# **BASIN V STORMWATER MANAGEMENT GROUP II DRAINAGE IMPROVEMENTS** STORMWATER E.R.P. PLANS - AS-BUILT CONDITIONS IMPROVEMENTS 7D, 10E, 11F

# PREPARED BY

#### **ENGINEERING:**



**GULFSHORE ENGINEERING, INC.** 2375 TAMIAMI TRAIL NORTH

**SUITE 207** 

**NAPLES, FL 34103** TEL: (239) 261-2290 FAX: (239) 261-6530

Stanley Consultants INC.

STANLEY CONSULTANTS, INC. **27300 RIVERVIEW CENTER BOULEVARD** 

**SUITE 101** 

**BONITA SPRINGS, FL 34134** PHONE: 239.947.1771

FAX: 239.947.1715

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

**SURVEYOR:** 

CHARLES TOLTON & ASSOCIATES, INC. 2887 TAMIAMI TRAIL EAST. SUITE 5

**NAPLES, FLORIDA 34112** 

TEL: (239) 793-6633; FAX: (239) 793-3905

# **PREPARED FOR**



# **CITY OF NAPLES**

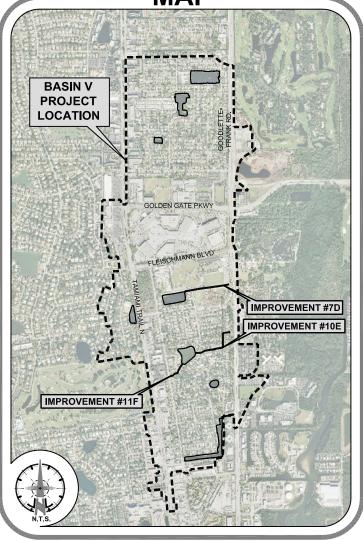
295 RIVERSIDE CIRCLE. NAPLES, FLORIDA 34102

# **LOCATION**

**SECTION 33, TOWNSHIP 49 SOUTH, RANGE 25 EAST, COLLIER COUNTY, FLORIDA** 

# **PROJECT** LOCATION

# **LOCATION** MAP



SHORI

# STORMWATER MENT DRAINAGE

SCALE-HORIZ. CALE-VERT.: GEI PROJECT No.:

**CS** (1)

THESE PLANS ARE OPTIMIZED FOR VIEWING ON 11"X 17" (TABLOID) FORMAT.

2301 MCGREGOR BLVD. FORT MYERS, FLORIDA 33901

TEL: (239) 338-2929 FAX: (239) 338-2936

USERS ARE CAUTIONED THAT THEY MAY HAVE BEEN MODIFIED IN SIZE DURING REPRODUCTION!! PRIOR TO OBTAINING SCALED DATA, PLEASE VERIFY ALL NOTED INDEX SCALES AGAINST THE GRAPHIC SCALES SHOWN ON INDIVIDUAL PLAN SHEETS.

**REGULATORY AGENCY**—

NOTE: THESE CONSTRUCTION PLANS WERE PREPARED AS PART OF THE CONTRACT DOCUMENTS FOR THE REFERENCED PROJECT. TECHNICAL SPECIFICATIONS AND ANY ADDITIONAL SUPPLEMENTS TO THE CONTRACT DOCUMENTS SHOULD BE REVIEWED FOR MATERIAL CONSTRUCTION. TESTING AND PERMIT



INVESTIGATE BEFORE YOU EXCAVATE CALL SUNSHINE STATE ONE 1-800-432-4770 FL. STATUTE 553.851 (1979) REQUIRES MIN. 2 DAYS AND MAX. OF 5 DAYS NOTICE BEFORE YOU EXCAVATE

CONTRACTOR NOTE!

#### CONTRACTOR NOTE!

THESE DRAWINGS ARE NOT APPROVED FOR **CONSTRUCTION UNLESS** THEY BEAR OFFICIAL STAMPED APPROVAL FROM AGENCY AND ENGINEERS SIGNATURE AND SEAL **AFFIXED HEREON** 

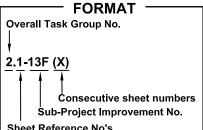
# **BASIN V STORMWATER MANAGEMENT GROUP II DRAINAGE IMPROVEMENTS** STORMWATER E.R.P. PLANS - AS-BUILT CONDITIONS IMPROVEMENTS 7D, 10E, 11F

NO.	SHEET TITLE
CS (1)	COVER SHEET
CS (2)	INDEX SHEET
CS (3)	OVERALL BASIN V EXHIBIT

IMPROVEMENT ID. #7D					
2.1-7D (1)	LIMITS & DRY RETENTION				
2.2-7D (2)	STORM DRAIN & PIPE PLAN				
2.2-7D (3)	STORM DRAIN & PIPE PLAN				
2.2-7D (4)	STORM DRAIN & PIPE PLAN				
2.2-7D (5)	STORM DRAIN & PIPE PLAN				
2.2-7D (6)	CONTROL STRUCTURE DETAIL				

IMPROVEMENT ID. #10E					
2.1-10E (1)	LIMITS & DRY RETENTION				
2.1-10E (2)	LIMITS & DRY RETENTION				
2.2-10E (3)	STORM DRAIN & PIPE PLAN				
2.2-10E (4)	STORM DRAIN & PIPE PLAN				
2.2-10E (5)	STORM DRAIN & PIPE PLAN				
2.2-10E (6)	CONTROL STRUCTURE DETAIL				

IMPROVEMENT ID. #11F					
2.1-11F (1)	LIMITS & DRY RETENTION				
2.1-11F (2)	LIMITS & DRY RETENTION				
2.1-11F (3)	LIMITS & DRY RETENTION				
2.2-11F (4)	STORM DRAIN & PIPE PLAN				
2.2-11F (5)	STORM DRAIN & PIPE PLAN				
2.2-11F (6)	STORM DRAIN & PIPE PLAN				



**PLAN LABELLING** 

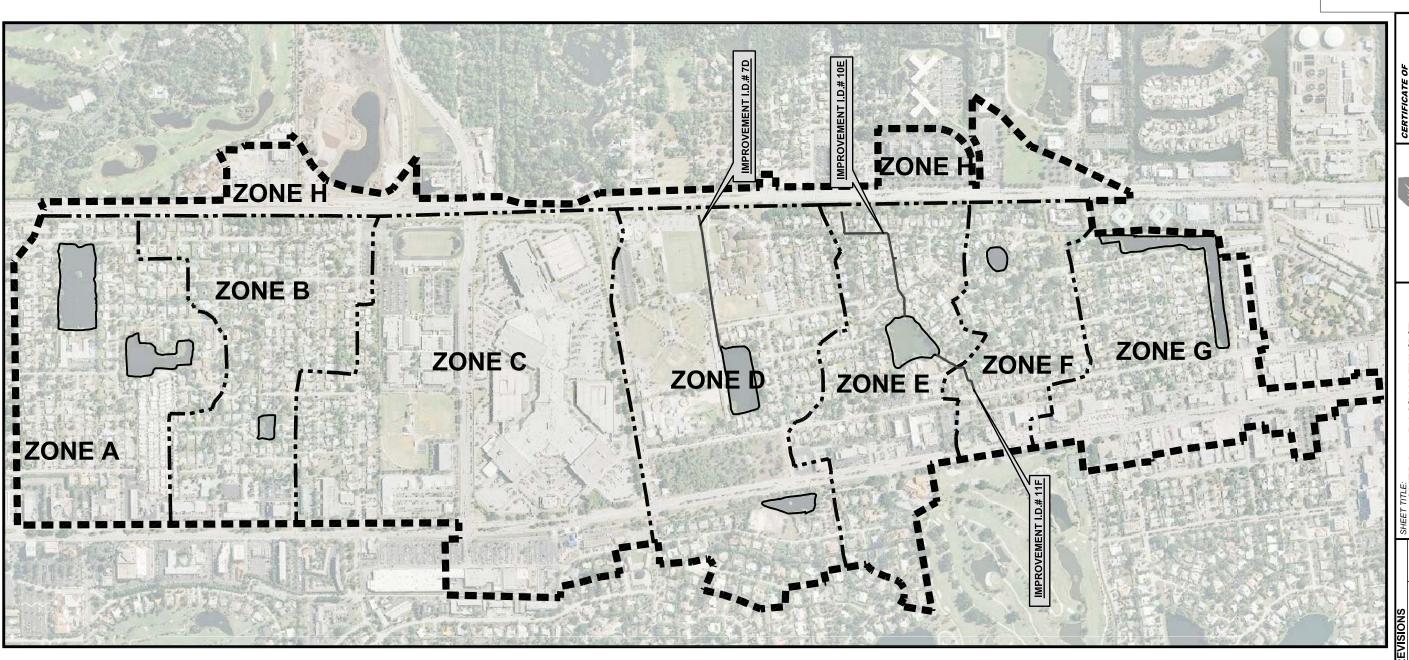
Sheet Reference No's.

1- Retention areas/ Aerial overlay sheet 2- Storm drainage infrastructure sheet

5- Typical construction details sheet

SCALE-VERT.: GEI PROJECT No.:

**CS (2)** 



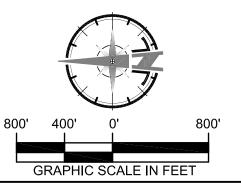


# <u>LEGEND</u>

BASIN V DRAINAGE BASIN BOUNDARY

DRAINAGE ZONE (SUB-BASIN) BOUNDARY

EXISTING CULVERT TRUNK LINES



2375 Tamiami Trail N., Suite 207 NC. Naples, FL 34103 TEL. No: (239) 261-2290

GULFSHORE ENGINEERING, INC.

ANS - AS-BUILT

GULFS

WWATER

ENGINEE

PLANSET TITLE:
STORMWATER E.R.P. PLANS - AS
PROJECT NAME:
BASIN V STORMWATE
MANAGEMENT DRAINA
IMPROVEMENTS

REVISIONS

SWEAT ON:

DESCRIPTION:

DESCRIPTION:

DESCRIPTION:

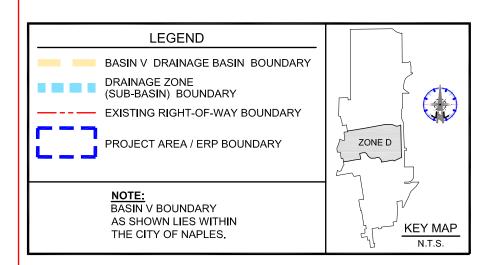
DATE

TYPE

TY

DESIGN: J.N
DRAWN: C
SCALE-HORIZ: AS SHON
GEI PROJECT No.: 25

CS (3)



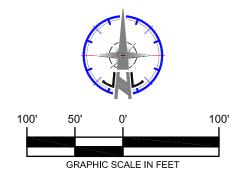
LAND USE TABLE											
LIMITS OF CONSTRUCTION / PROJECT AREA 2.519 ac											
	LAND DESCRIPTION				WATER MANAGEMENT						
	AREA	PAVEMENT	LAKES / WET	GREEN	CLASSIFICATION						
LAND USES	(ac)	(ac)	(ac)	(ac)	PERVIOUS	IMPERVIOUS					
ROADWAYS, DRIVEWAYS & SIDEWALKS	0.693	0.693	0	0	0	0.693					
BALANCE OF OPEN SPACE	1.826	0	0	1.826	1.826	0					
SUBTOTAL >>>	2.519	0.693	0	1.826	1.826	0.693					
PERCENTAGE OF TOTAL >>>	100%	27.5%	0%	72.5%	72.5%	27.5%					

# **ZONE D IMPROVEMENT I.D. #7D**

"AS-BUILT PLANS"

DATE: MAY 11, 2012

ALL "AS-BUILT" INFORMATION WAS PROVIDED BY THE CONTRACTORS AS PER SURVEY DATA BY CHARLES TOLTON & ASSOCIATES, INC. ACAD FILES: GR II - 7D-10E-11F - STORM DRAIN & PIPE PLAN - 2011-06-27.DWG.



GULFSHORE ENGINEERING, INC.

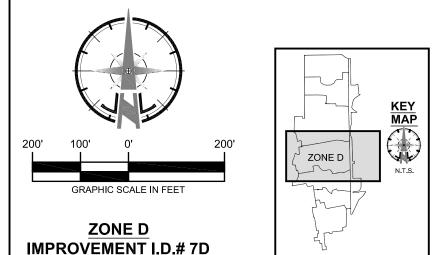
ÿ**⊲** DESIGN: DRAWN:

SCALE-HORIZ.: AS SHOWN SCALE-VERT.: AS SHOWN GEI PROJECT No.:

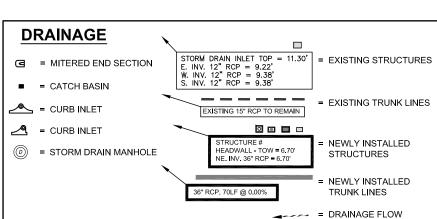
2.1-7D (1)



## ATTACHMENT A - BasinV Improvements As-Built-ERP-2011-0511



# LEGEND



## WATER

- WM = WATER METER
- = WATER VALVE
- ♣ = FIRE HYDRANT

  FIRE HY
- = BACKFLOW VALVE
- = BLOWOFF VALVE
- = FIRE CONTROL VALVE
- = GAS VALVE
- = IRRIGATION CONTROL VALVE
- = MONITORING WELL

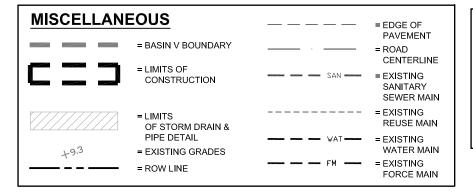
#### NOTES:

1. BASIN V BOUNDARY SHOWN LIES WITHIN CITY OF NAPLES.
2. ALL ELEVATIONS SHOWN HEREON ARE GIVEN IN NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD '29)

## "AS-BUILT PLANS"

DATE: MAY 11, 2012

ALL "AS-BUILT" INFORMATION WAS PROVIDED BY THE CONTRACTORS AS PER SURVEY DATA BY CHARLES TOLTON & ASSOCIATES, INC. ACAD FILES: GR II - 7D-10E-11F - STORM DRAIN & PIPE PLAN - 2011-06-27.DWG.



#### **SEWER**

- sv = SANITARY SEWER VALVE
- s = SANITARY SEWER MANHOLE
- = CLEANOUT
- GREASE TRAP

#### **ELECTRIC**

- = CABLE TELEVISION PEDESTAL
- = TELEPHONE BOX
- = POWER METER
- = POWER MANHOLE
- ESB = ELECTRIC SERVICE BOX
- B = BURIED CABLE
- **ാ** = WOODEN POWER POLE
- = CONCRETE POWER POLE
- -() = POWER SERVICE POLE
- → = GUY ANCHOR
- = TRANSFORMER PAD
- PUB = POWER JUNCTION BOX
- TSCB = TRAFFIC SIGNAL CONTROL BOX
- = TRAFFIC SIGNAL CONTROL CABINET
- = CONCRETE TELEPHONE POLE
- -⑦- = WOOD TELEPHONE POLE
- = WELL

GULFSHORE: ENGINEERING, INC.

SHEET TITLE:
STORM DRAIN & PIPE PLAN

PLANSET TITLE:
STORMWATER E.R.P. PLANS - AS-BUILT
BASIN V STORMWATER
BASIN V STORMWATER
MANAGEMENT DRAINAGE
IMPROVEMENTS

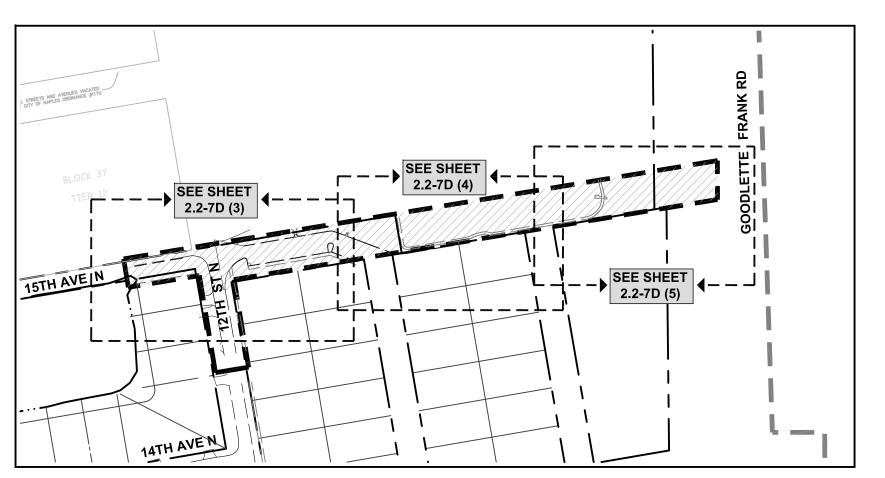
NO: DESCRIPTION: DAT

DESIGN: J.N.L.
DRAWN: C.M.
SCALE-HORIZ.: AS SHOWN
SCALE-VERT.: AS SHOWN

GEI PROJECT No.: SHEET NO.

2.2-7D (2)

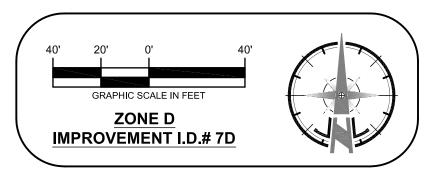
253



# "AS-BUILT PLANS"

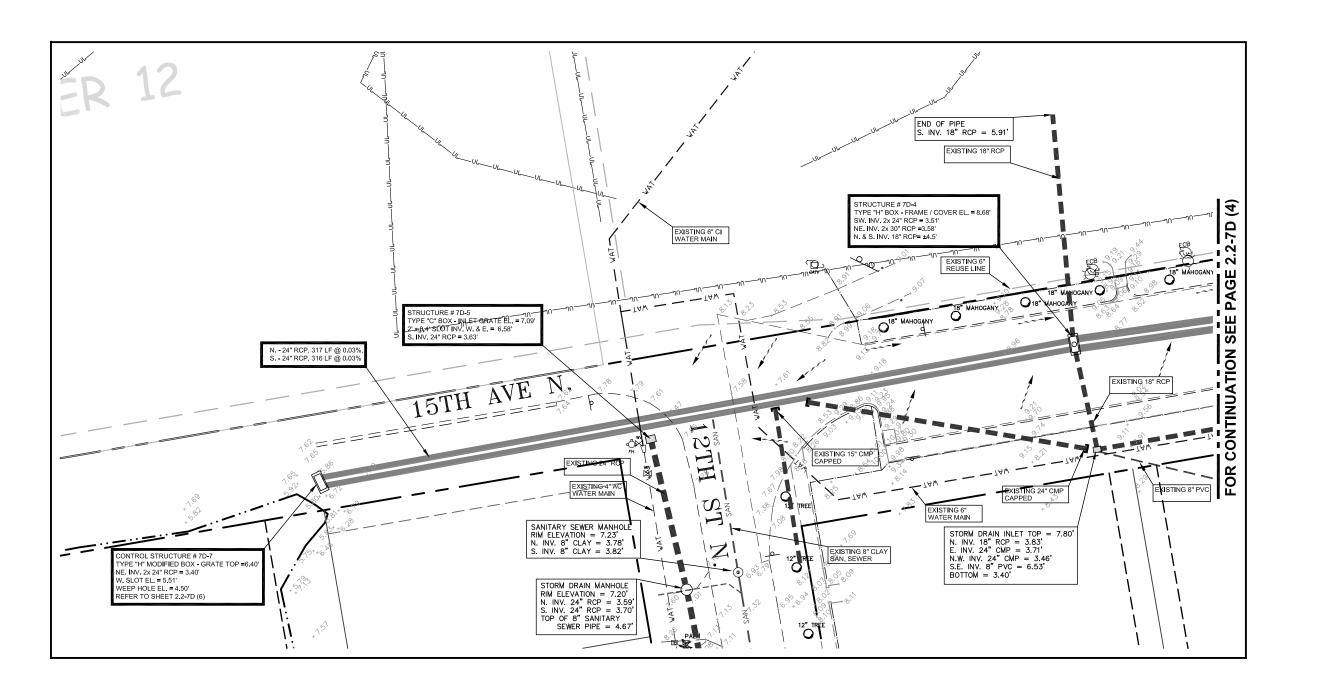
DATE: MAY 11, 2012

ALL "AS-BUILT" INFORMATION WAS PROVIDED BY THE CONTRACTORS AS PER SURVEY DATA BY CHARLES TOLTON & ASSOCIATES, INC. ACAD FILES: GR II - 7D-10E-11F - STORM DRAIN & PIPE PLAN - 2011-06-27.DWG.



NOTE:

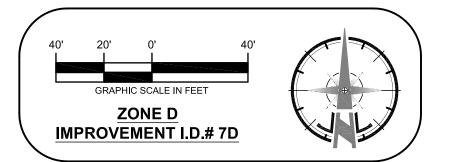
WATER LEVEL VARIES. LAKE CONTROL ELEVATION = 4.70' NGVD



ENGINEERING, INC. GULFSHORE PLANSET TITLE:
STORMWATER E.R.P. PLANS - AS-BUILT
PROJECT NAME: STORM DRAIN & PIPE PLAN BASIN V STORMWATER
MANAGEMENT DRAINAGE
IMPROVEMENTS ÿ◀ J.N.L DRAWN: C.M SCALE-HORIZ. AS SHOWN SCALE-VERT.: AS SHOWN 253 GEI PROJECT No.:

SHEET NO.

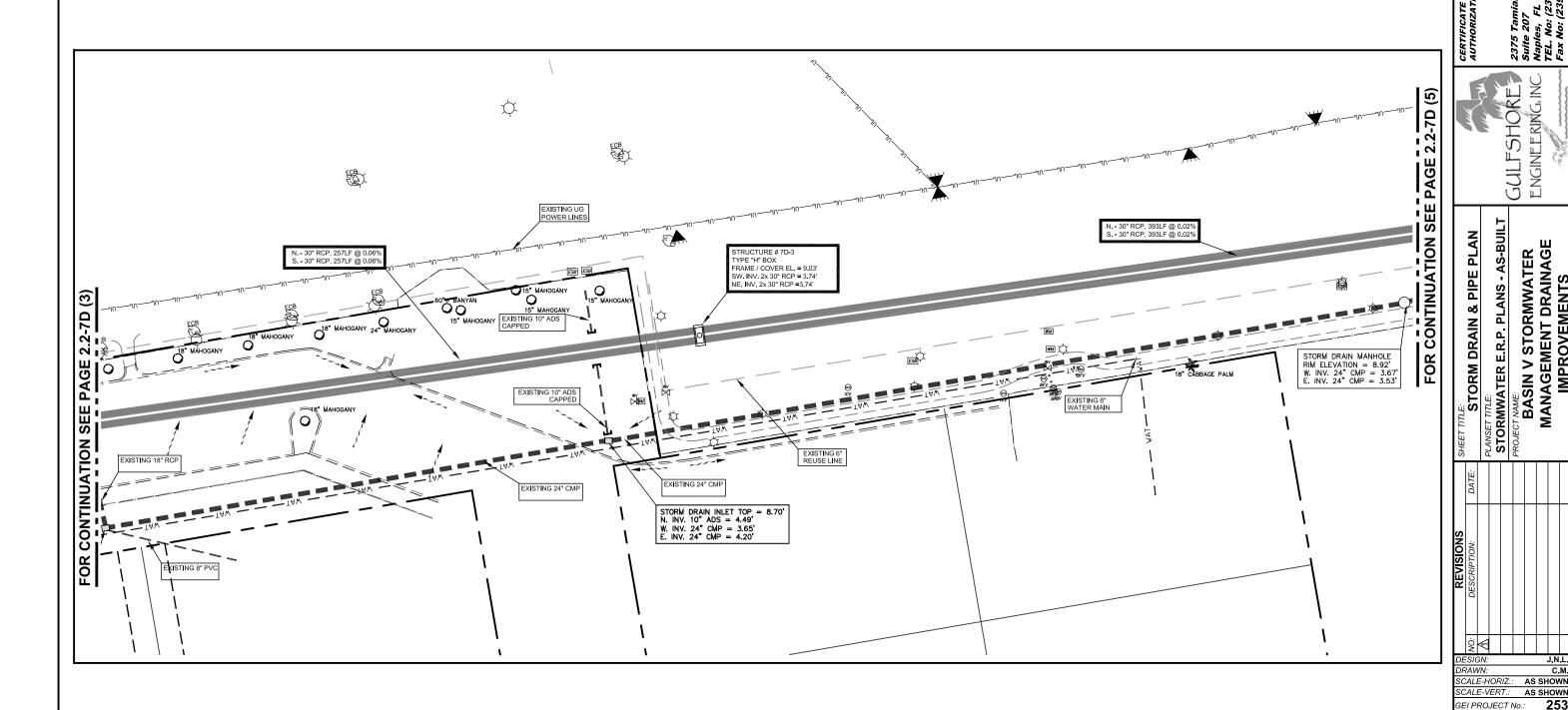
2.2-7D (3)



# "AS-BUILT PLANS"

DATE: MAY 11, 2012

ALL "AS-BUILT" INFORMATION WAS PROVIDED BY THE CONTRACTORS AS PER SURVEY DATA BY CHARLES TOLTON & ASSOCIATES, INC. ACAD FILES: GR II -7D-10E-11F - STORM DRAIN & PIPE PLAN - 2011-06-27 DWG.



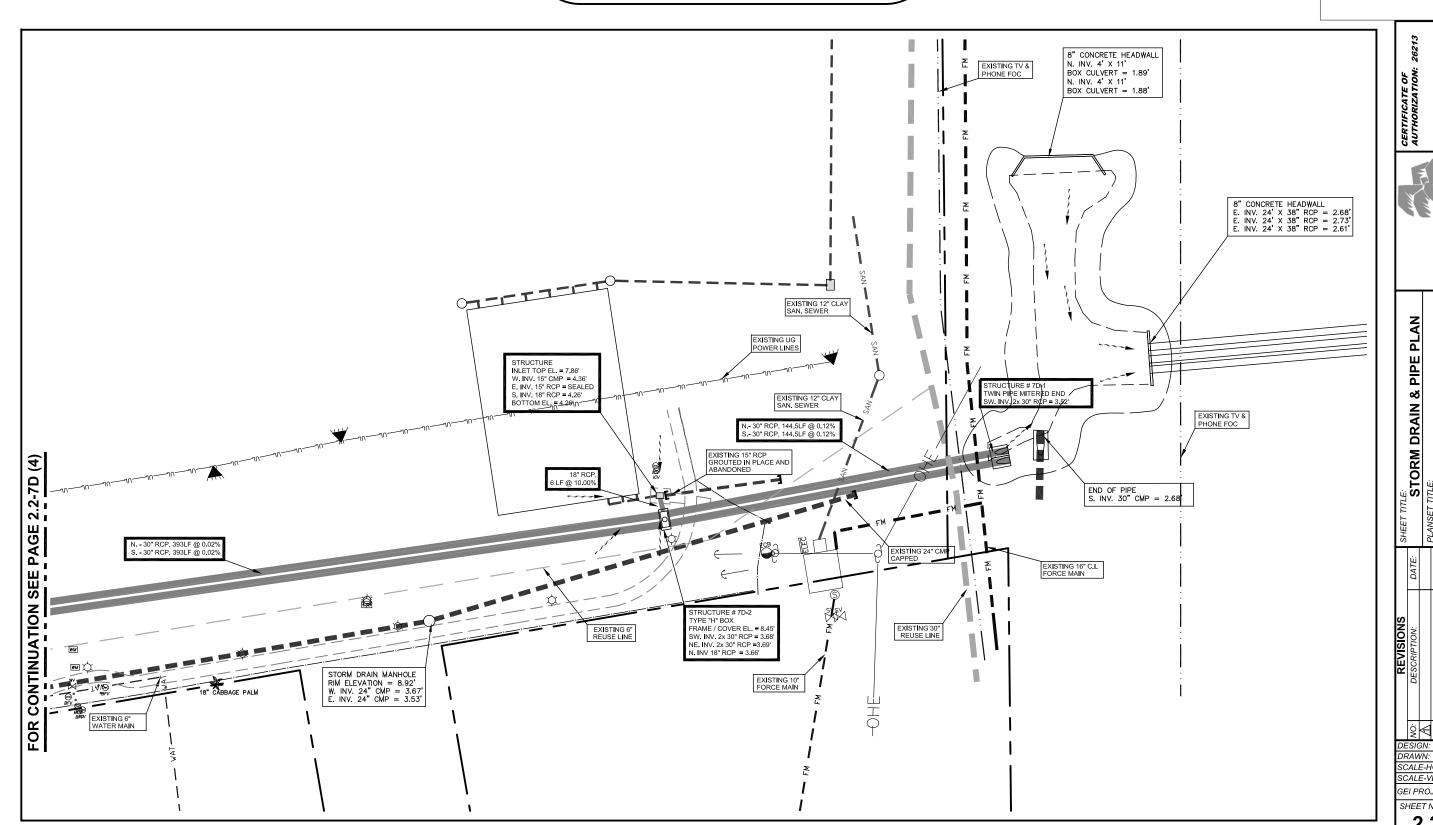
ENGINEERING, INC. BASIN V STORMWATER
MANAGEMENT DRAINAGE
IMPROVEMENTS C.M 253

SHEET NO.

2.2-7D (4)

## "AS-BUILT PLANS"

DATE: MAY 11, 2012
ALL "AS-BUILT" INFORMATION WAS PROVIDED BY THE CONTRACTORS AS PER SURVEY DATA BY CHARLES TOLTON & ASSOCIATES, INC. ACAD FILES: GR II - 7D-10E-11F - STORM DRAIN & PIPE PLAN - 2011-06-27.DWG.



ENGINEERING, INC. GULFSHÖRE

BASIN V STORMWATER MANAGEMENT DRAINAGE IMPROVEMENTS

PLANSET TITLE:
STORMWATER E.R.P. PLANS - AS-BUILT
ROJECT NAME:

ÿ₩ AS SHOWN

J.N.L

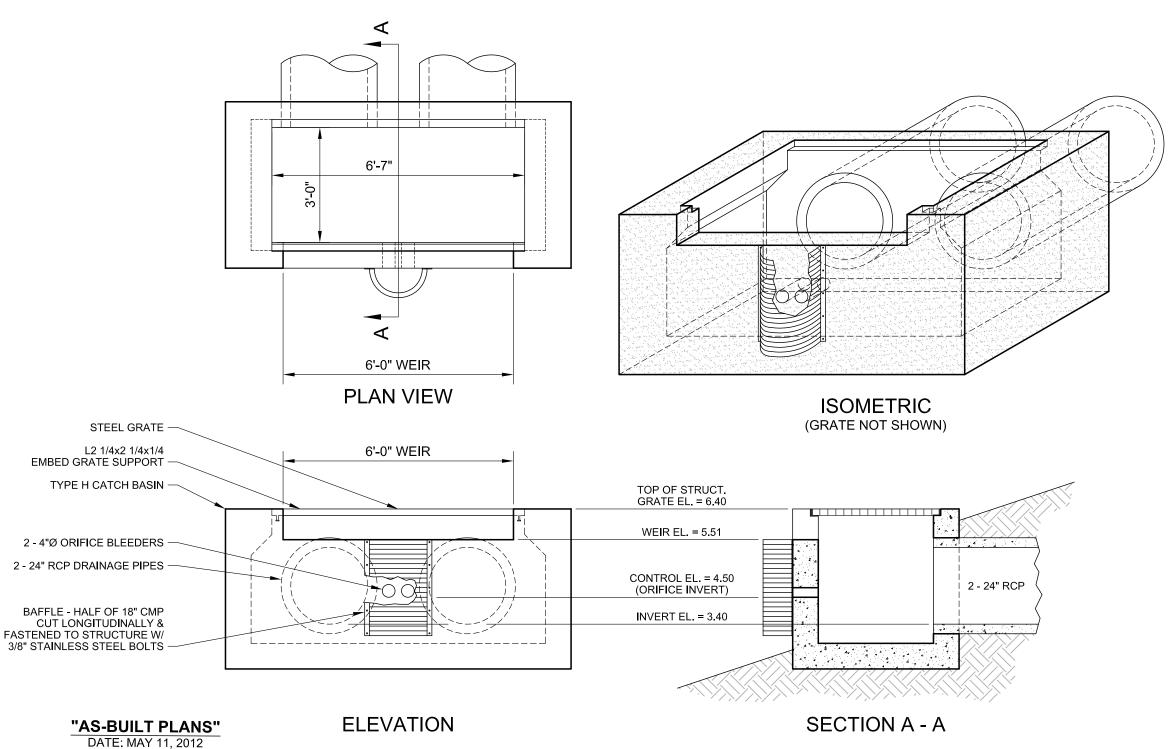
C.M

253

DRAWN: SCALE-VERT.: GEI PROJECT No.:

SHEET NO.

2.2-7D (5)



ALL "AS-BUILT" INFORMATION WAS PROVIDED BY THE CONTRACTORS AS PER SURVEY DATA BY CHARLES TOLTON & ASSOCIATES, INC. ACAD FILES: GR II - 7D-10E-11F - STORM DRAIN & PIPE PLAN - 2011-06-27.DWG.

CONTROL STRUCTURE #7D-7

NOT TO SCALE (MODIFIED TYPE H STRUCTURE - REF. FDOT INDEX #232)

ENGINEERING, INC GULFSHORE STORMWATER E.R.P. PLANS - AS-BUILT CONTROL STRUCTURE DETAIL BASIN V STORMWATER
MANAGEMENT DRAINAGE
IMPROVEMENTS AS SHOWN SCALE-VERT.: AS SHOWN

253

GEI PROJECT No.:

2.2-7D (6)