Utilities a Designers Perspective

Originally presented by:
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FDOT District 5

“Every failure is a lesson learned about your strategy.”

Thomas A. Edison

DRIVEWAY
DRIVEWAY
DRIVEWAY
S-6
S-7
S-8
565
MILLING AND RESURFACING LIMITS
+63.85
107.79' (RT)
+76.49
107.79' (RT)
+40.12
107.79' (RT)
CR 22
+00.53
107.79' (RT)
R/W
DEWALK
ECTABLE

DRIVEWA
DRIVEWAY
S-8

S-8

STA 563+29.75 (74.88' LT)
CONST. INLET TYPE D
EXIST. FL 94.1 (AH)
EXIST. FL 94.2 (BK)
INDEX NO. 232

Google

What a designer sees

What the plans show

Closer to reality

30" Dia. & 8' to 9' in the ground

FOR RADIUS
RETURN DATA
PINE ROAD
1 STORY CONC
BLOCK GARAGE
CONCRETE
362
363
364
365
32
31
52'
24'
102° 00' 20" (TC)
N 28° 23' 49" E
S-214
S-215
CONST 2' PAVED SHLD
CONST
MEDIAN
OPENING
FLUME
+74.26
20' RT
68' OF DBL
24" PIPE
60' OF 18" PIPE
STA 362+86.86
STA 31+66.53 ℄
STA 362+21.42 ℄
STA 30+00.00 ℄
B
197.31'
104° 06' 58"

SLOPE ALL LANES OF TEMP PAVT TO THE WEST & PROVIDE TEMP DITCH
DEVICES SPACED @ 15' CENTERS
6" TEMP SOLID WHITE STRIPE
6" TEMP SOLID
STRIPE WITH A/
WI-4
STA 31+68
365
+35.05
10.00' LT
A
TEMP PAVEMENT TO MATCH ADJACENT SLOPE
+83.86
54.00' RT
+28.95
101.36' RT
+04.20
119.98' RT
35' R
(TYP)
ROAD CLOSED
B
30
+63.28
143.87' RT
+69.21

SLOPE ALL LANES OF TEMP PAVT TO THE WEST & PROVIDE TEMP DITCH
DEVICES SPACED @ 15' CENTERS
6" TEMP SOLID WHITE STRIPE
6" TEMP SOLID
STRIPE WITH A/
W1-4
STA 31+68
365
+35.05
10.00' LT
TEMP PAVEMENT TO MATCH ADJACENT SLOPE
+83.86
54.00' RT
+28.95
101.36' RT
+04.20
119.98' RT
35' R
(TYP)
ROAD CLOSED
30
+63.28
143.87' RT
+69.21

8" PVC FM/TO BE REMOVED
OCU/UWHCA
Wh# TI
Wh# 24-16
8" PVC FM/TO REMAIN
OCU/
Wh# 24-15
8" DIP WM/PROPOSED
OCU/
BT/TO REMAIN
AT&T/
R/W LINE
BE 12.47KV 3-PHASE/TO REMAIN
PROGRESS ENERGY DISTRIBUTION/
6" DIP WM/TO BE REMOVED
OCU/UWHCA
OT/TO REMAIN
AT&T/
8" DIP WM/TO BE REMOVED
OCU/UWHCA
OE 12.47KV 3-PHASE/TO REMAIN
PROGRESS ENERGY DISTRIBUTION/
8" DIP WM/TO BE REMOVED
OCU/UWHCA
BT/TO REMAIN
AT&T/
BT/TO REMAIN
AT&T/
BT/TO REMAIN
AT&T/
R/W LINE
F.H./PROPOSED
OCU/UWHCA
STA. 728+00
STA. 735+00
Wh# 24-13
Wh# 24-14
S-1009
COPPER/FIBER COMPOSITE/TO REMAIN
AT&T/
MAST ARM FOUNDATION
℄ CONST.
PEBBLE BEACH BLVD.
24" DIP WM/PROPOSED
OCU/UWHCA
12" HDPE WM/TO BE REMOVED
OCU/UWHCA
8" PVC FM/PROPOSED
OCU/UWHCA
2-2" PVC BFO/TO BE RELOCATED
VERIZON/BY UAO
℄ CONST. & ℄ SURVEY S.R.
12" DIP WM/PROPOSED
OCU/UWHCA
WM/
UNKNOWN UAO/
S-829
S-832
S-901
S-903
12" DIP WM/PROPOSED
OCU/UWHCA
2" WATER SERVICE/PROPOSED
OCU/UWHCA
WM/
UNKNOWN UAO/
24" DIP WM/PROPOSED
OCU/UWHCA
6" DIP WM/TO BE REMOVED
OCU/UWHCA
8" DIP WM/TO BE REMOVED
OCU/UWHCA
12" DIP WM/PROPOSED
OCU/UWHCA
F.H./TO BE REMOVED
OCU/UWHCA
729
730
731
732
733
734
2-2" HDPE BFO/TO BE REMOVED
QWEST/BY UAO
89° 55' 14" E
2-2" PVC BFO/TO BE RELOCATED
VERIZON/BY UAO
WM/TO BE REMOVED
OCU/UWHCA
30" PVC FM/PROPOSED
OCU/UWHCA
F.H./PROPOSED
OCU/UWHCA
16" PVC FM/TO BE REMOVED
OCU/UWHCA
20" DIP WM/TO BE REMOVED
OCU/UWHCA
4" PVC FM/PROPOSED
OCU/UWHCA
2-2" HDPE BFO/TO BE REMOVED
QWEST/BY UAO
30" PVC FM/PROPOSED
OCU/UWHCA
6" DIP WM/PROPOSED
OCU/UWHCA
F.H./TO BE REMOVED
OCU/UWHCA
24" DIP WM/TO BE REMOVED
OCU/UWHCA
℄ CONST.
PEL ST.
8" PVC
FM/PROPOSED
OCU/UWHCA
Wh# U-6
Wh# U-7
S-828
S-830
S-833
S-902
S-904
Wh# TICI
MAST ARM
FOUNDATION
S-855
S-856
S-860
S-861
S-870
BT/TO BE REMOVED
AT&T/BY UAO
F.H./PROPOSED
OCU/UWHCA
MATCH LINE
MATCH LINE
R/W LINE
BFO/TO BE REMOVED
AT&T/BY UAO
Wh# U-3
Wh# U-2
Wh# U-4
Wh# 25-1A
Wh# U-1
Wh# U-5
Wh# 25-1B
2-2" HDPE BFO/PROPOSED
VERIZON/BY UAO
BT/TO BE REMOVED
AT&T/BY UAO
10" PVC WM/TO REMAIN
OCU/
BT/TO REMAIN
AT&T/
BT/PROPOSED
AT&T/BY UAO
8" PVC FM/TO REMAIN
OCU/
PEL ST.
BT/TO REMAIN
AT&T/
BT/TO REMAIN
AT&T/
BT/PROPOSED
AT&T/BY UAO
BTV/TO REMAIN
BRIGHT HOUSE NET./
FM/
UNKNOWN UAO/
6" PVC FM/TO BE REMOVED
OCU/UWHCA
BT/PROPOSED
AT&T/
BT/TO BE REMOVED
AT&T/BY UAO
BFO/TO BE REMOVED
AT&T/BY UAO
OT/TO REMAIN
AT&T/
OE 12.47KV 3-PHASE DOUBLE CIRCUIT/TO REMAIN
PROGRESS ENERGY DISTRIBUTION/
OTV/TO REMAIN
BRIGHT HOUSE NET./
FM/
UNKNOWN UAO/
OT/TO REMAIN
COMCAST/
F.H./TO BE REMOVED
OCU/UWHCA
F.H./TO BE REMOVED
OCU/UWHCA
2-2" HDPE BFO/PROPOSED
QWEST/BY UAO
BT/
UNKNOWN UAO/
2-2" HDPE BFO/PROPOSED
VERIZON/BY UAO
LEGEND:
MILLING & RESURFACING
100.00'
56.00'
4.00'
16.00'
56.00'
100.00'
100.00'
52.00'
4.00'
16.00'
40.00'
100.00'

Feet

BT/TO REMAIN
BT/TO REMAIN
BT/TO REMAIN
R/W LINE
F.H./PROPOSED
/PROPOSED
OCU/UWHCA
WM/TO BE REMOVED
8" DIP WM/TO BE REMOVED
12" DIP WM/PROPOSED
S-903
WATER

R/W LINE
60
55
50
53.16
1:2
1:3
5'
BT
WM
59.22
100
80
60
40
20

R/W LINE
60
55
50
1:2
1:3
5'
BT
WM
59.22
100
80
60
40
20
Not to Scale

R/W ENTRY REQUIRED
554+62.88
86.50' LT
554+87.85
86.50' LT
555+74.37
87.40' LT
555+99.83
87.40' LT
557+61.49
87.50' LT
557+89.51
87.50' LT
558+18.43
87.70' LT
557+97.10
71.50' LT
557+71.33
71.50' LT
R/W LINE
TYPE F
C & G
6' CONC SWK
CONST 270 LF
OF 30" PIPE
S.R. 5 (U.S. 1)
S-810
Vvh 410
Vvh 409
Vvh 408
CONST 384 LF OF 30" PIPE
POT STA 556+65.67
TRAFFIC SEPARATOR
(TYPE I, 8.5' WIDE)
SEE MEDIAN
DETAILS
2.5' R
553
554
555
556
557
558
1314
1315
1316
1317
1318
N 0° 14' 24" E
N 0° 25' 24" E
+16.12
1.00' LT
+69.05
7.00' LT
71.5'
40'
22'
41.5'
52'
+00.00
11.00' LT
+50.00
11.00' RT
+00.00
0.50' RT
+09.53
51.00' RT
SECTION 7
SECTION 8
S-811
OF 18" PIPE
Vvh 407
Vvh 406
PI STA 1316+72.99
CR 2
35' R
+29.56
71.50' RT
553+22.23
71.50' RT
556+98.93
71.50' RT
557+22.93
71.50' RT

554+87.85
86.50' LT
555+74.37
87.40' LT
555+99.83
87.40' LT
12" WOOD PP
#47546840505
S-810
Vvh 410
Vvh 409
Vvh 408
CONC
ASPHALT
CONST 384 LF OF 30" PIPE
+00.00
11.00' LT
555
556

R/W LINE
CONST 30" PIPE
48.78
48.06
2½" BT
12-4" BT DUCT
12" WM
12" WM
12-4" BT DUCT
CONST 18" PIPE

2½" BT
12-4" BT DUCT
12" WM
12" WM
12-4" BT DUCT

CONST 88 LF
OF 42" PIPE
CONST 384 LF
OF 30" PIPE
R/W LINE
TYPE F
C & G
+00.00
61.00' LT
8' CONC SWK
+80.0
61.00' LT
30"DIA CONC
METAL SIGN W/ REFLECTORS
METAL SIGN "ONE WAY"
Vvh 410A
S-8MH2
CONST 84 LF
OF 36" PIPE
S-812
SEE
MEDIAN
DETAILS
TYPE E
C & G
+05.70
7.00' RT
+58.61
1.00' RT
71.5'
52'
559
560

S-BMH2
STA 559+14.32 (56.00' LT)
CONST MANHOLE TYPE J-B (ALT B BOTTOM)(4' X 5')
INDEX NO. 200, 201
TOP EL 47.88
FL 28.9 (AH)
FL 32.0 (BK) 1.4° SKEW ANGLE
FL 28.9 (LT)
R/W LINE
12" WM
12" WM
4" BT DUCT
CONST 42" PIPE

CONST 88 LF
OF 42" PIPE
CONST 384 LF
OF 30" PIPE
R/W LINE
TYPE F
C & G
+00.00
61.00' LT
8' CONC SWK
+80.0
61.00' LT
30"DIA CONC
METAL SIGN W/ REFLECTOR
METAL SIGN "ONE WAY"
Vvh 410A
S-8MH2
CONST 84 LF
OF 36" PIPE
S-812
SEE
MEDIAN
DETAILS
TYPE E
C & G
71.5'
52'
+58.61
1.00' RT
+05.70
7.00' RT
559
560

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Completing FLORIDA'S STREETS