


Date:	8/18 - 10/21/2021	Test Hole Data Report				Crew Members:	PK,DP,BH,DS,RR,AW,JB,MG
ECHO Project #:	21-296	4803 George Road, Ste. 350 Tampa, Florida 33634 400 SR 434, Ste. 1024 Oviedo, Florida 32765	 ECHO UTILITY ENGINEERING & SURVEY	ECHO UES, Inc. www.echoues.com 888.778.ECHO - GROW, INSPIRE, MAKE A DIFFERENCE -	City, State:	Bradenton, FL	
Financial Project #:	N/A				General Location:	27th Street	
Truck No.:	VT-1 & D3-TU2				Coordinate Unit of Measure:	US Survey Feet	

Utility Type		Utility Material				Identified By:		Abbreviations		Offset Measured From:					
BE = Buried Electrical	RCW = Reclaimed Water	AC = Transite	GALV = Galvanized Pipe		HUB = Survey Hub		N/A = Not Applicable		EP= Edge of Pavement						
GM = Gas Main	TS = Traffic Signal	CI= Cast Iron	HDPE = High Density Polyethylene Pipe		IRC = Iron Rod & Cap "ECHO TEST HOLE"		NAD = North American Datum		BC = Back of Curb						
BT = Buried Telephone	SL = Street Light	CP = Concrete Pipe	PE = Polyethylene Pipe		NL = Nail & Disk "ECHO TEST HOLE"		NAVD = North American Vertical Datum		BL = Baseline of Survey						
FOC = Fiber Optic Cable	GW = Ground Wire	DBC = Direct Buried Cable	PVC = Polyvinyl Chloride		SLEEVE = Sleeve		X = "X" in Concrete		COORD = Survey Coordinates						
WM = Water Main	GS = Gas Service	CMP = Corrugated Metal Pipe	STL = Steel		Surface Type		UNK = Unknown		HUB = Survey Hub						
SAN = Sanitary Sewer	WS = Water Service	CONC = Concrete	VCP = Vitrified Clay Pipe				ASPH = Asphalt		RW = Right of Way						
STM = Storm Sewer	UNK = Unknown Utility	CPP = Corrugated Plastic Pipe	PCCP = Prestressed Cylinder Concrete Pipe		CONC = Concrete		ST = Swing Ties		X = "X" in Concrete						
CATV = Cable Television	BED = Buried Electrical Duct	DCT = Duct	RCP = Reinforced Concrete Pipe		NG = Natural Ground										
FM = Force Main	BTD = Buried Telephone Duct	DIP = Ductile Iron Pipe													
Test Hole	Utility Type	Utility Material	Utility Size Outside Diameter inches	Utility Manual Depth feet	Cross Sectional View	 Utility Direction	Identified By	Surface Type	Surface Thickness inches	Apparent Utility Owner	Datums:		Ground Elevation	Utility Elevation	
											Horizontal: NAD83/11	Vertical: NAVD88			
												Northing	Easting		

CONFLICT LOCATIONS


1-1	WM	PVC	6"	4.36'	○	↔	IRC	NG	N/A	MANATEE COUNTY	1139385.61'	484326.49'	19.36'	15.00'
1-2	BT	DBC	1"	2.52'	•	↔	IRC	NG	N/A	FRONTIER	1139386.83'	484324.99'	19.35'	16.83'
2-1	WM	PVC	6"	4.36'	○	↔	IRC	NG	N/A	MANATEE COUNTY	1139385.10'	484298.01'	20.25'	15.89'
2-2	BT	DBC	1"	1.92'	•	↔	IRC	NG	N/A	FRONTIER	1139386.55'	484300.70'	20.12'	18.20'
3-1	WM	DIP	20"	4.28'	○	↑↓	NL	ASPH	4"	MANATEE COUNTY	1139392.36'	484250.04'	21.83'	17.55'
4-1	WM	DIP	20"	3.78'	○	↑↓	NL	ASPH	4"	MANATEE COUNTY	1139919.51'	484252.62'	17.41'	13.63'
4-2	FOC	PVC	4"	2.32'	○	↑↓	IRC	NG	N/A	UNITI FIBER	1139922.16'	484258.71'	17.31'	14.99'
5-1	FOC	PVC	4"	2.56'	○	↑↓	IRC	NG	N/A	UNITI FIBER	1139954.56'	484259.43'	17.13'	14.57'
6-1	WM	DIP	18"	6.30'	○	↑↓	NL	ASPH	4"	CITY OF BRADENTON	1140190.89'	484236.15'	15.81'	9.51'

Notes:

Prepared by: CM **Date:** 10/22/2021

Checked by: MA **Date:** 10/22/2021

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Financial Project #:	N/A				General Location:	27th Street	
Truck No.:	VT-1 & D3-TU2				Coordinate Unit of Measure:	US Survey Feet	

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GM = Gas Main	TS = Traffic Signal	CI= Cast Iron	HDPE = High Density Polyethylene Pipe		IRC = Iron Rod & Cap "ECHO TEST HOLE"		NAD = North American Datum		BC = Back of Curb						
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WM = Water Main	GS = Gas Service	CMP = Corrugated Metal Pipe	STL = Steel		X = "X" in Concrete		Vertical Datum		CL = Centerline						
SAN = Sanitary Sewer	WS = Water Service	CONC = Concrete	VCP = Vitrified Clay Pipe		Surface Type		UNK = Unknown		HUB = Survey Hub						
STM = Storm Sewer	UNK = Unknown Utility	CPP = Corrugated Plastic Pipe	PCCP = Prestressed Cylinder Concrete Pipe		ASPH = Asphalt				RW = Right of Way						
CATV = Cable Television	BED = Buried Electrical Duct	DCT = Duct			CONC = Concrete				ST = Swing Ties						
FM = Force Main	BTD = Buried Telephone Duct	DIP = Ductile Iron Pipe	RCP = Reinforced Concrete Pipe		NG = Natural Ground				X = "X" in Concrete						
Test Hole	Utility Type	Utility Material	Utility Size Outside Diameter inches	Utility Manual Depth feet	Cross Sectional View	 Utility Direction	Identified By	Surface Type	Surface Thickness inches	Apparent Utility Owner	Datums:		Ground Elevation	Utility Elevation	
											Horizontal: NAD83/11	Vertical: NAVD88			
												Northing	Easting		


CONFLICT LOCATIONS (CONT.)

Test Hole	Utility Type	Utility Material	Utility Size	Utility Manual Depth	Cross Sectional View	Utility Direction	Identified By	Surface Type	Surface Thickness	Apparent Utility Owner	Northing	Easting	Ground Elevation	Utility Elevation
7-1	WM	PVC	6"	4.64'	○	↔	NL	ASPH	4"	MANATEE COUNTY	1140189.67'	484237.02'	15.85'	11.21'
8-1	WM	DIP	20"	6.76'	○	↕	NL	ASPH	4"	MANATEE COUNTY	1140191.18'	484251.11'	15.84'	9.08'
9-1	BT	PVC	4"	3.34'	○	↕	IRC	NG	N/A	MCI	1140785.13'	484234.97'	15.03'	11.69'
9-2	FOC	PE	1.5"	2.86'	◦	↕	IRC	NG	N/A	MCI	1140785.46'	484232.23'	15.24'	12.38'
9-3	FOC	PE	1.5"	3.28'	◦	↕	IRC	NG	N/A	MCI	1140789.59'	484221.59'	14.89'	11.61'
10-1	WM	DIP	6"	5.12'	○	↔	NL	ASPH	4"	MANATEE COUNTY	1140788.14'	484240.46'	15.19'	10.07'
10-2	WM	DIP	18"	3.40'	○	↕	NL	ASPH	4"	CITY OF BRADENTON	1140789.11'	484239.22'	15.15'	11.75'
11-1	WM	DIP	20"	4.63'	○	↕	NL	ASPH	4"	MANATEE COUNTY	1140794.48'	484257.41'	15.23'	10.60'
11-2	FOC	PVC	4"	2.92'	○	↕	IRC	NG	N/A	UNITI FIBER	1140798.91'	484265.56'	14.72'	11.80'









Notes: TH# 10-1 - POSSIBLE 6" DIP; UNABLE TO VISUALLY VERIFY DUE TO WATER AND CAVE IN

	Prepared by: CM Date: 10/22/2021
	Checked by: MA Date: 10/22/2021

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Financial Project #:	N/A				General Location:	27th Street	
Truck No.:	VT-1 & D3-TU2				Coordinate Unit of Measure:	US Survey Feet	

Utility Type		Utility Material			Identified By:		Abbreviations		Offset Measured From:					
BE = Buried Electrical	RCW = Reclaimed Water	AC = Transit	GALV = Galvanized Pipe		HUB = Survey Hub		N/A = Not Applicable		EP= Edge of Pavement					
GM = Gas Main	TS = Traffic Signal	CI = Cast Iron	HDPE = High Density Polyethylene Pipe		IRC = Iron Rod & Cap "ECHO TEST HOLE"		NAD = North American Datum		BC = Back of Curb					
BT = Buried Telephone	SL = Street Light	CP = Concrete Pipe	PE = Polyethylene Pipe		NL = Nail & Disk "ECHO TEST HOLE"		Datum		BL = Baseline of Survey					
FOC = Fiber Optic Cable	GW = Ground Wire	DBC = Direct Buried Cable	PVC = Polyvinyl Chloride		SLEEVE = Sleeve		NAVD = North American Vertical Datum		COORD = Survey Coordinates					
WM = Water Main	GS = Gas Service	CMP = Corrugated Metal Pipe	STL = Steel		X = "X" in Concrete		Vertical Datum		CL = Centerline					
SAN = Sanitary Sewer	WS = Water Service	CONC = Concrete	VCP = Vitrified Clay Pipe		Surface Type		UNK = Unknown		HUB = Survey Hub					
STM = Storm Sewer	UNK = Unknown Utility	CPP = Corrugated Plastic Pipe	PCCP = Prestressed Cylinder Concrete Pipe		ASPH = Asphalt				RW = Right of Way					
CATV = Cable Television	BED = Buried Electrical Duct	DCT = Duct			CONC = Concrete				ST = Swing Ties					
FM = Force Main	BTD = Buried Telephone Duct	DIP = Ductile Iron Pipe	RCP = Reinforced Concrete Pipe		NG = Natural Ground				X = "X" in Concrete					
Test Hole	Utility Type	Utility Material	Utility Size Outside Diameter inches	Utility Manual Depth feet	Cross Sectional View	 Utility Direction	Identified By	Surface Type	Surface Thickness inches	Apparent Utility Owner	Datums:		Ground Elevation	Utility Elevation
											Horizontal:	Vertical:		
											NAD83/11	NAVD88		
											Northing	Easting		


CONFLICT LOCATIONS (CONT.)

12-1	WM	DIP	20"	3.90'		↕	NL	ASPH	4"	MANATEE COUNTY	1141328.50'	484260.49'	14.47'	10.57'	
13-1	WM	PVC	6"	4.74'		↔	NL	ASPH	4"	MANATEE COUNTY	1141370.27'	484246.98'	14.35'	9.61'	
13-2	WM	DIP	18"	5.46'		↕	NL	ASPH	4"	CITY OF BRADENTON	1141369.21'	484245.36'	14.27'	8.81'	
15-1	WM	CI	20"	6.14'		↔	NL	ASPH	4"	MANATEE COUNTY	1141500.32'	484130.53'	14.02'	7.88'	
16-1	FOC	PE	2"	6.94'		↔	X	CONC	4"	FRONTIER	1141506.96'	484132.77'	13.71'	6.77'	
17-1	WM/FOC	CI/PE	18"	5.74'		↔	X	CONC	4"	CITY OF BRADENTON	1141508.67'	484132.75'	13.68'	7.94'	
18-1	BE	PVC	6"	4.26'		↔	IRC	NG	N/A	FPL	1141523.23'	484142.95'	11.78'	7.52'	
19-1	WM	PVC	6"	3.26'		↔	IRC	NG	N/A	MANATEE COUNTY	1141516.98'	484156.15'	11.81'	8.55'	
20-1	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 10'							NL	ASPH	3"	N/A	1141481.66'	484202.20'	13.64'	N/A








Notes: TH# 16-1 - POSSIBLE 2" PE; UNABLE TO VISUALLY VERIFY DUE TO WATER AND CAVE IN

											Prepared by: CM	Date: 10/22/2021
											Checked by: MA	Date: 10/22/2021

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Financial Project #:	N/A				General Location:	27th Street	
Truck No.:	VT-1 & D3-TU2				Coordinate Unit of Measure:	US Survey Feet	

Utility Type		Utility Material				Identified By:		Abbreviations		Offset Measured From:				
BE = Buried Electrical	RCW = Reclaimed Water	AC = Transit	GALV = Galvanized Pipe		HUB = Survey Hub		N/A = Not Applicable		EP= Edge of Pavement					
GM = Gas Main	TS = Traffic Signal	CI= Cast Iron	HDPE = High Density Polyethylene Pipe		IRC = Iron Rod & Cap "ECHO TEST HOLE"		NAD = North American Datum		BC = Back of Curb					
BT = Buried Telephone	SL = Street Light	CP = Concrete Pipe	PE = Polyethylene Pipe		NL = Nail & Disk "ECHO TEST HOLE"		Datum		BL = Baseline of Survey					
FOC = Fiber Optic Cable	GW = Ground Wire	DBC = Direct Buried Cable	PVC = Polyvinyl Chloride		SLEEVE = Sleeve		NAVD = North American Vertical Datum		COORD = Survey Coordinates					
WM = Water Main	GS = Gas Service	CMP = Corrugated Metal Pipe	STL = Steel		X = "X" in Concrete		Vertical Datum		CL = Centerline					
SAN = Sanitary Sewer	WS = Water Service	CONC = Concrete	VCP = Vitrified Clay Pipe		Surface Type		UNK = Unknown		HUB = Survey Hub					
STM = Storm Sewer	UNK = Unknown Utility	CPP = Corrugated Plastic Pipe	PCCP = Prestressed Cylinder Concrete Pipe		ASPH = Asphalt				RW = Right of Way					
CATV = Cable Television	BED = Buried Electrical Duct	DCT = Duct			CONC = Concrete				ST = Swing Ties					
FM = Force Main	BTD = Buried Telephone Duct	DIP = Ductile Iron Pipe	RCP = Reinforced Concrete Pipe		NG = Natural Ground				X = "X" in Concrete					
Test Hole	Utility Type	Utility Material	Utility Size Outside Diameter inches	Utility Manual Depth feet	Cross Sectional View	 Utility Direction	Identified By	Surface Type	Surface Thickness inches	Apparent Utility Owner	Datums:		Ground Elevation	Utility Elevation
											Horizontal: NAD83/11	Vertical: NAVD88		
											Northing	Easting		


CONFLICT LOCATIONS (CONT.)

21-1	WM	DIP	20"	6.00'		↔	NL	ASPH	6"	MANATEE COUNTY	1141498.84'	484213.39'	13.47'	7.47'
23-1	WM	PVC	6"	6.00'		↔	IRC	NG	N/A	MANATEE COUNTY	1141517.26'	484213.64'	12.82'	6.82'
24-1	FOC	PVC	4"	5.04'		↕	NL	ASPH	6"	FRONTIER	1141528.43'	484238.38'	13.42'	8.38'
24-2	BT	PE	3-1.5"	2.36'		↕	NL	ASPH	6"	FRONTIER	1141528.45'	484239.45'	13.43'	11.07'
25-1	FOC	PE	2"	3.58'		↔	IRC	NG	N/A	UNITI FIBER	1141513.77'	484269.54'	13.33'	9.75'
25-2	BE	PVC	2-4"	4.98'		↔	IRC	NG	N/A	FPL	1141517.82'	484266.84'	13.37'	8.39'
27-1	WM	PVC	8"	2.50'		↕	IRC	NG	N/A	MANATEE COUNTY	1141649.16'	484235.09'	12.39'	9.89'
28-1	BT	DBC	1"	2.50'		↕	IRC	NG	N/A	MCI	1141647.92'	484237.39'	12.74'	10.24'
29-1	FM	PVC	6"	6.84'		↕	NL	ASPH	6"	MANATEE COUNTY	1141667.31'	484250.89'	13.58'	6.74'

Notes: TH# 21-1 - POSSIBLE 20" DIP; UNABLE TO VISUALLY VERIFY DUE TO WATER AND CAVE IN

											Prepared by: CM		Date: 10/22/2021	
											Checked by: MA		Date: 10/22/2021	

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Financial Project #:	N/A				General Location:	27th Street	
Truck No.:	VT-1 & D3-TU2				Coordinate Unit of Measure:	US Survey Feet	


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CATV = Cable Television	BED = Buried Electrical Duct	DCT = Duct	Pipe		CONC = Concrete				ST = Swing Ties					
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											Horizontal: NAD83/11	Vertical: NAVD88		
CONFLICT LOCATIONS (CONT.)														

30-1	SAN	VCP	8"	4.26'	○	↕	NL	ASPH	6"	MANATEE COUNTY	1141667.58'	484262.33'	13.45'	9.19'
31-1	WM	PVC	8"	3.22'	○	↔	IRC	NG	N/A	MANATEE COUNTY	1141670.30'	484291.08'	13.27'	10.05'
32-1	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 9'						IRC	NG	N/A	N/A	1142331.65'	484227.39'	12.19'	N/A
33-1	FOC/BT	PVC	4"	2.00'	○	↕	IRC	NG	N/A	FRONTIER	1142328.36'	484235.37'	11.47'	9.47'
34-1	FOC/BT	PVC	4"	1.76'	○	↕	IRC	NG	N/A	FRONTIER	1142281.54'	484235.31'	11.02'	9.26'
35-1	WM	PVC	6"	3.56'	○	↔	NL	ASPH	6"	MANATEE COUNTY	1142285.77'	484265.25'	13.88'	10.32'
36-1	FM	PVC	6"	4.46'	○	↗	IRC	NG	N/A	MANATEE COUNTY	1142312.27'	484298.50'	13.54'	9.08'
37-1	FOC	PE	1.5"	2.72'	◦	↕	IRC	NG	N/A	FRONTIER	1142307.25'	484290.96'	13.43'	10.71'
37-2	FOC/BT	PE & DBC	4" & 2"	2.14'	◦	↕	IRC	NG	N/A	FRONTIER	1142307.05'	484287.57'	13.35'	11.21'

Notes: TH# 32-1 - UNABLE TO REACH WATER MAIN DUE TO DEPTH AND HARD GROUND

	Prepared by: CM Date: 10/22/2021
	Checked by: MA Date: 10/22/2021

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FM = Force Main	BTD = Buried Telephone Duct	DIP = Ductile Iron Pipe	RCP = Reinforced Concrete Pipe		NG = Natural Ground				X = "X" in Concrete					
Test Hole	Utility Type	Utility Material	Utility Size Outside Diameter inches	Utility Manual Depth feet	Cross Sectional View	 Utility Direction	Identified By	Surface Type	Surface Thickness inches	Apparent Utility Owner	Datums:		Ground Elevation	Utility Elevation
											Horizontal:	Vertical:		
											NAD83/11	NAVD88		
											Northing	Easting		


CONFLICT LOCATIONS (CONT.)

38-1	FOC	PE	1.5"	2.96'	°	↕	IRC	NG	N/A	FRONTIER	1142284.09'	484292.69'	13.43'	10.47'	
38-2	FOC/BT	PVC	2-4"	2.59'	○○	↕	IRC	NG	N/A	FRONTIER	1142283.88'	484286.08'	13.27'	10.68'	
39-1	WM	PVC	6"	2.80'	○	↕	NL	ASPH	4"	MANATEE COUNTY	1142829.78'	484228.39'	12.91'	10.11'	
40-1	TS	PVC	3"	1.90'	°	↕	NL	ASPH	4"	MANATEE COUNTY	1142829.52'	484233.35'	12.92'	11.02'	
41-1	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 6'						NL	ASPH	8"	N/A		1142811.71'	484277.96'	12.69'	N/A
41-2	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 9'						IRC	NG	N/A	N/A		1142818.86'	484293.38'	12.16'	N/A
42-1	WM	PVC	8"	1.56'	○	↕	IRC	NG	N/A	MANATEE COUNTY	1143152.30'	484237.98'	12.90'	11.34'	
42-2	FOC	PE	2-4"	3.34'	○○	↕	IRC	NG	N/A	UNITI FIBER	1143152.13'	484234.41'	12.63'	9.29'	
43-1	WM	PVC	8"	8.58'	○	↕	IRC	NG	N/A	MANATEE COUNTY	1143768.44'	484239.68'	12.00'	3.42'	

Notes: TH# 41-1 - UNABLE TO REACH WATER MAIN DUE TO HARD GROUND

	Prepared by: CM	Date: 10/22/2021
	Checked by: MA	Date: 10/22/2021

Date:	8/18 - 10/21/2021	Test Hole Data Report				Crew Members:	PK,DP,BH,DS,RR,AW,JB,MG
ECHO Project #:	21-296	4803 George Road, Ste. 350 Tampa, Florida 33634 400 SR 434, Ste. 1024 Oviedo, Florida 32765	 ECHO UTILITY ENGINEERING & SURVEY	ECHO UES, Inc. www.echoues.com 888.778.ECHO - GROW, INSPIRE, MAKE A DIFFERENCE -	City, State:	Bradenton, FL	
Financial Project #:	N/A				General Location:	27th Street	
Truck No.:	VT-1 & D3-TU2				Coordinate Unit of Measure:	US Survey Feet	

Utility Type		Utility Material				Identified By:		Abbreviations		Offset Measured From:				
BE = Buried Electrical	RCW = Reclaimed Water	AC = Transite	GALV = Galvanized Pipe		HUB = Survey Hub		N/A = Not Applicable		EP= Edge of Pavement					
GM = Gas Main	TS = Traffic Signal	CI= Cast Iron	HDPE = High Density Polyethylene Pipe		IRC = Iron Rod & Cap "ECHO TEST HOLE"		NAD = North American Datum		BC = Back of Curb					
BT = Buried Telephone	SL = Street Light	CP = Concrete Pipe	PE = Polyethylene Pipe		NL = Nail & Disk "ECHO TEST HOLE"		Datum		BL = Baseline of Survey					
FOC = Fiber Optic Cable	GW = Ground Wire	DBC = Direct Buried Cable	PVC = Polyvinyl Chloride		SLEEVE = Sleeve		NAVD = North American Vertical Datum		COORD = Survey Coordinates					
WM = Water Main	GS = Gas Service	CMP = Corrugated Metal Pipe	STL = Steel		X = "X" in Concrete		Vertical Datum		CL = Centerline					
SAN = Sanitary Sewer	WS = Water Service	CONC = Concrete	VCP = Vitrified Clay Pipe		Surface Type		UNK = Unknown		HUB = Survey Hub					
STM = Storm Sewer	UNK = Unknown Utility	CPP = Corrugated Plastic Pipe	PCCP = Prestressed Cylinder Concrete Pipe		ASPH = Asphalt				RW = Right of Way					
CATV = Cable Television	BED = Buried Electrical Duct	DCT = Duct			CONC = Concrete				ST = Swing Ties					
FM = Force Main	BTD = Buried Telephone Duct	DIP = Ductile Iron Pipe	RCP = Reinforced Concrete Pipe		NG = Natural Ground				X = "X" in Concrete					
Test Hole	Utility Type	Utility Material	Utility Size Outside Diameter inches	Utility Manual Depth feet	Cross Sectional View	 Utility Direction	Identified By	Surface Type	Surface Thickness inches	Apparent Utility Owner	Datums:		Ground Elevation	Utility Elevation
											Horizontal: NAD83/11	Vertical: NAVD88		
												Northing	Easting	


CONFLICT LOCATIONS (CONT.)

44-1	WM	PVC	6"	2.96'	○	↔	IRC	NG	N/A	MANATEE COUNTY	1142836.37'	483596.16'	13.48'	10.52'
45-1	FM	PVC	4"	2.60'	○	↔	IRC	NG	N/A	MANATEE COUNTY	1142863.61'	484559.98'	13.06'	10.46'
45-2	GW	PVC	4"	3.34'	○	↑↓	IRC	NG	N/A	FPL	1142864.77'	484561.28'	13.01'	9.67'
46-1	BE	PVC	4-2"	3.40'	⊗	↑↓	IRC	NG	N/A	FPL	1142820.94'	484551.93'	12.53'	9.13'
46-2	FOC/BT	DBC & PVC	2" & 4"	2.20'	○•	↔	IRC	NG	N/A	CHARTER COMMUNICATIONS	1142818.92'	484554.32'	12.27'	10.07'
46-3	WM	PVC	6"	2.66'	○	↑↓	IRC	NG	N/A	MANATEE COUNTY	1142821.69'	484555.97'	12.68'	10.02'
46-4	GW	COPPER	2-1"	3.54'	-	↑↓	IRC	MG	N/A	FPL	1142821.16'	484559.62'	12.58'	9.04'
47-1	FOC/BT	DBC & PVC	2" & 4"	2.80'	○•	↔	IRC	NG	N/A	FRONTIER	1142821.32'	484906.84'	10.28'	7.48'

Notes:

	Prepared by: CM Date: 10/22/2021
	Checked by: MA Date: 10/22/2021

Date:	8/18 - 10/21/2021	Test Hole Data Report				Crew Members:	PK,DP,BH,DS,RR,AW,JB,MG
ECHO Project #:	21-296	4803 George Road, Ste. 350 Tampa, Florida 33634 400 SR 434, Ste. 1024 Oviedo, Florida 32765	 ECHO UTILITY ENGINEERING & SURVEY	ECHO UES, Inc. www.echoues.com 888.778.ECHO - GROW, INSPIRE, MAKE A DIFFERENCE -	City, State:	Bradenton, FL	
Financial Project #:	N/A				General Location:	27th Street	
Truck No.:	VT-1 & D3-TU2				Coordinate Unit of Measure:	US Survey Feet	

Utility Type		Utility Material				Identified By:		Abbreviations		Offset Measured From:				
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GM = Gas Main	TS = Traffic Signal	CI= Cast Iron	HDPE = High Density Polyethylene Pipe		IRC = Iron Rod & Cap "ECHO TEST HOLE"		NAD = North American Datum		BC = Back of Curb					
BT = Buried Telephone	SL = Street Light	CP = Concrete Pipe	PE = Polyethylene Pipe		NL = Nail & Disk "ECHO TEST HOLE"		Datum		BL = Baseline of Survey					
FOC = Fiber Optic Cable	GW = Ground Wire	DBC = Direct Buried Cable	PVC = Polyvinyl Chloride		SLEEVE = Sleeve		NAVD = North American Vertical Datum		COORD = Survey Coordinates					
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SAN = Sanitary Sewer	WS = Water Service	CONC = Concrete	VCP = Vitrified Clay Pipe		Surface Type		UNK = Unknown		HUB = Survey Hub					
STM = Storm Sewer	UNK = Unknown Utility	CPP = Corrugated Plastic Pipe	PCCP = Prestressed Cylinder Concrete Pipe		ASPH = Asphalt				RW = Right of Way					
CATV = Cable Television	BED = Buried Electrical Duct	DCT = Duct	Pipe		CONC = Concrete				ST = Swing Ties					
FM = Force Main	BTD = Buried Telephone Duct	DIP = Ductile Iron Pipe	RCP = Reinforced Concrete Pipe		NG = Natural Ground				X = "X" in Concrete					
Test Hole	Utility Type	Utility Material	Utility Size Outside Diameter inches	Utility Manual Depth feet	Cross Sectional View	 Utility Direction	Identified By	Surface Type	Surface Thickness inches	Apparent Utility Owner	Datums:		Ground Elevation	Utility Elevation
											Northing	Easting		


DRAINAGE STRUCTURES CONFLICTS (CONT.)

S9-2	FOC	PE	1.5"	2.80'	°	↕	IRC	NG	N/A	UNITI FIBER	1140127.80'	484279.76'	14.93'	12.13'
S9E-1	WM	DIP	18"	5.22'	○	↕	NL	ASPH	6"	CITY OF BRADENTON	1140113.14'	484235.57'	16.24'	11.02'
S12-1	WM	PVC	4"	2.80'	○	↕	IRC	NG	N/A	MANATEE COUNTY	1140190.14'	484205.81'	15.18'	12.38'
S13A-1	WM	PVC	4"	2.44'	○	↗	IRC	NG	N/A	MANATEE COUNTY	1140301.87'	484122.86'	16.25'	13.81'
S18-1	FOC	PE	1.5"	1.92'	°	↕	IRC	NG	N/A	FRONTIER	1140797.32'	484273.03'	14.28'	12.36'
S18-2	FOC	PE	2-2"	2.92'	∞	↕	IRC	NG	N/A	FRONTIER	1140798.20'	484283.73'	15.37'	12.45'
S20-1	FOC	PE	2"	2.58'	°	↕	IRC	NG	N/A	MCI	1140993.58'	484229.85'	15.09'	12.51'
S21-1	FOC	PVC	4"	3.86'	○	↕	IRC	NG	N/A	FRONTIER	1140990.76'	484266.67'	15.06'	11.20'
S21-2	FOC	PE	1.5"	2.62'	°	↕	IRC	NG	N/A	FRONTIER	1140990.57'	484277.07'	14.74'	12.12'

Notes: TH# S18-2 - POSSIBLE 2-2" PE; UNABLE TO VISUALLY VERIFY DUE TO WATER AND CAVE IN

	Prepared by: CM	Date: 10/22/2021
	Checked by: MA	Date: 10/22/2021

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ECHO Project #:	21-296	4803 George Road, Ste. 350 Tampa, Florida 33634 400 SR 434, Ste. 1024 Oviedo, Florida 32765	 ECHO UTILITY ENGINEERING & SURVEY	ECHO UES, Inc. www.echoues.com 888.778.ECHO - GROW, INSPIRE, MAKE A DIFFERENCE -	City, State:	Bradenton, FL	
Financial Project #:	N/A				General Location:	27th Street	
Truck No.:	VT-1 & D3-TU2				Coordinate Unit of Measure:	US Survey Feet	

Utility Type		Utility Material				Identified By:		Abbreviations		Offset Measured From:				
BE = Buried Electrical	RCW = Reclaimed Water	AC = Transite	GALV = Galvanized Pipe		HUB = Survey Hub		N/A = Not Applicable		EP= Edge of Pavement					
GM = Gas Main	TS = Traffic Signal	CI = Cast Iron	HDPE = High Density Polyethylene Pipe		IRC = Iron Rod & Cap "ECHO TEST HOLE"		NAD = North American Datum		BC = Back of Curb					
BT = Buried Telephone	SL = Street Light	CP = Concrete Pipe	PE = Polyethylene Pipe		NL = Nail & Disk "ECHO TEST HOLE"		Datum		BL = Baseline of Survey					
FOC = Fiber Optic Cable	GW = Ground Wire	DBC = Direct Buried Cable	PVC = Polyvinyl Chloride		SLEEVE = Sleeve		NAVD = North American Vertical Datum		COORD = Survey Coordinates					
WM = Water Main	GS = Gas Service	CMP = Corrugated Metal Pipe	STL = Steel		X = "X" in Concrete		UNK = Unknown		CL = Centerline					
SAN = Sanitary Sewer	WS = Water Service	CONC = Concrete	VCP = Vitrified Clay Pipe		Surface Type				HUB = Survey Hub					
STM = Storm Sewer	UNK = Unknown Utility	CPP = Corrugated Plastic Pipe	PCCP = Prestressed Cylinder Concrete Pipe		ASPH = Asphalt				RW = Right of Way					
CATV = Cable Television	BED = Buried Electrical Duct	DCT = Duct			CONC = Concrete				ST = Swing Ties					
FM = Force Main	BTD = Buried Telephone Duct	DIP = Ductile Iron Pipe	RCP = Reinforced Concrete Pipe		NG = Natural Ground				X = "X" in Concrete					
Test Hole	Utility Type	Utility Material	Utility Size Outside Diameter inches	Utility Manual Depth feet	Cross Sectional View	 Utility Direction	Identified By	Surface Type	Surface Thickness inches	Apparent Utility Owner	Datums:		Ground Elevation	Utility Elevation
											Horizontal:	Vertical:		
											NAD83/11	NAVD88		
											Northing	Easting		


DRAINAGE STRUCTURES CONFLICTS (CONT.)

S24-1	FOC	PE	2"	2.18'	°	↕	X	CONC	4"	FRONTIER	1141409.06'	484232.26'	13.81'	11.63'
S27A-1	FOC	PE	1.5"	3.04'	°	↔	X	CONC	4"	FRONTIER	1141466.74'	484199.12'	13.62'	10.58'
S27A-2	WM	CI	18"	5.90'	○	↘	IRC	NG	N/A	CITY OF BRADENTON	1141473.80'	484202.12'	13.86'	7.96'
S34-1	BE	PVC	2-4"	5.46'	∞	↔	IRC	NG	N/A	FPL	1141521.11'	484284.67'	12.56'	7.10'
S40-1	FOC	PE	2"	4.18'	°	↕	IRC	NG	N/A	MCI	1141891.93'	484276.57'	12.94'	8.76'
S40-2	FOC	PVC	2-4"	2.58'	∞	↕	IRC	NG	N/A	MCI	1141892.14'	484279.77'	12.96'	10.38'
S40-3	FOC/BT	PVC & DBC	4" & 2"	3.16'	◦	↕	IRC	NG	N/A	FRONTIER	1141891.88'	484283.16'	13.08'	9.92'
S40-4	FOC	PE	1.5"	2.50'	°	↕	IRC	NG	N/A	FRONTIER	1141892.21'	484287.90'	13.34'	10.84'
S46-1	WM	PVC	4"	3.00'	○	↕	IRC	NG	N/A	MANATEE COUNTY	1142760.62'	484277.43'	12.55'	9.55'

Notes:

	Prepared by: CM Date: 10/22/2021
	Checked by: MA Date: 10/22/2021

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Financial Project #:	N/A				General Location:	27th Street	
Truck No.:	VT-1 & D3-TU2				Coordinate Unit of Measure:	US Survey Feet	

Utility Type		Utility Material				Identified By:		Abbreviations		Offset Measured From:				
BE = Buried Electrical	RCW = Reclaimed Water	AC = Transit	GALV = Galvanized Pipe		HUB = Survey Hub		N/A = Not Applicable		EP= Edge of Pavement					
GM = Gas Main	TS = Traffic Signal	CI= Cast Iron	HDPE = High Density Polyethylene Pipe		IRC = Iron Rod & Cap "ECHO TEST HOLE"		NAD = North American Datum		BC = Back of Curb					
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CATV = Cable Television	BED = Buried Electrical Duct	DCT = Duct	Pipe		CONC = Concrete				ST = Swing Ties					
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Test Hole	Utility Type	Utility Material	Utility Size Outside Diameter inches	Utility Manual Depth feet	Cross Sectional View	 Utility Direction	Identified By	Surface Type	Surface Thickness inches	Apparent Utility Owner	Datums:		Ground Elevation	Utility Elevation
											Horizontal:	NAD83/11		
											Northing	Easting		

DRAINAGE STRUCTURES CONFLICTS (CONT.)

S46-2	FM	PVC	6"	2.90'	○	↕	X	CONC	4"	MANATEE COUNTY	1142760.13'	484281.53'	12.29'	9.39'
S46A-1	FM	PVC	6"	3.62'	○	↕	X	CONC	2"	MANATEE COUNTY	1142649.16'	484278.95'	12.82'	9.20'
S46A-2	WM	PVC	4"	2.86'	○	↕	IRC	NG	N/A	MANATEE COUNTY	1142650.14'	484276.88'	13.06'	10.20'
S46A-3	FOC	PE	2"	4.86'	◦	↕	IRC	NG	N/A	MCI	1142650.27'	484276.50'	13.11'	8.25'
S46B-1	FM	PVC	6"	3.72'	○	↕	IRC	NG	N/A	MANATEE COUNTY	1142535.80'	484277.66'	13.24'	9.52'
S46B-2	WM	PVC	4"	3.38'	○	↕	IRC	NG	N/A	MANATEE COUNTY	1142535.22'	484276.08'	13.53'	10.15'
S46B-3	FOC	PE	2"	7.00'	◦	↕	IRC	NG	N/A	FRONTIER	1142535.06'	484275.24'	13.62'	6.62'
S48-1	FOC	PVC	3-2"	2.86'	∞	↔	IRC	NG	N/A	FRONTIER	1142882.54'	484178.49'	11.75'	8.89'
S48-2	BT	PVC	2-4"	2.66'	∞	↔	IRC	NG	N/A	FRONTIER	1142877.14'	484177.61'	12.12'	9.46'


Notes: TH# S48-1 - PIN SET ON NORTH EDGE

TH# S48-2 - PIN SET ON SOUTH EDGE

Prepared by: CM **Date:** 10/22/2021

Checked by: MA **Date:** 10/22/2021

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ECHO Project #:	21-296	4803 George Road, Ste. 350 Tampa, Florida 33634		 ECHO UTILITY ENGINEERING & SURVEY <small>- GROW, INSPIRE, MAKE A DIFFERENCE -</small>	ECHO UES, Inc. www.echoues.com 888.778.ECHO		City, State:	Bradenton, FL
Financial Project #:	N/A	400 SR 434, Ste. 1024 Oviedo, Florida 32765					General Location:	27th Street
Truck No.:	VT-1 & D3-TU2						Coordinate Unit of Measure:	US Survey Feet

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Test Hole	Utility Type	Utility Material	Utility Size Outside Diameter inches	Utility Manual Depth feet	Cross Sectional View	 Utility Direction	Identified By	Surface Type	Surface Thickness inches	Apparent Utility Owner	Datums:		Ground Elevation	Utility Elevation
											Horizontal: NAD83/11	Vertical: NAVD88		
											Northing	Easting		



DRAINAGE STRUCTURES CONFLICTS (CONT.)

S49-1	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 8'						IRC	NG	N/A	N/A	1142882.87'	484196.73'	11.67'	N/A
S54-1	WM	PVC	6"	2.20'	○	↕	IRC	NG	N/A	MANATEE COUNTY	1143672.63'	484236.78'	12.16'	9.96'
S54-2	FOC/BT	PVC	2-4"	3.24'	∞	↕	IRC	NG	N/A	FRONTIER	1143672.43'	484233.82'	12.36'	9.12'
S60-1	FOC/BT	PVC & DBC	4", 2" & 1"	2.20'	⊙	↔	IRC	NG	N/A	MCI	1142820.13'	484312.28'	11.98'	9.78'
S60-2	WM	PVC	6"	2.64'	○	↔	IRC	NG	N/A	MANATEE COUNTY	1142824.46'	484314.61'	12.18'	9.54'
S62-1	FOC	PE	1.5"	2.72'	◦	↔	IRC	NG	N/A	FRONTIER	1142815.01'	484548.02'	12.17'	9.45'
S62-2	WM	PVC	6"	2.20'	○	↔	IRC	NG	N/A	MANATEE COUNTY	1142819.73'	484554.23'	12.40'	10.20'
S63-1	CATV	DBC	1"	1.78'	•	↔	IRC	NG	N/A	CHARTER COMMUNICATIONS	1142807.51'	484548.99'	12.61'	10.83'
S64-1	FM	PVC	4"	2.30'	○	↔	NL	ASPH	2"	MANATEE COUNTY	1142863.73'	484525.55'	13.15'	10.85'


Notes:

Prepared by: CM **Date:** 10/22/2021

Checked by: MA **Date:** 10/22/2021

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Financial Project #:	N/A											General Location: 27th Street		
Truck No.:	VT-1 & D3-TU2											Coordinate Unit of Measure: US Survey Feet		
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GM = Gas Main	TS = Traffic Signal	CI= Cast Iron	HDPE = High Density Polyethylene Pipe		IRC = Iron Rod & Cap "ECHO TEST HOLE"			NAD = North American Datum		BC = Back of Curb				
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WM = Water Main	GS = Gas Service	CMP = Corrugated Metal Pipe	STL = Steel		X = "X" in Concrete			Vertical Datum		CL = Centerline				
SAN = Sanitary Sewer	WS = Water Service	CONC = Concrete	VCP = Vitrified Clay Pipe		Surface Type			UNK = Unknown		HUB = Survey Hub				
STM = Storm Sewer	UNK = Unknown Utility	CPP = Corrugated Plastic Pipe	PCCP = Prestressed Cylinder Concrete Pipe		ASPH = Asphalt					RW = Right of Way				
CATV = Cable Television	BED = Buried Electrical Duct	DCT = Duct	Pipe		CONC = Concrete					ST = Swing Ties				
FM = Force Main	BTD = Buried Telephone Duct	DIP = Ductile Iron Pipe	RCP = Reinforced Concrete Pipe		NG = Natural Ground					X = "X" in Concrete				
Test Hole	Utility Type	Utility Material	Utility Size Outside Diameter inches	Utility Manual Depth feet	Cross Sectional View	 Utility Direction	Identified By	Surface Type	Surface Thickness inches	Apparent Utility Owner	Datums:		Ground Elevation	Utility Elevation
											Northing			
PROPOSED MAST ARM 1														
1-1-1-1	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 10'						IRC	NG	N/A	N/A	1142896.94'	484187.00'	12.53'	N/A
1-1-1-2	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 10'						IRC	NG	N/A	N/A	1142891.73'	484186.30'	12.30'	N/A
1-1-1-3	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 10'						IRC	NG	N/A	N/A	1142897.51'	484181.66'	12.45'	N/A
1-1-1-4	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 10'						IRC	NG	N/A	N/A	1142902.42'	484187.27'	12.60'	N/A
1-1-1-5	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 10'						IRC	NG	N/A	N/A	1142896.83'	484192.34'	12.56'	N/A
PROPOSED MAST ARM 2														
2-1-1-1	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 10'						IRC	NG	N/A	N/A	1142762.49'	484195.24'	12.79'	N/A
2-1-1-2	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 10'						IRC	NG	N/A	N/A	1142762.77'	484200.41'	13.10'	N/A
2-1-1-3	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 10'						IRC	NG	N/A	N/A	1142757.48'	484195.54'	12.73'	N/A
Notes:														
												Prepared by: CM Date: 10/22/2021		
												Checked by: MA Date: 10/22/2021		

Date:	8/18 - 10/21/2021	Test Hole Data Report				Crew Members:	PK,DP,BH,DS,RR,AW,JB,MG
ECHO Project #:	21-296	4803 George Road, Ste. 350 Tampa, Florida 33634 400 SR 434, Ste. 1024 Oviedo, Florida 32765	 ECHO UTILITY ENGINEERING & SURVEY	ECHO UES, Inc. www.echoues.com 888.778.ECHO - GROW, INSPIRE, MAKE A DIFFERENCE -	City, State:	Bradenton, FL	
Financial Project #:	N/A				General Location:	27th Street	
Truck No.:	VT-1 & D3-TU2				Coordinate Unit of Measure:	US Survey Feet	

Utility Type		Utility Material			Identified By:		Abbreviations	Offset Measured From:							
BE = Buried Electrical	RCW = Reclaimed Water	AC = Transite	GALV = Galvanized Pipe		HUB = Survey Hub		N/A = Not Applicable	EP= Edge of Pavement							
GM = Gas Main	TS = Traffic Signal	CI= Cast Iron	HDPE = High Density Polyethylene Pipe		IRC = Iron Rod & Cap "ECHO TEST HOLE"		NAD = North American Datum	BC = Back of Curb							
BT = Buried Telephone	SL = Street Light	CP = Concrete Pipe	PE = Polyethylene Pipe		NL = Nail & Disk "ECHO TEST HOLE"		Datum	BL = Baseline of Survey							
FOC = Fiber Optic Cable	GW = Ground Wire	DBC = Direct Buried Cable	PVC = Polyvinyl Chloride		SLEEVE = Sleeve		NAVD = North American Vertical Datum	COORD = Survey Coordinates							
WM = Water Main	GS = Gas Service	CMP = Corrugated Metal Pipe	STL = Steel		X = "X" in Concrete		Vertical Datum	CL = Centerline							
SAN = Sanitary Sewer	WS = Water Service	CONC = Concrete	VCP = Vitrified Clay Pipe		Surface Type		UNK = Unknown	HUB = Survey Hub							
STM = Storm Sewer	UNK = Unknown Utility	CPP = Corrugated Plastic Pipe	PCCP = Prestressed Cylinder Concrete Pipe		ASPH = Asphalt			RW = Right of Way							
CATV = Cable Television	BED = Buried Electrical Duct	DCT = Duct	Pipe		CONC = Concrete			ST = Swing Ties							
FM = Force Main	BTD = Buried Telephone Duct	DIP = Ductile Iron Pipe	RCP = Reinforced Concrete Pipe		NG = Natural Ground			X = "X" in Concrete							
Test Hole	Utility Type	Utility Material	Utility Size Outside Diameter inches	Utility Manual Depth feet	Cross Sectional View	 Utility Direction	Identified By	Surface Type	Surface Thickness inches	Apparent Utility Owner	Datums:		Horizontal: NAD83/11 Vertical: NAVD88	Ground Elevation	Utility Elevation
											Northing				

PROPOSED MAST ARM 2 (CONT.)

2-1-1-4	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 10'			IRC	NG	N/A	N/A	1142763.20'	484190.05'	13.04'	N/A
2-1-1-5	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 10'			IRC	NG	N/A	N/A	1142768.28'	484194.94'	12.27'	N/A



PROPOSED MAST ARM 3

3-1-1-1	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 10'			IRC	NG	N/A	N/A	1142789.80'	484315.68'	12.74'	N/A
3-1-1-2	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 10'			IRC	NG	N/A	N/A	1142789.47'	484320.74'	12.84'	N/A
3-1-1-3	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 10'			IRC	NG	N/A	N/A	1142784.16'	484315.65'	12.91'	N/A
3-1-1-4	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 10'			IRC	NG	N/A	N/A	1142789.51'	484310.04'	12.68'	N/A
3-1-1-5	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 10'			IRC	NG	N/A	N/A	1142794.86'	484315.37'	12.64'	N/A


Notes:

Prepared by: CM **Date:** 10/22/2021

Checked by: MA **Date:** 10/22/2021

Date:	8/18 - 10/21/2021		Test Hole Data Report						Crew Members: PK,DP,BH,DS,RR,AW,JB,MG					
ECHO Project #:	21-296		4803 George Road, Ste. 350 Tampa, Florida 33634 400 SR 434, Ste. 1024 Oviedo, Florida 32765			 ECHO UTILITY ENGINEERING & SURVEY <small>- GROW, INSPIRE, MAKE A DIFFERENCE -</small>			ECHO UES, Inc. www.echoues.com 888.778.ECHO		City, State: Bradenton, FL			
Financial Project #:	N/A								General Location: 27th Street					
Truck No.:	VT-1 & D3-TU2								Coordinate Unit of Measure: US Survey Feet					
Utility Type				Utility Material				Identified By:			Abbreviations		Offset Measured From:	
BE = Buried Electrical		RCW = Reclaimed Water		AC = Transite		GALV = Galvanized Pipe		HUB = Survey Hub			N/A = Not Applicable		EP= Edge of Pavement	
GM = Gas Main		TS = Traffic Signal		CI= Cast Iron		HDPE = High Density Polyethylene Pipe		IRC = Iron Rod & Cap "ECHO TEST HOLE"			NAD = North American Datum		BC = Back of Curb	
BT = Buried Telephone		SL = Street Light		CP = Concrete Pipe		PE = Polyethylene Pipe		NL = Nail & Disk "ECHO TEST HOLE"			Datum		BL = Baseline of Survey	
FOC = Fiber Optic Cable		GW = Ground Wire		DBC = Direct Buried Cable		PVC = Polyvinyl Chloride		SLEEVE = Sleeve			NAVD = North American Vertical Datum		COORD = Survey Coordinates	
WM = Water Main		GS = Gas Service		CMP = Corrugated Metal Pipe		STL = Steel		X = "X" in Concrete			Vertical Datum		CL = Centerline	
SAN = Sanitary Sewer		WS = Water Service		CONC = Concrete		VCP = Vitrified Clay Pipe		Surface Type			UNK = Unknown		HUB = Survey Hub	
STM = Storm Sewer		UNK = Unknown Utility		CPP = Corrugated Plastic Pipe		PCCP = Prestressed Cylinder Concrete Pipe		ASPH = Asphalt					RW = Right of Way	
CATV = Cable Television		BED = Buried Electrical Duct		DCT = Duct		Pipe		CONC = Concrete					ST = Swing Ties	
FM = Force Main		BTD = Buried Telephone Duct		DIP = Ductile Iron Pipe		RCP = Reinforced Concrete Pipe		NG = Natural Ground					X = "X" in Concrete	
Test Hole	Utility Type	Utility Material	Utility Size Outside Diameter inches	Utility Manual Depth feet	Cross Sectional View	 Utility Direction	Identified By	Surface Type	Surface Thickness inches	Apparent Utility Owner	Datums:		Ground Elevation	Utility Elevation
											Northing			
PROPOSED MAST ARM 4														
4-1-1-1	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 7'						IRC	NG	N/A	N/A	1142881.51'	484293.89'	12.36'	N/A
4-1-1-2	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 9'						IRC	NG	N/A	N/A	1142886.32'	484294.36'	11.92'	N/A
4-1-1-3	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 7'						IRC	NG	N/A	N/A	1142881.20'	484299.01'	12.09'	N/A
4-1-1-4	FOC	PVC	2-4"	2.50'	⊗	↔	IRC	NG	N/A	MCI	1142877.16'	484292.44'	12.76'	10.26'
4-1-1-5	FOC	PVC	4"	2.64'	○	↕	IRC	NG	N/A	MCI	1142881.12'	484289.87'	12.66'	10.02'
4-1-1-6	GM	PE	2"	1.54'	◦	↕	IRC	NG	N/A	TECO PEOPLES GAS	1142892.39'	484302.85'	12.22'	10.68'
PROPOSED PEDESTRIAN POLES														
A-1-1	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 10'						X	CONC	3"	N/A	1142900.29'	484282.16'	12.83'	N/A
A-1-2	FM	PVC	6"	2.40'	○	↕	X	CONC	4"	MANATEE COUNTY	1142899.77'	484278.06'	12.49'	10.09'
Notes: TH# 4-1-1-4 - PIN SET ON NORTH EDGE														
TH# 4-1-1-5 - PIN SET ON EAST EDGE														
TH# A-1-1 - UNABLE TO REACH FORCE MAIN DUE TO DEPTH														
											Prepared by: CM Date: 10/22/2021			
											Checked by: MA Date: 10/22/2021			

Date:	8/18 - 10/21/2021	Test Hole Data Report				Crew Members:	PK,DP,BH,DS,RR,AW,JB,MG
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Financial Project #:	N/A				General Location:	27th Street	
Truck No.:	VT-1 & D3-TU2				Coordinate Unit of Measure:	US Survey Feet	

Utility Type		Utility Material				Identified By:		Abbreviations		Offset Measured From:				
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FOC = Fiber Optic Cable	GW = Ground Wire	DBC = Direct Buried Cable	PVC = Polyvinyl Chloride		SLEEVE = Sleeve		NAVD = North American Vertical Datum		COORD = Survey Coordinates					
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Test Hole	Utility Type	Utility Material	Utility Size Outside Diameter inches	Utility Manual Depth feet	Cross Sectional View	 Utility Direction	Identified By	Surface Type	Surface Thickness inches	Apparent Utility Owner	Datums:		Ground Elevation	Utility Elevation
											Horizontal:	Vertical:		
											NAD83/11	NAVD88		
											Northing	Easting		

PROPOSED PEDESTRIAN POLES (CONT.)


A-1-3	FOC	PVC	2-4"	2.60'	○○	↕	X	CONC	4"	MCI	1142899.83'	484285.24'	12.88'	10.28'
B-1-1	FM	PVC	6"	4.28'	○	↕	X	CONC	4"	MANATEE COUNTY	1142883.75'	484282.58'	12.71'	8.43'
B-1-2	TS	PVC	2.5"	1.40'	◦	↕	IRC	NG	N/A	MANATEE COUNTY	1142883.12'	484280.89'	12.72'	11.32'
B-1-3	FM	CI	4"	3.30'	○	↙	IRC	NG	N/A	MANATEE COUNTY	1142885.81'	484277.81'	12.93'	9.63'
C-1-1	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 10'						IRC	NG	N/A	N/A	1142794.90'	484313.40'	12.62'	N/A
D-1-1	FOC	PVC	2-4"	2.40'	○○	↕	IRC	NG	N/A	MCI	1142762.56'	484285.27'	12.29'	9.89'
D-1-2	FOC/BT	PVC & DBC	4" & 2"	2.38'	●○	↕	IRC	NG	N/A	MCI	1142762.51'	484287.31'	12.28'	9.90'
D-1-3	FOC	PE	1.5"	2.36'	◦	↕	IRC	NG	N/A	MCI	1142761.89'	484289.38'	12.20'	9.84'
E-1-1	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 10'						IRC	NG	N/A	N/A	1142774.50'	484195.00'	12.20'	N/A

Notes:

Prepared by: CM Date: 10/22/2021

Checked by: MA Date: 10/22/2021

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Financial Project #:	N/A				General Location:	27th Street	
Truck No.:	VT-1 & D3-TU2				Coordinate Unit of Measure:	US Survey Feet	

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Test Hole	Utility Type	Utility Material	Utility Size Outside Diameter inches	Utility Manual Depth feet	Cross Sectional View	 Utility Direction	Identified By	Surface Type	Surface Thickness inches	Apparent Utility Owner	Datums:		Ground Elevation	Utility Elevation
											Northing			

PROPOSED PEDESTRIAN POLES (CONT.)

F-1-1	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 10'						IRC	NG	N/A	N/A	1142781.04'	484186.35'	12.81'	N/A
G-1-2	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 10'						IRC	NG	N/A	N/A	1142884.95'	484191.46'	11.99'	N/A
G-1-1	FOC	PVC	3-2"	2.22'	∞°	←→	IRC	NG	N/A	UNITI FIBER	1142882.80'	484190.90'	11.59'	9.37'
H-1-1	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 10'						IRC	NG	N/A	N/A	1142900.26'	484198.77'	12.59'	N/A

PROPOSED ITS POLES

1-1-1	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 8'						IRC	NG	N/A	N/A	1142841.07'	483213.53'	12.07'	N/A
1-1-2	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 9'						IRC	NG	N/A	N/A	1142844.13'	483213.58'	12.43'	N/A
2-1-1	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 6'						IRC	NG	N/A	N/A	1143384.51'	484218.88'	12.68'	N/A
2-1-2	EXPLORATORY - NO UTILITIES FOUND - CLEARED TO 6'						IRC	NG	N/A	N/A	1143384.72'	484215.79'	12.66'	N/A

Notes:

	Prepared by: CM Date: 10/22/2021
	Checked by: MA Date: 10/22/2021



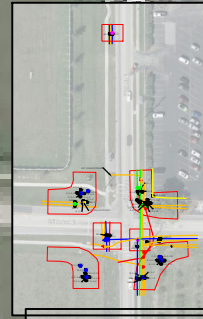
FOR EXHIBIT PURPOSES ONLY
THIS IS NOT A SURVEY
KEY SHEET

Sand Gables

SHEET 1



SHEET 2



6th Ave E

SHEET 9



SHEET 10

SHEET 3

SHEET 4

SHEET 5

SHEET 6

SHEET 7

SHEET 8

23rd St E

30th Ave E

25th St E

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32nd Ave E

33rd Avenue Dr E

34th Ave E

US Highway 301

301

Matzke Way

31st Ave E

34th Avenue Dr

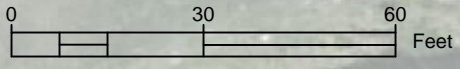
28th St E

29th St E

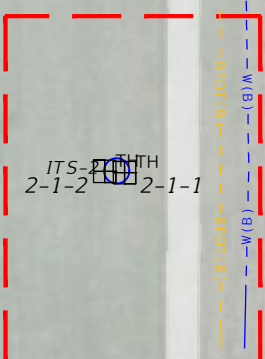
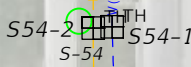
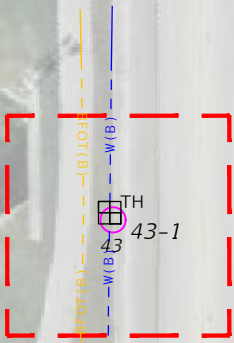
29th Street Ct E

37th Ave E





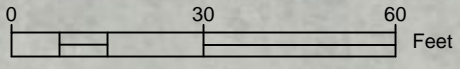
FOR EXHIBIT PURPOSES ONLY
THIS IS NOT A SURVEY
SHEET 1



27th St E

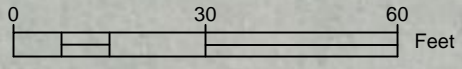
27th St E

27th St E



FOR EXHIBIT PURPOSES ONLY
THIS IS NOT A SURVEY
SHEET 3





FOR EXHIBIT PURPOSES ONLY
THIS IS NOT A SURVEY
SHEET 4

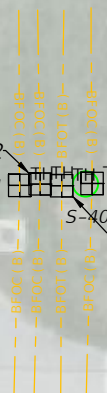
St E

27th St E

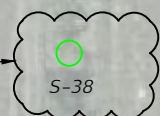
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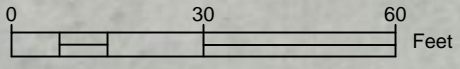
27th St E

S40-2
S40-1
S40-4
S-40
S40-3



UNABLE TO PERFORM SUE
DUE TO STANDING WATER





FOR EXHIBIT PURPOSES ONLY
THIS IS NOT A SURVEY
SHEET 5

UNABLE TO PERFORM SUE
DUE TO STANDING WATER

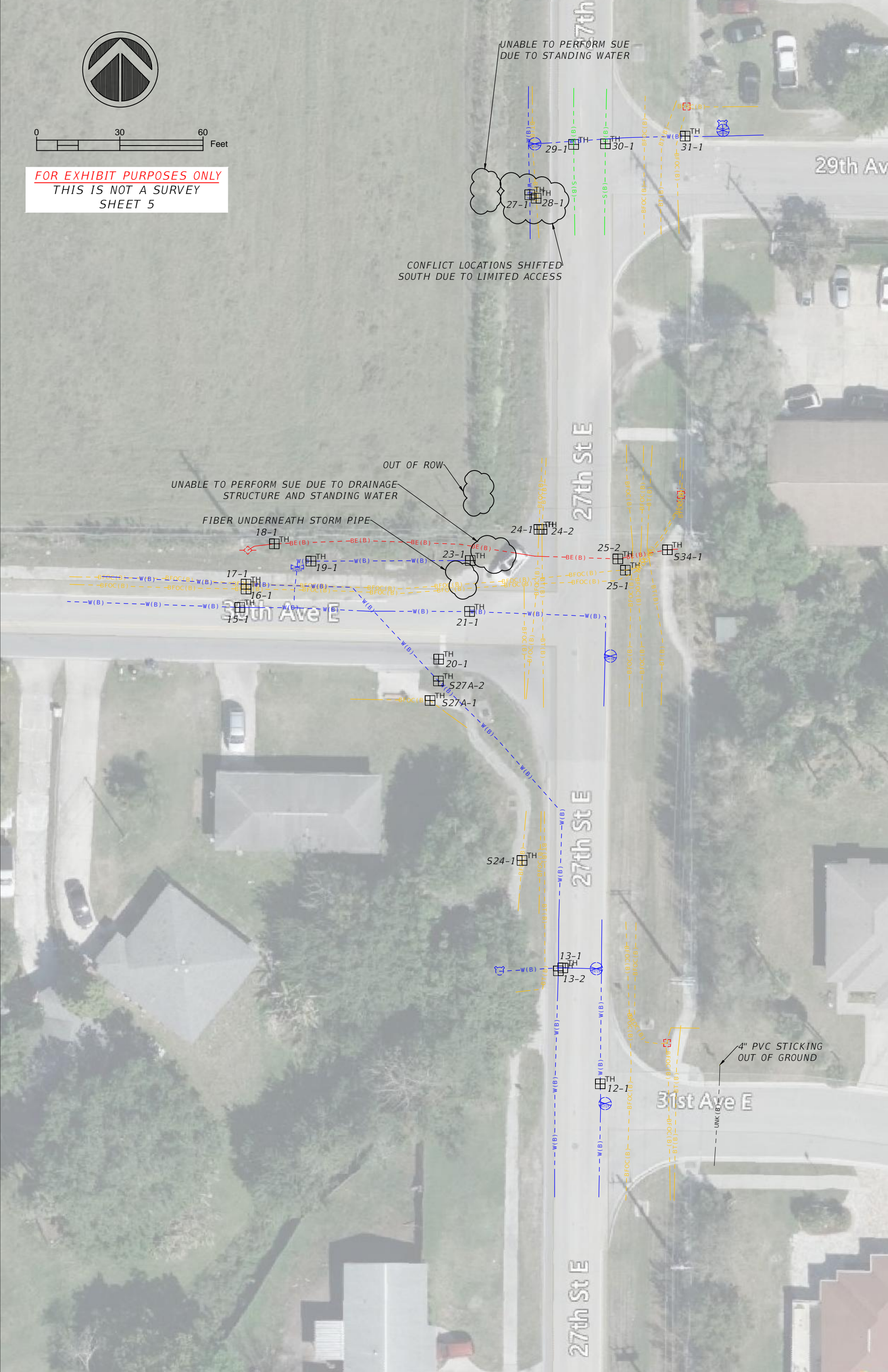
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SOUTH DUE TO LIMITED ACCESS

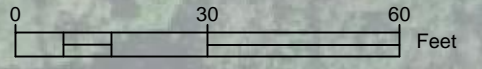
UNABLE TO PERFORM SUE DUE TO DRAINAGE
STRUCTURE AND STANDING WATER

FIBER UNDERNEATH STORM PIPE

OUT OF ROW

4" PVC STICKING
OUT OF GROUND





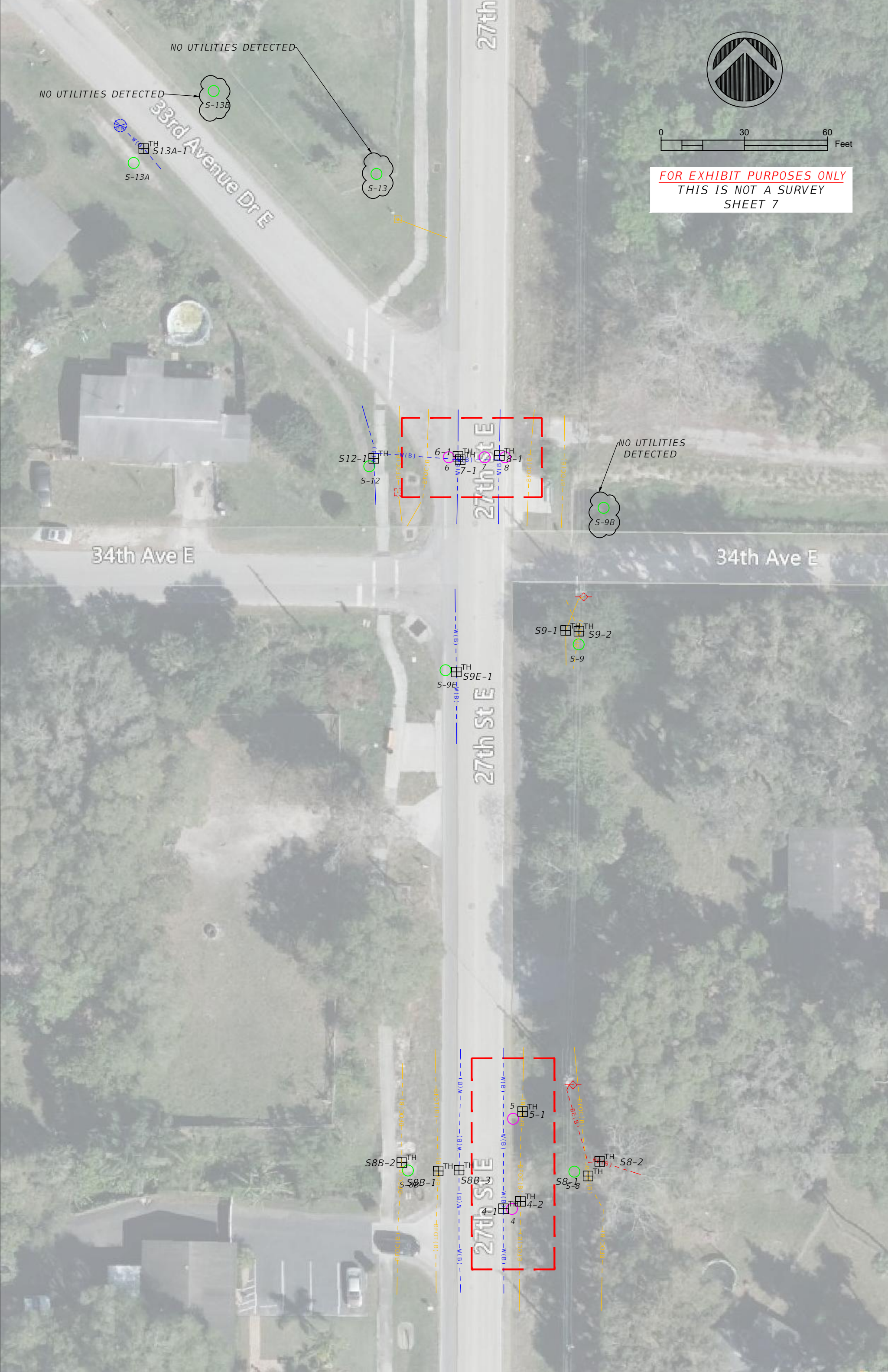
FOR EXHIBIT PURPOSES ONLY
THIS IS NOT A SURVEY
SHEET 7

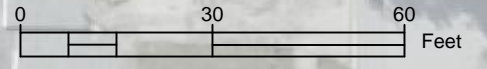
NO UTILITIES DETECTED

NO UTILITIES DETECTED

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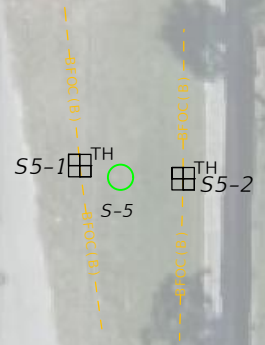




FOR EXHIBIT PURPOSES ONLY
THIS IS NOT A SURVEY
SHEET 8

27th St E

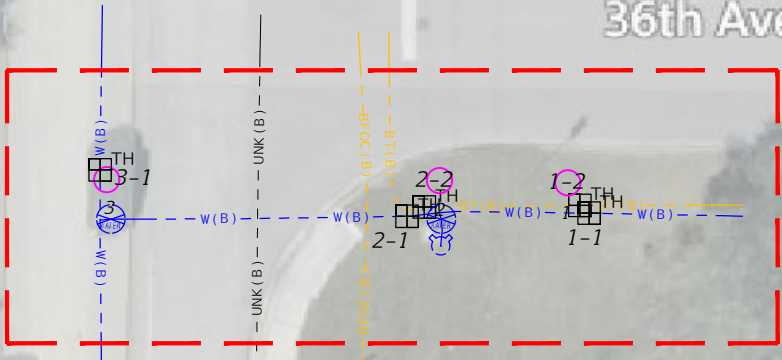
27th Street Ct



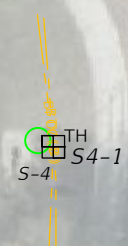
27th St E

36th Ave E

27th Street Ct E

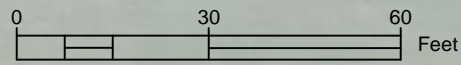


27th St E



27th St E

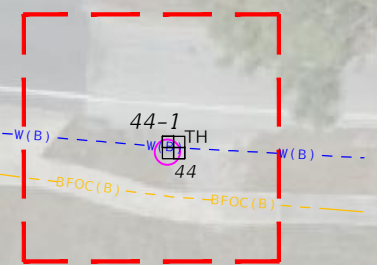
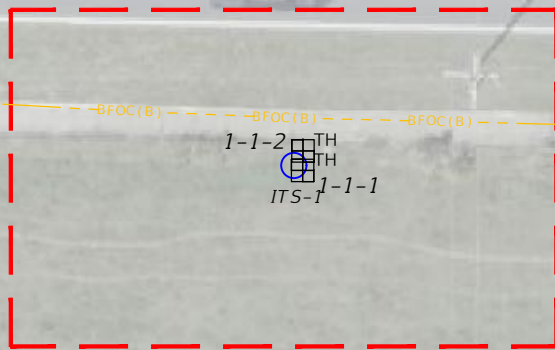
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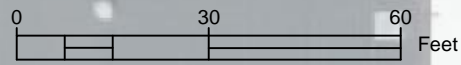


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SHEET 9

26th Ave E

26th Ave E





FOR EXHIBIT PURPOSES ONLY
THIS IS NOT A SURVEY
SHEET 10

