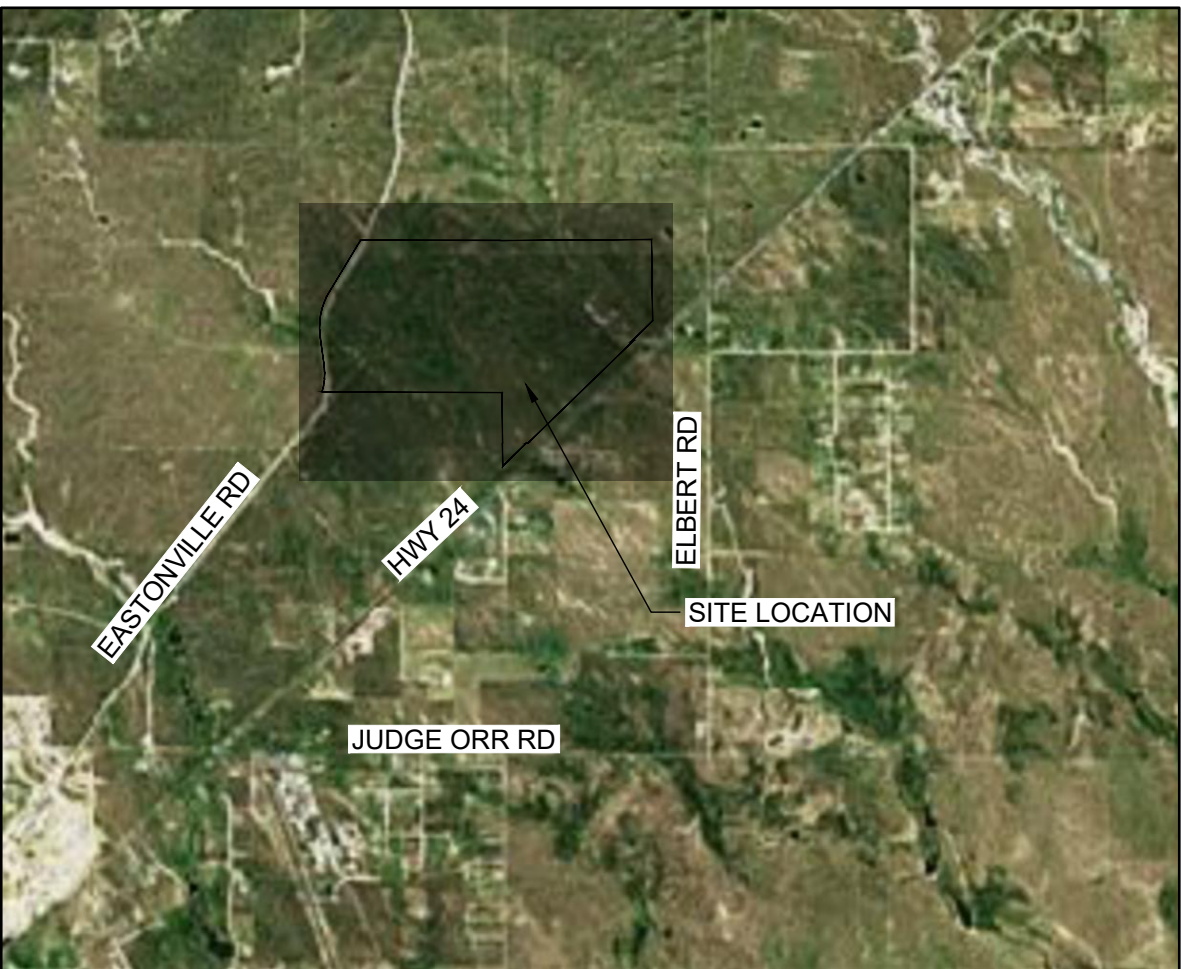


GRANDVIEW RESERVE

Include name of channel section

Add statement that ownership and maintenance is by the Grandview Metro District



VICINITY MAP

SCALE: 1" = 5000'

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:

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 SOUTHEAST 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 SOUTHEAST 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 SOUTHEAST 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 SOUTHEAST QUARTER OF SAID SECTION 28, A DISTANCE OF 591.16 FEET TO THE NORTHEAST CORNER OF SAID SOUTHEAST 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.

GREGORY PANZA PE # 37081

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.

MELODY HOMES

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

COUNTY ENGINEER / ECM ADMINISTRATOR

ENGINEER CONTACT(S):

HR GREEN DEVELOPMENT, LLC  
GREG PANZA, P.E.  
5613 DTC PARKWAY | SUITE 950  
GREENWOOD VILLAGE, CO 80111  
PH: 720-602-4999  
gpanza@hrgreen.com

EL PASO PDC FILE NO.

CDR-228

SHEET INDEX		
SHEET NUMBER	SHEET DESCRIPTION	SHEET TITLE
01	TS1	TITLE SHEET
02	GN1	GENERAL NOTES
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 Valley Grading
15	GR11	TRIBUTARY 2 Valley Grading
16	GR12	TRIBUTARY 2 Valley Grading
17	GR13	TRIBUTARY 2 Valley Grading
18	GR14	TRIBUTARY 2 Bankfull Grading
19	GR15	TRIBUTARY 2 Bankfull Grading
20	GR16	TRIBUTARY 2 Bankfull Grading
21	GR17	TRIBUTARY 2 Bankfull Grading
22	GR18	TRIBUTARY 2 Bankfull Grading
23	GR19	TRIBUTARY 2 Bankfull Grading
24	EC1	INITIAL EROSION CONTROL
25	EC2	INITIAL EROSION CONTROL
26	EC3	INITIAL EROSION CONTROL
27	EC4	FINAL EROSION CONTROL
28	EC5	FINAL EROSION CONTROL
29	EC6	FINAL EROSION CONTROL
30	PP1	DRAINAGE TRIBUTARY 1 PLAN AND PROFILE
31	PP2	DRAINAGE TRIBUTARY 2 PLAN AND PROFILE
32	PP3	DRAINAGE TRIBUTARY 2 PLAN AND PROFILE
33	PP4	DRAINAGE TRIBUTARY 2 PLAN AND PROFILE
34	PP5	DRAINAGE TRIBUTARY 2 PLAN AND PROFILE
35	PP6	DRAINAGE CULVERTS PLAN AND PROFILE
36	PP7	DRAINAGE CULVERT PLAN AND PROFILE
37	CS1	TRIBUTARY 2 CROSS SECTIONS
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39	CS3	TRIBUTARY 2 CROSS SECTIONS
40	DT1	DETAILS
41	DT2	DETAILS
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45	LP1	SEEDING PLAN
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47	LP3	SEEDING PLAN
48	LP4	SEEDING NOTES

SYMBOLS, ABBREVIATIONS, AND LINETYPES LEGEND

	CWA	CONCRETE WASHOUT AREA
	VTC	VEHICLE TRACKING CONTROL
	SSA	STABILIZED STAGING AREA
	LOC	LIMITS OF CONSTRUCTION
	CD	CHECK DAM
	SM	SEEDING AND MULCHING
	RS	ROCK SOCK
		PROPERTY LINE
		EXISTING EASEMENT
		EXISTING GAS LINE
		EXISTING TELEPHONE LINE
		EXISTING FENCE LINE
		EXISTING SECTION LINE
		EXISTING SWALE
		EXISTING OVERHEAD ELECTRIC
		EXISTING TELEPHONE POLE
		EXISTING MAJOR CONTOUR
		EXISTING MINOR CONTOUR
		PROPOSED MAJOR CONTOUR
		PROPOSED MINOR CONTOUR
		FLOW ARROW
		PROPOSED 100-YR FLOODPLAIN
		EXISTING 100-YR FLOODPLAIN
		EXISTING WETLANDS - JURISDICTIONAL
		EXISTING WETLANDS - NONJURISDICTIONAL
		PROPOSED MAINTENANCE TRAIL
	ARV	AIR RELEASE VALVE
	CP	CATHODIC PROTECTION STATION
	STA	MULTI USE EASEMENT
	MUE	APPROXIMATE
	APRX	PROPOSED
	FT	FEET
	DIA	DIAMETER
	LF	LINEAL FEET
	EL	ELEVATION



5613 DTC PARKWAY, SUITE 950 | GREENWOOD VILLAGE, COLORADO 80111

Phone: 720.602.4999 | Toll Free: 713.965.0044 | HRGreen.com



HR GREEN - DENVER  
5613 DTC PARKWAY SUITE 950  
DENVER CO 80111  
PHONE: 720.602.4999  
FAX: 713.965.0044

GRANDVIEW RESERVE  
DR HORTON  
FALCON, COLORADO

CONSTRUCTION DOCUMENTS  
TITLE SHEET

SHEET

TS1

01

DRAWN BY: ACH  
APPROVED: GLP  
CAD DATE: 1/26/2024  
CAD FILE: J:\2020\201662.03\CAD\Drawings\CITITLE SHEET

JOB DATE: 1/23/2024  
JOB NUMBER: 201662.03

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

NO.	DATE	BY	REVISION DESCRIPTION



STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS

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

Previous versions contained Channel Design Parameters Table. Please add back in and address comments from previous reviews.

STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS

- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- A SEPARATE STORMWATER MANAGEMENT PLAN (SMWP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON-SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
- CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
- ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.
- TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
- FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
- COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
- ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF-SITE.
- CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.
- DURING DEWATERING OPERATIONS, UNCONTAMINATED GROUNDWATER MAY BE DISCHARGED ON-SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
- EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
- THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
- NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ON-SITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ON-SITE AND TO PREVENT MATERIALS FROM ENTERING STATE WATERS. ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- A WATER SOURCE SHALL BE AVAILABLE ON-SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY [CTL THOMPSON, JANUARY 6, 2022] AND SHALL BE CONSIDERED A PART OF THESE PLANS.
- AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT  
WATER QUALITY CONTROL DIVISION  
WQCD – PERMITS  
4300 CHERRY CREEK DRIVE SOUTH  
DENVER, CO 80246-1530  
ATTN: PERMITS UNIT

Add these tables back in from previous submittals.

EXISTING FLOWS FOR MAIN STEM (DRAINAGE A)			
STATION	2-YR STORM	5-YR STORM	100-YR STORM
37+13	23 cfs	67 cfs	413 cfs
25+92	25.45 cfs	60.03 cfs	479.80 cfs
15+57	26.45 cfs	60.03 cfs	479.80 cfs

EXISTING FLOWS FOR MAIN STEM TRIBUTARY (DRAINAGE B)			
STATION	2-YR STORM	5-YR STORM	100-YR STORM
45+38	19 cfs	59 cfs	285 cfs
22+99	20.14 cfs	68.95 cfs	390.70 cfs
6+54	22.14 cfs	65.99 cfs	597.42 cfs

FUTURE FLOWS FOR MAIN STEM (DRAINAGE A)			
STATION	2-YR STORM	5-YR STORM	100-YR STORM
37+13	23 cfs	67 cfs	413 cfs
25+92	23 cfs	67 cfs	413 cfs
15+57	27.75 cfs	67.69 cfs	466.95 cfs

FUTURE FLOWS FOR MAIN STEM TRIBUTARY (DRAINAGE B)			
STATION	2-YR STORM	5-YR STORM	100-YR STORM
47+49	19 cfs	59 cfs	285 cfs
36+95	31.72 cfs	60.52 cfs	395.83 cfs
5+54	33.53 cfs	63.16 cfs	553.69 cfs

DRAWN BY: TBI  
APPROVED: GLP  
CAD DATE: 1/26/2024  
CAD FILE: J:\2020\201662.03\CAD\dwgs\C\GENERAL NOTES

JOB DATE: 1/23/2024  
JOB NUMBER: 201662.03

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

NO.	DATE	BY	REVISION DESCRIPTION



HR GREEN - DENVER  
5613 DTC PARKWAY SUITE 950  
DENVER CO 80111  
PHONE: 720.602.4999  
FAX: 713.965.0044

GRANDVIEW RESERVE  
DR HORTON  
FALCON, COLORADO

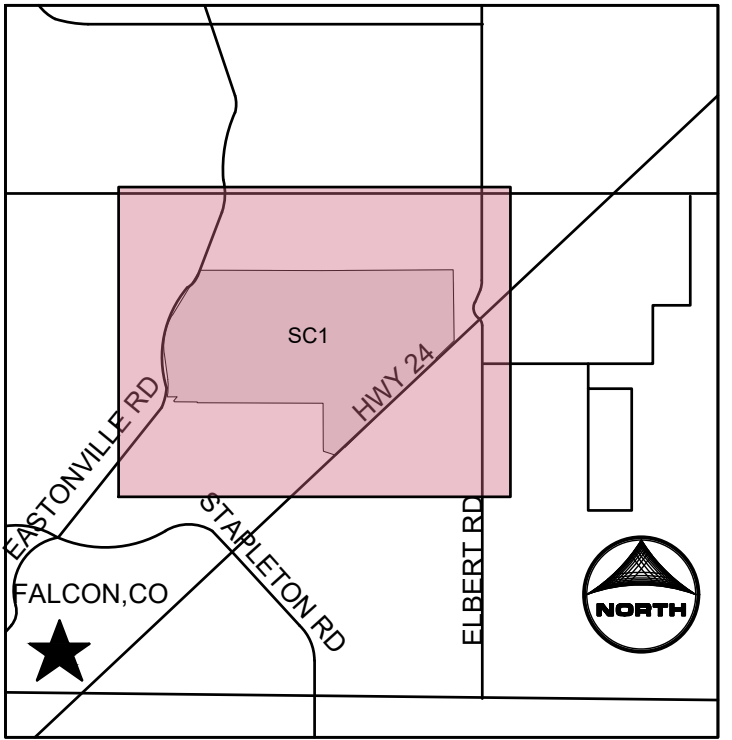
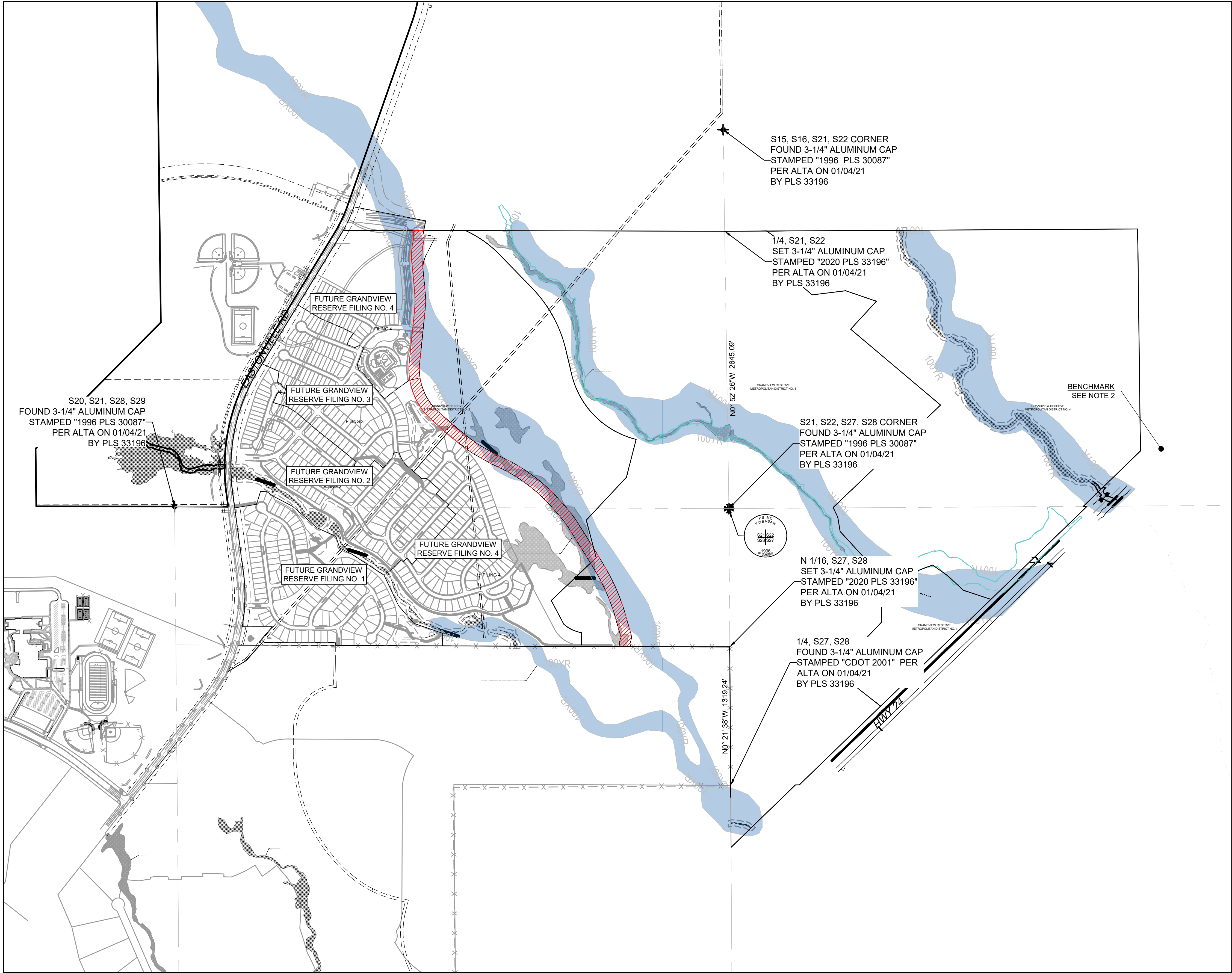
CONSTRUCTION DOCUMENTS  
GENERAL NOTES

SHEET  
GN1

02



HR GREEN vels.xgs;-dh01; Survey\_Control\_Key; x:row=462, xc:design=F1-462.10; xc:row=F1-462.10; xc:design=F2; xc:design=F3; xc:row=F3; xc:design=F4; xc:row=F4; xc:channel; xc:filling=brlys; x:dsign\_562



KEYMAP

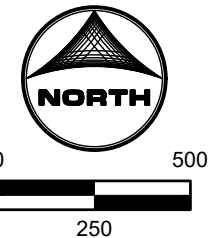
PROJECT LEGEND:

— PROPERTY LINE

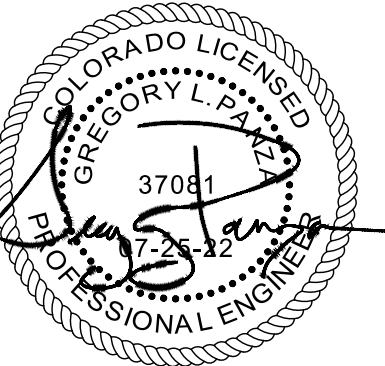
- - - SECTION LINE

✱ 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.
  2. 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



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



DRAWN BY: ACH  
APPROVED: GLP  
CAD DATE: 1/26/2024  
CAD FILE: J:\2020\201662.03\CAD\Draws\C\Survey\_Control\_Plan

JOB DATE: 1/25/2024  
JOB NUMBER: 201662.03

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NO.	DATE	BY	REVISION DESCRIPTION



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5613 DTC PARKWAY SUITE 950  
DENVER CO 80111  
PHONE: 720.602.4999  
FAX: 713.965.0044

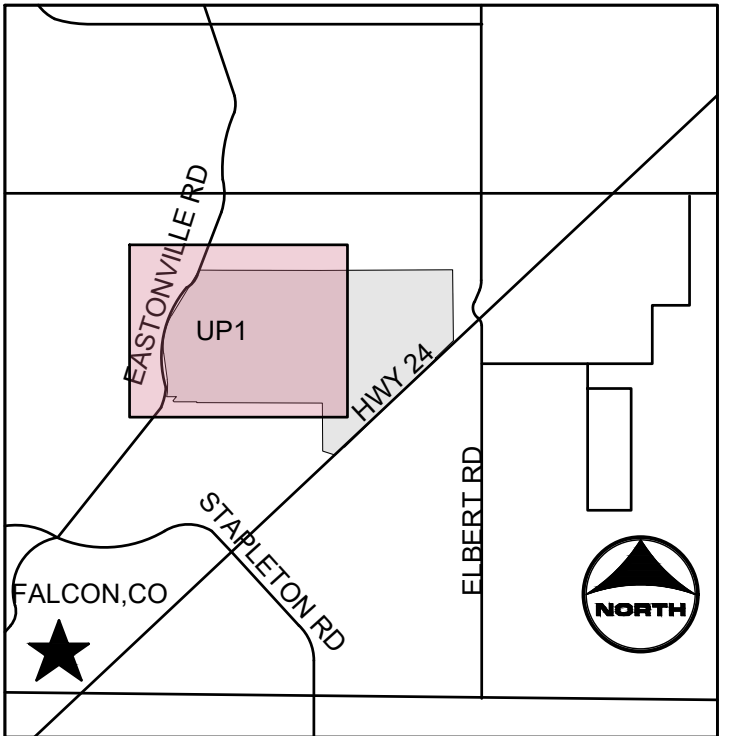
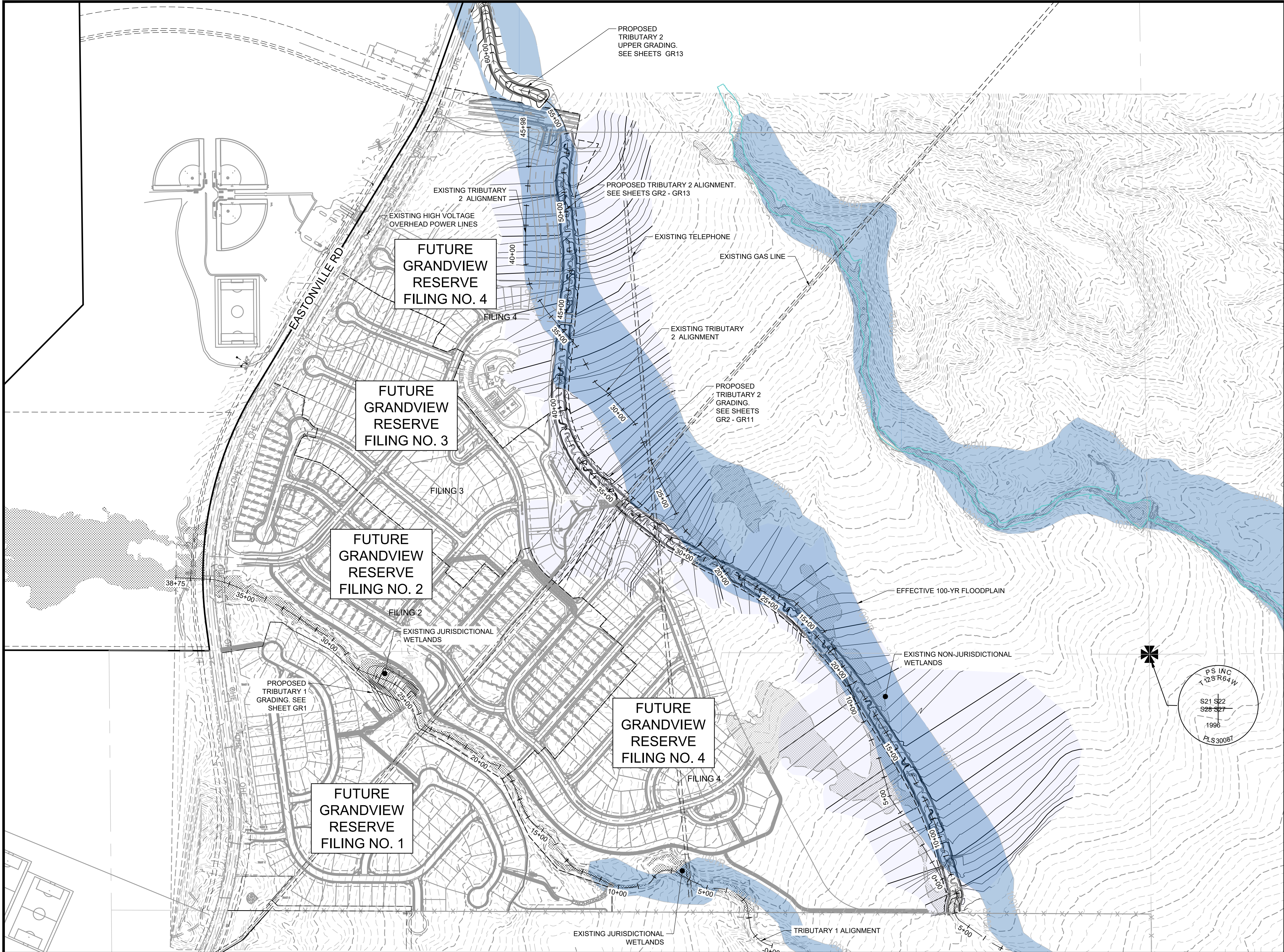
GRANDVIEW RESERVE  
DR HORTON  
FALCON, COLORADO

CONSTRUCTION DOCUMENTS  
SURVEY CONTROL PLAN

SHEET  
SC1

03

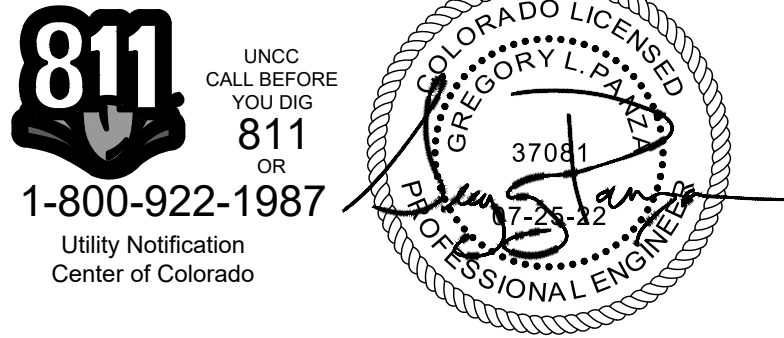




PROJECT LEGEND:	
	PROPERTY LINE
	EXISTING EASEMENT
	EXISTING GAS LINE
	EXISTING TELEPHONE LINE
	EXISTING FENCE LINE
	EXISTING SECTION LINE
	EXISTING SWALE
	EXISTING OVERHEAD ELECTRIC
	EXISTING TELEPHONE POLE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED 100-YR FLOODPLAIN
	EXISTING 100-YR FLOODPLAIN
	EXISTING WETLANDS - JURISDICTIONAL
	EXISTING WETLANDS - NONJURISDICTIONAL

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.
2. 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



DRAWN BY: TBI JOB DATE: 5/22/2023 BAR IS ONE INCH ON OFFICIAL DRAWINGS.  
APPROVED: GLP JOB NUMBER: 201662.03 0" IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.  
CAD DATE: 1/26/2024  
CAD FILE: J:\2020\201662.03\CAD\Drawings\CIOUP

NO.	DATE	BY	REVISION DESCRIPTION

**HRGreen**  
HR GREEN - DENVER  
5613 DTC PARKWAY SUITE 950  
DENVER CO 80111  
PHONE: 720.602.4999  
FAX: 713.965.0044

**GRANDVIEW RESERVE**  
**DR HORTON**  
FALCON, COLORADO

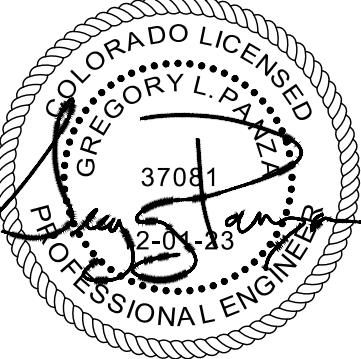
CONSTRUCTION DOCUMENTS  
OVERALL UTILITY PLAN

SHEET  
UP1  
04



**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 1986", 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: 8686.33





(4) 8' X 4' CONCRETE BOX CULVERTS 53' LONG WITH 45 DEGREE WING WALLS (PUBLIC). REFER TO PP6 FOR PLAN AND PROFILE

MATCH LINE STA. 8+50 SEE SHEET GR3

100.00' TRACT SA

VALLEY CHANNEL CENTERLINE

BANKFULL CHANNEL CENTERLINE

PROPOSED 15.00' MAINTENANCE TRAIL SEE DT2

PROPOSED 100 YEAR FLOODPLAIN

LIMITS OF CONSTRUCTION

LIMITS OF DISTURBANCE

MATCH LINE SEE SHEET GR4

Update contours to tie into existing grade

Call out offsite grading and necessary easements

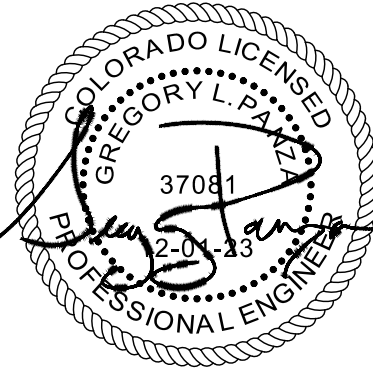
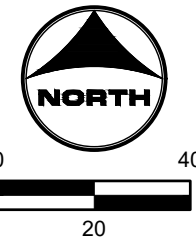
BEGIN LIMITS OF CONSTRUCTION  
STA 5+77.43  
N: 1419144.80  
E: 3268530.87

TAG #C4 START  
STA 5+35.84  
N: 1419117.23'  
E: 3268561.35

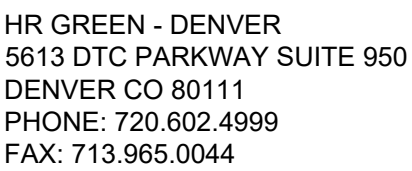
TRIBUTARY 2 UPSTREAM				
LINE #/ CURVE#	LENGTH	RADIUS	LNE/CHORD DIRECTION	CHORD LENGTH
C4	55.21	90.32	N4° 03' 37.62"E	54.35
L4	19.06		N15° 57' 12.45"E	
C5	30.10	64.61	N3° 11' 43.90"W	29.83
L5	249.66		N16° 01' 39.50"W	

PROJECT LEGEND:

- 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 1986", BEING APPROPRIATELY MARKED, AND BEING MONUMENTED AT THE NORTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CAP STAMPED "PS INC PLS 30087 1986", BEING APPROPRIATELY MARKED, BEING ASSUMED TO BEAR NORTH 00 DEGREES 52 MINUTES 26 SECONDS WEST, A DISTANCE OF 5290.17 FEET.
  2. **BENCHMARK:**  
DESIGNATION = F 24  
PID = JK0240  
DESCRIPTION = DISK ON TOP OF CONCRETE MOUNTMENT  
CONTROL POINT COORDINATE SYSTEM:  
NAVD88  
NORTHING: 1421049.80  
EASTING: 3273631.55  
ELEVATION: 8686.33



NO.	DATE	BY	REVISION	DESCRIPTION



GRANDVIEW RESERVE  
DR HORTON  
FALCON, COLORADO

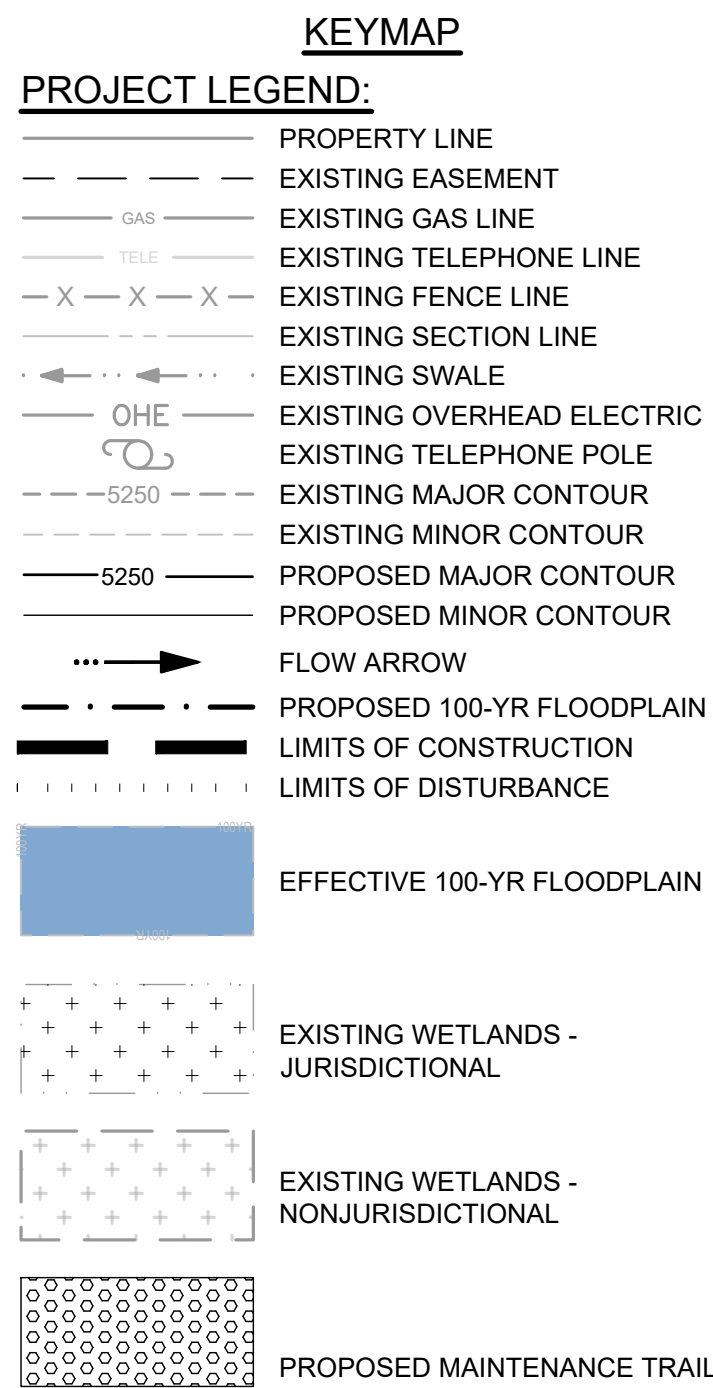
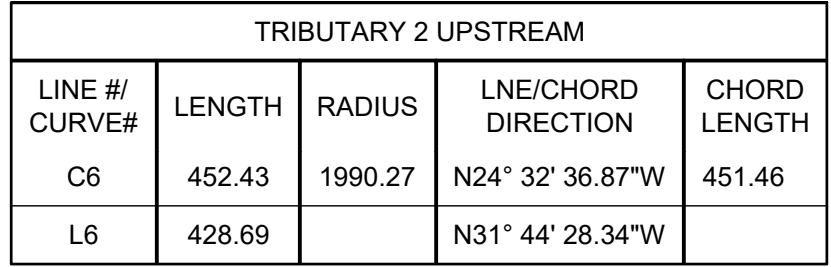
CONSTRUCTION DOCUMENTS

TRIBUTARY 2 VALLEY GRADING

SHEET  
GR2

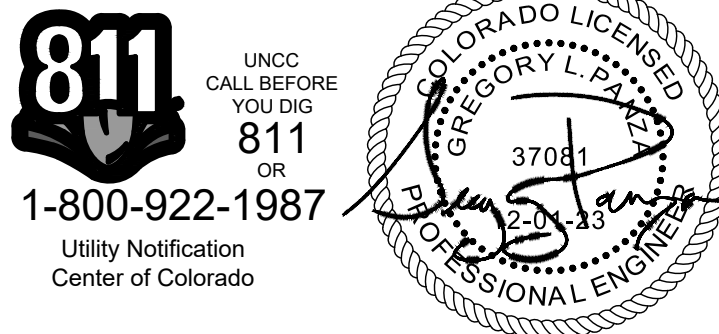
06





**NOTES:**

- BASIS OF BEARINGS:** THE EAST LINE OF SECTION 21, BEING MONUMENTED AT THE SOUTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CIP STAMPED "PS INC PLS 30087 1996", BEING APPROPRIATELY MARKED, AND BEING MONUMENTED AT THE NORTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CIP 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:  
NAD83  
NORTHING: 1421049.80  
EASTING: 3273631.55  
ELEVATION: 6866.33



DRAWN BY: ACH	JOB DATE: 1/25/2024	BAR IS ONE INCH ON OFFICIAL DRAWINGS. 0 [REDACTED] 1"
APPROVED: GLP	JOB NUMBER: 201662.03	
CAD DATE: 1/26/2024		IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
CAD FILE: J:\2020\201662.03\CAD\DWG\CI\GRADING		

NO.	DATE	BY	REVISION DESCRIPTION



HR GREEN - DENVER  
5613 DTC PARKWAY SUITE 950  
DENVER CO 80111  
PHONE: 720.602.4999  
FAX: 713.965.0044

GRANDVIEW RESERVE  
DR HORTON  
FALCON, COLORADO

CONSTRUCTION DOCUMENTS  
TRIBUTARY 2 VALLEY GRADING

SHEET  
GR3

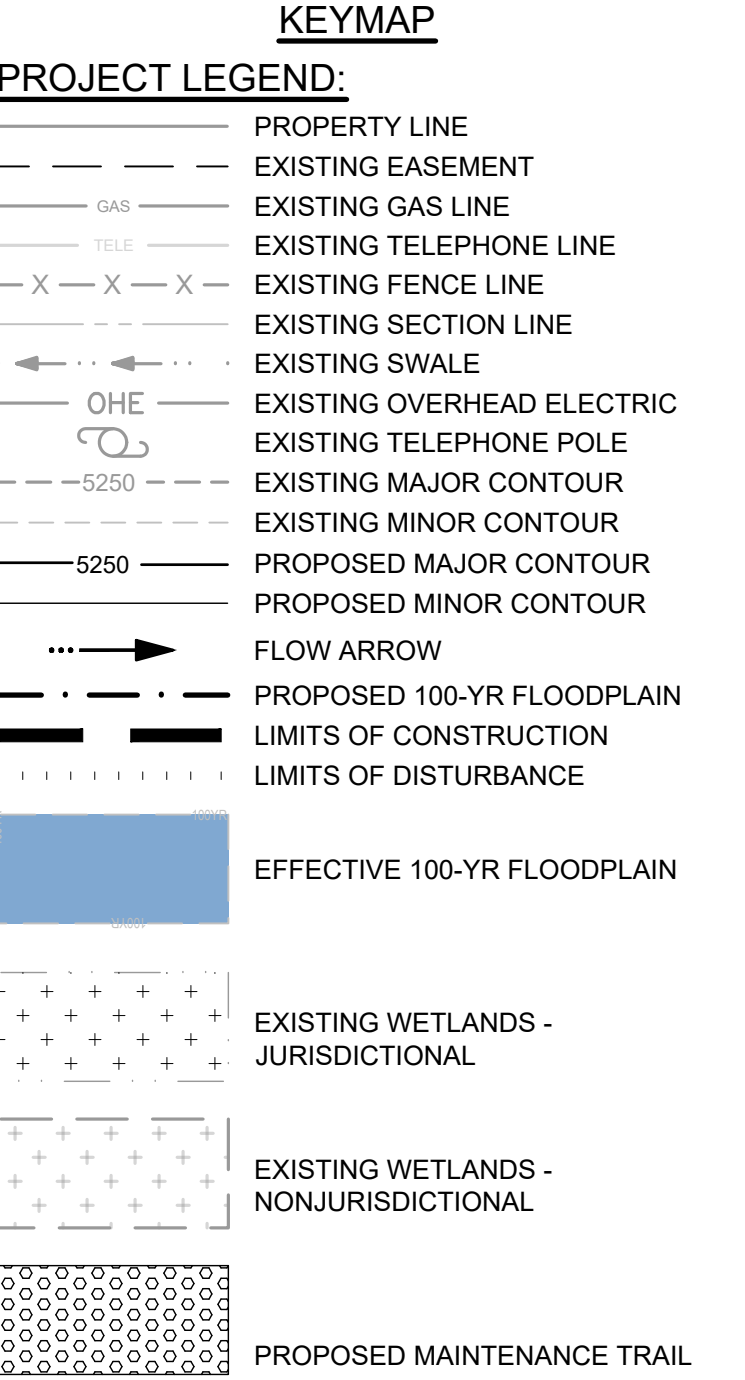
07



Topographic map showing a proposed road alignment. The map includes contour lines with elevations ranging from 6911 to 6933. A dashed line represents the proposed road alignment, and a solid line represents the limits of construction. A blue shaded area at the bottom indicates the 100-year flood zone. Match lines are present on the left and bottom edges, indicating connections to other sheets (GR3).

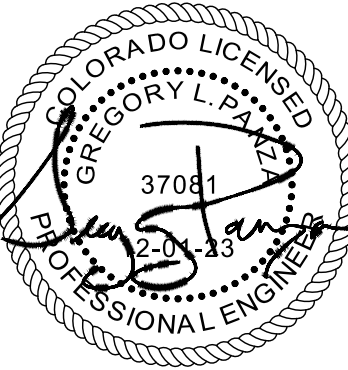
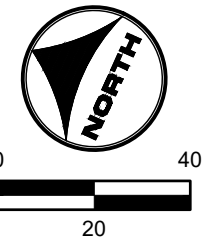
Key features and labels:

- Match Line (Left):** MATCH LINE SEE SHEET GR3
- Match Line (Bottom):** MATCH LINE SEE SHEET GR3
- Limits of Construction:** Indicated by a solid line.
- Limits of Disturbance:** Indicated by a dashed line.
- 100YR Flood Zone:** Shaded blue area at the bottom.
- Contour Lines:** Labeled with elevations such as 6933, 6932, 6931, 6930, 6929, 6928, 6927, 6926, 6925, 6924, 6923, 6922, 6921, 6920, 6919, 6918, 6917, 6916, 6915, 6914, 6913, 6912, 6911.



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.
2. **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



DRAWN BY: ACH	JOB DATE: 1/25/2024	BAR IS ONE INCH ON OFFICIAL DRAWINGS.
APPROVED: GLP	JOB NUMBER: 201662.03	0 [REDACTED] 1"
CAD DATE: 1/26/2024		IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
CAD FILE: J:\2020\201662.03\CAD\DWG\IC\GRADING		

NO.	DATE	BY	REVISION DESCRIPTION



HR GREEN - DENVER  
5613 DTC PARKWAY SUITE 950  
DENVER CO 80111  
PHONE: 720.602.4999  
FAX: 713.965.0044

GRANDVIEW RESERVE  
DR HORTON  
FALCON, COLORADO

CONSTRUCTION DOCUMENTS

TRIBUTARY 2 VALLEY GRADING

SHEET  
GR4 08

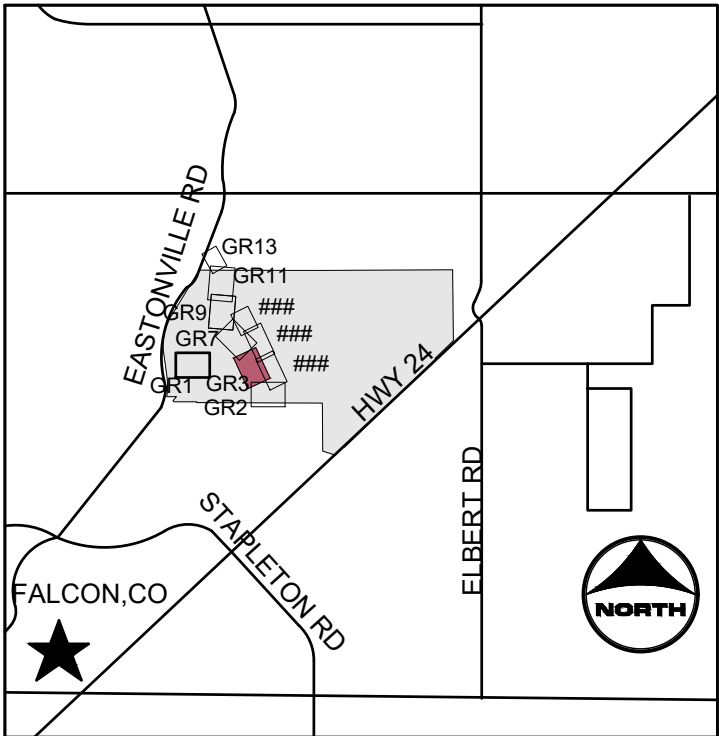
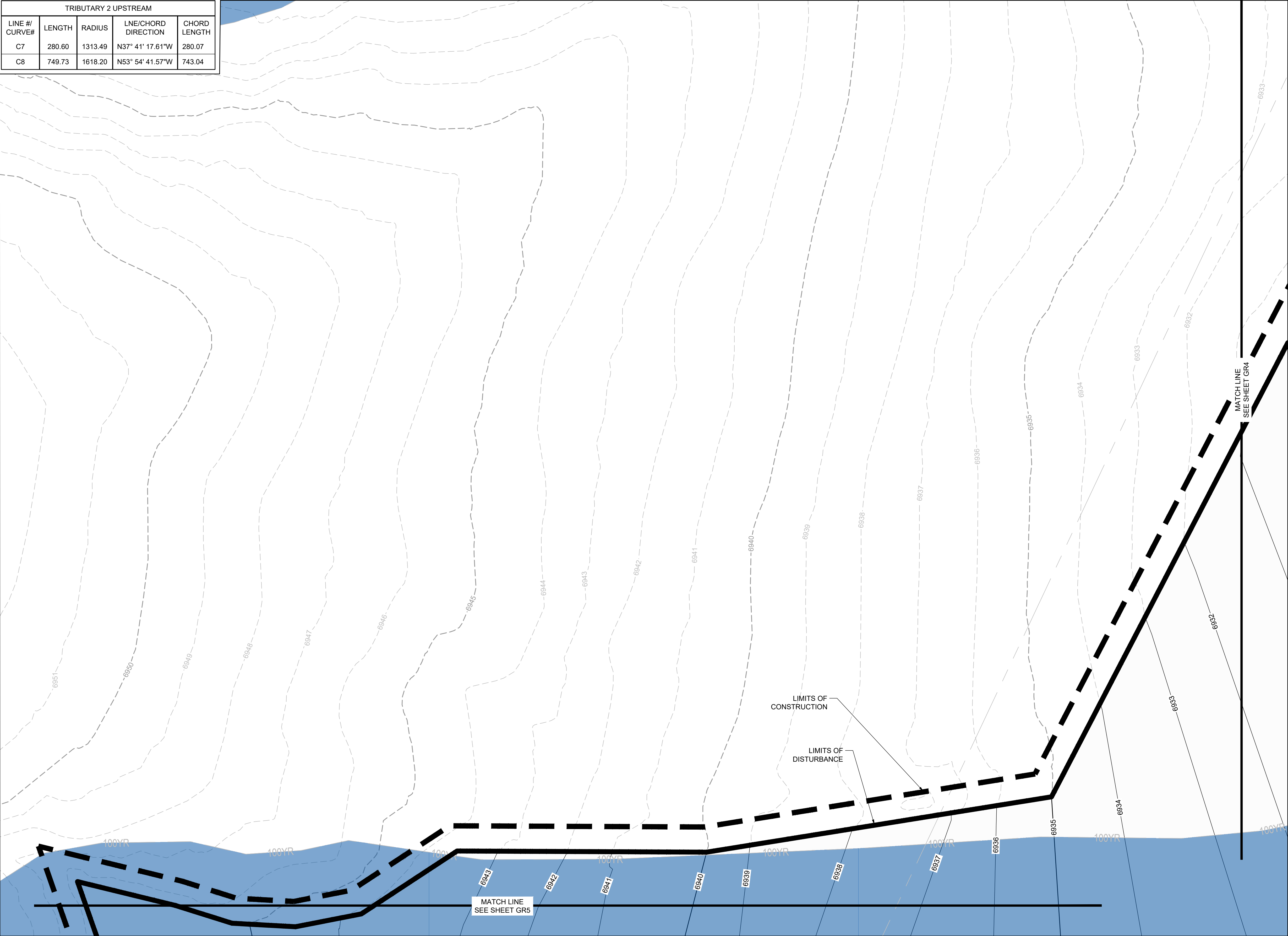






HR GREEN (xref: xgl: -dht01: GRADING KEY; xvdgn: 682; xc-dgn: 682; 10; xc-row: F1-682; 10; xc-dgn: F1-682; 10; xc-dgn: F2; xvdgn: 682; xc-dgn: F2; xc-dgn: F3; xc-row: F3; xc-dgn: F3; xc-dgn: F4; 01-XC-INITIAL-EC; xc-row: PH2; xc-dgn: PH2; xc-dgn: PH3; 01-XC-channel; 01\_XV-Row; 01-XC-PP; 100YR\_PP\_DELINEATION

TRIBUTARY 2 UPSTREAM				
LINE #/ CURVE#	LENGTH	RADIUS	LNE/CHORD DIRECTION	CHORD LENGTH
C7	280.60	1313.49	N37° 41' 17.61"W	280.07
C8	749.73	1618.20	N53° 54' 41.57"W	743.04



**PROJECT LEGEND:**

- PROPERTY LINE
- EXISTING EASEMENT
- GAS
- EXISTING GAS LINE
- TELE
- EXISTING TELEPHONE LINE
- X - X - X
- EXISTING FENCE LINE
- EXISTING SECTION LINE
- OHE
- EXISTING OVERHEAD ELECTRIC
- EXISTING TELEPHONE POLE
- 5250
- EXISTING MAJOR CONTOUR
- 5250
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- FLOW ARROW
- PROPOSED 100-YR FLOODPLAIN
- LIMITS OF CONSTRUCTION
- LIMITS OF DISTURBANCE
- EFFECTIVE 100-YR FLOODPLAIN
- EXISTING WETLANDS - JURISDICTIONAL
- EXISTING WETLANDS - NON-JURISDICTIONAL
- 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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811 OR 1-800-922-1987  
Utility Notification Center of Colorado

**PROFESSIONAL ENGINEER**  
GREGORY L. PARKS  
37081  
2-04-13

DRAWN BY:	TBI	JOB DATE:	1/25/2024
APPROVED:	GLP	JOB NUMBER:	201662.03
CAD DATE:	1/26/2024		
CAD FILE:	J:120201201662.03\CAD\dwgs\C\GRADING		

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0 1"  
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NO.	DATE	BY	REVISION DESCRIPTION



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5613 DTC PARKWAY SUITE 950  
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PHONE: 720.602.4999  
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**GRANDVIEW RESERVE**  
**DR HORTON**  
FALCON, COLORADO

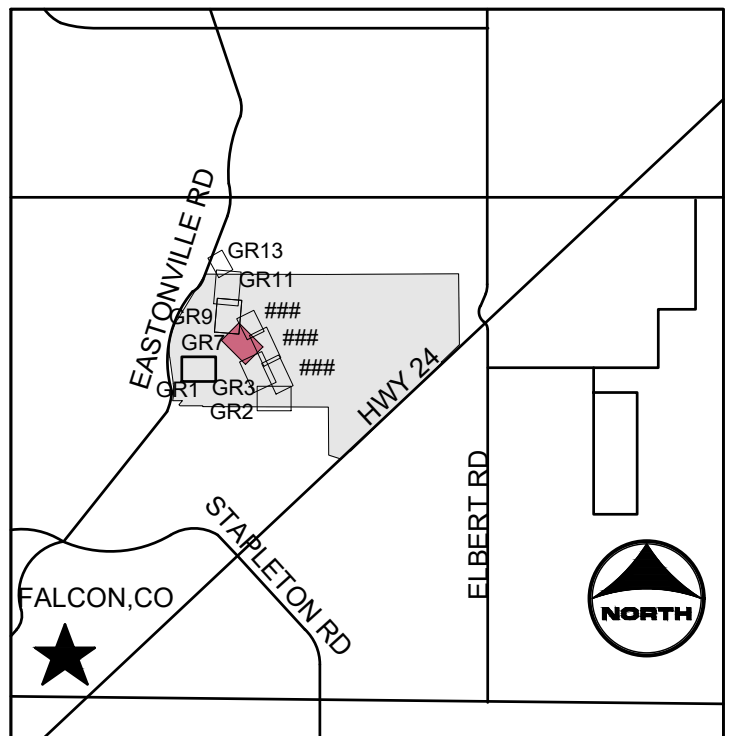
CONSTRUCTION DOCUMENTS  
TRIBUTARY 2 VALLEY GRADING

SHEET  
GR6

10


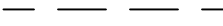








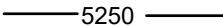







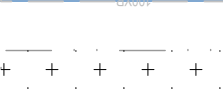
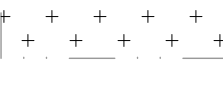



TRIBUTARY 2 UPSTREAM				
LINE #/ CURVE#	LENGTH	RADIUS	LNE/CHORD DIRECTION	CHORD LENGTH
L7	217.60		N60° 22' 39.34"W	
L8	250.42		N53° 13' 21.07"W	
L9	224.94		N47° 47' 51.42"W	



## KEYMAP

## PROJECT LEGEND

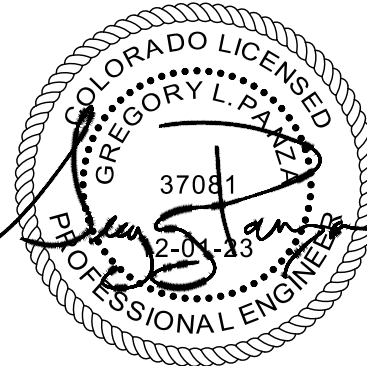
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|---|---------------------------------------|
|    | PROPERTY LINE                         |
|    | EXISTING EASEMENT                     |
|    | EXISTING GAS LINE                     |
|    | EXISTING TELEPHONE LINE               |
|    | EXISTING FENCE LINE                   |
|    | EXISTING SECTION LINE                 |
|    | EXISTING SWALE                        |
|    | EXISTING OVERHEAD ELECTRIC            |
|    | EXISTING TELEPHONE POLE               |
|    | EXISTING MAJOR CONTOUR                |
|    | EXISTING MINOR CONTOUR                |
|    | PROPOSED MAJOR CONTOUR                |
|    | PROPOSED MINOR CONTOUR                |
|    | FLOW ARROW                            |
|    | PROPOSED 100-YR FLOODPLAIN            |
|    | LIMITS OF CONSTRUCTION                |
|    | LIMITS OF DISTURBANCE                 |
|    | EFFECTIVE 100-YR FLOODPLAIN           |
|    | EXISTING WETLANDS - JURISDICTIONAL    |
|   | EXISTING WETLANDS - NONJURISDICTIONAL |
|  | 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.
2. **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



1-800-922-1987  
Utility Notification  
Center of Colorado



DRAWN BY:	ACH	JOB DATE:	1/25/2024
APPROVED:	GLP	JOB NUMBER:	201662.03
CAD DATE:	1/26/2024		
CAD FILE:	J:\2020\201662.03\CAD\Drawgs\C\GRADING		

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

NO.	DATE	BY	REVISION DESCRIPTION



HR GREEN - DENVER  
5613 DTC PARKWAY SUITE 950  
DENVER CO 80111  
PHONE: 720.602.4999  
FAX: 713.965.0044

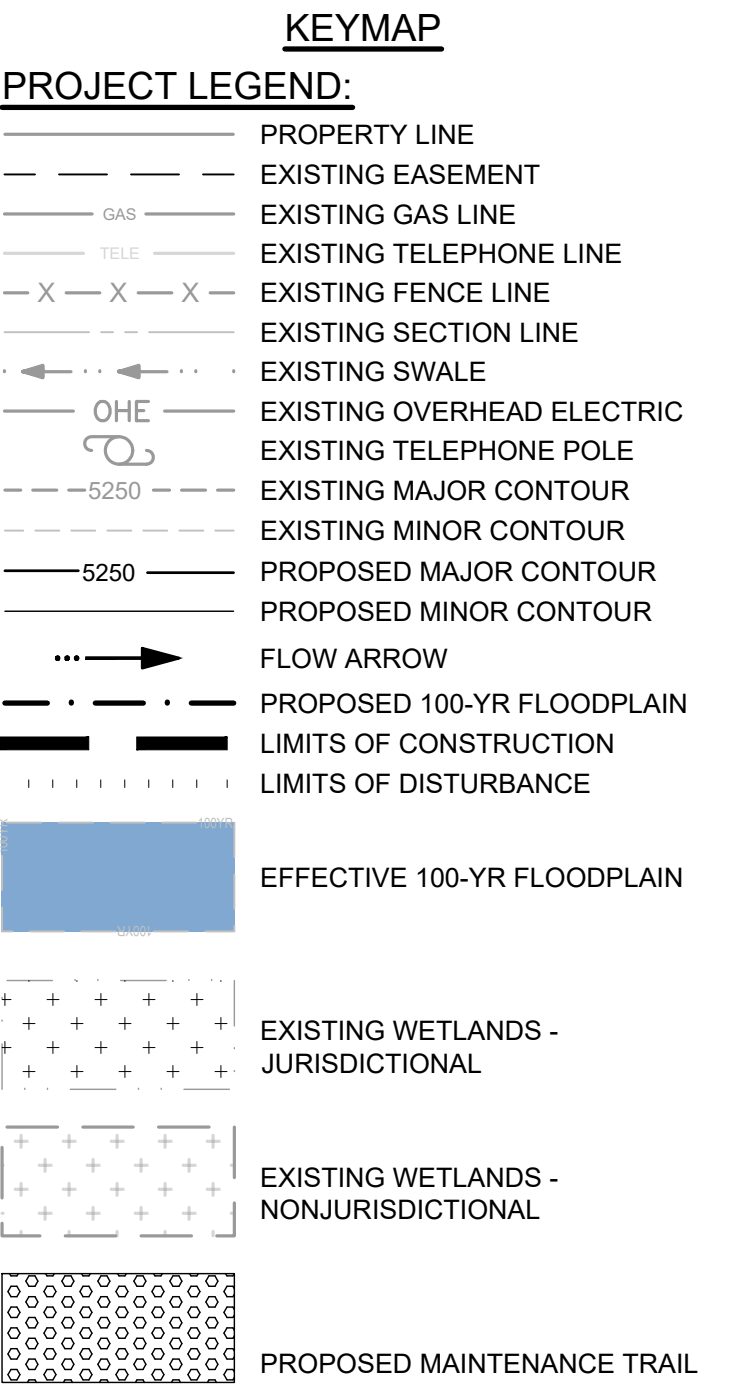
GRANDVIEW RESERVE  
DR HORTON  
FALCON, COLORADO

CONSTRUCTION DOCUMENTS  
TRIBUTARY 2 VALLEY GRADING

SHEET  
GR7

11

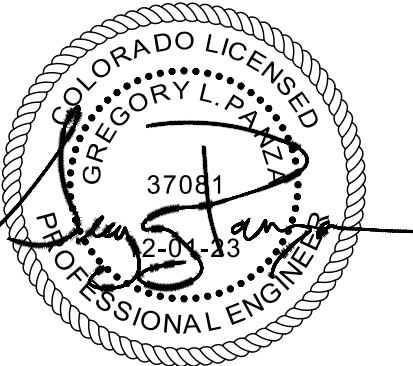




- NOTES:**
- 1. BASIS OF BEARINGS:** THE EAST LINE OF SECTION 21, BEING MONUMENTED AT THE SOUTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CAP STAMPED "PS INC PLS 30087 1996" BEING APPROPRIATELY MARKED, AND BEING MONUMENTED AT THE NORTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CAP STAMPED "PS INC PLS 30087 1996" BEING APPROPRIATELY MARKED, BEING ASSUMED TO BEAR NORTH 00 DEGREES 52 MINUTES 26 SECONDS WEST, A DISTANCE OF 5290.17 FEET.

**2. BENCHMARK:**

DESIGNATION = F 24  
PID = JK0240  
DESCRIPTION = DISK ON TOP OF CONCRETE MONUMENT  
CONTROL POINT COORDINATE SYSTEM:  
NAD83  
NORTHING: 1421049.80  
EASTING: 3273631.55  
ELEVATION: 8666.33



NO.	DATE	BY	REVISION DESCRIPTION

HR GREEN - DENVER  
5613 DTC PARKWAY SUITE 950  
DENVER CO 80111  
PHONE: 720.602.4999  
FAX: 713.965.0044

GRANDVIEW RESERVE  
DR HORTON  
FALCON, COLORADO

CONSTRUCTION DOCUMENTS

TRIBUTARY 2 VALLEY GRADING

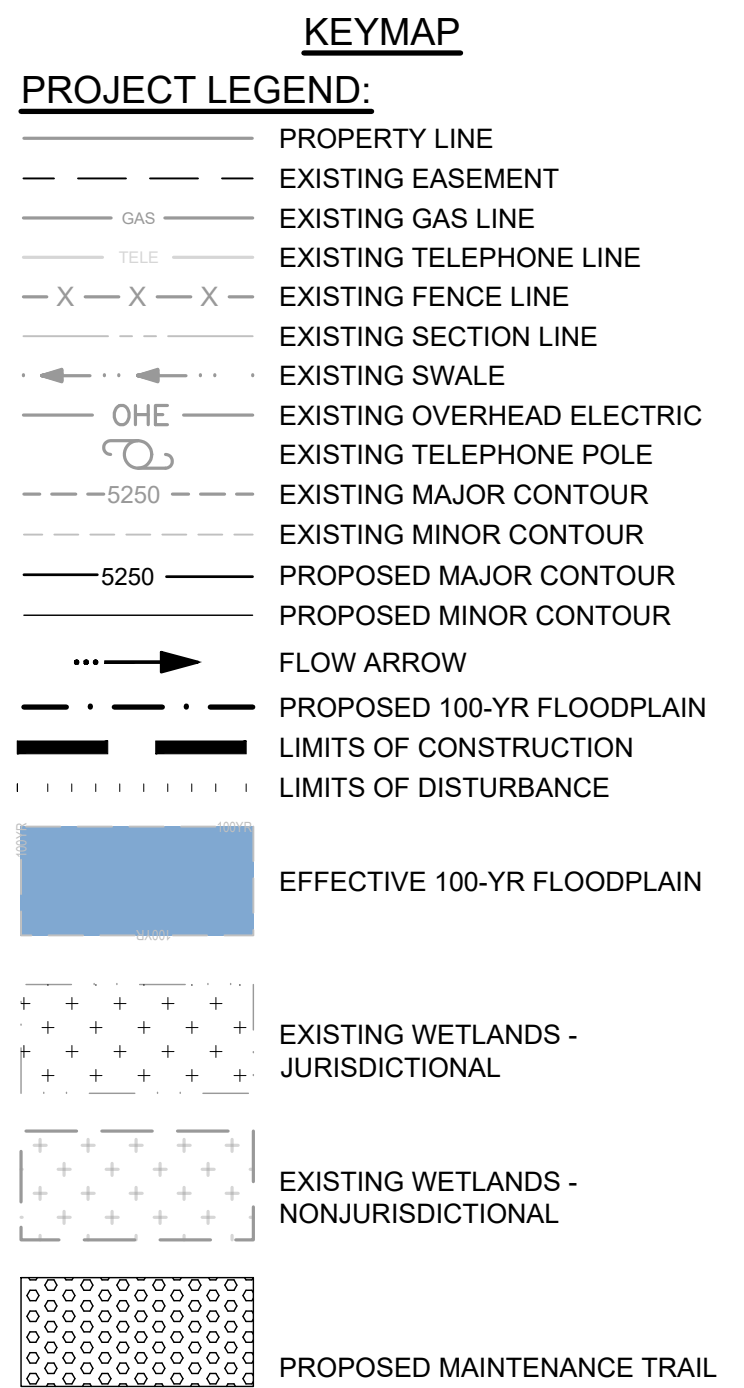
SHEET  
GR8

12



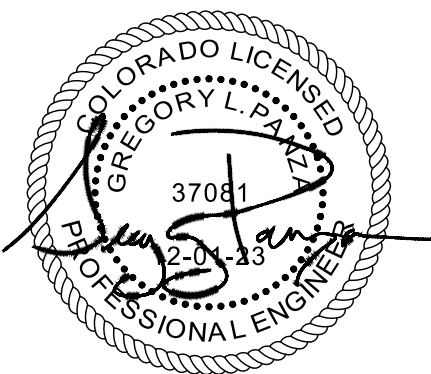







**NOTES:**

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.
2. **BENCHMARK:**  
DESIGNATION = F 24  
PID = JK0240  
DESCRIPTION = DISK ON TOP OF CONCRETE MONUMENT  
CONTROL POINT COORDINATE SYSTEM:  
NAD83  
NORTHING: 1421049.80  
EASTING: 3273631.55  
ELEVATION: 6866.33



DRAWN BY: ACH JOB DATE: 1/25/2024 BAR IS ONE INCH ON  
APPROVED: GLP JOB NUMBER: 201662.03 OFFICIAL DRAWINGS.  
0  1"  
CAD DATE: 1/26/2024 IF NOT ONE INCH,  
CAD FILE: J:\2020\201662.03\CAD\DWG\G\C\GRADING ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	REVISION DESCRIPTION



HR GREEN - DENVER  
5613 DTC PARKWAY SUITE 950  
DENVER CO 80111  
PHONE: 720.602.4999  
FAX: 713.965.0044

**GRANDVIEW RESERVE**  
**DR HORTON**  
FALCON, COLORADO

CONSTRUCTION DOCUMENTS

TRIBUTARY 2 VALLEY GRADING

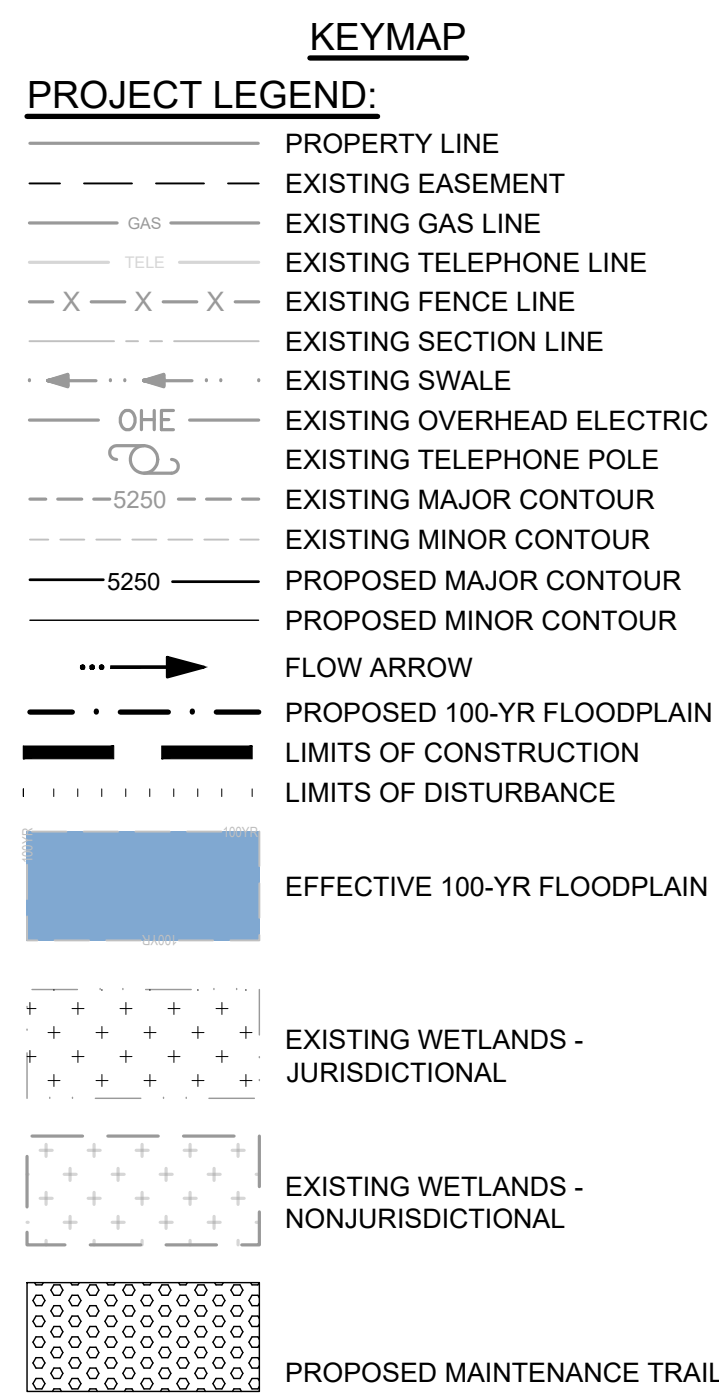
SHEET  
GR10

14

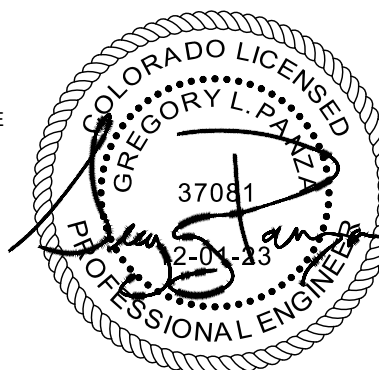
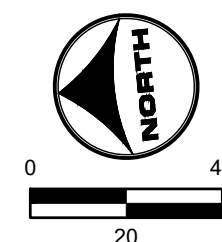








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DESIGNATION = F 24  
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CONTROL POINT COORDINATE SYSTEM:  
NAD83  
NORTHING: 1421049.80  
EASTING: 3273631.55  
ELEVATION: 6866.33



DRAWN BY: ACH JOB DATE: 1/25/2024 BAR IS ONE INCH ON  
APPROVED: GLP JOB NUMBER: 201662.03 OFFICIAL DRAWINGS.  
0 [REDACTED] 1"  
CAD DATE: 1/26/2024 IF NOT ONE INCH,  
CAD FILE: J:\2020\201662.03\CAD\DWGS\C\GRADING ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	REVISION DESCRIPTION



HR GREEN - DENVER  
5613 DTC PARKWAY SUITE 950  
DENVER CO 80111  
PHONE: 720.602.4999  
FAX: 713.965.0044

GRANDVIEW RESERVE  
DR HORTON  
FALCON, COLORADO

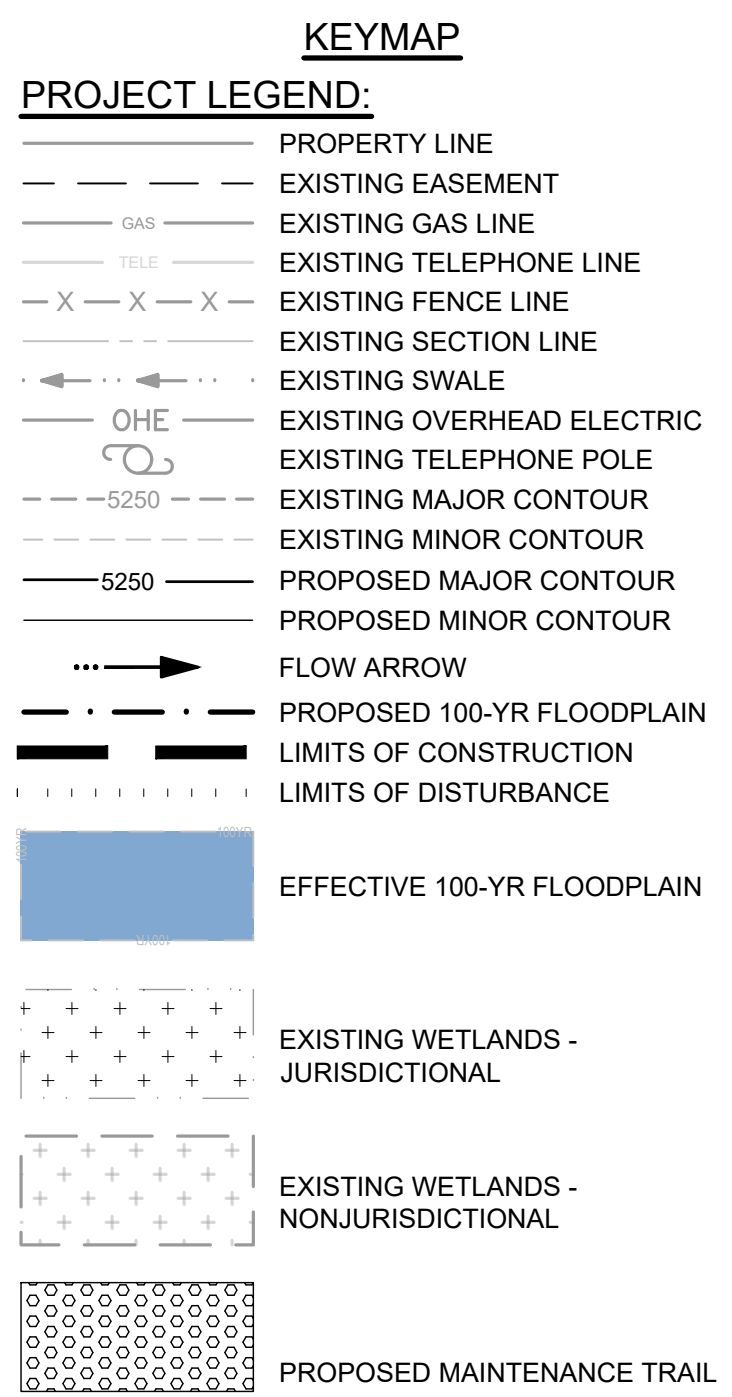
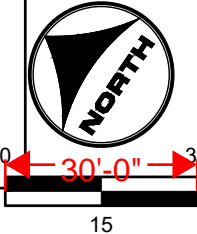
CONSTRUCTION DOCUMENTS  
TRIBUTARY 2 VALLEY GRADING

SHEET  
GR12

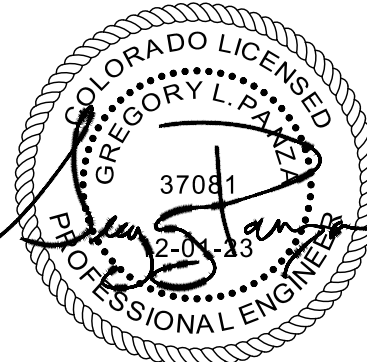
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HR GREEN Xrefs: xat-1:dh01 GRADING KEY: xv-dsbn:662 10: xc-row:F-462 10: xc-row:F1-462 10: xc-dsbn:F1-462 10: xc-dsbn:F2 xv-ult 662 xv-row:F62 xc-dsbn:F3 xc-row:F4 01:XC-INITIAL\_EC: xc-row:PH2 xc-dsbn:PH2 xc-dsbn:PH3 01:XC-channel: 01 XV-Row 01:XC-PR 100RV FP DEFINATION



- 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 MOUND  
CONTROL POINT COORDINATE SYSTEM:  
NAD83  
NORTHING: 1421049.80  
EASTING: 3273631.55  
ELEVATION: 6866.33



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0  1"  
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ADJUST SCALE ACCORDINGLY



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DENVER CO 80111  
PHONE: 720.602.4999  
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CONSTRUCTION DOCUMENTS  
TRIBUTARY 2 VALLEY GRADING

SHEET  
GR13

17



MATCH LINE STA. 9+00  
SEE SHEET GR15

(4) 8' X 4' CONCRETE  
BOX CULVERTS 53'  
LONG WITH 45  
DEGREE WING  
WALLS (PUBLIC).  
REFER TO PP6 FOR  
PLAN AND PROFILE

100.00'  
TRACT SA

BANKFULL CHANNEL  
CENTERLINE

PROPOSED 15.00'  
MAINTENANCE TRAIL  
SEE DT2

PROPOSED 100 YEAR FLOODPLAIN

BEGIN TAG #C17  
STA 0+00.00  
N: 1419164.27  
E: 3268521.94

TRIBUTARY 2 UPSTREAM				
LINE #/ CURVE#	LENGTH	RADIUS	LNE/CHORD DIRECTION	CHORD LENGTH
C17	23.57	41.88	N4° 01' 38.63"W	23.26
C18	10.83	12.19	N35° 29' 11.94"E	10.47
C19	18.75	8.48	N6° 39' 51.93"W	15.16
C20	34.91	14.90	N2° 05' 18.09"W	27.46
C21	26.77	22.42	N48° 21' 42.40"E	25.21
C22	19.16	10.32	N33° 07' 20.38"W	16.53
L42	7.09		N87° 12' 45.01"W	
C23	11.33	16.00	N66° 56' 06.46"W	11.09
L43	6.19		N46° 39' 27.92"W	
C24	21.24	10.00	N14° 10' 45.83"E	17.46
L44	8.71		N75° 00' 59.59"E	
C25	29.86	10.00	N10° 32' 25.13"W	19.94
L45	8.42		S83° 54' 10.16"W	
C26	28.24	10.00	N15° 11' 40.40"W	19.75
L46	10.54		N65° 42' 26.88"E	
C27	14.48	10.00	N24° 13' 15.71"E	13.25
L47	9.11		N17° 15' 52.57"W	
C28	12.97	10.00	N54° 25' 30.93"W	12.08
L48	9.22		S88° 24' 49.50"W	
C29	11.31	10.00	N59° 11' 40.79"W	10.71
L49	7.94		N26° 48' 09.19"W	
C30	28.58	20.00	N14° 08' 18.80"E	26.21
L50	3.36		N55° 30' 24.81"E	
C31	20.44	10.00	N6° 43' 32.42"W	17.06

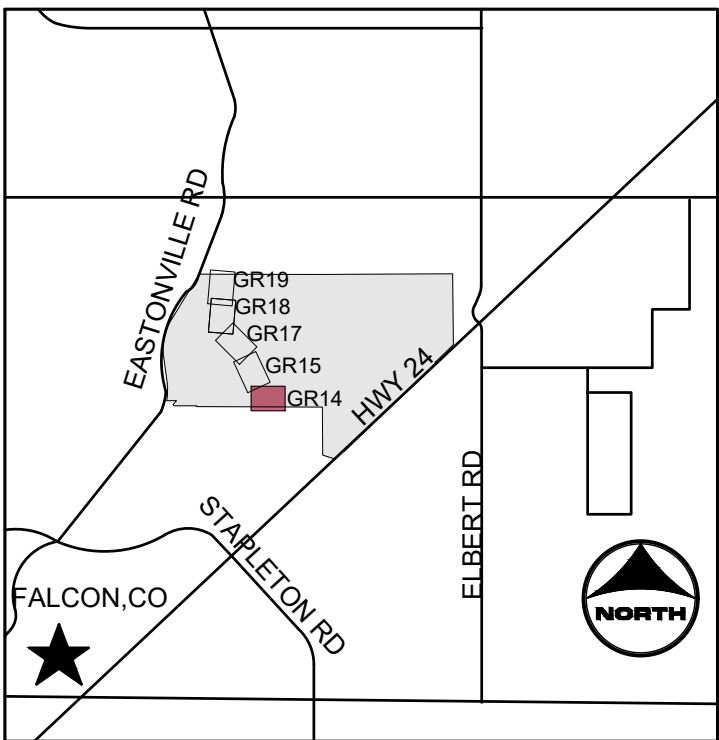
TRIBUTARY 2 UPSTREAM				
LINE #/ CURVE#	LENGTH	RADIUS	LNE/CHORD DIRECTION	CHORD LENGTH
L51	11.71		N65° 17' 30.65"W	
C32	15.23	25.00	N47° 50' 29.17"W	14.99
L52	6.03		N30° 23' 28.85"W	
C33	12.18	10.00	N4° 29' 17.20"E	11.44
L53	7.66		N39° 22' 04.79"E	
C34	22.24	10.00	N24° 21' 07.78"W	17.93
L54	5.78		N88° 04' 22.61"W	
C35	26.11	10.00	N13° 16' 10.36"W	19.30
L55	0.40		N61° 32' 01.88"E	
C36	14.77	10.00	N19° 13' 09.98"E	13.46
L56	18.25		N23° 05' 41.91"W	
C37	12.71	127.22	N22° 15' 51.60"W	12.70
L153	33.80		N20° 14' 03.60"W	
C38	6.71	16.01	N32° 13' 50.55"W	6.66
L57	18.86		N44° 13' 37.50"W	
C39	10.73	10.00	N5° 27' 34.38"W	10.22
L58	23.47		N27° 00' 01.64"E	
C40	25.75	10.00	N35° 37' 42.88"W	19.20
L59	9.08		S70° 36' 58.29"W	
C41	14.66	10.00	N67° 23' 27.35"W	13.38
L154	17.98		N25° 23' 53.00"W	
C42	14.06	10.00	N14° 53' 08.47"E	12.93
L155	9.90		N55° 10' 11.87"E	
C43	24.93	10.00	N16° 14' 41.78"W	18.96

TRIBUTARY 2 UPSTREAM				
LINE #/ CURVE#	LENGTH	RADIUS	LNE/CHORD DIRECTION	CHORD LENGTH
L156	16.41		N87° 39' 35.43"W	
C44	25.15	10.00	N15° 36' 39.81"W	19.00
L157	9.84		N56° 26' 15.81"E	
C45	13.48	10.04	N17° 52' 48.61"E	12.40
L158	9.57		N24° 05' 24.39"W	
C46	31.24	30.00	N53° 55' 23.53"W	29.80
L159	9.97		N83° 45' 22.66"W	
C47	22.55	10.00	N19° 10' 07.65"W	18.00
L160	12.49		N45° 25' 07.37"E	

TRIBUTARY 2 UPSTREAM				
LINE #/ CURVE#	LENGTH	RADIUS	LINE/CHORD DIRECTION	CHORD LENGTH
C17	23.57	41.88	N4° 01' 38.63"W	23.26
C18	10.83	12.19	N35° 29' 11.94"E	10.47
C19	18.75	8.48	N6° 39' 51.93"W	15.16
C20	34.91	14.90	N2° 05' 18.09"W	27.46
C21	26.77	22.42	N48° 21' 42.40"E	25.21
C22	19.16	10.32	N33° 07' 20.38"W	16.53
L42	7.09		N87° 12' 45.01"W	
C23	11.33	16.00	N66° 56' 06.46"W	11.09
L43	6.19		N46° 39' 27.92"W	
C24	21.24	10.00	N14° 10' 45.83"E	17.46
L44	8.71		N75° 00' 59.59"E	
C25	29.86	10.00	N10° 32' 25.13"W	19.94
L45	8.42		S83° 54' 10.16"W	
C26	28.24	10.00	N15° 11' 40.40"W	19.75
L46	10.54		N65° 42' 26.88"E	
C27	14.48	10.00	N24° 13' 15.71"E	13.25
L47	9.11		N17° 15' 52.57"W	
C28	12.97	10.00	N54° 25' 30.93"W	12.08
L48	9.22		S88° 24' 49.50"W	
C29	11.31	10.00	N59° 11' 40.79"W	10.71
L49	7.94		N26° 48' 09.19"W	
C30	28.58	20.00	N14° 08' 18.80"E	26.21
L50	3.36		N55° 30' 24.81"E	
C31	20.44	10.00	N6° 43' 32.42"W	17.06


















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C32	15.23	25.00	N47° 50' 29.17"W	14.99
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C33	12.18	10.00	N4° 29' 17.20"E	11.44
L53	7.66		N39° 22' 04.79"E	
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L54	5.78		N88° 04' 22.61"W	
C35	26.11	10.00	N31° 16' 10.36"W	19.30
L55	0.40		N61° 32' 01.88"E	
C36	14.77	10.00	N19° 13' 09.98"E	13.46
L56	18.25		N23° 05' 41.91"W	
C37	12.71	127.22	N22° 15' 51.60"W	12.70
L153	33.80		N20° 14' 03.60"W	
C38	6.71	16.01	N32° 13' 50.55"W	6.66
L57	18.86		N44° 13' 37.50"W	
C39	10.73	10.00	N5° 27' 34.38"W	10.22
L58	23.47		N27° 00' 01.64"E	
C40	25.75	10.00	N35° 37' 42.88"W	19.20
L59	9.08		S70° 36' 58.29"W	
C41	14.66	10.00	N67° 23' 27.35"W	13.38
L154	17.98		N24° 23' 53.00"W	
C42	14.06	10.00	N15° 53' 08.47"E	12.93
L155	9.90		N55° 10' 11.87"E	
C43	24.93	10.00	N16° 14' 41.78"W	18.96

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LINE #/ CURVE#	LENGTH	RADIUS	LNE/CHORD DIRECTION	CHORD LENGTH
L156	16.41		N87° 39' 35.43"W	
C44	25.15	10.00	N15° 36' 39.81"W	19.03
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C45	13.48	10.04	N17° 52' 48.61"E	12.49
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C47	22.55	10.00	N19° 10' 07.65"W	18.06
L160	12.49		N45° 25' 07.37"E	



### KEYMAP

PROJECT LEGEND:

- |   |                            |
|---|----------------------------|
|  | PROPERTY LINE              |
|  | EXISTING EASEMENT          |
|  | EXISTING GAS LINE          |
|  | EXISTING TELEPHONE LINE    |
|  | EXISTING FENCE LINE        |
|  | EXISTING SECTION LINE      |
|  | EXISTING SWALE             |
|  | EXISTING OVERHEAD ELECTRIC |
|  | EXISTING TELEPHONE POLE    |
|  | EXISTING MAJOR CONTOUR     |
|  | EXISTING MINOR CONTOUR     |
|  | PROPOSED MAJOR CONTOUR     |
|  | PROPOSED MINOR CONTOUR     |
|  | FLOW ARROW                 |
|  | PROPOSED 100-YR FLOODPLAIN |
|  | LIMITS OF CONSTRUCTION     |
|  | LIMITS OF DISTURBANCE      |

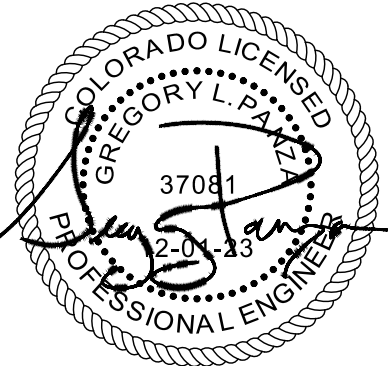
- 
- The map displays four distinct areas: a solid blue area representing the Effective 100-Year Floodplain; a white area with black plus signs representing Existing Wetlands - Jurisdictional; a white area with black dots representing Existing Wetlands - Nonjurisdictional; and a white area with black circles representing the Proposed Maintenance Trail. The map is oriented with North at the top.

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



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



DRAWN BY:	ACH	JOB DATE:	1/25/2024
APPROVED:	GLP	JOB NUMBER:	201662.03
CAD DATE:	1/26/2024		
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DENVER CO 80111  
PHONE: 720.602.4999  
FAX: 713.965.0044

GRANDVIEW RESERVE  
DR HORTON  
FALCON, COLORADO

CONSTRUCTION DOCUMENTS

TRIBUTARY 2 BANKFULL GRADING

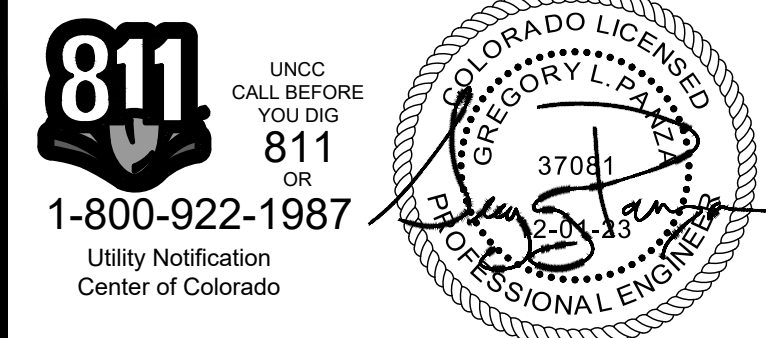
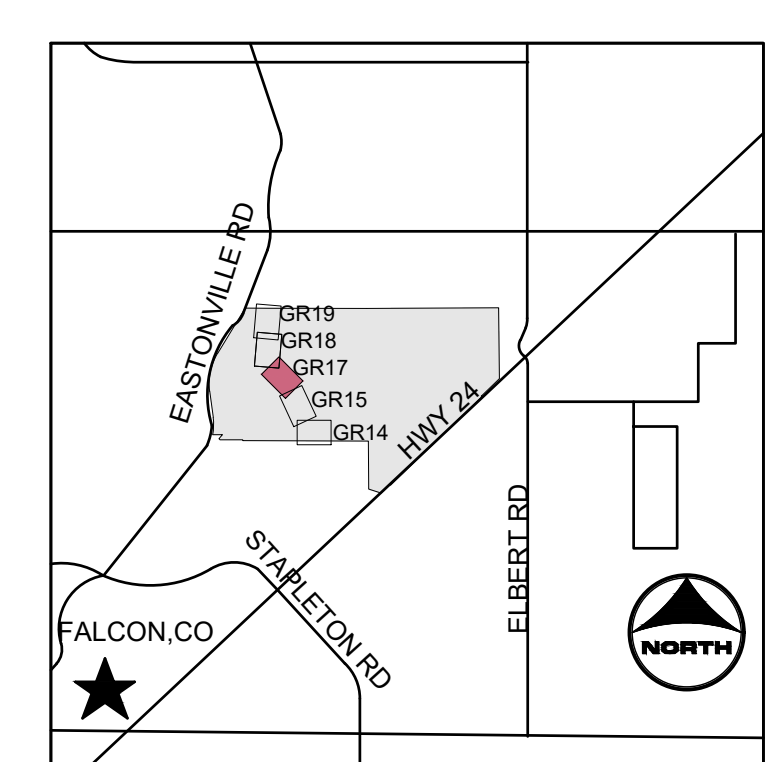
SHEET  
GR14

18



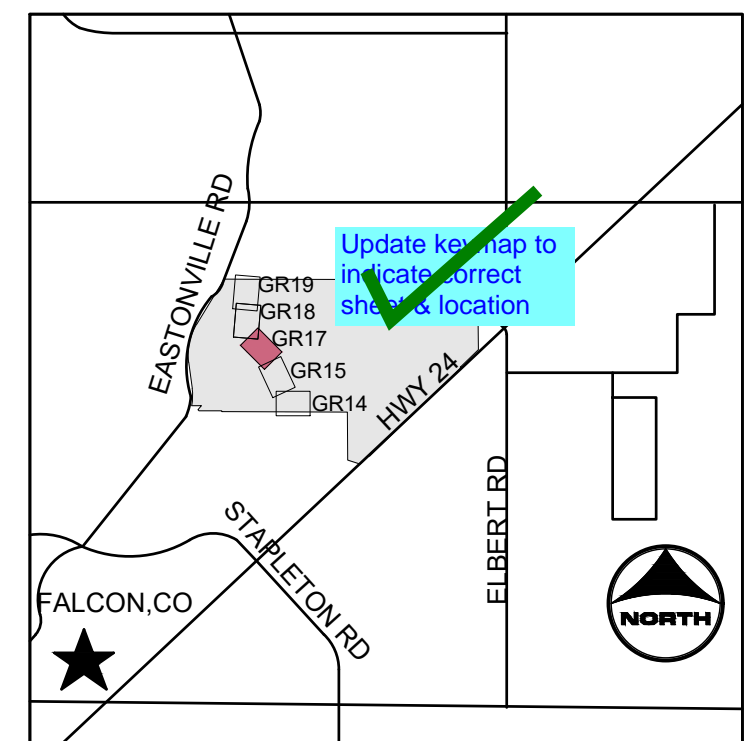
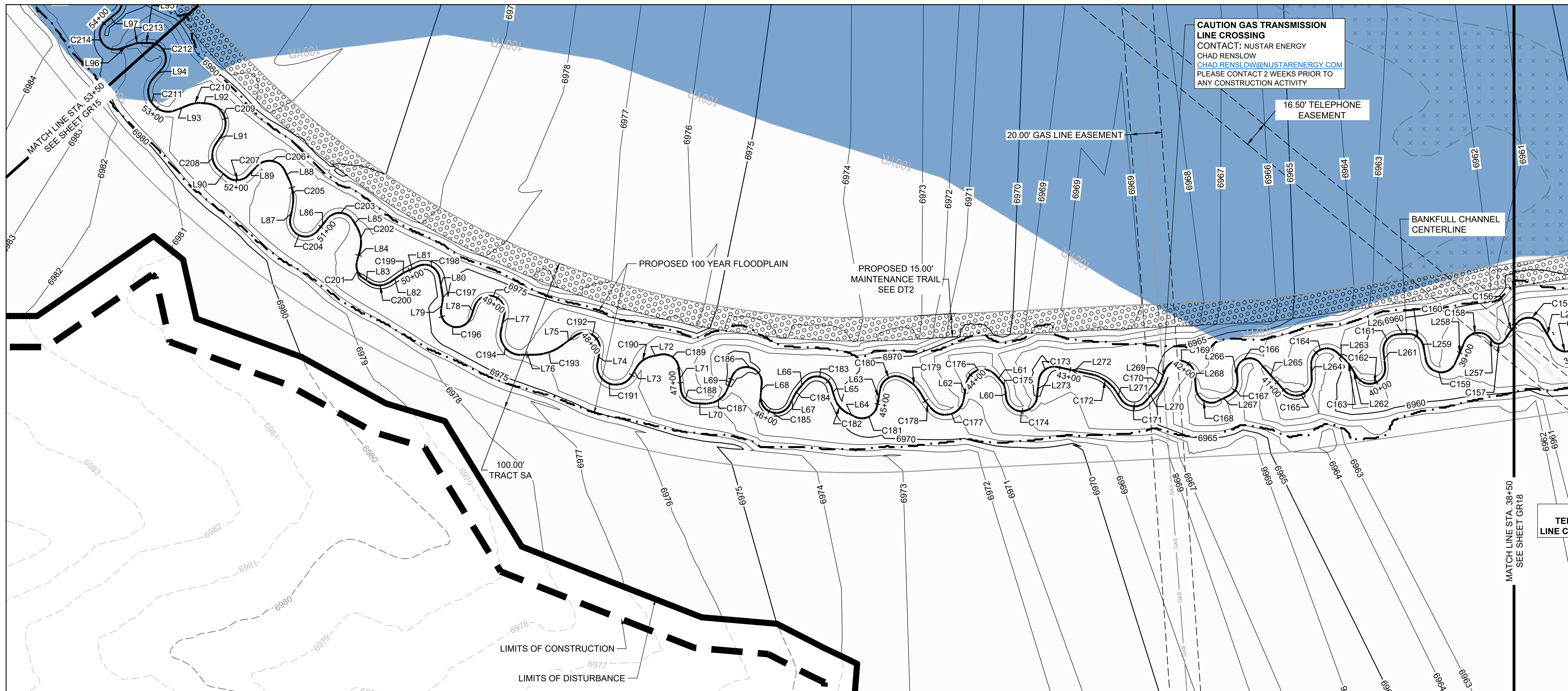








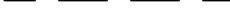


















SHEET	
GR16	20





## KEYMAP

PROJECT LEGEND:

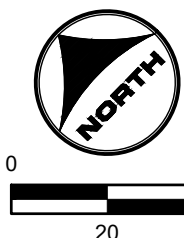
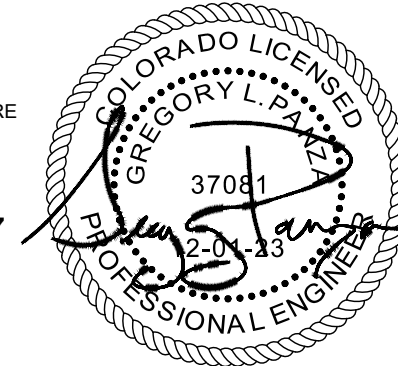
	PROPERTY LINE
	EXISTING EASEMENT
	EXISTING GAS LINE
	EXISTING TELEPHONE LINE
	EXISTING FENCE LINE
	EXISTING SECTION LINE
	EXISTING SWALE
	EXISTING OVERHEAD ELECTRIC
	EXISTING TELEPHONE POLE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	FLOW ARROW
	PROPOSED 100-YR FLOODPLAIN
	LIMITS OF CONSTRUCTION
	LIMITS OF DISTURBANCE
	EFFECTIVE 100-YR FLOODPLAIN
	EXISTING WETLANDS - JURISDICTIONAL
	EXISTING WETLANDS - NONJURISDICTIONAL
	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.
2. **BENCHMARK:**  
DESIGNATION: F = 24  
PID = JK0240  
DESCRIPTION = DISK ON TOP OF CONCRETE MONUMENT  
CONTROL POINT COORDINATE SYSTEM:  
NAV88  
NORTHING: 1421049.80  
EASTING: 3273631.55  
ELEVATION: 6866.33



1-800-922-1987  
Utility Notification  
Center of Colorado



TRIBUTARY 2 UPSTREAM					TRIBUTARY 2 UPSTREAM					TRIBUTARY 2 UPSTREAM					TRIBUTARY 2 UPSTREAM					TRIBUTARY 2 UPSTREAM				
LINE #/ CURVE#	LENGTH	RADIUS	LINE/CHORD DIRECTION	CHORD LENGTH	LINE #/ CURVE#	LENGTH	RADIUS	LINE/CHORD DIRECTION	CHORD LENGTH	LINE #/ CURVE#	LENGTH	RADIUS	LINE/CHORD DIRECTION	CHORD LENGTH	LINE #/ CURVE#	LENGTH	RADIUS	LINE/CHORD DIRECTION	CHORD LENGTH	LINE #/ CURVE#	LENGTH	RADIUS	LINE/CHORD DIRECTION	CHORD LENGTH
C156	15.76	60.71	S82° 15' 15.94"W	15.72	L267	7.77		N72° 04' 21.48"W		C180	18.49	10.13	N71° 44' 52.25"W	16.03	C191	33.50	12.00	N24° 33' 51.04"W	23.63	C202	16.30	20.00	N36° 52' 50.66"E	15.85
C157	9.19	4.73	N48° 26' 22.95"W	7.81	C168	19.62	10.00	N15° 51' 06.52"W	16.62	L63	11.09		S55° 49' 10.23"W		L74	7.78		N55° 24' 57.68"E		L85	4.49		N13° 32' 20.24"E	
L257	3.58		N3° 04' 06.31"E		L268	8.77		N40° 22' 08.43"E		C181	18.28	10.00	N71° 48' 07.40"W	15.84	C192	23.85	10.00	N12° 54' 52.85"W	18.59	C203	19.05	10.00	N41° 02' 37.80"W	16.30
C158	19.37	10.00	N58° 30' 53.78"W	16.48	C169	26.96	10.00	N36° 52' 20.72"W	19.51	L64	4.96		N19° 25' 23.80"W		L75	10.97		N81° 14' 45.25"W		L86	10.38		S84° 22' 24.17"W	
L258	14.86		S68° 36' 16.40"W		L269	6.80		S65° 53' 08.80"W		C182	14.36	17.00	N4° 47' 00.04"E	13.94	C193	18.57	30.00	N63° 30' 39.38"W	18.28	C204	26.57	10.00	N19° 30' 04.19"W	19.42
C159	24.92	10.00	N36° 46' 43.51"W	18.95	C170	6.95	20.00	S75° 50' 02.38"W	6.91	L65	6.32		N28° 59' 23.88"E		L76	8.89		N45° 46' 33.52"W		L87	6.39		N56° 37' 27.46"E	
L259	8.54		N34° 36' 24.38"E		L270	9.62		S85° 46' 55.98"W		C183	21.42	10.00	N32° 22' 59.06"W	17.56	C194	23.32	13.00	N5° 36' 50.04"E	20.32	C205	19.50	30.00	N38° 00' 21.14"E	19.16
C160	14.25	10.00	N6° 12' 38.24"W	13.07	C171	18.49	10.00	N41° 14' 28.08"W	15.97	L66	6.17		S86° 14' 36.82"W		L77	10.63		N57° 00' 13.60"E		L88	6.02		N19° 23' 14.34"E	
L260	6.03		N47° 01' 39.20"W		L271	6.51		N11° 44' 07.86"E		C184	5.15	20.00	S78° 51' 55.74"W	5.14	C195	30.29	10.00	N29° 45' 29.57"W	19.97	C206	21.26	11.00	N35° 59' 34.23"W	18.10
C161	16.43	10.00	S85° 53' 35.89"W	14.65	C172	19.46	25.00	N10° 33' 42.42"W	18.97	L67	6.44		S71° 29' 13.91"W		L78	6.95		S63° 28' 48.34"W		L89	8.40		S88° 37' 37.20"W	
L261	9.89		S38° 48' 50.97"W		L272	22.46		N32° 51' 32.70"W		C185	27.69	10.00	N29° 11' 46.10"W	19.65	C196	29.92	10.00	N30° 47' 54.08"W	19.94	C207	14.93	10.00	N48° 36' 10.78"W	13.58
C162	27.21	10.00	N63° 13' 46.48"W	19.56	C173	16.69	10.00	N80° 40' 16.27"W	14.82	L68	7.92		N50° 07' 13.89"E		L79	4.15		N54° 55' 22.26"E		L90	6.08		N5° 49' 58.75"W	
L262	6.59		N14° 43' 35.02"E		L273	11.08		S51° 30' 58.83"W		C186	28.76	10.00	N32° 16' 01.93"W	19.82	C197	6.25	18.00	N44° 58' 12.97"E	6.22	C208	19.45	13.00	N37° 02' 16.06"E	17.69
C163	6.02	20.00	N6° 06' 03.29"E	6.00	C174	29.21	10.00	N44° 47' 38.64"W	19.88	L69	7.91		S65° 20' 42.25"W		L80	10.16		N35° 01' 04.53"E		L91	6.84		N79° 54' 30.86"E	
L263	7.20		N2° 31' 29.50"W		L60	4.58		N38° 53' 43.89"E		C187	19.07	15.00	N78° 14' 01.44"W	17.81	C198	18.41	10.00	N17° 43' 12.15"W	15.92	C209	27.37	13.00	N19° 35' 19.50"E	22.59
C164	23.46	10.00	N69° 43' 47.95"W	18.44	C175	6.28	10.00	N20° 54' 02.58"E	6.18	L70	5.88		N41° 48' 47.05"W		L81	8.03		N70° 27' 28.82"W		L92	3.27		N40° 43' 51.79"W	
L264	9.75		S43° 03' 53.60"W		L61	5.56		N2° 54' 21.27"E		C188	14.23	10.00	N1° 03' 38.55"W	13.06	C199	5.01	30.06	N75° 00' 38.36"W	5.00	C210	9.28	20.00	N54° 01' 48.85"W	9.20
C165	25.51	10.26	N64° 27' 12.24"W	19.43	C176	24.70	11.00	N61° 25' 29.35"W	19.83	L71	13.81		N39° 41' 29.96"E		L82	7.48		N79° 47' 19.86"W		L93	8.27		N67° 19' 45.91"W	
L265	24.22		N3° 28' 47.39"E		L62	10.86		S54° 14' 40.03"W		C189	16.83	10.01	N10° 00' 57.74"W	14.91	C200	14.10	12.00	N46° 07' 14.40"W	13.31	C211	35.19	13.00	N10° 12' 28.14"E	25.39
C166	20.88	8.44	N74° 30' 03.34"W	15.95	C177	24.08	11.98	N64° 32' 15.25"W	20.23	L72	6.19		N58° 12' 37.69"W		L83	4.63		N12° 27' 08.94"W		L94	7.78		N87° 44' 40.12"E	
L266	4.56		S41° 00' 17.45"W		C178	12.52	34.40	N7° 05' 18.27"E	12.45	C190	11.32	14.00	N81° 22' 38.72"W	11.02	C201	12.68	10.00	N23° 53' 06.07"E	11.85	C212	23.02	10.00	N21° 47' 21.49"E	18.26
C167	11.68	10.00	S74° 27' 57.98"W	11.03	C179	17.56	25.25	N2° 31' 20.35"W	17.21	L73	6.48		S75° 27' 20.25"W		L84	7.35		N60° 13' 21.09"E						

DRAWN BY: ACH JOB DATE: 1/25/2024 BAR IS ONE INCH ON  
APPROVED: GLP JOB NUMBER: 201662.03 OFFICIAL DRAWINGS,  
0 1"  
CAD DATE: 1/26/2024 IF NOT ONE INCH,  
CAD FILE: J:\2020\201662.03\CAD\DWG\G\GRADING ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	REVISION DESCRIPTION



HR GREEN - DENVER  
5613 DTC PARKWAY SUITE 950  
DENVER CO 80111  
PHONE: 720.602.4999  
FAX: 713.965.0044

GRANDVIEW RESERVE  
DR HORTON  
FALCON, COLORADO

CONSTRUCTION DOCUMENTS

TRIBUTARY 2 BANKFULL GRADING

SHEET  
GR17

21





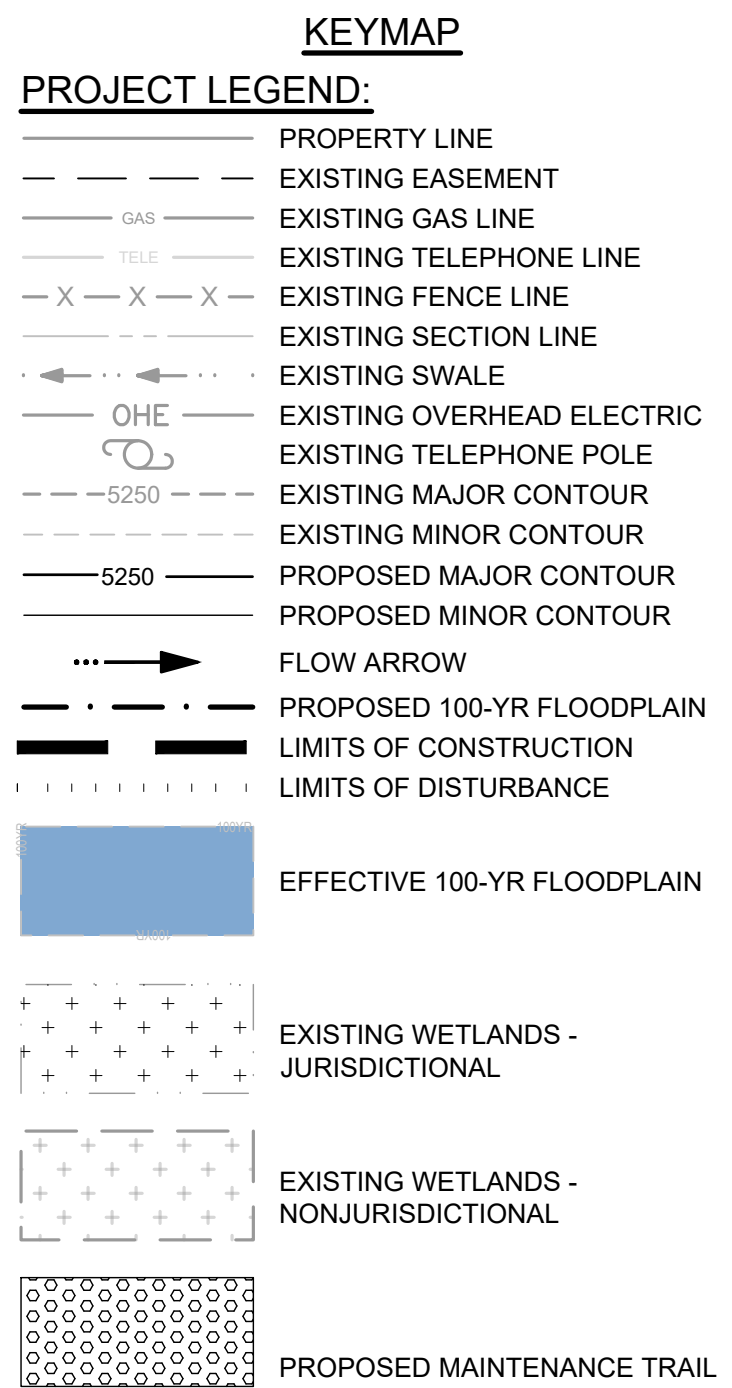


TRIBUTARY 2 UPSTREAM				
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L150	7.19		N67° 12' 54.10"W	
C271	24.50	15.00	N20° 25' 45.98"W	21.86
C272	14.98	18.00	N2° 31' 05.79"E	14.55
L151	3.20		N21° 19' 11.62"W	



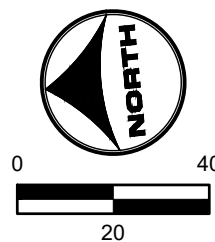
GRANDVIEW RESERVE  
DR HORTON  
FALCON, COLORADO

SHEET  
GR19 23

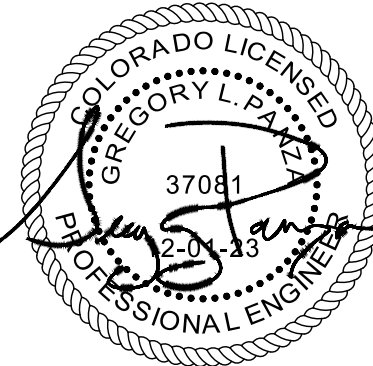


**NOTES:**

- BASIS OF BEARINGS:** THE EAST LINE OF SECTION 21, BEING MONUMENTED AT THE SOUTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CIP STAMPED "PS INC PLS 30087 1996", BEING APPROPRIATELY MARKED, AND BEING MONUMENTED AT THE NORTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CIP 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:  
NAD83  
NORTHING: 1421049.80  
EASTING: 3273631.55  
ELEVATION: 6866.33

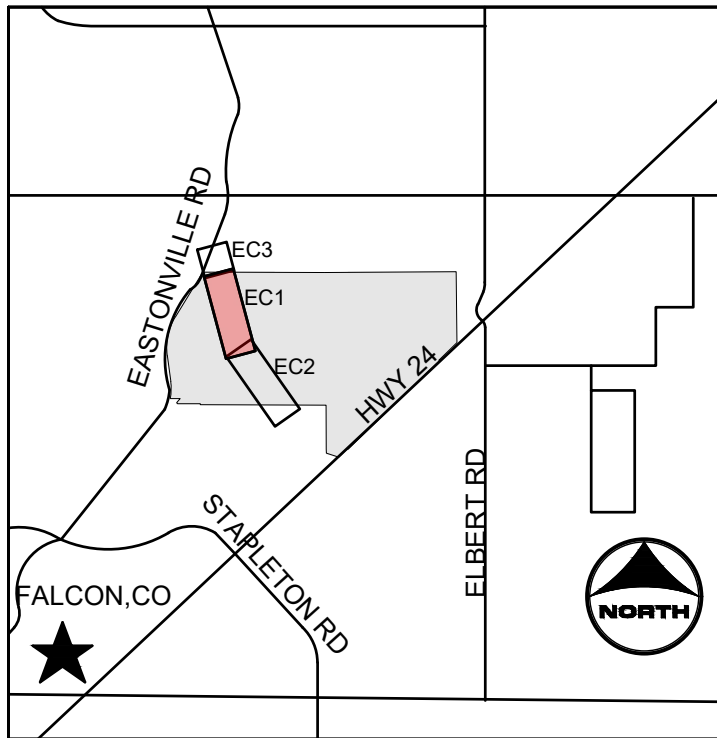
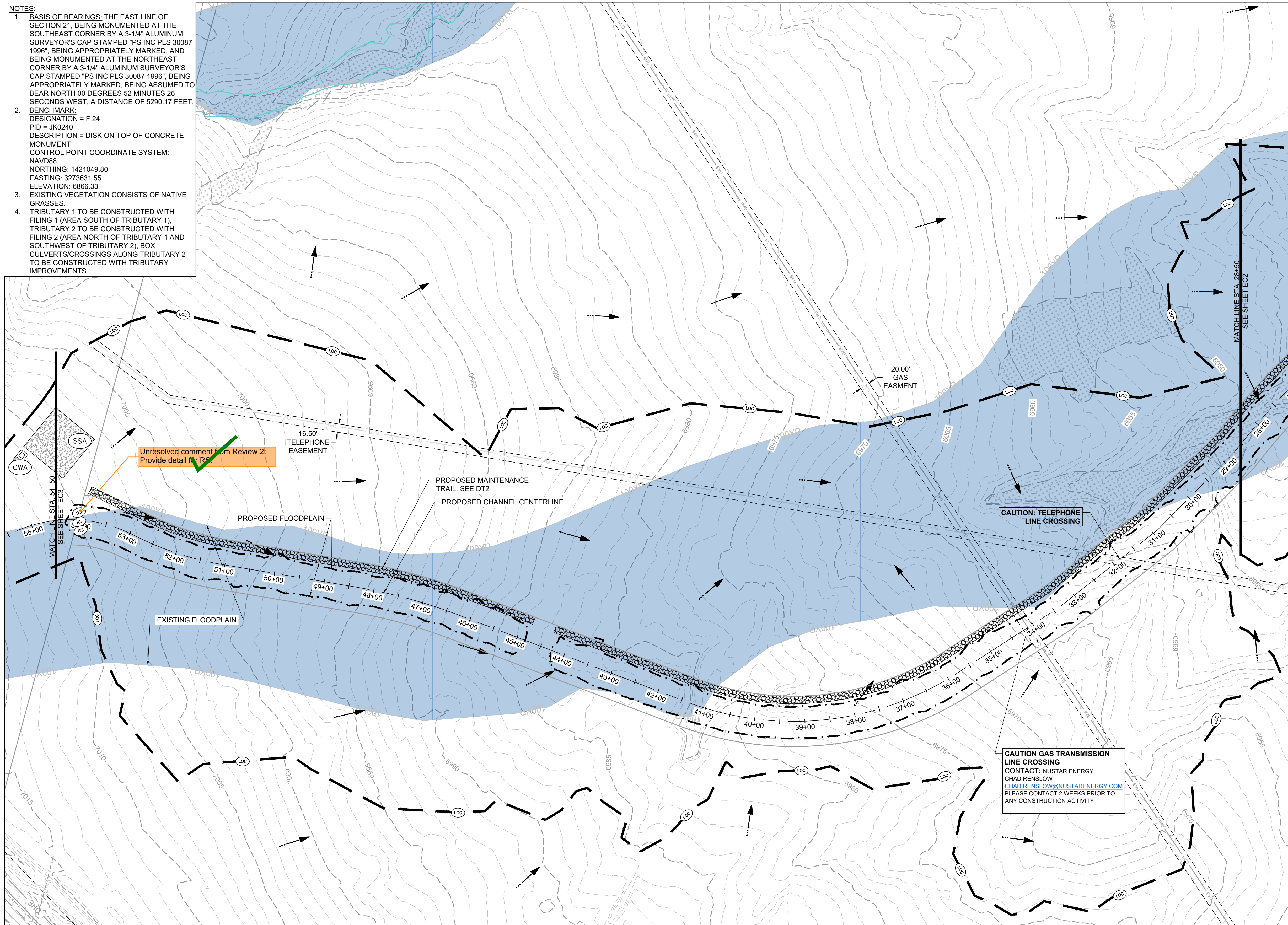


**811**  
UNCC  
CALL BEFORE  
YOU DIG  
**811**  
OR  
**1-800-922-1987**  
Utility Notification  
Center of Colorado





- 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.
  2. 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
  3. EXISTING VEGETATION CONSISTS OF NATIVE GRASSES.
  4. TRIBUTARY 1 TO BE CONSTRUCTED WITH FILING 1 (AREA SOUTH OF TRIBUTARY 1), TRIBUTARY 2 TO BE CONSTRUCTED WITH FILING 2 (AREA NORTH OF TRIBUTARY 1 AND SOUTHWEST OF TRIBUTARY 2), BOX CULVERTS/CROSSINGS ALONG TRIBUTARY 2 TO BE CONSTRUCTED WITH TRIBUTARY IMPROVEMENTS.



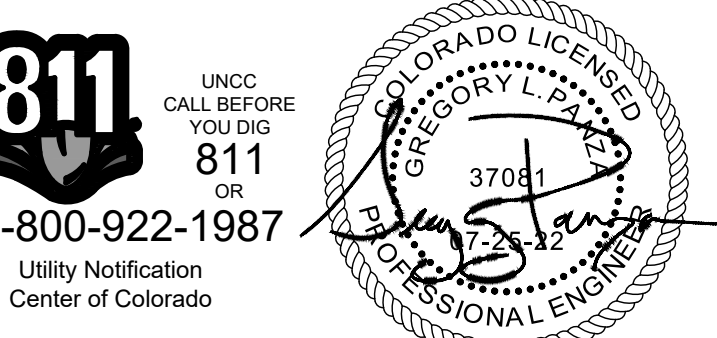
- PROJECT LEGEND:**
- PROPERTY LINE
  - EXISTING EASEMENT
  - EXISTING GAS LINE
  - EXISTING TELEPHONE LINE
  - EXISTING FENCE LINE
  - EXISTING SECTION LINE
  - EXISTING SWALE
  - EXISTING OVERHEAD ELECTRIC
  - EXISTING TELEPHONE POLE
  - EXISTING MAJOR CONTOUR
  - EXISTING MINOR CONTOUR
  - PROPOSED MAJOR CONTOUR
  - PROPOSED MINOR CONTOUR
  - FLOW ARROW
  - PROPOSED 100-YR FLOODPLAIN
  - EXISTING 100-YR FLOODPLAIN
  - EXISTING WETLANDS - JURISDICTIONAL
  - EXISTING WETLANDS - NONJURISDICTIONAL
  - PROPOSED MAINTENANCE TRAIL

**BMP LEGEND:**

- CWA CONCRETE WASHOUT AREA
- SF SILT FENCE
- VTC VEHICLE TRACKING CONTROL
- SSA STABILIZED STAGING AREA
- LOC LIMITS OF CONSTRUCTION
- CD CHECK DAM
- RS ROCK SOCK

**CAUTION: TELEPHONE LINE CROSSING**

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



DRAWN BY: ACH JOB DATE: 1/25/2024  
APPROVED: GLP JOB NUMBER: 201662.03  
CAD DATE: 1/26/2024  
CAD FILE: J:\2020\201662.03\CAD\Drawings\INITIAL EROSION CONTROL

NO.	DATE	BY	REVISION DESCRIPTION



HR GREEN - DENVER  
5613 DTC PARKWAY SUITE 950  
DENVER CO 80111  
PHONE: 720.602.4999  
FAX: 713.965.0044

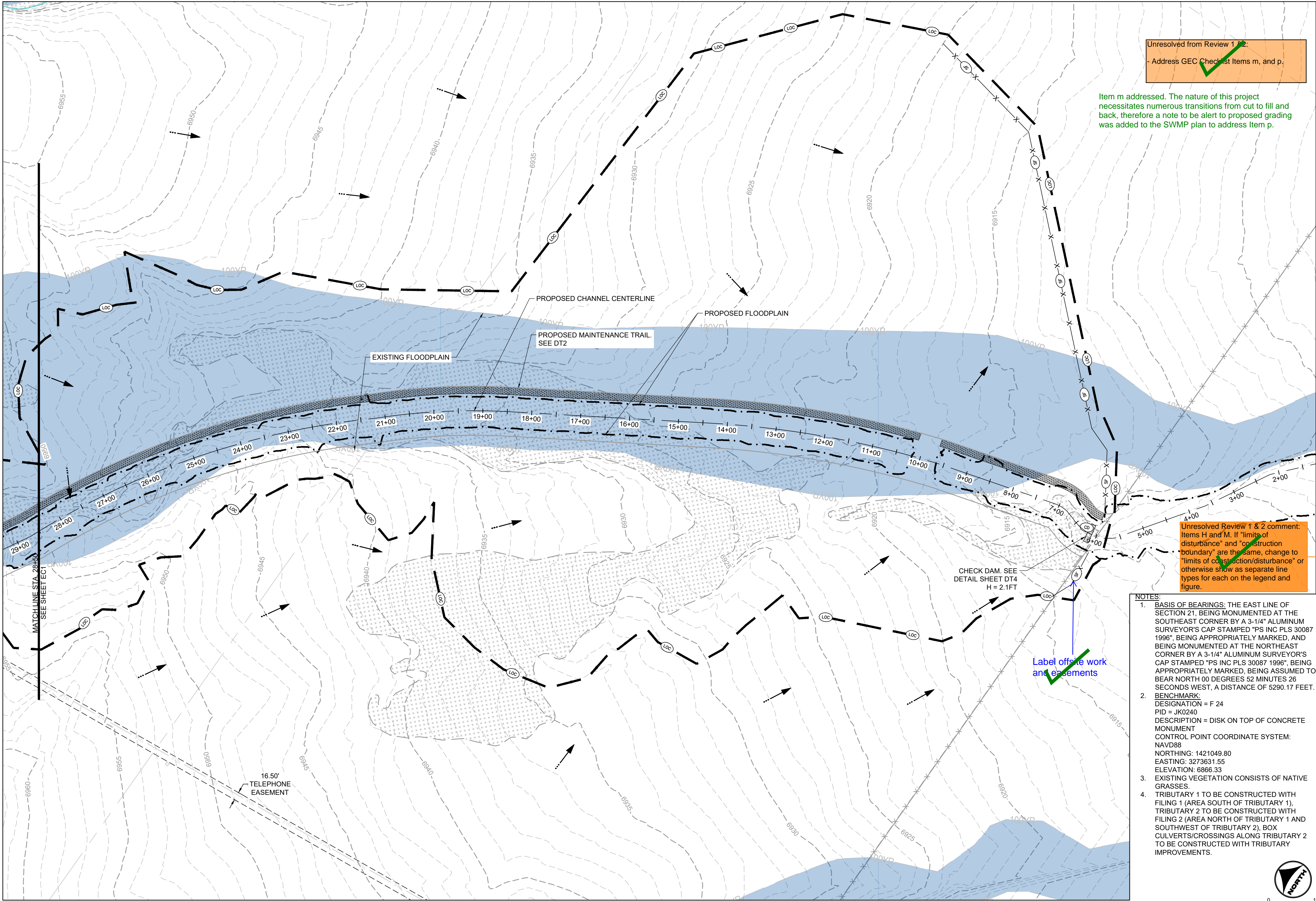
GRANDVIEW RESERVE  
DR HORTON  
FALCON, COLORADO

CONSTRUCTION DOCUMENTS  
INITIAL EROSION CONTROL

SHEET  
EC1  
24



HR GREEN vrb: xg1 -dht01: INITIAL EROSION CONTROL KEY: 01-XC-INITIAL-EC: 01-XC-PR\_100YR\_PP\_DELINEATION: xc-channel: xv-dsign: b62: xv-ull: b62: xv-row: b62

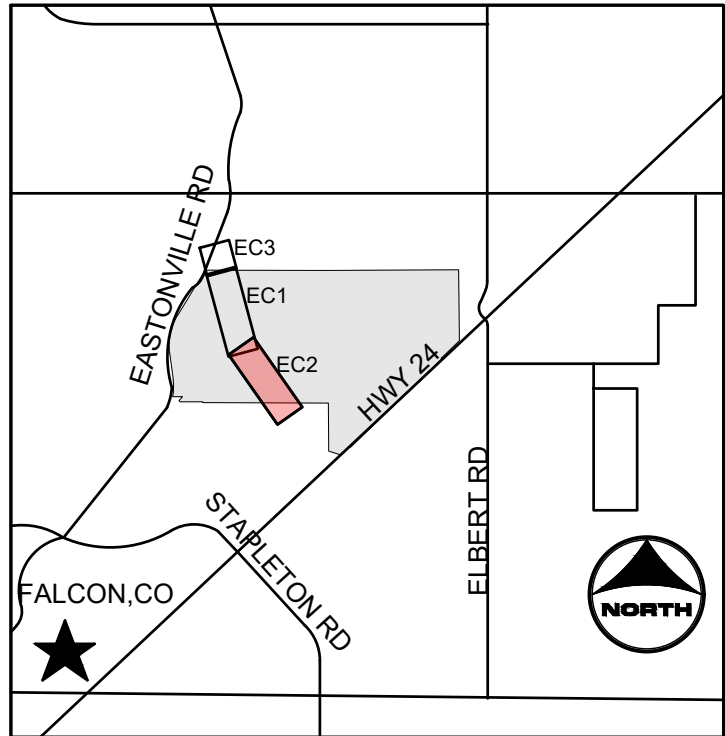


Unresolved from Review 1 & 2:  
- Address GEC Checklist items m, and p.

Item m addressed. The nature of this project necessitates numerous transitions from cut to fill and back, therefore a note to be alert to proposed grading was added to the SWMP plan to address Item p.

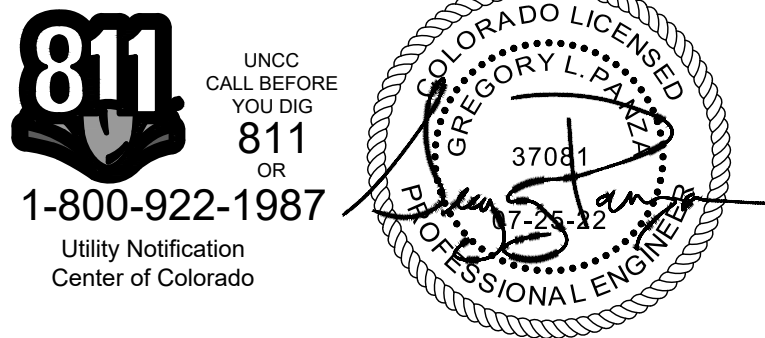
Unresolved Review 1 & 2 comment: Items H and M. If "limits of disturbance" and "construction boundary" are the same, change to "limits of construction/disturbance" or otherwise show as separate line types for each on the legend and figure.

- 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.
  2. 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
  3. EXISTING VEGETATION CONSISTS OF NATIVE GRASSES.
  4. TRIBUTARY 1 TO BE CONSTRUCTED WITH FILING 1 (AREA SOUTH OF TRIBUTARY 1), TRIBUTARY 2 TO BE CONSTRUCTED WITH FILING 2 (AREA NORTH OF TRIBUTARY 1 AND SOUTHWEST OF TRIBUTARY 2), BOX CULVERTS/CROSSINGS ALONG TRIBUTARY 2 TO BE CONSTRUCTED WITH TRIBUTARY IMPROVEMENTS.



- KEYMAP
- PROJECT LEGEND:
- PROPERTY LINE
  - EXISTING EASEMENT
  - GAS
  - EXISTING GAS LINE
  - TELE
  - EXISTING TELEPHONE LINE
  - X - X - X
  - EXISTING FENCE LINE
  - EXISTING SECTION LINE
  - EXISTING SWALE
  - OHE
  - EXISTING OVERHEAD ELECTRIC
  - EXISTING TELEPHONE POLE
  - 5250
  - EXISTING MAJOR CONTOUR
  - EXISTING MINOR CONTOUR
  - 5250
  - PROPOSED MAJOR CONTOUR
  - PROPOSED MINOR CONTOUR
  - FLOW ARROW
  - PROPOSED 100-YR FLOODPLAIN
  - EXISTING 100-YR FLOODPLAIN
  - EXISTING WETLANDS - JURISDICTIONAL
  - EXISTING WETLANDS - NONJURISDICTIONAL
  - PROPOSED MAINTENANCE TRAIL

- BMP LEGEND:
- CWA CONCRETE WASHOUT AREA
  - SF SILT FENCE
  - VTC VEHICLE TRACKING CONTROL
  - SSA STABILIZED STAGING AREA
  - LOC LIMITS OF CONSTRUCTION
  - CD CHECK DAM
  - RS ROCK SOCK



DRAWN BY: ACH JOB DATE: 1/25/2024  
APPROVED: GLP JOB NUMBER: 201662.03  
CAD DATE: 1/26/2024  
CAD FILE: J:\2020\201662.03\CAD\dwgs\C\INITIAL EROSION CONTROL

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

NO.	DATE	BY	REVISION DESCRIPTION

HR GREEN - DENVER  
5613 DTC PARKWAY SUITE 950  
DENVER CO 80111  
PHONE: 720.602.4999  
FAX: 713.965.0044

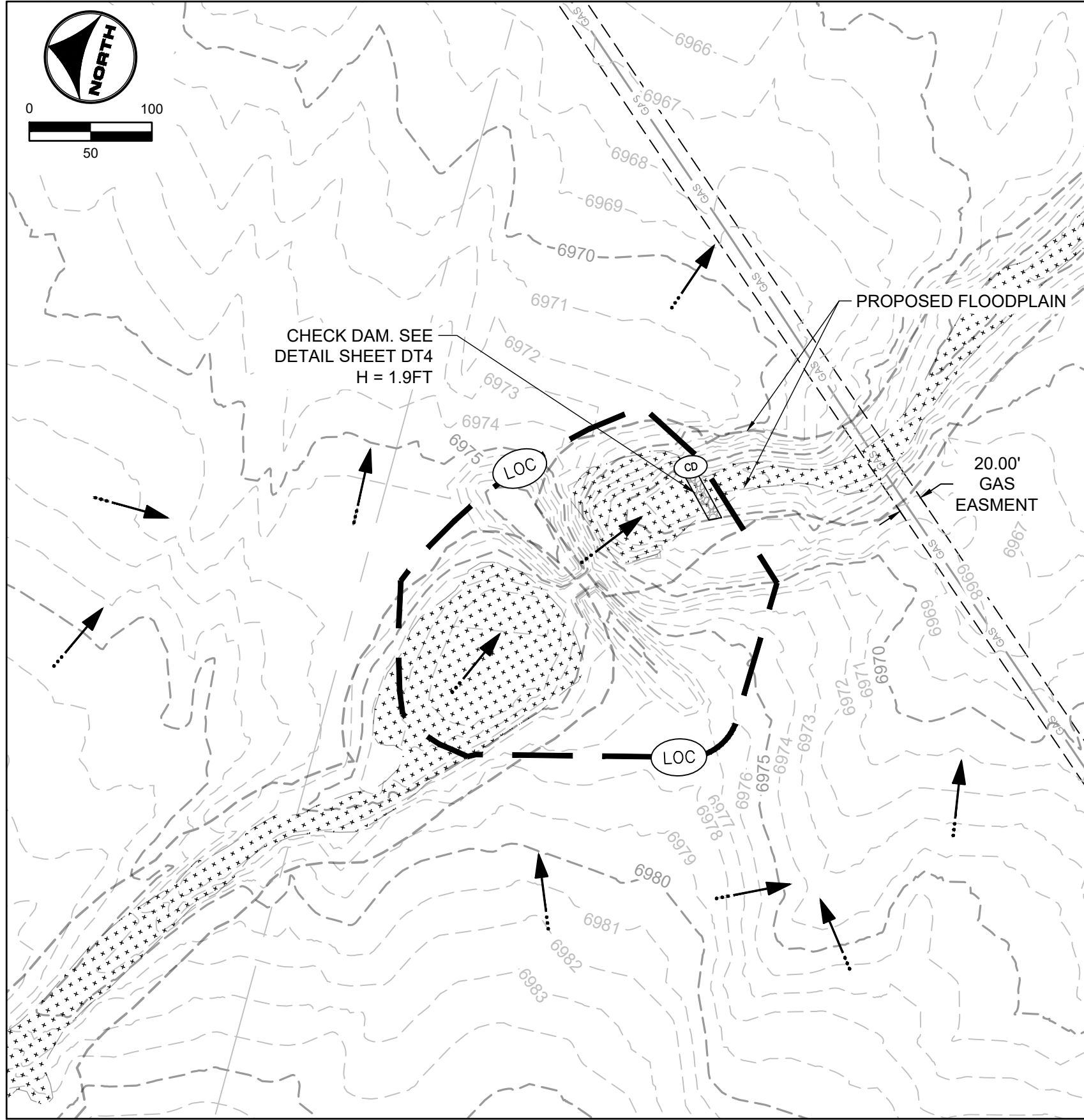
GRANDVIEW RESERVE  
DR HORTON  
FALCON, COLORADO

CONSTRUCTION DOCUMENTS  
INITIAL EROSION CONTROL

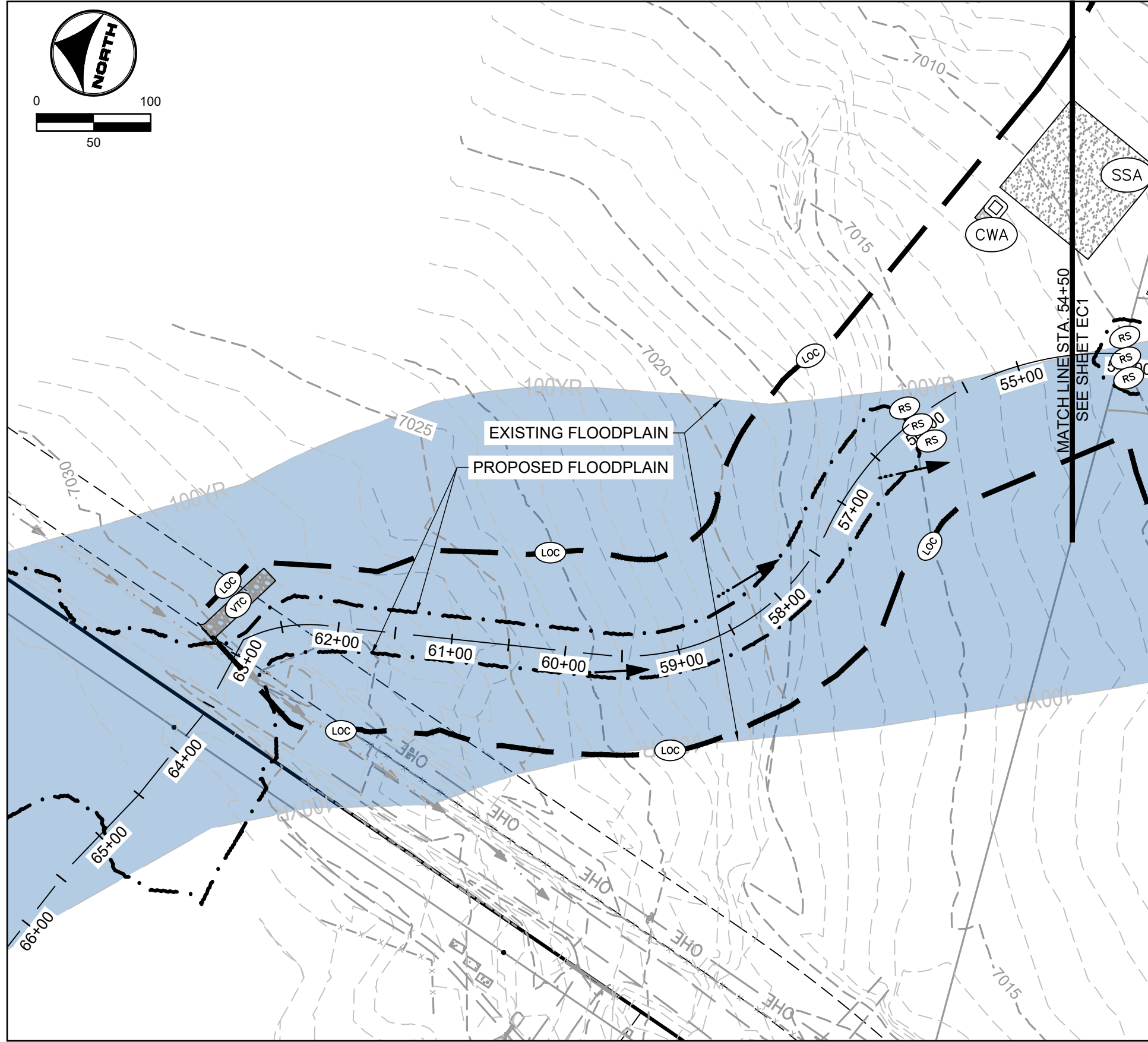
SHEET  
EC2  
25



HR GREEN xref: xref.dgn; -dgn01: INITIAL EROSION CONTROL KEY; 01-XC-INITIAL-EC-01-XC-PR-100YR\_PP\_DELINEATION; xc-channel; xv-dgn1\_662; xv-ull\_662; xv-row-662



TRIBUTARY 1



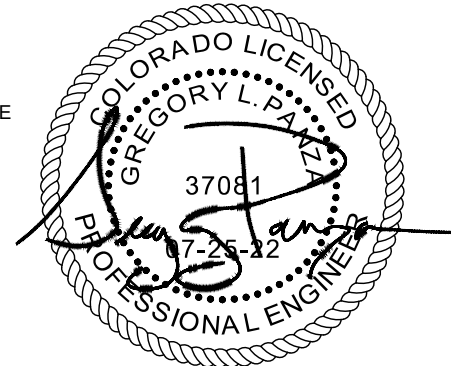
TRIBUTARY 2

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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BMP LEGEND:

- |  |     |                          |
|--|-----|--------------------------|
|  | CWA | CONCRETE WASHOUT AREA    |
|  | SF  | SILT FENCE               |
|  | VTC | VEHICLE TRACKING CONTROL |
|  | SSA | STABILIZED STAGING AREA  |
|  | LOC | LIMITS OF CONSTRUCTION   |
|  | CD  | CHECK DAM                |
|  | RS  | ROCK SOCK                |



DRAWN BY: ACH  
APPROVED: GLP  
CAD DATE: 1/26/2024  
CAD FILE: J:\2020\201662.03\CAD\dwgs\C\INITIAL EROSION CONTROL

JOB DATE: 1/25/2024  
JOB NUMBER: 201662.03

BAR IS ONE INCH ON  
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ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	REVISION DESCRIPTION



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DENVER CO 80111  
PHONE: 720.602.4999  
FAX: 713.965.0044

GRANDVIEW RESERVE  
DR HORTON  
FALCON, COLORADO

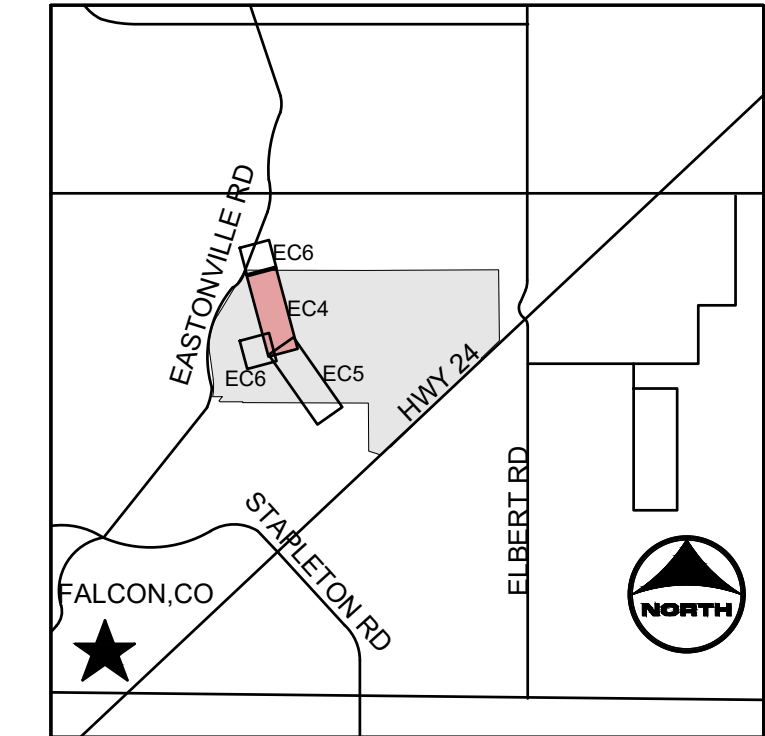
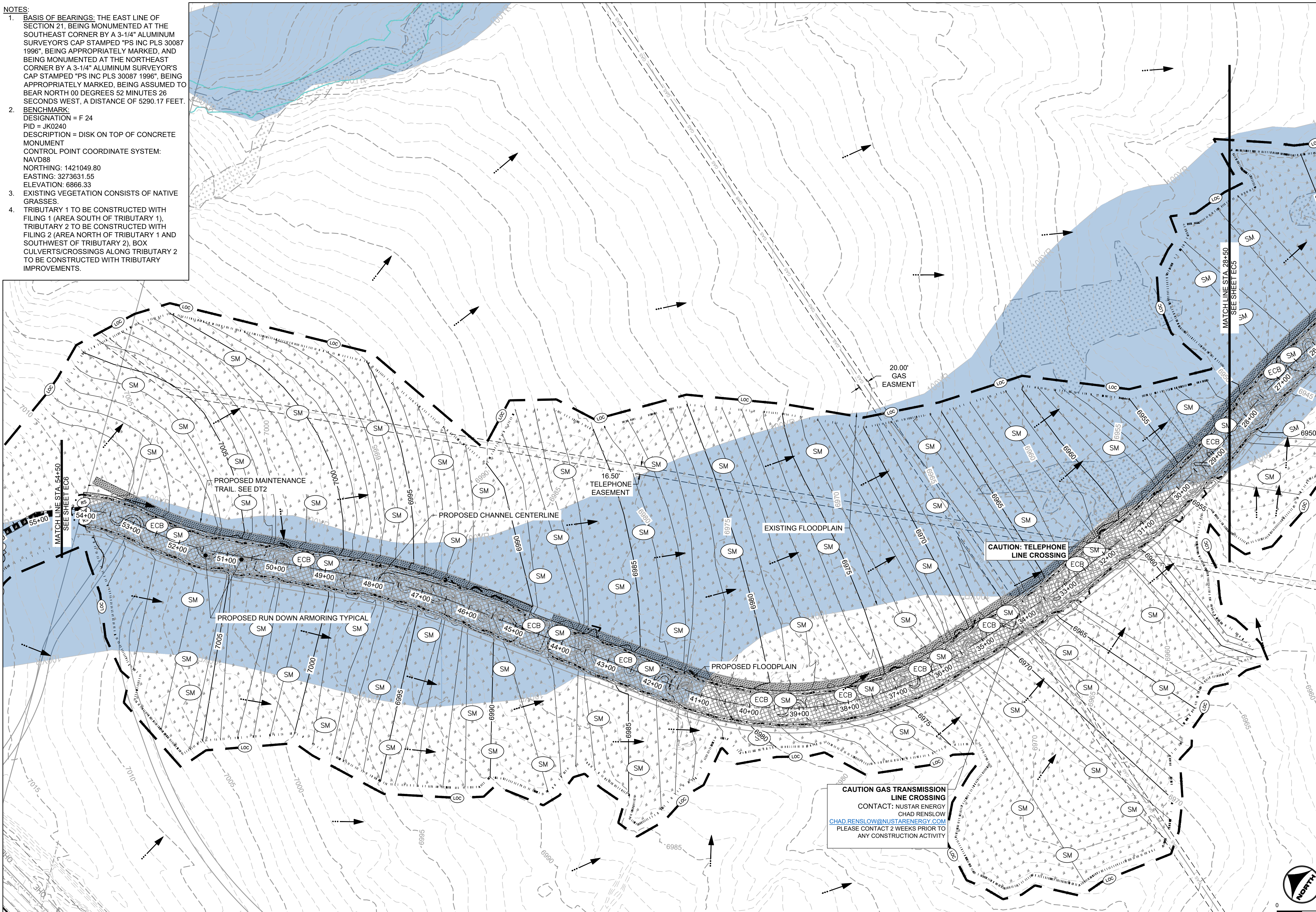
CONSTRUCTION DOCUMENTS  
INITIAL EROSION CONTROL

SHEET  
EC3

26

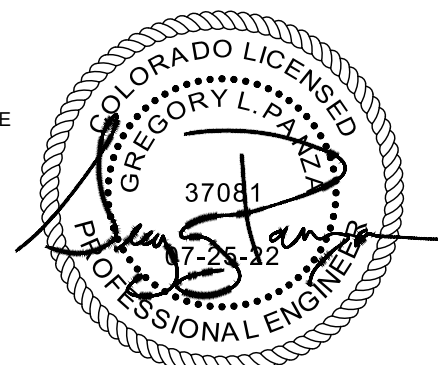


- NOTES:
1. BASIS OF BEARINGS: THE EAST LINE OF SECTION 21, BEING MONUMENTED AT THE SOUTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CAP STAMPED "PS INC PLS 30087 1996", BEING APPROPRIATELY MARKED, AND BEING MONUMENTED AT THE NORTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CAP STAMPED "PS INC PLS 30087 1996", BEING APPROPRIATELY MARKED, BEING ASSUMED TO BEAR NORTH 00 DEGREES 52 MINUTES 26 SECONDS WEST, A DISTANCE OF 5290.17 FEET.
  2. 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
  3. EXISTING VEGETATION CONSISTS OF NATIVE GRASSES.
  4. TRIBUTARY 1 TO BE CONSTRUCTED WITH FILING 1 (AREA SOUTH OF TRIBUTARY 1), TRIBUTARY 2 TO BE CONSTRUCTED WITH FILING 2 (AREA NORTH OF TRIBUTARY 1 AND SOUTHWEST OF TRIBUTARY 2), BOX CULVERTS/CROSSINGS ALONG TRIBUTARY 2 TO BE CONSTRUCTED WITH TRIBUTARY IMPROVEMENTS.



- KEYMAP**
- PROJECT LEGEND:**
- PROPERTY LINE
  - EXISTING EASEMENT
  - GAS
  - EXISTING GAS LINE
  - TELE
  - EXISTING TELEPHONE LINE
  - X - X - X
  - EXISTING FENCE LINE
  - EXISTING SECTION LINE
  - OHE
  - EXISTING OVERHEAD ELECTRIC
  - EXISTING TELEPHONE POLE
  - 5250-
  - EXISTING MAJOR CONTOUR
  - 5250-
  - EXISTING MINOR CONTOUR
  - PROPOSED MAJOR CONTOUR
  - PROPOSED MINOR CONTOUR
  - FLOW ARROW
  - PROPOSED 100-YR FLOODPLAIN
  - EXISTING 100-YR FLOODPLAIN
  - EXISTING WETLANDS - JURISDICTIONAL
  - EXISTING WETLANDS - NONJURISDICTIONAL
  - PROPOSED MAINTENANCE TRAIL

- BMP LEGEND:**
- LOC LIMITS OF CONSTRUCTION
  - SM SEEDING AND MULCHING
  - ECB EROSION CONTROL BLANKET
  - RS ROCK SOCK



DRAWN BY: ACH JOB DATE: 1/23/2024  
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CAD DATE: 1/26/2024  
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GRANDVIEW RESERVE  
DR HORTON  
FALCON, COLORADO

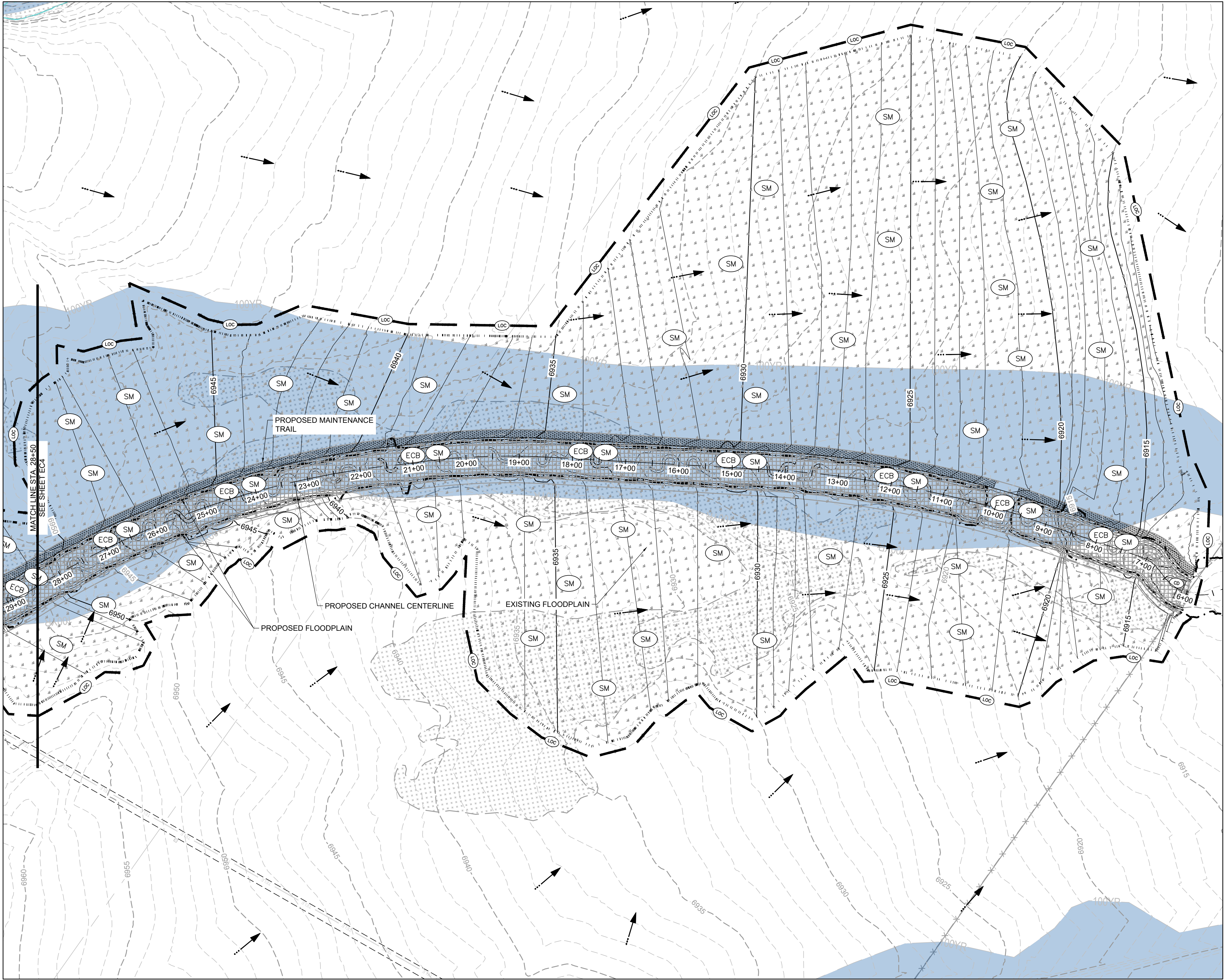
CONSTRUCTION DOCUMENTS  
FINAL EROSION CONTROL

SHEET  
EC4

27

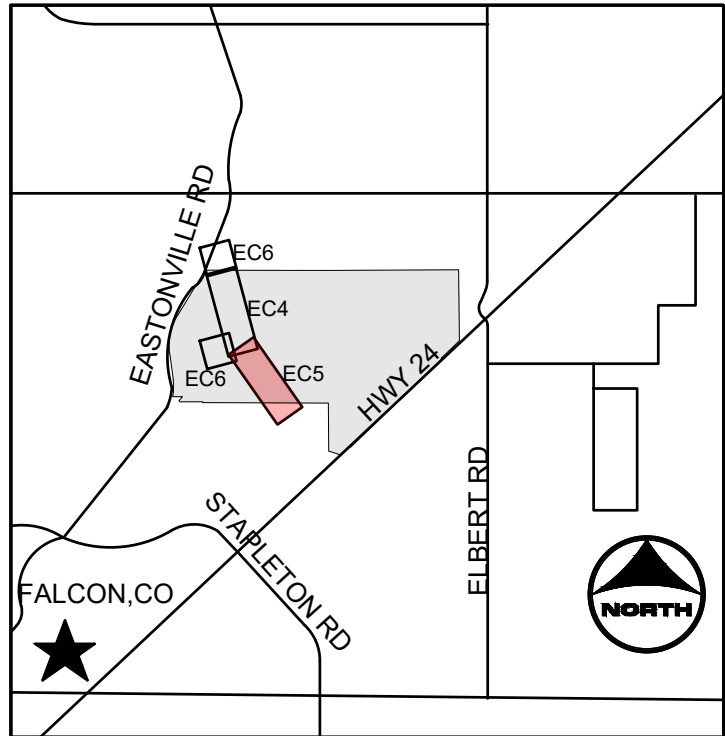
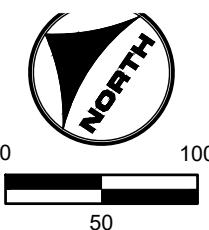


HR GREEN vrb.sxg-4-dh01: FINAL EROSION CONTROL KEY: 01-XC-FINAL-EC-01-XC-RRAP-01-XC-PR-00YR\_PP\_DELINEATION; xc-channel; xv-dill; 662; xc-row-662; xv-dsign; 662



#### 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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NAVD88  
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#### KEYMAP

#### PROJECT LEGEND:

- PROPERTY LINE
- EXISTING EASEMENT
- GAS
- EXISTING GAS LINE
- TELE
- EXISTING TELEPHONE LINE
- X - X - X
- EXISTING FENCE LINE
- EXISTING SECTION LINE
- EXISTING SWALE
- OHE
- EXISTING OVERHEAD ELECTRIC
- EXISTING TELEPHONE POLE
- 5250-
- EXISTING MAJOR CONTOUR
- 5250-
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- FLOW ARROW
- PROPOSED 100-YR FLOODPLAIN

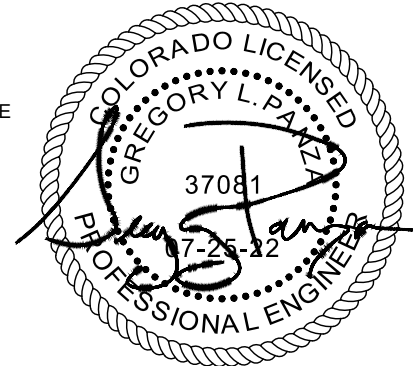
- EXISTING 100-YR FLOODPLAIN
- EXISTING WETLANDS - JURISDICTIONAL
- EXISTING WETLANDS - NONJURISDICTIONAL
- PROPOSED MAINTENANCE TRAIL

#### BMP LEGEND:

- LOC LIMITS OF CONSTRUCTION
- SM SEEDING AND MULCHING
- ECB EROSION CONTROL BLANKET
- RS ROCK SOCK



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PHONE: 720.602.4999  
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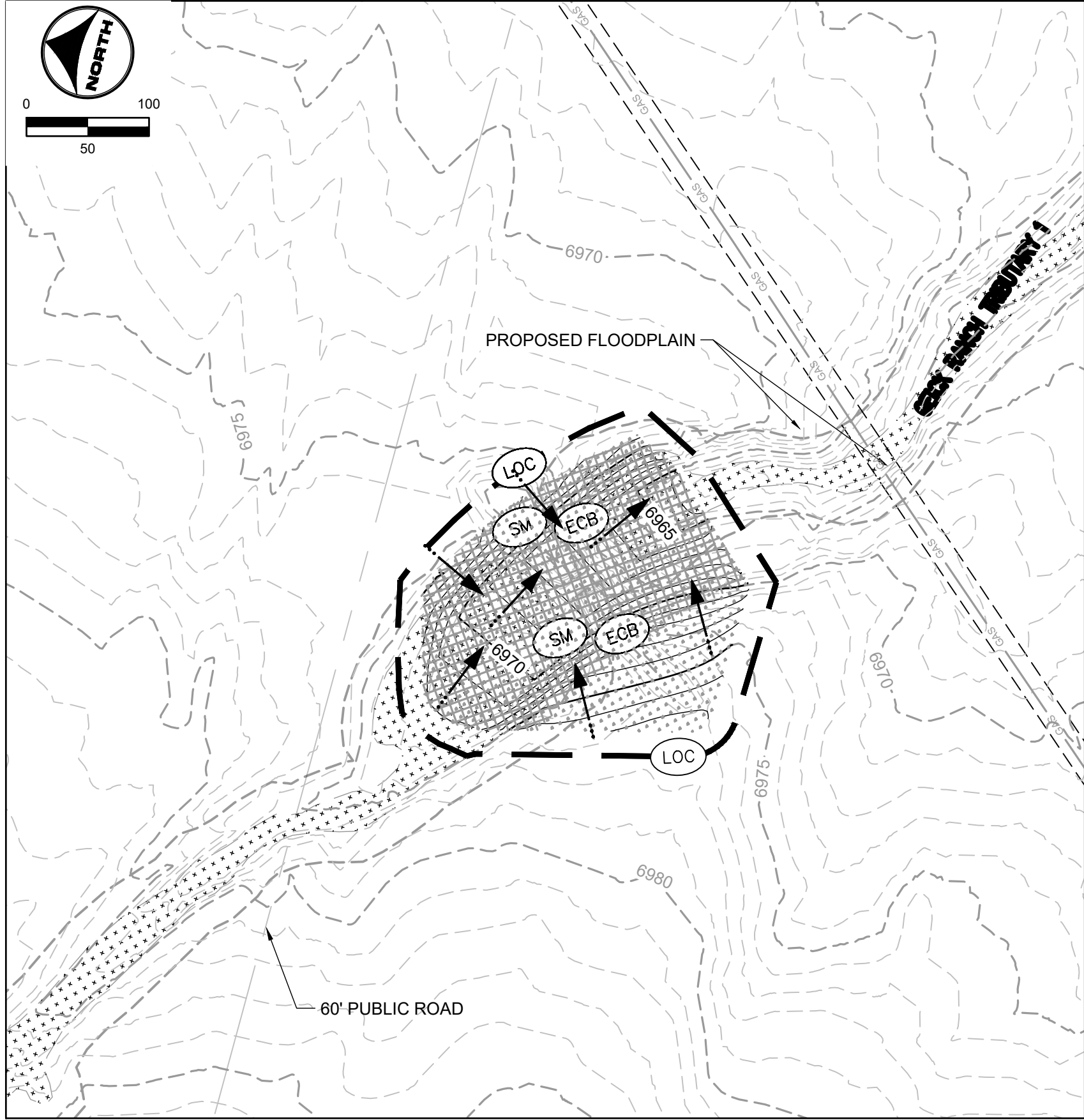
GRANDVIEW RESERVE  
DR HORTON  
FALCON, COLORADO

CONSTRUCTION DOCUMENTS  
FINAL EROSION CONTROL

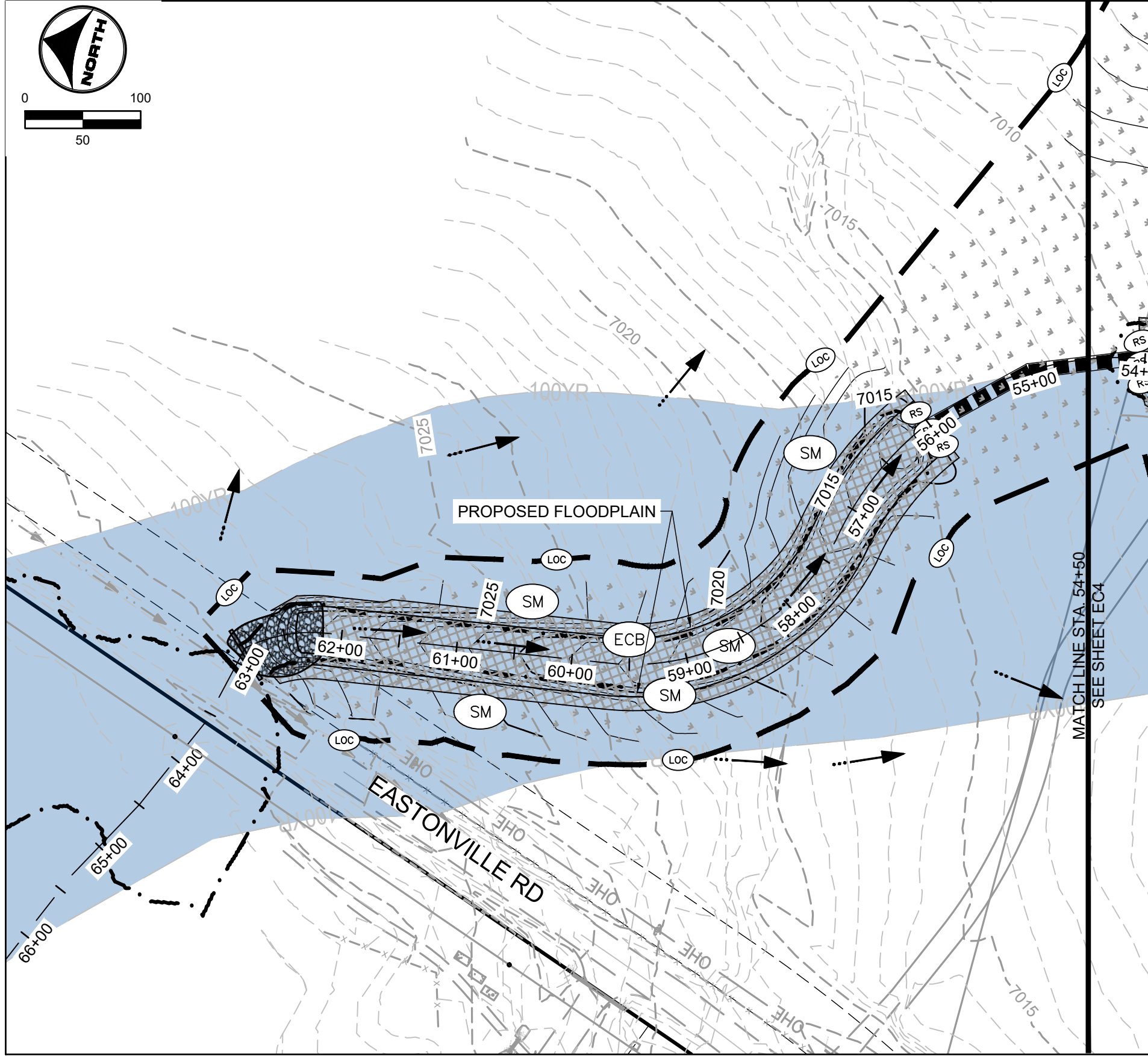
SHEET  
EC5

28

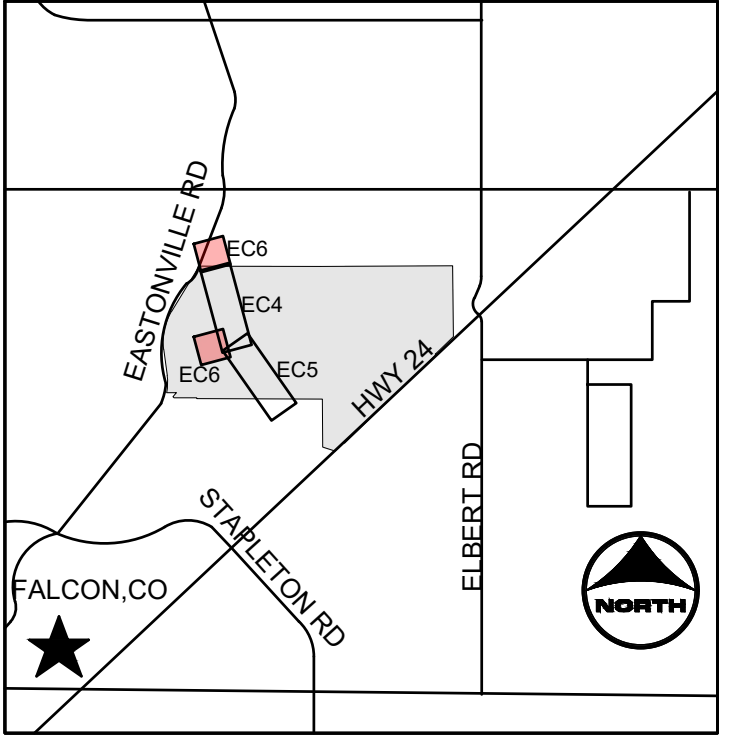




TRIBUTARY 1



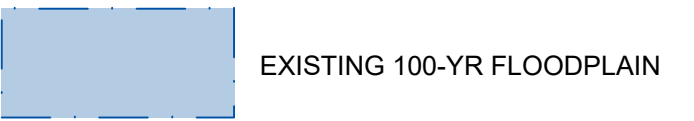
TRIBUTARY 2



KEYMAP

PROJECT LEGEND:

- PROPERTY LINE
- EXISTING EASEMENT
- GAS
- EXISTING GAS LINE
- TELE
- EXISTING TELEPHONE LINE
- X - X - X
- EXISTING FENCE LINE
- EXISTING SECTION LINE
- EXISTING SWALE
- OHE
- EXISTING OVERHEAD ELECTRIC
- EXISTING TELEPHONE POLE
- - - 5250
- EXISTING MAJOR CONTOUR
- - -
- EXISTING MINOR CONTOUR
- 5250
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- Flow Arrow
- PROPOSED 100-YR FLOODPLAIN

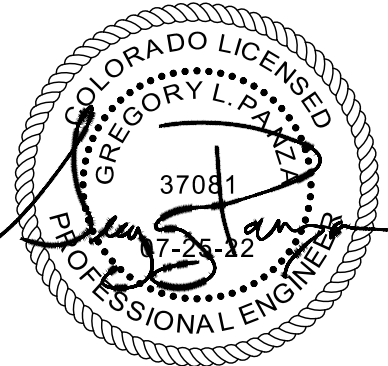


BMP LEGEND:

- LOC LIMITS OF CONSTRUCTION
- SM SEEDING AND MULCHING
- ECB EROSION CONTROL BLANKET
- 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:  
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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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GRANDVIEW RESERVE  
DR HORTON  
FALCON, COLORADO

CONSTRUCTION DOCUMENTS  
FINAL EROSION CONTROL

SHEET  
EC6

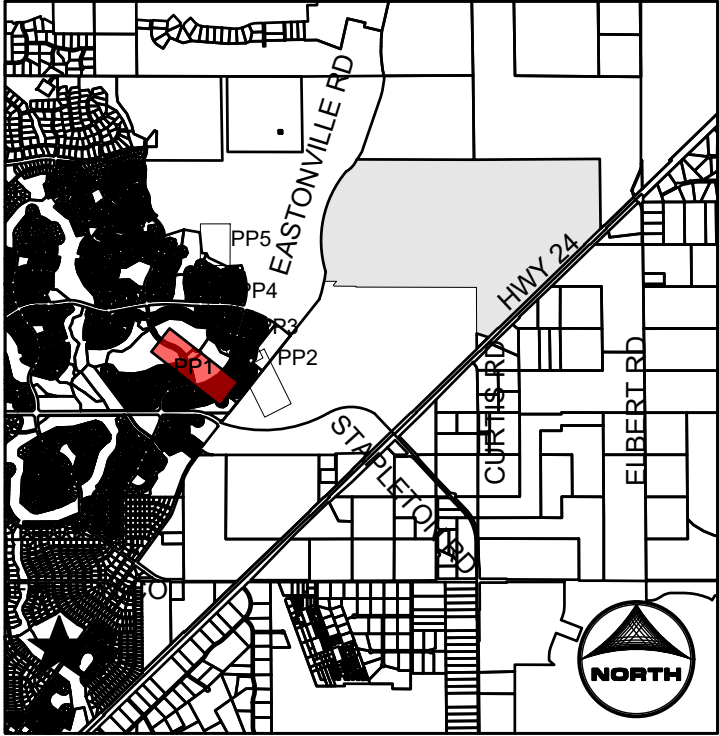
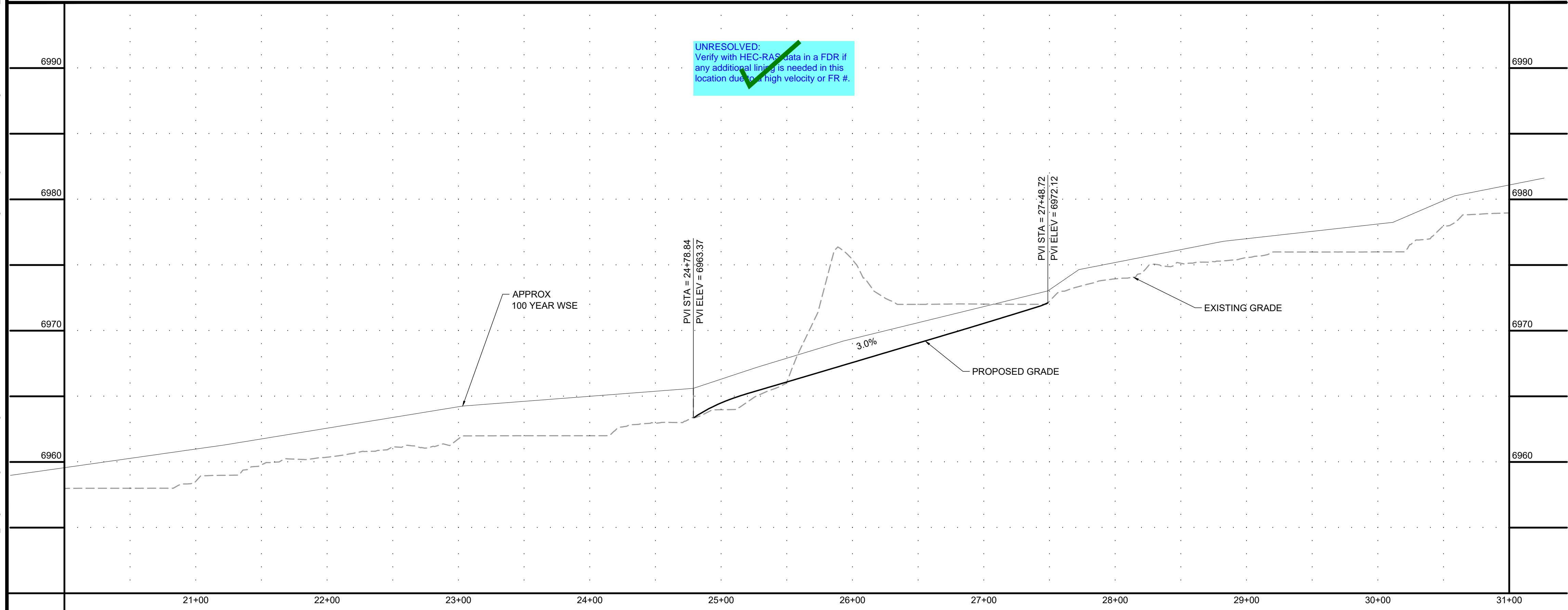
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HR GREEN (xrefs: xgs: -dht01; P&P KEY: 01-XC-Wingwall; xc:dsign-6662; 10; xc:dsign-F1-662; 10; xc:row-F1-662; 10; xc:row-662; xc:row-F2; xc:dsign-F2; xc:dsign-F3; xc:row-F3; xc:dsign-F4; 01-XC-PR; 100YR\_PP\_DELINEATION; xc:channel; xc:filling-body; 01-XC-INITIAL-EC; xc:row-F12; xc:row-F13; 01-XC-ROW; 01-XC-Channel; xc:dsign\_662; x-cvill; 662

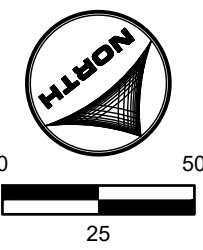


UNRESOLVED:  
Verify with HEC-RAS data in a FDR if  
any additional lining is needed in this  
location due to high velocity or FR #.

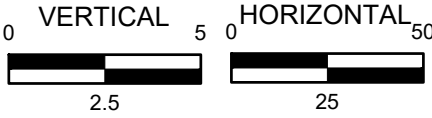
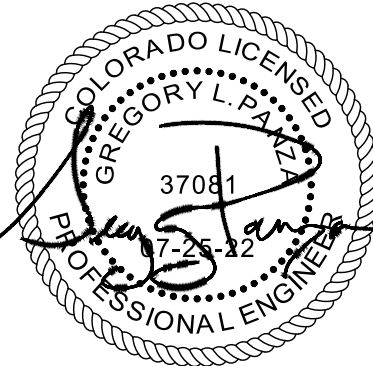


- KEYMAP**
- PROJECT LEGEND:**
- PROPERTY LINE
  - EXISTING EASEMENT
  - GAS EXISTING GAS LINE
  - TELE EXISTING TELEPHONE LINE
  - X X X EXISTING FENCE LINE
  - EXISTING SECTION LINE
  - EXISTING SWALE
  - OHE EXISTING OVERHEAD ELECTRIC
  - EXISTING TELEPHONE POLE
  - 5250 EXISTING MAJOR CONTOUR
  - EXISTING MINOR CONTOUR
  - 5250 PROPOSED MAJOR CONTOUR
  - PROPOSED MINOR CONTOUR
  - FLOW ARROW
  - LIMITS OF CONSTRUCTION
  - PROPOSED 100-YR FLOODPLAIN
  - EXISTING WETLANDS - JURISDICTIONAL
  - EXISTING WETLANDS - NONJURISDICTIONAL
  - 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
  - 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.
  - TRIBUTARY 1 TO BE CONSTRUCTED WITH FILING 1 (AREA SOUTH OF TRIBUTARY 1); TRIBUTARY 2 TO BE CONSTRUCTED WITH FILING 2 (AREA NORTH OF TRIBUTARY 1 AND SOUTHWEST OF TRIBUTARY 2). BOX CULVERTS/CROSSINGS ALONG TRIBUTARY 2 TO BE CONSTRUCTED WITH TRIBUTARY IMPROVEMENTS.



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



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GRANDVIEW RESERVE  
DR HORTON  
FALCON, COLORADO

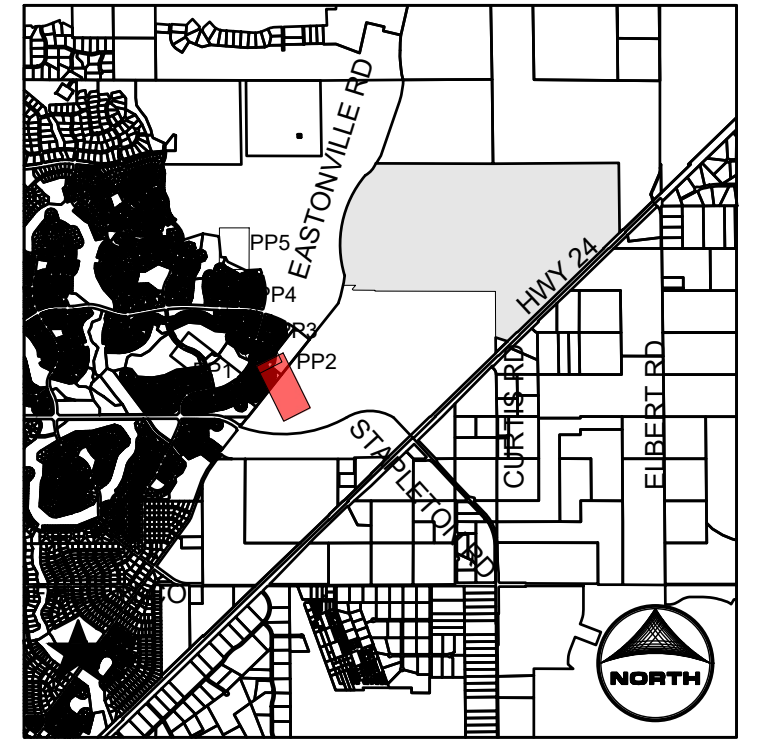
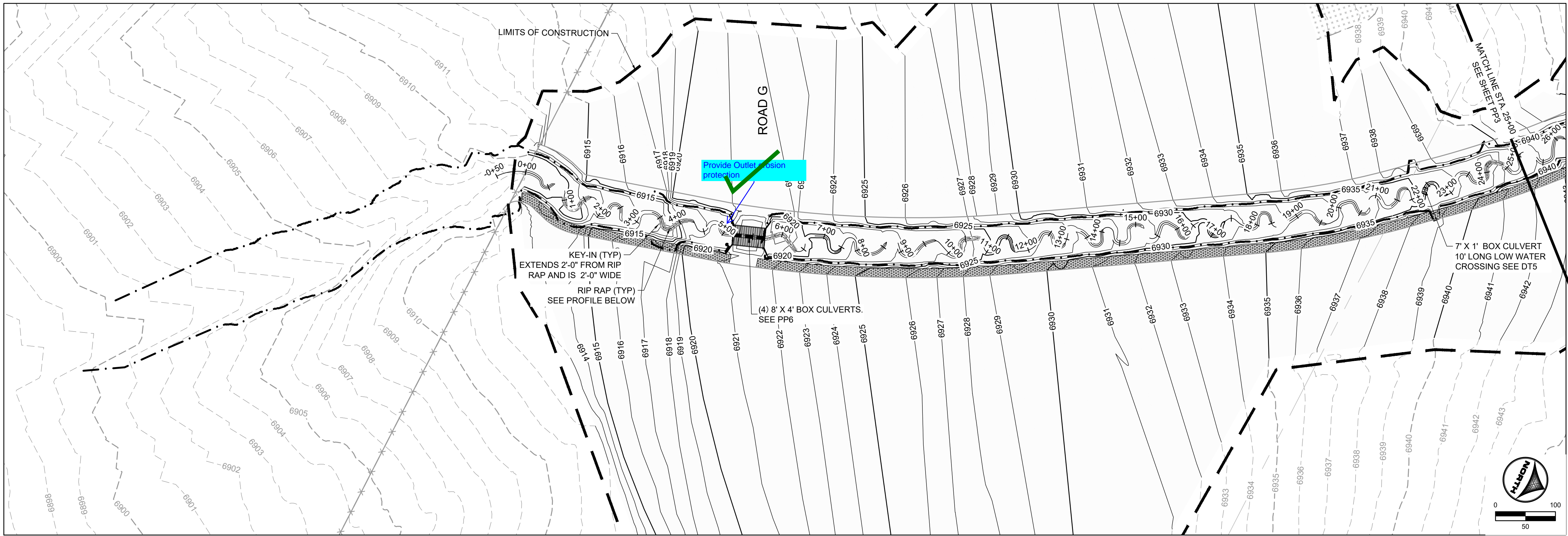
CONSTRUCTION DOCUMENTS  
DRAINAGE TRIBUTARY 1 PLAN AND PROFILE

SHEET  
PP1

30



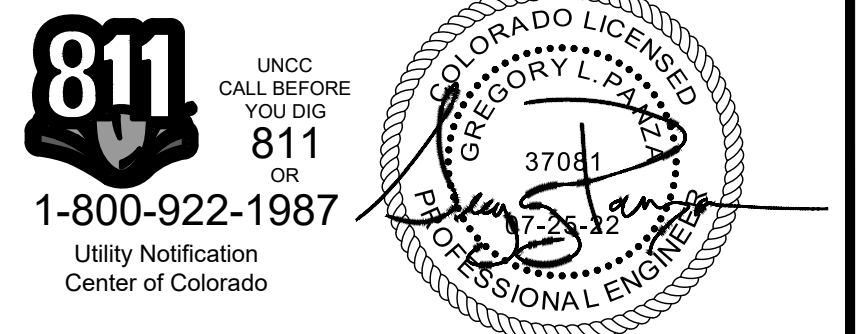
HR GREEN - DENVER 5613 DTC PARKWAY SUITE 950 DENVER CO 80111 PHONE: 720.602.4999 FAX: 713.965.0044



- KEYMAP**
- PROJECT LEGEND:**
- PROPERTY LINE
  - EXISTING EASEMENT
  - EXISTING GAS LINE
  - EXISTING TELEPHONE LINE
  - EXISTING FENCE LINE
  - EXISTING SECTION LINE
  - EXISTING SWALE
  - EXISTING OVERHEAD ELECTRIC
  - EXISTING TELEPHONE POLE
  - EXISTING MAJOR CONTOUR
  - EXISTING MINOR CONTOUR
  - PROPOSED MAJOR CONTOUR
  - PROPOSED MINOR CONTOUR
  - FLOW ARROW
  - LIMITS OF CONSTRUCTION
  - PROPOSED 100-YR FLOODPLAIN
  - EXISTING WETLANDS - JURISDICTIONAL
  - EXISTING WETLANDS - NONJURISDICTIONAL
  - PROPOSED MAINTENANCE TRAIL

Add blue hatching back for effective 100-yr floodplain, as used on previous submittal (all P&P sheets)

- 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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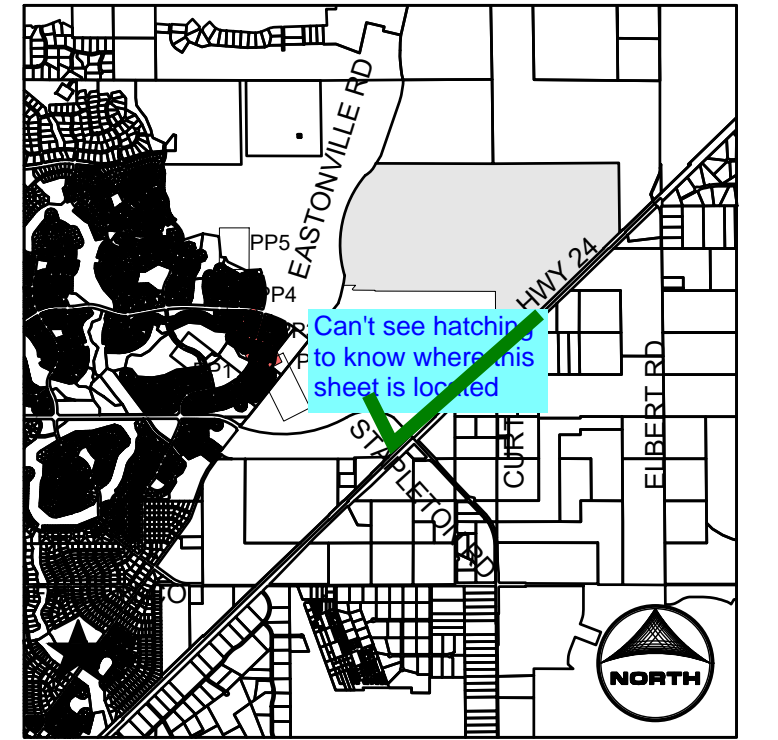
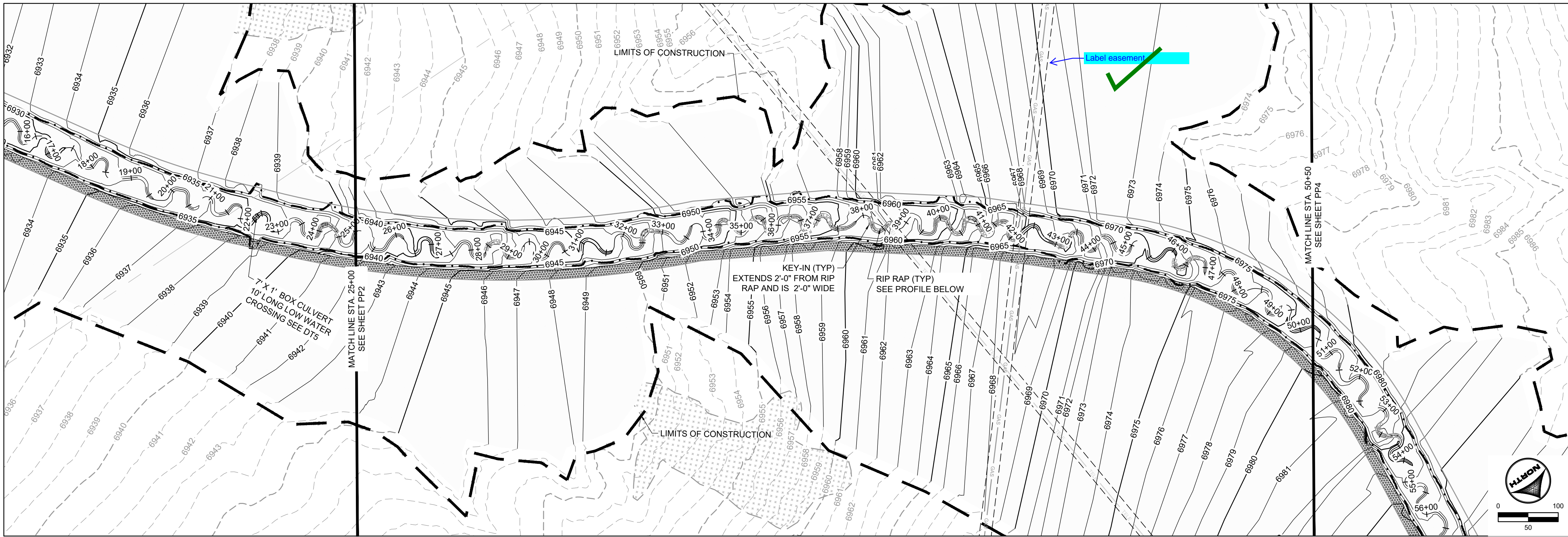
**GRANDVIEW RESERVE**  
**DR HORTON**  
FALCON, COLORADO

CONSTRUCTION DOCUMENTS  
DRAINAGE TRIBUTARY 2 PLAN AND PROFILE

SHEET  
PP2  
31

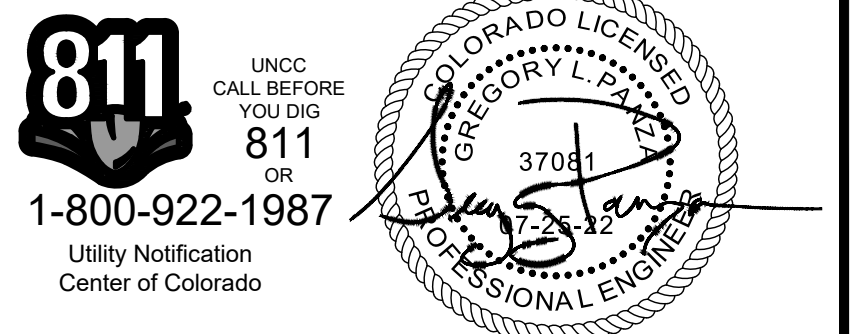


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- KEYMAP**
- PROJECT LEGEND:**
- PROPERTY LINE
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  - EXISTING GAS LINE
  - EXISTING TELEPHONE LINE
  - EXISTING FENCE LINE
  - EXISTING SECTION LINE
  - EXISTING SWALE
  - EXISTING OVERHEAD ELECTRIC
  - EXISTING TELEPHONE POLE
  - EXISTING MAJOR CONTOUR
  - EXISTING MINOR CONTOUR
  - PROPOSED MAJOR CONTOUR
  - PROPOSED MINOR CONTOUR
  - FLOW ARROW
  - LIMITS OF CONSTRUCTION
  - PROPOSED 100-YR FLOODPLAIN
  - EXISTING WETLANDS - JURISDICTIONAL
  - EXISTING WETLANDS - NONJURISDICTIONAL
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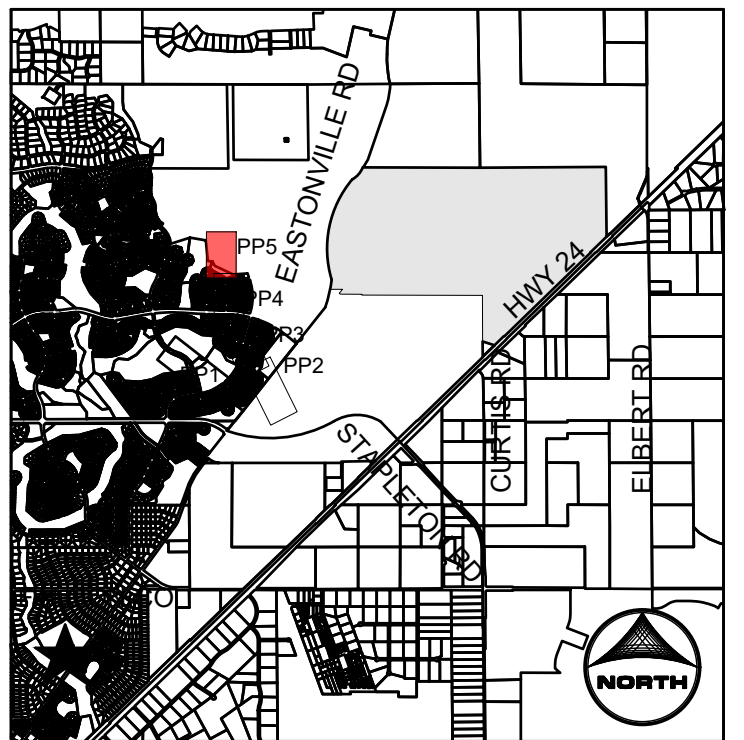
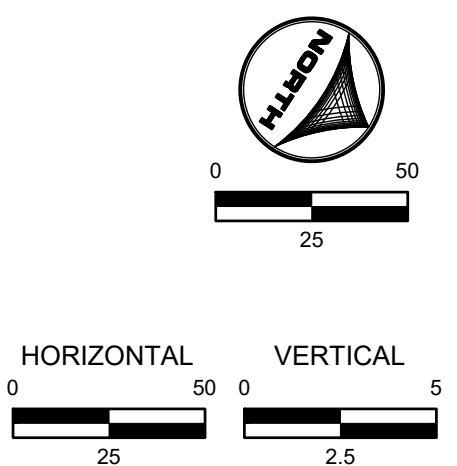
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DRAINAGE TRIBUTARY 2 PLAN AND PROFILE

SHEET  
PP3  
32









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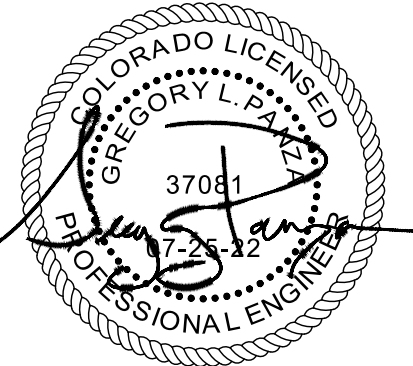
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|--|---------------------------------------|
|  | PROPERTY LINE                         |
|  | EXISTING EASEMENT                     |
|  | EXISTING GAS LINE                     |
|  | EXISTING TELEPHONE LINE               |
|  | EXISTING FENCE LINE                   |
|  | EXISTING SECTION LINE                 |
|  | EXISTING SWALE                        |
|  | EXISTING OVERHEAD ELECTRIC            |
|  | EXISTING TELEPHONE POLE               |
|  | EXISTING MAJOR CONTOUR                |
|  | EXISTING MINOR CONTOUR                |
|  | PROPOSED MAJOR CONTOUR                |
|  | PROPOSED MINOR CONTOUR                |
|  | FLOW ARROW                            |
|  | LIMITS OF CONSTRUCTION                |
|  | PROPOSED 100-YR FLOODPLAIN            |
|  | EXISTING WETLANDS - JURISDICTIONAL    |
|  | EXISTING WETLANDS - NONJURISDICTIONAL |
|  | 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.
2. **BENCHMARK:**  
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PID = JK0240  
DESCRIPTION = DISK ON TOP OF CONCRETE MONUMENT  
CONTROL POINT COORDINATE SYSTEM:  
NAV/D88  
NORTHING: 1421049.80  
EASTING: 3273631.55  
ELEVATION: 6866.33
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CONSTRUCTION DOCUMENTS

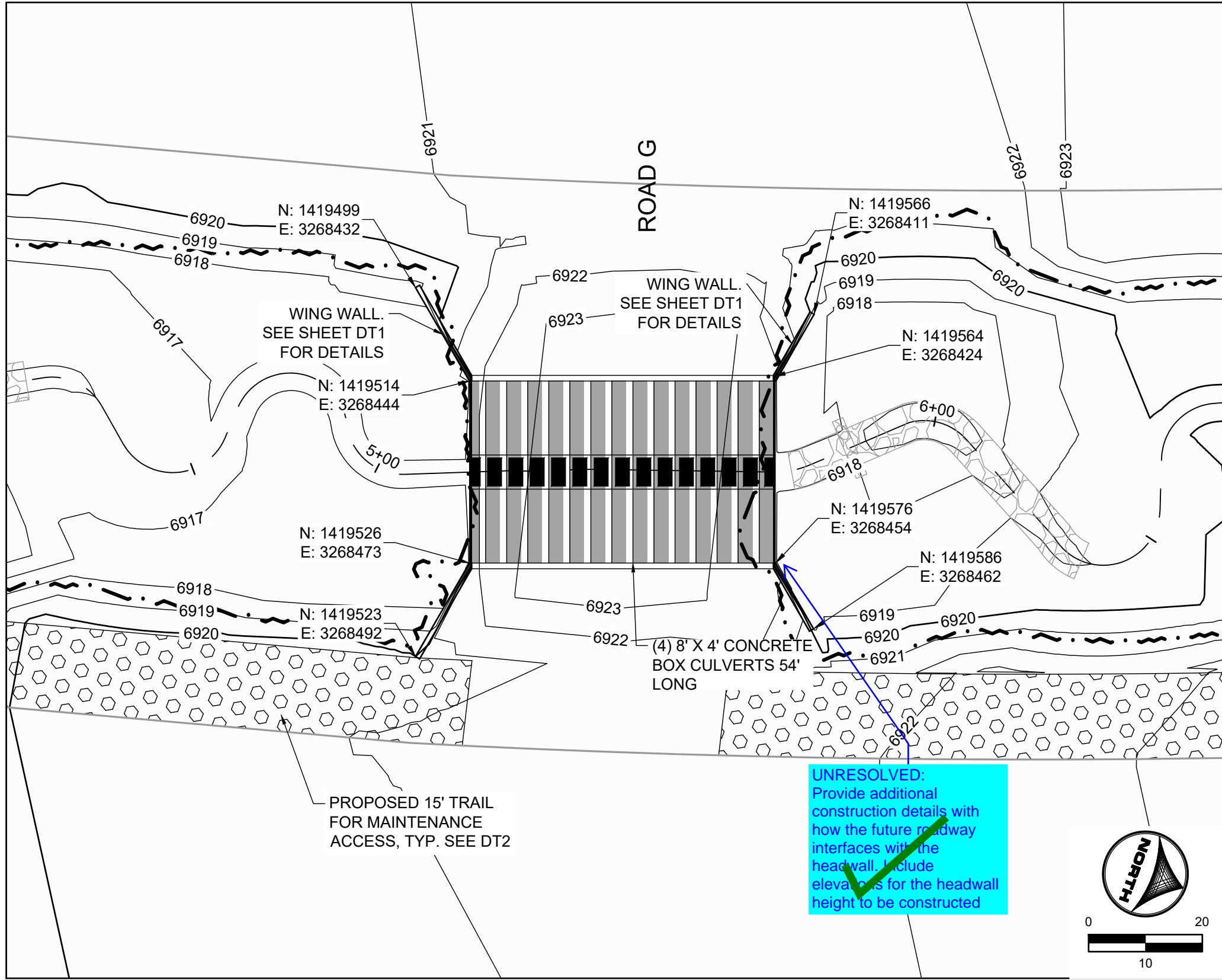
DRAINAGE TRIBUTARY 2 PLAN AND PROFILE

SHEET  
PP5

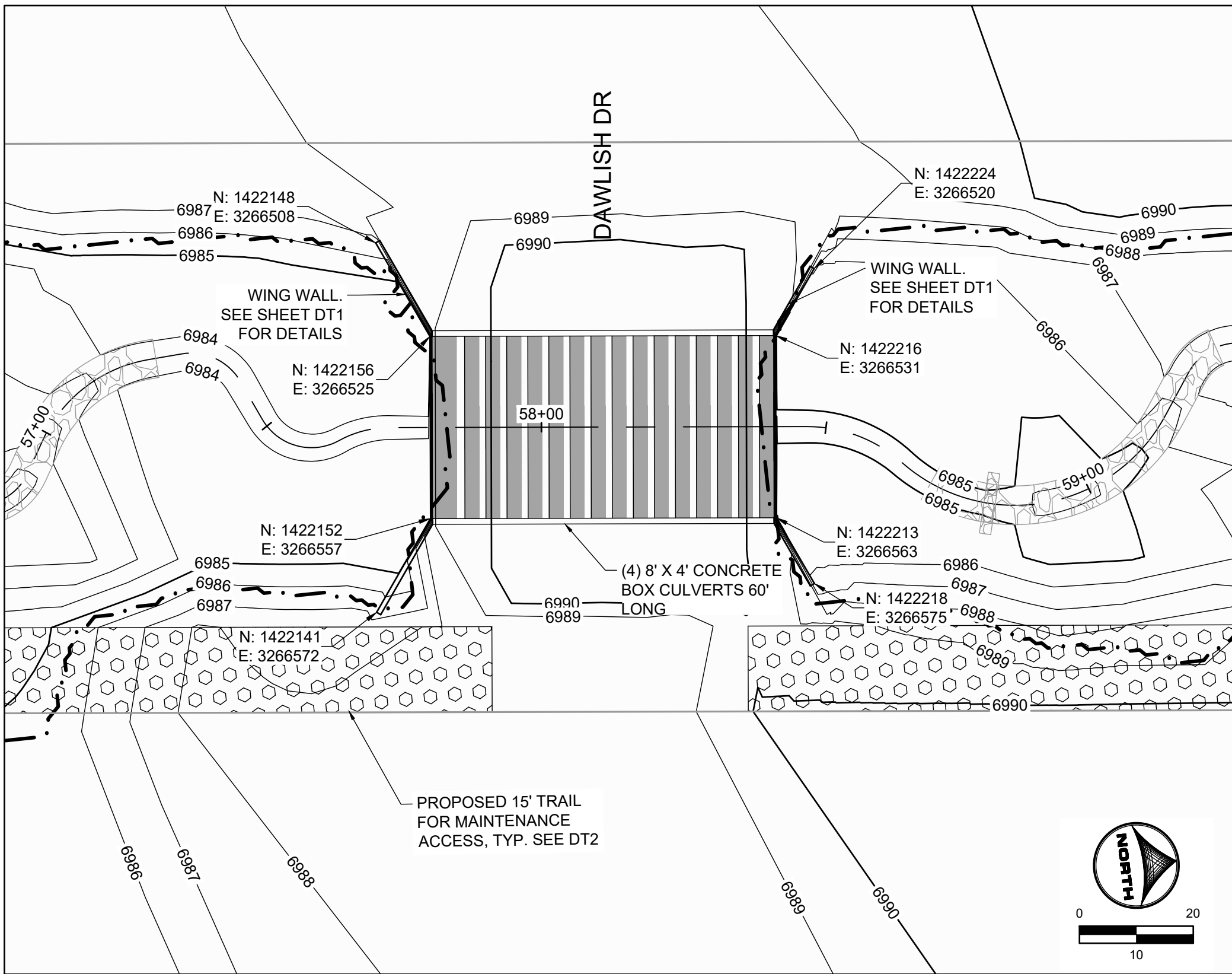
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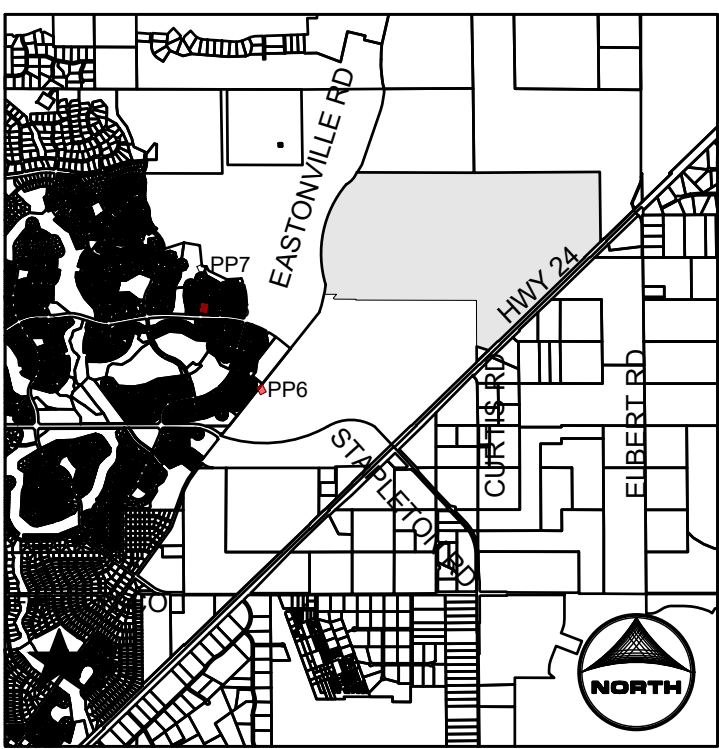
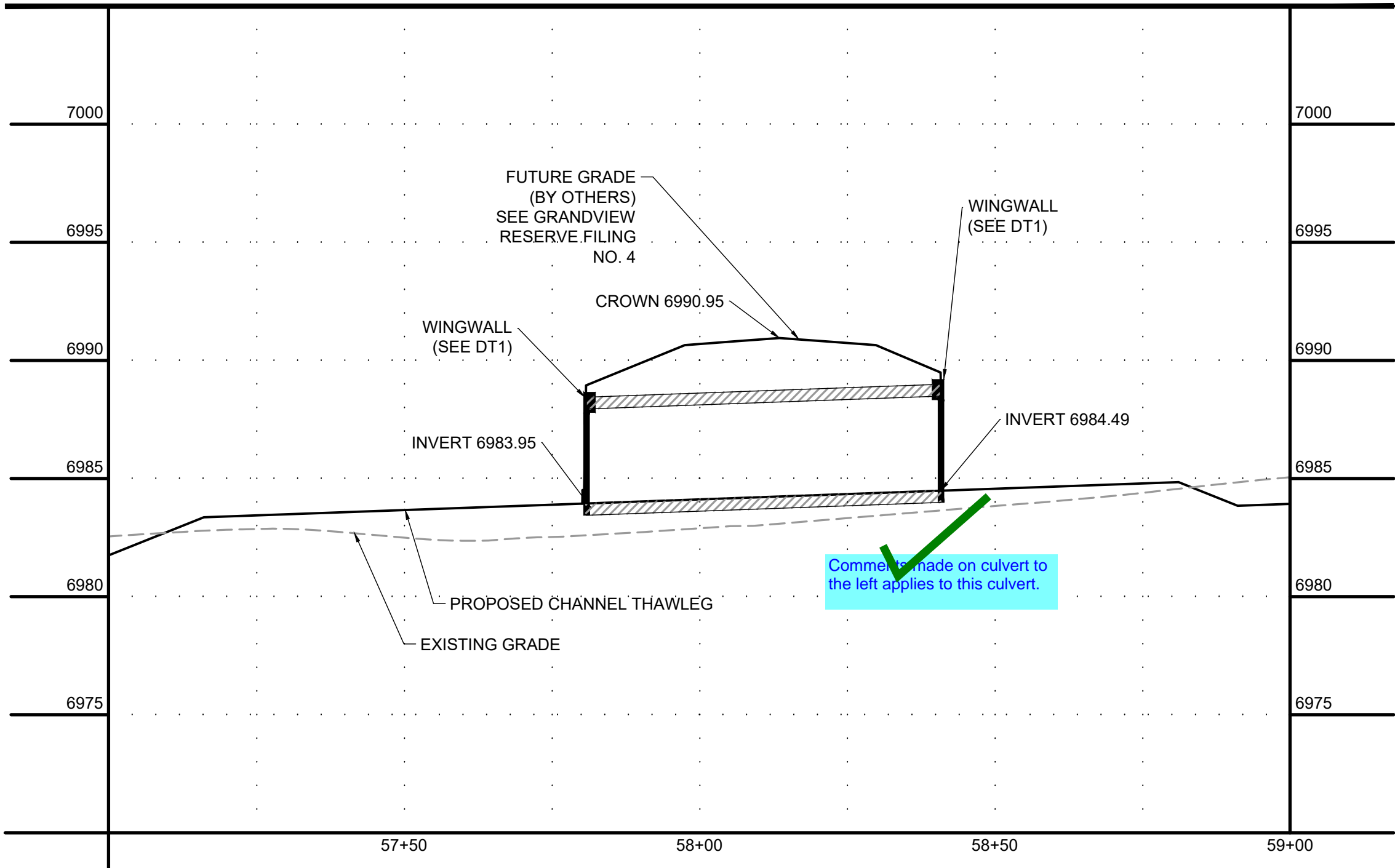
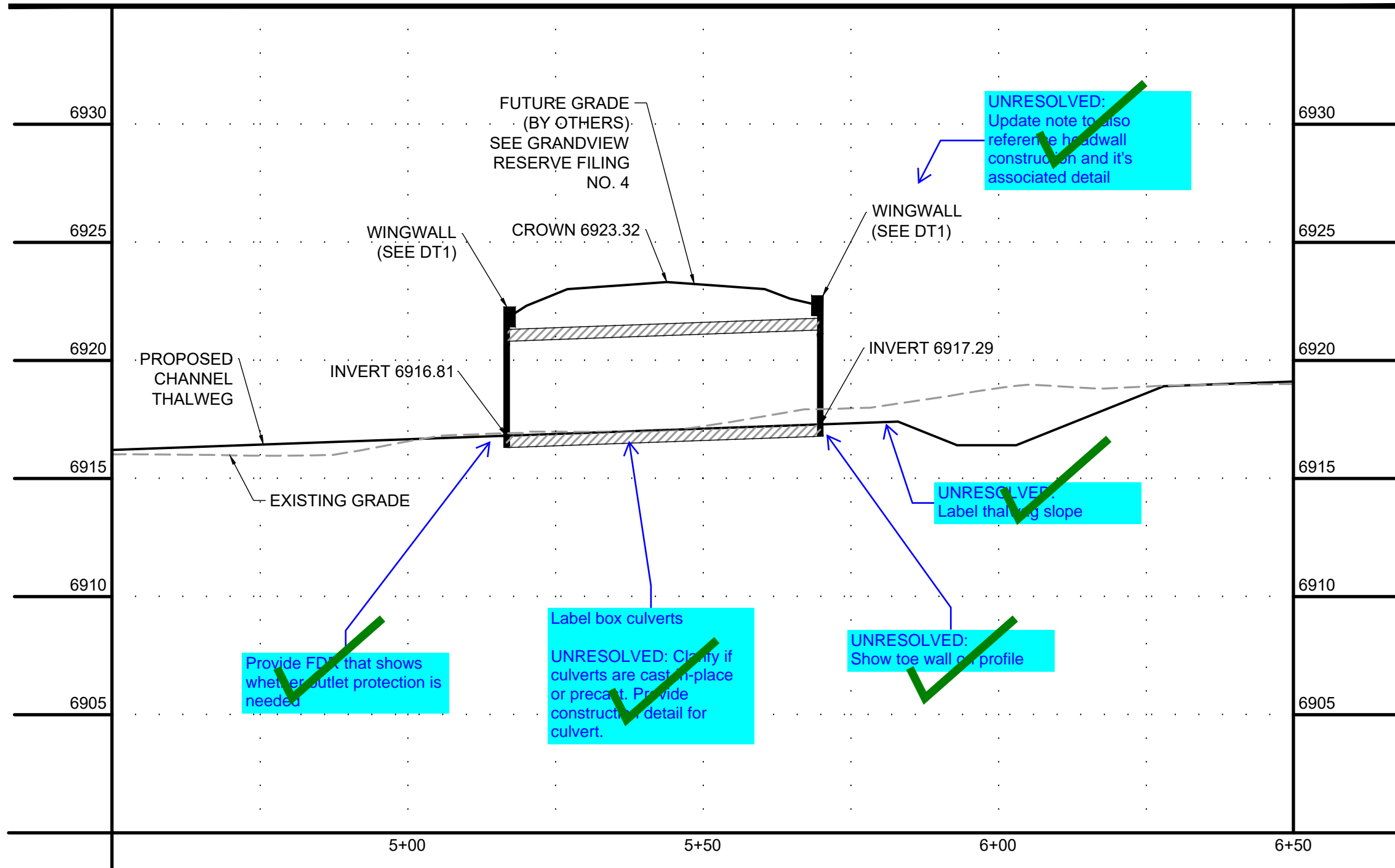
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ROAD G CULVERT CROSSING

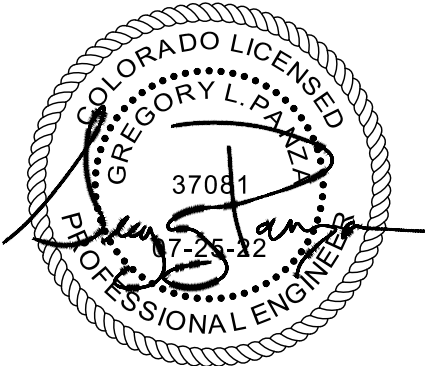


DAWLISH DR CULVERT CROSSING



- KEYMAP**
- PROJECT LEGEND:**
- PROPERTY LINE
  - EXISTING EASEMENT
  - EXISTING GAS LINE
  - EXISTING TELEPHONE LINE
  - EXISTING FENCE LINE
  - EXISTING SECTION LINE
  - EXISTING SWALE
  - EXISTING OVERHEAD ELECTRIC
  - EXISTING TELEPHONE POLE
  - EXISTING MAJOR CONTOUR
  - EXISTING MINOR CONTOUR
  - PROPOSED MAJOR CONTOUR
  - PROPOSED MINOR CONTOUR
  - FLOW ARROW
  - LIMITS OF CONSTRUCTION
  - PROPOSED 100-YR FLOODPLAIN
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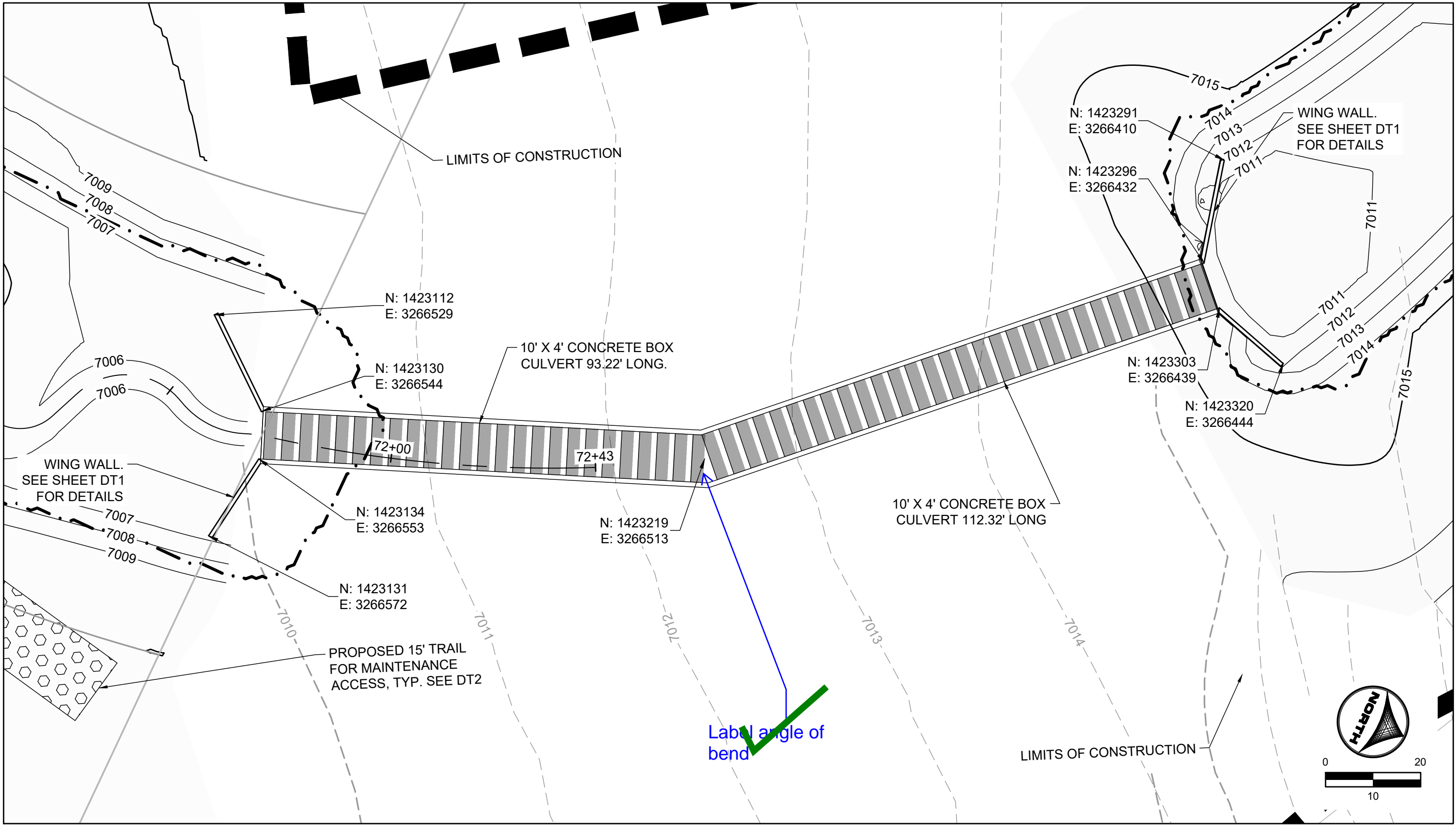
CONSTRUCTION DOCUMENTS  
DRAINAGE CULVERTS PLAN AND PROFILE

SHEET  
PP6

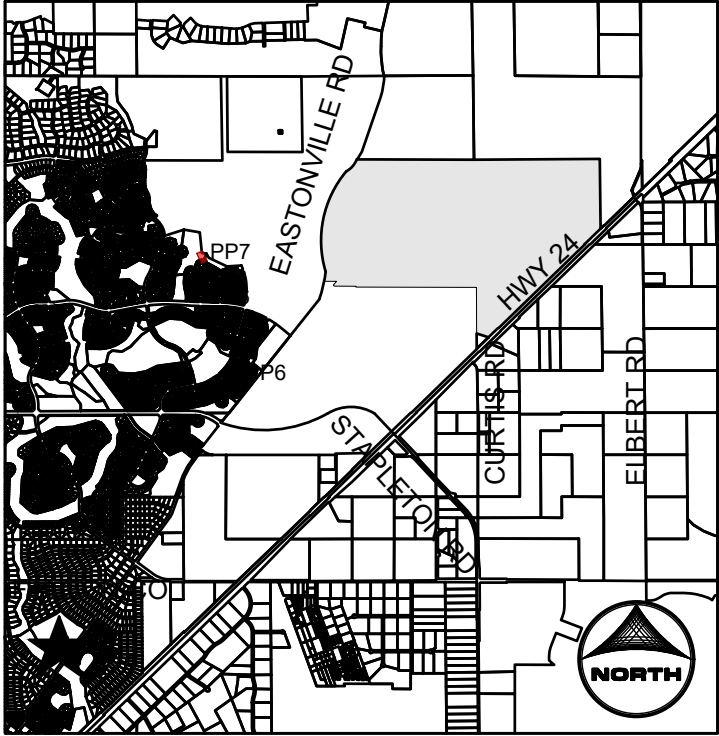
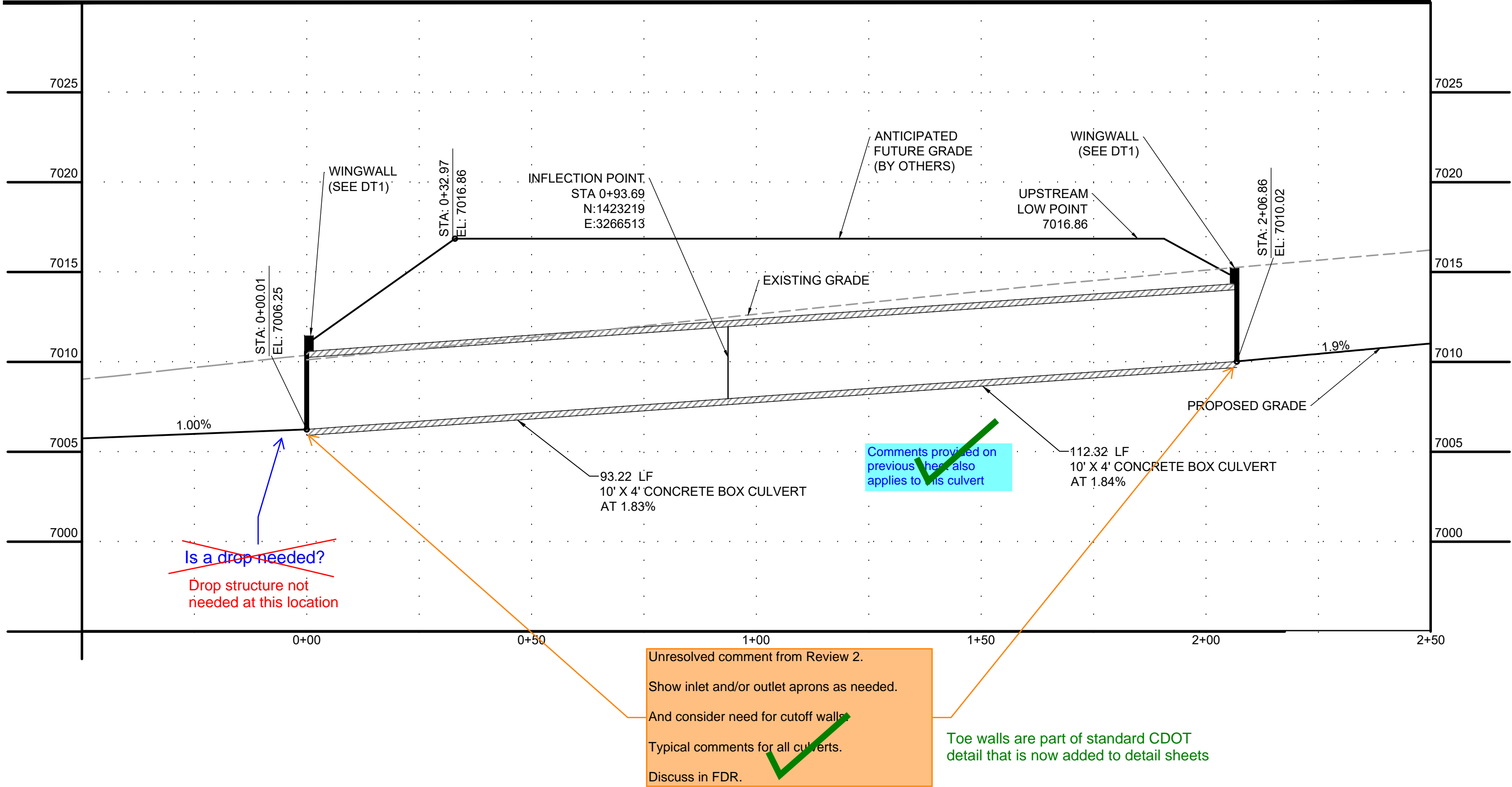
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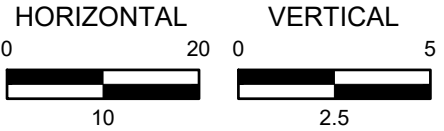
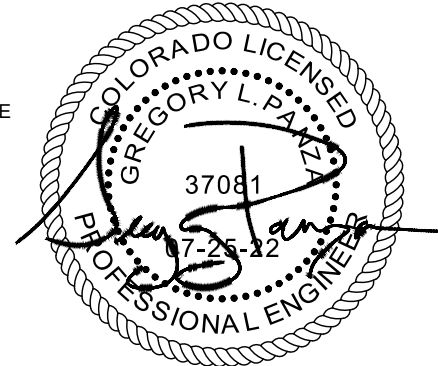


REX ROAD CULVERT CROSSING



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  - EXISTING GAS LINE
  - EXISTING TELEPHONE LINE
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  - EXISTING OVERHEAD ELECTRIC
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  - PROPOSED MINOR CONTOUR
  - FLOW ARROW
  - LIMITS OF CONSTRUCTION
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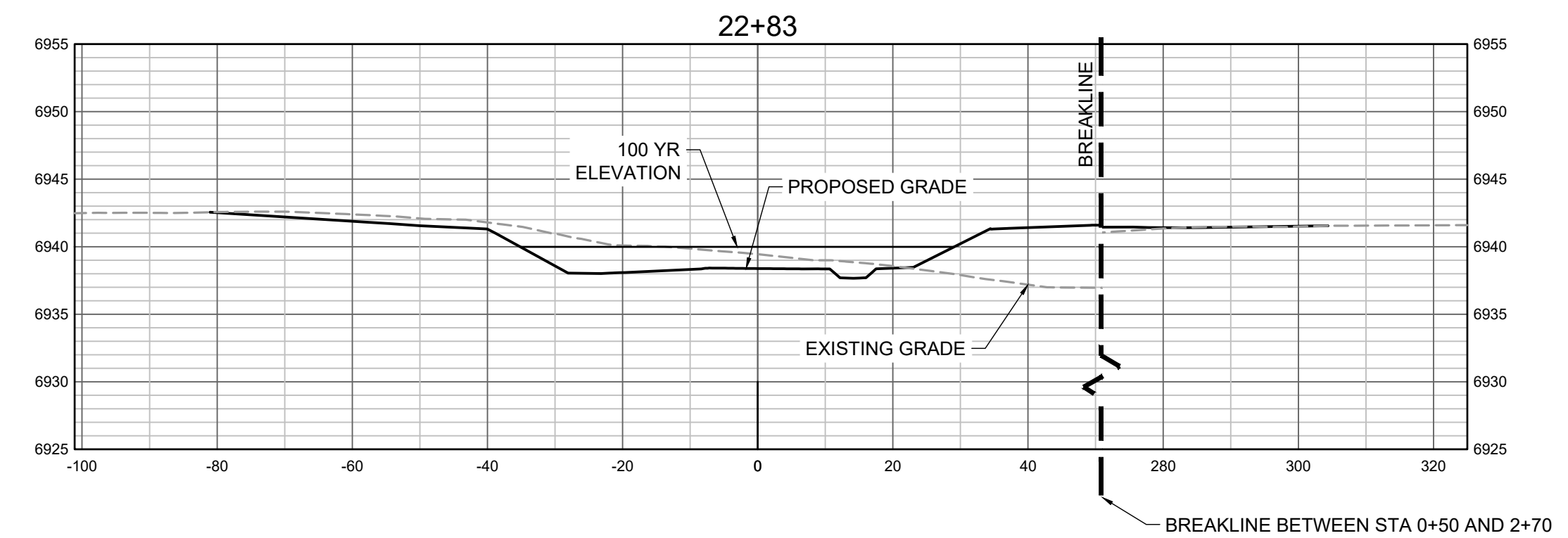
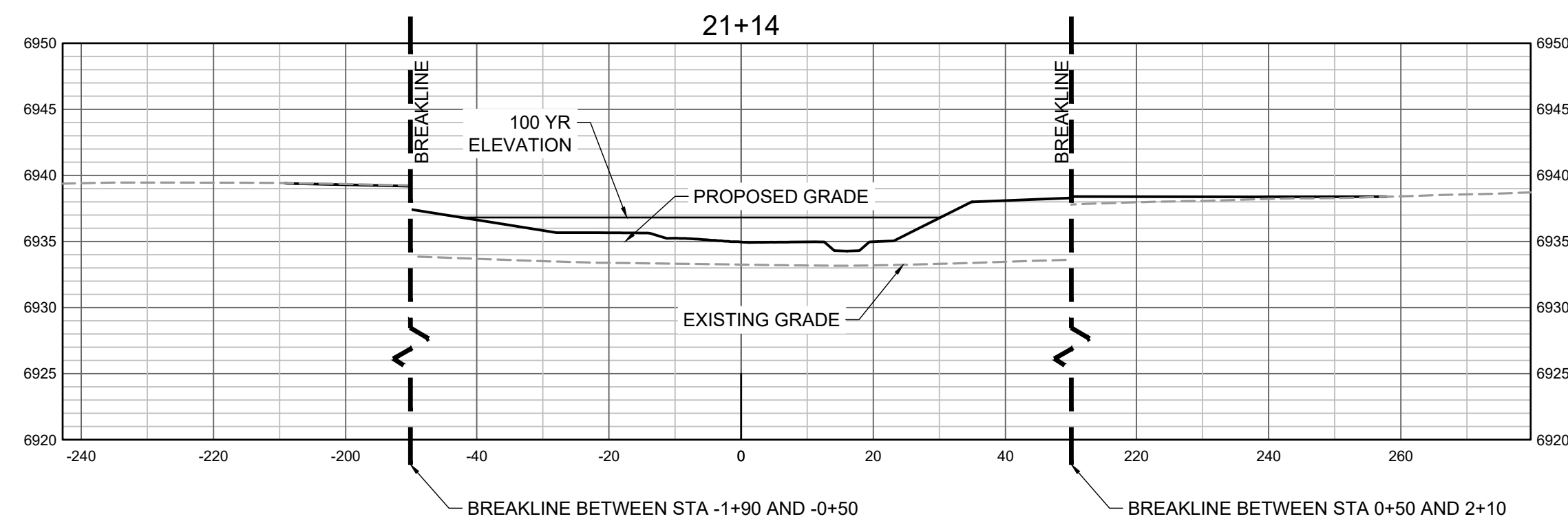
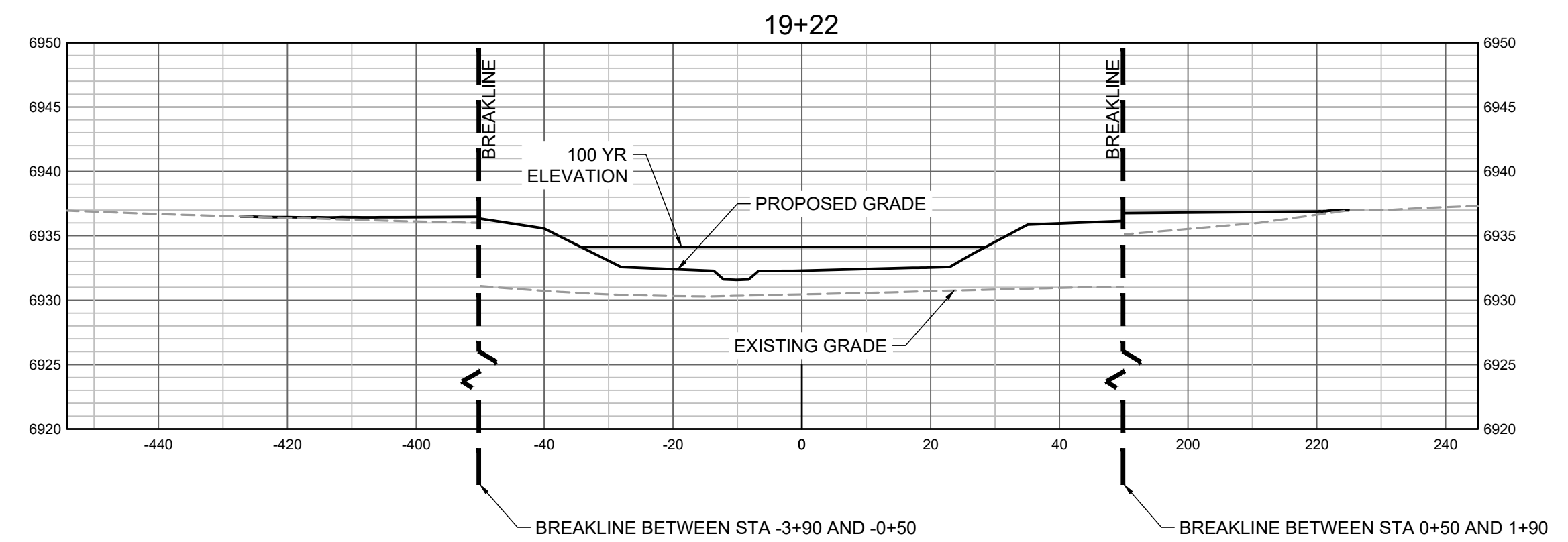
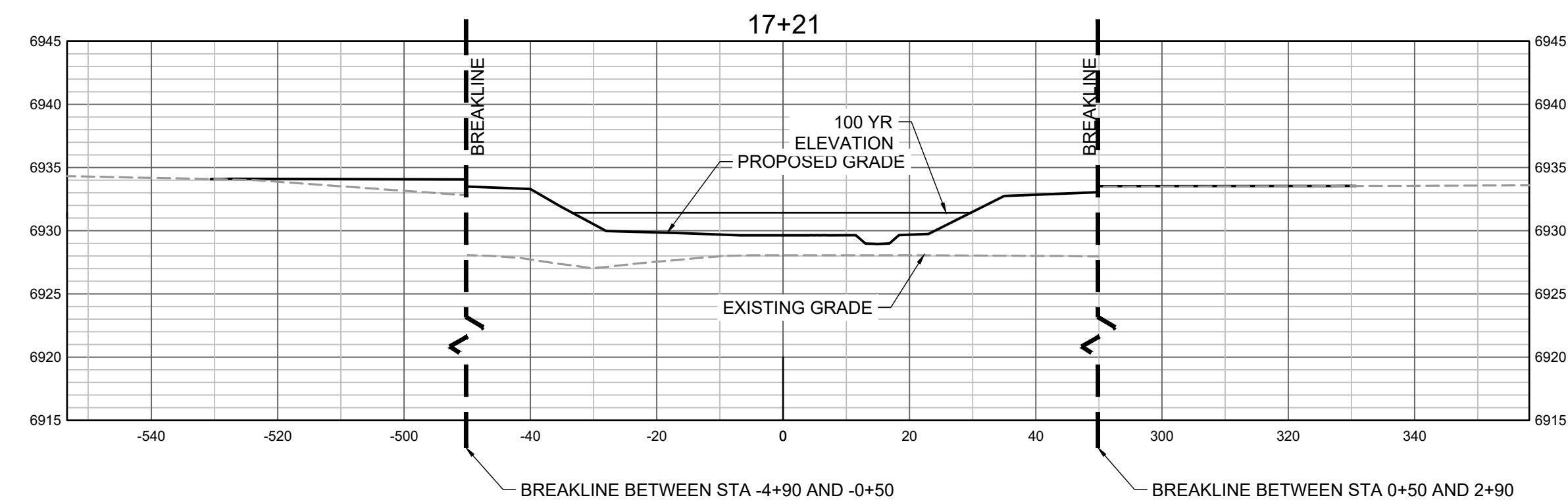
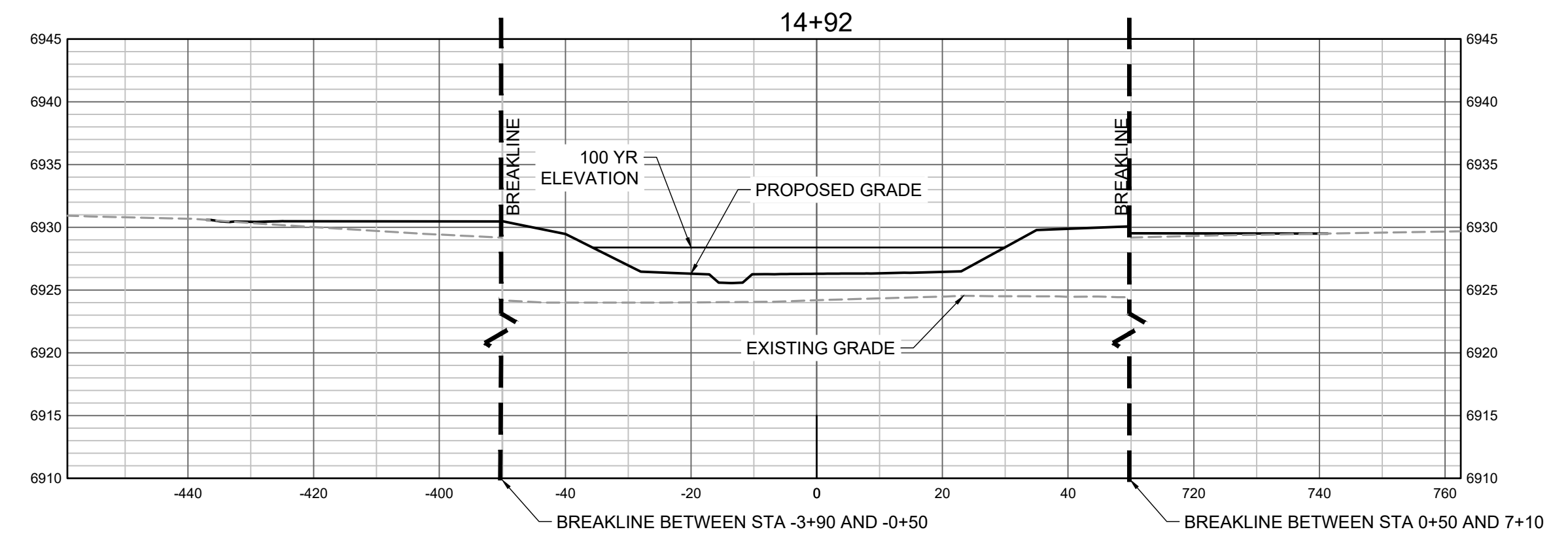
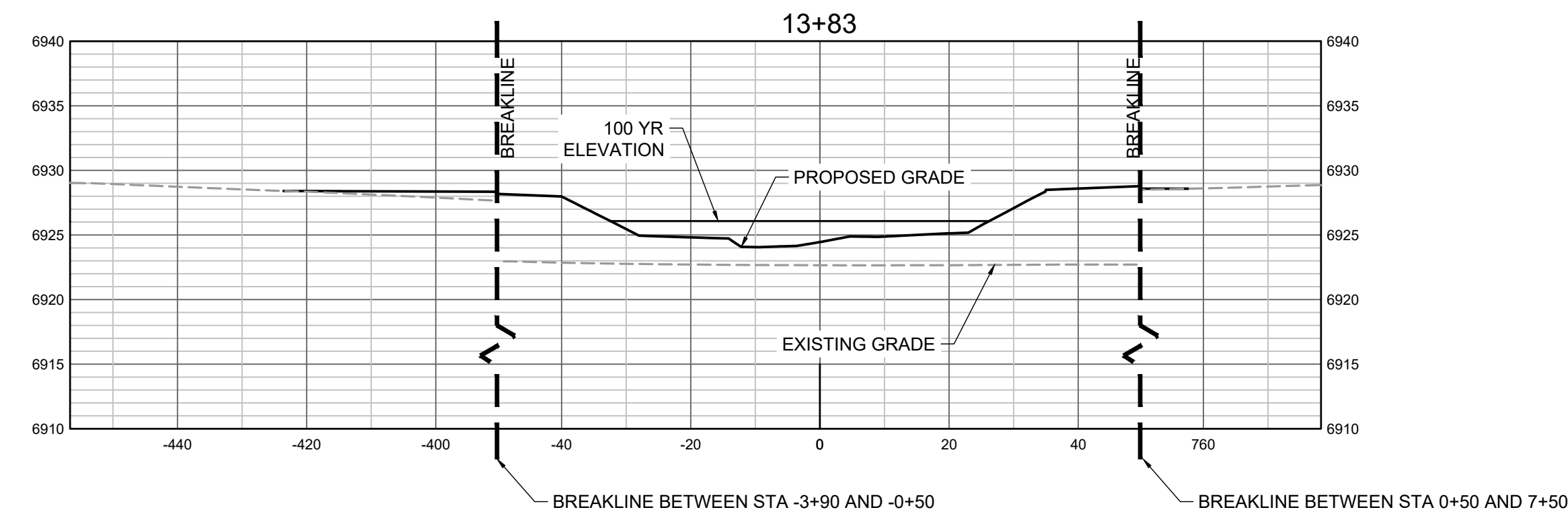
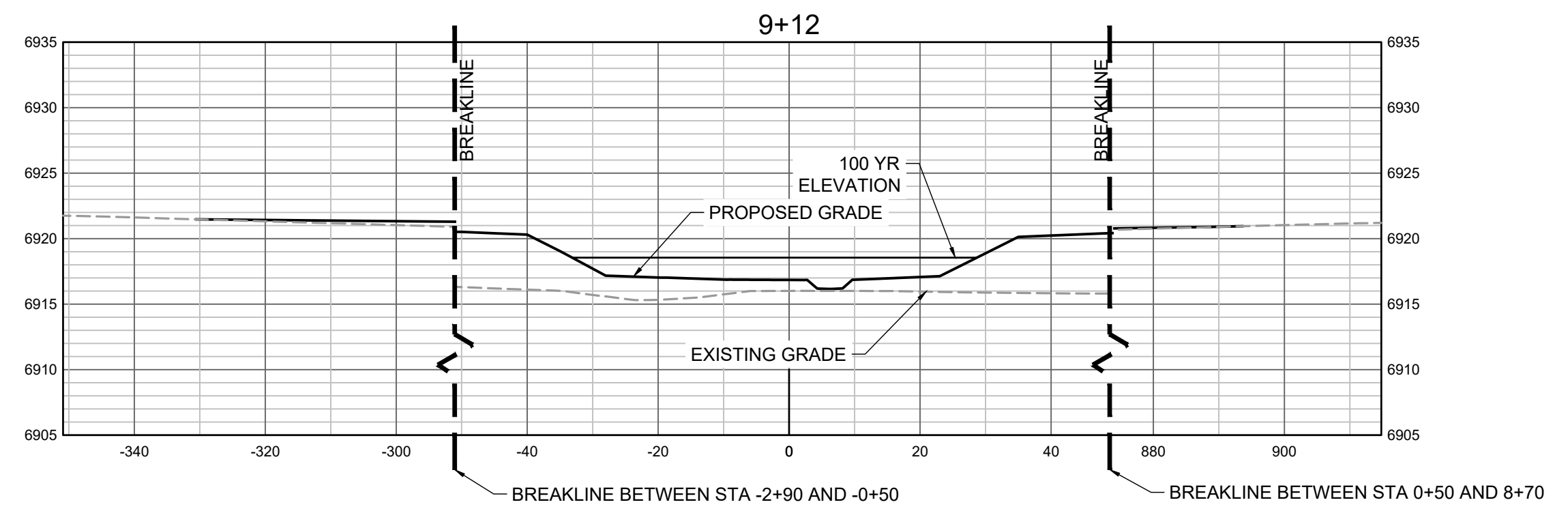
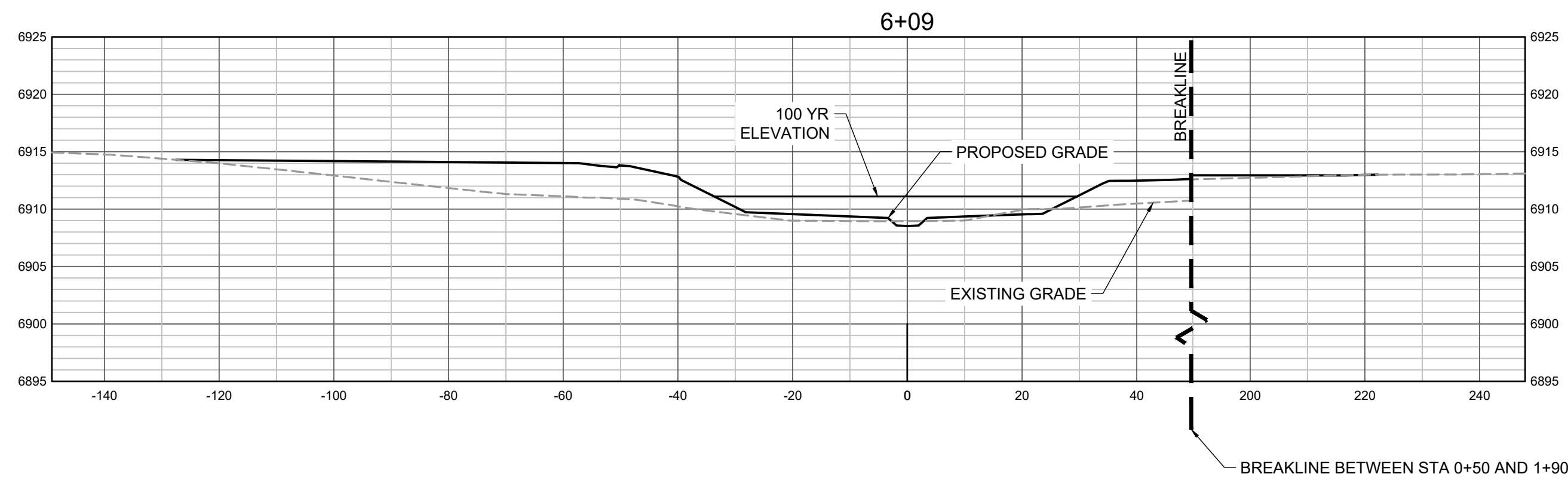
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DRAINAGE CULVERT PLAN AND PROFILE

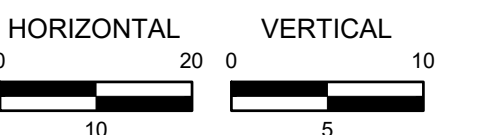
SHEET  
PP7

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.



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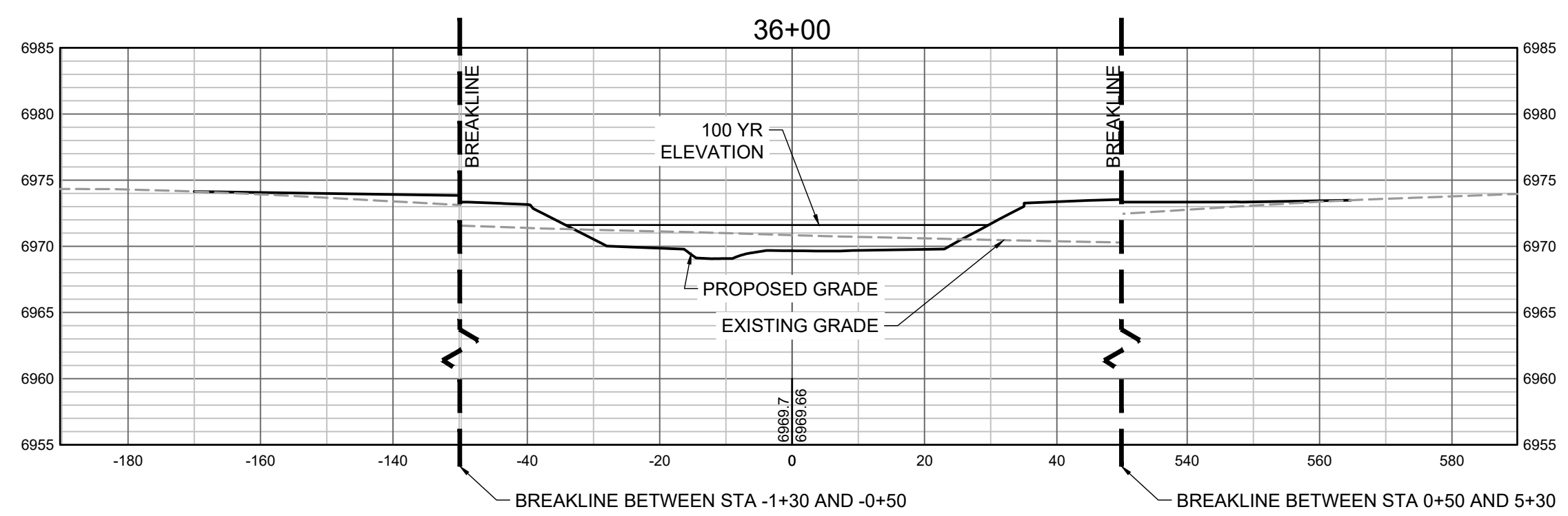
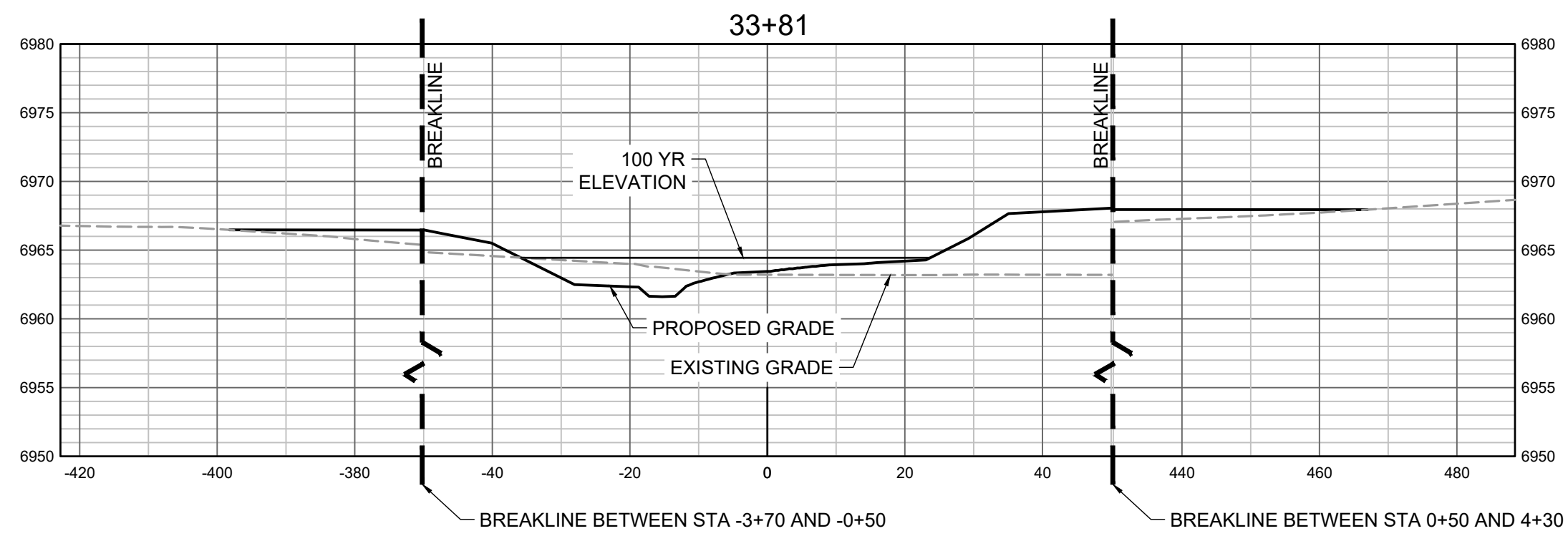
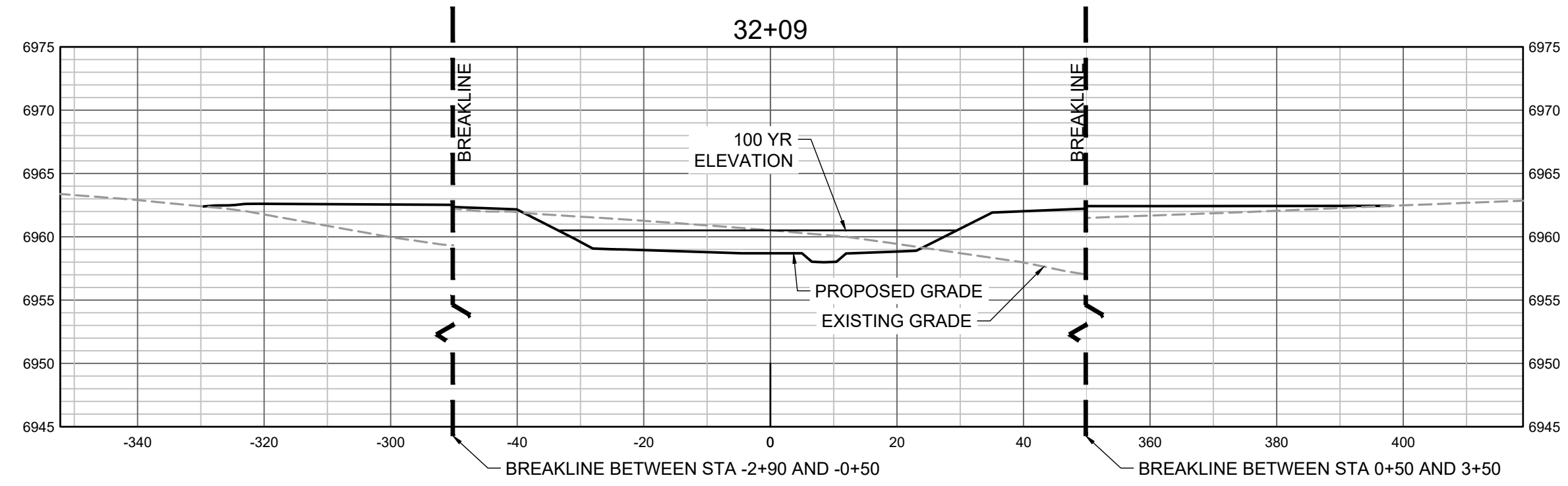
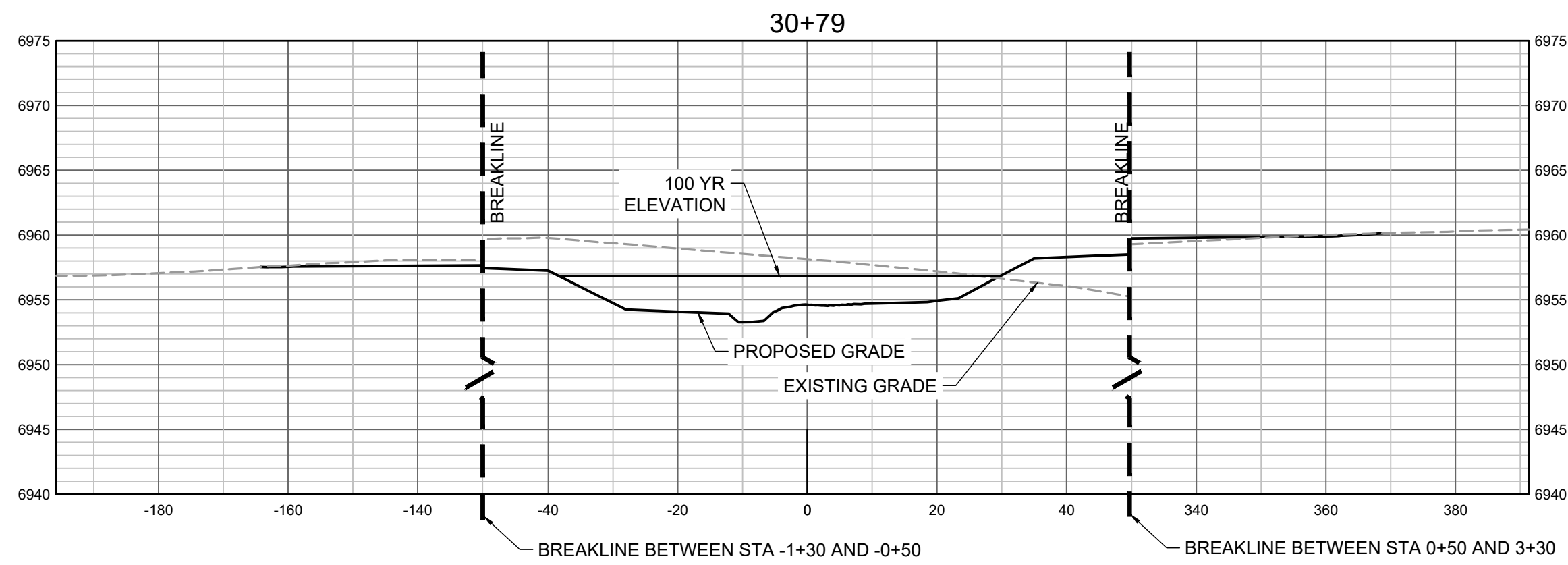
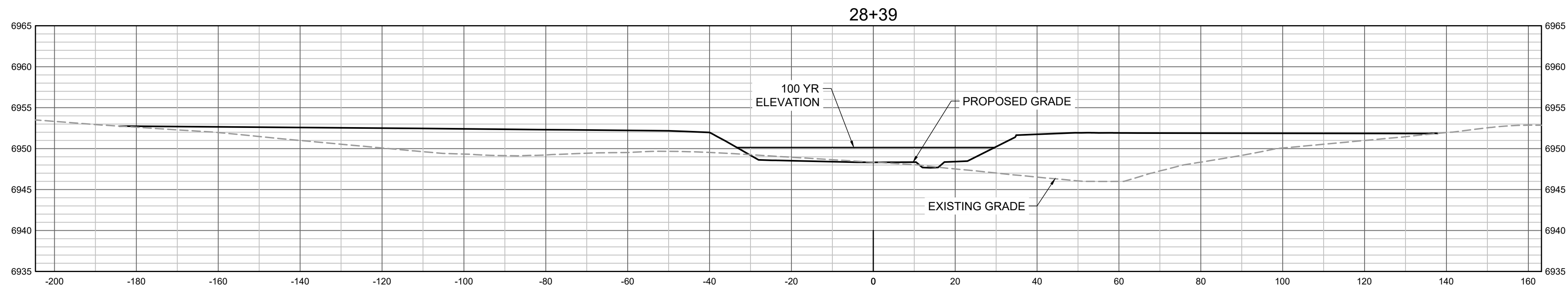
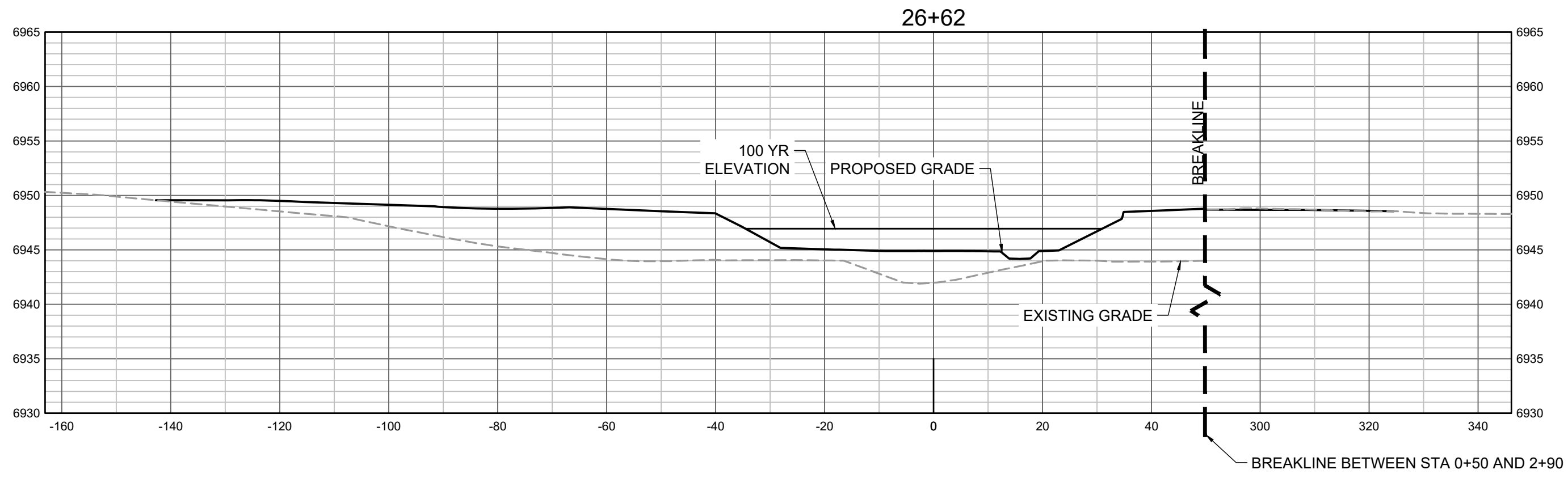
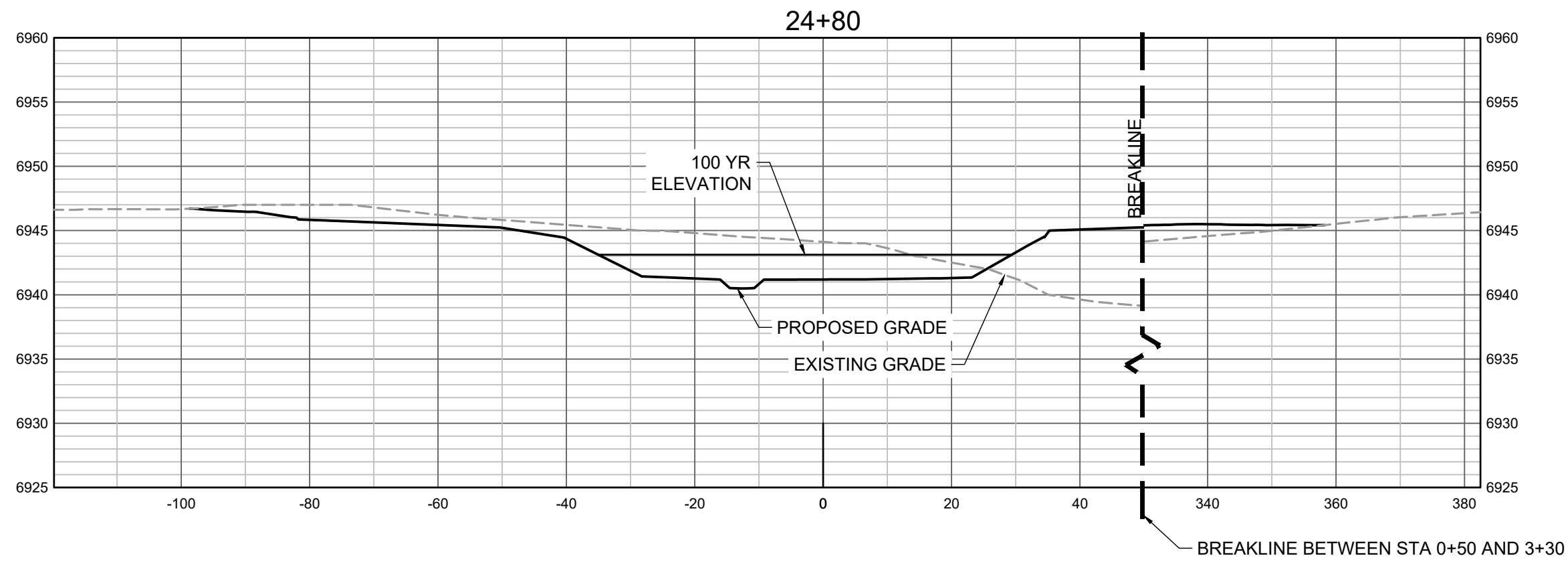
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FALCON, COLORADO

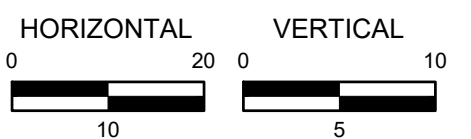
CONSTRUCTION DOCUMENTS  
TRIBUTARY 2 CROSS SECTIONS

SHEET  
CS1  
37





PROPOSED GRADES TO TIE INTO GRANDVIEW RESERVE FILING 1.  
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OF CHANNEL GRADING LIMITS.



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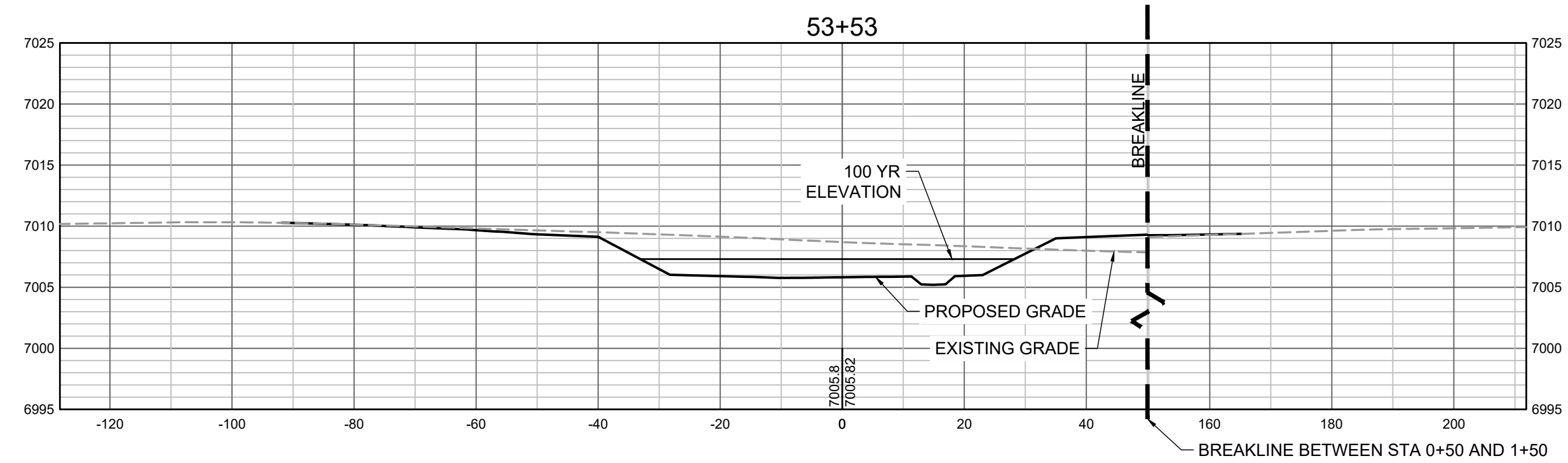
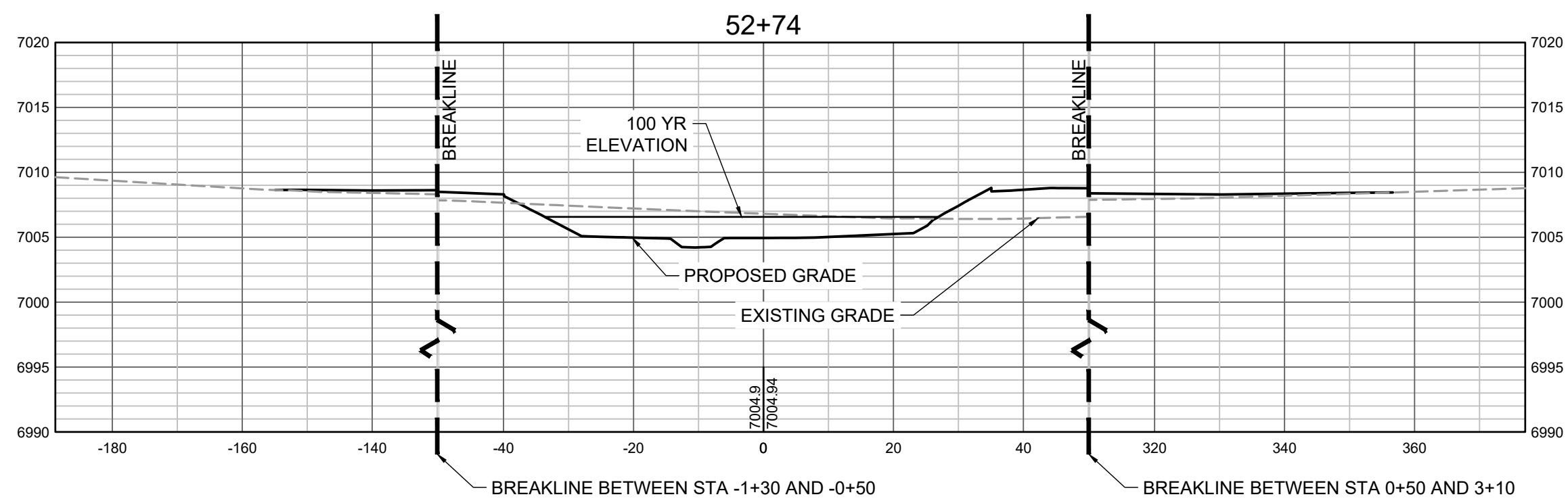
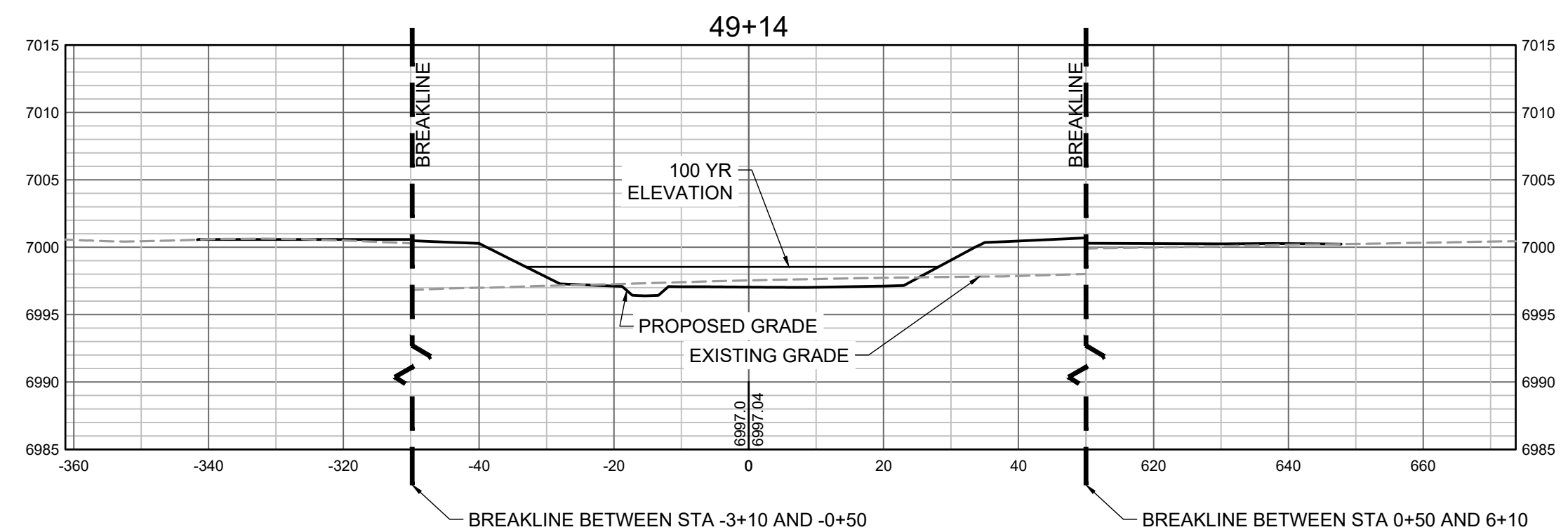
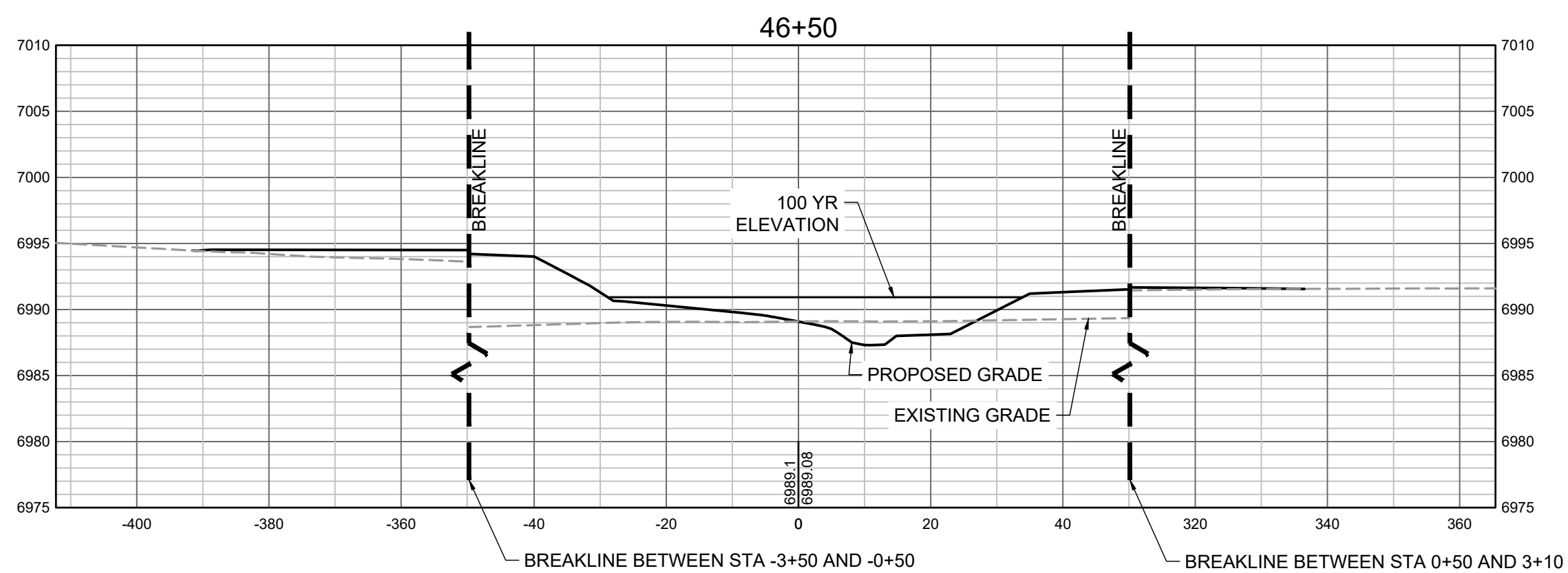
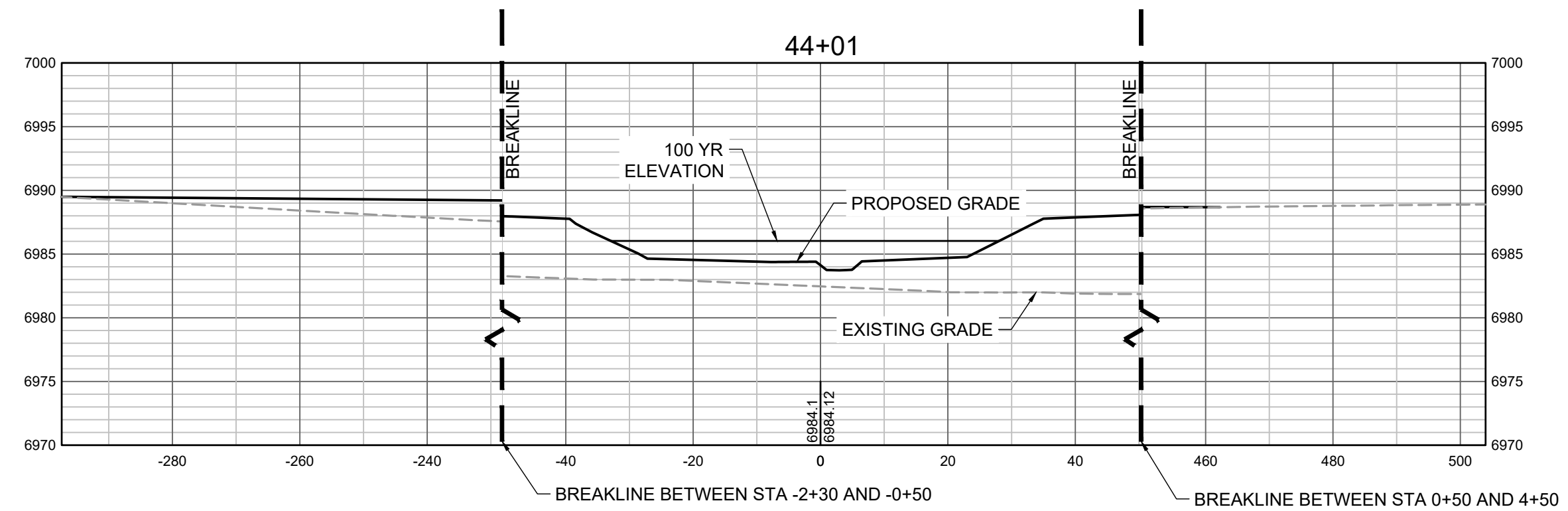
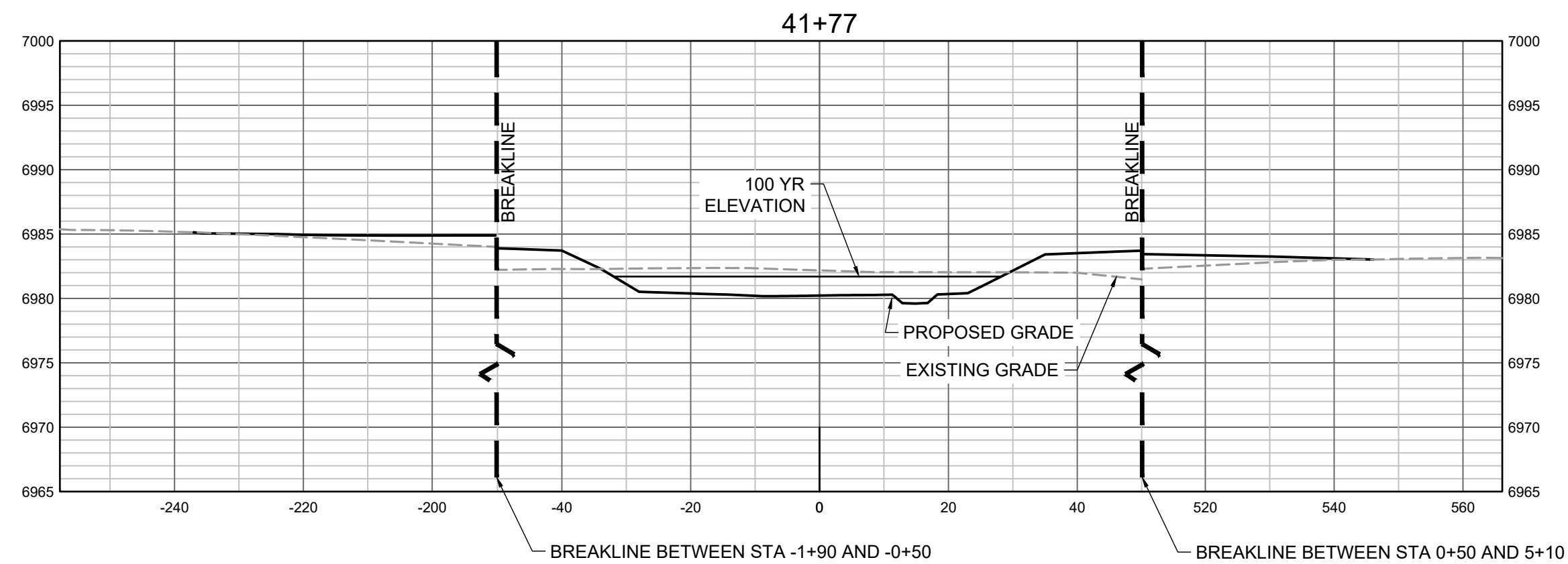
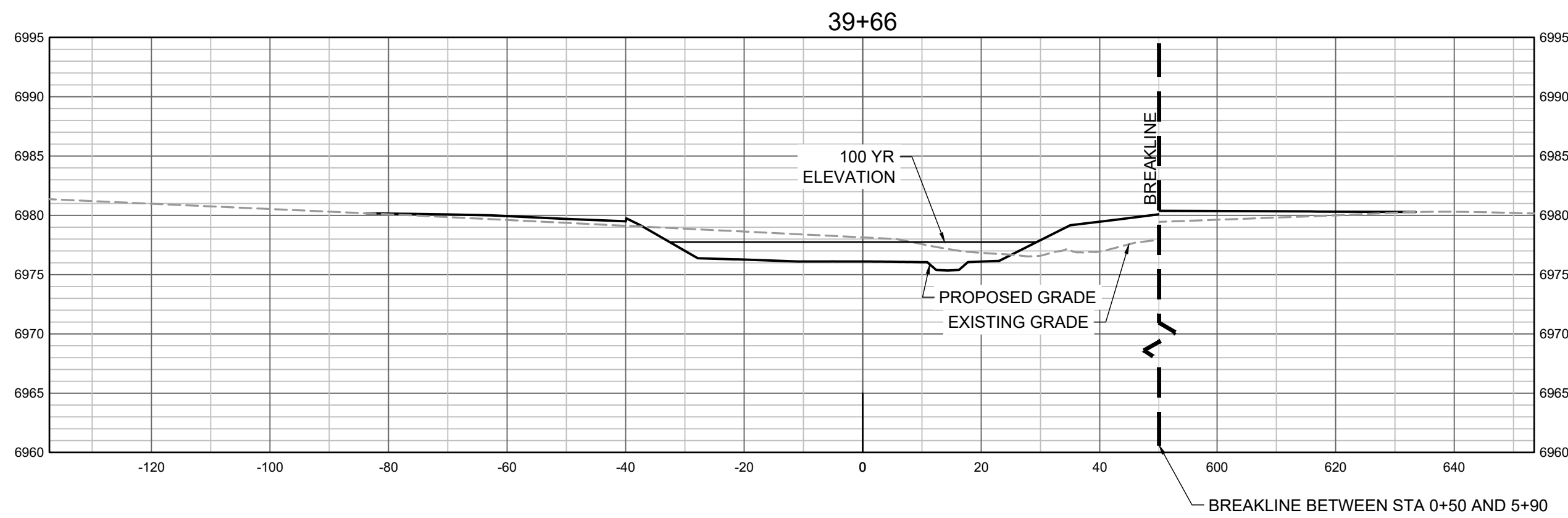
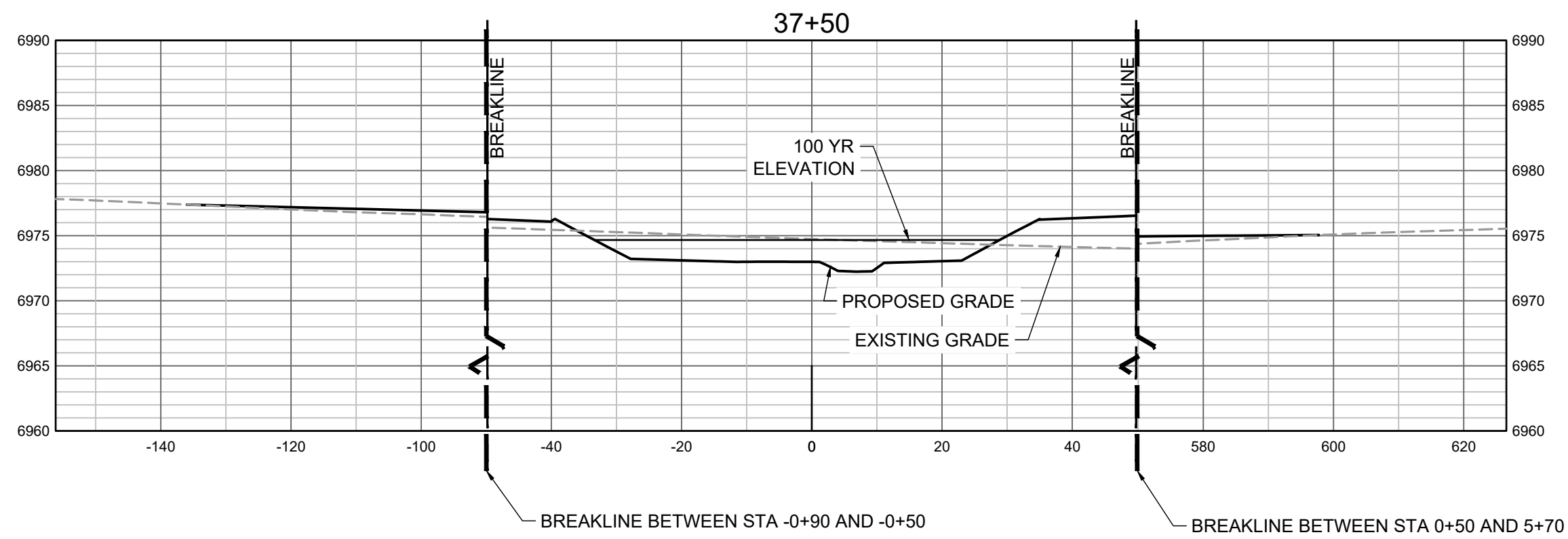
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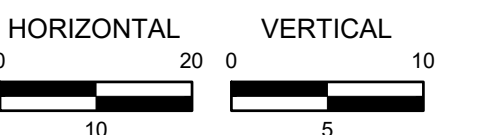
CONSTRUCTION DOCUMENTS  
TRIBUTARY 2 CROSS SECTIONS

SHEET  
CS2  
38





PROPOSED GRADES TO TIE INTO GRANDVIEW RESERVE FILING 1.  
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DR HORTON  
FALCON, COLORADO

CONSTRUCTION DOCUMENTS  
TRIBUTARY 2 CROSS SECTIONS

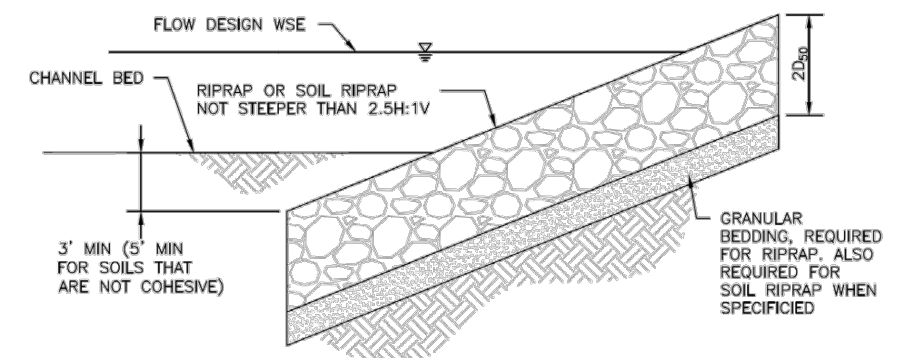
SHEET  
CS3

39



Provide chute & drop structure detail back in and address comment from previous submittal.

Open Channels Chapter 8



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

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

8-76 Urban Drainage and Flood Control District January 2016  
Urban Storm Drainage Criteria Manual Volume 1

Chapter 8 Open Channels

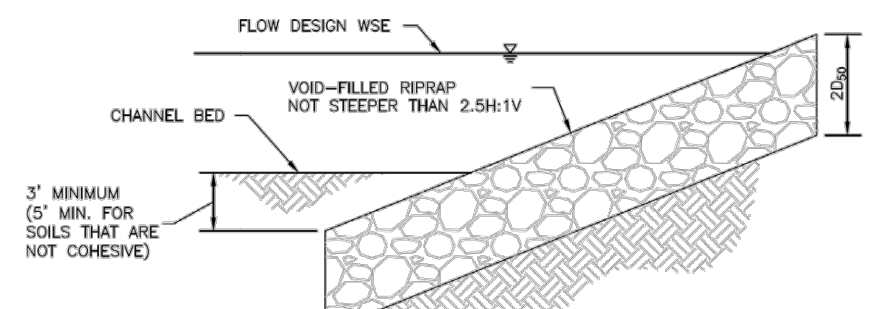


TABLE 1. MIX REQUIREMENTS FOR TYPE VL AND L VOID-FILLED RIPRAP (D <sub>50</sub> = 6 to 9 INCH)		
APPROPRIATE PROPORTIONS (BY VOLUME)	MATERIAL TYPE	MATERIAL DESCRIPTION
6 PARTS	RRIPRAP	D <sub>50</sub> = 6 INCH (TYPE VL) OR D <sub>50</sub> = 9 INCH (TYPE L), SEE TABLE 3
1 PART	VOID-FILL MATERIAL	VTC (VEHICLE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

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

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

GRADATION FOR GRANULAR BEDDING			
PERCENT PASSING BY WEIGHT			
U.S. STANDARD SIEVE SIZE	TYPE I COOT. SECT. 703.01	TYPE II COOT. SECT. CLASS A	
3 INCHES	—	80 - 100	
1 1/2 INCHES	—	—	
3/4 INCHES	—	20 - 90	
3/8 INCHES	100	—	
#4	95 - 100	0 - 20	
#16	45 - 80	—	
#50	10 - 30	—	
#100	2 - 10	—	
#200	0 - 2	0 - 3	

RIPRAP BEDDING

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

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TABLE 2. MIX REQUIREMENTS FOR TYPE M AND H VOID-FILLED RRIPRAP (D <sub>50</sub> = 12 TO 18 INCH)		
APPROPRIATE PROPORTIONS (BY VOLUME)	MATERIAL TYPE	MATERIAL DESCRIPTION
6 PARTS	RRIPRAP	D <sub>50</sub> = 12-INCH (TYPE M) OR D <sub>50</sub> = 18-INCH (TYPE H), SEE TABLE 3
2 PART	VOID-FILL MATERIAL	7-INCH MINUS CRUSHED ROCK SURGE (100% PASSING 3/8-INCH SIEVE, 80-100% PASSING 6-INCH SIEVE, 35-50% PASSING 19-INCH SIEVE, 10-20% PASSING 30-INCH SIEVE)
1 PART	VOID-FILL MATERIAL	VEHICLE TRACKING CONTROL ROCK (CRUSHED ROCK WITH 100% PASSING 4-INCH SIEVE, 50-100% PASSING 3/8-INCH SIEVE, 0-10% PASSING 2-INCH SIEVE)
1 PART	VOID-FILL MATERIAL	4-INCH MINUS PIT RUN SURGE (ROUND RIVER ROCK AND SAND, WELL GRADED, 80-100% PASSING 4-INCH SIEVE, 70-80% PASSING 3/8-INCH SIEVE, 40-60% PASSING 3/4-INCH SIEVE, 10-10% PASSING 5-INCH SIEVE)
1 PART	VOID-FILL MATERIAL	TYPE 1 BEDDING (CRUSHED ROCK WITH 100% PASSING 3/8-INCH SIEVE, 20-80% PASSING 3/4-INCH SIEVE, 0-20% PASSING #4 SIEVE, 0-3% PASSING #200 SIEVE)
1/2 TO 1 PART	VOID-FILL MATERIAL	NATIVE TOPSOIL

TABLE 3. VOID-FILL RRIPRAP PLACEMENT AND GRADATION			
RRIPRAP DESIGNATION	% SMALLER THAN GIVEN SIZE BY WEIGHT	INTERMEDIATE ROCK DIMENSION (INCHES)	D <sub>50</sub> (INCHES)
TYPE VL	70 – 100	12	6
	50 – 70	6	
	35 – 50	6	
	2 – 10	2	
TYPE L	70 – 100	15	9
	50 – 70	12	
	35 – 50	9	
	2 – 10	3	
TYPE M	70 – 100	21	12
	50 – 70	18	
	35 – 50	12	
	2 – 10	4	
TYPE H	70 – 100	30	18
	50 – 70	24	
	35 – 50	18	
	2 – 10	6	

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

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

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

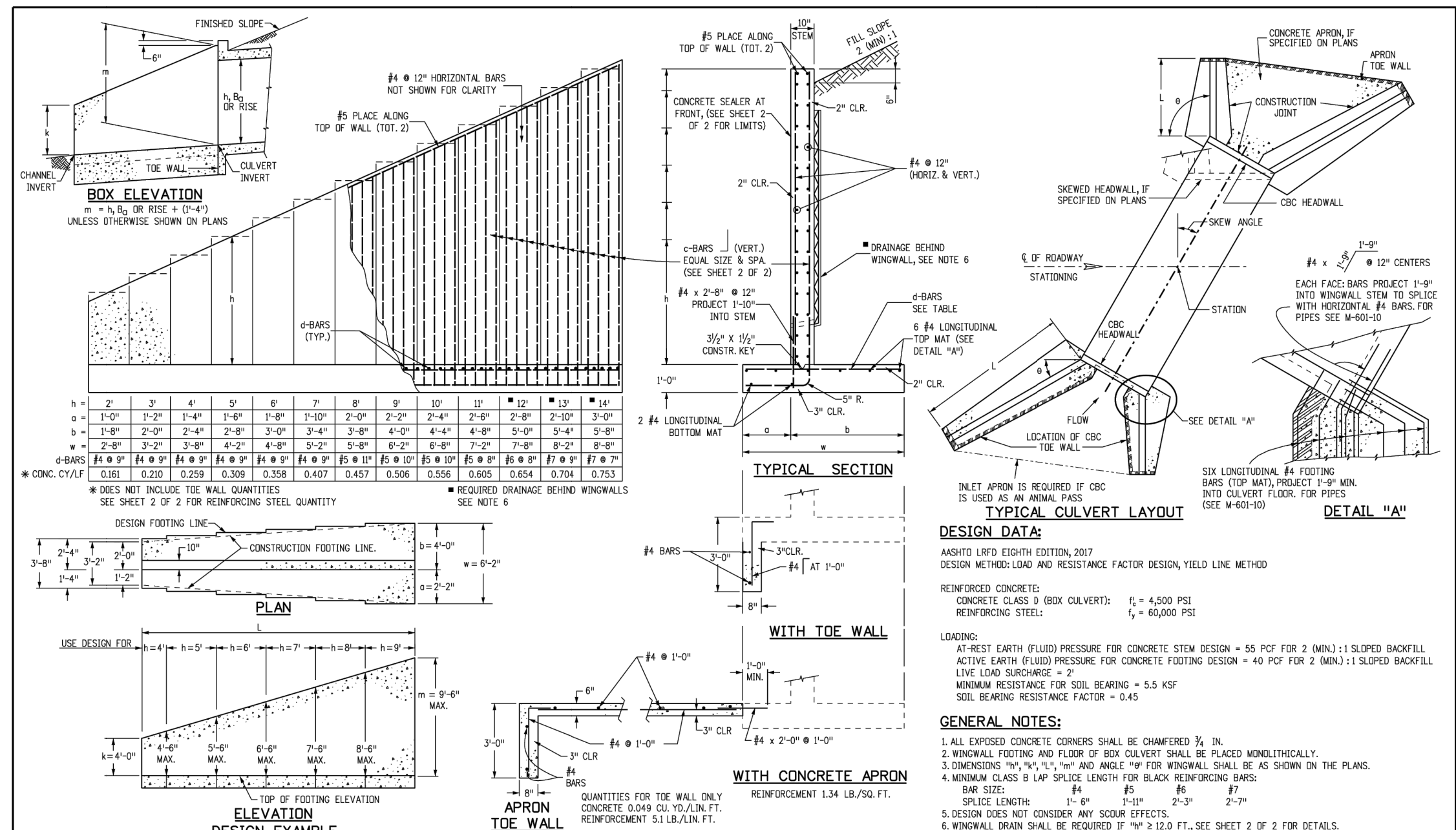
8-78 Urban Drainage and Flood Control District January 2016  
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Chapter 8 Open Channels

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

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

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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: JTB	Comments:	Denver, CO 80204	Standard Sheet No. 1 of 2
Last Modification Date: 07/31/19		Project Development Branch	
Detailer: JTB		JBK	
CAD Ver: MicroStation V8 Scale: Not to Scale Units: English			

C-BARS AND REINFORCING STEEL QUANTITY (EXCLUDE THE WALL)		REINFORCING STEEL QUANTITY INCLUDES STEM AND FOOTING QUANTITIES, BUT DOES NOT INCLUDE THE WALL QUANTITIES.	
MULTIPLE OF (m)		MULTIPLE OF (m)	
1 (m)		1 (m)	
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
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14	14	14	14
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97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

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: JTB	Comments:	Denver, CO 80204	Standard Sheet No. 2 of 2
Last Modification Date: 07/31/19		Project Development Branch	
Detailer: JTB		JBK	
CAD Ver: MicroStation V8 Scale: Not to Scale Units: English			

Provide detail for headwall box culvert

DRAWN BY: TBI JOB DATE: 1/23/2024  
APPROVED: GLP JOB NUMBER: 201662.03  
CAD DATE: 1/26/2024  
CAD FILE: J:\2020\201662.03\CAD\dwgs\CIDETAILS

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

NO.	DATE	BY	REVISION DESCRIPTION

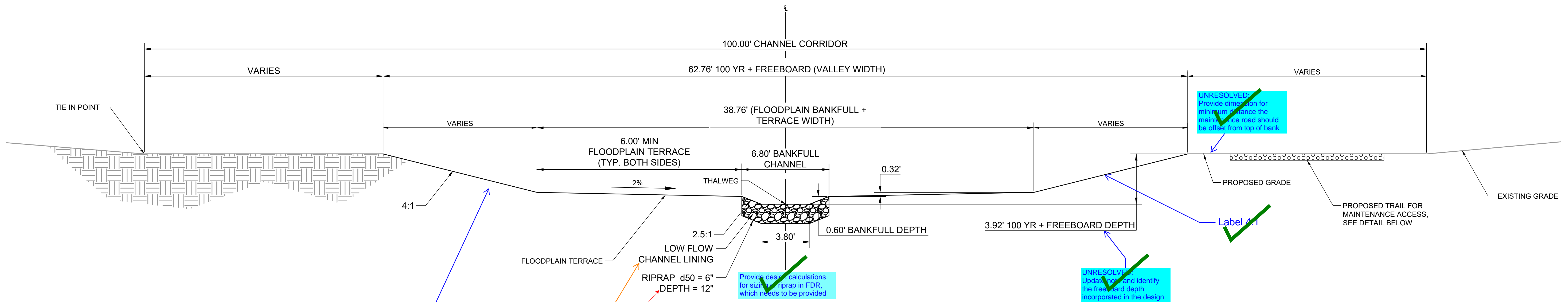
HR GREEN - DENVER  
5613 DTC PARKWAY SUITE 950  
DENVER CO 80111  
PHONE: 720.602.4999  
FAX: 713.965.0044

GRANDVIEW RESERVE  
DR HORTON  
FALCON, COLORADO

CONSTRUCTION DOCUMENTS  
DETAILS

SHEET  
DT1  
40

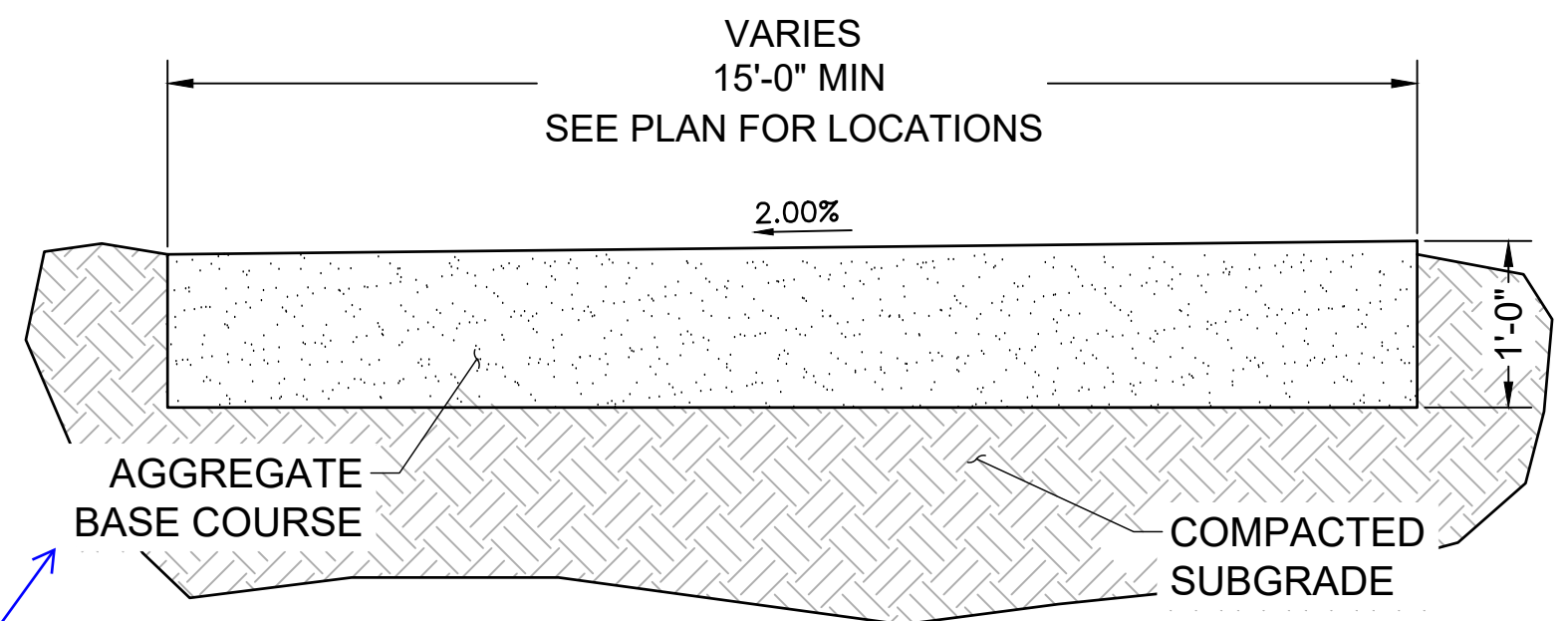




# 1 TYPICAL CROSS SECTION – TRIBUTARY 2

SCALE: N.T.S.

- 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.



## MAINTENANCE ROAD TYPICAL SECTION

SCALE: NTS

DRAWN BY: TBI JOB DATE: 1/23/2024  
APPROVED: GLP JOB NUMBER: 201662.03  
CAD DATE: 1/26/2024  
CAD FILE: J:\2020\201662.03\CAD\Drawings\C\DETAILS

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

NO.	DATE	BY	REVISION DESCRIPTION



HR GREEN - DENVER  
5613 DTC PARKWAY SUITE 950  
DENVER CO 80111  
PHONE: 720.602.4999  
FAX: 713.965.0044

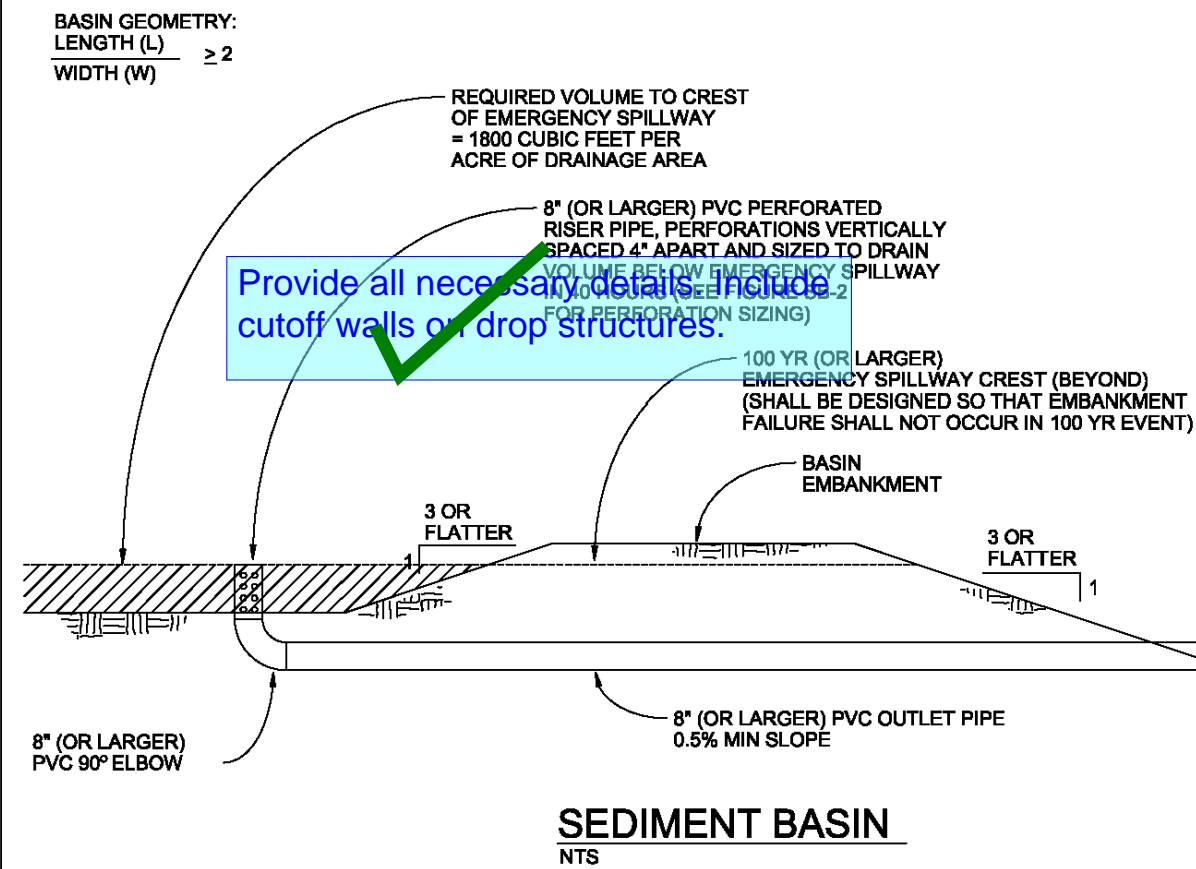
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FALCON, COLORADO

CONSTRUCTION DOCUMENTS  
DETAILS

SHEET  
DT2

41





SEDIMENT BASIN  
NTS

### SEDIMENT BASIN NOTES

#### INSTALLATION REQUIREMENTS

- SEDIMENT BASINS SHALL BE INSTALLED BEFORE ANY CLEARING AND/OR GRADING IS UNDERTAKEN.
- THE AREA UNDER WHICH THE EMBANKMENT IS TO BE INSTALLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ALL VEGETATION AND ROOT MAT.
- THE OUTLET OF THE BASIN SHALL BE DESIGNED TO DRAIN ITS VOLUME IN 40 HOURS.
- THE OUTLET IS TO BE LOCATED AT THE FURTHEST DISTANCE FROM THE INLET OF THE BASIN. Baffles MAY BE NEEDED TO INCREASE THE FLOW LENGTH AND SETTLING TIME.
- EMBANKMENT MATERIAL SHALL CONSIST OF SOIL WITH A MINIMUM OF 15% PASSING A #200 SIEVE. EXCAVATED SOIL CAN BE USED IF IT MEETS THIS REQUIREMENT.
- EMBANKMENT IS TO BE COMPACTED TO AT LEAST 90% OF MAXIMUM DENSITY AND WITHIN 2% OF OPTIMUM MOISTURE CONTENT ACCORDING TO ASTM D 698.
- WHEN A BASIN IS INSTALLED NEAR A RESIDENTIAL AREA, FOR SAFETY REASONS, A SIGN SHALL BE POSTED AND THE AREA SECURED WITH A FENCE.

#### MAINTENANCE REQUIREMENTS

- CONTRACTOR SHALL INSPECT SEDIMENT BASINS AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS OF NO RAINFALL.
- SEDIMENT BASINS SHALL BE CLEANED OUT BEFORE SEDIMENT HAS FILLED HALF THE VOLUME OF THE BASIN.
- SEDIMENT BASINS SHALL REMAIN OPERATIONAL AND PROPERLY MAINTAINED UNTIL THE SITE AREA IS PERMANENTLY STABILIZED WITH ADEQUATE VEGETATIVE COVER AND/OR OTHER PERMANENT STRUCTURE AS APPROVED BY THE CITY.

City of Colorado Springs  
Stormwater Quality

Figure SB-1  
Sediment Basin  
Construction Detail and Maintenance  
Requirements

Required Area per Row (in <sup>2</sup> )		Depth at Outlet (ft)									
Design Volume (acre-ft)	Hole Diameter (in)	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5		
		2	15.04	7.71	5.10	3.76	2.95	2.41	2.02	1.73	
1	7.52	3.86	2.55	1.88	1.48	1.21	1.01	0.87			
0.6	4.51	2.31	1.53	1.13	0.89	0.72	0.61	0.52			
0.4	3.01	1.54	1.02	0.75	0.59	0.48	0.40	0.35			
0.2	1.50	0.77	0.51	0.38	0.30	0.24	0.20	0.17			
0.1	0.75	0.39	0.26	0.19	0.15	0.12	0.10	0.09			
0.06	0.45	0.23	0.15	0.11	0.09	0.07	0.06	0.05			
0.04	0.36	0.15	0.10	0.08	0.06	0.05	0.04	0.03			
0.02	0.19	0.08	0.05	0.04	0.03	0.02	0.02	0.02			
0.01	0.08	0.04	0.03	0.02	0.01	0.01	0.01	0.01			

TABLE SB-1

Circular Perforation Sizing		Area per Row (in <sup>2</sup> )			
Hole Diameter (in)	Hole Diameter (in)	n = 1	n = 2	n = 3	n = 4
1/4	0.250	0.05	0.10	0.15	0.20
5/16	0.313	0.08	0.15	0.23	0.30
3/8	0.375	0.11	0.22	0.33	0.45
7/16	0.438	0.15	0.30	0.45	0.60
1/2	0.500	0.20	0.39	0.59	0.75
9/16	0.563	0.25	0.50	0.75	0.92
5/8	0.625	0.31	0.61	0.92	1.11
11/16	0.688	0.37	0.74	1.11	1.33
3/4	0.750	0.44	0.88	1.33	1.60
7/8	0.875	0.60	1.20	1.80	2.36
1	1.000	0.79	1.57	2.36	3.08
1 1/8	1.125	0.99	1.99	2.98	3.86
1 1/4	1.250	1.23	2.45	3.68	4.65
1 3/8	1.375	1.48	2.97	4.45	5.30
1 1/2	1.500	1.77	3.53	5.30	6.22
1 5/8	1.625	2.07	4.15	6.22	7.22
1 3/4	1.750	2.41	4.81	7.22	8.28
1 7/8	1.875	2.76	5.52	8.28	9.42
2	2.000	3.14	6.28	9.42	

TABLE SB-2

City of Colorado Springs  
Stormwater Quality

Figure SB-2  
Outlet Sizing  
Application Techniques and Maintenance  
Requirements

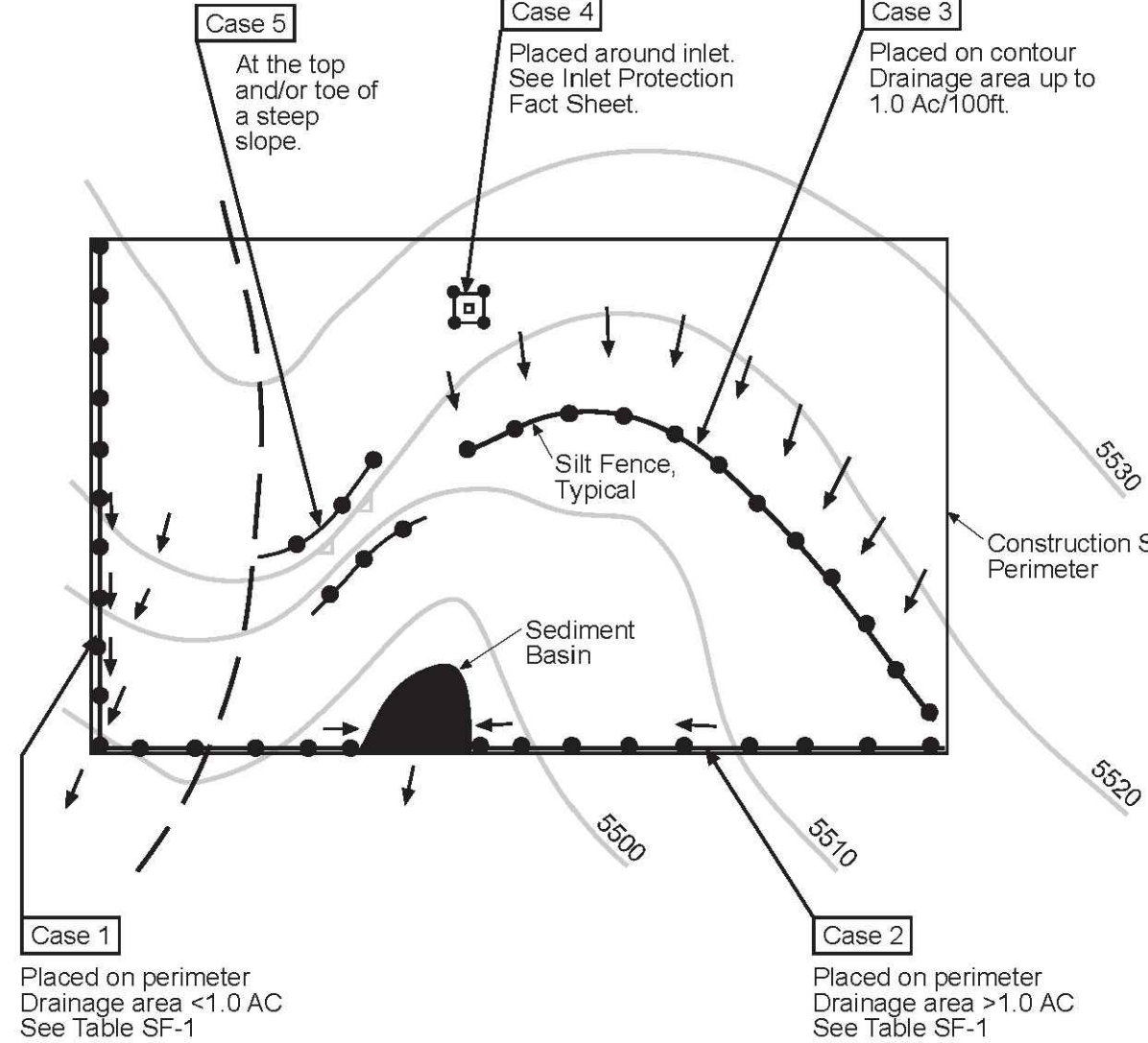


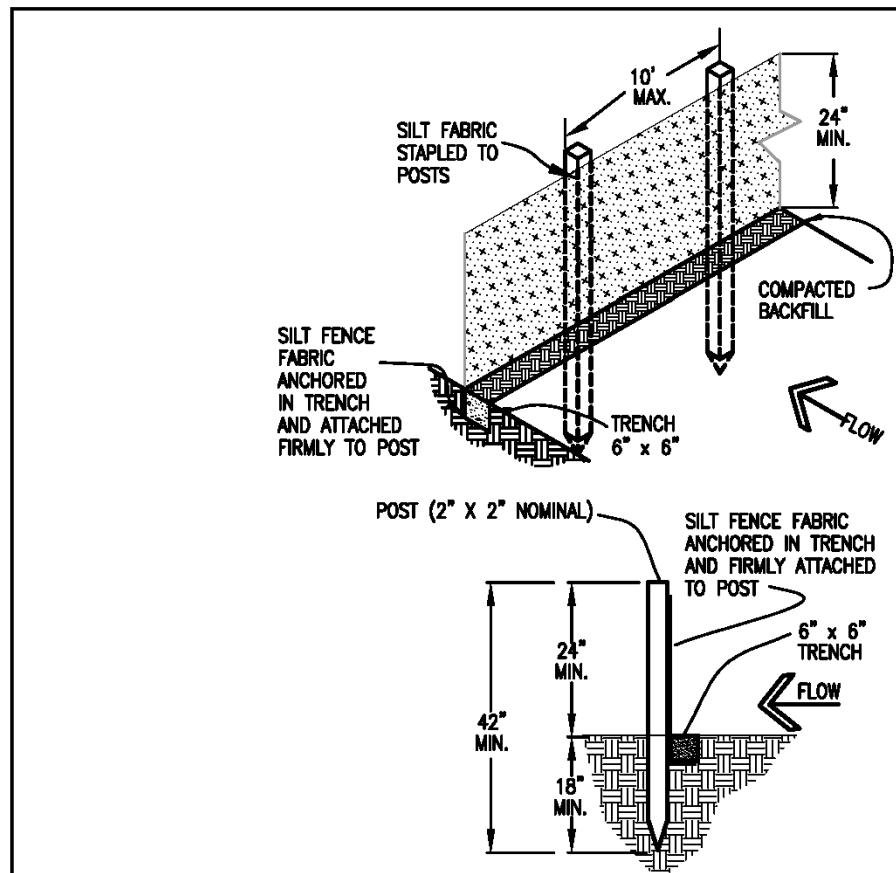
Table SF-1

Silt Fence Used as Perimeter Control	Case 1		Case 2
	DA < 0.25 AC	0.25 < DA < 1 AC	DA > 1.0 AC
Continuous Grade	OK <sup>(1)</sup>	OK <sup>(1)</sup>	OK <sup>(1)</sup>
Area of Concentrated Flow	OK	NO <sup>(2)</sup>	NO <sup>(3)</sup>

- (1) Temporary Swale or Straw Bale Barrier may be used as alternative to a Silt Fence.  
(2) Check Dam may also be used as alternative to Silt Fence at low point.  
(3) Sediment Basin is required for concentrated flow from drainage areas > 1.0 AC.

City of Colorado Springs  
Storm Water Quality

Figure SF-1  
Silt Fence  
Application Examples



SILT FENCE

### SILT FENCE NOTES

#### INSTALLATION REQUIREMENTS

- SILT FENCES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- WHEN JOINTS ARE NECESSARY, SILT FENCE GEOTEXTILE SHALL BE SPICED TOGETHER ONLY AT SUPPORT POST AND SECURELY SEALED.
- METAL POSTS SHALL BE "STUDDED TEE" OR "I" TYPE WITH MINIMUM WEIGHT OF 1.35 POUNDS PER LINEAR FOOT. WOOD POSTS SHALL HAVE A MINIMUM DIAMETER OR CROSS SECTION DIMENSION OF 2 INCHES.
- THE FILTER MATERIAL SHALL BE FASTENED SECURELY TO METAL OR WOOD POSTS USING WIRE TIES, OR TO WOOD POSTS WITH 3/4" LONG #9 HEAVY-DUTY STAPLES. THE SILT FENCE GEOTEXTILE SHALL NOT BE STAPLED TO EXISTING TREES.
- WHILE NOT REQUIRED, WIRE MESH FENCE MAY BE USED TO SUPPORT THE GEOTEXTILE. WIRE FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 3/4" LONG. THE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 6" AND SHALL NOT EXTEND MORE THAN 3" ABOVE THE ORIGINAL GROUND SURFACE.

- ALONG THE TOE OF FILLS, INSTALL THE SILT FENCE ALONG A LEVEL CONTOUR AND PROVIDE AN AREA BEHIND THE FENCE FOR RUNOFF TO POND AND SEDIMENT TO SETTLE. A MINIMUM DISTANCE OF 5 FEET FROM THE TOE OF THE FILL IS RECOMMENDED.
- THE HEIGHT OF THE SILT FENCE FROM THE GROUND SURFACE SHALL BE MINIMUM OF 24 INCHES AND SHALL NOT EXCEED 36 INCHES. HIGHER FENCES MAY INPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.

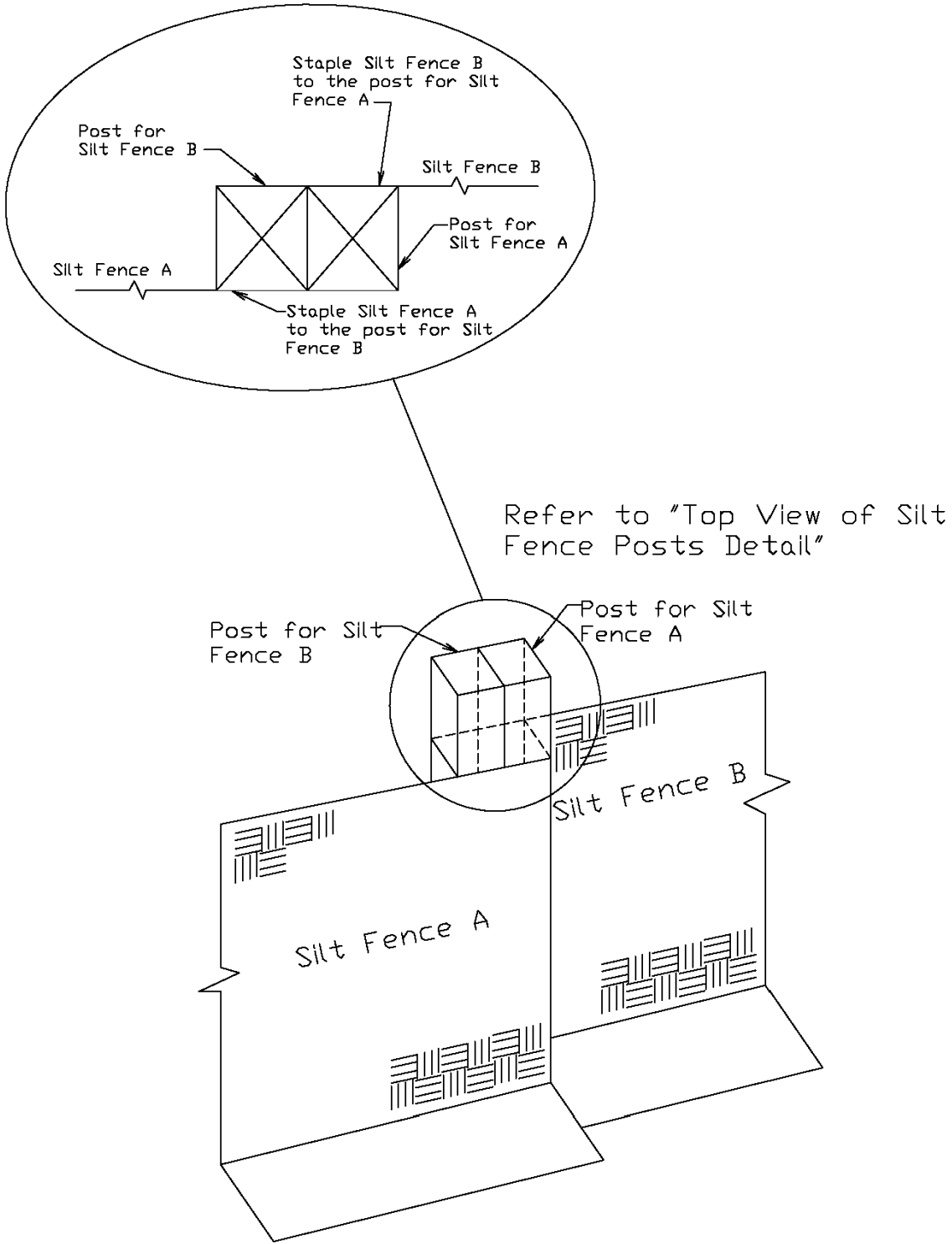
#### MAINTENANCE REQUIREMENTS

- CONTRACTOR SHALL INSPECT SILT FENCES IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS OF NO RAINFALL. DAMAGED, COLLAPSED, UNENTRENCHED OR INEFFECTIVE SILT FENCES SHALL BE PROMPTLY REPAIRED OR REPLACED.
- SEDIMENT SHALL BE REMOVED FROM BEHIND SILT FENCE WHEN IT ACCUMULATES TO HALF THE EXPOSED GEOTEXTILE HEIGHT.
- SILT FENCES SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED AS APPROVED BY THE CITY.

City of Colorado Springs  
Stormwater Quality

Figure SF-2  
Silt Fence  
Construction Detail and Maintenance  
Requirements

### Top View of Silt Fence Posts Detail



Refer to "Top View of Silt Fence Posts Detail"

City of Colorado Springs  
Stormwater Quality

Figure SF-3  
Silt Fence Joint Tying  
Construction Detail and Maintenance  
Requirements

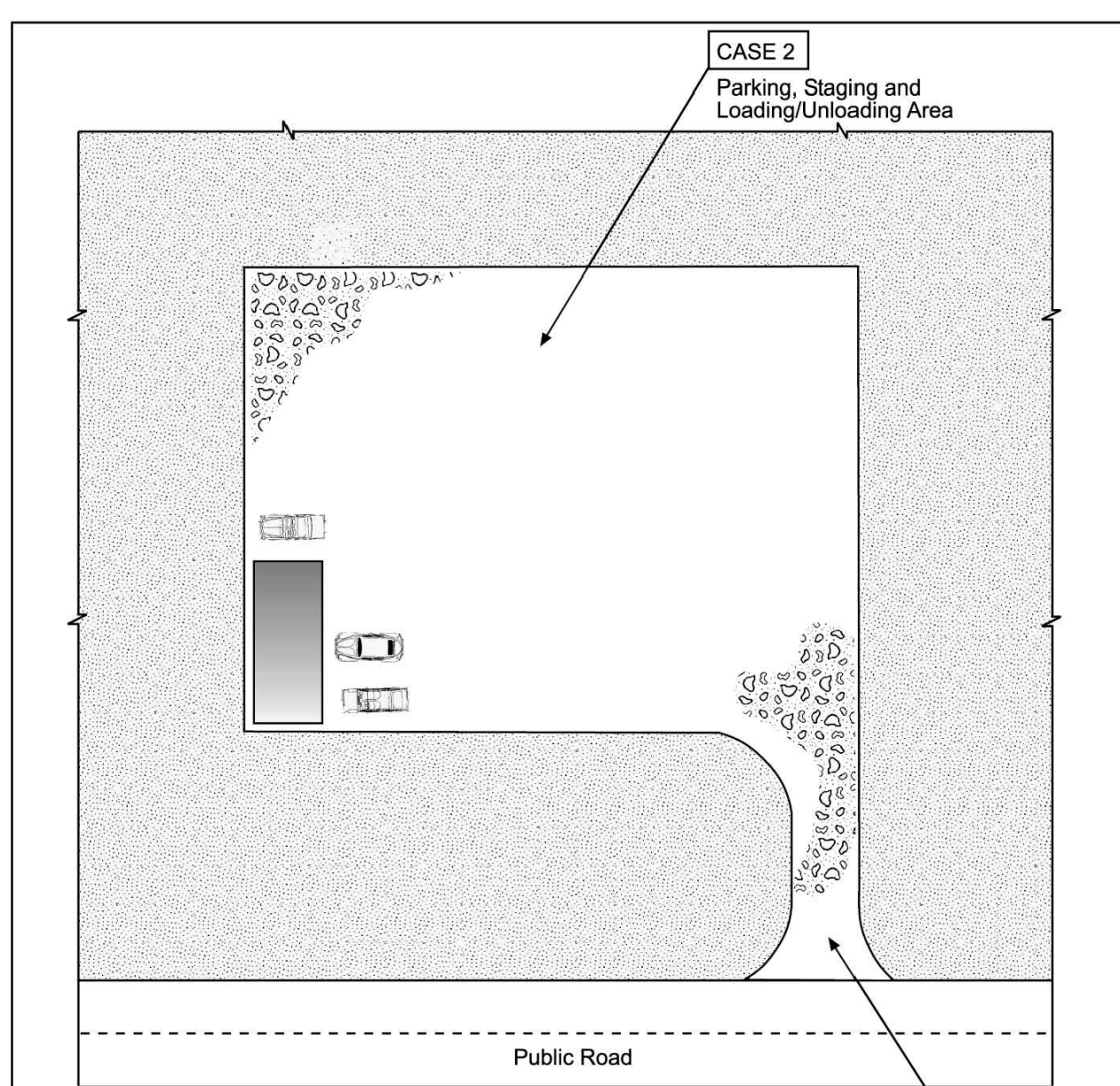
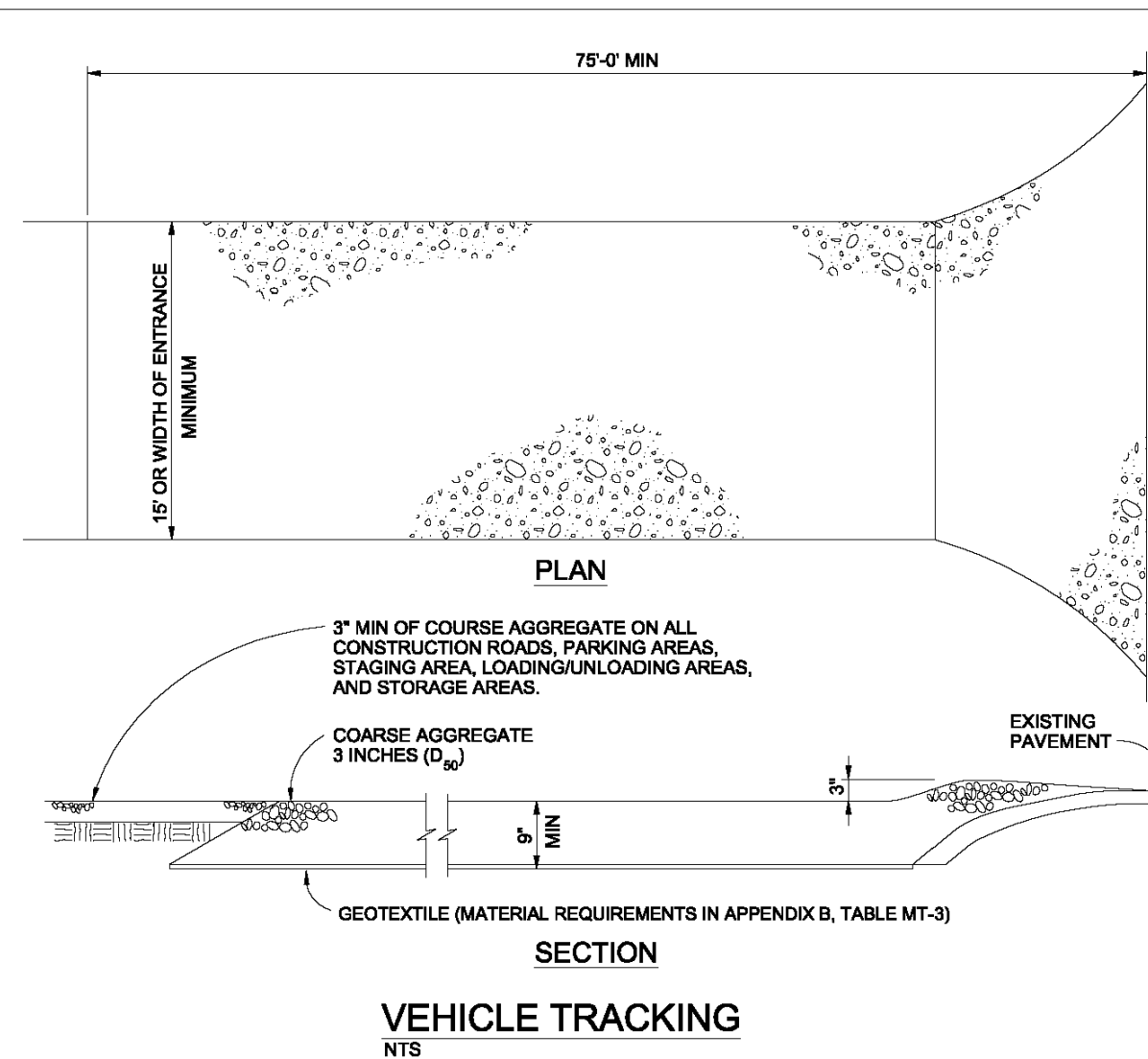


Table VT-1

	Case 1	Case 2
Gravel Thickness	9"	3"
Filter Fabric	YES	NO

City of Colorado Springs  
Storm Water Quality

Figure VT-1  
Vehicle Tracking  
Application Examples



### VEHICLE TRACKING NOTES

#### INSTALLATION REQUIREMENTS

- ALL ENTRANCES TO THE CONSTRUCTION SITE ARE TO BE STABILIZED PRIOR TO CONSTRUCTION BEGINNING.
- CONSTRUCTION ENTRANCES ARE TO BE BUILT WITH AN APRON TO ALLOW FOR TURNING TRAFFIC, BUT SHOULD NOT BE BUILT OVER EXISTING PAVEMENT EXCEPT FOR A SLIGHT OVERLAP.
- AREAS TO BE STABILIZED ARE TO BE PROPERLY GRADED AND COMPACTED PRIOR TO LAYING DOWN GEOTEXTILE AND STONE.
- CONSTRUCTION ROADS, PARKING AREAS, LOADING/UNLOADING ZONES, STORAGE AREAS, AND STAGING AREAS ARE TO BE STABILIZED.
- CONSTRUCTION ROADS ARE TO BE BUILT TO CONFORM TO SITE GRADES, BUT SHOULD NOT HAVE SIDE SLOPES OR ROAD GRADES THAT ARE EXCESSIVELY STEEP.

#### MAINTENANCE REQUIREMENTS

- REGULAR INSPECTIONS ARE TO BE MADE OF ALL STABILIZED AREAS, ESPECIALLY AFTER STORM EVENTS.
- STONES ARE TO BE REAPPLIED PERIODICALLY AND WHEN REPAIR IS NECESSARY.
- SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED DAILY BY SHOVELING OR SWEEPING. SEDIMENT IS NOT TO BE WASHED DOWN STORM SEWER DRAINS.
- STORM SEWER INLET PROTECTION IS TO BE IN PLACE, INSPECTED, AND CLEANED IF NECESSARY.
- OTHER ASSOCIATED SEDIMENT CONTROL MEASURES ARE TO BE INSPECTED TO ENSURE GOOD WORKING CONDITION.

City of Colorado Springs  
Stormwater Quality

Figure VT-2  
Vehicle Tracking  
Application Examples

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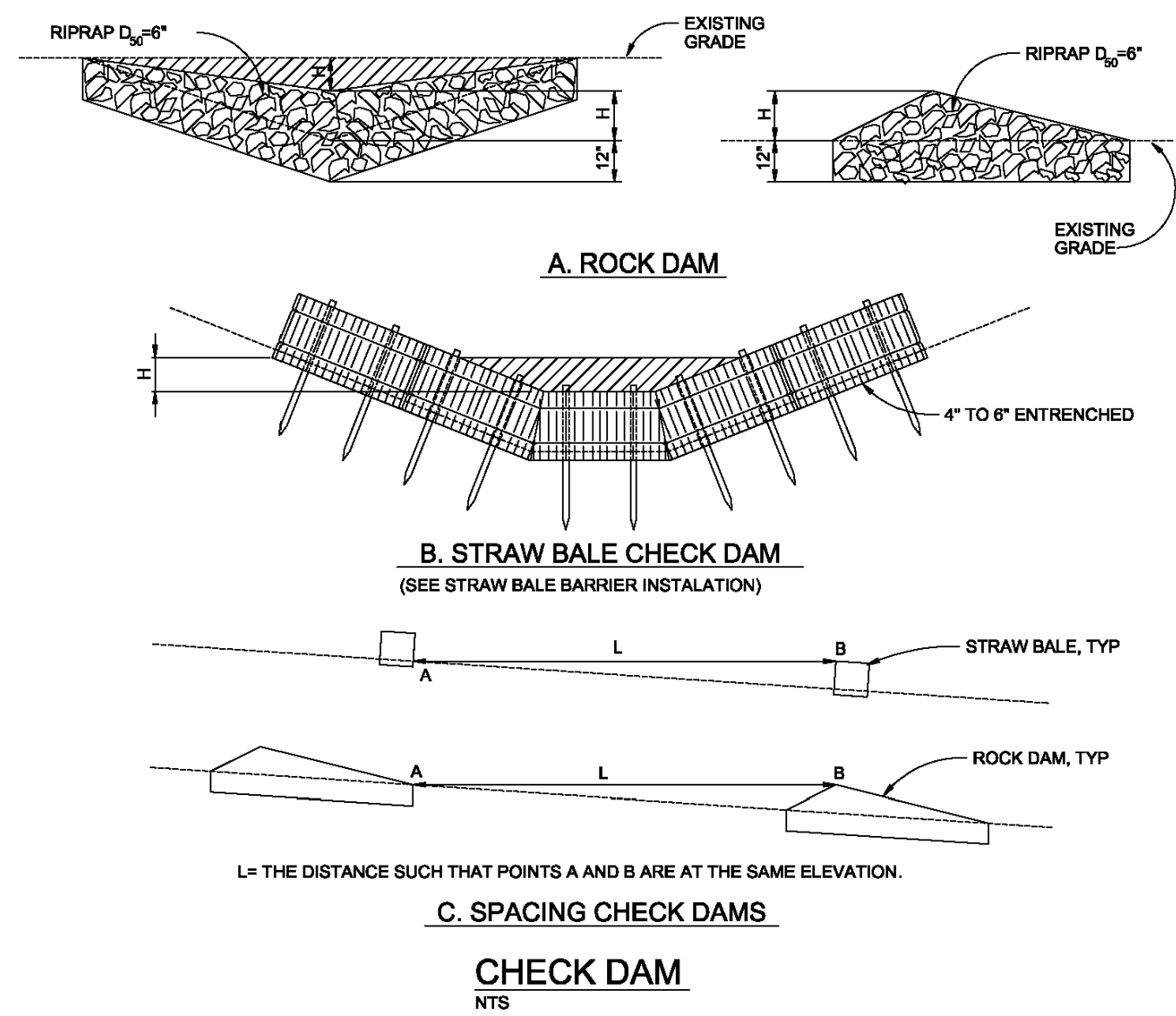
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### CHECK DAM NOTES

#### INSTALLATION REQUIREMENTS

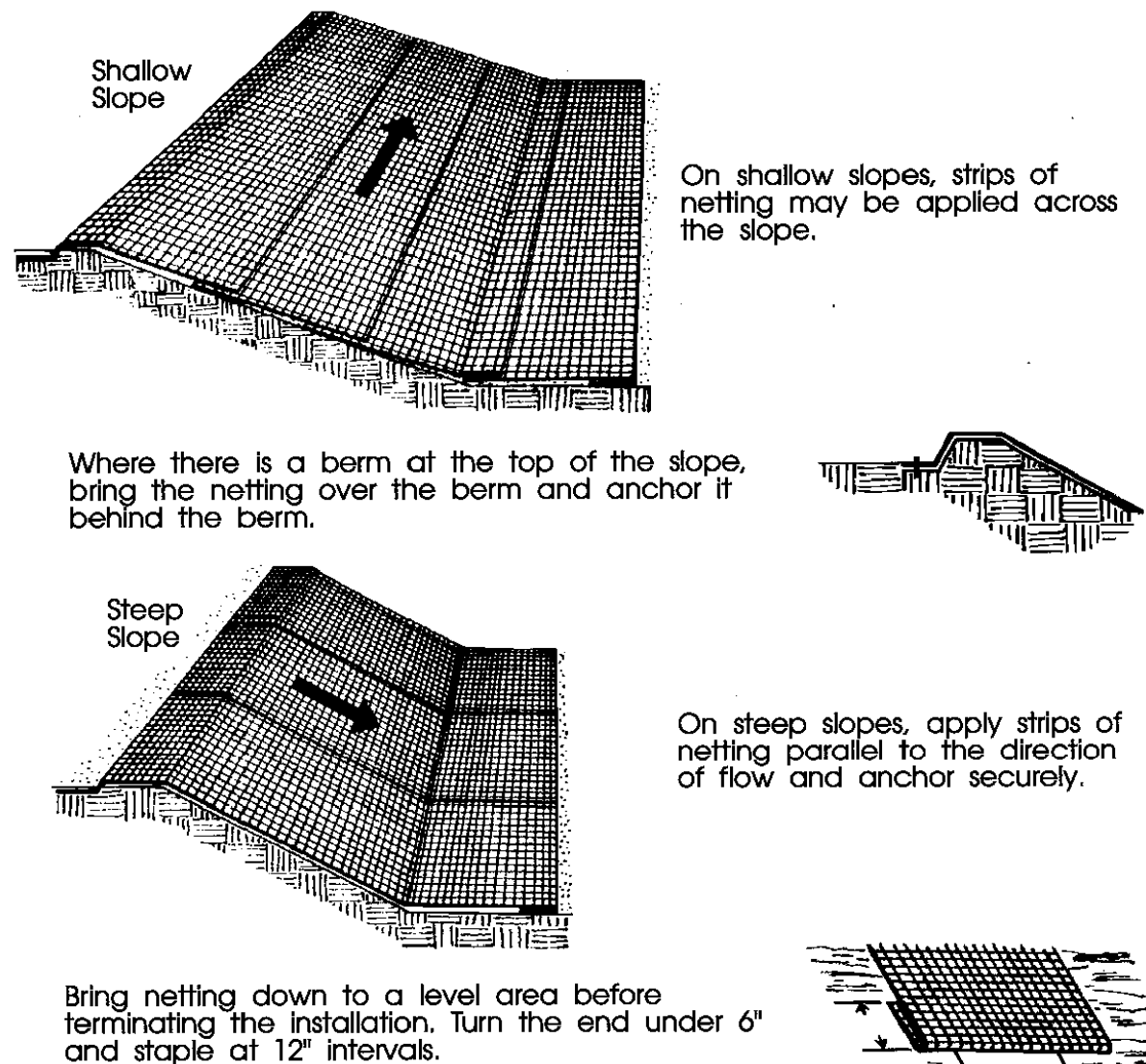
1. STRAW BALES USED AS CHECK DAMS ARE TO MEET THE REQUIREMENTS STATED IN FIGURE SBB-2.
2. THE 1" DIMENSION SHALL BE SELECTED TO PROVIDE THEIR FLOW CONVEYANCE FOR 2-YEAR FLOW OR GREATER.

#### MAINTENANCE REQUIREMENTS

1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL CHECK DAMS, ESPECIALLY AFTER STORM EVENTS.
2. REPLACE STONE AS NECESSARY TO MAINTAIN THE CORRECT HEIGHT OF THE DAM.
3. ACCUMULATED SEDIMENT AND DEBRIS IS TO BE REMOVED FROM BEHIND THE DAMS AFTER EACH STORM OR WHEN 1/2 OF THE ORIGINAL HEIGHT OF THE DAM IS REACHED.
3. CHECK DAMS ARE TO REMAIN IN PLACE AND OPERATIONAL UNTIL THE DRAINAGE AREA AND CHANNEL ARE PERMANENTLY STABILIZED.
4. WHEN CHECK DAMS ARE REMOVED THE CHANNEL LINING OR VEGETATION IS TO BE RESTORED.

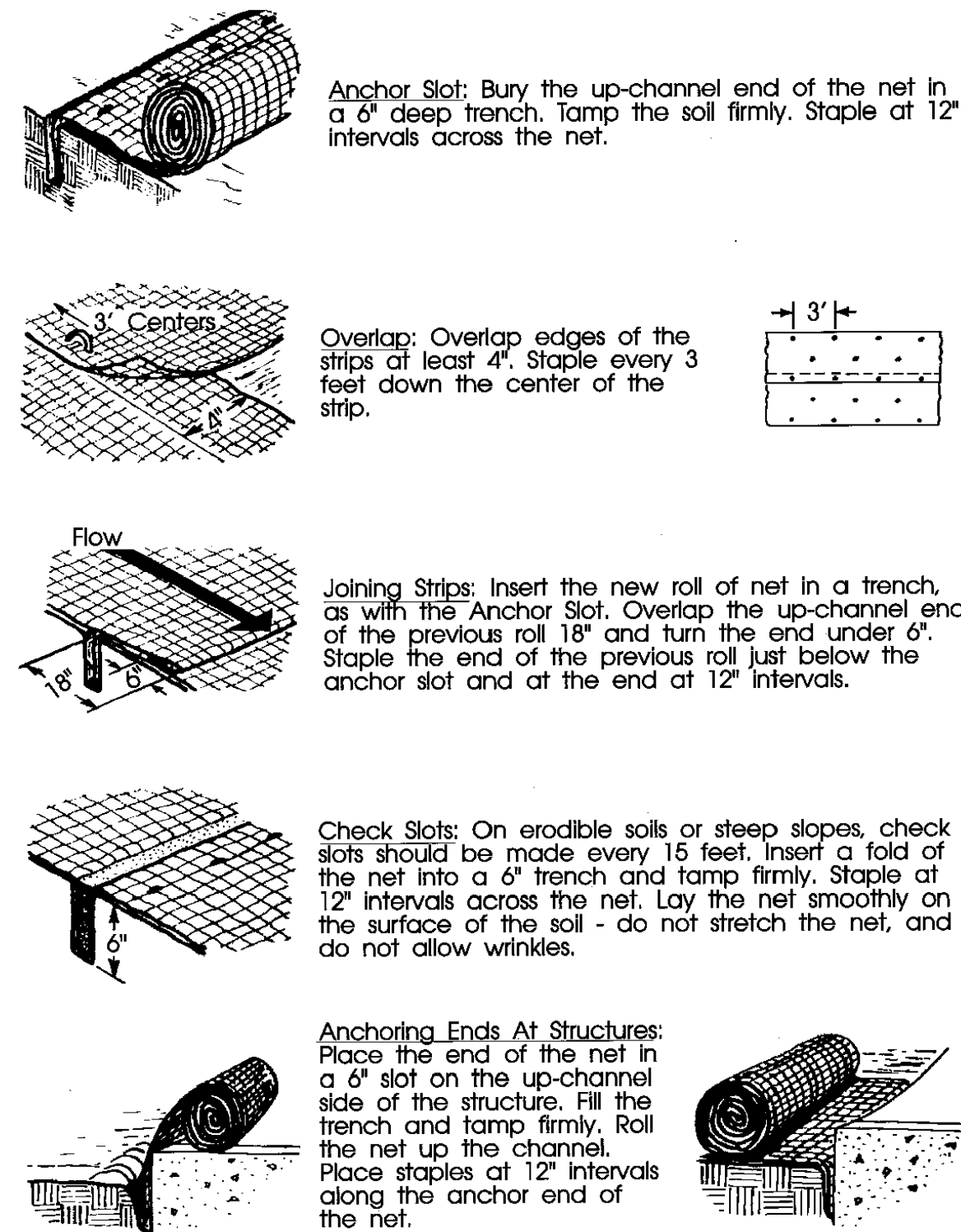
City of Colorado Springs  
Stormwater Quality

Figure CD-1  
Check Dam  
Construction Detail and Maintenance  
Requirements



In ditches, apply netting parallel to the direction of flow. Use check slots every 15 feet. Do not join strips in the center of the ditch.

Figure ECB-1  
Erosion Control Blanket  
Application Examples



Anchoring Ends At Structures: Place the end of the net in a 6" slot on the up-channel side of the structure. Fill the trench and tamp firmly. Roll the net up the channel. Place staples at 12" intervals along the anchor end of the net.

Figure ECB-2  
Erosion Control Blanket  
Installation Requirements

RECOMMENDED ANNUAL GRASSES				
SPECIES (COMMON NAME)	GROWTH SEASON	SEEDING DATE	POUNDS OF PURE LIVE SEED (PLS) (PLS/ACRE)	PLANTING DEPTH (INCHES)
1. OATS	COOL	MARCH 16 - APRIL 30	35-50	1-2
2. SPRING WHEAT	COOL	MARCH 16 - APRIL 30	25-35	1-2
3. SPRING BARLEY	COOL	MARCH 16 - APRIL 30	25-35	1-2
4. ANNUAL RYEGRASS	COOL	MARCH 16 - JUNE 30	10-15	1/2
5. MILLET	WARM	MAY 16 - JULY 15	3-15	1/2-3/4
6. SUDANGRASS	WARM	MAY 16 - JULY 15	5-10	1/2-3/4
7. SORGHUM	WARM	MAY 16 - JULY 15	5-10	1/2-3/4
8. WINTER WHEAT	COOL	SEPTEMBER 1 - 30	20-35	1-2
9. WINTER BARLEY	COOL	SEPTEMBER 1 - 30	20-35	1-2
10. WINTER RYE	COOL	SEPTEMBER 1 - 30	20-35	1-2
11. TRITICALE	COOL	SEPTEMBER 1 - 30	25-40	1-2

THIS TABLE WAS TAKEN FROM UDFCD FOR RECOMMENDED ANNUAL GRASSES FOR THE DENVER METROPOLITAN AREA. THIS TABLE MAY BE USED UNLESS A SITE-SPECIFIC SEED MIX IS REQUESTED AND APPROVED.

TABLE TS-1

### TEMPORARY SEEDING NOTES

#### INSTALLATION REQUIREMENTS

1. DISTURBED AREAS ARE TO BE SEEDED WITHIN 21 DAYS AFTER CONSTRUCTION ACTIVITY OR GRADING ENDS IF SEASON ALLOWS.
2. IF NECESSARY, SOIL IS TO BE CONDITIONED FOR PLANT GROWTH BY APPLYING TOPSOIL, FERTILIZER, OR LIME.
3. SOIL IS TO BE TILLED IMMEDIATELY PRIOR TO APPLYING SEEDS. COMPACT SOILS ESPECIALLY NEED TO BE LOOSENED.
4. SEEDED DEPTH IS TO BE 4 INCHES FOR SLOPES FLATTER THAN 2:1, AND 1 INCH FOR SLOPES STEEPER THAN 2:1.
5. ANNUAL GRASSES LISTED IN TABLE TS-1 ARE TO BE USED FOR TEMPORARY SEEDING. SEED MIXES ARE NOT TO CONTAIN ANY NOXIOUS WEED SEEDS INCLUDING RUSSIAN OR CANADIAN THISTLE, KNAPWEED, PURPLE LOOSESTRIPE, EUROPEAN BINDWEED, JOHNSON GRASS, AND LEAFY SPURGE.
6. TABLE TS-1 ALSO PROVIDES REQUIREMENTS FOR SEEDING RATES, SEEDING DATES, AND PLANTING DEPTHS FOR THE APPROVED TYPES OF ANNUAL GRASSES.
7. SEEDING IS TO BE APPLIED USING MECHANICAL TYPE DRILLS EXCEPT WHERE SLOPES ARE STEEP OR ACCESS IS LIMITED THEN HYDRAULIC SEEDING MAY BE USED.
8. ALL SEEDED AREAS ARE TO BE MULCHED (SEE FACTSHEET ON MULCHING).
9. IF HYDRAULIC SEEDING IS USED THEN HYDRAULIC MULCHING SHALL BE DONE SEPARATELY TO AVOID SEEDS BECOMING ENCAPSULATED IN THE MULCH.

#### MAINTENANCE REQUIREMENTS

1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL SEEDED AREAS TO ENSURE GROWTH.
2. AREAS WHERE GROWTH IS NOT OCCURRING QUICKLY OR THE MULCH HAS BEEN REMOVED SHALL BE RE-SEEDED AS SOON AS POSSIBLE AND RE-MULCHED IF NEEDED.
3. SEEDED AREAS ARE NOT TO BE DRIVEN OVER WITH CONSTRUCTION EQUIPMENT OR VEHICLES.

City of Colorado Springs  
Stormwater Quality

Figure TS-1  
Temporary Seeding  
Construction Detail and Maintenance  
Requirements

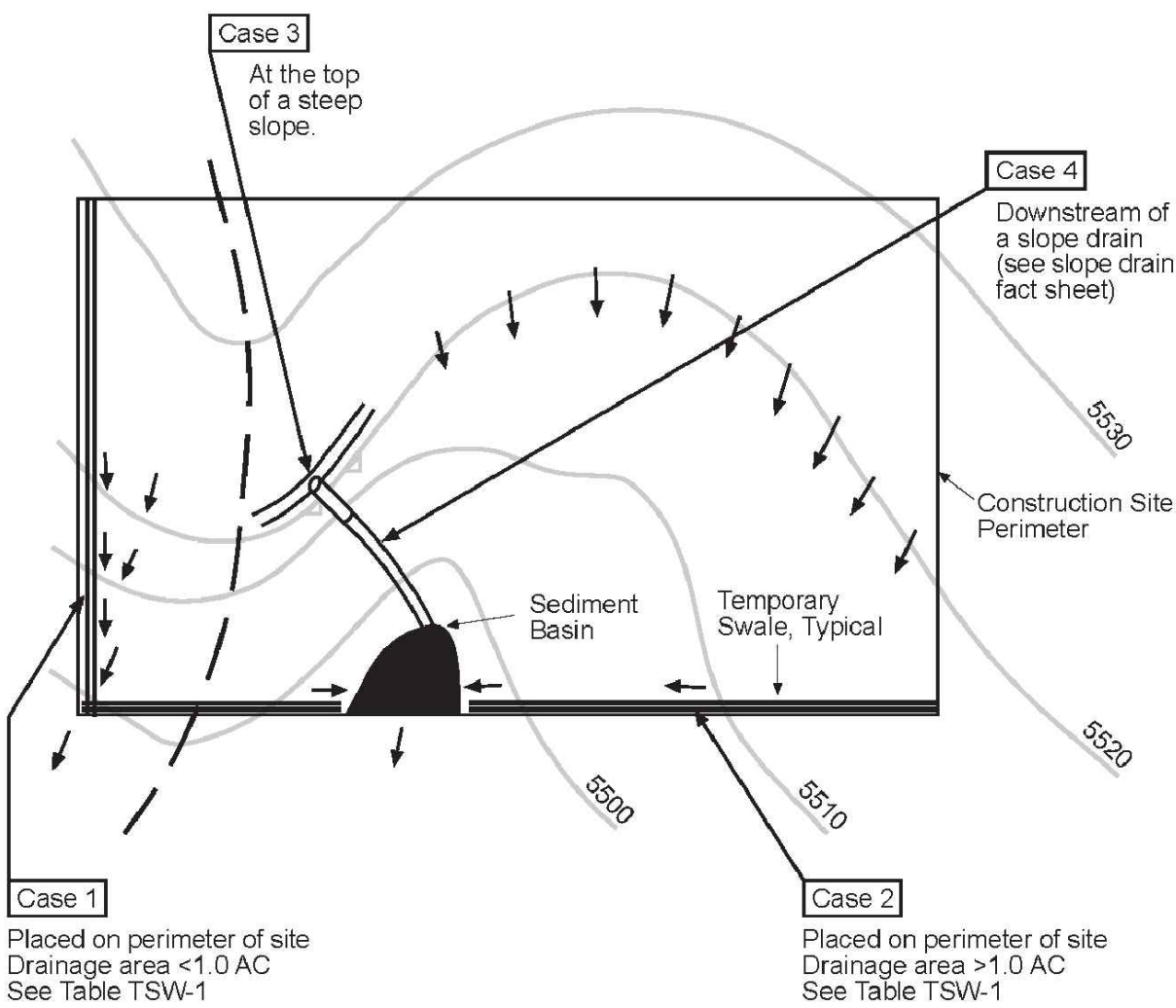


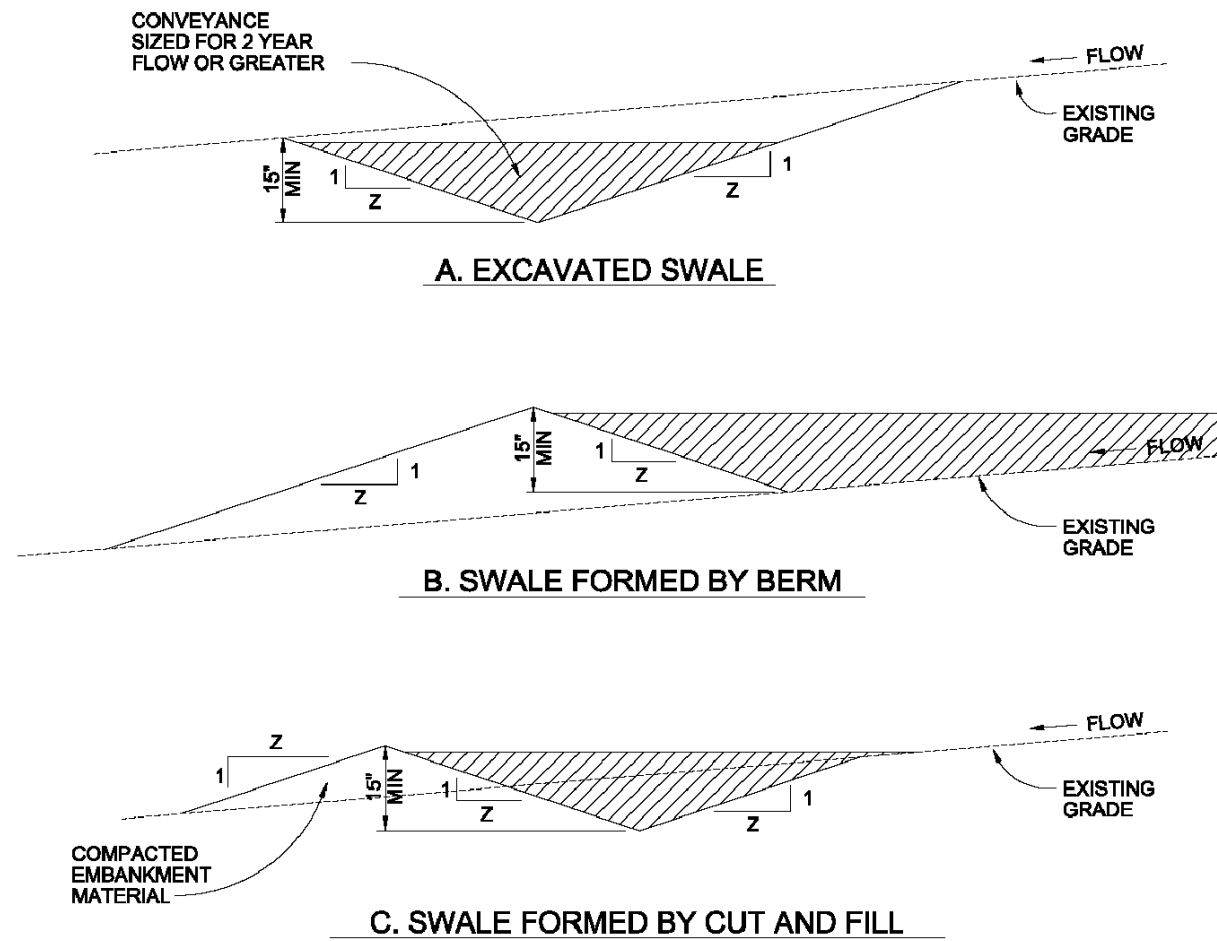
Table TSW-1

Temporary Swale Used as Perimeter Control	Case 1 DA < 1.0 AC	Case 2 DA > 1.0 AC
Continuous Grade	OK <sup>(1)</sup>	OK <sup>(1)</sup>
Area of Concentrated Flow	NO <sup>(3)</sup>	NO <sup>(2)</sup>

- (1) Silt Fence or Straw Bale Barrier may be used as alternative to a Temporary Swale.  
(2) With Temporary Swales Sediment Basin is required for concentrated flow from drainage areas > 1.0 AC.  
(3) Check Dam is required at concentrated flow for drainage areas > 1.0 acres.

City of Colorado Springs  
Storm Water Quality

Figure TSW-1  
Temporary Swale  
Construction Detail and Maintenance  
Requirements



### TEMPORARY SWALE NOTES

#### INSTALLATION REQUIREMENTS

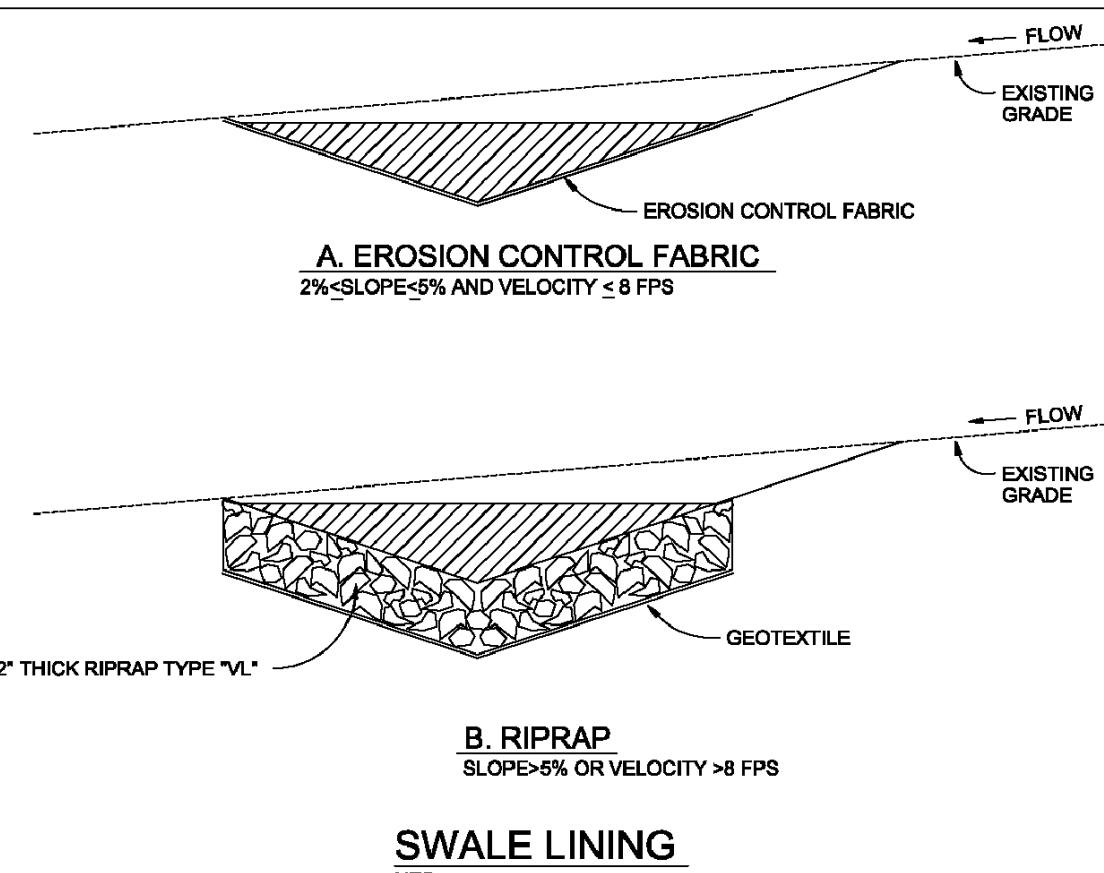
1. TEMPORARY SWALES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
2. THE AREA UNDER WHICH THE EMBANKMENT IS TO BE INSTALLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ALL VEGETATION AND ROOT MAT.
3. EMBANKMENT MATERIAL SHALL CONSIST OF SOIL WITH A MINIMUM OF 15% PASSING A #200 SIEVE. EXCAVATED SOIL CAN BE USED IF IT MEETS THIS REQUIREMENT.
4. EMBANKMENT IS TO BE COMPACTED TO AT LEAST 80% OF MAXIMUM DENSITY AND WITHIN 2% OF OPTIMUM MOISTURE CONTENT ACCORDING TO ASTM D 698.
5. SWALES WITH SLOPE > 2% SHALL BE LINED. SEE FIGURE TSW-3.
8. SWALES ARE TO DRAIN INTO A SEDIMENT BASIN OR OTHER STABILIZED OUTLET.
7. Z SHALL BE 3 OR GREATER.

#### MAINTENANCE REQUIREMENTS

1. CONTRACTOR SHALL INSPECT SWALES AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS OF NO RAINFALL.
2. SWALES SHALL BE ROUTINELY CLEARED OF ANY DEBRIS OR ACCUMULATION OF SEDIMENT.
3. ERODED SLOPES OR DAMAGED LININGS SHALL IMMEDIATELY BE REPAIRED.
4. TEMPORARY SWALES SHALL REMAIN OPERATIONAL AND PROPERLY MAINTAINED UNTIL THE SITE AREA IS PERMANENTLY STABILIZED WITH ADEQUATE VEGETATIVE COVER AND/OR OTHER PERMANENT STRUCTURE AS APPROVED BY THE CITY.

City of Colorado Springs

Figure TSW-2  
Temporary Swale



### SWALE LINING NOTES

#### INSTALLATION REQUIREMENTS

1. REFER TO THE EROSION CONTROL BLANKETS FACTSHEET FOR PROPER INSTALLATION OF EROSION CONTROL FABRIC LINING.
2. SWALES WITH EASILY EROSION SOILS AND SLOPES LESS THAN 2% SHALL BE LINED WITH EROSION CONTROL FABRIC.
3. VELOCITIES FOR EROSION CONTROL FABRICS SHALL NOT EXCEED 8 FPS. SWALES WITH VELOCITIES GREATER THAN 8 FPS SHALL BE LINED WITH RIP RAP.

#### MAINTENANCE REQUIREMENTS

1. CONTRACTOR SHALL INSPECT SWALE LININGS AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL AND WEEKLY DURING PERIODS OF NO RAINFALL.
2. DAMAGED LININGS SHALL IMMEDIATELY BE REPAIRED.
3. REFER TO THE EROSION CONTROL BLANKETS FACTSHEET FOR PROPER MAINTENANCE.
4. DISPLACED RIPRAP OR COARSE AGGREGATE IS TO BE REPLACED AS SOON AS POSSIBLE.
5. SWALE LININGS ARE TO REMAIN IN PLACE AND BE PROPERLY MAINTAINED UNTIL THE TEMPORARY SWALE IS REMOVED.

City of Colorado Springs

Figure TSW-3  
Swale Linings

### MULCHING NOTES

#### INSTALLATION REQUIREMENTS

1. ALL DISTURBED AREAS MUST BE MULCHED WITHIN 21 DAYS AFTER FINAL GRADE AND SEEDED AREAS ARE TO BE MULCHED WITHIN 24 HOURS AFTER SEEDING.
2. MATERIAL USED FOR MULCH CAN BE CERTIFIED CLEAN, WEED- AND SEED-FREE LONG STEMMED FIELD OR MARSH HAY, OR STRAW OF OATS, BARLEY, WHEAT, RYE, OR TRITICALE. CERTIFIED BY THE COLORADO DEPARTMENT OF AGRICULTURE WEED FREE FORAGE CERTIFICATION PROGRAM.
3. HYDRAULIC MULCHING MATERIAL SHALL CONSIST OF VIRGIN WOOD FIBER MANUFACTURED FROM CLEAN WHOLE WOOD CHIPS. WOOD CHIPS CANNOT CONTAIN ANY GROWTH OR GERMINATION INHIBITORS OR BE PRODUCED FROM RECYCLED MATERIAL. GRAVEL CAN ALSO BE USED.
4. MULCH IS TO BE APPLIED EVENLY AT A RATE OF 2 TONS PER ACRE.
5. MULCH IS TO BE ANCHORED EITHER BY CRIMPING (TUCKING MULCH FIBERS 4 INCHES INTO THE SOIL), USING NETTING (USED ON SMALL AREAS WITH STEEP SLOPES), OR WITH A TACKIFIER.
6. HYDRAULIC MULCHING AND TACKIFIERS ARE NOT TO BE USED IN THE PRESENCE OF FREE SURFACE WATER.

#### MAINTENANCE REQUIREMENTS

1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL MULCHED AREAS.
2. MULCH IS TO BE REPLACED IMMEDIATELY IN THOSE AREAS IT HAS BEEN REMOVED, AND IF NECESSARY THE AREA SHOULD BE RESEEDED.

City of Colorado Springs  
Stormwater Quality

Figure MU-1  
Mulching  
Construction Detail and Maintenance  
Requirements

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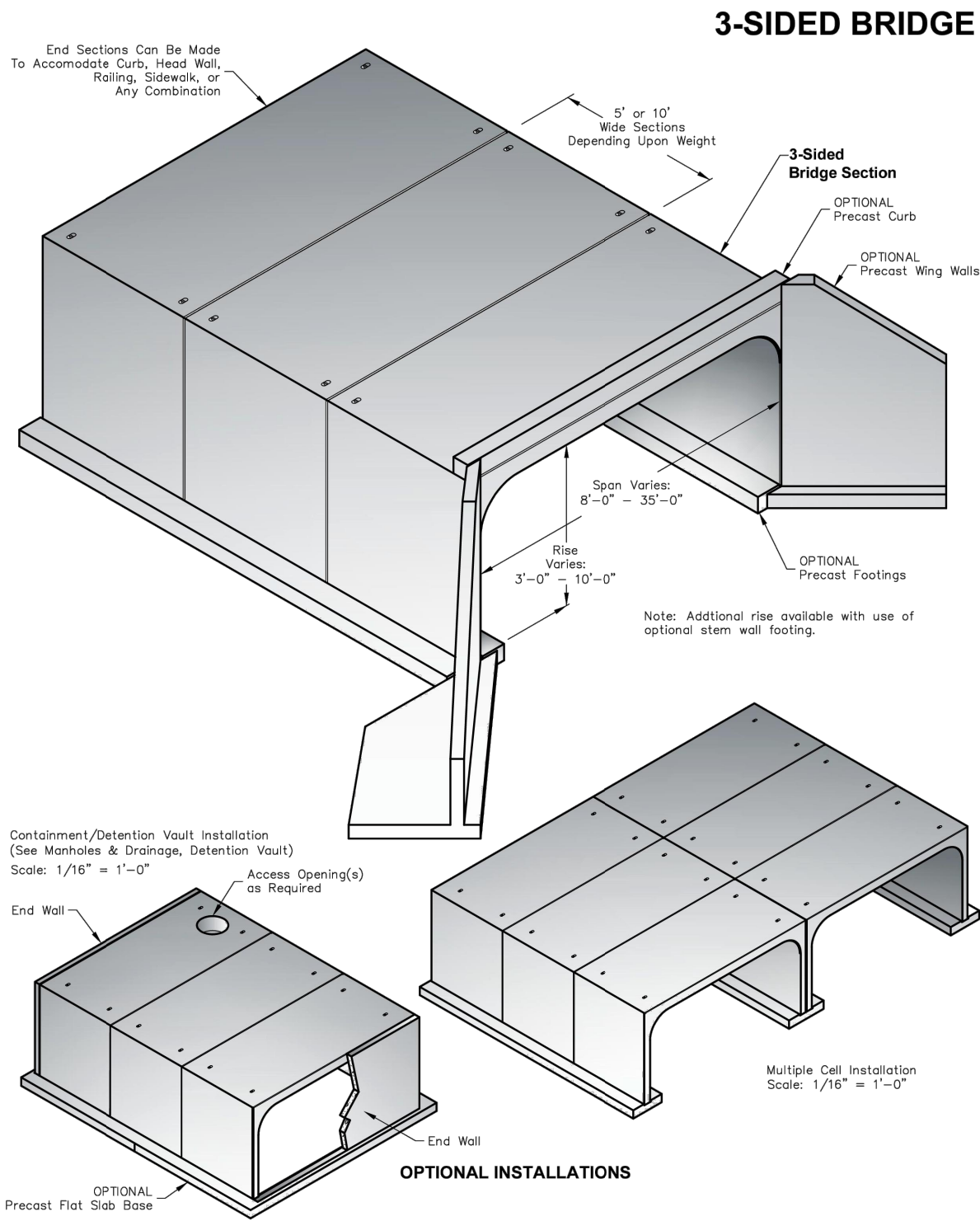
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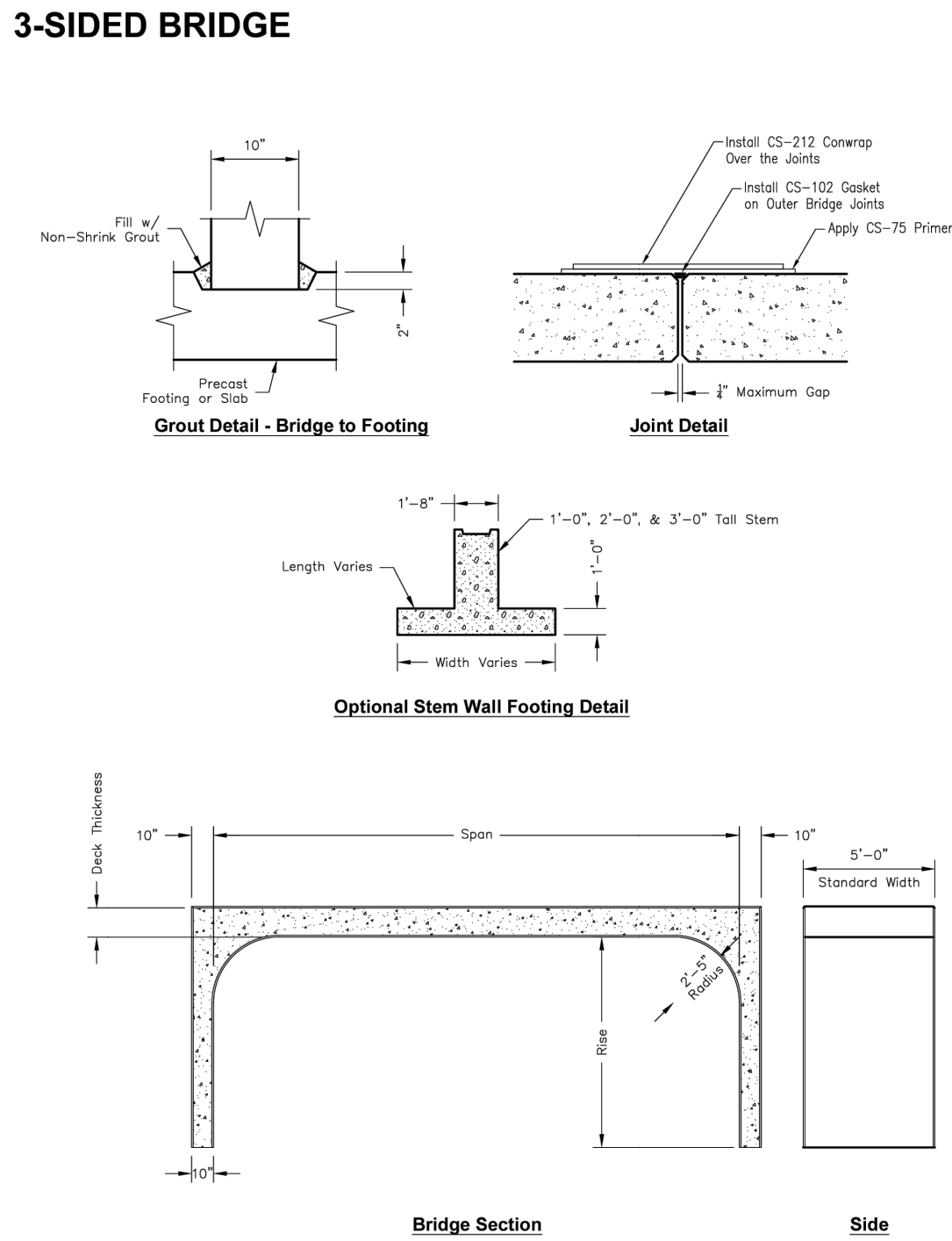
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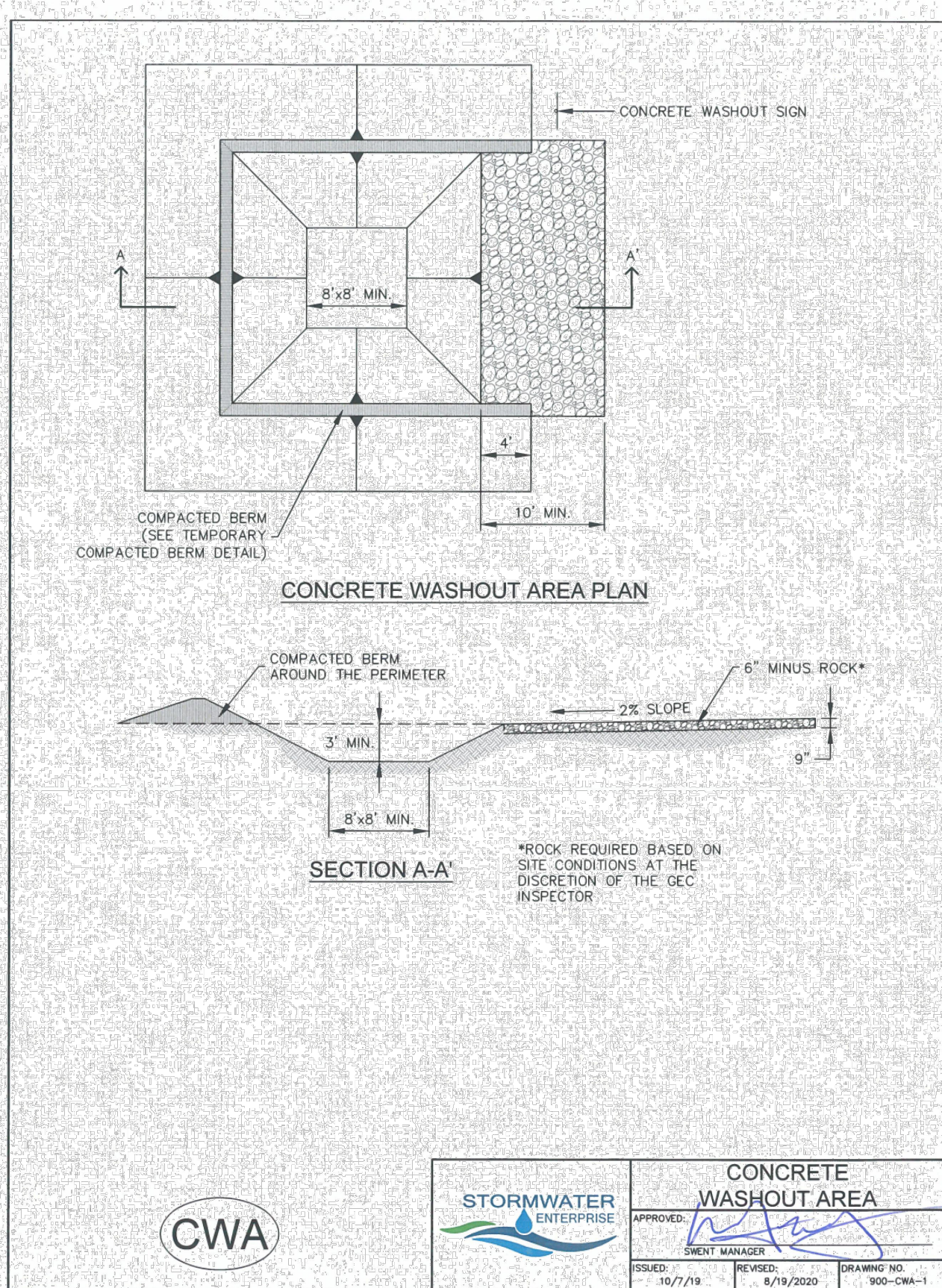
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- INSTALLATION NOTES**
- SEE PLAN VIEW FOR: -LOCATION OF CONCRETE WASHOUT AREA
  - LOCATE AT LEAST 50' AWAY FROM STATE WATERS MEASURED HORIZONTALLY.
  - AN IMPERMEABLE LINER (16 MIL MINIMUM THICKNESS) IS REQUIRED IF CONCRETE WASH AREA IS LOCATED WITHIN 400' OF STATE WATERS OR 1000' OF WELLS OR DRINKING WATER SOURCES.
  - DO NOT LOCATE IN AREAS WHERE SHALLOW GROUNDWATER MAY BE PRESENT.
  - THE CONCRETE WASH AREA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
  - CONCRETE WASH AREA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8'.
  - BERM SURROUNDING SIDES AND BACK OF CONCRETE WASH AREA SHALL HAVE A MINIMUM HEIGHT OF 2 FEET.
  - CONCRETE WASH AREA ENTRANCE SHALL BE SLOPED 2% TOWARDS THE CONCRETE WASH AREA.
  - SIGNS SHALL BE PLACED AT THE CONCRETE WASH AREA.
  - USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.
- MAINTENANCE NOTES**
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
  - THE CONCRETE WASH AREA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS ACCUMULATED IN THE PIT SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 3/4 THE HEIGHT OF THE CONCRETE WASH AREA.
  - 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 CONCRETE WASH AREA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
  - PERMANENTLY STABILIZE AREA AFTER CONCRETE WASH AREA IS REMOVED.



	<b>CONCRETE WASHOUT AREA</b>	<b>CONCRETE WASHOUT AREA</b>
	APPROVED: 	
	STORMWATER ENTERPRISE	
	ISSUED: 10/7/19 REVISED: 8/19/2020 DRAWING NO. 900-CWA-2	

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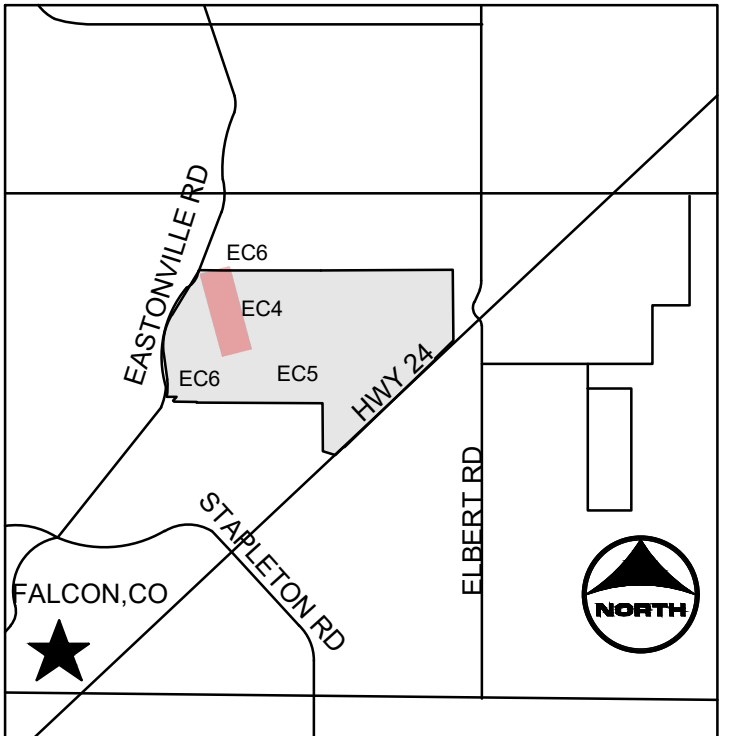
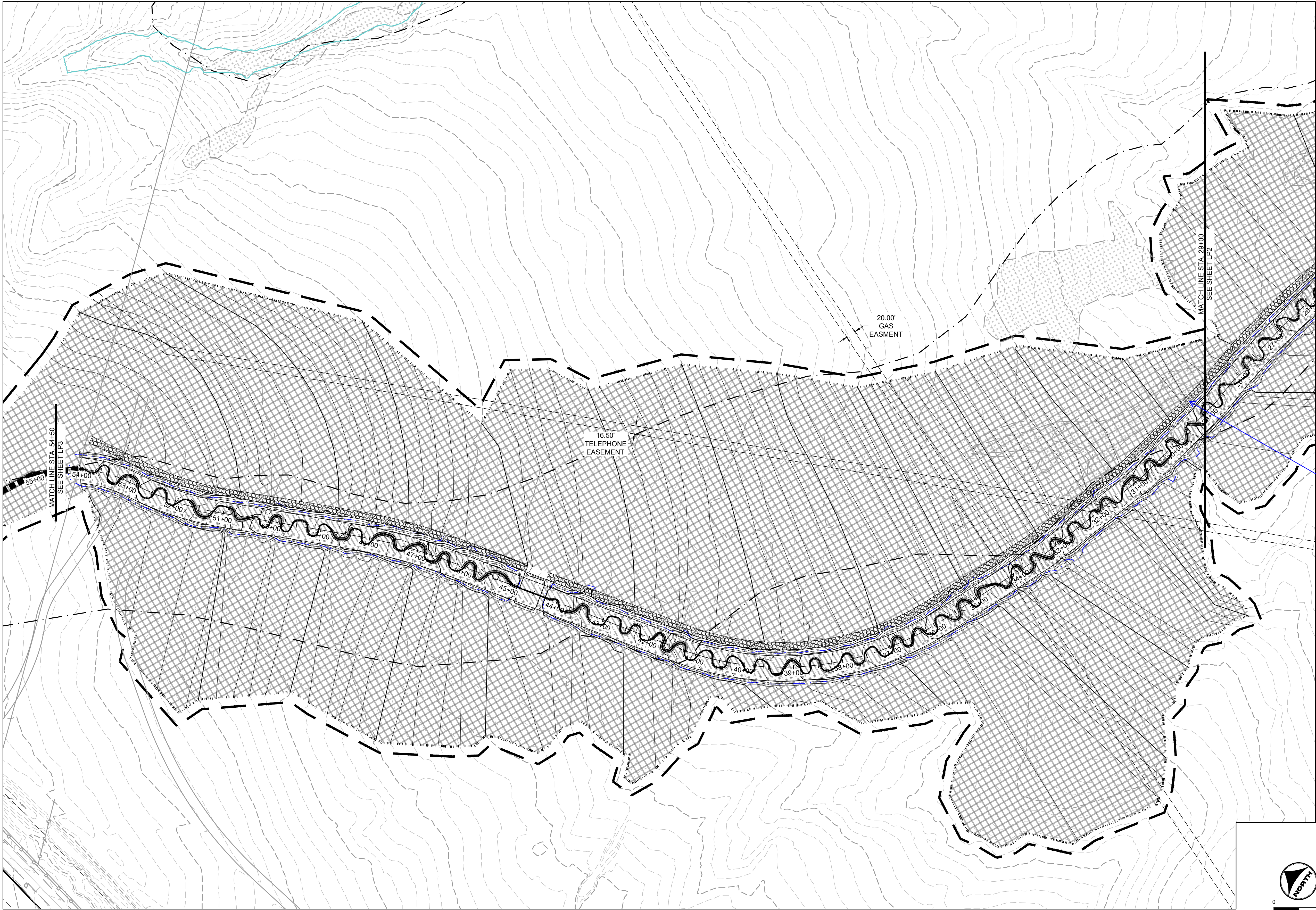
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KEYMAP	
GROUNDCOVER LEGEND	
SYMBOL	DESCRIPTION
	UPLAND AREA SEED MIX
	RIPARIAN SEED MIX
	WETLAND SEED MIX
	MAINTENANCE TRAIL
	PROPOSED 100-YR FLOODPLAIN
	EXISTING 100 YR FLOODPLAIN

symbols don't match

Please add these to typical section or copy the typical section and add on these sheets

TRAIL IS ALREADY IN TYPICAL SECTION

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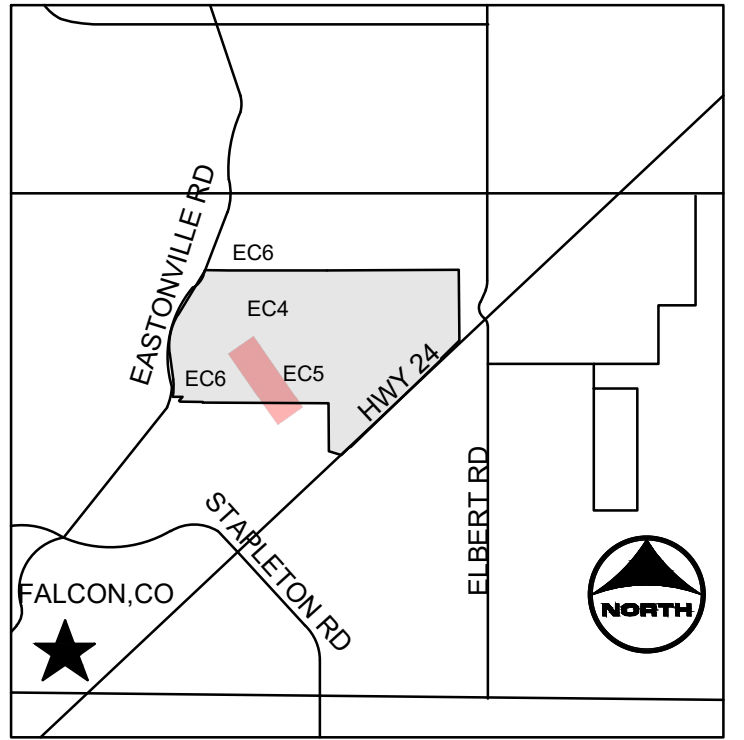
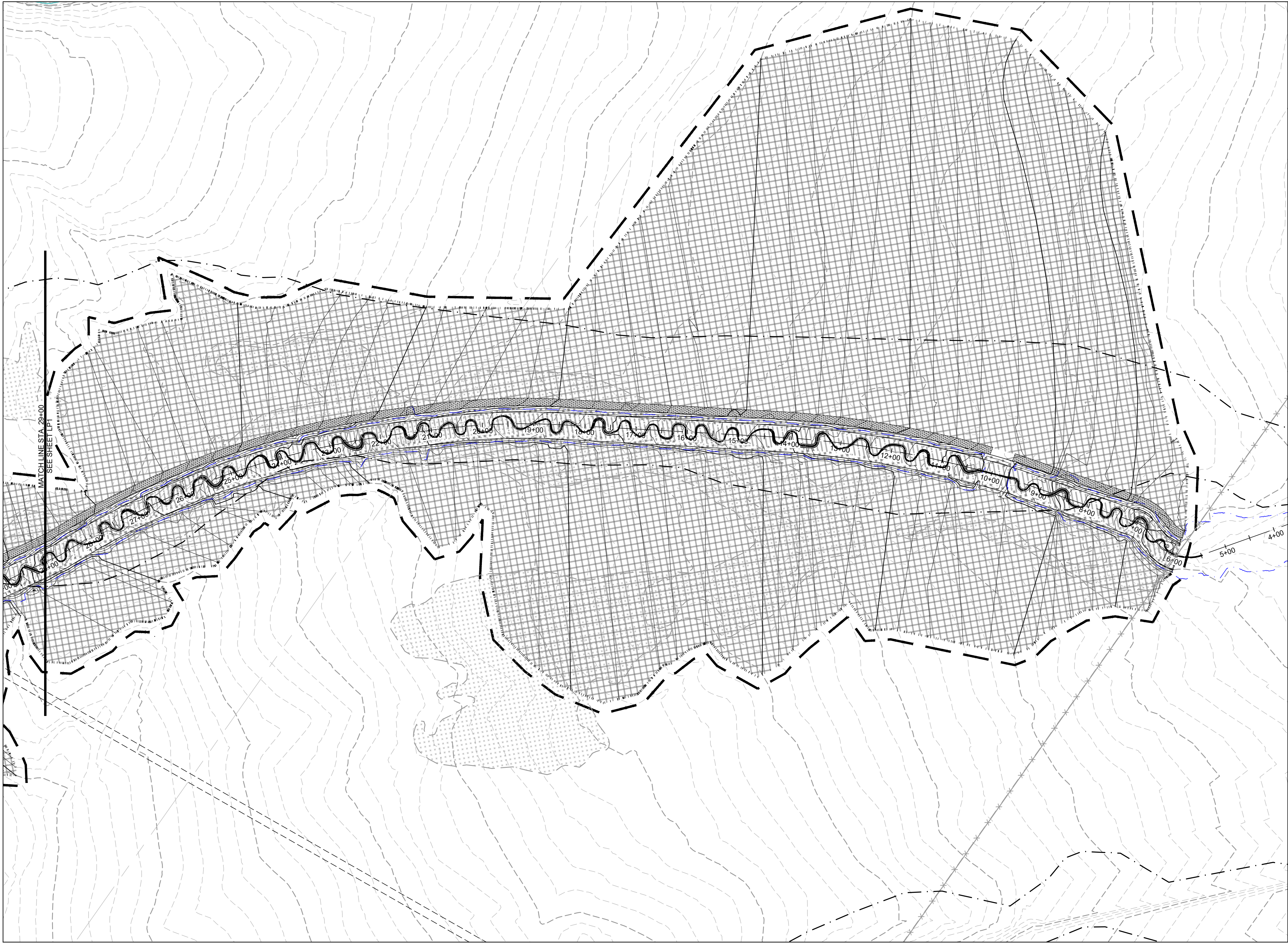
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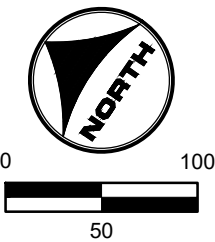
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KEYMAP	
GROUNDCOVER LEGEND	
SYMBOL	DESCRIPTION
	UPLAND AREA SEED MIX
	RIPARIAN SEED MIX
	WETLAND SEED MIX
	MAINTENANCE TRAIL
	PROPOSED 100-YR FLOODPLAIN
	EXISTING 100 YR FLOODPLAIN



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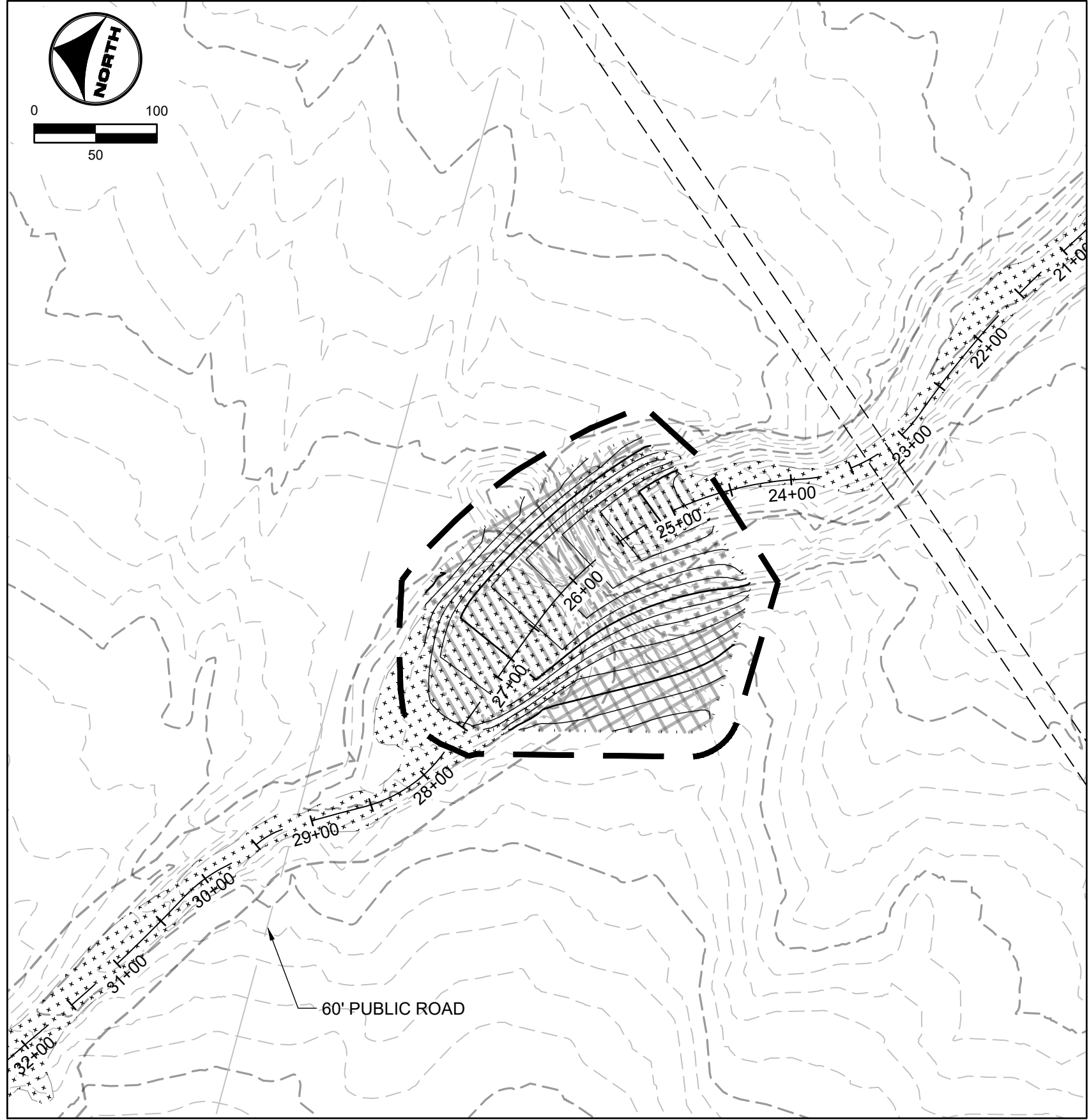
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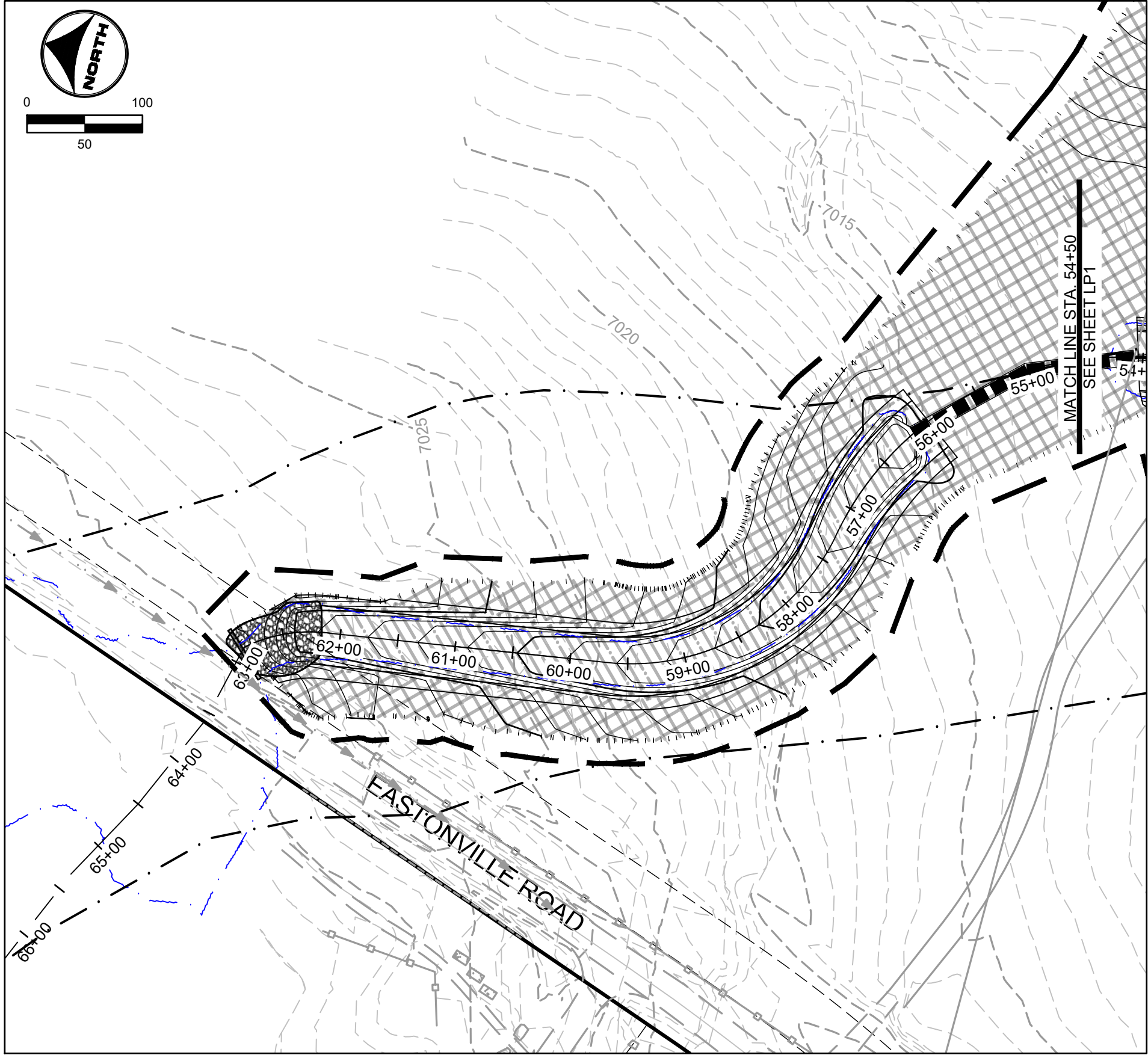
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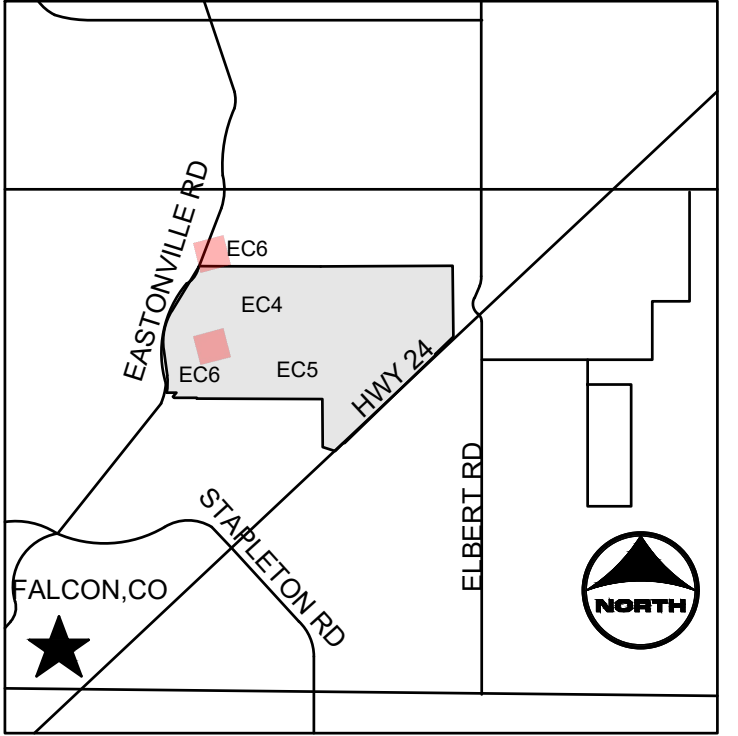




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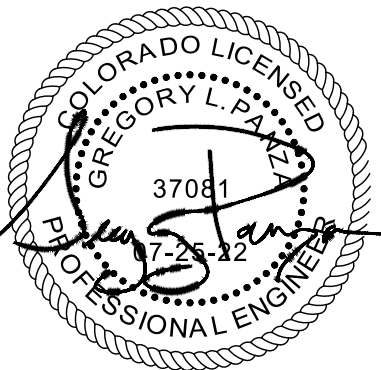
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KEYMAP

GROUNDCOVER LEGEND

SYMBOL	DESCRIPTION
	UPLAND AREA SEED MIX
	RIPARIAN SEED MIX
	WETLAND SEED MIX
	MAINTENANCE TRAIL
	PROPOSED 100-YR FLOODPLAIN
	EXISTING 100 YR FLOODPLAIN



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GENERAL SEEDING PLAN NOTES:

- LANDSCAPE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES NECESSARY TO FURNISH AND INSTALL SEEDING AS SPECIFIED HEREIN AND AS SHOWN ON THESE PLANS.
- NO MATERIAL SUBSTITUTIONS SHALL BE MADE WITHOUT LANDSCAPE ARCHITECT'S APPROVAL. ALTERNATE MATERIALS OF SIMILAR SIZE AND CHARACTER MAY BE CONSIDERED IF SPECIFIED PLANT MATERIALS CANNOT BE OBTAINED. OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REVISE PLANT LIST AS DEEMED NECESSARY.
- CONTRACTOR SHALL LOCATE ALL UTILITIES BEFORE WORK. UTILITIES HAVE BEEN SHOWN ON PLAN FOR ROUGH LOCATION OF SERVICES. LOCATE EXACT UTILITY LOCATIONS BY CONTACTING "CALL BEFORE YOU DIG" AT (800) 922-1987 OR 811. CONTRACTOR WILL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE HE MAY CAUSE TO UTILITIES.
- REMOVE ALL RUBBISH, EQUIPMENT, AND MATERIAL AND LEAVE THE AREA IN A NEAT, CLEAN CONDITION EACH DAY. MAINTAIN PAVED AREAS UTILIZED FOR HAULING EQUIPMENT AND MATERIALS BY OTHER TRADES IN A CLEAN AND UNOBSTRUCTED CONDITION AT ALL TIMES.
- STORAGE OF ANY MATERIALS, BUILDINGS, VEHICLES OR EQUIPMENT, FENCING AND WARNING SIGNS SHALL BE MAINTAINED THROUGHOUT THE SITE WORK AND CONSTRUCTION PERIODS BY THE CONTRACTOR.

IRRIGATION:

- ALL NATIVE LOW GROW SEEDING SHALL BE TEMPORARILY IRRIGATED UNTIL ESTABLISHMENT.
- THE CONTRACTOR SHALL PROVIDE WATER, WATERING DEVICES, AND LABOR NEEDED TO IRRIGATE PLANT MATERIALS UNTIL AUTOMATIC IRRIGATION SYSTEMS ARE OPERATIONAL AND ACCEPTED. THE CONTRACTOR SHALL SUPPLY ENOUGH WATER TO MAINTAIN THE PLANT'S HEALTHY CONDITION BASED ON SEASONAL CONSIDERATIONS

REVEGETATION NOTES:

- MATERIALS PLANTED PRIOR TO INSPECTION AND ACCEPTANCE OF PLANTS DELIVERED TO THE SITE ARE SUBJECT TO REJECTION.
- CONTRACTOR IS RESPONSIBLE FOR DETERMINING SOURCE LOCATIONS (ON- OR OFF-SITE) FOR ALL HARVESTED MATERIALS. OFF-SITE PLANT MATERIALS SHALL ONLY BE USED UPON APPROVAL.
- SEEDING OR PLANTING SHALL NOT OCCUR WHEN THE GROUND IS FROZEN, WHEN FREEZING TEMPERATURES ARE FORECASTED WITHIN 24 HOURS, OR WHEN CONDITIONS ARE OTHERWISE UNSUITABLE.
- CONTRACTOR SHALL CONDUCT A SOIL TEST FOR TOP SOIL STOCKPILED ON THE SITE PRIOR TO APPLICATION OF SOIL CONDITIONER, SEEDING OR PLANTING. SOIL TEST SAMPLES SHALL ALSO BE TAKEN APPROXIMATELY EVERY 1,000 FEET ALONG THE GRADED CHANNEL FOR THE SUBGRADE SOILS AND TESTED. A RECOMMENDED SOIL CONDITIONING AMENDMENT AND APPLICATION RATE SHALL BE DETERMINED BASED ON THE SOIL TEST RESULTS. NO SOIL CONDITIONING, SEEDING, OR PLANTING SHALL OCCUR PRIOR TO SOIL TEST AND UNTIL A SOIL CONDITIONING AMENDMENT IS ACCEPTED.
- CONTRACTOR SHALL BE REQUIRED TO SUBMIT SIGNED STATEMENTS OF GUARANTEE AND/OR CERTIFICATIONS FROM VENDORS WHO SUPPLY SEED AND SOIL CONDITIONER STATING THAT THE SEED FURNISHED IS FROM A LOT THAT HAS BEEN TESTED BY A RECOGNIZED LABORATORY FOR SEED TESTING WITHIN TWELVE (12) MONTHS PRIOR TO THE DATE OF SEEDING.
- CONTRACTOR SHALL SUBMIT A LAB TEST OF COMPOST SAMPLE TO BE USED FOR APPROVAL. LAB TEST OF COMPOST SHALL BE TAKEN FROM THE SAME SOURCE THAT IS TO BE USED ON THIS PROJECT. LAB TEST SHALL BE TAKEN A MAXIMUM OF SIX (6) MONTHS PRIOR TO APPLICATION. THE COMPOST SHALL BE TESTED IN ACCORDANCE WITH THE U.S. COMPOSTING COUNCIL'S TEST METHODS FOR EXAMINING OF COMPOSTING AND COMPOST (TMECC) MANUAL.
- ALL MATERIALS SHALL BE FURNISHED IN ORIGINAL MANUFACTURER'S SHIPPING BAGS OR CONTAINERS AND REMAIN IN THESE BAGS OR CONTAINERS UNTIL THEY ARE USED. ALL MATERIALS SHALL BE STORED IN A MANNER THAT WILL PREVENT THEM FROM COMING INTO CONTACT WITH PRECIPITATION, SURFACE WATER, OR ANY OTHER CONTAMINATING SUBSTANCE. ANY MATERIALS THAT HAVE BECOME WET, MOLDY, OR OTHERWISE DAMAGED IN TRANSIT OR IN STORAGE SHALL NOT BE USED.
- ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE FREE OF NOXIOUS WEEDS INCLUDING BUT NOT LIMITED TO RUSSIAN KNAWWEED, DIFFUSE KNAWWEED, CANADA THISTLE, FIELD BINDWEED, JOHNSONGRASS, LEAFY SPURGE, KOCHIA, OR ANY STATE OR DISTRICT CRITERIA MANUAL-LISTED NOXIOUS WEED SPECIES.

SOIL AMENDMENTS:

- PLACE TOPSOIL IN ALL WORK AREAS AND AMEND WITH 2 CUBIC YARDS PER 1,000 SQUARE FEET OF COMPOST
- SOIL AMENDMENT SOLUTIONS WILL BE COMPLETED UPON THE COMPLETION OF SOIL TESTING.
- INCORPORATE COMPOST INTO TOPSOIL TO A DEPTH OF 8 TO 12 INCHES

SEEDING:

- ALL SEED SHALL BE FURNISHED IN BAGS OR CONTAINERS CLEARLY AND PROPERLY LABELED TO SHOW THE NAME AND ADDRESS OF THE SUPPLIER, THE SEED NAME, THE LOT NUMBER, NET WEIGHT, ORIGIN, THE PERCENT OF WEED SEED CONTENT, THE GUARANTEED PERCENTAGE OF PURITY AND GERMINATION, POUNDS OF PURE LIVE SEED (PLS) OF EACH SEED SPECIES, AND THE TOTAL POUNDS OF PLS IN THE CONTAINER. ALL SEED SHALL BE GUARANTEED FOR PURITY AND GERMINATION, FREE OF NOXIOUS WEED SEED AND SUPPLIED ON A PURE LIVE SEED (PLS) BASIS.
- ALL SPECIFIED SEED MIXES SHALL CONSIST OF CERTIFIED SEED VARIETIES THAT ARE FREE OF NOXIOUS WEEDS AND HAVE BEEN TESTED FOR PURITY AND GERMINATION WITHIN SIX MONTHS OF THE PLANTING DATE. CERTIFICATION LABELS WHICH INDICATE THE SPECIES, PURITY, GERMINATION, WEED CONTENT, ORIGIN, AND TEST DATE SHALL BE SUBMITTED FOR ALL SEED MATERIALS.

SITE PREPARATION:

- ALL DISTURBED AREAS SHALL BE RIPPED TO A MINIMUM DEPTH OF EIGHT (8) INCHES, WITH NO MORE THAN A TEN (10) INCH INTERVAL BETWEEN FURROWS. SLOPES FLATTER THAN 2:1 SHALL HAVE A WELL SETTLED SEEDBED EIGHT (8) INCHES DEEP. SLOPES 2:1 OR STEEPER SHALL BE LEFT IN A ROUGHENED CONDITION.
  - SLOPES SHALL BE FREE OF SOIL CLOUDS, STICKS, STONES, AND DEBRIS IN EXCESS OF FOUR (4) INCHES IN ANY DIMENSION, AND BE BROUGHT TO THE DESIRED GRADE AND LINE. SOIL PREPARATION FOR SEEDING SHALL NOT OCCUR WHEN SOIL IS FROZEN OR IN AN EXTREME WET OR DRY CONDITION.

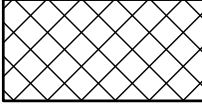
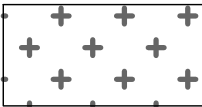
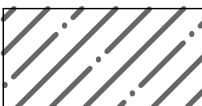
SEEDING:

- SEEDING SHALL BE RESTRICTED TO BETWEEN SPRING THAW AND JUNE 1 AND BETWEEN SEPTEMBER 1 UNTIL CONSISTENT GROUND FREEZE AND SHALL NOT BE APPLIED DURING INCLEMENT WEATHER INCLUDING RAIN AND HIGH WINDS, OR WHEN SOIL MOISTURE IS TOO HIGH TO EVENLY DISTRIBUTE SEED. SEEDING SHALL BE ACCOMPLISHED WITHIN 24 HOURS OF PREPARING THE SEEDING SURFACE.
- DRILL SEEDING OR BROADCAST SEEDING SHALL BE USED FOR REVEGETATION. AS OUTLINED BELOW, THE SIZE AND SLOPE OF THE DISTURBED AREA SHALL DETERMINE WHICH SEEDING METHOD(S) IS APPROPRIATE AND ACCEPTABLE. WHERE FEASIBLE, DRILL SEEDING IS THE REQUIRED METHOD. IF BROADCAST SEEDING IS EMPLOYED, EITHER BY HAND, SPREADER, OR OTHER APPROVED MEANS, THE SEEDING RATE (PLS LBS/ACRE) SHALL BE DOUBLED AS SHOWN ON THE DESIGN PLAN. HYDROMULCHING, HYDRAULIC SEEDING AND STRAW MULCHING WILL NOT BE ACCEPTED.
- FOR SLOPES EQUAL TO OR LESS THAN 3:1, SEED SHALL BE PLANTED USING A RANGELAND DRILL WITH A SMALL SEED/LEGUME BOX AND AN AGITATOR BOX FOR FLUFFY OR BULKY SEED. SEED ROWS SHALL BE SPACED SEVEN (7) TO TEN (10) INCHES APART, AND PLANTED ½ INCH TO ¾ INCH DEEP. THE DRILL SHALL HAVE DOUBLE-DISK FURROW OPENERS WITH DEPTH BANDS AND PACKER WHEELS. SEEDING SHALL BE ACCOMPLISHED USING BI-DIRECTIONAL DRILLING AND WITH THE SECOND DIRECTION FOLLOWING THE SLOPE CONTOUR. THE DRILL EQUIPMENT SHALL BE CALIBRATED EACH DAY OR WHENEVER THERE IS A CHANGE IN THE SEED MIX TO ENSURE PROPER SEED DISTRIBUTION AND RATE.
- FOR SLOPES GREATER THAN 3:1, SEED SHALL BE BROADCAST BY HAND OR MECHANICAL SPREADER. ALL SEED SOWN BY BROADCAST-TYPE SEEDERS SHALL BE "RAKED IN" OR COVERED WITH SOIL TO A DEPTH OF AT LEAST ¼ INCH. BROADCAST SEEDING SHALL PROCEED ON FRESHLY DISTURBED (RAKED OR HARROWED) SOIL SURFACE AND BROADCAST SEED SHALL BE IMMEDIATELY RAKED OR HARROWED INTO THE SURFACE. RAKING SHALL BE ACCOMPLISHED USING METAL-TINED GARDEN OR LANDSCAPE RAKES. NO PLASTIC LEAF RAKES SHALL BE ALLOWED. IF HARROWING IS USED, AN ENGLISH HARROW OR ITS EQUIVALENT SHALL BE REQUIRED. BROADCAST SEEDING SHALL BE AVOIDED WHEN WIND SPEED EXCEEDS 15 MILES-PER-HOUR.
- FOLLOWING SEEDING, ALL SEEDED AREAS SHALL BE WATERED SUFFICIENTLY AS TO SATURATE THE SOILS.

TOPSOIL, SEEDING, AND COCONUT FABRIC NOTES:

- WITHIN THE PROJECT AREA, ANY AREAS WITH ADEQUATE TOPSOIL (IN PLACES WHERE NOT HARVESTING SOD) SHALL BE STRIPPED AND STOCKPILED FOR REUSE.
- ALL AREAS OF SEEDING WILL RECEIVE 4" OF TOPSOIL.
- IF ONSITE CONDITIONS DO NOT YIELD ADEQUATE TOPSOIL, SOIL CONDITIONER SHALL BE APPLIED.
- IMPORTED SOIL CONDITIONER WILL BE AT A RATE OF 5 CUBIC YARDS PER 1,000 SQUARE FEET. SOIL CONDITIONER SHALL BE EVENLY DISTRIBUTED AND TILLED TO A DEPTH OF 8" MINIMUM.

GROUND COVER SQUARE FOOTAGE

SYMBOL	DESCRIPTION
	UPLAND NATIVE SEED MIX 2,623,838 SF
	RIPARIAN NATIVE SEED MIX 530,962 SF
	WETLAND NATIVE SEED MIX 327,903 SF

UPLAND NATIVE SEED MIX

Common Name	Scientific Name	Growth Season	Growth Form	% Mix	Lb/Ac (PLS¹)
Grasses					
Blue grama	Bouteloua gracilis	Warm	Sod	25	1.8
Sand dropseed	Sporobolus cryptandrus	Warm	Bunch	20	0.2
Sideoats grama	Bouteloua curtipendula	Warm	Sod	20	6.3
Western wheatgrass	Pascopyrum smithii	Cool	Sod	15	8.2
Buffalograss	Bouteloua dactyloides	Warm	Sod	10	10.7
Inland saltgrass	Distichlis spicata	Warm	Sod	5	0.6
Herbaceous/Wildflowers					
Pasture sage	Artemisia frigida			1	0.01
Blanket flower	Gaillardia aristata			1	0.5
Prairie coneflower	Ratibida columnifera			1	0.1
Dalea (Petalostemum) purpurea				1	0.3
Blue flax	Linum lewisii			1	0.4
TOTAL PLS POUNDS/ACRE				100	29.11
¹PLS=PURE LIVE SEED - IF BROADCAST SEEDING, DOUBLE THE RATE					

RIPARIAN NATIVE SEED MIX

Common Name	Scientific Name	Growth Season	Growth Form	% Mix	Lb/Ac (PLS¹)
Grasses					
Blue grama	Bouteloua gracilis	Warm	Sod	25	1.8
Sand dropseed	Sporobolus cryptandrus	Warm	Bunch	20	0.2
Switchgrass	Panicum virgatum	Warm	Sod/Bunch	20	3.2
Sideoats grama	Bouteloua curtipendula	Warm	Sod	20	6.3
Western wheatgrass	Pascopyrum smithii	Cool	Sod	15	8.2
Green needlegrass	Nasella viridula	Cool	Bunch	10	3.3
Herbaceous/Wildflowers					
Smooth aster	Aster laevis			1	0.1
Louisiana sage	Artemisia ludoviciana			1	0.1
Helioomeris multiflora (aka Viguiera)				1	0.1
Showy goldeneye	Gaillardia aristata			1	0.5
Prairie coneflower	Ratibida columnifera			1	0.1
TOTAL PLS POUNDS/ACRE				100	19.3
¹PLS=PURE LIVE SEED - IF BROADCAST SEEDING, DOUBLE THE RATE					

WETLAND NATIVE SEED MIX

Common Name	Scientific Name	Growth Season	Growth Form	% Mix	Wetland Indicator*	Lb/Ac (PLS¹)
Grasses						
American Sloughgrass	Beckmannia syzigachne	Cool	Sod	15	OBL	0.8
Prairie cordgrass	Spartina pectinata	Warm	Sod	15	FACW	4.6
Switchgrass	Panicum virgatum	Warm	Sod/Bunch	15	FAC	2.3
Western wheatgrass	Pascopyrum smithii	Cool	Sod	10	FACU	5.5
Fowl mannagrass	Glyceria striata	Cool	Sod	10	OBL	3.3
Hardstem bulrush	Scirpus acutus			10	OBL	1.6
Baltic rush	Juncus balticus			10	OBL	0.1
Creeping spikerush	Eleocharis palustris			10	OBL	1.0
Wildflowers						
Blue vervain	Vferbena hastata			2.5	FACW	0.1
Nuttall's sunflower	Helianthus nuttallii			2.5	FAC	0.5
TOTAL PLS POUNDS/ACRE				100		19.8
¹PLS=PURE LIVE SEED - IF BROADCAST SEEDING, DOUBLE THE RATE						

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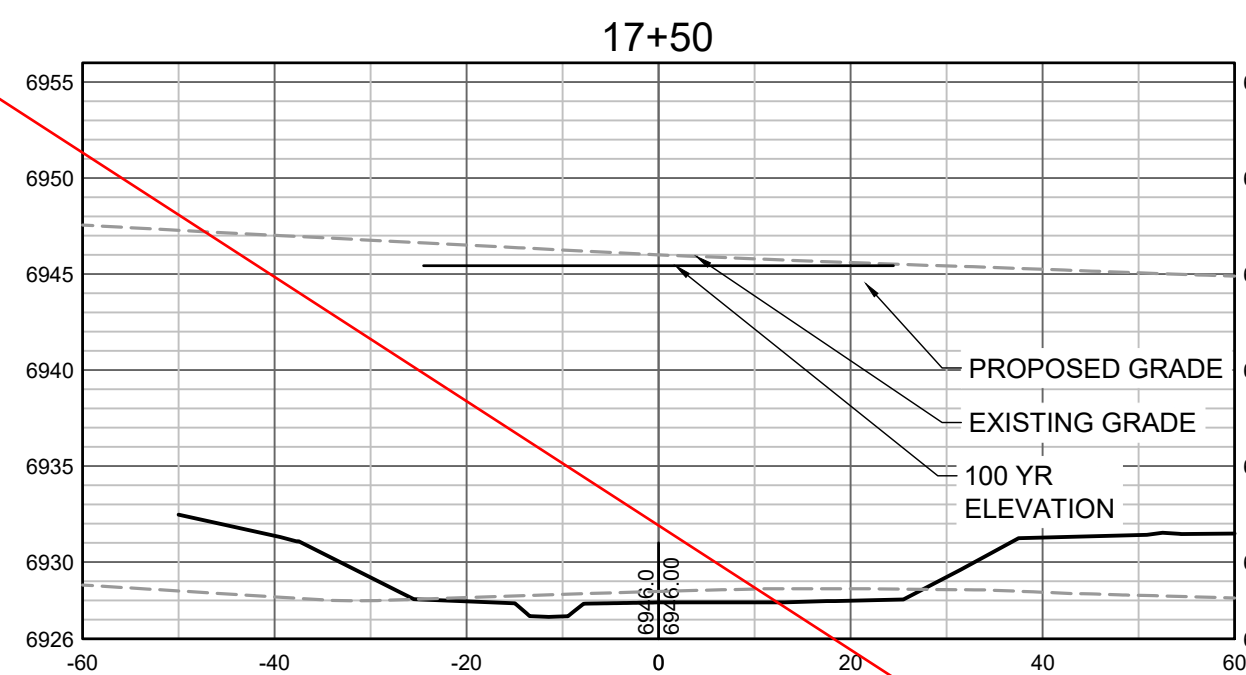
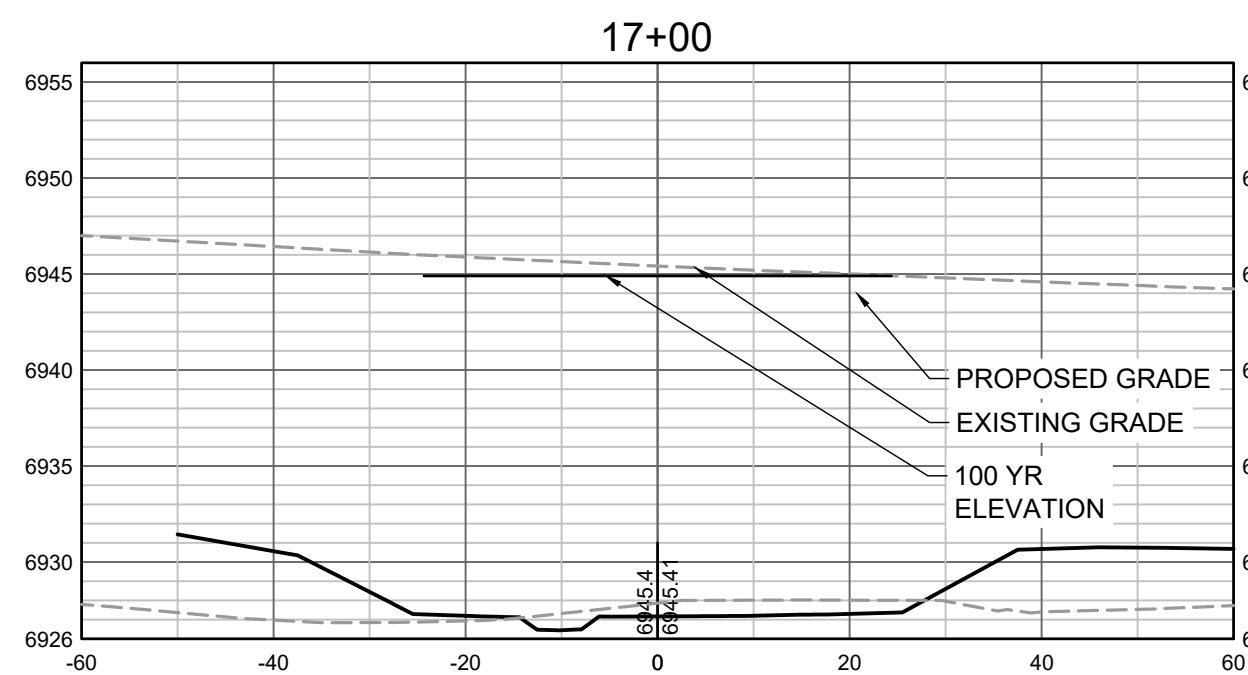
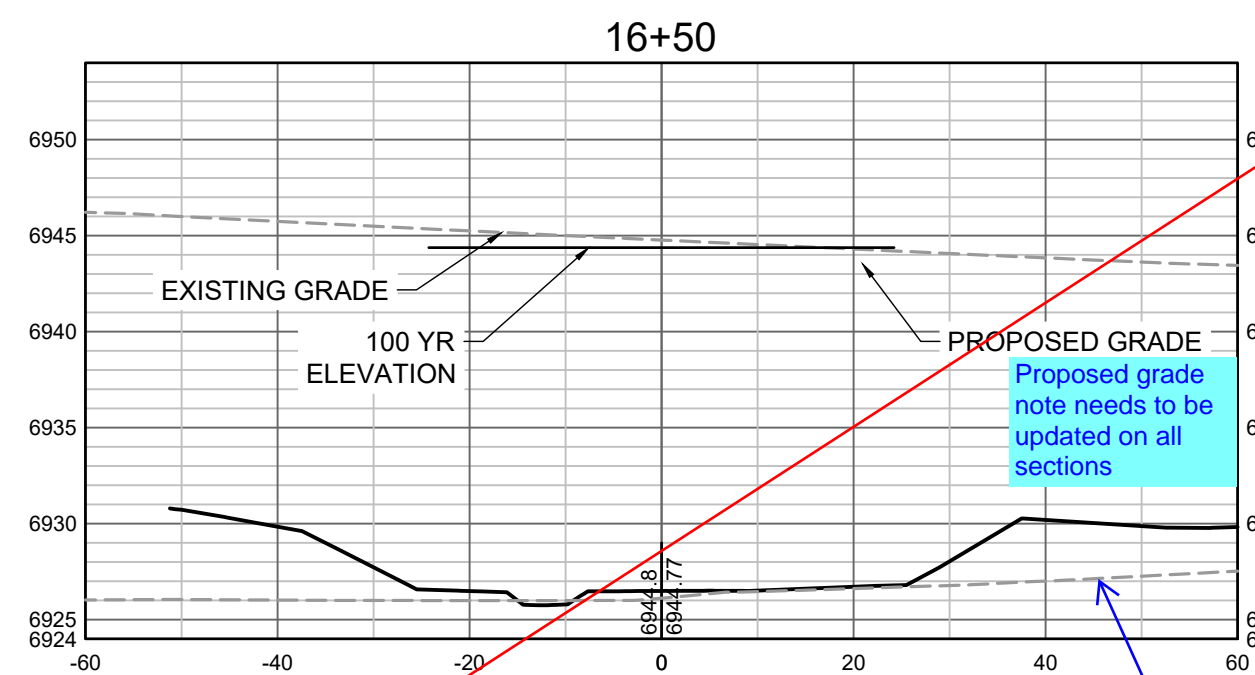
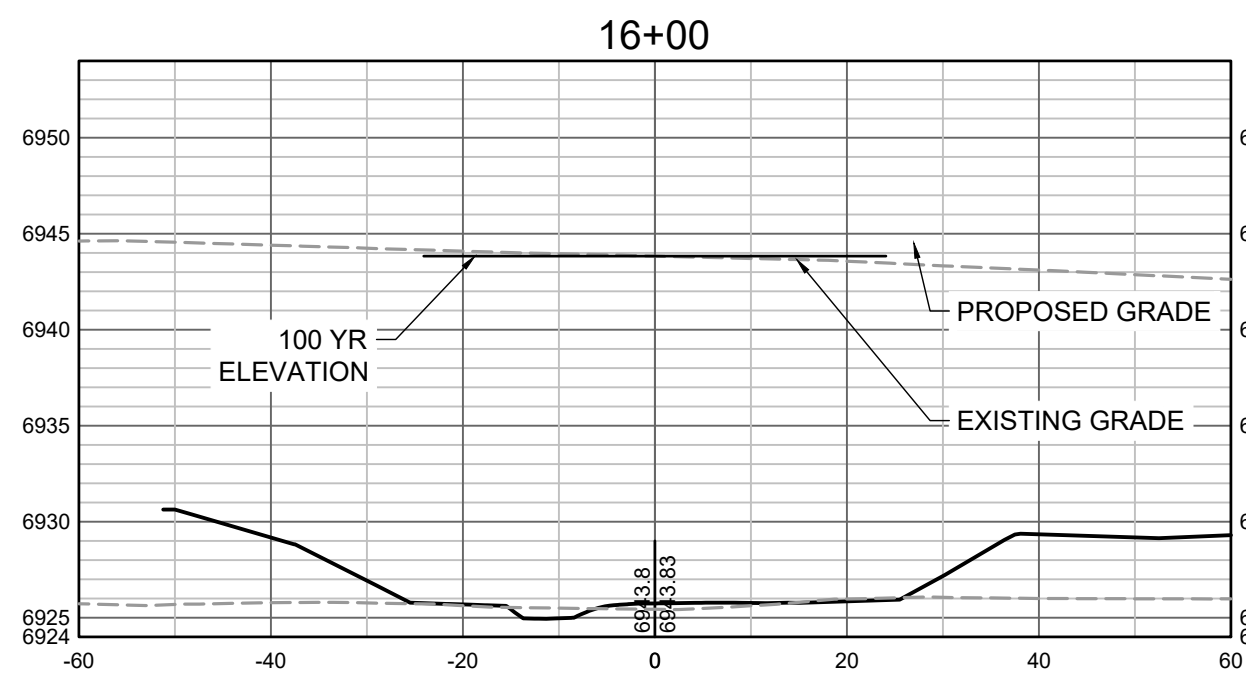
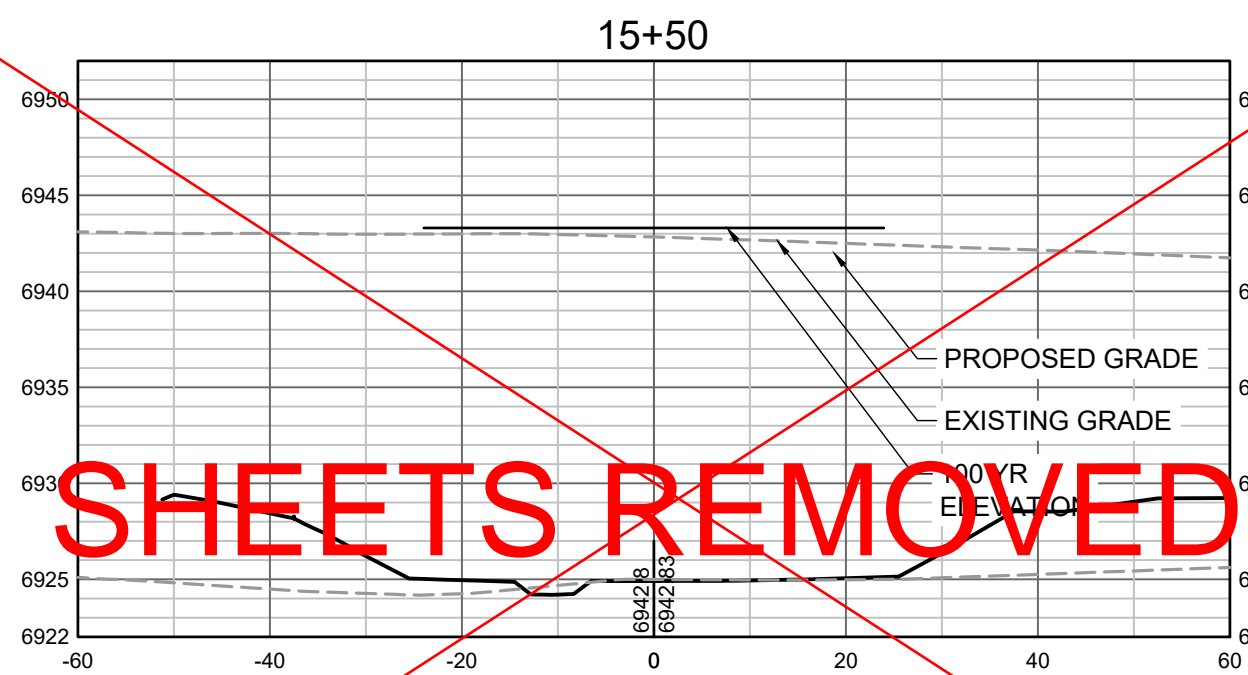
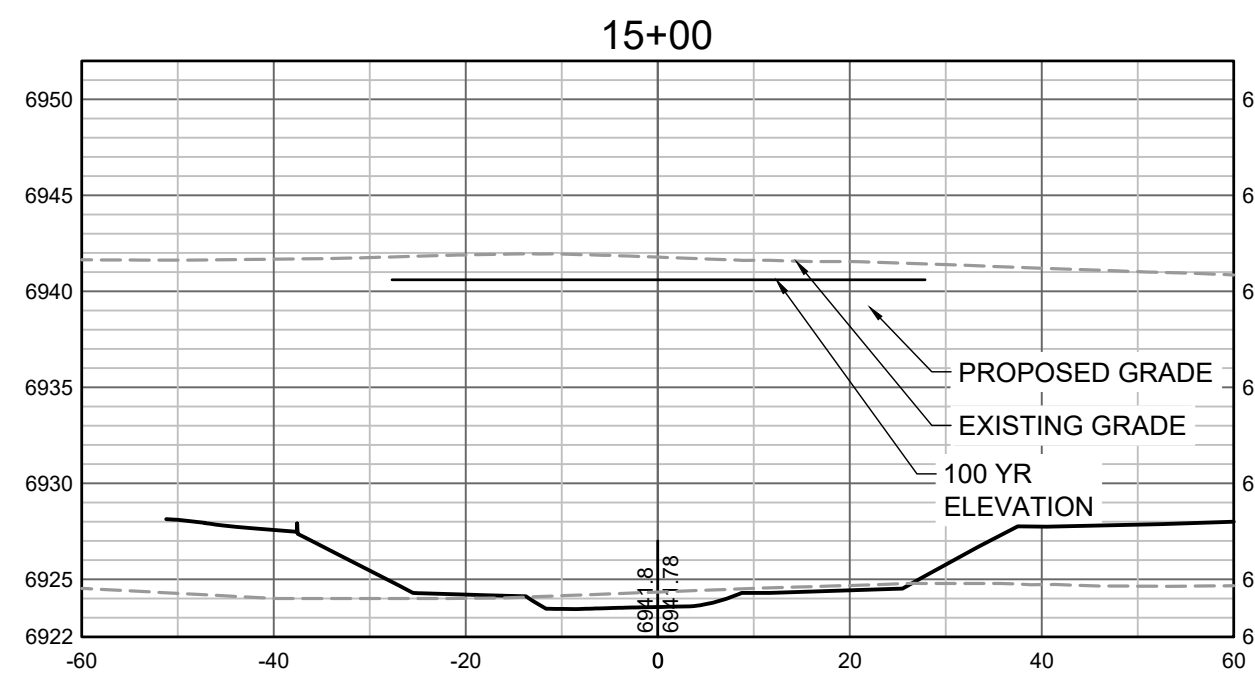
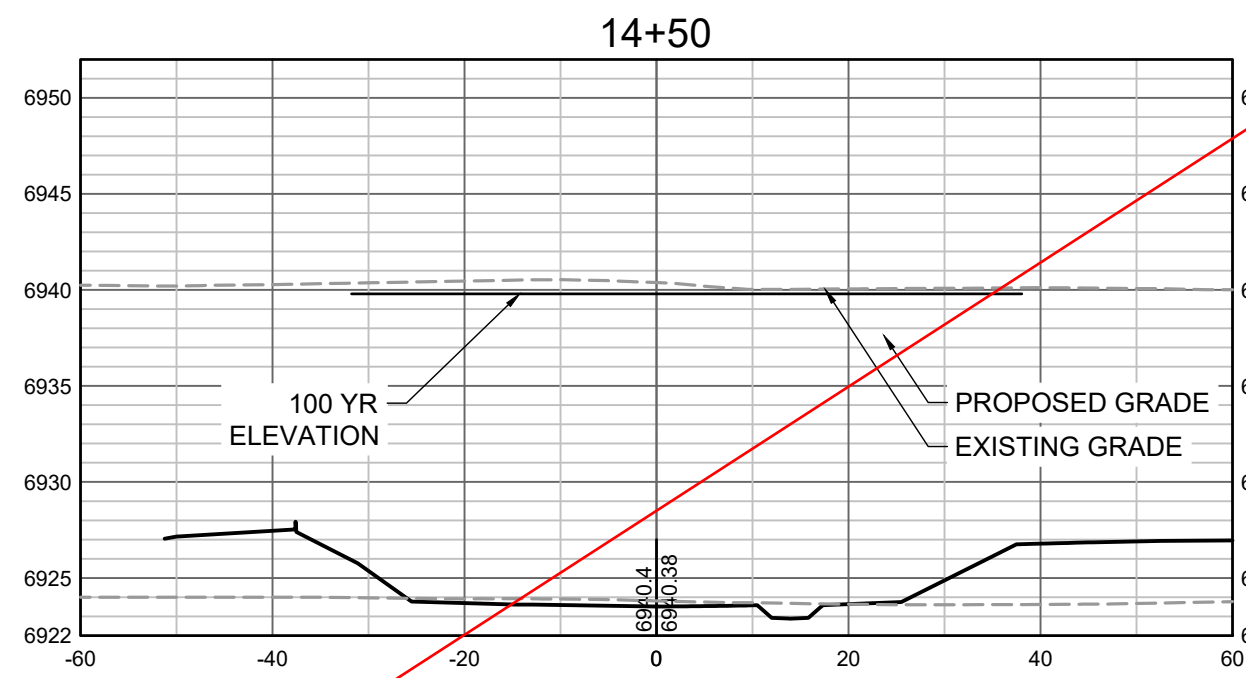
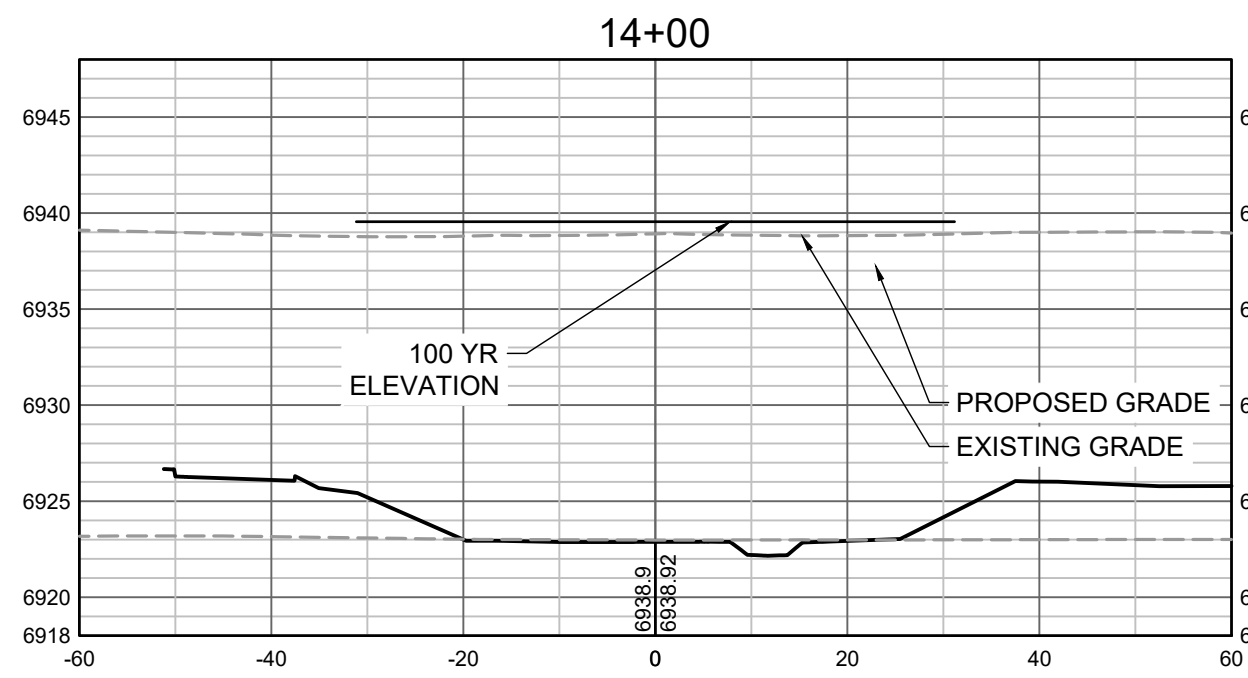
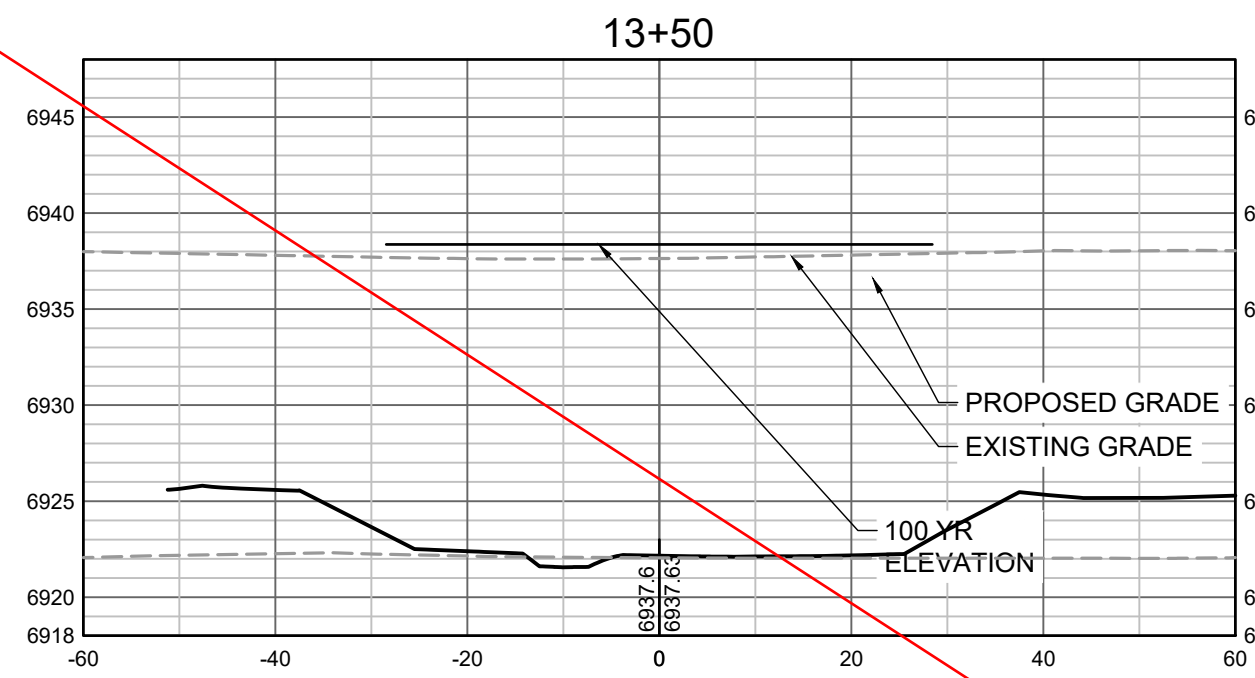
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CONSTRUCTION DOCUMENTS  
SEEDING NOTES

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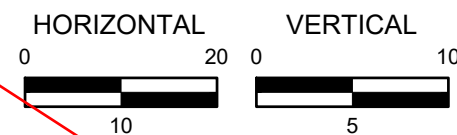


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Proposed grade  
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PROPOSED GRADES TO TIE INTO GRANDVIEW RESERVE FILING 1.  
REFER TO THE GRANDVIEW RESERVE FILING 1 PLAN SET FOR  
CONTINUATION OF GRADING THAT IS BEING TIED INTO OUTSIDE  
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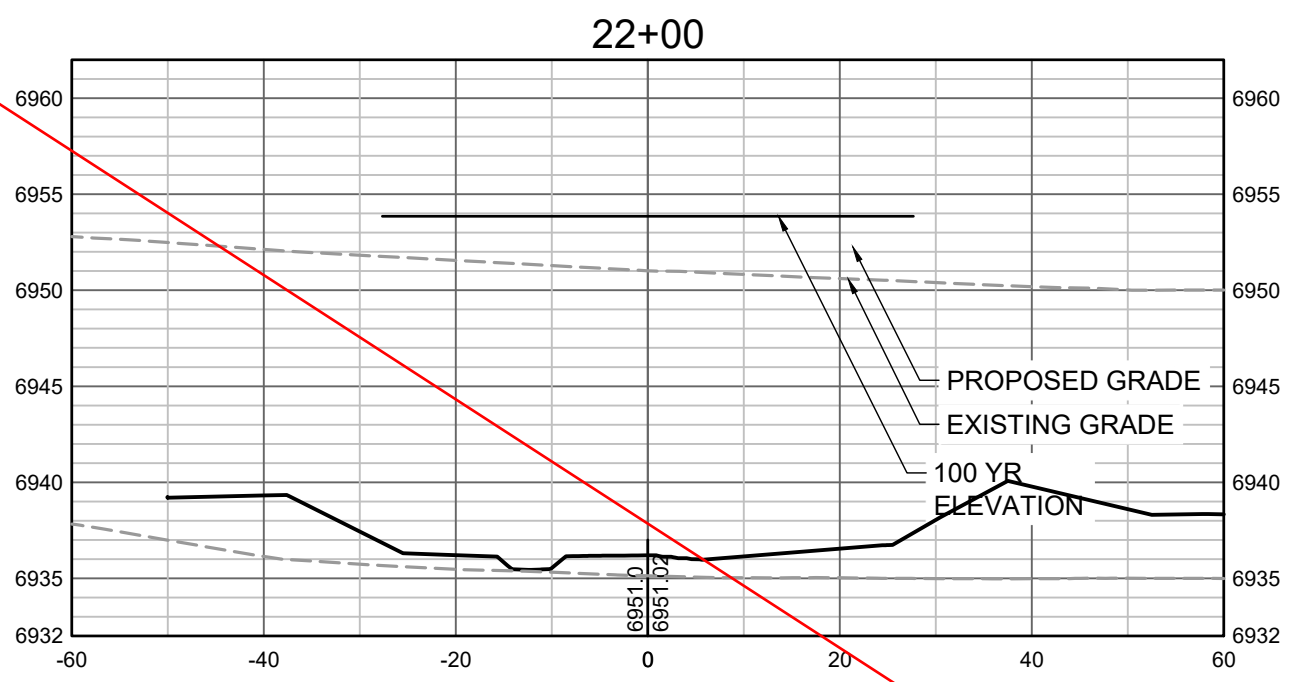
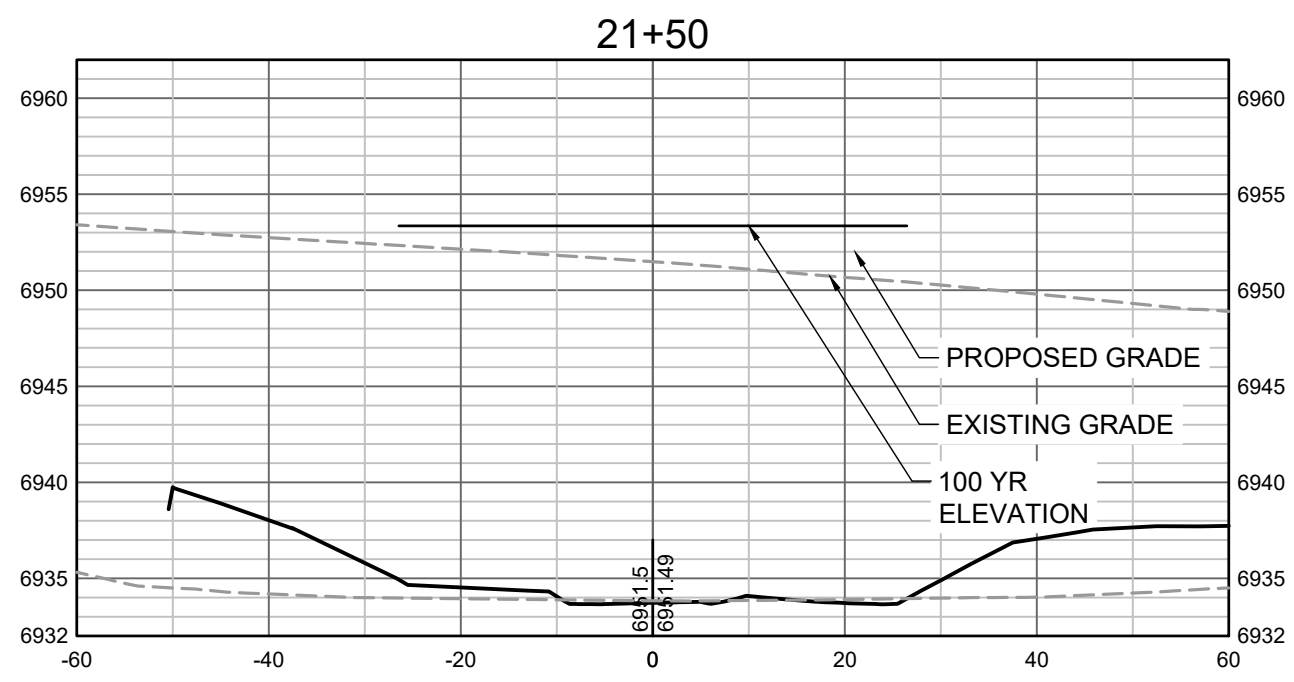
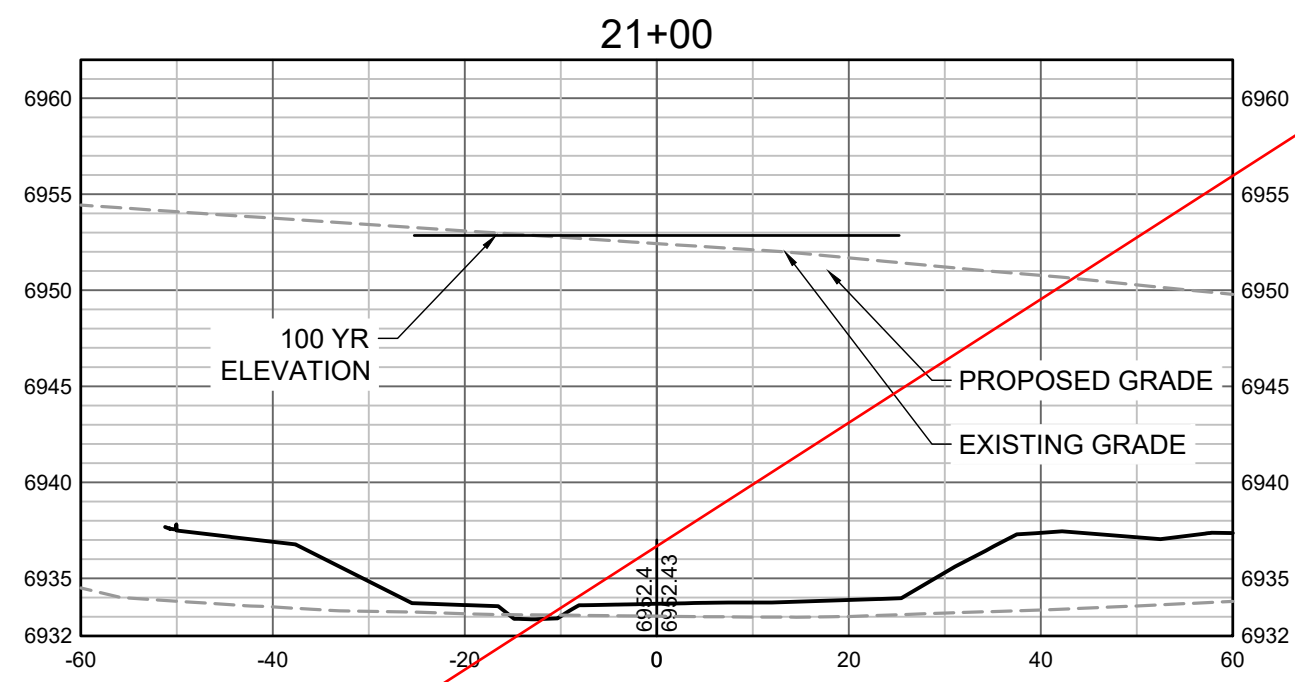
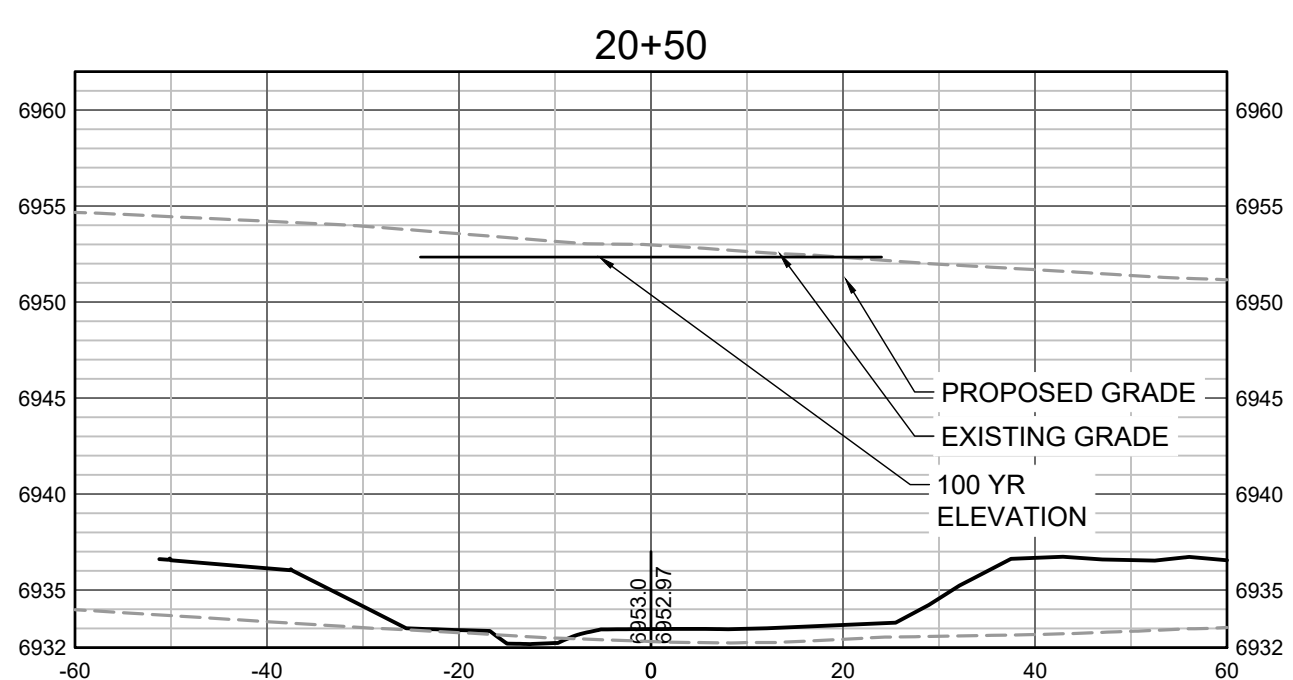
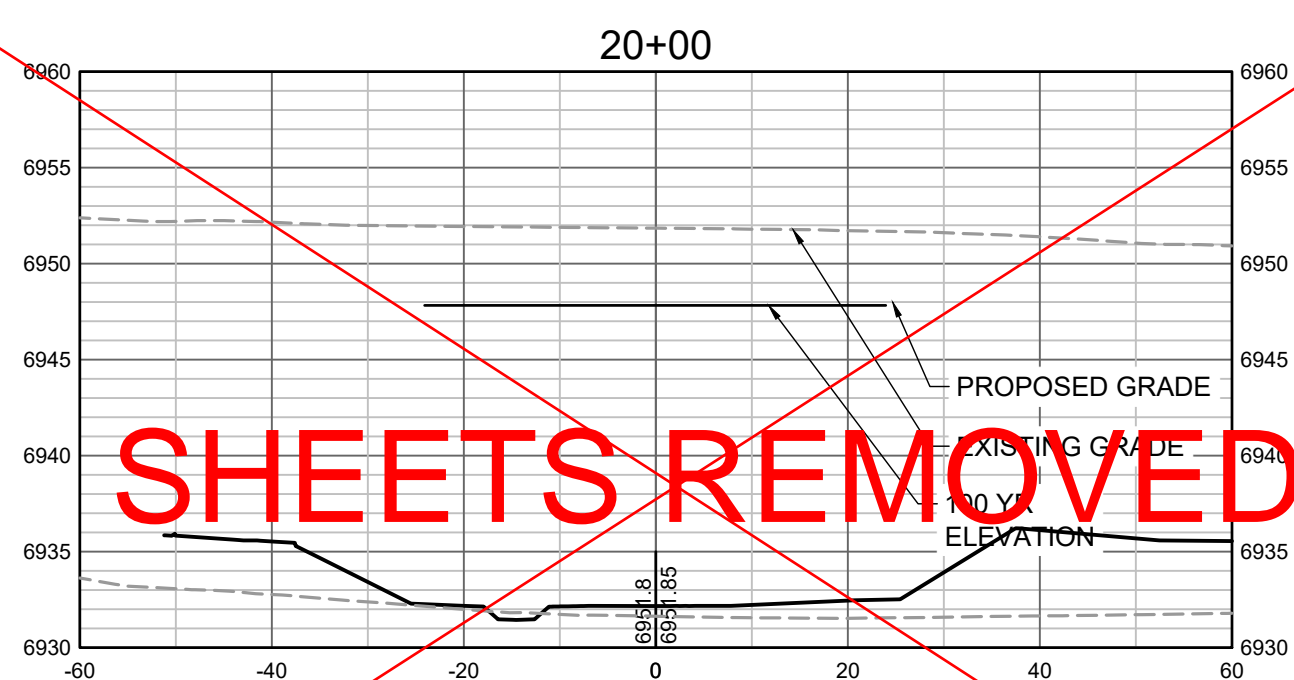
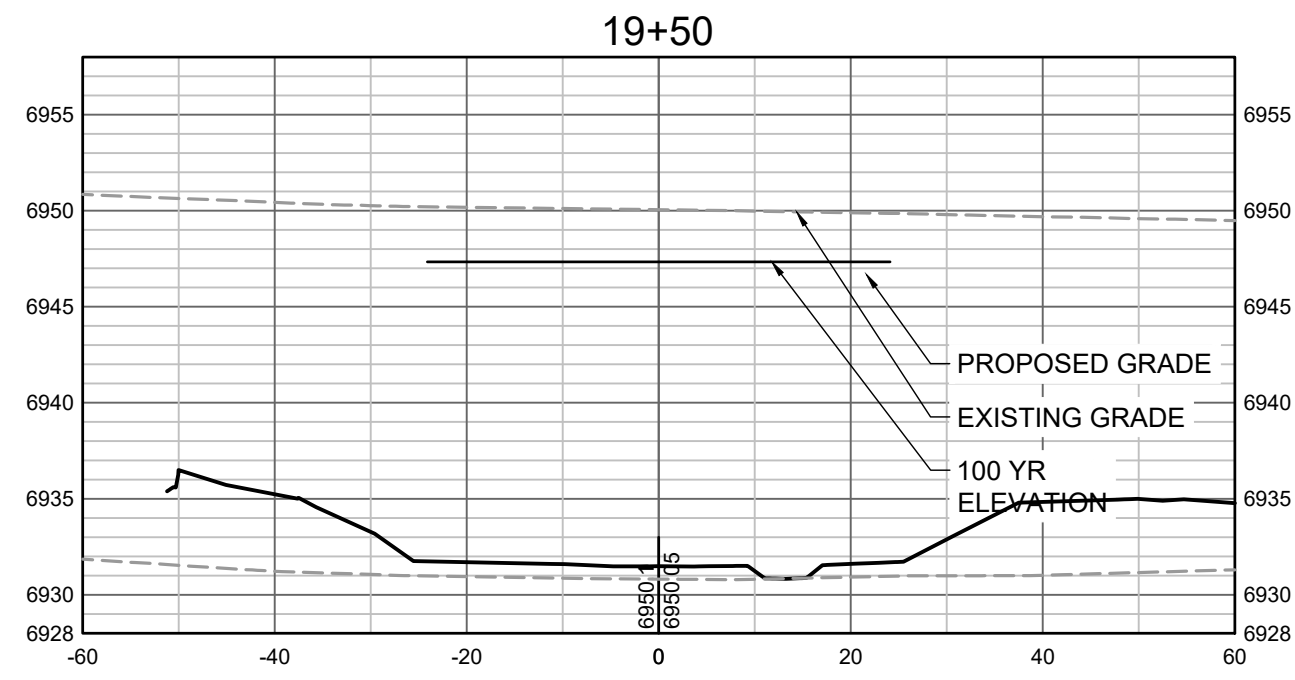
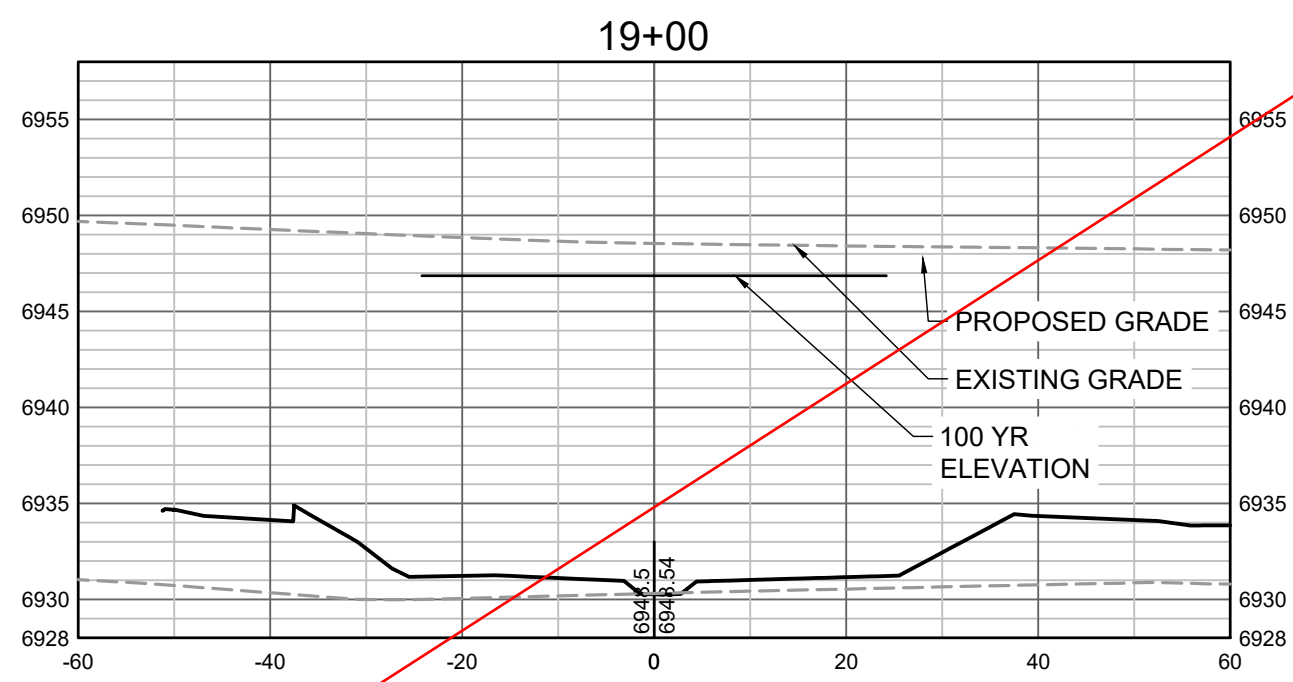
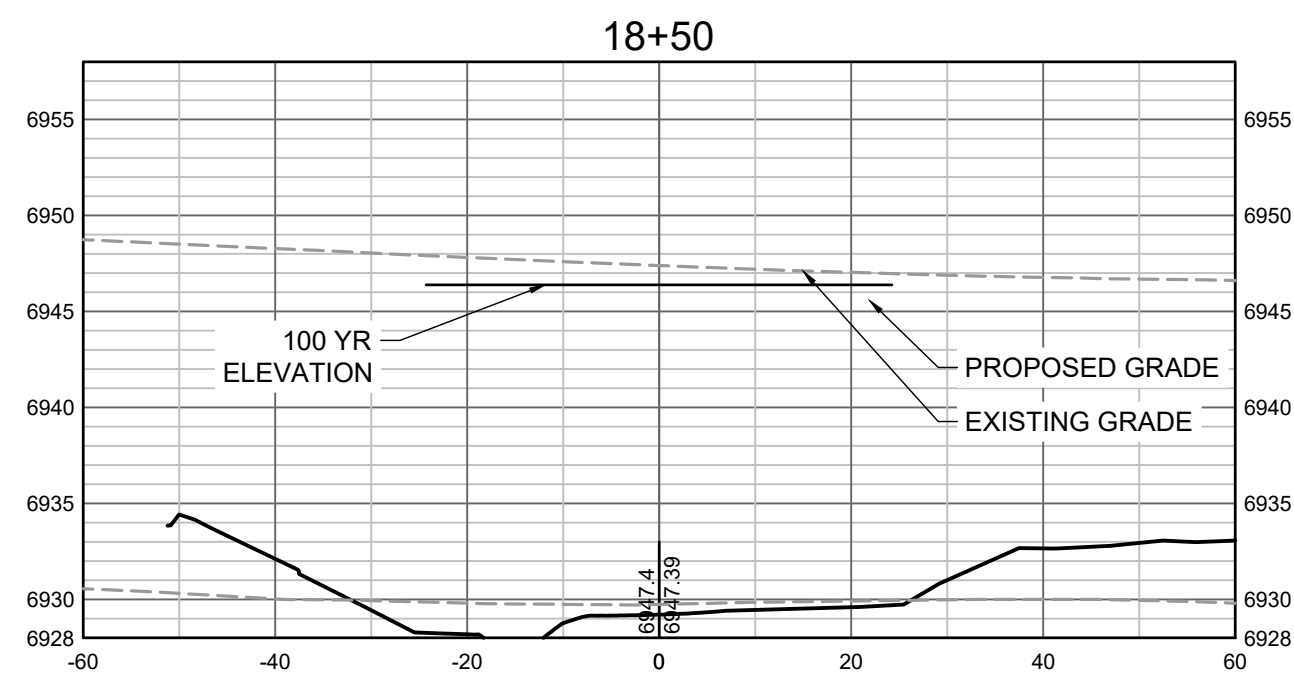
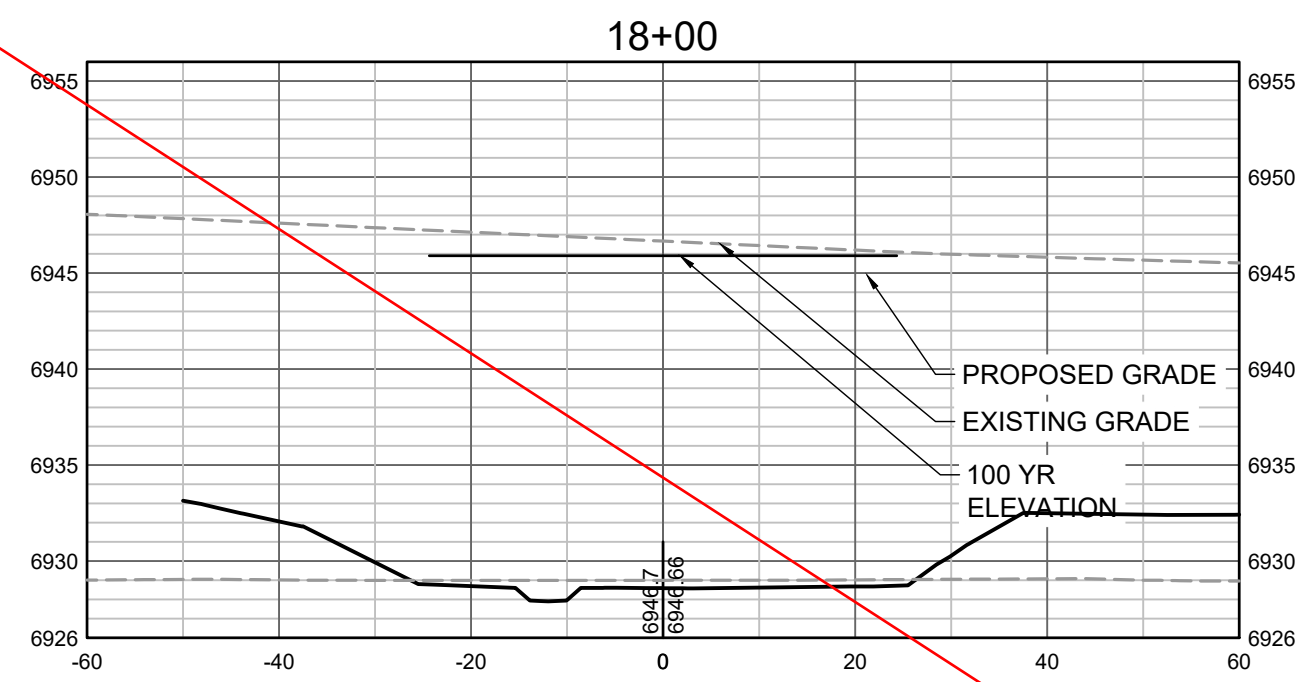
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HR GREEN - DENVER  
5613 DTC PARKWAY SUITE 950  
DENVER CO 80111  
PHONE: 720.602.4999  
FAX: 713.965.0044

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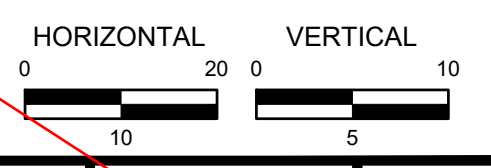
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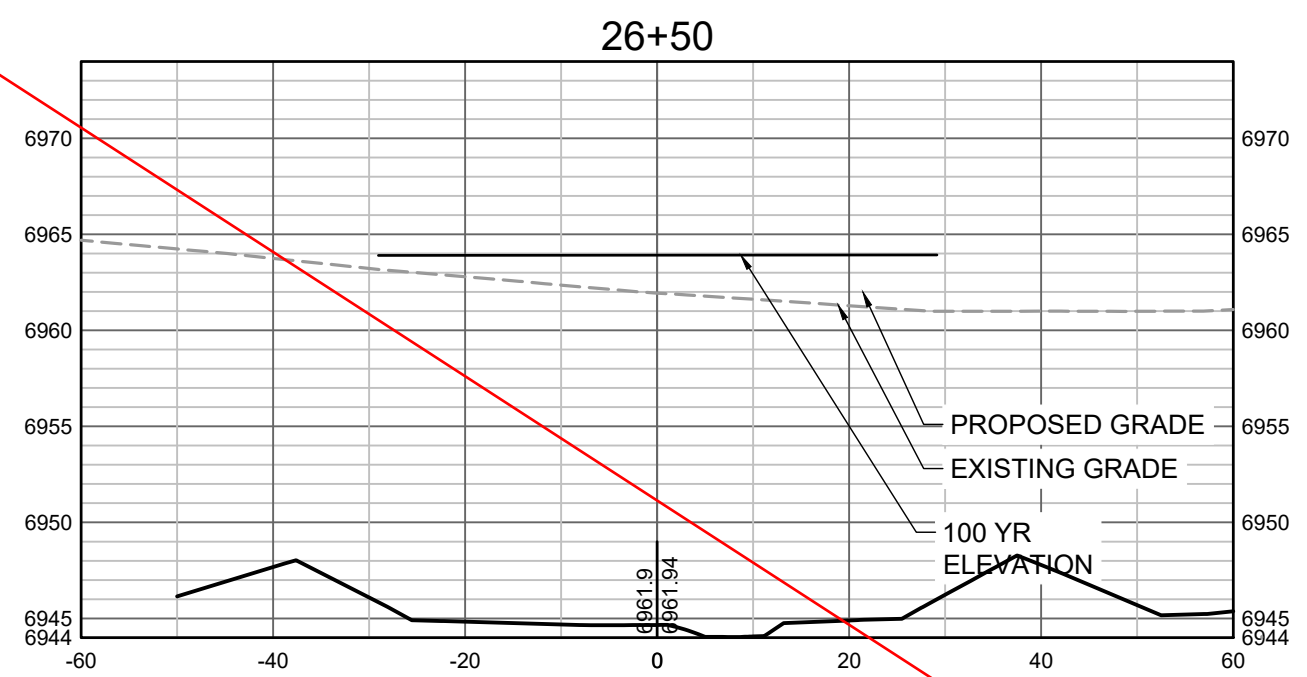
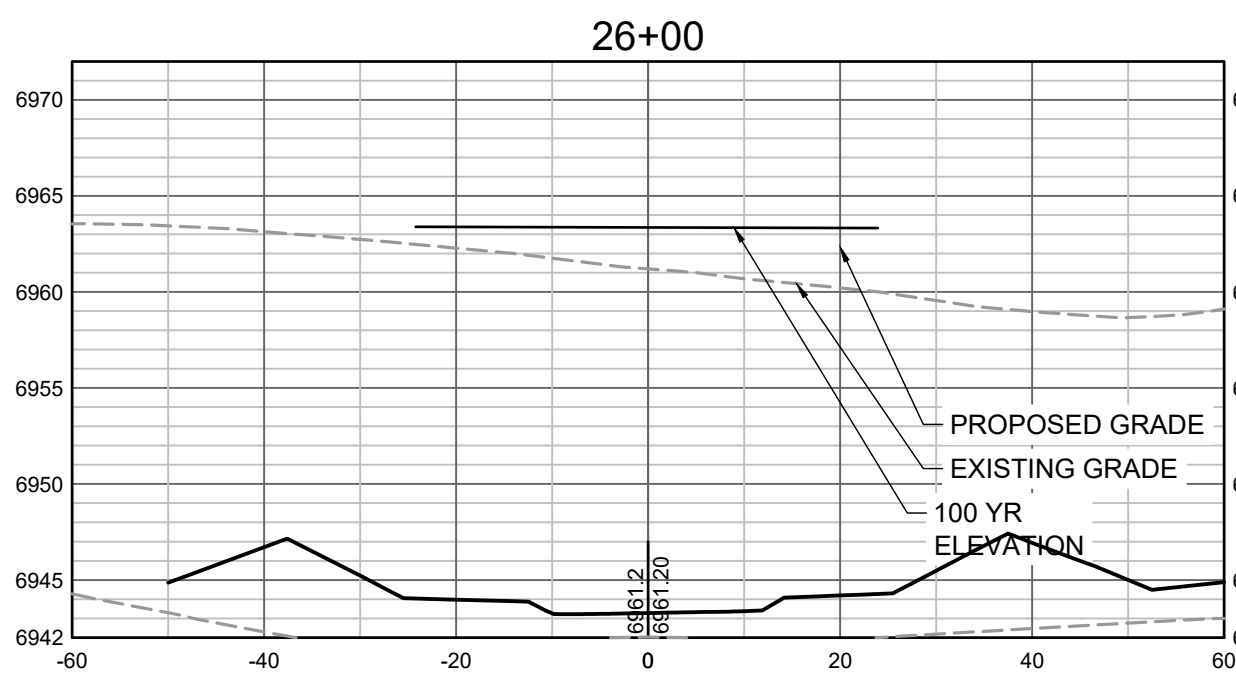
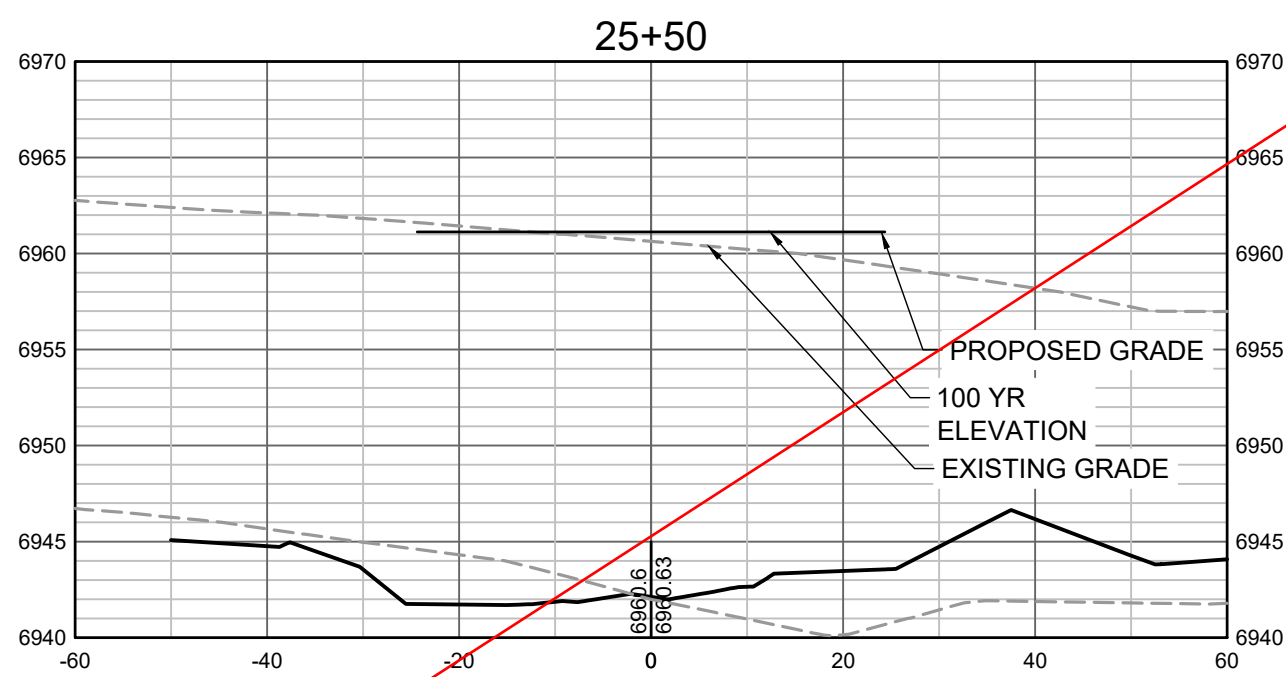
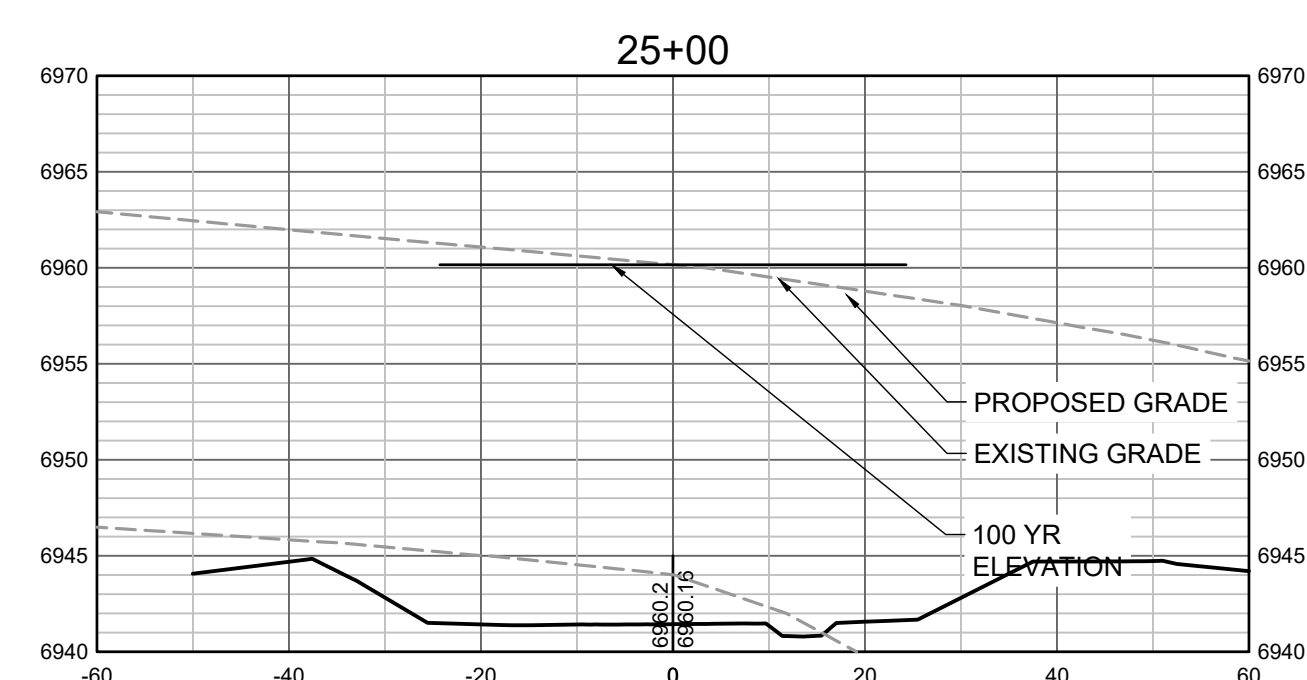
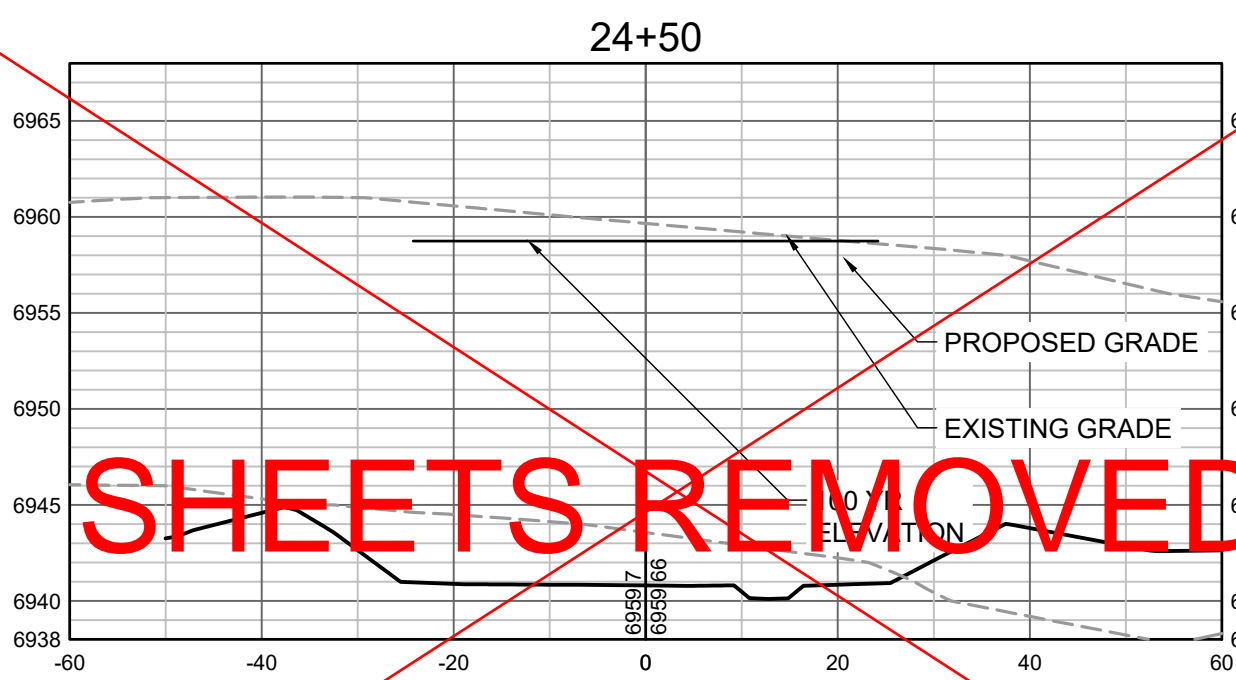
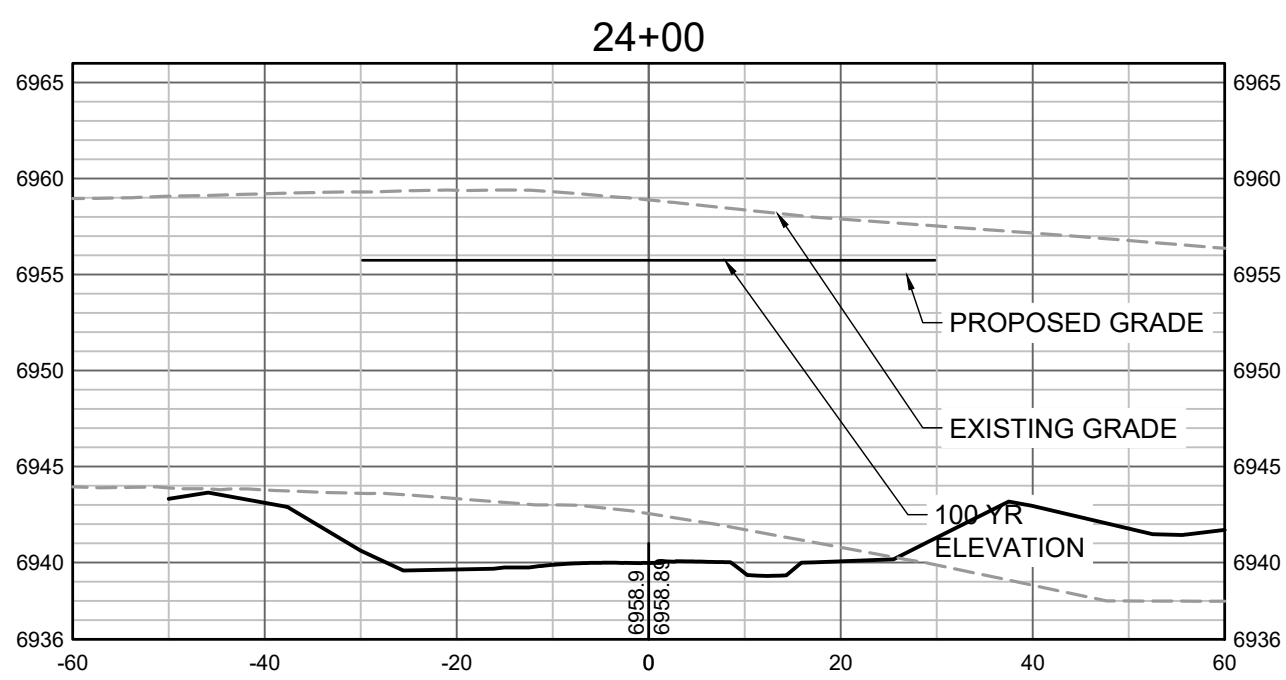
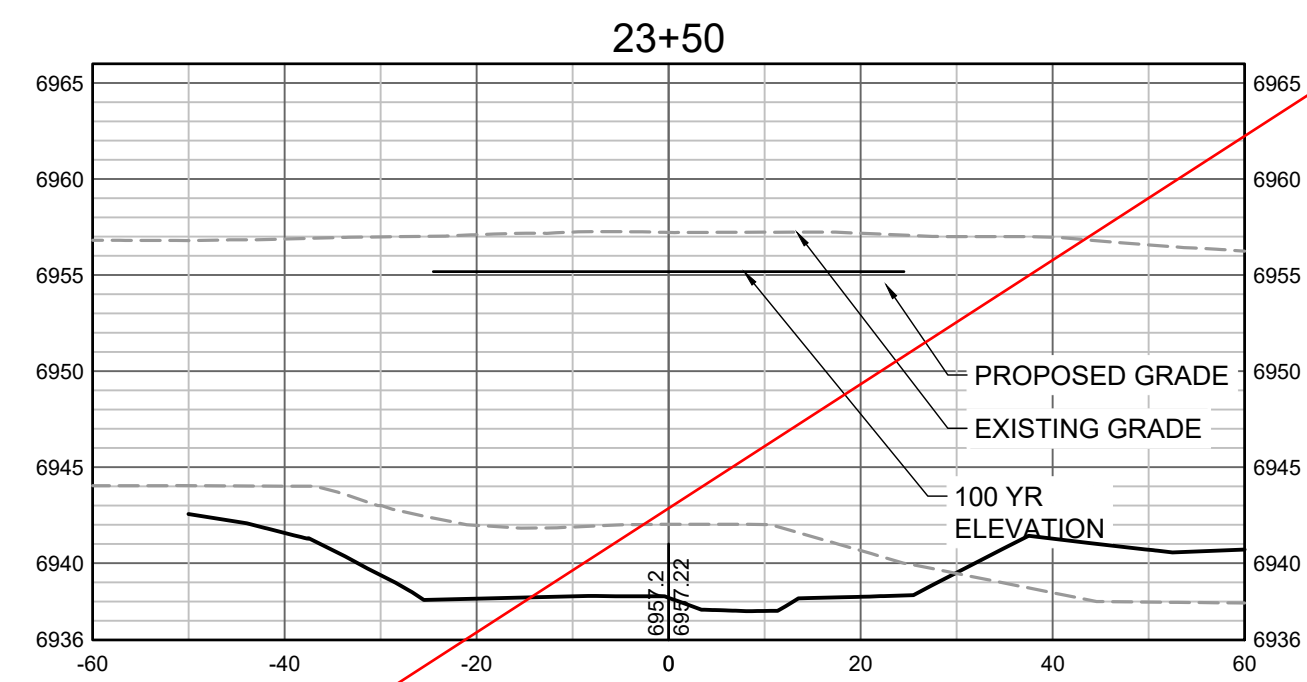
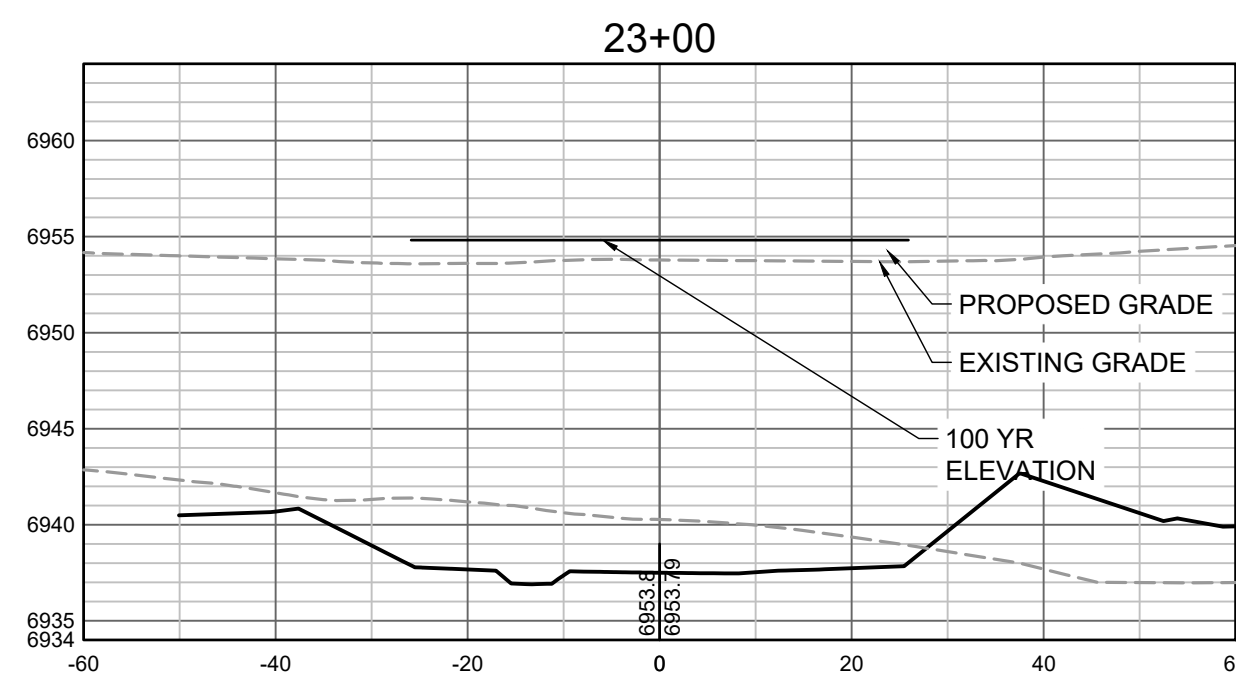
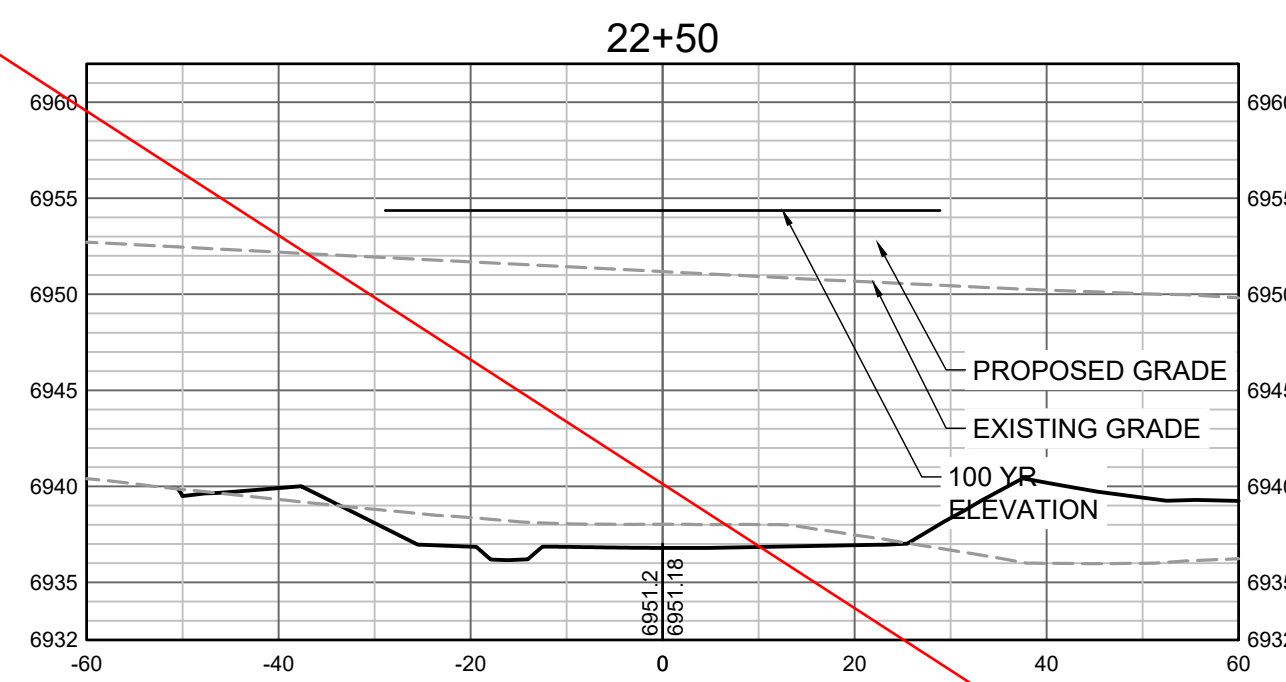
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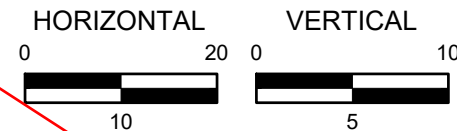
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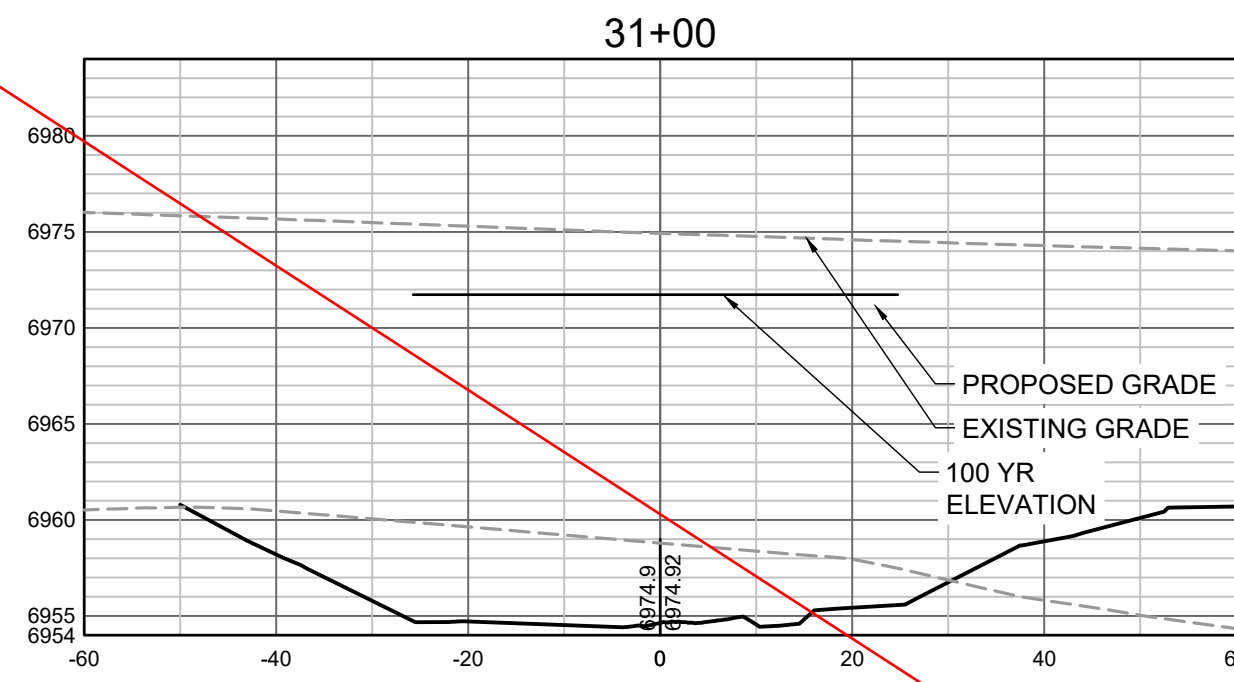
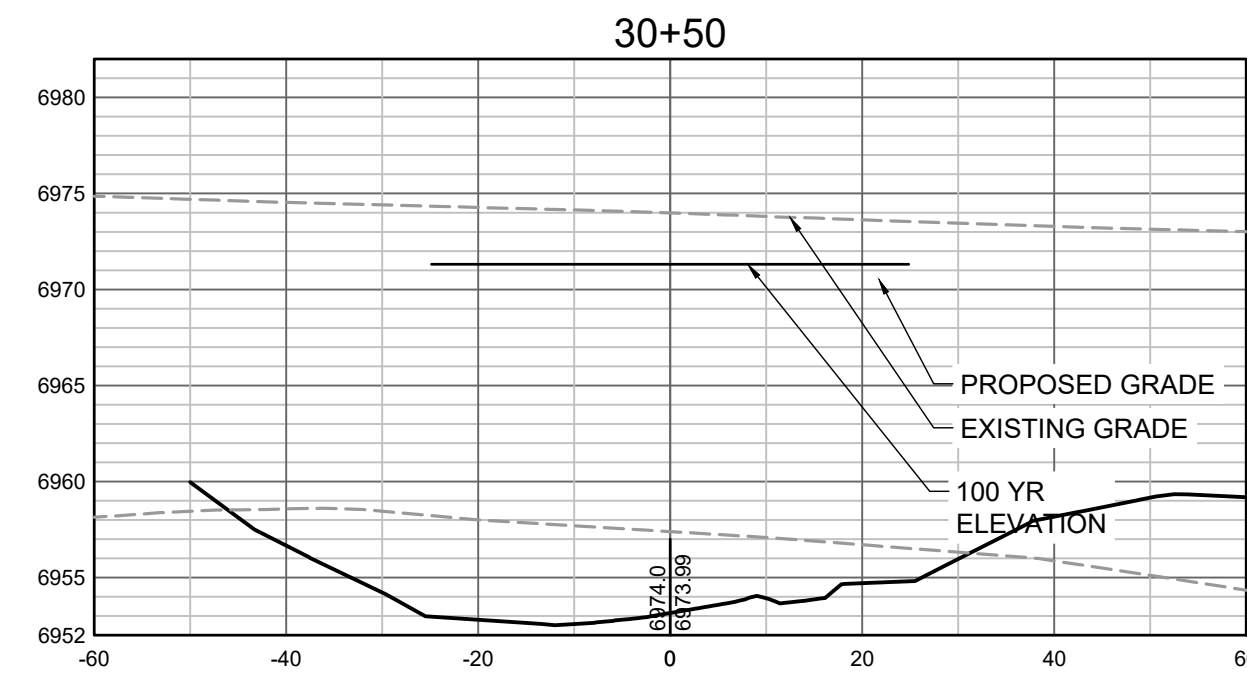
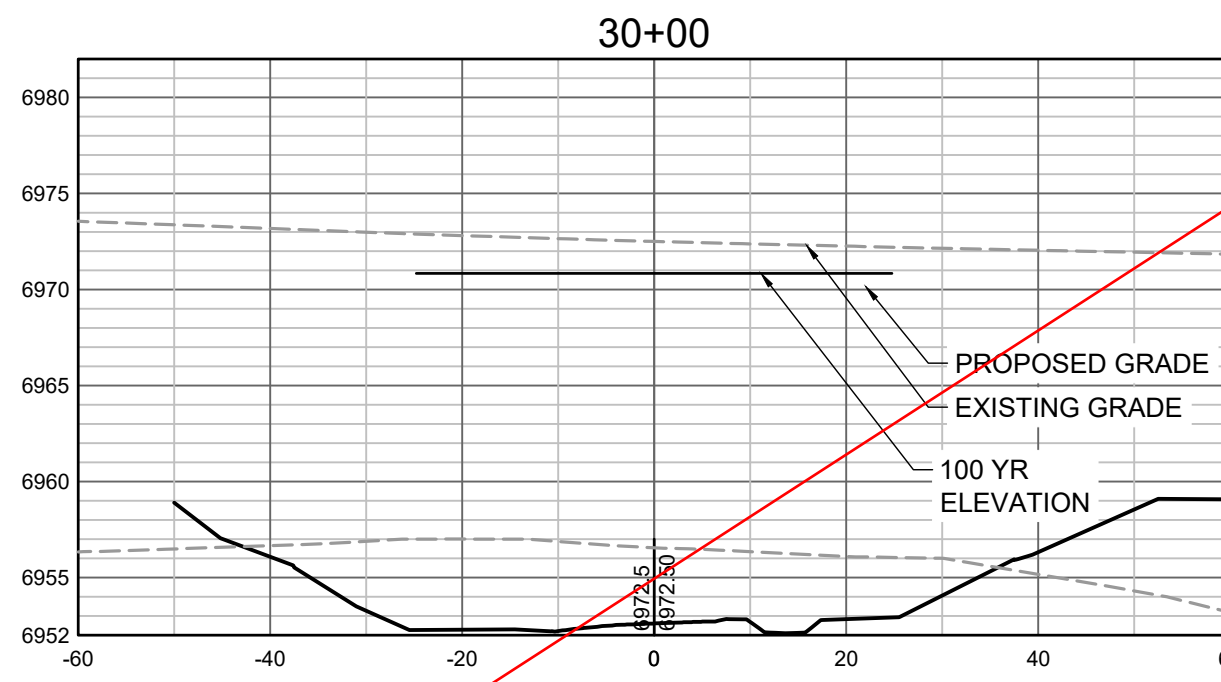
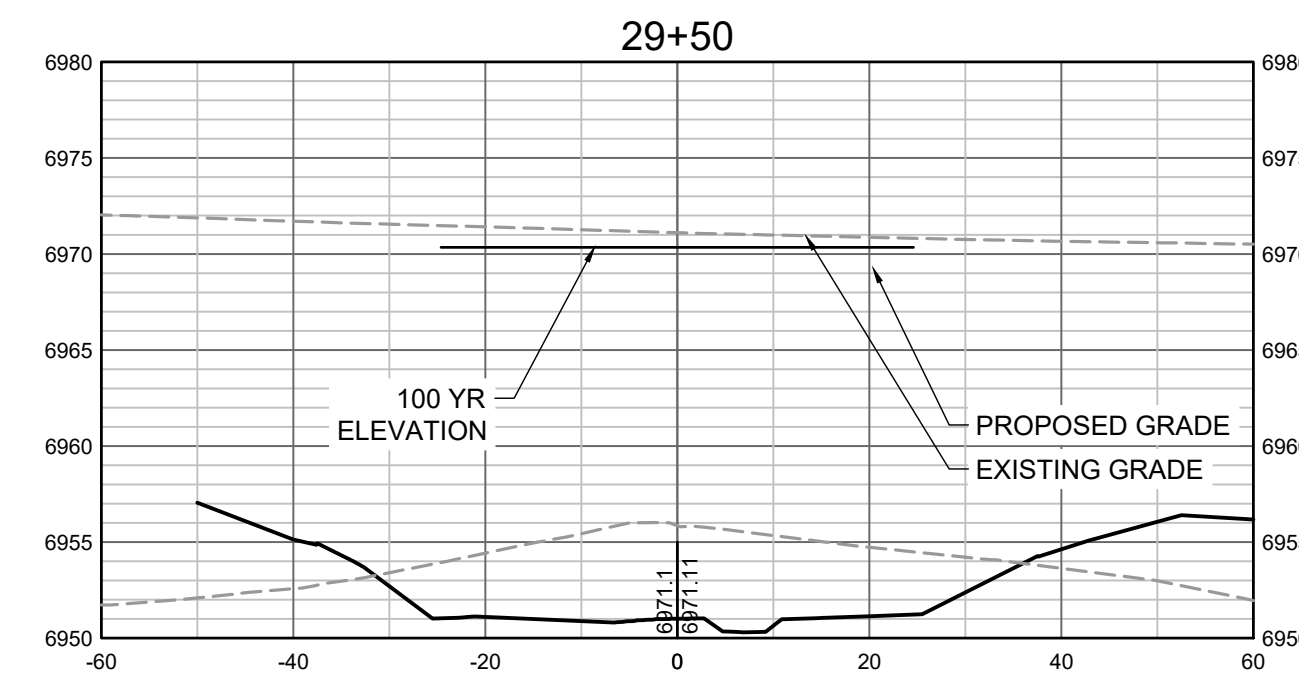
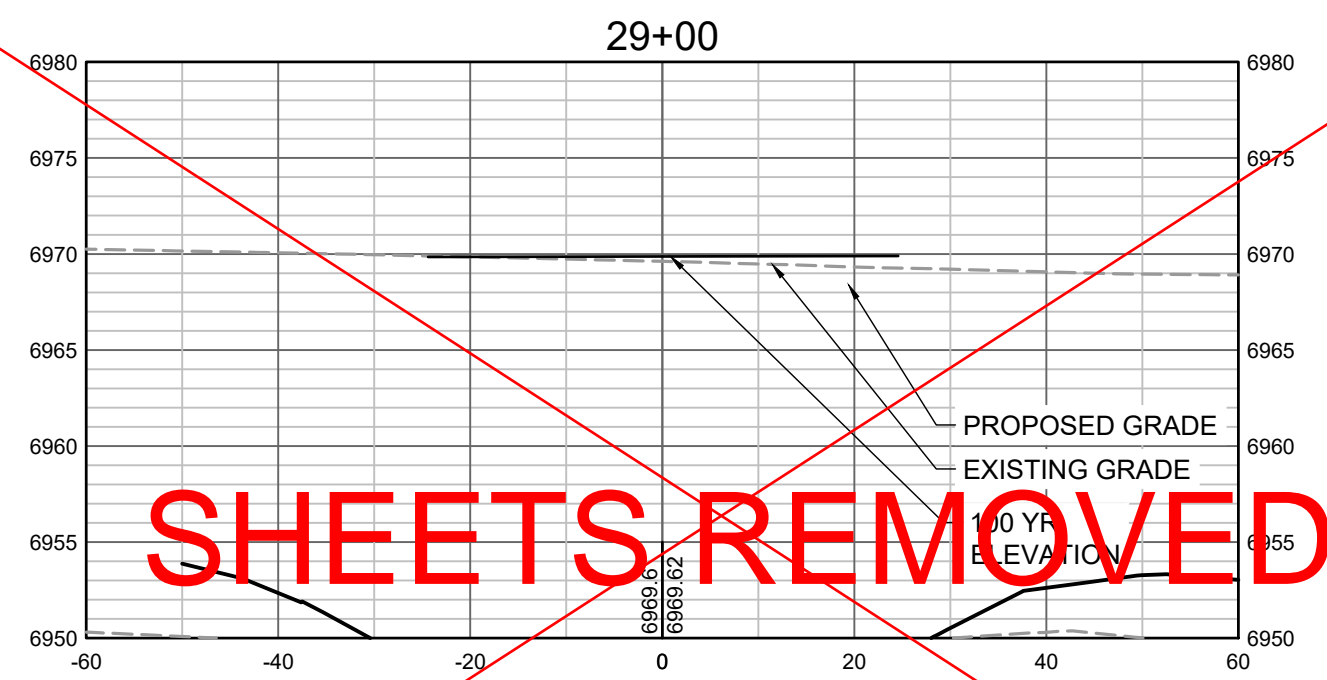
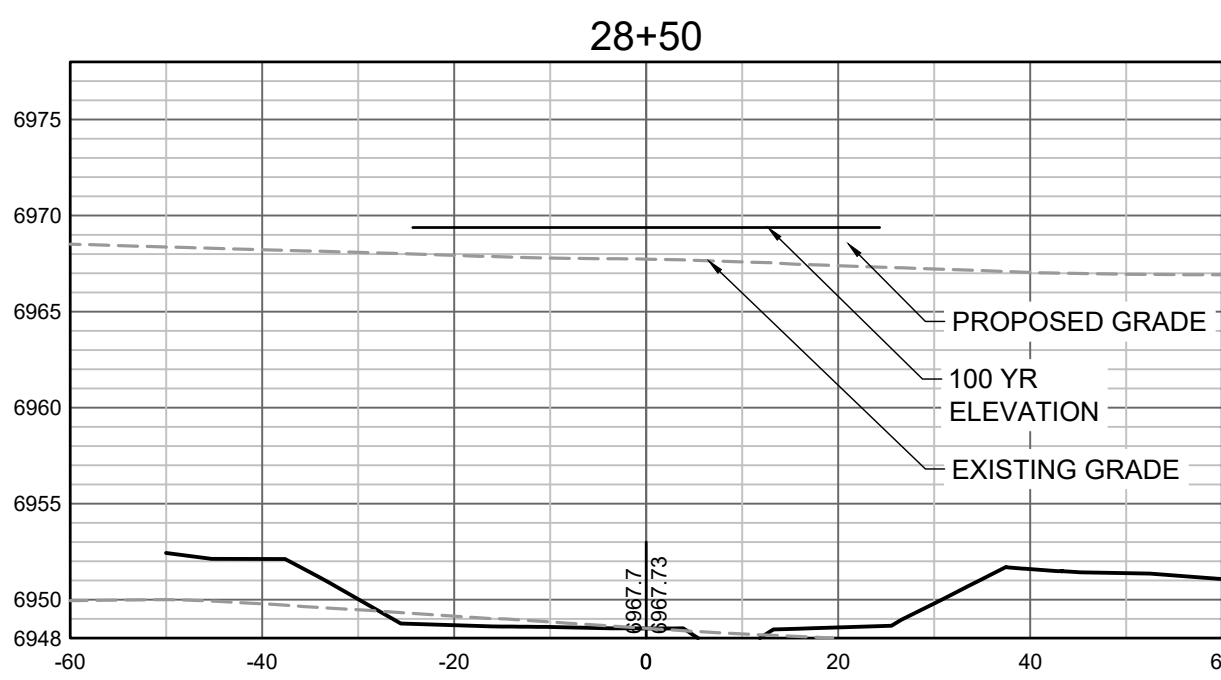
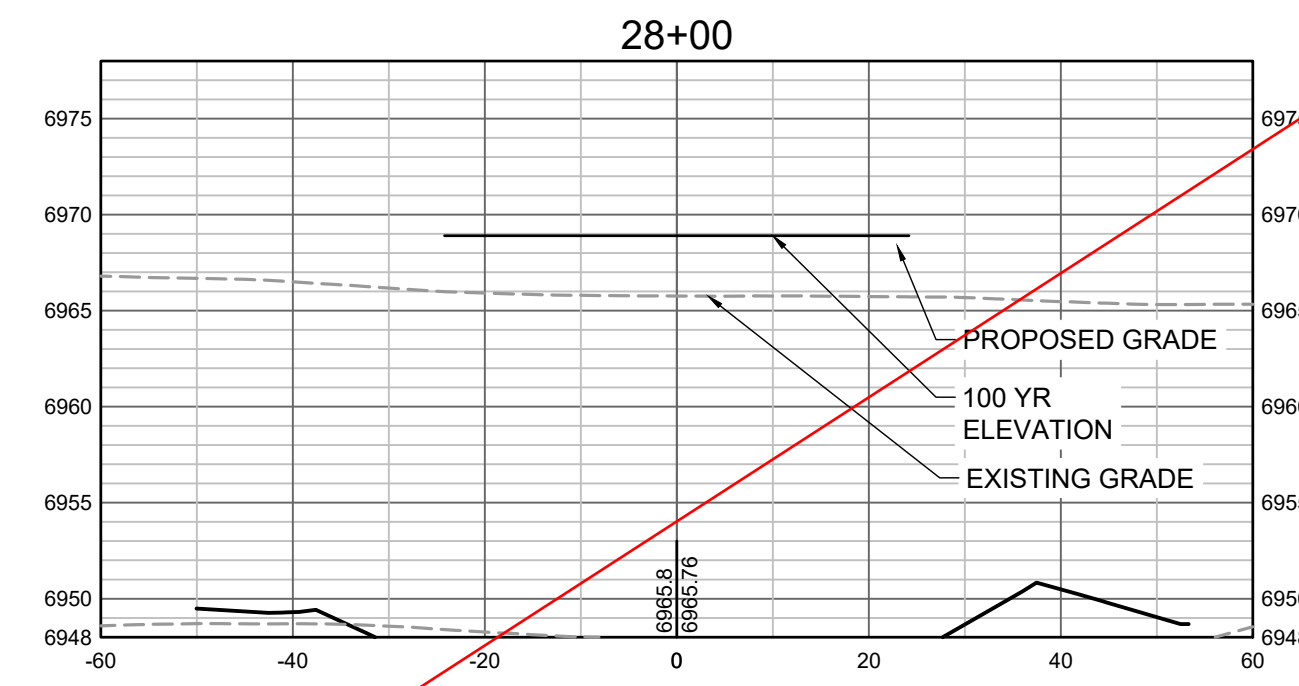
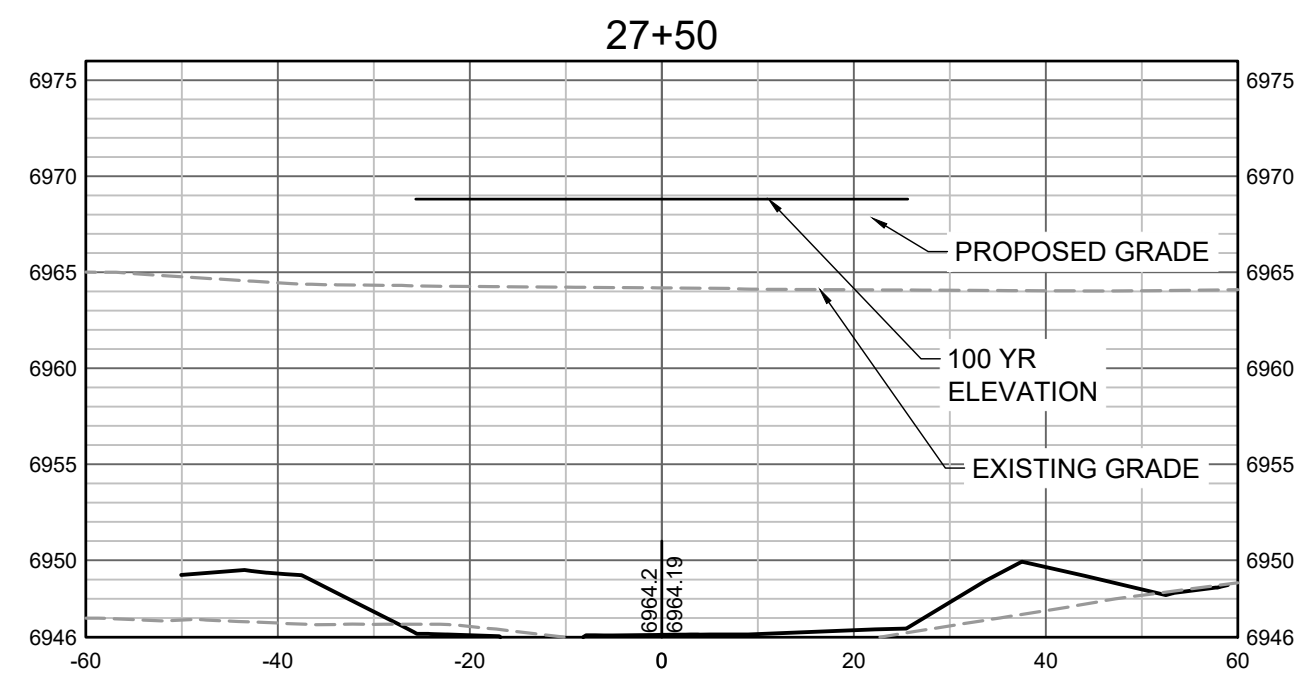
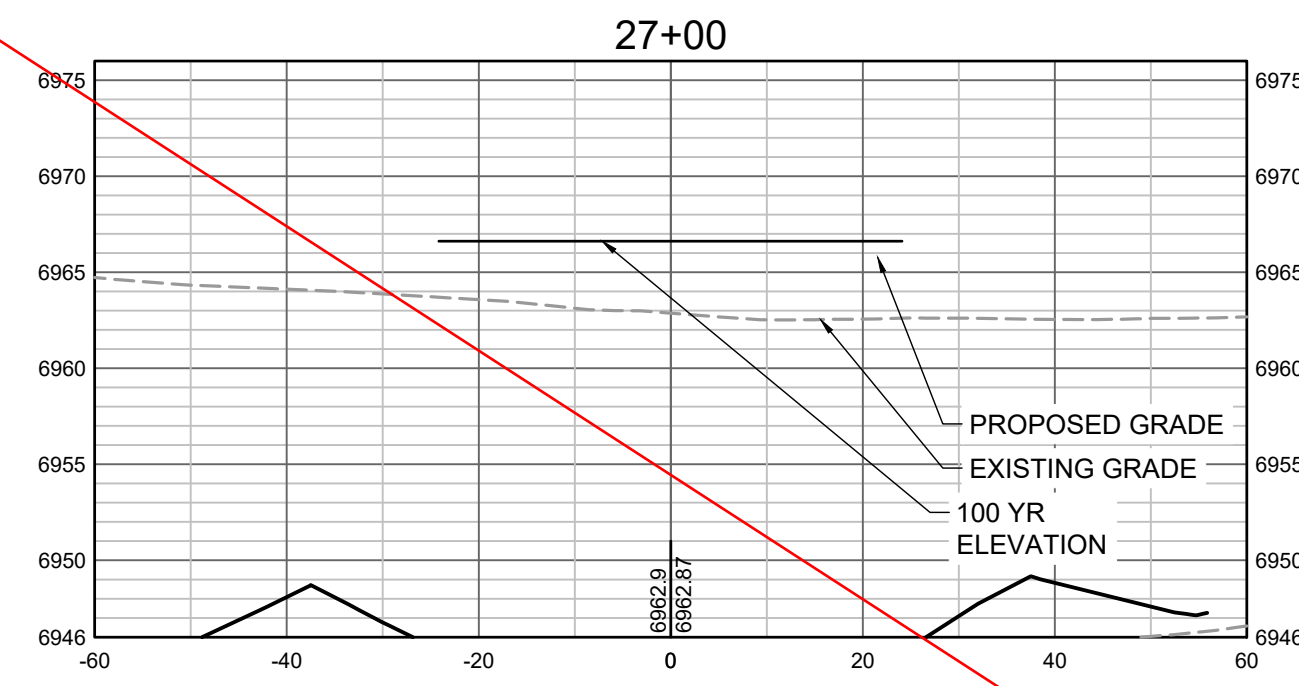
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TRIBUTARY 2 CROSS SECTIONS

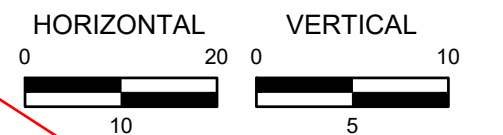
SHEET  
CS6

42





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.



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CAD DATE: 1/26/2024  
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BAR IS ONE INCH ON  
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0 1"  
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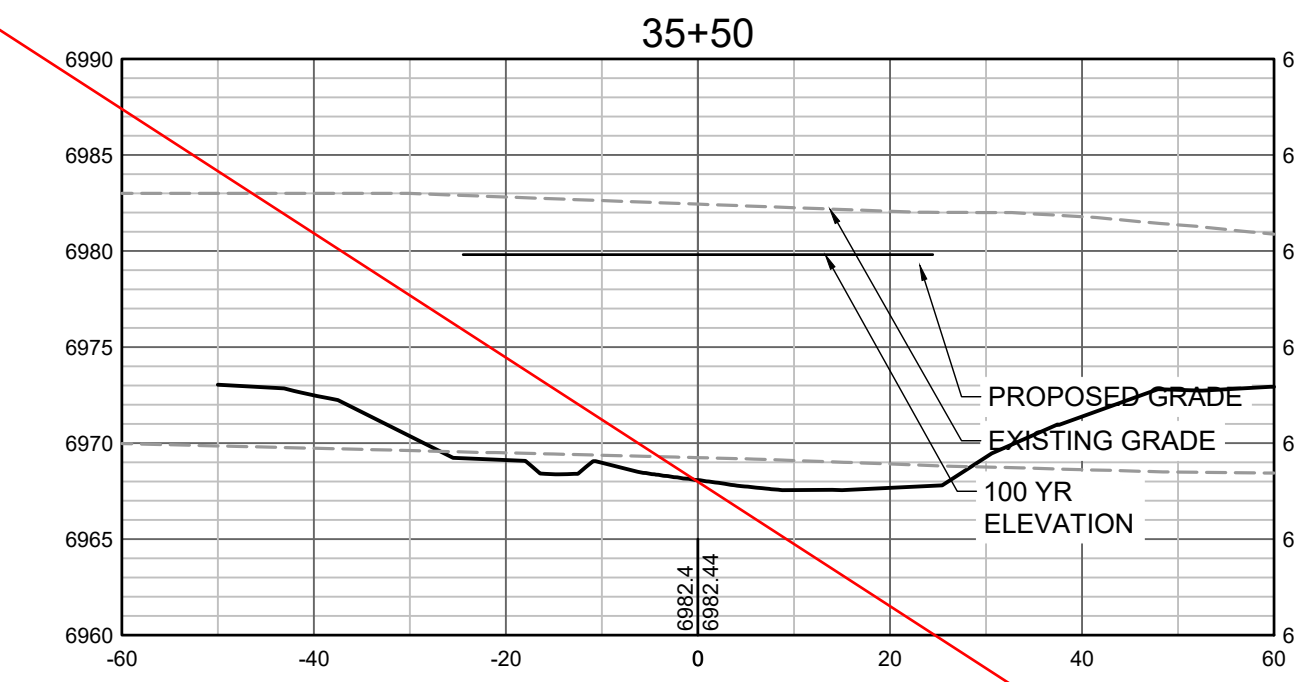
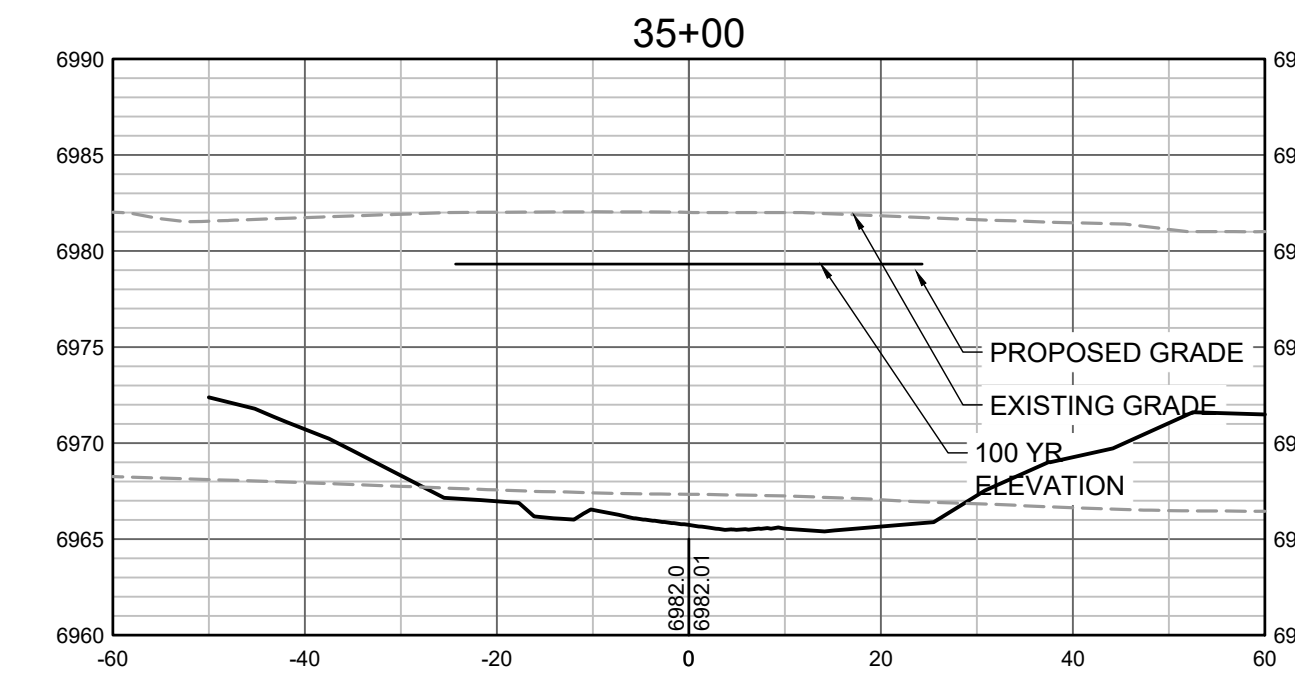
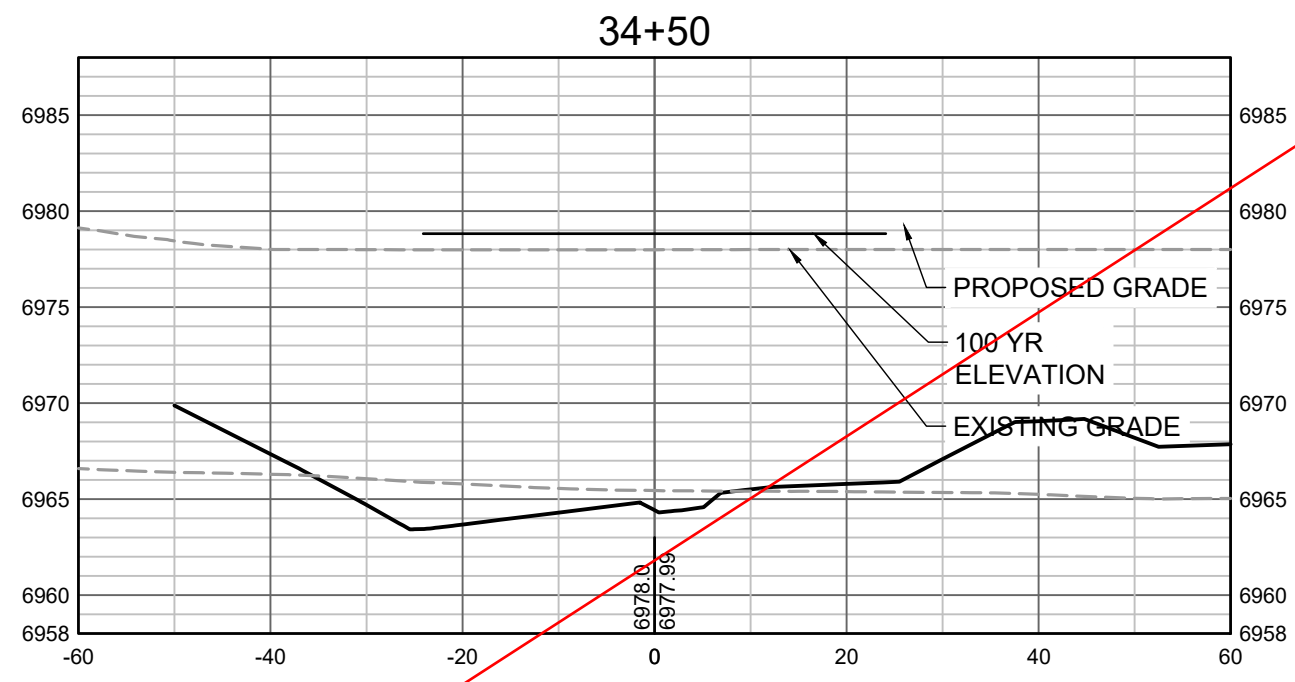
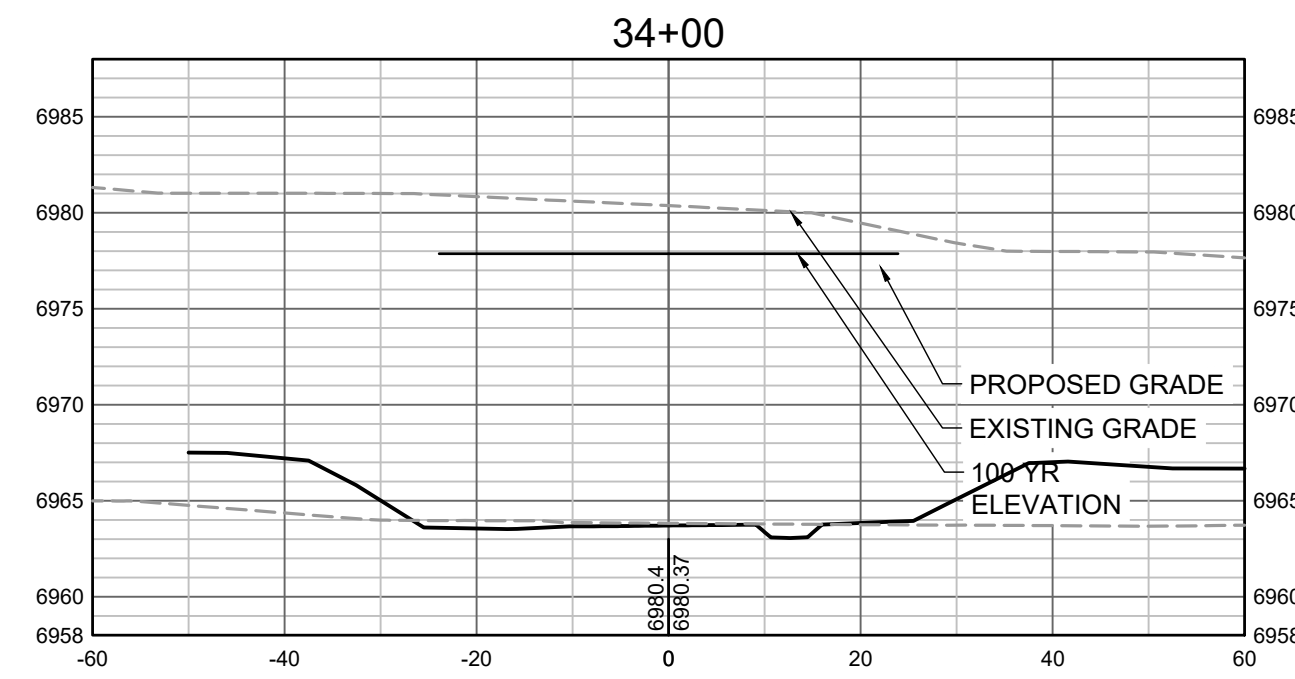
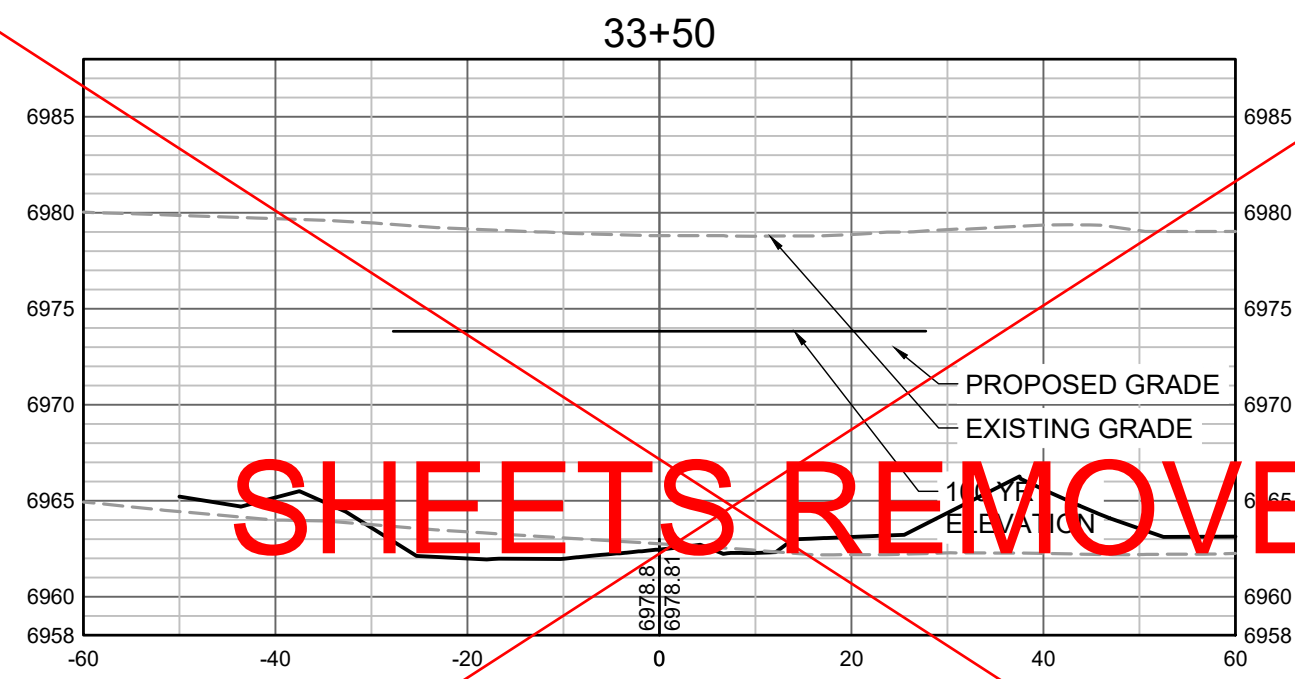
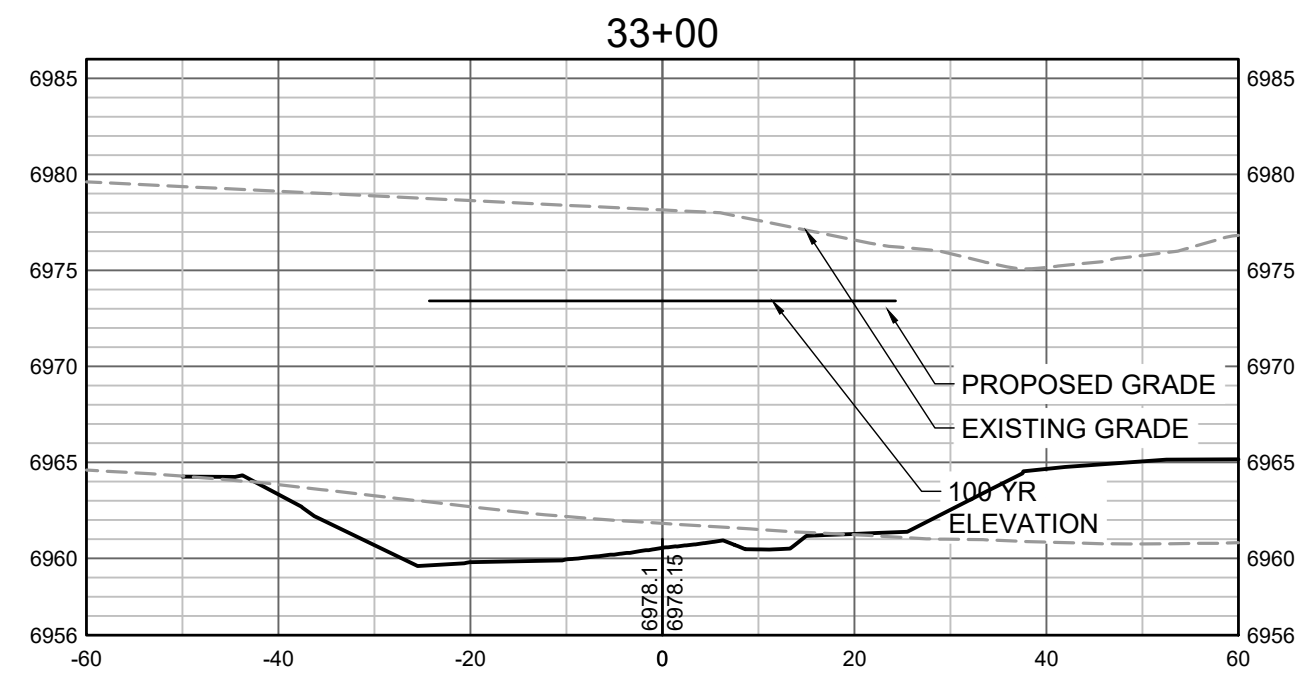
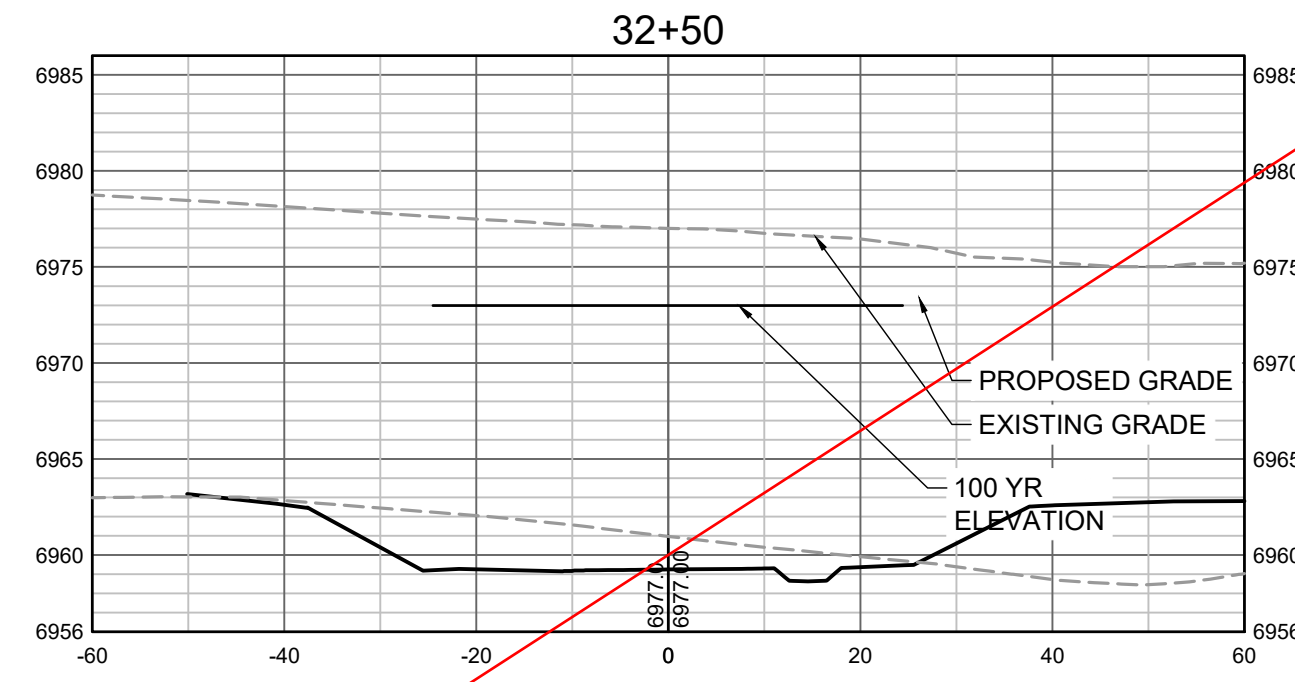
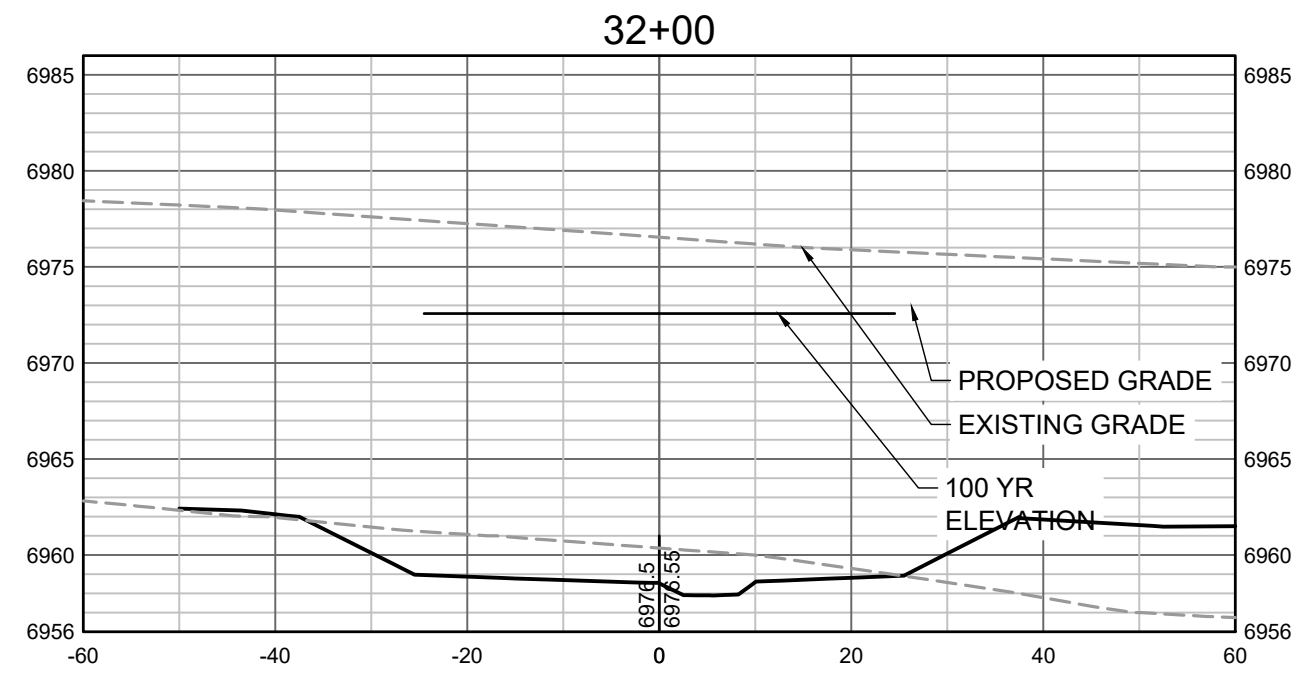
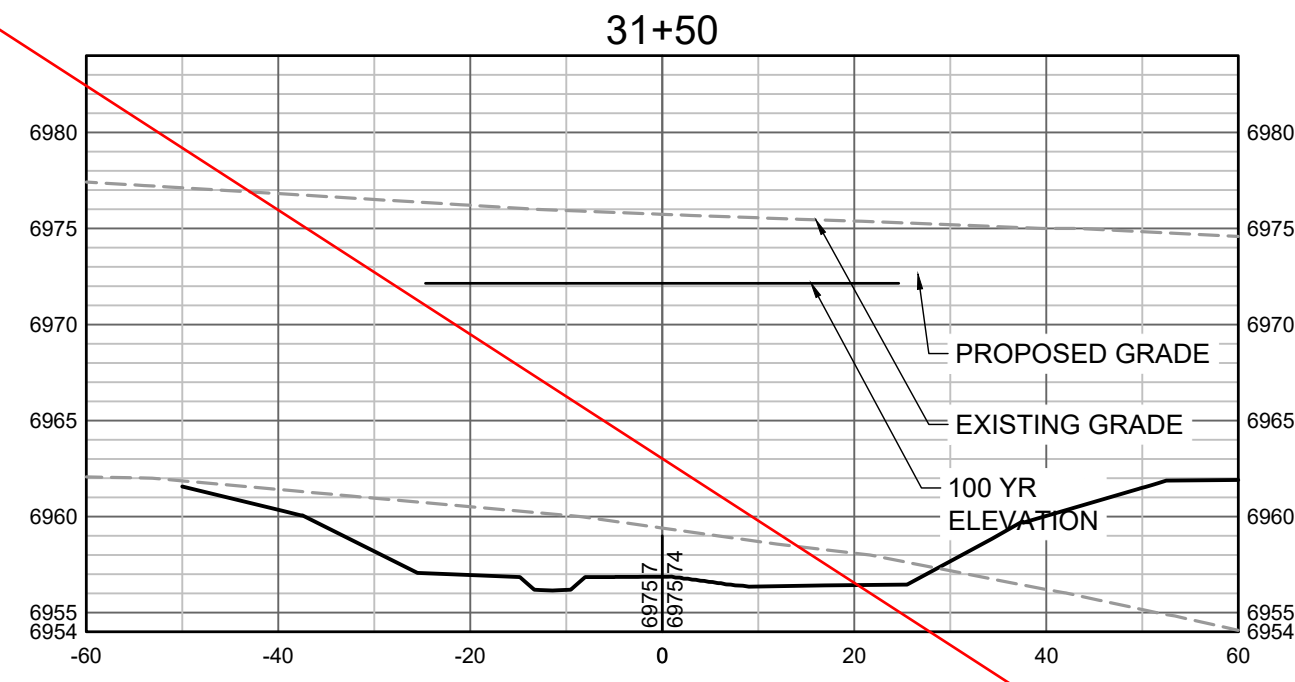
**HRGreen**  
HR GREEN - DENVER  
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DENVER CO 80111  
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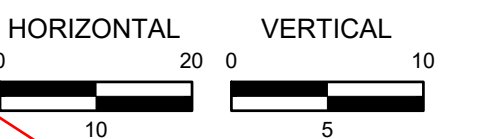
CONSTRUCTION DOCUMENTS  
TRIBUTARY 2 CROSS SECTIONS

SHEET  
**CS7**  
43





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  
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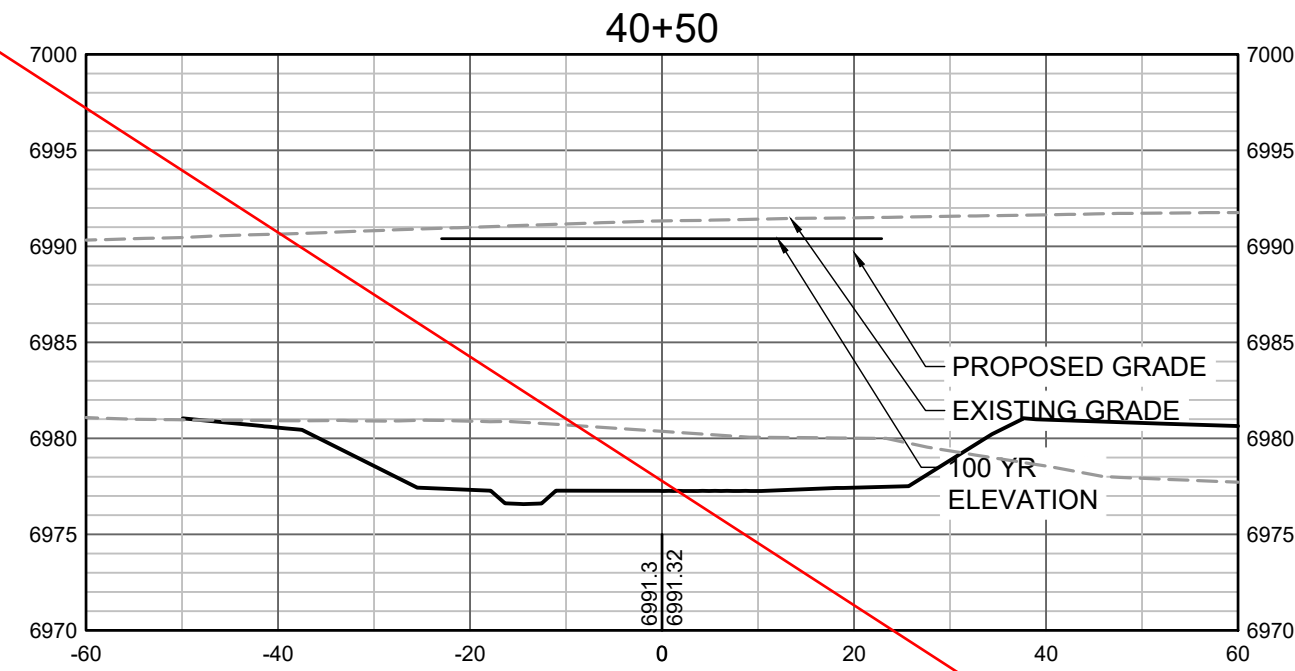
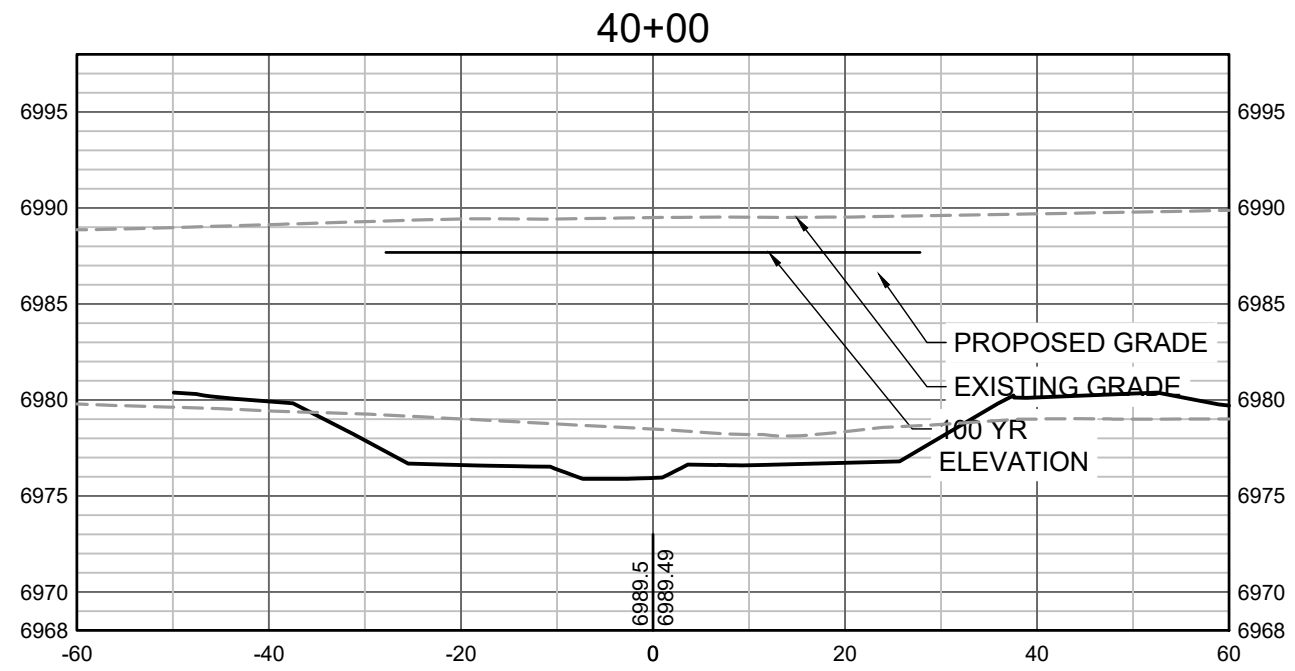
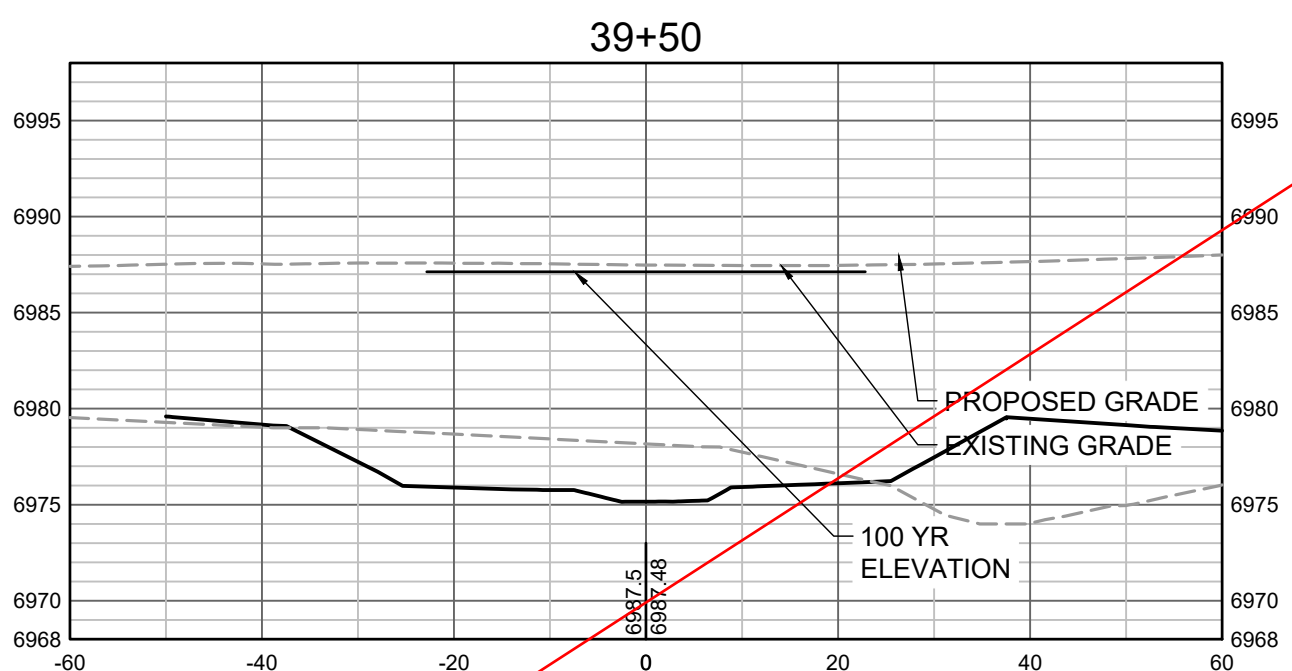
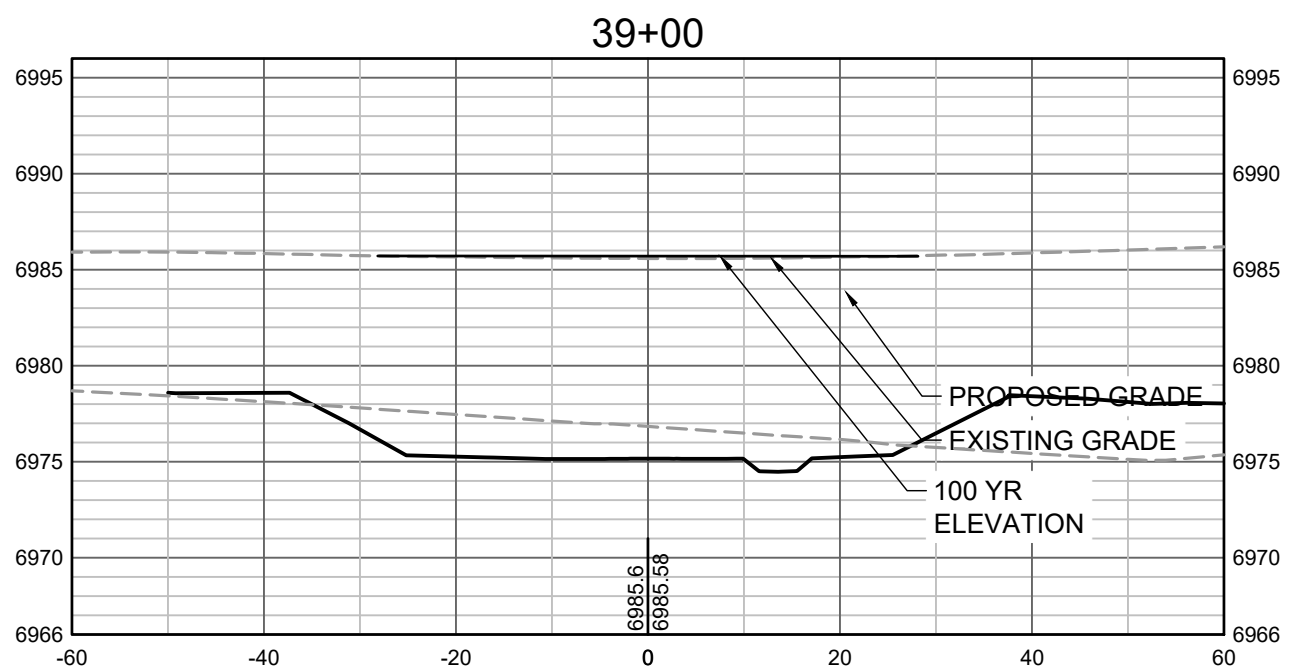
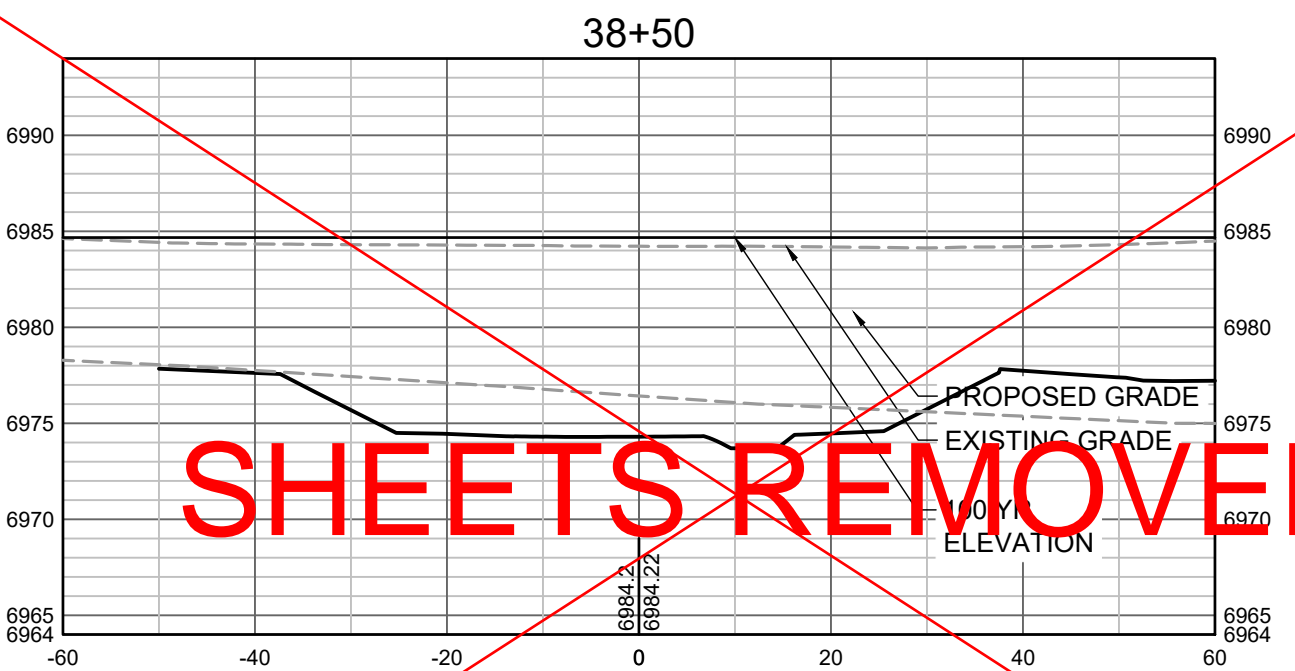
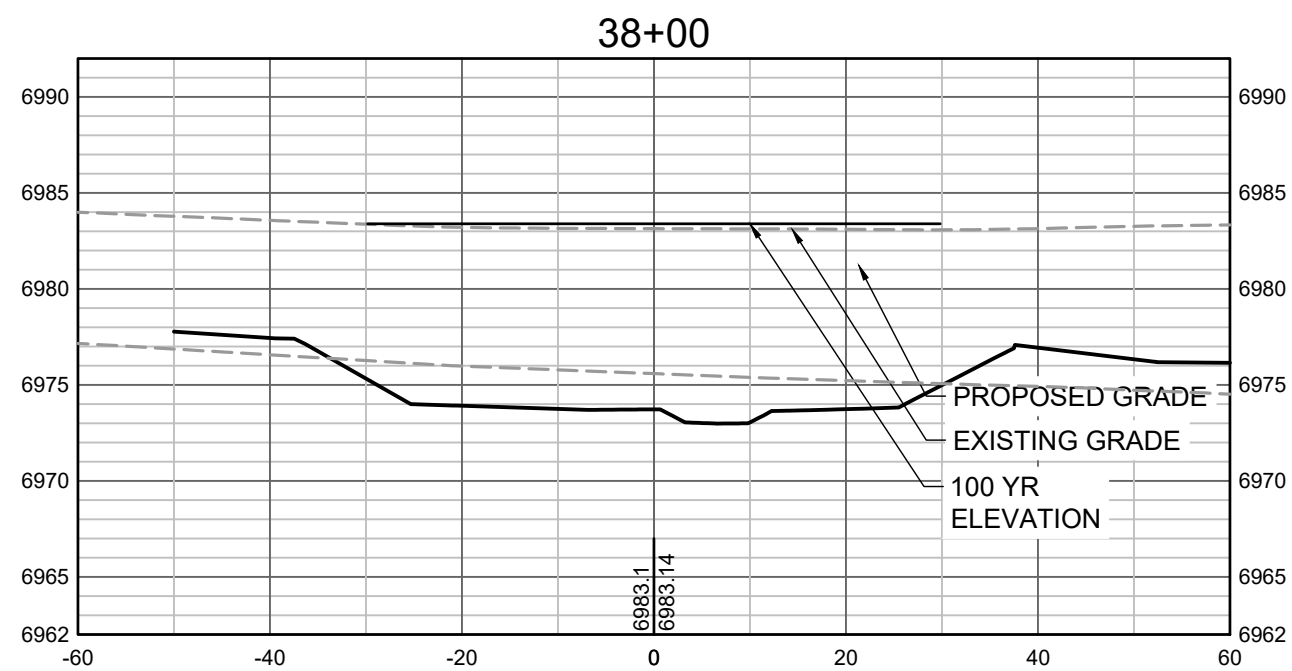
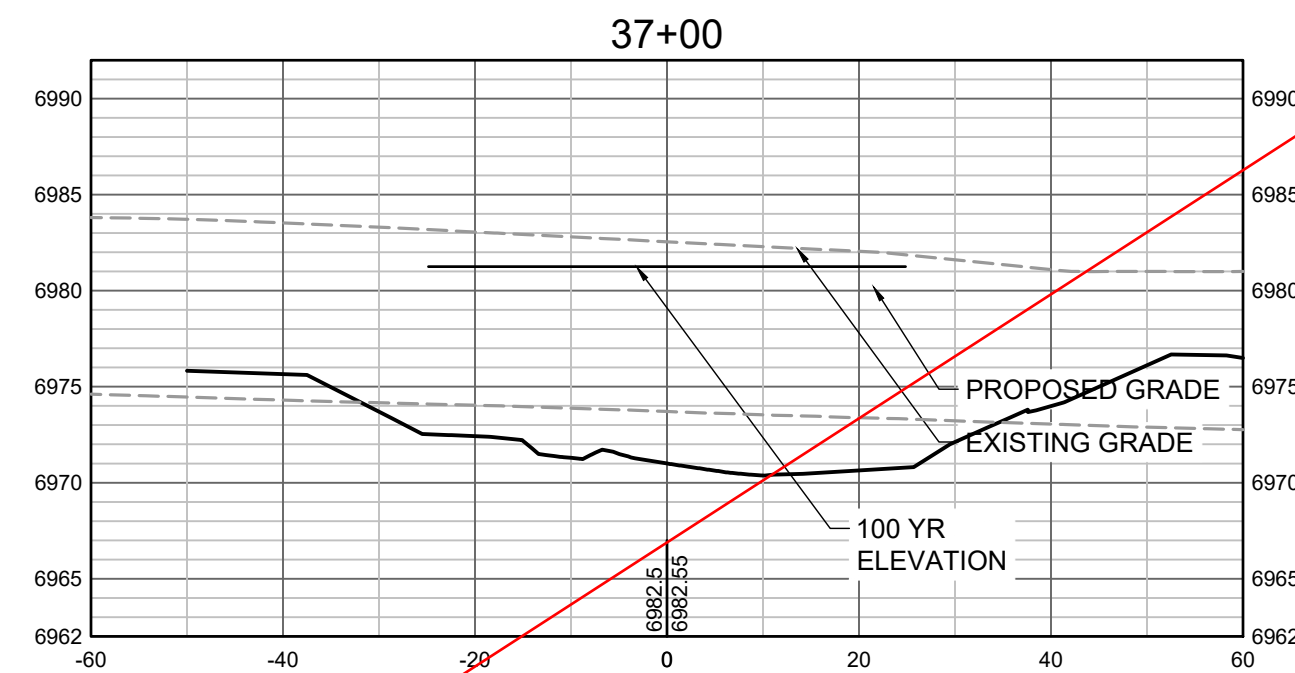
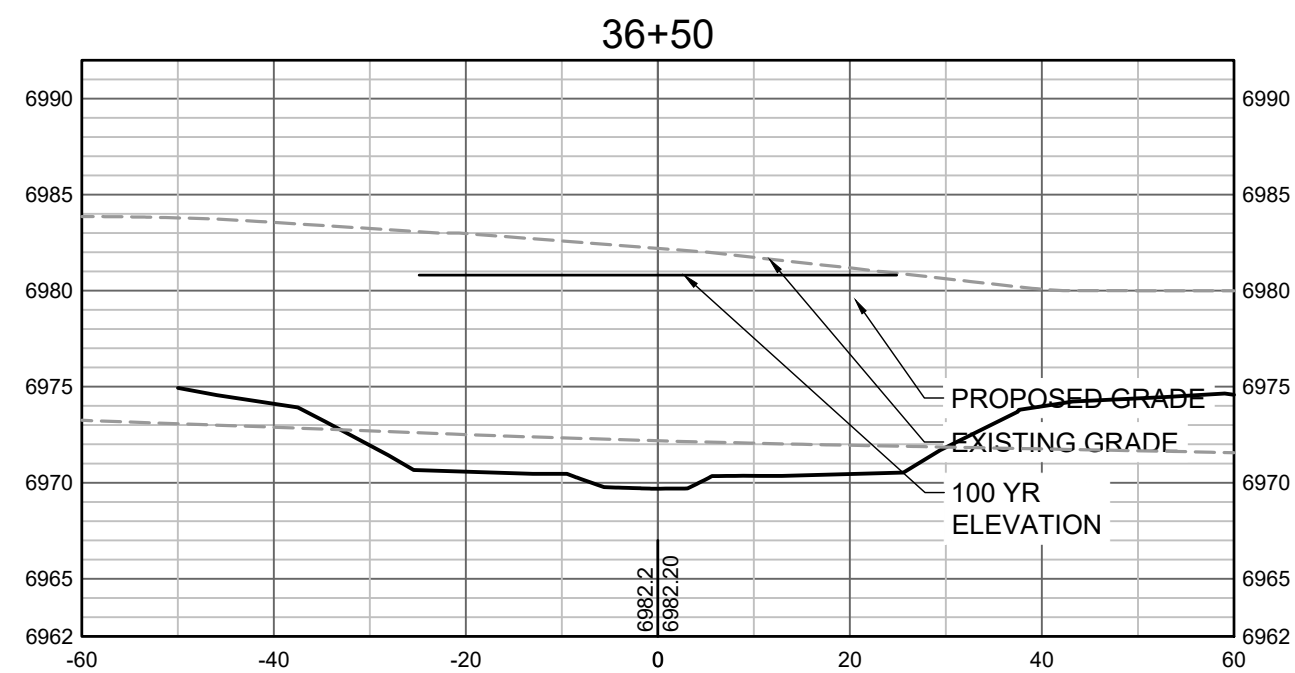
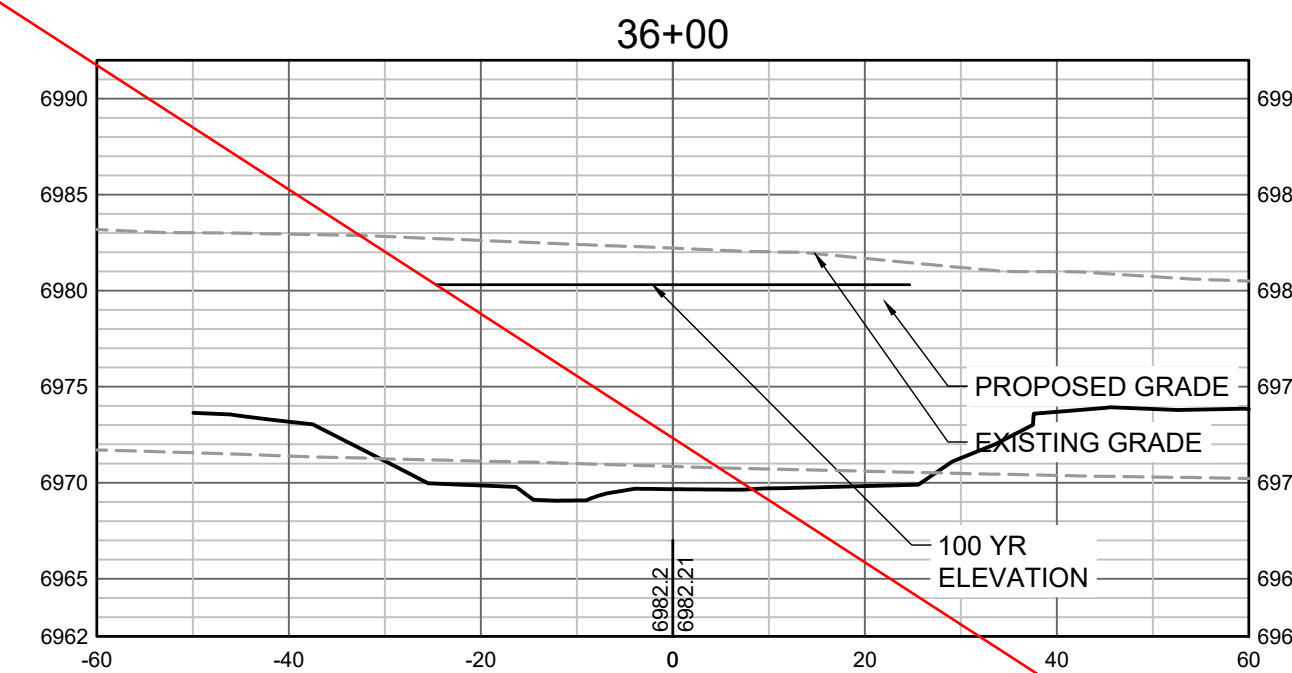
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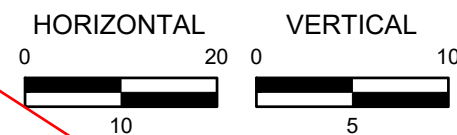
SHEET  
**CS8**  
44





SHEETS REMOVED

PROPOSED GRADES TO TIE INTO GRANDVIEW RESERVE FILING 1.  
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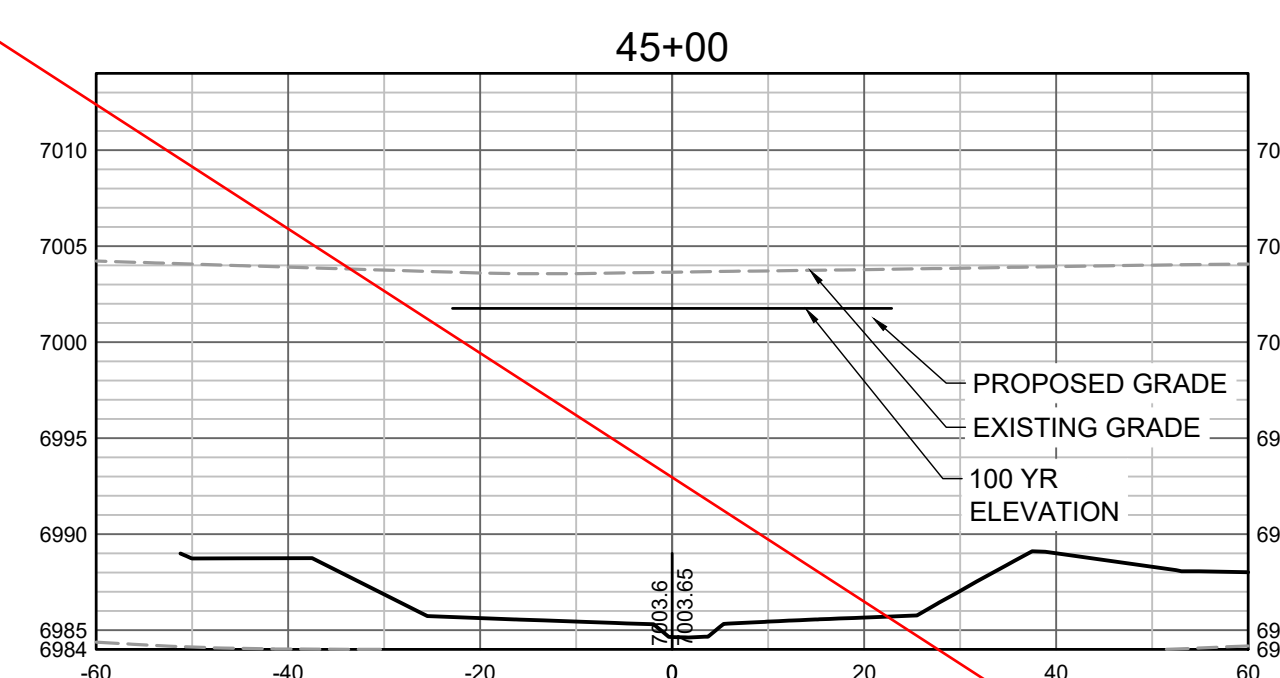
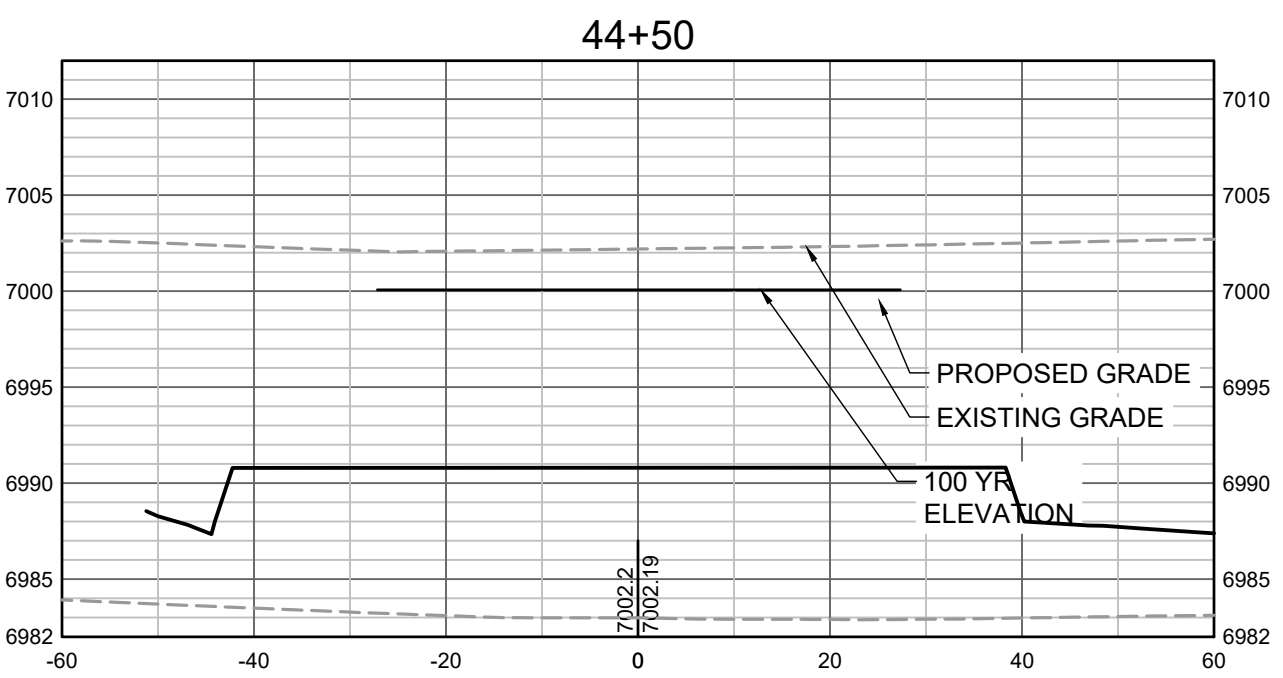
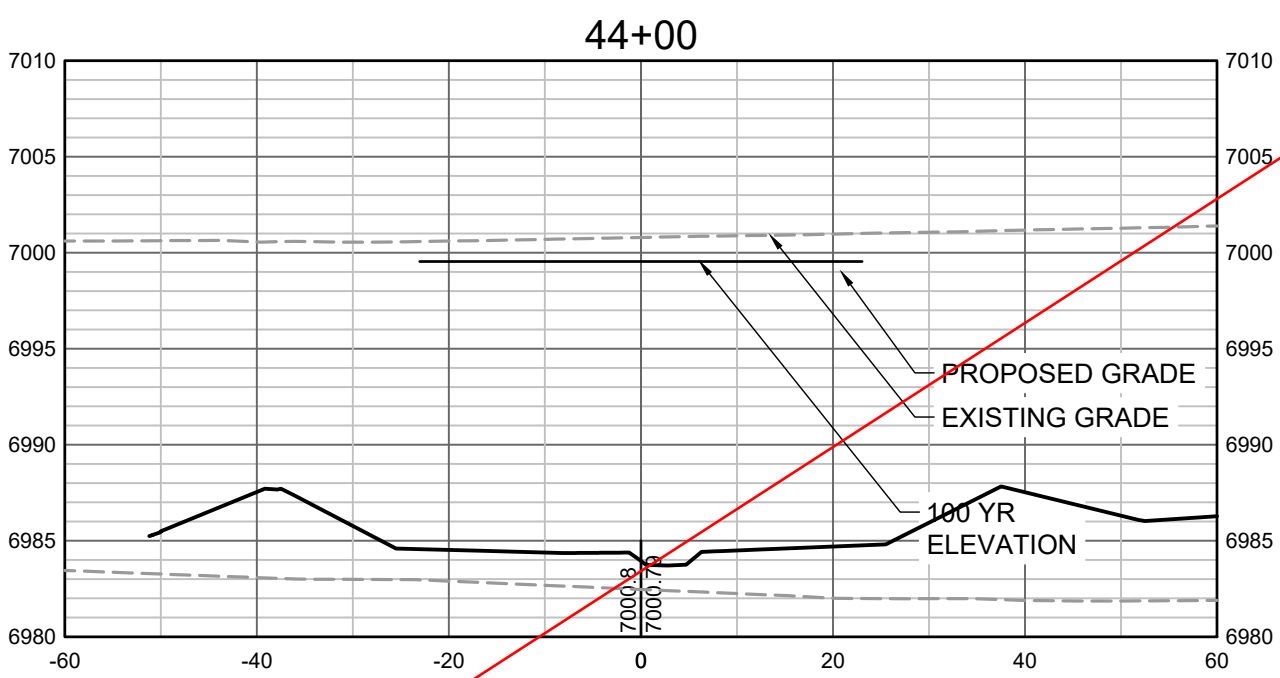
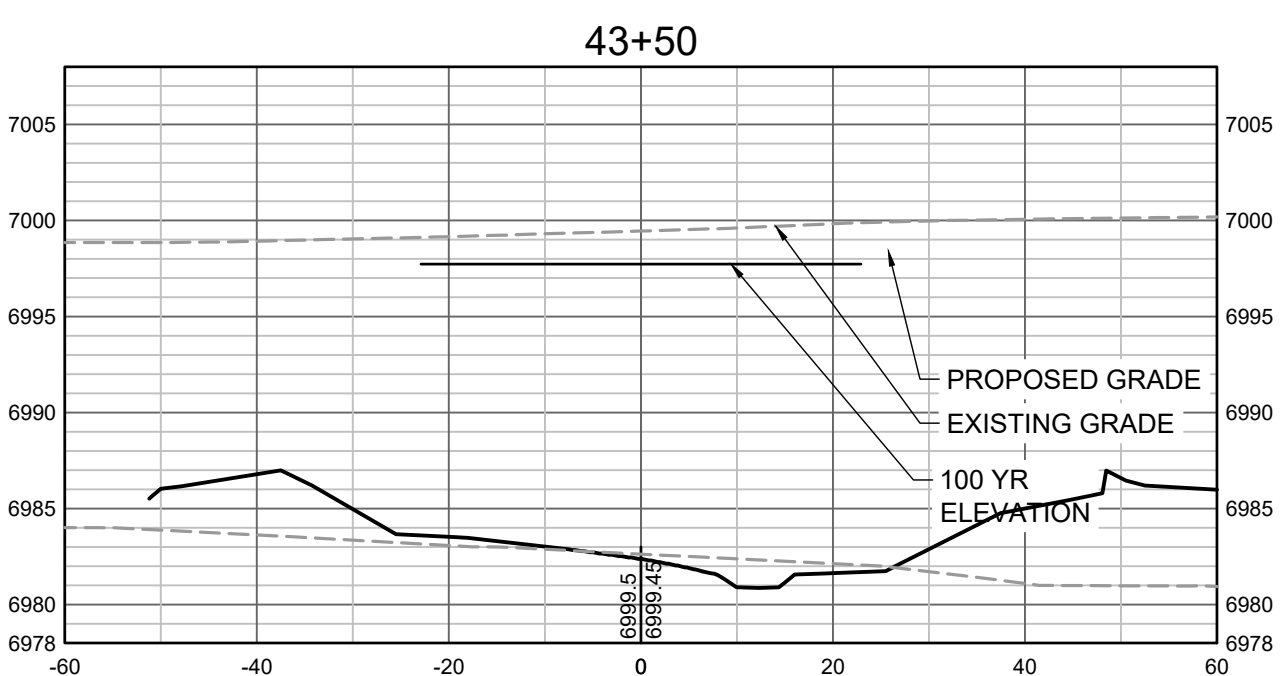
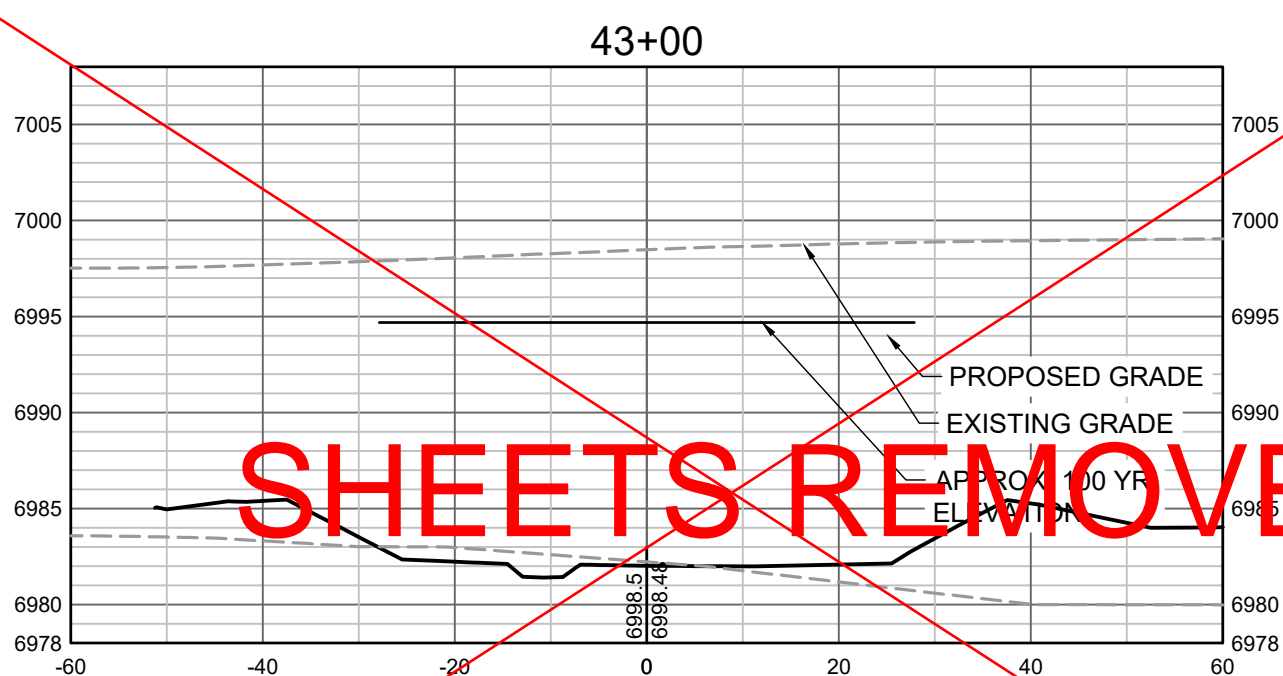
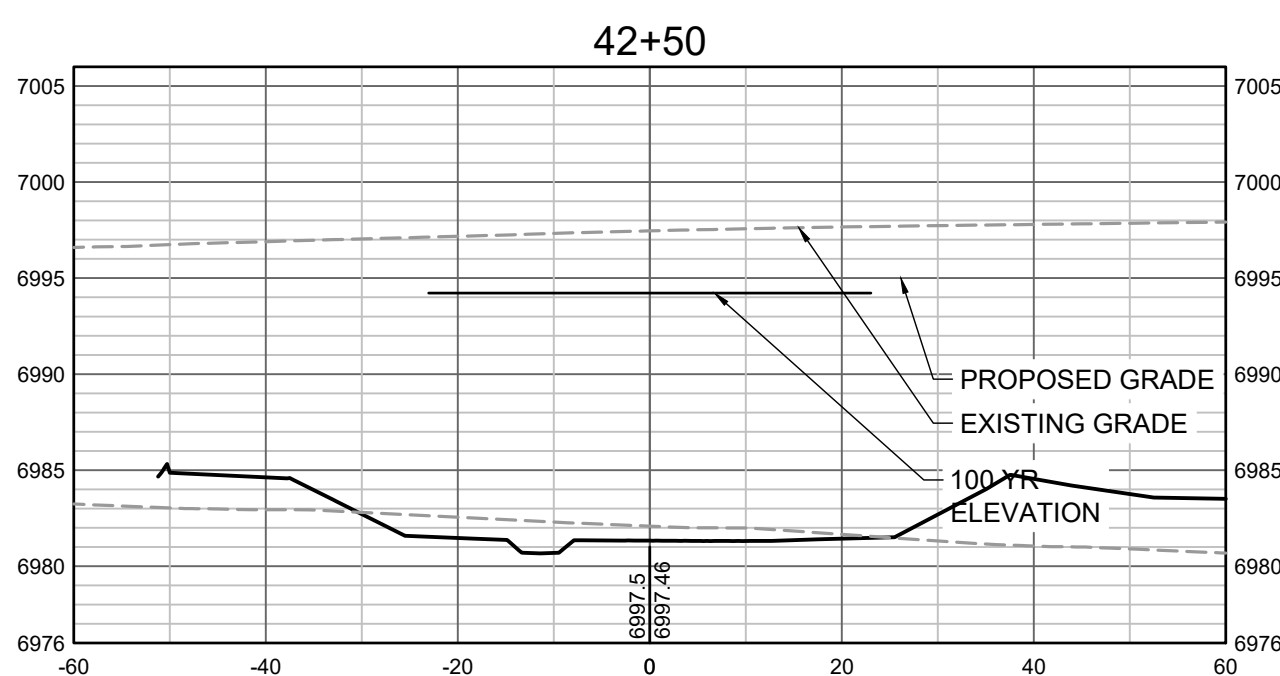
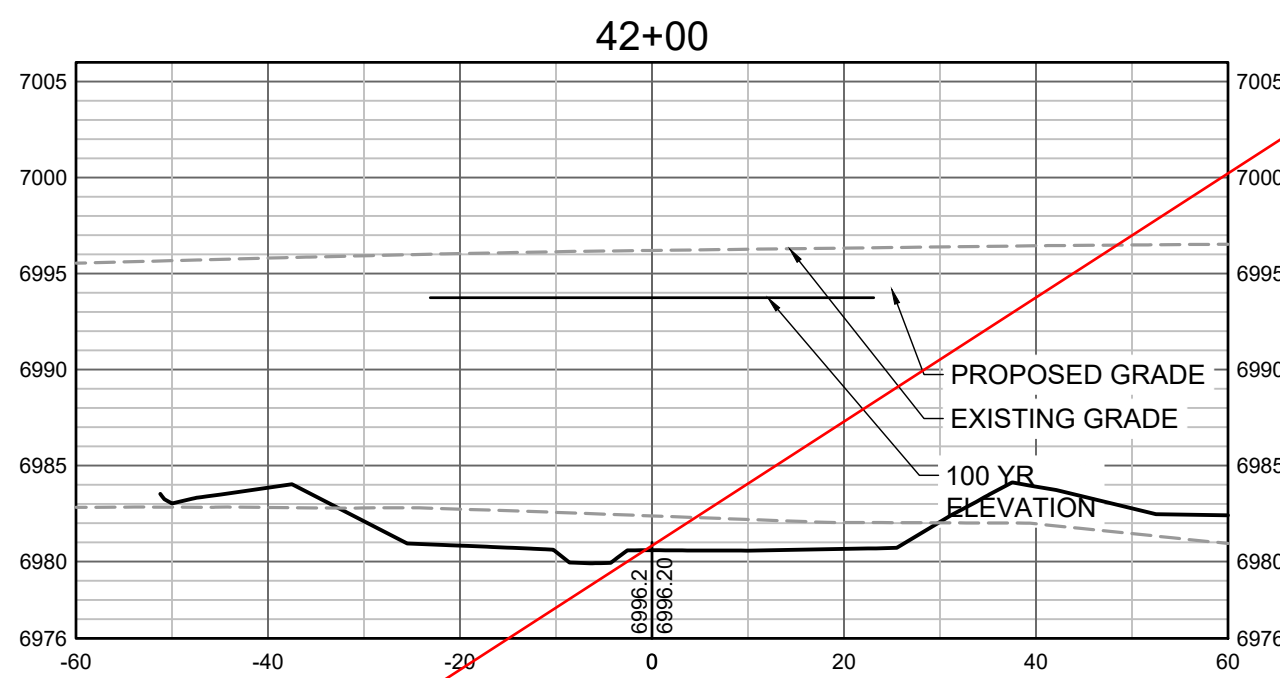
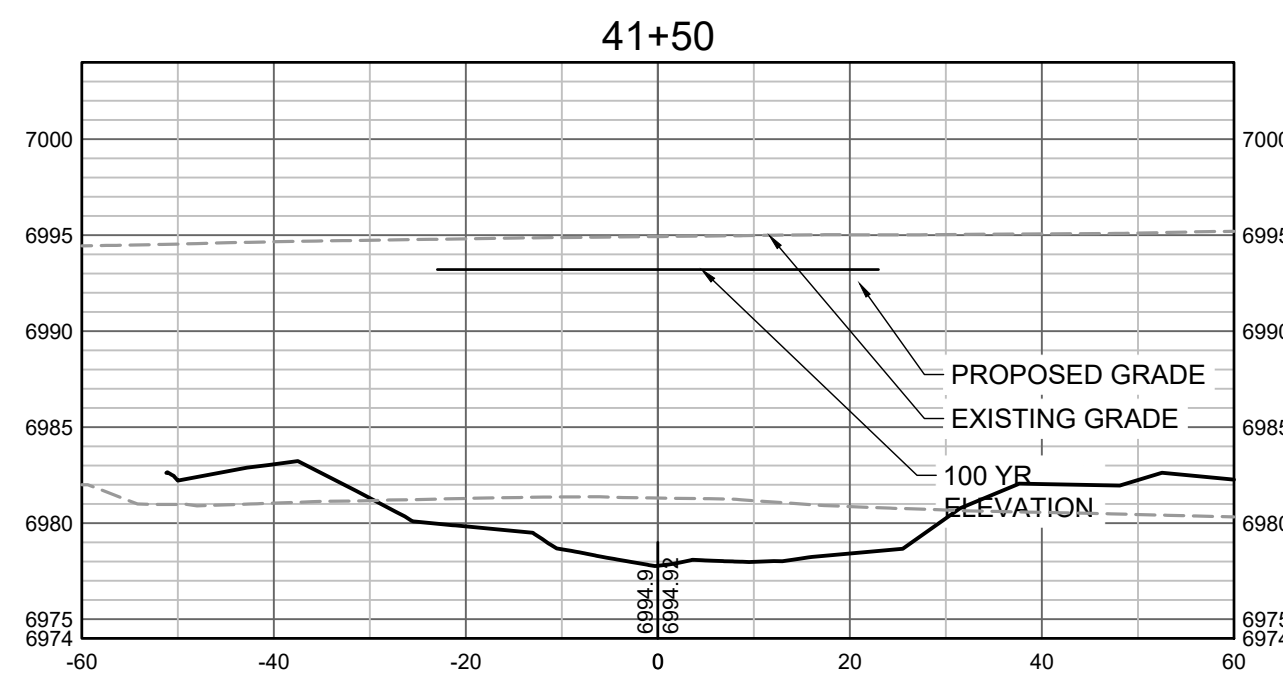
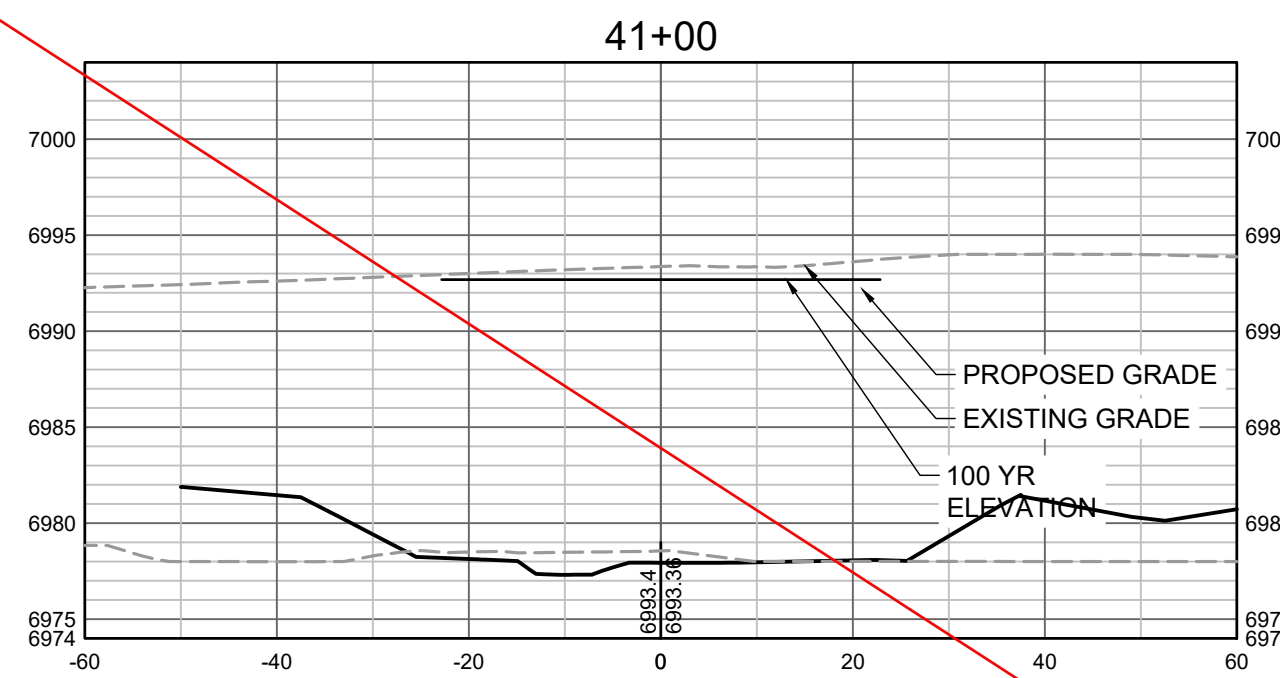
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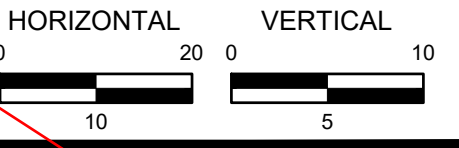
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45





SHEETS REMOVED

PROPOSED GRADES TO TIE INTO GRANDVIEW RESERVE FILING 1.  
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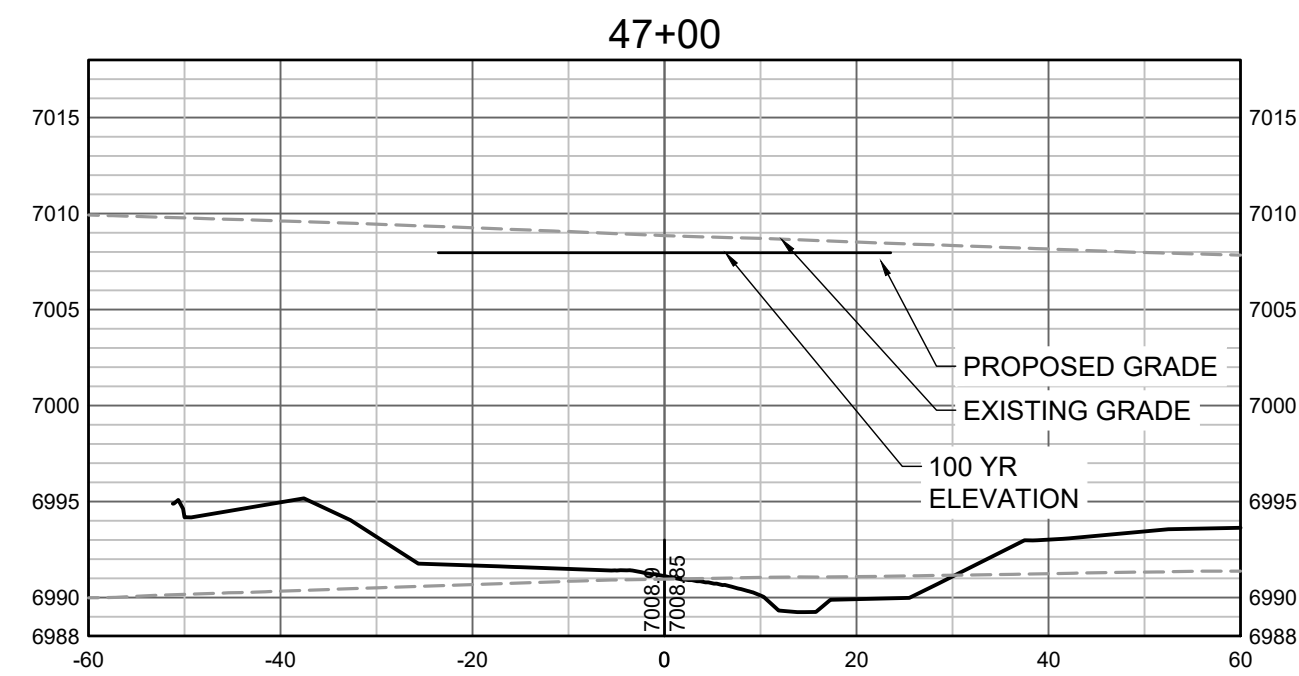
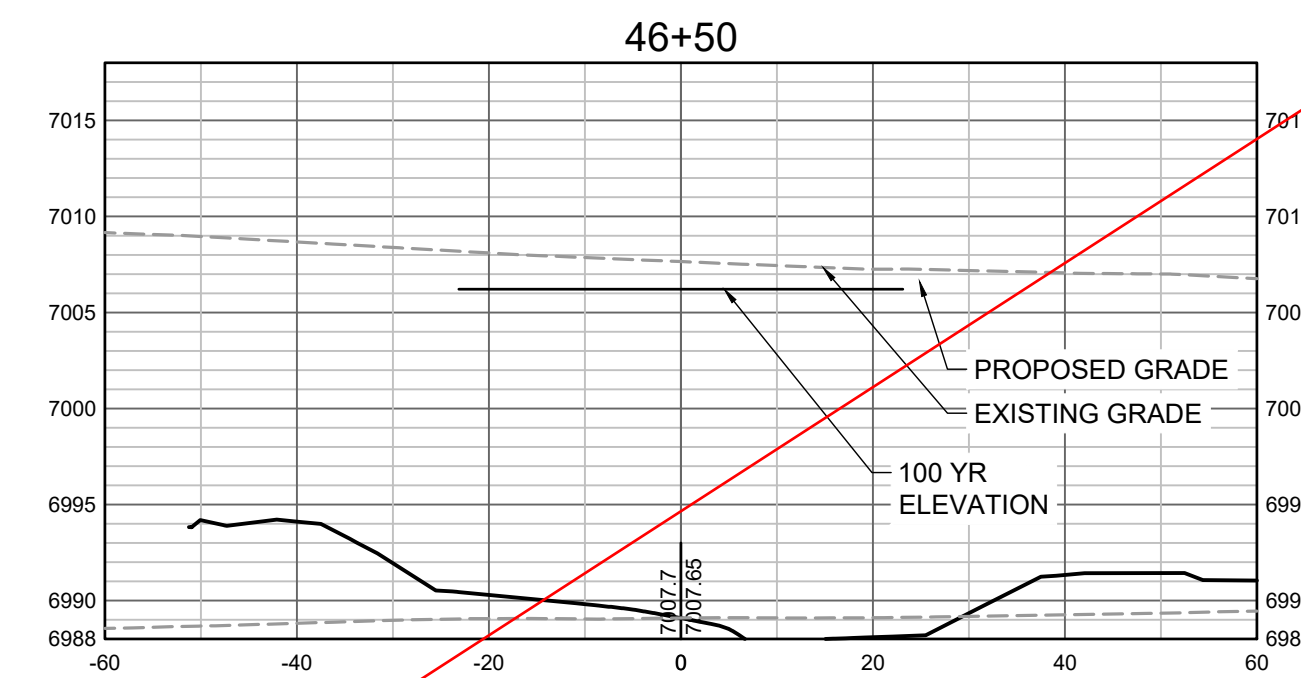
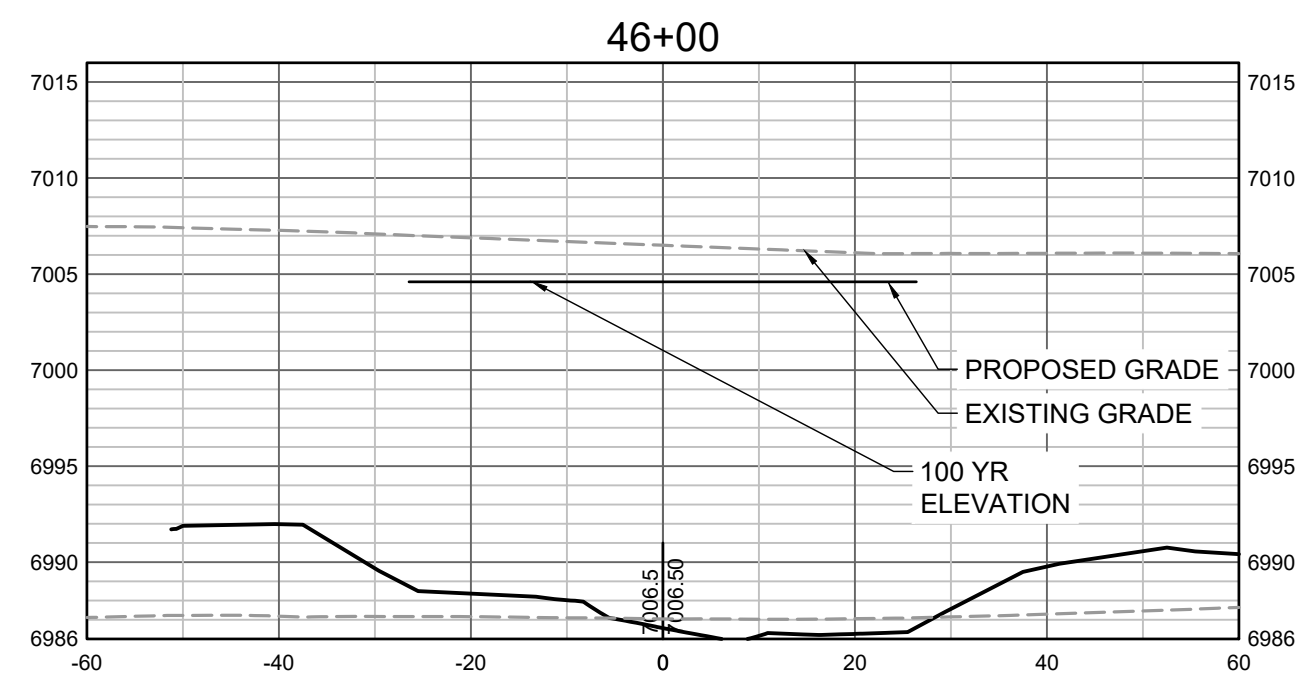
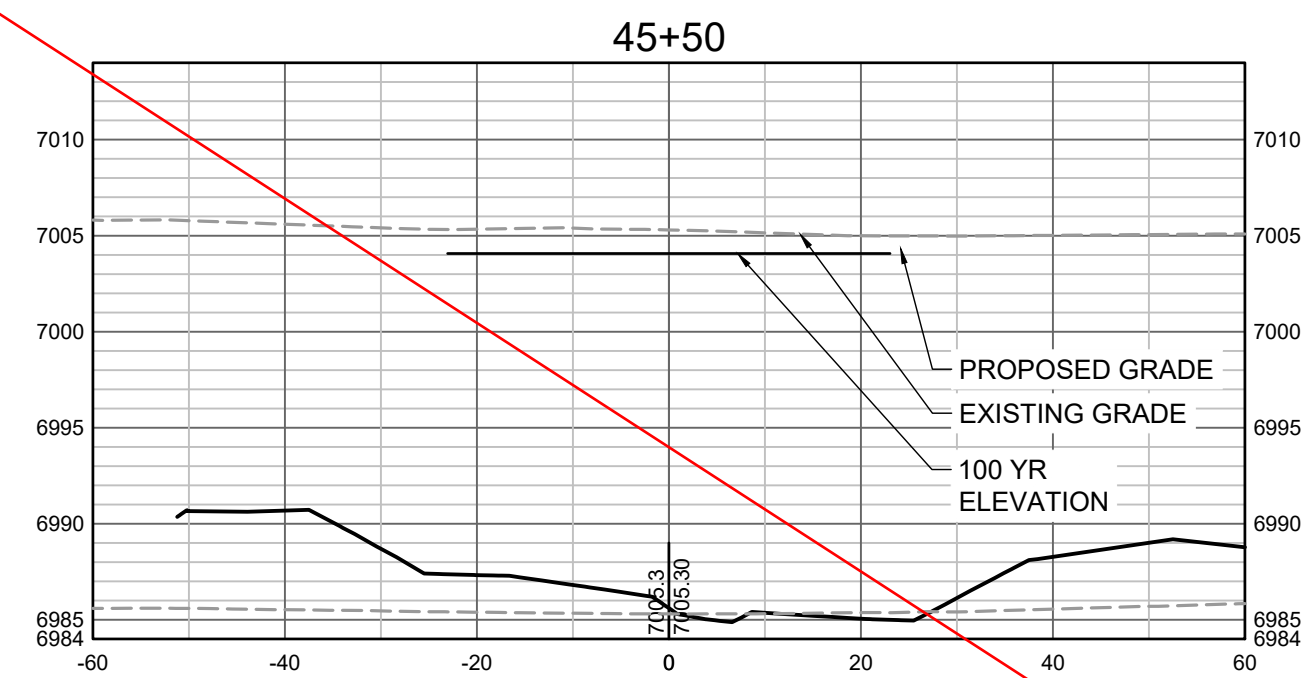
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TRIBUTARY 2 CROSS SECTIONS

SHEET  
**CS10**  
46

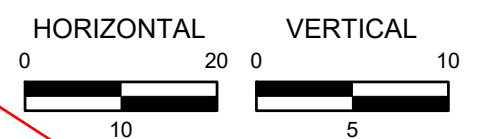
HR GREEN \xref\kgs\gdt-dh01-01-XC-PR-100YR\_FP\_DELINEATION





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PROPOSED GRADES TO TIE INTO GRANDVIEW RESERVE FILING 1.  
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SHEET  
CS11

47