

| DESIGN                                                                                                           |                                                         | GENERAL NOTES                                                                                                                                                                                                               |  |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| NO REQUIRED                                                                                                      | 01                                                      | TANK FABRICATED IN VERMILION, AR                                                                                                                                                                                            |  |
| DESCRIPTION                                                                                                      | 20' DI. DIA. 1.37' HIGH EMULSION TANK TKG-2330          | THESE DRAWINGS HAVE BEEN REVIEWED FOR COMPLIANCE WITH GOOD INDUSTRY PRACTICES REFERENCEING API-650 (MODIFIED) AND THE APPLICABLE CONTRACT. PROCESS CONSIDERATIONS REMAIN THE RESPONSIBILITY OF THE USER'S DESIGNATED AGENT. |  |
| CAPACITY (NOH)                                                                                                   | 2300 BBL                                                | OPEN CONNECTIONS SHALL BE BLANKED WITH TEMPORARY SHIPPING COVERS. IT IS THE RESPONSIBILITY OF THE OWNER(S) AGENT TO ENSURE TANK IS PROPERLY PREPARED FOR SERVICE.                                                           |  |
| SERVICE                                                                                                          | EMULSION TANK                                           |                                                                                                                                                                                                                             |  |
| DESIGN CODES                                                                                                     | API-650 (MODIFIED)                                      |                                                                                                                                                                                                                             |  |
| SPECIFICATIONS                                                                                                   | NA                                                      |                                                                                                                                                                                                                             |  |
| STAMPING                                                                                                         | NA                                                      |                                                                                                                                                                                                                             |  |
| DESIGN PRESSURE                                                                                                  | 8.0 or PRESS. 10.4 or VAC                               |                                                                                                                                                                                                                             |  |
| OPERATING PRESSURE                                                                                               | NA                                                      |                                                                                                                                                                                                                             |  |
| DESIGN TEMPERATURE                                                                                               | 200°F                                                   |                                                                                                                                                                                                                             |  |
| MODT                                                                                                             | 11°F                                                    |                                                                                                                                                                                                                             |  |
| SPECIFIC GRAVITY                                                                                                 | 10                                                      | DESIGN NOTES                                                                                                                                                                                                                |  |
| JUNIT EFFICIENCY                                                                                                 | SHELL 1.0 / ROOF N/A / BOTTOM N/A                       | 1. THIS TANK HAS BEEN DESIGNED FOR SMALL TENSILE INTERNAL DESIGN PRESSURE AND WIND OVERTURNING.                                                                                                                             |  |
| CORROSION ALLOWANCE                                                                                              | SHELL 1/16" / ROOF 1/16" / BOTTOM 1/16"                 | 2. NORMAL AND EMERGENCY VENTING IN ACCORDANCE WITH API-2000 HAS NOT BEEN REQUESTED AND IS NOT PROVIDED.                                                                                                                     |  |
| ROOF LOADS                                                                                                       | NOZZLES N/A / PILING N/A                                | 3. WIND AND EARTHQUAKE DESIGN AS PER NBC.                                                                                                                                                                                   |  |
| WIND LOADS                                                                                                       | 31.1 BPSF (30NOH) / 20 BPSF (LUGS) / 1.5 BPSF (DEAD)    | 4. STARWAY AND PLATFORMS ARE IN ACCORDANCE WITH INDUSTRY STANDARDS.                                                                                                                                                         |  |
| SEISMIC LOADS                                                                                                    | 111 NOH                                                 | 5. ROOF TO SHELL JUNT IS NOT BACK-WELDED.                                                                                                                                                                                   |  |
| FOUNDATION TYPE                                                                                                  | SS-12 Wg / SI 2.3 Wg / SO 48Wg / AV 07Wg                | 6. LIFTING LUGS ARE FOR LIFTING EMPTY TANK ONLY.                                                                                                                                                                            |  |
| WEIGHTS                                                                                                          | DRIVEN STEEL PILES & SAND (BY OTHERS)                   |                                                                                                                                                                                                                             |  |
| BASE                                                                                                             | T.B.D.                                                  |                                                                                                                                                                                                                             |  |
| DRESSED                                                                                                          | T.B.D.                                                  |                                                                                                                                                                                                                             |  |
| FILL OF WATER                                                                                                    | T.B.D.                                                  |                                                                                                                                                                                                                             |  |
| MATERIALS                                                                                                        |                                                         | MATERIAL NOTES                                                                                                                                                                                                              |  |
| SHELL                                                                                                            | A-36 OR EQUAL                                           | 1. ALL PILES HAVE BEEN REQUESTED FOR MAIN STEEL ONLY AND WILL BE PROVIDED.                                                                                                                                                  |  |
| ROOF                                                                                                             | A-36 OR EQUAL                                           | 2. THIEF HATCH NOZZLE, MANWAY & NOZZLE N/A ARE FABRICATED AND CONSEQUENTLY NOT RATED AT CLASS 150.                                                                                                                          |  |
| BOTTOM                                                                                                           | A-36 OR EQUAL                                           | 3. NOZZLE GASKETS NON-ASBESTOS.                                                                                                                                                                                             |  |
| CONE                                                                                                             | N/A                                                     | 4. BOLTING ON TETLON WASHERS ON COATED FLANGES.                                                                                                                                                                             |  |
| HEAD                                                                                                             | N/A                                                     |                                                                                                                                                                                                                             |  |
| SUPPORT STRUCTURE                                                                                                | N/A                                                     |                                                                                                                                                                                                                             |  |
| NOZZLE FLANGE                                                                                                    | A-105                                                   | FABRICATION NOTES                                                                                                                                                                                                           |  |
| NOZZLE NECK                                                                                                      | A-106 GR B                                              | 1. LUG APPROVED WELD PROCEDURES HAVE BEEN REQUESTED AND ARE AVAILABLE FOR IN-HOUSE REVIEW ONLY.                                                                                                                             |  |
| COUPLINGS & ORINGS                                                                                               | A-182-F3M                                               |                                                                                                                                                                                                                             |  |
| MANWAY FLANGE                                                                                                    | A-36 OR EQUAL                                           |                                                                                                                                                                                                                             |  |
| MANWAY NECK                                                                                                      | A-36 OR EQUAL                                           |                                                                                                                                                                                                                             |  |
| REINFORCING BARS                                                                                                 | A-36 OR EQUAL                                           |                                                                                                                                                                                                                             |  |
| PIPING                                                                                                           | NON-PRESSURE A-36 GR B / PRESSURE A-106 GR B (IF REQ'D) |                                                                                                                                                                                                                             |  |
| FITTINGS                                                                                                         | NON-PRESSURE A-234-WPB / PRESSURE A-234-WPB (IF REQ'D)  |                                                                                                                                                                                                                             |  |
| GASKETS                                                                                                          | TH, M, & M13 NEOPRENE / SEE MATERIAL NOTE 3             |                                                                                                                                                                                                                             |  |
| BOLTING                                                                                                          | A-193-B7 STUDS w/ A-194-2H NUTS, MATERIAL NOTE 4        |                                                                                                                                                                                                                             |  |
| STRUCTURAL BOLTING                                                                                               | A-36 OR EQ / G40-21-4W / A-193-3M / C/S                 |                                                                                                                                                                                                                             |  |
| NAMEPLATE                                                                                                        | GR 5 PLATED ALUMINUM                                    |                                                                                                                                                                                                                             |  |
| OTHER                                                                                                            | N/A                                                     |                                                                                                                                                                                                                             |  |
| FINISHING                                                                                                        |                                                         | FINISHING NOTES                                                                                                                                                                                                             |  |
| EXTERIOR                                                                                                         |                                                         | 1. ALL INTERNAL INSPECTION TO OBTAIN THICKNESS READINGS AND RECORD SAME. ARE AS PER SSPC-P2.                                                                                                                                |  |
| SHELL & ROOF TO RECEIVE                                                                                          |                                                         | 2. INTERNAL COATING HOLIDAY DETECTION TO BE CONDUCTED IN ACCORDANCE WITH NACE SP0189-2006.                                                                                                                                  |  |
| BRUSH BLAST SSPC-SP7                                                                                             |                                                         | 3. FLANGES FACE MAY RECEIVE INTERNAL COATING BUT ARE EXCLUDED FROM SPECIFIC BLAST AND MILS DFT REQUIREMENTS.                                                                                                                |  |
| (1) COAT OF SHOP PRIMER (CLOVERDALE 7138 GREY/ METAL)                                                            |                                                         |                                                                                                                                                                                                                             |  |
| (1) COAT OF ALKALOXY PRIMER (CLOVERDALE 111 SERIES) COLOUR BLACK                                                 |                                                         |                                                                                                                                                                                                                             |  |
| (1) COAT OF ALKALOXY PRIMER (CLOVERDALE 111 SERIES) COLOUR BRASS                                                 |                                                         |                                                                                                                                                                                                                             |  |
| (1) COAT OF ALKALOXY PRIMER (CLOVERDALE 111 SERIES) COLOUR STAINWAY HANDRAILS (GALVEY YELLOW)                    |                                                         |                                                                                                                                                                                                                             |  |
| PROTECTIONS: ROOF PLATFORM, CLIPS & HANDRAILS, & STARWAY STRINGERS, CLIPS, BRACES, TREADS & HANDRAILS TO RECEIVE |                                                         |                                                                                                                                                                                                                             |  |
| BRUSH BLAST SSPC-SP7                                                                                             |                                                         |                                                                                                                                                                                                                             |  |
| (1) COAT OF SHOP PRIMER (CLOVERDALE 7138 GREY/ METAL)                                                            |                                                         |                                                                                                                                                                                                                             |  |
| (1) COAT OF ALKALOXY PRIMER (CLOVERDALE 111 SERIES) COLOUR BRASS                                                 |                                                         |                                                                                                                                                                                                                             |  |
| (1) COAT OF ALKALOXY PRIMER (CLOVERDALE 111 SERIES) COLOUR STAINWAY HANDRAILS (GALVEY YELLOW)                    |                                                         |                                                                                                                                                                                                                             |  |
| TANK UNDERCOAT TO RECEIVE MIL                                                                                    |                                                         |                                                                                                                                                                                                                             |  |
| INTERIOR COATING                                                                                                 |                                                         | TESTING                                                                                                                                                                                                                     |  |
| SHELL, ROOF & FLOOR TO RECEIVE                                                                                   |                                                         | 1. TANK SHALL RECEIVE AIR TEST TO 15.0 or PRESSURE AND INSPECTED WITH SONG SOLUTION.                                                                                                                                        |  |
| MEAN WHITE METAL BLAST SSPC-SP10                                                                                 |                                                         | 2. TANK FLOOR SHALL RECEIVE VACUUM TEST 0.30 PSIG.                                                                                                                                                                          |  |
| (1) S20 MILS DFT TO ALL DFT OF DEVICE DEWMA1100                                                                  |                                                         | 3. TANK SHELL SHALL RECEIVE SPOT RADIOGRAPHY PER API-650 FOR FREQUENCY AND INTERPRETATION.                                                                                                                                  |  |
| TANK INTERNALS TO RECEIVE MIL                                                                                    |                                                         | 4. OCTEST RECORDS HAVE BEEN REQUESTED AND ARE AVAILABLE FOR IN-HOUSE REVIEW ONLY.                                                                                                                                           |  |

| DRAWING TITLE |                                             | REV | RELEASE   | REV | DATE |
|---------------|---------------------------------------------|-----|-----------|-----|------|
| 01            | TANK DATA SHEET                             | 0   | 06-MAY-12 | -   | -    |
| 02a           | G.A. - NOZZLE SCHEDULE AND PLAN VIEW        | 0   | 06-MAY-12 | -   | -    |
| 02b           | G.A. - ELEVATION VIEW AND WELD DETAILS      | 0   | 06-MAY-12 | -   | -    |
| 03            | MANWAY DETAILS                              | 0   | 06-MAY-12 | -   | -    |
| 04            | ROOF CONNECTION DETAILS                     | 0   | 06-MAY-12 | -   | -    |
| 05            | LEVEL GAUGE ASSEMBLY DETAIL                 | 0   | 06-MAY-12 | -   | -    |
| 06a           | ROOF PLATFORM DETAIL                        | 0   | 06-MAY-12 | -   | -    |
| 06b           | ROOF PLATFORM SUPPORT DETAIL                | 0   | 06-MAY-12 | -   | -    |
| 06c           | ROOF PLATFORM SUPPORT DETAIL                | 0   | 06-MAY-12 | -   | -    |
| 06d           | ROOF PLATFORM HANDRAIL DETAIL               | 0   | 06-MAY-12 | -   | -    |
| 50            | MAIN STEEL ASSEMBLY DETAIL                  | 0   | 25-APR-12 | -   | -    |
| RT            | MAIN STEEL RT STRETCH OUT (FOR QC USE ONLY) | 0   | 06-MAY-12 | -   | -    |
| LUGS          | LUG STANDARD LUGS                           | 3   | 06-MAY-12 | -   | -    |
| MISC.         | LUG STANDARD MISC. ATTACHMENTS              | 1   | 06-MAY-12 | -   | -    |
| TTP           | TANK INSPECTION & TEST PLAN                 | 0   | 06-MAY-12 | -   | -    |

API

ED

11

ADD

2

APP

MOD

12

API 650 ED 11 ADD 2 APP MOD 12

SERIAL No

12-023-1

YEAR

2012

OWNER TAG No

TK-2330

SERVICE

EMULSION TANK

NOM DIA

20'-6"

NOM HT

32'-0"

NOM CAP

2300 BBL

DES PRES

8.0 or PRESS. 10.4 or VAC

DES S G

1.0

MODT

11°F

DECK THK

5/16"

SHELL THK

1/4" BTM / 3/16" REMAINDER

BTM THK

5/16"

BTM TYPE

FLAT

P.W.H.T

N/A

DES LIQ LVL

32'-0"

MAX TEMP

200°F

NAMEPLATE STAMPING DETAIL

(STAMPING TO BE 5027 MIN)

0

0

0

0

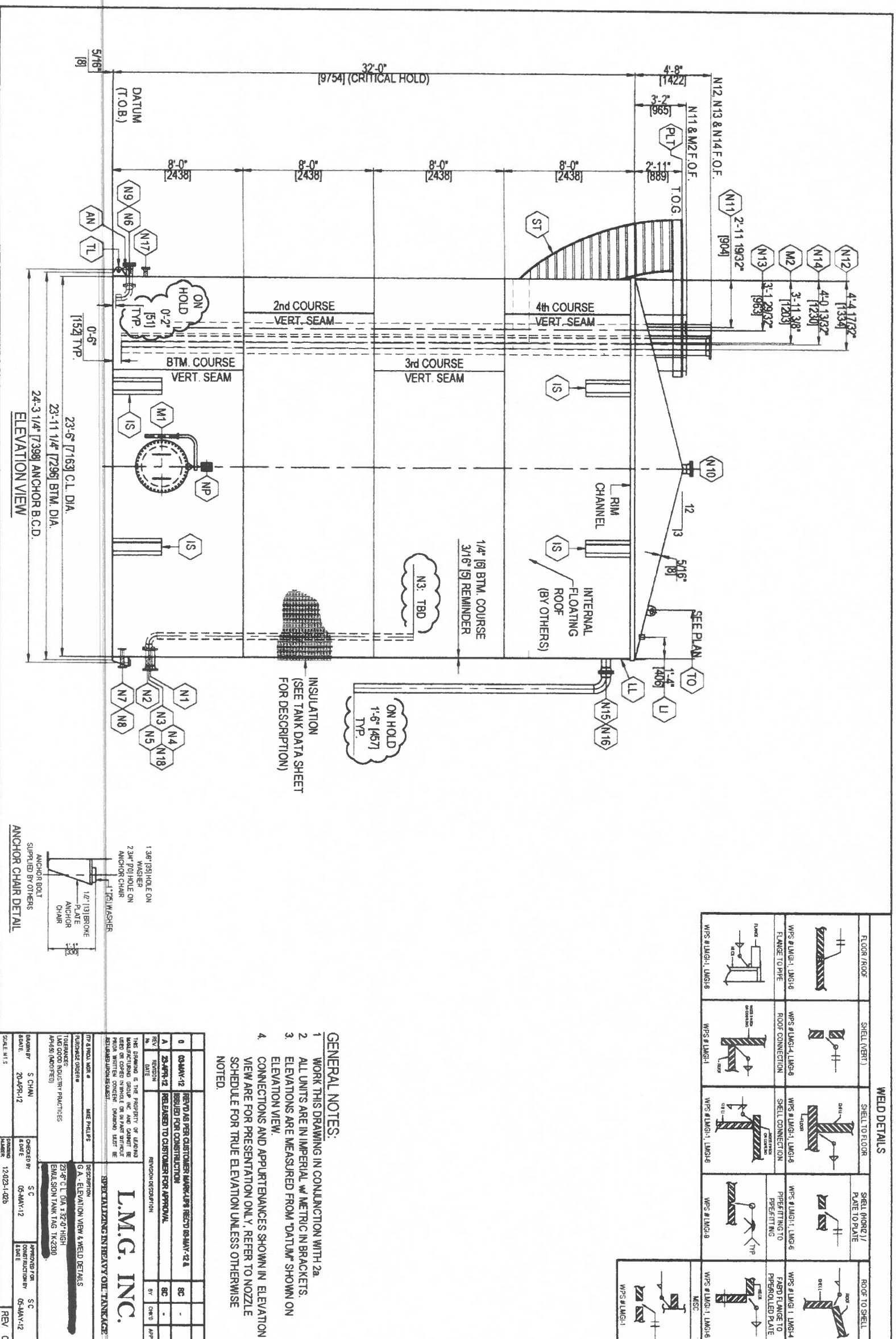
|   |           |
|---|-----------|
| 0 | 06-MAY-12 |
|---|-----------|

| TANGENTIAL NOZZLE ARC LENGTHS |                 |                  |  |
|-------------------------------|-----------------|------------------|--|
| NO                            | REF ORIENTATION | REF ARC LENGTH   |  |
| N4                            | 6.49°           | 1-3.1287 (408)   |  |
| N2                            | 13.08°          | 2-8.5267 (817)   |  |
| N7                            | 65.12°          | 17-5.2127 (8325) |  |
| N8                            | 94.88°          | 1-0° (381)       |  |
| N1                            | 346.94°         | 15-9.127 (4814)  |  |
| N3                            | 353.51°         | 17-1.1116 (8225) |  |

| TAG |                | DIMENSION |  |
|-----|----------------|-----------|--|
| A   | 1-3.1287 (408) |           |  |
| B   | 0-2.12 (191)   |           |  |
| C   | 1-0° (381)     |           |  |

| NO   | QTY | SIZE | CLASS | TYPE | SCH | O.S.P. | I.S.P. | SERVICE DESCRIPTION                                                              | ATTACHMENTS | ELEVATION<br>(FROM BULK) | SHT<br>NO |
|------|-----|------|-------|------|-----|--------|--------|----------------------------------------------------------------------------------|-------------|--------------------------|-----------|
| N1   | 1   | 6"   | 150   | RFWN | XS  |        |        | 2.34" HOLE ON ANCHOR CHAIR & 1.38" HOLE ON ANCHOR CHAIR WASHER                   | SEE ELEV    | MISC-1                   |           |
| N2   | 1   | 2"   | 150   | RFWN | XS  |        |        | REMOVABLE 89" X 12" PLATFORM ON HANDRAILS                                        | ROOF        | 08                       |           |
| N3   | 1   | 4"   | 150   | RFWN | XS  |        |        | REMOVABLE SPIRAL STAIRWAY                                                        | SEE ELEV    |                          |           |
| N4   | 1   | 4"   | 150   | RFWN | XS  |        |        | CUT OUTS & FLOOR CLIPS FOR FLOATING ROOF CONNECTIONS & 41" 16" CIRCULATION VENTS | SEE ELEV    |                          |           |
| N5   | 1   | 4"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N6   | 1   | 4"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N7   | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N8   | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N9   | 1   | 4"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N10  | 1   | 6"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N11  | 1   | 4"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N12  | 1   | 6"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N13  | 1   | 6"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N14  | 1   | 6"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N15  | 1   | 6"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N16  | 1   | 6"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N17  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N18  | 1   | 6"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N19  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N20  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N21  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N22  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N23  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N24  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N25  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N26  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N27  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N28  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N29  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N30  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N31  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N32  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N33  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N34  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N35  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N36  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N37  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N38  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N39  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N40  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N41  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N42  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N43  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N44  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N45  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N46  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N47  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N48  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N49  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N50  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N51  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N52  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N53  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N54  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N55  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N56  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N57  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N58  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N59  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N60  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N61  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N62  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N63  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N64  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N65  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N66  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N67  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N68  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N69  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N70  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N71  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N72  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N73  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N74  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N75  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N76  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N77  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N78  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N79  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N80  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N81  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N82  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N83  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N84  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N85  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N86  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N87  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N88  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N89  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N90  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N91  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N92  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N93  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N94  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N95  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N96  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N97  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N98  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N99  | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |
| N100 | 1   | 2"   | 150   | RFWN | XS  |        |        |                                                                                  |             |                          |           |

| NOZZLE SCHEDULE |                     |                                                                             |                          |            |  |  |  |  |  |  |
|-----------------|---------------------|-----------------------------------------------------------------------------|--------------------------|------------|--|--|--|--|--|--|
| P               | SERVICE DESCRIPTION | ATTACHMENTS                                                                 | ELEVATION<br>(FROM SURF) | SHT<br>NO. |  |  |  |  |  |  |
| 21              | INLET               | COMBINATION RE-PAID &<br>INTERVAL BREAK FLANGE                              | 2-3.34"<br>[P51]         |            |  |  |  |  |  |  |
| 1               | INLET               | COMBINATION RE-PAID                                                         | 2-1.66"<br>[P51]         |            |  |  |  |  |  |  |
| 21              | OUTLET              | COMBINATION RE-PAID,<br>INTERVAL BREAK FLANGE &<br>INTERVAL REMOVABLE RISER | 2-2.11/16"<br>[P51]      |            |  |  |  |  |  |  |
| 21              | INLET               | COMBINATION RE-PAID &<br>INTERVAL BREAK FLANGE                              | 2-2.11/16"<br>[P51]      |            |  |  |  |  |  |  |
| 2               | OUTLET              | COMBINATION RE-PAID &<br>INTERVAL BREAK FLANGE                              | 2-2.11/16"<br>[P51]      |            |  |  |  |  |  |  |



| WELD DETAILS              |                           |                           |                                    |                                      |
|---------------------------|---------------------------|---------------------------|------------------------------------|--------------------------------------|
| FLOR / ROOF               | SHELL (VERT )             | SHELL TO FLOOR            | SHELL (HORIZ ) /<br>PLATE TO PLATE | ROOF TO SHELL                        |
| <p>WPS # LMG-1, LMG-6</p> | <p>WPS # LMG-4, LMG-6</p> | <p>WPS # LMG-1, LMG-6</p> |                                    | <p>WPS # LMG-1, LMG-6</p>            |
| FLANGE TO PIPE            | ROOF CONNECTION           | SHELL CONNECTION          | PIPE FITTING TO<br>PIPE FITTING    | FABRY FLANGE TO<br>PRESSURIZED PLATE |
| <p>WPS # LMG-1, LMG-6</p> | <p>WPS # LMG-1</p>        | <p>WPS # LMG-1, LMG-6</p> | <p>WPS # LMG-3</p>                 | <p>WPS # LMG-1, LMG-6</p>            |
| MISC.                     |                           |                           |                                    |                                      |
| <p>WPS # LMG-1, LMG-6</p> |                           |                           |                                    |                                      |