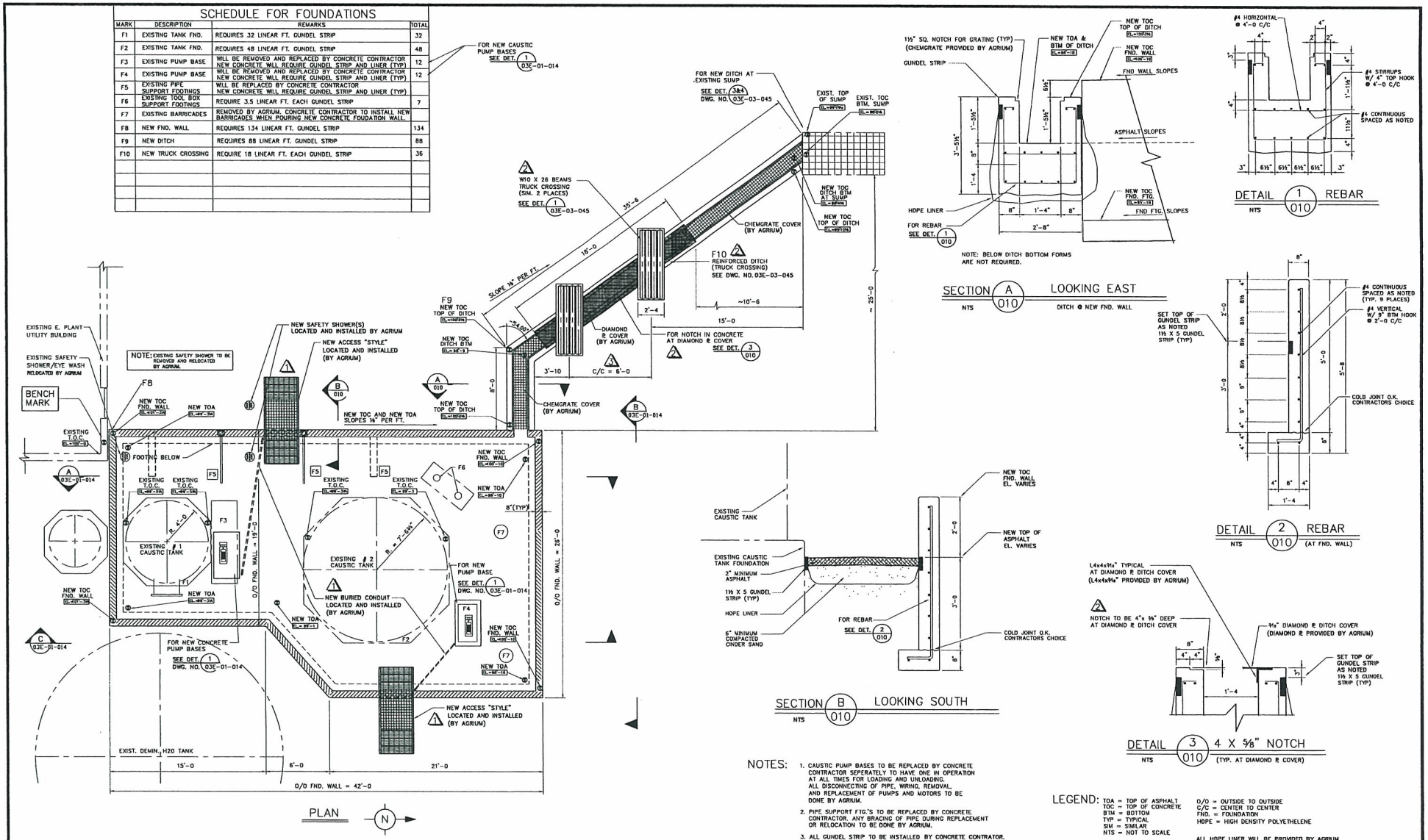
D

SCHEDULE FOR FOUNDATIONS

MARK	DESCRIPTION	REMARKS	TOTAL
F1	EXISTING TANK FND.	REQUIRES 32 LINEAR FT. GUNDEL STRIP	32
F2	EXISTING TANK FND.	REQUIRES 48 LINEAR FT. GUNDEL STRIP	48
F3	EXISTING PUMP BASE	WILL BE REMOVED AND REPLACED BY CONCRETE CONTRACTOR NEW CONCRETE WILL REQUIRE GUNDEL STRIP AND LINER (TYP)	12
F4	EXISTING PUMP BASE	WILL BE REMOVED AND REPLACED BY CONCRETE CONTRACTOR NEW CONCRETE WILL REQUIRE GUNDEL STRIP AND LINER (TYP)	12
F5	EXISTING PIPE SUPPORT FOOTINGS	WILL BE REPLACED BY CONCRETE CONTRACTOR NEW CONCRETE WILL REQUIRE GUNDEL STRIP AND LINER (TYP)	
F6	EXISTING TOOL BOX SUPPORT FOOTINGS	REQUIRE 3.5 LINEAR FT. EACH GUNDEL STRIP	7
F7	EXISTING BARRICADES	REMOVED BY AGRIUM. CONCRETE CONTRACTOR TO INSTALL NEW BARRICADES WHEN POURING NEW CONCRETE FOUDATION WALL.	
F8	NEW FND. WALL	REQUIRES 134 LINEAR FT. GUNDEL STRIP	134
F9	NEW DITCH	REQUIRES 88 LINEAR FT. GUNDEL STRIP	88
F10	NEW TRUCK CROSSING	REQUIRE 18 LINEAR FT. EACH GUNDEL STRIP	36



NOTES:

1. CAUSTIC PUMP BASES TO BE REPLACED BY CONCRETE CONTRACTOR SEPERATELY TO HAVE ONE IN OPERATION AT ALL TIMES FOR LOADING AND UNLOADING. ALL DISCONNECTING OF PIPE, WIRING, REMOVAL, AND REPLACEMENT OF PUMPS AND MOTORS TO BE DONE BY AGRIUM.
2. PIPE SUPPORT FTG.'S TO BE REPLACED BY CONCRETE CONTRACTOR. ANY BRACING OF PIPE DURING REPLACEMENT OR RELOCATION TO BE DONE BY AGRIUM.
3. ALL GUNDEL STRIP TO BE INSTALLED BY CONCRETE CONTRATOR.

LEGEND: TOA = TOP OF ASPHALT
TOC = TOP OF CONCRETE
BTM = BOTTOM
TYP = TYPICAL
SIM = SIMILAR
NTS = NOT TO SCALE
O/O = OUTSIDE TO OUTSIDE
C/C = CENTER TO CENTER
FND. = FOUNDATION
HDPE = HIGH DENSITY POLYETHELENE

ALL HDPE LINER WILL BE PROVIDED BY AGRIUM.

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PRINT RECORD

NO.	DATE	TO	NO.	DATE	TO

REFERENCE DRAWINGS

- 03E-01-009 SITE PLAN FOR SECONDARY CONTAINMENT
- 03E-01-014 ELEVATIONS
- 03E-03-045 DETAILS AT CASTIC TANKS

REVISIONS

NO.	DATE	BY	DESCRIPTION	APR
1	4/30/98	LS	SAFETY SHOWER RELOCATION, ACCESS "STYLES, AND CONDUIT FOR START/STOP AT F4 PUMP BASE TO BE DONE BY AGRIUM.	
2	4/30/98	LS	TRUCK CROSSING BEAMS AT DITCH, TO BE MADE WITH 4 BEAMS @ EACH SIDE INSTEAD OF 3 BEAMS. ALSO ADDED 4" ANGLE IRON TO DITCH REINFORCEMENT AREA.	
3	5/29/98	LS	CHANGED C/C TO 6'-0. DIM. WAS 7'-6	

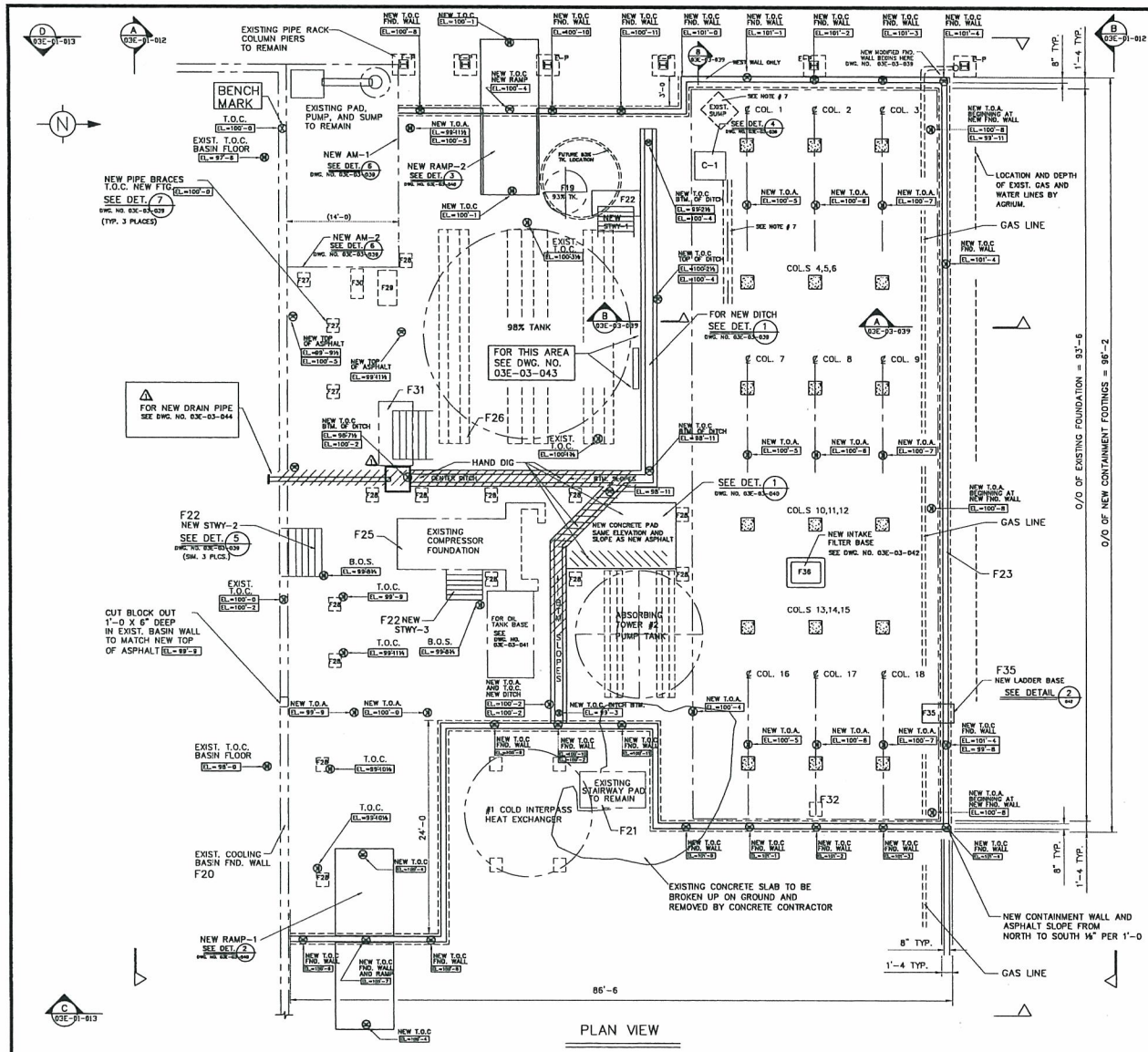
ENG. RECORD		DATE
DRAWN BY	LS	5/28/97
TRACED BY		
CHECKED BY		
APPROVED BY		
W.O. NO.		
SCALE: 1/4" = 1'-0 U.N.O.		

Agrium

AGRIUM CPO INC.
3010 CONDA RD. SODA SPRINGS, ID 83276
EAST SULFURIC PLANT
SECONDARY CONTAINMENT
PLAN AT CAUSTIC STORAGE TANKS

DWG NO. 03E-01-010 REV 2

NUW 004677



SCHEDULE FOR FOUNDATIONS

MK NO.	DESCRIPTION	REMARKS	QUANTITY	TOTAL
F1–F18	ABSORBING TOWER COL.'S #1–18	REQUIRE 6.66 LINEAR FT. OF GUNDEL STRIP @ EACH COLUMN	6.66 X 18 COL.'S	119.88 LN. FT.
F19	93% TK. FND.	REQUIRES 28 LINEAR FT. OF GUNDEL STRIP	7'–0 X 4 SIDES	28 LN. FT.
F20	EXISTING COOLING BASIN FND. WALL	REQUIRES 130 LINEAR FT. OF GUNDEL STRIP, ELEVATION VARIES, SEE SECTIONAL VIEWS. DWG. NO.'S 03E-01-12 AND 13		130 LN. FT.
F21	EXISTING STAIRWAY FOOTING	DOES NOT REQUIRE ANY GUNDEL STRIP		
F22	NEW STAIRWAY FOOTINGS	REQUIRE 16 LINEAR FT. OF GUNDEL STRIP EACH (FOOTINGS REPLACED BY CONTRACTOR) SEE DET. 5 DWG. NO. 03E-03-039	3 FTG.'S	48 LN. FT.
F23	NEW CONTAINMENT WALLS	REQUIRE 280 LINEAR FT. OF GUNDEL STRIP, REFER TO DWG. NO. 03E-03-039		280 LN. FT.
F24	NEW CONTAINMENT DITCHES	REQUIRE 260 LINEAR FT. OF GUNDEL STRIP, REFER TO DWG. NO. 03E-03-039		260 LN. FT.
F25	EXISTING COMPRESSOR BUILDING FOUNDATION	REQUIRES 66 LINEAR FT. OF GUNDEL STRIP		66 LN. FT.
F26	EXISTING FOUNDATION 98% TANK EAST SIDE	SEE DWG. NO. 03E-03-043		
F27	NEW CONCRETE PIPE SUPPORTS	EXISTING FOOTINGS REMOVED AND REPLACED BY CONTRACTOR SEE DET. 7 DWG. NO. 03E-03-039	3 FTGS.	12 LN. FT.
F28	EXISTING COLUMN FOOTINGS	EXISTING TO REMAIN, CONTRACTOR TO ADD GUNDEL STRIP TO EACH	13 FTGS.	76 LN. FT.
F29	EXISTING PUMP BASE	EXISTING TO REMAIN, CONTRACTOR TO ADD GUNDEL STRIP		10 LN. FT.
F30	ABANDONED PUMP BASE	REMOVED BY CONTRACTOR		
F31	EXIST. STAIRWAY LANDING	REQUIRES 16 LINEAR FT. OF GUNDEL STRIP	1 FTG.	16 LN. FT.
F33 F34	EXIST. SAFETY SHOWER GRATING	CONCRETE CONTRACTOR TO REMOVE EXIST.C6 FRAME SEE DET. 1 DWG. NO. 03E-03-042	4 PLACES	45'–4 LN. FT.
F35	LADDER BASE	SEE DET. 2 DWG. NO. 03E-03-042	1 LADDER	13'–0 LN. FT.
F36	INTAKE AIR FILTER BASE	SEE DET. 3 DWG. NO. 03E-03-042		21'–3 LN. FT.
F37	PIPE SUPPORT FOOTINGS	SEE DET. 4 DWG. NO. 03E-03-041	4 PLACES	28'–0 LN. FT.
F38	EXIST. OIL TANK BASE	EXISTING TO REMAIN, CONTRACTOR TO ADD GUNDEL STRIP SEE DET. 1 DWG. NO. 03E-03-041	2 PLACES	20'–0 LN. FT.
AM–1	ASPHALT MOUND	MOUND OF ASPHALT 8" TALL AND 22'–0 LONG AT TOP OF EXISTING SUMP CONCRETE PAD AT ELEVATION 100'–8 MATCHING NEW CONTAINMENT WALL ELEV.	SEE DET. 6 DWG. NO. 03E-03-039	
AM–2	ASPHALT MOUND	MOUND OF ASPHALT 8" TALL AND 14'–0 LONG AT TOP OF EXISTING SUMP CONCRETE PAD AT ELEVATION 100'–8 MATCHING NEW CONTAINMENT WALL ELEV.	SEE DET. 6 DWG. NO. 03E-03-039	
C–1	CONCRETE SLAB	CONCRETE SLAB SUPPORT TO BE REMOVED AND REPLACED BY CONTRACTOR. NEW T.O.C. TO BE 100'–8. (DUCTS MUST BE SUPPORTED DURING REPLACEMENT OF CONCRETE)		SEE DET. 4 DWG. NO. 03E-03-039
STWY–1	STAIRWAY LANDING	NEW STAIRWAY LANDING, CONTRACTOR TO REMOVE EXIST. AND REPLACE NEW T.O.C. ELEV. = 100'–7	SEE DET. 5 DWG. NO. 03E-03-039	
STWY–2	STAIRWAY LANDING	NEW STAIRWAY LANDING, CONTRACTOR TO REMOVE EXIST. AND REPLACE NEW T.O.C. ELEV. = 100'–4	SEE DET. 5 DWG. NO. 03E-03-039	
STWY–3	STAIRWAY LANDING	NEW STAIRWAY LANDING, CONTRACTOR TO REMOVE EXIST. AND REPLACE NEW T.O.C. ELEV. = 100'–4	SEE DET. 5 DWG. NO. 03E-03-039	
E–P	EXISTING COL. PIER	PIER FOOTINGS FOR EXISTING PIPE RACK SEE DWG. NO. 03E-03-020 FOR DETAILS (SHOWN FOR REFERENCE ONLY)		

LEGEND:

T.O.A. = TOP OF ASPHALT
T.O.C. = TOP OF CONCRETE
FND. = FOUNDATION
FTG. = FOOTING
BTM. = BOTTOM
TYP. = TYPICAL
HDPE = HIGH DENSITY POLYETHELENE

PLCS. = PLACES
EXIST. = EXISTING
COL. = COLUMN
STWY = STAIRWAY
BOS = BOTTOM OF STEEL
AM = ASPHALT MOUND
E-P = EXIST. PIER

EL.= AT DOUBLE BOXES; TOP BOX FOR NEW TOP OF STEEL, CONCRETE, OR ASPHALT.
EL.= BOTTOM BOX REPRESENTS EXISTING GRADE

NOTES:

1. ALL EXISTING CONCRETE FOUNDATIONS, COLUMN PIERS, STAIRWAY FOOTINGS, ETC. MUST HAVE GUNDEL STRIPS ATTACHED TO CONCRETE BY CONCRETE CONTRACTOR. (TYP. INSIDE CONTAINMENT WALLS.)
2. GUNDEL STRIP AND HDPE LINER PROVIDED AND DELIVERED TO THE JOB SITE BY AGRIUM.
3. EXCEPT WHERE NOTED HDPE LINER INSTALLATION IS NOT PART OF THIS CONTRACT.
4. CHEMGRATE FIBERGLASS GRATING PROVIDED BY AGRIUM. TO BE CUT AND INSTALLED BY CONCRETE CONTRACTOR.
5. ALL EXCAVATION TO BE DONE BY CONCRETE CONTRACTOR.
6. ALL EXISTING DRISCO PIPES ON THE GROUND TO BE REMOVED BY AGRIUM.
7. EXISTING SUMP BY COL. 1 AND ALL DRISCO PIPE EXIST. ON GROUND. TO BE REMOVED BY AGRIUM.
8. FOR EXCAVATION DEPTHS SEE DWG. NO.S 03E-03-012 AND 03E-03-013

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PRINT RECORD

NO.	DATE	TO	NO.	DATE	TO

REFERENCE DRAWINGS

03E-03-040	RAMPS AND DETAILS
03E-01-013	ELEVATIONS EAST AND WEST
03E-01-012	ELEVATIONS NORTH AND SOUTH
03E-03-041	
03E-03-042	
03E-03-043	

REVISIONS

NO.	DATE	BY	DESCRIPTION	APR
1	5/15/97	D.A.	REPLACING PART OF CENTER DITCH W/ PIPE DRAIN	

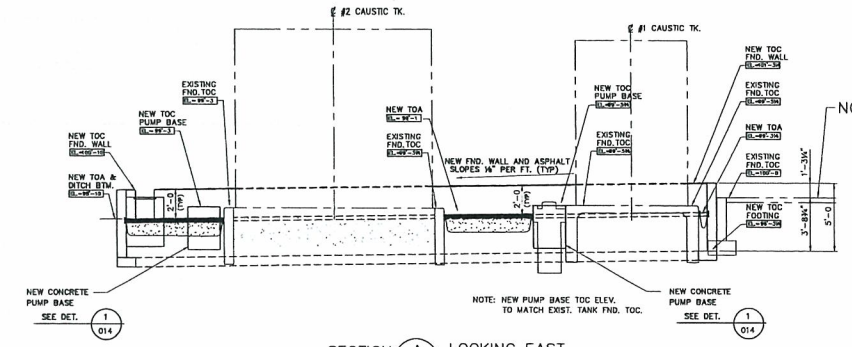
ENG. RECORD		DATE
DRAWN BY	LS	4/16/97
TRACED BY		
CHECKED BY		
APPROVED BY		
W.O. NO.		
SCALE:	NO SCALE	

Agrium

AGRIUM CPO INC.
3010 CONDA RD. SODA SPRINGS, ID 83276
EAST SULFURIC PLANT
SECONDARY CONTAINMENT
PLAN AT ABSORBING TOWERS

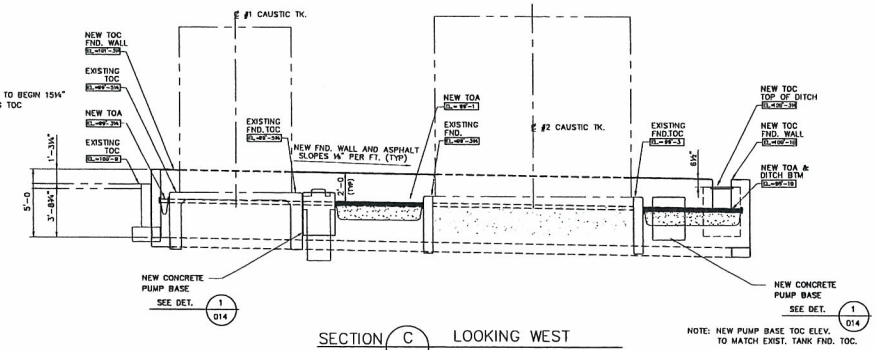
DWG NO. 03E-01-011 REV 1

NUW 004678



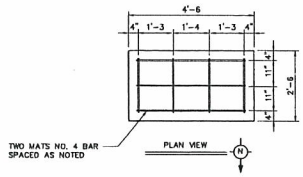
NOTE: NEW TOC WALL TO BEGIN 15¼" ABOVE EXISTING TOC

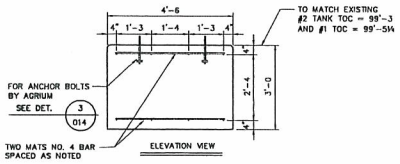
SECTION A/014 LOOKING EAST



SECTION C/014 LOOKING WEST

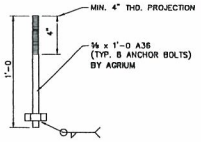
NOTE: NEW PUMP BASE TOC ELEV. TO MATCH EXIST. TANK FND. TOC.





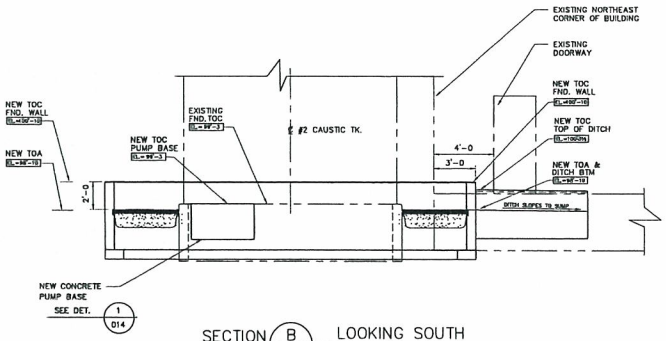
DETAIL 1/014 PUMP BASE

(2 REQUIRED)

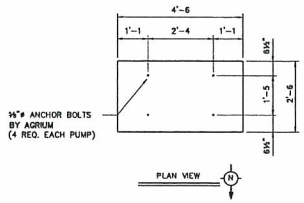


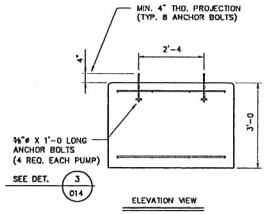
DETAIL 3/014 BASE BOLTS

(8 REQUIRED)



SECTION B/014 LOOKING SOUTH





DETAIL 2/014 BASE BOLT PATTERN

(TYP. AT EACH PUMP BASE)

LEGEND:
TOA = TOP OF ASPHALT
TOC = TOP OF CONCRETE
BTM = BOTTOM
TYP = TYPICAL
SIM = SIMILAR
O/O = OUTSIDE TO OUTSIDE
C/C = CENTER TO CENTER
FND. = FOUNDATION
HDPE = HIGH DENSITY POLYETHELENE

ALL HDPE LINER WILL BE PROVIDED BY AGRIUM.

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PRINT RECORD

NO.	DATE	TO	NO.	DATE	TO

REFERENCE DRAWINGS

03E-01-010	PLAN AT CAUSTIC TANKS

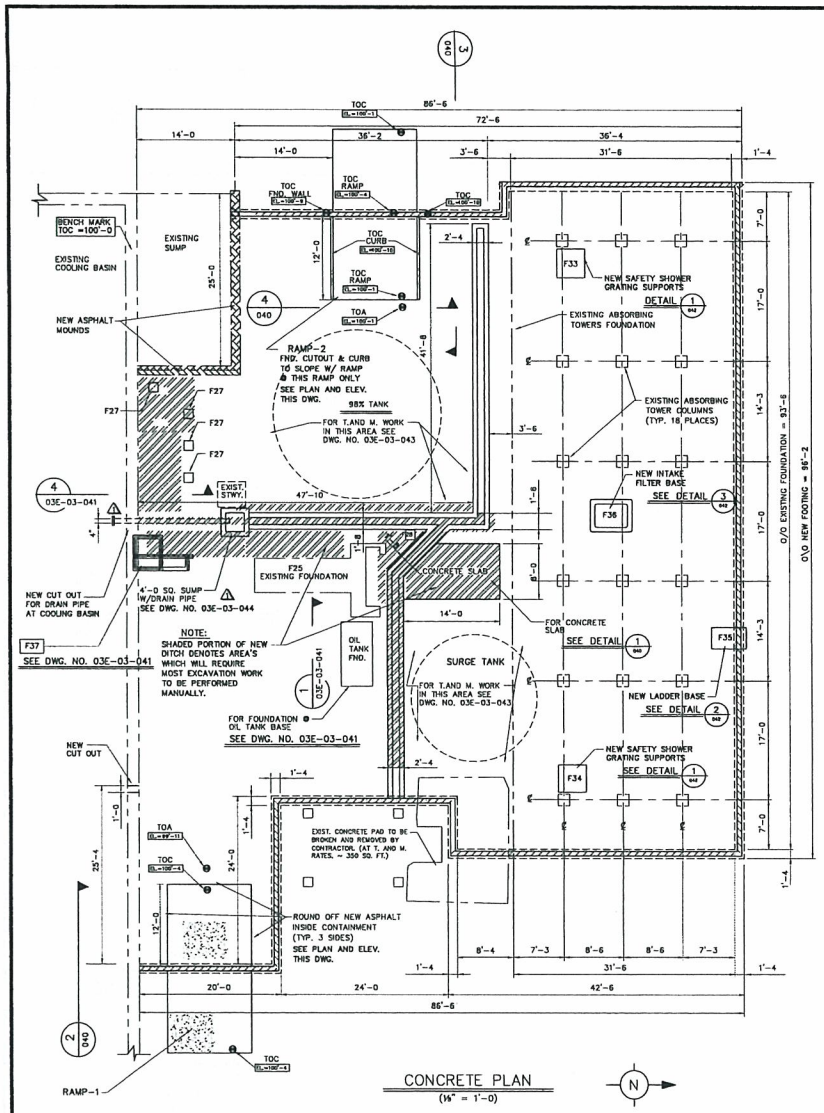
REVISIONS

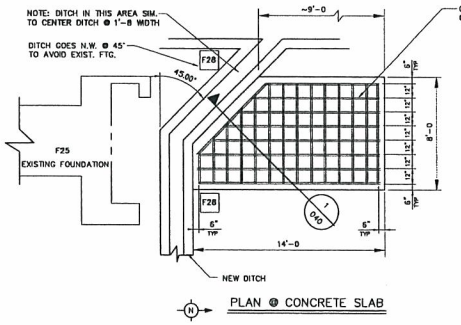
NO.	DATE	BY	DESCRIPTION	APR

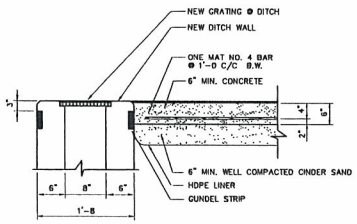
ENG. RECORD		DATE
DRAWN BY	LS	5/20/97
TRACED BY		
CHECKED BY		
APPROVED BY		
W.O. NO.		
SCALE:		

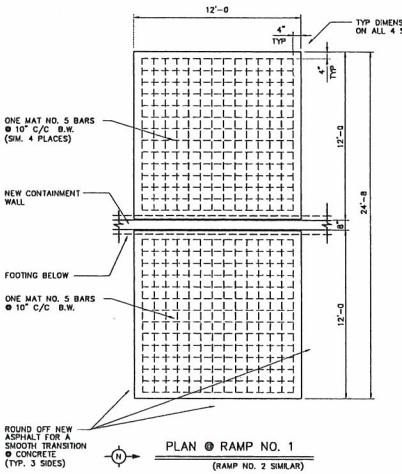
Agrium AGRIUM CPO INC.
3010 CONDA RD. SODA SPRINGS, ID 83276
EAST H2SO4 PLANT
SECONDARY CONTAINMENT
CAUSTIC TANK ELEVATIONS
DWG NO. 03E-01-014
REV

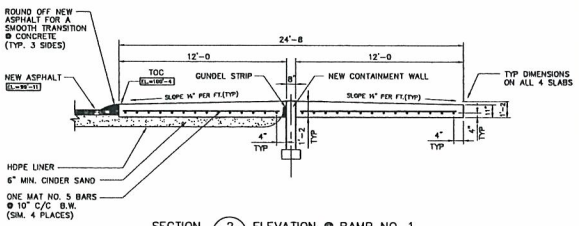
NUW 004679

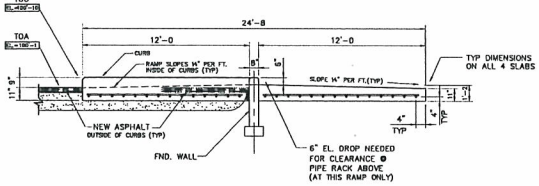


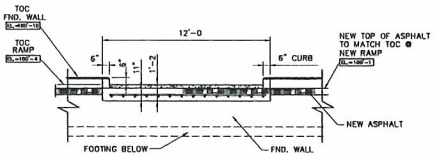












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PRINT RECORD

NO.	DATE	TO	NO.	DATE	TO

REFERENCE DRAWINGS

03E-03-039	CONCRETE DETAILS
03E-01-013	ELEVATIONS EAST AND WEST
03E-01-012	ELEVATIONS NORTH AND SOUTH
03E-01-011	PLAN AT ABSORBING TOWERS
03E-03-041	
03E-03-042	
03E-03-043	
03E-03-044	SUMP W/ PIPE DRAIN

REVISIONS

NO.	DATE	BY	DESCRIPTION	APR
1	5/16/97	D.A.	CHANGED CENTER DITCH TO SUMP W/ DRAIN PIPE	

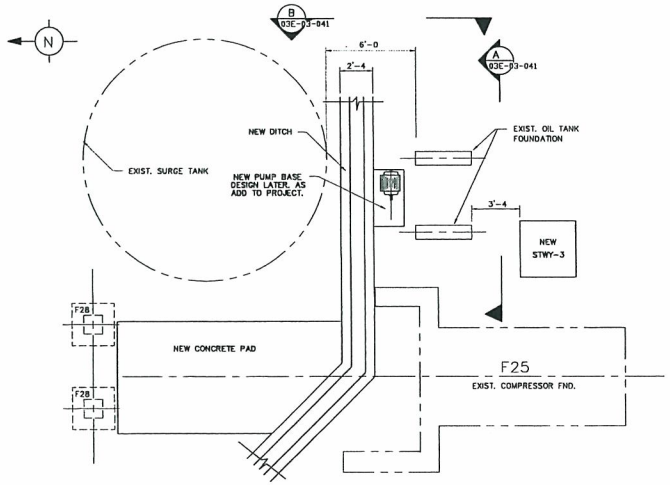
ENG. RECORD		DATE
DRAWN BY	LS	4/4/97
TRACED BY		
CHECKED BY		
APPROVED BY		
W.O. NO.		
SCALE: 1/4" = 1'-0"-U.N.O		

Agrium

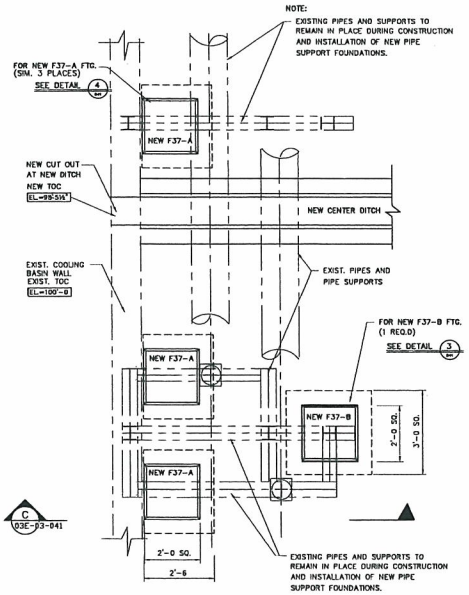
AGRIUM CPO INC.
3010 CONDA RD. SODA SPRINGS, ID 83276
EAST SULFURIC PLANT
SECONDARY CONTAINMENT
RAMPS AND DETAILS

DWG NO. 03E-03-040 REV 1

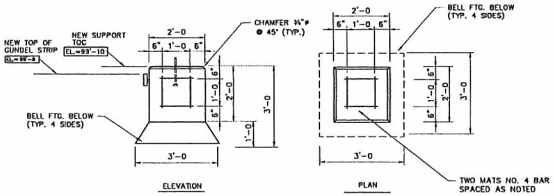
NUW 004680



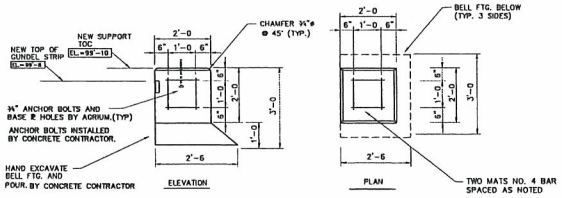
DETAIL 1 041 PLAN @ OIL TANK BASE



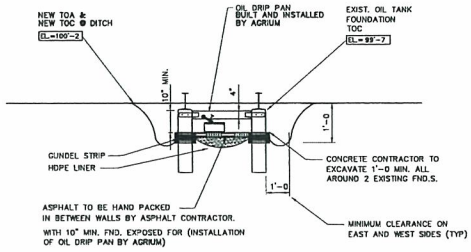
DETAIL 2 041 PLAN AT F37 SUPPORTS



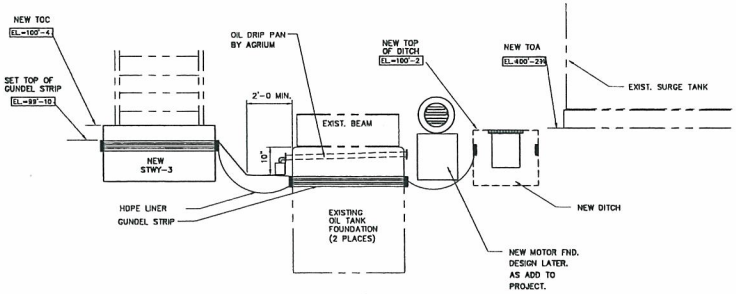
DETAIL 3 041 F37-B PIPE SUPPORT FTG.
(1 REQ.D)



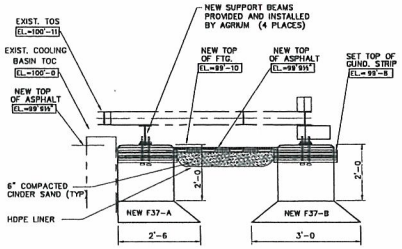
DETAIL 4 041 F37-A PIPE SUPPORT FTG.S
AT EXIST. COOLING BASIN (SIM. 3 PLACES)



SECTION A 041 OIL TANK FND.
LOOKING NORTH



SECTION B 041 OIL TANK FND.
LOOKING WEST



SECTION C 041 F37 PIPE SUPPORTS
LOOKING WEST

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PRINT RECORD

NO.	DATE	TO	NO.	DATE	TO

REFERENCE DRAWINGS

REVISIONS

NO.	DATE	BY	DESCRIPTION	APR
1				

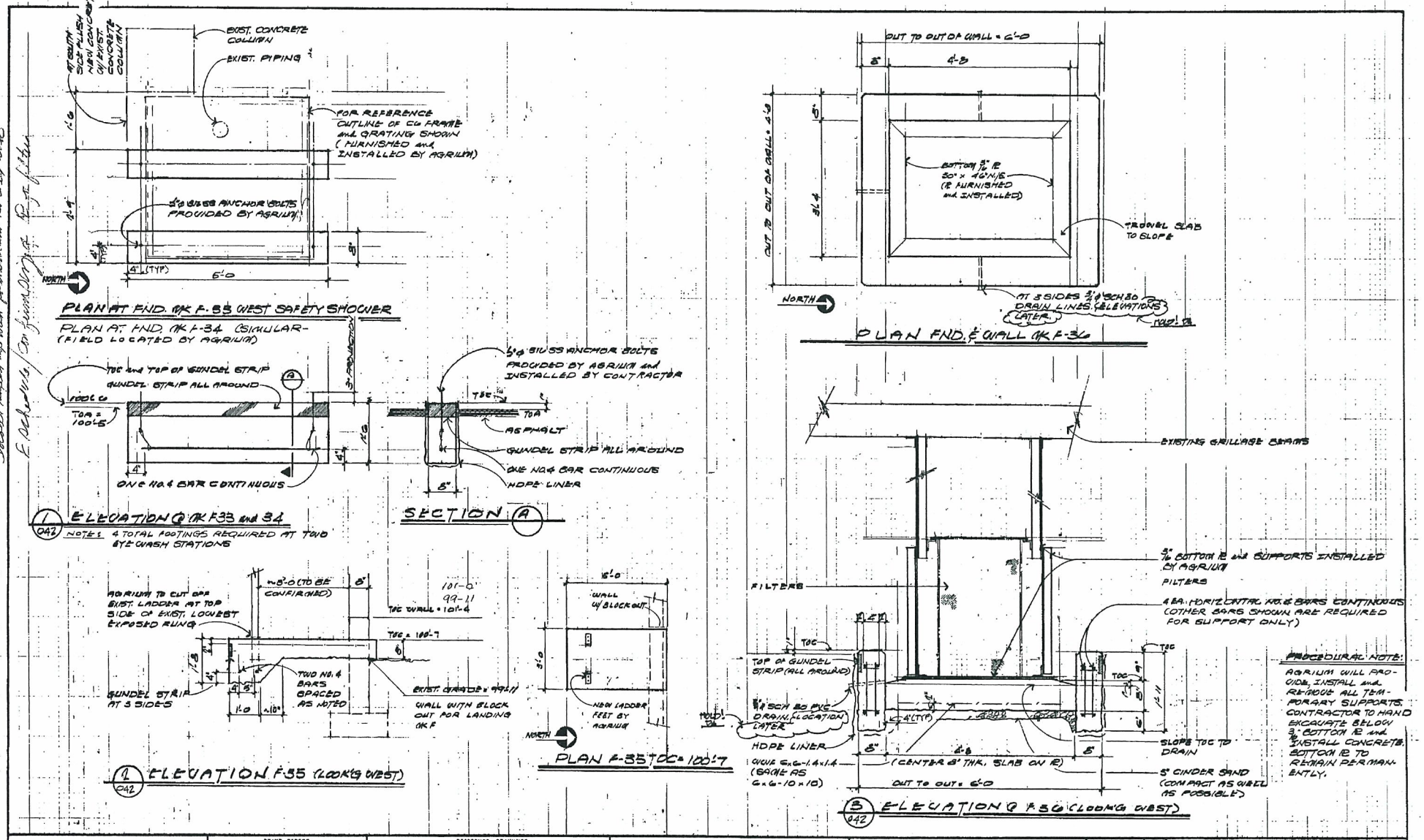
ENG. RECORD		DATE
DRAWN BY		
TRACED BY		
CHECKED BY		
APPROVED BY		
W.O. NO.		
SCALE:		

Agrium AGRIUM CPO INC.
3010 CONDA RD. SODA SPRINGS, ID 83276

DWG NO. 0 REV

NUW 004681

NUW 004682



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NO	DATE	TO	NO	DATE	TO

REFERENCE DRAWINGS

REVISIONS

NO	DATE	BY	DESCRIPTION	APR

ENG. RECORD

		DATE
DRAWN BY		
TRACED BY		
CHECKED BY		
APPROVED BY		
M & BR		
SCALE		

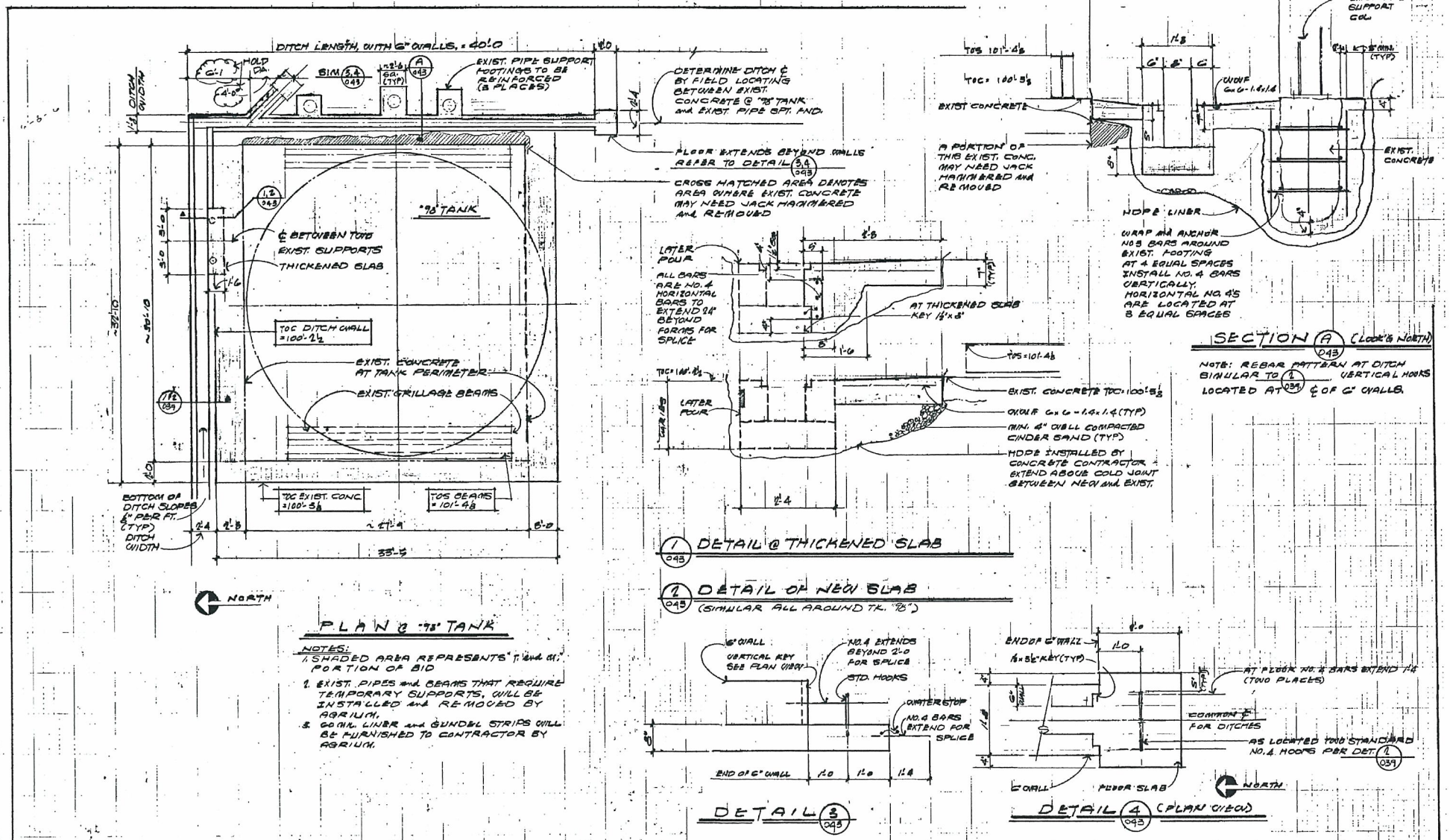
2010 CONDA ROAD SODA SPRINGS, ID 83276

EAST SULFURIC SECONDARY CONTAINMENT CONCRETE DETAILS

DWG NO. 3E-03-042

0

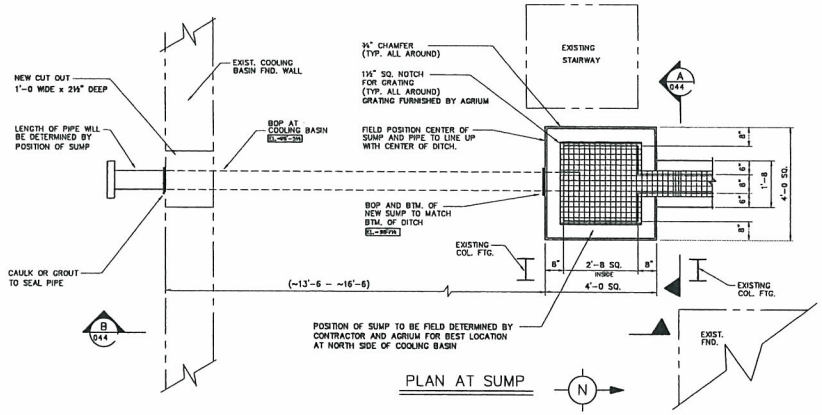
3E-03-42



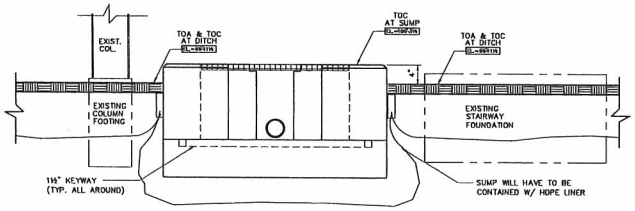
NOTICE	PRINT RECORD	REFERENCE DRAWINGS	REVISIONS	ENG. RECORD	NU-WEST INDUSTRIES INC.
THIS DRAWING IS THE PROPERTY OF NU-WEST INDUSTRIES INC. AND IS LENT TO THE BORROWER FOR RESIDENTIAL USE ONLY, AND IS SUBJECT TO RETURN UPON REQUEST AND SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED	NO. DATE TO / NO. DATE TO		NO. DATE BY DESCRIPTION APR	DRAWN BY / TRACED BY / CHECKED BY / APPROVED BY / M. R. NO / SCALE	3010 CONDA ROAD SODA SPRINGS, ID 83276 EAST SULFURIC ACID PLANT SECONDARY CONTAINMENT PLAN and DETAILS @ "98" TK. DWG NO. 08E-03-043 REV 0

043

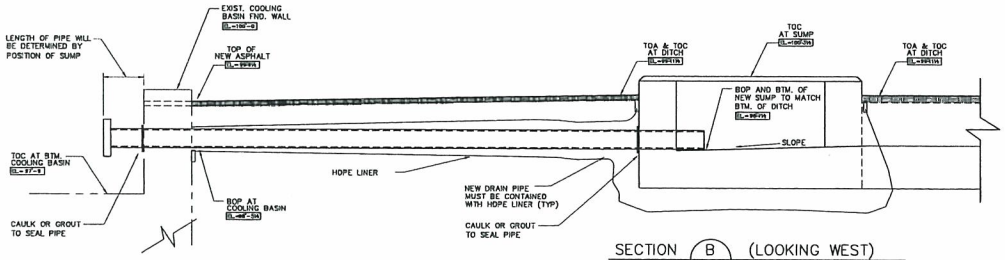
NUW 004683



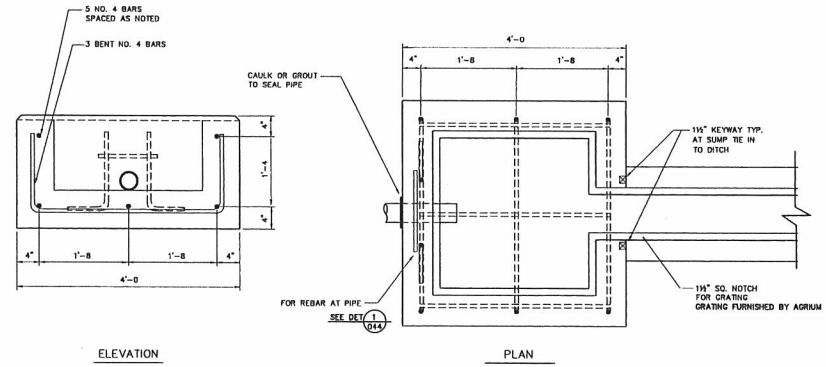
PLAN AT SUMP



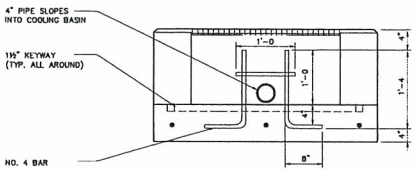
SECTION A 044 (LOOKING SOUTH)



SECTION B 044 (LOOKING WEST)



DETAIL 2 044 REBAR AT SUMP



DETAIL 1 044 REBAR AT PIPE

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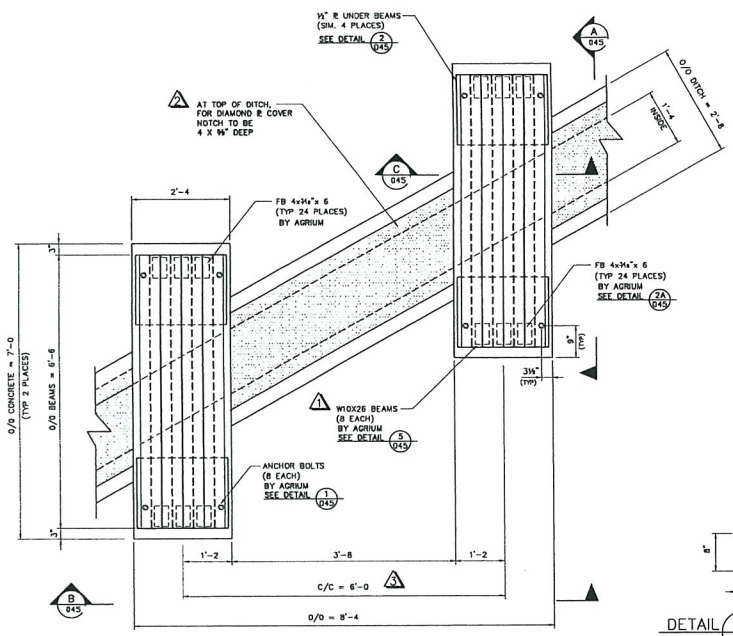
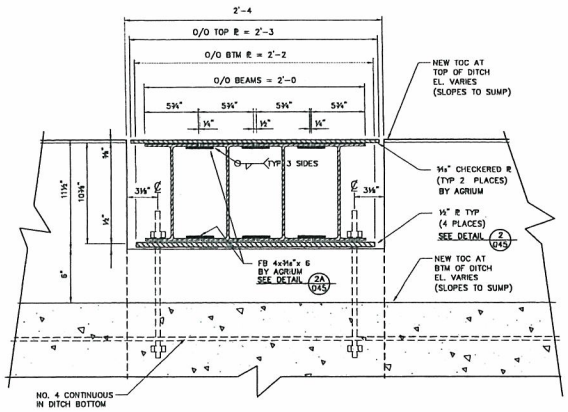
0				

ENG. RECORD		DATE
DRAWN BY	LS	4/20/97
TRACED BY		
CHECKED BY		
APPROVED BY		
W.O. NO.		
SCALE:		

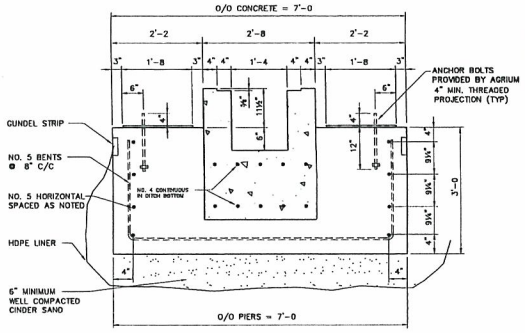
Agrium AGRIUM CPO INC.
3010 CONDA RD. SODA SPRINGS, ID 83276
EAST H2SO4 PLANT
SECONDARY CONTAINMENT
PLAN AT SUMP W/PIPE
DWG NO. 03E-03-044 REV 0



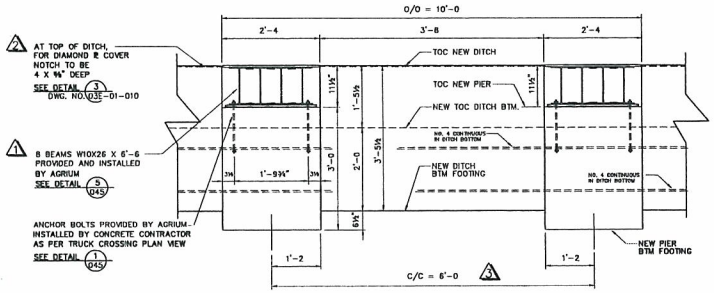
PLAN AT TRUCK CROSSING



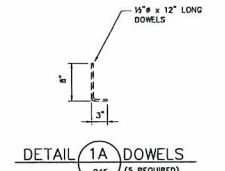
SECTION C/045 TRUCK CROSSING (SIM. 2 PLACES)



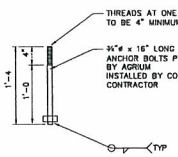
SECTION A/045 LOOKING SOUTH



SECTION B/045 LOOKING WEST

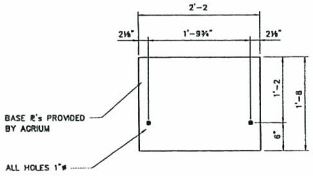


DETAIL 1A/045 DOWELS (5 REQUIRED)

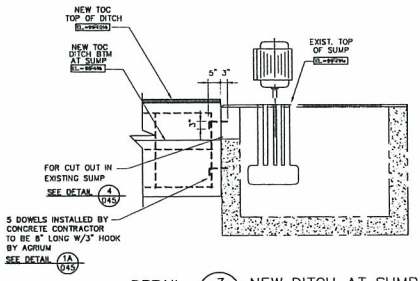


DETAIL 1/045 A36 ANCHOR BOLTS (8 REQUIRED)

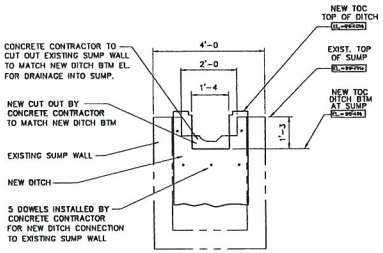
DETAIL 2A/045 FB 4x3/16"x6 (24 REQUIRED)



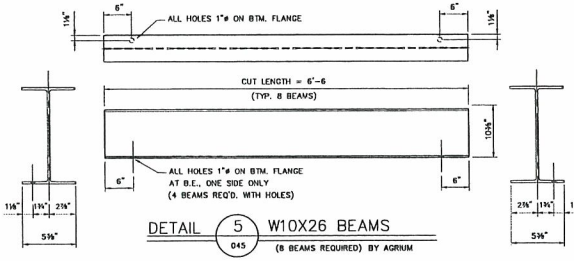
DETAIL 2/045 ½" BASE ℞'S (4 REQUIRED)



DETAIL 3/045 NEW DITCH AT SUMP



DETAIL 4/045 CUT OUT AT SUMP SOUTH SIDE OF EXIST. SUMP



DETAIL 5/045 W10X26 BEAMS (8 BEAMS REQUIRED) BY AGRIUM

LEGEND:
TOA = TOP OF ASPHALT
TOC = TOP OF CONCRETE
BTM = BOTTOM
TYP = TYPICAL
SIM = SIMILAR
B.E. = BOTH ENDS
O/O = OUTSIDE TO OUTSIDE
C/C = CENTER TO CENTER
FND. = FOUNDATION
HDPE = HIGH DENSITY POLYETHELENE
HDPE LINER UNDER DITCH WILL BE PROVIDED BY AGRIUM.

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PRINT RECORD

NO.	DATE	TO	NO.	DATE	TO

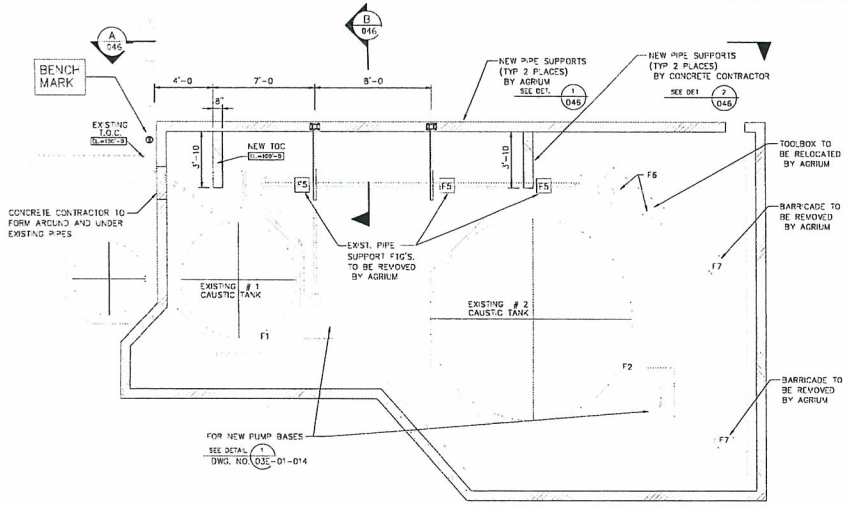
REFERENCE DRAWINGS

REVISIONS

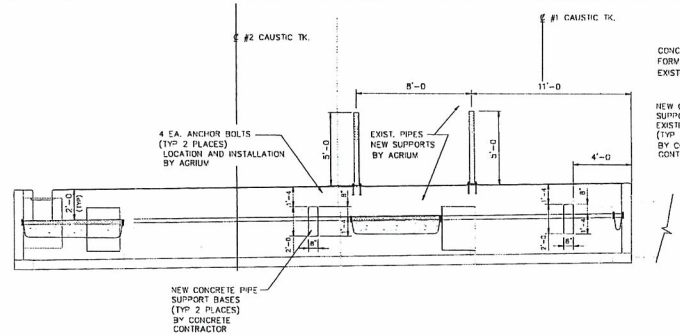
NO.	DATE	BY	DESCRIPTION	APR
1	5/1/98	LS	ADDED 1 BEAM TO EACH SIDE OF TRUCK CROSSING 8 BEAMS TOTAL INSTEAD OF 6.	
2	5/1/98	LS	CONCRETE NOTCH IN TOP OF DITCH AT DIAMOND ℞ COVER TO BE 4x3/4" DEEP INSTEAD OF 1½" SQ. NOTCH	
3	5/29/98	LS	CHANGED C/C TO 6'-0. DIM. WAS 7'-6	

ENG. RECORD		DATE
DRAWN BY	LS	5/1/98
TRACED BY		
CHECKED BY		
APPROVED BY		
W.O. NO.		
SCALE:	NONE	

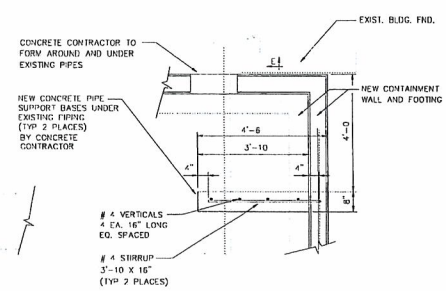
Agrium
AGRIUM CPO INC.
3010 CONDA RD. SODA SPRINGS, ID 83276
EAST H2SO4 PLANT
SECONDARY CONTAINMENT
DETAILS AT TRUCK CROSSING
DWG NO. 03E-03-045
REV 2



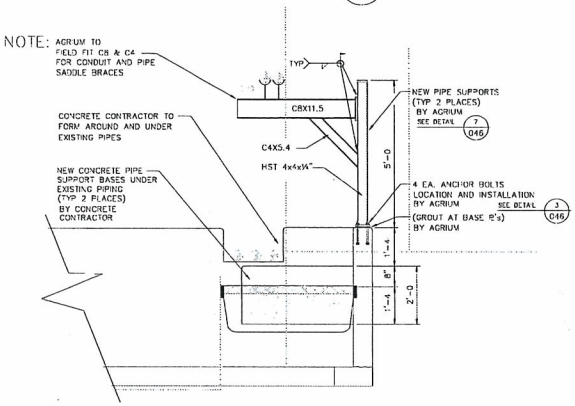
PLAN AT CONTAINMENT



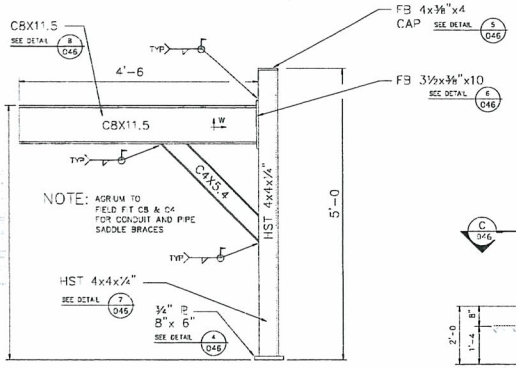
SECTION A 046 LOOKING EAST



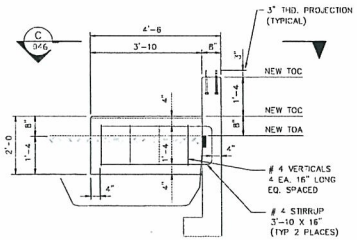
SECTION C 046 SUPPORT BASE



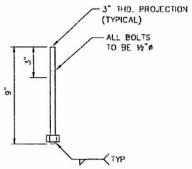
SECTION B 046 LOOKING SOUTH



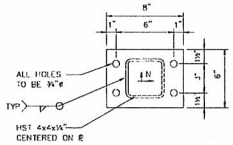
DETAIL 1 046 PIPE SUPPORT (TYP. 2 PLACES) BY AGRIUV



DETAIL 2 046 SUPPORT BASE (2 REQUIRED)

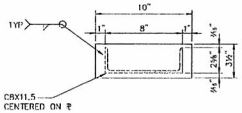


DETAIL 3 046 ½"ø ANCHOR BOLTS (8 REQUIRED) BY AGRIUM



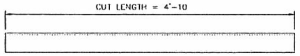
DETAIL 4 046 ¾" BASE PL'S (2 REQUIRED) BY AGRIUM

DETAIL 5 046 FB 4x⅜"x4 CAPS (2 REQUIRED) BY AGRIUM

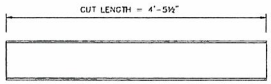


DETAIL 6 046 FB 3½x⅜"x10 END PL

(2 REQUIRED) BY AGRIUM



DETAIL 7 046 HST 4x4x¼" (2 REQUIRED) BY AGRIUM



DETAIL 8 046 C8X11.5 (2 REQUIRED) BY AGRIUM

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REFERENCE DRAWINGS

09-01-010	PLAN AT CAUSTIC TANKS

REVISIONS

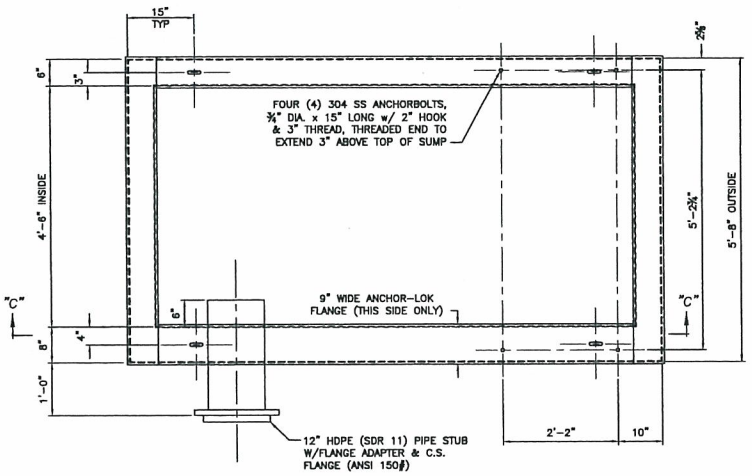
NO.	DATE	BY	DESCRIPTION	ATE

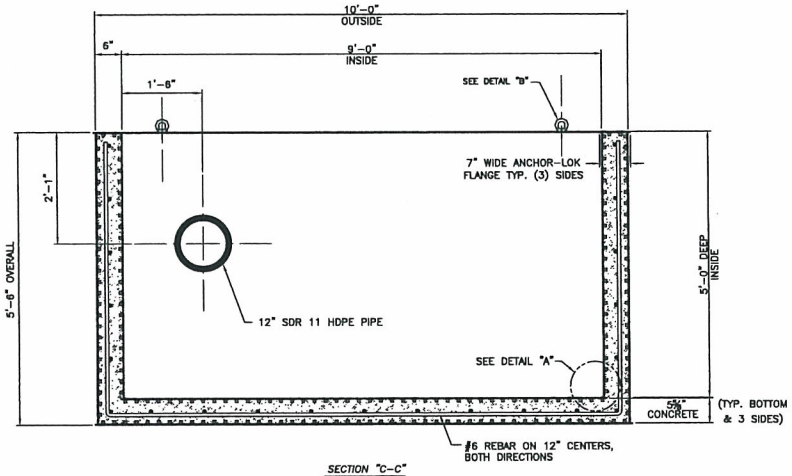
ENG RECORD		DATE
DRAWN BY	LS	5/6/98
TRACED BY		
CHECKED BY		
APPROVED BY		
W.O. NO.		
SCALE	NONE	

Agrium

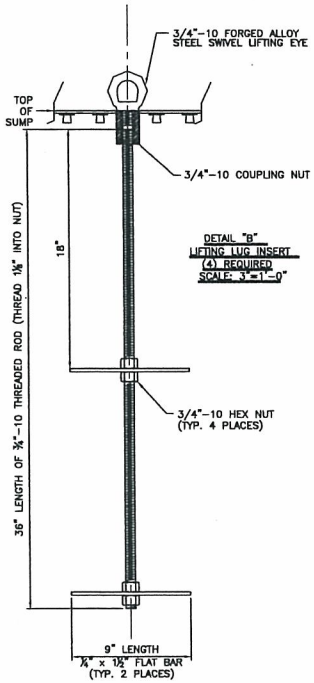
AGRIUM CPO INC.
3010 CONDA RD. SODA SPRINGS, ID 83276
EAST H2SO4 PLANT
SECONDARY CONTAINMENT
CAUSTIC PIPE SUPPORT DETAILS

DWG NO. 03E-03-046 REV 0

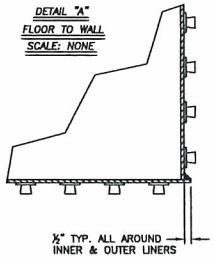




SECTION "C-C"



DETAIL "B"
LIFTING LUG INSERT
(4) REQUIRED
SCALE: 3"=1'-0"



DETAIL "A"
FLOOR TO WALL
SCALE: NONE

MATERIAL:

3/16" (5mm) HDPE ANCHOR-LOK

NOTES:

1. CONCRETE TO BE REINFORCED WITH #6 REBAR ON 12" CENTERS, HORIZONTALLY & VERTICALLY, BOTTOM & SIDES

ESTIMATED WEIGHT: 16,000 POUNDS

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The details are offered as a guide for consideration to assist Engineers with their design, however, no guarantee of results is made or implied and no liability in connection with this information is to be assumed.

	DRAWING APPROVAL	DATE
PROJECT MANAGER	Rodney Campbell	4/18/07
ENGINEERING	Rodney Campbell	1/9/07
OPERATIONS	Tim Schwarz	1-7-07
MAINTENANCE		
SUPERVISION		
RISK MANAGEMENT		
DWG. REQUESTED BY		

TOLERANCES (EXCEPT AS NOTED)
DECIMAL ±.125"
FRACTIONAL ± 1/8"
ANGULAR ± 1/2°

atlas
ATLAS MINERALS & CHEMICALS, INC.
FARMINGTON ROAD, MERTZTOWN, PA 19539
TELEPHONE (610) 682-7171

HDPE PRECAST ANCHOR-LOK SUMP
4'-6" X 9'-0" X 5'-0" DEEP INSIDE
5'-8" X 10'-0" X 5'-6" HIGH OUTSIDE
NU-WEST INDUSTRIES, INC.
SODA SPRINGS, ID 83276

SCALE 1"=1'-0" & NOTED
JOB NO. 7752
DRAWN BY G.A.A. DATE 4-19-07
BY APPROVED DATE
DRAWING NO. D07-2-5108

Drawing No.	Description
03E-01-018	EXISTING SUMP REPLACEMENT (12-05-06)

Reference Drawing

No.	Date	Revision	Dwn.	Chk'd.	App'd.

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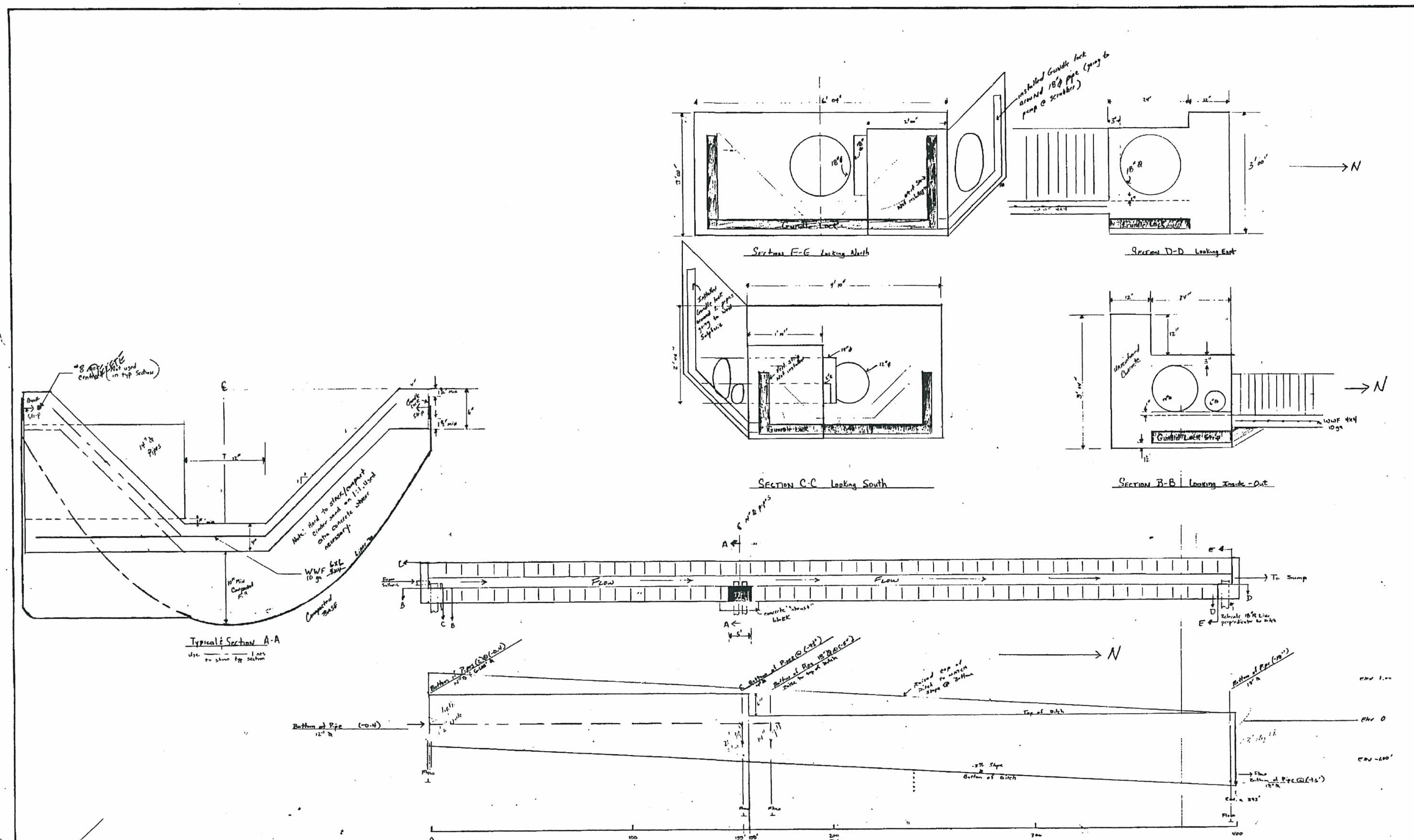
Agrium
CONDA PHOSPHATE OPERATION
3010 CONDA ROAD
SODA SPRINGS, ID 83276

EAST SULFURIC
2007 PROCESS SEWER SUMP REPLACEMENT
PLAN & DETAILS

Drawn By: STAFF	4/18/07	Drawing No.: 03E-03-052	Rev. 0
Approved: RCC	4/18/07		
Scale:			
Project No.:		Sheet 1 of 1	

AR 06-065

NUW 004887



PRINT RECORD					
NO	DATE	TO	NO	DATE	TO

REFERENCE DRAWINGS

REVISIONS				
NO	DATE	BY	DESCRIPTION	APR
1		JL	Updated to show Gundle locks instead of Stanless. Vaulted old copy	
2		GL	Field changes noted in Red	

ENG. RECORD		DATE
DRAWN BY	G.L.	
TRACED BY		
CHECKED BY		
APPROVED BY		
W O NO		
SCALE		

NU-WEST INDUSTRIES INC.
3010 CONDA ROAD SODA SPRINGS, ID 83276

Ditch - East Side Shipping Bldg.

DWG NO. 05-03-19

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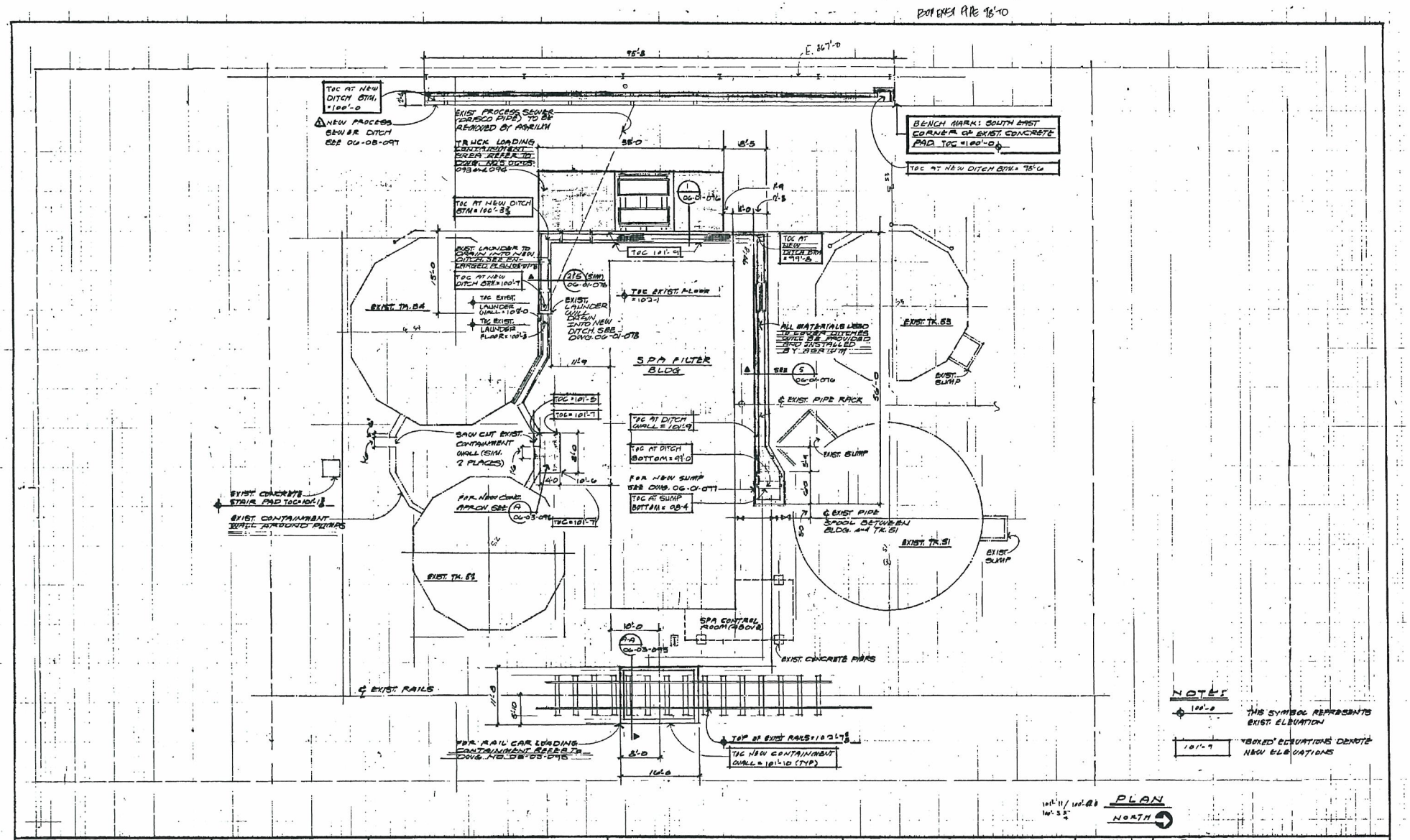

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NO	DATE	TO	NO	DATE	TO

REFERENCE DRAWINGS

PI 06-1-39
6-3-056
4-1-05

REVISIONS

NO	DATE	BY	DESCRIPTION	APR
1	9-11-96		ISSUED FOR CONCRETE BID	
2	9-21-96		ADDED PROCESS SEWER DITCH WALL RELEASED FOR BID	

ENG. RECORD

	DATE
DRAWN BY	9-11-96
TRACED BY	
CHECKED BY	
APPROVED BY	
W.O. NO.	
SCALE	1/4" = 1'-0

NU-WEST INDUSTRIES INC.
3010 CONDA ROAD SODA SPRINGS, ID 83276

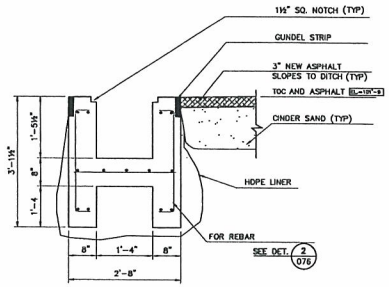
SITE PLAN - SECONDARY CONTAINMENT @ SPA AREA

DWG NO. 06-01-068

1 REV

NUW 004689

NUW 004690

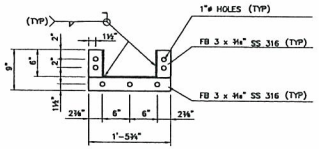


NOTE: BELOW DITCH BOTTOM FORMS ARE NOT REQUIRED.

ELEVATION
DITCH AT N.W. & S.W. OF SPA BUILDING

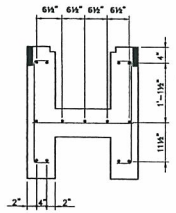
(SCALE 3/4" = 1'-0) FOR LOCATION OF CRANE TRAFFIC SEE DWG. NO. 06-01-068

DETAIL 5/076

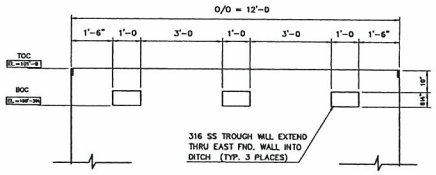


FLANGE DETAIL

(3 REQ. BY AGRIUM)

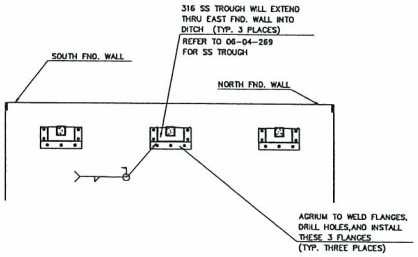


DETAIL 2/076 REBAR AT DITCH

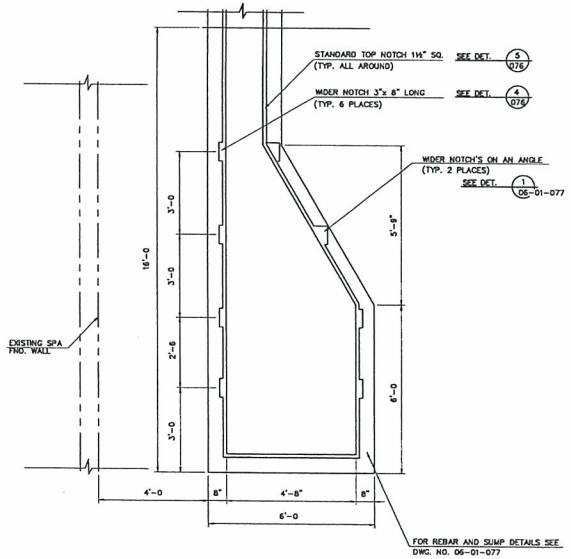


EAST FND. BLOCK OUTS

EAST SIDE OF TRUCK CONTAINMENT
LOOKING WEST

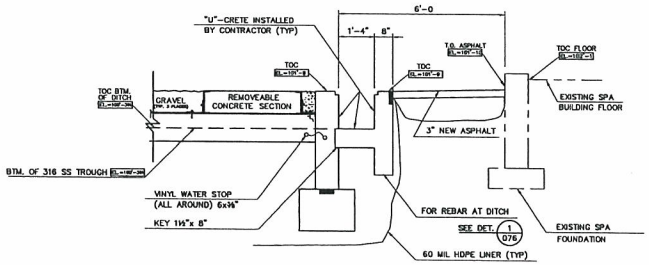


DETAIL 3/076 (LOOKING WEST AT EAST TRUCK CONTAINMENT FND. WALL)



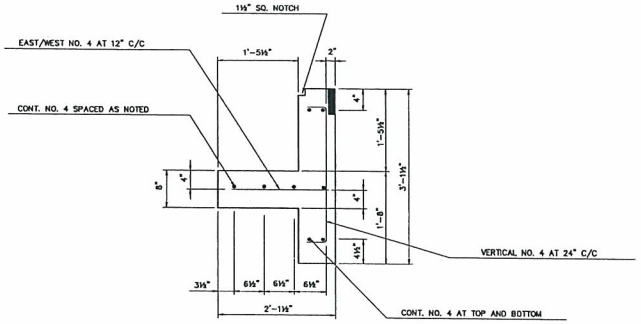
PLAN AT SUMP

FOR LOCATION SEE DWG. NO. 06-01-068



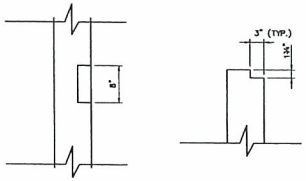
ELEVATION AT TRUCK CONTAINMENT

(LOOKING NORTH)



SECTION AT DITCH EAST OF TRUCK CONTAINMENT

DETAIL 1/076 (SCALE 1" = 1'-0) (LOOKING NORTH)



DETAIL 4/076 WIDER NOTCH (BLOCKOUT)

(SEE PLAN VIEW FOR LOCATIONS)

LEGEND:

BTM = BOTTOM
FND. = FOUNDATION
TO = TOP OF
TOC = TOP OF CONCRETE
TYP = TYPICAL
BOC = BOTTOM OF CONCRETE

NOTICE
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PRINT RECORD

NO.	DATE	TO	NO.	DATE	TO

REFERENCE DRAWINGS

06-01-068
06-03-093
06-03-094
06-01-077
06-01-078

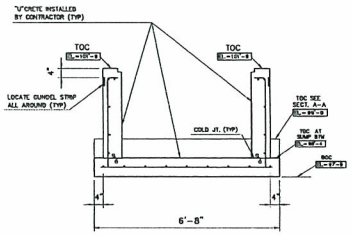
REVISIONS

NO.	DATE	BY	DESCRIPTION	APR.

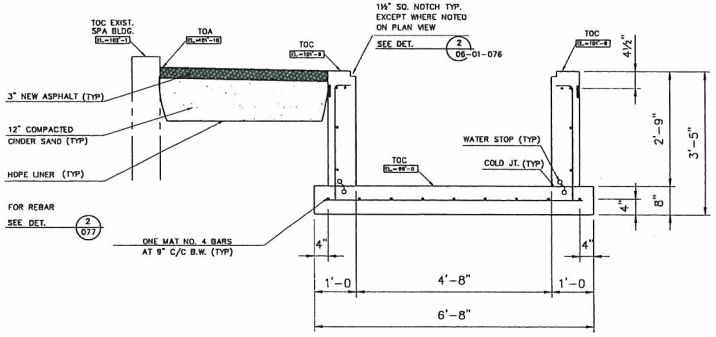
ENG. RECORD		DATE
DRAWN BY	LS	9/5/96
TRACED BY		
CHECKED BY		
APPROVED BY		
N. G. INS.		
SCALE 1/2" = 1'-0 U.N.O.		

NU-WEST INDUSTRIES INC.
3010 CONDA ROAD SODA SPRINGS, ID 83276
PHOS ACID / SPA AREA
ELEVATION FOR SECONDARY CONTAINMENT DITCH AND DETAILS

DWG NO. 06-01-076 REV 0

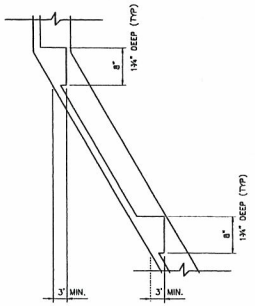


SECTION C-C 077 AT EAST END SUMP WALL



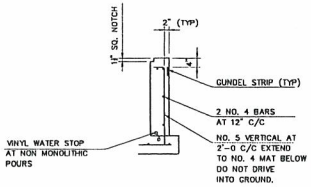
SECTION B-B 077 WEST SIDE OF SUMP HOLE

(LOOKING WEST) (SCALE 1" = 1'-0)

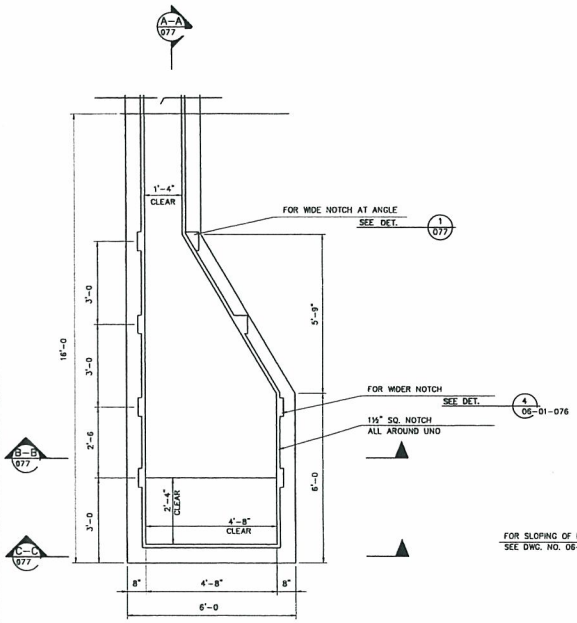


DETAIL 1 077 WIDER NOTCH DETAIL

(SCALE 1" = 1'-0)

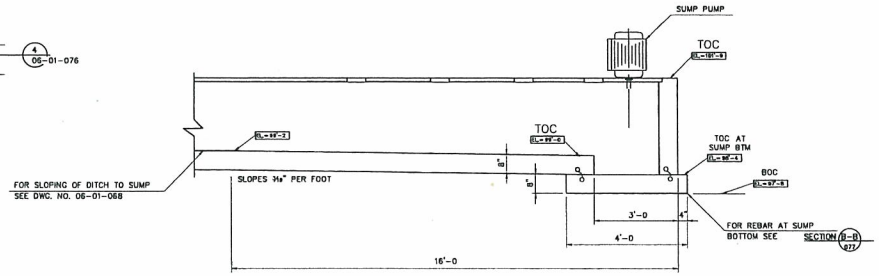


DETAIL 2 077 AT FND. WALL



PLAN AT SUMP

FOR LOCATION SEE DWG. NO. 06-01-068



SECTION A-A 077 (LOOKING NORTH)

LEGEND:

BTM = BOTTOM
FND. = FOUNDATION
TO = TOP OF
TOC = TOP OF CONCRETE
TYP = TYPICAL
TOA = TOP OF ASPHALT
JT. = JOINT
BOC = BOTTOM OF CONCRETE
C/C = CENTER TO CENTER
UNO = UNLESS NOTED OTHERWISE

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PRINT RECORD

NO.	DATE	TO	NO.	DATE	TO

REFERENCE DRAWINGS

06-01-076
06-01-068

REVISIONS

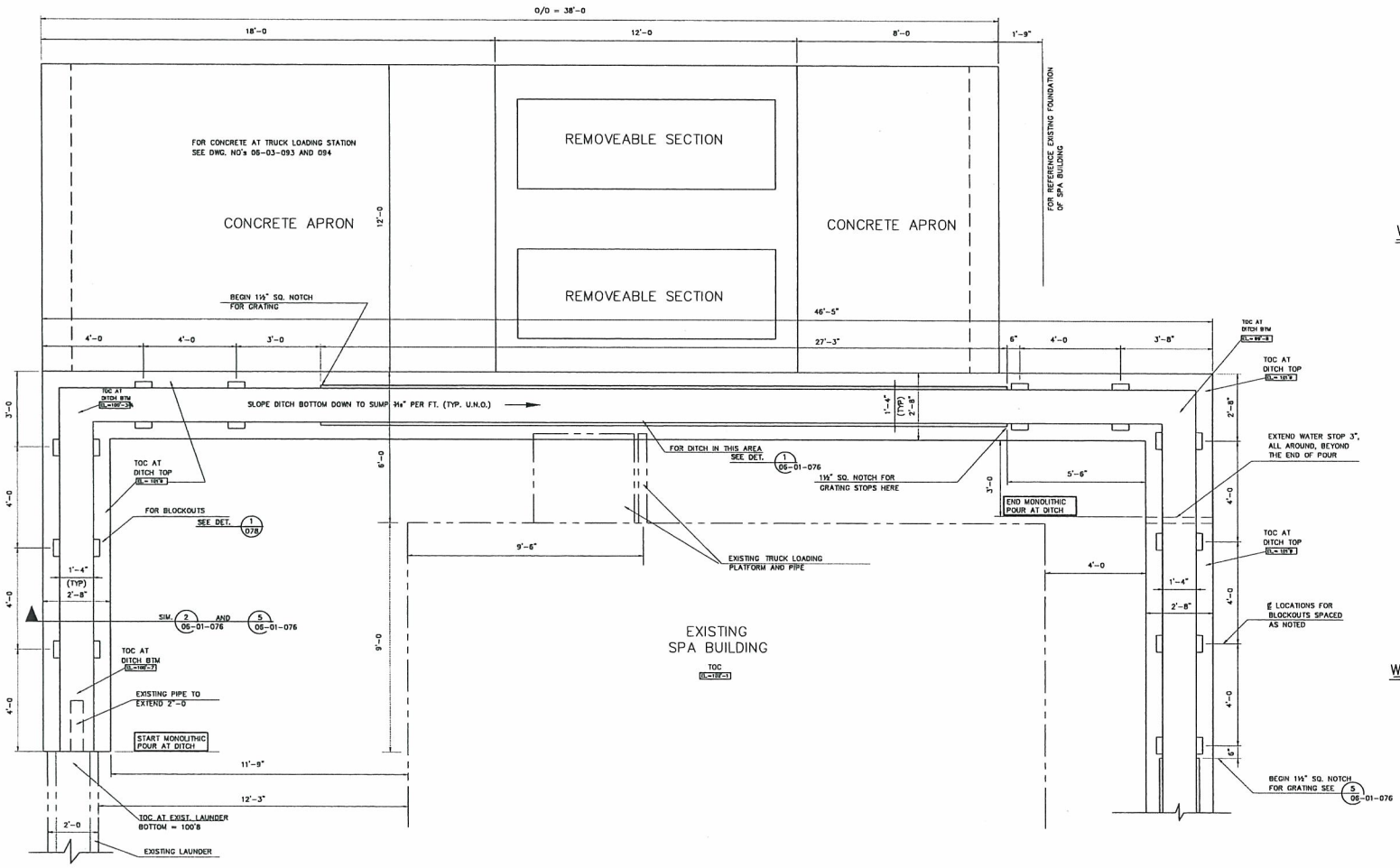
NO.	DATE	BY	DESCRIPTION	APR

ENG. RECORD		DATE
DRAWN BY	LS	9/9/96
TRACED BY		
CHECKED BY		
APPROVED BY		
W. O. NO.		
SCALE 1/2" = 1'-0 U.N.O.		

NU-WEST INDUSTRIES INC.
3010 CONDA ROAD SODA SPRINGS, ID 83276

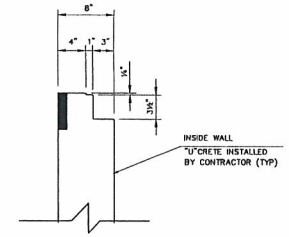
PHOS ACID/SPA AREA
SECONDARY CONTAINMENT
SUMP AND DETAILS

DWG NO. 06-01-077 REV 0



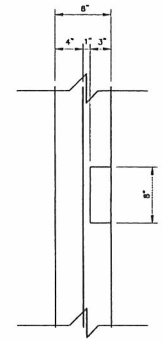
PLAN

1/2" = 1'-0



WALL DETAIL 1 078 ELEVATION

(SCALE 3" = 1'-0)



WALL DETAIL 2 078 PLAN VIEW

(SCALE 3" = 1'-0)

NOTES:

1. WORK THIS DRAWING WITH SITE PLAN 06-01-068.
2. GUNDEL STRIP & LINER ARE REQ. AT ALL NEW CONCRETE AND AT ALL EXISTING CONCRETE.
3. ALL CONCRETE DITCH'S TO BE LINED ON INSIDE WITH "U"CRETE BY CONTRACTOR.

LEGEND:

BTM = BOTTOM
FND. = FOUNDATION
TO = TOP OF
TOC = TOP OF CONCRETE
TYP = TYPICAL
U.N.O. = UNLESS NOTED OTHERWISE

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PRINT RECORD

NO.	DATE	TO	NO.	DATE	TO

REFERENCE DRAWINGS

06-01-068
06-01-076
06-01-077
06-03-093
06-03-094

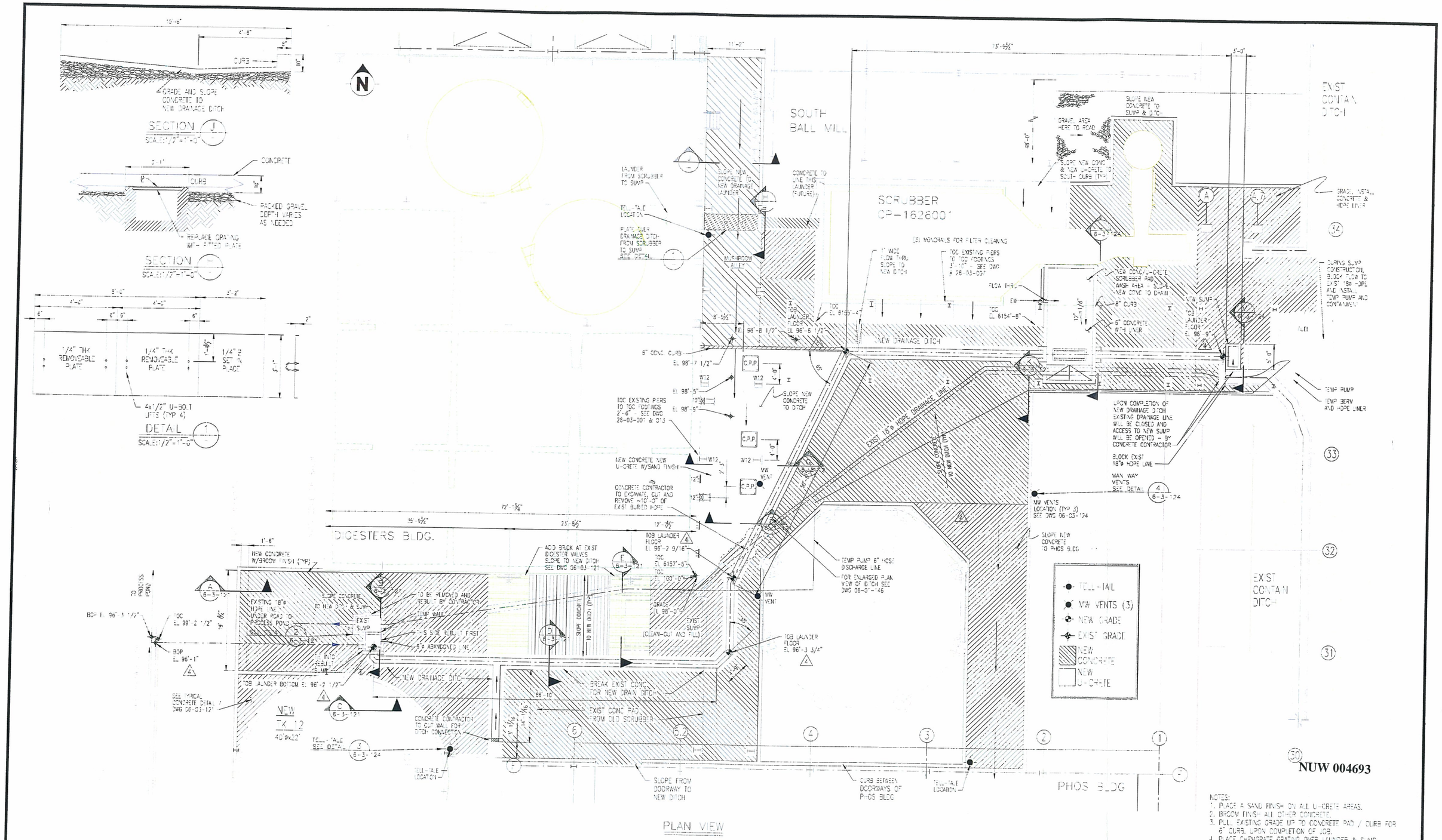
REVISIONS

NO.	DATE	BY	DESCRIPTION	APR

ENG. RECORD		DATE
DRAWN BY	LS	9/10/96
TRACED BY		
CHECKED BY		
APPROVED BY		
W. O. NO.		
SCALE 1/2" = 1'-0 U.N.O.		

NU-WEST INDUSTRIES INC.
3010 CONDA ROAD SODA SPRINGS, ID 83276
PHOS ACID/SPA AREA
SECONDARY CONTAINMENT
SUMP & DITCH, PLAN & DETAILS

DWG NO. 06-01-078 REV 0



NUW 004693

NOTES:
1. PLACE A SAND FINISH ON ALL U-CRETE AREAS.
2. BROOM FINISH ALL OTHER CONCRETE.
3. PULL EXISTING GRADE UP TO CONCRETE PAD / CURB FOR 6" CURB, UPON COMPLETION OF JOB.
4. PLACE CHEMGRATE GRATING OVER LAUNDER & SUMP AROUND TANK 12 AND AREAS OF HEAVY TRAFIC.

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PRINT RECORD

NO.	DATE	TO	NO.	DATE	TO
2	06-28-02	FOR BID			

REFERENCE DRAWINGS

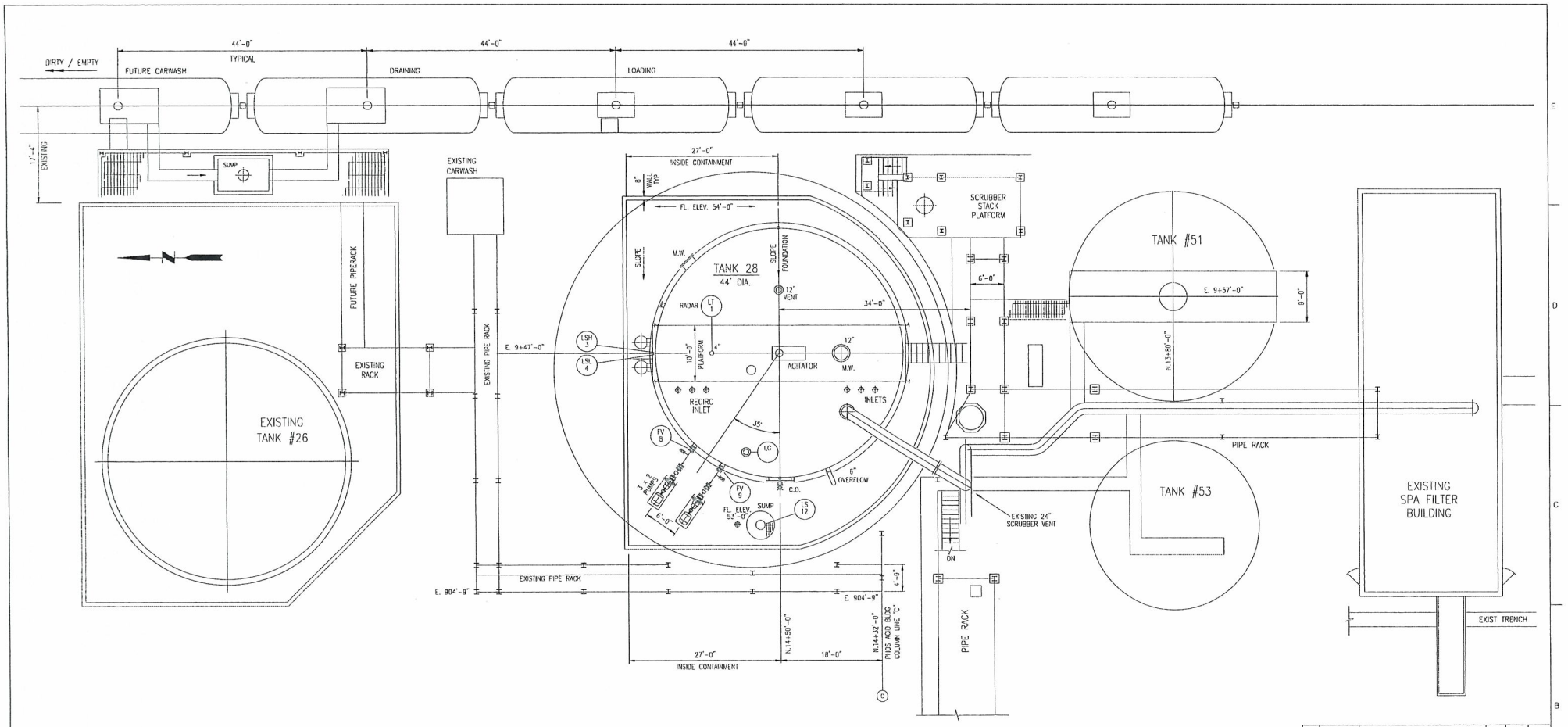
26-03-001	Underground Services, Sewer & 18"ø Drain Line Relocation
26-03-001	Digester Building Foundations Plan & Details
26-03-013	Digester Hipercat Foundations Layout and Details
26-03-006	Phos Acid Scrubber Equipment Foundations Plan
26-03-007	Phos Acid Scrubber Equipment Foundation Seat & Det - Sh#1

REVISIONS

NO.	DATE	BY	DESCRIPTION	APR
E	03-14-02	K-A	FOR REVIEW	
0	03-26-02	K-A	FOR PRESENTATION	
1	03-27-02	K-A	FOR PRESENTATION AND REVIEW 2	
2	06-28-02	K-A	FOR REVIEW 3	
3	09-11-02	K-A	FOR BID ONLY (NOT for Construction)	
4	10-11-02	JSS	ELEVATION REVISIONS & RELOCATED PUMP PADS	

ENG. RECORD		DATE
DRAWN BY	K-A	02/13/02
CHECKED BY		
APPROVED BY		
A.D. NO.	2463225	
SCALE	1/8"=1'-0"	

Agrium AGRIUM CPO INC.
3010 CONDA RD. SODA SPRINGS, ID 83276
PHOS ACID - DIGESTER BLDG
NEW EAST-WEST DRAINAGE DITCH
GENERAL ARRANGEMENT & LOCATION
DWG NO. 06-01-137



LOCATION PLAN

1/8" = 1'-0"

No.	Date	Revision	Dwn.	Chk'd.	App'd.
2	3/29/04	ADDED MISC. DIMENSIONS	EM		
1	3/22/04	MOVE TANK 12" NORTH AND EAST	EM		
0	3/15/04	ISSUED FOR CONSTRUCTION	VRC		

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Agrium
CONDA PHOSPHATE OPERATION
3010 CONDA ROAD
SODA SPRINGS, ID 83276

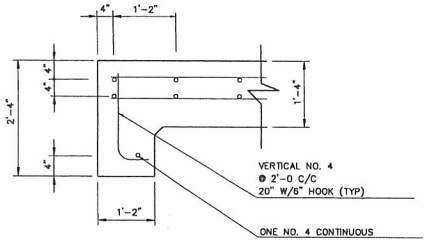
PHOS ACID
44'ø FILTER FEED TANK 28
GENERAL ARRANGEMENT

Drawn By: PROTEC	9/7/03	Drawing No.: 06-01-153	Rev. 2
Approved:			
Scale: 1/8" = 1'-0"			
Project No.:		Sheet 1 of 2	

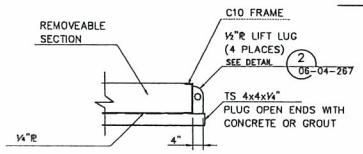
3/29/04

REVISION 2

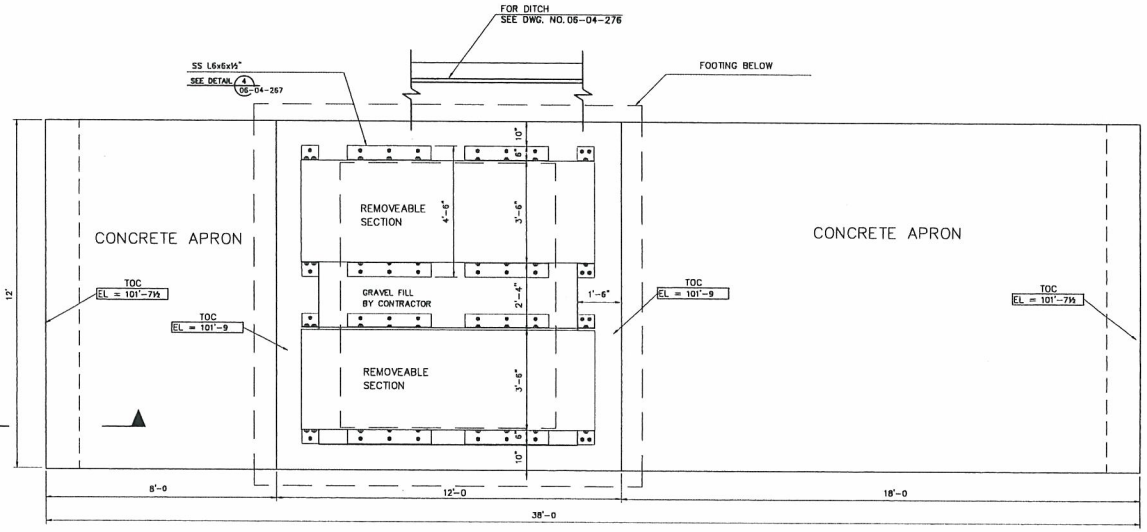
DESTROY PREVIOUSLY DATED PRINTS



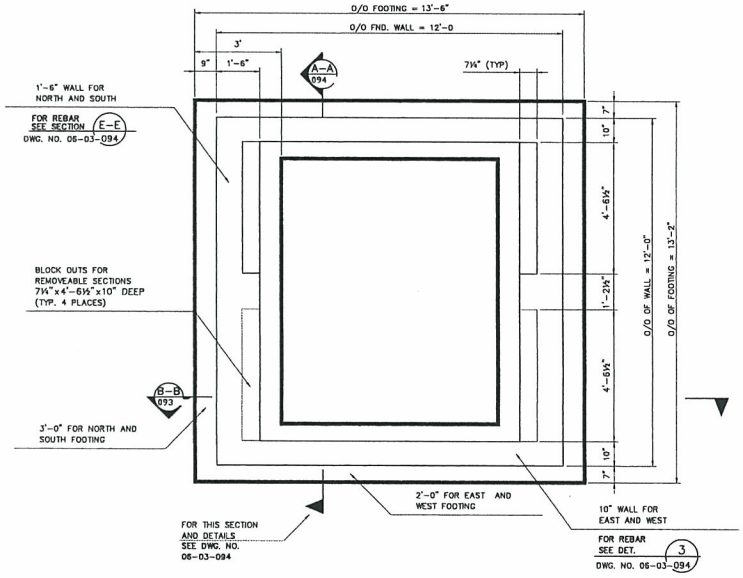
D-D 093 THICKENED EDGE DETAIL
(TYP TWO PLACES) SCALE 3/4" = 1'-0



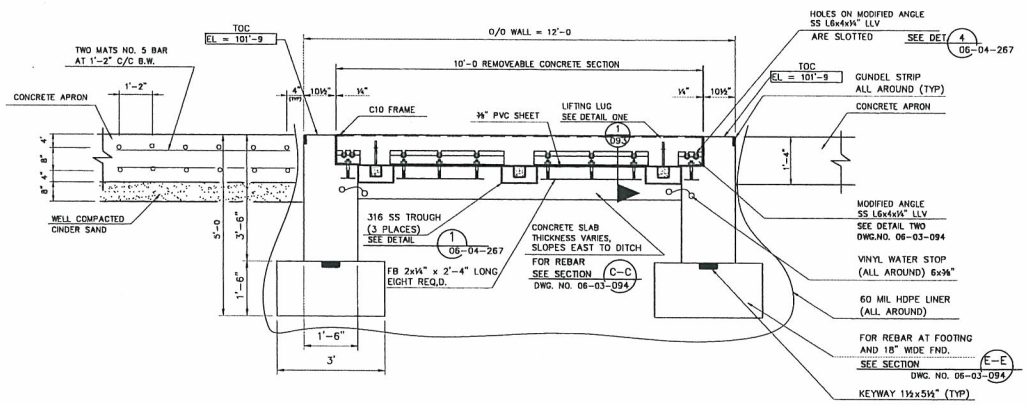
1 093 DETAIL ONE
SCALE 3/4" = 1'-0



N SPA TRUCK LOADING CONTAINMENT PLAN



N CONCRETE PLAN AT FOOTING



B-B 093 SECTION B-B (LOOKING WEST)
SCALE 3/4" = 1'-0

NOTES: LEGEND
B.W. = BOTH WAYS
C/C = CENTER TO CENTER
O/O = OUTSIDE TO OUTSIDE
FND. = FOUNDATION
TYP. = TYPICAL

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NO.	DATE	TO	NO.	DATE	TO

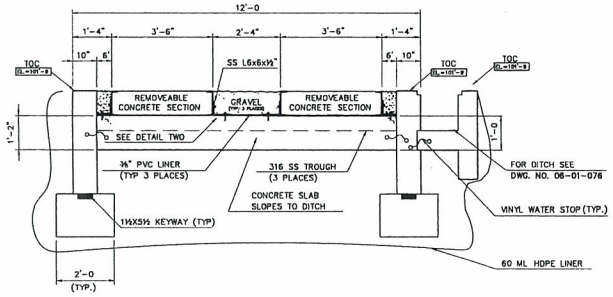
REFERENCE DRAWINGS
06-03-094
06-04-267
06-04-276
06-01-078

REVISIONS			
NO.	DATE	BY	DESCRIPTION

ENG. RECORD		DATE
DRAWN BY	LS	7/2/96
TRACED BY		
CHECKED BY		
APPROVED BY		
W. O. NO.		
SCALE 1/2" = 1'-0 U.N.O.		

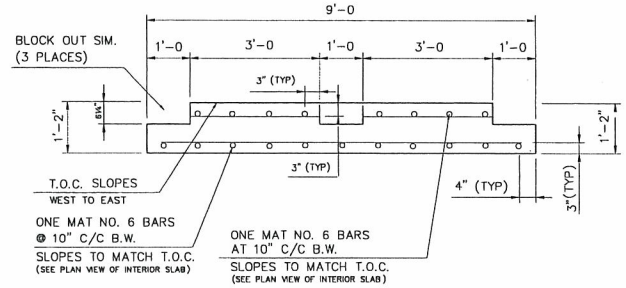
NU-WEST INDUSTRIES INC.
3010 CONDA ROAD SODA SPRINGS, ID 83276
SPA BUILDING SECONDARY CONTAINMENT
SPA TRUCK LOADING STATION
PLANS AND DETAILS
DWG NO. 06-03-093
REV 0

NUW 004695

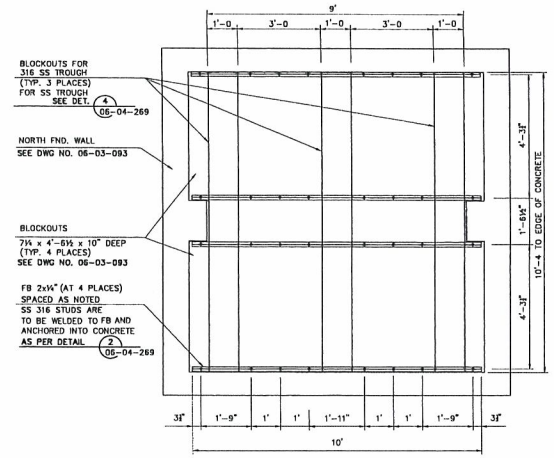


A–A 094 SECTION A–A (LOOKING NORTH)

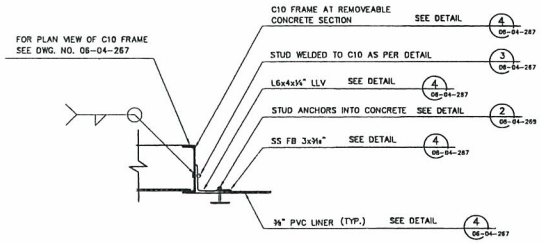
DWG. NO. 06-03-093 SECTION A–A



C–C 094 SECTION AT SLAB (LOOKING WEST)

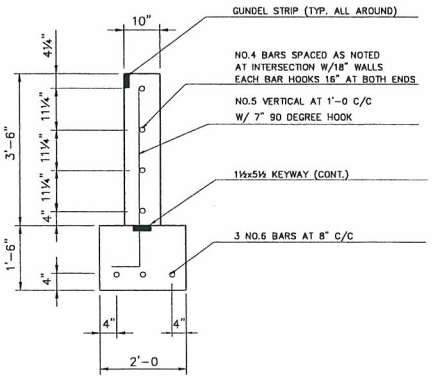


N PLAN AT INTERIOR SLAB



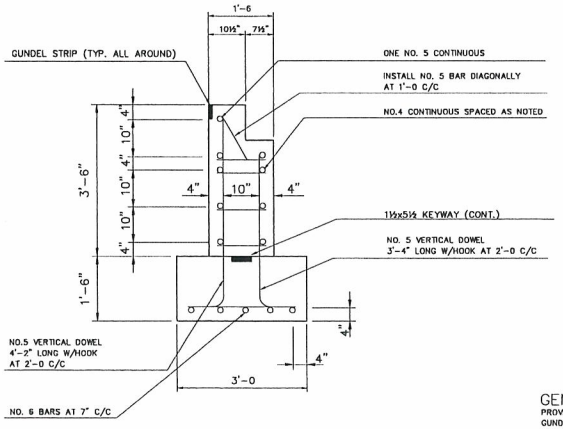
2 094 DETAIL TWO

SCALE 1" = 1'-0



3 094 SECTION AT 10" FND. WALLS

SCALE 3/4" = 1'-0 (LOOKING NORTH)



E–E 094 SECTION AT 1'-6" FND. WALLS

SCALE 3/4" = 1'-0

GENERAL NOTES:

PROVIDED BY AGRIUM:
GUNDEL STRIPS,TO BE CUT AND INSTALLED BY CONTRACTOR.
ASSEMBLED-REMOVEABLE C10 FRAMES.
CONTRACTOR TO PROVIDE REINFORCING AND CONCRETE
3/8" PVC LINER TO BE CUT AND INSTALLED BY CONTRACTOR
ALL SS COMPONENTS, READY FOR INSTALLATION

NOTES: LEGEND

C/C = CENTER TO CENTER
FND. = FOUNDATION
B.W. = BOTH WAYS
TYP. = TYPICAL
CONT. = CONTINUOUS

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PRINT RECORD

NO.	DATE	TO	NO.	DATE	TO

REFERENCE DRAWINGS

06-03-093
06-04-267
06-04-269
06-01-076

REVISIONS

NO.	DATE	BY	DESCRIPTION	APR

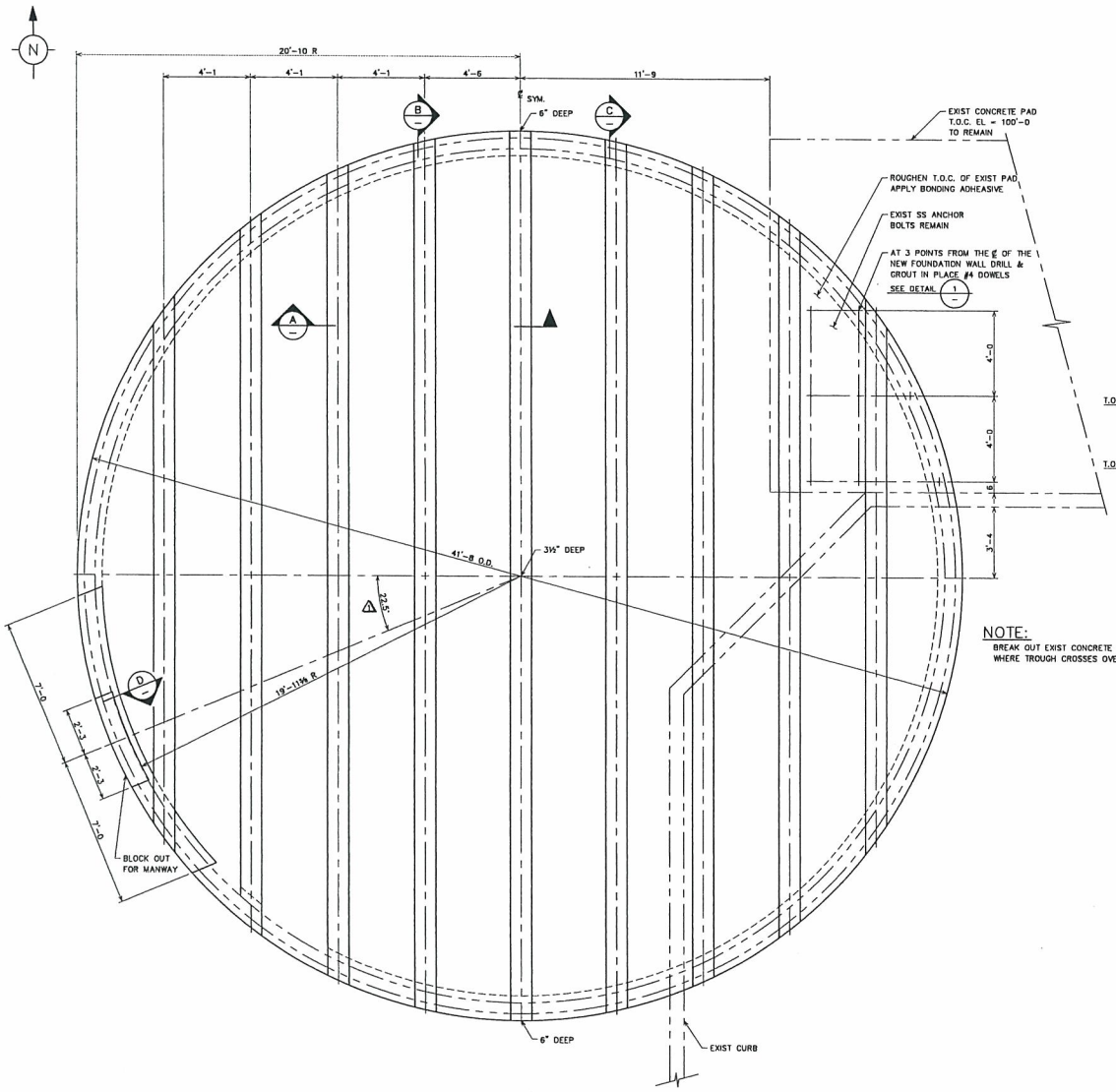
ENG. RECORD		DATE
DRAWN BY	LS	7/17/96
TRACED BY		
CHECKED BY		
APPROVED BY		
W. O. NO.		
SCALE 1/2" = 1'-0 U.N.O.		

NU-WEST INDUSTRIES INC.
3010 CONDA ROAD SODA SPRINGS, ID 83276

SPA BUILDING SECONDARY CONTAINMENT
SPA TRUCK LOADING STATION
PLANS AND DETAILS

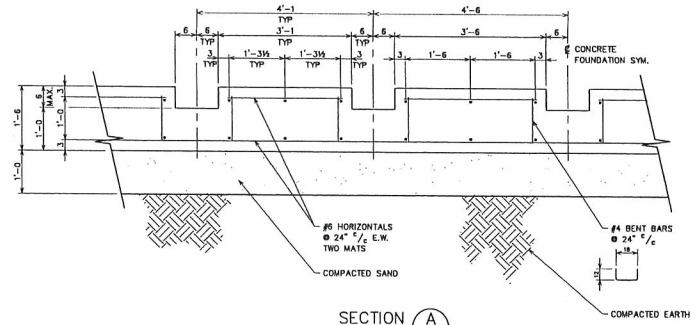
DWG NO. 06-03-094 REV 0

NUW 004696

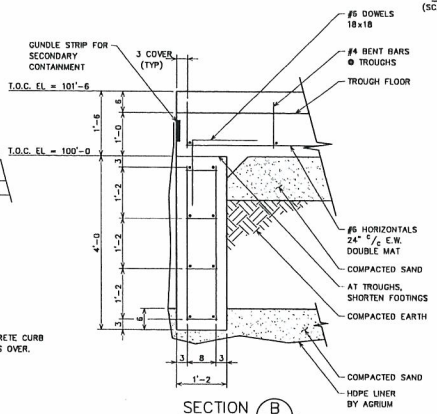


PLAN VIEW

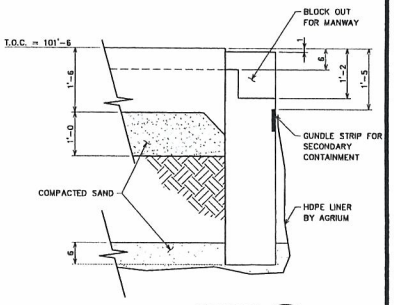
NOTE:
BREAK OUT EXIST CONCRETE CURB WHERE TROUGH CROSSES OVER.



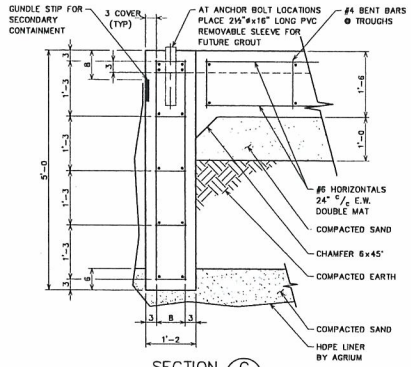
SECTION A
(SCALE: ¾" = 1'-0)



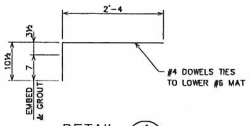
SECTION B
(SCALE: ¾" = 1'-0)



SECTION D
(SCALE: ¾" = 1'-0)



SECTION C
(SCALE: ¾" = 1'-0)



DETAIL 1
(9 REQ'D)
(SCALE: ¾" = 1'-0)

NOTE:
ALL CONCRETE THIS FOUNDATION TO BE 6 BAG MIX.

NOTICE
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PRINT RECORD

NO.	DATE	TO	NO.	DATE	TO

REFERENCE DRAWINGS

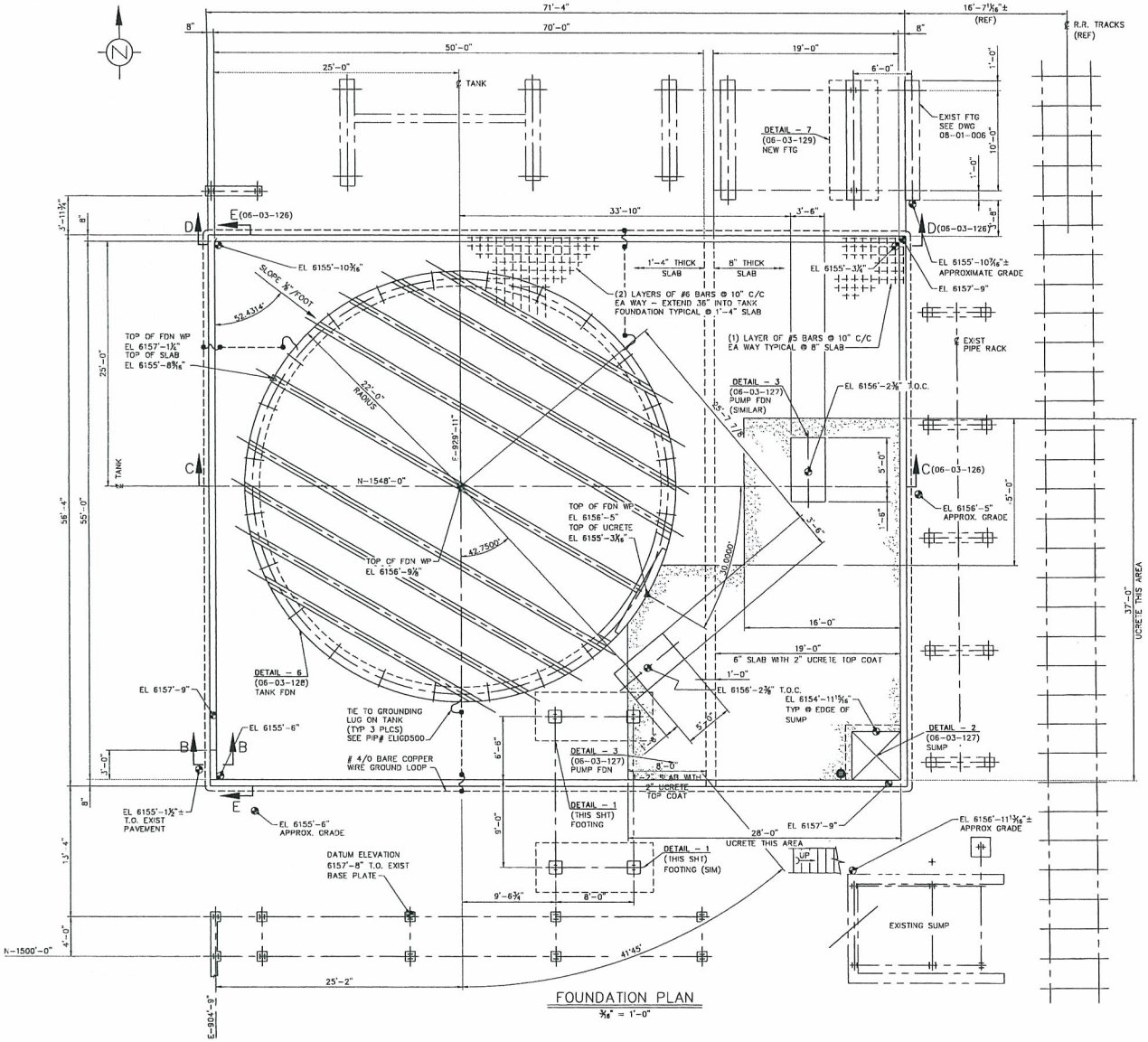
06-04-367	TANK #12 GRILLAGE BEAM GENERAL ARRANGEMENT & DETAILS
06-04-369	TANK #12 GRILLAGE BEAM DETAILS

REVISIONS

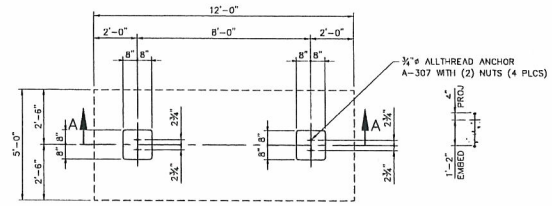
NO.	DATE	BY	DESCRIPTION	APR
1	8/24/01	TDH	CHANGED ANGLE FOR MANWAY BLOCK OUT	

ENG. RECORD		DATE
DRAWN BY	TDH	8/2/01
TRACED BY		
CHECKED BY		
APPROVED BY		
W.O. NO.		
SCALE: ¾" = 1'-0 U.N.		

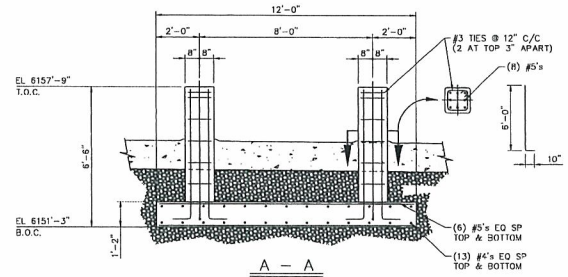
Agrium AGRIUM CPO INC.
3010 CONDA RD. SODA SPRINGS, ID 83276
PHOS ACID
TANK #12 CONCRETE FOUNDATION
GENERAL ARRANGEMENT & DETAILS
DWG NO. 06-03-115
1
REV



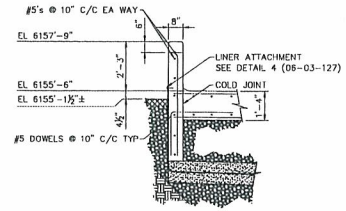
FOUNDATION PLAN
3/16" = 1'-0"



DETAIL 1 (2 PLCS SIM)
3/8" = 1'-0"



A – A
3/8" = 1'-0"



B – B
3/8" = 1'-0"

NOTES:

1. FOR GENERAL NOTES AND DRAWING INDEX, SEE 06-01-147.

ENGINEERING REVIEW OF NEW STRUCTURAL MODIFICATIONS AS NOTED ON THIS DRAWING

SIGNATURES

DEPARTMENT	NAME	DATE
TECH SERVICES		
MAINTENANCE		
OPERATIONS		
RISK MGT		
MANAGEMENT		

Granite Engineering & Design Incorporated

GED No: 02-102 | PLOT SCALE: 1 = 64 | PLOT DATE: 10/14/02

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PRINT RECORD

NO.	DATE	TO	NO.	DATE	TO

REFERENCE DRAWINGS

06-03-37	RAIL CAR WASH STATION FOOTINGS
06-05-378	TANK 26 DETAILS
06-06-372	TANK 26 PIPING
06-04-399	TANK 26 WALKWAY & STAIRS

REVISIONS

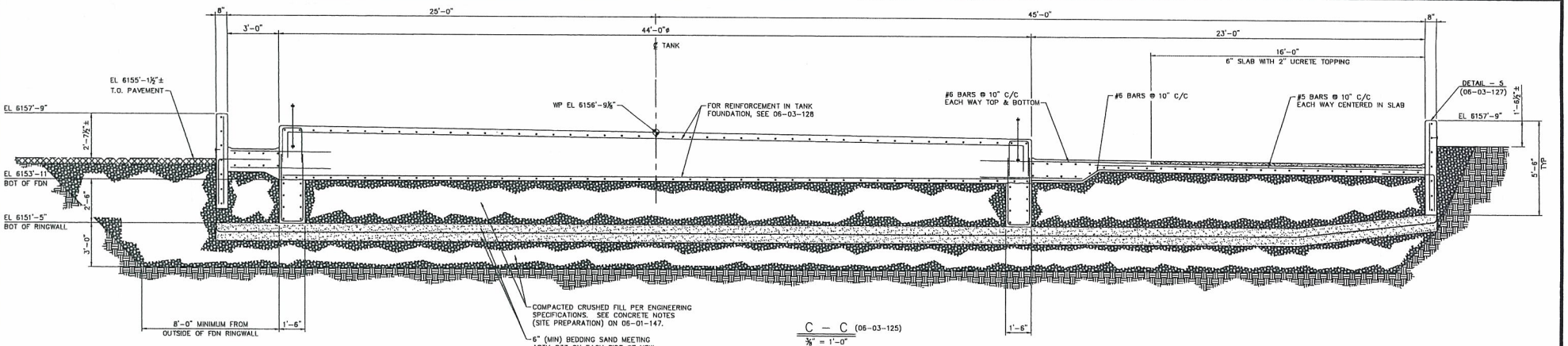
NO.	DATE	BY	DESCRIPTION	APR
0	10/13/02	MGB	ISSUED FOR CONSTRUCTION	
1	12/13/02	VRC	MOVED-PUMP	

ENG. RECORD		DATE
DRAWN BY	MTW	08/15/02
TRACED BY		
CHECKED BY	RTB	09/27/02
APPROVED BY		
W.O. NO.		
SCALE:	3/16" = 1'-0"	

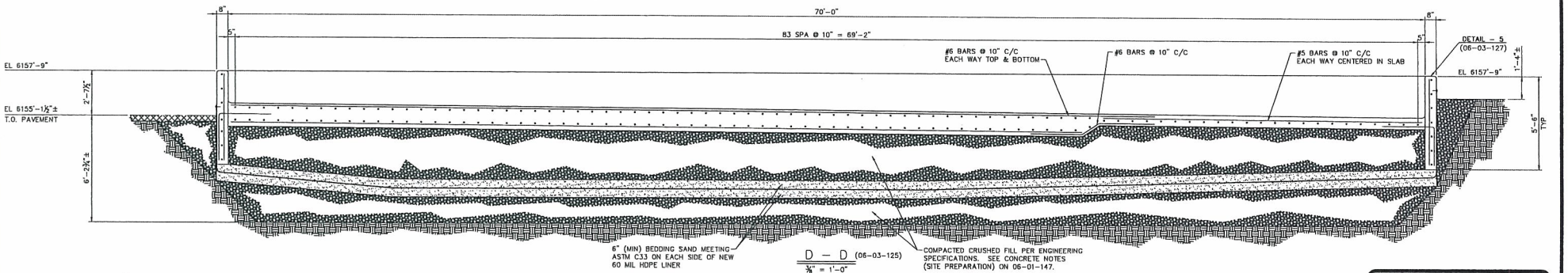
Agrium AGRIUM CPO INC.
5010 CONDA RD. SODA SPRINGS, ID 83276
GENERAL ARRANGEMENT
TANK 26 FOUNDATION & CONTAINMENT

DWG NO. 06-03-125 REV 1

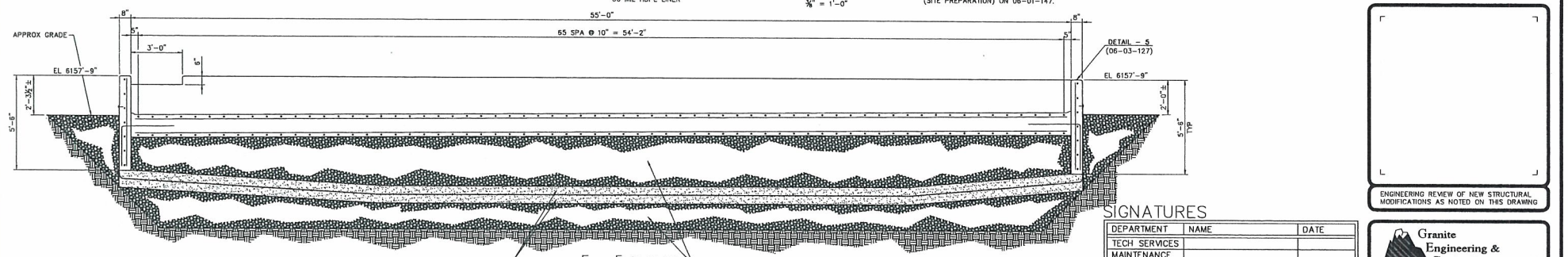
NUW 004698



C – C (06-03-125)
⅜" = 1'-0"



D – D (06-03-125)
⅜" = 1'-0"



E – E (06-03-125)
⅜" = 1'-0"

NOTES:

1. FOR GENERAL NOTES AND DRAWING INDEX, SEE 06-01-147.

ENGINEERING REVIEW OF NEW STRUCTURAL MODIFICATIONS AS NOTED ON THIS DRAWING

SIGNATURES

DEPARTMENT	NAME	DATE
TECH SERVICES		
MAINTENANCE		
OPERATIONS		
RISK MGT		
MANAGEMENT		

Granite Engineering & Design Incorporated

GED No: 02-102	PLOT SCALE: 1 = 32
	PLOT DATE: 10/13/02

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PRINT RECORD

NO.	DATE	TO	NO.	DATE	TO

REFERENCE DRAWINGS

06-03-125 GENERAL ARRANGEMENT TANK FOUNDATION

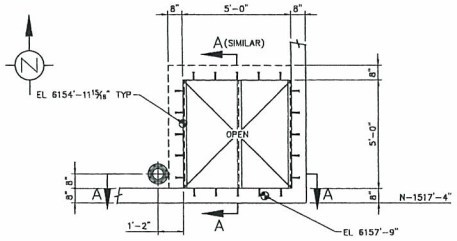
REVISIONS

NO.	DATE	BY	DESCRIPTION	APR.
0	10/13/02	MGB	ISSUED FOR CONSTRUCTION	

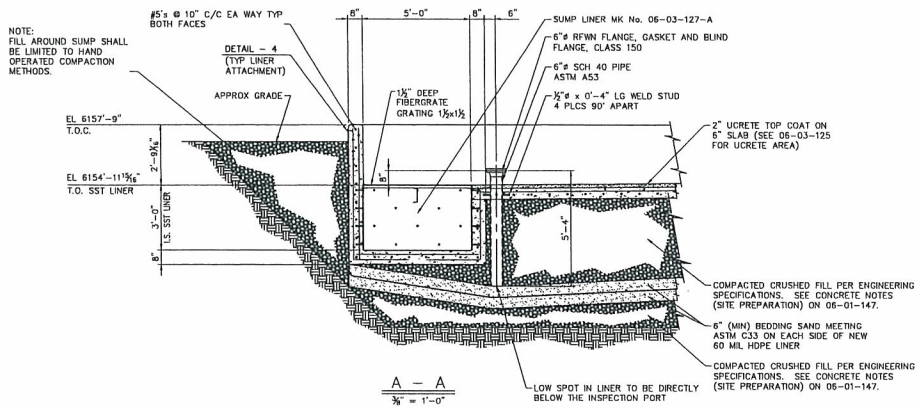
ENG. RECORD		DATE
DRAWN BY	MTW	08/13/02
TRACED BY		
CHECKED BY	RTB	09/27/02
APPROVED BY		
W.O. NO.		
SCALE:	3/16"=1'-0"	

Agrium AGRIUM CPO INC.
3010 CONDA RD. SODA SPRINGS, ID 83276
SECTIONS & DETAILS
TANK 26 FOUNDATION & CONTAINMENT

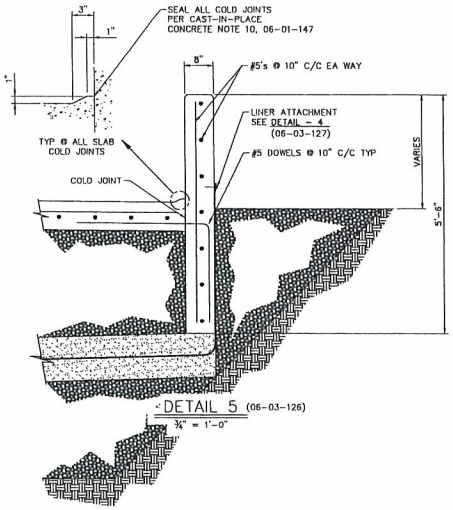
DWG NO. 06-03-126 REV 0



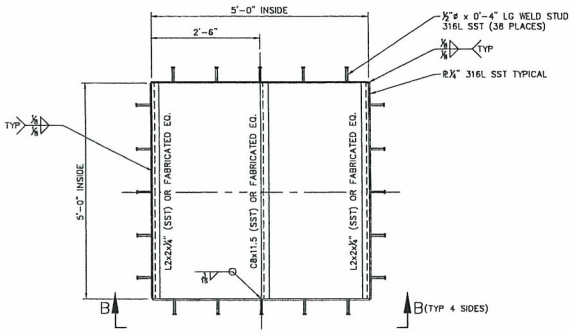
DETAIL 2 (06-03-125)
PLAN VIEW
3/8" = 1'-0"



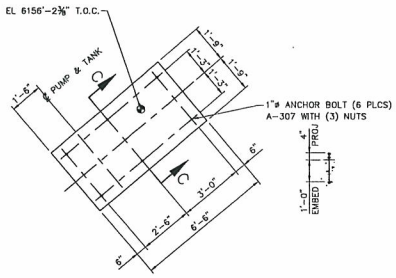
A - A
3/8" = 1'-0"



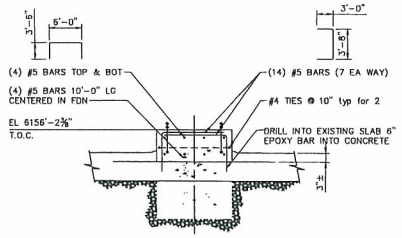
DETAIL 5 (06-03-126)
3/4" = 1'-0"



ONE ~ SUMP LINER ~ MK No. 06-03-127-A
PLAN VIEW
3/4" = 1'-0"



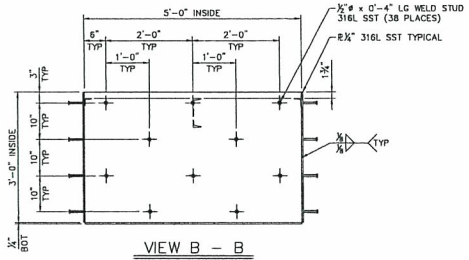
DETAIL 3 (06-03-125)
3/8" = 1'-0"



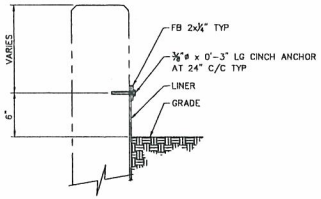
C - C
3/8" = 1'-0"

NOTES:

1. FOR GENERAL NOTES AND DRAWING INDEX, SEE 06-01-147.



VIEW B - B
3/4" = 1'-0"



DETAIL 4 (THIS SHT & 06-03-126)
1 1/2" = 1'-0"

ENGINEERING REVIEW OF NEW STRUCTURAL MODIFICATIONS AS NOTED ON THIS DRAWING

SIGNATURES

DEPARTMENT	NAME	DATE
TECH SERVICES		
MAINTENANCE		
OPERATIONS		
RISK MGT		
MANAGEMENT		

Granite Engineering & Design Incorporated

GED No: 02-102	PLOT SCALE: 1 = 32
	PLOT DATE: 10/13/02

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PRINT RECORD

NO.	DATE	TO	NO.	DATE	TO

REFERENCE DRAWINGS

06-03-125 GENERAL ARRANGEMENT TANK FOUNDATION

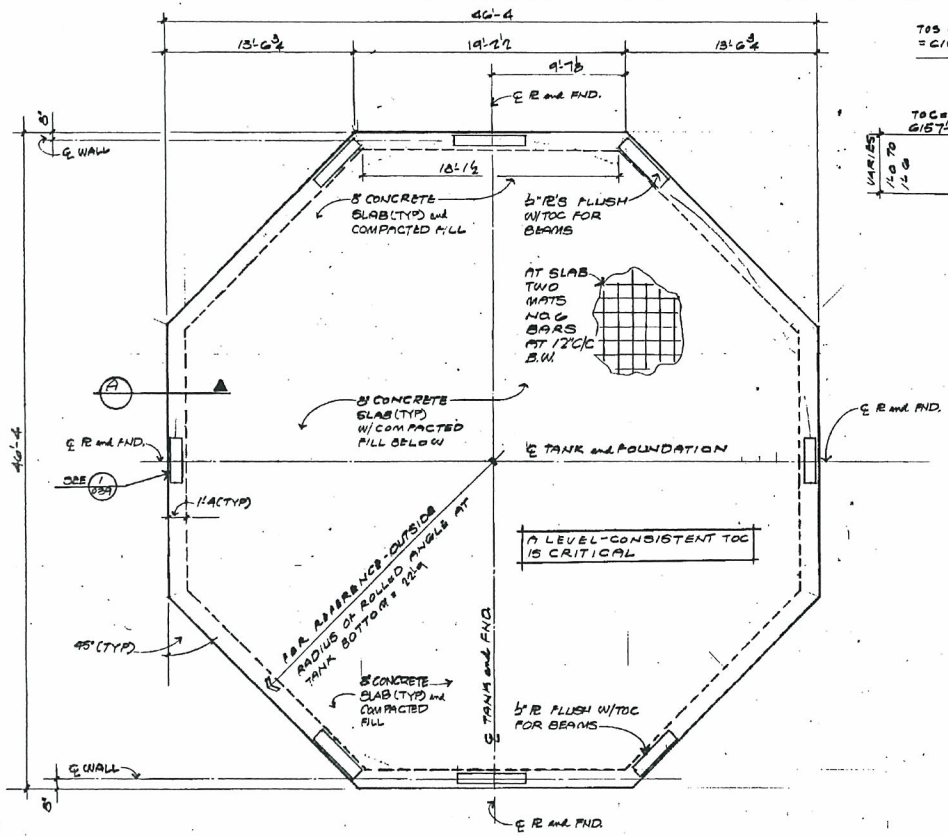
REVISIONS

NO.	DATE	BY	DESCRIPTION	APR
0	10/13/02	MGB	ISSUED FOR CONSTRUCTION	
1	7/28/03	VRC	MOVED PUMP	

ENG. RECORD		DATE
DRAWN BY	MTW	08/12/02
TRACED BY		
CHECKED BY	RTB	09/27/02
APPROVED BY		
W.O. NO.		
SCALE:	3/8"=1'-0"	

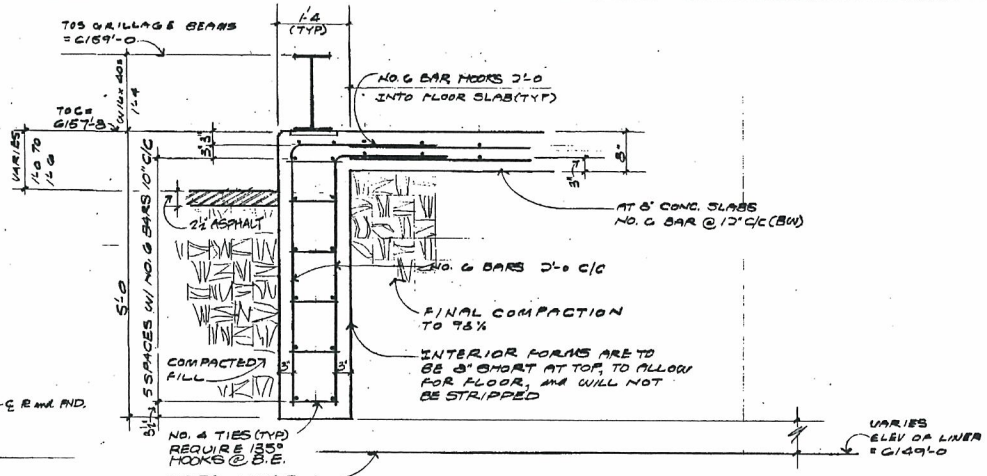
Agrium AGRIUM CPO INC.
3010 CONDA RD. SODA SPRINGS, ID 83276
SECTIONS & DETAILS
TANK 26 FOUNDATION & CONTAINMENT

DWG NO. 06-03-127 REV. 1



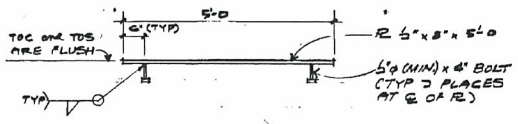
PLAN TOC = 6157'-8

SCALE: ¼" = 1'-0



A/039 SECTION @ WALL

SCALE: 1" = 1'-0



1/039 WELD PL (8 REQ'D)

BID NOTES:

1. ALTERNATIVE POURS, WITH COLD JOINTS, MAY BE CONSIDERED. HOWEVER FOR BID PURPOSES CONTRACTOR TO CONSIDER THE RING FOUNDATION and FLOOR SLAB AS A MONOLITHIC POUR.
2. ALL ½" WELD PLS ARE FURNISHED and INSTALLED BY CONTRACTOR. SEE DET. 1/039

GENERAL NOTES:

1. ALL CONCRETE TO BE TYPE II, 6 BAG MIX REACHING 4000 PSI IN 28 DAYS.
2. ALL REBAR TO BE GRADE 60.
3. CONTRACTOR TO BE PREPARED TO PROTECT ALL POURS 72 HRS FROM THE ELEMENTS AND FREEZING.
4. ALL REBARS ARE TO BE CUT and BENT COLD. THE WELDING OF BARS IS NOT ALLOWED.
5. IF PREFAB "CHAIRS" ARE NOT USED TO MAINTAIN THE PROPER DISTANCE BETWEEN REBARS THEN ONLY CONCRETE PRODUCTS SUCH AS BRICK OR BLOCK ARE TO BE USED.
6. WORK THIS DWG. WITH DWG. NO'S:
   03E-01-005 - GENERAL ARRANGEMENT
   03E-05-121 - TANK GENERAL ARRANGEMENT
   03E-02-001 - SITE PLAN
7. ASPHALT TO BE PART OF A FUTURE BID.

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PRINT RECORD

NO	DATE	TO	NO	DATE	TO

REFERENCE DRAWINGS

REVISIONS

NO	DATE	BY	DESCRIPTION	APR

ENG. RECORD		DATE
DRAWN BY	[signature]	2.2.76
TRACED BY		
CHECKED BY		
APPROVED BY		
W.O. NO.		
SCALE NOTED		

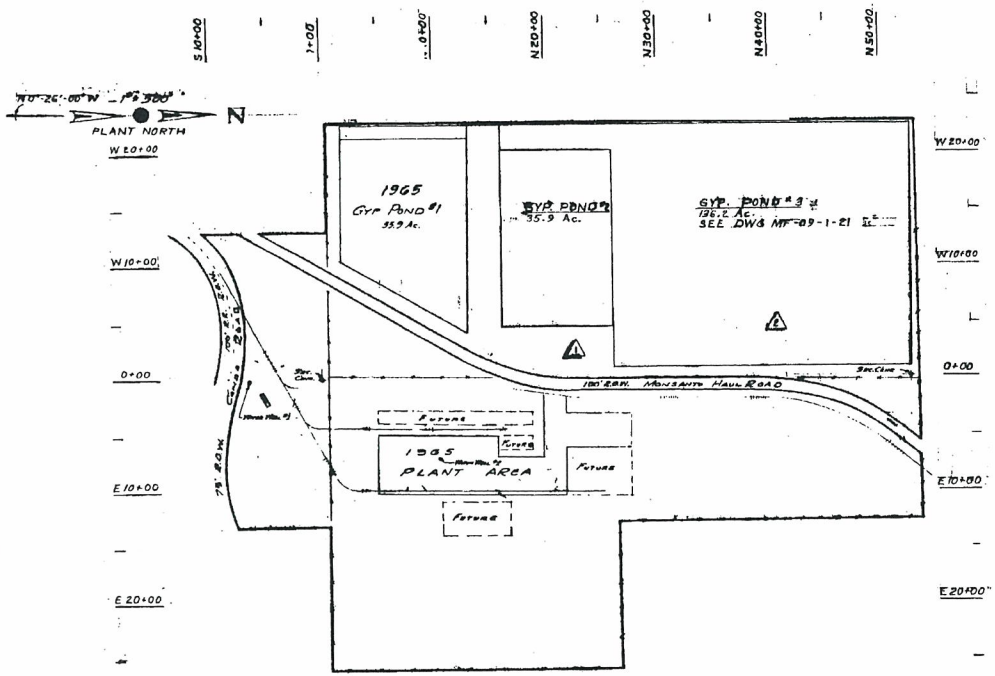
NU-WEST INDUSTRIES INC.
3019 CONDA ROAD SODA SPRINGS, ID 83276

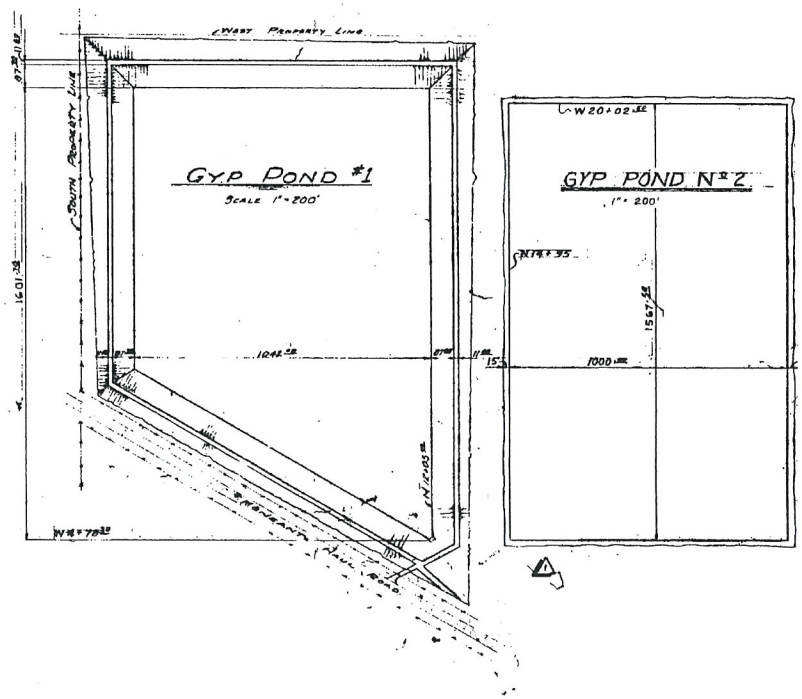
NORTH SULFURIC ACID PLANT
ACID STORAGE TANKS (KENNECOTT)
CONCRETE FOUNDATIONS

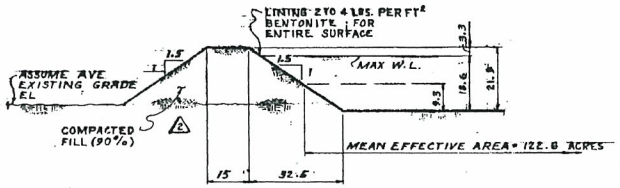
DWG NO. 08-03-001.

REV

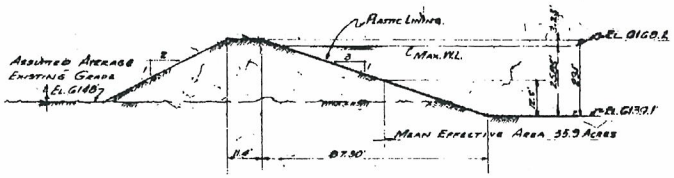
NUW 004701







TYPICAL DIKE SECTION POND #3
1" = 20'



TYPICAL DIKE SECTION POND #1
1" = 20'

EL PASO NATURAL GAS PRODUCTS
FERTILIZER COMPLEX
SODA SPRINGS, IDAHO

PLANT SITE & GYP PONDS
500 SCALE

DWG. NO. 9-1-104

NO.	REVISIONS	DATE	BY	CHKD	APPD
1	ADD No 2 GYP POND	5/6/65	LD		
2	ADD No 3 GYP POND & CORRECT CO-ORD	5/21/65	VRC		

REFERENCE DRAWINGS: 9-1-102 GENERAL PLOT PLAN (1" = 200')

PRINT RECORD: ISSUED; CONTRACTOR; PLANT ENG.; EL PASO FILE; FSCO; VENDOR

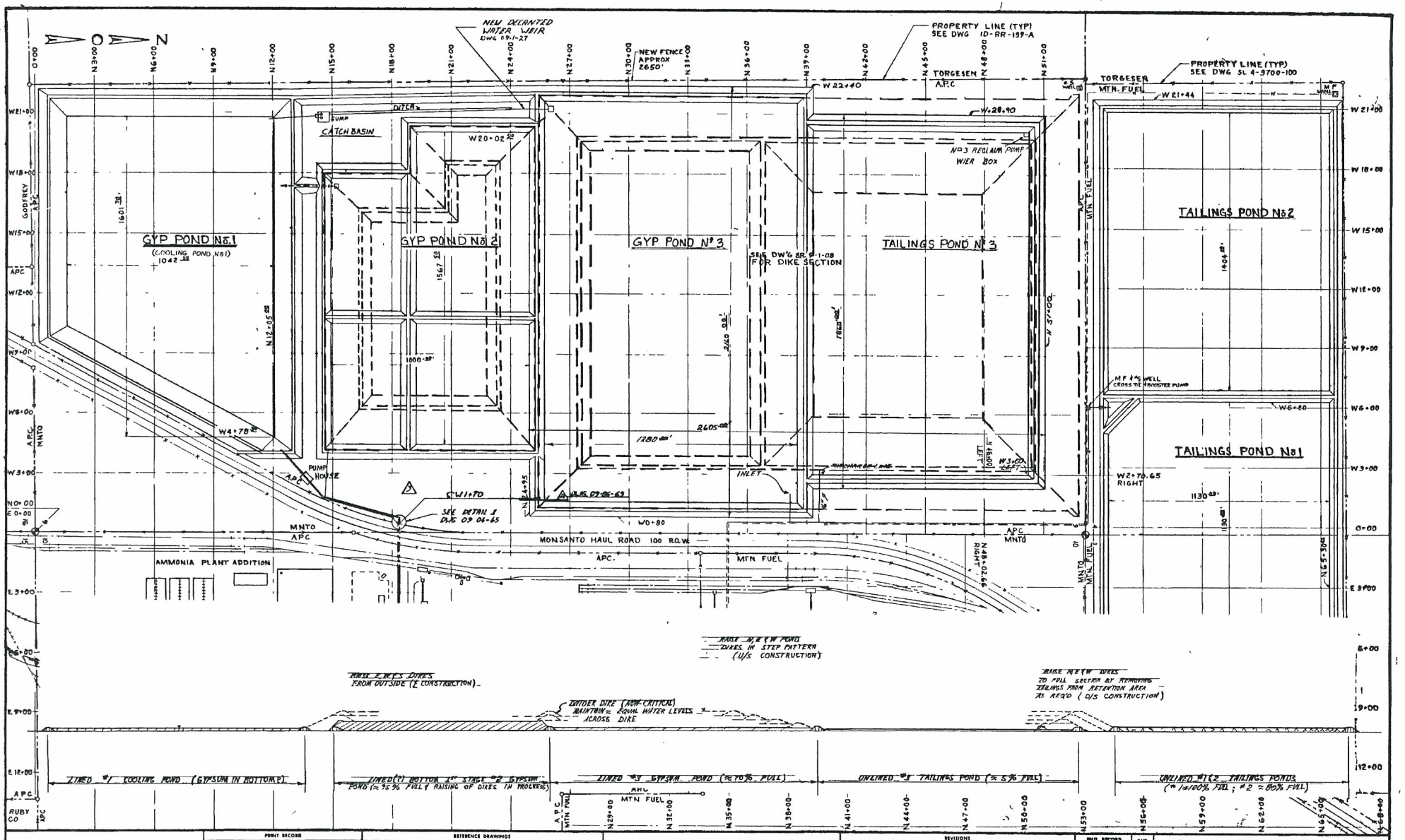
ENG. RECORD: DRAWN Hawkes 5-7-65; CHECKED EGH 11-1-65; REL'D CK.; STRUCT. CK.; ELECT. CK.; APPROVED; APPROVED; APPROVED

SCALE 1" = 500' (Approx)

Stearns-Roger

DRAWING NO. 8-9-1-80

NUW 004702



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PRINT RECORD

NO	DATE	TO	NO	DATE	TO

REFERENCE DRAWINGS

9-1-02	GENERAL PLOT PLAN
9 1 08	PLANT SITE & GYP POND
9-1 10	PLOT PLAN POND, PLANT & WELL LOC.
SL 4-3700-100	PLANT SITE - PLOT PLAN
SL-4-3700 101	PLANT SITE - UTILITIES PLOT PLAN
10 RR-139-A	AS BUILT EL PASO PLANT SITE
700-1700-(4 of 8)	TAILINGS POND No. 2 PLAN & SEC
SL-4 0206 001	TAILINGS POND No. 1 PLAN & PROFILE

9-3-63	REVISED SITE WITH CONCRETE DETAILS
9-6-63	PIPING & REVISED SITE LINE SECTIONS & DETAILS

REVISIONS

NO	DATE	BY	DESCRIPTION	APP
1	1-8-74	VRC	TAILINGS POND RECLAIM SYSTEM	
2	5-16	VRC	ADDED GYP POND No. 3 & REDRAWN	
3	6-11-75	VR	MOVED NEW DIKE TO S.W. WITH & LINER (ICP-401 AND)	ELC
4	12-7-76		REVISED #3 RECLAIM PUMP & ADDED 16" LINE	
5	1-77		REV. AS BUILT JAN 1977	

BND RECORD

		DATE
DRAWN BY	VRC	5-26-63
TRACED BY		
CHECKED BY		
APPROVED BY		
W.O. NO	168-401	
SCALE	1" = 200'	

CHARLES F WHITE PLANT
AGRICULTURAL PRODUCTS CORPORATION
PLANT OFFICE SCHOOL (CANTO BUTTE) P.O. BOX 87 PHONE (208) 547-4291

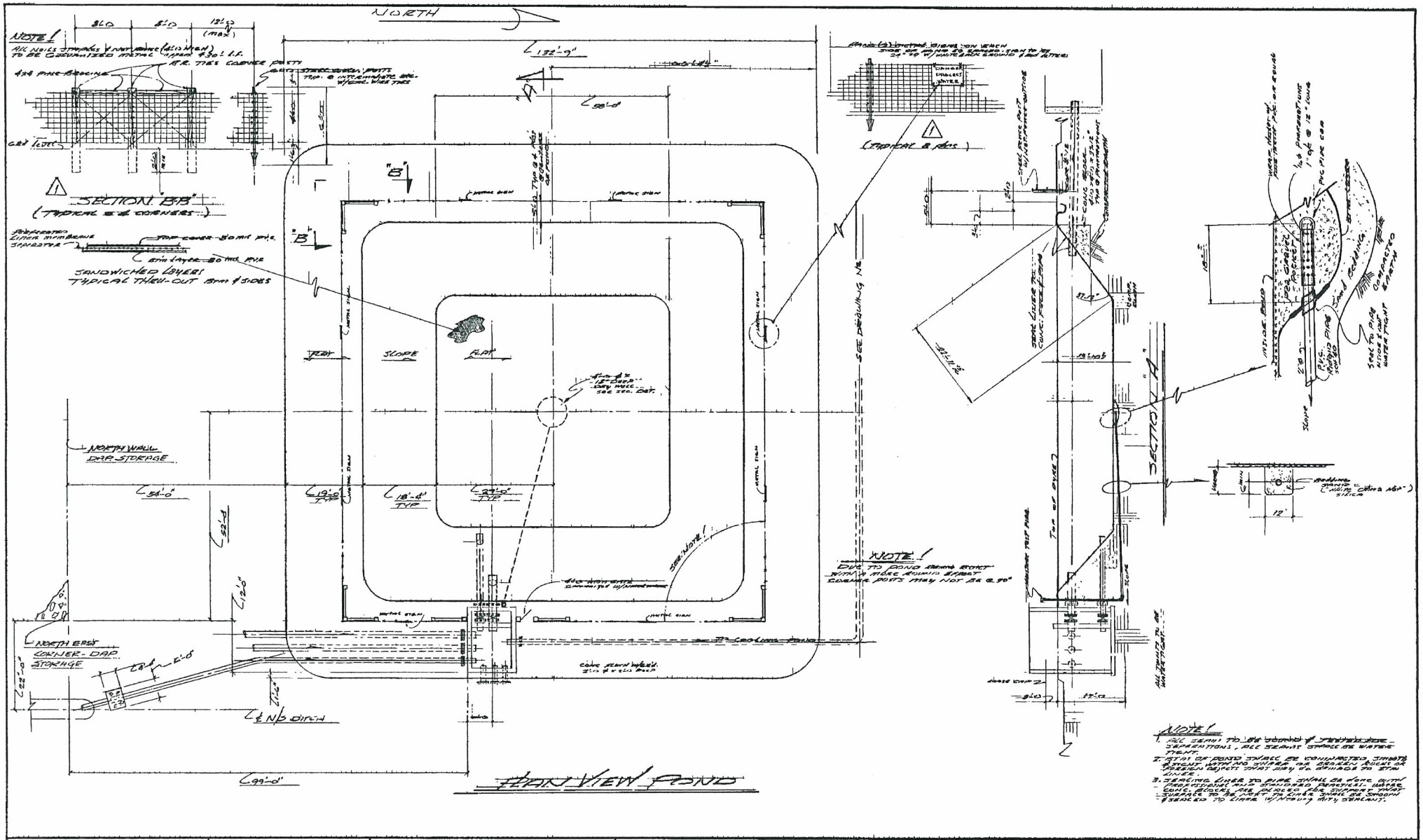
(FUTURE) PLOT PLAN
GYP & TAILINGS PONDS

DWG NO MF-09-1-21A

2 REV

FORM P.2 12R (Rev 6-73)

NUW 004703



NOTICE	PRINT RECORD	REFERENCE DRAWINGS	REVISIONS	ENG RECORD	
THIS DRAWING IS THE PROPERTY OF BEKER INDUSTRIES CORP. AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY AND IS SUBJECT TO RETURN UPON REQUEST AND SHALL NOT BE REPRODUCED COPIED LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED	NO DATE TO / NO DATE TO	07-02-62 GREEN HS'y FOR COPY. SUMP 09-03-61 SINGLE ELL COUPLER 12" 07-02-60 DOUBLE ELL COUPLER 12" 07-03-59 " " " 18" 07-03-58 SCREEN-POND LINE 07-03-56 DIAMULT PIPE STRETCH	NO DATE BY DESCRIPTION APR 1 9/16/96 CW Added Pipe & Changed Location of Monitor Test Pipe	DRAWN BY CW 7/19/96 TRACED BY CHECKED BY APPROVED BY IN C NO SCALE 1"=10'-0"	DATE

C F WHITE PLANT
BEKER INDUSTRIES CORP.
PLANT STREET COHOES NEW YORK 12047 P.O. BOX 11-PHONE (518) 447-6291

PLAN & LINER FOR PROCESS SEWER SUMP HEIGHT & DETAILS

DWG NO. 09-01-61 REV 0

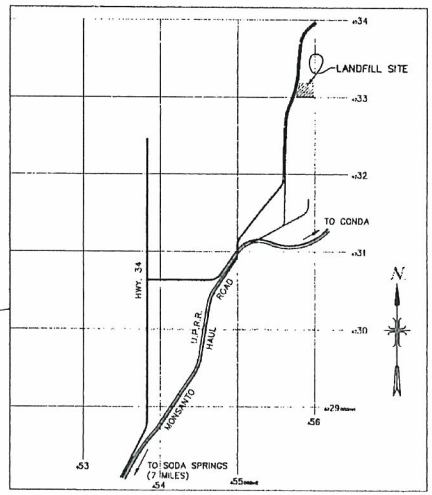
GRAPHIX INC 293010

NUW 004704

PLANS

AGRIUM–CONDA PHOSPHATE OPERATIONS
1999 C&D LANDFILL PROJECT
CONDA, IDAHO

SITE



VICINITY MAP

INDEX OF SHEETS

SHEET	DESCRIPTION	SHEET	DESCRIPTION
1	TITLE SHEET	7	LANDFILL CELL PLAN/CROSS SECTIONS AND LINER DETAIL
2	SITE PLAN	8	ACCESS ROAD
3	LEACHATE POND	9	STORMWATER RUN–OFF SYSTEM
4	LEACHATE POND DETAILS	10	STORMWATER / BYPASS COLLECTION DITCHES AND FENCING
5	LEACHATE LINE AND DETAILS	11	FENCING AND FENCE DETAILS
6	LEACHATE LINE DETAILS		

ENGINEER:

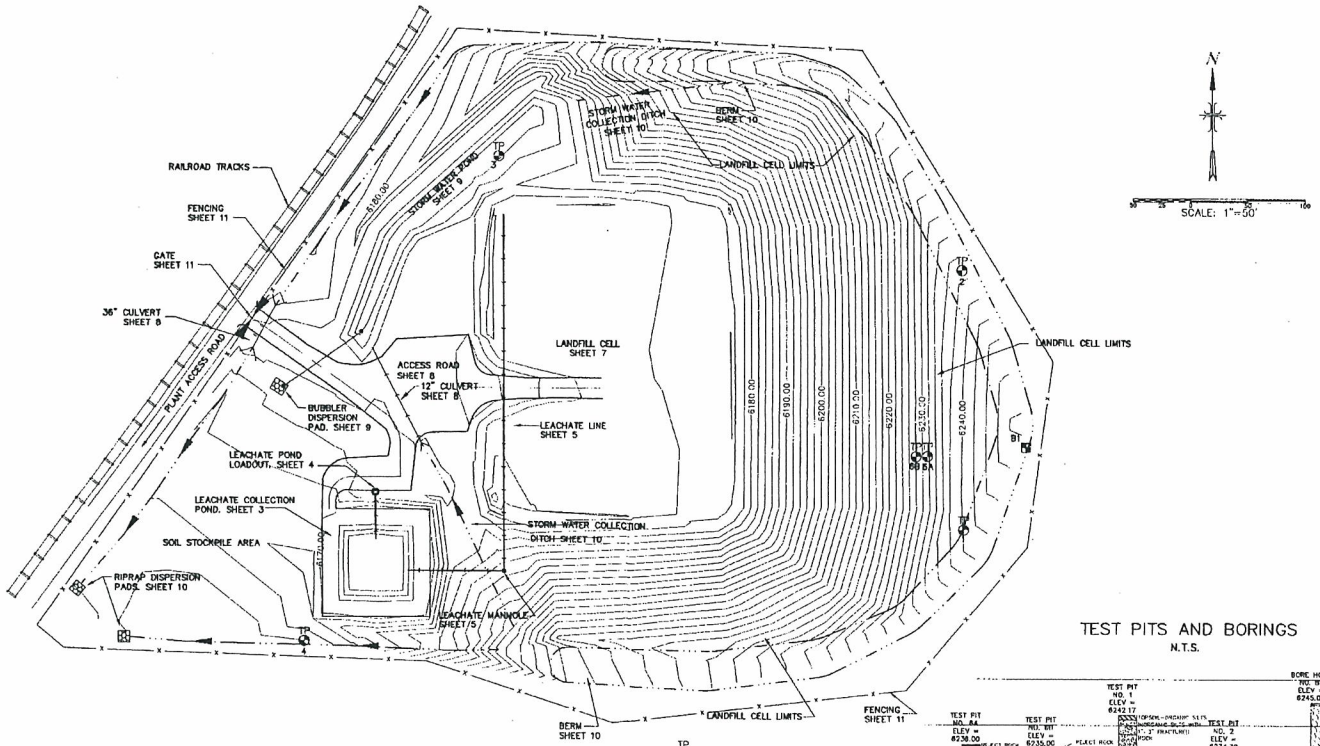
J–U–B ENGINEERS, Inc.
Engineers Surveyors Planners
151 North Third
Suite 102
Pocatello, Idaho 83201

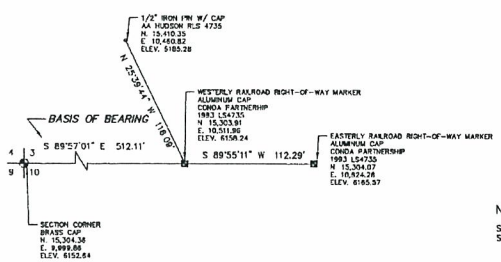
RECORD DRAWINGS
These Record Documents have been prepared based on the information provided by others J–U–B ENGINEERS, Inc. has not verified the accuracy of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result.

OWNER:

AGRIUM–CONDA PHOSPHATE OPERATIONS
3010 CONDA ROAD
SODA SPRINGS, IDAHO 83276

RECORD DRAWINGS
09-01-111





TEST PITS AND BORINGS

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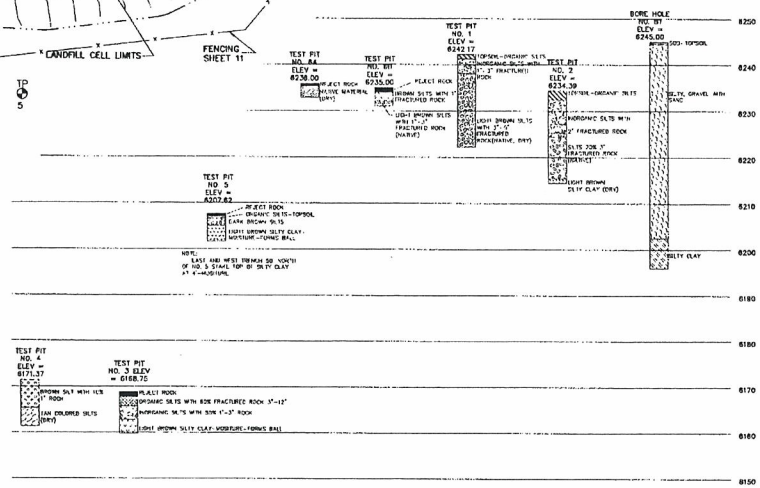

NOTES

STOCKPILE AREAS SHALL BE PREPARED PRIOR TO PLACING MATERIAL. THE FOLLOWING STEPS SHALL BE COMPLETED AS PART OF THE PREPARATION:

1. CLEAR AREA OF ROCK, BRUSH AND DEBRIS.
2. GRADE SITE SMOOTH TO A UNIFORM GRADE.
3. SCARIFY TO A DEPTH OF 12" AND COMPACT TO 95% MAX. STD. DENSITY PER ASTM D-698.

ROCK IS NOT TO BE PLACED IN STOCKPILE.

EXCESS MATERIAL MAY BE STOCKPILED OFF-SITE AT THE DISCRETION OF THE ENGINEER AND OWNER. OFF-SITE LOCATIONS FOR STOCKPILING SOIL MATERIAL ARE WITHIN 2000' OF THE SITE.

RECORD DRAWINGS

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RECORD DRAWINGS

J-U-B Engineers • Surveyors • Planners

J-U-B ENGINEERS, Inc.
151 NORTH THIRD
SUITE 102
POCATELLO, IDAHO 83201
PHONE: 208-232-1313
FAX: 208-232-3489

AGRIUM-CONDA PHOSPHATE OPERATIONS
1999 C+D LANDFILL PROJECT

SITE PLAN

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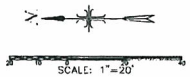
NO.	DESCRIPTION	BY	APP.	DATE
	REVISION			

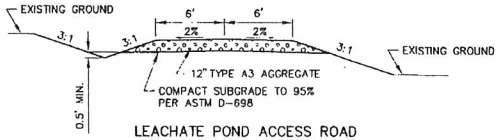
DRAWN BY: RVH
DESIGN BY: JMU/RVH
CHECKED BY: SFF
ARCHIVE LOCALE: 8980521
PROJECT NO. 11439
ACAD PLOT SCALE: 1=50
ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY
SCALE OF SHEET
HOR SCALE: 1"=50'
VER SCALE: NONE

SHEET 2 OF 11

09-01-112

NUW 004706





LEACHATE POND ACCESS ROAD
TYPICAL SECTION
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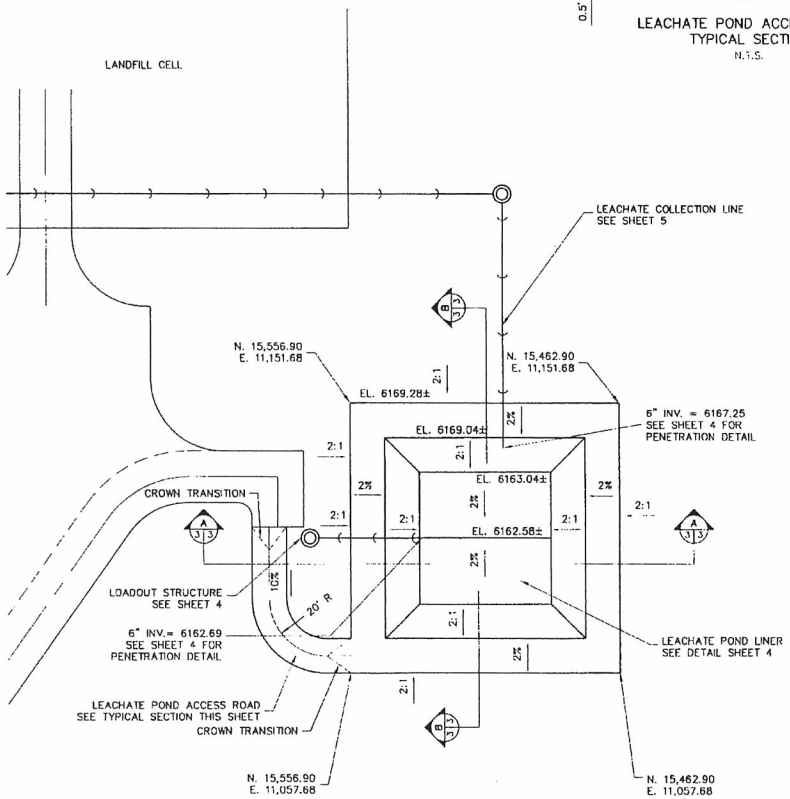
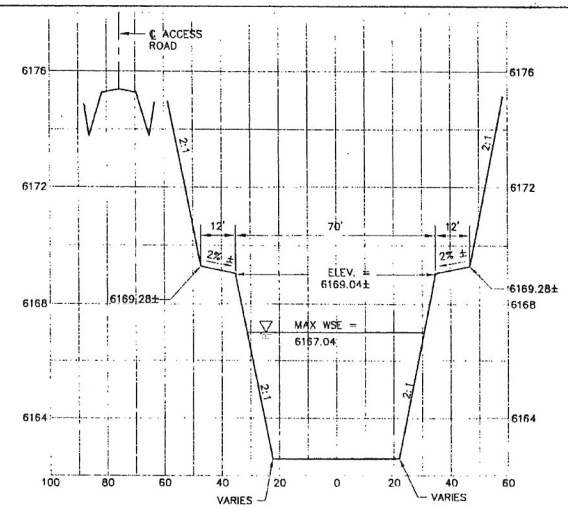
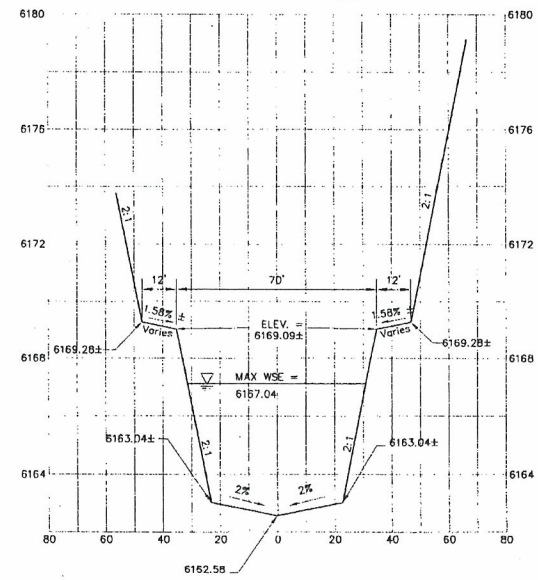




SECTION A 3/3



SECTION B 3/3

RECORD DRAWINGS

RECORD DRAWINGS
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09-01-113

J-U-B Engineers • Surveyors • Planners

J-U-B ENGINEERS, Inc.
151 NORTH THIRD
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POCATELLO, IDAHO 83201
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AGRIUM-CONDA PHOSPHATE OPERATIONS
1999 C-D LANDFILL PROJECT

LEACHATE POND

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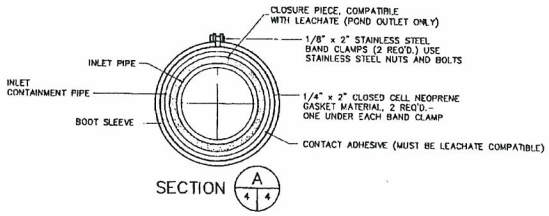
NO.	DESCRIPTION	BY	APR.	DATE
	REVISION			

DRAWN BY: LDW
DESIGN BY: JML
CHECKED BY: SFT
ARCHIVE LOCALE: 9990531
PROJECT NO. 11439
ACAD PLOT SCALE: 1=20 (ONE INCH)
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY
SCALE OF SHEET
HOR SCALE: 1"=20'
VER SCALE: 1"=2'

SHEET 3 OF 11

NUW 004707



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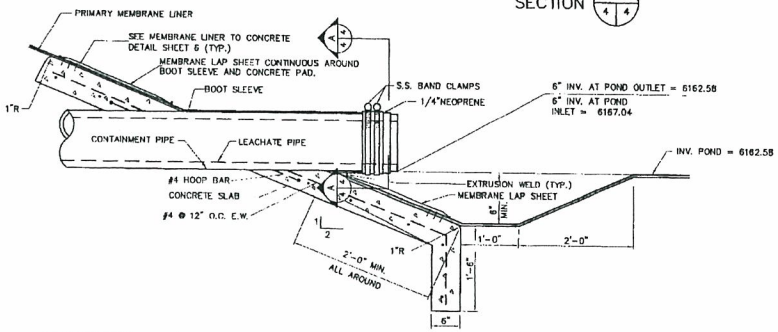
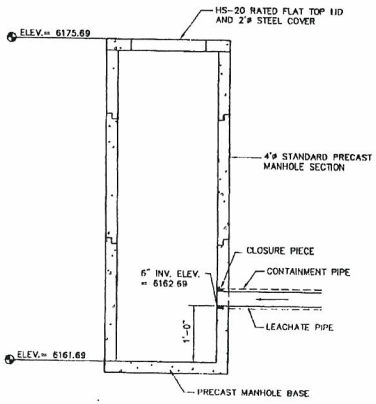


LEACHATE POND PIPE PENETRATIONS DETAIL
N.T.S.
DET3



LOADOUT STRUCTURE
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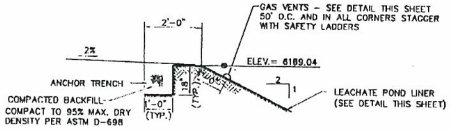

LEACHATE COLLECTION POND
MEMBRANE LINER ANCHOR DETAIL
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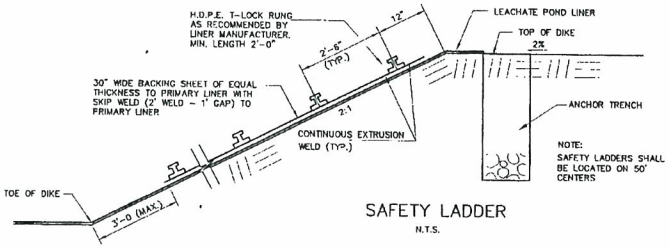
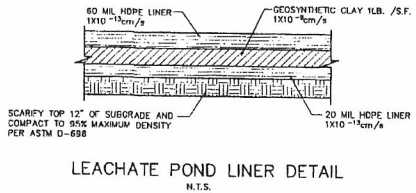
DET1



SAFETY LADDER
N.T.S.



LEACHATE POND LINER DETAIL
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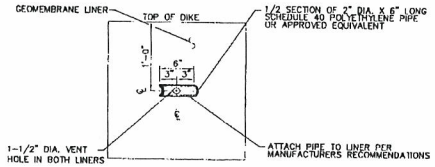

GAS VENT DETAIL
N.T.S

RECORD DRAWINGS
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RECORD DRAWINGS
09-01-114

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AGRIUM-CONDA PHOSPHATE OPERATIONS
1999 C+D LANDFILL PROJECT

LEACHATE POND DETAILS

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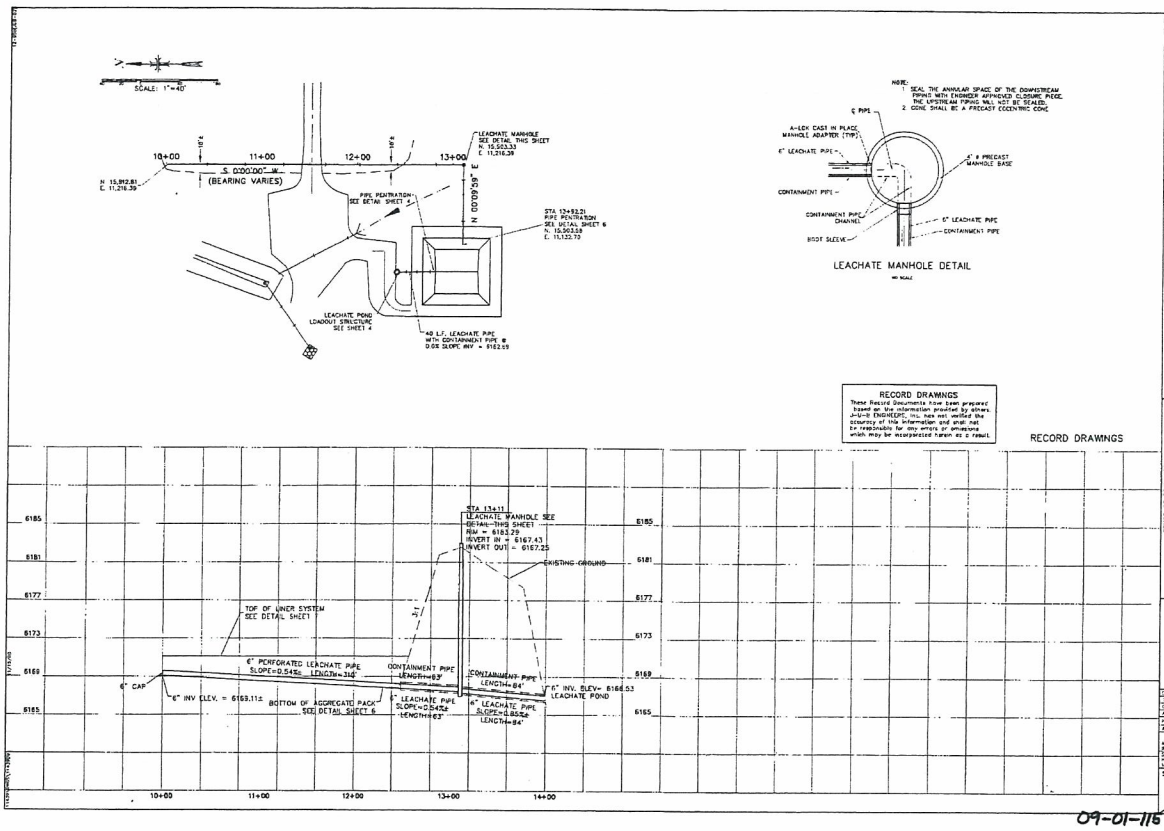
REVISION			
NO.	DESCRIPTION	BY	DATE

DRAWN BY: DAK
DESIGN BY: JMU
CHECKED BY: SFT
ARCHIVE LOCATE: 0800521-04
PROJECT NO. 11439
ACAD PLOT SCALE: 1=1
ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY
SCALE OF SHEET
HOR SCALE: AS SHOWN
VER SCALE: NONE

SHEET 4 OF 11



J-U-B ENGINEERS, Inc.
151 NORTH 3RD
SUITE 182
PRESCOTT, AZ 86301
PHONE: 928-232-1331
FAX: 928-232-3489

AGRIUM-CONDA PHOSPHATE OPERATIONS
1999 C-1-D LANDFILL PROJECT

LEACHATE LINE AND DETAILS

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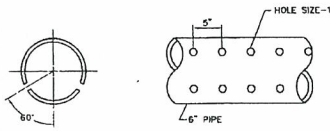
REVISIONS		

DRAWN BY: LEA/PVH
DESIGN BY: AJ
CHECKED BY: RFF
APPROVED BY: LEA/RFF/AMB/CJS
PROJECT NO: 11439
ACAD FILE: SCALE: 1"=40'
(ARC WCR)
AS BUILT INFO IN RED BY:
ACCU. SCALE: ACCEPTABLY
SCALE OF PLOT: 1"=1"
SCALE: 1"=1"
SEAL SCALE: 1"=1"

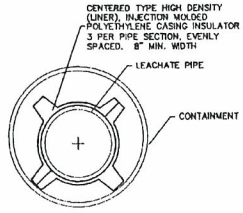
SHEET 5 OF 11

09-01-116



6" PERFORATED LEACHATE PIPE

N.T.S.



INSULATOR DETAIL

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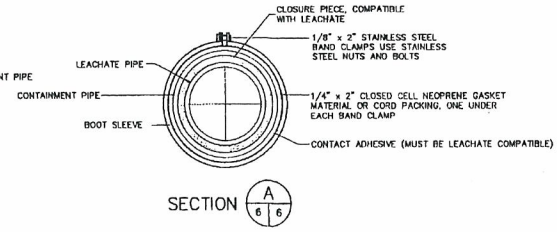
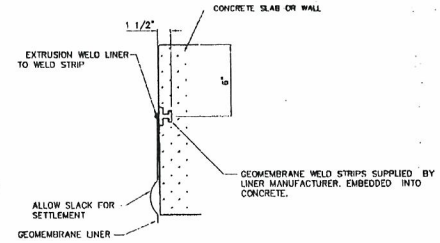


SECTION A 6 6



LINER TO CONCRETE ANCHOR DETAIL

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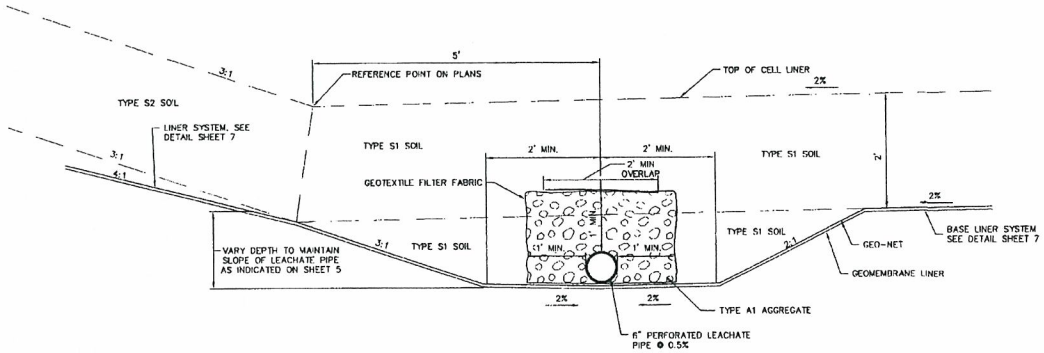

AGGREGATE PACK DETAIL

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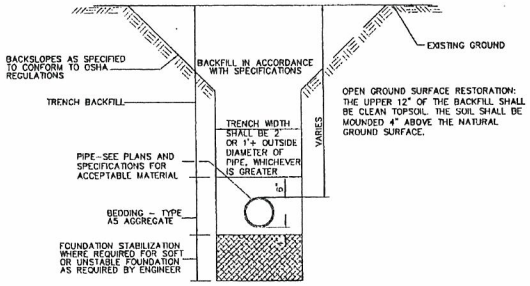

TYPICAL TRENCH DETAIL

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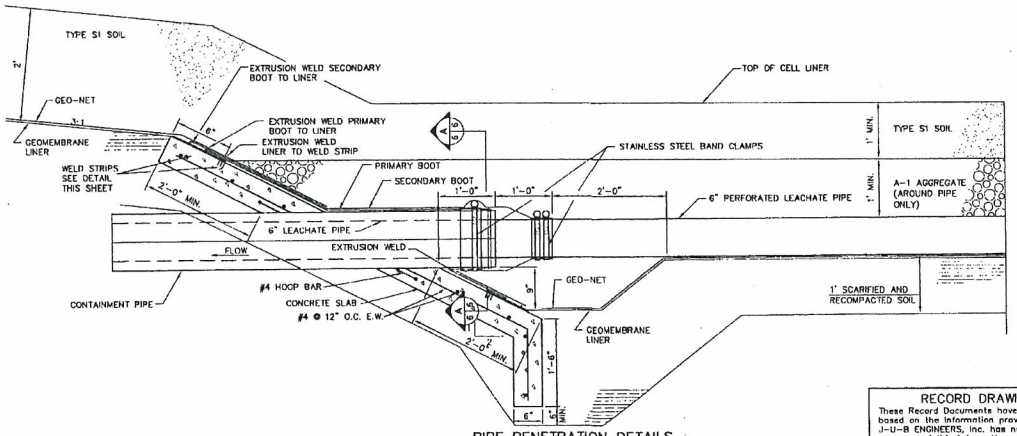

PIPE PENETRATION DETAILS

N.T.S.

PENTR

RECORD DRAWINGS

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RECORD DRAWINGS

09-01-116

J-U-B Engineers • Surveyors • Planners

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151 NORTH THIRD
SUITE 102
POCATELLO, IDAHO 83201
PHONE: 208-232-1313
FAX: 208-232-3489

AGRIUM-CONDA PHOSPHATE OPERATIONS
1999 C-D LANDFILL PROJECT

LEACHATE LINE DETAILS

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NO.	REVISION DESCRIPTION	BY	APP.	DATE

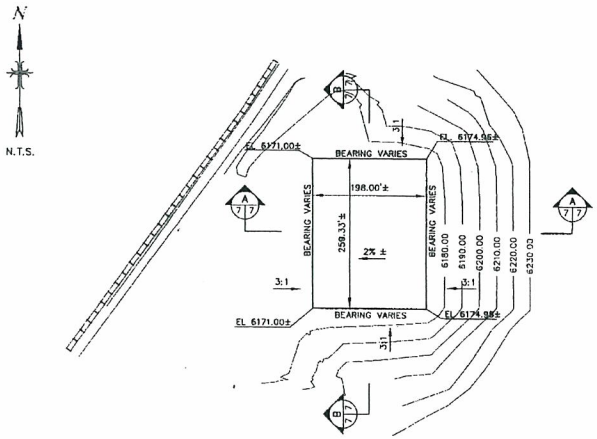
DRAWN BY: LUW
DESIGN BY: JMU
CHECKED BY: SFF
ARCHIVE LOCALE: 990921-06
PROJECT NO. 114.39
ACAD PLOT SCALE: 1=1
ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY.
SCALE OF SHEET
HOR SCALE: AS SHOWN
VER SCALE: NONE

SHEET 6 OF 11

12-95N(J-0)

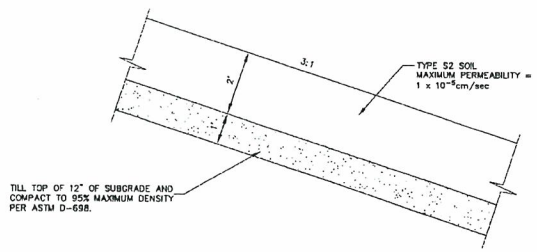
6/21/99

NUW 004710



LANDFILL CELL PLAN

SCALE: N/A



SLOPE SOIL LINER SYSTEM

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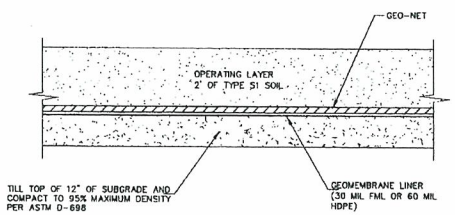

BASE LINER SYSTEM DETAIL

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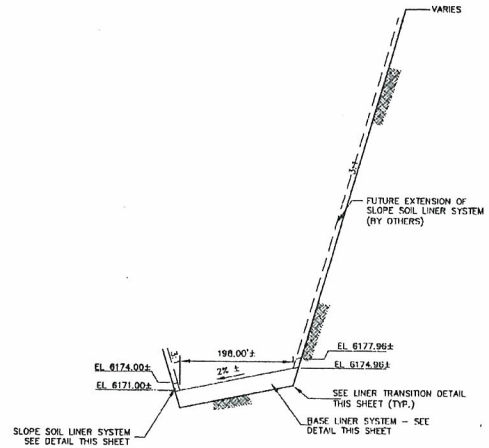
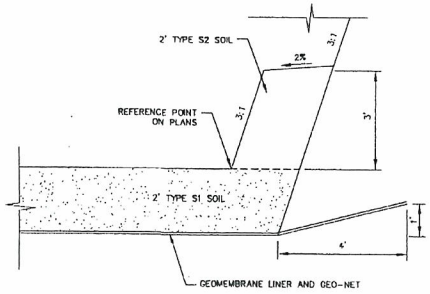


SECTION A 7 7

NOTE:
ALL DIMENSIONS, ELEVATIONS AND CROSS-SECTIONS ARE SHOWN FOR THE TOP OF THE 2' OPERATING LAYER.



LINER TRANSITION DETAIL

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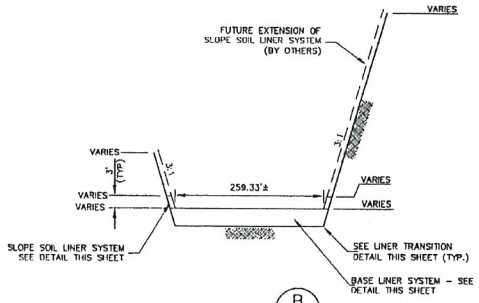

SECTION B 7 7

RECORD DRAWINGS
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RECORD DRAWINGS

J-U-B
Engineers • Surveyors • Planners

J-U-B ENGINEERS, Inc.
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SUITE 102
POCATELLO, IDAHO 83201
PHONE: 208-232-1313
FAX: 208-232-3489

AGRIUM-CONDA PHOSPHATE OPERATIONS
1999 C+D LANDFILL PROJECT

LANFILL CELL PLAN/CROSS SECTIONS
AND LINER DETAIL

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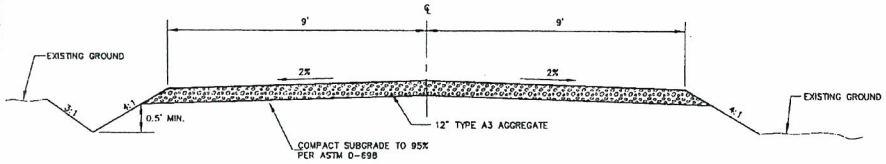
REVISION			
NO.	DESCRIPTION	BY	APR.	DATE

DRAWN BY: PJL/RVH
DESIGN BY: JMU/JG
CHECKED BY: SFF
ARCHIVE LOCALE: B980521-07
PROJECT NO. 11439
ACAD PLOT SCALE: 1=100
ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY
SCALE OF SHEET
HOR SCALE: AS SHOWN
VER SCALE: NONE

SHEET 7 OF 11

09-01-117

NUW 004711



SITE ACCESS ROAD AND PIT ACCESS ROAD
TYPICAL SECTION

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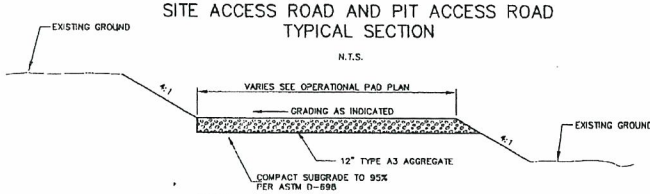

OPERATIONAL PAD TYPICAL SECTION

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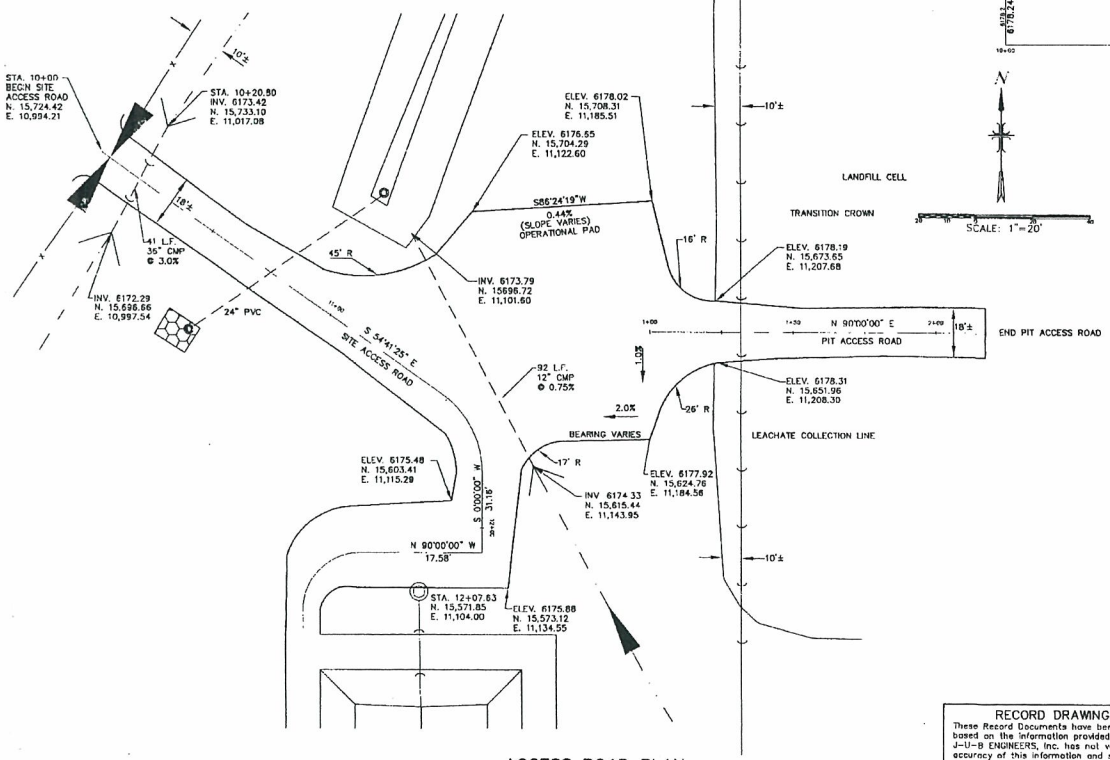
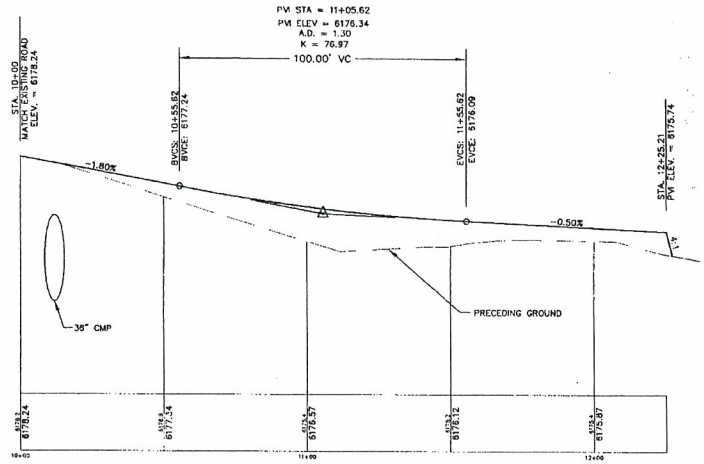


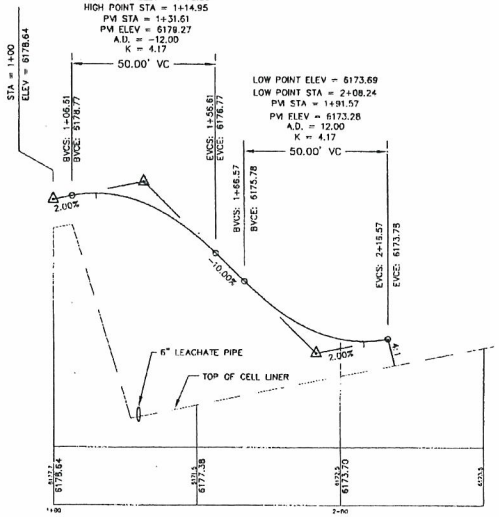
ACCESS ROAD PLAN

SCALE: 1" = 20'



SITE ACCESS ROAD

SCALE: 1" = 20' HORIZ.
1" = 2' VERT.



PIT ACCESS ROAD

SCALE: 1" = 20' HORIZ.
1" = 2' VERT.

RECORD DRAWINGS

RECORD DRAWINGS

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J-U-B Engineers-Surveyors-Planners

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PHONE: 208-232-1313
FAX: 208-232-3489

AGRIUM-CONDA PHOSPHATE OPERATIONS
1999 C+D LANDFILL PROJECT

ACCESS ROAD

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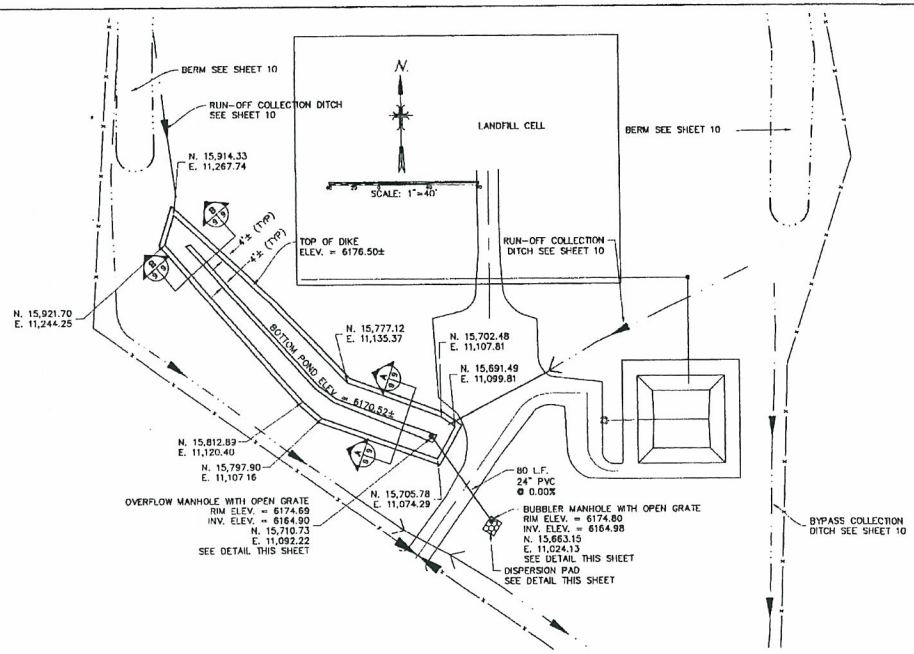
NO.	DESCRIPTION	BY	APP.	DATE
	NO REVISION			

DRAWN BY: TAK/DVH
DESIGN BY: JMU
CHECKED BY: SFF
ARCHIVE LOCALE: 0970521-08
PROJECT NO. 11439
ACAD PLOT SCALE: 1=1
ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY
SCALE OF SHEET
HOR SCALE: AS SHOWN
VER SCALE:

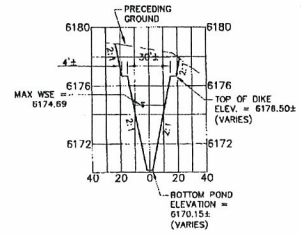
SHEET 8 of 11

09-01-118

NUW 004712



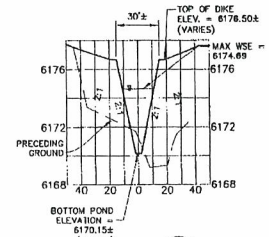
RUN-OFF RETENTION POND



SECTION A 9/9

STORM WATER RUN-OFF POND

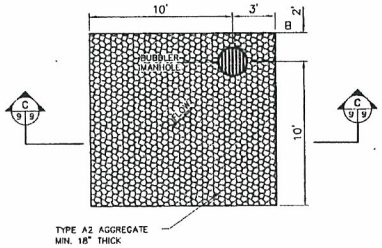
1" = 40' HORIZ.
1" = 4' VERT.



SECTION B 9/9

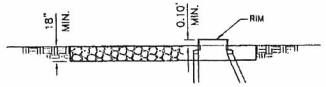
STORM WATER RUN-OFF POND

1" = 40' HORIZ.
1" = 4' VERT.



BUBBLER DISPERSION PAD DETAIL

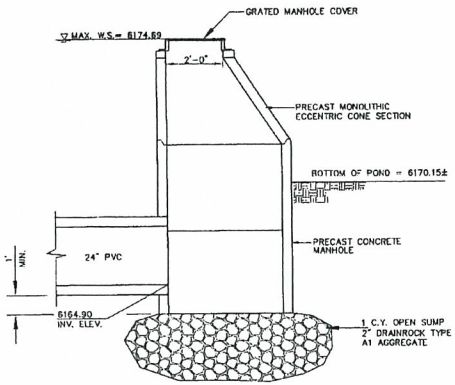
N.T.S.



SECTION C 9/9

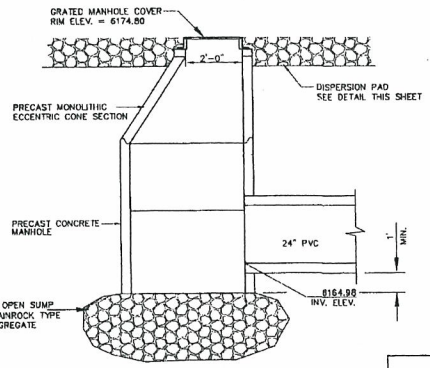
BUBBLER DISPERSION PAD CROSS SECTION

N.T.S.



OVERFLOW MANHOLE DETAIL

N.T.S.



BUBBLER MANHOLE DETAIL

N.T.S.

RECORD DRAWINGS

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RECORD DRAWINGS

09-01-119

J-U-B Engineers • Surveyors • Planners

J-U-B ENGINEERS, Inc.
151 NORTH THIRD
SUITE 102
POCATELLO, IDAHO 83201
PHONE: 208-232-1313
FAX: 208-232-3489

AGRIUM-CONDA PHOSPHATE OPERATIONS
1999 C+D LANDFILL PROJECT

STORMWATER RUN/OFF SYSTEM

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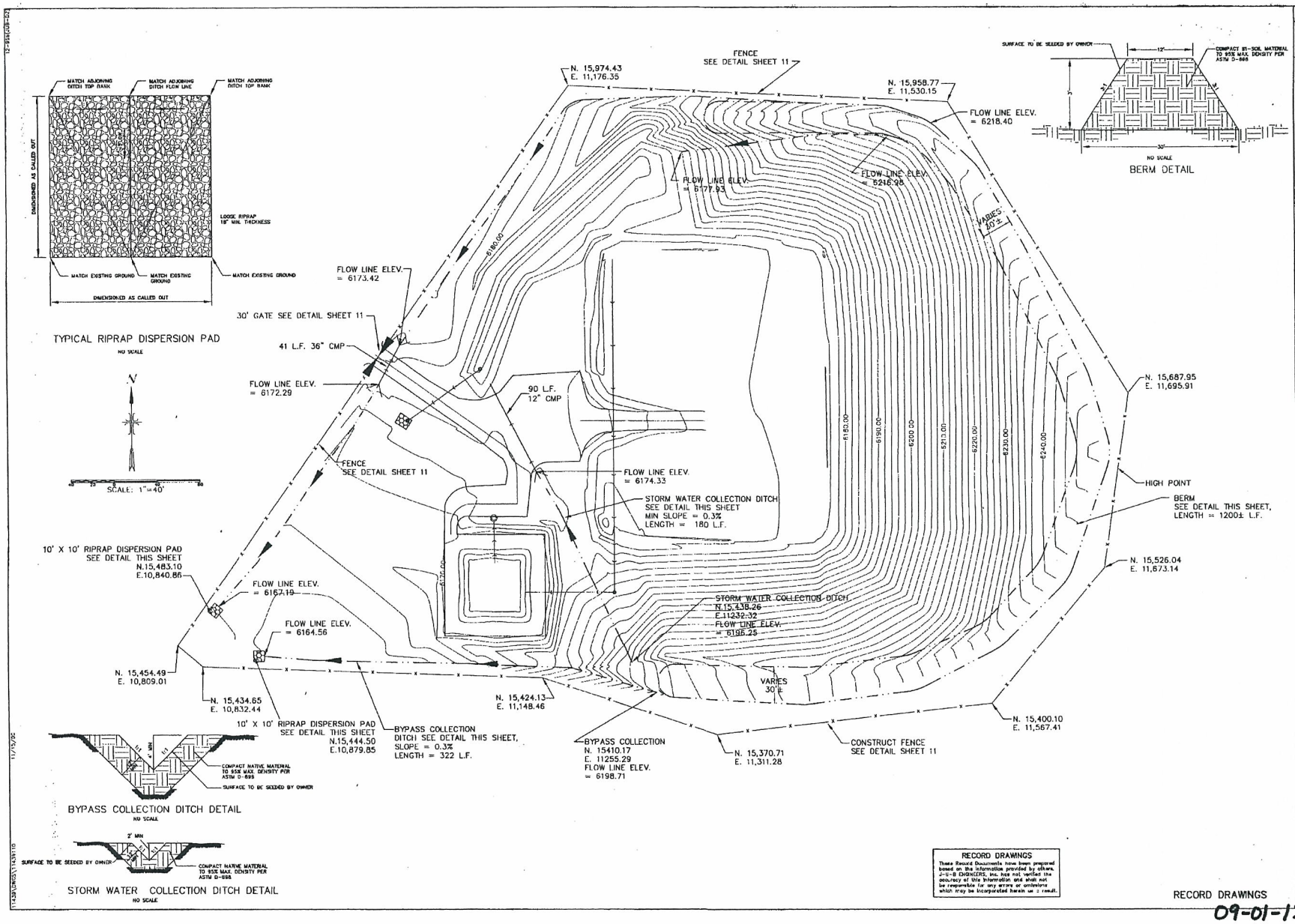
NO.	DESCRIPTION	BY	APP.	DATE
	REVISION			

DRAWN BY: LDW/RAH
DESIGN BY: JNU
CHECKED BY: SFF
ARCHIVE LOCALE: RH06021-09
PROJECT NO 114.39
ACAD PLOT SCALE: 1:1
1 SMI INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY
SCALE OF SHEET
HOR SCALE: AS SHOWN
VER SCALE: NONE

SHEET 9 OF 11

11/5/00

NUW 004713



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PHONE: 208-232-1313
FAX: 208-232-3489

AGRIUM-CONDA PHOSPHATE OPERATIONS
1999 C+D LANDFILL PROJECT

STORMWATER BYPASS
COLLECTION SYSTEM AND FENCING

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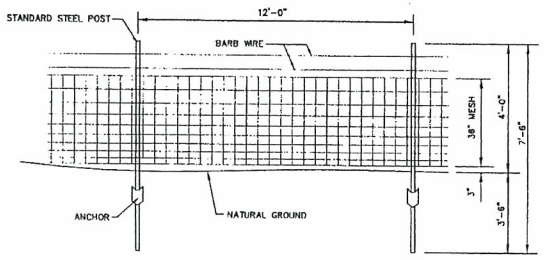
NO.	DESCRIPTION	BY	APP.	DATE
	REVISION			

DRAWN BY: RSH
DESIGN BY: JMU/RVH
CHECKED BY: SFF
ARCHIVE LOCALE: 0890621-10
PROJECT NO. 11439
ACAD PLOT SCALE: 1=40
ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY
SCALE OF SHEET
HOR SCALE: AS SHOWN
VER SCALE: NONE

SHEET 10 OF 11

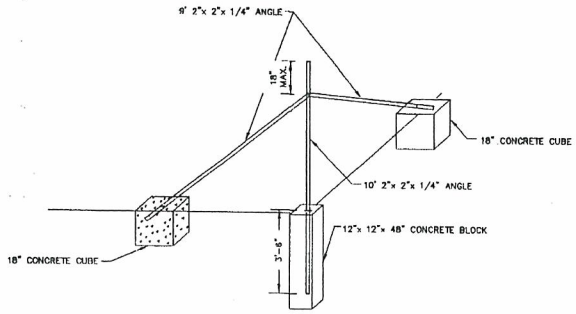
RECORD DRAWINGS
09-01-120

NUW 004714



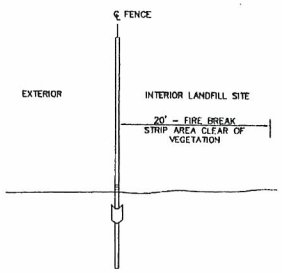
TYPICAL FENCE SECTION

N.T.S.



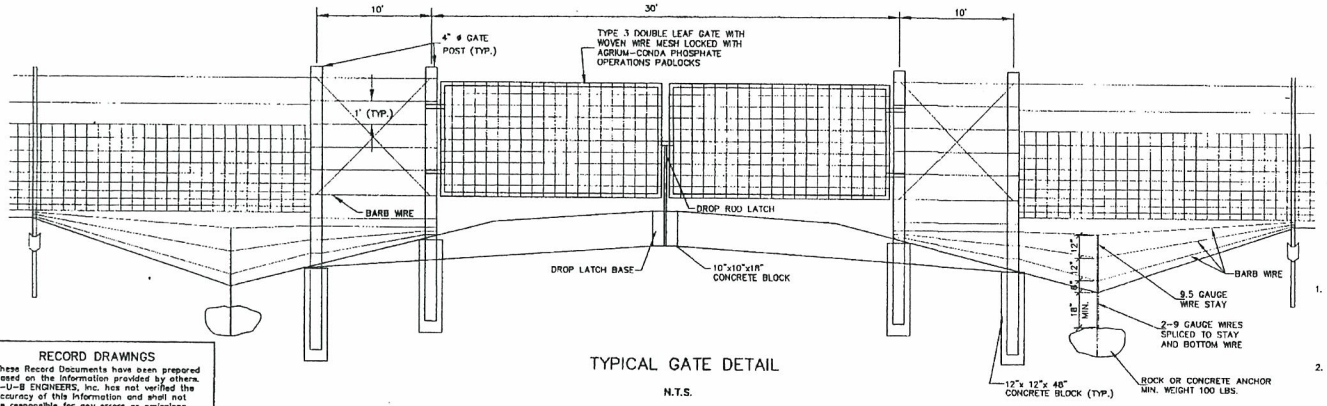
TYPICAL METAL CORNER BRACE

N.T.S.



TYPICAL FIRE BREAK DETAIL

N.T.S.



TYPICAL GATE DETAIL

N.T.S.

NOTES

1. GATE FRAMES SHALL BE FORMED WITH 1.315 INCH O.D. COLD ROLLED OR DRAWN GALVANIZED STEEL TUBING WITH A WALL THICKNESS OF 0.095 INCH OR WITH 1 INCH GALVANIZED STEEL PIPE. GALVANIZED WIRE MESH SHALL BE 12 1/2 GAGE MINIMUM. EACH GATE SHALL BE EQUIPPED WITH ONE STANDARD ADJUSTABLE DIAGONAL TRUSS ROD FROM CORNER TO CORNER. HINGES AND LATCHES SHALL BE OF GALVANIZED MALLEABLE IRON OR STEEL.
2. MESH WIRE SHALL REQUIRE 3 BANDS PER POST. BARB WIRE SHALL REQUIRE ONE WIRE CLAMP PER WIRE PER POST.

RECORD DRAWINGS

RECORD DRAWINGS

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J-U-B ENGINEERS, Inc.
151 NORTH THIRD
SUITE 102
POCATELLO, IDAHO 83201
PHONE: 208-232-1313
FAX: 208-232-3469

AGRIUM-CONDA PHOSPHATE OPERATIONS
1999 C-D LANDFILL PROJECT

FENCING AND FENCE DETAILS

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NO.	REVISION DESCRIPTION	BY	APP.	DATE

DRAWN BY: LDW
DESIGN ITC: AMJ
CHECKED BY: SFF
ARCHIVE LOCALE: 0000521-11
PROJECT NO. 11439
ACAD PLOT SCALE: 1=5
1 ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY
SCALE OF SHEET
HOR SCALE: AS SHOWN
VER SCALE: NONE

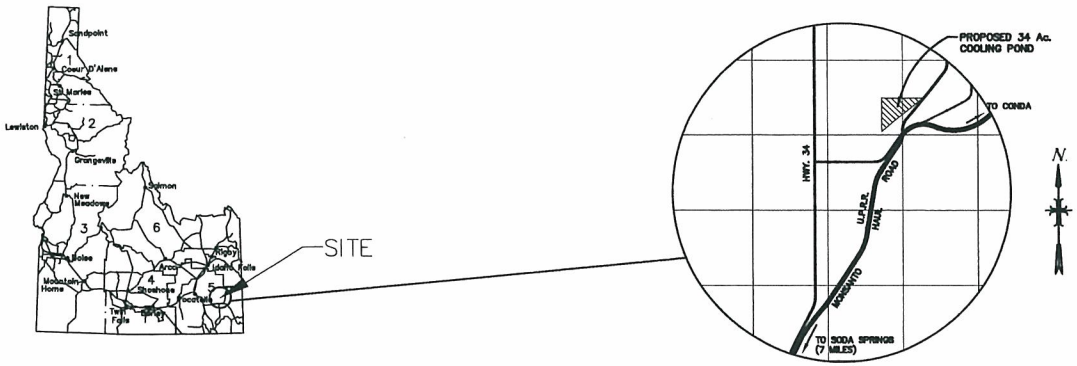
SHEET 11 OF 11

09-01-121

NUW 004715

PLANS

NU–WEST INDUSTRIES, INC.
POND LINER PROJECT
CONDA, IDAHO



VICINITY MAP

INDEX OF SHEETS

SHEET	DESCRIPTION
L1	TITLE SHEET
L2	GENERAL SITE PLAN
L3	POND CROSS SECTIONS
L4	LINER DETAILS
L5	LINER DETAILS

ENGINEER:

J–U–B ENGINEERS, Inc.
Engineers Surveyors Planners
250 So. Beechwood Avenue
Suite 201
Boise, Idaho 83709

RECORD DOCUMENTS
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OWNER:

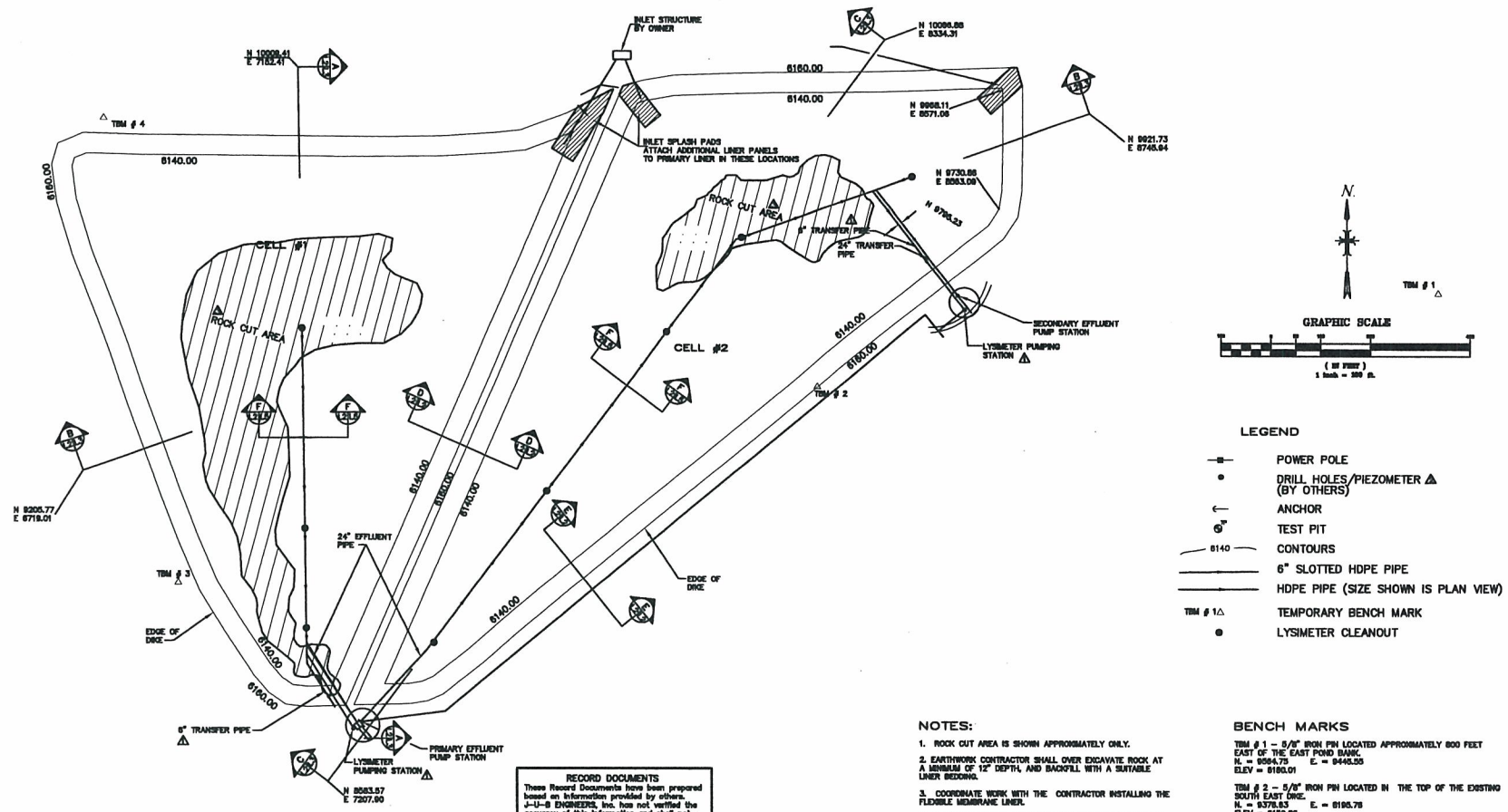
NU–WEST INDUSTRIES, INC.
3010 CONDA ROAD
SODA SPRINGS, IDAHO 83276

DWG #09–01–214
RECORD DRAWINGS

07/09/09/16:48
PLT. SCALE: 1=1

P:\DWGS\DRAWINGS\09- GENERAL PLANT OFFSITES\01\09-01-214.dwg, 7/5/2009 4:03:37 PM, Glowry

NUW 004716



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NOTES:

1. ROCK CUT AREA IS SHOWN APPROXIMATELY ONLY.
2. EARTHWORK CONTRACTOR SHALL OVER EXCAVATE ROCK AT A MINIMUM OF 12" DEPTH, AND BACKFILL WITH A SUITABLE LINER BEDDING.
3. COORDINATE WORK WITH THE CONTRACTOR INSTALLING THE FLEXIBLE MEMBRANE LINER.
4. SEE SHEETS L4 AND L5 FOR LINER INSTALLATION DETAILS.
5. CONTRACTOR SHALL RETAIN AND PROTECT ALL TBM CONTROL POINTS.
6. SEE PROJECT SPECIFICATIONS WHICH ACCOMPANY THESE PLANS.

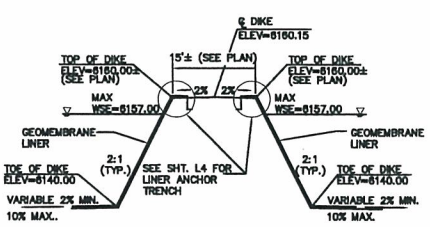
BENCH MARKS

TBM # 1 – 5/8" IRON PIN LOCATED APPROXIMATELY 800 FEET EAST OF THE EAST POND BANK.
N. = 9564.75 E. = 9445.53
ELEV = 6160.01

TBM # 2 – 5/8" IRON PIN LOCATED IN THE TOP OF THE EXISTING SOUTH EAST DIKE.
N. = 9376.53 E. = 6195.78
ELEV = 6156.62

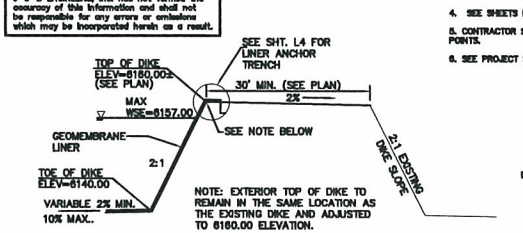
TBM # 3 – 5/8" IRON PIN LOCATED IN THE TOP OF THE EXISTING WEST DIKE.
N = 8960.10 E = 6609.45
ELEV = 6159.64

TBM # 4 – 5/8" IRON PIN LOCATED IN THE TOP OF THE NORTH DIKE NEAR THE WEST END.
N = 8908.32 E = 6762.84
ELEV = 6159.47



SECTION D L2 L2

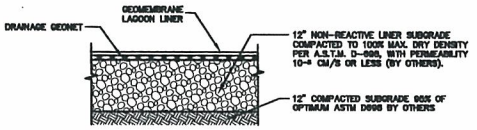
TYPICAL CENTER MEDIAN DIKE SECTION



NOTE: EXTERIOR TOP OF DIKE TO REMAIN IN THE SAME LOCATION AS THE EXISTING DIKE AND ADJUSTED TO 6160.00 ELEVATION.

SECTION E L2 L2

TYPICAL EXTERIOR DIKE SECTION



TYPICAL LAGOON LINER CROSS SECTION
NOT TO SCALE

DWG #09-01-215

RECORD DRAWING

J-U-B ENGINEERS, Inc.
250 South Beechwood Avenue
Suite 201
Boise, Idaho
83709-0944
Phone: 208-376-7330
Fax: 208-323-9339

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REVISION				
NO.	DESCRIPTION	BY	CHK	DATE
1	ISSUED FOR REVIEW	MB	SFT	7/26/95
2	ISSUED FOR CONSTRUCTION	MB	SFT	8/28/95
3	CONSTRUCTION RECORD DRAWINGS	MB	SFT	2/26/96
4	CONSTRUCTION RECORD DRAWINGS	MB	SFT	2/26/96

NU-WEST INDUSTRIES, INC.
POND LINER PROJECT
CONDA, IDAHO
GENERAL SITE PLAN

PLOT DATE: 04/11/96/14:48
CAD DWG: 18968202
PLOT SCALE: 1 = 100
DWG. NO. 9950607-02
DATE: JUNE, 1995
DRAWN BY: MJB
DESIGN BY: LDV
CHECKED BY: SFT
HOR SCALE: 1" = 100'
VER SCALE: NA
SHEET L2 OF L5

P:\DWGS\DRAWINGS\09- GENERAL PLANT OFFSITES\01\09-01-215.dwg, 2/5/2009 3:50:46 PM, GLOWY

NUW 004717

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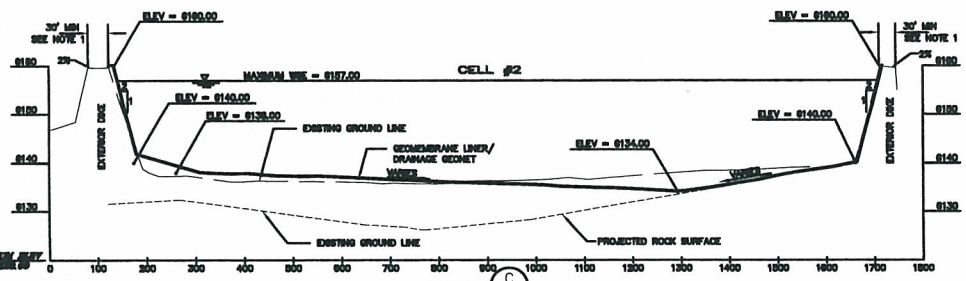
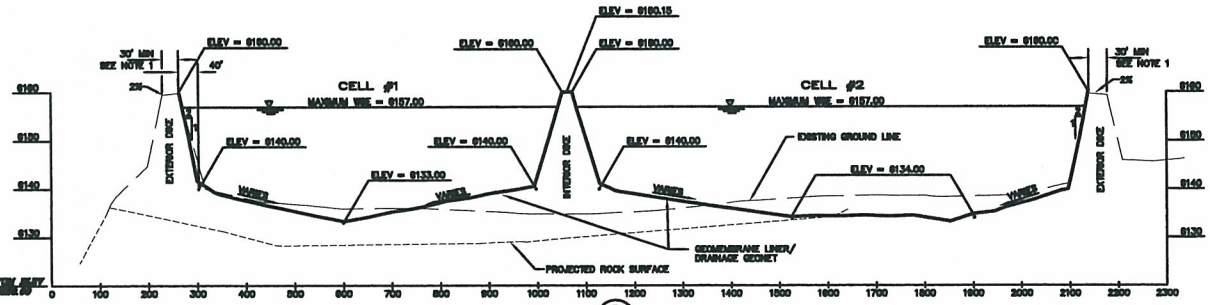
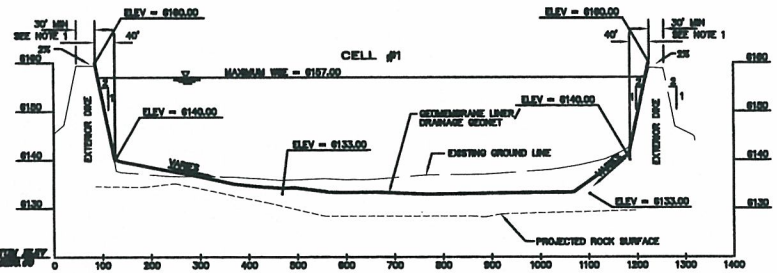


SECTION C L3 L4



SECTION B L3 L4



SECTION A L3 L4

DWG # 09-01-216

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NOTES:

1. ALL EXTERIOR DIKES SHALL BE CONSTRUCTED IN THE SAME LOCATION AS THE EXISTING DIKE WITH THE GRADE ADJUSTED TO 6160.00 AT THE TOP INTERIOR EDGE OF DIKE. ALL EXTERIOR DIKES SHALL HAVE A MINIMUM TOP WIDTH OF 30 FEET WITH A 2% SLOPE TO THE EXTERIOR OF THE DIKE. IN LOCATIONS WHERE THE EXISTING DIKE IS LESS THAN 30 FEET IN WIDTH IT SHALL BE EXTENDED TO 30 FEET ON A 2% SLOPE AND THEN ON A 2:1 SLOPE TO EXISTING GROUND. IN LOCATIONS WHERE THE EXISTING DIKE IS WIDER THAN 30 FEET THE 2% TOP SLOPE SHALL BE EXTENDED TO THE EXTERIOR DIKE FACE TO ALLOW FOR DRAINAGE.
2. ALL SLOPES FROM THE TOE OF DIKE TO THE POND BOTTOM SHALL HAVE A MINIMUM SLOPE OF 2% AND A MAXIMUM SLOPE OF 10%.
3. SEE SHEET L2 FOR TYPICAL EXTERIOR AND INTERIOR DIKE CROSS SECTIONS.
4. ROCK SURFACE PROFILE IS A PROJECTION ONLY – BASED ON GEOTECHNICAL INVESTIGATION PROVIDED BY HOWARD CONSULTANTS, INC.

RECORD DRAWING

J-U-B Engineers Surveyors Planners

J-U-B ENGINEERS, Inc.
800 South Greenwood Avenue
Suite 201
Boise, Idaho
83705-5934
Phone: 208-336-7233
Fax: 208-336-4338

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REVISION	

NU-WEST INDUSTRIES, INC.
POND LINER PROJECT
CONDA, IDAHO
POND CROSS SECTIONS

PLOT DATE: 2/5/2009
CAD FILE: 1090001
DWG SCALE: 1" = 100'
DATE: 12/29/2008
DRAWN BY: TJC
CHECKED BY: TJC
HOR SCALE 1" = 100'
VER SCALE 1"=10'

SHEET L3 / L5

NUW 004718

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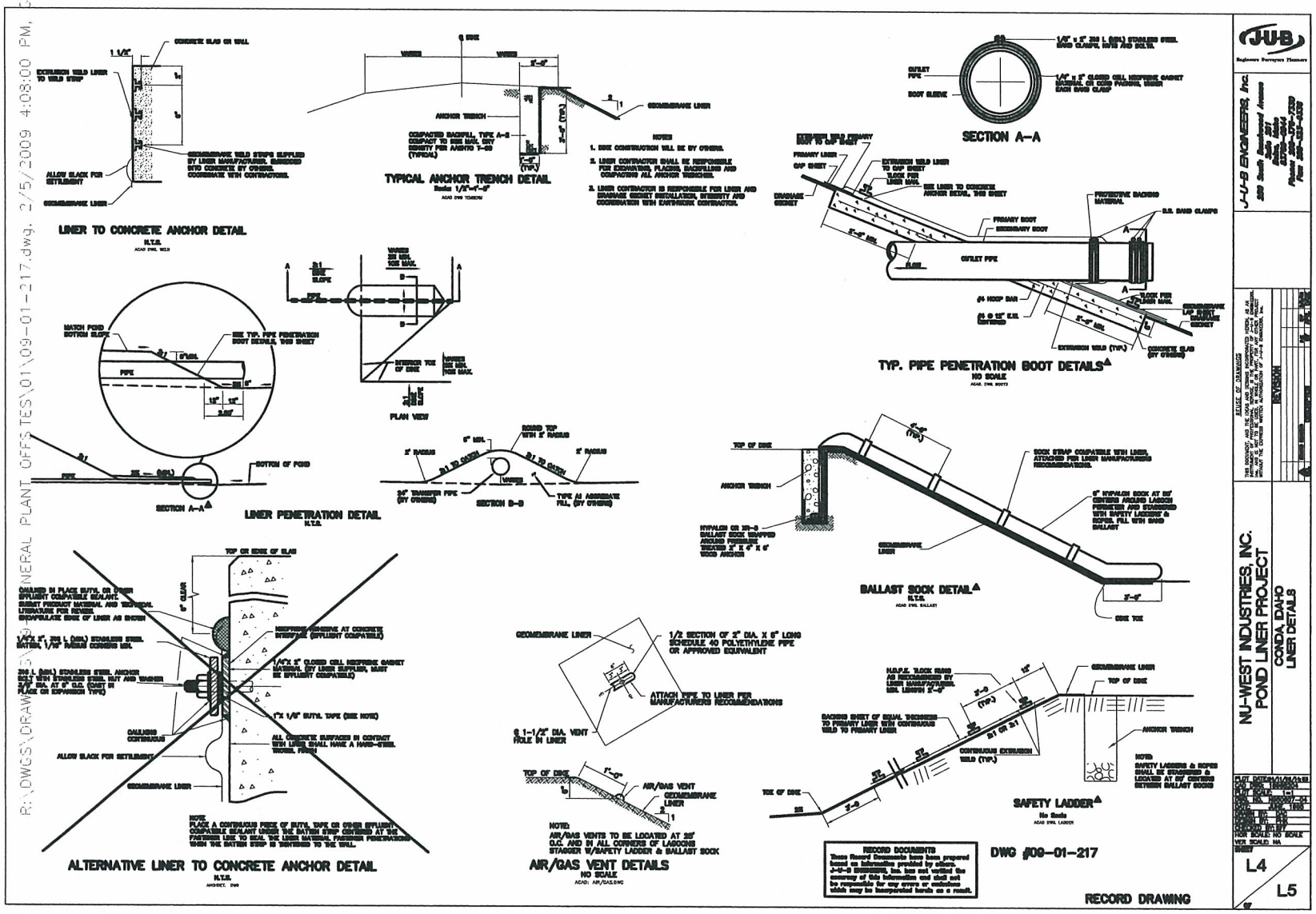
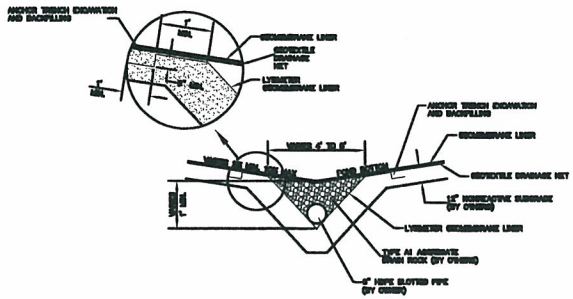
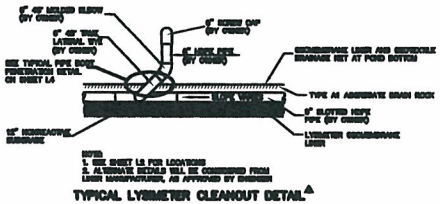




SECTION F/L5 L5 ▲

TYPICAL LYSIMETER



NOTES
1. SEE SHEET L5 FOR LOCATIONS
2. ALTERNATE DETAIL WILL BE CONSTRUCTED FROM LINER MANUFACTURER, AS APPROVED BY ENGINEER

TYPICAL LYSIMETER CLEANOUT DETAIL ▲

N.T.S.

DWG #09-01-218

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Engineers Surveyors Planners
200 South Beechwood Avenue
Suite 201
Boise, Idaho
83709-0944
Phone 208-377-7900
Fax 208-377-7909

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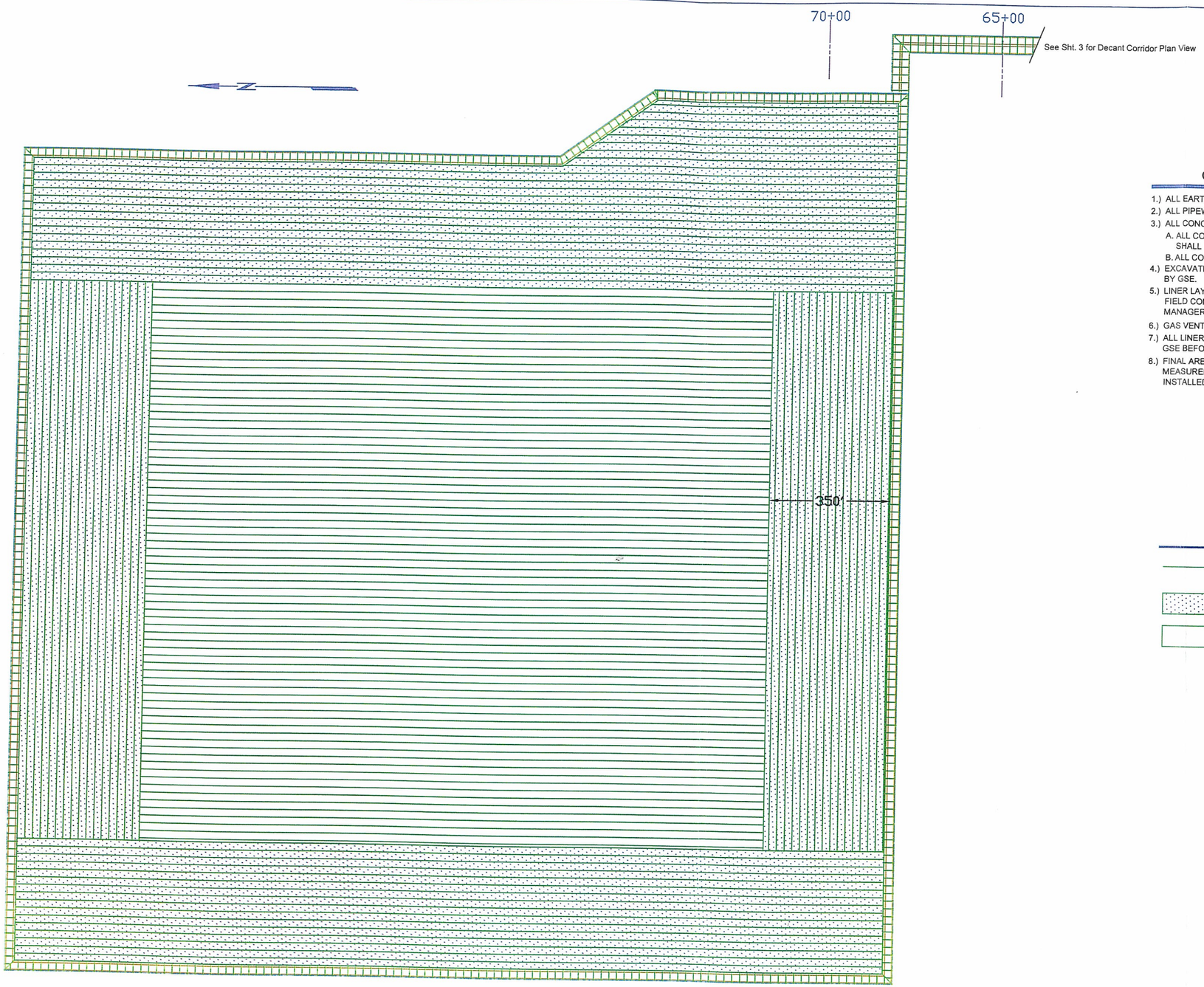
REVISION		

NU-WEST INDUSTRIES, INC.
POND LINER PROJECT
CONDA, IDAHO
LINER DETAILS

PLOT DATE 01/09/2018
DRAWN BY
DESIGNED
CHECKED
APPROVED
SCALE 1=1
VER SCALE NA
HOR SCALE NA

L5
L5

515043/Sht 1/Rev 1



GENERAL NOTES

1.) ALL EARTHWORK BY OTHERS.
2.) ALL PIPEWORK BY OTHERS.
3.) ALL CONCRETE WORK BY OTHERS.
   A. ALL CONCRETE CORNERS IN CONTACT WITH LINER SHALL BE CHAMFERED TO A MINIMUM OF 1" SQUARE.
   B. ALL CONCRETE SHALL BE STEEL TROWEL FINISHED.
4.) EXCAVATION AND BACKFILL OF ANCHOR TRENCH BY GSE.
5.) LINER LAYOUT SHOWN MAY VARY TO ACCOMMODATE FIELD CONDITIONS. (TO BE DETERMINED BY GSE SITE MANAGER WITH APPROVAL OF ENGINEER.)
6.) GAS VENTING BY GSE NOT REQUIRED.
7.) ALL LINER DESIGN CHANGES TO BE REVIEWED BY GSE BEFORE INITIATING CONSTRUCTION.
8.) FINAL AREA TO BE DETERMINED PER GSE FIELD MEASUREMENTS AND SHALL INCLUDE THE LINER INSTALLED IN THE ANCHOR TRENCH.

LEGEND

- WELDED SEAMS
- TEXTURED LINER
- SMOOTH LINER

NUW 004721

See Sht 2 for Typical sections & Details

Plan View

Scale 1" = 140'

NOTE: *PANEL LAYOUT SHOWN IN PLAN VIEWS ARE CONCEPTUAL ONLY AND ARE SUBJECT TO CHANGES PRIOR TO OR DURING INSTALLATION AT THE DISCRETION OF THE GSE SITE MANAGER WITH APPROVAL OF THE ENGINEER*

GSE Lining Technology, Inc.
18103 Gundle Road
Houston, Texas 77073
800-435-2008 281-443-8564

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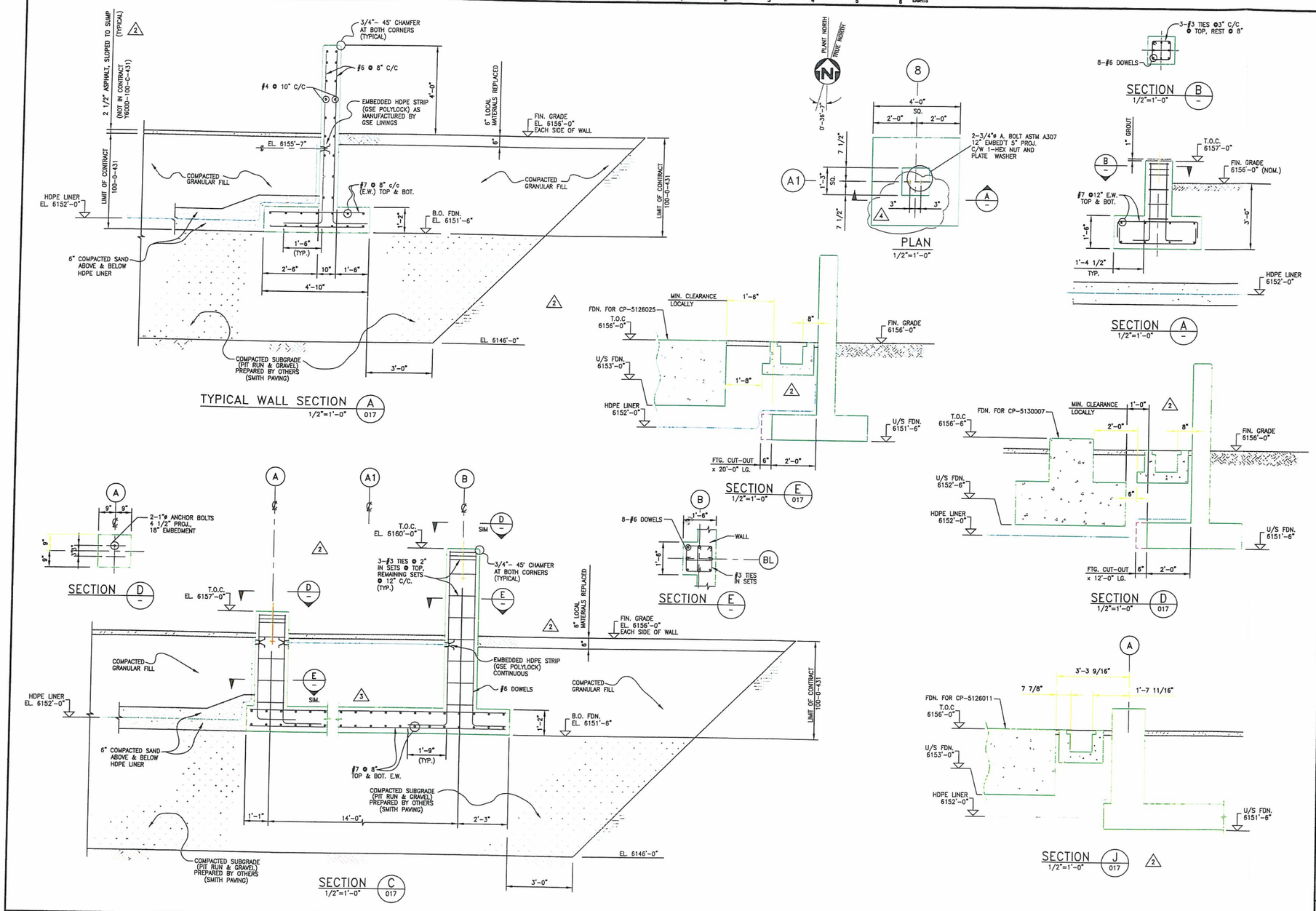
REV	DATE	DESCRIPTION	BY
1	[illegible]	Revise direction of some seams	Don
2			
3			

Agrium Conda
Conda Phosphate Gypsum Stack Expansion
Soda Springs Idaho

Proposed Liner Layout
Agrium # 09-02-022

SCALE	DATE	REVISION NO.
Noted	03/10/05	1

DWG BY	PROJECT MANAGER	SHT	DWG NO
Don	DG	1 of 3	515043A



NUW 004722

REV.	REVISION DESCRIPTION	DATE	DRAWN BY	DESIGNED BY	DWG. CHECK	DESIGN CHECK	LEAD ENG./ DEPT. MGR.	P. ENG./ PROJ. MGR.	NO.	DWG. NO.	REFERENCE DRAWINGS
5	ISSUED FOR REFERENCE-OXIDATION AREA	01/04/12							8		
4	ANCHOR BOLT PATTERN REVISED AT PIER GRID 8/A.1	01/01/19	AEG	AEG	AEG	AEG	AEG	LAF	7		
3	PEDESTAL DELETED	00/10/11	NB	AEG	RB	AEG	AEG	LAF	6		
2	SECT. "B" TRANSFERED TO SHT. 2 & REVISED AS NOTED	00/09/26	AGE	CCP	RB	CCP	RB	LAF	5		
1	SECT'S. & DETS. FROM DWG. 26-03-017 ADDED & REV'D. AS NOTED	00/08/16	AGE	SDG	RB	YB	RB	LAF	4		
0	ISSUED FOR CONSTRUCTION	00/07/25	AGE	SDG	SDG	YB	AEG	GMC	3		
									2		
									1	26-03-017	CONTAINMENT WALL @ TANK FARM-PLAN & SECTION
									0		

ENGINEERING REVIEW		
P. ENG./ PROJ. MGR.	LAF	00/08/15
LEAD ENG./ DEPT. MGR.	GMC	00/07/27
DESIGN CHECK	RB	00/08/16
DWG. CHECK	SDG	00/07/27
DESIGNED BY	SDG	00/07/21
DRAWN BY	AGE	00/07/21

CLIENT APPROVAL
BY DATE

AGRA MONENCO DWG. NO. Y600D-200-9-003
PROJECT NO. Y600D
SCALE AS NOTED

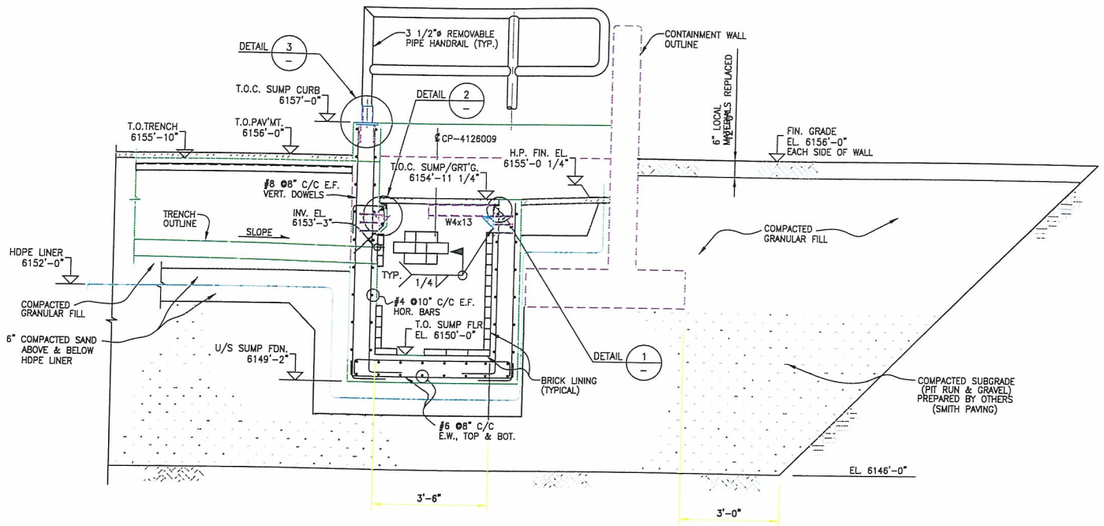
NU-WEST INDUSTRIES INC.
NU-WEST INDUSTRIES INC. 3010 CONDA ROAD SODA SPRINGS, ID 83276

AGRA Monenco
ENGINEERING GLOBAL SOLUTIONS

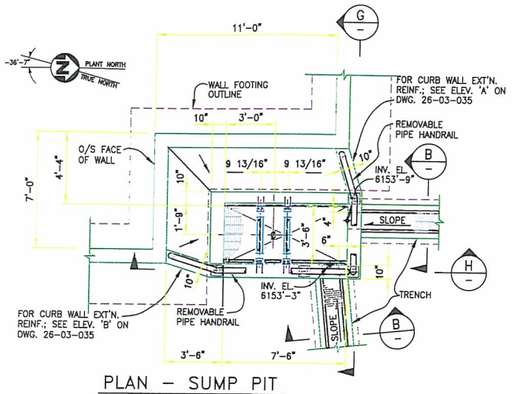
CPO EXPANSION PROJECT
GRADE CONTROL
CONTAINMENT WALL @ TANK FARM
SECTIONS AND DETAILS - SHT. 1

DRAWING NO. 26-03-024
REV. 5

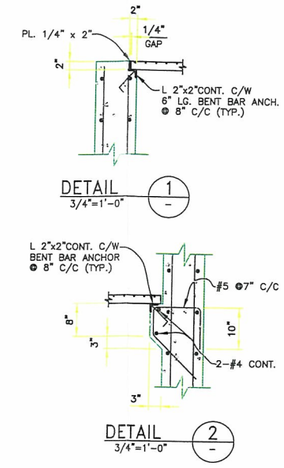
CAD FILE NAME: G:\Y600D\CAD\CIV\2009003-5.dwg
LAST UPDATE: 01/04/12 08:00

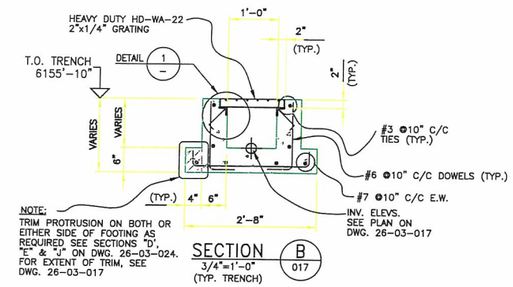


SECTION G
1/2"=1'-0"

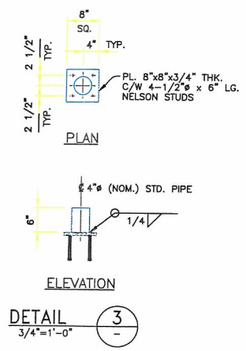


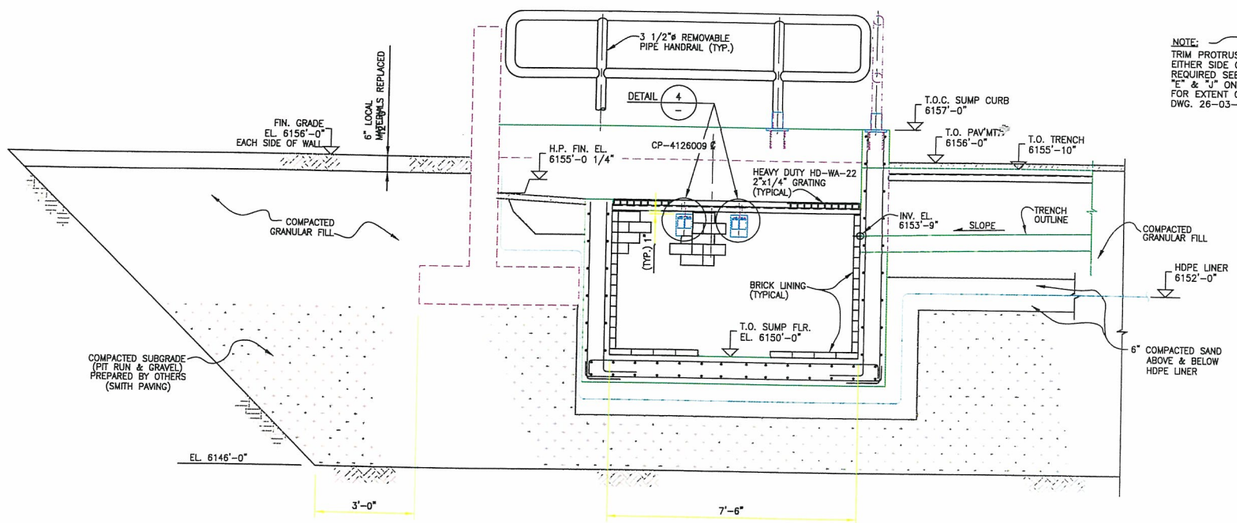
PLAN - SUMP PIT
(CP-1730001) 1/4"=1'-0"





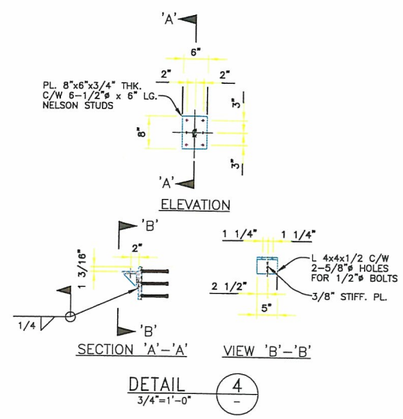
SECTION B
3/4"=1'-0"
(TYP. TRENCH)





SECTION H
1/2"=1'-0"

NOTE:
FOR CALL-OFFS NOT SHOWN, SEE SECTION 'G'



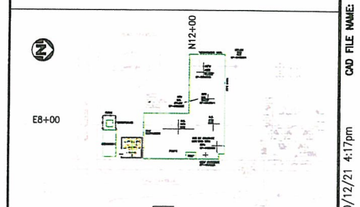
ACID BRICK LINER NOTES:

1. ACID BRICK SHALL CONFORM TO THE GENERAL REQUIREMENTS OF ASTM C-279. THE BRICK SHALL BE "KITTANING DURO" TYPE 3 9"x4 1/2"x2 1/2" OR APPROVED EQUAL.
   THE ACID BRICK SHALL BE SET ON 1/8" THICK FURAN MORTAR SETTING BED WHICH HAS BEEN TROWELED ONTO THE WATERPROOFING MEMBRANE. GROUT JOINTS SHALL BE AT LEAST 1/8" FILLED WITH FURAN GROUT.
   CUTS SHALL BE BY DIAMOND SAW ONLY.
   GROUT JOINTS SHALL BE FULL AND FLUSH WITH THE SURFACE OF THE BRICK.
2. WATERPROOFING MEMBRANE SHALL CONSIST OF 'ATLASTIC 40' 3 PLY ASPHALTIC MEMBRANE AS MANUFACTURED BY ATLAS MINERALS, OR APPROVED EQUAL. ASPHALTIC MEMBRANE SHALL BE APPLIED AT THE BASE & WALLS.
3. SETTING AND GROUT MATERIAL SHALL BE CARBO-ALKOR MORTAR OR APPROVED EQUAL.
4. THE MATERIAL SHALL BE STORED IN A DRY LOCATION AND SHALL BE MOVED TO THE WORK AREA NOT LESS THAN 24 HOURS PRIOR TO SETTING TO ENSURE TEMPERATURE EQUILIBRIUM BETWEEN 70°F AND 80°F. THE CONCRETE FLOOR TEMPERATURE SHALL NOT BE BELOW 60°F DURING INSTALLATION.
5. THE INSTALLATION CONTRACTOR SHALL DEMONSTRATE PREVIOUS EXPERIENCE WITH THIS METHOD OF INSTALLATION FOR REVIEW BY THE OWNER.

2

NUW 004723

ISSUED FOR CONSTRUCTION



KEY PLAN
NTS

REV.	REVISION DESCRIPTION	DATE	DRAWN BY	DESIGNED BY	DWG. CHECK	DESIGN CHECK	LEAD ENG./ DEPT. MGR.	P. ENG./ PROJ. MGR.
2	ACID BRICK NOTES ADDED	00/12/21	FE					
1	SECT'S. & DETS. FROM DWG. 26-03-017 & 26-03-024 TRANSFERRED TO THIS DWG. AND PLAN, SECTIONS AND DETAILS ADDED	00/09/26	AGE	CCP	RB	CCP	RB	LAF

NO.	DWG. NO.	REFERENCE DRAWINGS
8		
7		
6		
5		
4		
3		
2	26-03-024	CONTAINMENT WALL @ TANK FARM- SECTIONS & DETAILS
1	26-03-017	CONTAINMENT WALL @ TANK FARM-PLAN & SECTION

ENGINEERING REVIEW		
P. ENG./ PROJ. MGR.	LAF	00/09/27
LEAD ENG./ DEPT. MGR.	RB	00/09/27
DESIGN CHECK	CCP	00/09/27
DWG. CHECK	RB	00/09/27
DESIGNED BY	CCP	00/09/27
DRAWN BY	AGE	00/09/20

CLIENT APPROVAL
BY DATE

AGRA MONENCO DWG. NO. Y600D-200-9-009
PROJECT NO. Y600D
SCALE AS NOTED

NU-WEST INDUSTRIES INC.
NU-WEST INDUSTRIES INC.
3010 CONDA ROAD SODA SPRINGS, ID 83276

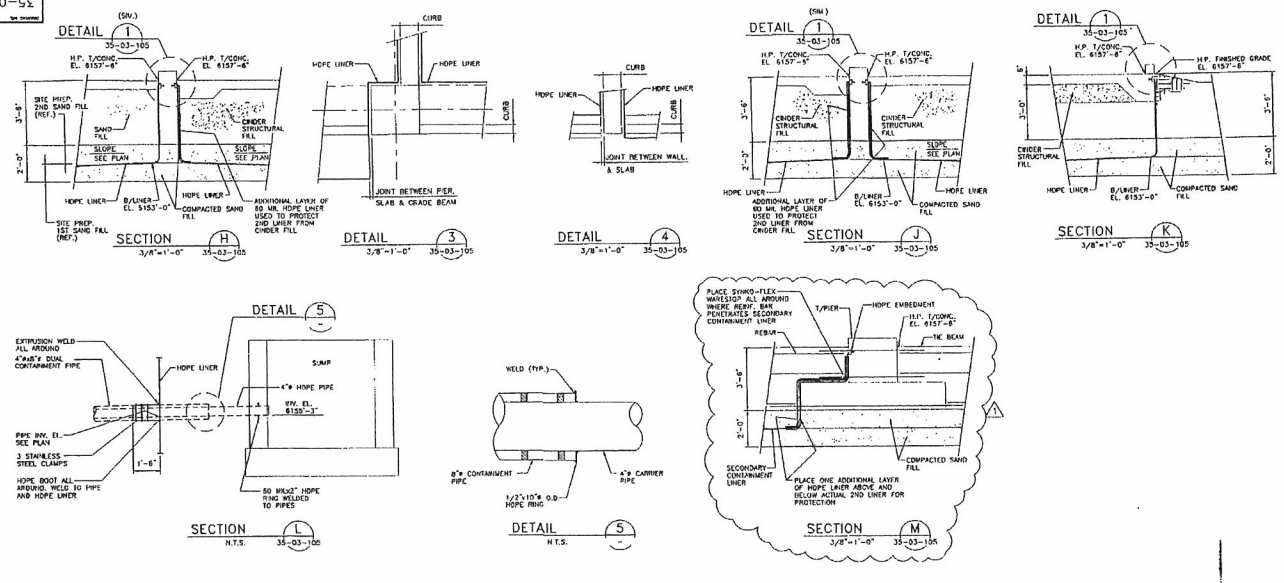
AGRA Monenco
ENGINEERING GLOBAL SOLUTIONS

CPO EXPANSION PROJECT
GRADE CONTROL
CONTAINMENT WALL @ TANK FARM
SECTIONS AND DETAILS - SHT. 2

DRAWING NO. 26-03-026
REV. 2

CAD FILE NAME: G:\Y600D\CAD\CIV\2009009-2.dwg
LAST UPDATE: 00/12/21 4:17pm

35-03-107



NOTES:

1. WORK THIS DRAWING WITH DRAWING 35-03-105.

REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
1		ADDED SECTION "M"	RFL	7-25-00	CLK			
0		APPROVED FOR CONSTRUCTION	RFL	ELK	7-7-00	ELK	WCS	

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APPROVED FOR CONSTRUCTION
E. KLABER 7-7-00
SIGNATURE DATE
APPROVED FOR CONSTRUCTION
W. STIERCH 7-7-00
SIGNATURE DATE
APPROVED FOR CONSTRUCTION
D. RAUPIGH 7-7-00
SIGNATURE DATE

PROJ. MGR. J. KORETCHKO
DESIGNER
DWG. LEAD E. KLABER
DRAWN BY J. JANNOTTA
DATE 6-21-00
CAD FILE 35031071.DWG

JACOBS ENGINEERING
Engineers and Constructors
P.O. Box 2008, Lakeland, Florida 33806-2008 Tel (863) 683-1551 Fax (863) 683-5123
P.O. Box 3000, Lakeland, Florida 33802 Tel (863) 683-5111 Fax (863) 683-5123

FMC CORPORATION
FES - Princeton NJ

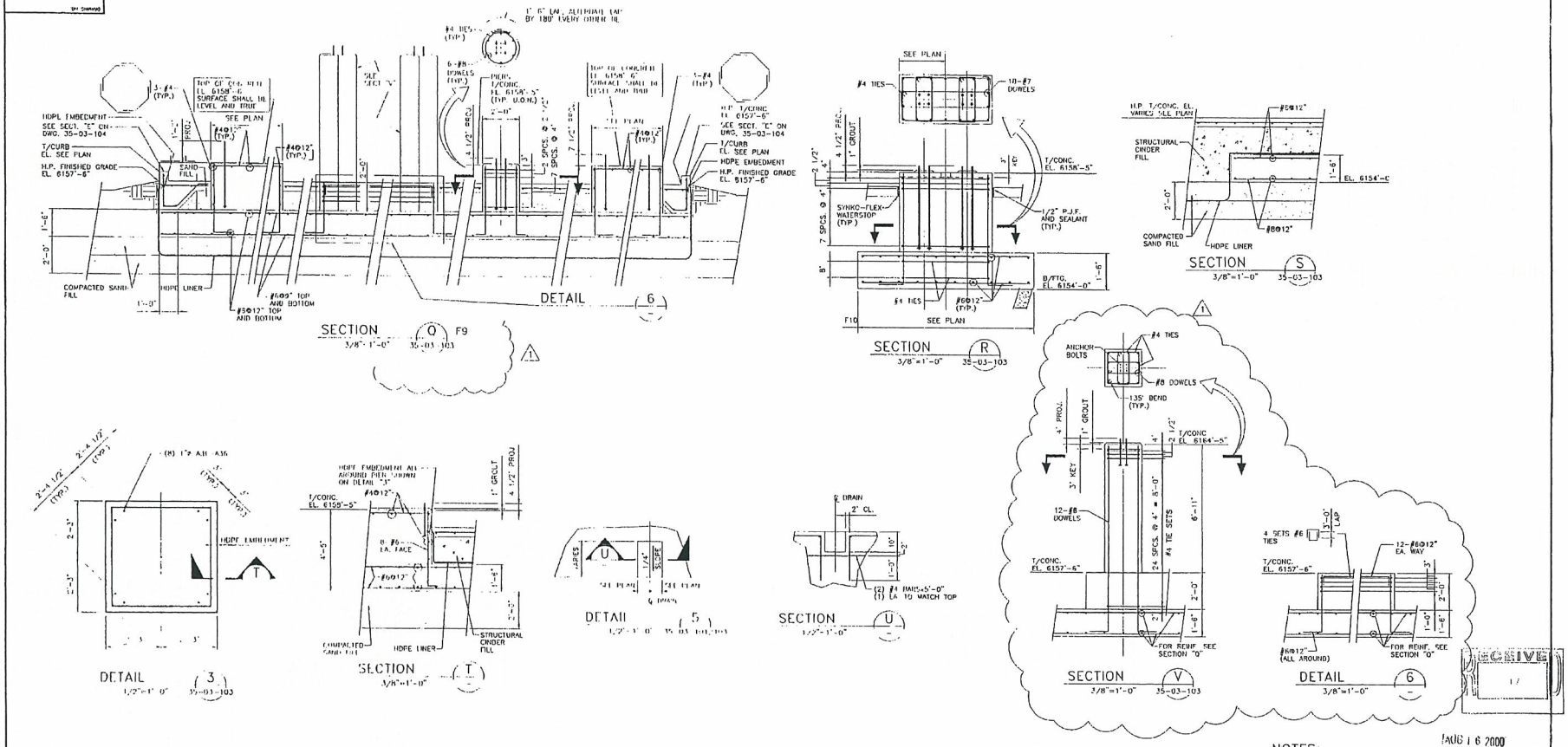
PURE PHOSPHORIC ACID PLANT
AT AGRIUM-CONDA PHOSPHATES
SULFIDING AREA - SECONDARY
CONTAINMENT LINER - SHEET 2

SCALE: AS NOTED | APPD. NO. 28-T424-10 | DRAWING NO. 35-03-107 | REV. 1

APPROVED FOR CONSTRUCTION
REVISED
DESTROY PREVIOUS PRINT
JUL 25 2000

NUW 004724

35-03-108



NOTES:
1. FOR NOTES SEE DRAWING 35-03-103.

JACOBS ENGINEERING
Engineers and Constructors

FMC CORPORATION
FES - Princeton, NJ

PURE PHOSPHORIC ACID PLANT
AT AGRIUM-CONDA PHOSPHATES
SULFIDING AREA - FOUNDATION
SECTIONS & DETAILS - SHEET 2

REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
1		ADDED SECTION "V" & DETAIL "6", REVISED SECT "Q"		ELK	8-15-00	ELK		
0		APPROVED FOR CONSTRUCTION	RFL	ELK	7-18-00	ELK	WCS	

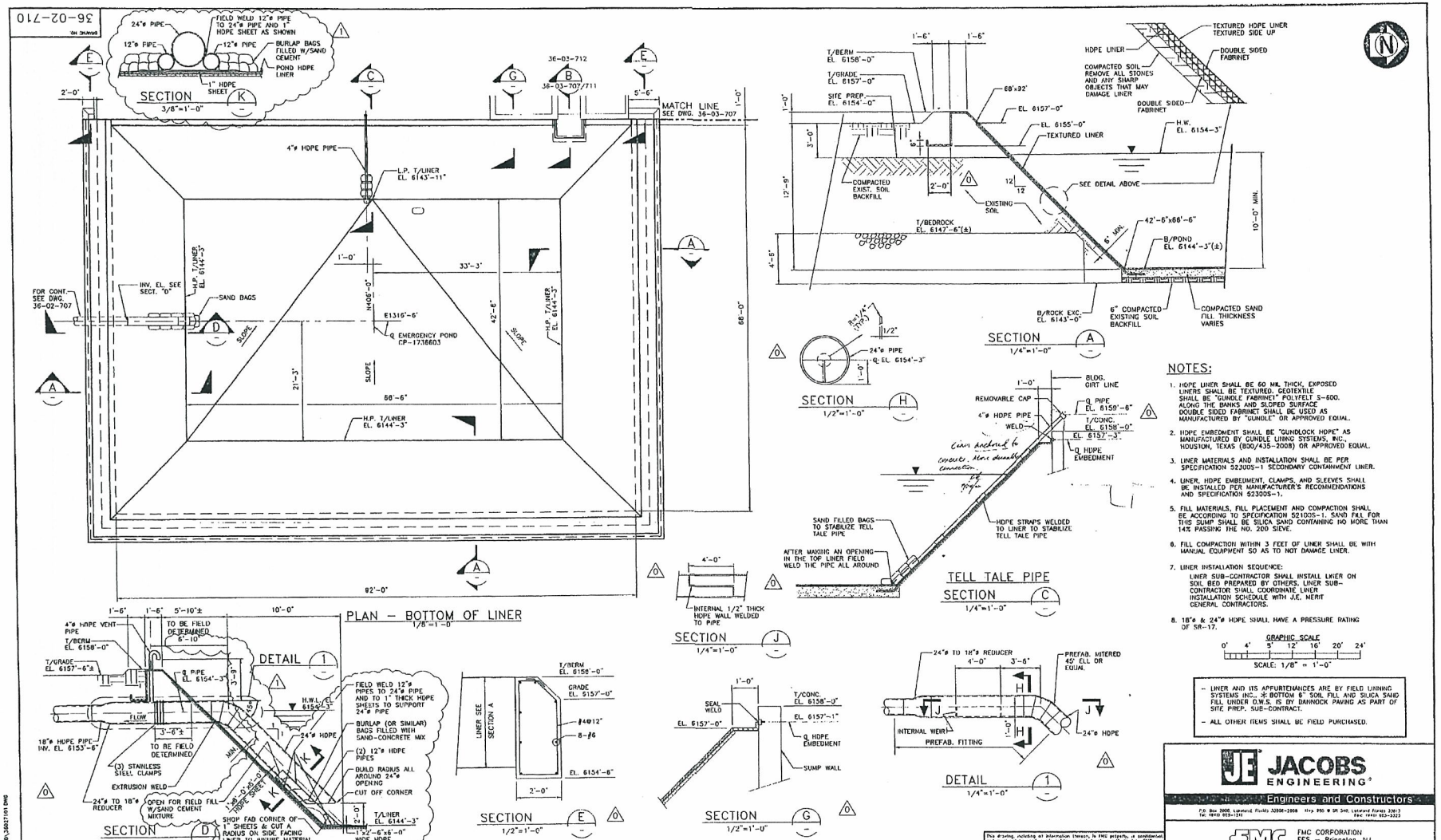
APPROVED FOR CONSTRUCTION: E. KLABER 7/18/00
APPROVED FOR CONSTRUCTION: W. STIEREN 7/18/00
APPROVED FOR CONSTRUCTION: D. RAIRIGH 7/18/00

DRAWN BY: J. KORETCHKO
CHECKED: [illegible]
DISP. LEAD: E. KLABER
ORIGINATOR: J. JANNOTTA
DATE: 6-26-00
CAD FILE: 35031081.DWG

SCALE	ORDER NO.	DRAWING NO.	REV.
AS NOTED	28-T424-10	35-03-108	1

AREA 1
APPROVED FOR CONSTRUCTION
REVISED
DESTROY PREVIOUS PRINT

NUW 004725



NOTES:

1. HDPE LINER SHALL BE 60 MIL THICK, EXPOSED LINERS SHALL BE TEXTURED. GEOTEXTILE SHALL BE "GUNDLE FABRINET" POLYFELT S-600. ALONG THE BANKS AND SLOPED SURFACE DOUBLE SIDED FABRINET SHALL BE USED AS MANUFACTURED BY "GUNDLE" OR APPROVED EQUAL.
2. HDPE EMBEDMENT SHALL BE "GUNDLOCK HDPE" AS MANUFACTURED BY GUNDLE LINING SYSTEMS, INC., HOUSTON, TEXAS (800/435-2008) OR APPROVED EQUAL.
3. LINER MATERIALS AND INSTALLATION SHALL BE PER SPECIFICATION 52300S-1 SECONDARY CONTAINMENT LINER.
4. LINER, HDPE EMBEDMENT, CLAMPS, AND SLEEVES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATION 52300S-1.
5. FILL MATERIALS, FILL PLACEMENT AND COMPACTION SHALL BE ACCORDING TO SPECIFICATION 52100S-1. SAND FILL FOR THIS SUMP SHALL BE SILICA SAND CONTAINING NO MORE THAN 14% PASSING THE NO. 200 SIEVE.
6. FILL COMPACTION WITHIN 3 FEET OF LINER SHALL BE WITH MANUAL EQUIPMENT SO AS TO NOT DAMAGE LINER.
7. LINER INSTALLATION SEQUENCE:
   LINER SUB-CONTRACTOR SHALL INSTALL LINER ON SOIL BED PREPARED BY OTHERS. LINER SUB-CONTRACTOR SHALL COORDINATE LINER INSTALLATION SCHEDULE WITH J.E. MERIT GENERAL CONTRACTORS.
8. 18"ø & 24"ø HDPE SHALL HAVE A PRESSURE RATING OF SR-17.

GRAPHIC SCALE
0' 4' 8' 12' 16' 20' 24'
SCALE: 1/8" = 1'-0"

- LINER AND ITS APPURTENANCES ARE BY FIELD LINNING SYSTEMS INC., & BOTTOM 6" SOIL FILL AND SILICA SAND FILL UNDER D.W.S. IS BY DANNOCK PAVING AS PART OF SITE PREP. SUB-CONTRACT.
- ALL OTHER ITEMS SHALL BE FIELD PURCHASED.

JACOBS ENGINEERING
Engineers and Constructors
P.O. Box 2008 Lakeland Florida 33806-2008 Hwy 995 @ SR 540 Lakeland Florida 33813
Tel: (863) 853-1241 Fax: (863) 853-3223

FMC CORPORATION
FES - Princeton, NJ

PURE PHOSPHORIC ACID PLANT
AT AGRIUM-CONDA PHOSPHATES
EMERGENCY POND
SECONDARY CONTAINMENT LINER

REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
1		MODIFIED CUT FLOW PIPE DETAILS	JFJ	RWD	6-13-03	ELK		
0		APPROVED FOR CONSTRUCTION	JFJ	RWD	4-11-00	ELK	WCS	

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APPROVED FOR CONSTRUCTION
E. KLABER 4-11-00
SIGNATURE DATE
APPROVED FOR CONSTRUCTION
W. STEREN 4-11-00
SIGNATURE DATE
APPROVED FOR CONSTRUCTION
SIGNATURE DATE

PROJ MGR: J. KORETCHKO
CHECKER: R. DAVIS
DSN LEAD: E. KLABER
DRAWN BY: S. PATIL
DATE: 10/28/99
CAD FILE: 36027101.DWG

SCALE	ORDER NO	DRAWING NO.	REV.
AS NOTED	28-T424-10	36-02-710	1

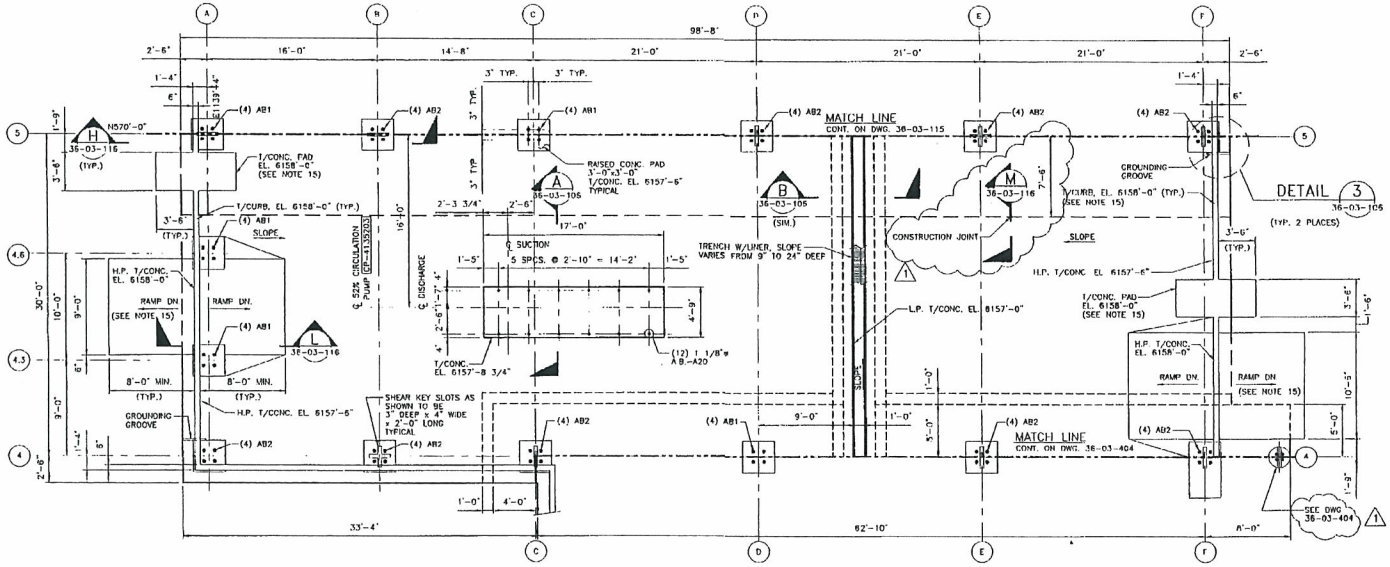
JUN 14 2000 APPROVED FOR CONSTRUCTION
REVISED
DESTROY PREVIOUS PRINT

RECEIVED JUN 16 2000

NUW 004726

36-03-104

DRAWING NO



LEGEND:

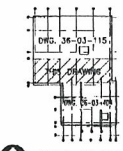
AB1 INDICATES 1 1/4"ø A.B.-A23
WITH 5 1/4" PROJECTION.

AB2 INDICATES 1 1/4"ø A.B.-A24
WITH 6" PROJECTION.

NOTES:

1. FOR CONCRETE GENERAL NOTES SEE DWG. 36-04-701.
2. WORK DRAWINGS 36-03-104, 36-03-106, 36-03-115, 36-03-116 & 36-03-404 TOGETHER.
3. PROCESS AREAS: 02 (THIS DRAWING)
   03 (DWG. 36-03-115)
   05 (DWG. 36-03-404)
4. REBAR SHIPMENTS SHALL BE COLOR CODED RED.
5. REFER TO THE FOLLOWING DRAWINGS FOR EMBEDMENTS AND PENETRATIONS BEFORE STARTING CONSTRUCTION.
   SECONDARY CONTAINMENT LINER & UNDERGROUND PIPING:
   DWGS. 36-03-108, 36-03-112, 36-03-405 AND 36-03-504.
   UNDERGROUND GROUNDING:
   DWGS. 36-07-115, 36-07-122, 36-07-411, 36-07-090, 36-07-091 & 36-07-092.
6. FOR SOIL COMPACTION REQUIREMENTS REFER TO NOTES ON DWG. 36-03-108.
7. FLOORS AND ALL INTERIOR SURFACES OF OF EXTRACTION AREA SUMP SHALL BE CURED USING POLYVINYL SHEETS AND HEATING BLANKETS. CURING COATINGS, HARDENERS OR SEALANTS SHALL NOT BE USED.
8. EXTRACTION AREA SUMP COATING SHALL BE "PENNTROWEL" VE L/F, 3/16" THICK.
9. EXTRACTION AREA SUMP GRATING SHALL BE GALVANIZED STEEL.
10. ACID SEWER SUMP AND TRENCH LINER SHALL BE HDPE LINER IN ACCORDANCE WITH SPECIFICATION 571005-1 AND SHALL BE PREFABRICATED BY ATLAS MINERALS AND CHEMICALS, INC.
11. FRP GRATING FOR THE ACID SEWER SUMP AND TRENCH SHALL BE "VI-CORR" BY FIBERGRATE OR APPROVED EQUAL.
12. SPLICE LENGTH FOR REBARS SHALL BE:
    #4 REBAR: 1'-7" (TOP BARS: 2'-0")
    #6 REBAR: 2'-4" (TOP BARS: 3'-0")
    #8 REBAR: 3'-3" (TOP BARS: 4'-3")
    #9 REBAR: 4'-2" (TOP BARS: 5'-5")
    NO LAP SPLICES TO PROVIDED FOR #14 BARS.
    NO MORE THAN 50% OF REBARS SHALL BE SPLICED AT ONE PLACE. SPLICE LOCATIONS SHALL BE KEPT TO A MINIMUM.
13. EMBEDDED STEEL SHALL BE GALVANIZED.
14. ADHESIVE WATERSTOP SHALL BE "SYIKO-FLEX" ADHESIVE WATERSTOP AS MANUF. BY SYIKO-FLEX PRODUCTS OR APPROVED EQUAL.
15. ALL CURBS, STAIR LANDING PADS, INTERIOR AND EXTERIOR DOOR PADS AND EXTERIOR RAMPS SHALL BE CAST LATER. FOR INTERIOR RAMPS SEE SECTION "E", DWG. 36-03-116.

GRAPHIC SCALE
0' 2' 4' 6' 8' 12' 16'
SCALE: 3/16" = 1'-0"



KEY PLAN

MAR 14 2000

JACOBS ENGINEERING
Engineers and Constructors
P.O. Box 2008, Lakeland Florida 33803-2008 Hwy 655 @ TR 540, Lakeland Florida 33813
Tel: (863) 853-1511 Fax: (863) 425-5323

FMC CORPORATION
FES - Princeton, NJ

PURE PHOSPHORIC ACID PLANT
AT AGRIUM-CONDA PHOSPHATES
52% CONCENTRATION AREA
MAT FOUNDATION PLAN - SHEET 2

SCALE	ORDER NO	DRAWING NO.	REV.
3/16"=1'-0"	28-T424-10	36-03-104	1

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APPROVED FOR CONSTRUCTION	
E. KLABER	2-28-00
SIGNATURE	DATE
APPROVED FOR CONSTRUCTION	
W. STIEREN	2-28-00
SIGNATURE	DATE
APPROVED FOR CONSTRUCTION	
W.B. CHAMBLESS	2-28-00
SIGNATURE	DATE

PROJ. MGR. J. KORETCHKO
DRFTR. K. LEHMKER
DSP. LEAD E. KLABER
DESIGNATOR. B. AIKENS
DATE. 12/14/99
CAD FILE: 36031041.DWG

REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
1		ADDED CONSTRUCTION JOINT AND REVISED DWG. NO.	EK	SSP	3-13-00	EK		
0		APPROVED FOR CONSTRUCTION	SSP	KAL	2-28-00	ELK		

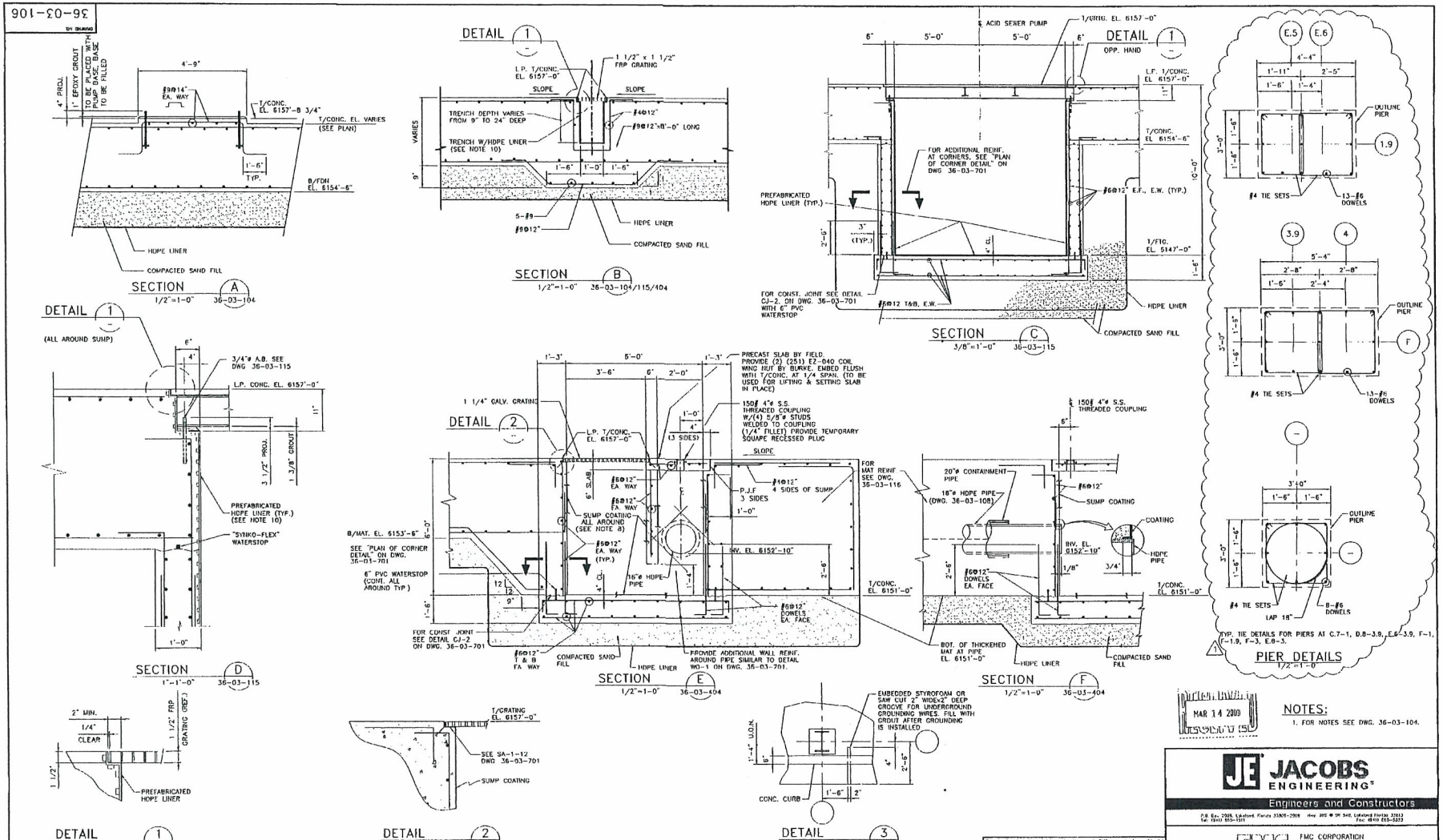
(SHT)

J:\FMC\28T424\10\CADD\DWG\36\03\36031041.DWG
REV 03/30/99 11:58 PM (EF)

REVISED
DESTROY PREVIOUS PRINT
A 6 A 2

NUW 004727

36-03-106



NOTES:

1. FOR NOTES SEE DWG. 36-03-104.

MAR 14 2000

JACOBS ENGINEERING

Engineers and Constructors

FMC CORPORATION
FES - Princeton, NJ

PURE PHOSPHORIC ACID PLANT
AT AGRIUM-CONDA PHOSPHATES
ACID SEWER/TRENCH
SECTIONS & DETAILS

REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
1		ADD 3 PIER DETAILS	SSP	SSP	7 11 00	ELK		
0		APPROVED FOR CONSTRUCTION	SSP	KAL	2-28-00	ELK		

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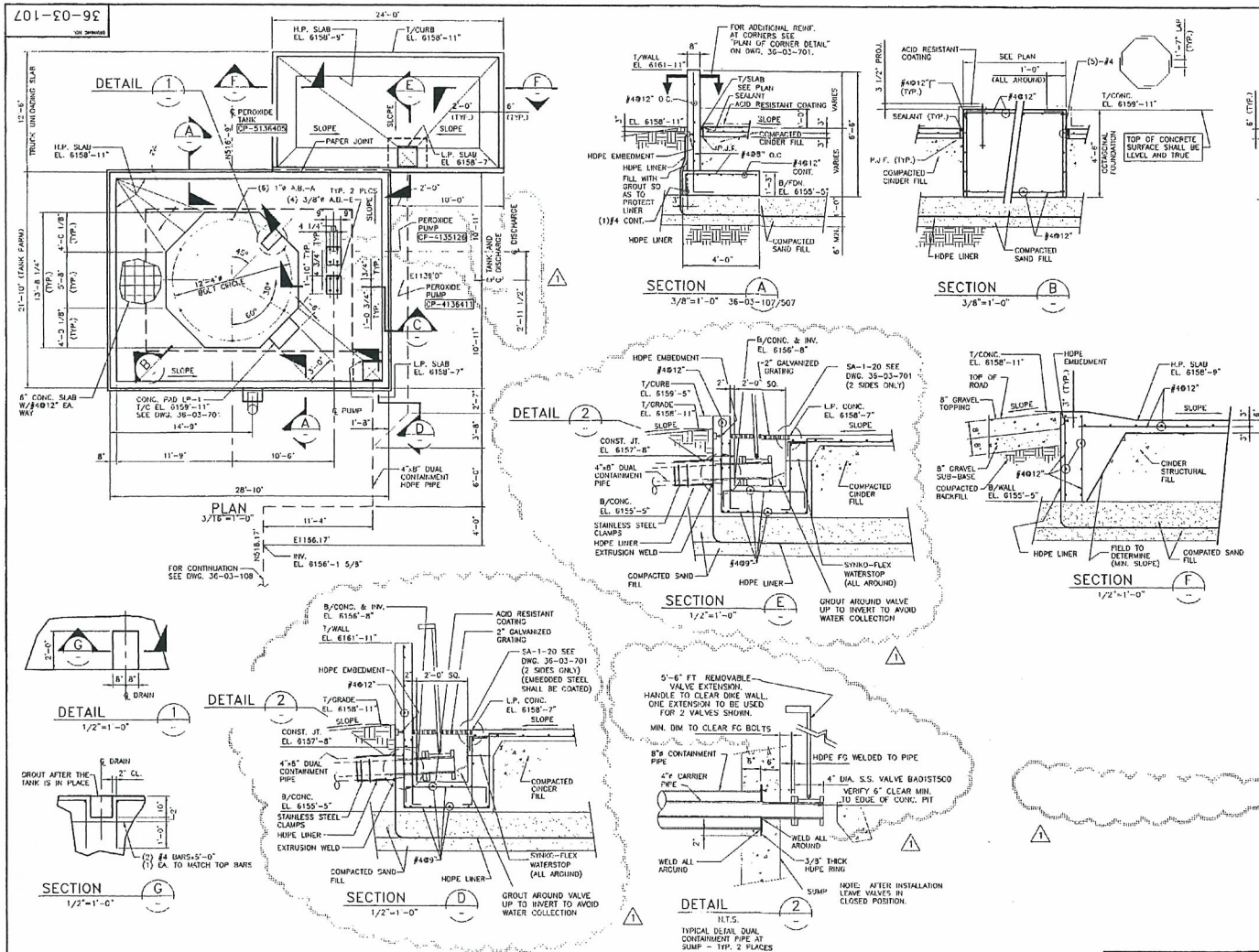
APPROVED FOR CONSTRUCTION: E. KLABER 2-28-00 (SIGNATURE / DATE)
APPROVED FOR CONSTRUCTION: W. STIEREN 2-28-00 (SIGNATURE / DATE)
APPROVED FOR CONSTRUCTION: W.B. CHAMBLESS 2-28-00 (SIGNATURE / DATE)

PROJ. MGR.: J. KORETCHKO
CHECKED: K. LEHMKER
DSP. LEAD: E. KLABER
OPERATOR: B. AIKENS
DATE: 12/16/99
CAD FILE: 36031061.DWG

SCALE	ORDER NO.	DRAWING NO	REV.
AS NOTED	28-T424-10	36-03-106	1

DESTROY PREVIOUS PRINT

NUW 004728



NOTES:

1. FOR CONCRETE GENERAL NOTES SEE DWG. 36-04-701.
2. REFER TO THE FOLLOWING DRAWINGS FOR EMBEDMENTS AND PENETRATIONS BEFORE STARTING CONSTRUCTION.
   SECONDARY CONTAINMENT LINER & UNDERGROUND PIPING: DWG. 36-03-715.
   UNDERGROUND GROUNDING: DWGS. 36-07-090, 36-07-091 AND 36-07-115
3. SAND SHALL BE COMPACTED TO 95% MAX. PROCTOR DENSITY AND CINDERS SHALL BE COMPACTED TO 90% MAX. PROCTOR DENSITY.
4. FLOOR FINISH SHALL BE A LIGHT BROOM FINISH AFTER A SINGLE STEEL TROWELLING ON TRUCK UNLOADING SLAB AND A SINGLE STEEL TROWELLING ON TANK FARM SLAB.
5. JOINT SEALANT SHALL BE AS SPECIFIED ON SPEC 57100S-1.
6. DO NOT USE CURING COMPOUNDS OR RELEASE AGENTS ON FLOOR SURFACE OR INSIDE OF PIT WALLS.
7. SPLICE LENGTH FOR REBARS SHALL BE:
   #4 REBAR: 1'-7" (TOP BARS: 2'-0")
   NO MORE THAN 50% OF REBARS SHALL BE SPLICED AT ONE PLACE. SPLICE LOCATIONS SHALL BE KEPT TO A MINIMUM.
8. P.J.F DENOTES PREMOLDED JOINT FILLER. P.J.F SHALL BE ASPHALT IMPREGNATED FIBERBOARD CONFORMING TO ASTM D-1751 U.O.N.
9. COATING SHALL BE SYSTEM 2 SPECIFICATION 57100S-1.
10. REBAR SHIPMENTS SHALL COLOR CODED WHITE.
11. PROCESS AREA 10.

REGISTERED JAN 23 2001 By:

JACOBS ENGINEERING
Engineers and Constructors
P.O. Box 2008, Lakeland, Florida 33806-2008 Hwy. 665 @ SR 540, Lakeland Florida 33815 Tel: (941) 665-1511 Fax: (941) 665-5223

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FES - Princeton, NJ

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REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD	REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
									1		ADDED PAD FOR PUMP CF-4135126. ADDED TWO S.S. VALVES	CAD	ELK	1-18-01	ELK	HH	
											SEE DET. "2" AND SECTS "D" & "E". DEL CONST NOTE						
									0		APPROVED FOR CONSTRUCTION	RFL	ELK	6-28-00	ELK	WCS	

APPROVED FOR CONSTRUCTION: E. KLABER 6/28/00 — SIGNATURE / DATE
APPROVED FOR CONSTRUCTION: W.C. STIEREN 6/28/00 — SIGNATURE / DATE
APPROVED FOR CONSTRUCTION: W. CHAMBLESS 6/28/00 — SIGNATURE / DATE

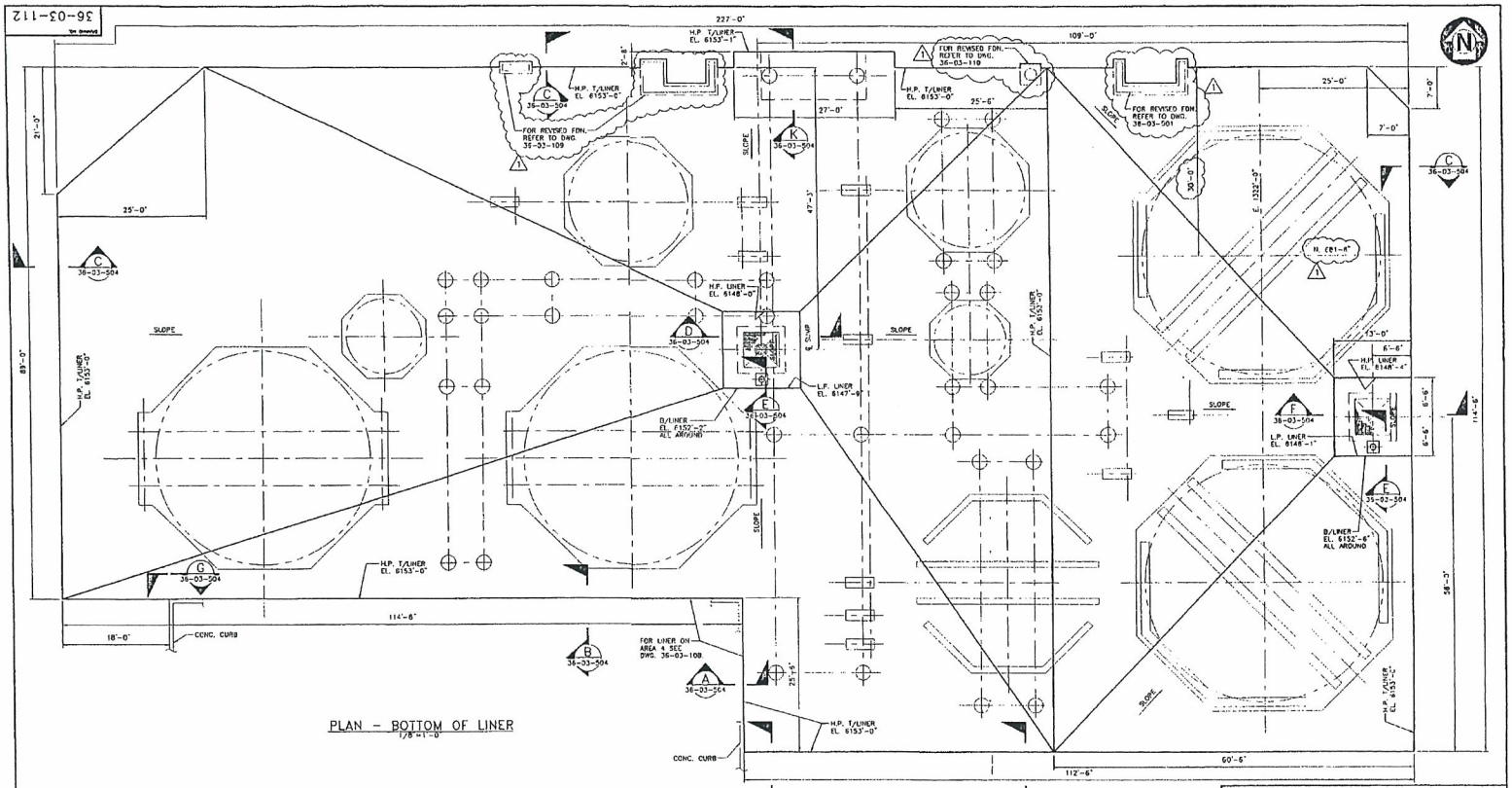
PROJ. MGR.: J. KORETCHKO
CHECKER: E. KLABER
DSP. LEAD: E. KLABER
ORIGINATOR: J. JANNOTTA
DATE: 8/4/99
CAD FILE: 36031071.DWG

PURE PHOSPHORIC ACID PLANT AT AGRIUM-CONDA PHOSPHATES PEROXIDE TANK FARM FOUNDATION PLAN

SCALE	DRAWING NO.	DRAWING NO.	REV.
AS NOTED	28-T424-10	36-03-107	1

APPROVED FOR CONSTRUCTION
REVISED
DESTROY PREVIOUS PRINT

NUW 004729



PLAN - BOTTOM OF LINER
1/8"=1'-0"

NOTES:

1 FOR GENERAL NOTES SEE DWG. 36-03-504.

GRAPHIC SCALE
0' 4' 8' 12' 16' 20' 24'
SCALE: 1/8" = 1'-0"

REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD	REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
									1		REVISED LINER LAYOUT	[illegible]	ELK	6-13-00	ELK	[illegible]	
									0		APPROVED FOR CONSTRUCTION	ELK	SSP	1/25/00	ELK		

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PURE PHOSPHORIC ACID PLANT
AT AGRIUM-CONDA PHOSPHATES
GREEN ACID & RAFFINATE TANK FARM
SECOND. CONT. LINER - SHEET NO. 1

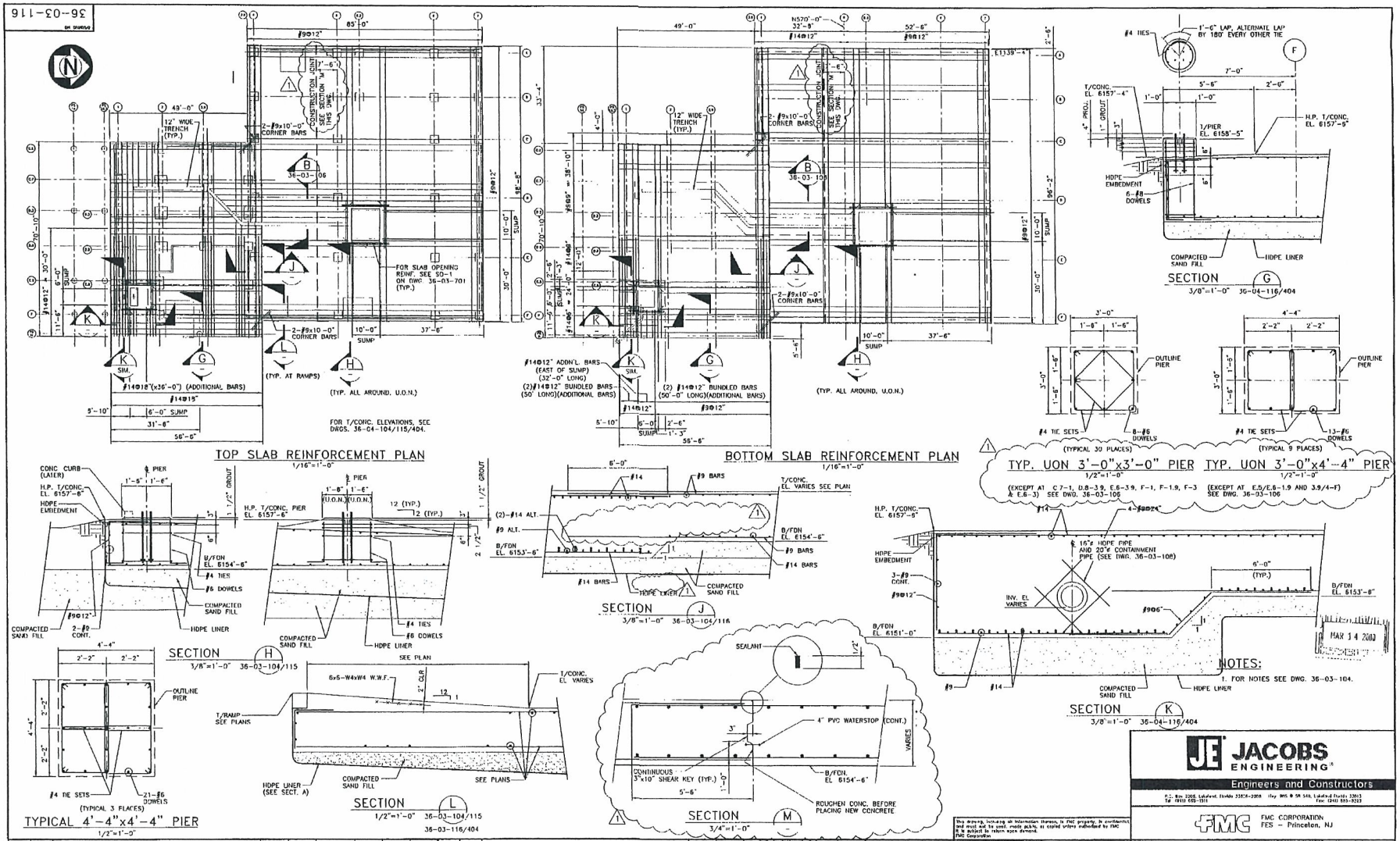
APPROVED FOR CONSTRUCTION: E. KLABER 1/25/00	FIRM MGR. J. KORETCHKO		
SIGNATURE DATE	CHECKED:		
APPROVED FOR CONSTRUCTION: W. STIEREN 1/25/00	DISP. LEAD E. KLABER		
SIGNATURE DATE	OPERATOR J. JANNOTTA		
APPROVED FOR CONSTRUCTION: W.B. CHAMBLESS 1/25/00	DATE 10/11/99		
SIGNATURE DATE	CAD FILE 35031121.DWG		

SCALE	DRAWING NO.	DRAWING NO.	REV
1/8"=1'-0"	28-T424-10	36-03-112	1

AREA 3 & 8

NUW 004730

36-03-116



REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
1		REVISED 3'-0"x3'-0" PIER AND 3'-0"x4'-4" PIER,	ELK	SSP	3/13/00	ELK		
0		ADDED SECTION 'M' AND CONSTRUCTION JOINTS IN SLAB PLAN						
0		APPROVED FOR CONSTRUCTION	SSP	KAL	2-28-00	ELK		

APPROVED FOR CONSTRUCTION
E. KLABER 2-28-00
SIGNATURE DATE
APPROVED FOR CONSTRUCTION
W. STIEREN 2-28-00
SIGNATURE DATE
APPROVED FOR CONSTRUCTION
W.B. CHAMBLESS 2-28-00
SIGNATURE DATE

PROJ. MGR.: J. KORETCHKO
DRAWER: K. LEHMKER
DISC. LEAD: E. KLABER
DESIGNATION: J. JANNOTTA
DATE: 1/18/00
CAD FILE: 36031161.DWG

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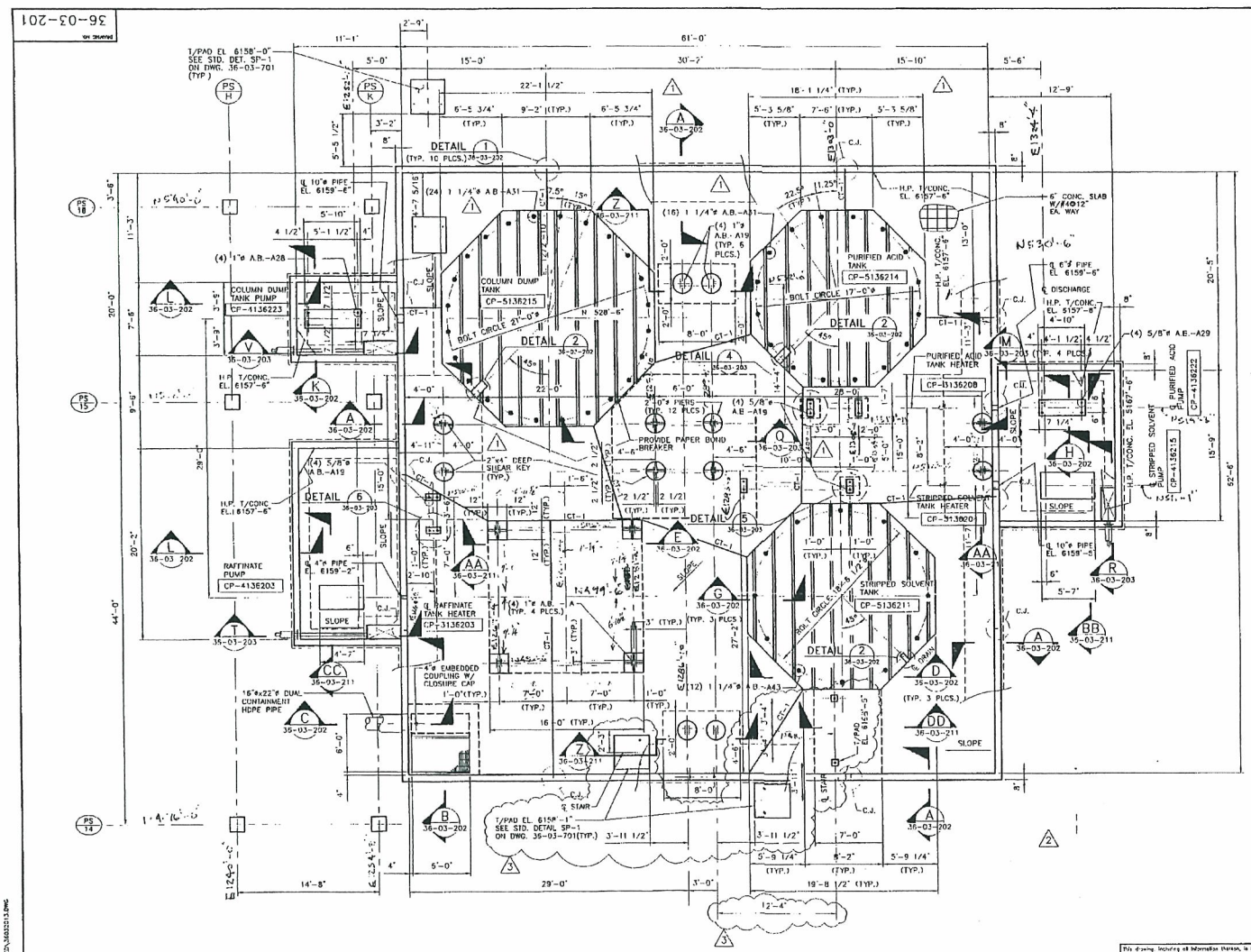
PURE PHOSPHORIC ACID PLANT
AT AGRIUM-CONDA PHOSPHATES
CONCENT./DESULF./EXTR. AREAS
MAT FDN. SECTIONS & DETAILS

SCALE	ORDER NO	DRAWING NO.	REV.
AS NOTED	28-T424-10	36-03-116	1

APPROVED FOR CONSTRUCTION
DESTROY PREVIOUS PRINT

NUW 004731

36-03-201



NOTES:

1. FOR CONCRETE GENERAL NOTES SEE DWG. 36-04-701.
2. WORK DRAWINGS 36-03-201 & 36-03-202 TOGETHER.
3. REFER TO THE FOLLOWING DRAWINGS FOR EMBEDMENTS AND PENETRATIONS BEFORE STARTING CONSTRUCTION.
   SECONDARY CONTAINMENT LINER: DWG. 36-03-204.
   UNDERGROUND GROUNDING: DWGS. 36-07-211, 36-07-090, 36-07-001 & 36-07-092.
4. FOR SOIL COMPACTION REQUIREMENTS REFER TO SECONDARY LINER DRAWINGS.
5. FLOOR FINISH SHALL BE A LIGHT BROOM FINISH AFTER A SINGLE STEEL TROWELLING.
6. JOINT SEALANT SHALL BE FLEXJOINT POLYSULFIDE JOINT SEALANT AS MANUFACTURED BY ELF ATOCHEM. JOINTS SHALL BE PRIMED WITH FLEXJOINT POLYSULFIDE PRIMER. (2)
7. SLAB AT GRADE FLOOR AND ALSO ALL INTERIOR SURFACES OF SUMPS AND DIKE WALL SHALL BE CURED USING FOG MIST OR WET BURLAP. CURING COATINGS, HARDENERS, RELEASE AGENTS OR SEALANTS SHALL NOT BE USED.
8. SPLICE LENGTH FOR REBARS SHALL BE:
   #6 REBAR: 2'-4" (TOP BARS: 3'-0")
   #8 REBAR: 3'-3" (TOP BARS: 4'-3")
   NO MORE THAN 50% OF REBARS SHALL BE SPLICED AT ONE PLACE. SPLICE LOCATIONS SHALL BE KEPT TO A MINIMUM.
9. EMBEDDED STEEL SHALL BE GALVANIZED.
10. P.J.F DENOTES PREMOLDED JOINT FILLER. P.J.F SHALL BE ASPHALT IMPREGNATED FIBERBOARD CONFORMING TO ASTM D-1751 U.O.N.
11. REBAR SHIPMENTS SHALL HAVE BROWN COLOR TAGS.
12. PROCESS AREA: 06, EXTRACTION TANK FARM
13. SUMP COATING SHALL BE "PENNTROWEL" VE, L/F, 3/16" THICK. (2)
14. ADHESIVE WATERSTOP TO BE "SYNKO-FLEX" ADHESIVE WATERSTOP AS MANUF. BY SYNKO-FLEX PRODUCTS OR APPROVED EQUAL.
15. CT-1 DENOTES CONTROL JOINT SEE DWG. 36-03-701.

(1) APPROVED FOR CONSTRUCTION REVISED DESTROY PREVIOUS PRINT MAY 08 2000

MAY 09 2000

GRAPHIC SCALE 0' 2' 4' 6' 8' 12' 16'
SCALE: 3/16" = 1'-0"

REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD

REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
3		ADDED STAIR PADS	JFJ	KAL	5-5-00	RK	WJJ	
2		REMOVED HOKO AREA	RFL	FAB	2-4-00	ELK	WCS	
1		REVISED COLUMN DUMP & PURIFIED ACID TANK, FOUNDATION	JFJ	SSP	1-28-00	ELK	WCS	
		SIZES, ANCH. BOLT SIZES AND LOCATION						
0		APPROVED FOR CONSTRUCTION: OCTAGONAL FOUNDATIONS AND 16'x16' FOUNDATION ONLY	SSP	CCN	1-5-00	ELK	WCS	

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APPROVED FOR CONSTRUCTION
E. KLABER 1/5/00 SIGNATURE DATE
APPROVED FOR CONSTRUCTION
W.C. SIEREN 1/5/00 SIGNATURE DATE
APPROVED FOR CONSTRUCTION
W.B. CHAMBLESS 1/5/00 SIGNATURE DATE

PROJ. MGR. J. KORETCHKO
ENGINEER C. NGUYEN
DIV. LEAD E. KLABER
DRAFTSMAN J. JANNOTTA
DATE 7/15/99
CAD FILE: 36032013.DWG

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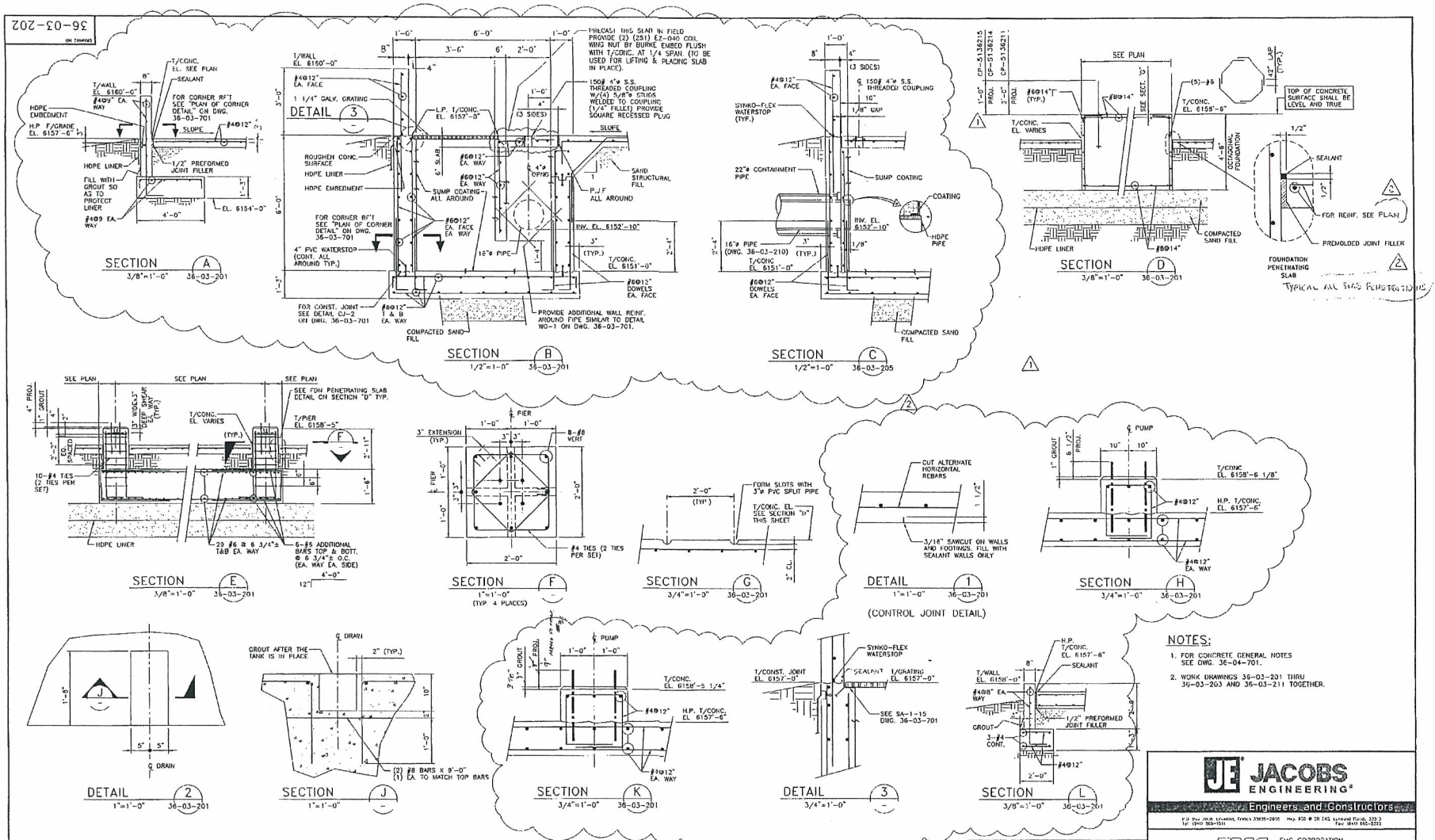
PURE PHOSPHORIC ACID PLANT AT AGRIUM-CONDA PHOSPHATES EXTRACTION AREA TANK FARM FOUNDATION PLAN

SCALE	ORDER NO.	DRAWING NO.	REV.
3/16"=1'-0"	28-T424-10	36-03-201	3

NUW 004732



NOTES:

1. FOR CONCRETE GENERAL NOTES SEE DWG. 36-04-701.
2. WORK DRAWINGS 36-03-201 THRU 36-03-203 AND 36-03-211 TOGETHER.

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REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
2		ADDED SECTIONS A, B, C, H, K, L. DETAIL 1 & 2			2-4-00			
1		REMOVED HOLD ON SECTION "D" & DELETED DETAIL #1	JFJ	SSP	1-28-00	ELK	WCS	
0		APPROVED FOR CONSTRUCTION: OCTAGONAL FOUNDATIONS AND 16'x16' FOUNDATION ONLY	SSP	CCN	1-5-00	ELK	WCS	

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APPROVED FOR CONSTRUCTION: E. KLABER 1/5/00
APPROVED FOR CONSTRUCTION: W.C. STIEREN 1/5/00
APPROVED FOR CONSTRUCTION: W.B. CHAMBLESS 1/5/00

PROJ. MGR.: J. KORETCHKO
DRAWN: C. NGUYEN
DSN. LEAD: E. KLABER
DATE: 12/6/99
CAD FILE: 36032022.DWG

PURE PHOSPHORIC ACID PLANT AT AGRIUM-CONDA PHOSPHATES EXTRACTION AREA TANK FARM SECTIONS & DETAILS SHEET 1

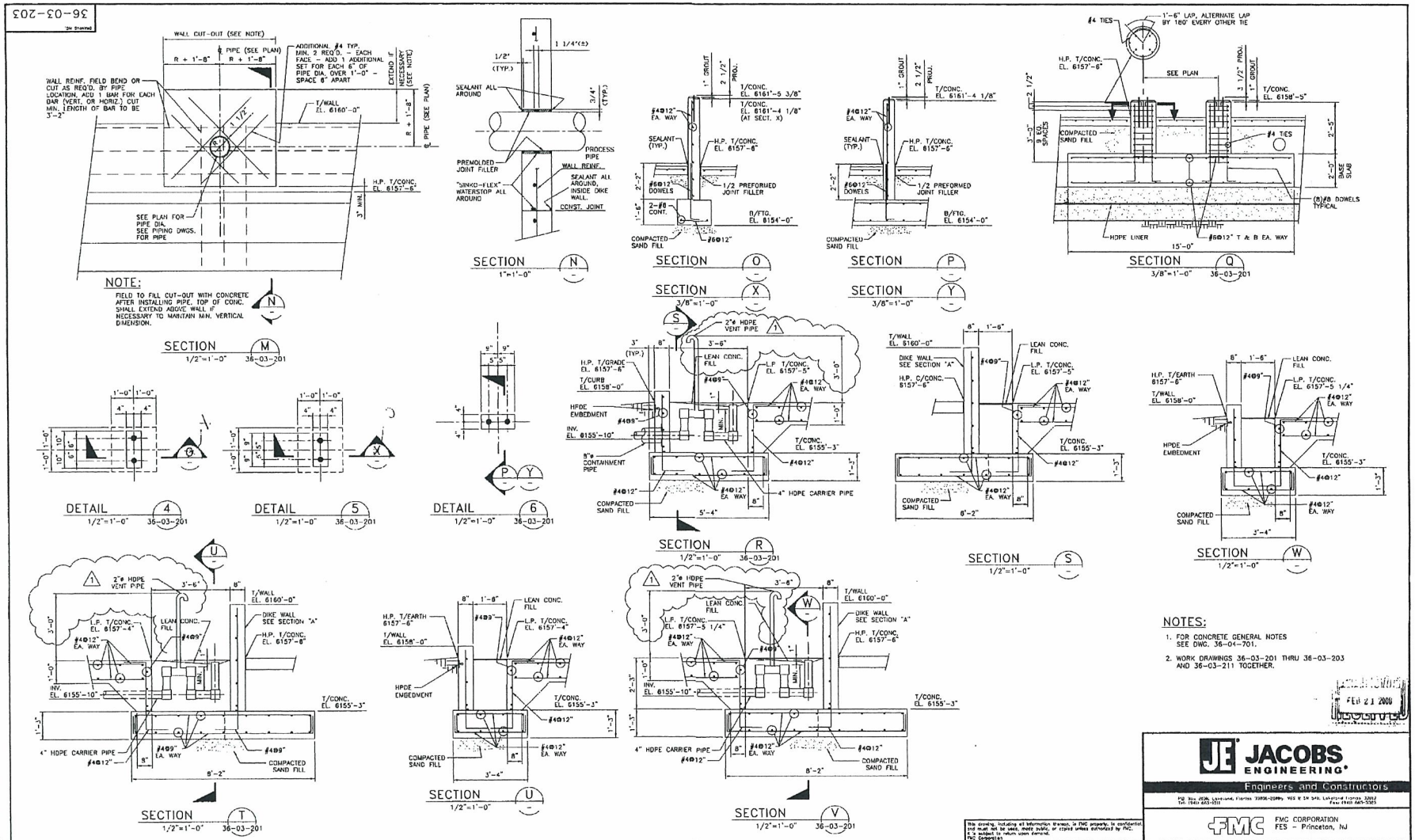
SCALE	CIRCLE NO.	DRAWING NO.	REV.
AS NOTED	28-T424-10	36-03-202	2

Area 6

APPROVED FOR CONSTRUCTION
DESTROY PREVIOUS PRINT

NUW 004733

36-03-203



NOTES:

1. FOR CONCRETE GENERAL NOTES SEE DWG. 36-04-701.
2. WORK DRAWINGS 36-03-201 THRU 36-03-203 AND 36-03-211 TOGETHER.

FEB 21 2000

REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD	REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
									1		ADDED 2"ø VENT PIPE						
									0		APPROVED FOR CONSTRUCTION	RFL	FAR	2-4-00	ELK	WCS	

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APPROVED FOR CONSTRUCTION — SIGNATURE — DATE
APPROVED FOR CONSTRUCTION — SIGNATURE — DATE
APPROVED FOR CONSTRUCTION — SIGNATURE — DATE

PROJ. MGR. J. KORETCHKO
CHECKED
DISP. LEAD E. KLABER
DESIGNER J. JANNOTTA
DATE: 1/28/00
CAD FILE: 36030203.DWG

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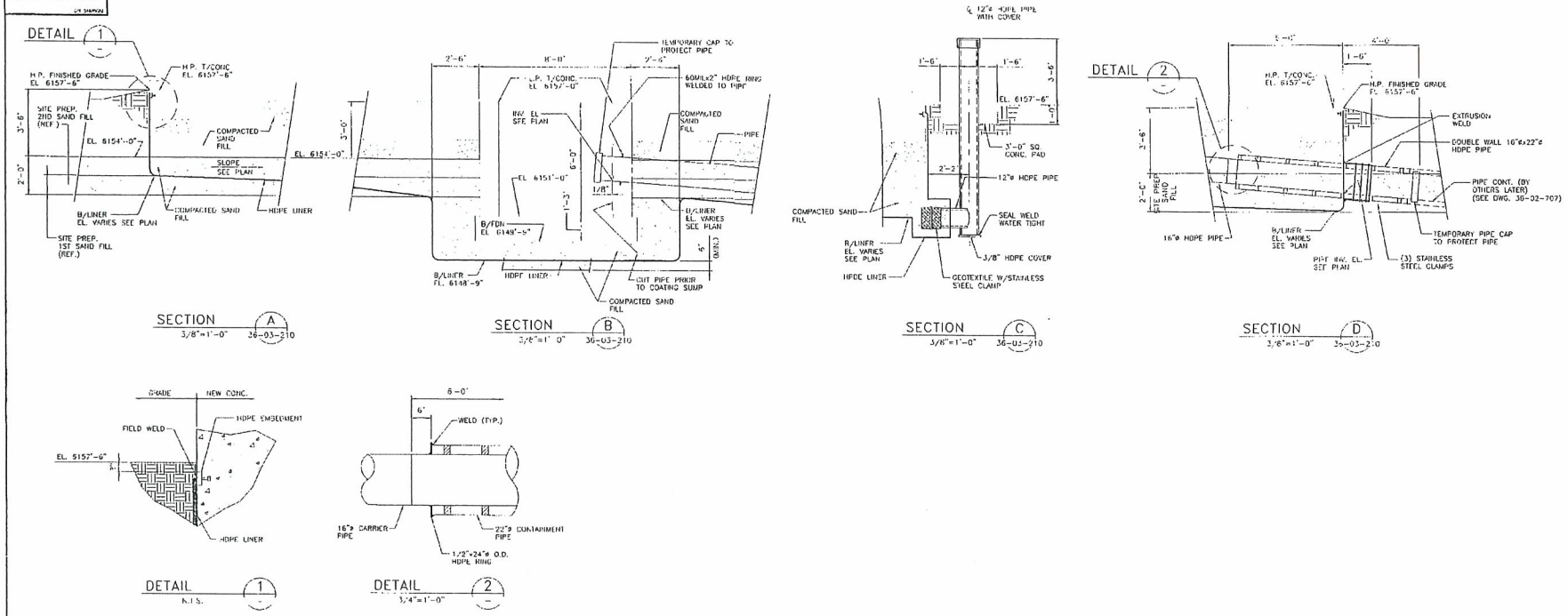
PURE PHOSPHORIC ACID PLANT
AT AGRIUM-CONDA PHOSPHATES
EXTRACTION AREA TANK FARM
SECTIONS & DETAILS SHEET 2

SCALE	ERECT NO.	DRAWING NO.	REV.
AS NOTED	28-T424-10	36-03-203	1

36-03-209



NOTES:

1. FOR NOTES SEE DRAWING 36-03-210

APPROVED FOR CONSTRUCTION

NOV 23 (99)

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PURE PHOSPHORIC ACID PLANT
AT AGRIUM-CONDA PHOSPHATES
MIXER SETTLER STRUCTURE
FDN. SECTS. & DETS. - SHEET NO. 3

REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD	REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
									0		APPROVED FOR CONSTRUCTION			11-23-99			

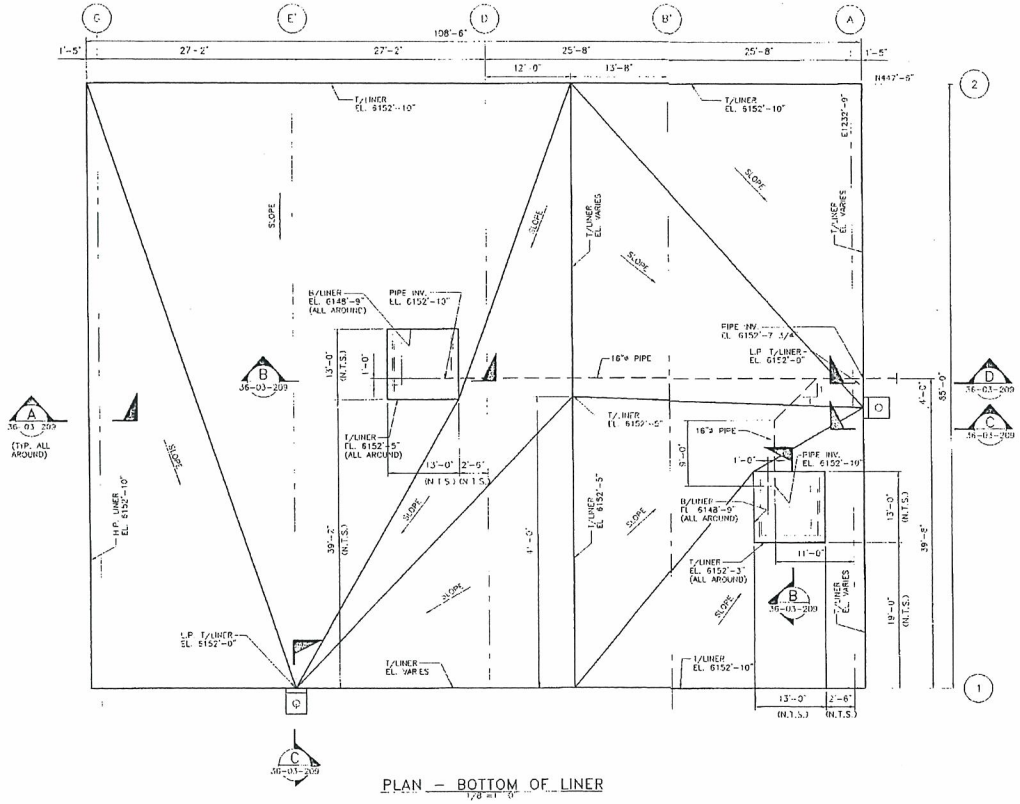
DRAWN BY: J. KORETCHKO
CHECKED: T. PAYNE
SPV. ENG.: E. KLABER
COORDINATOR: J. LANDITTA
DATE: 10/29/99
CAD FILE: 36D32090.DWG

SCALE	SHEET NO.	DRAWING NO.	REV.
AS NOTED	28-T424-10	36-03-209	0

AREA 7

NUW 004735

36-03-210



PLAN – BOTTOM OF LINER
1/8" = 1'-0"

NOTES:

1. HDPE LINER SHALL BE 60 ML THICK AND GEOTEXTILE SHALL BE "GUNDFAB GEOTEXTILE" POLYFELT S-600 OR APPROVED EQUAL.
2. HDPE EMBEDMENT SHALL BE "GUNDLOCK HDPE" AS MANUFACTURED BY GUNDLE LINING SYSTEMS, INC., HOUSTON, TEXAS (800/435-2008) OR APPROVED EQUAL.
3. LINER MATERIALS AND INSTALLATION SHALL BE PER SPECIFICATION 52300S-1 SECONDARY CONTAINMENT LINER
4. LINER, HDPE EMBEDMENT, CLAMPS, AND SLEEVES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATION 52300S-1.
5. FILL MATERIALS, FILL PLACEMENT AND COMPACTION SHALL BE ACCORDING TO SPECIFICATION 52100S-1. FILL ABOVE EL. 6154'-0" SHALL HAVE NO MORE THAN 5% PASSING THE NO. 200 SIEVE. FILL BELOW THE EL. 6154'-0" SHALL HAVE NO MORE THAN 14% PASSING THE NO. 200 SIEVE.
6. FILL COMPACTION WITHIN 3 FEET OF LINER SHALL BE WITH MANUAL EQUIPMENT SO AS TO NOT DAMAGE LINER.
7. FOR FOUNDATIONS SEE DWGS. 36-03-205 THRU 36-03-207.
8. FOR UNDERGROUND GROUNDING SEE DWG. 36-07-212, 36-07-213, 36-07-090, 36-07-091 AND 36-07-092. NOTE: UNDERGROUND GROUNDING DOES NOT PENETRATE LINER.
9. LINER INSTALLATION SEQUENCE:
   AFTER OTHERS INSTALL SITE PREP. FIRST SAND FILL, LINER SUB-CONTRACTOR SHALL INSTAL. LINER AROUND SUMP AND HORIZONTAL PORTION OF LINER. LINER SUB-CONTRACTOR WILL BE CALLED BACK TO INSTALL VERTICAL PORTIONS OF LINER THAT TIE INTO FOUNDATION. LINER SUB-CONTRACTOR SHALL COORDINATE LINER INSTALLATION SCHEDULE WITH J.E. MERIT GENERAL CONTRACTORS.
10. 16"ø HDPE PIPE SHALL CONFORM TO SPECIFICATION IPD0H01. INSTALLATION SHALL BE HYDROTESTED TO 5 PSI. TEST END PLUGS SHALL BE USED. SOIL FILL AROUND PIPE SHALL NOT BE INSTALLED UNTIL PIPE HAS BEEN TESTED AND NO LEAKS HAVE BEEN FOUND.

GRAPHIC SCALE
0' 4' 8' 12' 16' 20' 24'
SCALE: 1/8" = 1'-0"

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FES - Princeton, NJ

REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD	REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
									0		APPROVED FOR CONSTRUCTION	[illegible]	SSP	11-23-99	[illegible]	[illegible]	

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APPROVED FOR CONSTRUCTION
SIGNATURE DATE
APPROVED FOR CONSTRUCTION
SIGNATURE DATE
APPROVED FOR CONSTRUCTION
SIGNATURE DATE

FIELD VIEW: J. KORETCHKO
DRAWN: S. PATIL
DSP. LEAD: E. KLABER
PROJECT: J. JANNOTTA
DATE: 10/29/99
CAD FILE: 36032100.DWG

PURE PHOSPHORIC ACID PLANT
AT AGRIUM-CONDA PHOSPHATES
MIXER SETTLER STRUCTURE
SECONDARY CONTAINMENT LINER

SCALE	FACILITY NO.	DRAWING NO.	REV
1/8"=1'-0"	28-T424-10	36-03-210	0

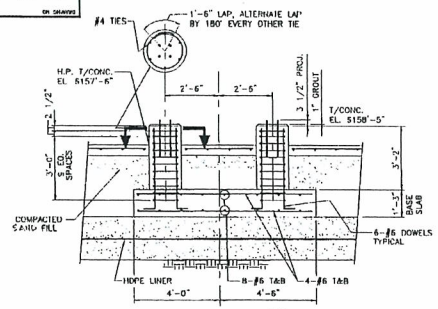
APPROVED FOR CONSTRUCTION

AREA 7

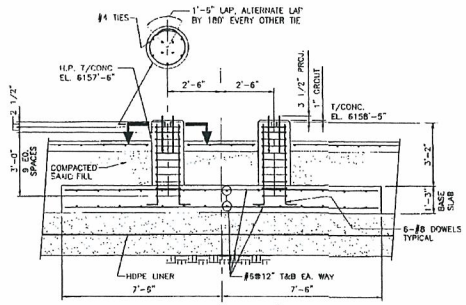
NOV 23 1999

NUW 004736

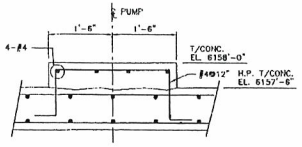
36-03-211



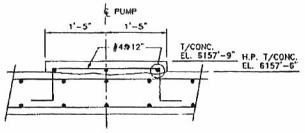
SECTION Z
3/8"=1'-0" 36-03-201



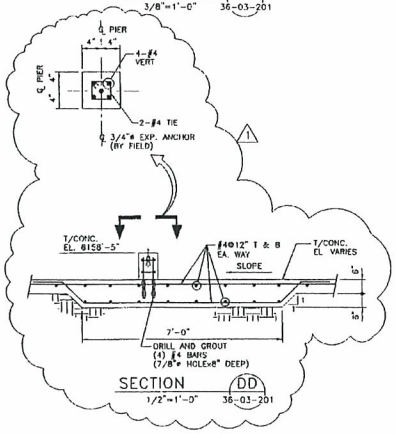
SECTION AA
3/8"=1'-0" 36-03-201



SECTION BB
3/4"=1'-0" 36-03-201



SECTION CC
3/4"=1'-0" 36-03-201



SECTION DD
1/2"=1'-0" 36-03-201

MAY 09 2000

NOTES:

1. FOR CONCRETE GENERAL NOTES SEE DWG. 36-04-701.
2. WORK DRAWINGS 36-03-201 THRU 36-03-203 AND 36-03-211 TOGETHER.

MAY 08 2000

CONSTRUCTION REVISED
DESTROY PREVIOUS PRINT

JACOBS ENGINEERING
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FES – Princeton, NJ

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REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
1		REVISED SECTION "DD"	JFJ	KAL	5-5-00	ELK	WJ	
0		APPROVED FOR CONSTRUCTION	RFL	FAB	2-4-00	ELK	WCS	

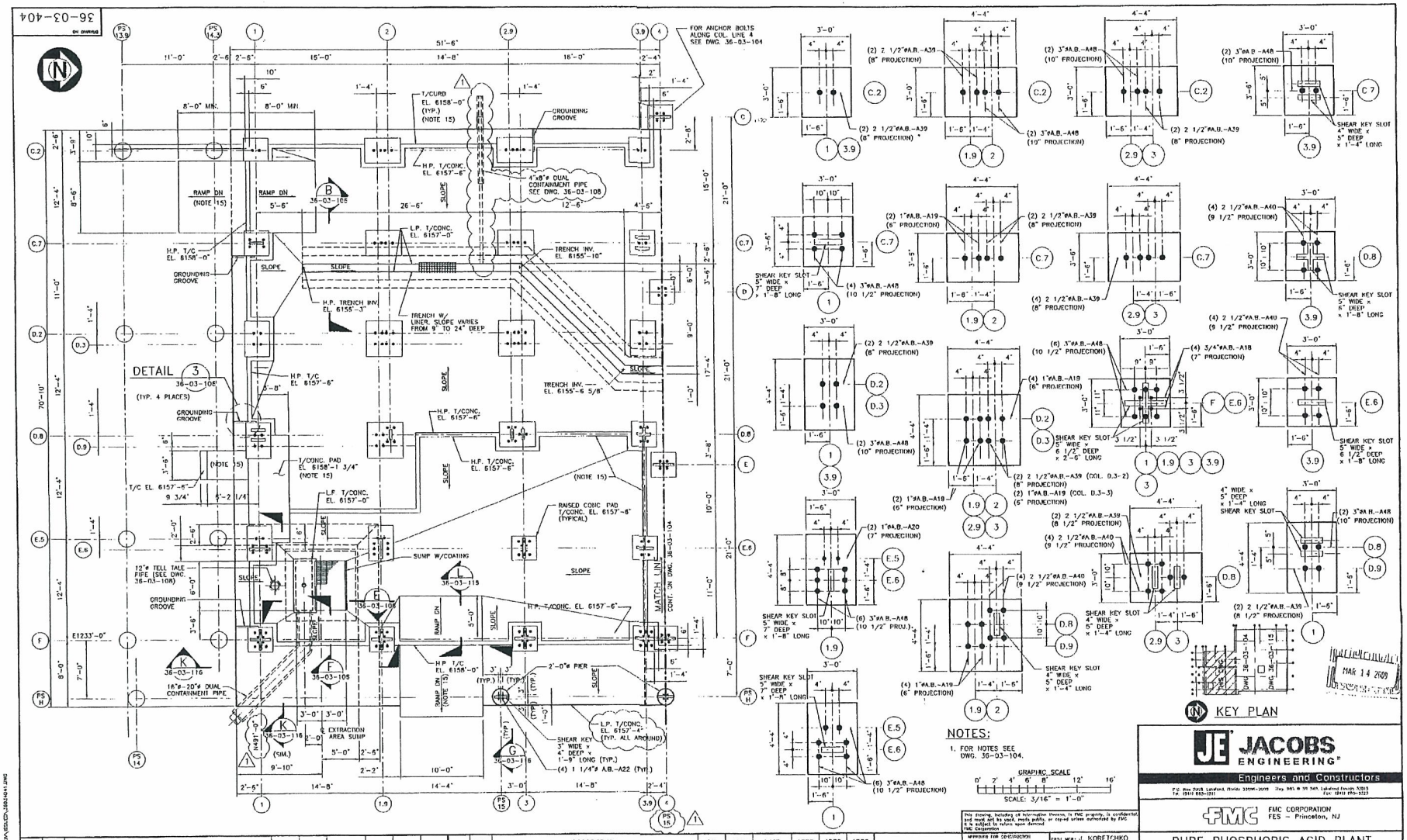
APPROVED FOR CONSTRUCTION: EKlaber 5-5-00 — SIGNATURE DATE
APPROVED FOR CONSTRUCTION: WC Jr 5/5/00 — SIGNATURE DATE
APPROVED FOR CONSTRUCTION — SIGNATURE DATE

PROJ. MGR.: J. KORETCHKO
CHECKER:
DSP. LEAD: E. KLABER
DRAWN BY: J. JANNOTTA
DATE: 2/1/00
CAD FILE: 36032111.DWG

PURE PHOSPHORIC ACID PLANT
AT AGRIUM-CONDA PHOSPHATES
EXTRACTION AREA TANK FARM
SECTIONS & DETAILS SHEET 3

SCALE	ORDER NO.	DRAWING NO.	REV.
AS NOTED	28-T424-10	36-03-211	1

NUW 004737



REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
1		ADDED 4"ø HDPE PIPE, COL. CALL-OUT AND REV. CO-ORD.	SSP	ELK	3-13-00	ELK		
0		APPROVED FOR CONSTRUCTION	SSP	KAL	2-28-00	ELK		

This drawing, including all information thereon, is FMC property, is confidential, and must not be used, made public, or copied unless authorized by FMC. It is subject to return upon demand. FMC Corporation

APPROVED FOR CONSTRUCTION: E. KLABER 2-28-00 (SIGNATURE / DATE)
APPROVED FOR CONSTRUCTION: W. STIEREN 2-28-00 (SIGNATURE / DATE)
APPROVED FOR CONSTRUCTION: W.B. CHAMBLESS 2-28-00 (SIGNATURE / DATE)

PROJ. MGR.: J. KORETCHKO
CHECKER: K. LEHMKER
DISP. LEAD: E. KLABER
ORIGINATOR: B. AIKENS
DATE: 12/14/99
CAD FILE: 36034041.DWG

JACOBS ENGINEERING
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FMC CORPORATION
FES – Princeton, NJ

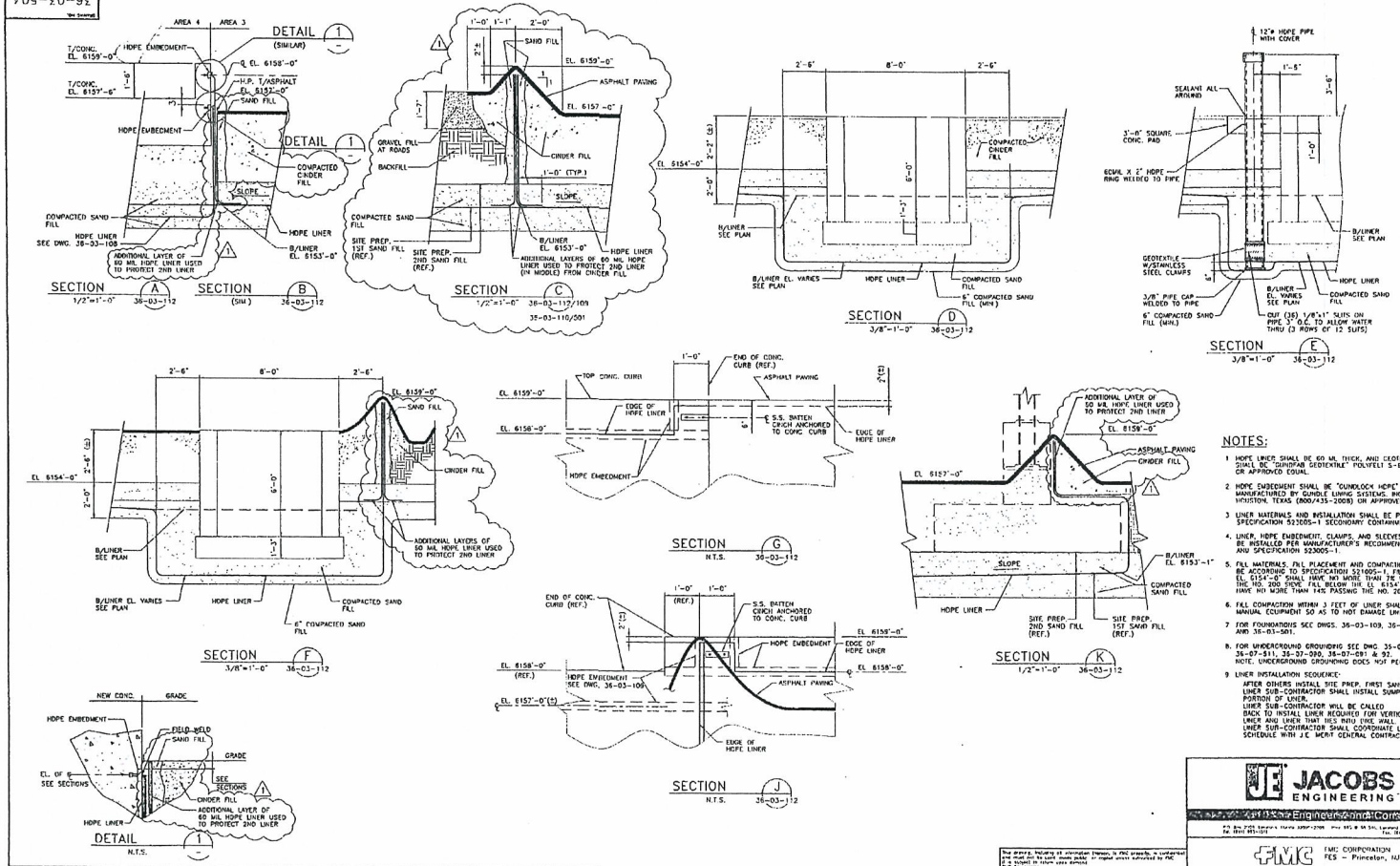
PURE PHOSPHORIC ACID PLANT AT AGRIUM-CONDA PHOSPHATES EXTRACTION CONCENTRATION AREA MAT FOUNDATION PLAN – SHEET 3

SCALE	ORDER NO.	DRAWING NO.	REV.
3/16"=1'-0"	28-T424-10	36-03-404	1

DESTROY PREVIOUS PRINT

NUW 004738

36-03-504



NOTES:

1. HDPE LINER SHALL BE 60 MIL THICK, AND GEOTEXTILE SHALL BE "SUNDAR GEOTEXTILE" POLYFELT S-600 OR APPROVED EQUAL.
2. HDPE EMBEDMENT SHALL BE "GUNDLOCK HDPE" AS MANUFACTURED BY GUNDLE LINING SYSTEMS, INC., HOUSTON, TEXAS (800/435-2008) OR APPROVED EQUAL.
3. LINER MATERIALS AND INSTALLATION SHALL BE PER SPECIFICATION 52205-1 SECONDARY CONTAINMENT LINER.
4. LINER, HDPE EMBEDMENT, CLAMPS, AND SLEEVES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATION 52305-1.
5. FILL MATERIALS, FILL PLACEMENT AND COMPACTION SHALL BE ACCORDING TO SPECIFICATION 52105-1. FILL ABOVE EL. 6154'-0" SHALL HAVE NO MORE THAN 7% PASSING THE NO. 200 SIEVE. FILL BELOW THE EL. 6154'-0" SHALL HAVE NO MORE THAN 14% PASSING THE NO. 200 SIEVE.
6. FILL COMPACTION WITHIN 3 FEET OF LINER SHALL BE WITH MANUAL EQUIPMENT SO AS TO NOT DAMAGE LINER.
7. FOR FOUNDATIONS SEE DWGS. 36-03-109, 36-03-110 AND 36-03-501.
8. FOR UNDERGROUND GROUNDING SEE DWG. 35-07-129 & 121, 36-07-511, 36-37-000, 28-07-081 & 82. NOTE: UNDERGROUND GROUNDING DOES NOT PENETRATE LINER
9. LINER INSTALLATION SEQUENCE:
   AFTER OTHERS INSTALL SITE PREP. FIRST SAND FILL, LINER SUB-CONTRACTOR SHALL INSTALL SUMP AND HORIZONTAL PORTION OF LINER.
   LINER SUB-CONTRACTOR WILL BE CALLED BACK TO INSTALL LINER REQUIRED FOR VERTICAL PORTIONS OF LINER AND LINER THAT HAS PASS ONE WALL.
   LINER SUB-CONTRACTOR SHALL COORDINATE LINER INSTALLATION SCHEDULE WITH J.E. MERIT GENERAL CONTRACTORS

JACOBS ENGINEERING
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FES – Princeton, NJ

REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD	REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
									1		ADDED PROTECTIVE LINER TO SECTIONS "B", "E", "K" AND DETAIL 1	JFJ	SSP	6-13-00	ELK		
									0		APPROVED FOR CONSTRUCTION	JFJ	SSP	1-25-00	ELK		

APPROVED FOR CONSTRUCTION: E. KLABER 1-25-00 (SIGNATURE / DATE)
APPROVED FOR CONSTRUCTION: 6/13/00 (SIGNATURE / DATE)
APPROVED FOR CONSTRUCTION (SIGNATURE / DATE)

PROJ. MGR. J. NORLTCHKO
DESIGN: S. PATEL
SUP. LEAD E. KLABER
DRAWN: J. JANNOTTA
DATE: 10/11/99
CAD FILE: 36035041.DWG

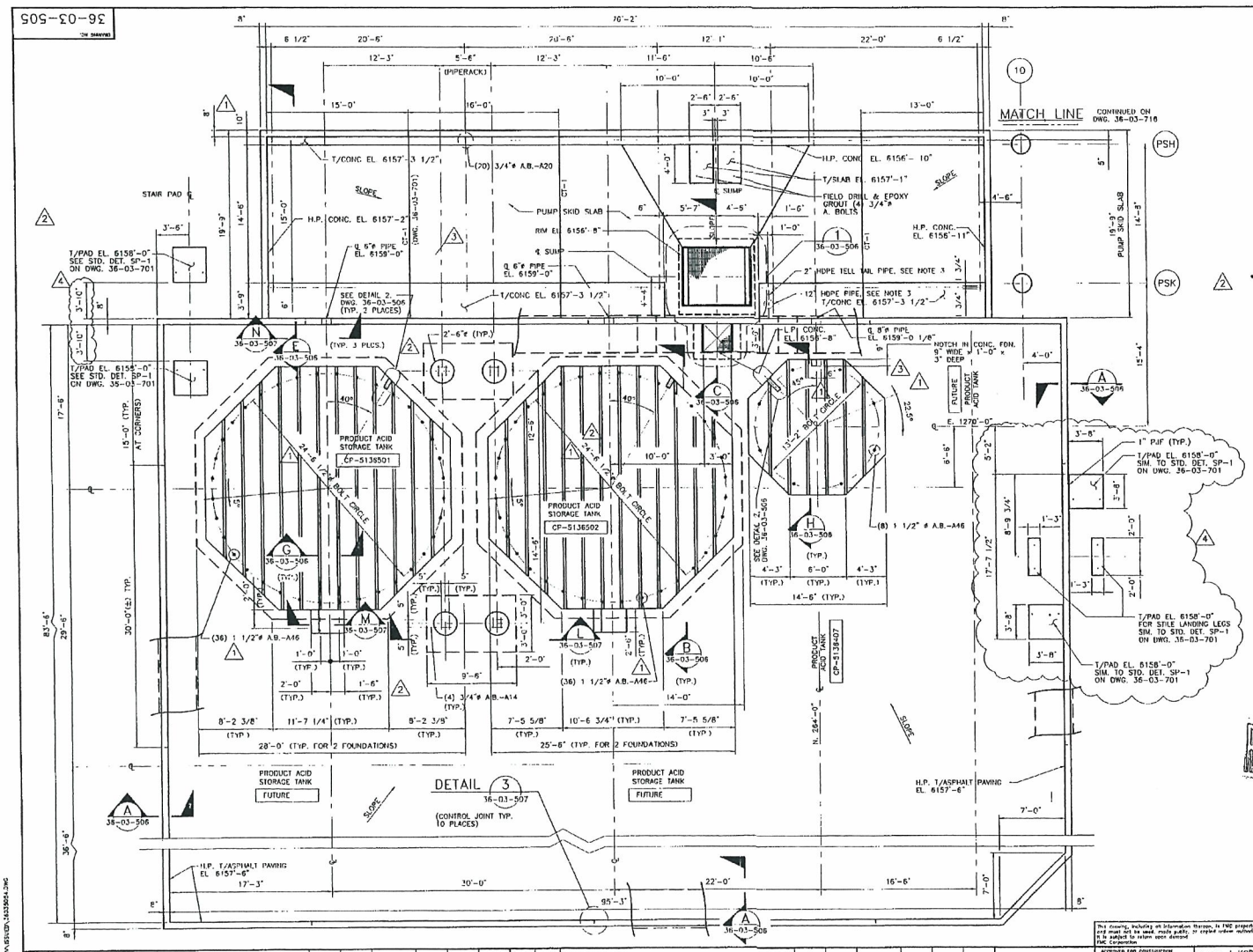
PURE PHOSPHORIC ACID PLANT
AT AGRIUM-CONDA PHOSPHATES
GREEN ACID & RAFFINATE TANK FARM
SECOND. CONTAINMENT LINER SHEET 2

SIZE	PROJ. NO.	DRAWING NO.	REV
AS NOTED	28-T424-10	36-03-504	1

AREA 8

NUW 004739

36-03-505



NOTES:

1. FOR CONCRETE GENERAL NOTES SEE DWG. 36-04-701.
2. WORK DRAWINGS 36-03-505 & 36-03-506 TOGETHER.
3. REFER TO THE FOLLOWING DRAWINGS FOR EMBEDMENTS AND PENETRATIONS BEFORE STARTING CONSTRUCTION.
   SECONDARY CONTAINMENT LINER & UNDERGROUND PIPING: DWGS. 36-03-507 AND 36-03-508.
   UNDERGROUND GROUNDING: DWGS. 36-07-512, 36-07-513, 36-07-090, 36-07-091 & 36-07-092.
4. FOR SOIL COMPACTION REQUIREMENTS REFER TO SECONDARY LINER DRAWINGS.
5. FLOOR FINISH SHALL BE A SINGLE STEEL TROWELLING.
6. JOINT SEALANT SHALL BE FLEXJOINT POLYSULFIDE JOINT SEALANT AS MANUFACTURED BY ELF ATOCHEM. JOINTS SHALL BE PRIMED WITH FLEXJOINT POLYSULFIDE PRIMER.
7. SLAB AT GRADE FLOOR AND ALSO ALL INTERIOR SURFACES OF SUMPS SHALL BE CURED USING FOG MIST OR WET BURLAP. CURING COATINGS, HARDENERES OR SEALANTS SHALL NOT BE USED.
8. A SPECIAL INSPECTION OF ALL ANCHOR BOLTS, TIES AND HAIR PIN INSTALLATION SHALL BE CONDUCTED PRIOR TO AND DURING CONCRETE POUR. INSPECTION SHALL CONFORM TO SECTION 1701, U.B.C. 1997.
9. SPLICE LENGTH FOR REBARS SHALL BE:
   #4 REBAR: 1'-6" (TOP BARS: 2'-0")
   #6 REBAR: 2'-4" (TOP BARS: 3'-0")
   #8 REBAR: 3'-3" (TOP BARS: 4'-3")
   NO MORE THAN 50% OF REBARS SHALL BE SPLICED AT ONE PLACE. SPLICE LOCATIONS SHALL BE KEPT TO A MINIMUM.
10. EMBEDDED STEEL SHALL BE GALVANIZED.
11. P.J.F DENOTES PREMOLDED JOINT FILLER. P.J.F SHALL BE ASPHALT IMPREGNATED FIBERBOARD CONFORMING TO ASTM D-1751 U.O.N.
12. COATING ON FLOOR SLAB MUST BE APPLIED PRIOR TO ERECTING PIPING SKIDS.
13. ADHESIVE WATERSTOP TO BE "SYNKO-FLEX" ADHESIVE WATERSTOP AS MANUF. BY SYNKO-FLEX PRODUCTS OR APPROVED EQUAL.
14. PUMP SKID SLAB COATING TO BE "PENNTROWEL" VE SB 3/16" THICK. VERTICAL SURFACES, I.E. CURBS TO RECEIVE PENNCOAT 331.
15. SUMP COATING TO BE "PENNTROWEL" VE L/F. 3/16" THICK.
16. REBAR SHIPMENTS SHALL HAVE ORANGE COLOR TAGS.
17. PROCESS AREA 9, PRODUCT STORAGE AND LOADING.

DESTROY PREVIOUS PRINT

MAY 0 8 2000

GRAPHIC SCALE 0' 2' 4' 6' 8' 12' 16'
SCALE: 3/16" = 1'-0"

REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
4		REVISED STAIR PAD LOCATIONS	JFJ	KAL	5/5/00	ELK	WS	
3		REMOVED HOLD ON PRODUCT ACID TANK	JFJ	SSP	2/25/00	ELK		
2		REMOVED HOLDS, REV NOTES 6 & 9, ADDED NOTES 16 & 17	AFL	SSP	1/28/00	ELK	WCS	
1		UPDATED A.B. AND CONCRETE NOTCH FOR TANK DRAIN	SSP	ELK	1/13/00	ELK	WCS	
0		APPROVED FOR CONSTRUCTION	KAL	SSP	12/2/99	WCS/ELK		

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APPROVED FOR CONSTRUCTION: E. KLABER 1/13/00 (SIGNATURE / DATE)
APPROVED FOR CONSTRUCTION: W. STIEREN 1/13/00 (SIGNATURE / DATE)
APPROVED FOR CONSTRUCTION: W.D. CHAMBLESS 1/13/00 (SIGNATURE / DATE)

DRAWN: J. KORETCHKO
CHECKED: S. PATIL
DSG. LEAD: E. KLABER
DRAFTSMAN: J. JANNOTTA
DATE: 7/6/99
CAD FILE: 36035054.DWG

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FMC CORPORATION
FCS - Princeton, NJ

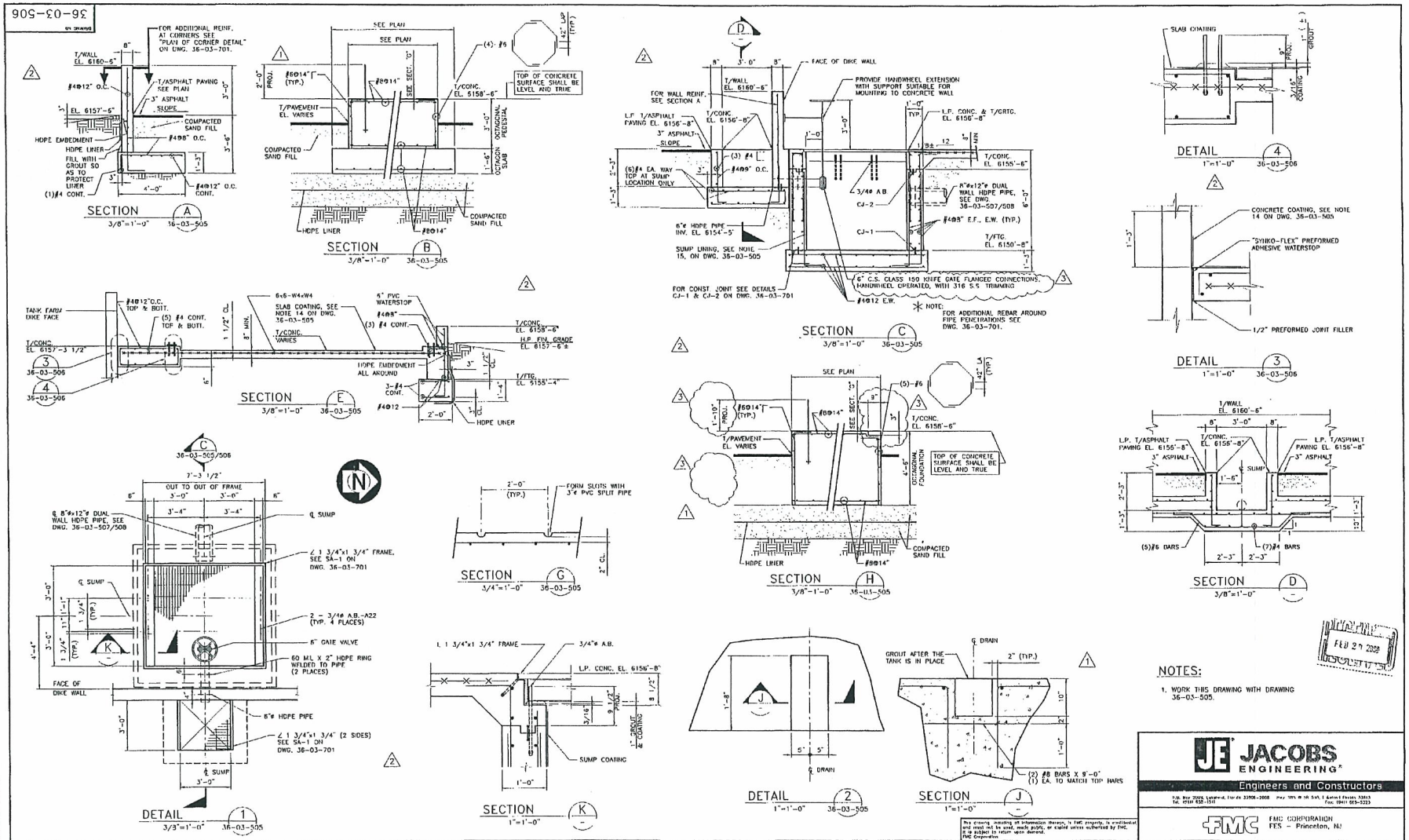
PURE PHOSPHORIC ACID PLANT AT AGRIUM-CONDA PHOSPHATES PRODUCT TANK FARM FOUNDATION PLAN

SCALE	SHEET NO.	DRAWING NO.	REV.
3/16"=1'-0"	28-T424-10	36-03-505	4

AREA 9

NUW 004740

36-03-506



NOTES:

1. WORK THIS DRAWING WITH DRAWING 36-03-505.

REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
3		REMOVED HOLD ON SECTION "H" AND REVISED VALVE	JFJ	SSP	2/25/00	ELK		
2		REMOVED HOLDS AND ADDED SECTION M	RFL	SSP	1/28/00	ELK	WCS	
1		UPDATED A.B. AND CONCRETE NOTCH FOR DRAIN	SSP	ELK	1/13/00	ELK/WCS		
0		APPROVED FOR CONSTRUCTION	KAL	SSP	12/2/99	WCS/ELK		

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APPROVED FOR CONSTRUCTION
E. KLABER 1/13/00 — SIGNATURE / DATE
APPROVED FOR CONSTRUCTION
W. STIEREN 1/13/00 — SIGNATURE / DATE
APPROVED FOR CONSTRUCTION
W.B. CHAMBLESS 1/13/00 — SIGNATURE / DATE

PROJ. MGR. J. KORETCHKO
CHECKED: S. PATIL
DISP. LEAD E. KLABER
DESIGNER J. JANNOTTA
DATE: 8/4/99
CAD FILE: 36035063.DWG

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P.O. Box 7005, Lakewood, Florida 33804-7005 Hwy 98 N at Sr 540, Lakeland Florida 33815
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FMC CORPORATION
FES - Princeton, NJ

PURE PHOSPHORIC ACID PLANT AT AGRIUM-CONDA PHOSPHATES PRODUCT TANK FARM - FOUNDATION SECTIONS & DETAILS SHEET 1

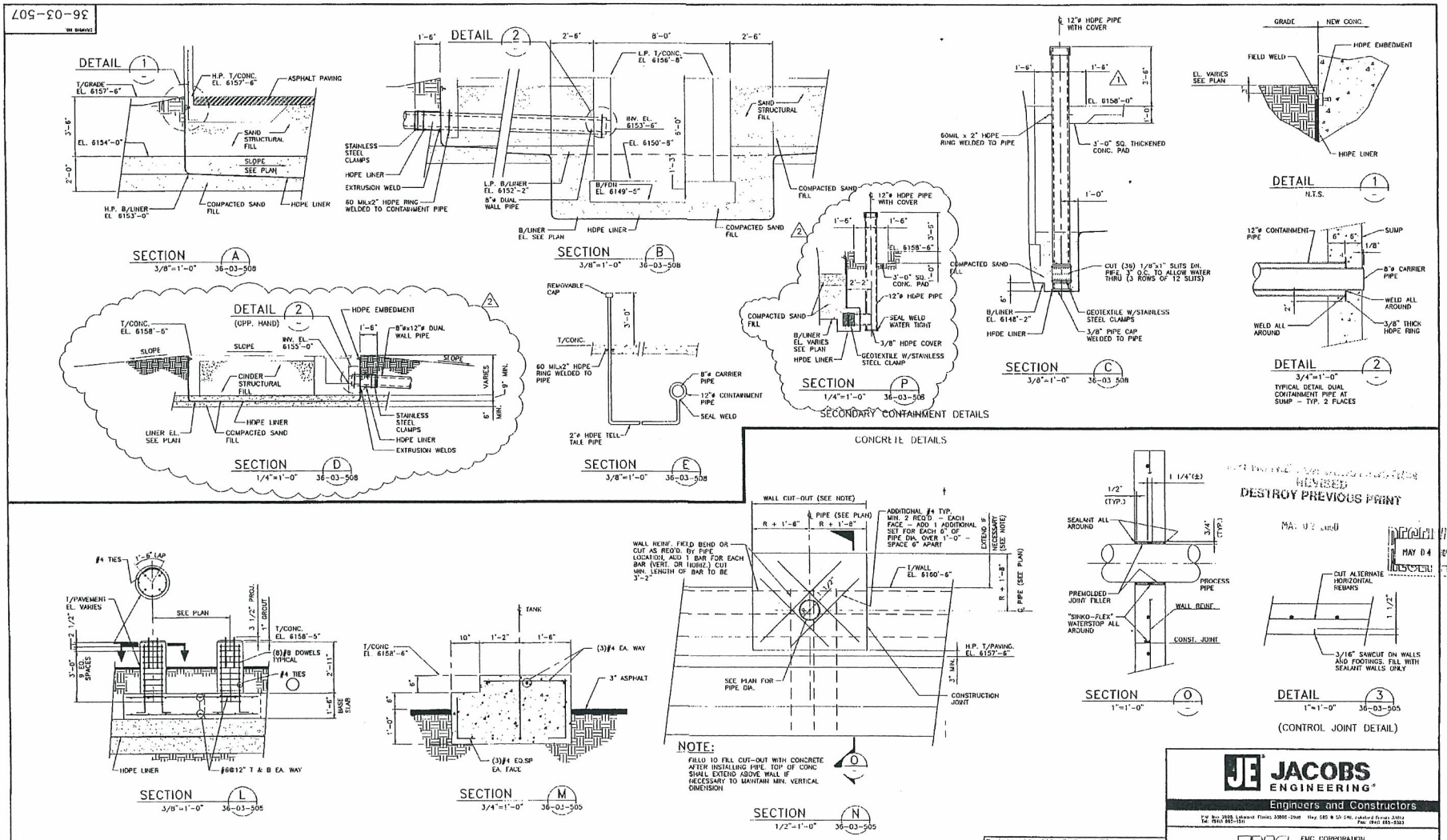
SCALE	ORDER NO.	DRAWING NO.	REV.
AS NOTED	28-T424-10	36-03-506	3

FEB 27 2000

APPROVED FOR CONSTRUCTION
REVISED
DESTROY PREVIOUS PRINT

NUW 004741

36-03-507



REVISED
DESTROY PREVIOUS PRINT

MAY 02 1999

RECEIVED MAY 04 '99

REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
2		RELEASED SECTION "D" FOR CONSTRUCTION	JFJ	BLK	5/2/00	ELK	WCS	
1		ADDED CONCRETE DETAILS	RFL	SSP	1/28/00	ELK	WCS	
0		APPROVED FOR CONSTRUCTION	JFJ	JSD	11/23/99	ELK	WCS	

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APPROVED FOR CONSTRUCTION — SIGNATURE — DATE
APPROVED FOR CONSTRUCTION — SIGNATURE — DATE
APPROVED FOR CONSTRUCTION — SIGNATURE — DATE

PROJ. MGR. J. KORETCHKO
DRAWN: J. DEMIDOVICH
DSN. LEAD: E. KLABER
DESIGNER: J. JAINHOTTA
DATE: 10/25/99
CAD FILE: 36035072.DWG

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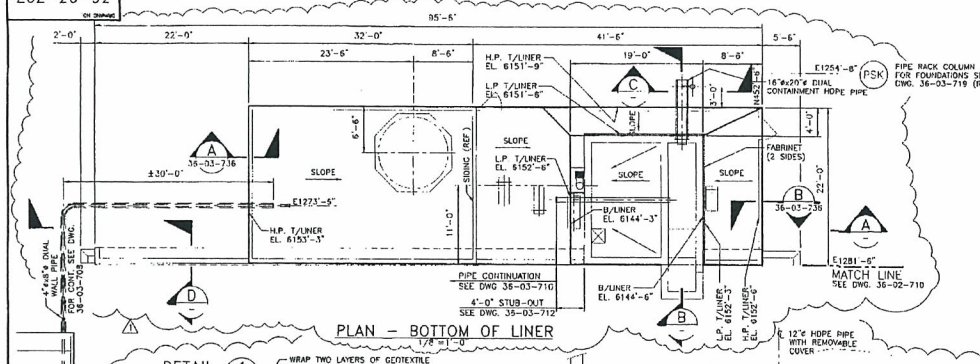
FMC CORPORATION
FES - Princeton, NJ

PURE PHOSPHORIC ACID PLANT
AT AGRIUM-CONDA PHOSPHATES
P.T.F SLAB AT GRADE
SECTIONS & DETAILS - SHEET 2

SCALE	ENCLR NO.	DRAWING NO.	REV.
AS NOTED	28-T424-10	36-03-507	2

NUW 004742

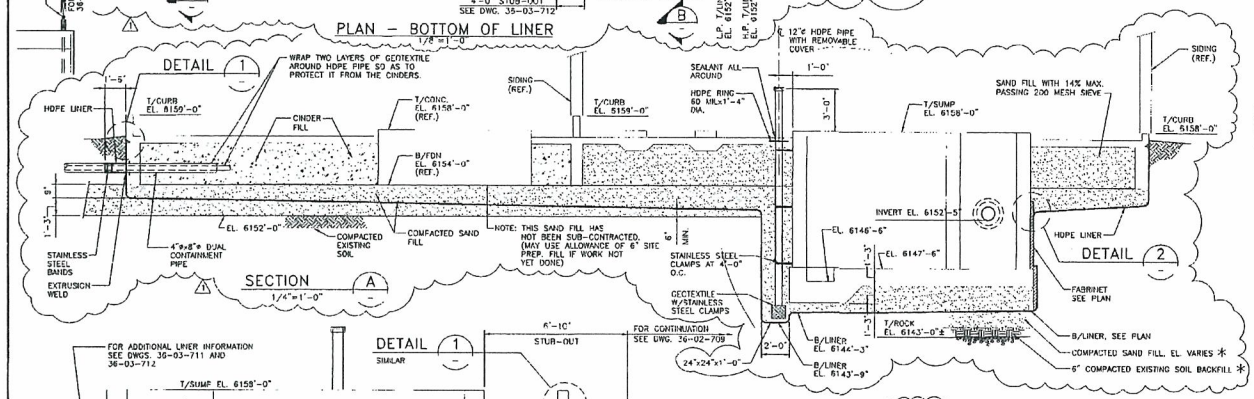
36-03-707

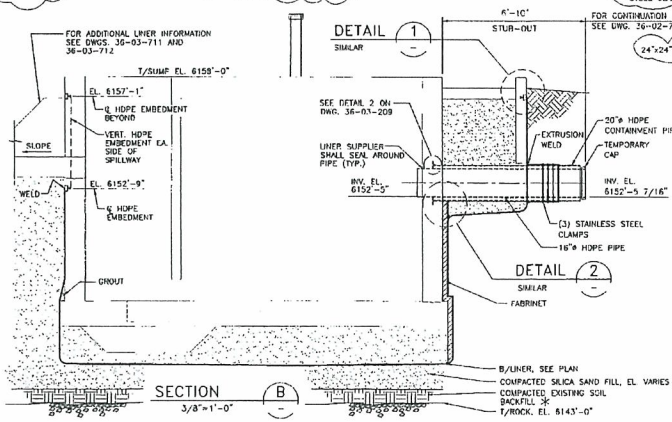


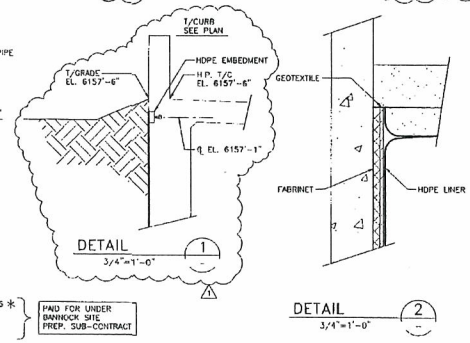
NOTES:

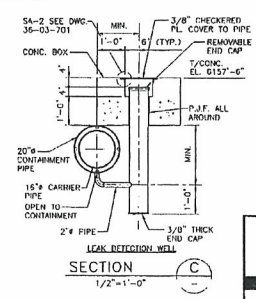
1. HDPE LINER SHALL BE 60 MIL THICK, GEOTEXTILE SHALL BE "GUNDFAB GEOTEXTILE" POLYFELT S-900 AND DRAIN NET SHALL BE "FABRINET" AS MANUF. BY GUNDLE OR APPROVED EQUAL.
2. HDPE EMBEDMENT SHALL BE "GUNDLOCK HDPE" AS MANUFACTURED BY GUNDLE LINING SYSTEMS, INC., HOUSTON, TEXAS (800/435-2008) OR APPROVED EQUAL.
3. LINER MATERIALS AND INSTALLATION SHALL BE PER SPECIFICATION 523005-1 SECONDARY CONTAINMENT LINER.
4. LINER, HDPE EMBEDMENT, CLAMPS, AND SLEEVES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATION 523005-1.
5. FILL MATERIALS, FILL PLACEMENT AND COMPACTION SHALL BE ACCORDING TO SPECIFICATION 521005-1. CINDER FILL SHALL HAVE NO MORE THAN 7% PASSING THE NO. 200 SIEVE. FILL BELOW THE EL. 6154'-0" SHALL HAVE NO MORE THAN 14% PASSING THE NO. 200 SIEVE. FILL ABOVE EL. 6154'-0", UNDER ROOFED, INSULATED STRUCTURES SHALL BE SILICA SAND WITH NO MORE THAN 14% PASSING THE NO. 200 MESH SIEVE.
6. FILL COMPACTION WITHIN 3 FEET OF LINER SHALL BE WITH MANUAL EQUIPMENT SO AS TO NOT DAMAGE LINER.
7. FOR FOUNDATIONS SEE DWGS. 36-03-709 AND 36-03-710. △1
8. FOR OILY WATER SUMP SEE DWGS. 36-03-711 & 712.
9. FOR UNDERGROUND GROUNDING SEE DWG. 36-07-714, 36-07-090, 36-07-091 AND 36-07-092. NOTE UNDERGROUND GROUNDING DOES NOT PENETRATE LINER.
9. LINER INSTALLATION SEQUENCE:
   AFTER OTHERS INSTALL SITE PREP. FIRST SAND FILL, LINER SUB-CONTRACTOR SHALL INSTALL HORIZONTAL PORTION OF LINER.
   LINER SUB-CONTRACTOR WILL BE CALLED BACK TO INSTALL VERTICAL PORTIONS OF LINER THAT TIE INTO CONCRETE FDN. LINER SUB-CONTRACTOR SHALL COORDINATE LINER INSTALLATION SCHEDULE WITH J.E. MERIT GENERAL CONTRACTORS.

LATER
- STEEL SUPPORT BEAMS FOR EMERGENCY POND INSTRUMENTATION.









RECEIVED MAR 03 2001 By

GRAPHIC SCALE
0' 4' 8' 12' 16' 20' 24'
SCALE: 1/8" = 1'-0"

- LINER AND ITS APPURTENANCES ARE BY FIELD LINING SYSTEMS INC. * BOTTOM 8" SOIL FILL AND SILICA SAND FILL UNDER O.W.S. IS BY BANNOCK PAVING AS PART OF SITE PREP. SUB-CONTRACT.
- ALL OTHER ITEMS SHALL BE FIELD PURCHASED.

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FMC CORPORATION
FES – Princeton, NJ

REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
1		REVISED SLOPS AREA FOUNDATIONS & CURBS	JFJ	RWD	2-25-01	ELK	WCS	
0		APPROVED FOR CONSTRUCTION	JFJ	RWD	4-11-00	ELK	WCS	

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APPROVED FOR CONSTRUCTION	PROJ MGR. J. KORETCHKO
E. KLABER 4-11-00	APPROVED R.W. DAVIS
SIGNATURE DATE	DSP. LEAD E. KLABER
APPROVED FOR CONSTRUCTION	DRAWN BY: J. JANNOTTA
W.C. STIEREN 4-11-00	DATE 10/28/99
SIGNATURE DATE	CAD FILE: 36037071.DWG
APPROVED FOR CONSTRUCTION	
SIGNATURE DATE	

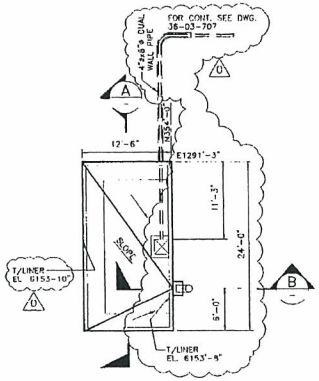
PURE PHOSPHORIC ACID PLANT
AT AGRIUM-CONDA PHOSPHATES
OILY WATER SEWER – SHEET NO. 1
SECONDARY CONTAINMENT LINER

SCALE	DRAWN NO.	DRAWING NO.	REV.
AS NOTED	28-T424-10	36-03-707	1

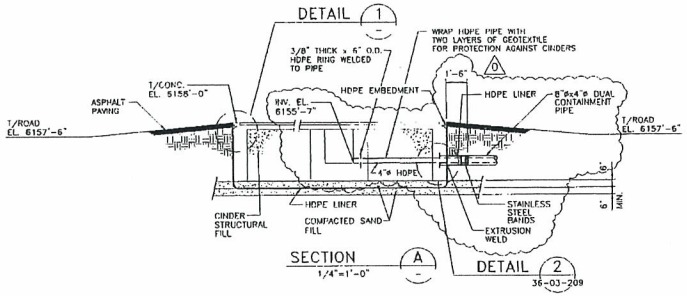
APPROVED FOR CONSTRUCTION
REVISED
DESTROY PREVIOUS PRINT
FEB 28 2001

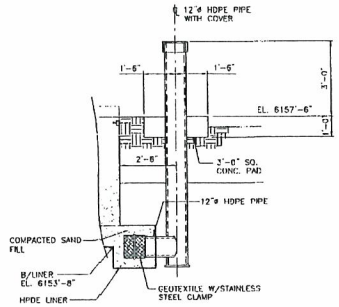
NUW 004743

36-03-708

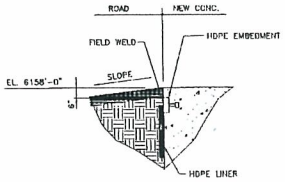


PLAN – BOTTOM OF LINER
1/8 =1'-0"





SECTION B
3/8"=1'-0"



DETAIL 1
N.T.S.

NOTES:

1. HDPE LINER SHALL BE 60 ML THICK, AND GEOTEXTILE SHALL BE "GUNDFAB GEOTEXTILE" POLYFELT S-600 OR APPROVED EQUAL.
2. HDPE EMBEDMENT SHALL BE "GUNDLOCK HDPE" AS MANUFACTURED BY GUNDLE LINING SYSTEMS, INC., HOUSTON, TEXAS (800/435-2008) OR APPROVED EQUAL.
3. LINER MATERIALS AND INSTALLATION SHALL BE PER SPECIFICATION 52300S-1 SECONDARY CONTAINMENT LINER.
4. LINER, HDPE EMBEDMENT, CLAMPS, AND SLEEVES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATION 52300S-1.
5. FILL MATERIALS, FILL PLACEMENT AND COMPACTION SHALL BE ACCORDING TO SPECIFICATION 52100S-1. FILL ABOVE EL. 6154'-0" SHALL HAVE NO MORE THAN 7% PASSING THE NO. 200 SIEVE. FILL BELOW THE EL. 6154'-0" SHALL HAVE NO MORE THAN 14% PASSING THE NO. 200 SIEVE.
6. FILL COMPACTION WITHIN 3 FEET OF LINER SHALL BE WITH MANUAL EQUIPMENT SO AS TO NOT DAMAGE LINER.
7. FOR FOUNDATION SEE DWGS. 36-03-709 AND 36-03-710.
8. LINER INSTALLATION SEQUENCE:
   AFTER OTHERS INSTALL SITE PREP. FIRST SAND FILL. LINER SUB-CONTRACTOR SHALL INSTALL HORIZONTAL PORTION OF LINER.
   LINER SUB-CONTRACTOR WILL RE CALLED BACK TO INSTALL VERTICAL PORTIONS OF LINER THAT TIE INTO VERTICAL WALL. LINER SUB-CONTRACTOR SHALL COORDINATE LINER INSTALLATION SCHEDULE WITH J.E. MERIT GENERAL CONTRACTORS.
10. 4"ø HDPE PIPE SHALL CONFORM TO SPECIFICATION 51900H2. INSTALLATION SHALL BE HYDROTESTED TO 5 PSI. TEST END PLUGS SHALL BE USED. SOIL FILL AROUND PIPE SHALL NOT BE INSTALLED UNTIL PIPE HAS BEEN TESTED AND NO LEAKS HAVE BEEN FOUND.

GRAPHIC SCALE
0' 4' 8' 12' 16' 20' 24'
SCALE: 1/8" = 1'-0"

- SECONDARY LINER, 12"ø HDPE PIPE AND IT'S APPURTENANCES ARE BY "FIELD LINING SYSTEMS INC."
- 4"ø x 8"ø DUAL CONTAINMENT PIPE SHALL BE FIELD PURCHASED.

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FMC CORPORATION
FES – Princeton, NJ

PURE PHOSPHORIC ACID PLANT
AT AGRIUM-CONDA PHOSPHATES
OILY WATER SEWER – SHEET NO. 2
SECONDARY CONTAINMENT LINER

SCALE	ORDER NO.	DRAWING NO.	REV.
AS NOTED	28-T424-10	36-03-708	0

REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
0		APPROVED FOR CONSTRUCTION						

REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD

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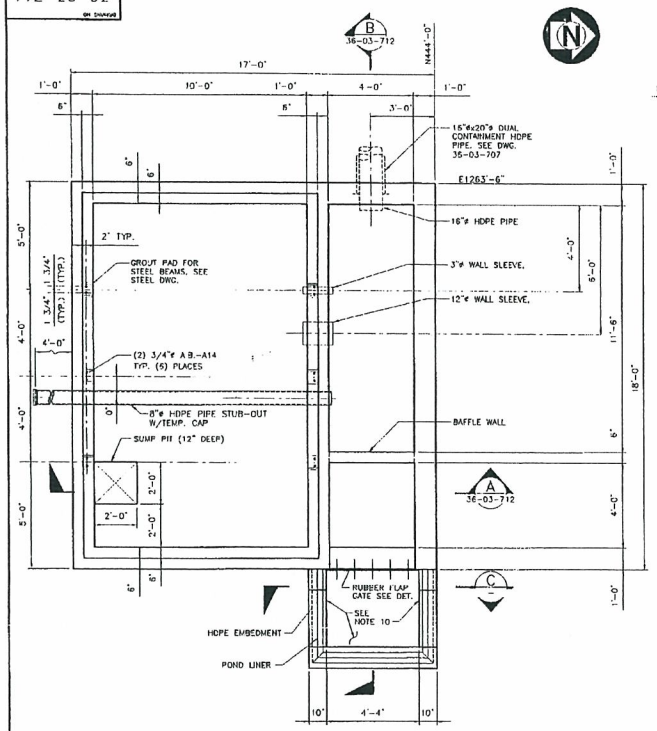
APPROVED FOR CONSTRUCTION — SIGNATURE — DATE
APPROVED FOR CONSTRUCTION — SIGNATURE — DATE
APPROVED FOR CONSTRUCTION — SIGNATURE — DATE

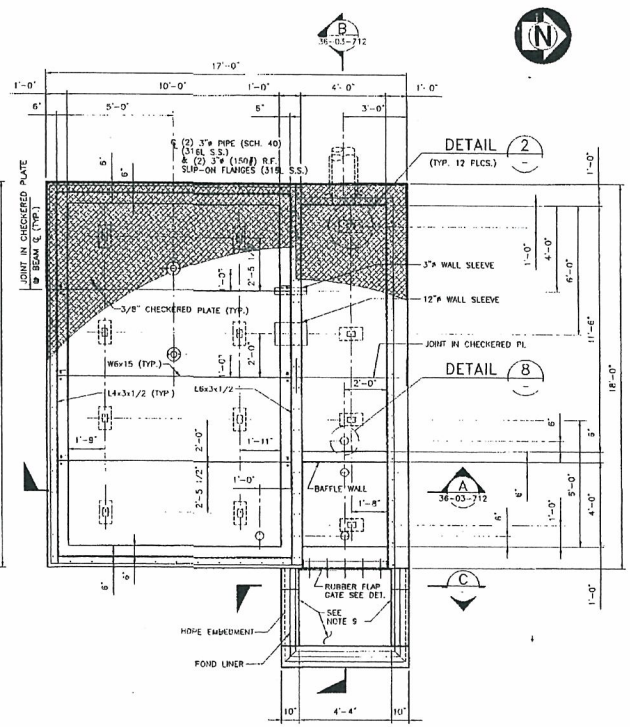
PROJ. MGR. J. KORETCHKO
CHECKED
DISP. LEAD E. KLABER
DRAWN BY J. JANNOTTA
DATE 10/29/99
CAD FILE 36037080.DWG

NUW 004744

36-03-711



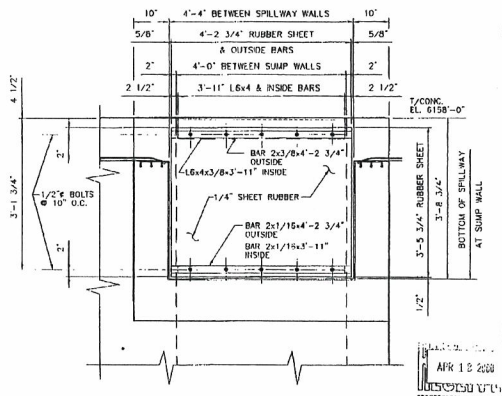
PLAN – CONCRETE
3/8"=1'-0"



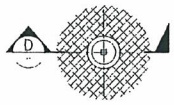
PLAN – STEEL
3/8"=1'-0"

NOTES:

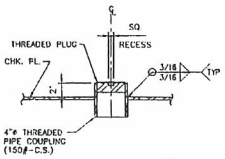
1. FOR CONCRETE GENERAL NOTES SEE DWG 36-04-701.
2. WORK DRAWINGS 36-03-711 & 36-03-712 TOGETHER.
3. REFER TO THE FOLLOWING DRAWINGS FOR EMBEDMENTS AND PENETRATIONS BEFORE STARTING CONSTRUCTION.
   SECONDARY CONTAINMENT LINER & UNDERGROUND PIPING DWGS. 36-03-707 AND 36-02-710.
   UNDERGROUND GROUNDING: DWGS. 36-07-714.
4. FOR SOIL COMPACTION REQUIREMENTS REFER TO SECONDARY LINER DRAWINGS.
5. SPLICE LENGTH FOR REBARS SHALL BE:
   #4 REBAR: 1'-6" (TOP BARS: 2'-0")
   NO MORE THAN 50% OF REBARS SHALL BE SPLICED AT ONE PLACE. SPLICE LOCATIONS SHALL BE KEPT TO A MINIMUM.
6. P.J.F DENOTES PREMOLDED JOINT FILLER. P.J.F SHALL BE ASPHALT IMPREGNATED FIBERBOARD CONFORMING TO ASTM D-1751 U.O.N.
7. SUMP LINER SHALL BE HDPE LINER IN ACCORDANCE WITH SPECIFICATION 57100S-1.
8. ALL EMBEDDED STEEL AND CHECKERED PLATE SHALL BE GALVANIZED OTHER STRUCTURAL STEEL SHALL BE COMERCIAL BLAST CLEANED AND COATED WITH 10 MIL D.F.T. COAL TAR EPOXY PAINT.
9. COAT CONCRETE SPILLWAY BOTTOM AND SIDES BETWEEN SUMP LINER AND POND LINER WITH 3/16" THICKNESS PENNTROWEL VINYL ESTER L/F SEE DETAILS 6 & 7 ON DWG. 36-03-712.
10. HOLES IN CHECKERED PLATE FOR PUMPS SUCTION PIPES BY FIELD.
11. PROCESS AREA 10. REBAR SHIPMENTS SHALL HAVE WHITE COLOR TAGS.



DETAIL OF RUBBER FLAP GATE
3/4"=1'-0"

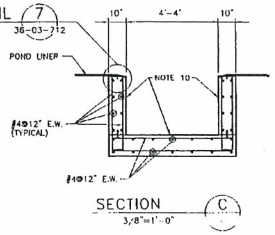


DETAIL 8
1 1/2"=1'-0"
(TYPICAL 3 PLACES)

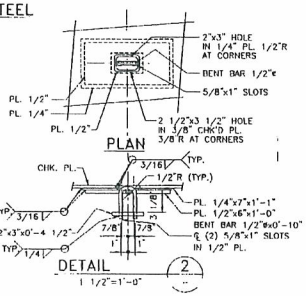


SECTION D
1 1/2"=1'-0"

DETAIL 7
(SIMILAR) 36-03-712



SECTION C
3/8"=1'-0"



GRAPHIC SCALE
0' 1' 2' 3' 4' 5'
SCALE: 3/8" = 1'-0"

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SIGNATURE	DATE
APPROVED FOR CONSTRUCTION	
SIGNATURE	DATE
APPROVED FOR CONSTRUCTION	
SIGNATURE	DATE

PROJ. MGR.	J. KOPETCHKO
CHECKED	
DWG. LEAD	E. KLABER
DRAWN BY	B. AIKENS
DATE	12/08/99
CAD FILE	36037110.DWG

JACOBS ENGINEERING
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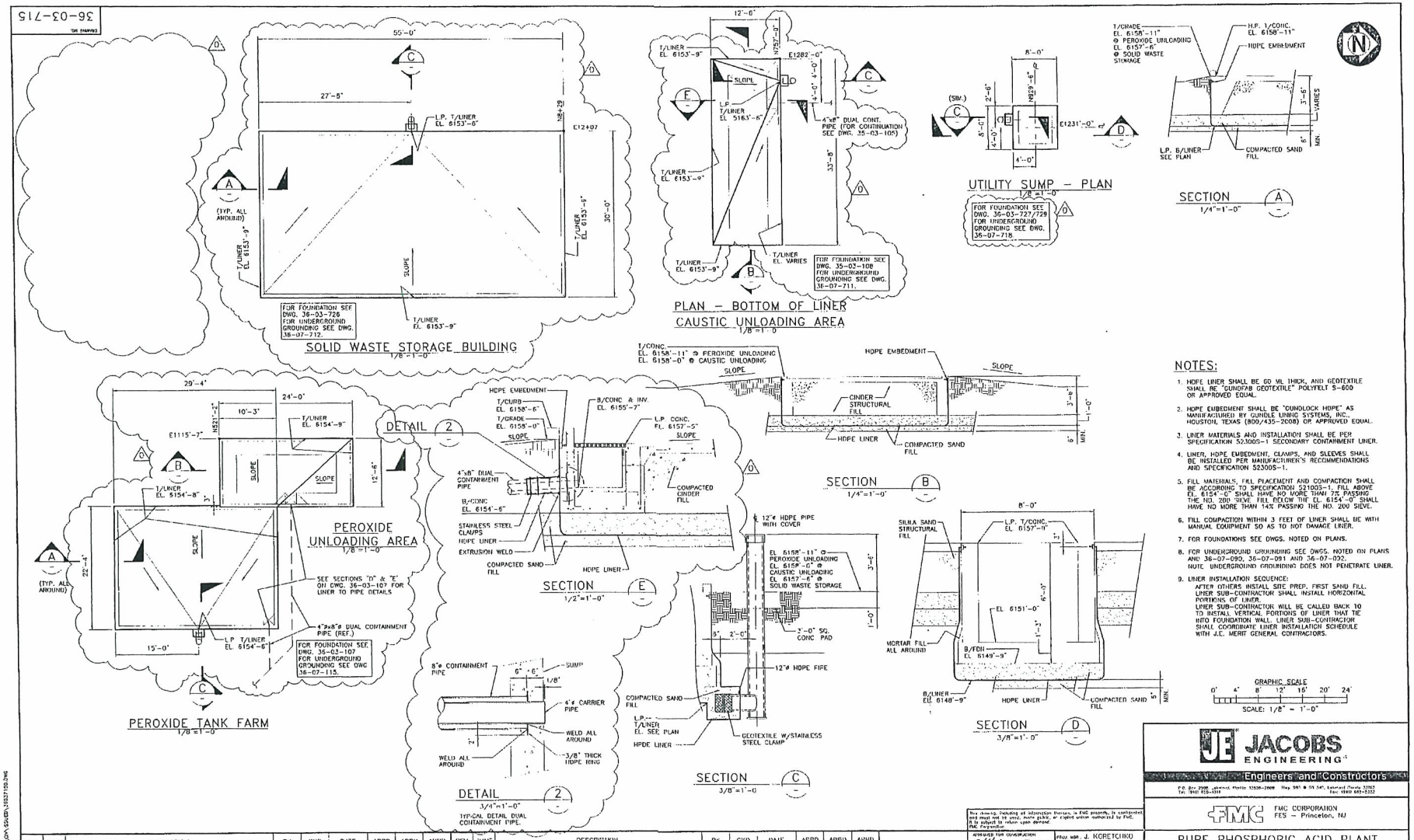
FMC CORPORATION
FES – Princeton, NJ

PURE PHOSPHORIC ACID PLANT
AT AGRIUM-CONDA PHOSPHATES
OILY WATER SEWER SUMP
PLAN

SCALE	ORDER NO.	DRAWING NO.	REV.
3/8"=1'-0"	28-T424-10	36-03-711	0

REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD	REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
									0		APPROVED FOR CONSTRUCTION						

NUW 004745


36-03-715
SOLID WASTE STORAGE BUILDING
1/8"=1'-0"
PLAN - BOTTOM OF LINER
CAUSTIC UNLOADING AREA
1/8"=1'-0"
UTILITY SUMP - PLAN
1/8"=1'-0"
SECTION A
1/4"=1'-0"
PEROXIDE UNLOADING AREA
1/8"=1'-0"
PEROXIDE TANK FARM
1/8"=1'-0"
DETAIL 2
SECTION E
1/2"=1'-0"
SECTION B
1/4"=1'-0"
SECTION D
3/8"=1'-0"
SECTION C
3/8"=1'-0"
DETAIL 2
3/4"=1'-0"
TYPICAL DETAIL DUAL CONTAINMENT PIPE.
NOTES:
1. HDPE LINER SHALL BE 60 MIL THICK, AND GEOTEXTILE SHALL BE "GUNDAB GEOTEXTILE" POLYFELT S-600 OR APPROVED EQUAL.
2. HDPE EMBEDMENT SHALL BE "GUNDLOCK HDPE" AS MANUFACTURED BY GUNDLE LINING SYSTEMS, INC., HOUSTON, TEXAS (800/435-2008) OR APPROVED EQUAL.
3. LINER MATERIALS AND INSTALLATION SHALL BE PER SPECIFICATION 52300S-1 SECONDARY CONTAINMENT LINER.
4. LINER, HDPE EMBEDMENT, CLAMPS, AND SLEEVES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATION 52300S-1.
5. FILL MATERIALS, FILL PLACEMENT AND COMPACTION SHALL BE ACCORDING TO SPECIFICATION 521005-1. FILL ABOVE EL. 6154'-0" SHALL HAVE NO MORE THAN 7% PASSING THE NO. 200 SIEVE. FILL BELOW THE EL. 6154'-0" SHALL HAVE NO MORE THAN 14% PASSING THE NO. 200 SIEVE.
6. FILL COMPACTION WITHIN 3 FEET OF LINER SHALL BE WITH MANUAL EQUIPMENT SO AS TO NOT DAMAGE LINER.
7. FOR FOUNDATIONS SEE DWGS. NOTED ON PLANS.
8. FOR UNDERGROUND GROUNDING SEE DWGS. NOTED ON PLANS AND 36-07-090, 36-07-091 AND 36-07-092. NOTE: UNDERGROUND GROUNDING DOES NOT PENETRATE LINER.
9. LINER INSTALLATION SEQUENCE:
AFTER OTHERS INSTALL SITE PREP. FIRST SAND FILL. LINER SUB-CONTRACTOR SHALL INSTALL HORIZONTAL PORTIONS OF LINER.
LINER SUB-CONTRACTOR WILL BE CALLED BACK TO TO INSTALL VERTICAL PORTIONS OF LINER THAT TIE INTO FOUNDATION WALL. LINER SUB-CONTRACTOR SHALL COORDINATE LINER INSTALLATION SCHEDULE WITH J.C. MERIT GENERAL CONTRACTORS.
GRAPHIC SCALE
SCALE: 1/8" = 1'-0"
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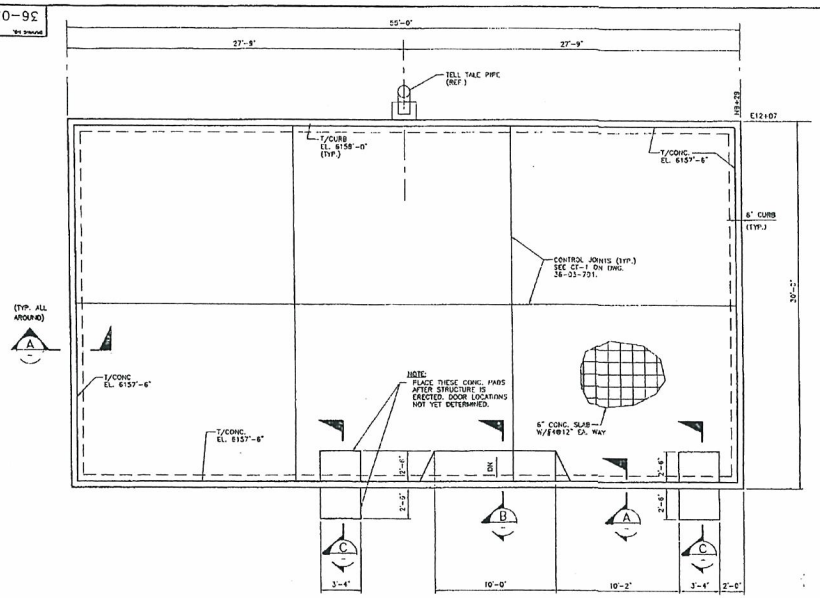
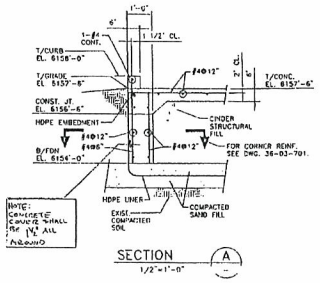
FMC CORPORATION
FES - Princeton, NJ
PURE PHOSPHORIC ACID PLANT
AT AGRIUM-CONDA PHOSPHATES
MISCELLANEOUS STRUCTURES
SECONDARY CONTAINMENT LINER
AS NOTED
28-T424-10
36-03-715
0
APPROVED FOR CONSTRUCTION
J. KORETCHKO
E. KLABER
J. JANNOTTA
10/20/99
36037150.DWG

NUW 004746

36-03-726



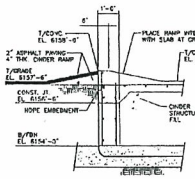
SULFIDING WASTE STORAGE – STRUCTURE FOUNDATION
1/4"=1'-0"



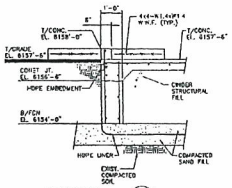
SECTION A
1/2"=1'-0"

NOTES:

1. FOR CONCRETE GENERAL NOTES SEE, DWG. 36-04-701
2. REFER TO THE FOLLOWING DRAWINGS FOR EMBEDMENTS AND PENETRATIONS BEFORE STARTING CONSTRUCTION.
   SECONDARY CONTAINMENT LINER: DWG. 36-03-715.
   UNDERGROUND GROUNDING: DWGS. 36-07-090, 36-07-091 AND 36-07-112.
3. SAND SHALL BE COMPACTED TO 85% MAX. PROCTOR DENSITY AND CINDERS SHALL BE COMPACTED TO 90% MAX. PROCTOR DENSITY. ALL IN ACCORDANCE WITH SPECIFICATION 52100S-1.
4. FLOOR FINISH SHALL BE A LIGHT BROOM FINISH AFTER A SINGLE STEEL TROWELLING.
5. JOINT SEALANT SHALL BE FLEXJOINT POLYSULFIDE JOINT SEALANT AS MANUFACTURED BY ELF ATOCHEM. JOINTS SHALL BE PRIMED WITH FLEXJOINT POLYSULFIDE PRIMER.
6. DO NOT USE CURING COMPOUNDS OR RELEASE AGENTS ON FLOOR SURFACE.
7. SPLICE LENGTH FOR REBARS SHALL BE: #4 REBAR: 1'-7" (TOP BARS, 2'-0")
   NO MORE THAN 50% OF REBARS SHALL BE SPLICED AT ONE PLACE. SPLICE LOCATIONS SHALL BE KEPT TO A MINIMUM.
8. P.J.F DENOTES PREMOLDED JOINT FILLER
   P.J.F SHALL BE ASPHALT IMPREGNATED FIBERBOARD CONFORMING TO ASTM D-1751 U.O.N.
9. REBAR SHIPMENTS SHALL COLOR CODED WHITE
10. PROCESS AREA 10



SECTION B
1/2"=1'-0"



SECTION C
1/2"=1'-0"

GRAPHIC SCALE
0' 2' 4' 6' 8' 12' 16'
SCALE: 3/16" = 1'-0"

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PURE PHOSPHORIC ACID PLANT
AT AGRIUM-CONDA PHOSPHATES
SULFIDING WASTE STORAGE STRUCTURE
FOUNDATION

REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
0		APPROVED FOR CONSTRUCTION	BK	BK	7-7-00	EK	WY	

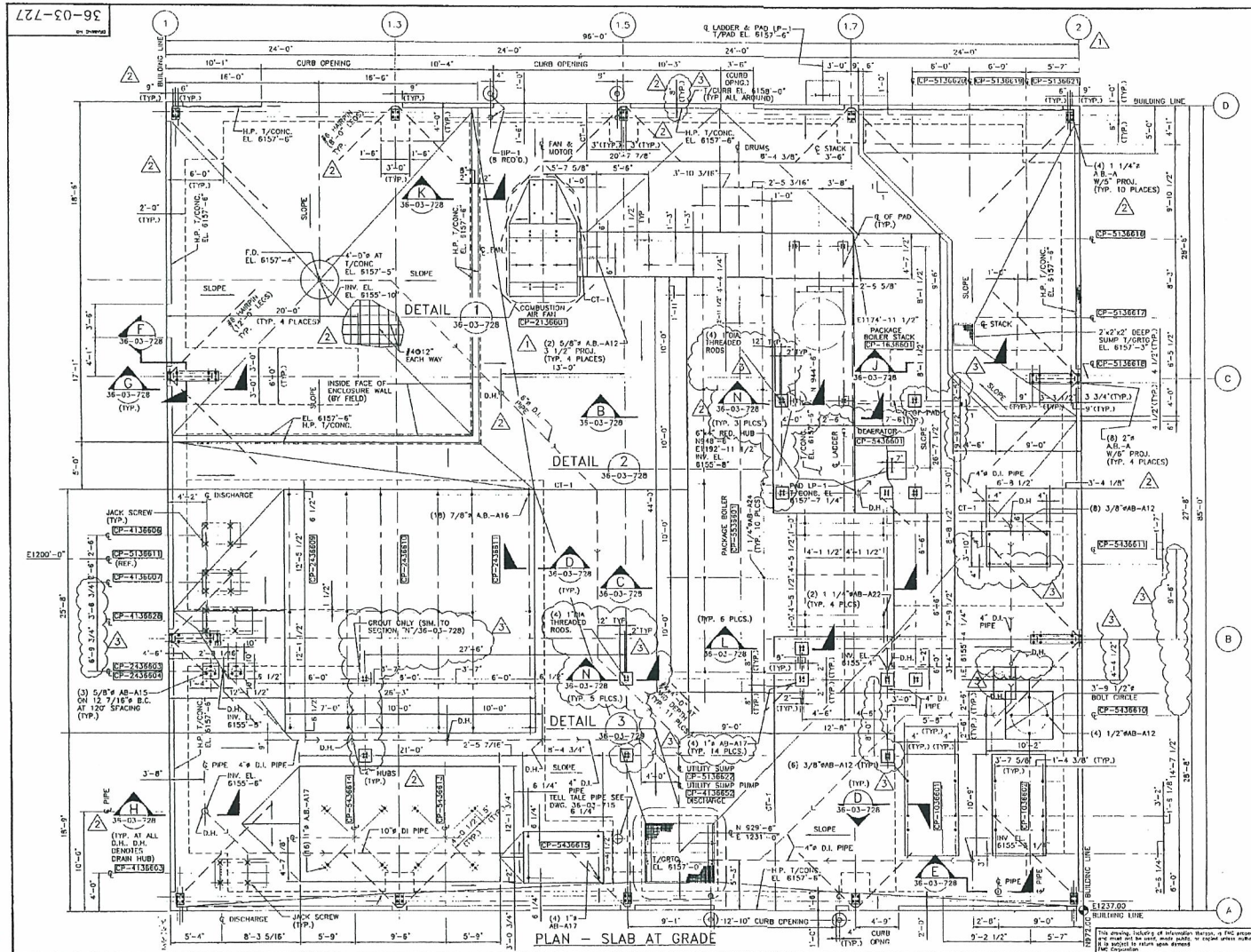
APPROVED FOR CONSTRUCTION	DRAWN BY: J. KORETCHKO	
APPROVED FOR CONSTRUCTION	DESIGN: E. KLASICH	
APPROVED FOR CONSTRUCTION	DRAWING NO: J. JANNOTTA	
APPROVED FOR CONSTRUCTION	DATE: 3/20/00	
	CAD FILE: 36037260.DWG	

SCALE	DWG NO	APPROVED NO	REV
3/16"=1'-0"	28-T424-10	36-03-726	0

JUL 10 2000 APPROVED FOR CONSTRUCTION

NUW 004747

36-03-727



PLAN – SLAB AT GRADE

NOTES:

1. FOR CONCRETE GENERAL NOTES SEE DWG. 36-04-701.
2. WORK DRAWINGS 36-03-727, 36-03-728, AND 36-03-729 TOGETHER.
3. PROCESS AREA: 10 (UTILITY STRUCTURES)
4. REBAR SHIPMENTS SHALL BE COLOR CODED WHITE.
5. REFER TO THE FOLLOWING DRAWINGS FOR EMBEDMENTS AND PENETRATIONS BEFORE STARTING CONSTRUCTION.
   UNDERGROUND PIPING: DWGS. 36-02-707 & 36-02-713.
   UNDERGROUND GROUNDING: DWGS. 36-07-718, 36-07-090, 36-07-091 & 36-07-092.
6. FILL MATERIALS, FILL PLACEMENT AND COMPACTION SHALL BE ACCORDING TO SPECIFICATION 521005-1. ALL FILL SHALL HAVE NO MORE THAN 14% PASSING THE NO. 200 SIEVE.
7. INTERIOR SURFACES OF SUMP SHALL BE CURED USING POLYVINYL SHEETS AND HEATING BLANKETS. CURING COATINGS, HARDENERS OR SEALANTS SHALL NOT BE USED.
8. SUMP COATING SHALL BE "PENNTROWEL" VE L/F, 3/16" THICK.
9. SUMP GRATING SHALL BE GALVANIZED STEEL.
10. SPLICE LENGTH FOR REBARS SHALL BE:
    #4 REBAR: 1'-7" (TOP BARS: 2'-0")
    #6 REBAR: 2'-4" (TOP BARS: 3'-0")
    #8 REBAR: 3'-3" (TOP BARS: 4'-3")
    NO MORE THAN 50% OF REBARS SHALL BE SPLICED AT ONE PLACE. SPLICE LOCATIONS SHALL BE KEPT TO A MINIMUM.
11. EMBEDDED STEEL SHALL BE GALVANIZED.
12. ADHESIVE WATERSTOP SHALL BE "SYNKO-FLEX" ADHESIVE WATERSTOP AS MANUF. BY SYNKO-FLEX PRODUCTS OR APPROVED EQUAL.
13. P.J.F DENOTES PREMOLDED JOINT FILLER. P.J.F SHALL BE ASPHALT IMPREGNATED FIBERBOARD CONFORMING TO ASTM D-1751 U.O.N.
14. JOINT SEALANT SHALL BE FLEXJOINT POLYSULFIDE JOINT SEALANT AS MANUFACTURED BY ELF ATOCHEM. JOINTS SHALL BE PRIMED WITH FLEXJOINT POLYSULFIDE PRIMER.
15. CT-1 DENOTES CONTROL JOINT SEE DWG. 36-03-701.
16. BF-1 DENOTES BARRIER POST. SEE DETAIL ON DWG. 36-03-701.
17. FLOOR FINISH SHALL BE A LIGHT BROOM FINISH AFTER A SINGLE STEEL TROWELLING.
18. FIELD MAY SUBSTITUTE HILTI HIT HY-150 ADHESIVE ANCHORS FOR 5/8" AND SMALLER DIAMETER ANCHOR BOLTS.
19. ALL EQUIPMENT PADS AT T/CONC. EL. 6157'-11", UON.
20. ANCHOR BOLT PROJECTIONS SHALL BE SAME AS THD. LENGTH LISTED ON DWG. 36-03-703, U.O.N..

LATER:
TANKS: CP-5136616/617/618/619/620 & 621.
FILTERS: CP-2436607/608.

GRAPHIC SCALE
0' 2' 4' 6' 8' 12' 16'
SCALE: 3/16" = 1'-0"

FIELD SHALL PURCHASE ALL ITEMS ON THIS DRAWING EXCEPT SUMP COATING

REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
3		ADDED COLUMN PIERS.	JFJ	ELK	9-8-00	ELK	WCS	
2		ADDED ANCHOR BOLTS, REVISED FDN. SIZE @ "C" & "B" AND ADDED UNDERGROUND LINES	JFJ	ELK	6-21-00	ELK	WCS	
1		APPROVED FOR CONSTRUCTION REST OF FOUNDATIONS	RL	KAL	6-1-00	ELK	WCS	
0		APPROVED FOR CONSTRUCTION OF BOILER FDN. ONLY	SSP	CNN	4-6-00	ELK	WCS	

APPROVED FOR CONSTRUCTION
E. KLABER 4-6-00 SIGNATURE DATE
APPROVED FOR CONSTRUCTION
W.C. STIEREN 4-6-00 SIGNATURE DATE
APPROVED FOR CONSTRUCTION
W.D. CHAWLESS 4-6-00 SIGNATURE DATE

PROJ. MGR.: J. KORETCHKO
CHECKED: C. NGUYEN
DSP. LEAD: E. KLABER
DESIGNATION: C. BASEL
DATE: 2/10/00
CAD FILE: 36037273.DWG

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FMC CORPORATION
FES – Princeton, NJ

PURE PHOSPHORIC ACID PLANT
AT AGRIUM-CONDA PHOSPHATES
UTILITY STRUCTURE
FOUNDATIONS – SHEET 1

SCALE	CADD NO.	DRAWING NO.	REV.
3/16"=1'-0"	28-T424-10	36-03-727	3

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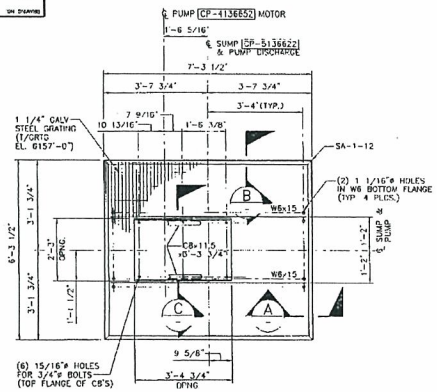
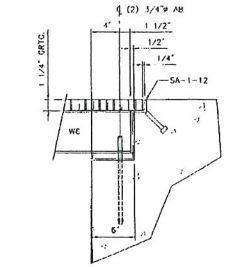
DESTROY PREVIOUS PRINT

36-03-729

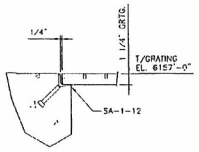


FOR DIMENSIONS NOT SHOWN ON PLAN, SEE SECT. C
FOR LOCATION SEE DWG 36-03-727

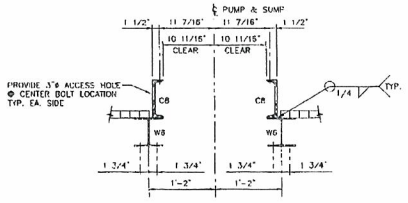
PLAN – UTILITY BUILDING SUMP
1/2"=1'-0"



SECTION A
1 1/2"=1'-0"

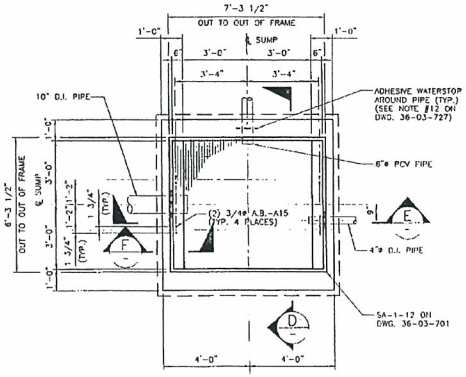


SECTION B
1 1/2"=1'-0"

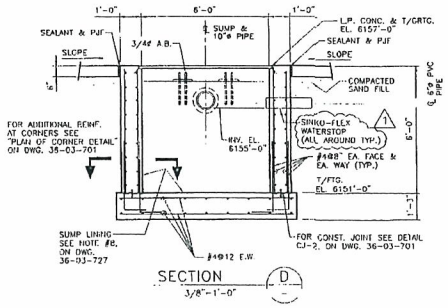


SECTION C
1"=1'-0"

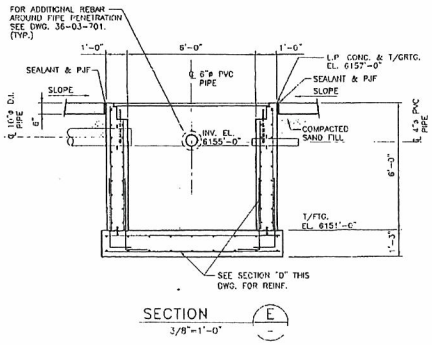
(TYP. ALL PLANS THIS DRAWING)



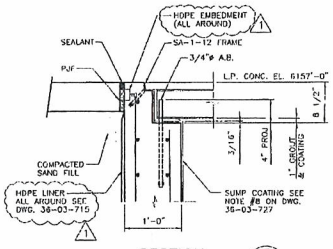
DETAIL 3
3/8"=1'-0" 36-03-727



SECTION D
3/8"=1'-0"



SECTION E
3/8"=1'-0"



SECTION F
1"=1'-0"

NOTES:

1. WORK THIS DRAWING WITH DRAWING 36-03-727.
2. FOR FILL AND COMPACTION NOTES SEE SECTION "A" DWG. 36-03-728 AND NOTE 6 ON DWG. 36-03-727

RECEIVED JUN 23 2000

FIELD SHALL PURCHASE ALL ITEMS ON THIS DRAWING, EXCEPT THE SUMP COATING.

JACOBS ENGINEERING
Engineers and Constructors
P.O. Box 29404, Lakeland, Florida 33804-2804 Hwy 655 @ SR 540, Lakeland Florida 33813
Tel: (941) 965-3511 Fax: (941) 965-3325

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FES – Princeton, NJ

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APPROVED FOR CONSTRUCTION		
E. KLABER	5-1-00	
SIGNATURE	DATE	
APPROVED FOR CONSTRUCTION		
W. STEREN	6-1-00	
SIGNATURE	DATE	
APPROVED FOR CONSTRUCTION		
W.B. CHAMBLESS	6-1-00	
SIGNATURE	DATE	

PROJ. MGR. J. KORETCHKO
CHECKED: K. LEHMKER
DISP. LEAD: E. KLABER
DRAWN BY: J. JANNOTTA
DATE: 3/6/00
CAD FILE: 36037291.DWG

PURE PHOSPHORIC ACID PLANT
AT AGRIUM–CONDA PHOSPHATES
UTILITY STRUCTURE
FOUNDATIONS – SHEET 3

SCALE	DRAWN NO.	DRAWING NO.	REV
AS NOTED	28-T424-10	36-03-729	1

REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
1		REVISED SECTIONS "D" AND "F"	JEJ	ELK	6-21-00	ELK	WCS	
0		APPROVED FOR CONSTRUCTION	RFL	KAL	6-1-00	ELK	WCS	

(REV 0)

ISSUED FOR CONSTRUCTION
NO ALTERNATES PLEASE

PREVIOUS PRINT

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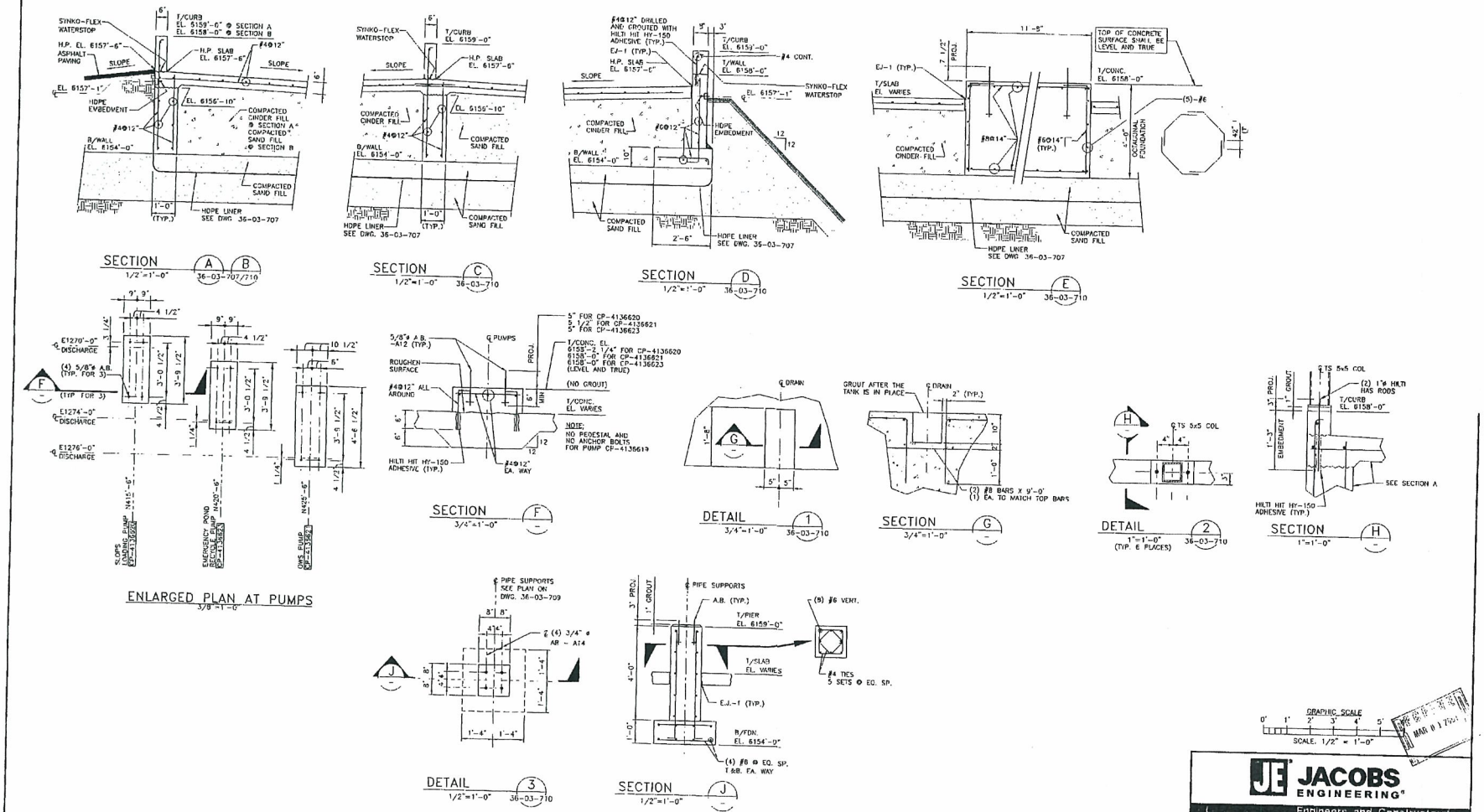

REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD	REV	ZONE	DESCRIPTION	BY	CKD	DATE	APPD	APPD	APPD
									0		APPROVED FOR CONSTRUCTION		KAL	2-28-01			

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APPROVED FOR CONSTRUCTION — SIGNATURE — DATE

PROJ. MGR. J. KORETCHKO
CHECKER K. LEHMKER
DSP. LEAD E. KLABEN
DRAWN BY K. FRUGE
DATE 2/20/01
CAD FILE 36037360.DWG

JACOBS ENGINEERING
Engineers and Constructors

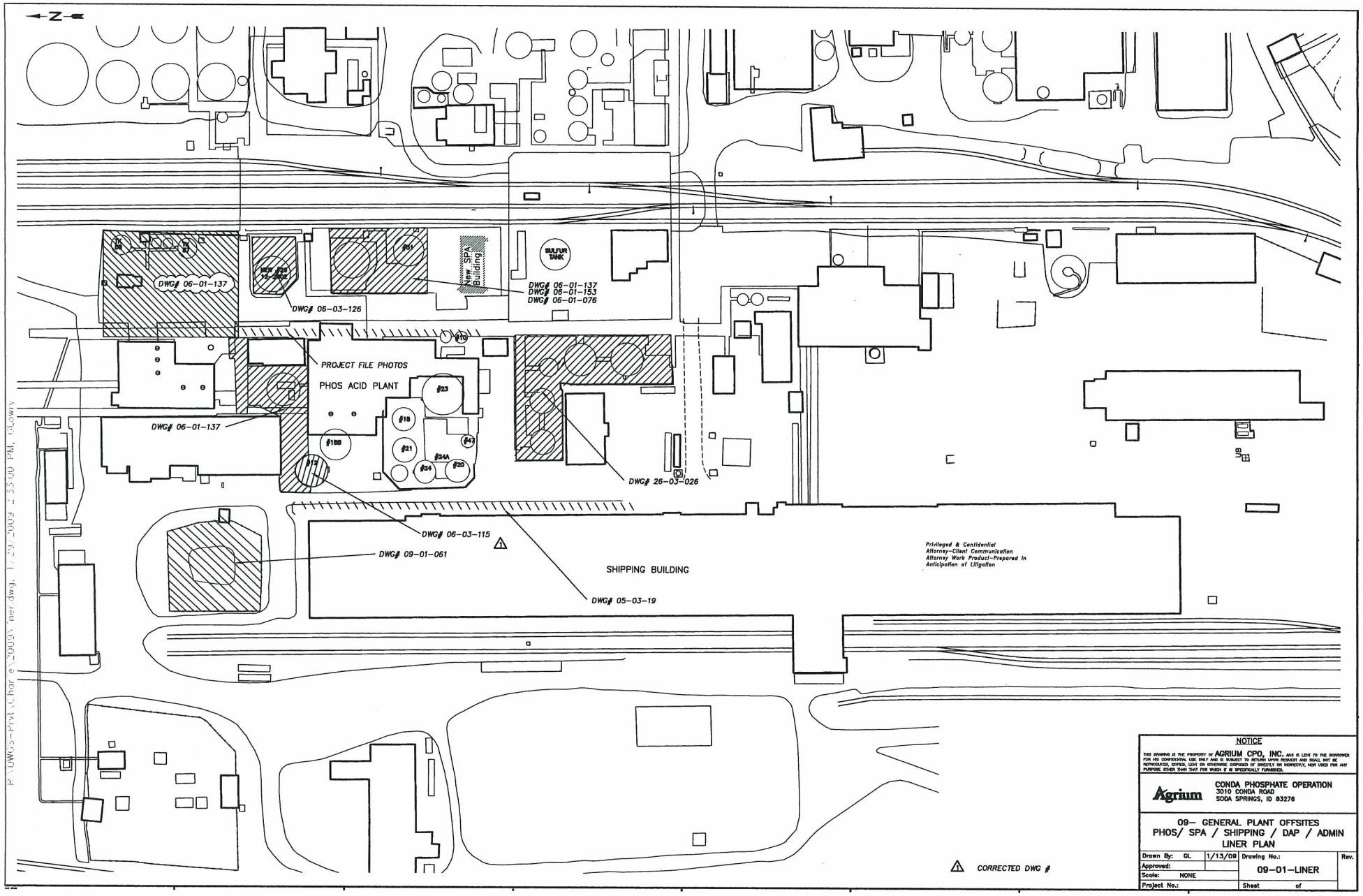
FMC CORPORATION
FES – Princeton, NJ

PURE PHOSPHORIC ACID PLANT AT AGRIUM-CONDA PHOSPHATES SLOPS AREA FOUNDATIONS SECTIONS & DETAILS

SCALE	ORDER NO.	DRAWING NO.	REV.
AS NOTED	28-T424-10	36-03-736	0

FEB 28 2001

NUW 004750



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Agrium

CONDA PHOSPHATE OPERATION
3010 CONDA ROAD
SODA SPRINGS, ID 83276

09- GENERAL PLANT OFFSITES
PHOS/ SPA / SHIPPING / DAP / ADMIN
LINER PLAN

Drawn By: GL	1/13/09	Drawing No.:	Rev.
Approved:		09-01-LINER	
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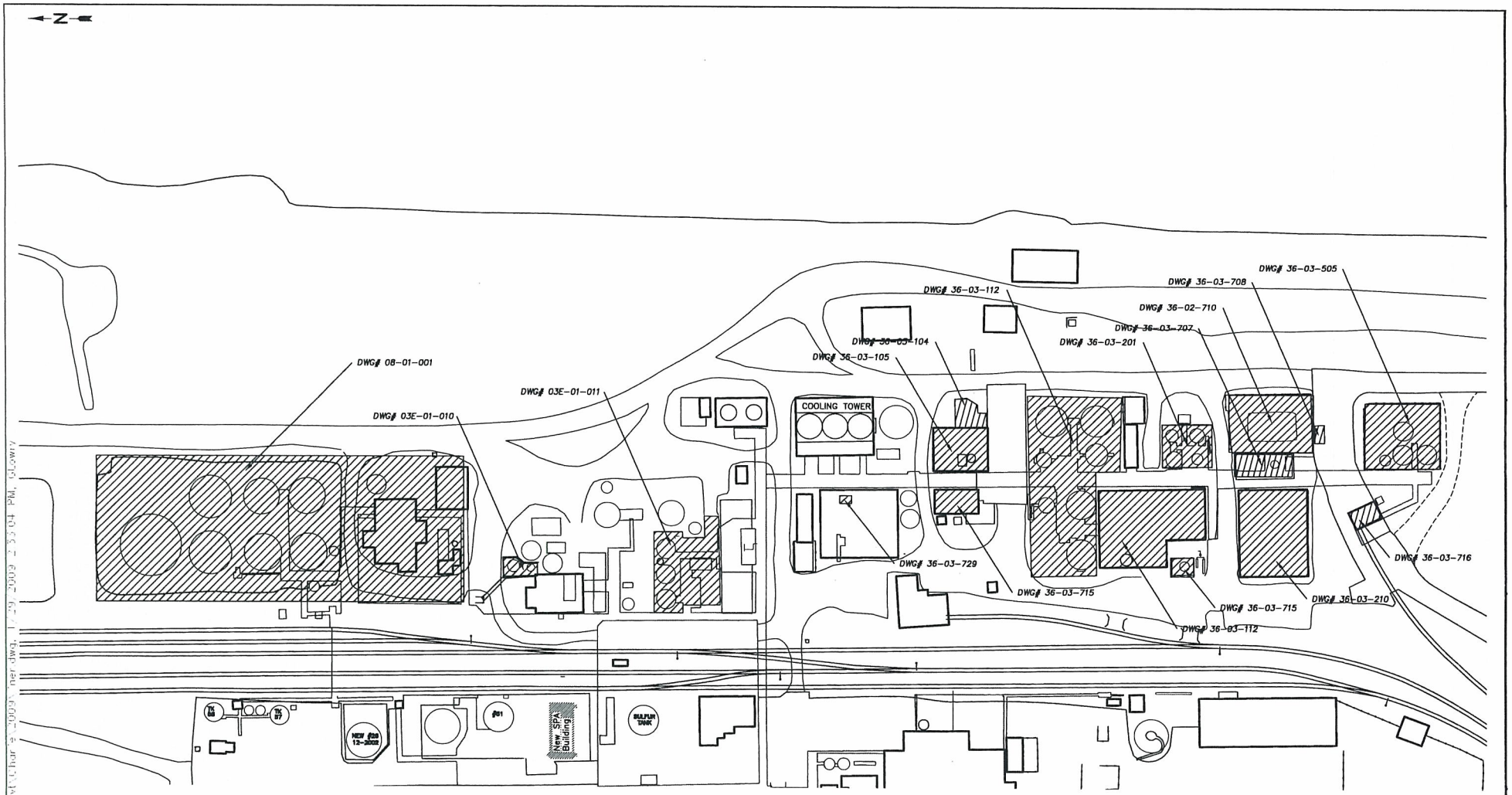

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Anticipation of Litigation

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Agrium

CONDA PHOSPHATE OPERATION
3010 CONDA ROAD
SODA SPRINGS, ID 83276

09- GENERAL PLANT OFFSITES
NORTH & EAST SULFURIC, PPA
LINER PLAN

Drawn By: GL	1/13/09	Drawing No.:	Rev.
Approved:		09-01-LINER	
Scale: NONE			
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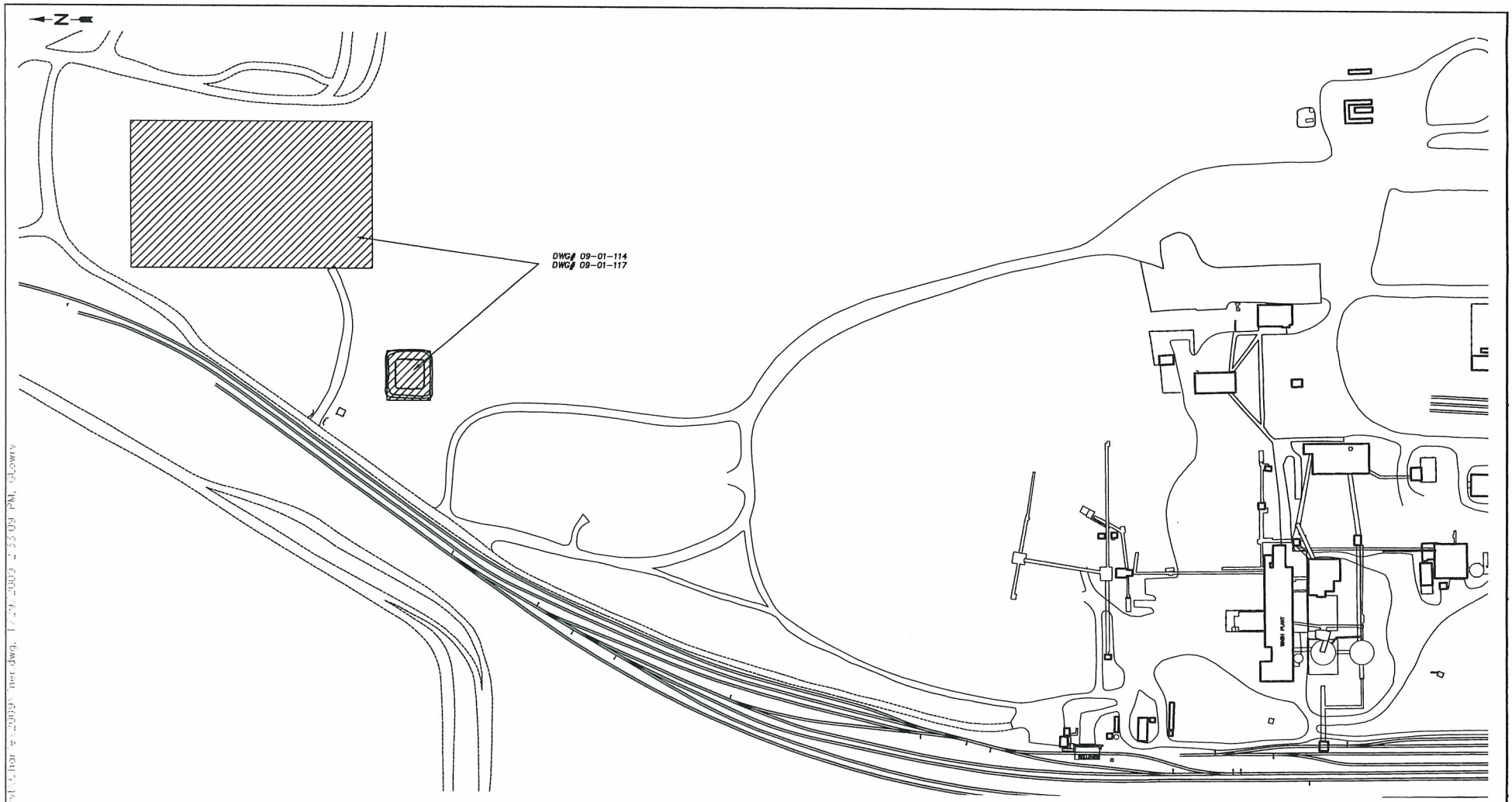

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CONDA PHOSPHATE OPERATION
3010 CONDA ROAD
SODA SPRINGS, ID 83276

09- GENERAL PLANT OFFSITES
NORTH END
LINER PLAN

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Approved:		09-01-LINER	
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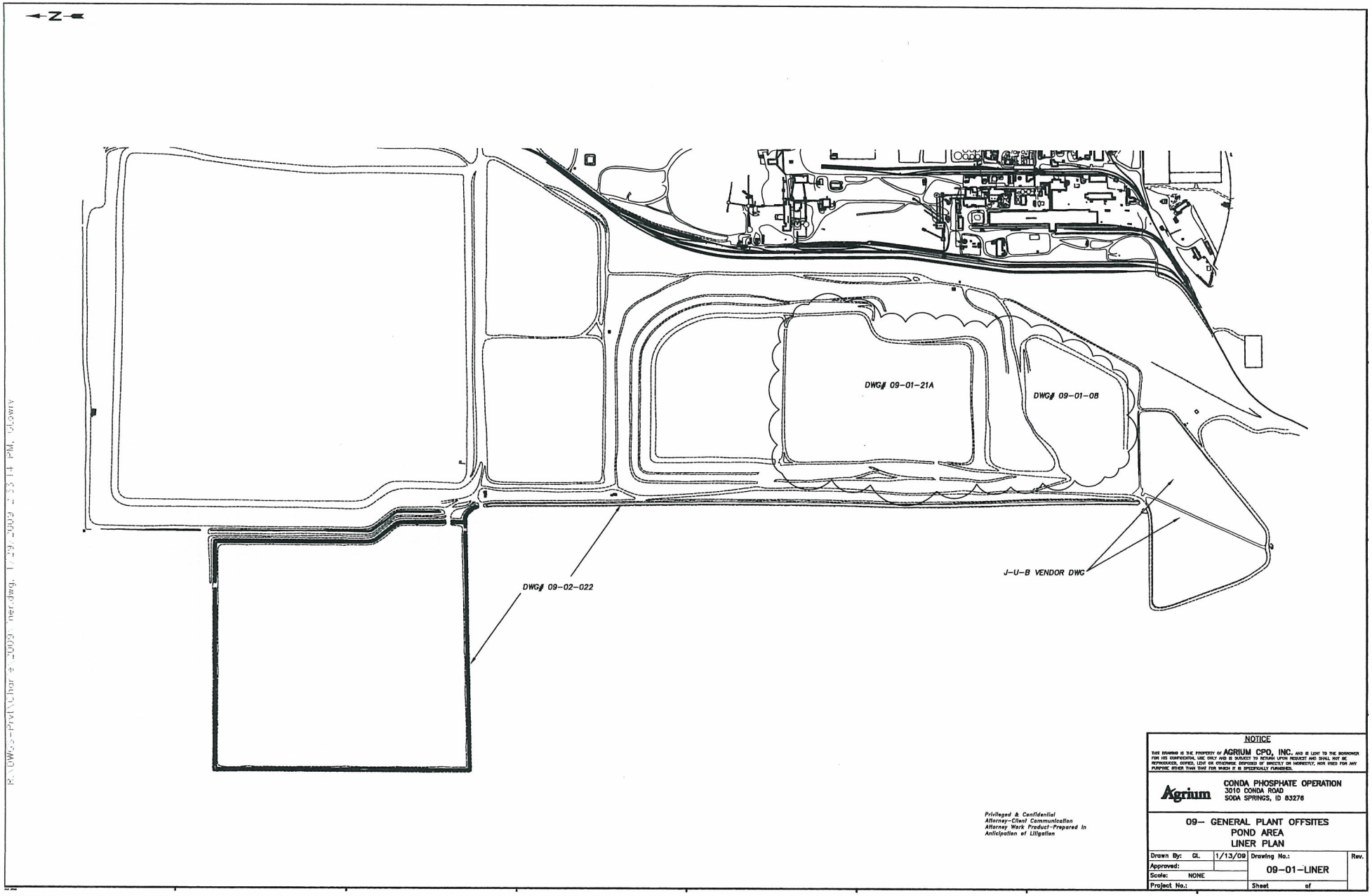
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DWG# 09-01-08
DWG# 09-02-022
J-U-B VENDOR DWG
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CONDA PHOSPHATE OPERATION
3010 CONDA ROAD
SODA SPRINGS, ID 83276
09- GENERAL PLANT OFFSITES
POND AREA
LINER PLAN
Drawn By: GL
1/13/09
Drawing No.:
09-01-LINER
Rev.
Approved:
Scale: NONE
Project No.:
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