

ATTACHMENT II-11
FACILITY DRAWINGS

The following facility drawings show the location and layout of waste management units permitted for storage, treatment and disposal at the Permittee's Facility:

GENERAL:

DRAWING NO.	TITLE	REVISION	DATE
0801-G01	Property with Rail Lines	4	November 19, 2013
0801-G02	Topography of Permitted Area	5	November 19, 2013
0801-G03	Facility Layout and Structures	6	November 19, 2013
0801-G04	Restricted Access Area	5	November 19, 2013
0801-G05	Section and Property Map	2	February 26, 2010
07007-J01	Environmental Monitors	8	November 19, 2013
07007-J02	Groundwater Monitoring Wells	3	March 2, 2011

The drawings listed above shall be updated annually and submitted to the Director on or before December 1.

MIXED WASTE LANDFILL CELL:

DRAWING NO.	TITLE	REVISION	DATE
11009-G01	Title Sheet	0	June 17, 2011
11009-L01	Facility and Embankment Layout	0	June 17, 2011
11009-C01	Embankment Liner Layout	0	June 17, 2011
11009-C02	Liner Sections & Details	0	June 17, 2011
11009-C03	Liner Sections & Details	0	June 17, 2011
11009-C04	Liner Sections & Details	0	June 17, 2011
11009-C05	Liner Sections & Details	0	June 17, 2011
11009-C06	Liner Sections & Details	0	June 17, 2011
11009-U01	Embankment Location Map & Buffer Zone	0	June 17, 2011

MIXED WASTE LANDFILL CELL COVER:

DRAWING NO.	TITLE	REVISION	DATE
11009-W01	Embankment Waste Surface Controls	0	June 17, 2011
11009-W02	Temporary Cover Surface & Closure Ditch Controls	2	April 24, 2014
11009-W03	Waste & Final Cover – Cross Sections	1	February 18, 2014
11009-W04	Waste & Final Cover – Sections & Details	2	April 24, 2014
11009-W05	Waste & Final Cover – Sections & Details	1	February 18, 2014
11009-W06	Waste & Final Cover – Sections & Details	2	February 18, 2014
11009-W07	Operational (Temporary) Ditch Plan	3	April 24, 2014
11009-W08	Operational (Temporary) Ditch Sections & Details	3	April 24, 2014
11009-W09	Operational (Temp) Connector Ditch Sections & Details	0	June 17, 2011

MIXED WASTE STORAGE BUILDING:

DRAWING NO.	TITLE	REVISION	DATE
9517-1	Building and Wash Pad Layout	E	February 26, 2010
9517-2	Secondary Containment	C	November 5, 2002
9517-3	Wash Pad Details	C	November 5, 2002

MIXED WASTE TREATMENT BUILDING:

DRAWING NO.	TITLE	REVISION	DATE
9317-M2	Dust Collection and Pneumatic Conveying Ducting	10	February 8, 2005
9317-FS1	Stabilization Process Flow Chart	2	October 4, 2012
9317-PP01	Process Piping Layout	4	February 26, 2010
9317-L102	Building Plan	9	February 2, 2005
9317-L103	Building Sections	9	February 2, 2005

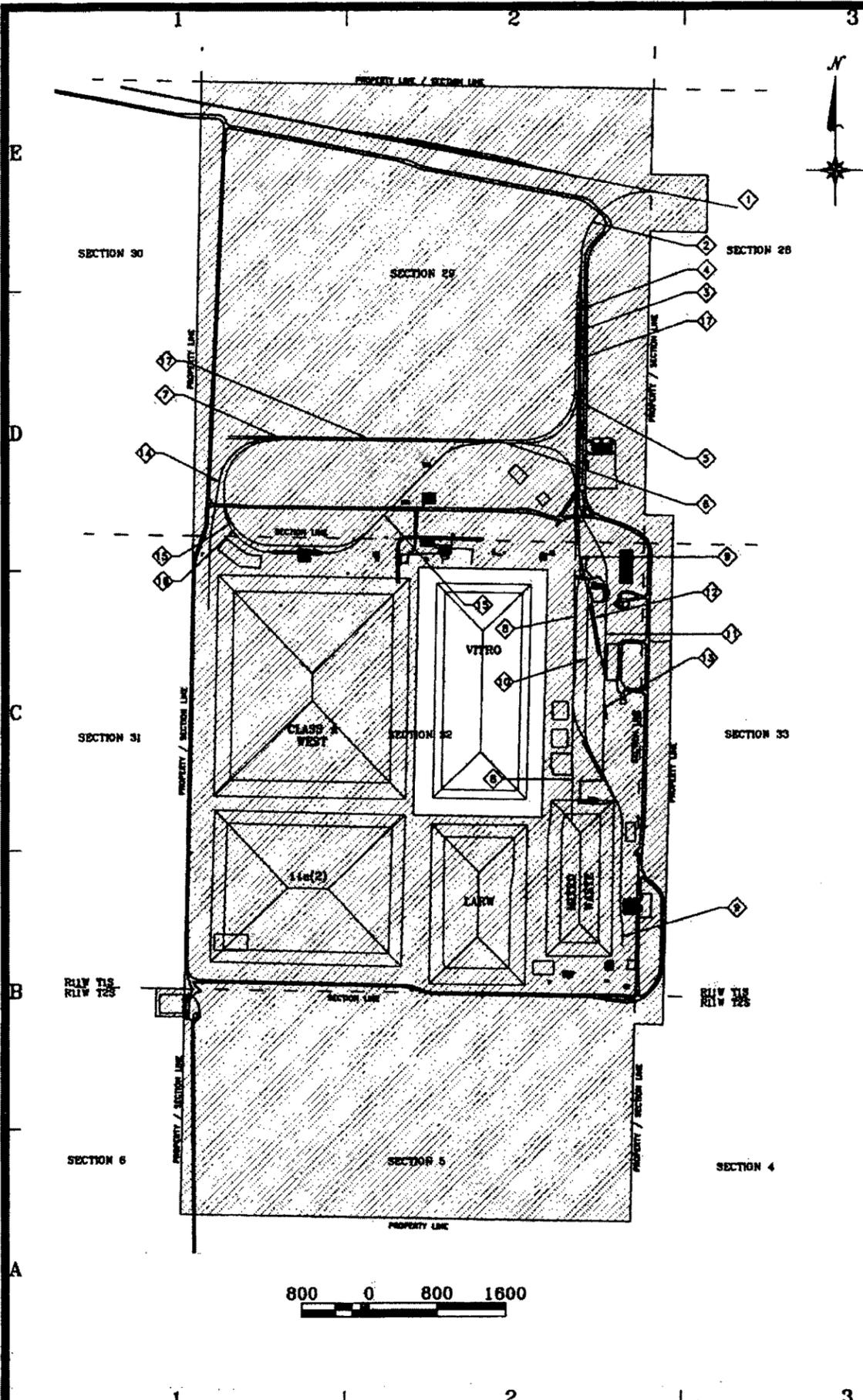
MIXED WASTE OPERATIONS BUILDING:

DRAWING NO.	TITLE	REVISION	DATE
0254-A01	Floor Plan and Layout	A	November 5, 2002
0254-A02	Office/Lab Area/ Change Area	0	February 8, 2005
0254-A03	Building Sections	A	November 5, 2002
0254-P01	Plumbing Plan	0	February 8, 2005
0254-M01	HVAC Plan	B	February 26, 2010
0254-M02	HVAC Plan	A	November 5, 2002

MIXED WASTE SURFACE IMPOUNDMENT:

DRAWING NO.	TITLE	REVISION	DATE
11014-L1	Facility Plan View	3	February 4, 2013
11014-L2	Impoundment Area Plan View	3	February 4, 2013
11014-C1	Pond Plan View with Sedimentation Basin	5	February 4, 2013
11014-C2	Berm and Anchor Trench Detail	3	February 4, 2013
11014-C3	Sedimentation Basin Cross Section	3	February 4, 2013
11014-C4	Withdrawal Pipe Cover	2	February 4, 2013
11014-C5	Leak Detection and Evaporation System Plan View and Detail	3	February 4, 2013
11014-C6	Leak Detection and Evaporation System Plan View and Detail	3	February 4, 2013
11014-C7	Sedimentation Basin Detail and Cross Section	4	February 4, 2013

END OF ATTACHMENT II-11



ENERGYSOLUTIONS SITE FACILITIES

DWG. NO. DESCRIPTION

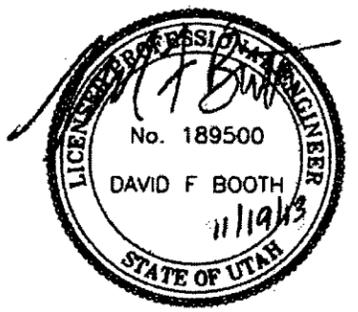
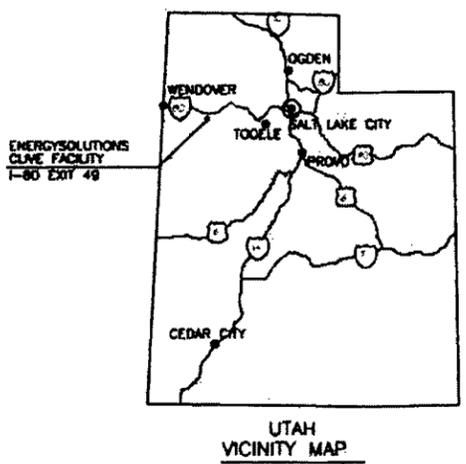
- 0801-G01 PROPERTY AREA AND RAILROAD TRACKS
- 0801-G02 TOPOGRAPHY OF PERMITTED AREA
- 0801-G03 FACILITY LAYOUT AND STRUCTURES
- 0801-G04 RESTRICTED ACCESS AREA
- 0801-G05 SECTION AND PROPERTY MAP
- 07007-J01 ENVIRONMENTAL MONITORS
- 07007-J02 GROUNDWATER MONITORING WELLS

LEGEND

- PROPERTY LINE
- RAILROAD
- - SECTION LINE
- ▨ ENERGYSOLUTIONS PROPERTY

KEYNOTES

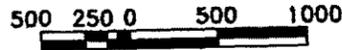
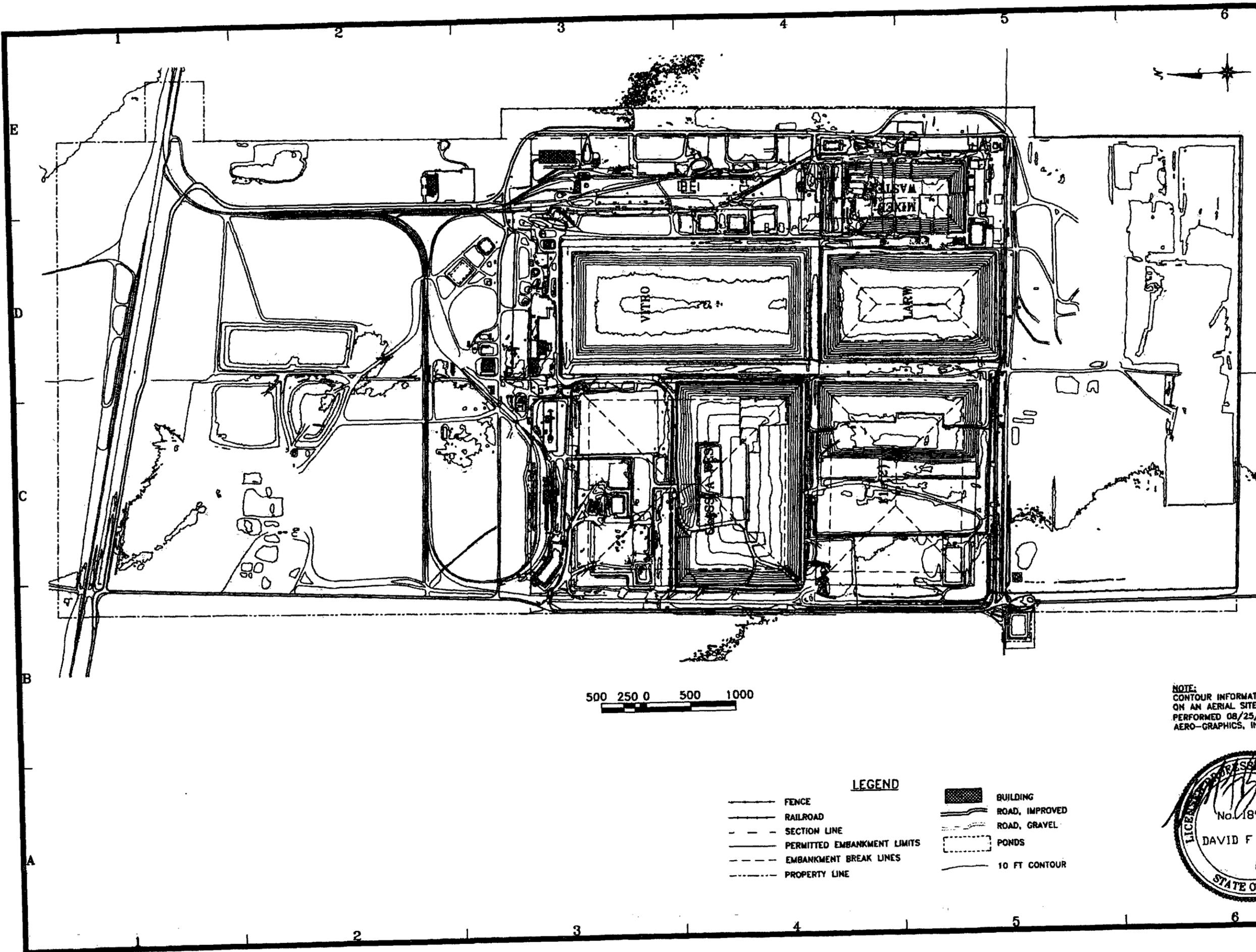
- ① UNION PACIFIC MAIN RAIL LINE (RIGHT-OF-WAY NOT SHOWN)
- ② ENERGYSOLUTIONS PRIMARY RAIL LINE
- ③ ENERGYSOLUTIONS SECONDARY RAIL
- ④ ENERGYSOLUTIONS TERTIARY RAIL LINE
- ⑤ ENERGYSOLUTIONS QUARTERINARY RAIL
- ⑥ ENERGYSOLUTIONS RAIL LINE N1
- ⑦ ENERGYSOLUTIONS RAIL LINE N2
- ⑧ ENERGYSOLUTIONS RAIL LINE #1
- ⑨ ENERGYSOLUTIONS RAIL LINE #2
- ⑩ ENERGYSOLUTIONS RAIL LINE #3
- ⑪ ENERGYSOLUTIONS RAIL LINE #4
- ⑫ CROSSOVER RAIL #3 TO RAIL #4
- ⑬ TRACK-HOE RAMP SPUR
- ⑭ WEST RAIL SPUR
- ⑮ ENERGYSOLUTIONS TRACK A
- ⑯ ENERGYSOLUTIONS TRACK B
- ⑰ ENERGYSOLUTIONS LADDER TRACK #2



CLIVE FACILITY
ENERGYSOLUTIONS SITE FACILITIES
PROPERTY WITH RAIL LINES
CLIVE, UTAH

<p>FOR INFORMATION ONLY</p>	<p>AS SHOWN 03/19/08</p>
<p>D. BOOTH</p> <p>G. DUTSON</p> <p>D. BOOTH</p>	<p>0801 G01</p>

DATE	BY	DESCRIPTION OF CHANGE
11/19/13	DFB	2013 UPDATE - FOR INFORMATION ONLY
03/22/11	DFB	2010 UPDATE (AUG) - FOR INFORMATION ONLY
02/17/10	DFB	2010 UPDATE - FOR INFORMATION ONLY
02/17/09	DFB	2009 UPDATE - FOR INFORMATION ONLY
02/26/08	DFB	FOR INFORMATION ONLY



NOTE:
 CONTOUR INFORMATION IS BASED
 ON AN AERIAL SITE SURVEY
 PERFORMED 08/25/2013 BY
 AERO-GRAPHICS, INC.

- LEGEND**
- FENCE
 - RAILROAD
 - - - SECTION LINE
 - PERMITTED EMBANKMENT LIMITS
 - - - EMBANKMENT BREAK LINES
 - - - PROPERTY LINE
 - BUILDING
 - ROAD, IMPROVED
 - ROAD, GRAVEL
 - PONDS
 - 10 FT CONTOUR



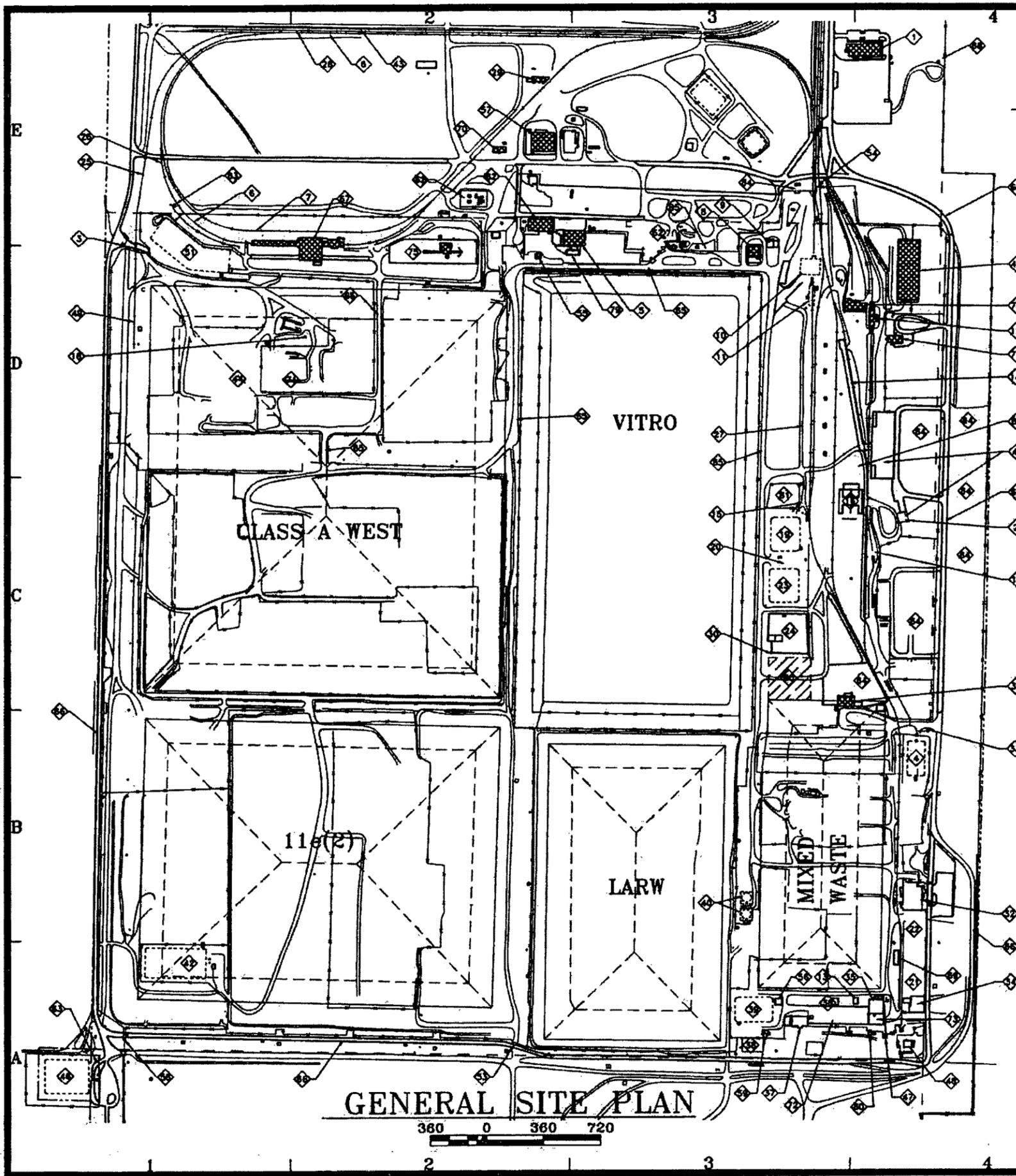
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05/17/13	DFE	2013 UPDATE - FOR INFORMATION ONLY
11/29/11	DFE	2011 UPDATE - FOR INFORMATION ONLY
05/27/11	DFE	2010 UPDATE (AUD) - FOR INFORMATION ONLY
02/28/10	DFE	2010 UPDATE - FOR INFORMATION ONLY
02/17/08	DFE	2008 UPDATE - FOR INFORMATION ONLY
05/28/08	DFE	FOR INFORMATION ONLY

ENERGYSOLUTIONS

"CLIVE" FACILITY
 ENERGYSOLUTIONS SITE FACILITIES
 TOPOGRAPHY OF PERMITTED AREA
 CLIVE, UTAH

FOR
 INFORMATION
 ONLY

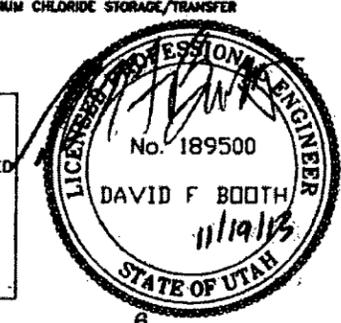
D. BOOTH
 G. DUTSON
 D. BOOTH
 AS SHOWN 03/19/08
 0801
 G02



- 1 ADMINISTRATION BUILDING
DRAWING SERIES 05041
- 2 EAST LLRW TRUCK UNLOADING FACILITY
HP SHACK
- 3 CWF ACCESS CONTROL SHACK
- 4 MIXED WASTE SURFACE IMPOUNDMENT
DRAWING SERIES 11014
- 5 LARW OPERATIONS BUILDING
DRAWING SERIES 9532, 03049, 04014, 04021
- 6 TRACK A RAIL LOOP
DRAWING SERIES 05024
- 7 TRACK B RAIL SIDING
DRAWING SERIES 05024
- 8 INSIDE LLRW MAINTENANCE SHOP
- 9 INSIDE LLRW MAINTENANCE BAY
- 10 FORMER RAIL CAR ROLLOVER, (DEMOLISHED 2013)
DWG SERIES 9512, 0133, 0221, 0244, 04001, 04018
- 11 TRACK #2 RAIL WASH FACILITY (DEMOLISHED OCTOBER
2011) DRAWING SERIES 9513
- 12 TRACK #4 RAIL WASH FACILITY
DRAWING SERIES 9906, 08007
- 13 MIXED WASTE EVAPORATION TANKS #175 & #200
DRAWING SERIES 9535
- 14 RAIL CAR DIGGING FACILITY (DIGGING TRACK)
DRAWING SERIES 0107
- 15 INTERMODAL UNLOADING FACILITY LIFT STATION
DRAWING SERIES 9822
- 16 INTERMODAL UNLOADING FACILITY
DRAWING SERIES 9705, 04003
- 17 TRACK HOE RAMP
DRAWING SERIES 0107
- 18 CWF DISPOSAL RAD AREA HP SHED
- 19 97 LARW EVAPORATION POND
DRAWING SERIES 9718, 03063
- 20 POND DRAIN LIFT STATION
DRAWING SERIES 9817, 03063
- 21 MIXED WASTE CONTAINER HOLDING PAD
DRAWING SERIES 9803, 9834
- 22 MIXED WASTE EAST CONTAINER STORAGE AREA
DRAWING SERIES 9803, 9834
- 23 95 LARW EVAPORATION POND
DRAWING SERIES 9504, 03063, 08007
- 24 LARW CONTAINER STORAGE PAD
DRAWING SERIES 9514
- 25 WEST RAIL SPUR (LARGE COMPONENT TRACK)
DRAWING SERIES 0241
- 26 NW RAIL ACCESS CONTROL SHACK
- 27 STORM WATER LIFT SUMP
DRAWING SERIES 08007
- 28 EAST-WEST RAIL SIDING
DRAWING SERIES 05024
- 29 CONTAINER MAINTENANCE SHOP
- 30 LARW CONTAINER STORAGE PAD SHACK
- 31 BOX WASHING FACILITY
DRAWING SERIES 9821, 9822, 9822
- 32 MIXED WASTE OPERATIONS BUILDING
DRAWING SERIES 9713, 0240
- 33 MIXED WASTE SAND TRANSFER
ACCESS CONTROL SHACK
- 34 MIXED WASTE UNLOADING DOCK
DRAWING SERIES 9848
- 35 MIXED WASTE TREATMENT BUILDING
DWG SERIES 9317, 9819, 0132, 0237, 0249, 0257, 03023
- 36 MIXED WASTE CENTRAL CONTAINER STORAGE AREA
DRAWING SERIES 9516, 9922
- 37 MIXED WASTE STORAGE (VTD) BUILDING
DRAWING SERIES 9417, 9517, 0248
- 38 BOX COUNTING PAD
DRAWING SERIES 9835
- 39 MIXED WASTE EVAPORATION POND
DRAWING SERIES 9802
- 40 MIXED WASTE EVAPORATION TANKS #225 & #250
DRAWING SERIES 9616 (DEMOLISHED 2013)
- 41 EAST LLRW TRUCK UNLOADING FACILITY
DRAWING SERIES 05024, 94048, 05025
- 42 2000 LARW EVAPORATION POND
DRAWING SERIES 0006
- 43 LADDER TRACK #2
DRAWING SERIES 07010
- 44 CLASS A NORTH LARGE COMPONENT AREA
DRAWING SERIES 04080
- 45 DU STORAGE BUILDING
DRAWING SERIES 10008
- 46 SOUTHWEST CORNER EVAPORATION POND
DRAWING SERIES 9721, 04047
- 47 PNEUMATIC REAGENT DELIVERY SYSTEM
DRAWING SERIES 9618
- 48 MIXED WASTE MAINTENANCE WELD SHOP
- 49 LARGE COMPONENT UNLOADING PAD
DRAWING SERIES 0241
- 50 RESERVED
- 51 NORTHWEST CORNER EVAPORATION POND
DRAWING SERIES 06021
- 52 SUBSTATION
DRAWING SERIES 05056
- 53 SOUTH ACCESS CONTROL SHACK
- 54 EAST SIDE RAIL ACCESS CONTROL SHACK
- 55 SAFETY SUPPLY SHED
- 56 MIXED WASTE EVAPORATION TANKS #150 & #125
DRAWING SERIES 9519
- 57 PURCHASING/ WAREHOUSE/ MAINTENANCE BUILDING
DRAWING SERIES 03096
- 58 SOUTH GATE SECURITY SHACK
- 59 WASTE ASSAY COUNTING SYSTEMS BUILDING
- 60 MIXED WASTE FIRE PUMP BUILDING
- 61 INTERMODAL UNLOADING FACILITY COOL SHACK
- 62 BATCH PLANT (2008 RE-LOCATION SHOWN)
DRAWING SERIES 03055, 04022, 07009
- 63 VITRO STORM WATER OUTLET
DRAWING SERIES 9721, 04047
- 64 EMPTY CONTAINER STORAGE AREAS
- 65 WASTE HAUL ROADS
DRAWING SERIES 05049
- 66 PERMETER ROAD
DRAWING SERIES 05049
- 67 ROTARY DUMP FACILITY (THAW, ROTARY & WASH)
DRAWINGS SERIES 05006
- 68 METEOROLOGICAL STATION
DRAWING SERIES 06020
- 69 MIXED WASTE RAIL UNLOADING DOCK
DRAWING SERIES 9402
- 70 QC & GW LABORATORIES BUILDING
DRAWING SERIES 08006
- 71 CLASS A NORTH CONTAINERIZED WASTE AREA
DRAWING SERIES 04080
- 72 MIXED WASTE SOUTH CONTAINER STORAGE AREA
- 73 MIXED WASTE SOUTHEAST CONTAINER STORAGE AREA
DRAWING SERIES 03023
- 74 RESERVED
- 75 SHREDDER FACILITY
DRAWING SERIES 05056
- 76 RESERVED
- 77 DECON ACCESS CONTROL BUILDING
DRAWING SERIES 05013, 08007
- 78 INTERMODAL CONTAINER WASH FACILITY
DRAWING SERIES 05006, 05007
- 79 LARW OPERATIONS TRUCK WASH PAD
DRAWING SERIES 04011
- 80 BULK STORAGE PAD (DEMOLISHED JUNE, 2006)
DRAWING SERIES 9412
- 81 LLRW BONE YARD
- 82 LLRW OPERATIONS BUILDING
DRAWING SERIES 07013
- 83 RAIL GUARD SHACK
- 84 WATER TOWER (WELL/SALT WATER SUPPLY)
- 85 MAGNESIUM CHLORIDE STORAGE/TRANSFER

LEGEND

— FENCE	▒ BUILDING
— RAILROAD	— ROAD, IMPROVED
- - - SECTION LINE	- - - ROAD, GRAVEL
- - - PERMITTED EMBANKMENT LIMITS	▭ PONDS
- - - EMBANKMENT BREAK LINES	
- - - PROPERTY LINE	



01/19/13 DFB 2013 UPDATE - FOR INFORMATION ONLY
 02/27/12 DFB REMOVED REFERENCE TO W/ EMPTY CONTAINER STORAGE PAD (FACILITY DECOMMISSIONED)
 11/29/11 DFB 2011 UPDATE (ADDED B3, B4 & B5) - FOR INFORMATION ONLY
 02/28/10 DFB 2010 UPDATE - FOR INFORMATION ONLY
 01/17/09 DFB 2009 UPDATE - FOR INFORMATION ONLY
 05/26/08 DFB FOR INFORMATION ONLY

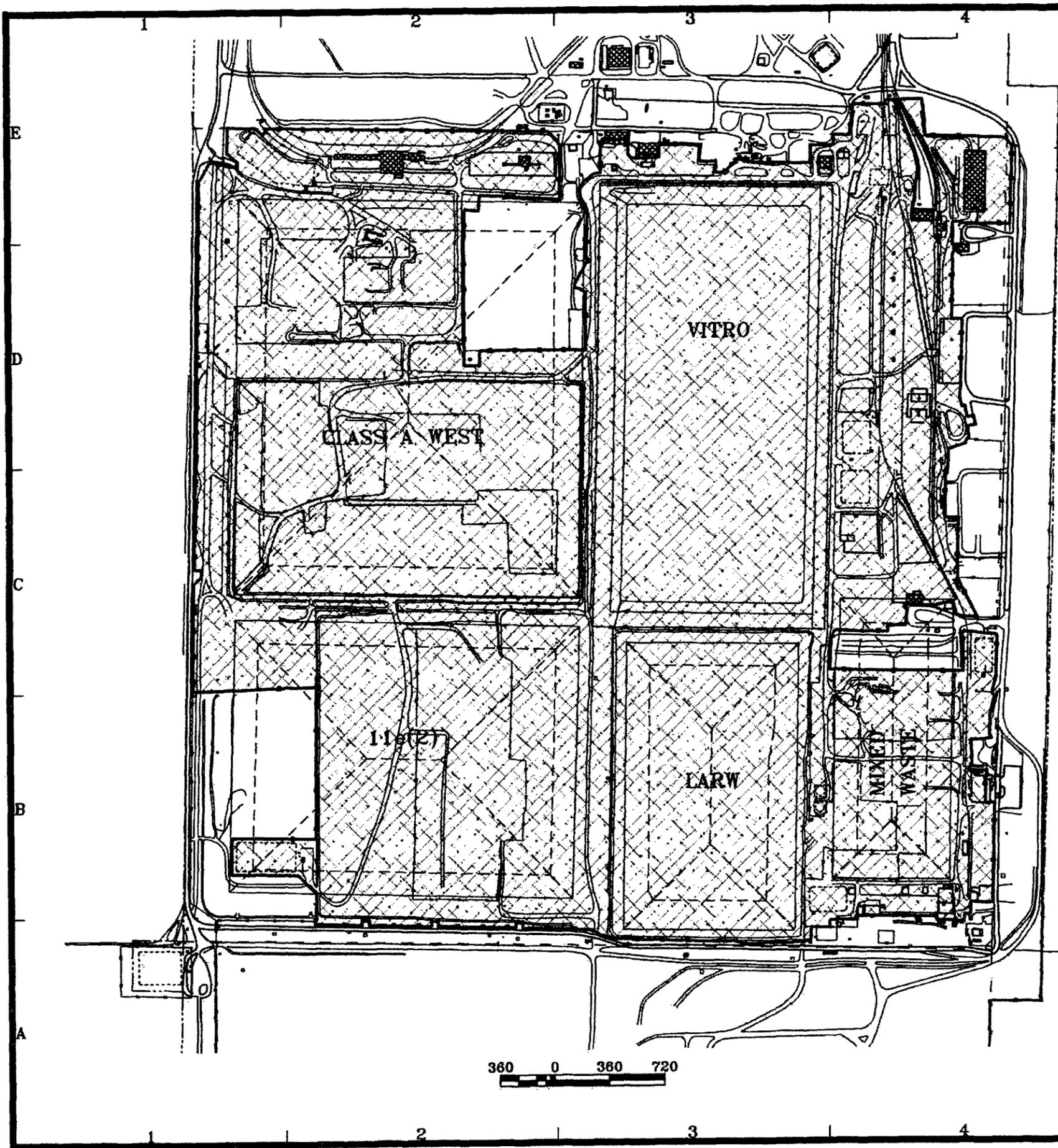
DATE BY DESCRIPTION OF CHANGE

ENERGYSOLUTIONS
 ENERGYSOLUTIONS "CLIVE" FACILITY
 CLIVE DISPOSAL FACILITY
 SITE LAYOUT AND FACILITY LEGEND
 CLIVE, UTAH

FOR INFORMATION ONLY

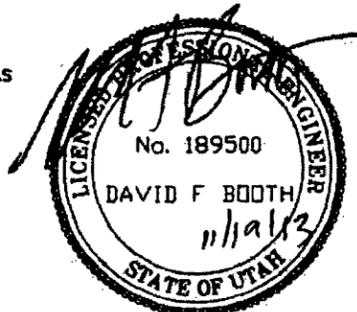
D. BOOTH
G. DUTSON
D. BOOTH
AS SHOWN 03/19/08

**0801
G03**



- LEGEND**
- FENCE
 - RAILROAD
 - - - SECTION LINE
 - PERMITTED EMBANKMENT LIMITS
 - - - EMBANKMENT BREAK LINES
 - - - PROPERTY LINE
 - BUILDING
 - ROAD, IMPROVED
 - ROAD, GRAVEL
 - PONDS
 - AREA OF RESTRICTED ACCESS

NOTE:
RESTRICTED AREA BOUNDARY IS CURRENT AS
OF 11/15/2013.



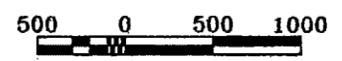
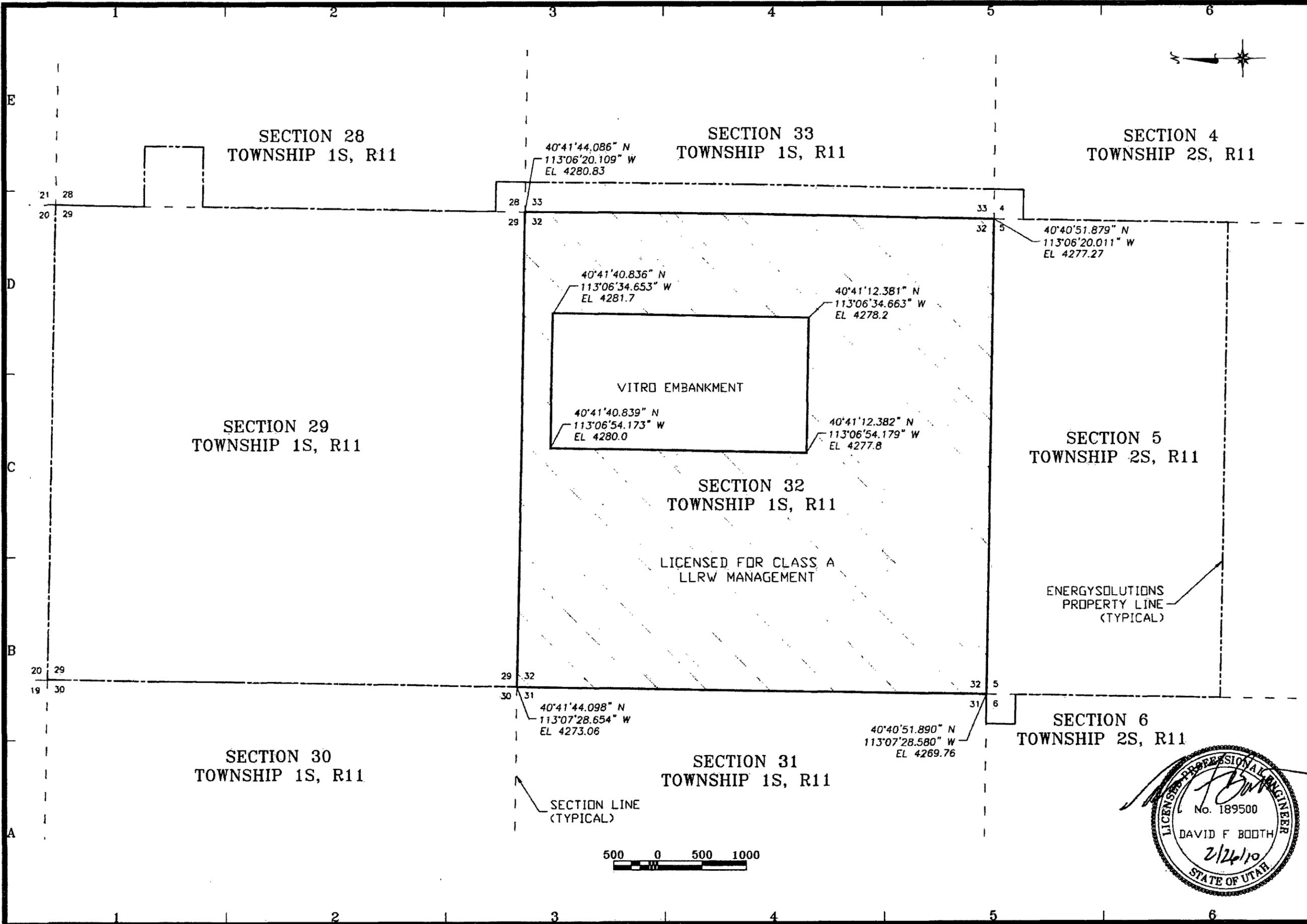
DATE	BY	DESCRIPTION OF CHANGE
05/11/19	13	07/18/2013 UPDATE - FOR INFORMATION ONLY
05/11/29	11	07/18/2011 UPDATE (BASE MAP) - FOR INFORMATION ONLY
05/09/22	11	07/18/2010 UPDATE (AUG) - FOR INFORMATION ONLY, INCL NEW OPS & DU STORAGE BLDGS
05/08/28	10	07/18/2010 UPDATE - FOR INFORMATION ONLY
05/07/17	09	07/18/2009 UPDATE - FOR INFORMATION ONLY
05/03/26	08	07/18/2008 UPDATE FOR INFORMATION ONLY

ENERGYSOLUTIONS
 "CLIVE" FACILITY
 ENERGYSOLUTIONS SITE FACILITIES
 RESTRICTED ACCESS AREA
 CLIVE, UTAH

FOR INFORMATION ONLY

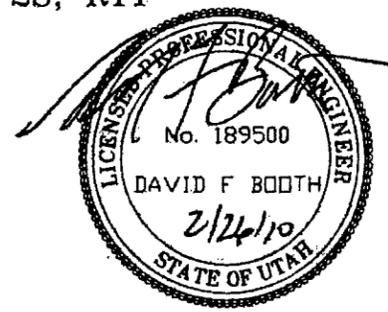
A	D. BOOTH
	G. DUTSON
	D. BOOTH
	AS SHOWN 03/19/08

0801
G04



2/26/10	DEB	CORRECTED SECTION CORNER COORDINATES TO MATCH RML LICENSE
2/18/08	DEB	2008 UPDATE - FOR INFORMATION ONLY
3/28/08	DEB	FOR INFORMATION ONLY
	DATE	BY DESCRIPTION OF CHANGE

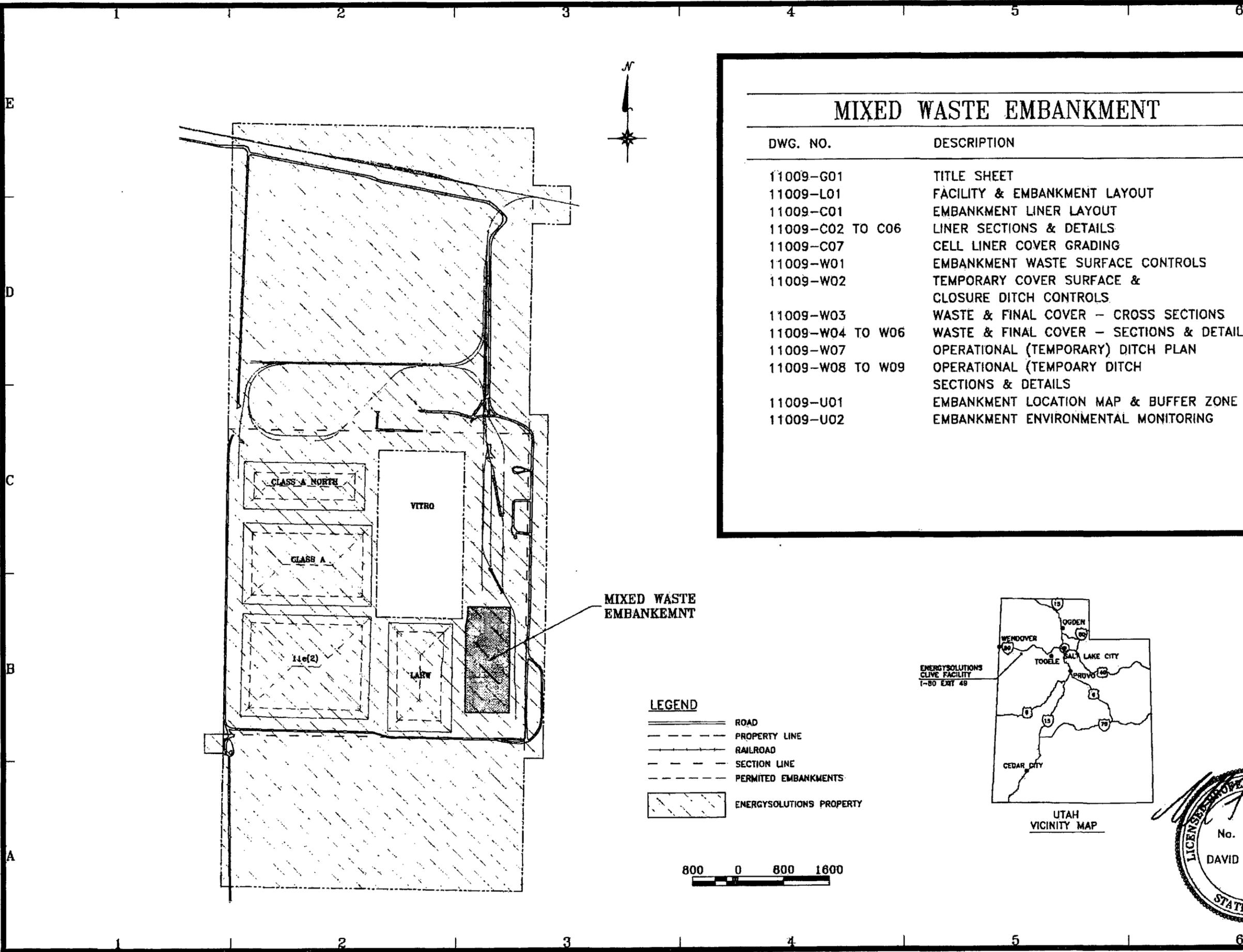
ENERGYSOLUTIONS
CLIVE FACILITY
ENERGYSOLUTIONS SITE FACILITIES
SECTION AND PROPERTY MAP
CLIVE, UTAH



FOR
INFORMATION
ONLY

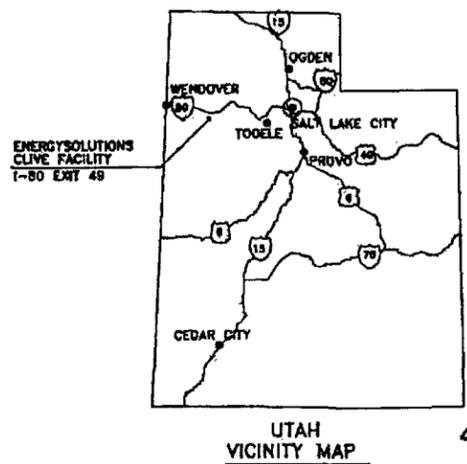
D. BOOTH
G. DUTSON
D. BOOTH
AS SHOWN 03/19/08

0801
G05



MIXED WASTE EMBANKMENT

DWG. NO.	DESCRIPTION
11009-G01	TITLE SHEET
11009-L01	FACILITY & EMBANKMENT LAYOUT
11009-C01	EMBANKMENT LINER LAYOUT
11009-C02 TO C06	LINER SECTIONS & DETAILS
11009-C07	CELL LINER COVER GRADING
11009-W01	EMBANKMENT WASTE SURFACE CONTROLS
11009-W02	TEMPORARY COVER SURFACE & CLOSURE DITCH CONTROLS
11009-W03	WASTE & FINAL COVER - CROSS SECTIONS
11009-W04 TO W06	WASTE & FINAL COVER - SECTIONS & DETAILS
11009-W07	OPERATIONAL (TEMPORARY) DITCH PLAN
11009-W08 TO W09	OPERATIONAL (TEMPOARY DITCH SECTIONS & DETAILS
11009-U01	EMBANKMENT LOCATION MAP & BUFFER ZONE
11009-U02	EMBANKMENT ENVIRONMENTAL MONITORING



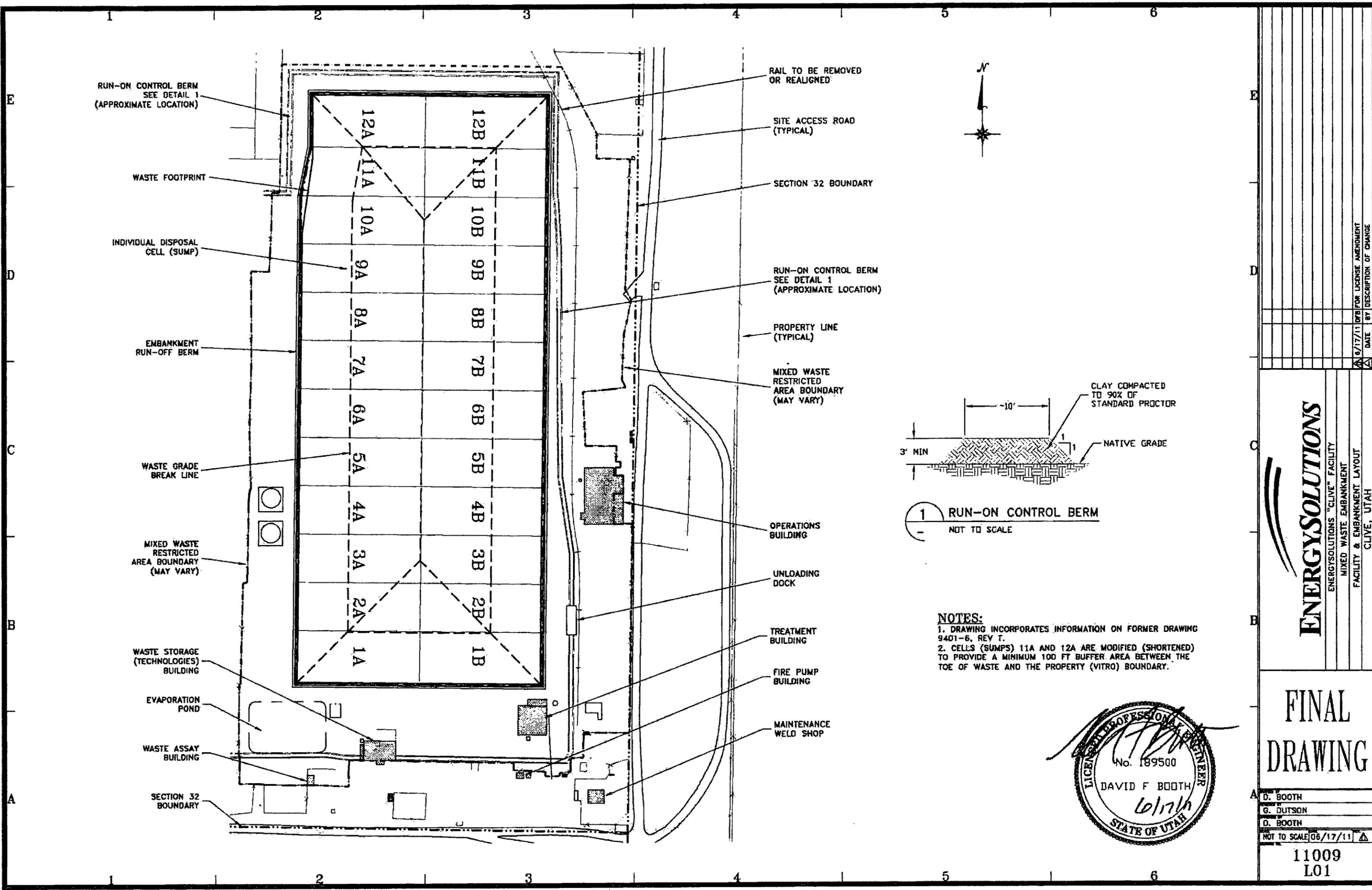
MIXED WASTE FACILITY
MIXED WASTE EMBANKMENT

TITLE SHEET
CLIVE, UTAH

FINAL DRAWING

B. DICK	AS NOTED 06/17/11
G. DUTSON	
D. BOOTH	
11009 G01	

ON 8/17/11 UPB FOR LICENSE AMENDMENT
 BY DESCRIPTION OF CHANGE
 DATE BY



RUN-ON CONTROL BERM
SEE DETAIL 1
(APPROXIMATE LOCATION)

WASTE FOOTPRINT

INDIVIDUAL DISPOSAL
CELL (SUMP)

EMBANKMENT
RUN-OFF BERM

WASTE GRADE
BREAK LINE

MIXED WASTE
RESTRICTED
AREA BOUNDARY
(MAY VARY)

WASTE STORAGE
(TECHNOLOGIES)
BUILDING

EVAPORATION
POND

WASTE ASSAY
BUILDING

SECTION 32
BOUNDARY

RAIL TO BE REMOVED
OR REALIGNED

SITE ACCESS ROAD
(TYPICAL)

SECTION 32 BOUNDARY

RUN-ON CONTROL BERM
SEE DETAIL 1
(APPROXIMATE LOCATION)

PROPERTY LINE
(TYPICAL)

MIXED WASTE
RESTRICTED
AREA BOUNDARY
(MAY VARY)

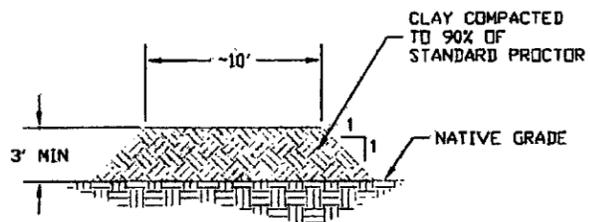
OPERATIONS
BUILDING

UNLOADING
DOCK

TREATMENT
BUILDING

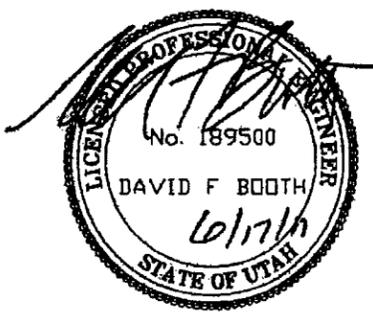
FIRE PUMP
BUILDING

MAINTENANCE
WELD SHOP



1 RUN-ON CONTROL BERM
NOT TO SCALE

- NOTES:**
1. DRAWING INCORPORATES INFORMATION ON FORMER DRAWING 9401-6, REV T.
 2. CELLS (SUMPS) 11A AND 12A ARE MODIFIED (SHORTENED) TO PROVIDE A MINIMUM 100 FT BUFFER AREA BETWEEN THE TOE OF WASTE AND THE PROPERTY (VITRO) BOUNDARY.



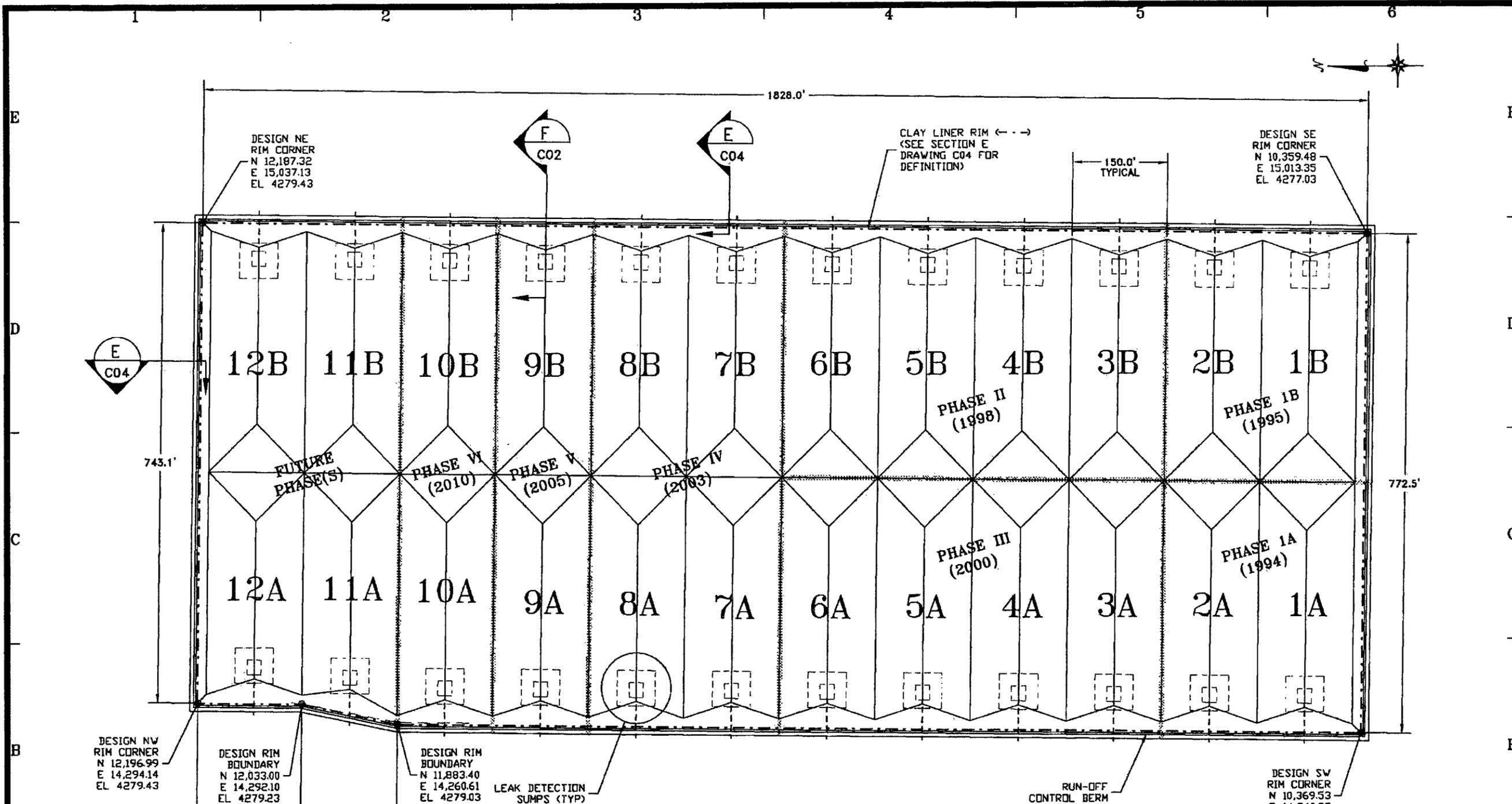
ENERGYSOLUTIONS
ENERGYSOLUTIONS "CLIVE" FACILITY
MIXED WASTE EMBANKMENT
FACILITY & EMBANKMENT LAYOUT
CLIVE, UTAH

**FINAL
DRAWING**

A. D. BOOTH
G. DUTSON
D. BOOTH
NOT TO SCALE 06/17/11

11009
L01

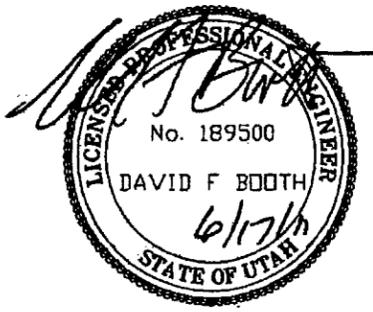
DATE 06/17/11 BY DESCRIPTION OF CHANGE



PLAN VIEW-MIXED WASTE EMBANKMENT



- NOTES:**
- DRAWING INCORPORATES INFORMATION ON FORMER DRAWING 9401-6, REV T.
 - DRAWING DEPICTS TOP OF LINER PROTECTIVE COVER. REFER TO DRAWING C07 FOR ADDITIONAL DETAIL.
 - REFER TO CONSTRUCTION (PHASE) AS-BUILT REPORTS FOR AS-BUILT INFORMATION.
 - CELLS (SUMPS) 11B & 12B WILL FOLLOW THE SAME CONSTRUCTION PLAN AS CELLS 9B & 10B. CELLS 11A & 12A WILL BE SIMILAR TO 9A & 10A ALTHOUGH SHORTER AS SHOWN. DETAILED CONSTRUCTION PLANS AND SPECIFICATIONS WILL BE SUBMITTED TO THE STATE OF UTAH (DHSW) FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. THESE PLANS WILL CLEARLY DETAIL THE MODIFICATIONS TO CELLS 11A & 12A.

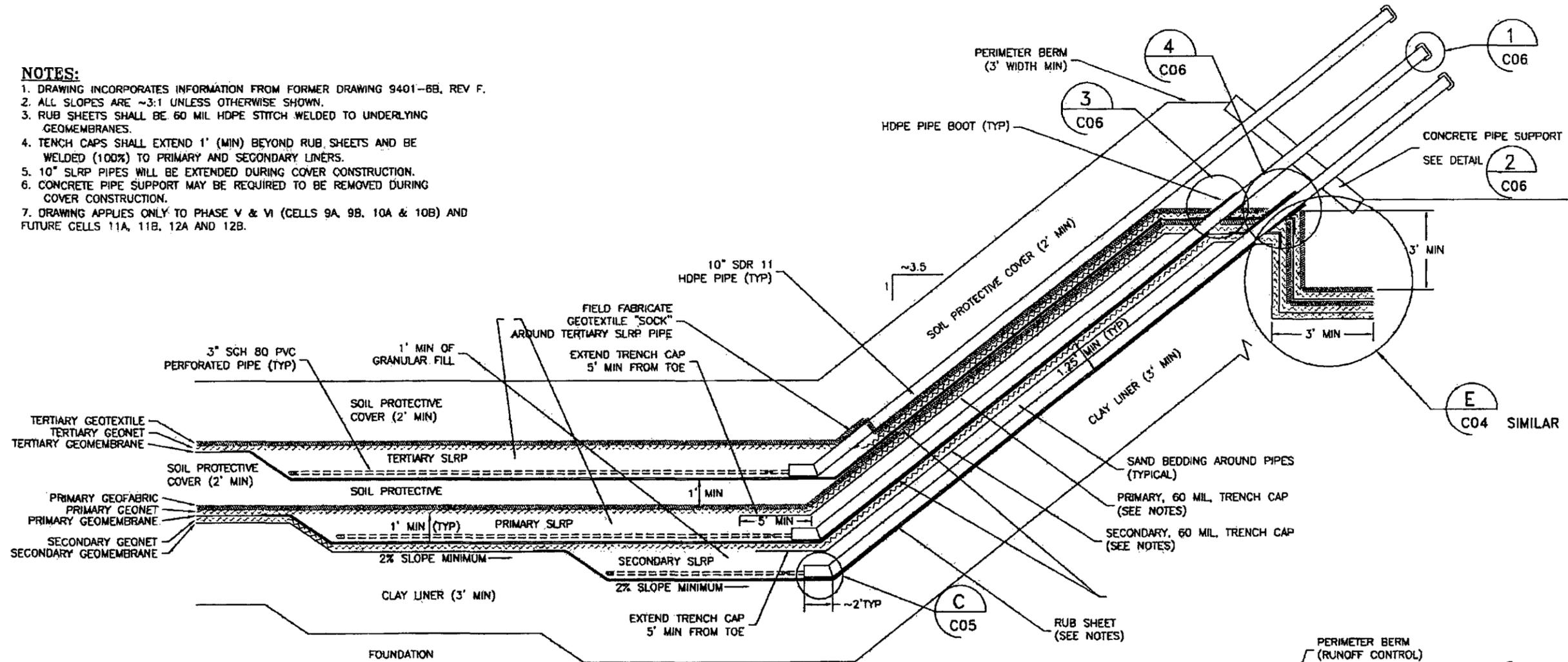


ENERGYSOLUTIONS	
ENERGYSOLUTIONS "CLIVE" FACILITY MIXED WASTE EMBANKMENT EMBANKMENT LINER LAYOUT CLIVE, UTAH	
FINAL DRAWING	
DATE	6/17/11
BY	D. BOOTH
CHECKED BY	G. DUTSON
DATE	06/17/11
PROJECT NO.	11009 C01

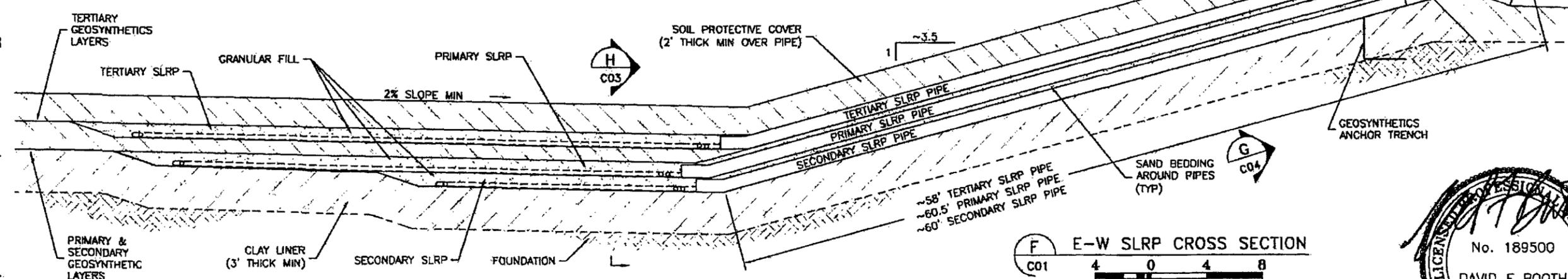
6/17/11 DFB FOR LICENSE AMENDMENT
 DATE BY DESCRIPTION OF CHANGE

NOTES:

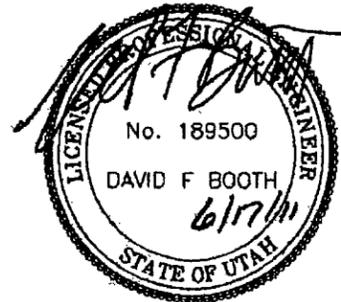
1. DRAWING INCORPORATES INFORMATION FROM FORMER DRAWING 9401-6B, REV F.
2. ALL SLOPES ARE ~3:1 UNLESS OTHERWISE SHOWN.
3. RUB SHEETS SHALL BE 60 MIL HDPE STITCH WELDED TO UNDERLYING GEOMEMBRANES.
4. TRENCH CAPS SHALL EXTEND 1' (MIN) BEYOND RUB SHEETS AND BE WELDED (100%) TO PRIMARY AND SECONDARY LINERS.
5. 10" SLRP PIPES WILL BE EXTENDED DURING COVER CONSTRUCTION.
6. CONCRETE PIPE SUPPORT MAY BE REQUIRED TO BE REMOVED DURING COVER CONSTRUCTION.
7. DRAWING APPLIES ONLY TO PHASE V & VI (CELLS 9A, 9B, 10A & 10B) AND FUTURE CELLS 11A, 11B, 12A AND 12B.



F EXPLODED E-W SLRP CROSS SECTION
C01 NTS



F E-W SLRP CROSS SECTION
C01

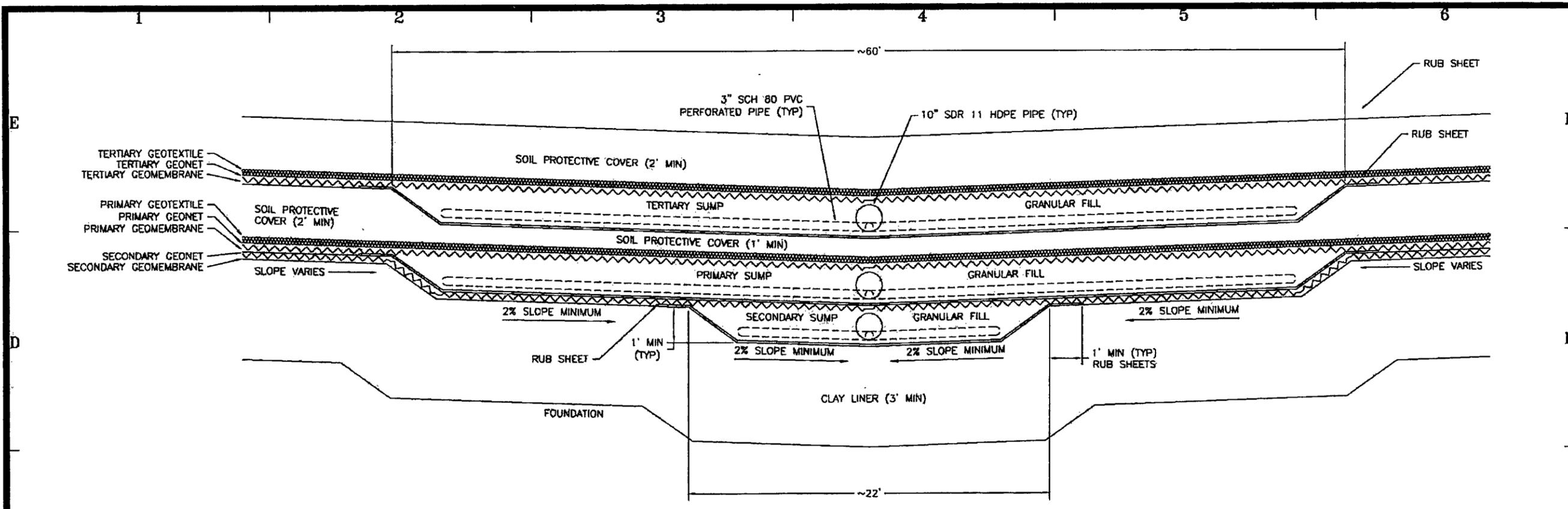


ENERGYSOLUTIONS
ENERGYSOLUTIONS "CLIVE" FACILITY
MIXED WASTE EMBANKMENT
LINER SECTIONS & DETAILS
CLIVE, UTAH

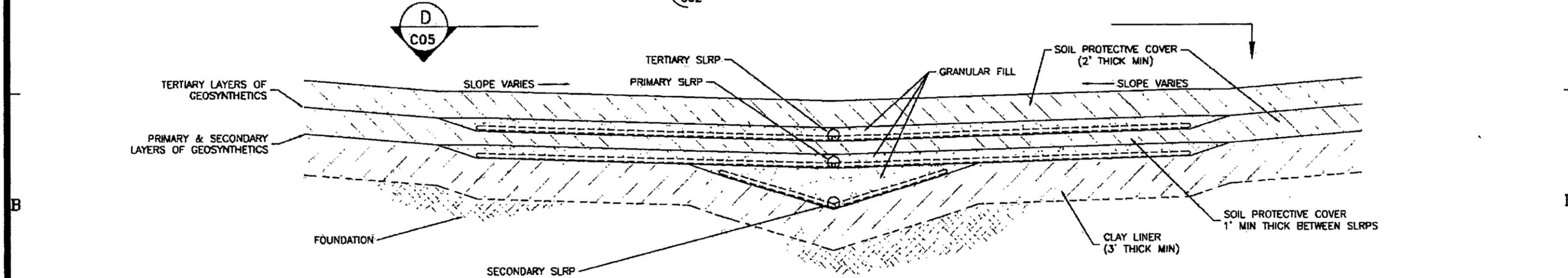
**FINAL
DRAWING**

D. BOOTH
G. DUTSON
D. BOOTH
AS NOTED 06/17/11
**11009
C02**

DATE 6/17/11 FOR LICENSE AMENDMENT BY DESCRIPTION OF CHANGE



H N-S EXPLODED SECTION THROUGH SLRP
C02 MTS



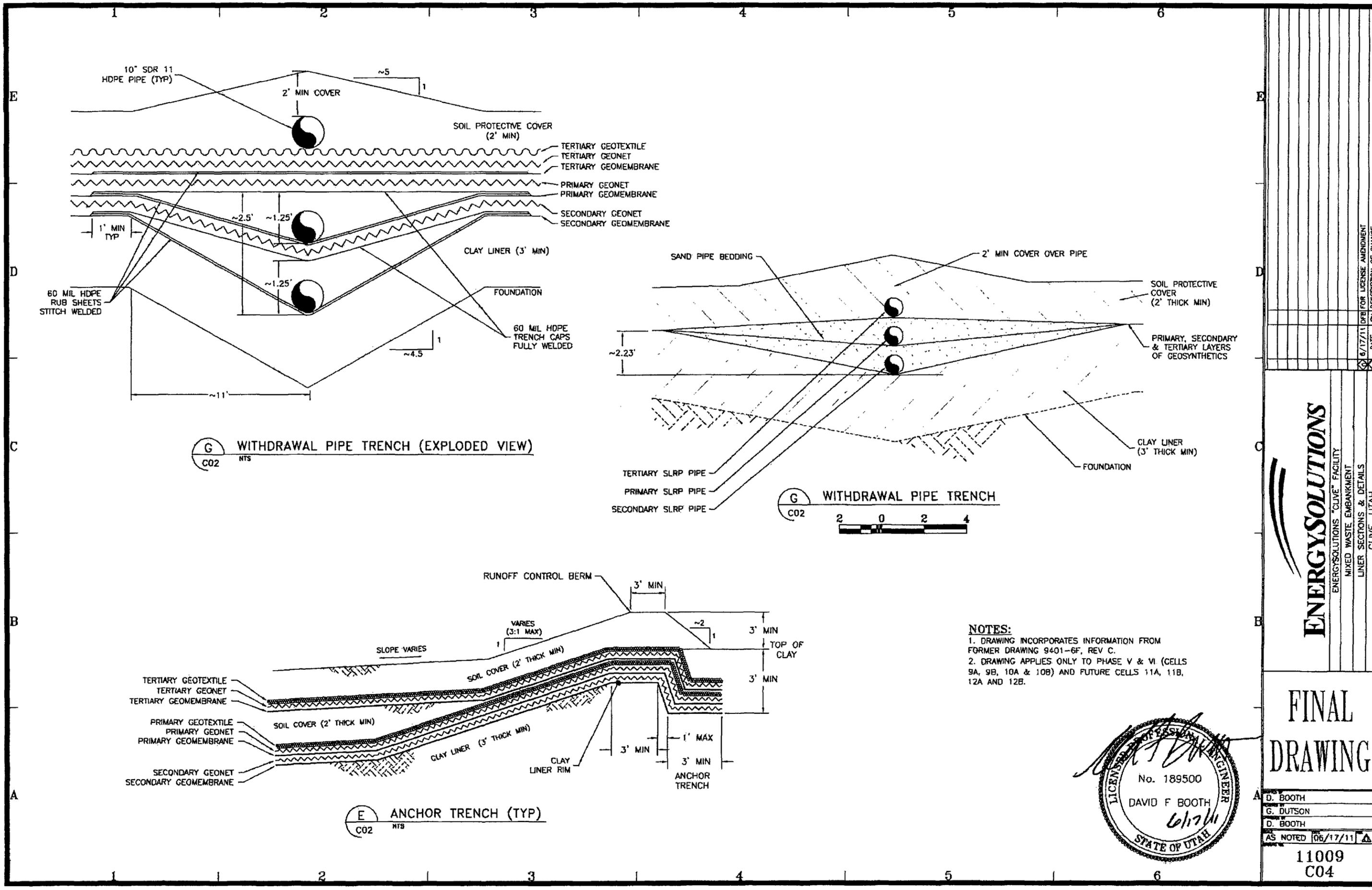
H N-S CROSS SECTION THROUGH SLRP
C02

- NOTES:**
1. DRAWING INCORPORATES INFORMATION FROM FORMER DRAWING 9401-6C, REV E.
 2. DRAWING APPLIES ONLY TO PHASE V & VI CONSTRUCTION (CELLS 9A, 9B, 10A & 10B) AND FUTURE CELLS 11A, 11B, 12A AND 12B.
 3. ALL SLOPES ~3:1 UNLESS OTHERWISE NOTED.
 4. RUB SHEETS SHALL BE 60 MIL HDPE STITCH WELDED TO UNDERLYING GEOMEMBRANES.

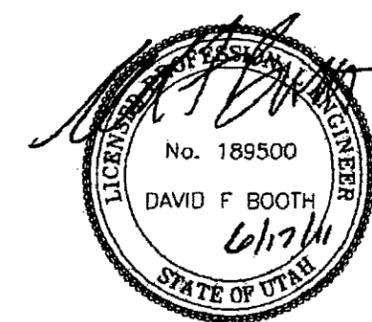


ENERGYSOLUTIONS	
ENERGYSOLUTIONS "CLIVE" FACILITY MIXED WASTE EMBANKMENT	
LINER SECTIONS & DETAILS CLIVE, UTAH	
FINAL DRAWING	
D. BOOTH	AS NOTED 06/17/11
G. DUTSON	
D. BOOTH	
11009 C03	

6/17/11 DATE FOR LICENSE AMENDMENT
 BY DESCRIPTION OF CHANGE



NOTES:
 1. DRAWING INCORPORATES INFORMATION FROM FORMER DRAWING 9401-6F, REV C.
 2. DRAWING APPLIES ONLY TO PHASE V & VI (CELLS 9A, 9B, 10A & 10B) AND FUTURE CELLS 11A, 11B, 12A AND 12B.

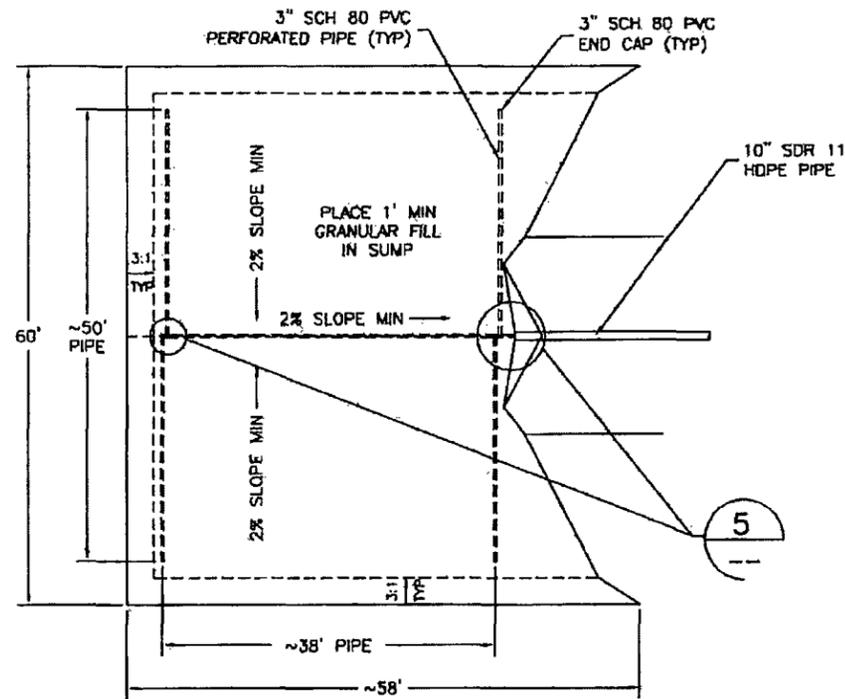


ENERGYSOLUTIONS
 ENERGYSOLUTIONS "CLIVE" FACILITY
 MIXED WASTE EMBANKMENT
 LINER SECTIONS & DETAILS
 CLIVE, UTAH

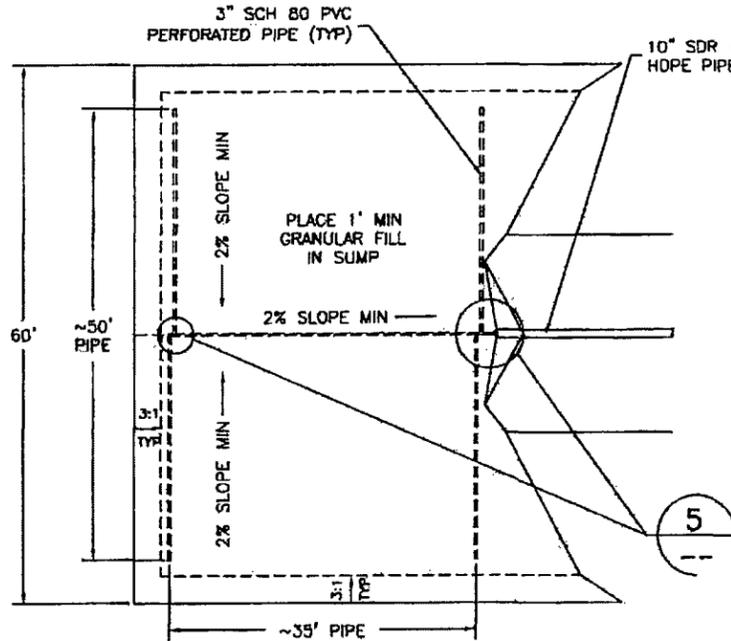
FINAL DRAWING

D. BOOTH
 G. DUTSON
 D. BOOTH
 AS NOTED 06/17/11
 11009
 C04

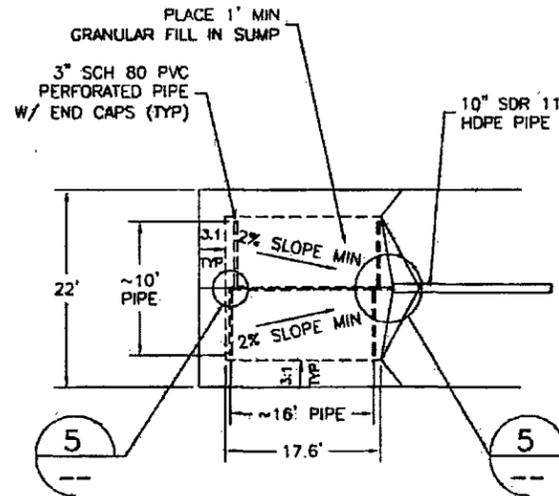
DATE 6/17/11
 BY DESCRIPTION OF CHANGE



TERTIARY SLRP PLAN

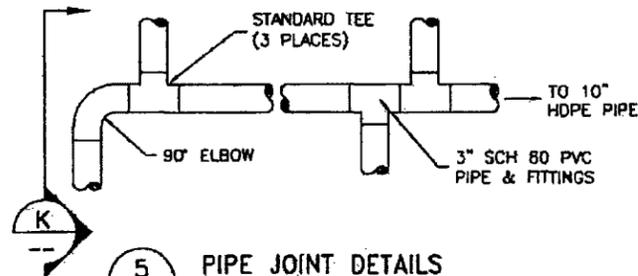


PRIMARY SLRP PLAN

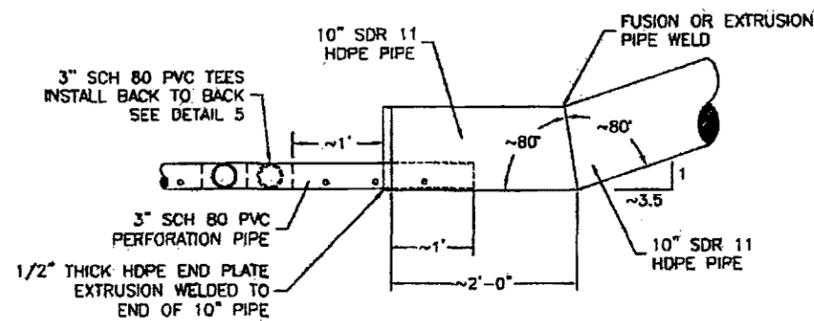


SECONDARY SLRP PLAN

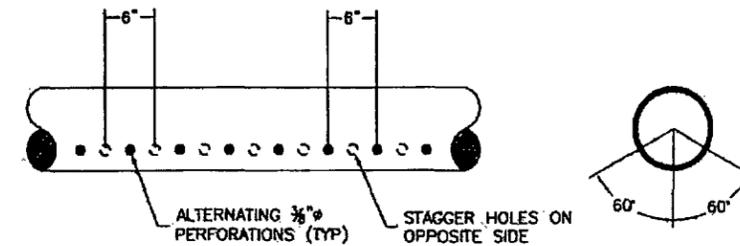
D SLRP SUMP PLAN VIEW
C02 NTS



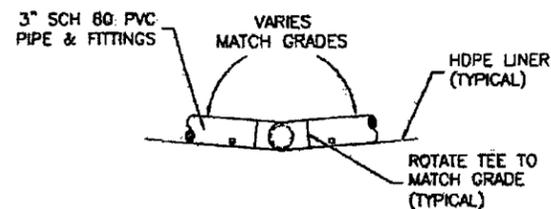
5 PIPE JOINT DETAILS
PLAN VIEW-NTS



C 3' TO 10" PIPE CONNECTION DETAIL
C02 NTS

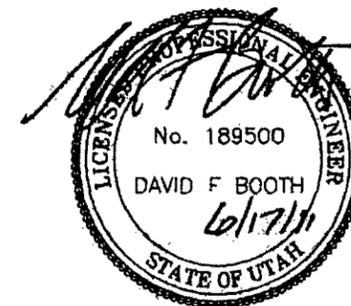


PIPE PERFORATION DETAIL
NTS



K PIPE JOINT SECTION
NTS

- NOTES:**
- DRAWING INCORPORATES INFORMATION FROM FORMER DRAWING 9401-6A, REV. E.
 - ALL PVC JOINTS TO BE CONNECTED WITH STAINLESS STEEL SCREWS (#12 x 1"). MINIMUM OF TWO (2) PER JOINT, INSTALLED ON OPPOSITE SIDES OF THE PIPE. DO NOT USE PVC CEMENT.
 - REMOVE ALL CUTTINGS AND TRIMMINGS FROM PIPES.
 - DRAWING APPLIES ONLY TO PHASE V & VI (CELLS 9A, 9B, 10A & 10B) AND FUTURE CELLS 11A, 11B, 12A AND 12B.



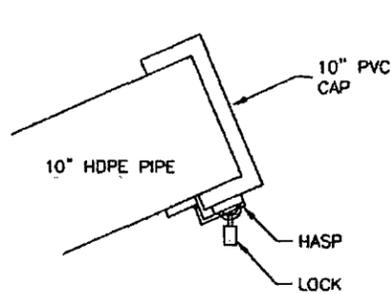
ENERGYSOLUTIONS
ENERGYSOLUTIONS "CLIVE" FACILITY
MIXED WASTE EMBANKMENT
LINER SECTIONS & DETAILS
CLIVE, UTAH

**FINAL
DRAWING**

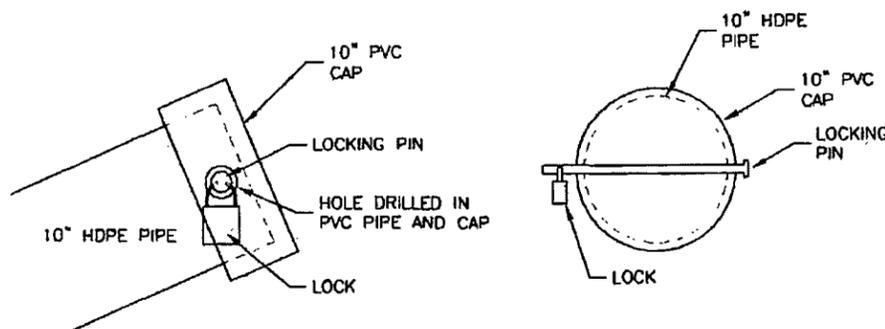
D. BOOTH
G. DUTSON
D. BOOTH
AS NOTED 06/17/11

11009
C05

DATE 6/17/11
BY DESCRIPTION OF CHANGE

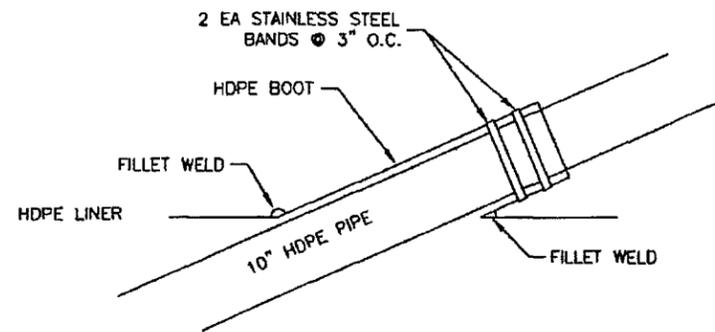


TYPE I

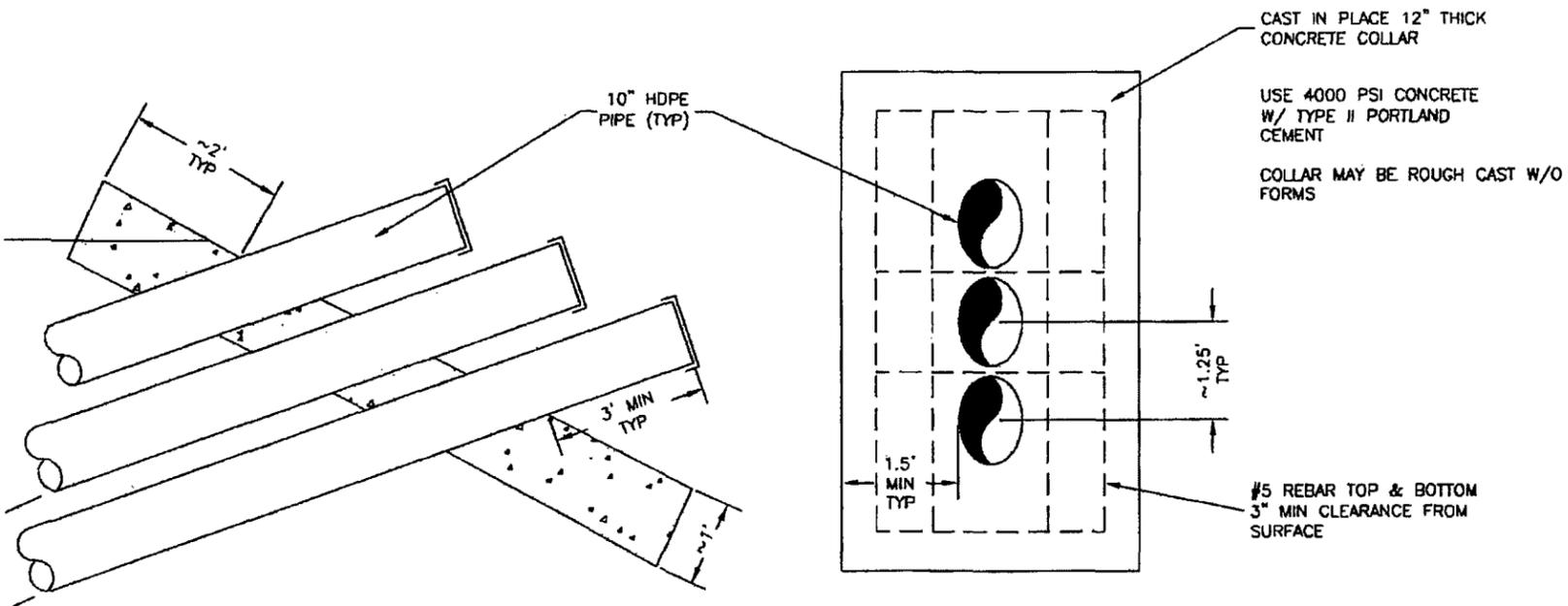


TYPE II

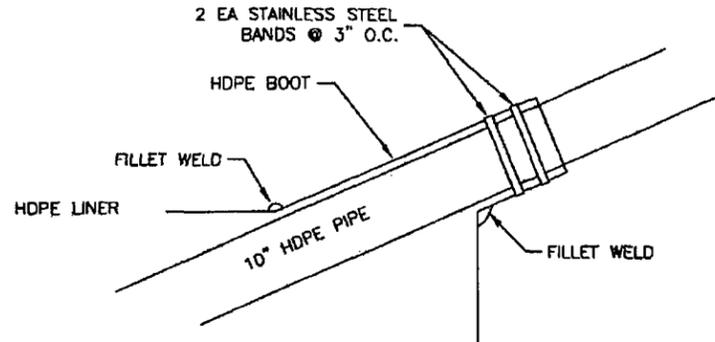
1 PIPE CAP DETAIL
C02 NOT TO SCALE



3 PIPE BOOT DETAIL
C02 NOT TO SCALE

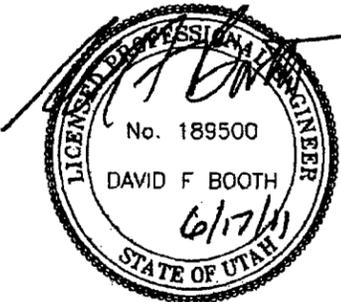


2 PIPE SUPPORT DETAIL
C02 NOT TO SCALE



4 PIPE BOOT DETAIL
C02 NOT TO SCALE

NOTES:
 1. DRAWING INCORPORATES INFORMATION FROM FORMER DRAWING 9401-6D, REV E.
 2. DRAWING APPLIES ONLY TO PHASE V & VI (CELLS 9A, 9B, 10A & 10B) AND FUTURE CELLS 11A, 11B, 12A AND 12B.



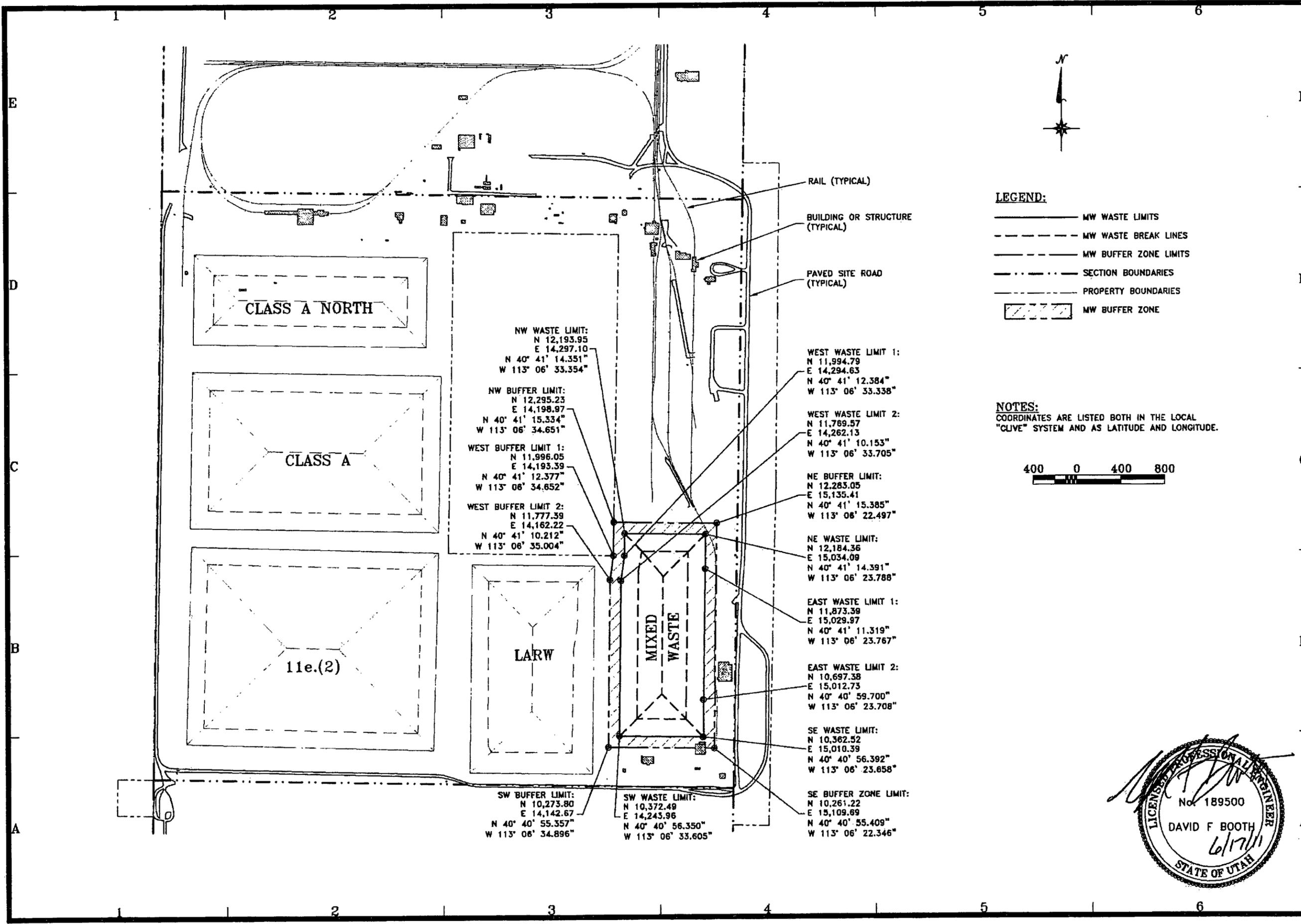
ENERGYSOLUTIONS
 ENERGYSOLUTIONS "CLIVE" FACILITY
 MIXED WASTE EMBANKMENT
 LINER SECTIONS & DETAILS
 CLIVE, UTAH

**FINAL
DRAWING**

D. BOOTH
 G. OUTSON
 D. BOOTH
 AS NOTED 06/17/11

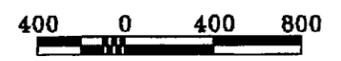
11009
C06

DATE 6/17/11 FOR LICENSE AMENDMENT BY DESCRIPTION OF CHANGE



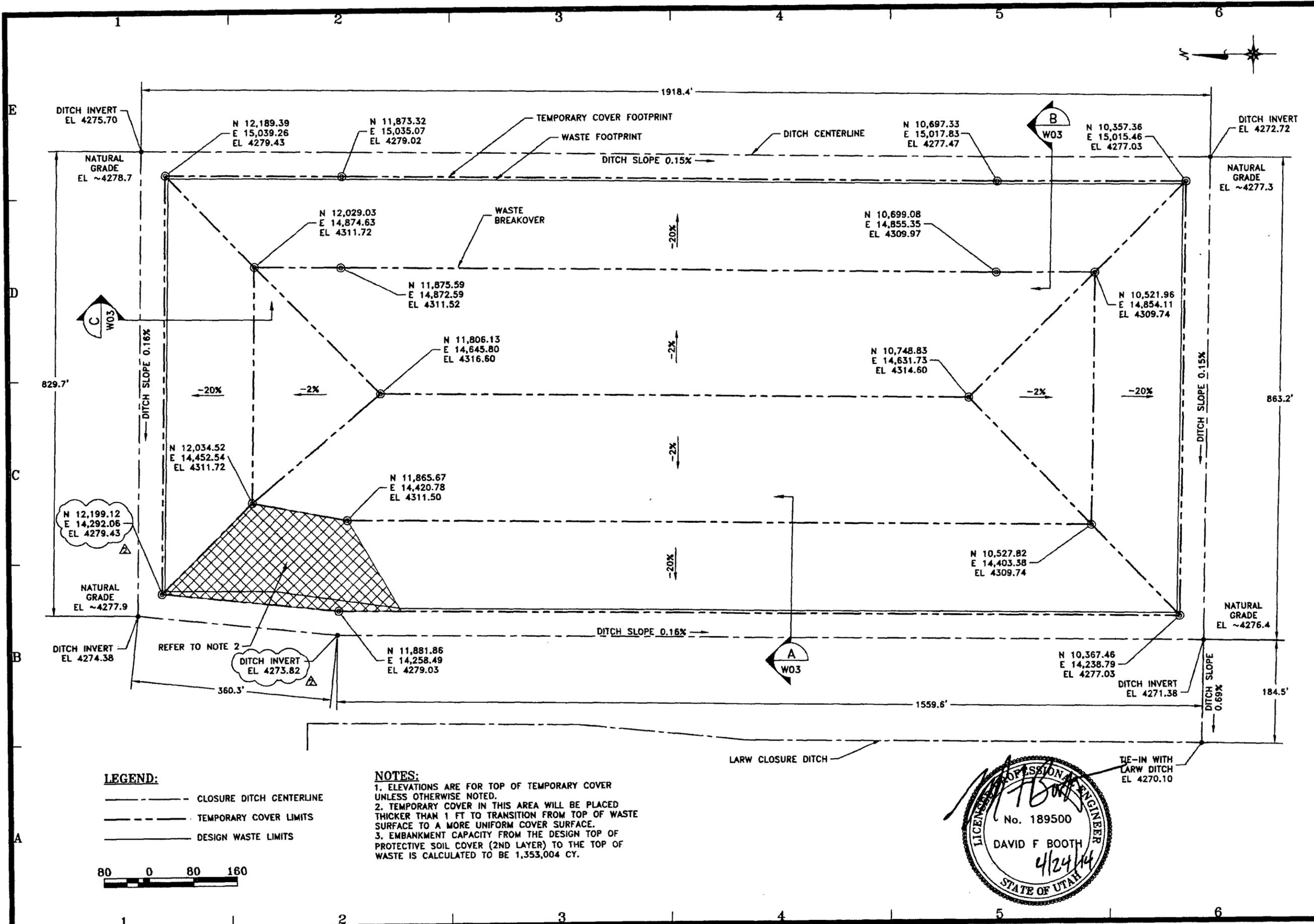
- LEGEND:**
- MW WASTE LIMITS
 - - - - MW WASTE BREAK LINES
 - MW BUFFER ZONE LIMITS
 - · - · - SECTION BOUNDARIES
 - - - - PROPERTY BOUNDARIES
 - ▨ MW BUFFER ZONE

NOTES:
COORDINATES ARE LISTED BOTH IN THE LOCAL "CLIVE" SYSTEM AND AS LATITUDE AND LONGITUDE.



<p>ENERGYSOLUTIONS "CLIVE" FACILITY MIXED WASTE EMBANKMENT</p>	<p>EMBAKMENT LOCATION MAP & BUFFER ZONE CLIVE, UTAH</p>						
<p>FINAL DRAWING</p>							
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">B. DICK</td> <td style="width: 50%;">AS NOTED 06/17/11</td> </tr> <tr> <td>G. DUTSON</td> <td></td> </tr> <tr> <td>D. BOOTH</td> <td></td> </tr> </table>		B. DICK	AS NOTED 06/17/11	G. DUTSON		D. BOOTH	
B. DICK	AS NOTED 06/17/11						
G. DUTSON							
D. BOOTH							
<p>11009 U01</p>							

DATE: 6/17/11 BY: DESCRIPTION OF CHANGE



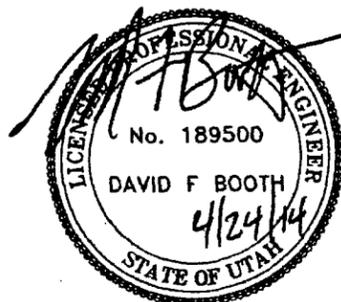
4/24/14 (DFB) CORRECTED NE CORNER COORDINATE AND WEST DITCH MID POINT ELEVATION
 9/28/12 (DFB) REVISED WASTE CAPACITY BASED ON MORE ACCURATE VOLUME CALCULATION
 8/17/11 (DFB) FOR LICENSE AMENDMENT
 DATE BY DESCRIPTION OF CHANGE

ENERGYSOLUTIONS
 ENERGYSOLUTIONS "CLIVE" FACILITY
 MIXED WASTE EMBANKMENT
 TEMPORARY COVER SURFACE & CLOSURE DITCH CONTROLS
 CLIVE, UTAH

FINAL DRAWING

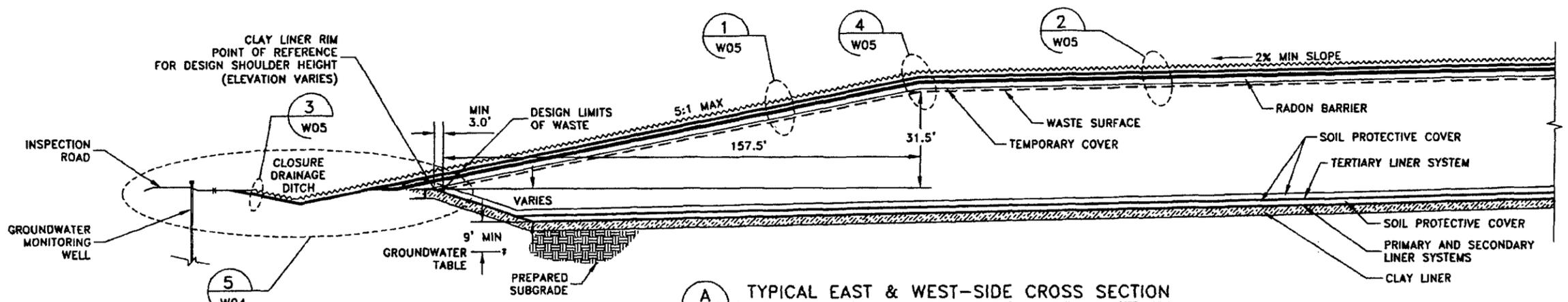
B. DICK
G. DUTSON
D. BOOTH
AS NOTED 06/17/11

11009
W02

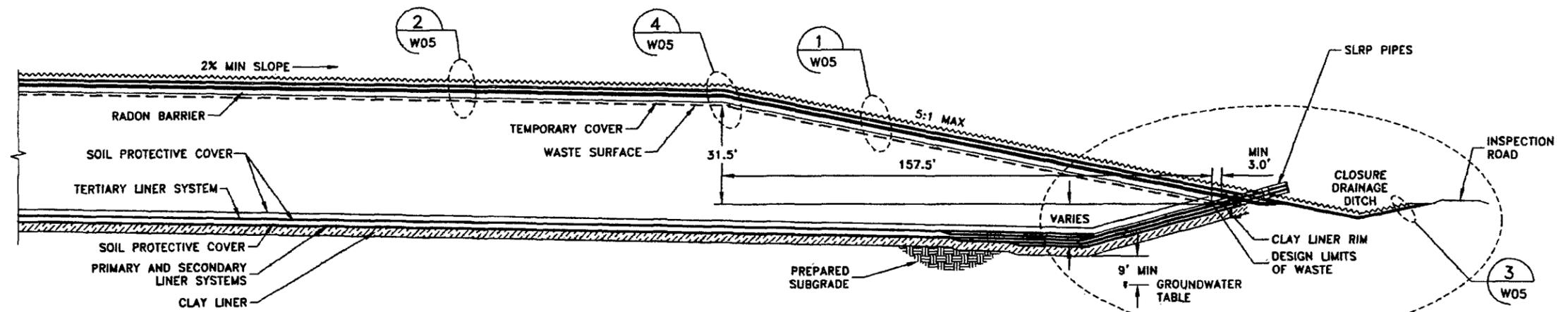


NOTES:
 1. ELEVATIONS ARE FOR TOP OF TEMPORARY COVER UNLESS OTHERWISE NOTED.
 2. TEMPORARY COVER IN THIS AREA WILL BE PLACED THICKER THAN 1 FT TO TRANSITION FROM TOP OF WASTE SURFACE TO A MORE UNIFORM COVER SURFACE.
 3. EMBANKMENT CAPACITY FROM THE DESIGN TOP OF PROTECTIVE SOIL COVER (2ND LAYER) TO THE TOP OF WASTE IS CALCULATED TO BE 1,353,004 CY.

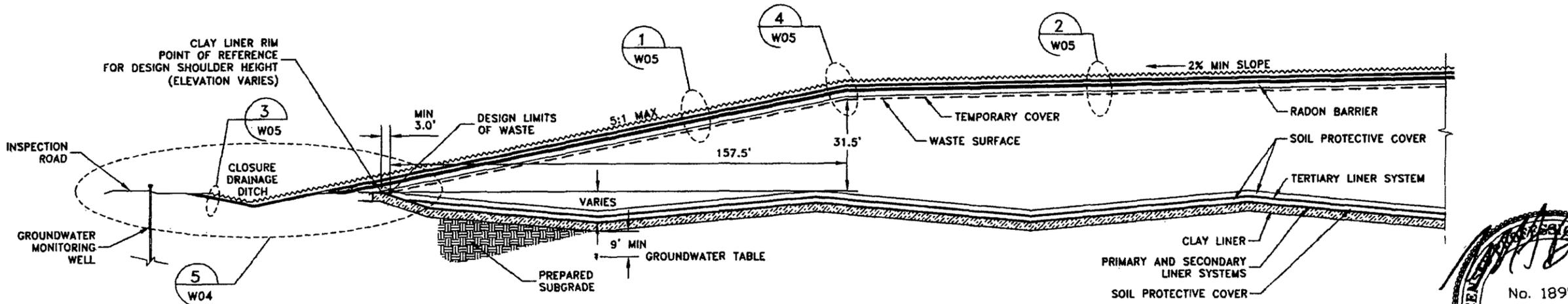
LEGEND:
 - - - - - CLOSURE DITCH CENTERLINE
 - - - - - TEMPORARY COVER LIMITS
 - - - - - DESIGN WASTE LIMITS



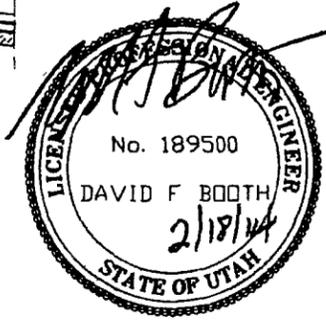
A TYPICAL EAST & WEST-SIDE CROSS SECTION
 W01 SCALE: 1" = 40'



B TYPICAL EAST & WEST-SIDE CROSS SECTION AT SUMP
 W01 SCALE: 1" = 40'



C TYPICAL NORTH & SOUTH-SIDE CROSS SECTION
 W01 SCALE: 1" = 40'



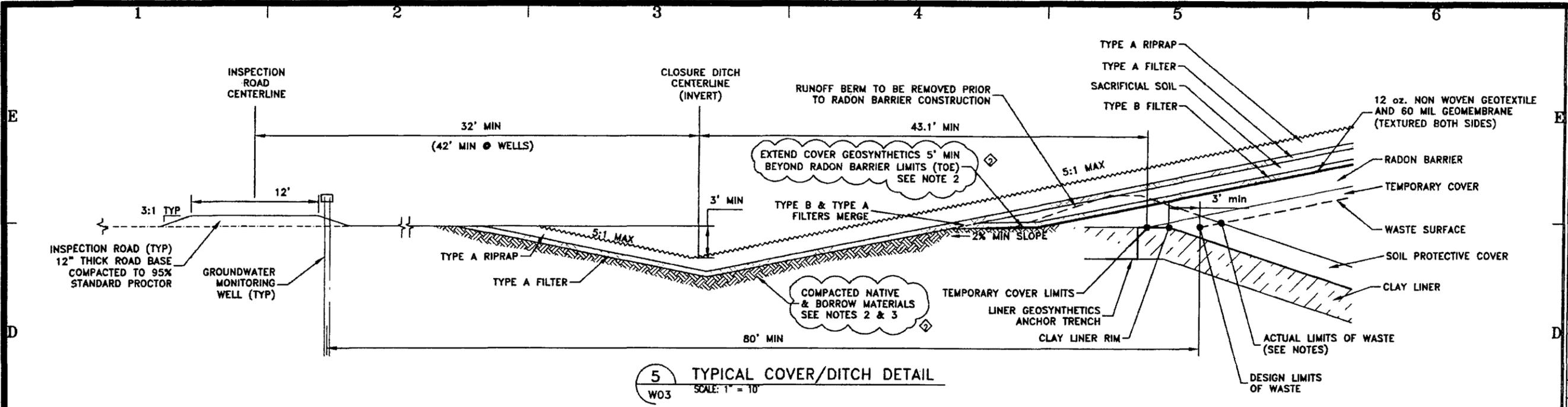
ENERGYSOLUTIONS
 ENERGYSOLUTIONS "CLIVE" FACILITY
 MIXED WASTE EMBANKMENT
 WASTE & FINAL COVER - CROSS SECTIONS
 CLIVE, UTAH

FINAL DRAWING

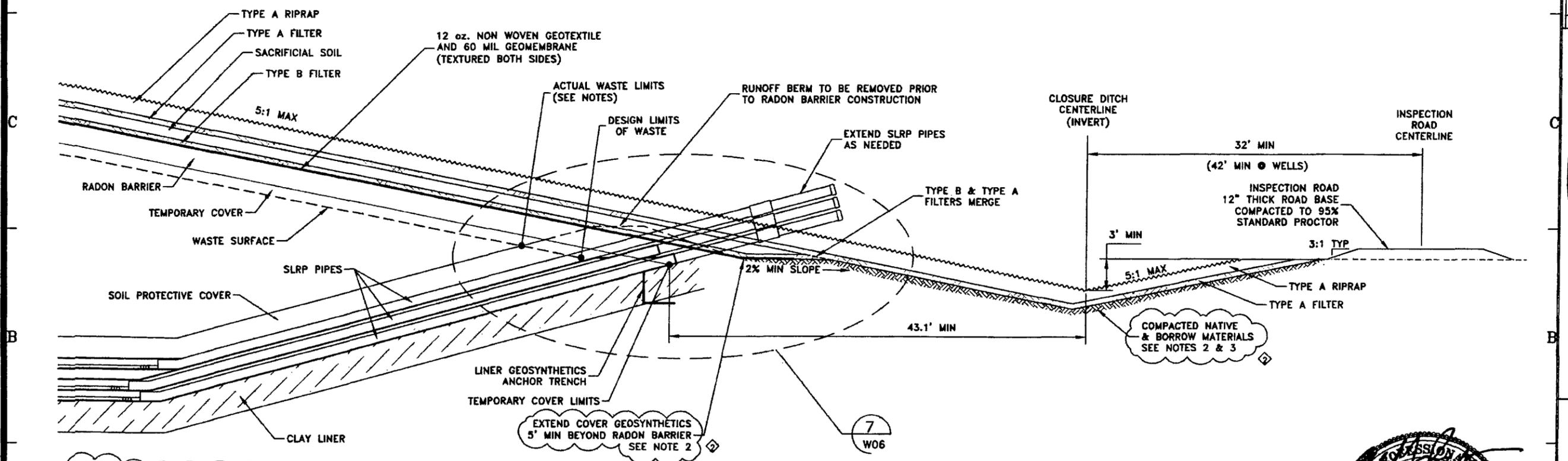
AS NOTED 4/19/11

11009
 W03

2/18/14 DFB DESIGN CHANGE - ELIMINATED COVER GEOSYNTHETICS ANCHOR TRENCH
 5/25/11 DFB FOR LICENSE AMENDMENT
 DATE BY DESCRIPTION OF CHANGE

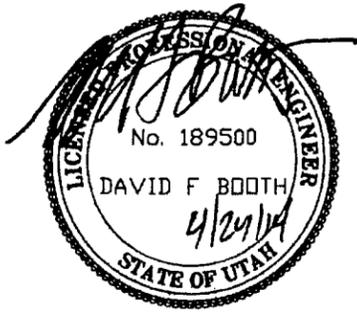


5 TYPICAL COVER/DITCH DETAIL
W03 SCALE: 1" = 10'



6 TYPICAL COVER/DITCH DETAIL @ SLRPs
W03 SCALE: 1" = 10'

NOTES:
 1. DESIGN LIMIT OF WASTE IS CONTROLLED BY THE HORIZONTAL AND VERTICAL LIMITS OF THE CLAY LINER RIM. HOWEVER, THE ACTUAL WASTE LIMIT IS WHERE THE DESIGN WASTE SURFACE AND THE SOIL PROTECTIVE COVER SURFACE INTERSECT (AS SHOWN IN THE SECTIONS ABOVE). SINCE THE SLOPES OF THE LINER AND THE THICKNESS OF THE SOIL PROTECTIVE COVER VARY, THE ACTUAL WASTE LIMIT VARIES SLIGHTLY AS WELL.
 2. EXTEND THE COVER GEOMEMBRANE AND GEOTEXTILE A MINIMUM OF 5' BEYOND THE RADON BARRIER LIMITS (TOE). PRIOR TO INSTALLING THE GEOMEMBRANE, GRADE THE SURFACE TO SLOPE (2% MINIMUM) AWAY FROM THE RADON BARRIER TOE AND COMPACT THE SURFACE WITH A MINIMUM OF 4 PASSES WITH A VIBRATORY SMOOTH DRUM COMPACTOR.
 3. THE CLOSURE DRAINAGE DITCH IS CONSTRUCTED (EXCAVATED) INTO NATIVE CLAY MATERIAL IF FILL (BORROW) IS REQUIRED, USE APPROVED NATIVE CLAY MATERIAL PLACED IN MAXIMUM 9" THICK LOOSE LIFTS AND COMPACTED TO 95% OF A STANDARD PROCTOR. COMPACT THE FINAL DITCH SURFACE WITH A MINIMUM OF 4 PASSES WITH A VIBRATORY SMOOTH DRUM COMPACTOR.



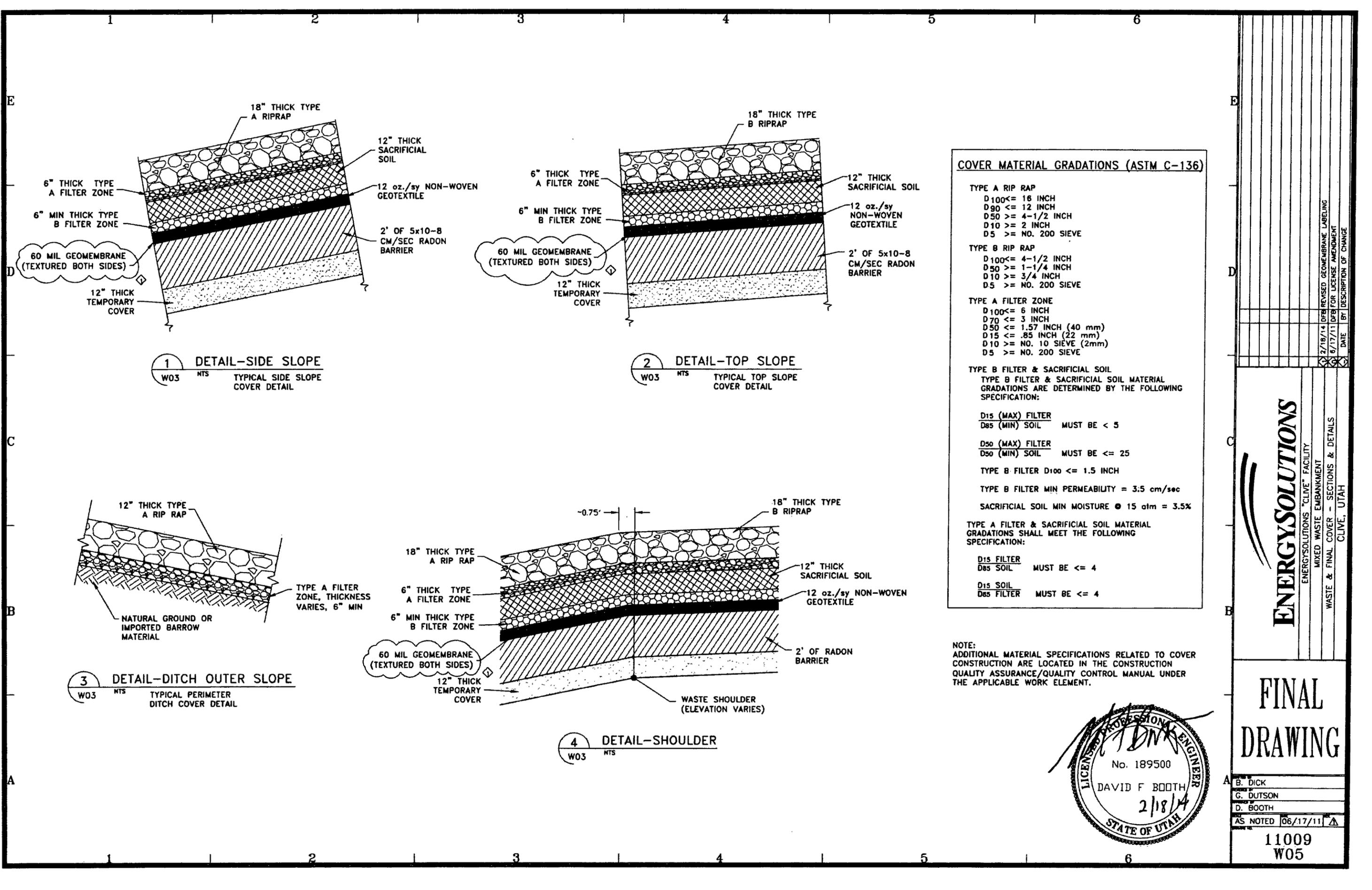
ENERGYSOLUTIONS
 ENERGY SOLUTIONS "CLIVE" FACILITY
 MIXED WASTE EMBANKMENT
 WASTE & FINAL COVER - SECTIONS & DETAILS
 CLIVE, UTAH

FINAL DRAWING

B. DICK
 G. DUTSON
 D. BOOTH
 AS NOTED 06/17/11

11009
 W04

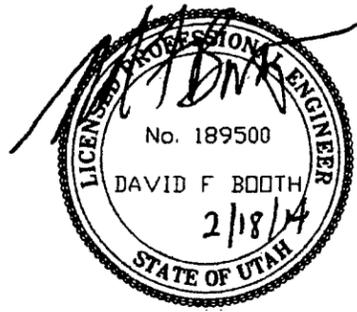
4/24/14 DFB ADDED DITCH FOUNDATION SPECIFICATIONS
 2/18/14 DFB DESIGN CHANGE - ELIMINATED COVER GEOSYNTHETICS ANCHOR TRENCH
 6/17/11 DFB FOR LICENSE AMENDMENT
 DATE BY DESCRIPTION OF CHANGE



COVER MATERIAL GRADATIONS (ASTM C-136)

TYPE A RIP RAP	
D100	≤ 16 INCH
D90	≤ 12 INCH
D50	≥ 4-1/2 INCH
D10	≥ 2 INCH
D5	≥ NO. 200 SIEVE
TYPE B RIP RAP	
D100	≤ 4-1/2 INCH
D50	≥ 1-1/4 INCH
D10	≥ 3/4 INCH
D5	≥ NO. 200 SIEVE
TYPE A FILTER ZONE	
D100	≤ 6 INCH
D70	≤ 3 INCH
D50	≤ 1.57 INCH (40 mm)
D15	≤ .85 INCH (22 mm)
D10	≥ NO. 10 SIEVE (2mm)
D5	≥ NO. 200 SIEVE
TYPE B FILTER & SACRIFICIAL SOIL	
TYPE B FILTER & SACRIFICIAL SOIL MATERIAL GRADATIONS ARE DETERMINED BY THE FOLLOWING SPECIFICATION:	
D15 (MAX) FILTER	
D85 (MIN) SOIL	MUST BE < 5
D50 (MAX) FILTER	
D50 (MIN) SOIL	MUST BE ≤ 25
TYPE B FILTER D100 ≤ 1.5 INCH	
TYPE B FILTER MIN PERMEABILITY = 3.5 cm/sec	
SACRIFICIAL SOIL MIN MOISTURE @ 15 atm = 3.5%	
TYPE A FILTER & SACRIFICIAL SOIL MATERIAL GRADATIONS SHALL MEET THE FOLLOWING SPECIFICATION:	
D15 FILTER	
D85 SOIL	MUST BE ≤ 4
D15 SOIL	
D85 FILTER	MUST BE ≤ 4

NOTE:
ADDITIONAL MATERIAL SPECIFICATIONS RELATED TO COVER CONSTRUCTION ARE LOCATED IN THE CONSTRUCTION QUALITY ASSURANCE/QUALITY CONTROL MANUAL UNDER THE APPLICABLE WORK ELEMENT.

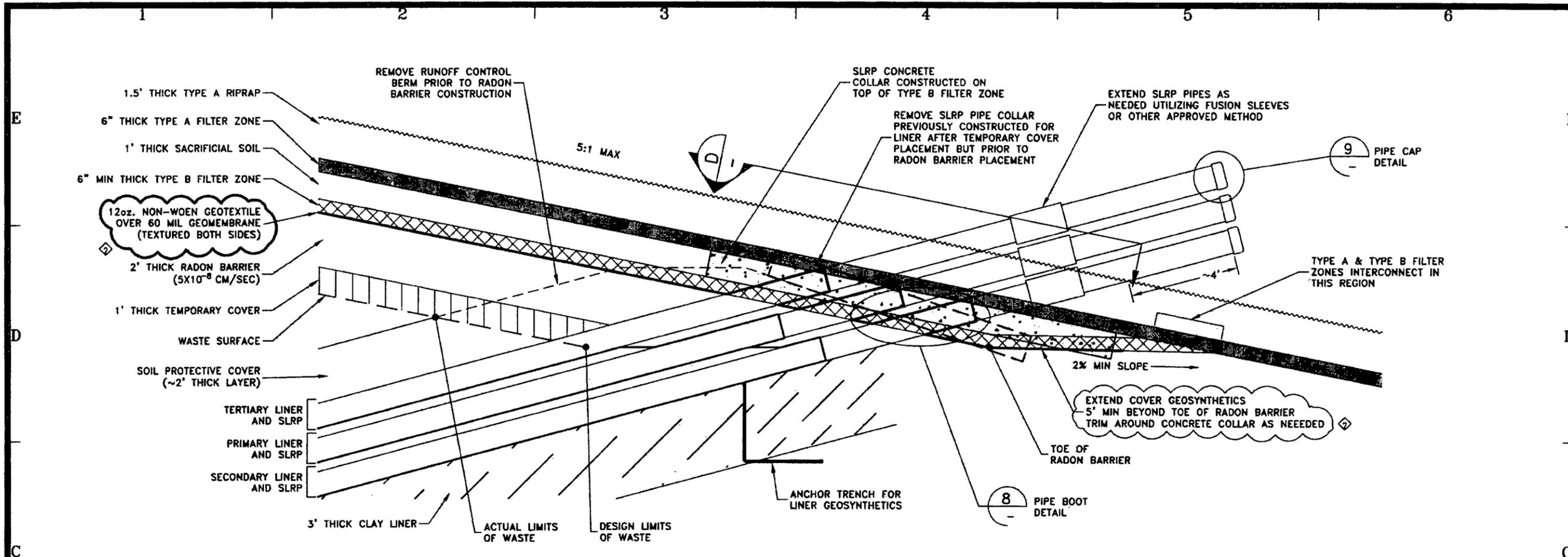


2/18/14 DFB REVISED GEOMEMBRANE LABELING
 6/17/11 DFB FOR LICENSE AMENDMENT
 DATE BY DESCRIPTION OF CHANGE

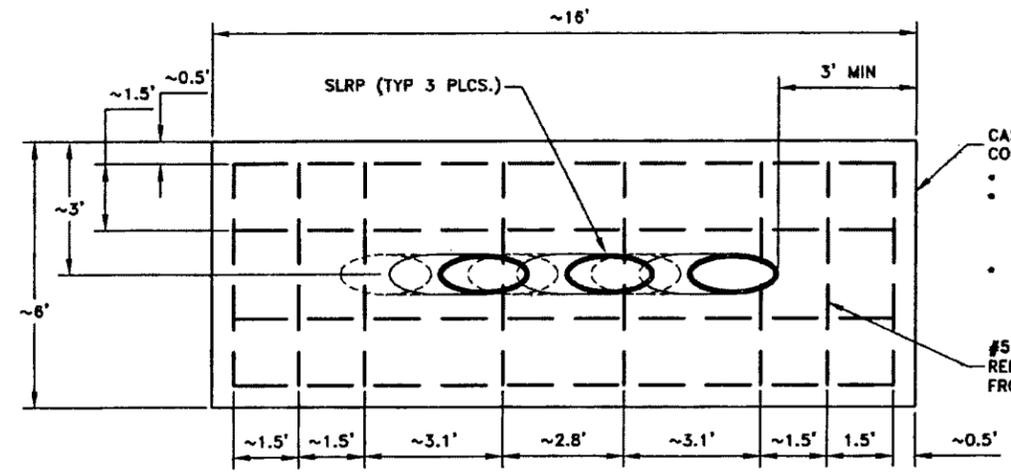
ENERGYSOLUTIONS
 ENERGY SOLUTIONS "CLIVE" FACILITY
 MIXED WASTE EMBANKMENT
 WASTE & FINAL COVER - SECTIONS & DETAILS
 CLIVE, UTAH

FINAL DRAWING

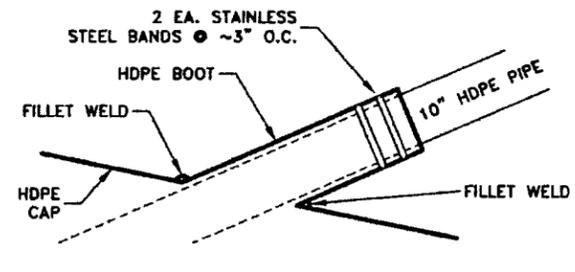
A. B. DICK	AS NOTED 06/17/11
G. DUTSON	
D. BOOTH	
11009 W05	



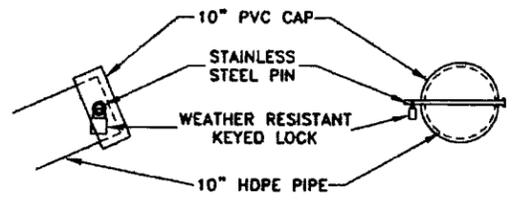
7 SUMP PIPE EXTENSION SECTION
 SCALE: 1" = 4'



D SLRP CONCRETE COLLAR DETAIL
 NTS



8 PIPE BOOT DETAIL
 NTS

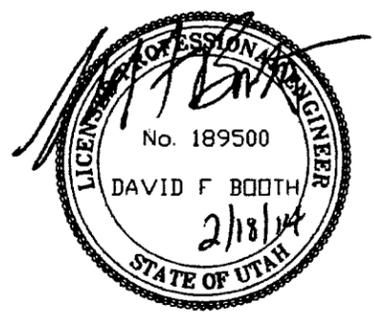


9 PIPE CAP DETAIL
 NTS

NOTE:
 REBAR SPACING IS APPROXIMATE AND MAY NEED TO BE FIELD ADJUSTED TO FIT EXISTING SLRP PIPES.

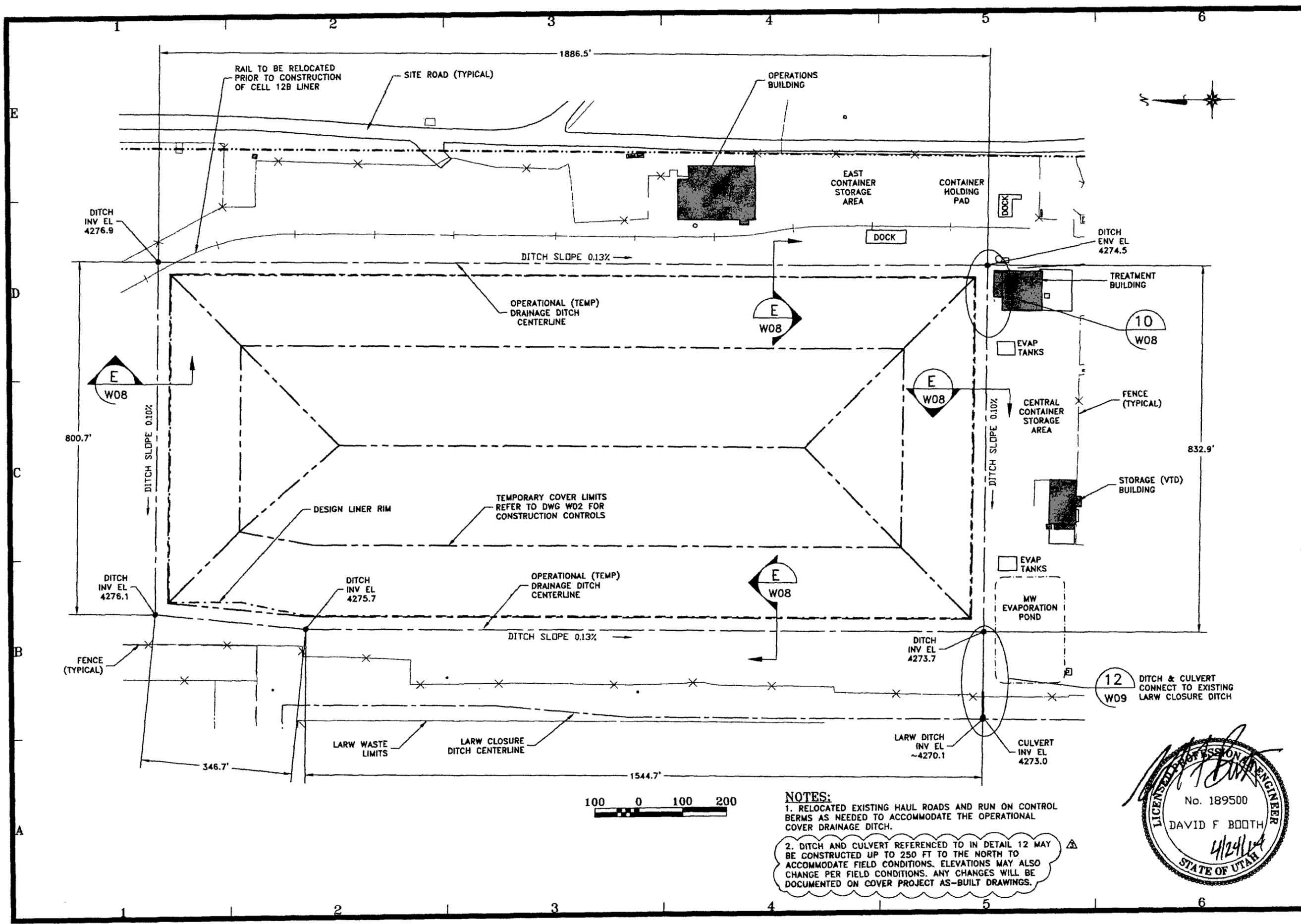
2/18/14	DPB	DESIGN CHANGE - ELIMINATED COVER GEOSYNTHETICS ANCHOR TRENCH
10/2/12	DPB	REVISED PIPE CONCRETE COLLAR DETAILS
8/17/11	DPB	FOR LICENSE AMENDMENT
DATE	BY	DESCRIPTION OF CHANGE

ENERGYSOLUTIONS
 ENERGY SOLUTIONS "CLIVE" FACILITY
 MIXED WASTE EMBANKMENT
 WASTE & FINAL COVER - SECTIONS & DETAILS
 CLIVE, UTAH

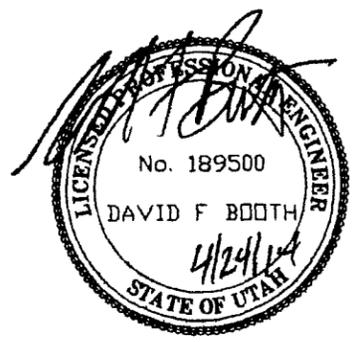


FINAL DRAWING

A	B. DICK
	G. DUTSON
	D. BOOTH
	AS NOTED 06/17/11
	11009 W06



NOTES:
 1. RELOCATED EXISTING HAUL ROADS AND RUN ON CONTROL BERMS AS NEEDED TO ACCOMMODATE THE OPERATIONAL COVER DRAINAGE DITCH.
 2. DITCH AND CULVERT REFERENCED TO IN DETAIL 12 MAY BE CONSTRUCTED UP TO 250 FT TO THE NORTH TO ACCOMMODATE FIELD CONDITIONS. ELEVATIONS MAY ALSO CHANGE PER FIELD CONDITIONS. ANY CHANGES WILL BE DOCUMENTED ON COVER PROJECT AS-BUILT DRAWINGS.



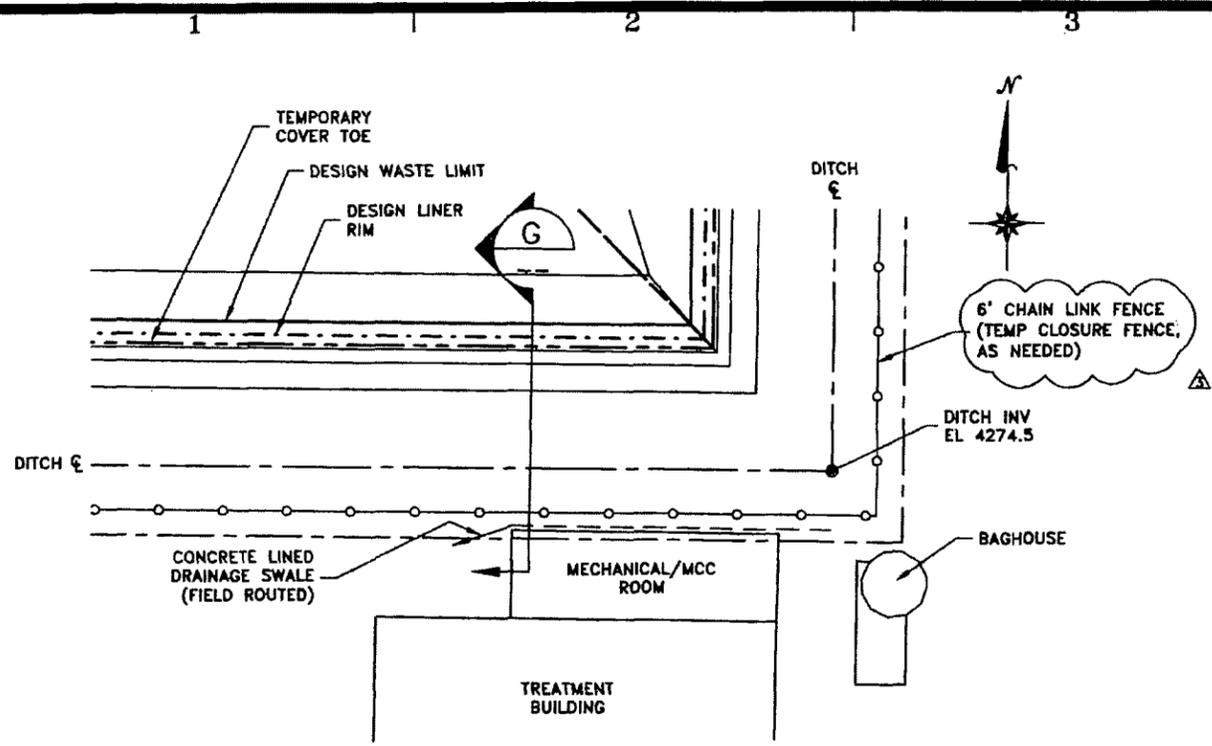
4/24/14 DFB REVISED NOTE 2
 2/18/14 DFB REMOVED LEACHATE EVAPORATION TANKS 228 & 250 (DEMOLISHED IN 2013)
 10/4/12 DFB REMOVED DETAIL REFERENCE 11 & ADDED NOTE 2
 9/17/11 DFB FOR LICENSE AMENDMENT
 DATE BY DESCRIPTION OF CHANGE

ENERGYSOLUTIONS
 ENERGYSOLUTIONS "CLIVE" FACILITY
 MIXED WASTE EMBANKMENT
 OPERATIONAL (TEMPORARY) DITCH PLAN
 CLIVE, UTAH

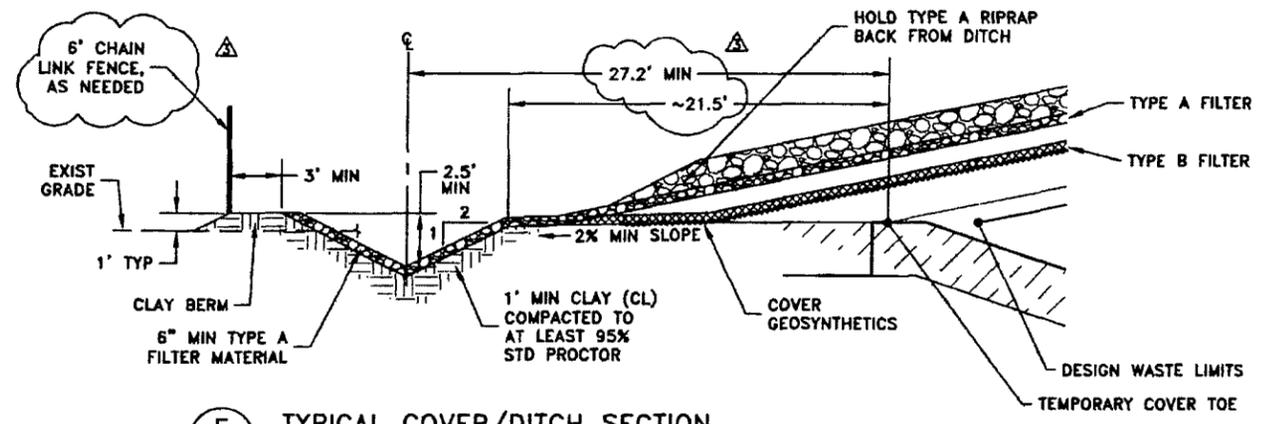
FINAL DRAWING

A	D. BOOTH
	G. DUTSON
	D. BOOTH
	AS NOTED 06/17/11

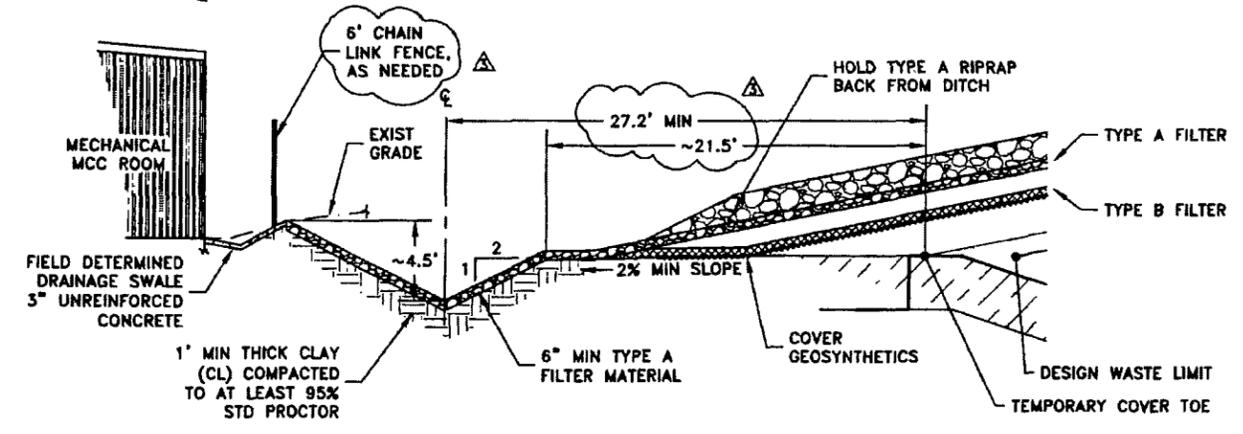
11009
 W07



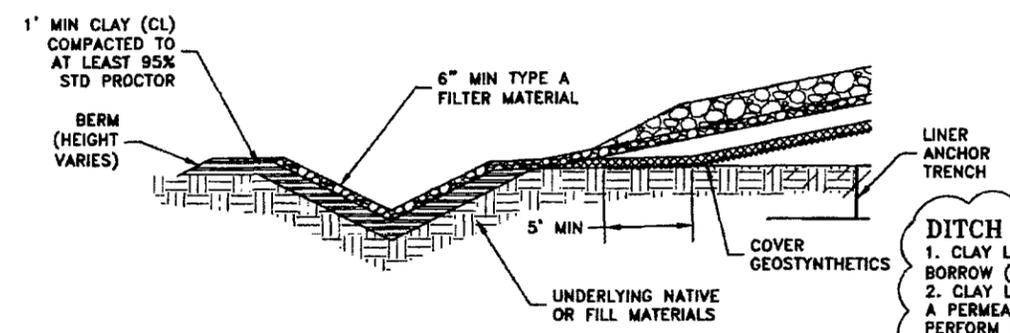
10 DITCH-TREATMENT BUILDING DETAIL
W07 SCALE: 1" = 40'



E TYPICAL COVER/DITCH SECTION
W07 SCALE: 1" = 10'

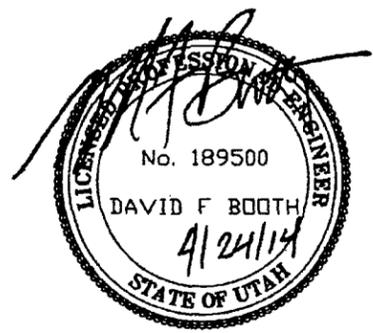


G DITCH-TREATMENT BUILDING SECTION
SCALE: 1" = 10'



ADDITIONAL DITCH CONSTRUCTION DETAILS
(TYPICAL OF PERIMETER & CONNECTOR DITCHES)

DITCH NOTES:
1. CLAY LAYER UNDER DITCH IS NATIVE CLAY BORROW (DOES NOT REQUIRE DEFLOCCULANT).
2. CLAY LAYER UNDER DITCH DOES NOT HAVE A PERMEABILITY REQUIREMENT, DENSITY ONLY. PERFORM DENSITY TESTING AT SAME FREQUENCY AS CLAY LINER.
3. UNDERLYING NATIVE OR FILL MATERIALS SHALL BE COMPACTED WITH A MINIMUM OF 4 PASSES WITH A SMOOTH DRUM VIBRATORY COMPACTOR.



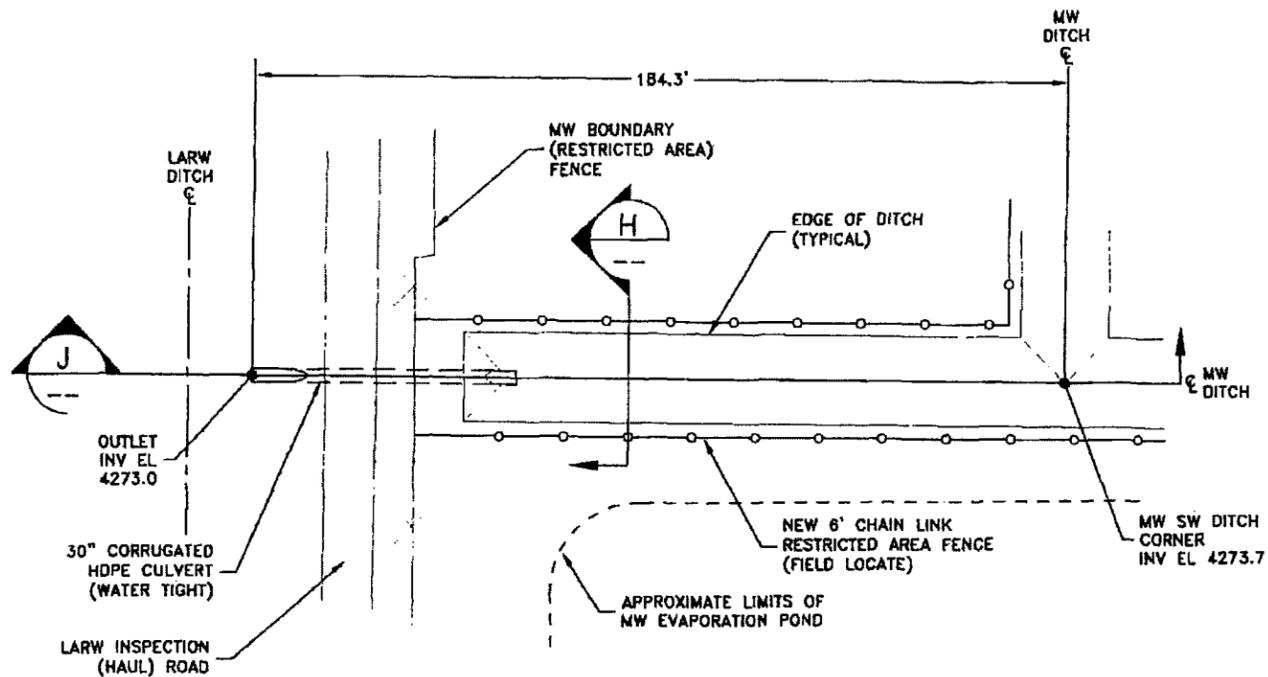
ENERGYSOLUTIONS
ENERGYSOLUTIONS "CLIVE" FACILITY
MIXED WASTE EMBANKMENT
OPERATIONAL (TEMPORARY) DITCH SECTIONS & DETAILS
CLIVE, UTAH

DATE	BY	DESCRIPTION OF CHANGE
3/17/14	DPB	REVISED DITCH FOUNDATION SPECIFICATIONS & TEMPORARY FENCE REQUIREMENT
2/18/14	DPB	DESIGN CHANGE-ELIMINATED COVER GEOSYNTHETICS ANCHOR TRENCH
10/4/13	DPB	REVISED DETAILS 11 AND F; ADDED ADDITIONAL DITCH CONSTRUCTION DETAILS
8/17/11	DPB	FOR LICENSE AMENDMENT

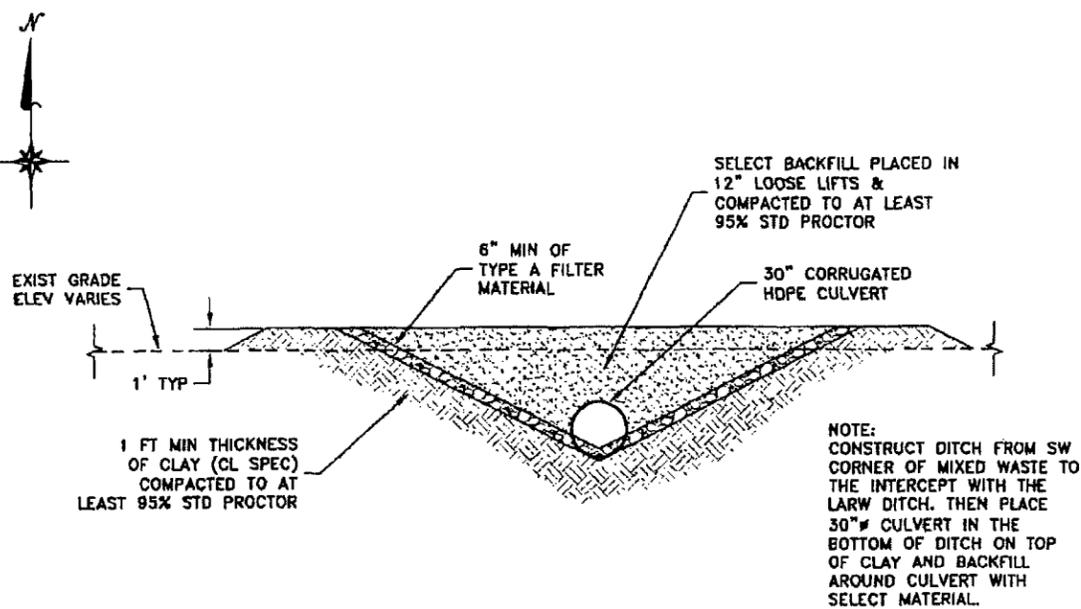
FINAL DRAWING

DESIGNED BY	D. BOOTH
CHECKED BY	G. DUTSON
APPROVED BY	D. BOOTH
AS NOTED	06/17/11

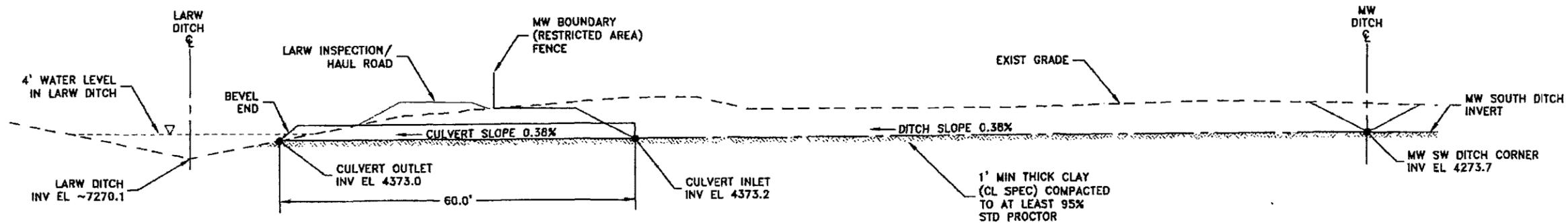
11009
W08



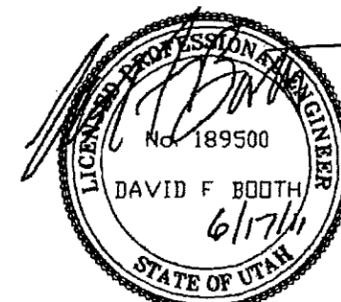
12 DITCH CONNECTION PLAN
W07 SCALE: 1" = 40'



H CONNECTOR DITCH SECTION
SCALE: 1" = 8'



J CONNECTOR DITCH SECTION
SCALE: 1" = 20'



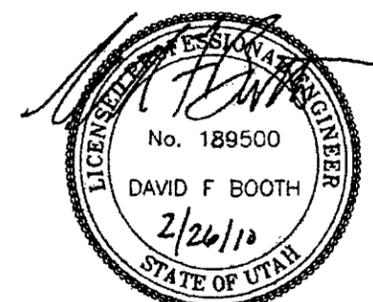
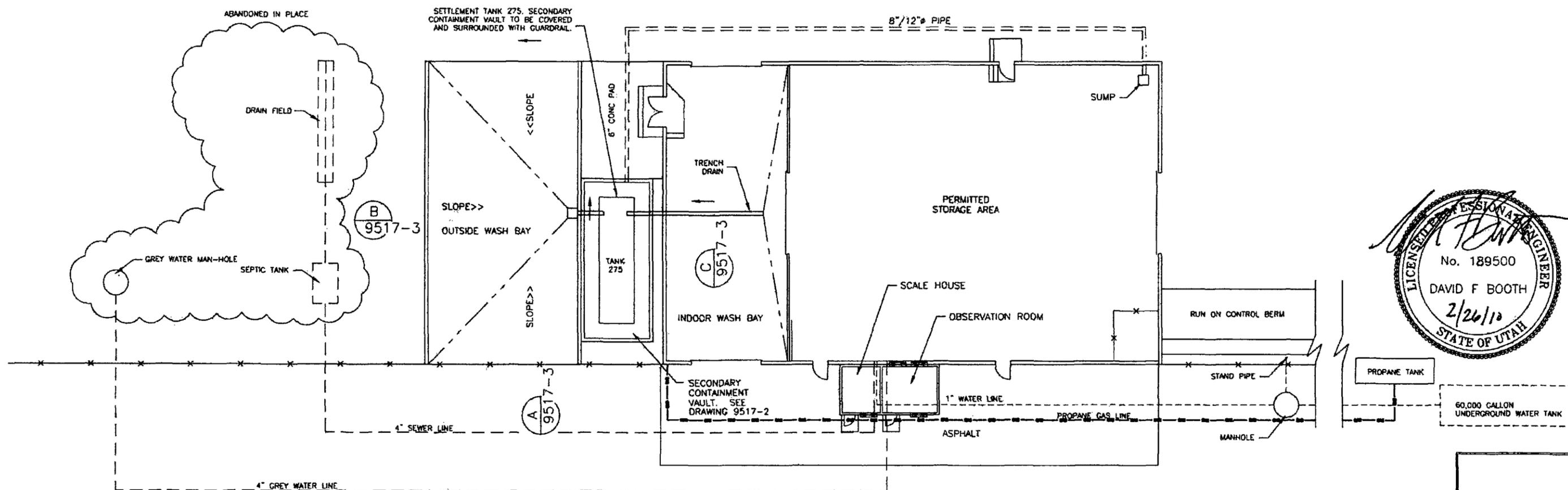
ENERGYSOLUTIONS
ENERGYSOLUTIONS "CLIVE" FACILITY
MIXED WASTE EMBANKMENT
OPERATIONAL (TEMP) CONNECTOR DITCH SECTIONS & DETAILS
CLIVE, UTAH

**FINAL
DRAWING**

D. BOOTH
G. DUTSON
D. BOOTH
AS NOTED 06/17/11

11009
W09

DATE: 6/17/11
BY: DESCRIPTION OF CHANGE



PLAN VIEW
 SCALE IN FEET
 0 10 20

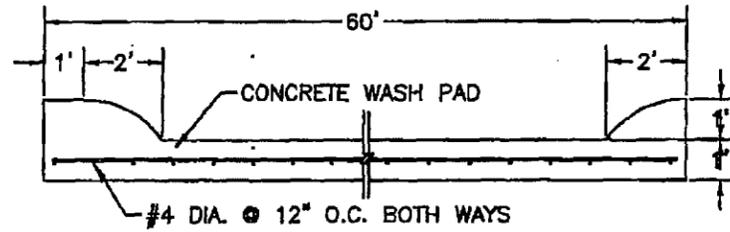
LEGEND
 --- WATER SUPPLY
 --- DIRTY WATER
 --- PROPANE SUPPLY

DATE	INIT.	DESCRIPTION OF CHANGE
10/21/02	SB	RCRA PERMIT RENEWAL
12/18/00	KL	REPLACED TANK
05/27/96	DCC	GENERAL UPDATE
03/21/95	SJP	ADD 2ND CONTAINMENT PIPE
02/26/10	DFB	UPDATED FOR VTD MODIFICATIONS

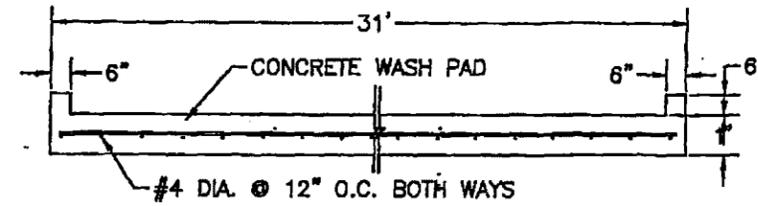


SJP	MIXED WASTE STORAGE BUILDING	AS NOTED	6/16/95
D. BOOTH	BUILDING AND WASH PAD LAYOUT		
D. SHOCKEY	PLAN VIEW		
	CLIVE, UTAH		

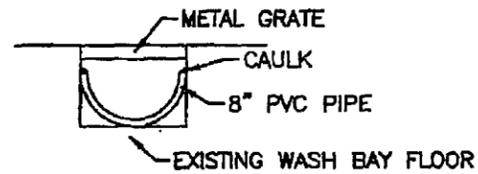
9517-1



A OUTSIDE DECON WASH PAD
9517-1 SCALE 1/2" = 1'



B OUTSIDE DECON WASH PAD
9517-1 SCALE 1/2" = 1'

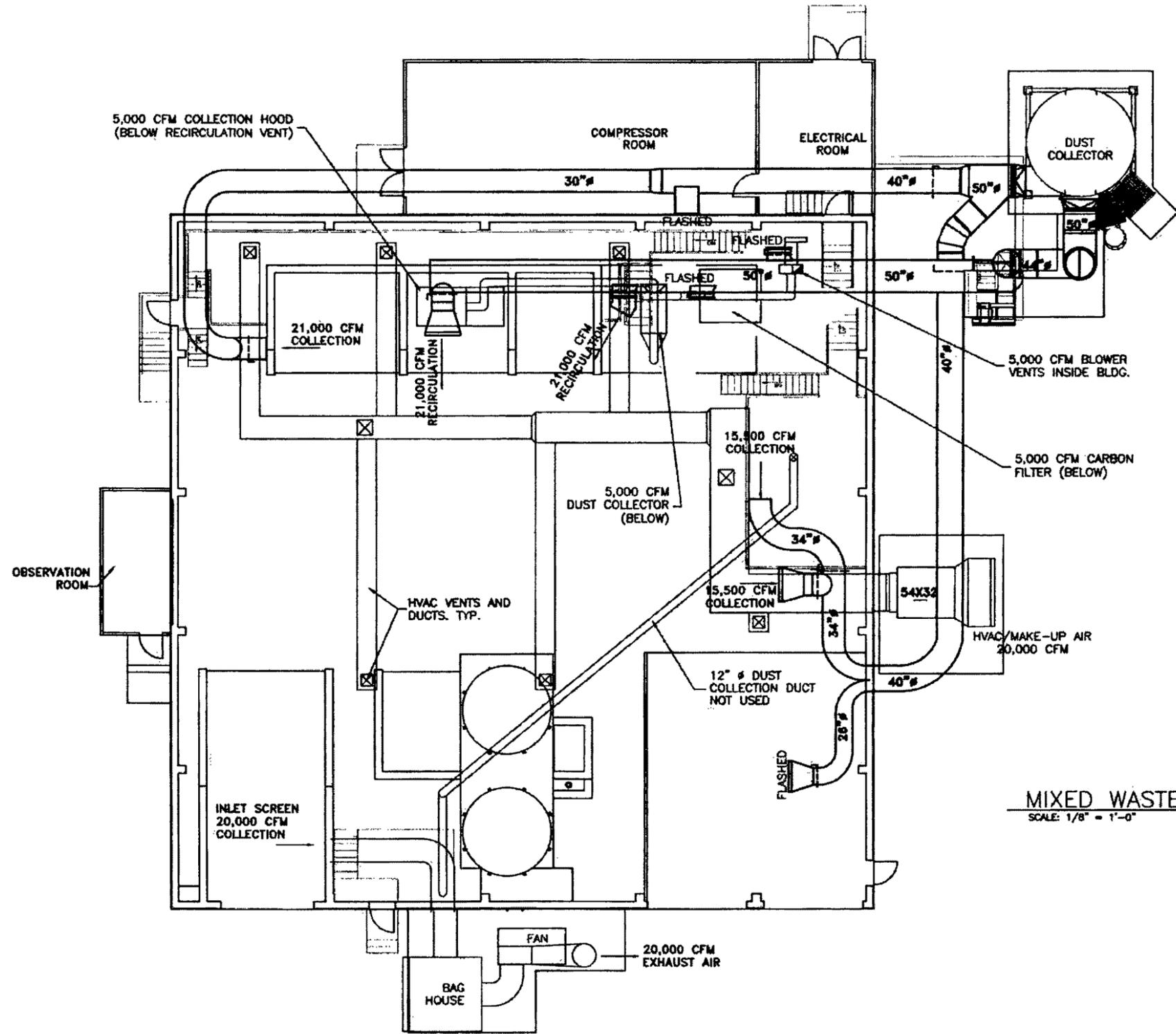


C INSIDE DRAIN TRENCH
9517-1 SCALE 2" = 1'

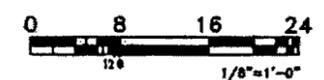


DESIGNS ARE REPRESENTATIVE OF
OBTAINED AS-SHOWN AND PERMITTED
DRAWING OR FILE WITH THE BOARD.

10/21/02	REDA PERMIT RENEWAL		SJF	MIXED WASTE STORAGE BUILDING	AS NOTED	6/16/05
12/18/03	REMOVE TANKS		D. BOOTH	AND WASH PADS		
6/27/05	GENERAL UPDATE		D. SHOCKEY	WASH PAD DETAILS		
DATE	REV. DESCRIPTION OF CHANGE			CLIVE, UTAH	9517-3	◆



MIXED WASTE TREATMENT FACILITY
SCALE: 1/8" = 1'-0"

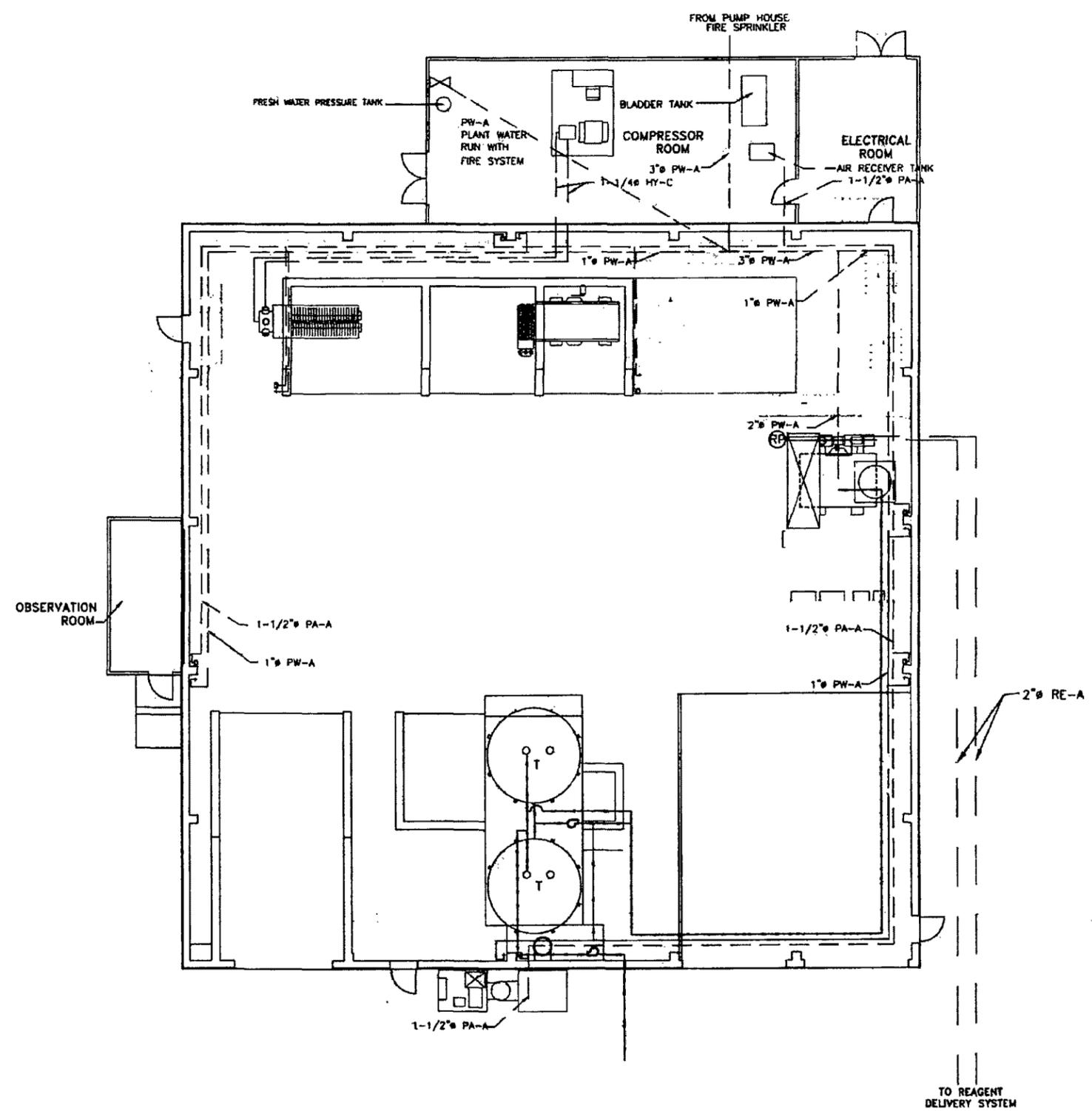


DATE	INT.	DESCRIPTION OF CHANGE	DATE	INT.	DESCRIPTION OF CHANGE	DATE	INT.	DESCRIPTION OF CHANGE
02/08/05	SB	LIQUID WASTE TANKS ADDED	7/17/02	KL	REMOVE LIQ. WASTE HOLDING TANK	1/6/94	-	41'-0" WAS 61'-0"
3/21/03	DFB	REVISED RCRA PERMIT SUBMITTAL	6/4/94	SJP	MOVE SHREDDERS; DRAW ON ACAD	11/18/93	-	CHANGED NORTH ORIENTATION
5/8/03	KL	CHANGED DWG. TITLE	2/13/95	SJP	AS-BUILTS - INIT. CONSTRUCTION	10/18/93	-	CERTIFIED
10/21/02	KL	RCRA PERMIT RENEWAL	5/4/94	SJP	MOVE SHREDDERS; DRAW ON ACAD	8/23/93	-	FOR APPROVAL

ENVIROCARE
OF UTAH, INC.
THE SAFE ALTERNATIVE

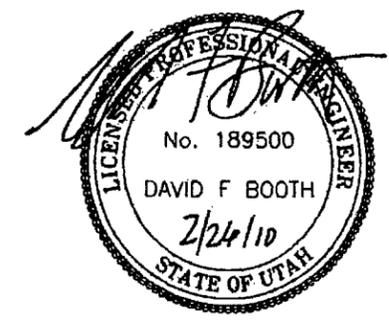
ROMANOWSKI	MIXED WASTE TREATMENT BUILDING	1/8"=1'-0"	4/21/03
D. BOOTH	DUST COLLECTION &		
K. HAWKINS	VENTILATION SYSTEM		
	CLIVE, UTAH		

9317-M2



- NOTES:**
- LINE IDENTIFICATION
 SIZE * LIQUID - PIPE MATERIAL
 A. SIZE: 1" THROUGH 4"
 B. SERVICE:
 PW - PLANT WATER
 PA - PLANT AIR
 DW - DIRTY WATER
 HY - HYDRAULIC FLUID
 RE - REAGENT
 C. PIPE MATERIAL:
 A - CARBON STEEL
 B - HIGH-MED. DENSITY POLYETHYLENE
 C - HYDRAULIC LINE
 D - RUBBER QUICK-CONNECT HOSE

- KEY:**
- (SP) SUMP PUMP
 - (RP) REAGENT PUMP
 - ⊗ MANUAL VALVE
 - AIR HOSE CONNECTION W/VALVE
 - + HOSE BIB
 - ⊕ PUMP
 - WATER
 - LIQUID WASTE
 - (T) TANK

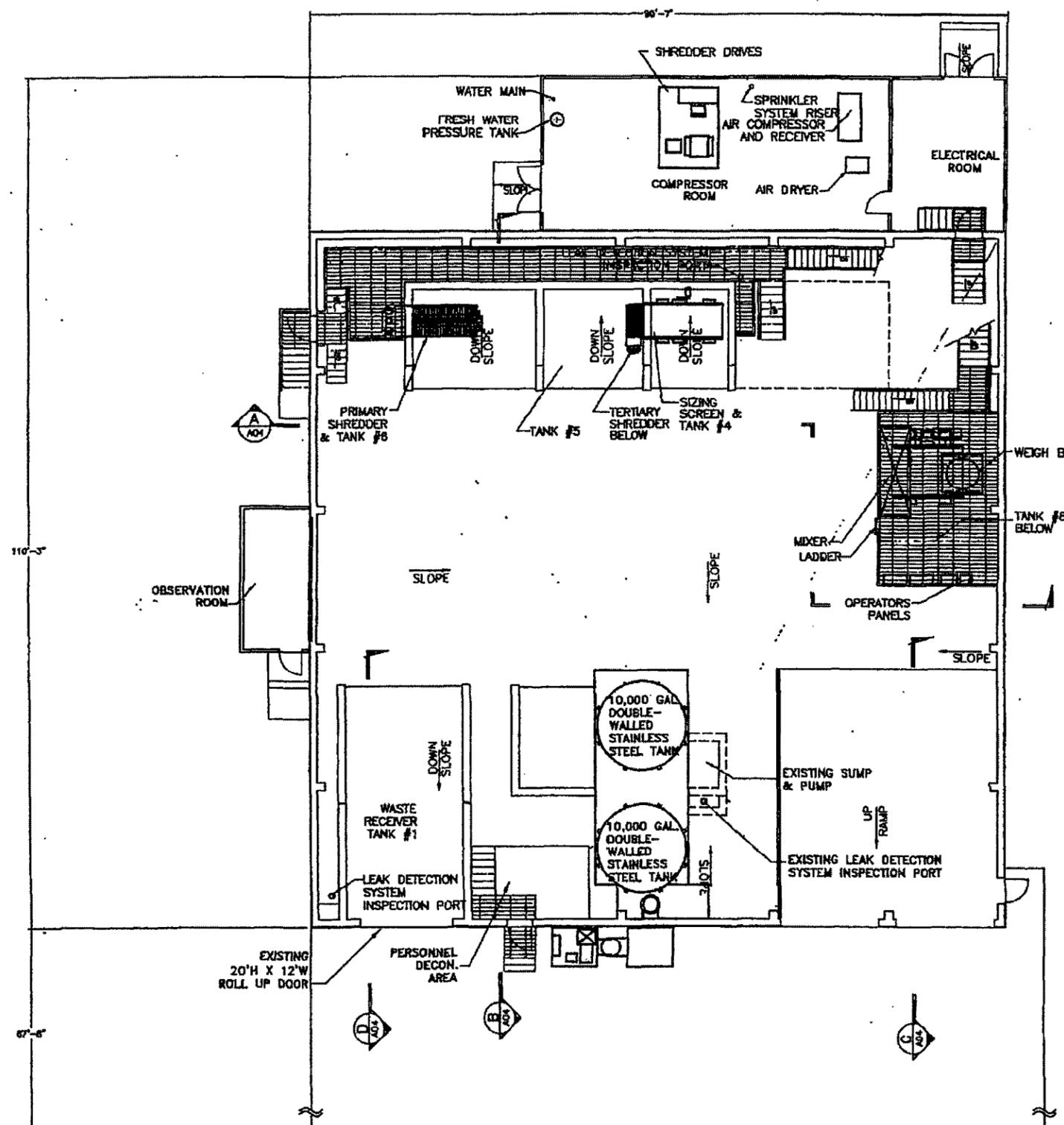


MIXED WASTE TREATMENT BUILDING
 SCALE: 1/8" = 1'-0"

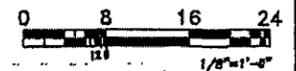
DATE	INIT.	DESCRIPTION OF CHANGE	DATE	INIT.	DESCRIPTION OF CHANGE
7/17/02	KL	REMOVE LIQ. WASTE HOLDING TANK	7/17/02	KL	REMOVE LIQ. WASTE HOLDING TANK
9/8/94	SJP	MOVED SHLDS	9/8/94	SJP	MOVED SHLDS
10/10/93	JRH	FOR CONSTRUCTION	10/10/93	JRH	FOR CONSTRUCTION
7/25/93	WSC	PRELIMINARY FOR REVIEW	7/25/93	WSC	PRELIMINARY FOR REVIEW



WSG	MIXED WASTE TREATMENT BUILDING	1/8"=1'-0"	07/29/93
D. BOOTH	PROCESS PIPING LAYOUT		
D. SHOCKEY			
	CLIVE, UTAH		
		9317-PP01	◆



MIXED WASTE TREATMENT BUILDING
SCALE: 1/8" = 1'-0"



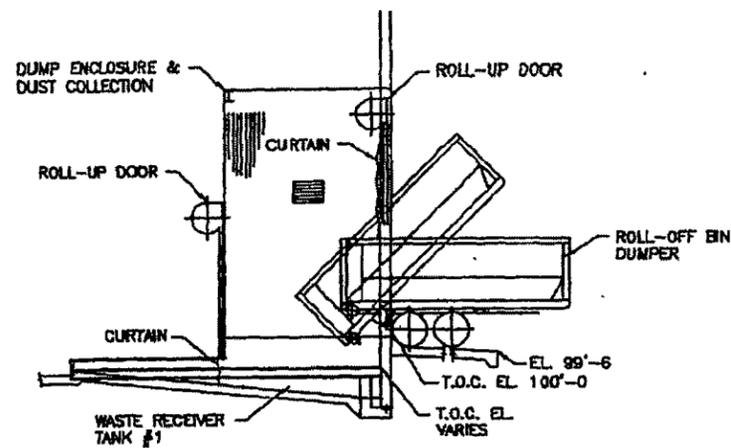
DRAWINGS ARE REPRESENTATIVE OF CERTIFIED AS-BUILT AND PERMITTING DRAWINGS ON FILE WITH THE STATE.

DATE	INT. DESCRIPTION OF CHANGE	DATE	INT. DESCRIPTION OF CHANGE	DATE	INT. DESCRIPTION OF CHANGE
02/02/05	SI LIQUID WASTE TANKS	2/13/93	SJP AS-BUILTS - INT. CONSTRUCTION	7/6/93	- PUMP & BLOWER BLDG
10/21/02	KL RCRA PERMIT RENEWAL	3/4/94	SJP MOVE SHREDDERS; DRAW ON ACAD	2/24/93	- ADJUSTED BLDG. DIMENSIONS
7/17/02	KL REMOVE LIQ. WASTE HOLDING TANK	2/19/93	- ROTATED STAIR @ CB	2/9/93	- GENERAL UPDATE
		2/3/94	- ADJUSTED COL. LINES	2/20/93	- GENERAL UPDATE
		1/8/94	- 41'-0" WAS 85'-0"		
		11/15/93	- CHANGE NORTH ARROW		
		10/16/93	- CERTIFIED		
		2/9/93	- GENERAL UPDATE		
		2/9/93	- GENERAL UPDATE		

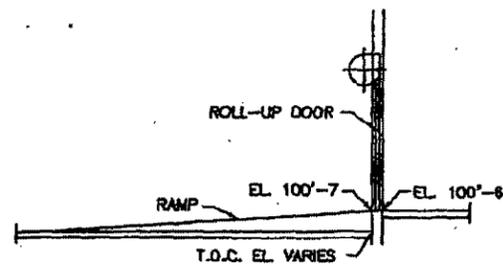


K. LUTZ	MIXED WASTE TREATMENT BUILDING	AS NOTED	00/00/00
D. BOOTH	BUILDING PLAN		
K. HAWKINS	CLIVE, UTAH		

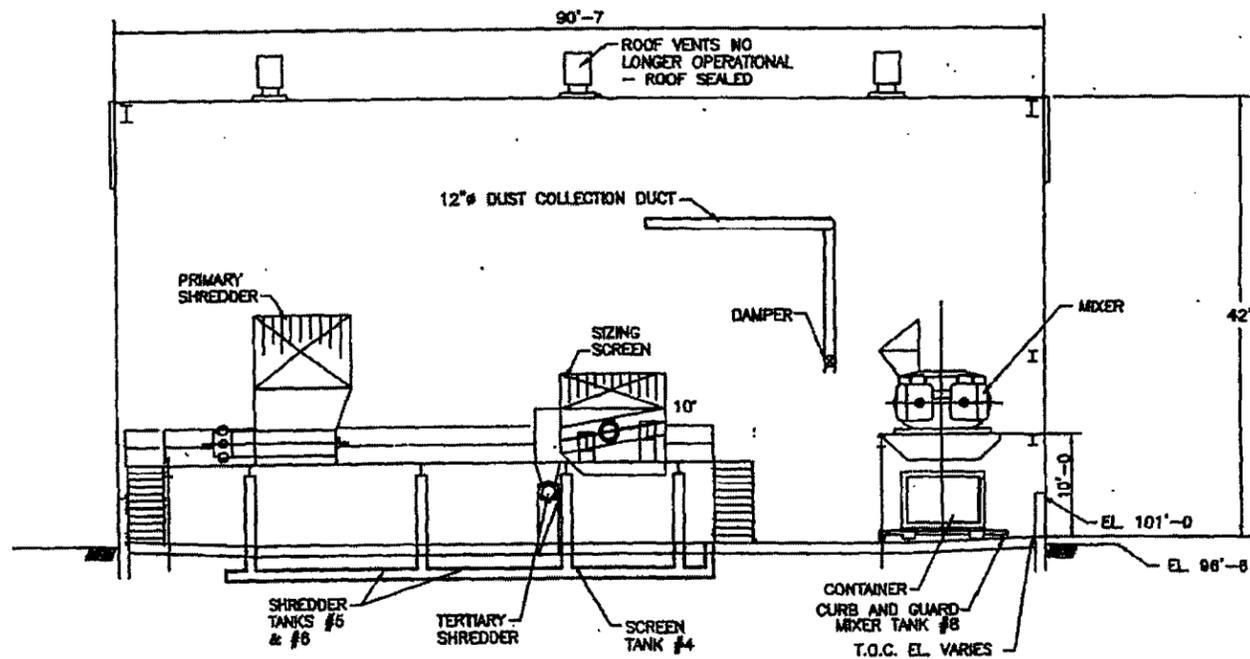
9317-L102



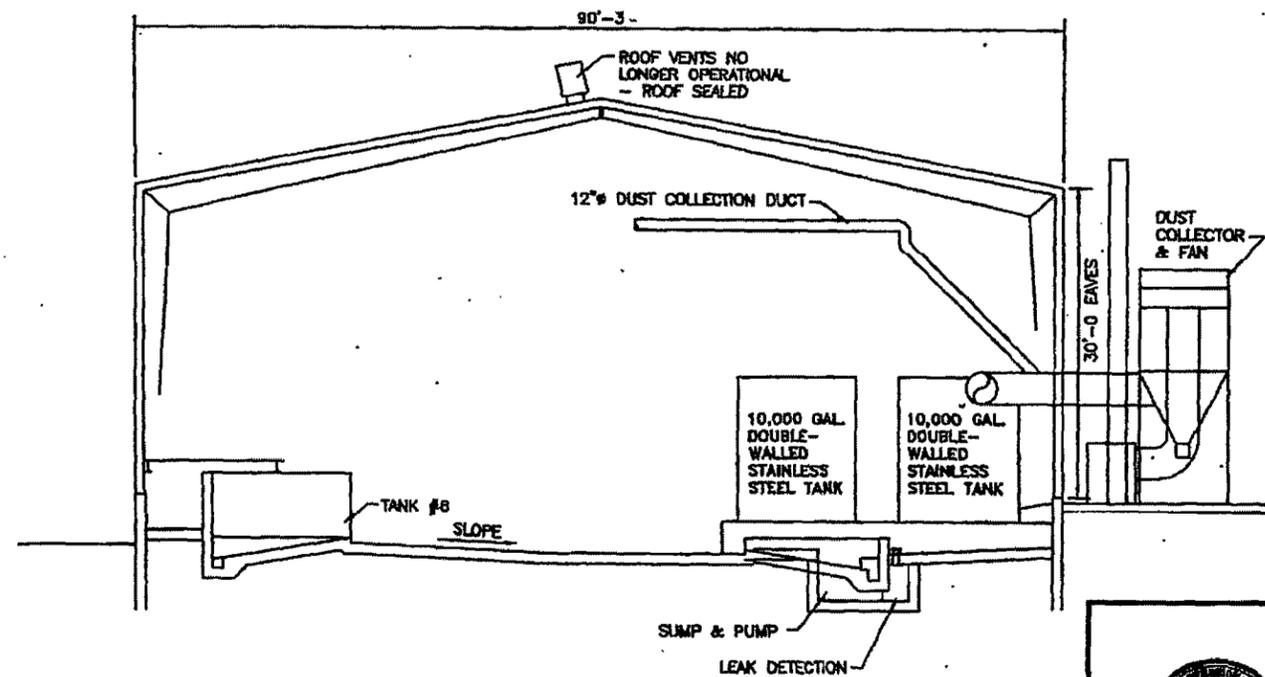
SECTION D-1102



SECTION C-1102



SECTION A-1102



SECTION B-1102



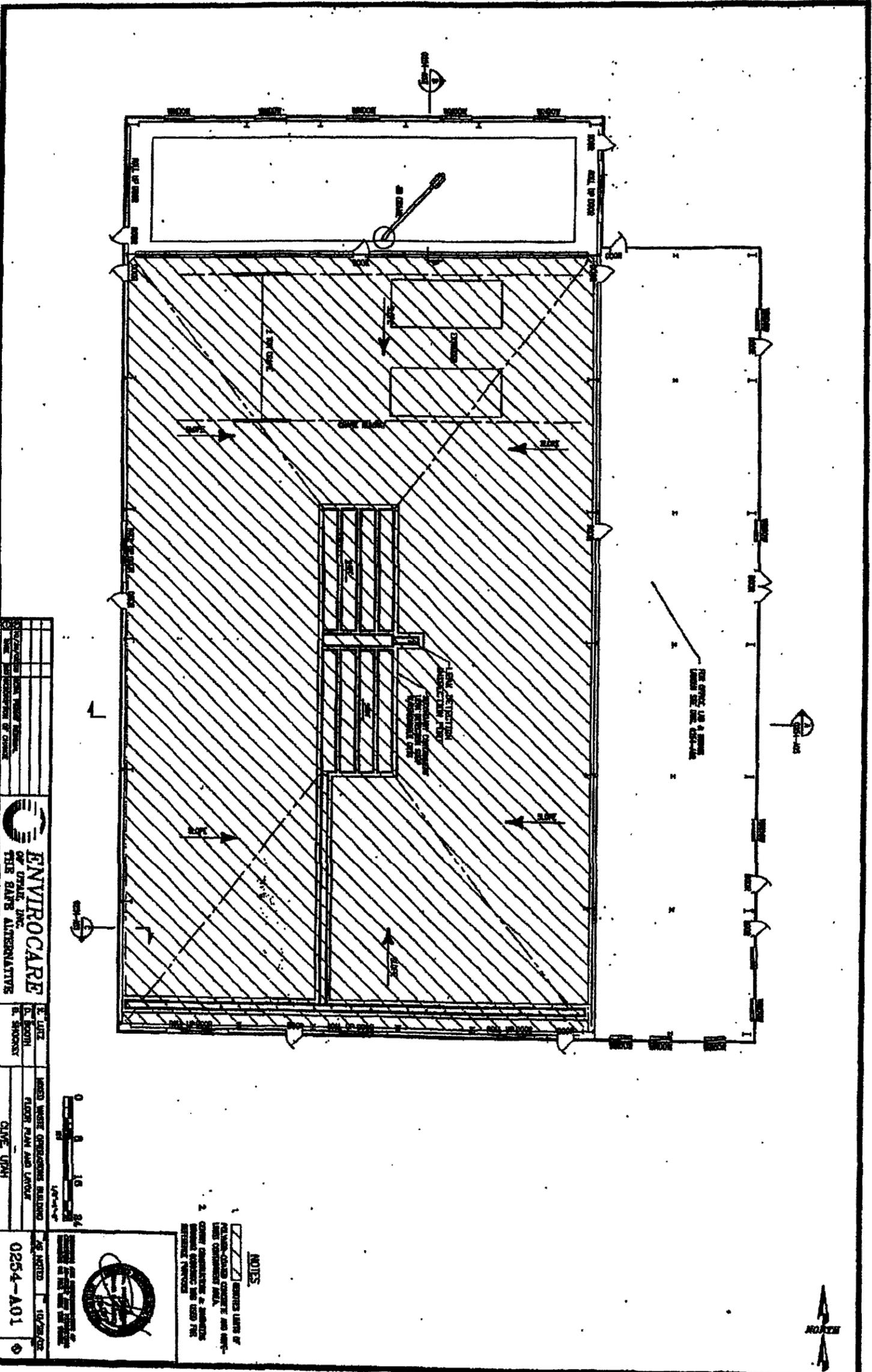
DRAWING IS REPRESENTATIVE OF CERTIFIED AS-BUILT AND FOUNDATION DRAWINGS ON FILE WITH THE STATE.

DATE	INIT.	DESCRIPTION OF CHANGE	DATE	INIT.	DESCRIPTION OF CHANGE	DATE	INIT.	DESCRIPTION OF CHANGE	DATE	INIT.	DESCRIPTION OF CHANGE
02/02/88	RL	LIQUID WASTE TANKS	02/13/88	SJP	AS-BUILTS - INIT. CONSTRUCTION	07/8/83	-	PUMP & BLOWER BLDG	06/24/83	-	ADJUSTED BLDG. DIMENSIONS
10/21/02	RL	RCRA PERMIT RENEWAL	03/12/88	SJP	REMOVE FUTURE INSTALLATIONS	08/8/83	-	GENERAL UPDATE	02/21/83	-	GENERAL UPDATE
			04/1/85	DWH	ADD DUST COLLECTOR TO MIXER	02/3/84	-	ADJUSTED COL. LINES			
			07/17/02	RL	REMOVE LIQ. WASTE HOLDING TANK	05/4/84	SJP	MOVE SHREDDERS; DRAIN ON ACAD			
			01/2/89	LSP	ADD ROOF VENT NOTE	10/18/83	-	CERTIFIED			

ENVIROCARE
OF UTAH, INC.
THE SAFE ALTERNATIVE

MERRELL
D. BOOTH
K. HARRIS
MIXED WASTE TREATMENT BUILDING
BUILDING SECTIONS
CLIVE, UTAH

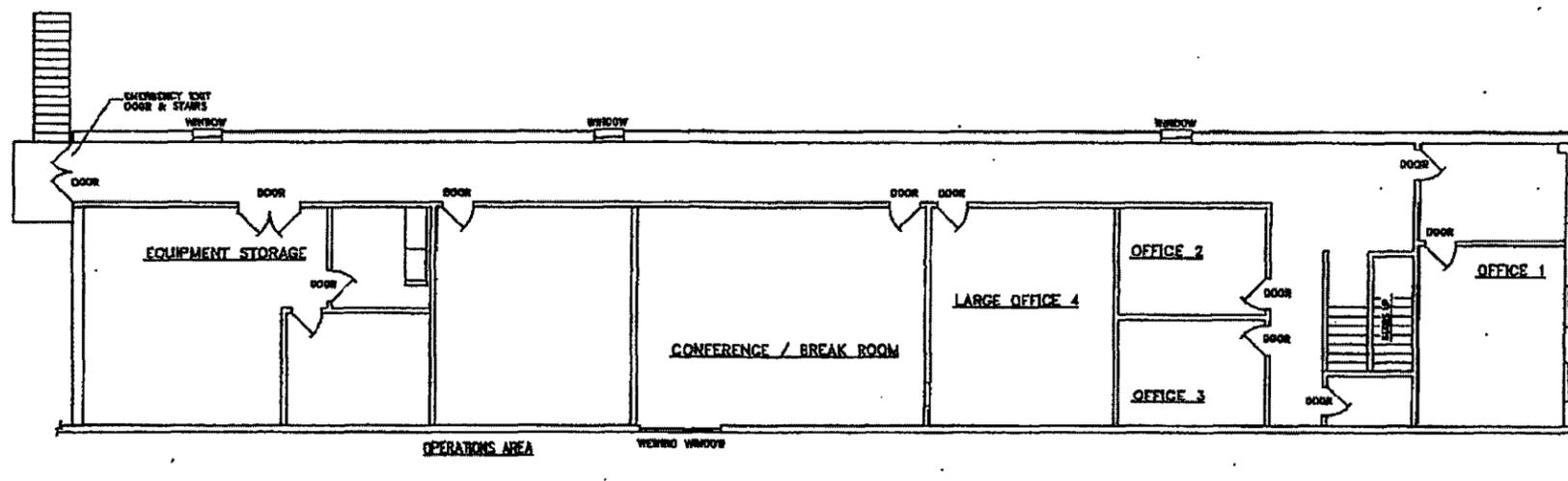
1/8"=1'-0" 04/26/83
9317-L103



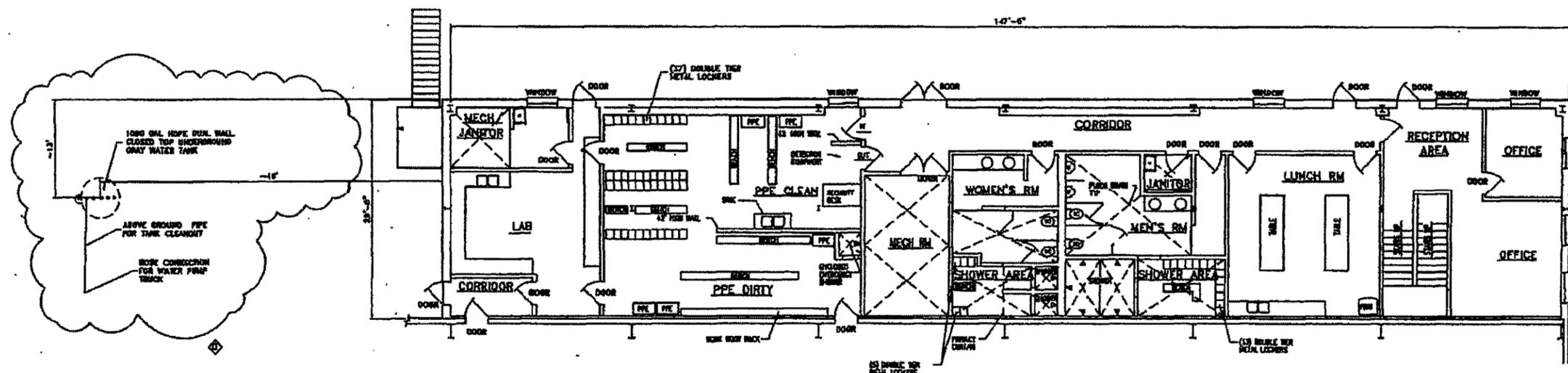
ENVIROCARE OF UTAH, INC. THE SAFE ALTERNATIVE	
PROJECT NO.	0254-A01
DATE	10/28/02
DESIGNED BY	DR. BOOTH
CHECKED BY	DR. BOOTH
DATE	10/28/02
PROJECT NAME	CLIVE URM



- NOTES**
1. HATCHED AREA INDICATES EXISTING CONCRETE AND CURB-AND-GUTTER PAVEMENT.
 2. ALL OTHER AREAS ARE TO BE CONCRETE AND CURB-AND-GUTTER PAVEMENT.

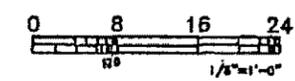


SECOND FLOOR PLAN



OFFICE / LAB AREA FLOOR PLAN
8 OF 12, 100-0

NOTE
1. CERTIFY CONSTRUCTORS & ENGINEERS DRAWINGS
W/PROSODIC & BORGASODIC WAS USED FOR
REFERENCE PURPOSES

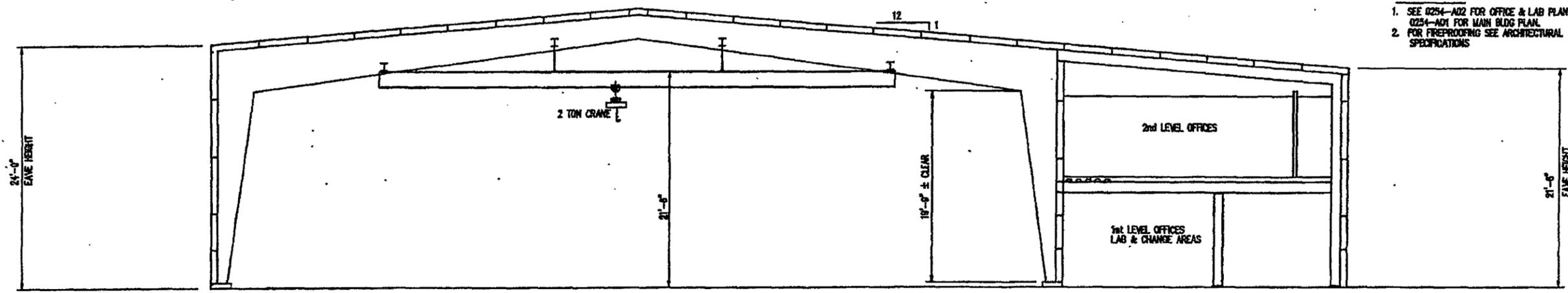


DATE	BY	DESCRIPTION OF CHANGE
02/08/05	DFB	ADDED GRAY WATER TANK
10/23/02	RL	ICRA PERMIT RENEWAL



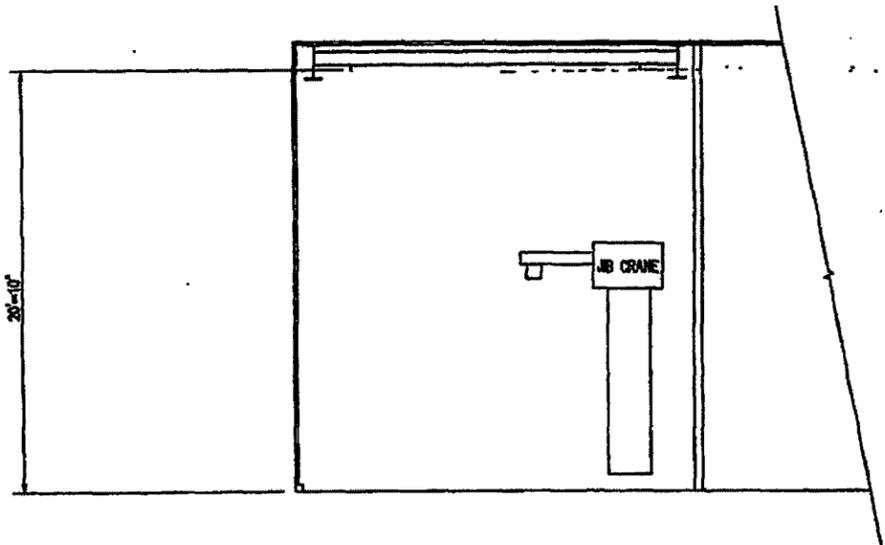
S. BRYAN	MIXED WASTE OPERATIONS BUILDING
K. HAWKINS	OFFICE / LAB AREA / CHANGE AREA
D. BOOTH	FLOOR PLANS
	CLIVE, UTAH

AS NOTED	10/23/02
0254-A02	

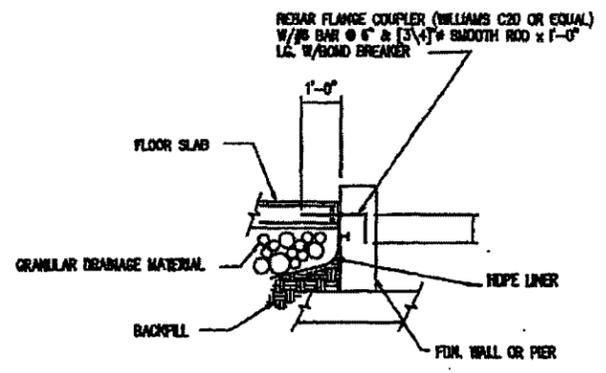


NOTES
 1. SEE 0254-A02 FOR OFFICE & LAB PLAN, 0254-A01 FOR MAIN BLDG PLAN.
 2. FOR FIREPROOFING SEE ARCHITECTURAL SPECIFICATIONS

SECTION A
 SCALE 3/16"=1'-0"
 A-001



SECTION B
 SCALE 3/16"=1'-0"
 A-001



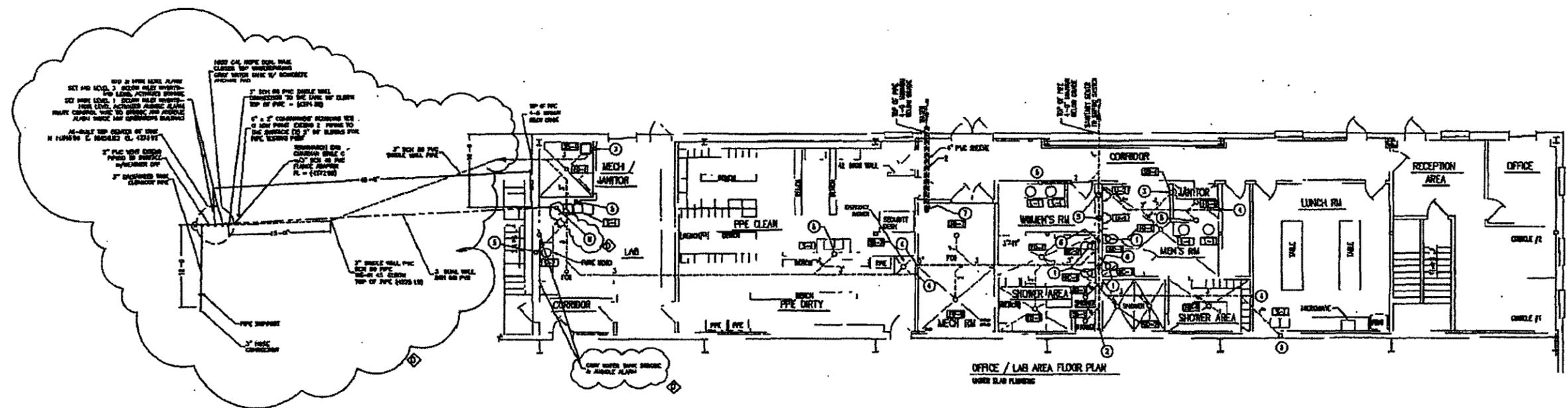
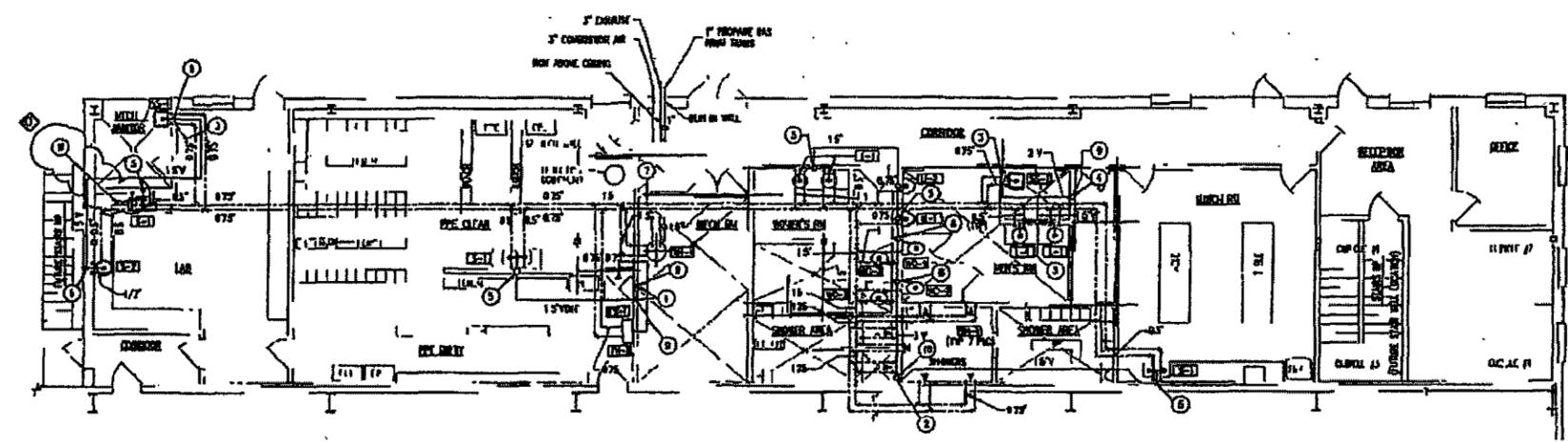
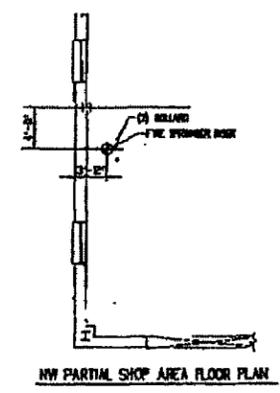
SECTION C
 SCALE 3/16"=1'-0"
 A-001

NOTE:
 1. CERTIFY CONSTRUCTORS & ENGINEERS DRAWING 6083533C WAS USED FOR REFERENCE PURPOSES



DRAWINGS ARE REPRESENTATIVE OF CERTIFIED AS-BUILT AND PERMITTING CHANGES OR FILE WITH THE STATE.

10/28/02	NOVA PERMIT RENEWAL		R. LUTZ	MIXED WASTE OPERATIONS BUILDING	AS NOTED	10/28/02
			D. BOOTH	BUILDING SECTIONS		
			D. SHOCKEY	CLIVE, UTAH	0254-A03	

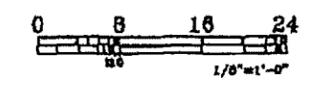


SYMBOL	DESCRIPTION	W	V	AM	CV
WC-1	WATER CLOSET	2	2	-	1
WC-2	WATER CLOSET	1	2	-	1
WC-3	WATER CLOSET	2	2	-	0.75
WC-4	WATER CLOSET	2	2	-	0.75
WC-5	WATER CLOSET	2	2	-	0.75
WC-6	WATER CLOSET	2	2	-	0.75
WC-7	WATER CLOSET	2	2	-	0.75
WC-8	WATER CLOSET	2	2	-	0.75
WC-9	WATER CLOSET	2	2	-	0.75
WC-10	WATER CLOSET	2	2	-	0.75
WC-11	WATER CLOSET	2	2	-	0.75
WC-12	WATER CLOSET	2	2	-	0.75
WC-13	WATER CLOSET	2	2	-	0.75
WC-14	WATER CLOSET	2	2	-	0.75
WC-15	WATER CLOSET	2	2	-	0.75
WC-16	WATER CLOSET	2	2	-	0.75
WC-17	WATER CLOSET	2	2	-	0.75
WC-18	WATER CLOSET	2	2	-	0.75
WC-19	WATER CLOSET	2	2	-	0.75
WC-20	WATER CLOSET	2	2	-	0.75

- KEYED NOTES**
- ① 2" WASTE STUB-UP THROUGH FLOOR, LOCAL CODES BY FIRM CENTER OF PARTITION
 - ② 4" VENT STUB-UP
 - ③ 2" WASTE STUB-UP
 - ④ 2" VENT STUB-UP
 - ⑤ 2" WASTE STUB-UP-DEBRIDGED & CAPPED
 - ⑥ 2" VENT STUB-UP
 - ⑦ 2" WASTE SUPPLY STUB-UP
 - ⑧ 2" VENT THROUGH ROOF
 - ⑨ 2" VENT THROUGH ROOF
 - ⑩ 2" VENT THROUGH ROOF
 - ⑪ 2" WASTE WELL STUB-UP THROUGH FLOOR AND CEILING TO 5-1

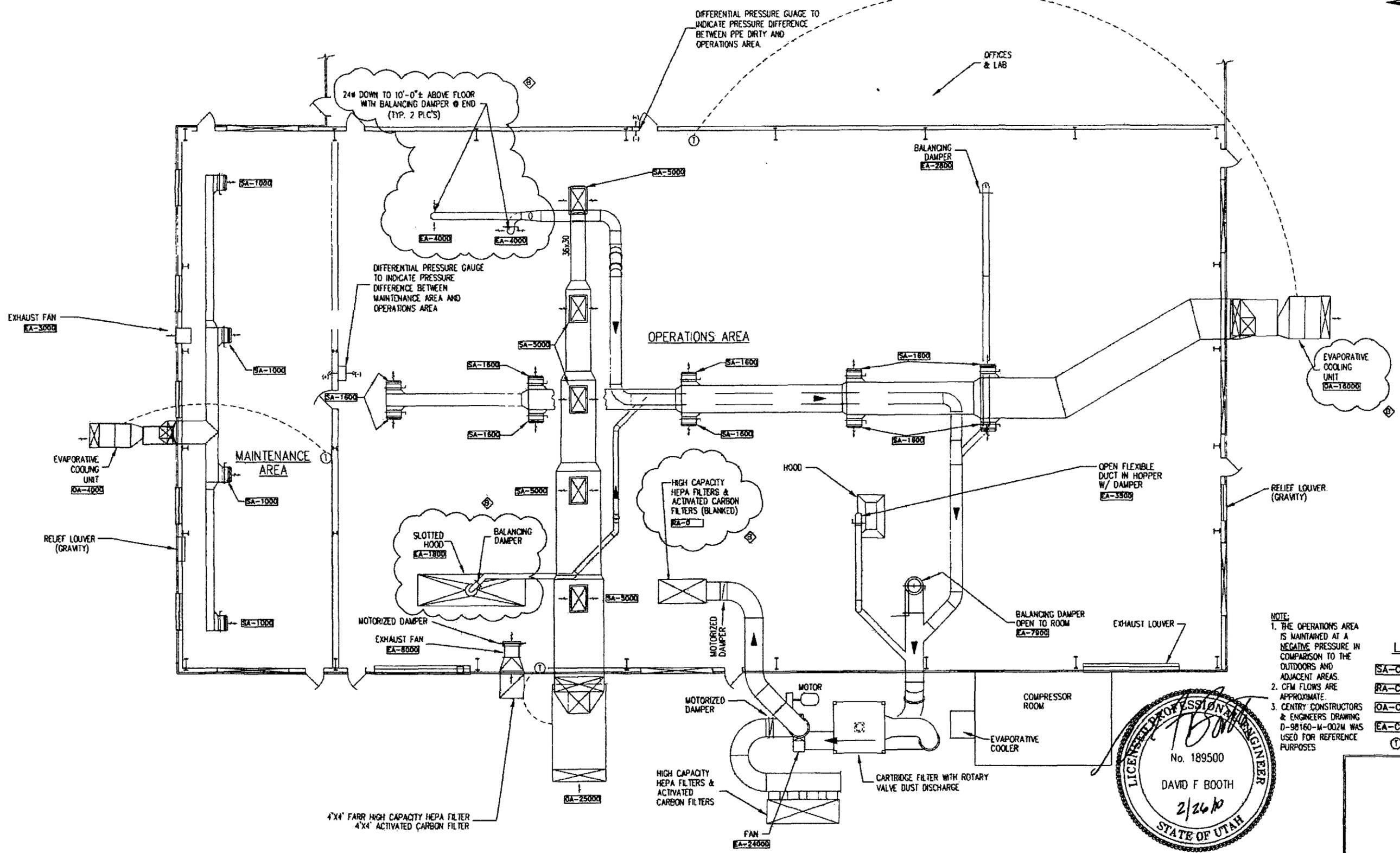
- LEGEND**
- WASTE
 - WATER - COLD
 - WATER - HOT
 - VENT
 - PROPANE GAS

- NOTES**
- A. ALL PLUMBING MATERIALS AND INSTALLATIONS ARE IN COMPLIANCE WITH THE UTAH PLUMBING CODE (UPC) AND ALL LOCAL AND STATE REGULATIONS OF SALT LAKE COUNTY AND THE CITY OF SALT LAKE CITY.
 - B. VENTS FROM LABORATORY WASTE STORAGE AND STORAGE BINS SHOULD BE NOT CHANGED.
 - C. VENTS THROUGH ROOF SHOULD BE THROUGH SECOND FLOOR OFFICE SPACE.
 - D. CERTAIN ELECTRICALS & ENGINEERS SHOULD BE CONSULTED FOR ANY SPECIAL REQUIREMENTS.



02/06/02	ADD	ADDED GRAY WATER TANK	K. LUTZ	MIXED WASTE OPERATIONS BUILDING	AS NOTED	10/28/02
10/28/02	REV	FOR PERMIT RENEWAL	K. HAWKINS	OFFICE / LAB AREA		
			D. BOOTH	PLUMBING PLAN		
				CLIVE, UTAH		
					0254-P01	

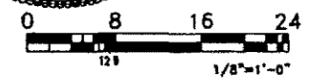
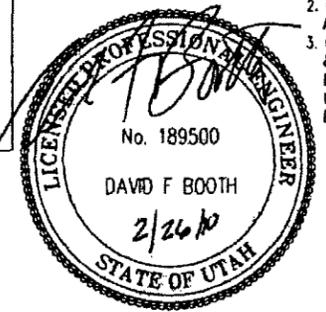




NOTE:
 1. THE OPERATIONS AREA IS MAINTAINED AT A NEGATIVE PRESSURE IN COMPARISON TO THE OUTDOORS AND ADJACENT AREAS.
 2. CFM FLOWS ARE APPROXIMATE.
 3. CENTRY CONSTRUCTORS & ENGINEERS DRAWING D-98160-M-002N WAS USED FOR REFERENCE PURPOSES

LEGEND

SA-CFM	SUPPLY AIR
RA-CFM	RETURN AIR
OA-CFM	OUTSIDE AIR
EA-CFM	EXHAUST AIR
⊙	THERMOSTAT

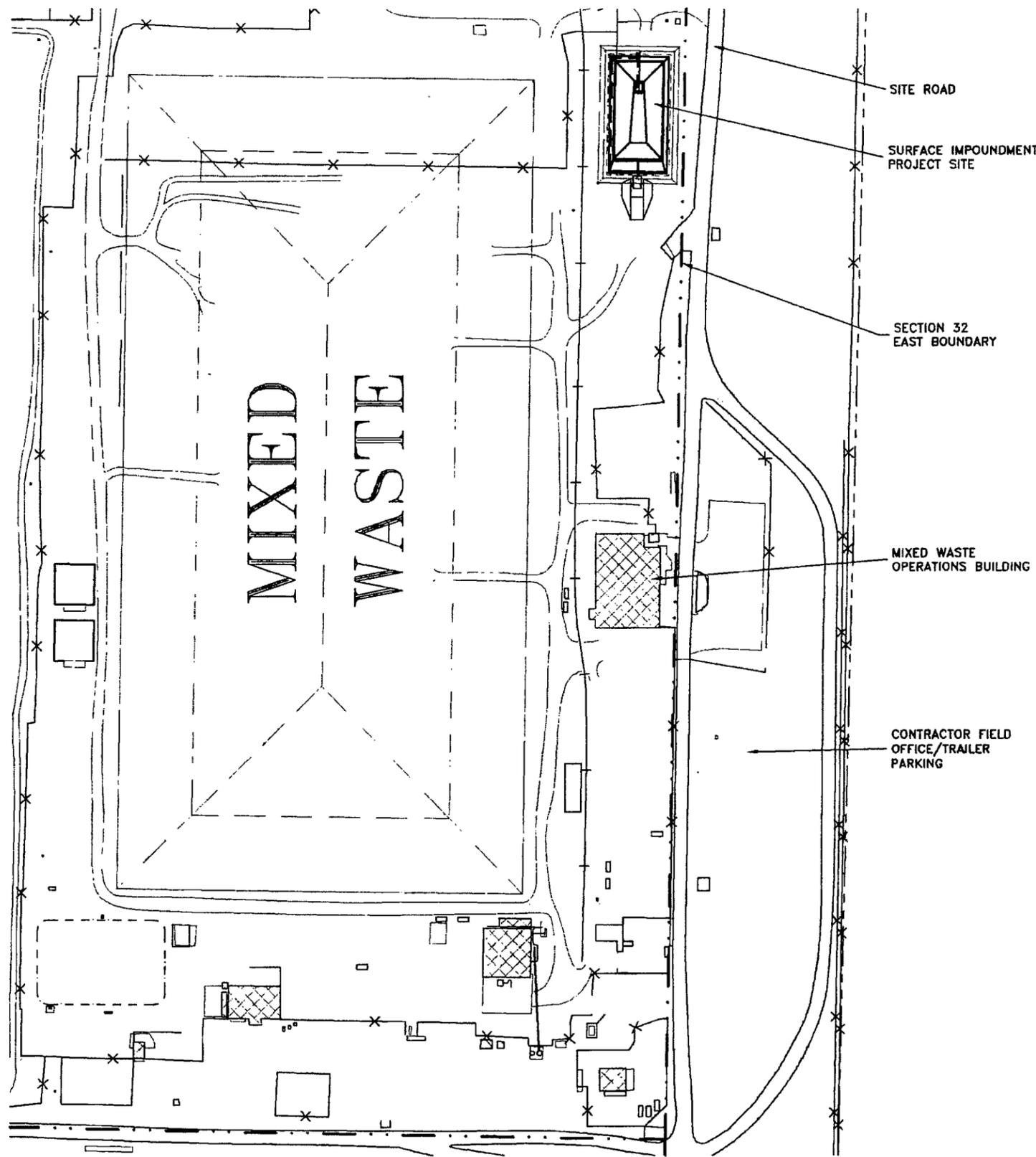


DATE	INIT.	DESCRIPTION OF CHANGE
2/26/10	DFB	UPDATED VENTILATION SYSTEM
10/29/02	KL	RCRA PERMIT RENEWAL

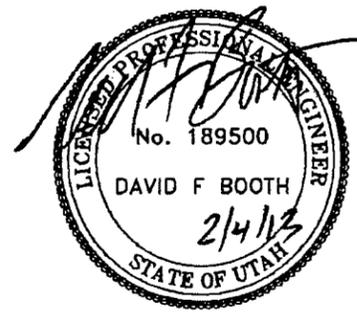


S. BRYAN	MIXED WASTE OPERATIONS BUILDING	AS NOTED	10/25/02
D. BOOTH	OPERATIONS AREA		
D. SHOCKEY	HVAC PLAN		
	CLIVE, UTAH		

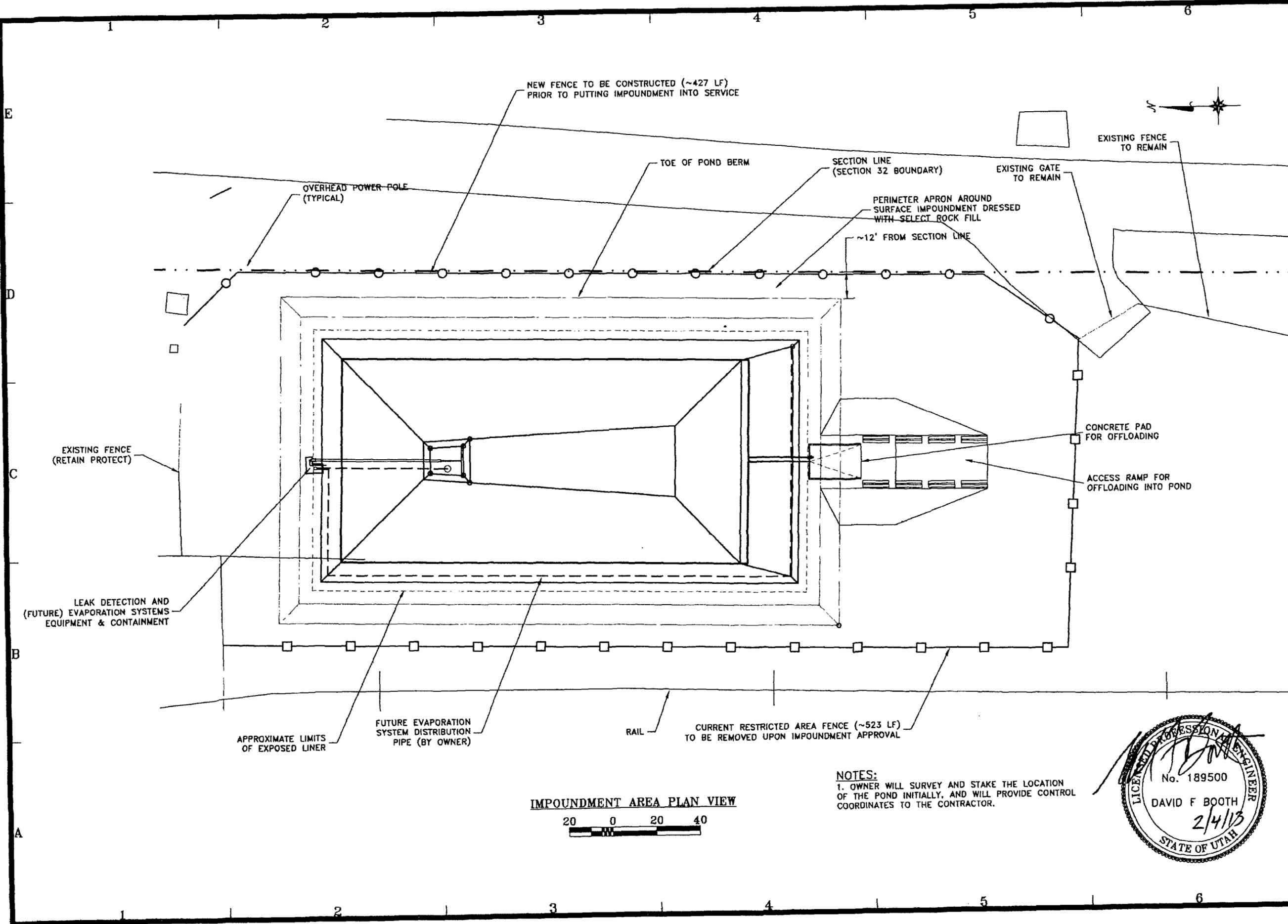
0254-M01



FACILITY PLAN VIEW
 120 0 120 240



ENERGYSOLUTIONS "CLIVE" FACILITY MIXED WASTE FACILITY: SURFACE IMPOUNDMENT SITE PLAN: SURFACE IMPOUNDMENT LOCATION CLIVE, UTAH	
2/4/13 6/29/12 5/16/12 12/30/11	(C) AS BUILT CONDITIONS (D) DESIGN CHANGE (E) FOR CONSTRUCTION (F) FOR PERMITTING
DATE BY	DESCRIPTION OF CHANGE
D. BOOTH V. ROGERS D. BOOTH	AS NOTED 11/15/11
11014 L1	

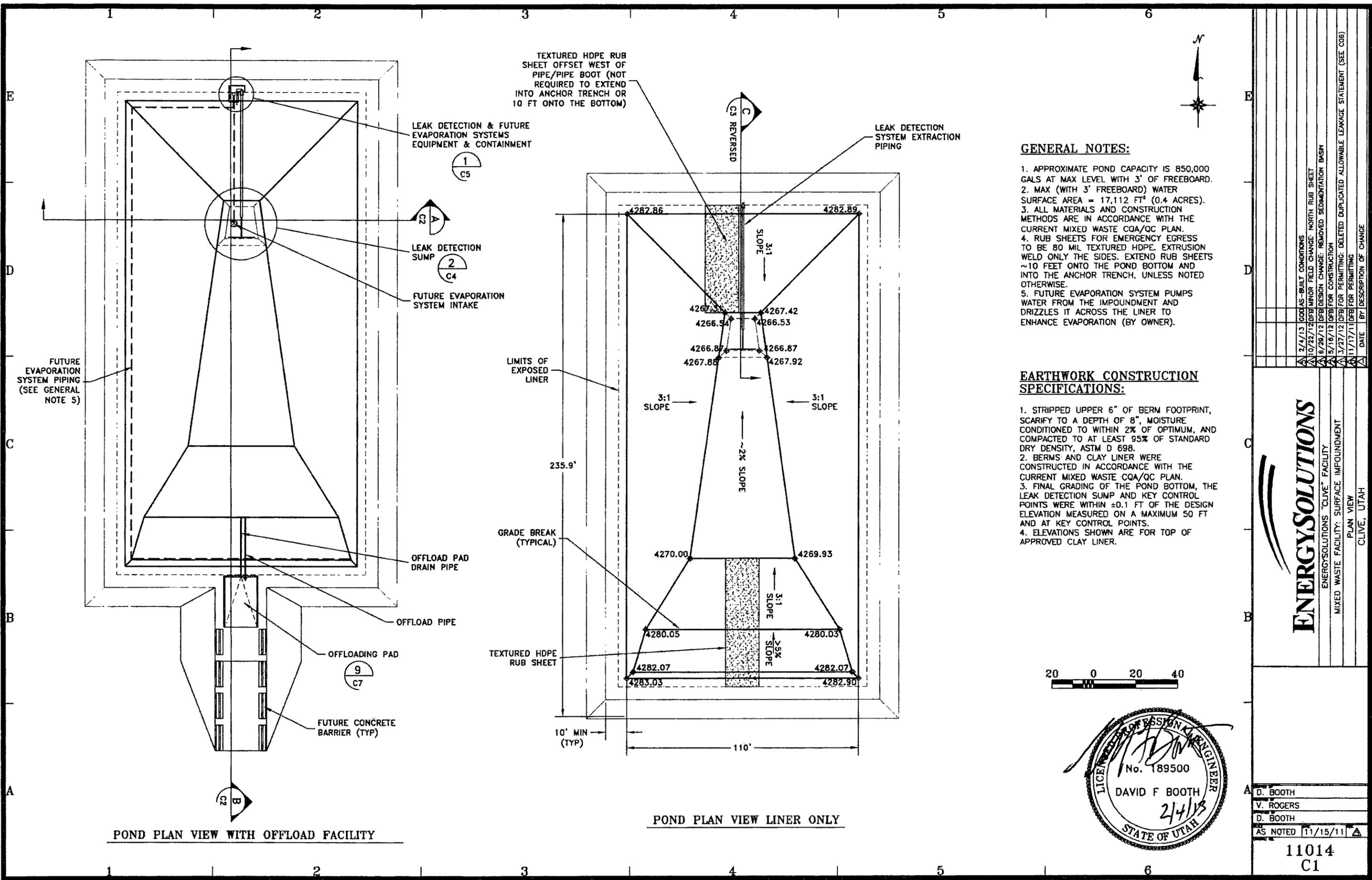


2/4/13	GDD AS-BUILT CONDITIONS
6/29/12	DFB DESIGN CHANGE. REMOVED SEDIMENTATION BASIN
5/16/12	DFB FOR CONSTRUCTION
11/17/11	DFB FOR PERMITTING
	DATE BY DESCRIPTION OF CHANGE

ENERGYSOLUTIONS

ENERGYSOLUTIONS "CLIVE" FACILITY
MIXED WASTE FACILITY: SURFACE IMPOUNDMENT
SITE PLAN
CLIVE, UTAH

D. BOOTH
V. ROGERS
D. BOOTH
AS NOTED 11/15/11
11014 L2



TEXTURED HDPE RUB SHEET OFFSET WEST OF PIPE/PIPE BOOT (NOT REQUIRED TO EXTEND INTO ANCHOR TRENCH OR 10 FT ONTO THE BOTTOM)

LEAK DETECTION & FUTURE EVAPORATION SYSTEMS EQUIPMENT & CONTAINMENT

LEAK DETECTION SYSTEM EXTRACTION PIPING

LEAK DETECTION SUMP

FUTURE EVAPORATION SYSTEM INTAKE

FUTURE EVAPORATION SYSTEM PIPING (SEE GENERAL NOTE 5)

OFFLOAD PAD DRAIN PIPE

OFFLOAD PIPE

OFFLOADING PAD

FUTURE CONCRETE BARRIER (TYP)

LIMITS OF EXPOSED LINER

GRADE BREAK (TYPICAL)

TEXTURED HDPE RUB SHEET

10' MIN (TYP)

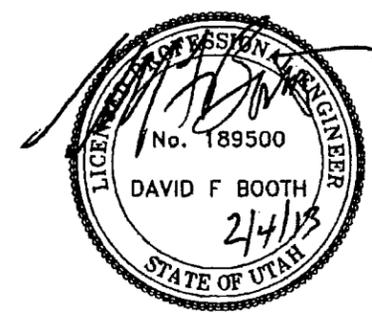
POND PLAN VIEW LINER ONLY

GENERAL NOTES:

1. APPROXIMATE POND CAPACITY IS 850,000 GALS AT MAX LEVEL WITH 3' OF FREEBOARD.
2. MAX (WITH 3' FREEBOARD) WATER SURFACE AREA = 17,112 FT² (0.4 ACRES).
3. ALL MATERIALS AND CONSTRUCTION METHODS ARE IN ACCORDANCE WITH THE CURRENT MIXED WASTE CQA/QC PLAN.
4. RUB SHEETS FOR EMERGENCY EGRESS TO BE 80 MIL TEXTURED HDPE. EXTRUSION WELD ONLY THE SIDES. EXTEND RUB SHEETS ~10 FEET ONTO THE POND BOTTOM AND INTO THE ANCHOR TRENCH, UNLESS NOTED OTHERWISE.
5. FUTURE EVAPORATION SYSTEM PUMPS WATER FROM THE IMPOUNDMENT AND DRIZZLES IT ACROSS THE LINER TO ENHANCE EVAPORATION (BY OWNER).

EARTHWORK CONSTRUCTION SPECIFICATIONS:

1. STRIPPED UPPER 6" OF BERM FOOTPRINT, SCARIFY TO A DEPTH OF 8", MOISTURE CONDITIONED TO WITHIN 2% OF OPTIMUM, AND COMPACTED TO AT LEAST 95% OF STANDARD DRY DENSITY, ASTM D 698.
2. BERMS AND CLAY LINER WERE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT MIXED WASTE CQA/QC PLAN.
3. FINAL GRADING OF THE POND BOTTOM, THE LEAK DETECTION SUMP AND KEY CONTROL POINTS WERE WITHIN ±0.1 FT OF THE DESIGN ELEVATION MEASURED ON A MAXIMUM 50 FT AND AT KEY CONTROL POINTS.
4. ELEVATIONS SHOWN ARE FOR TOP OF APPROVED CLAY LINER.

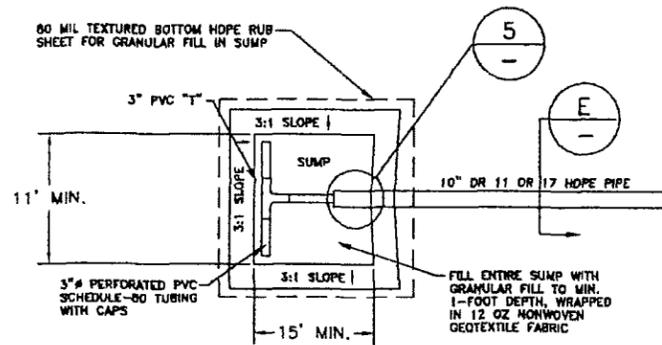


ENERGYSOLUTIONS
 ENERGY SOLUTIONS "CLIVE" FACILITY
 MIXED WASTE FACILITY: SURFACE IMPOUNDMENT
 PLAN VIEW
 CLIVE, UTAH

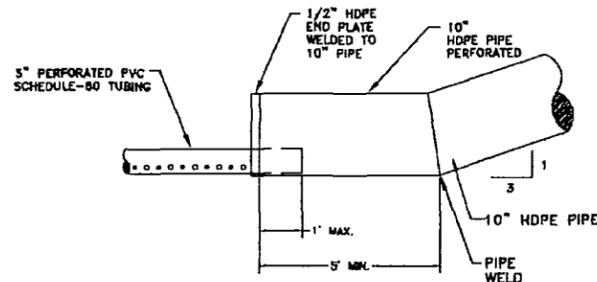
D. BOOTH
V. ROGERS
D. BOOTH
AS NOTED 1/15/11

11014
C1

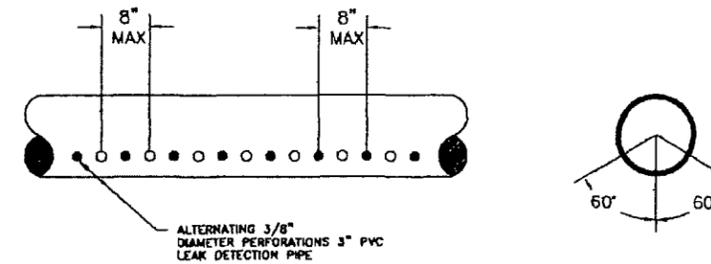
NO.	DATE	DESCRIPTION OF CHANGE
1	2/4/13	ISSUES-BUILT CONDITIONS
2	10/22/12	DFBI MINOR FIELD CHANGE: NORTH RUB SHEET
3	6/26/12	DFBI DESIGN CHANGE: REMOVED SEDIMENTATION BASIN
4	3/16/12	DFBI FOR CONSTRUCTION
5	3/27/12	DFBI FOR PERMITTING: DELETED DUPLICATED ALLOWABLE LEAKAGE STATEMENT (SEE C06)
6	11/17/11	DFBI FOR PERMITTING



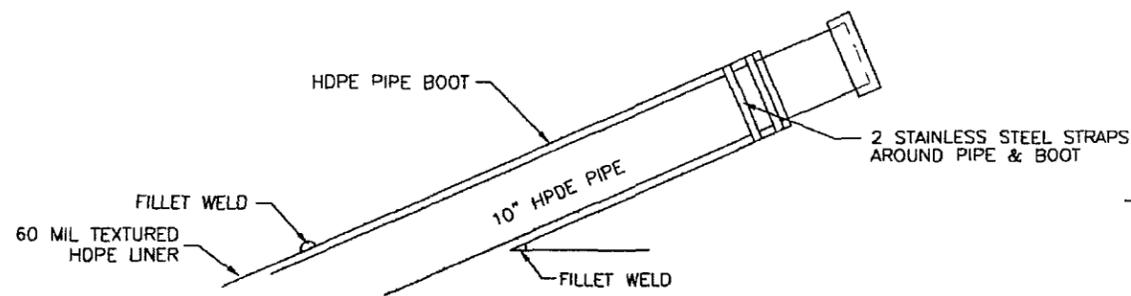
2 PLAN VIEW - SUMP
C1 NOT TO SCALE



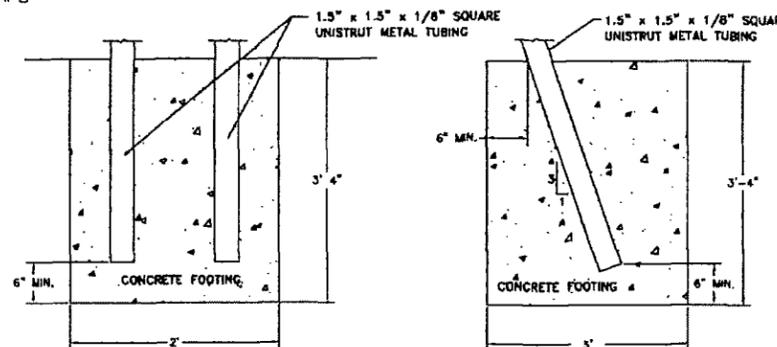
5 3" AND 10" PIPE CONNECTION DETAIL
NOT TO SCALE



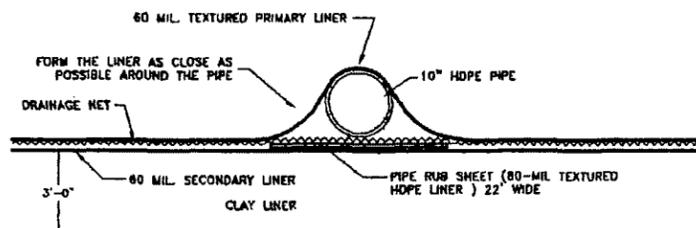
PERFORATIONS DETAILS
NOT TO SCALE



3 PIPE BOOT DETAIL
C3 NOT TO SCALE

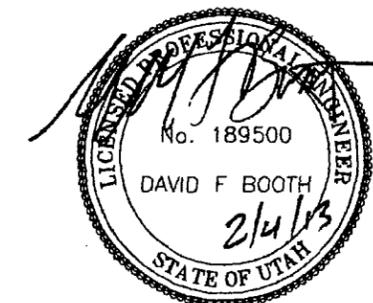


4 PIPE SUPPORT FOOTING DETAIL
C3 NOT TO SCALE



E WITHDRAWAL PIPE COVER
NOT TO SCALE

NOTES:
CONCRETE:
f's = 4,000 PSI
REINFORCEMENT: #4 REBAR
PLACE 4" MIN DRAIN
ROCK UNDER TROUGH



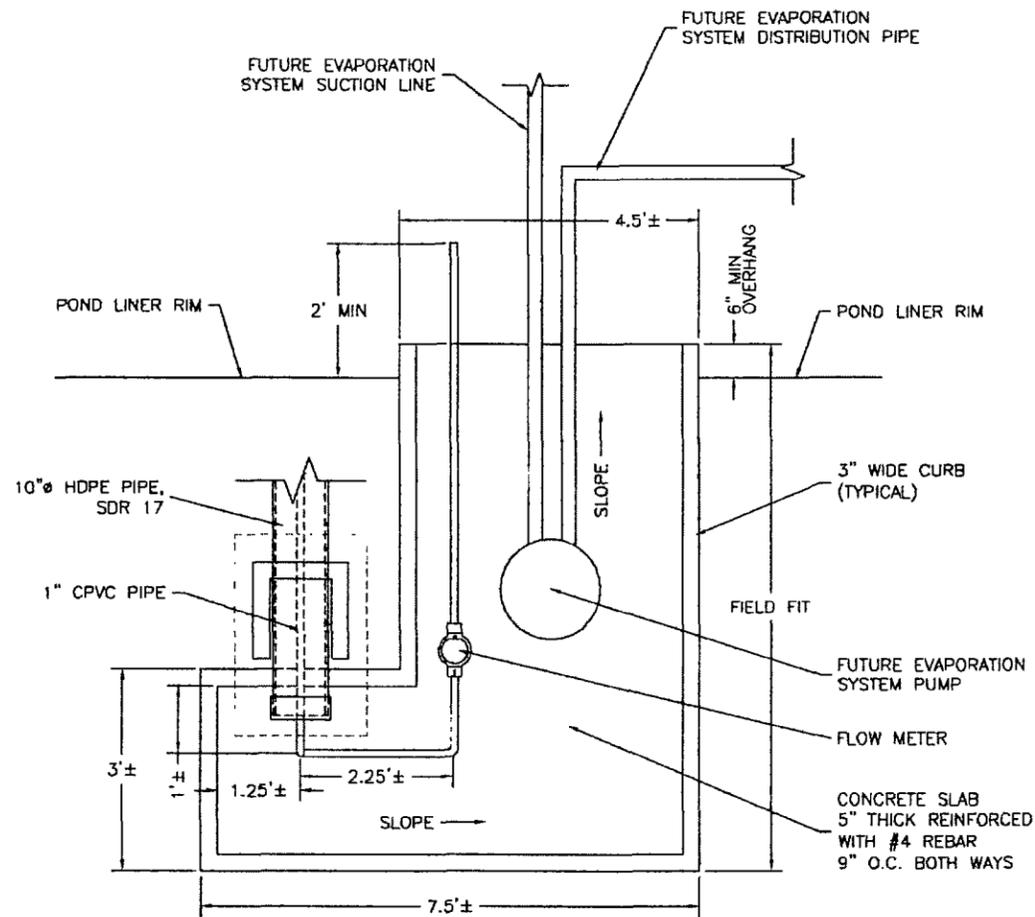
ENERGYSOLUTIONS

"CLIVE" FACILITY
MIXED WASTE FACILITY: SURFACE IMPOUNDMENT
SUMP PLAN, SECTIONS & DETAILS
CLIVE, UTAH

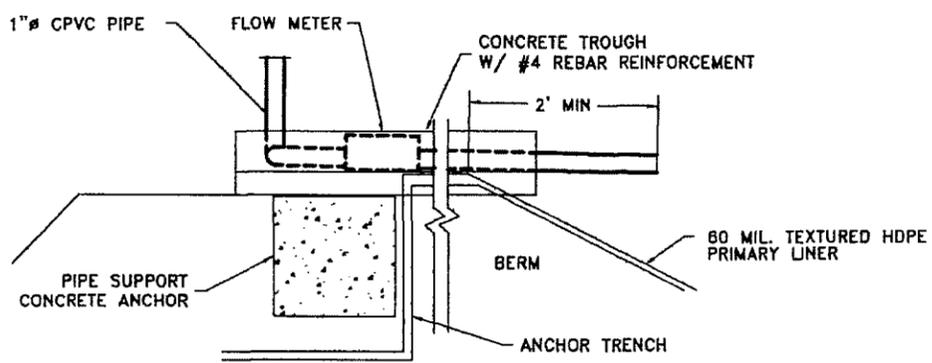
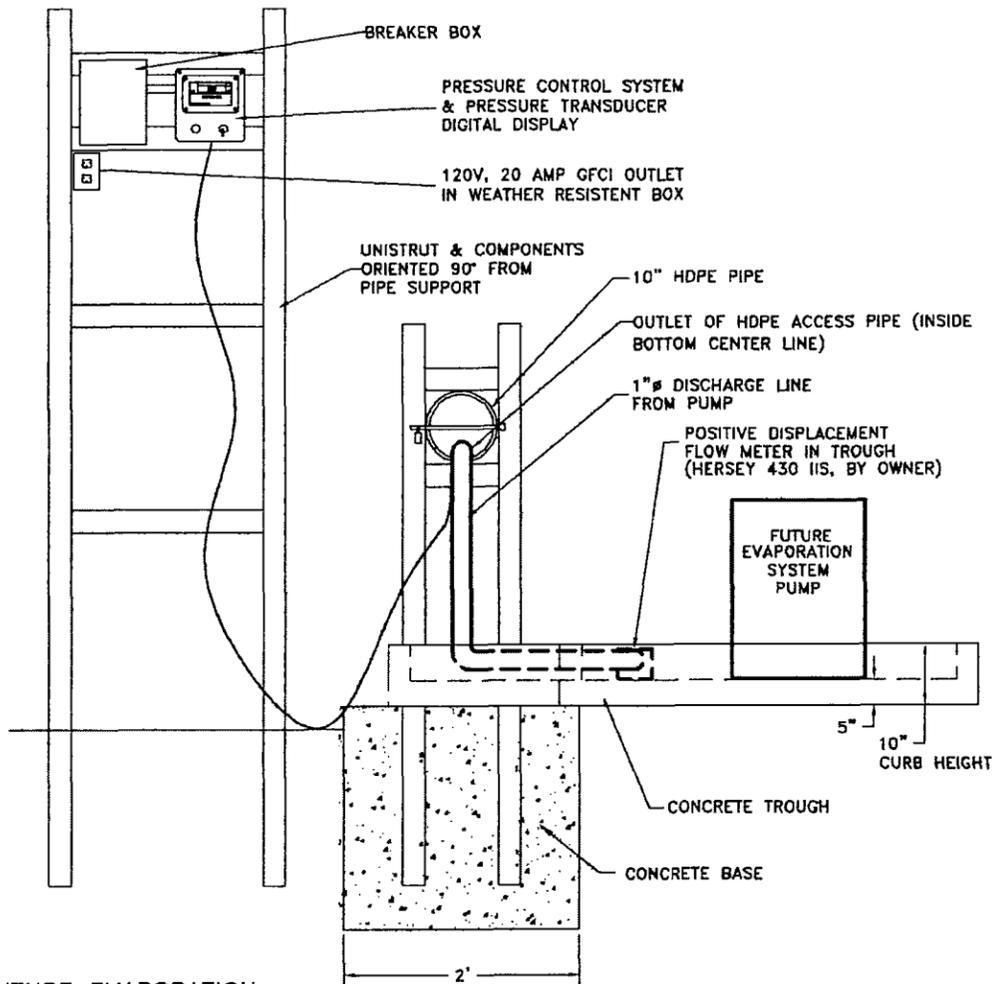
DATE	BY	DESCRIPTION OF CHANGE
3/4/13	GOB	AS-BUILT CONDITIONS
5/16/12	DFB	FOR CONSTRUCTION
11/17/11	DFB	FOR PERMITTING

D. BOOTH
V. ROGERS
D. BOOTH
AS NOTED 11/16/11

11014
C4

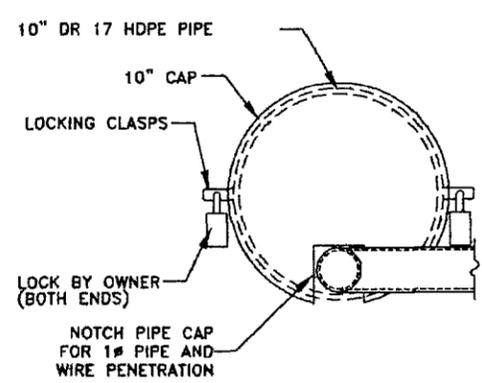


1
C1 LEAK DETECTION & FUTURE EVAPORATION SYSTEM PLAN VIEW
NOT TO SCALE



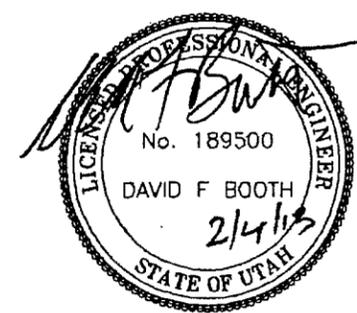
8 DISCHARGE DETAIL
NOT TO SCALE

NOTE: FUTURE EVAPORATION SYSTEM NOT SHOWN.



6 PIPE CAP
NOT TO SCALE

NOTES:
CONCRETE:
f'c = 4,000 PSI
REINFORCEMENT: #4 REBAR @ 9" O.C. BOTH WAYS
PLACE 4" MIN DRAIN ROCK UNDER TROUGH



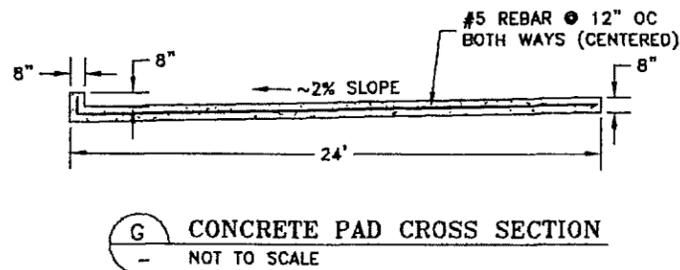
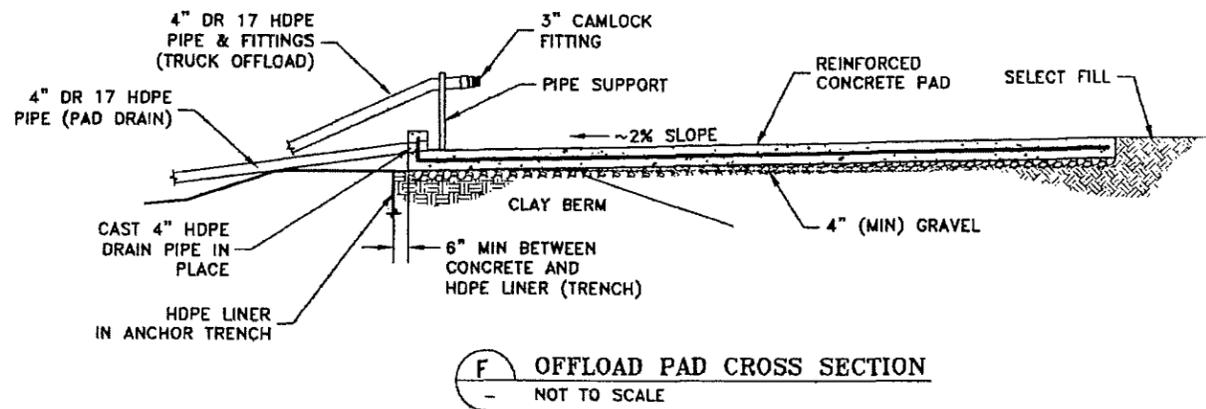
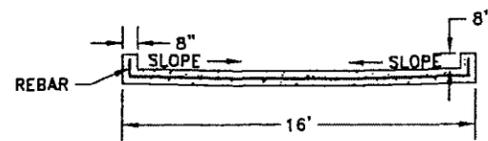
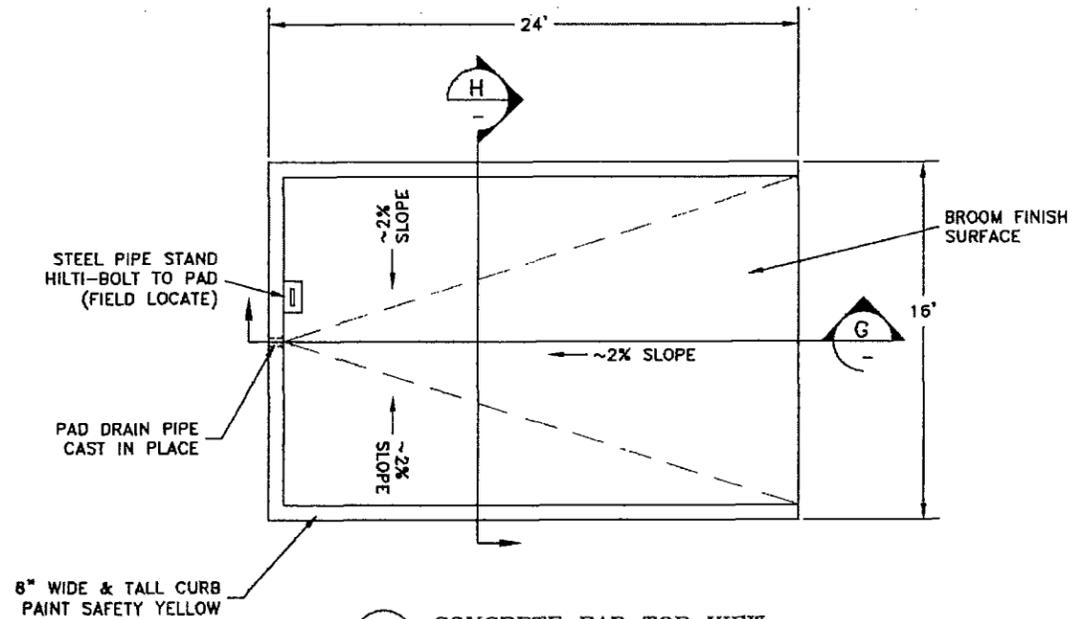
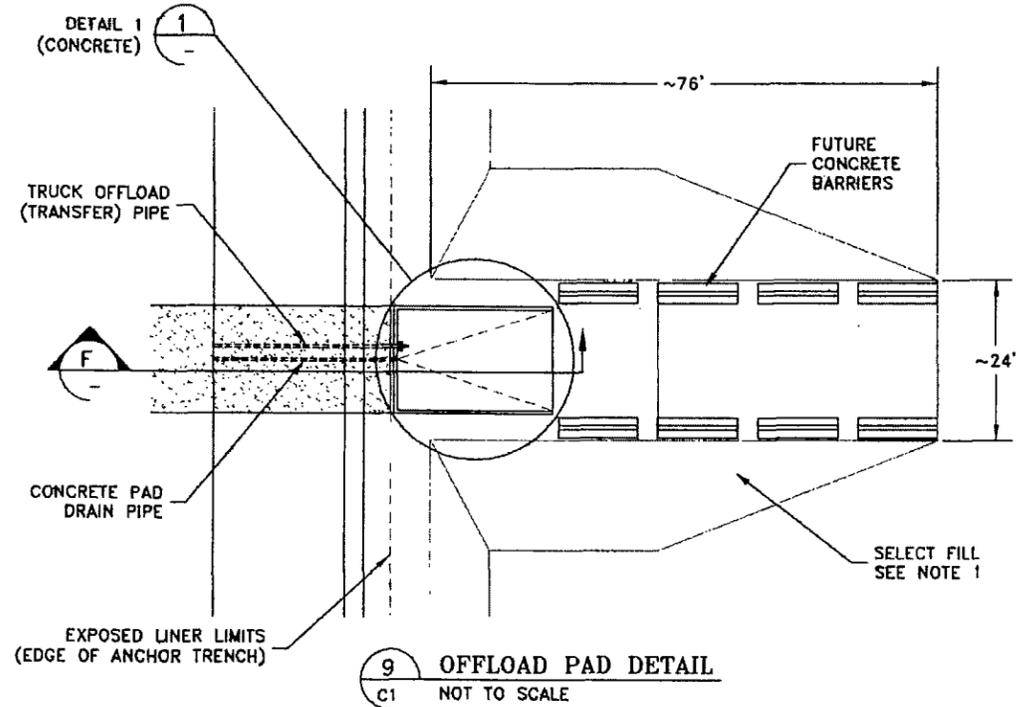
2/9/13	GD'S BUILT CONDITIONS
9/10/12	DFB FOR CONSTRUCTION: CLARIFIED NOTES
5/18/12	DFB FOR CONSTRUCTION
11/17/11	DFB FOR PERMITTING
DATE	BY DESCRIPTION OF CHANGE

ENERGYSOLUTIONS

"CLIVE" FACILITY
MIXED WASTE FACILITY: SURFACE IMPOUNDMENT
LEAK DETECTION SYSTEM SECTIONS & DETAILS
CLIVE, UTAH

A	D. BOOTH
	V. ROGERS
	D. BOOTH
AS NOTED	11/16/11

11014
C5

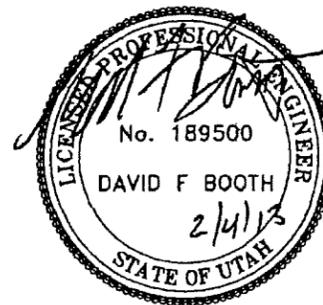


NOTES:

1. EARTH RAMP FOR CONCRETE PAD IS CONSTRUCTED WITH SELECT FILL MATERIAL. PLACED IN 12" LIFTS AND COMPACTED TO AT LEAST 95% OF A STANDARD PROCTOR.

2. CONCRETE PAD SLOPED TO DRAIN TO PIPE. PIPE IS EMBEDDED IN CONCRETE WITH A EMBED RING OR EQUIVALENT.

CONCRETE:
 $f'_c = 4,000$ PSI
 REINFORCEMENT: #5 REBAR, EPOXY COATED;
 CENTERED IN PAD @ 12" O.C. BOTH WAYS



DATE	BY	DESCRIPTION OF CHANGE
2/4/13	GD/AS	BUILT CONDITIONS
9/10/12	DFB	ISSUED FOR CONSTRUCTION
8/29/12	DFB	DESIGN CHANGE, REMOVED SEDIMENTATION BASIN
5/16/12	DFB	FOR CONSTRUCTION BID ONLY
11/17/11	DFB	FOR PERMITTING

ENERGYSOLUTIONS

ENERGYSOLUTIONS "CLIVE" FACILITY
 MIXED WASTE FACILITY SURFACE IMPROVEMENT
 OFFLOAD FACILITY PLAN & SECTIONS
 CLIVE, UTAH

D. BOOTH
V. ROGERS
D. BOOTH
AS NOTED 11/17/11

11014
 C7