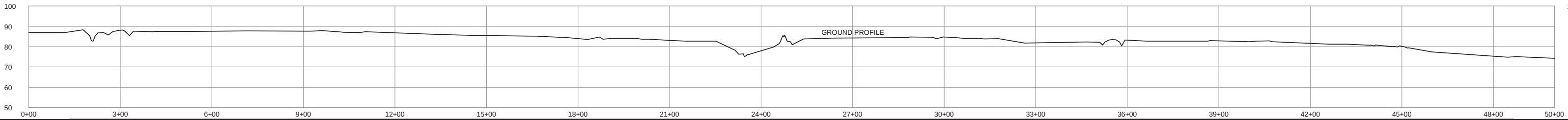
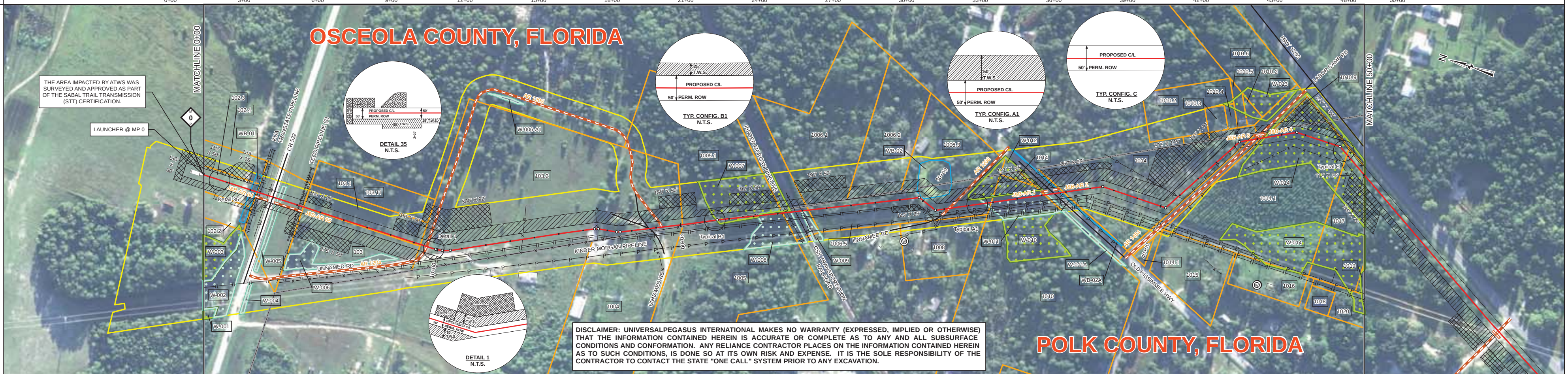
TRACT	MATCHLINE 0+00	102.3 SABAL TRAIL TRANSMISSION, LLC 227 FT 0+00 TO 2+27	CR 532 OSCEOLA COUNTY 200 FT 2+27 TO 4+27	103.1 LUIS MARCELIN, SR., ET AL 500 FT 4+27 TO 9+27	103.2 DIAMONDBACK LAND COMPANY, LLC 1082 FT 9+27 TO 20+09	1005.1 JOSTAM PROPERTY INC. 190 FT 20+09 TO 21+99	1005 WILLIAM A. WORRELL AND RICHARD A. BRUNO 219 FT 21+99 TO 24+18	CSX TRANSPORTATION RAILROAD 107 FT 24+18 TO 25+25	1006.5 CAROL GRIMES 768 FT 25+25 TO 32+93	1010 LOUGHMAN COMMUNITY ASSOCIATION, INC. 219 FT 32+93 TO 35+12	OLD KISSIMMEE HWY POLK COUNTY 78 FT 35+12 TO 35+90	1014 US92-49 LAND TRUST, C/O W. T. PAUL LIAU, TRUSTEE 875 FT 35+90 TO 44+65	LABOR CAMP RD POLK COUNTY 52 FT 44+65 TO 45+17	1014.1 DUKE ENERGY FLORIDA, INC. 375 FT 45+17 TO 48+92	1017 DUKE ENERGY FLORIDA, INC. 108 FT 48+92 TO 50+00	MATCHLINE 50+00

GROUND PROFILE HORIZ: 1" = 200' VERT: 1" = 30'



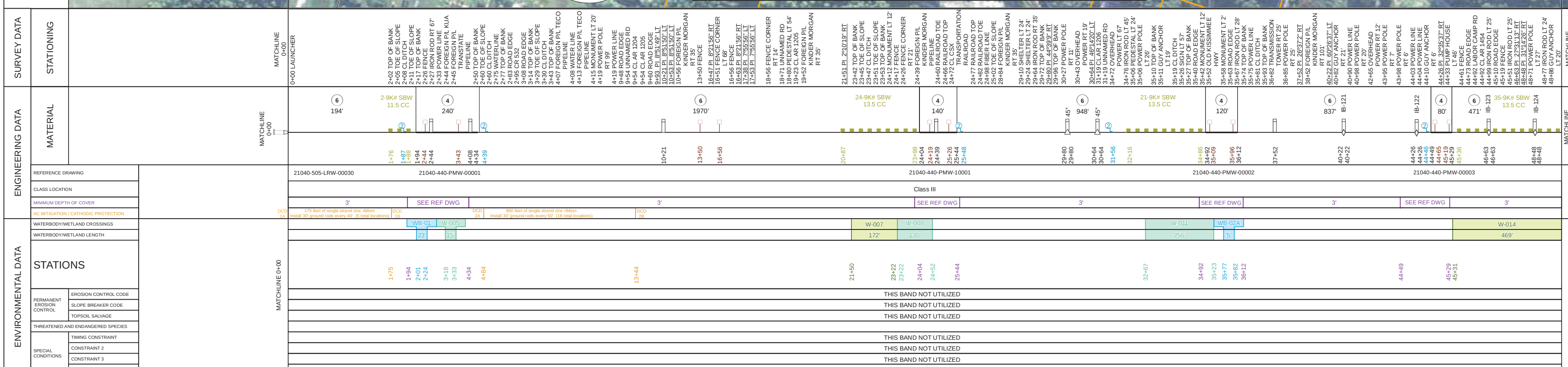
SCALE: 1" = 200'



SURVEY DATA — STATIONING

ENGINEERING DATA — MATERIAL

ENVIRONMENTAL DATA — STATIONS



BILL OF MATERIALS

ITEM NO.	QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
4	580	FT			36" O.D. x 0.750" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE & 24-30 MILS ARO
6	4420	FT			36" O.D. x 0.750" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE

FITTINGS SUMMARY

ITEM NO.	QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
	2	EA			45° 3R HORIZONTAL FITTING

PIPE ASSEMBLIES

QTY	UOM	DESCRIPTION
1	EA	LAUNCHER

MISCELLANEOUS MATERIALS

QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
82	EA			SET ON WEIGHTS
11	EA			PIPELINE MARKERS
10	EA			WARNING SIGNS
0	EA			CP TEST STATION TYPE 1
5	EA			CP TEST STATION TYPE 2
0	EA			AERIAL MARKERS
0	EA			ANODE BED DEEP WELL

CONTINUOUS CONCRETE COATING

QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION

PIPE COATING DATA

PIPE COATING: 14 MIL MINIMUM FBE AND 24 MIL MINIMUM ARO
GIRTH WELD COATING: 2 PART EPOXY
INTERNAL COATING (YES/NO): NO

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 21040-510-TYP-20029	TYPICAL OPEN CUT / BORE
21040-510-TYP-20112	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

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.

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.

LEGEND

HDD PIPE
BORE PIPE
LINE PIPE
3R RAD FIT
INDUCTION BEND
TRANSITION PIPE
CONT. CONC. COAT.
SET-ON WEIGHTS
WARNING SIGN
MATERIAL ITEM
AERIAL MARKER
CP TEST STATION
BV MOV / BV & CV
PIPELINE MARKER
PIPELINE MILEPOST
ANODE BED DEEP WELL
PIPELINE ROUTE
FENCE
POWER LINE
TELEPHONE LINE
WATERLINE
SEWER LINE
BURIED CABLE
UTILITY LINE
GENERAL SURVEY
FOREIGN PIPELINE
RAILROAD
HIGHWAY / ROAD
PRIVATE ACCESS / SHOOFLY ROAD
COUNTY BOUNDARY
ROW PARCEL
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
ROOKERY
ROOKERY 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	APP 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

	APPROVAL	COMPANY
ENVIRONMENTAL		
LAND		

0 100 200 400 600 800

1 INCH = 200 FT

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

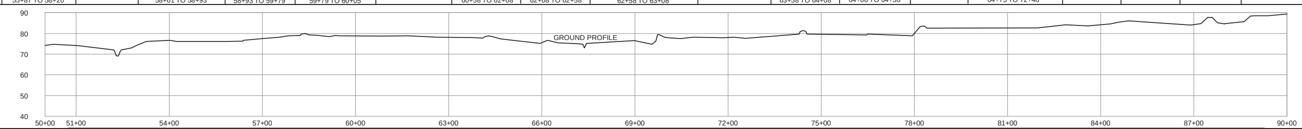
STA: 0+00 TO 50+00 | DISCIPLINE#: 03

FLORIDA SOUTHEAST CONNECTION ALIGNMENT SHEET OSCEOLA AND POLK COUNTIES, FLORIDA

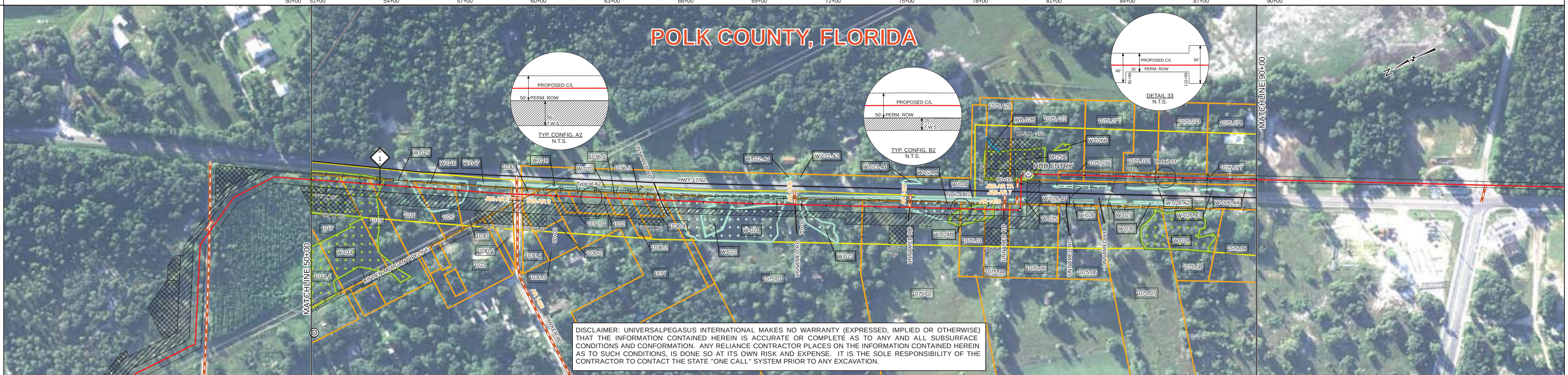
SCALE: 1" = 200' | 21040-510-ALS-00001 | REV. 1

TRACT	MATCHLINE 50+00	1017 DUKE ENERGY FLORIDA, INC. 127 FT 50+00 TO 51+27	1019 ROGER VICKERS 118 FT 51+27 TO 52+45	1021 W.T. PAUL LIAU, TRUSTEE 189 FT 52+45 TO 54+34	1025 JO ANN HOWARD, AND FREDERICK LAMAR HOWARD, SR. 153 FT 54+34 TO 55+87	1030 JEFFREY T. GRANT AND MARIE GRANT MACKEY 233 FT 55+87 TO 58+20	PARKER ROAD POLK COUNTY, FLORIDA 41 FT 58+20 TO 58+61	1030 JEFFREY T. GRANT AND MARIE GRANT MACKEY 32 FT 58+61 TO 58+93	1030.2 GLADYS JONES AND ERIC JONES 86 FT 58+93 TO 59+79	1031 RAYMOND WILSON AND CYNTHIA WILSON 26 FT 59+79 TO 60+05	1031.01 CORINE W. ALLEN 53 FT 60+05 TO 60+58	1032 HENRY BELL AND BERNICE BELL 150 FT 60+58 TO 62+08	1036.1 HELEN P.BODDIE AND COREY P. BODDIE 50 FT 62+08 TO 62+58	1036.2 RAYMOND KENNETH WILSON AND CYNTHIA JEAN WILSON 50 FT 62+58 TO 63+08	1036.3 LORINE DIRCKSON 50 FT 63+08 TO 63+58	1036.4 EDDIE LEE SCOTT AND JANIE LEE SCOTT 50 FT 63+58 TO 64+08	1031 RAYMOND WILSON AND CYNTHIA WILSON 30 FT 64+08 TO 64+38	POLK COUNTY ROW 35 FT 64+38 TO 64+73	1075.01 BIBI ALLI, MOHAMED ALLI, LELAUTIE ALLII 775 FT 64+73 TO 72+48	1075.02 DUKE ENERGY FLORIDA, INC. 400 FT 72+48 TO 76+48	1075.03 POLK COUNTY 100 FT 76+48 TO 77+48	1075.04 POLK COUNTY 100 FT 77+48 TO 78+48	1075.05 S & R INVESTMENTS USA, INC. 70 FT 78+48 TO 79+18	U.S. HIGHWAY 17/92 STATE ROAD 600 FDOT 100 FT 79+18 TO 80+18	1075.122 POLYAK DEVELOPMENT, INC. 178 FT 80+18 TO 81+96	1075.076 FLORIDA DEPARTMENT OF TRANSPORTATION 100 FT 81+96 TO 82+96	1075.077 FLORIDA DEPARTMENT OF TRANSPORTATION 704 FT 82+96 TO 90+00	MATCHLINE 90+00

GROUND PROFILE HORIZ: 1" = 200' VERT: 1" = 30'



SCALE: 1" = 200'



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SURVEY DATA — STATIONING

ENGINEERING DATA — MATERIAL

26-9K# SBW 13.5 CC | 810' | 25-9K# SBW 13.5 CC | 160' | 436' | 40' | 47-9K# SBW 13.5 CC | 1462' | 35-9K# SBW 13.5 CC | 120' | 43' | 4-9K# SBW 13.5 CC | 929'

REFERENCE DRAWING	21040-440-PMW-00004 / 21040-440-PMW-00005 / 21040-505-HDW-21022
CLASS LOCATION	Class III
MINIMUM DEPTH OF COVER	3' / 4' / 3' / SEE REF DWG / 3' / 5' / 3' / 4' / 3' / SEE REF DWG / SEE REF DWG
AC MITIGATION / CATHODIC PROTECTION	

ENVIRONMENTAL DATA

WATERBODY/WETLAND CROSSINGS	W-014 / W-016 / W-021 / W-022 / W-024 / W-025A
WATERBODY/WETLAND LENGTH	286' / 223' / 150' / 200' / 16' / 241' / 110' / 80'

STATIONS

PERMANENT EROSION CONTROL	EROSION CONTROL CODE	THIS BAND NOT UTILIZED
	SLOPE BREAKER CODE	THIS BAND NOT UTILIZED
	TOPSOIL SALVAGE	THIS BAND NOT UTILIZED
THREATENED AND ENDANGERED SPECIES		
SPECIAL CONDITIONS	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	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
4	1249	FT			36" O.D. x 0.750" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE & 24-30 MILS ARO
6	2751	FT			36" O.D. x 0.750" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE

FITTINGS SUMMARY

ITEM NO.	QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
	1	EA			8° 3R VERTICAL FITTING
	2	EA			90° 3R HORIZONTAL FITTING

PIPE ASSEMBLIES

QTY	UOM	DESCRIPTION

MISCELLANEOUS MATERIALS

QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
137	EA			SET ON WEIGHTS
2	EA			PIPELINE MARKERS
7	EA			WARNING SIGNS
0	EA			CP TEST STATION TYPE 1
1	EA			CP TEST STATION TYPE 2
0	EA			AERIAL MARKERS
0	EA			ANODE BED DEEP WELL

CONTINUOUS CONCRETE COATING

QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION

PIPE COATING DATA

PIPE COATING: 14 MIL MINIMUM FBE AND 24 MIL MINIMUM ARO
GIRTH WELD COATING: 2 PART EPOXY
INTERNAL COATING (YES/NO): NO

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 21040-510-TYP-20029	TYPICAL OPEN CUT / BORE
21040-510-TYP-20112	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

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.

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.

LEGEND

HDD PIPE
BORE PIPE
LINE PIPE
3R RAD FIT
INDUCTION BEND
TRANSITION PIPE
CONT. CONC. COAT.
SET-ON WEIGHTS
WARNING SIGN
MATERIAL ITEM
AERIAL MARKER
CP TEST STATION
BV MOV / BV & CV
PIPELINE MARKER
PIPELINE MILEPOST
ANODE BED DEEP WELL
PIPELINE ROUTE
FENCE
POWER LINE
TELEPHONE LINE
WATERLINE
SEWER LINE
BURIED CABLE
UTILITY LINE
GENERAL SURVEY
FOREIGN PIPELINE
RAILROAD
HIGHWAY / ROAD
PRIVATE ACCESS / SHOOFLY ROAD
COUNTY BOUNDARY
ROW PARCEL
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
ROOKERY
ROOKERY 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	APP 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

	APPROVAL	COMPANY
ENVIRONMENTAL		
LAND		

0 100 200 400 600 800

1 INCH = 200 FT

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: 50+00 TO 90+00 | DISCIPLINE#: 03

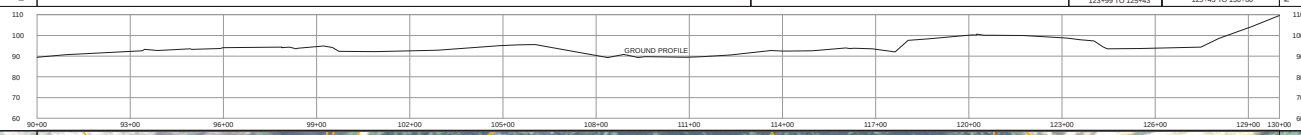
FLORIDA SOUTHEAST CONNECTION ALIGNMENT SHEET POLK COUNTY, FLORIDA

SCALE: 1" = 200' | 21040-510-ALS-00002 | REV. 1

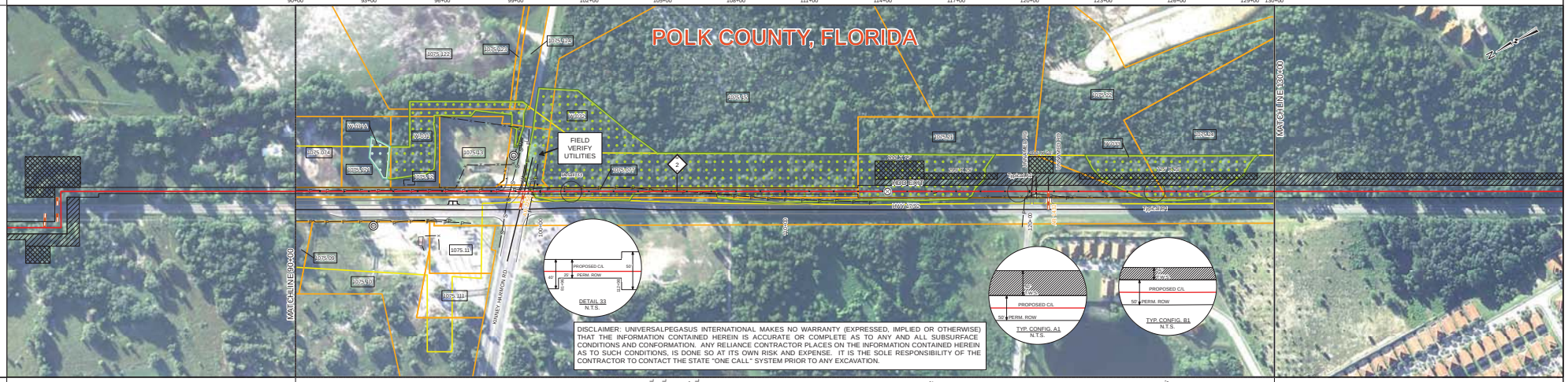
SHEET 2

TRACT	1075.077 FLORIDA DEPARTMENT OF TRANSPORTATION 2298 FT 90+00 TO 112+98	1075.21 POLK INVESTMENT, LLC 1101 FT 112+98 TO 123+99	1075.22 APPLIED BUILDING DEVELOPMENT COMPANY-OAKHILLS, INC. 144 FT 123+99 TO 125+43	1075.24 APPLIED BUILDING DEVELOPMENT COMPANY-OAKHILLS, INC. 457 FT 125+43 TO 130+00

GROUND PROFILE HORIZ: 1" = 200' VERT: 1" = 30'



SCALE: 1" = 200'



SURVEY DATA — STATIONING

MATCHLINE 90+00: 90+20 FENCE CORNER LT 12' · 90+58 POWER POLE LT 4' · 90+99 ROAD EDGE · 91+31 ROAD EDGE · 91+51 POWER POLE LT 7' · 92+48 POWER POLE · 92+64 ROAD EDGE · 92+70 ROAD EDGE · 93+44 POWER POLE · 93+66 POWER POLE LT 4' · 93+80 DRAIN RT 7' · 93+89 POWER POLE · 94+00 BENCH MARK LT 9' · 94+08 OVERHEAD · 94+12 ROAD EDGE · 94+36 ROAD EDGE · 94+52 POWER POLE · 95+74 DRAIN RT 7' · 95+81 POWER POLE LT 4' · 95+88 FENCE CORNER LT 20' · 95+89 IRON ROD LT 15' · 96+52 DRIVE WAY RT 6' · 96+53 FENCE POST · 96+60 DRIVE WAY RT 6' · 96+70 ROAD EDGE · 96+72 ROAD EDGE · 96+14 POWER POLE LT 4' · 98+14 FENCE CORNER LT 35' · 98+15 POWER POLE · 98+38 ROAD EDGE · 98+39 ROAD EDGE · 98+76 SEWER LINE · 99+12 WATER LINE · 99+17 ROAD EDGE · 99+18 ROAD EDGE · 99+19 ROAD EDGE · 99+35 ROAD EDGE · 99+39 SKINNEY HARMON RD · 99+50 ROAD EDGE · 99+52 WATER LINE · 100+21 DRAIN RT 7' · 100+22 DRAIN LT 5' · 100+24 RETAINING WALL LT 6' · 100+48 DRAIN LT 6' · 101+65 DRAIN LT 6' · 102+42 DRAIN RT 7' · 103+54 SIDEWALK LT 11' · 103+64 RETAINING WALL LT 6' · 103+68 ROAD EDGE · 103+72 SIDEWALK RT 1' · 104+22 DRAIN RT 7' · 104+60 POWER POLE LT 4' · 105+52 SIDEWALK RT 1' · 105+57 ROAD EDGE · 105+62 SIDEWALK RT 3' · 105+99 POWER LINE · 106+14 IRON ROD LT 14' · 107+70 POWER POLE RT 9' · 109+47 CL DITCH · 112+98 MONUMENT RT 25' · 114+20 HDD EXIT · 116+16 FENCE CORNER LT 10' · 116+27 FENCE · 119+61 GUY ANCHOR RT 17' · 119+62 GUY ANCHOR RT 13' · 120+00 ROAD EDGE · 120+04 ROAD EDGE · 120+06 OVERHEAD · 120+14 ROAD EDGE · 120+15 POWER POLE · 120+16 ROAD EDGE · 120+25 POWER LINE · 120+26 GUY ANCHOR · 120+28 POWER POLE LT 10' · 120+38 POWER LINE · 120+75 POWER POLE · 120+77 CL AR 1432 · 120+77 POWER POLE · 120+77 POWER RT 18' · 124+44 WATER EDGE · 125+99 IRON ROD RT 25' · 127+37 WATER EDGE · MATCHLINE 130+00

ENGINEERING DATA — MATERIAL

MATCHLINE 90+00 · (4) 2420' · 6" · (6) 1580' · 1573'-7" CCC · MATCHLINE 130+00

99+33 · 110+09 · 114+20 · 114+20 · 114+27 · 116+27 · 127+28

REFERENCE DRAWING	21040-440-PMW-20073 · 21040-505-HDW-21022
CLASS LOCATION	Class III
MINIMUM DEPTH OF COVER	SEE REF DWG · 3'
AC MITIGATION / CATHODIC PROTECTION	2.5' of broader cover (two 36" sections either side of pipeline) · DCG-1A · 2.360' of decline/climb (two 1,180' sections either side of pipeline)
WATERBODY/WETLAND CROSSINGS	W-032 · W-032 · W-033
WATERBODY/WETLAND LENGTH	465' · 1053' · 379'

ENVIRONMENTAL DATA — STATIONS

MATCHLINE 90+00 · MATCHLINE 130+00

99+68 · 104+33 · 107+18 · 114+20 · 114+20 · 117+71 · 118+07 · 123+47 · 127+76 · 127+76

PERMANENT EROSION CONTROL — EROSION CONTROL CODE	THIS BAND NOT UTILIZED
PERMANENT EROSION CONTROL — SLOPE BREAKER CODE	THIS BAND NOT UTILIZED
PERMANENT EROSION CONTROL — TOPSOIL SALVAGE	THIS BAND NOT UTILIZED
THREATENED AND ENDANGERED SPECIES	Potential Sand Skink Habitat
SPECIAL CONDITIONS — TIMING CONSTRAINT	THIS BAND NOT UTILIZED
SPECIAL CONDITIONS — CONSTRAINT 2	THIS BAND NOT UTILIZED
SPECIAL CONDITIONS — CONSTRAINT 3	THIS BAND NOT UTILIZED
SPECIAL CONDITIONS — CONSTRAINT 4	THIS BAND NOT UTILIZED

BILL OF MATERIALS

ITEM NO.	QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
4	2420	FT			36" O.D. x 0.750" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE & 24-30 MILS ARO
6	1580	FT			36" O.D. x 0.750" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE

FITTINGS SUMMARY

ITEM NO.	QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
	1	EA			8" 3R VERTICAL FITTING

PIPE ASSEMBLIES

QTY	UOM	DESCRIPTION

MISCELLANEOUS MATERIALS

QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
0	EA			SET ON WEIGHTS
2	EA			PIPELINE MARKERS
2	EA			WARNING SIGNS
0	EA			CP TEST STATION TYPE 1
0	EA			CP TEST STATION TYPE 2
0	EA			AERIAL MARKERS
0	EA			ANODE BED DEEP WELL

CONTINUOUS CONCRETE COATING

QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
1573	FT			7" OF CONTINUOUS CONCRETE COATING (140 PCF DENSITY CONCRETE)

PIPE COATING DATA

PIPE COATING: 14 MIL MINIMUM FBE AND 24 MIL MINIMUM ARO

GIRTH WELD COATING: 2 PART EPOXY

INTERNAL COATING (YES/NO): NO

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 · 21040-510-TYP-20029	TYPICAL OPEN CUT / BORE
21040-510-TYP-20112	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

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.

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.

LEGEND

HDD PIPE · BORE PIPE · LINE PIPE · 3R ROAD PIT · INDUCTION BEND · TRANSITION PIPE · CONT CONC COAT · SET-ON WEIGHTS · WARNING SIGN · MATERIAL ITEM · AERIAL MARKER · CP TEST STATION · BV MOV / BV & CV · PIPELINE MARKER · PIPELINE MILEPOST · ANODE BED DEEP WELL · PIPELINE ROUTE · FENCE · POWER LINE · TELEPHONE LINE · WATERLINE · SEWER LINE · BURIED CABLE · UTILITY LINE · GENERAL SURVEY · FOREIGN PIPELINE · RAILROAD · HIGHWAY / ROAD · PRIVATE ACCESS / SHIDOFLY ROAD · COUNTY BOUNDARY · ROW PARCEL · 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 · ROOKERY · ROOKERY 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	APP 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

	APPROVAL	COMPANY
ENVIRONMENTAL		
LAND		

0 100 200 400 600 800

1 INCH = 200 FT

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: 90+00 TO 130+00 · DISCIPLINE#: 03

FLORIDA SOUTHEAST CONNECTION ALIGNMENT SHEET POLK COUNTY, FLORIDA

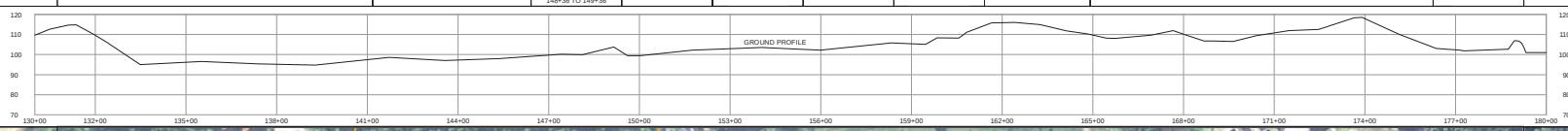
SCALE: 1" = 200' · 21040-510-ALS-00003 · REV. 1

SHEET 3

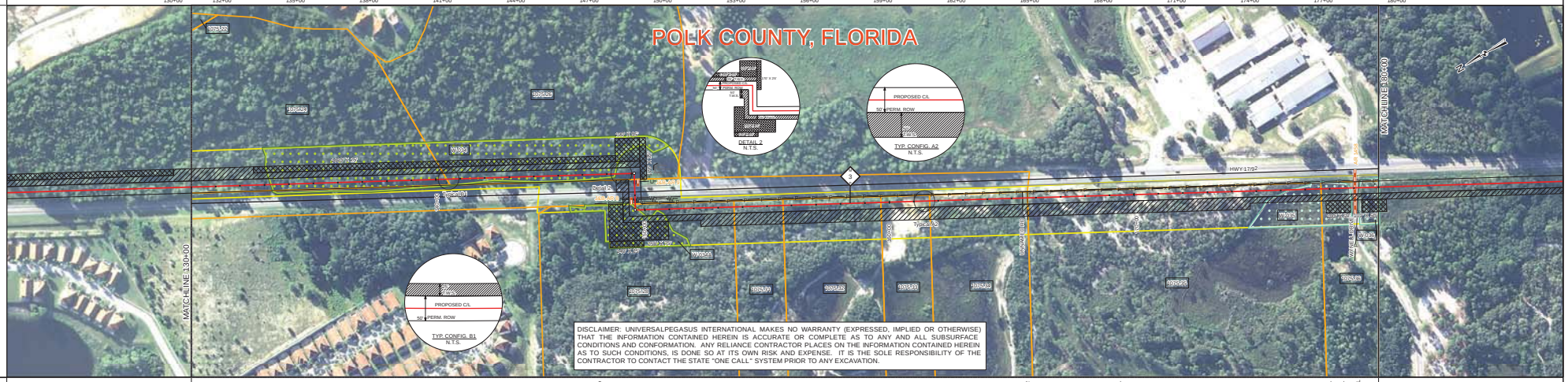
TRACT	1075.24 APPLIED BUILDING DEVELOPMENT COMPANY-OAKHILLS, INC. 1044 FT 130+00 TO 140+44	1075.26 APPLIED BUILDING DEVELOPMENT COMPANY-OAKHILLS, INC. 792 FT 140+44 TO 148+36	1075.27 U.S. HIGHWAY 17/92 / STATE ROAD 600 FDOT 100 FT 148+36 TO 149+36	1075.28 VIVEK INVESTMENT CORPORATION 429 FT 149+36 TO 153+65	1075.31 N.D. HOWARD 200 FT 153+65 TO 155+65	1075.32 VIVEK INVESTMENT CORPORATION 400 FT 155+65 TO 159+65	1075.33 AHILYA MATTOW AND CHANDRAWATI MARAJ 200 FT 159+65 TO 161+65	1075.34 VIVEK INVESTMENT CORPORATION 399 FT 161+65 TO 165+64	1075.35 STANDARD SAND & SILICA COMPANY 1200 FT 165+64 TO 177+64	1075.36 MARY GRESSETT-CHAPPIN 236 FT 177+64 TO 180+00

MATCHLINE 100+00 — MATCHLINE 180+00

GROUND PROFILE
HORIZ: 1" = 200'
VERT: 1" = 30'



SCALE: 1" = 200'



SURVEY DATA — STATIONING (MATCHLINE 100+00)

147+60 UNDERGROUND POWER LT 15'
148+11 FL BOYD LT
148+14 FL BOYD LT
148+45 ROAD EDGE
148+67 HWY 17/92
149+11 WATERLINE
149+12 POWER LINE
149+23 POWER LINE
149+63 FL BOYD LT
153+65 IRON ROD LT 25'
155+65 IRON ROD LT 25'
159+64 IRON ROD LT 25'
160+57 TOE OF SLOPE
160+83 TOP OF BANK
165+44 UNNAMED RD
165+54 FENCE
165+66 FENCE CORNER LT 24'
169+69 GUY ANCHOR LT 17'
177+12 WATER EDGE
177+14 MANHOLE LT 25'
178+79 WATER EDGE
179+00 GAYNELL DRIVE
179+03 WATER EDGE
179+11 ROAD EDGE
179+21 FDOT CONTROL BOX FT 13'
179+38 POWER LINE
179+39 GUY ANCHOR LT 15'
179+40 GUY ANCHOR LT 15'
179+45 STANING WALL LT 1'
179+56 WATER EDGE

MATCHLINE 180+00

ENGINEERING DATA — MATERIAL (MATCHLINE 100+00)

6 1828' — 1801'-7" CCC — 90' — 4 120' — 90' — 6-9K# SBW 13.5 CC — 6 2925' — 264'-7" CCC — 4 60' — 6 67' — 61'-7" CCC

133+27 — 140+01 — 140+11 — 140+25 — 140+26 — 140+36 — 140+48 — 149+41 — 149+66 — 150+34 — 165+64 — 176+02 — 179+52 — 179+72 — 179+73 — 179+74 — 179+90 — 179+92 — 179+93 — 179+98

REFERENCE DRAWING	21040-440-PMW-00007
CLASS LOCATION	Class III
MINIMUM DEPTH OF COVER	3' — SEE REF DWG — 3' — 4' — 3'
AC MITIGATION / CATHODIC PROTECTION	see 6 of elevation intended zinc ribbon DCD 4C — 1.374 ft of double intended zinc ribbon (two 60" sections on either side of the pipeline)

ENVIRONMENTAL DATA — STATIONS (MATCHLINE 100+00)

WATERBODY/WETLAND CROSSINGS	W-034 — W-034A — W-035 — W-036
WATERBODY/WETLAND LENGTH	1405 — 22 — 236 — 74
STATIONS	132+63 — 132+98 — 133+27 — 139+60 — 147+32 — 148+28 — 149+48 — 149+51 — 149+73 — 158+72 — 176+31 — 176+52 — 179+73 — 179+74 — 179+90 — 179+92 — 179+93
PERMANENT EROSION CONTROL: EROSION CONTROL CODE	THIS BAND NOT UTILIZED
PERMANENT EROSION CONTROL: SLOPE BREAKER CODE	THIS BAND NOT UTILIZED
PERMANENT EROSION CONTROL: TOPSOIL SALVAGE	THIS BAND NOT UTILIZED
THREATENED AND ENDANGERED SPECIES	Potential Sand Skink Habitat — Potential Sand Skink Habitat
SPECIAL CONDITIONS: TIMING CONSTRAINT	THIS BAND NOT UTILIZED
SPECIAL CONDITIONS: CONSTRAINT 2	THIS BAND NOT UTILIZED
SPECIAL CONDITIONS: CONSTRAINT 3	THIS BAND NOT UTILIZED
SPECIAL CONDITIONS: CONSTRAINT 4	THIS BAND NOT UTILIZED

MATCHLINE 180+00

BILL OF MATERIALS

ITEM NO.	QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
4	180	FT			36" O.D. x 0.750" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE & 24-30 MILS ARO
6	4820	FT			36" O.D. x 0.750" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE

FITTINGS SUMMARY

ITEM NO.	QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
	2	EA			90° 3R HORIZONTAL FITTING

PIPE ASSEMBLIES

QTY	UOM	DESCRIPTION

MISCELLANEOUS MATERIALS

QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
6	EA			SET ON WEIGHTS
4	EA			PIPELINE MARKERS
5	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

CONTINUOUS CONCRETE COATING

QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
2126	FT			7" OF CONTINUOUS CONCRETE COATING (140 PCF DENSITY CONCRETE)

PIPE COATING DATA

PIPE COATING: 14 MIL MINIMUM FBE AND 24 MIL MINIMUM ARO
GIRTH WELD COATING: 2 PART EPOXY
INTERNAL COATING (YES/NO): NO

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 21040-510-TYP-20029	TYPICAL OPEN CUT / BORE
21040-510-TYP-20112	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

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.

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.

LEGEND

HDD PIPE
BORE PIPE
LINE PIPE
IM IND RIT
INDUCTION BEND
TRANSITION PIPE
CONT. CONC. COAT
SET ON WEIGHTS
WARNING SIGN
MATERIAL ITEM
AERIAL MARKER
CP TEST STATION
BV MOV / BV & CV
PIPELINE MARKER
PIPELINE MILEPOST
ANODE BED DEEP WELL
PIPELINE ROUTE
FENCE
POWER LINE
TELEPHONE LINE
WATERLINE
SEWER LINE
BURIED CABLE
UTILITY LINE
GENERAL SURVEY
FOREIGN PIPELINE
RAILROAD
HIGHWAY / ROAD
PRIVATE ACCESS / SHOSPLY ROAD
COUNTY BOUNDARY
ROW PARCEL
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
ROOKERY
ROOKERY 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	APP 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

	APPROVAL	COMPANY
ENVIRONMENTAL		
LAND		

0 100 200 400 600 800
1 INCH = 200 FT

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: 130+00 TO 180+00 — DISCIPLINE#: 03

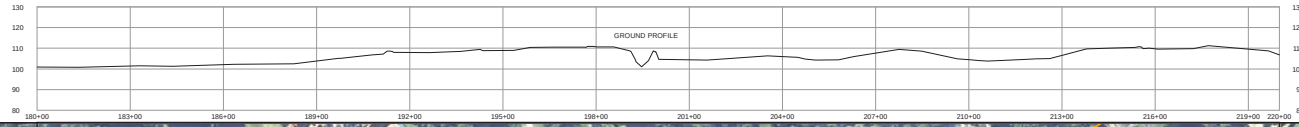
FLORIDA SOUTHEAST CONNECTION ALIGNMENT SHEET POLK COUNTY, FLORIDA

SCALE: 1" = 200' — 21040-510-ALS-00004 — REV. 1

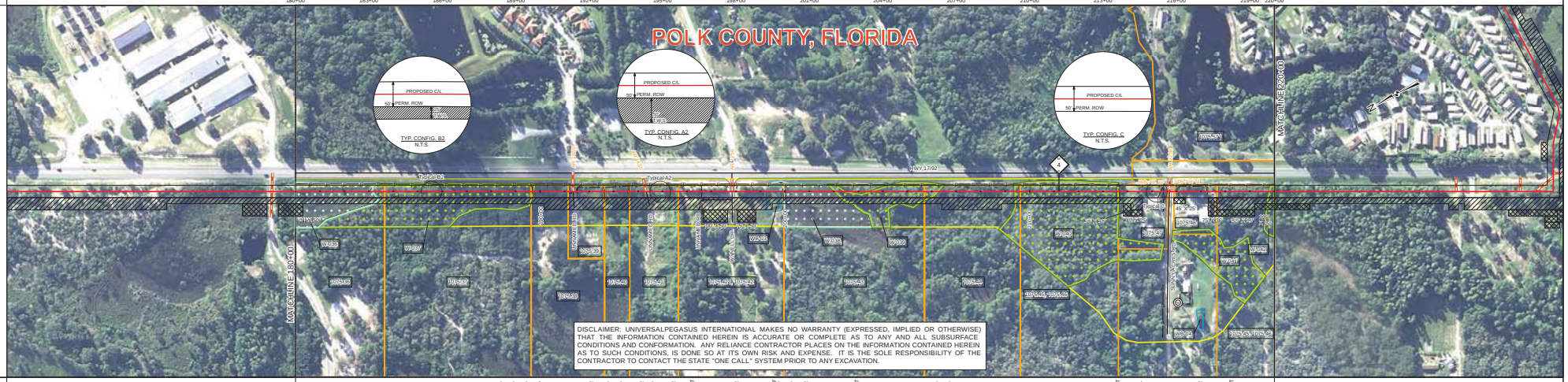
SHEET 4

TRACT	MATCHLINE 180+00	1075.36 MARY GRESSETT-CHAPPIN 364 FT 180+00 TO 183+64	1075.37 RTR II, LLC 599 FT 183+64 TO 189+63	1075.38 RTR II, LLC 151 FT 189+63 TO 191+14	1075.39 RTR II, LLC 149 FT 191+14 TO 192+63	1075.40 SAFWAT ISSA 102 FT 192+63 TO 193+65	1075.41 BEATRICE GALLOZA 200 FT 193+65 TO 195+65	1075.421, 1075.42 THE TOLENTINO FAMILY LIMITED PARTNERSHIP 431 FT 195+65 TO 199+96	1075.43 LORENE B. SHELL TRUST 575 FT 199+96 TO 205+71	1075.44 WORTHY P. STEWART 392 FT 205+71 TO 209+63	1075.45, 1075.46 DANPOL INVESTMENTS, INC. 400 FT 209+63 TO 213+63	1075.47 JEAN PARKER 202 FT 213+63 TO 215+65	SUNNY ACRES RD POLK COUNTY 25 FT 215+65 TO 215+90	1075.48 ALLEN FERRELL, JR. 175 FT 215+90 TO 217+65	1075.45, 1075.46 DANPOL INVESTMENTS, INC. 235 FT 217+65 TO 220+00	MATCHLINE 220+00

GROUND PROFILE
HORIZ: 1" = 200'
VERT: 1" = 30'



SCALE: 1" = 200'



SURVEY DATA — STATIONING

MATCHLINE 180+00: 189+70 POWER LINE; 189+71 POWER POLE LT; 189+71 GUY ANCHOR LT; 190+13 GUY ANCHOR LT; 191+17 PVC PIPE LT 25'; 191+27 FENCE CORNER; 191+28 FENCE POST RT; 191+35 UNNAMED RD; 191+45 CL AR 1492; 191+46 ROAD EDGE; 191+48 FENCE CORNER; 191+47 FENCE; 191+49 GUY ANCHOR LT; 191+50 POWER POLE LT; 191+52 POWER LINE; 191+55 POWER LINE; 191+60 GUY ANCHOR LT; 191+57 FENCE CORNER; 192+45 FENCE CORNER LT 16'; 192+48 POWER POLE RT; 193+49 POWER POLE; 194+23 ROAD EDGE; 194+25 CL AR 1435; 194+37 ROAD EDGE; 194+39 ROAD EDGE; 194+40 FENCE CORNER; 197+45 FENCE CORNER LT 25'; 197+75 ROAD EDGE; 197+44 CL AR 2258; 197+46 ROAD EDGE; 197+48 ROAD EDGE; 197+50 ROAD EDGE; 198+03 GUY ANCHOR LT; 198+03 GUY ANCHOR LT; 198+04 FENCE CORNER LT 25'; 198+13 CONC PIPE; 198+15 CONC PIPE; 198+18 WELL PUMP; 198+19 WELL PUMP; 198+20 POWER POLE RT; 198+27 OVERHEAD; 199+00 POWER LT 1'; 199+04 WATER EDGE; 199+14 WATER EDGE; 199+15 TOP OF BANK; 199+16 TOP OF BANK; 199+19 OVERHEAD; 199+21 POWER LT 1'; 199+46 TELEPHONE; 200+01 TOE OF SLOPE; 200+02 TOE OF SLOPE; 201+00 GUY ANCHOR LT 14'; 205+49 GUY ANCHOR LT 17'; 213+66 POWER LINE; 213+70 POWER POLE RT; 215+58 POWER LINE; 215+59 POWER POLE RT; 215+62 GUY ANCHOR LT; 215+63 ROAD EDGE; 215+63 MONUMENT LINE; 215+71 SUNNY ACRES RD; 215+75 CL AR 2259; 215+80 ROAD EDGE; 215+80 FENCE CORNER; 216+70 FENCE LT 21'; 217+20 POWER LINE 25'; 217+22 POWER POLE RT 12'

MATCHLINE 220+00

ENGINEERING DATA — MATERIAL

MATCHLINE 180+00: 1023'-7" CCC; (6) 1744'; (4) 80'; 776'-7" CCC; (6) 1597'; 524'-7" CCC; (4) 300'; (6) 279'; 70'-7" CCC

MATCHLINE 220+00

183+15; 190+23; 192+63; 197+44; 198+24; 199+00; 203+44; 206+76; 209+90; 209+40; 214+21; 215+39; 215+90; 217+21; 217+25; 219+30; 219+80

REFERENCE DRAWING	21040-440-PMW-00008
CLASS LOCATION	Class III
MINIMUM DEPTH OF COVER	3' / 4' / 3' / 5' / 3' / SEE REF DWG / 3'
AC MITIGATION / CATHODIC PROTECTION	

ENVIRONMENTAL DATA

WATERBODY/WETLAND CROSSINGS	W-036; W-037; W-038; W-039; W-039; W-040; W-042
WATERBODY/WETLAND LENGTH	75'; 657'; 52'; 27'; 39'; 224'; 424'; 20'
STATIONS	183+15; 183+15; 189+72; 197+44; 198+24; 199+05; 199+14; 199+75; 199+96; 199+96; 202+05; 202+05; 203+44; 203+52; 206+26; 209+40; 213+64; 214+21; 217+21; 219+80
PERMANENT EROSION CONTROL — EROSION CONTROL CODE	THIS BAND NOT UTILIZED
PERMANENT EROSION CONTROL — SLOPE BREAKER CODE	THIS BAND NOT UTILIZED
PERMANENT EROSION CONTROL — TOPSOIL SALVAGE	THIS BAND NOT UTILIZED
THREATENED AND ENDANGERED SPECIES	THIS BAND NOT UTILIZED
SPECIAL CONDITIONS — TIMING CONSTRAINT	THIS BAND NOT UTILIZED
SPECIAL CONDITIONS — CONSTRAINT 2	THIS BAND NOT UTILIZED
SPECIAL CONDITIONS — CONSTRAINT 3	THIS BAND NOT UTILIZED
SPECIAL CONDITIONS — CONSTRAINT 4	THIS BAND NOT UTILIZED

MATCHLINE 180+00 — MATCHLINE 220+00

BILL OF MATERIALS

ITEM NO.	QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
4	380	FT			36" O.D. x 0.750" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE & 24-30 MILS ARO
6	3620	FT			36" O.D. x 0.750" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE

FITTINGS SUMMARY

ITEM NO.	QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION

PIPE ASSEMBLIES

QTY	UOM	DESCRIPTION

MISCELLANEOUS MATERIALS

QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
0	EA			SET ON WEIGHTS
5	EA			PIPELINE MARKERS
3	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

CONTINUOUS CONCRETE COATING

QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
2393	FT			7" OF CONTINUOUS CONCRETE COATING (140 PCF DENSITY CONCRETE)

PIPE COATING DATA

PIPE COATING: 14 MIL MINIMUM FBE AND 24 MIL MINIMUM ARO
GIRTH WELD COATING: 2 PART EPOXY
INTERNAL COATING (YES/NO): NO

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 21040-510-TYP-20029	TYPICAL OPEN CUT / BORE
21040-510-TYP-20112	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

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.

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.

LEGEND

HDD PIPE; BORE PIPE; LINE PIPE; IN AND OUT; INDUCTION BEND; TRANSITION PIPE; CONT. CONC. COAT; SET-ON WEIGHTS; WARNING SIGN; MATERIAL ITEM; AERIAL MARKER; CP TEST STATION; BV MOV / BV & CV; PIPELINE MARKER; PIPELINE MILEPOST; ANODE BED DEEP WELL; PIPELINE ROUTE; FENCE; POWER LINE; TELEPHONE LINE; WATERLINE; SEWER LINE; BURIED CABLE; UTILITY LINE; GENERAL SURVEY; FOREIGN PIPELINE; RAILROAD; HIGHWAY / ROAD; PRIVATE ACCESS / SHORELY ROAD; COUNTY BOUNDARY; ROW PARCEL; 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; ROOKERY; ROOKERY 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	APP 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

	APPROVAL	COMPANY
ENVIRONMENTAL		
LAND		

0 100 200 400 600 800

1 INCH = 200 FT

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: 180+00 TO 220+00 — DISCIPLINE#: 03

FLORIDA SOUTHEAST CONNECTION ALIGNMENT SHEET POLK COUNTY, FLORIDA

SCALE: 1" = 200' — 21040-510-ALS-00005 — REV. 1

SHEET 5