

BIRKHOFF, HENDRICKS AND CONWAY, L.L.P.
CONSULTING ENGINEERS
DALLAS, TEXAS

Date: 18-Nov-02

Job Code: 2001180

City of Rockwall
 385 S. Goliad
 Rockwall Texas 75087

Attention: Mr. Chuck Todd, P.E.

Re: City of Rockwall, Texas
 Springer Road Elevated Storage Tank

We are transmitting herewith two copies of the submittal data furnished by CB&I Water
 These copies have been reviewed and marked as follows:

| No. Sheets | Dwg. Description | Explanation | | | | |
|------------|-------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | | No Exceptions Taken | Rejected | Make Corrections Noted | Revise and Resubmit | Submit Specified Items |
| T1-1 | Tower Orientation | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| T1-2 | Tower Orientation | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| T1-3 | Floor Embeds | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| T1-4 | Dome Form Support Orientation | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| T2-1 | Wall Details | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| T2-2 | Wall Details Mandoor | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| T2-3 | Wall Details Overhead Door | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| T2-4 | Wall Details | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| T2-5 | Wall Reinforcing Details | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| T3-1 | Ringbeam Details | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| T4-1 | Dome Details | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| T4-2 | Dome Details | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| T4-3 | Dome Reinforcing Details | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| T6-1 | Elevator Shaft | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| T6-2 | Elevator Door Openings | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| T6-3 | Elevator Shaft Reinforcing | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

K

Remarks:

By copy of this letter we are returning _____ copies of the submittal to _____

By: 
 Paul A. Carline, P.E.

Checking of shop drawings by Birkhoff, Hendricks and Conway, L.L.P. is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements of the plans and specifications. Contractor responsible for: dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction, coordination of work with that of all other trades; and performing his work in a safe and satisfactory manner.

CB&I Water

a division of CB&I Constructors, Inc.

9550 Hickman Road * Clive, IA 50325-5316 * (515)254-9228

DATE: November 13, 2002

TO: Birkhoff, Hendricks & Conway
7502 Greenville Ave, Suite 220
Dallas, TX 75231

ATTN: Paul Carline

DESCRIPTION: 2000 MG CET 97' DIA X 40'HR X 52' TWR

LOCATION: ROCKWALL, TX

CB&I CONTRACT: 137719

TRANSMITTAL: 6A

Enclosed are: Drawings For Record

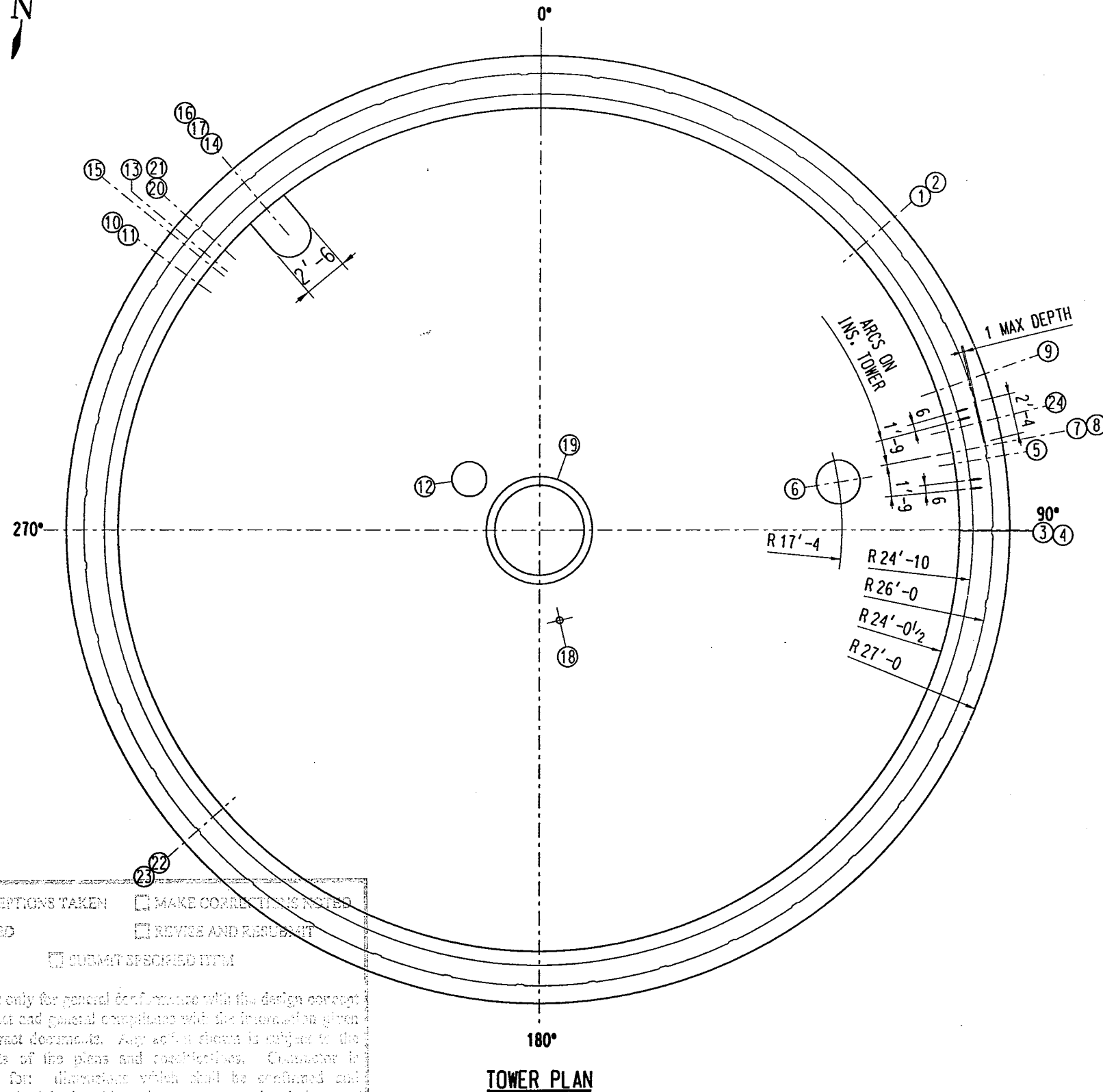
| Drawing # | Revision | Description | Copies |
|-----------|----------|--------------------------------|--------|
| T1-1 | 0 | TOWER ORIENTATION | 4 |
| T1-2 | 0 | TOWER ORIENTATION | 4 |
| T1-3 | 0 | DOMES FORM SUPPORT ORIENTATION | 4 |
| T1-4 | 0 | FLOOR EMBEDS | 4 |
| T2-1 | 0 | WALL DETAILS | 4 |
| T2-2 | 0 | WALL DETAILS MANDOR | 4 |
| T2-3 | 0 | WALL DETAILS OHEAD DOOR | 4 |
| T2-4 | 0 | WALL DETAILS | 4 |
| T2-5 | 0 | WALL REINFORCING DETAILS | 4 |
| T3-1 | 0 | RINGBEAM DETAILS | 4 |
| T4-1 | 0 | DOMES DETAILS | 4 |
| T4-2 | 0 | DOMES DETAILS | 4 |
| T4-3 | 0 | DOMES REINFORCING DETAILS | 4 |
| T6-1 | 0 | ELEVATOR SHAFT | 4 |
| T6-2 | 0 | ELEVATOR DOOR OPENINGS | 4 |
| T6-3 | 0 | ELEVATOR SHAFT REINFORCING | 4 |

Remarks :
1. Drawings have been PE sealed.
2. T5 intentionally omitted.

Copies: D. SELLERS -CNR
J. MCCOMBS
G. SCHRODER

BY Jim McCombs
Email: JMcCombs@chicagobridge.com

5.0000"



TOWER PLAN

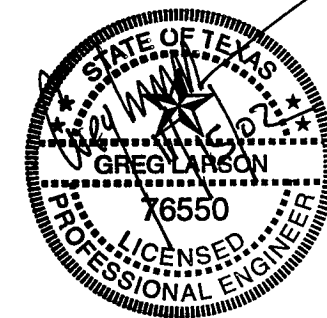
NO EXCEPTIONS TAKEN MAKE CORRECTIONS NOTED
 REJECTED REVISE AND RESUBMIT
 SUBMIT DESCRIBED ITEM

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any work shown is subject to the requirements of the plans and specifications. Contractor is responsible for dimensions which shall be confirmed and checked at the job site. Contractor shall be responsible for coordination of his work with that of all other trades and performing his work in a safe and satisfactory manner.

DIRKHOFF, HENDRICKS & CONWAY, L.L.P.
 CONSULTING ENGINEERS, DALLAS, TEXAS

Date: 11/18/02 By: PAC

| ITEM | DESCRIPTION | DEGREES | ELEV. | CHORDS FROM | | DWG. REF. |
|------|--|-------------------------|-------------------|---------------------------------|-------------|-----------|
| | | AZUMUTH FROM PLAN NORTH | FROM TOP OF FNDN. | QUADRANTS ON INSIDE WALL RADIUS | | |
| | | | | LEADING | TRAILING | |
| 1 | 12'-0 X 12'-0 OVERHEAD DOOR | 48.592 | 0.000' | 20'-5 1/4 | 17'-6 11/16 | T2,E8 |
| 2 | 1" DIA SCH 40 PVC PIPE FOR OVERHEAD DOOR LIGHT | 48.592 | 15.000' | 20'-5 1/4 | 17'-6 11/16 | E9 |
| 3 | 3'-0 X 7'-0 MANDOOK | 90.131 | 0.000' | 0'- 11/16 | 35'-0 15/16 | T2,E8 |
| 4 | 1" DIA SCH 40 PVC PIPE FOR MANDOOK LIGHT | 90.131 | 10.000' | 0'- 11/16 | 35'-0 15/16 | E9 |
| 5 | 2'-0 X 3'-0 PAINTERS MANHOLE EMBEDMENT | 80.900 | PER DETAIL | 32'-2 11/16 | 3'-11 1/4 | T2,E6 |
| 6 | 2'-6 DIA BOTTOM MANHOLE EMBEDMENT | 80.900 | DOME | 32'-2 11/16 | 3'-11 1/4 | T4,E6 |
| 7 | CL 4 - 3/4" DIA ANCHOR BOLTS FOR WALKWAY | 79.362 | 127.406' | 31'-8 9/16 | 4'-7 1/4 | E5,E6 |
| 8 | CL LADDERS & MID PLATFORMS | 79.362 | --- | 31'-8 9/16 | 4'-7 1/4 | E5 |
| 9 | CL LADDERS & MID PLATFORMS | 70.710 | --- | 28'-8 7/8 | 8'-3 7/8 | E5 |
| 10 | CL BRACKETS FOR 18" DIA OVERFLOW PIPE | 305.758 | --- | 15'-3 | 22'-7 11/16 | E7 |
| 11 | 2'-0 DIA OVERFLOW TOWER BLOCKOUT | 305.758 | 2.000' | 15'-3 | 22'-7 11/16 | T2 |
| 12 | 2'-0 DIA OVERFLOW TANK BTM BLOCKOUT | 305.758 | DOME | 15'-3 | 22'-7 11/16 | T4,E7 |
| 13 | 3" BOTTOM DRAIN | 309.650 | RINGBEAM | 16'-10 1/8 | 21'-1 1/2 | T3 |
| 14 | CL BRACKETS FOR 24" DIA INLET PIPE | 319.601 | --- | 20'-10 | 17'-1 13/16 | E7 |
| 15 | 6" DIA SCH 40 PVC PIPE FOR SUMP PUMP OUTLET BLOCKOUT | 308.841 | 0.500' | 16'-6 3/16 | 21'-5 5/16 | E9 |
| 16 | 2'-6 X 3'-9 INLET TANK BTM BLOCKOUT | 319.601 | DOME | 20'-10 | 17'-1 13/16 | T4,E7 |
| 17 | 3" DIA SCH 40 PVC PIPE FOR CHLORINE ANALYZER DRAIN | 319.601 | 0.500' | 20'-10 | 17'-1 13/16 | E9 |
| 18 | 4" DIA SCH 40 PVC PIPE FOR SLEWLINE BLOCKOUT | FIELD LOCATE | DOME | --- | --- | T5 |
| 19 | DRYWELL EMBEDMENT | --- | DOME | --- | --- | T5 |
| 20 | 2'-0 X 3'-0 LOUVER EMBEDMENT | 311.670 | PER DETAIL | 17'-8 | 20'-4 | T2,E6 |
| 21 | 2'-0 X 3'-0 LOUVER EMBEDMENT | 311.670 | PER DETAIL | 17'-8 | 20'-4 | T2,E6 |
| 22 | 12'-0 X 12'-0 OVERHEAD DOOR | 228.592 | 0.000' | 20'-5 1/4 | 17'-6 11/16 | T2,E8 |
| 23 | 1" DIA SCH 40 PVC PIPE FOR OVERHEAD DOOR LIGHT | 228.592 | 15.000' | 20'-5 1/4 | 17'-6 11/16 | E9 |
| 24 | CL 2'-4 WIDE X 3'-0 HIGH FLAT AREA FOR PLAQUE MOUNTING | 76.285 | 5.000' | 30'-8 1/8 | 5'-11 3/16 | E8 |



BY: *Greg A. Larson* DATE: 10/25/02
 CERTIFIED FOR CONFORMANCE TO PLANS & SPECIFICATIONS

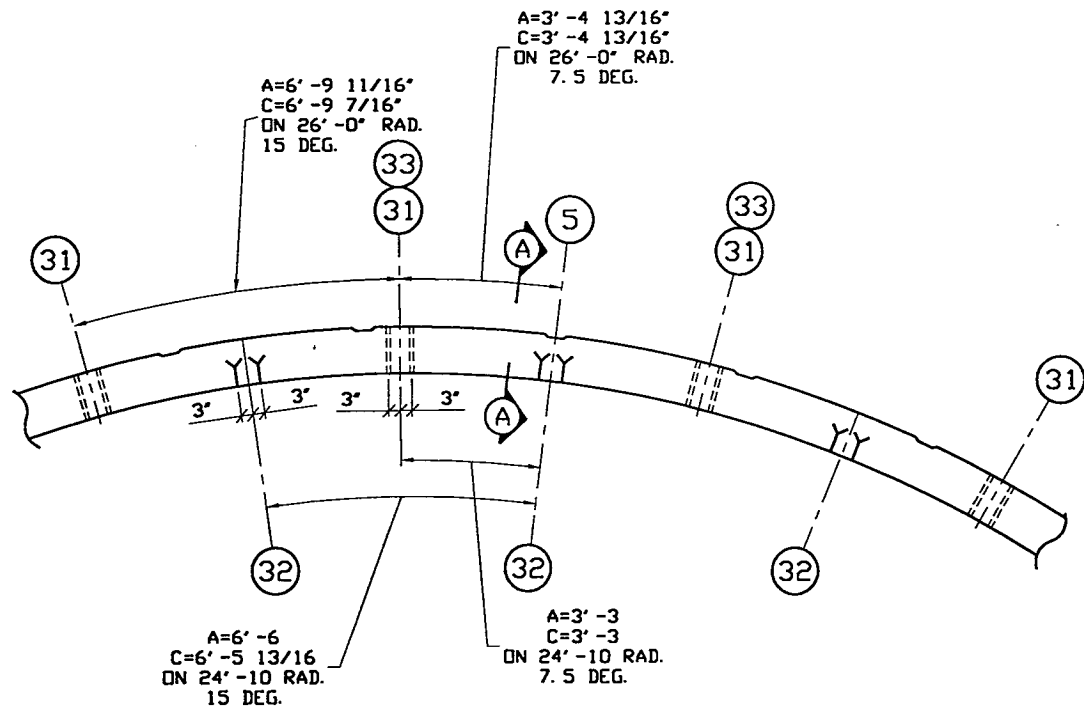
CBI
 ORIENTATION
 SPRINGER ROAD 2.0 MG ELEVATED STORAGE TANK
 2000 MG CET 97' DIA X 40' HR X 52' TWR
 ROCKWALL, TX

CUSTOMER'S NO: _____ CONTRACT NO: 137719
 BY: CDS CHKD: JRM DATE: 21OCT02
 GREG SCHROEDER - CLIVE
 ENGINEERING ASSIGNED

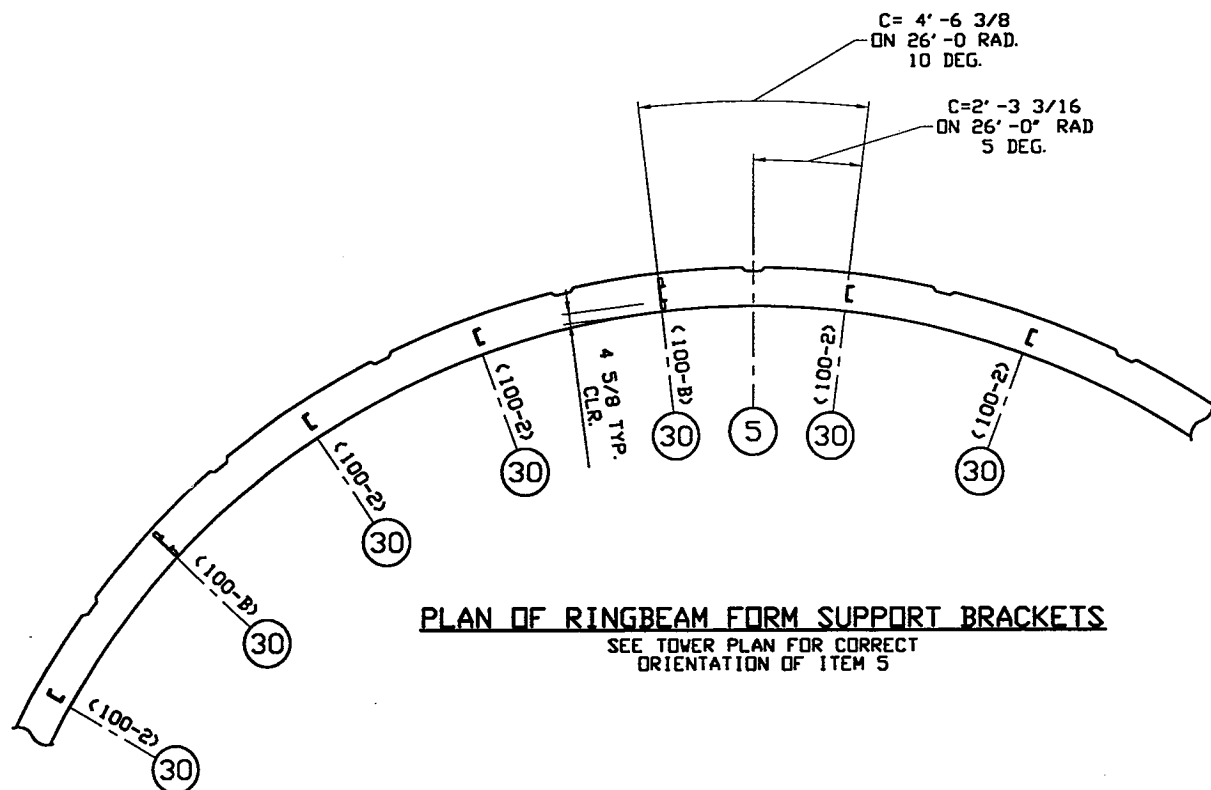
DWG: T1 REV: 0
 SH: 1

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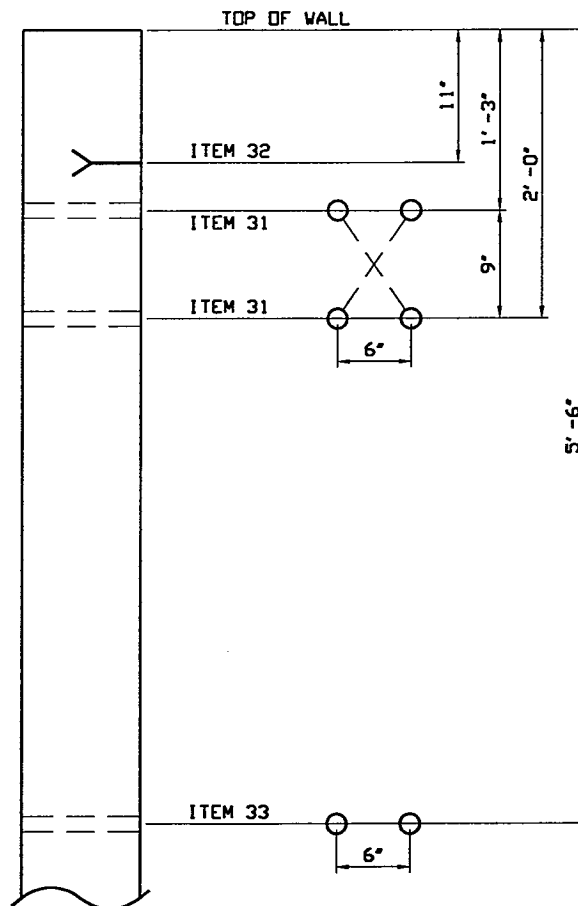
INDICATES CHANGE FROM PREVIOUS ISSUE



PLAN OF PVC PIPES & ANCHOR BOLTS
 (PAINTERS RAIL ATTACHMENT)
 SEE TOWER PLAN FOR CORRECT
 ORIENTATION OF ITEM 5



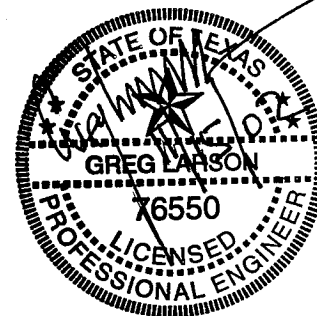
PLAN OF RINGBEAM FORM SUPPORT BRACKETS
 SEE TOWER PLAN FOR CORRECT
 ORIENTATION OF ITEM 5



SECTION A-A

| ITEM | DESCRIPTION | AZUMUTH FROM PLAN NORTH | ELEVATION FROM TOP OF FOUNDATION | DWG. REF. |
|------|---|-------------------------|----------------------------------|------------|
| 30 | 36 - C4 X 5.4 BRACKETS AT 36 EQUALLY SPACED LOCATIONS 24 - (100-1) 12 - (100-B) W/1" BLANK NUTS EVERY 3RD SPACE FOR CABLE TIE-OFF | ORIENTED AS SHOWN | TOP OF WALL | T2 |
| 31 | CL 4 - 1 1/4" DIA. SCH. 40 PVC PIPES AT 24 EQUALLY SPACED LOCATIONS FOR DOME SUPPORTS | ORIENTED AS SHOWN | PER DETAIL | T5 |
| 32 | CL 2 - 3/4" DIA. ANCHOR BOLTS AT 24 EQUALLY SPACED LOCATIONS FOR PAINTERS ANGLE | ORIENTED AS SHOWN | PER DETAIL | E3 |
| 33 | CL 2 - 1 1/4" DIA. SCH. 40 PVC PIPES AT 2 EQUAL SPACES EITHER SIDE OF PAINTERS MANHOLE | ORIENTED AS SHOWN | PER DETAIL | T5 |
| | ATTACH INSPECTION RAIL BRACKETS (204-1) NEAR TOP OF TOWER WALL | | | E3 |
| | ATTACH OVERHEAD DOOR FRAME STEEL ATTACH NAME PL (103-A) | | | E8 E8 |
| | ANCHOR STAIR TO FLOOR ANCHOR STAIR SUPPORTS TO TOWER WALL | | | E10 E10 |
| | ATTACH SECOND FLOOR HANDRAILING TO STAIR AND OPENINGS | | | E11 |
| | ATTACH THIRD FLOOR HANDRAILING TO STAIR AND OPENINGS | | | E11 |
| | ATTACH FLOOR BEAM BRACKETS TO TOWER WALL AT STAIR OPENINGS | | | E11 |
| | ATTACH CURB ANGLES TO TOWER WALL | | | E11 |
| | ATTACH PLAQUE TO TOWER WALL | | | E8 |
| | ATTACH 3 LOUVER FRAMES (206-1) TO BLOCKOUTS. | | | E6 |

T1.2 ORIENTATION 97 40 52 25.JUN02

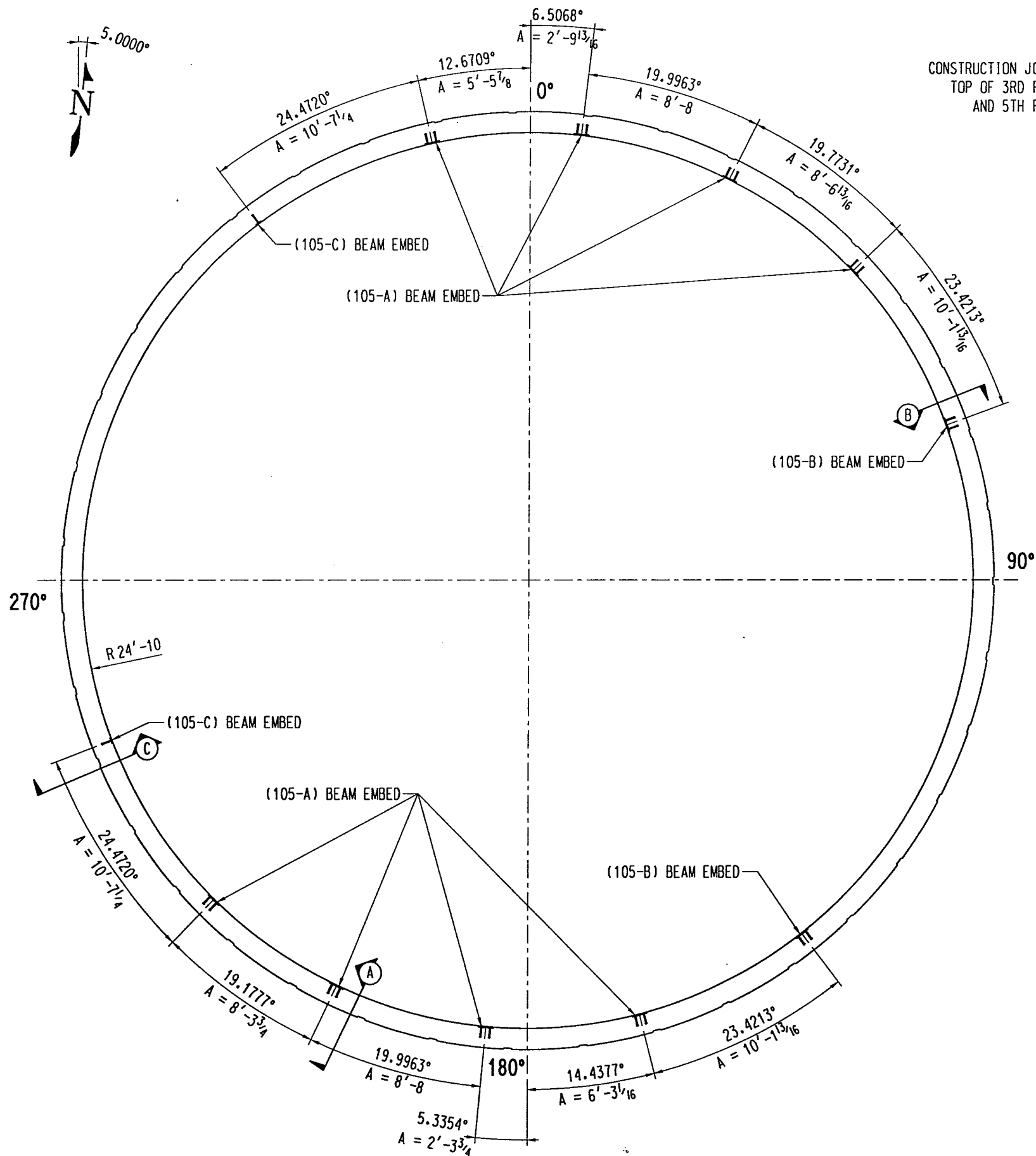


FABRICATED AT CLIVE
 ERECTION REF. N/A
 WELD SPECS. AWWA D100-96

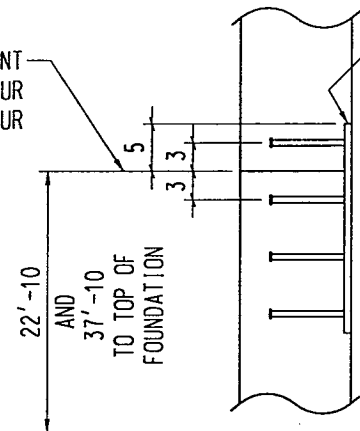
CERTIFIED FOR CONFORMANCE
 TO PLANS AND SPECIFICATIONS

BY: *Greg A. Larson*
 DATE: 10/25/02

| | | | |
|---|--|--|--|
| | | SUPPLIER'S / PURCHASER'S NO. | |
| ORIENTATION SPRINGER ROAD 2.0 MG ELEVATED STORAGE TANK 2000 MG CET 97' DIA X 40' HR X 52' TWR ROCKWALL, TX | | | |
| CUSTOMER'S NO. BY CDS CHKD JRM DATE 22OCT02 GREG SCHRODER ENGINEERING ASSIGNED | | CONTRACT NO. 137719 DWG T1 SHT 2 | |
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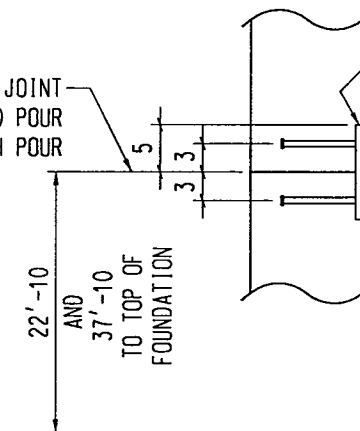


CONSTRUCTION JOINT
TOP OF 3RD POUR
AND 5TH POUR



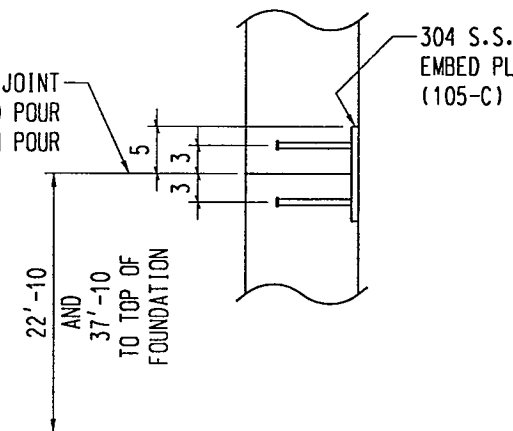
SECTION A-A

CONSTRUCTION JOINT
TOP OF 3RD POUR
AND 5TH POUR



SECTION B-B

CONSTRUCTION JOINT
TOP OF 3RD POUR
AND 5TH POUR



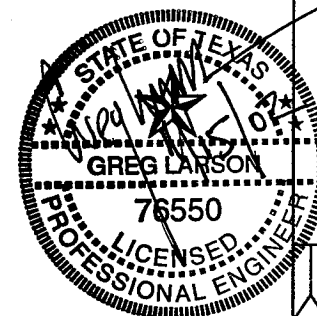
SECTION C-C

FLOOR EMBEDMENTS

ARCS MEASURED ON INSIDE OF TOWER
(R = 24'-10) UNLESS NOTED

INDICATES CHANGE FROM PREVIOUS ISSUE

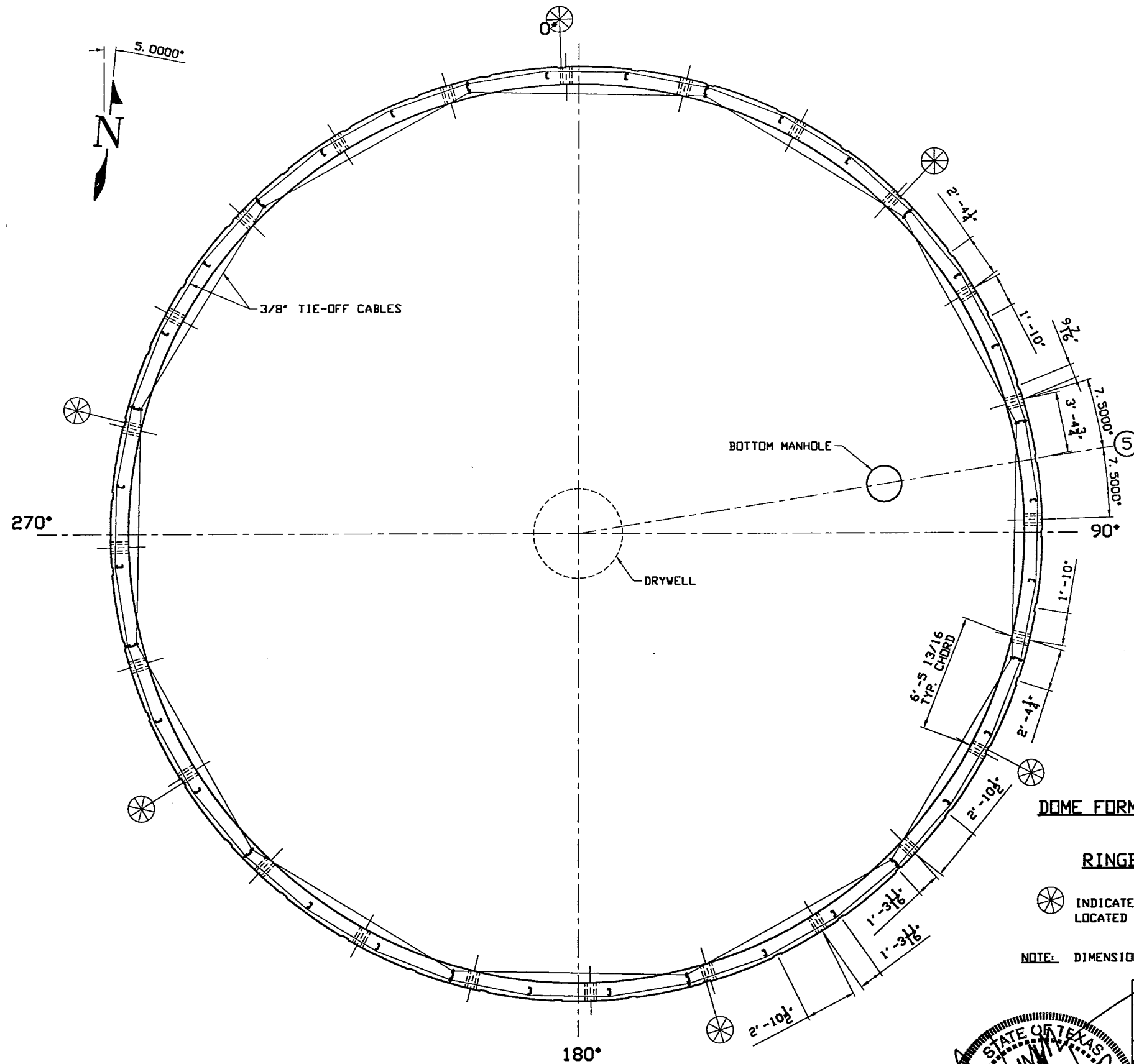
BY: *Greg A. Schrodter* DATE: 10/25/02
CERTIFIED FOR CONFORMANCE TO PLANS & SPECIFICATIONS



| | | | |
|-----------|------|--|-------------|
| REVISIONS | | REMARKS | |
| BY | DATE | CBI | |
| BY | DATE | SECOND AND THIRD FLOOR EMBEDS | |
| BY | DATE | SPRINGER ROAD 2.0 MG ELEVATED STORAGE TANK | |
| BY | DATE | 2000 MG CET 97' DIA X 40' HR X 52' TWR | |
| BY | DATE | ROCKWALL, TX | |
| BY | DATE | CUSTOMER'S NO | CONTRACT NO |
| BY | DATE | BY CDS CHKD JRM DATE 22OCT02 | 137719 |
| BY | DATE | GREG SCHRODTER - CLIVE | DWG T1 |
| BY | DATE | ENGINEERING ASSIGNED | SHT 3 |
| BY | DATE | | REV 0 |

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T1-3 SUPPORT SLEEVE 97 40 52 30MAY02

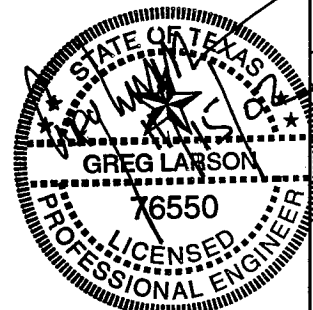


**DOME FORM SUPPORT SLEEVE ORIENTATION
(ITEM 31)**

**RINGBEAM SUPPORT ORIENTATION
(ITEM 30)**


⊗ INDICATES PVC SLEEVES THAT ARE
LOCATED IN THE CENTER OF A RUSTICATION

NOTE: DIMENSIONS GIVEN REPEAT 3 TIMES TO COMPLETE CIRCLE.

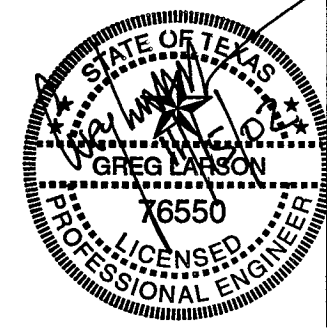
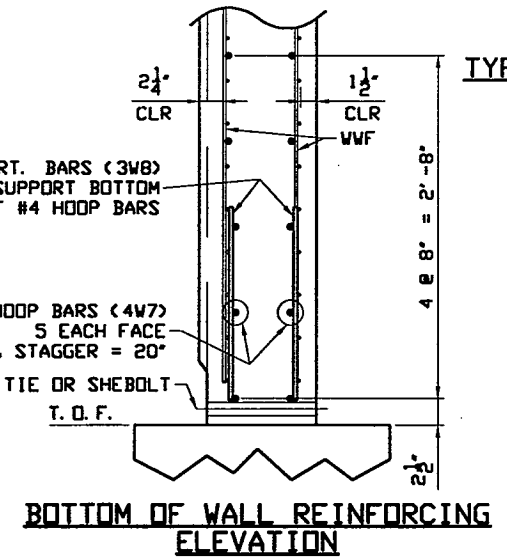
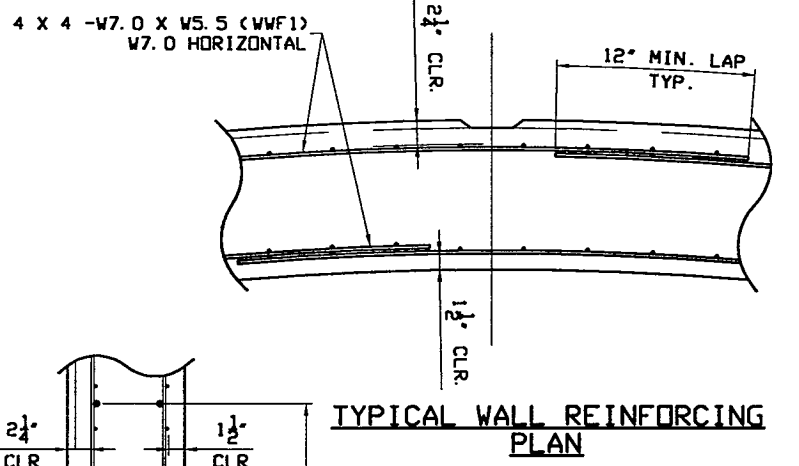
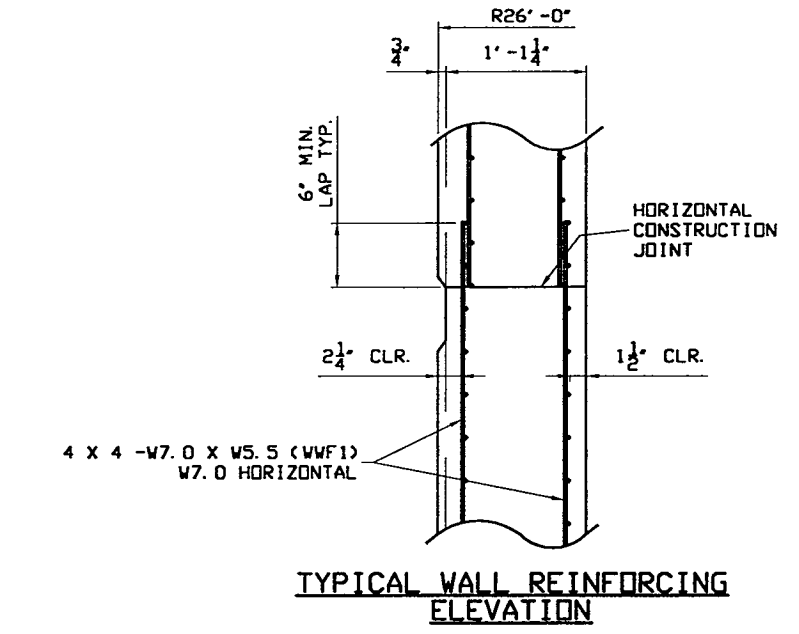
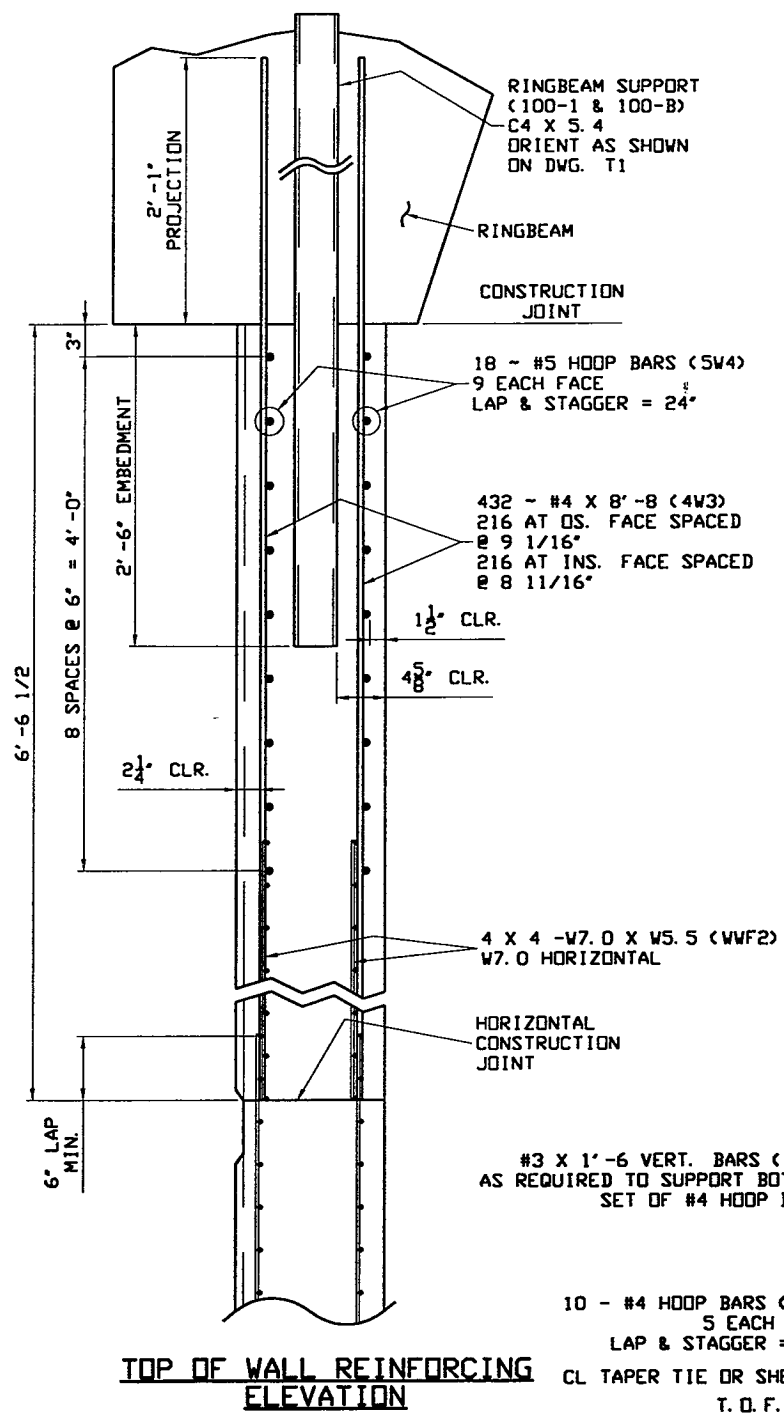
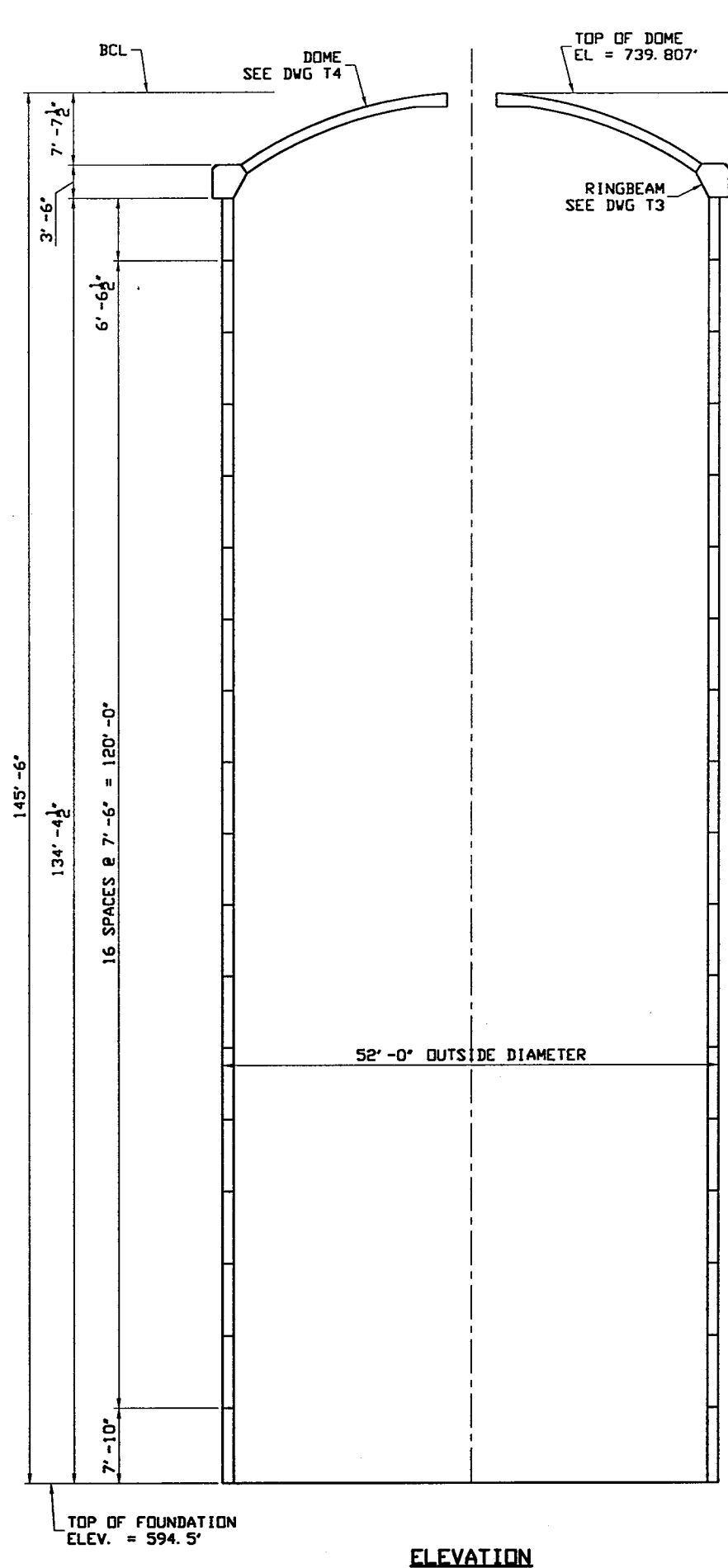


FABRICATED AT **CLIVE**
ERECTION REF. **N/A**
WELD SPECS. **AWWA D100-96**

| BY | CHKD | DATE | BY | CHKD | DATE | BY | CHKD | DATE |
|----|------|------|----|------|------|----|------|------|
| | | | | | | | | |

| | | | |
|---|--|---|----|
|  | | SUPPLIER'S / PURCHASER'S NO. | |
| | | SUPPORT SLEEVE ORIENTATION SPRINGER ROAD 2.0 MG ELEVATED STORAGE TANK 2000 MG CET 97' DIA X 40' HR X 52' TWR ROCKWALL, TX | |
| CUSTOMER'S NO. | | CONTRACT NO. | |
| BY CDS CHKD JRM DATE 22OCT02 | | 137719 | |
| GREG SCHRODER | | DWG | T1 |
| ENGINEERING ASSIGNED | | SHT | 4 |
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T2.1 WALL DETAILS 97 40 52 25JUN02



FABRICATED AT CLIVE
 ERECTION REF. N/A
 WELD SPECS. AWWA D100-96

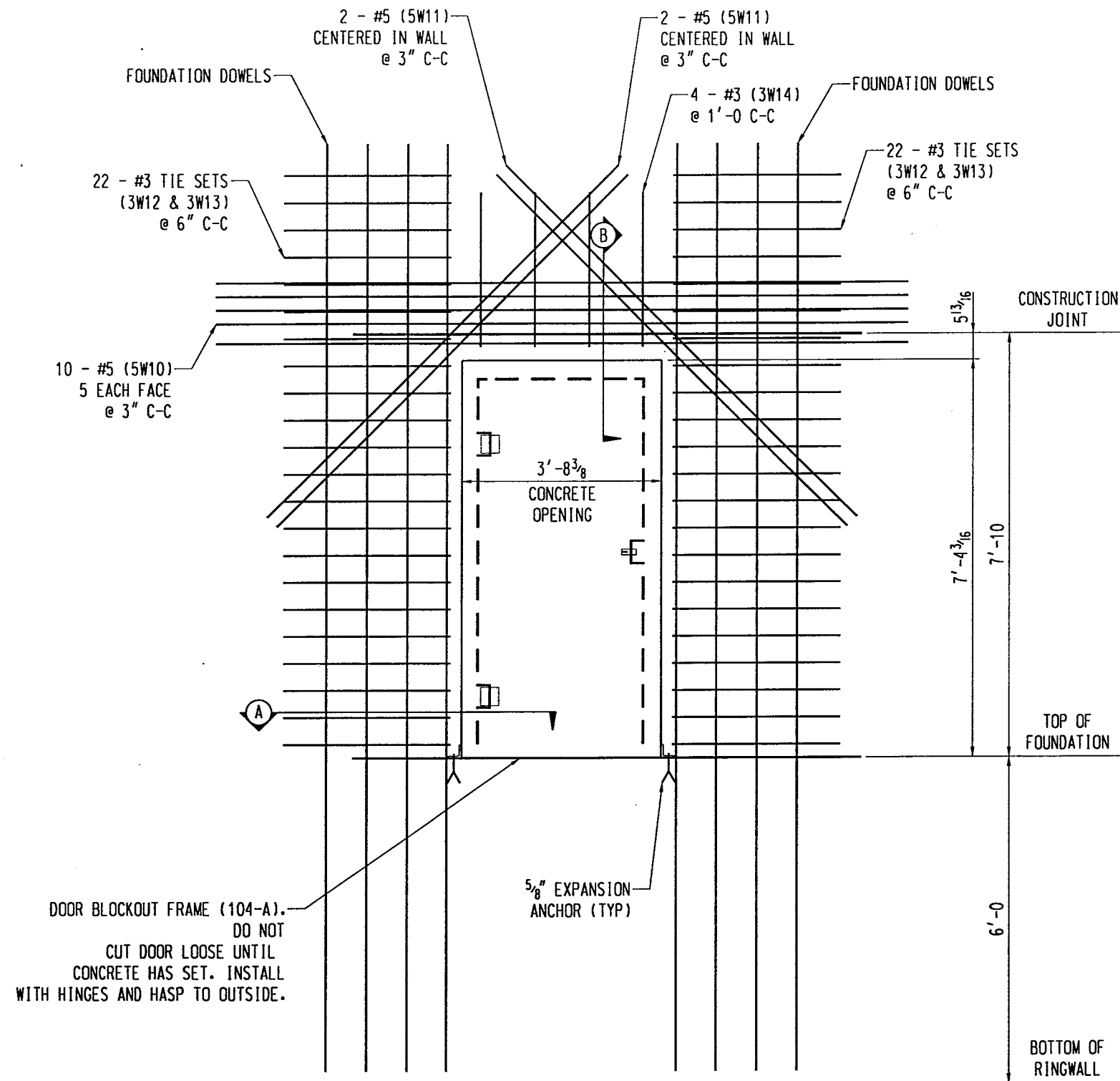
CERTIFIED FOR CONFORMANCE TO PLANS AND SPECIFICATIONS
 BY: Greg A. Nelson
 DATE: 10/25/02

| BY | CHKD | DATE | BY | CHKD | DATE | BY | CHKD | DATE |
|----|------|------|----|------|------|----|------|------|
| | | | | | | | | |

| | | | |
|---|--|-------------------------------|-----|
| | | SUPPLIER'S / PURCHASER'S NO. | |
| | | | |
| WALL DETAILS SPRINGER ROAD 2.0 MG ELEVATED STORAGE TANK 2000 MG CET 97' DIA X 40' HR X 52' TWR ROCKWALL, TX | | | |
| CUSTOMER'S NO. BY <u>CDS</u> CHKD <u>JRM</u> DATE <u>22OCT02</u> | | CONTRACT NO. 137719 | |
| ENGINEERING ASSIGNED GREG SCHRÖDER | | DWG | REV |
| | | T2 | |
| | | SHT | 1 |

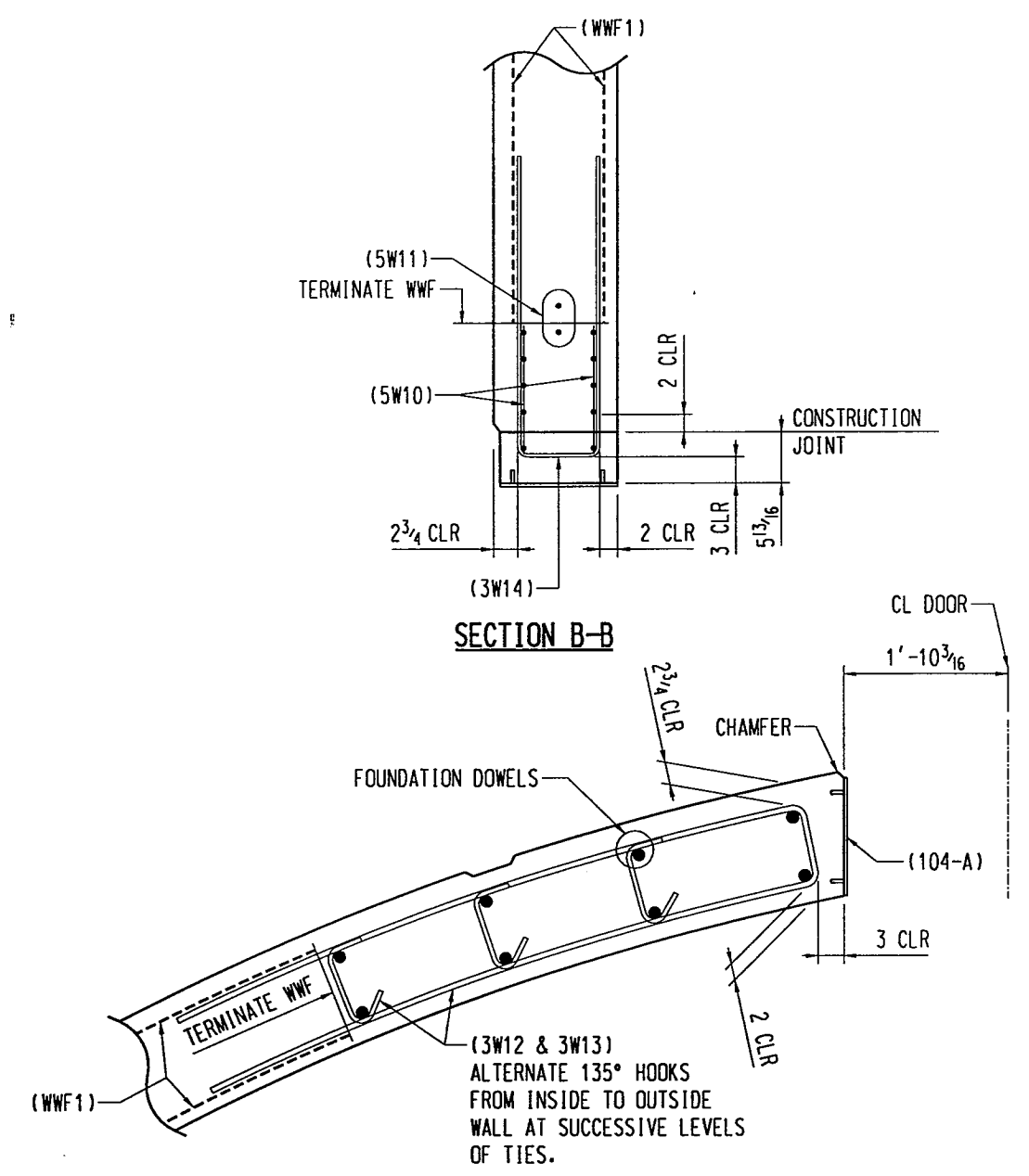
REVISIONS

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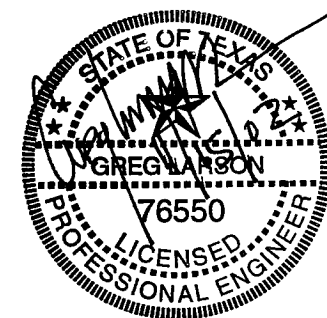
DOOR BLOCKOUT FRAME (104-A).
DO NOT
CUT DOOR LOOSE UNTIL
CONCRETE HAS SET. INSTALL
WITH HINGES AND HASP TO OUTSIDE.

3'-0 X 7'-0 MANDOOR
INSIDE FACE SHOWN



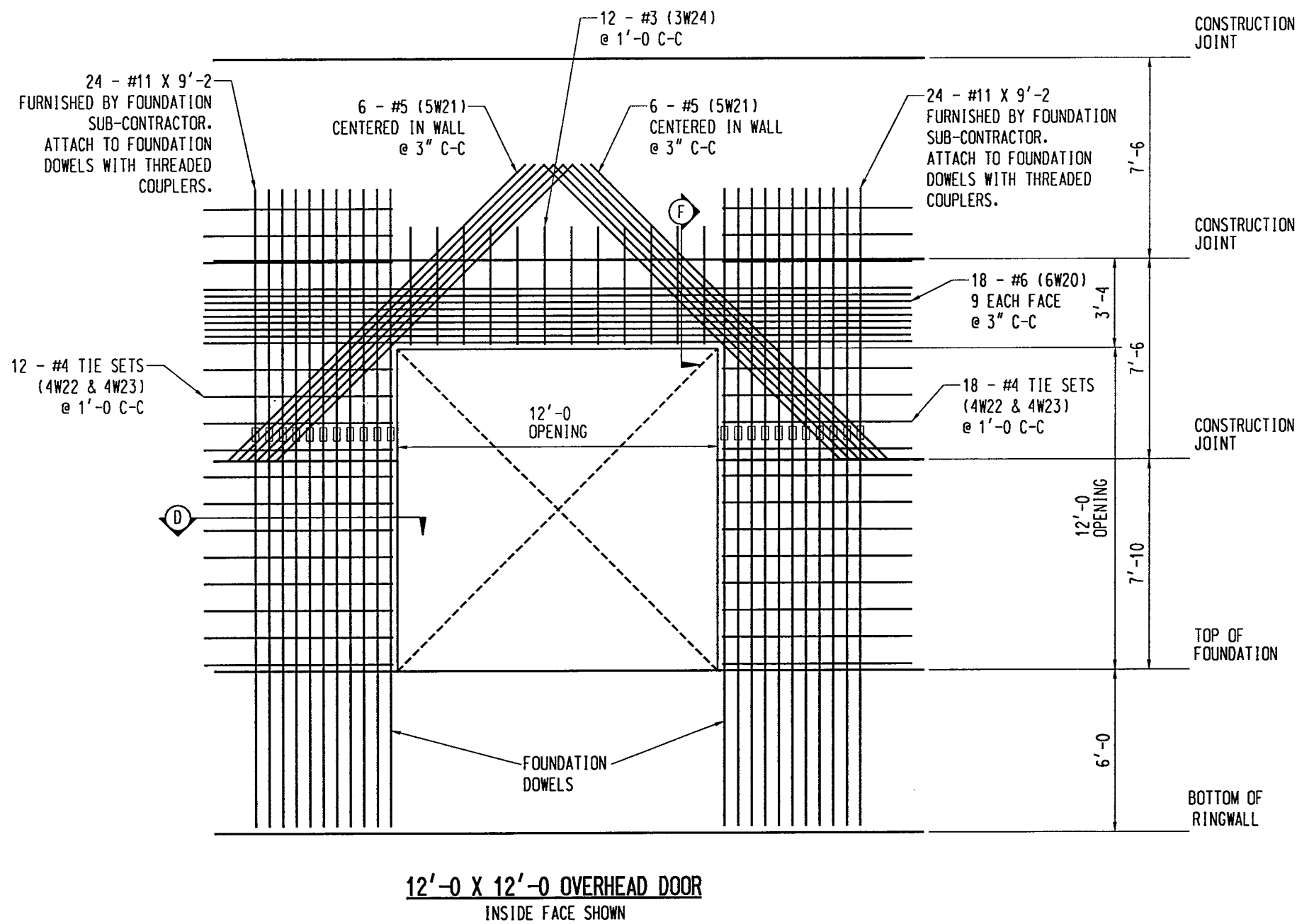
SECTION A-A

BY: *Greg A. Schrodner* DATE: 10/25/02
CERTIFIED FOR CONFORMANCE TO PLANS & SPECIFICATIONS

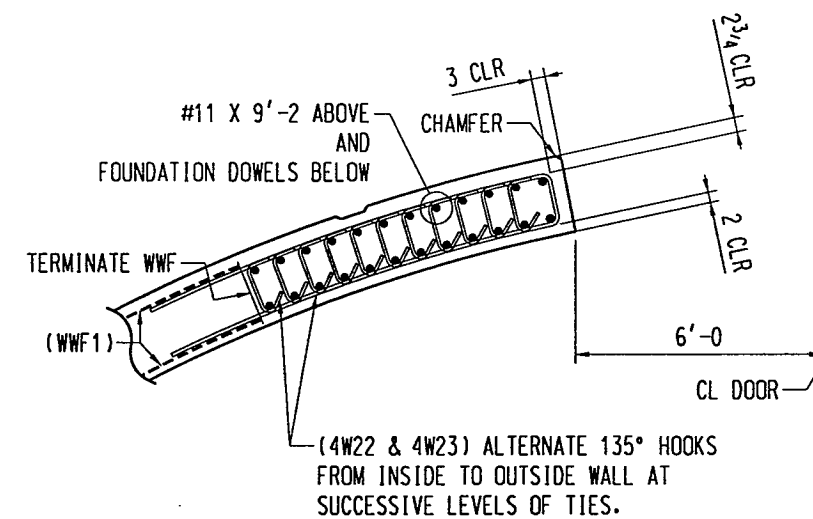
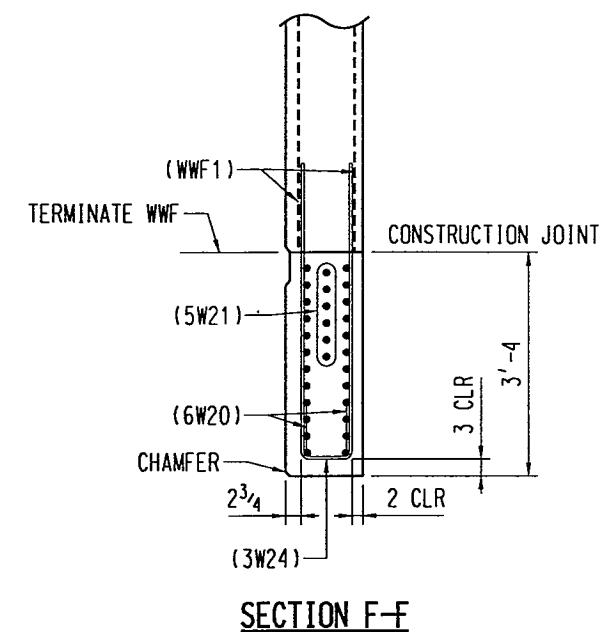


| | | | |
|---|--|--|--|
| | | SUPPLIER'S / PURCHASER'S NO | |
| WALL DETAIL - MANDOOR SPRINGER ROAD 2.0 MG ELEVATED STORAGE TANK 2000 MG CET 97' DIA X 40' HR X 52' TWR ROCKWALL, TX | | | |
| CUSTOMER'S NO BY CDS CHKD JRM DATE 22OCT02 GREG SCHRODNER - CLTIVE ENGINEERING ASSIGNED | | CONTRACT NO 137719 DWG T2 SHT 2 REV 0 | |
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INDICATES CHANGE FROM PREVIOUS ISSUE



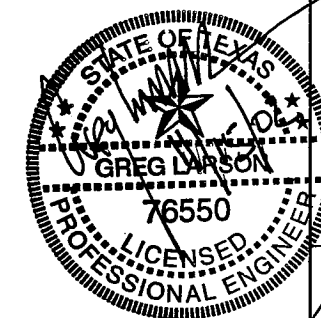
12'-0 X 12'-0 OVERHEAD DOOR
INSIDE FACE SHOWN



(4W22 & 4W23) ALTERNATE 135° HOOKS FROM INSIDE TO OUTSIDE WALL AT SUCCESSIVE LEVELS OF TIES.

SECTION D-D

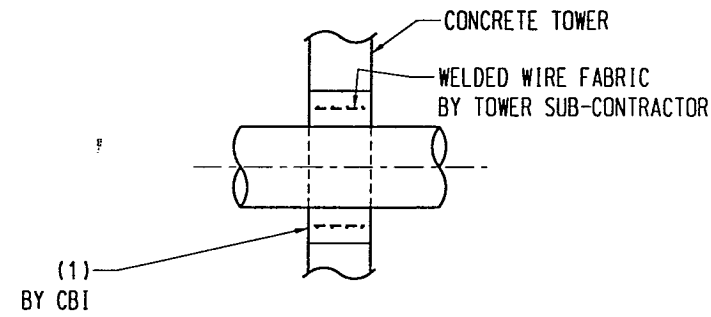
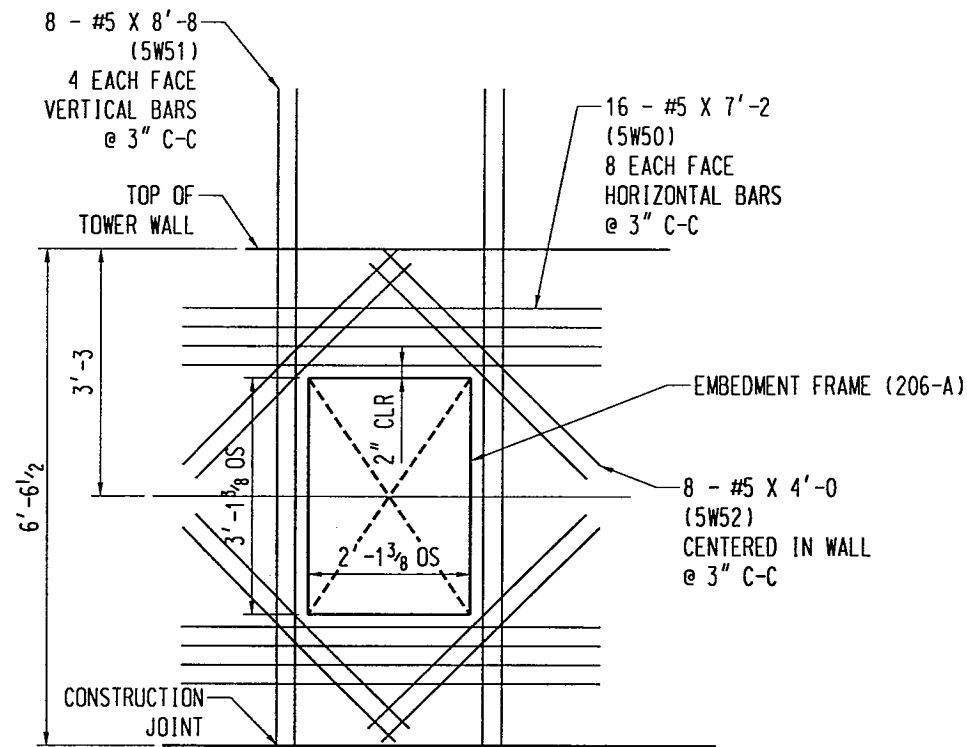
BY: *Greg A. Schroder* DATE: 10/25/02
CERTIFIED FOR CONFORMANCE TO PLANS & SPECIFICATIONS



| | | | |
|--|------|-----------------------------|----------|
| REVISIONS | | SUPPLIER'S / PURCHASER'S NO | |
| BY | DATE | | |
| BY | DATE | | |
| WALL DETAIL - OVERHEAD DOOR SPRINGER ROAD 2.0 MG ELEVATED STORAGE TANK 2000 MG CET 97' DIA X 40' HR X 52' TWR ROCKWALL, TX | | CUSTOMER'S NO | |
| BY CDS_CHKD JRM DATE 22OCT02 GREG SCHRODER - CLIVE ENGINEERING ASSIGNED | | CONTRACT NO 137719 | |
| THIS DRAWING HAS BEEN PREPARED FOR AND IS THE PROPERTY OF CHICAGO BRIDGE AND IRON COMPANY AND IS TO BE USED ONLY IN CONNECTION WITH PERFORMANCE OF WORK BY CHICAGO BRIDGE AND IRON COMPANY. REPRODUCTION IN WHOLE OR IN PART FOR ANY OTHER PURPOSE IS EXPRESSLY FORBIDDEN. | | DWG T2 | REV 0 |

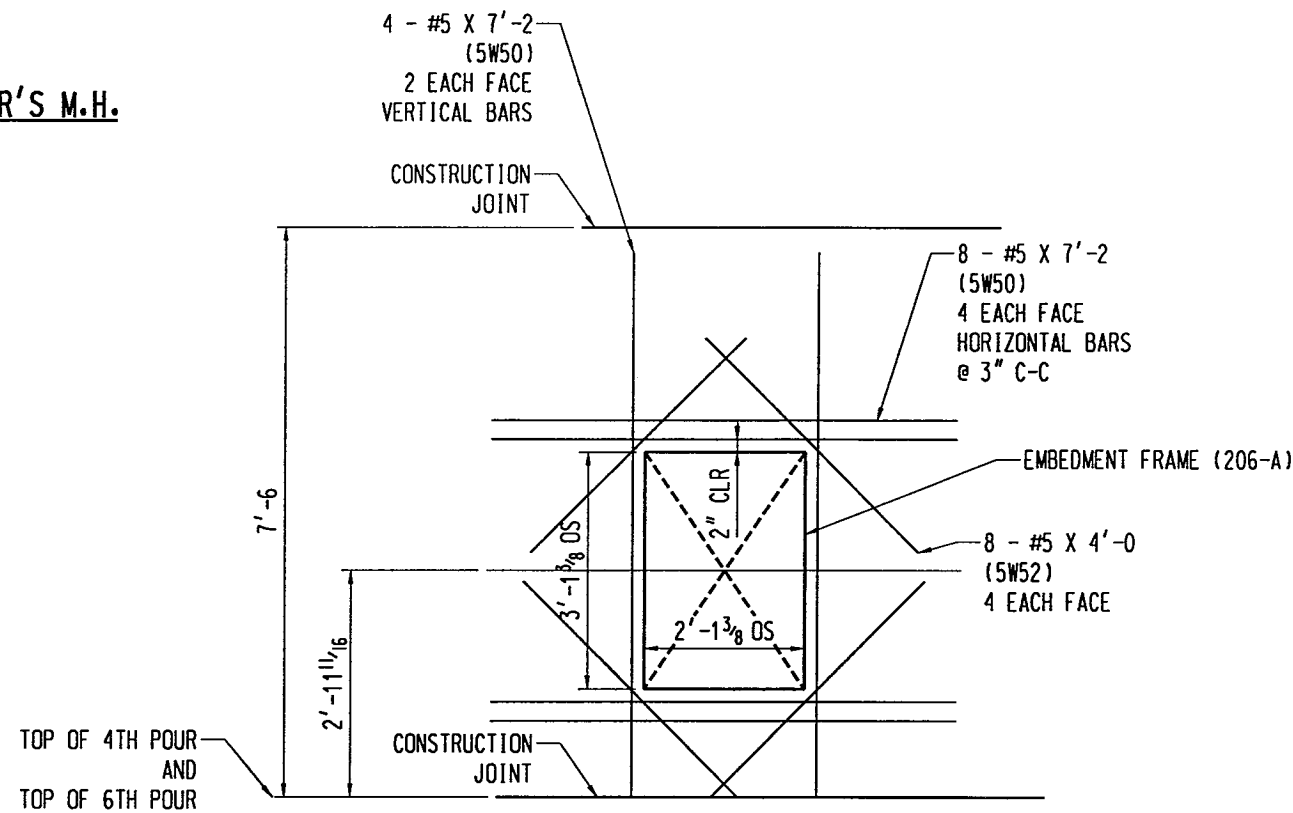
INDICATES CHANGE FROM PREVIOUS ISSUE

| SHIP PC | MARK | ASSM PC | DESCRIPTION | LENGTH | SPEC | ID | EST WT |
|---------|------|---------|---|--------|------|----|--------|
| 1 | T2-1 | | GROUT NON-SHRINKING 'SONOCRETE 14K HY FLOW ' OR 'ACD' | | | NA | 1000 |

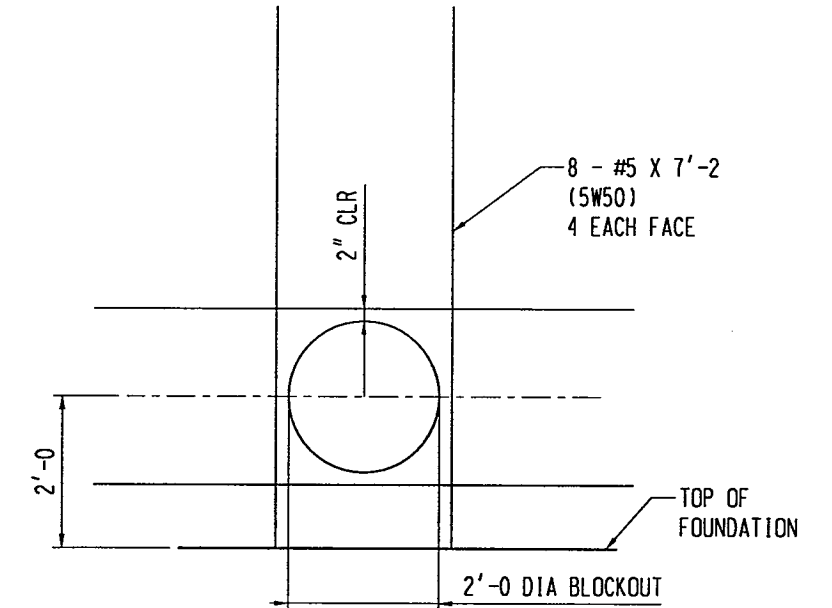


OVERFLOW BLOCKOUT CLOSURE

(1) 2'-0 x 3'-0 PAINTER'S M.H.

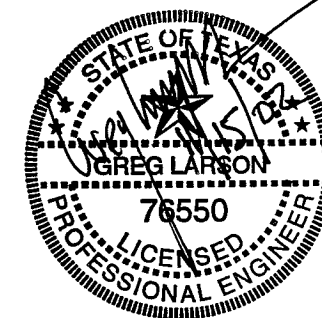


(2) 2'-0 x 3'-0 LOUVER



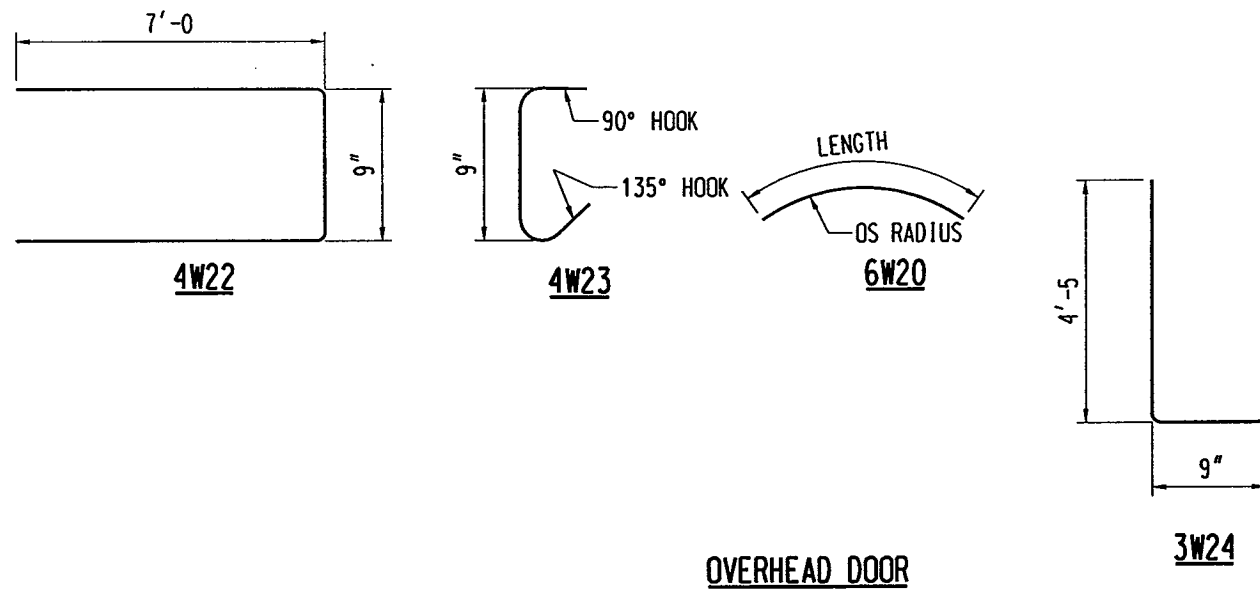
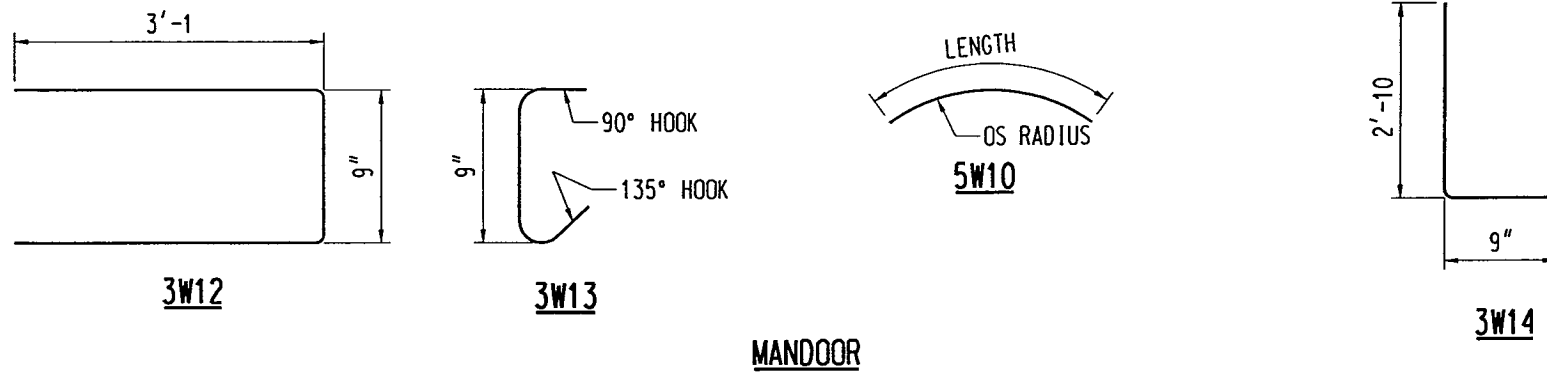
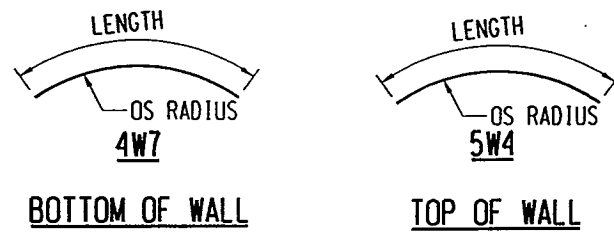
(1) 18" DIA O'FLOW BLOCKOUT

BY: *Greg A. Larson* DATE: 10/25/02
CERTIFIED FOR CONFORMANCE TO PLANS & SPECIFICATIONS



| | | | | | |
|--|------|---------|------|--|--|
| REVISIONS | | REMARKS | | SUPPLIER'S / PURCHASER'S NO | |
| BY | DATE | BY | DATE | CBI | |
| WALL OPENING DETAILS | | | | CONTRACT NO | |
| SPRINGER ROAD 2.0 MG ELEVATED STORAGE TANK | | | | 137719 | |
| 2000 MG CET 97' DIA X 40' HR X 52' TWR | | | | CUSTOMER'S NO | |
| ROCKWALL, TX | | | | BY CDS CHKD JRM DATE 22OCT02 | |
| BY: GREG SCHRODER - CLIVE | | | | DWG I2 | |
| ENGINEERING ASSIGNED | | | | REV 0 | |
| SHT 4 | | | | THIS DRAWING HAS BEEN PREPARED FOR AND IS THE PROPERTY OF CHICAGO BRIDGE AND IRON COMPANY AND IS TO BE USED ONLY IN CONNECTION WITH PERFORMANCE OF WORK BY CHICAGO BRIDGE AND IRON COMPANY. REPRODUCTION IN WHOLE OR IN PART FOR ANY OTHER PURPOSE IS EXPRESSLY FORBIDDEN. | |

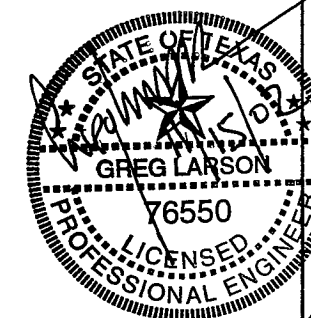
INDICATES CHANGE FROM PREVIOUS ISSUE



REINFORCING BAR LIST - WALL

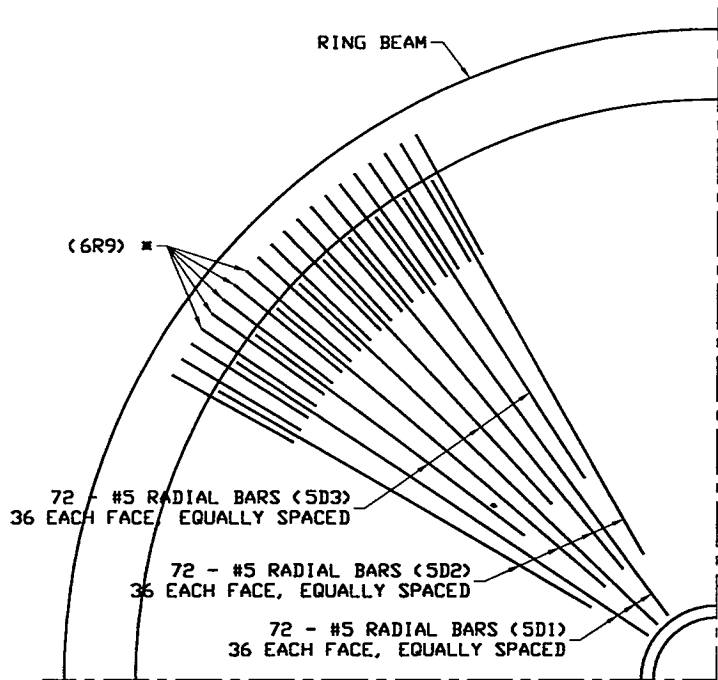
| MARK | SHAPE | BAR SIZE/ STYLE | QTY. | OS. RADIUS | LENGTH | TOTAL WEIGHT |
|---------------------------------|---------|--------------------|------|---------------|--------------|-----------------|
| TOWER WELDED WIRE FABRIC | | | | | | |
| WWF1 | — — — — | 4X4-W7.0XW5.5 | 306 | ---- | 8'-0 X 19'-4 | 61802 |
| WWF2 | — — — — | 4X4-W7.0XW5.5 | 18 | ---- | 2'-8 X 19'-4 | 1267 |
| BOTTOM OF TOWER WALL | | | | | | |
| 4W7 | ⌒ | 4 | 50 | 25'-8 7/8 | 34'-1 | 1139 |
| 3W8 | — — — — | 3 | 218 | ---- | 1'-6 | 123 |
| TOP OF TOWER WALL | | | | | | |
| 4W3 | — — — — | 4 | 432 | ---- | 8'-8 | 2501 |
| 5W4 | ⌒ | 5 | 90 | 25'-9 1/4 | 34'-5 | 3234 |
| MANDOOR | | | | | | |
| 5W10 | ⌒ | 5 | 10 | 25'-8 7/8 | 12'-9 | 133 |
| 5W11 | — — — — | 5 | 4 | ---- | 9'-2 | 38 |
| 3W12 | — — — — | 3 | 44 | ---- | 6'-11 | 114 |
| 3W13 | ⌒ | 3 | 88 | ---- | 1'-3 | 41 |
| 3W14 | — — — — | 3 | 4 | ---- | 6'-5 | 10 |
| OVERHEAD DOOR | | | | | | |
| 6W20 | ⌒ | 6 | 36 | 25'-8 7/8 | 26'-3 | 1421 |
| 5W21 | — — — — | 5 | 24 | ---- | 15'-8 | 393 |
| 4W22 | — — — — | 4 | 72 | ---- | 14'-9 | 710 |
| 4W23 | ⌒ | 4 | 792 | ---- | 1'-5 | 750 |
| 3W24 | — — — — | 3 | 24 | ---- | 9'-7 | 86 |
| MISC. OPENINGS | | | | | | |
| 5W50 | — — — — | 5 | 48 | ---- | 7'-2 | 359 |
| 5W51 | — — — — | 5 | 8 | ---- | 8'-8 | 72 |
| 5W52 | — — — — | 5 | 24 | ---- | 4'-0 | 100 |
| TOTAL | | | | | | 74293 |

BY: *Greg A. Larson* DATE: 10/25/02
CERTIFIED FOR CONFORMANCE TO PLANS & SPECIFICATIONS

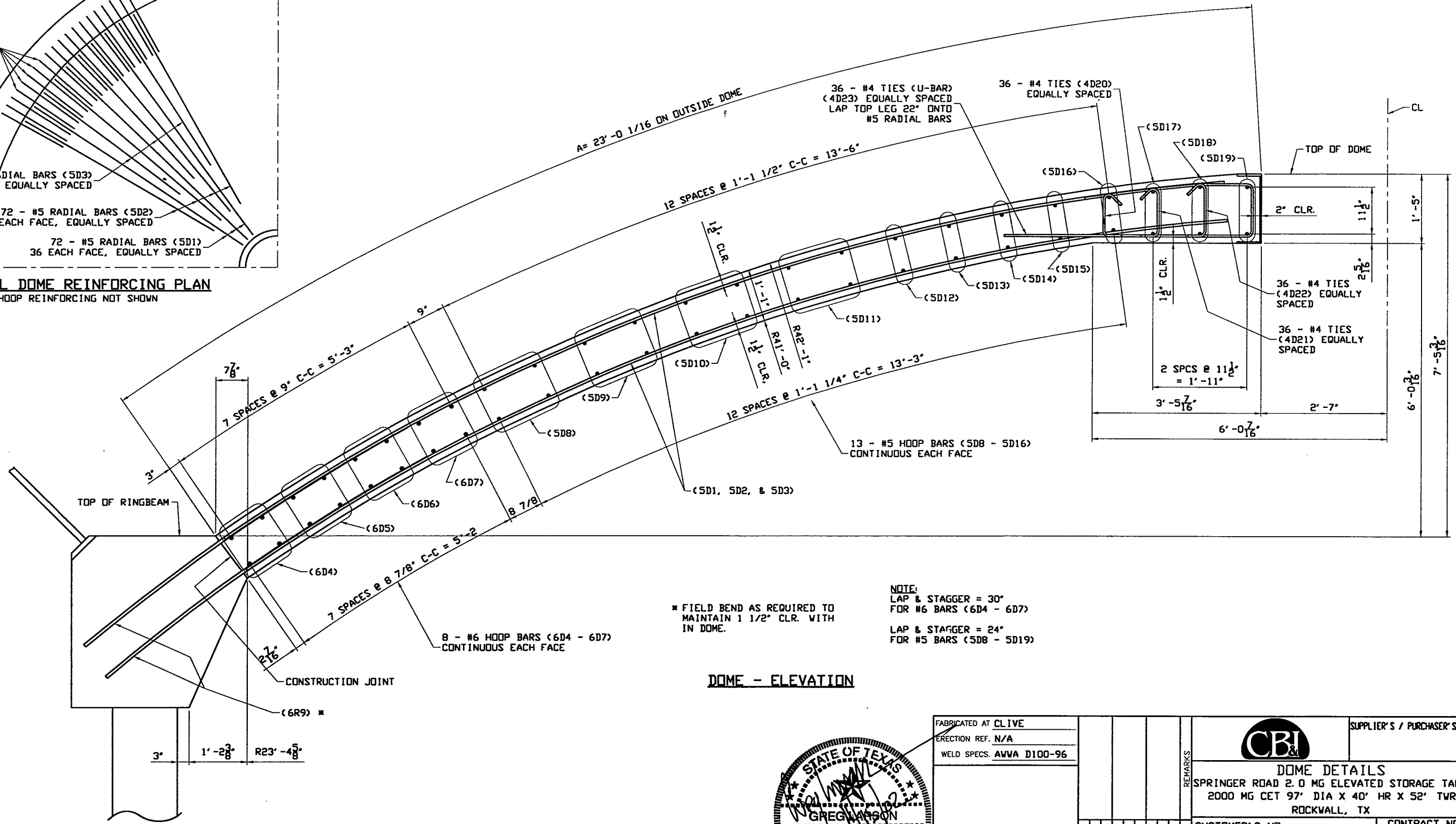


| | | | |
|---|--|-----------------------------|-------|
| CBI | | SUPPLIER'S / PURCHASER'S NO | |
| WALL REINFORCING DETAILS | | | |
| SPRINGER ROAD 2.0 MG ELEVATED STORAGE TANK 2000 MG CET 97' DIA X 40' HR X 52' TWR ROCKWALL, TX | | | |
| CUSTOMER'S NO | | CONTRACT NO | |
| BY CDS CHKO JRM DATE 22OCT02 | | 137719 | |
| GREG SCHROEDER - CLIVE | | DWG T2 | REV 0 |
| ENGINEERING ASSIGNED | | SHT 5 | |
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▶ INDICATES CHANGE FROM PREVIOUS ISSUE



PARTIAL DOME REINFORCING PLAN
HOOP REINFORCING NOT SHOWN

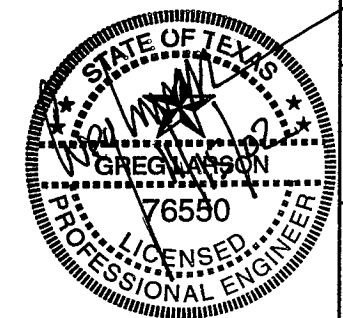


NOTE:
LAP & STAGGER = 30"
FOR #6 BARS (6D4 - 6D7)
LAP & STAGGER = 24"
FOR #5 BARS (SD8 - SD19)

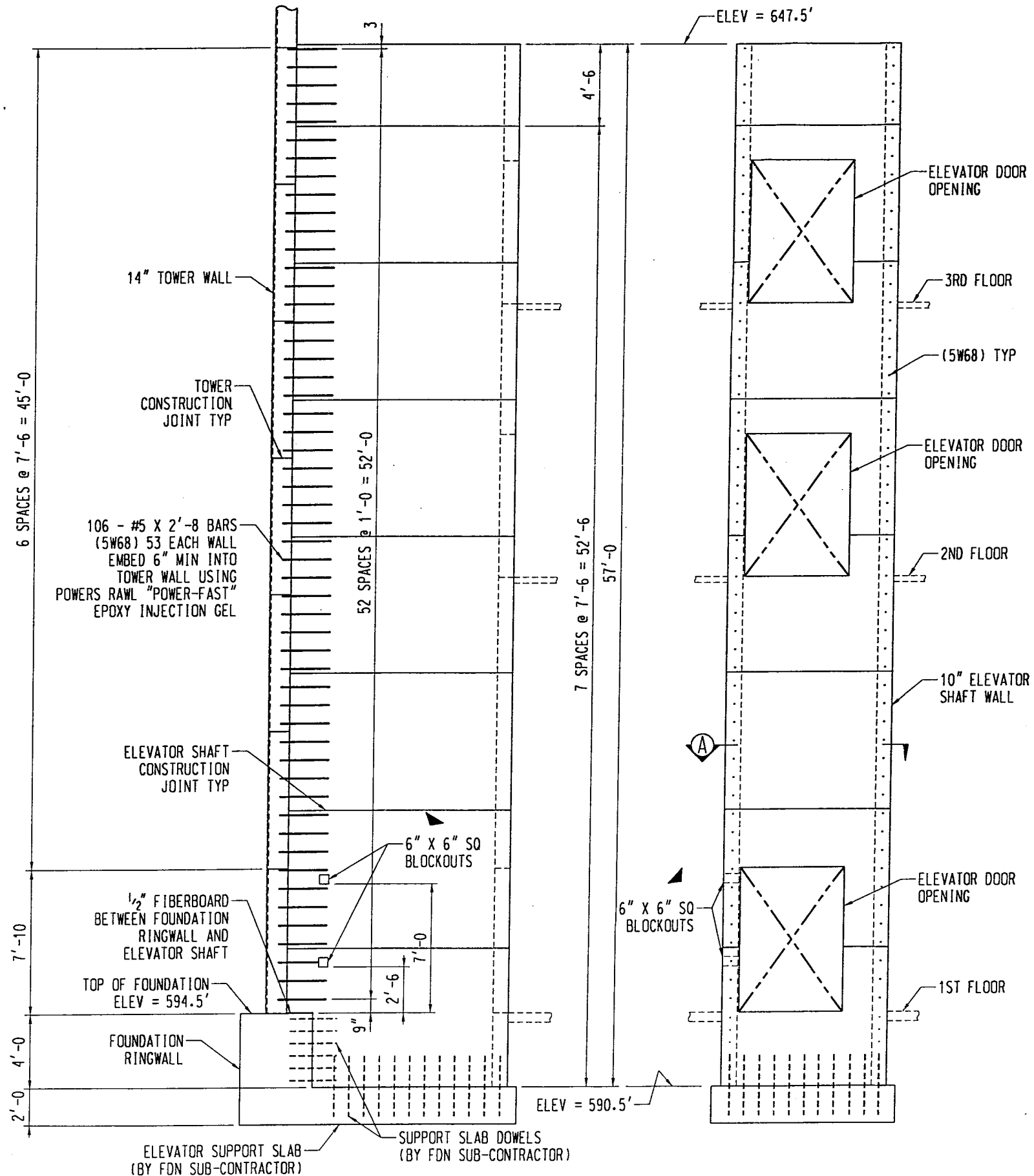
* FIELD BEND AS REQUIRED TO MAINTAIN 1 1/2" CLR. WITH IN DOME.

DOME - ELEVATION

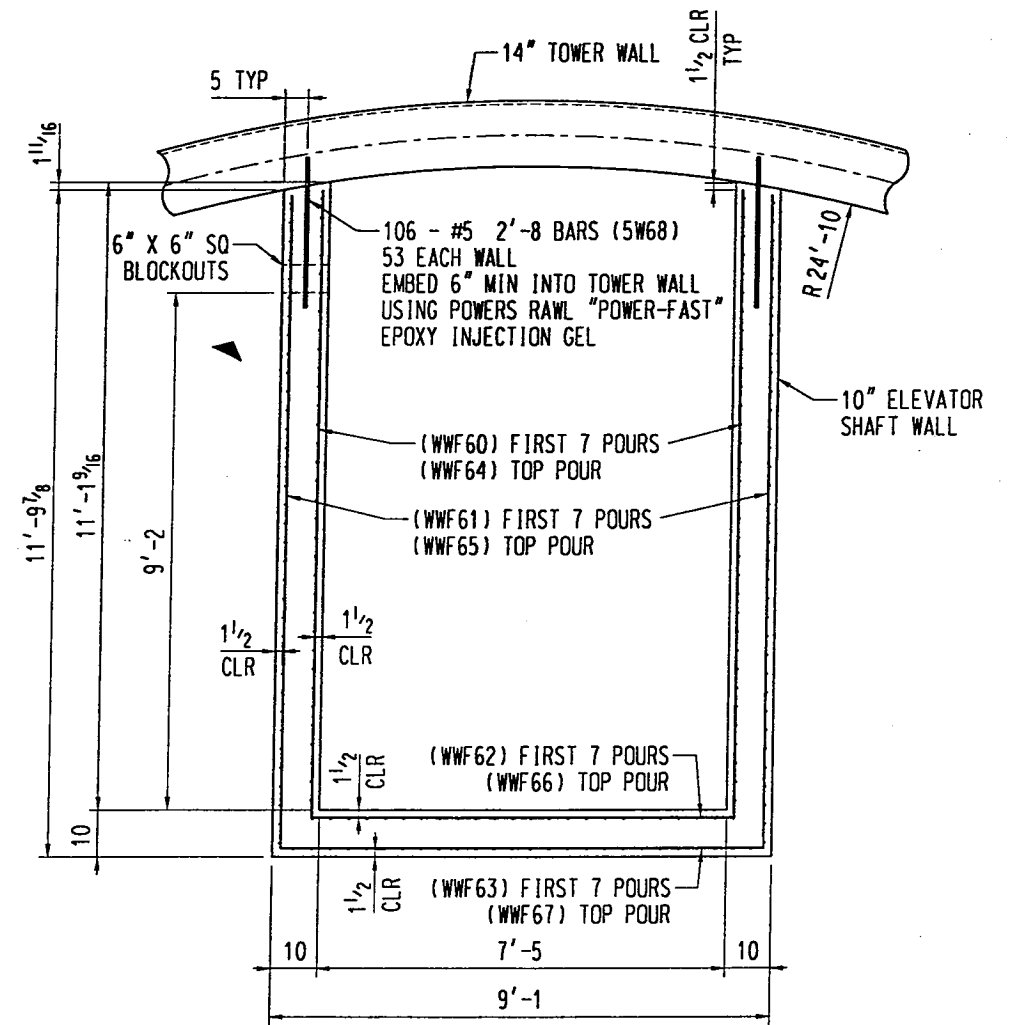
T4AC DOME 9TRDM144 09MAY01



| | | | | | |
|--|------|--------------------------------|--------------|--------------------------|------|
| FABRICATED AT CLIVE | | ERECTOR REF. N/A | | WELD SPECS. AWWA D100-96 | |
| CERIFIED FOR CONFORMANCE TO PLANS AND SPECIFICATIONS | | BY: <i>Gregory A. Schroder</i> | | DATE: 10/25/02 | |
| BY | CHKD | DATE | BY | CHKD | DATE |
| | | | | | |
| REVISIONS | | | REMARKS | | |
| | | | CBI | | |
| DOME DETAILS | | | | | |
| SPRINGER ROAD 2.0 MG ELEVATED STORAGE TANK | | | | | |
| 2000 MG CET 97' DIA X 40' HR X 52' TWR | | | | | |
| ROCKWALL, TX | | | | | |
| CUSTOMER'S NO. | | | CONTRACT NO. | | |
| BY CDS CHKD JRM DATE 22OCT02 | | | 137719 | | |
| ENGINEERING ASSIGNED | | | DVG T4 | | |
| | | | SHT 1 | | |
| THIS DRAWING HAS BEEN PREPARED FOR AND IS THE PROPERTY OF CHICAGO BRIDGE AND IRON COMPANY AND IS TO BE USED ONLY IN CONNECTION WITH PERFORMANCE OF WORK BY CHICAGO BRIDGE AND IRON COMPANY. REPRODUCTION IN WHOLE OR IN PART FOR ANY OTHER PURPOSE IS EXPRESSLY FORBIDDEN. | | | | | |

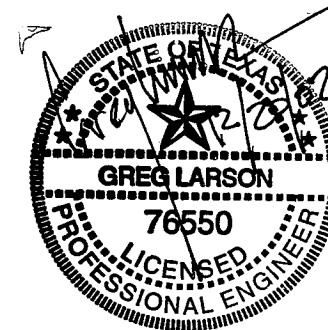


ELEVATOR SHAFT ELEVATION



SECTION A-A
 ALL WELD WIRE FABRIC (WWF60-67) IS
 WWF 4 X 4 - W5.0 X W4.0 (W5.0 HORIZONTAL)

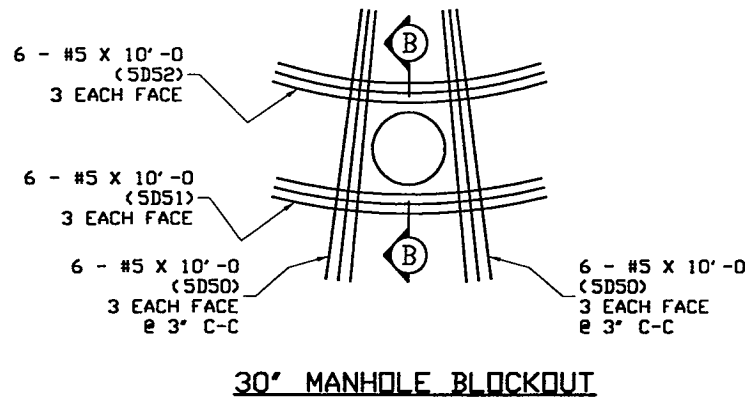
BY: *Greg A. Larson* DATE: 12/20/12
 CERTIFIED FOR CONFORMANCE TO PLANS & SPECIFICATIONS



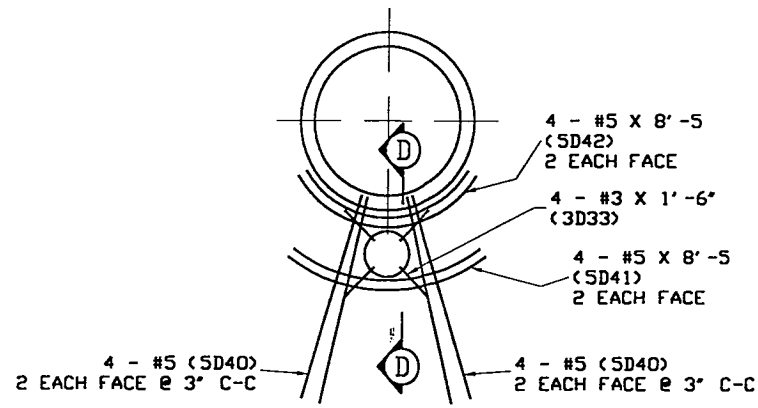
| | | | |
|---|--|-----------------------------|-------|
| REMARKS | | SUPPLIER'S / PURCHASER'S NO | |
| ADDED 6" X 6" SQ BLOCKOUTS | | CBI | |
| ELEVATOR SHAFT | | | |
| SPRINGER ROAD 2.0 MG ELEVATED STORAGE TANK | | | |
| 2000 MG CET 97' DIA X 40' HR X 52' TWR | | | |
| ROCKWALL, TX | | | |
| CUSTOMER'S NO | | CONTRACT NO | |
| BY JRM CHKD CDS DATE 18OCT02 | | 137719 | |
| GREG SCHRODER - CLIVE | | DWG T6 | REV 1 |
| ENGINEERING ASSIGNED | | SHT 1 | 1 |
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▶ INDICATES CHANGE FROM PREVIOUS ISSUE

T4.2 DOME OPENINGS 97 40 52 17MAY02

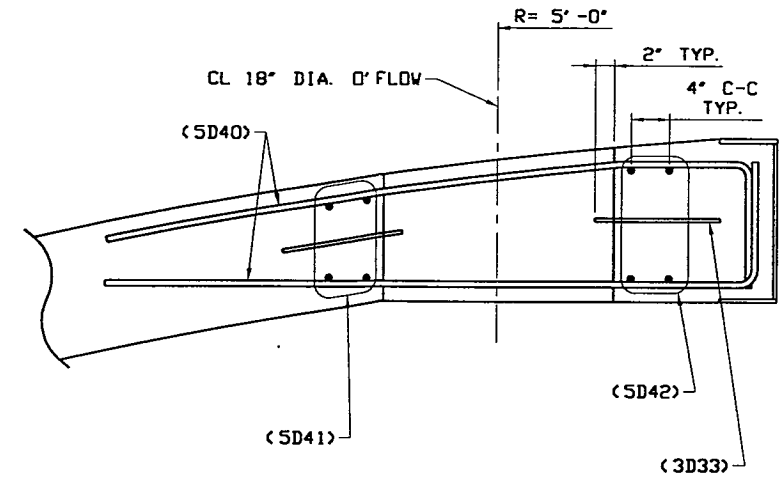


30' MANHOLE BLOCKOUT



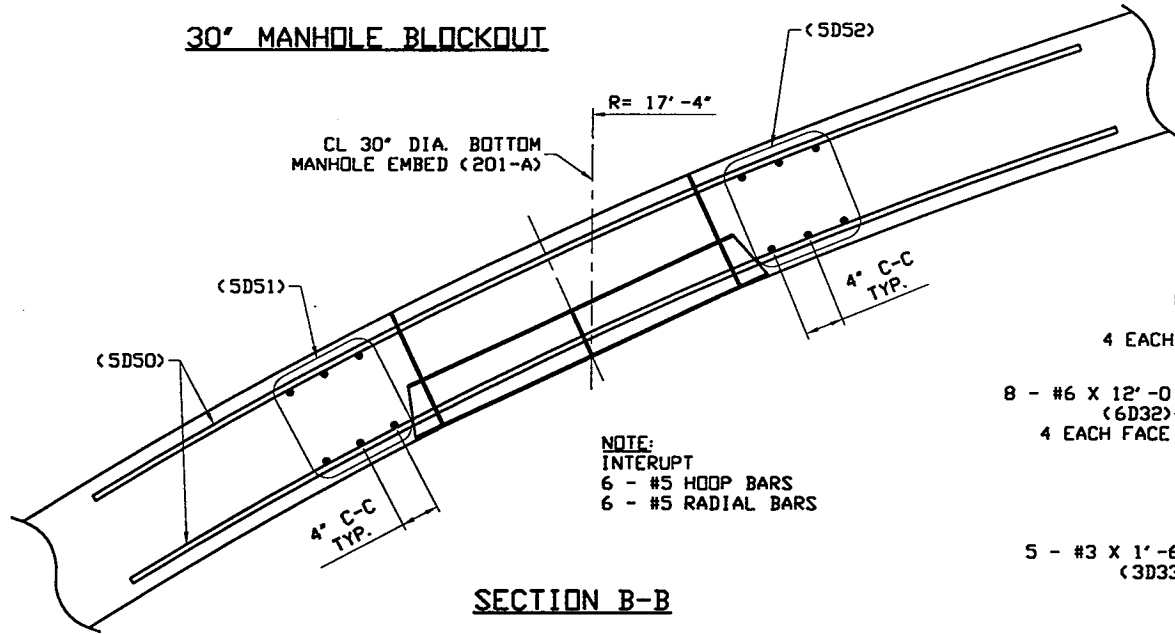
18' OVERFLOW BLOCKOUT

NOTE:
 - RADIAL AND HOOP REINFORCING NOT SHOWN FOR CLARITY.
 - INTERRUPT NO MORE RADIAL AND HOOP BARS AT BLOCKOUTS THAN NOTED. INSTALL ADDITIONAL REINFORCING AROUND OPENINGS.



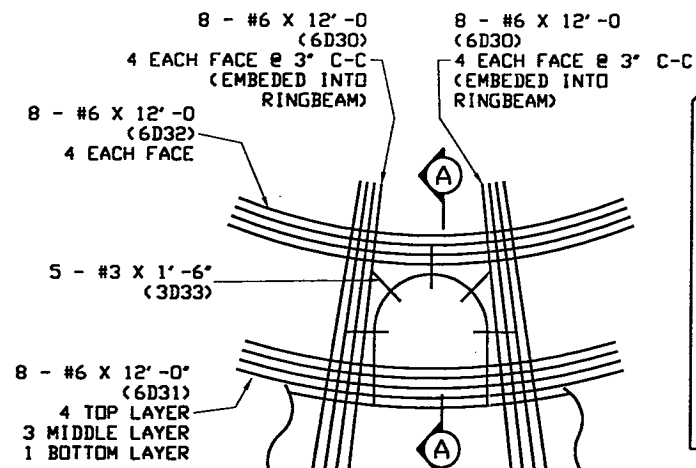
SECTION D-D

NOTE:
 INTERRUPT
 4 - #5 HOOP BARS
 4 - #5 RADIAL BARS

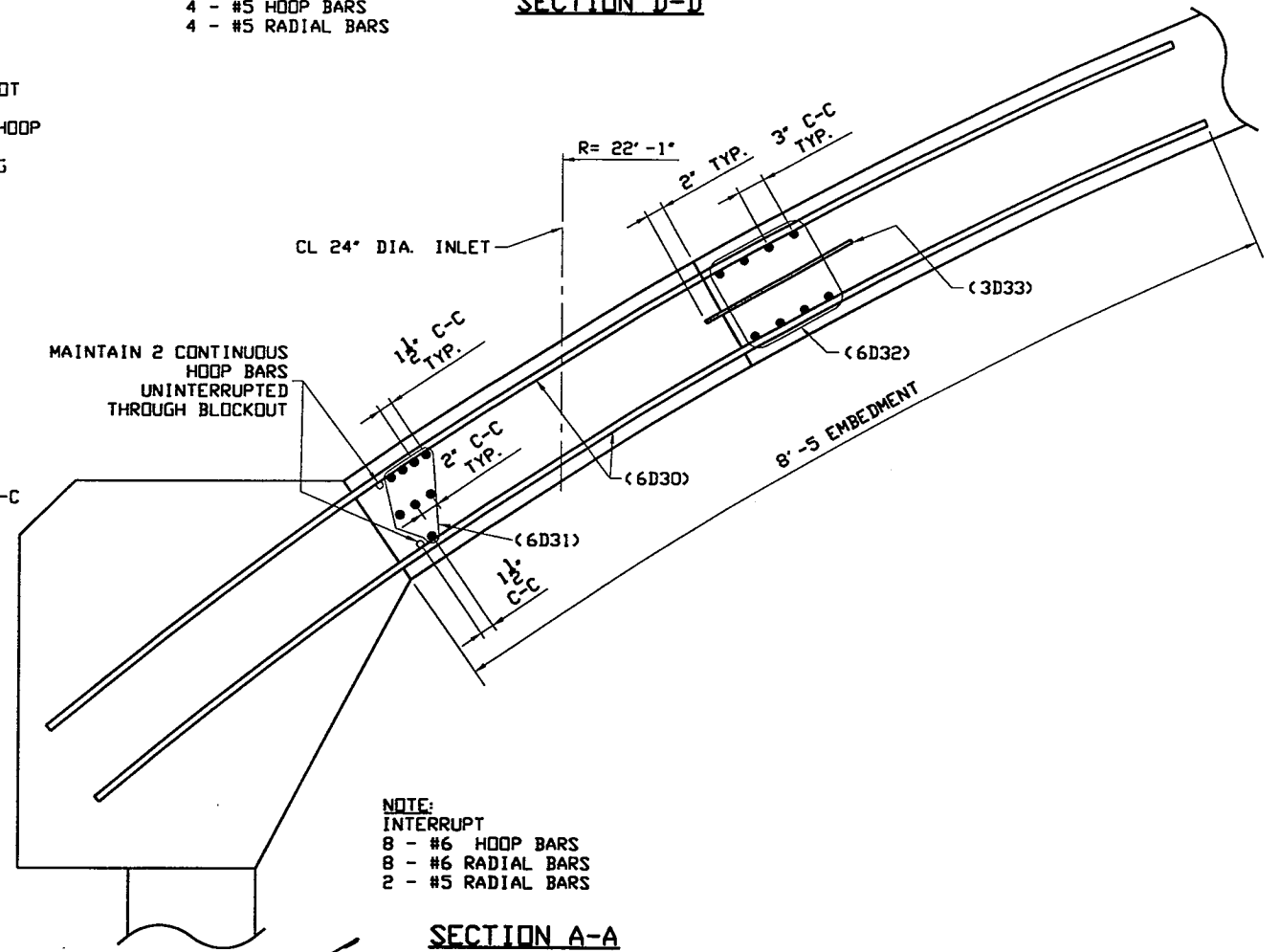


SECTION B-B

NOTE:
 INTERRUPT
 6 - #5 HOOP BARS
 6 - #5 RADIAL BARS



24' INLET BLOCKOUT



SECTION A-A

NOTE:
 INTERRUPT
 8 - #6 HOOP BARS
 8 - #6 RADIAL BARS
 2 - #5 RADIAL BARS

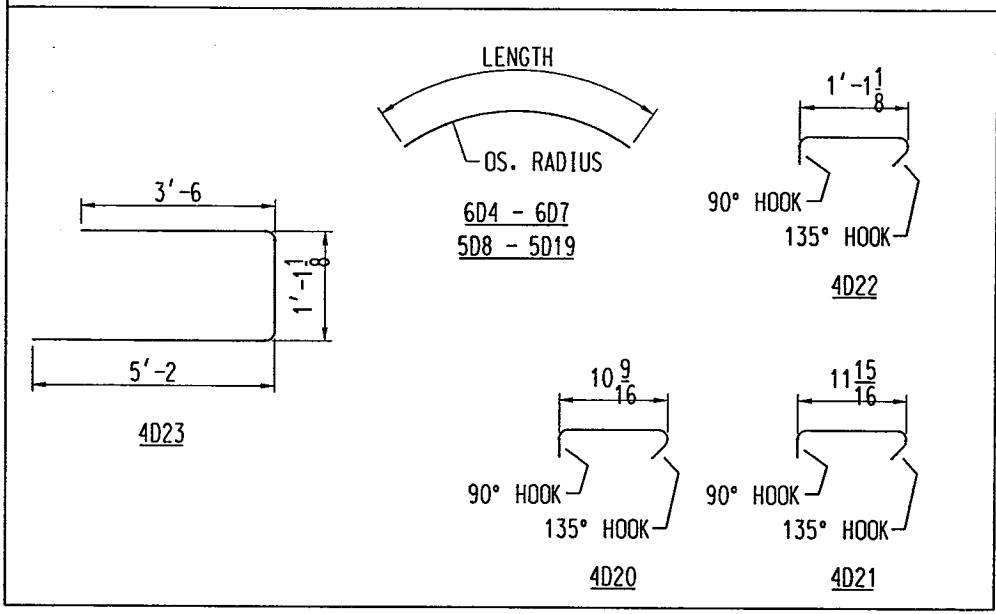


| | | | |
|---|--|--|--|
| FABRICATED AT CLIVE | | SUPPLIER'S / PURCHASER'S NO. | |
| ERECTION REF. N/A | | | |
| WELD SPECS. AWWA D100-96 | | | |
| CERTIFIED FOR CONFORMANCE TO PLANS AND SPECIFICATIONS | | DOME OPENING REINFORCING SPRINGER ROAD 2.0 MG ELEVATED STORAGE TANK 2000 MG CET 97' DIA X 40' HR X 52' TWR ROCKWALL, TX | |
| BY: <i>Greg A. Schroder</i> | | CUSTOMER'S NO. _____ | |
| DATE: 10/25/02 | | CONTRACT NO. 137719 | |
| BY CHKD DATE BY CHKD DATE BY CHKD DATE | | BY CDS CHKD JRM DATE 22OCT02 | |
| | | GREG SCHRODER | |
| | | ENGINEERING ASSIGNED | |
| | | SHT 2 | |
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REINFORCING BAR LIST - DOME

| MARK | SHAPE | BAR SIZE/STYLE | QTY. | OS. RADIUS | LENGTH | TOTAL WEIGHT |
|------|-------|----------------|------|-------------|-----------|--------------|
| 5D1 | — | 5 | 72 | — | 22'-0 1/2 | 1656 |
| 5D2 | — | 5 | 72 | — | 19'-4 1/2 | 1456 |
| 5D3 | — | 5 | 72 | — | 15'-3 1/2 | 1150 |
| 6D4 | ⌒ | 6 | 16 | 23'-8 15/16 | 39'-10 | 956 |
| 6D5 | ⌒ | 6 | 16 | 22'-5 7/8 | 37'-10 | 908 |
| 6D6 | ⌒ | 6 | 16 | 21'-2 9/16 | 35'-10 | 860 |
| 6D7 | ⌒ | 6 | 16 | 19'-10 7/8 | 33'-10 | 813 |
| 5D8 | ⌒ | 5 | 16 | 18'-6 7/8 | 31'-3 | 522 |
| 5D9 | ⌒ | 5 | 16 | 16'-6 3/8 | 28'-0 | 467 |
| 5D10 | ⌒ | 5 | 16 | 14'-5 1/4 | 24'-9 | 413 |
| 5D11 | ⌒ | 5 | 12 | 12'-3 11/16 | 27'-10 | 349 |
| 5D12 | ⌒ | 5 | 6 | 10'-1 11/16 | 23'-3 | 146 |
| 5D13 | ⌒ | 5 | 6 | 9'-0 9/16 | 21'-0 | 132 |
| 5D14 | ⌒ | 5 | 6 | 7'-11 5/16 | 18'-8 | 117 |
| 5D15 | ⌒ | 5 | 4 | 6'-10 | 23'-6 | 98 |
| 5D16 | ⌒ | 5 | 4 | 5'-8 11/16 | 20'-0 | 84 |
| 5D17 | ⌒ | 5 | 4 | 4'-9 13/16 | 17'-2 | 72 |
| 5D18 | ⌒ | 5 | 4 | 3'-10 5/16 | 14'-2 | 59 |
| 5D19 | ⌒ | 5 | 4 | 2'-10 13/16 | 11'-2 | 47 |
| 4D20 | ⌒ | 4 | 36 | — | 1'-7 | 38 |
| 4D21 | ⌒ | 4 | 36 | — | 1'-8 | 40 |
| 4D22 | ⌒ | 4 | 36 | — | 1'-10 | 44 |
| 4D23 | ⌒ | 4 | 36 | — | 9'-9 1/2 | 235 |
| | | | | | TOTAL | 10662 |

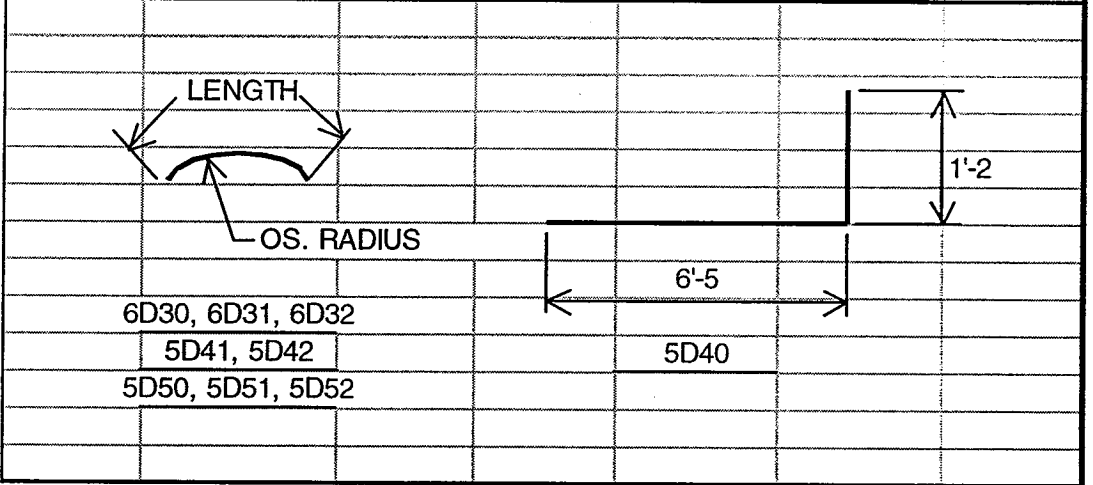
BENT BAR DETAILS



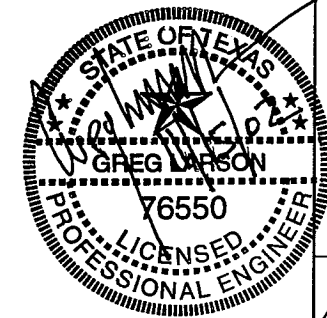
REINFORCING BAR LIST - DOME

| MARK | SHAPE | BAR SIZE/STYLE | QTY. | OS. RADIUS | LENGTH | TOTAL WEIGHT |
|---------------------|-------|----------------|------|-------------|--------|--------------|
| 24" INLET | | | | | | |
| 6D30 | ⌒ | 6 | 16 | 41'-11 1/2 | 12'-0 | 289 |
| 6D31 | ⌒ | 6 | 8 | 23'-4 | 12'-0 | 144 |
| 6D32 | ⌒ | 6 | 8 | 19'-8 15/16 | 12'-0 | 144 |
| 3D33 | — | 3 | 5 | ---- | 1'-6 | 3 |
| 18" OVERFLOW | | | | | | |
| 5D40 | ⌒ | 5 | 4 | ---- | 7'-7 | 32 |
| 5D41 | ⌒ | 5 | 4 | 6'-3 | 8'-5 | 35 |
| 5D42 | ⌒ | 5 | 4 | 3'-9 | 8'-5 | 35 |
| 3D33 | — | 3 | 4 | ---- | 1'-6 | 2 |
| 30" MANHOLE | | | | | | |
| 5D50 | ⌒ | 5 | 12 | 41'-11 1/2 | 10'-0 | 125 |
| 5D51 | ⌒ | 5 | 6 | 19'-0 7/16 | 10'-0 | 63 |
| 5D52 | ⌒ | 5 | 6 | 15'-7 1/8 | 10'-0 | 63 |
| | | | | | TOTAL | 935 |

BENT BAR DETAILS



BY: *Greg A. Schrod* DATE: 10/25/02
 CERTIFIED FOR CONFORMANCE TO PLANS & SPECIFICATIONS



CBI

DOME REINFORCING DETAILS
 SPRINGER ROAD 2.0 MG ELEVATED STORAGE TANK
 2000 MG CET 97' DIA X 40' HR X 52' TWR
 ROCKWALL, TX

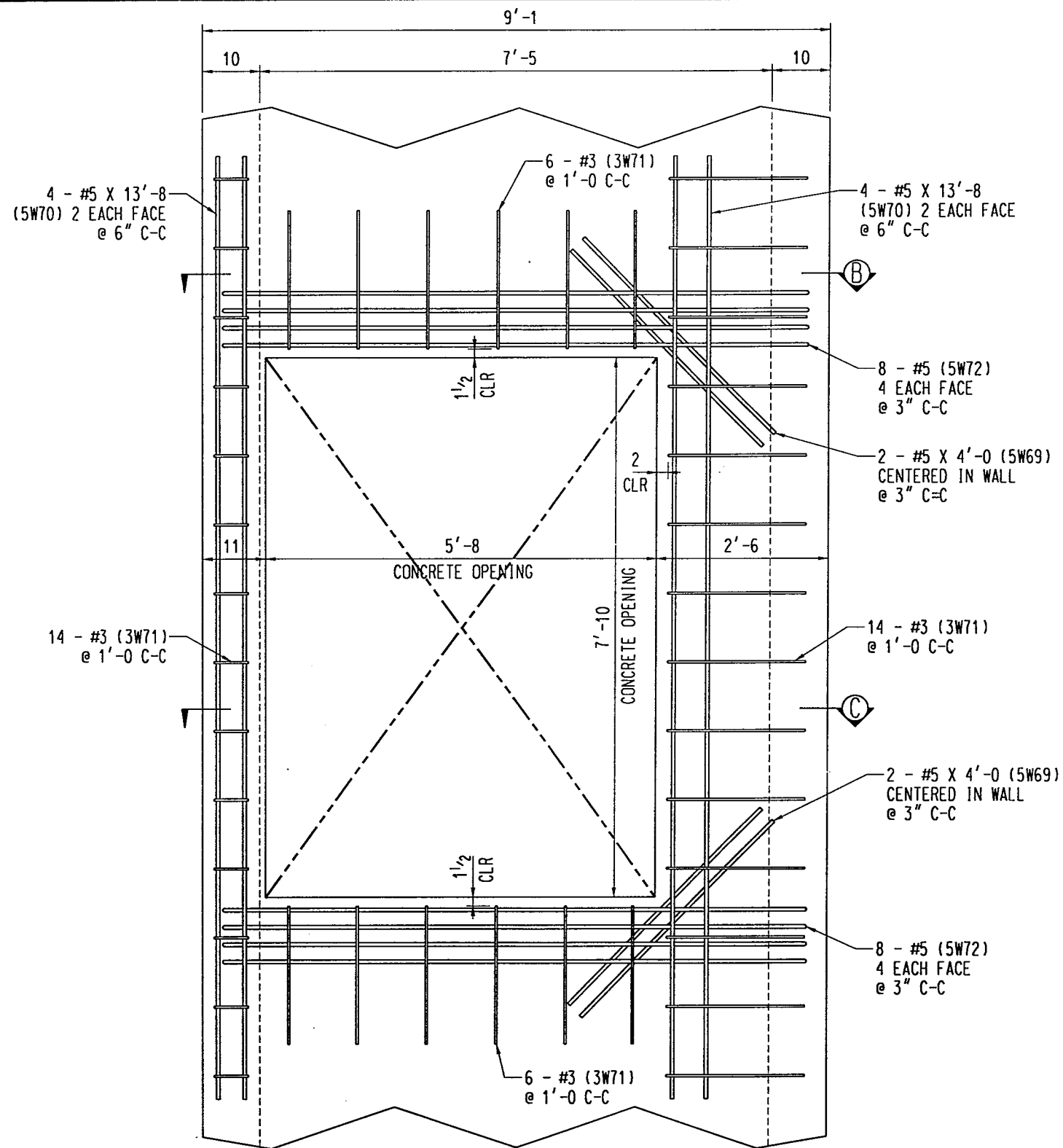
CUSTOMER'S NO: _____ CONTRACT NO: 137719
 BY: CDS_CHKD JRM DATE 22OCT02
 GREG SCHRODER - CLIVE
 ENGINEERING ASSIGNED

DWG T4 REV 0
 SHT 3

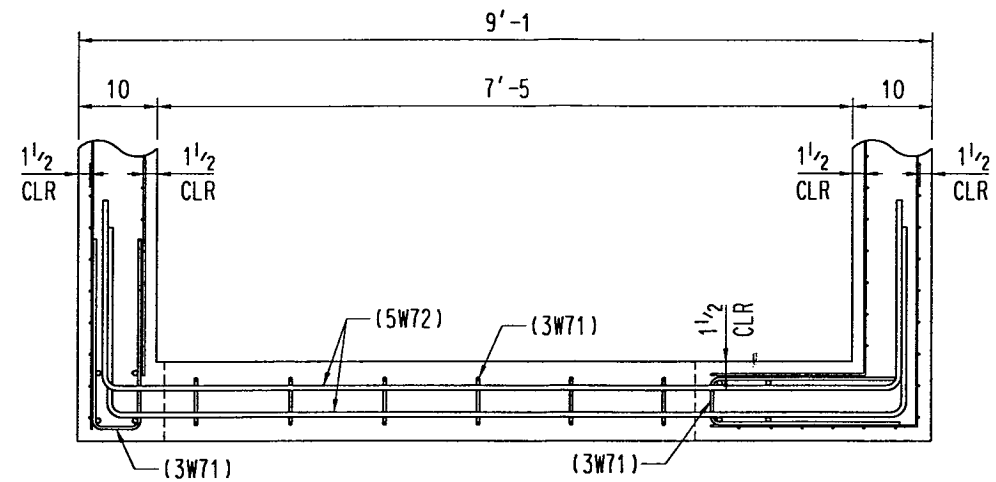
REVISIONS

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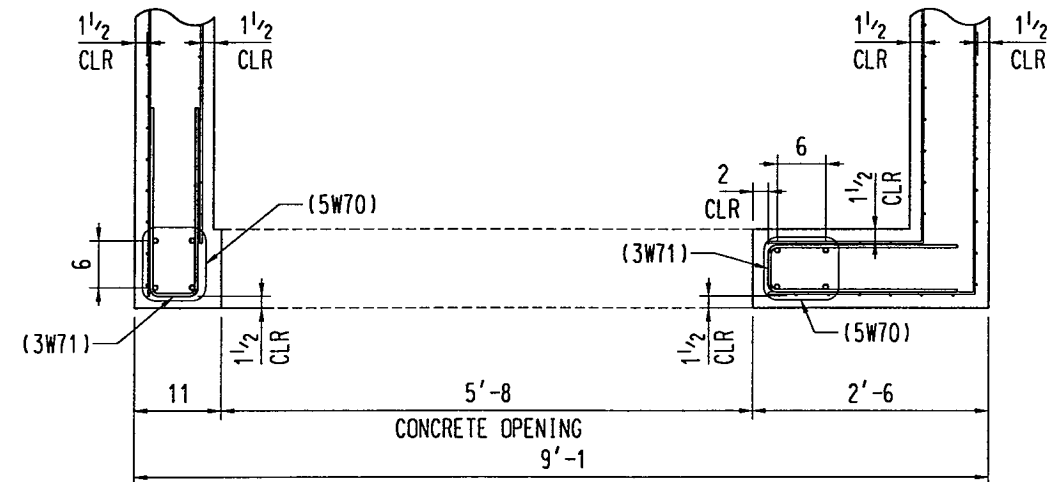
INDICATES CHANGE FROM PREVIOUS ISSUE



ELEVATOR DOOR OPENING
TYPICAL 3 LOCATIONS

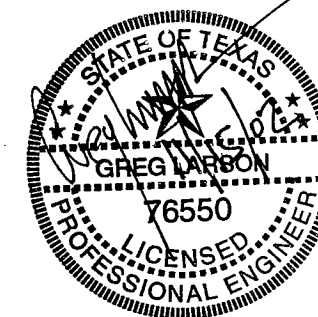


SECTION B-B



SECTION C-C

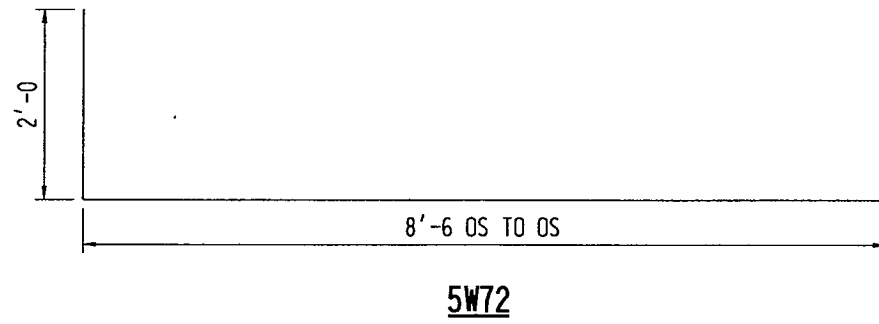
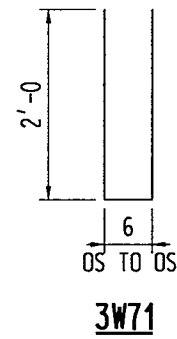
BY: *Greg A. Schrodter* DATE: 10/25/02
CERTIFIED FOR CONFORMANCE TO PLANS & SPECIFICATIONS



| | | | |
|--|------|--------------|------|
| SUPPLIER'S / PURCHASER'S NO. | | CBI | |
| ELEVATOR DOOR OPENINGS SPRINGER ROAD 2.0 MG ELEVATED STORAGE TANK 2000 MG CET 97' DIA X 40' HR X 52' TWR ROCKWALL, TX | | | |
| CUSTOMER'S NO. | | CONTRACT NO. | |
| BY JRM CHKD CDS DATE 18OCT02 | | 137719 | |
| GREG SCHRODTER - CLIVE | | DWG | T6 |
| ENGINEERING ASSIGNED | | SHT | 2 |
| REVISIONS | | REV | 0 |
| BY | DATE | BY | DATE |
| | | | |

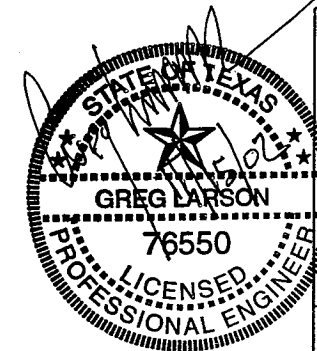
INDICATES CHANGE FROM PREVIOUS ISSUE

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| REINFORCING BAR LIST - ELEVATOR SHAFT | | | | | | |
|--|-------|--------------------|------|---------------|--------------|-----------------|
| MARK | SHAPE | BAR SIZE/ STYLE | QTY. | OS. RADIUS | LENGTH | TOTAL WEIGHT |
| ELEVATOR SHAFT WELDED WIRE FABRIC | | | | | | |
| WWF60 | — | 4X4-W5.0XW4.0 | 14 | — | 8'-0 X 11'-2 | 1176 |
| WWF61 | — | 4X4-W5.0XW4.0 | 14 | — | 8'-0 X 11'-6 | 1211 |
| WWF62 | — | 4X4-W5.0XW4.0 | 7 | — | 8'-0 X 7'-8 | 404 |
| WWF63 | — | 4X4-W5.0XW4.0 | 7 | — | 8'-0 X 8'-10 | 465 |
| WWF64 | — | 4X4-W5.0XW4.0 | 2 | — | 5'-0 X 11'-2 | 105 |
| WWF65 | — | 4X4-W5.0XW4.0 | 2 | — | 5'-0 X 11'-6 | 108 |
| WWF66 | — | 4X4-W5.0XW4.0 | 1 | — | 5'-0 X 7'-8 | 36 |
| WWF67 | — | 4X4-W5.0XW4.0 | 1 | — | 5'-0 X 8'-10 | 42 |
| ELEVATOR SHAFT REINFORCING BARS | | | | | | |
| 5W68 | — | 5 | 106 | — | 2'-8 | 295 |
| 5W69 | — | 5 | 12 | — | 4'-0 | 50 |
| 5W70 | — | 5 | 24 | — | 13'-8 | 342 |
| 3W71 | — | 3 | 120 | — | 4'-6 | 203 |
| 5W72 | — | 5 | 48 | — | 12'-6 | 626 |
| TOTAL | | | | | | 5063 |

BY: *Greg L. Larson* DATE: 10/25/02
 CERTIFIED FOR CONFORMANCE TO PLANS & SPECIFICATIONS



| | | | |
|---|--|-----------------------------|-------|
| REMARKS | | SUPPLIER'S / PURCHASER'S NO | |
| ELEVATOR SHAFT REINFORCING SPRINGER ROAD 2.0 MG ELEVATED STORAGE TANK 2000 MG CET 97' DIA X 40' HR X 52' TWR ROCKWALL, TX | | CBI | |
| CUSTOMER'S NO | | CONTRACT NO | |
| BY JRM CHKD CDS DATE 18OCT02 | | 137719 | |
| GREG SCHRODER - CLIVE ENGINEERING ASSIGNED | | DWG T6 | REV 0 |
| SHT 3 | | | |
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