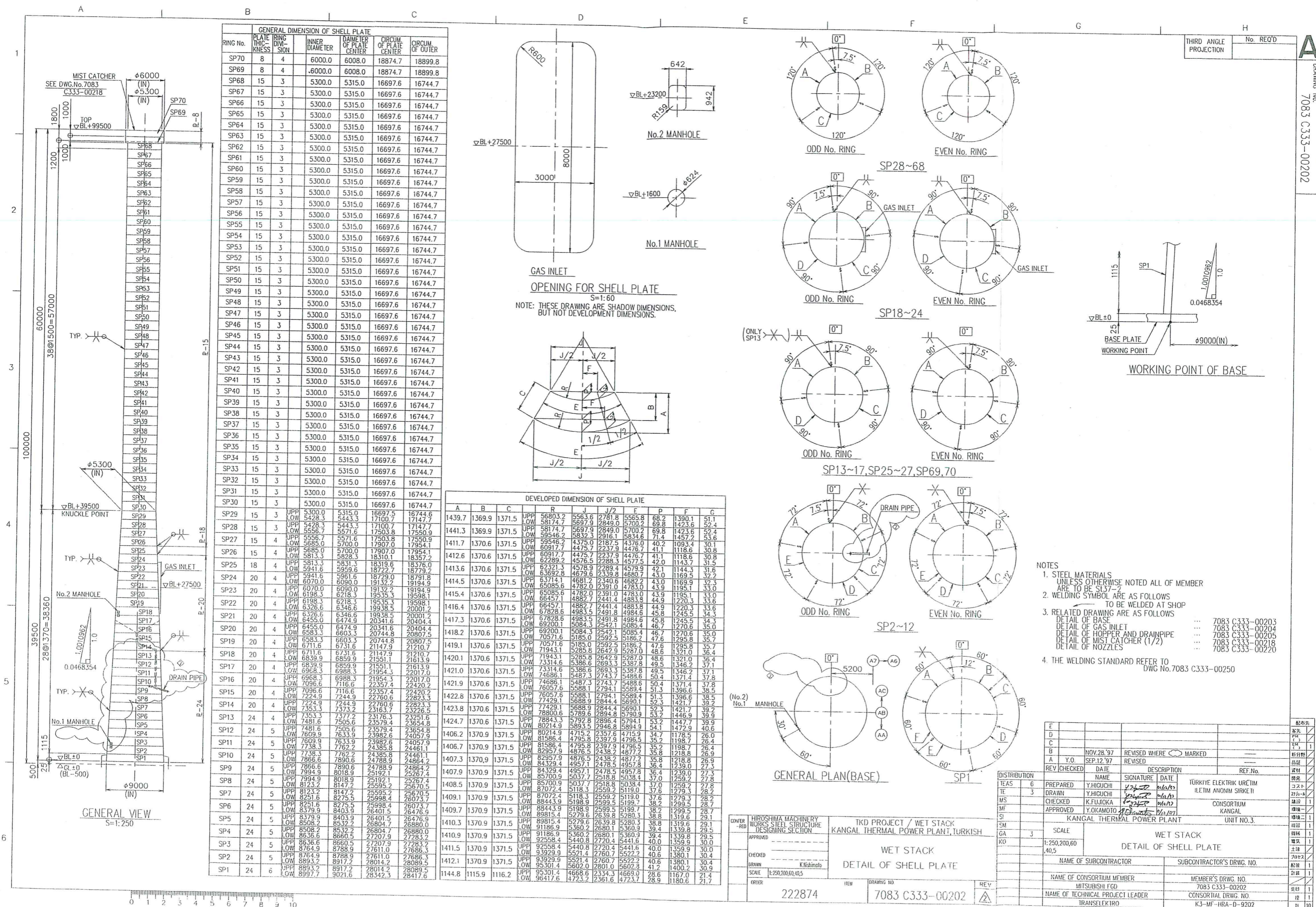


- NOTES
- MATERIALS
    - STRUCTURAL STEEL ... DIN 17100S137-2
    - CHECKERED STEEL PLATE ... DIN 17100S137-2
    - HIGH STRENGTH BOLT ... DIN 6914, quality 10.9
    - COMMON BOLT ... Equivalent DIN norms, quality 5.6
    - GRATING ... DIN 17100S137-2
    - WELDING ELECTRODE ... AWS A5.18 ER70
    - STAINLESS STEEL BOLT ... ASTM A1-50
    - STEEL PIPE ... DIN 2440
    - HANDRAIL ... DIN 17100S137-2
    - DRAIN PIPE ... SUS317LTP

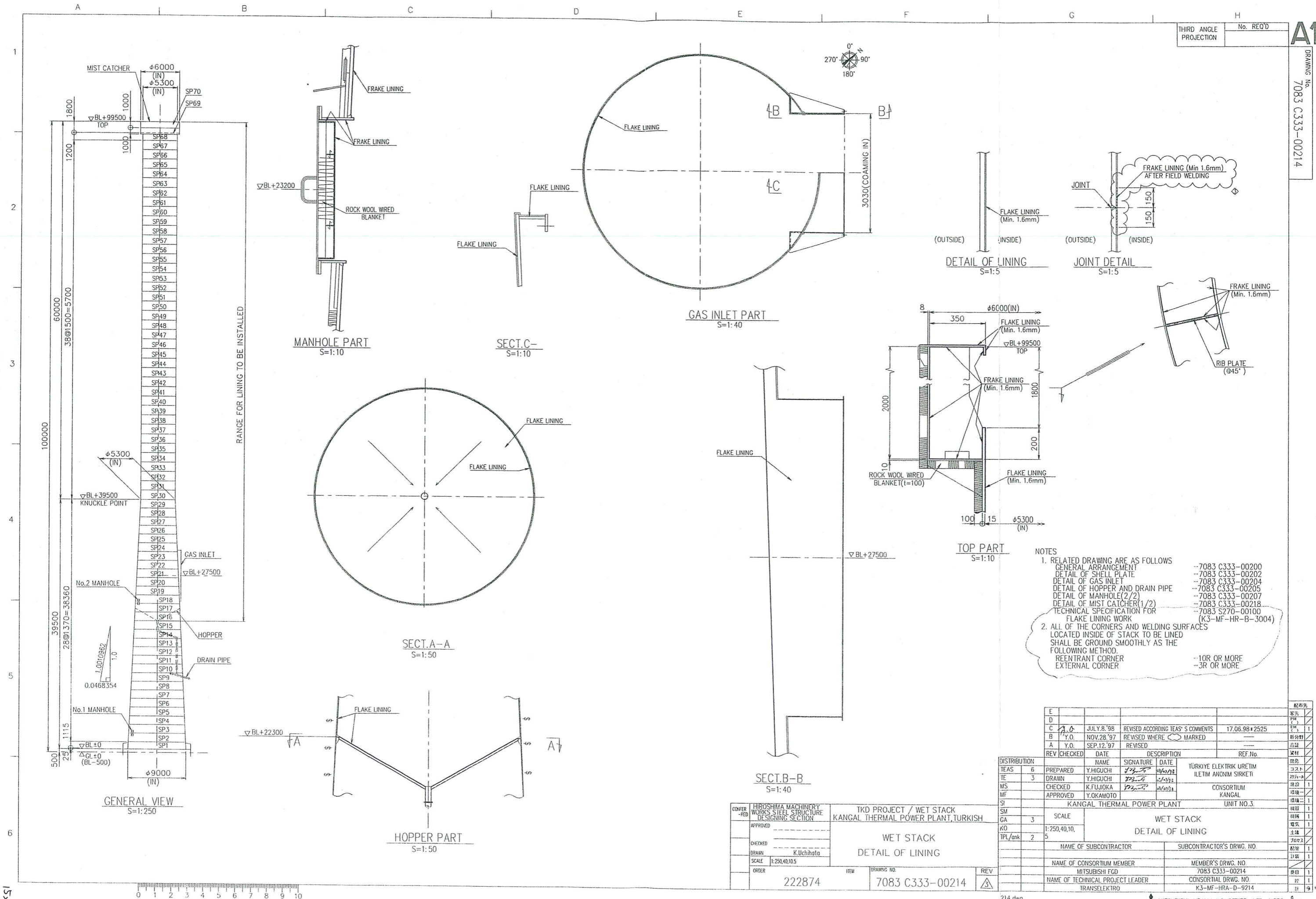
| REV | CHECKED    | DATE       | DESCRIPTION | REF. No. |
|-----|------------|------------|-------------|----------|
| 1   | Y. OKAMOTO | 2000.05.28 | REVIS       |          |
| 2   | Y. OKAMOTO | 2000.05.28 | REVIS       |          |
| 3   | Y. OKAMOTO | 2000.05.28 | REVIS       |          |
| 4   | Y. OKAMOTO | 2000.05.28 | REVIS       |          |
| 5   | Y. OKAMOTO | 2000.05.28 | REVIS       |          |
| 6   | Y. OKAMOTO | 2000.05.28 | REVIS       |          |
| 7   | Y. OKAMOTO | 2000.05.28 | REVIS       |          |
| 8   | Y. OKAMOTO | 2000.05.28 | REVIS       |          |
| 9   | Y. OKAMOTO | 2000.05.28 | REVIS       |          |
| 10  | Y. OKAMOTO | 2000.05.28 | REVIS       |          |

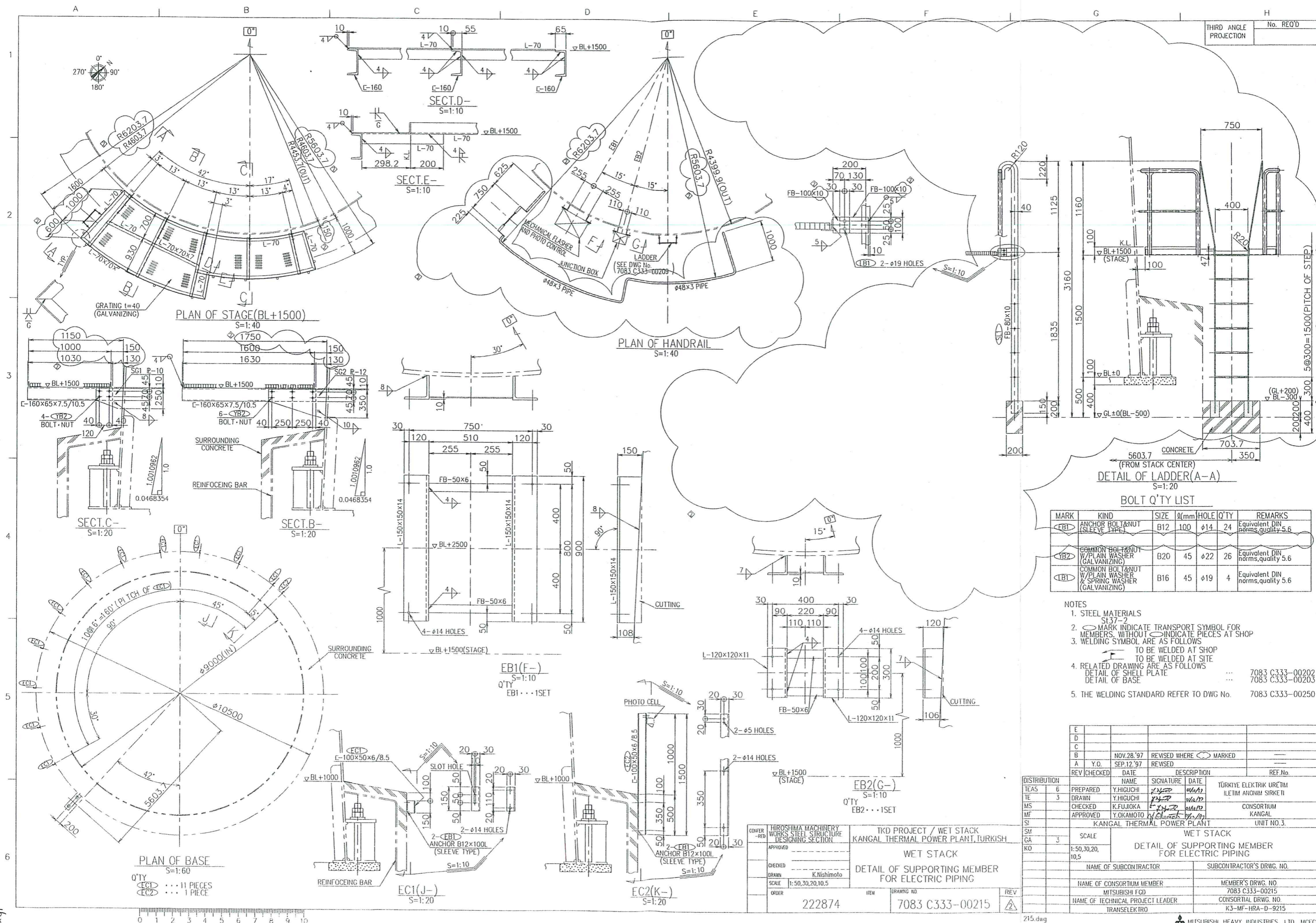
| TEAS   | 6 | PREPARED | Y. HIGUCHI | DATE | 2000.05.28 | TURKIYE ELEKTRIK URETİM İLETİM ANONİM ŞİRKETİ |
|--------|---|----------|------------|------|------------|---|
| TE     | 3 | DRAWN    | Y. HIGUCHI | DATE | 2000.05.28 |   |
| MS     |   | CHECKED  | K. FUJIOKA | DATE | 2000.05.28 | CONSORTIUM KANGAL                             |
| MF     |   | APPROVED | Y. OKAMOTO | DATE | 2000.05.28 | UNIT NO.3.                                    |
| SI     |   |          |            |      |            |   |
| SM     |   |          |            |      |            |   |
| GA     | 3 |          |            |      |            |   |
| KO     |   |          |            |      |            |   |
| TP/ank | 2 |          |            |      |            |   |

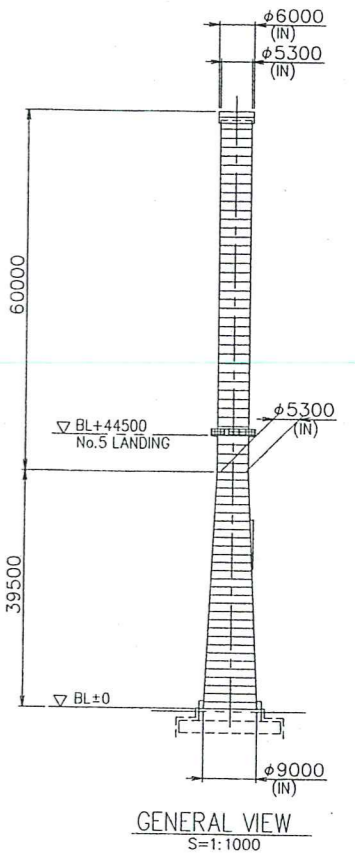
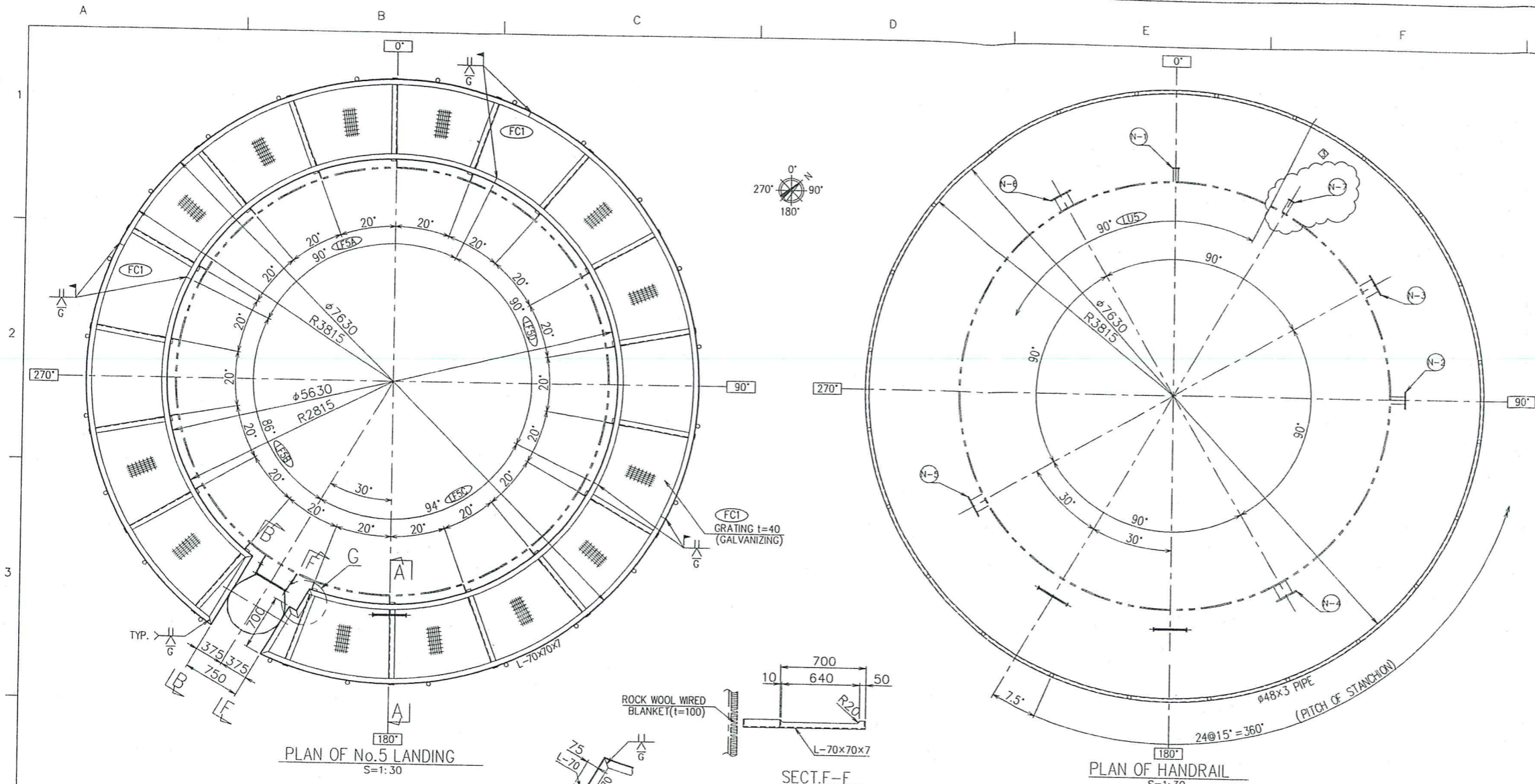
| NAME OF SUBCONTRACTOR            | SUBCONTRACTOR'S DRWG. NO. |
|----------------------------------|---------------------------|
|                                  |                           |
| NAME OF CONSORTIUM MEMBER        | MEMBER'S DRWG. NO.        |
| MITSUBISHI FGD                   | 7083 C333-00200           |
| NAME OF TECHNICAL PROJECT LEADER | CONSORTIUM DRWG. NO.      |
| TRANSELEKTRİG                    | K3-MF-HRA-D-9200          |











GENERAL VIEW  
S=1:1000

PLAN OF No.5 LANDING  
S=1:30

PLAN OF HANDRAIL  
S=1:30

DETAIL OF G-  
S=1:20

SECT.F-F  
S=1:20

SECT.B-B  
S=1:20

SECT.A-A  
S=1:20

BOLT Q'TY LIST

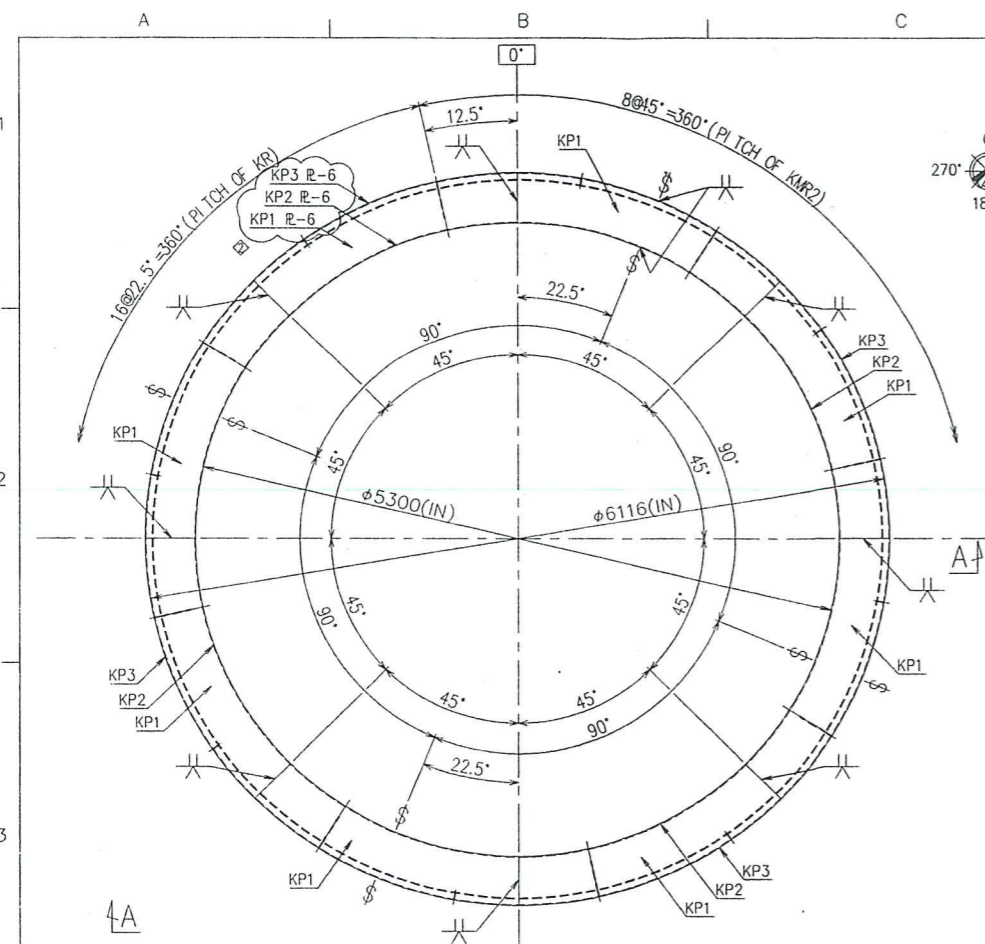
| MARK | KIND  | SIZE | Ø(mm) | HOLE | Q'TY | REMARKS                           |
|------|---|------|-------|------|------|-----------------------------------|
| YB2  | COMMON BOLT&NUT WITH PLAIN WASHER (GALVANIZING) | B20  | 45    | Ø22  | 72   | Equivalent DIN norms, quality 5.6 |

NOTES

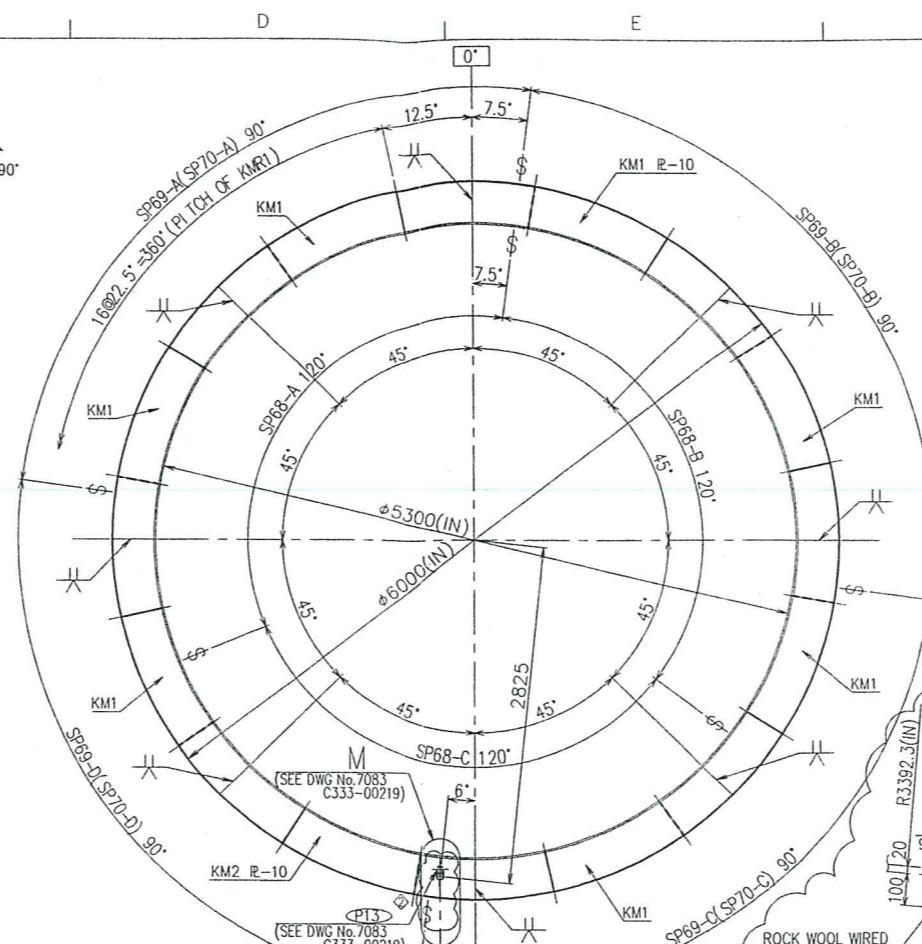
- STEEL MATERIALS  
S137-2
- MARKS INDICATE TRANSPORT SYMBOL FOR MEMBERS. MARKS WITHOUT INDICATE PIECES AT SHOP
- WELDING SYMBOL ARE AS FOLLOWS  
 TO BE WELDED AT SHOP  
 TO BE WELDED AT SITE
- RELATED DRAWING ARE AS FOLLOWS  
DETAIL OF SHELL PLATE ... 7083 C333-00202  
DETAIL OF LADDER AND LANDING(1/3) ... 7083 C333-00209  
DETAIL OF NOZZLES ... 7083 C333-00220
- THE WELDING STANDARD REFER TO DWG No.7083 C333-00250

| REV                              | CHECKED | DATE       | DESCRIPTION           | REF.No.   |
|----------------------------------|---------|------------|-----------------------|-----------|
| E                                |         |            |                       |           |
| D                                |         |            |                       |           |
| C                                |         | SEP.21.'98 | REVISED WHERE  MARKED | TKD-P-052 |
| B                                |         | NOV.28.'97 | REVISED WHERE  MARKED |           |
| A                                |         | SEP.12.'97 | REVISED               |           |
| REV                              | CHECKED | DATE       | DESCRIPTION           | REF.No.   |
| TEAS                             | 6       | PREPARED   | Y.HIGUCHI             | 4/1/01    |
| TE                               | 3       | DRAWN      | Y.HIGUCHI             | 4/1/01    |
| MS                               |         | CHECKED    | K.FUJIOKA             | 4/1/01    |
| MF                               |         | APPROVED   | Y.OKAMOTO             | 4/1/01    |
| SI                               |         |            |                       |           |
| SM                               |         |            |                       |           |
| GA                               | 3       | SCALE      |                       |           |
| KO                               |         | 1:40,20    |                       |           |
| TPL/ank                          | 2       |            |                       |           |
| NAME OF SUBCONTRACTOR            |         |            |                       |           |
| SUBCONTRACTOR'S DRWG. NO.        |         |            |                       |           |
| NAME OF CONSORTIUM MEMBER        |         |            |                       |           |
| MEMBER'S DRWG. NO.               |         |            |                       |           |
| NAME OF TECHNICAL PROJECT LEADER |         |            |                       |           |
| CONSORTIAL DRWG. NO.             |         |            |                       |           |
| IRANSELEKTRO                     |         |            |                       |           |
| K3-MF-HRA-D-9217                 |         |            |                       |           |

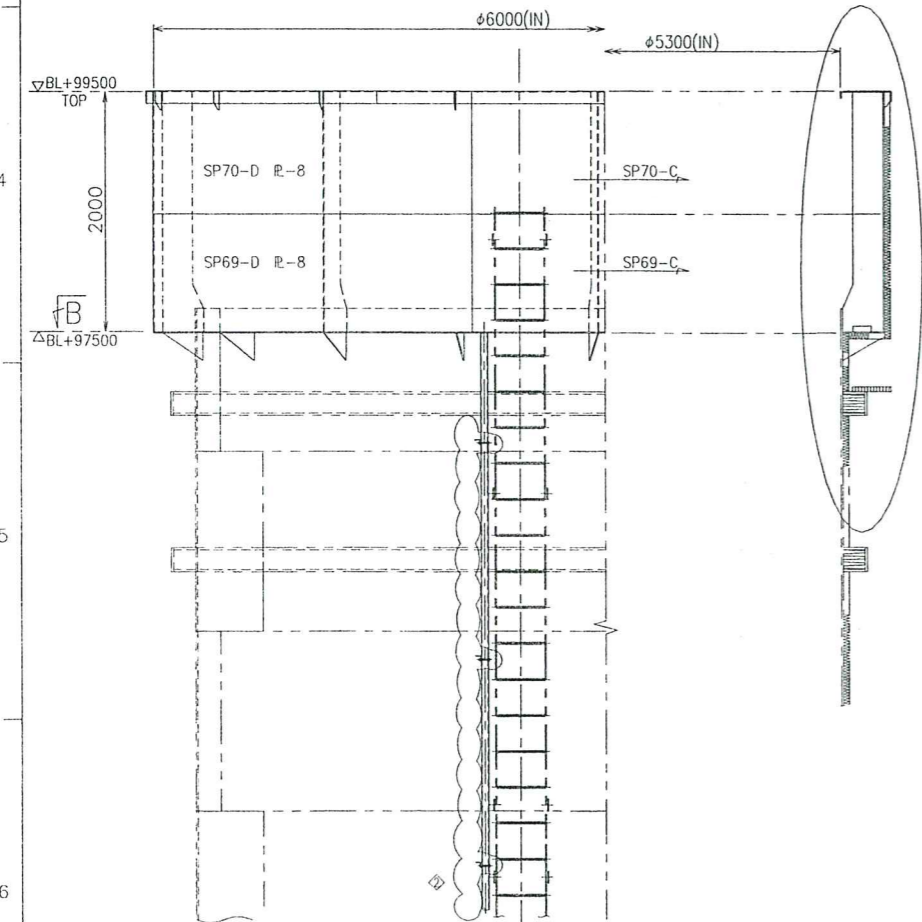
|          |   |   |     |   |
|----------|---|---|-----|---|
| CONFER   | HIROSHIMA MACHINERY WORKS STEEL STRUCTURE DESIGNING SECTION | TKD PROJECT / WET STACK KANGAL THERMAL POWER PLANT, TURKISH | REV | 3 |
| APPROVED |   |   |     |   |
| CHECKED  |   |   |     |   |
| DRAWN    | K.Nishimoto   |   |     |   |
| SCALE    | 1:50,30,20,10,5   |   |     |   |
| ORDER    | 222874  | ITEM  |     |   |
|          |   | DRAWING NO.   |     |   |
|          |   | 7083 C333-00217   |     |   |



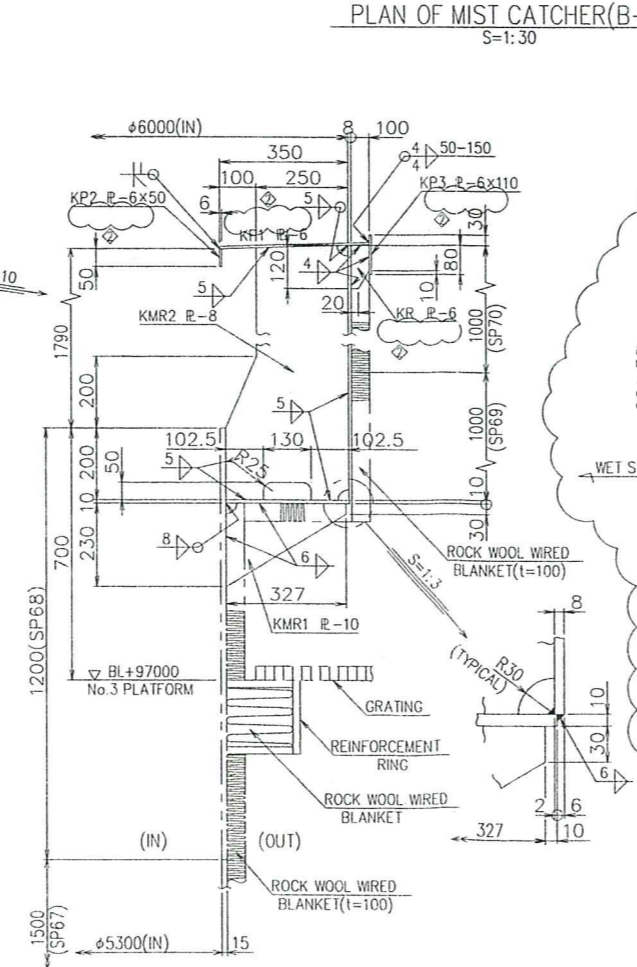
PLAN OF TOP  
S=1:30



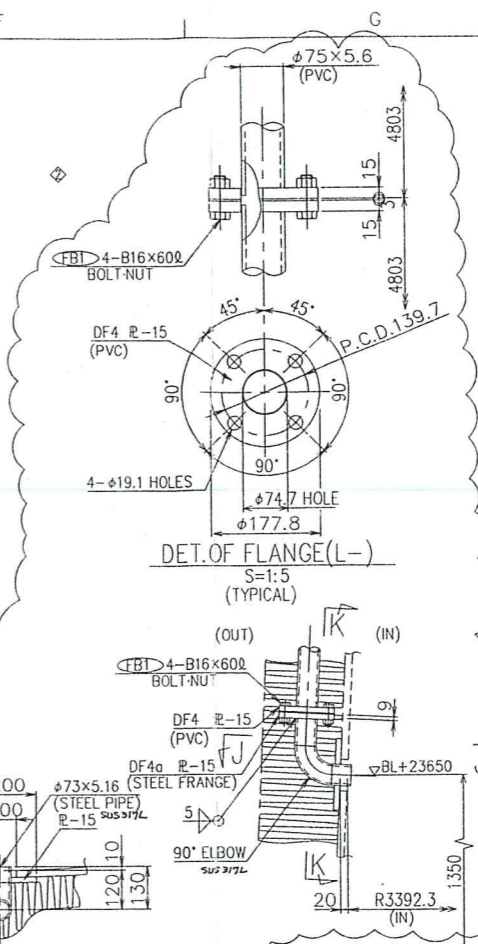
PLAN OF MIST CATCHER(B-B)  
S=1:30



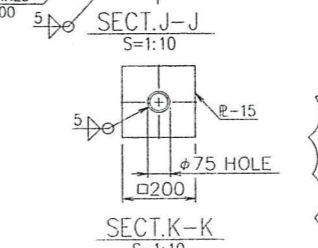
SECT. A-A  
S=1:30



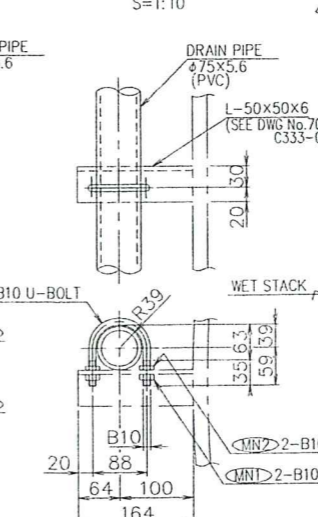
FITTING METHOD OF PIPE SUPPORT  
S=1:5



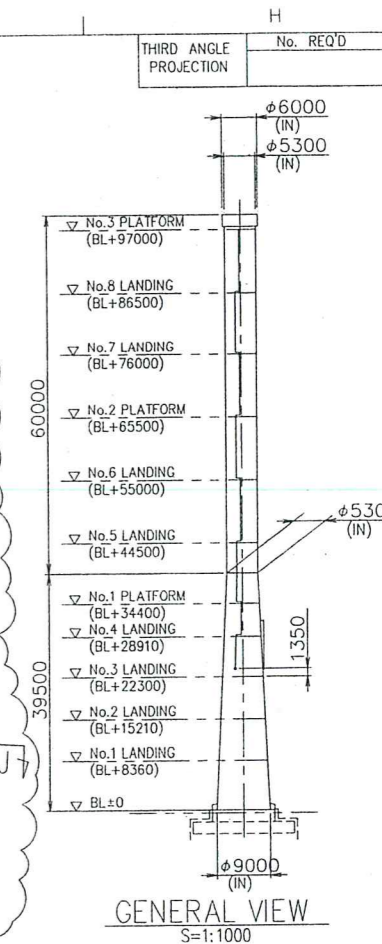
DET. OF FLANGE(L-)  
S=1:5 (TYPICAL)



SECT. J-J  
S=1:10



SECT. K-K  
S=1:10



GENERAL VIEW  
S=1:1000

| MARK | KIND                                     | SIZE | QTY | REMARKS                           |
|------|--|------|-----|-----------------------------------|
| FBI  | STAINLESS STEEL BOLT&NUT W/SPRING WASHER | B16  | 88  | ASTM A1-50                        |
| DUT  | U-BOLT(GALVANIZING)                      | B10  | 50  | Equivalent DIN norms, quality 5.6 |
| MN1  | COMMON NUT(GALVANIZING) CLASS 1          | B10  | 100 | Equivalent DIN norms, quality 5.6 |
| MN2  | COMMON NUT(GALVANIZING) CLASS 3          | B10  | 100 | Equivalent DIN norms, quality 5.6 |

- NOTES
- STEEL MATERIALS UNLESS OTHERWISE NOTED ALL OF MEMBER ARE TO BE S137-2
  - MARK INDICATE TRANSPORT SYMBOL FOR MEMBERS, WITHOUT INDICATE PIECES AT SHOP
  - WELDING SYMBOL ARE AS FOLLOWS TO BE WELDED AT SHOP
  - RELATED DRAWING ARE AS FOLLOWS
    - DETAIL OF SHELL PLATE ... 7083 C333-00202
    - DETAIL OF LADDER AND LANDING(1/3) ... 7083 C333-00209
    - DETAIL OF LADDER AND LANDING(2/3) ... 7083 C333-00210
    - DETAIL OF MIST CATCHER(2/2) ... 7083 C333-00219
  - THE WELDING STANDARD REFER TO DWG No. 7083 C333-00250

| REV | CHECKED    | DATE         | DESCRIPTION          | REF. No. |
|-----|------------|--------------|----------------------|----------|
| 1   | Y. HIGUCHI | MAY. 20. '99 | REVISED WHERE MARKED |          |
| 2   | Y. HIGUCHI | NOV. 28. '97 | REVISED WHERE MARKED |          |
| 3   | K. FUJIOKA |              |                      |          |
| 4   | Y. OKAMOTO |              |                      |          |

|        |   |          |                     |      |          |
|--------|---|----------|---------------------|------|----------|
| TEAS   | 6 | PREPARED | Y. HIGUCHI          | DATE | 21/01/99 |
| TE     | 3 | DRAWN    | Y. HIGUCHI          | DATE | 21/01/99 |
| MS     |   | CHECKED  | K. FUJIOKA          | DATE | 21/01/99 |
| MF     |   | APPROVED | Y. OKAMOTO          | DATE | 21/01/99 |
| SI     |   |          |                     |      |          |
| SM     |   |          |                     |      |          |
| GA     | 3 | SCALE    | 1:1000, 30, 10, 5.3 |      |          |
| TP/ENK | 2 |          |                     |      |          |

|                                  |                           |
|----------------------------------|---------------------------|
| NAME OF SUBCONTRACTOR            | SUBCONTRACTOR'S DRWG. NO. |
| NAME OF CONSORTIUM MEMBER        | MEMBER'S DRWG. NO.        |
| NAME OF TECHNICAL PROJECT LEADER | CONSORTIUM DRWG. NO.      |
| TRANSELEKTRO                     | K3-MF-HRA-D-9218          |

|             |   |   |
|-------------|---|---|
| CONF. - RED | HIROSHIMA MACHINERY WORKS STEEL STRUCTURE DESIGNING SECTION | TKD PROJECT / WET STACK KANGAL THERMAL POWER PLANT, TURKISH |
| APPROVED    |   |   |
| CHECKED     | K. Nishimoto  |   |
| DRAWN       |   |   |
| SCALE       | 1:1000, 30, 10, 5.3   |   |
| ORDER       | 222874  | 7083 C333-00218   |
| ITEM        |   |   |
| DRAWING NO. |   |   |
| REV         |   |   |