ROCKY FLATS SITE
REGULATORY CONTACT RECORD

Purpose: Grading the Slump Area South of FC-4 and Former Building 991

Contact Record Approval Date: September 27, 2007

Site Contact(s) / Affiliation(s):
Scott Surovchak, DOE
John Boylan, S.M. Stoller
Rick DiSalvo, S.M. Stoller

Regulatory Contact(s) / Affiliation(s):
Carl Spreng / CDPHE

Discussion

The hillside slump south of the location of former Building 991 on the south side of Functional Channel (FC)-4, which began developing in 2006, needs to be regraded and seeded to stabilize the hillside and address worker safety and aesthetic concerns. The slumping is likely due to water saturation of the soils caused by disruption of the French drain underlying the hill and removal of the outfall associated with the drainage during closure. The hillside was constructed as part of the former Protected Area security fencing installation in the 1970s. The regrading is anticipated to make the topography of the area similar to that which existed prior to the hillside construction. Sentinel well 45605 is located within the slumping area; its casing is no longer vertical and the stress caused by the slumping is affecting its long-term serviceability. This well needs to be replaced after the grading work is completed. Other than the Sentinel well location, movement of the soils creating the slump does not affect the implementation of the remedy.

The excavation work will exceed the 3-foot-depth limit specified by the institutional controls (Rocky Flats Legacy Management Agreement [RFLMA], Attachment 2, Table 4, Institutional Control 2) and thus requires pre-approved procedures.

DOE, CDPHE, and Stoller staff informally consulted on August 30, 2007, on the regrading concept, and the attached S.M. Stoller Conceptual Design shows the grading location, depth of excavation, and placement of fill based on the outcome of those discussions. Note that Design Sheet 3 also shows the location of former Individual Hazardous Substance Site (IHSS) 154, the Pallet Burn Site, which is discussed in more detail below.

The regrading is projected to generate approximately 7,000 cubic yards of excess material. This soil will be spread at and adjacent to the former 903 Pad area (refer to Design Sheet 8), which will facilitate revegetation efforts in this area. The fill placement activity will conform with the applicable institutional controls, and the final elevation after fill placement and reseeding is expected to be slightly above the existing elevation. Erosion controls for the regrading excavation and fill activities will be employed in accordance with the Central Operable Unit (OU) Erosion Control Plan.

CDPHE approval for this work is requested before final design and procurement activities proceed. It is anticipated that the construction work will be completed in November 2007.

The objective of the institutional control is to maintain the current depth to subsurface contamination or contaminated structures. This control also results in achieving compliance with the CDPHE risk management policy of ensuring that residual risks to the site user are at or below 1×10^{-6}. Based on a review of the location of the regraded area, the limited aerial extent, and the minor change in depth to subsurface contamination, the regrading does not impact compliance with the risk management policy.

CDPHE has requested that the following information be included in contact records for soil excavation related to this institutional control that will not return soil to the preexisting grade:

1 - Provide information about any remaining subsurface structures in the vicinity so that the minimum cover assumption will not be violated (or state that there are none if that is the case).

There are no subsurface structures in the vicinity. The slump has been informally referred to as the "Building 991 slump" for ease of reference due to its proximity to the location of former Building 991. Portions of former Building 991 remain in the subsurface, but are located north of FC-4, well outside the hillside slump regrading activity area.

2 - Provide information about any former IHSSs/PACs or other known soil or groundwater contamination in the vicinity (or state that there is no known contamination).

The following IHSSs/Potential Areas of Concern (PACs) are in the vicinity of the hillside slump regrading activity area:

- IHSS 154 (PAC 900-154), Pallet Burn Site – Oil-contaminated pallets and other wood debris were burned in this area, which is located south of the slumping soils, just north of FC-5. The conceptual design drawing (Sheet 3) shows that the extent of regrading just touches the northern extent of IHSS 154, approximately between the southern end of Sections E and F (Sheets 6 and 7). Burning activities were conducted in 1965 and the area was removed sometime in the 1970s. Characterization of this IHSS in 2002, as part of IHSS Group 900-2, resulted in three of six sample locations with detectable levels of arsenic, and two of the three locations had arsenic above the wildlife refuge worker (WRW) soil action level specified in the Rocky Flats Cleanup Agreement (RFCA), both at depths greater than 4.5 feet below the surface.

  Detected arsenic concentrations in the three locations ranged from 15.3 to 55.1 milligrams per kilogram (mg/kg). The two sample concentrations above the WRW RFCA soil action level of 22.2 mg/kg were 24.1 and 55.1 mg/kg. Based on the RFCA Attachment 5 Subsurface Soil Risk Screen, soil removal was not required because of the depth of the samples with concentrations above the WRW RFCA soil action level and because the IHSS was not in a significant erosion area, as identified in RFCA Attachment 5. No Further Accelerated Action was approved by CDPHE in 2002.

  The proposed regrading may remove some soil adjacent to IHSS 154, but this would not significantly decrease the elevation of soils within IHSS 154. Prior to regrading, the

boundaries of IHSS 154 will be surveyed and marked. No excavation will take place inside the IHSS boundary.

- IHSS 192 (PAC 000-192), Antifreeze Discharge – On December 2 or 3, 1980, approximately 155 gallons of antifreeze solution, 25% ethylene glycol in water, were discharged from a brine chiller evaporator into a floor drain in former Building 708. The floor drain discharged into a buried culvert, which subsequently discharged into South Walnut Creek. The discharge was impounded in Pond B-1 and 5,000 gallons of water were flushed through the drainage system into Pond B-1. Based on the degradation model for ethylene glycol, it was predicted to reach undetectable levels in leachate and soil within 1 week of the discharge.

  IHSS 192 was part of OU 16, Low Priority Sites, and a No Action remedy for this IHSS was approved in the 1994 OU 16 Corrective Action Decision/Record of Decision.

- PAC 000-503, Solar Pond Water Spill Along Central Avenue – In 1994, a tanker truck transporting water from the Solar Evaporation Ponds to the former Building 374 storage tanks spilled approximately 35 gallons over a 0.5-mile stretch of asphalt on Central Avenue. The spilled water was cleaned up from the asphalt. No Further Accelerated Action was approved by CDPHE in 2002.

More detailed information on these PACs/IHSSs and the disposition of these areas is provided in the Historical Release Report, Appendix B of the Remedial Investigation/Feasibility Study Report.

3 - Resurvey any new surface established in subsurface soil, unless sufficient existing data is available to characterize the surface (or state that the excavated soil will be replaced and the original contours restored).

When completed, the new surface elevations will be consistent with the final design drawings for the regrading work. Final elevations will be surveyed and the resulting data will be used to update the Central OU topography maps.

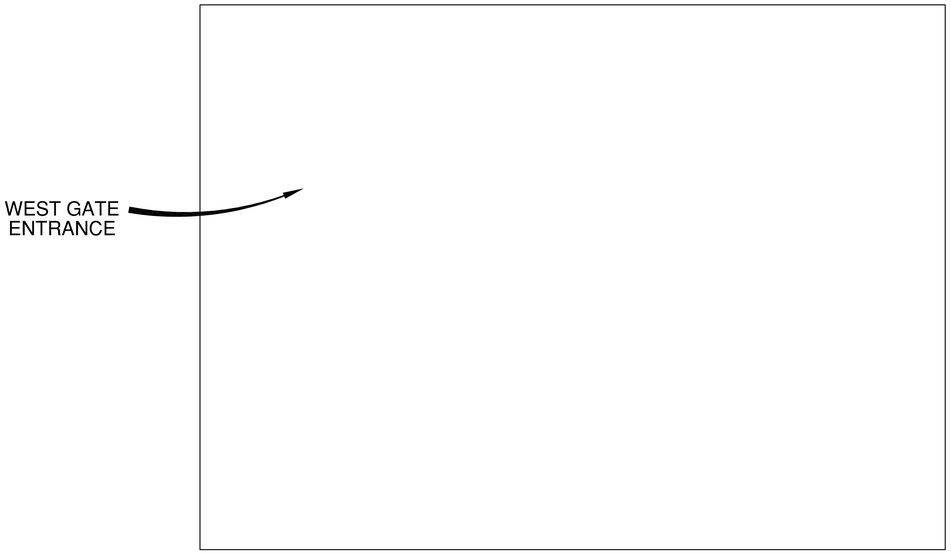
Resolution

Carl Spreng, CDPHE, approved the regrading work as described in this Contact Record.

Contact Record Prepared by: Rick DiSalvo

Distribution:
Carl Spreng, CDPHE
Scott Surovchak, DOE
Linda Kaiser, Stoller
Rocky Flats Contact Record
File

UNITED STATES
DEPARTMENT OF ENERGY
LEGACY MANAGEMENT
ROCKY FLATS SITE
BUILDING AREA 991 SLUMP REPAIR



SITE LOCATION MAP

INDEX OF DRAWINGS

SHEET	TITLE	DRAWING NO.
1	TITLE SHEET	S03433-R00-T01-D+
2	PROJECT SITE PLAN	S03434-R00-F01-D+
3	GRADING PLAN	S03435-R00-C01-D+
4	SECTIONS A AND B	S03436-R00-C02-D+
5	SECTIONS C AND D	S03437-R00-C03-D+
6	SECTIONS E AND F	S03438-R00-C04-D+
7	SECTIONS G AND H	S03439-R00-C05-D+
8	EROSION CONTROL PLAN	S03640-R00-C06-D+

ABBREVIATIONS

APPROX.	APPROXIMATE	HORIZ.	HORIZONTAL	SHT	SHEET
℄	CENTER LINE	INV	INVERT	SPPTS	SOLAR POND PLUME TREATMENT SYSTEM
DIA.	DIAMETER	MAX.	MAXIMUM	STA.	STATION
DOE	DEPARTMENT OF ENERGY	MIN.	MINIMUM	THK.	THICK
E	EASTING	MW	MONITORING WELL	TYP.	TYPICAL
EL. OR ELEV.	ELEVATION	N	NORTHING		
EXIST.	EXISTING	NA	NOT APPLICABLE		
		NIC	NOT IN CONTRACT		
		NTS	NOT TO SCALE		

DRAWING LEGEND

PLAN

- –T– –O– W– BURIED – TELEPHONE/OPTICAL/WATER
- –E– –G– IP– BURIED – ELECTRICAL/GAS LINES/ IRRIGATION PIPE
- RAILROAD TRACK
- WIRE FENCE
- CHAIN LINK FENCE
- SILT FENCE
- DRAINAGE DITCH/WATER LINE LIMITS
- EXISTING UNIMPROVED DIRT ROAD
- OVERHEAD ELECTRICAL LINE
- TREES/SHRUBS/BRUSH
- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROJECT ACCESS/HAUL ROUTE
- UTILITY POLE
- UNDERGROUND DRAINAGE CULVERT
- XXXX EXISTING MONITORING WELL
- 36 HIGHWAY
- SLOPE/FLOW ARROW
- TOP OF SLOPE
- SURVEY CONTROL POINT
- BUILDING/STRUCTURE
- EROSION CONTROL WATTLES

SECTION

- COMPACTED SOIL
- UNDISTURBED SOIL
- SCARIFIED SUBGRADE
- GRAVEL OR DRAIN ROCK
- REVEGETATION

DETAIL SYMBOL

1 — DETAIL NUMBER/SECTION LETTER
2 3 — 2: SHEET ON WHICH DETAIL/SECTION IS TAKEN FROM; 3: SHEET ON WHICH DETAIL/SECTION IS DRAWN

REVISION NO.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY	PROJECT A/E	APPROVAL

U.S. DEPARTMENT OF ENERGY
GRAND JUNCTION, COLORADO

Work Performed by
S.M. Stoller Corporation
Under DOE Contract
No. DE-AC01-02GJ79491

PROJECT LOCATION
ROCKY FLATS SITE
GOLDEN, COLORADO

REFERENCE

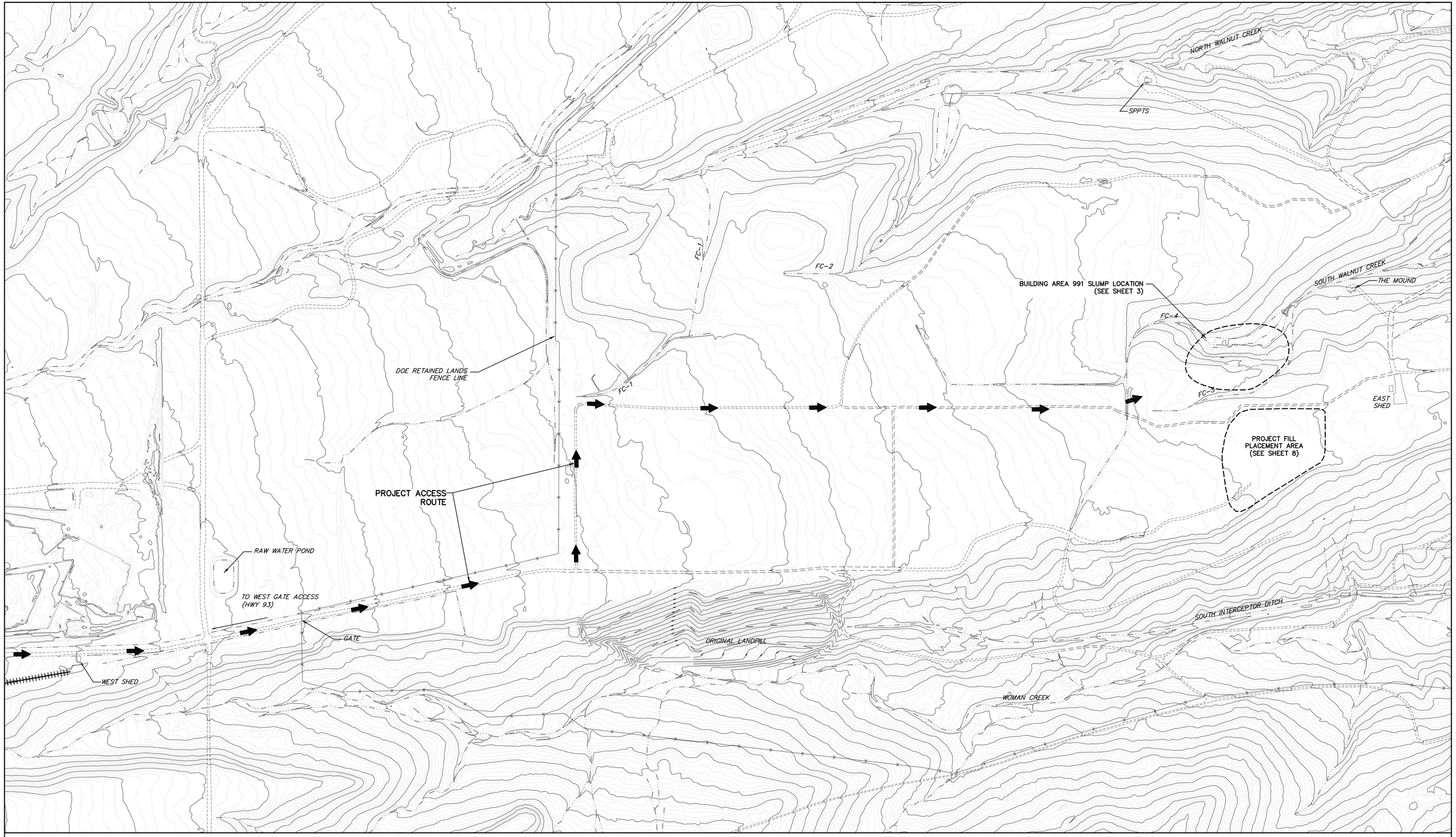
APPROVALS

		DATE
DRAWN BY:	T. BOEHLER	-/-/07
ENGINEER	J. KIENHOLZ	-/-/07
PROJECT ENGINEER		
APPROVED BY:	M. MADRIL	-/-/07
PROJECT MANAGER	L. KAISER	-/-/07
DOE CONCURRENCE	(SEE RECORD)	-/-/07

BUILDING AREA 991 SLUMP REPAIR

TITLE SHEET

PROJECT NO. LTS-111-0056-13-001D
SHT. 1 OF 8
DRAWING NO. S03433-R00-T01-D+



DITCH/CHANNEL/CREEK
BOUNDARY FENCE
OVERHEAD ELECTRIC LINE

N

SCALE IN FEET
300 150 0 300 600 900

SITE PLAN

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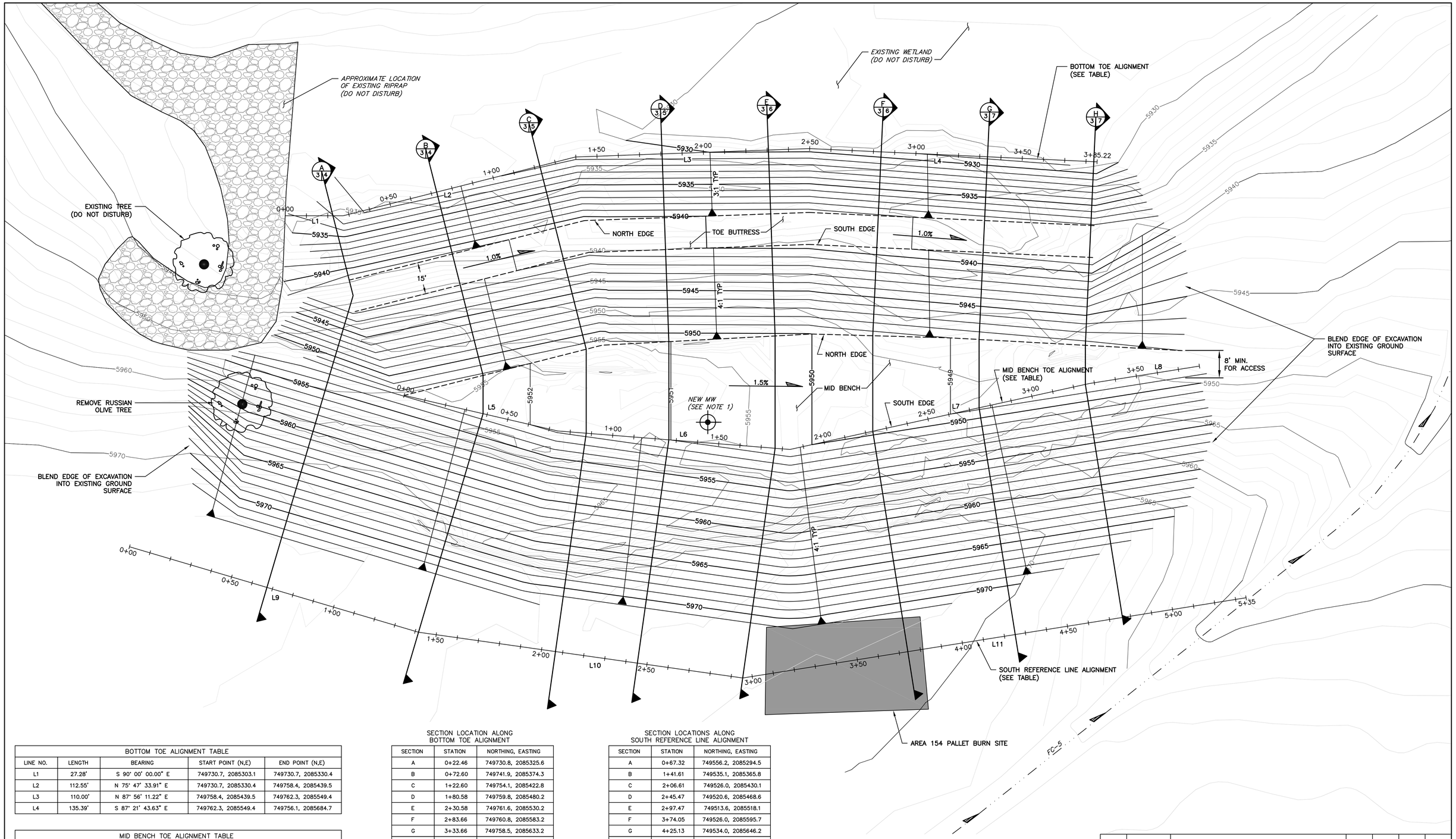
PROJECT ENGINEER		
APPROVED BY:	M. MADRIL	-/-/07
PROJECT MANAGER	L. KAISER	-/-/07
DOE CONCURRENCE	(SEE RECORD)	-/-/07

BUILDING AREA 991 SLUMP REPAIR

SITE PLAN

PROJECT NO. LTS-111-0056-13-001D
SHT. 2 OF 8
DRAWING NO. S03434-R00-F01-D+



BOTTOM TOE ALIGNMENT TABLE

LINE NO.	LENGTH	BEARING	START POINT (N,E)	END POINT (N,E)
L1	27.28'	S 90° 00' 00.00" E	749730.7, 2085303.1	749730.7, 2085330.4
L2	112.55'	N 75° 47' 33.91" E	749730.7, 2085330.4	749758.4, 2085439.5
L3	110.00'	N 87° 56' 11.22" E	749758.4, 2085439.5	749762.3, 2085549.4
L4	135.39'	S 87° 21' 43.63" E	749762.3, 2085549.4	749756.1, 2085684.7

MID BENCH TOE ALIGNMENT TABLE

LINE NO.	LENGTH	BEARING	START POINT (N,E)	END POINT (N,E)
L5	74.01'	S 76° 57' 52.83" E	749646.4, 2085359.0	749629.7, 2085431.1
L6	109.59'	S 85° 26' 32.55" E	749629.7, 2085431.1	749621.0, 2085540.4
L7	143.98'	N 77° 34' 21.09" E	749621.0, 2085540.4	749651.9, 2085681.0
L8	52.42'	N 81° 00' 22.16" E	749651.9, 2085681.0	749660.1, 2085732.7

SOUTH REFERENCE LINE ALIGNMENT TABLE

LINE NO.	LENGTH	BEARING	START POINT (N,E)	END POINT (N,E)
L9	141.61'	S 73° 31' 51.77" E	749575.2, 2085230.0	749535.1, 2085365.8
L10	153.86'	S 81° 58' 41.00" E	749535.1, 2085365.8	749513.6, 2085518.1
L11	239.53'	N 80° 56' 59.56" E	749513.6, 2085518.1	749551.3, 2085754.7

SECTION LOCATION ALONG BOTTOM TOE ALIGNMENT

SECTION	STATION	NORTHING, EASTING
A	0+22.46	749730.8, 2085325.6
B	0+72.60	749741.9, 2085374.3
C	1+22.60	749754.1, 2085422.8
D	1+80.58	749759.8, 2085480.2
E	2+30.58	749761.6, 2085530.2
F	2+83.66	749760.8, 2085583.2
G	3+33.66	749758.5, 2085633.2
H	3+83.66	749756.2, 2085683.1

SECTION LOCATION ALONG MID BENCH TOE ALIGNMENT

SECTION	STATION	NORTHING, EASTING
A	–	–
B	0+38.10	749637.8, 2085396.1
C	0+87.54	749628.6, 2085444.6
D	1+26.47	749625.5, 2085483.4
E	1+76.56	749621.5, 2085533.3
F	2+23.42	749629.5, 2085579.3
G	2+74.59	749640.5, 2085629.2
H	3+25.72	749651.5, 2085679.2

SECTION LOCATIONS ALONG SOUTH REFERENCE LINE ALIGNMENT

SECTION	STATION	NORTHING, EASTING
A	0+67.32	749556.2, 2085294.5
B	1+41.61	749535.1, 2085365.8
C	2+06.61	749526.0, 2085430.1
D	2+45.47	749520.6, 2085468.6
E	2+97.47	749513.6, 2085518.1
F	3+74.05	749526.0, 2085595.7
G	4+25.13	749534.0, 2085646.2
H	4+76.17	749542.0, 2085696.6

NOTE:
1) NEW MONITORING WELL TO REPLACE THE MONITORING WELL DESTROYED DURING THE SLUMP TO BE INSTALLED BY OTHERS.

N

GRADING PLAN

SCALE IN FEET
20 10 0 20 40 60

REVISION NO.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY	PROJECT A/E	APPROVAL

U.S. DEPARTMENT OF ENERGY
GRAND JUNCTION, COLORADO

Work Performed by
S.M. Stoller Corporation
Under DOE Contract
No. DE-AC01-02GJ79491

PROJECT LOCATION
ROCKY FLATS SITE
GOLDEN, COLORADO

REFERENCE

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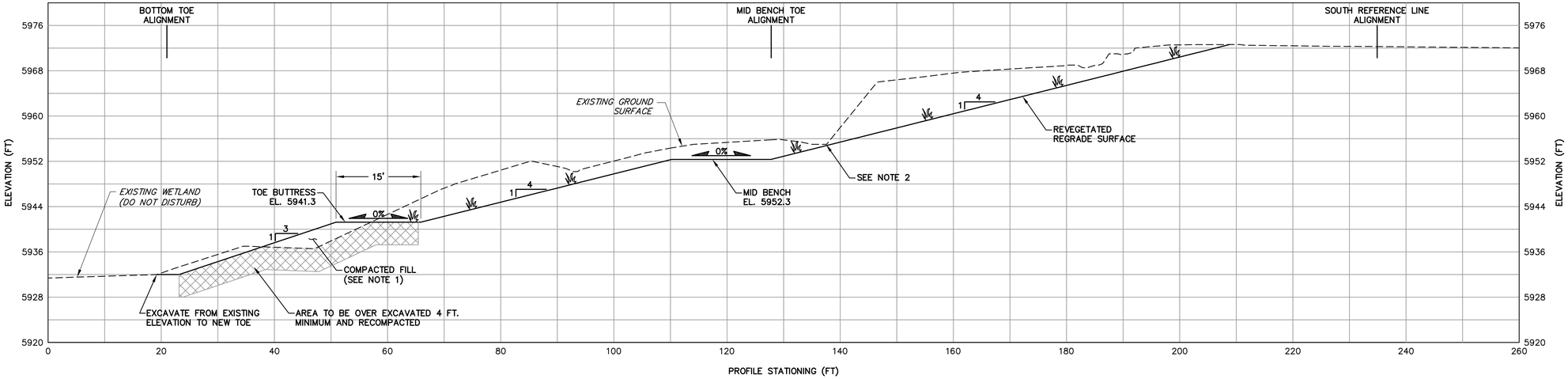
ENGINEER	J. KIENHOLZ	-/-/07
PROJECT ENGINEER		
APPROVED BY	M. MADRIL	-/-/07
PROJECT MANAGER	L. KAISER	-/-/07
DOE CONCURRENCE	(SEE RECORD)	-/-/07

BUILDING AREA 991 SLUMP REPAIR

GRADING PLAN

PROJECT NO. LTS-111-0056-13-001D
DRAWING NO. S03435-R00-C001-D+
SHT. 3 OF 8



B 3|4 SECTION

SCALE: HORIZ: 1" = 10'
VERT: 1" = 10'

A 3|4 SECTION

SCALE: HORIZ: 1" = 10'
VERT: 1" = 10'

NOTE:

1) IN FILL AREAS, SCARIFY A MINIMUM 12–INCH DEPTH, WORK THE SCARIFIED MATERIAL TO A UNIFORM CONDITION AND MOISTURE CONDITION, AND COMPACT WITH A MINIMUM OF THREE PASSES WITH SHEEP'S FOOT COMPACTION EQUIPMENT.

2) EXCAVATE AND FILL LARGE SUBSIDENCE CRACKS PRIOR TO FILL PLACEMENT.

3) SPREAD FILL IN 12–INCH LIFTS (MAXIMUM).

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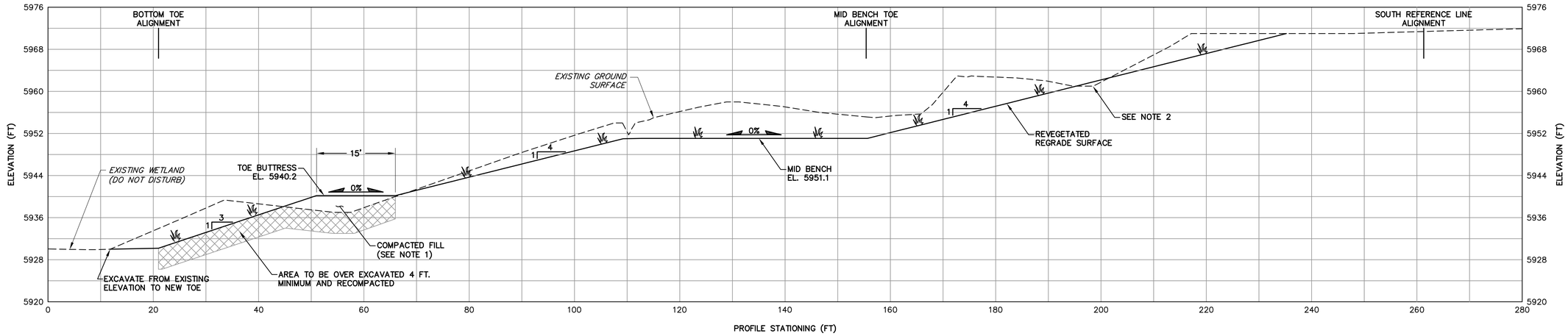
PROJECT MANAGER	L. KAISER	–/–/07
DOE CONCURRENCE	(SEE RECORD)	–/–/07

BUILDING AREA 991 SLUMP REPAIR

SECTIONS A AND B

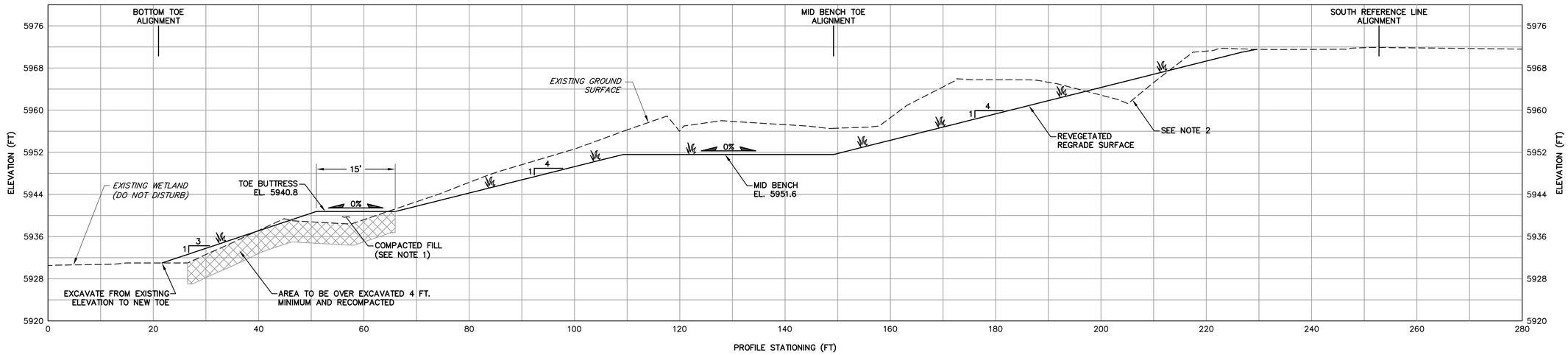
PROJECT NO. LTS–111–0056–13–001D
SHT. 4 OF 8
DRAWING NO. S03436–R00–C002–D+



D / 3 5

SECTION

SCALE: HORIZ: 1" = 10'
VERT: 1" = 10'



C / 3 5

SECTION

SCALE: HORIZ: 1" = 10'
VERT: 1" = 10'

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2) EXCAVATE AND FILL LARGE SUBSIDENCE CRACKS PRIOR TO FILL PLACEMENT.

3) SPREAD FILL IN 12-INCH LIFTS (MAXIMUM).

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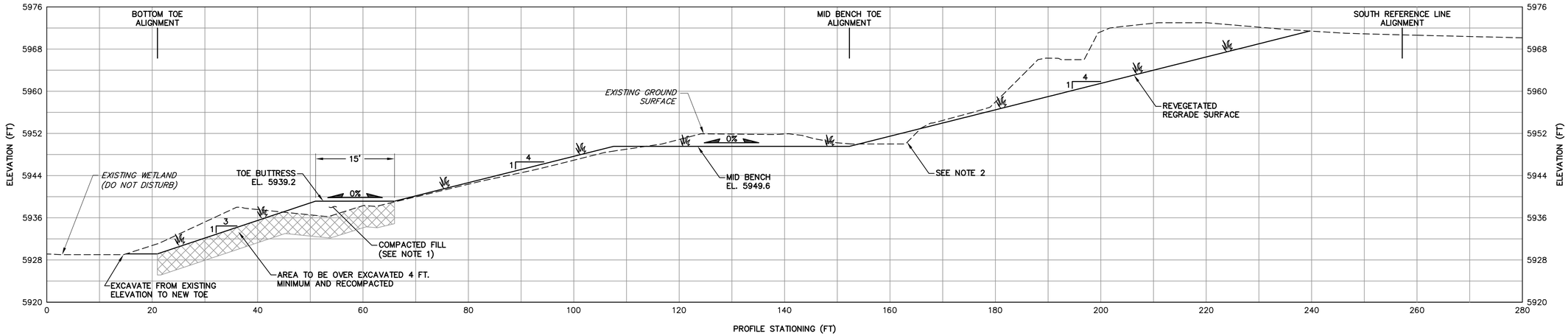
PROJECT ENGINEER:		
APPROVED BY:	M. MADRIL	-/-/07
PROJECT MANAGER:	L. KAISER	-/-/07
DOE CONCURRENCE:	(SEE RECORD)	-/-/07

BUILDING AREA 991 SLUMP REPAIR

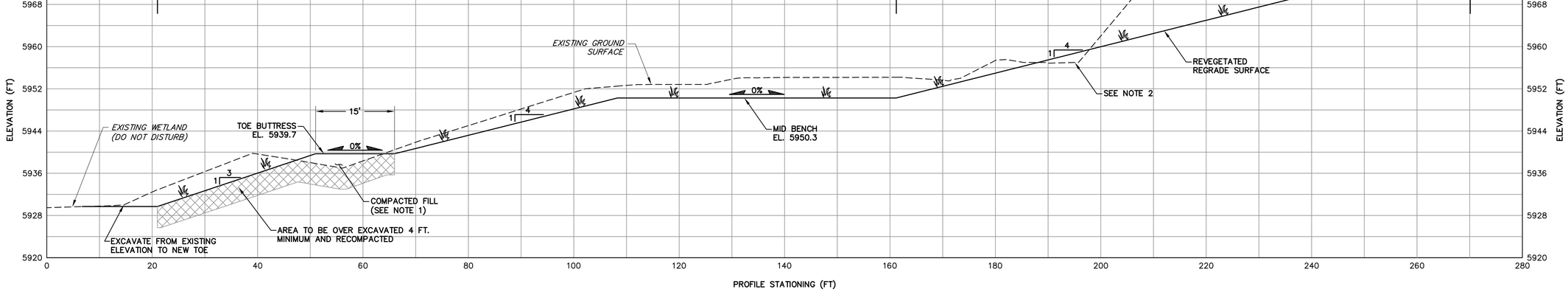
SECTIONS C AND D

PROJECT NO. LTS-111-0056-13-001D
DRAWING NO. S03437-R00-C003-D+
SHT. 5 OF 8



F/3|6 SECTION

SCALE: HORIZ: 1" = 10'
VERT: 1" = 10'



E/3|6 SECTION

SCALE: HORIZ: 1" = 10'
VERT: 1" = 10'

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2) EXCAVATE AND FILL LARGE SUBSIDENCE CRACKS PRIOR TO FILL PLACEMENT.

3) SPREAD FILL IN 12-INCH LIFTS (MAXIMUM).

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U.S. DEPARTMENT OF ENERGY
GRAND JUNCTION, COLORADO

Work Performed by
S.M. Stoller Corporation
Under DOE Contract
No. DE-AC01-02GJ79491

PROJECT LOCATION
ROCKY FLATS SITE
GOLDEN, COLORADO

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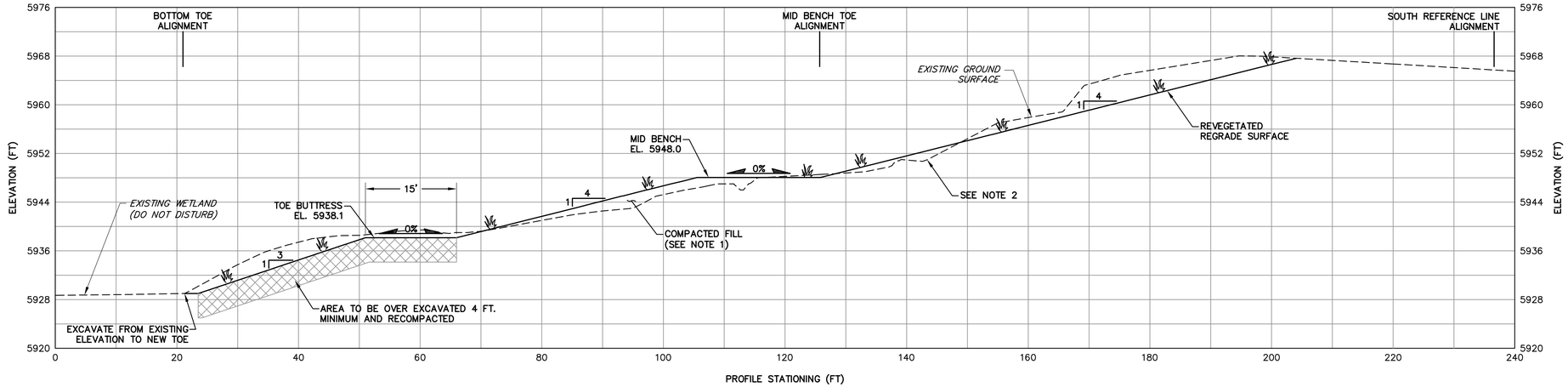
APPROVALS		
DRAWN BY: T. BOEHLER	DATE: -/-/07	
ENGINEER: J. KIENHOLZ	-/-/07	
PROJECT ENGINEER:		
APPROVED BY: M. MADRIL	-/-/07	
PROJECT MANAGER: L. KAISER	-/-/07	
DOE CONCURRENCE: (SEE RECORD)	-/-/07	

BUILDING AREA 991 SLUMP REPAIR

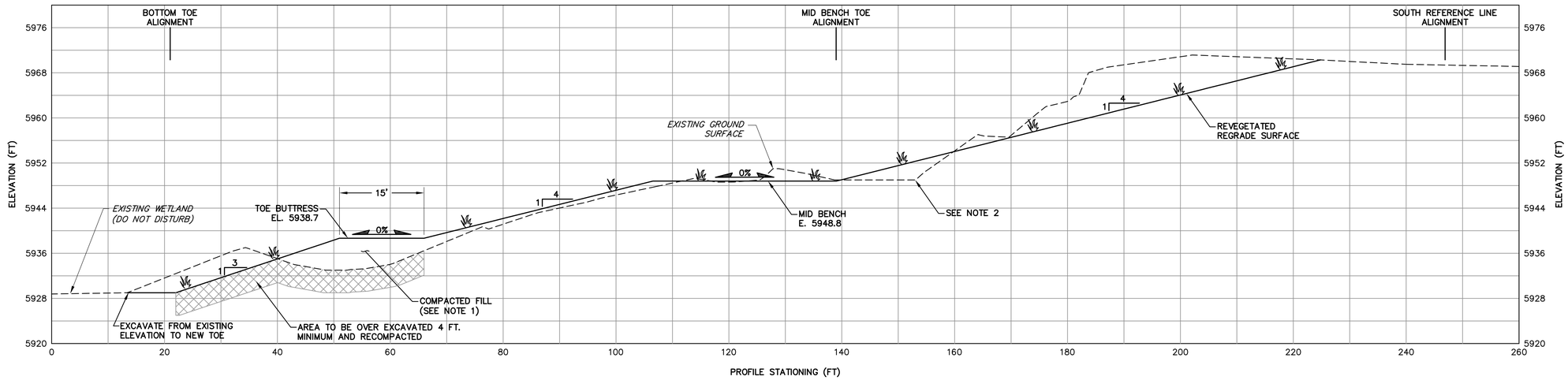
SECTIONS E AND F

PROJECT NO. LTS-111-0056-13-001D
SHT. 6 OF 8
DRAWING NO. S03438-R00-C004-D+



H 3|7 SECTION

SCALE: HORIZ: 1" = 10'
VERT: 1" = 10'



G 3|7 SECTION

SCALE: HORIZ: 1" = 10'
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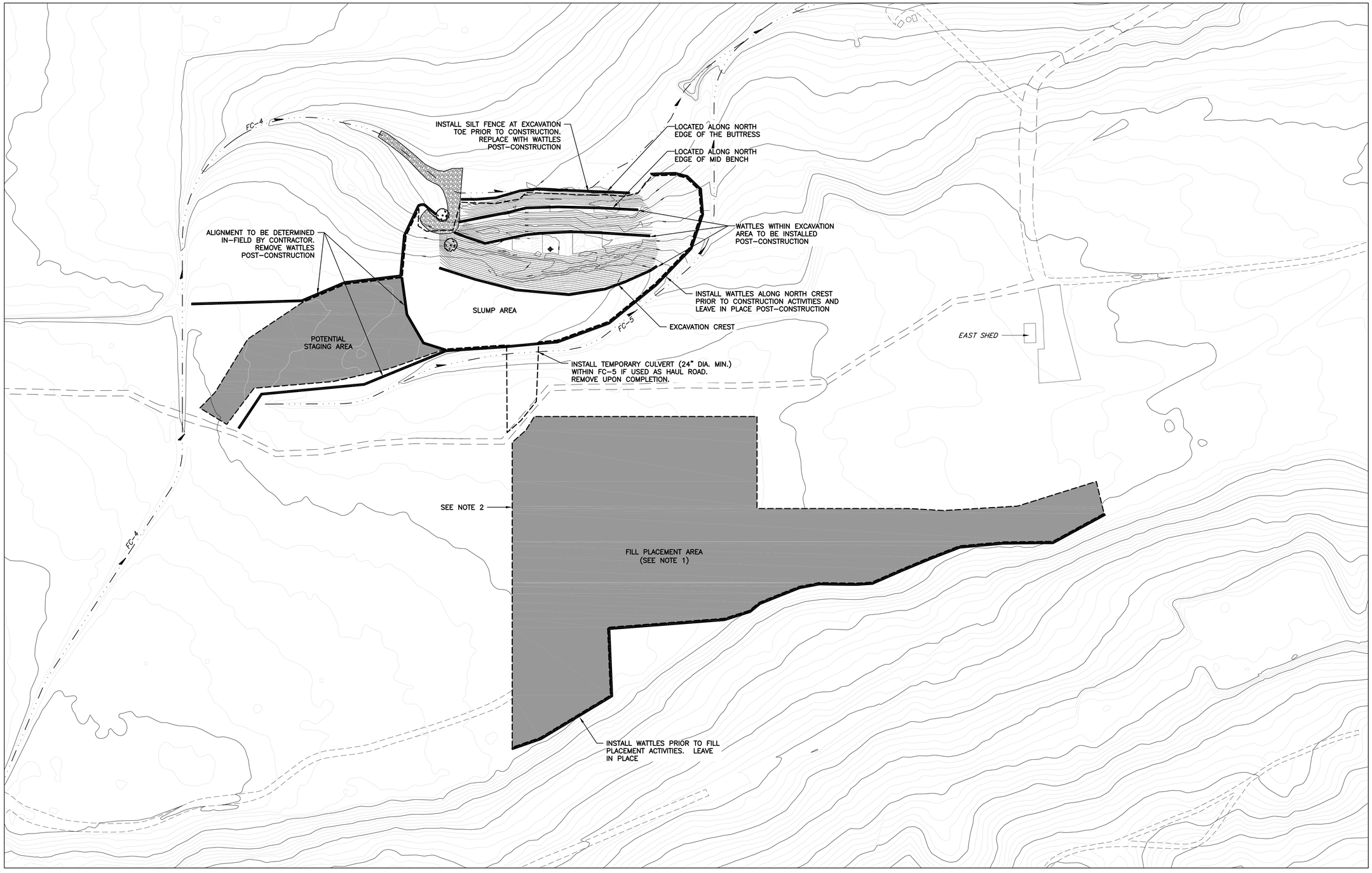
PROJECT MANAGER: L. KAISER	-/-/07
DOE CONCURRENCE: (SEE RECORD)	-/-/07

BUILDING AREA 991 SLUMP REPAIR

SECTIONS G AND H

PROJECT NO. LTS-111-0056-13-001D
DRAWING NO. S03439-R00-C005-D+
SHT. 7 OF 8



NOTE:

1) SPREAD FILL MATERIAL GENERATED FROM AREA 991 EXCAVATION IN ONE, SIX-INCH THICK LAYER AND REVEGETATE. ACTUAL AREA MAY VARY DEPENDING ON FILL GENERATED FROM EXCAVATION.

2) CONTRACTOR TO STAKE PERIMETER OF FILL PLACEMENT AREA PRIOR TO CONSTRUCTION ACTIVITIES.

3) INSTALL WATTLES AND SILT FENCE AS DIRECTED BY THE CONTRACTOR AND PER THE EROSION CONTROL PLAN FOR ROCKY FLATS CENTRAL OPERABLE UNIT DATED 4/26/07.

N

GRADING PLAN

SCALE IN FEET

100 50 0 100 200 300

REVISION NO.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY	PROJECT A/E	APPROVAL

U.S. DEPARTMENT OF ENERGY
GRAND JUNCTION, COLORADO

Work Performed by
S.M. Stoller Corporation
Under DOE Contract
No. DE-AC01-02GJ79491

PROJECT LOCATION
ROCKY FLATS SITE
GOLDEN, COLORADO

REFERENCE

APPROVALS

		DATE
DRAWN BY:	T. BOEHLER	-/-/07
ENGINEER	J. KIENHOLZ	-/-/07
PROJECT ENGINEER		
APPROVED BY:	M. MADRIL	-/-/07
PROJECT MANAGER	L. KAISER	-/-/07
DOE CONCURRENCE	(SEE RECORD)	-/-/07

BUILDING AREA 991 SLUMP REPAIR

EROSION CONTROL PLAN

PROJECT NO. LTS-111-0056-13-001D
SHT. 8 OF 8
DRAWING NO. S03640-R00-C006-D+