RAPID SPAN STRUCTURES LTD.

24.384m OILFIELD PORTABLE PANELIZED TIMBER DECK

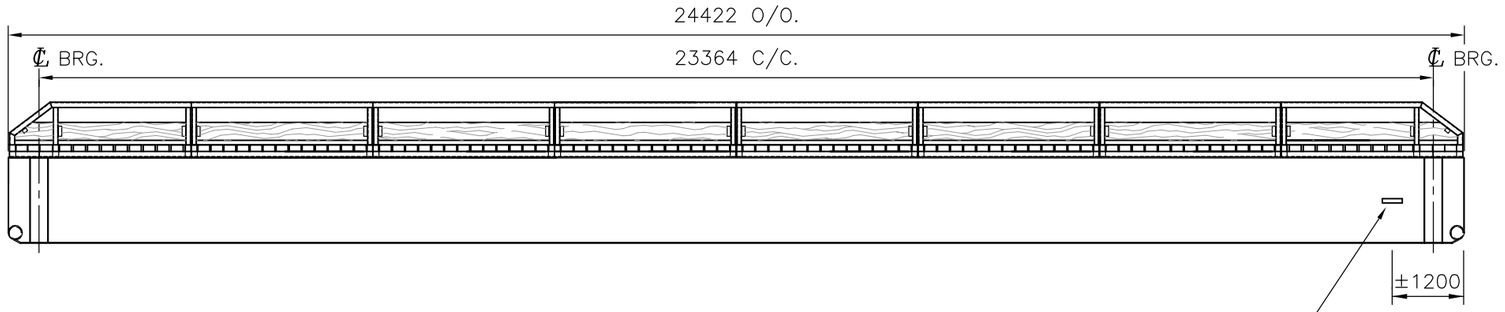
ASSOCIATED ENGINEERING

DRAWING SCHEDULE			
DRAWING No.	DESCRIPTION	REV.	DATE
3751-SK-711	GENERAL ARRANGEMENT	2	04/09/20
3751-SK-712	STEEL DETAILS - SHT.1	4	04/12/14
3751-SK-713	STEEL DETAILS - SHT.2	3	04/10/20
3751-SK-714	PANELIZED TIMBER DECK DETAILS	1	04/11/05

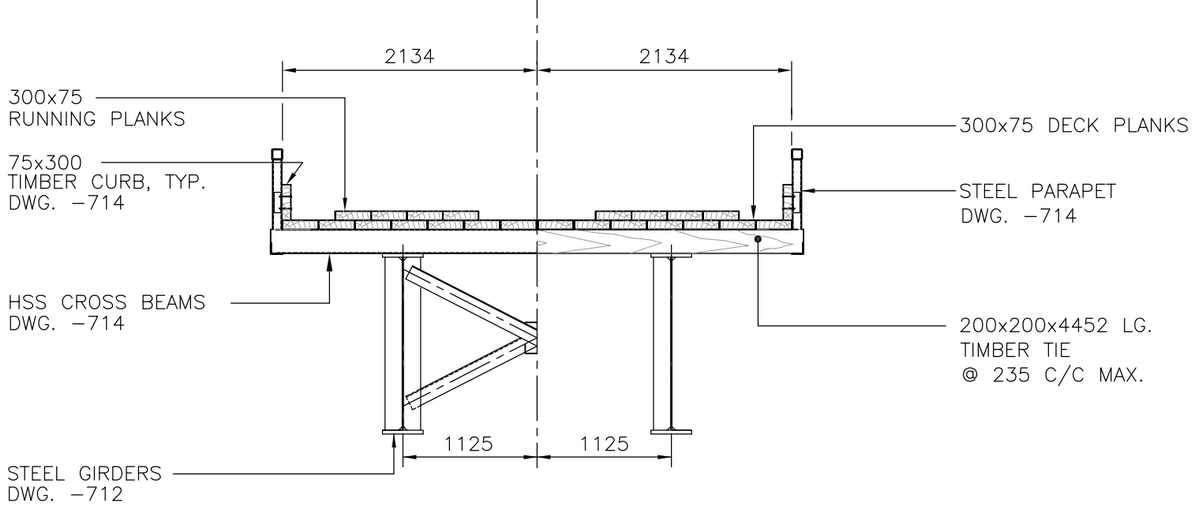
GEOTECHNICAL ENGINEERING IS NOT INCLUDED WITHIN THE SCOPE OF SERVICES BEING PROVIDED BY ASSOCIATED ENGINEERING (AB.) LTD. THEREFORE THIS DESIGN HAS BEEN PREPARED WITHOUT THE BENEFIT OF GEOTECHNICAL FIELD INVESTIGATION OR ADVICE. GROUND CONDITIONS MAY VARY. THE FOUNDATION REQUIREMENTS AND BRIDGE CONCEPT MAY NEED TO BE MODIFIED TO ACCOMMODATE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION. ASSOCIATED ENGINEERING (AB.) LTD. ACCEPTS NO LIABILITY OR RESPONSIBILITY FOR DELAY OR ADDITIONAL COSTS WHICH MAY RESULT IF GROUND CONDITIONS VARY FROM THOSE ASSUMED. PLEASE CONTACT ASSOCIATED ENGINEERING (AB.) LTD. IF GEOTECHNICAL DATA AND RECOMMENDATIONS ARE AVAILABLE FOR THIS BRIDGE CROSSING OR IF THE OWNER WISHES TO EXPAND THE ENGINEERING SERVICES TO INCORPORATE THIS EXTRA WORK.

AutoCAD File : 3751-s10.DWG
Last Edit Date: 03/12/11

AUTOCADD DRAWING No. 3751-711.DWG



ELEVATION
1:100

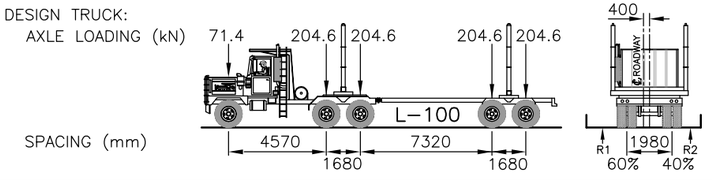


1/2 DIAPHRAGM SECTION
1:50

1/2 TYPICAL SECTION
1:50

NOTES

1. FOR INSTALLATION BY OTHERS, ONTO SUBSTRUCTURE BY OTHERS, NO RESPONSIBILITY CAN BE ACCEPTED FOR WORK BY OTHERS.
2. DESIGN: CAN/CSA-S6-88 (MODIFIED).
   LOADING: L100 (90,680kg. G.V.W.) e=400, DIST.=60/40.
3. DESIGN LIFE: 50 YEARS (EXCEPT DECK).
4. FATIGUE: 500,000 CYCLES.
5. STEEL: CSA G40.21M GRADE 350AT CAT. 3 (PLATE)
   GRADE 350A (ANGLES)
   GRADE 350W (HSS & W-SECTIONS)
   FABRICATE GIRDERS AS FRACTURE CRITICAL MEMBERS.
   NON-WEATHERING STEEL SECTIONS TO BE PAINTED USING APPROVED PAINT SYSTEM
6. WELDING: CSA W59, WELDS TO BE 6mm FILLET WELDS U/N., X-RAY TENSION FLANGE BUTT WELDS, STEEL FABRICATORS SHALL BE QUALIFIED TO CSA W47.1, DIV. 1 OR DIV. 2
7. PIPE: ASTM A252 GRADE 2.
8. BOLTS: ASTM A325 TYPE 3 M22 U/N. JOB INSPECTION TORQUE 810 N m
9. DECK HARDWARE: HOT DIP GALVANIZED OR GRADE 350A, BOLTS ASTM A307 GALVANIZED.
10. DECK CONSTRUCTION: TO MOF DWG. NOS. ENG-94-1-01,02,04 EXCEPT AS NOTED.
11. TIMBER: SPF NO. 2 GRADE OR BETTER, ROUGH SAWN. TIES AND DECK PLANKS TO BE CCA TREATED; CURBS & RUNNING PLANKS, UNTREATED.
12. BRIDGE IDENTIFICATION: THE BRIDGE SHALL HAVE ITS LOAD RATING, DATE OF MANUFACTURE, MANUFACTURER'S NAME, AND THE SERIAL NUMBER CLEARLY STAMPED ON PLATE FIXED TO ONE SIDE OF THE STRUCTURE. THE HEIGHT OF LETTERING USED SHALL BE A MINIMUM OF 60mm UNLESS OTHERWISE SPECIFIED.
13. DESIGN TRUCK:



PERMIT TO PRACTICE
ASSOCIATED ENGINEERING ALBERTA LTD.
Signature _____
Date _____
PERMIT NUMBER: P 3979
The Association of Professional Engineers, Geologists and Geophysicists of Alberta

REV	DATE Y	M	D	REVISION DESCRIPTION	ENG	DWN
1	04	01	05	UPDATED TITLE	M.S.	P.L.
2	04	09	20	TIMBER DECK	AY	CKL

RAPID SPAN STRUCTURES LTD.

24.384m OILFIELD PORTABLE PANELIZED TIMBER DECK
GENERAL ARRANGEMENT

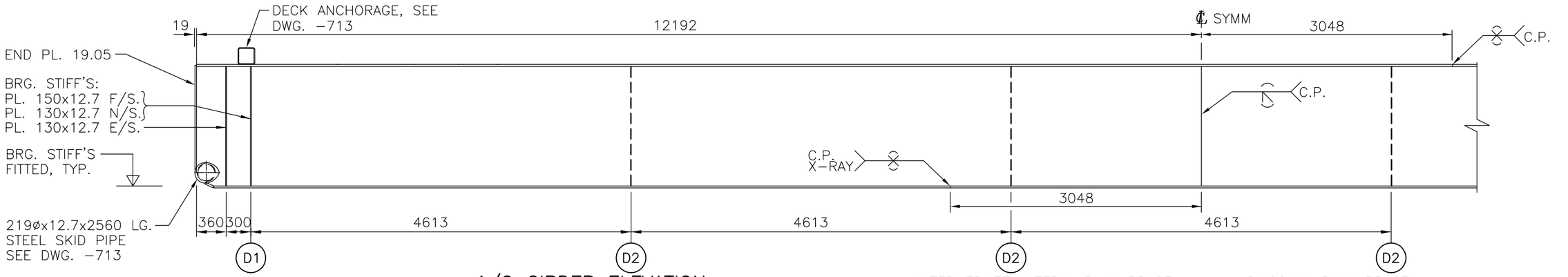
ASSOCIATED ENGINEERING

DESIGN: M.R.S.	
CHECK: M.G.J.	
DRAWN: P.L.	
DATE: JANUARY 2004	
SCALE: AS SHOWN	
JOB No. 993751	
DWG. No. 3751-SK-711	2

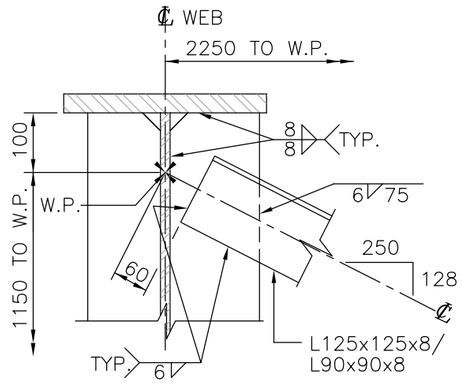
ALL DRAWINGS SUPERSEDED PRIOR TO REVISION

X-REF. ATTACHMENTS:

AUTOCADD DRAWING No. 3751-712.DWG



1/2 GIRDER ELEVATION
1:50



DIAPHRAGM CONN. DETAIL
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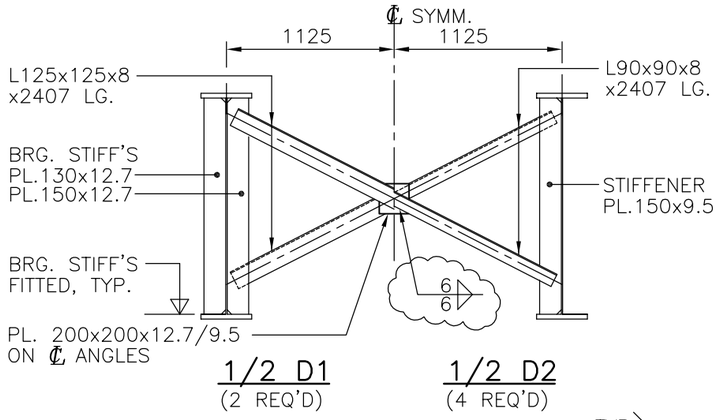
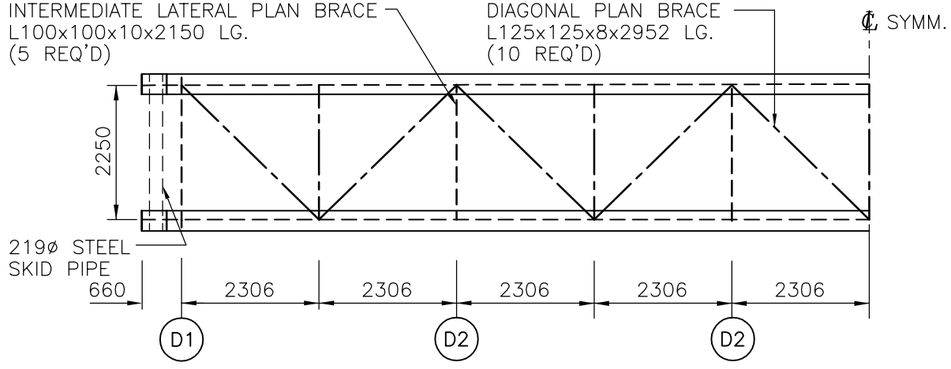


1/2 D1 (2 REQ'D)

1/2 D2 (4 REQ'D)

DIAPHRAGM DETAILS
1:40



1/2 GIRDER PLAN
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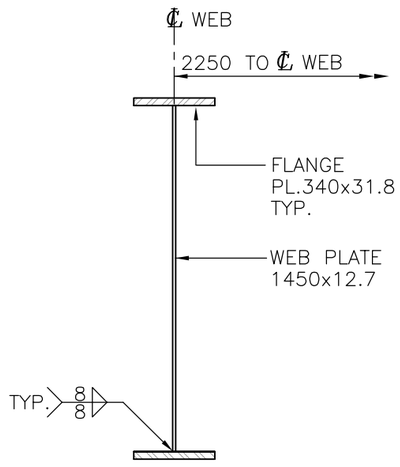

TYP. GIRDER SECTION
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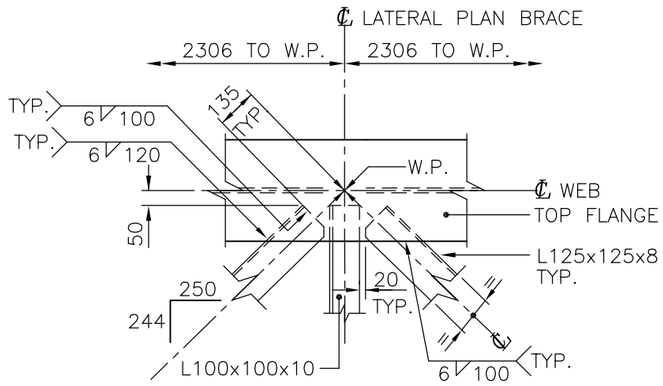
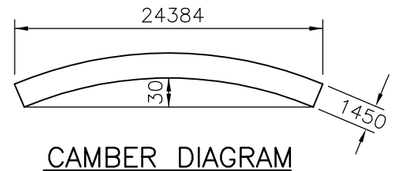


PLAN BRACE CONNECTION DETAILS
1:20



CAMBER DIAGRAM
N.T.S.

PERMIT TO PRACTICE
ASSOCIATED ENGINEERING ALBERTA LTD.
Signature _____
Date _____
PERMIT NUMBER : P 3979
The Association of Professional Engineers, Geologists and Geophysicists of Alberta

REV	DATE Y	M	D	REVISION DESCRIPTION	ENG	DWN
1	04	01	05	UPDATED TITLE	M.S.	P.L.
2	04	09	20	GENERAL REVISION	AY	CKL
3	04	10	20	DECK ANCHORAGE & WELD ADDED	AY	AY
4	04	12	14	FILLER PLATE WELD	AY	AY

RAPID SPAN STRUCTURES LTD.

24.384m OILFIELD PORTABLE PANELIZED TIMBER DECK
STEEL GIRDER DETAILS – SHT.1

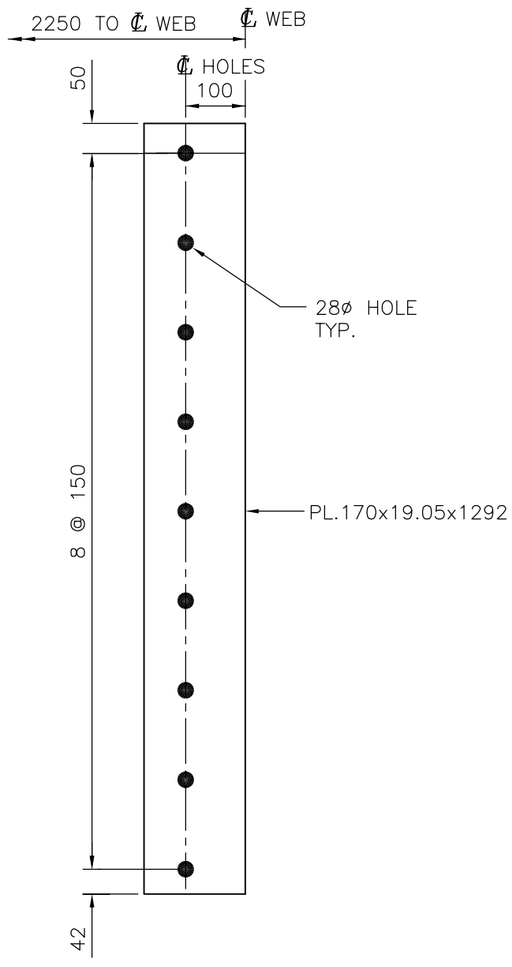
ASSOCIATED ENGINEERING

DESIGN: M.R.S.	
CHECK: M.G.J.	
DRAWN: P.L.	
DATE: JANUARY 2004	
SCALE: AS SHOWN	
JOB No. 993751	
DWG. No. 3751-SK-712	4

ALL DRAWINGS SUPERSEDED PRIOR TO REVISION

X-REF. ATTACHMENTS:

AUTOCADD DRAWING No. 3751-713.DWG



END PLATE DETAIL
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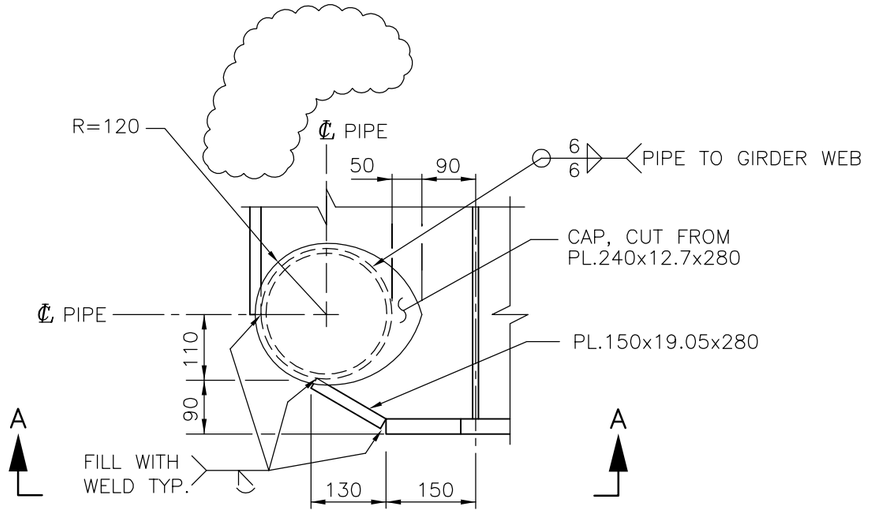

SKID PIPE DETAILS
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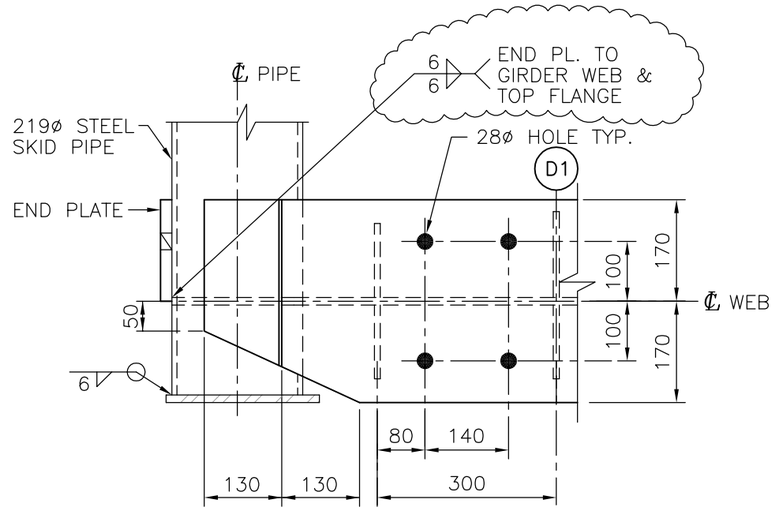
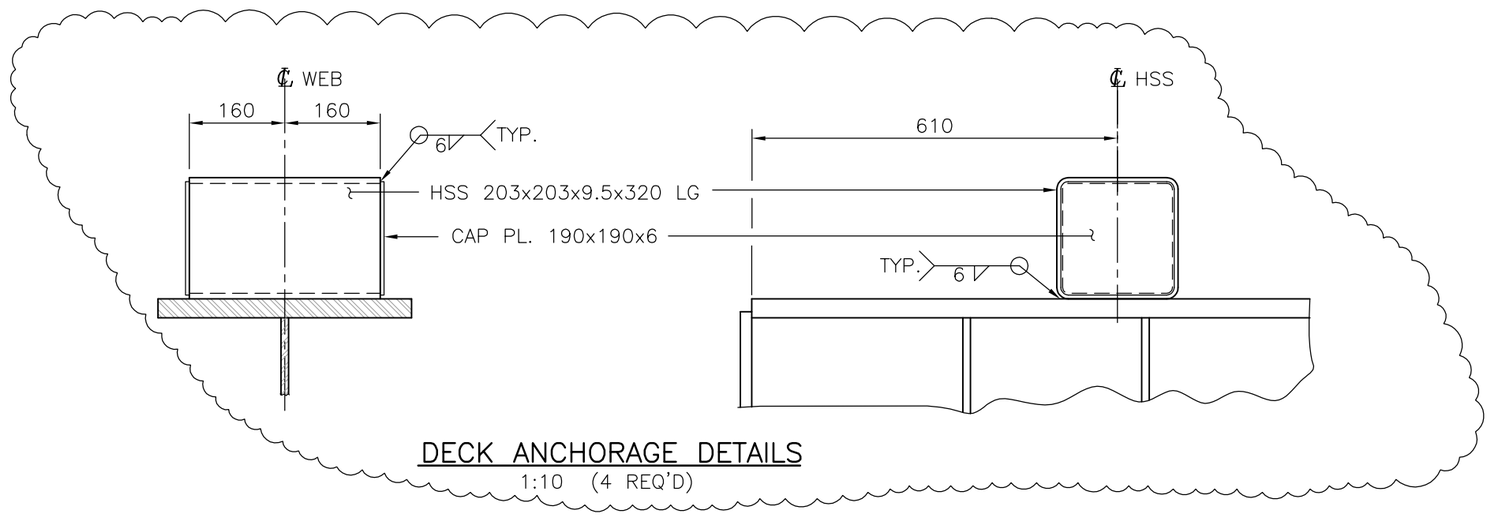


SECTION A–A
1:10



DECK ANCHORAGE DETAILS
1:10 (4 REQ'D)

X-REF. ATTACHMENTS:

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ASSOCIATED ENGINEERING ALBERTA LTD.
Signature _____
Date _____
PERMIT NUMBER : P 3979
The Association of Professional Engineers, Geologists and Geophysicists of Alberta

REV	DATE Y	M	D	REVISION DESCRIPTION	ENG	DWN
1	04	01	05	UPDATED TITLE	M.S.	P.L.
2	04	09	20	GENERAL REVISION	AY	CKL
3	04	10	20	DECK ANCHORAGE DETAILS ADDED & WELD DETAILS	AY	AY

RAPID SPAN STRUCTURES LTD.

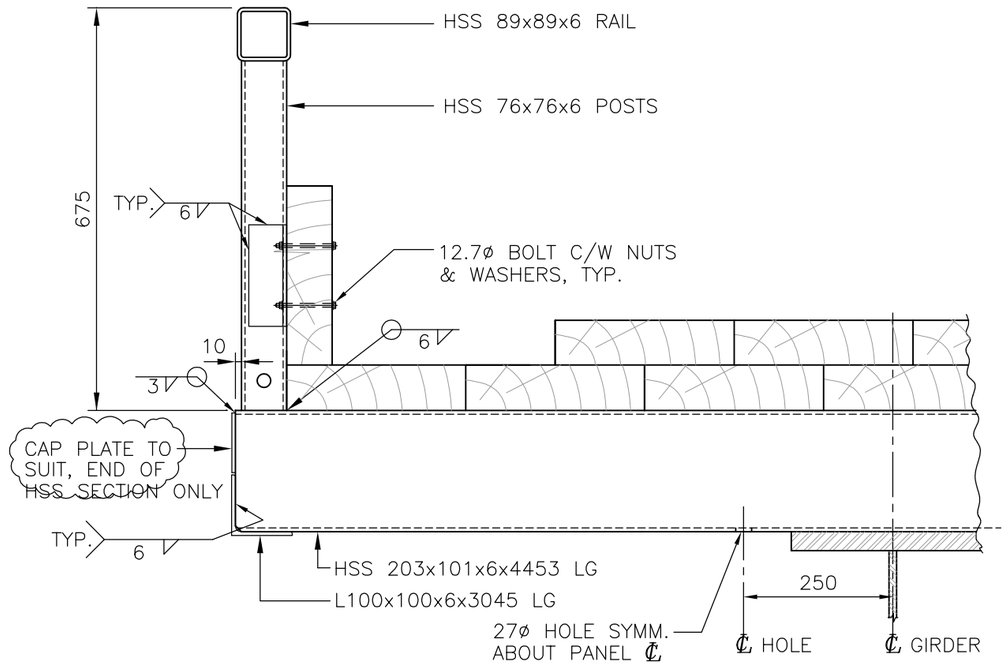
24.384m OILFIELD PORTABLE PANELIZED TIMBER DECK
STEEL GIRDER DETAILS – SHT.2

ASSOCIATED ENGINEERING

DESIGN: M.R.S.	
CHECK: M.G.J.	
DRAWN: P.L.	
DATE: JANUARY 2004	
SCALE: AS SHOWN	
JOB No. 993751	
DWG. No. 3751-SK-713	3

ALL DRAWINGS SUPERSEDED PRIOR TO REVISION

AUTOCADD DRAWING No. 3751-714.DWG



PARAPET DETAIL
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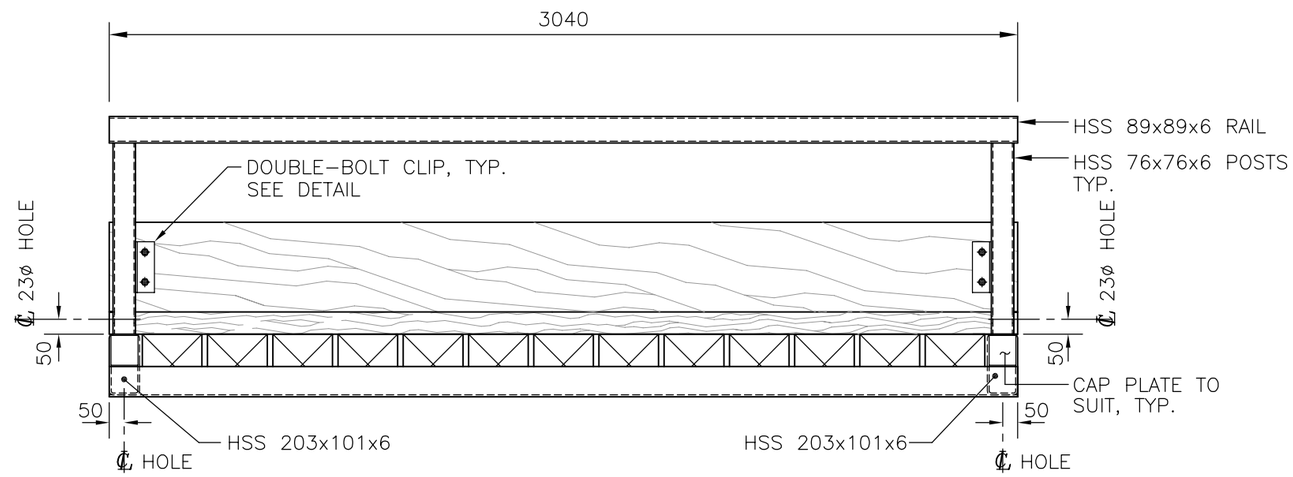
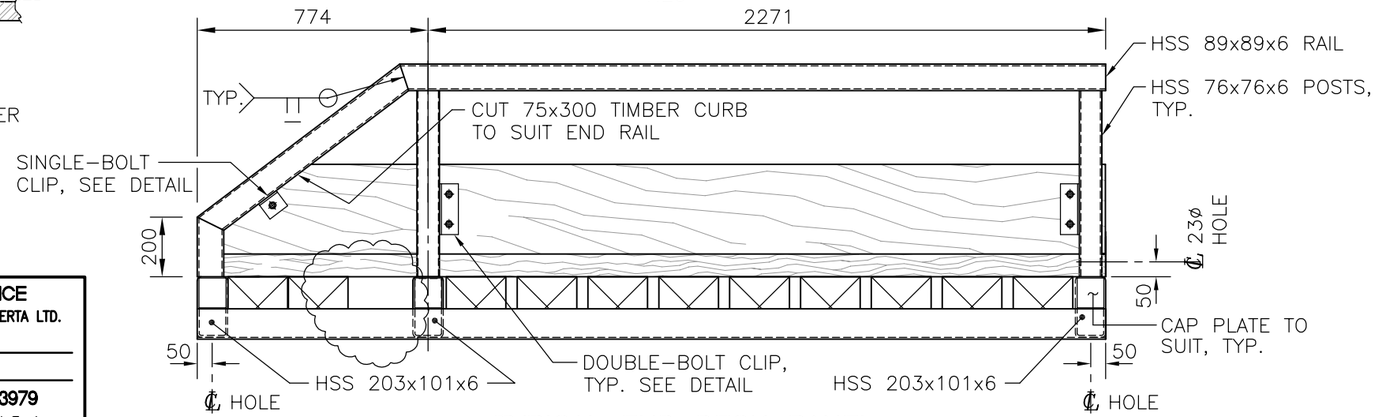
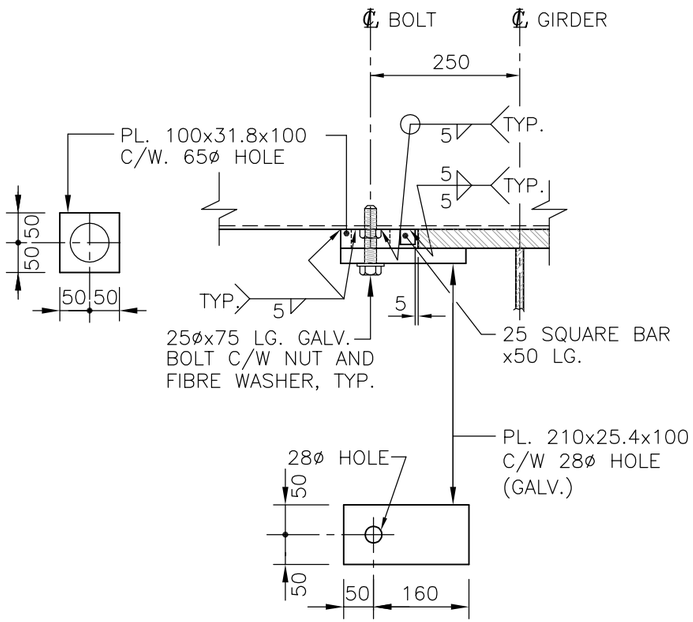


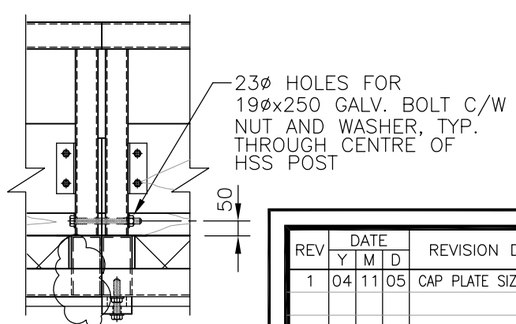
TYPICAL INTERIOR DECK PANEL
1:20



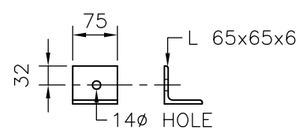
TYPICAL END DECK PANEL
1:20



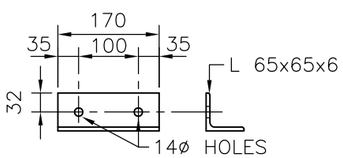
DECK/GIRDER CLIP POINT DETAIL
1:10



DECK CLIP DETAIL
1:20



SINGLE-BOLT CLIP
1:10



DOUBLE-BOLT CLIP
1:10

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Date _____
PERMIT NUMBER : P 3979
The Association of Professional Engineers, Geologists and Geophysicists of Alberta

REV	DATE Y	M	D	REVISION DESCRIPTION	ENG	DWN
1	04	11	05	CAP PLATE SIZE & TIMBER TIE	AY	AY

RAPID SPAN STRUCTURES LTD.

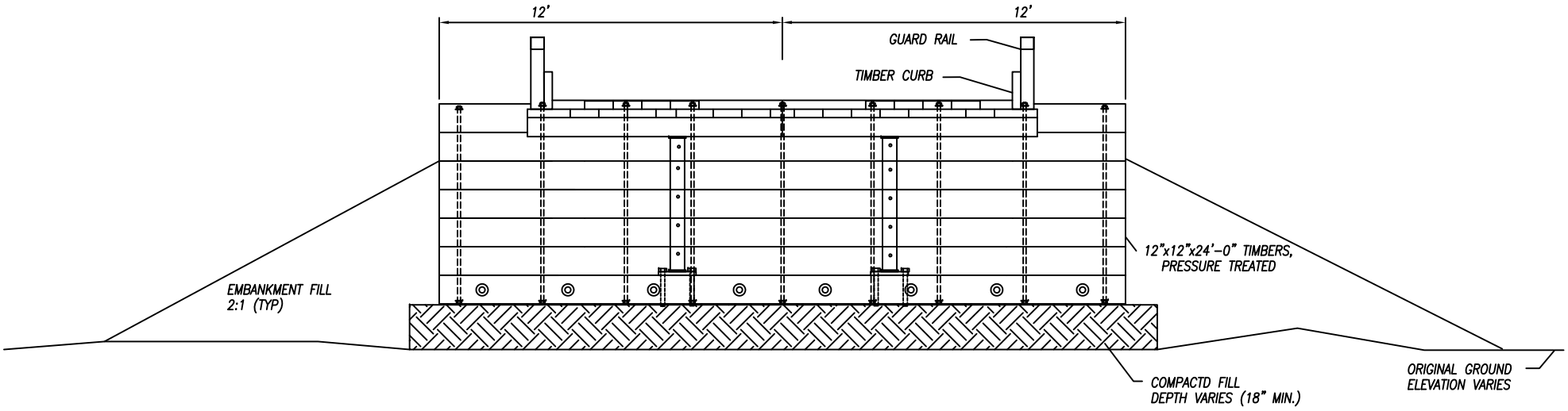
24.384m OILFIELD PORTABLE PANELIZED TIMBER DECK
PANELIZED TIMBER DECK DETAILS

DESIGN:	M.R.S.	
CHECK:	M.G.J.	
DRAWN:	C.K.L.	
DATE:	SEPTEMBER 2004	
SCALE:	AS SHOWN	
JOB No.	993751	
DWG. No.	3751-SK-714	1

ASSOCIATED ENGINEERING

ALL DRAWINGS SUPERSEDED PRIOR TO REVISION

X-REF. ATTACHMENTS:



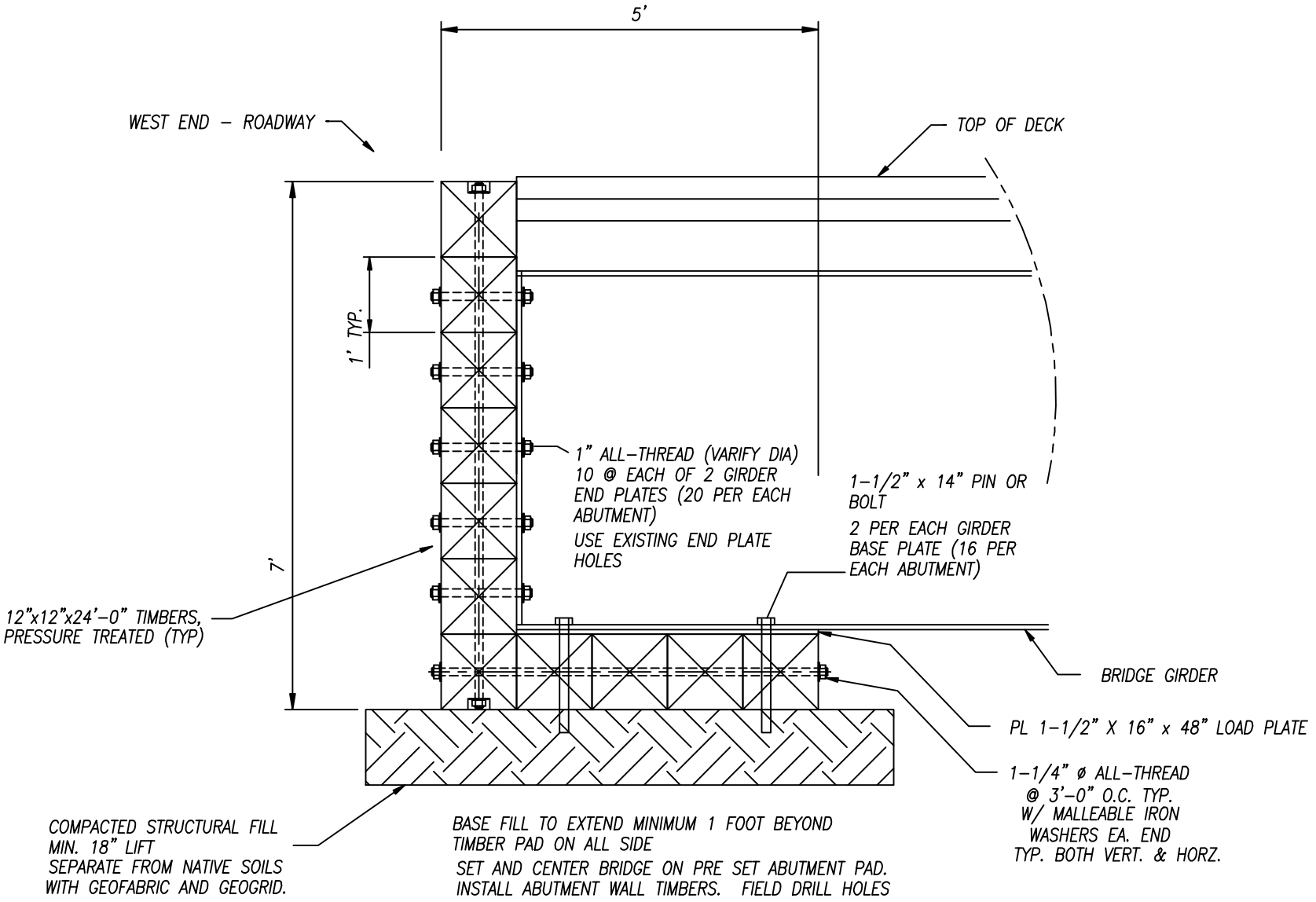
BRIDGE ABUTMENT INSIDE FACE VIEW

NTS

BY: S ROWLAND, RECON, LLC
DATE: 4-10-09

NOTES:

BRIDGE ABUTMENT CONSTRUCTION DETAILS FOR BRIDGES AT LITTTLE NENANA RIVER, EAST MIDDLE RIVER, WEST MIDDLE RIVER. ALL BRIDGES TO BE INSTALLED PER PERMIT REQUIREMENTS AND AT LOCATIONS FIELD STAKED BY PROJECT ENGINEER.



ABUTMENT CROSS SECTION

NTS

BY: S ROWLAND, RECON, LLC

DATE: 4–10–09