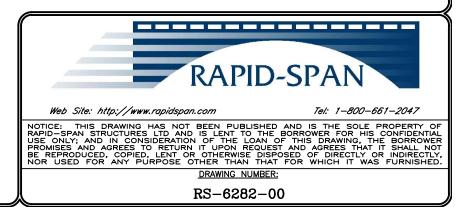
| TA         | ABLE OF CONTENTS - JOB # (                  | 3282 |             |
|------------|---|------|-------------|
| DWG. NO.   | DESCRIPTION OR NAME                         | REV. | DATE:       |
| RS-6282-01 | GENERAL NOTES                               | 0    | JAN. 23, 14 |
| RS-6282-02 | GENERAL LAYOUT                              | 0    | JAN. 23, 14 |
| RS-6282-03 | SUPERSTRUCTURE LAYOUT                       | 0    | JAN. 23, 14 |
| RS-6282-04 | GIRDER I LAYOUT                             | 0    | JAN. 23, 14 |
| RS-6282-05 | GIRDER II LAYOUT                            | 0    | JAN. 23, 14 |
| RS-6282-06 | FIELD SPLICE DETAILS                        | 0    | JAN. 23, 14 |
| RS-6282-07 | GIRDER AND LATERAL BRACE DETAILS            | 0    | JAN. 23, 14 |
| RS-6282-08 | DIAPHRAGM DETAILS                           | 0    | JAN. 23, 14 |
| RS-6282-09 | DECK CLIP PLATE & BEARING SANDWICH DETAILS  | 0    | JAN. 23, 14 |
| RS-6282-10 | END DECK PANEL STEEL FRAME DETAILS          | 0    | JAN. 23, 14 |
| RS-6282-11 | INTERMEDIATE DECK PANEL STEEL FRAME DETAILS | 0    | JAN. 23, 14 |
| RS-6282-12 | END TIMBER DECK PANEL ASSEMBLY              | 0    | JAN. 23, 14 |
| RS-6282-13 | INTERMEDIATE TIMBER DECK PANEL ASSEMBLY     | 0    | JAN. 23, 14 |

# NORTHSTAR ENERGY SERVICES INC. 30.480 METER L-100 OILFIELD PORTABLE



## **REFERENCE DRAWINGS:**

- ASSOCIATED ENGINEERING DRAWING NUMBERS 2784-01-3-1010 TO 1014.
   ASSOCIATED ENGINEERING DRAWING NUMBERS REF-03-001 AND REF-03-004.
   ASSOCIATED ENGINEERING DRAWING NUMBERS STD-E-050-10

#### STEEL SPECIFICATIONS:

- ALL STEEL PLATE SHALL COMPLY TO CSA-G40.21-13 GRADE 350AT CAT 3.
   ALL STEEL ANGLES SHALL COMPLY TO GRADE 350A.
   ALL WELDING IN ACCORDANCE WITH C.S.A. W-59. WELD METAL SHALL MEET THE CVN TOUGHNESS REQUIREMENTS OF TABLE 10.14 OF CAN/CSA-S6-06 FOR A MINIMUM SERVICE TEMPERATURE OF < -40° C.</li>
- FABRICATE BOTTOM FLANGES AND GIRDER WEBS AS FRACTURE CRITICAL MEMBERS IN ACCORDANCE WITH CLAUSE 10.23 OF CAN/CSA-S6-06.

#### **GUIDERAIL SPECIFICATIONS:**

- HSS SHALL CONFORM TO ASTM A500 GRADE C. OR CSA G40.21 GRADE 350W. PAINTED.
- ANGLES AND PLATE SHALL CONFORM TO CSA G40.21 GRADE 350W. PAINTED.
- SAND BLAST RAILS AND FLOOR BEAMS TO SSPC SP-6 AFTER FABRICATION AND APPLY 2.5 TO 3.5 MILS DFT ENAMEL PAINT. COLOUR: SAFETY YELLOW

## TIMBER SPECIFICATIONS:

- LUMBER GRADES AS PER CANADIAN LUMBER STANDARDS ADMINISTRATIVE BOARD (C.L.S.A.B.) REQUIREMENTS.
- ALL UNTREATED TIMBER TO BE ROUGH SAWN # 2 OR BETTER SPF.
   ALL TREATED TIMBER TO BE CCA ROUGH SAWN # 2 OR BETTER SPF.

#### HARDWARE SPECIFICATIONS:

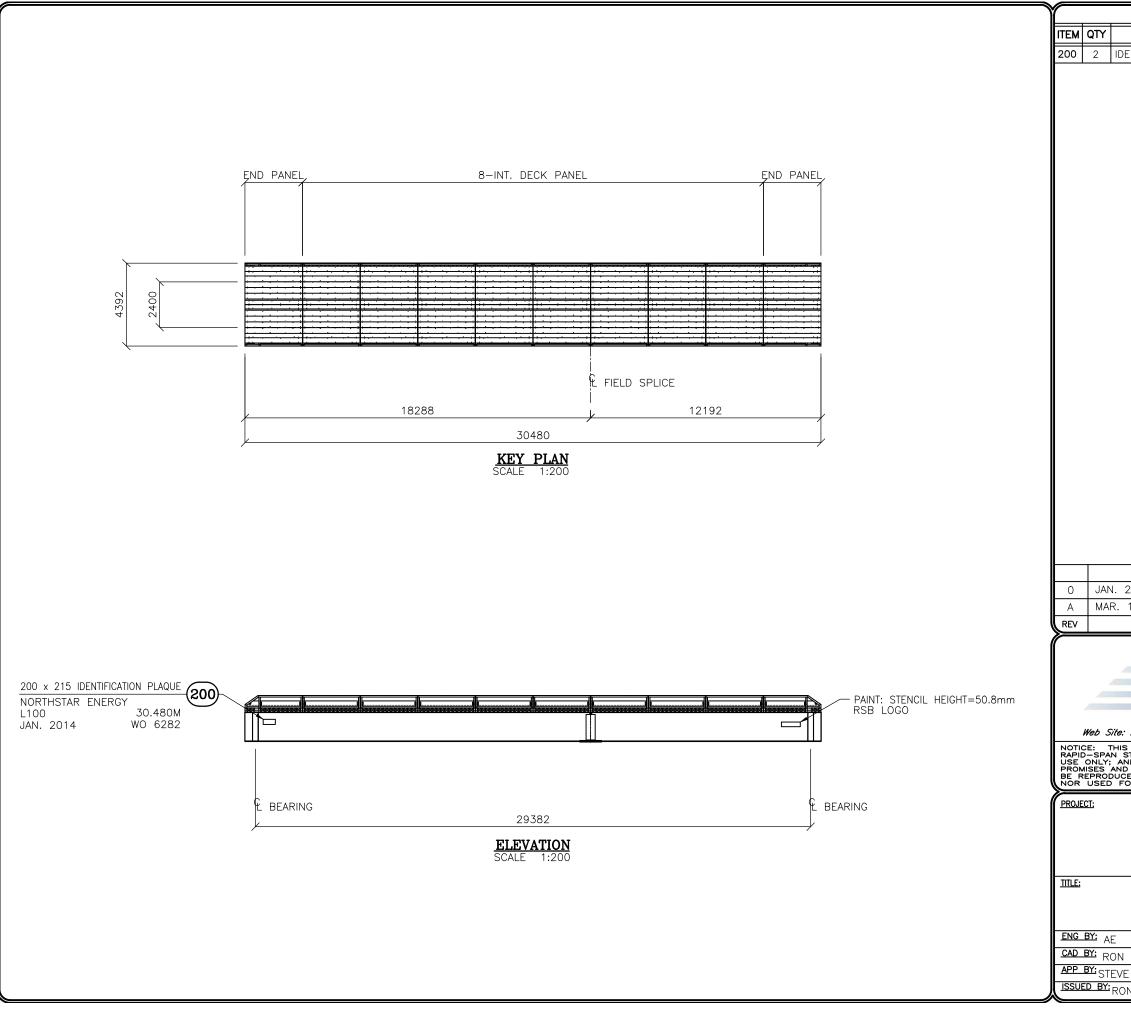
- FASTENERS SHALL CONFORM TO ASTM A307 GALVANIZED IN ACCORDANCE WITH CSA G164.

# NOTES:

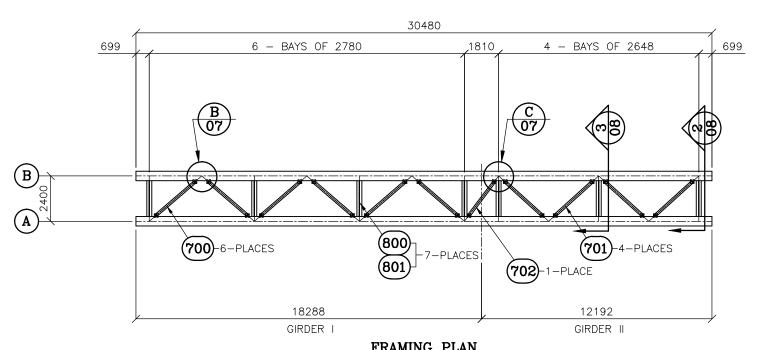
- UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN mm.
- UNLESS OTHERWISE SPECIFIED ALL HOLES TO BE 24mm DIA.



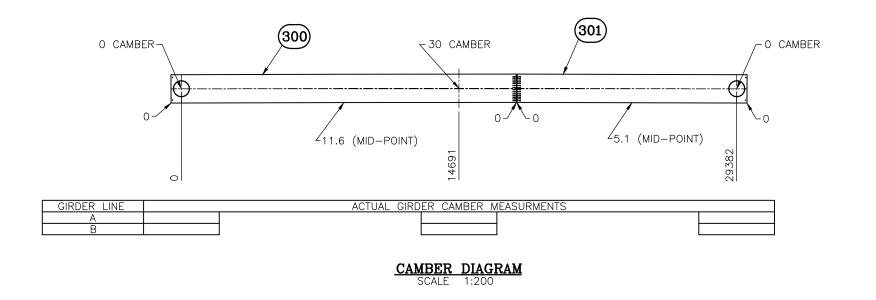
| 0   | JAN. 23, 14    | ISSUED FOR CONSTRUCTION  | RR                   |  |  |  |
|---|----------------|--|----------------------|--|--|--|
| А   | MAR. 11, 13    | PRELIMINARY  | RR                   |  |  |  |
| REV   | DATE           | DESCRIPTION  | BY                   |  |  |  |
| RAPID-SPAN<br>Web Site: http://www.rapidspan.com Tel: 1-800-661-2047  |                |  |                      |  |  |  |
| NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF<br>RAPID-SPAN STRUCTURES LID AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL<br>USE ONLY; AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING, THE BORROWER<br>PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT<br>BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY,<br>NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS FURNISHED. |                |  |                      |  |  |  |
| PROJECT:<br>NORTHSTAR ENERGY SERVICES INC.  |                |  |                      |  |  |  |
| IIILE:<br>GENERAL NOTES   |                |  |                      |  |  |  |
| ENG B<br>CAD B<br>APP B   | Y: RON RIEMENS | DATE:         JAN.         2012         LEAD:         RSB         JOB NO.;           DATE:         MAR.         11,         13         SCALE:         SHEET 1           DATE:         SEPT.         25,         13         DRAWING NUMBER:         SHEET 1           DATE:         JAN.         23,         14         RS-6282-01         RS | 6282<br>OF 13<br>REV |  |  |  |



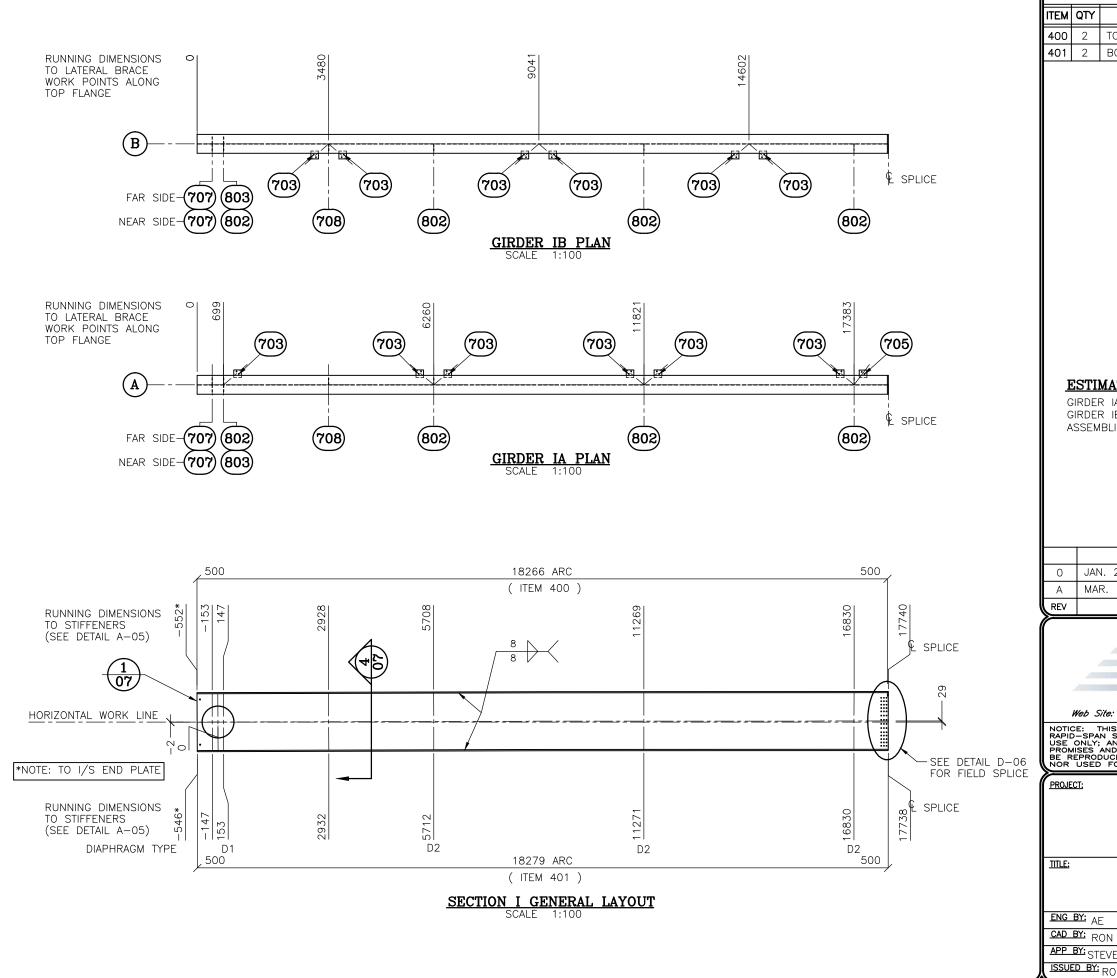
| BILL OF MATERIALS       JOB # 6282         DESCRIPTION OR NAME       SIZE       WT. L         DENTIFICATION PLAQUE       200 × 250  | lbs. total   |
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| 23, 14 ISSUED FOR CONSTRUCTION  |  |
| 23, 14ISSUED FOR CONSTRUCTION11, 13PRELIMINARY  | RR   |
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| 11, 13 PRELIMINARY  | RR   |
| 11, 13     PRELIMINARY       DATE     DESCRIPTION   | RR   |
| 11, 13     PRELIMINARY       DATE     DESCRIPTION   | RR   |
| 11, 13     PRELIMINARY       DATE     DESCRIPTION   | RR   |
| 11, 13     PRELIMINARY       DATE     DESCRIPTION   | RR<br>BY   |
| 11, 13         PRELIMINARY           DATE         DESCRIPTION           RAPID-SPAN         Tel: 1-800-661-204   | RR<br>BY   |
| 11, 13         PRELIMINARY           DATE         DESCRIPTION           RAPID-SPAN         Tel: 1-800-661-204   | RR<br>BY   |
| 11, 13         PRELIMINARY           DATE         DESCRIPTION           RAPID-SPAN         Tel: 1-800-661-204   | RR<br>BY   |
| 11, 13 PRELIMINARY DATE DESCRIPTION RAPID-SPAN  | RR<br>BY   |
| 11, 13       PRELIMINARY         DATE       DESCRIPTION         RAPID-SPAN         Tel: 1-800-661-204         S DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPER<br>STRUCTURES LTD AND IS LENT TO THE BORROWER FOR HIS CONFID<br>ND IN CONSIDERATION OF THE LOAN OF THIS DRAWING, THE BORF<br>D AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHAL<br>CED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIR<br>FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS FURN  | RR<br>BY   |
| 11, 13         PRELIMINARY           DATE         DESCRIPTION           RAPID-SPAN         Tel: 1-800-661-204   | RR<br>BY   |
| 11, 13       PRELIMINARY         DATE       DESCRIPTION         RAPID-SPAN         Tel: 1-800-661-204         S DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPER<br>STRUCTURES LTD AND IS LENT TO THE BORROWER FOR HIS CONFID<br>ND IN CONSIDERATION OF THE LOAN OF THIS DRAWING, THE BORF<br>D AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHAL<br>CED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIR<br>FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS FURN  | RR<br>BY   |
| 11, 13       PRELIMINARY         DATE       DESCRIPTION         RAPID-SPAN         Tel: 1-800-661-204         S DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPER<br>STRUCTURES LTD AND IS LENT TO THE BORROWER FOR HIS CONFID<br>ND IN CONSIDERATION OF THE LOAN OF THIS DRAWING, THE BORF<br>D AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHAL<br>CED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIR<br>FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS FURN  | RR<br>BY   |
| 11, 13       PRELIMINARY         DATE       DESCRIPTION         RAPID-SPAN         Tel: 1-800-661-204         S DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPER<br>STRUCTURES LTD AND IS LENT TO THE BORROWER FOR HIS CONFID<br>ND IN CONSIDERATION OF THE LOAN OF THIS DRAWING, THE BORF<br>D AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHAL<br>CED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIR<br>FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS FURN  | RR<br>BY   |
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| 11, 13       PRELIMINARY         DATE       DESCRIPTION         RAPID-SPAN         RAPID-SPAN         RAPID-SPAN         RAPID-SPAN         STRUCTURES LITA AND IS LENT TO THE BORROWER FOR HIS CONFID DAGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL CED, COPIED, LENT OR OTHER WISE DISPOSED OF DIRECTLY OR INDIR CED, COPIED, LENT OR OTHER WISE DISPOSED OF DIRECTLY OR INDIR CED, COPIED, LENT OR OTHER WISE DISPOSED OF DIRECTLY OR INDIR CED, COPIED, LENT OR OTHER WISE DISPOSED OF DIRECTLY OR INDIR THAT FOR WHICH IT WAS FURN         NORTHSTAR ENERGY SERVICES INC.         GENERAL LAYOUT         DATE: JAN. 2012  | RR<br>BY<br>BY<br>FILENTIAL<br>ROWER<br>LL NOT<br>RECTLY,<br>IISHED. |
| 11, 13       PRELIMINARY         DATE       DESCRIPTION         RAPID-SPAN         RAPID-SPAN         Id: 1-800-661-204         S DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPER         STRUCTURES LTD AND IS LENT TO THE BORROWER FOR HIS CONFID         STRUCTURES LTD AND IS LENT TO THE BORROWER FOR HIS CONFID         DATE TO THE LOAN OF THIS DRAWING, THE BORROWER FOR HIS CONFID         ND IN CONSIDERATION OF THE LOAN OF THIS DRAWING, THE BORROWER FOR HIS CONFID         DATE TO THE BORROWER FOR HIS CONFID         DATE TO THE LOAN OF THIS DRAWING, THE BORROWER FOR HIS CONFID         NORTHERTURN IT UPON REQUEST AND AGREES TO RETURN IT UPON REQUEST AND AGREES TO RETURN IT UPON REQUEST AND AGREES TO RETURN IT SHALL         COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIR         NORTHSTAR ENERGY SERVICES INC.         MORTHSTAR ENERGY SERVICES INC.         DATE: JAN. 2012         LEAD: RSB         JOB NO.:         DATE:   | RR<br>BY<br>BY<br>FILENTIAL<br>ROWER<br>LL NOT<br>RECTLY,<br>IISHED. |



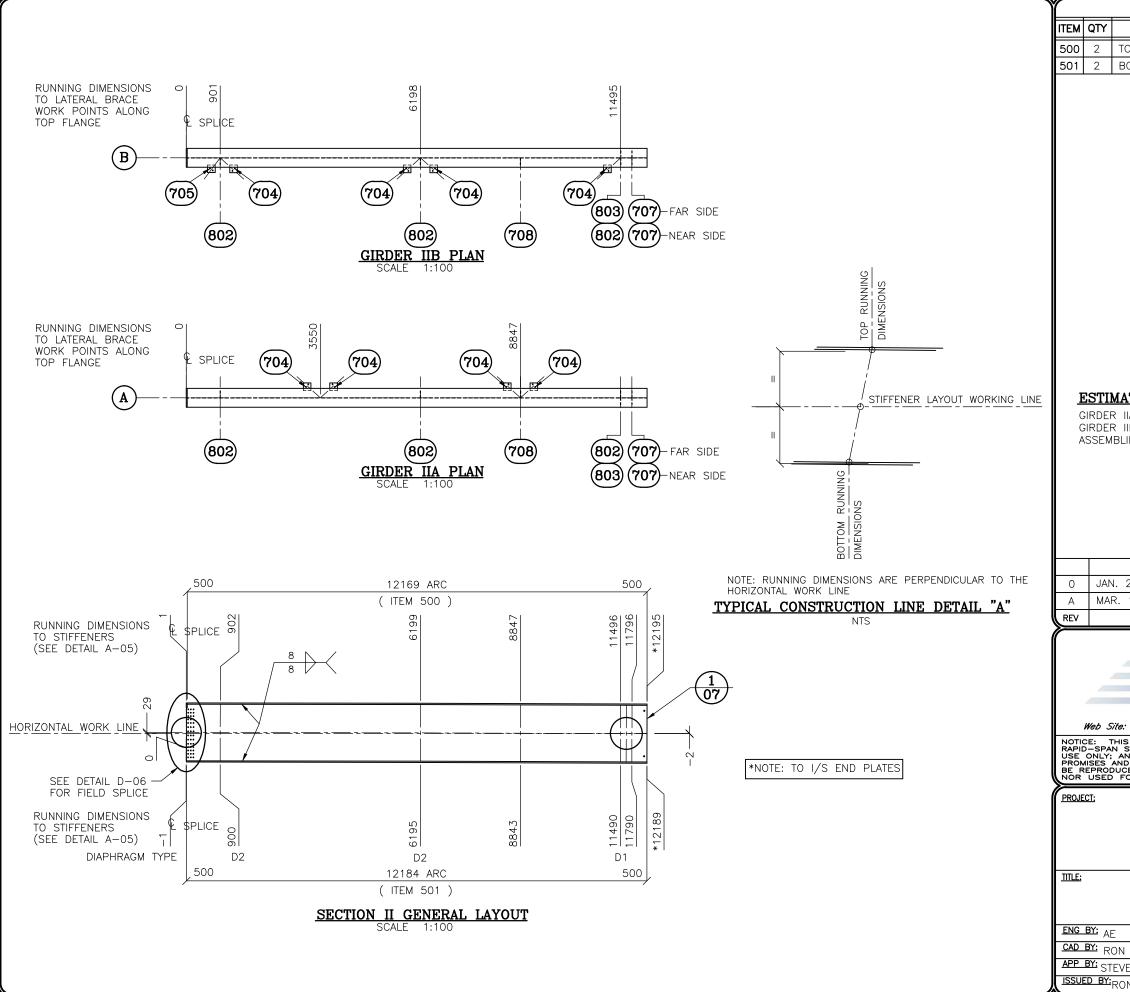




| <b>ITEM</b><br>300<br>301      |   |  | OF  | MATI  | ERIALS –  | · J0]   | B #  | 6282  |  | -      |  |
|--------------------------------|---|--|---|---|---|---|--|---|--|--------|--|
|                                | QTY   | DESCF  | RIPTIC  | N OR  | NAME  |   |  | SIZE  |  | WT. LB | s. Total   |
| 301                            | 2   | CAMBERED   |   |   |   |   |  | 1500 x  |  |        | 047  |
|                                | 2   | CAMBERED   | WEB   | PLATE   |   |   | 12.7 x   | 1500 x  | 12192  | 8      | 031  |
|                                |   |  |   |   |   |   |  |   |  |        |  |
| 0                              |   | N. 23, 14<br>R. 11, 13   |   |   | D FOR CON   | STRUC   | TION   |   |  |        | RR   |
| A<br>REV                       |   | DATE   |   |   |   | DESCRI  | PTION  |   |  |        | RR<br>BY   |
|                                |   | DATE   |   |   |   | DESCRI  | PTION  |   |  |        |  |
| REV                            |   | DATE   | -   | dspan.co  | APIE  | )-5   | SP/<br>Tel   | • 1-800   | -661-  |        | BY   |
| REV                            | CE:<br>D-SPA<br>ONLY<br>AISES<br>REPROI<br>USEI | <i>Site: http://ww</i><br>This drawing<br>IN Structure<br>AND ARCES<br>DUCED, COPIE<br>D FOR ANY P                             | HAS<br>IS LTD<br>ISIDER<br>TO RE<br>D, LET<br>VIRPO | dspan.cd<br>NOT B<br>AND S<br>AND S<br>AND S<br>AND S<br>STAR   | APIE  | D-S   | Ten<br>Ten<br>RROWEF<br>HIS DI<br>OF I<br>R WHI<br>RVIC  | - 1-800<br>HE SOL<br>FOR F<br>AWING,<br>EES TH<br>CH IT V | E PRC<br>IIS CO<br>THE A<br>AT IT<br>Y OR I<br>VAS F |        | BY   |
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| REV<br>NOFIC<br>RASE<br>PROJE  | BY: A   | Site: http://www<br>THIS DRAWING<br>IN STRUCTURE<br>S AND IN CON<br>AND AGREES<br>DUCED, COPIE<br>DUCED, COPIE<br>DUCED, ANY P |   | JPER:<br>ATE: JA<br>ATE: JA                                     | APIC<br>APIC<br>S LENT TO TH<br>S LENT TO THE<br>I UPON REQU<br>DTHERWISE DI<br>HER THAN TH<br>ENERGY                         | ED AN<br>HE BOF<br>JOF T<br>ISST AL<br>ST FO<br>ST SE<br>RE I | Ten<br>Ten<br>RROWER<br>HIS D<br>D OF I<br>R WHI<br>RVIC | ES IN   | JOB N  |        | P<br>P<br>OF<br>OF<br>OF<br>OF<br>OF<br>OF<br>OF<br>OF<br>OF<br>OF |

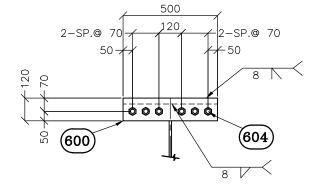


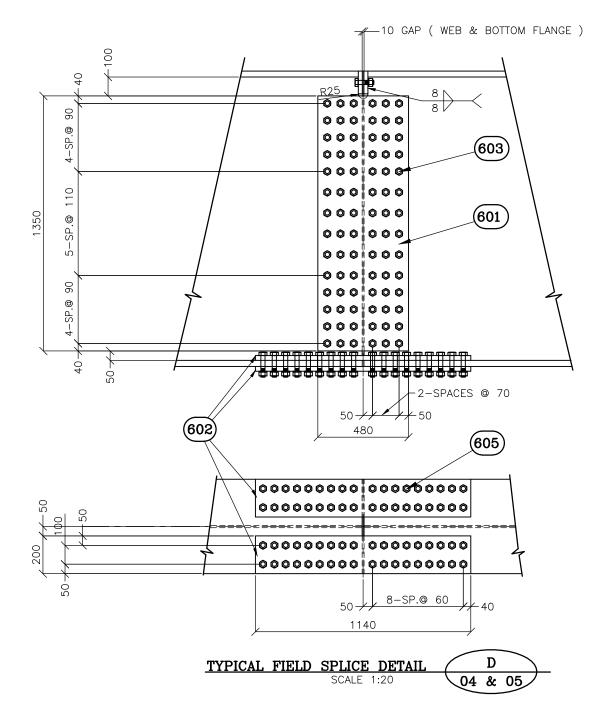
|  | MATERIALS  | — JO   | B #  | 6282  | ?  |  |   |
|--|--|--|--|---|--|--|---|
| DESCRIPT   | ION OR NAME  |  |  | SIZE  |  | WT. LB                                     | s. total  |
| OP FLANGE F  | PLATE  |  | 31.8 x   | 500 x   | 18266  | 10   | 027   |
| BOTTOM FLANG   | GE PLATE   |  | 31.8 x   | 500 x   | 18279  | 10   | 034   |
| <b>ATED WEIG</b><br>IA = 16,698<br>IB = 16,691<br>LIED SECTION | LBS.   | S.   |  |   |  |  |   |
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| 23, 14   | ISSUED FOR C   | ONSTRU   | CTION  |   |  |  | RR  |
| 11, 13   | ISSUED FOR C<br>PRELIMINARY  |  |  |   |  |  | RR  |
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| 11, 13<br>DATE   | PRELIMINARY  | DESCR  | IPTION<br>SP/  | · 1-800   | 0 <i>–661</i> -  |  | RR<br>BY  |
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| 11, 13<br>DATE   | PRELIMINARY<br>PRELIMINARY<br>RAP<br>Didspan.com<br>SNOT BEENT TC<br>SNOT BEENT TC<br>STAND IS LENT TC<br>STAND IS LENT TC<br>STAND OF THE LI<br>SETURN OF T   | DESCR<br>ID-S<br>ISHED AN<br>D THE BO<br>OAN OF<br>EQUEST A<br>EDISPOSIT<br>THAT FC<br>GY SE<br>I LAYC   | IPTION<br>IPTION<br>ID IS T<br>RROWER<br>ID IS T | ES II   | 0-661-<br>LE PRC<br>HIS CO<br>THE<br>VOR IT<br>WAS F           |  | RR<br>BY  |
| 11, 13<br>DATE   | PRELIMINARY<br>PRELIMINARY<br>RAP<br>Didspan.com<br>SNOT BEEN PUBL<br>DIS LENT TO<br>STATION OF THE L<br>SEATION OF THE L<br>ENT OR OTHERWISE<br>OSE OTHER THAN<br>HSTAR ENER<br>GIRDER I<br>DATE: JAN. 2012<br>DATE: MAR. 11,<br>DATE: MAR. 11,   | DESCR<br>DESCR<br>D-S<br>D-S<br>D-S<br>D-S<br>D-S<br>D-S<br>D-S<br>D-S<br>D-S<br>D-S   |  | ES II   | 0-661-<br>LE PRC<br>HIS CO<br>THE<br>VOR IT<br>WAS F           |  | RR<br>BY<br>OF<br>NOTAL<br>NOTAL<br>S282<br>OF 13 |
| 11, 13<br>DATE   | PRELIMINARY<br>PRELIMINARY<br>RAP<br>Didspan.com<br>SNOT BEEN PUBL<br>DIS LENT TO<br>STATION OF THE L<br>SEATION OF THE L<br>ENT OR OTHERWISE<br>OSE OTHER THAN<br>HSTAR ENER<br>GIRDER I<br>DATE: JAN. 2012<br>DATE: MAR. 11,<br>DATE: MAR. 11,   | DESCR<br>ID-S<br>ISHED AN<br>D THE BO<br>OAN OF<br>EQUEST A<br>EQUEST A<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E   |  | ES II   | 9-661-<br>LE PRC<br>HIS CO<br>THE<br>Y OR I<br>WAS F           | DPERT<br>INFIDE<br>BORR<br>INDIRE<br>URNIS | RR<br>BY<br>OF<br>NOF<br>NOF<br>SCHED             |



| BILL OF MATERIALS - J  | 0B # 6282  |  |
|--|--|--|
| DESCRIPTION OR NAME  | SIZE   | WT. LBS. TOTAL   |
| TOP FLANGE PLATE   | 31.75 x 500 x 12169  | 6680   |
| BOTTOM FLANGE PLATE  | 31.75 x 500 x 12184  | 6688   |
| <b>ATED WEIGHTS:</b><br>IIA C/W FIELD SPLICE PLATES = 1<br>IIB C/W FIELD SPLICE PLATES = 1<br>LIED SECTION II C/W FIELD SPLICE   | 1,885 LBS.   | LBS.   |
|  |  |  |
| 23, 14 ISSUED FOR CONSTRU-<br>11, 13 PRELIMINARY<br>DATE DESC  | UCTION   | RR<br>RR<br>BY   |
| 11, 13 PRELIMINARY   |  | RR   |
| 11, 13 PRELIMINARY   | SPAN<br>Tei: 1-800-661-  | RR<br>BY<br>-2047  |
| 11, 13       PRELIMINARY         DATE       DESC         RAPID-         : http://www.rapidspan.com   | SPAN<br>SPAN<br>Id: 1-800-661-<br>AND IS THE SOLE PRO<br>IORROWER FOR HIS CO<br>THIS DRAWING, THE<br>AND AGREES THAT IT<br>SED OF DIRECTLY OR I<br>FOR WHICH IT WAS F  | RR<br>BY   |
| 11, 13 PRELIMINARY<br>DATE DESC<br>RAPID-<br>Control Control | SPAN<br>SPAN<br>Tel: 1-800-661-<br>AND IS THE SOLE PRO<br>THIS DRAWING, THE<br>SED OF DIRECTLY OR I<br>SED OF DIRECTLY OR I<br>FOR WHICH IT WAS F  | RR<br>BY<br>-2047  |
| 11, 13 PRELIMINARY<br>DATE DESC<br>RAPID-<br>RAPID-<br>STRUCTURES LTD AND IS LENT TO THE E<br>STRUCTURES LTD AND IS LENT TO THE E<br>IND IN CONSIDERATION OF THE LOAN OF<br>DAGREES TO RETURN IT UPON REQUEST<br>CED. COPIED, LENT OR OTHER THAN THAT<br>NORTHSTAR ENERGY S<br>GIRDER II LAY<br>DATE: JAN. 2012  | SRIPTION<br>SPAN<br><i>Tel: 1-800-661</i> -<br>AND IS THE SOLE PRO<br>BORROWER FOR HIS CO<br>THIS DRAWING, THE<br>AND AGREES THAT IT<br>SED OF DIRECTLY OR I<br>FOR WHICH IT WAS F<br>ERVICES INC.<br>YOUT<br>D: RSB JOB N   | RR<br>BY<br>-2047<br>DPERTY OF<br>INFIDENTIAL<br>BORROWER<br>SHALL NOT<br>INDIRECTLY,<br>URNISHED.   |
| 11, 13       PRELIMINARY         DATE       DESC         RAPID-         RAPID-         RAPID-         S DRAWING HAS NOT BEEN PUBLISHED /<br>STRUCTURES LTD AND IS LENT TO THE LOAN OF<br>DAGREES TO RETURN IS LENT TO THE LOAN OF<br>DA AGREES TO RETURN IS UPON<br>CEO, COPIED, LENT OR OTHERWISE DISPOS<br>FOR ANY PURPOSE OTHER THAN THAT         NORTHSTAR ENERGY S         GIRDER II LAY         DATE: JAN. 2012         DATE: MAR. 11, 13         NEIMENS  | SPAN<br>Tel: 1-800-661-<br>AND IS THE SOLE PRO<br>OFROWER FOR HIS CO<br>THIS DRAWING, THE<br>SED OF DIRECTLY OR I<br>SED O | RR<br>BY<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047<br>-2047 |
| 11, 13       PRELIMINARY         DATE       DESC         RAPID-       RAPID-         S. http://www.rapidspan.com       S         S DRAWING HAS NOT BEEN PUBLISHED / STRUCTURES LTD AND IS LENT TO THE LOAN OF DA ARGEST TO RETURN IT UPON REQUEST CED, COPIED, LENT OR OTHERWISE DISPOSE OTHER THAN THAT         NORTHSTAR ENERGY S         GIRDER II LAY         DATE:       JAN. 2012         IN RIEMENS       DATE: MAR. 11, 13   | SRIPTION<br>SPAN<br><i>Tel: 1-800-661</i> -<br>AND IS THE SOLE PRO<br>BORROWER FOR HIS CO<br>THIS DRAWING, THE<br>AND AGREES THAT IT<br>SED OF DIRECTLY OR I<br>FOR WHICH IT WAS F<br>ERVICES INC.<br>YOUT<br>D: RSB JOB N   | RR<br>BY<br>DPERTY OF<br>INDIRECTLY.<br>URNISHED<br>IO: 6282<br>T 5 OF 13<br>REV<br>A  |

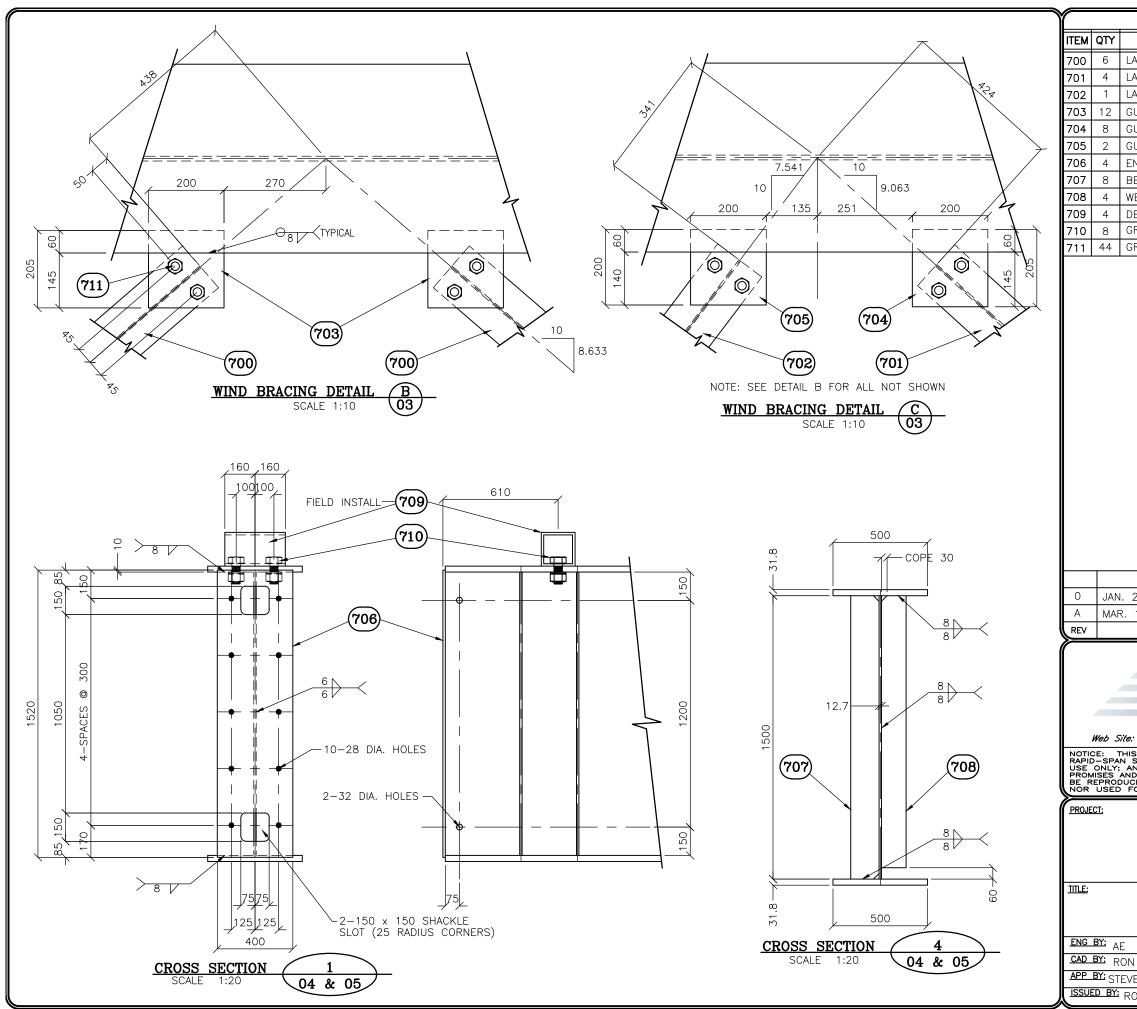
|   |                 | BILL O                 | F MATERIALS – J   | OB # 6282                  |                                  |  |
|---|-----------------|------------------------|---|----------------------------|----------------------------------|--|
| ITEM  | QTY             |                        | TION OR NAME  | SIZE                       | WT. LBS. TOTAL                   |  |
| 600   | 4               | TOP FLANGE             | SPLICE PLATE  | 25.4 x 120 x 500           | 105                              |  |
| 601   | 4               | WEB SPLICE             |   | 9.5 x 480 x 1350           |                                  |  |
| 602   | 8               | BOTTOM FLAN            | IGE SPLICE PLATE  | 25.4 x 200 x 1140          | 801                              |  |
| 603   | 168             | GRADE A325             | TYPE 3 BOLT ASSEMBL   | .Y 7/8" DIA. x 2 3/4" LONG | 178                              |  |
| 604   | 12              | GRADE A325             | TYPE 3 BOLT ASSEMBL   | Y 7/8" DIA. x 3 1/2" LONG  | 14                               |  |
| 605   | 144             | GRADE A325             | TYPE 3 BOLT ASSEMBL   | Y 7/8" DIA. x 4 3/4" LONG  | 202                              |  |
|   |                 |                        |   |                            |                                  |  |
| 0   |                 | 07 14                  |   |                            |                                  |  |
| 0<br>A  | JAN             | 1. 23, 14<br>R. 11, 13 | ISSUED FOR CONSTR   |                            | RR<br>RR                         |  |
| REV   |                 | DATE                   |   | CRIPTION                   | BY                               |  |
|   |                 |                        |   |                            |                                  |  |
| Web Site: http://www.rapidspan.com       Tel: 1-800-661-2047         NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF RAPID-SPAN STRUCTURES LTD AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY: AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING, THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS FURNISHED. |                 |                        |   |                            |                                  |  |
| PROJECT:<br>NORTHSTAR ENERGY SERVICES INC.  |                 |                        |   |                            |                                  |  |
|   |                 |                        |   |                            |                                  |  |
| <u>TITLE:</u>   |                 |                        | FIELD SPLICE I  | DETAILS                    |                                  |  |
|   | BY: A           | E                      | DATE: JAN. 2012   |                            | <u>10.:</u> 6282                 |  |
| ENG<br>CAD  | BY: R           | ON RIEMENS             | DATE:         JAN. 2012         LE/           DATE:         MAR. 11, 13         SC  | AD: RSB JOB N              | <del>10:</del> 6282<br>T 6 OF 13 |  |
| ENG<br>CAD<br>APP   | BY: R<br>BY: ST |                        | DATE:         JAN. 2012         LE/           DATE:         MAR. 11, 13         SC. |                            | 0202                             |  |



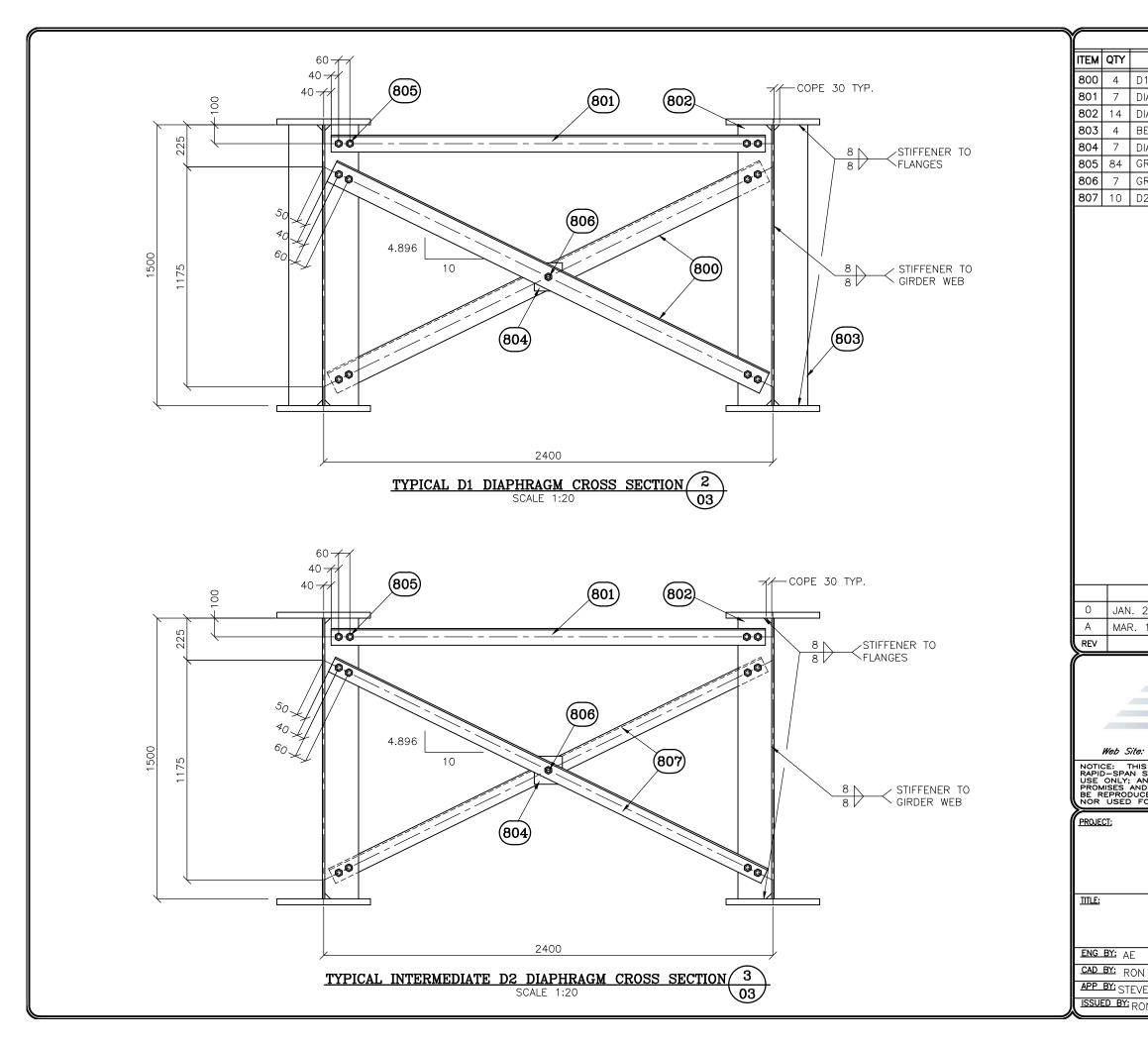


| 00         4         TOP FLANCE SPLICE PLATE         25.4 × 120 × 500         105           01         4         WEB SPLICE PLATE         9.5 × 480 × 1350         426           02         8         BOTTOM FLANCE SPLICE PLATE         25.4 × 200 × 1140         801           03         165         GRADE A325 TYPE 3         BOLT ASSEMBLY 7/8" UA × 3 3/1/2" UM6         14           605         144         GRADE A325 TYPE 3         BOLT ASSEMBLY 7/8" UA × 4 3/4" UM6         202           0         JAN. 23, 14         ISSUED FOR CONSTRUCTION         R         R           4         MAR. 11, 13         PRELIMINARY         RR         R           Rev         DATE         DESCRIPTION         BY         RX         RX           MAR. 11, 13         PRELIMINARY         RR         R         R           Rev         DATE         DESCRIPTION         BY         RX           MAR. 11, 13         PRELIMINARY         RR         R           Rev         DATE         DESCRIPTION         BY           MAR. 11, 13         PRELIMINARY         RX         RX           Rev         DATE         DESCRIPTION         BY         RX           MAR. 11, 13         PRELIMINARY  |  |        | BILL OF      | MATERIALS        | – JOB #       | 6282              |                |
|--|--|--------|--------------|------------------|---------------|-------------------|----------------|
| 601         4         WEB SPLICE PLATE         9.5 x 480 x 1350         426           602         8         BOTTOM FLANCE SPLICE PLATE         25.4 x 200 x 1140         801           603         168         GRADE A325 TYPE 3 BOLT ASSEMBLY 7/8° DA x 2 3/4° LONG         178           604         12         CRADE A325 TYPE 3 BOLT ASSEMBLY 7/8° DA x 4 3/4° LONG         202           805         144         GRADE A325 TYPE 3 BOLT ASSEMBLY 7/8° DA x 4 3/4° LONG         202           9         JAN. 23, 14         ISSUED FOR CONSTRUCTION         RR           A         MAR. 11, 13         PRELIMINARY         RR           Rev         Date         DESCRIPTION         BY           Intel Site: http://www.sepidspan.com           Tel: 1-800-661-2047           NORTHESE THE ONE BEEL PUBLIEED AND IS THE SOLE PROPERTY OF BROWNER FOR DESCRIPTION           BY           DESCRIPTION           DATE   | ITEM   | QTY    | DESCRIPT     | ION OR NAME      |               | SIZE              | WT. LBS. TOTAL |
| 601         4         WEB SPLICE PLATE         9.5 x 480 x 1350         426           602         8         BOTTOM FLANCE SPLICE PLATE         25.4 x 200 x 1140         801           603         168         GRADE A325 TYPE 3 BOLT ASSEMBLY 7/8° DA x 2 3/4° LONG         178           604         12         CRADE A325 TYPE 3 BOLT ASSEMBLY 7/8° DA x 4 3/4° LONG         202           805         144         GRADE A325 TYPE 3 BOLT ASSEMBLY 7/8° DA x 4 3/4° LONG         202           9         JAN. 23, 14         ISSUED FOR CONSTRUCTION         RR           A         MAR. 11, 13         PRELIMINARY         RR           Rev         Date         DESCRIPTION         BY           Intel Site: http://www.sepidspan.com           Tel: 1-800-661-2047           NORTHESE THE ONE BEEL PUBLIEED AND IS THE SOLE PROPERTY OF BROWNER FOR DESCRIPTION           BY           DESCRIPTION           DATE   | 600  | 4      | TOP FLANGE   | SPLICE PLATE     | 25.4          | x 120 x 500       | 105            |
| OO         168         GRADE         A325         TYPE         3         BOLT         ASSEMBLY         7/8*         DA. x 2 3/4*         100         178           604         12         GRADE         A325         TYPE         3         BOLT         ASSEMBLY         7/8*         DA. x 2 3/4*         100         14           605         144         GRADE         A325         TYPE         3         BOLT         ASSEMBLY         7/8*         DA. x 4 3/4*         1000         202           0         JAN. 23, 14         ISSUED         FOR         CONSTRUCTION         R           A         MAR. 11, 13         PRELIMINARY         DESCRIPTION         BY           CAPPID-SPEAN           NOTE: Still: MID// Inversapidapan.com         Tel: 1-800-661-2047           NOTE: THE DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF<br>DATE CONSTRUCTIONS         DESCRIPTION         BY           DATE         DATE         DESCRIPTION         REF           NOTE: THE DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF<br>DATE         DATE           DATE         DATE         DATE         DATE <th< th=""><th>601</th><td>4</td><td>WEB SPLICE F</td><td>PLATE</td><td>9.5 ×</td><td>: 480 x 1350</td><td>426</td></th<>  | 601  | 4      | WEB SPLICE F | PLATE            | 9.5 ×         | : 480 x 1350      | 426            |
| BOA         12         GRADE         A325         TYPE         3         BOLT         ASSEMBLY         7/8" DA x 3 1/2" LONG         14           605         144         GRADE         A325         TYPE         3         BOLT         ASSEMBLY         7/8" DA x 4 3/4" LONG         202           0         144         GRADE         A325         TYPE         3         BOLT         ASSEMBLY         7/8" DA x 4 3/4" LONG         202           0         JAN.         23, 14         ISSUED         FOR         CONSTRUCTION         R         A           4         MAR.         11, 13         PRELIMINARY         RR         R         R           Rev         DATE         DESCRIPTION         BY         Idea         Sole         FOR           Web         Site:         http://www.rapidspan.com         Idea         1.6: 1-800-661-2047           NOTCE::::::::::::::::::::::::::::::::::::   | 602  | 8      | BOTTOM FLAN  | GE SPLICE PLATE  | 25.4          | x 200 x 1140      | 801            |
| 0     JAN. 23, 14     ISSUED FOR CONSTRUCTION     RR       0     JAN. 23, 14     ISSUED FOR CONSTRUCTION     RR       0     JAN. 23, 14     ISSUED FOR CONSTRUCTION     RR       0     MAR. 11, 13     PRELIMINARY     RR       Rev     Date     DESCRIPTION     BY       Mode Sile: http://www.rapidegaan.com     Ist. 1-800-661-2047       NOTREE: Intel DAMING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF MERCUEST AND AGREES TO RETURN IT UPON RECUEST AND AGREES TO RETURN OF THAN THAT FOR WINCH IT WAS PUBLICED AND IS THE SOLE PROPERTY OF MERCUEST AND AGREES TO RETURN IT UPON RECUEST AND AGREES TO RETURN IT UPON RECUEST AND AGREES TO RETURN OF WINCH IT WAS PUBLICED AND IS THE SOLE PROPERTY OF MERCUEST AND AGREES TO RETURN OF WINCH IT WAS PUBLICED AND AGREES TO RETURN THAN THAT FOR WINCH IT WAS PUBLICED AND IS THE SOLE PROPERTY OF MERCUEST AND AGREES TO RETURN THAN THAT FOR WINCH IT WAS PUBLICED AND AGREES TO RETURN THAN THAT FOR WINCH IT WAS PUBLICED AND AGREES TO RETURN THAN THAT FOR WINCH IT WAS PUBLICED AND AGREES TO RETURN THAN THAT FOR WINCH IT WAS PUBLICED AND AGREES TO RETURN THAN THAT FOR WINCH IT WAS PUBLICED AND AGREES TO RETURN THAN THAT FOR WINCH IT WAS PUBLICED AND AGREES TO RETURN THAN THAT FOR WINCH IT WAS PUBLING TO THE SOLE PROVIDED AND AGREES TO RETURN THAN THAT FOR WINCH IT WAS PUBLING TO THE ADD AGREES TO AT THE SOLE PROVIDED AND AGREES TO RETURN THAN THAT FOR WINCH IT WAS PUBLING TO THAN THAT FOR WINCH IT WAS PUBLING TO THAN THAT FOR WINCH IT WAS PUBLING TO THAN THAT | 603  | 168    | GRADE A325   | TYPE 3 BOLT AS   | SEMBLY 7/8" D | IA. x 2 3/4" LONG | 178            |
| 0     JAN. 23, 14     ISSUED FOR CONSTRUCTION     RR       A     MAR. 11, 13     PRELIMINARY     RR       Rev     DATE     DATE     DESCRIPTION     BY   | 604  | 12     | GRADE A325   | TYPE 3 BOLT AS   | SEMBLY 7/8" D | IA. x 3 1/2" LONG | 14             |
| A       MAR. 11, 13       PRELIMINARY       RR         REV       DATE       DESCRIPTION       BY         RAPID-SPAN         Web Site: http://www.rapidspan.com       Tel: 1-800-661-2047         Motice: http://www.rapidspan.com         Tel: 1-800-661-2047         NOTICE: This DERAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF MAPID-SPAN STRUCTURES. ID AND IS LEAT TO THE BORROWER FOR HIS CONFIDENTIAL NOT SECONST AND AGREES THAT AT SHALL NOT BEE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDRECTLY OR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS FURNISHED         PROJECT:       NORTHSTAR ENERGY SERVICES INC.         ITELE D SPLICE DETAILS         ENG BY: AE         DATE: JAN. 2012  | 605  | 144    | GRADE A325   | TYPE 3 BOLT AS   | SEMBLY 7/8"D  | IA. x 4 3/4" LONG | 202            |
| A       MAR. 11, 13       PRELIMINARY       RR         REV       DATE       DESCRIPTION       BY         RAPID-SPAN         Web Site: http://www.rapidspan.com       Tel: 1-800-661-2047         NOTICE: This DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF<br>RAPID-SPAN STRUCTURES LID AND IS LEAT TO THE ADAM OF THIS DRAWING, THE BORROWER<br>PROMISES AND ACREES TO PETURN OF THE LOAN OF THIS DRAWING, THE BORROWER<br>PROMISES AND ACREES TO PETURN OF UPON REQUEST AND AGREES THAT IS SHALL NOT<br>NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS FURNISHED         PROJECT:       NORTHSTAR ENERGY SERVICES INC.         ITILE:         FIELD SPLICE DETAILS         ENG BY: AE         DATE: JAN. 2012         LEAD: RSB         JOB_NO: 6282  |  |        |              |                  |               |                   |                |
| REV     DATE     DESCRIPTION     BY       RED     RAPID-SPAN     BY       Web Site: http://www.rapidspan.com     Tel: 1-800-661-2047       Notice:     This Drawing Has Not Been Published and is the sole property of RAPID-SPAN Structures Ltd and is Leth to the Borrower For His confidential Not been provides and adrees to retrunt upon request and adrees for his confidential Not been provided and the Borrower for his confidential Not been provided and the Borrower for his confidential Not been reproduced, copied, Leth or otherwise disposed of directly or indirectly Nor Used For any purpose other than that for which it was furnished       PROJECT:     FIELD SPLICE DETAILS       IIILE:     FIELD SPLICE DETAILS       ENG BY: AE     DATE: JAN. 2012     LEAD: RSB     JOB NO: 6282   | 0  | JAN    | . 23, 14     | ISSUED FOR C     | ONSTRUCTION   |                   | RR             |
| Web Site: http://www.rapidspan.com       Tel: 1-800-661-2047         NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF RAPID-SPAN STRUCTURES LTD AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY; AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING, THE BORROWER FOR DIRECTLY OF NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS FURNISHED         PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHER THAN THAT FOR WHICH IT WAS FURNISHED         PROMECT:         NORTHISTAR ENERGY SERVICES INC.         ITTE:         FIELD SPLICE DETAILS         ENG. BY: AE       DATE: JAN. 2012       IEAD: RSB       JOB NO:: 6282  | A  | MAF    | R. 11, 13    | PRELIMINARY      |               |                   | RR             |
| Web Site: http://www.rapidspan.com       Tel: 1-800-661-2047         NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF RAPID-SPAN STRUCTURES LTD AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY; AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING, THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS FURNISHED         PROJECT:       NORTHSTAR ENERGY SERVICES INC.         ITTLE:       FIELD SPLICE DETAILS         ENG BY: AE       DATE: JAN. 2012       LEAD: RSB       JOB NO.: 6282   | REV  |        | DATE         |                  | DESCRIPTION   |                   | BY             |
| NORTHSTAR ENERGY SERVICES INC.<br>IIILE:<br>FIELD SPLICE DETAILS<br>ENG BY: AE<br>DATE: JAN. 2012<br>LEAD: RSB<br>JOB NO.: 6282  | Web Site: http://www.rapidspan.com Tel: 1-800-661-2047 |        |              |                  |               |                   |                |
| 0/11. 2012 1100 0202   | PROJECT:<br>NORTHSTAR ENERGY SERVICES INC.<br>IITLE:   |        |              |                  |               |                   |                |
| 0/11: 2012 1100 0202   |  |        |              |                  |               |                   |                |
| UAU DI: RON RIEMENS I DALL: MAD 44 47 ISUALL: 1.00 I SUELT & OF 1  |  |        |              | DATE: JAN. 2012  | N.            |                   | 0202           |
| CAD BT: RON RIEMENS DATE MAR. 11, 13 SCALE 1:20 SHEET 6 OF 1.  |  |        |              | DATE: MAR. 11, 1 | 3 SCALE: 1:   |                   | T 6 OF 13      |
| APP BY: STEVE BUBURUZ DATE: SEPT. 25, 13<br>ISSUED BY: RON RIEMENS DATE: JAN. 23, 14<br>RS-6282-06   |  | BI: ST | EVE BUBURUZ  |                  |               |                   |                |

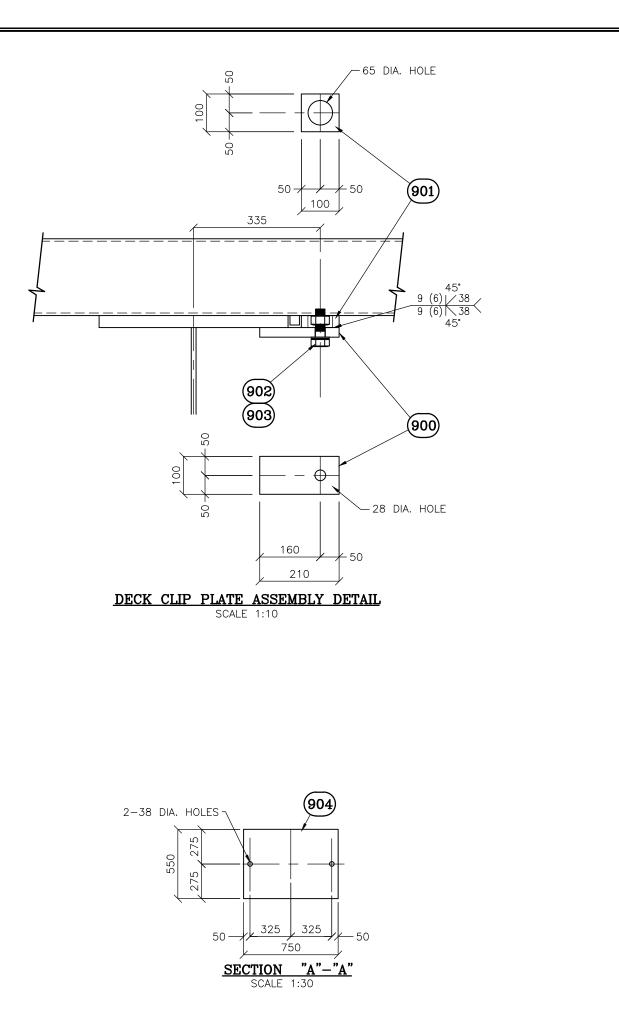
|   |                 | BILL O                 | F MATERIALS – J   | OB # 6282                  |                                  |  |
|---|-----------------|------------------------|---|----------------------------|----------------------------------|--|
| ITEM  | QTY             |                        | TION OR NAME  | SIZE                       | WT. LBS. TOTAL                   |  |
| 600   | 4               | TOP FLANGE             | SPLICE PLATE  | 25.4 x 120 x 500           | 105                              |  |
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| 602   | 8               | BOTTOM FLAN            | IGE SPLICE PLATE  | 25.4 x 200 x 1140          | 801                              |  |
| 603   | 168             | GRADE A325             | TYPE 3 BOLT ASSEMBL   | .Y 7/8" DIA. x 2 3/4" LONG | 178                              |  |
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|   |                 |                        |   |                            |                                  |  |
| 0   |                 | 07 14                  |   |                            |                                  |  |
| 0<br>A  | JAN             | 1. 23, 14<br>R. 11, 13 | ISSUED FOR CONSTR   |                            | RR<br>RR                         |  |
| REV   |                 | DATE                   |   | CRIPTION                   | BY                               |  |
|   |                 |                        |   |                            |                                  |  |
| Web Site: http://www.rapidspan.com       Tel: 1-800-661-2047         NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF RAPID-SPAN STRUCTURES LTD AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY: AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING, THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS FURNISHED. |                 |                        |   |                            |                                  |  |
| PROJECT:<br>NORTHSTAR ENERGY SERVICES INC.  |                 |                        |   |                            |                                  |  |
|   |                 |                        |   |                            |                                  |  |
| <u>TITLE:</u>   |                 |                        | FIELD SPLICE I  | DETAILS                    |                                  |  |
|   | BY: A           | E                      | DATE: JAN. 2012   |                            | <u>10.:</u> 6282                 |  |
| ENG<br>CAD  | BY: R           | ON RIEMENS             | DATE:         JAN. 2012         LE/           DATE:         MAR. 11, 13         SC  | AD: RSB JOB N              | <del>10:</del> 6282<br>T 6 OF 13 |  |
| ENG<br>CAD<br>APP   | BY: R<br>BY: ST |                        | DATE:         JAN. 2012         LE/           DATE:         MAR. 11, 13         SC. |                            | 0202                             |  |

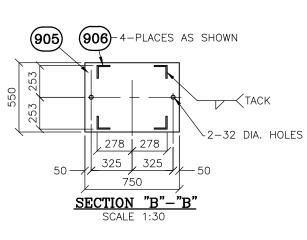


|   |        | BILL OF                    | MATERIALS       | — JO    | B_#    | 6282        | ;      |        |           |
|---|--------|----------------------------|-----------------|---------|--------|-------------|--------|--------|-----------|
| ITEM  | QTY    | DESCRIPT                   | ION OR NAME     |         |        | SIZE        |        | WT. LE | is. Total |
| 700   | 6      | LATERAL BRAC               | E DIAGONAL      |         | WT125  | @ 16.5 :    | x 2796 | 6      | 605       |
| 701   | 4      | LATERAL BRAC               | E DIAGONAL      |         | WT125  | @ 16.5 :    | x 2725 | 3      | 393       |
| 702   | 1      | LATERAL BRAC               | E DIAGONAL      |         | WT125  | @ 16.5 :    | x 2324 |        | 84        |
| 703   | 12     | GUSSET PLATE               | -               |         | 9.5 >  | < 200 ×     | 205    |        | 81        |
| 704   | 8      | GUSSET PLATE               | -               |         |        | < 200 ×     |        |        | 54        |
| 705   | 2      | GUSSET PLATE               |                 |         |        | < 200 ×     |        |        | 13        |
| 706   | 4      | END PLATE                  |                 |         |        | x 400 x     |        |        | 534       |
| 707   | 8      | BEARING STIFF              | ENERS           |         |        | x 150 x     |        |        | 395       |
| 708   | 4      | WEB STIFFENE               |                 |         |        | x 130 x     |        |        | 64        |
| 709   | 4      | DECK STOP                  |                 |         |        | 78 x 6.4 HS |        |        | 94        |
| 710   | 8      |                            | TYPE 3 BOLT AS  | SEMBLY  |        | DIA. x 3"   |        |        | 9         |
|   | 44     |                            | TYPE 3 BOLT AS  |         |        | DIA. x 2"   |        |        | 41        |
|   |        |                            |                 |         |        |             |        |        |           |
| 0   | JAN    | . 23, 14                   | ISSUED FOR (    | CONSTRU | CTION  |             |        |        | RR        |
| A   | MAR    | ,                          | PRELIMINARY     |         |        |             |        |        | RR        |
| REV   |        | DATE                       |                 | DESCR   | IPTION |             |        |        | BY        |
| Web Site: http://www.ropidspan.com       Tel: 1-800-661-2047         NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF RAPID-SPAN STRUCTURES LTD AND IS LENT TO THE BORROWER FOR HIS CONFIDENTIAL USE ONLY: AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING, THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT HALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS FURNISHED. |        |                            |                 |         |        |             |        |        |           |
| PROJECT:<br>NORTHSTAR ENERGY SERVICES INC.  |        |                            |                 |         |        |             |        |        |           |
| <u>TITLE:</u>   |        |                            | R AND LATE      | RAL BI  | RACE   | E DET       | AILS   |        |           |
| ENG B   |        |                            | DATE: JAN. 2012 | LEAD    | - nc   |             | JOB N  | 10.: ( | 5282      |
|   |        | ON RIEMENS                 | DATE: MAR. 11,  | 13 SCAL | E: AS  | SHOWN       | SHEE   | Τ7     | OF 13     |
| <u>APP B</u>  | M: STI | EVE BUBURUZ<br>RON RIEMENS | DATE: SEPT. 25, | 13 DRAW | ING NU |             |        |        | REV       |
|   |        | NON NEWENS                 | JAN. 23, 1      | 4       | 1/10-  | 0202        | - 0 (  |        |           |

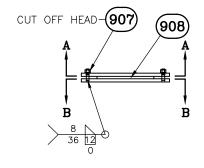


|   | D # 6283  |   |
|---|---|---|
| BILL OF MATERIALS - JO  | +   |   |
| DESCRIPTION OR NAME   | SIZE  | WT. LBS. TOTAL  |
| 1 DIAPHRAGM DIAGONAL  | L127 x 127 x 7.9 x 2572   | 346   |
| DIAPHRAGM STRUT   | L89 x 89 x 7.9 x 2320   | 378   |
| DIAPHRAGM STIFFENER   | 12.7 x 180 x 1500   | 830   |
| BEARING STIFFENER   | 12.7 x 180 x 1500   | 237   |
| DIAPHRAGM SPACER  | 12.7 x 150 x 150  | 35  |
| RADE A325 TYPE 3 BOLT ASSEMBLY  | , ,   | 82  |
| RADE A325 TYPE 3 BOLT ASSEMBLY  | , , ,   |   |
| 02 DIAPHRAGM DIAGONAL   | L89 x 89 x 7.9 x 2572   | 598   |
|   |   |   |
|   |   |   |
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| 11, 13 PRELIMINARY  | JCTION  | RR  |
| 11, 13 PRELIMINARY  | JCTION<br>RIPTION   |   |
| 11, 13 PRELIMINARY  | RIPTION<br>SPAN<br>Tel: 1-800-661   | RR<br>BY  |
| 11, 13 PRELIMINARY<br>DATE DESCI<br>RAPID-C<br>RAPID-C<br>S http://www.rapidspan.com<br>S DRAWING HAS NOT BEEN PUBLISHED A<br>STRUCTURES LTD AND IS LENT TO THE BA<br>NOT IN CONSIDERATION OF THE LOAN OF<br>D AGREES TO RETURN IT UPON REQUEST<br>CED, COPIED, LENT OR OTHERWISE DISPOS<br>FOR ANY PURPOSE OTHER THAN THAT F   | RIPTION<br>SPAN<br><i>Tel: 1-800-661</i><br>Tel: 1-800-661<br>TEL: 1-800-66 | RR<br>BY<br>-2047   |
| 11, 13 PRELIMINARY<br>DATE DESCI<br>RAPID-<br><i>RAPID-</i><br><i>s http://www.rapidspan.com</i><br><i>s</i> DRAWING HAS NOT BEEN PUBLISHED A<br><i>s</i> TRUCTURES LITD AND IS LENT TO THE BU<br>ND IN CONSIDERATION OF THE LOAN OF<br>D AGREES TO RETURN IT UPON REQUEST<br>DED, COPIED, LENT OR OTHER WISE DISPOS<br>OR ANY PURPOSE OTHER THAN THAT F<br>NORTHSTAR ENERGY SI<br>DIAPHRAGM DE   | RIPTION<br>SPAN<br><i>Tel: 1-800-661</i><br>Tel: 1-800-661<br>Tel: 000-661<br>THE SOLE PRO<br>THIS DRAWING, THE<br>SOR OVER FOR HIS CO<br>THIS DRAWING, THE<br>ED OF DIRECTLY OR<br>OR WHICH IT WAS F<br>ERVICES INC.   | RR<br>BY<br>-2047<br>OPERTY OF<br>DNFIDENTIAL<br>BORROWER<br>SHALL NOT<br>INDIRECTLY,<br>TURNISHED.   |
| 11, 13 PRELIMINARY<br>DATE DESCI<br>RAPID-<br>C http://www.rapidspan.com<br>S DRAWING HAS NOT BEEN PUBLISHED A<br>STRUCTURES LTD AND IS LENT TO THE BO<br>NO IN CONSIDERATION OF THE LOAN OF<br>D AGREES TO REFURN IT UPON REQUEST<br>DED, COPIED, LENT OR OTHERWISE DISPOS<br>OR ANY PURPOSE OTHER THAN THAT F<br>NORTHSTAR ENERGY SI<br>DIAPHRAGM DES<br>DATE: JAN. 2012  | RIPTION<br>SPAN<br>Tel: 1-800-661<br>Tel: 1-800-661<br>Tel: 0-800-661<br>THE SOLE PER<br>THE SOLE PER<br>THE SOLE PER<br>THE SOLE FOR HIS CO<br>THIS DRAWING, THE<br>ERVICES INC.<br>TAILS<br>2: RSB JOB N  | RR<br>BY<br>DPERTY OF<br>DPERTY OF<br>BORROWER<br>SHALL NOT<br>INDIRECTLY,<br>URNISHED.   |
| 11, 13       PRELIMINARY         DATE       DESCI         RAPID-S         RAPID-S         RAPID-S         Intervise and any purpose other than that p         DIAPHRAGM DE         NORTHSTAR ENERGY SI         DATE: JAN. 2012         DATE: JAN. 2012         DATE: JAN. 2012         DATE: JAN. 2012  | RIPTION   | RR<br>BY<br>-2047<br>OPPERTY OF<br>DOPERTY OF<br>SHALL NOT<br>INDIRECTLY,<br>URNISHED.<br>URNISHED.<br>1 8 0F 13  |
| 11, 13       PRELIMINARY         DATE       DESCI         RAPID-S         RAPID-S         Nttp://www.rapidspan.com         S DRAWING HAS NOT BEEN PUBLISHED A         STRUCTURES LTD AND IS LENT TO THE BAS         STRUCTURES LTD AND IS LENT TO THE BAS         NO AGREES TO RETURN IT UPON REQUEST         D AGREES TO RETURN IT UPON REQUEST         STRUCTURES LTD AND OF THE LOAN OF DO AGREES TO RETURN IT UPON REQUEST         D AGREES TO RETURN IT UPON REQUEST         NORTHSTAR ENERGY SI         DATE: JAN. 2012         DATE: JAN. 2012         I RIEMENS | RIPTION<br>SPAN<br>Tel: 1-800-661<br>Tel: 1-800-661<br>TROWER FOR HIS CC<br>THIS DRAWING, THE<br>SOR WHICH IT WAS F<br>ERVICES INC.<br>TAILS<br>2: RSB JOB N  | RR<br>BY<br>-2047<br>OPERTY OF<br>DNFIDENTIAL<br>BORROWER<br>SHALL NOT<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>INDIRECTLY.<br>I |





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| 901  | 22  | D  |
| 902  | 22  | G  |
| 903  | 22  | F  |
| 904  | 4   | B  |
| 905  | 4   | S  |
| 906  | 16  | K  |
| 907  | 8   | G  |
| 908  | 4   | 60 |
|      |     |    |



BEARING ASSEMBLY DETAIL SCALE 1:30





Web Site:

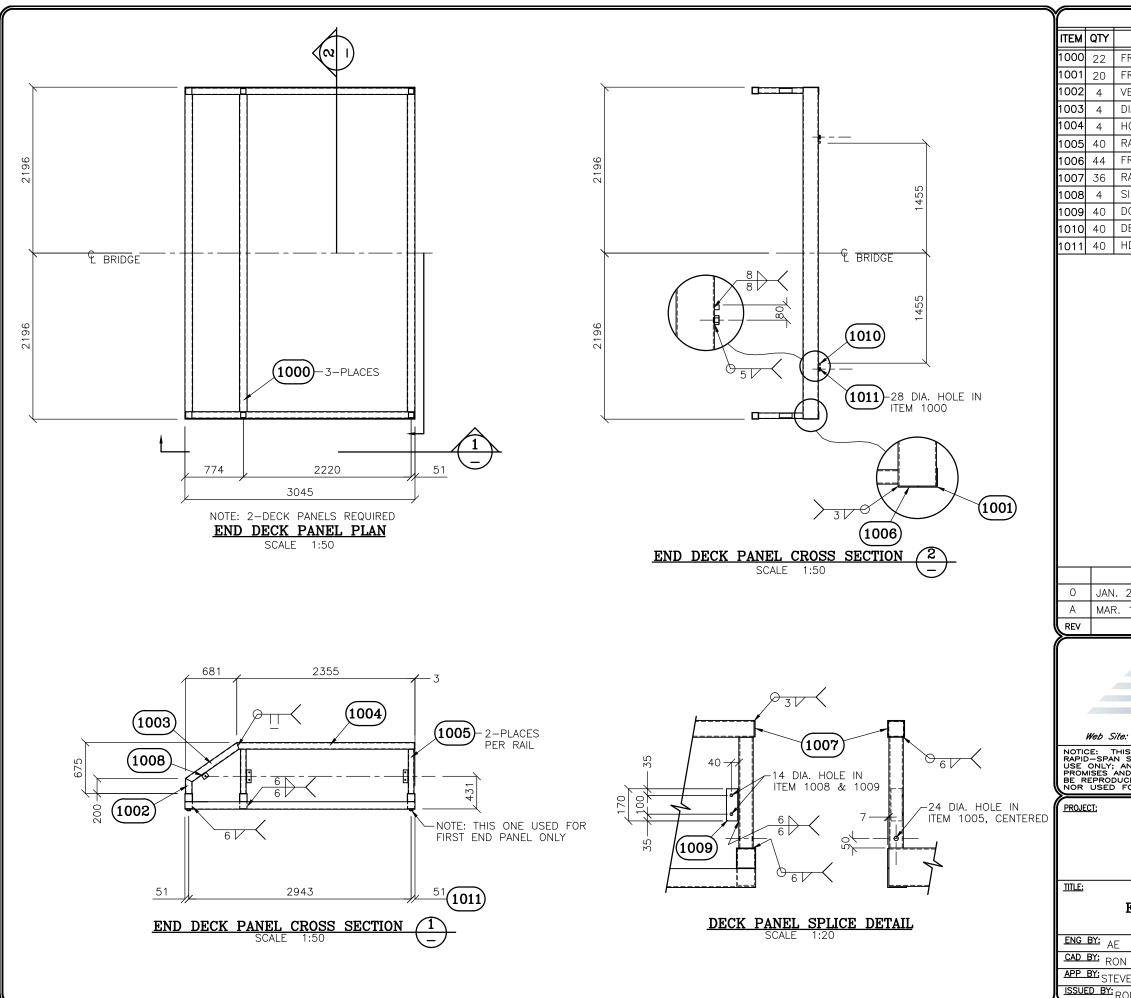
NOTICE: THIS RAPID-SPAN S USE ONLY; AN PROMISES AND BE REPRODUC NOR USED FO

PROJECT:

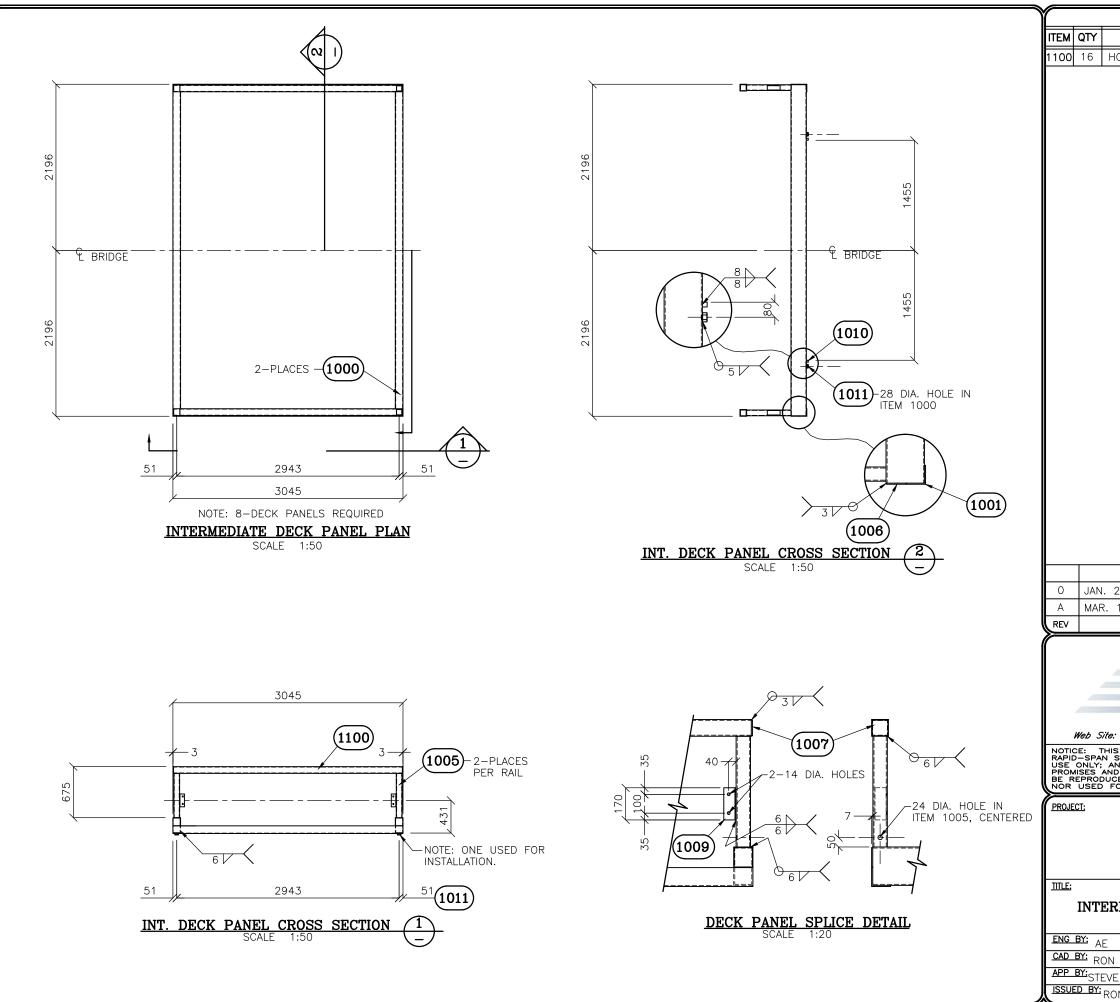
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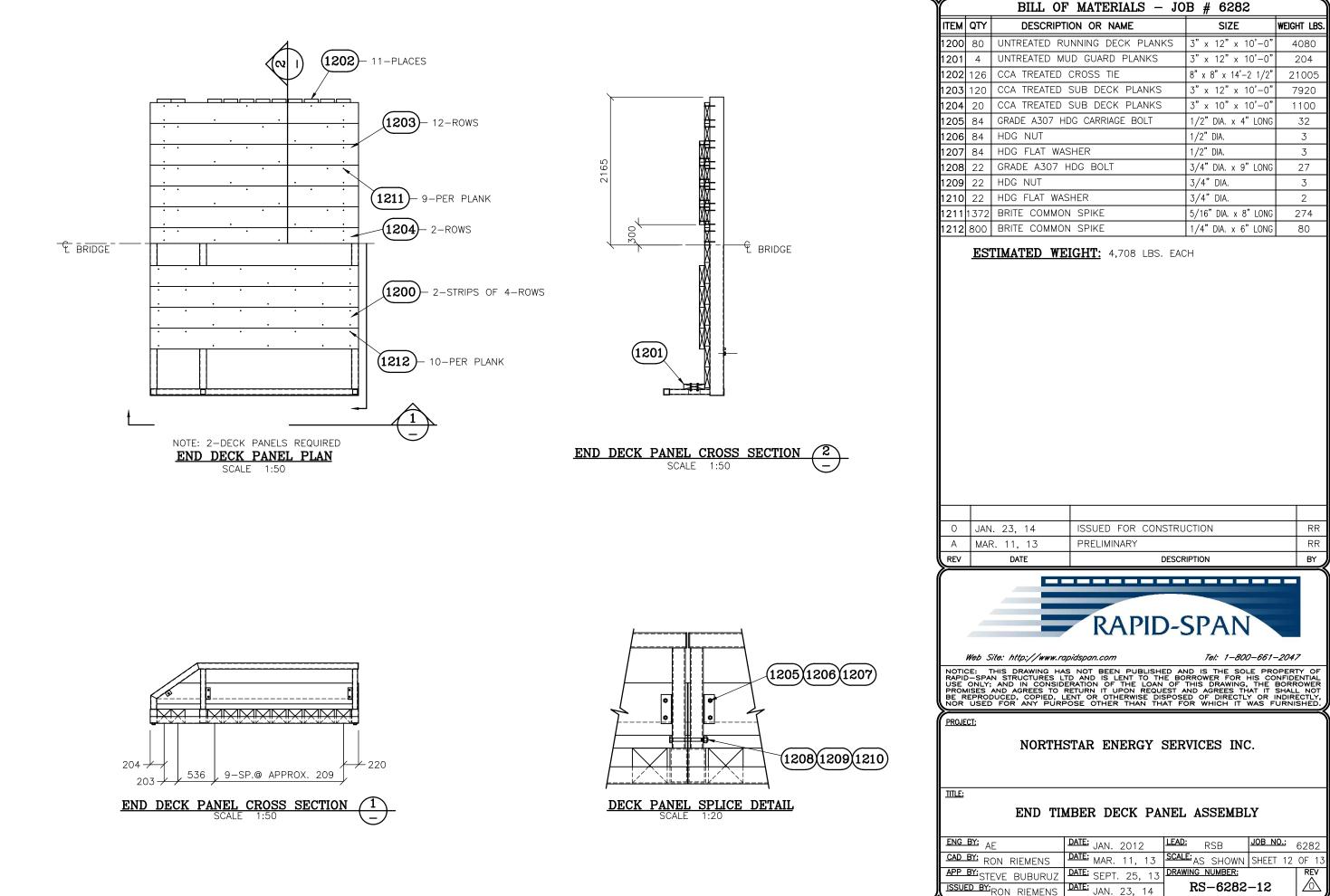
| BILL OF MATERIALS – JO  | B # 6282   | 2   |  | Y   |
|---|--|---|--|---|
| DESCRIPTION OR NAME   | SIZE   |   | WT. LBS.   | TOTAL                                     |
| DECK CLIP PLATE   | 25.4 x 100   | x 210   | 20   | 3   |
| DECK CLIP PLATE SPACER  | 31.75 x 100  | x 100   | 12   | 1   |
| GRADE A307 HDG BOLT   | 1" DIA. x 3"   |   | 2  | 1   |
| LAT WASHER  | 1" DIA.  |   | 4  |   |
| BASE PLATE  | 25.4 x 550   | x 750   | 72   | 5   |
| SOLE PLATE  | 25.4 x 550   | x 750   | 72   | 5   |
| KEEPER ANGLES   | L 102 x 102 x 9.5 x  | 10 LONG   | 5  |   |
| RADE A325 TYPE 1 BOLT ASSEMBLY  |  |   | 26   | 5   |
| 0 DUROMETER AASHTO NATURAL RUBBER BEARING PAD   | 25 x 500 >   | < 550   | 62   | 2   |
|   |  |   |  |   |
|   |  |   |  |   |
| 23, 14 ISSUED FOR CONSTRU<br>11, 13 PRELIMINARY   |  |   |  | RR  |
|   |  |   |  |   |
| 11, 13     PRELIMINARY       DATE     DESCR       RAPID-S       * http://www.rapidspan.com  | IPTION<br>SPAN<br>Tel: 1-800   | 0-661-  | -2047  | RR<br>BY                                  |
| 11, 13 PRELIMINARY<br>DATE DESCR<br>RAPID-S<br>RAPID-S<br>TRANING HAS NOT BEEN PUBLISHED AN<br>STRUCTURES LITD AND IS LENT TO THE BO<br>NDD IN CONSIDERATION OF THE LOAN OF<br>DID AGREES TO RETURN IT UPON REQUEST A<br>GED, COPIED, LENT OR OTHERWISE DISPOSE<br>FOR ANY PURPOSE OTHER THAN THAT FOR<br>NORTHSTAR ENERGY SI   | IPTION<br>SPAN<br><i>Tel: 1-80</i><br>To IS THE SO<br>RROWER FOR<br>ND AGREES TO<br>DO F DIRECTL<br>OR WHICH IT<br>ERVICES 1   | 0-661-<br>LE PRC<br>HIS CO<br>, THE E<br>HAT IT S<br>Y OR S<br>WAS FI | -2047  | RR<br>BY                                  |
| 11, 13       PRELIMINARY         DATE       DESCR         RAPID-S         RAPID-S         RAPID-S         RAPID-S         RAPID-S         S DRAWING HAS NOT BEEN PUBLISHED AND IS LENT TO THE BO NOT IN CONSIDERATION OF THE LOAN OF A CEO, COPIED, LENT OR OTHER WISE DISPOSE FOR ANY PURPOSE OTHER THAN THAT  | IPTION<br>Tel: 1-800<br>ID IS THE SO<br>ID IS THE SO<br>ID IS THE SO<br>ID OF DIRECTL<br>D OF DIRE | 0-661-<br>LE PRC<br>HIS CO<br>AT IT SCO<br>Y OR I<br>WAS F            | -2047<br>DPERTY<br>NDIREC<br>URNISH                            |   |
| 11, 13       PRELIMINARY         DATE       DESCR         RAPID-S         RAPID-S         RAPID-S         S DRAWING HAS NOT BEEN PUBLISHED AN<br>STRUCTURES LTD AND IS LENT TO THE BOO<br>IND IN CONSIDERATION OF THE LOAN OF<br>DA GREES TO RETURN IT UPON REQUEST A<br>CED, COPIED, LENT OR OTHERWISE DISPOSE<br>FOR ANY PURPOSE OTHER THAN THAT FOR<br>NORTHSTAR ENERGY SI<br>DECK CLIP PLATE         DATE:<br>JAN. 2012   | IPTION<br>Tel: 1-80<br>ID IS THE SO<br>RROWER FOR<br>THIS DRAWING<br>ID OF DIRECTL<br>DO OF DIRECTL<br>ID OF D                   | 0-661-<br>LE PRC<br>HSHE L<br>AT IT SCO<br>Y OR I<br>Y OR I<br>Y OR I | -2047<br>DPERTYN<br>BORRO<br>SHALL<br>NDIREC<br>URNISH         | RR<br>BY<br>DFAL<br>WEROT<br>XXYD:<br>282 |
| 11, 13       PRELIMINARY         DATE       DESCR         RAPID-S       RAPID-S         St http://www.rapidspan.com       S         S DRAWING HAS NOT BEEN PUBLISHED AND STRUCTURES LTD AND IS LENT TO THE BO IND IN CONSIDERATION OF THE LOAN OF A CED, COPIED, LENT OR OTHERWISE DISPOSE OF ANY PURPOSE OTHER THAN THAT FOR ANY PURPOSE OTHER THA | IPTION<br>Tel: 1-800<br>ID IS THE SO<br>ID IS THE SO<br>ID IS THE SO<br>ID OF DIRECTL<br>D OF DIRE | 0-661-<br>LE PRC<br>HSHE L<br>AT IT SCO<br>Y OR I<br>Y OR I<br>Y OR I | -2047<br>DPERTY<br>DPERTY<br>BORRO<br>SHALL<br>SHALL<br>URNIST |   |



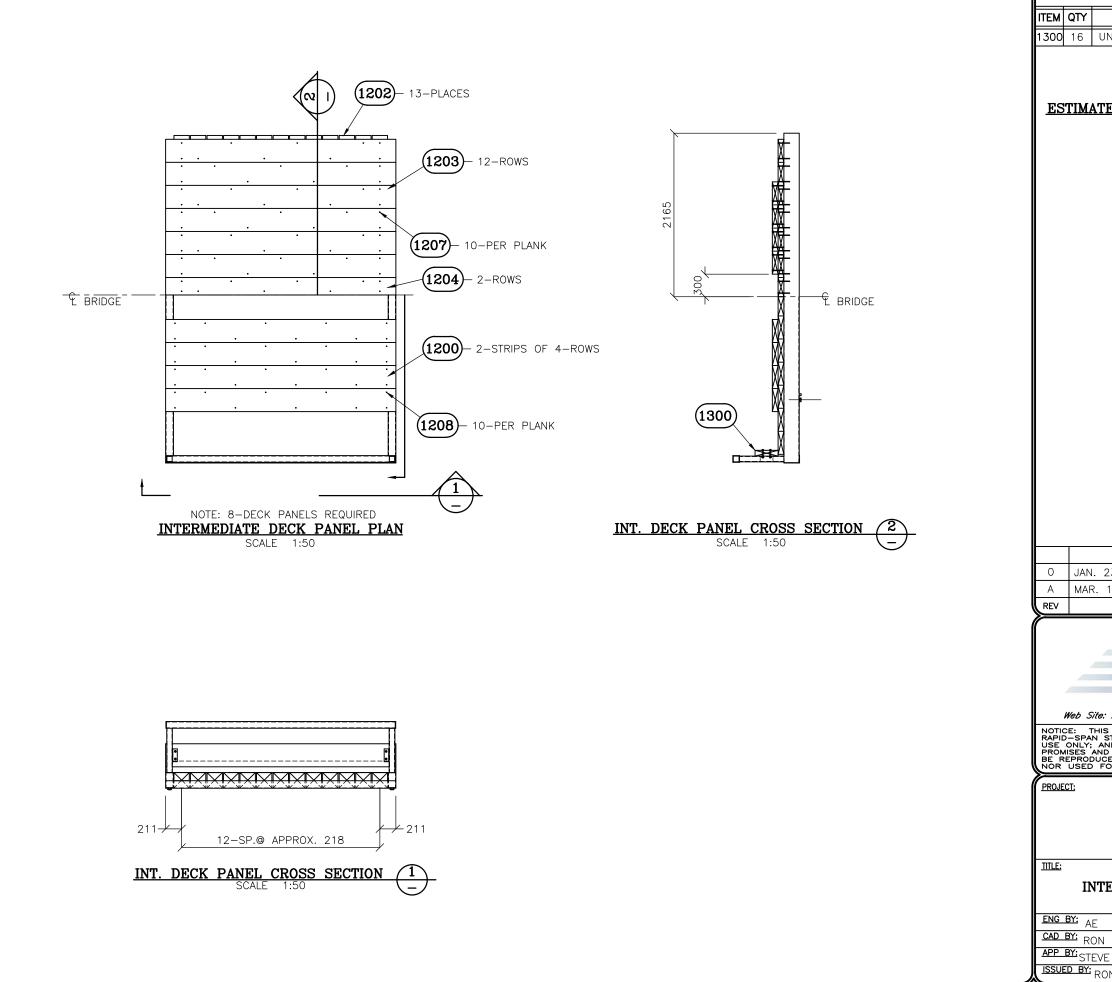
| $\square$                                    |                  | BILL OF                    | MATERIALS –                            | JOB # 6282   |  |  |
|--|------------------|----------------------------|--|--|--|--|
| ITEM   | QTY              | DESCRIPT                   | ION OR NAME                            | SIZE   | WT LBS. TOTAL                              |  |
| 1000   | 22               | FRAME STRUT                | MEMBER                                 | 203 x 101 x 6 HSS x  | 4380 6007                                  |  |
| 1001   | 20               | FRAME LONGIT               | UDINAL MEMBER                          | L102 x 102 x 6.4 L x   | 3045 1333                                  |  |
| 1002   | 4                | VERTICAL RAIL              |  | 89 x 89 x 6 HSS x  | 200 28                                     |  |
| 1003   | 4                | DIAGONAL RAIL              | -                                      | 89 x 89 x 6 HSS x  | 830 114                                    |  |
| 1004   | 4                | HORIZONTAL R               | AIL                                    | 89 x 89 x 6 HSS x 2  | 2349 324                                   |  |
| 1005   | 40               | RAIL POST                  |  | 76 x 76 x 6 HSS x  |  |  |
| 1006   | 44               | FRAME STRUT                |  | 6.35 x 95 x 1  |  |  |
| 1007   | 36               | RAIL CAP PLA               |  | 6.35 x 83 x  |  |  |
| 1008   | 4                | SINGLE CLIP A              |  | 65 x 65 x 6 L x  |  |  |
| 1009<br>1010                                 | 40<br>40         | DOUBLE CLIP<br>DECK KEEPER |  | 65 x 65 x 6 L x<br>25.4 x 25.4 x   |  |  |
| 1010   | 40               | HDG NUT                    |  | 1" DIA.  | 4  |  |
|  |                  |                            |  | I  |  |  |
|  |                  |                            |  |  |  |  |
| 0  | JAN              | . 23, 14                   | ISSUED FOR CONST                       | TRUCTION   | RR   |  |
| А  | MAF              | -                          | PRELIMINARY                            |  | RR   |  |
| REV  |                  | DATE                       | DE                                     | SCRIPTION  | BY   |  |
|  |                  | ite: http://www.rg         |  | -SPAN<br><i>Tel: 1-800-4</i><br>AND IS THE SOLE<br>BORROWER FOR HIS<br>OF THIS DRAWING, TI<br>ST AND AGREES THAT<br>OSED OF DIRECTLY<br>OF FOR WHICH IT WA |  |  |
|  |                  |                            |  |  |  |  |
| PROJECT:<br>NORTHSTAR ENERGY SERVICES INC.   |                  |                            |  |  |  |  |
| IIILE:<br>END DECK PANEL STEEL FRAME DETAILS |                  |                            |  |  |  |  |
|  |                  |                            |  |  | Lij  |  |
| ENG  | BY: A            | E                          | DATE: JAN. 2012                        | EAD: RSB   | <u>B NO.:</u> 6282                         |  |
| ENG<br>CAD                                   | BY: R            | E<br>ON RIEMENS            | DATE: JAN. 2012 L<br>DATE: MAR. 11, 13 | EAD: RSB JC  |  |  |
| ENG<br>CAD<br>APP                            | BY: RO<br>BY: ST | E                          | DATE: JAN. 2012 L<br>DATE: MAR. 11, 13 | EAD: RSB JC  | <u>B NO.:</u> 6282<br>HEET 10 OF 13<br>REV |  |



|                  | እርለጥፑነ  | RIALS –   | IOD   | Ш                   | 6282  |  |   |
|------------------|---|---|---|---------------------|---|--|---|
| DESCRIPTION      |   |   | - 10D   | #                   | SIZE  | WT   | LBS.  |
| HORIZONTAL RA    |   |   | 80  | v 80                | x 6 HSS x 3027  |  | LBS.  |
|                  |   |   | 03  | X 03                | X 0 1133 X 3027   |  | 1008  |
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| 23, 14           | ISSUED  | FOR CON   | STRUCT  | ION                 |   |  | RR  |
| 23, 14<br>11, 13 | ISSUED<br>PRELIMI   |   | STRUCT  | ION                 |   |  | RR  |
|                  |   | NARY  | STRUCT  |                     |   |  |   |
| 11, 13<br>DATE   | PRELIMI   | NARY  | DESCRIPTI   | ION                 |   |  | RR  |
| 11, 13<br>DATE   | PRELIMI   | NARY  | DESCRIPTI   | ION                 |   |  | RR  |
| 11, 13<br>DATE   | PRELIMI   | NARY  | DESCRIPTI   | ION                 |   |  | RR  |
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| 11, 13<br>DATE   | PRELIMI<br>R  | NARY<br>APIC<br>7   | Descripti   | ION<br>P/           | AN<br>- 1-800-661   |  | RR<br>BY  |
| 11, 13<br>DATE   | PRELIMI<br>R  | NARY<br>APIC<br>7   | Descripti   | ION<br>P/           | AN<br>- 1-800-661   |  | RR<br>BY  |
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| 11, 13<br>DATE   | PRELIMI<br>idspan.com<br>NOT BEE<br>NOT BEE<br>RATION OF<br>ETURN IT<br>NT OR OT<br>SSE OTHE  | NARY<br>APIC<br>TN PUBLISH<br>LENT TO TH<br>F THE LOAN<br>HERWISE DI<br>R THAN TH   | DESCRIPTI<br>D-S<br>= BORR<br>= | Tell<br>Tell<br>S T | ANO-661<br>HE SOLE PR<br>R FOR HIS CC<br>RAWING, THE<br>SEES THAT IT<br>DIRECTLY OR<br>CH IT WAS F                                      |  | RR<br>BY  |
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| 11, 13<br>DATE   | PRELIMI<br>idspan.con<br>NOT BEE<br>NATION OF<br>NATION OF<br>TAR EI<br>DECK I<br>DECK I<br>DATE: JAN.<br>DATE: MAR                         | NARY APIC T APIC T APIC A T A T A T A T A T A T A T A T A T A T | DESCRIPTI<br>D-S<br>D-S<br>D-S<br>SERVI<br>SERVI<br>SERVI<br>SERVI  |                     | AN<br>THE SOLE PR<br>FOR HIS CC<br>RAWING, THE<br>SEES THAT IT<br>DIRECTLY OR<br>CH IT WAS F<br>S INC.<br>RAME DE<br>ADD 1<br>HOWN SHEE |  | RR<br>BY<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freedouter<br>Freed   |
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| BILL OF MATERIALS – JOB # 6282 |                      |             |  |  |
|--------------------------------|----------------------|-------------|--|--|
| DESCRIPTION OR NAME            | SIZE                 | WEIGHT LBS. |  |  |
| JNTREATED RUNNING DECK PLANKS  | 3" x 12" x 10'-0"    | 4080        |  |  |
| JNTREATED MUD GUARD PLANKS     | 3" x 12" x 10'-0"    | 204         |  |  |
| CCA TREATED CROSS TIE          | 8" x 8" x 14'-2 1/2" | 21005       |  |  |
| CCA TREATED SUB DECK PLANKS    | 3" x 12" x 10'-0"    | 7920        |  |  |
| CCA TREATED SUB DECK PLANKS    | 3" x 10" x 10'-0"    | 1100        |  |  |
| GRADE A307 HDG CARRIAGE BOLT   | 1/2" DIA. x 4" LONG  | 32          |  |  |
| HDG NUT                        | 1/2" DIA.            | 3           |  |  |
| HDG FLAT WASHER                | 1/2" DIA.            | 3           |  |  |
| GRADE A307 HDG BOLT            | 3/4" DIA. x 9" LONG  | 27          |  |  |
| HDG NUT                        | 3/4" DIA.            | 3           |  |  |
| HDG FLAT WASHER                | 3/4" DIA.            | 2           |  |  |
| BRITE COMMON SPIKE             | 5/16" DIA. x 8" LONG | 274         |  |  |
| BRITE COMMON SPIKE             | 1/4" DIA. x 6" LONG  | 80          |  |  |
|                                |                      |             |  |  |



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|---|---|--|-------------------------------------|
|   | MATERIALS –   |  |                                     |
|   | ON OR NAME  | SIZE   | WEIGHT LBS.                         |
| INTREATED MU                                      | JD GUARD PLANKS   | 3" x 12" x 10'-0"  | 816                                 |
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| ED WEIGH  | <b>T:</b> 4,744 LBS. EAC  | Η  |                                     |
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| 23, 14  | ISSUED FOR CONS   | STRUCTION  | RR                                  |
| 11, 13  | PRELIMINARY   |  | RR                                  |
| DATE  |   | DESCRIPTION  | BY                                  |
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| : http://www.rap                                  | pidspan.com   | Tel: 1-800-661-  | -2047                               |
| S DRAWING HAS                                     | NOT BEEN PUBLISHE   | D AND IS THE SOLE PRO  | PERTY OF                            |
| ND IN CONSIDE<br>D AGREES TO R<br>CED, COPIED, LE | RATION OF THE LOAN<br>ETURN IT UPON REQUE<br>ENT OR OTHERWISE DIS | ED AND IS THE SOLE PRO<br>E BORROWER FOR HIS CO<br>OF THIS DRAWING, THE I<br>ST AND AGREES THAT IT<br>SPOSED OF DIRECTLY OR I<br>AT FOR WHICH IT WAS F | BORROWER<br>SHALL NOT<br>NDIRECTLY. |
| OR ANY PURPO                                      | OSE OTHER THAN TH   | AT FOR WHICH IT WAS F  | URNISHED.                           |
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| NORTHS  | TAR ENERGY S  | SERVICES INC.  |                                     |
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| ERMEDIATI   | E TIMBER DECI   | K PANEL ASSEMB   | LY                                  |
| F   |   | LEAD: JOB N  | 0.                                  |
|   | DATE: JAN. 2012<br>DATE: MAR 11 13                                | B/R  | 0202                                |
| I RIEWIENS  | DATE: MAR. 11, 13<br>DATE: SEPT. 25, 13                           | SCALE:<br>AS SHOWN SHEET<br>DRAWING NUMBER:  | 13 OF 13<br>REV                     |
| 'E BUBURUZ -<br>ON RIEMENS -                      | DATE: JAN. 23, 14   | RS-6282-13   | $\triangle$                         |
|   |   |  |                                     |