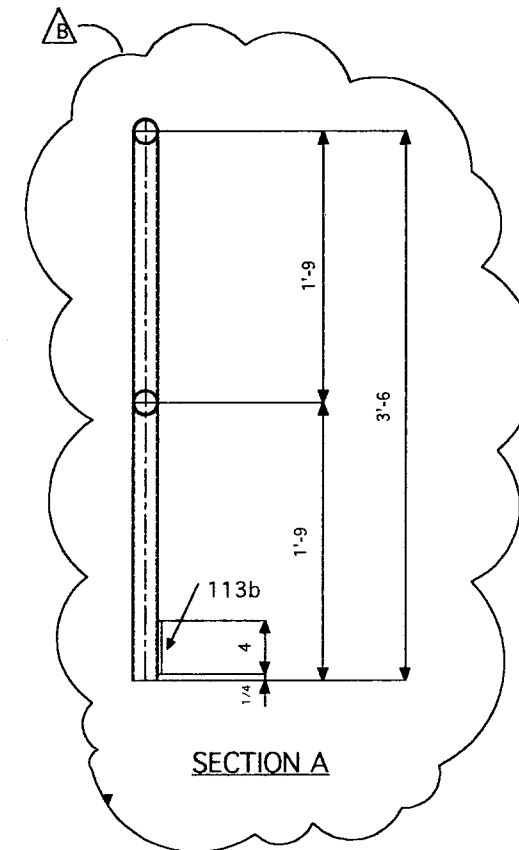
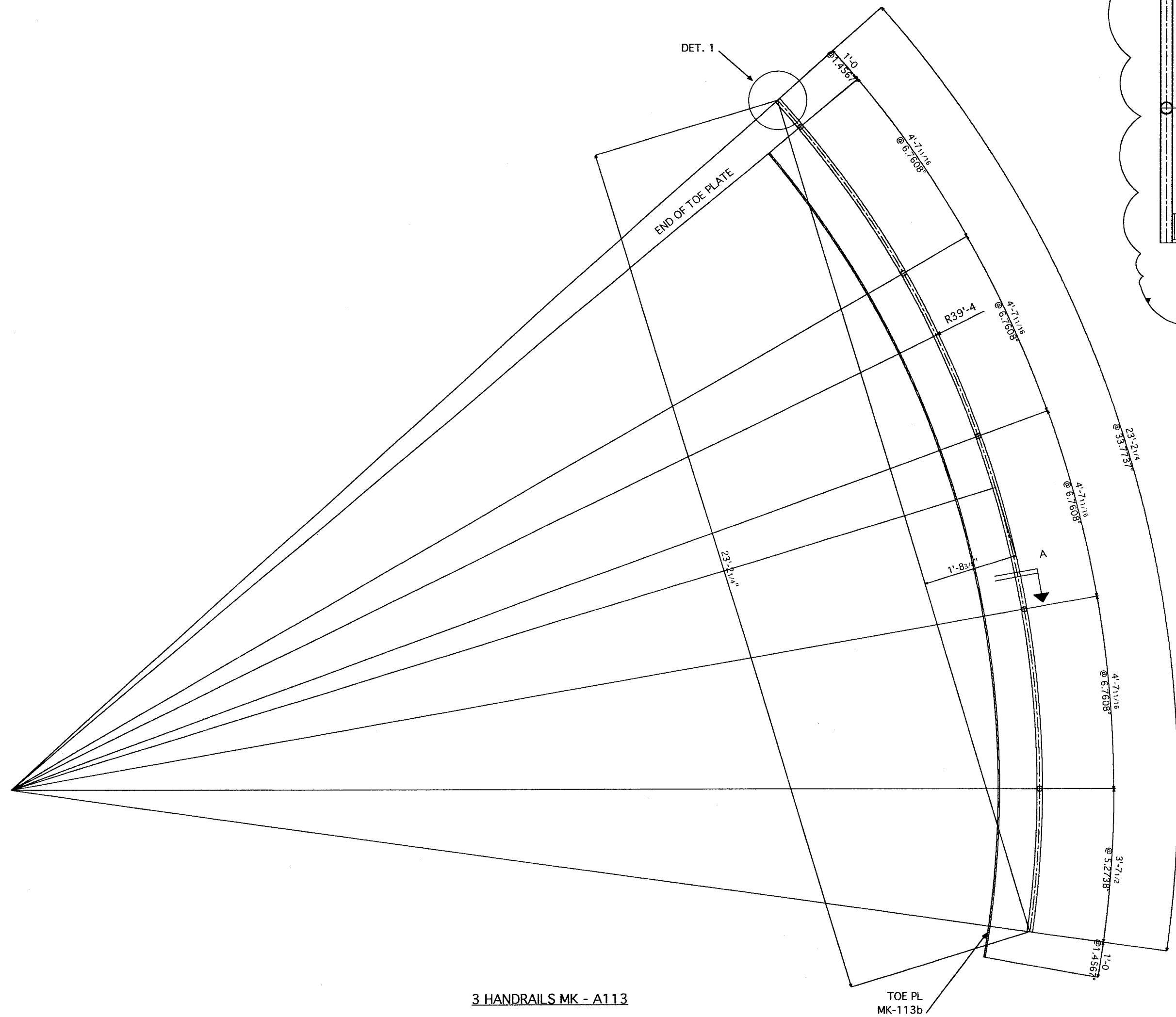
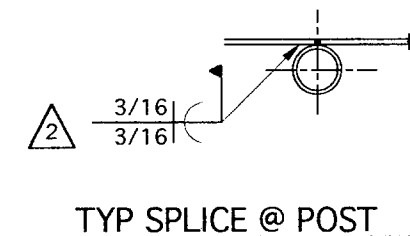


DETAILED PER
OSHA STANDARD
1910.23C



NOTE:
ALL WELDING TO CONFORM WITH AWWA D100-96 CRITERIA
ALL FIELD WELDS TO BE E6010 ROD.

1. WELD ALL HR 3/16" ∇ OR ∇ CONT.
2. GRIND ALL WELD SMOOTH
3. ALL BENDS TO BE 3" RADIUS
4. ALL DIMENSIONS ARE TO CENTER LINE OF PIPE

BILL OF MATERIAL									
SHIPPING BILL		SHOP BILL							
NO.	ITEM	NO.	QTY	UNIT	REMARKS	WEIGHT	NO.	QTY	UNIT
3	A113								
		3	1	1/2 STD PIPE	69	0			
		3	FL 1/4 X 4	23	2 1/4 113b				
		9	1/2 STD PIPE	0	2 113c	AS3GRB			

Bechtel Nevada
SUPPLIER DOCUMENT STATUS
JOB NO. 04085-51701-MPS-0015-001/3

1. ☒ WORK MAY PROCEED
2. ☐ REVISE AND RESUBMIT. WORK MAY PROCEED SUBJECT TO RESOLUTION OF INDICATED COMMENTS
3. ☐ REVISE AND RESUBMIT. WORK MAY NOT PROCEED.
4. ☐ REVIEW NOT REQUIRED. WORK MAY PROCEED.

PERMISSION TO PROCEED DOES NOT CONSTITUTE ACCEPTANCE OR APPROVAL OF DESIGN DETAILS, CALCULATIONS, ANALYSES, TEST METHODS OR MATERIALS DEVELOPED OR SELECTED BY THE SUPPLIER AND DOES NOT RELIEVE SUPPLIER FROM FULL COMPLIANCE WITH CONTRACTUAL OBLIGATIONS

R&C (Review & Comment)			I (Info Copy)		
PE	ES&H	ENG	Const		

Comments due by 8/21/06 to RES
RESPONSIBLE ENGINEER

AREA 23 MERCURY TANK 1

REFERENCE	DATE	BY	REV.	DESCRIPTION	APPROVAL	DATE
1	11-04			REV. PER OSHA STANDARDS		
2	11-04			REV. PER OSHA STANDARDS		

MATERIAL (UNLESS NOTED):
A36 U.L.N.

SURFACE PREPARATION:
NONE

PAINT:
NONE

SHOP CONNECTIONS/ELECTRODES:
E70XX

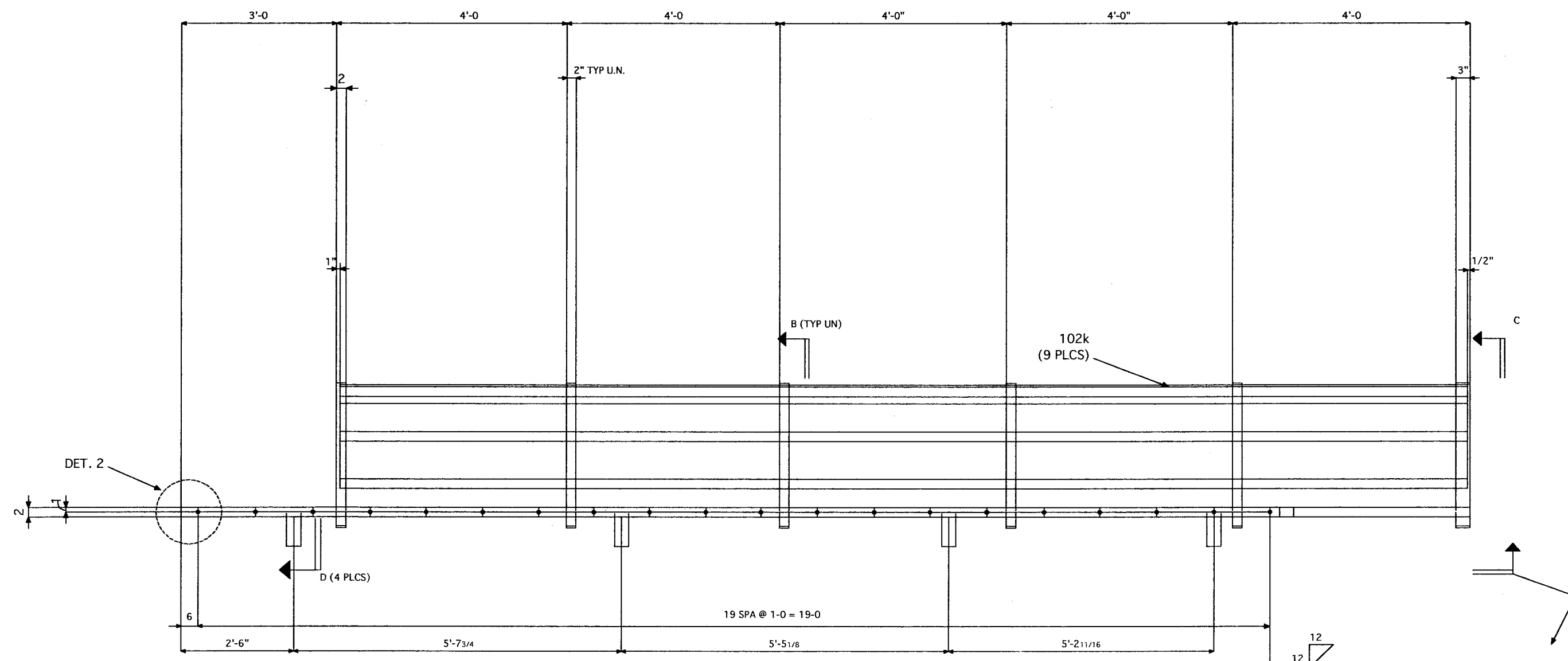
FIELD CONNECTIONS:
N/A

MOLES (S.A.):
NA

DATE: 8/21/06
BY: RES

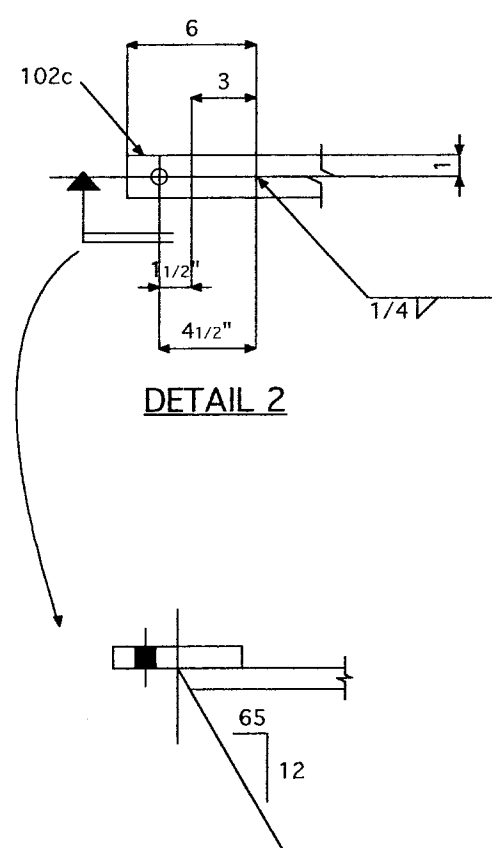
NO. 113

0015-001/3

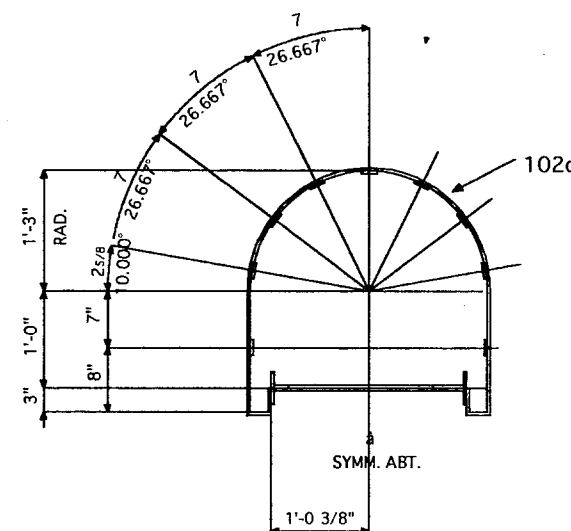


ONE LADDER A102
(UPPER POSITION)

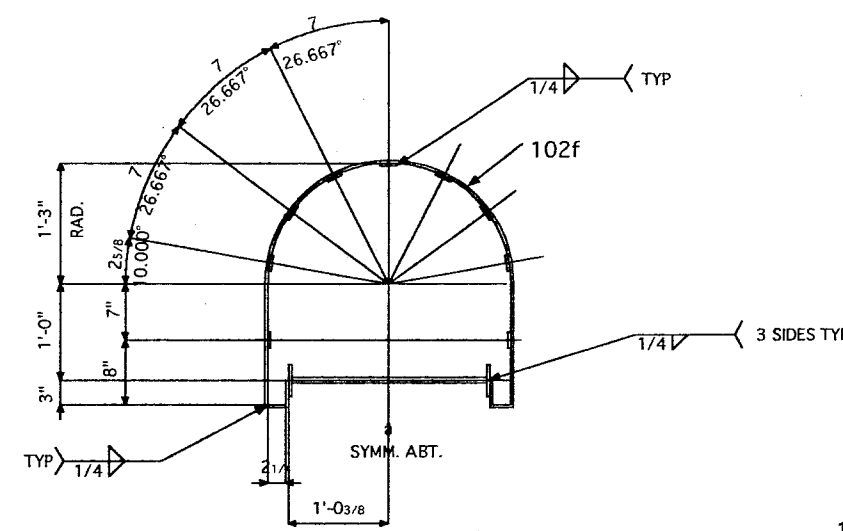
NOTES:
ALL WELDING TO CONFORM WITH AWWA D100-96 CRITERIA
ALL FIELD WELDS TO BE E6010 ROD.
ALL SHOP WELDS TO BE E7018 ROD.
GALVANIZED SAFETY CLIMB OMITTED FOR CLARITY.



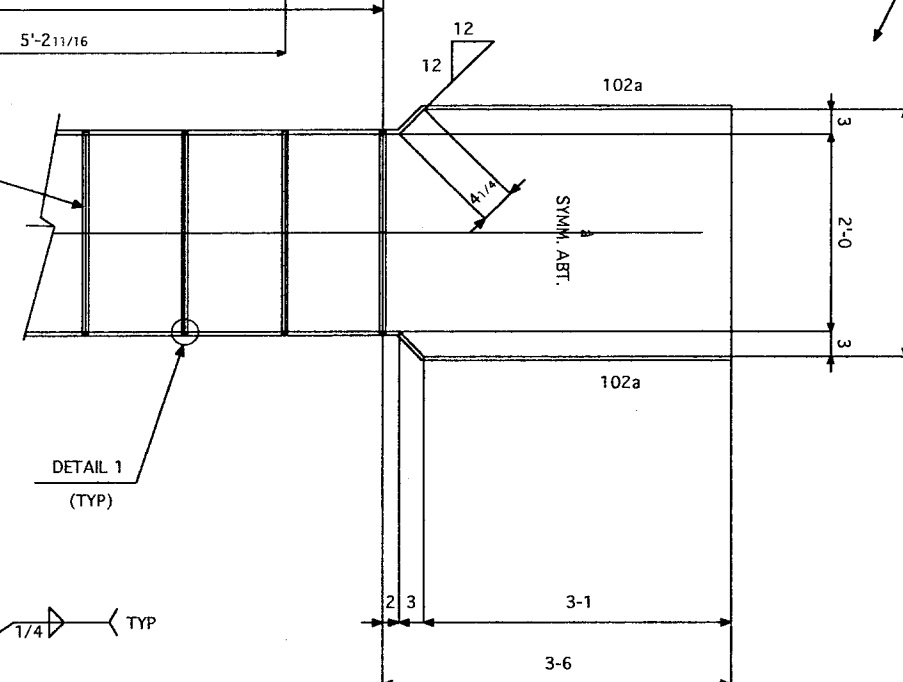
DETAIL 2



SECTION B

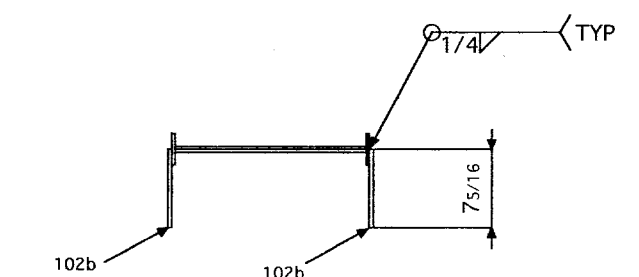


SECTION C



DETAIL 1
(TYP @ RUNGS)

BILL OF MATERIAL									
SHIPPING BILL		SHOP BILL							
NO.	SECTION	NO.	SHAPE	UNIT	QTY	UNIT	QTY	REMARKS	WEIGHT
NO.	SECTION	NO.	SHAPE	UNIT	QTY	UNIT	QTY	REMARKS	WEIGHT
ONE	A102		LADDER						
		2	BAR 2 X 3/8	23	1 1/4	102a		BENT	
		8	BAR 3 X 3/8	0	5/16	102b			
		2	BAR 2 X 3/8	0	6	102c			
		5	BAR 2 X 3/8	7	3/4	102d		ROLLED & BENT	
		1	BAR 3 X 3/8	7	3/4	102f		ROLLED & BENT	
		20	3/4 Ø ROD	2	0 1/2	102g		KNURLED	
		9	BAR 2 X 3/8	19	0 1/2	102k			
		1	NORTH-SAFETY PRODUCTS					SAFETY CLIMB (GALV)	
			FIELD BOLTS						
		2	5/8Ø A325	0	1 1/2				



SECTION D

Bechtel Nevada
SUPPLIER DOCUMENT STATUS
JOB NO. 04085-51701-MPS-0004-001/3

1. ☒ WORK MAY PROCEED
2. ☐ REVISE AND RESUBMIT. WORK MAY PROCEED SUBJECT TO RESOLUTION OF INDICATED COMMENTS
3. ☐ REVISE AND RESUBMIT. WORK MAY NOT PROCEED.
4. ☐ REVIEW NOT REQUIRED. WORK MAY PROCEED.

PERMISSION TO PROCEED DOES NOT CONSTITUTE ACCEPTANCE OR APPROVAL OF DESIGN DETAILS, CALCULATIONS, ANALYSES, TEST METHODS OR MATERIALS DEVELOPED OR SELECTED BY THE SUPPLIER AND DOES NOT RELIEVE SUPPLIER FROM FULL COMPLIANCE WITH CONTRACTUAL OBLIGATIONS

R&C (Review & Comment) 1 (Info Copy)

PE	ES&H	ENG	Const				

Comments due by 8/24/05 to DATE

RESPONSIBLE ENGINEER DATE

AREA 23-MERCURY TANK No. 1

REV.	DATE	DESCRIPTION	APPROVAL	DATE
1	8/1/05	REV. PER APPROVAL		
2	8/1/05	AS BUILT AND NOTES, ADD SAFETY CLIMB IN BOM		

MATERIAL (UNLESS NOTED)
A36 U.N.

SURFACE PREPARATION
NONE

SHOP PAINT
NONE

SHOP CONNECTIONS/ELECTRODES
E70XX

DRWG. COVERS
LADDER UPPER POSITION

DETAILER AL DATE 11-04 JOB NO. 04539 DRWG. NO. 102

CHECKER BL DATE 11-04

IN CHARGE OF DATE

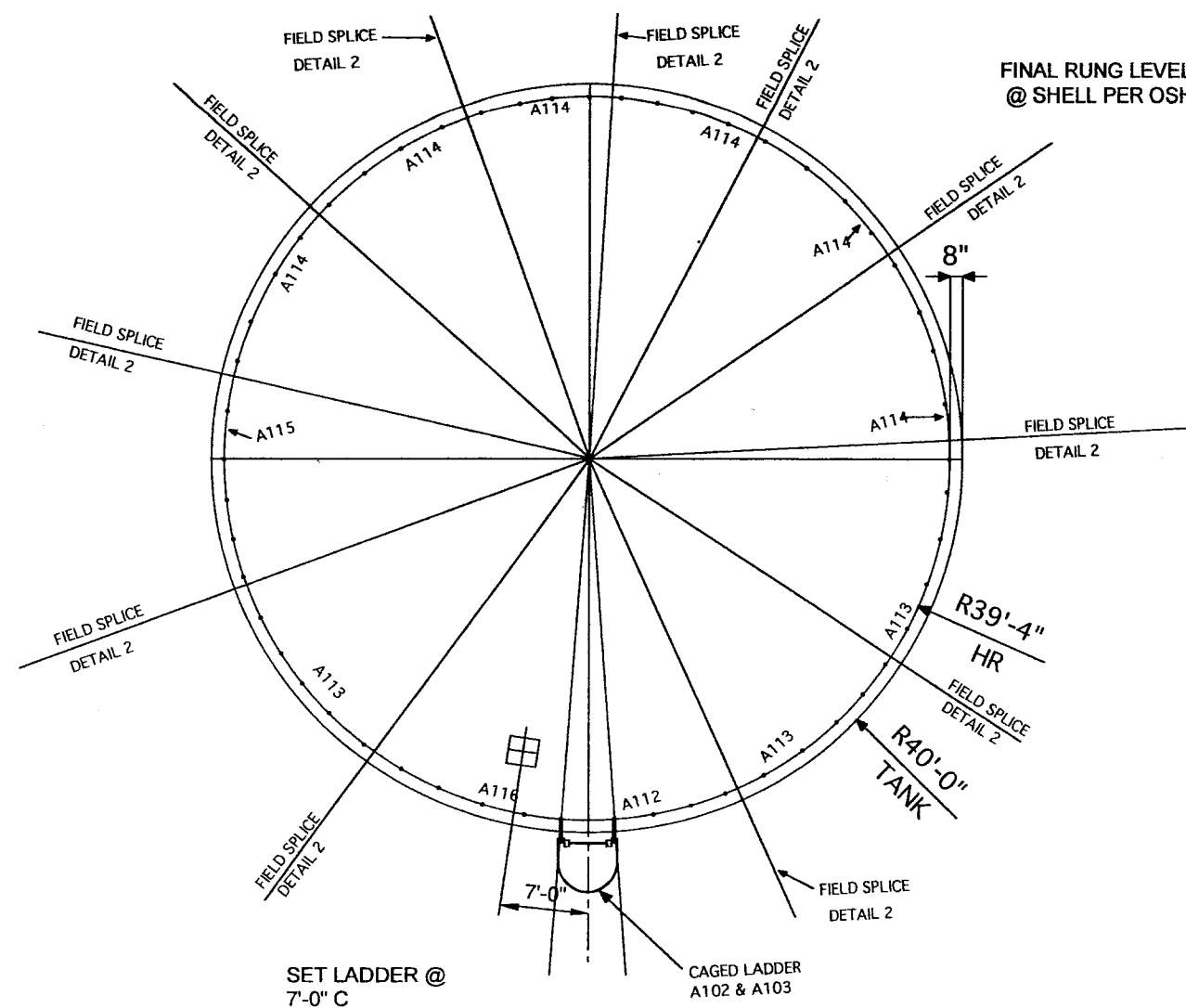
Bechtel Nevada
SUPPLIER DOCUMENT STATUS
 JOB NO. 04085-51701-MPS-0023-001/3

1. ☒ WORK MAY PROCEED
 2. ☐ REVISE AND RESUBMIT. WORK MAY PROCEED SUBJECT TO RESOLUTION OF INDICATED COMMENTS
 3. ☐ REVISE AND RESUBMIT. WORK MAY NOT PROCEED.
 4. ☐ REVIEW NOT REQUIRED. WORK MAY PROCEED.

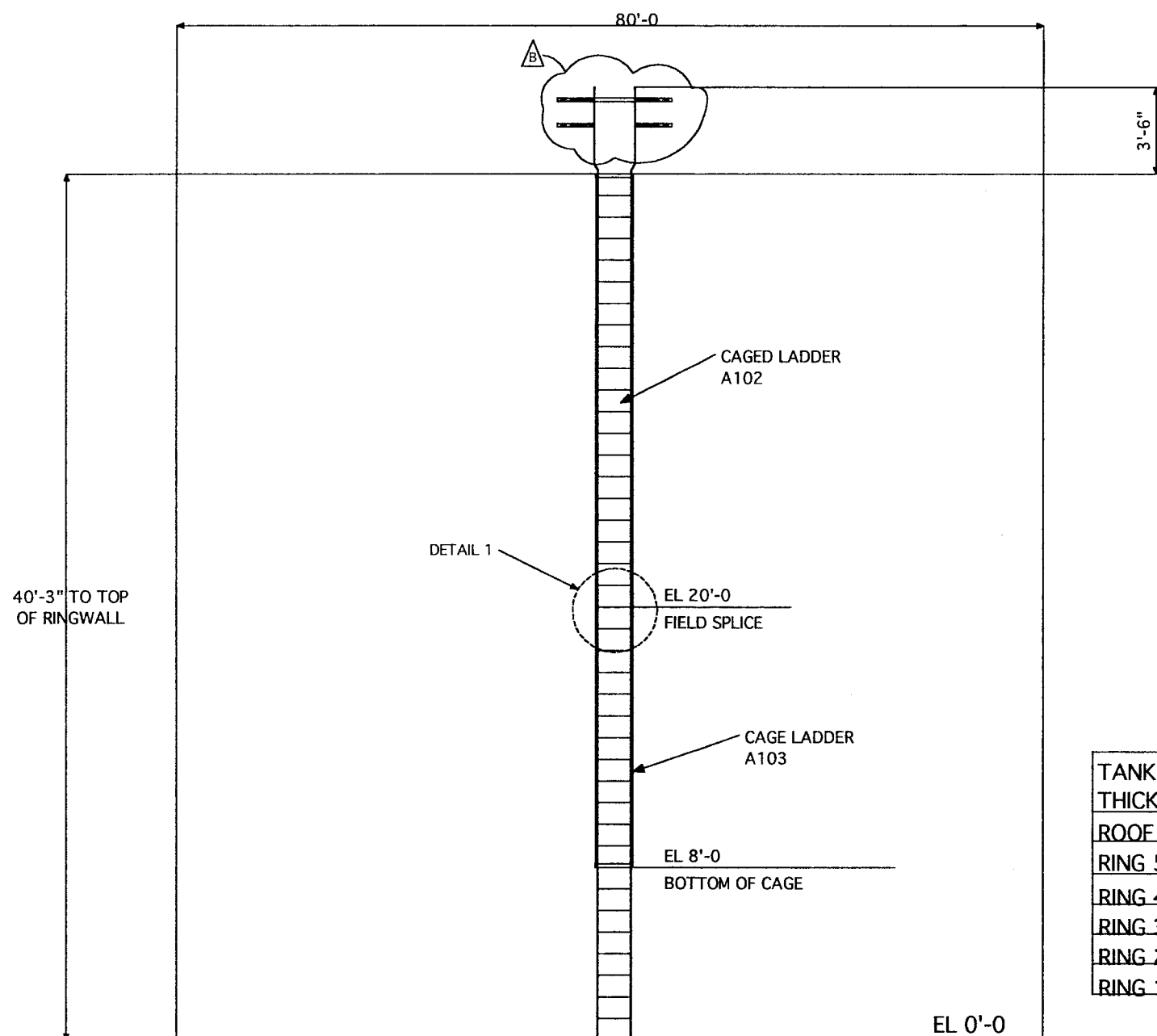
PERMISSION TO PROCEED DOES NOT CONSTITUTE ACCEPTANCE OR APPROVAL OF DESIGN DETAILS, CALCULATIONS, ANALYSES, TEST METHODS OR MATERIALS DEVELOPED OR SELECTED BY THE SUPPLIER AND DOES NOT RELIEVE SUPPLIER FROM FULL COMPLIANCE WITH CONTRACTUAL OBLIGATIONS

R&C (Review & Comment)				I (Info Copy)	
PE	ES&H	ENG	Const		

Comments due by 8/24/05 to Paul
 RESPONSIBLE ENGINEER Paul DATE 8/24/05
EN-0728 (04/98)



PLACEMENT PLAN

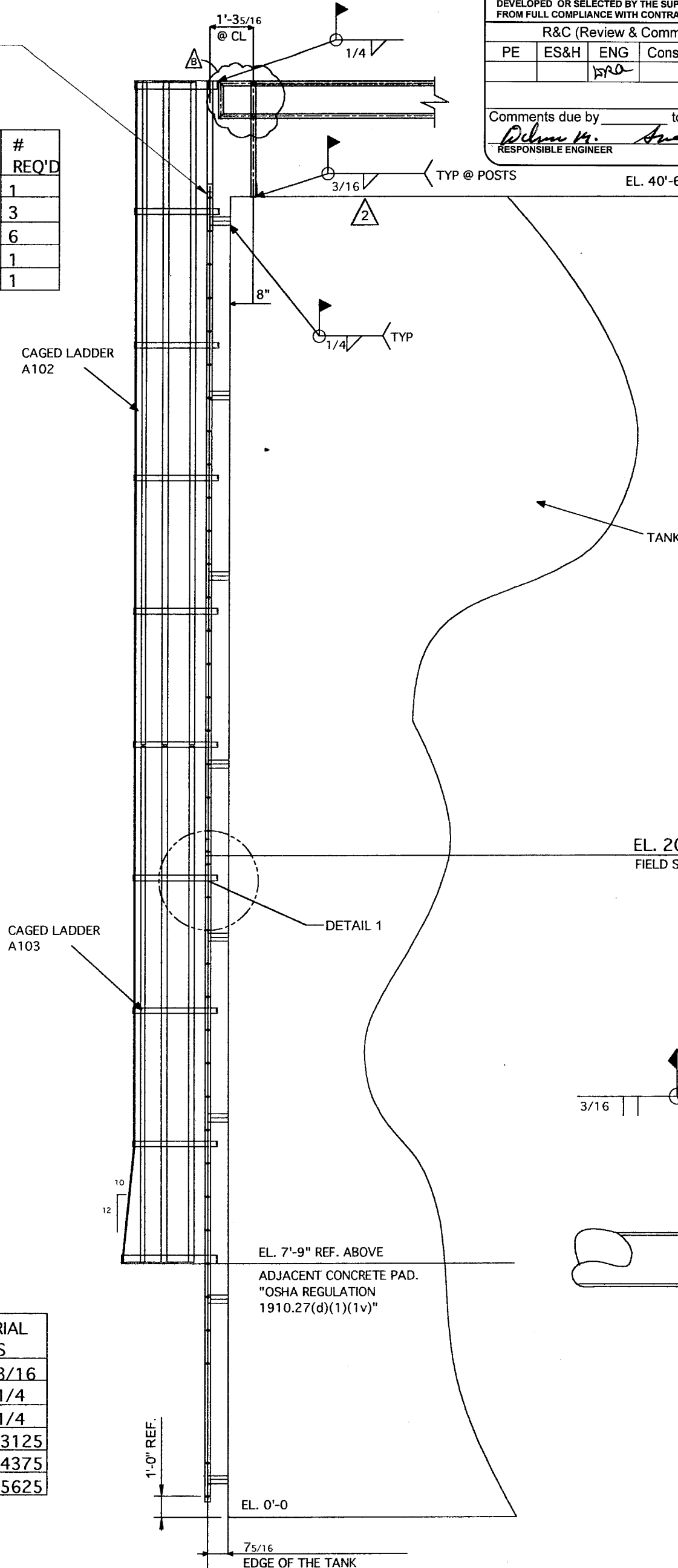


NOTE: GALVANIZED SAFETY CLIMB OMITTED FOR CLARITY. NORTH-SAFETY PRODUCTS "SAF-T-CLIMB" FALL PREVENTION SYSTEM. (HARNES, LANYARD & DISMOUNT SECTION NOT INCLUDED)

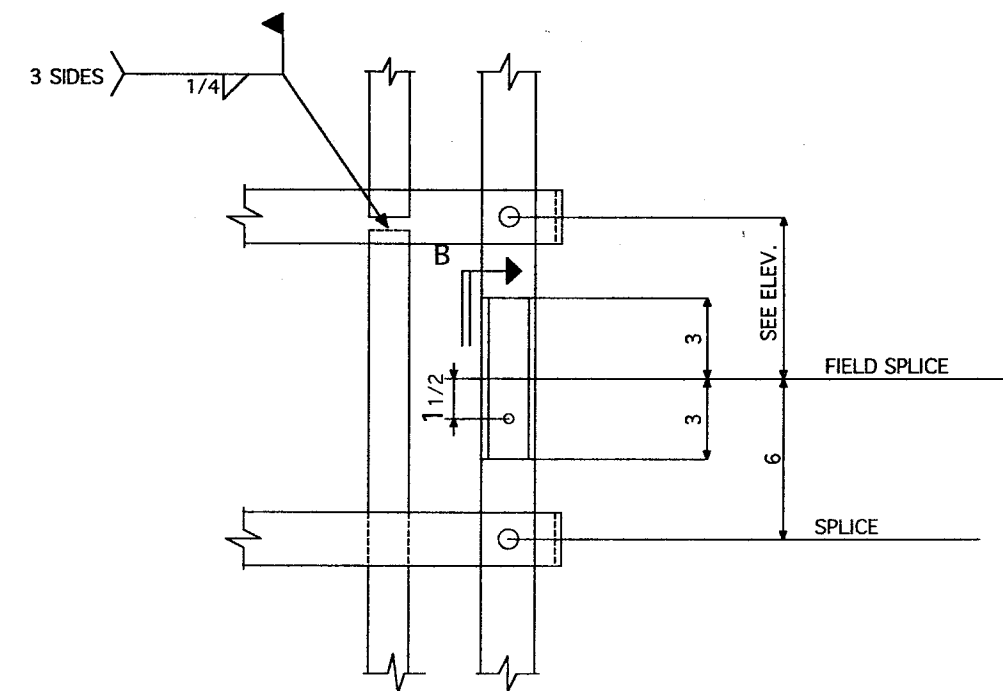
TANK ELEVATION

RAIL MARK #	# REQ'D
A112	1
A113	3
A114	6
A115	1
A116	1

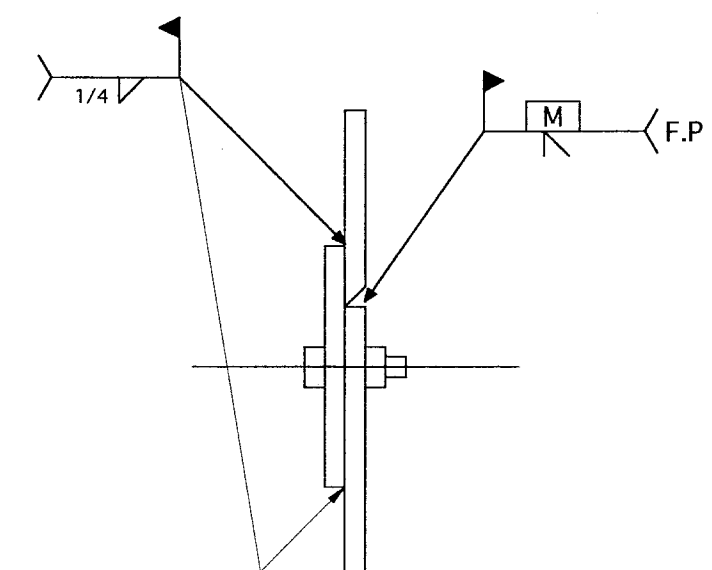
TANK MATERIAL THICKNESSES	
ROOF	3/16
RING 5	1/4
RING 4	1/4
RING 3	.3125
RING 2	.4375
RING 1	.5625



SECTION A



DETAIL 1

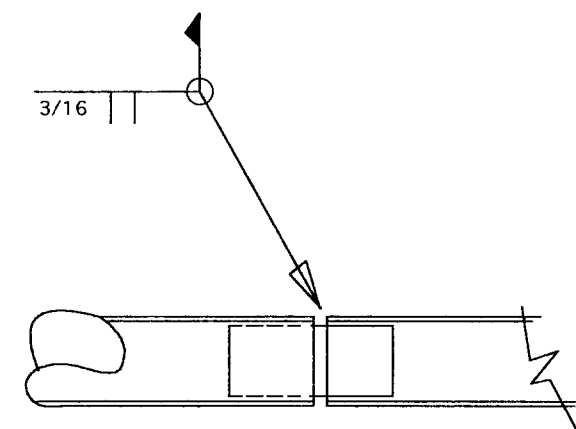


SECTION B

TYP FIELD SPICE @ KICK PL

NOTES:

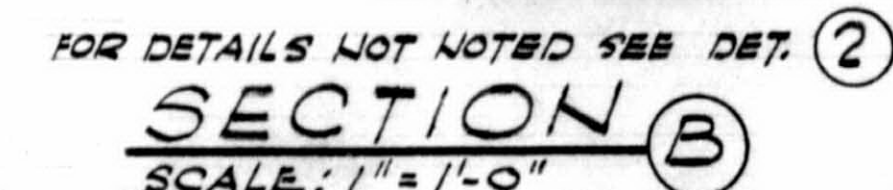
1. ALL WELDING TO CONFORM WITH AWWA D100-96 CRITERIA.
2. ALL FIELD WELDS TO BE E6010 ROD.
3. GALVANIZED SAFETY CLIMB OMITTED FOR CLARITY. NORTH-SAFETY PRODUCTS "SAF-T-CLIMB" FALL PREVENTION SYSTEM (HARNES, LANYARD & DISMOUNT SECTION NOT INCLUDED).
4. SEE DRAWING B3379-116 FOR SAFETY GATE DETAILS.



DETAIL 2
TYP FIELD SPICE

AREA 23- MERCURY TANK
 No. 1
 80' DIAMETER X 40'-6 TALL

2	8/05	AS BUILT / REV. WELD SIZE, ADD. NOTES				
1	7/05	REV. PER APPROVAL	DEP	0	01/06	
B	12/04	REV. PER OSHA STANDARDS	APPROVAL	A	11/04	
REV.	DATE	DESCRIPTION	REVISED BY	DATE	NO.	DATE
TANK & REFINERY SERVICES CO., INC.						
TANK REFURBISH						
WATER STORAGE						
LOCATION: MERCURY, NEVADA						
CUSTOMER: MPS						
DRAWING NO.: HANDBOOK & LADDER PLACEMENT PLAN AREA 23						
DETAILER: AA	DATE: 11/04	JOB NO.: 04539	DRAWING NO.: E104			
CHECKER: BL	DATE: 11/04					
BY CHANGE OF: _____						

[illegible]

DESIGNED: <i>V.G.</i>	NEVADA TEST SITE	
DRAWN: <i>J.W.</i>	WATER STORAGE RESERVOIR - AREA 12	
CHECKED: <i>[Signature]</i>	DISTRIBUTION SYSTEM	
PROJECT ENGINEER <i>R.D. Seifried</i>	TANK FOUNDATION, PLAN, SECT. & DET	
SUBMITTED: <i>H. & Narver</i>	AGENCY APPROVAL	AEC APPROVAL <i>[Signature]</i> BY <i>R.O. Moss</i>
HOLMES & NARVER INC.	I. D. NO.	DATE: <i>S-27-6</i>
HOLMES & NARVER INC. ENGINEERS—CONSTRUCTORS	183455	DRAWING NUMBER 012-082- S2.2
"ATOMIC TEST SUPPORT ORGANIZATION LAS VEGAS OFFICE"		
3030 SOUTH HIGHLAND DRIVE	LAS VEGAS, NEVADA	SHEET _____ OF _____

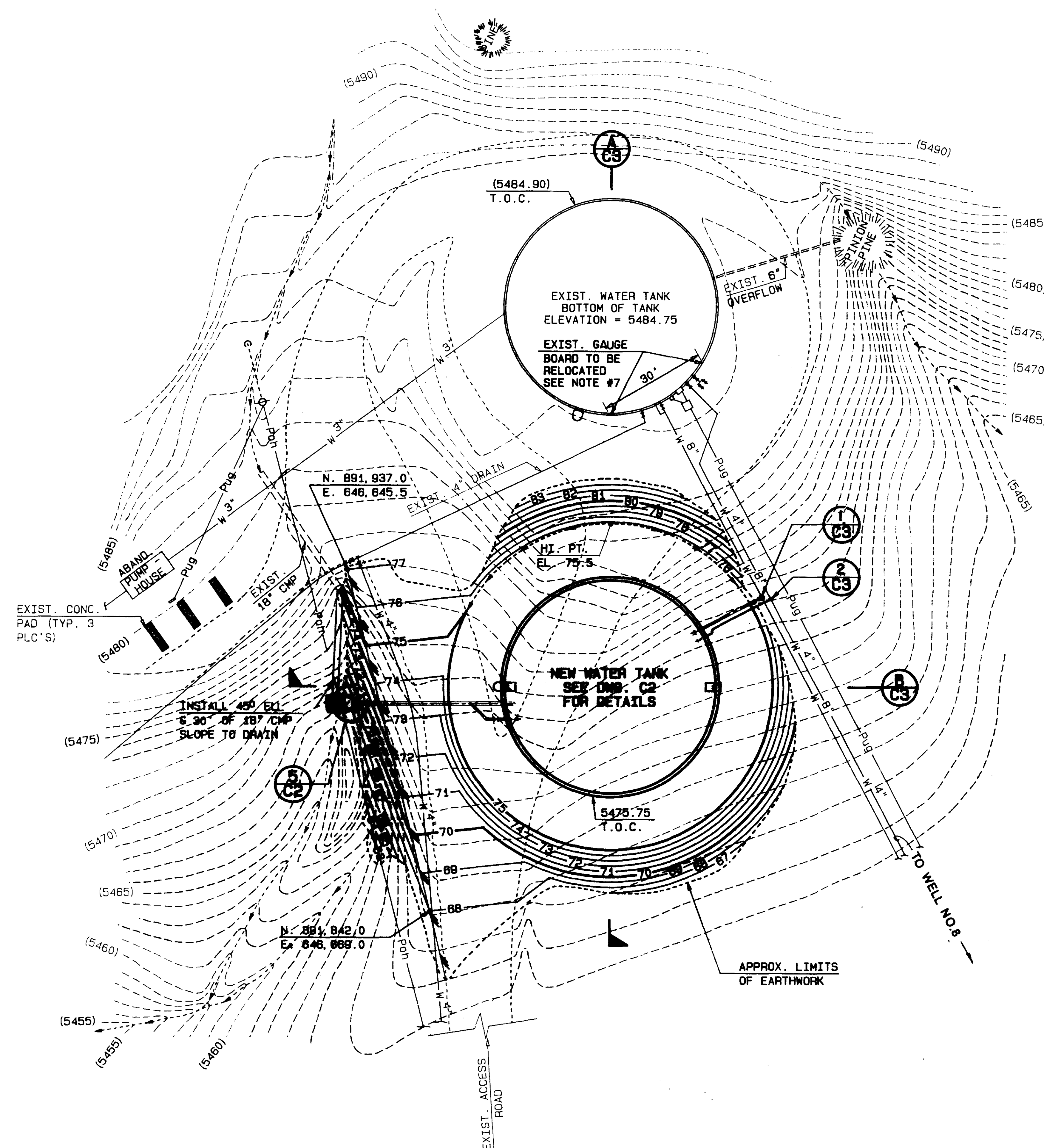
INDEX				CODE			
AREA	BLDG #	STA.	CLASS	TYPE	A.B.	SHT. NO.	UNIT
12			51	36	001	92	0

AS-BUILT

HOLMES & NARVER, INC.
Engineers — Constructors

Date 6-23-65 | By CA | CKD VC

Approved *E. O. [Signature]*



GRADING PLAN
SCALE: 1" = 20'

FOR REFERENCE DWGS. SEE DWG. T1

LEGEND

- Pgh --- EXIST. OVERHEAD POWER
- Pug --- EXIST. UNDERGROUND POWER
- W 4" --- EXIST. WATER LINE (SIZE AS NOTED)
- " --- EXIST. GATE VALVE
- (5570) --- EXIST. CONTOUR (1' INTERVAL)
- --- EXIST. SWALE
- 95 --- NEW FINISH CONTOUR (1' INTERVAL)
- 93.00 --- NEW SPOT ELEVATION
- --- NEW SWALE
- --- NEW EDGE OF ROAD
- --- NEW WATER LINE (SEE DWG C2 FOR SIZES)
- --- APPROX. LIMIT OF EARTHWORK

GENERAL NOTES:

- ALL CONSTRUCTION FEATURES, MATERIALS, TESTS, AND DETAILS SHALL CONFORM TO THE LATEST NTS STANDARD CONSTRUCTION SPECIFICATIONS.
- IN AREAS UNDER CONCRETE SLABS AND BUILDING FOUNDATIONS, ALL SUBGRADE SHALL BE COMPACTED TO A RELATIVE COMPACTION OF NOT LESS THAN 95%.
- IN AREAS OF EXCAVATION AND AREAS REQUIRING FILL, SCARIFY THE TOP 6 INCHES (MIN.) OF EXISTING GROUND AND COMPACT TO A RELATIVE COMPACTION OF NOT LESS THAN 95%.
- ALL WATER LINES AND DRAIN LINES SHALL BE SCHEDULE 40 WELDED STEEL PIPE.
- ALL UNDERGROUND UTILITIES, WITHIN THE CONSTRUCTION SITE, SHALL BE FIELD LOCATED AND STAKED.
- FOR WATER TANK CONTROL SYSTEM SEE DWG. E1.
- EXIST. GAUGE BOARD ON EXIST. 300,000 GAL. WATER STORAGE TANK SHALL BE RELOCATED AS REQUIRED SO AS TO GIVE A CLEAR LINE OF SIGHT FROM THE EXIST. VALVE PIT AREA.
- AN INSIDE LADDER SHALL BE PROVIDED CONFORMING TO ANSI A14.3-84.
- ALL REINFORCED CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS AND SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST ACI CODE.
- ALL REINFORCING STEEL SHALL BE GRADE 40.
- WATER STORAGE TANK SHALL BE MANUFACTURED IN ACCORDANCE WITH THE REQUIREMENTS OF ANMA D100, D102 & D105, NTS STANDARD CONSTRUCTION SPEC., SPEC. JS-012-089-SM AND NFPA 22 @ 24.
- TANK BEDDING SHALL BE ASPHALT COLD MIX.
- ALL BURIED SCH. 40 STEEL PIPE SHALL BE COAL TAR LINED AND COATED PER ANMA SPEC. C 203 AND IN ACCORDANCE WITH NTS STANDARD CONSTRUCTION SPECS.
- FOR LIQUID LEVEL SWITCH SEE DWG. E1.
- ALL PIPING, VALVES, AND CONTROL SYSTEMS, ETC., MUST BE UL LISTED AND/OR F.M. APPROVED FOR THE INTENDED PURPOSE.
- FOR LIGHTNING PROTECTION SEE DWG. E1.

AS BUILT		11/3/86	
NO.	DATE	REVISIONS	BY
U.S. DEPARTMENT OF ENERGY			
NEVADA TEST SITE AREA 12			
WATER STORAGE GRADING PLAN			
HOLMES & NARVER, INC.		DATE: 11-3-86	
ARCHITECTS - ENGINEERS		DRAWING NUMBER: JS-012-089-C1.1	
ENERGY SUPPORT DIVISION		PROJECT NO.: 8615.A12	
1050 E. FLAMINGO ROAD LAS VEGAS, NEVADA 89109		SHEET: 11	



DETAILED PER
OSHA STANDARD
1910.23C

ALL WELDING TO CONFORM WITH AWWA D100-96 CRITERIA
ALL FIELD WELDS TO BE E6010 ROD.

1. WELD ALL HR 3/16 ∇ OR π CONT.
2. GRIND ALL WELD SMOOTH
3. ALL BENDS TO BE 3" RADIUS
4. ALL DIMENSIONS ARE TO
CENTER LINE OF PIPE

[illegible]