I. Introduction

I.A. This document provides a site and secure cell specific filling plan for Secure Cell #3 and is applicable to the filling of Cell #3 from commissioning until the waste reaches an elevation two feet below the nominal crest elevation of 4892 feet above sea level (fasl).

I.B. Filling above two feet below the crest elevation will be covered in a filling plan that will be submitted to the Department for review 45 days before filling above two feet below the crest elevation occurs. Placement of waste above two feet below the crest will not commence prior to approval of the Department of the amended filling plan.

II. Filling Plan Sequence

Generally Cell 3 will be filled in the north end first and then in the south end. A temporary separation berm will be used to segregate contaminated (C) storm water in the northern half of the cell from the uncontaminated (UC) storm water in the southern half of the cell. The temporary berm has been sized to contain a 1000 year 24 hour storm (8.2 inch storm event). Once filling in northern half of the cell is completed the temporary berm will be removed to allow filling the remainder of the cell. The sequence will be conducted as described below and shown in the Filling Plan Sequence Drawings of this attachment.

II.A. Phase 1

The north end of the cell will be filled in horizontal lifts, starting from the south end of the fill area proceeding towards the slope on the north end of the cell, as shown in Drawing 1. Filling will be carried out to 4884.6 fasl on the east side and 4883.6 on the west side as shown in Drawing 2.

II.B. Phase 2

The temporary divider berm will be removed to provide access to the south end of the cell as shown in Drawing 3.

II.C. Phase 3

The south end of the cell will be filled in horizontal lifts that cover the remainder of the cell floor, as shown in Drawing 4. A temporary sump will be maintained on the waste surface to assist in pumping out storm water during this phase. The sump will be maintained at least 200 feet away from the toe of the Phase 1 fill in order to prevent saturation of the slope.

II.D. Phase 4

Once the south end of the cell has been filled to 4883.6 fasl the waste surface will be graded to drain to the low point left in the Phase 1 fill. As filling progresses the sump will be filled to elevation 4884.6 fasl and cell will be filled to a maximum elevation of 4890.6 fasl, pending further requirements covered under a final filling plan. The maximum extent of filling covered under this filling plan is shown in Drawing 5.

III. Operational Requirements

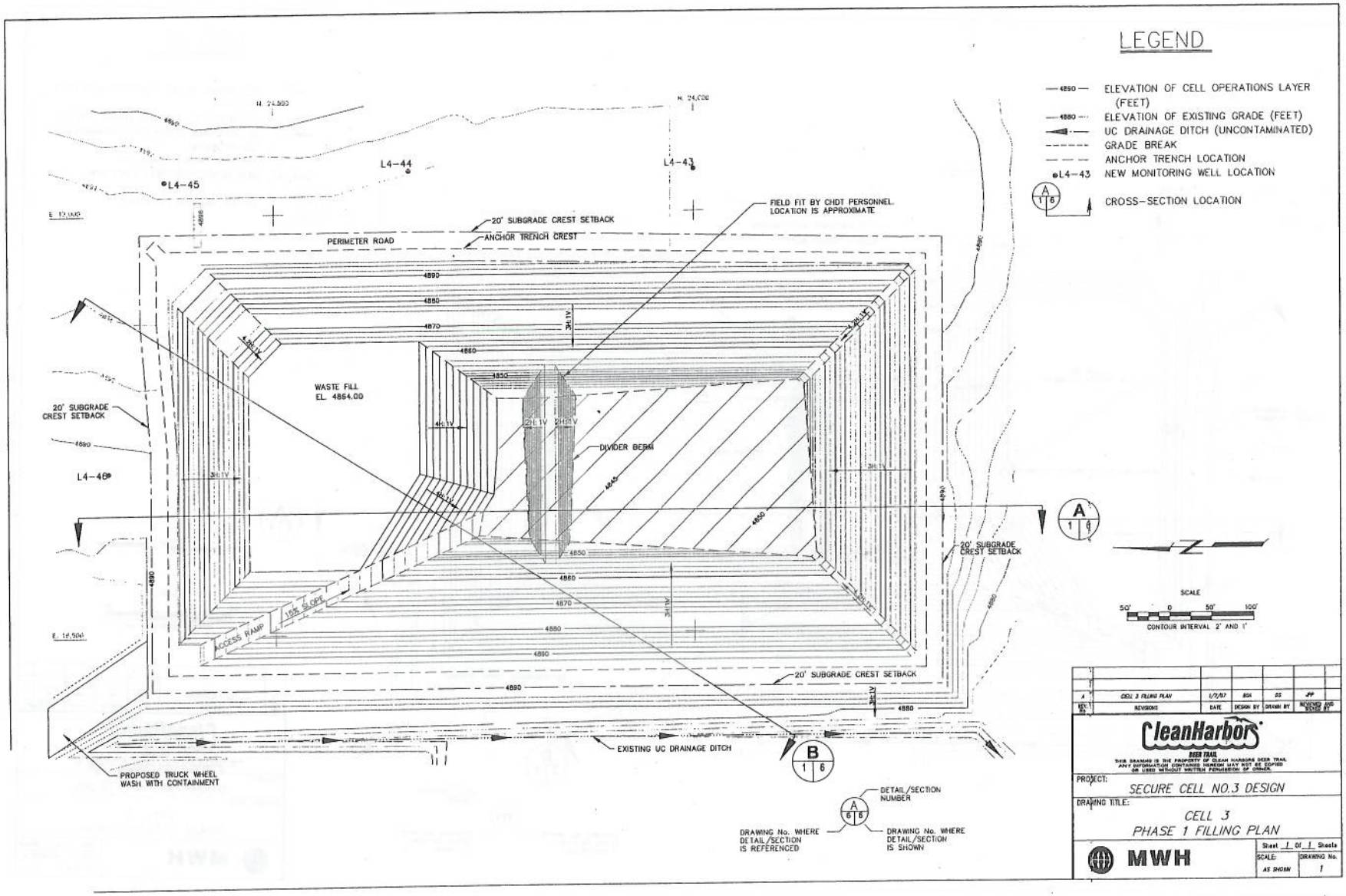
III.A. The types of waste placed in the landfill will conform to the list presented in Permit Condition VI.E.3.

III.B. Waste will be placed in compliance with Permit Condition VI.E.9. Waste will be placed in each lift, starting from the working edge of the waste placement area and working back to cell side slope. Each succeeding lift will be set back a distance equal to four times the lift thickness in order to create a 4H:1V overall slope on the working face of the placed waste.

III.C. Waste will be compacted in place using a bulldozer, compactor, or other suitable heavy equipment meeting the specification of Permit Condition VI.E.9.a.

III.D. Daily cover will be placed over the waste as specified in Permit Condition VI.E.4.

III.E. Delivery and placement of wastes will cease as specified in Permit Condition VI.E.8. No waste will be placed about the crest of the cell during the operations covered by this filling plan.


LEGEND
4890 ELEVATION OF CELL OPERATIONS LAYER (FEET)
4880 ELEVATION OF EXISTING GRADE (FEET)
UC DRAINAGE DITCH (UNCONTAMINATED)
GRADE BREAK
ANCHOR TRENCH LOCATION
L4-43 NEW MONITORING WELL LOCATION
CROSS-SECTION LOCATION
L4-44
L4-43
L4-45
L4-46
20' SUBGRADE CREST SETBACK
ANCHOR TRENCH CREST
PERIMETER ROAD
FIELD FIT BY CHDT PERSONNEL. LOCATION IS APPROXIMATE
WASTE FILL EL. 4864.00
DIVIDER BERM
ACCESS RAMP
15% SLOPE
EXISTING UC DRAINAGE DITCH
PROPOSED TRUCK WHEEL WASH WITH CONTAINMENT
DETAIL/SECTION NUMBER
DRAWING No. WHERE DETAIL/SECTION IS REFERENCED
DRAWING No. WHERE DETAIL/SECTION IS SHOWN
SCALE
50' 0 50' 100'
CONTOUR INTERVAL 2' AND 1'
CELL 3 FILLING PLAN
REVISIONS
DATE
DESIGN BY
DRAWN BY
REVIEWED AND SIGNED BY
CleanHarbors
DEER TRAIL
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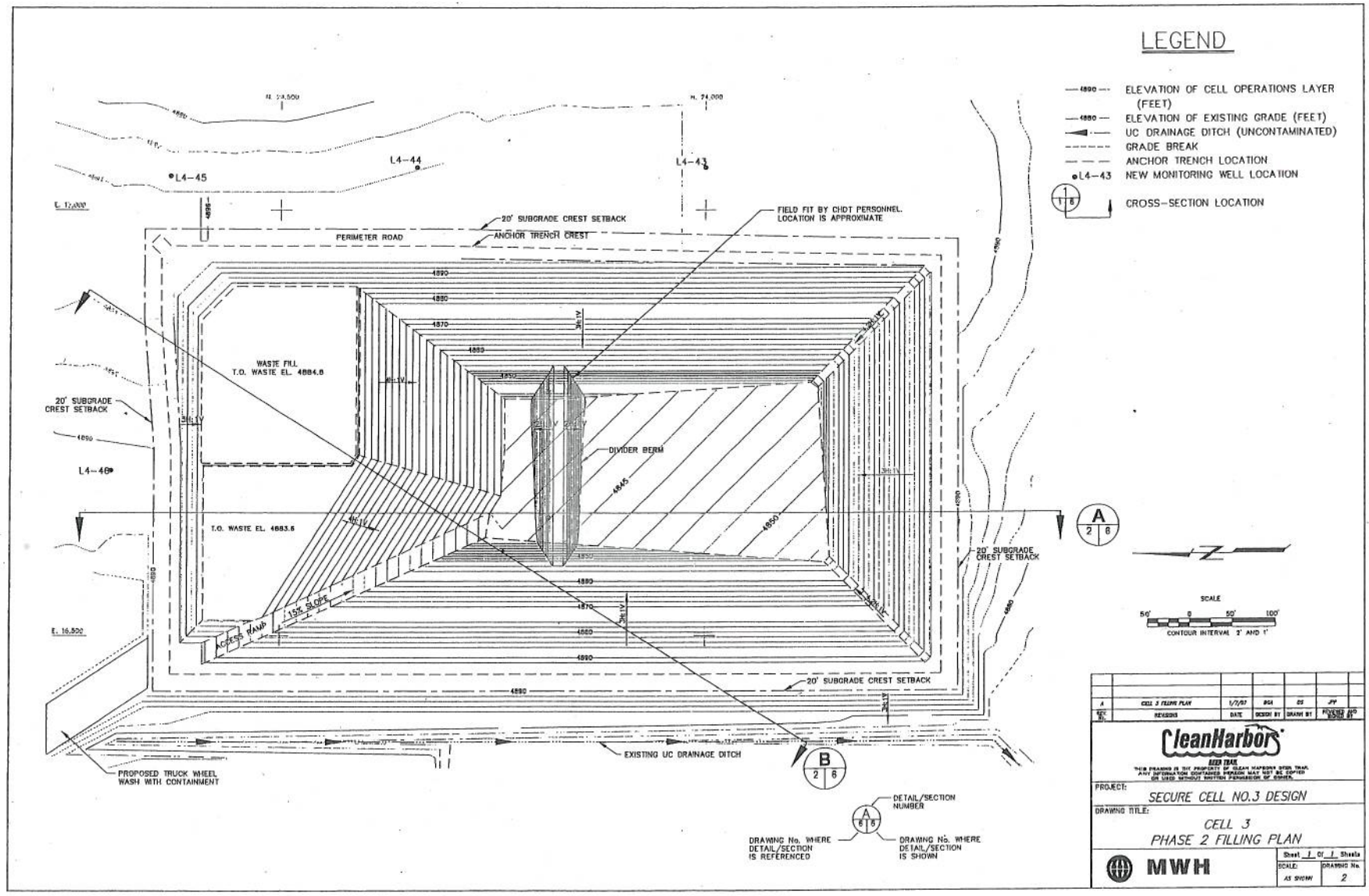
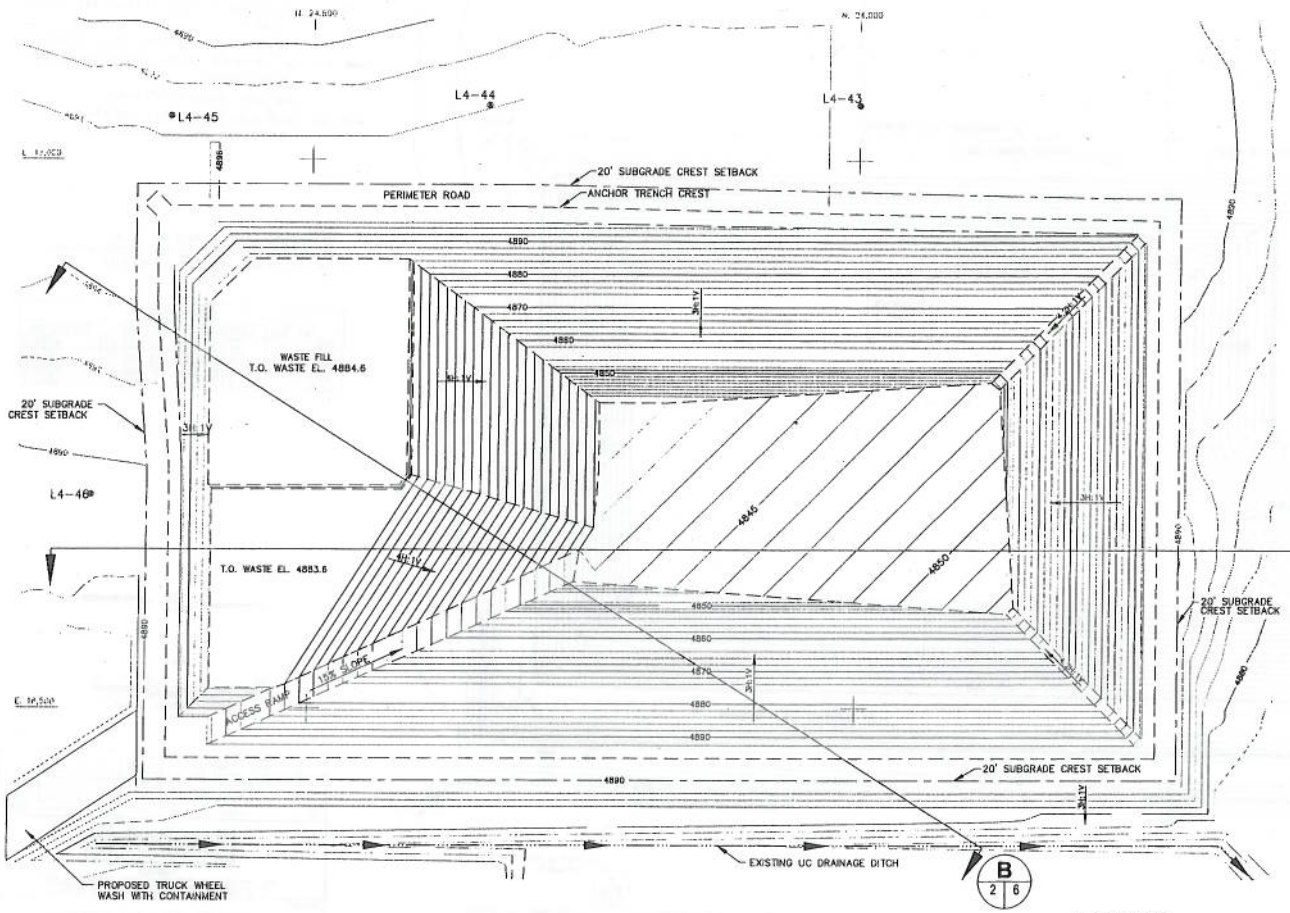
PROJECT: SECURE CELL NO.3 DESIGN
DRAWING TITLE: CELL 3 PHASE 1 FILLING PLAN
MWH
Sheet 1 Of 1 Sheets
SCALE: AS SHOWN
DRAWING No. 1


LEGEND
ELEVATION OF CELL OPERATIONS LAYER (FEET)
ELEVATION OF EXISTING GRADE (FEET)
UC DRAINAGE DITCH (UNCONTAMINATED)
GRADE BREAK
ANCHOR TRENCH LOCATION
NEW MONITORING WELL LOCATION
CROSS-SECTION LOCATION
L4-45
L4-44
L4-43
L4-46
E. 17,000
E. 16,500
20' SUBGRADE CREST SETBACK
PERIMETER ROAD
ANCHOR TRENCH CREST
FIELD FIT BY CHDT PERSONNEL. LOCATION IS APPROXIMATE
WASTE FILL
T.O. WASTE EL. 4884.6
T.O. WASTE EL. 4883.6
DIVIDER BERM
15% SLOPE
ACCESS RAMP
EXISTING UC DRAINAGE DITCH
PROPOSED TRUCK WHEEL WASH WITH CONTAINMENT
SCALE
50' 0 50' 100'
CONTOUR INTERVAL 2' AND 1'
DETAIL/SECTION NUMBER
DRAWING No. WHERE DETAIL/SECTION IS REFERENCED
DRAWING No. WHERE DETAIL/SECTION IS SHOWN
CleanHarbors
PROJECT:
SECURE CELL NO.3 DESIGN
DRAWING TITLE:
CELL 3
PHASE 2 FILLING PLAN
MWH
Sheet 1 Of 1 Sheets
SCALE: AS SHOWN
DRAWING No. 2



LEGEND

- —4890— ELEVATION OF CELL OPERATIONS LAYER (FEET)
- —4880— ELEVATION OF EXISTING GRADE (FEET)
- UC DRAINAGE DITCH (UNCONTAMINATED)
- GRADE BREAK
- ANCHOR TRENCH LOCATION
- ⊕L4-43 NEW MONITORING WELL LOCATION
- 1 / 1 6 CROSS-SECTION LOCATION

SCALE

50' 0 50' 100'

CONTOUR INTERVAL 2' AND 1'

DETAIL/SECTION NUMBER

A / 6 6

DRAWING No. WHERE DETAIL/SECTION IS REFERENCED

DRAWING No. WHERE DETAIL/SECTION IS SHOWN

REV. NO.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND EDITED BY
A	CELL 3 FILLING PLAN	1/7/07	BGA	EE	JPP

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PROJECT: SECURE CELL NO.3 DESIGN

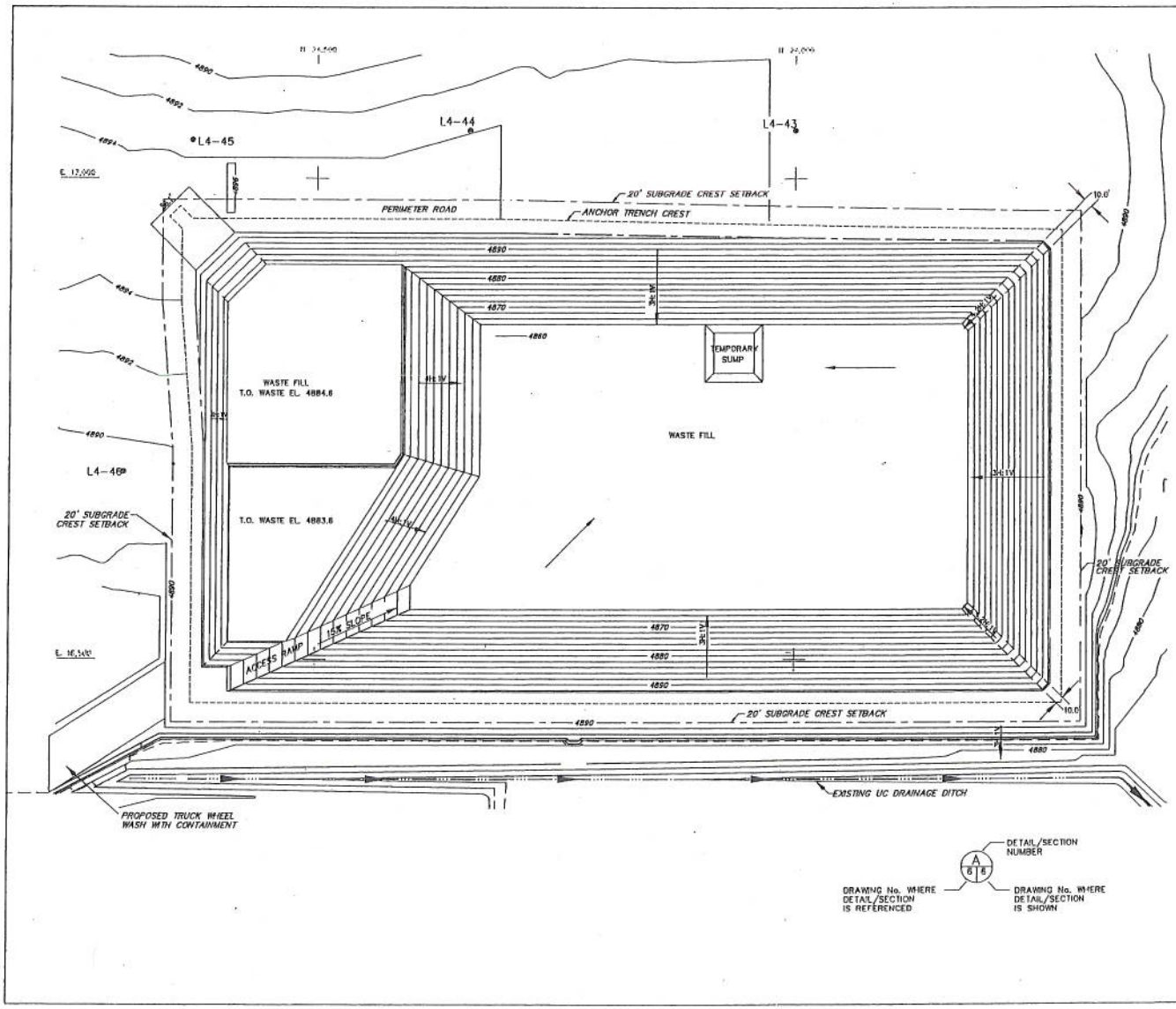
DRAWING TITLE: CELL 3 PHASE 3 FILLING PLAN

MWH

Sheet 1 Of 1 Sheets

SCALE: AS SHOWN

DRAWING No. 3



LEGEND

- —1890'— ELEVATION OF CELL OPERATIONS LAYER (FEET)
- —1880— ELEVATION OF EXISTING GRADE (FEET)
- UC DRAINAGE DITCH (UNCONTAMINATED)
- GRADE BREAK
- ANCHOR TRENCH LOCATION
- ●L4-43 NEW MONITORING WELL LOCATION
- CROSS-SECTION LOCATION

NOTE:
OPERATIONS LAYER IS REFERED TO AS PROTECTIVE SOIL LAYER IN THE SPECIFICATIONS. THE TWO TERMS ARE INTERCHANGEABLE

POINT TABLE			
PNT. NO.	NORTHING	EASTING	ELEVATION
CP1	24,178.58	16,582.05	4854.0
CP2	24,166.58	16,582.05	4854.0
CP3	24,166.58	16,818.27	4854.0
CP4	24,178.58	16,818.27	4854.0

SCALE
50' 0 50' 100'
CONTOUR INTERVAL 2' AND 1'

REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED BY/ APPROVED BY
1	REVISED FOR FILLING PLAN	10/16/06	JW	MBB	
0	ISSUED FOR PERMITTING AND BIDDING PURPOSES	09/06/06	J.Pfeiffer	A.Pfeiffer	J.P.Pfeiffer
-	ISSUED FOR CONSTRUCTION	12/08	D. Wagner	R.Gilmore	R.J.Gilmore

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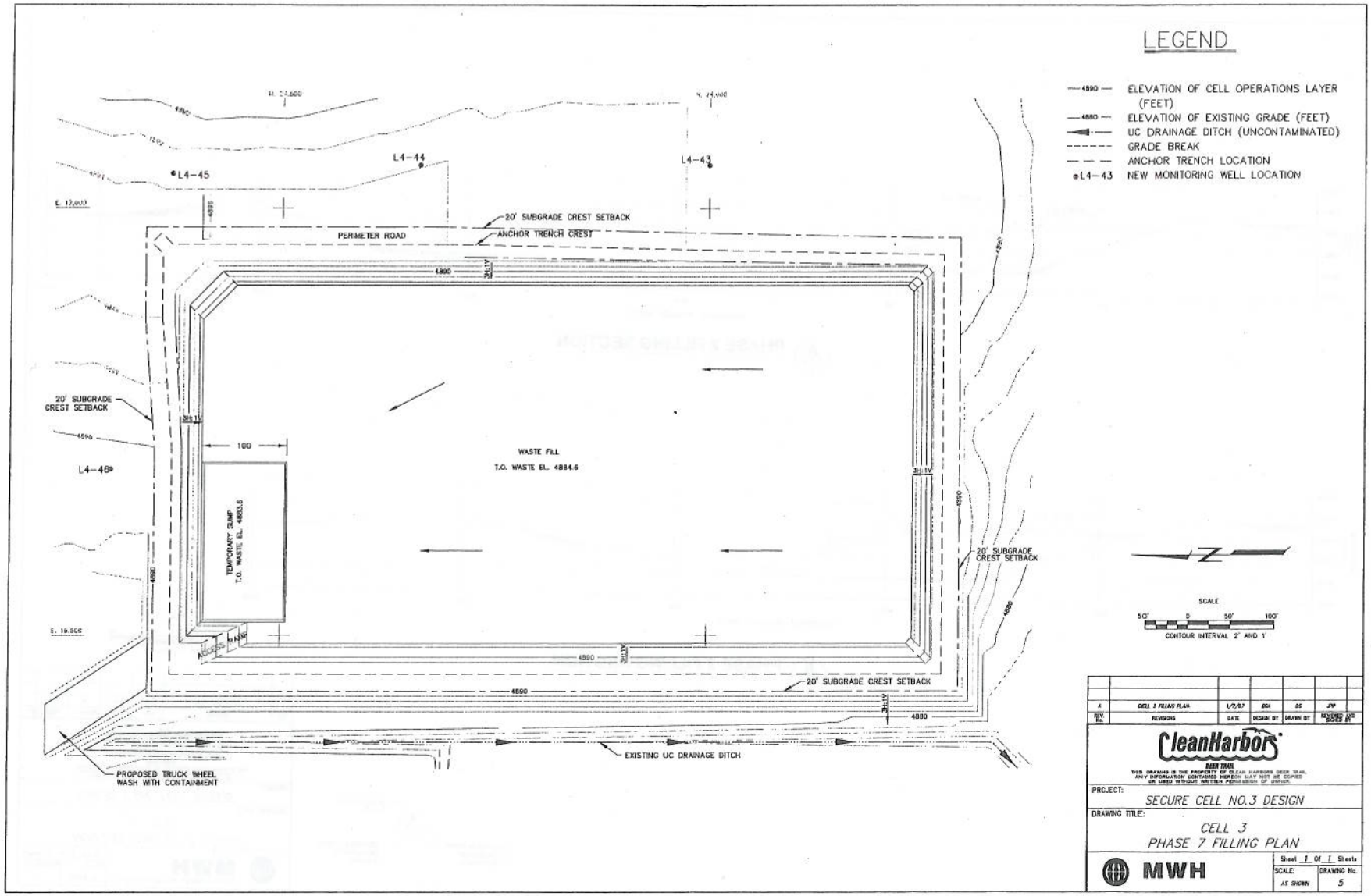
PROJECT: SECURE CELL NO.3 DESIGN
DRAWING TITLE: CELL 3
PHASE 4 FILLING PLAN

MWH

SHEET 2 OF 2 SHEETS
SCALE: AS SHOWN
DRAWING No. 4


LEGEND
4890 ELEVATION OF CELL OPERATIONS LAYER (FEET)
4880 ELEVATION OF EXISTING GRADE (FEET)
UC DRAINAGE DITCH (UNCONTAMINATED)
GRADE BREAK
ANCHOR TRENCH LOCATION
L4-43 NEW MONITORING WELL LOCATION
L4-45
L4-44
L4-43
L4-46
20' SUBGRADE CREST SETBACK
ANCHOR TRENCH CREST
PERIMETER ROAD
WASTE FILL
T.O. WASTE EL. 4884.6
TEMPORARY SUMP
T.O. WASTE EL. 4883.6
100
ACCESS RAMP
EXISTING UC DRAINAGE DITCH
PROPOSED TRUCK WHEEL WASH WITH CONTAINMENT
SCALE
50' 0 50' 100'
CONTOUR INTERVAL 2' AND 1'
A CELL 3 FILLING PLAN 1/7/07 DGA DS JVP
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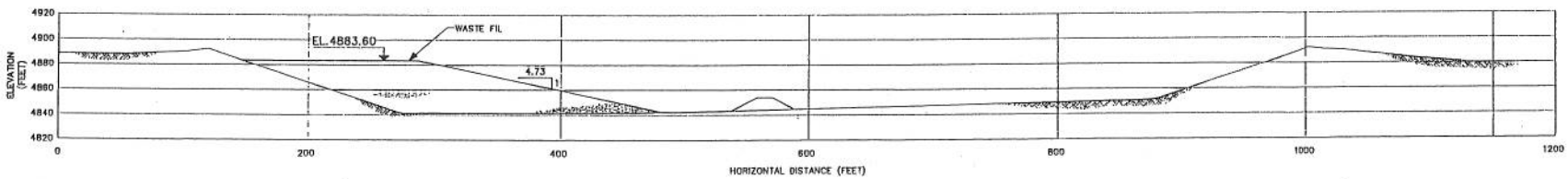
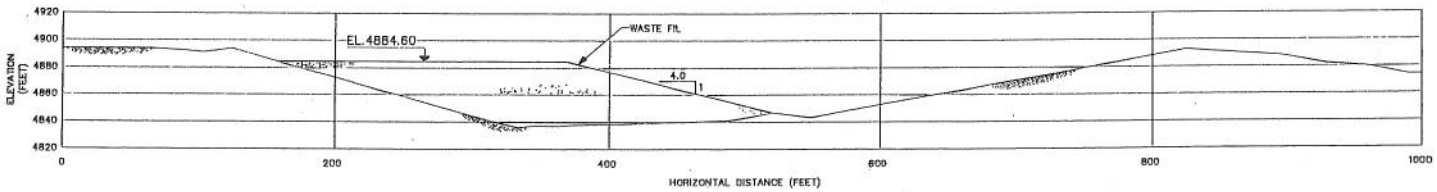
SECURE CELL NO.3 DESIGN
DRAWING TITLE:
CELL 3
PHASE 7 FILLING PLAN
MWH
Sheet 1 Of 1 Sheets
SCALE: AS SHOWN
DRAWING No. 5



A 2 6 **PHASE 2 FILLING SECTION**



B 2 6 **PHASE 2 FILLING SECTION**

SCALE

40' 0 40' 80'

CONTOUR INTERVAL 2'

A 6 6

DETAIL/SECTION NUMBER

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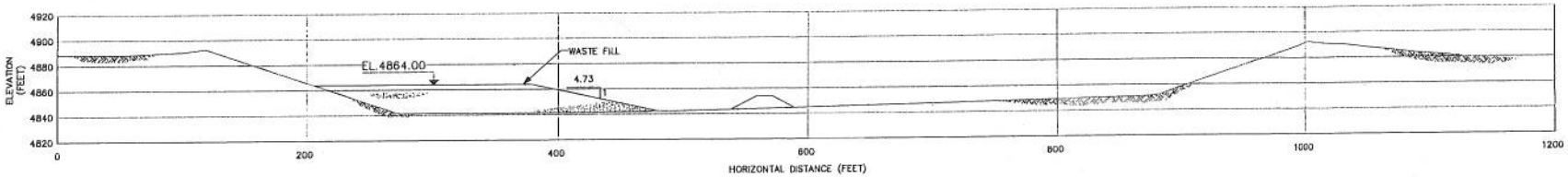
DRAWING TITLE: CELL 3 PHASE 2 FILLING SECTION

MWH MONTGOMERY WATSON HARZA

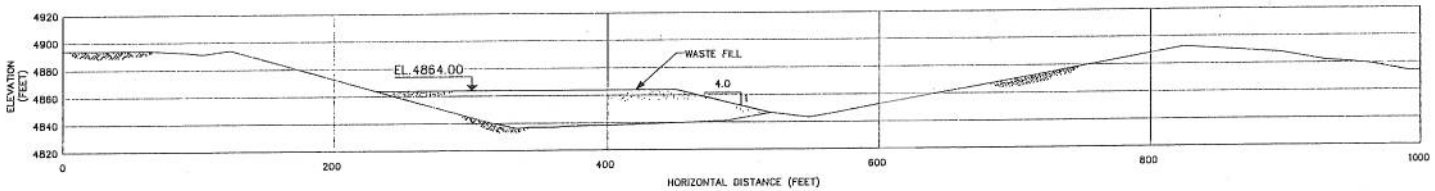
Sheet 1 Of 1 Sheets

SCALE: AS SHOWN

DRAWING No. 7



A 1 6 **PHASE 1 FILLING SECTION**



B 1 6 **PHASE 1 FILLING SECTION**

SCALE

40' 0 40' 80'

CONTOUR INTERVAL 2'

A 6 6

DETAIL/SECTION NUMBER

DRAWING No. WHERE DETAIL/SECTION IS REFERENCED

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PROJECT: SECURE CELL NO.3 DESIGN

DRAWING TITLE: CELL 3 PHASE 1 FILLING SECTION

MWH MONTGOMERY WATSON HARZA

Sheet 1 Of 1 Sheets

SCALE: AS SHOWN

DRAWING No. 6