



Forsyth County Procurement

Greg Bridges, NIGP-CPP, Procurement Agent III

November 23, 2022

ADDENDUM #4

BID No. 22-115-3320

For: Gilbert Road Water Tank Improvements

This addendum supersedes and supplements all portions of the bidding documents and becomes part of the contract documents for the above-referenced project.

Where any item called for in the specifications or indicated on the drawings is supplemented hereby, the original requirements shall remain in effect.

Where any original item is amended, voided or superseded hereby, the provision of such item not so specifically amended, voided or superseded shall remain in effect.

Revisions to the Project Manual:

1. **Replace the Bid Form with the attached revised Bid Form.**
2. **Section 09 91 00 Tank Surface Preparation and Coatings, add the following paragraphs:**

Part 3.01-A-8, Epoxy Filler - After the specified surface preparation, any pits, rough areas or seams identified for pit filling or surfacing by the Owner or Owner's Site Representative shall be filled with solventless polyamide epoxy seam sealer of the type recommended by the supplier of the coating system. The epoxy seam sealer shall be applied neatly and smoothly to the steel surfaces and any rough areas of the seam sealer shall be sanded smooth prior to the application of the coating system.

Part 3.01-A-9, Pit Welding - After the specified surface preparation, any pits identified for welding by the Owner or Owner's Site Representative shall be repaired by welding. All areas of apparent seam deterioration shall be initially abrasive blast cleaned, and any seam corrosion or undercut identified by the Owner or Owner's Site Representative shall be repaired by arc-gouging or grinding the deteriorated weld seam (if determined necessary by the Owner or Owner's Site Representative) and welding.

Part 3.01-A-10, Where measurements indicate 10% or less material loss in total thickness, selective pit filling may be performed with epoxy filler. Where measurements indicate more than 10% material loss in total thickness, selective pit filling utilizing welding shall be performed.

Clarification on Bidder Questions and Submittals:

- 1. Q: Is there going to be a requirement for Contractor's to utilize a containment system during surface prep and coating application for the exterior, or will that be up to the discretion or preference of the Contractor if we feel that containment will be required?**

A: Containment is required. Containment system shall meet Class 2W classification requirements as defined in SSPC Guide No. 6 per 01 56 00 Temporary Environmental Controls.

- 2. Q: Who will the 3rd party inspectors be? If unknown, who is being considered?**

A: The County will utilize one of our on-call firms for 3rd party inspections.

- 3. Q: What is the estimated bid price?**

A: See Addendum #1, Q1.

- 4. Q: Regarding the antennas, it is not clear what is required here. Section 01 71 33 E mentions "Contractor shall coordinate with communications utility companies that have communications equipment located on or adjacent to the tank to protect or remove equipment per utility company requirements." Who decides if the antennas and coax are to be protected or removed? Who bears the cost for the same? If they are left in place, will the antennas be turned off? If the antennas and coax will be left in place, who will be responsible for addressing any damage that is done to the equipment? It is not possible to complete the work in a safe manner and in compliance with OSHA regulations if they are left in place. If the antennas will be removed, will this be done prior to project start? If so, who will be responsible for delays caused due to delays by the cell carriers. Please advise.**

A: Refer to Addendum #3, Q2. The Contractor shall track and document delays associated with third parties (such as 'cell carriers') and submit a record of these delays to Owner each month as a part of the pay application process. The Owner will review and determine these delays; the contract timeframe shall be extended for delays determined valid by the Owner.

- 5. Q: Can we get a list of the planholders?**

A: This is available on the Forsyth County Procurement website under Bid Portal/Bid 22-115-3320.

- 6. Q: Regarding the interior dry, please confirm that we do not have to paint the fluted wall with the exception of the bottom 36". Please confirm that we are to not paint the interior dry access tube.**
A: Refer to 01 11 00 - Summary of Work, Paragraphs 1.02 B.2 and B.6 for interior dry work.
- 7. Q: Specification refers to demolition of a building. Please confirm this is not part of our scope of work.**
A: Project scope of work is described in 01 11 00 - Summary of Work, Paragraph 1.02.
- 8. Q: Do you think the Notice to Proceed will be issued in January?**
A: This Bid will receive approval at the earliest on the 12/20/22 Board of Commissioners Work Session. The Consent Agenda would then be approved on 1/5/23. The earliest a NTP would be issued is in January 2023.
- 9. Q: Please clarify this project is to be bid as tax exempt. If tax exempt, will the owner share their tax-exempt certificate with the contractor, or will they purchase the materials directly from the suppliers?**
A: The County is not to be charged tax by the Contractor. A Tax Exempt form does not apply to materials obtained by the Contractor.
- 10. Q: The specification has more than one coating system. Please verify the coating system that should be included in the base bid.**
A: The Specifications provide three preapproved coating system manufacturers. Contractor shall select one and include in their base bid.
- 11. Q: What is the Alternate coating system supposed to be and is this a mandatory line item?**
A: If Contractor wants to propose an alternative to the manufacturers provided in the Specifications, Contractor may do so by filling in the applicable table in the Bid Schedule and submitting all required product information with the bid for Owner review per Section 01 25 00 – Substitution Procedures. Submission of alternative coating system bid is not required.
- 12. Q: Please know that the current antenna location directly impacts our ability to paint the tank exterior fluted column inside our containment.**
A: Contractor is responsible for coordinating with utility companies and protecting equipment on and adjacent to the tank. If equipment is removed, any costs incurred to the contractor shall be paid from the Contingency Allowance.
- 13. Q: Who is the local contact for the power company? The power lines will be too close to our containment system and violate OSHA standards requiring a minimum of 10' clearance.**

A: The local power company is Sawnee EMC. The contact is Greg Farr, and his phone number is 678-455-1305.

14.Q: Please clarify the interior dry coating system also. I know we are only coating certain areas, just confirming the coating system requested by the owner.

A: Coating system for interior dry work is specified in 09 90 00 – Painting Table 1.

15.Q: Due to the safety of employees and to reduce RF radiation the cell phone equipment will need to be powered off while working on the roof of the tank. Are the cell phone carriers and all agencies informed of this and have they agreed to power equipment down during working hours?

A: No agreement has been made with the utility companies. Contractor is responsible for coordinating with utility companies.

16.Q: Is containment shrouding required for this project?

A: See response to Question 1 this this Addendum.

17.Q: What is the time frame for this project to be completed?

A: All work is to be completed within 150 calendar days of Notice to Proceed.

18.Q: Per the specifications “Surface preparation shall be in accordance with specifications and manufacturer’s recommendations. Provide additional surface preparation, and fill coats where manufacturer recommends additional surface preparation, in addition to requirements of specification.” Will any filling or pits of epoxy or welding be handled by change order? We will not be able to know how much filler will be needed till after blasting is completed.

A: Unit prices with assumed quantities have been added to the bid schedule for pit filling with epoxy filler and pit filling with welding.

19.Q: Will the city (County) help with coordinating of removing of antennas? Or is the contractor solely responsible?

A: Per Section 01 10 00 – Summary of Work, Contractor is responsible for coordinating with communications utility companies.

20.Q: Addendum #3 is hard for me to understand, in one place I read it as though the communication equipment (mainly antennas) will remain on the tank and be protected. Then the answer to the question #2 leads me to believe the owner is going to handle (financially) having them removed and replaced through the contingency and our only scope will be to coordinate this with the providers. Can you clarify if removing these from the tank is an option, or if they must remain in place and be protected?

A: It is not known if communications equipment can be removed from the tank during the project or if the equipment must remain in place and protected per Addendum #3. Contractor shall coordinate with communications utility companies to determine the path forward.

21.Q: See picture number 2507 which is attached (below). Please confirm the county will work with the power company to get the lines dropped/moved. The power company will work with the county more so than a contractor they don't know.

A: Forsyth County will assist the Contractor in getting the power lines de-energized, as needed.

22.Q: Do you want both sides of the roll up door painted?

A: Painting the interior of the rollup door is not included in the scope of work.

23.Q: The interior dry will get dust on it from the interior wet sandblasting. Please confirm you want the interior dry cleaned of all dust.

A: Section 01 11 00 - Summary of Work includes cleaning of interior dry surfaces prior to coating system application. Additionally, all interior dry areas impacted by interior wet sand blasting shall be cleaned of dust and debris.

24.Q: Will the pipe bollards be same color as the tank? If not, what color do you want?

A: Painting of bollards is covered by Section 09 90 00 – Painting. Contractor is required to coordinate with Owner to select colors not otherwise identified per Paragraph 3.06 Schedule of Colors.

25.Q: When containment is built on the tank, some of the cell equipment on site will be inside the containment. Not sure if the tarps will affect the ventilation of this building. The cell company needs to be on site to evaluate this with us so their equipment doesn't get damaged. Confirm the cell companies will attend pre-con and do a site visit with us.

A: Per Section 01 10 00 – Summary of Work, Contractor is responsible for coordinating with communications utility companies.

26.Q: Dust is likely to get on the interior dry from sandblasting. Please confirm the generator will be relocated until the project is completed. See picture 9007 which is attached (below).

A: Forsyth County will remove the emergency generator from the site prior to Notice to Proceed.

27.Q: Was the exterior of this tank painted last with a clear coat? Picture 2894 (below) shows the coating still has good gloss. If it was painted with a clear coat, the surface prep needs to be NACE WJ-4 with grit injection to etch the clear coat.

A: The tank is not known to have a clear coat applied to the exterior.

28.Q: Does this tank have any antennas on the roof? Most appear to be on the upper fluted column.

A: The tank has one magnetically mounted antenna on the roof of the tank. See the photo below:



29.Q: When was the exterior of the tank last painted?

A: Tank was constructed in 1996. Owner is not aware of any projects that recoated or overcoated the Tank.

30.Q: Is section 02-41-16 applicable to this tank painting project? If so, what specific items.

A: Section 02 41 16 – Demolition and Removal of Existing Structures and Equipment is a general demolition specification. No structures or equipment are expected to be demolished or removed from the site. Specifications paragraphs governing protection, workmanship, maintenance and debris removal do apply to the project.

31.Q: Someone asked who would be inspecting this project for the owner. We were told the “Owner is contracting with a third-party inspection firm.” Believe it or not the inspection firm that you hire has a lot to do with what it cost to paint a tank. Some inspection firms spend 30 minutes inspecting our work and others may spend over an hour. We would like to know what firms are being considered to inspect this project.

A: The County will select from the following: NOVA Engineering and Environmental, ECS Southeast, S&ME, United Consulting, Geo-Hydro Engineers, and Contour Engineering.

32.Q: Is the fill pipe, overflow pipe and drain pipe carbon steel or ductile iron? Ductile iron would require a certain coating system to be successful.

A: Records indicate the fill pipe and overflow pipe are carbon steel from the flange up, and ductile iron from the flange down. The drain pipe is ductile iron. Refer to 09 90 00 – Painting for surface preparation and specified coating system.

33.Q: Do you have any additional photos besides what are in the inspection report of the roof beams on the interior? Do you know if these beams were seal welded to the roof?

A: Tank shop drawings have been attached to this Addendum.

Photos submitted for reference:

#2507



#9007



#2894



BID SCHEDULE 22-115-3320

FOR: *Furnishing all Labor, Equipment, and Materials necessary for the Gilbert Road Water Tank Improvements project. The Bidder is required to examine the site of the proposed work, Bid Specifications, Supplemental Specifications, Special Provisions and Contract forms prior to submitting a Bid.*

Bid prices shall include all labor, materials, bailing, shoring, removal, overhead (Direct and Indirect), profit, insurance, bonds, and other costs, to cover finished Work of the several kinds called for.

Bidder agrees this Bid shall be good and may not be withdrawn for a period of 90 calendar days after scheduled closing time for receiving bids.

There is enclosed herewith a certified or cashier's check or a Bid Bond to the order of Forsyth County, Georgia.

Check or Bid Bond shall be equal to, not less than, the amount stipulated in ADVERTISEMENT TO BID and it is understood and agreed that said check or Bid Bond shall be subject to terms and conditions stipulated in Bid Document Package.

Bidder accepts terms and conditions contained in Bid Document Package including, without limitation, those dealing with Owner's time for accepting Bid and disposition of Bid Security.

Bidder has examined site and locality where the Work is to be performed and legal requirements (federal, state, and local laws, ordinances, rules, and regulations) and conditions affecting Work cost, difficulty, progress, or performance and has made independent investigations as Bidder deems necessary.

Bidder has given Owner written notice concerning conflicts, errors, or discrepancies discovered in Bid Document Package and written resolution by Owner is acceptable to Bidder.

All work is to be completed as specified in Bid Specifications and Drawings.

If Contractor includes an Add Alternate price, Contractor shall submit all required product information with the bid for Owner review per Section 01 25 00 – Substitution Procedures.

A Owner Directed Work Allowance is included in the Base Bid and Alternate Bid and may be used upon Owner's instruction. This Allowance is for the sole use of the Owner to cover unanticipated costs. [ADD No. 2]

For Items 3 and 4 in the following tables, Bidder proposes to accept as full payment for the Unit Price Work proposed herein the amounts computed under the provisions of the Bidding Documents and based on the following unit price amounts, it being expressly understood that the unit prices are independent of the exact quantities involved. [ADD No. 4]

Bidder agrees that the unit prices represent a true measure of the labor, materials, and services required to perform the work, including all overhead and profit for each type and unit of Work called for in these Bidding Documents [ADD No. 4]

Bidder further acknowledges that Unit Price quantities are not guaranteed, and final payment will be based on actual quantities.

Prior to final payment, an appropriate Change Order will be issued to reflect actual amounts due Contractor on account of Work covered by the Allowance and Unit Prices, and the Contract Price shall be correspondingly adjusted. All uncommitted Allowance and Unit Price funds shall be returned to Forsyth County upon completion of the Work. [ADD No. 2] [ADD No. 4]

Base Bid

Item	Description	Quantity	Units	Unit	Total
1	Gilbert Road Water Tank Improvements	1	LS		
2	Contingency Allowance	1	LS	\$50,000	\$50,000
3	Pit Filling with Epoxy Filler	250	SQFT		
4	Pit Filling with Welding	50	SQFT		
TOTAL BASE BID (ITEMS 1 through 4)					

Base Bid - Total lump sum amount to complete all work as detailed using a name coating system:

\$ _____

Total bid (in written form): _____

Add Alternate 1 (Not Required)

Item	Description	Quantity	Units	Unit	Total
1	Gilbert Road Water Tank Improvements	1	LS		
2	Contingency Allowance	1	LS	\$50,000	\$50,000
3	Pit Filling with Epoxy Filler	250	SQFT		
4	Pit Filling with Welding	50	SQFT		
TOTAL ALTERNATE BID (ITEMS 1 through 4)					

Add Alternate 1 - Total lump sum amount to complete all work as detailed using an alternate coating

System (optional): \$ _____

Total bid (in written form): _____

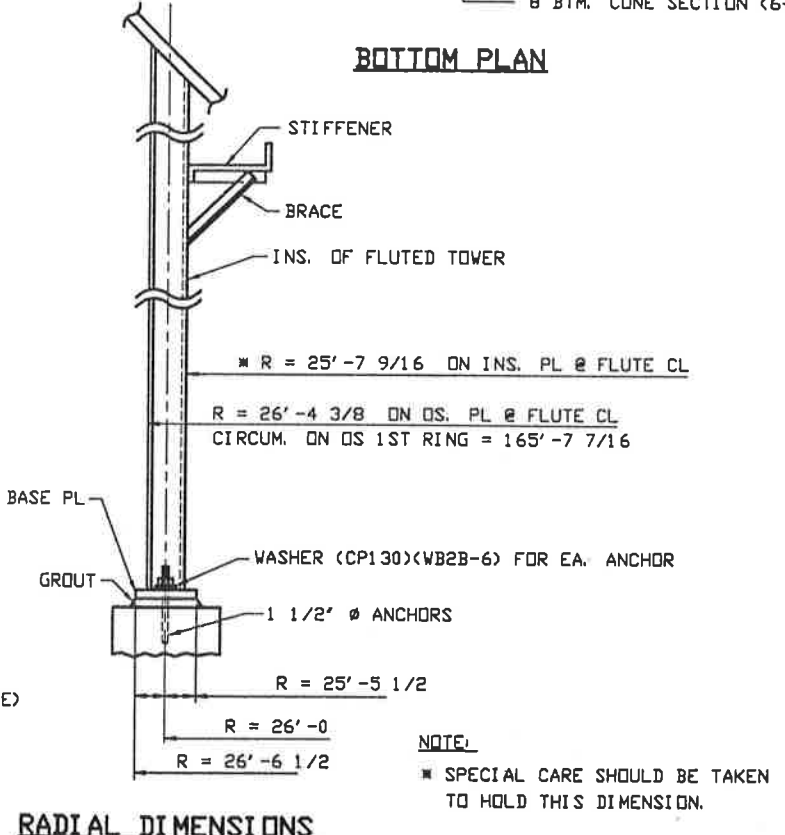
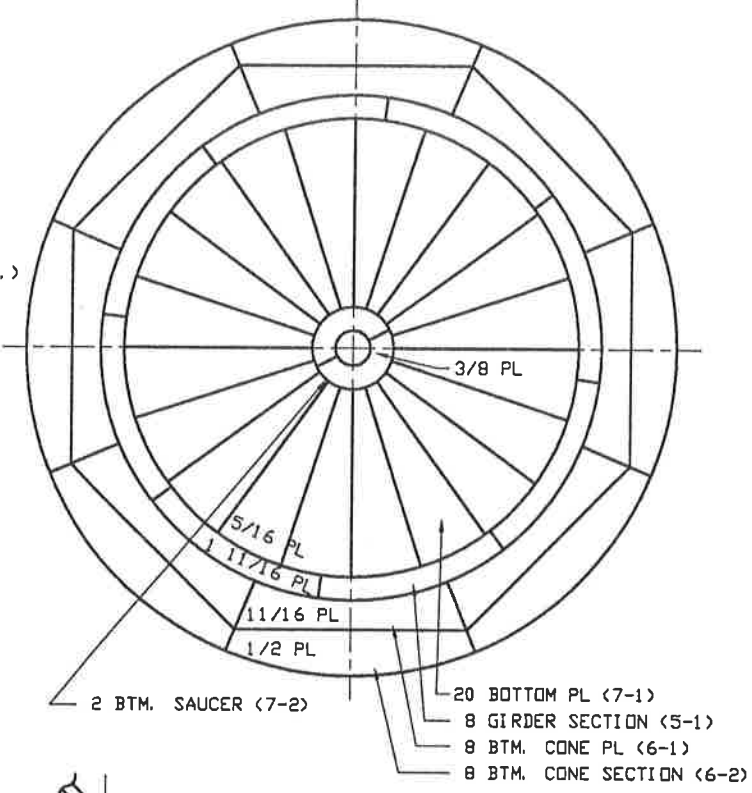
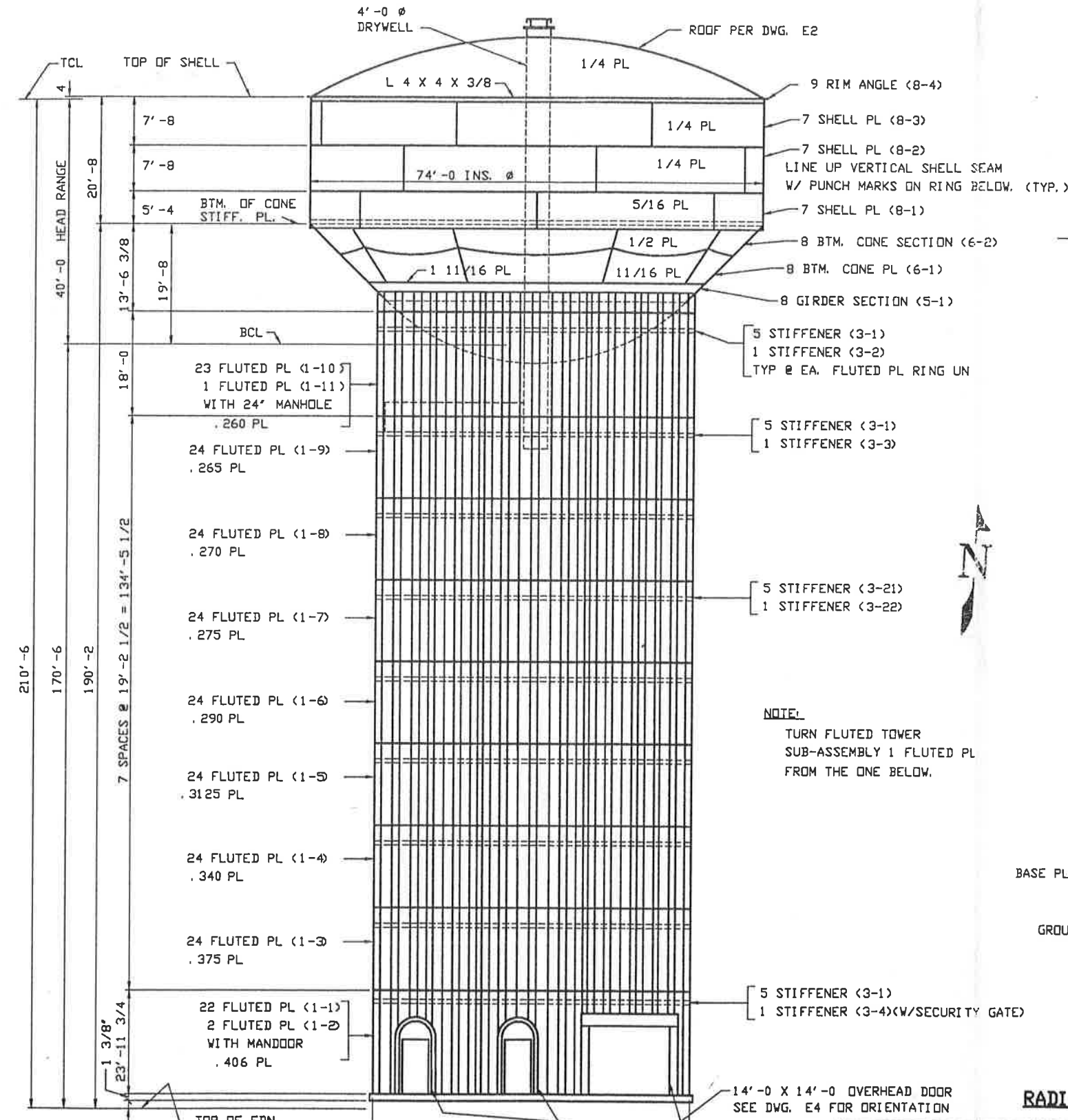
Authorized Signature: _____

Company Name: _____

Printed Name and Title: _____

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A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
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- GENERAL NOTES:**
- WELDING
 - WELD SPECS: AWWA D100-84.
 - ALL FIELD CONNECTIONS WELDED EXCEPT AS LISTED ON FIELD BOLT LIST FBI.
 - ALL WELDS ON ERECTION DWGS. ARE FIELD WELDS.
 - SEE DWG. E3AB FOR FIELD WELDING NOTES.
 - TANK TESTING
 - SPOT X-RAY PER AWWA D100-84 & RT-1.
 - HYDROTEST PER HT-1. UNLESS OTHERWISE STATED IN THE CONTRACT, THE SUPPLY AND DISPOSAL OF THE TEST WATER SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
 - CAUTION** DO NOT FILL TANK UNTIL GROUT HAS SET.
 - SUBLET ITEMS (ALL MATERIAL AND LABOR)
 - FOUNDATION
 - FIELD PAINTING & DISINFECTION
 - ELECTRICAL
 - OVERHEAD DOOR
 - CATHODIC PROTECTION
 - FENCE
 - DRAWING LIST

F1	-	FOUNDATION
E1	-	MAIN ERECTION
E2	-	ROOF ERECTION
E3	-	WELDING DIAGRAM AND GROUND SUB-ASSEMBLIES
E4	-	ORIENTATION
E5	-	TOWER LADDER AND HANDRAIL ERECTION
E6	-	DRYWELL, WALKWAY AND BOTTOM MANHOLE ERECTION
E7	-	OVERFLOW AND INLET ERECTION
E8	-	DOOR ERECTION
E9	-	NOT USED
E10	-	ELECTRICAL
E11	-	LEVEL INDICATOR
D1	-	DISINFECTION INSTRUCTIONS
P2	-	NAME SIGN
 - FOREMAN NOTE:
SEE DWG. E3B FOR SUB-ASSEMBLY COMMENTS & DOCUMENTATION BEFORE BEGINNING CONSTRUCTION.

ENGR. X X 22SEP92
WELD. PCF

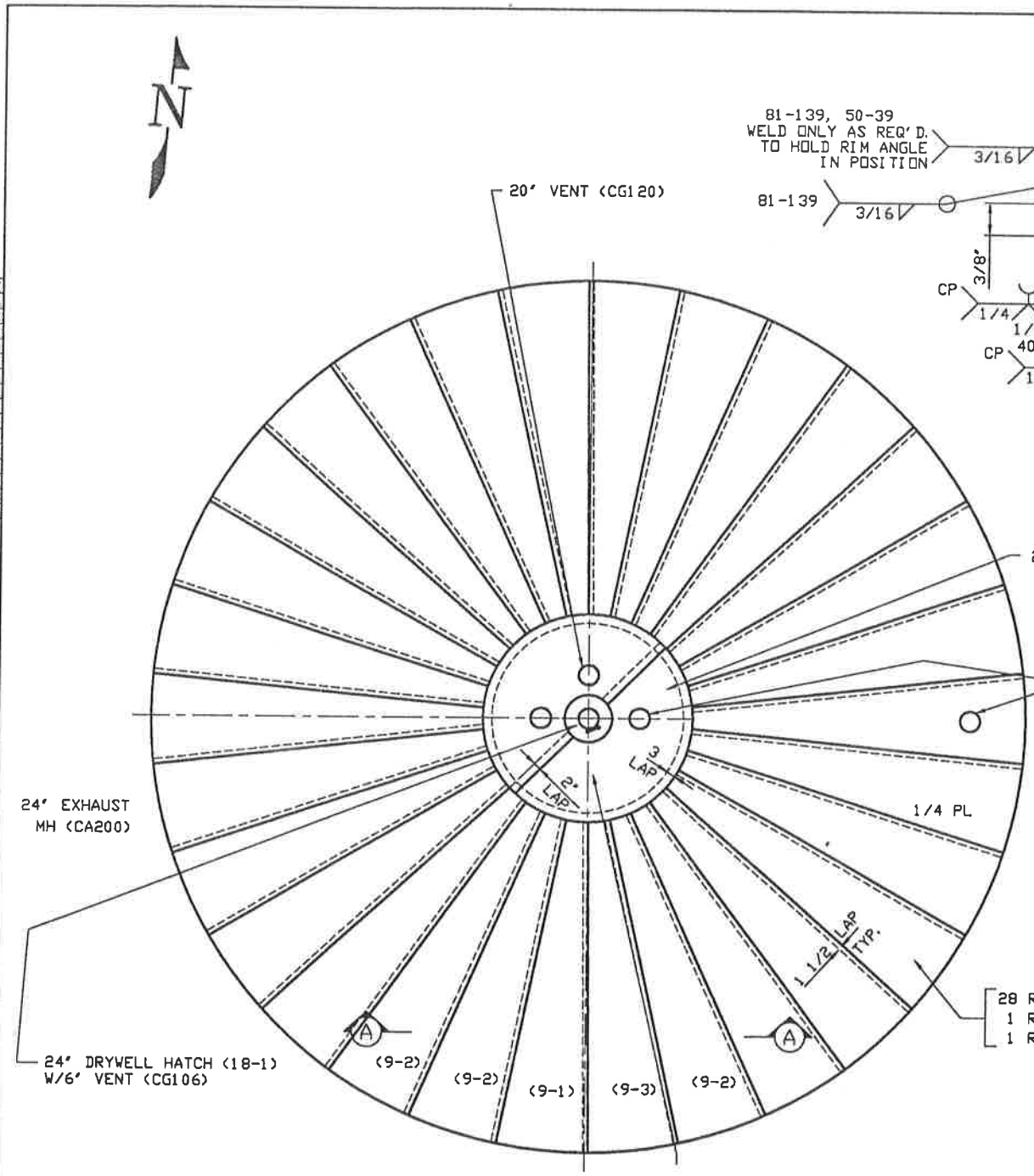
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ERECTION REF.	N/A
WELD SPECS.	AWWA D100-84
EIS	N/A
CERTIFIED FOR CONFORMANCE TO PLANS AND SPECIFICATIONS	
BY	M. WADLE P.E.
STATE	NO.
DATE	03 MAY 96

NO	REVISION DESCRIPTION	BY	DATE	CHK	DATE

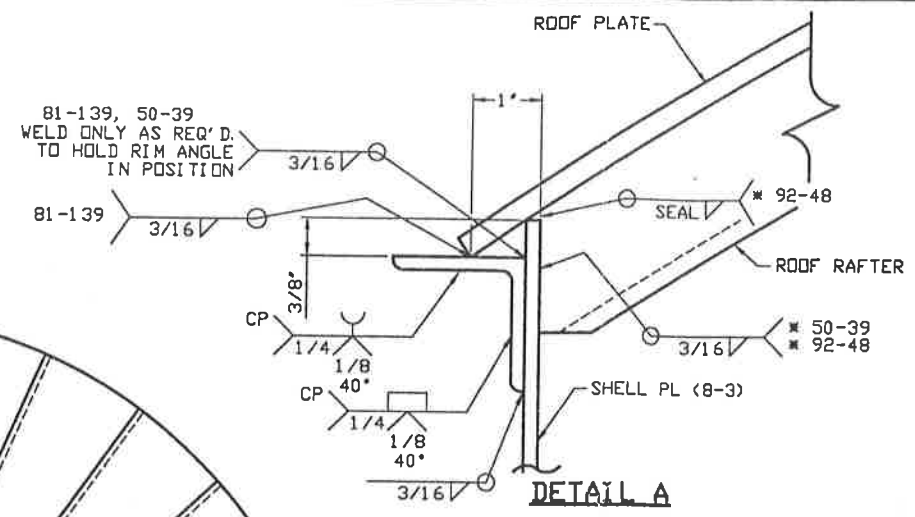


PIT-DES MOINES, INC. ENGINEERS - FABRICATORS - CONTRACTORS			
FORSYTH COUNTY (GILBERT ROAD TANK)			
1000 M GAL HYDROPILLAR 74' DIA X 40' HR			
FORSYTH CO., GA			
MAIN ERECTION			
DWG. PREPARED AT	WRN	FABRICATED AT	CLV
BY	DATE		
DRAWN: KEN	08APR96	DRAWING	E1
CHECKED: NPM	29APR96	CONTRACT	56053

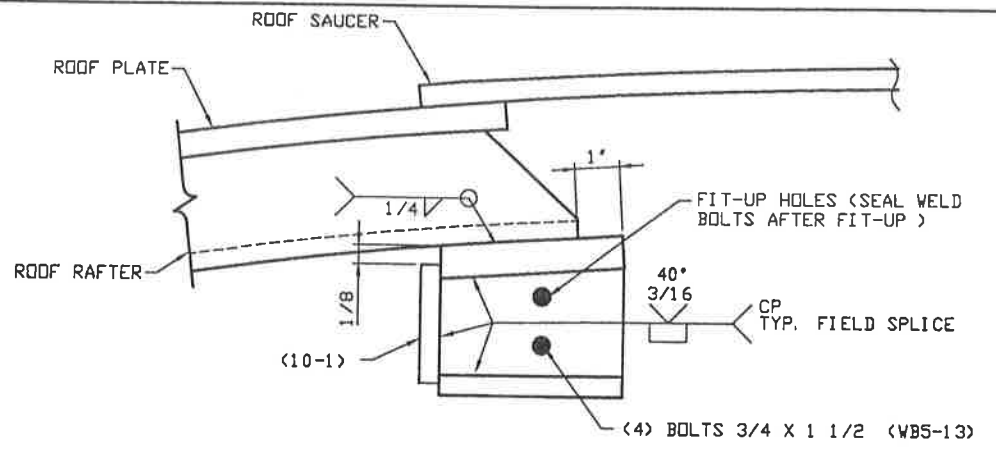
B	A	X
C	B	A
D	C	B
E	D	C
F	E	D
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X	W	V
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Z	Y	X



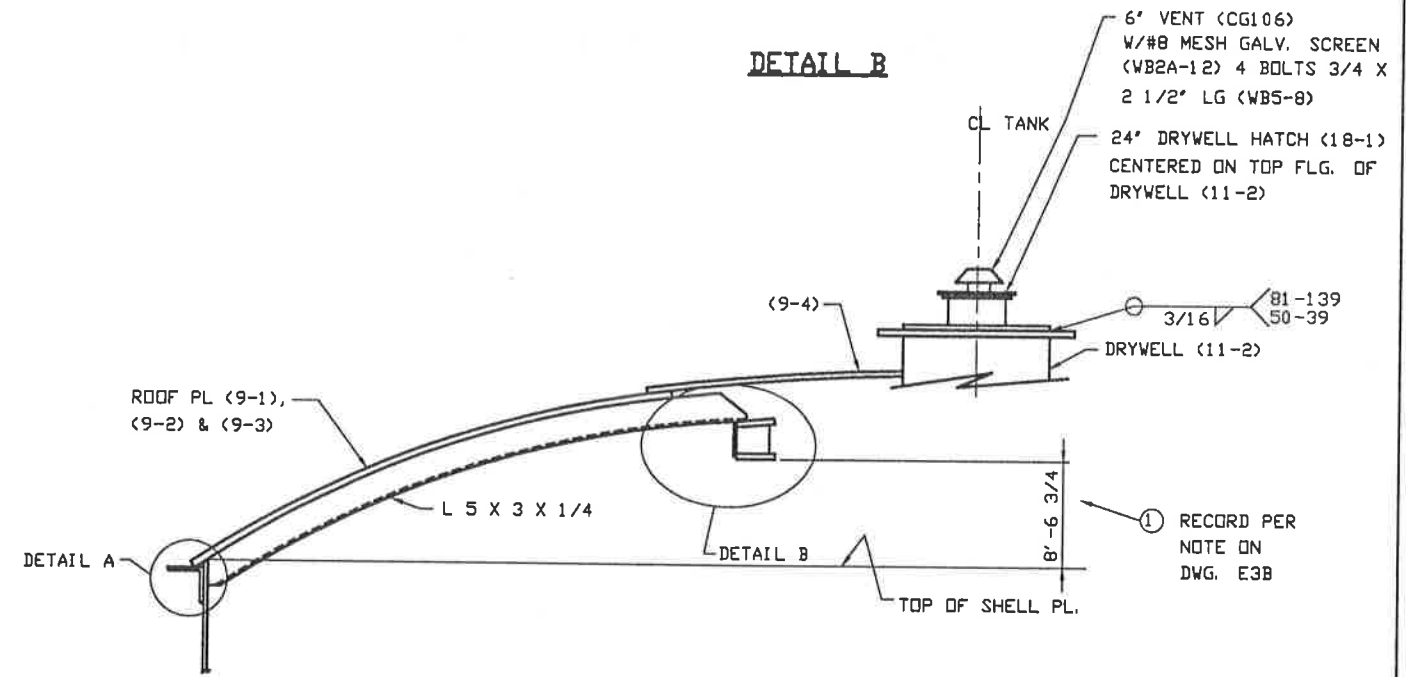
ROOF PLAN



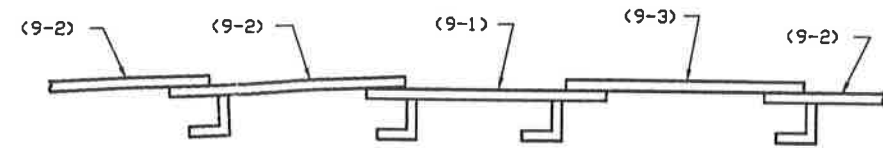
DETAIL A



DETAIL B



**TYP. ROOF FRAMING
DRYWELL HATCH & VENT TO DRYWELL**



SECTION A-A

NOTE A:
ERECT ROOF PL (9-1) (2 ANGLES) FIRST,
THEN CONTINUE CLOCKWISE AROUND
TANK WITH PL'S (9-2) (ONE ANGLE)
AND FINISH WITH PL (9-3) (NO ANGLES).

OPEN HOLES	N/A								
ERECTION REF.	N/A								
WELD SPECS.	AWWA D100-84								
EIS	N/A								
CERTIFIED FOR CONFORMANCE TO PLANS AND SPECIFICATIONS BY M. WADLE P.E.									
STATE	NO.								
DATE	03MAY96								
NO	REVISION DESCRIPTION	BY	DATE	CHK	DATE				

Pitt-Des Moines, Inc.
ENGINEERS - FABRICATORS - CONTRACTORS

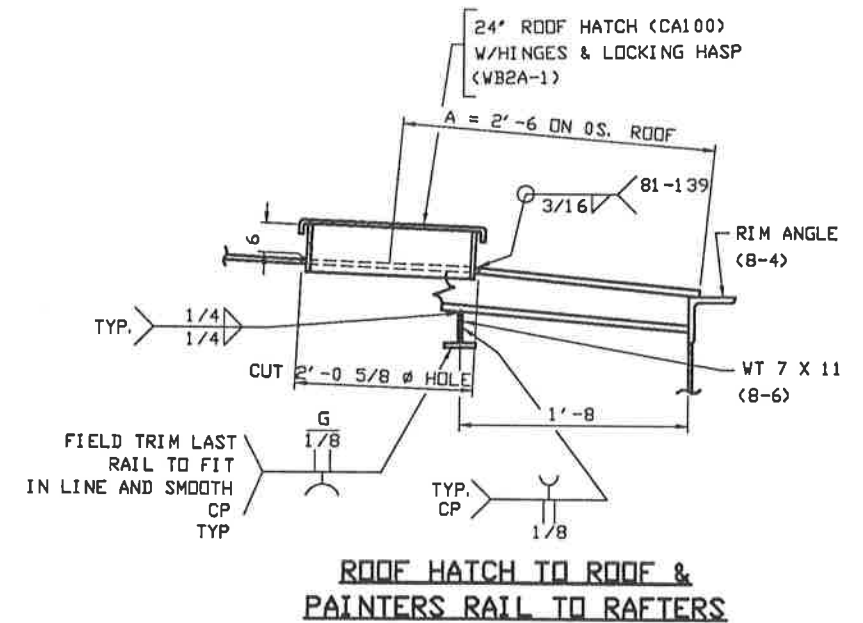
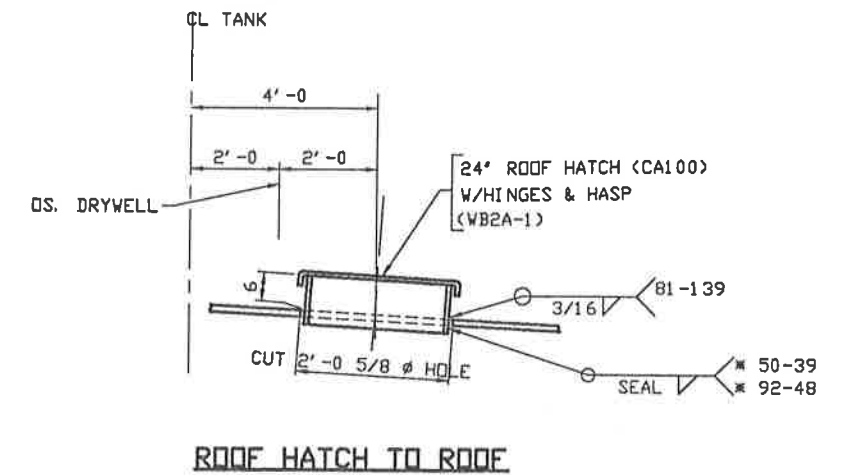
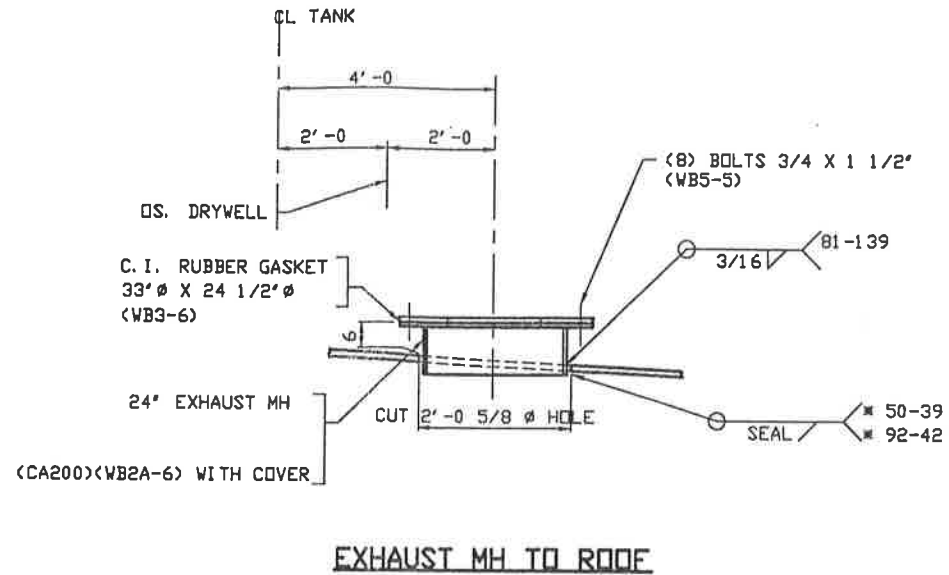
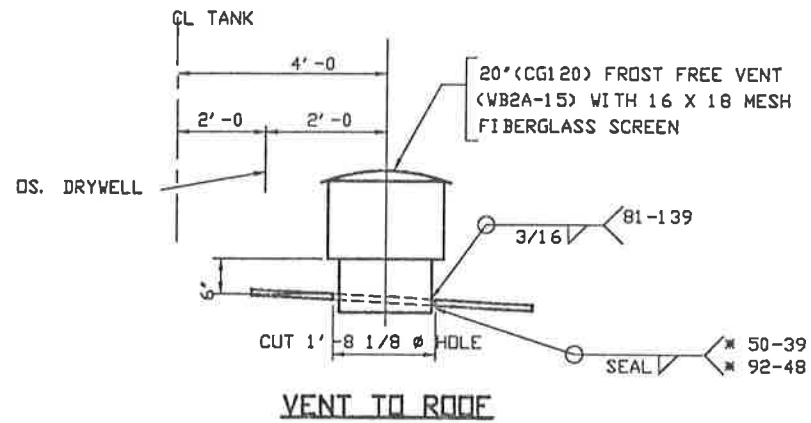
FORSYTH COUNTY (GILBERT ROAD TANK)
1000 M GAL HYDROPILLAR 74' DIA X 40' HR
FORSYTH CO., GA
ROOF ERECTION

DWG. PREPARED AT WRN FABRICATED AT CLV

BY DATE
DRAWN: KEN 08APR96 DRAWING E2AB
CHECKED: NPM 29APR96 CONTRACT 56053

ENGR. X X
WELD. PCF 01FEB94

B A X
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ENGR. X
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 PCF 01FEB94

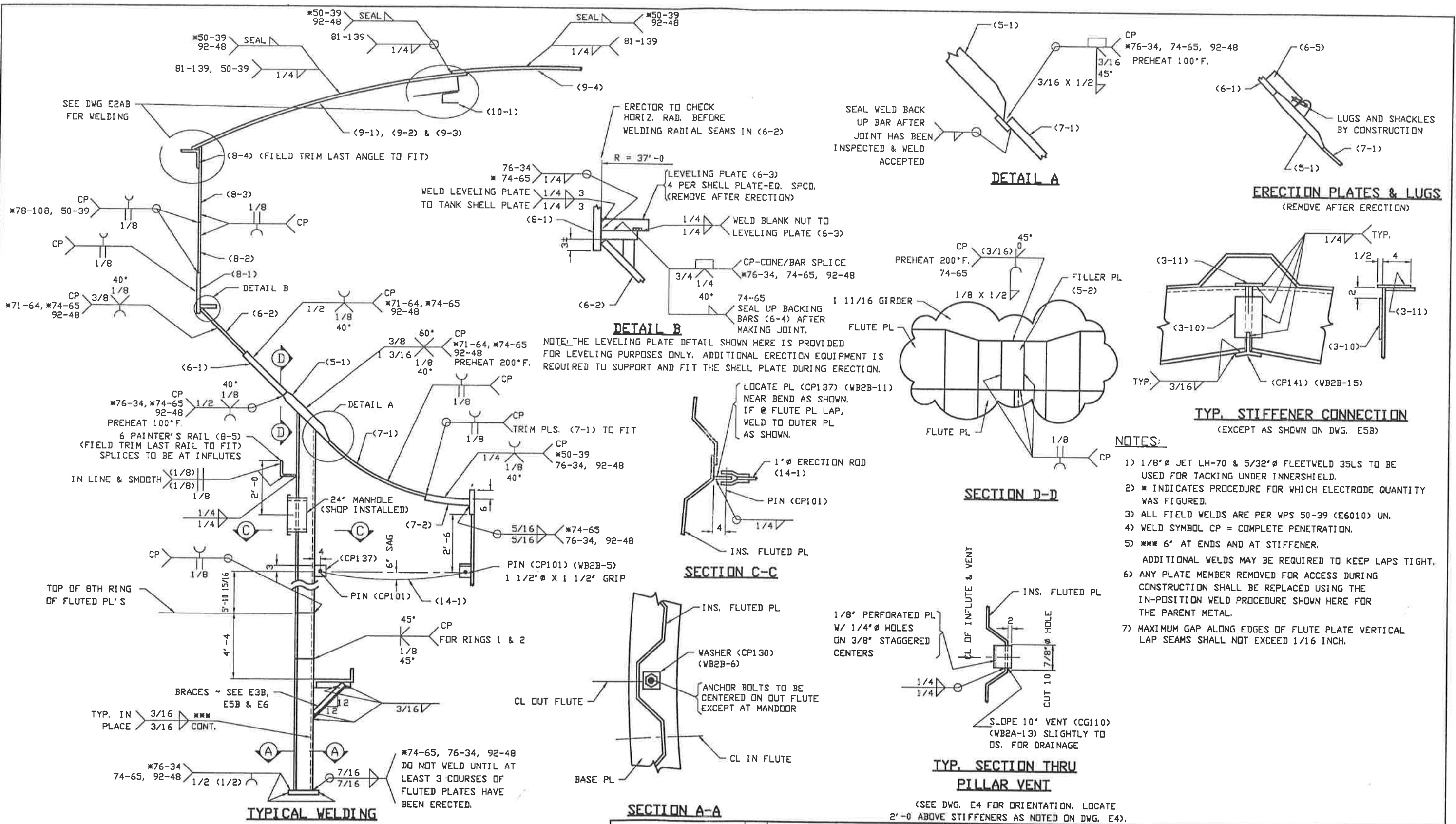
OPEN HOLES	N/A
ERECTION REF.	N/A
WELD SPECS.	AWWA D100-84
EIS-	N/A
CERTIFIED FOR CONFORMANCE TO PLANS AND SPECIFICATIONS BY M. WADLE P.E.	
STATE	NO.
DATE	03 MAY 96

NO	REVISION DESCRIPTION	BY	DATE	CHK	DATE



PITT-DES MOINES, INC. ENGINEERS - FABRICATORS - CONTRACTORS			
FORSYTH COUNTY (GILBERT ROAD TANK)			
1000 M GAL HYDROPILLAR 74' DIA X 40' HR			
FORSYTH CO., GA			
ROOF ERECTION			
DWG. PREPARED AT	WRN	FABRICATED AT	CLV
BY	DATE	DRAWING	
KEN	08APR96	E2B	
CHECKED:	NPM	29APR96	CONTRACT 56053

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DETAIL A

ERECTION PLATES & LUGS (REMOVE AFTER ERECTION)

TYP. STIFFENER CONNECTION (EXCEPT AS SHOWN ON DWG. E5B)

SECTION D-D

SECTION C-C

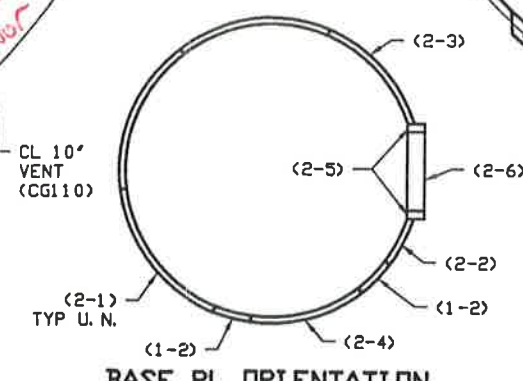
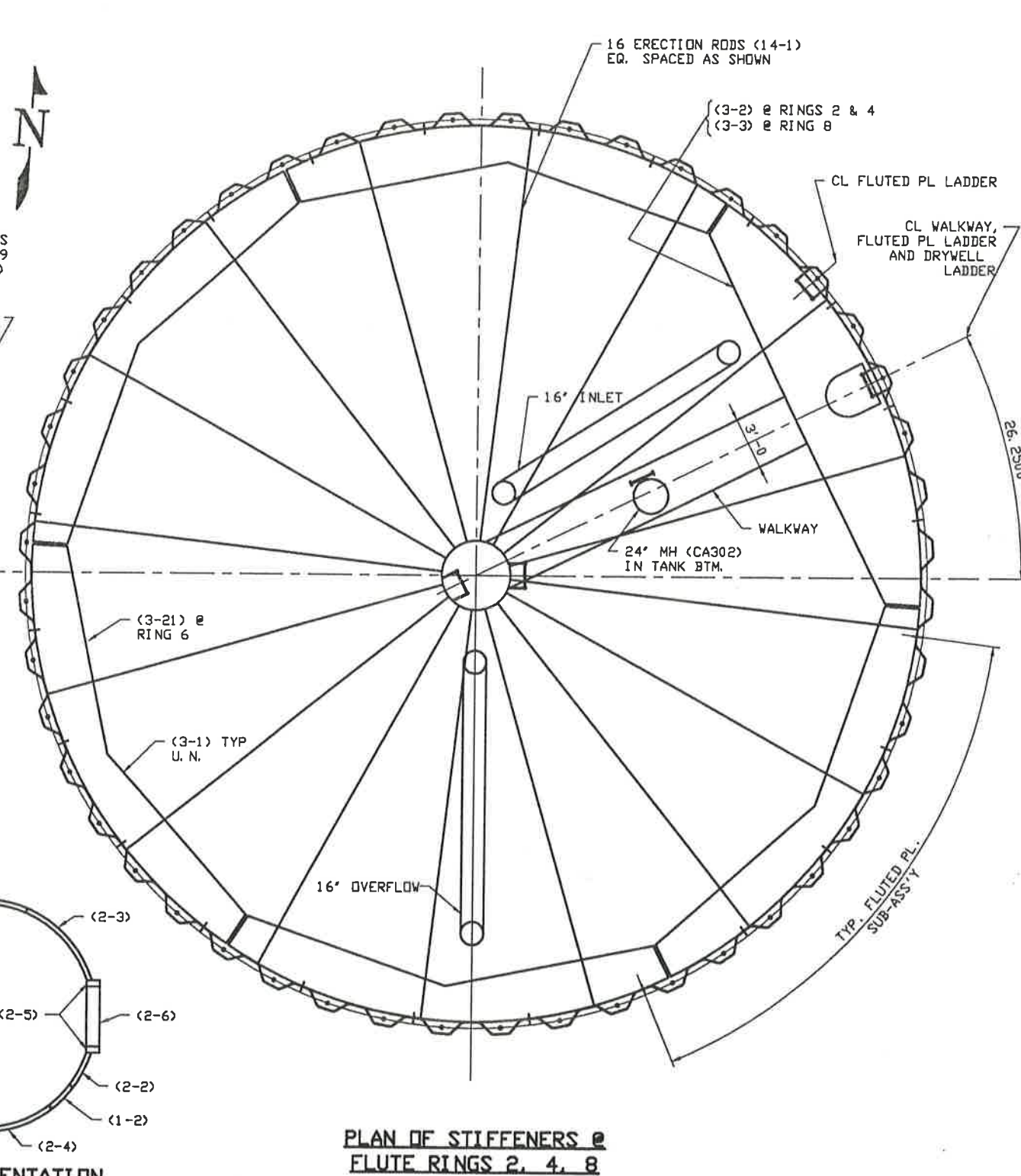
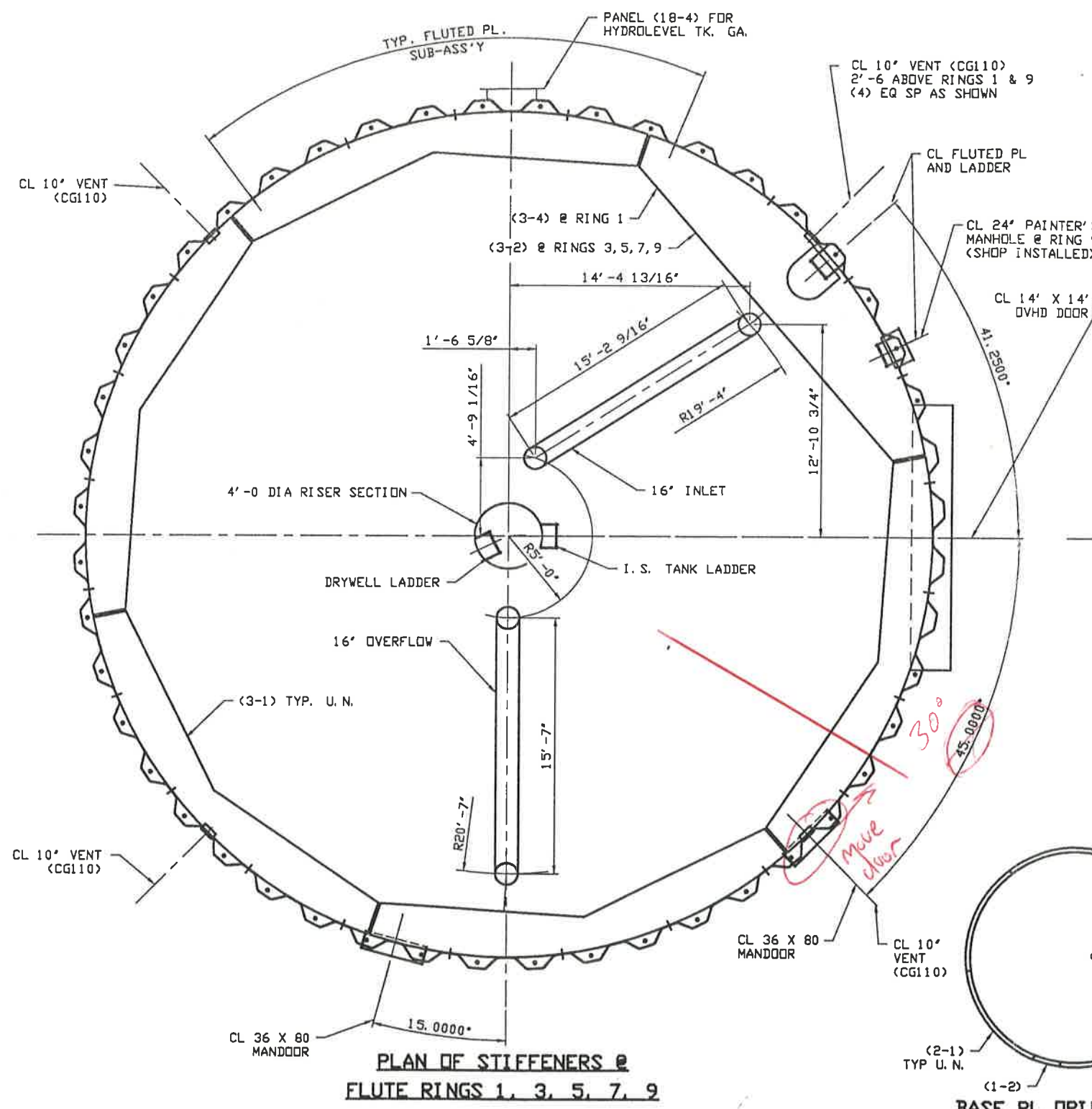
SECTION A-A

NOTES:

- 1) 1/8" JET LH-70 & 5/32" FLEETWELD 35LS TO BE USED FOR TACKING UNDER INNERSHIELD.
- 2) * INDICATES PROCEDURE FOR WHICH ELECTRODE QUANTITY WAS FIGURED.
- 3) ALL FIELD WELDS ARE PER WPS 50-39 (E6010) UN.
- 4) WELD SYMBOL CP = COMPLETE PENETRATION.
- 5) *** 6" AT ENDS AND AT STIFFENER. ADDITIONAL WELDS MAY BE REQUIRED TO KEEP LAPS TIGHT.
- 6) ANY PLATE MEMBER REMOVED FOR ACCESS DURING CONSTRUCTION SHALL BE REPLACED USING THE IN-POSITION WELD PROCEDURE SHOWN HERE FOR THE PARENT METAL.
- 7) MAXIMUM GAP ALONG EDGES OF FLUTE PLATE VERTICAL LAP SEAMS SHALL NOT EXCEED 1/16 INCH.

ENGR. X
WELD. X
PCF 18NOV94

RA
X
A
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Z



**PLAN OF STIFFENERS @
FLUTE RINGS 1, 3, 5, 7, 9**

**PLAN OF STIFFENERS @
FLUTE RINGS 2, 4, 8**
(SEE DWG. E4B FOR PLAN @ RING 6)

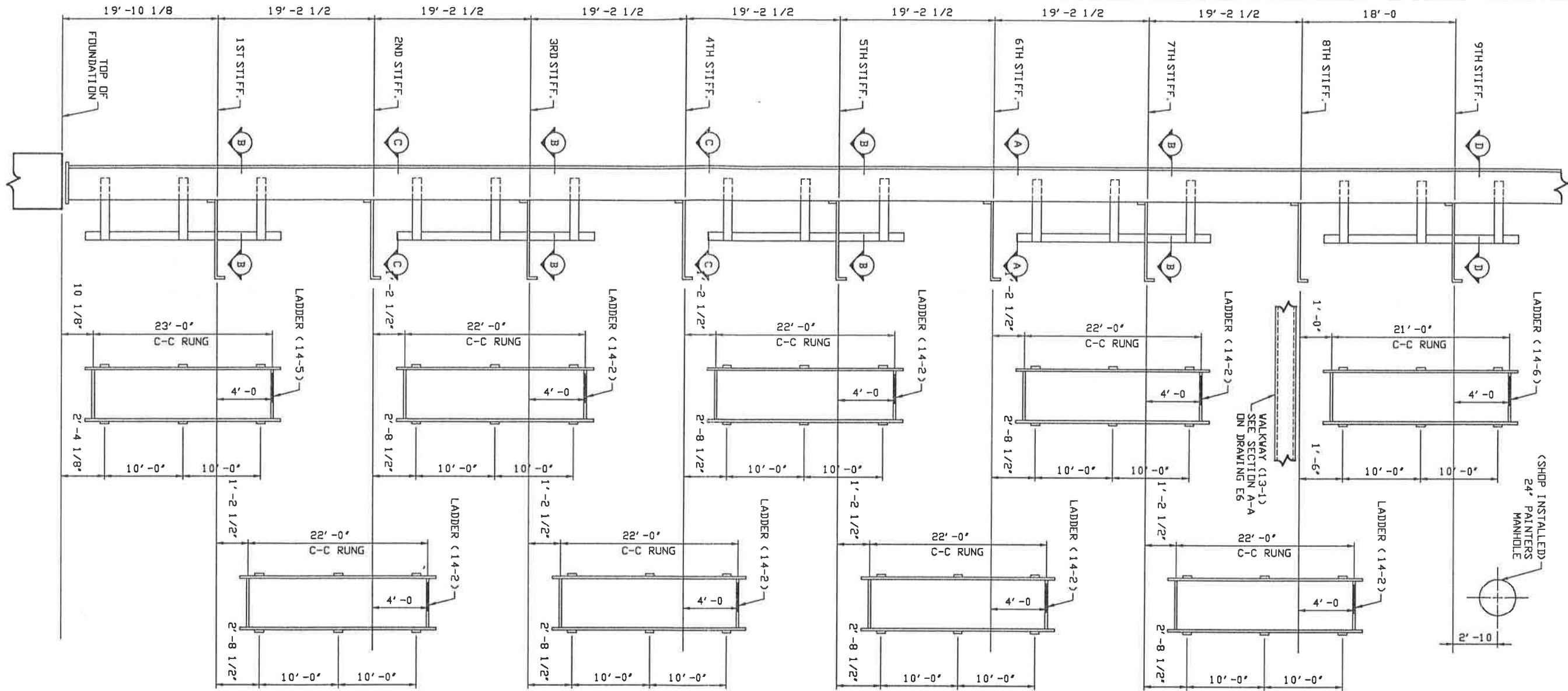
OPEN HOLES N/A
ERECTION REF. N/A
WELD SPECS. AWWA D100-84
EIS- N/A
CERTIFIED FOR CONFORMANCE
TO PLANS AND SPECIFICATIONS
BY M. WADLE P.E.
STATE NO. _____
DATE 03MAY96

NO	REVISION DESCRIPTION	BY	DATE	CHK	DATE



PITT-DES MOINES, INC.
ENGINEERS - FABRICATORS - CONTRACTORS
FORSYTH COUNTY (GILBERT ROAD TANK)
1000 M GAL HYDROPILLAR 74' DIA X 40' HR
FORSYTH CO., GA
ORIENTATION
DWG. PREPARED AT WRN FABRICATED AT CLV
BY DATE
DRAWN: CDN 08APR96 DRAWING E4AB
CHECKED: NPM 24APR96 CONTRACT 56053

ENGR. X X 9/22/92
VELD. N/A



ELUTED TOWER LADDERS

NOTE

1. LADDER MATERIAL
SIDE RAILS - PL 3/8" X 2" @ 1'-4" APART
RUNGS - ROD #6 @ 1'-0" C-C A706
BRACKETS - PL 3/8" X 2 1/2"
2. SEE DWG. E4 FOR ORIENTATION
3. SEE DWG. E5B FOR SECTIONS B-B, C-C & D-D

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
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OPEN HOLES	N/A
ERECTION REF.	N/A
WELD SPECS.	AWSA D100-84
EIS	N/A
CERTIFIED FOR CONFORMANCE TO PLANS AND SPECIFICATIONS	
BY <u>M. WADLE</u> P.E.	
STATE	NO.
DATE	<u>03 MAY 96</u>

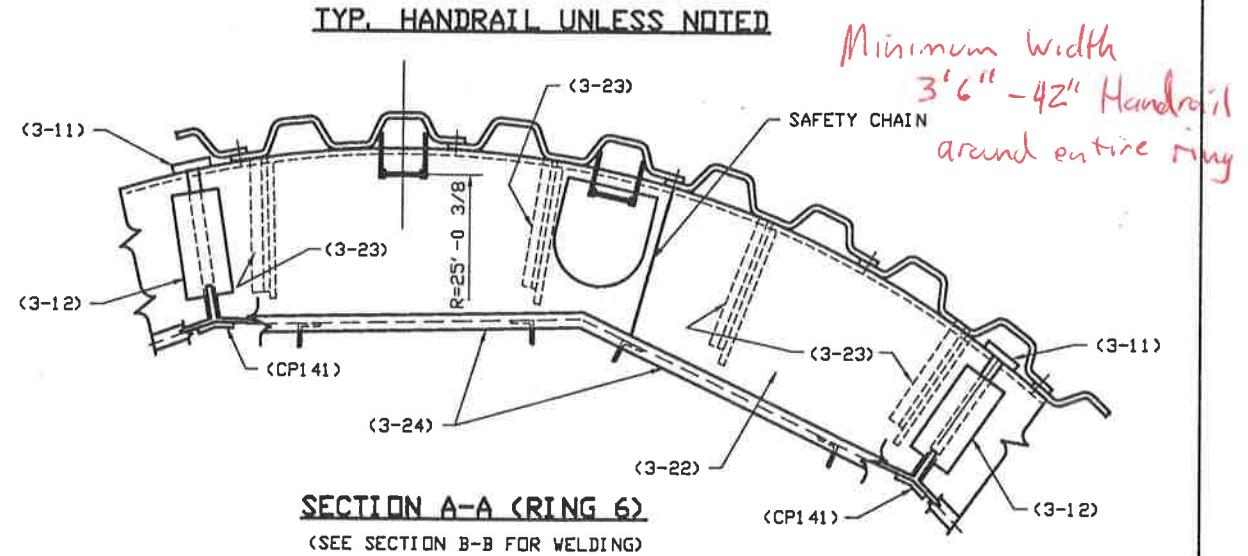
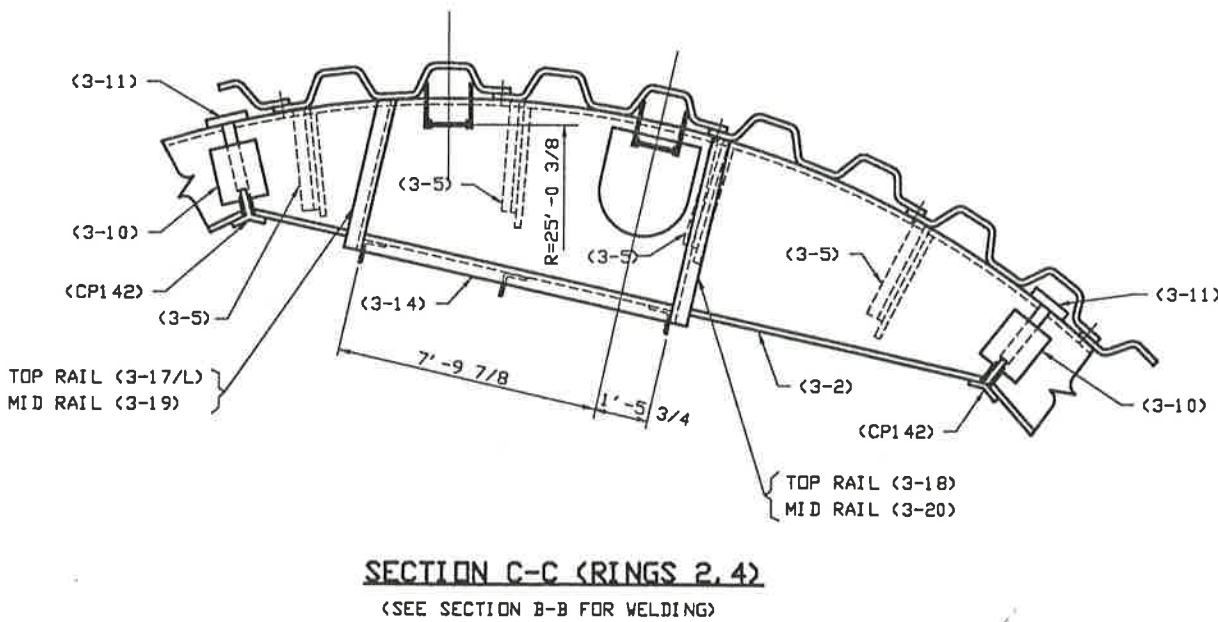
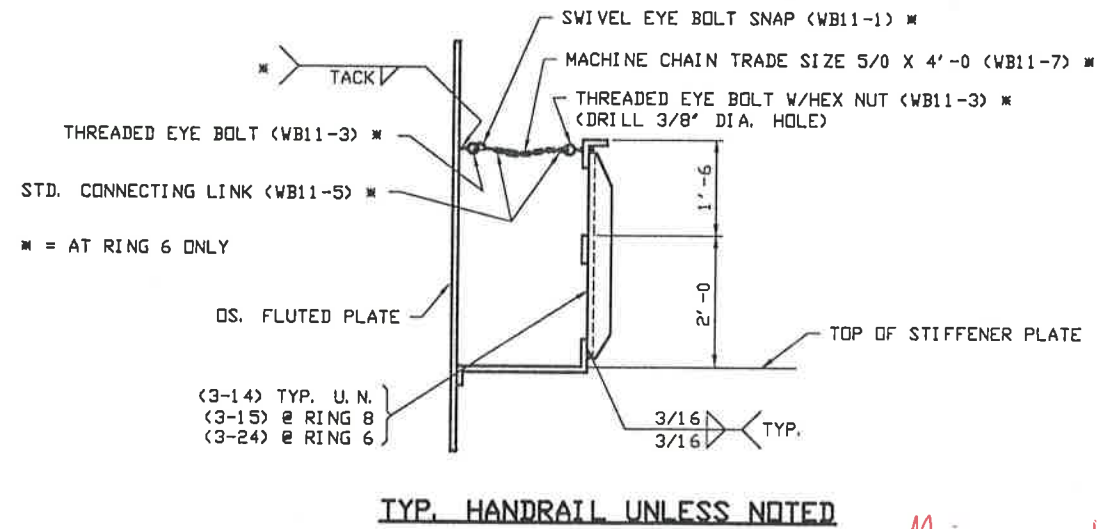
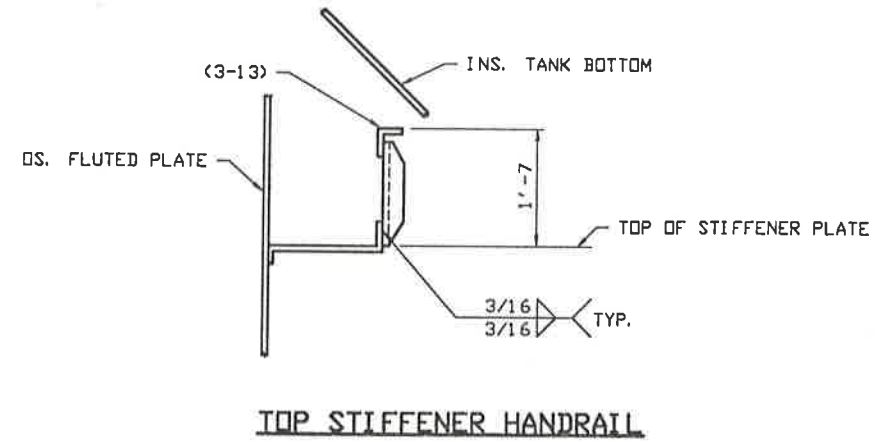
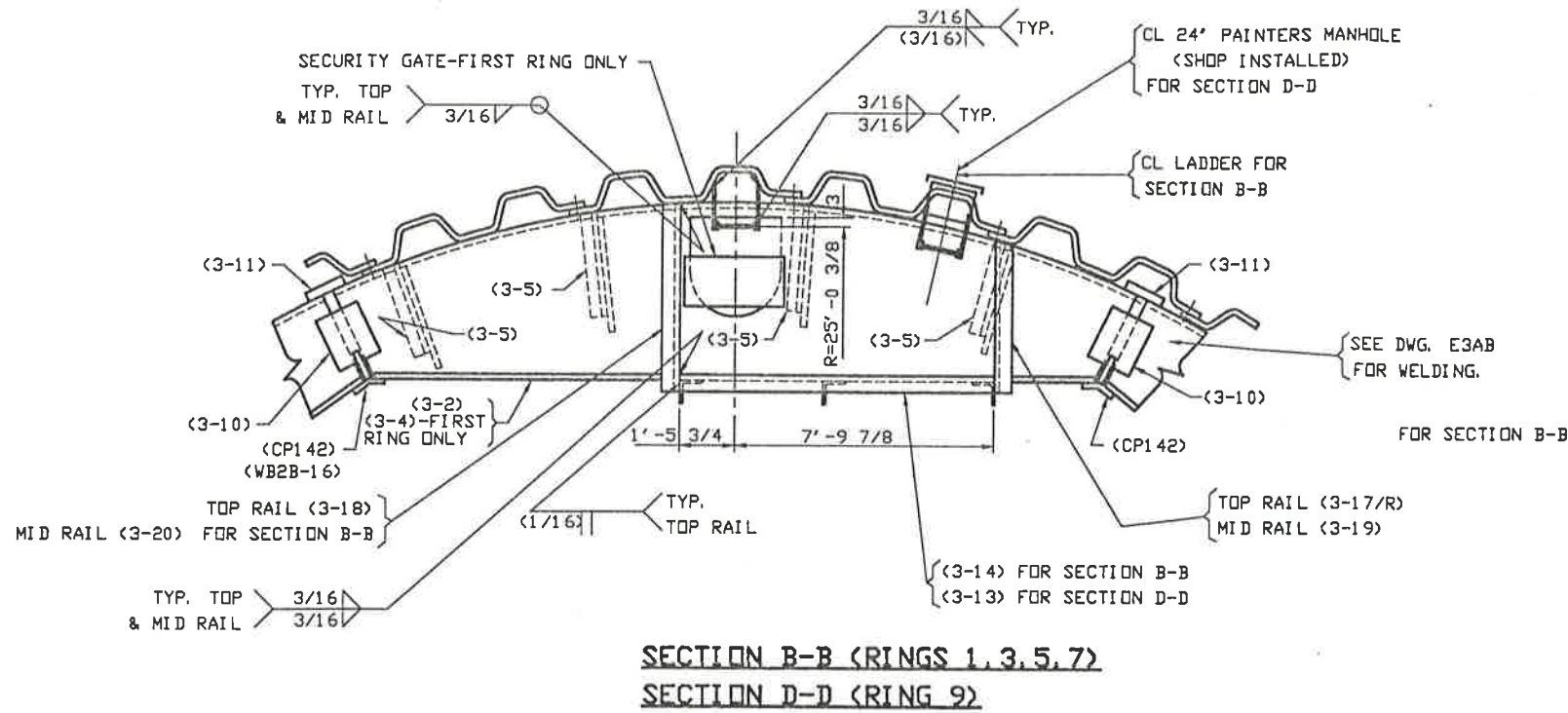
NO	REVISION	DESCRIPTION	BY	DATE	CHK	DATE



PITT-DES MOINES, INC. ENGINEERS - FABRICATORS - CONTRACTORS			
FORSYTH COUNTY (GILBERT ROAD TANK)			
1000 M GAL HYDROPILLAR 74' DIA X 40' HR			
FORSYTH CO., GA			
TOWER LADDER ERECTION			
DWG. PREPARED AT	WRN	FABRICATED AT	CLV
BY	DATE	DATE	DATE
DRAWN: <u>CDN</u>	<u>03APR96</u>	DRAWING <u>ESAB</u>	
CHECKED: <u>NPM</u>	<u>25APR96</u>	CONTRACT <u>56053</u>	

ENGR. WELD. X X A/N

Grid reference table with letters A through X and numbers 1 through 10.



ENGR. X X WELD. PCF 22SEP92

OPEN HOLES N/A
ERECTION REF. N/A
WELD SPECS. AWWA D100-84
EIS- N/A
CERTIFIED FOR CONFORMANCE TO PLANS AND SPECIFICATIONS BY M. WADLE P.E.
STATE NO.
DATE 03MAY96

NO	REVISION DESCRIPTION	BY	DATE	CHK	DATE



PITT-DES MOINES, INC.
ENGINEERS - FABRICATORS - CONTRACTORS
FORSYTH COUNTY (GILBERT ROAD TANK)
1000 M GAL HYDROPILLAR 74' DIA X 40' HR
FORSYTH CO., GA
TOWER LADDER & HANDRAIL ERECTION
DWG. PREPARED AT WRN FABRICATED AT CLV
BY DATE
DRAWN: CDN 25APR96 DRAWING E5B
CHECKED: NPM 30APR96 CONTRACT 56033

LADDER SAFETY DEVICES

DRYWELL & RISER LADDER
 'SAF-T-CLIMB' GALV. NOTCHED
 RAIL 526-101-001, 64'-0 C C RUNG
 W/GALV. REMOV. EXTENSION KIT
 802-101-054 (WB12-9)

INSIDE TANK LADDER
 'SAF-T-CLIMB' GALV. NOTCHED
 RAIL 526-101-001, 50'-0 C C RUNG
 W/GALV. REMOV. EXTENSION KIT
 802-101-054 (WB12-13)

LADDER MATERIAL

SIDE RAILS - PL 3/8" X 2' @ 1'-4 APART
 RUNGS - ROD #6 @ 1'-0 C-C A706
 BRACKETS - PL 3/8" X 2 1/2"

**SHIP TO CUSTOMER'S
 ENG'R BY FAB. SHOP**

2 HARNESS L2010 (WB7-17)
 2 LANYARD L3300DP6 (WB7-18)
 2 'SAF-T-LOK' SLEEVE 602-100-001 (WB12-5)
 2 TUBULAR RUBBER GASKETS (WB3-1)
 FOR 24' M. H.

SEE DWG. E2 FOR DRYWELL HATCH ERECTION

4-2 1/2" 3000# SCREWED
 COUPLING (WB6-9) W/PLUG
 (WB6-10) LOCATE ON ROOF
 AT 90° APART

REMOVE AND PLACE EXTENSION KIT IN
 BRK' TS (14-10) & (14-11) WHEN NOT IN USE

STD LINK MACHINE CHAIN
 TRADE SIZE 3/0 X 6'-0
 TACK WELD TO LADDER &
 EXTENSION (WB7-6)

SECTION D-D

PDM, INC. ASSUMES
 NO RESPONSIBILITY
 FOR DAMAGE CAUSED
 BY BUILD UP OF ICE
 ON LADDER OR LADDER
 SAFETY DEVICE.

SECTION C-C

EDGES OF WALKWAY TO BE LOCATED
 OVER GUSSETS.

MID RAIL SPLICE

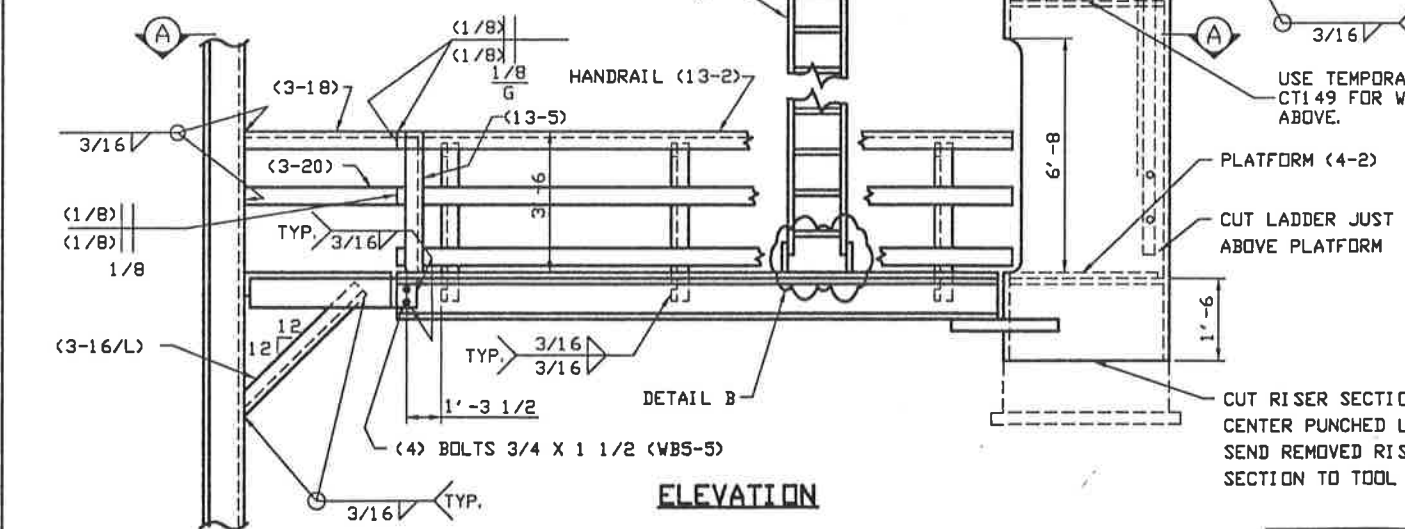
ARC = 2'-0 ON DS. RISER FOR
 2'-0 X 6'-8 CUT OUT. USE TEMPLATE
 (18-2) (SEE NOTE A). BOTTOM OF
 OPENING TO BE FLUSH W/TOP OF
 WALKWAY (13-1) & PLATFORM (4-2)

NOTE A

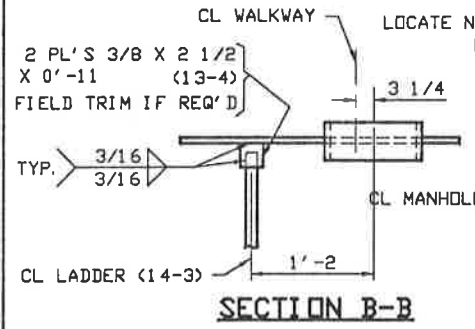
OPENING TO BE CUT AFTER
 DERRICK HAS BEEN REMOVED

SECTION A-A

(SEE DWG. E4 FOR CORRECT ORIENTATION.)
 (SEE DWG. E3B FOR FLUTED PL SUB-ASSEMBLY WELDING.)



ELEVATION

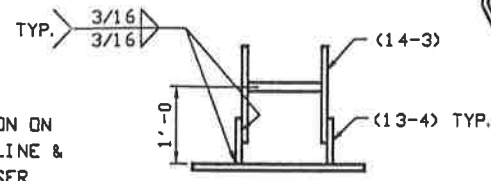


SECTION B-B

DETAIL A



DETAIL B



OPEN HOLES	N/A
ERECTION REF.	N/A
WELD SPECS.	AWWA D100-84
EIS-	N/A
CERTIFIED FOR CONFORMANCE TO PLANS AND SPECIFICATIONS	
BY	M. WADLE P.E.
STATE	NO.
DATE	03MAY96

NO	REVISION DESCRIPTION	BY	DATE	CHK	DATE



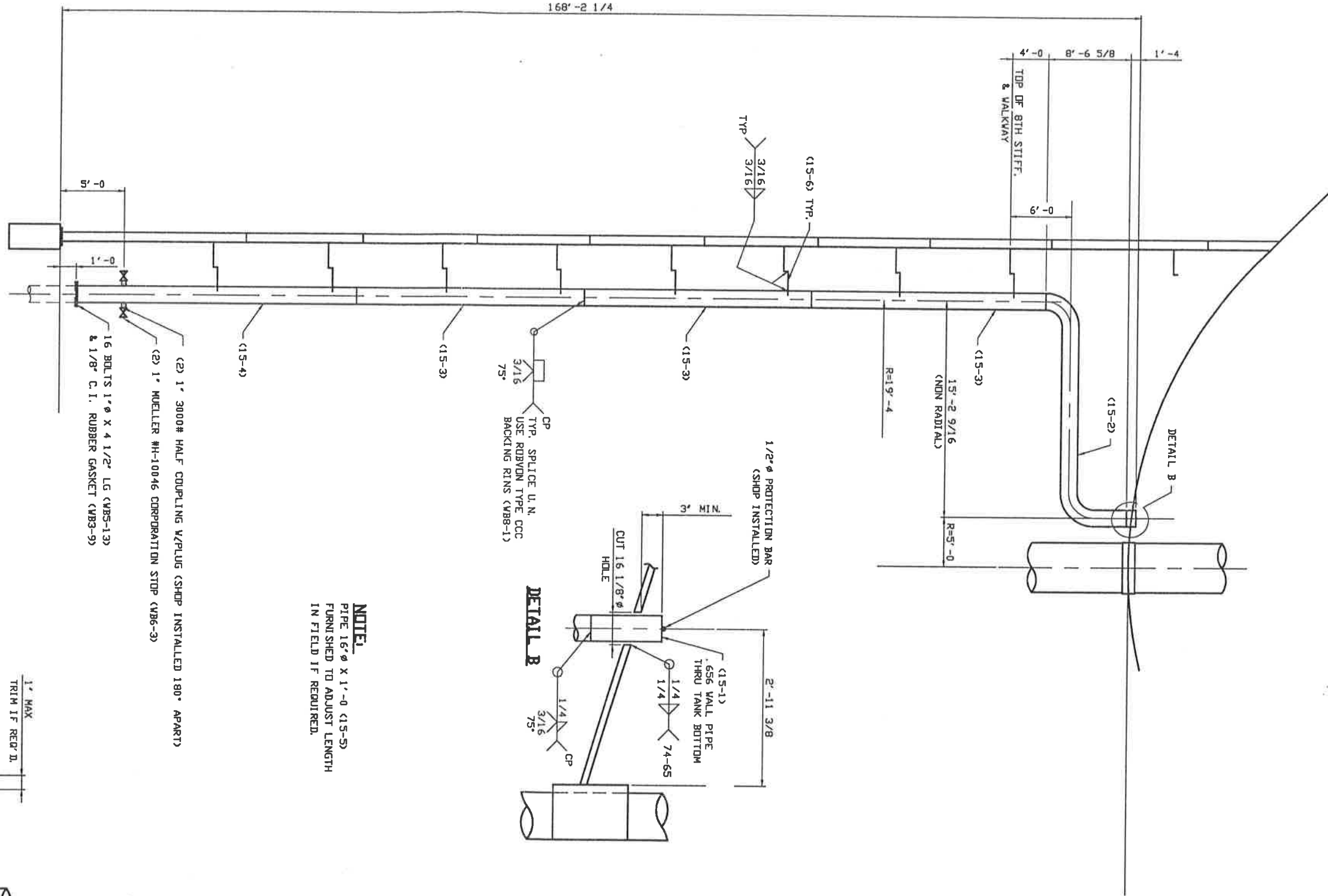
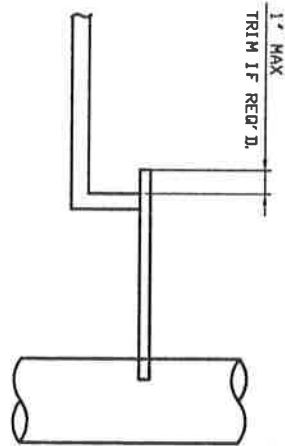
PIT-DES MOINES, INC. ENGINEERS - FABRICATORS - CONTRACTORS			
FORSYTH COUNTY (GILBERT ROAD TANK)			
1000 M GAL HYDROPILLAR 74' DIA X 40' HR			
FORSYTH CO., GA			
DRYWELL, WALKWAY, & BOTTOM MH ERECTION			
DWG. PREPARED AT	WRN	FABRICATED AT	CLV
BY	DATE	DATE	DATE
DRAWN: KEN	08APR96	DRAWING	E6
CHECKED: NPM	29APR96	CONTRACT	56053

ENGR. X X
 WELD. PCF 18NDV94

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16" INLET ERECTION
 .375 WALL PIPE UND.
 (SEE DWG. E4 FOR ORIENTATION)

DETAIL A



NOTE:
 PIPE 16" Ø X 1'-0" (15-5)
 FURNISHED TO ADJUST LENGTH
 IN FIELD IF REQUIRED.

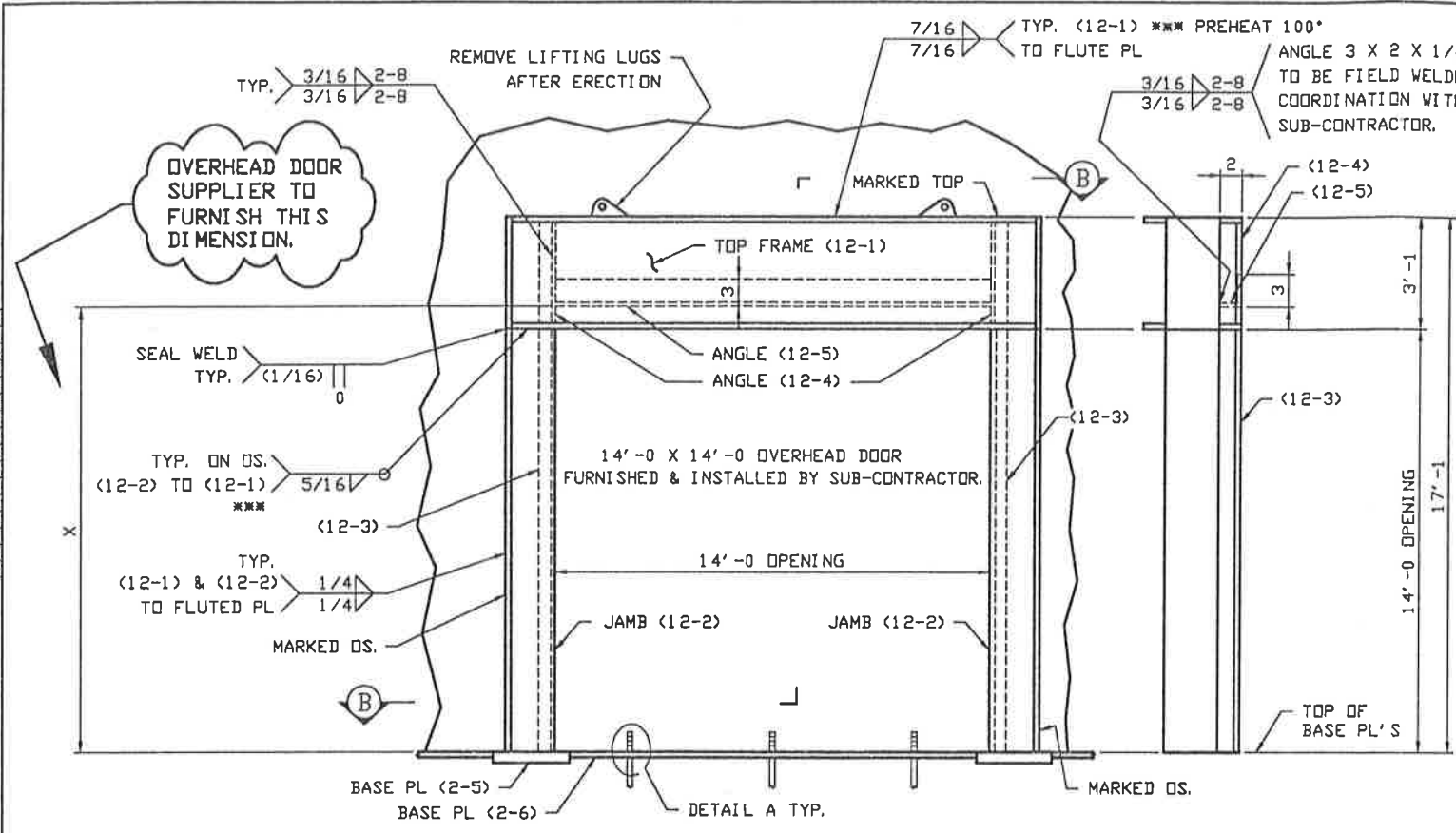
OPEN HOLES	N/A
ERECTION REF.	N/A
WELD SPECS.	AWWA D100-84
EIS-	N/A
CERTIFIED FOR CONFORMANCE TO PLANS AND SPECIFICATIONS BY M. WADLE P.E.	
STATE	NO.
DATE	03MAY96

NO	REVISION DESCRIPTION	BY	DATE	CHK	DATE

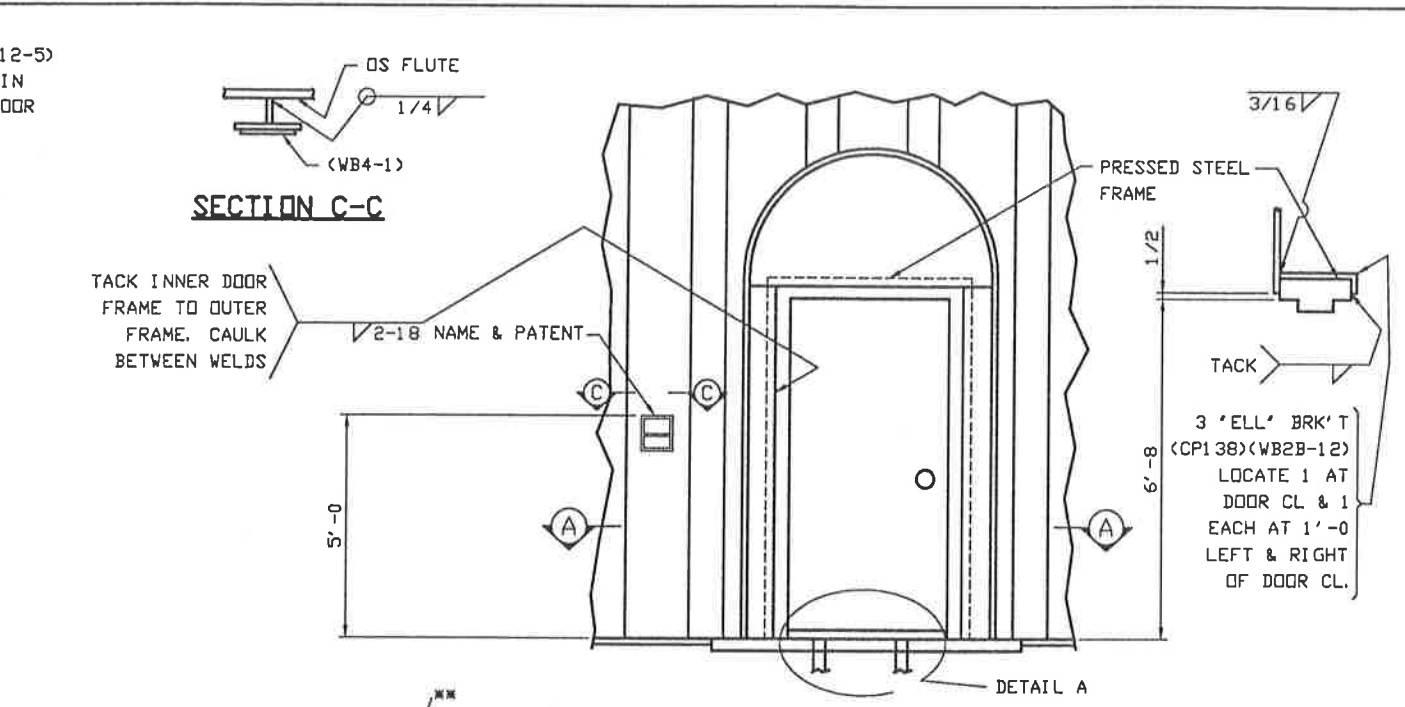


PITT-DES MOINES, INC. ENGINEERS - FABRICATORS - CONTRACTORS			
FORSYTH COUNTY (GILBERT ROAD TANK)			
1000 M GAL HYDROPILLAR 74' DIA X 40' HR			
FORSYTH CO., GA			
16" INLET ERECTION			
DWG. PREPARED AT	WRN	FABRICATED AT	CLV
BY	DATE	DRAWING	
KEN	9APR96	E7B	
CHECKED: NPM	01MAY96	CONTRACT 56053	

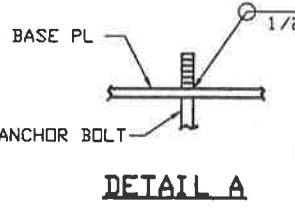
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ELEVATION OF OVERHEAD DOOR FRAME
(OS. SHOWN)

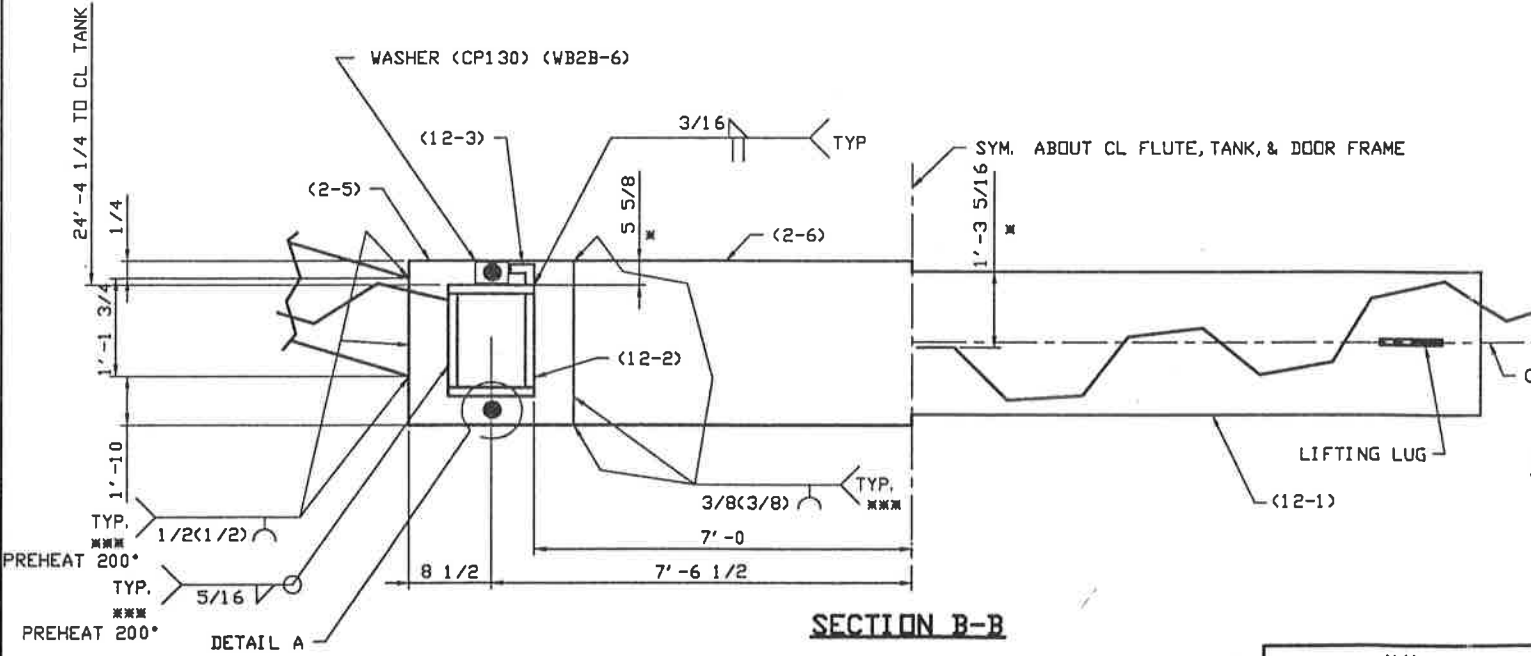


ELEVATION OF MANDOOR (1-2)
(OS. SHOWN) (2 REQ'D)



DETAIL A

- ** AFTER ERECTION BURN OFF ANCHOR BOLTS INSIDE DOOR FRAME FLUSH WITH BASE PL. WELD FULL & GRIND SMOOTH
 ** = ANCHOR AT JAMB (12-2) TO BE BURNED OFF AND WELDED PRIOR TO INSTALLING
- | | |
|---------------------------------------|---------|
| 2 AMWELD DOOR 154-16-3068 F (LHR) | (WB9-1) |
| 2 AMWELD FRAME 400-14-4.75-3068 (LHR) | (WB9-2) |
| 6 STANLEY HINGES F179 X NRP X USP | (WB9-4) |
| 2 RUSSWIN LOCK CK4251-GRC-626 | (WB9-5) |
| W/2 KEYS 36465 | |
| 2 PEMKO AUTOMATIC DOOR BTM 412AN X XX | (WB9-7) |
| 2 1/10 CARTRIDGE MOBAY WHITE SILICONE | (WB9-9) |

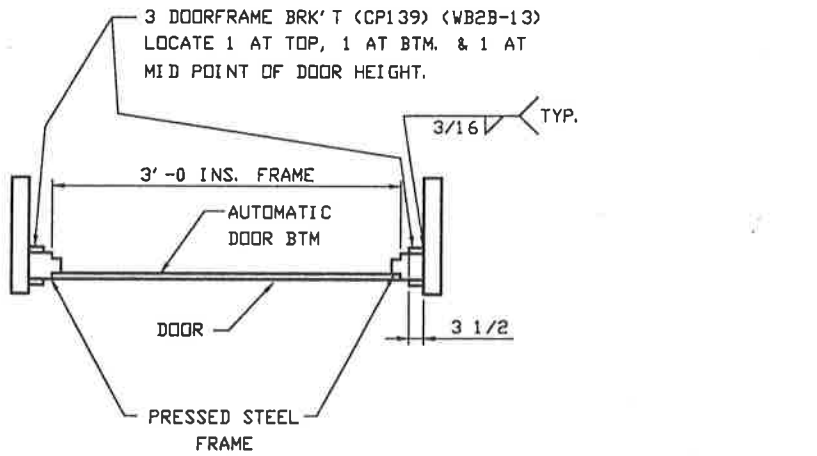


SECTION B-B

NOTE

- * SPECIAL CARE SHOULD BE TAKEN TO HOLD THESE DIMENSIONS.
 1. TOP OF BASE PLATES TO BE FLUSH.
 2. GROUT UNDER BASE PLATES.
 3. JAMB TO BASE PL & JAMB TO TOP FRAME ARE BEARING CONNECTIONS, FIELD TO INSURE FULL BEARING BEFORE WELDING.

USE THESE PROCEDURES NOTED BY ***
 92-48
 74-65
 71-64
 76-34



SECTION A-A

ENGR. X X
 WELD. PCF 10/08/93

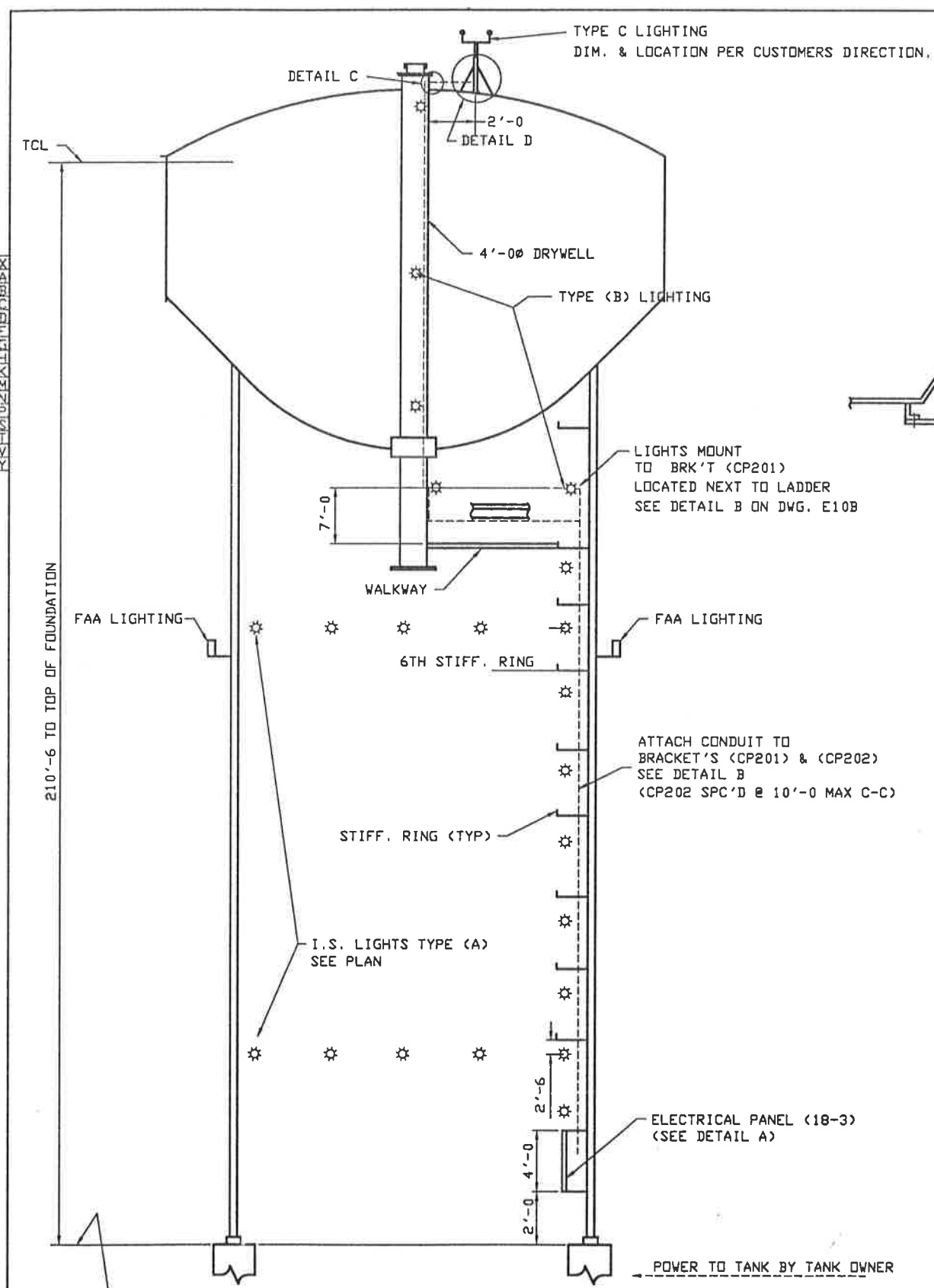
OPEN HOLES	N/A
ERECTION REF.	N/A
WELD SPECS.	AWWA D100-84
EIS	N/A
CERTIFIED FOR CONFORMANCE TO PLANS AND SPECIFICATIONS BY M. WADLE P.E.	
STATE	NO.
DATE	03 MAY 96

NO	REVISION DESCRIPTION	BY	DATE	CHK	DATE

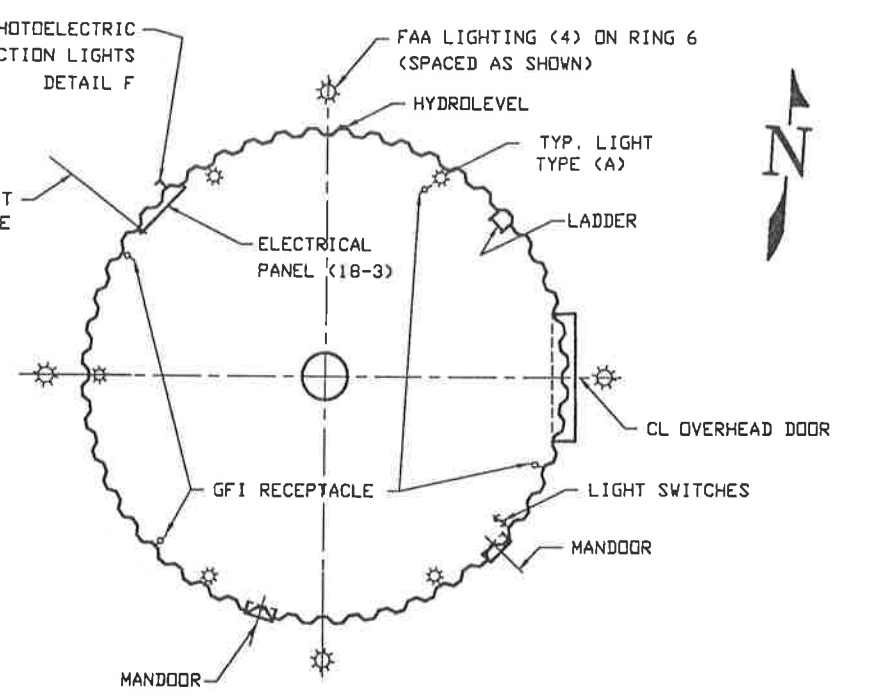
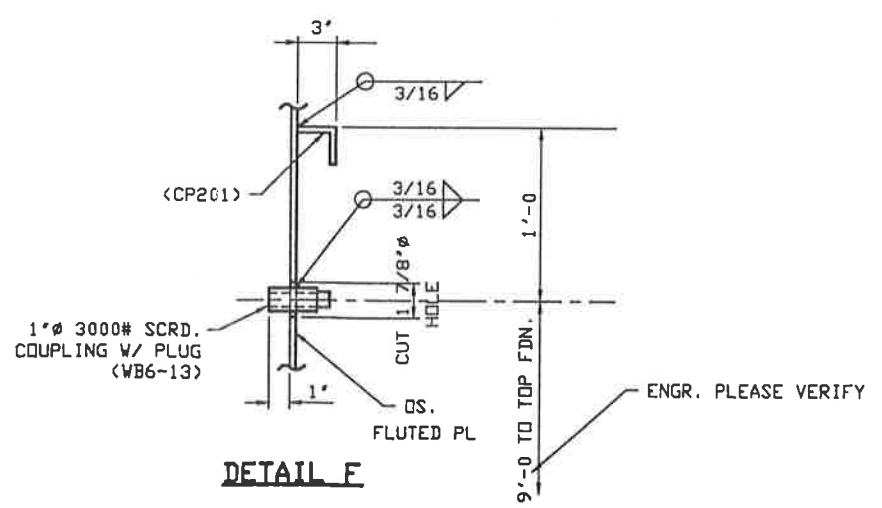
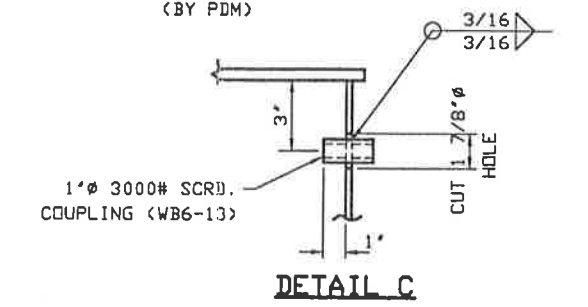
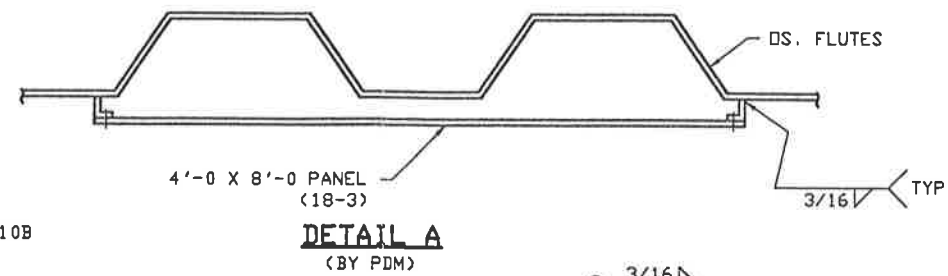
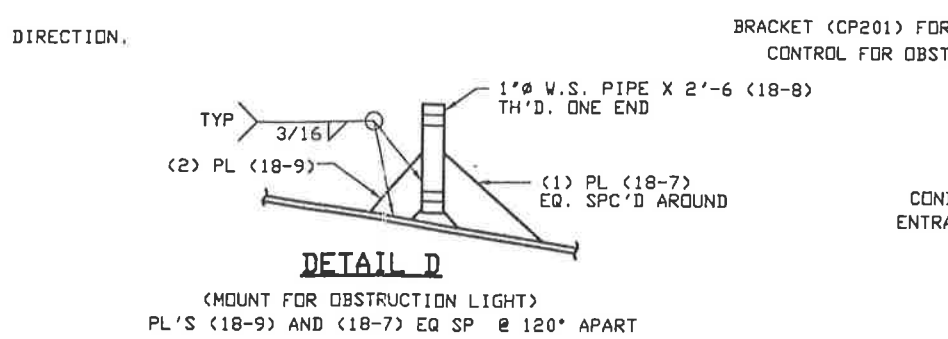


PITT-DES MOINES, INC. ENGINEERS - FABRICATORS - CONTRACTORS			
FORSYTH COUNTY (GILBERT ROAD TANK) 1000 M GAL HYDROPILLAR 74' DIA X 40' HR FORSYTH CO., GA			
DOOR ERECTION			
DWG. PREPARED AT	WRN	FABRICATED AT	CLV
BY	DATE	DATE	DATE
DRAWN: CDN	01 APR 96	DRAWING	EB
CHECKED: NPM	01 MAY 96	CONTRACT	56053

A	X
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Q	X
R	X
S	X
T	X
U	X
V	X
W	X
X	X
Y	X
Z	X



ELEVATION



PLAN VIEW

5 LIGHTS TYPE (A) SPACED AS SHOWN ON UNDERSIDE OF STIFFENER RINGS 1 & 6.

ELECTRICAL SUB TO VISIT JOB SITE BEFORE PDM FOREMAN LEAVES TO INSURE PROPER LOCATION OF ALL MOUNTING BRACKETS.

LIGHTING FIXTURE SCHEDULE
 TYPE (A) SURFACE MOUNTED FLOOD LIGHT. 120V OPERATION AND 150 W LAMP.
 TYPE (B) METAL HANDLE WALLPACK WITH 70 W METAL HALIDE LAMP. MOUNTED ON THE WALL 7 FT ABOVE FLOOR OR STIFFENERS 1-8. ALSO 3-REQ'D EQUALLY SPACED I.S. DRYWELL.
 TYPE (C) FAA APPROVED DUAL RED FLASHING OBSTRUCTION LIGHT, WITH PHOTOELECTRIC CONTROLLER AND FLASHER MOUNTED BELOW OBSTRUCTION LIGHT UNIT, 120 V OPERATION AND 116 W LAMP.

NOTES:
 FIELD TO INSURE THAT A BRACKET (CP201) IS LOCATED WHERE LIGHTS, SWITCHES & RECEPTACLES ARE SHOWN ON THIS DWG.
 SEE ENGINEER'S PLANS AND SPECIFICATIONS FOR COMPLETE DESCRIPTION OF ALL ELECTRICAL WORK AND EQUIPMENT.
 ALL MATERIAL AND LABOR FOR ELECTRICAL WORK BY PDM SUB-CONTRACTOR UNLESS NOTED

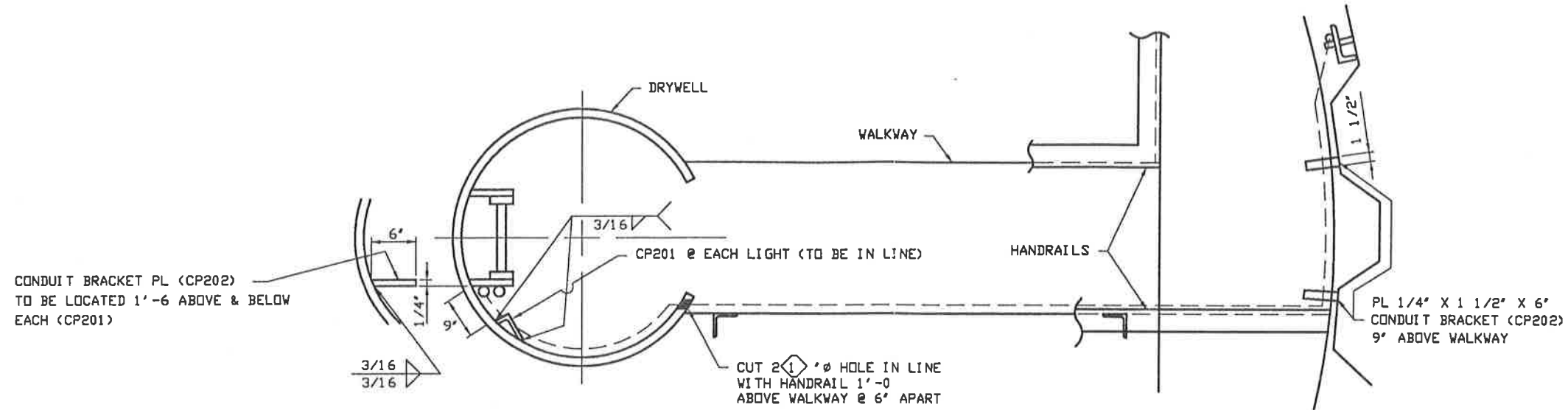
OPEN HOLES	N/A
ERECTION REF.	N/A
WELD SPECS.	AWWA D100-84
EIS	N/A
CERTIFIED FOR CONFORMANCE TO PLANS AND SPECIFICATIONS BY M. WADLE P.E.	
STATE	NO.
DATE	03 MAY 96

NO	REVISION DESCRIPTION	BY	DATE	CHK	DATE

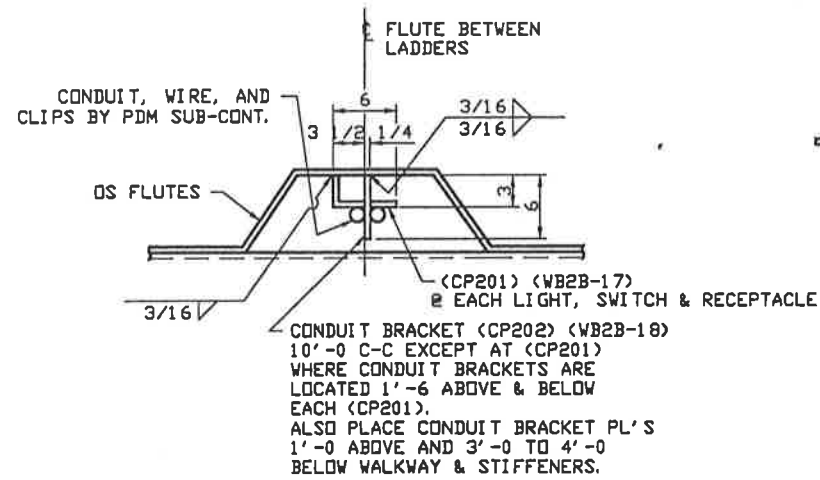


PIT-DES MOINES, INC. ENGINEERS - FABRICATORS - CONTRACTORS			
FORSYTH COUNTY (GILBERT ROAD TANK)			
1000 M GAL HYDROPILLAR 74' DIA X 40'HR			
FORSYTH CO., GA			
ELECTRICAL DIAGRAM			
OWG. PREPARED AT	WRN	FABRICATED AT	CLV
BY	DATE		
DRAWN: NPM	02MAY96	DRAWING	E10AB
CHECKED: KEN	03MAY96	CONTRACT	56053

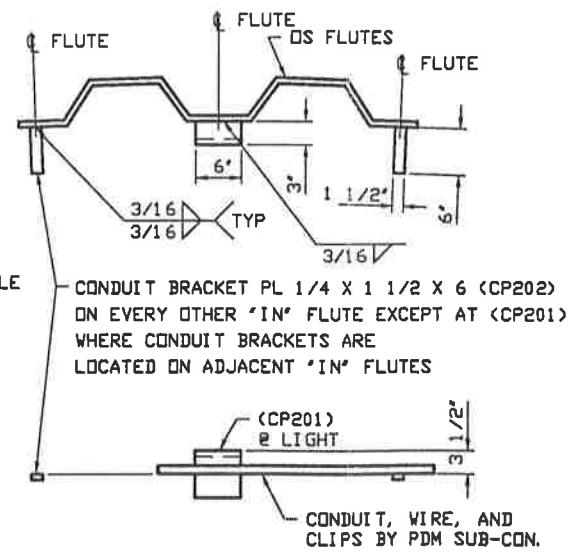
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PLAN VIEW AT WALKWAY



DETAIL B
(BY PDM)



TYPICAL HORIZONTAL CONDUIT RUN IN HYDRO-PILLAR (WHERE REQ'D.)

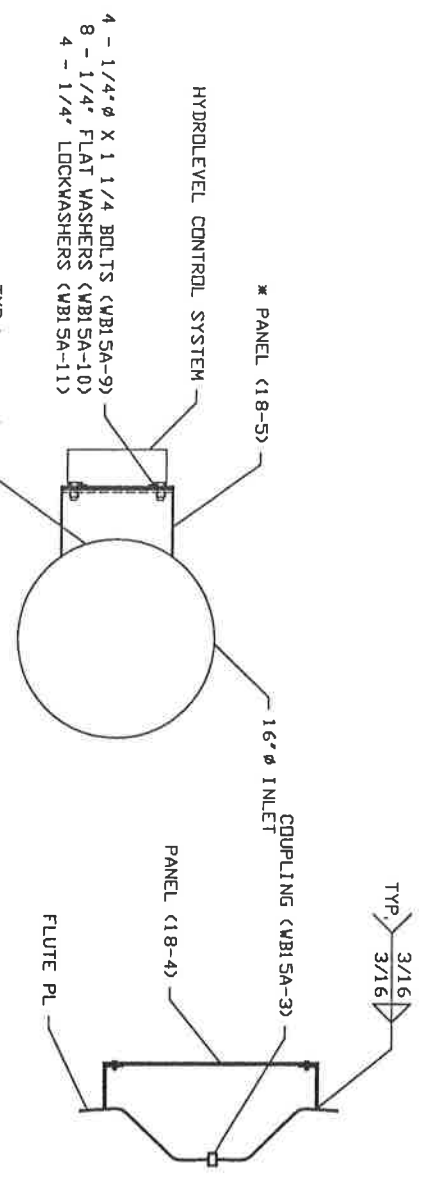
(TO BE IN LINE)
(BY PDM)

OPEN HOLES	AS NOTED
ERECTION REF.	N/A
WELD SPECS.	AWWA D100-84
EIS	N/A
CERTIFIED FOR CONFORMANCE TO PLANS AND SPECIFICATIONS	
BY	M. WADLE P.E.
STATE	NO.
DATE	03MAY96

NO	REVISION DESCRIPTION	BY	DATE	CHK	DATE

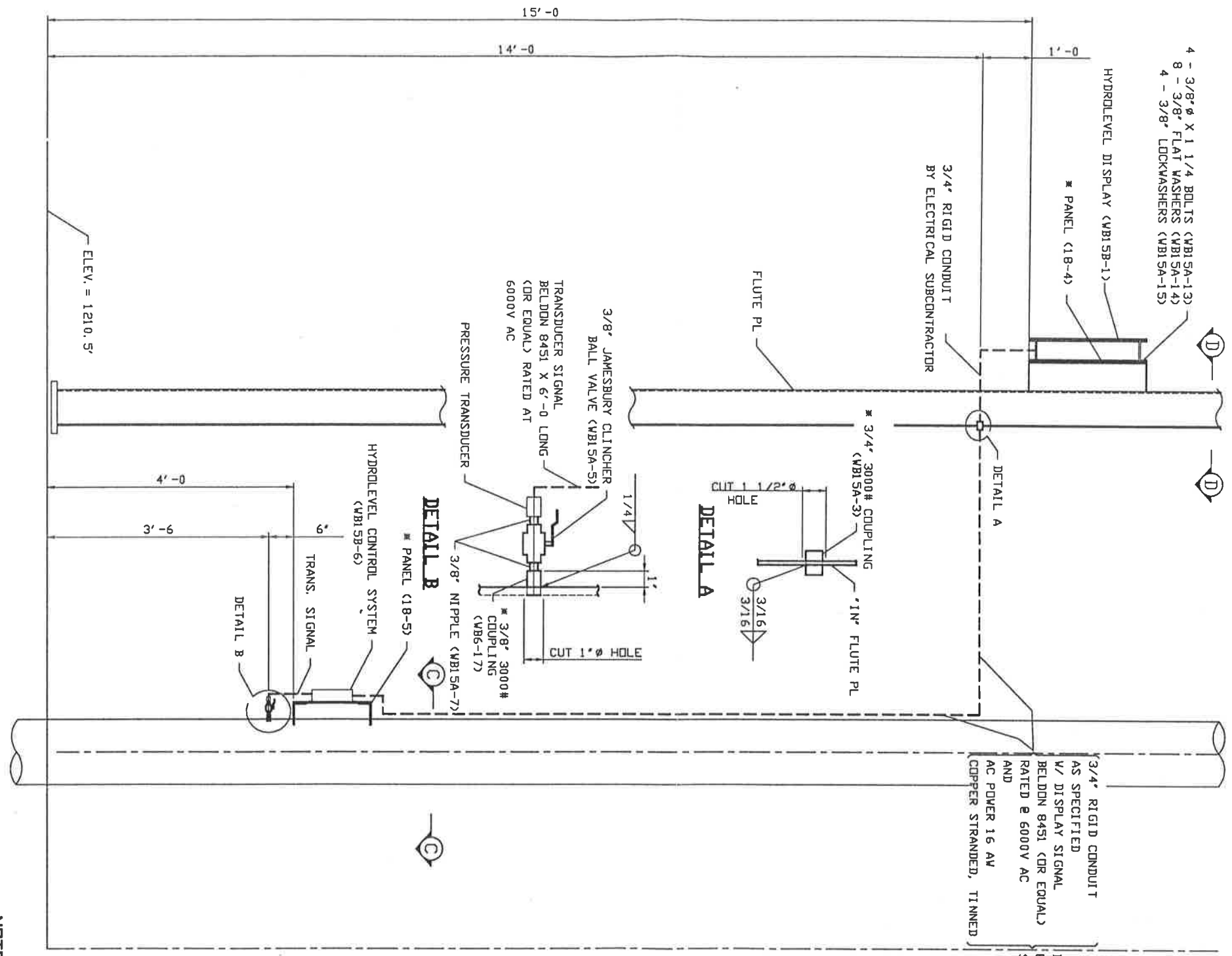


PITT-DES MOINES, INC. ENGINEERS - FABRICATORS - CONTRACTORS			
FORSYTH COUNTY (GILBERT ROAD TANK)			
1000 M GAL HYDRO-PILLAR 74' DIA X 40' HR			
FORSYTH CO., GA			
ELECTRICAL DIAGRAM			
DWG. PREPARED AT	WRN	FABRICATED AT	CLV
BY	DATE	DATE	DATE
DRAWN: NPM	02MAY96	DRAWING	E10B
CHECKED: KEN	03MAY96	CONTRACT	56053



SECTION C-C

SECTION D-D



ELEVATION

NOTE:
MATERIAL ON THIS DRAWING IS FURNISHED BY PDM AND INSTALLED BY ELECTRICAL SUBCONTRACTOR UNLESS NOTED. MATERIAL NOTED * IS FURNISHED AND INSTALLED BY PDM.

NOTE:
FOR THE HYDROLEVEL™ TO HAVE PROPER LIGHTNING PROTECTION, THE TANK MUST BE GROUNDED TO A SUITABLE EARTH GROUND, HAVING NO GREATER THAN 5 OHMS OF RESISTANCE WHEN MEASURED BY A CALIBRATED EARTH RESISTANCE TESTER.

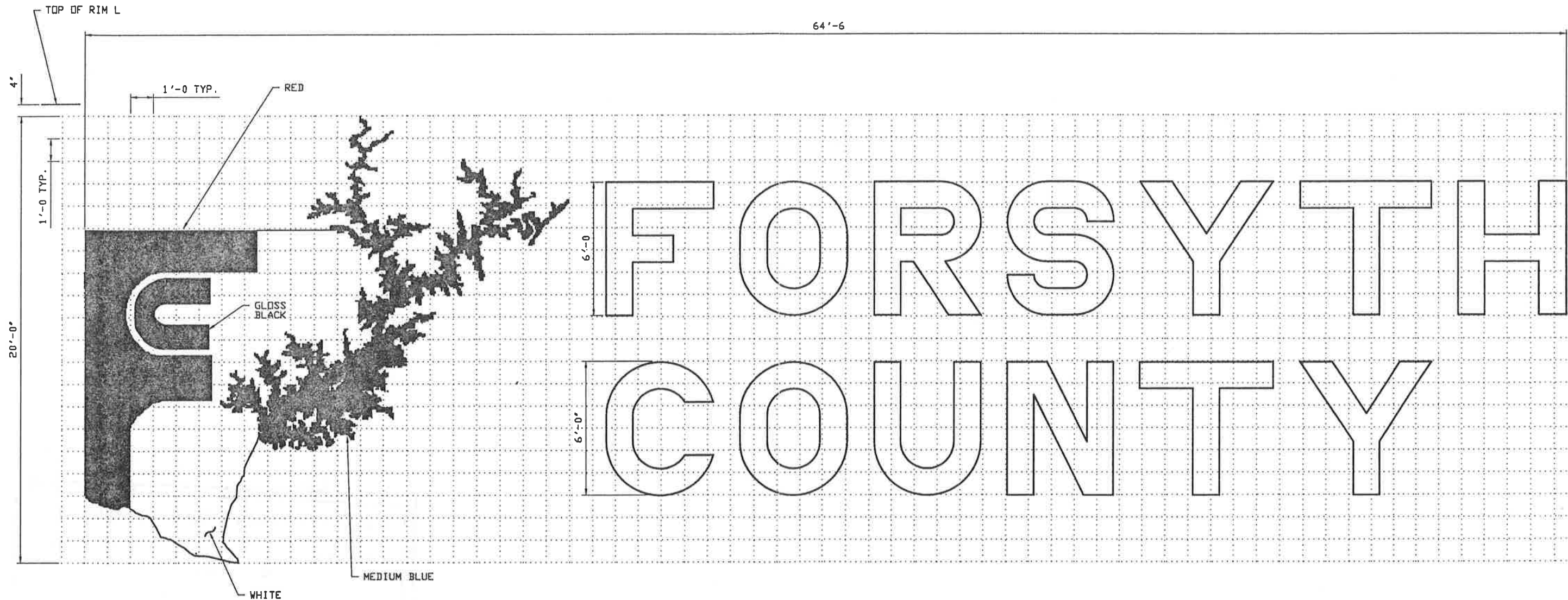
OPEN HOLES AS NOTED	
ERECTION REF. E4	
WELD SPECS. AWWA D100-84	
EIS- N/A	
CERTIFIED FOR CONFORMANCE TO PLANS AND SPECIFICATIONS BY M. WADLE	
DATE 03MAY96	

NO	REVISION DESCRIPTION	BY	DATE	CHK	DATE



PITT-DES MOINES, INC. ENGINEERS - FABRICATORS - CONTRACTORS			
FORSYTH COUNTY (GILBERT ROAD TANK)			
1000 M GAL HYDROPILLAR 74' DIA X 40' HR			
FORSYTH CO., GA			
LEVEL INDICATOR ELEVATION			
DWG. PREPARED AT	WRN	FABRICATED AT	CLV
BY	DATE	BY	DATE
DRAWN: KEN	02MAY96	DRAWING	E11
CHECKED: NPM	03MAY96	CONTRACT	56053

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LOGO AND NAME SIGN FOR GILBERT ROAD TANK

PAINTER TO CONTACT CUSTOMER FOR ORIENTATION

OPEN HOLES	N/A
ERECTION REF.	N/A
WELD SPECS.	AWWA D100-84
EIS	N/A
CERTIFIED FOR CONFORMANCE TO PLANS AND SPECIFICATIONS	
BY	M. WADLE P.E.
STATE	NO.
DATE	03MAY96

NO	REVISION DESCRIPTION	BY	DATE	CHK	DATE



PITT-DES MOINES, INC. ENGINEERS - FABRICATORS - CONTRACTORS			
FORSYTH COUNTY (GILBERT ROAD TANK)			
1000 M GAL HYDROPILLAR 74' DIA X 40' HR			
FORSYTH CO., GA			
TANK LOGO			
OWG. PREPARED AT	WRN	FABRICATED AT	CLV
BY	DATE	DRAWING	P2
DRAWN: KEN	30APR96	CHECKED: NPM	03MAY96
CONTRACT		56053	