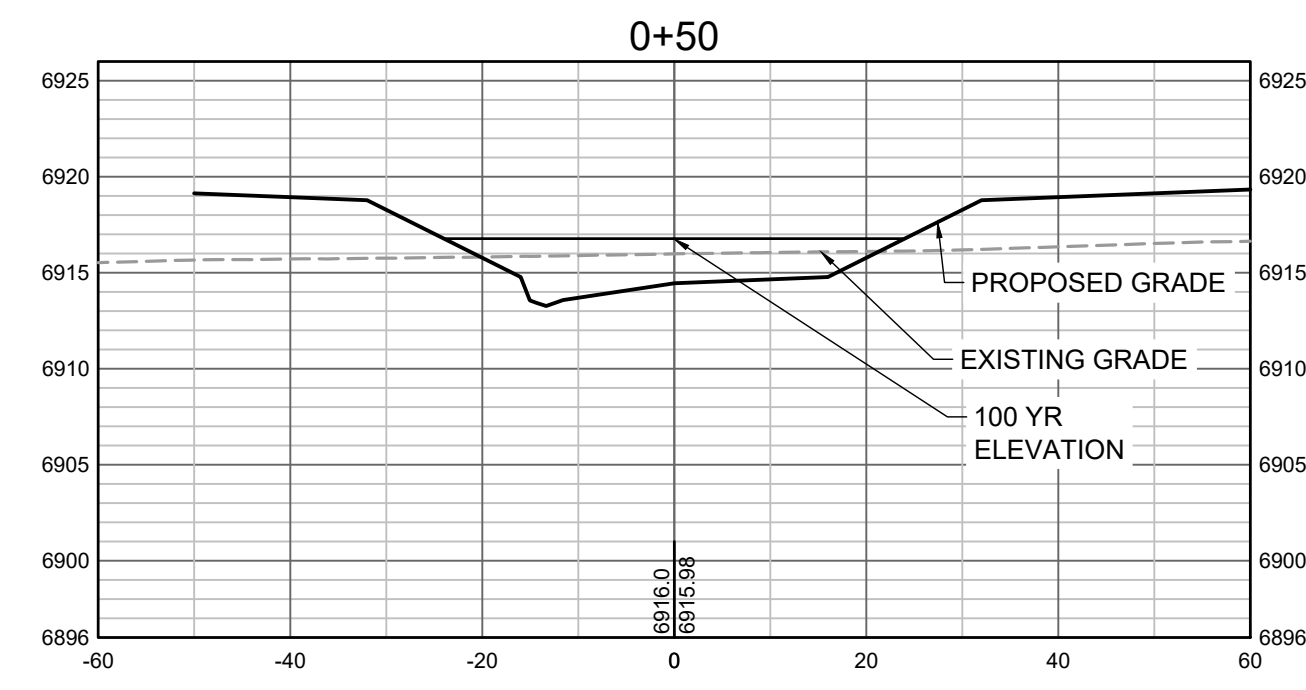
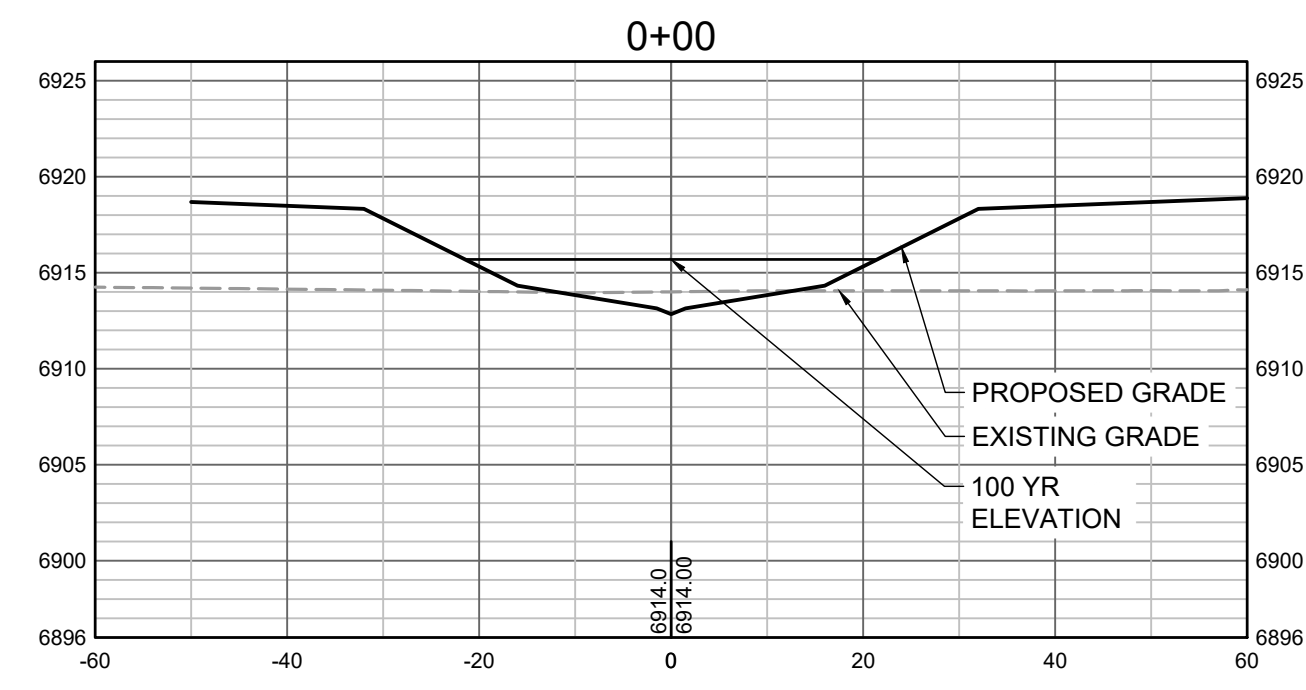
NO.	DATE	BY	REVISION DESCRIPTION

HRGreen
 HR GREEN - DENVER
 5619 DTC PARKWAY SUITE 1150
 DENVER CO 80111
 PHONE: 720.602.4999
 FAX: 844.273.1057

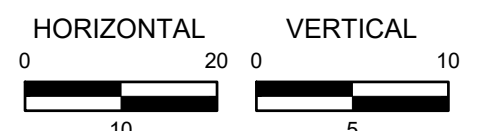
GRANDVIEW RESERVE (DRAINAGE A & B)
DR HORTON
 FALCON, COLORADO

CONSTRUCTION DOCUMENTS
 DRAINAGE TRIBUTARY 2 PLAN AND PROFILE

SHEET
PP3
 27



PROPOSED GRADES TO TIE INTO GRANDVIEW RESERVE FILING 1. REFER TO THE GRANDVIEW RESERVE FILING 1 PLAN SET FOR CONTINUATION OF GRADING THAT IS BEING TIED INTO OUTSIDE OF CHANNEL GRADING LIMITS.



HR GREEN Xrefs: xgs-1-dh01

DRAWN BY: TBI JOB DATE: 3/22/2023
 APPROVED: CMM JOB NUMBER: 201662.03
 CAD DATE: 3/27/2023
 CAD FILE: J:\2020\201662.03\CAD\DWG\C\CROSS SECTIONS

BAR IS ONE INCH ON OFFICIAL DRAWINGS.
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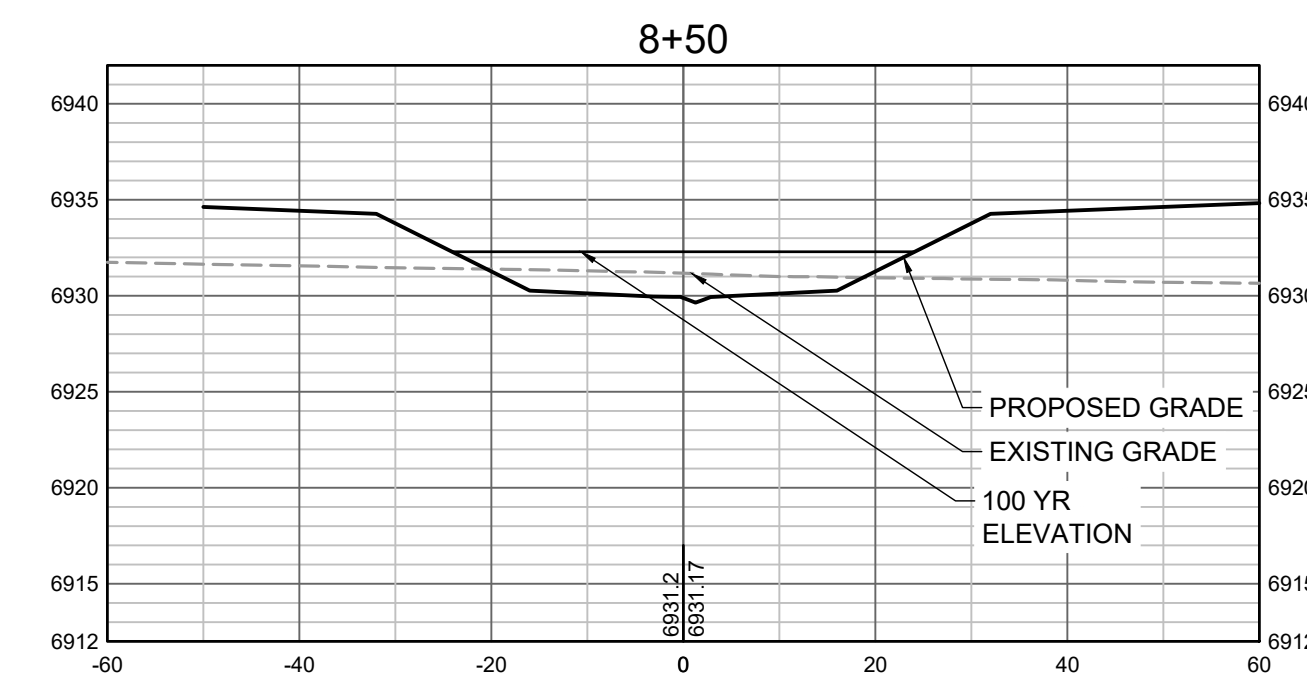
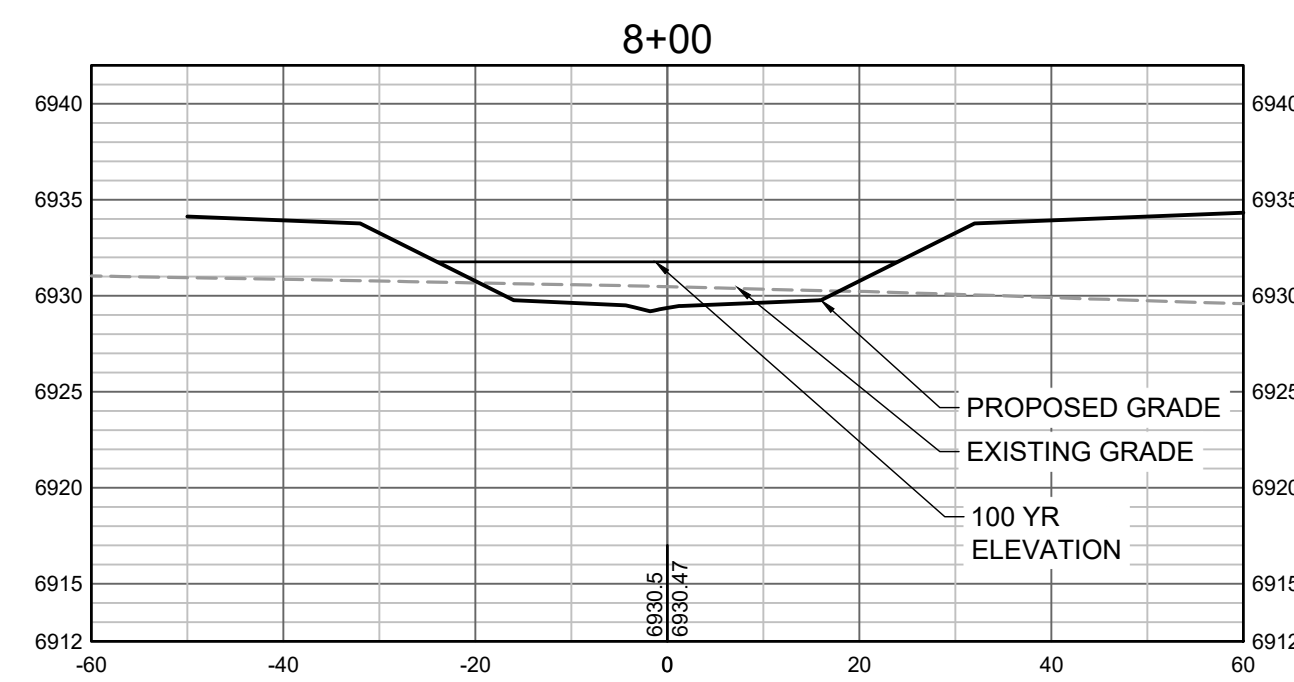
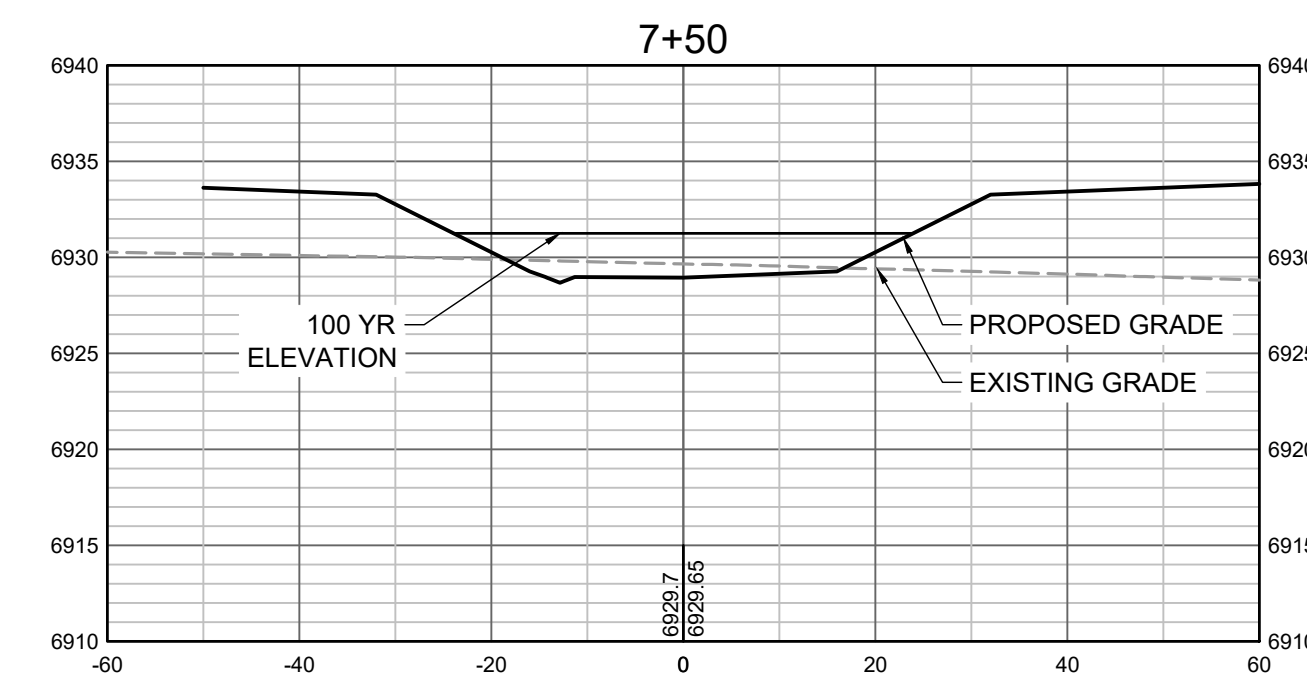
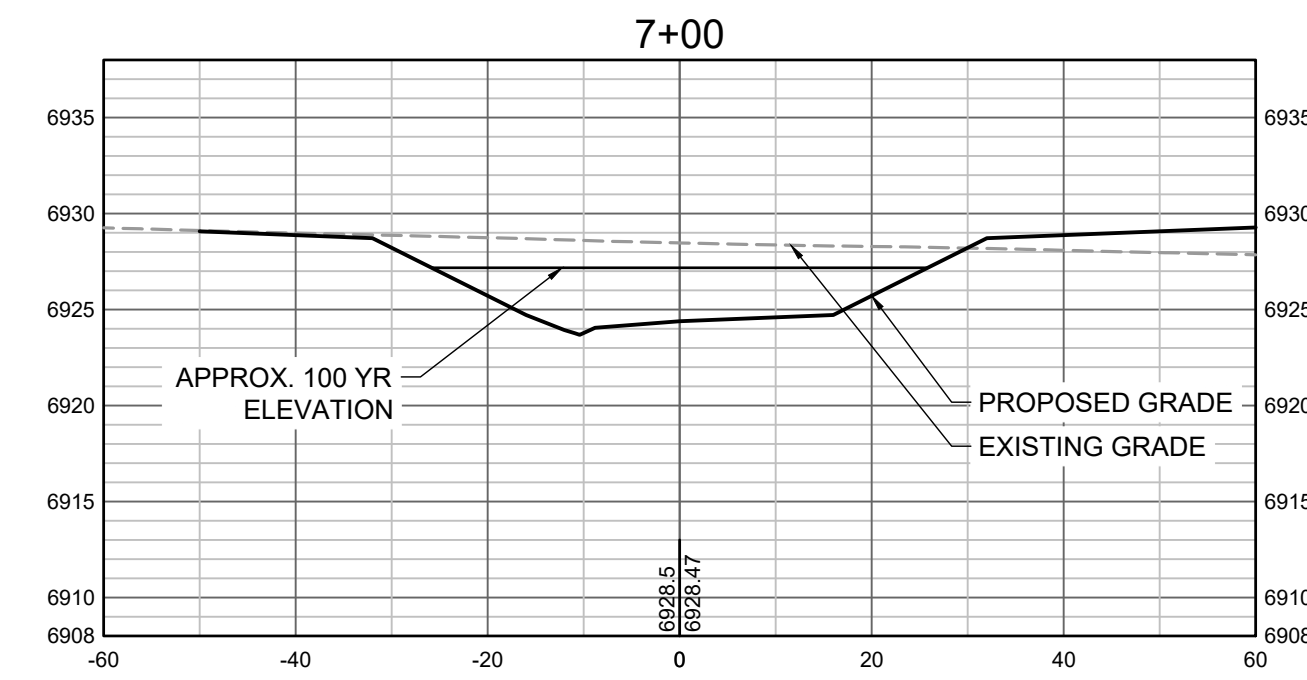
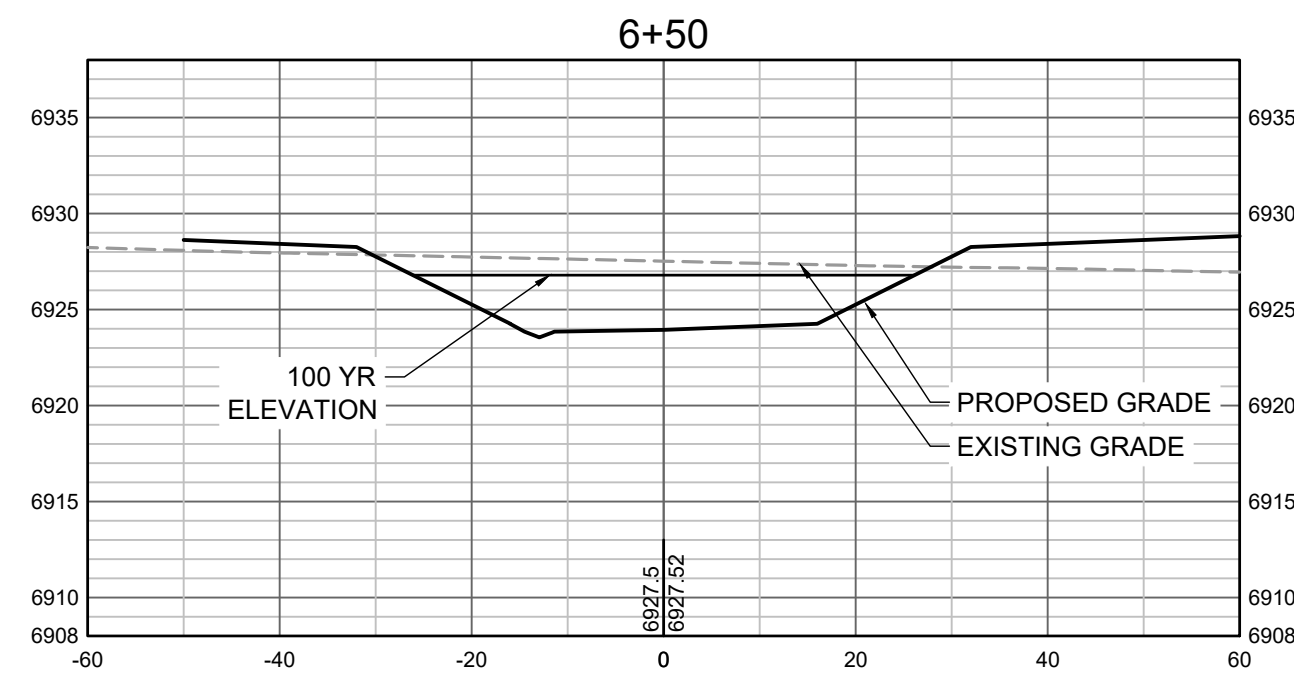
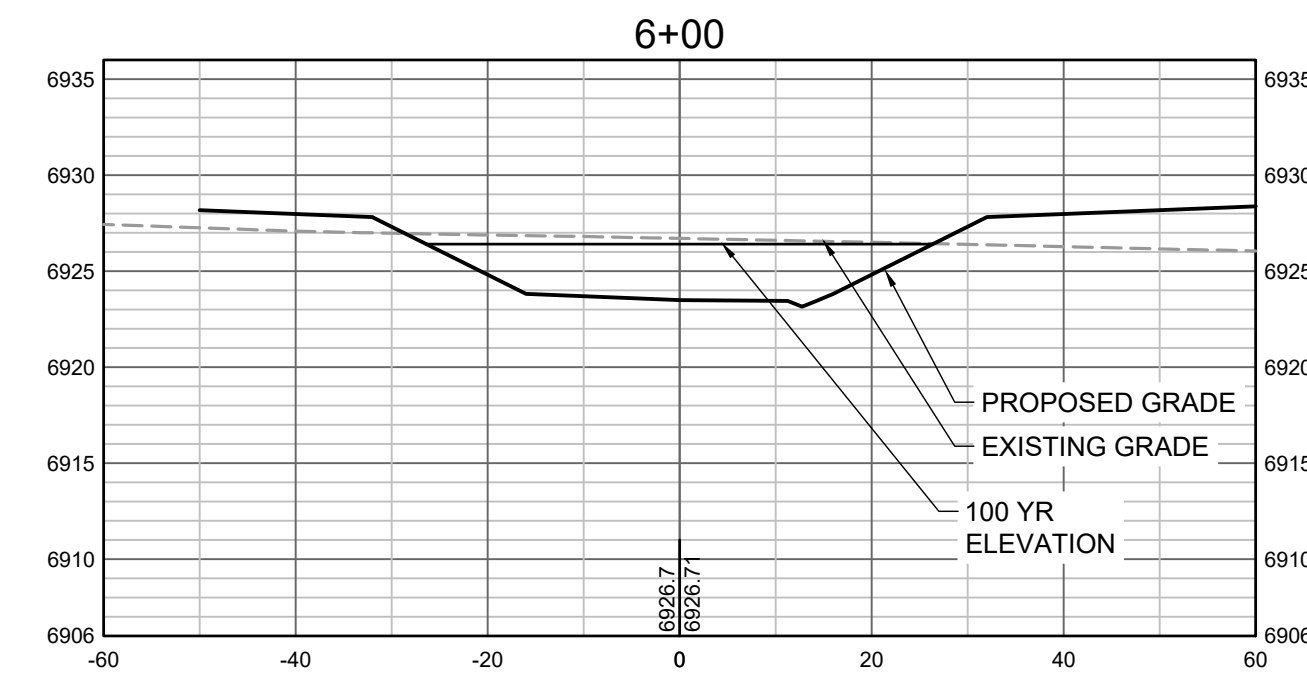
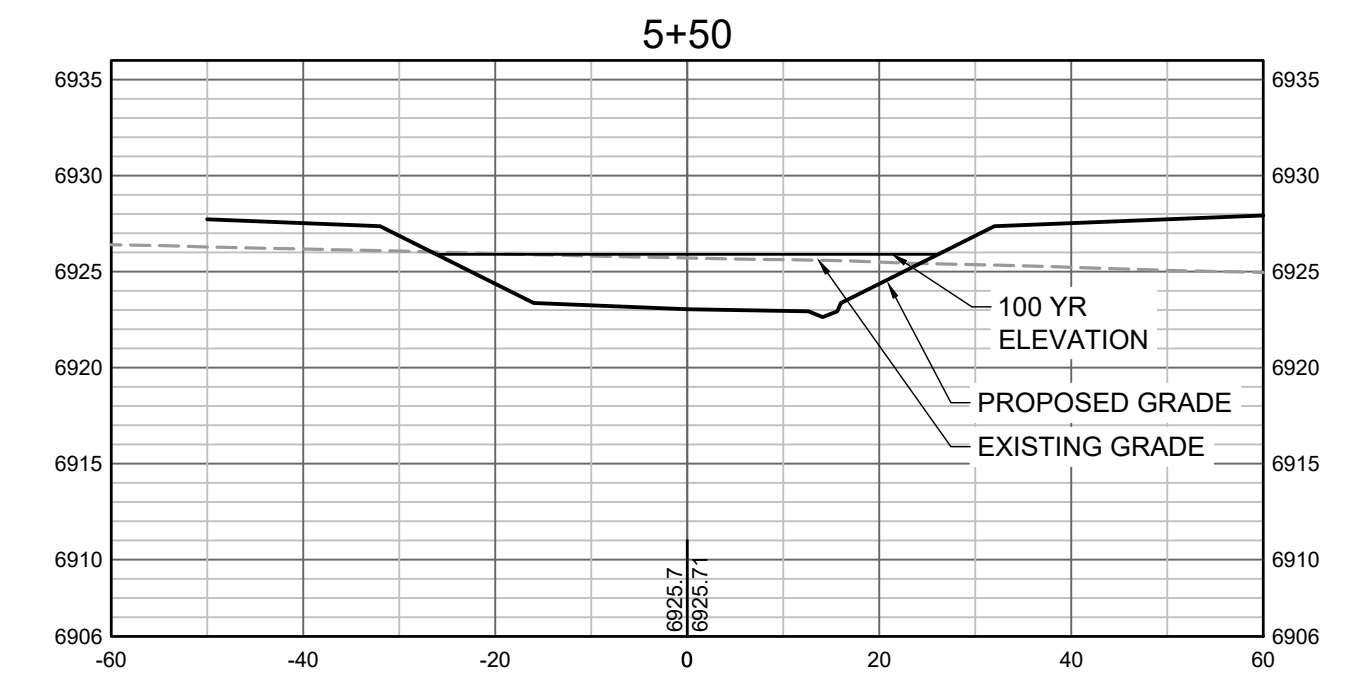
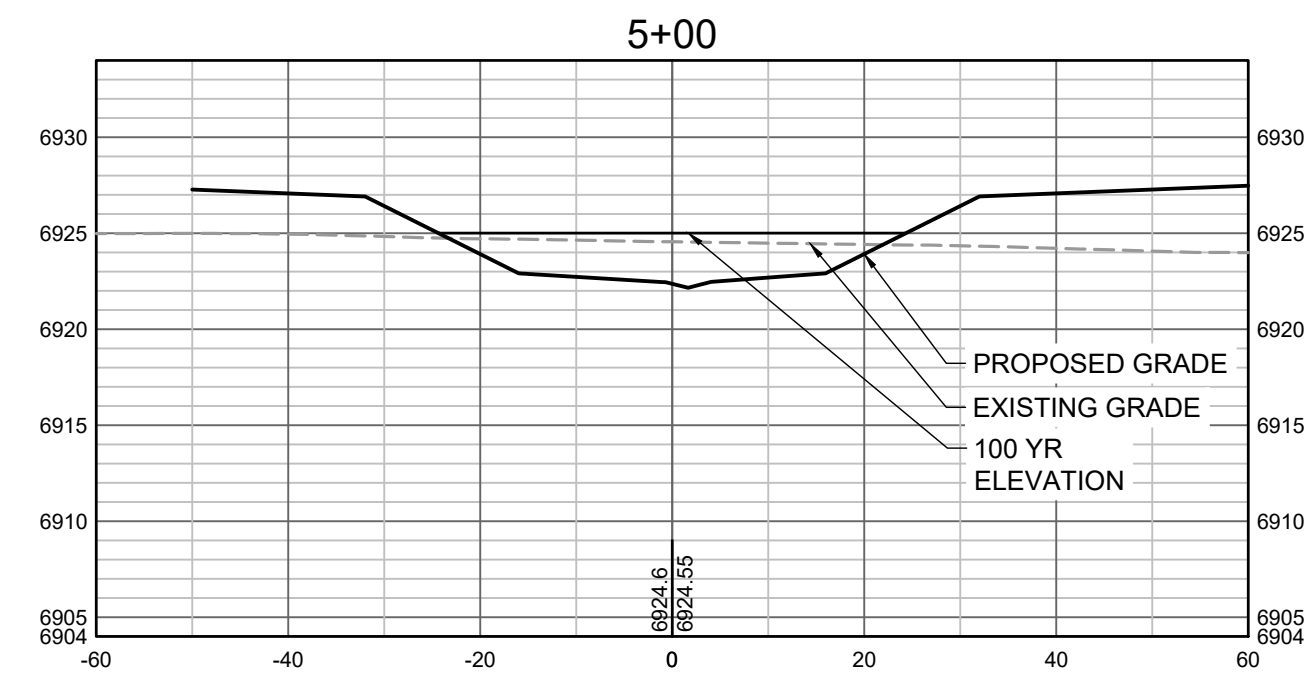
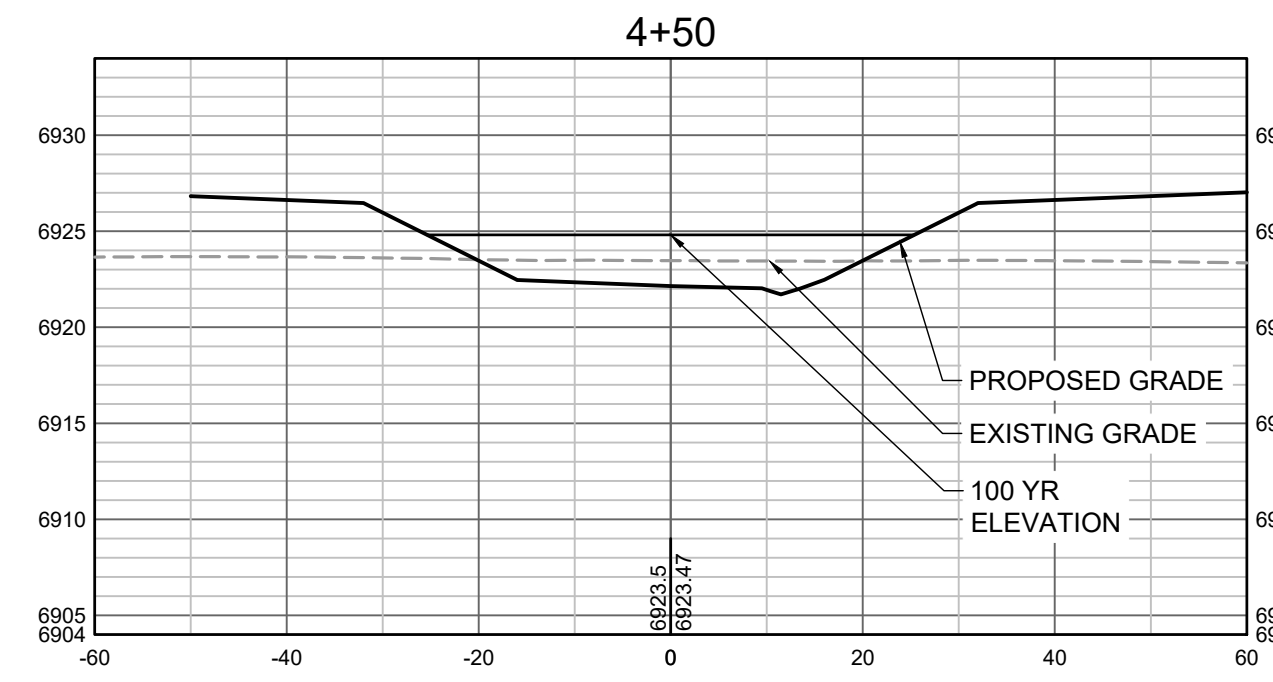
NO.	DATE	BY	REVISION DESCRIPTION

HRGreen
 HR GREEN - DENVER
 5619 DTC PARKWAY SUITE 1150
 DENVER CO 80111
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 FAX: 844.273.1057

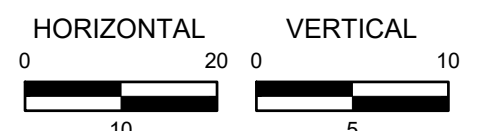
GRANDVIEW RESERVE (DRAINAGE A & B)
DR HORTON
 FALCON, COLORADO

CONSTRUCTION DOCUMENTS
 TRIBUTARY 2 CROSS SECTIONS

SHEET
CS1
 31



PROPOSED GRADES TO TIE INTO GRANDVIEW RESERVE FILING 1. REFER TO THE GRANDVIEW RESERVE FILING 1 PLAN SET FOR CONTINUATION OF GRADING THAT IS BEING TIED INTO OUTSIDE OF CHANNEL GRADING LIMITS.



HR GREEN Xrefs: xgs-1-dh01

DRAWN BY: TBI JOB DATE: 3/22/2023 BAR IS ONE INCH ON OFFICIAL DRAWINGS.
 APPROVED: CMM JOB NUMBER: 201662.03 0" = 1"
 CAD DATE: 3/27/2023 IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
 CAD FILE: J:\2020\201662.03\CAD\DWG\C\CROSS SECTIONS

NO.	DATE	BY	REVISION DESCRIPTION



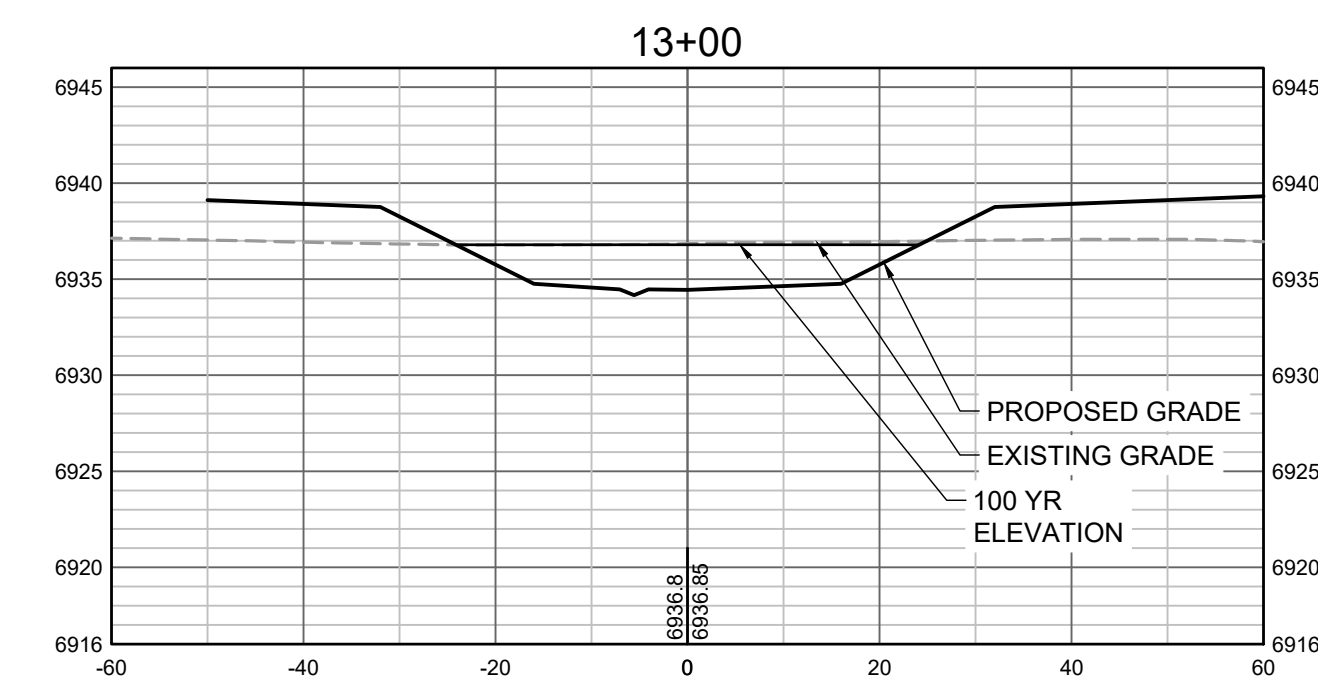
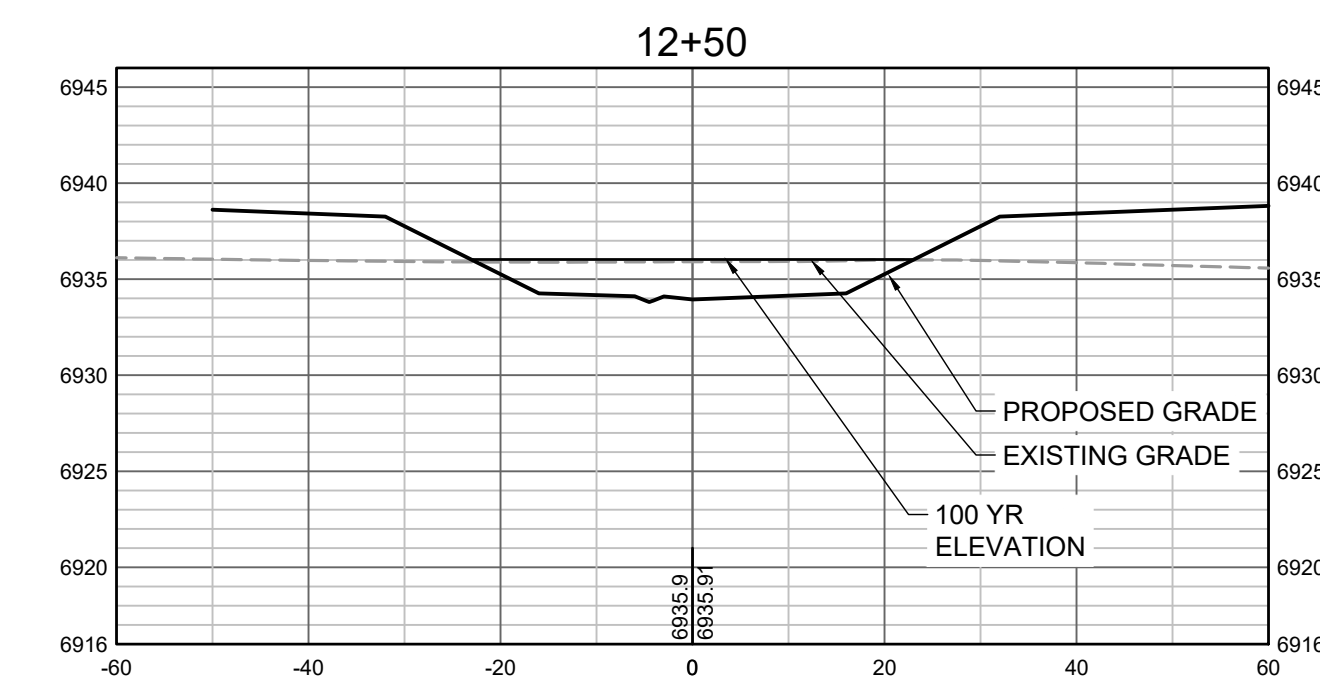
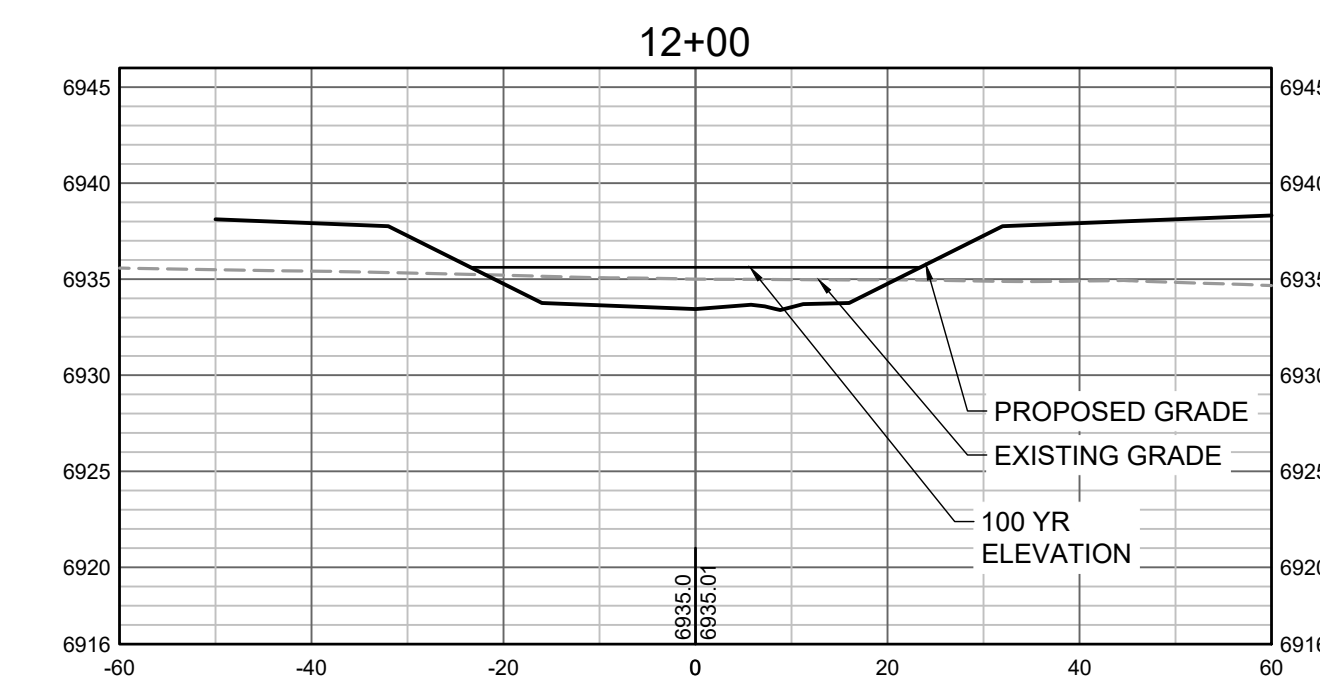
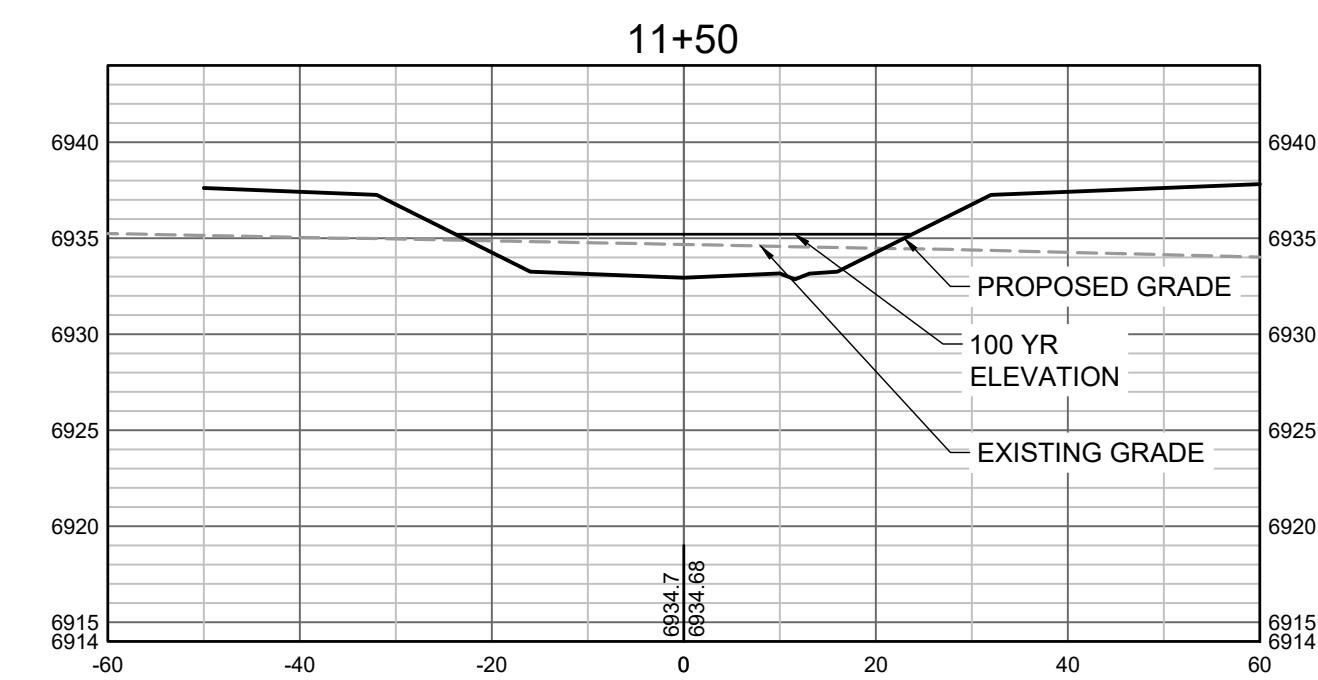
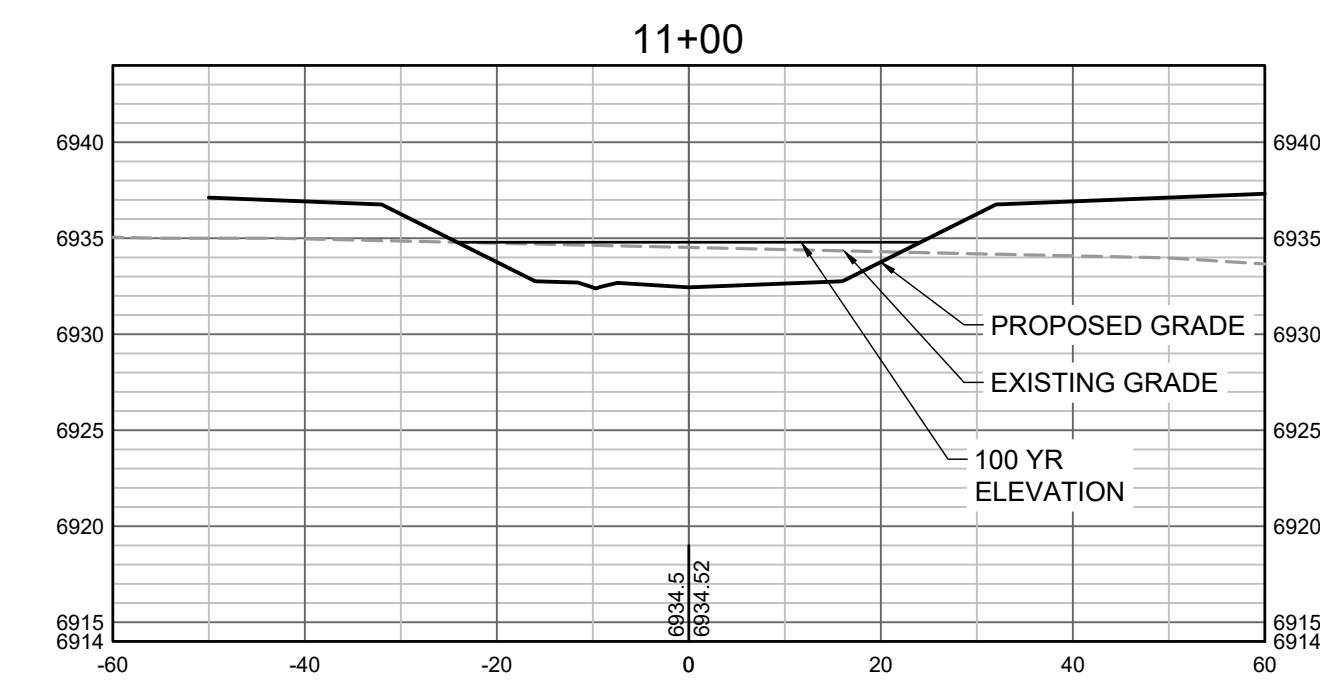
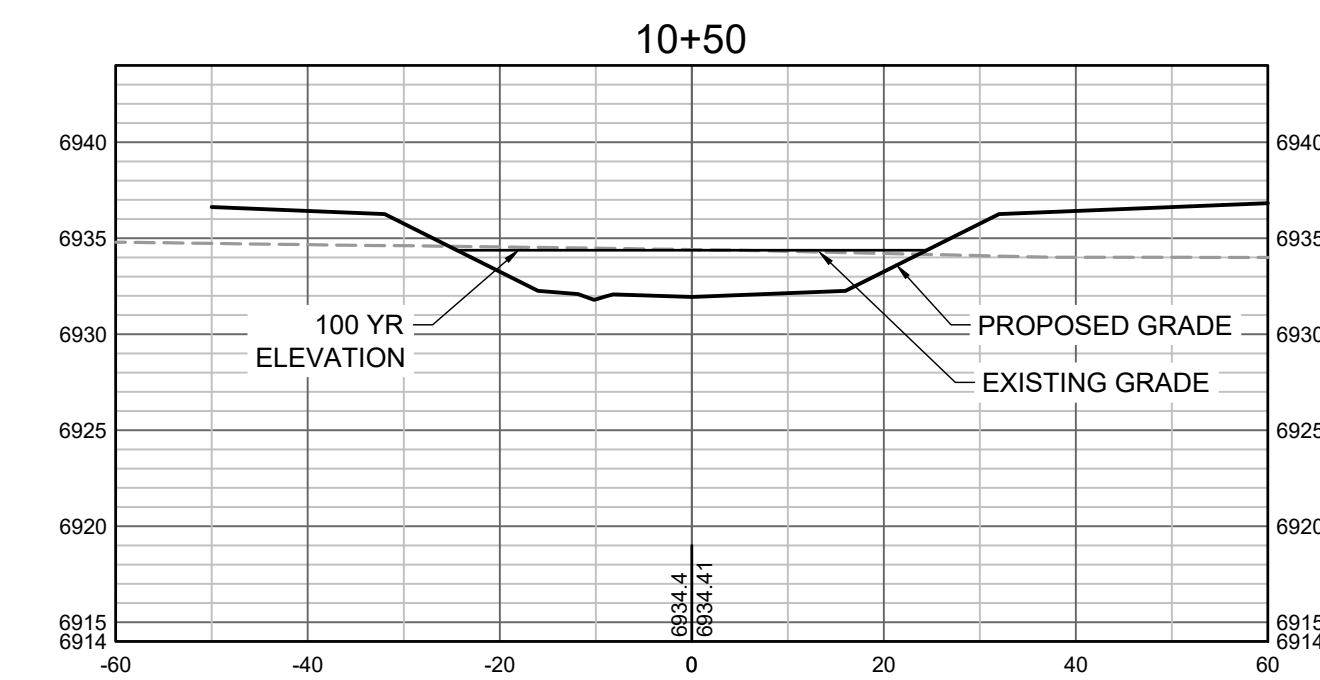
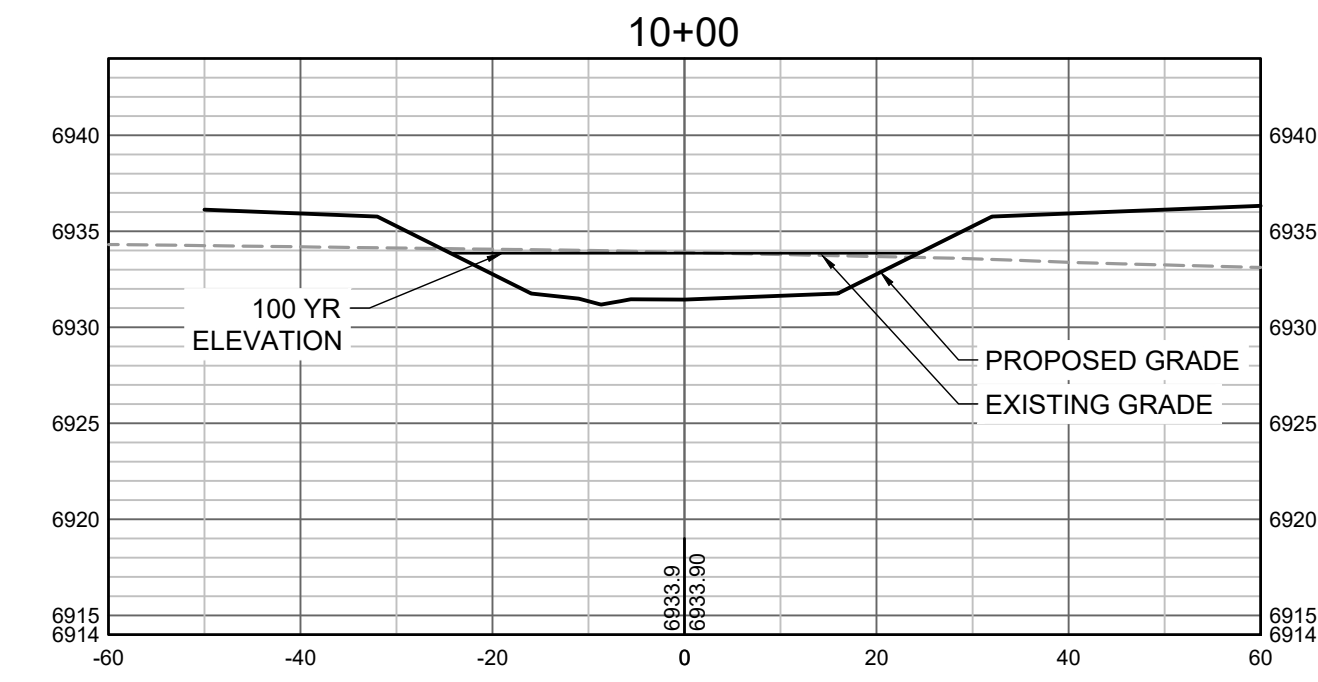
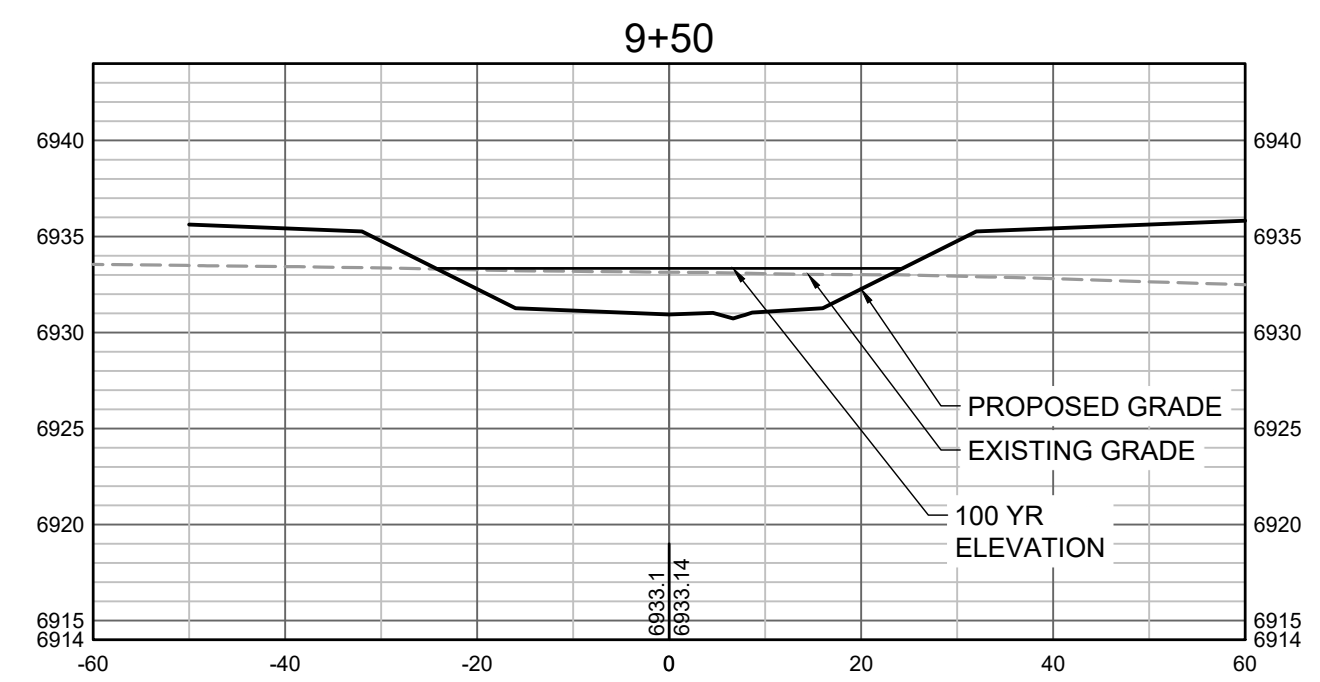
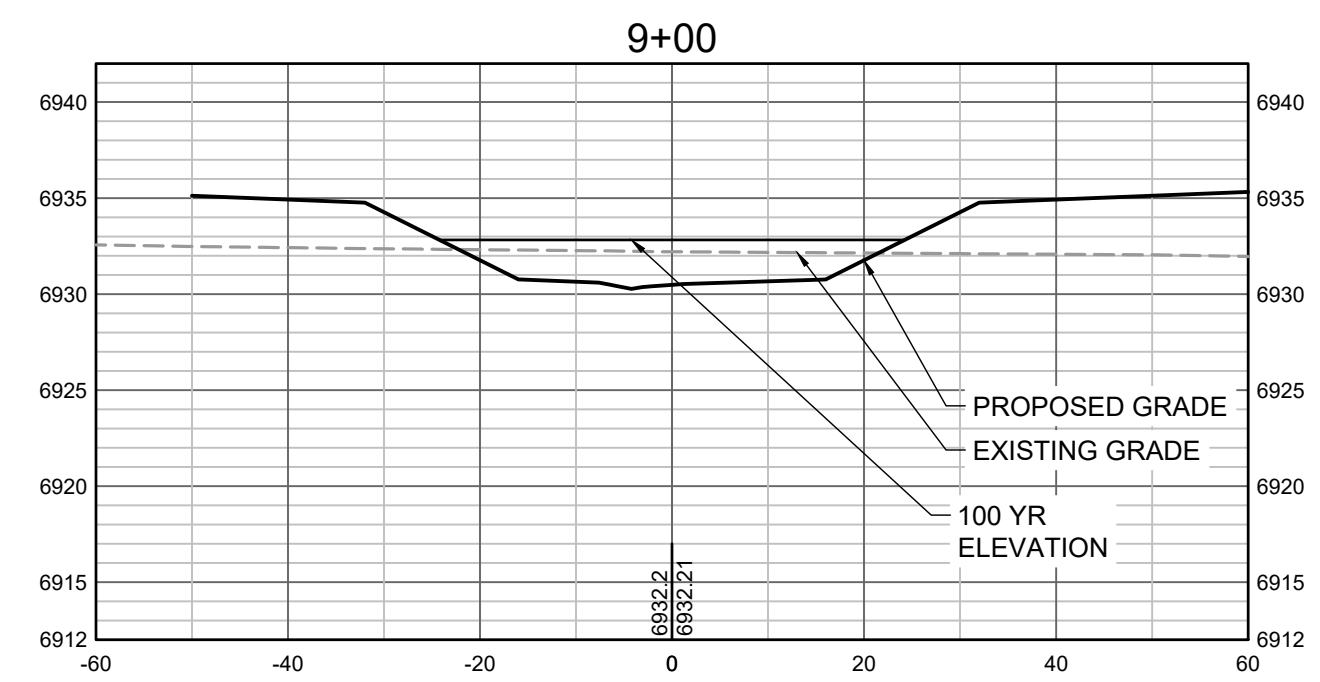
HR GREEN - DENVER
 5619 DTC PARKWAY SUITE 1150
 DENVER CO 80111
 PHONE: 720.602.4999
 FAX: 844.273.1057

GRANDVIEW RESERVE (DRAINAGE A & B)
DR HORTON
 FALCON, COLORADO

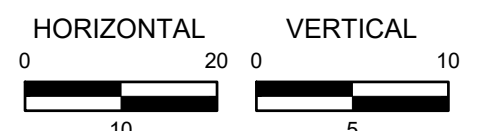
CONSTRUCTION DOCUMENTS
 TRIBUTARY 2 CROSS SECTIONS

SHEET
CS2

32



PROPOSED GRADES TO TIE INTO GRANDVIEW RESERVE FILING 1. REFER TO THE GRANDVIEW RESERVE FILING 1 PLAN SET FOR CONTINUATION OF GRADING THAT IS BEING TIED INTO OUTSIDE OF CHANNEL GRADING LIMITS.



HR GREEN Xrefs: xgs-1-dh01

DRAWN BY: TBI JOB DATE: 3/22/2023
 APPROVED: CMM JOB NUMBER: 201662.03
 CAD DATE: 3/27/2023
 CAD FILE: J:\2020\201662.03\CAD\DWGS\C\CROSS SECTIONS

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NO.	DATE	BY	REVISION DESCRIPTION



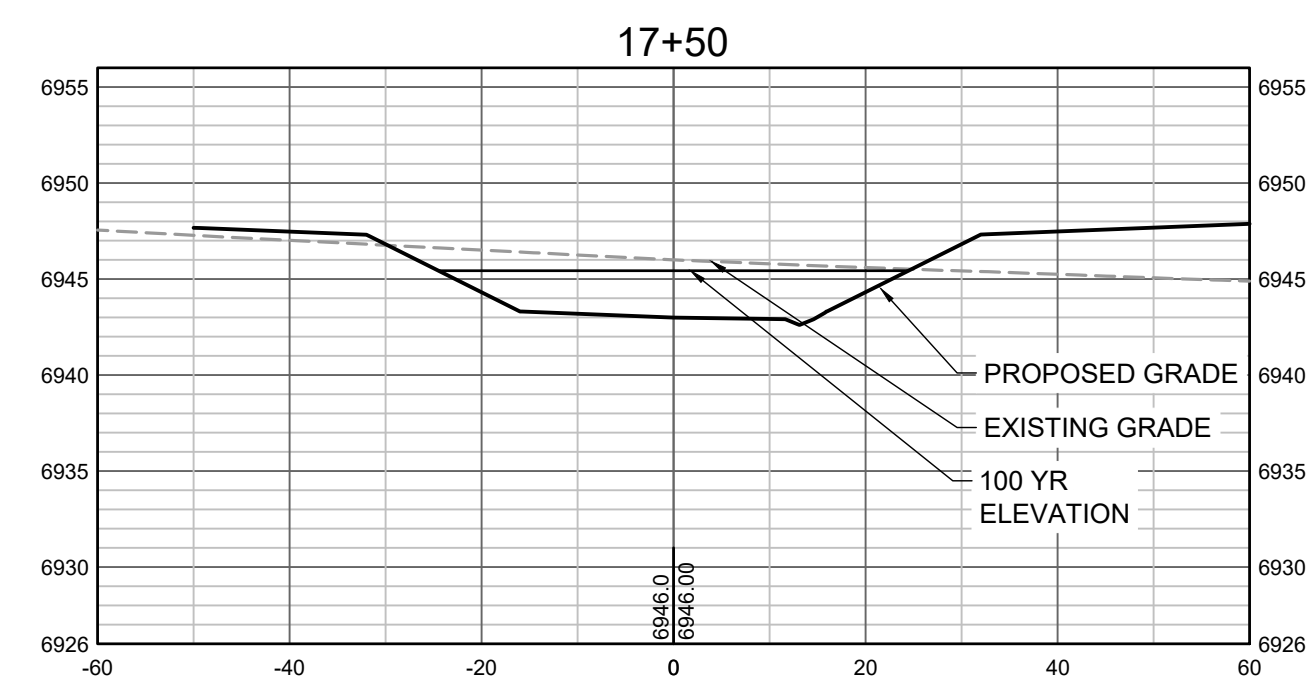
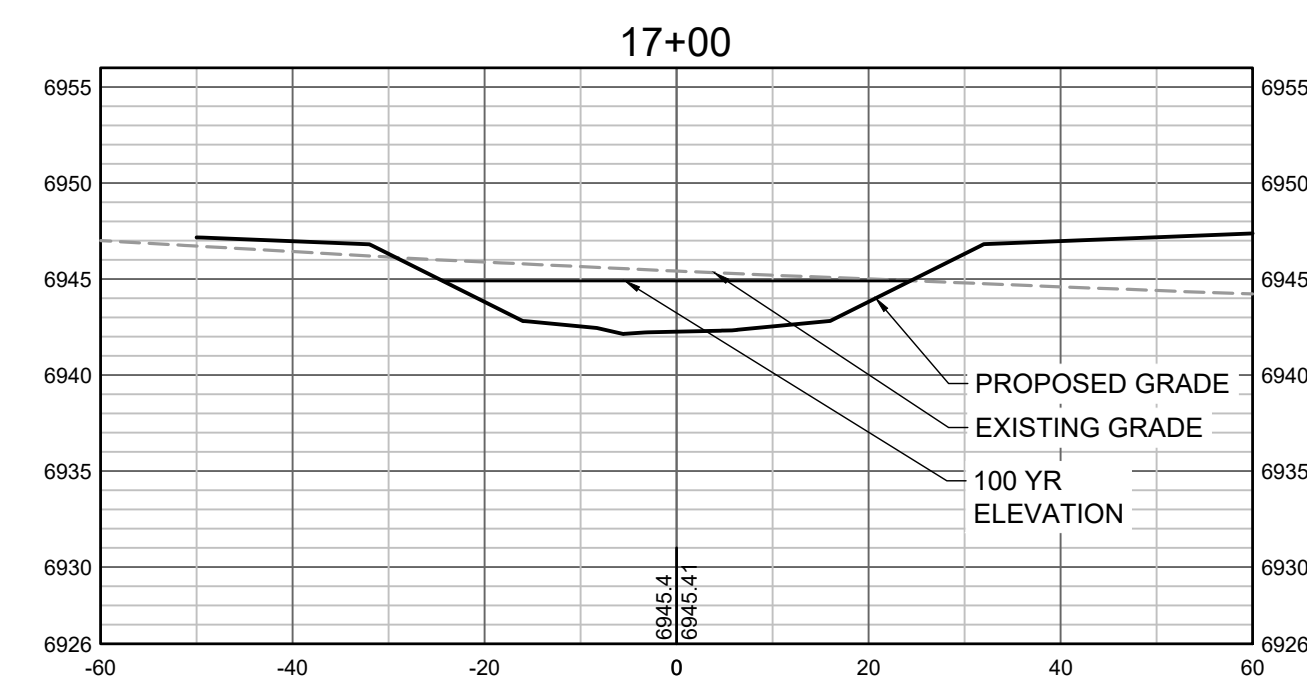
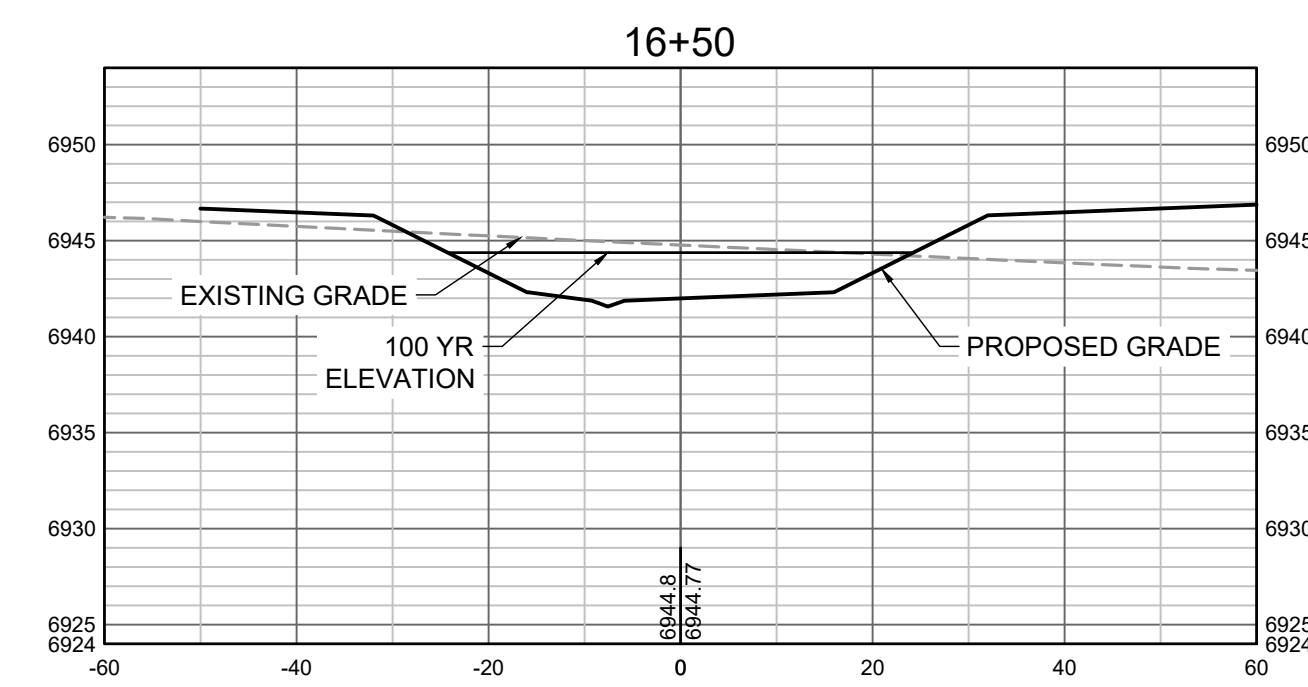
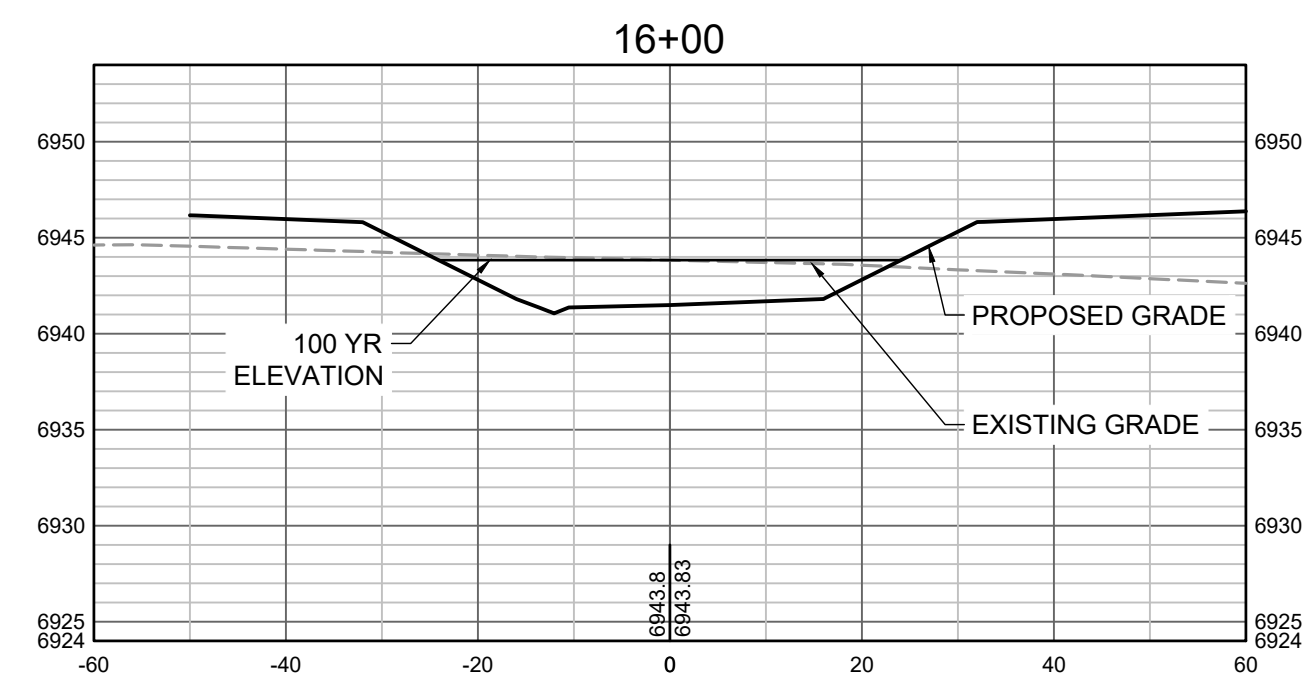
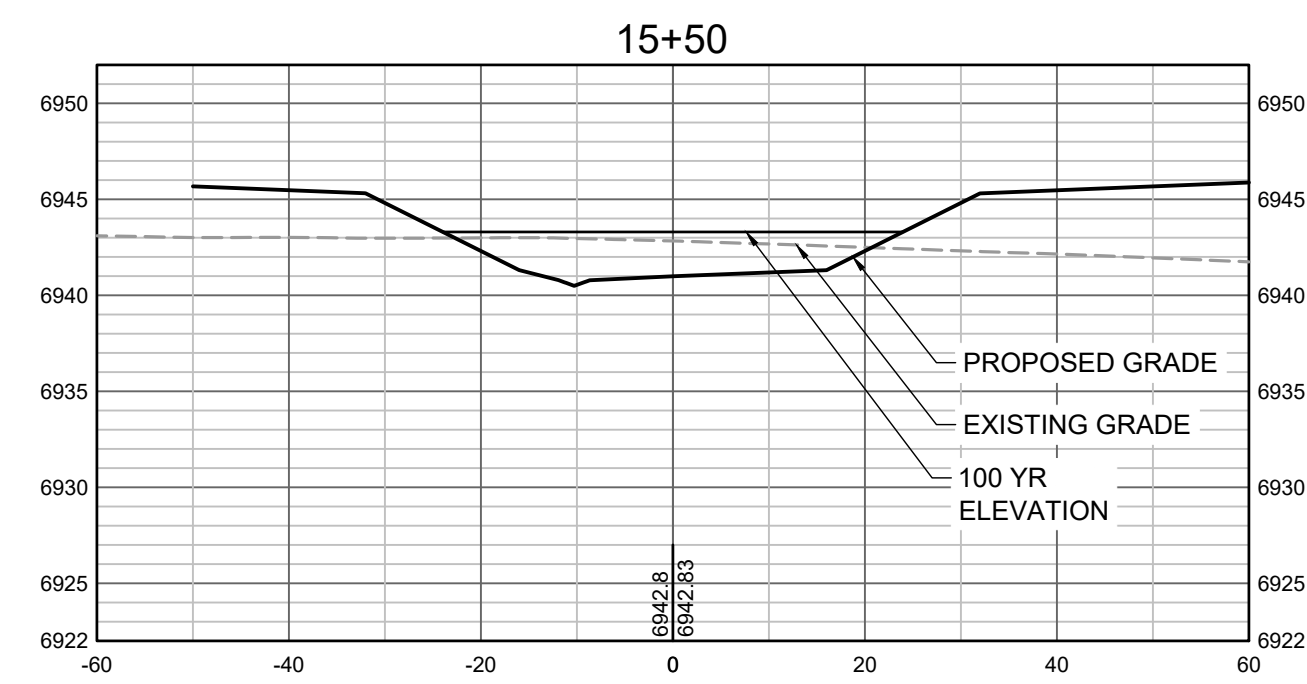
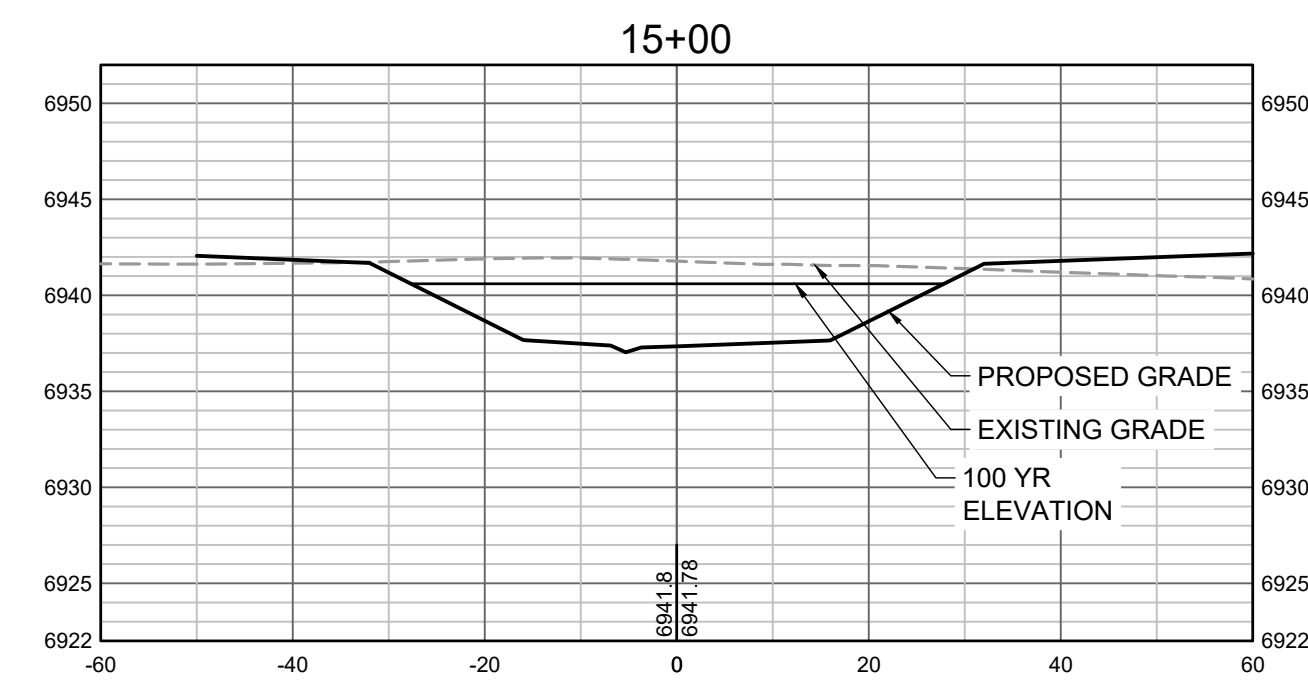
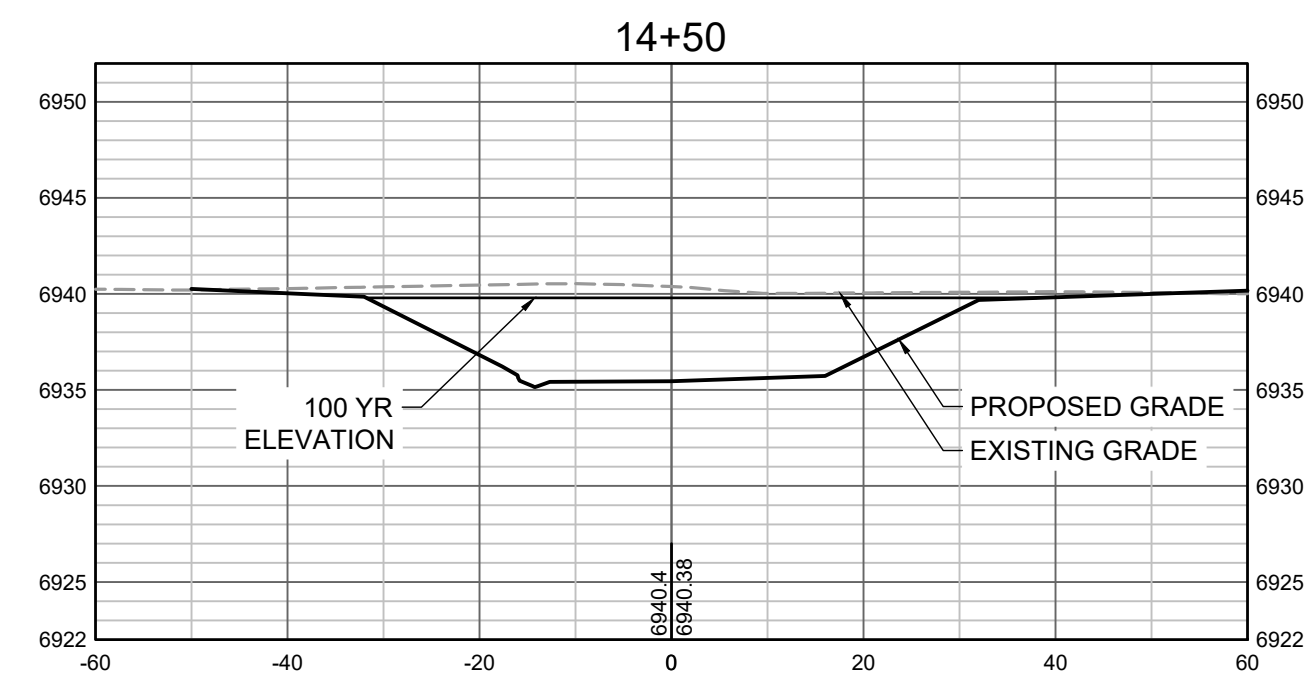
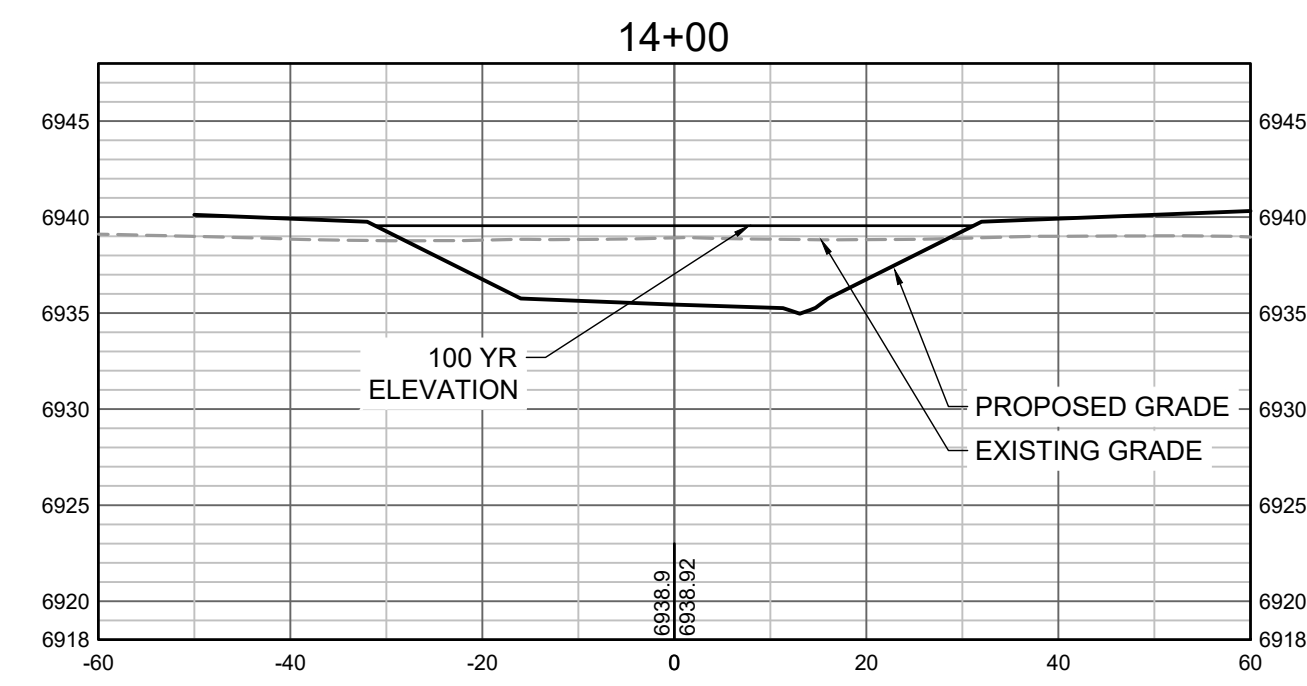
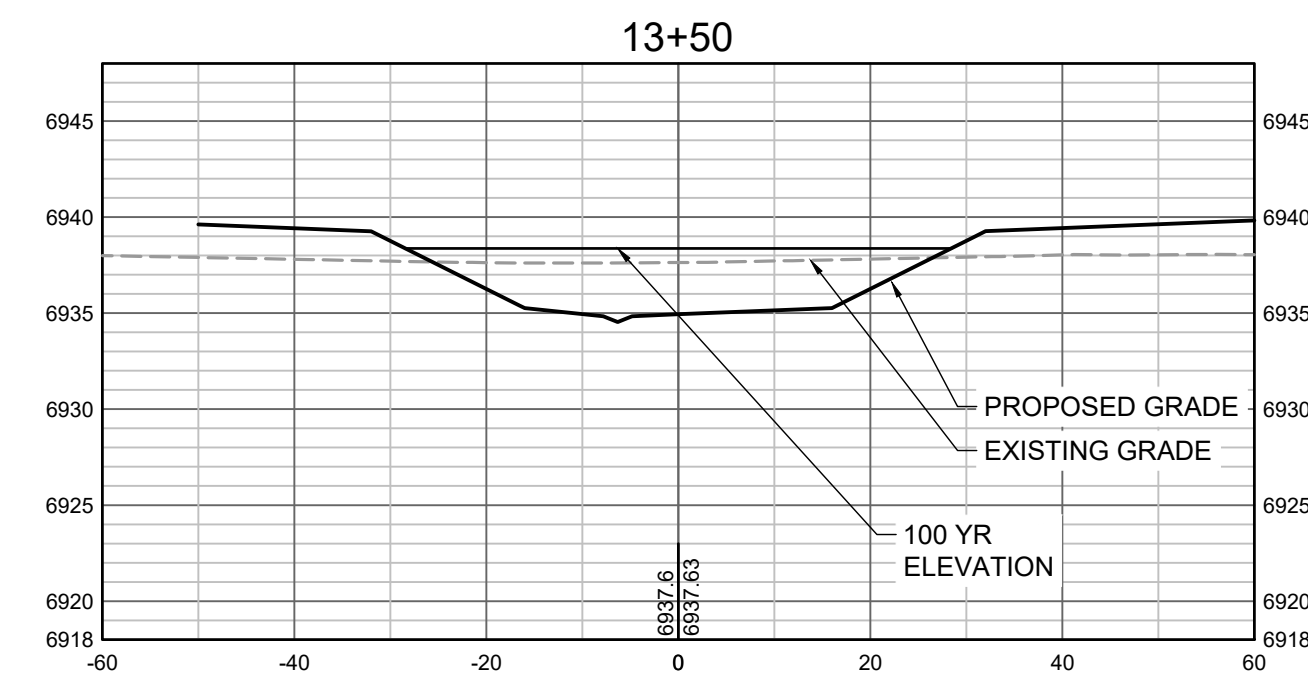
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GRANDVIEW RESERVE (DRAINAGE A & B)
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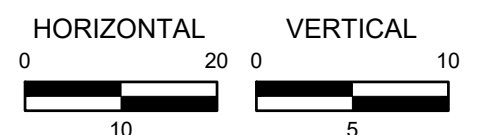
CONSTRUCTION DOCUMENTS
 TRIBUTARY 2 CROSS SECTIONS

SHEET
CS3

33



PROPOSED GRADES TO TIE INTO GRANDVIEW RESERVE FILING 1. REFER TO THE GRANDVIEW RESERVE FILING 1 PLAN SET FOR CONTINUATION OF GRADING THAT IS BEING TIED INTO OUTSIDE OF CHANNEL GRADING LIMITS.



HR GREEN Xrefs: xgs1-dh01

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 CAD FILE: J:\2020\201662.03\CAD\DWG\C\CROSS SECTIONS

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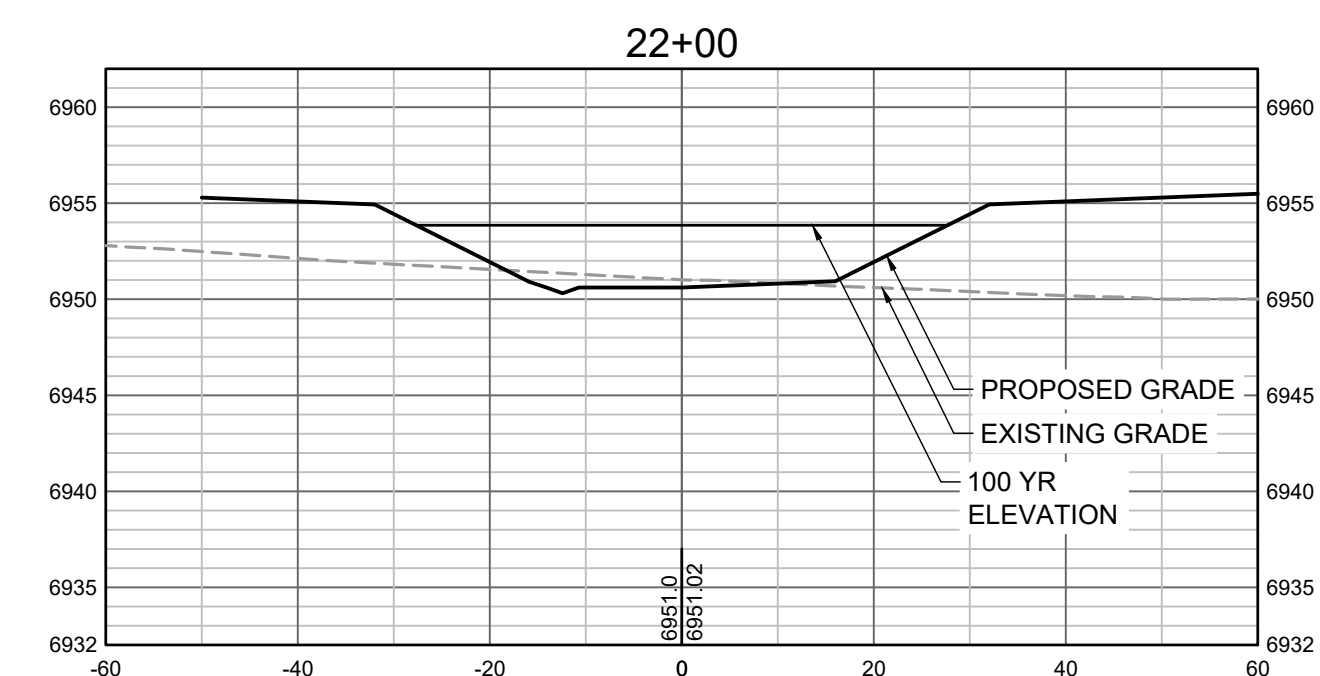
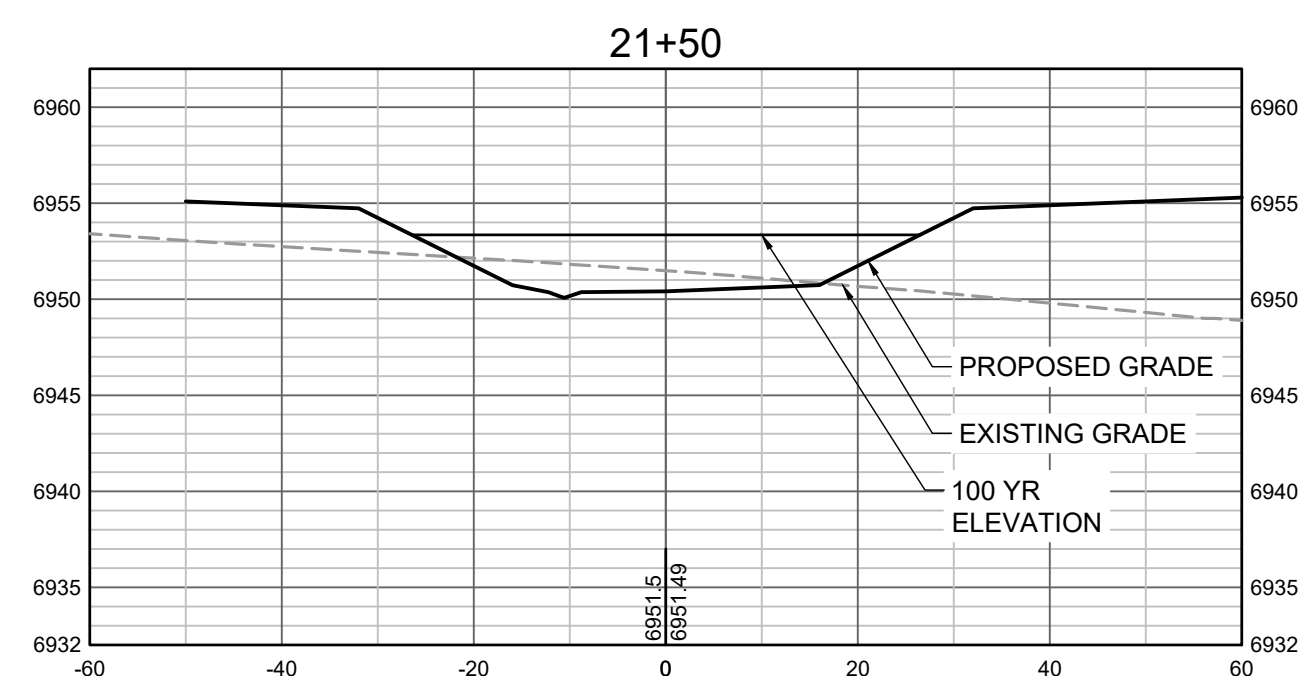
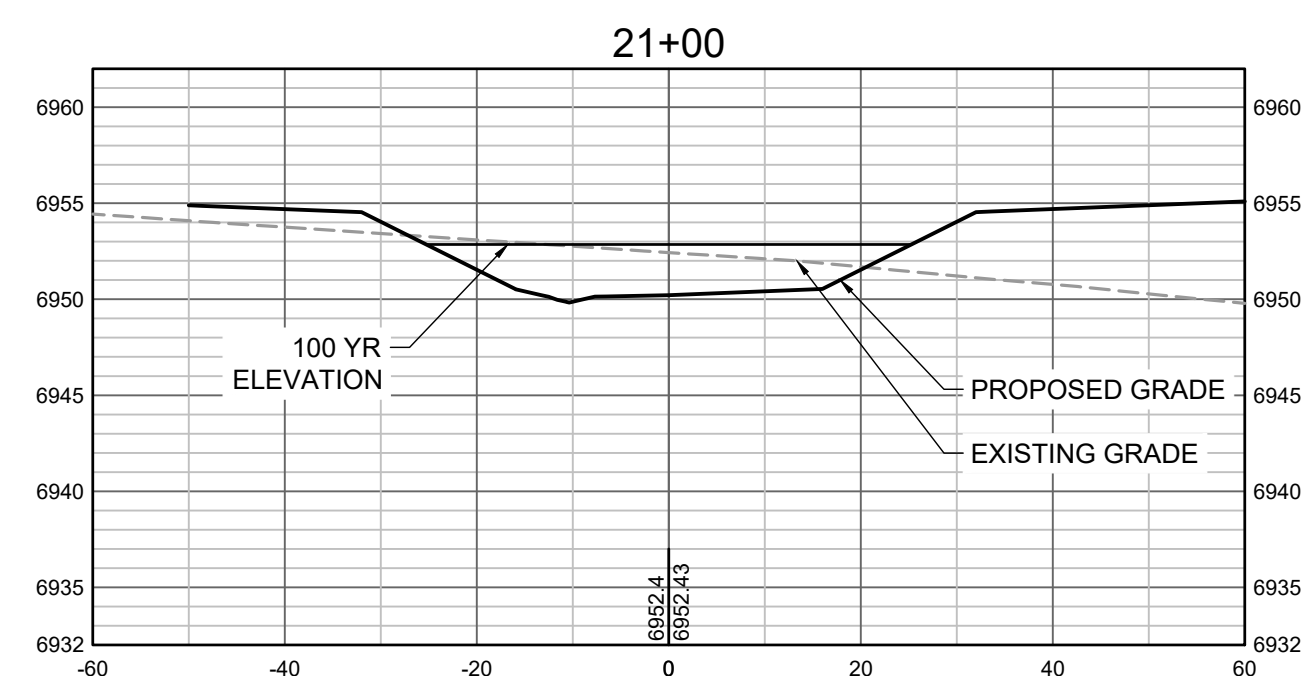
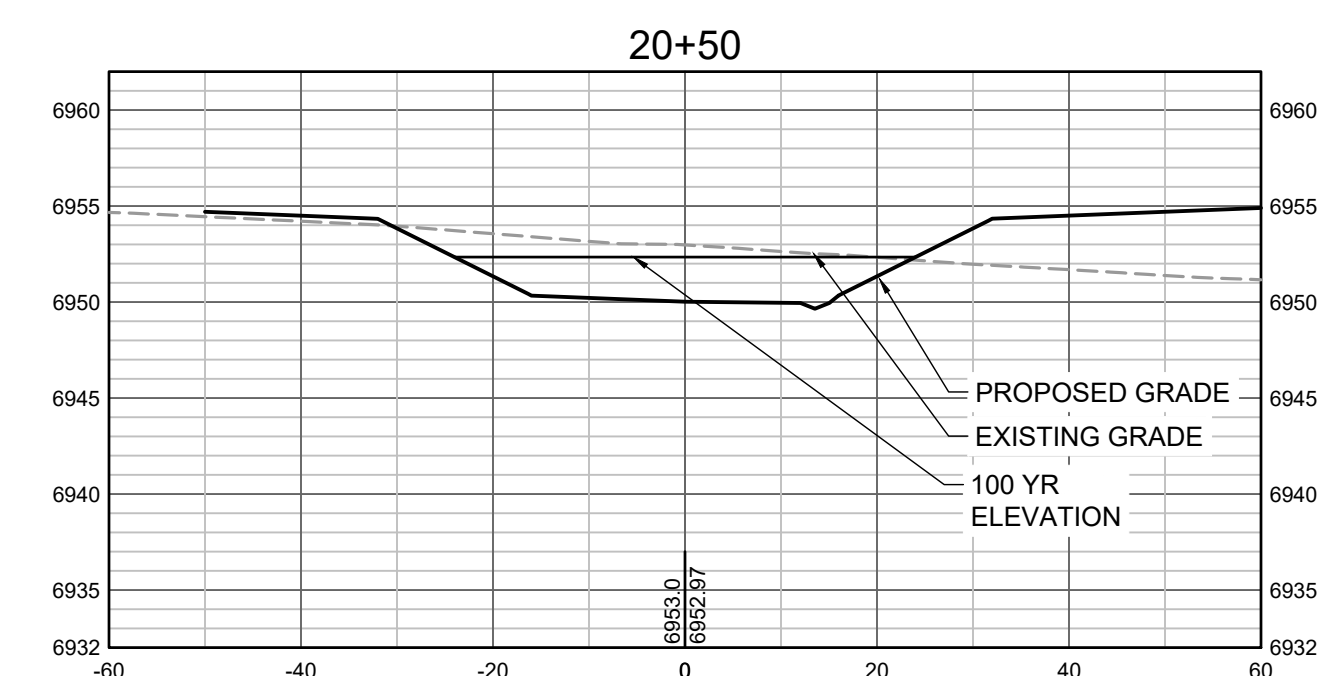
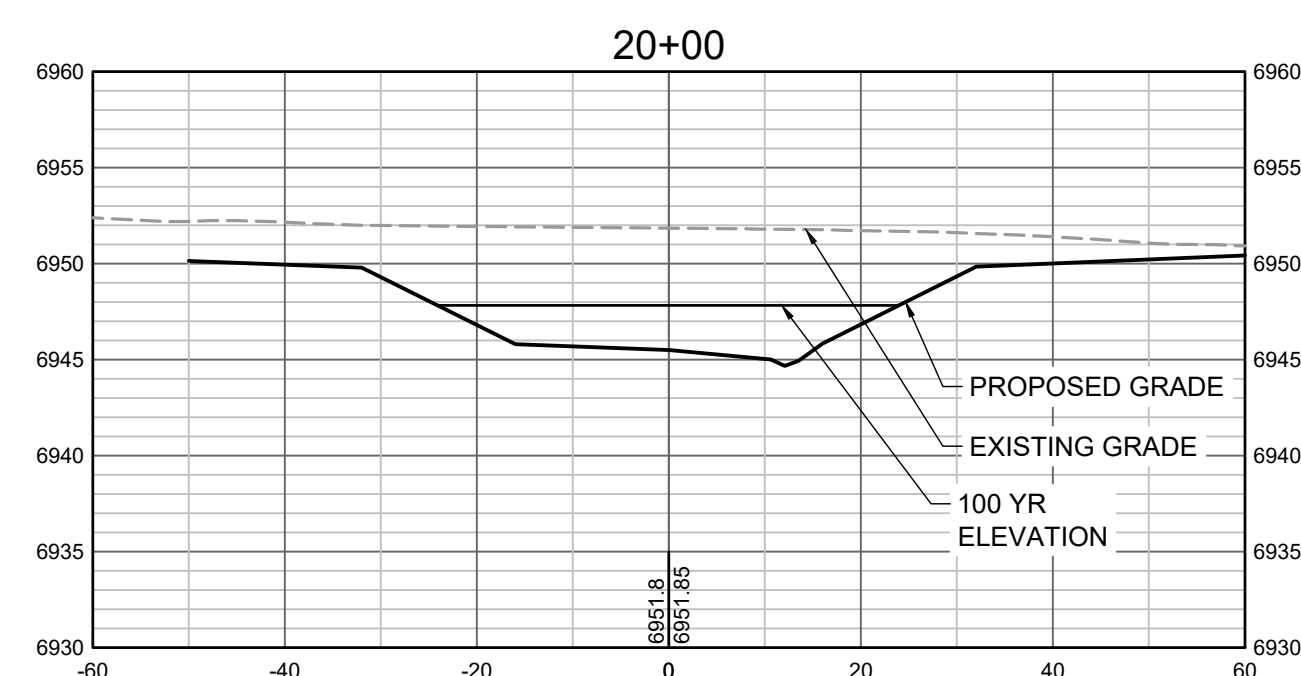
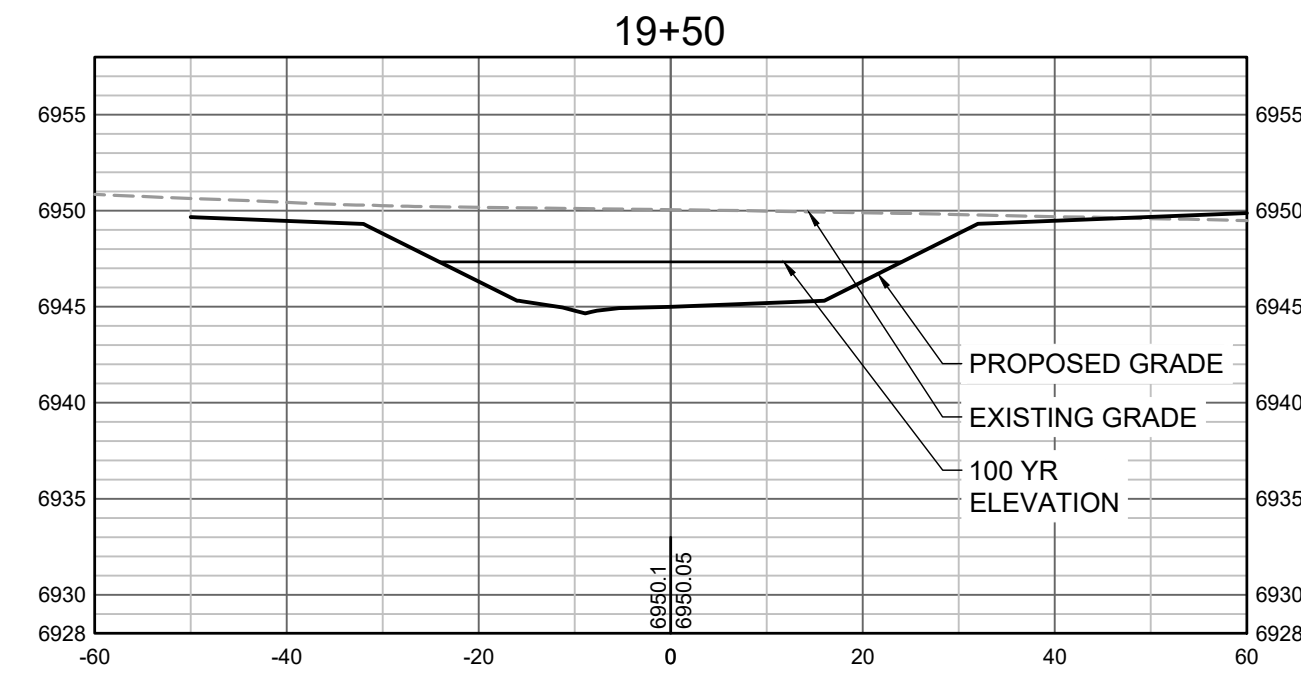
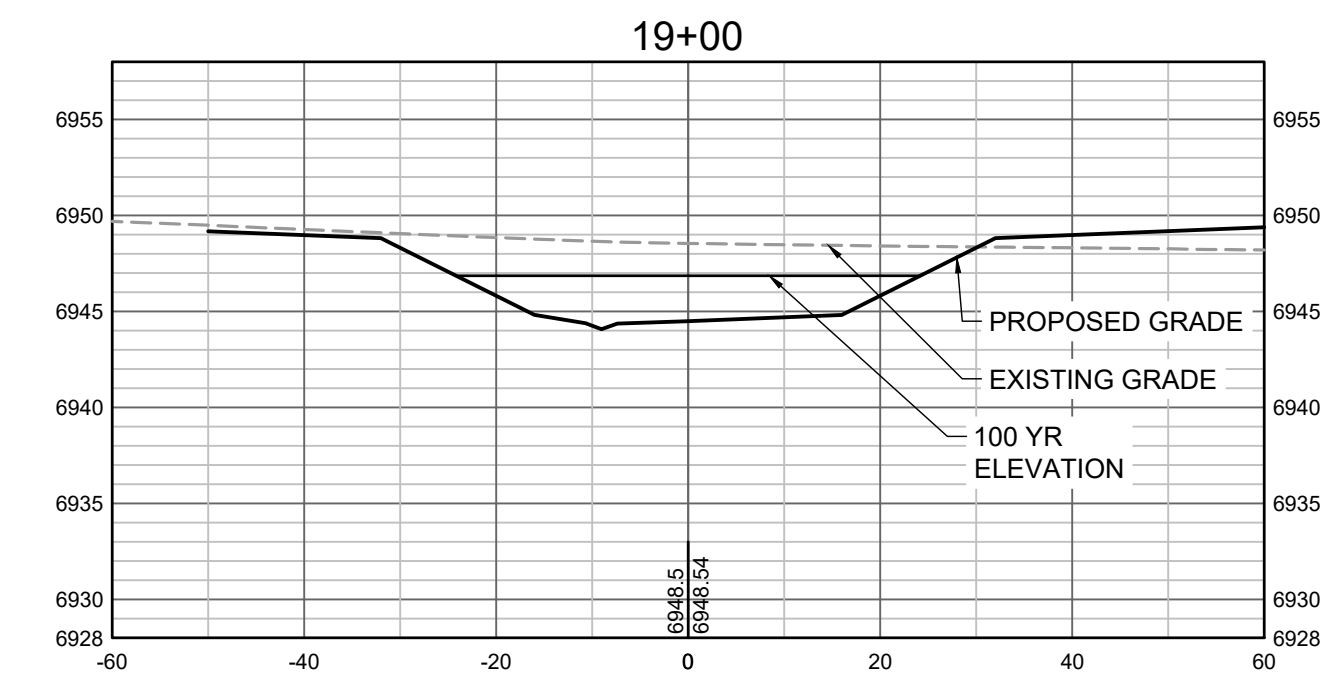
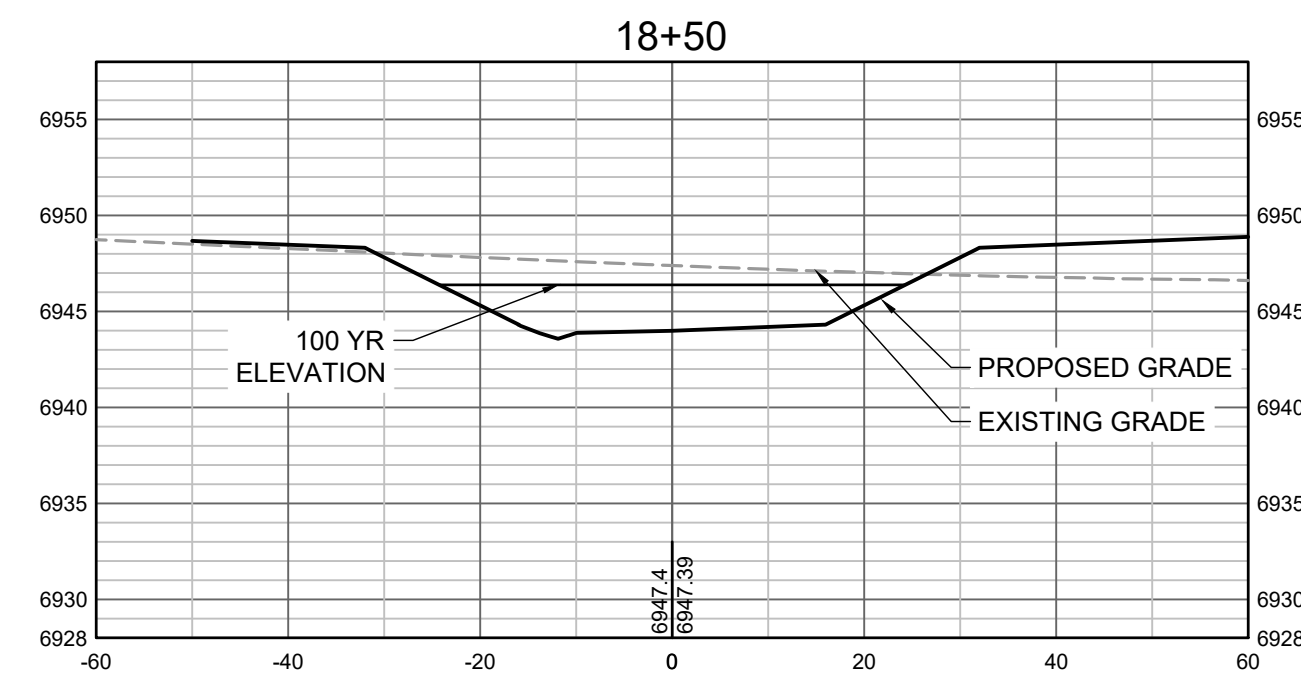
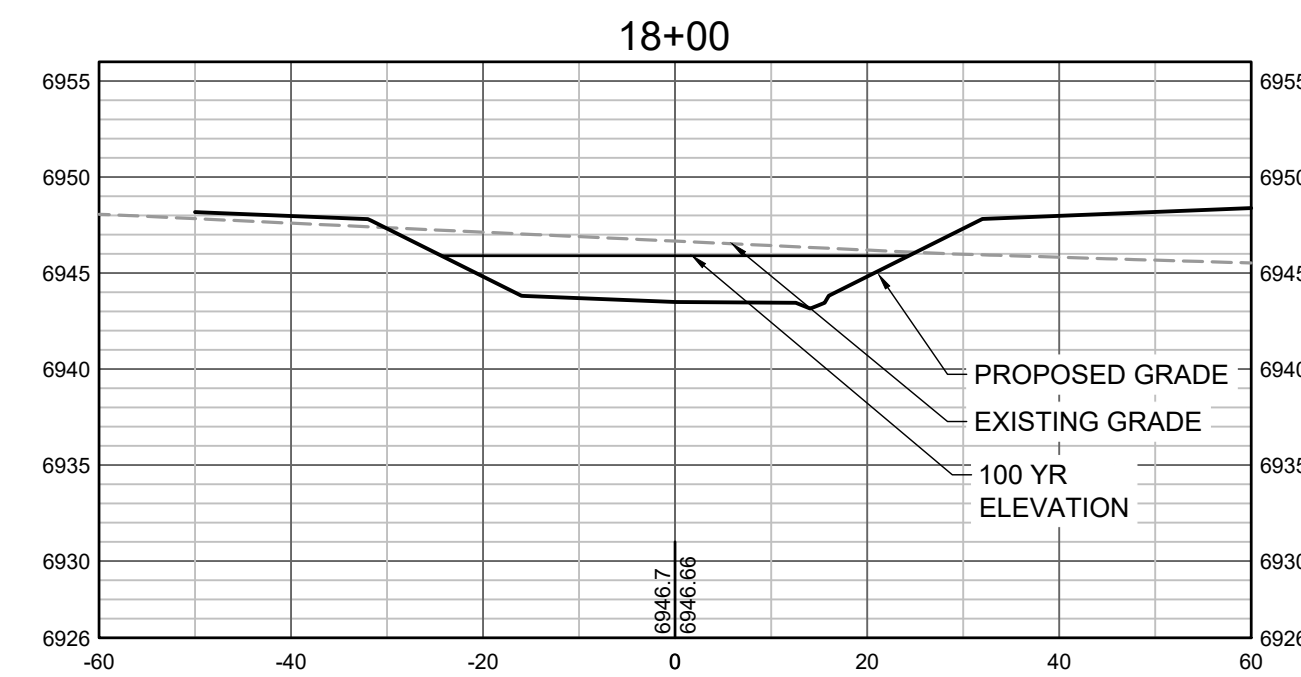
NO.	DATE	BY	REVISION DESCRIPTION

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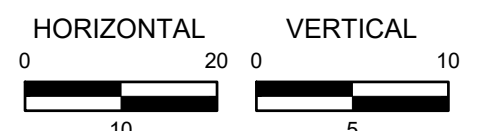
GRANDVIEW RESERVE (DRAINAGE A & B)
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CONSTRUCTION DOCUMENTS
 TRIBUTARY 2 CROSS SECTIONS

SHEET
CS4
34



PROPOSED GRADES TO TIE INTO GRANDVIEW RESERVE FILING 1. REFER TO THE GRANDVIEW RESERVE FILING 1 PLAN SET FOR CONTINUATION OF GRADING THAT IS BEING TIED INTO OUTSIDE OF CHANNEL GRADING LIMITS.



HR GREEN Xrefs: xgs-1-dh01

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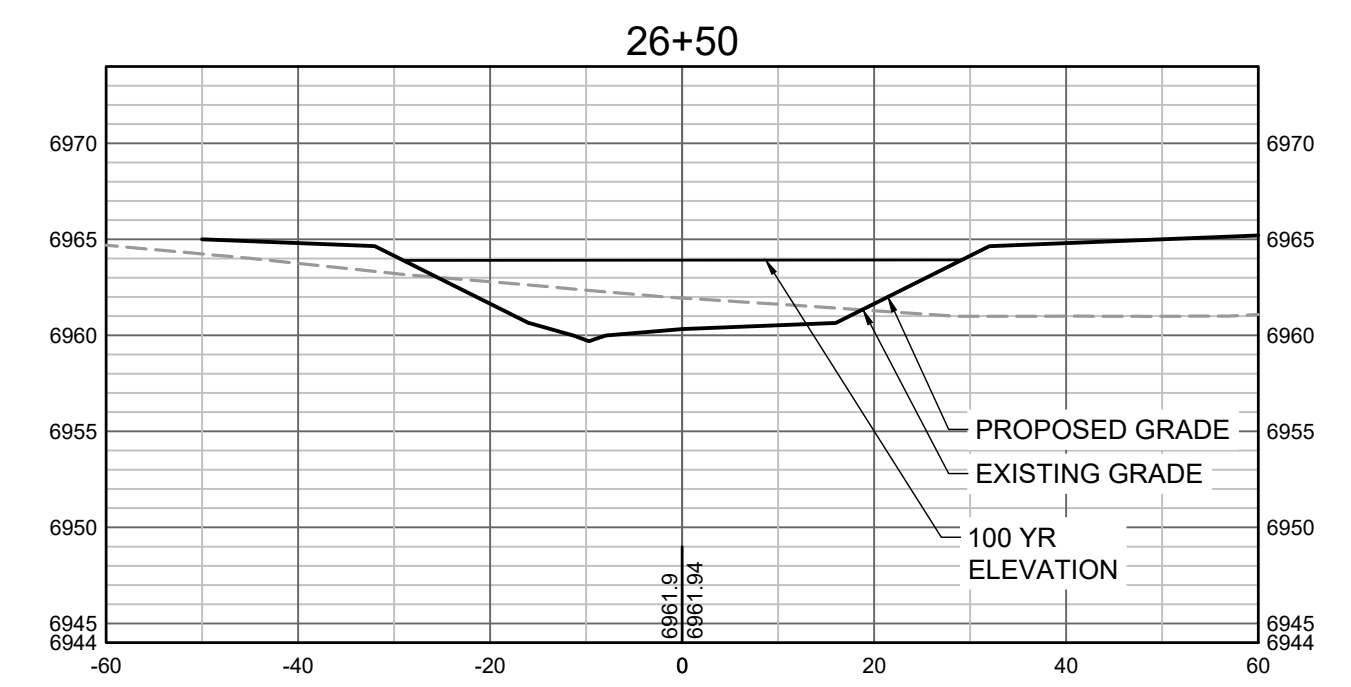
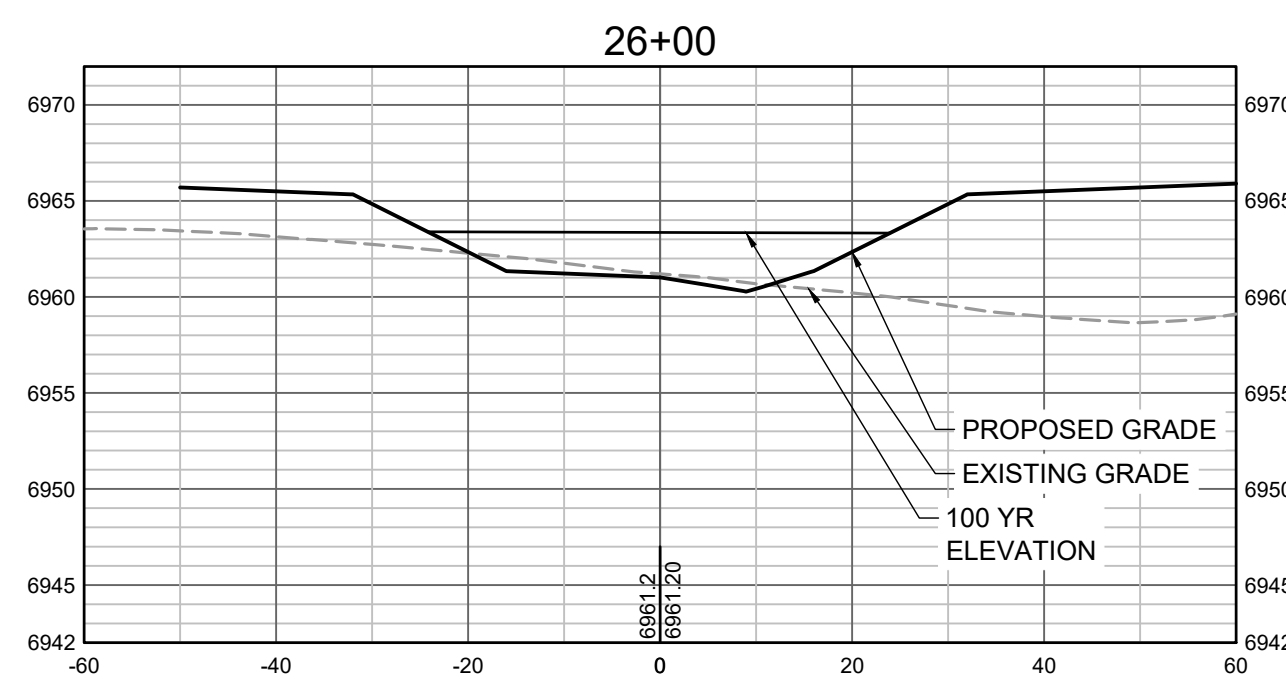
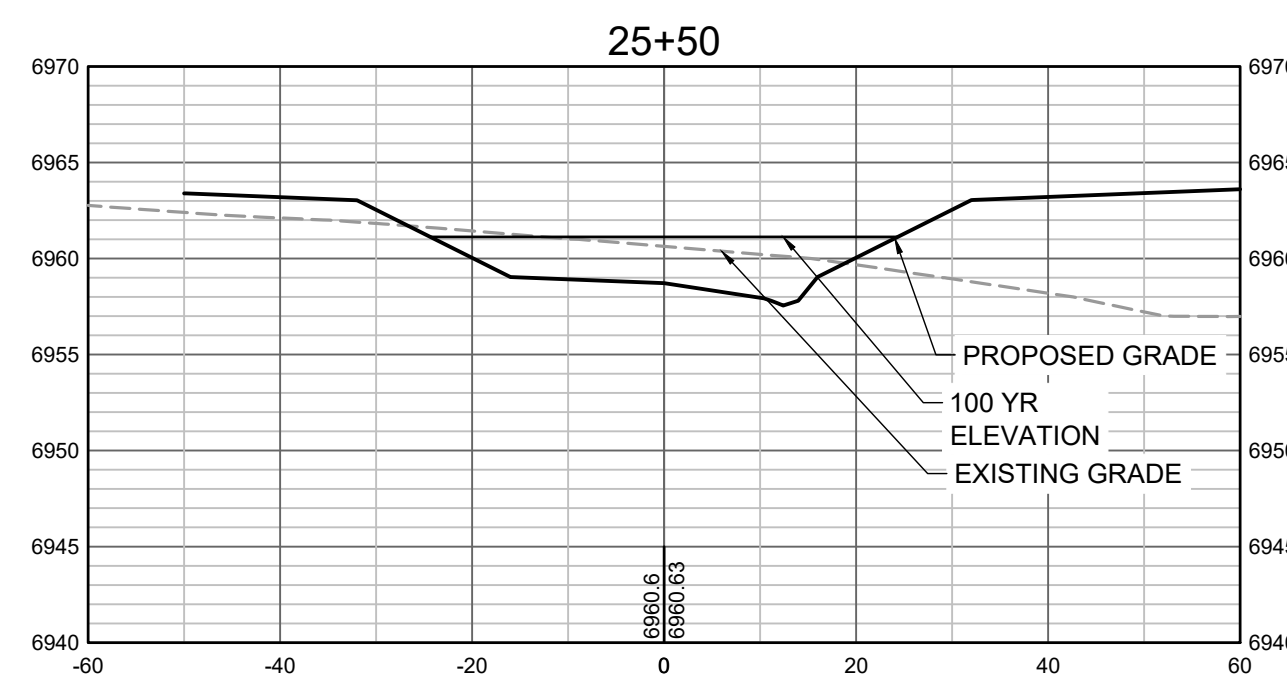
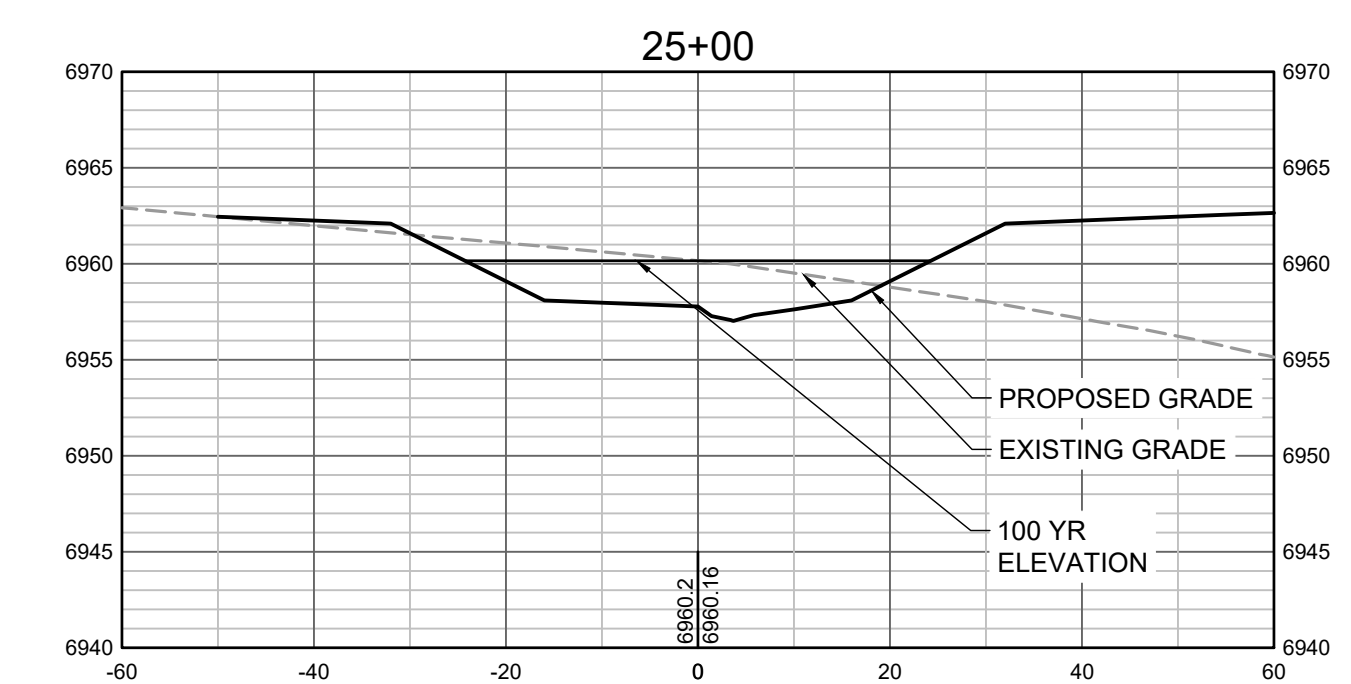
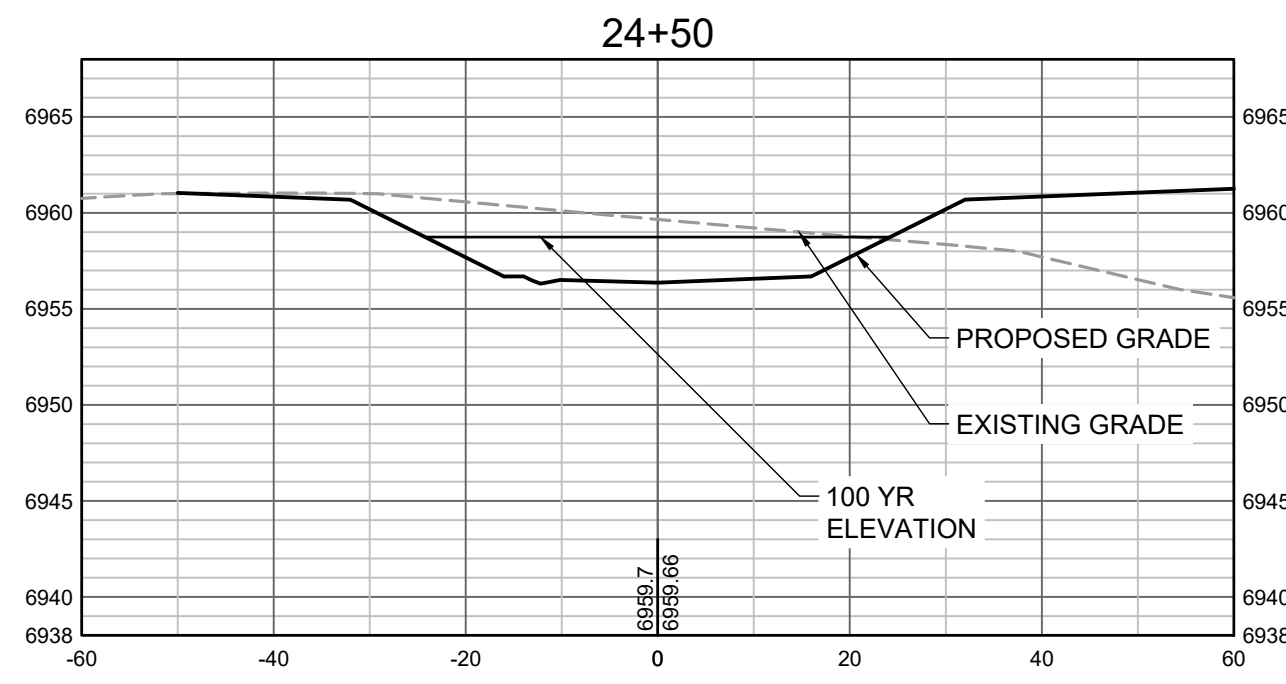
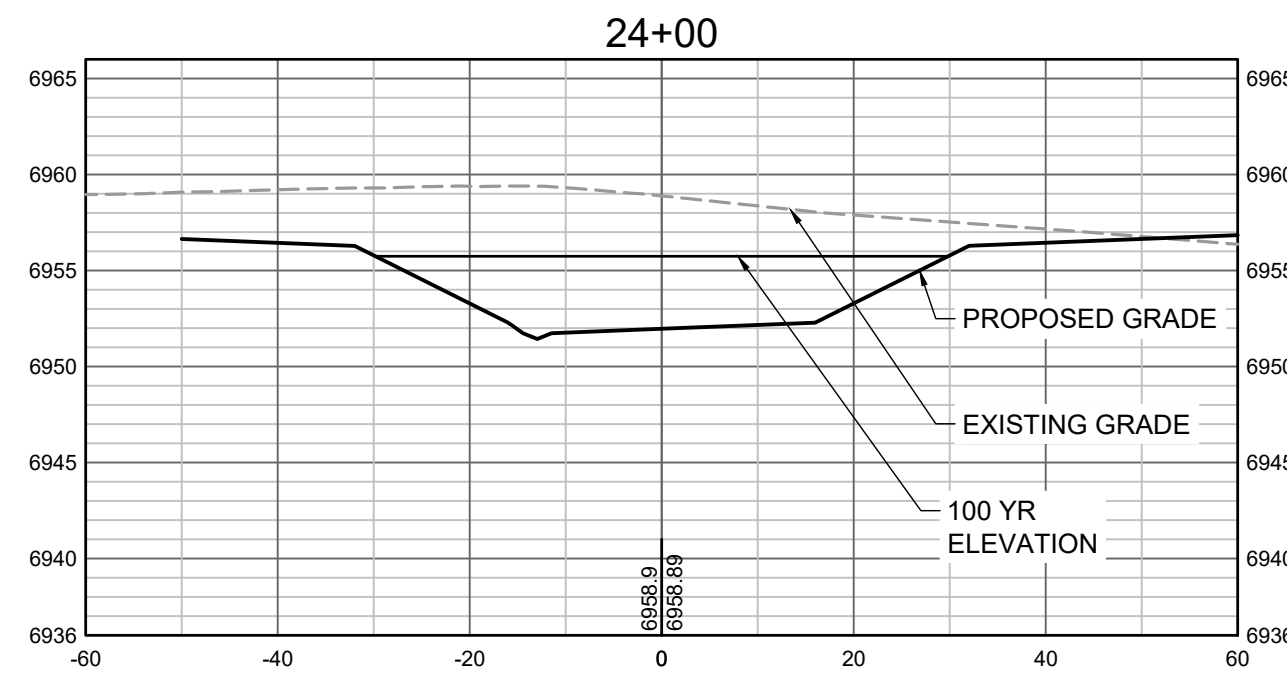
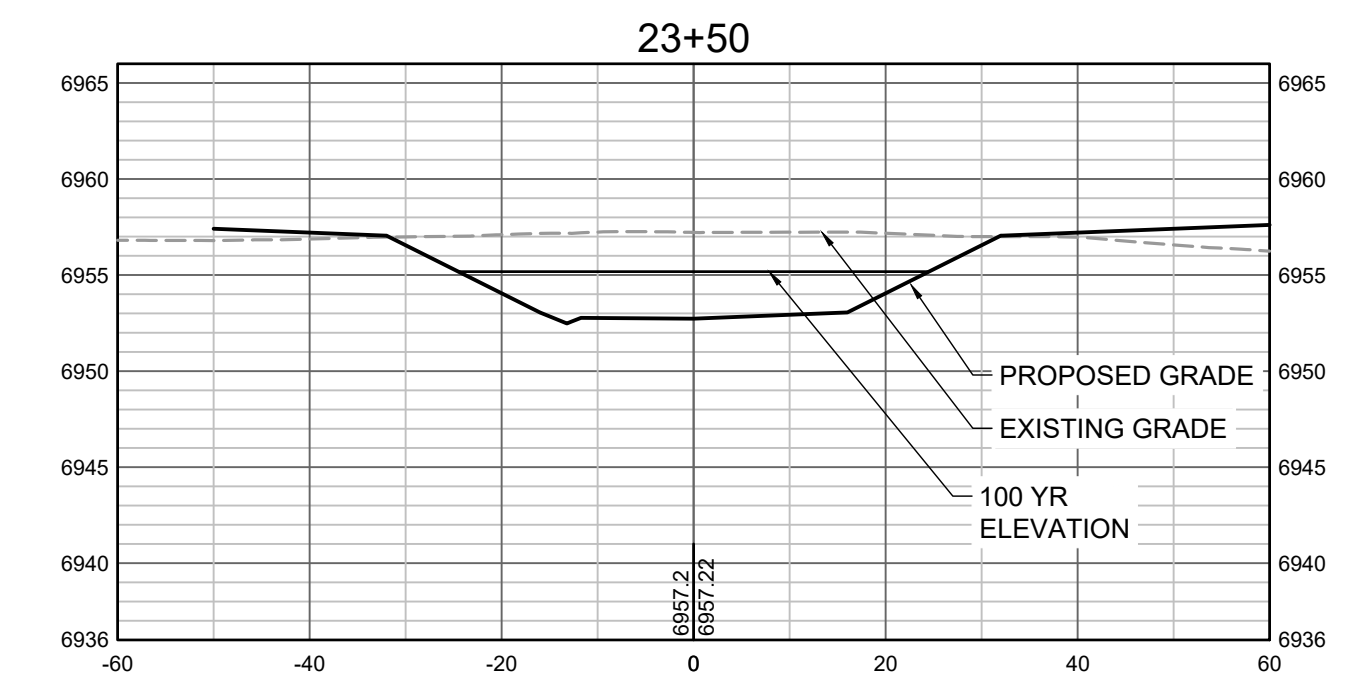
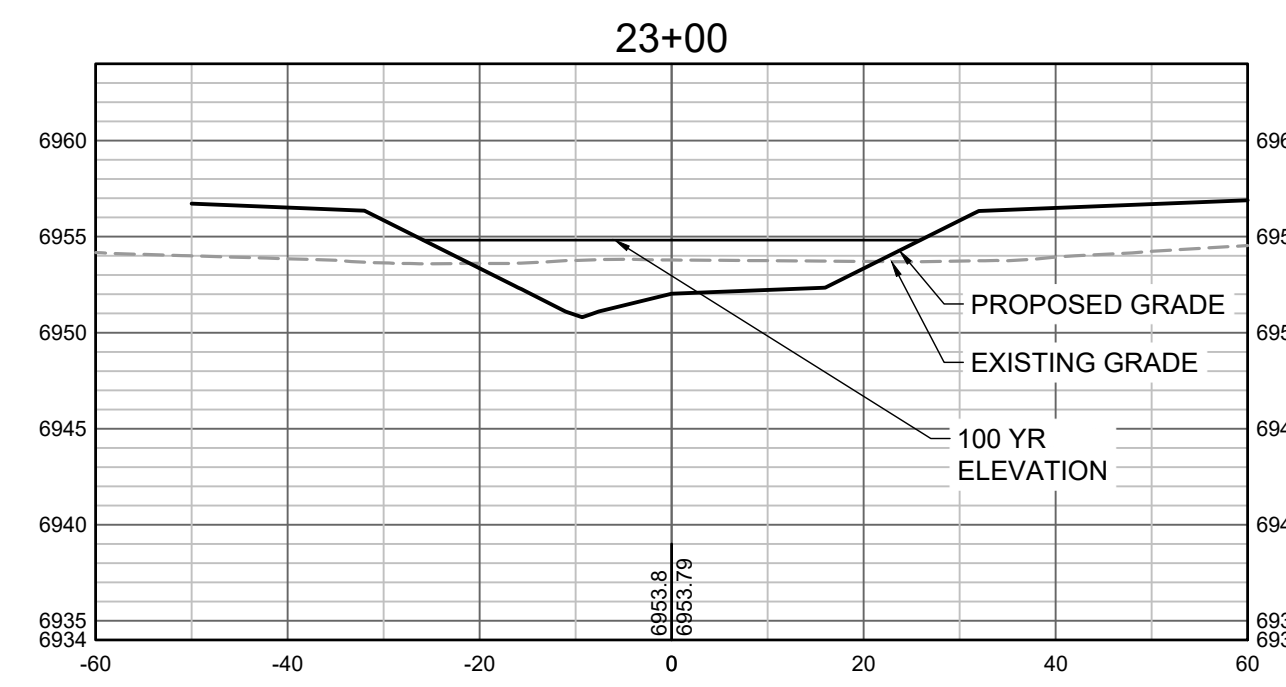
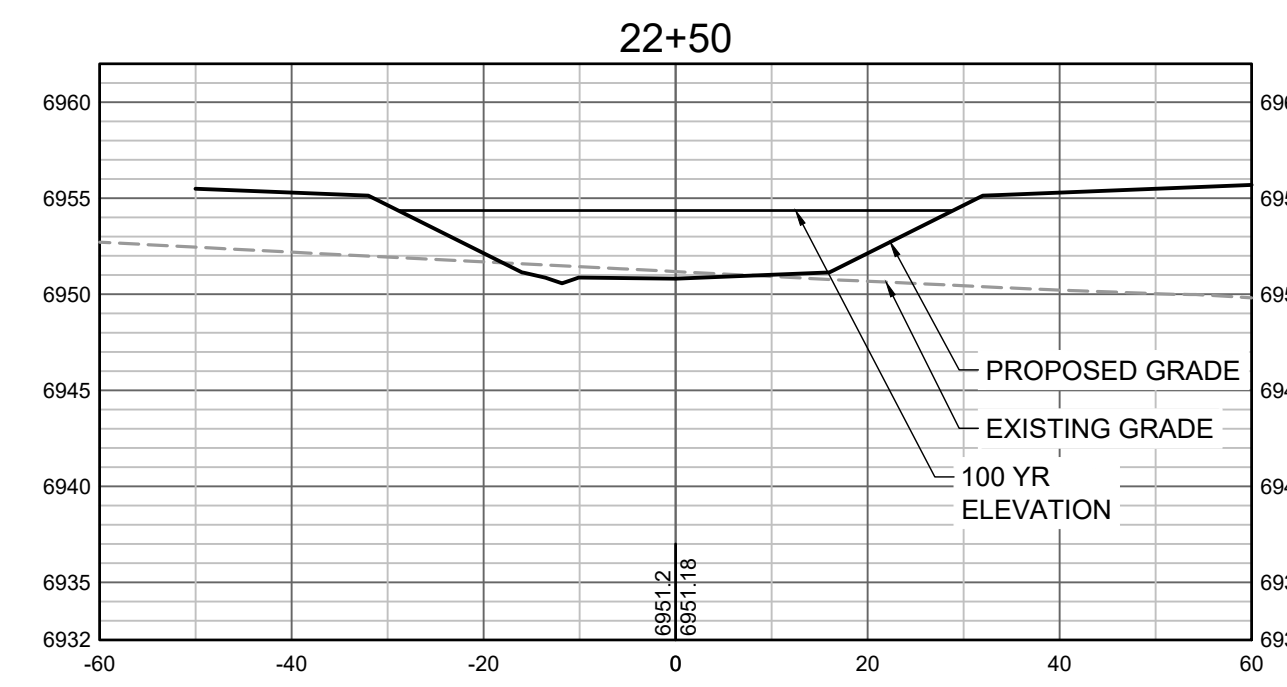
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GRANDVIEW RESERVE (DRAINAGE A & B)
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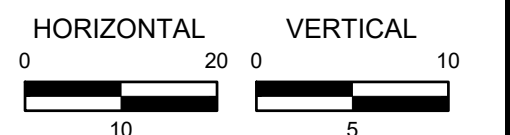
CONSTRUCTION DOCUMENTS
 TRIBUTARY 2 CROSS SECTIONS

SHEET
CS5

35



PROPOSED GRADES TO TIE INTO GRANDVIEW RESERVE FILING 1. REFER TO THE GRANDVIEW RESERVE FILING 1 PLAN SET FOR CONTINUATION OF GRADING THAT IS BEING TIED INTO OUTSIDE OF CHANNEL GRADING LIMITS.



HR GREEN Xrefs: xgs-1-dh01

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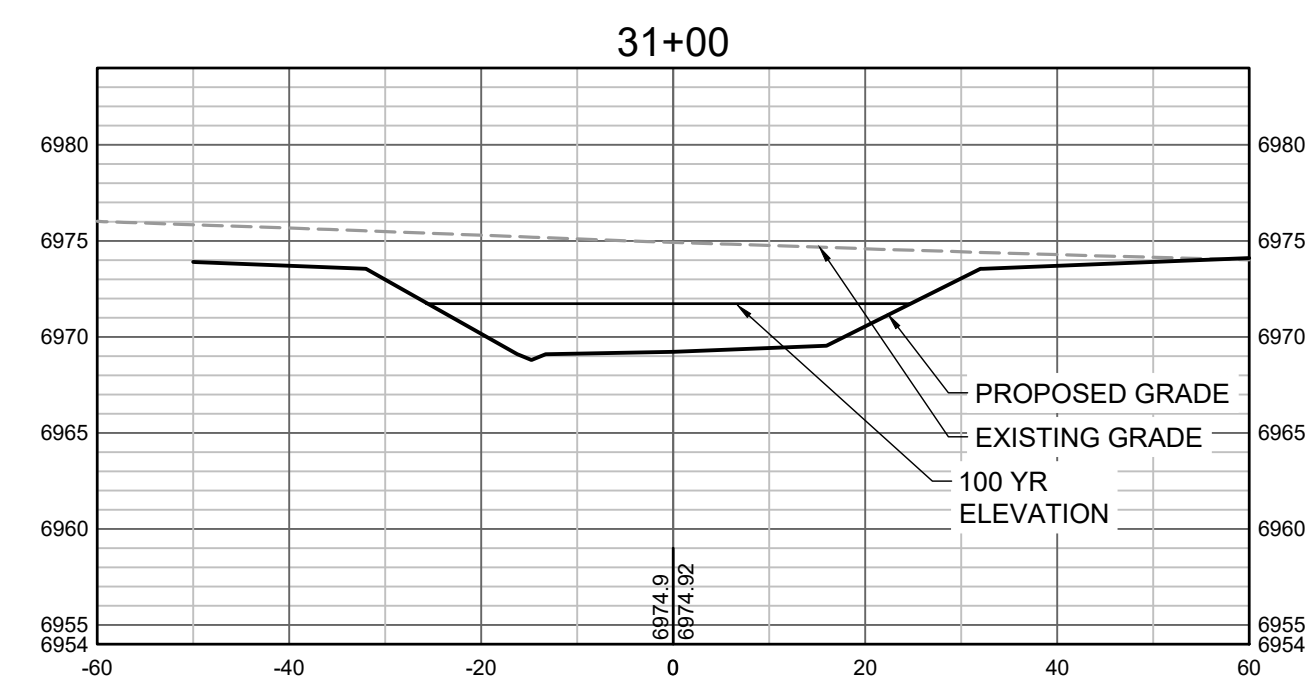
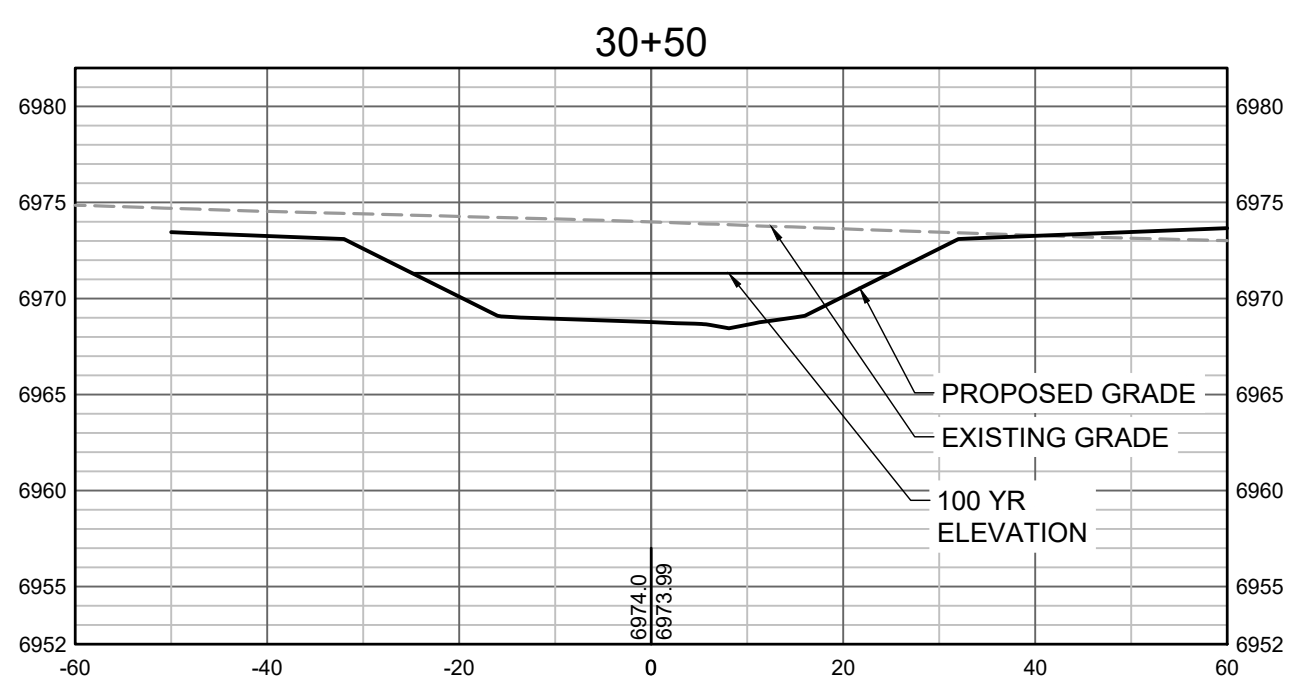
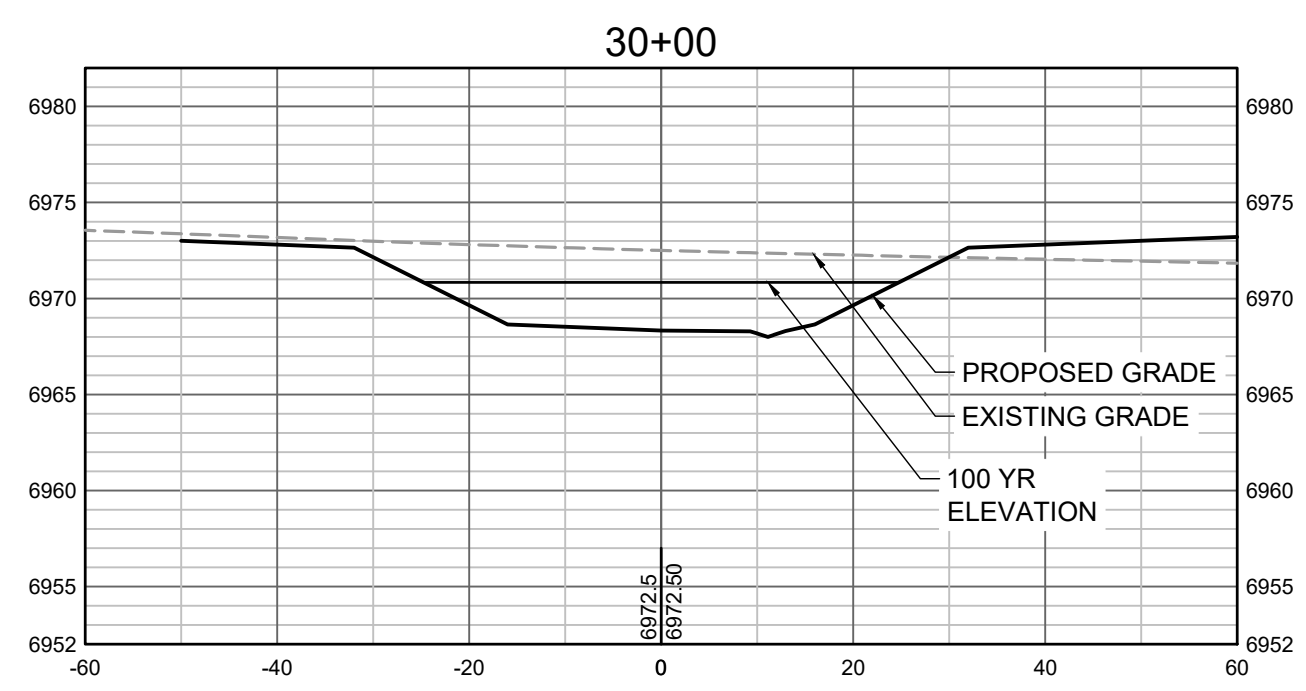
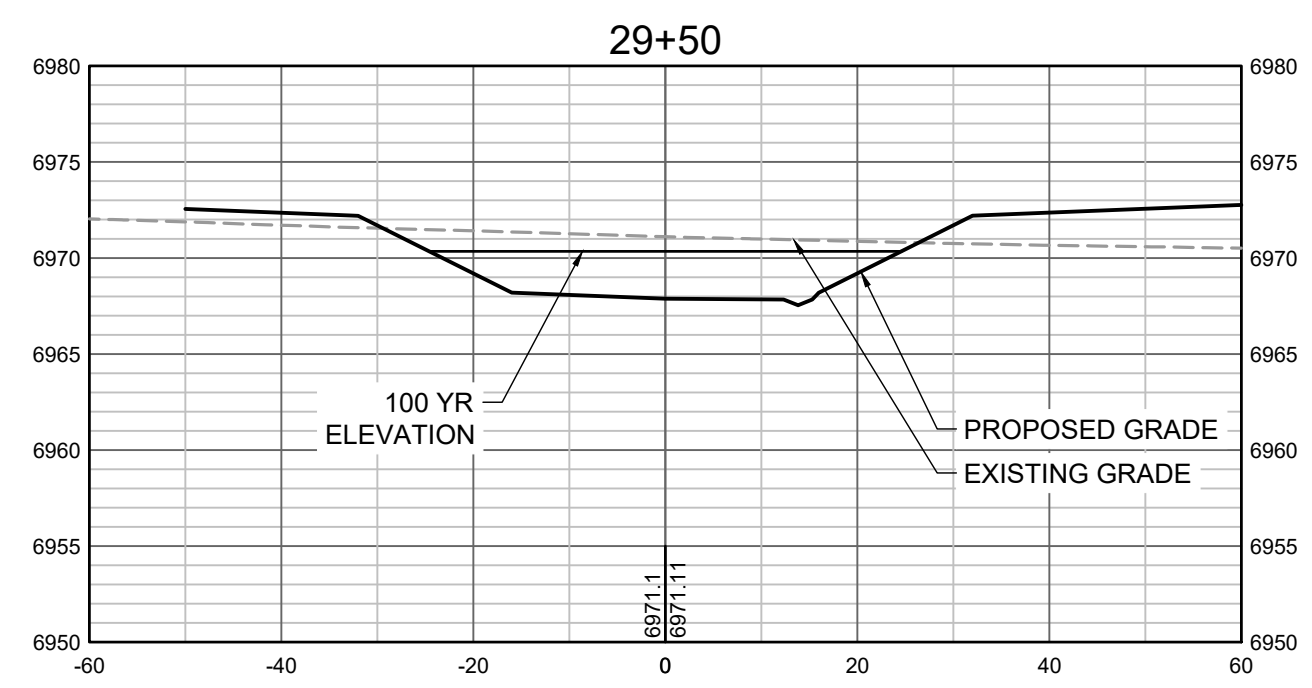
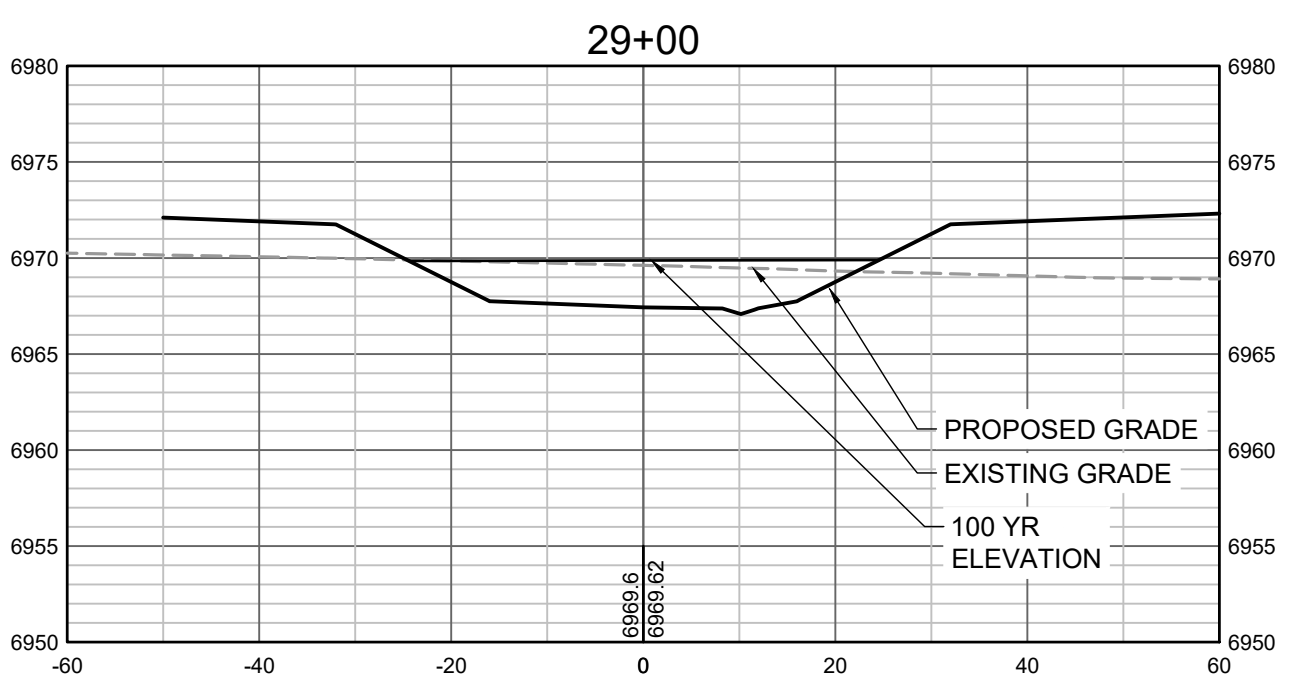
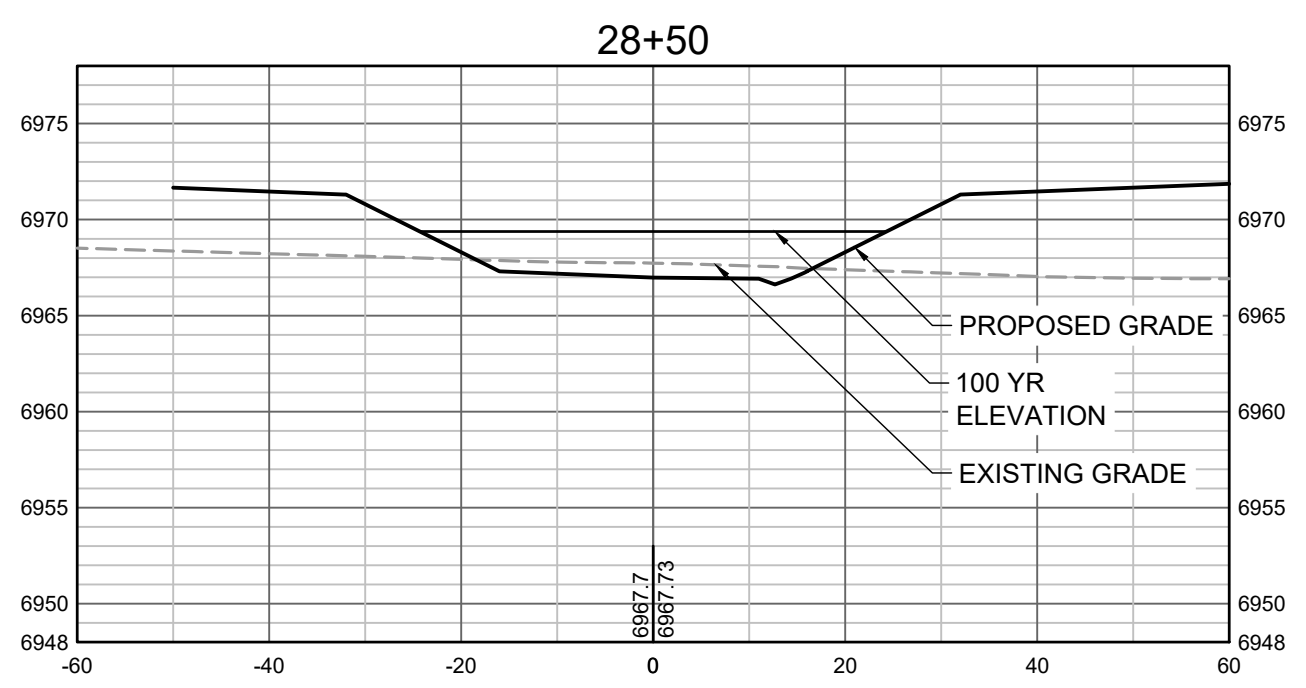
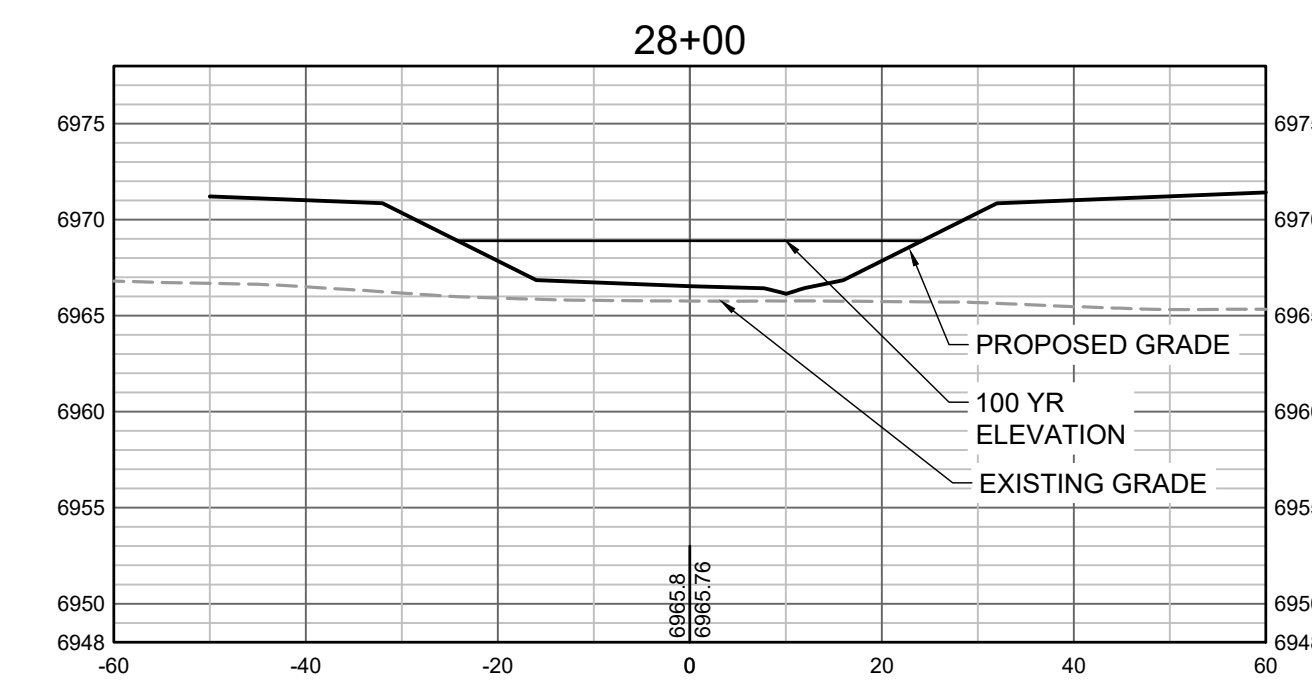
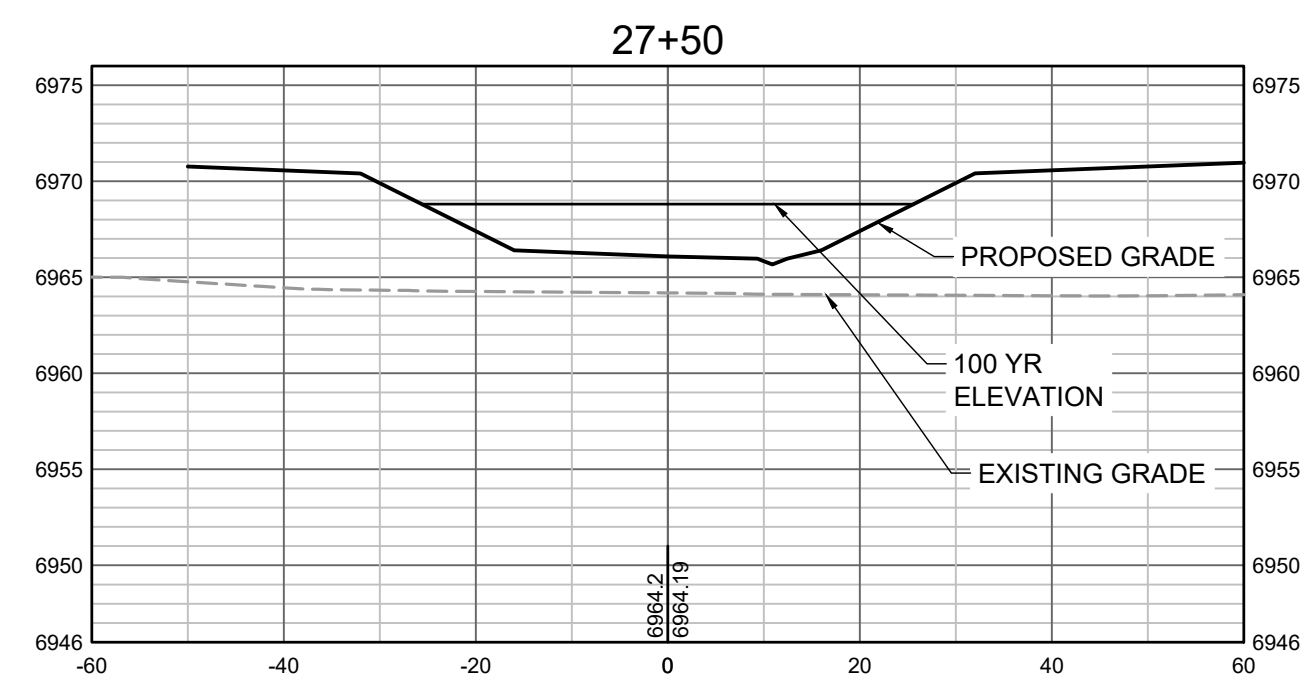
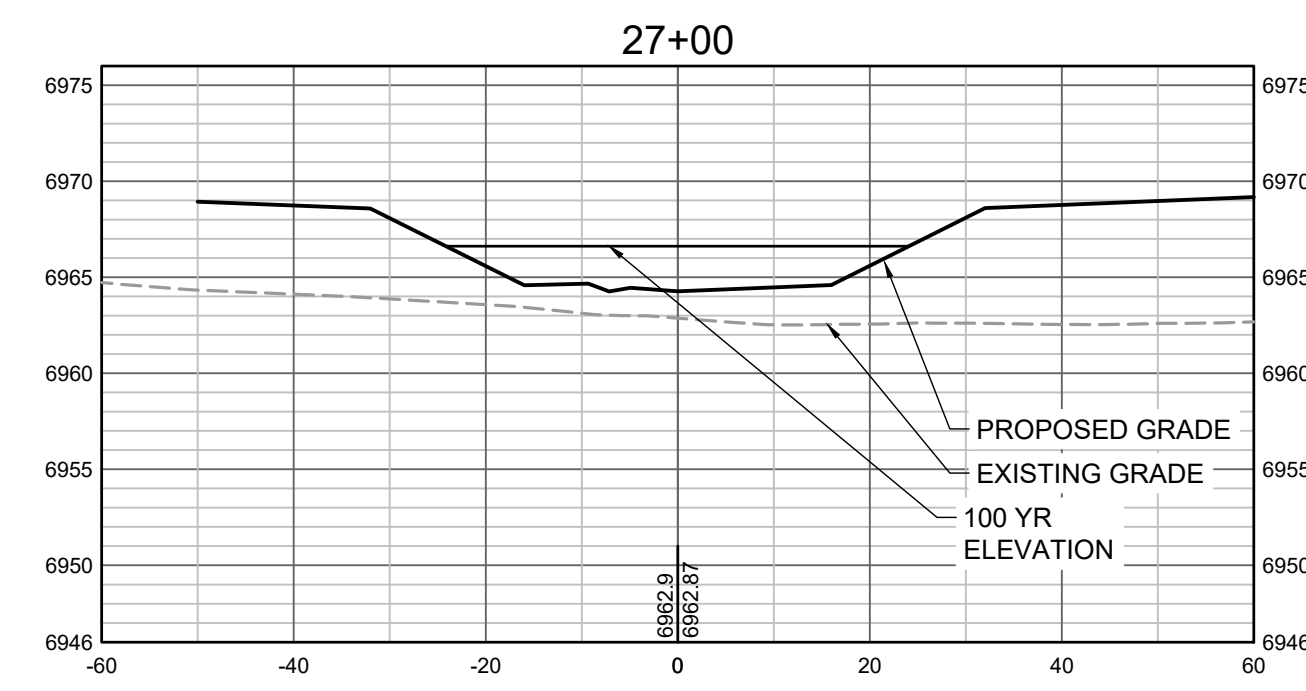


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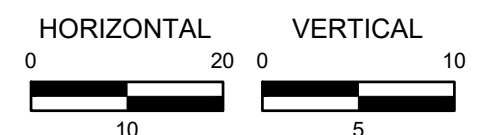
GRANDVIEW RESERVE (DRAINAGE A & B)
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CONSTRUCTION DOCUMENTS
 TRIBUTARY 2 CROSS SECTIONS

SHEET
CS6
36



PROPOSED GRADES TO TIE INTO GRANDVIEW RESERVE FILING 1. REFER TO THE GRANDVIEW RESERVE FILING 1 PLAN SET FOR CONTINUATION OF GRADING THAT IS BEING TIED INTO OUTSIDE OF CHANNEL GRADING LIMITS.



HR GREEN Xrefs: xgs-d-h01

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BAR IS ONE INCH ON OFFICIAL DRAWINGS.
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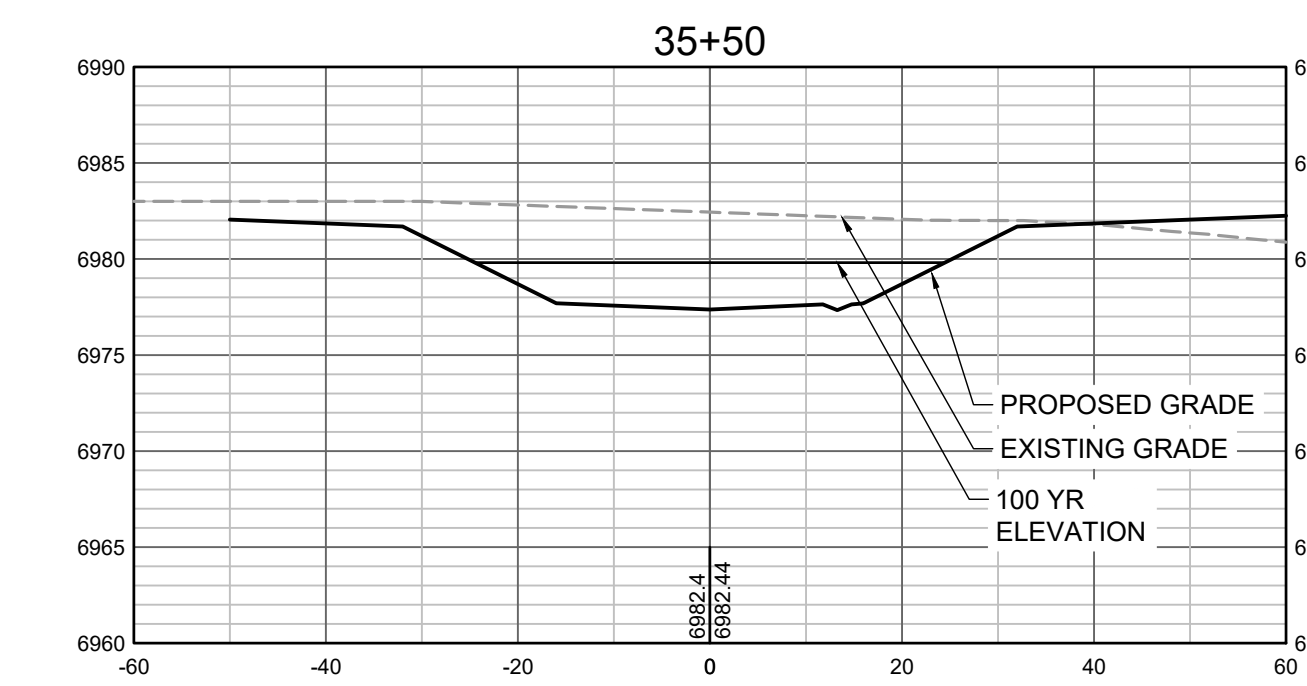
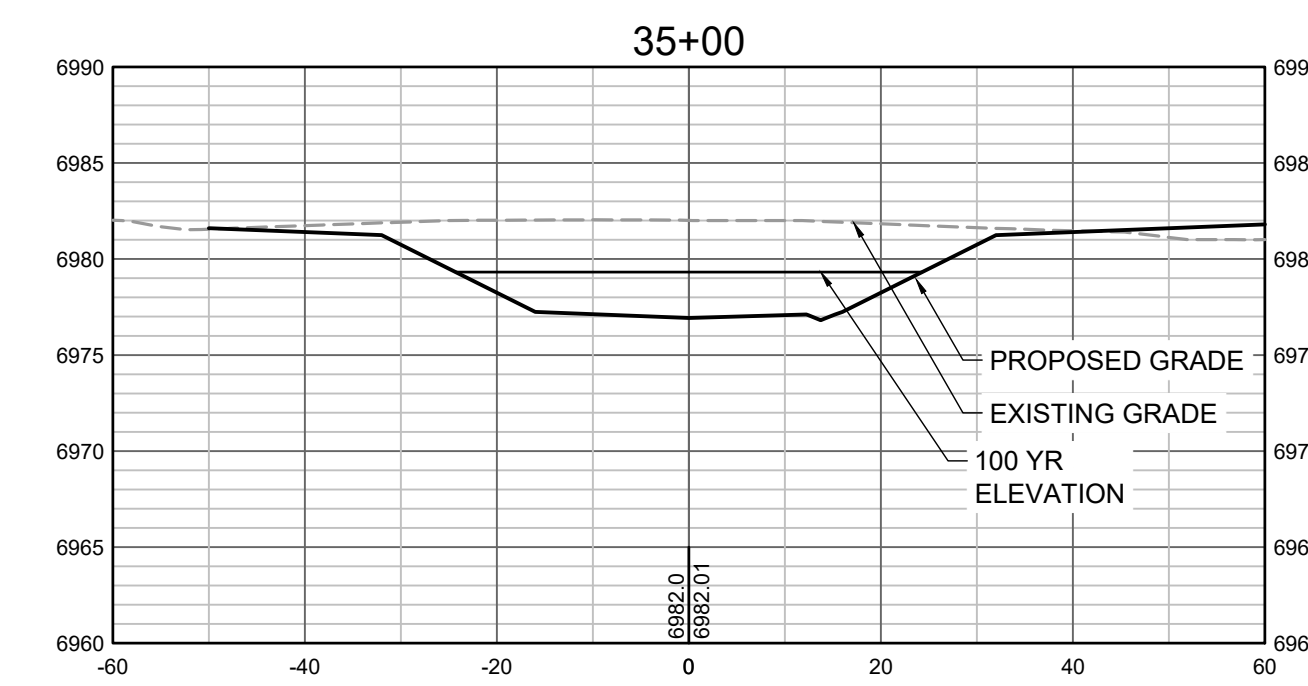
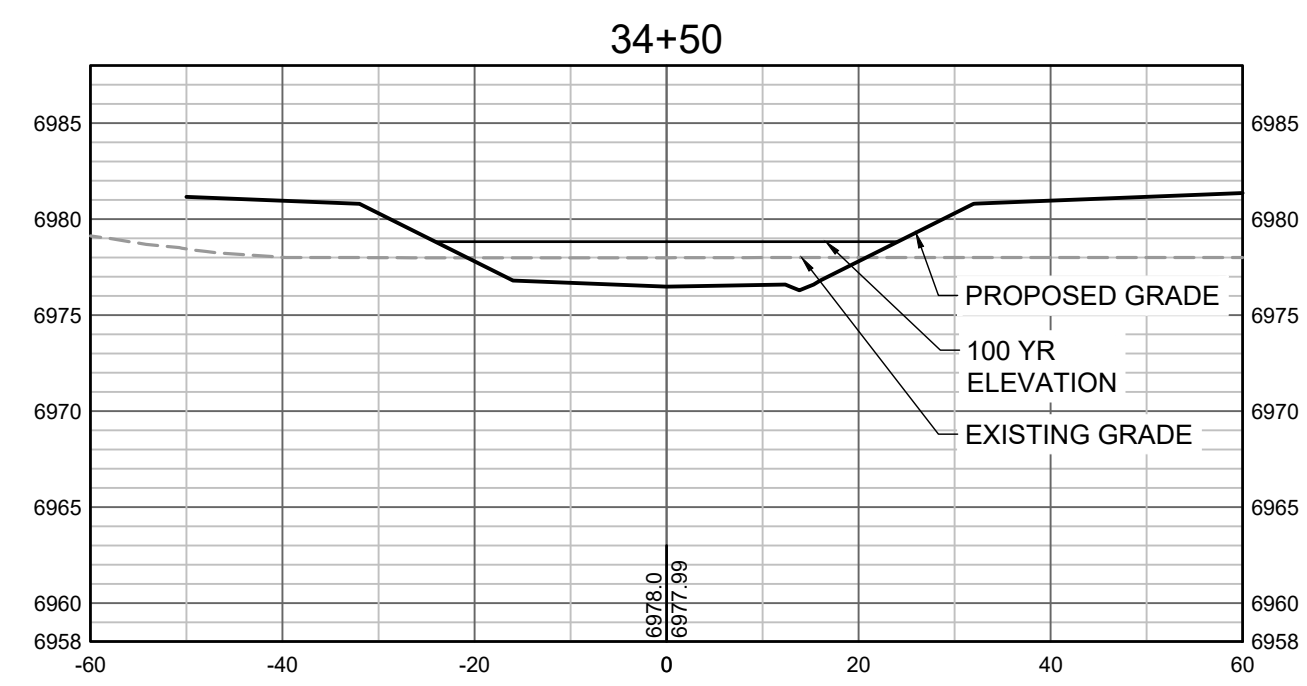
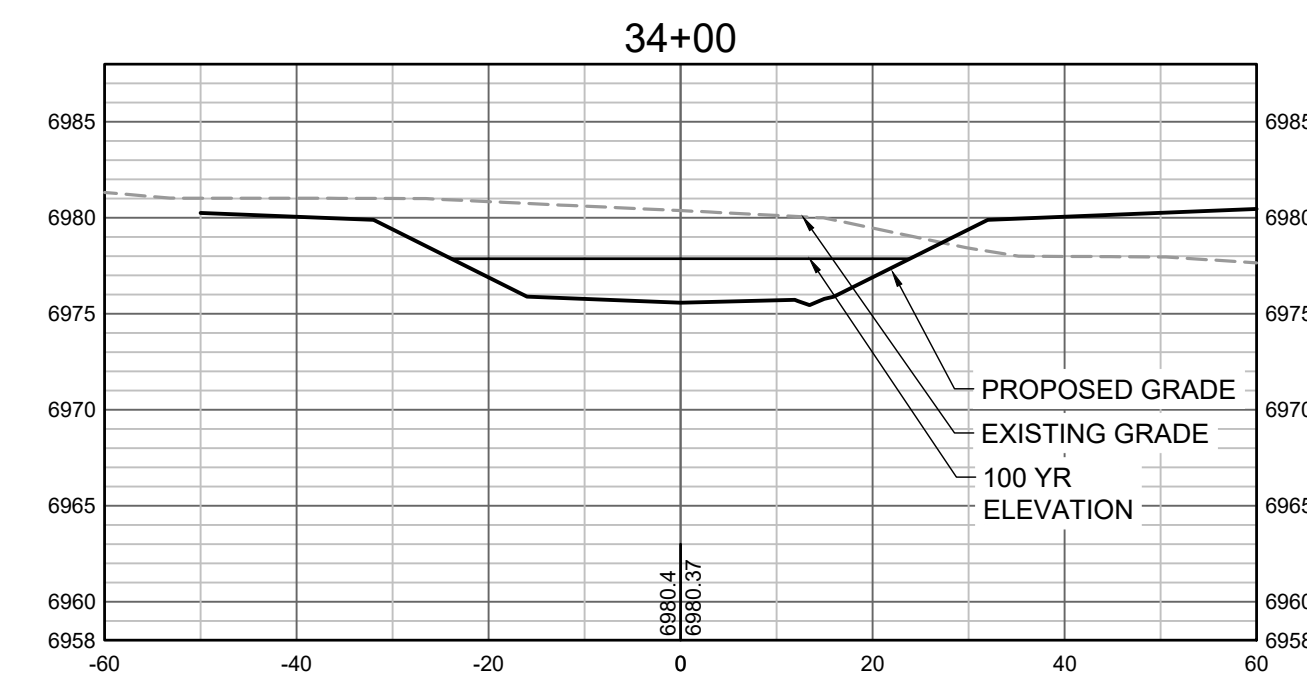
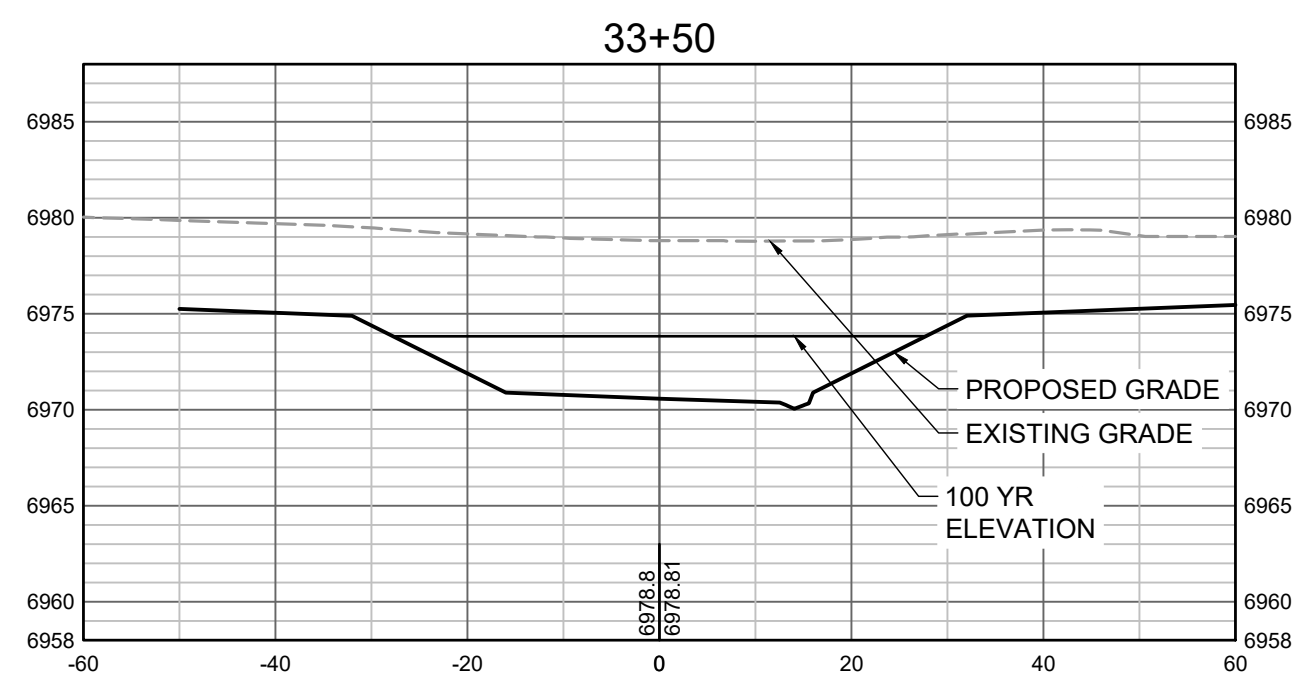
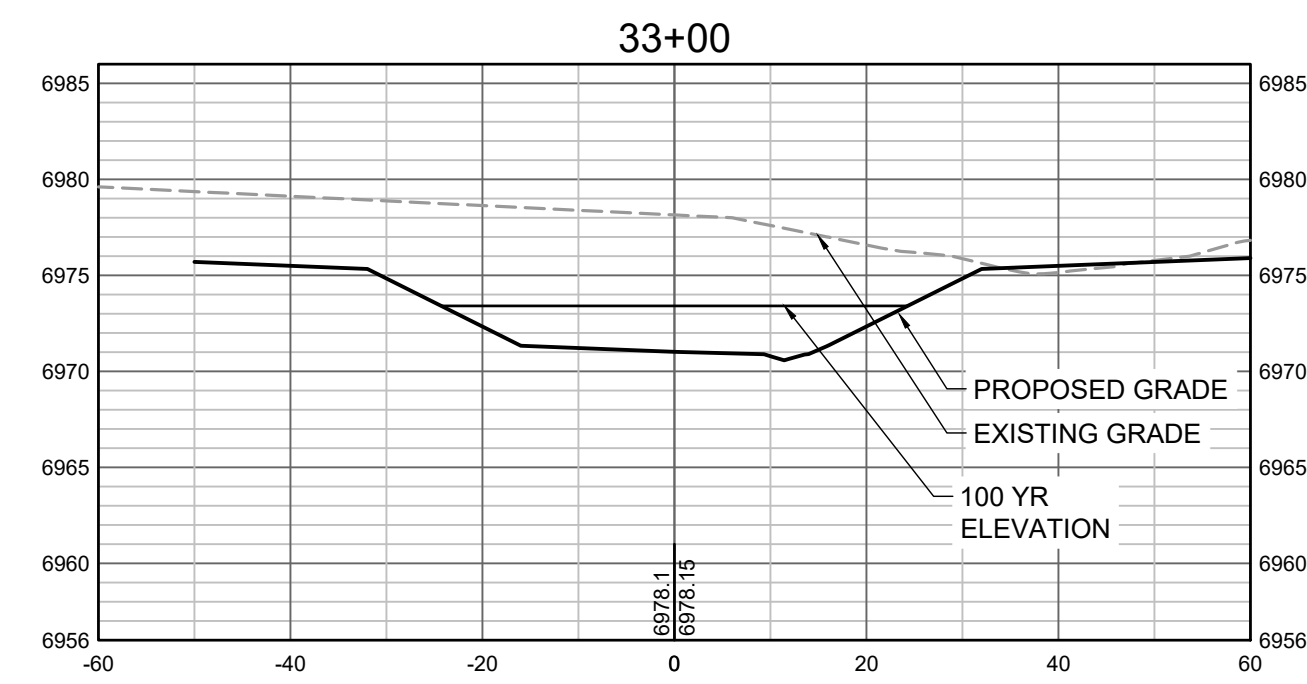
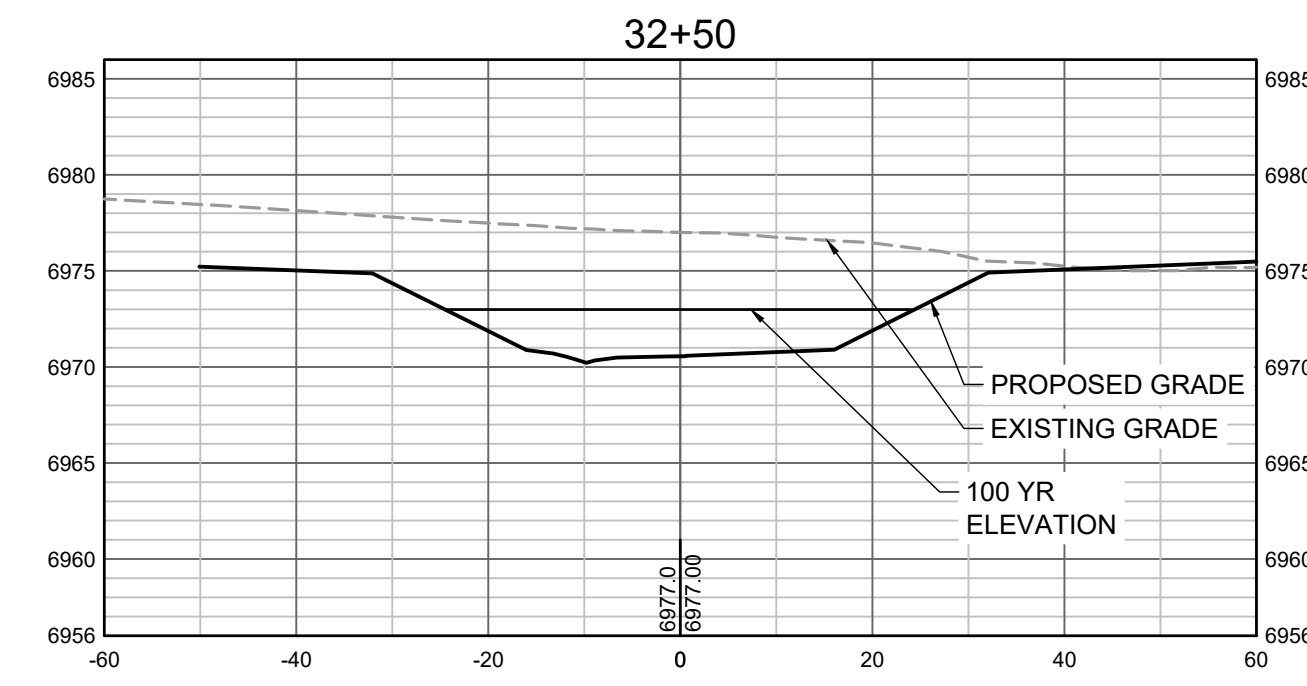
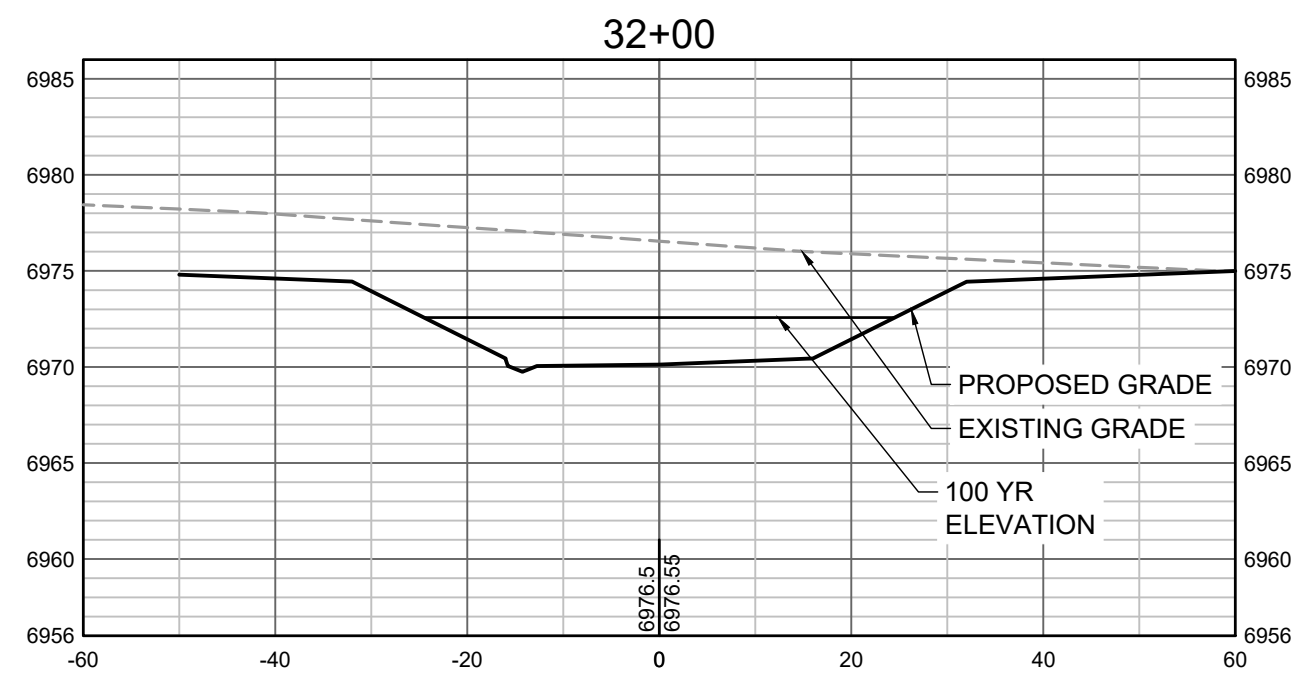
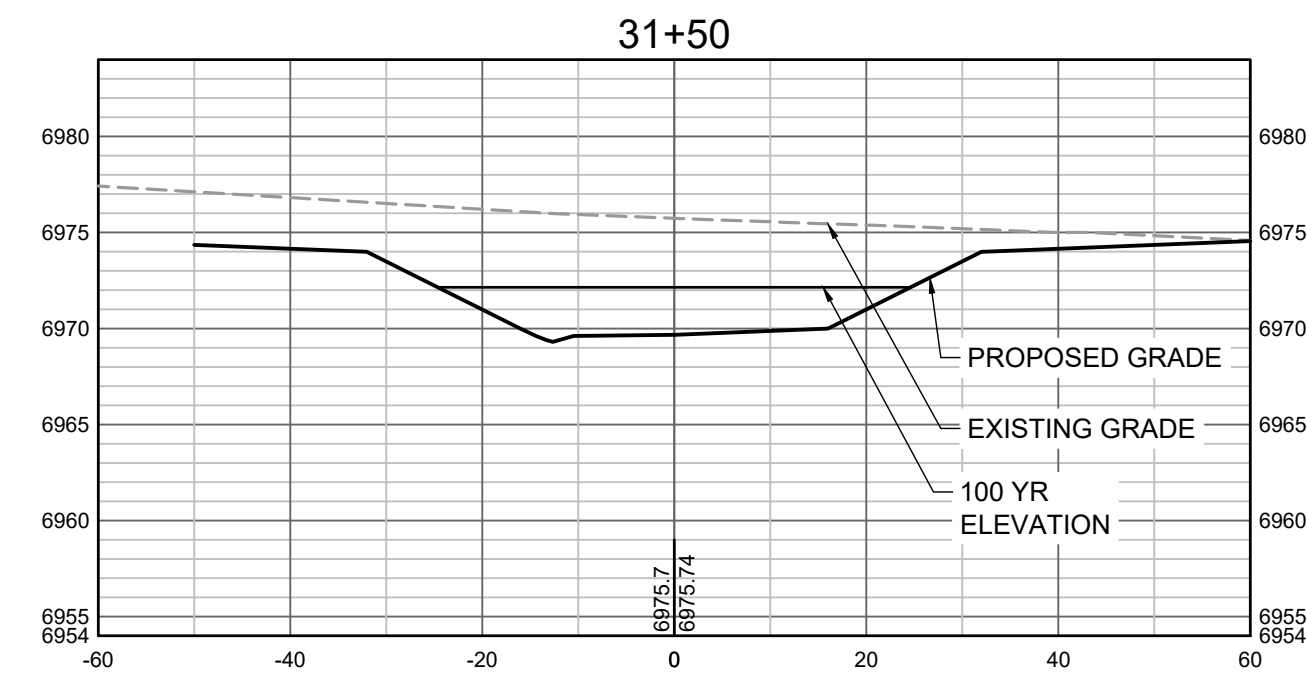


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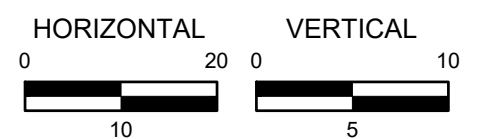
GRANDVIEW RESERVE (DRAINAGE A & B)
DR HORTON
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CONSTRUCTION DOCUMENTS
 TRIBUTARY 2 CROSS SECTIONS

SHEET
CS7
37



PROPOSED GRADES TO TIE INTO GRANDVIEW RESERVE FILING 1. REFER TO THE GRANDVIEW RESERVE FILING 1 PLAN SET FOR CONTINUATION OF GRADING THAT IS BEING TIED INTO OUTSIDE OF CHANNEL GRADING LIMITS.



HR GREEN Xrefs: xgs-1-dh01

DRAWN BY: TBI JOB DATE: 3/22/2023
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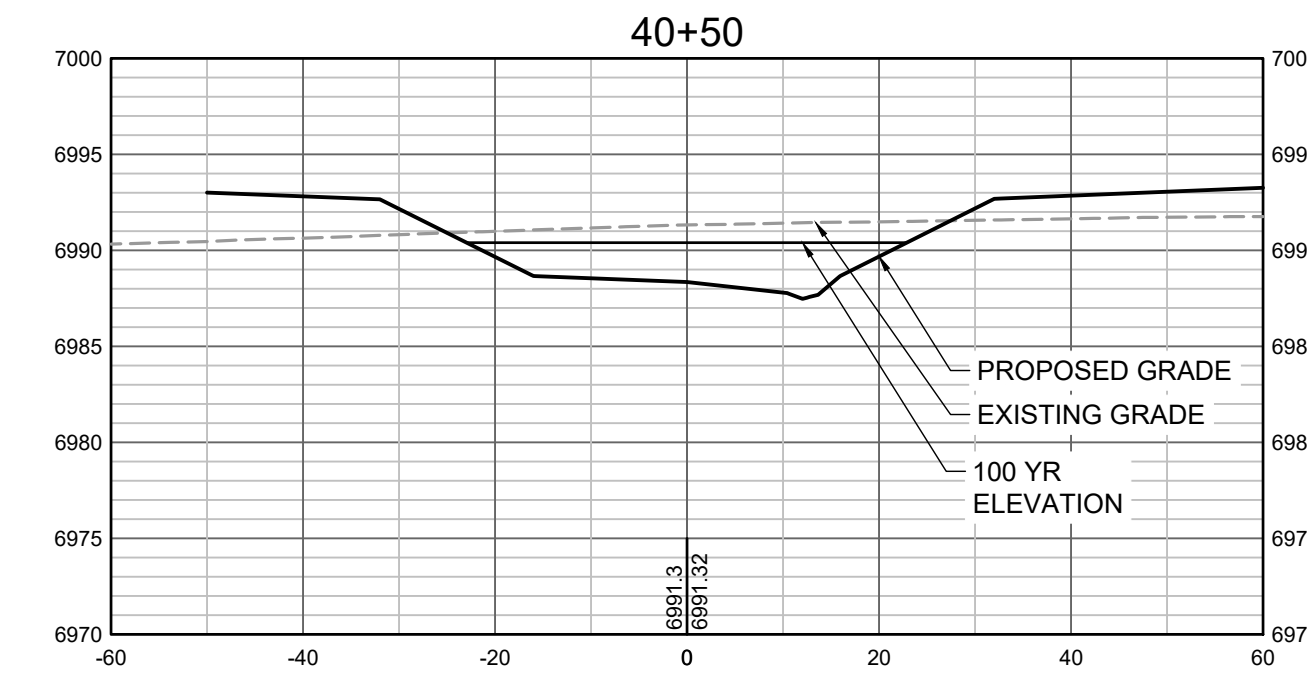
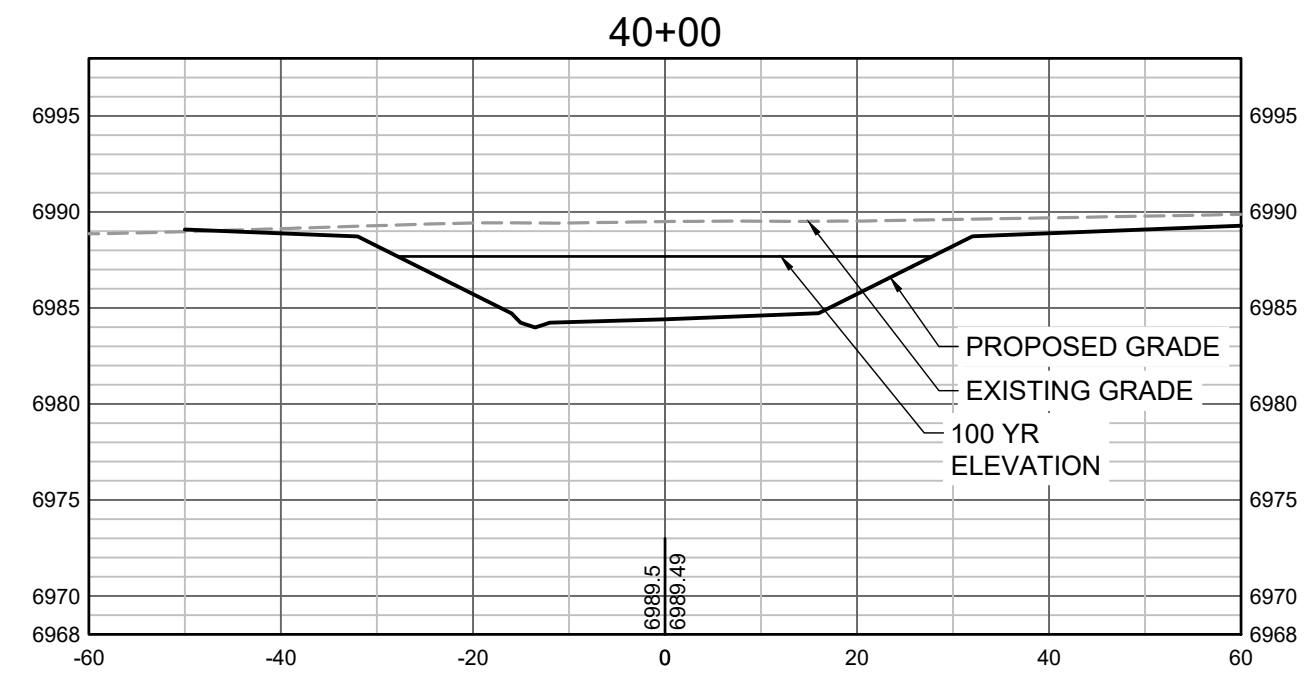
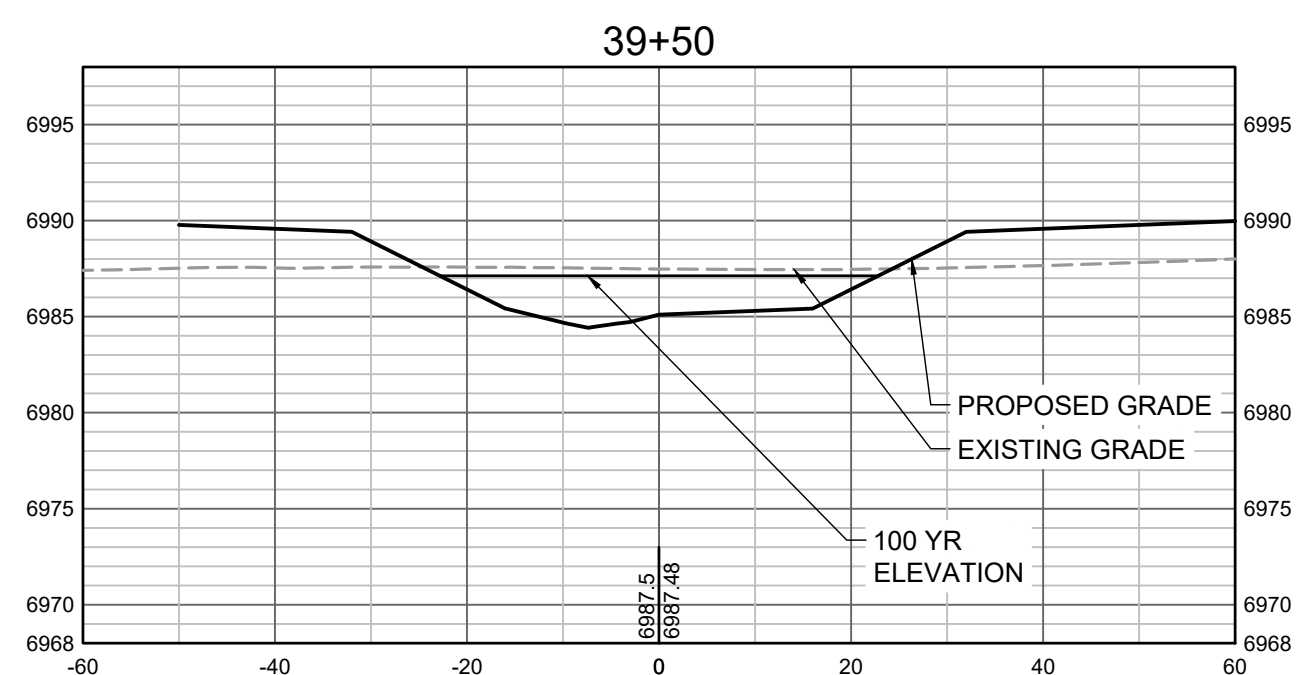
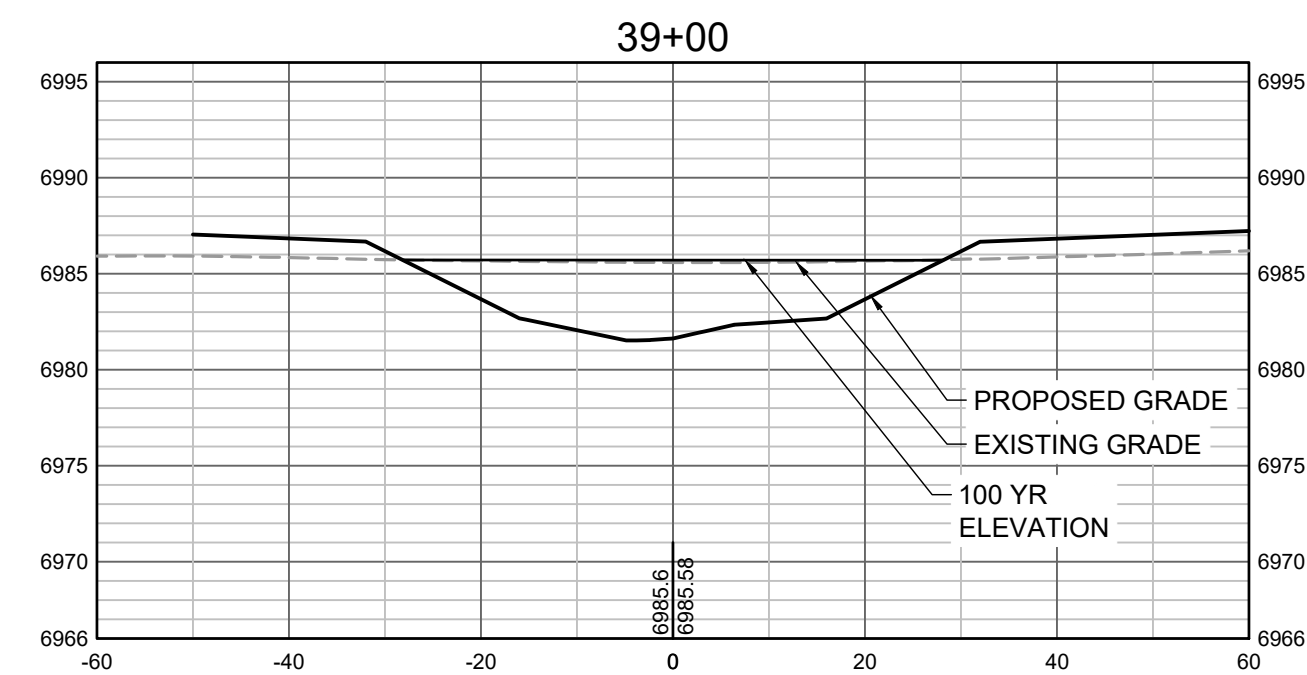
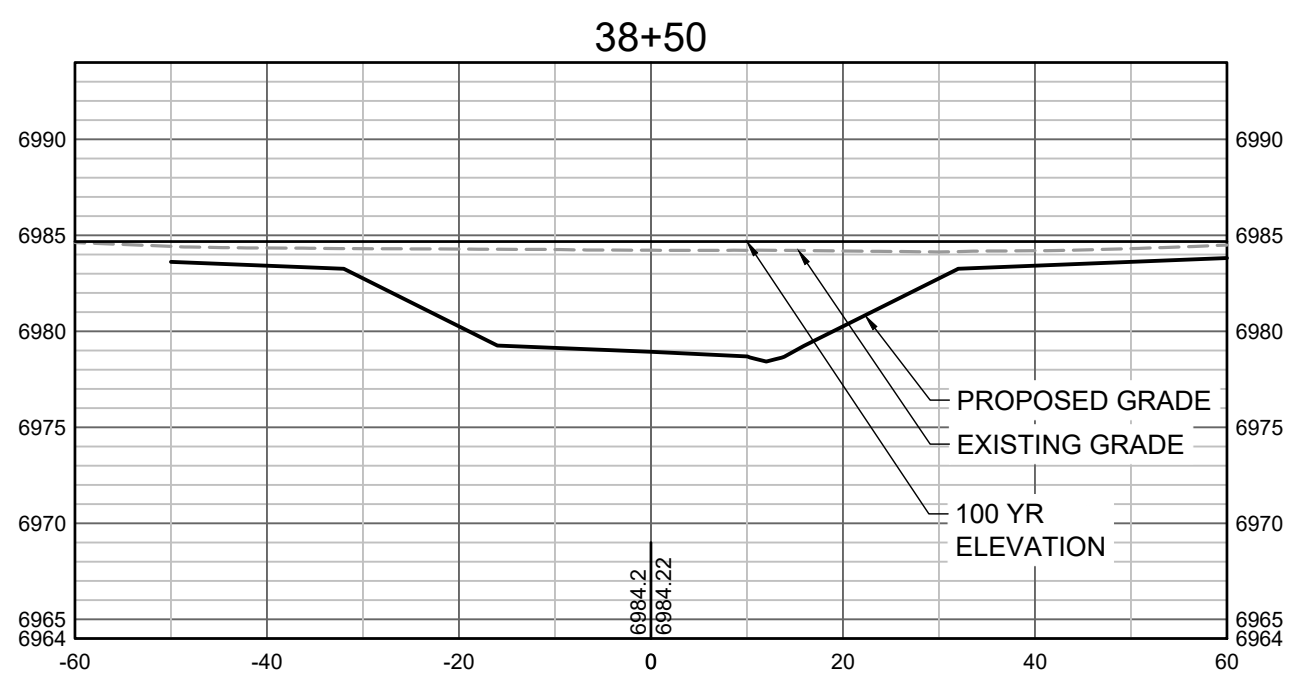
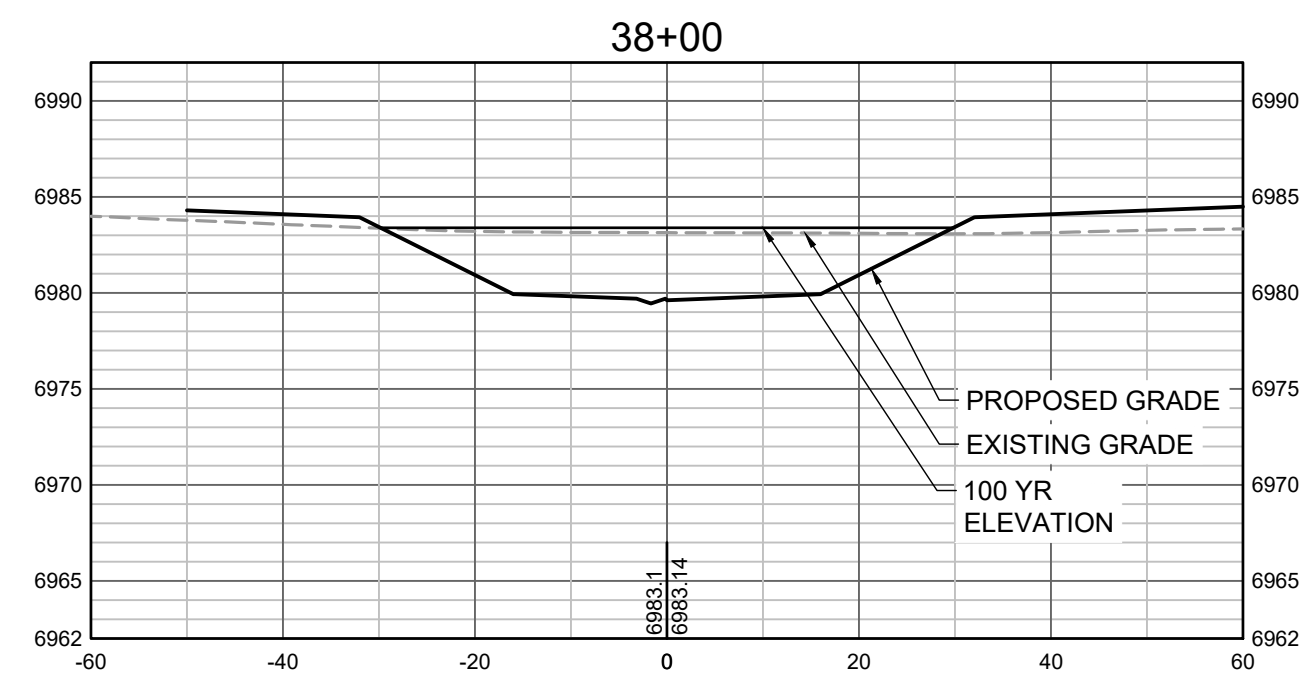
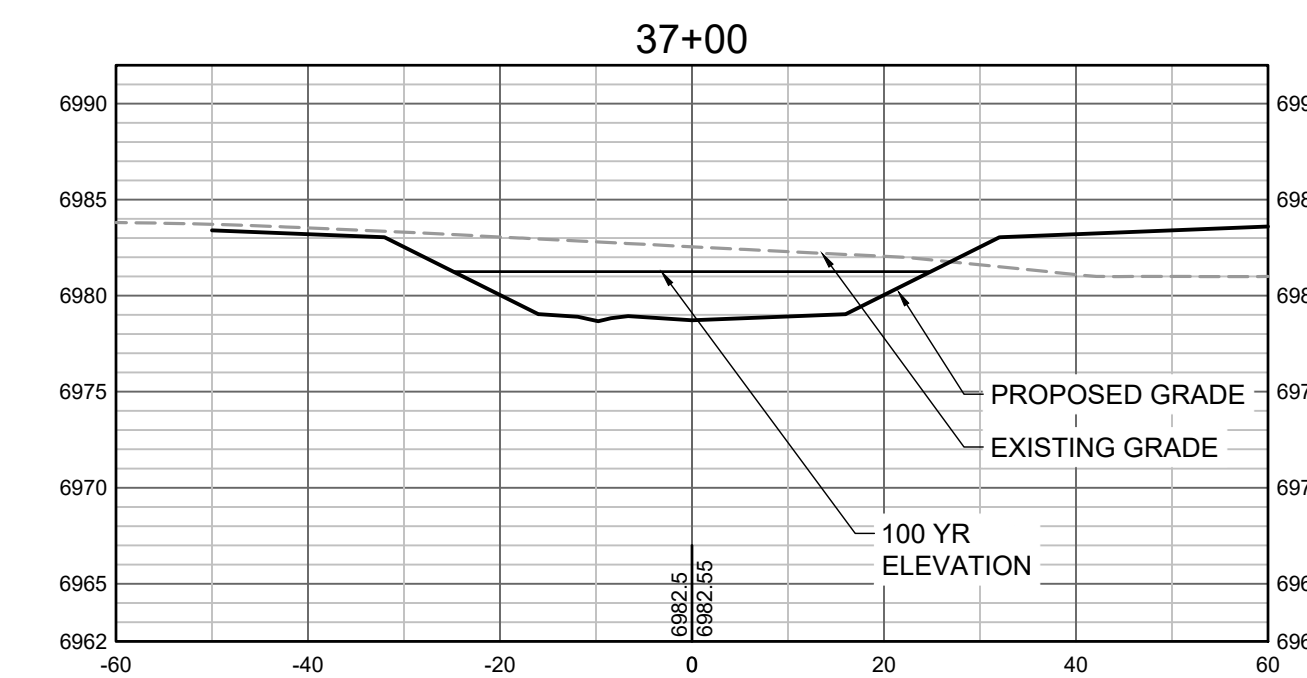
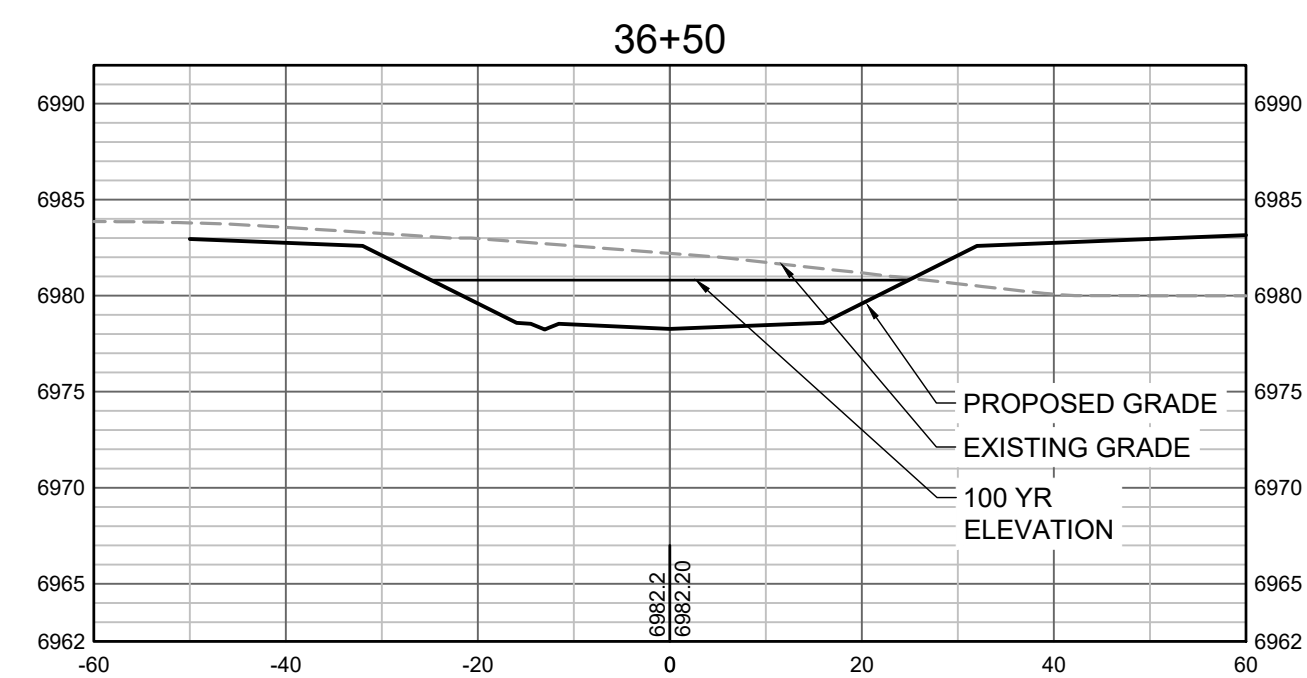
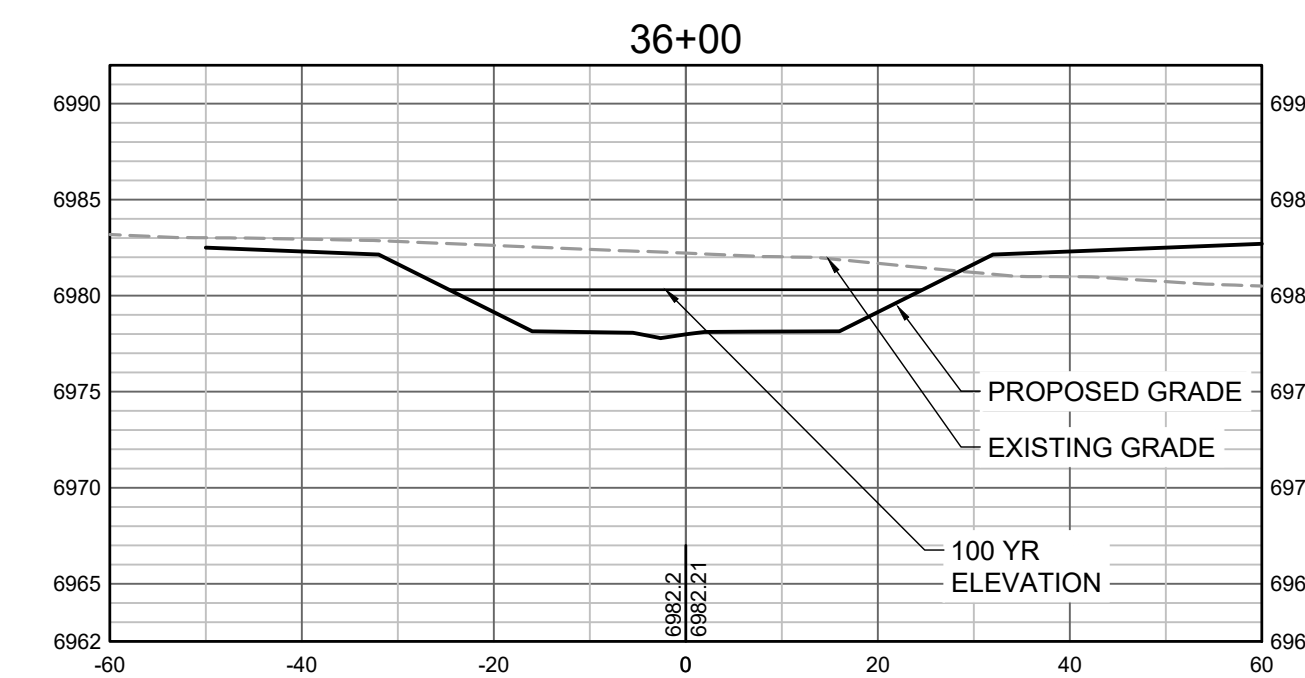


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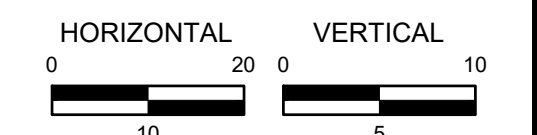
GRANDVIEW RESERVE (DRAINAGE A & B)
DR HORTON
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CONSTRUCTION DOCUMENTS
 TRIBUTARY 2 CROSS SECTIONS

SHEET
CS8
38



PROPOSED GRADES TO TIE INTO GRANDVIEW RESERVE FILING 1. REFER TO THE GRANDVIEW RESERVE FILING 1 PLAN SET FOR CONTINUATION OF GRADING THAT IS BEING TIED INTO OUTSIDE OF CHANNEL GRADING LIMITS.



HR GREEN Xrefs: xgs-1-dh01

DRAWN BY: TBI JOB DATE: 3/22/2023
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 CAD FILE: J:\2020\201662.03\CAD\DWG\C\CROSS SECTIONS

BAR IS ONE INCH ON OFFICIAL DRAWINGS.
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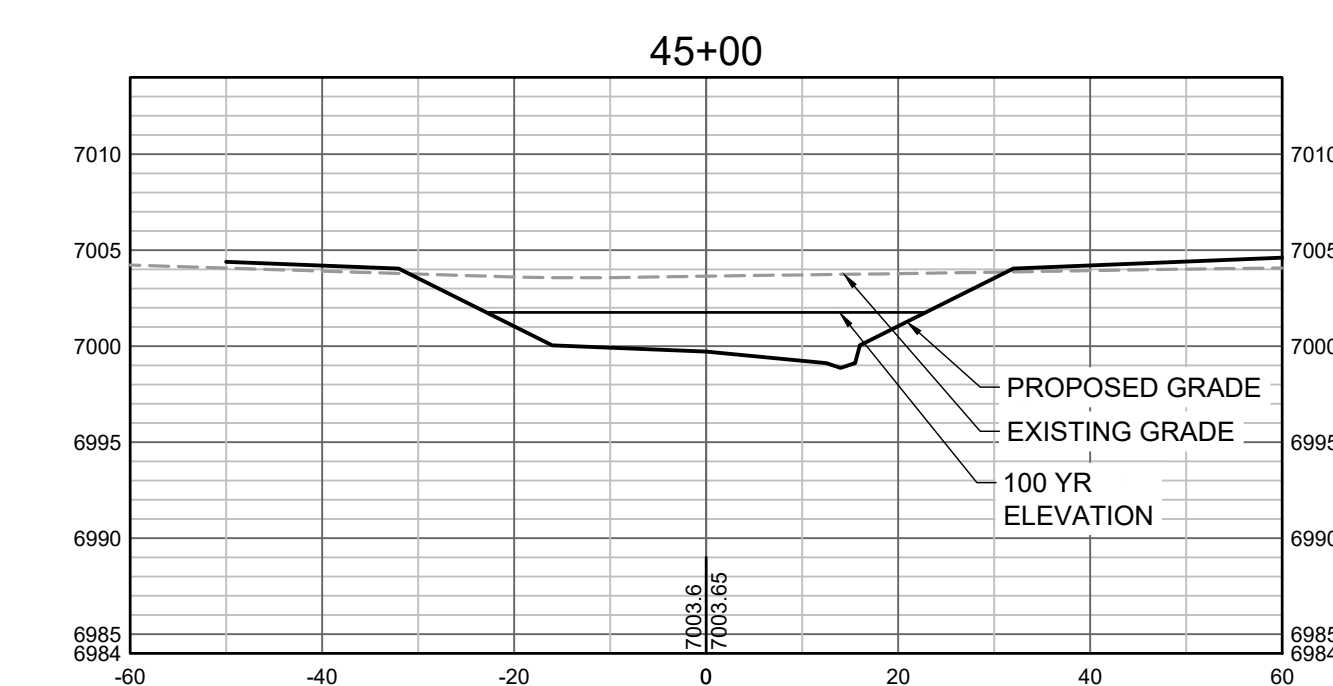
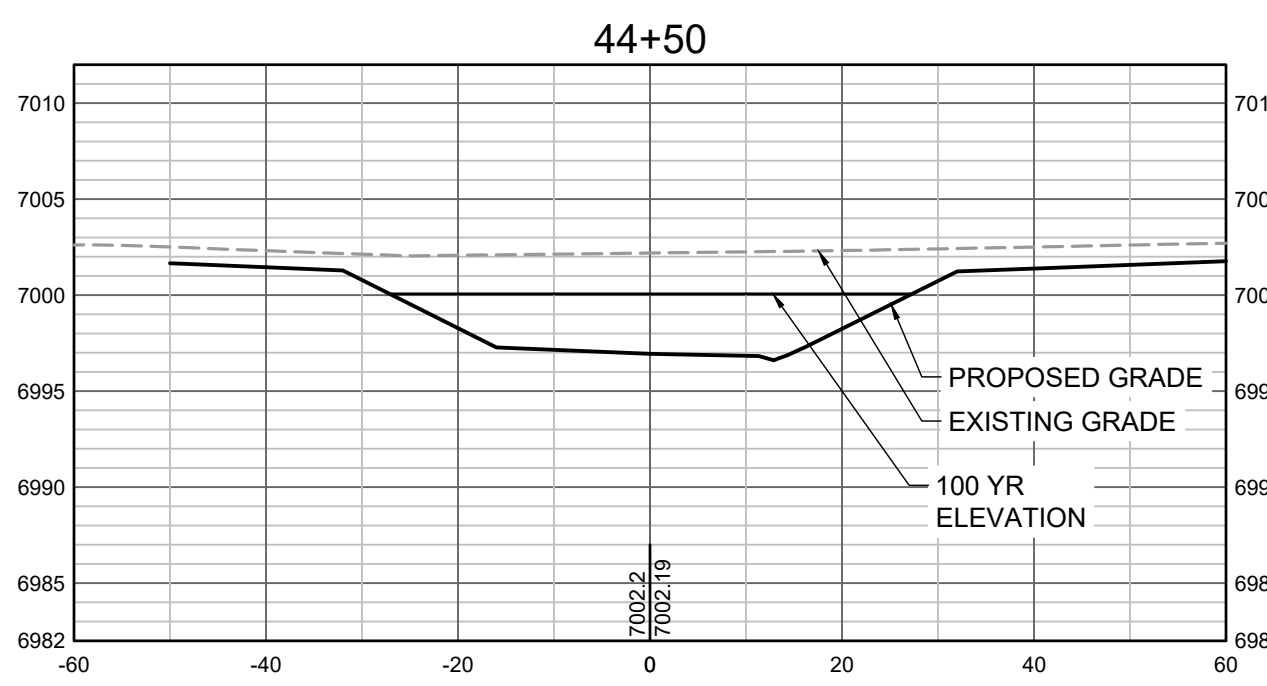
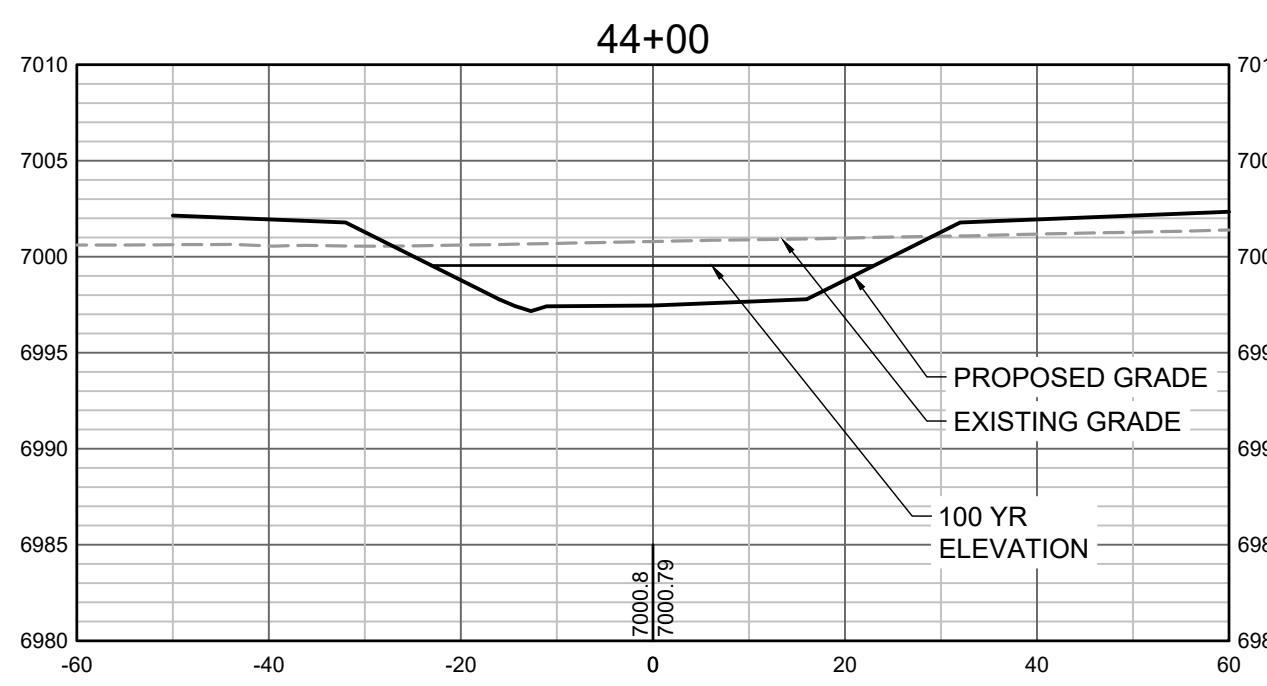
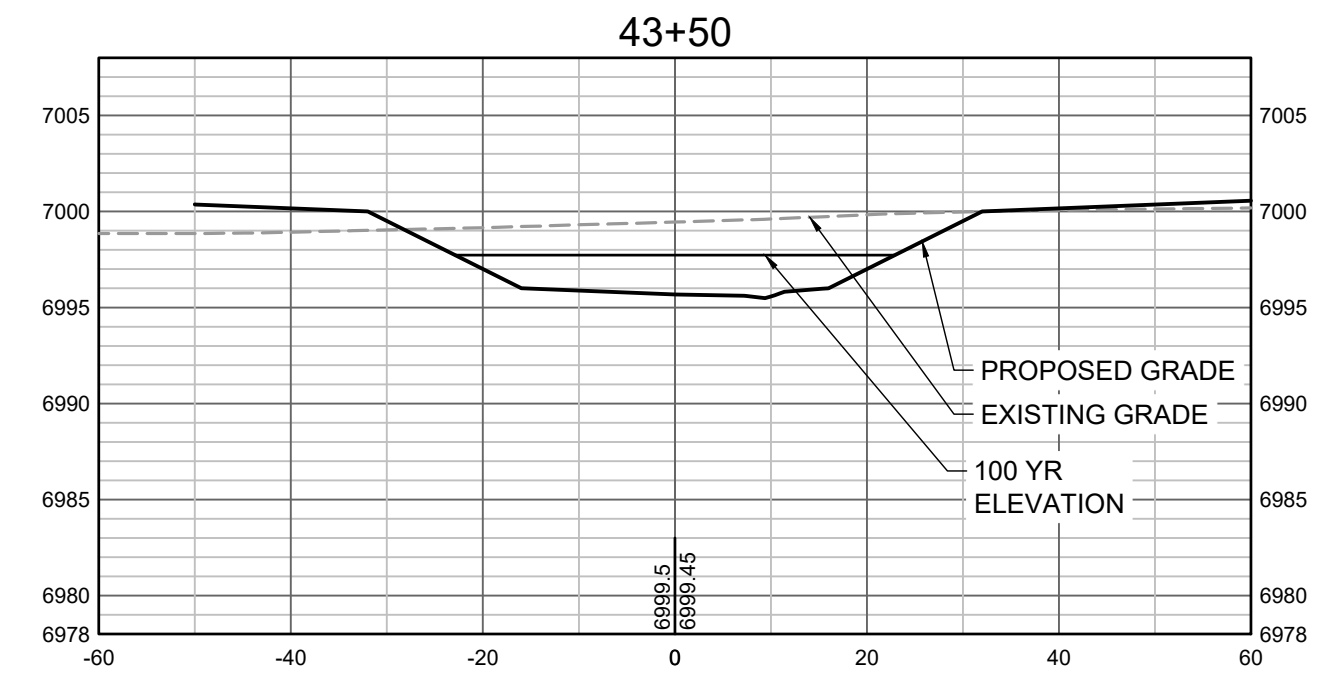
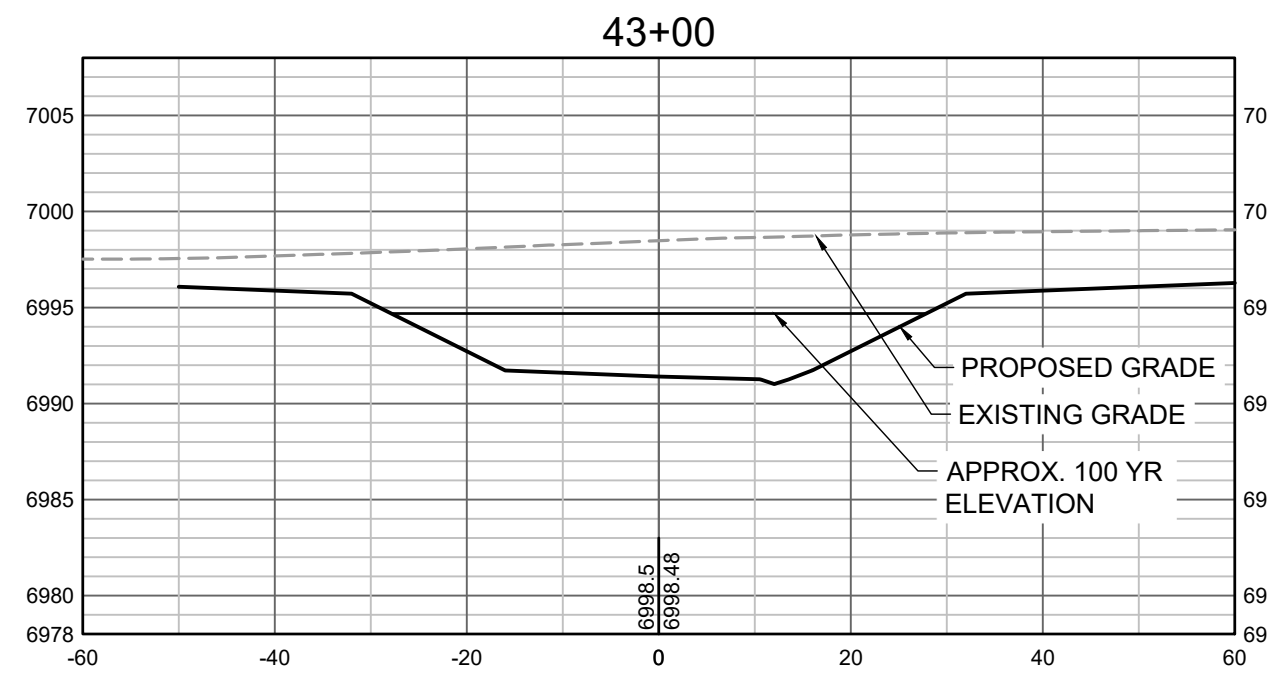
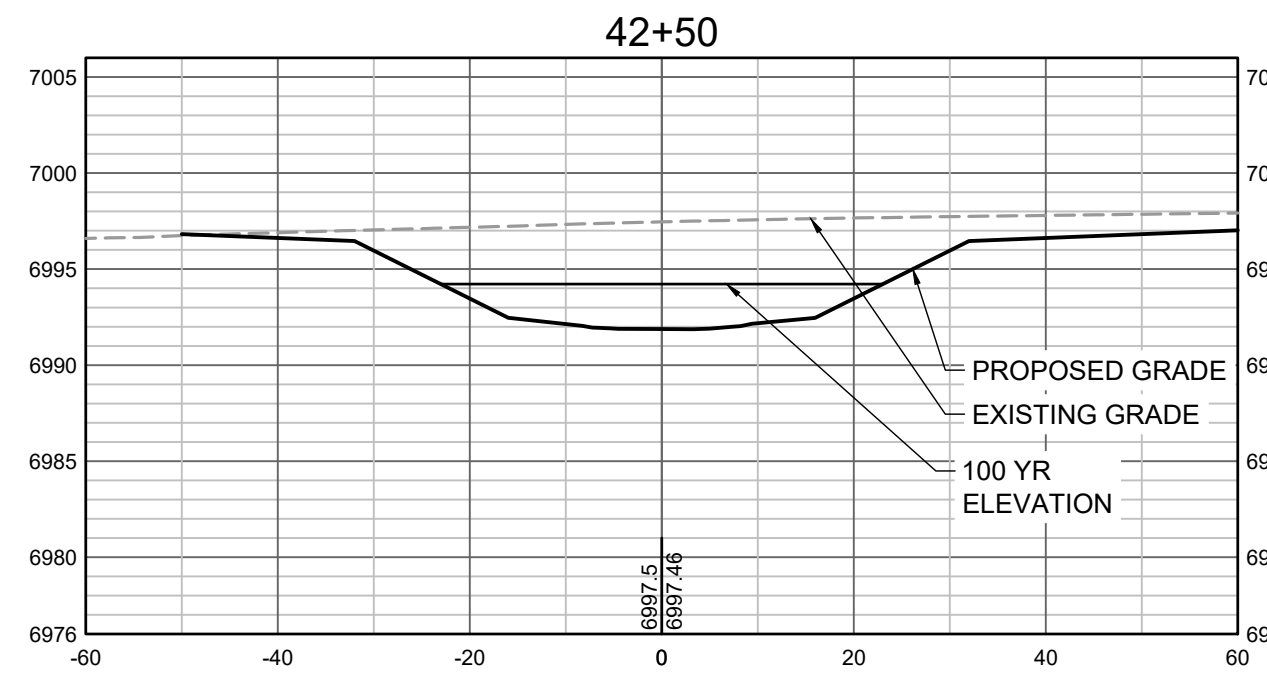
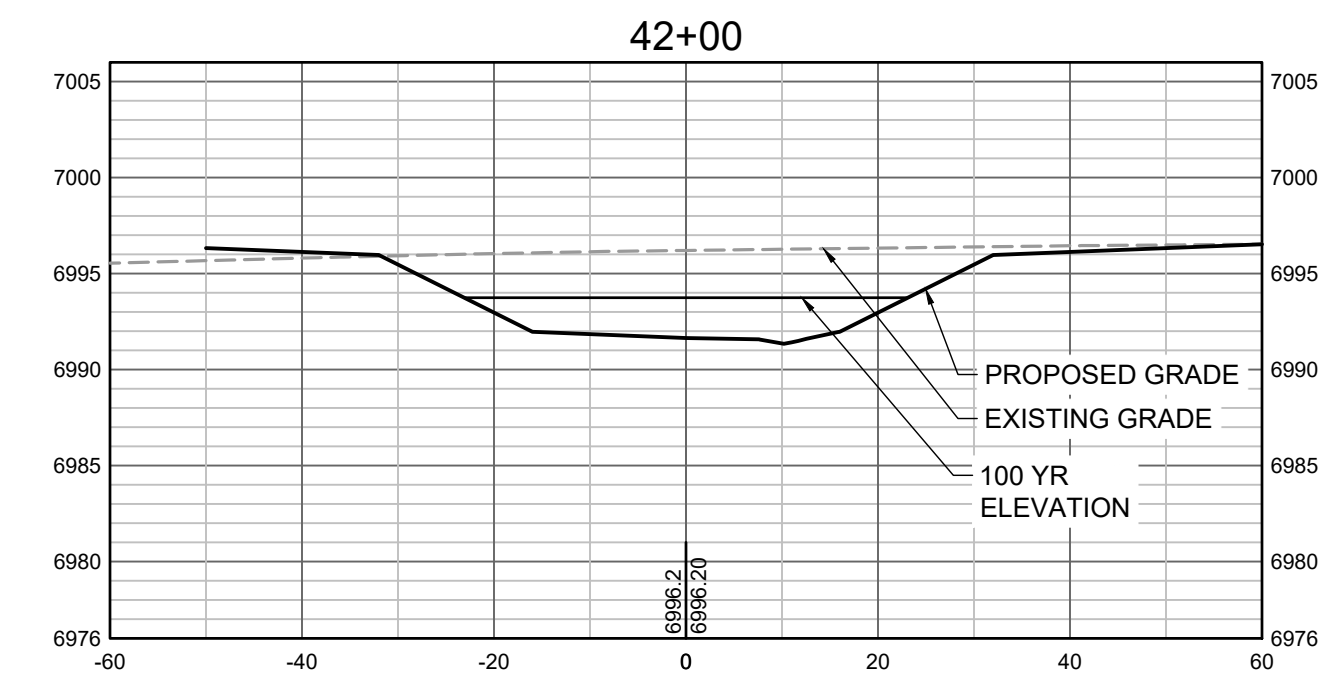
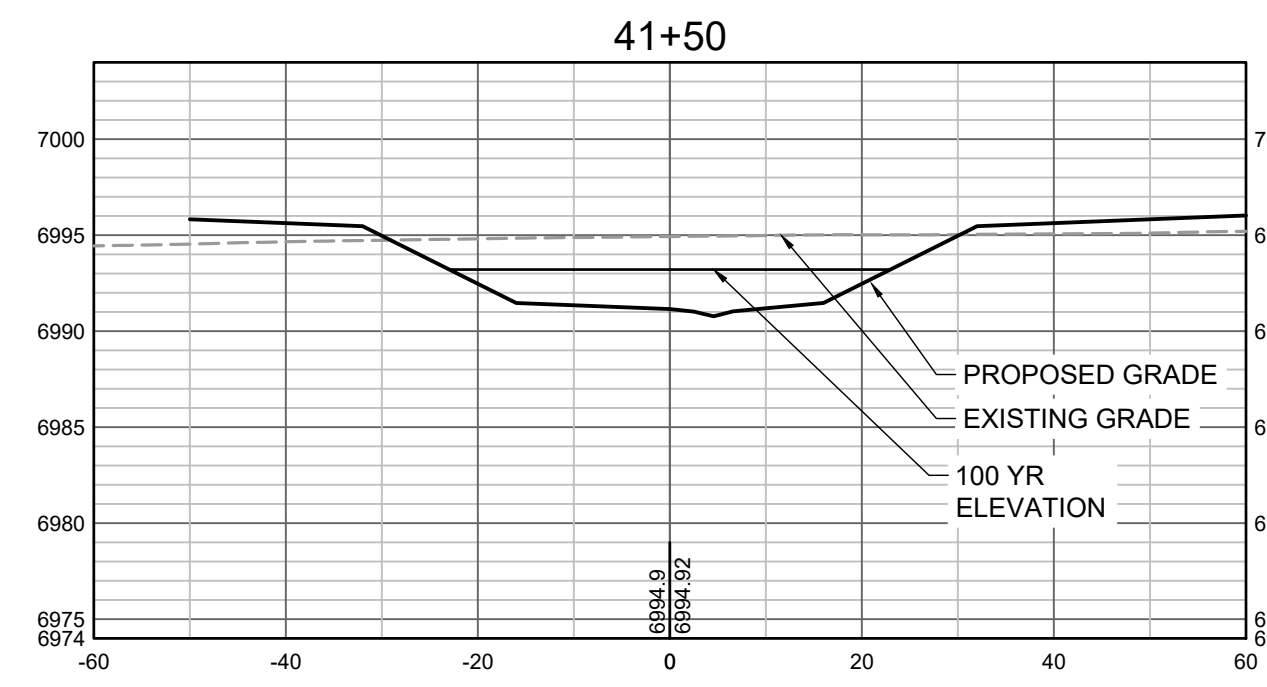
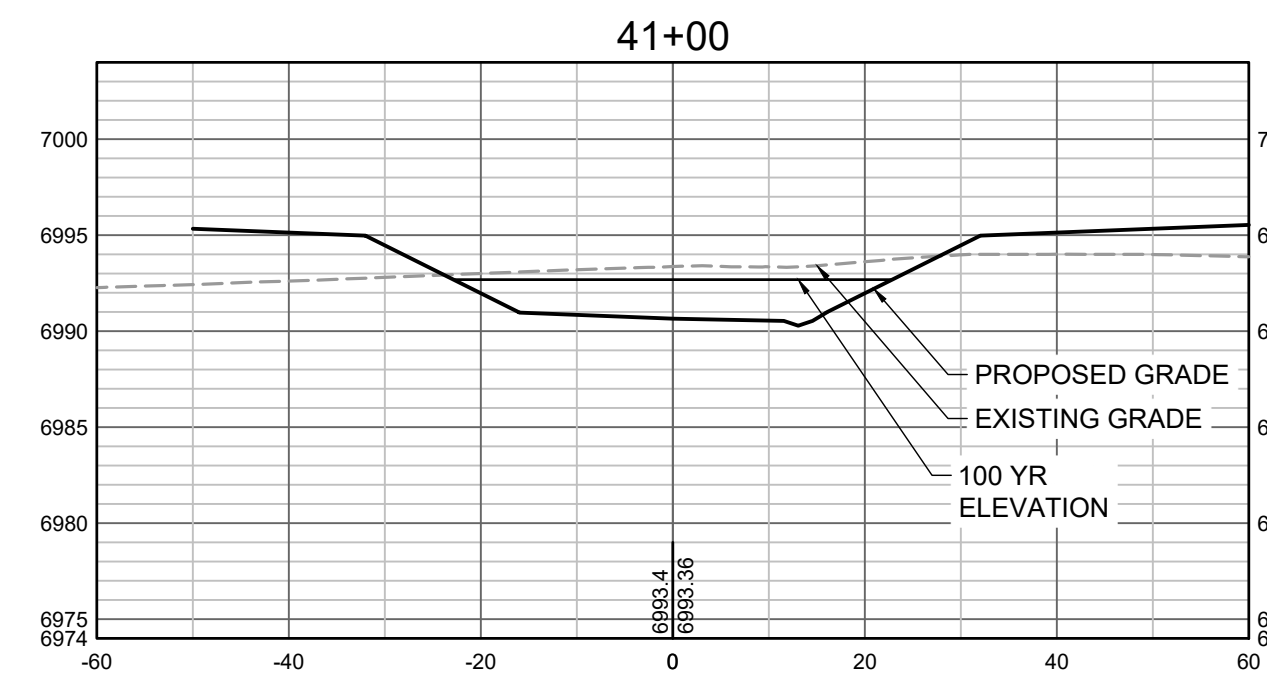
NO.	DATE	BY	REVISION DESCRIPTION

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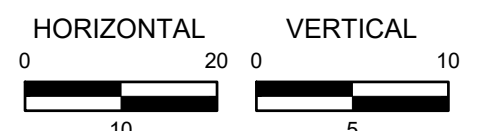
GRANDVIEW RESERVE (DRAINAGE A & B)
DR HORTON
 FALCON, COLORADO

CONSTRUCTION DOCUMENTS
 TRIBUTARY 2 CROSS SECTIONS

SHEET
CS9
39



PROPOSED GRADES TO TIE INTO GRANDVIEW RESERVE FILING 1. REFER TO THE GRANDVIEW RESERVE FILING 1 PLAN SET FOR CONTINUATION OF GRADING THAT IS BEING TIED INTO OUTSIDE OF CHANNEL GRADING LIMITS.



HR GREEN Xrefs: xgs-1-dh01

DRAWN BY: TBI JOB DATE: 3/22/2023
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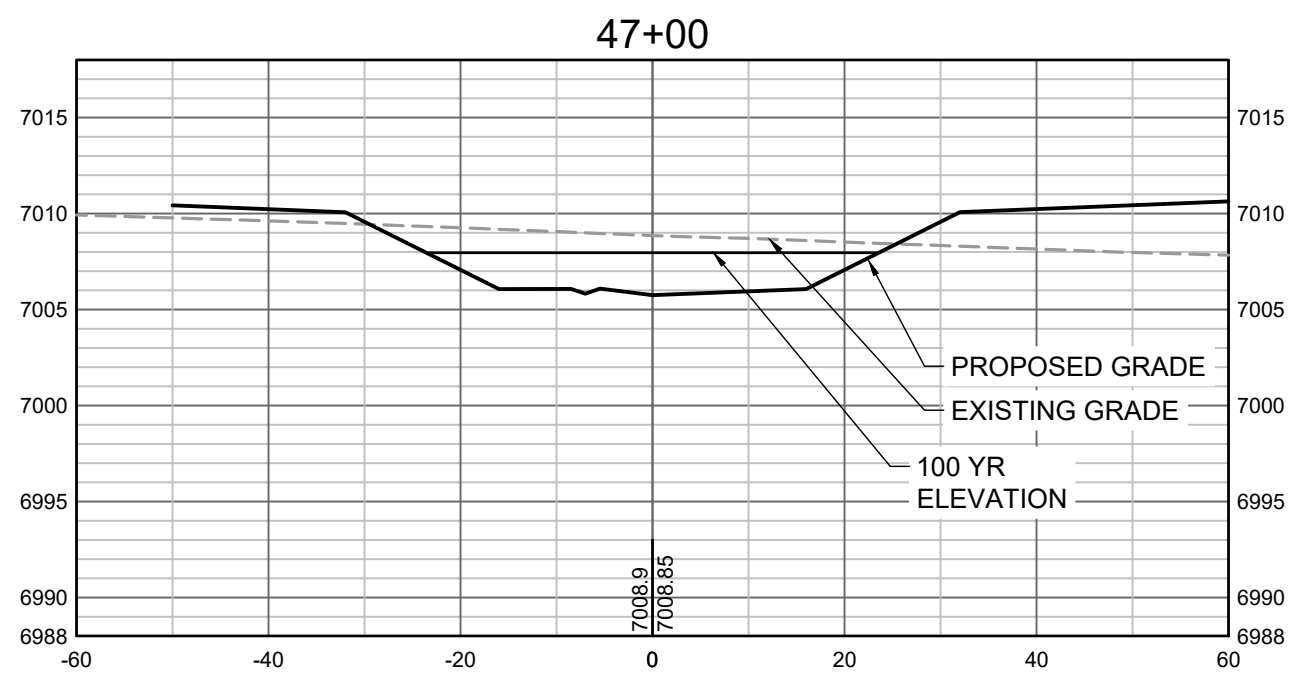
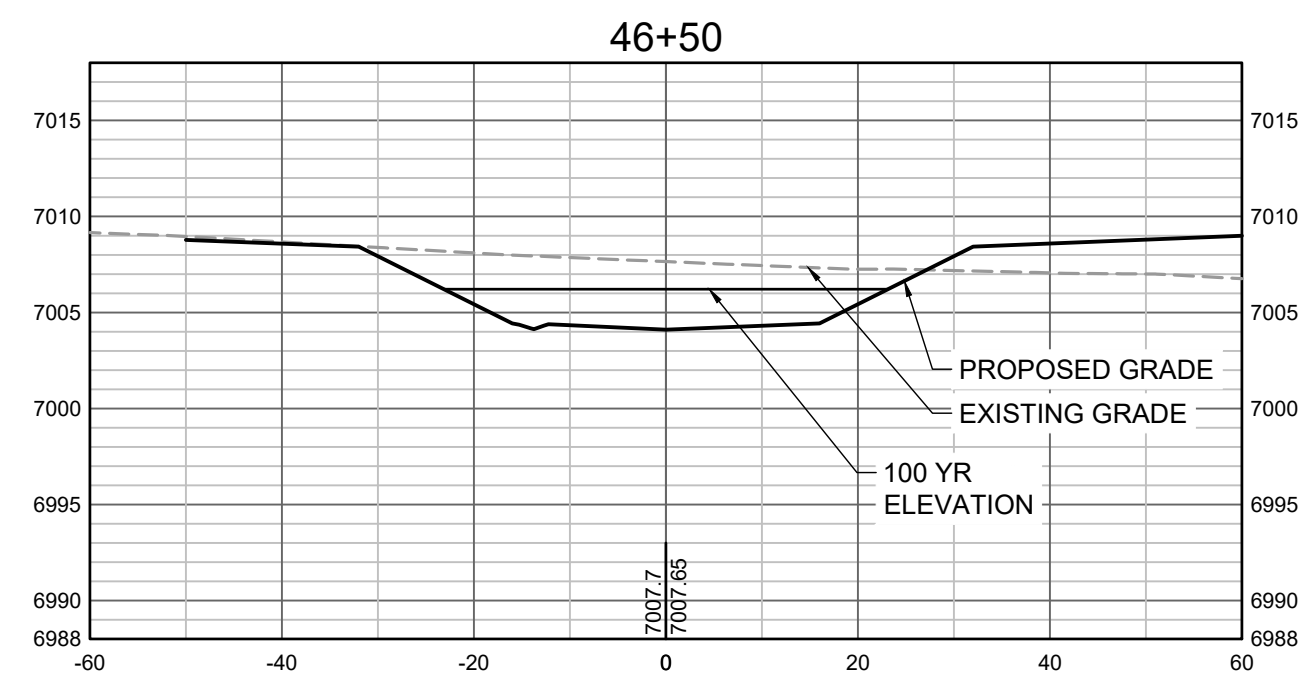
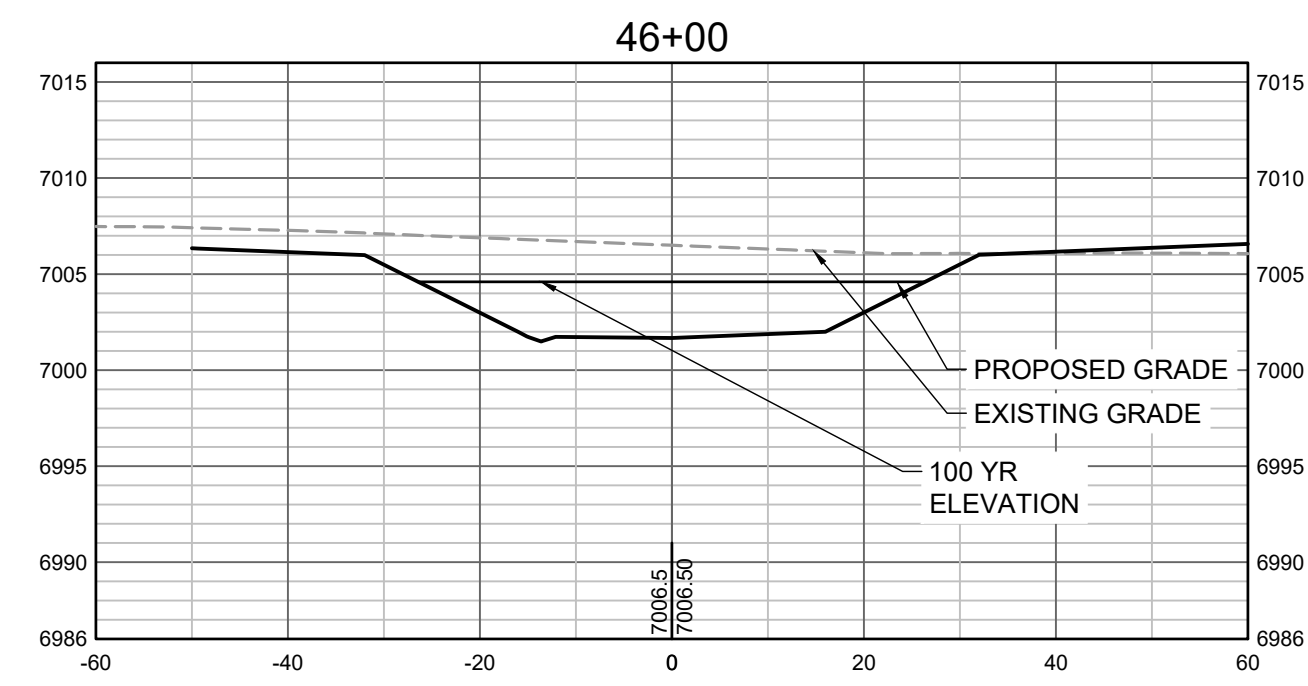
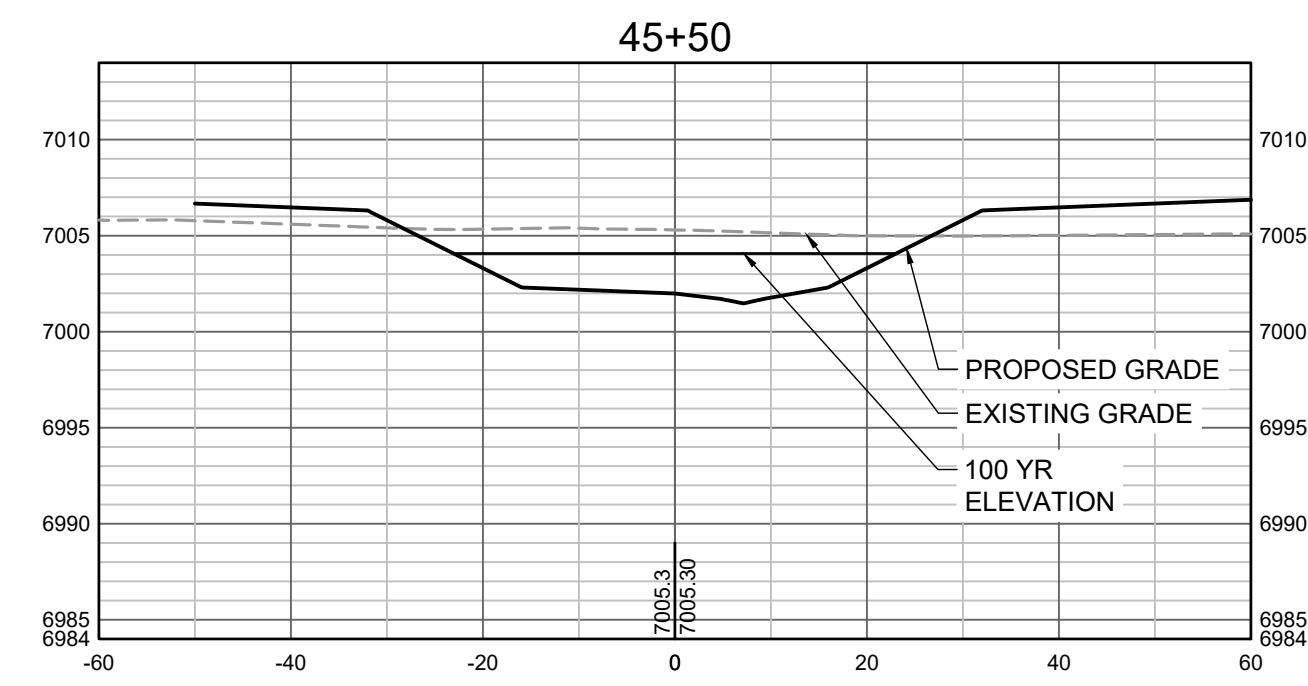
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 FAX: 844.273.1057

GRANDVIEW RESERVE (DRAINAGE A & B)
DR HORTON
 FALCON, COLORADO

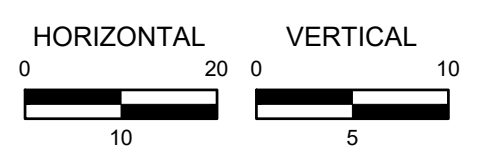
CONSTRUCTION DOCUMENTS
 TRIBUTARY 2 CROSS SECTIONS

SHEET
CS10

40



PROPOSED GRADES TO TIE INTO GRANDVIEW RESERVE FILING 1.
 REFER TO THE GRANDVIEW RESERVE FILING 1 PLAN SET FOR
 CONTINUATION OF GRADING THAT IS BEING TIED INTO OUTSIDE
 OF CHANNEL GRADING LIMITS.



HR GREEN Xref: xref.dwg

DRAWN BY: TBI JOB DATE: 3/22/2023
 APPROVED: CMM JOB NUMBER: 201662.03
 CAD DATE: 3/27/2023
 CAD FILE: J:\2020\201662.03\CAD\DWG\CROSS SECTIONS

BAR IS ONE INCH ON
 OFFICIAL DRAWINGS.
 0" = 1"
 IF NOT ONE INCH,
 ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	REVISION DESCRIPTION

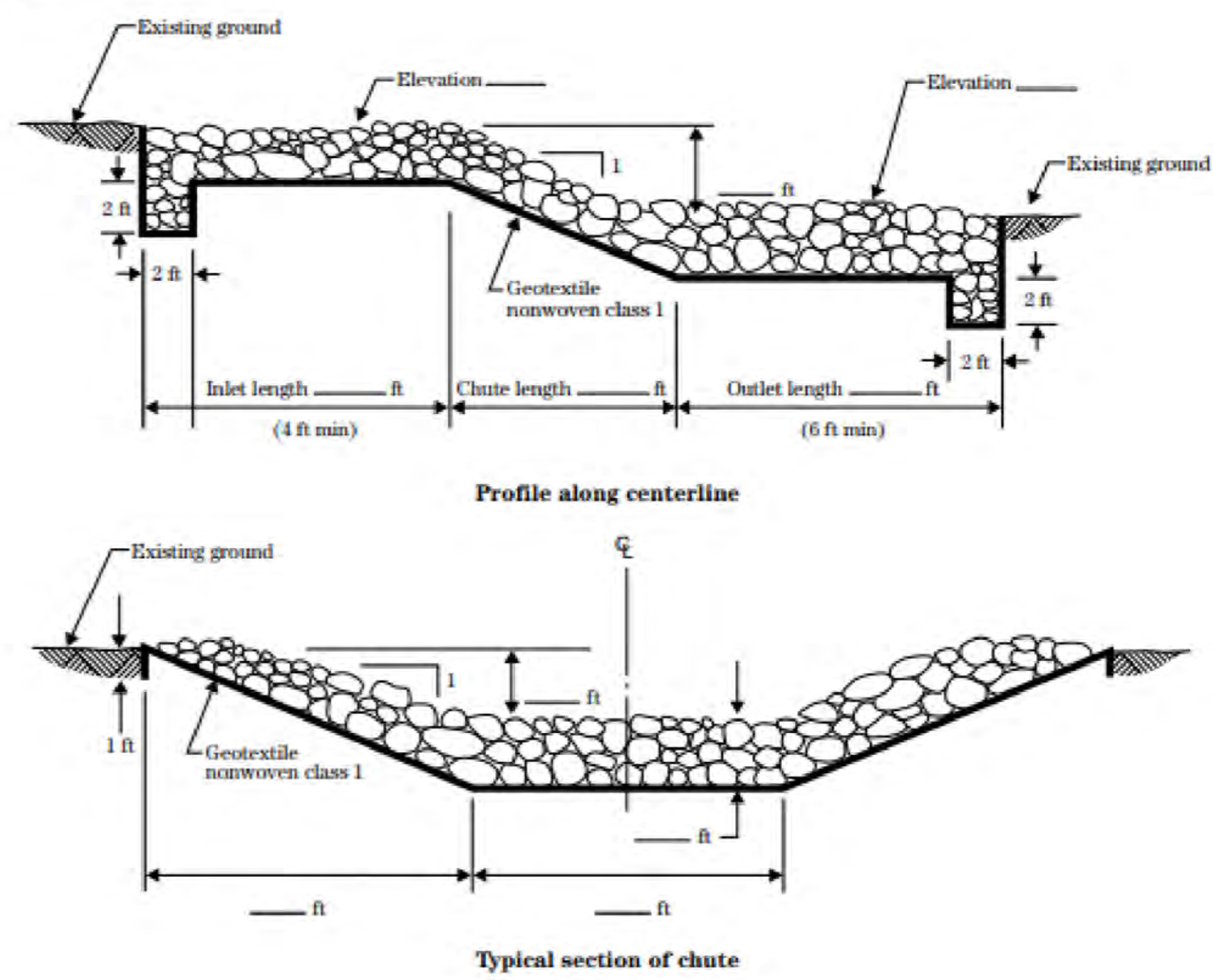
HRGreen
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GRANDVIEW RESERVE (DRAINAGE A & B)
DR HORTON
 FALCON, COLORADO

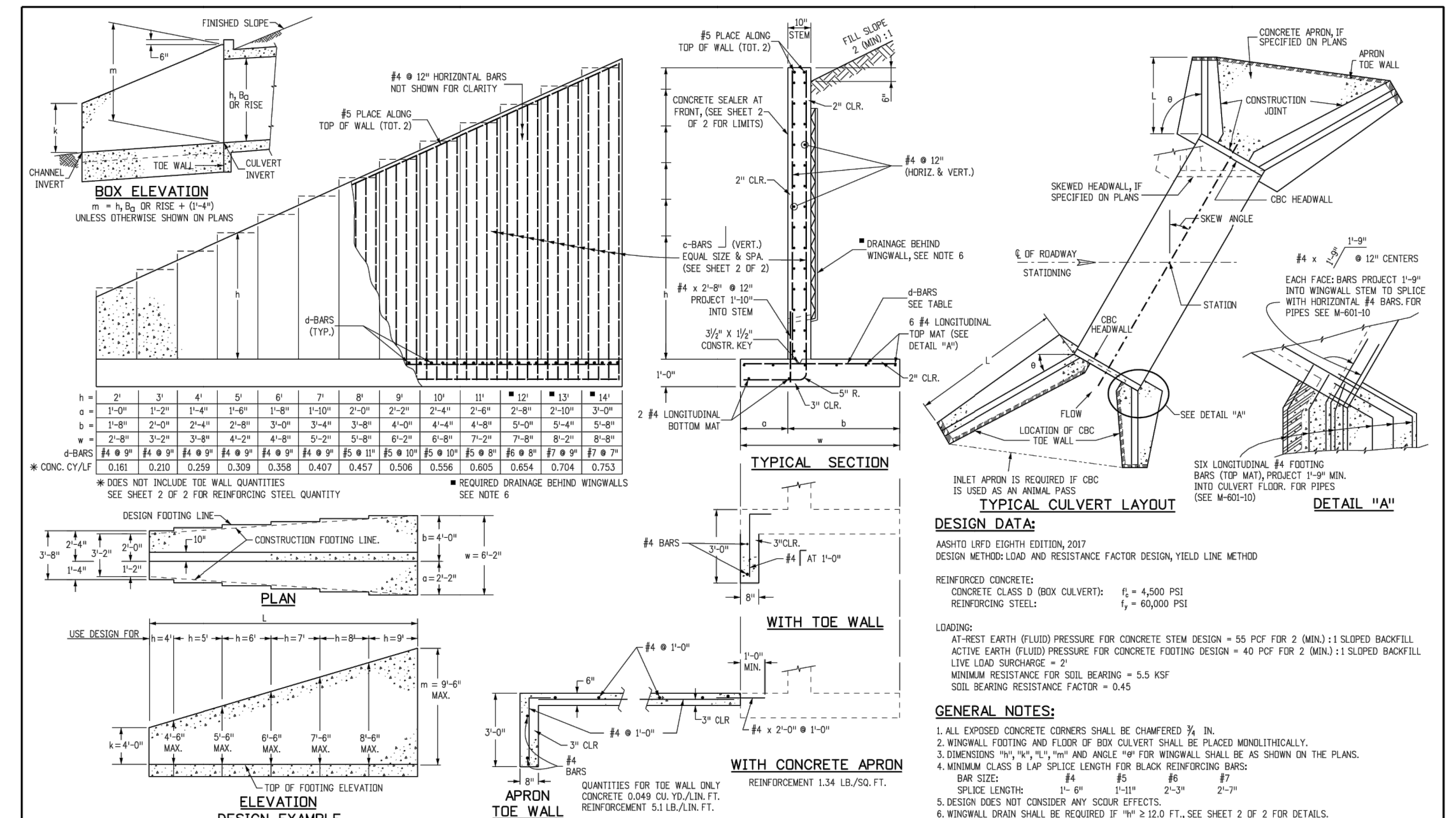
CONSTRUCTION DOCUMENTS
 TRIBUTARY 2 CROSS SECTIONS

SHEET
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 41

Figure TS14P-32 Design drawings for rock chute grade control structure



TS14P-16 (210-VI-NEH, August 2007)



Computer File Information	Sheet Revisions	Colorado Department of Transportation	STANDARD PLAN NO.
Creation Date: 07/31/19	Date:	2829 West Howard Place	M-601-20
Designer Initials: JBK	Comments:	CDOT HQ, 3rd Floor	Standard Sheet No. 1 of 2
Last Modification Date: 07/31/19		Denver, CO 80204	
Detailer Initials: LTA		Phone: 303-757-9021 FAX: 303-757-9988	
CAD Ver: MicroStation V8 Scale: Not to Scale Units: English		Project Development Branch	Issued by the Project Development Branch July 31, 2019

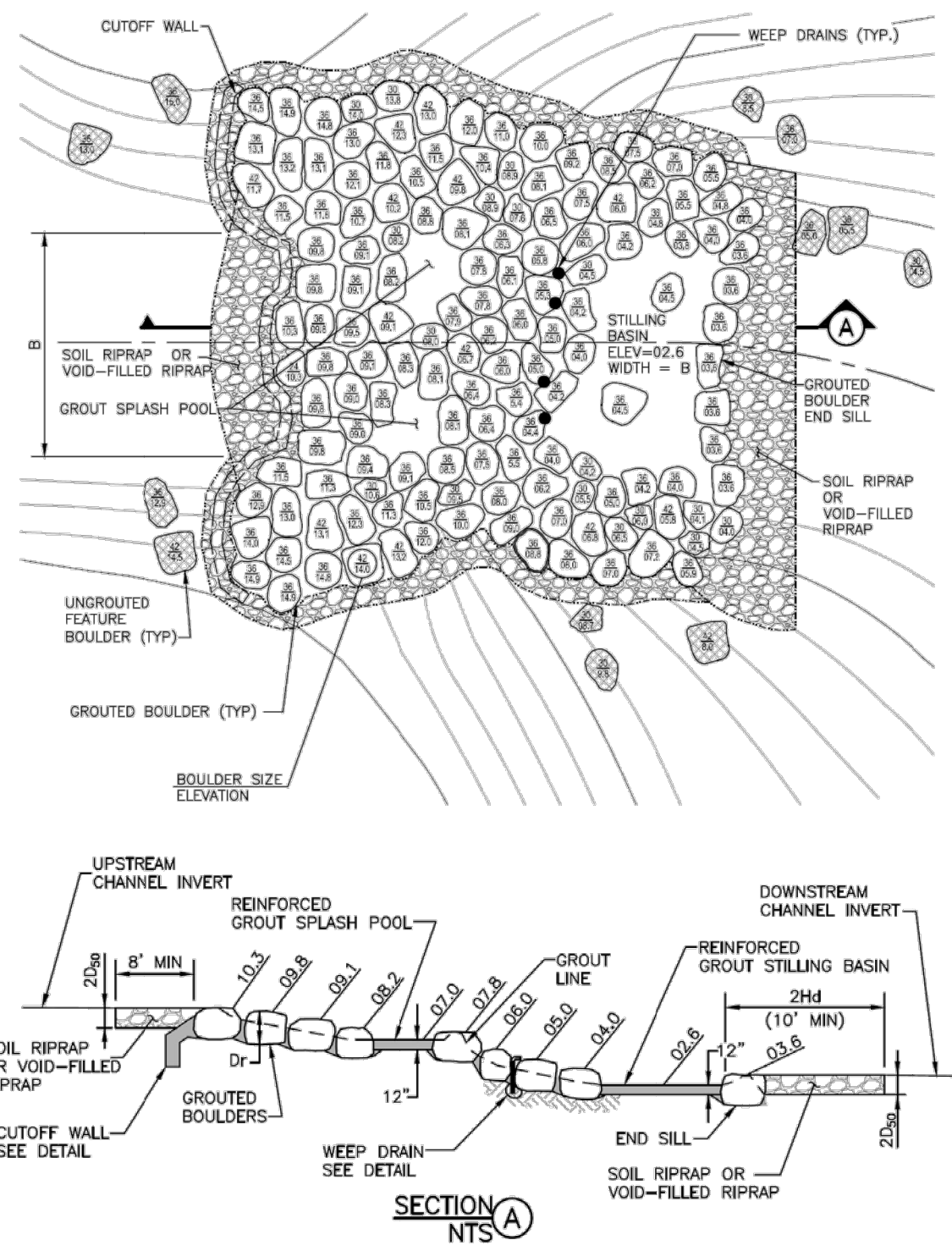


Figure 9-14. Example of complex grouted stepped boulder drop structure

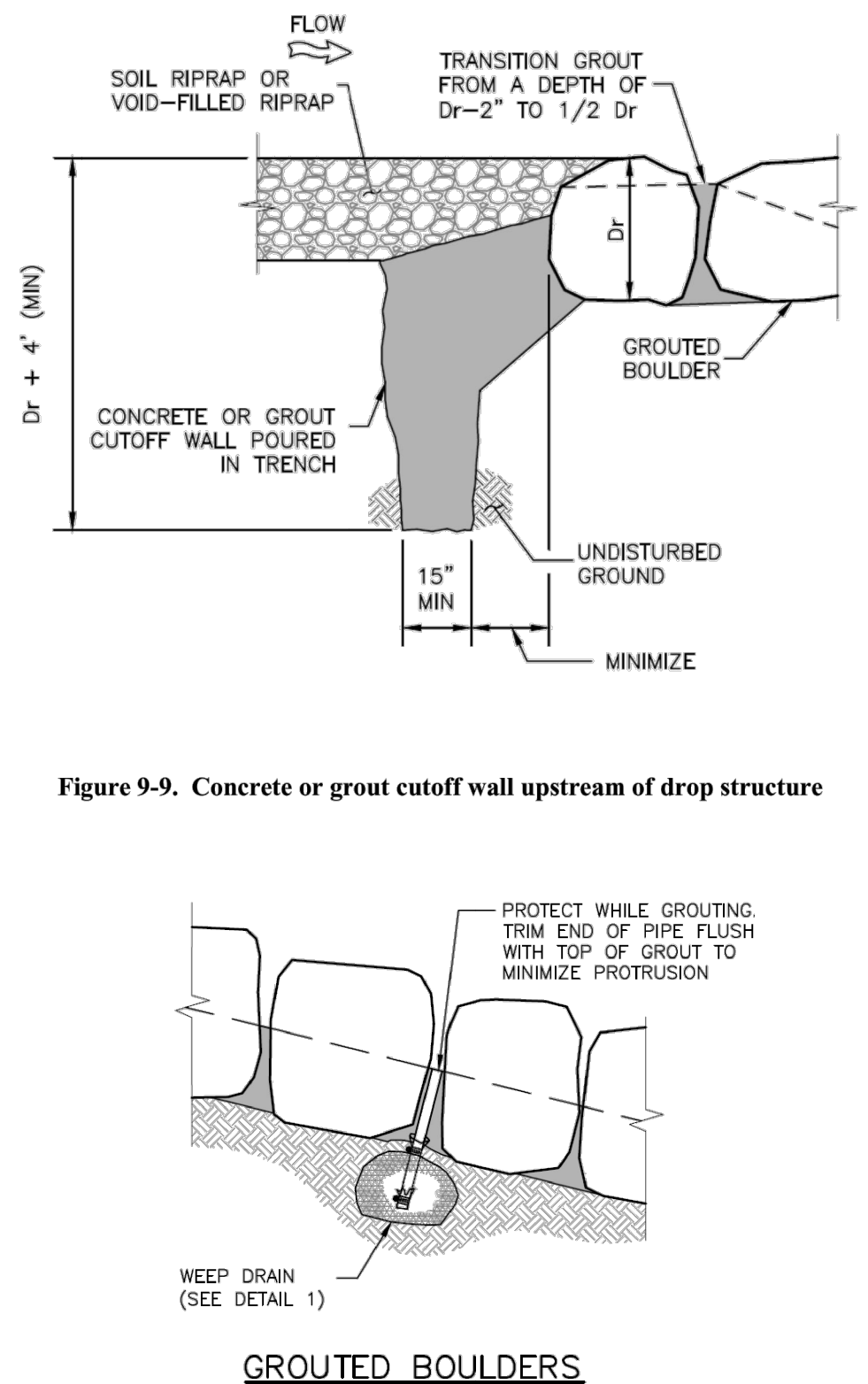


Figure 9-9. Concrete or grout cutoff wall upstream of drop structure

C-BARS AND REINFORCING STEEL QUANTITY (EXCLUDE THE WALL)		REINFORCING STEEL QUANTITY INCLUDES STEM AND FOOTING QUANTITIES, BUT DOES NOT INCLUDE THE WALL QUANTITIES.	
W (FT)	L (FT)	REINFORCING STEEL QUANTITY (EXCLUDE THE WALL)	REINFORCING STEEL QUANTITY INCLUDES STEM AND FOOTING QUANTITIES, BUT DOES NOT INCLUDE THE WALL QUANTITIES.
14	2	14.00	14.00
14	3	21.00	21.00
14	4	28.00	28.00
14	5	35.00	35.00
14	6	42.00	42.00
14	7	49.00	49.00
14	8	56.00	56.00
14	9	63.00	63.00
14	10	70.00	70.00
14	11	77.00	77.00
14	12	84.00	84.00
14	13	91.00	91.00
14	14	98.00	98.00
14	15	105.00	105.00
14	16	112.00	112.00
14	17	119.00	119.00
14	18	126.00	126.00
14	19	133.00	133.00
14	20	140.00	140.00
14	21	147.00	147.00
14	22	154.00	154.00
14	23	161.00	161.00
14	24	168.00	168.00
14	25	175.00	175.00
14	26	182.00	182.00
14	27	189.00	189.00
14	28	196.00	196.00
14	29	203.00	203.00
14	30	210.00	210.00
14	31	217.00	217.00
14	32	224.00	224.00
14	33	231.00	231.00
14	34	238.00	238.00
14	35	245.00	245.00
14	36	252.00	252.00
14	37	259.00	259.00
14	38	266.00	266.00
14	39	273.00	273.00
14	40	280.00	280.00
14	41	287.00	287.00
14	42	294.00	294.00
14	43	301.00	301.00
14	44	308.00	308.00
14	45	315.00	315.00
14	46	322.00	322.00
14	47	329.00	329.00
14	48	336.00	336.00
14	49	343.00	343.00
14	50	350.00	350.00
14	51	357.00	357.00
14	52	364.00	364.00
14	53	371.00	371.00
14	54	378.00	378.00
14	55	385.00	385.00
14	56	392.00	392.00
14	57	399.00	399.00
14	58	406.00	406.00
14	59	413.00	413.00
14	60	420.00	420.00
14	61	427.00	427.00
14	62	434.00	434.00
14	63	441.00	441.00
14	64	448.00	448.00
14	65	455.00	455.00
14	66	462.00	462.00
14	67	469.00	469.00
14	68	476.00	476.00
14	69	483.00	483.00
14	70	490.00	490.00
14	71	497.00	497.00
14	72	504.00	504.00
14	73	511.00	511.00
14	74	518.00	518.00
14	75	525.00	525.00
14	76	532.00	532.00
14	77	539.00	539.00
14	78	546.00	546.00
14	79	553.00	553.00
14	80	560.00	560.00
14	81	567.00	567.00
14	82	574.00	574.00
14	83	581.00	581.00
14	84	588.00	588.00
14	85	595.00	595.00
14	86	602.00	602.00
14	87	609.00	609.00
14	88	616.00	616.00
14	89	623.00	623.00
14	90	630.00	630.00
14	91	637.00	637.00
14	92	644.00	644.00
14	93	651.00	651.00
14	94	658.00	658.00
14	95	665.00	665.00
14	96	672.00	672.00
14	97	679.00	679.00
14	98	686.00	686.00
14	99	693.00	693.00
14	100	700.00	700.00

EXAMPLE:
SELECT THE C-BARS SIZE, SPACING AND STEEL QUANTITY FOR A 250 FEET LONG WINGWALL WITH m = 1.84 FT AND k = 6.3 FT.
SOLUTION:
1. DETERMINE WINGWALL LENGTH IN MULTIPLE OF m:
L / m = 250 / 1.84 = 135.33
L = 135.33 x m = 248.15 FT
2. ROUND TO NEAREST WHOLE NUMBER FOR m AND k:
m = 1.84 FT, k = 6.3 FT
3. DETERMINE C-BARS BY USING THE TABLE:
L (5.25 x m) = 135.33
m = 1.84
k = 6.3 FT
4. DETERMINE REINFORCING STEEL QUANTITY OF WHOLE WINGWALL:
REINFORCING STEEL QUANTITY = 250 x 650 x 1.25 x 1.84 = 365,625 LB

LIMITS OF CONCRETE SEALER AND WINGWALL DRAIN DETAILS
NOTES: THE GEOTEXTILE SHALL BE SECURED TO THE WALL TO PREVENT MOVEMENT DURING BACKFILLING.
2. COST OF GEOTEXTILE DRAIN AND CONCRETE SEALER SHALL BE INCLUDED IN THE WORK.

DRAWN BY: TBI	JOB DATE: 3/22/2023	BAR IS ONE INCH ON OFFICIAL DRAWINGS.
APPROVED: CMM	JOB NUMBER: 201662.03	0" = 1"
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CAD FILE: J120201201662.03\CAD\DWG\CIDETAILS		

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GRANDVIEW RESERVE (DRAINAGE A & B)
DR HORTON
FALCON, COLORADO

CONSTRUCTION DOCUMENTS
DETAILS

SHEET DT1
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