



**DISCLAIMER: UNIVERSALPEGASUS INTERNATIONAL MAKES NO WARRANTY (EXPRESSED, IMPLIED OR OTHERWISE) THAT THE INFORMATION CONTAINED HEREIN IS ACCURATE OR COMPLETE AS TO ANY AND ALL SUBSURFACE CONDITIONS AND CONFORMATION. ANY RELIANCE CONTRACTOR PLACES ON THE INFORMATION CONTAINED HEREIN AS TO SUCH CONDITIONS, IS DONE SO AT ITS OWN RISK AND EXPENSE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE STATE "ONE CALL" SYSTEM PRIOR TO ANY EXCAVATION.**

SURVEY DATA		STATIONING	
MATCHLINE 2800+00	MATCHLINE 2850+00	2800+00	2850+00

ENGINEERING DATA		MATERIAL	
2800+00	2850+00	2800+00	2850+00

ENVIRONMENTAL DATA		STATIONS	
MATCHLINE 2800+00	MATCHLINE 2850+00	2800+00	2850+00

BILL OF MATERIALS			
ITEM NO.	QTY	UOM	DESCRIPTION
1	1730	FT	36" O.D. x 0.520" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE
3	180	EA	36" O.D. x 0.625" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE & 24-30 MILS ARO
4	2940	EA	36" O.D. x 0.750" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE & 24-30 MILS ARO
5	80	EA	36" O.D. x 0.625" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE
6	40	EA	36" O.D. x 0.750" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE

MISCELLANEOUS MATERIALS			
QTY	UOM	REQN NUMBER	DESCRIPTION
4	EA		SET ON WEIGHTS
4	EA		PIPELINE MARKERS
2	EA		WARNING SIGNS
2	EA		CP TEST STATION TYPE 1
0	EA		CP TEST STATION TYPE 2
0	EA		AERIAL MARKERS
1	EA		ANODE BED DEEP WELL

TYPICAL DRAWINGS			
DWG/FIELD BOOK NO.	TITLE	DESCRIPTION	DATE
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-20114	AERIAL MARKER INSTALLATION DETAIL		
21040-510-TYP-20115	AERIAL MARKER DETAIL		
21040-510-TYP-20116	TYPICAL PIPELINE MARKER ASSEMBLY		
21040-510-TYP-20117	PIPELINE MARKER "WARNING" DECAL		

GENERAL INFORMATION			
1.	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.		
2.	THE BOUNDARIES OF ALL WORK AREAS WILL BE CLEARLY MARKED AND ALL WORK SHALL REMAIN WITHIN THE DESIGNATED WORK AREA.		
3.	THE REQUIRED STATE ONE CALL NOTIFICATION IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR.		
4.	THE CONTRACTOR SHALL ACCESS THE WORK AREA USING ONLY PUBLIC ROADS AND APPROVED ACCESS ROADS.		
5.	ADDITIONAL WARNING SIGNS MAY BE REQUIRED AS DICTATED BY CONSTRUCTION CONTRACT.		
6.	MAP PROJECTION: NAD 1983 HARN STATE PLANE FLORIDA EAST FIPS 0901 FEET. VERTICAL DATUM: NAVD 88.		

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

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

FITTINGS SUMMARY			
ITEM NO.	QTY	UOM	DESCRIPTION
1	EA		10" 3R VERTICAL FITTING
2	EA		90" 3R HORIZONTAL FITTING

CONTINUOUS CONCRETE COATING			
QTY	UOM	REQN NUMBER	DESCRIPTION
			PIPE COATING: 14 MIL MINIMUM FBE AND 24 MIL MINIMUM ARO
			GIRTH WELD COATING: 2 PART EPOXY
			INTERNAL COATING (YES/NO): NO

PIPE COATING DATA			
QTY	UOM	DESCRIPTION	
1	EA	MLBV 6 (30')	

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

APPROVALS			
DRAWN BY:	MB	CONSTRUCTION PERMIT NO.	
CHECKED BY:</			