TRACT

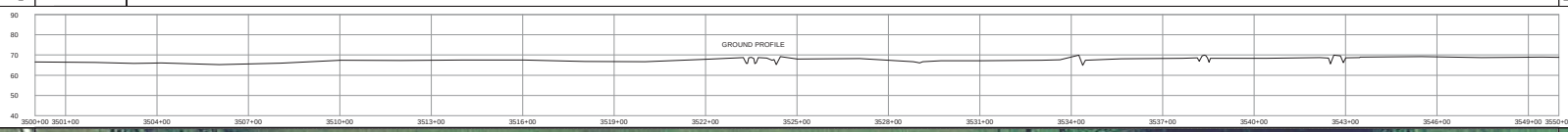
MATCHLINE 3500+00

2032.1
FD DESTINY CREDIT, LLC
62 FT
3500+00 TO 3500+62

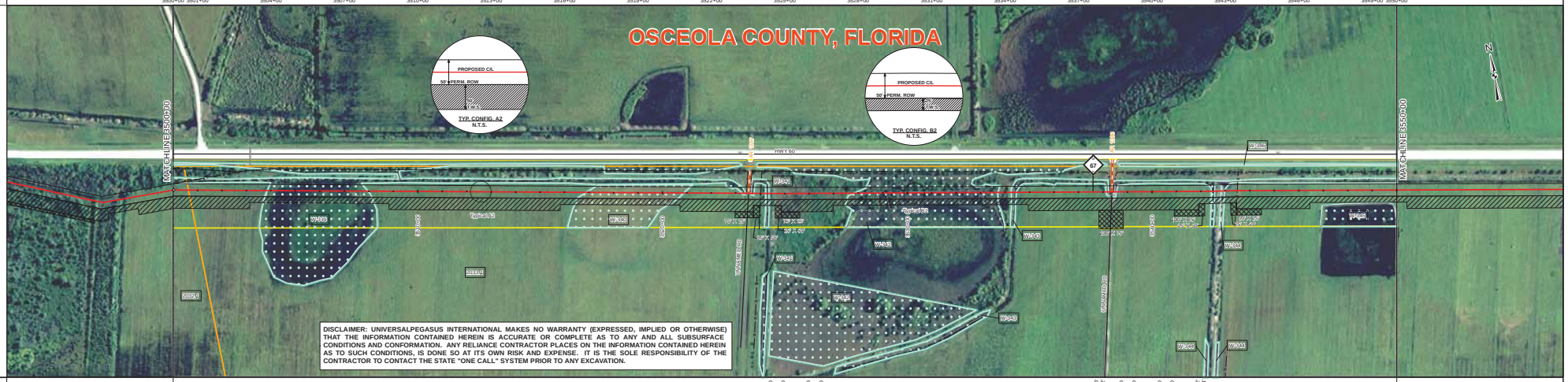
2033.1
FD DESTINY CREDIT, LLC
4938 FT
3500+62 TO 3550+00

MATCHLINE 3550+00

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



SCALE: 1" = 200'



SURVEY DATA

STATIONING

MATCHLINE 3500+00

3500+00 PI 10°02'34.1"

3523+27 TOP OF BANK
3523+34 TOE OF SLOPE
3523+35 TOP OF BANK
3523+37 CULVERT LT 12"
3523+42 TOP OF BANK
3523+45 TOP OF BANK
3523+45 CATTLE GUARD
LT 12"
3523+49 UNNAMED RD
3523+52 CLAR 1387
3523+56 CATTLE GUARD
LT 6"
3523+57 CATTLE GUARD
LT 12"
3523+59 TOP OF BANK
3523+61 CULVERT LT 3"
3523+62 CULVERT LT 3"
3523+66 TOE OF SLOPE
3523+67 TOP OF BANK
3524+01 FENCE
3524+02 TOP OF BANK
3524+32 TOE OF SLOPE
3524+33 TOP OF BANK
3528+85 WATER EDGE
3529+14 WATER EDGE
3529+46 WATER EDGE
3533+05 WATER EDGE
3534+25 TOP OF BANK
3534+26 TOE OF SLOPE
3534+47 TOP OF BANK
3538+14 TOP OF BANK
3538+24 TOE OF SLOPE
3538+25 CULVERT RT 10"
3538+26 CULVERT RT 12"
3538+26 TOP OF BANK
3538+27 TOE OF SLOPE
3538+30 CATTLE GUARD
LT 6"
3538+36 CLAR 1388
3538+36 UNNAMED RD
3538+42 CATTLE GUARD
RT 6"
3538+42 FENCE
3538+47 TOP OF BANK
3538+49 CULVERT RT 12"
3538+51 TOP OF BANK
3538+52 TOE OF SLOPE
3538+57 TOP OF BANK
3541+50 TOE OF SLOPE
3541+51 TOE OF SLOPE
3542+61 TOP OF BANK
3542+63 TOP OF BANK
3542+83 TOP OF BANK
3542+84 TOE OF SLOPE
3543+01 TOP OF BANK
3543+48 FENCE

MATCHLINE 3550+00

ENGINEERING DATA

MATERIAL

MATCHLINE 3500+00

50-9K# SBW
10.5 CC

49-9K# SBW
10.5 CC

22-9K# SBW
10.5 CC

1
5000'

74-9K# SBW
10.5 CC

15-9K# SBW
10.5 CC

16-9K# SBW
10.5 CC

3500+02
3503+92
3507+96
3508+46
3516+34
3516+35
3516+69
3521+99
3522+69
3524+90
3527+33
3527+84
3533+70
3534+99
3537+01
3538+29
3538+42
3539+08
3541+91
3543+18
3543+48

MATCHLINE 3550+00

REFERENCE DRAWING	
CLASS LOCATION	Class I
MINIMUM DEPTH OF COVER	3' 4' 3' 5' 3' 4' 3' 5' 3'
AC MITIGATION / CATHODIC PROTECTION	

ENVIRONMENTAL DATA

MATCHLINE 3500+00

WATERBODY/WETLAND CROSSINGS		W-320 W-340 W-341 W-343 W-342 W-344 W-345 W-346 W-347
WATERBODY/WETLAND LENGTH		420 999 15 5 3 22 750 5 37 5 21 22
STATIONS		3503+85 3507+96 3516+68 3520+67 3523+24 3523+37 3523+46 3523+47 3524+15 3524+21 3524+26 3527+84 3533+70 3534+15 3534+45 3534+46 3534+96 3538+13 3538+22 3538+23 3538+42 3538+55 3542+29 3542+42 3542+47 3542+57 3542+82 3543+07 3543+07
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

MATCHLINE 3550+00

BILL OF MATERIALS

ITEM NO.	QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
1	5000	FT			36" O.D. x 0.520" W.T., API 5L, X70, PSL2, DSAW, 14-16 MLS FBE

MISCELLANEOUS MATERIALS

QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
226	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

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
36 IND RT
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 / SHORLY 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
ROADWAY
ROADWAY 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: 3500+00 TO 3550+00 | DISCIPLINE#: 03

FLORIDA SOUTHEAST CONNECTION
ALIGNMENT SHEET
OSCEOLA COUNTY, FLORIDA

SCALE: 1" = 200' | 21040-510-ALS-00075 | REV. 1

FITTINGS SUMMARY

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

PIPE ASSEMBLIES

QTY	UOM	DESCRIPTION

CONTINUOUS CONCRETE COATING

QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION

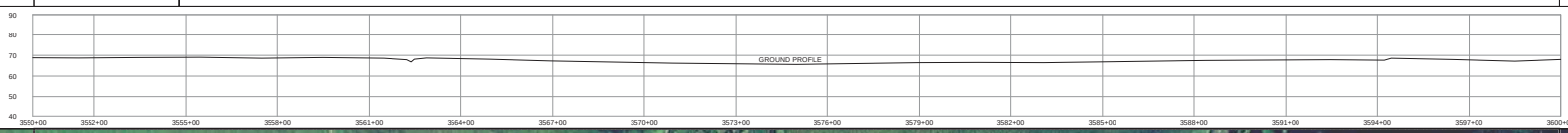
PIPE COATING DATA

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

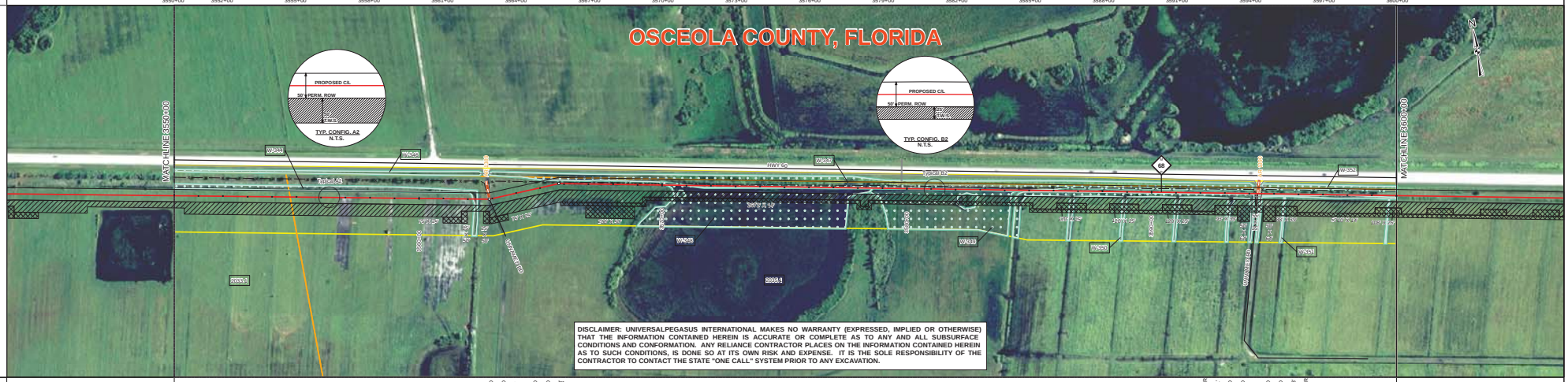
TRACT	2033.1 FD DESTINY CREDIT, LLC 473 FT 3550+00 TO 3554+73	2035.1 FD DESTINY CREDIT, LLC 4527 FT 3554+73 TO 3600+00

MATCHLINE 3550+00 — MATCHLINE 3600+00

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



SCALE: 1" = 200'



SURVEY DATA — STATIONING

MATCHLINE 3550+00

3562+23 TOP OF BANK
3562+37 TOE OF SLOPE
3562+48 TOP OF BANK
3562+78 CATTLE GUARD
3562+78 LT 24"
3562+87 ELEC. POLE
3562+87 LT 17" 30' LT
3562+87 UNNAMED RD
3562+94 CATTLE GUARD
3562+94 LT 24"
3565+78 ELEC. POLE 49' RT

3594+21 FENCE CORNER LT 17
3594+21 CULVERT RT 11'
3594+22 FENCE
3594+26 CATTLE GUARD
3594+26 LT 24"
3594+35 CL AR 1390
3594+35 UNNAMED RD
3594+35 ATLTS 1390 RD
3594+40 FENCE CORNER RT 60'
3594+49 CULVERT RT 13'
3594+49 FENCE
3594+52 FENCE CORNER LT 18

MATCHLINE 3600+00

ENGINEERING DATA — MATERIAL

MATCHLINE 3550+00

13-9Kº SBW
10.5 CC

1
5000'

151-9Kº SBW
10.5 CC

12-9Kº SBW
10.5 CC

3553+49
3561+66
3562+88
3562+92
3562+96
3565+78
3569+49
3570+21
3574+89
3584+91
3585+44
3594+22
3594+49
3597+00
3597+61
3598+16

MATCHLINE 3600+00

REFERENCE DRAWING	
CLASS LOCATION	Class I
MINIMUM DEPTH OF COVER	3' | 4' | 3' | 4'
AC MITIGATION / CATHODIC PROTECTION	
WATERBODY/WETLAND CROSSINGS	W-340 | W-341 | W-342 | W-343 | W-344 | W-345 | W-346 | W-347 | W-348 | W-349 | W-350 | W-351 | W-352
WATERBODY/WETLAND LENGTH	87 | 84 | 87 | 84 | 152 | 152 | 87 | 84 | 152 | 152 | 87 | 84 | 87
STATIONS	3562+15, 3562+20, 3562+88, 3562+97, 3570+21, 3571+03, 3571+03, 3579+47, 3579+47, 3580+98, 3580+98, 3583+45, 3584+91, 3597+61, 3597+65
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	
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 3550+00 — MATCHLINE 3600+00

BILL OF MATERIALS

ITEM NO.	QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
1	5000	FT			36" O.D. x 0.520" W.T., API 5L, X70, PSL2, DSAW, 14-16 MLS FBE

MISCELLANEOUS MATERIALS

QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
176	EA			SET ON WEIGHTS
6	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

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 RAD RT
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 / SHORLY 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
ROADWY
ROADWY 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: 3550+00 TO 3600+00 — DISCIPLINE#: 03

FLORIDA SOUTHEAST CONNECTION
ALIGNMENT SHEET
OSCEOLA COUNTY, FLORIDA

SCALE: 1" = 200' — 21040-510-ALS-00076 — REV. 1

FITTINGS SUMMARY

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

PIPE ASSEMBLIES

QTY	UOM	DESCRIPTION

CONTINUOUS CONCRETE COATING

QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION

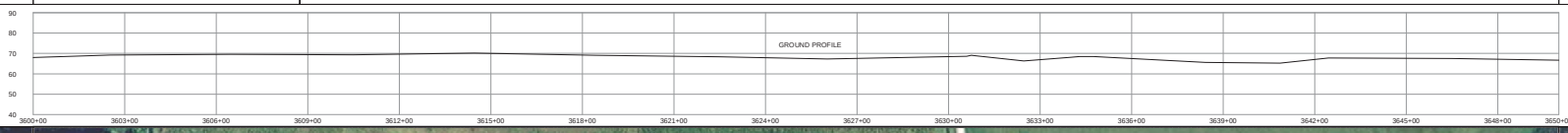
PIPE COATING DATA

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

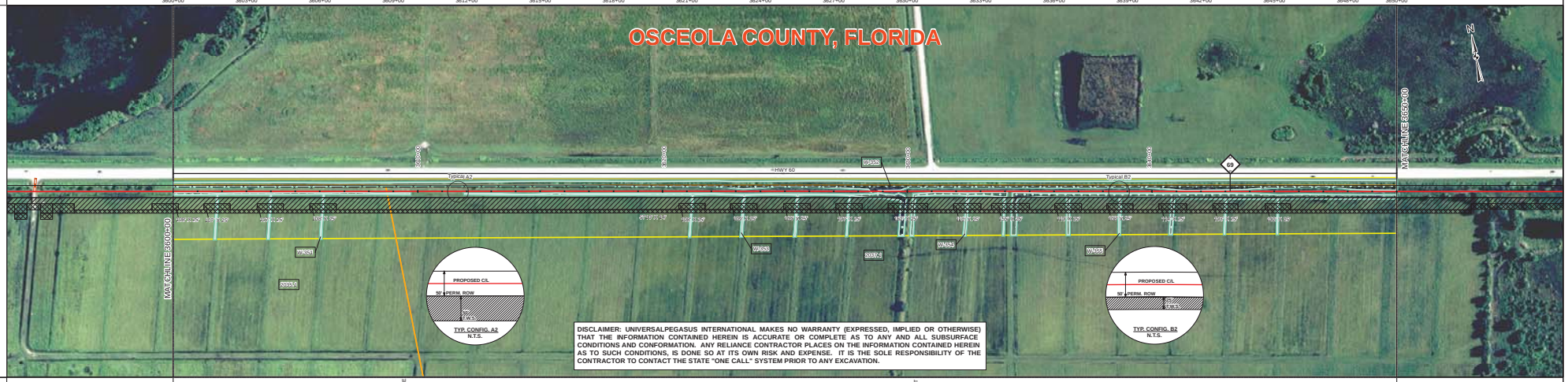
SHEET 76

TRACT	2035.1 FD DESTINY CREDIT, LLC 873 FT 3600+00 TO 3608+73	2037.1 FD DESTINY CREDIT, LLC 4127 FT 3608+73 TO 3650+00

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



SCALE: 1" = 200'



SURVEY DATA — STATIONING

MATCHLINE 3600+00: 3609+48 STANDING IRRIGATION PIPE RT 25'; 3630+72 POWER POLE LT 23'; 3630+75 GUY ANCHOR RT 17'; 3643+58 MONUMENT LT 20'; MATCHLINE 3650+00

ENGINEERING DATA — MATERIAL

5000'; 14-9K# SBW 10.5 CC; 3615+66; 3617+94; 3627+94; 3629+34; 3637+94; 3647+94

REFERENCE DRAWING	
CLASS LOCATION	Class I
MINIMUM DEPTH OF COVER	4'
AC MITIGATION / CATHODIC PROTECTION	

ENVIRONMENTAL DATA

WATERBODY/WETLAND CROSSINGS		
WATERBODY/WETLAND LENGTH		
STATIONS		3629+48; 3629+61
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
1	5000	FT			36" O.D. x 0.520" W.T., API 5L, X70, PSL2, DSAW, 14-16 MLS FBE

MISCELLANEOUS MATERIALS

QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
14	EA			SET ON WEIGHTS
5	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

FITTINGS SUMMARY

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

PIPE ASSEMBLIES

QTY	UOM	DESCRIPTION

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.
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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; 36 RAD RT; 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 / SHORLY 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; ROADWAY; ROADWAY 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: 3600+00 TO 3650+00 — DISCIPLINE#: 03

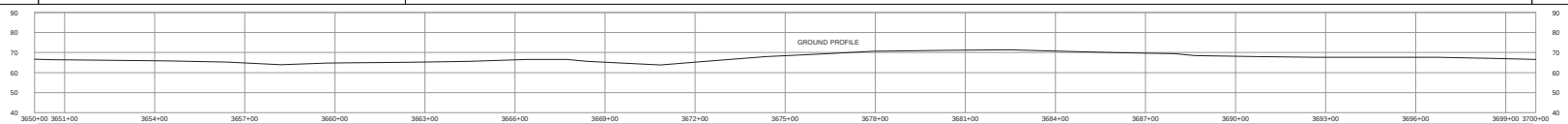
FLORIDA SOUTHEAST CONNECTION ALIGNMENT SHEET OSCEOLA COUNTY, FLORIDA

SCALE: 1" = 200' — 21040-510-ALS-00077 — REV. 1

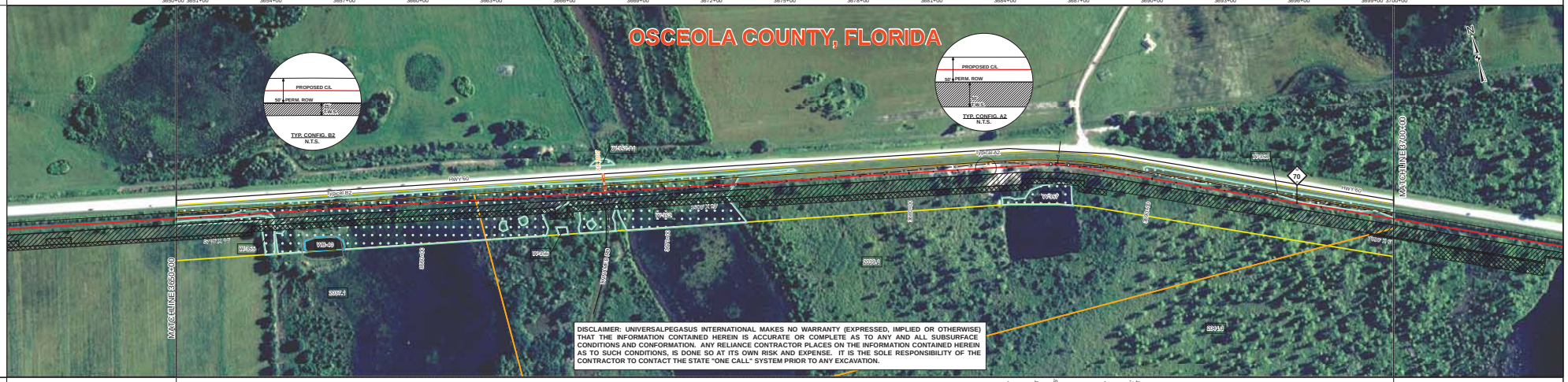
SHEET 77

TRACT	MATCHLINE 3650+00	2037.1 FD DESTINY CREDIT, LLC 1225 FT 3650+00 TO 3662+25	2039.1 FD DESTINY CREDIT, LLC 3775 FT 3662+25 TO 3700+00	MATCHLINE 3700+00

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



SCALE: 1" = 200'



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SURVEY DATA — STATIONING

MATCHLINE 3650+00

3654+39 MONUMENT LT 24'
3660+51 FIBER
3667+56 CLAR 2307
3675+57 FENCE
3684+11 IRON PIPE LT 24'
3685+59 FENCE
3685+81 PL 2041/2 LT
3686+07 2" GALVANIZED LT
3686+08 WOODEN GUARD
3686+09 POWER LINE
3686+09 TELEPHONE LT 6'
3686+54 FT
3686+54 FT
3686+54 FT
3686+60 FENCE
3687+30 CONCRETE GUARD
3688+27 IRON PIPE LT 24'
3688+40 WOODEN GUARD
3688+40 TELEPHONE LT 22'
3688+40 FIBER STAL LT 22'
3688+51 GUY ANCHOR LT 27'

MATCHLINE 3700+00

ENGINEERING DATA — MATERIAL

MATCHLINE 3650+00

2008'-7" CCC
5000'
32'-7" CCC
3653+31
3653+61
3660+51
3670+51
3673+39
3675+57
3675+00
3685+81
3686+54
3695+66
3696+66
3699+68

MATCHLINE 3700+00

REFERENCE DRAWING	
CLASS LOCATION	Class I
MINIMUM DEPTH OF COVER	4' / 3' / 4' / 3'
AC MITIGATION / CATHODIC PROTECTION	

ENVIRONMENTAL DATA

MATCHLINE 3650+00

WATERBODY/WETLAND CROSSINGS	
WATERBODY/WETLAND LENGTH	1225' / 1955'
STATIONS	3653+61 3653+61 3672+69 3672+69 3675+34
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	
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 3700+00

BILL OF MATERIALS

ITEM NO.	QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
1	5000	FT			36" O.D. x 0.520" W.T., API 5L, X70, PSL2, DSAW, 14-16 MLS FBE

MISCELLANEOUS MATERIALS

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

FITTINGS SUMMARY

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

CONTINUOUS CONCRETE COATING

QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
2040	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

PIPE ASSEMBLIES

QTY	UOM	DESCRIPTION

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
36 IKO 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 / SHOSLY 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
ROONERY
ROONERY 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: 3650+00 TO 3700+00 — DISCIPLINE#: 03

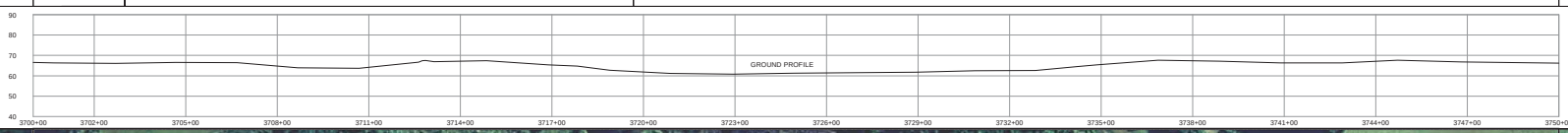
FLORIDA SOUTHEAST CONNECTION ALIGNMENT SHEET OSCEOLA COUNTY, FLORIDA

SCALE: 1" = 200' — 21040-510-ALS-00078 — REV. 1

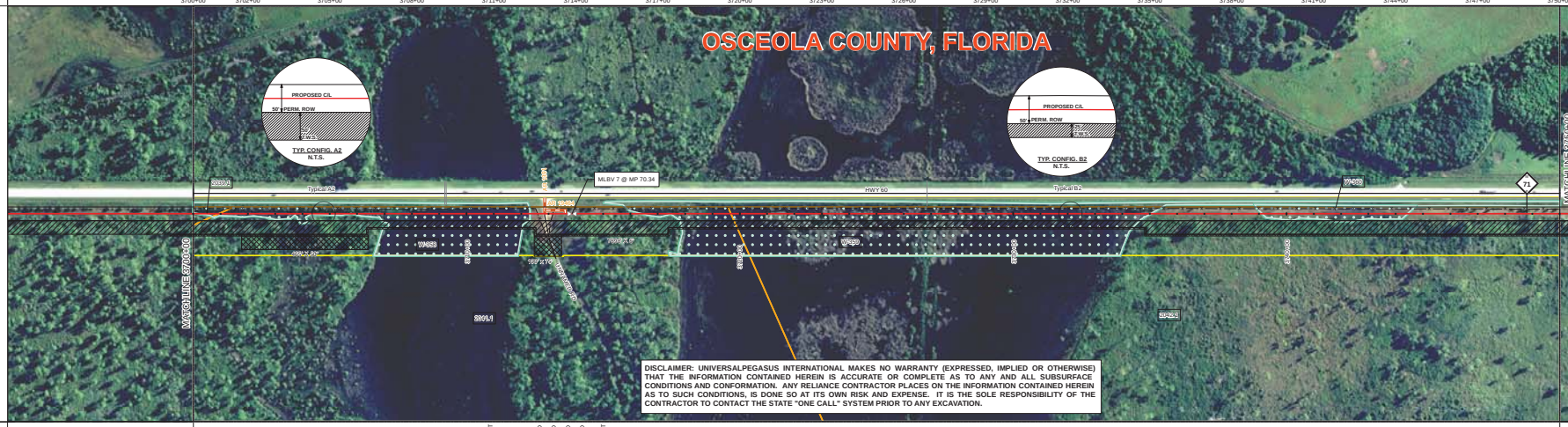
TRACT	2039.1 FD DESTINY CREDIT, LLC 93 FT 3700+00 TO 3700+93	2041.1 FD DESTINY CREDIT, LLC 1874 FT 3700+93 TO 3719+67	2042.1 FD DESTINY CREDIT, LLC 3033 FT 3719+67 TO 3750+00

MATCHLINE 3700+00 — MATCHLINE 3750+00

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



SCALE: 1" = 200'



SURVEY DATA — STATIONING

MATCHLINE 3700+00

3707+65 IRON PIPE LT 24"
3712+52 FENCE POST LT 23'
3712+60 FENCE
3712+75 MONUMENT LT 23'
3712+86 UNNAMED RD
3712+88 CATTLE GUARD
3712+89 RT 60 CATTLE GUARD
3712+98 RT 60
3712+99 RT 60 CATTLE GUARD
3713+00 CATTLE GUARD
3713+15 FENCE
3713+15 FENCE POST LT 19'
3713+41 GUY & MH64
3713+86 MLBV 7
3734+05 IRON PIPE LT 24"
3747+60 PEDESTAL LT 23'

MATCHLINE 3750+00

ENGINEERING DATA — MATERIAL

MATCHLINE 3700+00

1281'-7" CCC
1351'
6 20'
6 20'
30'
1962'-7" CCC
3579'
62-9K# SBW
10.5 CC

3700+19
3709+91
3712+40
3712+50
3713+15
3713+41
3713+71
3713+86
3714+21
3715+91
3722+91
3732+91
3735+53
3738+41
3742+91
3745+02

MATCHLINE 3750+00

REFERENCE DRAWING	21040-505-MVW-00010
CLASS LOCATION	Class I
MINIMUM DEPTH OF COVER	3' / 4' / 3'
AC MITIGATION / CATHODIC PROTECTION	

ENVIRONMENTAL DATA

MATCHLINE 3700+00

WATERBODY/WETLAND CROSSINGS		W 2532 / W 2531 / W 2530 / W 2529
WATERBODY/WETLAND LENGTH		50' / 149' / 286' / 50'
STATIONS		3700+19 / 3705+70 / 3705+93 / 3712+31 / 3712+75 / 3713+08 / 3716+42 / 3735+03 / 3739+11 / 3744+43
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		THIS BAND NOT UTILIZED
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

MATCHLINE 3750+00

BILL OF MATERIALS

ITEM NO.	QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
1	4930	FT			36" O.D. x 0.520" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE
2	40	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
1	EA	MLBV 7 (30')

MISCELLANEOUS MATERIALS

QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
62	EA			SET ON WEIGHTS
5	EA			PIPELINE MARKERS
2	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
3243	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.
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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
36 IKO RT
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 / SHOCKLY 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
ROADWAY
ROADWAY 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: 3700+00 TO 3750+00 — DISCIPLINE#: 03

FLORIDA SOUTHEAST CONNECTION
ALIGNMENT SHEET
OSCEOLA COUNTY, FLORIDA

SCALE: 1" = 200' — 21040-510-ALS-00079 — REV. 1