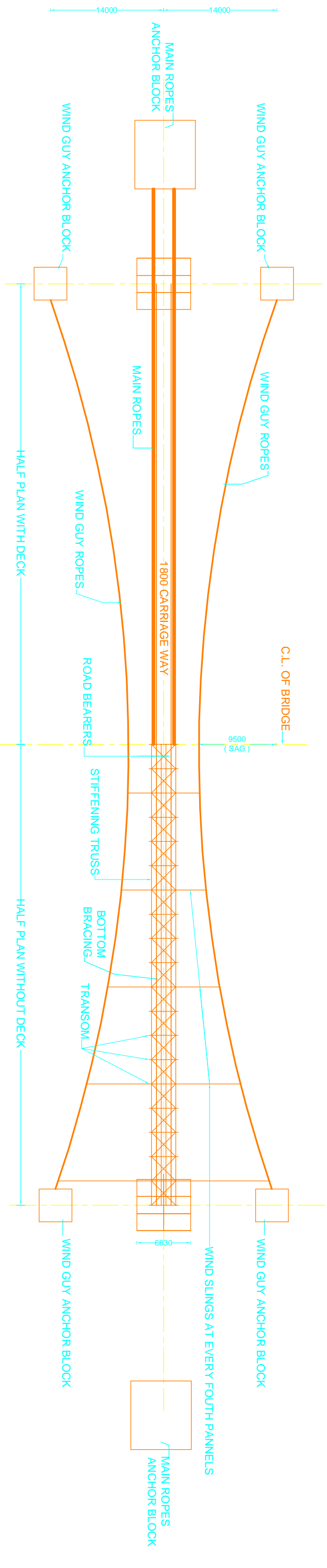
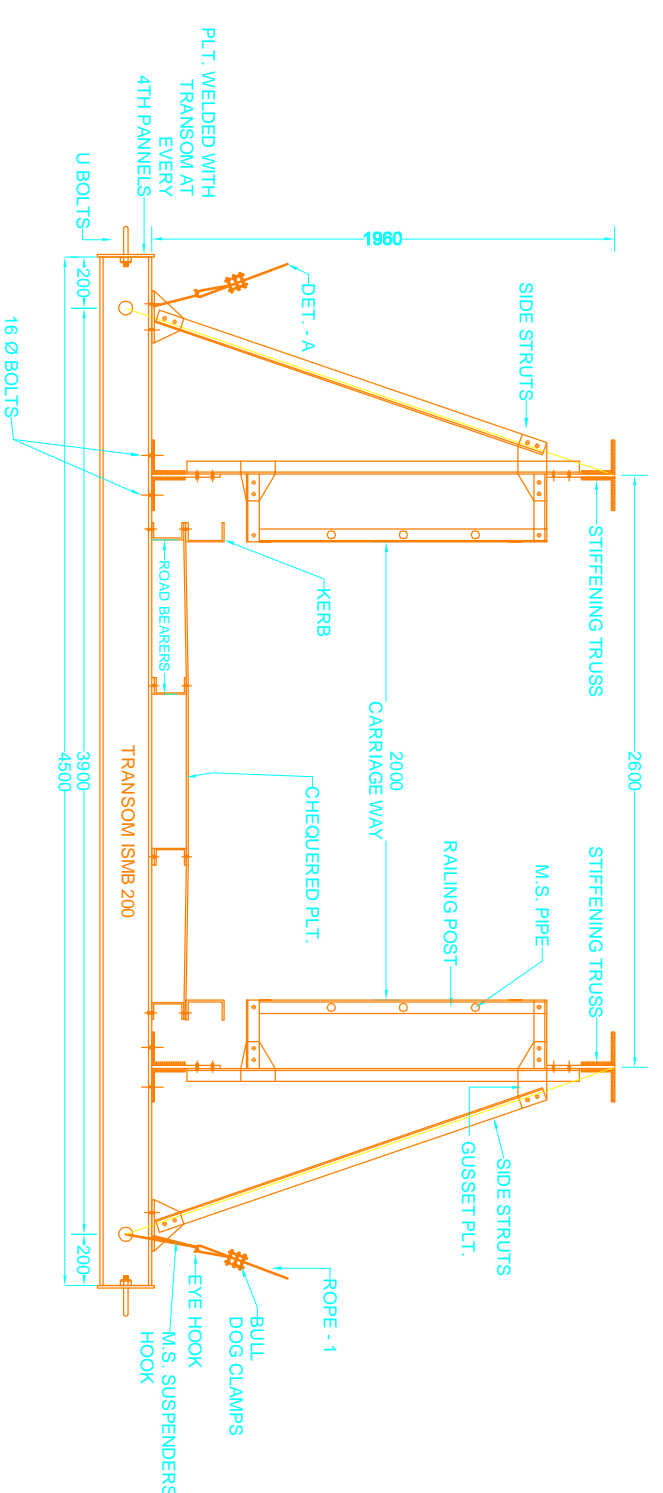


L-SECTION OF BRIDGE



PLAN



CROSS-SECTION OF BRIDGE

NOTES :-

- 1 ALL DIMENSIONS ARE IN MM. & LEVELS IN METERS.
- 2 DO NOT SCALE FOLLOW, WRITTEN DIMENSIONS ONLY.
- 3 BRIDGE IS DESIGNED FOR PEDESTRIAN LOAD OF 5 KN/M².
- 4 APPLICABLE FOR IRC 5 R LOADING.
- 5 CLEAR CARRIAGE WAY = 2000 MM
- 6 (A) SAFE BEARING CAPACITY ADAPTED IN DESIGN
- 7 (I) LEFT ABUTMENT = 25 T / M²
- 8 (II) RIGHT ABUTMENT = 25 T / M²
- 9 SEISMIC PARAMETERS ADOPTED IN THE DESIGN CONFORMING TO I.R.C. : 6 - 2000 .
- 10 (I) ZONE : IV
- 11 (II) I 1.0
- 12 (III) R 2.5
- 13 (IV) Sa/g 2.5
- 14 IN CASE OF ANY CHANGE IN THE ABOVE PARAMETERS , THE DESIGN OF ABUTMENT SHALL CHANGE .
- 15 PROPER PROTECTION SHOULD BE PROVIDED AROUND ANCHOR BLOCKS TO KEEP THEM SAFE FROM THE EFFECTS OF WATER CURRENTS.
- 16 FOR OTHER NOTES , REFER DRG. NO. 1139-STR-02 & 05.

| ISSUE | DATE | DESCRIPTION | MADE BY | APPROVED |
|-------|------------|---------------------|---------|----------|
| R1 | 19-09-2011 | LEFT ABUT. MODIFIED | | |

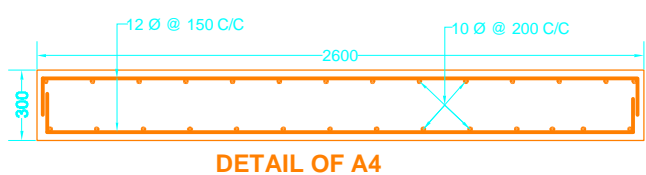
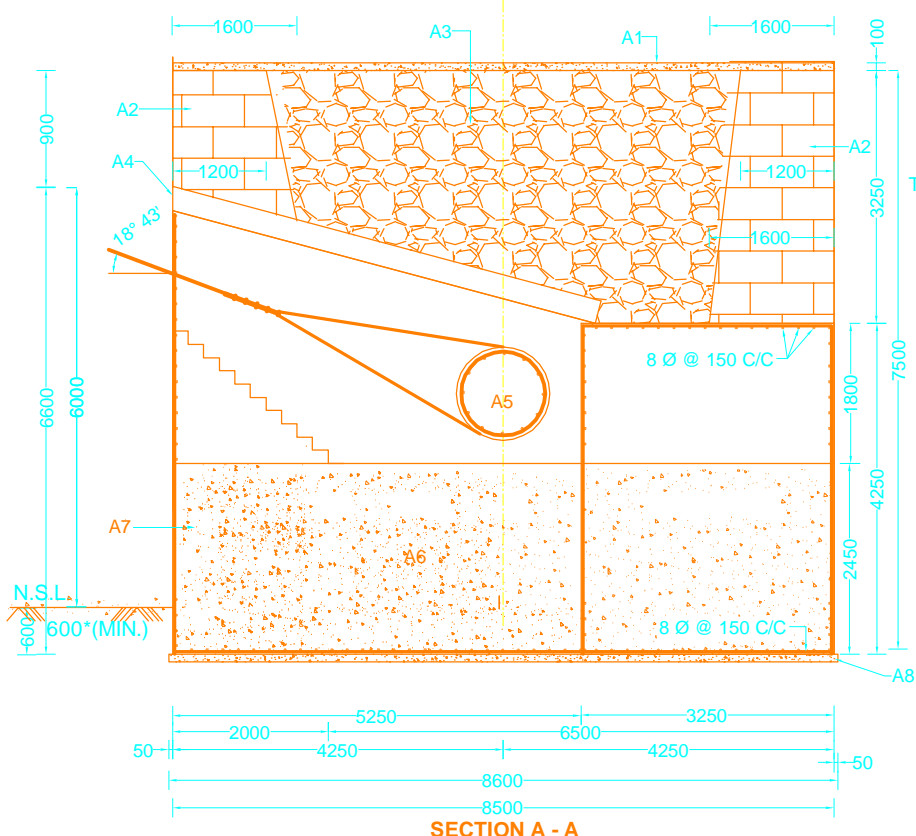
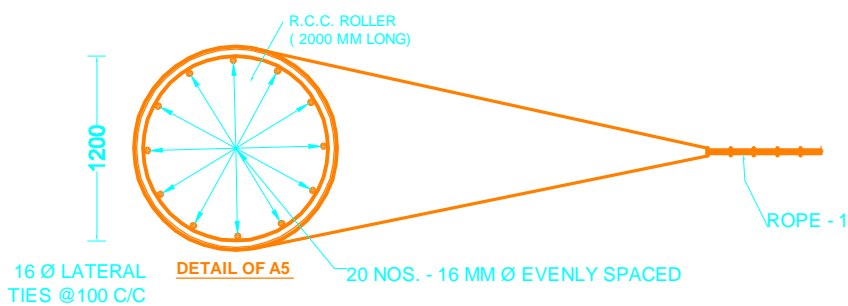
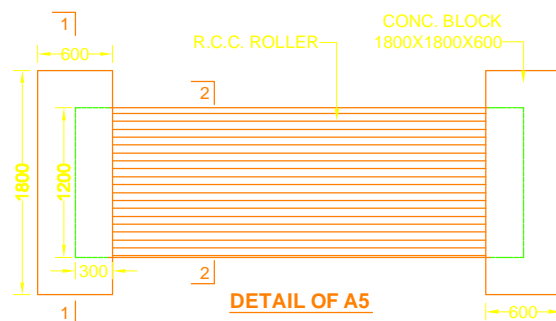
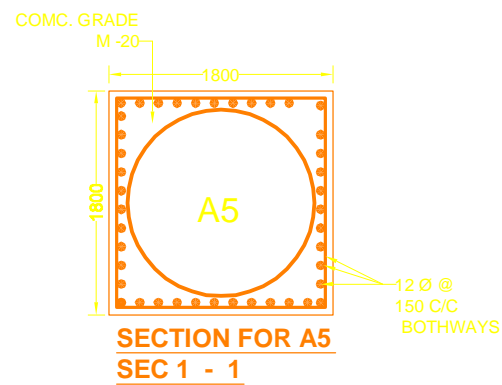
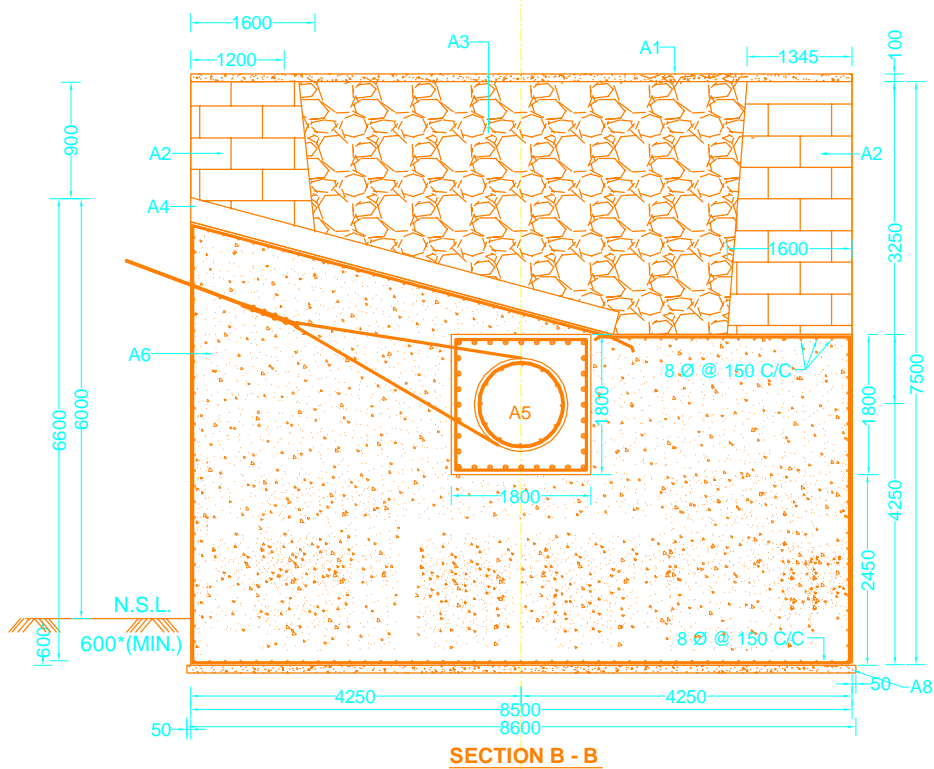
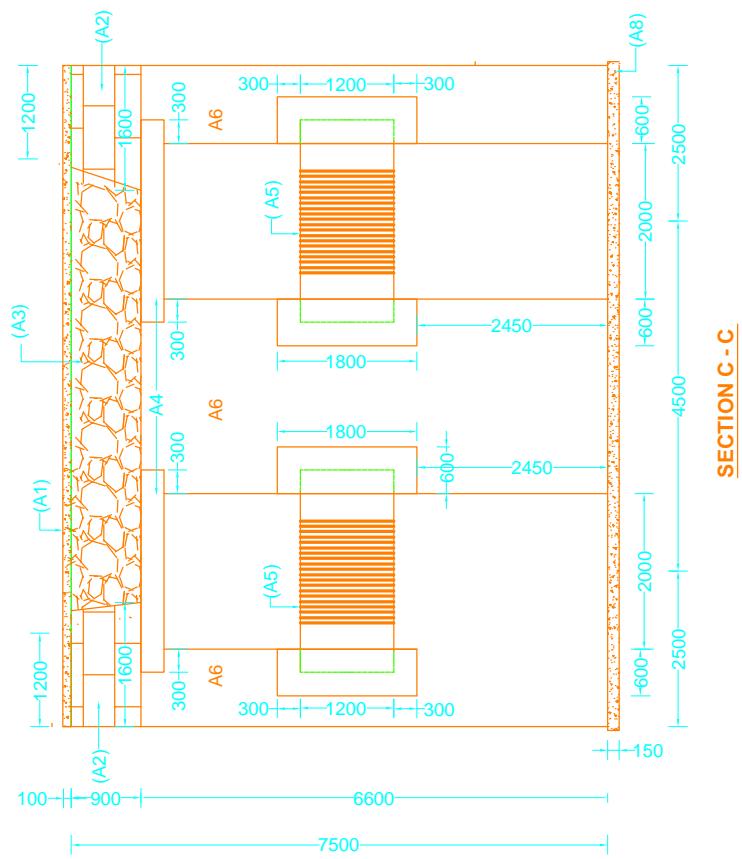
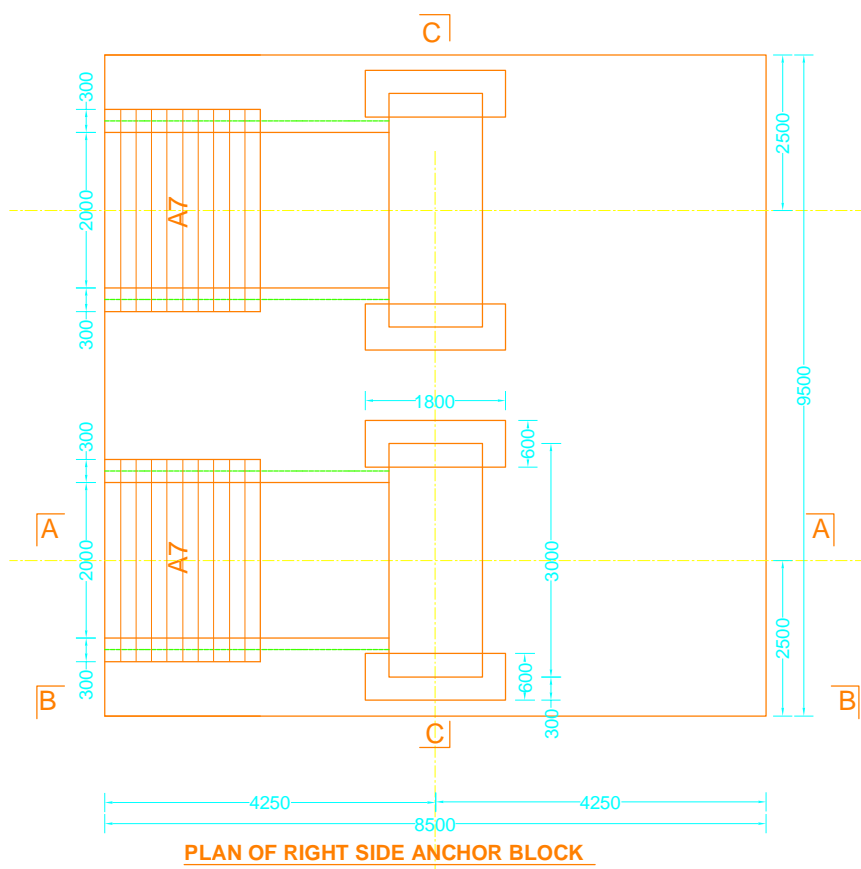
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| <p>AMENDMENTS</p> <p>TITLE OF DRG.</p> <p>GENERAL ARRANGEMENT</p> | |
| PROJECT | PROPOSED 114 M C/C SPAN FOOT JEEPABLE SUSPENSION BRIDGE OVER RIVER CHENAB ON ATHOLI-GULABGARH ROAD . |
| CLIENT | D.G.M. , J.K.P.C.C. , KISHTWAR |
| CONTRACTOR | |
| DRAWN | <i>Kamruddin Khan</i> |
| CHECKED | |
| APPROVED | M. L. PURI |

HIGHRISE DESIGNERS
ENGINEERS AND STRUCTURAL CONSULTANTS

59/4, NANAK NAGAR JAMMU (O) 2439861

| | |
|---------------|--------------|
| DRG. NO. | 1139 -STR-01 |
| DATE OF ISSUE | 19-09-20 |

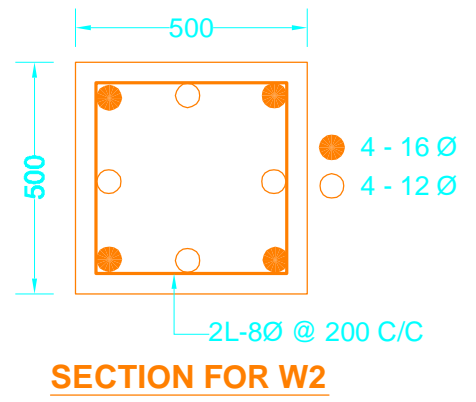
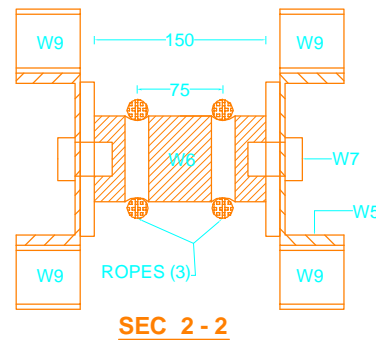
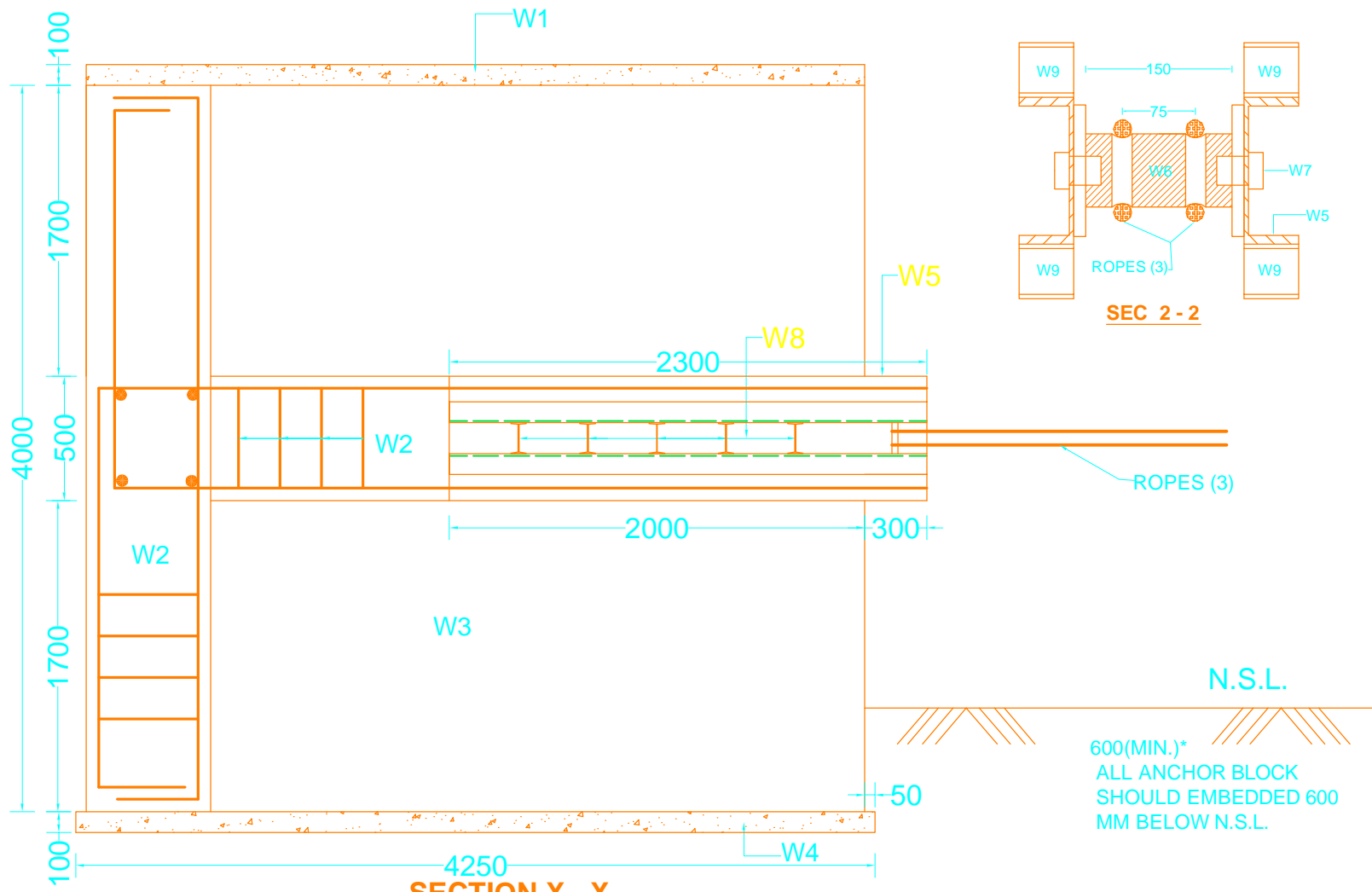
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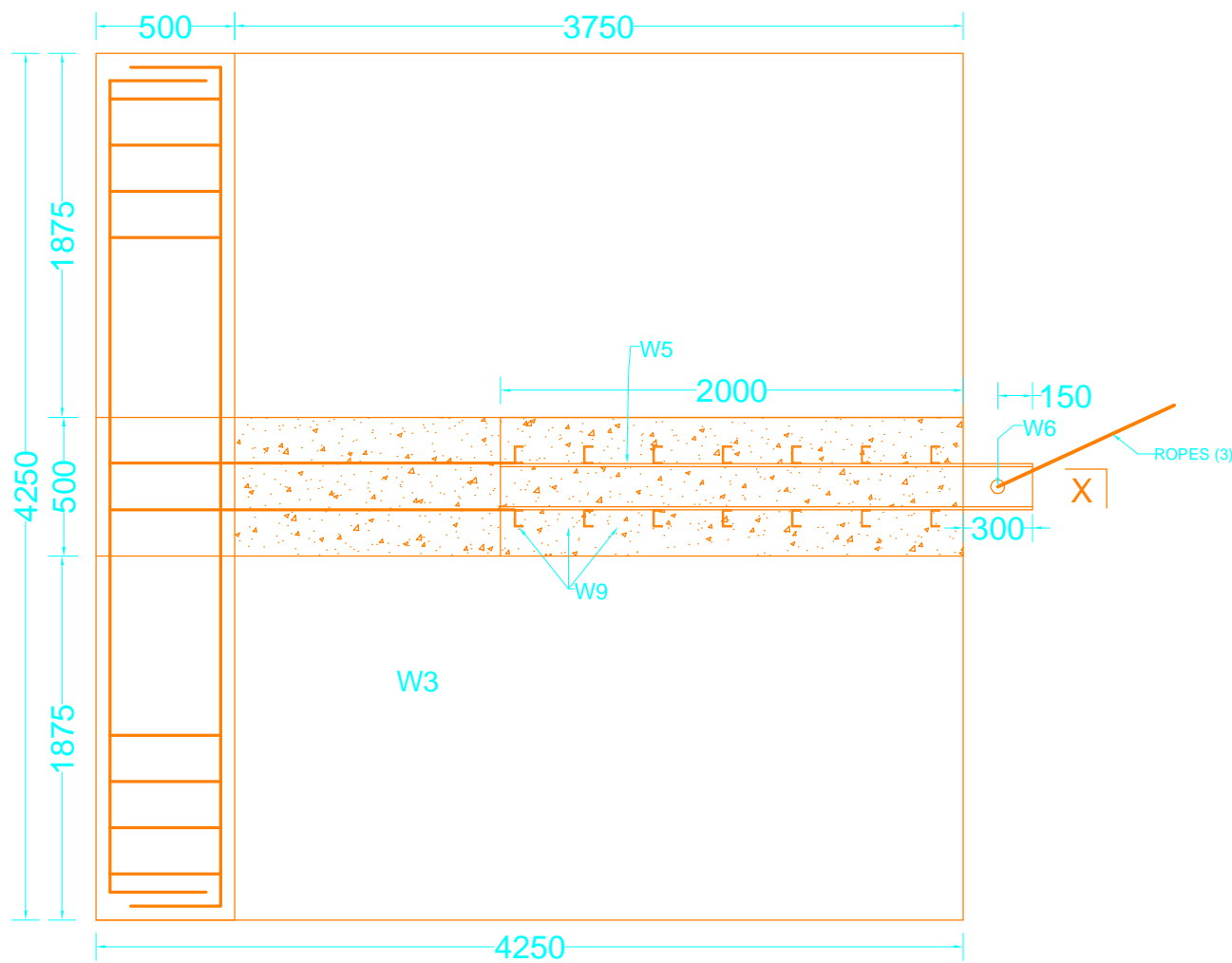
| | |
|----|---|
| A1 | TOP SLAB IN P.C.C. 1:2:4 |
| A2 | STONE MASONRY IN CEMENT MORTAR 1:6 |
| A3 | BOULDER FILLING WITH 15% SAND TO FILL VOIDED WITH MIN. DENSITY 2.2 T/M2 |
| A4 | R.C.C. SLAB IN M - 20 |
| A5 | R.C.C. ROLLER IN M - 20 |
| A6 | RCC WORK IN 1:2:4 WITH SKIN REINFORCEMENT . |
| A7 | APPROACH STAIRS IN STONE / BRICK MASONRY |
| A8 | LEVELLING COURSE IN PCC 1:2:4 |

DRAWING REVISED ON 5.8.2017

| ISSUE | DATE | DESCRIPTION | MADE BY | APPROV |
|---|---|-------------|----------|--------------|
| AMENDMENTS | | | | |
| TITLE | ANCHOR BLOCK FOR MAIN ROPES DETAIL (RIGHT SIDE) | | | |
| PROJECT | PROPOSED 114 M C/C SPAN FOOT SUSPENSION BRIDGE OVER RIVER CHENAB ON ATHOLI-GULABGARH ROAD . | | | |
| CLIENT | D.G.M. , J.K.P.C.C. , KISHTWAR | | | |
| DRAWN | NITIN | | | |
| CHECKED | | | | |
| APPROVED | M.L. PURI | | | |
| HIGHRISE DESIGNERS ENGINEERS AND STRUCTURAL CONSULTANTS 59/4, NANAK NAGAR JAMMU (O) 2438661 | | | | |
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**SECTION X - X
DETAIL OF ANCHOR BLOCK FOR WIND GUY**



PLAN OF ANCHOR BLOCK FOR WIND GUY

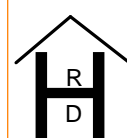
NOTES :-

- 1 ALL DIMENSIONS ARE IN MM. & LEVELS IN METERS.
- 2 DO NOT SCALE FOLLOW, WRITTEN DIMENSIONS ONLY.
- 3 ALL CONCRETE GRADE M - 20 , UNLESS & OTHERWISE SPECIFIED .
- 4 LAPS MAY BE PROVIDED IN THE REINFOR. WHERE EVER REQUIRED SUBJECTED TO FOLLOWING .
(A) NOT MORE THAN 50 % BARS AT A SECTION SHALL BE LAPPED AT
(B) A MINIMUM LAP LENGTH OF 99 TIMES THE DIA OF THE BARS SHALL
(C) THE LAPS SHALL BE STAGGERED BY AT LEAST 129 TIMES THE Ø SPECIFIED .
- 5 REINFORCEMENT BARS SHALL BE H.Y.S.D. 415 BARS CONFORMING TO I.S. : 1786-1979 .
- 6 STRUCTURAL STEEL TO CONFORM TO IS : 2062 .
- 7 FABRICATION AND ERECTION SHALL CONFORM TO IS : 800 & IRC 24 - 1987 .
- 8 ALL THE STEEL JOINTS WILL BE WELDED JOINTS FOR WHICH IS : 1024 - 1979 SHALL BE FOLLOWED .
- 9 ALL WELDING SHALL BE DONE IN ACCORDANCE WITH IS : 816 & IS:9595 .
- 10 ALL WELDED ARE 6TH INTERMIDIENT FILLET WELD , UNLESS OTHER WISE SPECIFIED .
- 11 ALL FILLET WELDS SHALL BE TESTED BY DYE PENETRATION TEST AS PER CURRENT PRACTICE OR AS PER N.I.T.
- 12 ALL BOLTS TO CONFORM TO CLAUSE 5.6 OF IS-3640 .
- 13 ALL BOLTS ARE 16 MM Ø UNLESS OTHERWISE SPECIFIED .
- 14 17.5 Ø HOLES SHALL BE DRILLED FOR 16Ø BOLTS UNLESS OTHER WISE SPECIFIED .
- 15 ALL GUSSET PLATES ARE 10 MM THICK UNLESS OTHERWISE SPECIFIED .
- 16 INDIVIDUAL MEMBER LENGTH INDICATED ON DRAWING SHALL BE CROSS CHECKED BEFORE FABRICATION .
- 17 FOR FABRICATION , WORKMANSHIP , ISPECTION & TESTING , PROTECTION AGAINST CORROSION ETC REVELANT PROVISIONS IF IRC 24 - 2001 SHALL BE FOLLOWED .
- 18 FABRICATION & ERECTION SHALL BE CONFORM TO IS: 800 & I R C 24 - 1967 .
- 19 TOLERANCES SHALL BE MAINTAINED IN ACCORDANCE WITH IS:7205 .
- 20 ROPES TO CONFORM TO I:S 9282 - 2002.
- 21 GUY TO BE PROVIDED AT EVERY FOURTH PANNEL.
- 22 ROPES GRIPS TO CONFORM IS :2361
- 23 ROPES TO BE LOOPED TWICE OVER THE ROLLER .
- 24 THE DRAWINGS ARE SUBJECTED TO CHANGE AS PER SITE DURING COURSE OF EXECUTION HOWEVER THE NECESSARY MODIFICATION IF REQUIRED SHALL BE INCORPORATED ACCORDINGLY

| | |
|----|--|
| W1 | P.C.C. 1:2:4 |
| W2 | R.C.C. BEAM IN M-20 (SEE SECTION 1 - 1) |
| W3 | P.C.C. IN 1:3:6 |
| W4 | LEVELLING COURSE IN P.C.C. 1:4:8 |
| W5 | 2 ISMC 200 WITH BACK WEB PLT. 500X180X16TH.(2300 LG) (SEE SECTION 2 - 2) |

| | |
|----|--|
| W6 | 100 Ø M.S. SHAFT |
| W7 | 50 Ø M.S. STUDS / PINS |
| W8 | ISMB 150 (180 LG) DIAPHRAM 6 NOS. |
| W9 | SHEAR CONNECTORS ISMC 75 (75 LG) @ 300 C/C |

| | | |
|--------------|---|--|
| TITLE | ANCHOR BLOCK FOR WIND GUYS ROPE DETAIL | |
| PROJECT | PROPOSED 114 M C/C SPAN FOOT SUSPENSION BRIDGE OVER RIVER CHENAB ON ATHOLI-GULABGARH ROAD . | |
| CLIENT | D.G.M. , J.K.P.C.C. , KISHTWAR | |
| SUBMITTED BY | | |
| DRAWN | NITTIN | |
| CHECKED | | |
| APPROVED | M.L. PURI | |



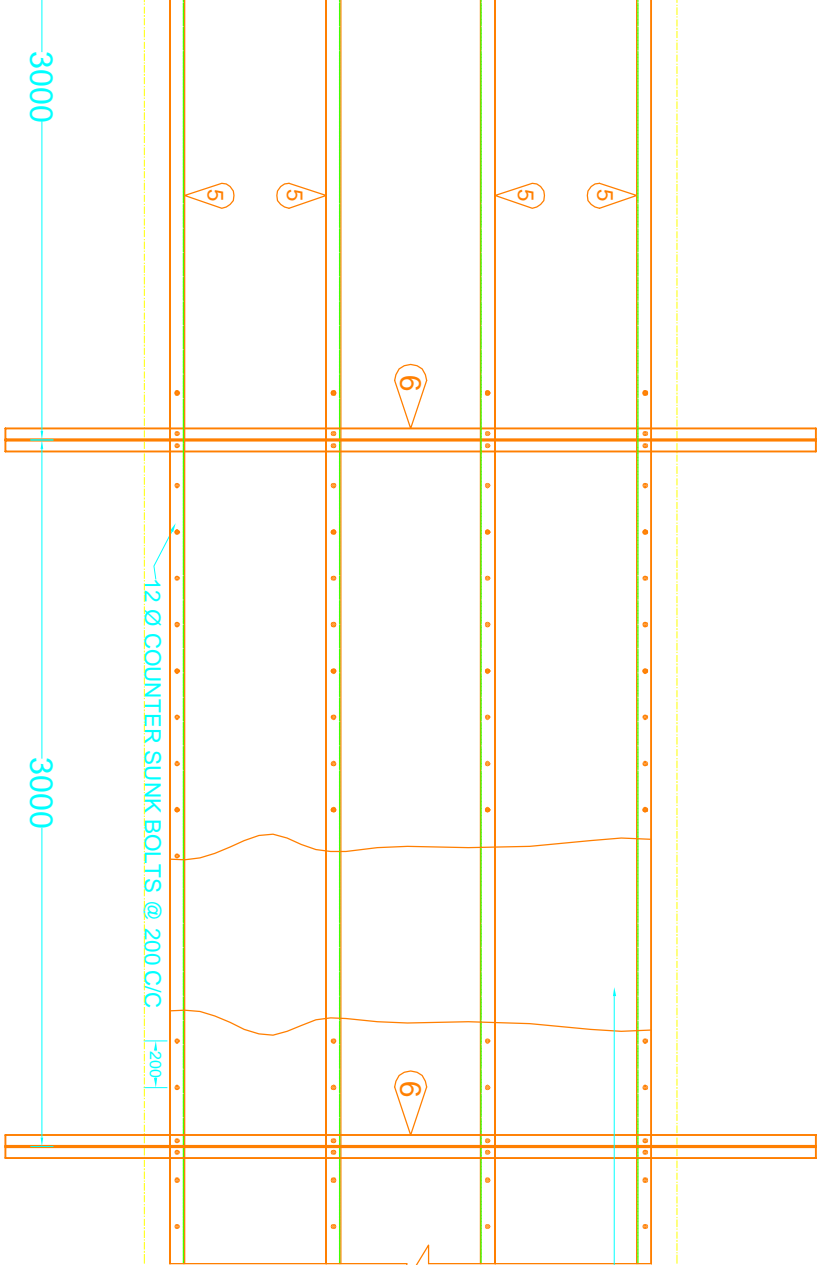
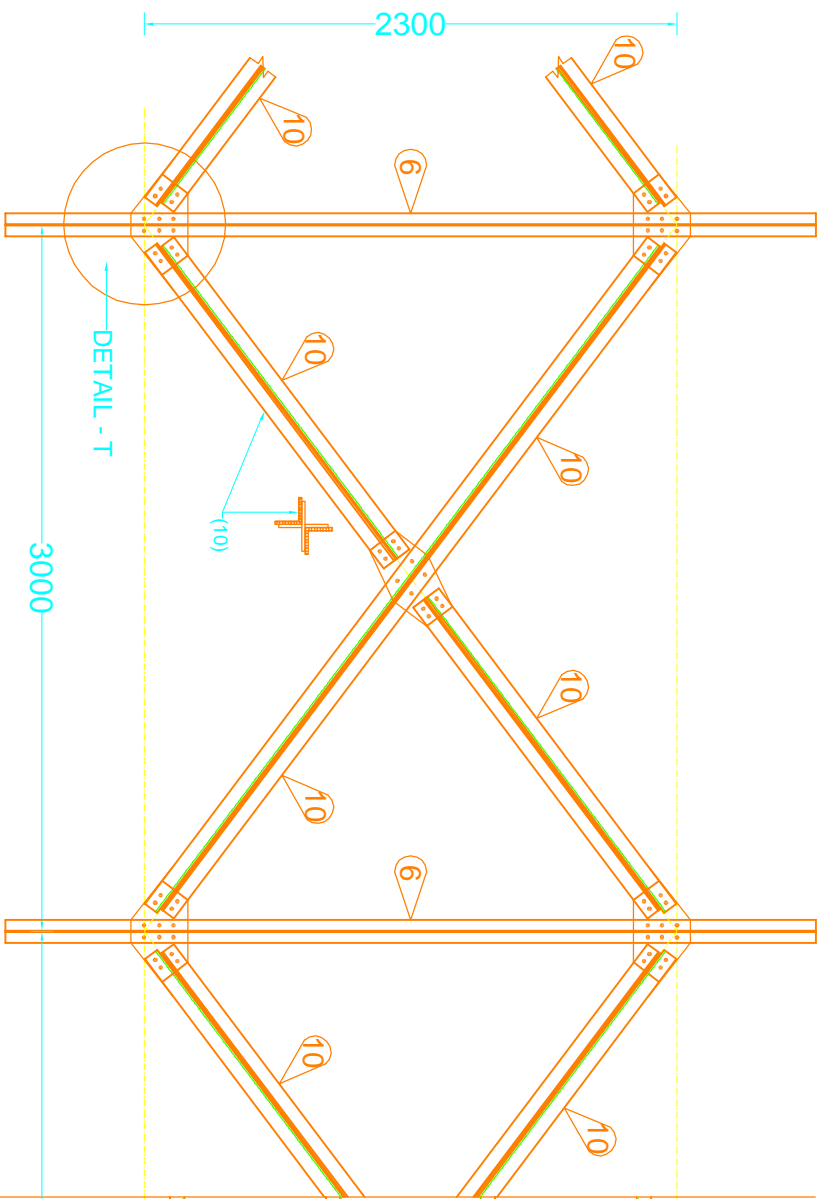
HIGHRISE DESIGNERS

ENGINEERS AND STRUCTURAL CONSULTANTS

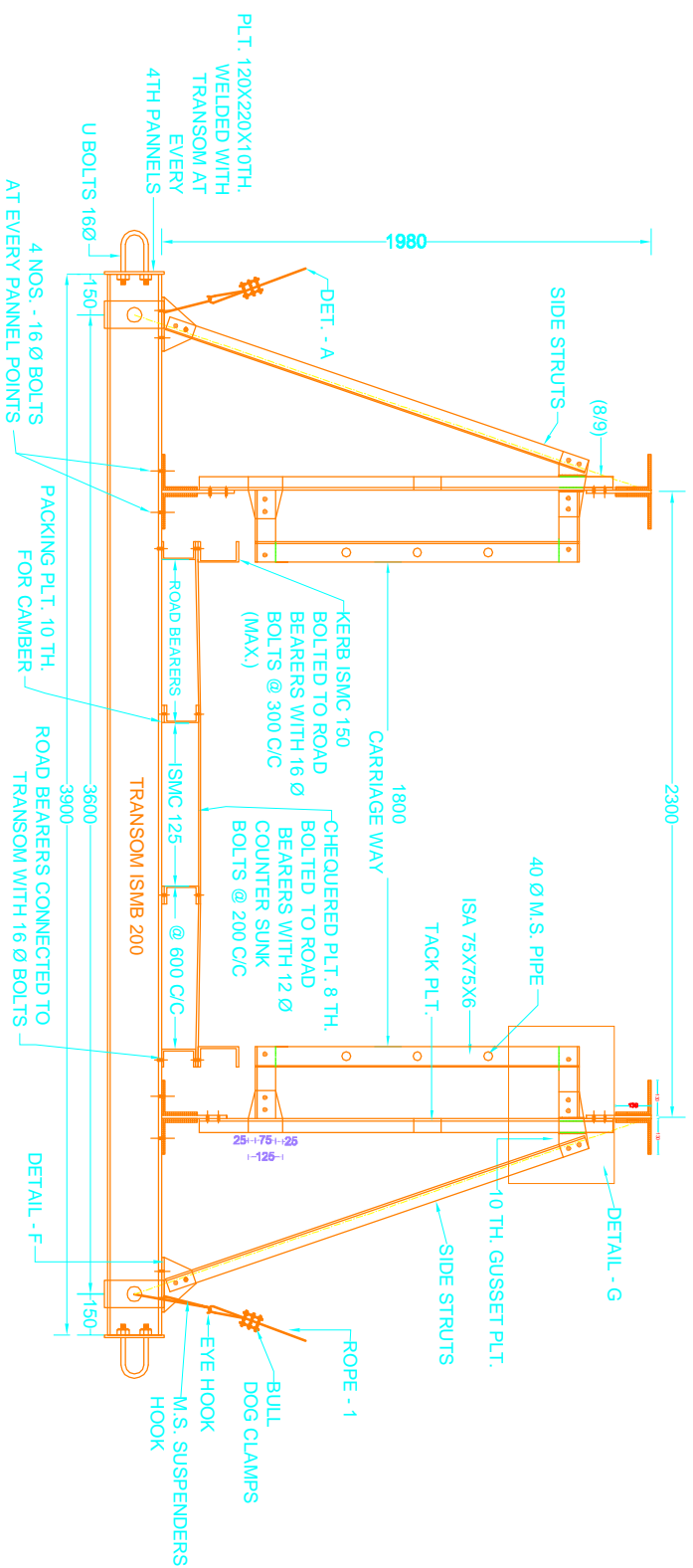
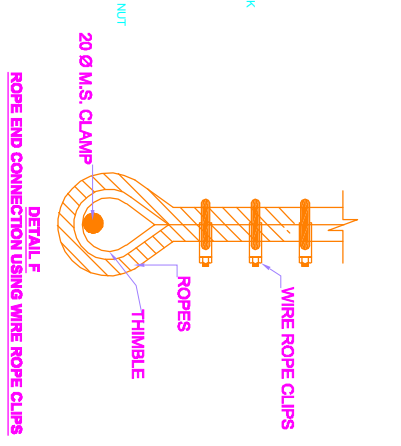
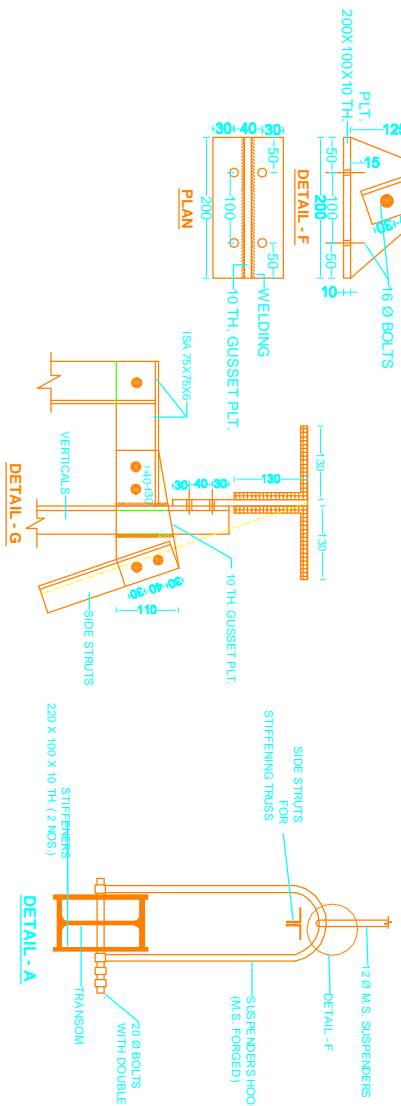
59/4, NANAK NAGAR JAMMU (O) 2438661

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|--------------|---------------|
| DRG. NO. | DATE OF ISSUE |
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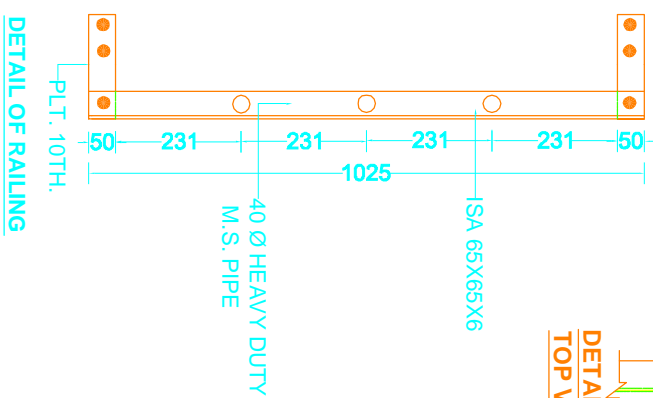
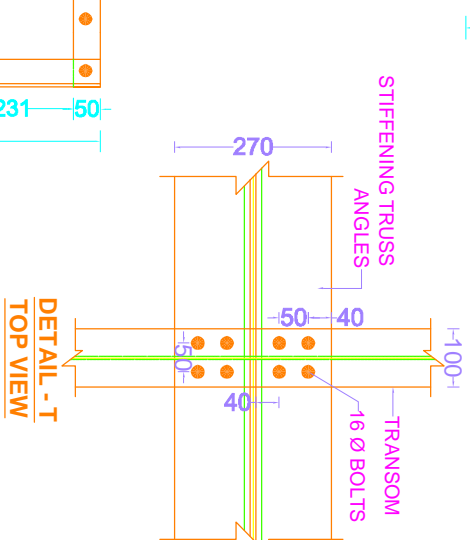
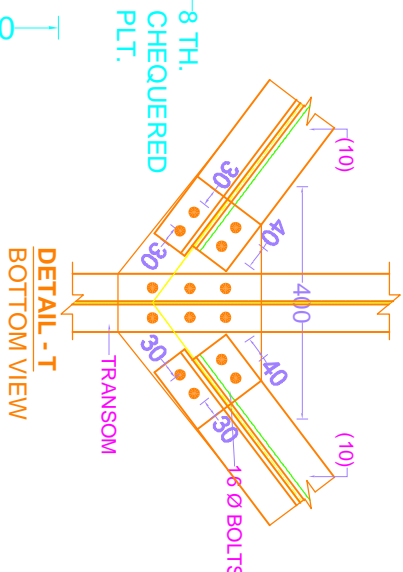


BOTTOM VIEW OF BRIDGE



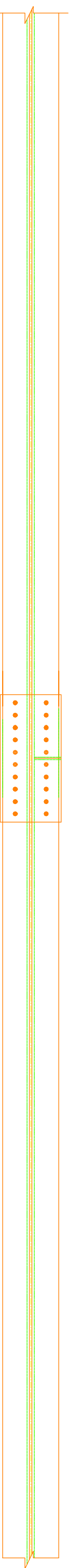
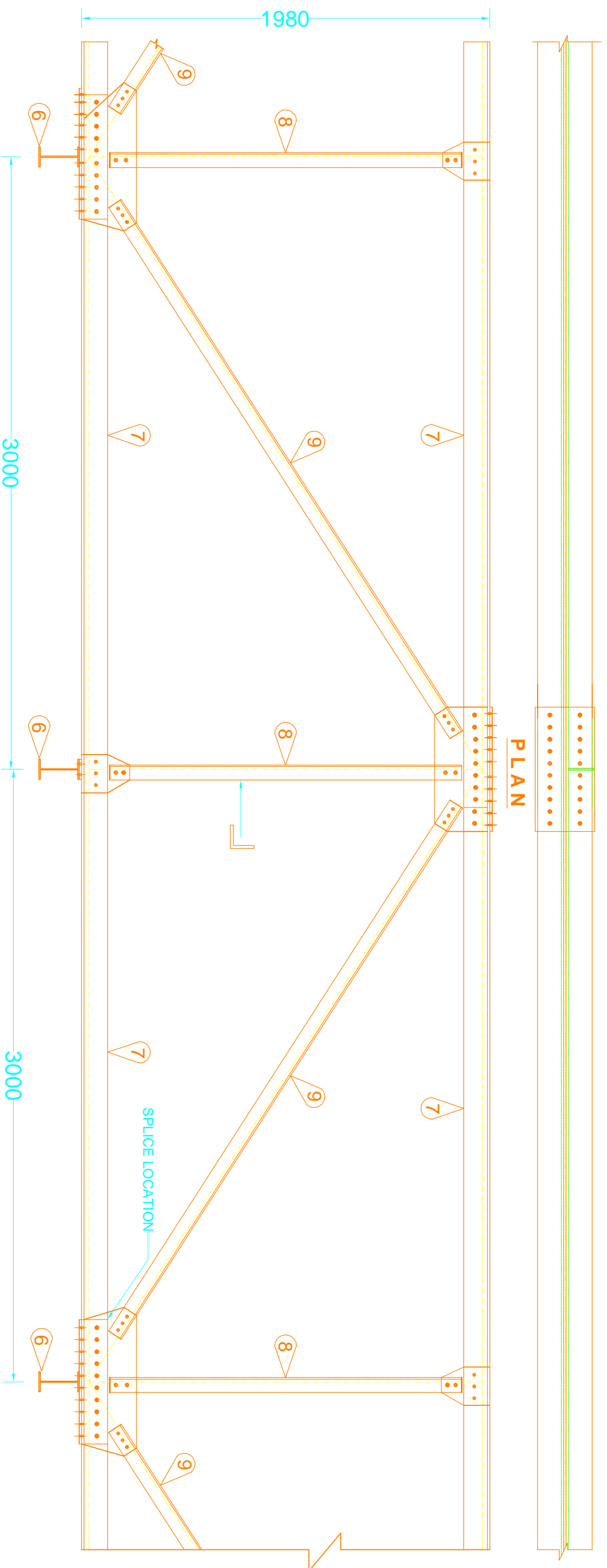
MATERIAL SCHEDULE:-

| ITEM | DESIGNATION |
|--------------------------------|---|
| (1) SUSPENDERS AND WIND SLINGS | 12mm ROUND STRAND 7x7(6-1) TABLE 1 OF I:S 9282 - 2002 (WITH GRADE 1420KN) |
| (2) MAIN ROPES | 4x2 NOS - 40 DIA ROUND STRAND 7x37(18/12/6-1) TABLE 3 OF I:S 9282 - 2002 (WITH GRADE 1570KN) |
| (3) WIND GUYS ROPES | 1 NO - 40 DIA ROUND STRAND 7x37(18/12/6-1) TABLE 1 OF I:S 9282 - 2002 (WITH GRADE 1420KN) |
| (4) DECKING | 8mm TH. CHEQUERED PLT. DECK |
| (5) DECKING | ROAD BEARER ISMC 125- 4 NOS AS SHOWN IN-X SECTION. |
| (6) DECKING | TRANSOM ISMB 200 - 39 NOS EVENLY SPACED |
| (7) DECKING | TOP /BOTTOM CHORD 2ISA 130x130x12th |
| (8) DECKING | VERTICALS AND SIDE STRUTS ISA 75 x 75 x 8 |
| (9) DECKING | DIAGONALS 2ISA 90 X 90 X 8 |
| (10) BOTTOM BRACING | 2ISA 65 x 65 x 6 + M.S. FLATS 120x50x8TH. @ 750 C/C |



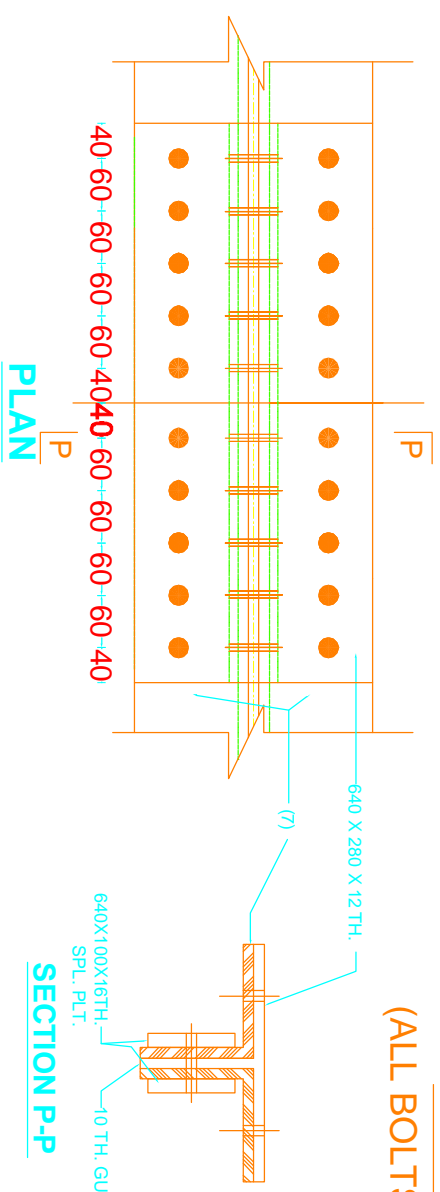
| ISSUE | DATE | DESCRIPTION | MADE BY | APPROVED |
|--|------|-----------------------------|---------|--------------|
| AMENDMENTS | | | | |
| TITLE OF DRG. STIFFENING TRUSS, DECKING & MISCELLANEOUS DETAIL-1 | | | | |
| PROJECT PROPOSED 114 M C/C SPAN FOOT SUSPENSION BRIDGE OVER RIVER CHENAB ON ATHOLI-GULABGARH ROAD. | | | | |
| CLIENT | | D.G.M., JK.P.C.C., KISHTWAR | | |
| CONTRACTOR | | NITIN GUPTA | | |
| DRAWN | | SCALE | | |
| CHECKED | | RELEASED | | |
| APPROVED | | FOR EXECUTION | | |
| M. L. PURI | | | | |
| HIGHRISE DESIGNERS ENGINEERS AND STRUCTURAL CONSULTANTS 59/4, NAWAK NAAGAR JAMMU (0172688661) | | | | |
| DRG. NO. | | 1139 -STR- 07 | | DATE C ISSUE |

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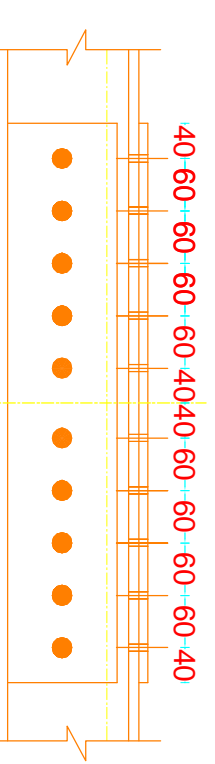


PART ELEVATION OF STIFFENING TRUSS SHOWING LOCATION OF SPLICE

(ALL BOLTS ARE 22MM DIA TURNED & FITTED MS BOLT,)

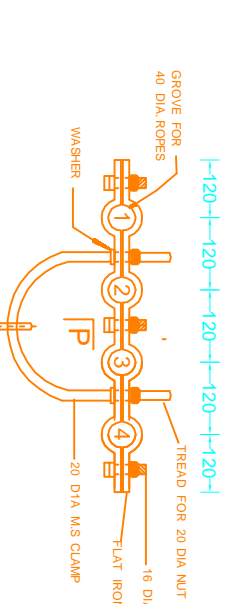


PLAN

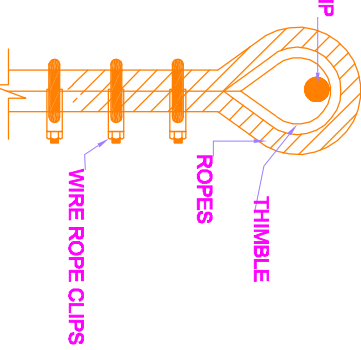


SPLICE LOCATION

SECTION P-P

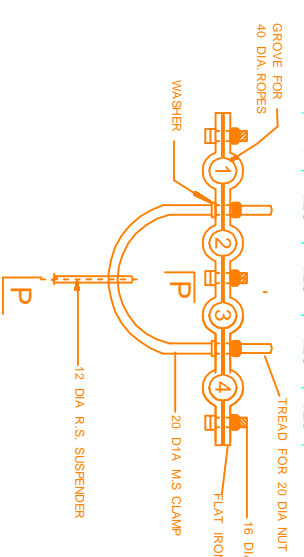



20 Ø M.S. CLAMP

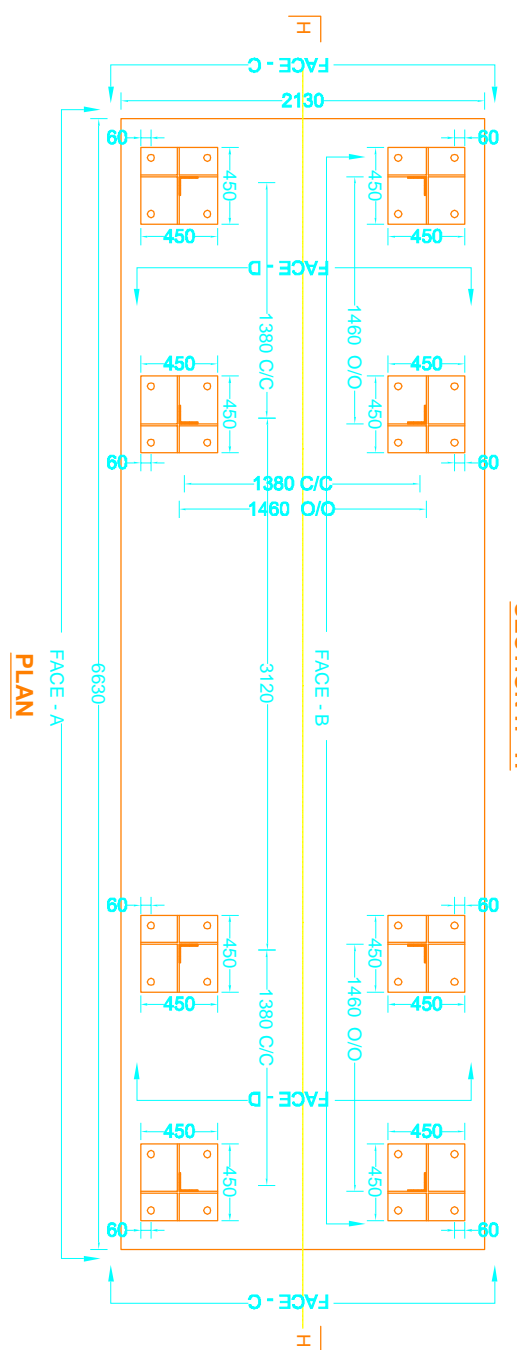
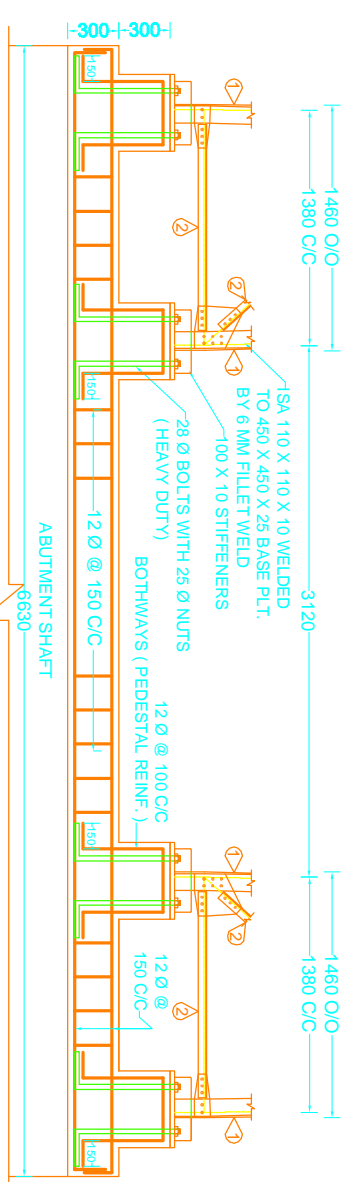
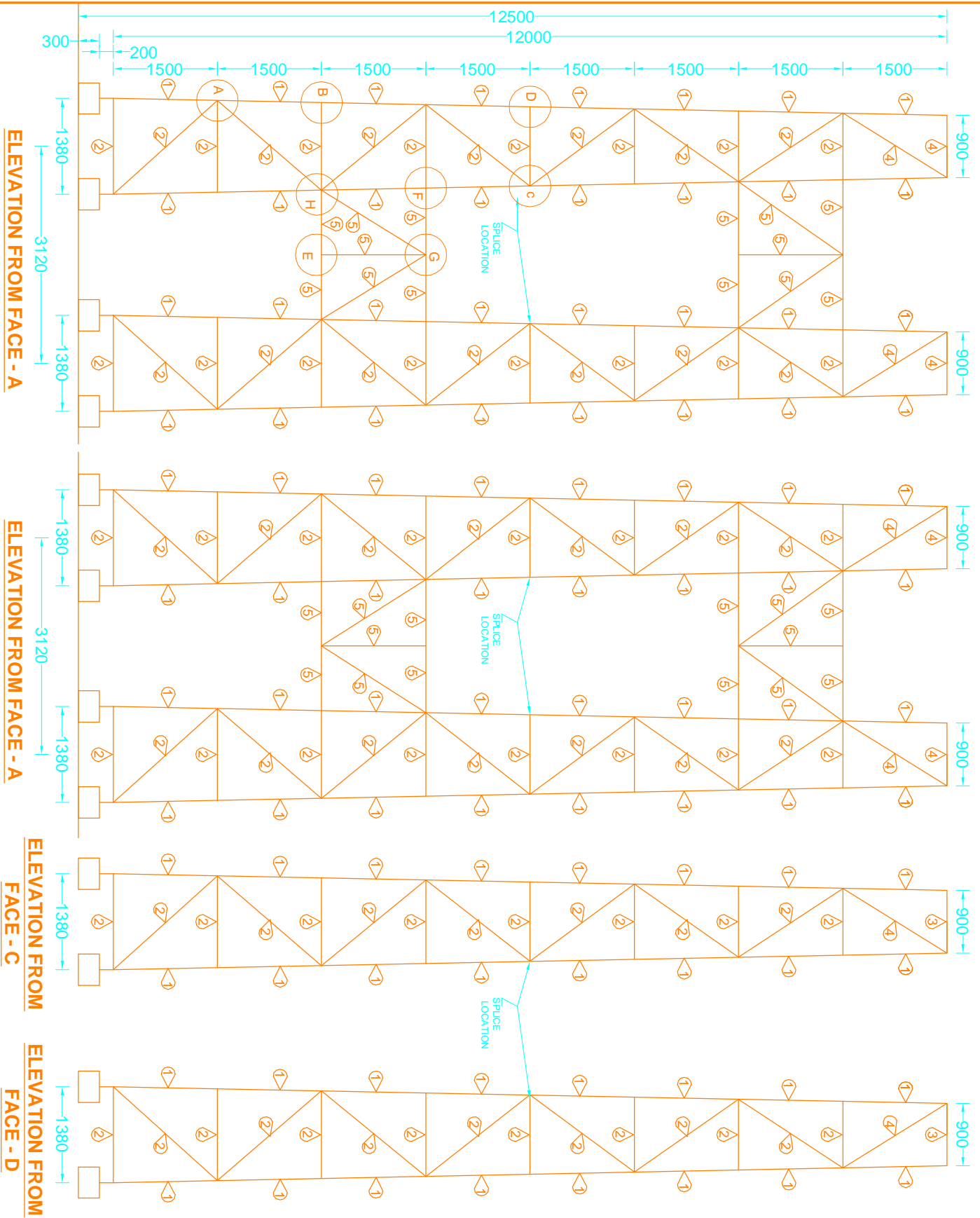


DETAIL P-P
ROPE END CONNECTION USING WIRE ROPE CLIPS

DETAILS OF CLAMP SUSPENDERS



| | | | | |
|---|--|--|-------------|---------------|
| ISSUE | DATE | DESCRIPTION | MADE BY | APPROVED |
| | | | | |
| <p>△ AMENDMENTS</p> | | | | |
| TITLE OF DRG. | STIFFENING TRUSS, DECKING & MISCELLANEOUS DETAIL-2 | | | |
| PROJECT | PROPOSED 114 M/C/C SPAN FOOT SUSPENSION BRIDGE OVER RIVER CHENAB ON ATHOLI-GULABGARH ROAD. | | | |
| CLIENT | D.G.M., J.K.P.C.C., KISHWAR | | | |
| CONTRACTOR | | | | |
| DRAWN | NITIN GUPTA | SCALE | | |
| CHECKED | | RELEASED | | |
| APPROVED | M. L. PURI | FOR | EXECUTION | |
|  | | HIGHRISE DESIGNERS ENGINEERS AND STRUCTURAL CONSULTANTS 59/4, NANAK NAGAR JAMMU (0172688661) | | |
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| | | | 1139-STR-08 | |

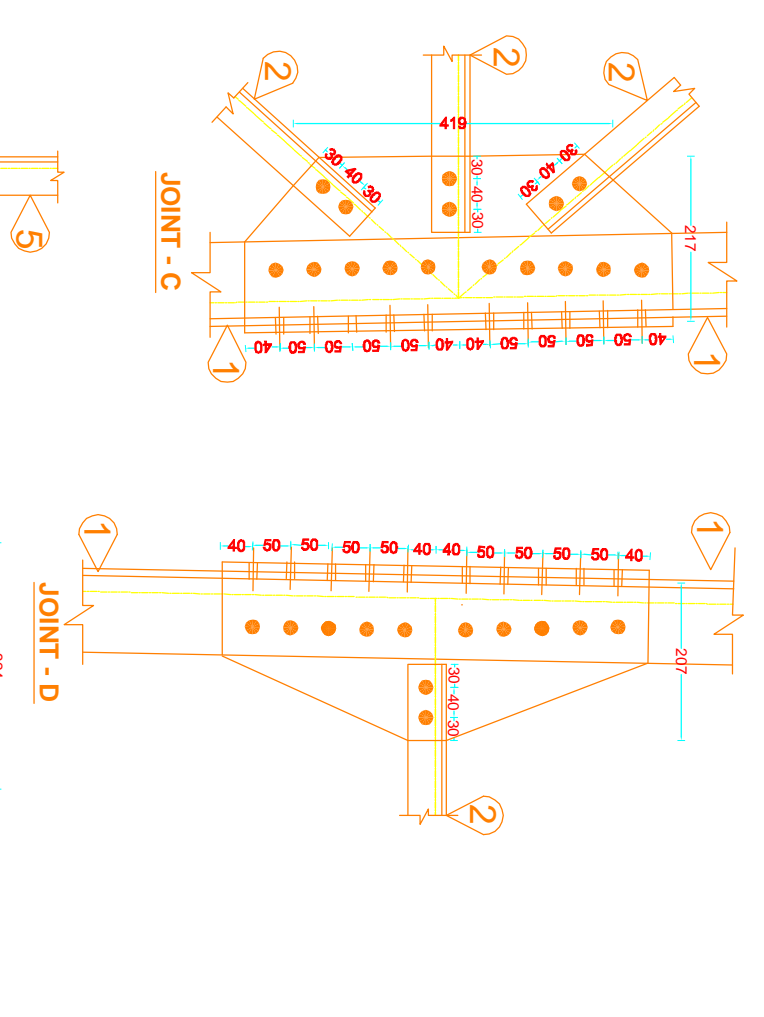
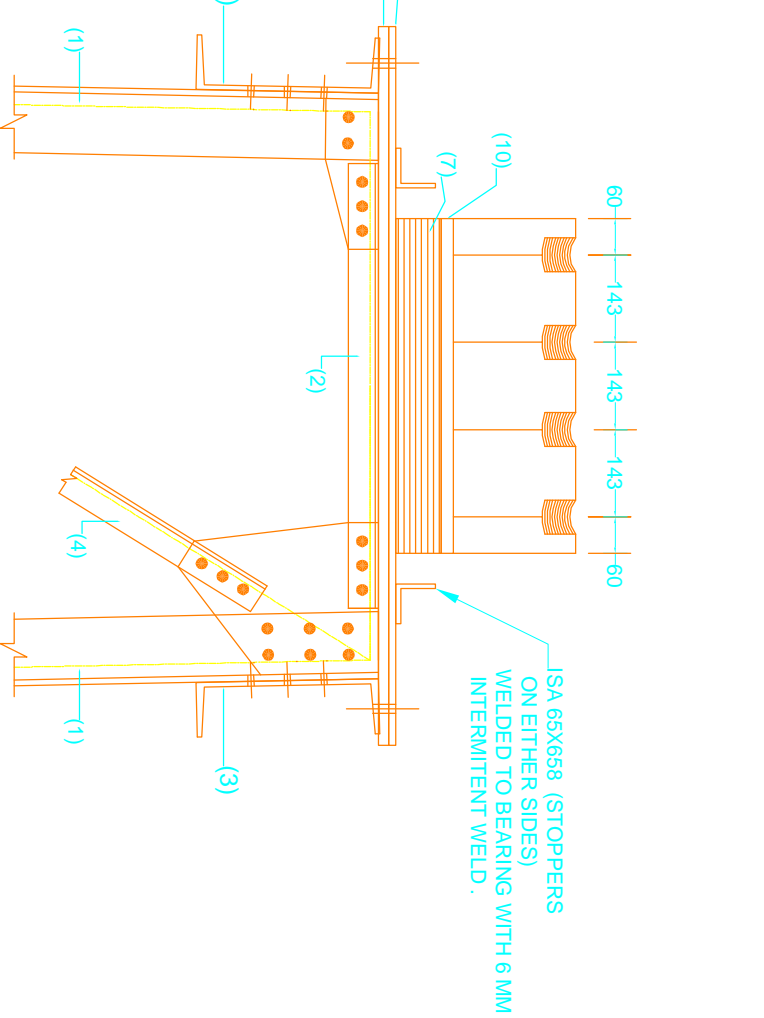
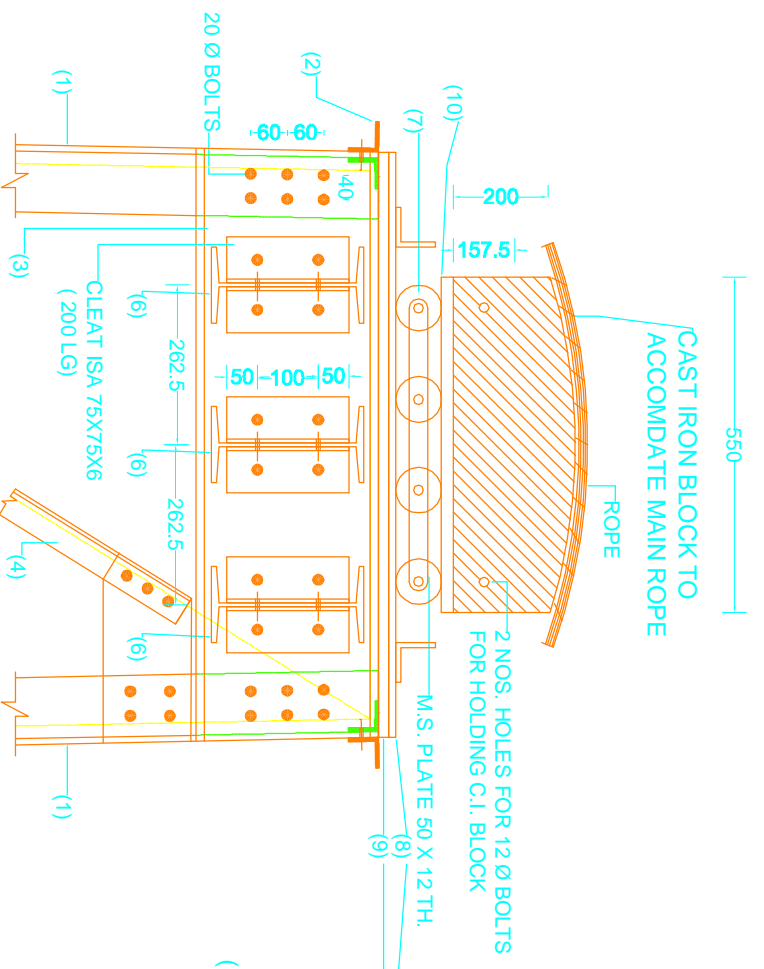


MEMBER SCHEDULE :-

| MEMBER NO. | SECTIONS | |
|------------|------------------------|--|
| 1 | ISA 130 X 130 X 12 TH. | |
| 2 | 2 ISA 50 X 50 X 6 TH. | |
| 3 | ISMC 300 | |
| 4 | 2 ISA 75 X 75 X 8 TH. | |
| 5 | 2 ISA 50 X 50 X 6 TH. | |

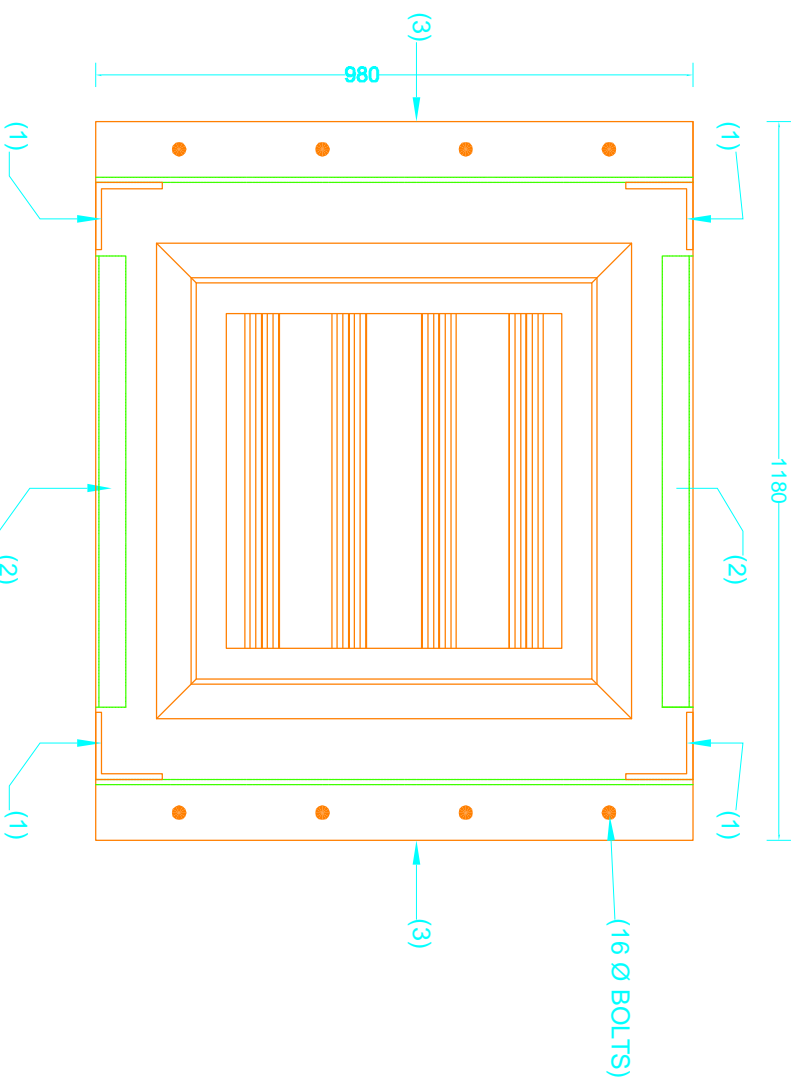
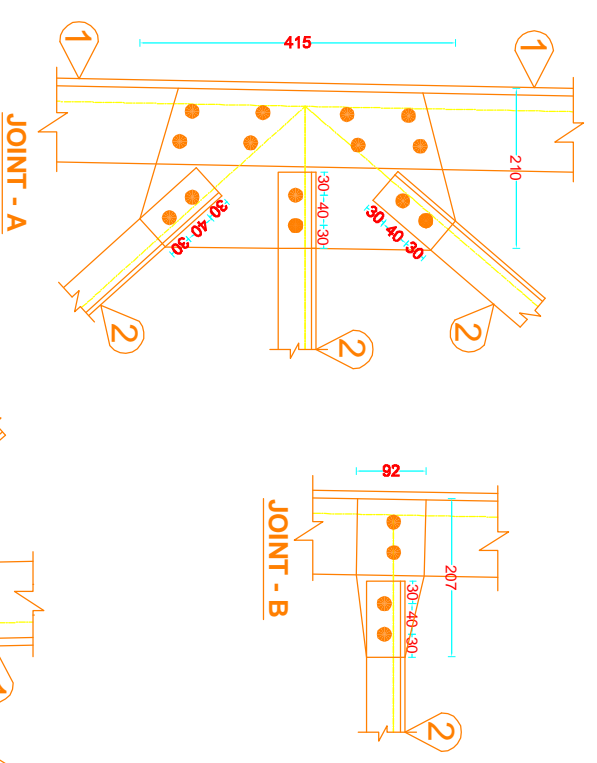
| | | |
|----|--|--|
| 6 | ISMB 250 | |
| 7 | 4 NOS. M.S. ROLLERS (550 LG) 75 Ø @ 150 C/C | |
| 8 | BEARING PLT. 1180 X 980 X 12 TH. | |
| 9 | BEARING PLT. 11800 X 980 X 16 TH. | |
| 10 | TOP BASE CUSHION PLT. 550 X 550 X 20 TH. | |

| ISSUE | DATE | DESCRIPTION | MADE BY | APPROVED |
|---|------|-------------|---------|----------|
| <p>AMENDMENTS</p> | | | | |
| <p>TOWER DETAIL - 1</p> | | | | |
| <p>PROJECT PROPOSED 114 M C/C SPAN FOOT JEEPABLE SUSPENSION BRIDGE OVER RIVER CHENAB ON ATHOL-GULABGARH ROAD.</p> | | | | |
| <p>CLIENT D.G.M., J.K.P.C.C., KISHTWAR</p> | | | | |
| <p>CONTRACTOR</p> | | | | |
| DRAWN | | SCALE | | |
| CHECKED | | RELEASED | | |
| APPROVED | | EXECUTION | | |
| <p>HIGHRISE DESIGNERS ENGINEERS AND STRUCTURAL CONSULTANTS 59/4, NANAK NAGAR JAMMU (O) 2438661</p> | | | | |
| <p>DRG. NO. 1139-STR-09</p> | | | | DATE |
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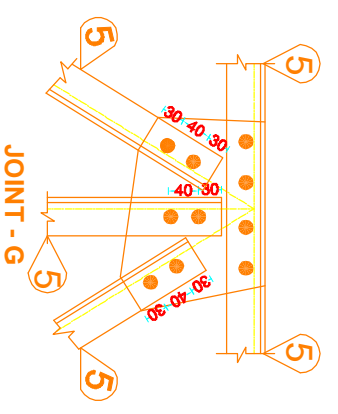
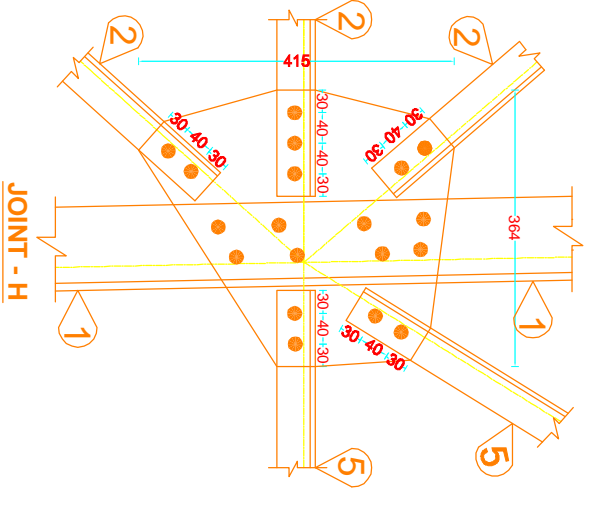


VIEW A - A
SADDLE BLOCK DETAIL

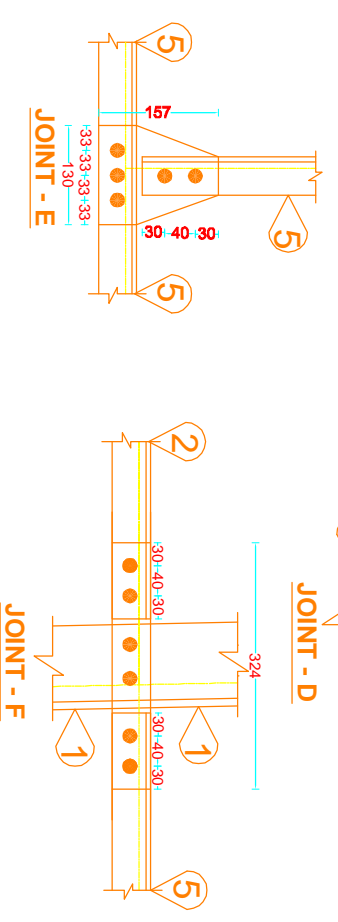
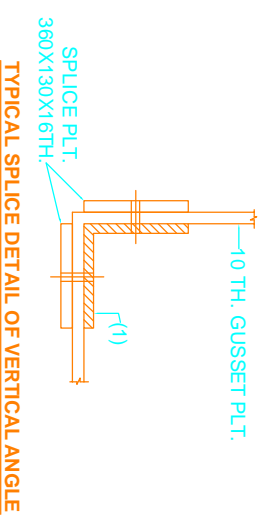
VIEW B - B




PLAN OF BASE PLT.
ROLLER BASE PLT. SADDLE PLT. DETAILS



BOLTS FOR SPLICE 22 DIA BOLT
ALL OTHER BOLTS ARE 16 DIA BOLT



| ISSUE | DATE | DESCRIPTION | MADE BY | APPROVED |
|---|------|-------------|---------------------------|----------------|
| AMENDMENTS | | | | |
| TITLE TOWER DETAIL - 2 | | | | |
| PROJECT PROPOSED 114 M C/C SPAN FOOT JEEPABLE SUSPENSION BRIDGE OVER RIVER CHENNAI ON ATHOLLIGULABGARH ROAD. | | | | |
| CLIENT D.G.M. , J.K.P.C.C. , KISHTWAR | | | | |
| CONTRACTOR | | | | |
| DRAWN NITIN GUPTA | | SCALE | | |
| CHECKED | | RELEASED | | |
| APPROVED M. L. PURI | | FOR | | EXECUTION |
|  HIGHRISE DESIGNERS ENGINEERS AND STRUCTURAL CONSULTANTS 59/4, NANAK NAGAR JAMMU (O) 2438661 | | | | |
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