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SURVEY DATA		STATIONING		MATCHLINE 2750+00	MATCHLINE 2800+00
ENGINEERING DATA		MATERIAL		MATCHLINE 2750+00	MATCHLINE 2800+00
ENVIRONMENTAL DATA		STATIONS		MATCHLINE 2750+00	MATCHLINE 2800+00

BILL OF MATERIALS				
ITEM NO.	QTY	UOM	REQ'D NUMBER	DESCRIPTION
1	2460	FT		36" O.D. x 0.520" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE
4	2460	FT		36" O.D. x 0.750" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE & 24-30 MILS ARO
5	80	FT		36" O.D. x 0.625" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE

MISCELLANEOUS MATERIALS				
QTY	UOM	REQ'D NUMBER	MATERIAL NUMBER	DESCRIPTION
44	EA			SET ON WEIGHTS
3	EA			PIPELINE MARKERS
0	EA			WARNING SIGNS
1	EA			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-20113	TYPICAL SADDLE BAG WEIGHTS			
21040-510-TYP-20114	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	FENCE
LINE PIPE	POWER LINE
3R RAD PIT	TELEPHONE LINE
INDUCTION BEND	WATERLINE
TRANSITION PIPE	SEWER LINE
CONT. CONC. COAT.	BURIED CABLE
SET ON WEIGHTS	UTILITY LINE
WARNING SIGN	GENERAL SURVEY
MATERIAL ITEM	FOREIGN PIPELINE
AERIAL MARKER	RAILROAD
CP TEST STATION	HIGHWAY / ROAD
BV MOV. BV & CV	PRIVATE ACCESS / SHOOLY ROAD
PIPELINE MARKER	COUNTY BOUNDARY
PIPELINE MILEPOST	ROW PARCEL
ANODE BED DEEP WELL	PLSS SECTION LINE
	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	CHK BY
1	IFC (UPDATE ENV. RE-ROUTES, FOOT-PRINT)	2016-04-08	MB	MJ
0	ISSUED FOR CONSTRUCTION	2015-12-15	MB	MJ

**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: 2750+00 TO 2800+00 | DISCIPLINE: 03

**FLORIDA SOUTHEAST CONNECTION ALIGNMENT SHEET**  
POLK AND OSCEOLA COUNTIES, FLORIDA

SCALE: 1" = 200' | 21040-510-ALS-00060 | REV. 1