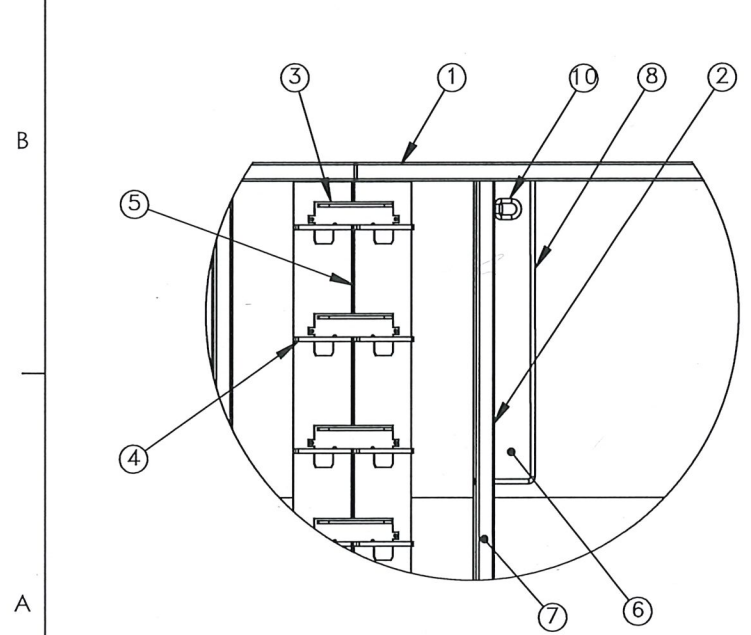
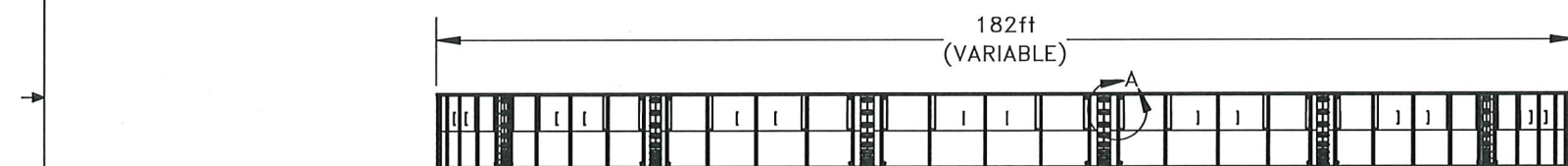
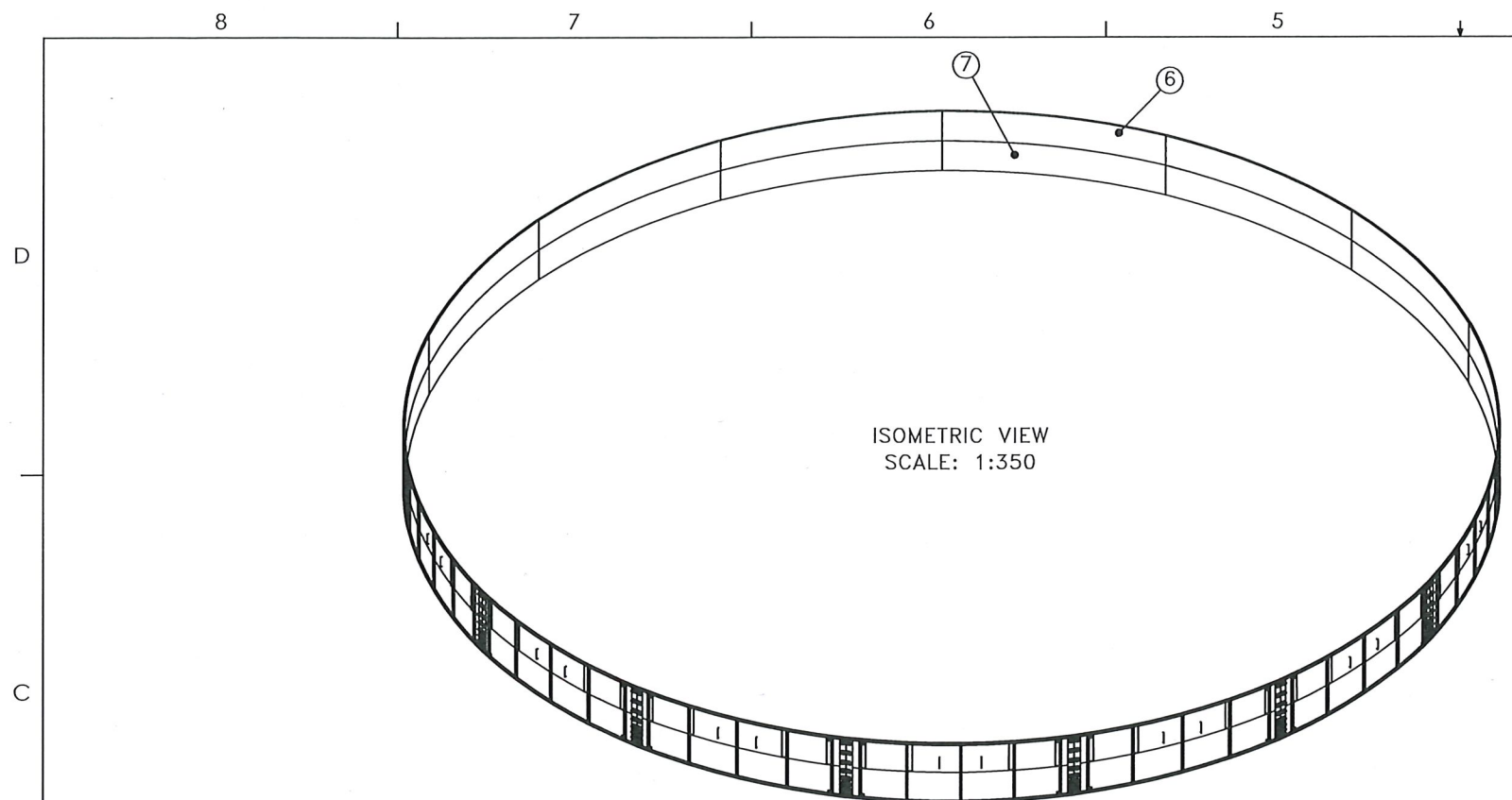
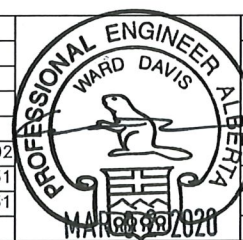




DETAIL A  
SCALE 1 : 40

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|     |                            |            |
|-----|----------------------------|------------|
| 0   | ISSUED FOR CONSTRUCTION    | 2020.03.02 |
| B   | IFB - REPOSITION VERTICALS | 2018.08.31 |
| A   | ISSUED FOR BID             | 2018.05.31 |
| REV | DESCRIPTION                | DATE       |



|                                                                                                             |
|-------------------------------------------------------------------------------------------------------------|
| UNLESS OTHERWISE SPECIFIED:                                                                                 |
| DIMENSIONS ARE IN INCHES                                                                                    |
| TOLERANCES:                                                                                                 |
| FRACTIONAL : 1/8"                                                                                           |
| ANGULAR: MACH : - BEND : -                                                                                  |
| TWO PLACE DECIMAL : 0.01                                                                                    |
| THREE PLACE DECIMAL : 0.002                                                                                 |
| MATERIAL: -                                                                                                 |
| FINISH: -                                                                                                   |
| ENG PERMIT TO PRACTICE #P08147 ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS & GEOPHYSICISTS OF ALBERTA |

|           |      |          |
|-----------|------|----------|
| DRAWN     | NAME | DATE     |
| CHECKED   | KS   | 18.05.31 |
| ENG APPR. | WD   | 18.05.31 |
| MFG APPR. | JK   | 18.05.31 |
| PREPARED: |      |          |

|           |                          |
|-----------|--------------------------|
| CLIENT:   |                          |
| PROJECT:  | VARIABLE SIZE WATER TANK |
| PART:     | GENERAL ARRANGEMENT      |
| DWG. NO.: | E18-215-1000             |
| SCALE:    | DNS                      |
| WEIGHT:   | 120345LBS                |
| SHEET:    | 1 OF 4                   |

| BILL OF MATERIALS |             |      |                 |            |           |
|-------------------|-------------|------|-----------------|------------|-----------|
| ITEM NO.          | PART NUMBER | QTY. | DESCRIPTION     | LENGTH     | MATERIAL  |
| 1                 | 215-1005    | 2    | HSS4x4x1/4      | 455 3/4"   | 350W      |
| 2                 | 215-1006    | 5    | HSS4x4x1/4      | 136"       | 350W      |
| 3                 | 215-1008    | 8    | PL1x9           | 19 9/16"   | QT100     |
| 4                 | 215-1004    | 16   | PL1x4           | 12 1/2"    | QT100     |
| 5                 | 215-1003    | 2    | PL5/8x12 1/2    | 135 13/16" | 300W      |
| 6                 | 215-1001    | 1    | PL3/16x72       | 455 5/8"   | 300W      |
| 7                 | 215-1002    | 1    | PL3/8x72        | 455 5/8"   | 300W      |
| 8                 | 215-1007    | 4    | BAR 1Ø          | 80 3/16"   | AISI 1020 |
| 9                 | 215-1009    | 2    | BAR 1/2Ø        | 29 1/16"   | AISI 1020 |
| 10                | 215-1010    | 4    | D-RING ASSEMBLY | N/A        | 300W      |

NOTE: BOM QTY. ARE FOR ONE PANEL ONLY, SEVERAL PANELS ARE NEEDED TO BUILD ONE TANK.

#### GENERAL NOTES:

- THE WATER TANK HAS BEEN DESIGNED IN ACCORDANCE WITH THE ALBERTA BUILDING CODE.
- ALL STRUCTURAL STEEL MEMBERS HAVE BEEN DESIGNED IN ACCORDANCE WITH CAN/CSA-S16-09-"LIMIT STATES DESIGN OF STEEL STRUCTURE".
- ALL STRUCTURAL STEEL SHALL CONFORM TO CSA STANDARD G40.21-M92.
  - HSS 350W
  - PLATE 300W
  - BAR 350W
- FABRICATION SHALL CONFORM TO CAN/CSA S16-09.
- ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS IN COMPLIANCE WITH CSA STANDARD W47.1-2009 AND IN ACCORDANCE WITH CSA STANDARD W59-13.
- UNLESS OTHERWISE STATED ALL CONNECTONS ARE TO BE 3/16" ALL-AROUND FILLET WELDS.

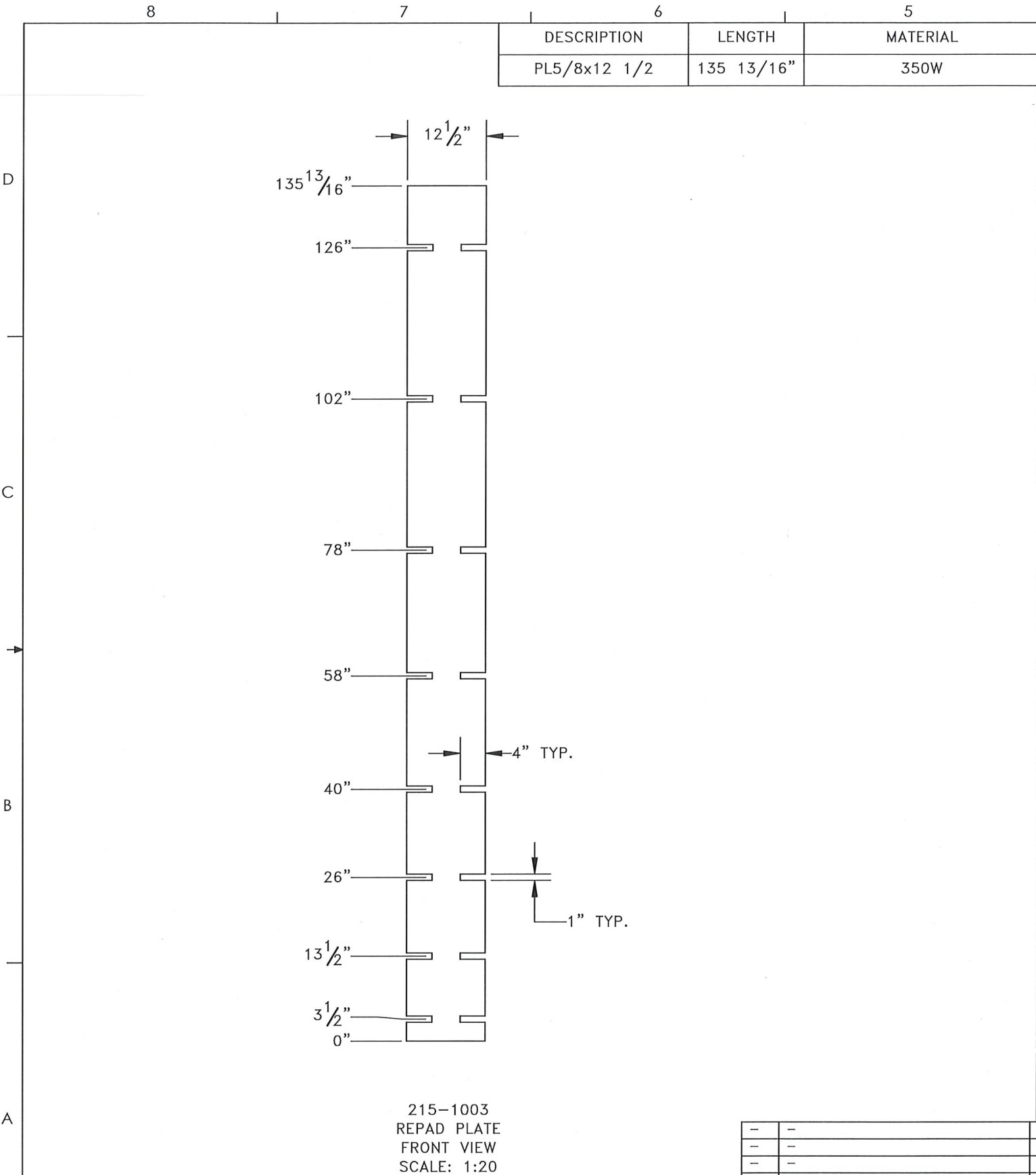
#### ASSEMBLY NOTES:

- ASSEMBLE WITH ADDITIONAL BRACING AND STABILITY AS REQUIRED.
- TANK IS TO BE SUPPORTED BY SOUND, LEVEL FOOTING.
- PANELS ARE TO BE HOISTED WITH THE DESIGNATED LIFTING BARS, ENSURE HOOK PLACEMENT NEAR THE TOP RAIL.
- TANK IS TO BE USED IN COMPLIANCE WITH DIRECTIVE 55 ADDENDUM OR IN ACCORDANCE WITH LOCAL JURISDICTION.

#### SPECIFICATIONS:

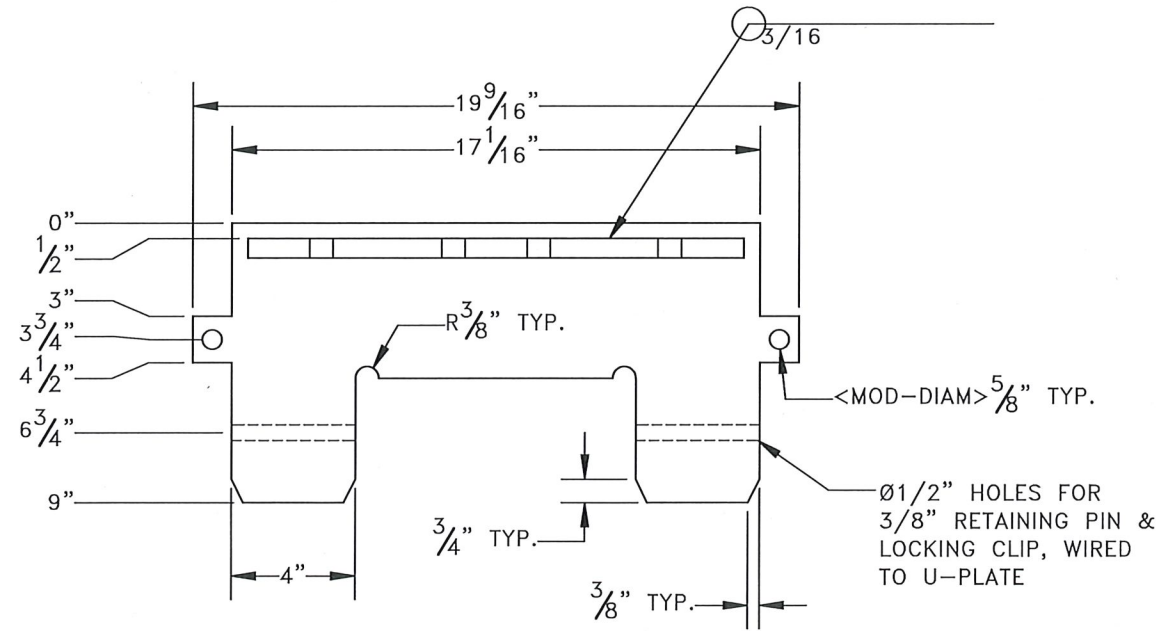
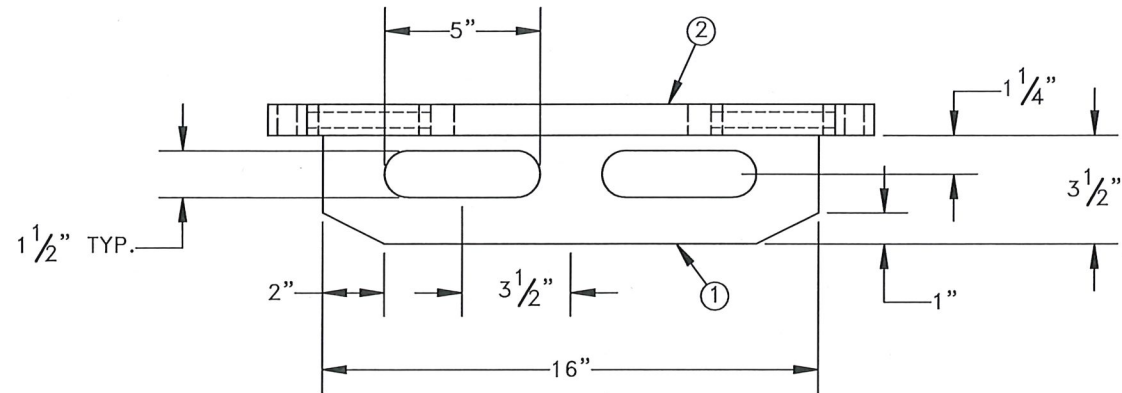
- VARIABLE DIAMETER ABOVE GROUND STORAGE TANK IS RATED FOR 13 TO 17 PANELS ASSEMBLIES FOR FLUIDS UP TO 1.15 SPECIFIC GRAVITY 11,000 M<sup>3</sup> NOMINAL CAPACITY.
  - RATED UP TO 18 PANELS ASSEMBLY AT 1.05 SPECIFIC GRAVITY.





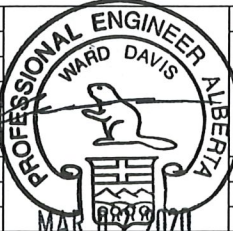
| DESCRIPTION  | LENGTH     | MATERIAL |
|--------------|------------|----------|
| PL5/8x12 1/2 | 135 13/16" | 350W     |

| ITEM NO. | QTY. | DESCRIPTION | LENGTH   | MATERIAL |
|----------|------|-------------|----------|----------|
| 1        | 1    | PL5/8x3 1/2 | 16"      | QT100    |
| 2        | 1    | PL1x9       | 19 9/16" | QT100    |



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DIMENSIONS ARE IN INCHES  
TOLERANCES:  
FRACTIONAL : 1/8"  
ANGULAR: MACH : - BEND : -  
TWO PLACE DECIMAL : 0.01  
THREE PLACE DECIMAL : 0.002  
MATERIAL: -  
FINISH: -  
ENG. PERMIT TO PRACTICE #P08147 ASSOCIATION OF  
PROFESSIONAL ENGINEERS, GEOLOGISTS & GEOPHYSICISTS OF ALBERTA

| NAME         | DATE     |
|--------------|----------|
| DRAWN KS     | 18.05.31 |
| CHECKED WD   | 18.05.31 |
| ENG APPR. JK | 18.05.31 |
| MFG APPR. -  | -        |
| PREPARED:    |          |

|                                   |                                   |               |
|-----------------------------------|-----------------------------------|---------------|
| CLIENT:                           | <b>HYDRERA</b><br>ENERGY SERVICES |               |
| PROJECT: VARIABLE SIZE WATER TANK |                                   |               |
| PART: PARTS DETAILS 1             |                                   |               |
| DWG. NO.: E18-215-1000            | REV 0                             |               |
| SCALE: DNS                        | WEIGHT: -                         | SHEET: 3 OF 4 |



