MANATEE COUNTY GOVERNMENT
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES

1022 26th Avenue East
Bradenton, FL 34208

FORCE MAIN 27-A FROM 51ST ST. W. TO THE SWWRF

PLAN & PROFILE

STA: 2+07 5' R, INSTALL:
1–20"X18" TEE
1–20" GATE VALVE
1–20" PLUG
1–18" GATE VALVE, (NC)

2–2" HDPE DR 11 ASTM F2160 ELECTRICAL CONDUITS TO LIFT STATION PANEL. SEE SHEET 20

FUT. 20" FM, METER & VAULT, BY OTHERS, SEE DETAIL SHEET 19

STA: 2+22 56' R, INSTALL:
1–18" RESTRAINED DI PLUG &
45'± OF 18" DIP INTERCONNECT, ALL RJ

STA: 86+01 36' R INSTALL: 2–45° BENDS

STA: 86+18 36' R INSTALL: ARV IN MH

FUT. 10" SD BY OTHERS

RELOC. GAS LINE (BY OTHERS) IF REQD.

STA: 87+19 35' R INSTALL:1–24" BFV

STA: 88+09 REPLACE LEAKING 24" BFV TO ALLOW SHUT OFF & CONNECT TO EX. ROW MAIN

INSTALL ARV IN MH

RELOCATE 8" WM W/ 45° F.E. OF DIP & 45° BENDS OF ALL RJ

STA: 3+41 3'R
INSTALL: 1–42"X18" TEE
1–18" GV,
1–18"X8" REDUCER, BENDS AS REQD,
& 95' CL350 DIP

BASE & RESURFACE TYPE 1 SOUTH OF THIS LINE, 65th ST. W, TYPE 2

3+68 3'R
INSTALL: 1–42"ø GV
1–DEADMAN THRUST BLOCK TO RESTRAIN PROP. PLUG VALVE,
ORDER DIP WITH WELDED THRUS COLLAR FOR BLOCK

REGRADE ROW TO DRAIN TO EX. INLET

3+94 54'R
INSTALL:
1–20"X18" TAP VALVE &
1–18" 90° BEND

IRC 15.22' STA: 92+13.71 98.58 L
(53RD SURVEY BASELINE)

LINE STOP, TYP.

DEADMAN THRUST BLOCK, TYP.

CONTRACTOR SHALL PROVIDE A MIN. OF 2 LANES SMOOTH DUSTLESS ACCESS ROAD TO GOLF COURSE AT ALL TIMES.

PID 5182410109
(ORB 642 PAGE 105)

10 0 10 20
SCALE IN FEET

INSTALL MIN. 12' WIDE TEMP ROAD DURING CONSTRUCTION ALONG 65TH ST W TO MAINTAIN PLANT & GOLF COURSE ACCESS FOR SEMI–TRAILER SIZE TRUCKS. MIN 8" OPTIONAL BASE GROUP 6. RESTORE ALL DISTURBED AREA WITH HYDROSEEDING PER FDOT SPECS.

GRADE TO PROVIDE DRAINAGE TO PROP. INLET

SEE ROADWAY PLANS FOR PORPOSED EDGE OF PAVEMENT ALIGNMENT & GRADES FOR 65TH STREET WEST, SOUTH OF STA: 6+40 .

MAY NOT BE PRESENT

REPLACE FULL WIDTH OF 65TH ST. W. PAVEMENT WITH 2.5" MIN ASPHALT ON 8" OPTIONAL BASE GROUP 6 (FDOT) & 12" SUBASE LBR 60' (BASE & RESURFACE TYPE 2)

65TH STREET WEST

MANATEE COUNTY GOLF COURSE

PID 5182410208

APPROXIMATE PARCEL BOUNDARY

EXISTING SHRUB LINE

GOLF COURSE ENTRANCE ASPHALT DRIVEWAY

20" DIP LONG BOAT KEY FORCE MAIN

EXISTING 20" CAST IRON, LONG BOAT KEY FORCE MAIN

16" RCW (TREATED EFFLUENT) LINE

19"x30" RCP

30" DIP MARS LINE

8" PVC WM

CHAINLINK FENCE

TRANSFORMER ON CONC. PAD

CONC. PAD

65TH ST. W.

87+00

88+00

2+00

3+00

4+00

6+00

7+00

MATCH LINE STA: 7+20

LONG BOAT KEY 18" DUCTILE IRON PIPE FORCE MAIN BYPASS

FUTURE METER VAULT & ARV FOR FUTURE LBK FM

PROP. ARV IN MH ON LBK FM, APPROX. F.G. 17.15'

RELOC ARV FOR 24" RCWM

PROP. ARV FOR 8" WM

FUTURE ROAD WIDENING

FUTURE 10" DRAINAGE PIPE NOT PART OF UTILITY WORK

FUTURE GRADE

FUTURE R/W

EXIST. R/W

CONST. ℄

PROP. ℄

53rd AVE. W.

EX. ℄

EXIST. R/W

EX. ASPHALT

EX. ASPHALT 65TH STREET WEST ENTRACE TO SWWRF AND MANATEE COUNTY GOLF COURSE

65th STREET WEST

APPROX. LOC. EX. 16" RCW. MAIN ASSUMED DEPTH 36" BELOW GRADE AT STA: 87+30 11.5' R CROSSING OF FUTURE LBK FM

EXISTING GRADE 65TH STREET ℄

INSTALL 18"ø D.I. TEMP. BYPASS OF LBK FM, RESTRAIN ALL JOINTS

PROP. 8" WM RELOCATION

ABANDONED 10" PVC RCW MAIN APPROX. LOC., DEPTH UNKNOWN CONTRACTOR TO REMOVE AS NECCESARY FOR CONSTRUCTION.

EX. VERIZ. CON.

EX. 18" DIP WATERMAIN@ STA: 87+08 52' R T.O.P. EL. 11.79

ABANDONED 15" PVC RCW MAIN APPROX. LOC., DEPTH UNKNOWN (SHOWN AT EST. DEPTH 3'BELOW GRADE. IN CONFLICT W/EX. STORM DRAWN) CONTRACTOR TO REMOVE AS NECCESARY FOR CONSTRUCTION.

EX. ATMS

EX. 19"X30" RCP STORM SEWER TO BE EXTENDED SOUTH BY ROAD PROJECT AT ELEVATION SHOWN.

EX. 6" WM

EX. VERIZON CONDUIT SYSTEMT

ABANDONED 15" PVC RCW MAIN APPROX. LOC., DEPTH UNKNOWN (SHOWN AT EST. DEPTH 3'BELOW GRADE. IN CONFLICT W/EX. STORM DRAWN) CONTRACTOR TO REMOVE AS NECCESARY FOR CONSTRUCTION.

45° TYP.

12" MIN CLR

CONNECT 18"ø D.I. TEMP LBK BYPASS TO EX. LBK FMW 18" TAPPING VALVE

CONNECT TO EX. 8" AC (TRANSITE) WM WITH HYMAX COUPLING

EX. 8" AC WM

APPROX. LOC. EX. 20" LBK FM

SUGGESTED LOCATION FOR PROP. THRUST BLOCK ON LBK FM, AS REQD. FOR LINE STOP

PROP. 20" LINE STOP IN EXISTING LBK FM

PROP. 20" FM DIP STUB FOR FUTURE LBK FM CONNECTION

SUGGESTED LOCATION FOR PROP. THRUST BLOCK ON LBK FM

CONNECT 18"ø D.I. TEMP LBK BYPASS TO EX. LBK FM

EX. GAS MAIN DIA.& DEPTH TO BE CONFIRMED, TO BE RELOCATED TO CLEAR FM (BY OTHERS) IF REQD.

PROP. 20" LINE STOP IN EXISTING LBK FM

EX. 18" DIP WATERMAIN@ V V V H #4 T.O.P. EL. 7.43 STA: 87+31 32' R

CONNECT TO EX. 8" WM

6" MIN TO BOT. OF PROP. 20" FM

12" MIN. TO TOP OF PROP. 20" FM

INSTALL 42"ø GV

INSTALL 42"ø CL350 D.I. FM

8" CL350 DIP

EX. 8" EL.CON FM

PROP. 20"ø D.I. LBK FM RELOCATION

12" MIN CLR. PROP 8" WM TO PROP 24" RCW

EX. 24" RCW. MAIN (2006)@ V V H #2 T.O.P. STA: 87+30

EX. 24" RCW. MAIN (1990) AT PROP. LBK CROSSING.

PROP 24" RCW RELOCATION

INV. 7.10 42" FM

INSTALL 42"ø CL350 D.I. FM

65TH STREET WEST BASELINE

2+00 3+00 4+00 5+00 6+00 7+00

NOTES:

1. PROVIDE RESTRAINTS AND/OR THRUST BLOCKS ON EX. 20" LBK FM & 8" WM, AND OTHER PIPING AS NECESSARY FOR CONSTRUCTION TO AVOID BLOW OUTS.

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	406–6082980
SURVEY #	3825
SEC./TWN./RGE	16,17,18/35/17
VERT. SCALE	1"=2'
HORZ. SCALE	1"=20'

	BY	DATE
SURVEYED	LSF/HYATT	2001/2012
DESIGNED	LSF/JS	2002/2013
DRAWN	BLR	03/2013
CHECKED	JS	03/2013

JAMES STOCKWELL, P.E.
FLORIDA REGISTRATION NO. 67198
PROFESSIONAL ENGINEER
STATE OF FLORIDA
JAMES DAVID STOCKWELL
Signature & Seal

SHEET 11 OF 27

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S:\PWD_Engineering_Shore\Util Eng Design\PROJ\~SAN SWR Proj\FM-53rd Ave W\DWGS\FM 27-A.dwg,13, 9/25/2014 9:12 AM Bruce Robertson, 1:1, ANSI full bleed D (34.00 x 22.00 Inches)