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| SURVEY DATA       | STATIONING        |
|-------------------|-------------------|
| MATCHLINE 4100+00 | MATCHLINE 4150+00 |

| ENGINEERING DATA              | MATERIAL          |
|-------------------------------|-------------------|
| MATCHLINE 4100+00             | MATCHLINE 4150+00 |
| 4104+87                       | 4113+74           |
| 4123+64<br>4123+84            | 4143+18           |
| 4123+69<br>4123+74<br>4123+91 | 4144+18           |
| 4133+32                       |                   |

| ENVIRONMENTAL DATA          | STATIONS          |
|-----------------------------|-------------------|
| MATCHLINE 4100+00           | MATCHLINE 4150+00 |
| WATERBODY/WETLAND CROSSINGS | W-404             |
| WATERBODY/WETLAND LENGTH    | 582'              |

| ENVIRONMENTAL DATA                | STATIONS               |
|-----------------------------------|------------------------|
| PERMANENT EROSION CONTROL         | THIS BAND NOT UTILIZED |
| SLOPE BREAKER CODE                | THIS BAND NOT UTILIZED |
| TOPSOIL SAVAGE                    | THIS BAND NOT UTILIZED |
| THREATENED AND ENDANGERED SPECIES | THIS BAND NOT UTILIZED |
| TIMING CONSTRAINT                 | THIS BAND NOT UTILIZED |
| CONSTRAINT 2                      | THIS BAND NOT UTILIZED |
| CONSTRAINT 3                      | THIS BAND NOT UTILIZED |
| CONSTRAINT 4                      | THIS BAND NOT UTILIZED |

| BILL OF MATERIALS |      |     |   |
|-------------------|------|-----|---|
| ITEM NO.          | QTY  | UOM | DESCRIPTION   |
| Z                 | 5000 | FT  | 30" O.D. x 0.429" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE |

| MISCELLANEOUS MATERIALS |     |             |   |
|-------------------------|-----|-------------|---|
| QTY                     | UOM | REQ# NUMBER | DESCRIPTION                                     |
| 57                      | EA  |             | SET ON WEIGHTS                                  |
| 3                       | EA  |             | PIPELINE MARKERS                                |
| 3                       | EA  |             | WARNING SIGNS                                   |
| 1                       | EA  |             | CATHODIC PROTECTION STD. CP TEST STATION TYPE 1 |
| 0                       | EA  |             | CP TEST STATION TYPE 2                          |
| 0                       | EA  |             | AERIAL MARKERS                                  |
| 0                       | EA  |             | ANODE BED DEEP WELL                             |

| TYPICAL DRAWINGS    |   |
|---------------------|---|
| DWG/FIELD BOOK NO.  | TITLE   |
| 21040-510-TYP-20001 | CATHODIC PROTECTION STD. SINGLE POINT TEST STATION, TYPE 1              |
| 21040-510-TYP-20002 | CATHODIC PROTECTION STD. FOREIGN PIPELINE CROSSING TEST STATION, TYPE 2 |
| 21040-510-TYP-20028 | TYPICAL OPEN CUT / BORE   |
| 21040-510-TYP-20029 | CONTINUOUS CONCRETE COATING STANDARD FOR 36" / 30" PIPELINE             |
| 21040-510-TYP-20112 | TYPICAL SADDLE BAG WEIGHTS  |
| 21040-510-TYP-20113 | WARNING SIGN DETAIL   |
| 21040-510-TYP-20115 | AERIAL MARKER INSTALLATION DETAIL                                       |
| 21040-510-TYP-20116 | AERIAL MARKER DETAIL  |
| 21040-510-TYP-20117 | TYPICAL PIPELINE MARKER ASSEMBLY  |
| 21040-510-TYP-20118 | PIPELINE MARKER "WARNING" DECAL   |

**GENERAL INFORMATION**

- THE MINIMUM DEPTH OF COVER FOR THE PROJECT IS 36 INCHES. ADDITIONAL DEPTH OF COVER IS REQUIRED FOR ROAD AND WATERBODY CROSSINGS, AND IS TO BE IN ACCORDANCE WITH REFERENCED PERMIT DRAWINGS, SITE SPECIFIC DRAWINGS, OR CONSTRUCTION SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
- THE BOUNDARIES OF ALL WORK AREAS WILL BE CLEARLY MARKED AND ALL WORK SHALL REMAIN WITHIN THE DESIGNATED WORK AREA.
- THE REQUIRED STATE ONE CALL NOTIFICATION IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR.
- THE CONTRACTOR SHALL ACCESS THE WORK AREA USING ONLY PUBLIC ROADS AND APPROVED ACCESS ROADS.
- ADDITIONAL WARNING SIGNS MAY BE REQUIRED AS DICTATED BY CONSTRUCTION CONTRACT.
- MAP PROJECTION: NAD 1983 HARN STATE PLANE FLORIDA EAST FIPS 0901 FEET. VERTICAL DATUM: NAVD 88.

**SPECIAL NOTES**

- INDUCTION BEND QUANTITIES ALONG WITH THEIR DESCRIPTIONS ARE LOCATED ON DRAWING 21040-505-FBW-00001.
- SEE ARK DRAWING PACKAGE FOR ANODE BED DEEP WELL.

| LEGEND              |                                |
|---------------------|--------------------------------|
| HDD PIPE            | PIPELINE ROUTE                 |
| BORE PIPE           | X FENCE                        |
| LINE PIPE           | P POWER LINE                   |
| 3R RAD FIT          | T TELEPHONE LINE               |
| INDUCTION BEND      | W WATERLINE                    |
| TRANSITION PIPE     | S SEWER LINE                   |
| CONT. CONC. COAT.   | B BURIED CABLE                 |
| SET ON WEIGHTS      | U UTILITY LINE                 |
| WARNING SIGN        | GENERAL SURVEY                 |
| MATERIAL ITEM       | FOREIGN PIPELINE               |
| AERIAL MARKER       | RAILROAD                       |
| CP TEST STATION     | PRIVATE ACCESS / SHOOLY ROAD   |
| BY MOV. BV & CV     | COUNTY BOUNDARY                |
| PIPELINE MARKER     | ROW PARCEL                     |
| PIPELINE MILEPOST   | PLSS SECTION LINE              |
| ANODE BED DEEP WELL | TRAP                           |
|                     | WATER WELL                     |
|                     | HDD ENTRY / EXIT               |
|                     | PERMANENT ROW                  |
|                     | TEMPORARY WORKSPACE            |
|                     | ADDITIONAL TEMPORARY WORKSPACE |
|                     | NON FORESTED WETLAND           |
|                     | FORESTED WETLAND               |
|                     | WATERBODY                      |
|                     | PARCEL NUMBER                  |
|                     | WETLAND / WATERBODY NAME       |
|                     | ROCKERY                        |
|                     | ROCKERY BUFFER (1000 FEET)     |
|                     | TYPICAL DETAIL CONFIGURATION   |
|                     | POINT OF INTERSECTION (PI)     |
|                     | VERTICAL FITTING               |
|                     | SPREAD BREAK                   |
|                     | ENVIRONMENTAL SURVEY AREA      |

| REVISIONS |  |            |          |
|-----------|--|------------|----------|
| NO.       | DESCRIPTION                              | DATE       | REV BY   |
| 1         | IFC (UPDATE ENV., RE-ROUTES, FOOT-PRINT) | 2016-04-08 | MB MJ RG |
| 0         | ISSUED FOR CONSTRUCTION                  | 2015-12-15 | MB MJ RG |

**APPROVALS**

|                  |    |                              |          |
|------------------|----|------------------------------|----------|
| DRAWN BY:        | MB | CONSTRUCTION PERMIT NO.      |          |
| CHECKED BY:      | MJ | MAINTENANCE OPERATION REGION |          |
| PROJECT MANAGER: | RG | MIN. TEST PRESSURE           | 1816 PSI |
| PROJECT DEF. NO. |    | DESIGN PRESSURE              | 1440 PSI |

**UniversalPegasus INTERNATIONAL**  
A Subsidiary of Huntington Ingalls Industries

**FLORIDA SOUTHEAST CONNECTION**

FLORIDA SOUTHEAST CONNECTION PROJECT  
STA: 4100+00 TO 4150+00 DISCIPLINE: 03

**FLORIDA SOUTHEAST CONNECTION ALIGNMENT SHEET**  
OKEECHOBEE COUNTY, FLORIDA

SCALE: 1" = 200' 21040-510-ALS-00087 REV. 1