

From: [DiSalvo, Rick \(CONTR\)](#)
To: ["carl.spreng@state.co.us"](mailto:carl.spreng@state.co.us)
Subject: OLF EPC regrading design drawings
Date: Monday, November 25, 2013 10:41:00 AM
Attachments: [COVER SHEET.pdf](#)
[DETAIL SHEET.pdf](#)
[GRADING SHEET.pdf](#)
[PROFILE SHEET.pdf](#)
[PROFILE SHEET-FIGURE.pdf](#)

Hello Carl, here is drawing set (4 sheets) FYI. The 5th sheet, Profile sheet - Figure, is Figure 1 for the CR 2013-03.

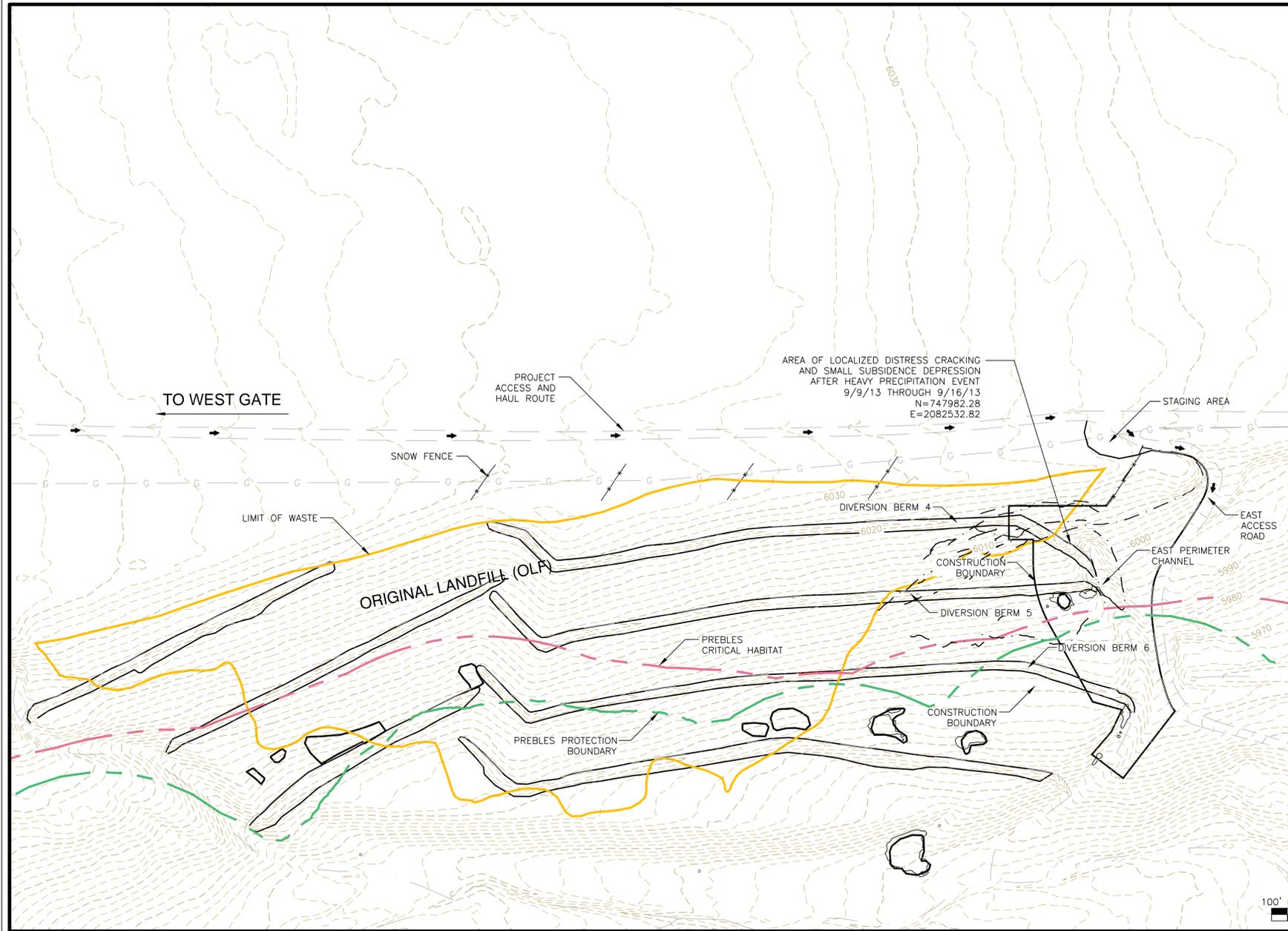
A few minor things are being fixed on the drawings before we send to you for approval before construction begins.

Let me know if any comments or questions.

Thank you.

UNITED STATES DEPARTMENT OF ENERGY

OFFICE OF LEGACY MANAGEMENT OLF EAST PERIMETER CHANNEL AND BERM MODIFICATIONS ROCKY FLATS SITE, CO.



PROJECT PLAN

INDEX OF DRAWINGS

SHEET	TITLE	DRAWING NO.
1	TITLE SHEET	S10848-T01-ROO-D+
2	PROJECT SITE PLAN	S10849-S01-ROO-D+
3	PLAN, PROFILE AND SECTIONS	S10850-C01-ROO-D+
4	DETAILS	S10851-C02-ROO-D+

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND THE BASIC WORK ORDER AGREEMENT, STATEMENT OF WORK DOC. NO. S05944 REV. 2, UPDATED NOVEMBER 2013, AND TASK SPECIFIC SCOPE OF WORK, DOCUMENT NO. S10847.

ABBREVIATIONS

APPROX	APPROXIMATE	MAX	MAXIMUM
BOTT	BOTTOM	MIN	MINIMUM
BT	BOTTOM OF TANK	MW	MONITORING WELL
C	CENTER LINE	N	NORTHING
CLR	CLEAR	NA	NOT APPLICABLE
CONC	CONCRETE	NO	NUMBER
CONT	CONTINUATION	NOM	NOMINAL
CSP	CORRUGATED STEEL PIPE	N.I.C.	NOT IN CONTRACT
CTB	CONCRETE THRUST BLOCK	NPT	NATIONAL PIPE THREAD
DIA OR Ø	DIAMETER	NTS	NOT TO SCALE
DDE	DEPARTMENT OF ENERGY	OC	ON CENTER
EA	EACH	OD	OUTSIDE DIAMETER
E	EASTING	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
E.O.A.	EDGE OF ASPHALT	PIP	PLASTIC IRRIGATION PIPE
ELL	ELBOW	PLC'S	PLACES
EL OR ELEV	ELEVATION	PVC	POLYVINYL CHLORIDE
EQUA	EQUATION	R.O.W.	RIGHT-OF-WAY
EXIST	EXISTING	SCH	SCHEDULE
FH	FIRE HYDRANT	SDR	STRENGTH TO DIAMETER RATIO
FLG	FLANGE	SHT	SHEET
GA	GUAGE	STA	STATION
GALV	GALVANIZED	TT	TOP OF TANK
GMP	GALLONS PER MINUTE	THK	THICK
G.I.P.	GALVANIZED IRON PIPE	TYP	TYPICAL
HDPE	HIGH DENSITY POLYETHYLENE	UC	UNDERGROUND
HORIZ	HORIZONTAL	UC	VERTICAL
IP	IRRIGATION PIPE	VERT	VERTICAL
IRR	IRRIGATION	WV	WATER VALVE
INV	INVERT		

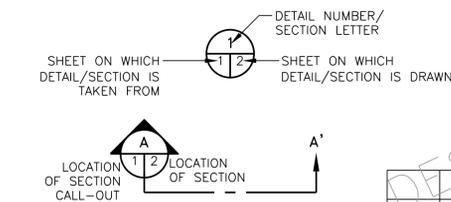
DRAWING LEGEND

	PROPOSED CONTOURS		CRACKS
	EXISTING CONTOURS		SNOW FENCE
	WASTE BOUNDARY		EROSION CONTROL WATLES/STRAW BALES
	CRITICAL HABITAT		PROJECT ACCESS/HAUL ROUTE
	PREBLES PROTECTION AREA		EROSION CONTROL WATLES/STRAW BALES
	TRM AREA (TURF REINFORCEMENT MAT. NAG P550 OR EQUAL)		EROSION CONTROL WATLES/STRAW BALES
	EROSION BLANKET (NAG SC125BN OR EQUAL)		EROSION CONTROL WATLES/STRAW BALES
	SEEPS		EROSION CONTROL WATLES/STRAW BALES
	WETLANDS		EROSION CONTROL WATLES/STRAW BALES
	BURIED-GAS LINES		EROSION CONTROL WATLES/STRAW BALES
	EXISTING UNIMPROVED DIRT ROAD		EROSION CONTROL WATLES/STRAW BALES

SECTION

	COMPACTED FILL
	PREPARED SUBGRADE
	TRM
	SOIL RIPRAP MIX
	EROSION BLANKET

DETAIL SYMBOL

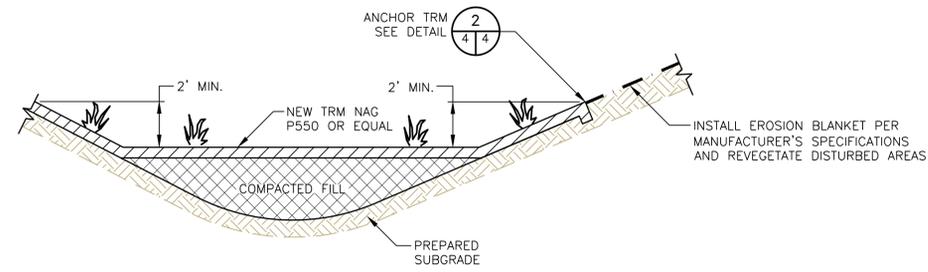


BASIS OF BEARINGS: ALL BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE MODIFIED COORDINATE SYSTEM CENTRAL ZONE 0502 WITH A COMBINED SCALE FACTOR OF 1.000243386. HORIZONTAL DATUM IS NORTH AMERICAN DATUM 1927. VERTICAL DATUM IS NATIONAL GEODETIC VERTICAL DATUM 1929. THE BASIS OF GRID BEARINGS IS THE LINE BETWEEN NGS POINT TT23J BEING A BRONZE BENCHMARK DISC IN AN 8" SQUARE CONCRETE MONUMENT STAMPED TT23J 1936 (GROUND COORDINATES: NORTHING=763176.84, EASTING=2075459.12) AND NGS POINT JEFFCO RESET BEING A SURFACE DISC BRASS CAP IN 12" ROUND CONCRETE STAMPED JEFFCO 1977 1980 (GROUND COORDINATES: NORTHING=757491.88, EASTING=2113632.77). THAT BEARING IS S81°31'46"E.

GENERAL PROJECT NOTES:

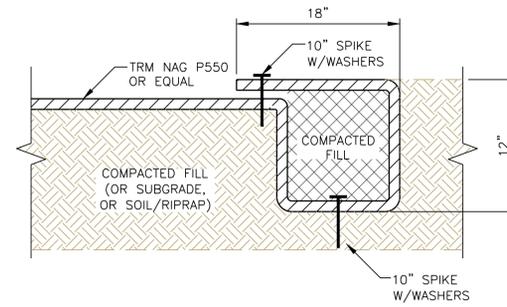
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<p>APPROVALS</p> <table border="1"> <tbody> <tr> <td>DRAWN BY</td> <td>DANIEL MONTEZ</td> <td>11/22/13</td> </tr> <tr> <td>ENGINEER</td> <td>TOM CHAPEL</td> <td>11/22/13</td> </tr> <tr> <td>PROJECT ENGINEER</td> <td>STEPHEN PITTON</td> <td>11/22/13</td> </tr> <tr> <td>ENGINEERING MANAGER</td> <td>MELVIN MADRIL</td> <td>11/22/13</td> </tr> <tr> <td>PROJECT LEAD</td> <td>RICK DISALVO</td> <td>11/22/13</td> </tr> <tr> <td>SUPV. MANAGER/ENGINEER</td> <td>LINDA KAISER</td> <td>11/22/13</td> </tr> </tbody> </table>							DRAWN BY	DANIEL MONTEZ	11/22/13	ENGINEER	TOM CHAPEL	11/22/13	PROJECT ENGINEER	STEPHEN PITTON	11/22/13	ENGINEERING MANAGER	MELVIN MADRIL	11/22/13	PROJECT LEAD	RICK DISALVO	11/22/13	SUPV. MANAGER/ENGINEER	LINDA KAISER	11/22/13
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<p>ORIGINAL LANDFILL</p>																								
<p>TITLE SHEET</p>																								
<p>PROJECT NO. LTS-111-0056-07-001H</p>						<p>SHEET 1 OF 4</p>																		
<p>DRAWING NO. S10848-T01-ROO-D+</p>																								



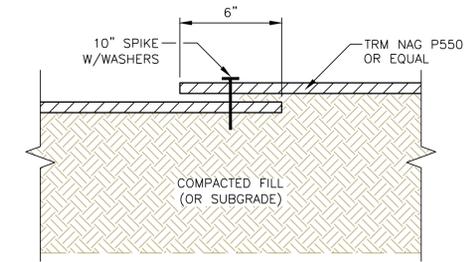
NOTE: SEE DETAIL **3** FOR OVERLAPPING DETAILS.

EAST PERIMETER CHANNEL TRM PLACEMENT (TYP)
N.T.S. **1**



NOTE: FOLLOW MANUFACTURER'S SPECIFICATIONS FOR STAPLE/SPIKE FREQUENCY.

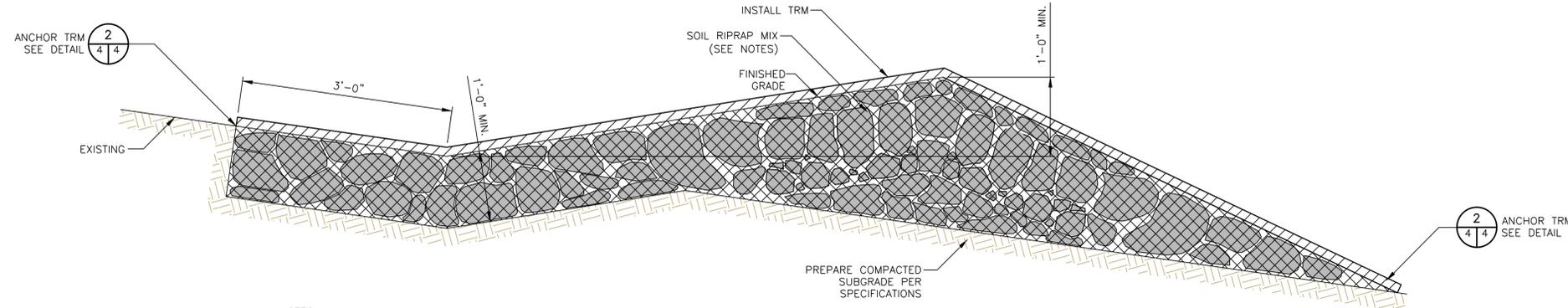
TRM ANCHOR DETAIL (TYP)
N.T.S. **2**



NOTE: INCREASE OVERLAP TO 12" AND DOUBLE THE SPIKES FOR NEW TRM INTO EXISTING TRM.

FOLLOW MANUFACTURER'S SPECIFICATIONS FOR STAPLE/SPIKE FREQUENCY.

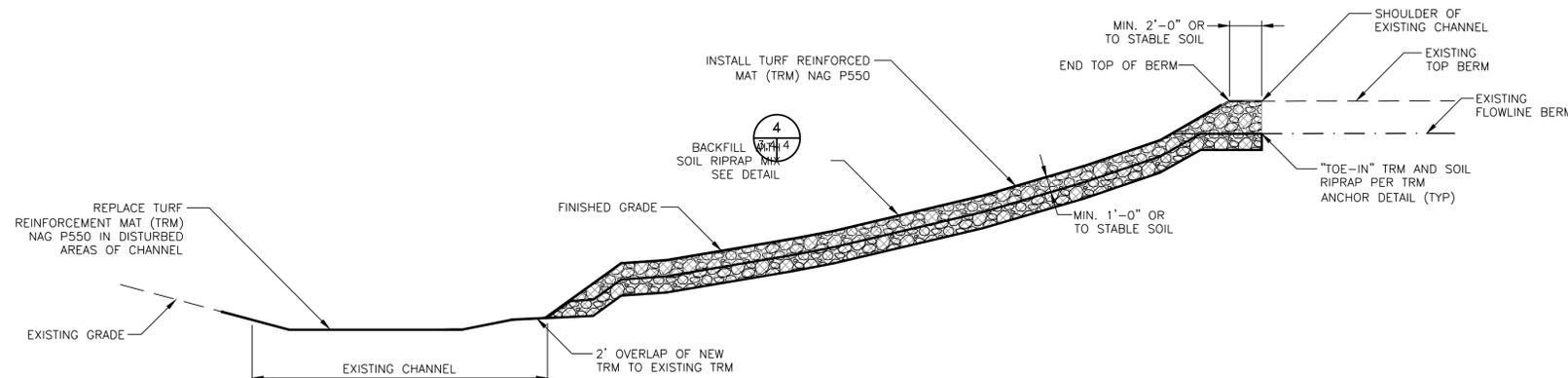
TRM OVERLAPPING DETAIL (TYP)
N.T.S. **3**



NOTES:

- MIX UNIFORMLY 65% RIPRAP (D50=6") BY VOLUME WITH 35% OF APPROVED SOIL BY VOLUME PRIOR TO PLACEMENT.
- PLACE AND COMPACT SOIL RIPRAP MIX AS WRITTEN IN SPECIFICATIONS. COMPACT AND LEVEL TO ELIMINATE ALL VOIDS AND ROCKS PROJECTING ABOVE DESIGN GRADE.

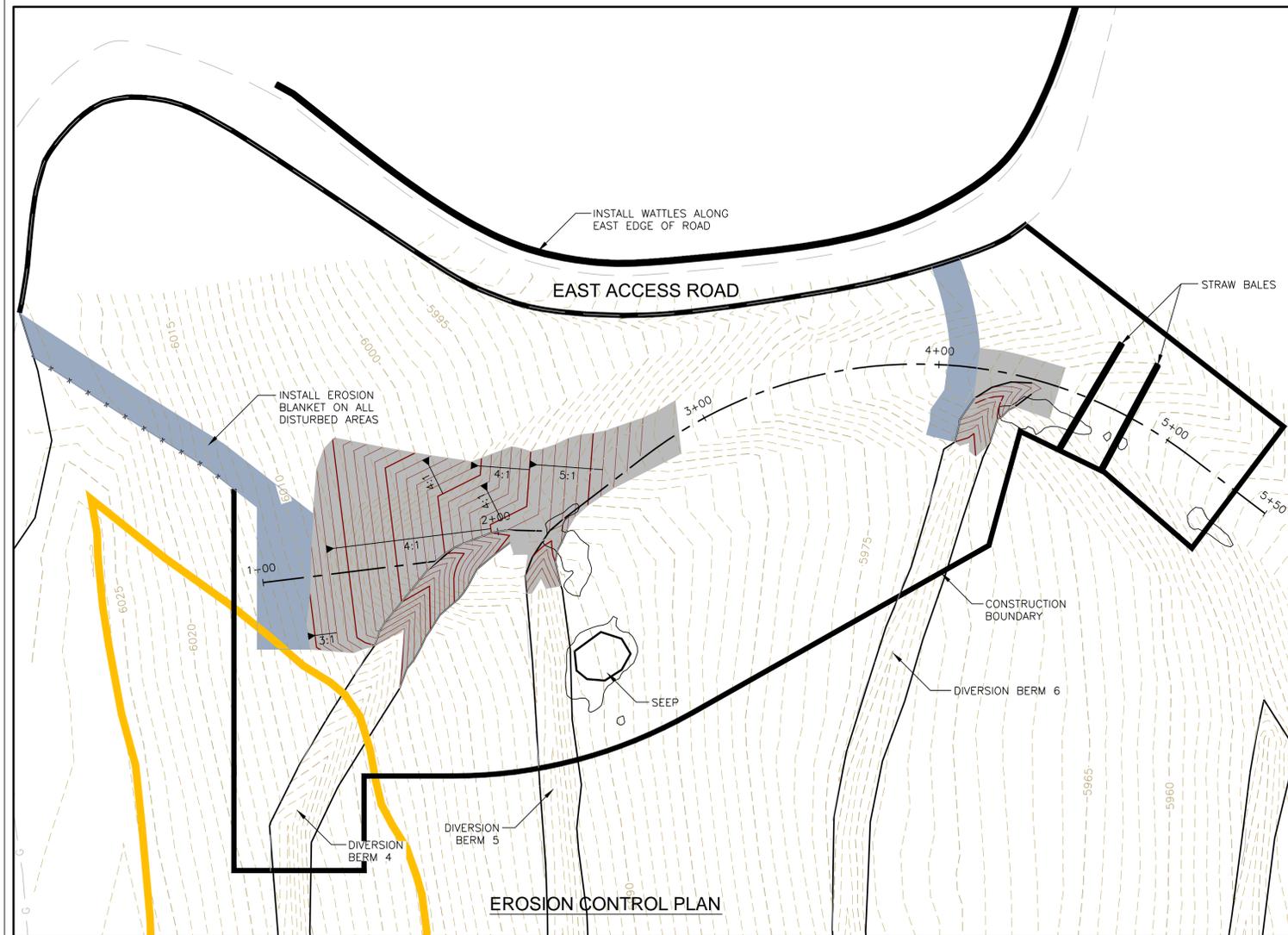
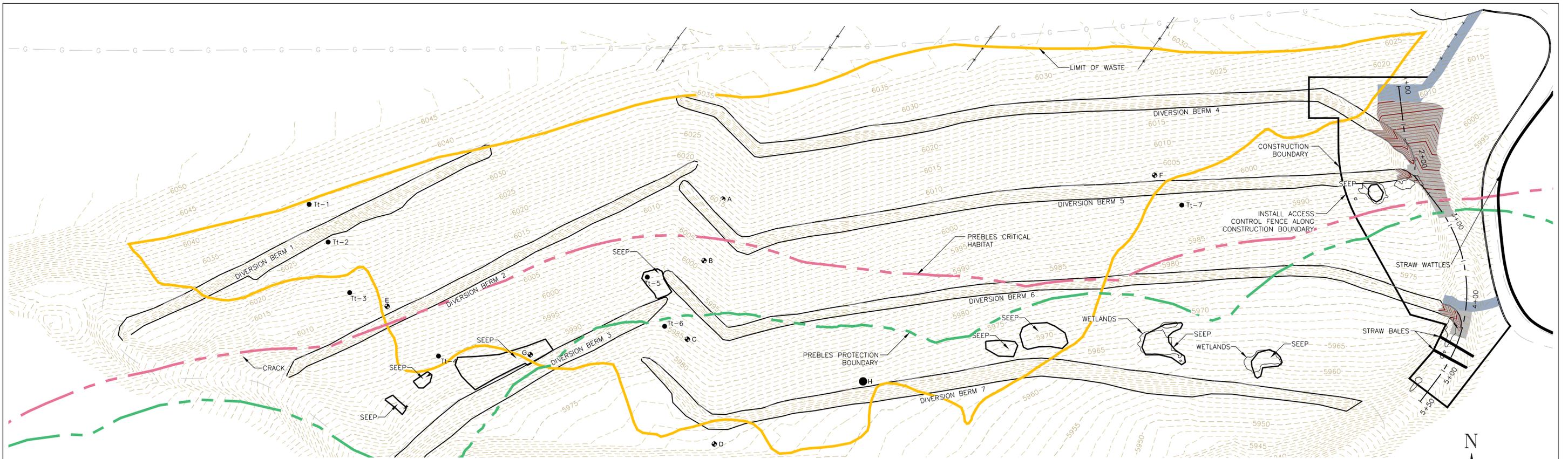
DIVERSION BERM TIE-IN TO EAST PERIMETER CHANNEL CROSS SECTION (TYP)
N.T.S. **4**



PROFILE OF DIVERSION BERMS (4,5,6) TIE-IN TO EAST PERIMETER CHANNEL AS OBSERVED FROM UPSTREAM VIEWPOINT (TYP)
N.T.S.

FINAL DESIGN

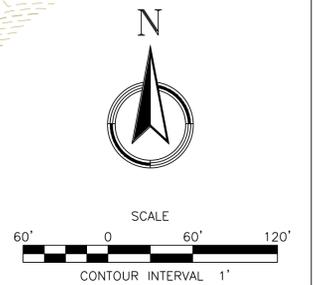
REVISION NO.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY	PROJECT #/E	APPROVAL
U.S. DEPARTMENT OF ENERGY GRAND JUNCTION, COLORADO			Work Performed by S.M. Stoller Corporation Under DOE Contract No. DE-AM01-07LM00060			
PROJECT LOCATION ROCKY FLATS SITE JEFFERSON COUNTY, CO.			APPROVALS		ORIGINAL LANDFILL	
			DRAWN BY DANIEL MONTEZ	11/22/13		
			ENGINEER TOM CHAPEL	11/22/13		
			PROJECT ENGINEER STEPHEN PITTON	11/22/13		
REFERENCE			ENGINEERING MANAGER MELVIN MADRIL	11/22/13		
			PROJECT LEAD RICK DISALVO	11/22/13		
			TRM MANUFACTURER LINDA KAISER	11/22/13		
			PROJECT NO. LTS-111-0056-07-001H		SHEET 4 OF 4	
			DRAWING NO. S10851-C02-R00-D+			



ORIGINAL LANDFILL SITE PLAN

ESTIMATED EROSION CONTROL MATERIAL	
TRM	9056 FT ²
EROSION BLANKET	3669 FT ²
WATTLES	401 LF
STRAW BALES	100 LF
ACCESS BARRIER	1422 LF

NOTE: ACTUAL QUANTITIES MAY VARY IN THE FIELD. CONTRACTOR WILL PROVIDE THE TRM, EROSION BLANKET, WATTLES, AND STRAW BALES.

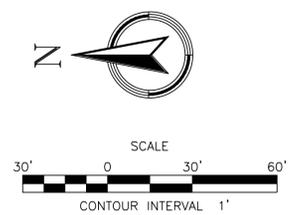
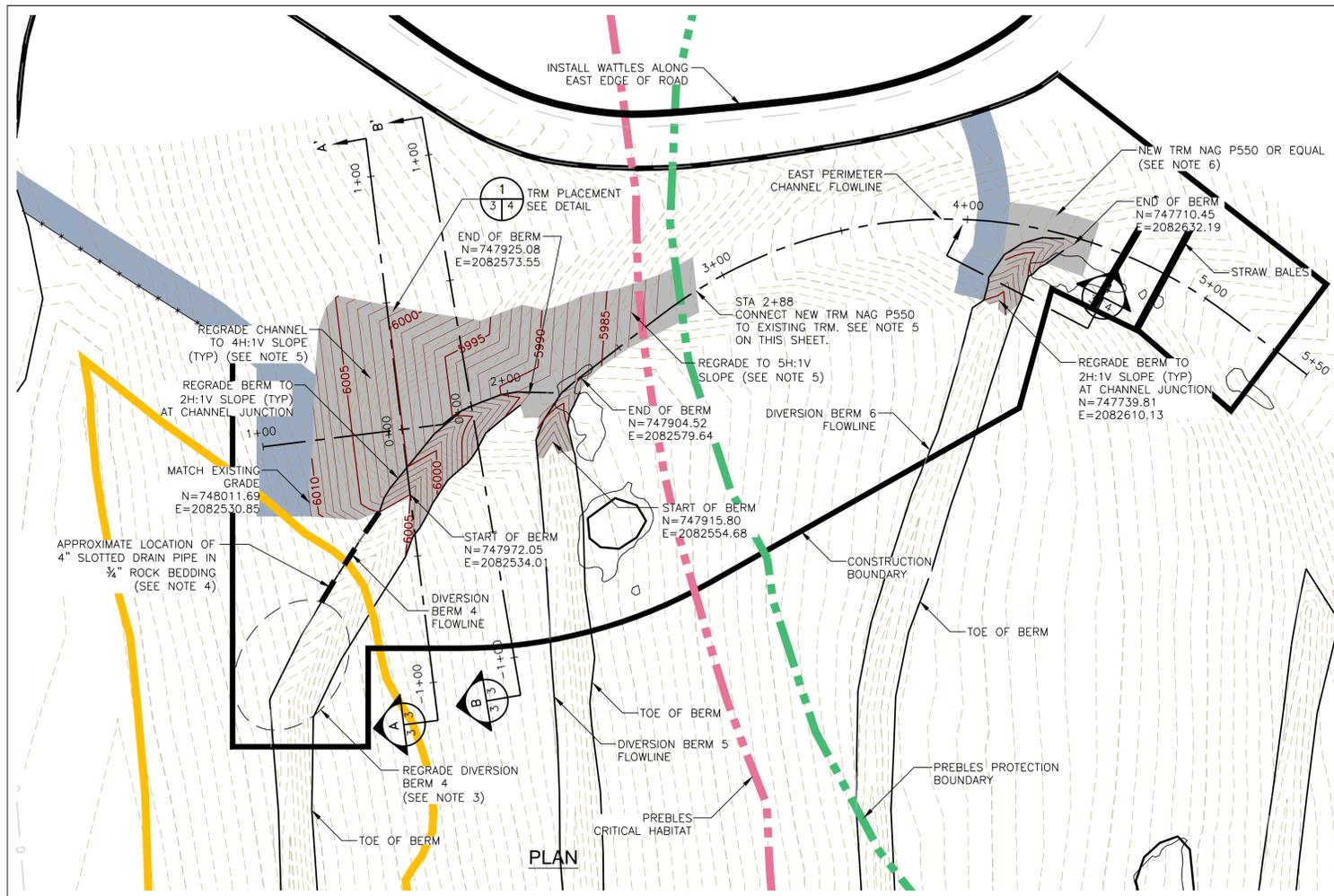


NOTES:

1. TOPOGRAPHY BASED ON 6/28/2013 SITE SURVEY.
2. WASTE BOUNDARY FROM .DWG FILE FROM ORIGINAL CONSTRUCTION DRAWINGS (FIGURE 3-1) BY EARTH TECH.
3. TRM NAG P550 TO BE REMOVED PRIOR TO EARTHWORK AND REPLACED FOLLOWING GRADING ACCEPTANCE BY THE CONTRACTOR.
4. SUBCONTRACTOR SHALL SCARIFY THE TOP 4"-6" OF THE FINISH GRADE AND DISC OR MIX IN COMPOST AT A RATE OF 50 TONS COMPOST/ACRE. USING CONTRACTOR PROVIDED SEED MIX, SUBCONTRACTOR SHALL BROADCAST SEED EVENLY THROUGHOUT ALL DISTURBED AREAS AT A RATE OF APPROXIMATELY 100 SEEDS/SQUARE FOOT AND HARROW OR RAKE SEED TO COVER SLIGHTLY (APPROXIMATELY 1/4 INCH DEPTH). SUBCONTRACTOR SHALL INSTALL FINAL EROSION CONTROLS (PROVIDED BY CONTRACTOR) PER CONTRACTOR DIRECTION.

FINAL DESIGN

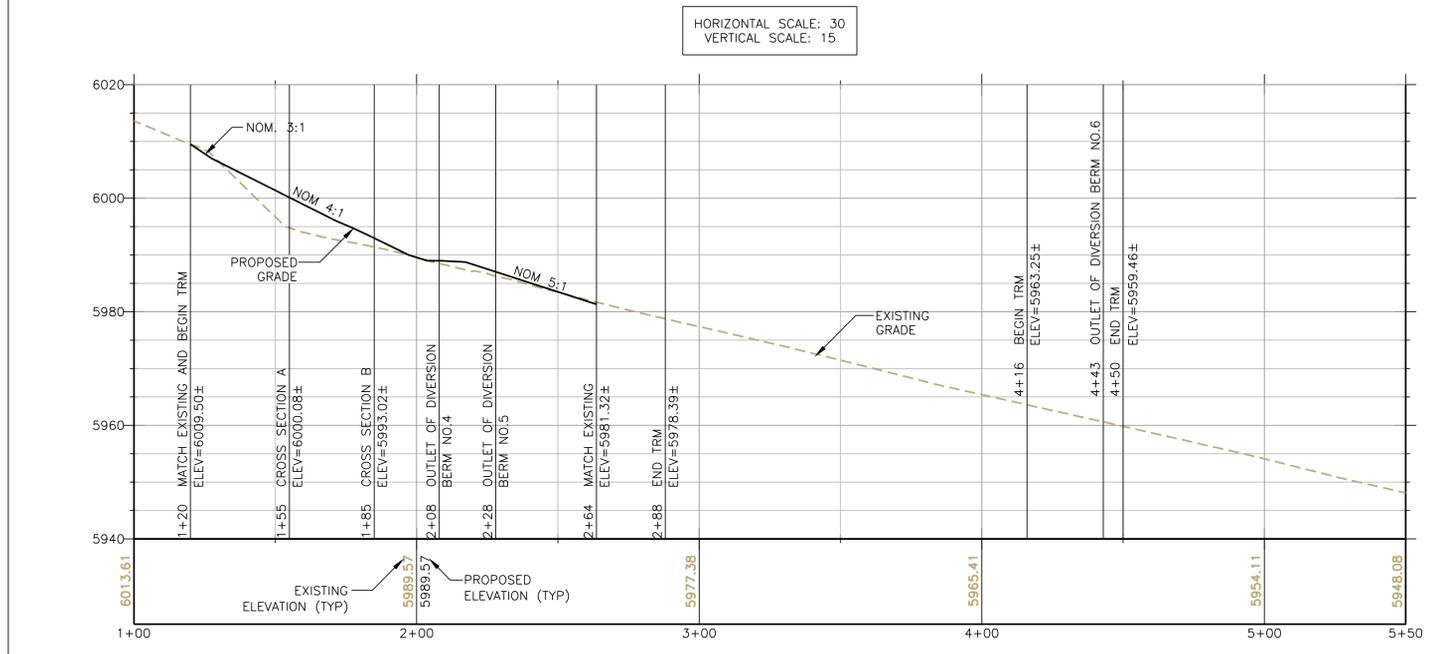
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REFERENCE TETRA TECH 3801 AUTUMNATION WAY SUITE 100 FORT COLLINS, CO 80504 PHONE: (970) 233-9900		PROJECT NO. LTS-111-0056-07-001H		SHEET 2 OF 4		DRAWING NO. S10849-S01-R00-D+



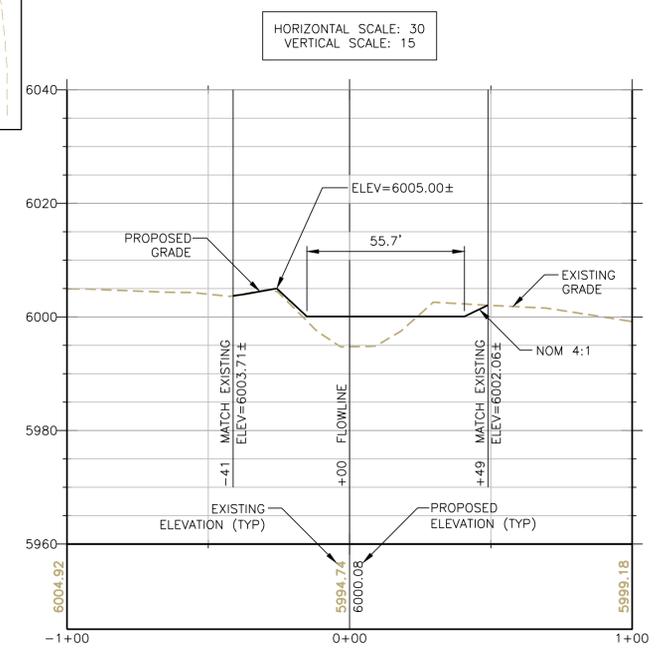
EARTHWORK QUANTITIES		
CUT	FILL	NET
87 CU. YDS.	308 CU. YDS	221 CU. YDS. <FILL>

NOTE: QUANTITIES ARE IN-PLACE AND DO NOT REFLECT SHRINK OR SWELL.

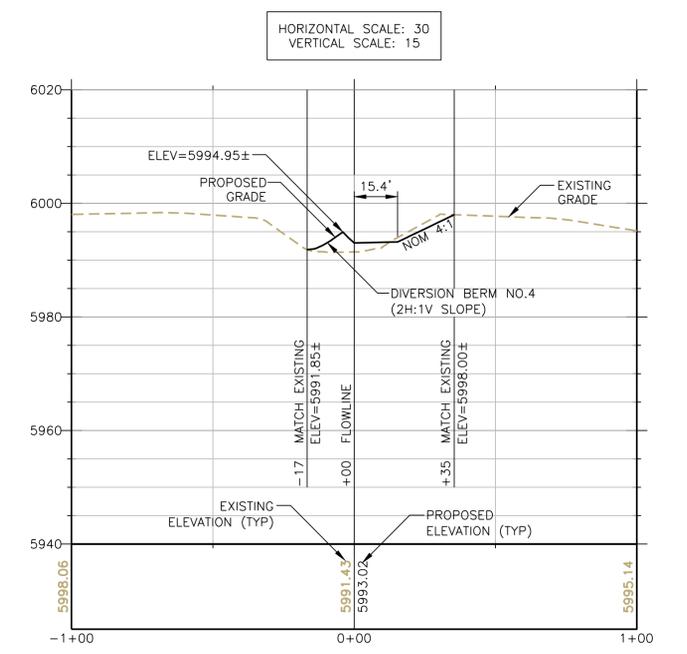
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 4. 4" SLOTTED DRAIN PIPE IN 3/4" ROCK BEDDING INSTALLED 10/3/13 TO PROVIDE POSITIVE DRAINAGE TO PREVENT PONDING IN SMALL SUBSIDENCE DEPRESSION CREATED BY LOCALIZED DISTRESS CRACKING AFTER HEAVY PRECIPITATION EVEN 9/9/13 THROUGH 9/16/13
 5. REGRADE HEADWALL AND SURROUNDING AREA TO SLOPES FLATTER THAN 3H:1V.
 6. TRM NAG P550 TO BE REMOVED PRIOR TO EARTHWORK AND REPLACED FOLLOWING GRADING ACCEPTANCE BY THE CONTRACTOR.
 7. THE HYDRAULIC CAPACITY OF THE EAST PERIMETER CHANNEL EXCEEDS THE COMBINED RUNOFF FOR THE 1,000 YEAR STORM EVENT OF DIVERSION BERMS 4,5,6, AND 7.



EAST PERIMETER CHANNEL FLOWLINE PROFILE



CROSS SECTION A

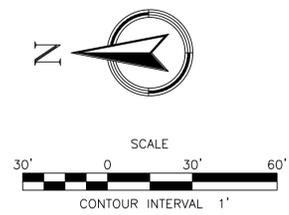
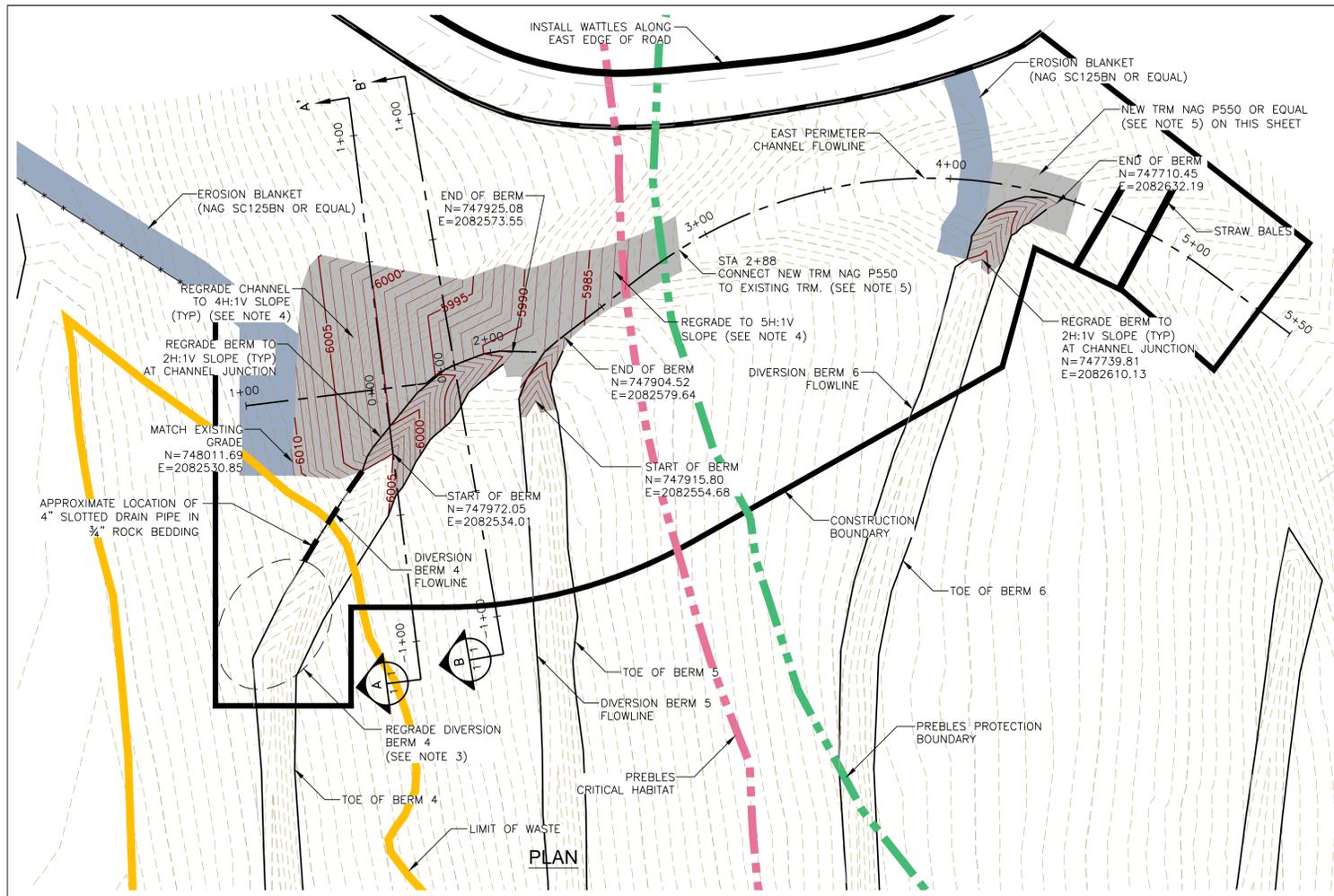


CROSS SECTION B

FINAL DESIGN

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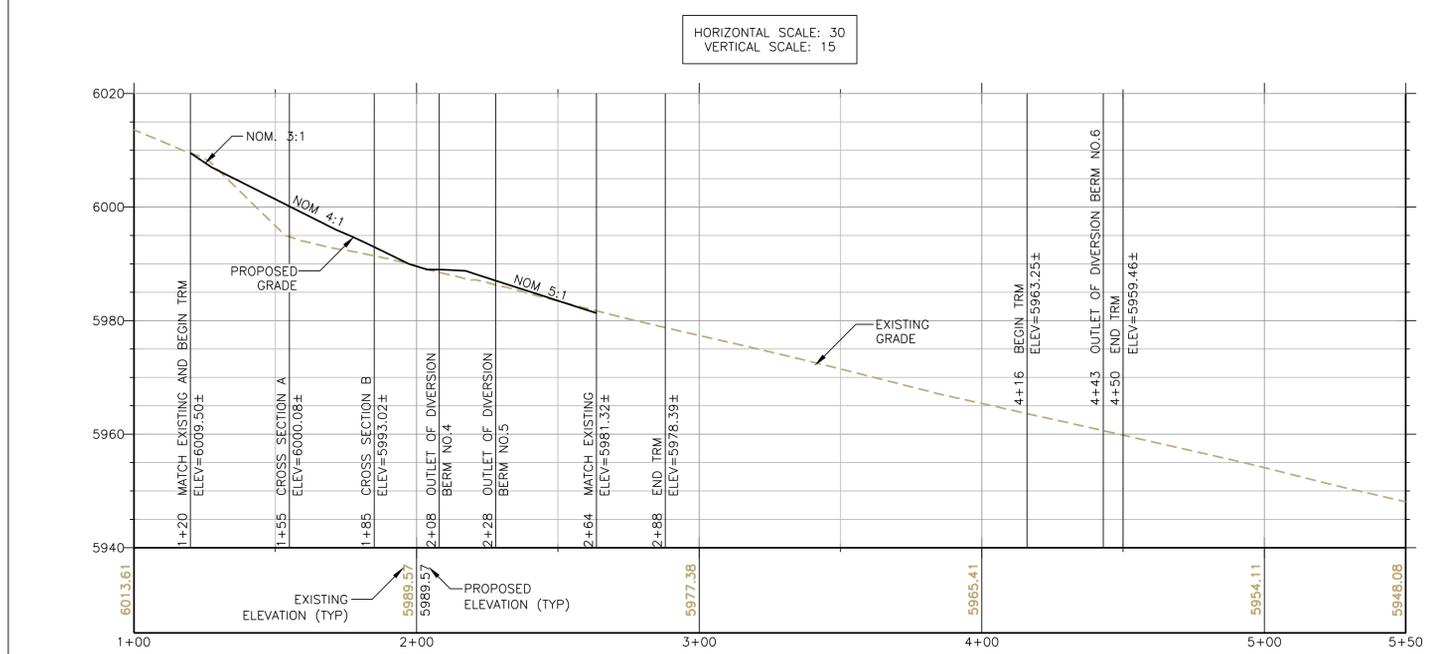
PROJECT LOCATION: **ROCKY FLATS SITE** **JEFFERSON COUNTY, CO.**						**ORIGINAL LANDFILL**
REFERENCE						**PLAN, PROFILE AND SECTIONS**
						PROJECT NO. **LTS-111-0056-07-001H** SH1 OF 4 DRAWING NO. **S10850-C01-ROO-D+**



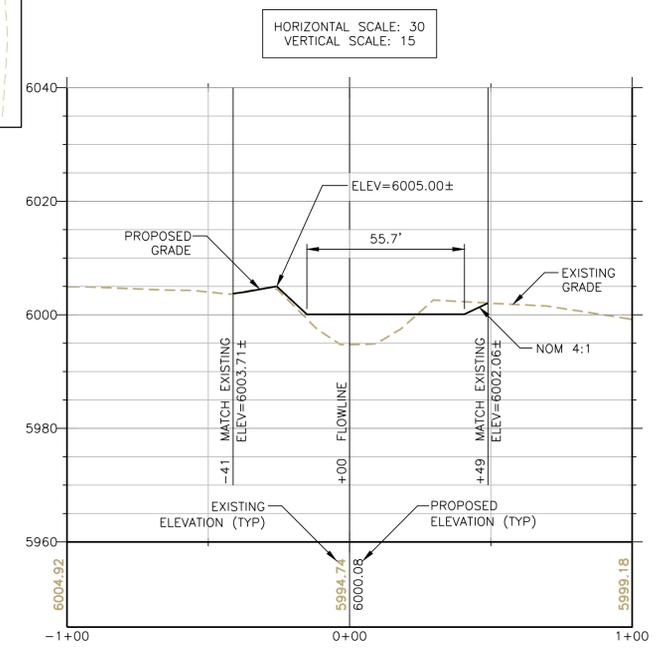
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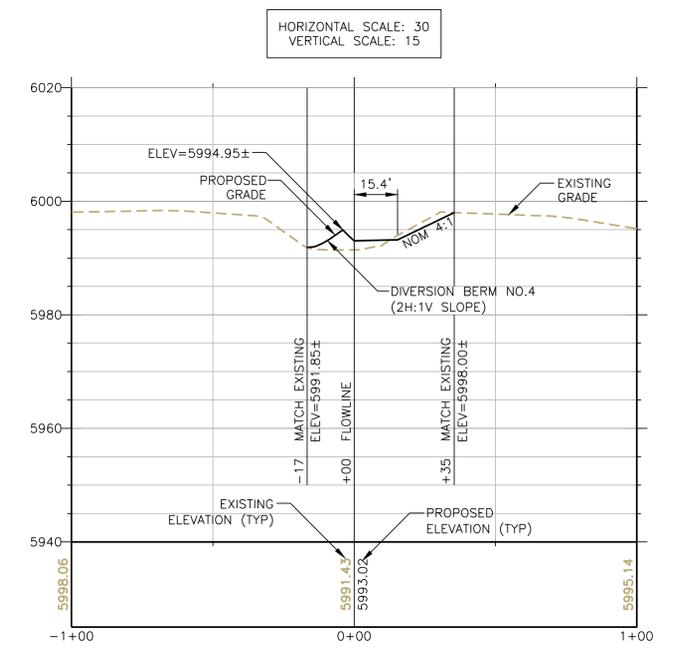
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EAST PERIMETER CHANNEL FLOWLINE PROFILE



CROSS SECTION A



CROSS SECTION B

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