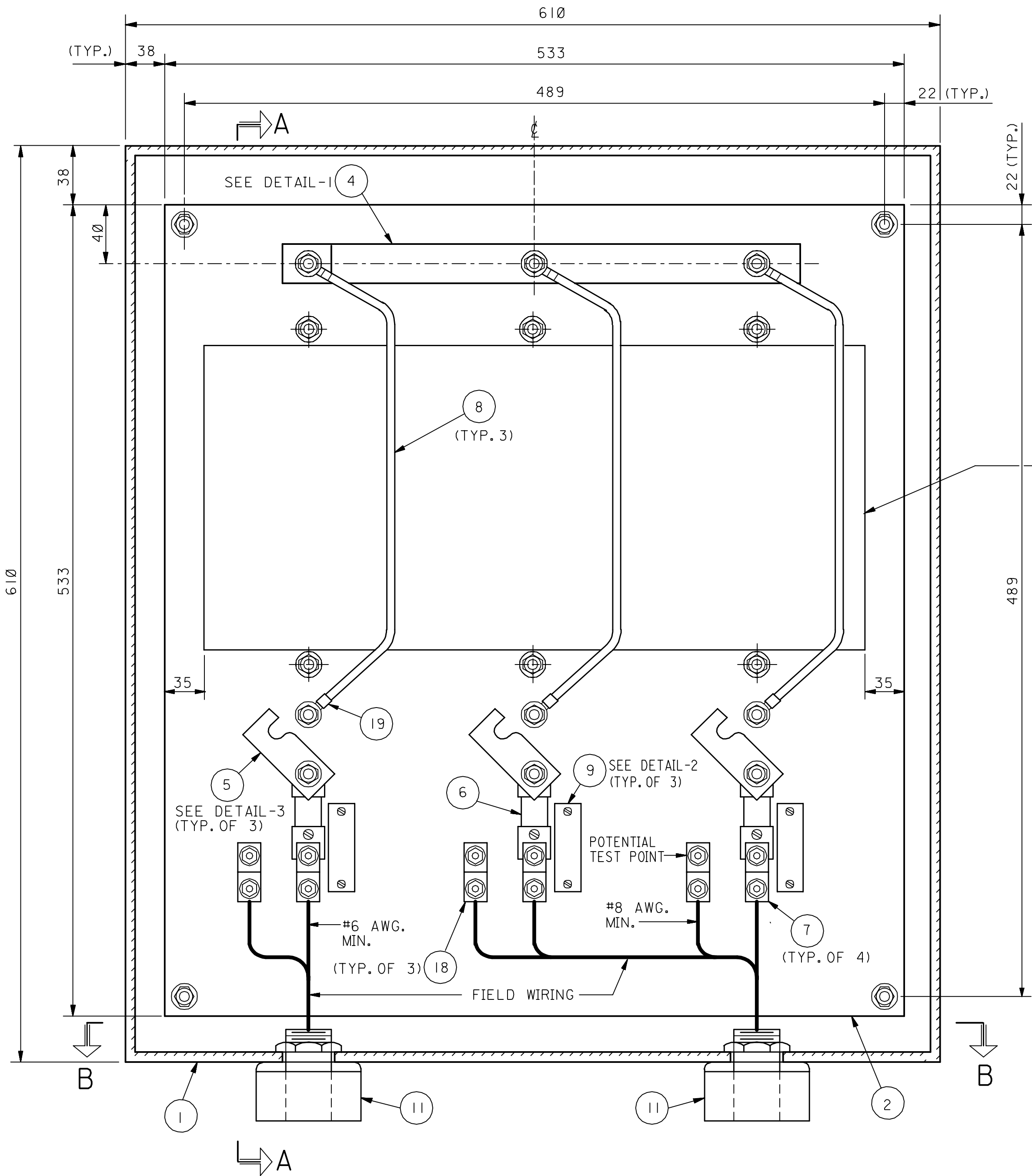
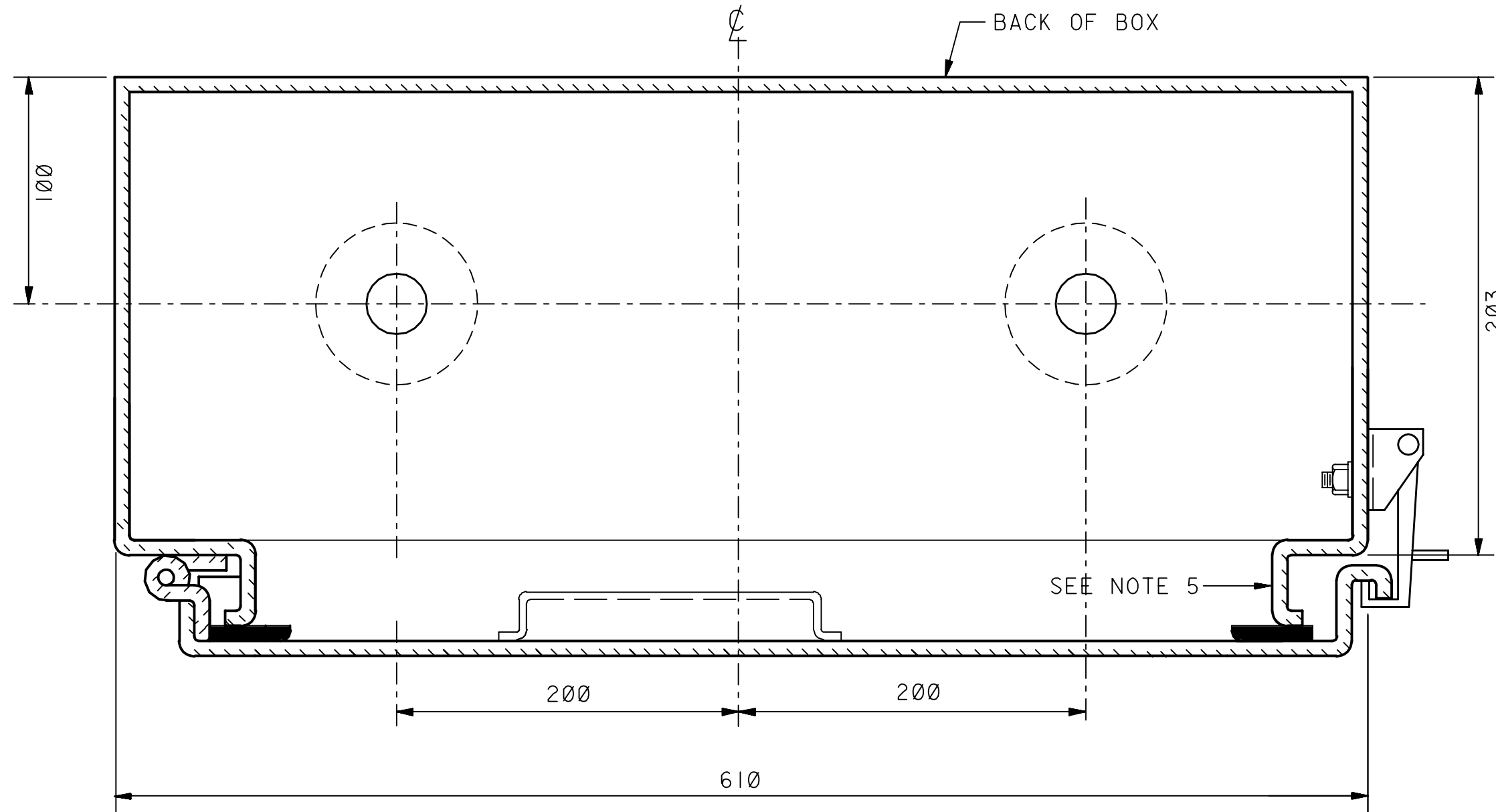


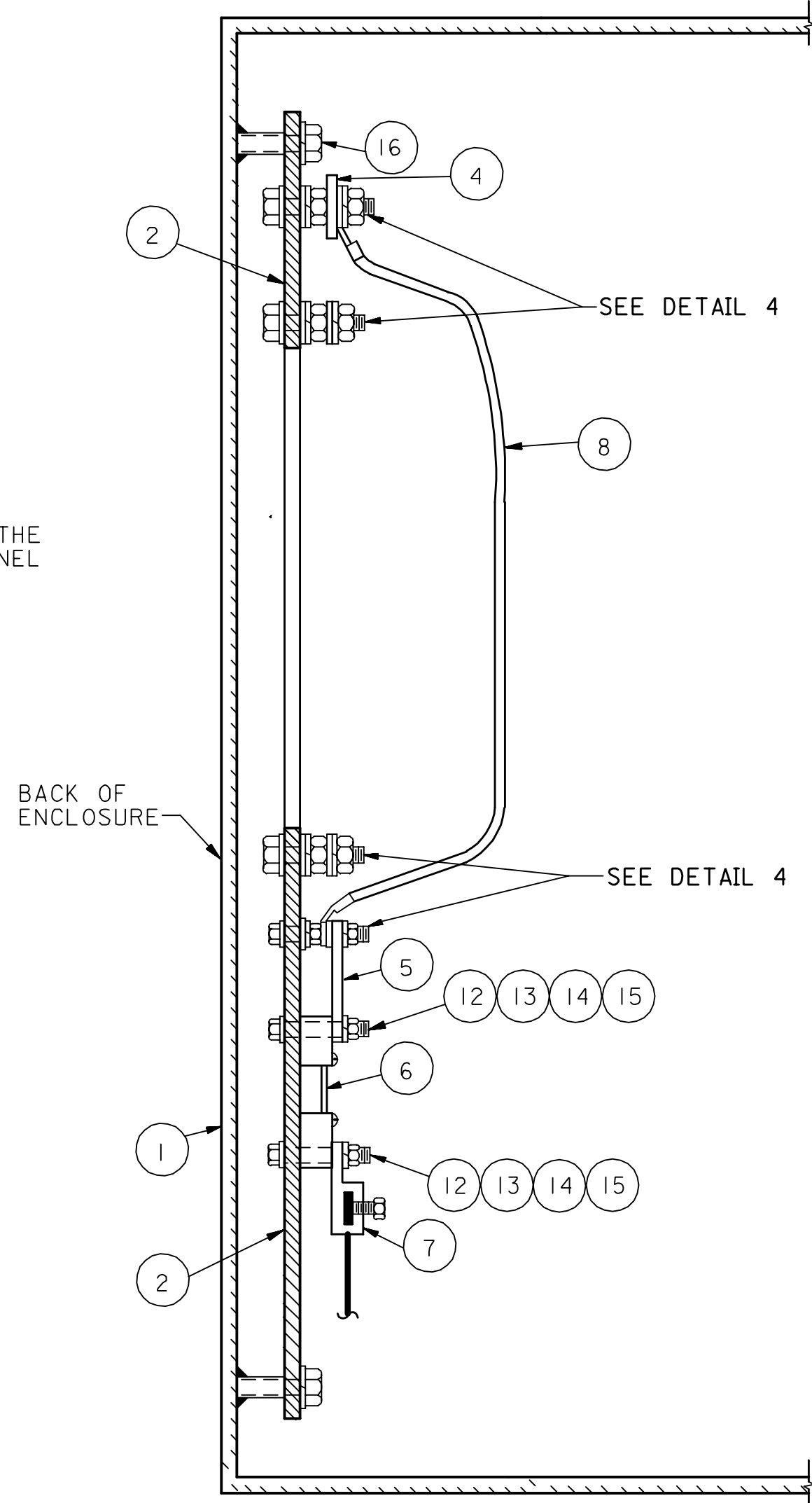
|              |          |          |           |       |                |
|--------------|----------|----------|-----------|-------|----------------|
| 90           | 001      | 00       | 990       | X     | AA-036349      |
| ON, REV. NO. | REV. NO. | SHT. NO. | PLANT NO. | INDEX | DRAWING NUMBER |



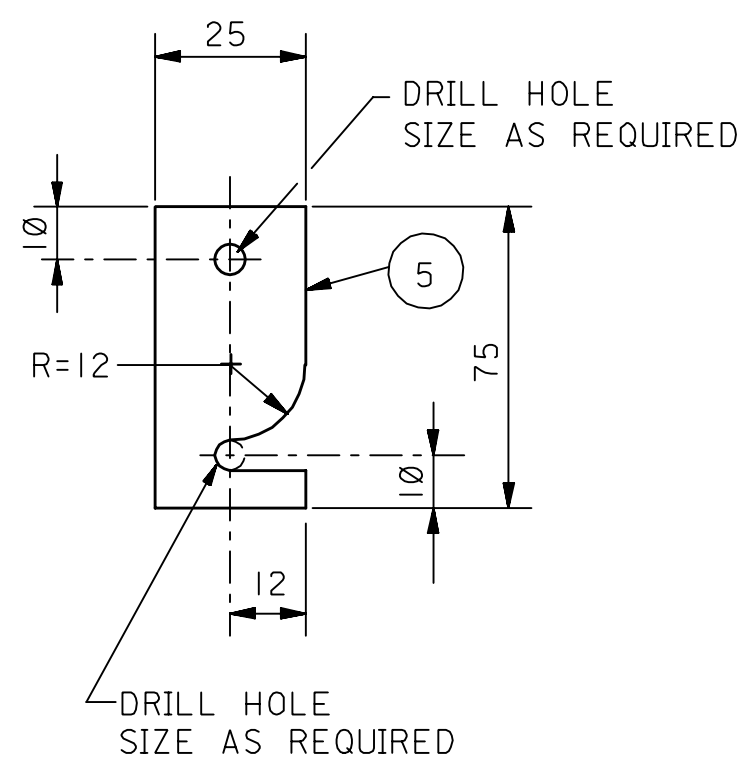
FRONT VIEW OF ENCLOSURE  
(WITHOUT DOOR)



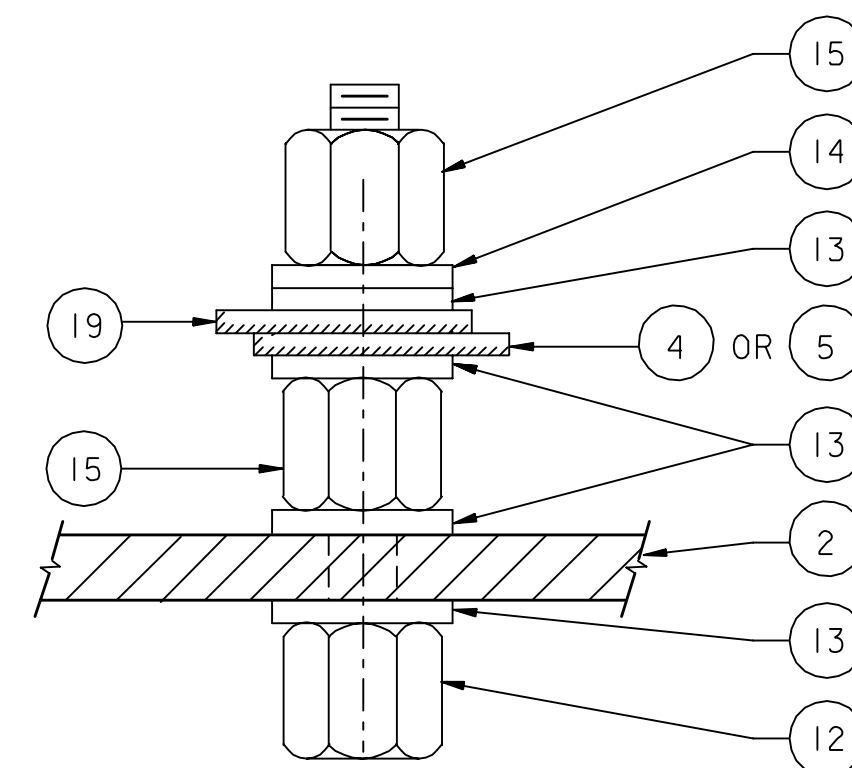
SECTION B-B



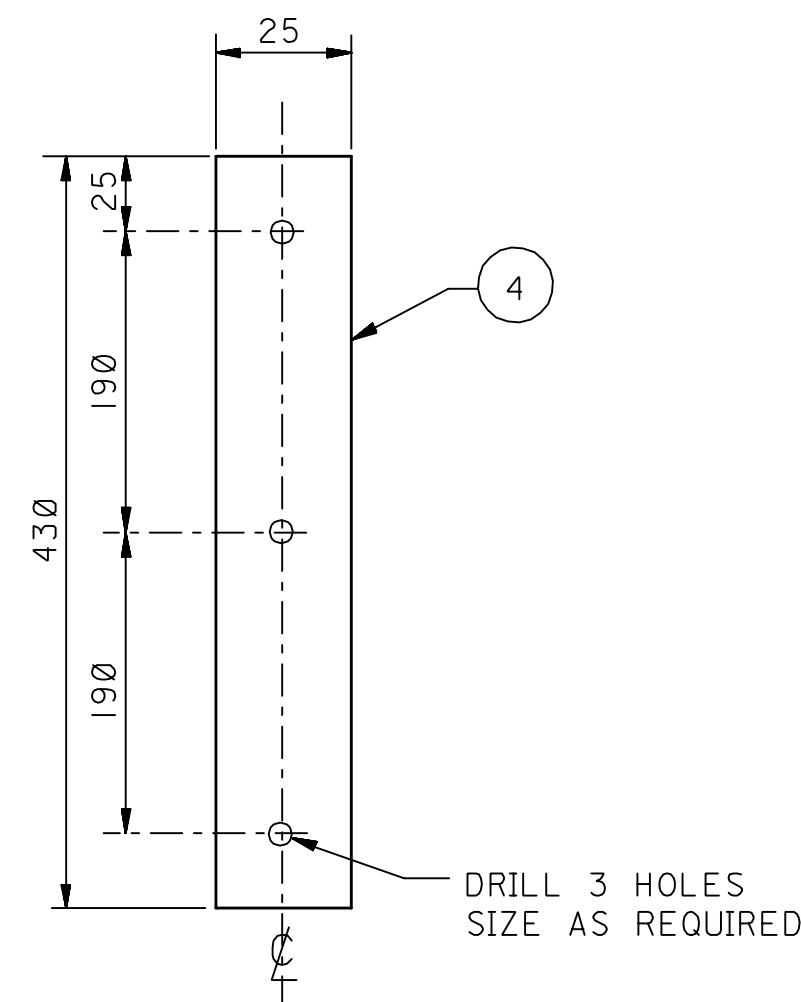
SECTION A-A



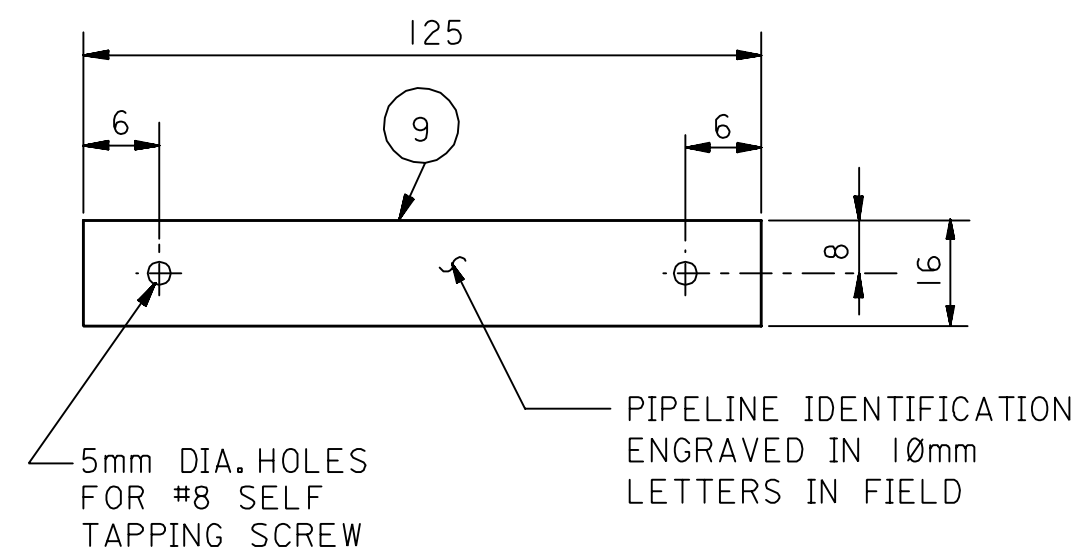
DETAIL - 3



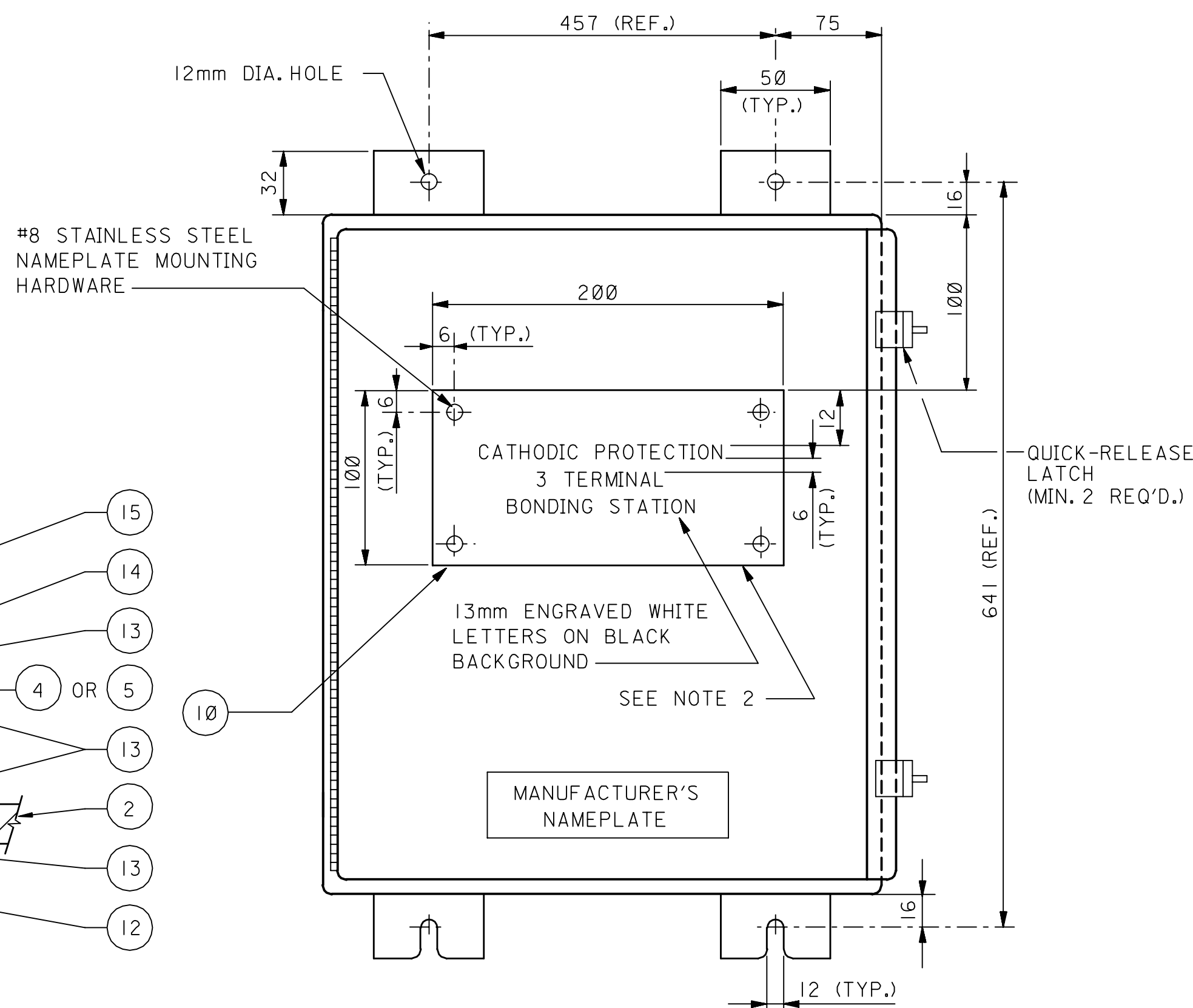
DETAIL - 4



DETAIL - 1  
(1 REQUIRED)



PIPELINE IDENTIFICATION NAMEPLATE  
DETAIL - 2



OUTSIDE NAMEPLATE AND  
MOUNTING EARS DETAIL

NOTES:

1. THE ENCLOSURE SHALL BE IN ACCORDANCE WITH MATERIAL SPECIFICATION 17-SAMSS-008.
2. DUPLICATE NAMEPLATE SHALL BE MOUNTED ON THE INSIDE OF THE ENCLOSURE DOOR.
3. 13mm ENGRAVED BLACK LETTERS ON WHITE BACKGROUND MAY ALSO BE USED.
4. ITEM 1 (ONE) FOR CLASSIFIED AREAS SHOULD BE AS PER PURCHASE ORDER SPECIFICATIONS.
5. DRIP PROOF CONSTRUCTION SHOWN IS PREFERRED BUT NOT MANDATORY.
6. THIS BOND BOX MAY BE USED FOR BONDING OF UP TO 3 STRUCTURES.
7. THIS BOND BOX IS AVAILABLE IN ALUMINUM THROUGH SAMSS UNDER S/N 1000073600 AS A COMPLETE ASSEMBLY.
8. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
9. FOR MOUNTING SUPPORT DETAILS REFER TO STANDARD DRAWING AB-036540.
10. PROVISIONS FOR RESISTOR (ITEM 3) IS MADE IN JUNCTION BOX. IF RESISTOR IS REQUIRED, IT IS AVAILABLE FROM THE JUNCTION BOX MANUFACTURER AS A DIRECT CHARGE (DC) ITEM. USE DESCRIPTION OF ITEM 3 AND MOUNTING DIMENSIONS SHOWN ON THIS DRAWING WHEN ORDERING.
11. ALL BRASS HARDWARE SHALL BE 1/4"-20 MINIMUM SIZE.
12. ZINC CONTENT OF BRASS HARDWARE SHALL NOT EXCEED 16%.
13. FOR NON-METALLIC BOXES ANY METAL HARDWARE SHALL BE 300 SERIES STAINLESS STEEL.
14. IF THE ENCLOSURE IS NOT UL LISTED AND CERTIFIED TO NEMA 4X, THE DESIGN OF THE ENCLOSURE MUST BE APPROVED IN WRITING BY THE RSA FOR CATHODIC PROTECTION MATERIALS.

MATERIAL LIST

| DWG. CODE | DESCRIPTION                                                                                                                                                  |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1         | ENCLOSURE: ALUMINUM NEMA 4X; 610 x 610 x 203                                                                                                                 |
| 2         | PANEL: BLACK BAKELITE; 533 x 533 x 6                                                                                                                         |
| 3         | RESISTOR: 0.56 OHM; 400 WATTS; 7 FIXED CONTINUOUSLY WELDED TAPS, WOUND ON CERAMIC INSULATORS, WITH BOLT ON WIRING TERMINALS AND BRASS HARDWARE. SEE NOTE 10. |
| 4         | BUS BAR: TIN PLATED COPPER; 430 x 25 x 3                                                                                                                     |
| 5         | LINK BAR: TIN PLATED COPPER; 75 x 25 x 3                                                                                                                     |
| 6         | SHUNT: 50 AMPERE; 50 MV; ±2%                                                                                                                                 |
| 7         | CABLE LUG: 16mm <sup>2</sup> TO 70mm <sup>2</sup> (#6 AWG TO 2/0 AWG) BURNDY TYPE QA OR EQUIVALENT                                                           |
| 8         | WIRE: COPPER; NO. 8 AWG.; STRANDED; 600V; TYPE THHN; BLACK                                                                                                   |
| 9         | NAMEPLATE: 125 x 16 x 3; LAMINATED BAKELITE; BLACK LETTERS ON WHITE BACKGROUND                                                                               |
| 10        | NAMEPLATE: 200 x 100 x 3; LAMINATED BAKELITE; WHITE LETTERS ON BLACK BACKGROUND                                                                              |
| 11        | CONDUIT HUB: WEATHER PROOF; ALUMINUM; 2"                                                                                                                     |
| 12        | BOLT: BRASS; HEX. HD.; SIZE AS REQUIRED                                                                                                                      |
| 13        | WASHER: FLAT; BRASS; SIZE AS REQUIRED                                                                                                                        |
| 14        | LOCK WASHER: SPRING; PHOSPHOR BRONZE; SIZE AS REQUIRED                                                                                                       |
| 15        | NUT: HEX. HD.; BRASS; SIZE AS REQUIRED                                                                                                                       |
| 16        | PANEL MOUNTING HARDWARE: SIZE AS REQUIRED                                                                                                                    |
| 17        | SCREW: SELF TAPPING; CADMIUM PLATED; NO. 8 x 1/2"                                                                                                            |
| 18        | WIRE LUG: SOLDERLESS; SCREW TYPE, FOR #8 AWG. WIRE                                                                                                           |
| 19        | CABLE LUG: FOR NO. 8 AWG CABLE-COMPRESSION TYPE.                                                                                                             |

REFERENCE DRAWINGS

|                          |           |
|--------------------------|-----------|
| MOUNTING SUPPORT DETAILS | AB-036540 |
|--------------------------|-----------|

DRAWING RESPONSIBILITY:  
CATHODIC PROTECTION STD. COMMITTEE

| REV. NO. | DATE  | BY   | JO/ENQ | DESCRIPTION                                                            | CHKD.        | CERT.        | APPD.        |
|----------|-------|------|--------|------------------------------------------------------------------------|--------------|--------------|--------------|
| 08       | DCT98 | EDSD | WED    | REVISED SECTION A-A, DETAIL 4 AND NOTES                                | ORIG. SIGNED | ORIG. SIGNED | ORIG. SIGNED |
| 07       | MAY94 | ESSD | ROR    | REVISED TITLE, NOTE 6, MATERIAL LIST AND ADDED NUT & MAT'L DWG. CODES. | ORIG. SIGNED | ORIG. SIGNED | ORIG. SIGNED |
| 06       | JAN93 | ESSD | DTT    | GENERAL REVISION                                                       | ORIG. SIGNED | ORIG. SIGNED | ORIG. SIGNED |
| 09       | SEP03 | CSD  | MNL    | REDRAWN AND REVISED, CHNG'D INDEX FROM P TO X; ADDED MANDATORY NOTE.   |              |              |              |

SAUDI ARABIAN OIL COMPANY

|                    |                 |             |
|--------------------|-----------------|-------------|
| DRAWN BY: JBS      | CHECKED BY:     | SCALE: NONE |
| DATE STARTED:      | DATE COMPLETED: |             |
| OPR'G. DEPT.:      | ENG. DEPT.:     |             |
| APP'D. FOR CONST.: |                 |             |

|                                                                                                    |                     |
|----------------------------------------------------------------------------------------------------|---------------------|
| THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION OR FOR ORDERING MATERIAL UNTIL CERTIFIED AND DATED | CERTIFIED BY: DATE: |
|----------------------------------------------------------------------------------------------------|---------------------|

CATHODIC PROTECTION  
BOND BOX - 3 TERMINALS

| PLANT NO. | INDEX | DRAWING NUMBER | SHT. NO. | REV. NO. |
|-----------|-------|----------------|----------|----------|
| 990       | X     | AA-036349      | 001      | 09       |