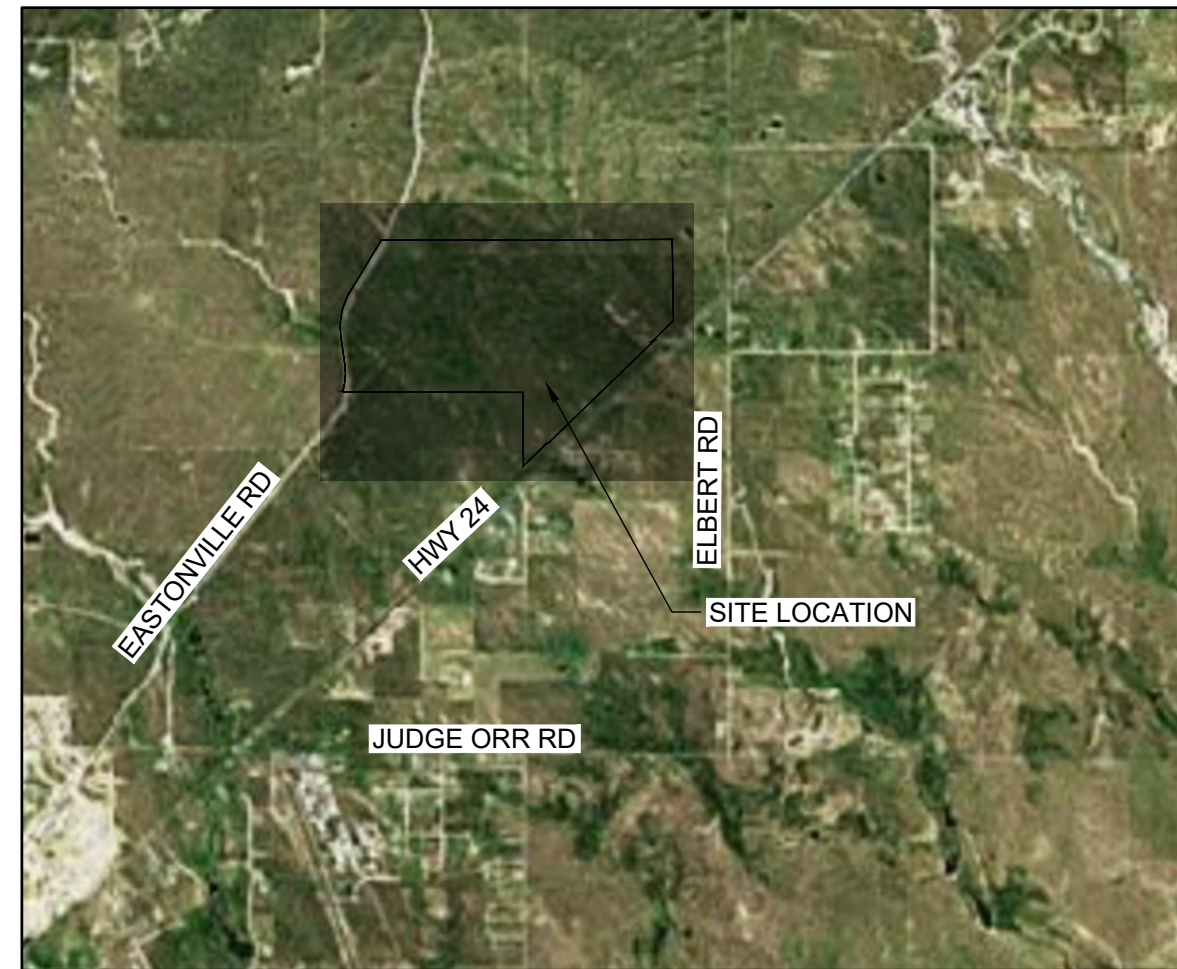


Appendix D Proposed Plans

GRANDVIEW RESERVE (DRAINAGE A & B) GIECK RANCH TRIBUTARY, 1 GIECK RANCH TRIBUTARY 2

SECTIONS 21, 22, 27 & 28, TOWNSHIP 12 S, RANGE 64 W
CITY OF FALCON, EL PASO COUNTY, STATE OF COLORADO



SHEET INDEX		
PAGE NUMBER	SHEET NUMBER	SHEET TITLE
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03	SC1	SURVEY CONTROL PLAN
04	UP1	OVERALL UTILITY PLAN
05	GR1	TRIBUTARY 1 Grading
06	GR2	TRIBUTARY 2 Valley Grading
07	GR3	TRIBUTARY 2 Valley Grading
08	GR4	TRIBUTARY 2 Valley Grading
09	GR5	TRIBUTARY 2 Valley Grading
10	GR6	TRIBUTARY 2 Valley Grading
11	GR7	TRIBUTARY 2 Valley Grading
12	GR8	TRIBUTARY 2 Valley Grading
13	GR9	TRIBUTARY 2 Valley Grading
14	GR10	TRIBUTARY 2 Bankfull Grading
15	GR11	TRIBUTARY 2 Bankfull Grading
16	GR12	TRIBUTARY 2 Bankfull Grading
17	GR13	TRIBUTARY 2 Bankfull Grading
18	GR14	TRIBUTARY 2 Bankfull Grading
19	EC1	INITIAL EROSION CONTROL
20	EC2	INITIAL EROSION CONTROL
21	EC3	INITIAL EROSION CONTROL
22	EC4	FINAL EROSION CONTROL
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25	PP1	DRAINAGE TRIBUTARY 1 PLAN AND PROFILE
26	PP2	DRAINAGE TRIBUTARY 2 PLAN AND PROFILE
27	PP3	DRAINAGE TRIBUTARY 2 PLAN AND PROFILE
28	PP4	DRAINAGE TRIBUTARY 2 PLAN AND PROFILE
29	PP5	DRAINAGE CULVERTS PLAN AND PROFILE
30	PP6	DRAINAGE CULVERT PLAN AND PROFILE
31	CS1	TRIBUTARY 2 CROSS SECTIONS
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33	CS3	TRIBUTARY 2 CROSS SECTIONS
34	CS4	TRIBUTARY 2 CROSS SECTIONS
35	CS5	TRIBUTARY 2 CROSS SECTIONS
36	CS6	TRIBUTARY 2 CROSS SECTIONS
37	CS7	TRIBUTARY 2 CROSS SECTIONS
38	CS8	TRIBUTARY 2 CROSS SECTIONS
39	CS9	TRIBUTARY 2 CROSS SECTIONS
40	CS10	TRIBUTARY 2 CROSS SECTIONS
41	CS11	TRIBUTARY 2 CROSS SECTIONS
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43	DT2	DETAILS
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46	DT5	DETAILS
47	DT6	DETAILS

SYMBOLS, ABBREVIATIONS, AND LINETYPES LEGEND

	CWA	CONCRETE WASHOUT AREA
	CF	CONSTRUCTION FENCE
	IP	INLET PROTECTION
	OP	OUTLET PROTECTION
	SF	SILT FENCE
	SSA	STABILIZED STAGING AREA
	VTC	VEHICLE TRACKING CONTROL
	LOC	LIMITS OF CONSTRUCTION
	CD	CHECK DAM
	SM	SEEDING AND MULCHING
	SB	SEDIMENT BASIN
	SR	SURFACE ROUGHENING
	ECB	EROSION CONTROL BLANKET
	CIP	CULVERT INLET PROTECTION
	RS	ROCK SOCK
		STORM INLET TYPE R
		STORM END SECTION
		STORM MANHOLE
		SANITARY MANHOLE
		FIRE HYDRANT
		LIGHT POLE
		WATER VALVE
		PROPERTY LINE
		ROAD CENTERLINE
		RIGHT-OF-WAY LINE
		PROPOSED DRAINAGE
		PROPOSED MAJOR CONTOUR
		PROPOSED MINOR CONTOUR
		EXISTING MAJOR CONTOUR
		EXISTING MINOR CONTOUR
		FLOW ARROW
		EFFECTIVE 100-YR FLOODPLAIN
		EFFECTIVE 100-YR FLOODWAY
		POTENTIAL WALL
		STORM SEWER
		WATERMAIN
		SANITARY SEWER
		SANITARY SERVICE
	ARV	AIR RELEASE VALVE
	CP	CATHODIC PROTECTION STATION
	MUE	MULTI USE EASEMENT
	APRX	APPROXIMATE
	PR	PROPOSED
	FT	FEET
	DIA	DIAMETER
	LF	LINEAL FEET
	EL	ELEVATION

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

LEGAL DESCRIPTION:

A TRACT OF LAND BEING PORTIONS OF THE SOUTH HALF OF SECTION 21, SOUTH HALF OF SECTION 22, NORTH HALF OF SECTION 28 AND SECTION 27, TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE SIXTH PRINCIPAL MERIDIAN, EL PASO COUNTY, COLORADO, BEING DESCRIBED AS FOLLOWS:

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.

COMMENCING AT THE SOUTHEAST CORNER OF SAID SECTION 21; THENCE NORTH 00 DEGREES 52 MINUTES 26 SECONDS WEST ON THE EAST LINE OF SAID SECTION, A DISTANCE OF 2645.09 FEET TO THE NORTHEAST CORNER OF THE SOUTHWEST QUARTER OF SAID SECTION 21, SAID POINT BEING THE POINT OF BEGINNING; THENCE NORTH 89 DEGREES 41 MINUTES 03 SECONDS EAST ON THE NORTH LINE OF THE SOUTH HALF OF SAID SECTION 22, A DISTANCE OF 3938.20 FEET; THENCE SOUTH 00 DEGREES 41 MINUTES 58 SECONDS EAST ON THE EAST LINE OF THE WEST HALF OF THE SOUTHWEST QUARTER OF SECTION 22, A DISTANCE OF 2117.66 FEET TO A POINT ON THE NORTHWESTERLY RIGHT OF WAY LINE OF THE ROCK ISLAND REGIONAL TRAIL AS GRANTED TO EL PASO COUNTY IN THAT WARRANTY DEED RECORDED OCTOBER 21, 1994 IN BOOK 6548 AT PAGE 892, RECORDS OF EL PASO COUNTY, COLORADO; THENCE ON SAID NORTHWESTERLY RIGHT OF WAY, THE FOLLOWING FIVE (5) COURSES:

- (1) SOUTH 45 DEGREES 55 MINUTES 49 SECONDS WEST, A DISTANCE OF 758.36 FEET TO A POINT ON THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 22;
- (2) NORTH 89 DEGREES 38 MINUTES 06 SECONDS EAST ON SAID SOUTH LINE, A DISTANCE OF 36.18 FEET;
- (3) SOUTH 45 DEGREES 55 MINUTES 49 SECONDS WEST, A DISTANCE OF 3818.92 FEET TO A POINT ON THE NORTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 27;
- (4) SOUTH 89 DEGREES 39 MINUTES 01 SECONDS WEST ON SAID NORTH LINE, A DISTANCE OF 36.17 FEET;
- (5) SOUTH 45 DEGREES 55 MINUTES 49 SECONDS WEST, A DISTANCE OF 855.35 FEET TO A POINT ON THE EASTERLY LINE OF SAID SECTION 28;

THENCE NORTH 00 DEGREES 21 MINUTES 45 SECONDS WEST ON THE EAST LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 28, A DISTANCE OF 591.16 FEET TO THE NORTHEAST CORNER OF SAID SOUTHWEST QUARTER; THENCE NORTH 00 DEGREES 21 MINUTES 38 SECONDS WEST ON THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 28, A DISTANCE OF 1319.24 FEET TO THE SOUTH LINE OF THE NORTH HALF OF THE NORTH HALF OF SAID SECTION 28; THENCE NORTH 89 DEGREES 47 MINUTES 08 SECONDS WEST ON SAID SOUTH LINE, A DISTANCE OF 4692.55 FEET TO A POINT ON THE EASTERLY RIGHT OF WAY LINE OF EXISTING EASTONVILLE ROAD (60.00 FOOT WIDE); THENCE ON SAID EASTERLY RIGHT OF WAY AS DEFINED BY CERTIFIED BOUNDARY SURVEY, AS RECORDED JULY 18, 2001 UNDER RECEPTION NO. 201900096, THE FOLLOWING FIVE (5) COURSES:

- (1) ON THE ARC OF A CURVE TO THE LEFT, WHOSE CENTER BEARS NORTH 73 DEGREES 08 MINUTES 46 SECONDS WEST, HAVING A DELTA OF 24 DEGREES 31 MINUTES 32 SECONDS, A RADIUS OF 1630.00 FEET, A DISTANCE OF 697.73 FEET TO A POINT OF TANGENT;
- (2) NORTH 07 DEGREES 40 MINUTES 18 SECONDS WEST, A DISTANCE OF 777.34 FEET TO A POINT OF CURVE;
- (3) ON THE ARC OF A CURVE TO THE RIGHT, HAVING A DELTA OF 39 DEGREES 01 MINUTES 10 SECONDS, A RADIUS OF 1770.00 FEET, A DISTANCE OF 1205.40 FEET TO A POINT OF TANGENT;
- (4) NORTH 31 DEGREES 20 MINUTES 52 SECONDS EAST, A DISTANCE OF 1517.37 FEET TO A POINT OF CURVE;
- (5) ON THE ARC OF A CURVE TO THE LEFT, HAVING A DELTA OF 02 DEGREES 07 MINUTES 03 SECONDS, A RADIUS OF 1330.00 FEET, A DISTANCE OF 49.15 FEET TO A POINT ON THE NORTH LINE OF THE SOUTH HALF OF SAID SECTION 21;

THENCE SOUTH 89 DEGREES 50 MINUTES 58 SECONDS EAST ON SAID NORTH LINE, A DISTANCE OF 3635.53 FEET TO THE POINT OF BEGINNING;

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 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.

ENGINEER OF RECORD SIGNATURE _____ DATE _____

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 REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

OWNER SIGNATURE _____ DATE _____
4 SITE INVESTMENTS LLC
1271 KELLY JOHNSON BLVD STE 100 COLORADO SPRINGS CO, 80902

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.

JOSHUA PALMER, P.E. _____ DATE _____
INTERIM COUNTY ENGINEER / ECM ADMINISTRATOR



5619 DTC PARKWAY, SUITE 1150 | GREENWOOD VILLAGE, COLORADO 80111
Phone: 720.602.4999 | Toll Free: 800.728.7805 | HRGreen.com

EL PASO PDC FILE NO.
CDR-228

ENGINEER CONTACT(S):
HR GREEN DEVELOPMENT, LLC
GREG PANZA, P.E.
5619 DTC PARKWAY, SUITE 1150
GREENWOOD VILLAGE, CO 80111
PH: 720-602-4999
gpanza@hrgreen.com

HR GREEN Xref: xg-1-dh01; 01-XL-CONCEPT

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APPROVED: TBI JOB NUMBER: 201662.03
CAD DATE: 3/27/2023
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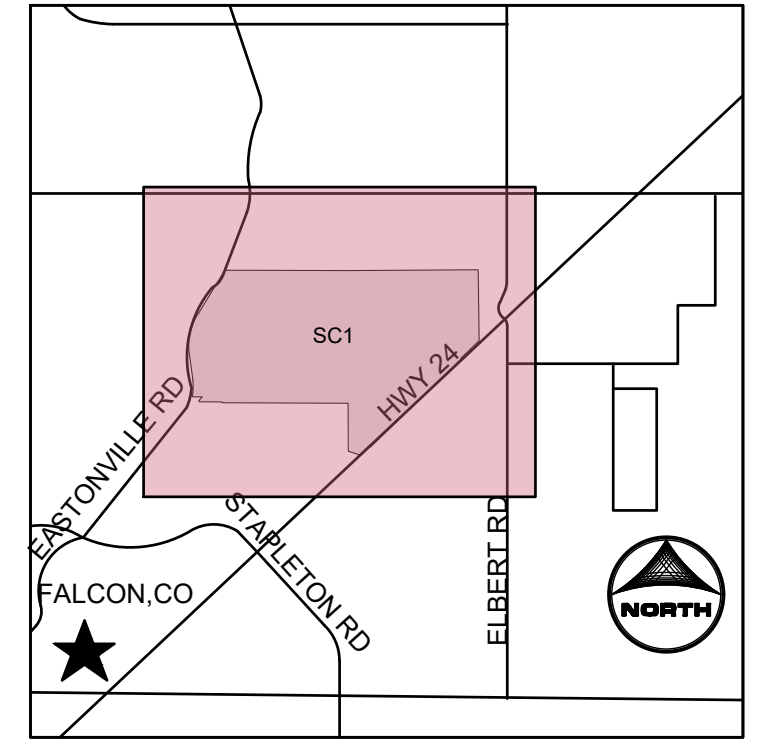
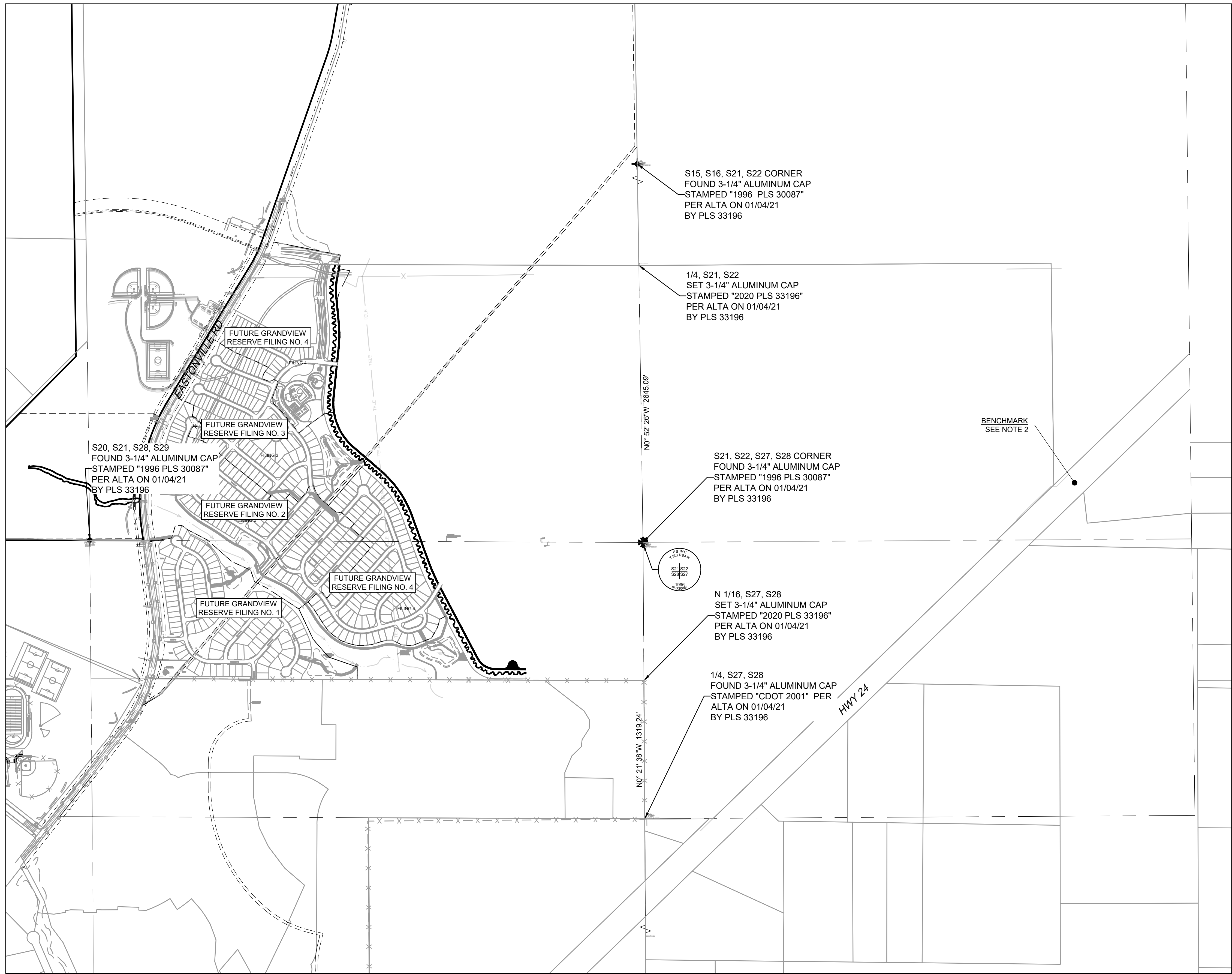


HR GREEN - DENVER
5619 DTC PARKWAY SUITE 1150
DENVER CO 80111
PHONE: 720.602.4999
FAX: 844.273.1057

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

CONSTRUCTION DOCUMENTS
TITLE SHEET

SHEET
TS1
01



KEYMAP
PROJECT LEGEND:
 ———— PROPERTY LINE
 - - - - SECTION LINE
 ◆ SECTION CORNER

NOTES:
 1. **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.
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 CONTROL POINT COORDINATE SYSTEM:
 NAVD88
 NORTHING: 1421049.80
 EASTING: 3273631.55
 ELEVATION: 6866.33

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 APPROVED: GP JOB NUMBER: 201662.03
 CAD DATE: 3/27/2023
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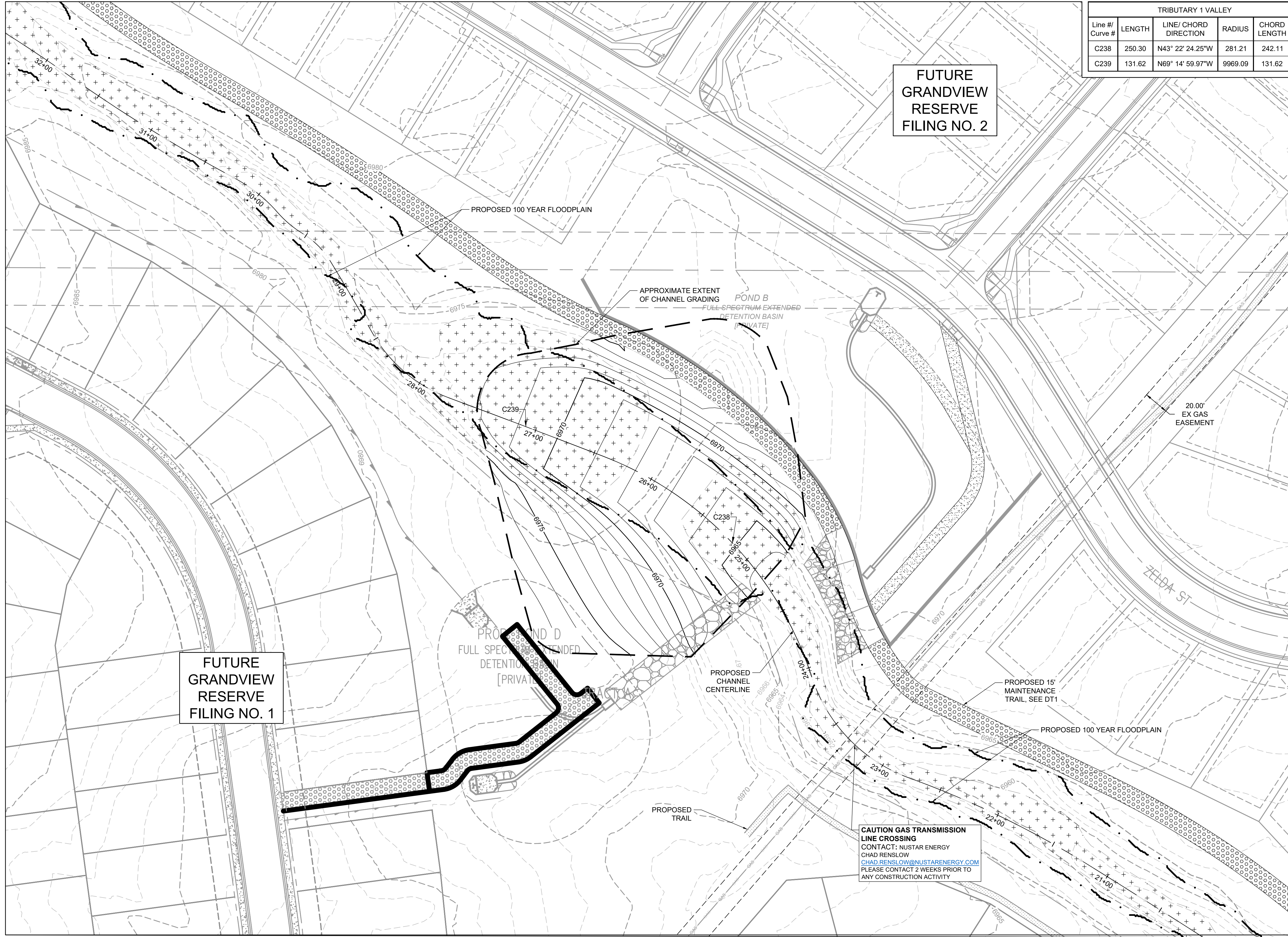
HR GREEN - DENVER
 5619 DTC PARKWAY SUITE 1150
 DENVER CO 80111
 PHONE: 720.602.4999
 FAX: 844.273.1057

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

CONSTRUCTION DOCUMENTS
 SURVEY CONTROL PLAN

SHEET
SC1
03

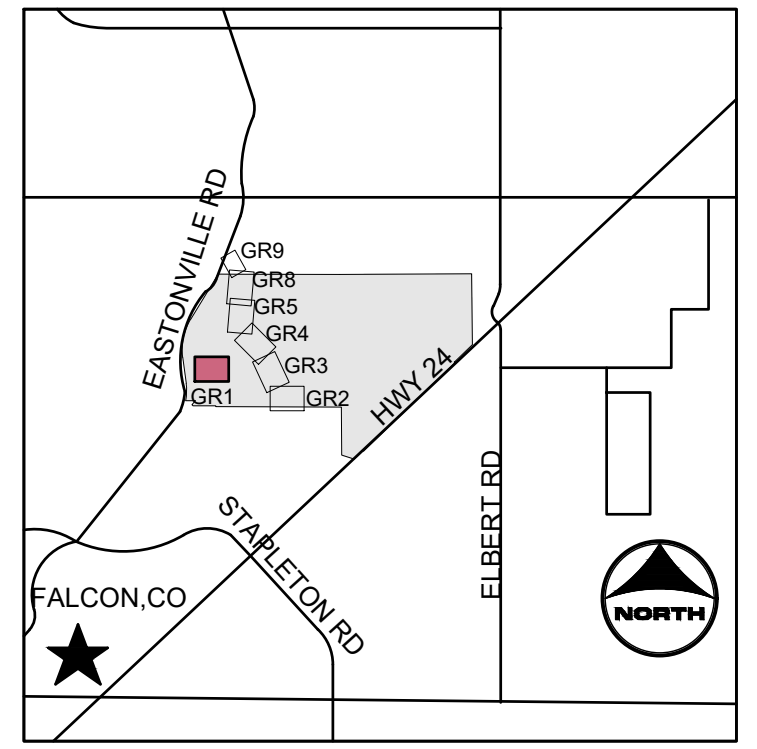
HR GREEN - DENVER: 5619 DTC PARKWAY SUITE 1150, DENVER CO 80111, PHONE: 720.602.4999, FAX: 844.273.1057
 HR GREEN - FALCON: 10000 N. STATE ST., FALCON CO, PHONE: 720.602.4999, FAX: 844.273.1057
 FILE: J:\2020\201662.03\CAD\DWG\CIG\GRADING



Line # / Curve #	LENGTH	LINE/ CHORD DIRECTION	RADIUS	CHORD LENGTH
C238	250.30	N43° 22' 24.25"W	281.21	242.11
C239	131.62	N69° 14' 59.97"W	9969.09	131.62

FUTURE GRANDVIEW RESERVE FILING NO. 2

FUTURE GRANDVIEW RESERVE FILING NO. 1



KEYMAP

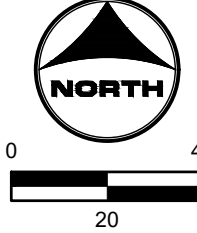
PROJECT LEGEND:

- PROPERTY LINE
- ROAD CENTERLINE
- RIGHT-OF-WAY LINE
- SECTION LINE
- EXISTING EASEMENT
- 5250--- PROPOSED MAJOR CONTOUR
- 5250--- PROPOSED MINOR CONTOUR
- 5250--- EXISTING MAJOR CONTOUR
- 5250--- EXISTING MINOR CONTOUR
- FLOW ARROW
- - - LIMITS OF CONSTRUCTION
- . - . PROPOSED 100-YR FLOODPLAIN

- EFFECTIVE 100-YR FLOODPLAIN
- EXISTING WETLANDS
- PROPOSED MAINTENANCE TRAIL

- NOTES:**
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 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
 - 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.**

CAUTION GAS TRANSMISSION LINE CROSSING
 CONTACT: NUSTAR ENERGY
 CHAD RENSLAW
CHAD.RENSLAW@NUSTARENERGY.COM
 PLEASE CONTACT 2 WEEKS PRIOR TO ANY CONSTRUCTION ACTIVITY



811 UNCC
 CALL BEFORE YOU DIG
 811 OR 1-800-922-1987
 Utility Notification Center of Colorado

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CAD DATE: 3/27/2023		IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
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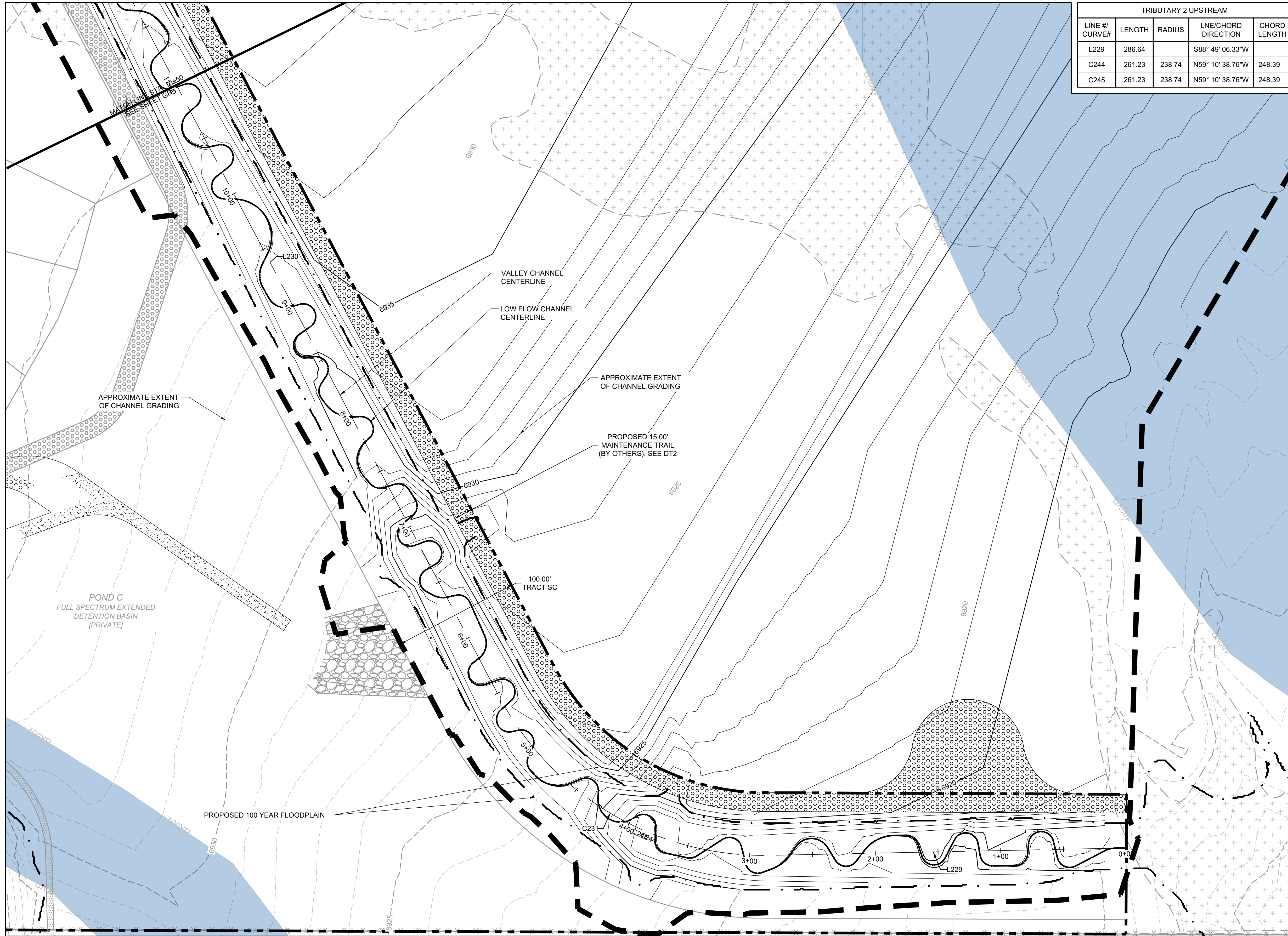
HR GREEN - DENVER
 5619 DTC PARKWAY SUITE 1150
 DENVER CO 80111
 PHONE: 720.602.4999
 FAX: 844.273.1057

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

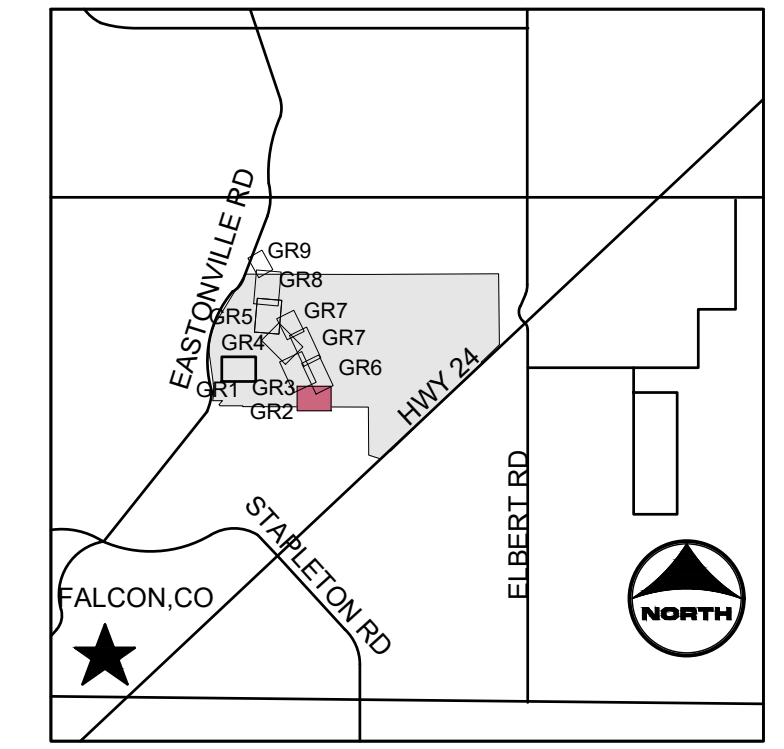
CONSTRUCTION DOCUMENTS
 TRIBUTARY 1 GRADING

SHEET
GR1
05

HR GREEN Xrefs: xgs-c-dh01; GRADING KEY: 01-XC-PR_100YR_FP_DELINEATION; 01-XC-PR_100YR_FP_DELINEATION_A_HRG1; 20X_EBases; x-dign_062; xc-dign-062; xc-dign-F1-062; 10; xc-row-F1-062; 10; xc-row-062; xc-dign-F3; xc-dign-F3; xc-row-F3; xc-row-F3; xc-filling-bnldgs; xc-row-F4; xc-dign-F4; xc-dign-F4; xc-channel; 01-XC-INITIAL-EC



TRIBUTARY 2 UPSTREAM				
LINE # / CURVE#	LENGTH	RADIUS	LINE/CHORD DIRECTION	CHORD LENGTH
L229	286.64		S88° 49' 06.33"W	
C244	261.23	238.74	N59° 10' 38.76"W	248.39
C245	261.23	238.74	N59° 10' 38.76"W	248.39



KEYMAP

PROJECT LEGEND:

- PROPERTY LINE
- ROAD CENTERLINE
- RIGHT-OF-WAY LINE
- SECTION LINE
- EXISTING EASEMENT
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
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811 UNCC CALL BEFORE YOU DIG
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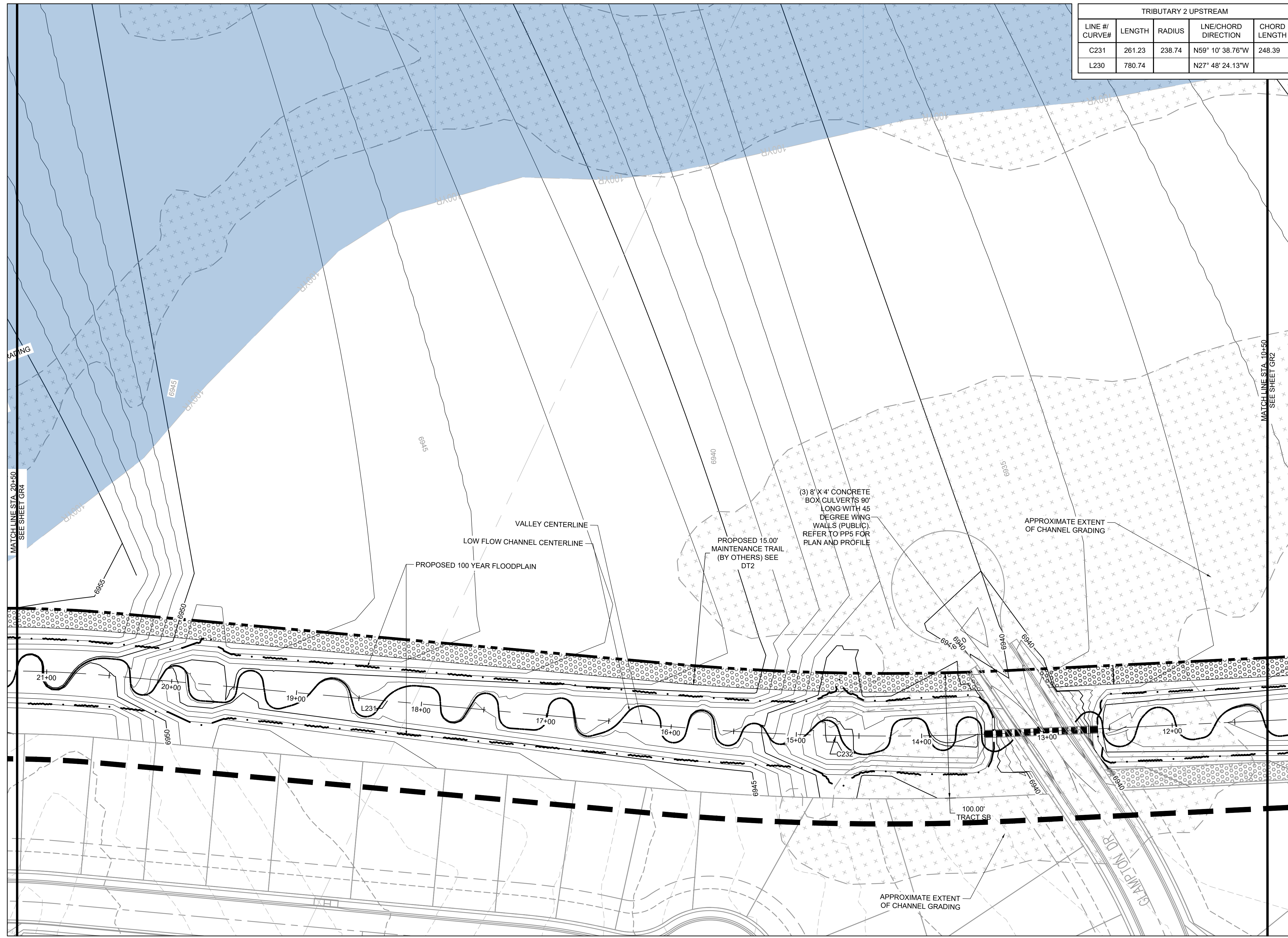
HRGreen
 HR GREEN - DENVER
 5619 DTC PARKWAY SUITE 1150
 DENVER CO 80111
 PHONE: 720.602.4999
 FAX: 844.273.1057

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

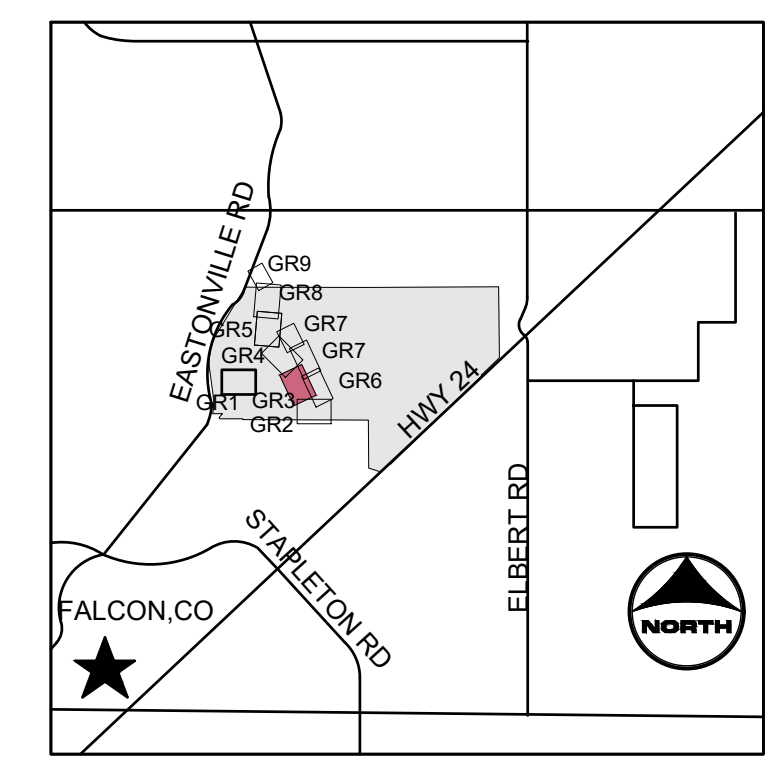
CONSTRUCTION DOCUMENTS
 TRIBUTARY 2 VALLEY GRADING

SHEET
GR2
 06

HR GREEN \xref\sg\c-dh01\GRADING KEY: 01\XC-PR_100YR_FP_DELINEATION: 01\XC-PR_100YR_FP_DELINEATION_A_HRG_120X_EBaser_v-dsgr_082; xc-dsgr-d82; 10; xc-row-F1-d82; 10; xc-row-F2-d82; 10; xc-row-F3-d82; 10; xc-row-F4-d82; 10; xc-row-F5-d82; 10; xc-row-F6-d82; 10; xc-row-F7-d82; 10; xc-row-F8-d82; 10; xc-row-F9-d82; 10; xc-row-F10-d82; 10; xc-row-F11-d82; 10; xc-row-F12-d82; 10; xc-row-F13-d82; 10; xc-row-F14-d82; 10; xc-row-F15-d82; 10; xc-row-F16-d82; 10; xc-row-F17-d82; 10; xc-row-F18-d82; 10; xc-row-F19-d82; 10; xc-row-F20-d82; 10; xc-row-F21-d82; 10; xc-row-F22-d82; 10; xc-row-F23-d82; 10; xc-row-F24-d82; 10; xc-row-F25-d82; 10; xc-row-F26-d82; 10; xc-row-F27-d82; 10; xc-row-F28-d82; 10; xc-row-F29-d82; 10; xc-row-F30-d82; 10; xc-row-F31-d82; 10; xc-row-F32-d82; 10; xc-row-F33-d82; 10; xc-row-F34-d82; 10; xc-row-F35-d82; 10; xc-row-F36-d82; 10; xc-row-F37-d82; 10; xc-row-F38-d82; 10; xc-row-F39-d82; 10; xc-row-F40-d82; 10; xc-row-F41-d82; 10; xc-row-F42-d82; 10; xc-row-F43-d82; 10; xc-row-F44-d82; 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TRIBUTARY 2 UPSTREAM				
LINE # / CURVE#	LENGTH	RADIUS	LINE/CHORD DIRECTION	CHORD LENGTH
C231	261.23	238.74	N59° 10' 38.76"W	248.39
L230	780.74		N27° 48' 24.13"W	



KEYMAP

PROJECT LEGEND:

- PROPERTY LINE
- ROAD CENTERLINE
- RIGHT-OF-WAY LINE
- SECTION LINE
- EXISTING EASEMENT
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- FLOW ARROW
- LIMITS OF CONSTRUCTION
- PROPOSED 100-YR FLOODPLAIN

LEGEND:

- EFFECTIVE 100-YR FLOODPLAIN
- EXISTING WETLANDS
- PROPOSED MAINTENANCE TRAIL

NOTES:

- BASIS OF BEARINGS: THE EAST LINE OF SECTION 21, BEING MONUMENTED AT THE SOUTHWEST 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
- 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.

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\CI\GRADING

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

NO.	DATE	BY	REVISION DESCRIPTION

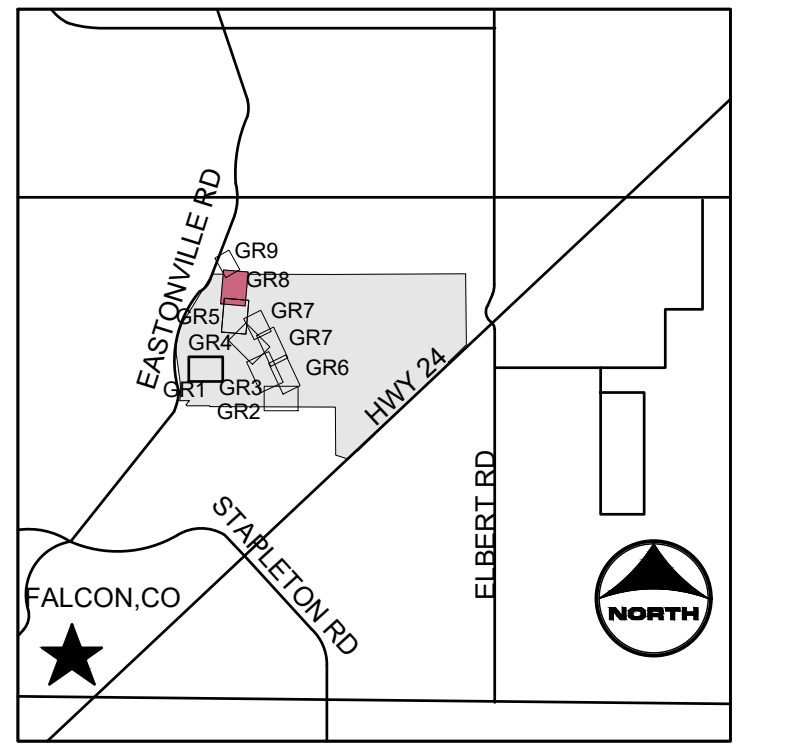
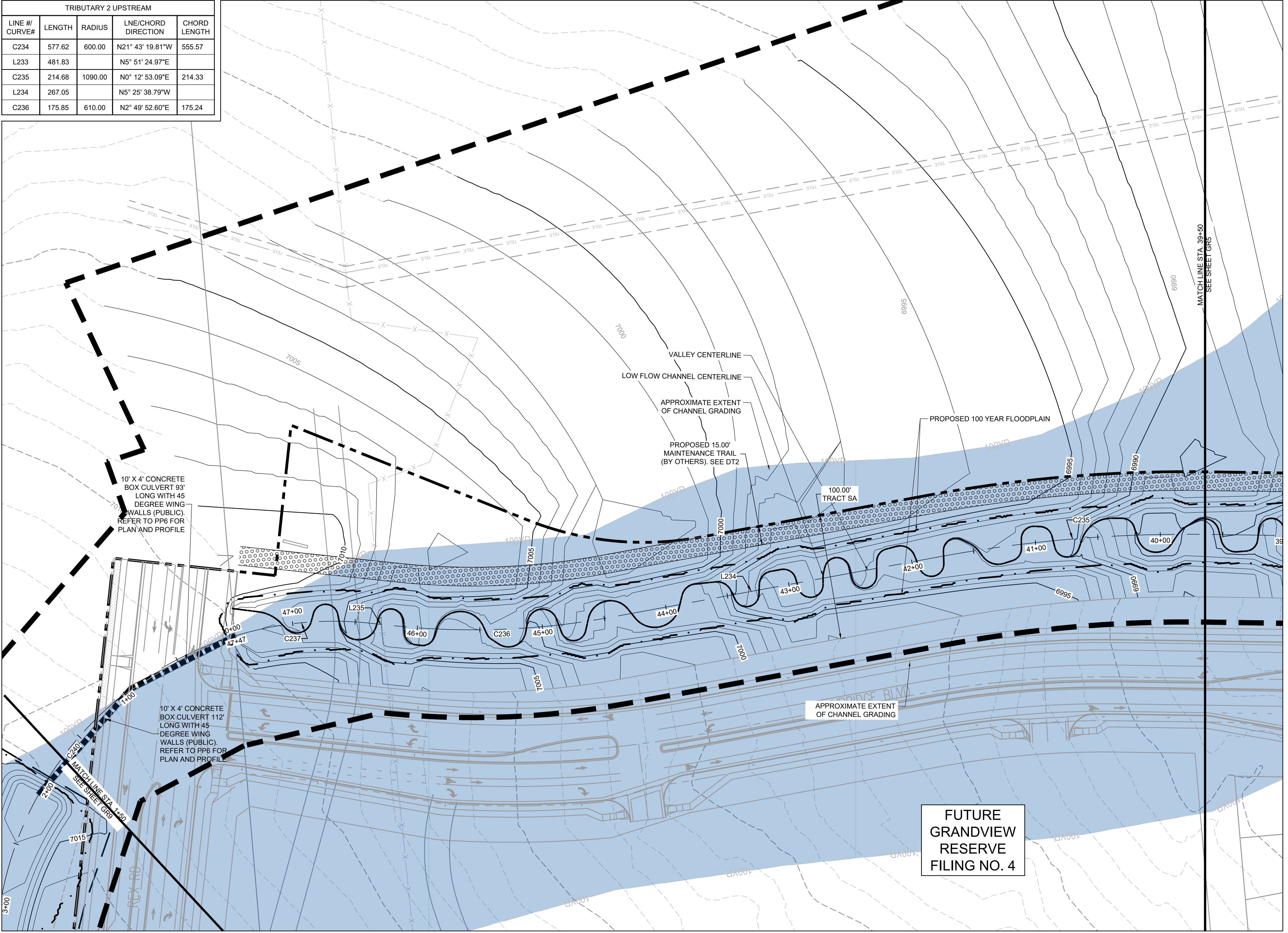
HRGreen
HR GREEN - DENVER
5619 DTC PARKWAY SUITE 1150
DENVER CO 80111
PHONE: 720.602.4999
FAX: 844.273.1057

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

CONSTRUCTION DOCUMENTS
TRIBUTARY 2 VALLEY GRADING

SHEET
GR3
07

TRIBUTARY 2 UPSTREAM				
LINE # / CURVE#	LENGTH	RADIUS	LNE/CHORD DIRECTION	CHORD LENGTH
C234	577.62	600.00	N21° 43' 19.81"W	555.57
L233	481.83		N5° 51' 24.97"E	
C235	214.68	1090.00	N0° 12' 53.09"E	214.33
L234	267.05		N5° 25' 38.79"W	
C236	175.85	610.00	N2° 49' 52.60"E	175.24



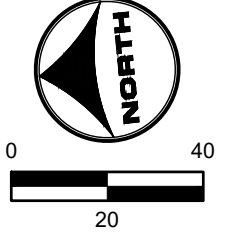
PROJECT LEGEND:

- PROPERTY LINE
- ROAD CENTERLINE
- RIGHT-OF-WAY LINE
- SECTION LINE
- EXISTING EASEMENT
- 5250 PROPOSED MAJOR CONTOUR
- 5250 PROPOSED MINOR CONTOUR
- 5250 EXISTING MAJOR CONTOUR
- 5250 EXISTING MINOR CONTOUR
- FLOW ARROW
- LIMITS OF CONSTRUCTION
- PROPOSED 100-YR FLOODPLAIN

- EFFECTIVE 100-YR FLOODPLAIN
- EXISTING WETLANDS
- PROPOSED MAINTENANCE TRAIL

- 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
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FUTURE GRANDVIEW RESERVE FILING NO. 4



UNCC CALL BEFORE YOU DIG
811
 OR
 1-800-922-1987
 Utility Notification Center of Colorado

HR GREEN - DENVER: 5619 DTC PARKWAY SUITE 1150, DENVER CO 80111, PHONE: 720.602.4999, FAX: 844.273.1057
 DRAWN BY: TBI, JOB DATE: 3/22/2023, BAR IS ONE INCH ON OFFICIAL DRAWINGS, 0" = 1"
 APPROVED: CMM, JOB NUMBER: 201662.03, IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
 CAD DATE: 3/27/2023
 CAD FILE: J:\2020\201662.03\CAD\Draws\C\GRADING

NO.	DATE	BY	REVISION DESCRIPTION

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

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

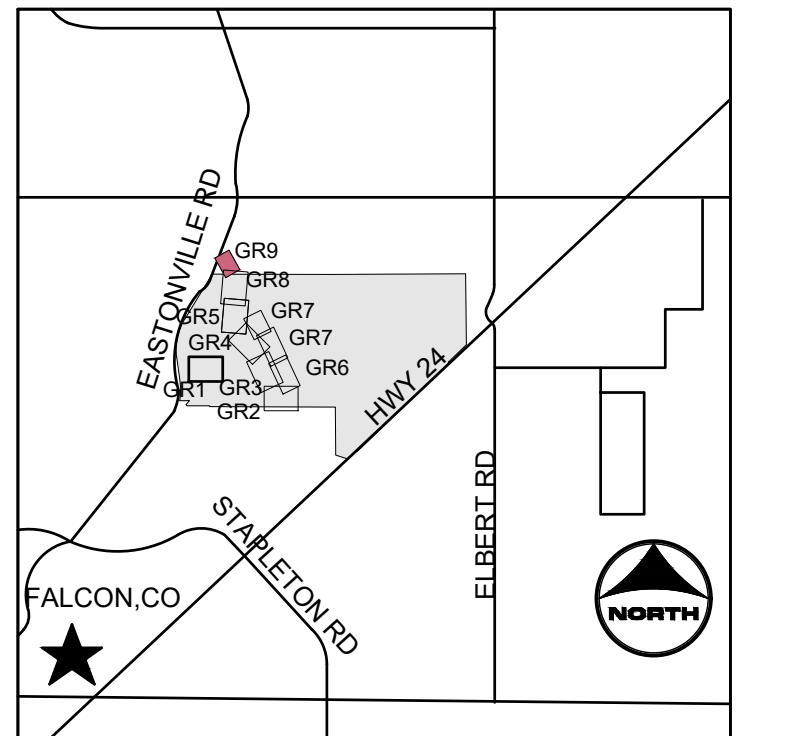
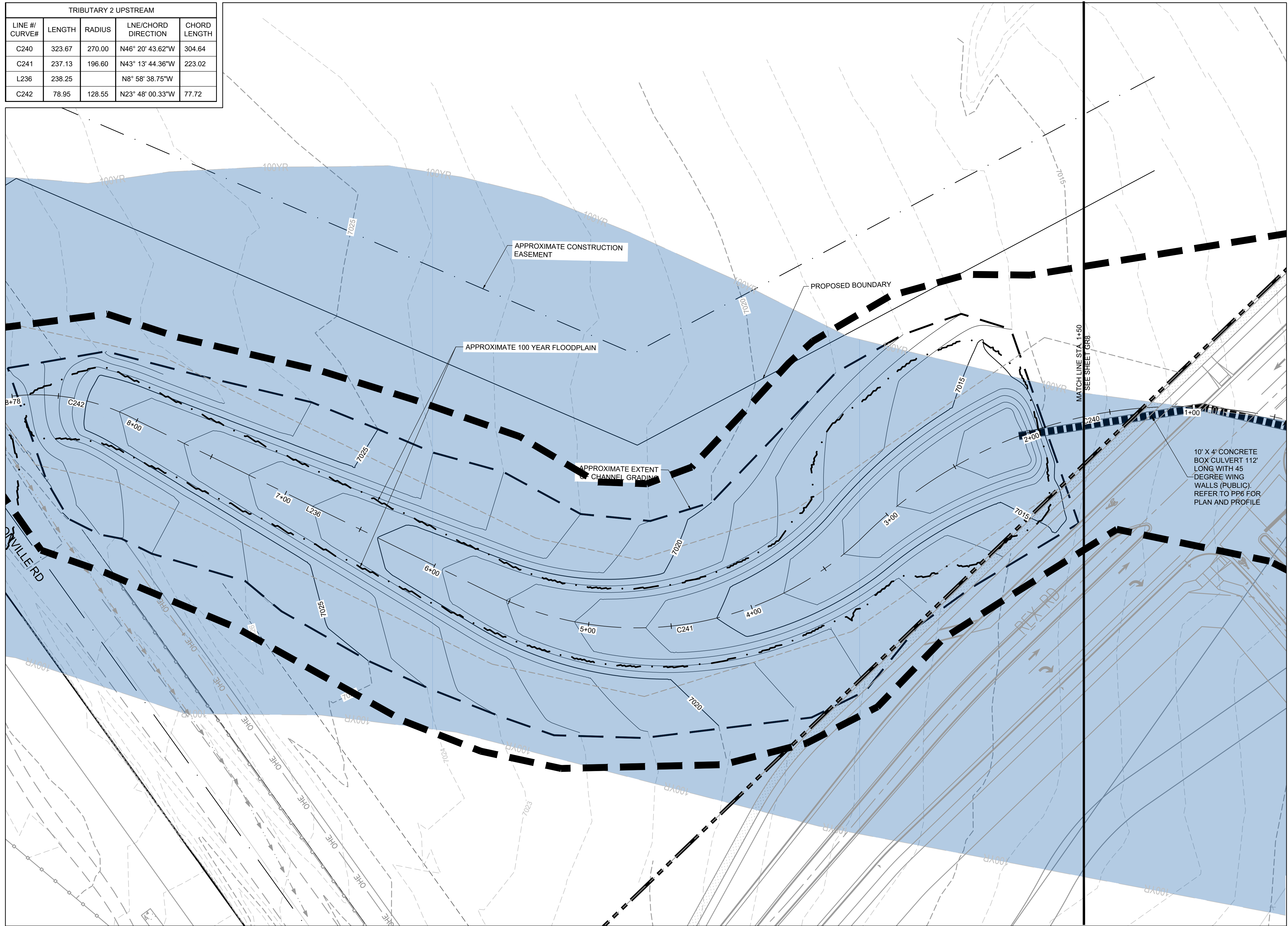
GRANDVIEW RESERVE (DRAINAGE A & B)
DR HORTON
 FALCON, COLORADO

CONSTRUCTION DOCUMENTS
 TRIBUTARY 2 VALLEY GRADING

SHEET
GR8
 12

TRIBUTARY 2 UPSTREAM

LINE # / CURVE#	LENGTH	RADIUS	LNE/CHORD DIRECTION	CHORD LENGTH
C240	323.67	270.00	N46° 20' 43.62"W	304.64
C241	237.13	196.60	N43° 13' 44.36"W	223.02
L236	238.25		N8° 58' 38.75"W	
C242	78.95	128.55	N23° 48' 00.33"W	77.72



PROJECT LEGEND:

- PROPERTY LINE
- ROAD CENTERLINE
- RIGHT-OF-WAY LINE
- SECTION LINE
- EXISTING EASEMENT
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- FLOW ARROW
- LIMITS OF CONSTRUCTION
- PROPOSED 100-YR FLOODPLAIN
- EFFECTIVE 100-YR FLOODPLAIN
- EXISTING WETLANDS
- PROPOSED MAINTENANCE TRAIL

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
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HR GREEN Xrefs: xgf1-dn01; GRADING KEY: 01-XC-PR_100YR_FP_DELINEATION; 01-XC-PR_100YR_FP_DELINEATION_A_HRG; 120X_EBase; xv-dgn_062; xc-dgn-062; 10; xc-row-F1-062; 10; xc-row-062; xv-ull_062; xv-row-062; xc-dgn-F3; xc-row-F3; xc-filing-bn-dgn; xc-row-F4; xc-dgn-F4; xc-channel; 01-XC-INITIAL-EC

DRAWN BY: TBI	JOB DATE: 3/22/2023	BAR IS ONE INCH ON OFFICIAL DRAWINGS:
APPROVED: CMM	JOB NUMBER: 201662.03	0
CAD DATE: 3/27/2023		IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
CAD FILE: J:120201201662.03\CAD\DWGS\C\GRADING		

NO.	DATE	BY	REVISION DESCRIPTION

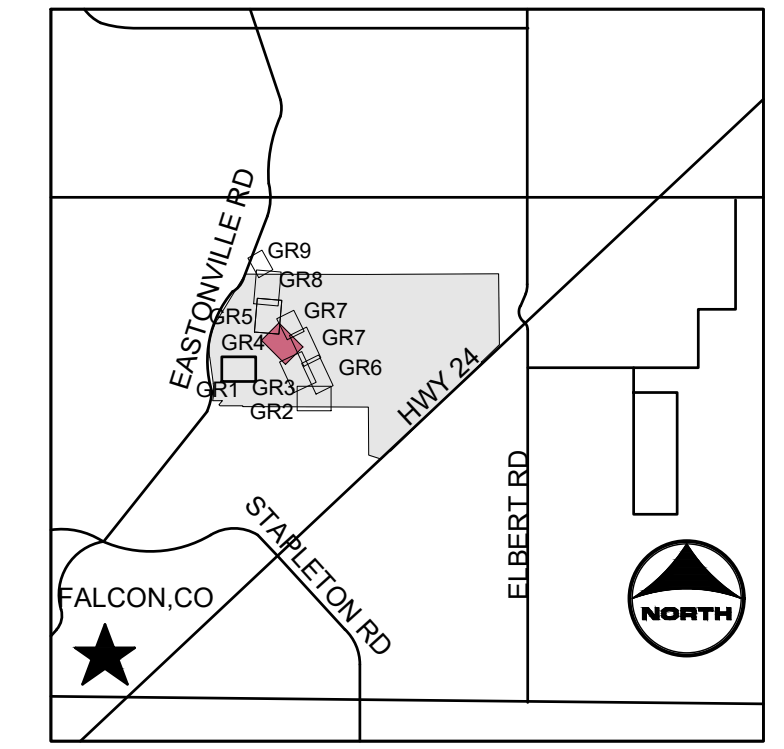
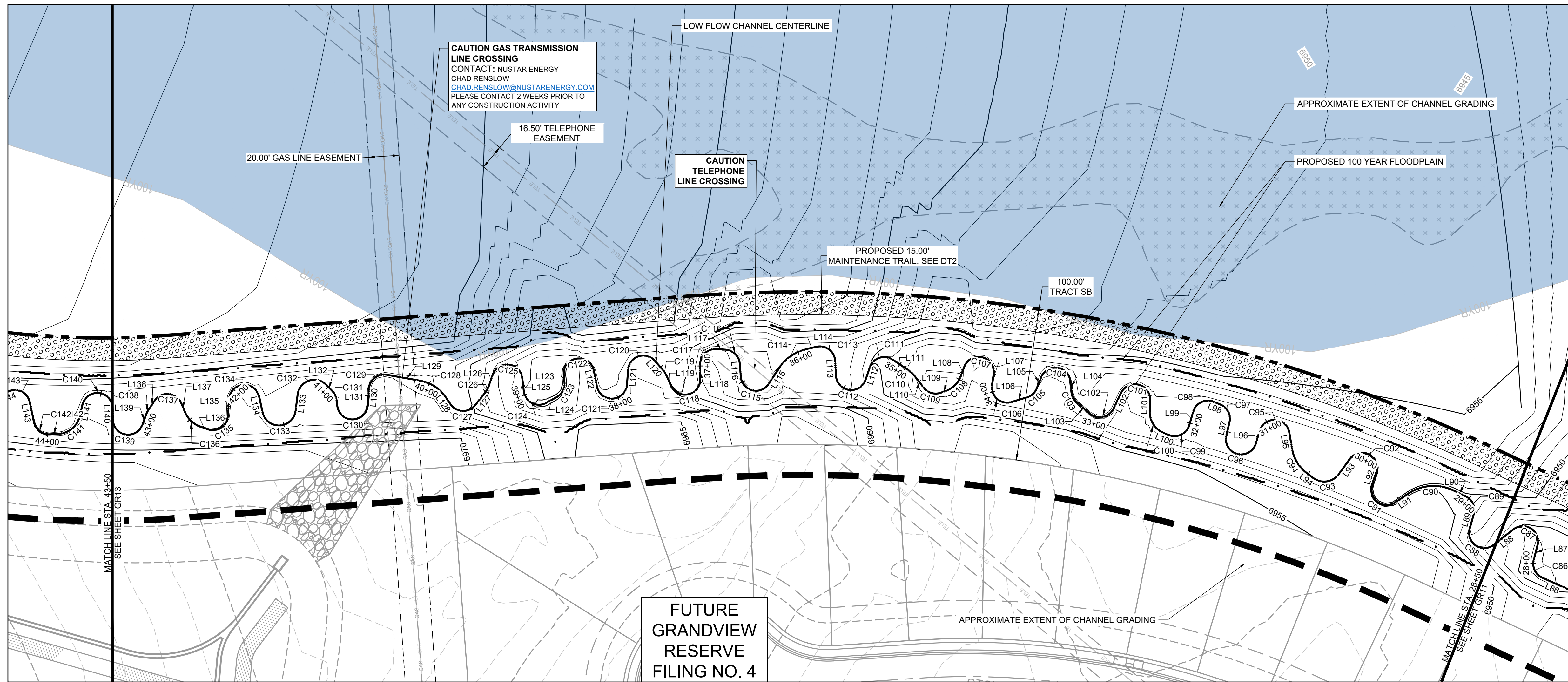
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GRANDVIEW RESERVE (DRAINAGE A & B)
DR HORTON
FALCON, COLORADO

CONSTRUCTION DOCUMENTS
TRIBUTARY 2 VALLEY GRADING

SHEET
GR9
13

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



PROJECT LEGEND:

- PROPERTY LINE
- ROAD CENTERLINE
- RIGHT-OF-WAY LINE
- SECTION LINE
- EXISTING EASEMENT
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- FLOW ARROW
- LIMITS OF CONSTRUCTION
- PROPOSED 100-YR FLOODPLAIN

- EFFECTIVE 100-YR FLOODPLAIN
- EXISTING WETLANDS
- PROPOSED MAINTENANCE TRAIL

- 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
 - 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.

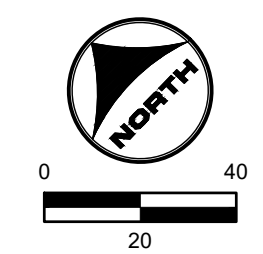
Line #/ Curve #	LENGTH	LINE/ CHORD DIRECTION	RADIUS	CHORD LENGTH
C88	25.60	N9° 49' 25.51"W	10.01	19.17
L89	9.40	N60° 58' 19.72"E		
C89	14.05	N20° 42' 28.75"E	10.00	12.93
L90	9.00	N19° 33' 20.48"W		
C90	31.24	N49° 23' 19.62"W	30.00	29.85
L91	9.97	N79° 13' 18.76"W		
C91	25.04	N7° 29' 02.80"W	10.00	18.99
L92	8.18	N64° 15' 13.15"E		
C92	28.54	N17° 30' 12.68"W	10.00	19.79
L93	12.06	S80° 44' 21.49"W		
C93	19.18	N53° 27' 44.45"W	12.00	17.21
L94	5.34	N7° 39' 51.64"W		
C94	18.75	N13° 48' 59.59"E	25.00	18.31
L95	10.94	N35° 17' 50.82"E		
C95	26.76	N41° 22' 36.53"W	10.00	19.46
L96	8.88	S61° 56' 54.42"W		
C96	30.75	N29° 57' 02.15"W	10.00	19.99
L97	9.16	N58° 09' 01.28"E		
C97	14.05	N17° 54' 31.25"E	10.00	12.92
L98	4.80	N22° 19' 58.77"W		
C98	16.81	N70° 28' 52.54"W	10.00	14.90
L99	9.34	S61° 22' 13.69"W		

Line #/ Curve #	LENGTH	LINE/ CHORD DIRECTION	RADIUS	CHORD LENGTH
C99	16.60	N71° 05' 03.19"W	10.00	14.76
L100	3.40	N23° 32' 19.06"W		
C100	18.39	N11° 35' 14.13"E	15.00	17.26
L101	7.45	N46° 42' 47.32"E		
C101	27.23	N31° 16' 54.81"W	10.00	19.56
L102	11.56	S70° 43' 23.06"W		
C102	18.45	N56° 25' 05.12"W	10.00	15.94
L103	11.04	N3° 33' 33.30"W		
C103	7.18	N17° 00' 28.86"E	10.00	7.03
L104	7.94	N37° 34' 32.53"E		
C104	26.39	N38° 01' 19.21"W	10.00	19.37
L105	7.71	S66° 22' 49.05"W		
C105	9.04	N87° 43' 09.16"W	10.00	8.74
L106	10.63	N61° 49' 07.38"W		
C106	20.13	N4° 08' 31.80"W	10.00	16.90
L107	7.18	N53° 32' 03.79"E		
C107	29.03	N29° 37' 53.19"W	10.00	19.86
L108	7.51	S65° 47' 53.53"W		
C108	12.50	S89° 40' 03.85"W	15.00	12.14
L109	4.30	N66° 27' 45.83"W		
C109	12.86	N29° 37' 38.53"W	10.00	11.99
L110	9.31	N7° 12' 29.90"E		

Line #/ Curve #	LENGTH	LINE/ CHORD DIRECTION	RADIUS	CHORD LENGTH
C110	6.34	N1° 52' 20.28"W	20.00	6.31
L111	12.01	N10° 57' 10.46"W		
C111	18.36	N63° 33' 38.89"W	10.00	15.89
L112	8.57	S63° 49' 52.68"W		
C112	27.63	N37° 01' 43.76"W	10.00	19.64
L113	9.63	N42° 06' 38.48"E		
C113	17.41	N7° 45' 10.26"W	10.00	15.29
L114	6.55	N57° 36' 59.00"W		
C114	23.33	N79° 53' 57.95"W	30.00	22.75
L115	11.69	S77° 49' 02.26"W		
C115	24.92	N30° 47' 49.85"W	10.00	18.95
L116	8.54	N40° 35' 18.03"E		
C116	14.25	N0° 13' 44.58"W	10.00	13.07
L117	6.03	N41° 02' 45.55"W		
C117	16.43	N88° 07' 30.46"W	10.00	14.65
L118	9.89	S44° 47' 44.63"W		
C118	27.21	N57° 14' 52.82"W	10.00	19.56
L119	6.59	N20° 42' 28.68"E		
C119	6.02	N12° 04' 56.94"E	20.00	6.00
L120	7.20	N3° 27' 24.15"E		
C120	23.46	N63° 44' 54.30"W	10.00	18.44
L121	9.75	S49° 02' 47.25"W		

Line #/ Curve #	LENGTH	LINE/ CHORD DIRECTION	RADIUS	CHORD LENGTH
C121	28.82	N48° 22' 34.68"W	10.00	19.83
L122	10.32	N34° 12' 03.40"E		
C122	30.57	N53° 22' 36.38"W	10.00	19.98
L123	4.56	S39° 02' 43.84"W		
C123	11.68	S72° 30' 24.37"W	10.00	11.03
L124	7.77	N74° 01' 55.09"W		
C124	19.62	N17° 48' 40.14"W	10.00	16.62
L125	8.77	N38° 24' 34.82"E		
C125	26.96	N38° 49' 54.33"W	10.00	19.51
L126	6.80	S63° 55' 35.19"W		
C126	6.95	S73° 52' 28.77"W	20.00	6.91
L127	9.62	S83° 49' 22.37"W		
C127	18.49	N43° 12' 01.69"W	10.00	15.97
L128	6.51	N9° 46' 34.25"E		
C128	19.46	N12° 31' 16.03"W	25.00	18.97
L129	22.46	N34° 49' 06.32"W		
C129	16.69	N82° 37' 49.88"W	10.00	14.82
L130	11.08	S49° 33' 25.22"W		
C130	29.21	N46° 45' 12.25"W	10.00	19.88
L131	4.58	N36° 56' 10.28"E		
C131	6.28	N18° 56' 28.97"E	10.00	6.18
L132	5.56	N0° 56' 47.66"E		

Line #/ Curve #	LENGTH	LINE/ CHORD DIRECTION	RADIUS	CHORD LENGTH
C132	24.70	N63° 23' 02.96"W	11.00	19.83
L133	10.86	S52° 17' 06.42"W		
C133	30.80	N47° 30' 08.73"W	11.00	21.68
L134	10.39	N32° 42' 36.11"E		
C134	28.56	N49° 06' 33.36"W	10.00	19.80
L135	11.09	S49° 04' 18.88"W		
C135	18.28	N78° 32' 58.75"W	10.00	15.84
L136	4.96	N26° 10' 15.15"W		
C136	14.36	N1° 57' 51.31"W	17.00	13.94
L137	6.32	N22° 14' 32.53"E		
C137	21.42	N39° 07' 50.41"W	10.00	17.56
L138	6.17	S79° 29' 45.47"W		
C138	5.15	S72° 07' 04.39"W	20.00	5.14
L139	6.44	S64° 44' 22.55"W		
C139	27.69	N35° 56' 37.45"W	10.00	19.65



811 UNCC CALL BEFORE YOU DIG
 811 OR 1-800-922-1987
 Utility Notification Center of Colorado

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\CIGRADING

NO.	DATE	BY	REVISION DESCRIPTION

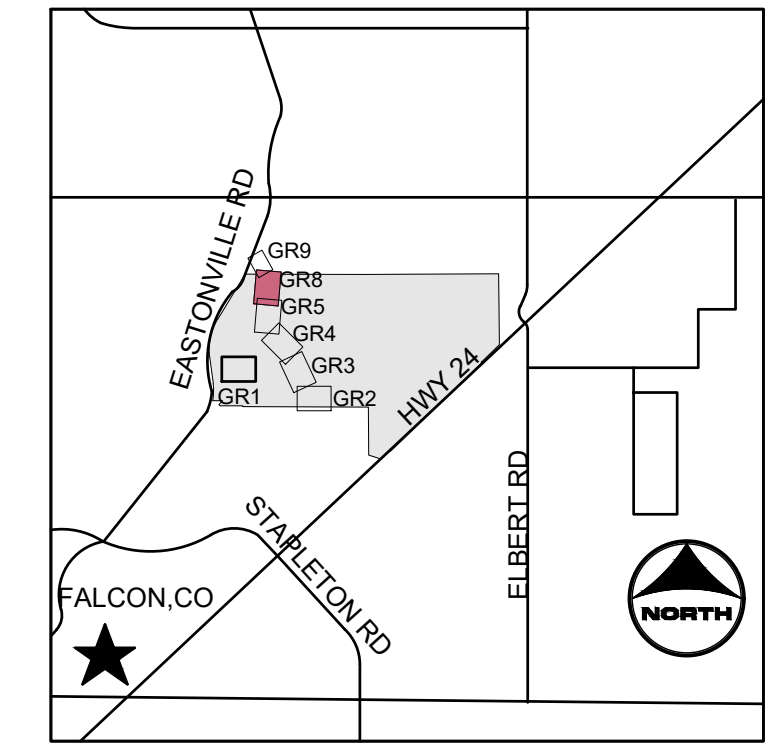
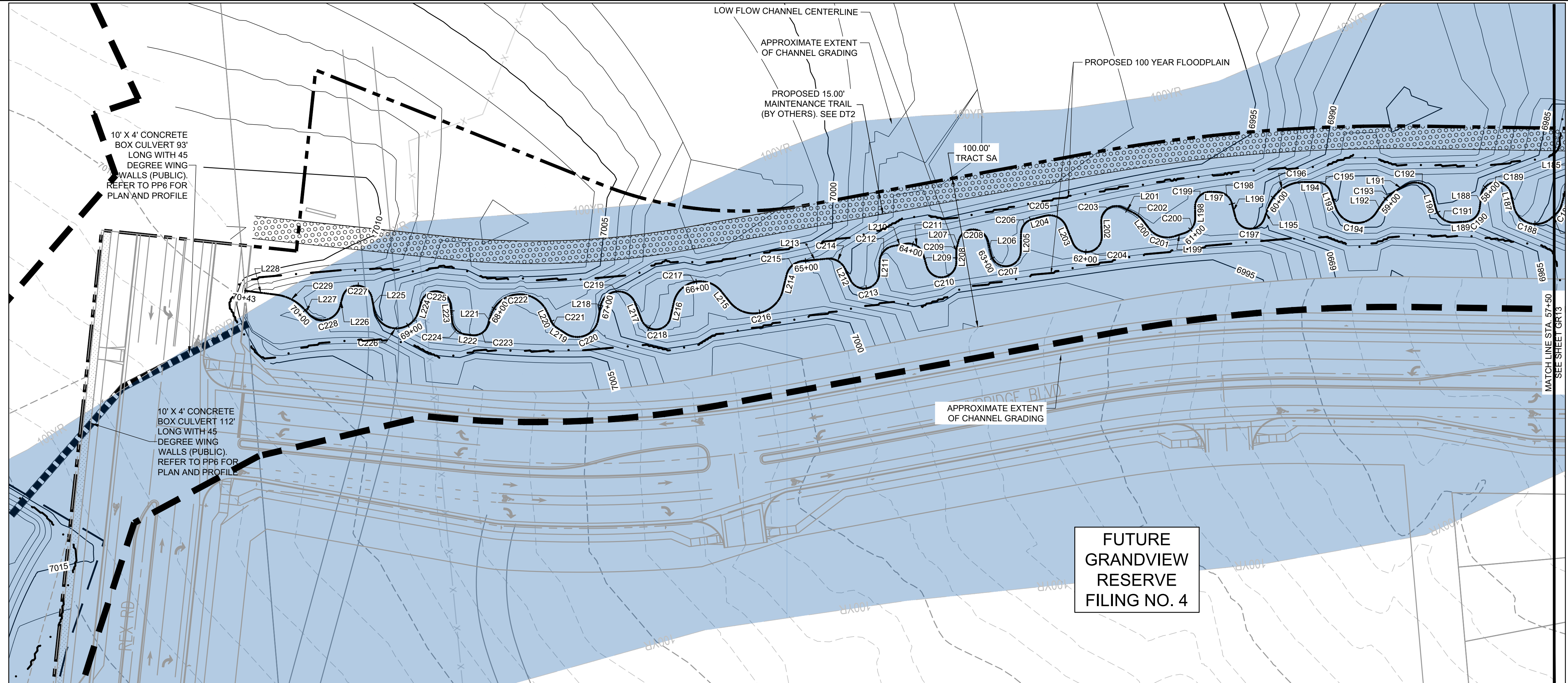
HRGreen
 HR GREEN - DENVER
 5619 DTC PARKWAY SUITE 1150
 DENVER CO 80111
 PHONE: 720.602.4999
 FAX: 844.273.1057

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

CONSTRUCTION DOCUMENTS
 TRIBUTARY 2 BANKFULL GRADING

SHEET
GR12
 16

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



KEYMAP

PROJECT LEGEND:

--- (dashed line)	PROPERTY LINE
— (solid line)	ROAD CENTERLINE
- - - (long dashed line)	RIGHT-OF-WAY LINE
---	SECTION LINE
- - -	EXISTING EASEMENT
---	PROPOSED MAJOR CONTOUR
---	PROPOSED MINOR CONTOUR
---	EXISTING MAJOR CONTOUR
---	EXISTING MINOR CONTOUR
→ (arrow)	FLOW ARROW
- - -	LIMITS OF CONSTRUCTION
- - - (thick)	PROPOSED 100-YR FLOODPLAIN
(shaded area)	EFFECTIVE 100-YR FLOODPLAIN
(hatched area)	EXISTING WETLANDS
(dotted area)	PROPOSED MAINTENANCE TRAIL

FUTURE GRANDVIEW RESERVE FILING NO. 4

- 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.
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TRIBUTARY 2 BANKFULL

Line #/ Curve #	LENGTH	LINE/ CHORD DIRECTION	RADIUS	CHORD LENGTH
C188	31.01	N23° 03' 08.00"E	15.00	25.77
L187	8.57	N82° 16' 20.45"E		
C189	27.86	N2° 27' 47.70"E	10.00	19.68
L188	8.98	N77° 20' 45.04"W		
C190	13.59	N38° 24' 33.75"W	10.00	12.57
L189	7.25	N0° 31' 37.54"E		
C191	16.68	N40° 20' 56.81"E	12.00	15.37
L190	8.96	N80° 10' 17.29"E		
C192	21.88	N27° 56' 06.99"E	12.00	18.97
L191	8.16	N24° 18' 02.22"W		
C193	11.91	N37° 57' 08.05"W	25.00	11.80
L192	7.82	N51° 36' 13.15"W		
C194	33.65	N12° 39' 37.26"E	15.00	27.02
L193	10.43	N76° 55' 28.56"E		
C195	12.48	N41° 09' 53.91"E	10.00	11.69
L194	8.34	N5° 24' 21.11"E		
C196	31.18	N30° 19' 39.76"W	25.00	29.20
L195	7.80	N66° 03' 40.62"W		
C197	25.58	N7° 13' 52.01"E	10.00	19.16
L196	9.62	N80° 31' 24.64"E		
C198	12.73	N44° 03' 44.76"E	10.00	11.89
L197	4.77	N7° 36' 03.07"E		

TRIBUTARY 2 BANKFULL

Line #/ Curve #	LENGTH	LINE/ CHORD DIRECTION	RADIUS	CHORD LENGTH
C199	16.25	N38° 56' 32.72"W	10.00	14.52
L198	7.68	N85° 29' 08.51"W		
C200	12.69	N49° 08' 07.23"W	10.00	11.85
L199	7.41	N12° 47' 05.96"W		
C201	18.38	N22° 19' 25.40"E	15.00	17.25
L200	6.36	N57° 25' 56.76"E		
C202	9.39	N43° 58' 55.22"E	20.00	9.30
L201	7.15	N30° 31' 53.67"E		
C203	20.51	N28° 13' 22.72"W	10.00	17.10
L202	9.76	N86° 58' 39.11"W		
C204	27.90	N7° 03' 17.54"W	10.00	19.69
L203	11.50	N72° 52' 05.09"E		
C205	17.33	N31° 30' 17.31"E	12.00	15.86
L204	8.67	N9° 51' 30.46"W		
C206	13.00	N47° 06' 03.14"W	10.00	12.10
L205	11.78	N84° 20' 35.82"W		
C207	28.95	N1° 25' 03.64"W	10.00	19.85
L206	9.39	N81° 30' 28.54"E		
C208	26.62	N5° 15' 07.22"E	10.00	19.43
L207	4.72	N71° 00' 14.11"W		
C209	2.40	N77° 53' 34.21"W	10.00	2.40
L208	7.28	N84° 46' 54.32"W		

TRIBUTARY 2 BANKFULL

Line #/ Curve #	LENGTH	LINE/ CHORD DIRECTION	RADIUS	CHORD LENGTH
C210	28.51	N3° 07' 09.79"W	10.00	19.79
L209	8.46	N78° 32' 34.74"E		
C211	14.61	N36° 42' 02.06"E	10.00	13.34
L210	8.67	N5° 08' 30.61"W		
C212	14.91	N43° 58' 27.24"W	11.00	13.79
L211	8.19	N82° 48' 23.87"W		
C213	26.57	N6° 41' 31.89"W	10.00	19.42
L212	8.16	N69° 25' 20.09"E		
C214	14.65	N34° 26' 50.24"E	12.00	13.76
L213	16.46	N0° 31' 38.34"W		
C215	14.80	N35° 50' 59.34"W	12.00	13.88
L214	10.77	N71° 10' 19.33"W		
C216	44.55	N7° 21' 53.33"W	20.00	35.89
L215	8.98	N56° 26' 32.67"E		
C217	40.28	N7° 39' 50.77"W	18.00	32.39
L216	10.56	N72° 16' 23.80"W		
C218	25.52	N0° 49' 59.43"E	10.00	19.14
L217	11.94	N73° 56' 22.67"E		
C219	31.22	N0° 35' 35.12"W	12.00	23.13
L218	8.82	N75° 07' 32.91"W		
C220	27.28	N19° 18' 27.19"W	14.00	23.16
L219	7.63	N38° 03' 34.92"E		

TRIBUTARY 2 BANKFULL

Line #/ Curve #	LENGTH	LINE/ CHORD DIRECTION	RADIUS	CHORD LENGTH
C221	5.69	N54° 20' 47.67"E	10.00	5.61
L220	6.73	N70° 37' 59.36"E		
C222	48.94	N0° 31' 49.94"E	20.00	37.61
L221	5.41	N69° 34' 19.48"W		
C223	14.28	N28° 39' 19.30"W	10.00	13.10
L222	4.50	N12° 15' 40.88"E		
C224	13.50	N50° 56' 31.94"E	10.00	12.50
L223	10.57	N89° 37' 23.01"E		
C225	27.53	N10° 45' 04.72"E	10.00	19.62
L224	7.19	N68° 07' 13.58"W		
C226	39.83	N7° 57' 20.84"E	15.00	29.12
L225	8.26	N84° 01' 56.33"E		
C227	26.80	N7° 15' 53.12"E	10.00	19.47
L226	7.02	N69° 30' 11.53"W		
C228	25.40	N8° 52' 21.36"W	12.00	20.92
L227	5.33	N51° 45' 28.05"E		
C229	20.70	N31° 59' 12.89"E	30.00	20.30
L228	21.01	N12° 12' 56.98"E		

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

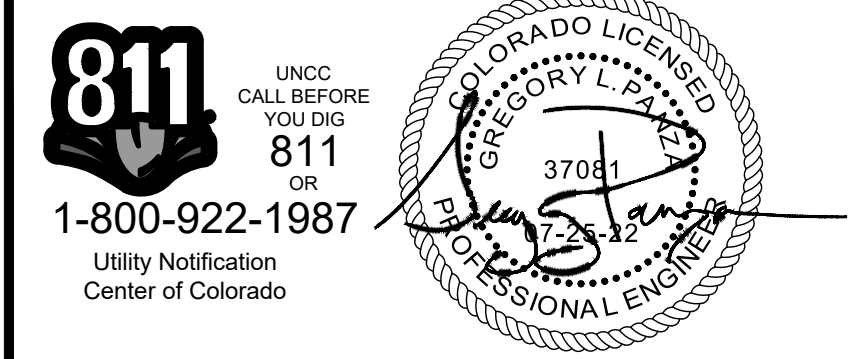
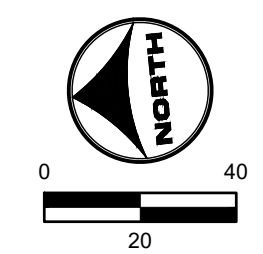
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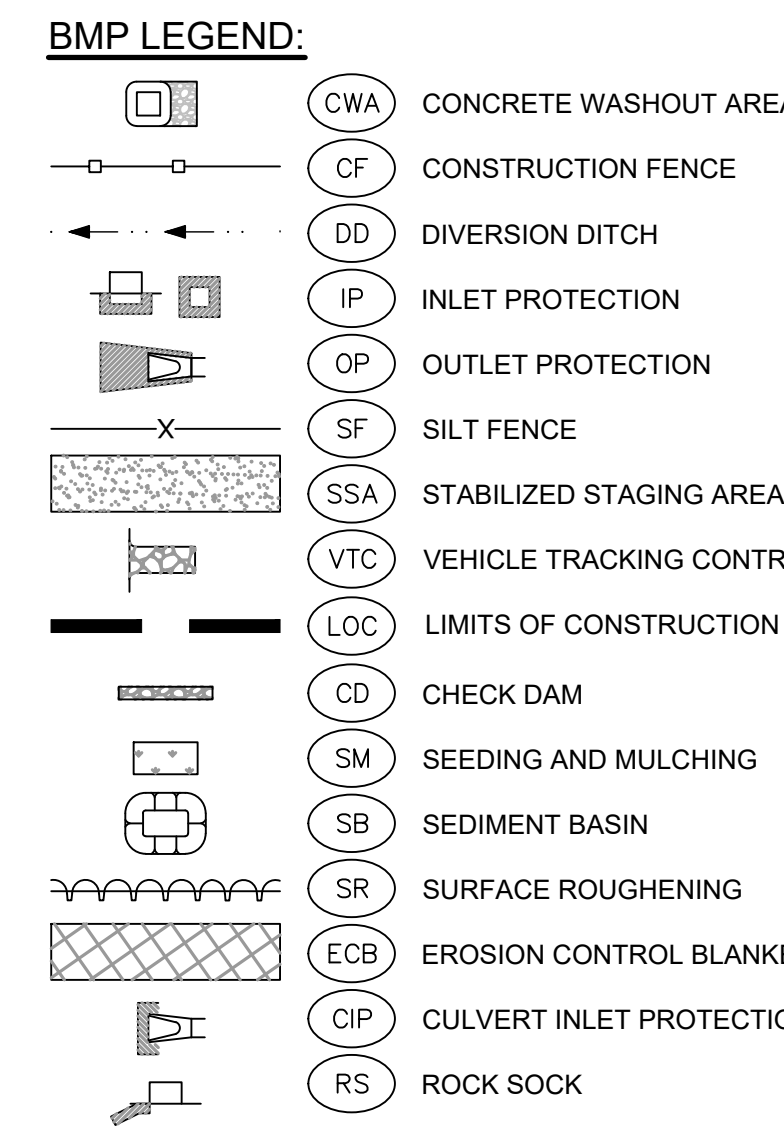
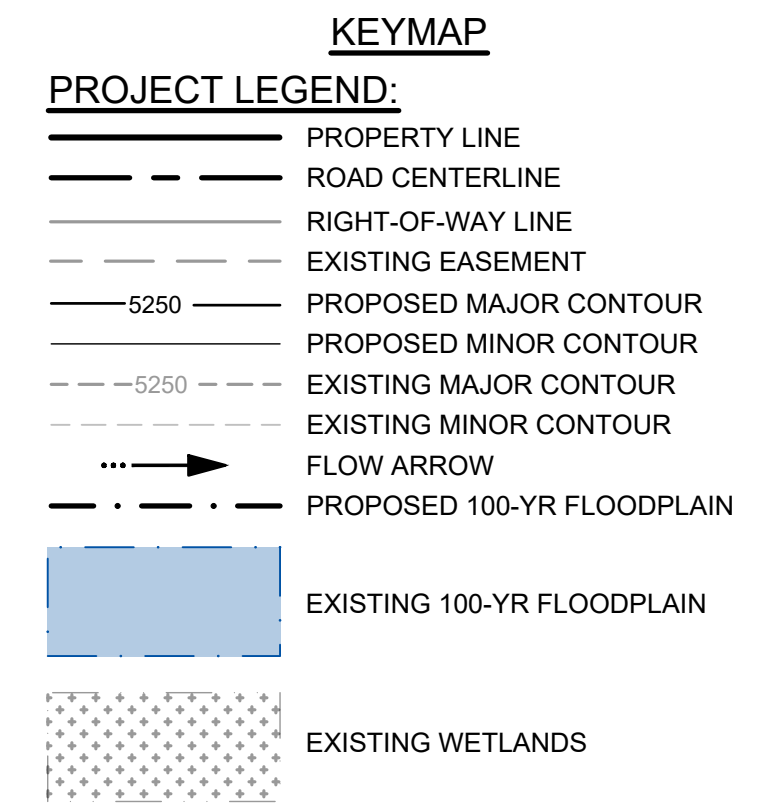
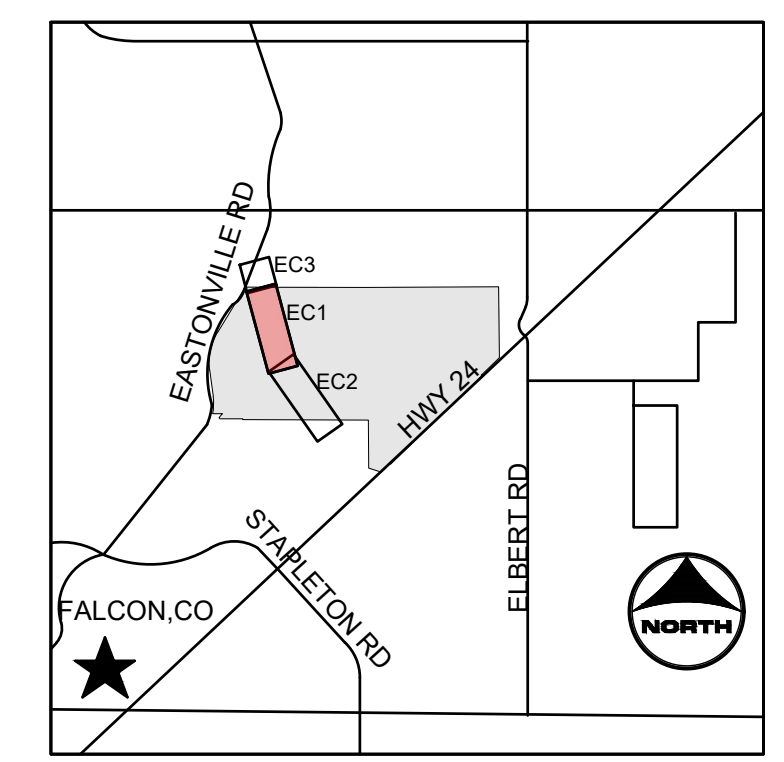
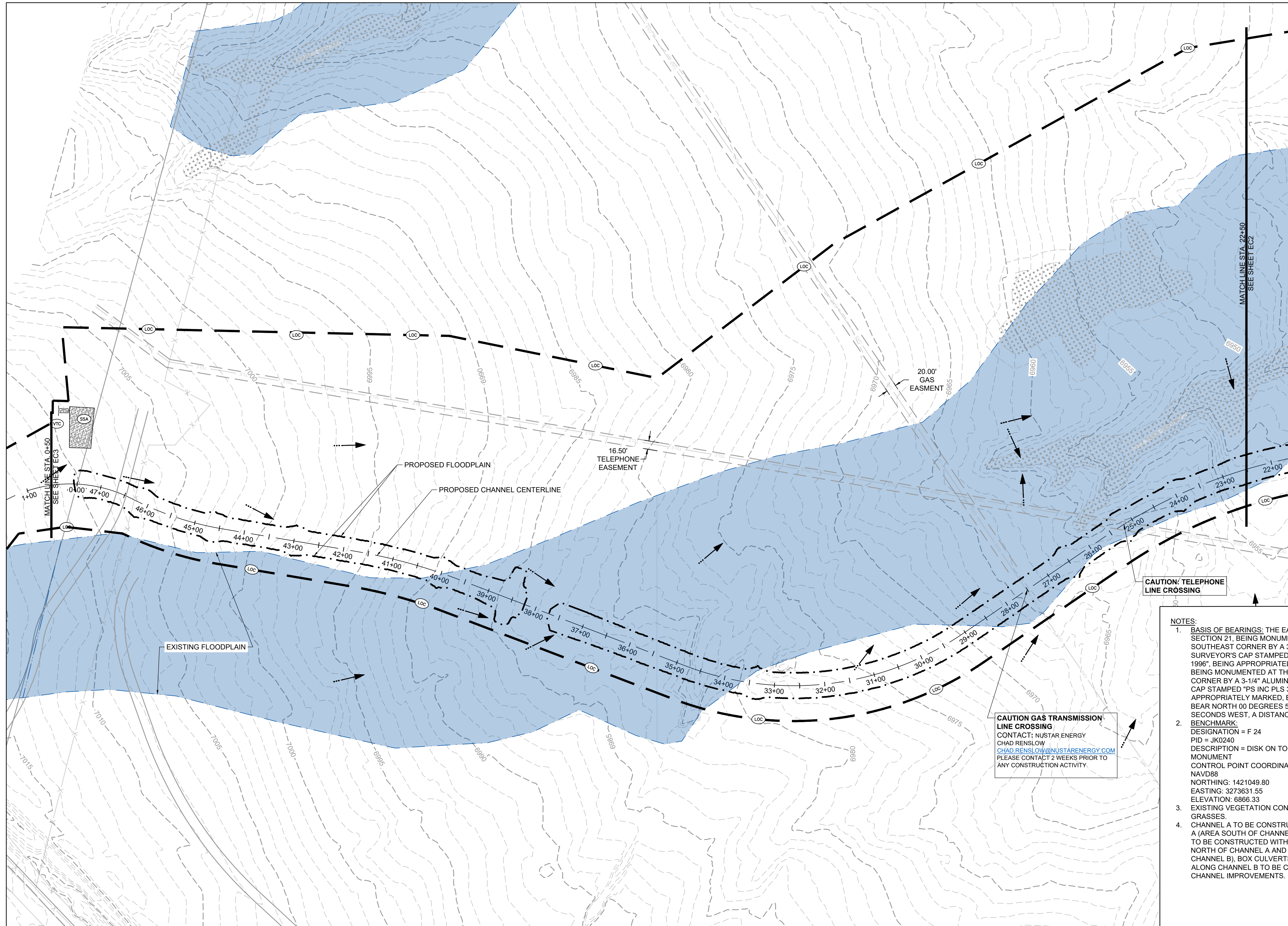
HR Green HR GREEN - DENVER
 5619 DTC PARKWAY SUITE 1150
 DENVER CO 80111
 PHONE: 720.602.4999
 FAX: 844.273.1057

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

CONSTRUCTION DOCUMENTS
 TRIBUTARY 2 BANKFULL GRADING

SHEET
GR14
 18



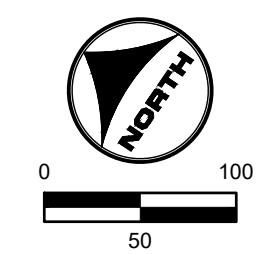


NOTES:

- 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.
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NORTHING: 1421049.80
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ELEVATION: 6866.33
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- 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.

CAUTION GAS TRANSMISSION LINE CROSSING
CONTACT: NUSTAR ENERGY
CHAD RENSLow@NUSTARENERGY.COM
PLEASE CONTACT 2 WEEKS PRIOR TO ANY CONSTRUCTION ACTIVITY.

CAUTION: TELEPHONE LINE CROSSING



811 UNCC CALL BEFORE YOU DIG
811 OR 1-800-922-1987
Utility Notification Center of Colorado

HR GREEN Xref: xref: -d:\01 - INITIAL EROSION CONTROL KEY: 01-XC-PR-100YR-FP-DELINERATION

DRAWN BY: TBI	JOB DATE: 3/22/2023	BAR IS ONE INCH ON OFFICIAL DRAWINGS: 1"
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CAD DATE: 3/27/2023		
CAD FILE: J:\2020\201662.03\CAD\dwgs\C\INITIAL EROSION CONTROL		

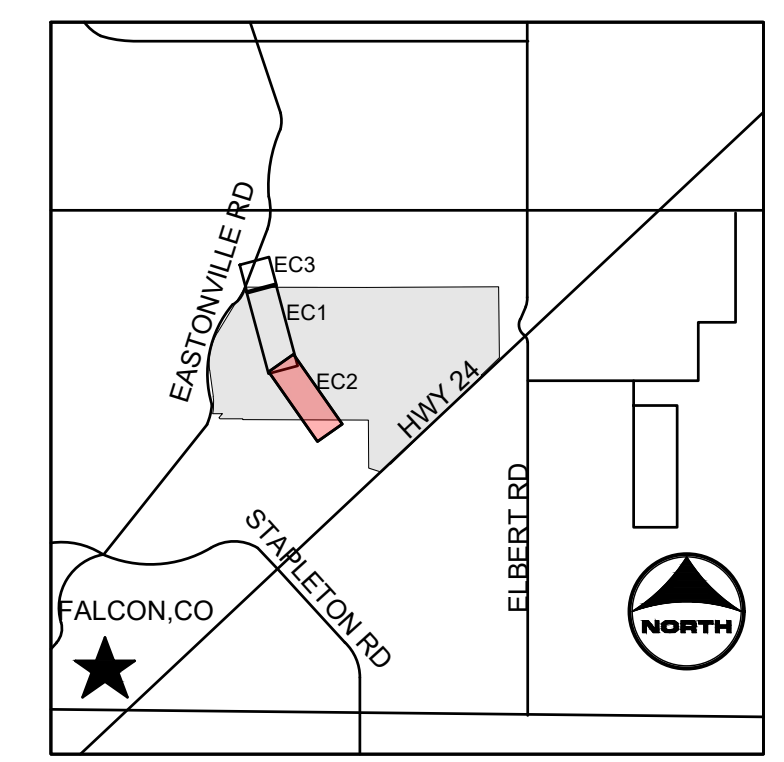
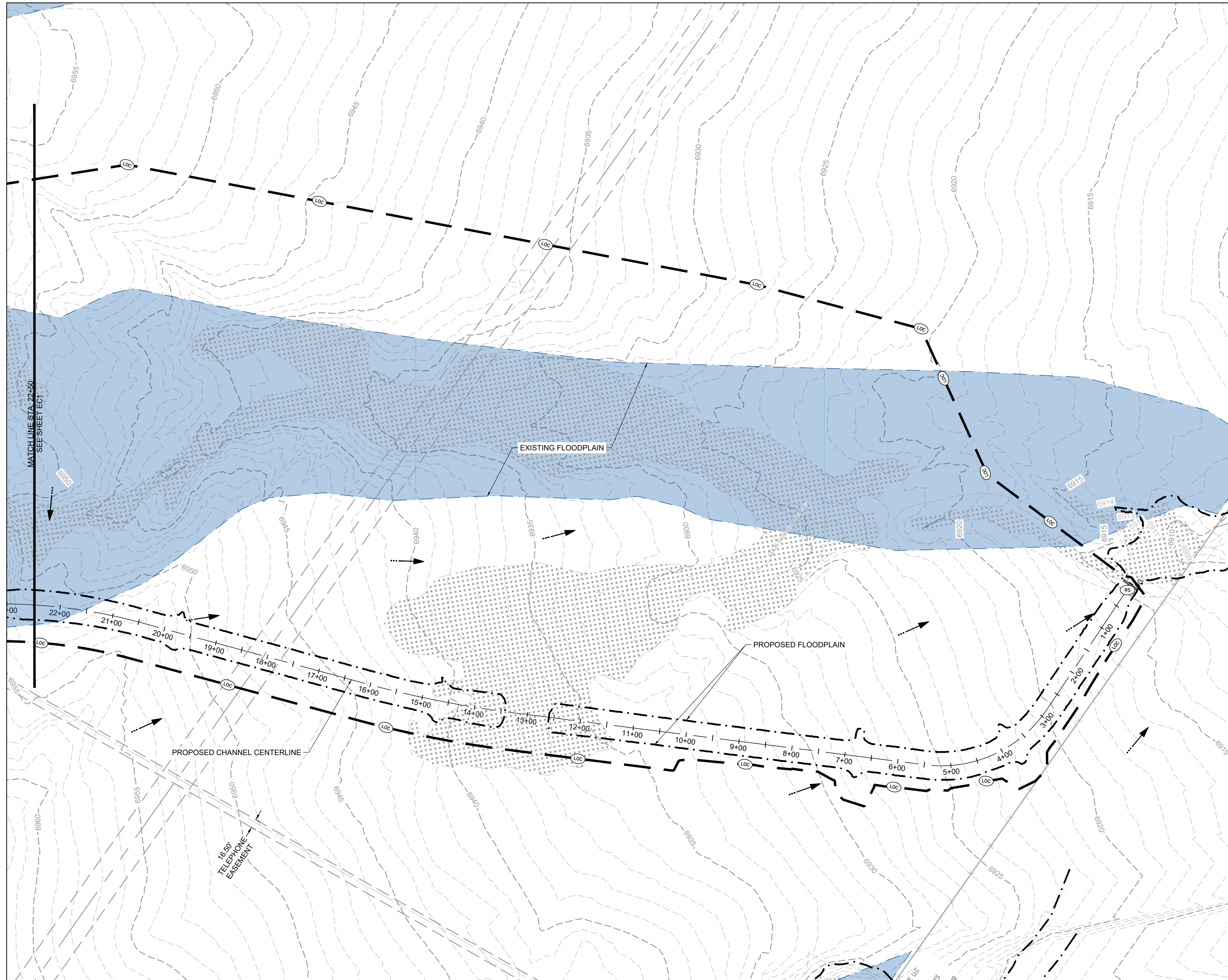
NO.	DATE	BY	REVISION DESCRIPTION

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
INITIAL EROSION CONTROL

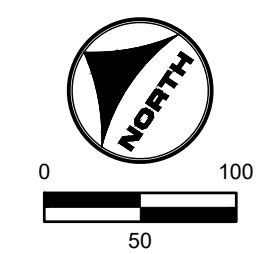
SHEET
EC1
19



- PROJECT LEGEND:**
- PROPERTY LINE
 - ROAD CENTERLINE
 - RIGHT-OF-WAY LINE
 - - - EXISTING EASEMENT
 - 5250— PROPOSED MAJOR CONTOUR
 - - -5250- - - EXISTING MAJOR CONTOUR
 - - - EXISTING MINOR CONTOUR
 - FLOW ARROW
 - - - PROPOSED 100-YR FLOODPLAIN
 - EXISTING 100-YR FLOODPLAIN
 - EXISTING WETLANDS

- BMP LEGEND:**
- CWA CONCRETE WASHOUT AREA
 - CF CONSTRUCTION FENCE
 - DD DIVERSION DITCH
 - IP INLET PROTECTION
 - OP OUTLET PROTECTION
 - SF SILT FENCE
 - SSA STABILIZED STAGING AREA
 - VTC VEHICLE TRACKING CONTROL
 - LOC LIMITS OF CONSTRUCTION
 - CD CHECK DAM
 - SM SEEDING AND MULCHING
 - SB SEDIMENT BASIN
 - SR SURFACE ROUGHENING
 - ECB EROSION CONTROL BLANKET
 - CIP CULVERT INLET PROTECTION
 - RS ROCK SOCK

- 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
 - 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.



811 UNCC CALL BEFORE YOU DIG
811 OR 1-800-922-1987
Utility Notification Center of Colorado

HR GREEN Xref: xref: -d:\01 - INITIAL EROSION CONTROL KEY: 01-XC-INITIAL EC: HRG: 20X_EBase: 01-XC-PR-100YR_FP_DELINEATION

DRAWN BY: TBI	JOB DATE: 3/22/2023	BAR IS ONE INCH ON OFFICIAL DRAWINGS: 0
APPROVED: CMM	JOB NUMBER: 201662.03	IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
CAD DATE: 3/27/2023		
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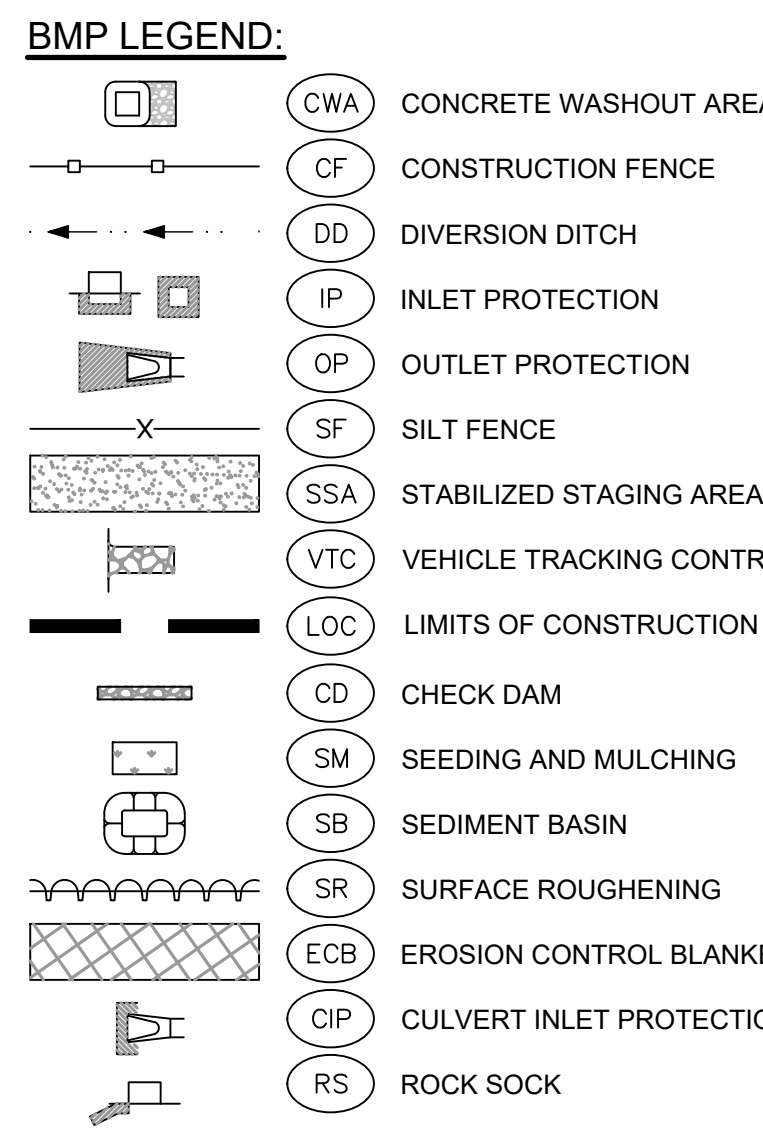
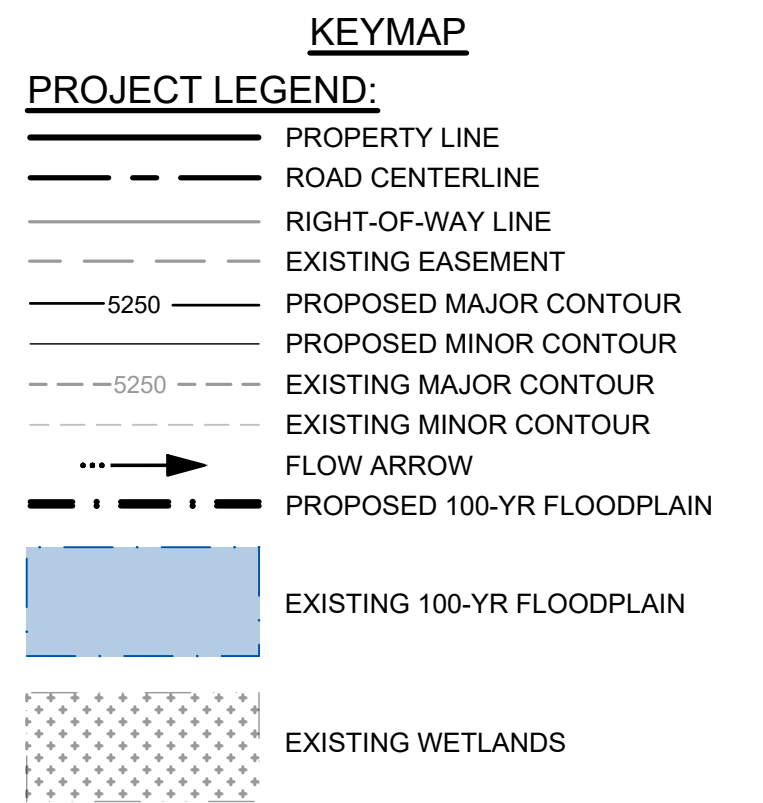
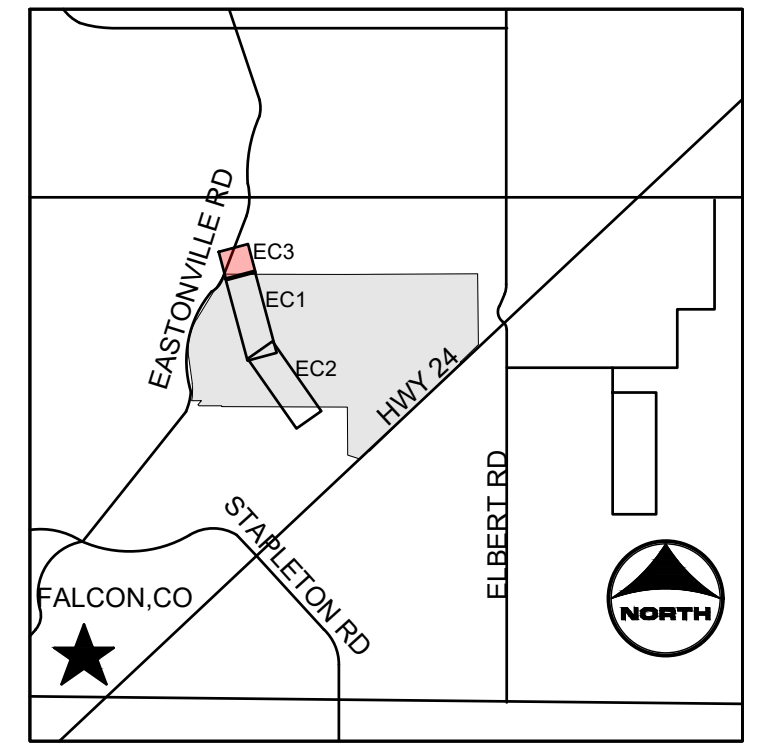
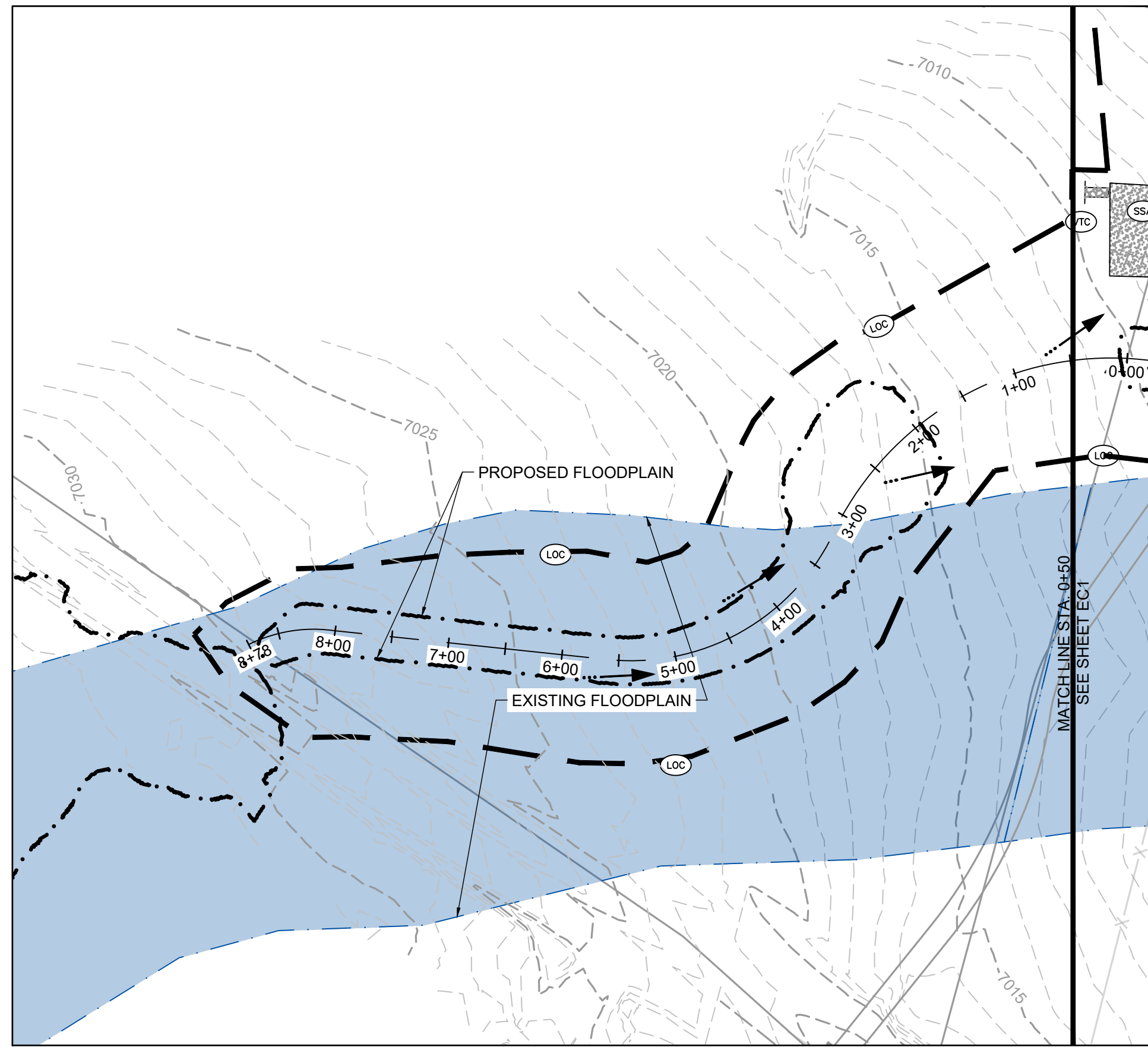
NO.	DATE	BY	REVISION DESCRIPTION

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

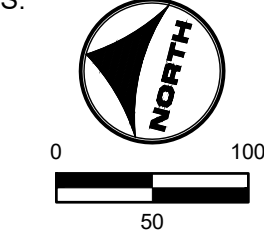
CONSTRUCTION DOCUMENTS
INITIAL EROSION CONTROL

SHEET
EC2
20



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
- 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.



811 UNCC CALL BEFORE YOU DIG
 811 OR 1-800-922-1987
 Utility Notification Center of Colorado

PROFESSIONAL ENGINEER
 GREGORY L. PARKS
 37081
 7-25-12

HR GREEN Xref: xref: xref: xref: INITIAL EROSION CONTROL KEY: 01-XC-PR-100YR-FP-DELINEATION

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\IC\INITIAL EROSION CONTROL		

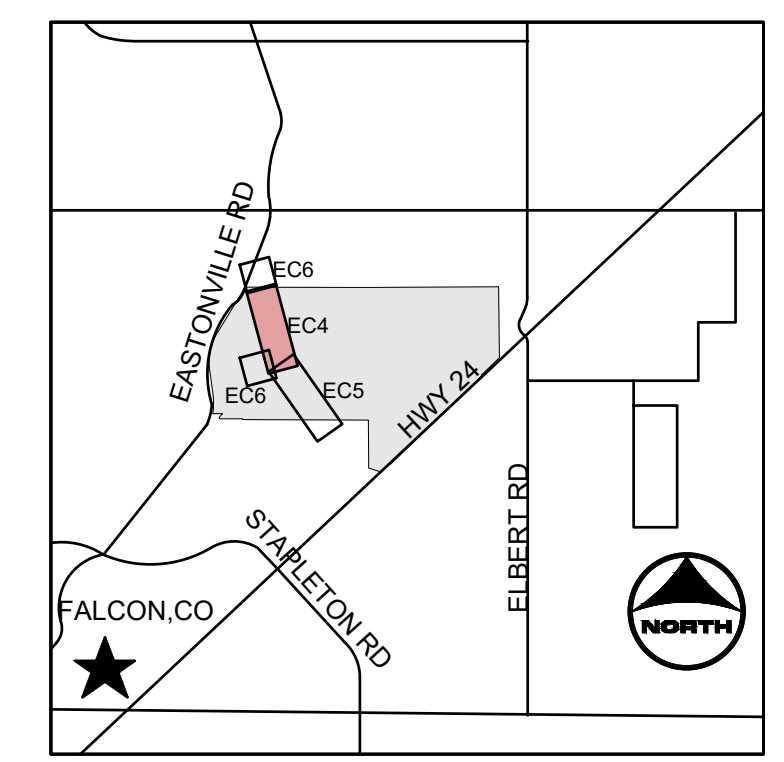
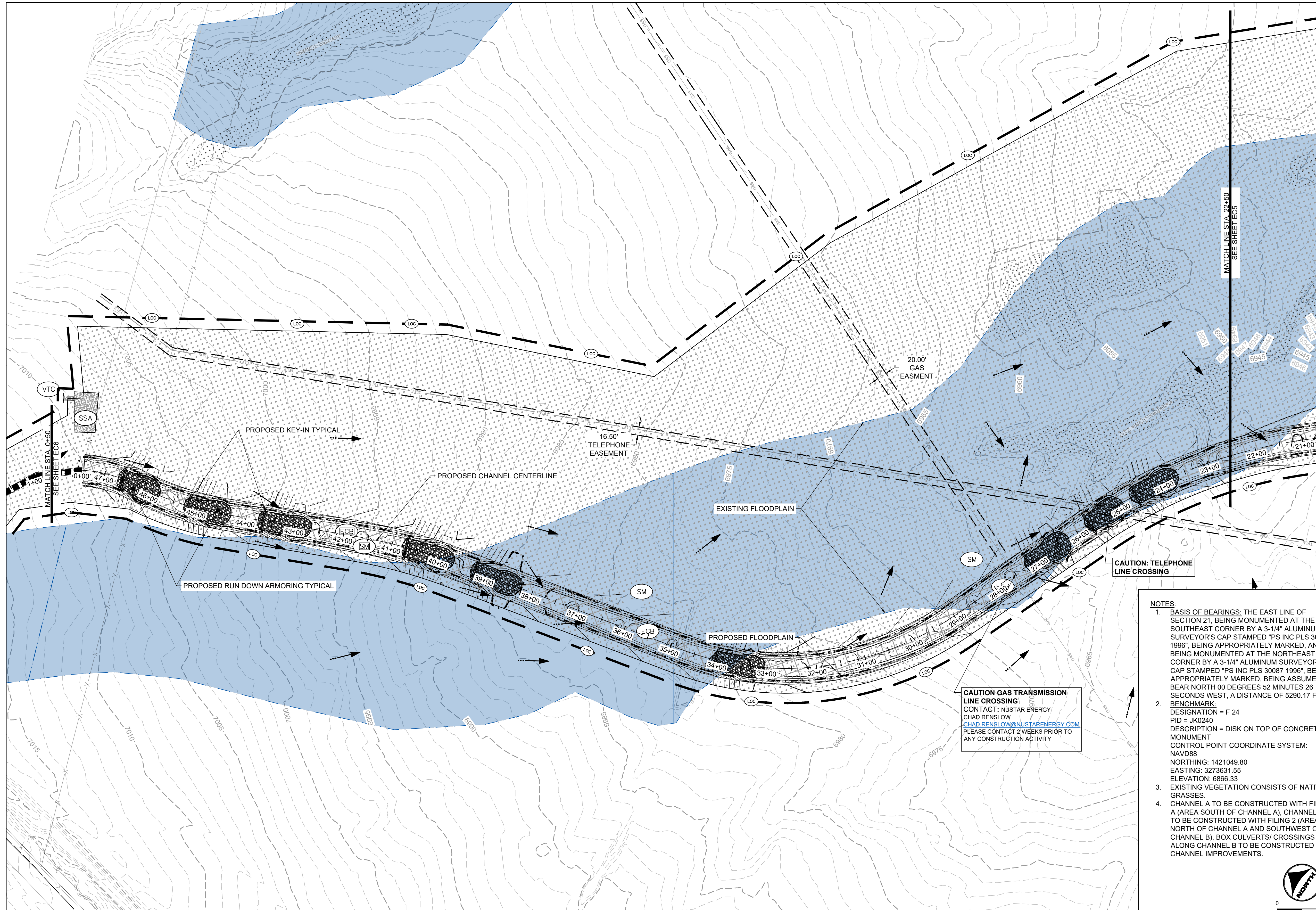
NO.	DATE	BY	REVISION DESCRIPTION

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
 INITIAL EROSION CONTROL

SHEET
EC3
 21



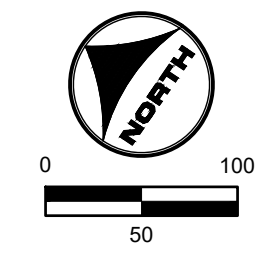
- KEYMAP**
- PROJECT LEGEND:**
- PROPERTY LINE
 - ROAD CENTERLINE
 - RIGHT-OF-WAY LINE
 - 5250 PROPOSED MAJOR CONTOUR
 - 5250 PROPOSED MINOR CONTOUR
 - 5250 EXISTING MAJOR CONTOUR
 - 5250 EXISTING MINOR CONTOUR
 - FLOW ARROW
 - PROPOSED 100-YR FLOODWAY
 - EXISTING 100-YR FLOODPLAIN
 - EXISTING WETLANDS

- BMP LEGEND:**
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 - SSA STABILIZED STAGING AREA
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 - SR SURFACE ROUGHENING
 - ECB EROSION CONTROL BLANKET
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 - RS ROCK SOCK

NOTES:

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- 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 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.

CAUTION GAS TRANSMISSION LINE CROSSING
 CONTACT: NUSTAR ENERGY
 CHAD RENSLow@NUSTARENERGY.COM
 PLEASE CONTACT 2 WEEKS PRIOR TO ANY CONSTRUCTION ACTIVITY



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 Utility Notification Center of Colorado

FLORIDA LICENSED PROFESSIONAL ENGINEER
 37081

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

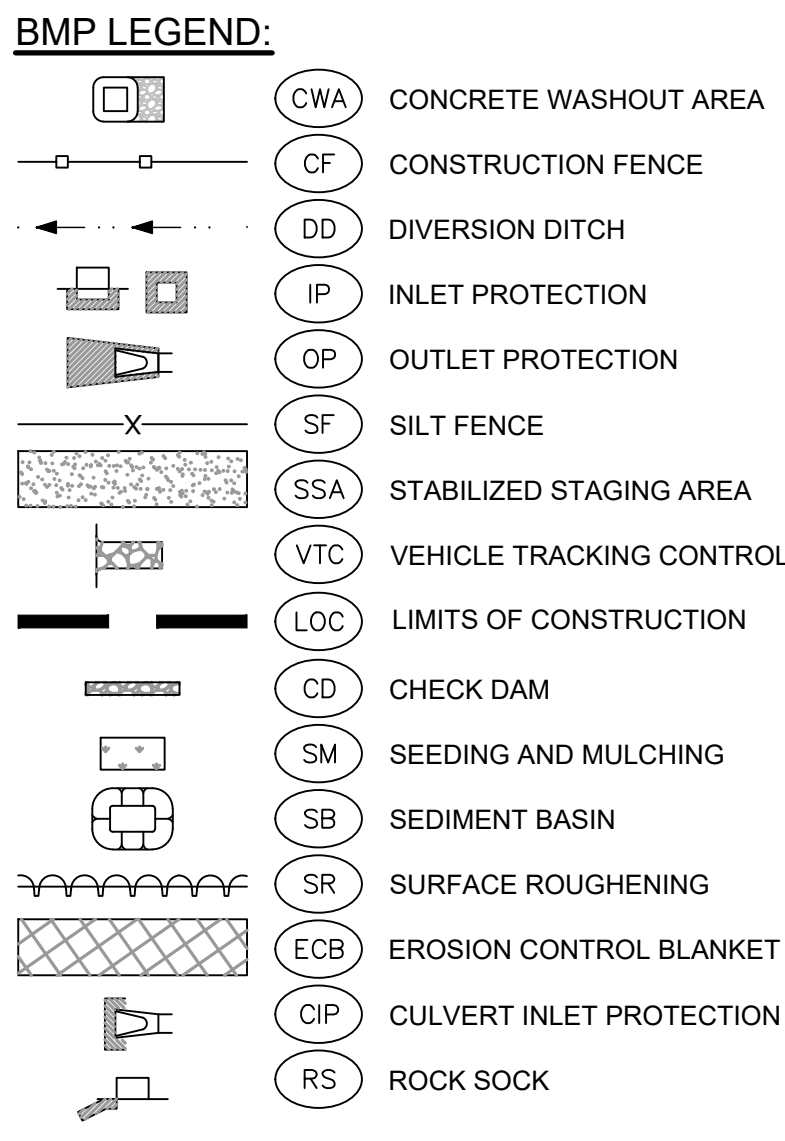
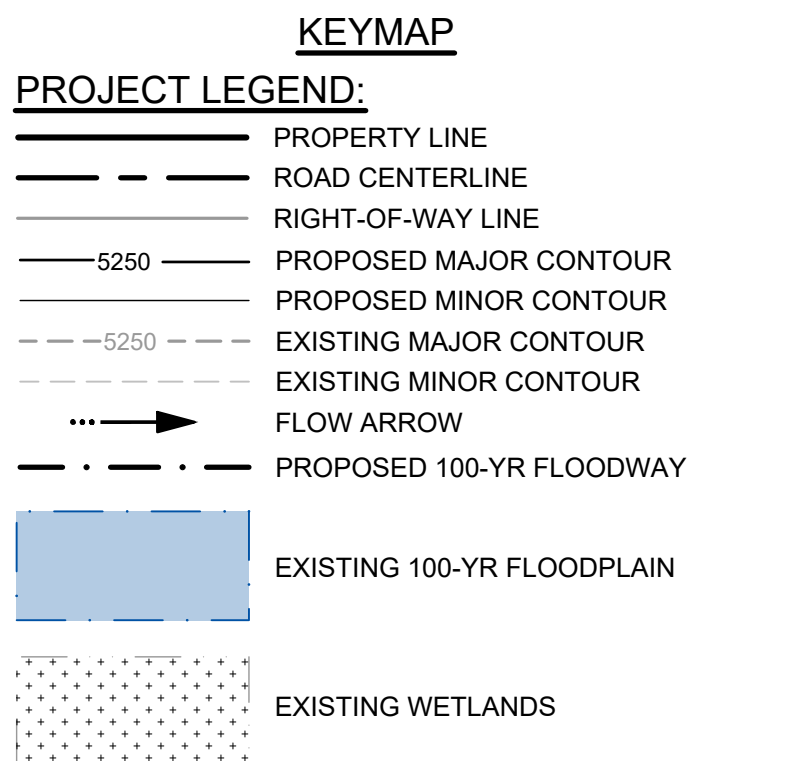
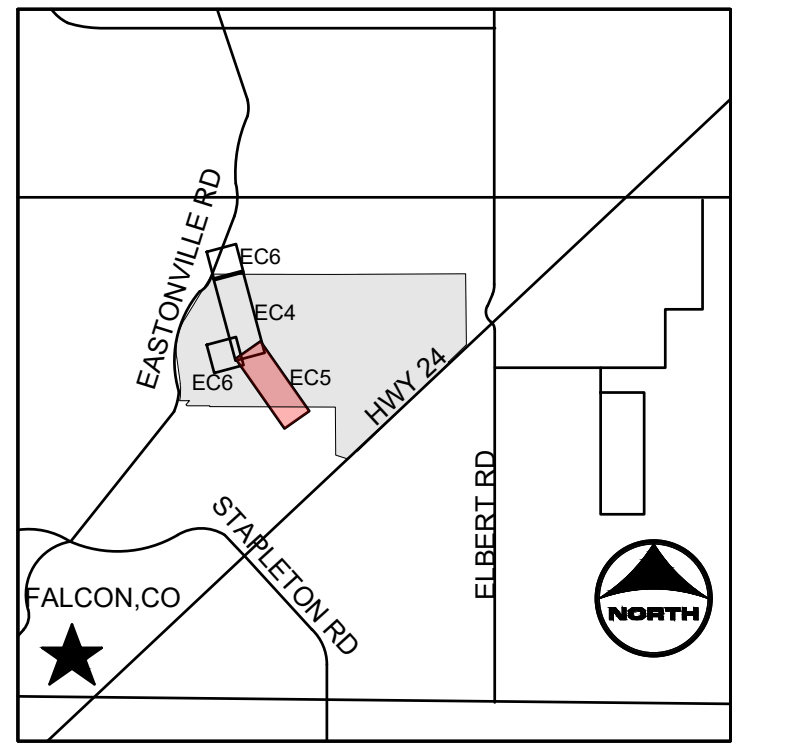
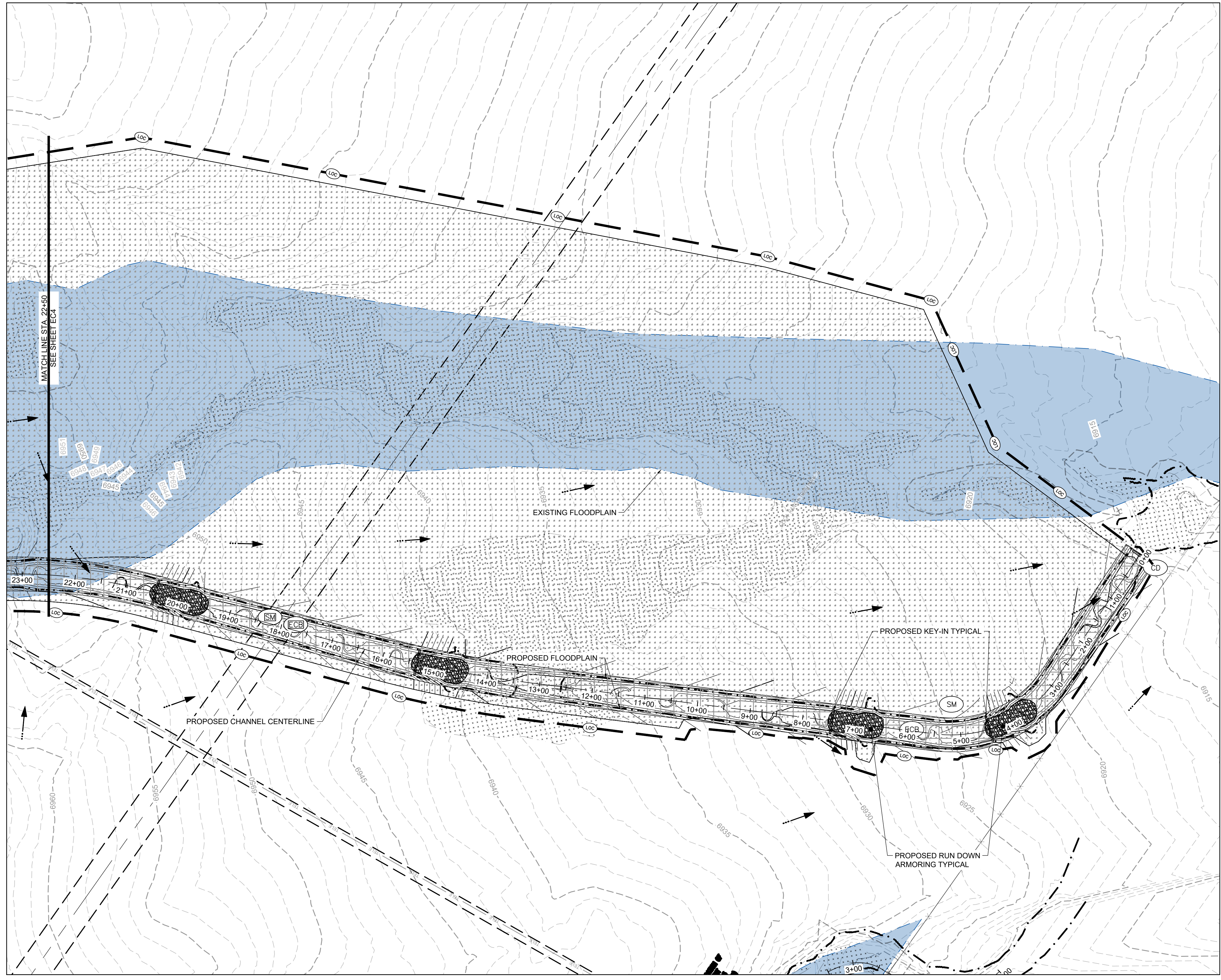
HRGreen
 HR GREEN - DENVER
 5619 DTC PARKWAY SUITE 1150
 DENVER CO 80111
 PHONE: 720.602.4999
 FAX: 844.273.1057

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

CONSTRUCTION DOCUMENTS
 FINAL EROSION CONTROL

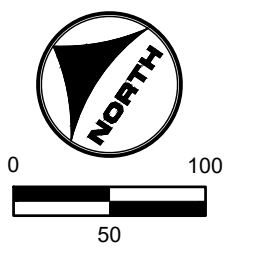
SHEET
EC4
 22

HR GREEN \xref: sgi-cad\01: FINAL EROSION CONTROL KEY: 01-XC-FINAL-EC-01_LXC_RIPRAP-HRG1.20X_EBases: 01-XC-PR_100YR_FP_DELINEATION



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.
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NAV83
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Utility Notification Center of Colorado

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

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NO.	DATE	BY	REVISION DESCRIPTION

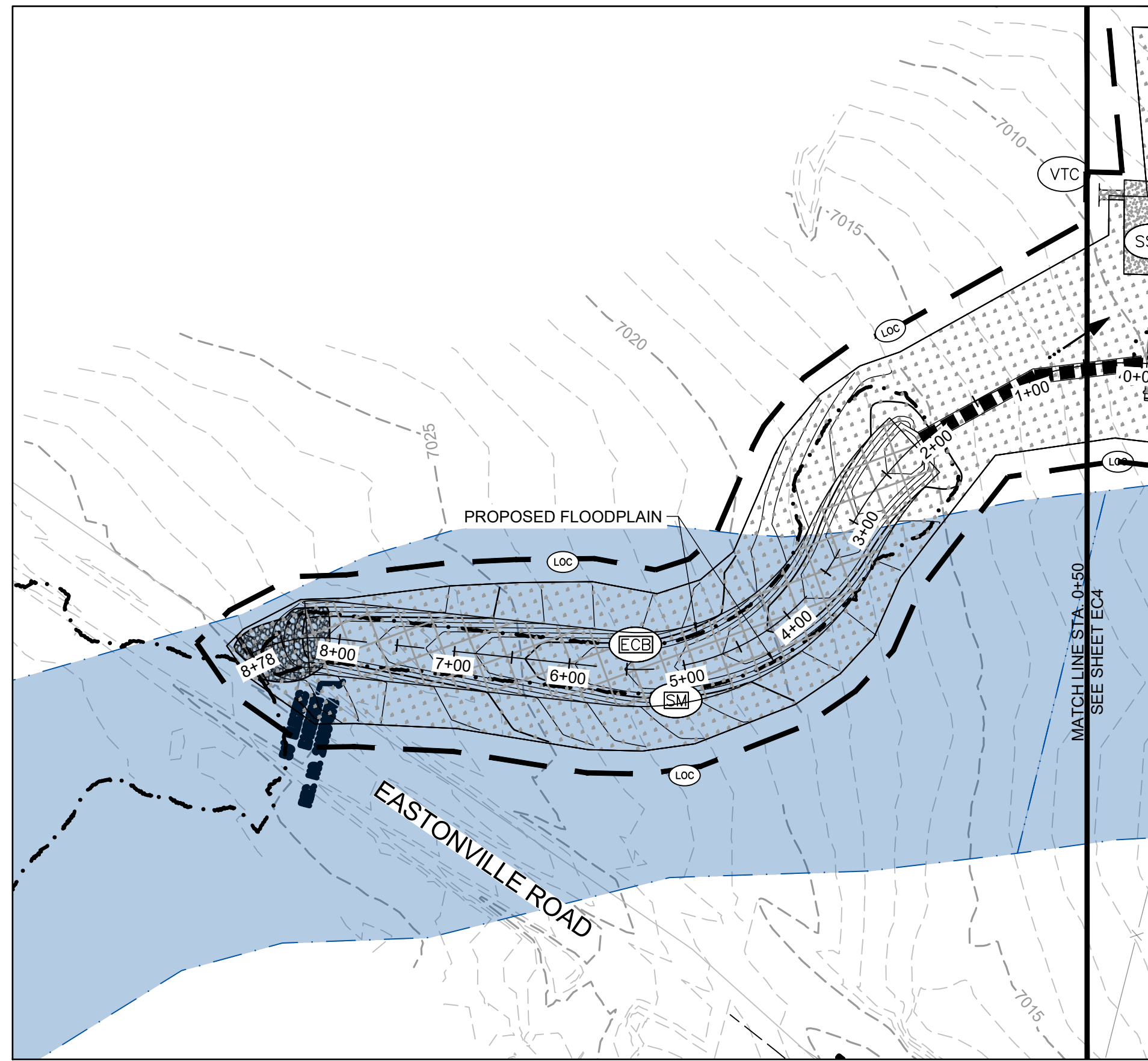
HRGreen
 HR GREEN - DENVER
 5619 DTC PARKWAY SUITE 1150
 DENVER CO 80111
 PHONE: 720.602.4999
 FAX: 844.273.1057

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

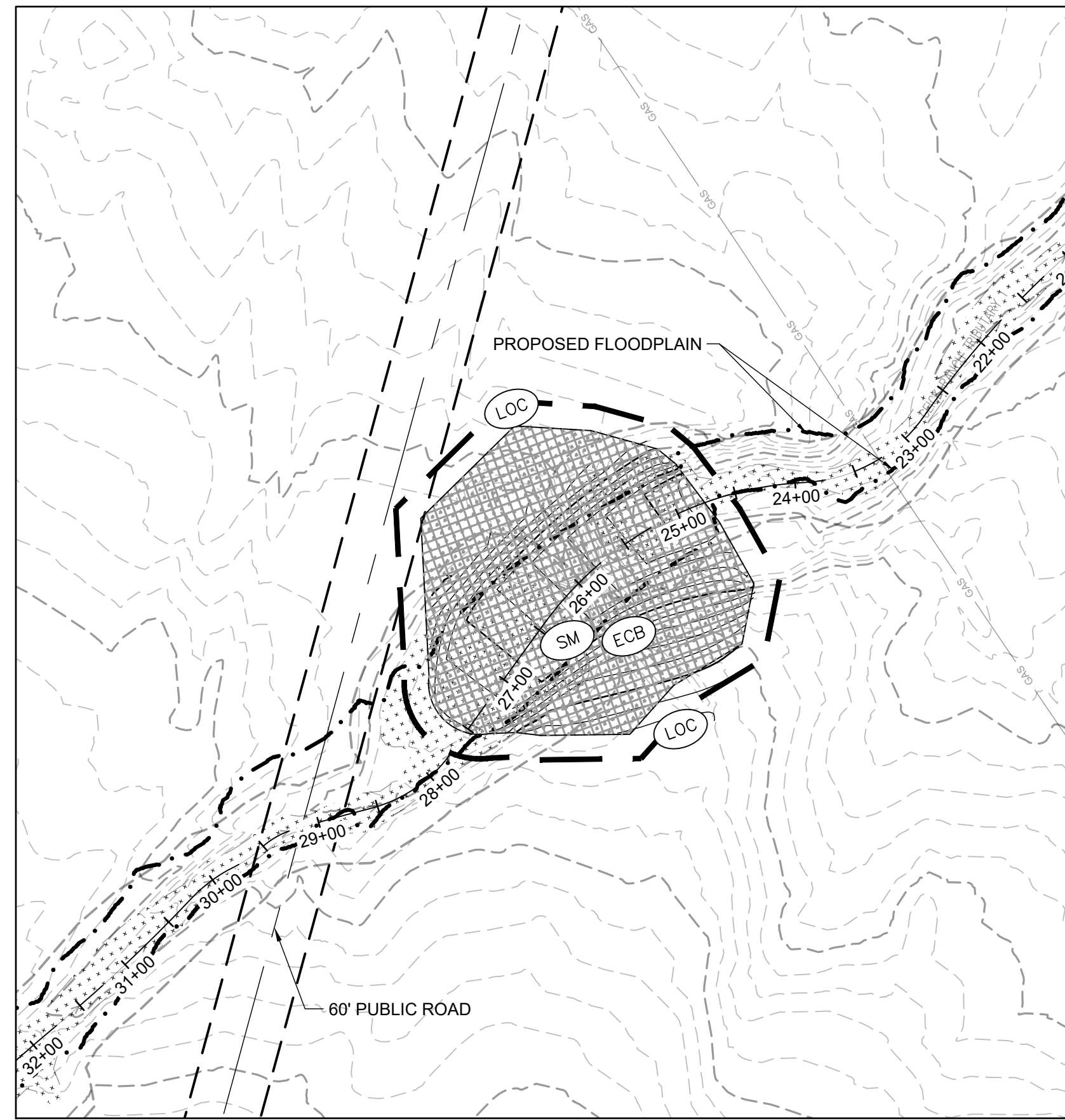
CONSTRUCTION DOCUMENTS
 FINAL EROSION CONTROL

SHEET
EC5
 23

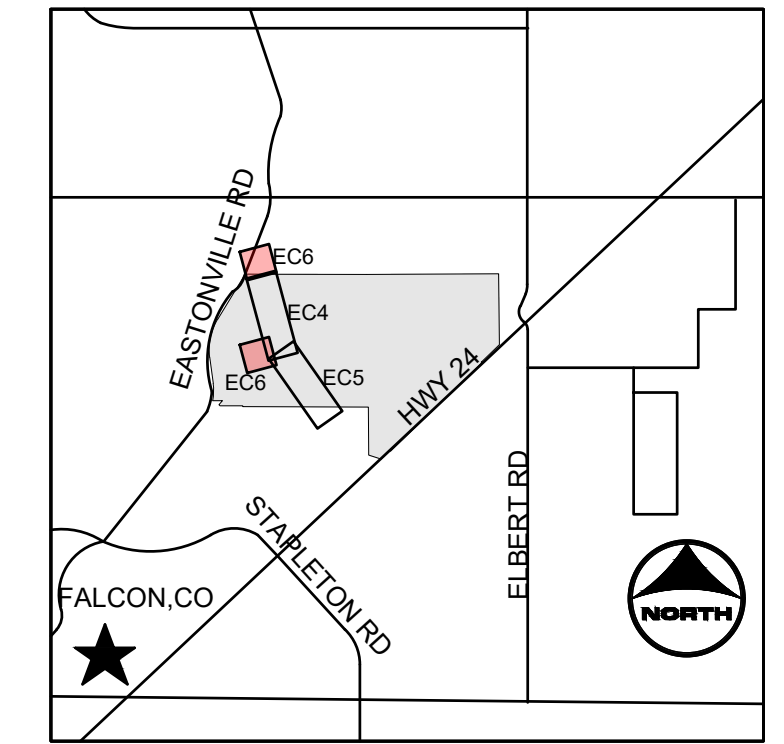
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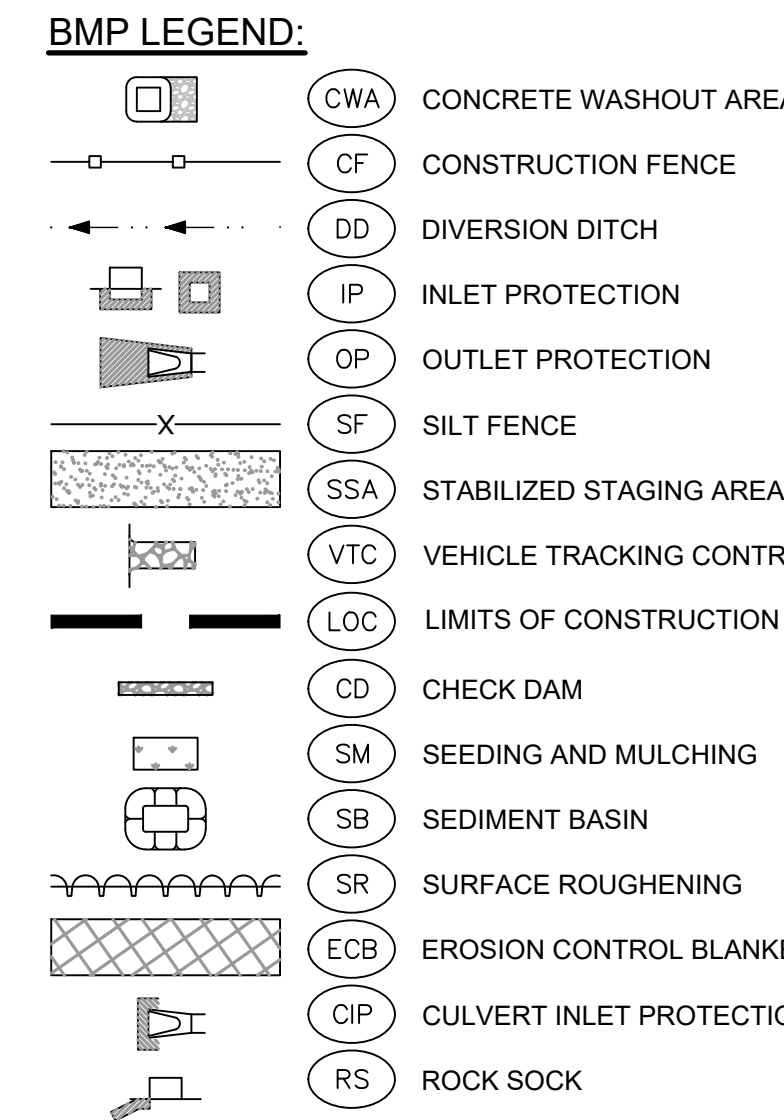
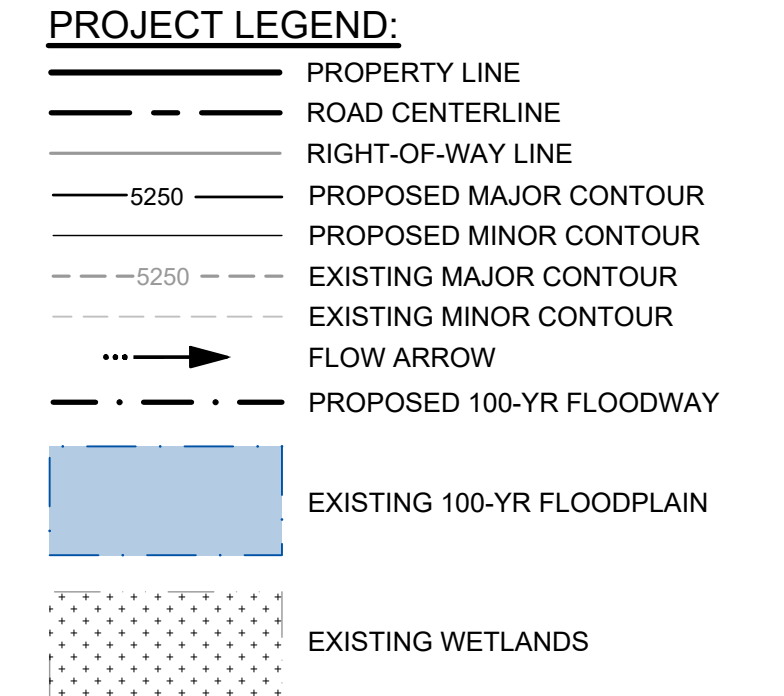
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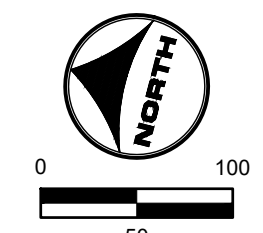
TRIBUTARY 1



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
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 - 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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 Utility Notification Center of Colorado

HR GREEN \xref: xref: sgi: -d: 01: FINAL EROSION CONTROL KEY: 01-XC-FINAL-EC-01-XC-RIFRAP-HRG1.20X-EBases: 01-XC-PR-100YR-FP-DELINERATION

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

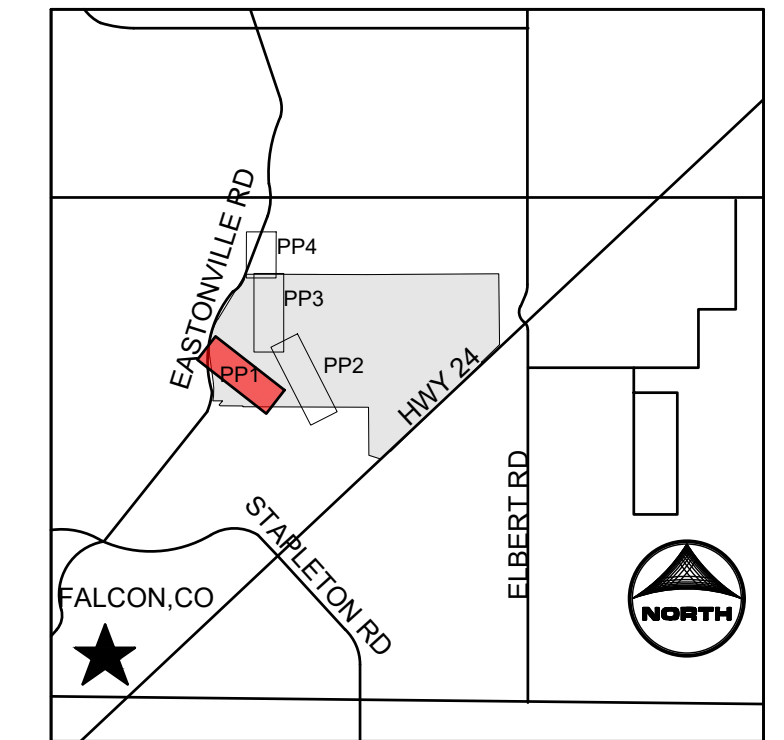
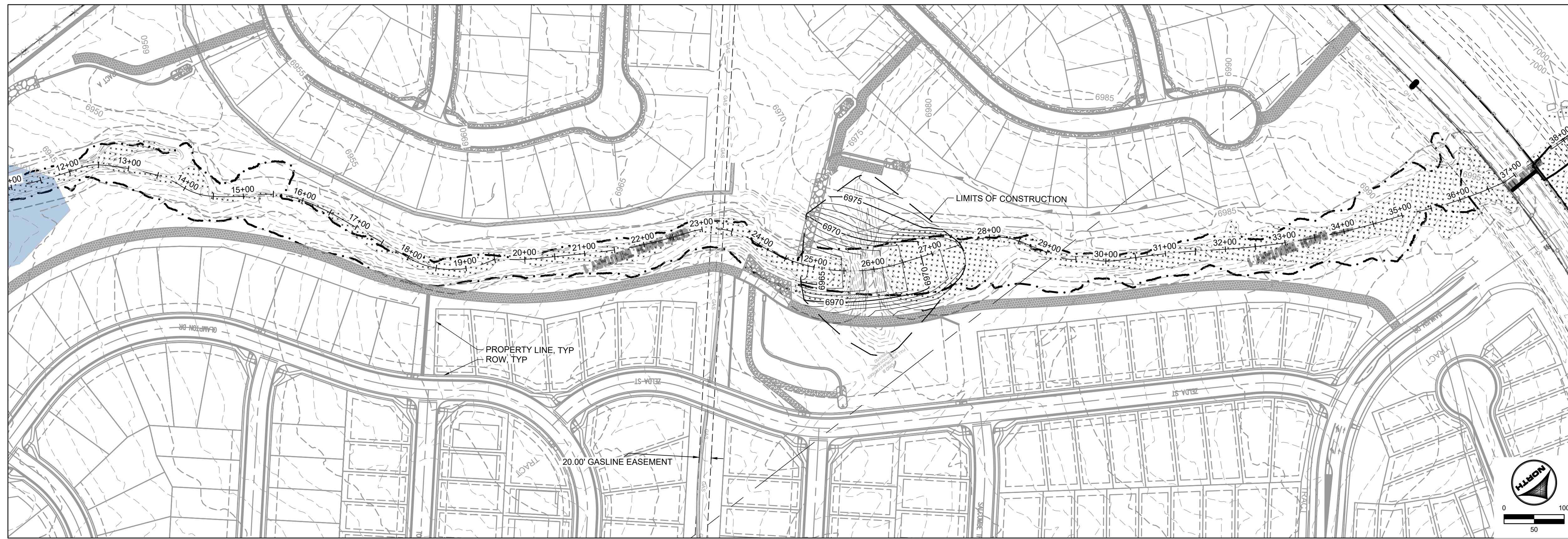
HRGreen
 HR GREEN - DENVER
 5619 DTC PARKWAY SUITE 1150
 DENVER CO 80111
 PHONE: 720.602.4999
 FAX: 844.273.1057

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

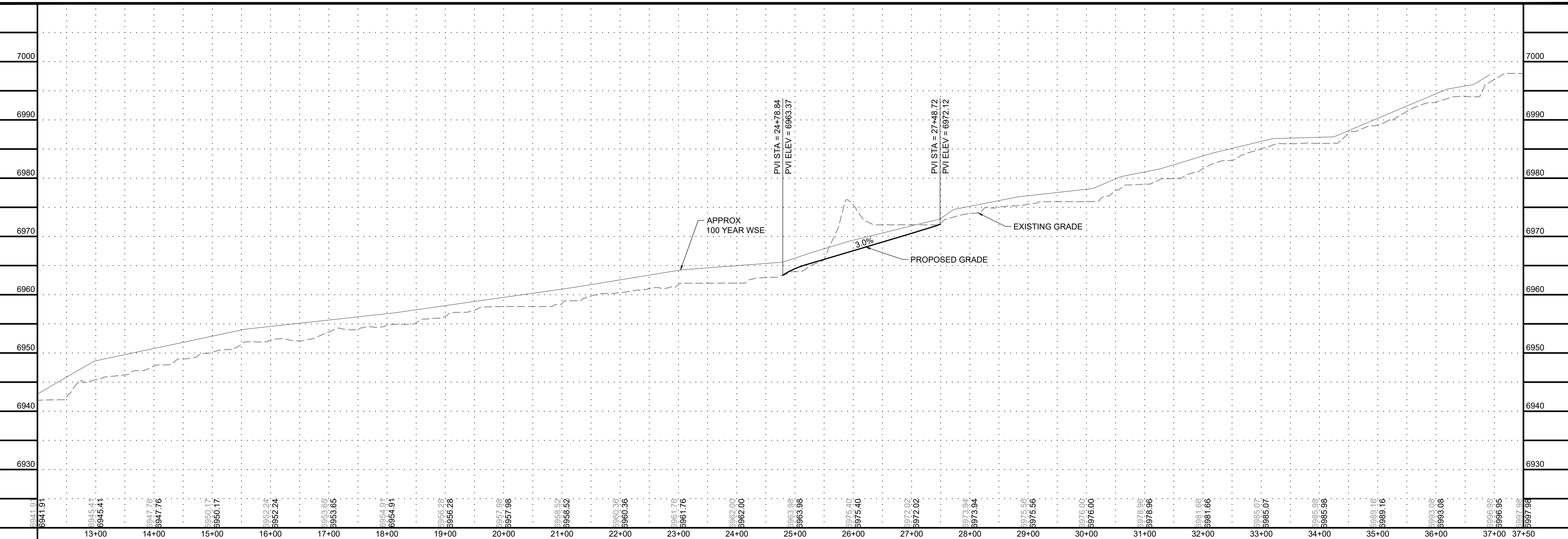
CONSTRUCTION DOCUMENTS
 FINAL EROSION CONTROL

SHEET
EC6
 24

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



- KEYMAP**
- PROJECT LEGEND:**
- PROPERTY LINE
 - ROAD CENTERLINE
 - RIGHT-OF-WAY LINE
 - 5250 PROPOSED MAJOR CONTOUR
 - 5250 PROPOSED MINOR CONTOUR
 - 5250 EXISTING MAJOR CONTOUR
 - 5250 EXISTING MINOR CONTOUR
 - FLOW ARROW
 - 6981.76 BASE FLOOD ELEVATION
 - LIMITS OF CONSTRUCTION
 - PROPOSED 100-YR FLOODPLAIN
 - EFFECTIVE 100-YR FLOODPLAIN
 - EXISTING WETLANDS
 - PROPOSED MAINTENANCE TRAIL



- NOTES:**
1. 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
 2. ALIGNMENT NOT FOR USE IN CONSTRUCTION. REFER TO NORTHINGS AND EASTINGS
 3. 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.
 4. 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

811 UNCC CALL BEFORE YOU DIG
811 OR 1-800-922-1987
Utility Notification Center of Colorado

PROFESSIONAL ENGINEER
37081
GREGORY L. PARKS
7-25-22

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\CI\PLAN AND PROFILE	

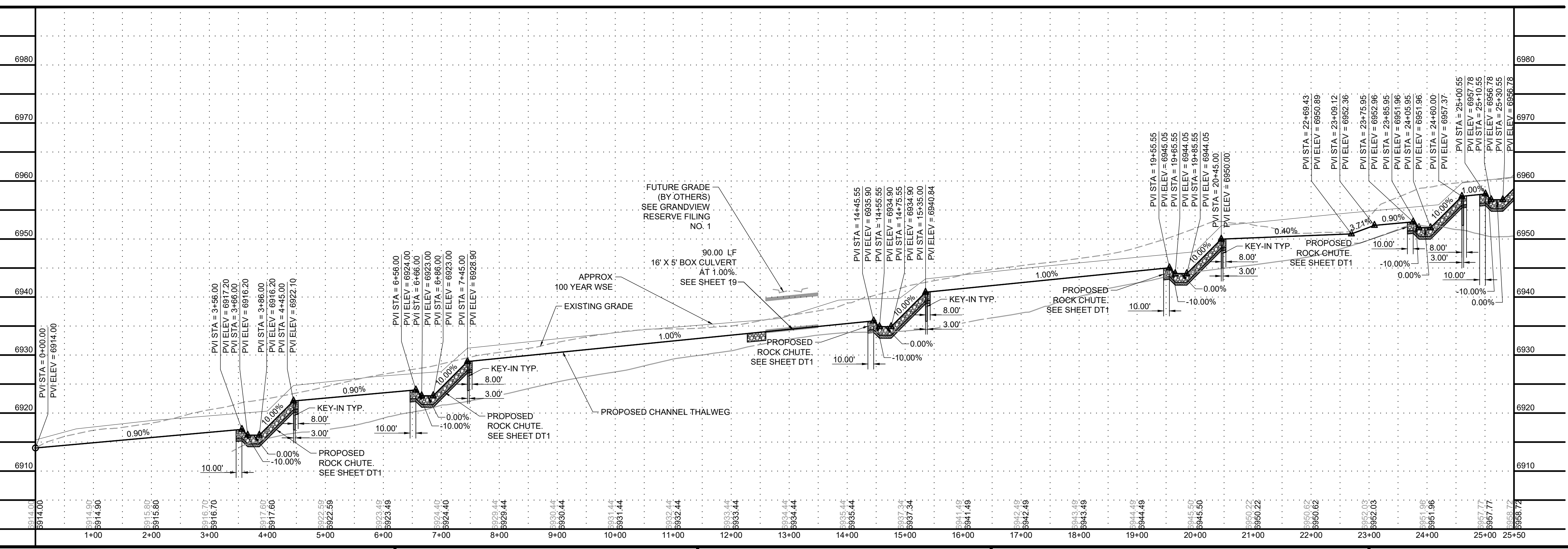
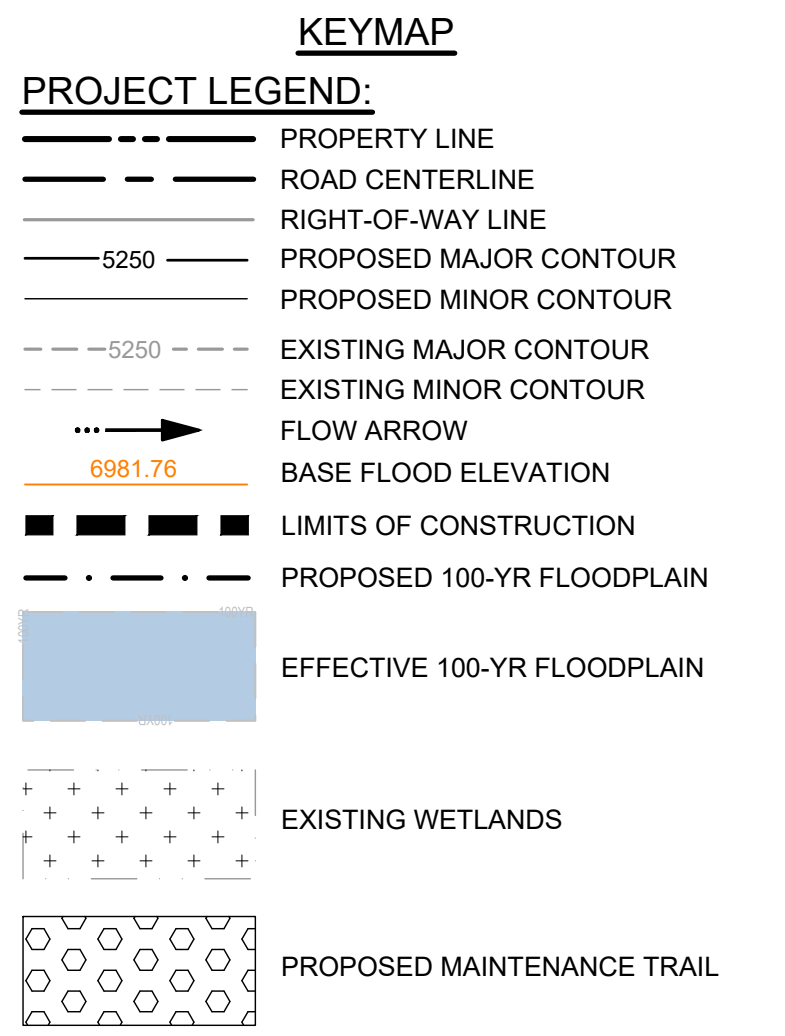
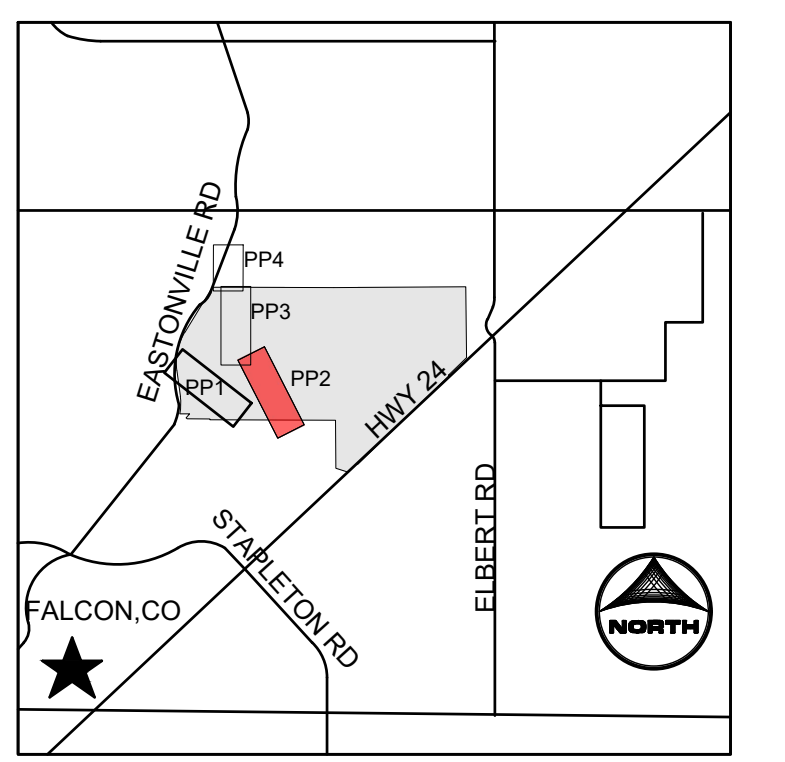
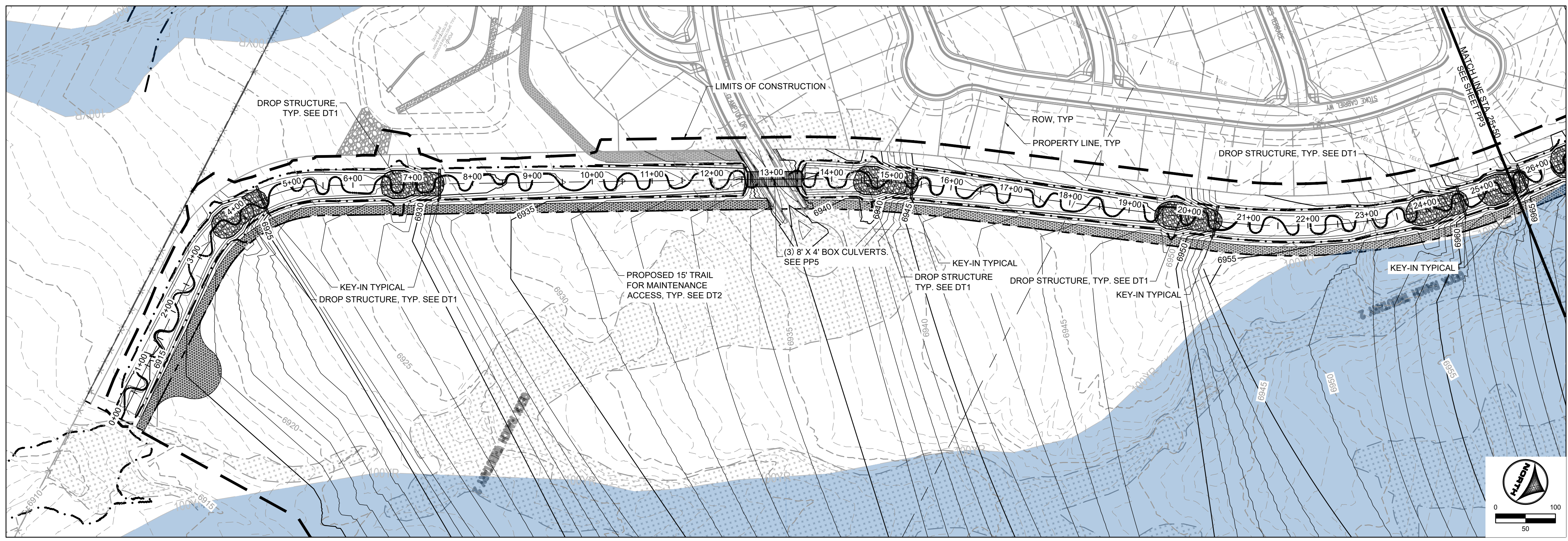
NO.	DATE	BY	REVISION DESCRIPTION

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 1 PLAN AND PROFILE

SHEET
PP1
25



- 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:**
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 CONTROL POINT COORDINATE SYSTEM: NAVD88
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 811 OR 1-800-922-1987
 Utility Notification Center of Colorado

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.
 IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.

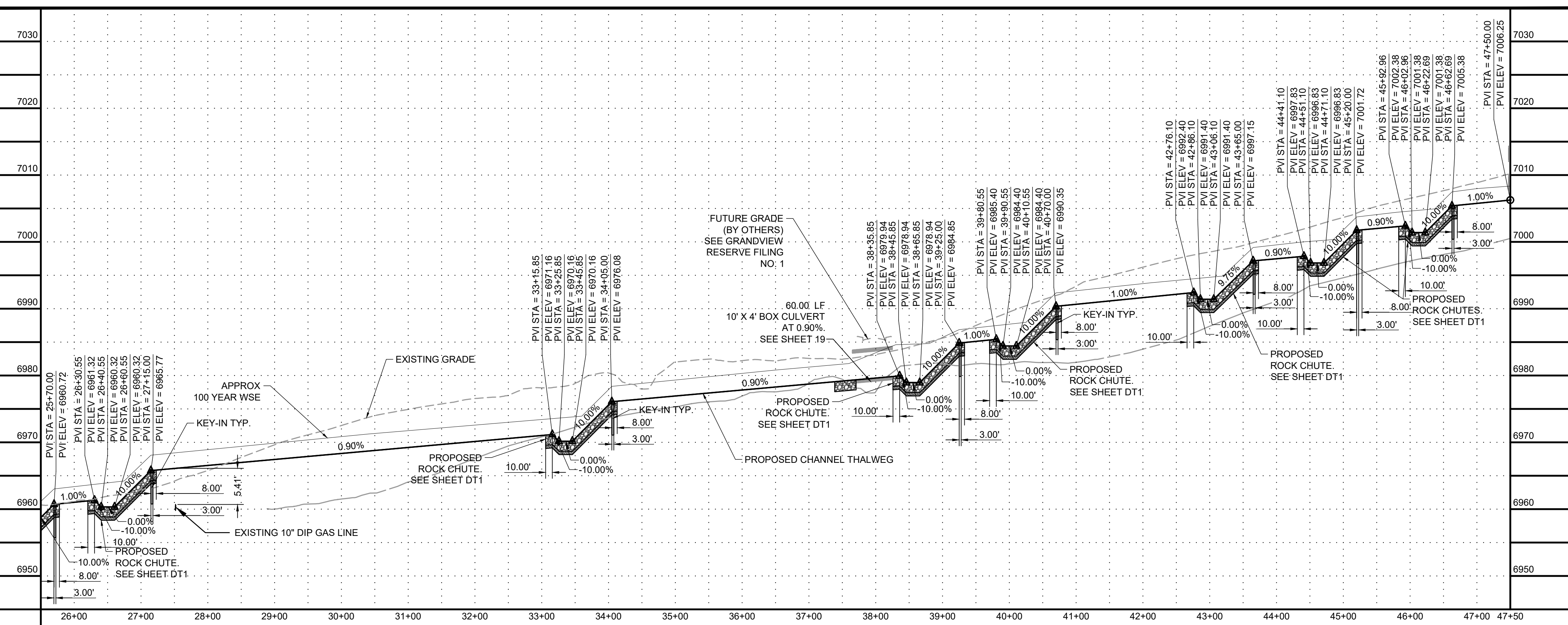
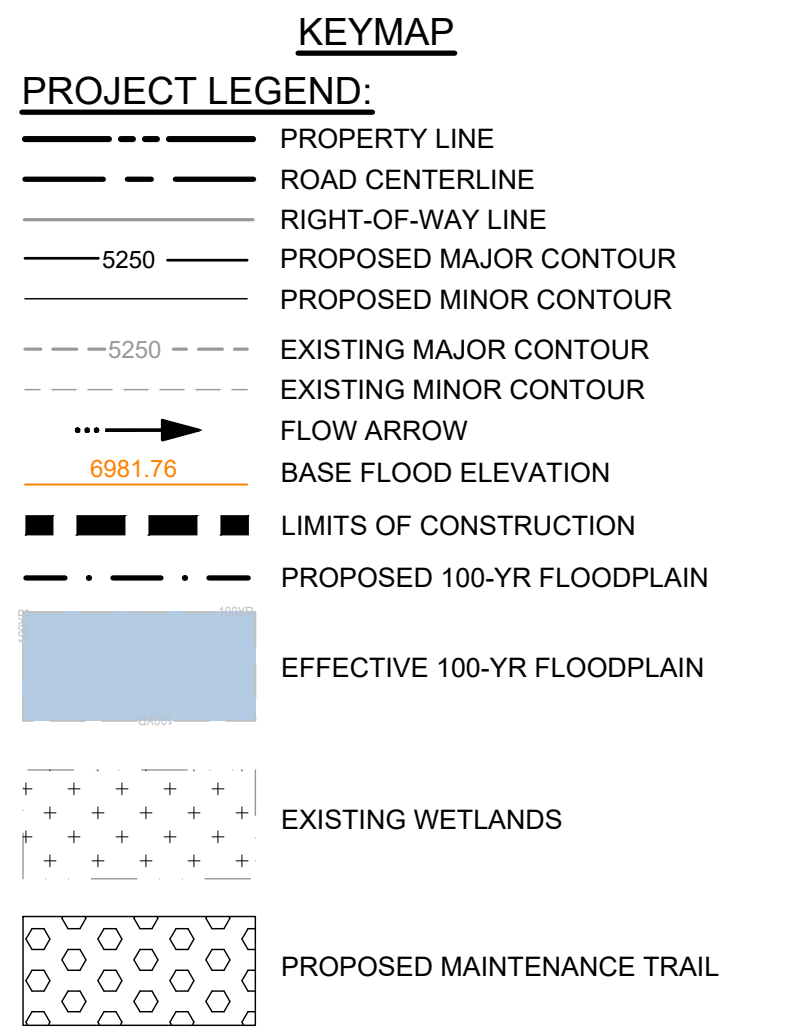
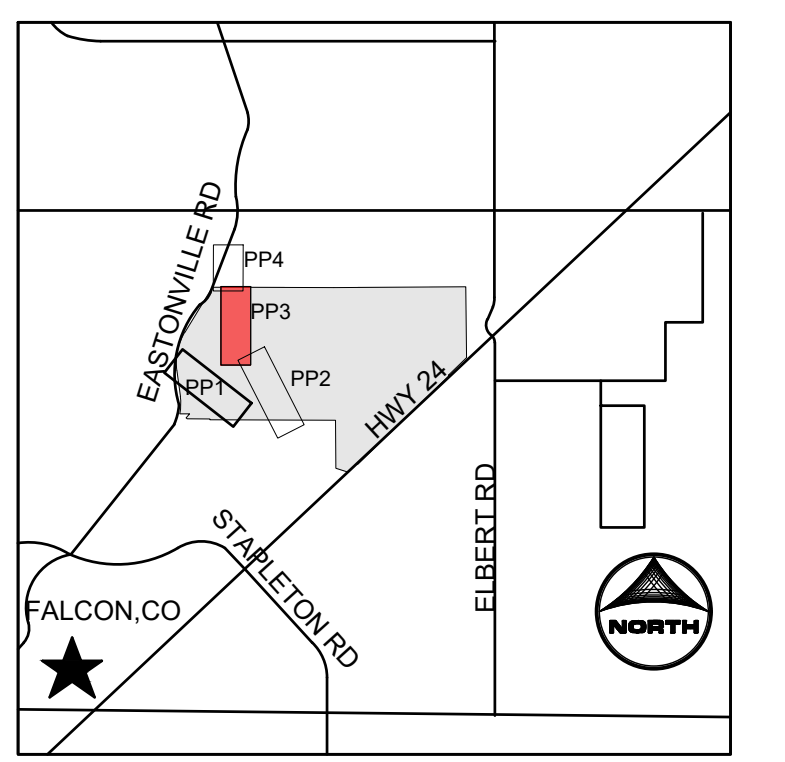
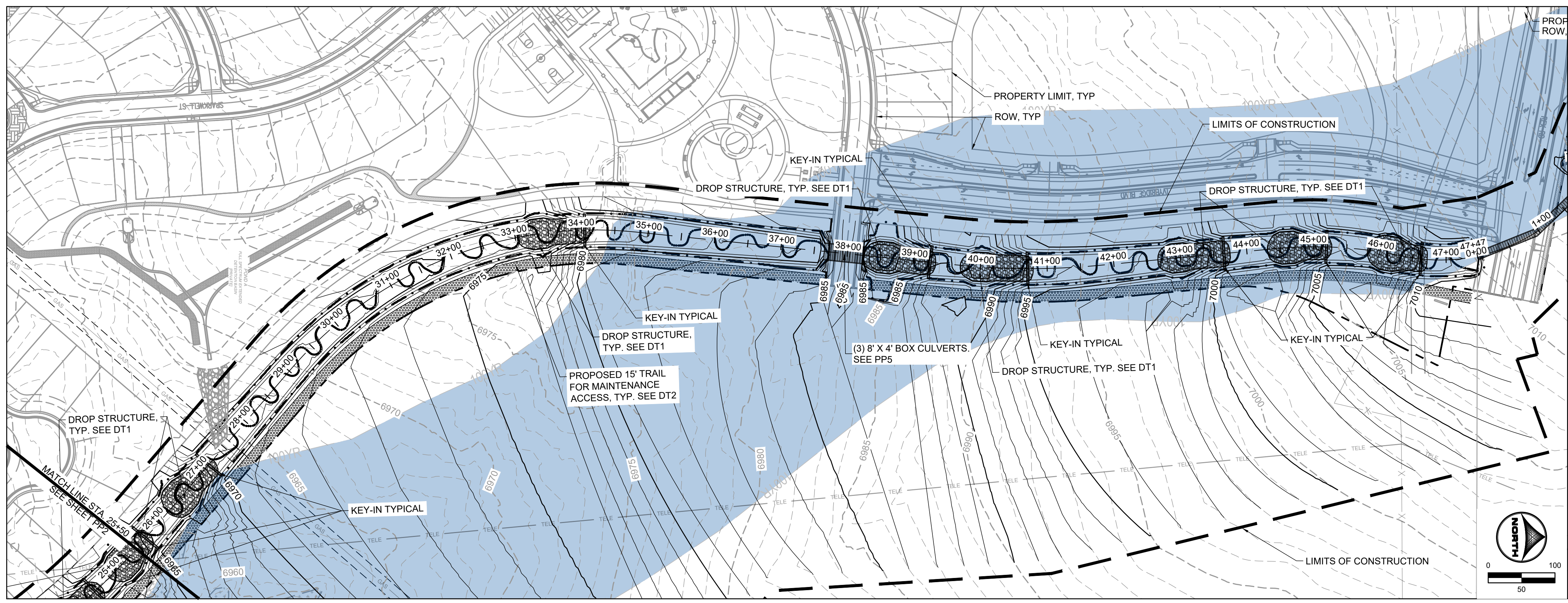
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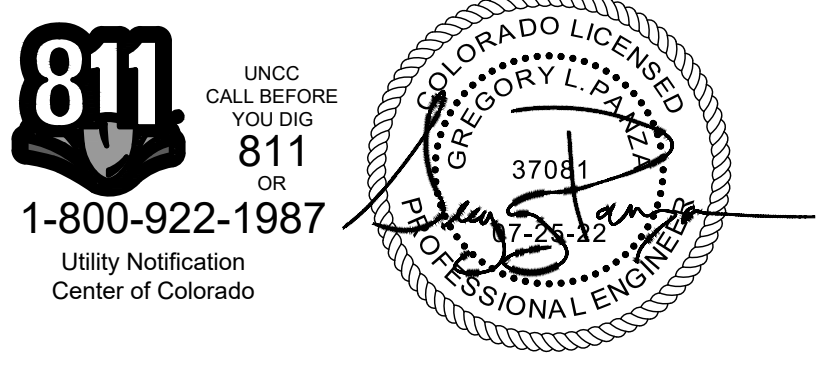
GRANDVIEW RESERVE (DRAINAGE A & B)
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CONSTRUCTION DOCUMENTS
 DRAINAGE TRIBUTARY 2 PLAN AND PROFILE

SHEET
 PP2
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- 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:
 - SOUTH WEST:**
 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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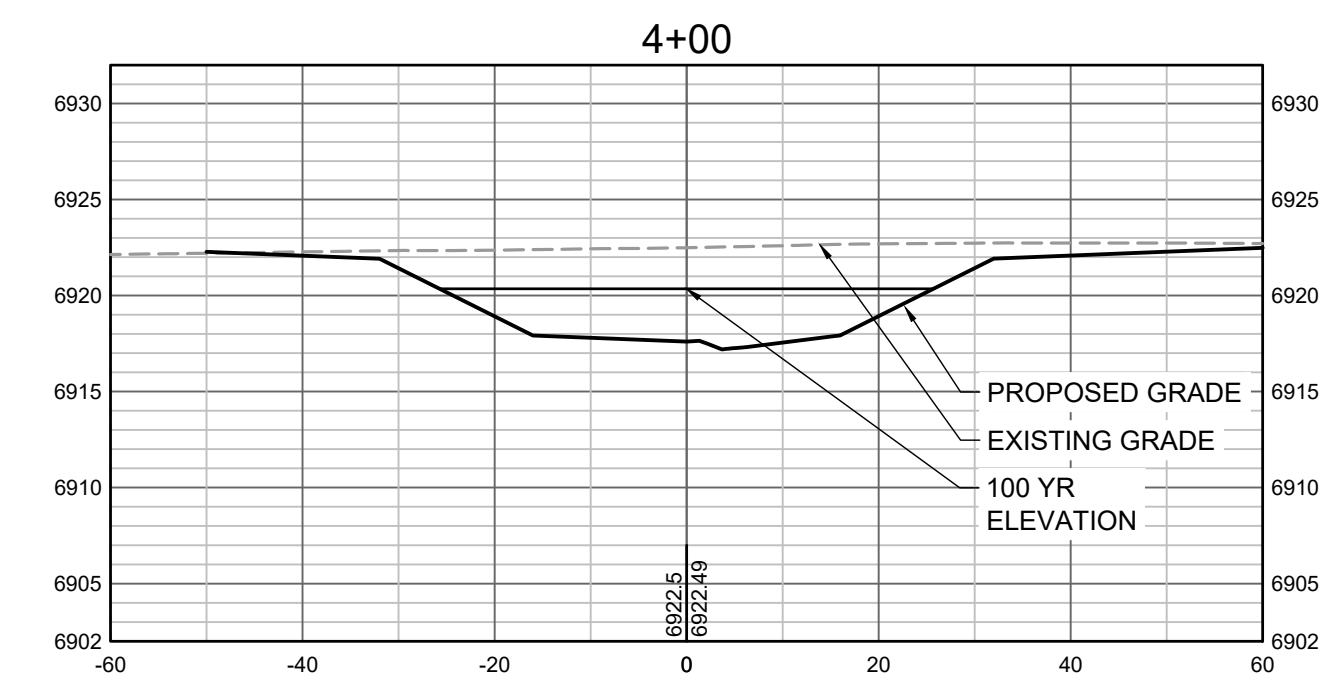
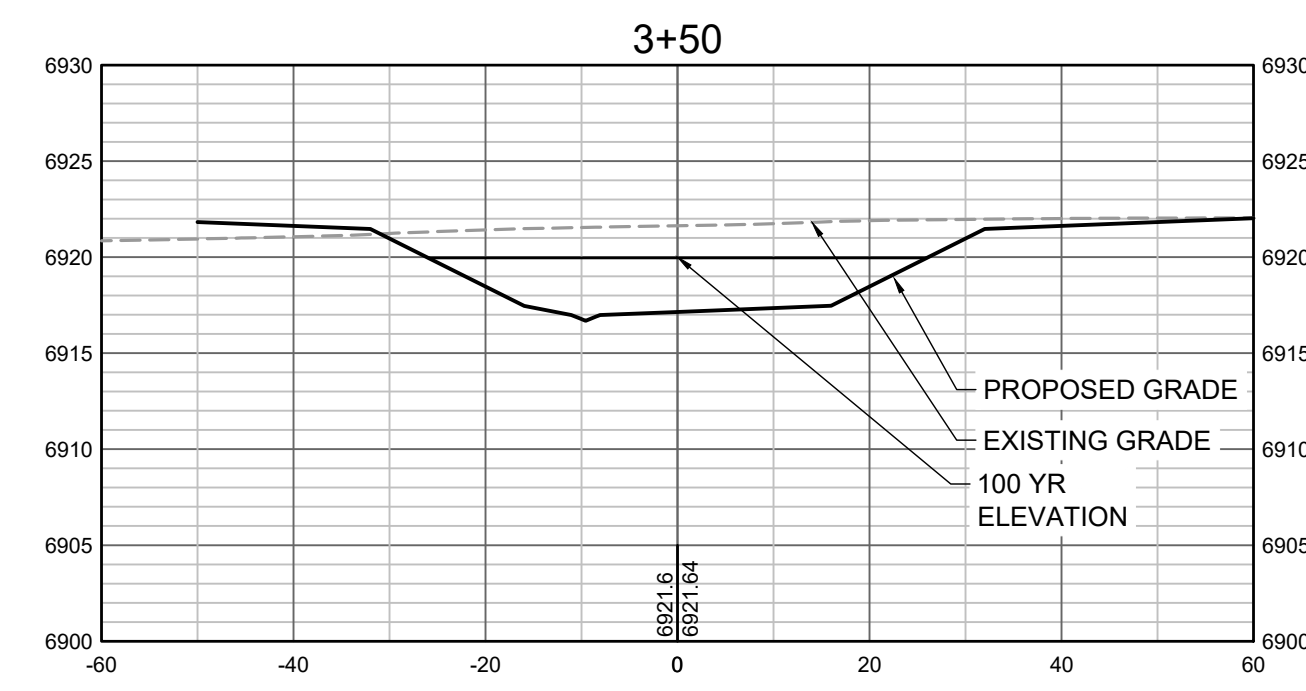
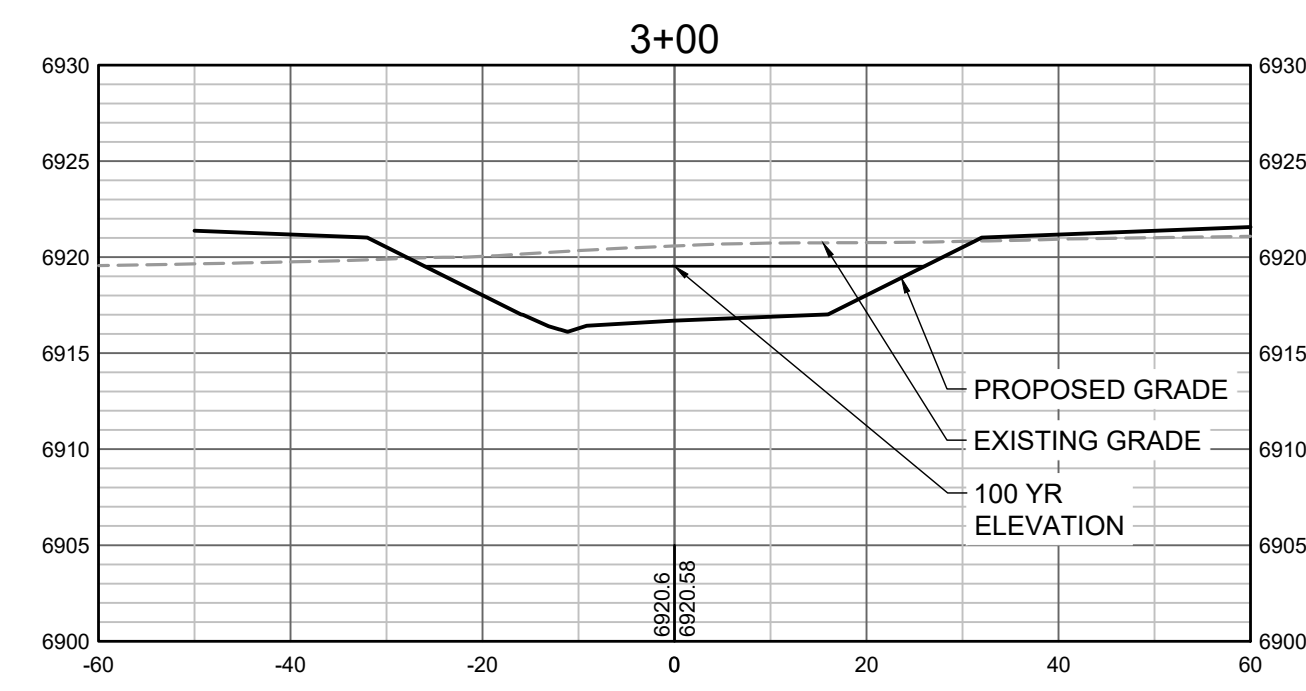
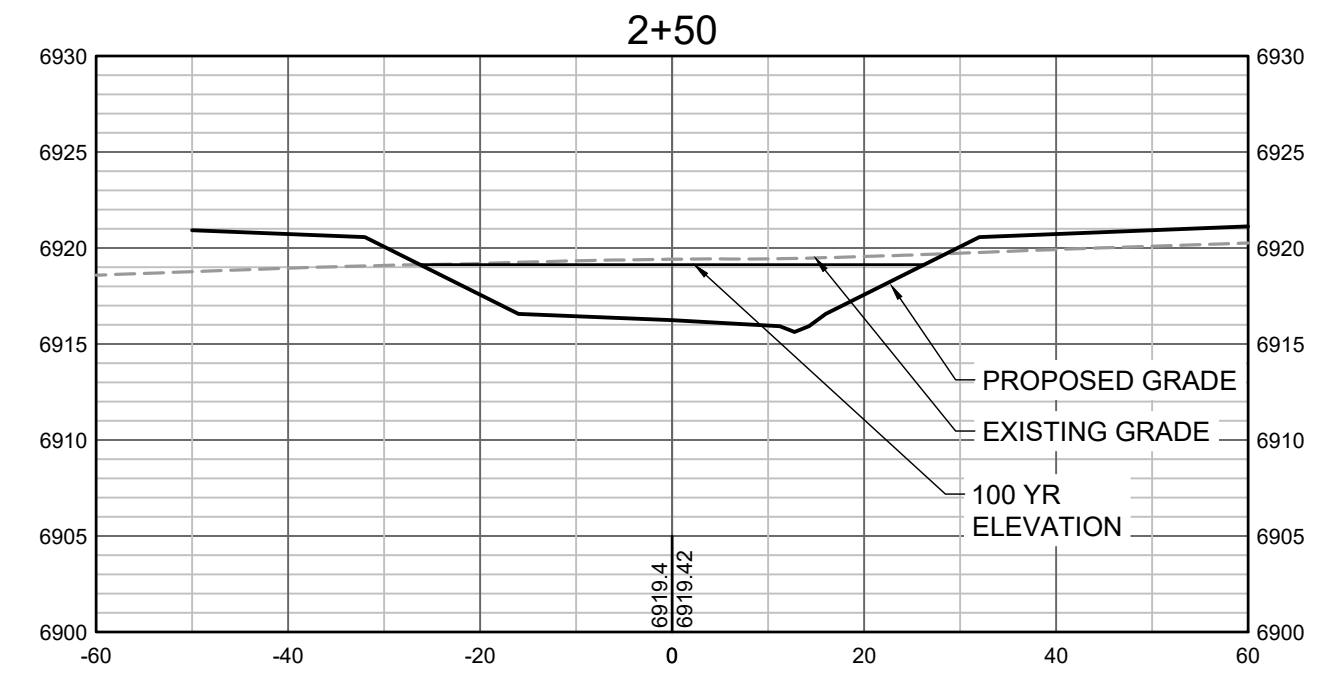
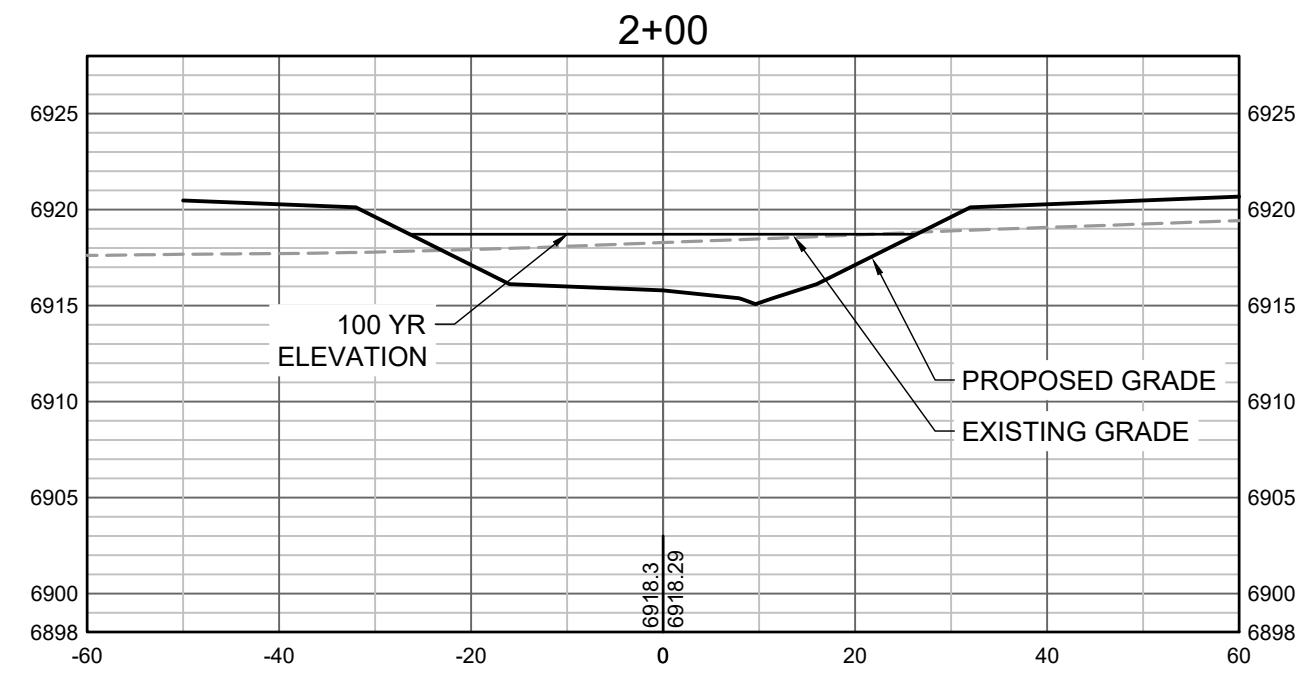
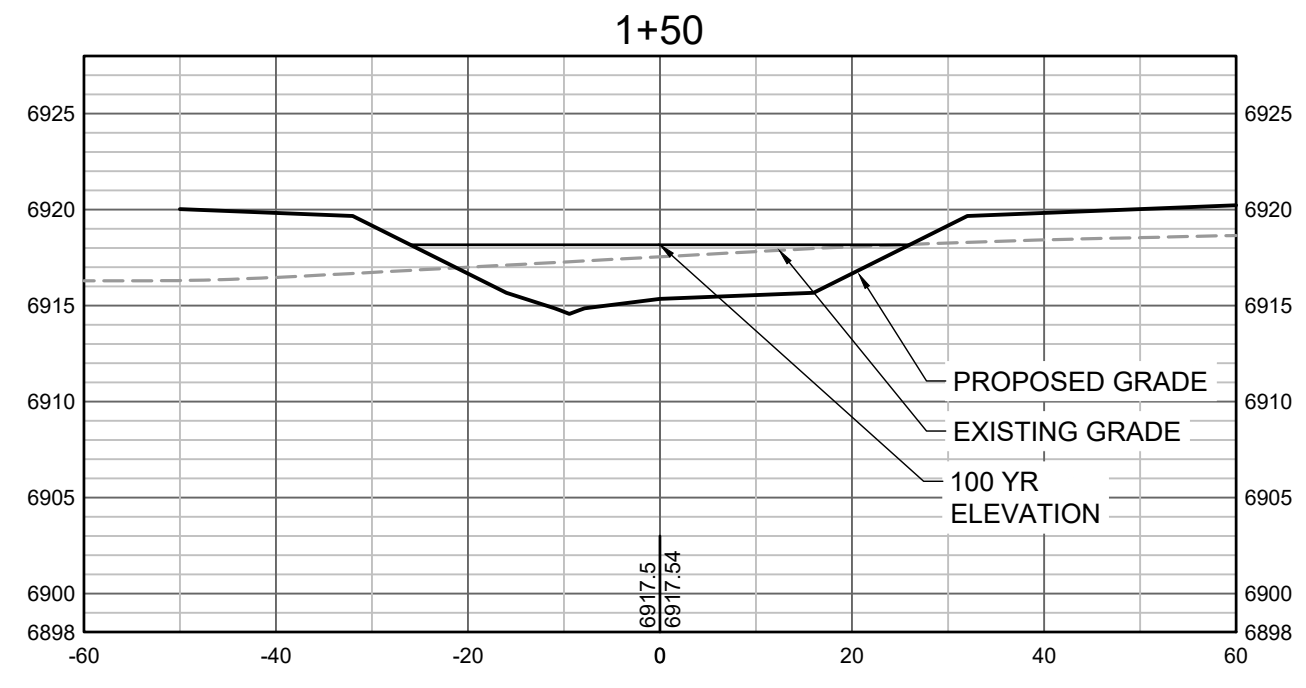
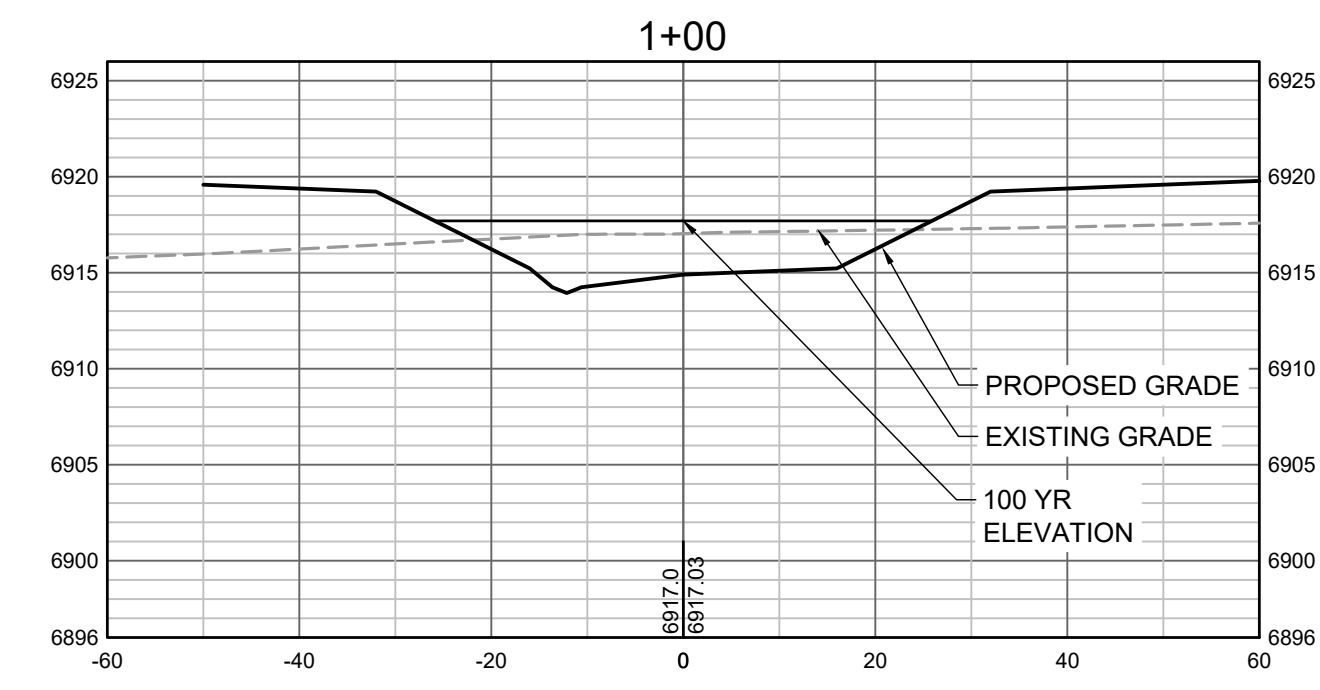
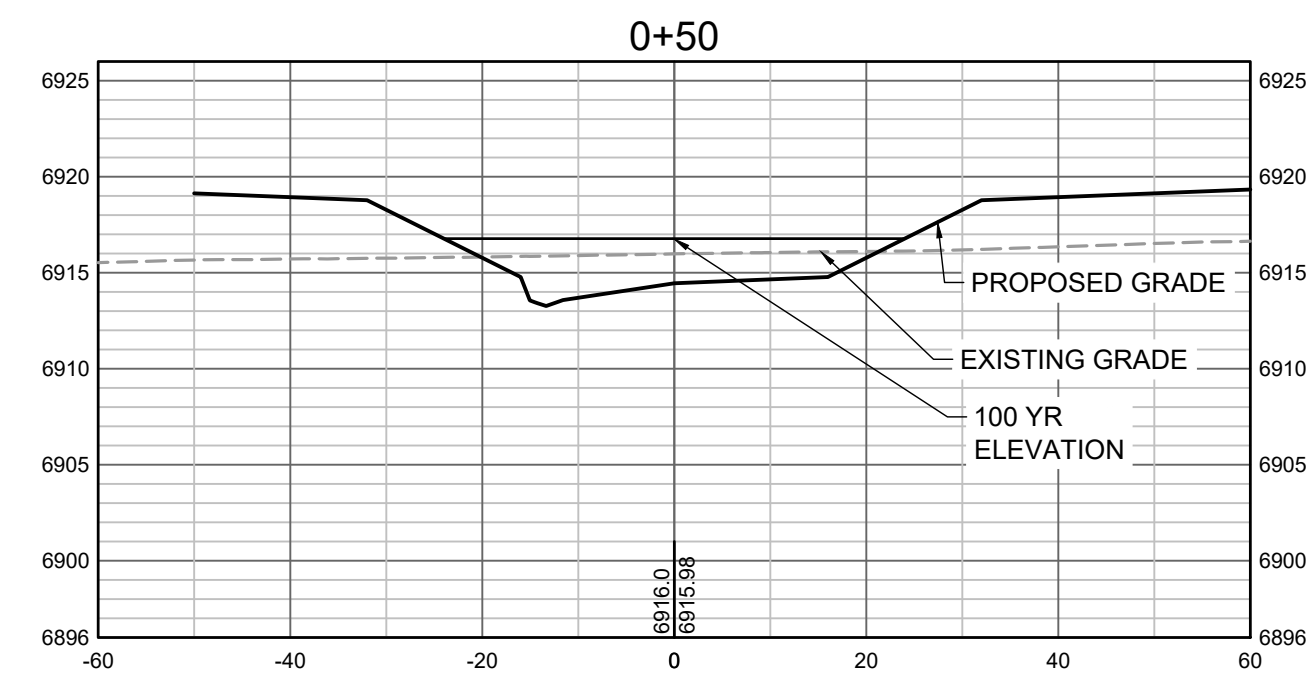
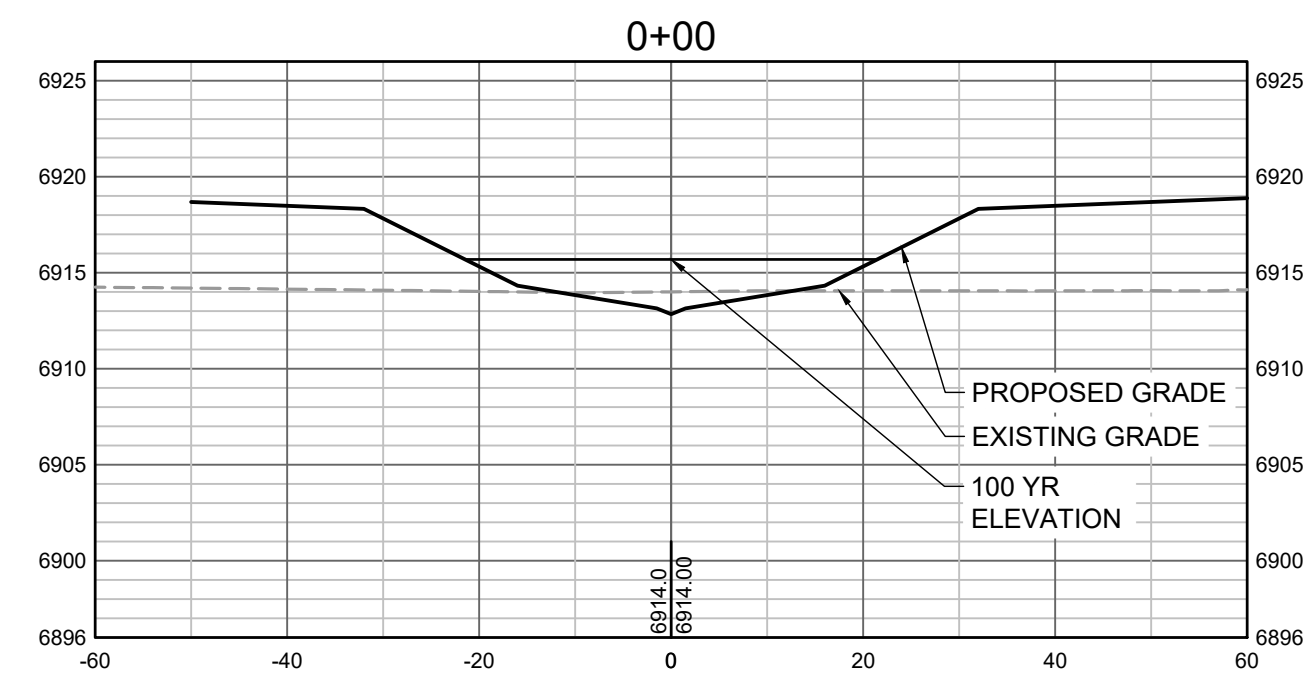
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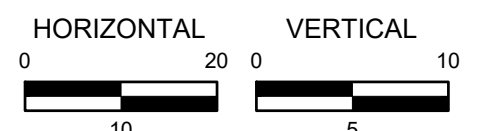
GRANDVIEW RESERVE (DRAINAGE A & B)
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CONSTRUCTION DOCUMENTS
 DRAINAGE TRIBUTARY 2 PLAN AND PROFILE

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: xgs1-dh01

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NO.	DATE	BY	REVISION DESCRIPTION

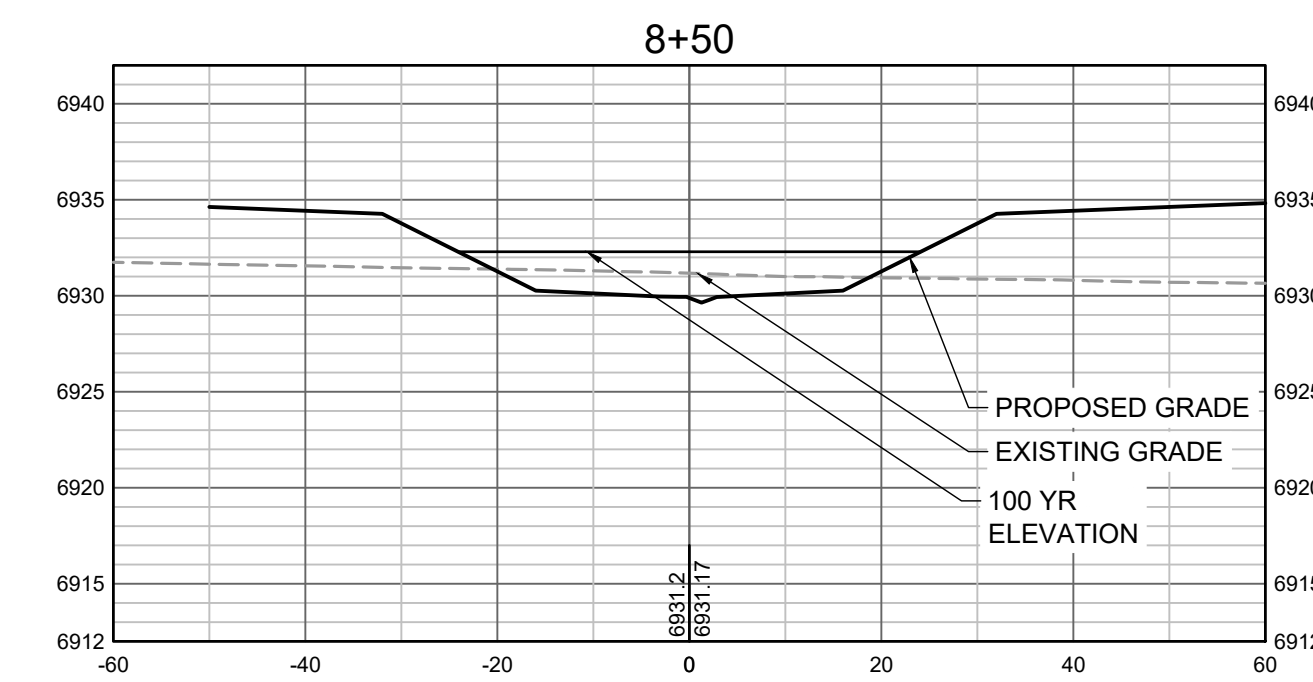
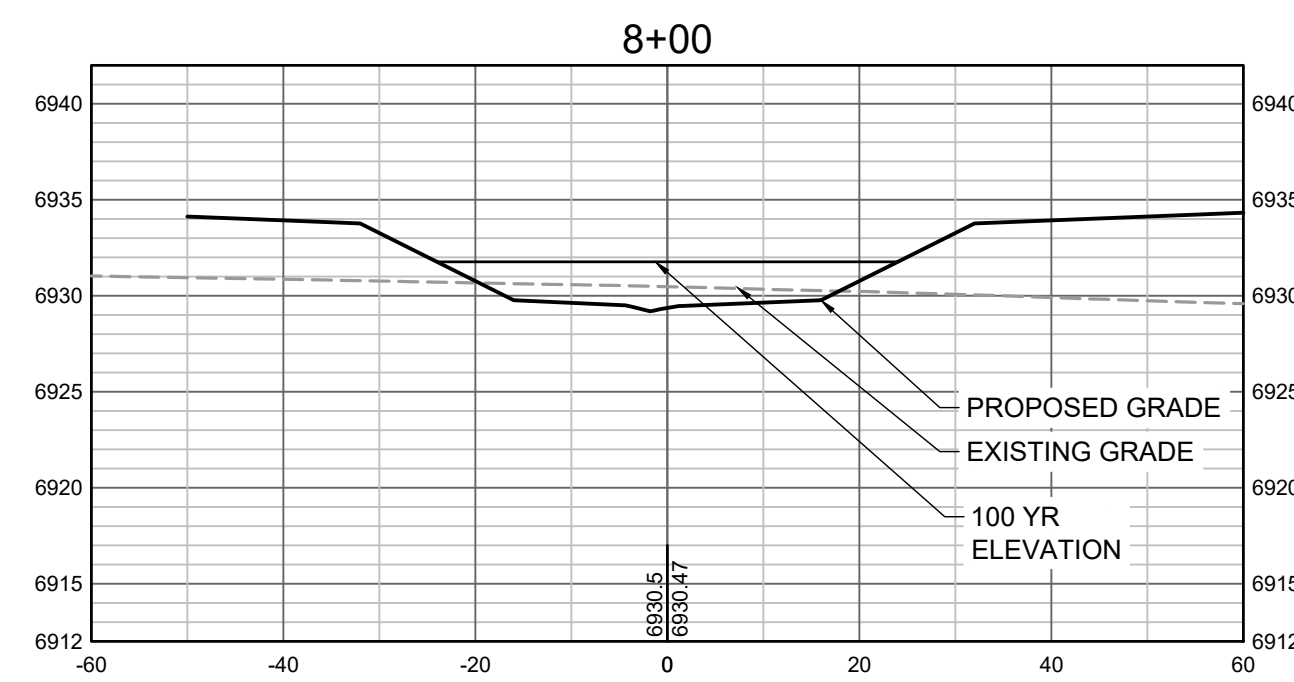
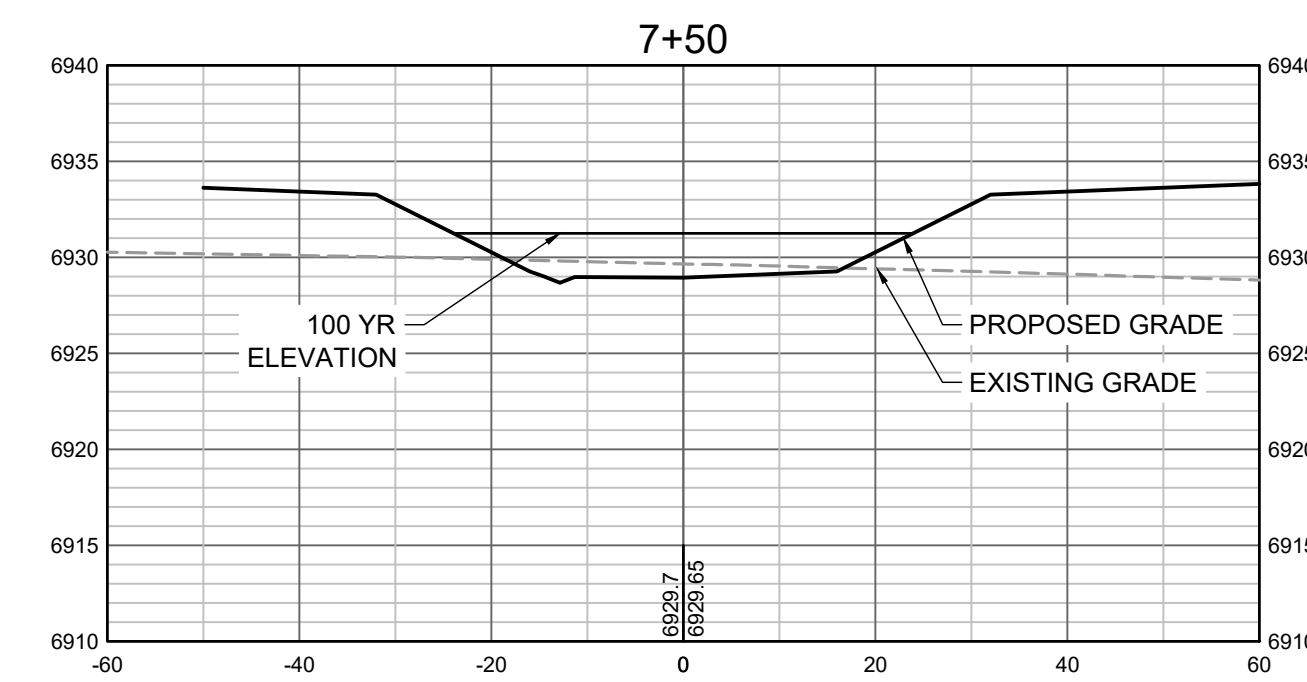
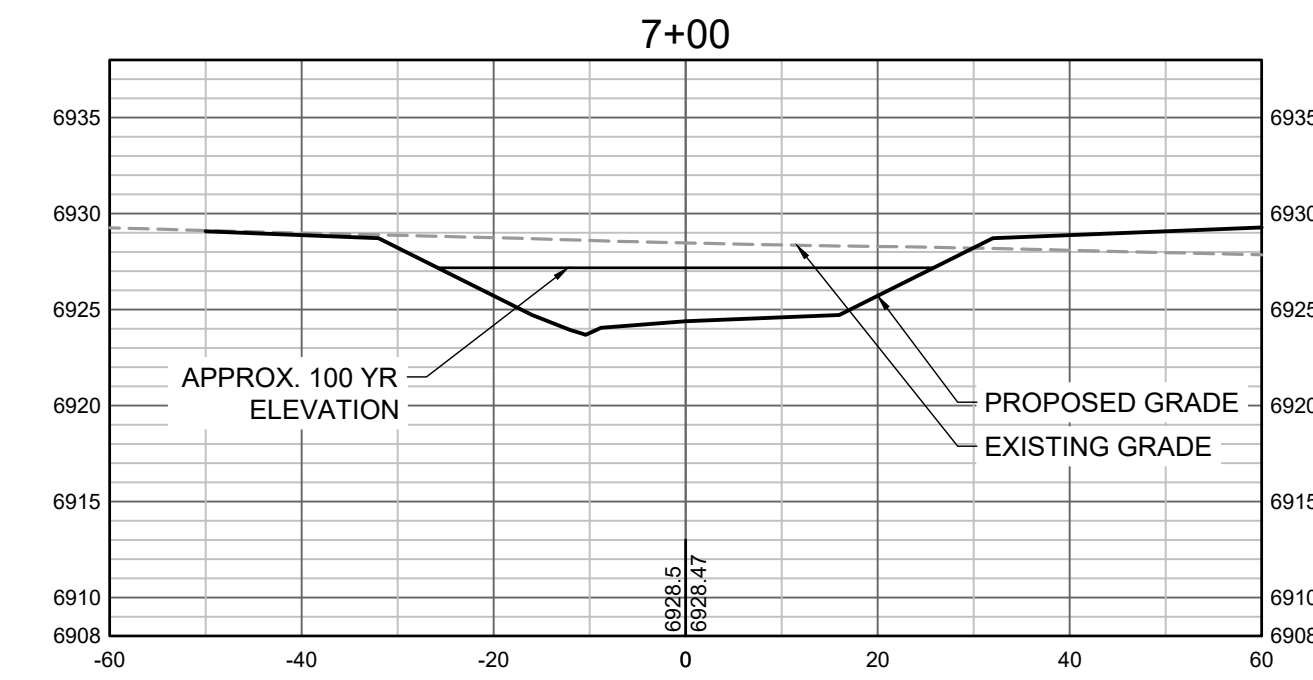
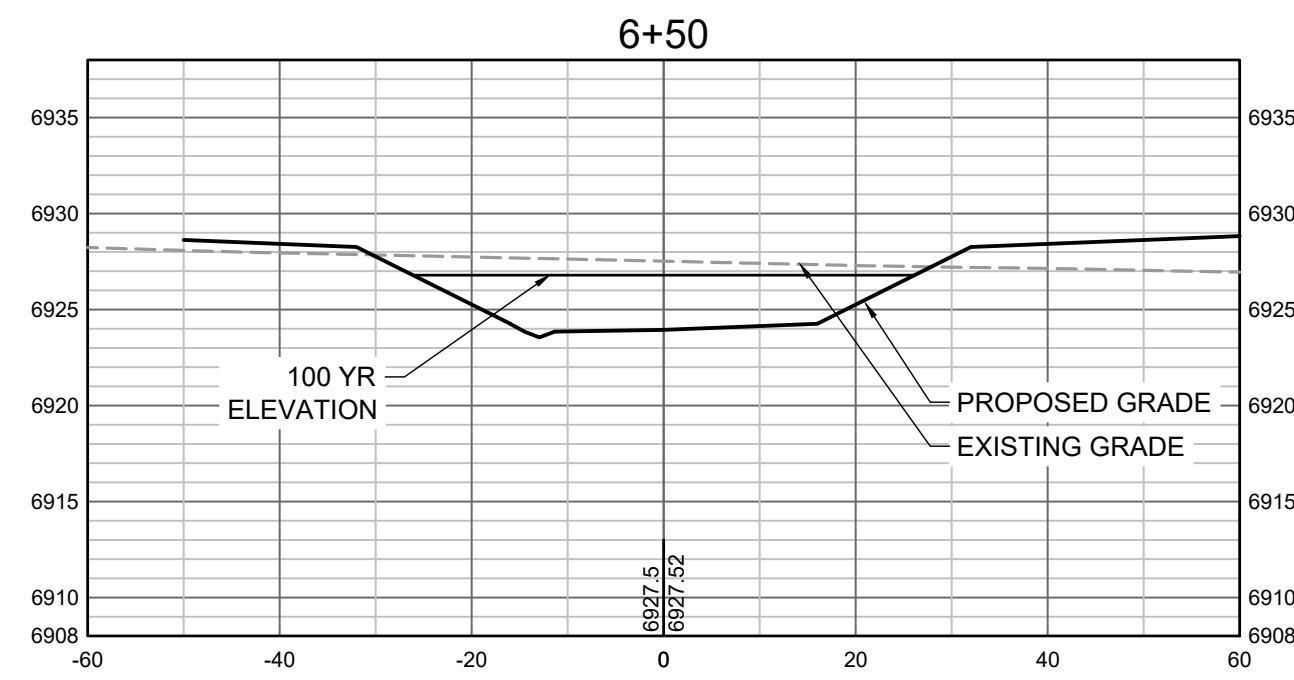
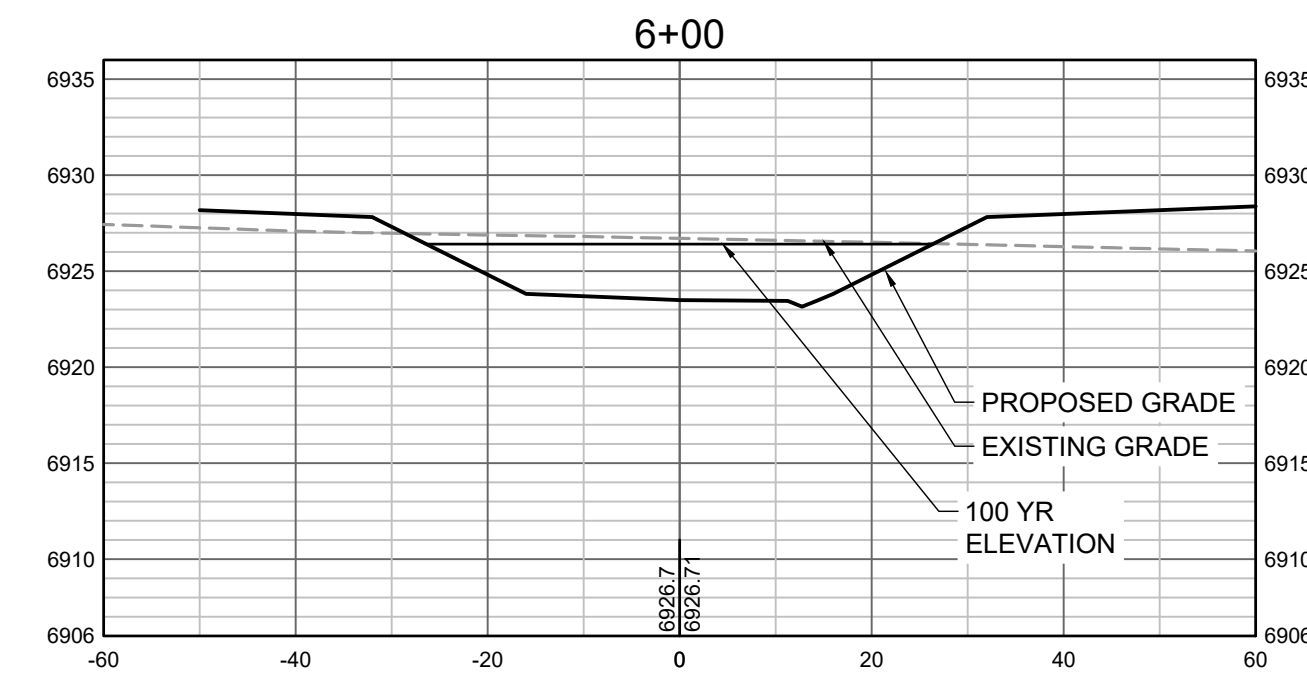
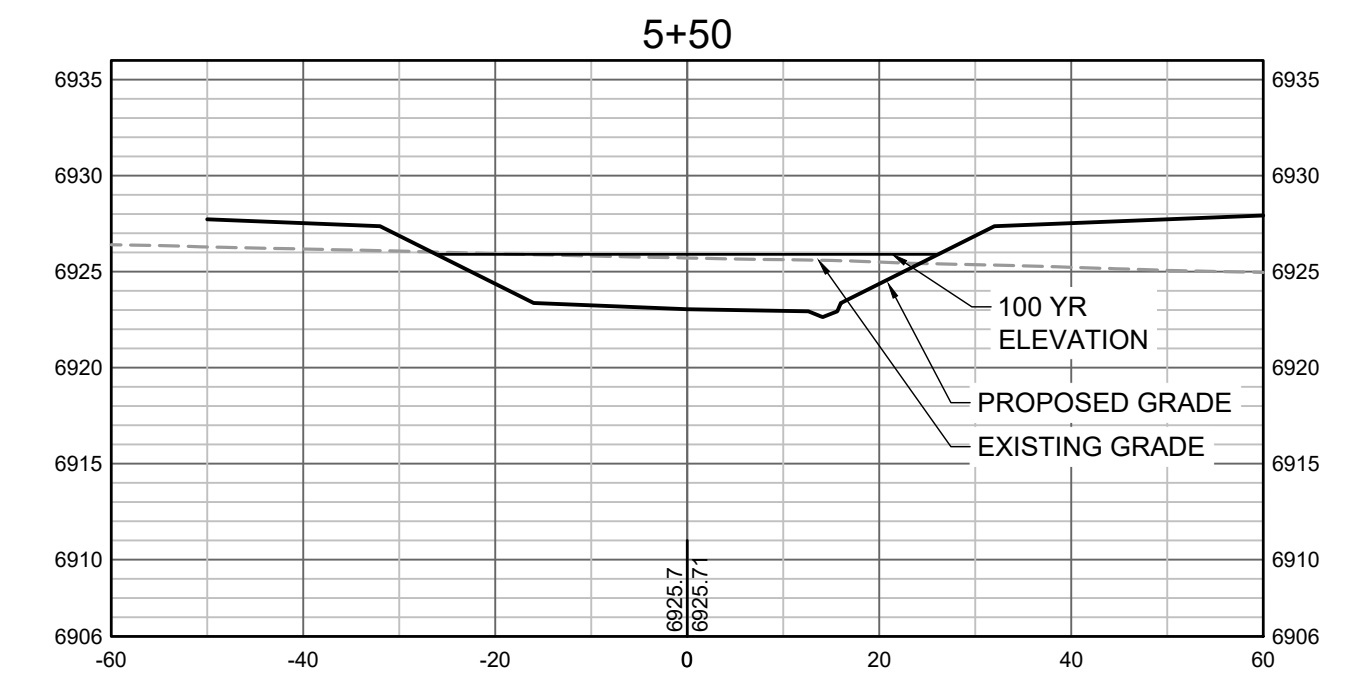
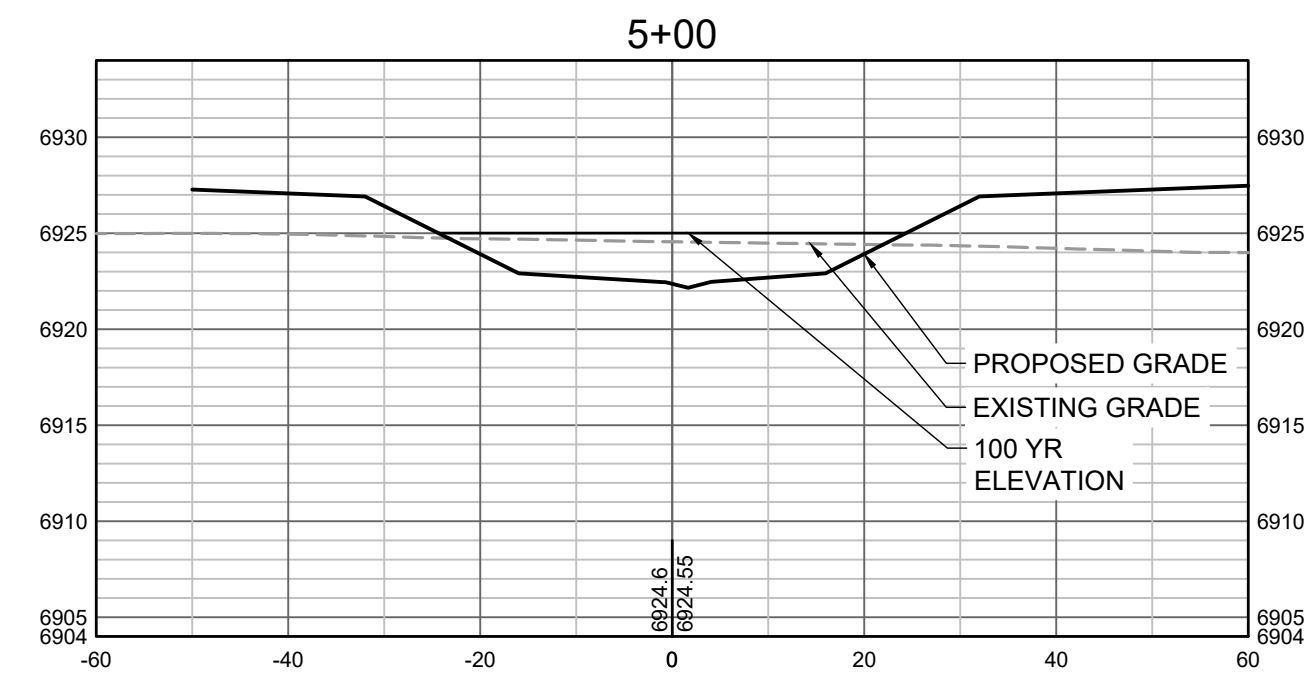
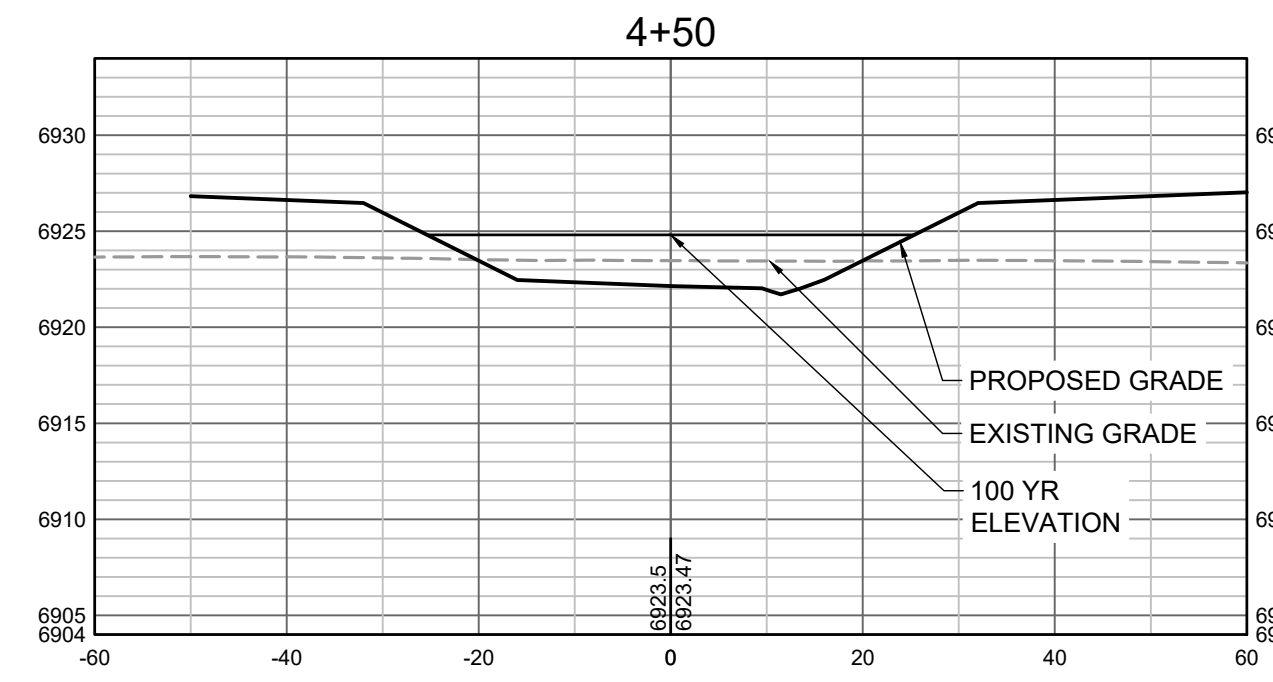


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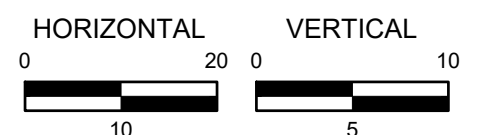
GRANDVIEW RESERVE (DRAINAGE A & B)
DR HORTON
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CONSTRUCTION DOCUMENTS
 TRIBUTARY 2 CROSS SECTIONS

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

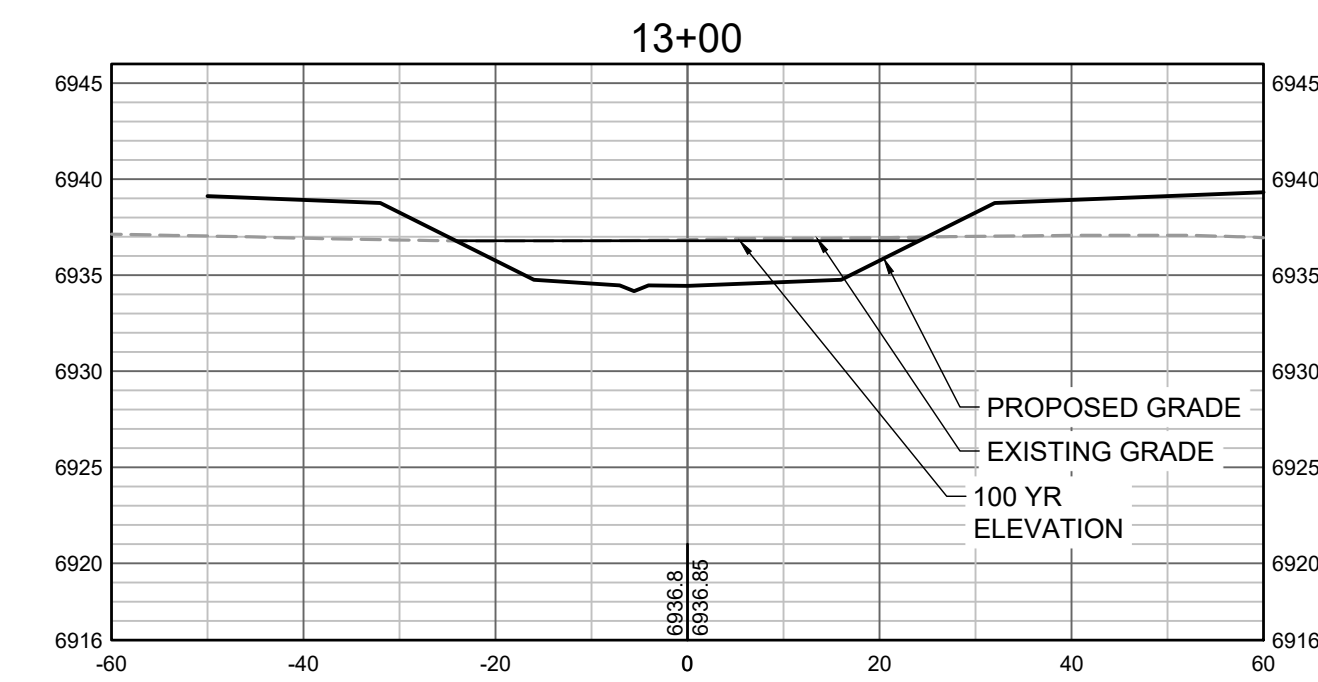
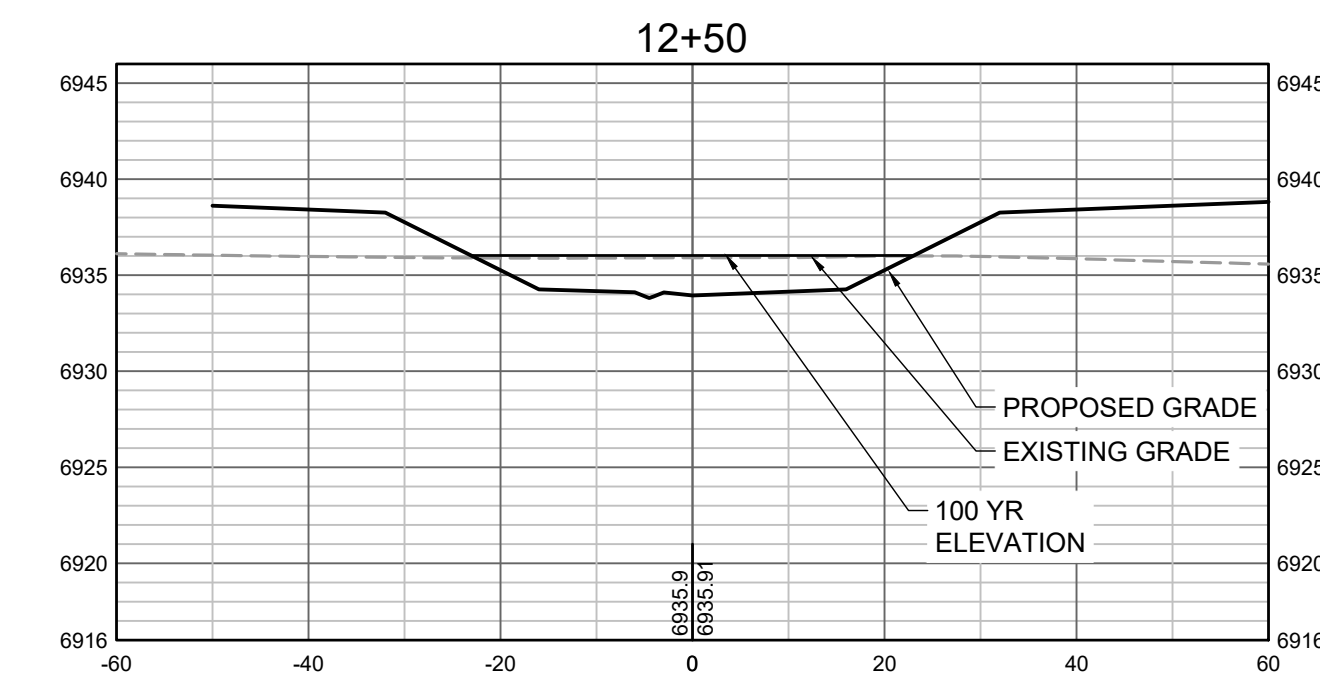
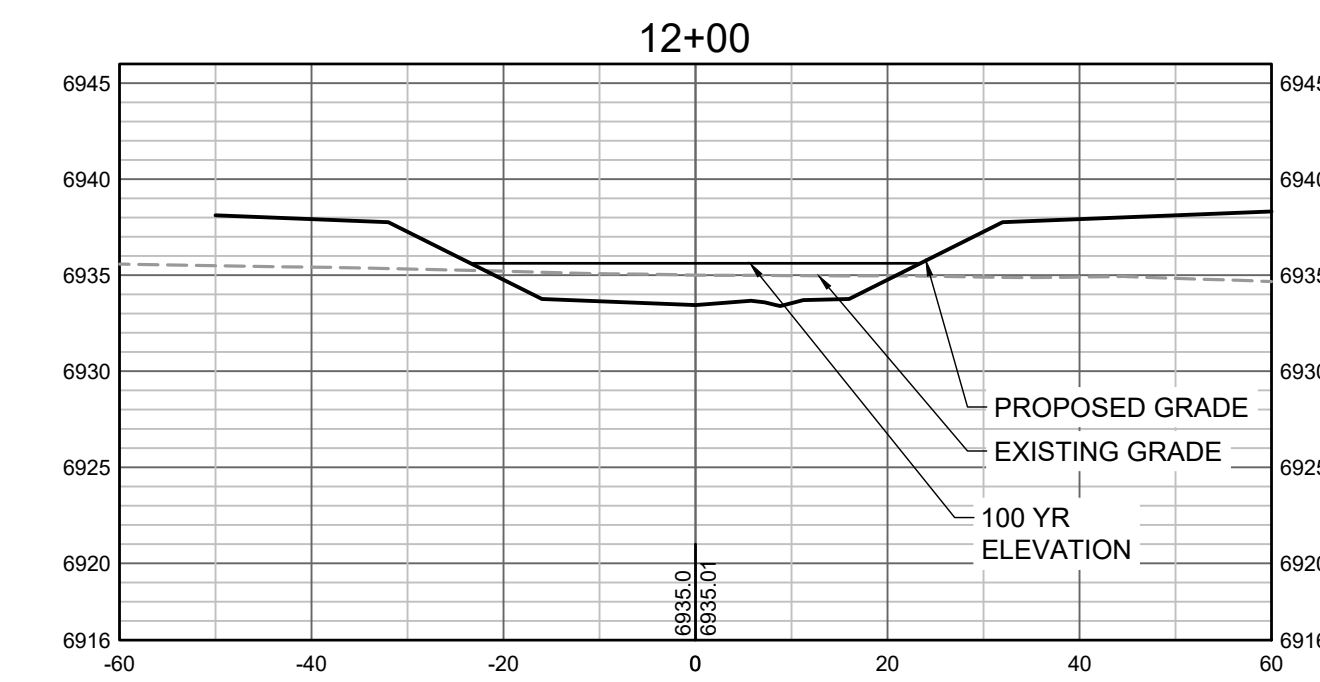
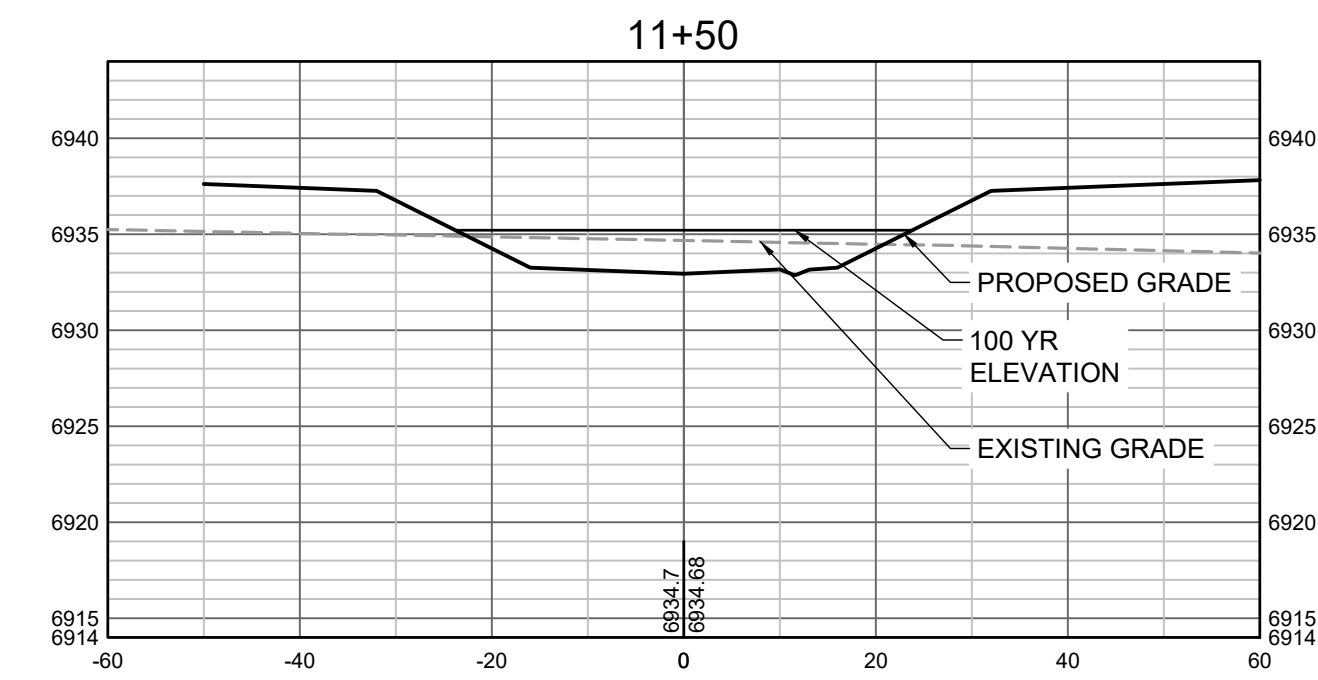
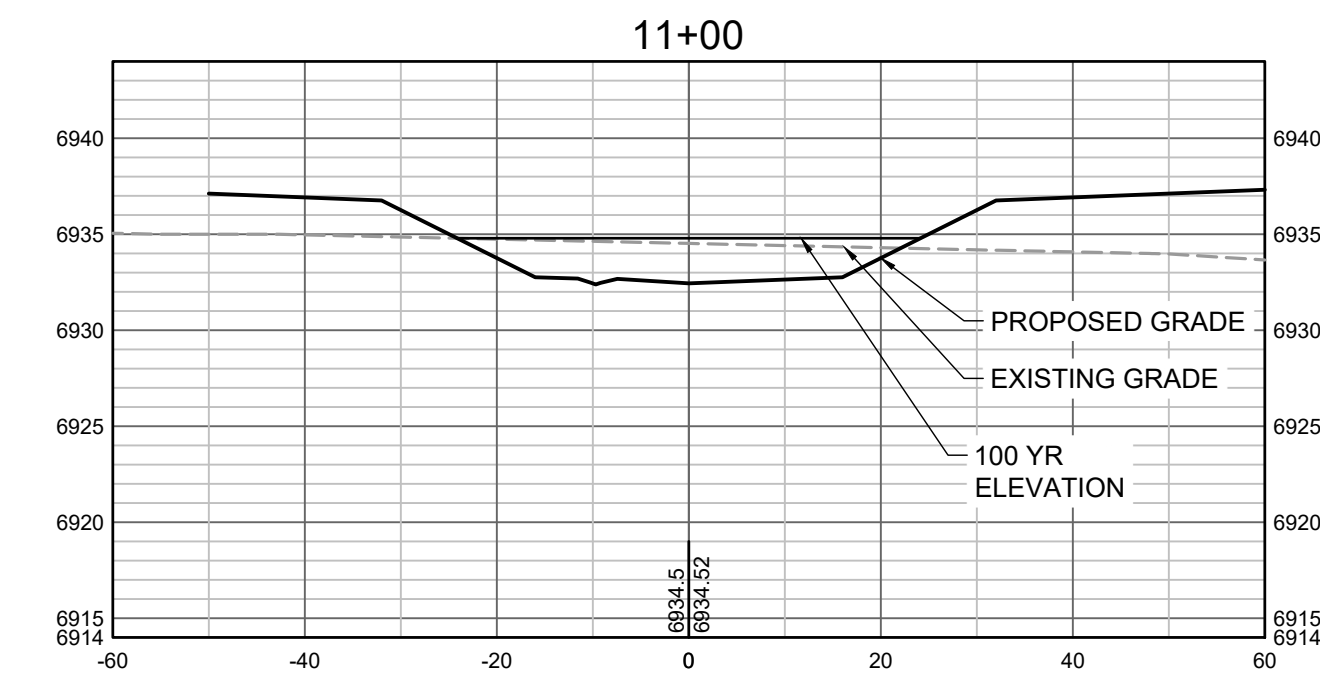
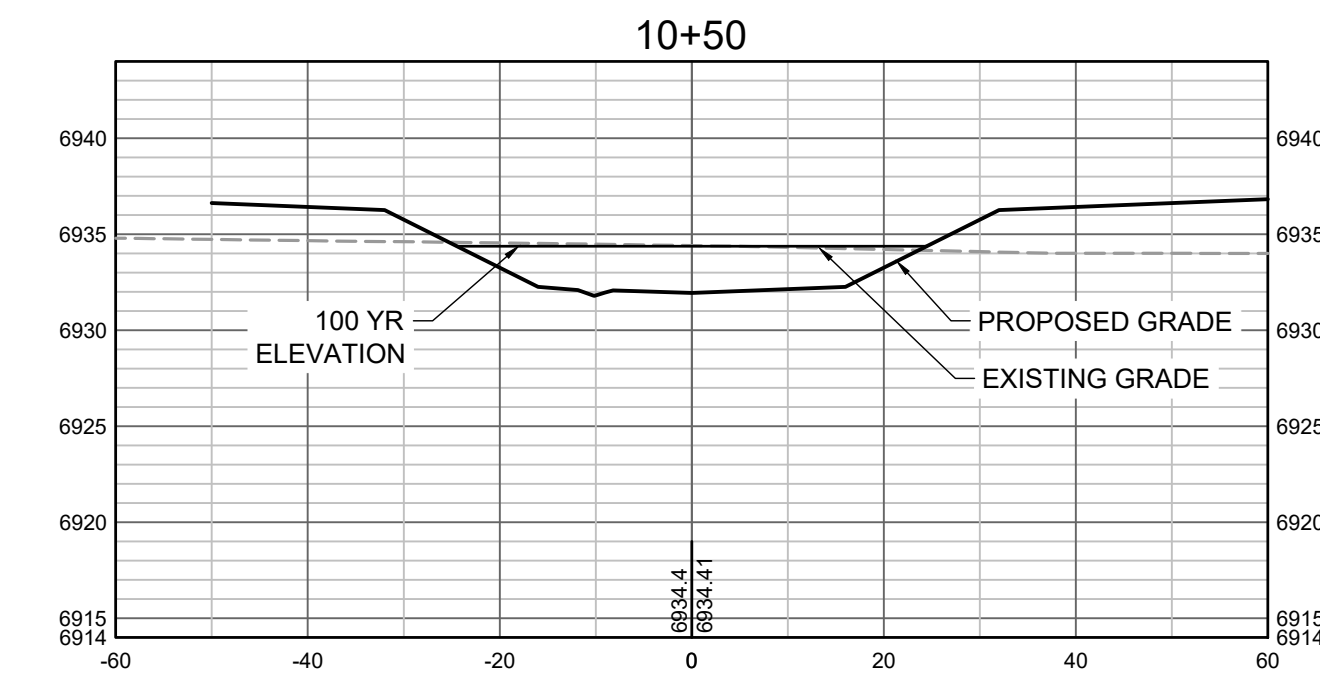
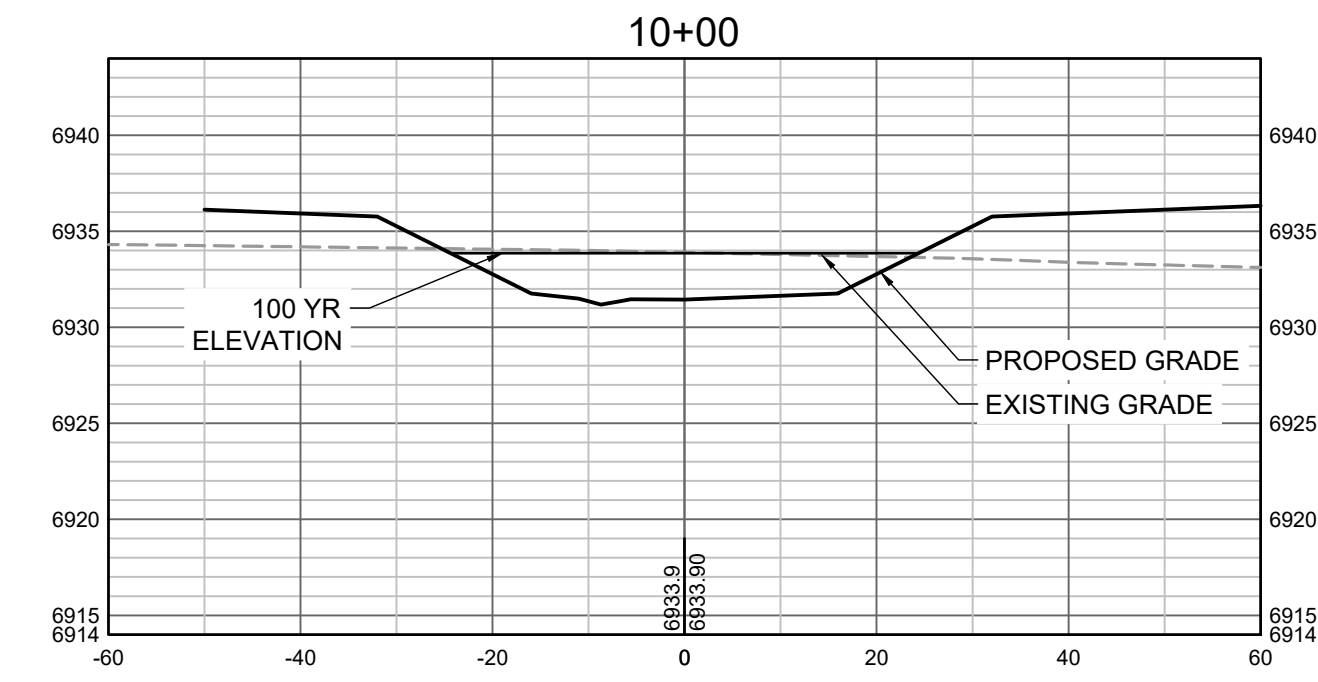
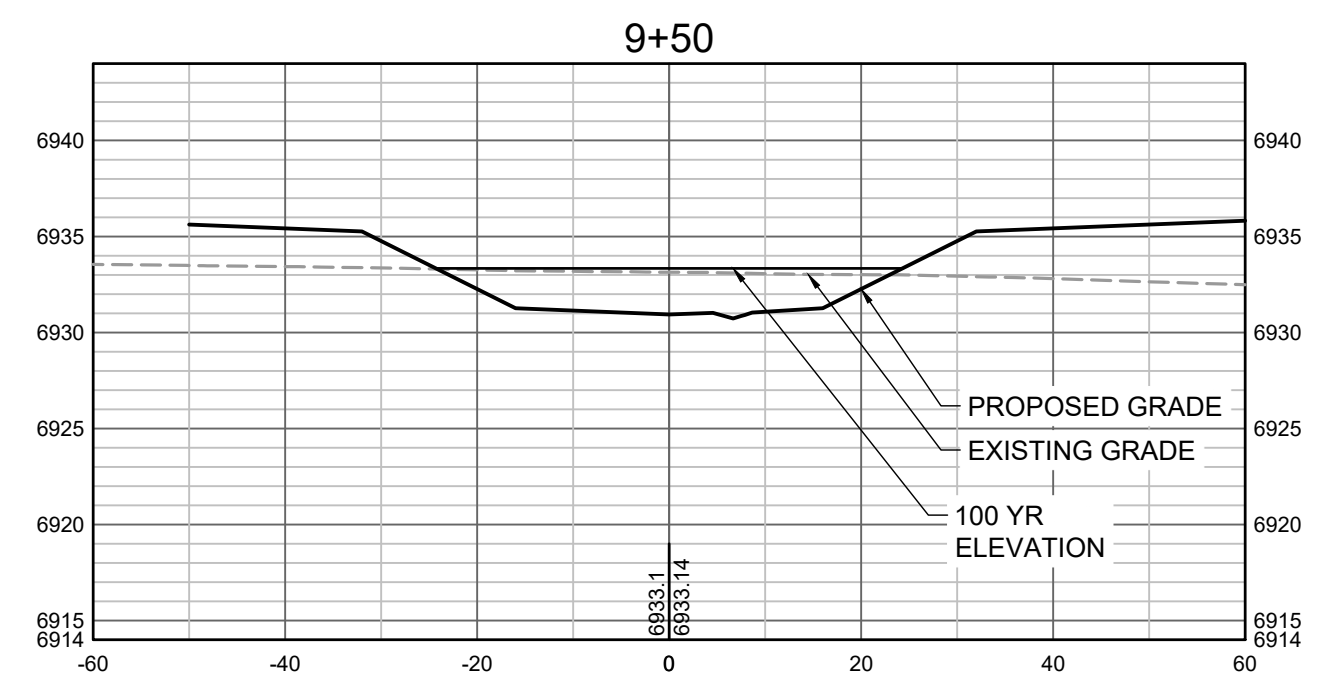
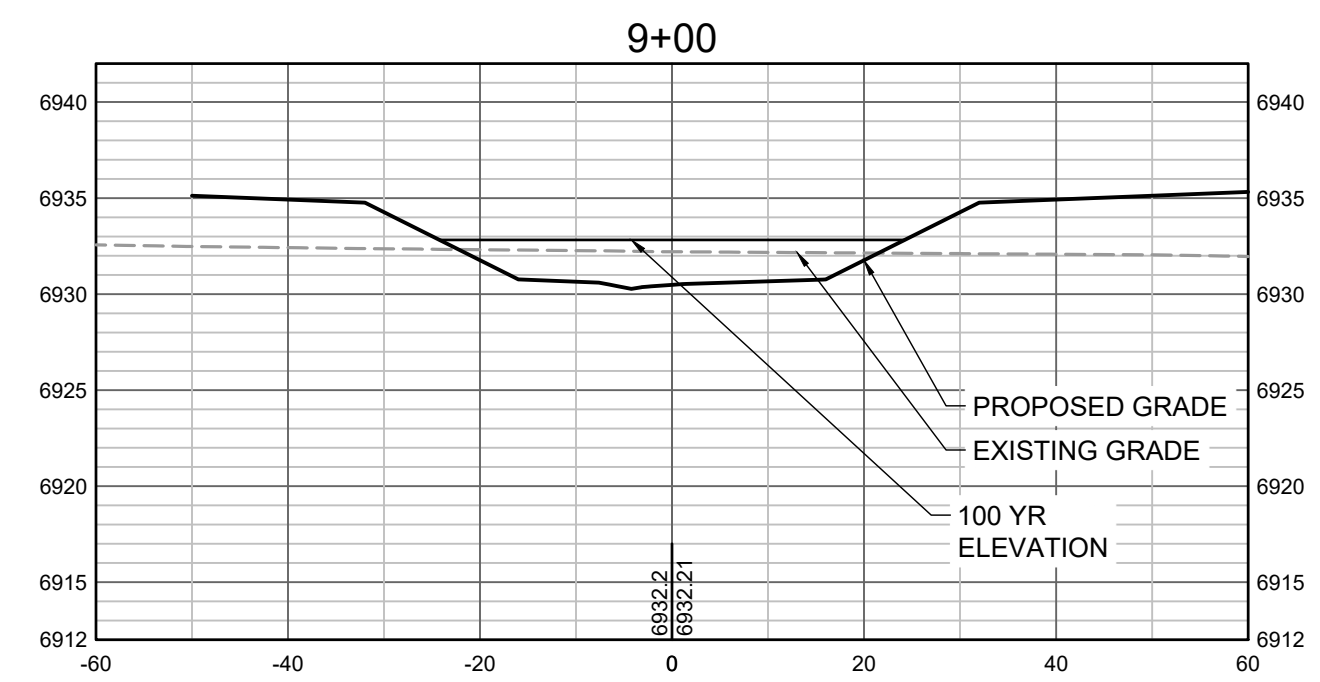


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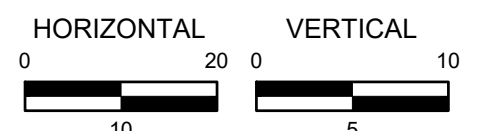
GRANDVIEW RESERVE (DRAINAGE A & B)
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CONSTRUCTION DOCUMENTS
 TRIBUTARY 2 CROSS SECTIONS

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

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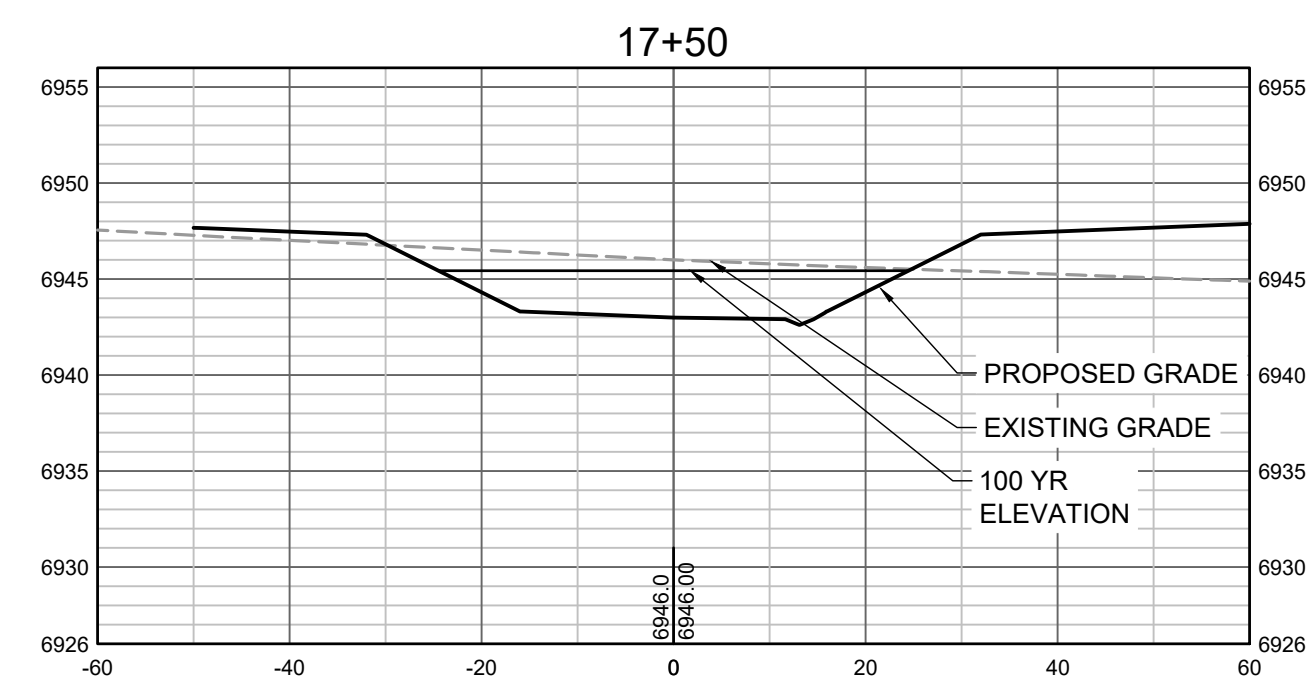
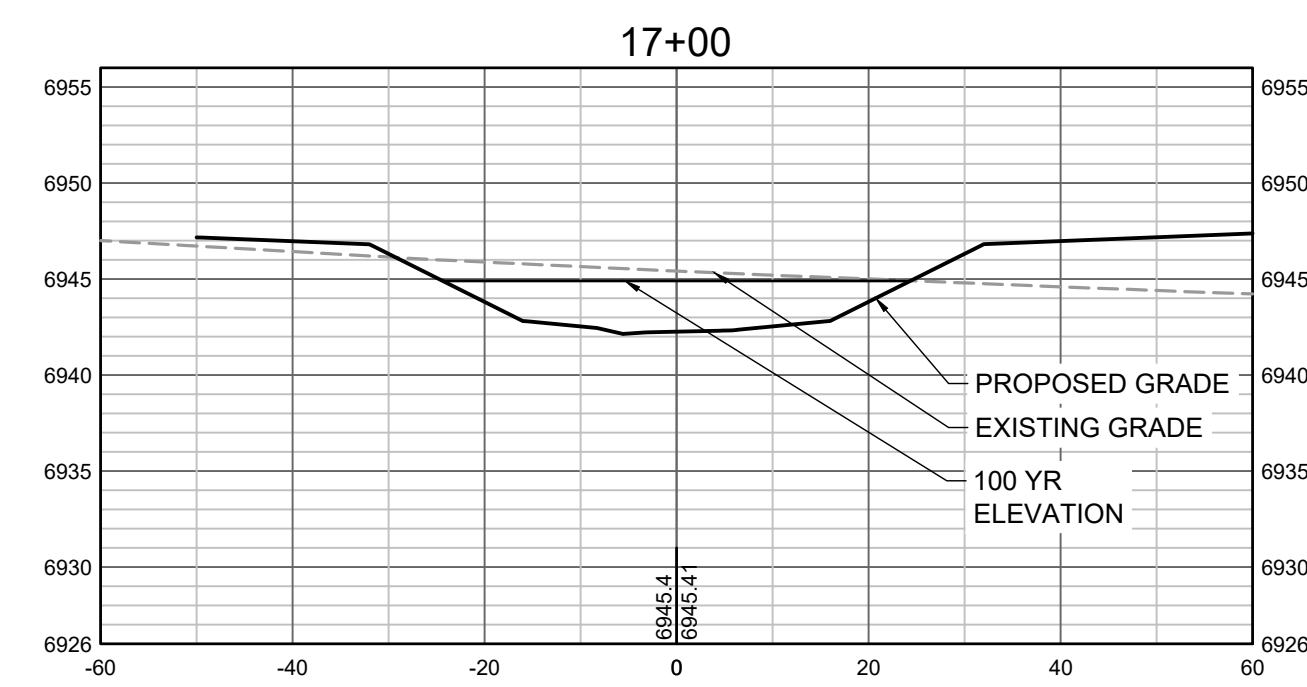
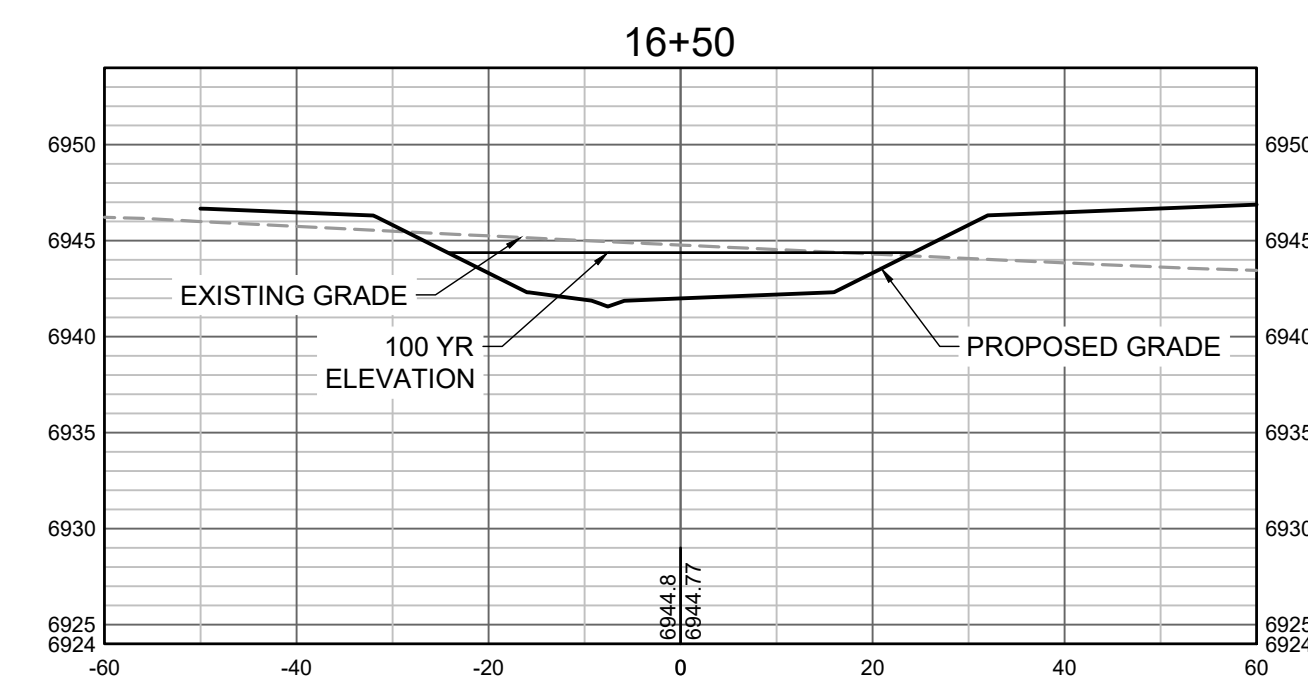
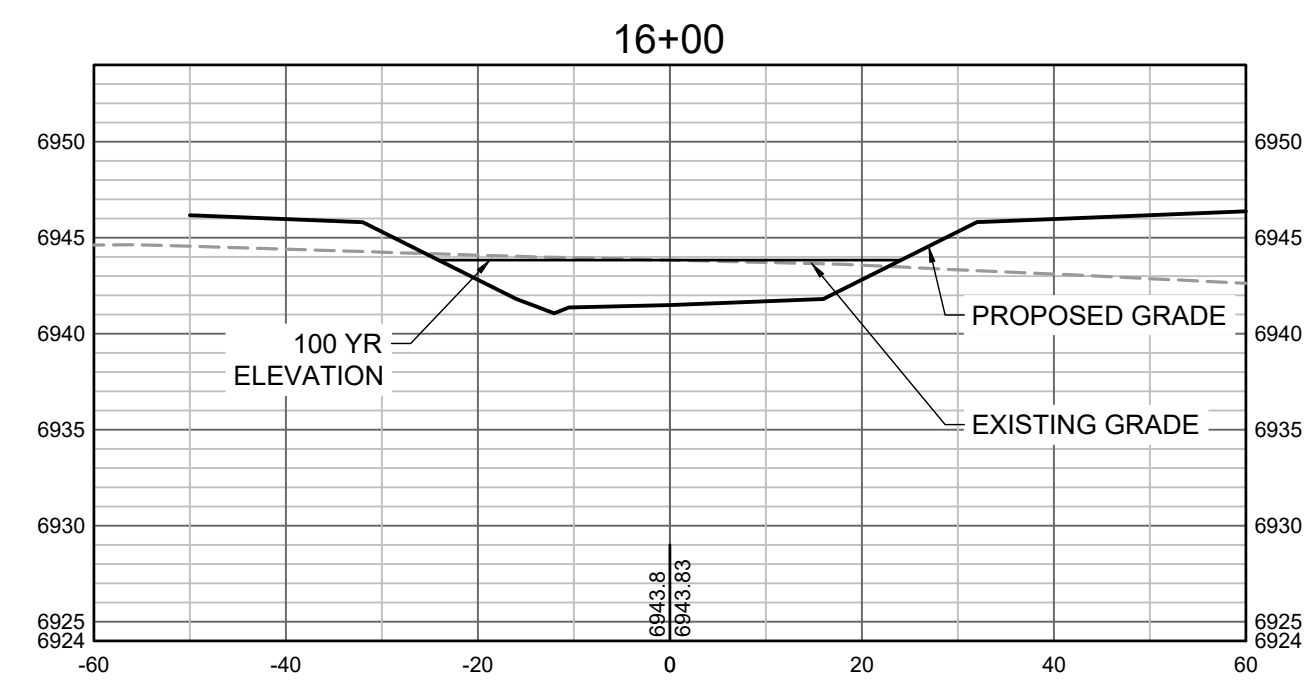
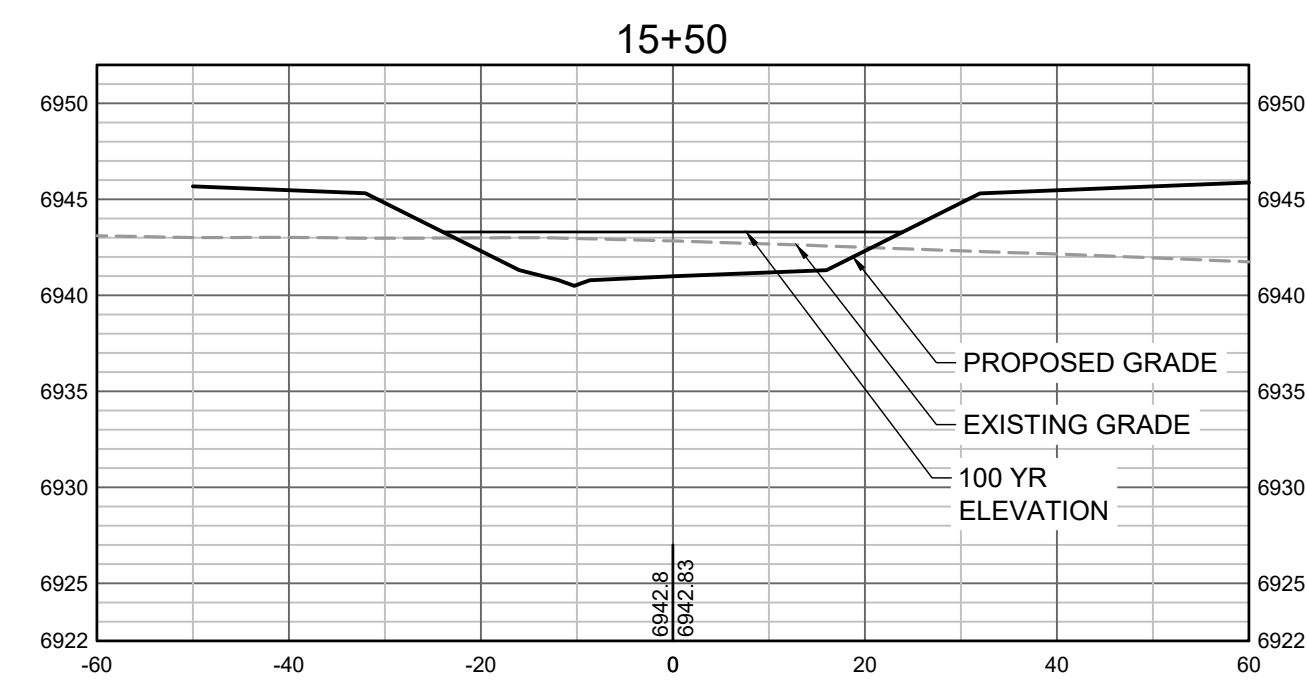
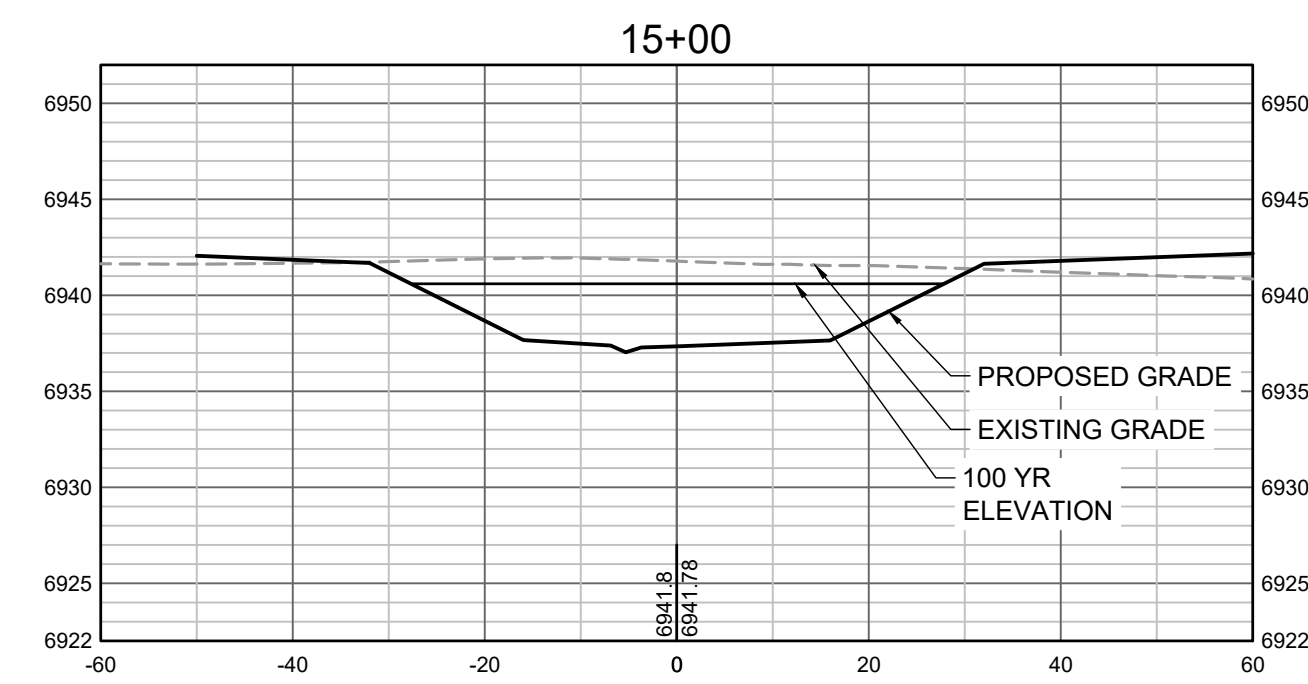
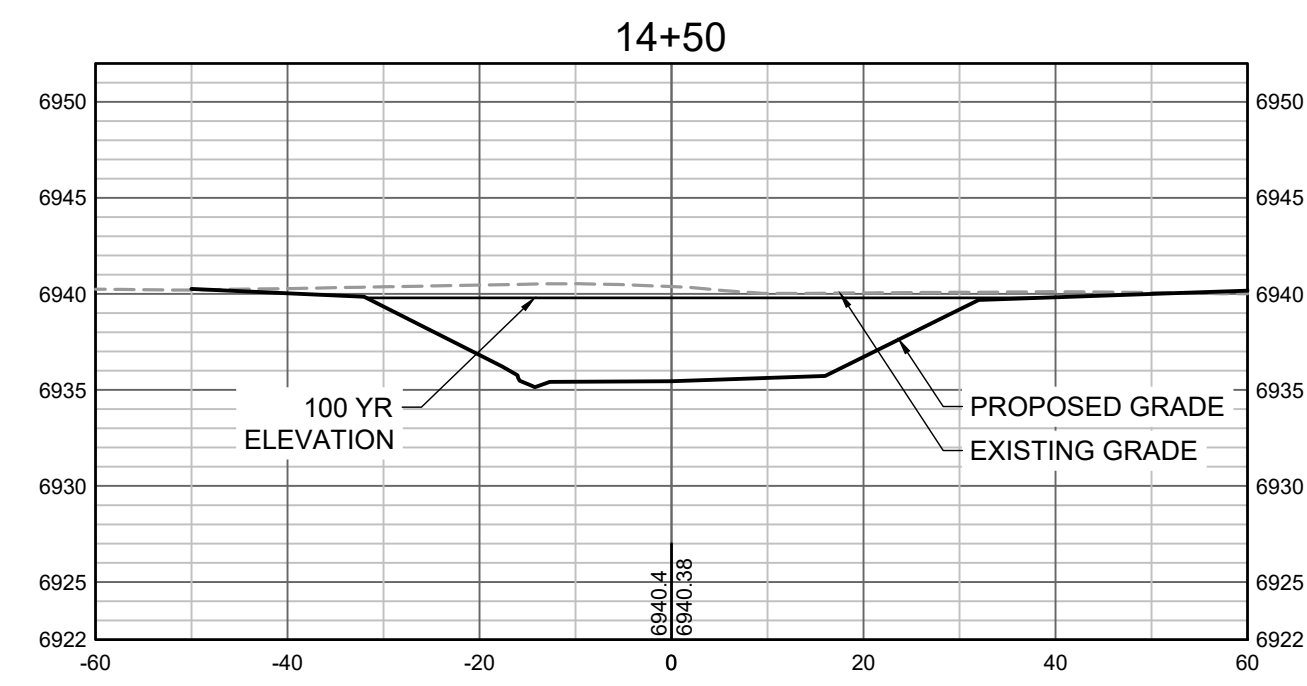
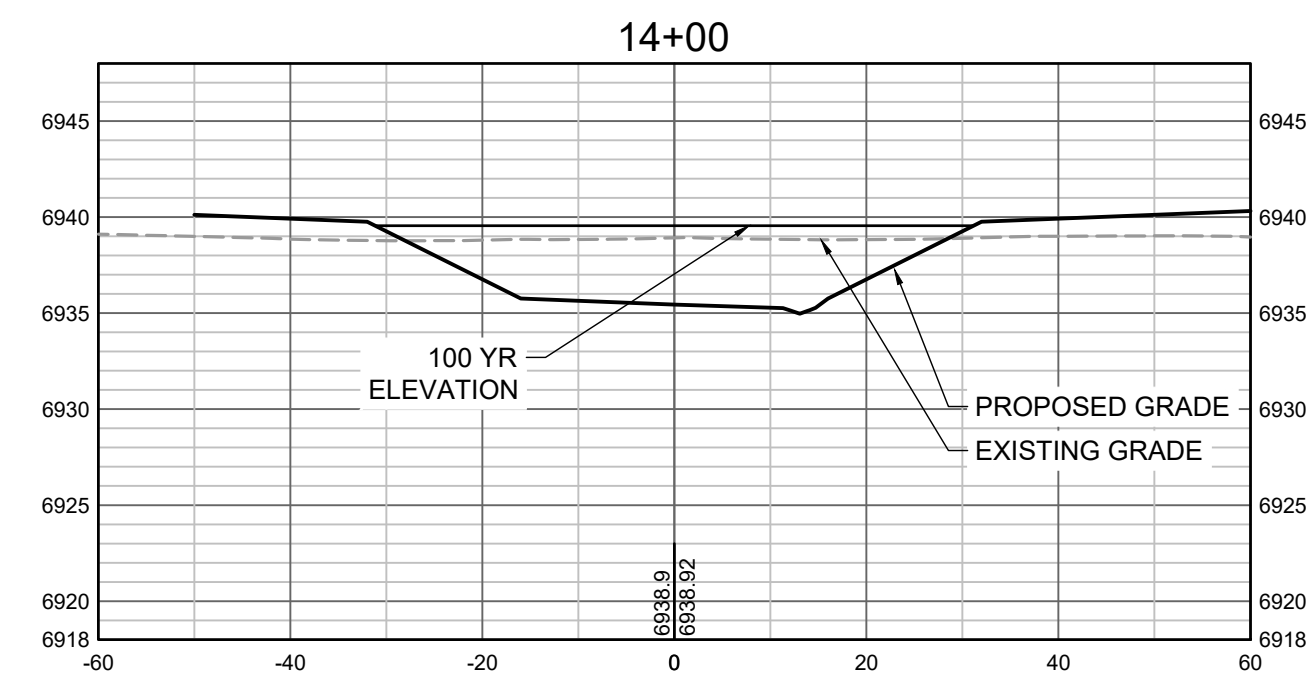
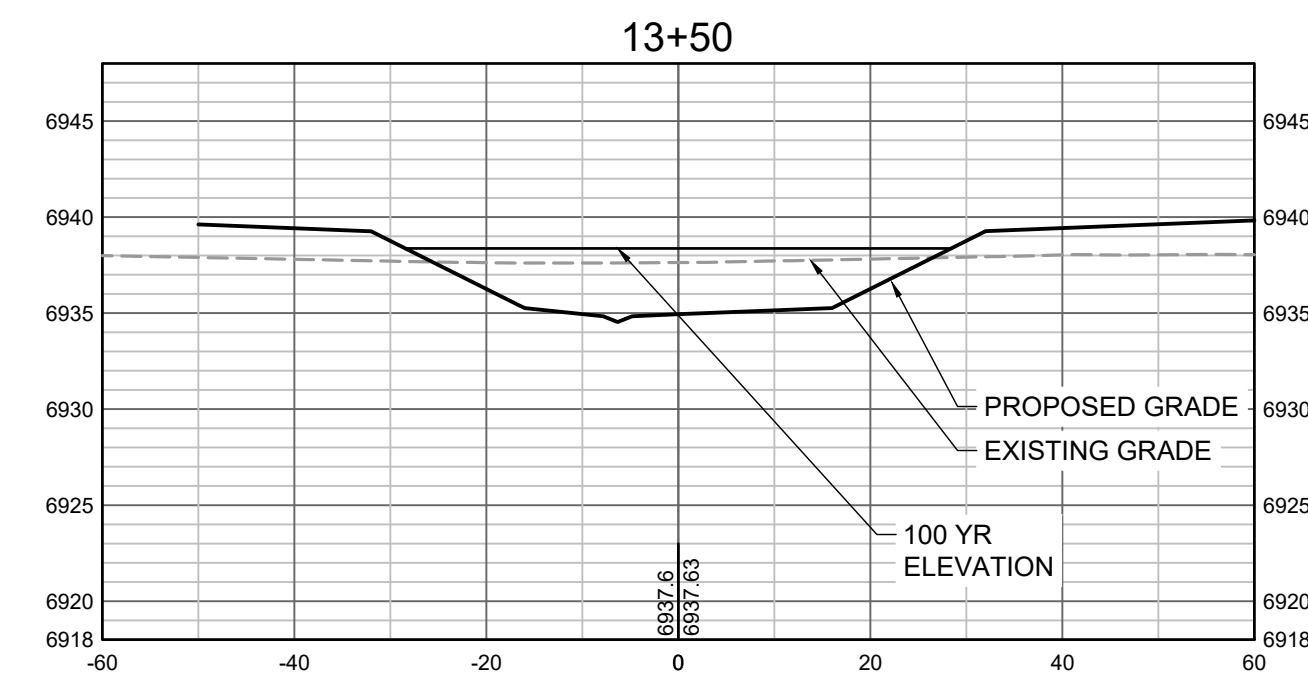


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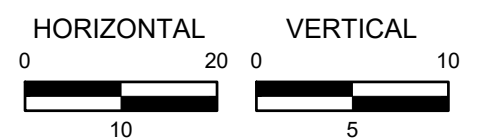
GRANDVIEW RESERVE (DRAINAGE A & B)
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CONSTRUCTION DOCUMENTS
 TRIBUTARY 2 CROSS SECTIONS

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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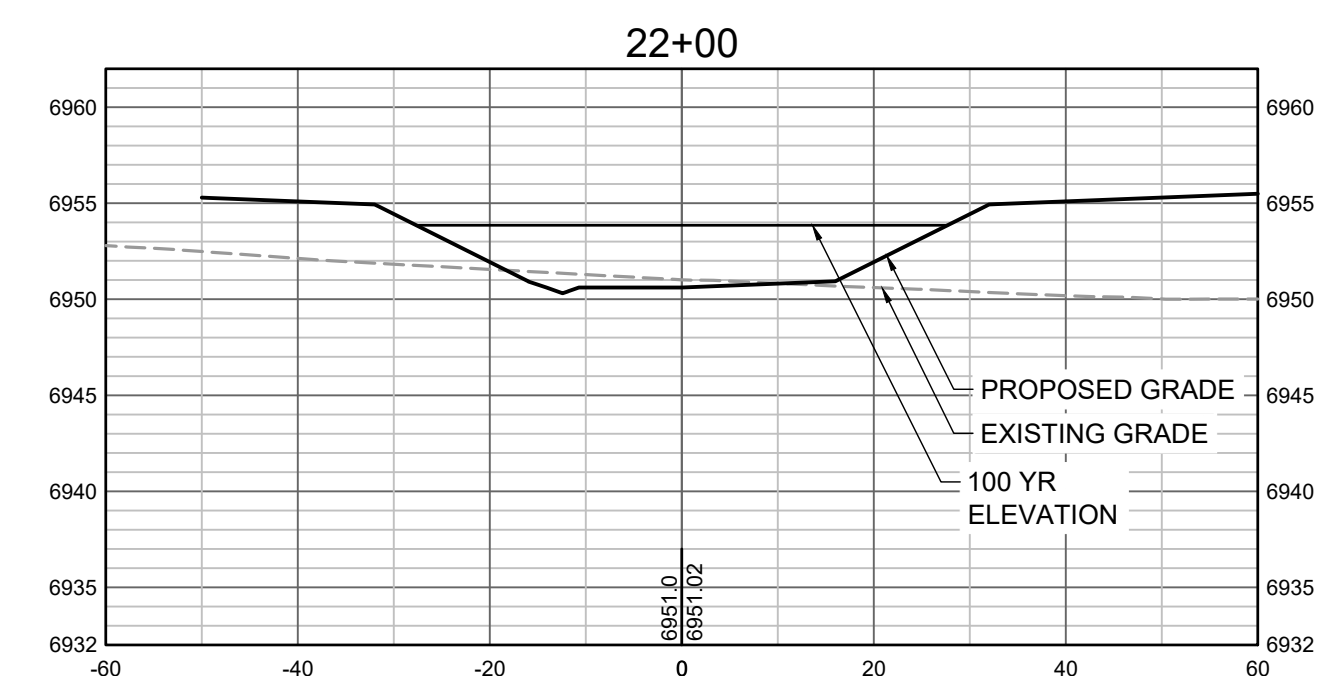
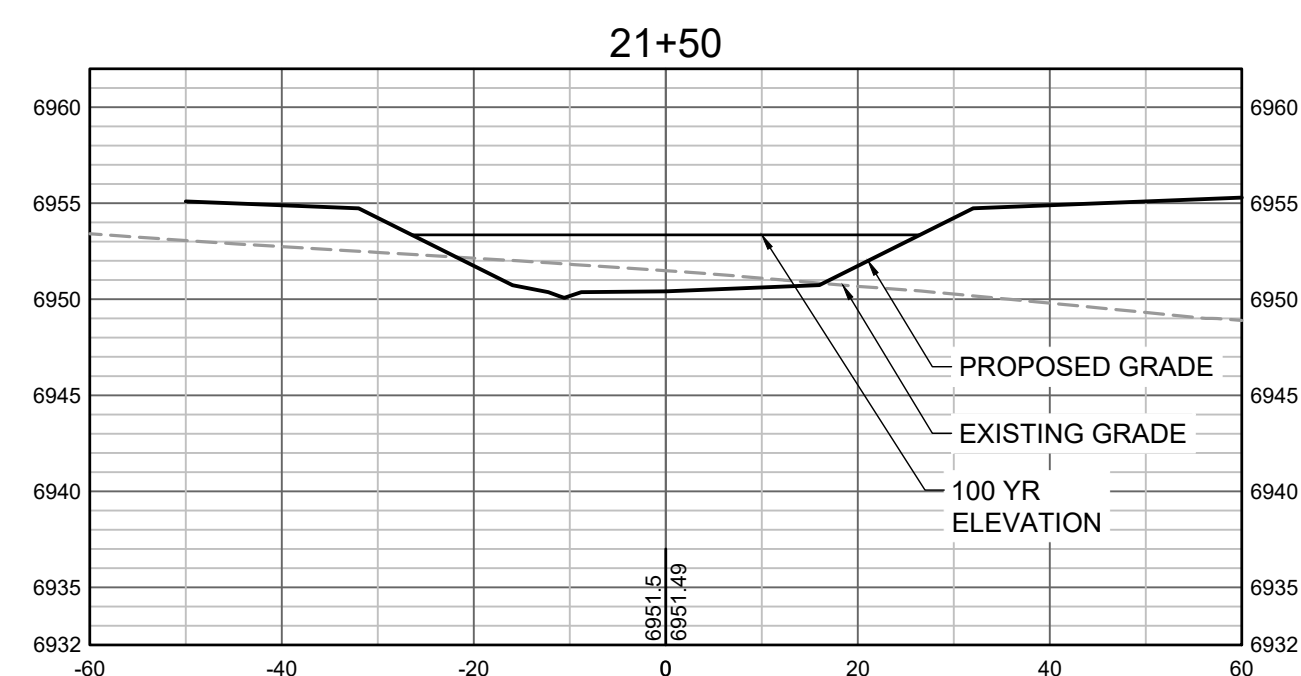
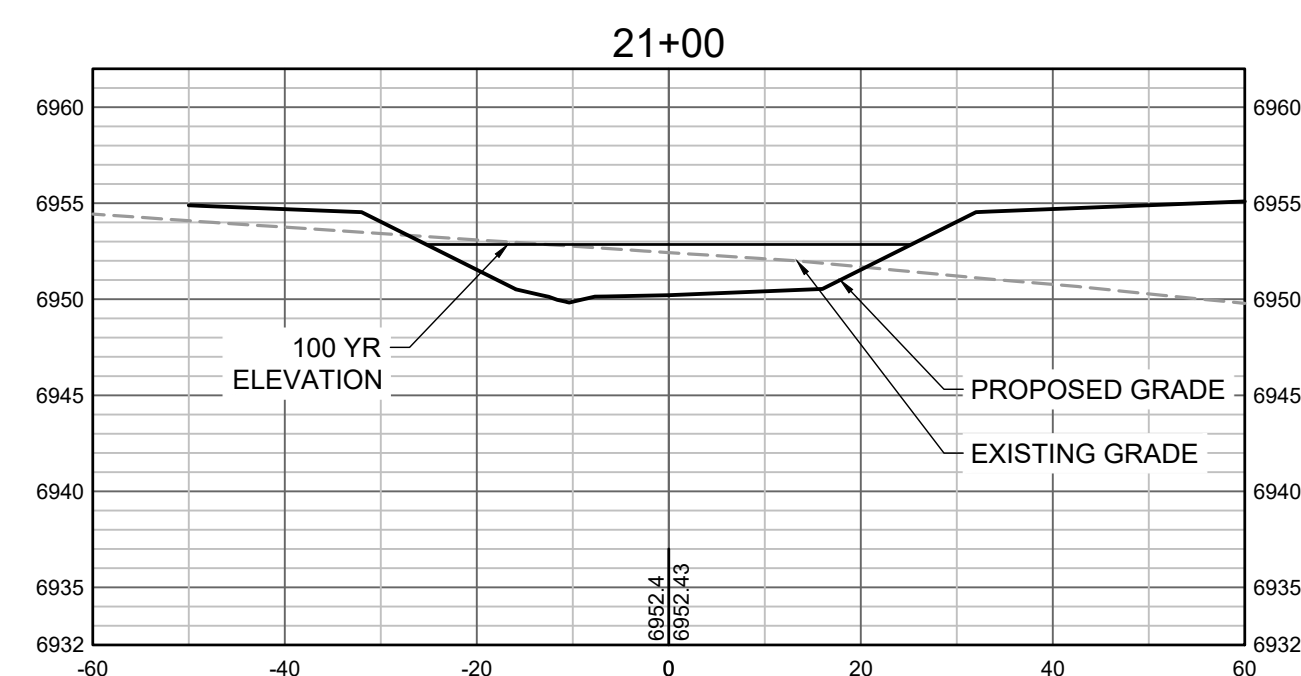
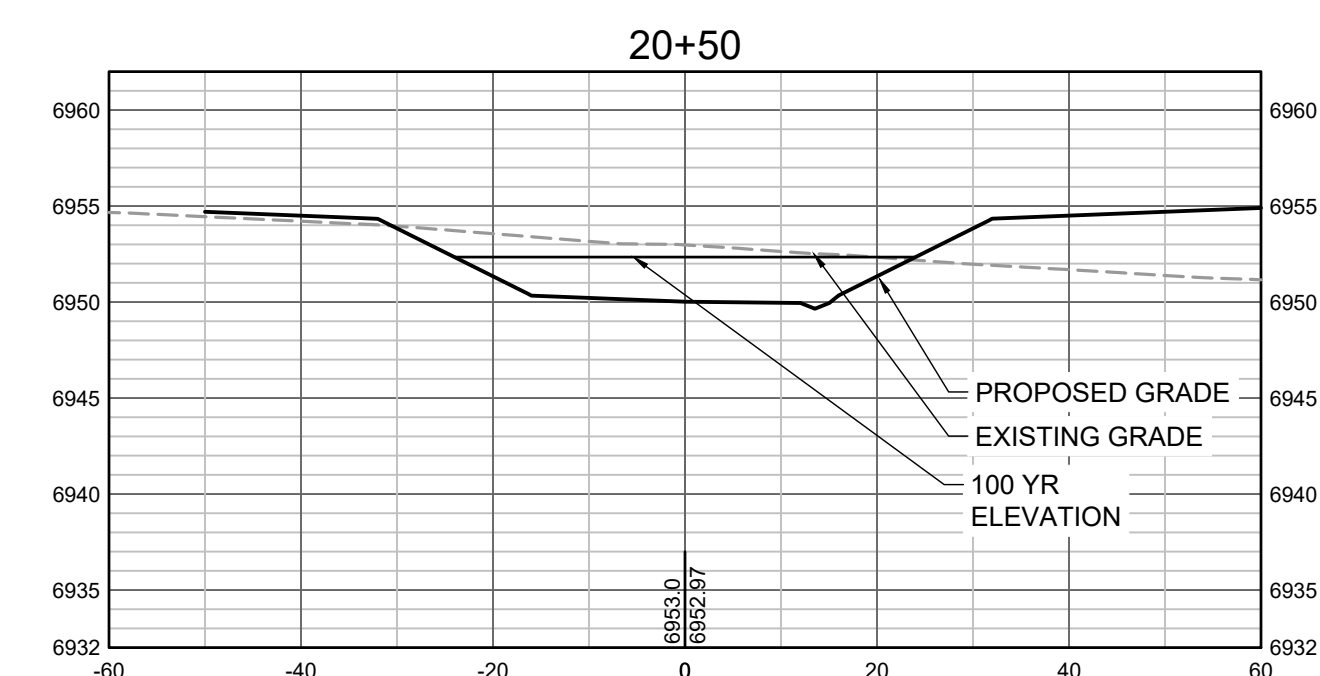
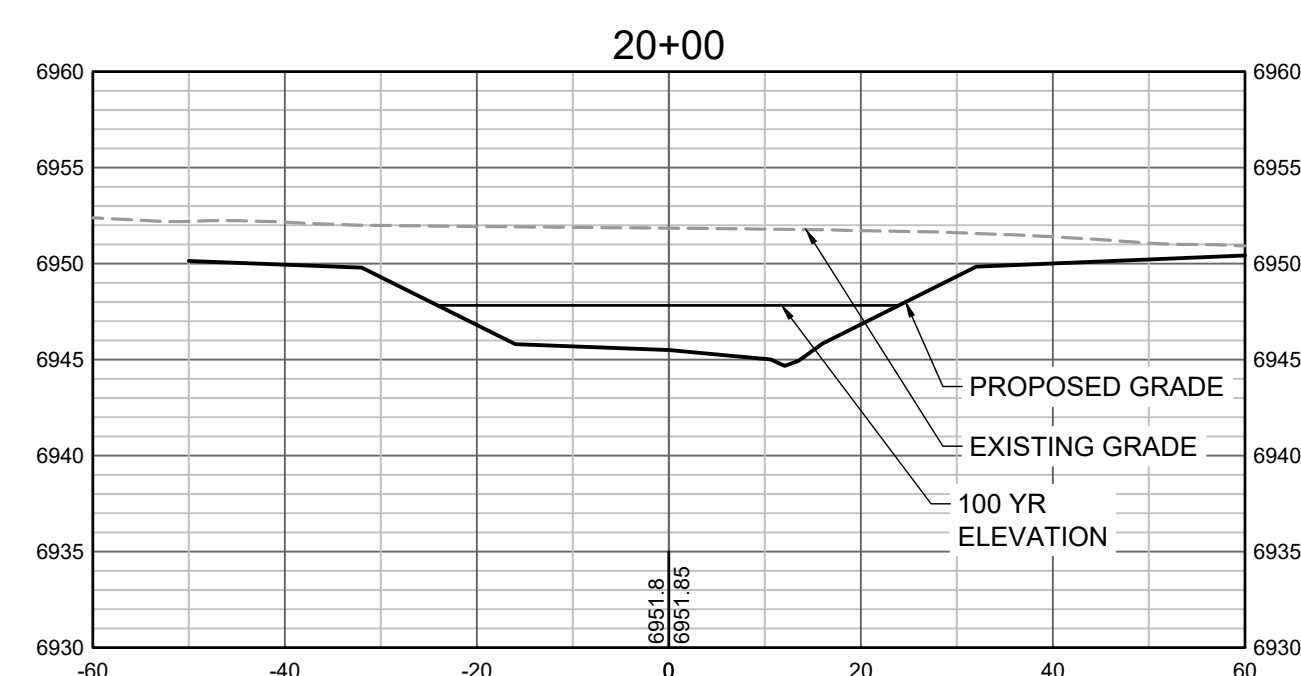
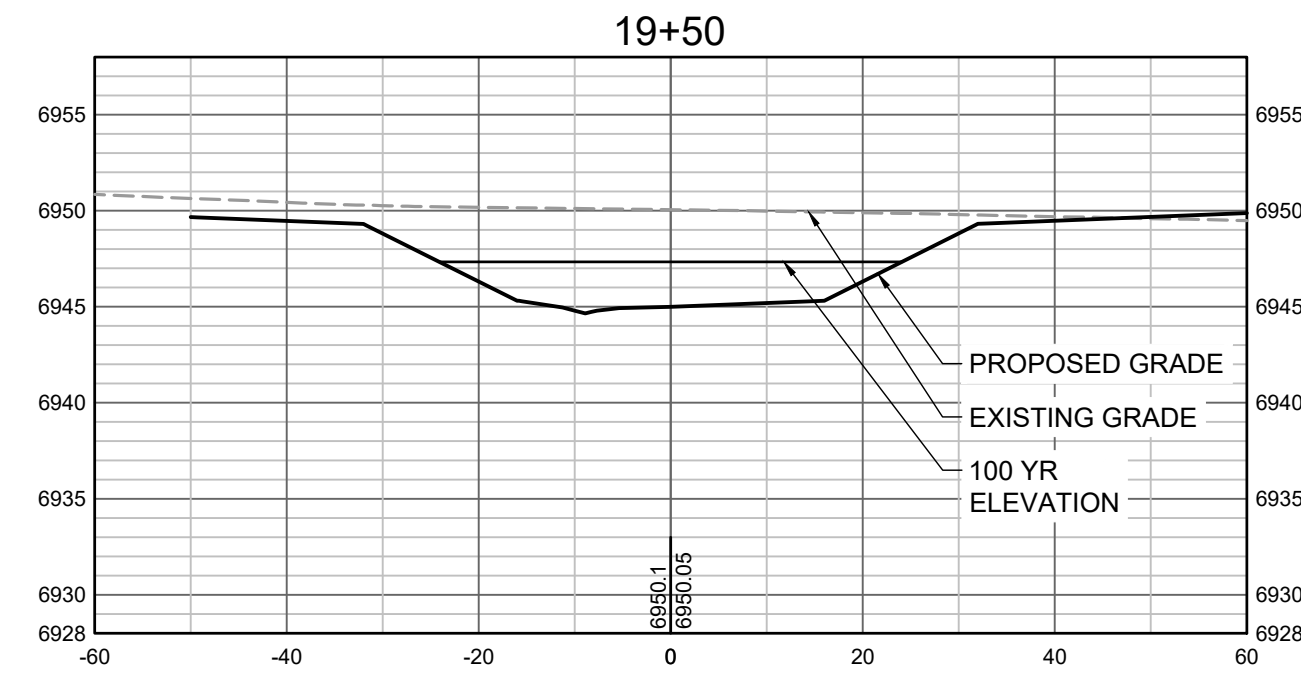
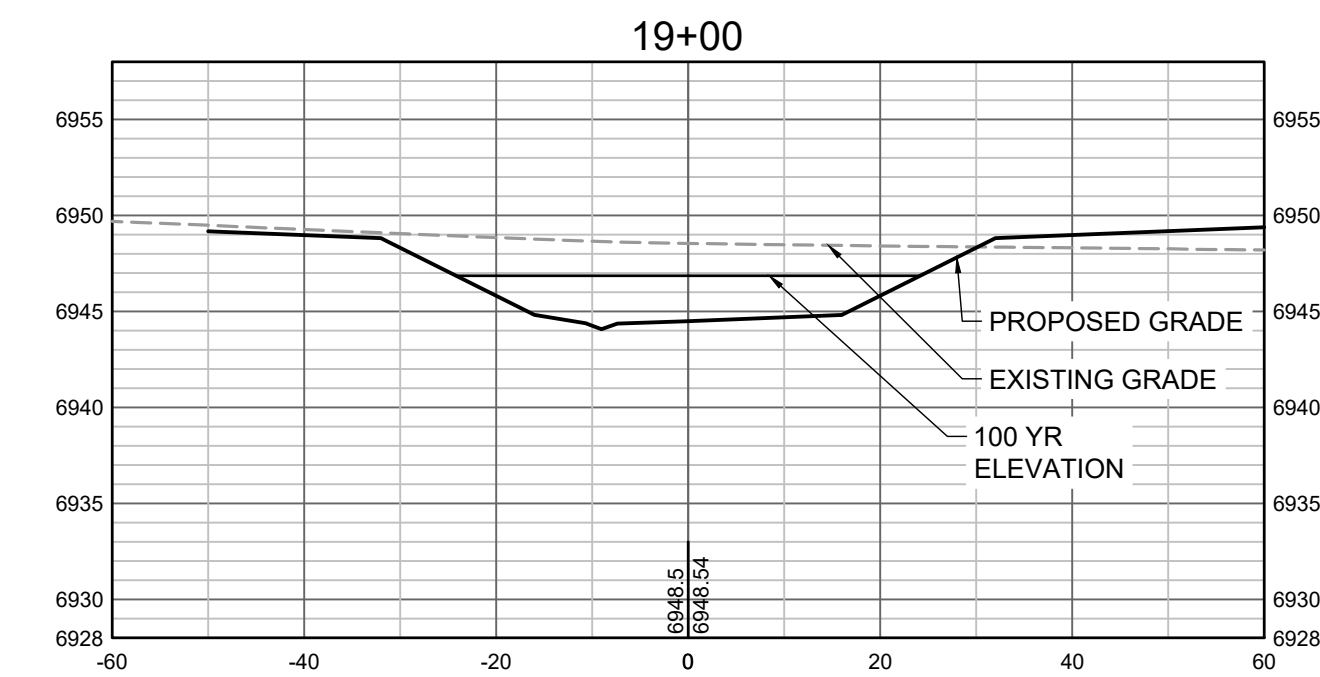
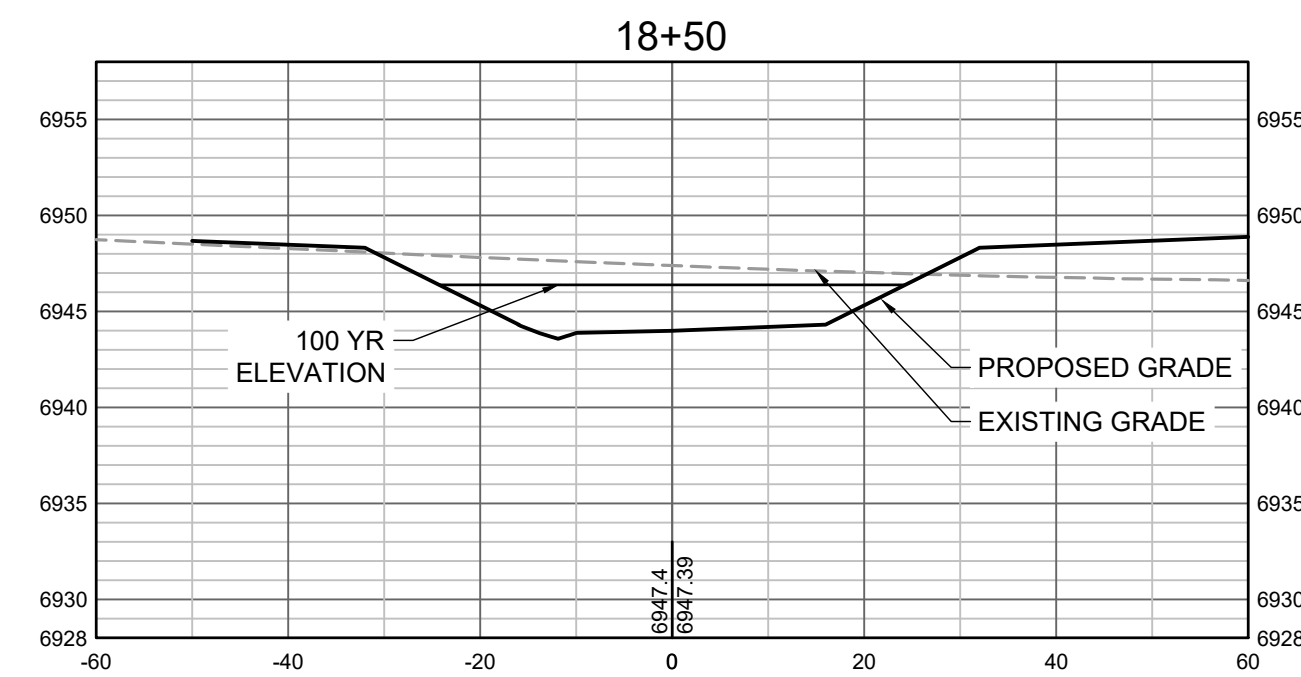
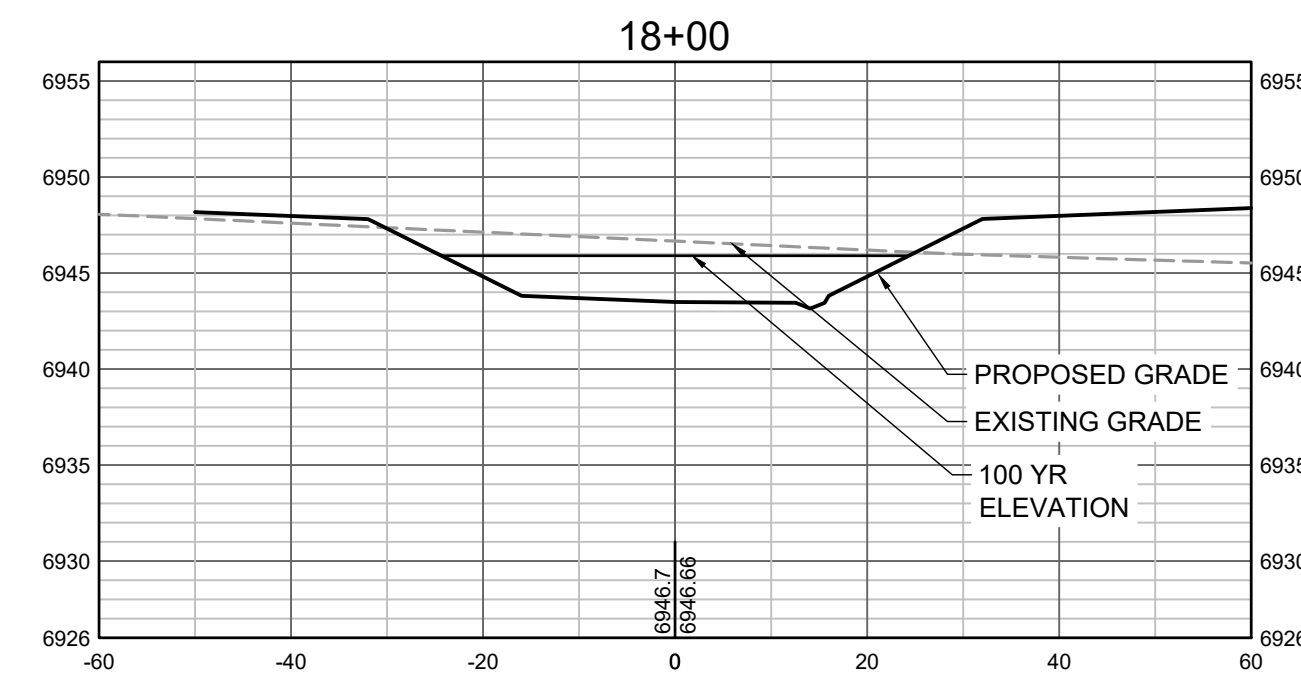
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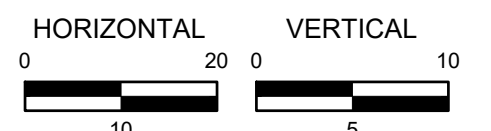
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CONSTRUCTION DOCUMENTS
 TRIBUTARY 2 CROSS SECTIONS

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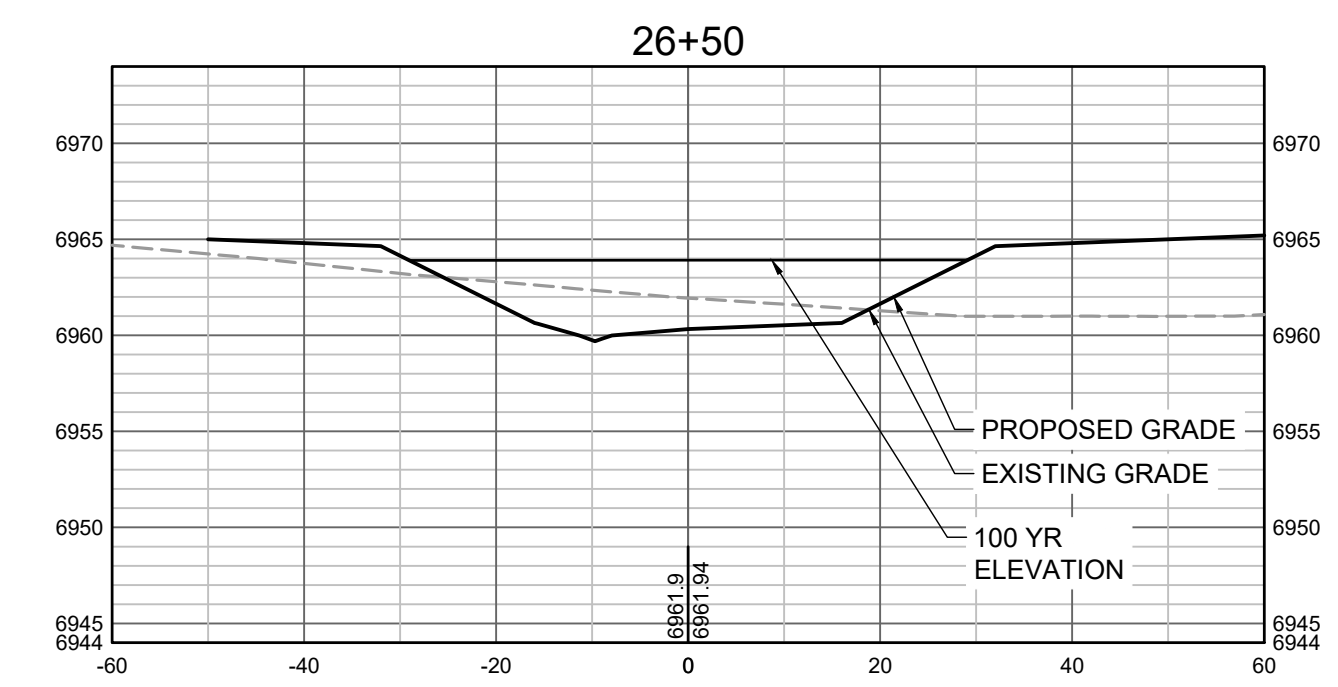
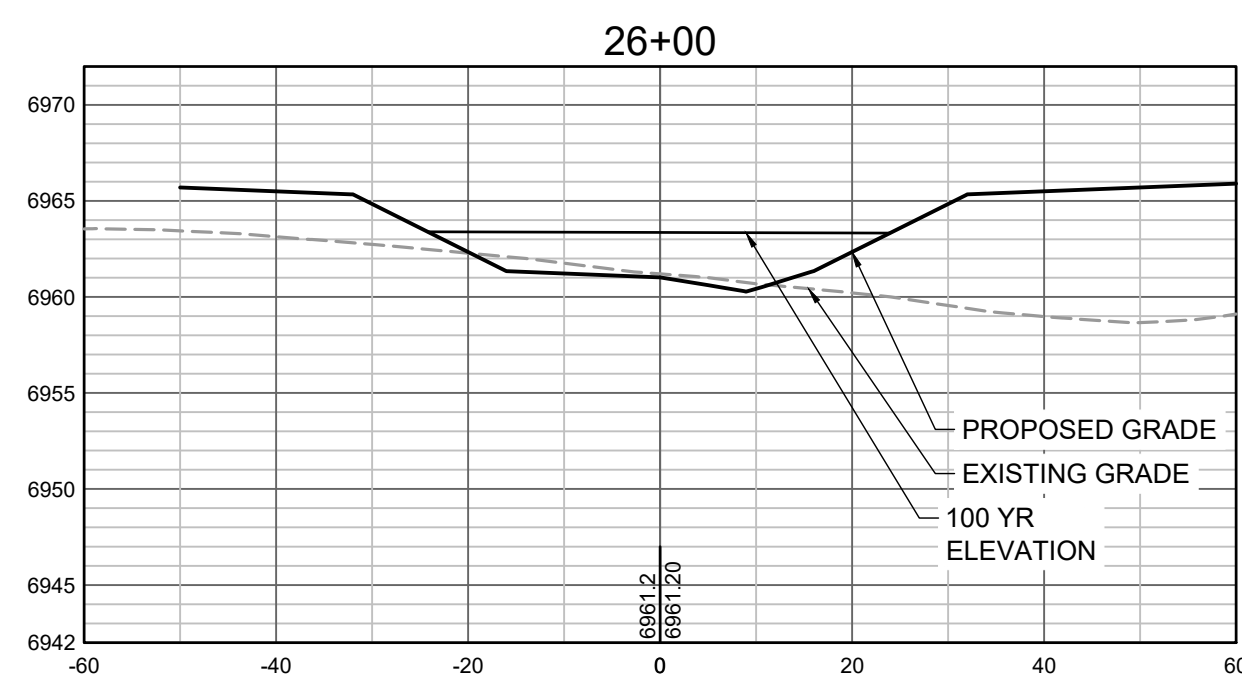
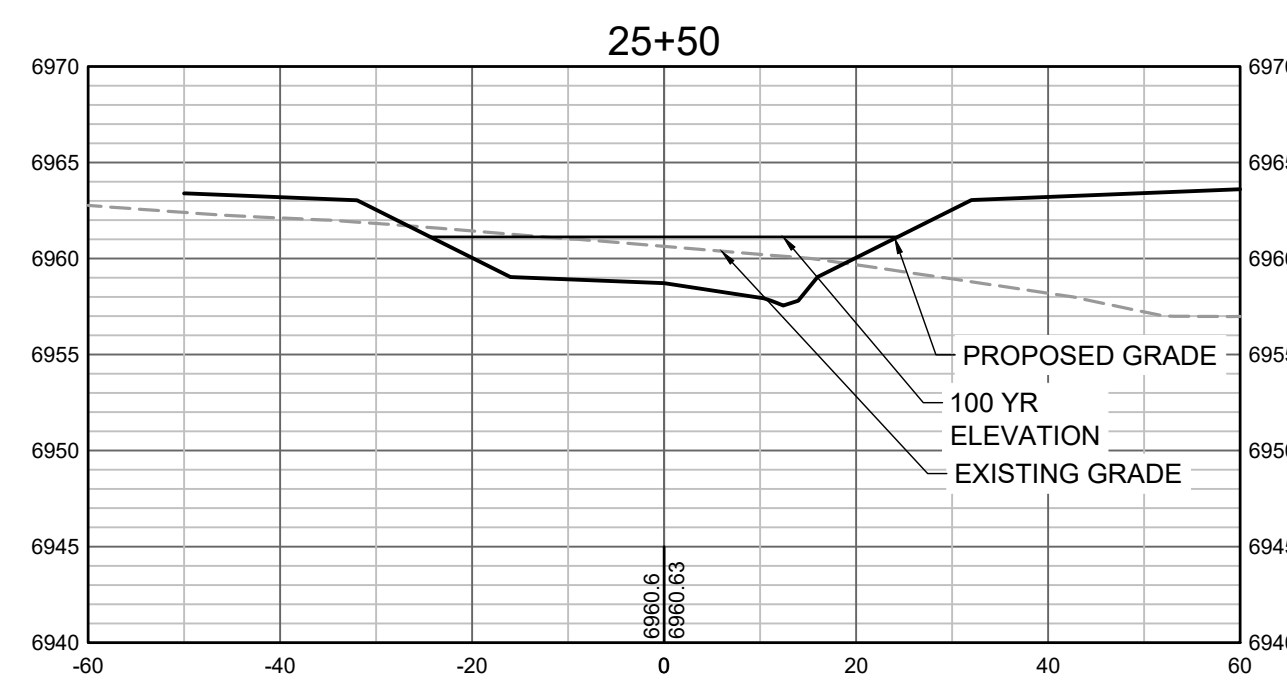
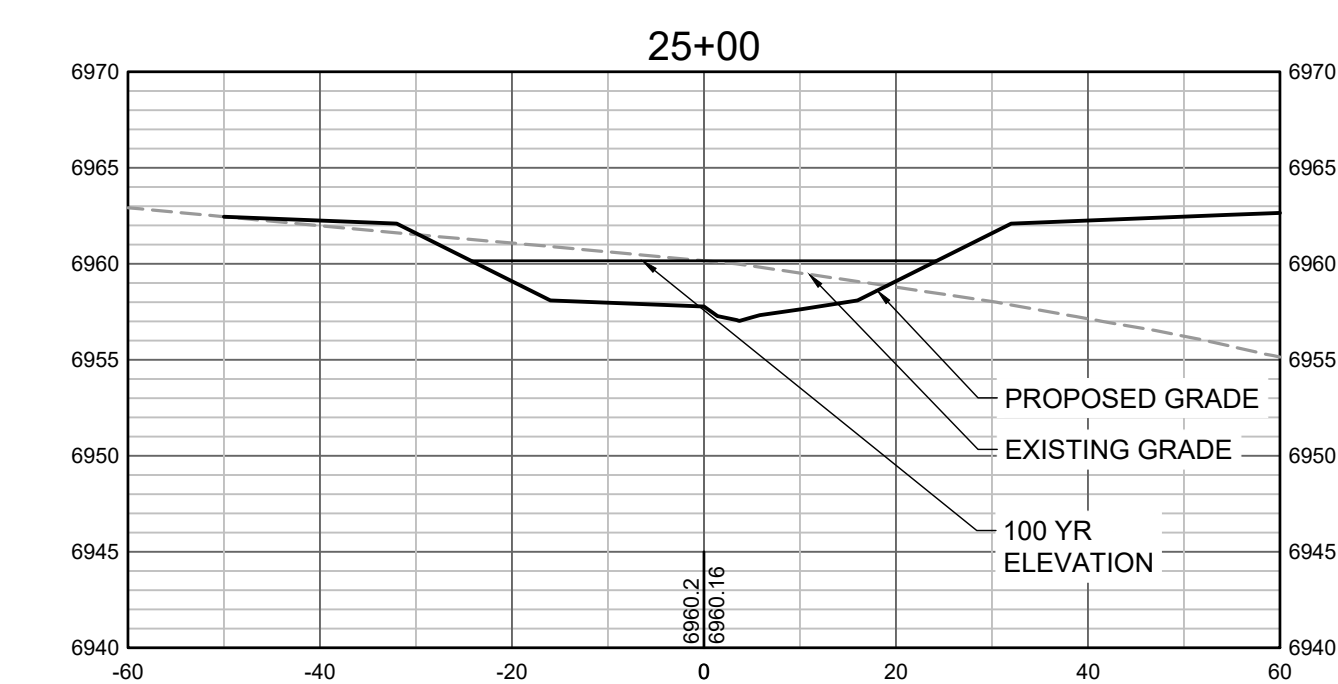
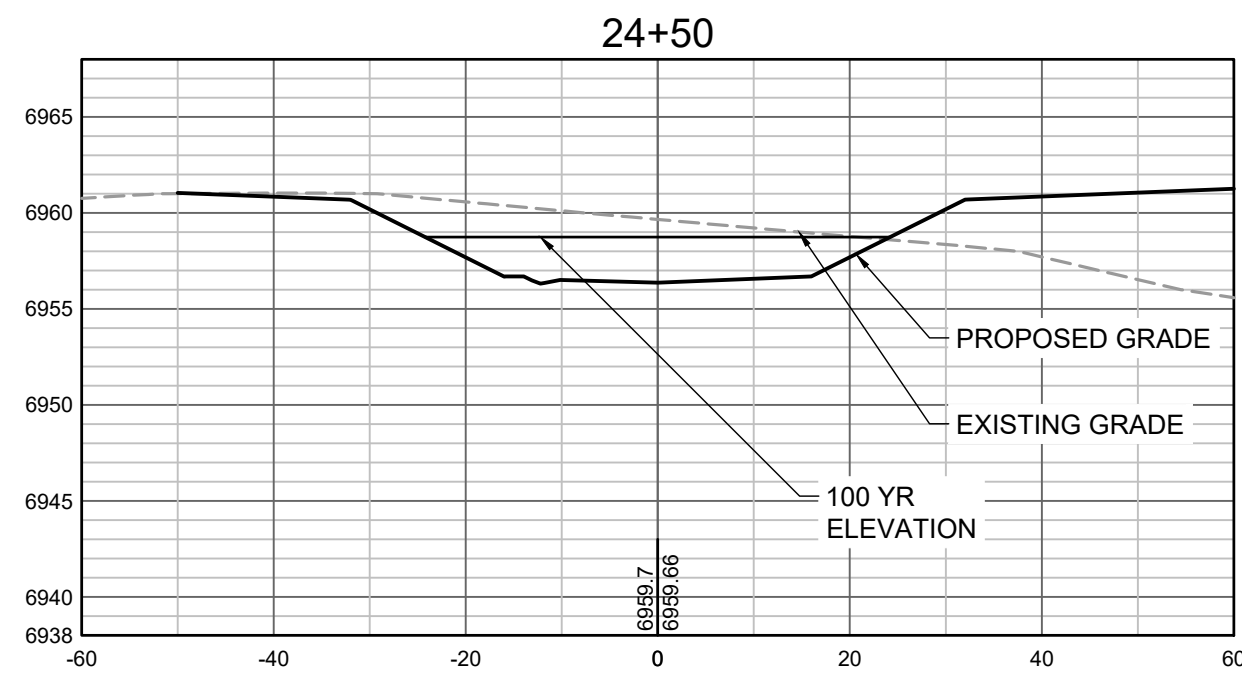
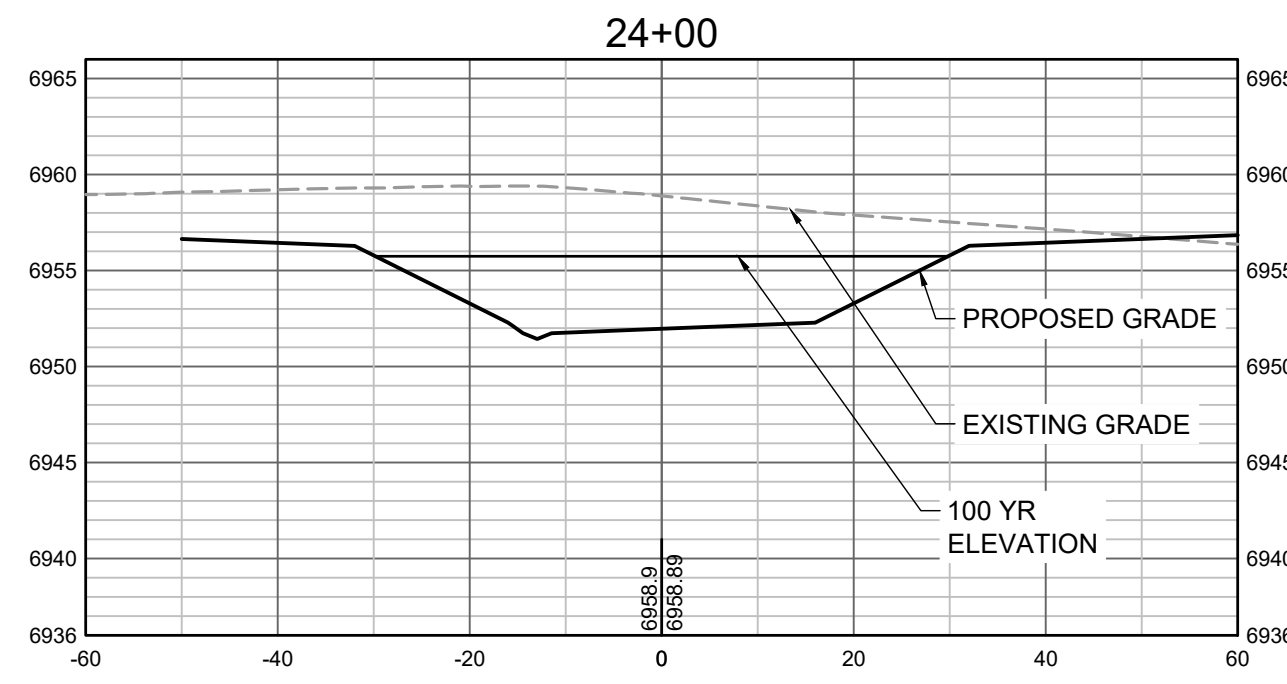
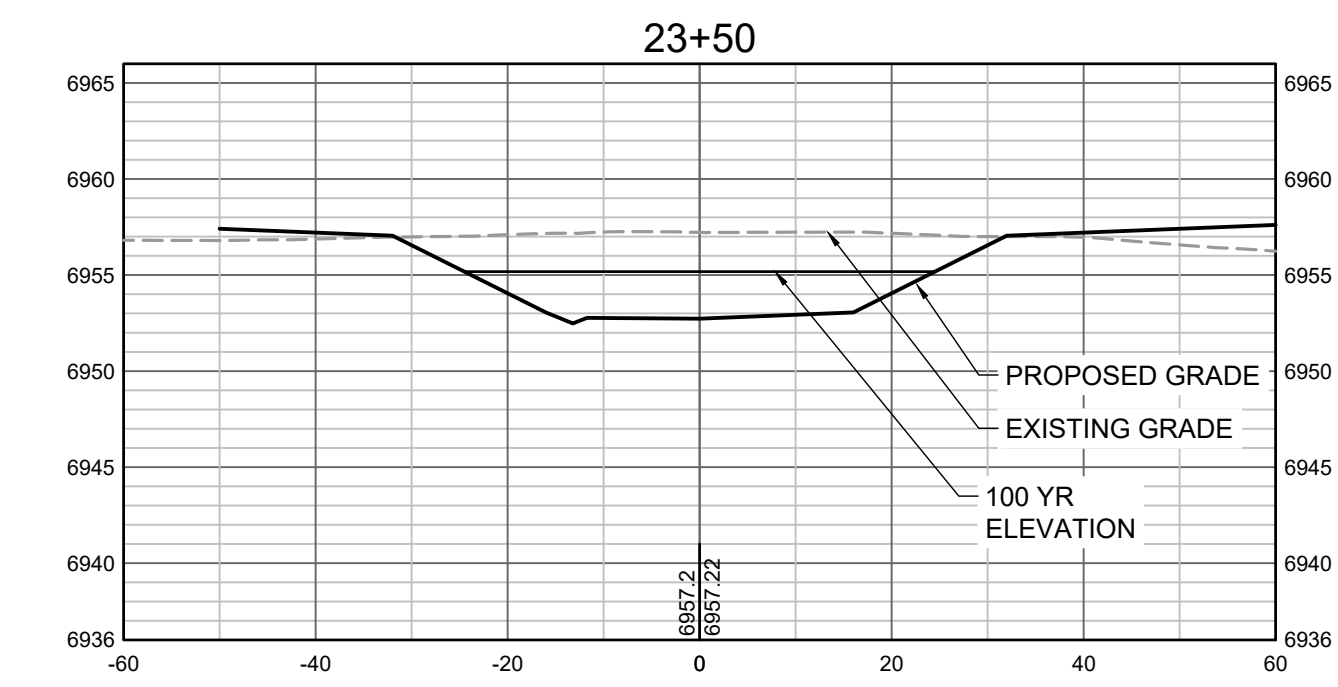
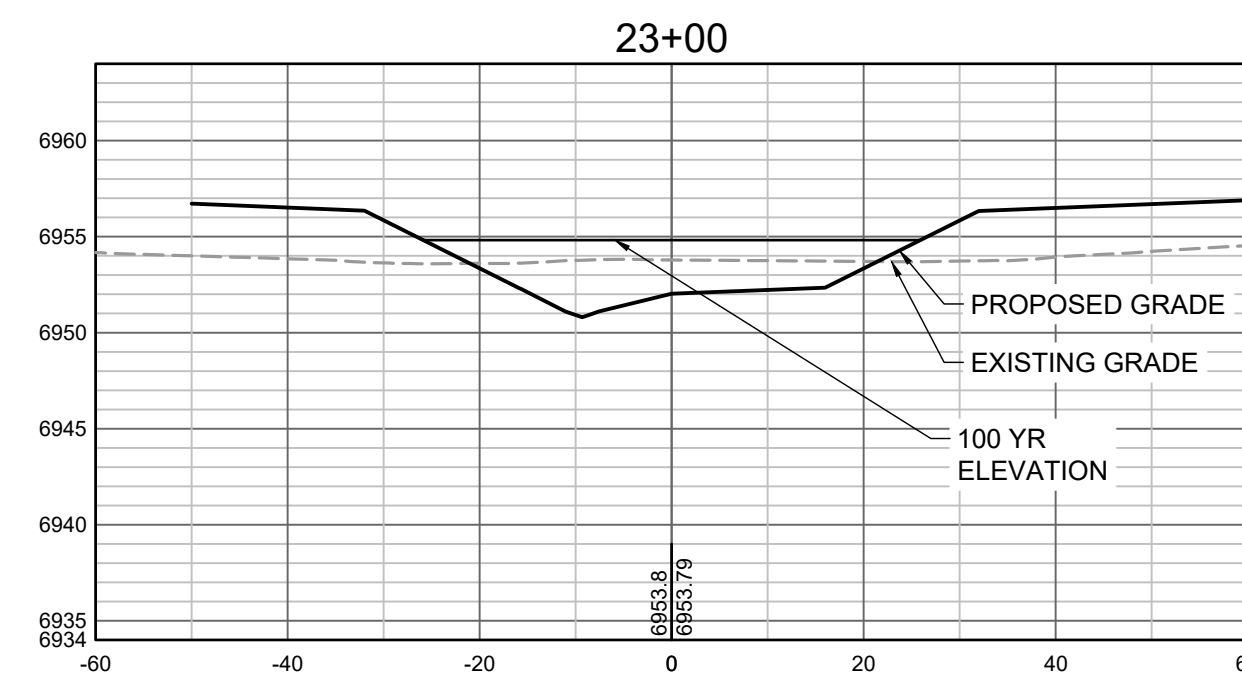
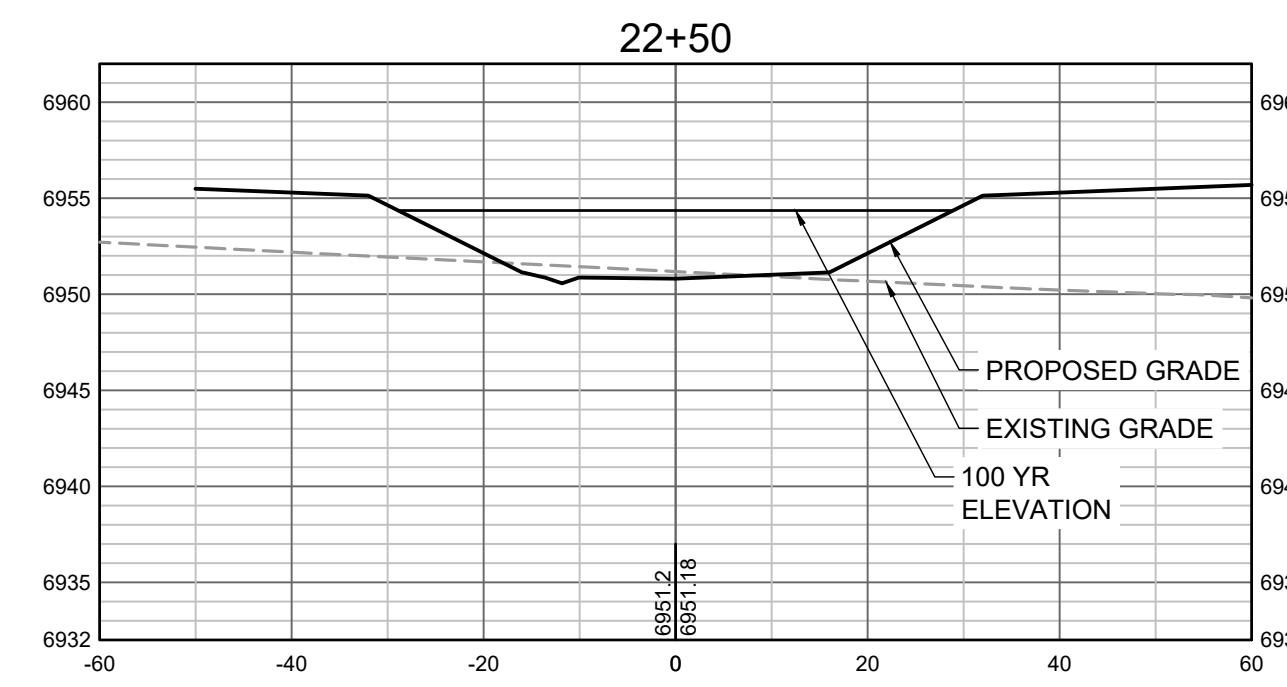
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GRANDVIEW RESERVE (DRAINAGE A & B)
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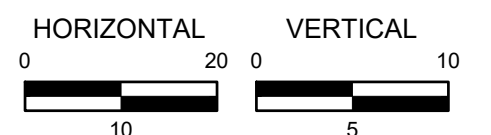
CONSTRUCTION DOCUMENTS
 TRIBUTARY 2 CROSS SECTIONS

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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NO.	DATE	BY	REVISION DESCRIPTION

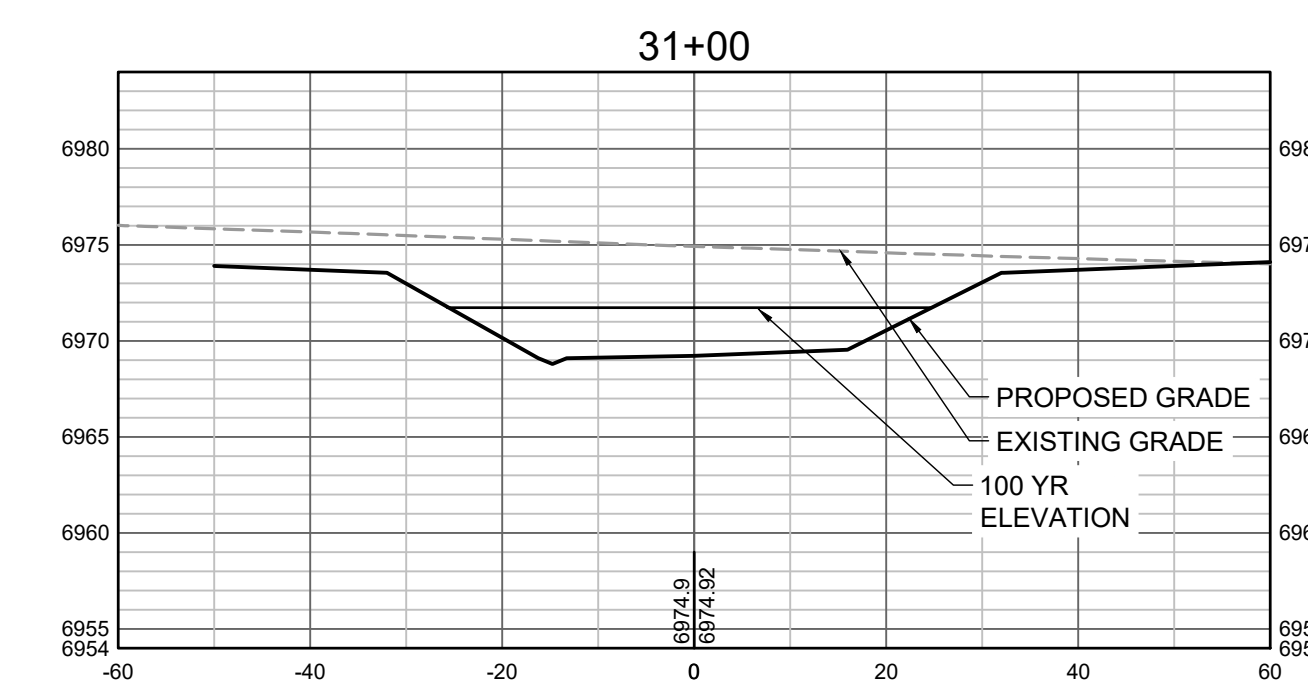
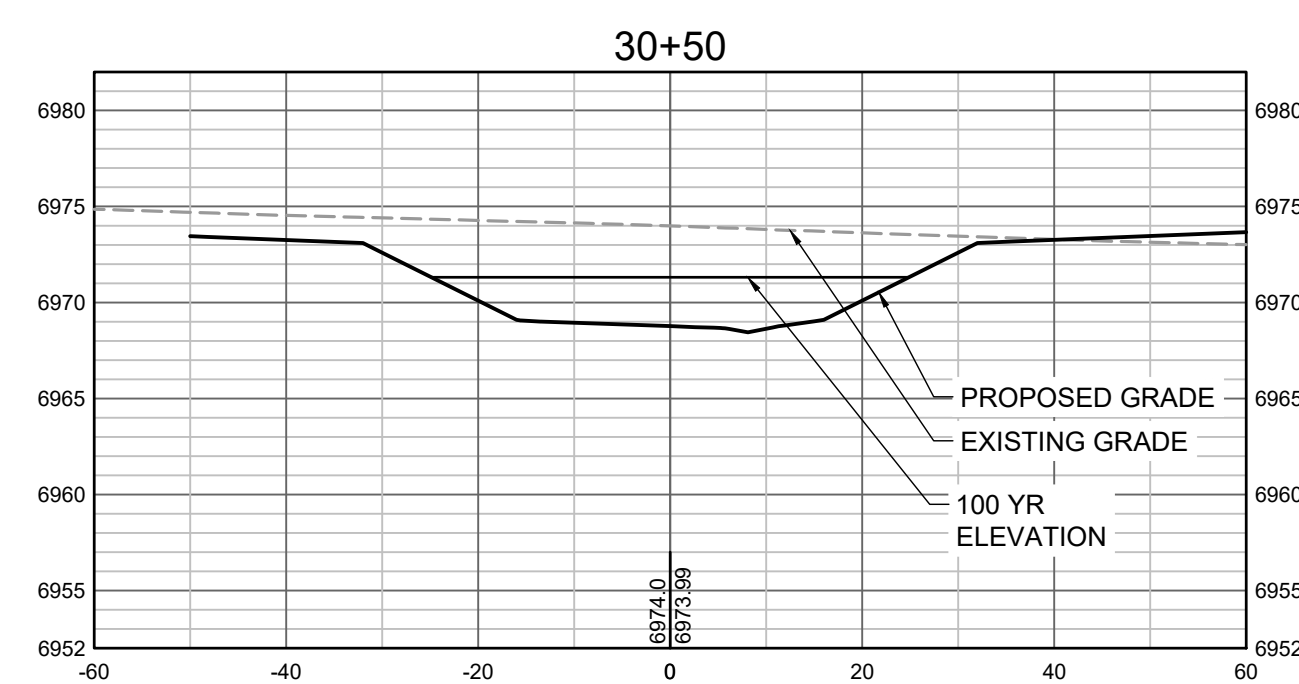
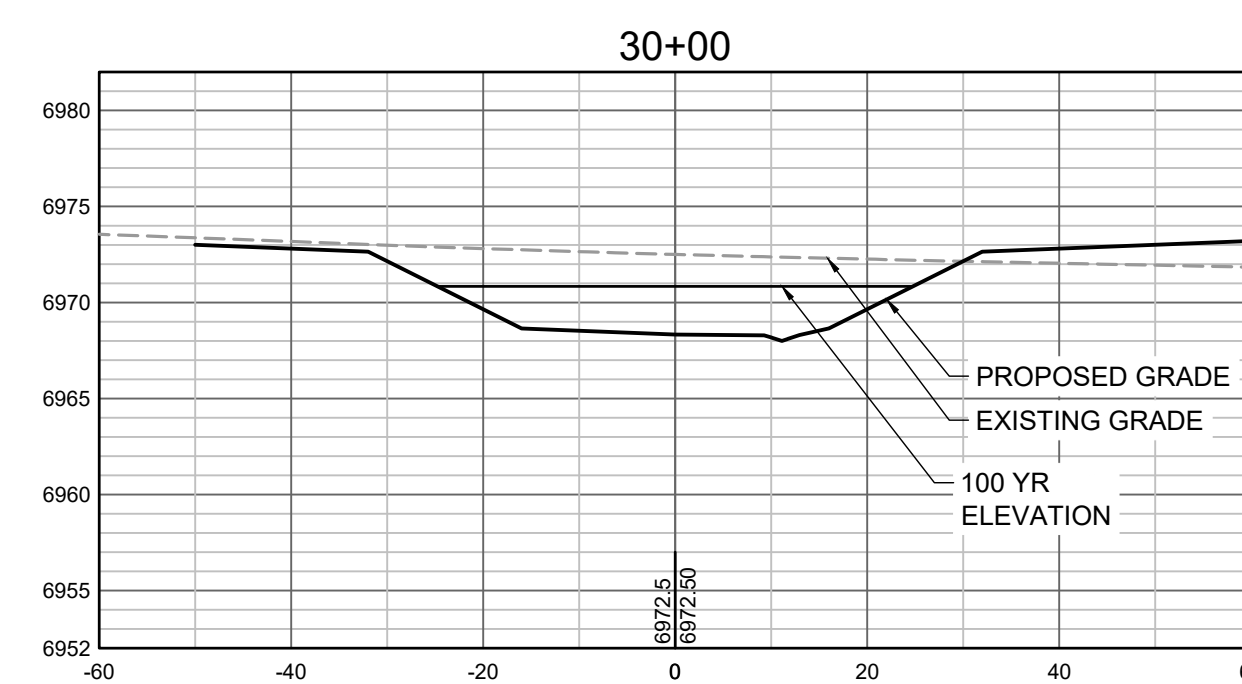
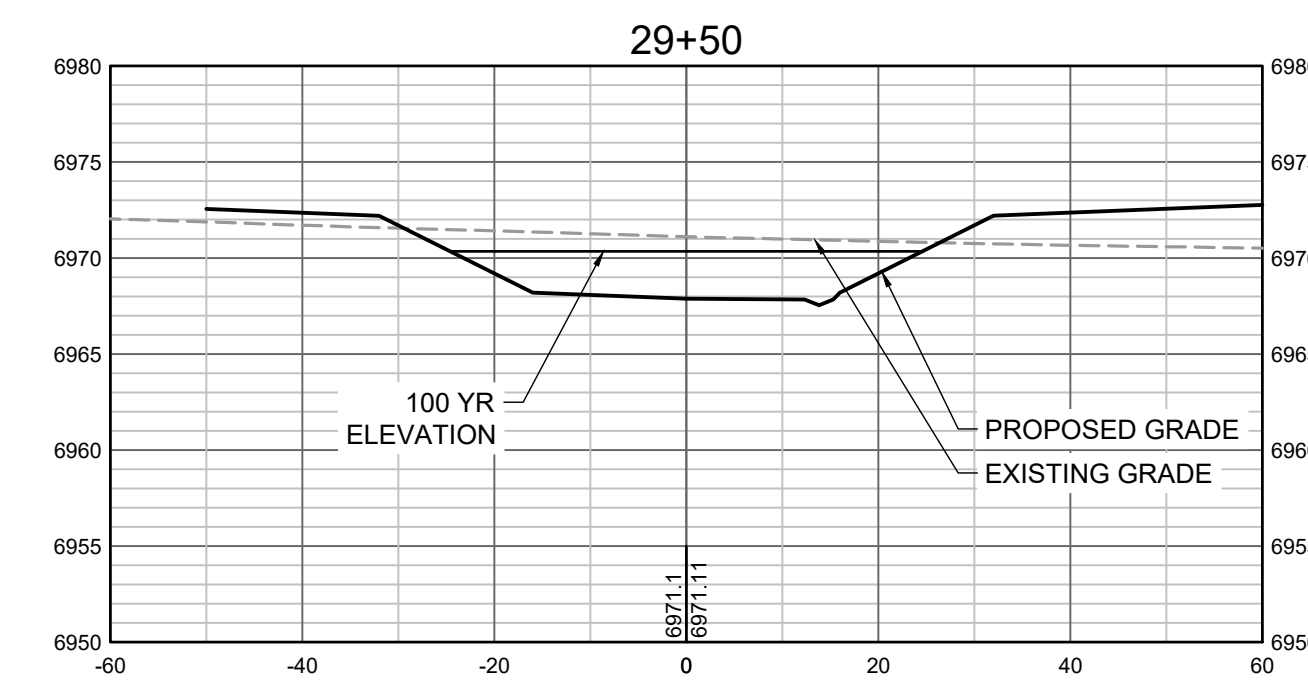
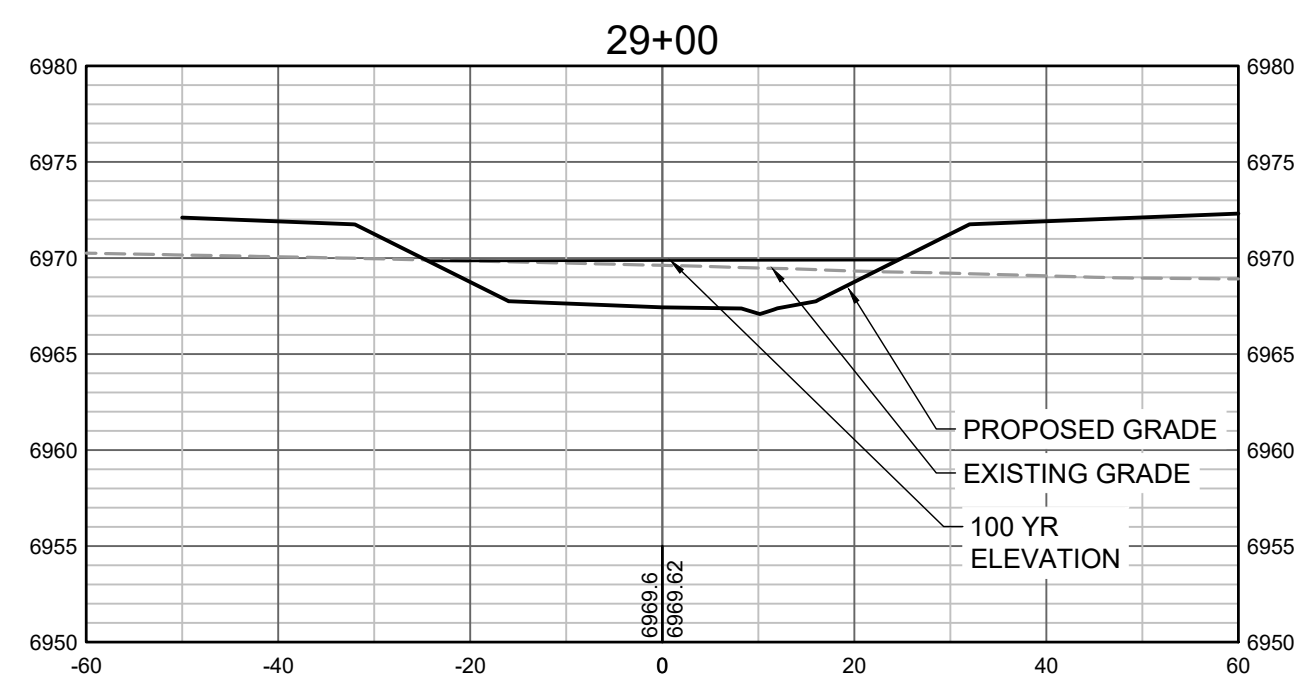
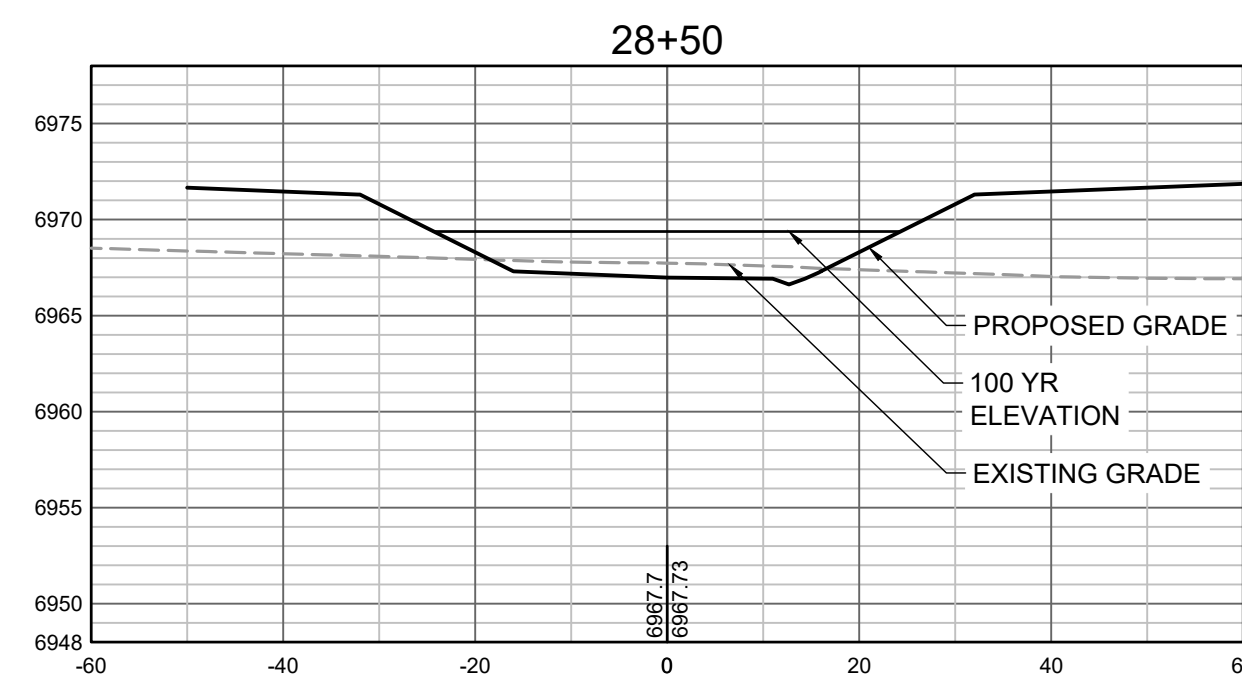
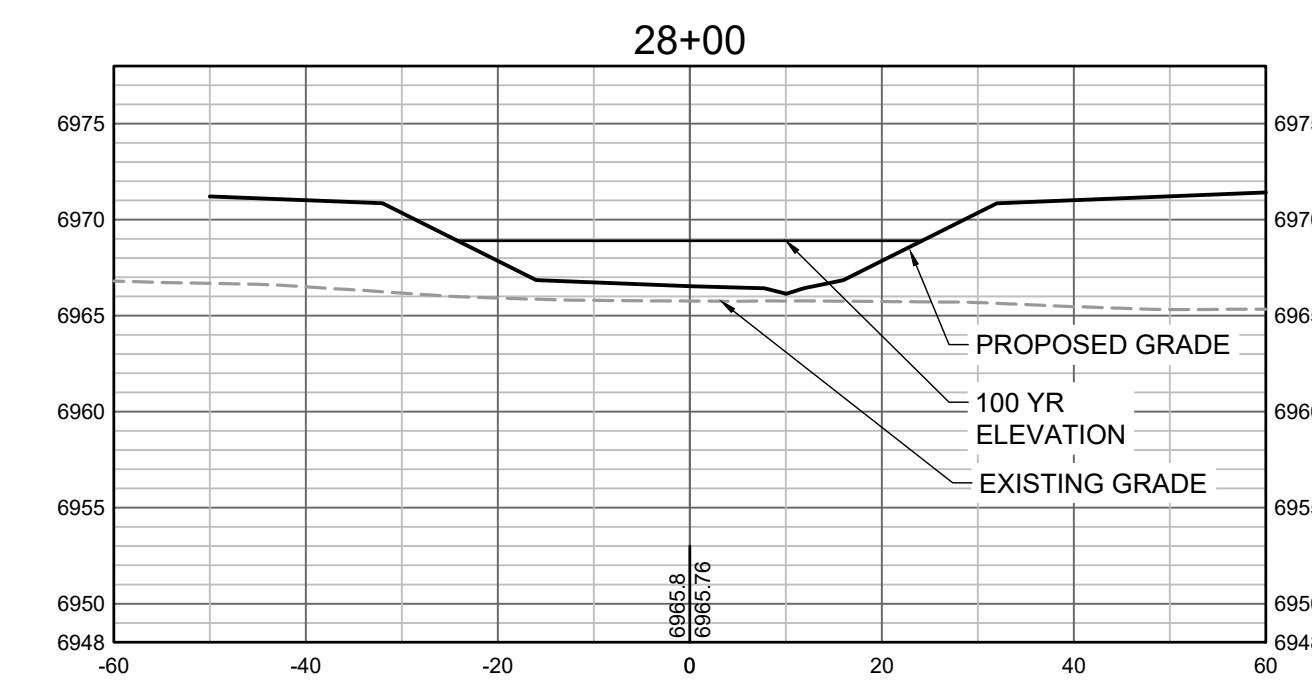
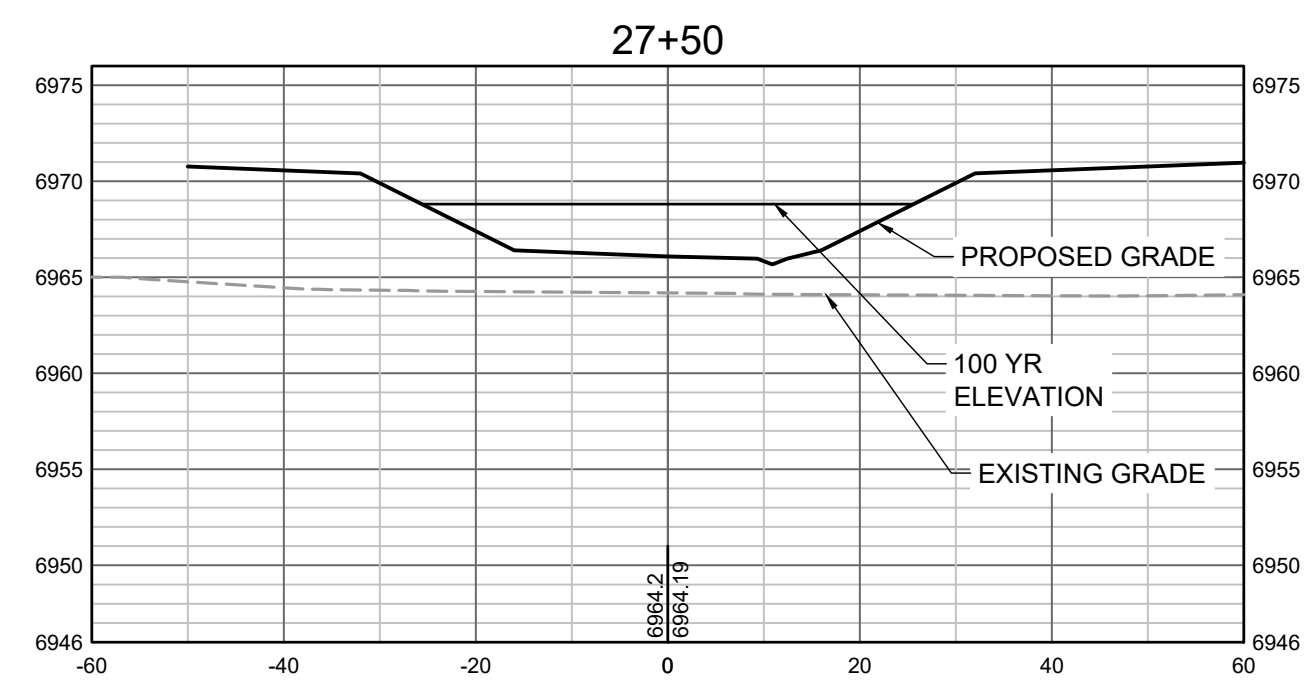
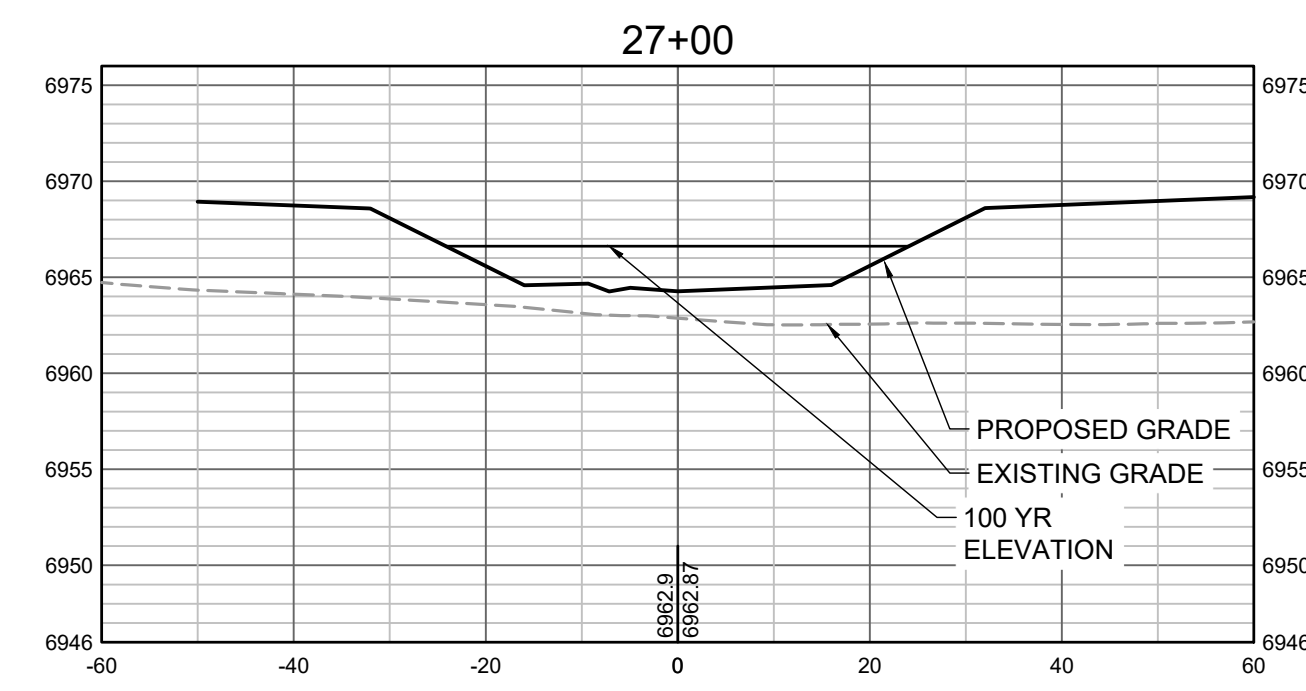


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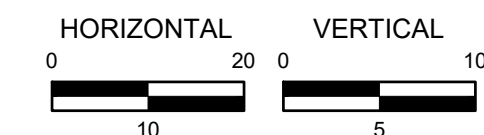
GRANDVIEW RESERVE (DRAINAGE A & B)
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CONSTRUCTION DOCUMENTS
 TRIBUTARY 2 CROSS SECTIONS

SHEET
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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 CAD DATE: 3/27/2023
 CAD FILE: J:\2020\201662.03\CAD\DWGS\C\CROSS SECTIONS

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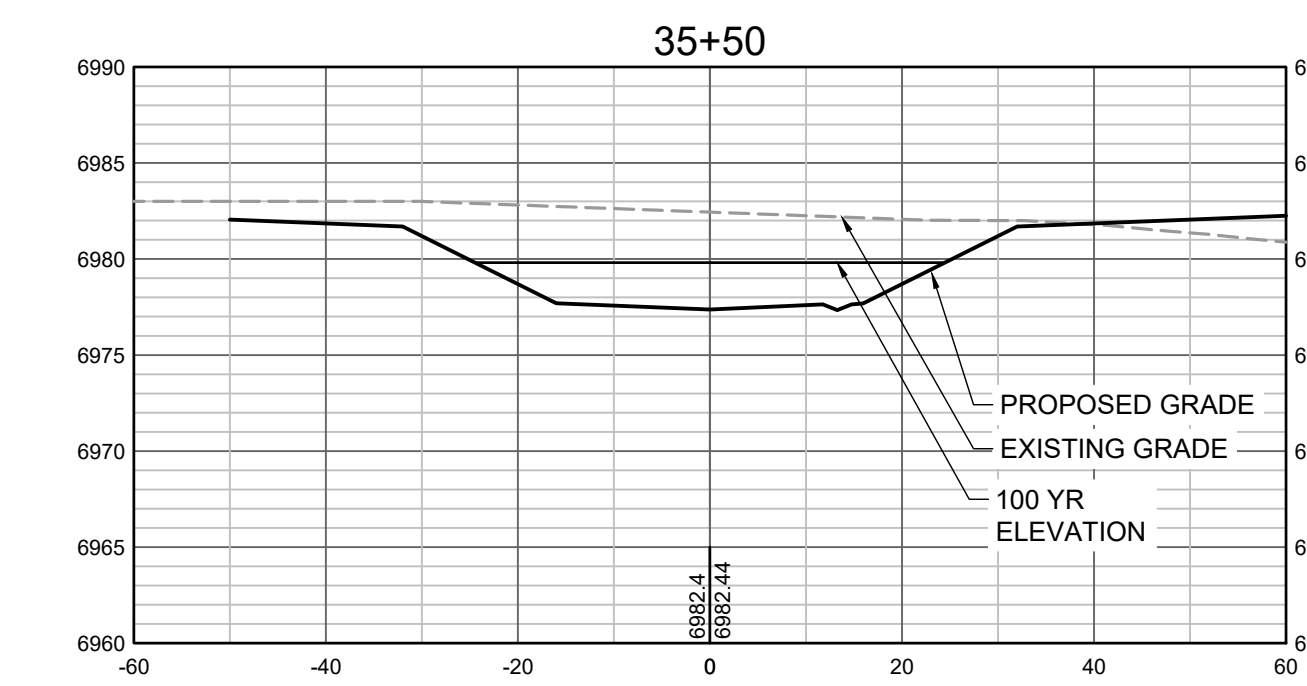
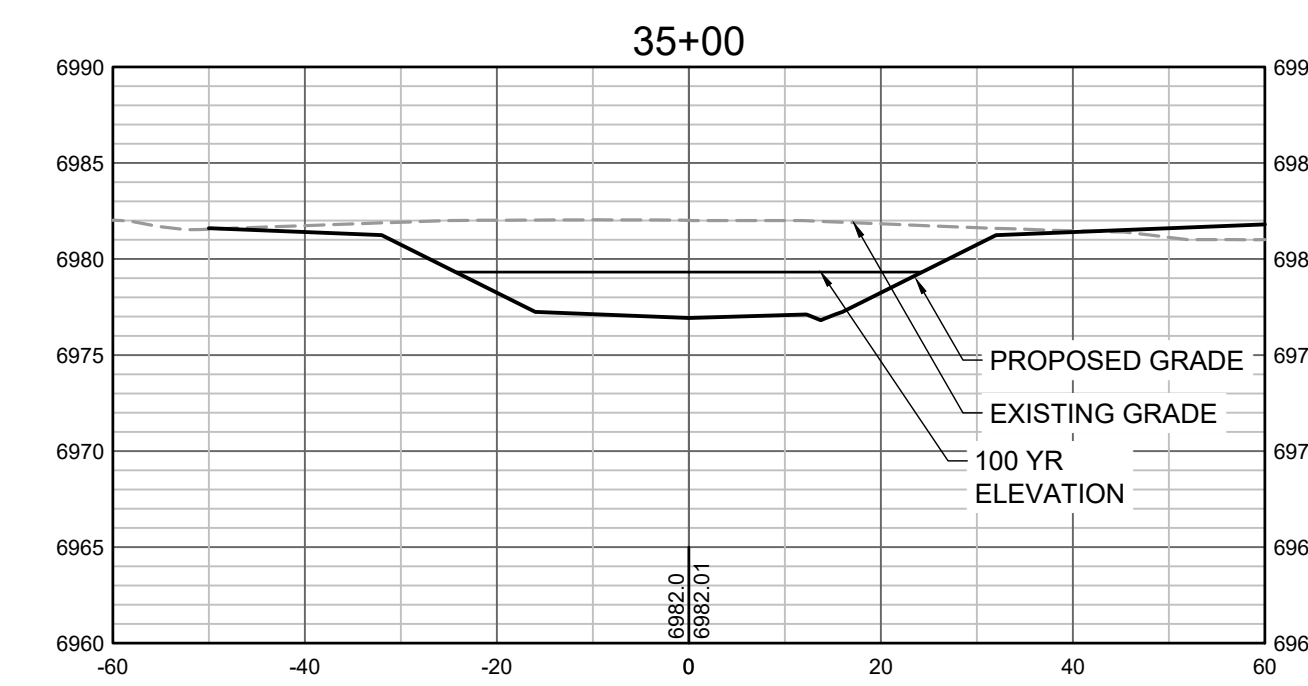
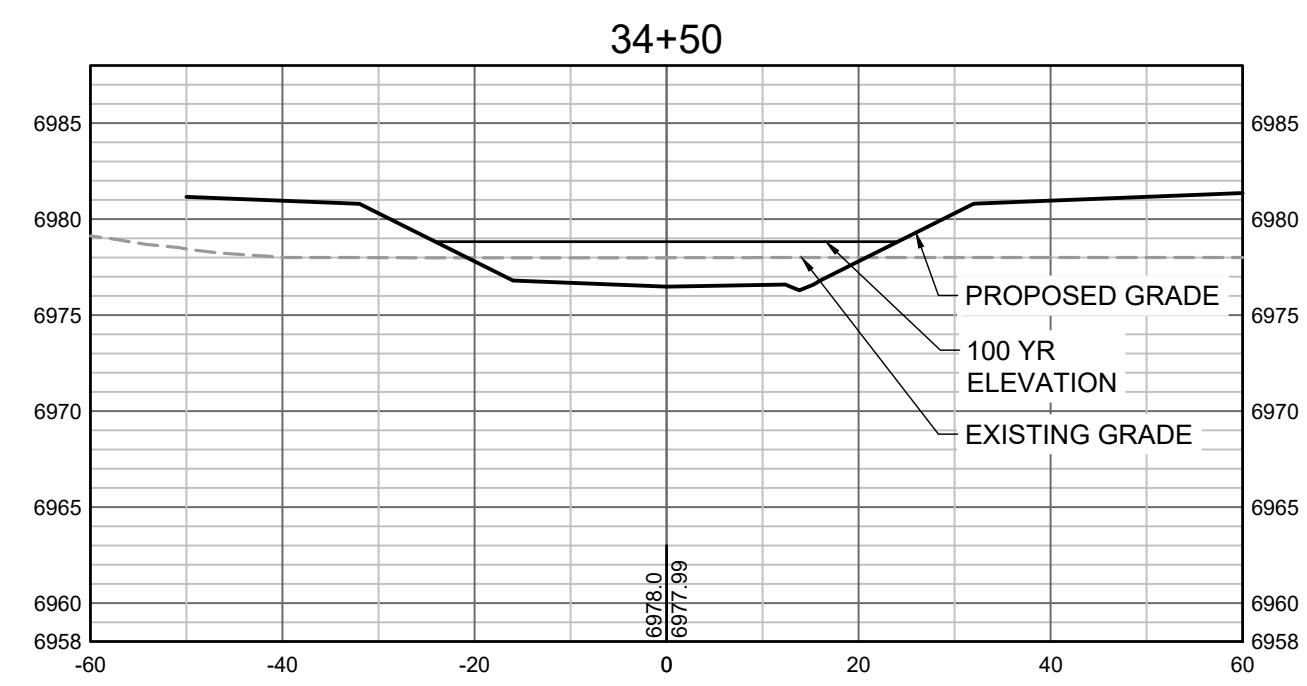
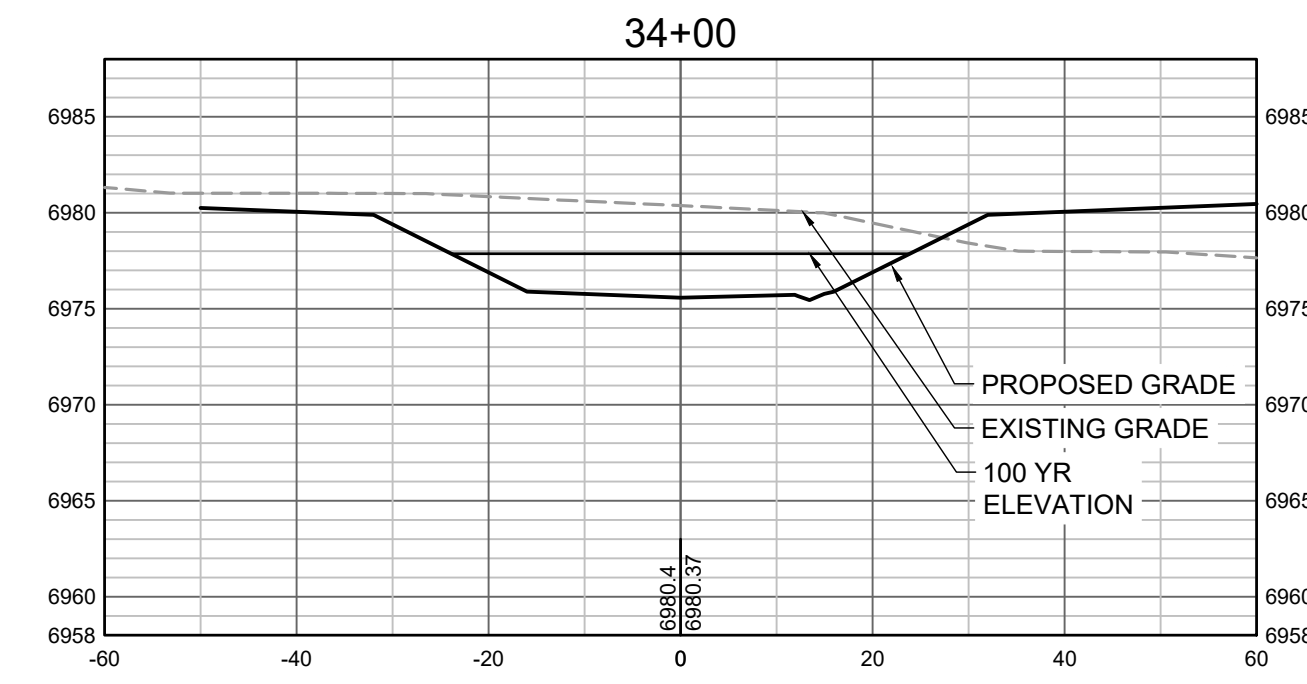
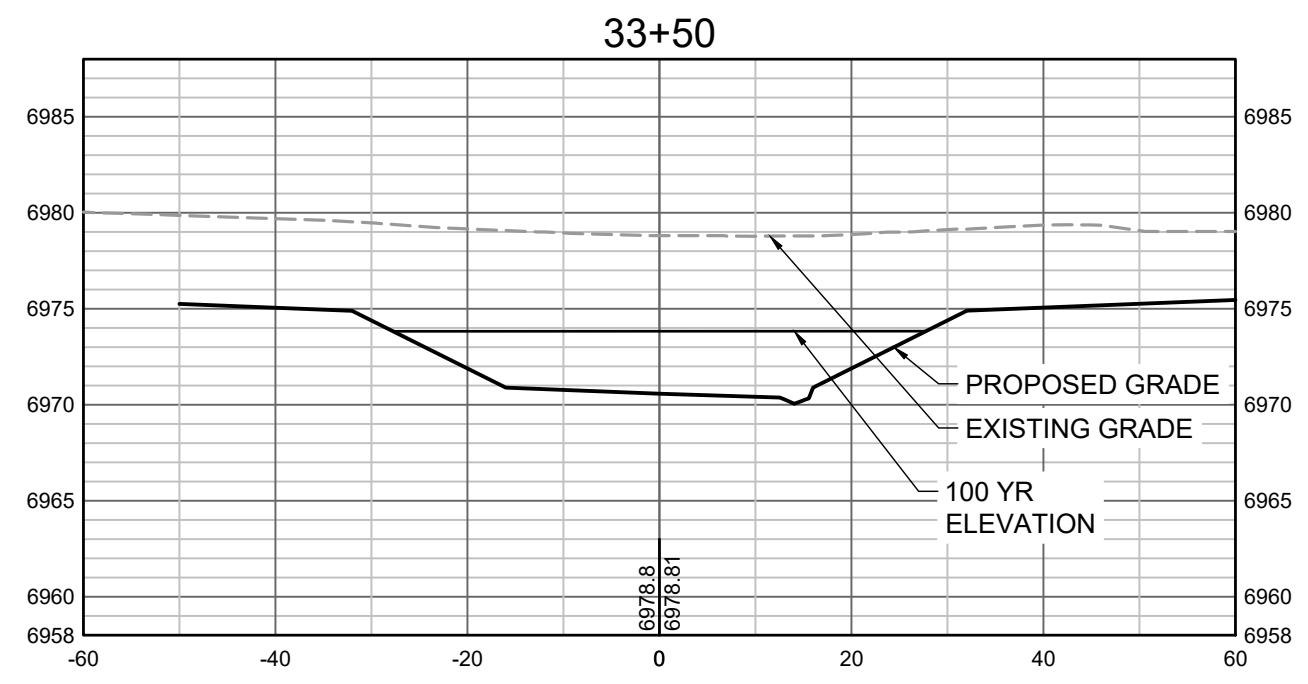
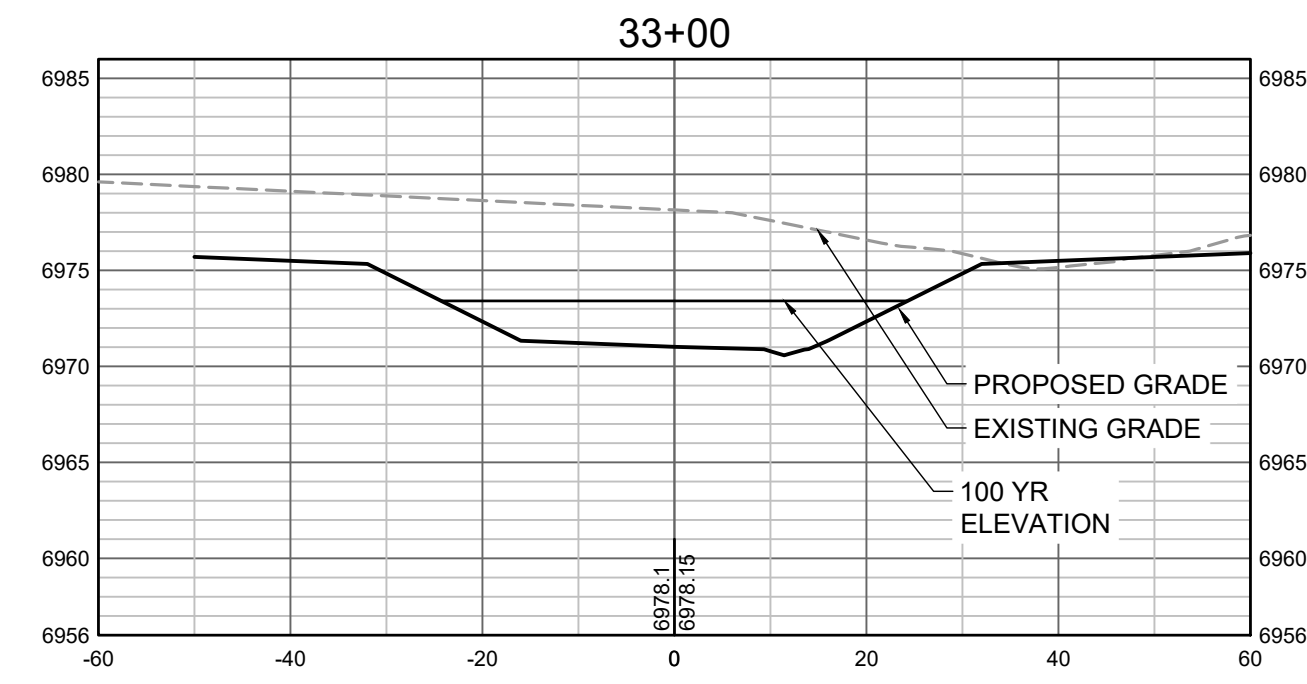
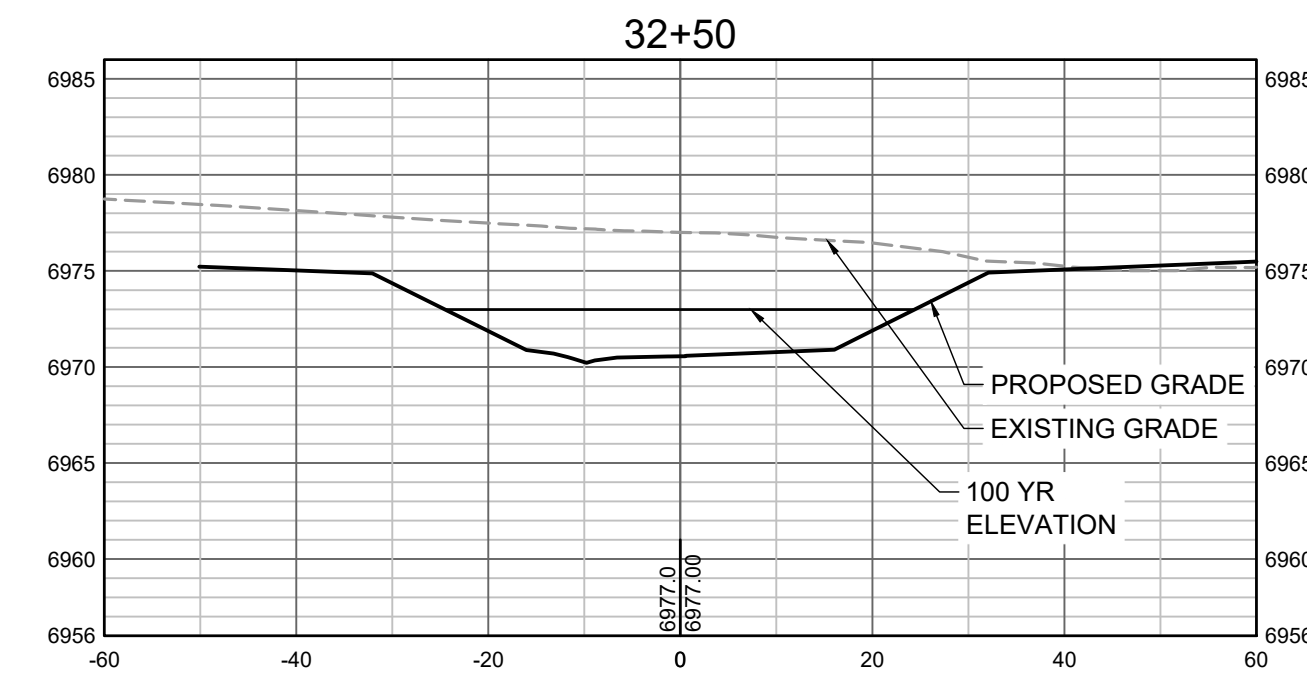
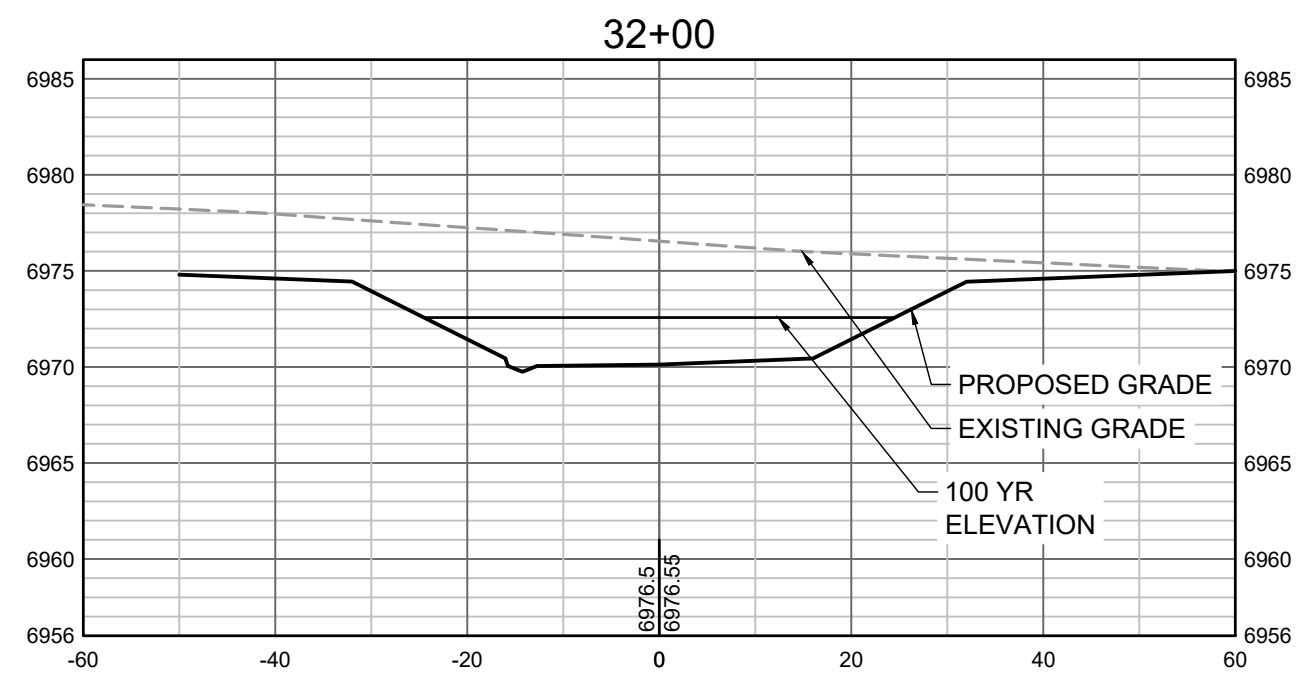
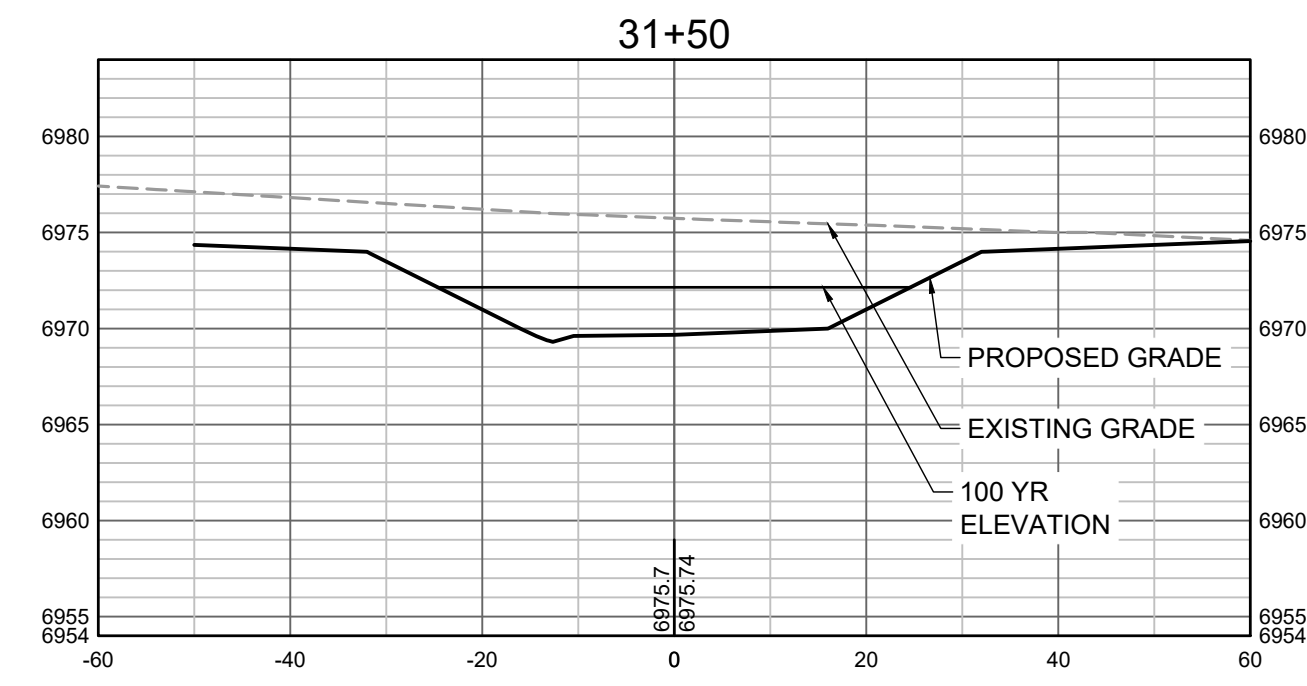
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GRANDVIEW RESERVE (DRAINAGE A & B)
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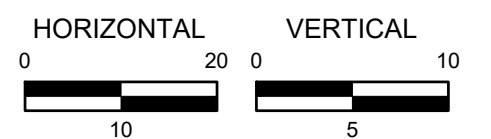
CONSTRUCTION DOCUMENTS
 TRIBUTARY 2 CROSS SECTIONS

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

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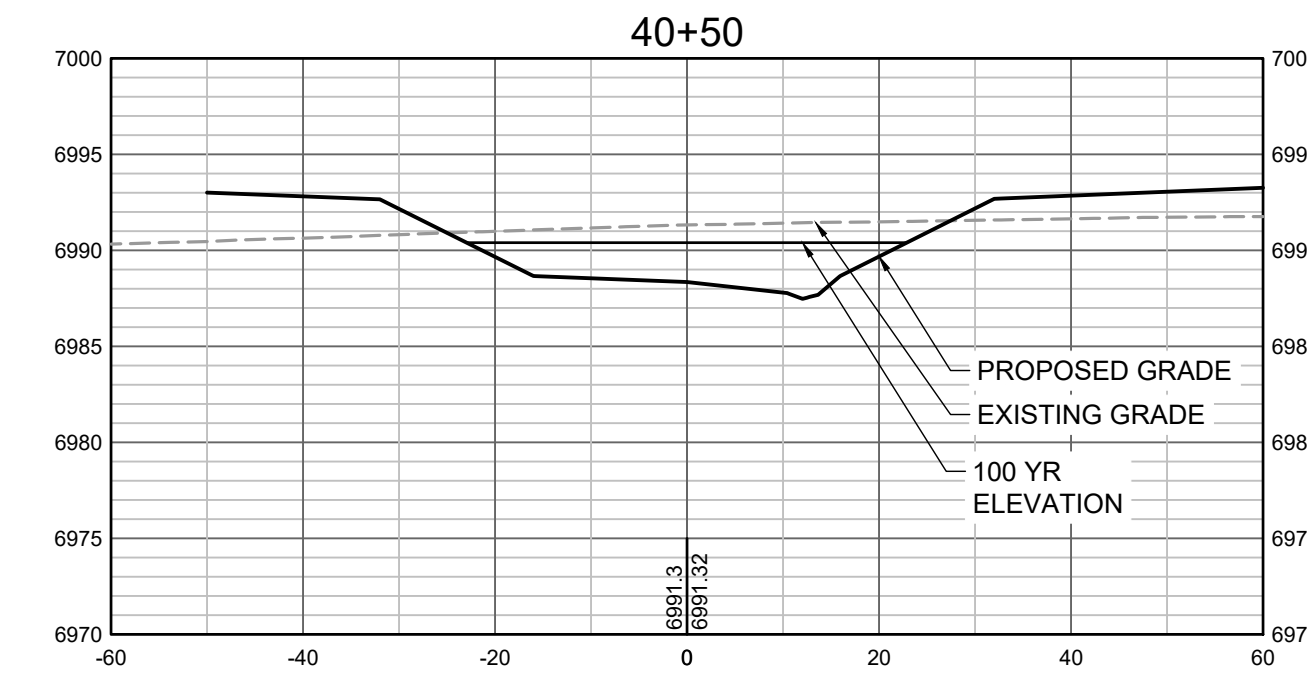
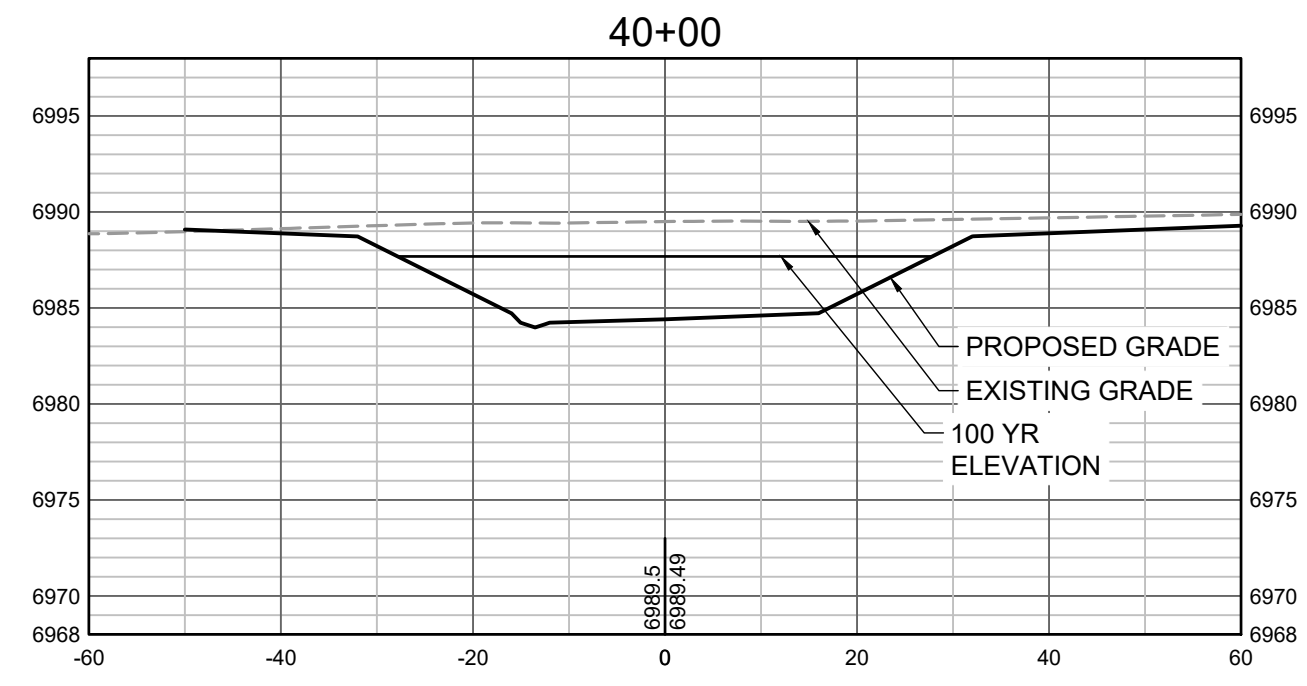
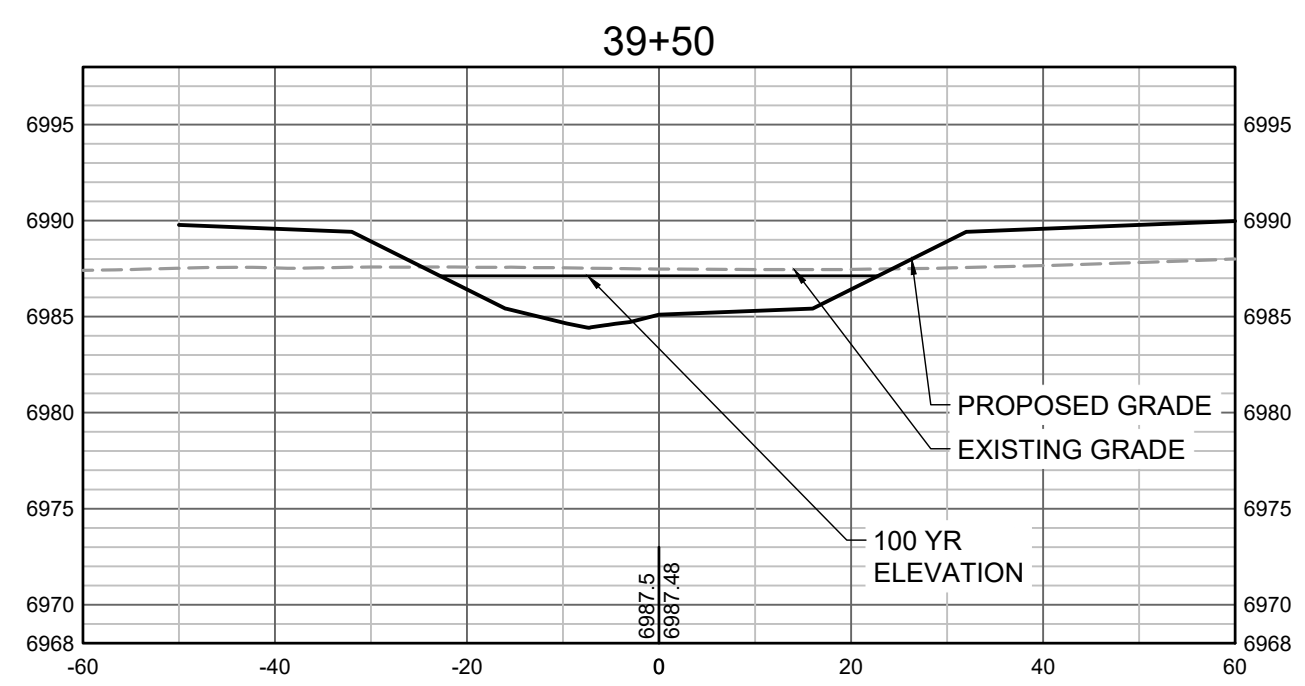
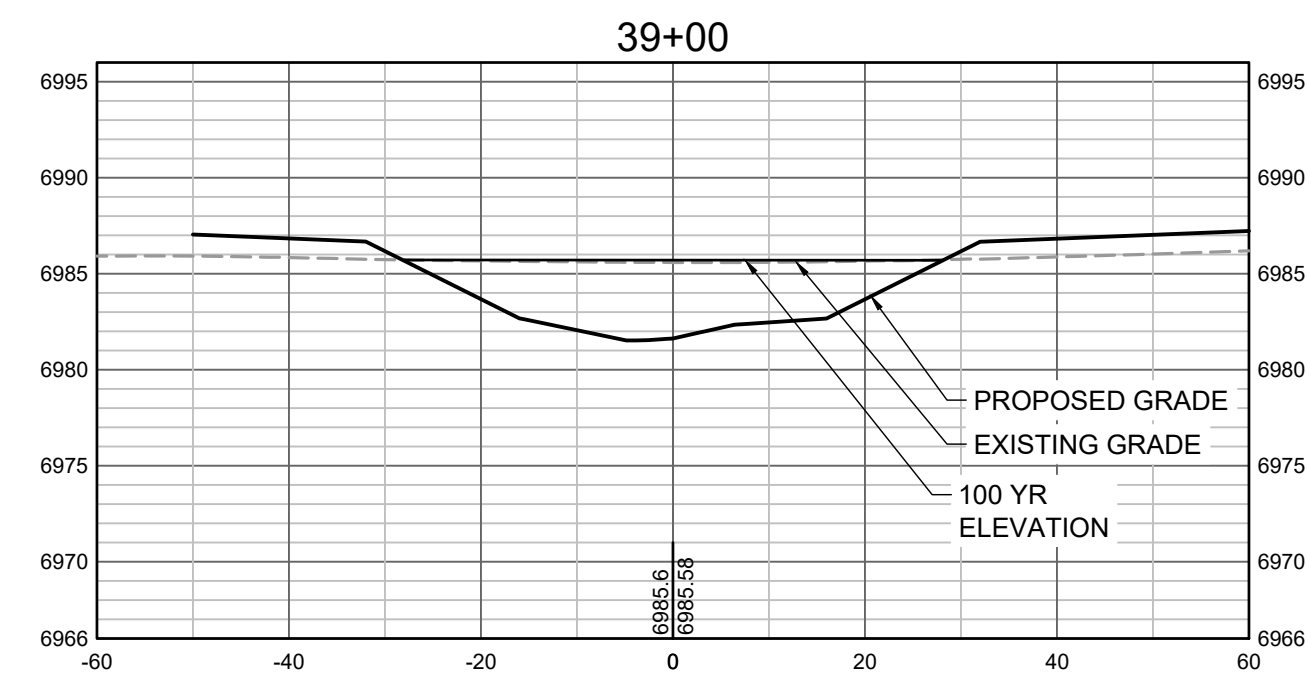
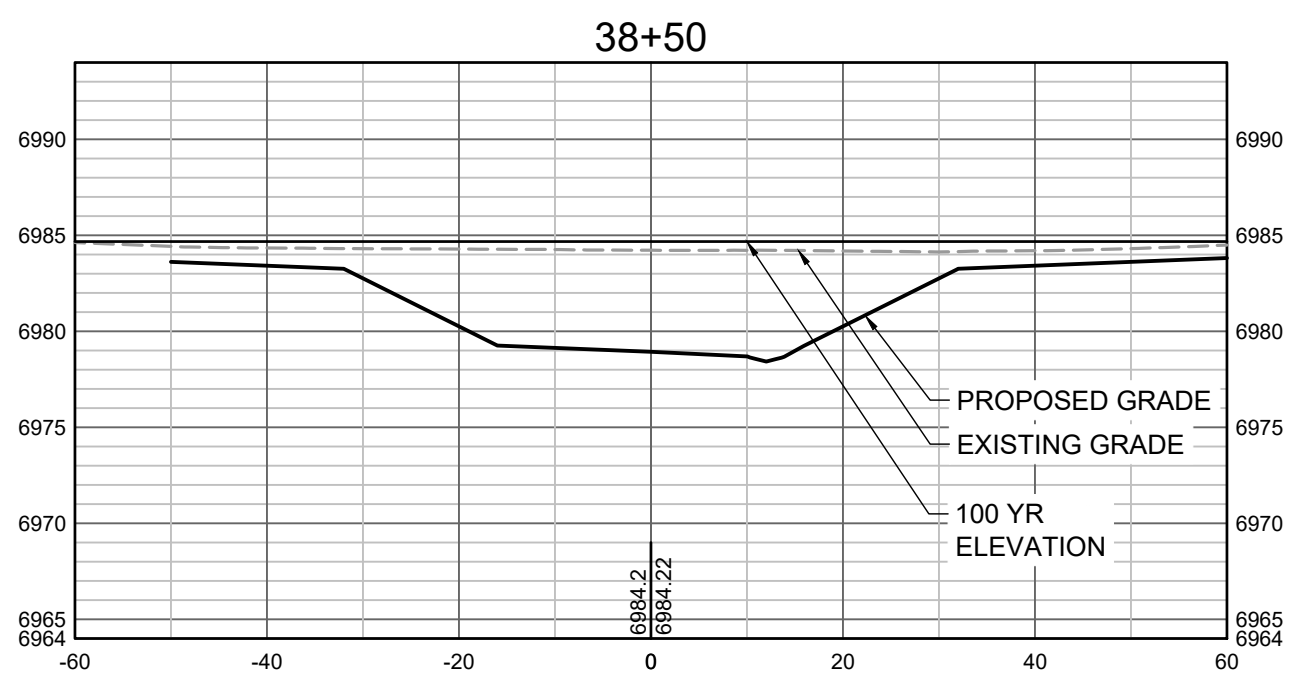
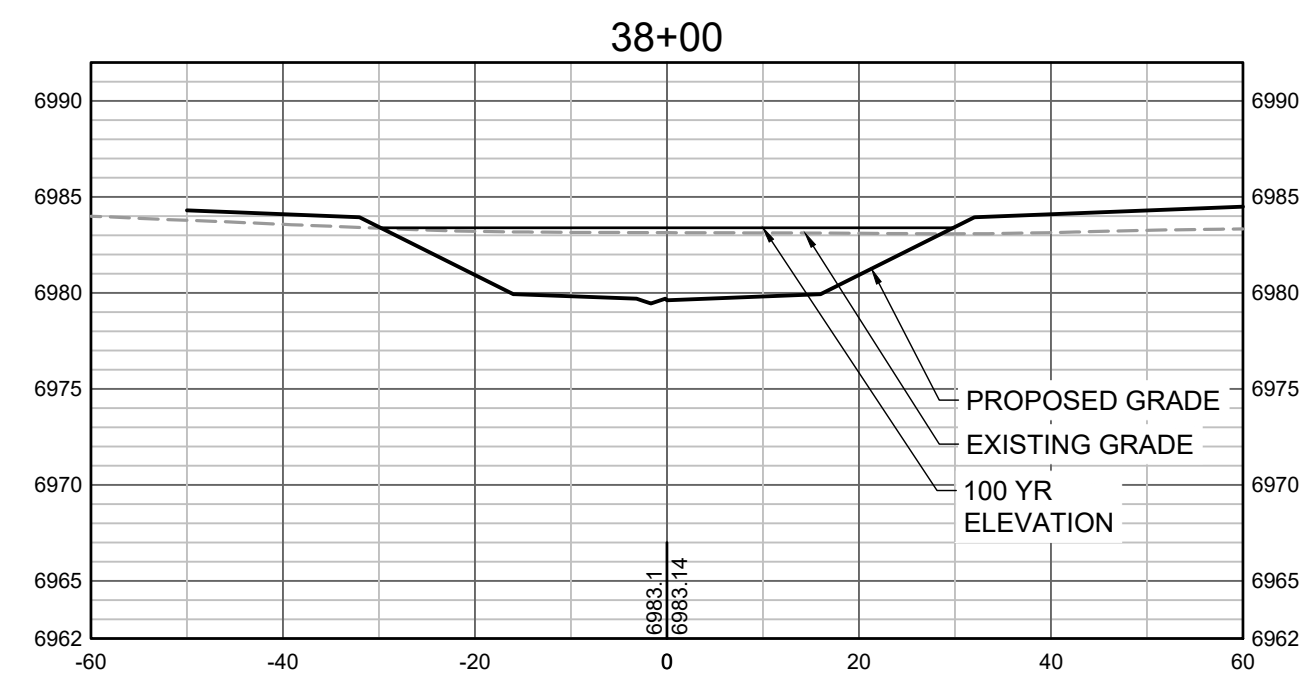
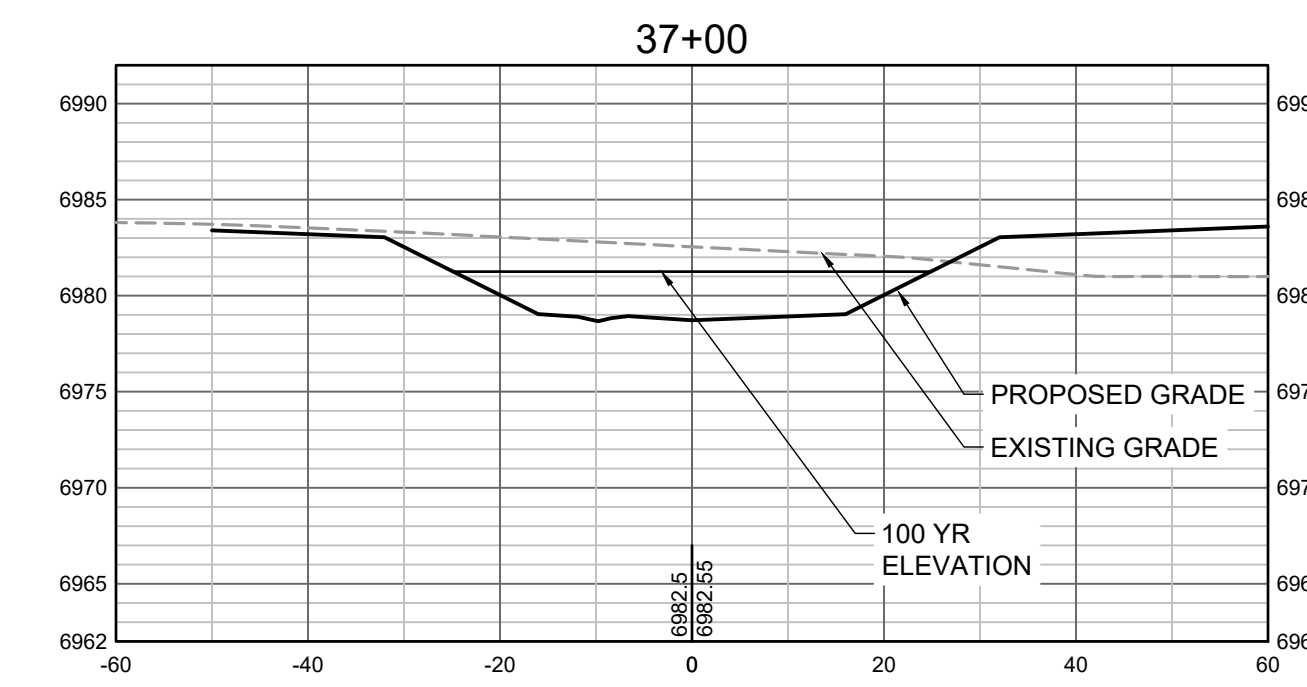
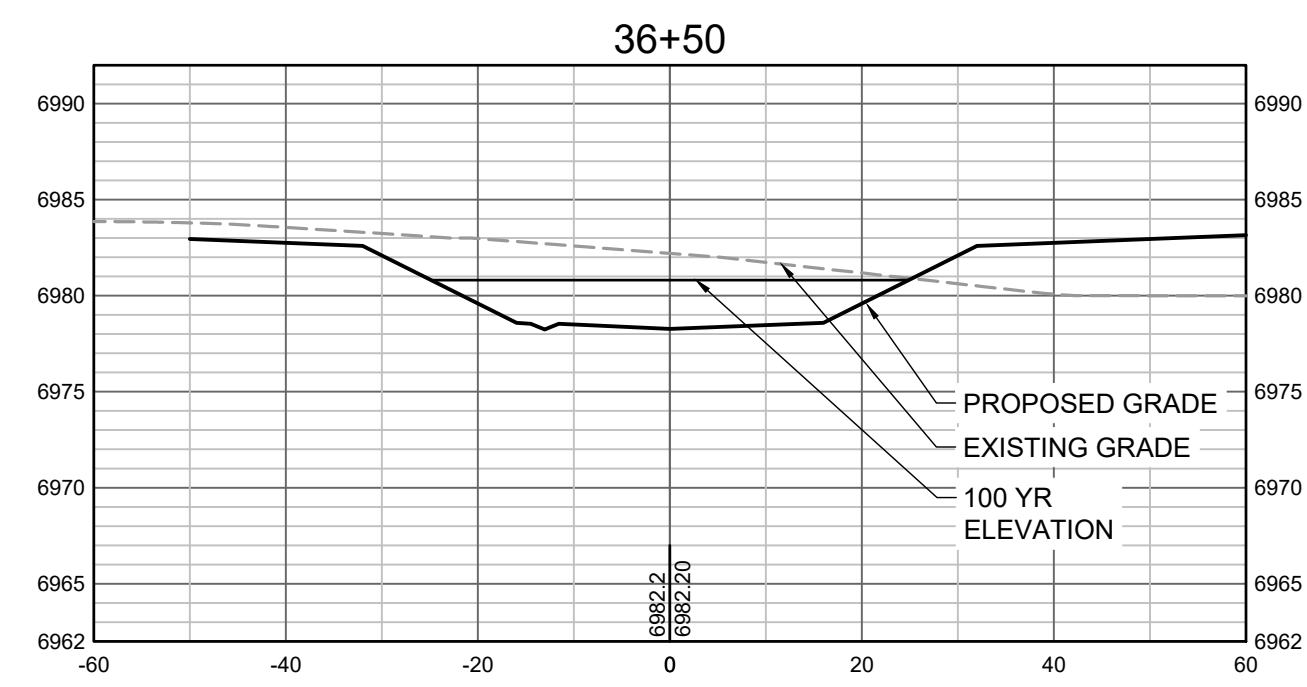
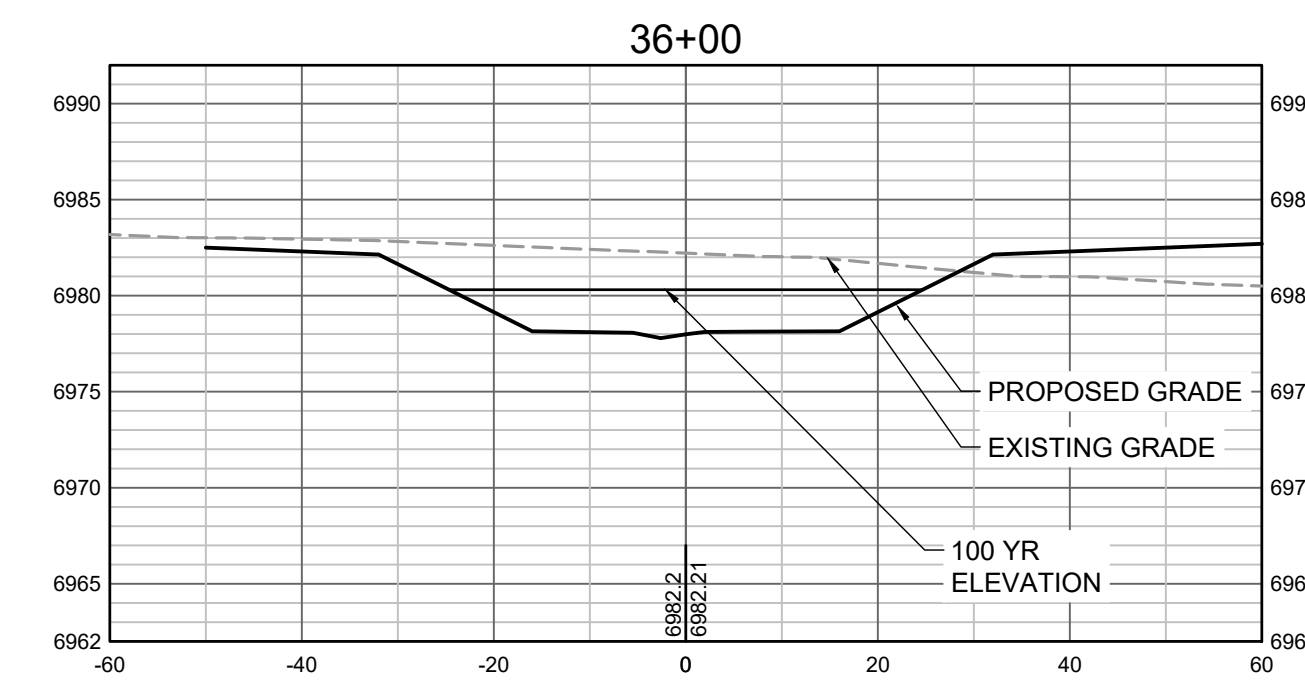
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GRANDVIEW RESERVE (DRAINAGE A & B)
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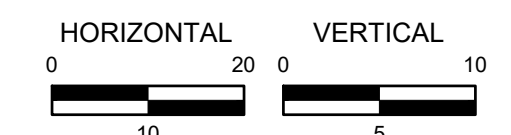
CONSTRUCTION DOCUMENTS
 TRIBUTARY 2 CROSS SECTIONS

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

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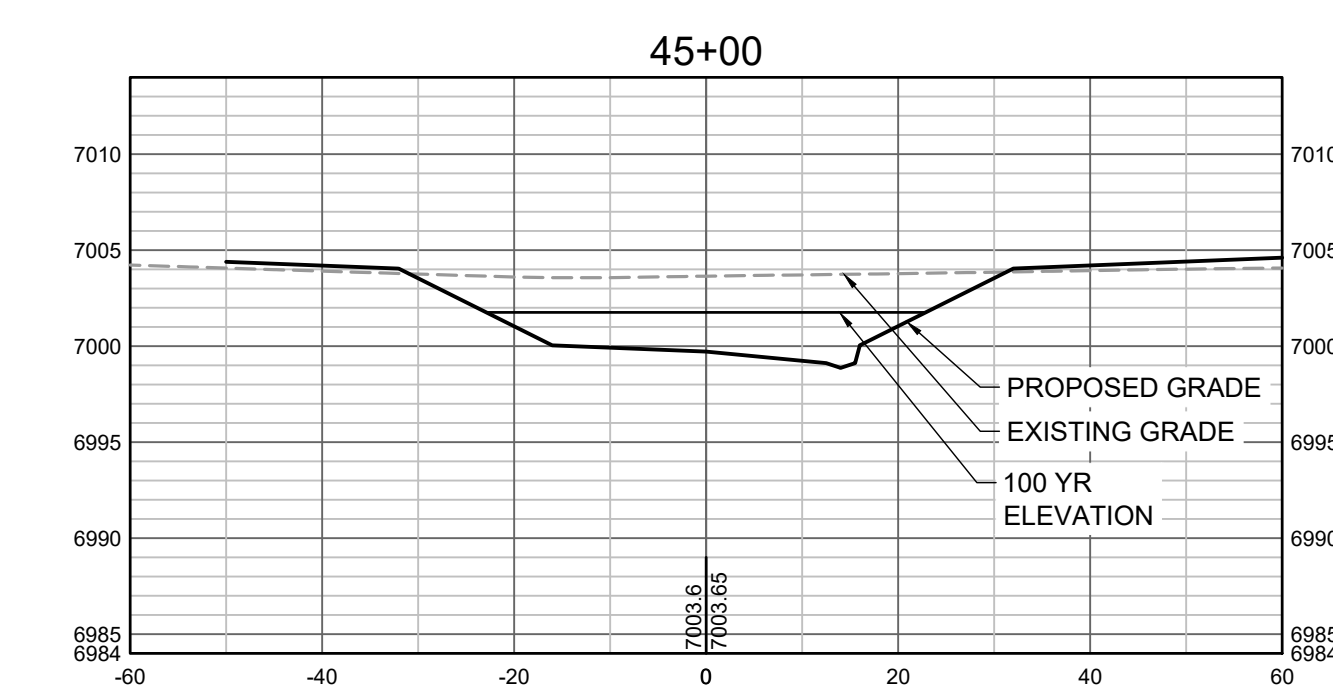
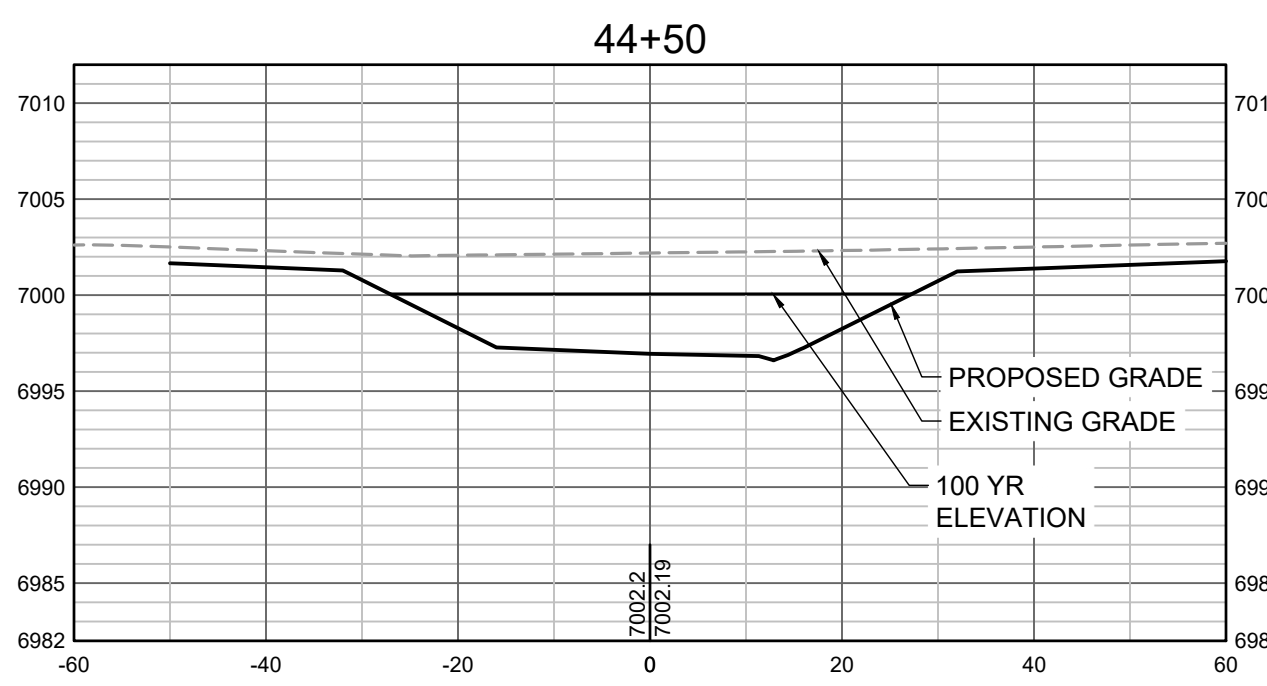
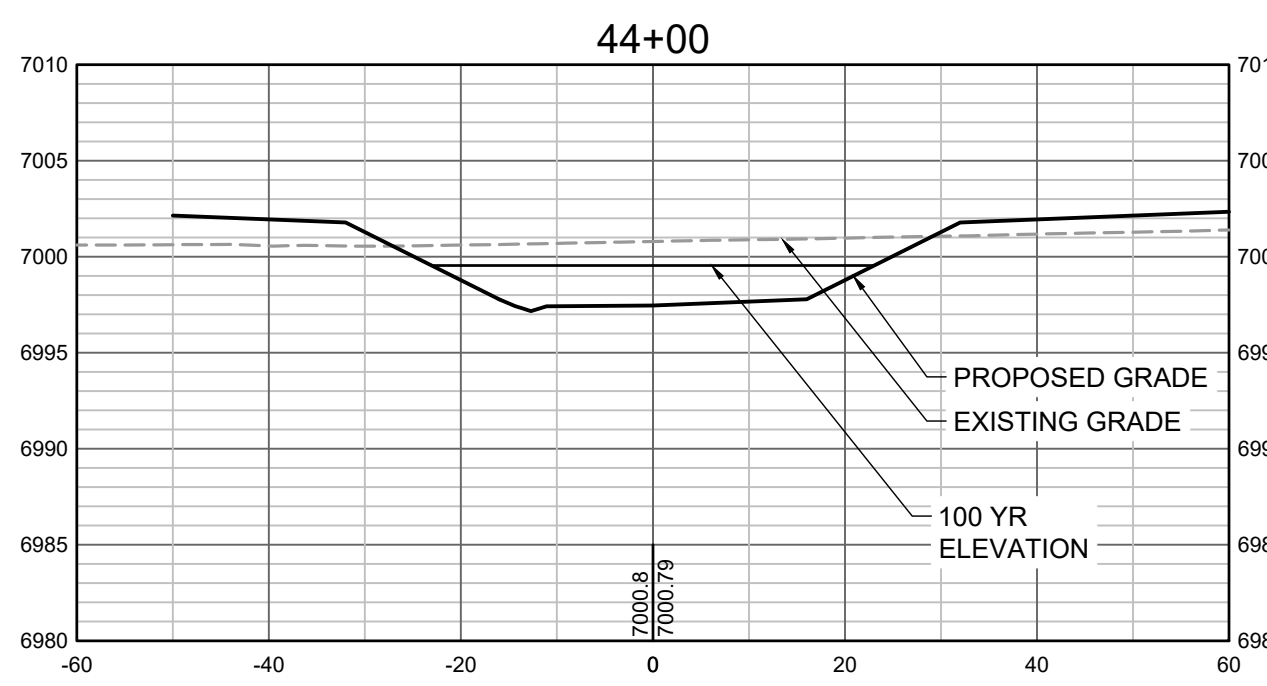
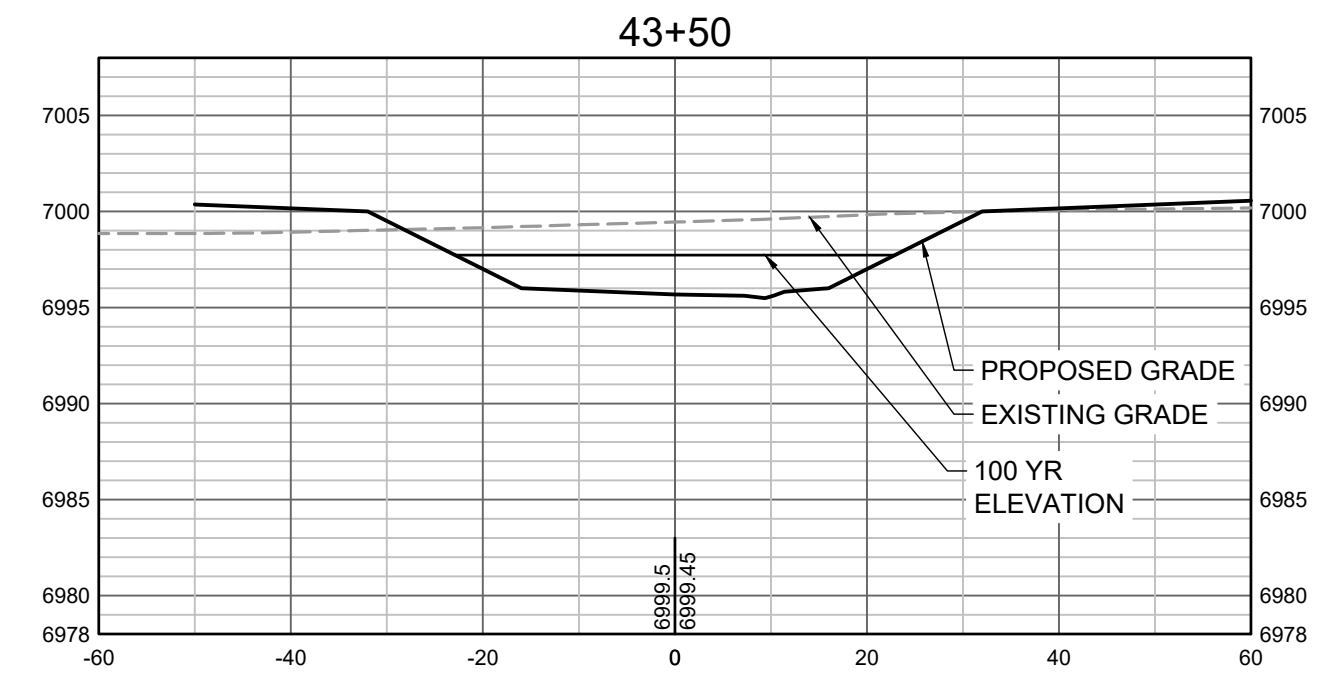
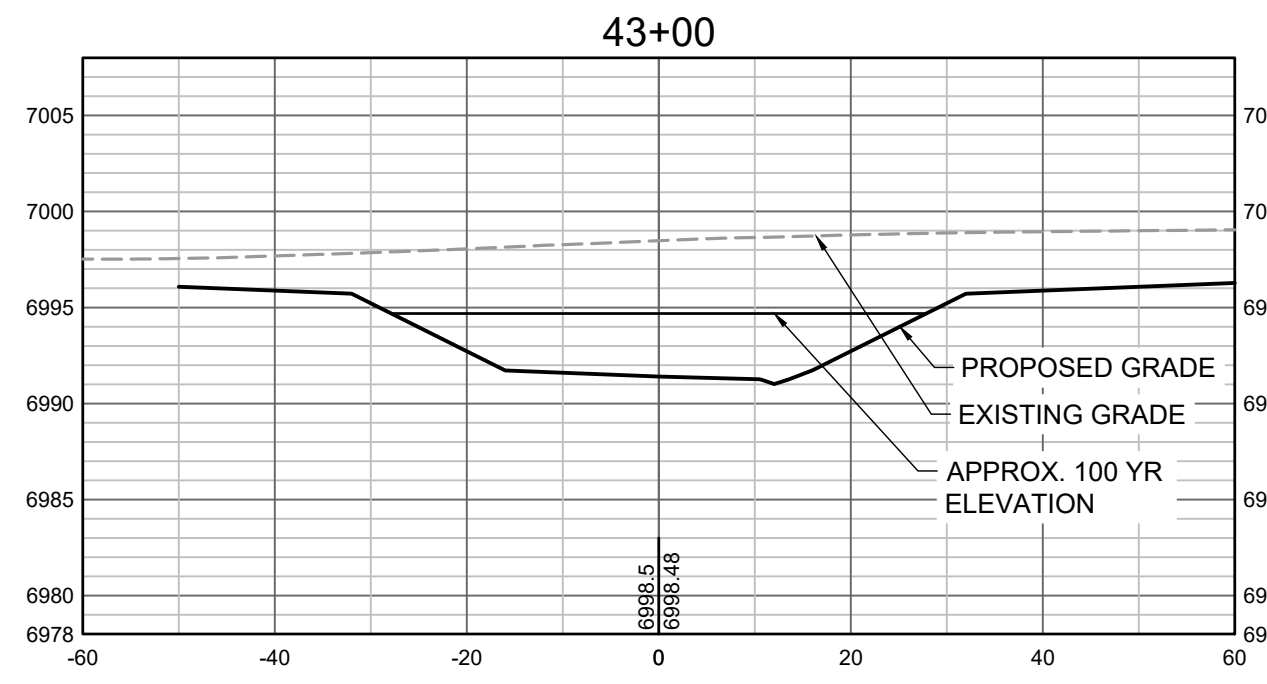
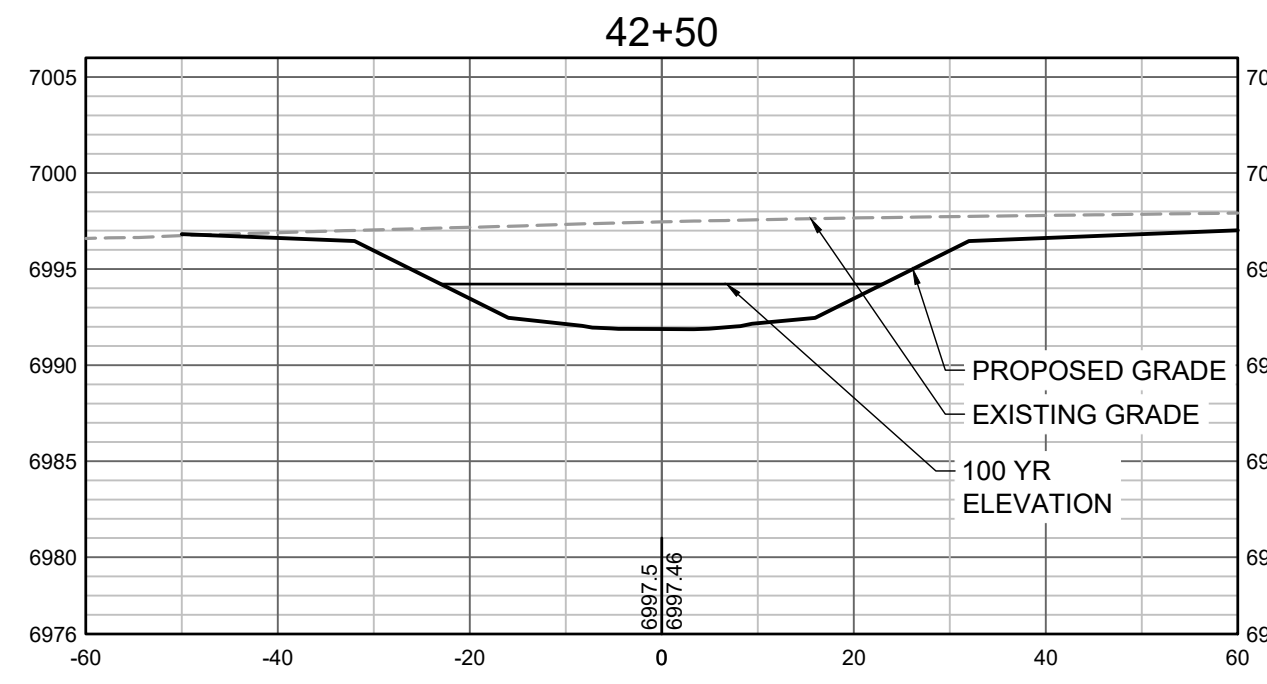
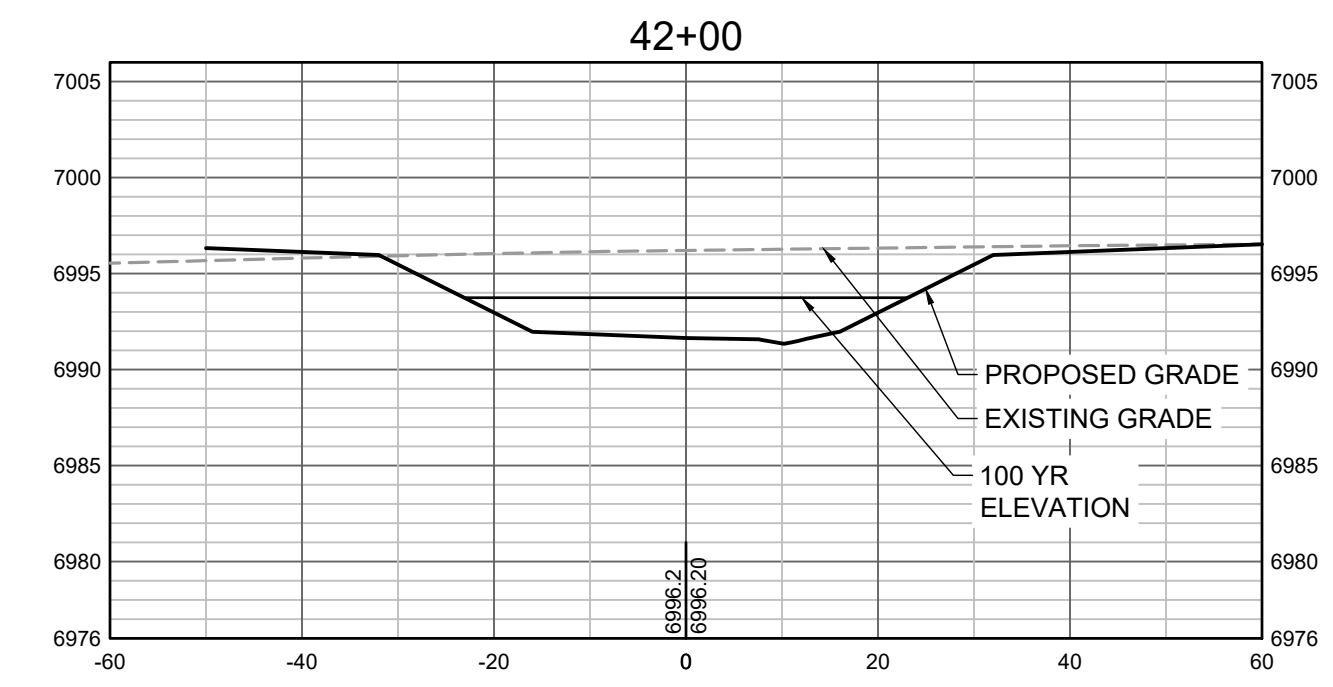
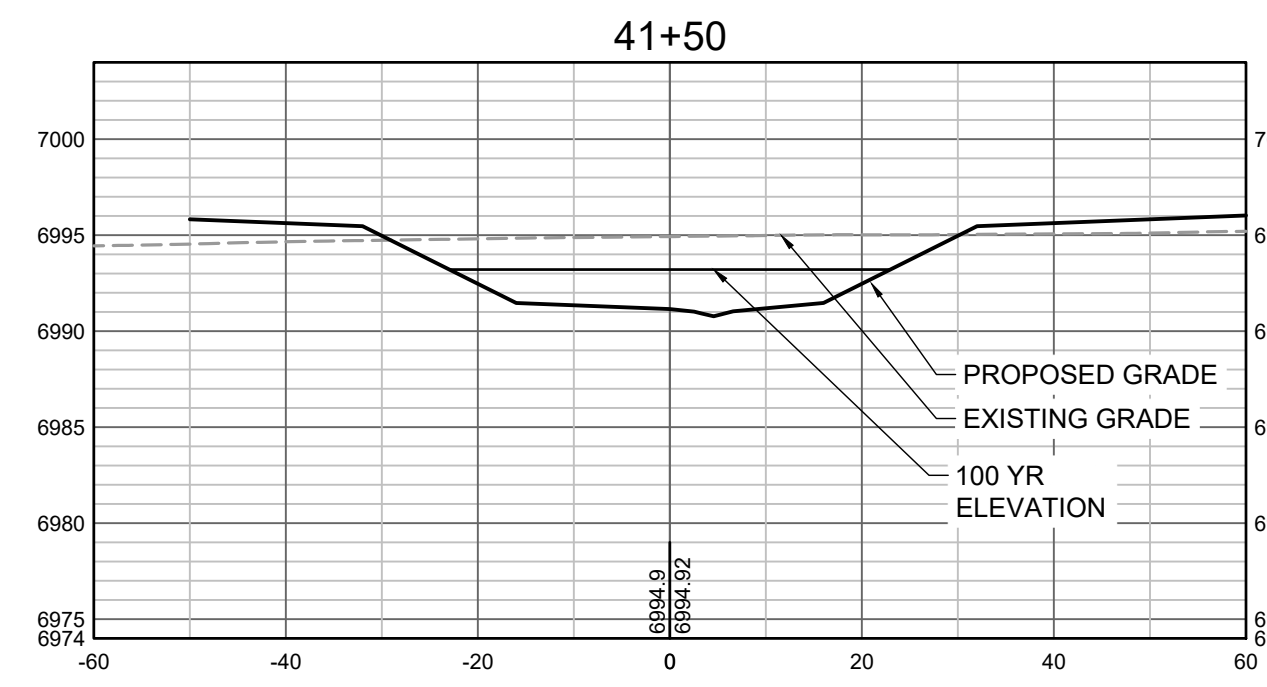
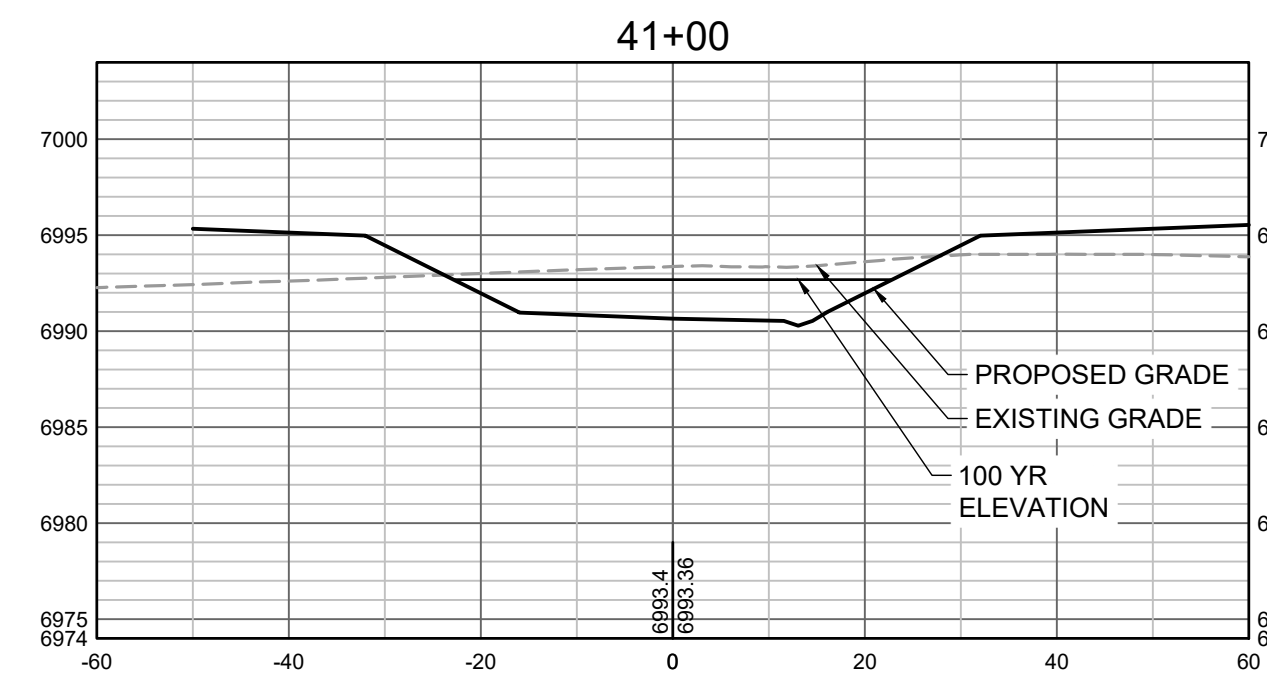
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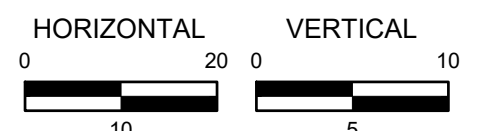
GRANDVIEW RESERVE (DRAINAGE A & B)
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CONSTRUCTION DOCUMENTS
 TRIBUTARY 2 CROSS SECTIONS

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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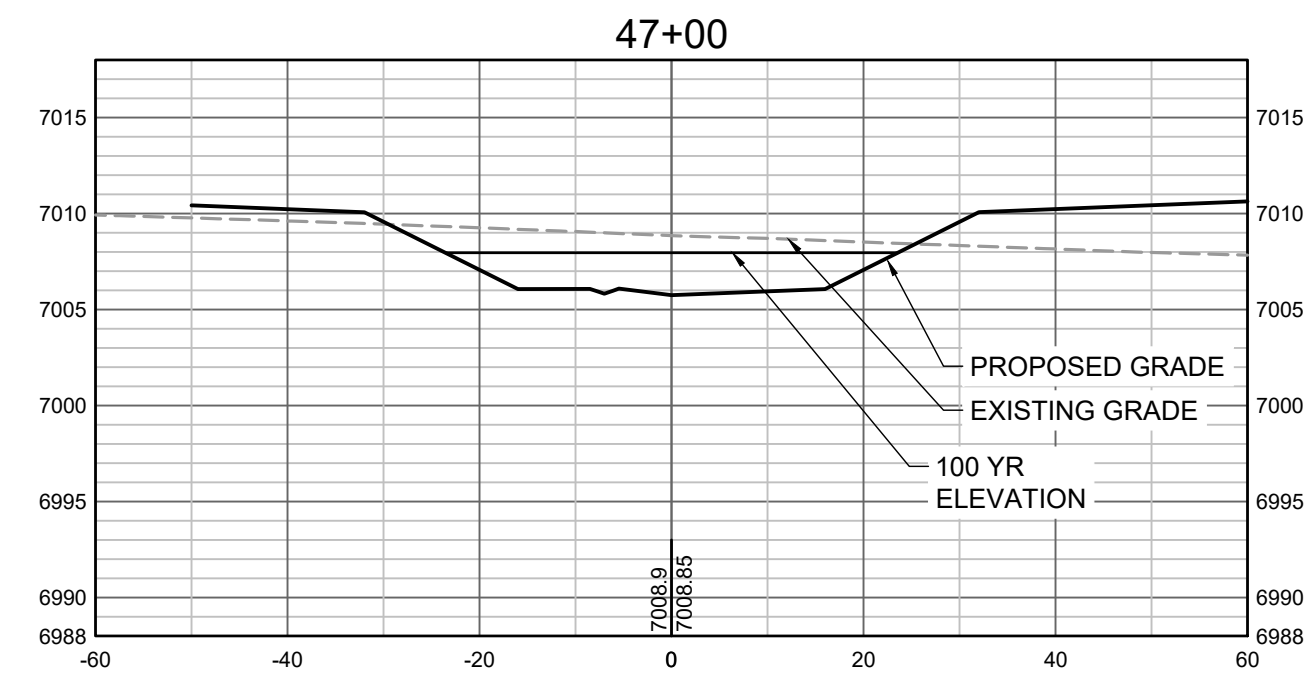
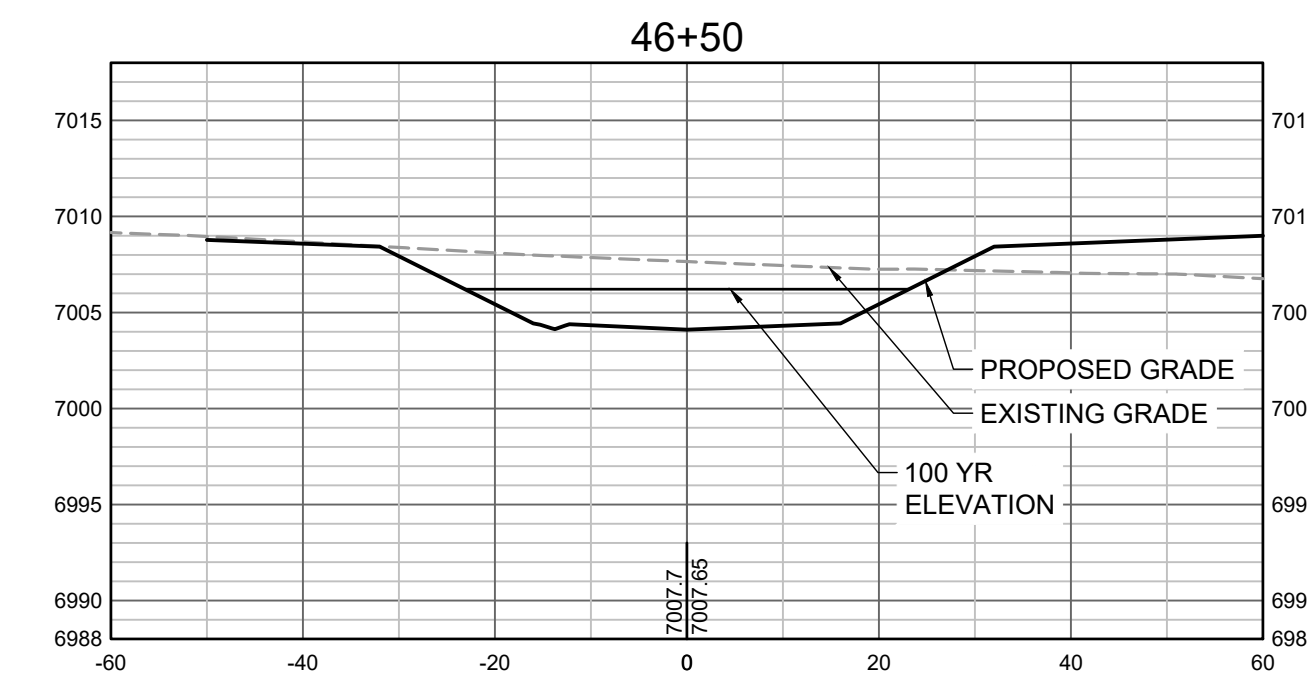
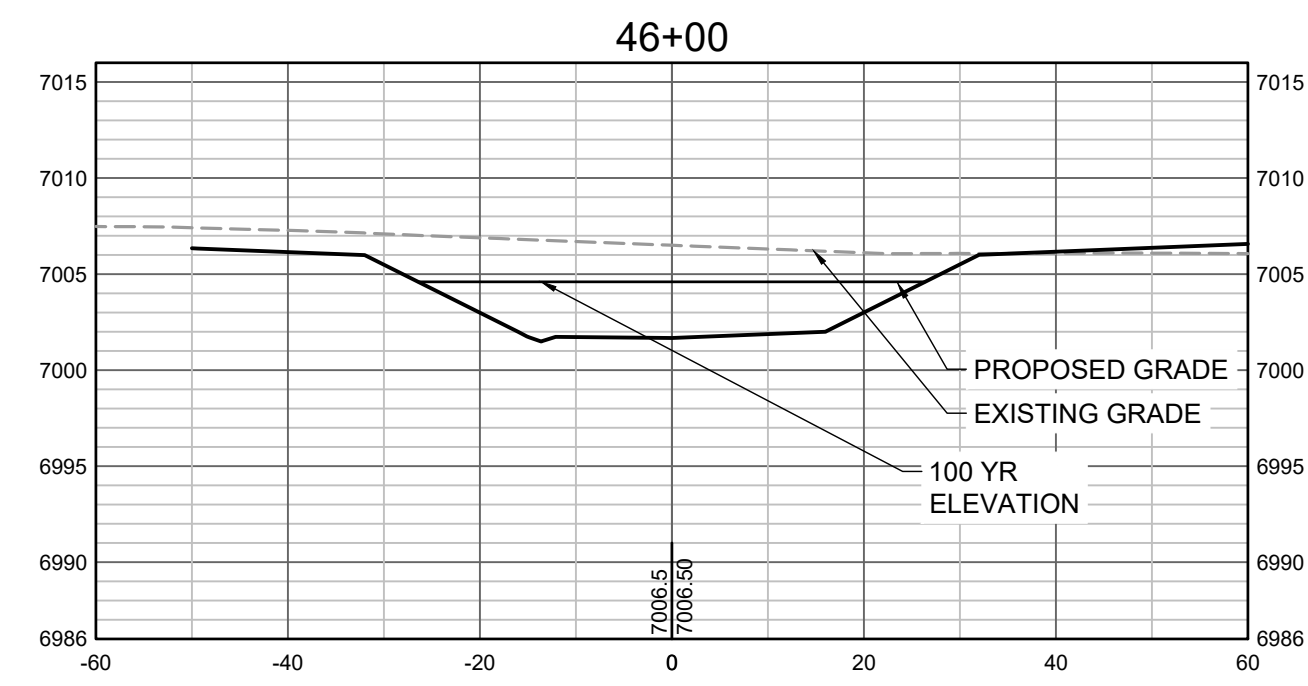
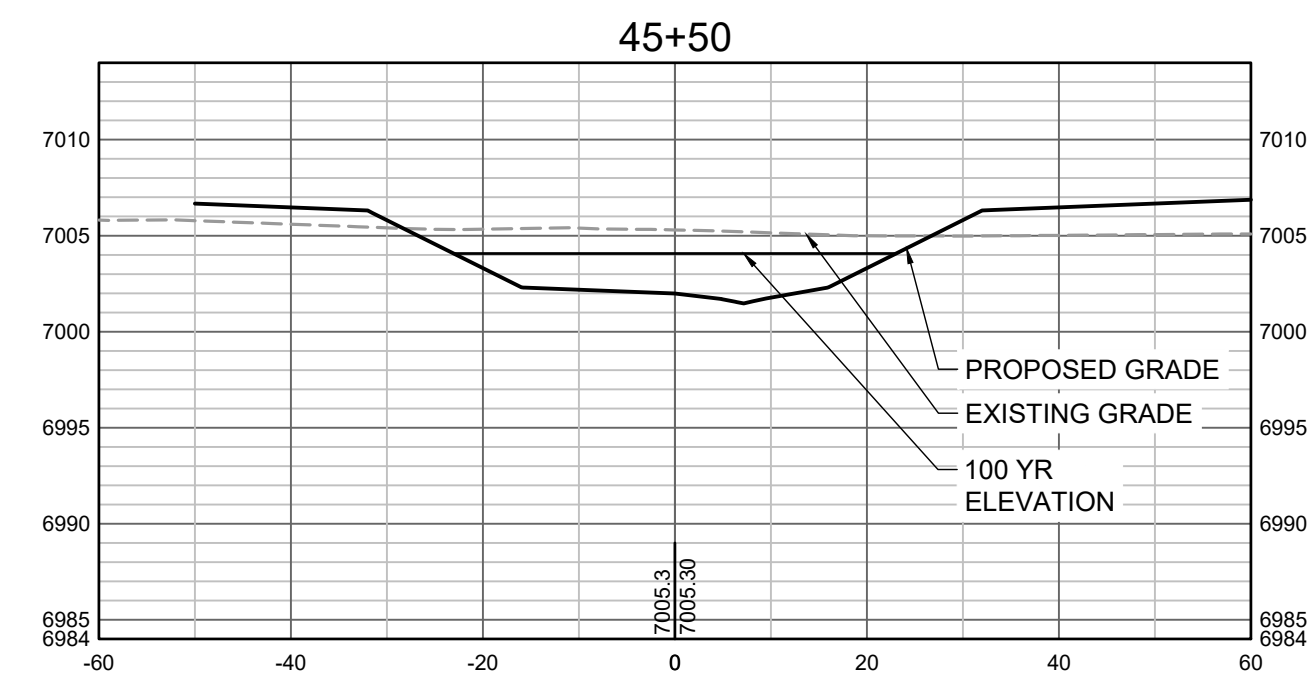


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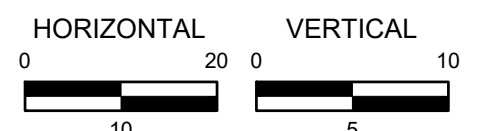
GRANDVIEW RESERVE (DRAINAGE A & B)
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CONSTRUCTION DOCUMENTS
 TRIBUTARY 2 CROSS SECTIONS

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

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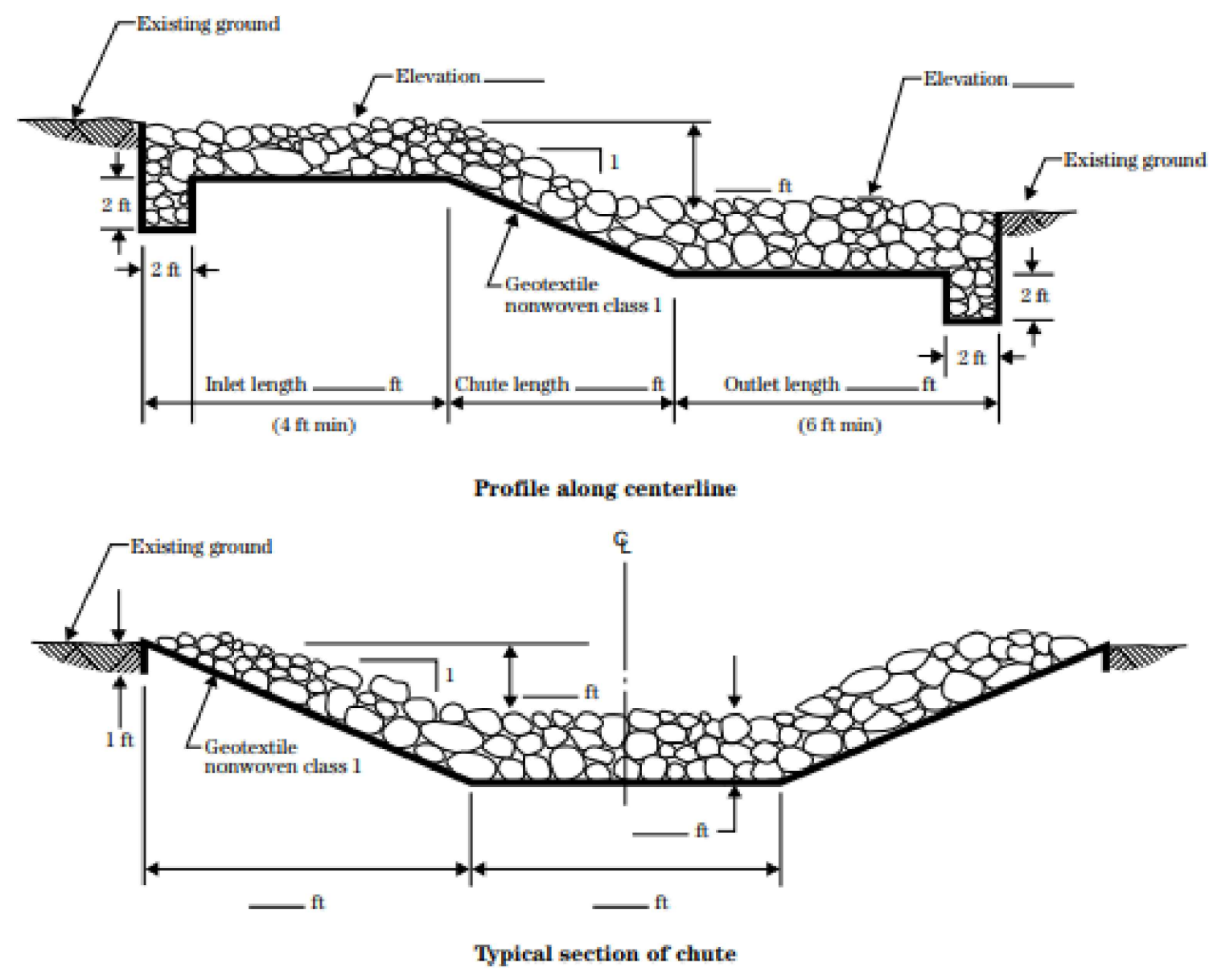
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GRANDVIEW RESERVE (DRAINAGE A & B)
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CONSTRUCTION DOCUMENTS
 TRIBUTARY 2 CROSS SECTIONS

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CS11
 41

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



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

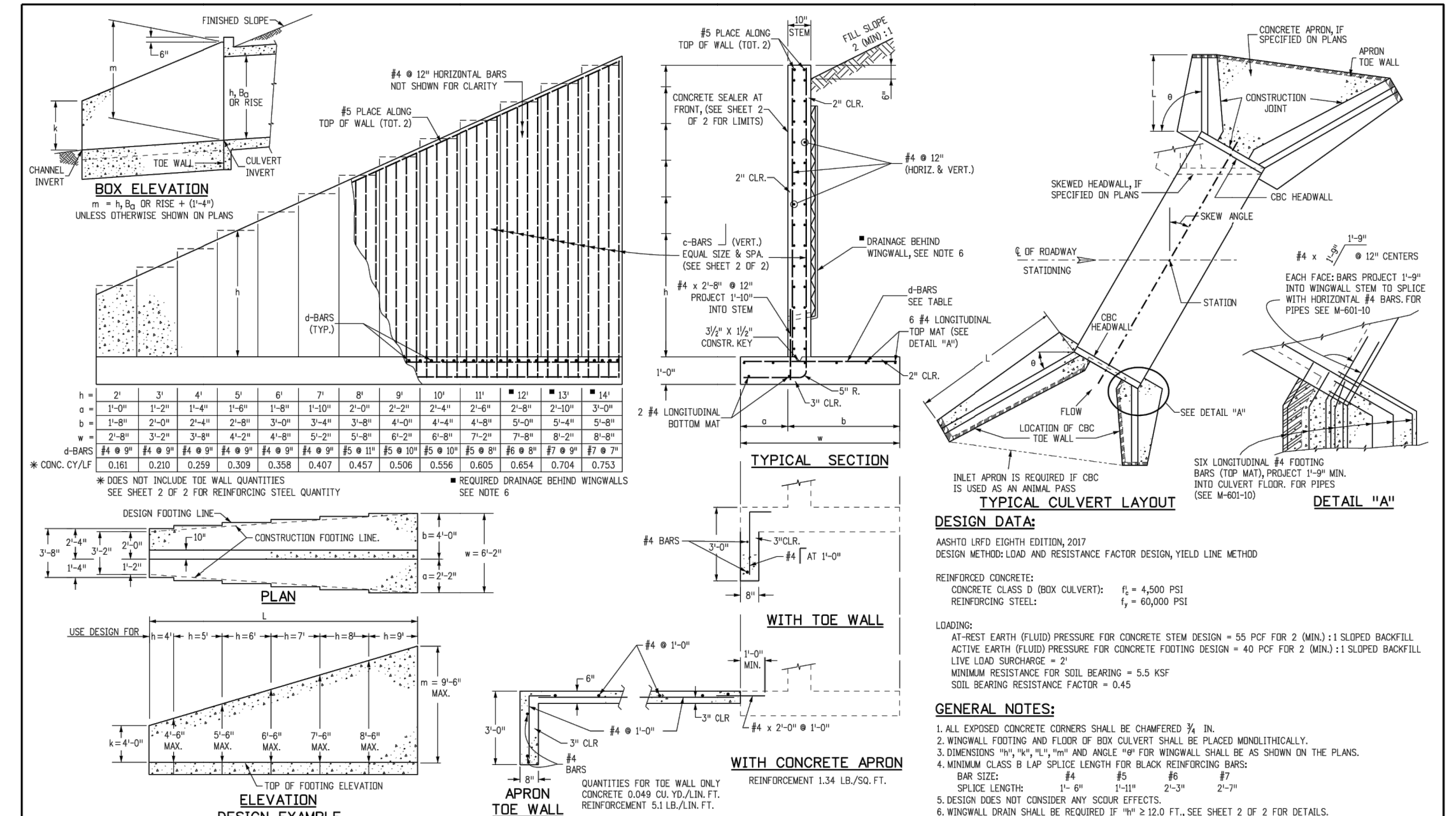


Figure 9-9. Concrete or grout cutoff wall upstream of drop structure

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

c-BARS AND REINFORCING STEEL QUANTITY (EXCLUDE THE WALL)		REINFORCING STEEL QUANTITY (EXCLUDE THE WALL)	
W (FT)	L (FT)	REINFB (LB/LF)	REINFB (LB/LF)
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14	3	4.00	4.00
14	4	4.00	4.00
14	5	4.00	4.00
14	6	4.00	4.00
14	7	4.00	4.00
14	8	4.00	4.00
14	9	4.00	4.00
14	10	4.00	4.00
14	11	4.00	4.00
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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. 2 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

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 APPROVED: CMM JOB NUMBER: 201662.03
 CAD DATE: 3/27/2023
 CAD FILE: J120201201662.03\CAD\DWGS\CIDETAILS

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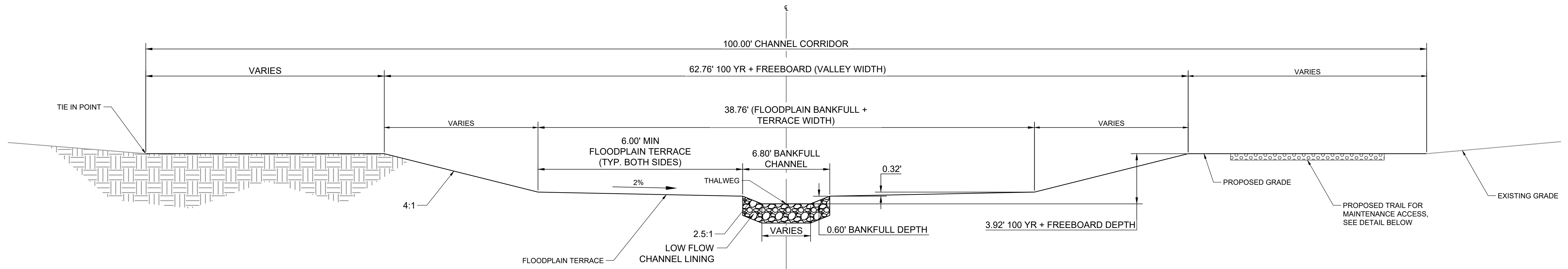
NO.	DATE	BY	REVISION DESCRIPTION

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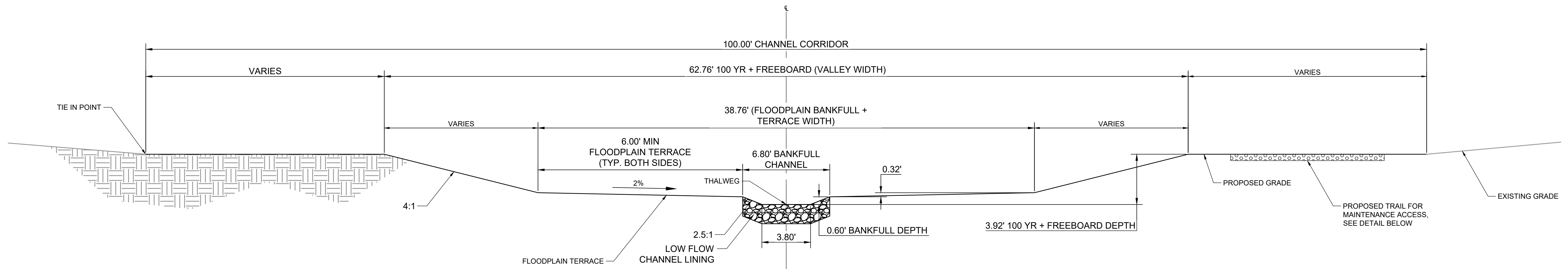
GRANDVIEW RESERVE (DRAINAGE A & B)
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CONSTRUCTION DOCUMENTS
 DETAILS

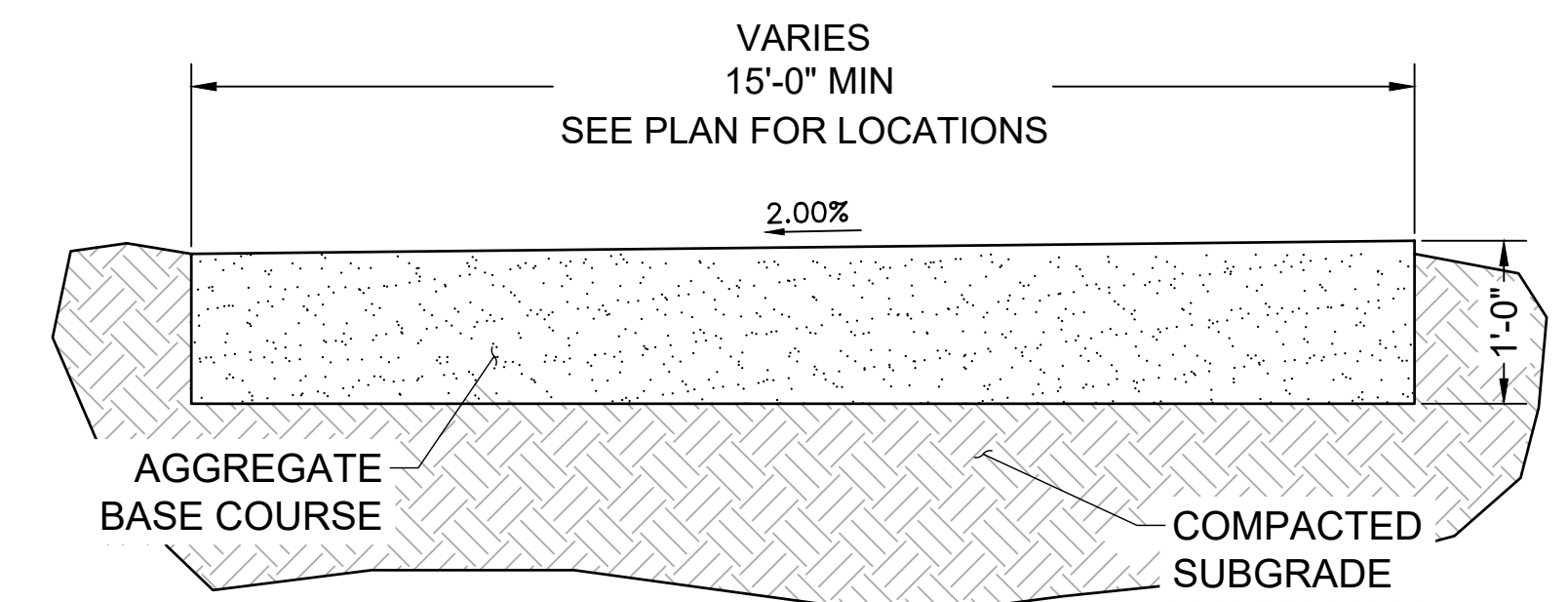
SHEET
DT1
 42



1 TYPICAL CROSS SECTION CHANNEL A
SCALE: N.T.S.



2 TYPICAL CROSS SECTION CHANNEL B
SCALE: N.T.S.



MAINTENANCE ROAD TYPICAL SECTION
SCALE: NTS

- NOTES:
- BANKFULL CHANNEL MAY SHIFT LEFT OR RIGHT WITHIN THE BANKFULL + TERRACE WIDTH SO LONG AS THE MINIMUM FLOOD PLAIN TERRACE WIDTH OF 6' IS MAINTAINED ON BOTH SIDES.
 - VALLEY WIDTH MAY SHIFT WITHIN THE 100' CHANNEL CORRIDOR.
 - SEE PROFILES FOR ELEVATION AT THALWEG.

DRAWN BY: TBI JOB DATE: 3/22/2023
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 HR GREEN - DENVER
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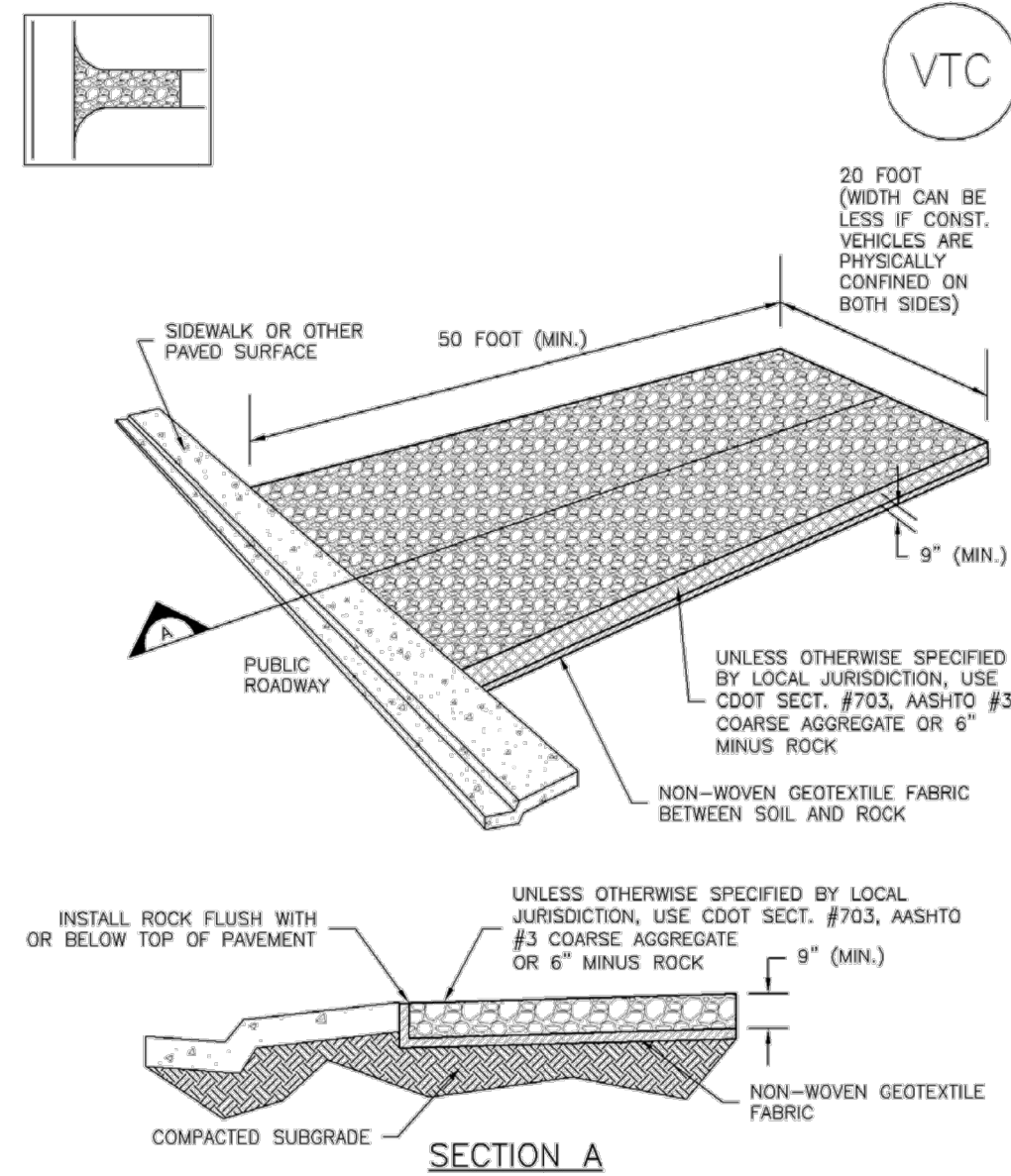
GRANDVIEW RESERVE (DRAINAGE A & B)
DR HORTON
 FALCON, COLORADO

CONSTRUCTION DOCUMENTS
 DETAILS

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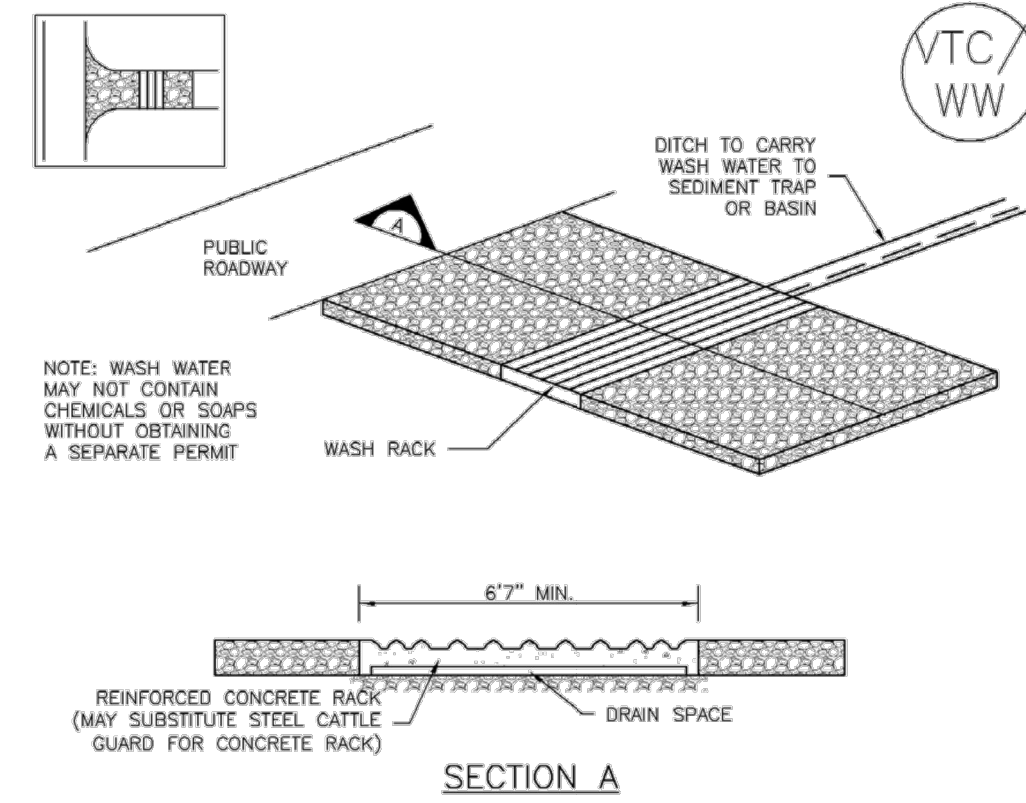
Vehicle Tracking Control (VTC) SM-4



VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

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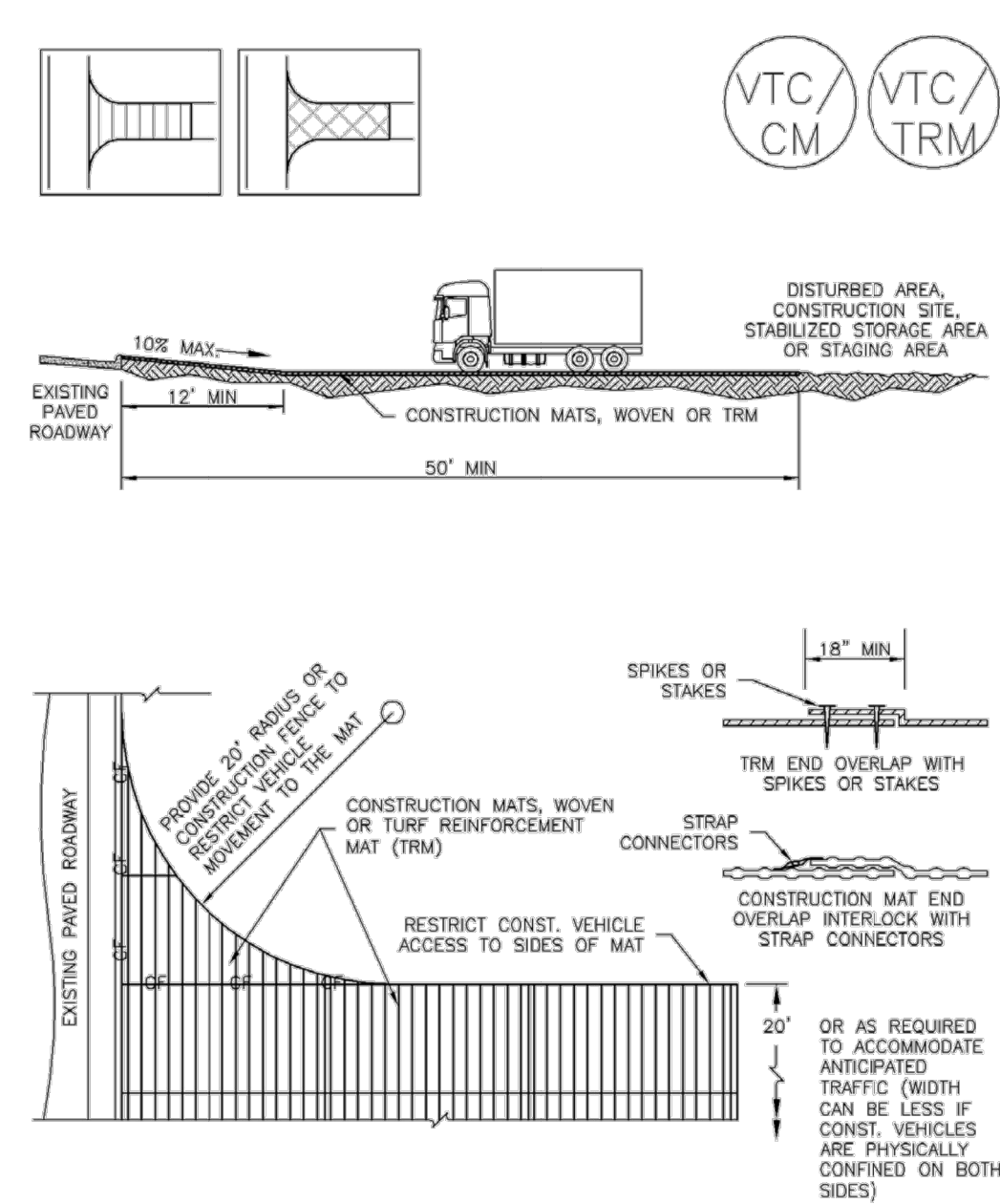
SM-4 Vehicle Tracking Control (VTC)



VTC-2. AGGREGATE VEHICLE TRACKING CONTROL WITH WASH RACK

VTC-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Vehicle Tracking Control (VTC) SM-4



VTC-3. VEHICLE TRACKING CONTROL W/ CONSTRUCTION MAT OR TURF REINFORCEMENT MAT (TRM)

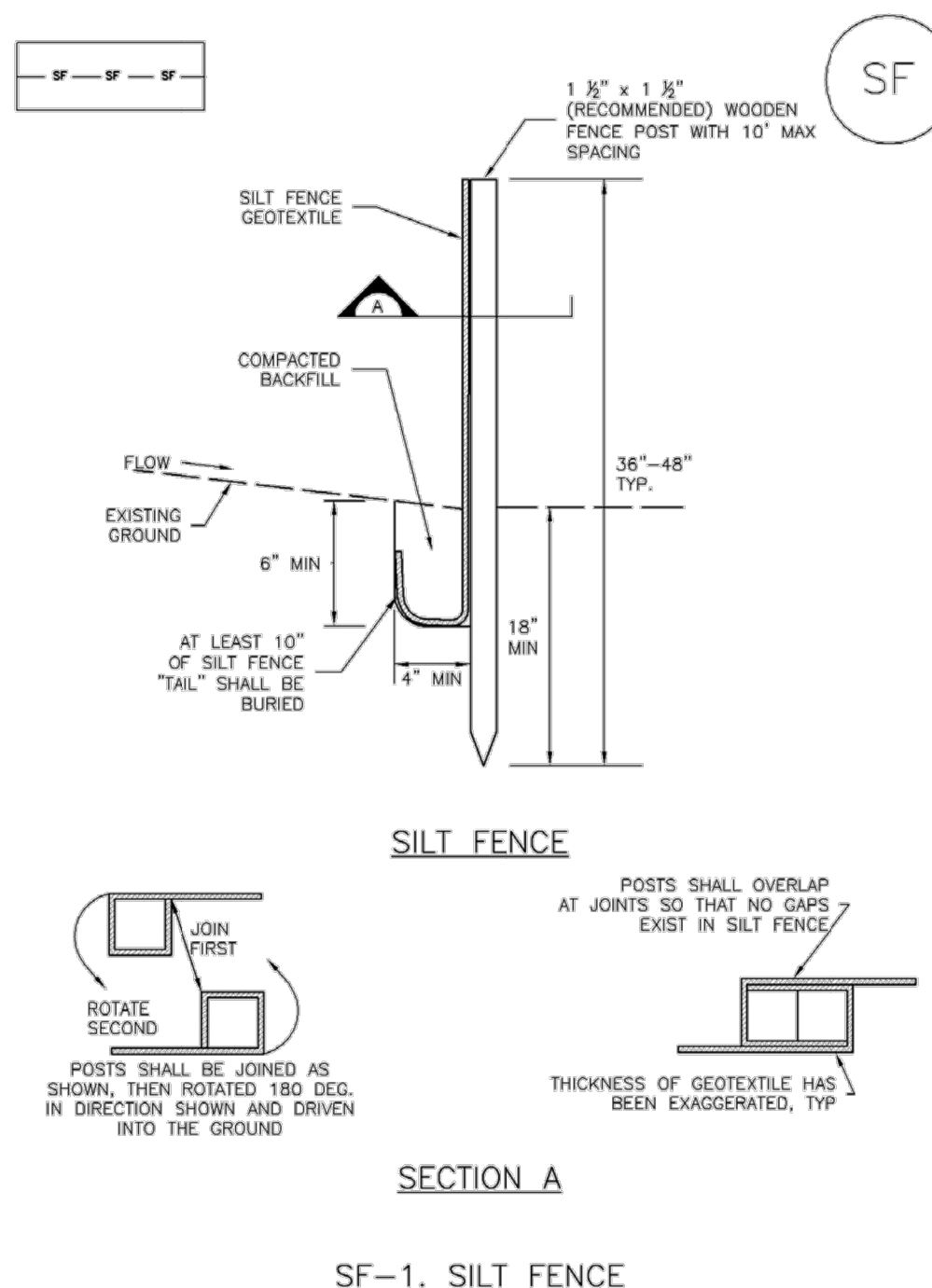
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 VTC-5

SM-4 Vehicle Tracking Control (VTC)

- STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES**
- SEE PLAN VIEW FOR:
 - LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S)
 - TYPE OF CONSTRUCTION ENTRANCE(S)/EXIT(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM)
 - CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.
 - A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.
 - STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
 - A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
 - UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
- STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.
 - SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
- (DETAILS ADAPTED FROM CITY OF BROOMFIELD, COLORADO, NOT AVAILABLE IN AUTOCAD)

VTC-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Silt Fence (SF) SC-1



SF-1. SILT FENCE

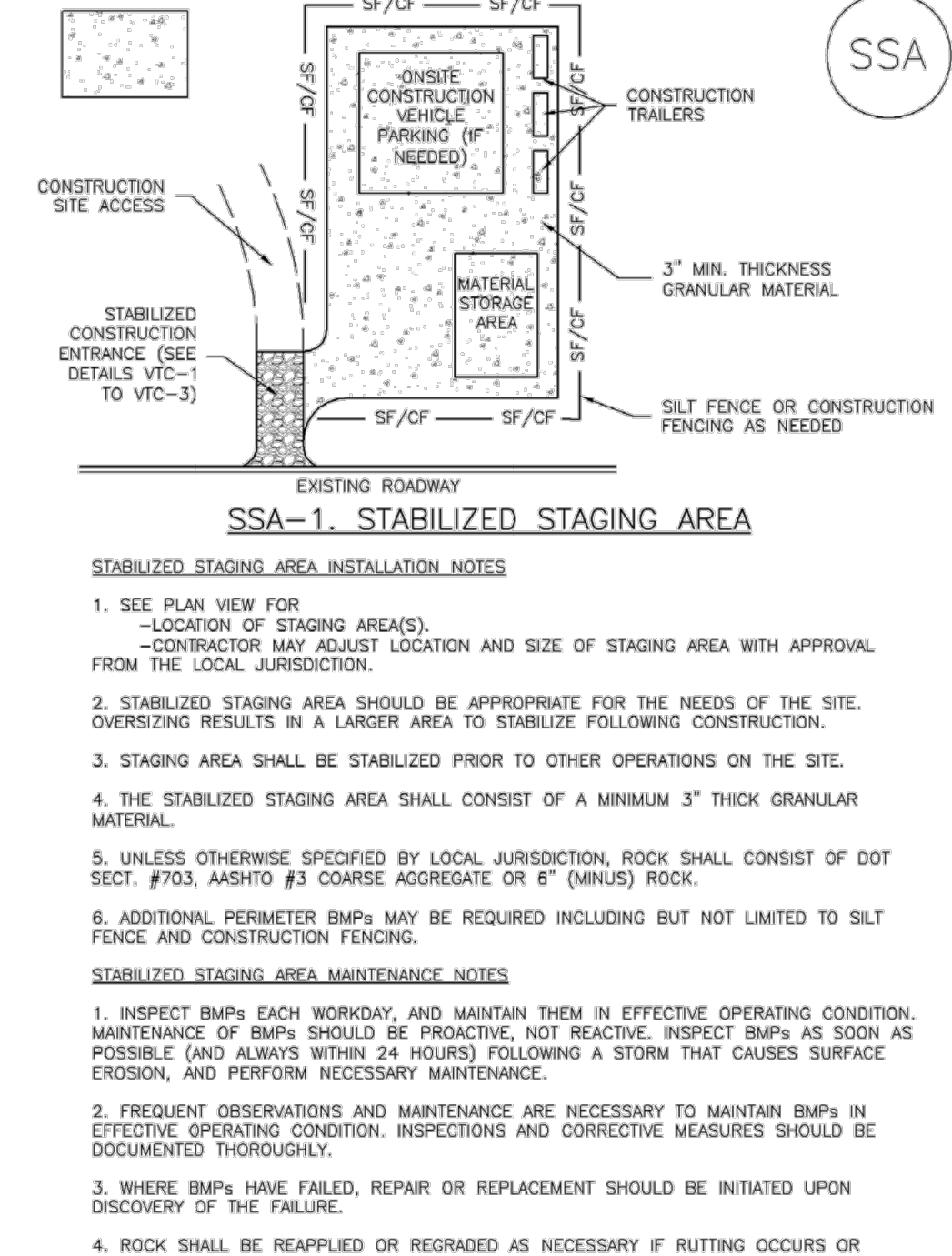
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SF-3

SC-1 Silt Fence (SF)

- SILT FENCE INSTALLATION NOTES**
- SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.
 - A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.
 - COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
 - SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.
 - SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE.
 - AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "J-HOOK." THE "J-HOOK" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20').
 - SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- SILT FENCE MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 6".
 - REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.
 - SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.
 - WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.
- (DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, NOT AVAILABLE IN AUTOCAD)
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

SF-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Stabilized Staging Area (SSA) SM-6



SSA-1. STABILIZED STAGING AREA

- STABILIZED STAGING AREA INSTALLATION NOTES**
- SEE PLAN VIEW FOR:
 - LOCATION OF STAGING AREA(S)
 - CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
 - STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
 - STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
 - THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.
 - UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
 - ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.
- STABILIZED STAGING AREA MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

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SM-6 Stabilized Staging Area (SSA)

- STABILIZED STAGING AREA MAINTENANCE NOTES**
- STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.
 - THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.
- NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
- (DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

SSA-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

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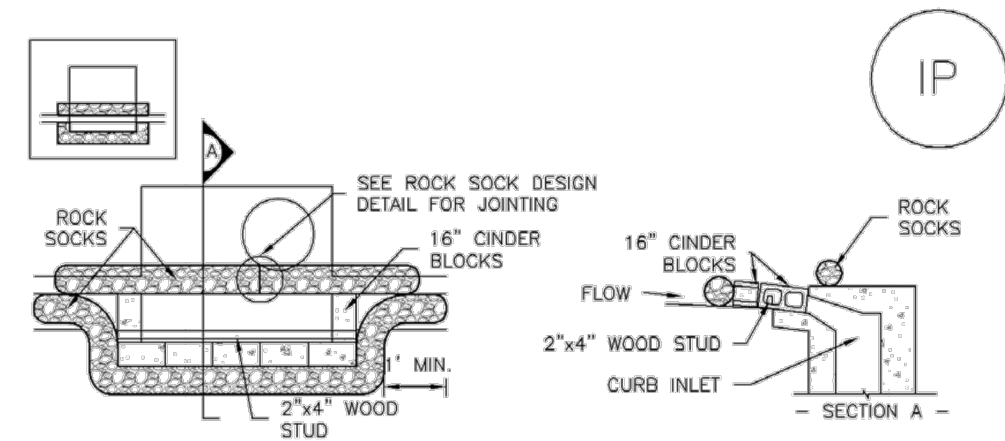
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GRANDVIEW RESERVE (DRAINAGE A & B)
DR HORTON
 FALCON, COLORADO

CONSTRUCTION DOCUMENTS
 DETAILS

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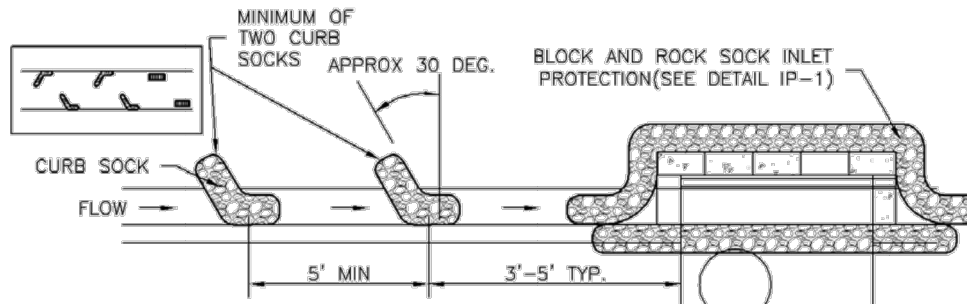
SC-6 Inlet Protection (IP)



IP-1. BLOCK AND ROCK SOCK SUMP OR ON GRADE INLET PROTECTION

BLOCK AND CURB SOCK INLET PROTECTION INSTALLATION NOTES

- 1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. CONCRETE 'CINDER' BLOCKS SHALL BE LAID ON THEIR SIDES AROUND THE INLET...
3. GRAVEL BAGS SHALL BE PLACED AROUND CONCRETE BLOCKS, CLOSELY ABUTTING ONE ANOTHER AND JOINED TOGETHER IN ACCORDANCE WITH ROCK SOCK DESIGN DETAIL.



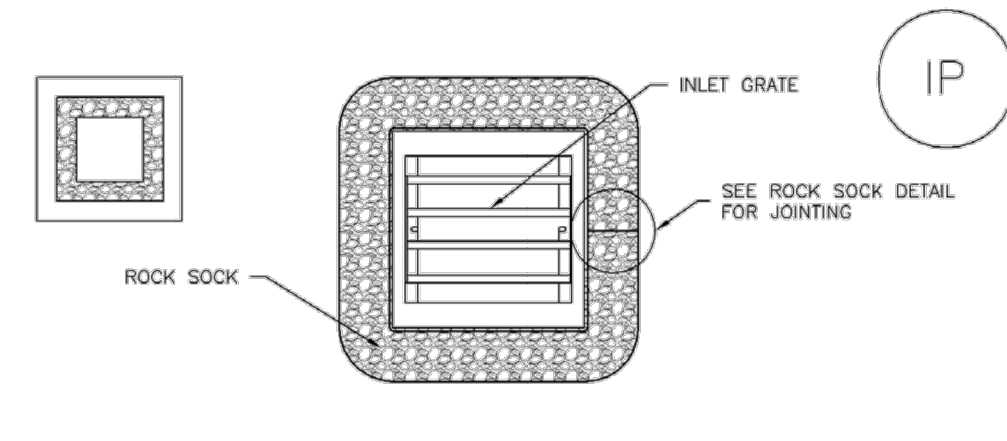
IP-2. CURB ROCK SOCKS UPSTREAM OF INLET PROTECTION

CURB ROCK SOCK INLET PROTECTION INSTALLATION NOTES

- 1. SEE ROCK SOCK DESIGN DETAIL, INSTALLATION REQUIREMENTS.
2. PLACEMENT OF THE SOCK SHALL BE APPROXIMATELY 30 DEGREES FROM PERPENDICULAR IN THE OPPOSITE DIRECTION OF FLOW.
3. SOCKS ARE TO BE FLUSH WITH THE CURB AND SPACED A MINIMUM OF 5 FEET APART.
4. AT LEAST TWO CURB SOCKS IN SERIES ARE REQUIRED UPSTREAM OF ON-GRADE INLETS.

IP-4 Urban Drainage and Flood Control District August 2013 Urban Storm Drainage Criteria Manual Volume 3

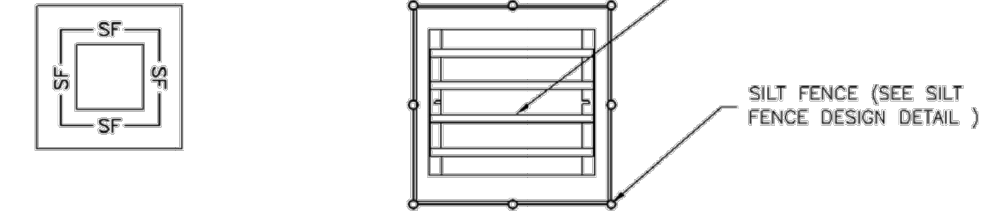
Inlet Protection (IP) SC-6



IP-3. ROCK SOCK SUMP/AREA INLET PROTECTION

ROCK SOCK SUMP/AREA INLET PROTECTION INSTALLATION NOTES

- 1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF ROCK SOCKS FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.



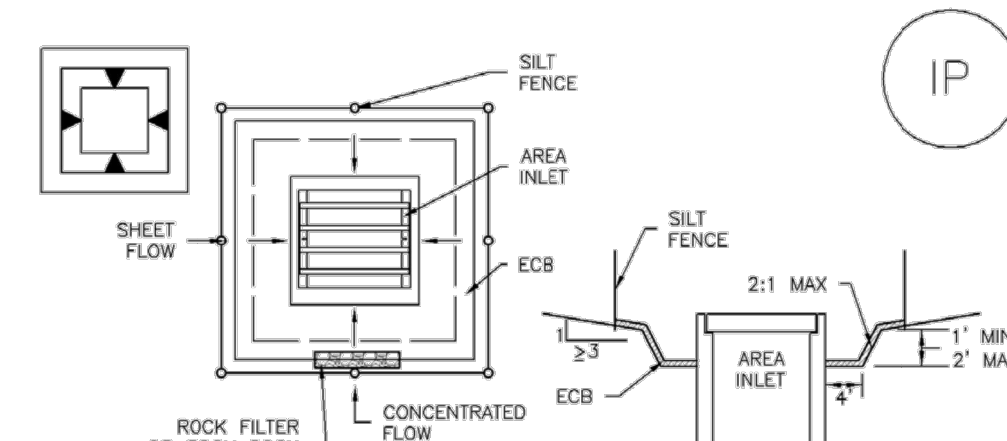
IP-4. SILT FENCE FOR SUMP INLET PROTECTION

SILT FENCE INLET PROTECTION INSTALLATION NOTES

- 1. SEE SILT FENCE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. POSTS SHALL BE PLACED AT EACH CORNER OF THE INLET AND AROUND THE EDGES AT A MAXIMUM SPACING OF 3 FEET.
3. STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF SILT FENCE FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.

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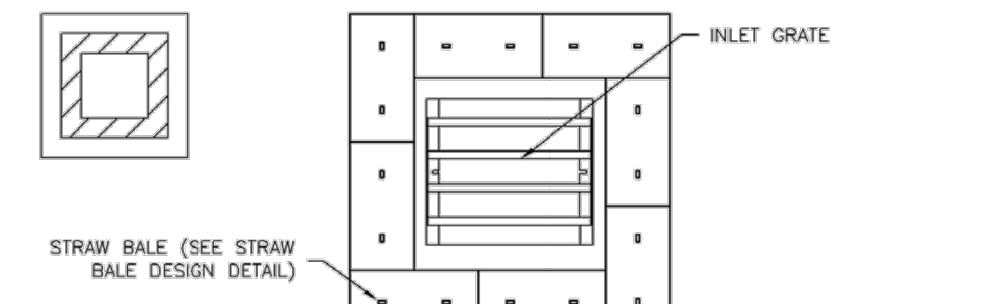
SC-6 Inlet Protection (IP)



IP-5. OVEREXCAVATION INLET PROTECTION

OVEREXCAVATION INLET PROTECTION INSTALLATION NOTES

- 1. THIS FORM OF INLET PROTECTION IS PRIMARILY APPLICABLE FOR SITES THAT HAVE NOT YET REACHED FINAL GRADE...
2. WHEN USING FOR CONCENTRATED FLOWS, SHAPE BASIN IN 2:1 RATIO WITH LENGTH ORIENTED TOWARDS DIRECTION OF FLOW.
3. SEDIMENT MUST BE PERIODICALLY REMOVED FROM THE OVEREXCAVATED AREA.



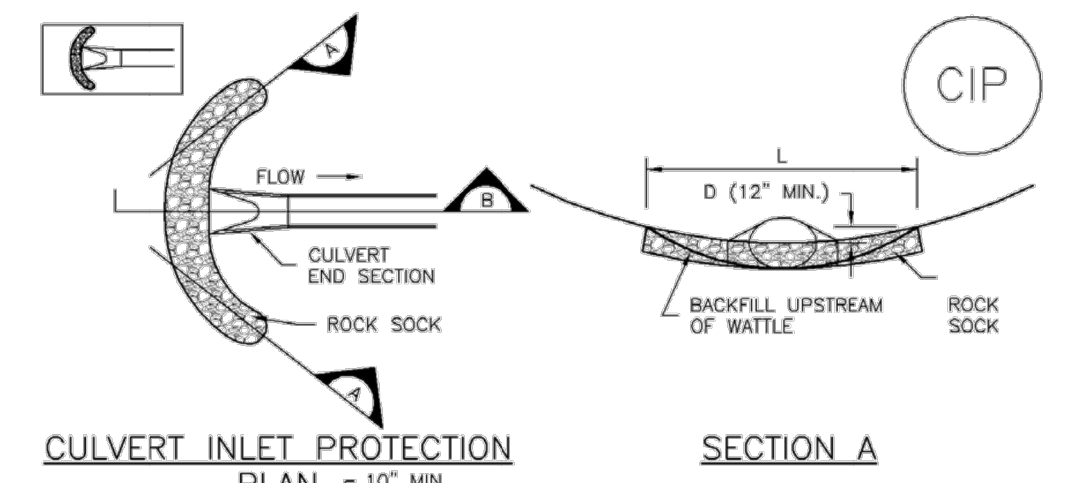
IP-6. STRAW BALE FOR SUMP INLET PROTECTION

STRAW BALE BARRIER INLET PROTECTION INSTALLATION NOTES

- 1. SEE STRAW BALE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. BALES SHALL BE PLACED IN A SINGLE ROW AROUND THE INLET WITH ENDS OF BALES TIGHTLY ABUTTING ONE ANOTHER.

IP-6 Urban Drainage and Flood Control District August 2013 Urban Storm Drainage Criteria Manual Volume 3

Inlet Protection (IP) SC-6



CIP-1. CULVERT INLET PROTECTION

CULVERT INLET PROTECTION INSTALLATION NOTES

- 1. SEE PLAN VIEW FOR -LOCATION OF CULVERT INLET PROTECTION.
2. SEE ROCK SOCK DESIGN DETAIL FOR ROCK GRADATION REQUIREMENTS AND JOINING DETAIL.

CULVERT INLET PROTECTION MAINTENANCE NOTES

- 1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION...
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION...
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

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SC-6 Inlet Protection (IP)

GENERAL INLET PROTECTION INSTALLATION NOTES

- 1. SEE PLAN VIEW FOR: -LOCATION OF INLET PROTECTION, -TYPE OF INLET PROTECTION (IP-1, IP-2, IP-3, IP-4, IP-5, IP-6)
2. INLET PROTECTION SHALL BE INSTALLED PROMPTLY AFTER INLET CONSTRUCTION OR PAVING IS COMPLETE...
3. MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

INLET PROTECTION MAINTENANCE NOTES

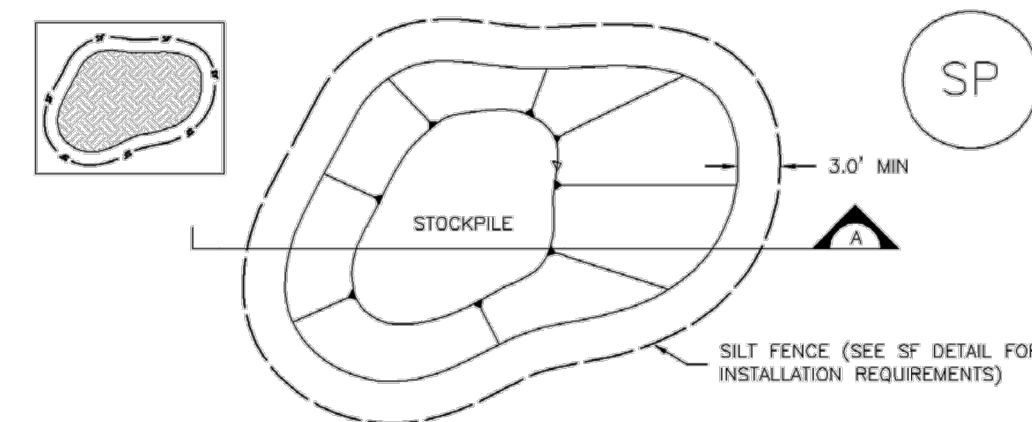
- 1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION...
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION...
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. SEDIMENT ACCUMULATED UPSTREAM OF INLET PROTECTION SHALL BE REMOVED AS NECESSARY...
5. INLET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED...
6. WHEN INLET PROTECTION AT AREA INLETS IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED...

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF INLET PROTECTION IN THE DENVER METROPOLITAN AREA...
NOTE: SOME MUNICIPALITIES DISCOURAGE OR PROHIBIT THE USE OF STRAW BALES FOR INLET PROTECTION. CHECK WITH LOCAL JURISDICTION TO DETERMINE IF STRAW BALE INLET PROTECTION IS ACCEPTABLE.

IP-8 Urban Drainage and Flood Control District August 2013 Urban Storm Drainage Criteria Manual Volume 3

Stockpile Management (SP) MM-2



SP-1. STOCKPILE PROTECTION

STOCKPILE PROTECTION INSTALLATION NOTES

- 1. SEE PLAN VIEW FOR: -LOCATION OF STOCKPILES, -TYPE OF STOCKPILE PROTECTION.
2. INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS...
3. STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING...
4. FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE...

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MM-2 Stockpile Management (SM)

STOCKPILE PROTECTION MAINTENANCE NOTES

- 1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION...
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION...
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

STOCKPILE PROTECTION MAINTENANCE NOTES

- 4. IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORKDAY.
5. STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE STOCKPILE HAS BEEN USED.
(Details adapted from PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

SP-4 Urban Drainage and Flood Control District November 2010 Urban Storm Drainage Criteria Manual Volume 3

Temporary and Permanent Seeding (TS/PS) EC-2

Seeding dates for the highest success probability of perennial species along the Front Range are generally in the spring from April through early May and in the fall after the first of September until the ground freezes. If the area is irrigated, seeding may occur in summer months, as well. See Table TS/PS-3 for appropriate seeding dates.

Table TS/PS-1. Minimum Drill Seeding Rates for Various Temporary Annual Grasses

Table with 4 columns: Species (Common name), Growth Season, Pounds of Pure Live Seed (PLS)/acre, Planting Depth (inches). Rows include Oats, Spring wheat, Spring barley, Annual ryegrass, Millet, Sudangrass, Sorghum, Winter wheat, Winter barley, Winter rye, and Triticale.

Successful seeding of annual grass resulting in adequate plant growth will usually produce enough dead-plant residue to provide protection from wind and water erosion for an additional year. This assumes that the cover is not disturbed or mowed closer than 8 inches.

Hydraulic seeding may be substituted for drilling only where slopes are steeper than 3:1 or where access limitations exist. When hydraulic seeding is used, hydraulic mulching should be applied as a separate operation, when practical, to prevent the seeds from being encapsulated in the mulch.

See Table TS/PS-3 for seeding dates. Irrigation, if consistently applied, may extend the use of cool season species during the summer months.

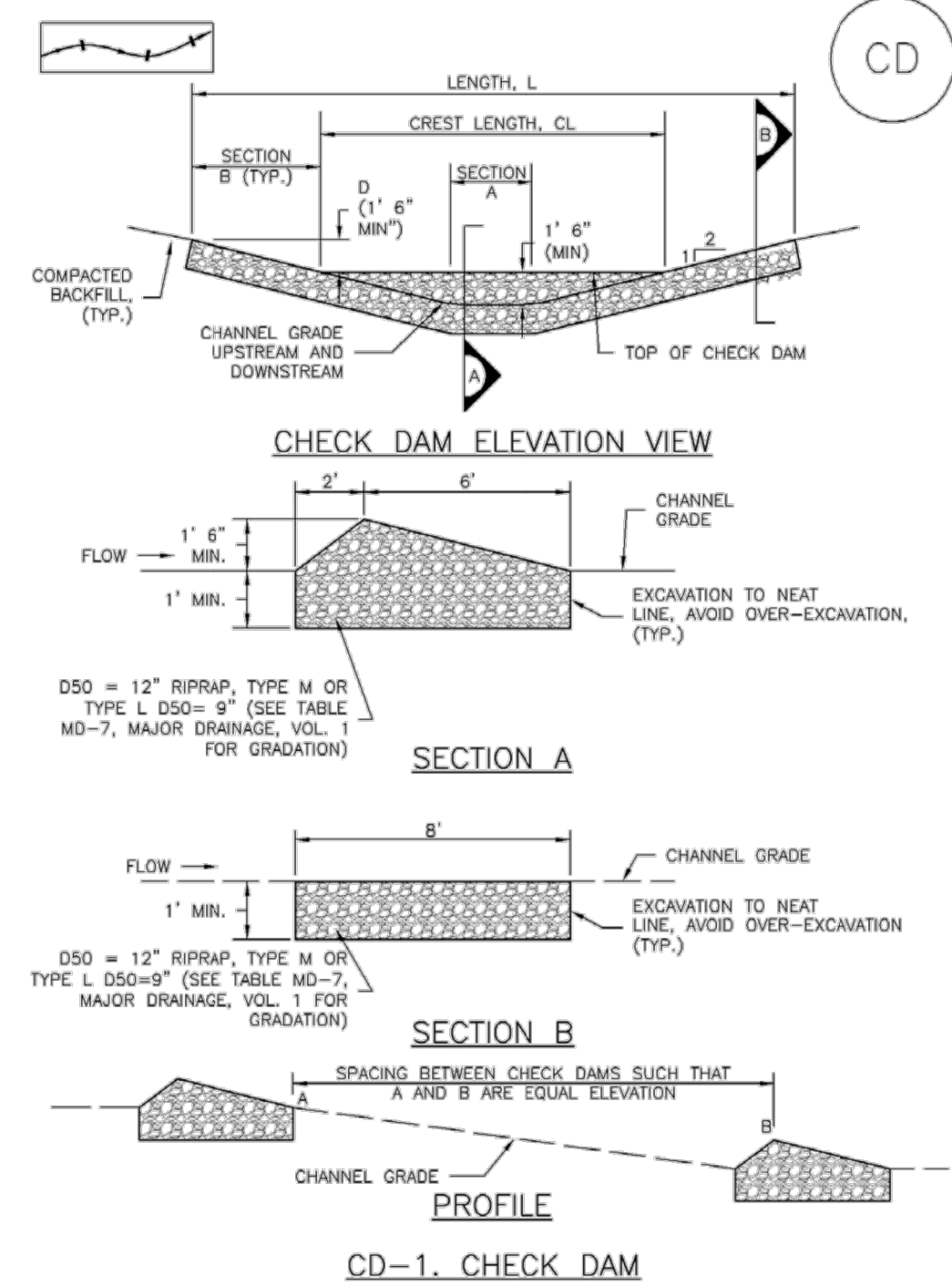
Seeding rates should be doubled if seed is broadcast, or increased by 50 percent if done using a Brillion Drill or by hydraulic seeding.

June 2012 Urban Drainage and Flood Control District June 2012 Urban Storm Drainage Criteria Manual Volume 3 TS/PS-3

Administrative information including drawing title 'CONSTRUCTION DOCUMENTS DETAILS', sheet number '45', and project location 'GRANDVIEW RESERVE (DRAINAGE A & B) DR HORTON FALCON, COLORADO'. Also includes a revision table and HRGreen logo.

Check Dams (CD)

EC-12



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EC-12

Check Dams (CD)

CHECK DAM INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION OF CHECK DAMS.
 - CHECK DAM TYPE (CHECK DAM OR REINFORCED CHECK DAM).
 - LENGTH (L), CREST LENGTH (CL), AND DEPTH (D).
- CHECK DAMS INDICATED ON INITIAL SWMP SHALL BE INSTALLED AFTER CONSTRUCTION FENCE, BUT PRIOR TO ANY UPSTREAM LAND DISTURBING ACTIVITIES.
- RIPRAP UTILIZED FOR CHECK DAMS SHOULD BE OF APPROPRIATE SIZE FOR THE APPLICATION. TYPICAL TYPES OF RIPRAP USED FOR CHECK DAMS ARE TYPE M (D50 12") OR TYPE L (D50 9").
- RIPRAP PAD SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 1'.
- THE ENDS OF THE CHECK DAM SHALL BE A MINIMUM OF 1' 6" HIGHER THAN THE CENTER OF THE CHECK DAM.

CHECK DAM MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SEDIMENT ACCUMULATED UPSTREAM OF THE CHECK DAMS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS WITHIN 1/2 OF THE HEIGHT OF THE CREST.
- CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
- WHEN CHECK DAMS ARE REMOVED, EXCAVATIONS SHALL BE FILLED WITH SUITABLE COMPACTED BACKFILL. DISTURBED AREA SHALL BE SEEDED AND MULCHED AND COVERED WITH GEOTEXTILE OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

CD-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

EC-8

Temporary Outlet Protection (TOP)

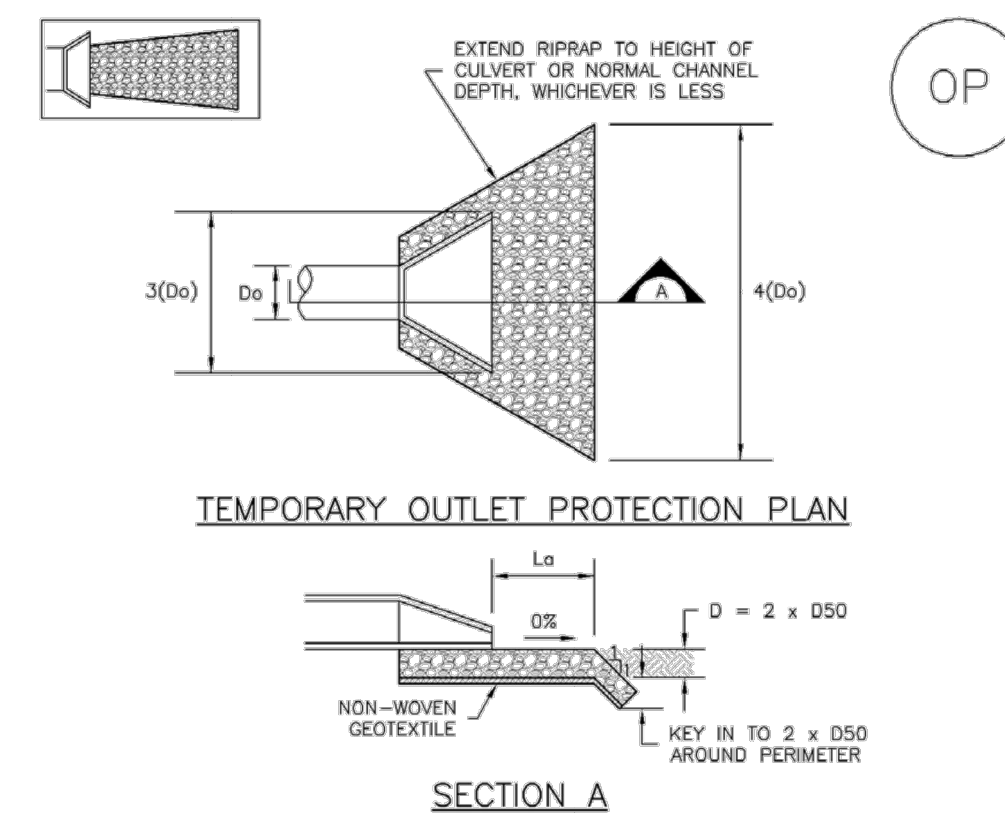


TABLE OP-1. TEMPORARY OUTLET PROTECTION SIZING TABLE

PIPE DIAMETER, Dp (INCHES)	DISCHARGE, Q (CFS)	APRON LENGTH, La (FT)	RIPRAP D50 DIAMETER MIN (INCHES)
8	2.5	5	4
	5	10	6
12	5	10	4
	10	13	6
18	10	10	6
	20	16	9
	30	23	12
	40	26	16
24	30	16	9
	40	26	9
	60	30	16

TOP-2 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Temporary Outlet Protection (TOP)

EC-8

TEMPORARY OUTLET PROTECTION INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION OF OUTLET PROTECTION.
 - DIMENSIONS OF OUTLET PROTECTION.
- DETAIL IS INTENDED FOR PIPES WITH SLOPE \leq 10%. ADDITIONAL EVALUATION OF RIPRAP SIZING AND OUTLET PROTECTION DIMENSIONS REQUIRED FOR STEEPER SLOPES.
- TEMPORARY OUTLET PROTECTION INFORMATION IS FOR OUTLETS INTENDED TO BE UTILIZED LESS THAN 2 YEARS.

TEMPORARY OUTLET PROTECTION INSPECTION AND MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

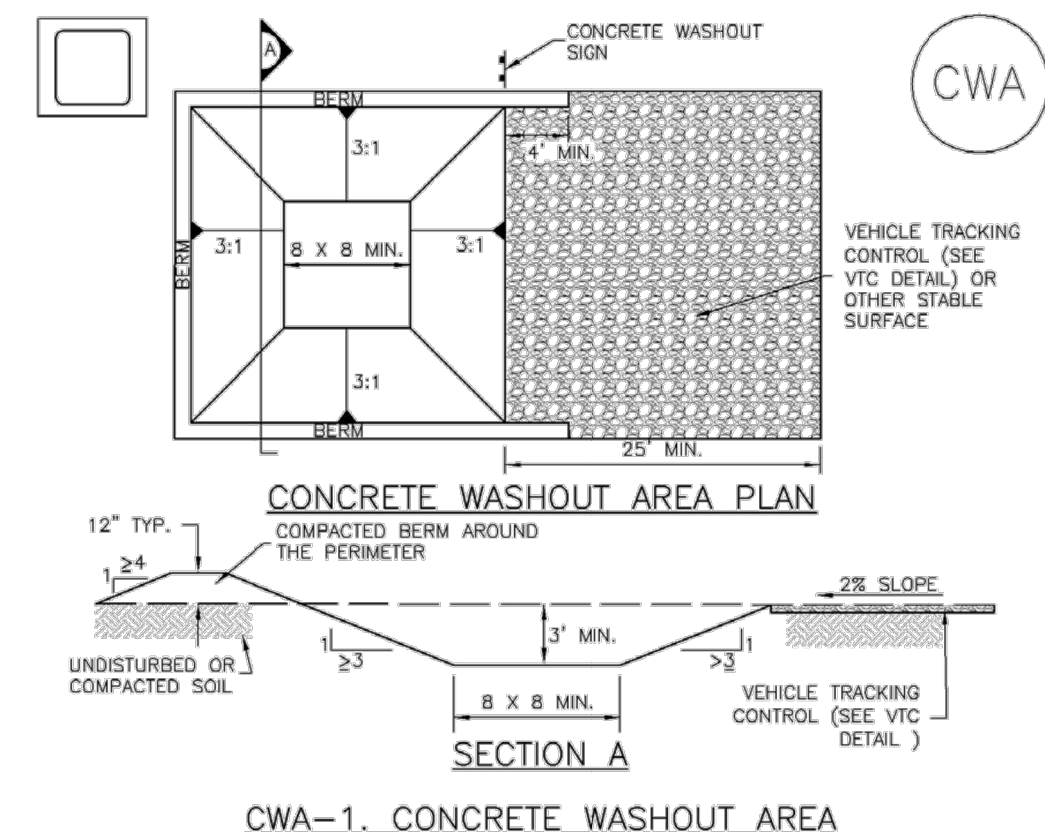
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM AURORA, COLORADO AND PREVIOUS VERSION OF VOLUME 3, NOT AVAILABLE IN AUTOCAD)

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Concrete Washout Area (CWA)

MM-1



CWA-1. CONCRETE WASHOUT AREA

CWA INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - CWA INSTALLATION LOCATION.
- DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (18 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.
- THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
- CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
- BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.
- VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
- SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
- USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 CWA-3

MM-1

Concrete Washout Area (CWA)

CWA MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.
- CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
- THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
- WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

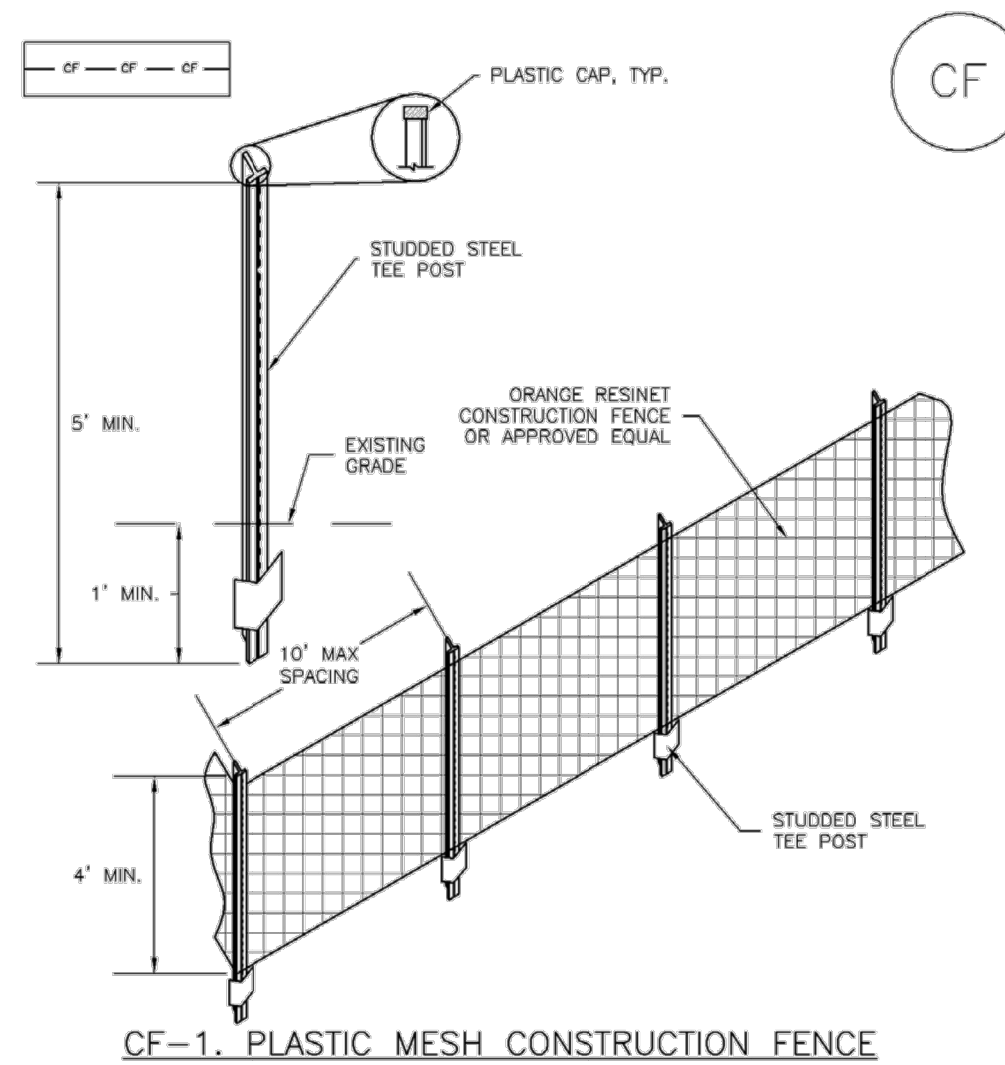
(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

CWA-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

SM-3

Construction Fence (CF)



CF-1. PLASTIC MESH CONSTRUCTION FENCE

CONSTRUCTION FENCE INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION OF CONSTRUCTION FENCE.
- CONSTRUCTION FENCE SHOWN SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- CONSTRUCTION FENCE SHALL BE COMPOSED OF ORANGE, CONTRACTOR-GRADE MATERIAL THAT IS AT LEAST 4' HIGH. METAL POSTS SHOULD HAVE A PLASTIC CAP FOR SAFETY.
- STUDDED STEEL TEE POSTS SHALL BE UTILIZED TO SUPPORT THE CONSTRUCTION FENCE. MAXIMUM SPACING FOR STEEL TEE POSTS SHALL BE 10'.
- CONSTRUCTION FENCE SHALL BE SECURELY FASTENED TO THE TOP, MIDDLE, AND BOTTOM OF EACH POST.

CF-2 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Construction Fence (CF)

SM-3

CONSTRUCTION FENCE MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- CONSTRUCTION FENCE SHALL BE REPAIRED OR REPLACED WHEN THERE ARE SIGNS OF DAMAGE SUCH AS RIPS OR SAGS. CONSTRUCTION FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
- WHEN CONSTRUCTION FENCES ARE REMOVED, ALL DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE FENCE SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 CF-3

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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
 DETAILS

SHEET
 DT5
 46

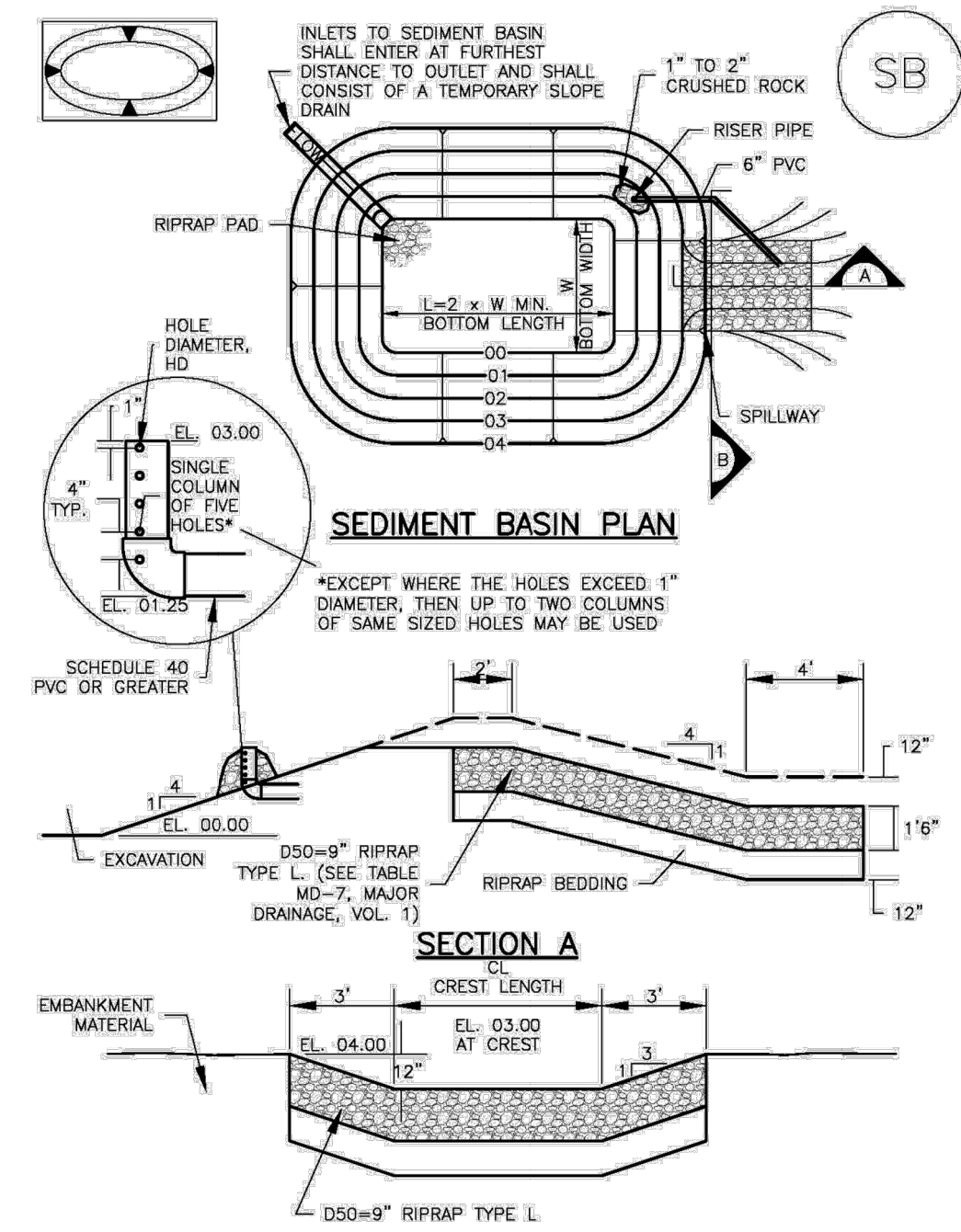


TABLE SB-1. SIZING INFORMATION FOR STANDARD SEDIMENT BASIN

Upstream Drainage Area (rounded to nearest acre), (ac)	Basin Bottom Width (W), (ft)	Spillway Crest Length (CL), (ft)	Hole Diameter (HD), (in)
1	12 1/2	2	3/4
2	21	3	7/8
3	28	5	1
4	33 1/2	6	1 1/8
5	38 1/2	8	1 1/4
6	43	9	1 1/2
7	47 1/2	11	1 3/4
8	51	12	1 7/8
9	55 1/2	13	2
10	58 1/2	15	2 1/8
11	61	16	2 1/4
12	64	18	2 1/2
13	67 1/2	19	2 3/4
14	70 1/2	21	2 7/8
15	73 1/2	22	3

SEDIMENT BASIN INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 -LOCATION OF SEDIMENT BASIN.
 -TYPE OF BASIN (STANDARD BASIN OR NONSTANDARD BASIN).
 -FOR STANDARD BASIN, BOTTOM WIDTH W, CREST LENGTH CL AND HOLE DIAMETER, HD.
 -FOR NONSTANDARD BASIN, SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN INCLUDING RISER HEIGHT H, NUMBER OF COLUMNS N, HOLE DIAMETER HD AND PIPE DIAMETER D.
- FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
- SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY THAT RELIES ON ON BASINS AS A STORMWATER CONTROL.
- EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3 INCHES AND SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.
- EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
- PIPE SCH 40 OR GREATER SHALL BE USED.
- THE DETAILS SHOWN ON THESE SHEETS PERTAIN TO STANDARD SEDIMENT BASIN(S) FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR EMBANKMENT, STORAGE VOLUME, SPILLWAY, OUTLET, AND OUTLET PROTECTION DETAILS FOR ANY SEDIMENT BASIN(S) THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES.

SEDIMENT BASIN MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SEDIMENT ACCUMULATED IN BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN BMP EFFECTIVENESS. TYPICALLY WHEN SEDIMENT DEPTH REACHES ONE FOOT (I.E., TWO FEET BELOW THE SPILLWAY CREST).
- SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS ACCEPTED BY THE LOCAL JURISDICTION.
- WHEN SEDIMENT BASINS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAILS ADAPTED FROM BOULDER COUNTY, COLORADO)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

NO.	DATE	BY	REVISION DESCRIPTION