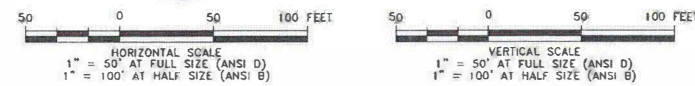


**D**  
**3.3-4**  
**DEWEY STORAGE PONDS**  
**SECTION**



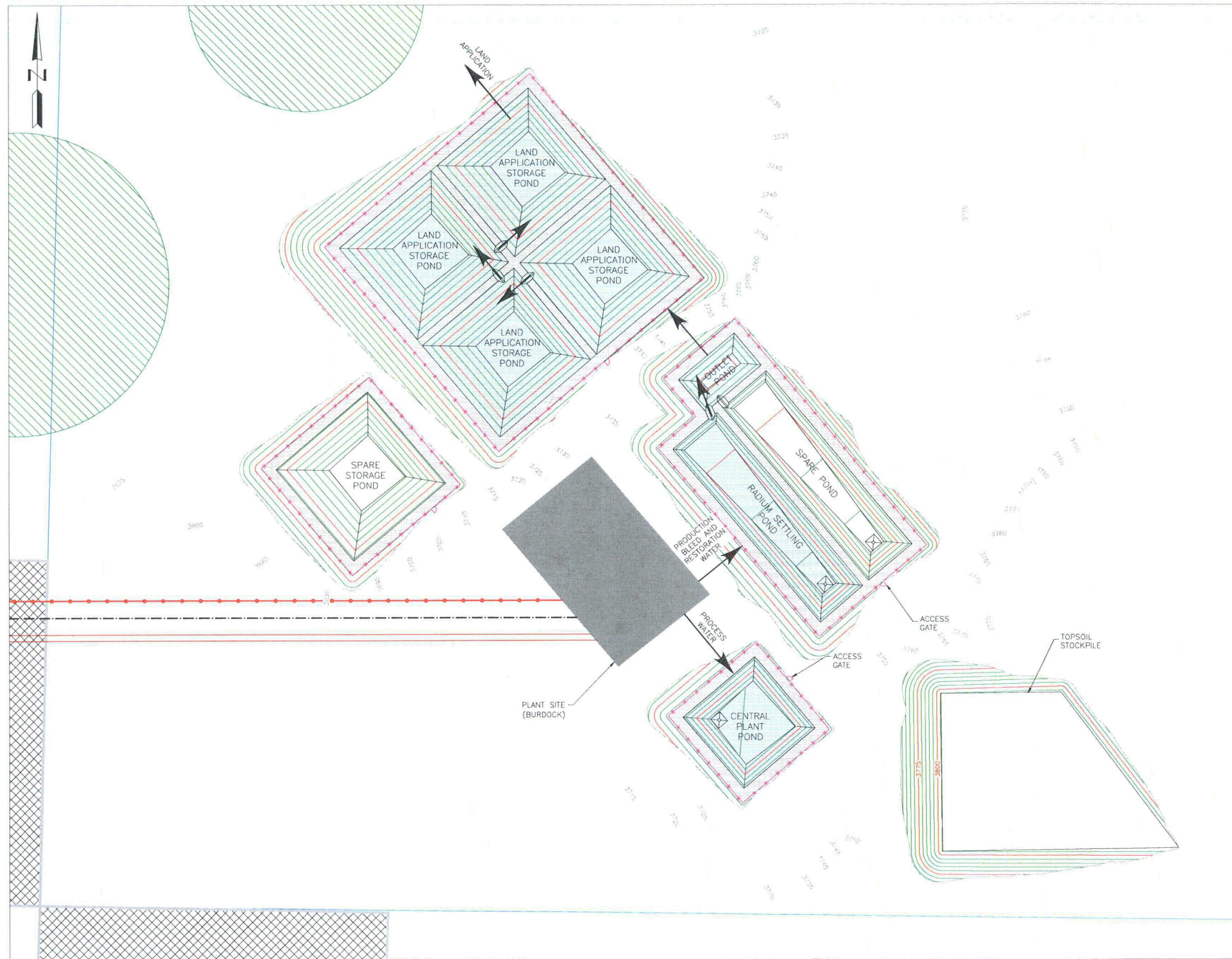
United States Nuclear Regulatory Commission Official Hearing Exhibit			
In the Matter of:		POWERTECH USA, INC. (Dewey-Burdock In Situ Uranium Recovery Facility)	
	ASLBP #:	10-898-02-MLA-BD01	
	Docket #:	04009075	
	Exhibit #:	NRC-141-D-00-BD01	
	Admitted:	8/19/2014	
	Rejected:		
Other:		Identified:	8/19/2014
		Withdrawn:	
		Stricken:	

**NOTES:**

- SCALE BAR MEASURES 3" ON A FULL SIZE PLOT (ANSI-D) AND 1.5" ON A HALF SIZE PLOT (ANSI-B).

CLIENT	POWERTECH (USA) Inc.				
PROJECT	DEWEY-BURDOCK PROJECT				
TITLE	LAND APPLICATION AND IRRIGATION DEWEY POND SECTIONS SHEET 2 OF 2				
<i><b>Knight Piésold</b></i> CONSULTING					
DESIGNED BY	ST	LOCATION	PROJECT NUMBER	FIGURE NUMBER	REVISION
DRAWN BY	RJB	102	279.02	3.3-6	B
ACTIVITY CODE	N/A	REF. NUMBER	N/A		





# LEGEND:

- EXISTING CONTOURS
- REGRADED CONTOURS
- EMBANKMENT ROAD
- NEW ROADS
- RAILROAD
- PERIMETER FENCE
- POWER LINE
- PIPELINE
- EXISTING STREAM
- LAND APPLICATION AREAS
- BLM AREAS
- DIRECTION OF WATER FLOW

## NOTES:

- SCALE BAR MEASURES 3" ON A FULL SIZE PLOT (ANSI-D) AND 1.5" ON A HALF SIZE PLOT (ANSI-B).

PLAN - BURDOCK PLANT SITE

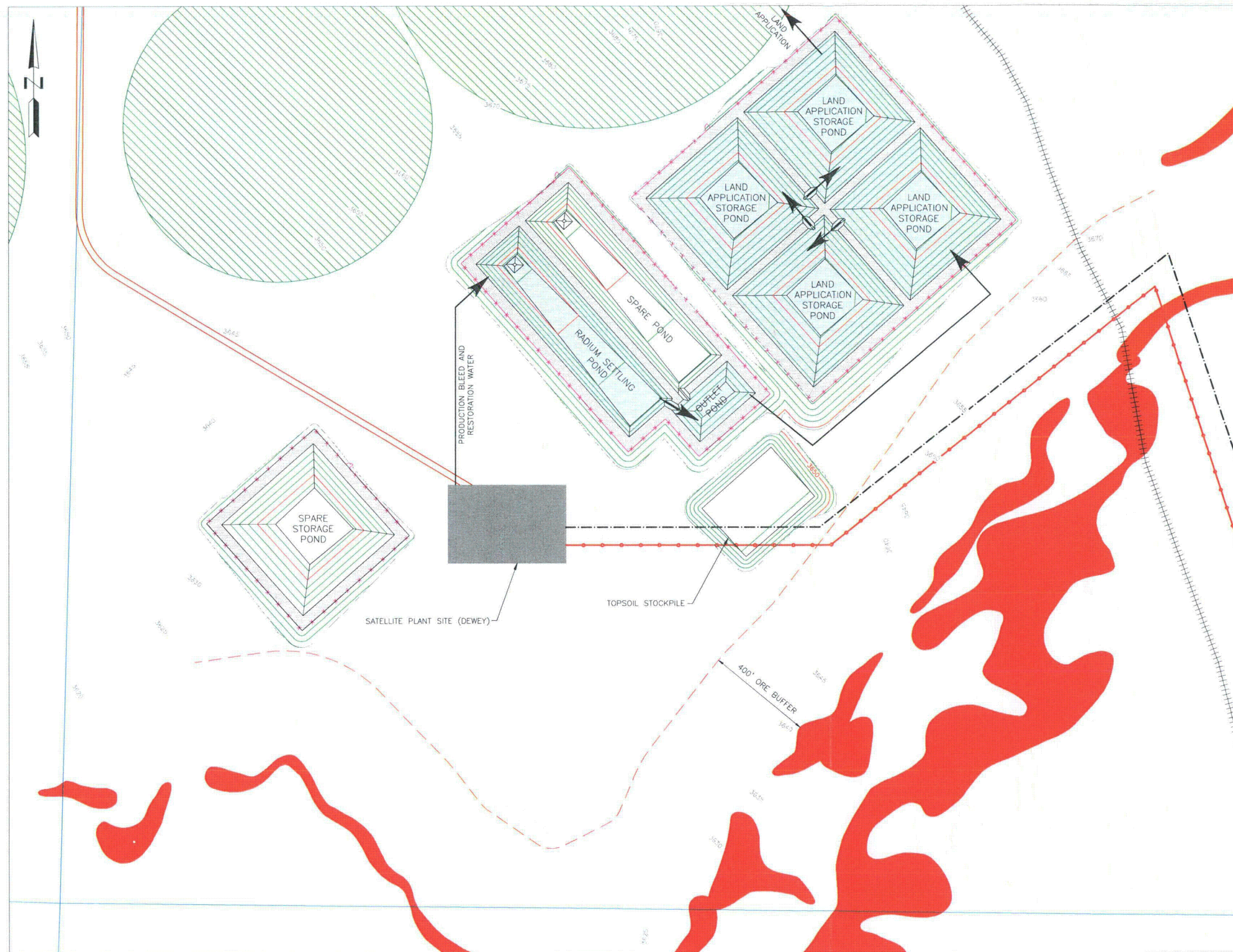


REFERENCE:  
Existing ground surface generated from contours received from  
PowerTech (USA) Inc. and dated 11 December 2008

LAST SAVED BY: RBOWLING  
G:\102\00279.02\CAD\CAD DEPT\Figures\Figure 3-4-1.dwg

CLIENT	POWERTECH (USA) Inc.				
PROJECT	DEWEY-BURDOCK PROJECT				
TITLE	LAND APPLICATION AND IRRIGATION BURDOCK PLANT SITE FLOW DIAGRAM				
<div><i>Knight Piésold</i> CONSULTING</div>					
DESIGNED BY	ST	LOCATION	PROJECT NUMBER	FIGURE NUMBER	REVISION
DRAWN BY	RJB	102	279.02	3.4-1	B
ACTIVITY CODE	N/A	CHECK NUMBER	N/A		





# LEGEND:

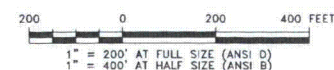
- EXISTING CONTOURS
- REGRADED CONTOURS
- EMBANKMENT ROAD
- RAILROAD
- PERIMETER FENCE
- POWER LINE
- ORE BODIES
- PIPELINE
- EXISTING STREAM
- LAND APPLICATION AREAS
- DIRECTION OF WATER FLOW

## NOTES:

- SCALE BAR MEASURES 3" ON A FULL SIZE PLOT (ANSI-D) AND 1.5" ON A HALF SIZE PLOT (ANSI-B).

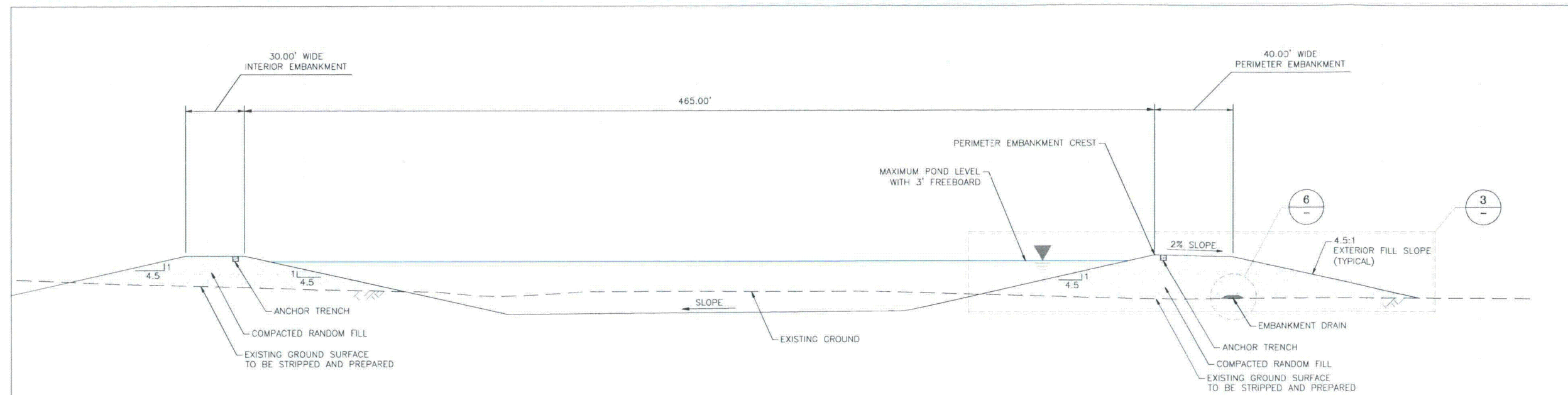
REFERENCE:  
Existing ground surface generated from contours received from  
PowerTech (USA) Inc. and dated 11 December 2008

## PLAN - DEWEY SATELLITE PLANT SITE



CLIENT	POWERTECH (USA) Inc.				
PROJECT	DEWEY-BURDOCK PROJECT				
TITLE	LAND APPLICATION AND IRRIGATION DEWEY PLANT SITE FLOW DIAGRAM				
<div><i><b>Knight Piésold</b></i> <b>CONSULTING</b></div>					
DESIGNED BY	ST	LOCATION	PROJECT NUMBER	FIGURE NUMBER	REVISION
DRAWN BY	RJB	102	279.02	3.4-2	B
ACTIVE PAGE	N/A	REF. NUMBER	N/A		

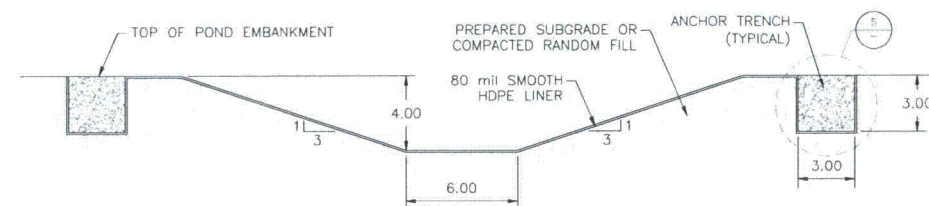




1 1  
3.3-3 3.3-6 STORAGE POND DETAIL  
TYPICAL OF SINGLE LINED PONDS

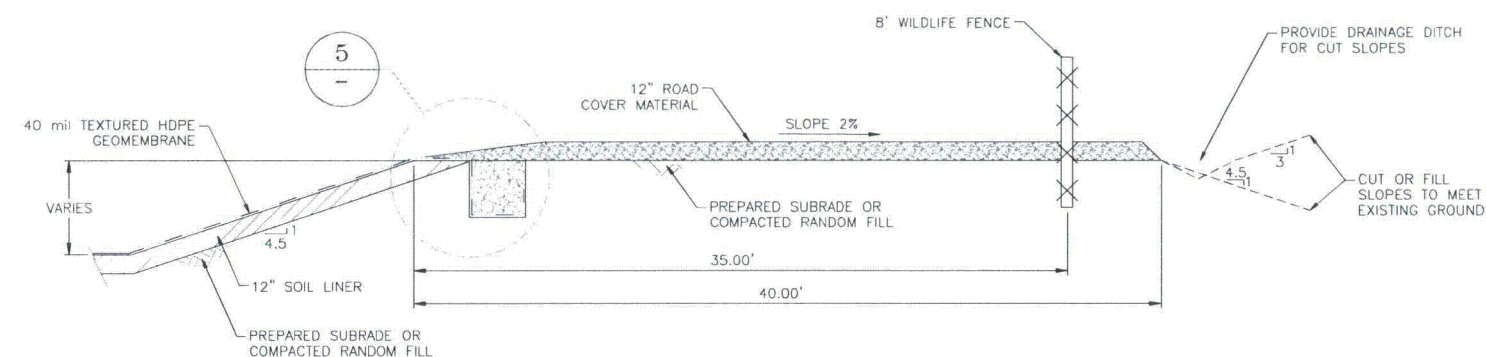
30 0 30 60 FEET  
HORIZONTAL SCALE  
1" = 30' AT FULL SIZE (ANSI D)  
1" = 60' AT HALF SIZE (ANSI B)

30 0 30 60 FEET  
VERTICAL SCALE  
1" = 30' AT FULL SIZE (ANSI D)  
1" = 60' AT HALF SIZE (ANSI B)



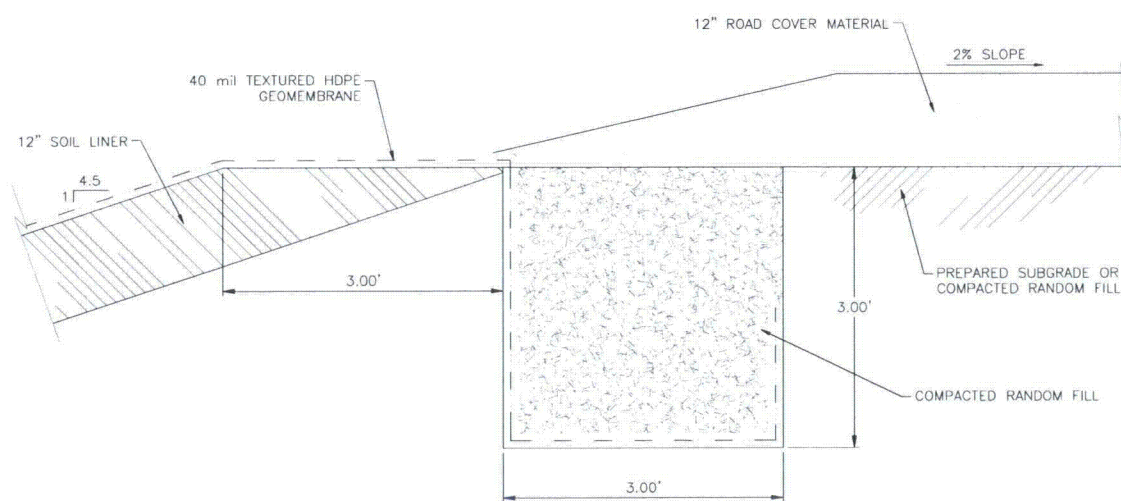
7 7  
3.3-1 3.3-4 SPILLWAY DETAIL

5 0 5 10 FEET  
1" = 5' AT FULL SIZE (ANSI D)  
1" = 10' AT HALF SIZE (ANSI B)



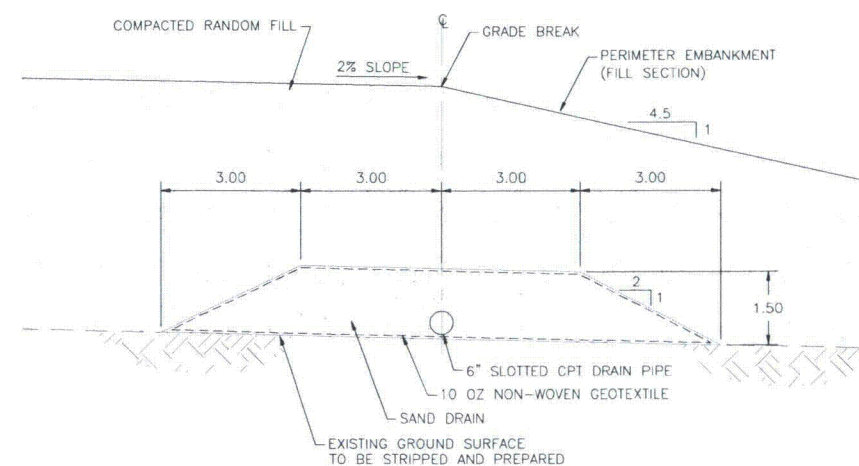
3  
POND EMBANKMENT DETAIL  
FOR SINGLE LINED PONDS

5 0 5 10 FEET  
1" = 5' AT FULL SIZE (ANSI D)  
1" = 10' AT HALF SIZE (ANSI B)



5  
LINER ANCHOR TRENCH DETAIL  
FOR SINGLE LINED PONDS

1 0 1 2 FEET  
1" = 1' AT FULL SIZE (ANSI D)  
1" = 2' AT HALF SIZE (ANSI B)



6  
EMBANKMENT DRAIN DETAIL

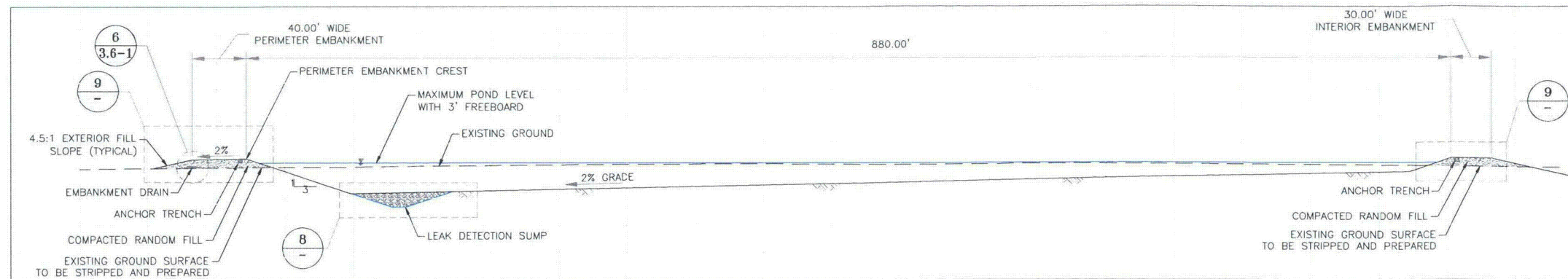
2 0 2 4 FEET  
1" = 2' AT FULL SIZE (ANSI D)  
1" = 4' AT HALF SIZE (ANSI B)

#### NOTES:

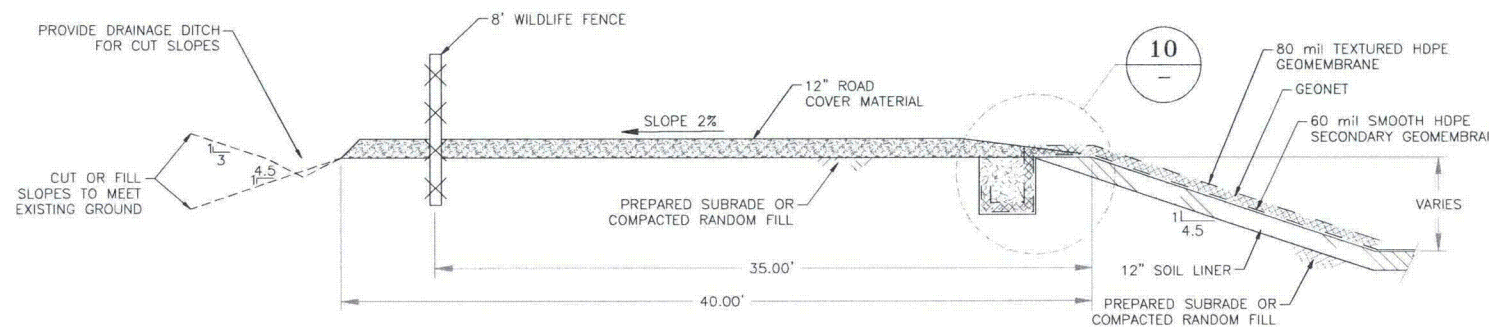
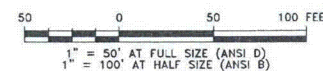
- SCALE BAR MEASURES 3" ON A FULL SIZE PLOT (ANSI-D) AND 1.5" ON A HALF SIZE PLOT (ANSI-B).
- EMBANKMENT DRAINS TO BE CONSTRUCTED BENEATH ALL FILL EMBANKMENTS.

CLIENT	POWERTECH (USA) Inc.				
PROJECT	DEWEY-BURDOCK PROJECT				
TITLE	LAND APPLICATION AND IRRIGATION TYPICAL POND SECTIONS AND DETAILS SHEET 1 OF 2				
<div><i><b>Knight Piésold</b></i> <b>CONSULTING</b></div>					
DESIGNED BY	ST	LOCATION	PROJECT NUMBER	FIGURE NUMBER	REVISION
DRAWN BY	RJB	DV-102	279-02	3.6-1	B
ACTIVITY CODE	N/A	REF NUMBER	N/A		

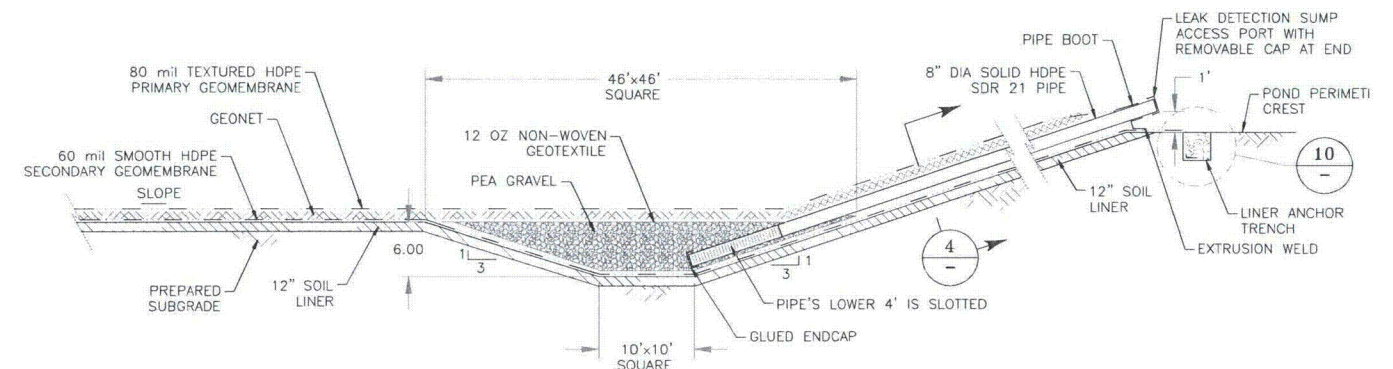




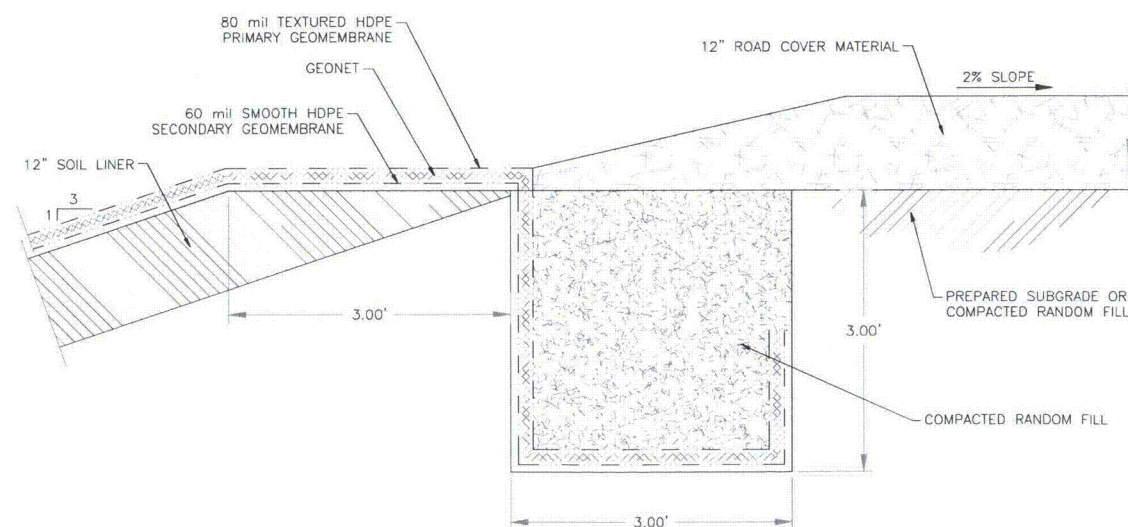
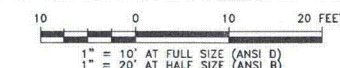
2 2 RADIUM SETTLING POND DETAIL  
3.3-2 3.3-5 TYPICAL OF DOUBLE LINED PONDS



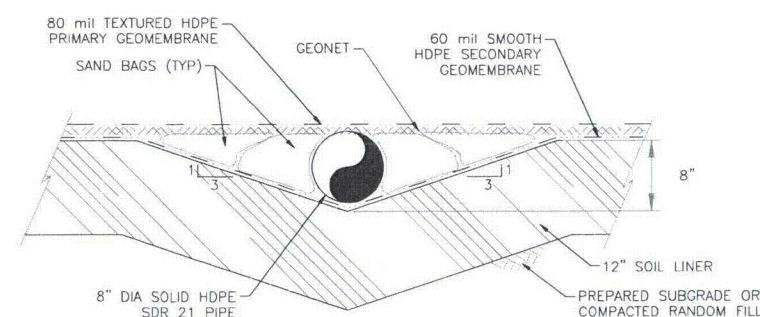
9 POND EMBANKMENT DETAIL  
FOR DOUBLE LINED PONDS



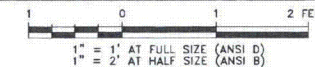
8 LEAK DETECTION SUMP AND ACCESS PORT DETAIL



10 ANCHOR TRENCH AND LINER DETAIL  
FOR DOUBLE LINED PONDS



4 LEAK DETECTION SUMP ACCESS PORT DETAIL

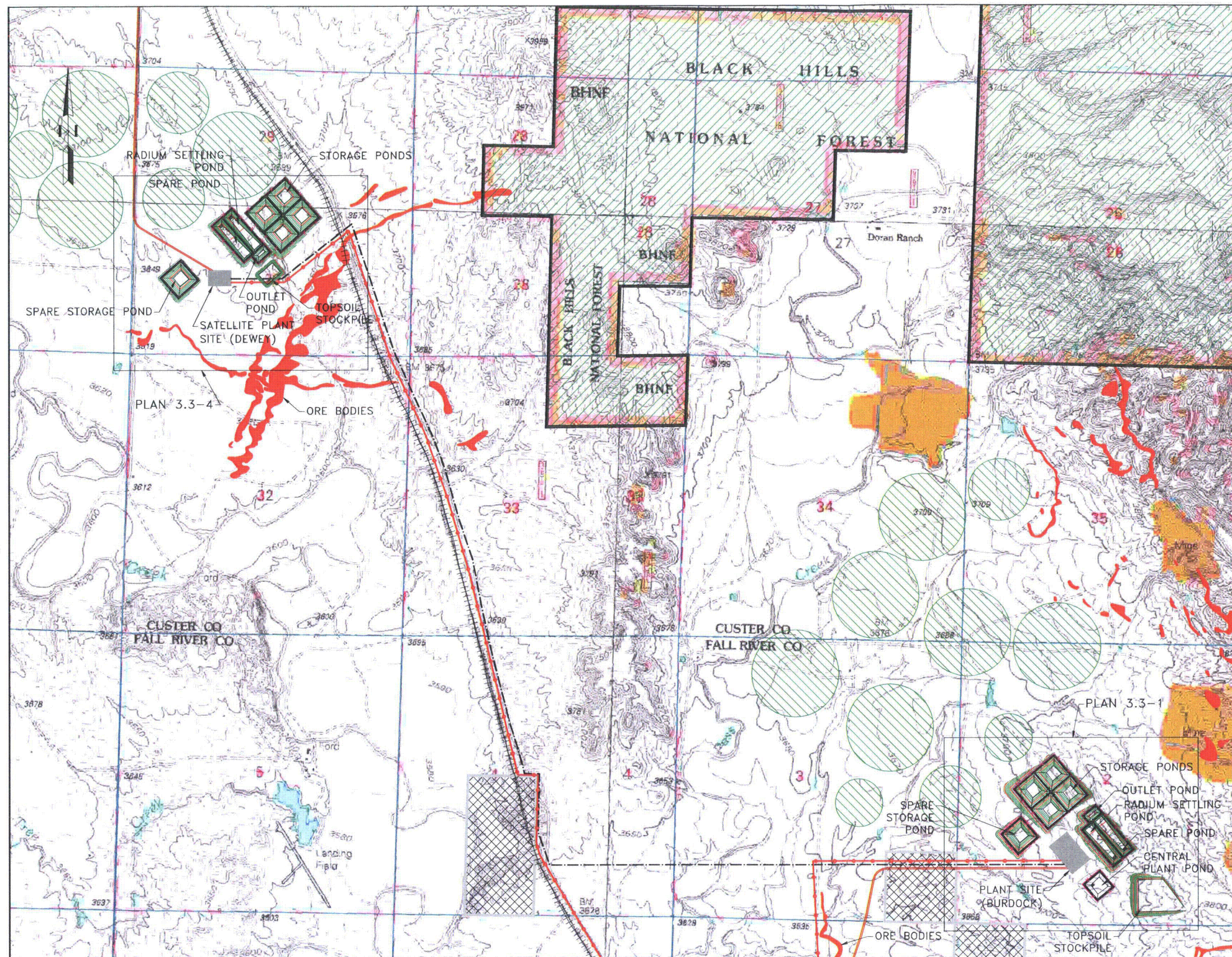


NOTES:

- SCALE BAR MEASURES 3" ON A FULL SIZE PLOT (ANSI-D) AND 1.5" ON A HALF SIZE PLOT (ANSI-B).
- EMBANKMENT DRAINS TO BE CONSTRUCTED BENEATH ALL FILL EMBANKMENTS.

CLIENT	POWERTECH (USA) Inc.				
PROJECT	DEWEY-BURDOCK PROJECT				
TITLE	LAND APPLICATION AND IRRIGATION TYPICAL POND SECTIONS AND DETAILS SHEET 2 OF 2				
<i><b>Knight Piésold</b></i> CONSULTING					
DESIGNED BY	ST	LOCATION	PROJECT NUMBER	FIGURE NUMBER	REVISION
DRAWN BY	RJB	DV-102	279-02	3.6-2	B
ACTIVITY CODE	N/A	REF. NUMBER	N/A		





# LEGEND:

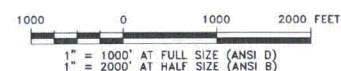
- REGRADED CONTOURS
- EXISTING ROAD
- NEW ROADS
- RAILROAD
- POWER LINE
- PIPELINE
- EXISTING STREAM
- ORE BODIES
- LAND APPLICATION AREAS
- NATIONAL FOREST
- BLM AREAS

## NOTES:

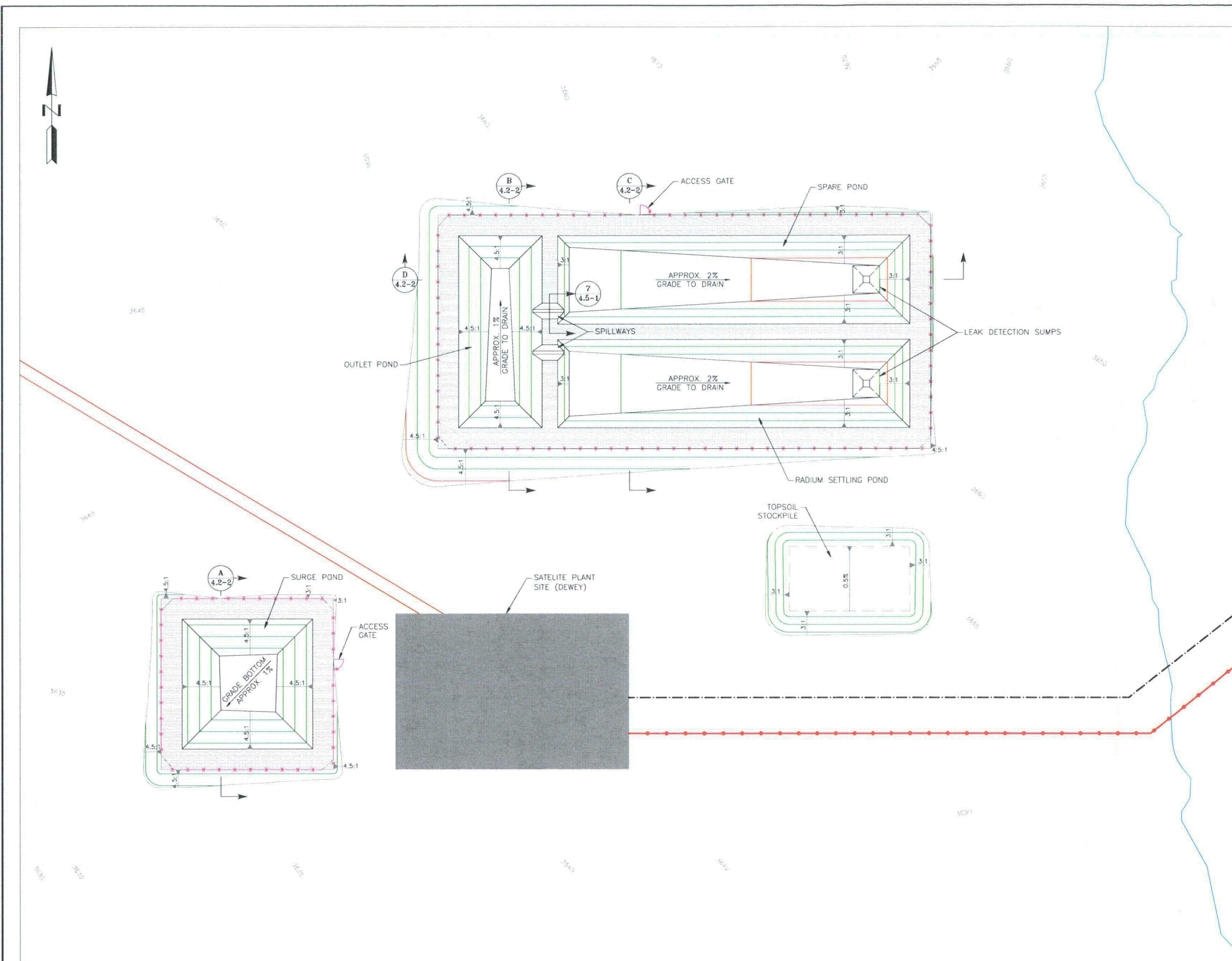
- SCALE BAR MEASURES 3" ON A FULL SIZE PLOT (ANSI-D) AND 1.5" ON A HALF SIZE PLOT (ANSI-B).

CLIENT	POWERTECH (USA) Inc.				
PROJECT	DEWEY-BURDOCK PROJECT				
TITLE	LAND APPLICATION AND IRRIGATION SITE PLAN				
<div><i>Knight Piésold</i> CONSULTING</div>					
DESIGNED BY	ST	LOCATION	PROJECT NUMBER	FIGURE NUMBER	REVISION
DRAWN BY	RJB	102	279.02	3.7-1	B
ACTIVITY CODE	N/A	REF NUMBER	N/A		

## PLAN







# LEGEND:

- REGRADED CONTOURS
- EMBANKMENT ROAD
- PERIMETER FENCE
- POWER LINE
- PIPELINE
- ORE BODIES

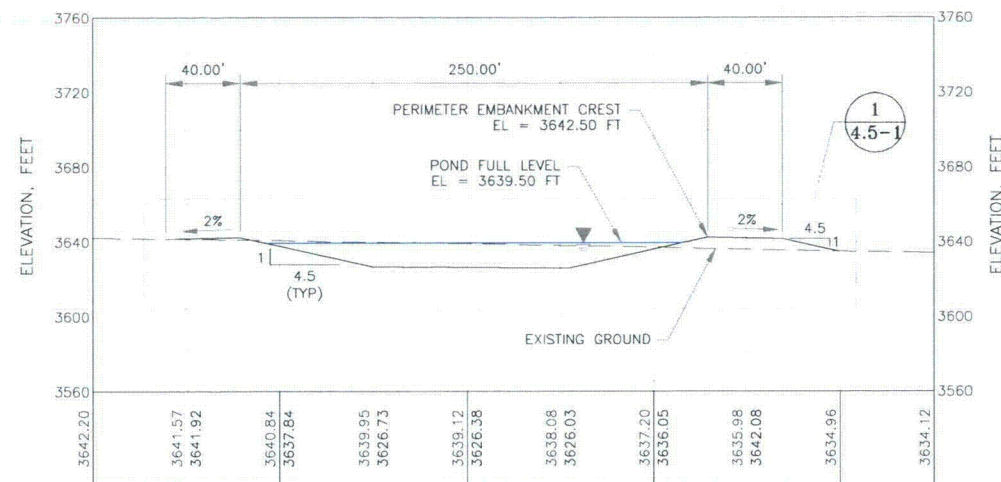
## NOTES:

- SCALE BAR MEASURES 3" ON A FULL SIZE PLOT (ANSI-D) AND 1.5" ON A HALF SIZE PLOT (ANSI-B).

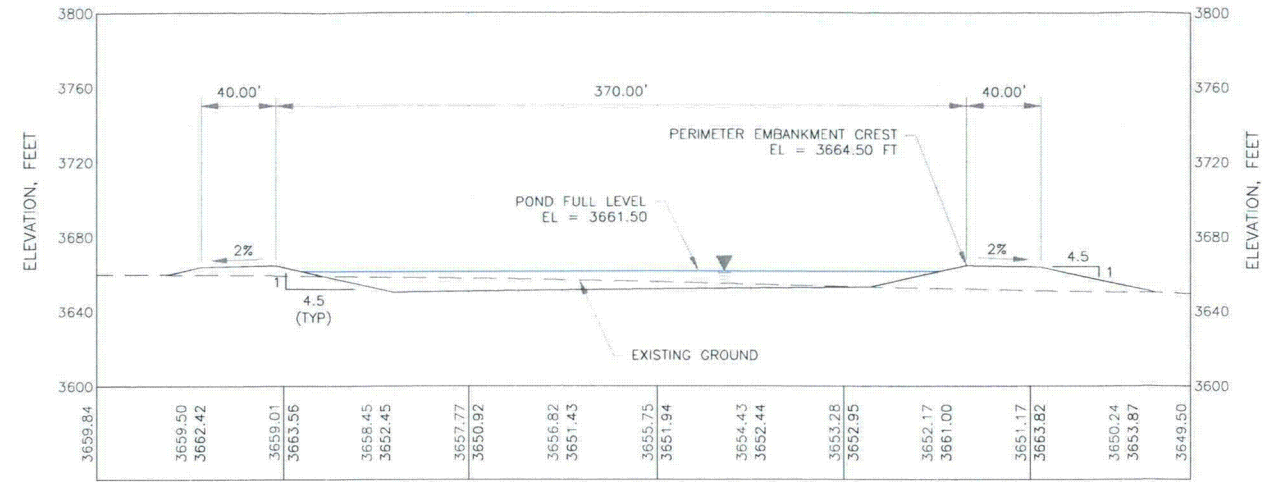
CLIENT		POWERTECH (USA) Inc.			
PROJECT		DEWEY-BURDOCK PROJECT			
TITLE		DEEP WELL DISPOSAL DEWEY PLANT SITE PLAN			
<div><i><b>Knight Piésold</b></i> <b>CONSULTING</b></div>					
DESIGNED BY	ST	LOCATION	PROJECT NUMBER	FIGURE NUMBER	REVISION
DRAWN BY	RSP	DV-102	279-05	4.2-1	B
ACTIVITY CODE	N/A	*REF NUMBER	N/A		

REFERENCE:  
Existing ground surface generated from contours received from  
PowerTech (USA) Inc. and dated 11 December 2008

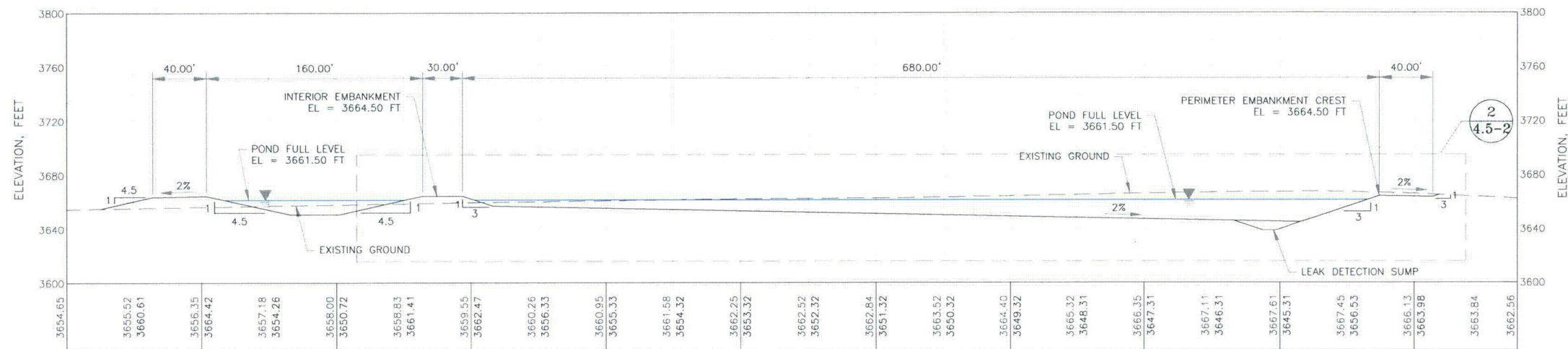




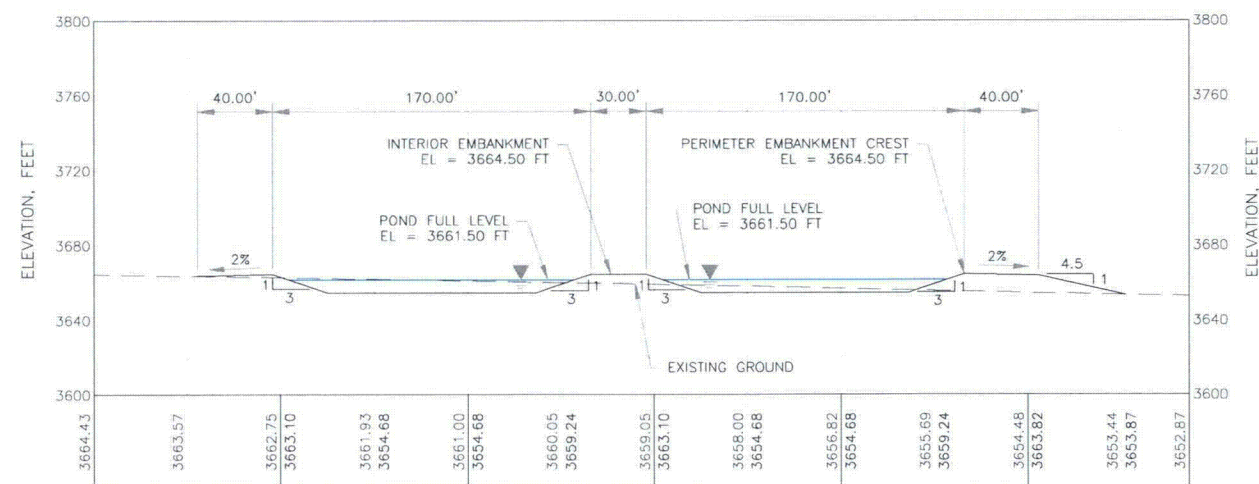
**A** DEWEY SURGE POND  
4.2-1 SECTION



**B** DEWEY OUTLET POND  
4.2-1 SECTION



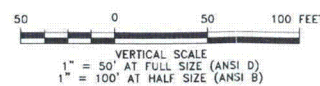
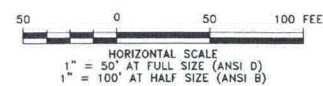
**D** DEWEY OUTLET AND RADIUM SETTLING PONDS  
4.2-1 SECTION



**C** DEWEY RADIUM SETTLING AND SPARE PONDS  
4.2-1 SECTION

**NOTES:**

1. SCALE BAR MEASURES 3" ON A FULL SIZE PLOT (ANSI-D) AND 1.5" ON A HALF SIZE PLOT (ANSI-B).

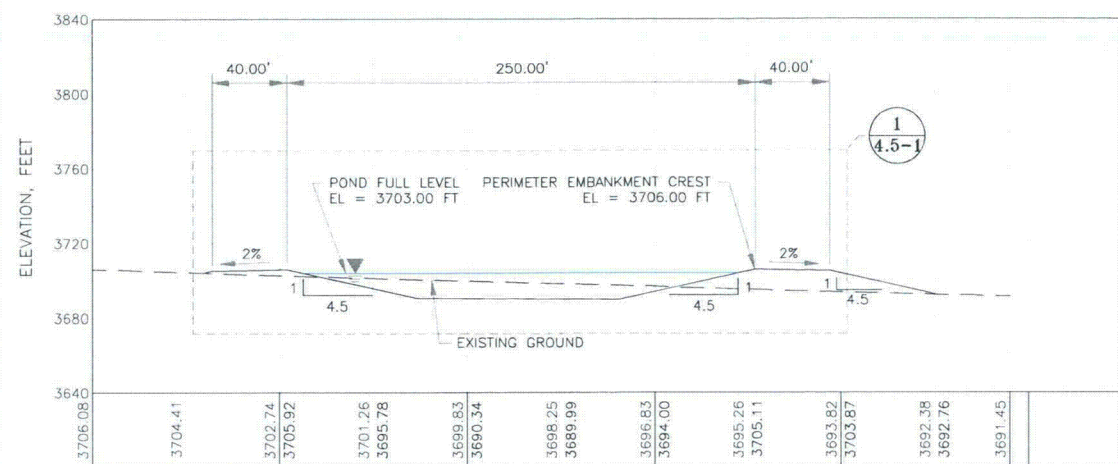


CLIENT		POWERTECH (USA) Inc.			
PROJECT		DEWEY-BURDOCK PROJECT			
TITLE		DEEP WELL DISPOSAL DEWEY POND SECTIONS			
<div>Knight Piésold CONSULTING</div>					
DESIGNED BY	ST	LOCATION	PROJECT NUMBER	FIGURE NUMBER	REVISION
DRAWN BY	RJB	DV-102	279.05	4.2-2	B
ACTIVITY CODE	N/A	REF NUMBER	N/A		

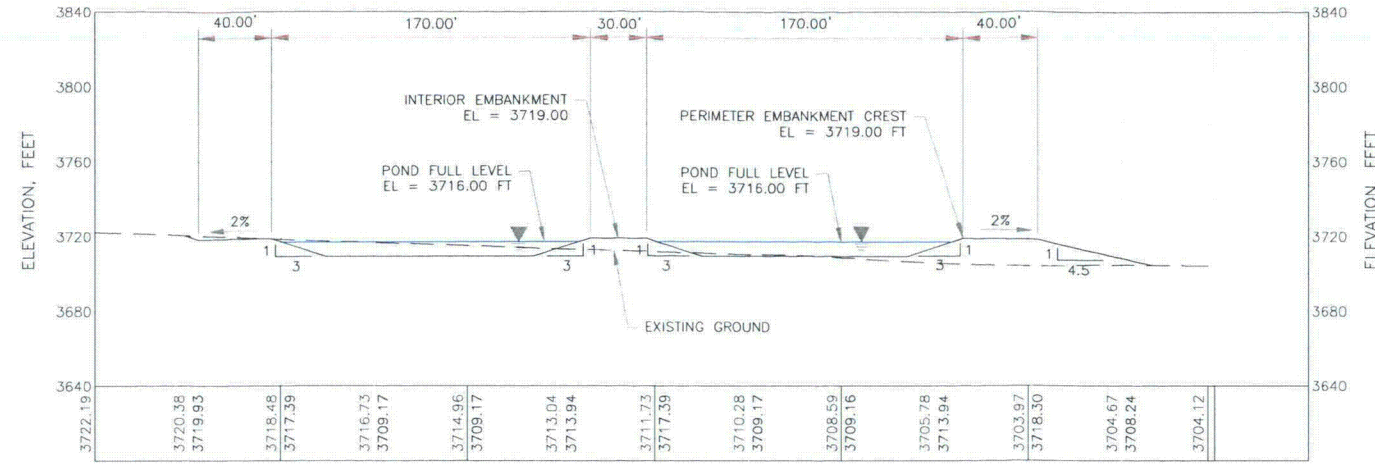




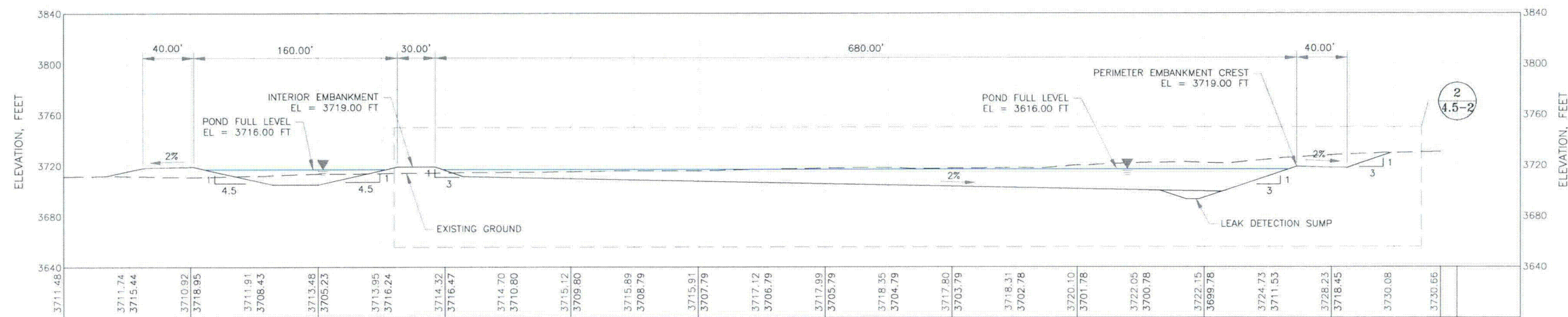




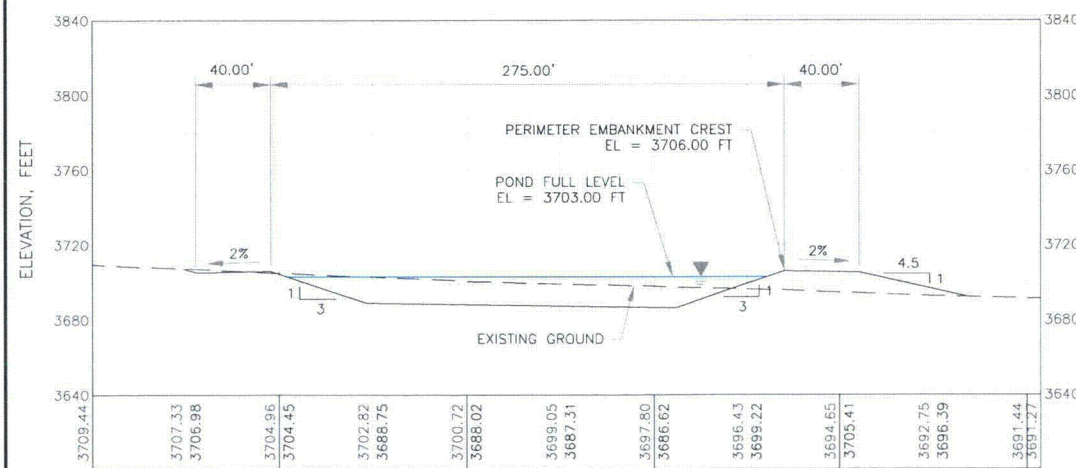
**A**  
4.2-3  
**BURDOCK SURGE POND SECTION**



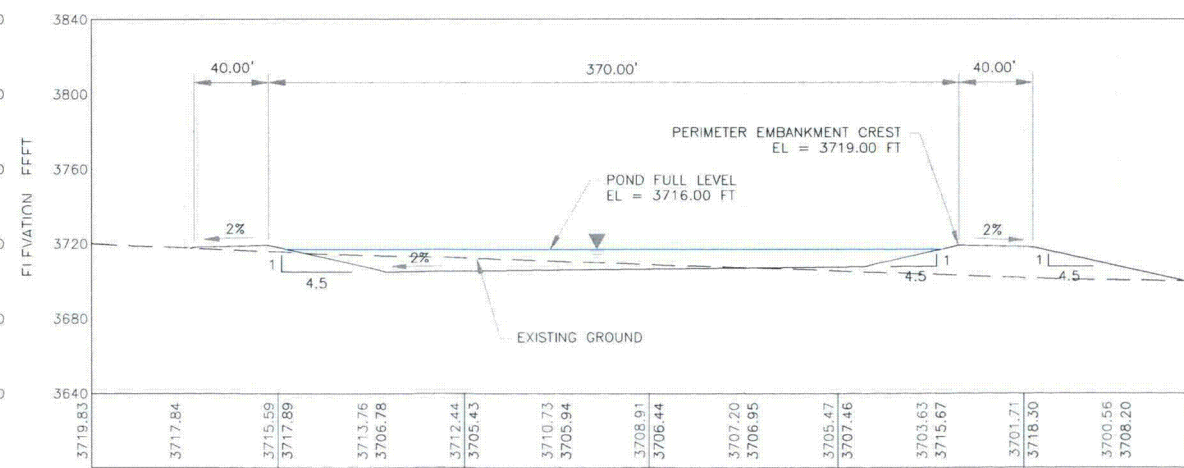
**B**  
4.2-3  
**BURDOCK RADIUM SETTLING PONDS SECTION**



**C**  
4.2-3  
**BURDOCK RADIUM SETTLING AND OUTLET PONDS SECTION**



**D**  
4.2-3  
**CENTRAL PLANT POND SECTION**

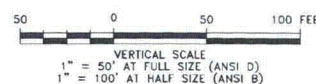
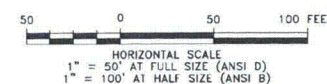


**E**  
4.2-3  
**OUTLET POND SECTION**

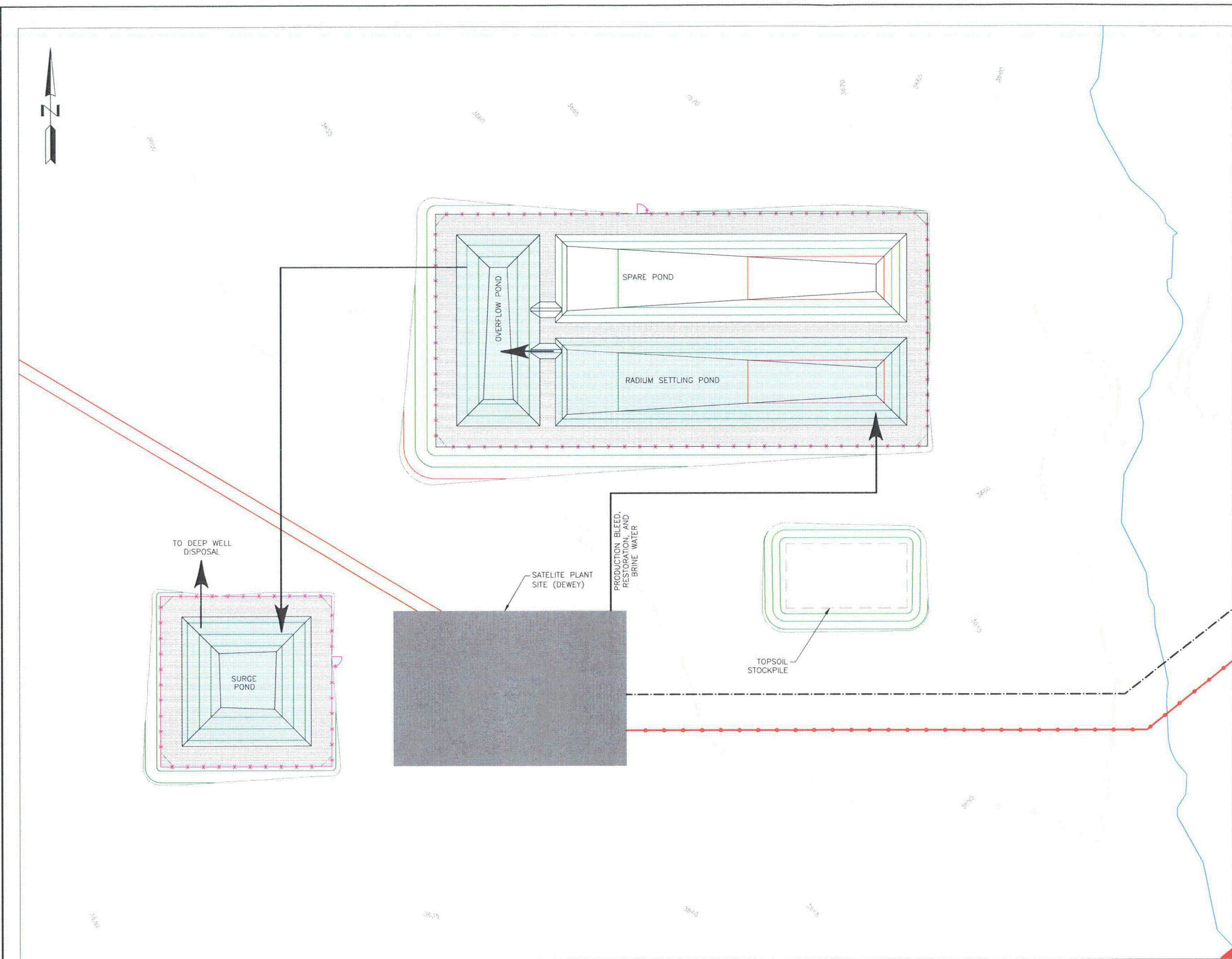
**NOTES:**

1. SCALE BAR MEASURES 3" ON A FULL SIZE PLOT (ANSI-D) AND 1.5" ON A HALF SIZE PLOT (ANSI-B).

CLIENT	POWERTECH (USA) Inc.				
PROJECT	DEWEY-BURDOCK PROJECT				
TITLE	DEEP WELL DISPOSAL BURDOCK POND SECTIONS				
<i><b>Knight Piésold</b></i> <b>CONSULTING</b>					
DESIGNED BY	ST	LOCATION	PROJECT NUMBER	FIGURE NUMBER	REVISION
DRAWN BY	RJB	DV-102	279.05	4.2-4	B
ACTIVITY CODE	N/A	REF. NUMBER	N/A		





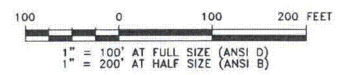


- LEGEND:**
- EXISTING CONTOURS
  - REGRADED CONTOURS
  - ROAD
  - PERIMETER FENCE
  - ORE BODIES
  - PIPELINE
  - POWER LINE
  - DIRECTION OF WATER FLOW

- NOTES:**
- SCALE BAR MEASURES 3" ON A FULL SIZE PLOT (ANSI-D) AND 1.5" ON A HALF SIZE PLOT (ANSI-B).

REFERENCE:  
Existing ground surface generated from contours received from PowerTech (USA) Inc. and dated 11 December 2004.

PLAN - DEWEY PLANT SITE



CLIENT	POWERTECH (USA) Inc.				
PROJECT	DEWEY-BURDOCK PROJECT				
TITLE	DEEP WELL DISPOSAL DEWEY PLANT SITE FLOW DIAGRAM				
<div><i><b>Knight Piésold</b></i> CONSULTING</div>					
DESIGNED BY	ST	LOCATION	PROJECT NUMBER	FIGURE NUMBER	REVISION
DRAWN BY	RSP	DV-102	279-05	4.3-1	B
ACTIVITY CODE	N/A	REF. NUMBER	N/A		