CONSTRUCTION PLANS FOR

NORTH ESTERO BOULEVARD DRAINAGE IMPROVEMENT PROJECT FORT MYERS BEACH

SECTION 24, TOWNSHIP 46, RANGE 24 EAST

LEE COUNTY, FLORIDA

LIST OF UTILITY SERVICE AREAS:

POWER
FLORIDA POWER AND LIGHT
15834 WINKLER ROAD
FORT MYERS, FLORIDA 33908
(239) 415-1302

WATER
TOWN OF FORT MYERS BEACH
2523 ESTERO BOULEVARD
FORT MYERS BEACH, FLORIDA 33931
(239) 765-0202

SEWER
LEE COUNTY UTILITIES
1500 MONROE STREET
FORT MYERS, FLORIDA 33906
(239) 533-8181

NATURAL GAS
TECO / PEOPLES GAS
5901 ENTERPRISE PARKWAY
FORT MYERS, FLORIDA 33905
(239) 690-5507

TELEPHONE
EMBARQ / UNITED TELEPHONE-FLORIDA
P. O. BOX 370
FORT MYERS, FLORIDA 33901
(239) 336-2011

CABLE
COMCAST CABLE
1418 SE 10TH STREET
CAPE CORAL, FLORIDA 33990
(239) 574-2020

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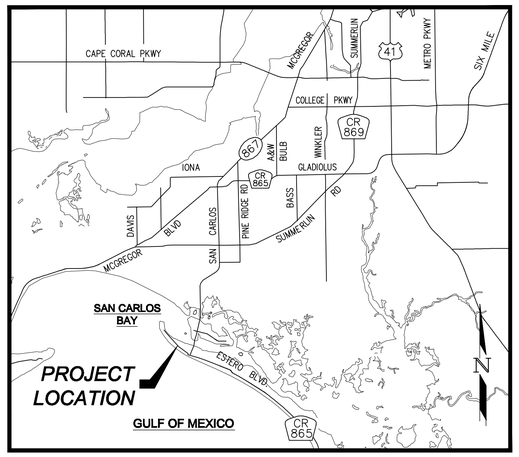

PROJECT LOCATION MAP

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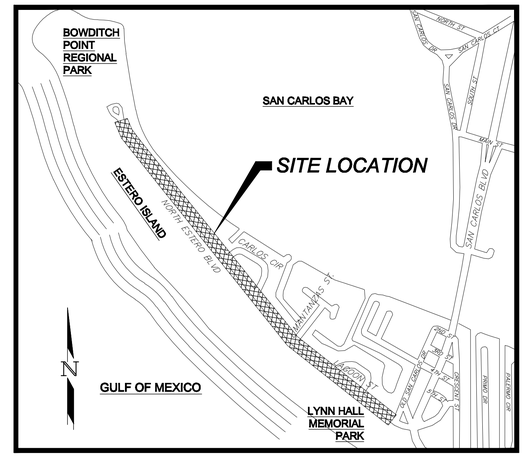

PROJECT SITE MAP

NOT TO SCALE

NORTH ESTERO BOULEVARD
DRAINAGE IMPROVEMENT PROJECT
PROJECT NO. 05-0722

PREPARED FOR

FORT MYERS BEACH
TOWN COUNCIL

DENNIS C. BOBACK, MAYOR
LARRY KIKER, VICE MAYOR
HERB ACKEN, COUNCILMAN
BILL SHENKO, JR. COUNCILMAN
CHARLES MEADOR, JR., COUNCILMAN

DEPARTMENT OF PUBLIC WORKS
JACK GREEN, PUBLIC WORKS DIRECTOR
2523 ESTERO BOULEVARD
FORT MYERS BEACH, FLORIDA-33931
TELEPHONE (239) 765-0202 & FAX (239) 765-0909

THIS IS TO CERTIFY THAT THESE PLANS AND THE ASSOCIATED CONSTRUCTION PROJECT ARE IN SUBSTANTIAL COMPLIANCE WITH THE TOWN OF FORT MYERS BEACH LAND DEVELOPMENT CODE WITH THE EXCEPTION OF ANY DEVIATIONS WHICH HAVE BEEN APPROVED BY THE DIRECTOR OF PUBLIC WORKS.

Deviations: None

Florida P.E. #: 45200

Engineer Signature **Date**

Development Order Approved:
Public Works Administration

Director of Public Works **Date**

REVISIONS

NO.	DATE	REVISION	BY	APPROVED

PREPARED BY:

ECT

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RONALD M. EDENFIELD, P.E. DATE
FLORIDA P.E. No. 45200

THESE DRAWINGS ARE NOT APPROVED FOR CONSTRUCTION UNLESS ORIGINALLY SIGNED AND SEALED.

SHEET NUMBER
C-01

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ABBREVIATIONS:

A	ACRE
ALT.	ALTERNATE
APPROX.	APPROXIMATE
ASB	ASBESTOS
B.M.	BENCH MARK
C.B.	CATCH BASIN
CF	CUBIC FEET
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CIP	CAST IRON PIPE
C.J.	CONSTRUCTION JOINT
CMP	CORRUGATED METAL PIPE
C.O.	CLEANOUT
CV	CHECK VALVE
CF	CUBIC FOOT
CY	CUBIC YARD
℄	CENTER LINE
C.L.F.	CHAIN LINK FENCE
COL.	COLUMN
CONC.	CONCRETE
CONST	CONSTRUCT
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
CU	COPPER
CI	CUBIC INCH
DIA. ø	DIAMETER
DIAG.	DIAGONAL
DIM	DIMENSION
DIST.	DISTANCE
D.I.P.	DUCTILE IRON PIPE
D.E.	DRAINAGE EASEMENT
DRWG.	DRAWING
E	EAST
EA.	EACH
ELEV.	ELEVATION
EQUIP.	EQUIPMENT
ERCP	ELLIPTICAL REINFORCED CONCRETE PIPE
EX. EXIST.	EXISTING
F.F.	FINISHED FLOOR
F.F.E.	FINISHED FLOOR ELEVATION
FM	FORCE MAIN
FOUND.	FOUNDATION
FIN.	FINISH
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FEET
N.G.	NATURAL GAS
G.C.	GENERAL CONTRACTOR
G.I.	GALVANIZED IRON
GPM	GALLONS PER MINUTE
G.V.	GATE VALVE
GA.	GAUGE
G	GALLON
GR	GRADE
HDPE	HIGH DENSITY POLYETHYLENE
HOR.	HORIZONTAL
HYD.	HYDRANT
I.D.	INSIDE DIAMETER
INV.	INVERT
L.A.E.	LAKE ACCESS EASEMENT
MGD	MILLION GALLONS PER DAY
MB	MAILBOX
MH	MANHOLE
M.J.	MECHANICAL JOINT
MAX.	MAXIMUM
MECH.	MECHANICAL
M.E.S.	MITERED END SECTION
MANF.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
N	NORTH
NE	NORTHEAST
NW	NORTHWEST
N.P.W.	NON POTABLE WATER
N.T.S.	NOT TO SCALE
NO. #	NUMBER
NOM.	NOMINAL
NG	NATURAL GAS
O.C.	ON CENTER
O.C.E.W.	ON CENTER EACH WAY
O.D.	OUTSIDE DIAMETER
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
P.V.	PLUG VALVE
PVC	POLYVINYL CHLORIDE
PE	POLYETHYLENE
PVMT.	PAVEMENT
PC	POINT OF CURVATURE
P	PROPERTY LINE
PW	POTABLE WATER
PT	POINT OF TANGENCY
P.U.E.	PUBLIC UTILITY EASEMENT
PVI	POINT OF VERTICAL INTERSECTION
QTY.	QUANTITY
R	RADIUS
RD.	ROAD
RCP	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
R/O.W.	RIGHT OF WAY
R W	RIGHT OF WAY
S	SOUTH
SE	SOUTHEAST
SW	SOUTHWEST
S.S.	STAINLESS STEEL
SAN.	SANITARY
SCHD.	SCHEDULE
SECT.	SECTION
SEW.	SEWER
SHT.	SHEET
SPEC.	SPECIFICATION
SQ.	SQUARE
ST.	STREET
STA.	STATION
ST.	STEEL
STAND.	STANDARD
SYM.	SYMMETRICAL
TOE	TOE OF SLOPE
TOB	TOP OF BANK
THK.	THICK
TEL.	TELEPHONE
TEMP.	TEMPERATURE
TRANS.	TRANSFORMER
TYP.	TYPICAL
USPS	UNITED STATES POSTAL SERVICE
U.E.	UTILITY EASEMENT
VERT.	VERTICAL
W	WATER
WM	WATER MAIN
W	WITH
W O	WITHOUT
WD.	WOOD
WT	WEIGHT
WSWT	WET SEASON WATER TABLE
W.V.	WATER VALVE

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SYMBOLS

- GATE VALVE / PLUG VALVE
- TEE ASSEMBLY
- REDUCER
- FIRE HYDRANT
- FIRE HYDRANT ASSEMBLY WITH GATE VALVE
- MITERED END SECTION
- MH-1 MANHOLE WITH I.D. NUMBER
- HEADWALL
- DRAINAGE INLET
- CONCRETE UTILITY POLE
- WOOD UTILITY POLE
- GUY WIRE ANCHOR
- LIGHT POLE
- TELEPHONE SERVICE PEDESTAL
- SIGN
- NATURAL GAS MARKER
- C.O. CLEAN–OUT
- EXISTING MAILBOX
- PROPOSED MAILBOX

HATCH PATTERNS

- WETLANDS
- UPLAND BUFFER
- UPLAND AREAS
- LITTORAL SHELF AREA
- COMPENSATING LITTORAL PLANTING AREA
- RIP RAP
- PROPOSED WATER
- EXISTING WATER
- INDIGENOUS AREA
- EARTH
- CONCRETE
- BRICK PAVERS
- GRAVEL BACKFILL

LINETYPES

	EXISTING	PROPOSED
RIGHT OF WAY		
LAKE MAINTENANCE EASEMENT		
PUBLIC UTILITY EASEMENT		
DRAINAGE EASEMENT		
CENTER LINE		
WETLAND BOUNDARY		
FORCE MAIN		
SANITARY SEWER	FM	FM
WATER MAIN	WM	WM
PERIMETER BERM		
FENCE LINE		
SILT FENCE		

GENERAL NOTES:

1. ELEVATIONS ARE REFERENCED TO NATIONAL GEODETIC VERTICAL DATUM N.G.V.D. OF 1929.

2. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE OWNER/ENGINEER IMMEDIATELY.

3. EXISTING FACILITIES SHALL BE RESTORED TO A CONDITION EQUIVALENT TO THAT WHICH EXISTED PRIOR TO COMMENCING CONSTRUCTION, AT NO ADDITIONAL COST TO THE OWNER.

4. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, ROADWAY AND TRAFFIC DESIGN STANDARDS (LATEST EDITION), LEE COUNTY DEVELOPMENT STANDARDS AND SPECIFICATIONS, LEE COUNTY UTILITIES REQUIREMENTS AND THE TOWN OF FORT MYERS BEACH REQUIREMENTS.

5. THE CONTRACTOR IS REQUIRED TO ADJUST ALL VALVE BOXES, MANHOLE RIMS, GRATES, ETC., AS NECESSARY TO MATCH PROPOSED FINISHED GRADES.

6. CONTRACTOR SHALL NOTIFY THE LEE COUNTY DIVISION OF DEVELOPMENT REVIEW AND TOWN OF FORT MYERS BEACH A MINIMUM OF 72 HOURS PRIOR TO ALL REQUIRED INSPECTIONS.

7. CONTRACTOR TO PROVIDE SILT FENCE, STAKED BALES AND/OR OTHER APPROPRIATED MEASURES TO EFFECT THE FILTRATION OF SURFACE WATER FLOWS AND TO PROVIDE EROSION PROTECTION DURING CONSTRUCTION ACTIVITIES. PROTECTION IS TO BE MAINTAINED DURING THE CONSTRUCTION PERIOD UNTIL DISTURBED SOILS HAVE BEEN STABILIZED WITH GRASS OR SUITABLE EROSION PROTECTION TREATMENT AS APPROVED BY THE ENGINEER.

8. PROPOSED ROADWAYS SHOWN ARE PUBLIC AND SHALL BE PUBLICLY MAINTAINED.

9. ALL UNPAVED AREAS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED AND MULCHED UNLESS OTHERWISE NOTED.

10. EXISTING OFF–SITE DRAINAGE PATTERNS SHALL BE MAINTAINED DURING CONSTRUCTION.

11. CONTRACTOR SHALL RETAIN, ON THE WORK SITE, COPIES OF ANY PERMITS NECESSARY FOR CONSTRUCTION.

12. CONTRACTOR SHALL PROMPTLY REPORT ANY REQUESTS FOR FIELD CHANGES DIRECTLY TO ENGINEER FOR APPROVAL.

13. CONTRACTOR SHALL CLEAR ALL EXCAVATION AND FILL AREAS; ACTUAL LIMITS OF CLEARING SHALL BE DETERMINED IN THE FIELD BY THE OWNER AND/OR ENGINEER.

14. CONTRACTOR SHALL REMOVE ANY/ALL MUCK AND OTHER UNSUITABLE MATERIAL FROM FILL AREAS PRIOR TO PLACEMENT OF FILL. ALL MUCK AND OTHER UNSUITABLE MATERIALS EXCAVATED FROM LAKES OR REMOVED FROM FILL AREAS SHALL BE STOCKPILED AT THE PROPOSED PROJECT AS DETERMINED BY THE ENGINEER.

15. SITE GRADES MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.

16. LOCATION OF STORM DRAINAGE HEADWALLS OR OUTFALLS ARE SUBJECT TO MODIFICATION IN THE FIELD BY OWNER OR ENGINEER TO PRESERVE EXISTING FEATURES.

17. CONTRACTOR SHALL USE DESIGNATED CONSTRUCTION ENTRANCES FOR EMPLOYEES AND DELIVERY OF MATERIALS.

18. THE LOCATIONS OF EXISTING UTILITIES AND STORM SEWERS SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM RECORD DRAWINGS AND FIELD INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXACT LOCATION PRIOR TO CONSTRUCTION AND REPORT IN WRITING ANY DISCREPANCIES TO THE ENGINEER.

19. DURING CONSTRUCTION, GRATE INLET AND JUNCTION BOX OPENINGS SHALL BE COVERED WITH FILTER FABRIC (MIRAFI 140N OR APPROVED EQUAL) TO PREVENT DEBRIS AND FILL FROM FALLING INTO THE STORM SYSTEM.

20. THE CONTRACTOR SHALL ACCURATELY PLOT THE LOCATIONS AND DEPTHS OF ALL IMPROVEMENTS INSTALLED ON A FINAL SET OF RECORD DRAWINGS WHICH SHALL BE TURNED OVER TO THE ENGINEER FOR REVIEW.

21. CONTRACTOR IS REQUIRED TO OBTAIN FROM THE ENGINEER AND OWNER WRITTEN APPROVAL FOR ANY DEVIATIONS FROM THE PLANS AND/OR SPECIFICATIONS.

22. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND USAGE OF THE EXISTING STREETS ADJACENT TO THE PROJECT. ALL TRAFFIC MAINTENANCE CONTROL SHALL BE IN ACCORDANCE WITH THE FLORIDA MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS. A "MAINTENANCE OF TRAFFIC" (MOT) PLAN, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER SHALL BE SUBMITTED TO THE OWNER/ENGINEER PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.

23. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED DEWATERING PERMITS, WATER USE PERMITS OR DREDGING PERMITS.

24. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED TREE REMOVAL PERMITS, CLEARING PERMIT AND EROSION CONTROL PERMITS.

25. THE PRODUCTS AND/OR MATERIALS SELECTED FOR THE PROPRIETARY COMPONENTS SHOWN ON THESE PLANS WERE DETERMINED BASED ON THEIR APPLICATION(S) TO THIS PROJECT. THE PRODUCT AND/OR MATERIAL SPECIFIED SHALL BE CONSIDERED THE MINIMUM PERFORMANCE ACCEPTABLE IN ACCORDANCE WITH THE ASSOCIATED PRODUCT(S). THE CONTRACTOR HAS THE OPPORTUNITY TO PROPOSE ALTERNATIVE PRODUCTS AND/OR MATERIALS FOR THE PURPOSES OF PROVIDING AN "OR EQUAL" SUBSTITUTION. HOWEVER, THE PROPOSED ALTERNATIVE PRODUCT(S) AND/OR MATERIAL MUST PROVIDE AT LEAST THE SAME QUALITIES AS THOSE SPECIFIED FOR THE APPLICATION. ALL PRODUCT(S) AND/OR MATERIAL MUST EQUALLY CONFORM TO THE LATEST ASTM SPECIFICATIONS OR OTHER LISTED COMMERCIAL SPECIFICATIONS (ie: UL) COVERING THE CLASS OR KIND OF PRODUCT(S) AND/OR MATERIAL BEING USED.

26. DURING CONSTRUCTION, IF ANY FORTUITOUS (HISTORICAL OR ARCHAEOLOGICAL) FINDS ARE DISCOVERED OR OBSERVED, ALL WORK SHALL CEASE IN THE AREA. THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE PROJECT ENGINEER WHO WILL NOTIFY THE OWNER. EXAMPLES MAY INCLUDE, BUT ARE NOT LIMITED TO: FRAGMENTS OF STONE TOOLS, SHELLS, SHELL TOOLS, POTTERY, GLASS, BOTTLES, ANIMAL BONES, BUILDING FOUNDATIONS, SHELL MOUNDS OR SAND MOUNDS. THE OWNER WILL ASSESS THE SIGNIFICANCE OF THE FINDS IN A TIMELY MANNER.

27. IF ANY HUMAN SKELETAL REMAINS (UNMARKED BURIALS) ARE FOUND, ALL WORK IN THE AREA MUST STOP AND THE NEAREST (LOCAL) LAW ENFORCEMENT AGENCY SHALL BE IMMEDIATELY NOTIFIED. ACCORDING TO STATE LAW (F.S. 872.05), IT IS UNLAWFUL TO DAMAGE OR DESTROY A HUMAN BURIAL SITE.

28. THE BASE DRAWING INFORMATION WAS TAKEN FROM THE TOPO SURVEY PROVIDED BY BEAN, WHITAKER, LUTZ DATED 5/1/2006. ALL ELEVATIONS ARE BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88) AS ESTABLISHED BY BEAN, WHITAKER, LUTZ.

29. THESE DRAWINGS ARE NOT INTENDED TO REPRESENT A BOUNDARY SURVEY AS DEFINED BY FLORIDA STATUTE.

30. ALL EXISTING MONUMENTATION SHALL BE PROTECTED. IF MONUMENTATION IS DISTURBED OR DESTROYED IT SHALL BE REPLACED AFTER CONSTRUCTION IS COMPLETE TO THE REQUIRED ACCURACY BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER (PSM) AT THE CONTRACTOR'S EXPENSE.

31. A PERMANENT BENCHMARK(S) MUST BE ESTABLISHED WITHIN 100' OF THE STORM WATER STRUCTURE OR GROUP OF STRUCTURES BY A FLORIDA STATE LICENSED PROFESSIONAL SURVEYOR AND MAPPER (PSM).

32. THE CONTRACTOR SHALL MAINTAIN ON SITE A CURRENT AND UPDATED SET OF AS–BUILT DRAWINGS AT ALL TIMES AND PROVIDE ONE (1) COPY TO THE PROJECT ENGINEER UPON COMPLETION OF CONSTRUCTION.

33. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER PRIOR TO THE INITIATION OF ANY DEVIATION FROM THE APPROVED PLANS. NO SUCH DEVIATIONS SHALL BE AUTHORIZED WITHOUT PRIOR WRITTEN APPROVAL BY THE PROJECT ENGINEER.

34. IF A REQUIRED DIMENSION IS NOT SHOWN OR A DISCREPANCY IS FOUND ON THE PLANS, THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER PRIOR TO COMMENCING THAT PART OF THE AFFECTED CONSTRUCTION.

35. THE CONTRACTOR SHALL PROVIDE COMPLIANT IN–PLACE DENSITY TESTS (1 PER ±500 SQUARE FEET) TO THE PROJECT ENGINEER FOR THE LIMEROCK–TYPE BASE AREAS PRIOR TO PLACEMENT OF THE ASPHALT PAVING.

TRAFFIC CONTROL NOTES:

1. CONTRACTOR SHALL SUBMIT A "MAINTENANCE OF TRAFFIC" (MOT) PLAN, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, TO THE PROJECT ENGINEER FOR REVIEW AND APPROVAL PRIOR TO MOBILIZATION. ALLOW 7–10 BUSINESS DAYS FOR REVIEW.

2. THE (MOT) SHALL FOLLOW THE MUTCD AND FDOT STANDARD INDEXT 600 (LATEST EDITION) PROCEDURES, INCLUDING FLAGGING.

3. THE MOT MUST INCLUDE PROVISIONS FOR PEDESTRIAN AND VEHICULAR TRAFFIC SENSITIVE TO THE BEACH TOURIST POPULATION IN THIS AREA. OWNER WILL PERIODICALLY GAUGE THE MOT AND ITS EFFECTIVENESS AND RECOMMEND ALTERNATIVES TO MAINTAIN GOOD PUBLIC RELATIONS.

PAVING, GRADING AND DRAINAGE NOTES:

1. THIS SITE CAN BE SAFELY UTILIZED FOR BUILDING PURPOSES WITHOUT UNDUE DANGER FROM FLOODING OR ADVERSE SOIL CONDITIONS.

2. LENGTH OF STORM PIPES ARE APPROXIMATE AND ARE MEASURED FROM INSIDE FACE OF STRUCTURE.

3. VERTICAL SAW CUTS THROUGH EXISTING PAVEMENT AND BASE MATERIAL ARE REQUIRED WHERE NEW PAVEMENT MATCHES TO EXISTING PAVEMENT.

4. SURFACES SHALL VARY EVENLY AND SMOOTHLY BETWEEN INDICATED GRADES, UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. A TWO AND ONE–HALF (2 1/2") ALLOWANCE (OVER EXCAVATION) SHALL BE PROVIDED FOR ALL SODDED ARES FROM THAT SHOWN AS "FINISHED GRADE" TO THE "TOP OF SOD".

5. LOCATIONS OF INLETS AND STORM DRAINS MAY BE FIELD ADJUSTED TO MATCH OR PRESERVE EXISTING SITE FEATURES.

6. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR EACH INLET FOR REVIEW AND WRITTEN APPROVAL BY THE PROJECT ENGINEER PRIOR TO FABRICATION. ALL INLETS ARE TO BE PROVIDED WITH STEEL GRATES PER FDOT STANDARD INDEX (LATEST EDITION).

7. EXISTING OFF–SITE DRAINAGE PATTERNS SHALL BE MAINTAINED DURING CONSTRUCTION.

8. CONTRACTOR SHALL NOTIFY THE OWNER AND CONTACT ALL UTILITY COMPANIES FOR LOCATIONS OF EXISTING UTILITIES IN THE AREA AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION.

9. CONTRACTOR TO UTILIZE LATEST EDITION OF FDOT DESIGN STANDARDS MANUAL FOR ALL CATCH BASINS, INLETS, GRATES, STORM PIPING, AND STORM STRUCTURES.

UTILITY NOTES:

1. ALL UTILITIES TO BE INSTALLED IN ACCORDANCE WITH THE CURRENT LEE COUNTY UTILITY DEPARTMENT DETAILS AND SPECIFICATIONS.

2. CONTRACTOR SHALL NOTIFY THE OWNER AND CONTACT ALL UTILITY COMPANIES FOR LOCATIONS OF EXISTING UTILITIES IN THE AREA AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION.

3. UTILITIY MATERIALS AND INSTALLATION SHALL CONFORM TO ALL LEE COUNTY UTILITY STANDARDS FOR SEPARATION BETWEEN PIPES AND STRUCTURES. BENDS, DIPS AND OFFSETS SHALL BE INSTALLED IN PIPES WHERE NECESSARY TO AVOID CONFLICTS AND OBTAIN CLEARANCES; WHETHER SHOWN ON PLANS SPECIFICALLY OR NOT.

DEMOLITION / PROTECTION NOTES:

1. CONTRACTOR SHALL REMOVE, STORE, PROTECT AND REINSTALL MISC. ITEMS WITHIN THE RIGHT OF WAY AS LISTED BELOW:
- STREET SIGNS, INFORMATIONAL SIGNS, SPEED LIMIT SIGNS, NO PARKING SIGNS, DIRECTIONAL SIGNS, TROLLEE–STOP SIGNS, BEACH ACCESS SIGNS, LOADING ZONE SIGNS, STOP SIGNS, PEDESTRIAN CROSSING SIGNS, ETC.
- MAILBOXES (PRIVATE AND/OR PUBLIC)
- TROLLEE–STOP BENCHES AND TRASH RECEPTACLES
- PUBLIC TRASH RECEPTACLES
- CONCRETE WHEEL STOPS
- PARKING METERS
- BOLLARDS

2. CONTRACTOR SHALL REMOVE, PROTECT AND TURN OVER TO THE OWNER MISC. ITEMS WITHIN THE RIGHT OF WAY AS LISTED BELOW:
- PRIVATE SIGNS, PRIVATE BUSINESS SIGNS
- PRIVATE LIGHT POLES, SIGN LIGHTS
- PRIVATE LANDSCAPING MATERIALS, EDGING, RETAINING WALLS, ACCENT LIGHTING
- PRIVATE LAWN DECORATIONS
- PRIVATE DUMPSTERS, SCREENS, ENCLOSURES
- NEWSPAPER DISPENSERS
- FENCES, GUIDERAILS, GATES, POLES
- PRIVATE FLAGS, FLAGPOLES, PLAQUES
- BRICK PAVERS
- CONCRETE WHEELS STOPS NOT BEING REINSTALLED
- FRAMES AND GRATES
- FIRE HYDRANTS, VALVES, UTILITY EQUIPMENT

3. CONTRACTOR SHALL RELOCATE AND/OR ADJUST ITEMS WITHIN THE RIGHT OF WAY TO ACCOUNT FOR PROPOSED FINISHED GRADE AS LISTED BELOW:
- GUYWIRES
- SANITARY MANHOLE RIMS
- VALVE BOXES
- CATCH BASINS, JUNCTION BOXES, STORMWATER MANHOLES

WASTE MANAGEMENT AND DISPOSAL:

1. THIS PROJECT SHALL BE SERVED BY PORTABLE SANITARY FACILITIES DURING CONSTRUCTION.

2. ALL WASTE MATERIAL SHALL BE COLLECTED AND STORED IN A LIDDED METAL CONTAINER AND IN ACCORDANCE WITH THE OWNER'S SOLID WASTE STANDARDS. THE DUMPSTER SHALL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY.

3. ALL HAZARDOUS OR TOXIC MATERIAL SHALL BE PROPERLY CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE APPROPRIATE STATE AND/OR FEDERAL REGULATIONS.

4. ANY FUEL OR OTHER PETROLEUM PRODUCTS RELEASED SHALL BE ADDRESSED IMMEDIATELY BY THE CONTRACTOR IN ACCORDANCE WITH CHAPTER 62–770 (FAC).

STORM WATER POLLUTION PREVENTION PLAN (SWP3):

1. THE CONTRACTOR SHALL PROVIDE THE PROJECT ENGINEER WITH A COPY OF THE SWP3 PRIOR TO THE START OF CONSTRUCTION.

2. ALL POLLUTION PREVENTION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER ANY STORM EVENT GREATER THAN 1/2 INCH IN 24 HOURS.

3. ALL POLLUTION PREVENTION CONTROL MEASURES SHALL BE MAINTAINED IN PROPER WORKING ORDER AT ALL TIMES. ALL REPAIRS SHALL BE INITIATED IMMEDIATELY, BUT NOT LONGER THAN 24 HOURS AFTER DISCOVERY.

PRE–CONSTRUCTION DOCUMENTATION:

1. THE CONTRACTOR SHALL OBTAIN PRE–CONSTTRUCTION PHOTOGRAPHS AND VIDEO OF THE ENTIRE PROJECT AREA CLEARLY DEPICTING THE PRE–CONSTRUCTION CONDITION OF THE CONSTRUCTION AREA AND ADJACENT PROPERTIES. THE VIDEO SHALL PAY SPECIAL ATTENTION TO ITEMS SUCH AS FENCES, SIGNS, SHEDS, TREES, LANDSCAPING AND EXISTING UTILITIES. A COPY OF THE PHOTOS SHALL BE PROVIDED TO THE OWNER ON CD AND A COPY OF THE VIDEO SHALL BE PROVIDED TO THE OWNER ON DVD. FOLLOWING RESTORATION AND CONSTRUCTION OF THE SITE, THE CONTRACTOR SHALL OBTAIN POST–CONSTRUCTION PHOTOS AND A VIDEO TO DOCUMENT THE SATISFACTORY RESTORATION OF THE CONSTRUCTION AREA. COPIES OF THESE PHOTOS AND VIDEO MUST BE IN THE SAME FORMAT AS THE PRE–CONSTRUCTION MATERIAL.

REVISIONS

NO.	DESCRIPTION	DATE

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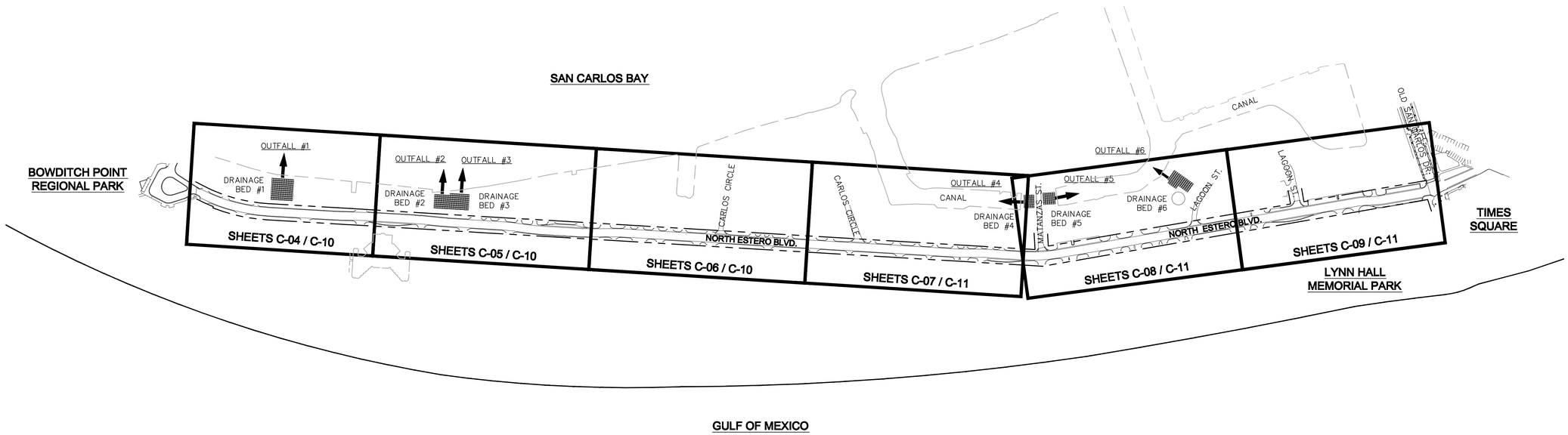
PROJECT: NORTH ESTERO BLVD. DRAINAGE IMPROVEMENTS
TOWN OF FORT MYERS BEACH
LEE COUNTY, FLORIDA

SHEET TITLE: ABBREVIATIONS, LEGENDS AND STANDARD NOTES

DATE:	DECEMBER 2008
PROJECT NO:	05–0722
FILE NO:	24–46–23
SCALE:	NONE

SHEET NUMBER
C-02



GRAPHIC SCALE
0 50 100 200
SCALE IN FEET

REVISIONS

NO.	DESCRIPTION	DATE

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CLIENT:
TOWN OF FORT MYERS BEACH
2523 ESTERO BLVD.
FORT MYERS BEACH, FL 33931
(239) 765-0202

PROJECT:
NORTH ESTERO BLVD. DRAINAGE IMPROVEMENTS
TOWN OF FORT MYERS BEACH
LEE COUNTY, FLORIDA

SHEET TITLE:
OVERALL AND MASTER DRAINAGE PLAN

DATE:	DECEMBER 2008
PROJECT NO:	05-0722
FILE NO:	24-46-23
SCALE:	1" = 200'

SHEET NUMBER
C-03

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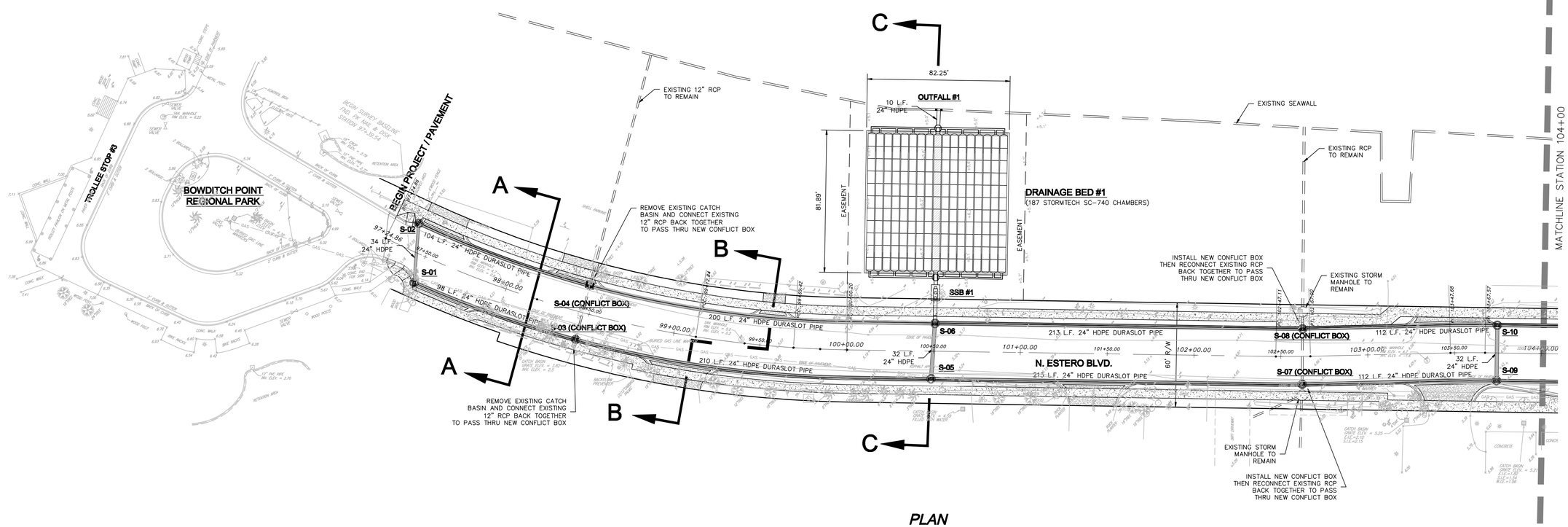
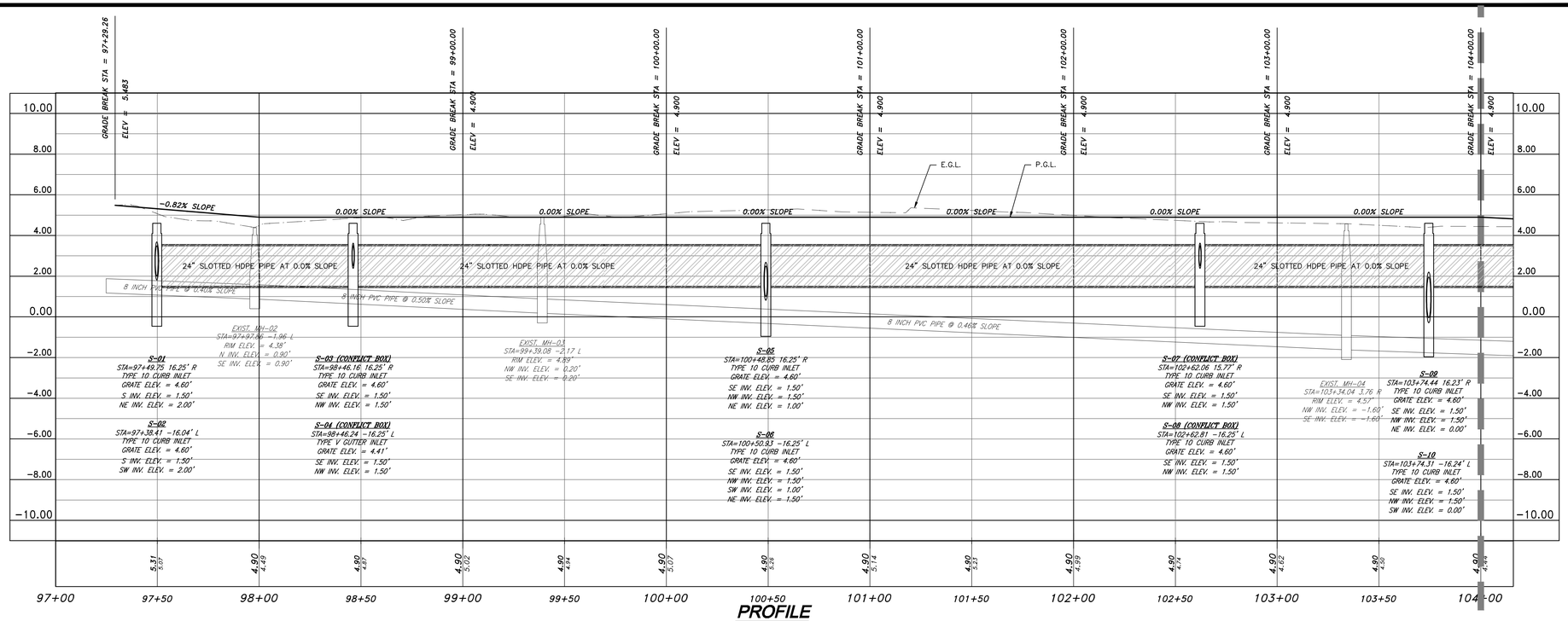


PLAN

SCALE: 1"=30'



PROFILE

SCALE: 1"=30' HORIZ.
1"=3' VERT.

REVISIONS

NO.	DESCRIPTION	DATE

GRAPHIC SCALE
0 15 30
SCALE IN FEET

R.M. FIDENTFIELD
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CA#5520

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PROJECT:
NORTH ESTERO BLVD. DRAINAGE IMPROVEMENTS
TOWN OF FORT MYERS BEACH
LEE COUNTY, FLORIDA

SHEET TITLE:
PLAN AND PROFILE

DATE:	DECEMBER 2008
PROJECT NO:	05-0722
FILE NO:	24-46-23
SCALE:	1" = 30'

SHEET NUMBER
C-04

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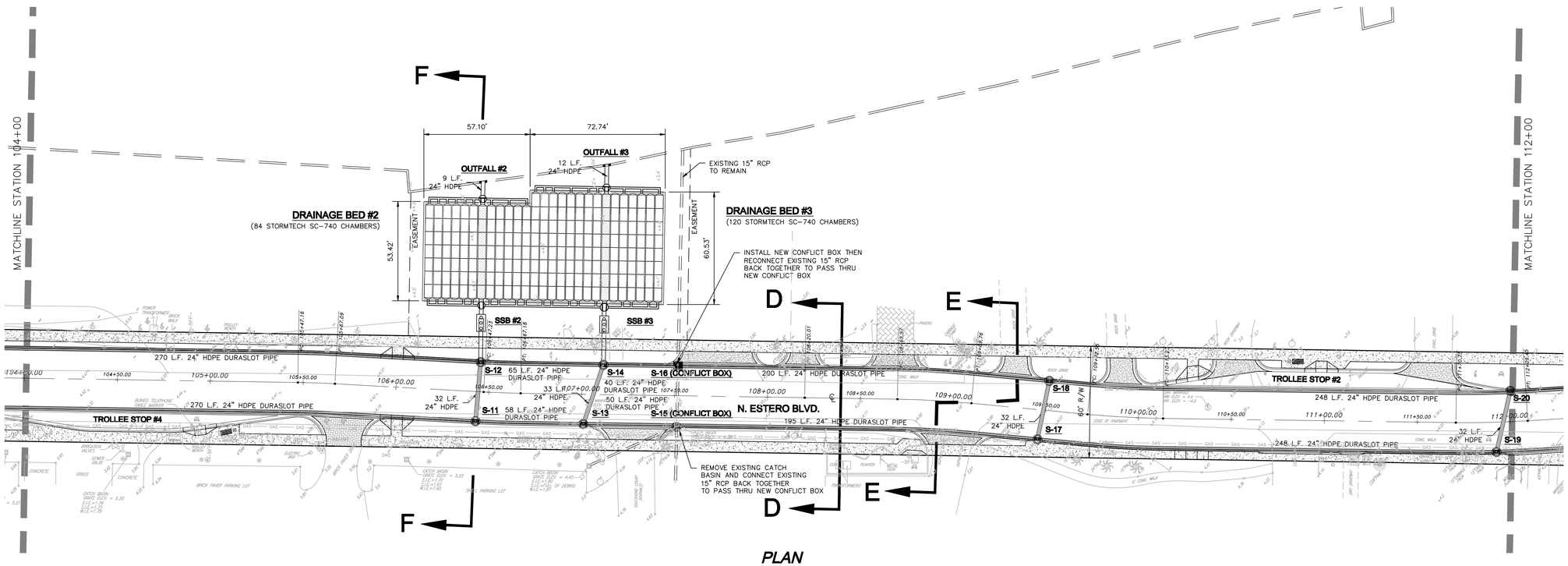

PLAN

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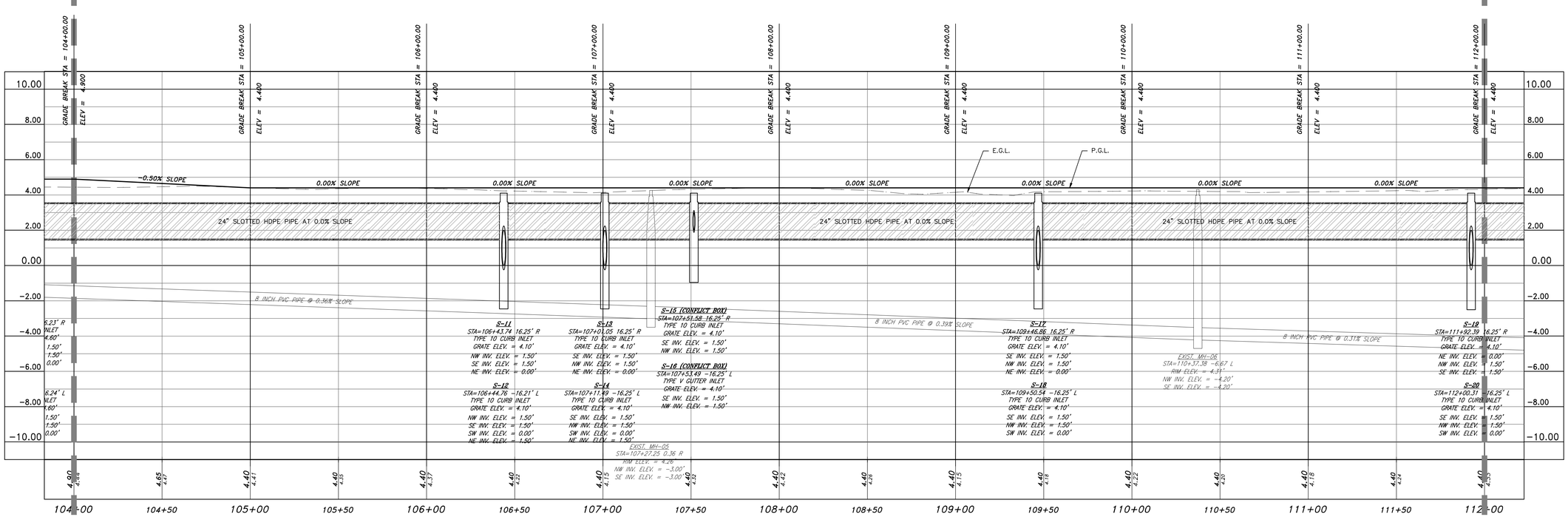

PROFILE

SCALE: 1"=30' HORIZ.
1"=3' VERT.

GRAPHIC SCALE
0 15 30
SCALE IN FEET

REVISIONS		
NO.	DESCRIPTION	DATE

R.M. FIRNSTIELD
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PROJECT:
NORTH ESTERO BLVD.
DRAINAGE IMPROVEMENTS
TOWN OF FORT MYERS BEACH
LEE COUNTY, FLORIDA

SHEET TITLE:
PLAN AND PROFILE

DATE:	DECEMBER 2008
PROJECT NO:	05-0722
FILE NO:	24-46-23
SCALE:	1" = 30'

SHEET NUMBER
C-05

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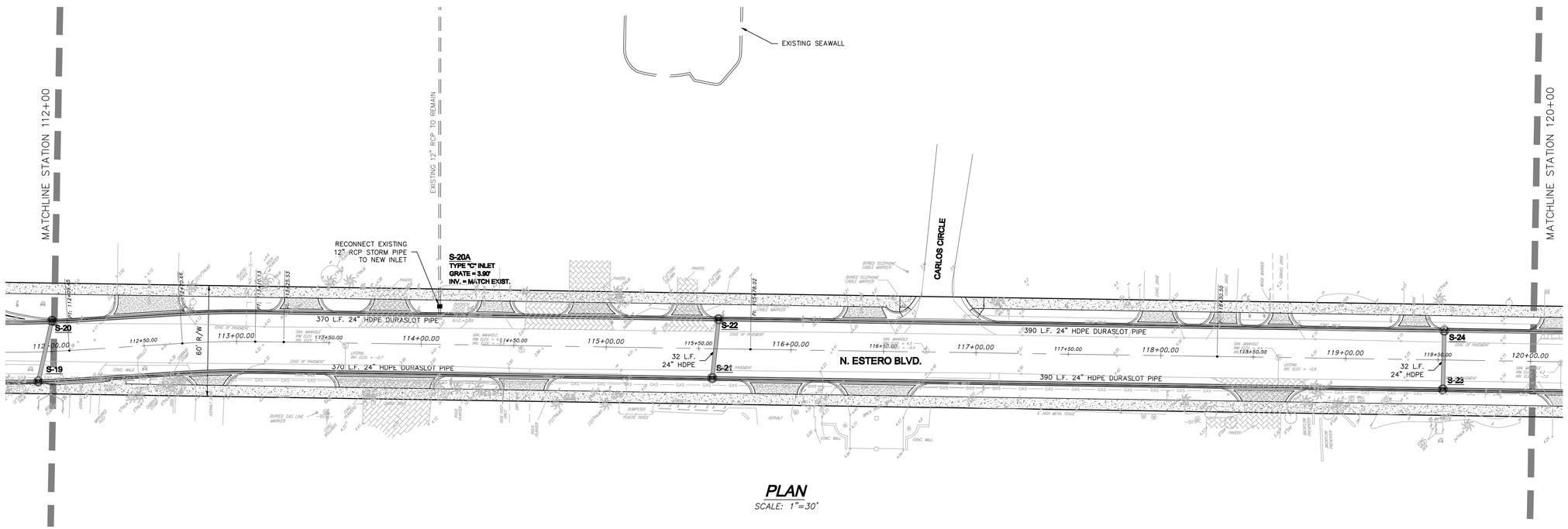

PLAN

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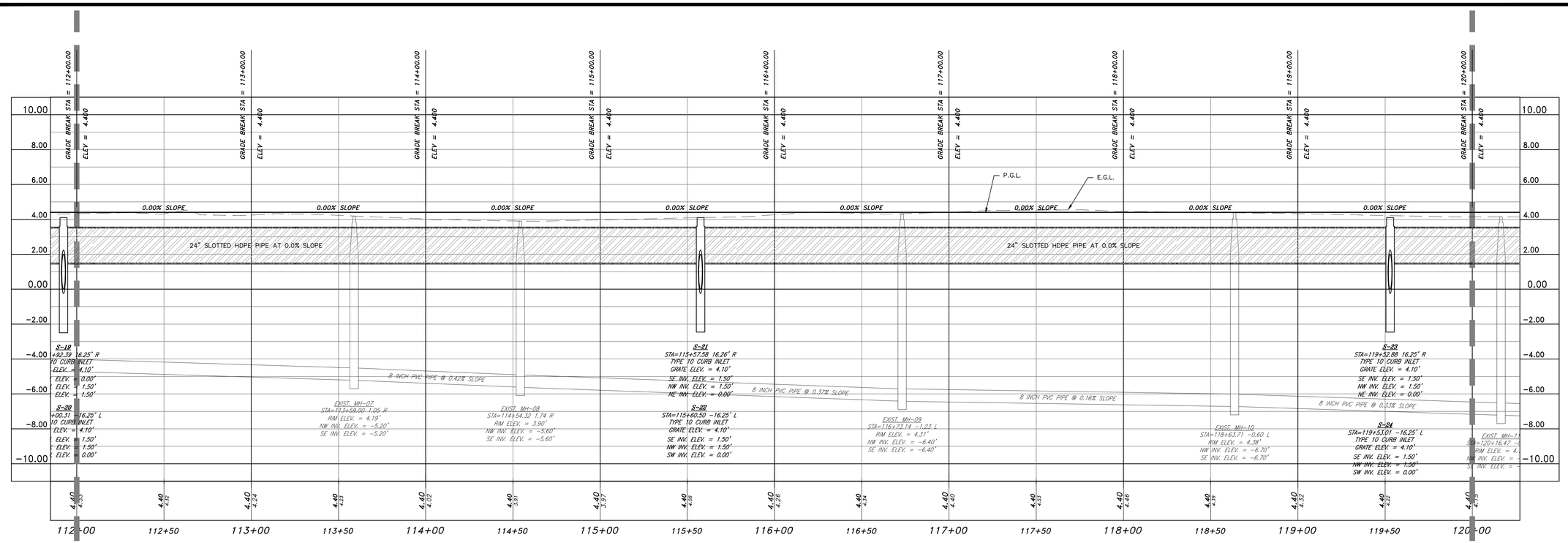

PROFILE

SCALE: 1"=30' HORIZ.
1"=3' VERT.

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GRAPHIC SCALE
0 15 30
SCALE IN FEET

REVISIONS

NO.	DESCRIPTION	DATE

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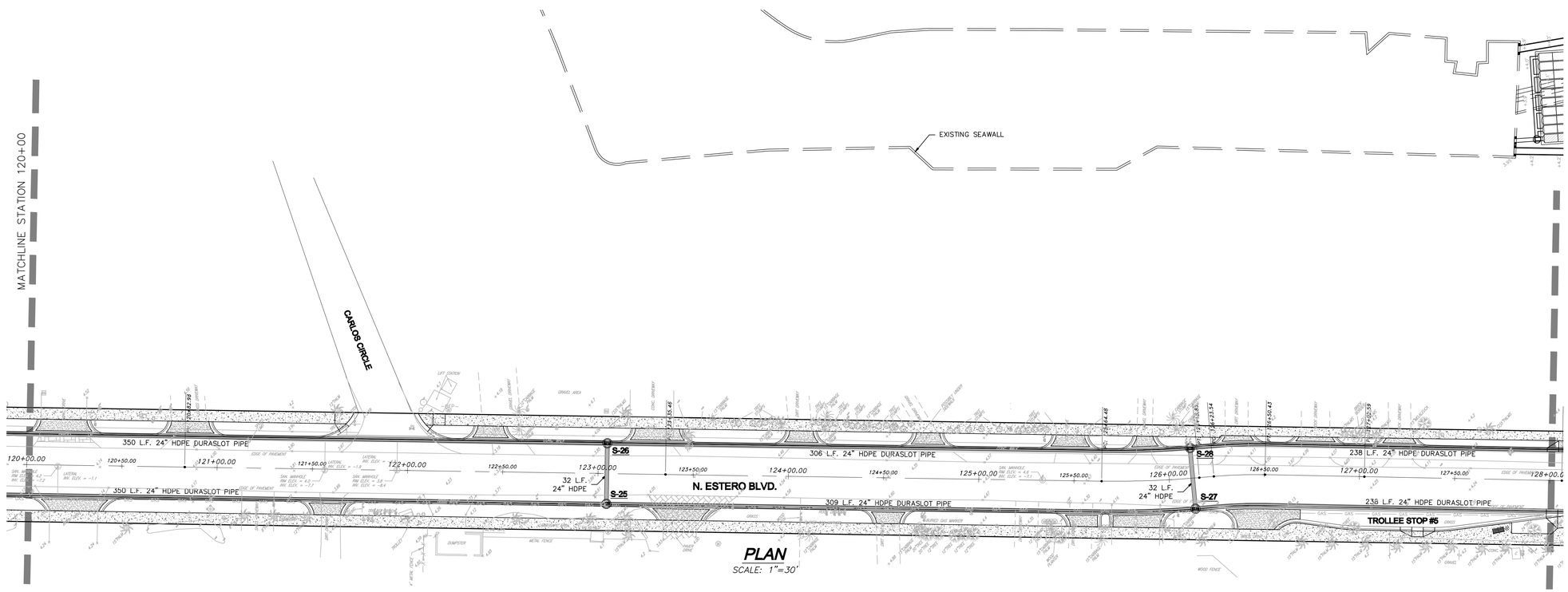
PROJECT:
NORTH ESTERO BLVD.
DRAINAGE IMPROVEMENTS
TOWN OF FORT MYERS BEACH
LEE COUNTY, FLORIDA

SHEET TITLE:
PLAN AND PROFILE

DATE:	DECEMBER 2008
PROJECT NO:	05-0722
FILE NO:	24-46-23
SCALE:	1" = 30'

SHEET NUMBER
C-06



PLAN

SCALE: 1"=30'

GRAPHIC SCALE
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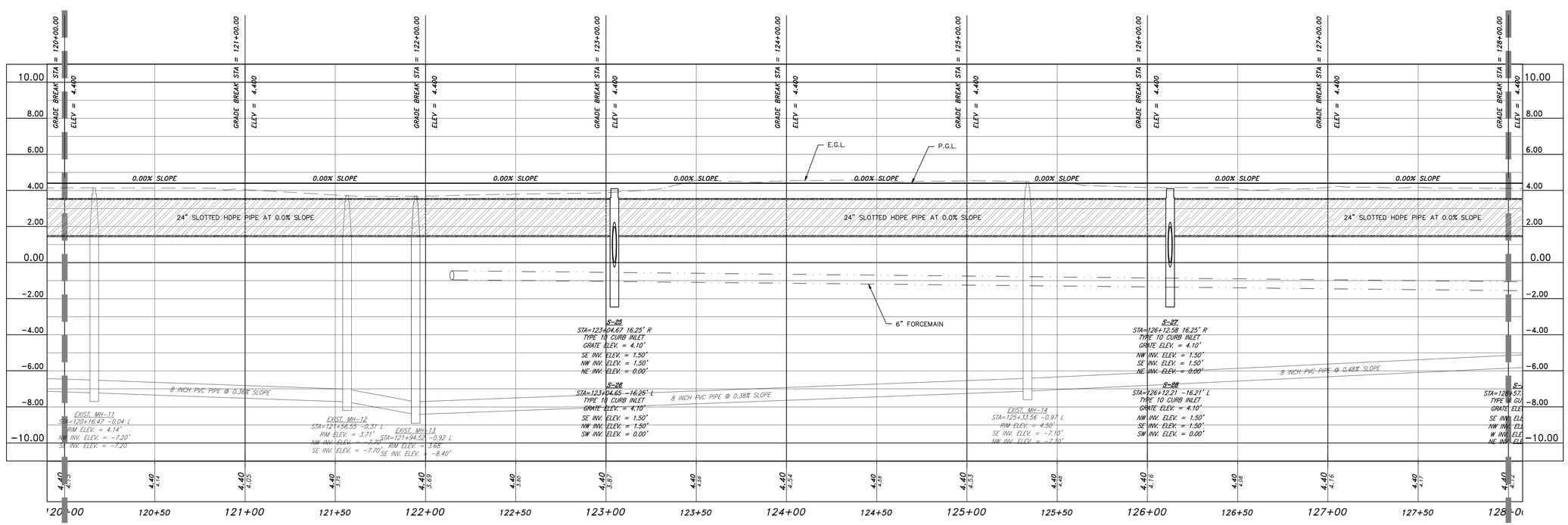
SCALE IN FEET



PROFILE

SCALE: 1"=30' HORIZ.
1"=3' VERT.

REVISIONS

NO.	DESCRIPTION	DATE

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FORT MYERS BEACH
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FORT MYERS BEACH, FL 33931
(239) 765-0202

PROJECT:
NORTH ESTERO BLVD.
DRAINAGE IMPROVEMENTS
TOWN OF FORT MYERS BEACH
LEE COUNTY, FLORIDA

SHEET TITLE:
PLAN AND PROFILE

DATE:	DECEMBER 2008
PROJECT NO:	05-0722
FILE NO:	24-46-23
SCALE:	1" = 30'

SHEET NUMBER
C-07

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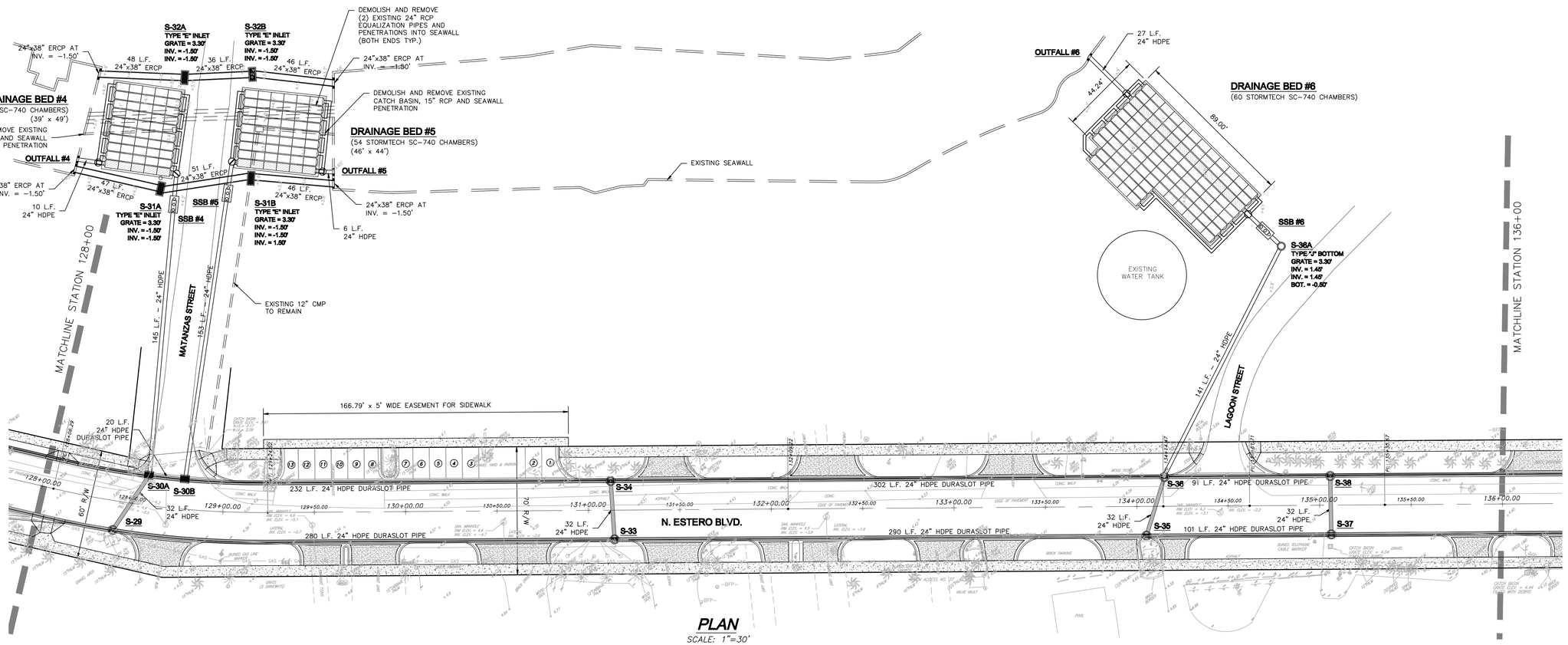

PLAN

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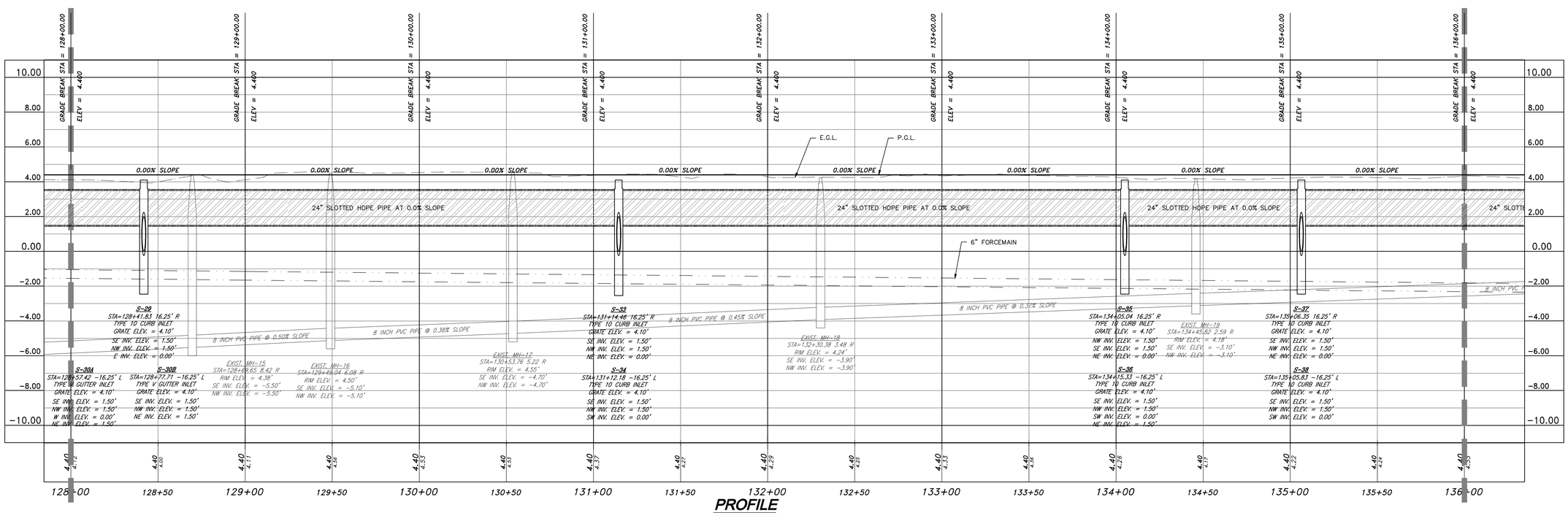

PROFILE

SCALE: 1"=30' HORIZ.
1"=3' VERT.

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REVISIONS		
NO.	DESCRIPTION	DATE

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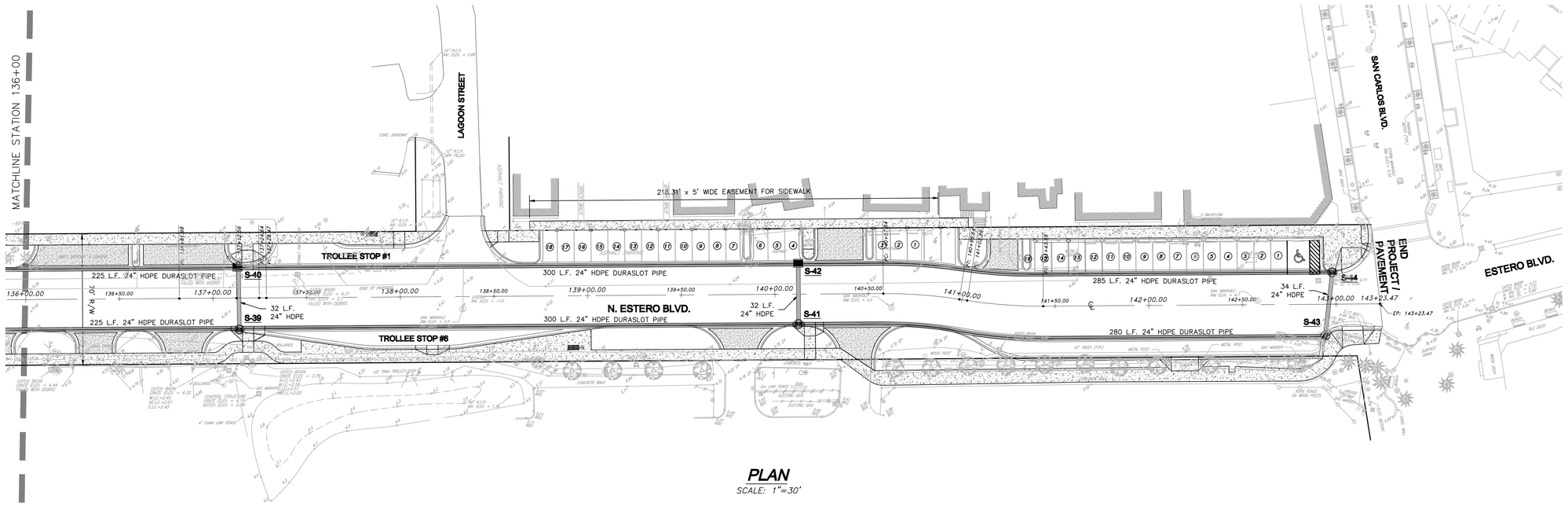
PROJECT:
NORTH ESTERO BLVD. DRAINAGE IMPROVEMENTS
TOWN OF FORT MYERS BEACH
LEE COUNTY, FLORIDA

SHEET TITLE:
PLAN AND PROFILE

DATE:	DECEMBER 2008
PROJECT NO:	05-0722
FILE NO:	24-46-23
SCALE:	1" = 30'

SHEET NUMBER
C-08



PLAN
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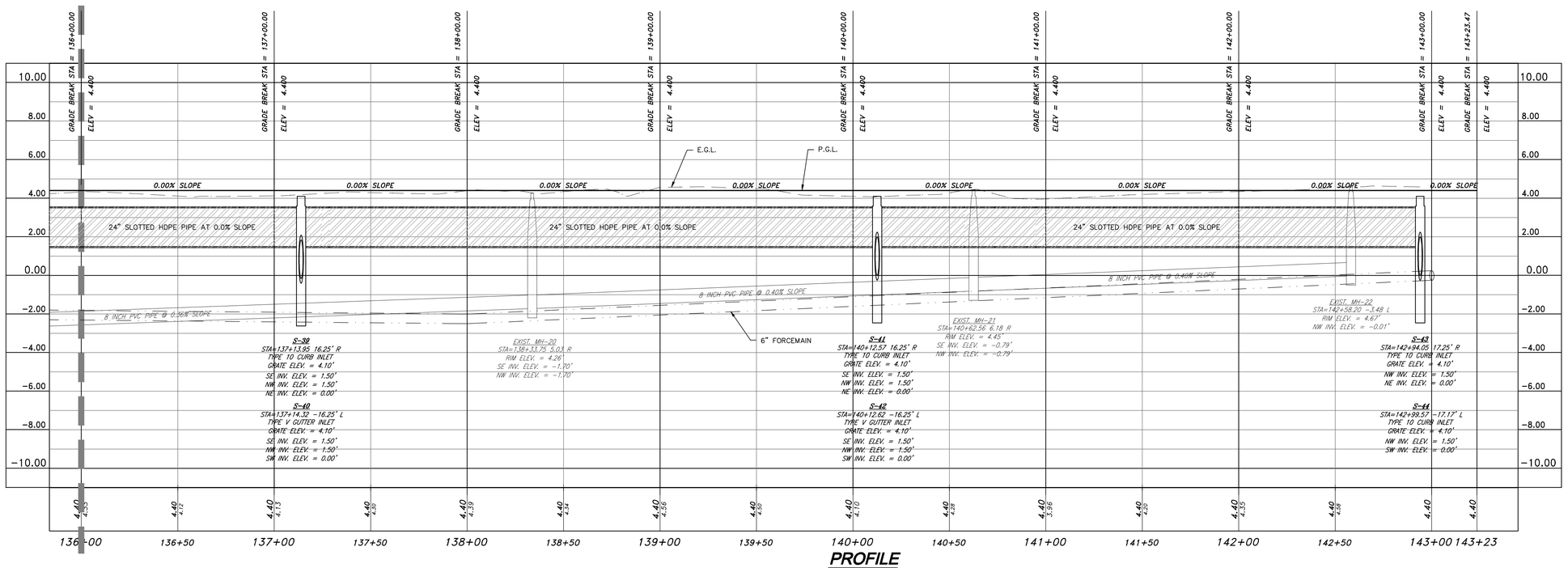

PROFILE
SCALE: 1"=30' HORIZ.
1"=3' VERT.

GRAPHIC SCALE
0 15 30
SCALE IN FEET

REVISIONS		
NO.	DESCRIPTION	DATE

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PROJECT:
NORTH ESTERO BLVD.
DRAINAGE IMPROVEMENTS
TOWN OF FORT MYERS BEACH
LEE COUNTY, FLORIDA

SHEET TITLE:
PLAN AND PROFILE

DATE:	DECEMBER 2008
PROJECT NO:	05-0722
FILE NO:	24-46-23
SCALE:	1" = 30'
SHEET NUMBER	C-09

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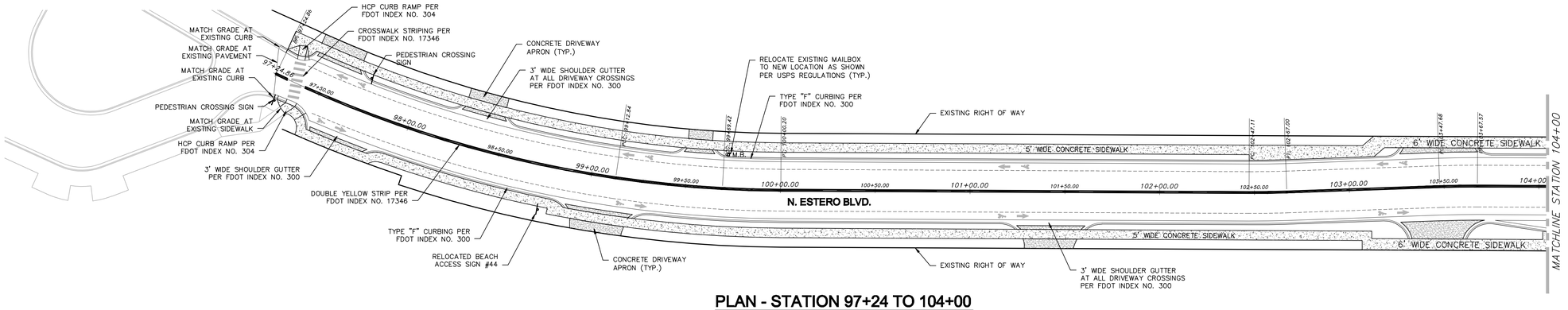
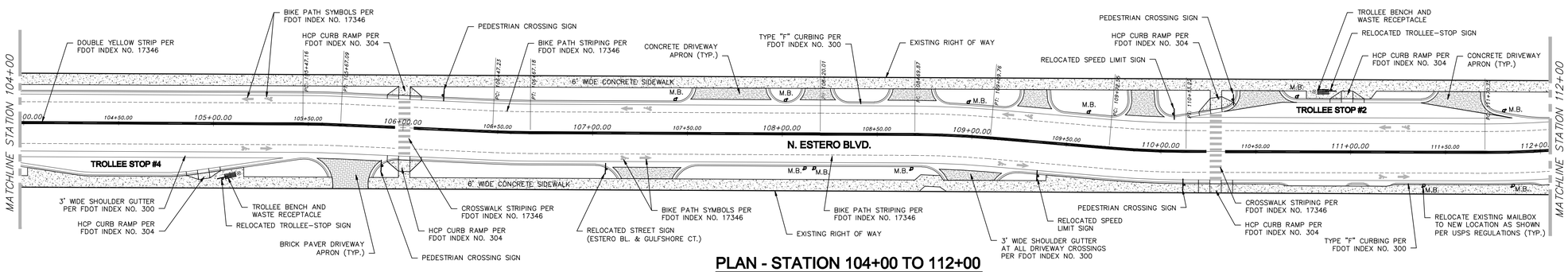


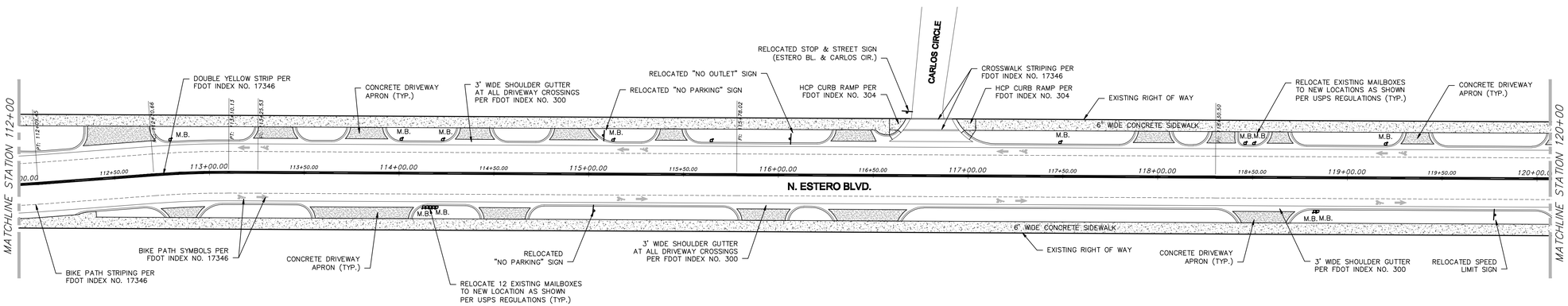
PLAN - STATION 97+24 TO 104+00

SCALE: 1"=30'



PLAN - STATION 104+00 TO 112+00

SCALE: 1"=30'



PLAN - STATION 112+00 TO 120+00

SCALE: 1"=30'

GRAPHIC SCALE
0 15 30
SCALE IN FEET

REVISIONS

NO.	DESCRIPTION	DATE

R.M. EDENFIELD
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Fort Myers, FL 33916
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TOWN OF FORT MYERS BEACH
2523 ESTERO BLVD.
FORT MYERS BEACH, FL 33931
(239) 765-0202

PROJECT:
NORTH ESTERO BLVD. DRAINAGE IMPROVEMENTS
TOWN OF FORT MYERS BEACH
LEE COUNTY, FLORIDA

SHEET TITLE:
HARDSCAPE, SIGNING AND MARKING PLANS

DATE:	DECEMBER 2008
PROJECT NO:	05-0722
FILE NO:	24-46-23
SCALE:	1" = 30'

SHEET NUMBER
C-10

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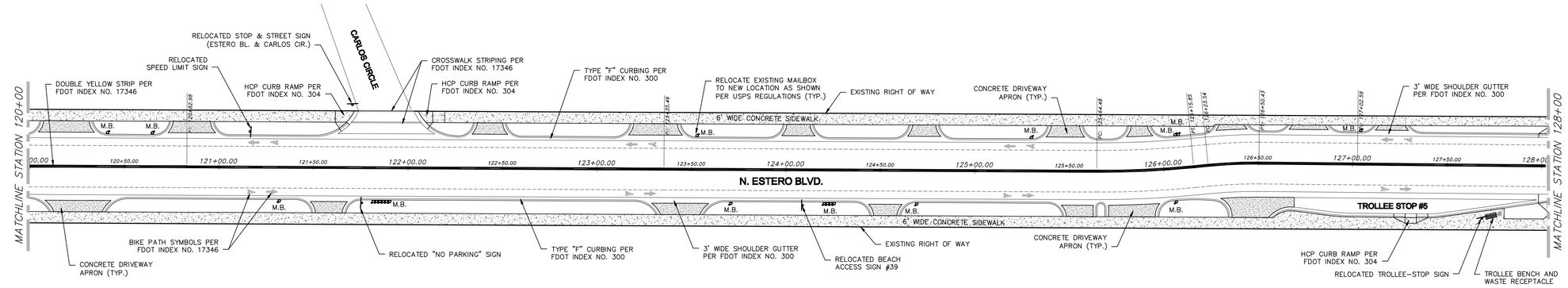
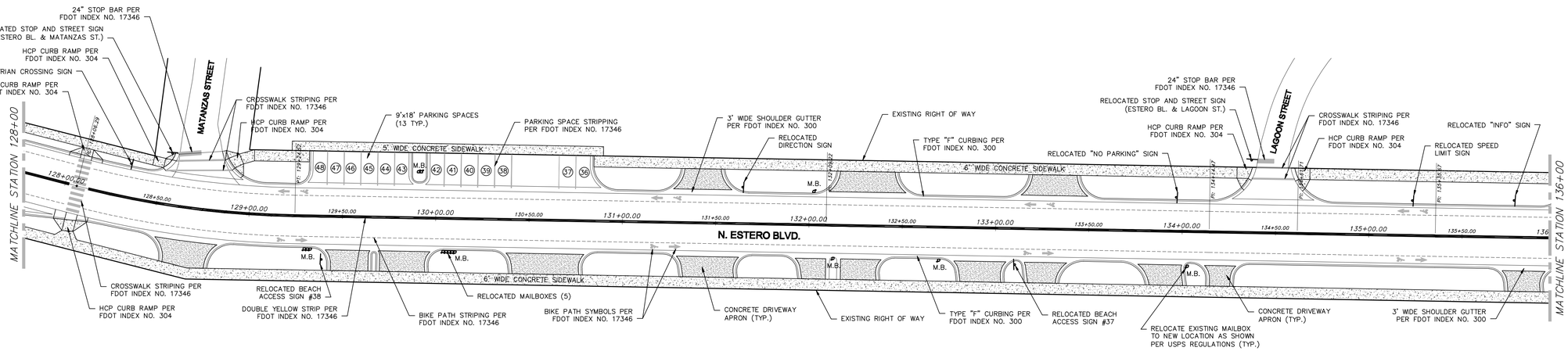


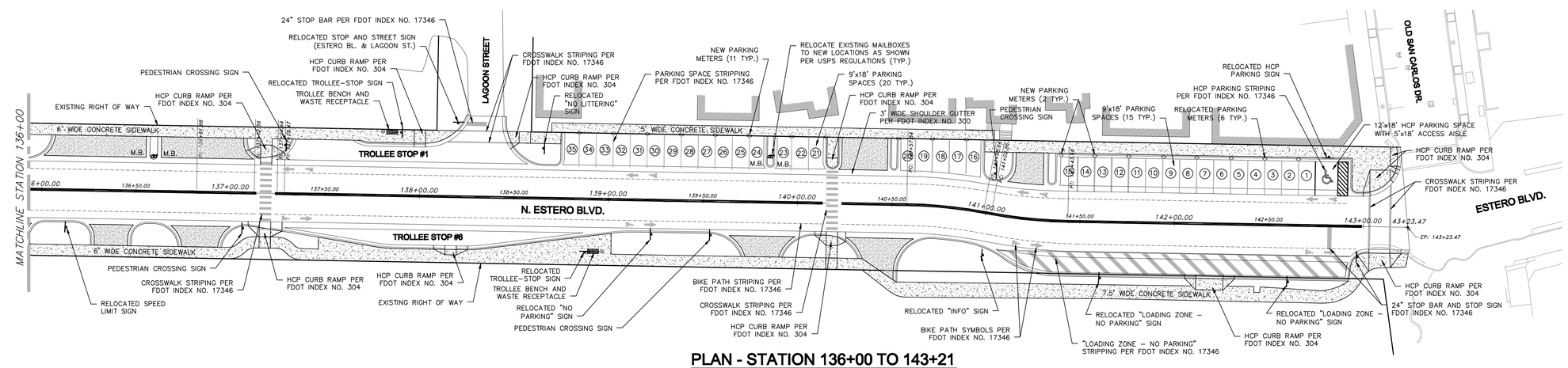
PLAN - STATION 120+00 TO 128+00

SCALE: 1"=30'



PLAN - STATION 128+00 TO 136+00

SCALE: 1"=30'



PLAN - STATION 136+00 TO 143+21

SCALE: 1"=30'

GRAPHIC SCALE
0 15 30
SCALE IN FEET

REVISIONS

NO.	DESCRIPTION	DATE

R.M. EDENFIELD
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FORT MYERS BEACH, FL 33931
(239) 765-0202

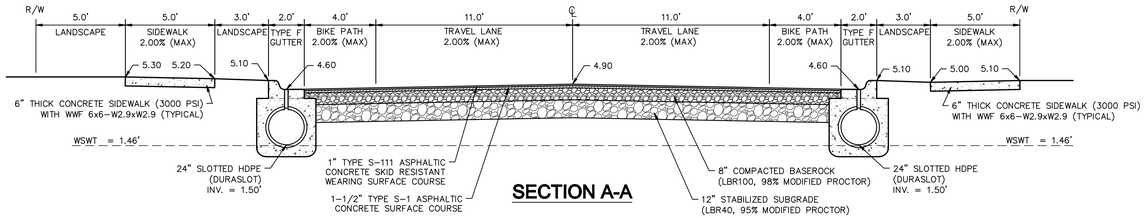
PROJECT:
NORTH ESTERO BLVD. DRAINAGE IMPROVEMENTS
TOWN OF FORT MYERS BEACH
LEE COUNTY, FLORIDA

SHEET TITLE:
HARDSCAPE, SIGNING AND MARKING PLANS

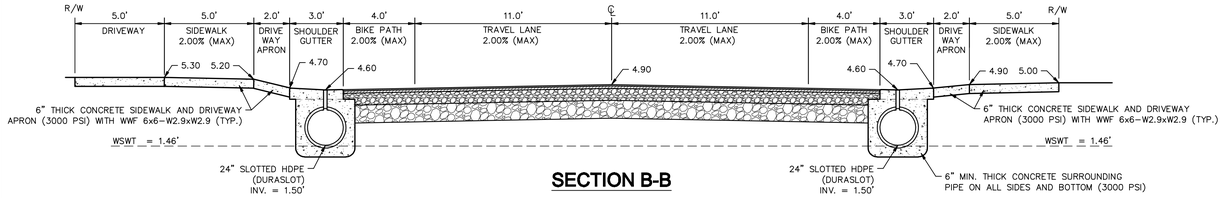
DATE:	DECEMBER 2008
PROJECT NO:	05-0722
FILE NO:	24-46-23
SCALE:	1" = 30'

SHEET NUMBER
C-11

S:\ENGINEERING PROJECTS\FMB\Estero Blvd\North Estero\BID SET\050722-BID-SMP3.dwg (Layout2) Apr 01, 2009 - 3:21pm jhamon



SECTION A-A



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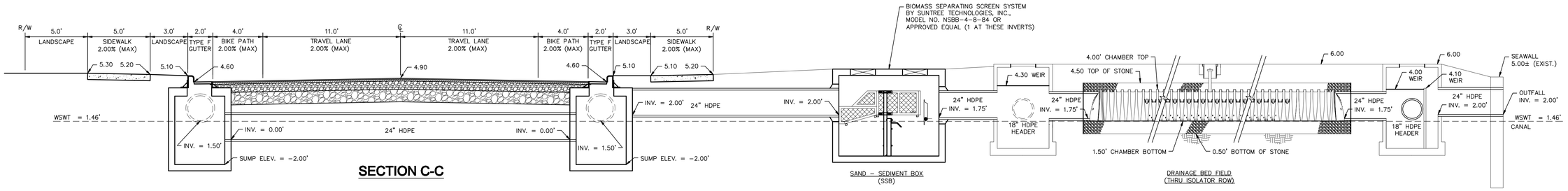

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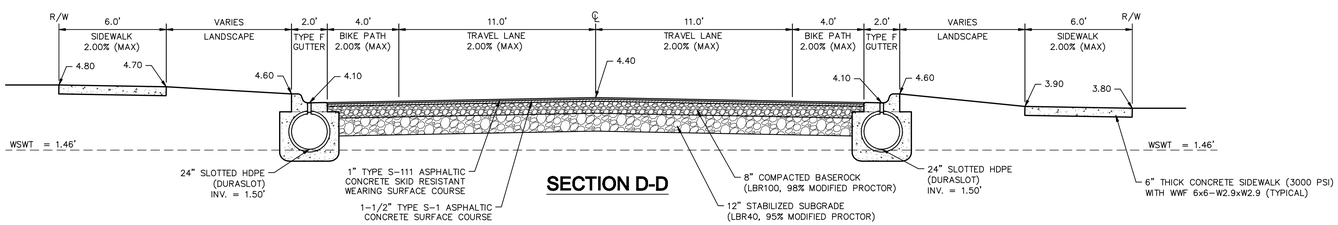

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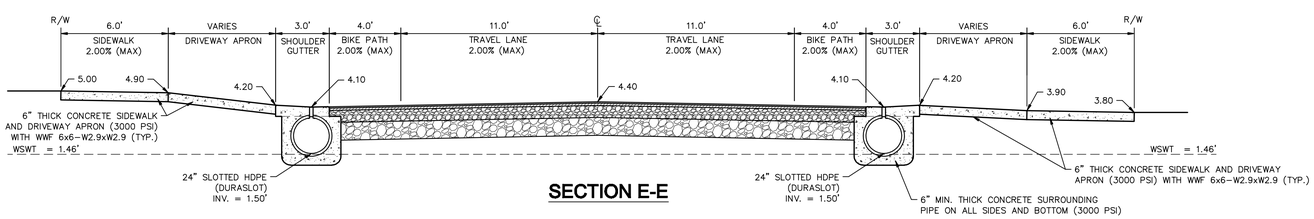

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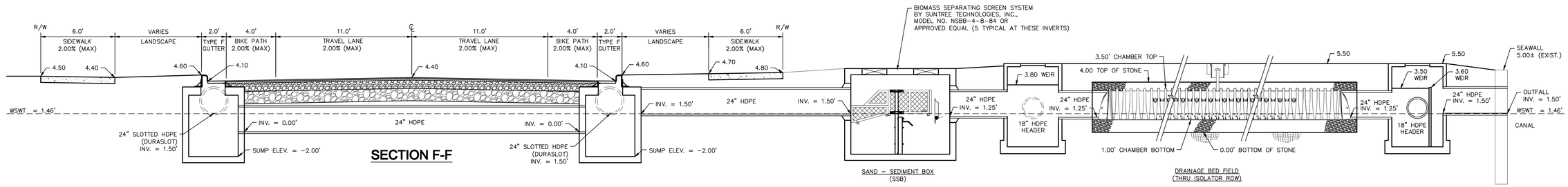

SECTION F-F

GRAPHIC SCALE
0 1 2 4
SCALE IN FEET

REVISIONS		
NO.	DESCRIPTION	DATE

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(239) 765-0202

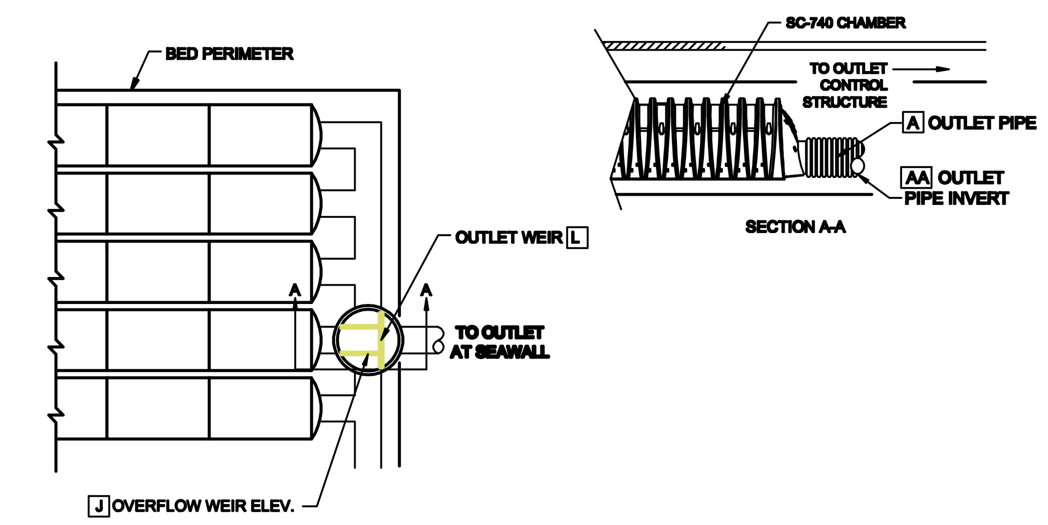
PROJECT:
NORTH ESTERO BLVD. DRAINAGE IMPROVEMENTS
TOWN OF FORT MYERS BEACH
LEE COUNTY, FLORIDA

SHEET TITLE:
TYPICAL SECTIONS

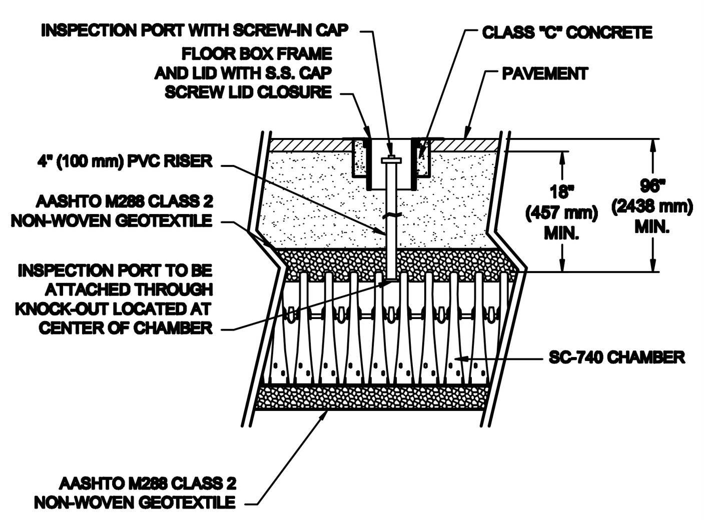
DATE:	DECEMBER 2008
PROJECT NO:	05-0722
FILE NO:	24-46-23
SCALE:	1" = 4'

SHEET NUMBER
C-12

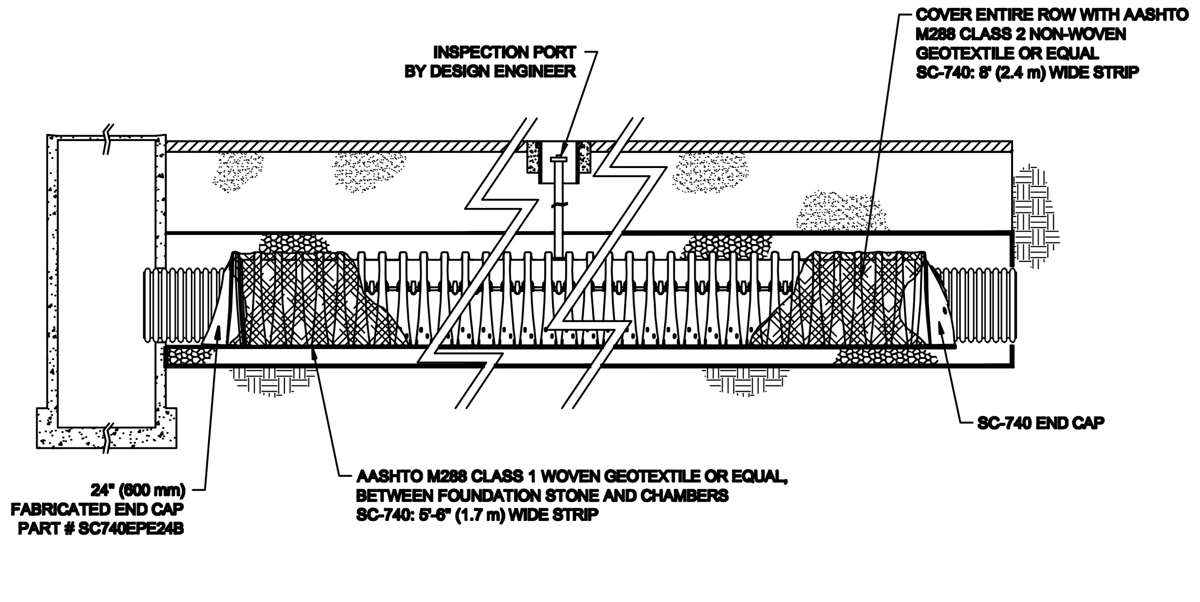
S:\ENGINEERING PROJECTS\FMB\Estero Blvd\North Estero\BID SET\050722-BID-SECTIONS.dwg (Layout1) Apr 01, 2009 - 3:22pm jhanson



1 OUTLET ELEVATIONS



2 INSPECTION PORT



3 ISOLATOR ROW™ PROFILE VIEW

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO M43 DESIGNATION(1)	COMPACTION/DENSITY REQUIREMENT
Ⓓ FILL MATERIAL FOR LAYER D STARTS FROM THE TOP OF THE C LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISH GRADE ABOVE. NOTE THAT PAVEMENT SUB-BASE MAY BE PART OF THIS LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
Ⓒ FILL MATERIAL FOR LAYER C STARTS FROM THE TOP OF THE EMBEDMENT STONE (B LAYER) TO 18" (457 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUB-BASE MAY BE A PART OF THIS LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, < 35% FINES. MOST PAVEMENT SUB-BASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTION AFTER 12" (305 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (152 mm) LIFTS TO A MIN. 95% STANDARD PROCTOR DENSITY (2). ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
Ⓑ EMBEDMENT STONE SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A LAYER) TO THE C LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4 - 2 INCH (19 - 51 mm)	3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
Ⓐ FOUNDATION STONE BELOW CHAMBERS BELOW THE CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4 - 2 INCH (19 - 51 mm)	3, 35, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A 95% STANDARD PROCTOR DENSITY (2).

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".

2. AS AN ALTERNATE TO PROCTOR TESTING AND FIELD DENSITY MEASUREMENTS IN OPEN GRADED STONE, STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (229 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH AN APPROPRIATE COMPACTOR.

4 STORMTECH ACCEPTABLE MATERIALS

	A	AA	B	BB	C	CC	D	DD	E	F	G	H	HH	J	K	L
BED 1	24"	1.25'	N / A	N / A	18"	1.25'	18"	1.25'	1.00'	0.00'	N / A	24"	N / A	3.50'	1.25'	3.60'
BEDS 2,3,4,5, & 6	24"	1.75'	N / A	N / A	18"	1.75'	18"	1.75'	1.50'	0.50'	N / A	24"	N / A	4.00'	1.75'	4.10'

STORMTECH CHAMBERS - ISOLATOR ROW INSPECTION & MAINTENANCE

INSPECTION
The frequency of Inspection and Maintenance varies by location. A routine inspection schedule needs to be established for each individual location based upon site specific variables. The type of land use (i.e. industrial, commercial, residential), anticipated pollutant load, percent imperviousness, climate, etc. all play a critical role in determining the actual frequency of inspection and maintenance practices.

At a minimum, StormTech recommends annual inspections. Initially, the Isolator row should be inspected every 6 months for the first year of operation. For subsequent years, the inspection should be adjusted based upon previous observation of sediment deposition.

The Isolator Row incorporates a combination of standard manhole(s) and strategically located injection ports (as needed). The inspection ports allow for easy access to the system from the surface, eliminating the need to perform a confined space entry for inspection purposes.

If upon visual inspection it is found that sediment has accumulated, a stadia rod should be inserted to determine the depth of sediment. When the average depth of sediment exceeds 3 inches throughout the length of the Isolator row, clean-out should be performed.

MAINTENANCE
The Isolator row was designed to reduce the cost of periodic maintenance. By "isolating" sediments to just one row, costs are dramatically reduced by eliminating the need to clean out each row of the entire storage bed. If inspection indicates the potential need for maintenance, access is provided via a manhole(s) located on the end(s) of the row for cleanout. If entry into the manhole is required, please follow local and OSHA rules for confined space entries.

Maintenance is accomplished with the JetVac process. The JetVac process utilizes a high pressure water nozzle to propel itself down the Isolator row while scouring and suspending sediments. As the nozzle is retrieved, the captured pollutants are flushed back into the manhole for vacuuming. Most sewer and pipe maintenance companies have vacuum/JetVac combination vehicles. Selection of an appropriate JetVac nozzle will improve maintenance efficiency. Fixed nozzles designed for culverts or large diameter pipe cleaning are preferable. Rear facing jets with an effective spread of at least 45" are best. Most JetVac reels have 400 feet of hose allowing maintenance of an Isolator row up to 50 chambers long. **The JetVac process shall only be performed on StormTech Isolator Rows that have AASHTO class 1 woven geotextile (as specified by StormTech) over their angular base stone.**

STORMTECH CHAMBERS - ISOLATOR ROW STEP BY STEP MAINTENANCE PROCEDURES

STEP 1) Inspect Isolator Row for Sediment

A) INSPECTION PORTS (IF PRESENT)
- i. Remove lid from floor box frame
- ii. Remove cap from inspection riser
- iii. Using a flashlight and stadia rod, measure depth of sediment and record results on maintenance log.
- iv. If sediment is at, or above 3 inch depth proceed to Step 2. If not proceed to Step 3.

B) ALL ISOLATOR ROWS
- i. Remove cover from manhole at upstream end of Isolator Row
- ii. Using a flashlight, inspect down Isolator Row through outlet pipe
  1. Mirrors on poles or cameras may be used to avoid a confined space entry
  2. Follow OSHA regulations for confined space entry if entering manhole
- iii. If sediment is at or above the lower row of sidewall holes (approximately 3 inches) proceed to Step 2. If not proceed to Step 3.

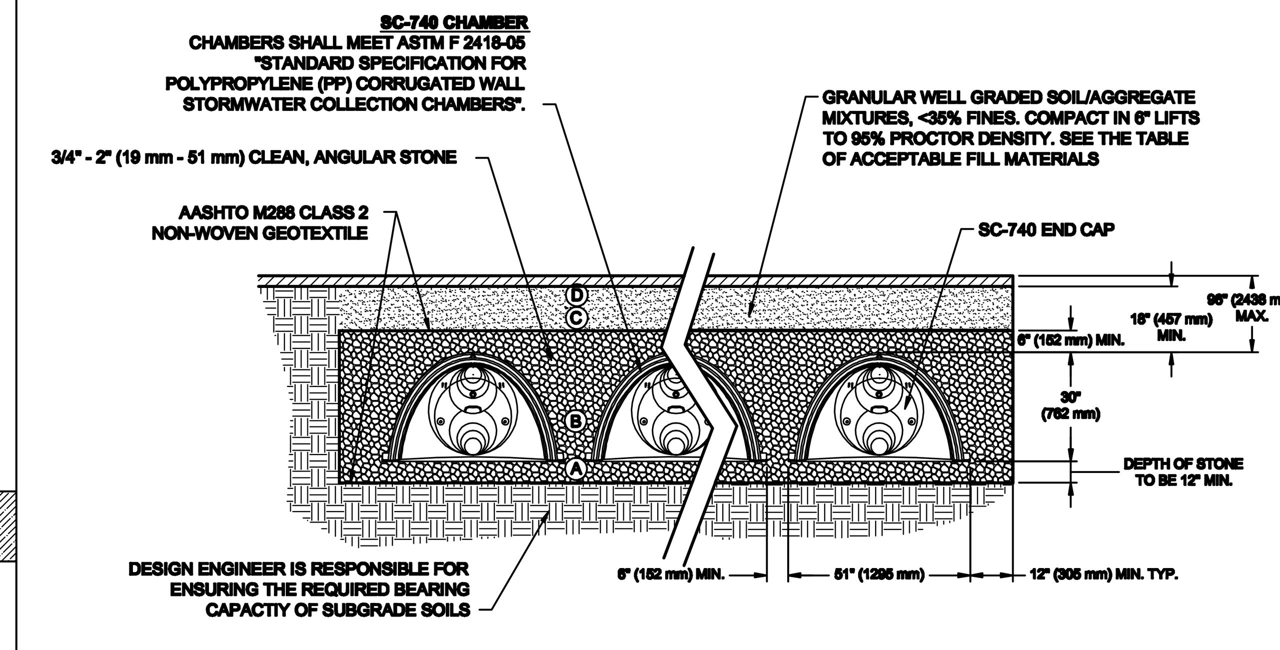
STEP 2) Clean out the Isolator Row using the JetVac process
A) A fixed culvert cleaning nozzle with rear facing nozzle spread of 45 inches or more is preferable
B) Apply multiple passes of JetVac until backflush water is clean
C) Vacuum manhole sump as required

STEP 3) Replace all caps, lids and covers, record observations and actions

STEP 4) Inspect & clean catch basins and manholes upstream of the StormTech system

1. ALL DESIGN SPECIFICATIONS FOR STORMTECH CHAMBERS SHALL BE IN ACCORDANCE WITH THE STORMTECH DESIGN MANUAL
2. THE INSTALLATION OF STORMTECH CHAMBERS SHALL BE IN ACCORDANCE WITH THE LATEST STORMTECH INSTALLATION INSTRUCTIONS
3. THE CONTRACTOR IS ADVISED TO REVIEW AND UNDERSTAND THE INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING SYSTEM INSTALLTION. CALL **1-888-892-2694** OR VISIT **WWW.STORMTECH.COM** TO RECIEVE A COPY OF THE LATEST STORMTECH INSTALLTION INSTRUCTIONS
4. CHAMBERS SHALL MEET THE DESIGN REQUIREMENTS AND LOAD FACTORS SPECIFIED IN SECTION 12.12 OF THE LATEST EDITION OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

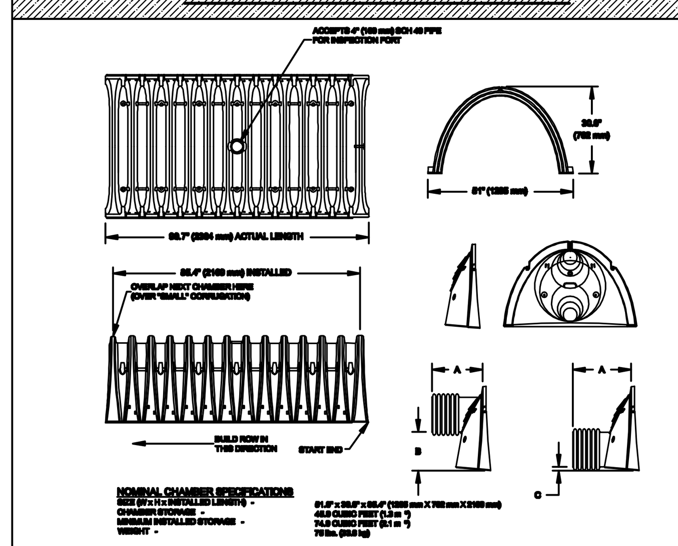
STORMTECH NOTES



THIS CROSS SECTION DETAILS THE REQUIREMENTS NECESSARY TO SATISFY THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12 FOR EARTH AND LIVE LOADS USING STORMTECH CHAMBERS, WITH CONSIDERATION FOR IMPACT AND MUTIPLE VEHICLE PRESENCES.

* SEE STORMTECH DESIGN MANUAL SECTION 4.0

5 STANDARD SC-740 CROSS SECTION



STUBS AT TOP OF END CAP FOR PARTS NUMBERS ENDING WITH "T" / STUBS AT BOTTOM OF END CAP FOR PARTS NUMBERS ENDING WITH "B"

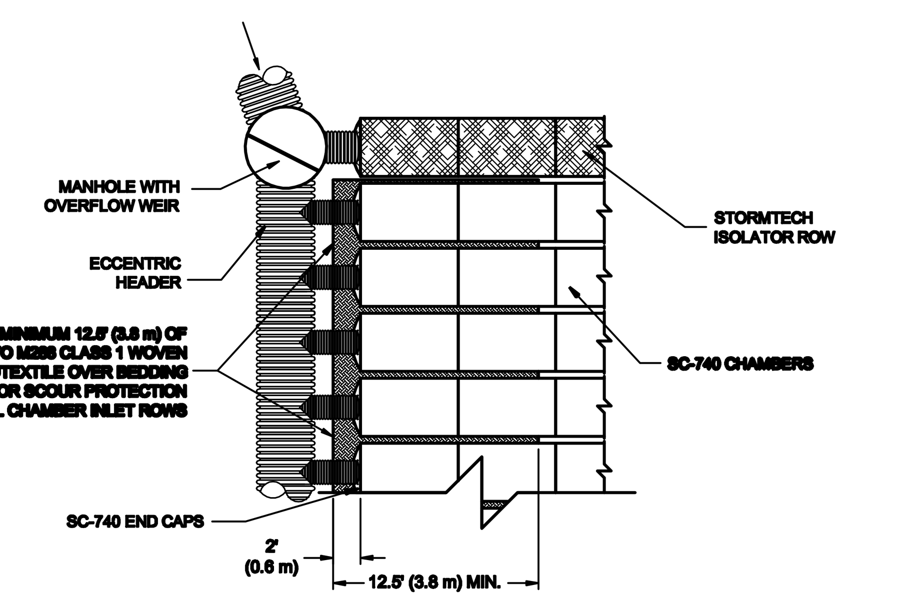
PART #	CHAMBER	PIPE SIZE	A	B	C
SC740EPE06T	SC-740	6 in (150 mm)	10.90 in (277 mm)	18.50 in (470 mm)	N/A
SC740EPE06B	SC-740	6 in (150 mm)	10.90 in (277 mm)	N/A	0.50 in (13 mm)
SC740EPE08T	SC-740	8 in (200 mm)	12.20 in (310 mm)	16.50 in (445 mm)	N/A
SC740EPE08B	SC-740	8 in (200 mm)	12.20 in (310 mm)	N/A	0.60 in (15 mm)
SC740EPE10T	SC-740	10 in (250 mm)	13.40 in (340 mm)	14.50 in (384 mm)	N/A
SC740EPE10B	SC-740	10 in (250 mm)	13.40 in (340 mm)	N/A	0.70 in (18 mm)
SC740EPE12T	SC-740	12 in (300 mm)	14.70 in (373 mm)	12.50 in (318 mm)	N/A
SC740EPE12B	SC-740	12 in (300 mm)	14.70 in (373 mm)	N/A	1.20 in (30 mm)
SC740EPE15T	SC-740	15 in (375 mm)	18.40 in (467 mm)	9.00 in (229 mm)	N/A
SC740EPE15B	SC-740	15 in (375 mm)	18.40 in (467 mm)	N/A	1.30 in (33 mm)
SC740EPE18T	SC-740	18 in (450 mm)	19.70 in (500 mm)	5.00 in (127 mm)	N/A
SC740EPE18B	SC-740	18 in (450 mm)	19.70 in (500 mm)	N/A	1.60 in (41 mm)
SC740EPE24B	SC-740	24 in (600 mm)	18.50 in (470 mm)	N/A	0.10 in (3 mm)

*NOTE: ALL DIMENSIONS ARE NOMINAL.

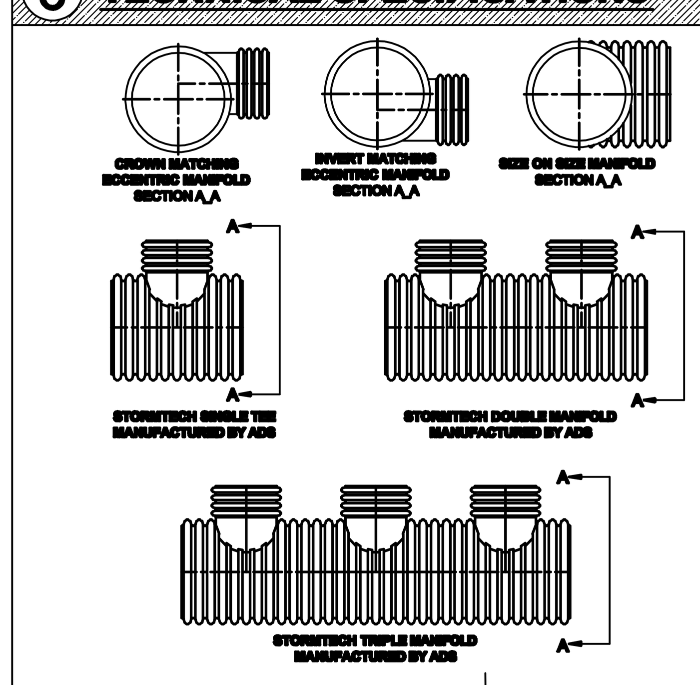
ALL STUBS, EXCEPT FOR THE SC740EPE24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC740EPE24B THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

6 TECHNICAL SPECIFICATIONS



7 ISOLATOR ROW™ MANIFOLD



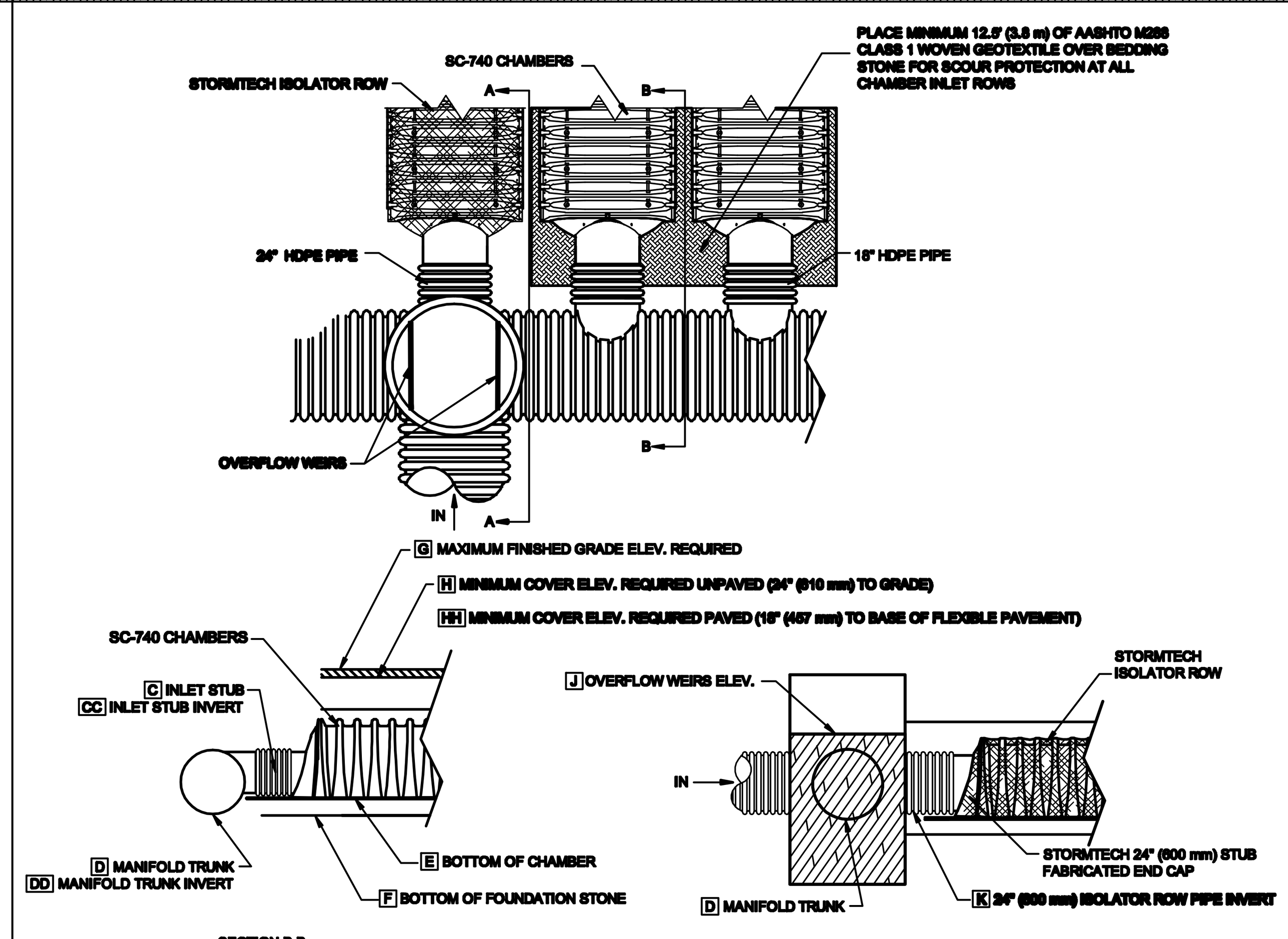
STUB SIZE	HEADER PIPE SIZES 48"	42"	36"	30"	24"	18"	15"	12"	10"	8"
24"	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	-	-	-	-	-
18"	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	-	-	-	-
15"	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	-	-	-
12"	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	-	-
10"	-	-	-	-	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	-
8"	-	-	-	-	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL
6"	-	-	-	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL

AVAIL - STANDARD HEADERS AVAILABLE

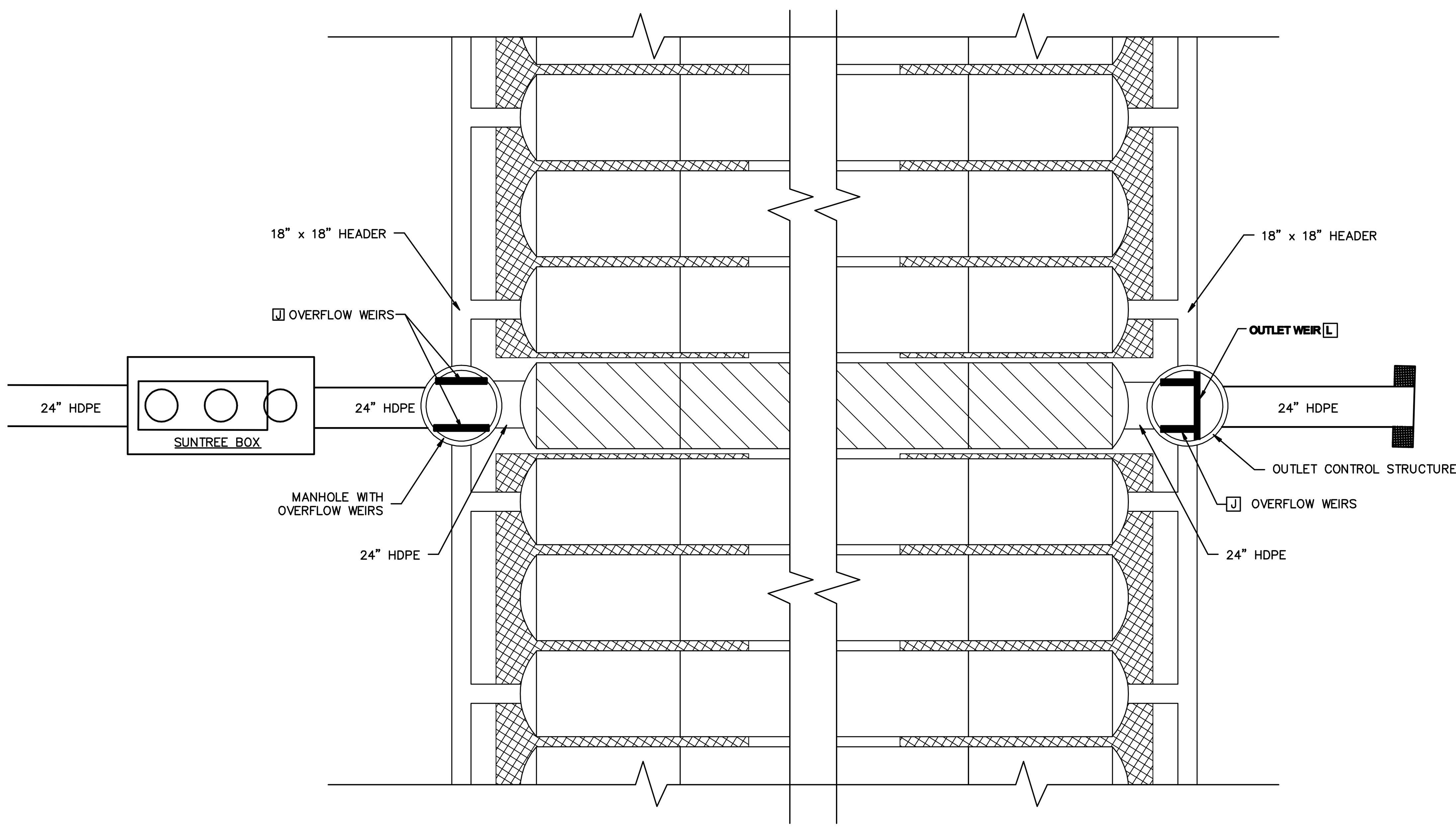
ADS 1-800-892-2694

MANIFOLDS ARE DESIGNED TO BE COUPLED TO STORMTECH PREFABRICATED END CAPS. WHEN USING STANDARD END CAPS, CORRUGATED PIPE UP TO 18 INCHES CAN BE INSERTED DIRECTLY INTO THE END CAP. FOR 24" INLET PIPES, A CORRUGATED TO SMOOTH PIPE ADAPTER IS REQUIRED.

8 MANIFOLD DETAILS



9 INLET ELEVATIONS



10 SC-740 CHAMBER LAYOUT

S:\ENGINEERING PROJECTS\FMB\Estero Blvd\North Estero\BID SET\050722-BID-DETAILS-DR (Rev 5-19-09).dwg (SHEET 2) May 20, 2009 - 12:10pm dscippo

REVISIONS		
NO.	DESCRIPTION	DATE
1	ADD STORMTECH CHAMBERS O&M PROCEDURES	5-19-09

R.M. EDENFIELD
FLORIDA P.E. #45200

ECT
Environmental Consulting & Technology, Inc.
4100 Center Pointe Drive, Suite 112
Fort Myers, FL 33916
(239) 277-0003
CA#5520

CLIENT: TOWN OF FORT MYERS BEACH
2523 ESTERO BLVD.
FORT MYERS BEACH, FL 33931
(239) 765-0202

PROJECT: NORTH ESTERO BLVD. DRAINAGE IMPROVEMENTS
TOWN OF FORT MYERS BEACH
LEE COUNTY, FLORIDA

SHEET TITLE: DRAINAGE BED DETAILS

DATE:	DECEMBER 2008
PROJECT NO:	05-0722
FILE NO:	24-46-23
SCALE:	NONE

SHEET NUMBER
C-13

SUNTREE TECHNOLOGIES MODEL NUMBER: NSBB-4-8-84

FLOW & BY-PASS SPECIFICATIONS FOR THE BIOMASS SEPARATING SCREEN SYSTEM, SEDIMENT STORAGE, AND SKIMMER SPCIFICATIONS.

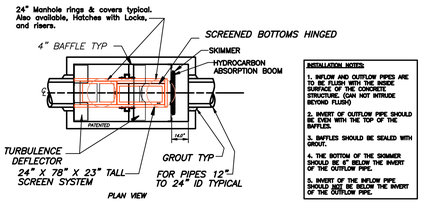
1. Inflow Pipe Area (18" RCP AS DRAWN) — 1.77 sq.ft.

SCREEN SPECIFICATIONS:
2. Open orifice area in screen system — 13.86 sq.ft.
3. Open orifice area in screen system with 50% blockage — 6.93 sq.ft.
4. Open orifice area in screen system with 75% blockage — 3.46 sq.ft.
5. By-pass through screen system — 2.97 sq.ft.
6. Minimum by-pass around screen system — 3.2 sq.ft.
7. Screen system storage volume — 20.06 cu.ft.

SEDIMENT STORAGE:
8. Volume of first chamber — 46 cu.ft.
9. Volume of second chamber — 46 cu.ft.
10. Volume of total sediment storage — 92 cu.ft.

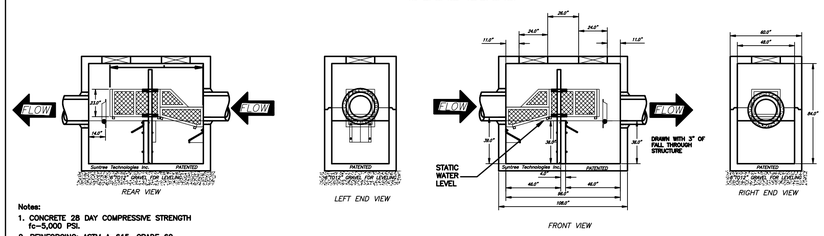
SKIMMER SPECIFICATIONS:
11. Flow area under skimmer — 3.97 sq.ft.
12. Area of pipe in line with skimmer — 1.77 sq.ft.
13. Area between skimmer and outflow pipe parallel with the surface of the pipe — 4.31 sq.ft.

PATENTED
AND PATENTS PENDING



INSTALLATION NOTES:
1. INFLOW AND OUTFLOW PIPES ARE TO BE FLUSH WITH THE INSIDE SURFACE OF THE CONCRETE STRUCTURE. (CAN NOT INTRUDE BEYOND FLUSH)
2. INVERT OF OUTFLOW PIPE SHOULD BE EVEN WITH THE TOP OF THE BAFFLES.
3. BAFFLES SHOULD BE SEALED WITH GROUT.
4. THE BOTTOM OF THE SKIMMER SHOULD BE 6" BELOW THE INVERT OF THE OUTFLOW PIPE.
5. INVERT OF THE INFLOW PIPE SHOULD BEE BE BELOW THE INVERT OF THE OUTFLOW PIPE.

Suntree Technologies Inc.
798 Clearlake Road, Cocoa, Florida 32922
Ph: 321-637-7002 Fax: 321-637-7054



Notes:
1. CONCRETE 28 DAY COMPRESSIVE STRENGTH fc=5,000 PSI.
2. REINFORCING: ASTM A-615, GRADE 60.
3. SUPPORTS AN H20 LOADING AS INDICATED BY AASHTO.
4. JOINT SEALANT: BUTYL RUBBER SS-S-00210
5. ALL WALLS, TOP, AND BOTTOM ARE 6" THICK.
6. INFLOW AND OUTFLOW PIPES ARE TO BE FLUSH WITH THE INSIDE SURFACE OF THE CONCRETE STRUCTURE. (CAN NOT INTRUDE BEYOND FLUSH)
7. HINGED LIDS FOR THE SCREEN SYSTEM ARE AVAILABLE UPON REQUEST.
8. BAFFLES WILL BE SEALED WITH GROUT TO FORM THREE WATER TIGHT CHAMBERS.

PEAK TREATMENT DESIGN FLOW
8 ft³/sec

PEAK DESIGN FLOW
12 ft³/sec

SUNTREE TECHNOLOGIES, INC. 798 CLEARLAKE RD. SUITE #2 COCOA, FL. 32922		PROJECT:	
NUTRIENT SEPARATING BAFFLE BOX MODEL NO. NSBB-4-8-84		DRAWING #:	2-03-06-08-01
		FILE NAME:	NSBB-4-8-84
DATE: 02/13/08	SCALE: SF = 72	REVISIONS:	DATE:
DRAFTER: T.H.2.	UNITS = INCHES	REVISIONS:	DATE:

Hydrodynamic, Volume, & Physical Specifications Of The Nutrient Separating Baffle Box
Model Number: NSBB-4-8-84

1. The stormwater treatment structure will not be positioned in an off line treatment configuration. It will sized so that the entire flow of a 24" pipe will always receive treatment by passing it through the inside of the stormwater treatment structure.

2. For flows of 8 cfs a removal efficiency of at least 80% for TSS will be achieved, and flows of up to 12 cfs will be able to pass through the stormwater treatment structure for treatment.

3. The stormwater treatment structure will be able to store captured solid debris such as leaves and litter in a dry state between rain events. The volume of dry storage will be approximately 20 cubic feet.

4. The stormwater treatment structure will have the capacity to store approximately 92 cubic feet of captured sediment.

5. The stormwater treatment structure will have a skimmer 24" tall located in front of the outflow opening. The bottom of the skimmer will be located 6" below the static water level. The horizontal cross sectional area from behind the skimmer to the concrete wall of the stormwater treatment structure will be approximately 3.97 ft². Adjacent to the face of the skimmer, a hydrocarbon absorption boom will float at the top surface of the water in the stormwater treatment structure.

6. The nutrient separating screen system shall be positioned approximately 3.5" above the static water level within the baffle box. Adjacent to the inflow, the screen system will have openings on both sides that have a combined cross sectional area that exceeds the cross sectional area of the pipe. These openings will act as an internal bypass for water flow in the event that the screen system becomes full of debris.

7. The nutrient separating screen system shall have a minimum of 6" of vertical adjustment. The adjustment method shall be a system with brackets that are attached to the sides of the screen system that will slide vertically along 3" x 3" aluminum square poles. Two stainless steel bolts on each bracket can be tightened to lock the screen system in place, or loosened to allow for vertical adjustment of the screen system. The square poles are anchored to the baffle wall by stainless steel bolts.

8. The nutrient separating screen system shall have a minimum of 3" of horizontal adjustment in the direction of the length of the concrete structure. The brackets that clamp the vertical adjustment poles to the side of the screen system can be repositioned to allow of horizontal adjustment.

9. The nutrient separating screen system shall have a bottom section adjacent to the inflow which is hinged and can be opened for cleaning. This bottom section will function as a screened ramp to direct debris into the main body of the screened system. The sides of of the screen system adjacent to the inflow will be made with stainless steel screen and transition in vertical height from a minimum of 8" above the inflow invert to the height of the main body of the screen system. The lower sides of the screen system adjacent to the inflow will provide bypass for water flow around the main body of the screen system if necessary. The cross sectional area of the bypass around the screen system will be equal to or exceed the cross sectional area of the inflow pipe.

10. The nutrient separating screen system shall give access from above grade to the lower sediment collection chambers by the following method. The bottom of the screen system will contain hinged screened doors that can be opened in such a way as to allow adequate access for a vacuum truck to remove everything in all the lower collection chambers.

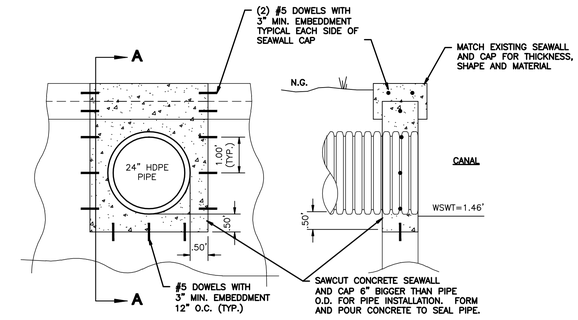
11. The screen system structure will be a welded aluminum framework spanned by stainless steel screen, be generally rectangular in shape, and be formed to make a bottom, 2 long sides, and 1 end ; the top and 1 end will remain open. The screen system will consist of panel sections that are held together with stainless steel bolts. When the panel sections are unbolted and separated from each other they will be able to pass through an access hatch or round manhole in the top of the baffle box for removal purposes. The aluminum frame work will be made of mostly 2" x 2" x ¼" aluminum angle beam. The screen used to span the aluminum frame is described as follows: For the body of the screen system, flattened expanded stainless steel sheet 1/2" No. 16 F; Open area = 60%; Grade = 304 Stainless Steel. For the riser section of the screen system, flattened expanded stainless steel sheet 3/4" #13 F; open area = 75%; Grade 304 Stainless Steel. The screen will be attached to the screen system frame by sandwiching the screen to the aluminum frame between a series of 1 1/4" x 3/16" aluminum bars and welded in place.

12. A turbulence deflector will be attached near the top of each of the baffles and adjacent to the inflow with stainless steel bolts and stainless steel fender washers. The turbulence deflectors will be made from laminated fiberglass and measure a minimum of 3/8" in thickness. A turbulence deflector will be attached to the baffle and will form a horizontal ledge that measures 10" from the downstream side of the the baffle, and span the full width of the baffle box. Adjacent to the inflow will set of 2 turbulence deflectors that each measure 12" wide x 15" long.

13. The structure of the box will be precast concrete. The concrete will be 28 day compressive strength fc = 5,000 psi. Steel reinforcing will be ASTM A – 615 Grade 60. Structure will support an H20 loading as indicated by AASHTO. The joint between the concrete sections will ship lap and the joint sealed with Ram-Nek or equal butyl rubber joint sealant. A concrete baffle will separate the bottom of the structure into 2 chambers for the settling and collection of sediment. The baffle will be sealed with non-shrink grout to form 2 water tight chambers.

14. For access into the Nutrient Separating Baffle Box, two 30" round openings will be cast into the top of the vault.

15. The inflow and outflow pipes will not intrude beyond flush with the inside surface of the Nutrient Separating Baffle Box. The space between the pipe holes in the ends of the Nutrient Separating Baffle Box and the outside surface of the pipe will be filled with non-shrink grout to form a water proof seal. The invert of the outflow pipe will be even with the tops of the baffles.



FRONT VIEW

SECTION A-A

OUTFALL DETAIL
SCALE: 1"=2'

Minimum Recommended Service Procedures for

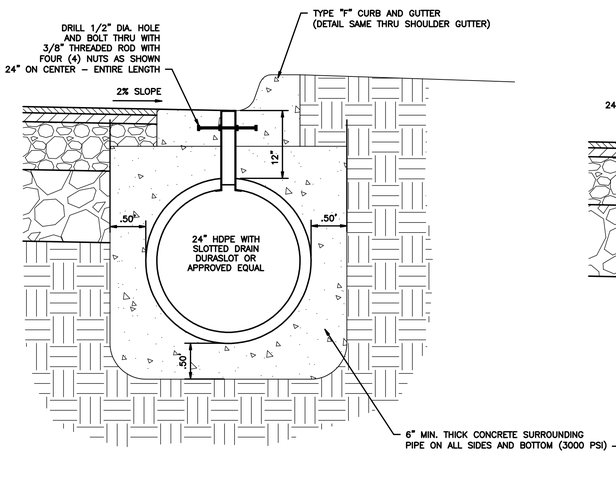
Suntree Technologies, Inc.
Nutrient Separating Baffle Box

Description: The frequency of service should be 1 - 4 times per year determined by the accumulation of sediment and debris in the Nutrient Separating Baffle Box. The service will include cleaning the screen system, removing collected sediment from the baffle chambers and inspecting the Storm Boom for replacement in the skimmer system.

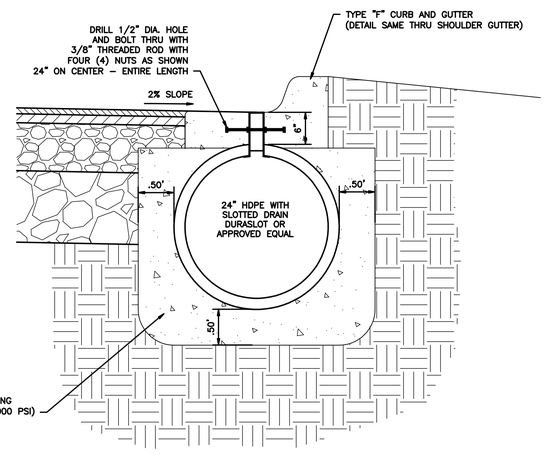
The primary method used to service the Nutrient Separating Baffle Box is by vacuuming with a Vactor type unit.

Vacuum Servicing

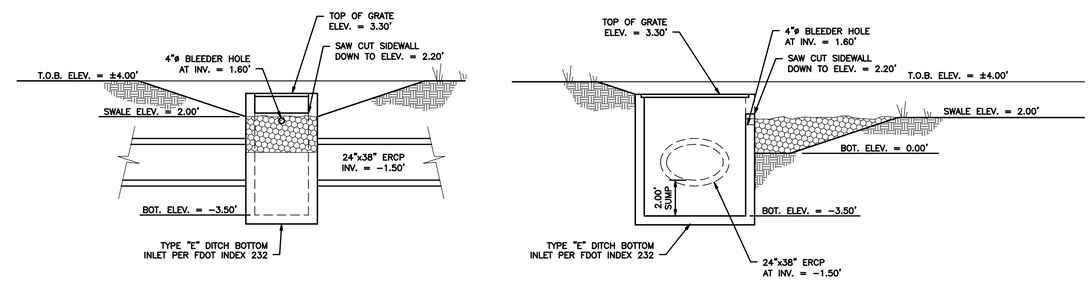
1. **Open the hatches or manholes on top of the Baffle Box.**
2. **Vacuum the debris and sediment accumulated on the screen system.**
3. **Swing open the screen system to expose the sediment collection chambers.**
4. **Vacuum the sediment collected in each of the chambers.**
5. **Inspect the oil skimmer system Storm Boom for oil accumulation. Change Storm Boom if significantly contaminated.**
6. **Swing down the screen system, and close the hatches or replace the manhole covers.**



SECTION THRU 12" TALL SLOT
SCALE: 1"=2'



SECTION THRU 6" TALL SLOT
SCALE: 1"=2'



DETAILS OF STRUCTURES 32A & 32-B
SCALE: 1"=4'

NO.	DESCRIPTION	DATE
1	ADD BAFFLE BOX SERVICE PROCEDURES	3-19-09

REVISIONS

ECT
Environmental Consulting & Technology, Inc.
4100 Center Pointe Drive, Suite 112
Fort Myers, FL 33916
(239) 277-2003
CA#5520

CLIENT:
TOWN OF FORT MYERS BEACH
2523 ESTERO BLVD.
FORT MYERS BEACH, FL 33931
(239) 765-0202

PROJECT:
NORTH ESTERO BLVD. DRAINAGE IMPROVEMENTS
TOWN OF FORT MYERS BEACH
LEE COUNTY, FLORIDA

SHEET TITLE:
MISC. DETAILS

DATE:	DECEMBER 2008
PROJECT NO:	05-0722
FILE NO:	24-46-23
SCALE:	AS SHOWN

SHEET NUMBER
C-14

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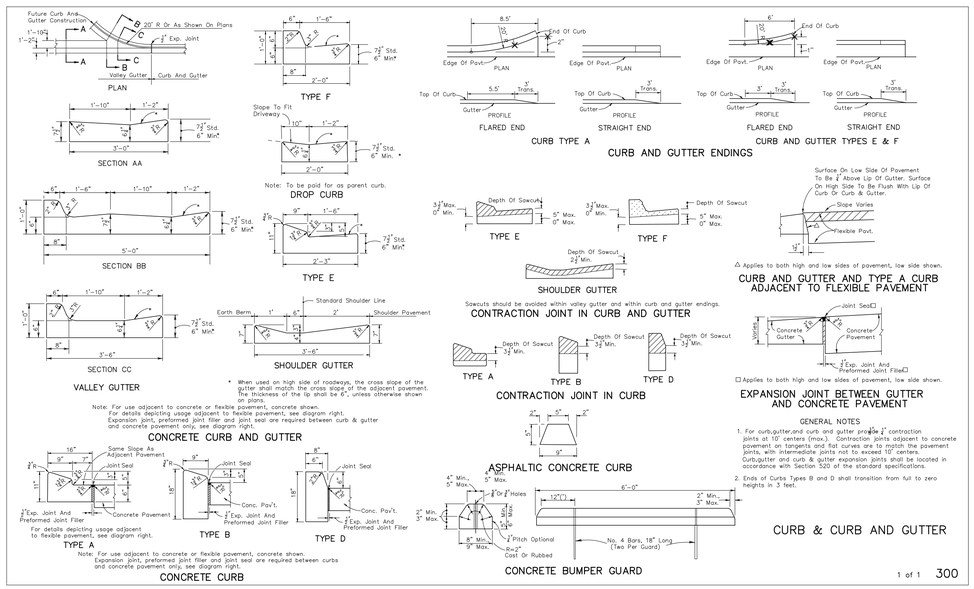
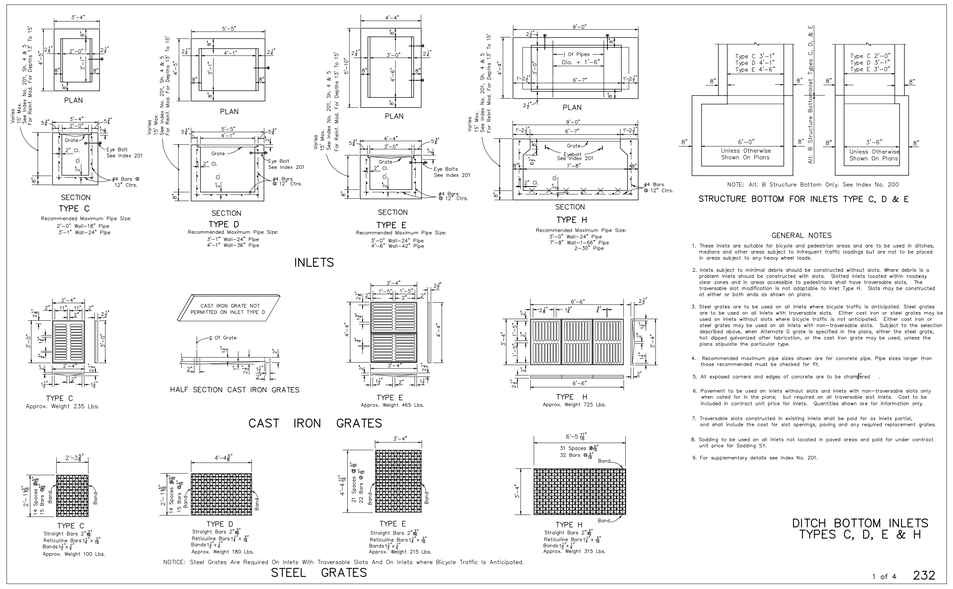


GENERAL NOTES

1. For curb,gutter,and curb and gutter provide 2" contraction joints at 10' centers (max.). Contraction joints adjacent to concrete pavement on tangents and flat curves are to match the pavement joints, with intermediate joints not to exceed 10' centers. Curb,gutter and curb & gutter expansion joints shall be located in accordance with Section 520 of the standard specifications.
2. Ends of Curbs Types B and D shall transition from full to zero heights in 3 feet.

1 of 1 300



NOTICE: Steel Grates Are Required On Inlets With Traversable Slots And On Inlets where Bicycle Traffic Is Anticipated.

STRUCTURE BOTTOM FOR INLETS TYPE C, D & E

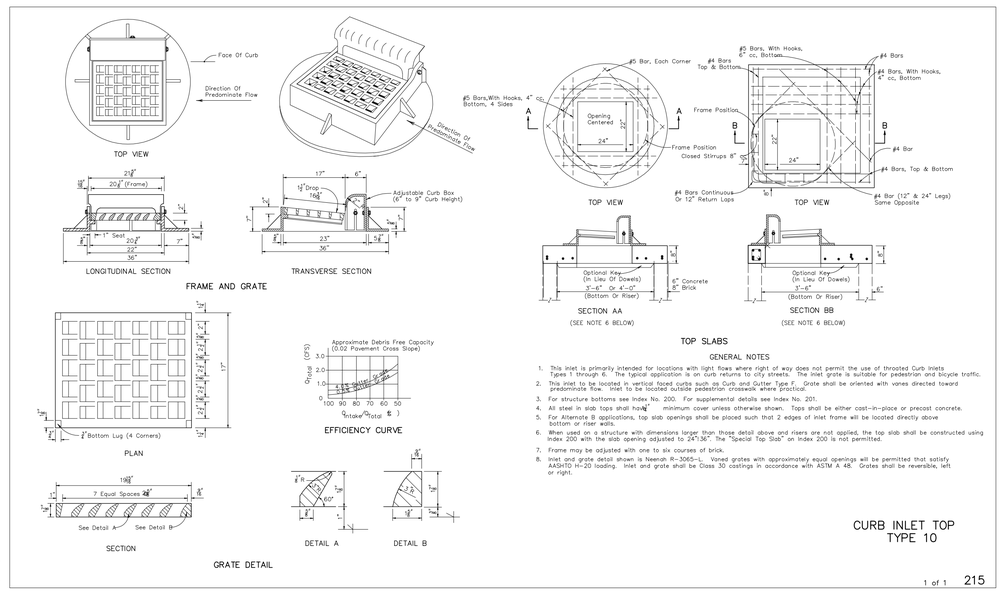
NOTE: Alt. B Structure Bottom Only. See Index No. 200

GENERAL NOTES

1. These inlets are suitable for bicycle and pedestrian areas and are to be used in ditches, medians and other areas subject to infrequent traffic loadings but are not to be placed in areas subject to any heavy wheel loads.
2. Inlets subject to minimal debris should be constructed without slots. Where debris is a problem inlets should be constructed with slots. Slotted inlets located within roadway clear zones and in areas accessible to pedestrians shall have traversable slots. The traversable slots are required for inlets available to Inlet Type H. Slots may be constructed at either or both ends as shown on plans.
3. Steel grates are to be used on all inlets where bicycle traffic is anticipated. Steel grates are to be used on all inlets with traversable slots. Either cast iron or steel grates may be used on inlets without slots where bicycle traffic is not anticipated. Either cast iron or steel grates may be used on all inlets with non-traversable slots. Subject to the selection described above, when Alternate G grate is specified in the plans, either the steel grate, hot dipped galvanized after fabrication, or the cast iron grate may be used, unless the plans stipulate the particular type.
4. Recommended maximum pipe sizes shown are for concrete pipe. Pipe sizes larger than those recommended must be checked for fit.
5. All exposed corners and edges of concrete are to be chamfered .
6. Pavement to be used on inlets without slots and inlets with non-traversable slots only when called for in the plans; but required on all traversable slot inlets. Cost to be included in contract unit price for inlets. Quantities shown are for information only.
7. Traversable slots constructed in existing inlets shall be paid for as inlets partial, and shall include the cost for slot openings, paving and any required replacement grates.
8. Sodding to be used on all inlets not located in paved areas and paid for under contract unit price for Sodding SY.
9. For supplementary details see Index No. 201.

DITCH BOTTOM INLETS
TYPES C, D, E & H

1 of 4 232

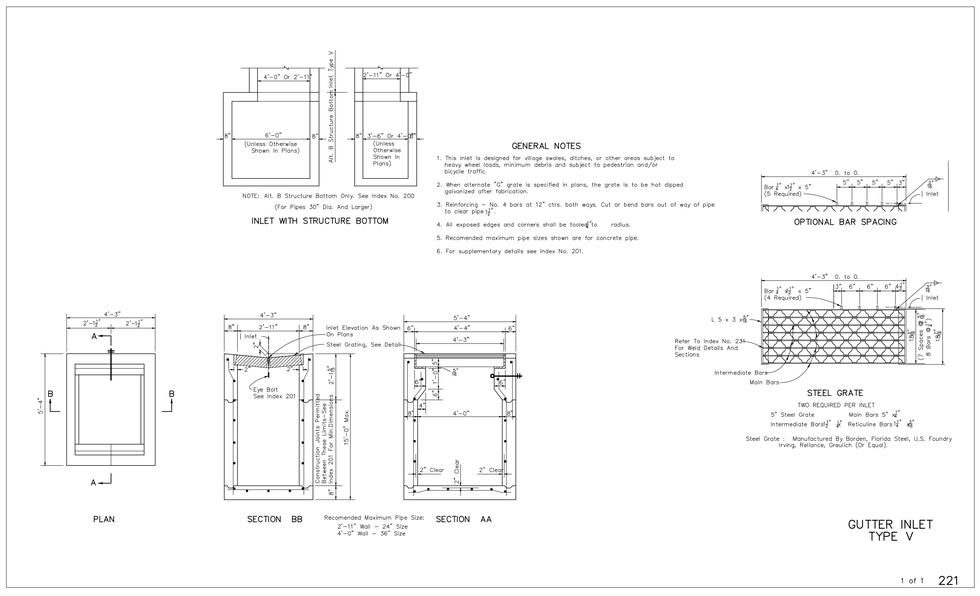


GENERAL NOTES

1. This inlet is primarily intended for locations with light flows where right of way does not permit the use of throated Curb Inlets Types 1 through 6. The typical application is on curb returns to city streets. The inlet grate is suitable for pedestrian and bicycle traffic.
2. This inlet to be located in vertical faced curbs such as Curb and Gutter Type F. Grate shall be oriented with vanes directed toward predominate flow. Inlet to be located outside pedestrian crosswalk where practical.
3. For structure bottoms see Index No. 200. For supplemental details see Index No. 201.
4. All steel in slab tops shall have 1" minimum cover unless otherwise shown. Tops shall be either cast-in-place or precast concrete.
5. For Alternate B applications, top slab openings shall be placed such that 2 edges of inlet frame will be located directly above bottom or riser walls.
6. When used on a structure with dimensions larger than those detail above and risers are not applied, the top slab shall be constructed using Index 200 with the slab opening adjusted to 24"x36". The "Special Top Slab" on Index 200 is not permitted.
7. Frame may be adjusted with one to six courses of brick.
8. Inlet and grate detail shown is Neenah R-3065-L. Vaned grates with approximately equal openings will be permitted that satisfy AASHTO H-20 loading. Inlet and grate shall be Class 30 castings in accordance with ASTM A 48. Grates shall be reversible, left or right.

CURB INLET TOP
TYPE 10

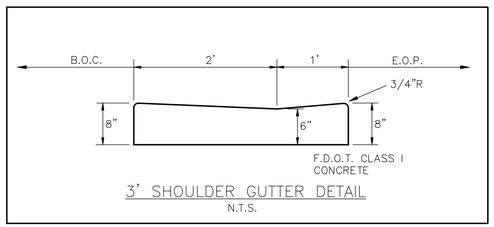
1 of 1 215



GENERAL NOTES

1. This inlet is designed for village swales, ditches, or other areas subject to heavy wheel loads, minimum debris and subject to pedestrian and/or bicycle traffic.
2. When alternate "G" grate is specified in plans, the grate is to be hot dipped galvanized after fabrication.
3. Reinforcing – No. 4 bars at 12" ctrs. both ways. Cut or bend bars out of way of pipe to clear pipe 1/2".
4. All exposed edges and corners shall be tooled 1/2" to radius.
5. Recomended maximum pipe sizes shown are for concrete pipe.
6. For supplementary details see Index No. 201.

1 of 1 221



3' SHOULDER GUTTER DETAIL
N.T.S.

REVISIONS		
NO.	DESCRIPTION	DATE

ECT
Environmental Consulting & Technology, Inc.
4100 Center Pointe Drive, Suite 112
Fort Myers, FL 33916
(239) 277-0003
CA#5520

R.M. EDENFIELD
FLORIDA P.E. #46200

CLIENT:
TOWN OF
FORT MYERS BEACH
2523 ESTERO BLVD.
FORT MYERS BEACH, FL 33931
(239) 765-0202

PROJECT:
NORTH ESTERO BLVD.
DRAINAGE IMPROVEMENTS
TOWN OF FORT MYERS BEACH
LEE COUNTY, FLORIDA

SHEET TITLE:
FDOT DETAILS

DATE:	DECEMBER 2008
PROJECT NO:	05-0722
FILE NO:	24-46-23
SCALE:	NONE

SHEET NUMBER
C-15

S:\ENGINEERING PROJECTS\MB\Estero Blvd\North Estero\BID SET\050722-BID-DETAIL-FDOTplans.dwg(1) Aug 01, 2008 - 9:24am bsanson

RECORD DRAWINGS
TOWN OF FORT MYERS BEACH
WATER MAIN REPLACEMENT AND DRAINAGE IMPROVEMENTS FOR THE BASIN BASED NEIGHBORHOOD PHASE-1A

FOR

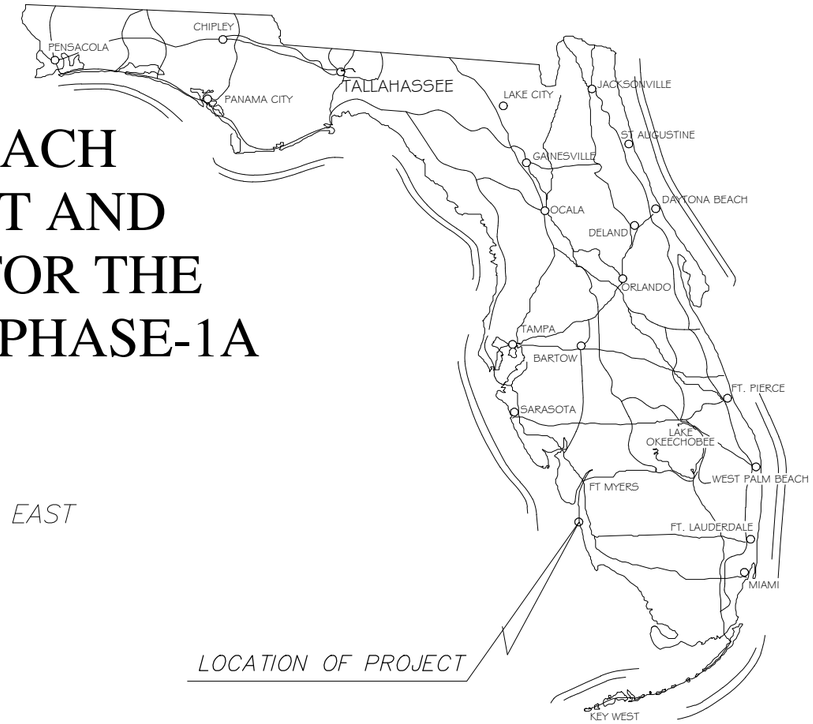
Town of Fort Myers Beach

LOCATED IN

SECTION 19, TOWNSHIP 46 SOUTH, RANGE 24 EAST

LEE COUNTY, FLORIDA

FEBRUARY 19, 2015



INDEX OF SHEETS	
SHEET	TITLE
01	Cover
02	Notes & Legends
Plan & Profile	
03	Tropical Shores Way Station -0+50_to_7+00
04	Tropical Shores Way Station 7+00_to_18+50
05	Mango Street Station -0+50_to_9+00
06	Mango Street Station 9+00_to_17+00
07	Fairweather Lane Station -0+50_to_9+50
08	Fairweather Lane Station 9+50_to_17+50
09	Delmar Avenue Station -0+50_to_10+00
10	Delmar Avenue Station 10+00_to_16+50
11	Pearl Street Station -0+50_to_10+00
12	Pearl Street Station 10+00_to_16+00
13	Bayview Drive & Alley between Bayview & Estero Blvd.
14	Gulf Beach Road Station -0+50_to_6+50

PROJECT SITE

LOCATION MAP

N.T.S.

N
W E
S

RECORD DRAWING
February 19, 2015

For Information Regarding This Project, Contact:

Michael S. Dickey, PE (Water Main)

Ricardo Acosta, PE (Drainage)

MICHAEL S. DICKEY, PE FL License No. 60057	RICARDO ACOSTA, PE FL License No. 69121

DESIGN CONSULTANT

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FL License No. 69121

FOR WATER MAIN
MICHAEL S. DICKEY, PE
FL License No. 60057

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1A
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE

DATE:	FEBRUARY 19, 2015
PROJECT NO.	20139512-000
FILE NO.	19-46-24
SCALE:	As Shown

COVER

RECORD DRAWINGS

SHEET NUMBER

01

\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000_Phase 1a - AsBuilt.dwg (Notes and Legends) MNT Feb 19, 2015 - 9:21am

N

0 100 200 400

(INTENDED DISPLAY SCALE: 1"=200')

NOTICE TO ALL CONTRACTORS

IT'S THE LAW IN FLORIDA
2 BUSINESS DAYS BEFORE YOU DIG
CALL SUNSHINE 1-800-432-4770

STATE, COUNTIES & CITIES ARE "NOT"
PART OF THE ONE CALL SYSTEM.
THEY MUST BE CALLED INDIVIDUALLY.

STATE OF FLORIDA DOT
ALL INTERSTATE RIGHT-OF-WAY
HIGHMAST LIGHTING
7-DAY NOTICE REQUIRED
239-656-7811
239-656-7742 FAX

BEFORE YOU DIG
STOP
CALL SUNSHINE
1-800-432-4770

SEPARATION OF WATER AND SEWER LINES

Minimum Separation Distance	Between The Outside Of The Water Main And The Outside Of Any Existing Or Proposed
	HORIZONTAL SEPARATION OF PIPELINES
Three feet	Storm sewer, stormwater force main, or reclaimed water main
Three feet, and preferably ten feet	Vacuum-type sanitary sewer.
Six feet, and preferably ten feet	Gravity- or pressure-type sanitary sewer, wastewater force main, or reclaimed water main not regulated under part III of chapter 62-610, F.A.C. The minimum horizontal separation distance between water mains and gravity-type sanitary sewers shall be reduced to three feet where the bottom of the water main is laid at least six inches above the top of the sewer.
Ten feet	"On-site sewage treatment and disposal system"
	VERTICAL SEPARATION OF PIPELINES
Minimum Separation Distance From The (Outside To The Outside)	New Or Relocated, Underground Water Mains Crossing Any Existing Or Proposed
Six inches, and preferably 12 inches above	Gravity- or vacuum-type sanitary sewer or storm sewer
12 inches below	Gravity- or vacuum-type sanitary sewer or storm sewer
12 inches above or below	Pressure-type sanitary sewer, wastewater, stormwater force main, or pipeline conveying reclaimed water main

One full length of water main pipe shall be centered above or below the other pipeline so the water main joints will be as far as possible from the other pipeline.

Alternatively, the pipes shall be arranged so that all water main joints are at least three feet from all joints in vacuum-type sanitary sewers, storm sewers, stormwater force mains, or reclaimed water mains, and at least six feet from all joints in gravity- or pressure-type sanitary sewers, wastewater force mains, or reclaimed water mains.

ELEVATION NOTES:

1. Elevations shown are in North American Vertical Datum of 1988 (NAVD88).
2. 10-year Stillwater Elevation for Ostego Bay = 2.5 ft (NAVD88).
3. 10-year Stillwater elevation for the Gulf of Mexico = 4.9 ft (NAVD88).
4. Mean High Water Elevation for Ostego Bay = 0.14 ft (NAVD88).

ALTERNATE CONSTRUCTION

Where an underground water main is being laid less than the required minimum horizontal distance from another pipeline and where an underground water main is crossing another pipeline and joints in the water main are being located less than the required minimum distance from joints in the other pipeline

1. Use of pressure-rated pipe conforming to the American Water Works Association standards incorporated into Rule 62-555.330, F.A.C., for the other pipeline if it is a gravity- or vacuum-type pipeline;
2. Use of welded, fused, or otherwise restrained joints for either the water main or the other pipeline; or
3. Use of watertight casing pipe or concrete encasement at least four inches thick for either the water main or the other pipeline.

Where an underground water main is being laid less than three feet horizontally from another pipeline and where an underground water main is crossing another pipeline and is being laid less than the required minimum vertical distance from the other pipeline

1. Use of pipe, or casing pipe, having high impact strength (i.e., having an impact strength at least equal to that of 0.25-inch-thick ductile iron pipe) or concrete encasement at least four inches thick for the water main; and
2. Use of pipe, or casing pipe, having high impact strength (i.e., having an impact strength at least equal to that of 0.25-inch-thick ductile iron pipe) or concrete encasement at least four inches thick for the other pipeline if it is new and is conveying wastewater or reclaimed water.

MISC. NOTES:

1. Vertical saw cuts through existing pavement and base material are required where new pavement matches to existing pavement.

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FL License No. 69121

FOR WATER MAIN
MICHAEL S. DICKEY, PE
FL License No. 60057

Town of FORT MYERS BEACH FLORIDA

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1A
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE

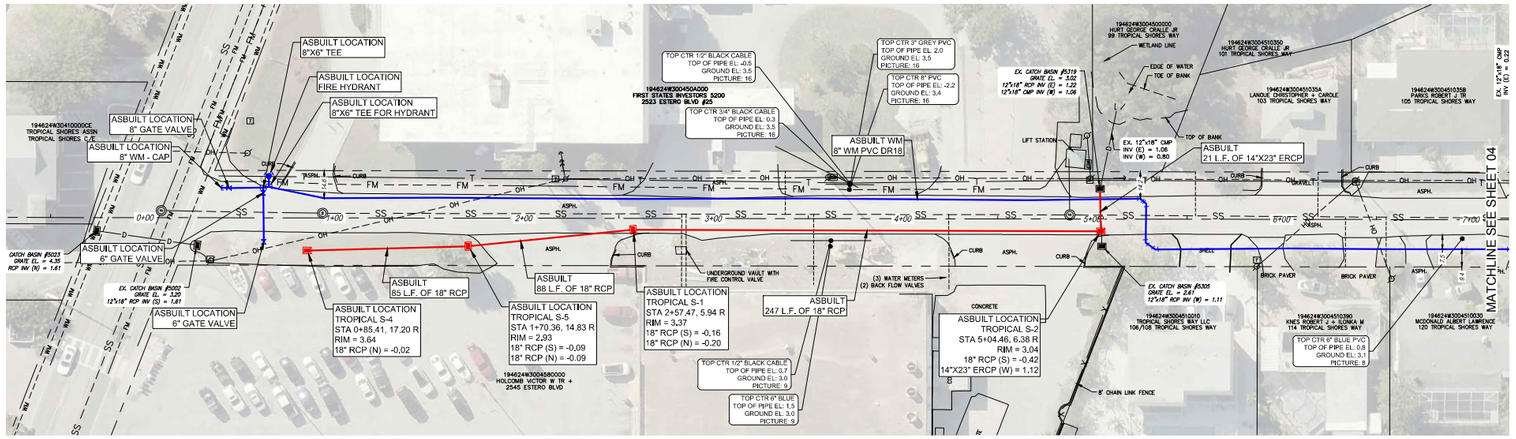
DATE:	FEBRUARY 19, 2015
PROJECT NO.	20139512-000
FILE NO.	19-46-24
SCALE:	As Shown

NOTES & LEGENDS

RECORD DRAWINGS

SHEET NUMBER

02



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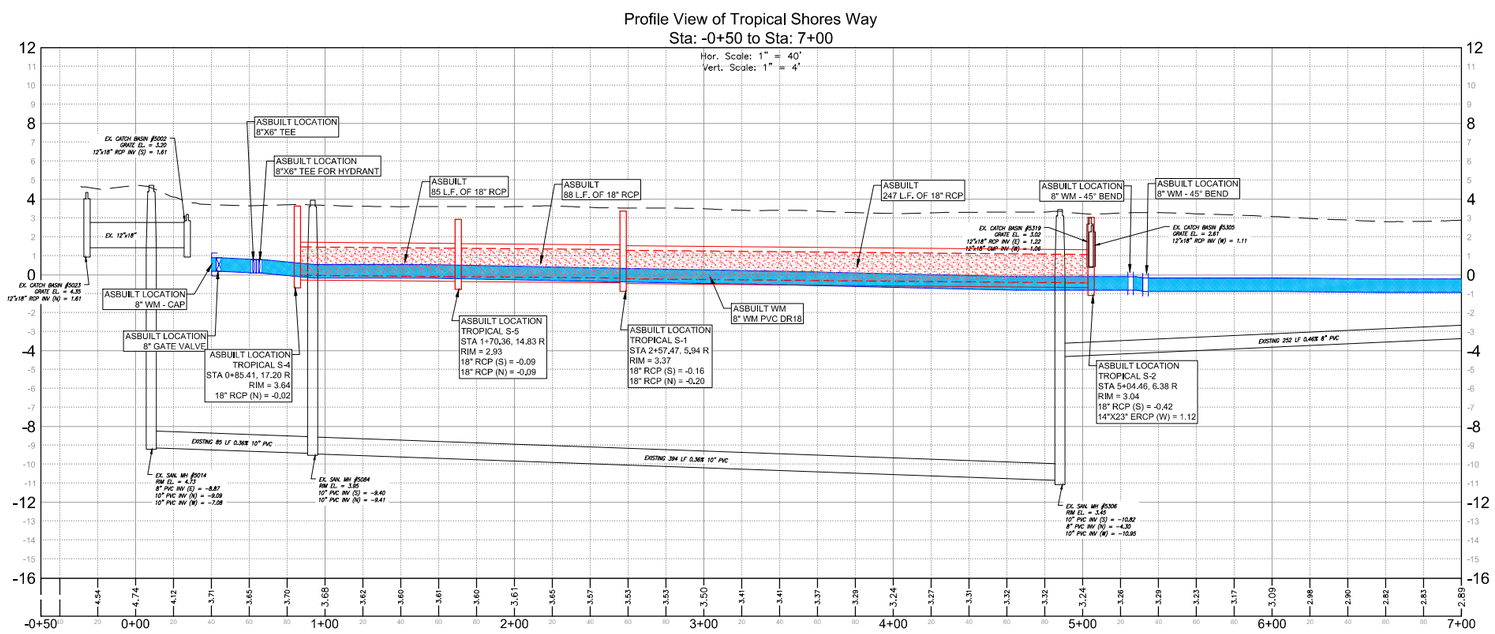

RECORD DRAWING

PLAN VIEW
- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

PROFILE VIEW
- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

JOHNSON ENGINEERING
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RECORD DRAWINGS
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PHASE-1A
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE

DATE:	FEBRUARY 19, 2015
PROJECT NO.	20139512-000
FILE NO.	19-46-24
SCALE:	As Shown

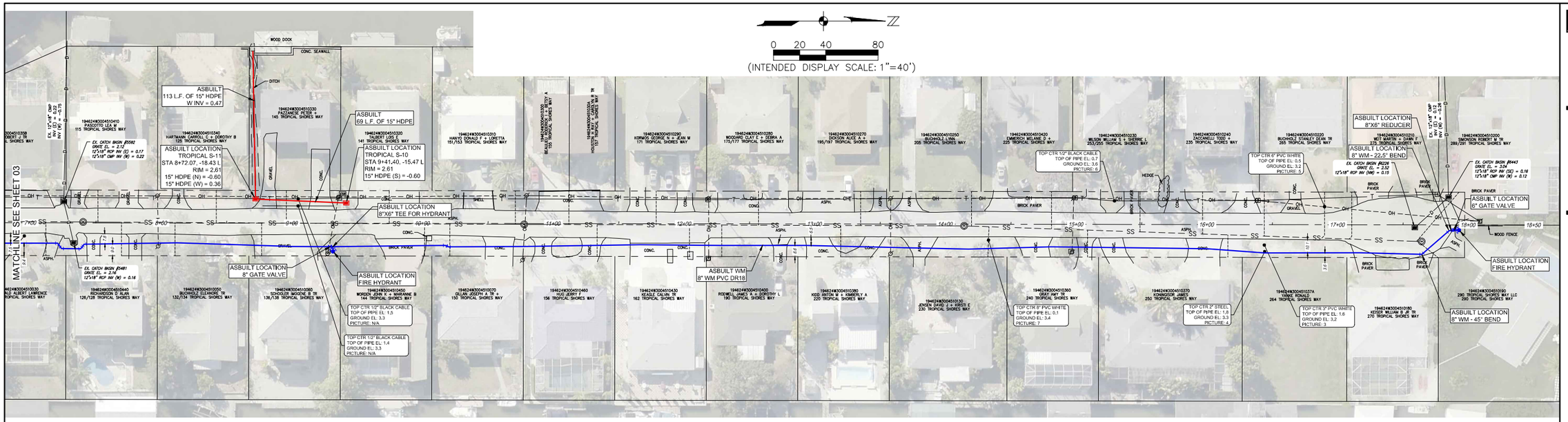
PLAN & PROFILE
TROPICAL SHORES
WAY STATION
-0+50_TO_7+00

RECORD DRAWINGS

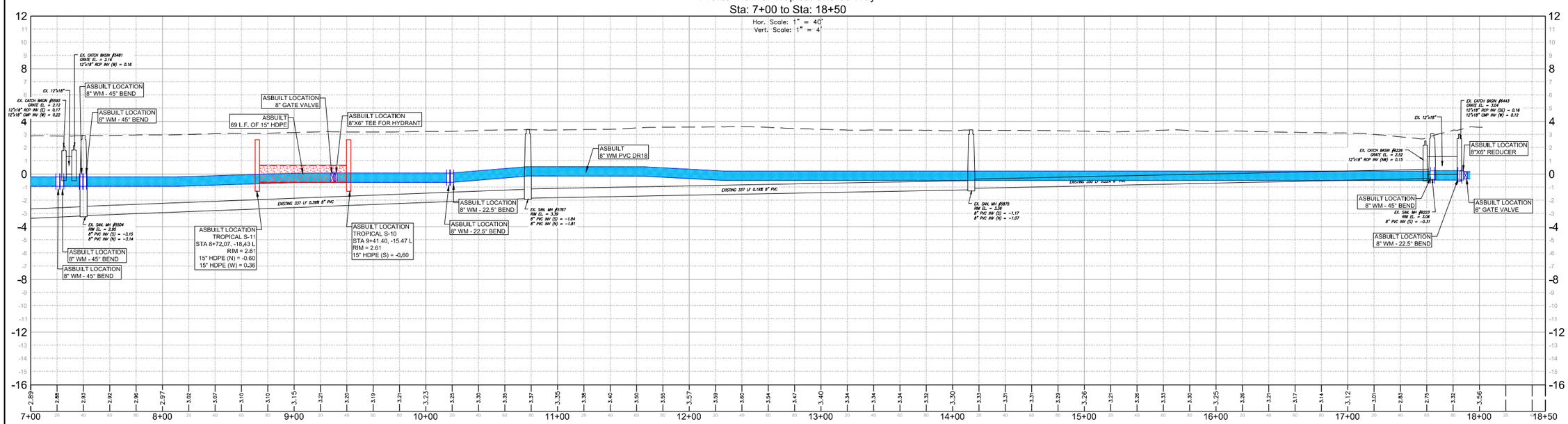
SHEET NUMBER

03

\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000_Phase 1a - AsBuilt.dwg (PP (3)) MNT Feb 19, 2015 - 9:21am



Profile View of Tropical Shores Way
Sta: 7+00 to Sta: 18+50



RECORD DRAWING

PLAN VIEW
- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

PROFILE VIEW
- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000_Phase 1a - AsBuilt.dwg (PP (4)) MNT Feb 19, 2015 - 9:21am

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RECORD DRAWINGS
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PHASE-1A
LEE COUNTY, FLORIDA

REVISIONS

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FILE NO.	19-46-24
SCALE:	As Shown

PLAN & PROFILE
TROPICAL SHORES
WAY STATION
7+00_TO_18+50

RECORD DRAWINGS

SHEET NUMBER

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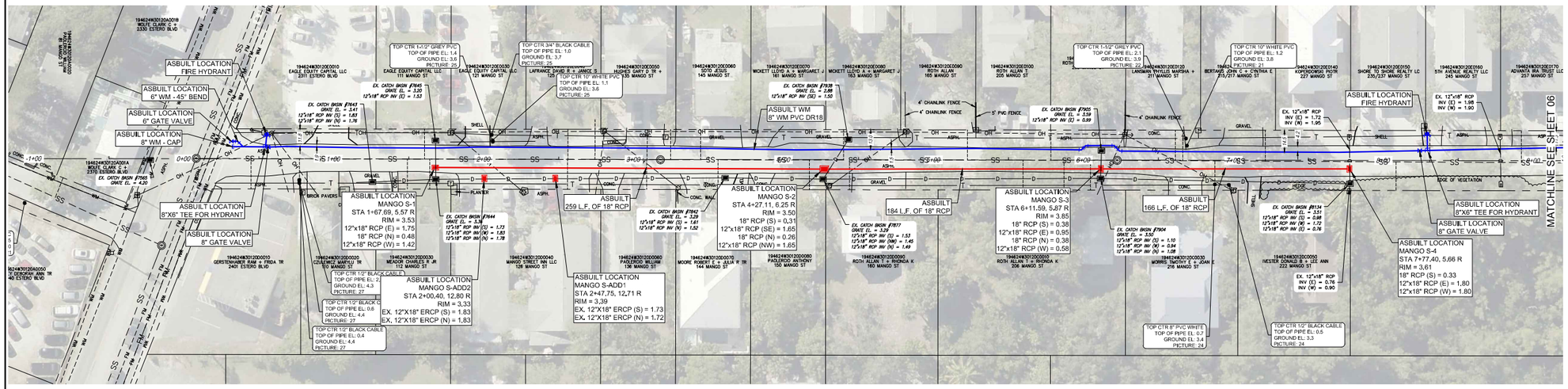
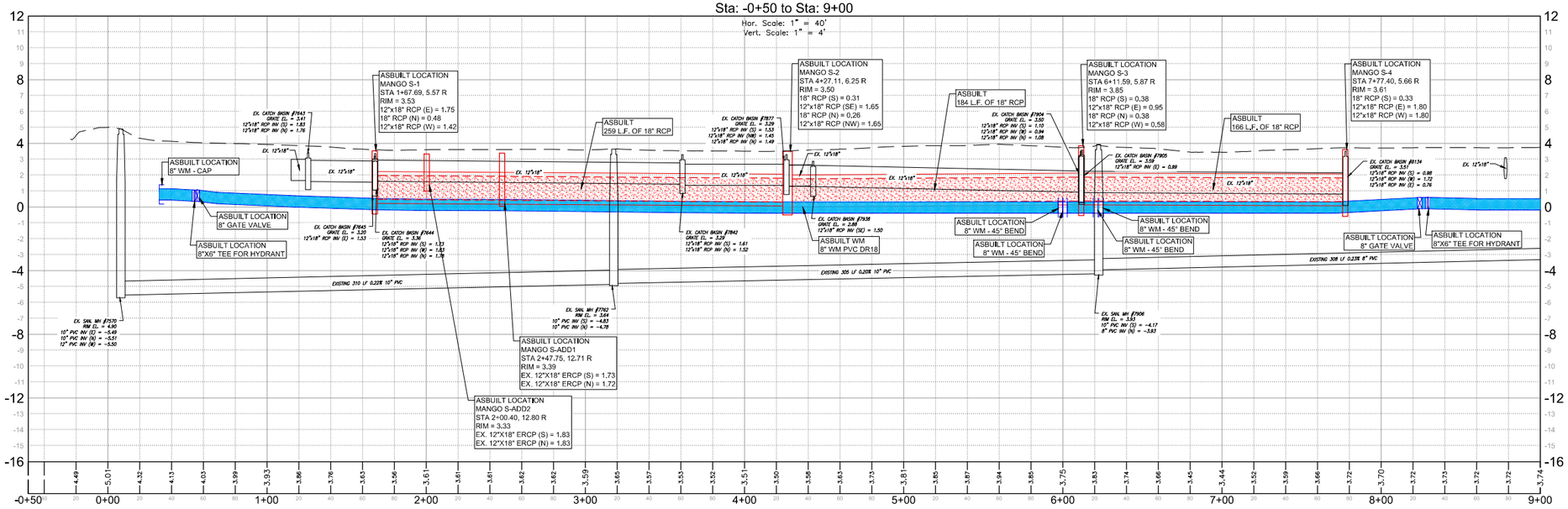


Profile View of Mango Street
Sta: -0+50 to Sta: 9+00

Hor. Scale: 1" = 40'
Vert. Scale: 1" = 4'



RECORD DRAWING

PLAN VIEW
AS-BUILT DRAINAGE
AS-BUILT WATER MAIN

PROFILE VIEW
AS-BUILT DRAINAGE
AS-BUILT WATER MAIN

JOHNSON ENGINEERING
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Town of FORT MYERS BEACH FLORIDA

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1A
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE

DATE:	FEBRUARY 19, 2015
PROJECT NO.	20139512-000
FILE NO.	19-46-24
SCALE:	As Shown

PLAN & PROFILE
MANGO STREET
STATION -0+50_TO_9+00

RECORD DRAWINGS

SHEET NUMBER

05

\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000_Phase 1a - AsBuilt.dwg (PP (5)) MNT Feb 19, 2015 - 9:22am

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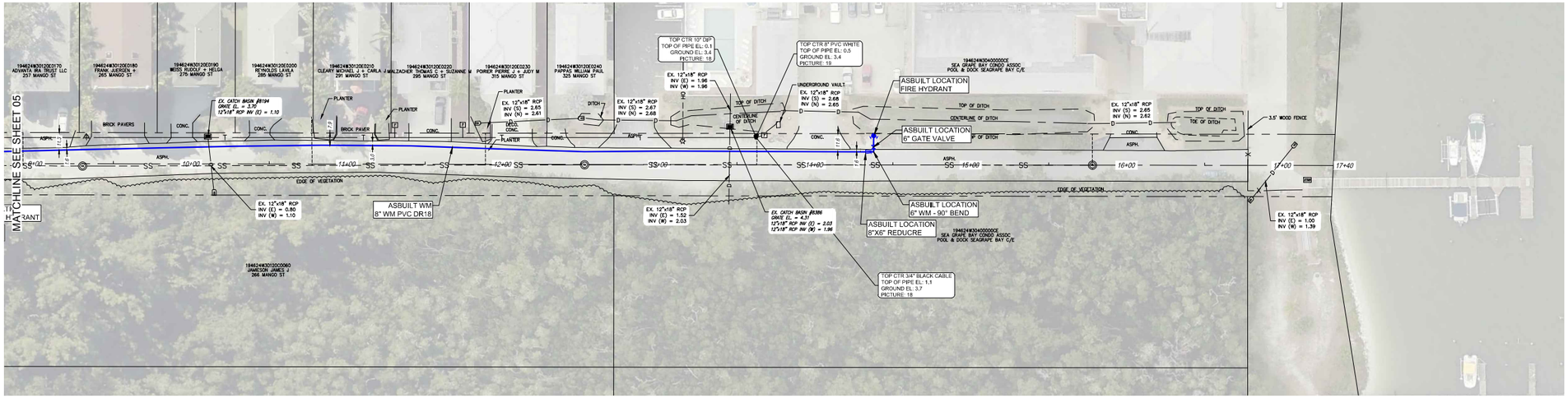
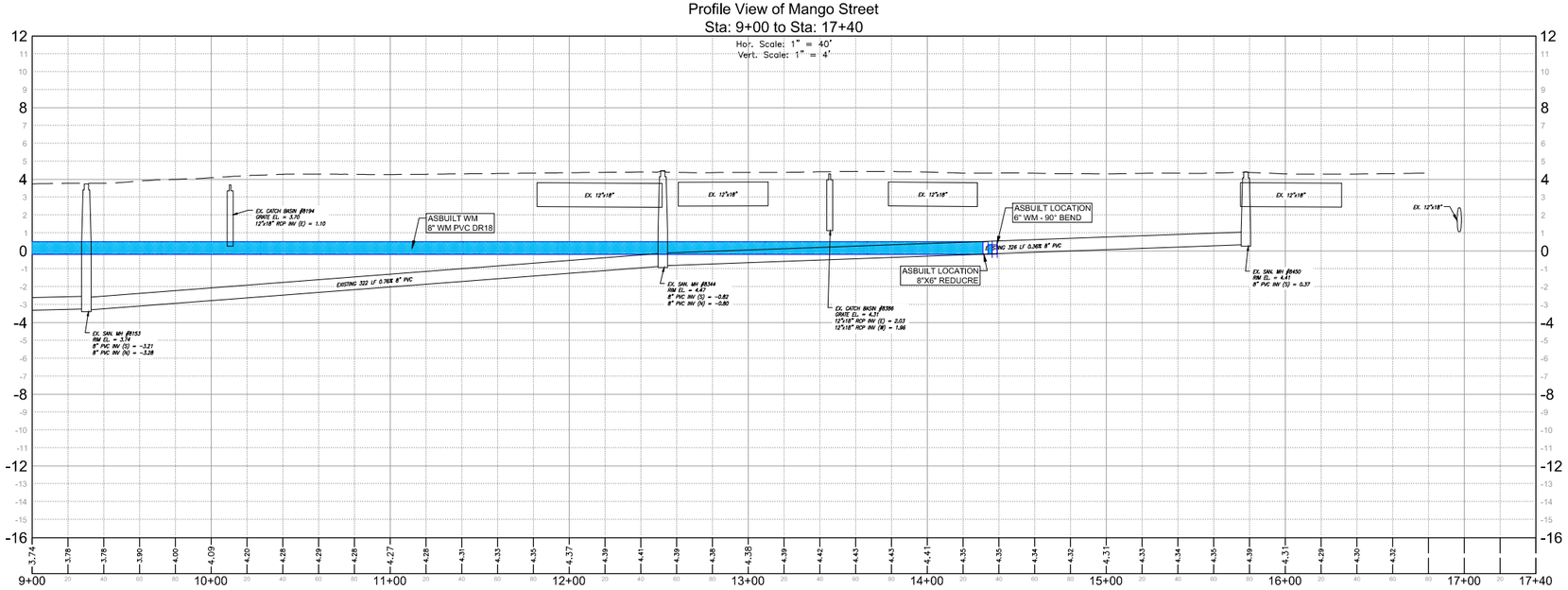


Profile View of Mango Street
Sta: 9+00 to Sta: 17+40

Hor. Scale: 1" = 40'
Vert. Scale: 1" = 4'



RECORD DRAWING

PLAN VIEW
- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

PROFILE VIEW
- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

JOHNSON ENGINEERING
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FOR WATER MAIN
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Town of FORT MYERS BEACH FLORIDA

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1A
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE

DATE: FEBRUARY 19, 2015
PROJECT NO. 20139512-000
FILE NO. 19-46-24
SCALE: As Shown

PLAN & PROFILE
MANGO STREET
STATION
9+00_TO_17+00

RECORD DRAWINGS

SHEET NUMBER

06

\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000_Phase 1a - AsBuilt.dwg (PP (6)) MNT Feb 19, 2015 - 9:22am

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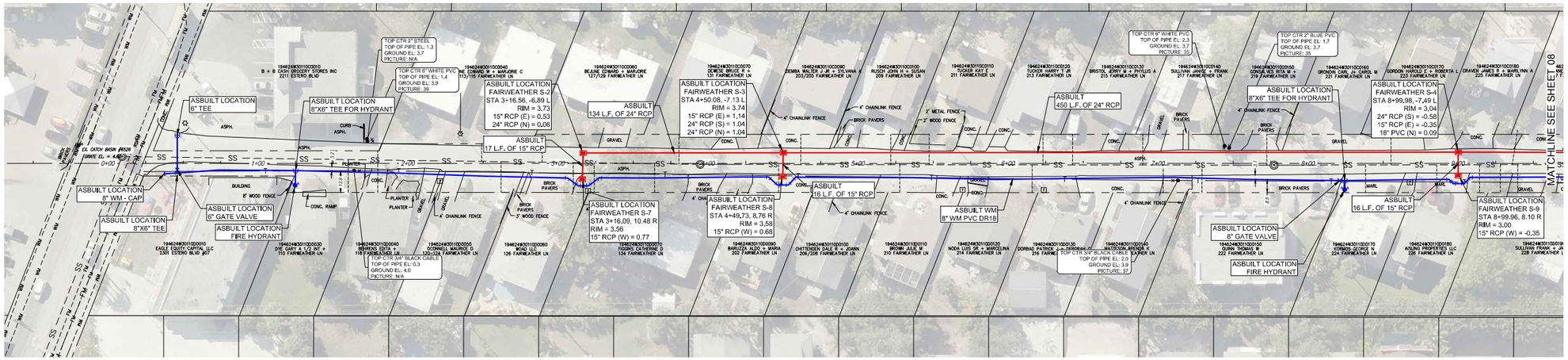
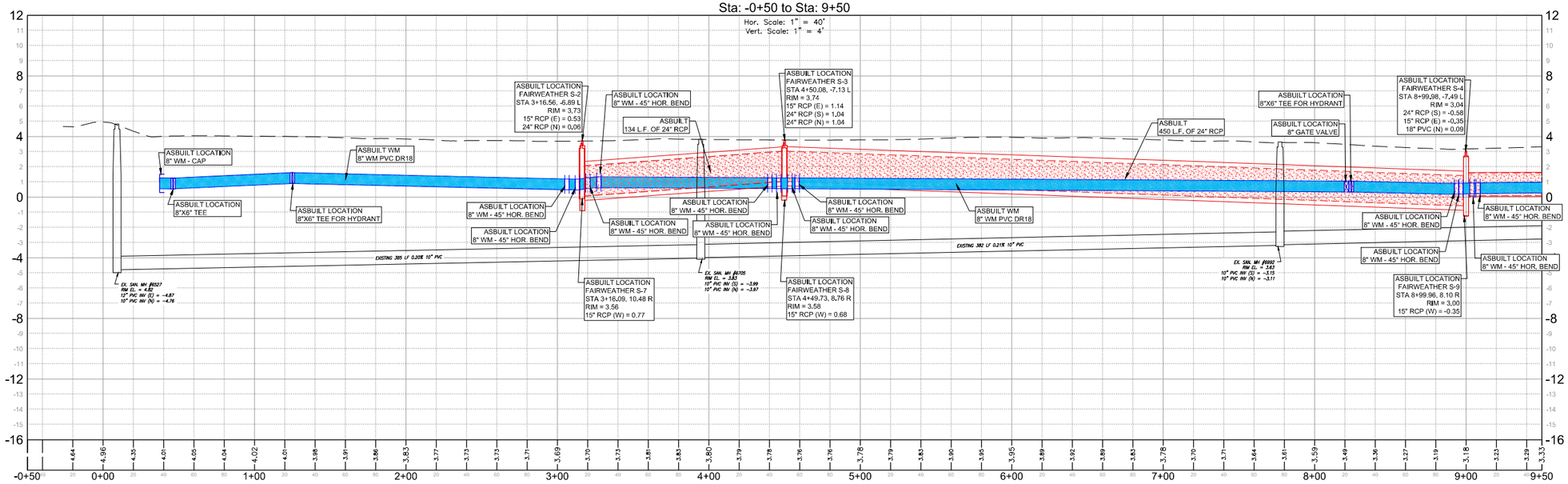


Profile View of Fairweather Lane
Sta: -0+50 to Sta: 9+50



RECORD DRAWING

PLAN VIEW
- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

PROFILE VIEW
- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000_Phase 1a - AsBuilt.dwg (PP (7)) MNT Feb 19, 2015 - 9:22am

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Town of FORT MYERS BEACH FLORIDA

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1A
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE

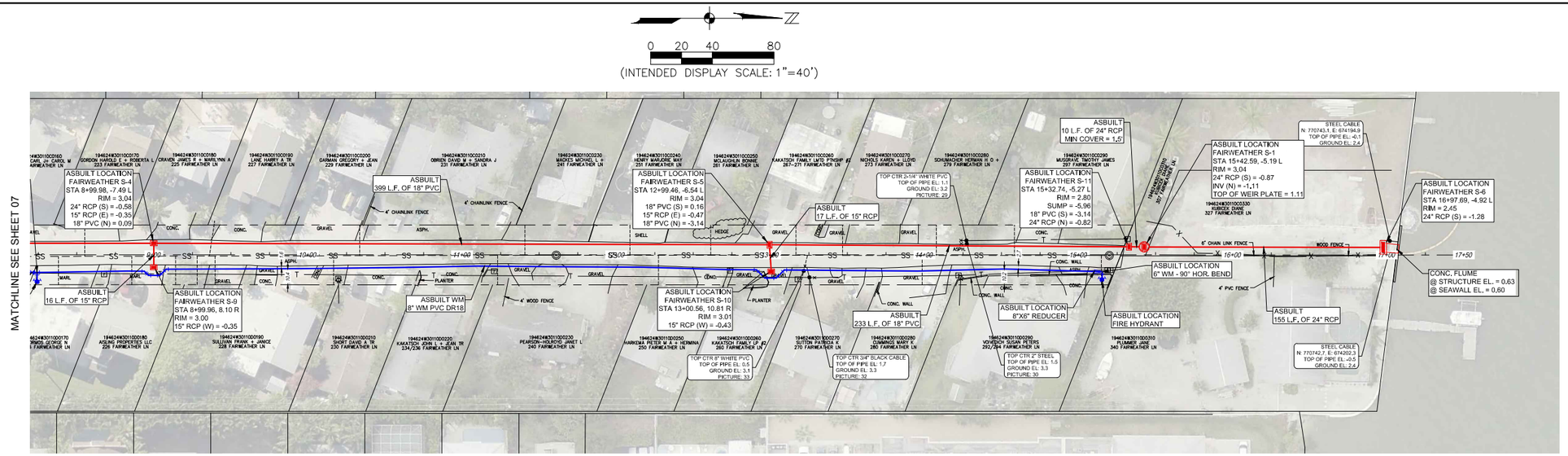
DATE:	FEBRUARY 19, 2015
PROJECT NO.	20139512-000
FILE NO.	19-46-24
SCALE:	As Shown

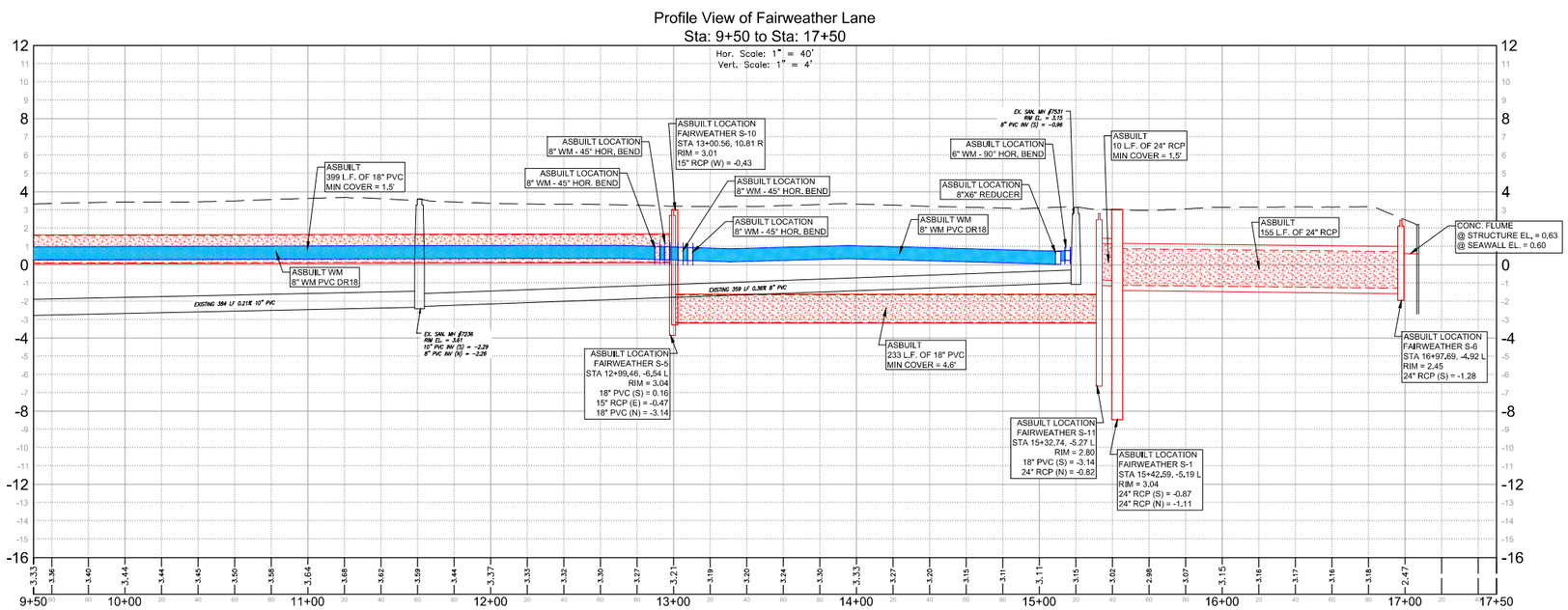
PLAN & PROFILE
FAIRWEATHER LANE
STATION -0+50_TO_9+50

RECORD DRAWINGS

SHEET NUMBER

07





RECORD DRAWING

PLAN VIEW
AS-BUILT DRAINAGE
AS-BUILT WATER MAIN

PROFILE VIEW
AS-BUILT DRAINAGE
AS-BUILT WATER MAIN

JOHNSON ENGINEERING
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Town of FORT MYERS BEACH FLORIDA

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WATER MAIN REPLACEMENT AND
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PHASE-1A
LEE COUNTY, FLORIDA

REVISIONS

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PLAN & PROFILE
FAIRWEATHER LANE
STATION
9+50_TO_17+50

RECORD DRAWINGS

SHEET NUMBER

08

\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000_Phase 1a - AsBuilt.dwg (PP (8)) MNT Feb 19, 2015 - 9:22am

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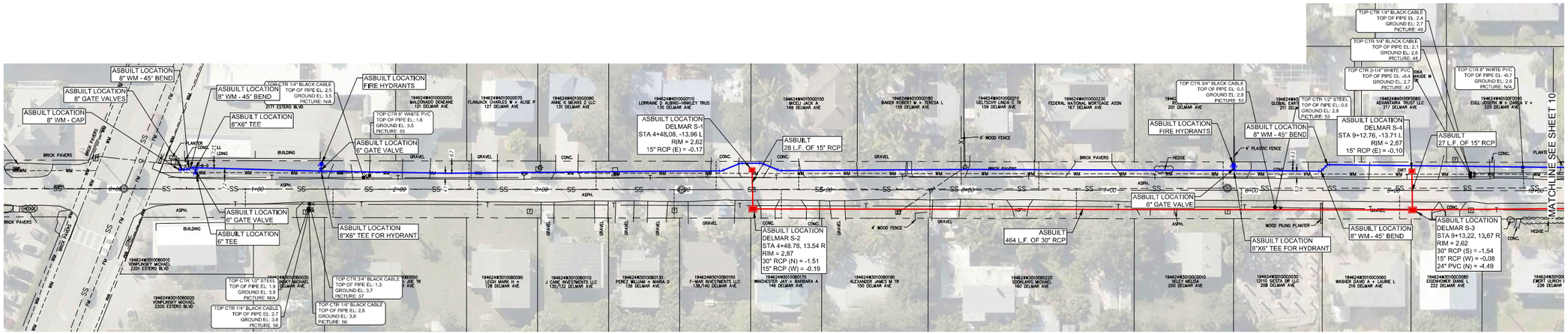
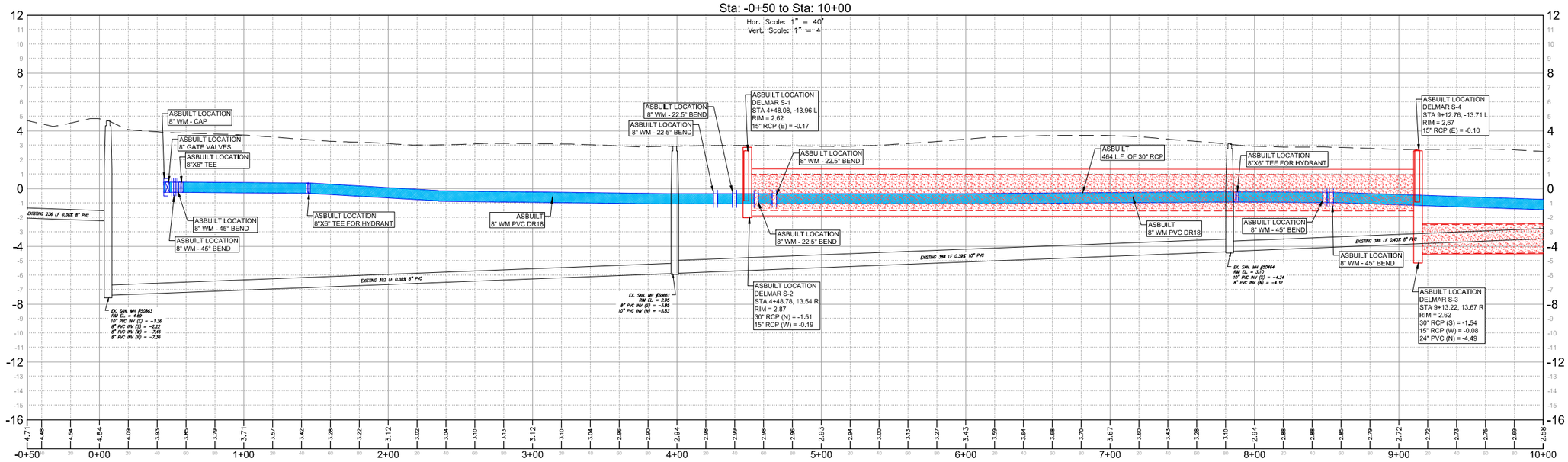


Profile View of Delmar Avenue
Sta: -0+50 to Sta: 10+00

Hor. Scale: 1" = 40'
Vert. Scale: 1" = 4'



RECORD DRAWING

PLAN VIEW
AS-BUILT DRAINAGE
AS-BUILT WATER MAIN

PROFILE VIEW
AS-BUILT DRAINAGE
AS-BUILT WATER MAIN

JOHNSON ENGINEERING
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FAX (239) 334-3661
E.B. #642 & L.B. #642

FOR DRAINAGE
RICARDO ACOSTA, PE
FL License No. 69121

FOR WATER MAIN
MICHAEL S. DICKEY, PE
FL License No. 60057

Town of FORT MYERS BEACH FLORIDA

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1A
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE

DATE:	FEBRUARY 19, 2015
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SCALE:	As Shown

PLAN & PROFILE
DELMAR AVENUE
STATION
-0+50_TO_10+00

RECORD DRAWINGS

SHEET NUMBER

09

\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000_Phase 1a - AsBuilt.dwg (PP (9)) MNT Feb 19, 2015 - 9:23am

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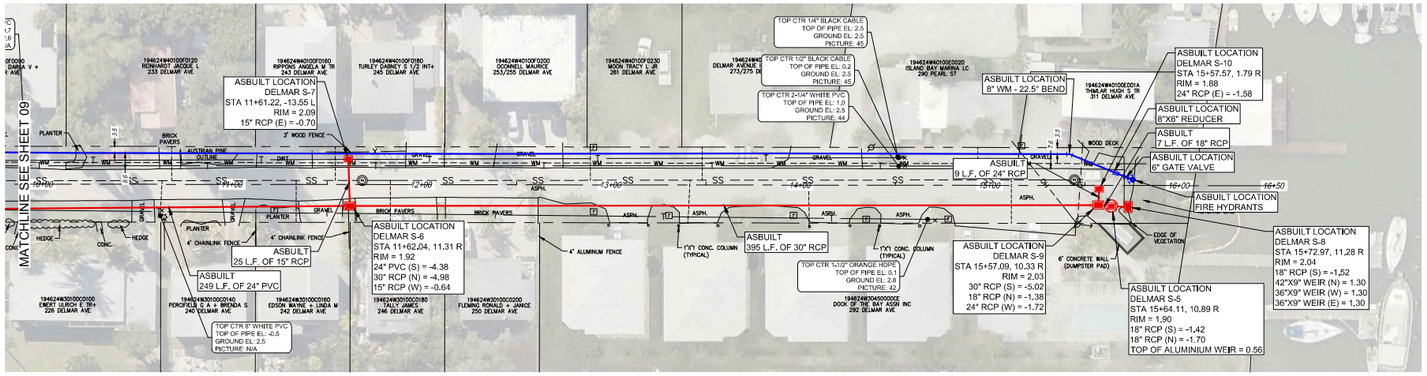
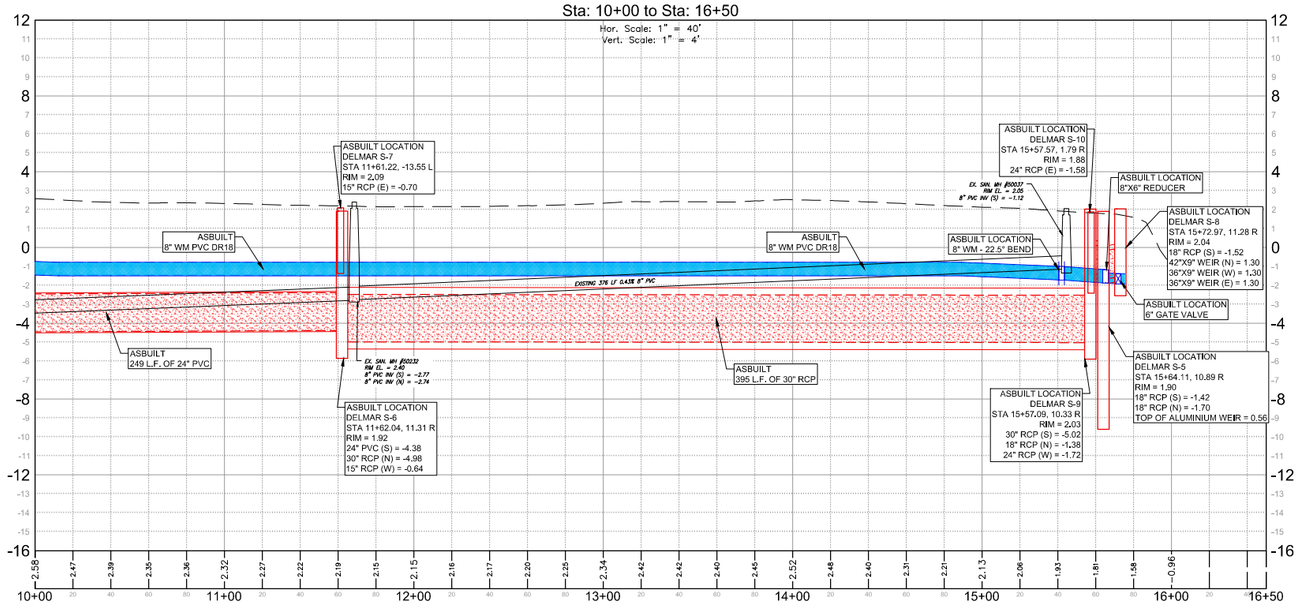


Profile View of Delmar Avenue
Sta: 10+00 to Sta: 16+50



RECORD DRAWING

PLAN VIEW
AS-BUILT DRAINAGE
AS-BUILT WATER MAIN

PROFILE VIEW
AS-BUILT DRAINAGE
AS-BUILT WATER MAIN

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RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1A
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE

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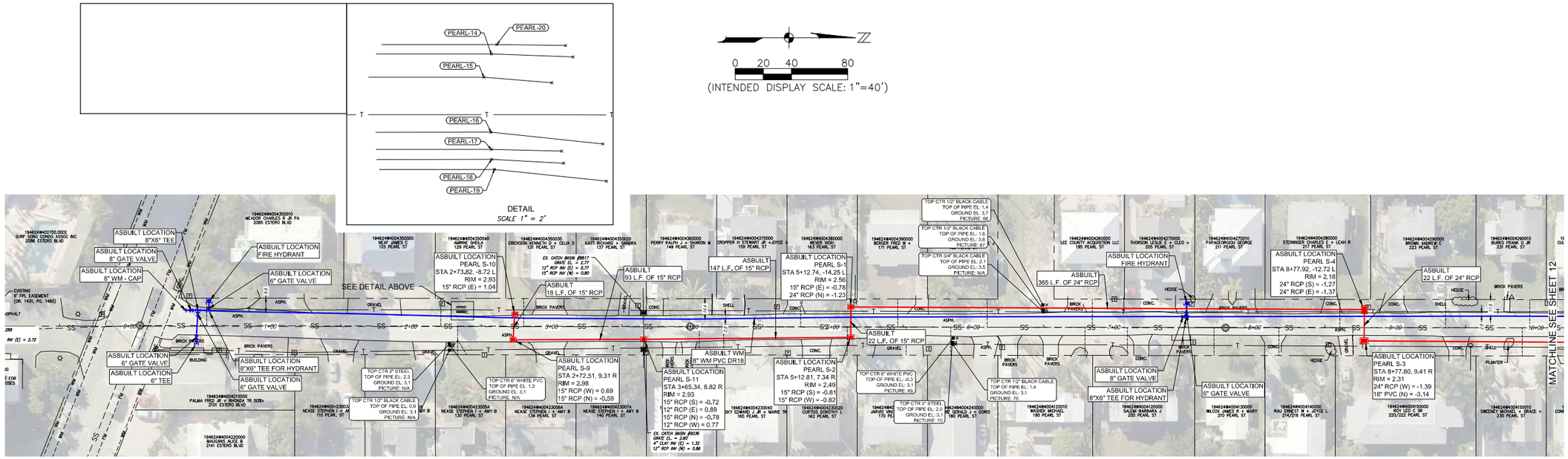
PLAN & PROFILE
DELMAR AVENUE
STATION
10+00_TO_16+50

RECORD DRAWINGS

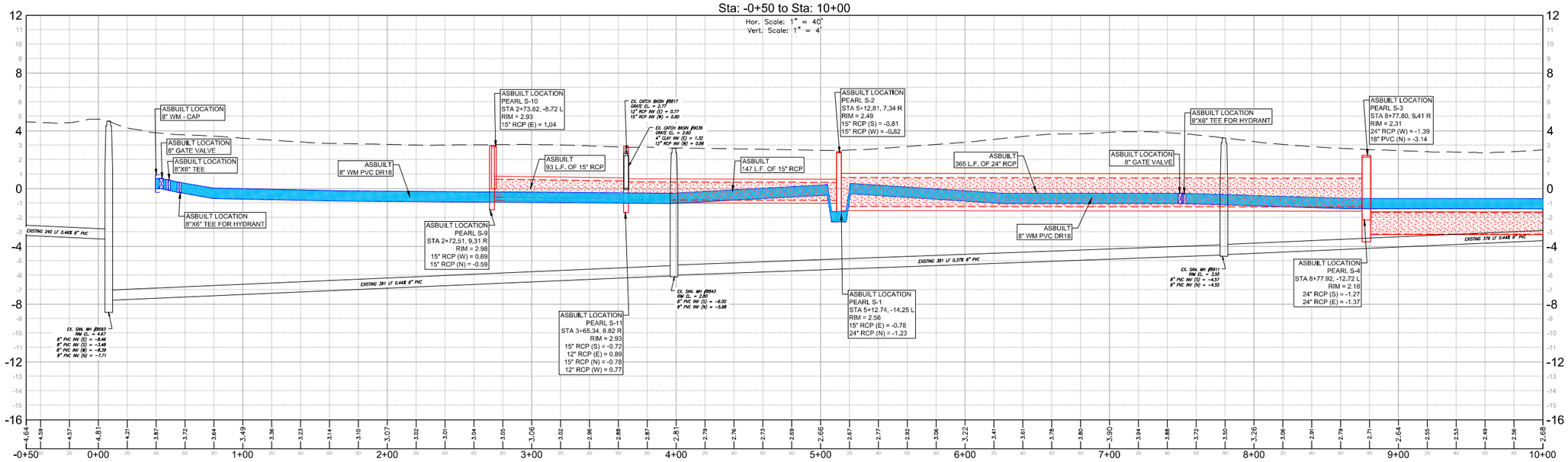
SHEET NUMBER

10

\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000_Phase 1a - AsBuilt.dwg (PP (10)) MNT Feb 19, 2015 - 9:23am



Profile View of Pearl Street
Sta: -0+50 to Sta: 10+00



RECORD DRAWING

PLAN VIEW
- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

PROFILE VIEW
- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

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Town of FORT MYERS BEACH FLORIDA

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1A
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE

DATE:	FEBRUARY 19, 2015
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SCALE:	As Shown

PLAN & PROFILE
PEARL STREET
STATION
-0+50_TO_10+00

RECORD DRAWINGS

SHEET NUMBER

11

\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000_Phase 1a - AsBuilt.dwg (PP (11)) MNT Feb 19, 2015 - 9:24am

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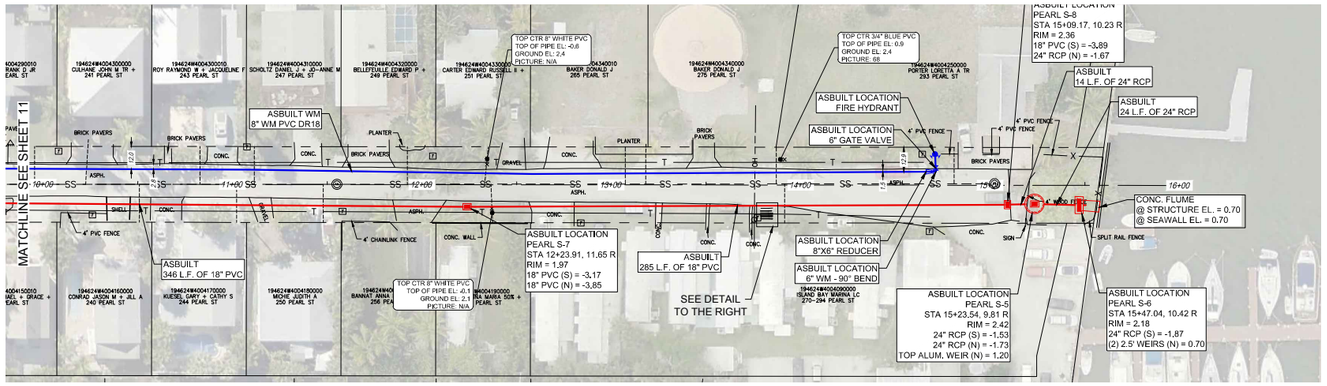
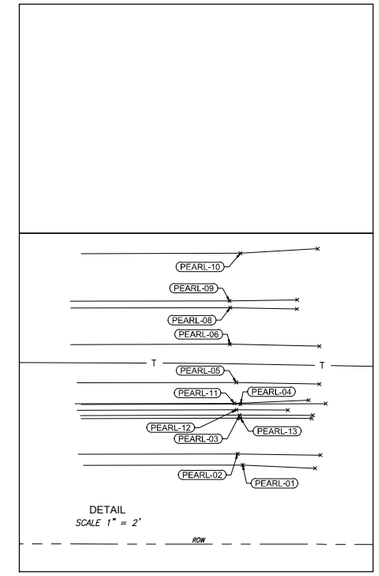
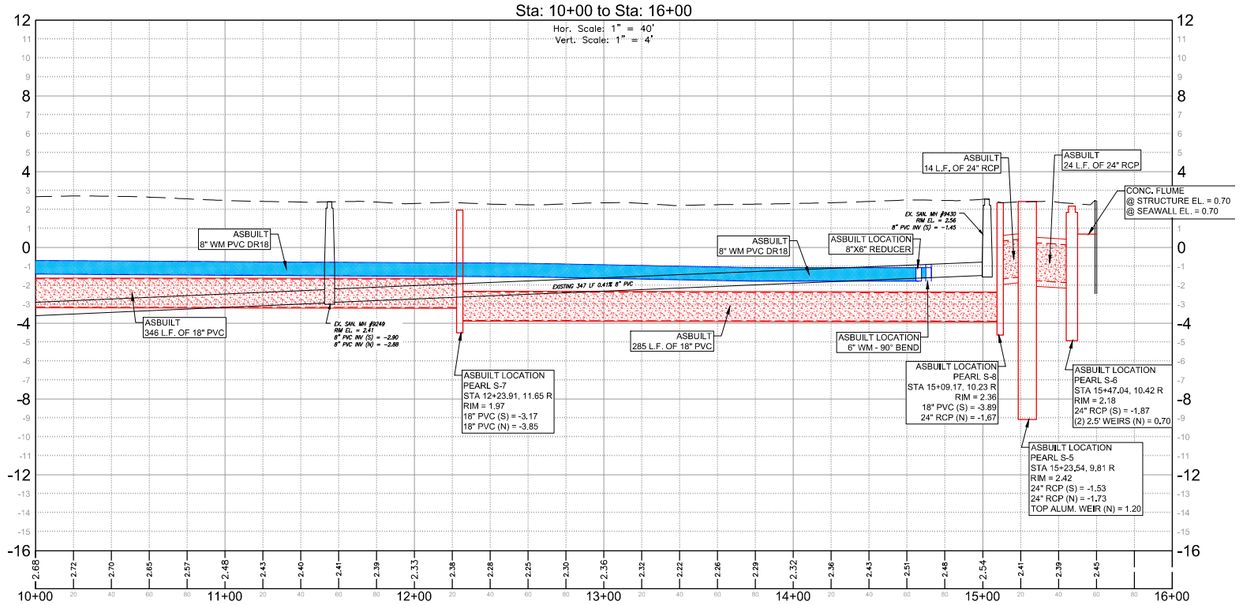




Profile View of Pearl Street
Sta: 10+00 to Sta: 16+00



RECORD DRAWING

PLAN VIEW
AS-BUILT DRAINAGE
AS-BUILT WATER MAIN

PROFILE VIEW
AS-BUILT DRAINAGE
AS-BUILT WATER MAIN

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RECORD DRAWINGS
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DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1A
LEE COUNTY, FLORIDA

REVISIONS

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DATE:	FEBRUARY 19, 2015
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PLAN & PROFILE
PEARL STREET
STATION
10+00_TO_16+00

RECORD DRAWINGS

SHEET NUMBER

12

\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000_Phase 1a - AsBuilt.dwg (PP (12)) MNT Feb 19, 2015 - 9:24am

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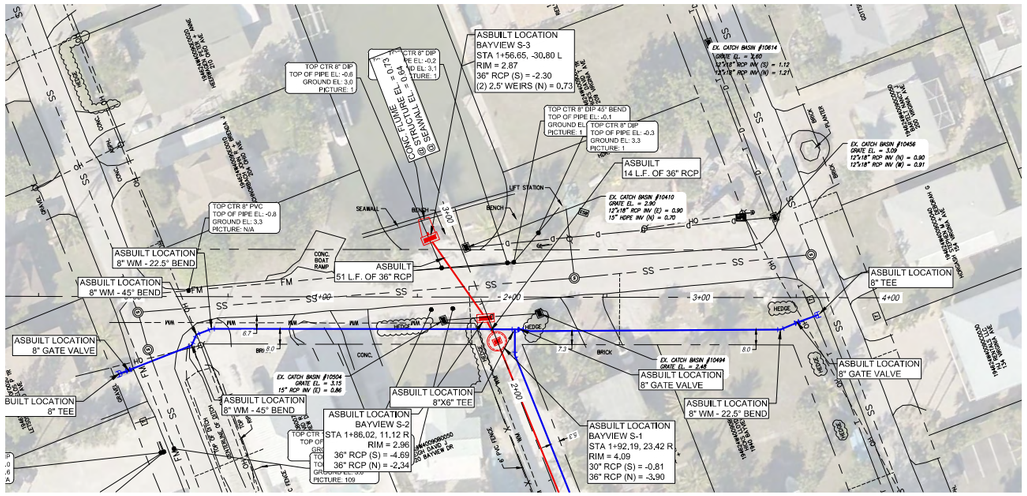

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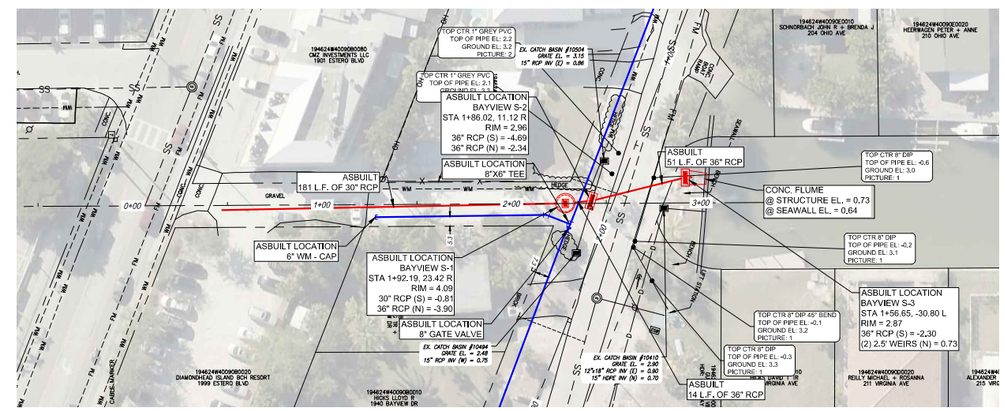
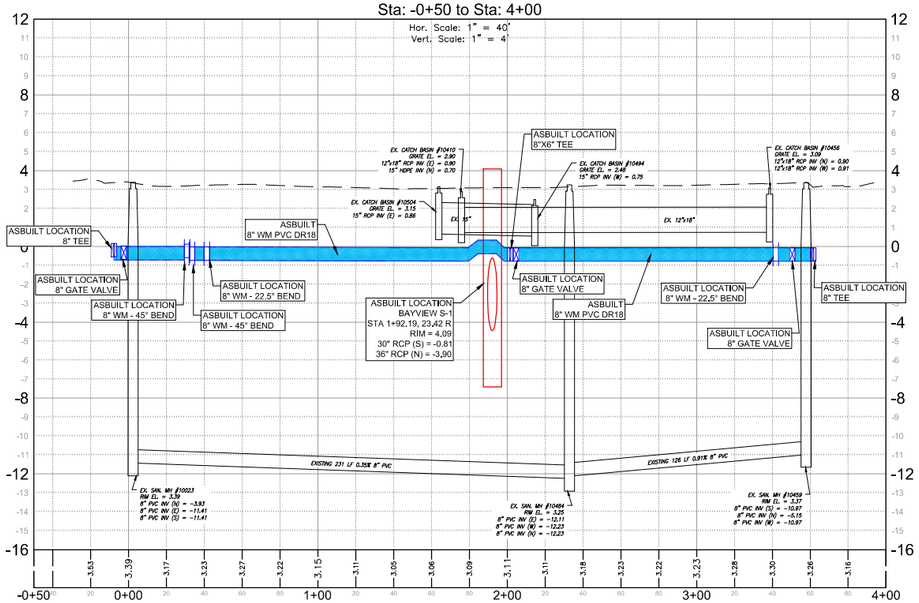
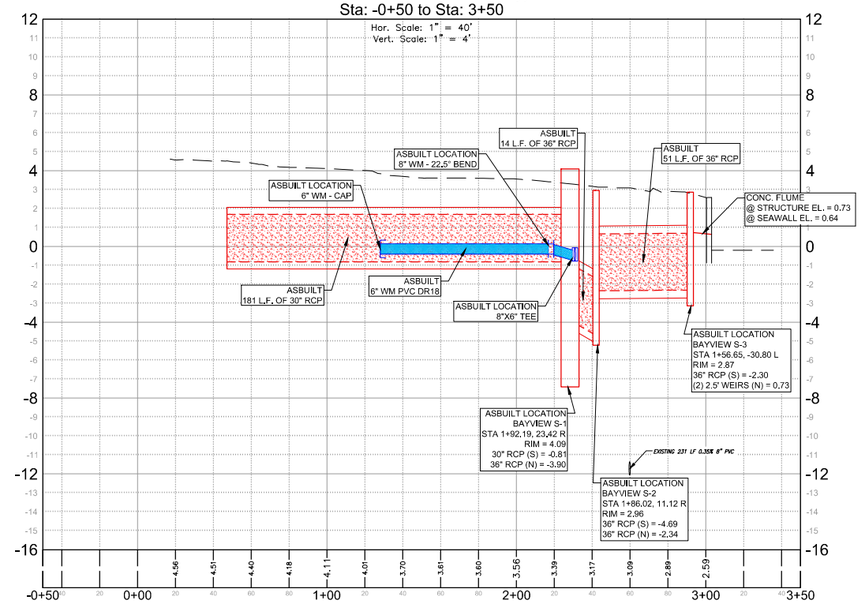


Profile View of Bayview Drive
Sta: -0+50 to Sta: 4+00



Profile View of Bayview (Alley)
Sta: -0+50 to Sta: 3+50



RECORD DRAWING

PLAN VIEW
AS-BUILT DRAINAGE
AS-BUILT WATER MAIN

PROFILE VIEW
AS-BUILT DRAINAGE
AS-BUILT WATER MAIN

\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000_Phase 1a - AsBuilt.dwg (PP (13)) MNT Feb 19, 2015 - 9:25am

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FOR WATER MAIN
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Town of FORT MYERS BEACH FLORIDA

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1A
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE

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SCALE:	As Shown

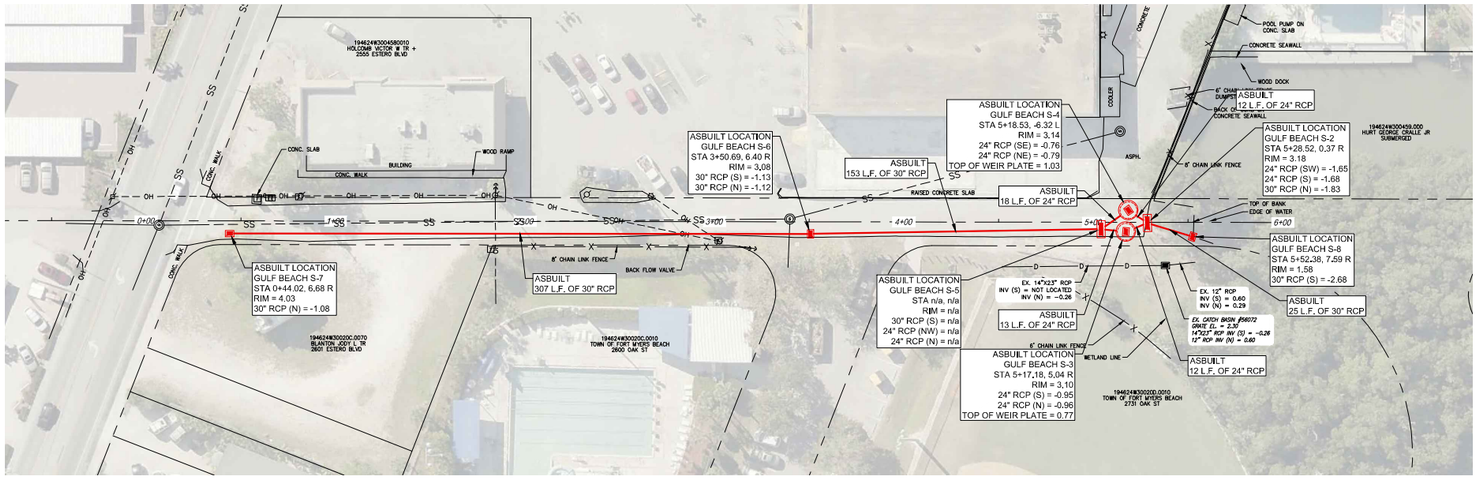
PLAN & PROFILE
BAYVIEW DRIVE &
ALLEY BETWEEN
BAYVIEW & ESTERO
BLVD.

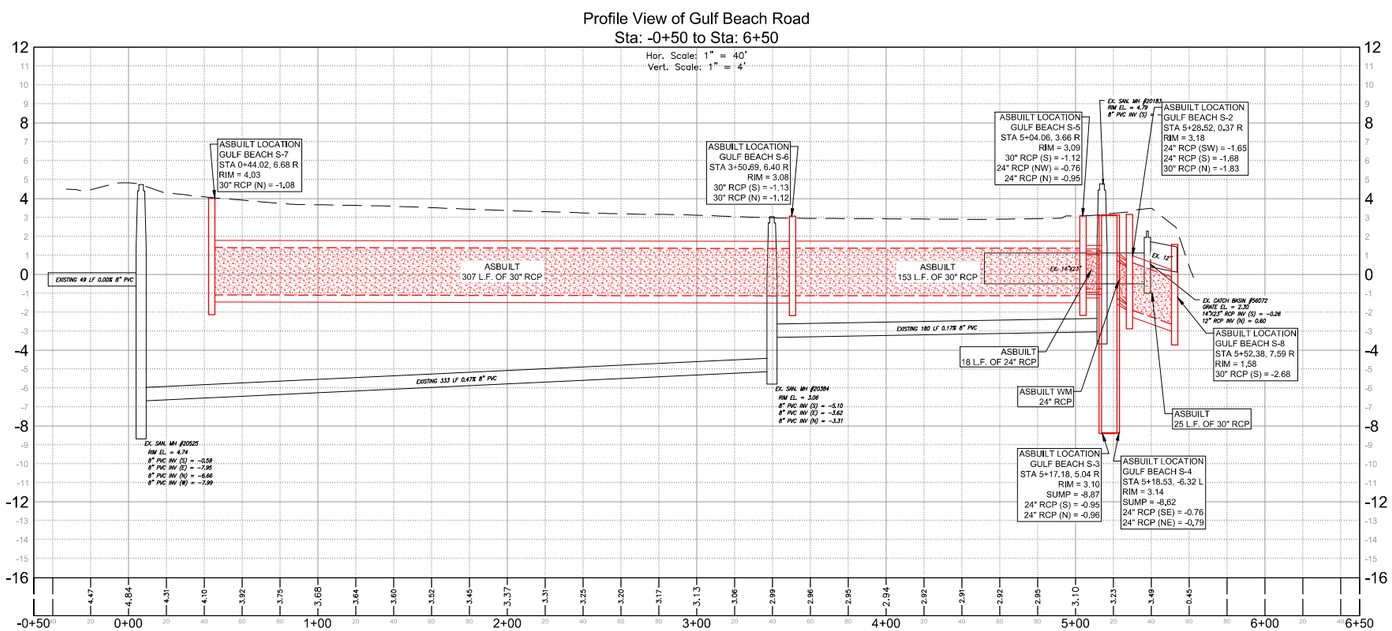
RECORD DRAWINGS

SHEET NUMBER

13

0 20 40 80
(INTENDED DISPLAY SCALE: 1"=40')





RECORD DRAWING

PLAN VIEW
- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

PROFILE VIEW
- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

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Town of FORT MYERS BEACH FLORIDA

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1A
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE

DATE:	FEBRUARY 19, 2015
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FILE NO.	19-46-24
SCALE:	As Shown

PLAN & PROFILE
GULF BEACH ROAD
STATION -0+50_TO_6+50

RECORD DRAWINGS

SHEET NUMBER
14

\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000_Phase 1a - AsBuilt.dwg (PP (14)) MNT Feb 19, 2015 - 9:25am

TOWN OF FORT MYERS BEACH WATER MAIN REPLACEMENT AND DRAINAGE IMPROVEMENTS FOR THE BASIN BASED NEIGHBORHOOD PHASE-1B

FOR

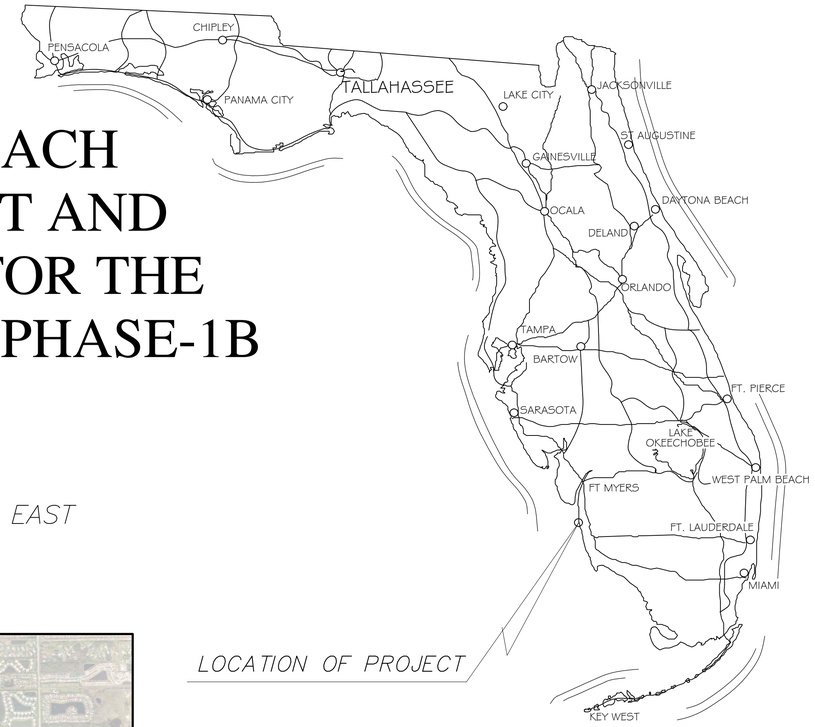
Town of Fort Myers Beach

LOCATED IN

SECTION 19, TOWNSHIP 46 SOUTH, RANGE 24 EAST

LEE COUNTY, FLORIDA

FEBRUARY 24, 2015



Sheet List Table	
Sheet No.	Sheet Title
01	Cover
02	Notes & Key Map
Plan & Profile	
03	Carolina Avenue Station -0+50_to_9+00
04	Carolina Avenue Station 9+00_to_13+00
05	Ostego Drive Station -0+50_to_8+50
06	Ostego Drive Station 8+50_to_12+00
07	Miramar Street Station -0+50_to_10+00
08	Miramar Street Station 10+00_to_14+50
09	Ohio Avenue Station -0+50_to_7+00
10	Ohio Avenue Station 7+00_to_14+50
11	Virginia Avenue Station -0+50_to_7+00
12	Virginia Avenue Station 7+00_to_15+00
13	Chapel Street Station -0+50_to_7+00
14	Mango (Gulf Side) Station -0+50_to_3+50
15	Cottage Avenue Station -0+50_to_7+00
16	Alva Drive Station -0+50_to_2+00
17	Avenue E Station -0+50_to_2+50
18	I Street Station 1+00_to_4+50
19	Delmar Avenue (Gulf Side) Station -0+50_to_3+00
20	Palm Avenue (Gulf Side) Station -0+50_to_3+50
21	Pearl Street (Gulf Side) Station -0+50_to_3+50

N
W E
S

PROJECT SITE

LOCATION MAP
N.T.S.

RECORD DRAWING
February 24, 2015

For Information Regarding This Project, Contact:
Michael S. Dickey, PE (Water Main)
Ricardo Acosta, PE (Drainage)

MICHAEL S. DICKEY, PE FL License No. 60057	RICARDO ACOSTA, PE FL License No. 69121

DESIGN CONSULTANT

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RICARDO ACOSTA, PE
FL License No. 69121

FOR WATER MAIN
MICHAEL S. DICKEY, PE
FL License No. 60057

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1B
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE

DATE:	FEBRUARY 24, 2015
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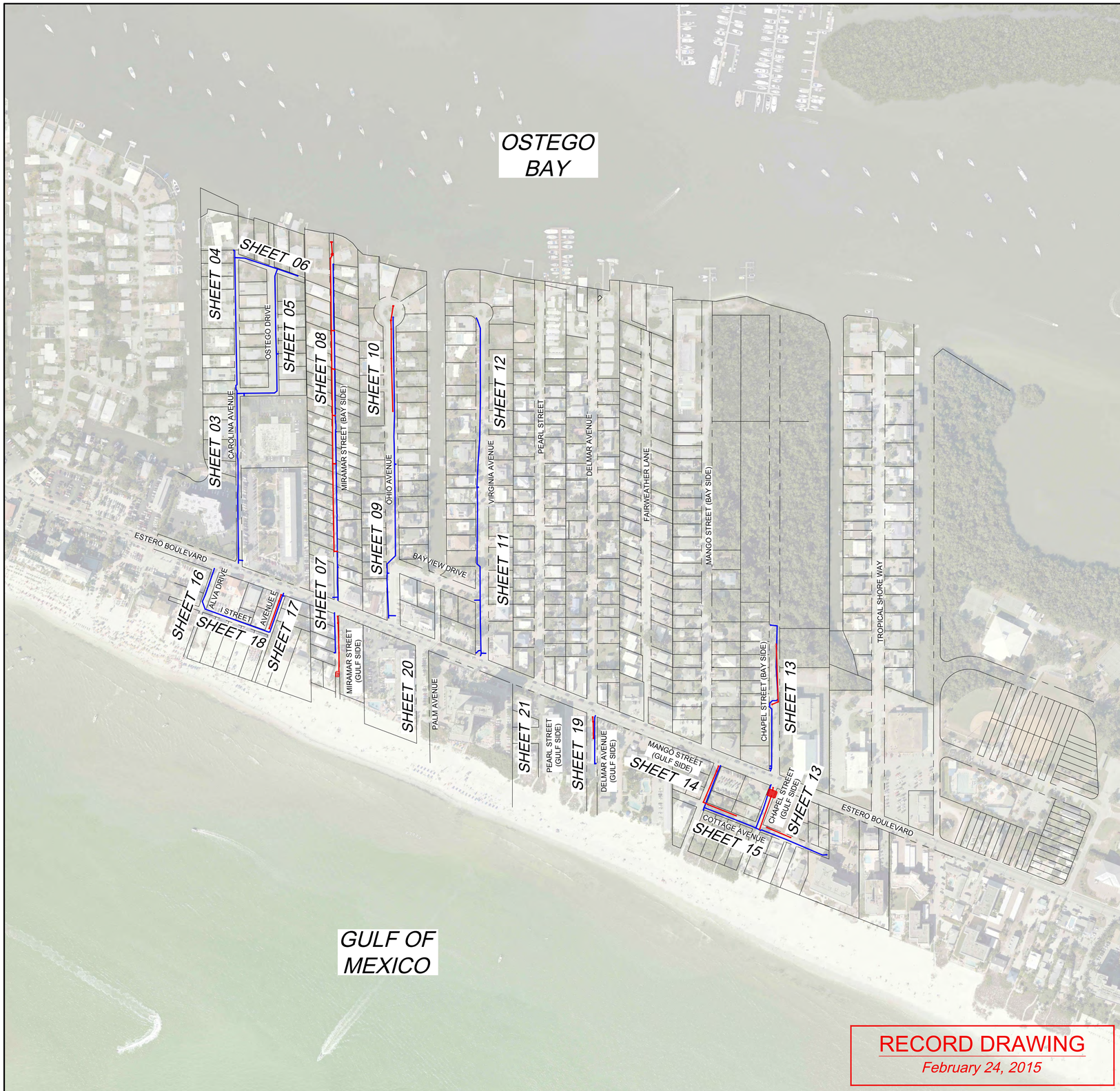
COVER

RECORD DRAWINGS

SHEET NUMBER

01



RECORD DRAWING
February 24, 2015

NOTICE TO ALL CONTRACTORS

IT'S THE LAW IN FLORIDA
2 BUSINESS DAYS BEFORE YOU DIG
CALL SUNSHINE 1-800-432-4770

STATE, COUNTIES & CITIES ARE "NOT"
PART OF THE ONE CALL SYSTEM.
THEY MUST BE CALLED INDIVIDUALLY.

STATE OF FLORIDA DOT
ALL INTERSTATE RIGHT-OF-WAY
HIGHMAST LIGHTING
7-DAY NOTICE REQUIRED
239-656-7811
239-656-7742 FAX

BEFORE YOU DIG
STOP
CALL SUNSHINE
1-800-432-4770
AVOID DAMAGE TO UNDERGROUND FACILITIES

N

0 100 200 400
(INTENDED DISPLAY SCALE: 1"=200')

SEPARATION OF WATER AND SEWER LINES

HORIZONTAL SEPARATION OF PIPELINES

Minimum Separation Distance	Between The Outside Of The Water Main And The Outside Of Any Existing Or Proposed
Three feet	Storm sewer, stormwater force main, or reclaimed water main
Three feet, and preferably ten feet	Vacuum-type sanitary sewer.
Six feet, and preferably ten feet	Gravity- or pressure-type sanitary sewer, wastewater force main, or reclaimed water main not regulated under part III of chapter 62-610, F.A.C. The minimum horizontal separation distance between water mains and gravity-type sanitary sewers shall be reduced to three feet where the bottom of the water main is laid at least six inches above the top of the sewer.
Ten feet	"On-site sewage treatment and disposal system"

VERTICAL SEPARATION OF PIPELINES

Minimum Separation Distance From The (Outside To The Outside)	New Or Relocated, Underground Water Mains Crossing Any Existing Or Proposed
Six inches, and preferably 12 inches above	Gravity- or vacuum-type sanitary sewer or storm sewer
12 inches below	Gravity- or vacuum-type sanitary sewer or storm sewer
12 inches above or below	Pressure-type sanitary sewer, wastewater, stormwater force main, or pipeline conveying reclaimed water main

One full length of water main pipe shall be centered above or below the other pipeline so the water main joints will be as far as possible from the other pipeline.

Alternatively, the pipes shall be arranged so that all water main joints are at least three feet from all joints in vacuum-type sanitary sewers, storm sewers, stormwater force mains, or reclaimed water mains, and at least six feet from all joints in gravity- or pressure-type sanitary sewers, wastewater force mains, or reclaimed water mains.

ELEVATION NOTES:

1. Elevations shown are in North American Vertical Datum of 1988 (NAVD88).
2. 10-year Stillwater Elevation for Ostego Bay = 2.5 ft (NAVD88).
3. 10-year Stillwater elevation for the Gulf of Mexico = 4.9 ft (NAVD88).
4. Mean High Water Elevation for Ostego Bay = 0.14 ft (NAVD88).

ALTERNATE CONSTRUCTION

Where an underground water main is being laid less than the required minimum horizontal distance from another pipeline and where an underground water main is crossing another pipeline and joints in the water main are being located less than the required minimum distance from joints in the other pipeline

1. Use of pressure-rated pipe conforming to the American Water Works Association standards incorporated into Rule 62-555.330, F.A.C., for the other pipeline if it is a gravity- or vacuum-type pipeline;
2. Use of welded, fused, or otherwise restrained joints for either the water main or the other pipeline; or
3. Use of watertight casing pipe or concrete encasement at least four inches thick for either the water main or the other pipeline.

Where an underground water main is being laid less than three feet horizontally from another pipeline and where an underground water main is crossing another pipeline and is being laid less than the required minimum vertical distance from the other pipeline

1. Use of pipe, or casing pipe, having high impact strength (i.e., having an impact strength at least equal to that of 0.25-inch-thick ductile iron pipe) or concrete encasement at least four inches thick for the water main; and
2. Use of pipe, or casing pipe, having high impact strength (i.e., having an impact strength at least equal to that of 0.25-inch-thick ductile iron pipe) or concrete encasement at least four inches thick for the other pipeline if it is new and is conveying wastewater or reclaimed water.

MISC. NOTES:

1. Vertical saw cuts through existing pavement and base material are required where new pavement matches to existing pavement.

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FOR WATER MAIN
MICHAEL S. DICKEY, PE
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Town of FORT MYERS BEACH FLORIDA

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1B
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE

DATE:	FEBRUARY 24, 2015
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FILE NO.	19-46-24
SCALE:	AS SHOWN

NOTES & KEY MAP

RECORD DRAWINGS

SHEET NUMBER

02

\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000 Phase 1b - AsBuilt.dwg (Notes & Legends) MNT Feb 24, 2015 - 9:53am

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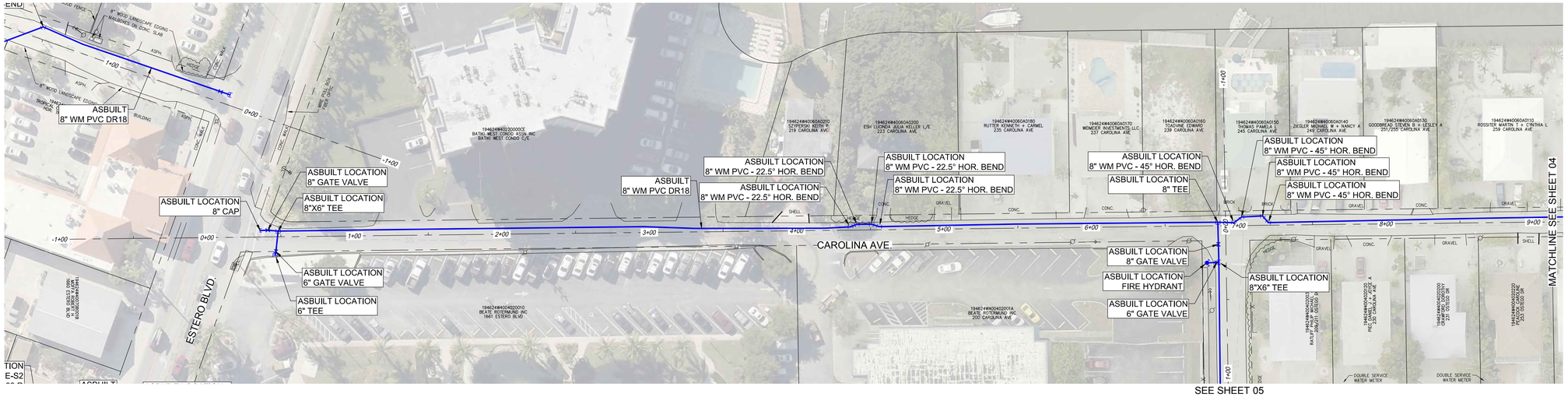

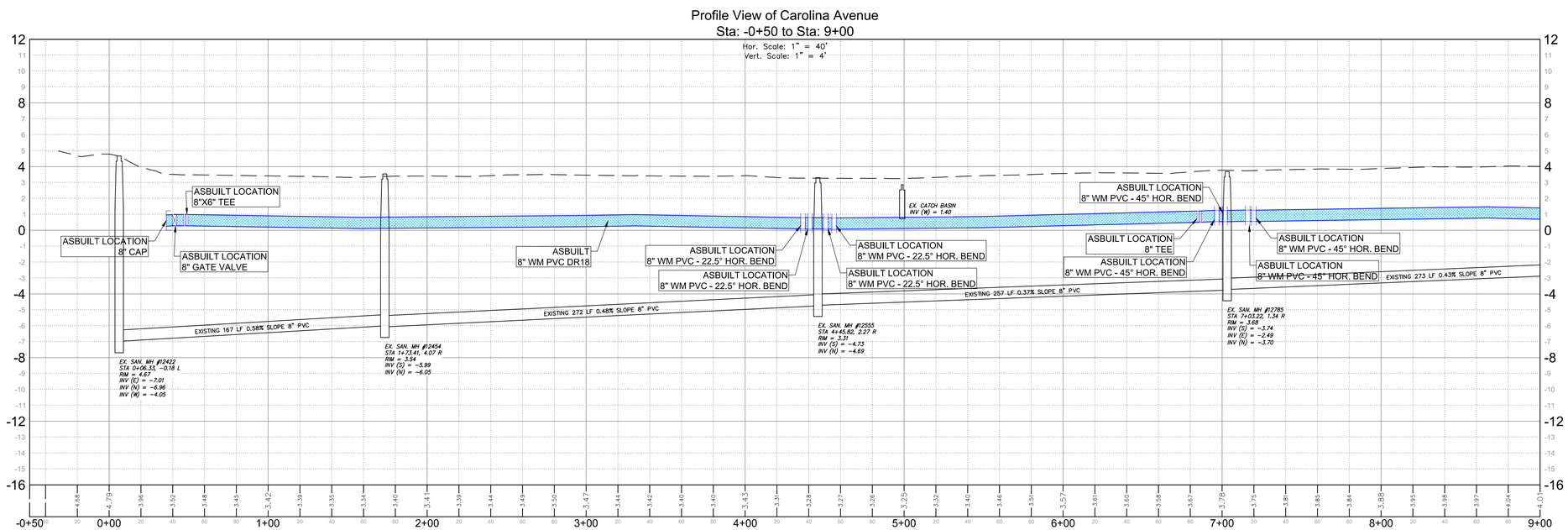

RECORD DRAWING

PLAN VIEW
- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

PROFILE VIEW
- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

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Town of FORT MYERS BEACH FLORIDA

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1B
LEE COUNTY, FLORIDA

REVISIONS

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DATE:	FEBRUARY 24, 2015
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PLAN & PROFILE
CAROLINA AVENUE
STATION -0+50_TO_9+00

RECORD DRAWINGS

SHEET NUMBER

03

\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000_Phase 1b - AsBuilt.dwg (Carolina (1)) MNT Feb 24, 2015 - 9:53am

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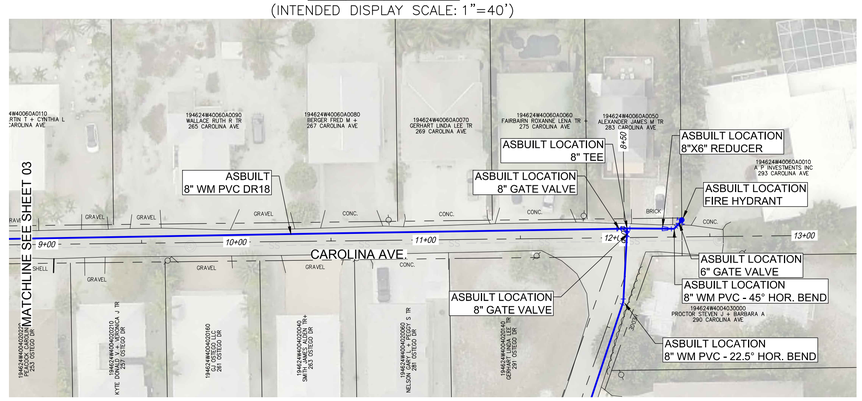
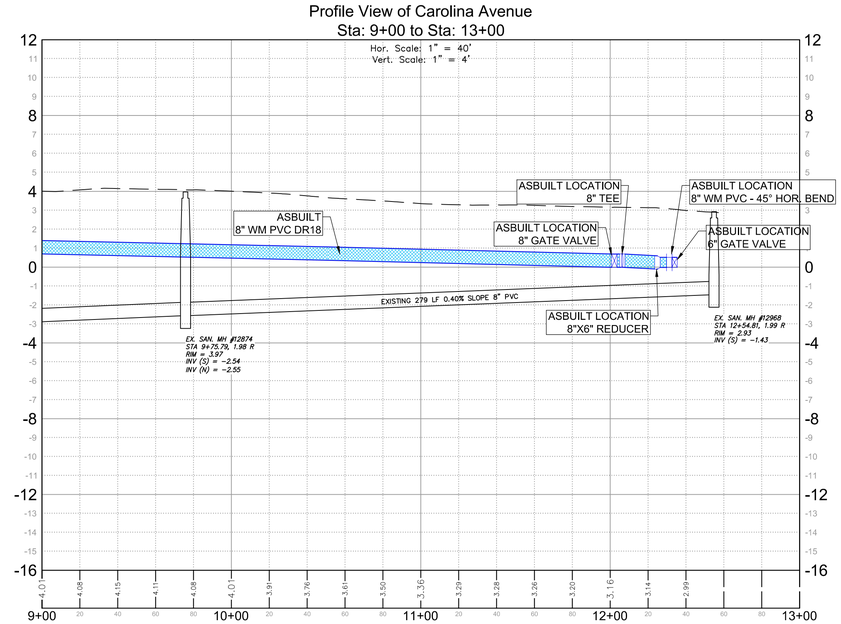
(INTENDED DISPLAY SCALE: 1"=40')





RECORD DRAWING

PLAN VIEW

- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

PROFILE VIEW

- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

JOHNSON ENGINEERING

2122 JOHNSON STREET
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E.B. #642 & L.B. #642

FOR DRAINAGE
RICARDO ACOSTA, PE
FL License No. 69121

FOR WATER MAIN
MICHAEL S. DICKEY, PE
FL License No. 60057

Town of FORT MYERS BEACH FLORIDA

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1B
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE

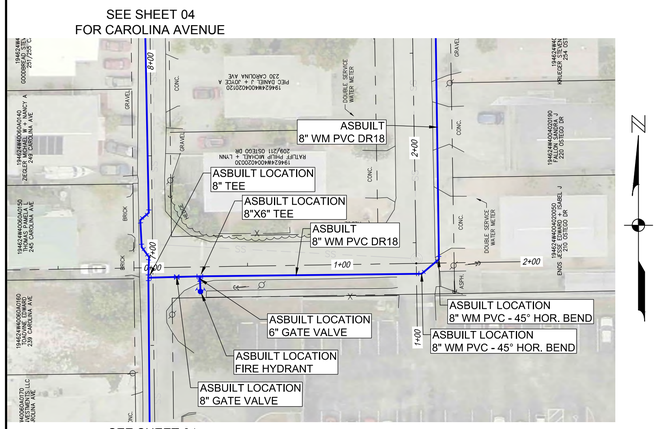
DATE: FEBRUARY 24, 2015
PROJECT NO. 20139512-000
FILE NO. 19-46-24
SCALE: As Shown

PLAN & PROFILE
CAROLINA AVENUE
STATION
9+00_TO_13+00

RECORD DRAWINGS

SHEET NUMBER

04



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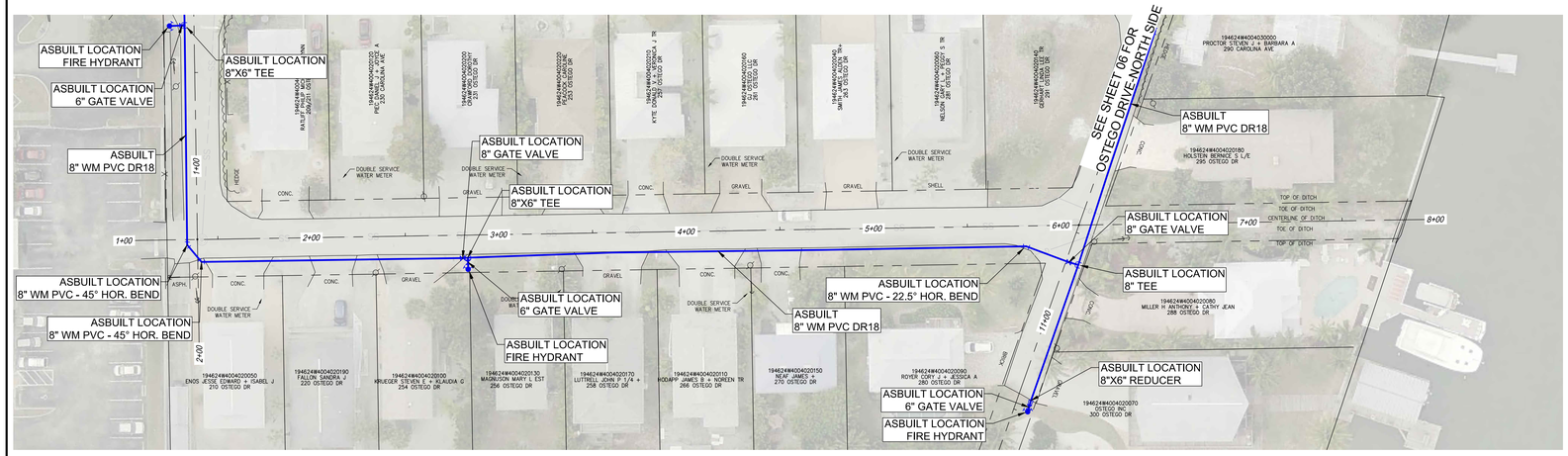
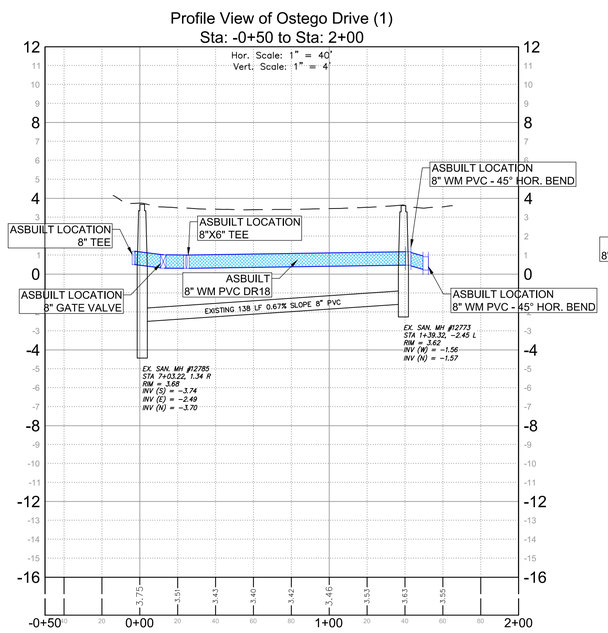
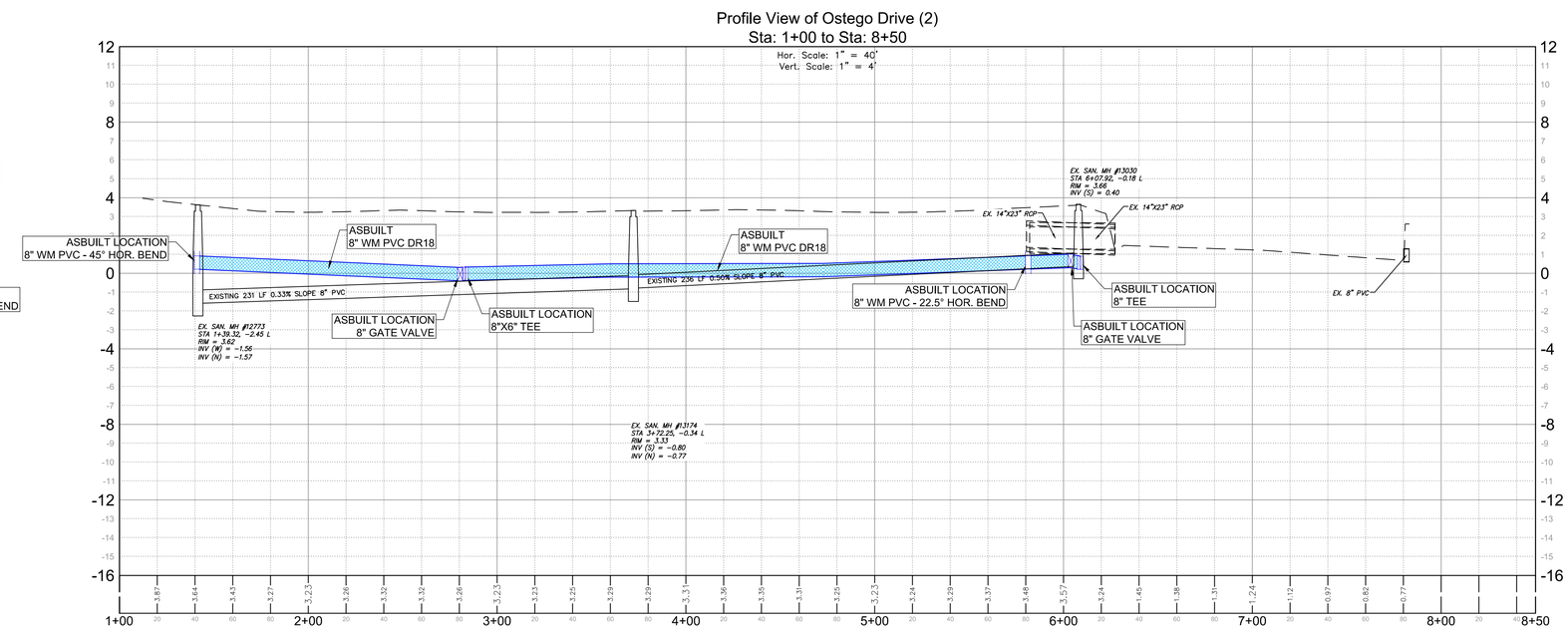
(INTENDED DISPLAY SCALE: 1"=40')







RECORD DRAWING

PLAN VIEW
AS-BUILT DRAINAGE
AS-BUILT WATER MAIN

PROFILE VIEW
AS-BUILT DRAINAGE
AS-BUILT WATER MAIN

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Town of FORT MYERS BEACH FLORIDA

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1B
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE

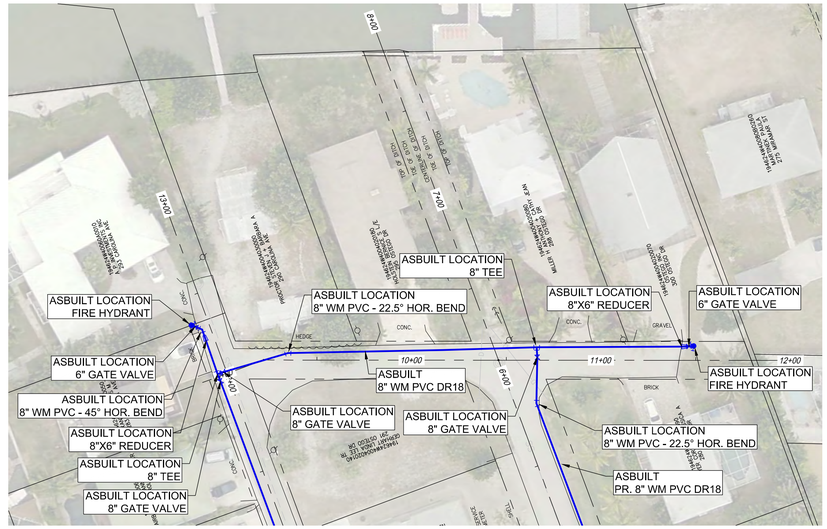
DATE:	FEBRUARY 24, 2015
PROJECT NO.	20139512-000
FILE NO.	19-46-24
SCALE:	As Shown

PLAN & PROFILE
OSTEGO DRIVE
STATION -0+50_TO_8+50

RECORD DRAWINGS

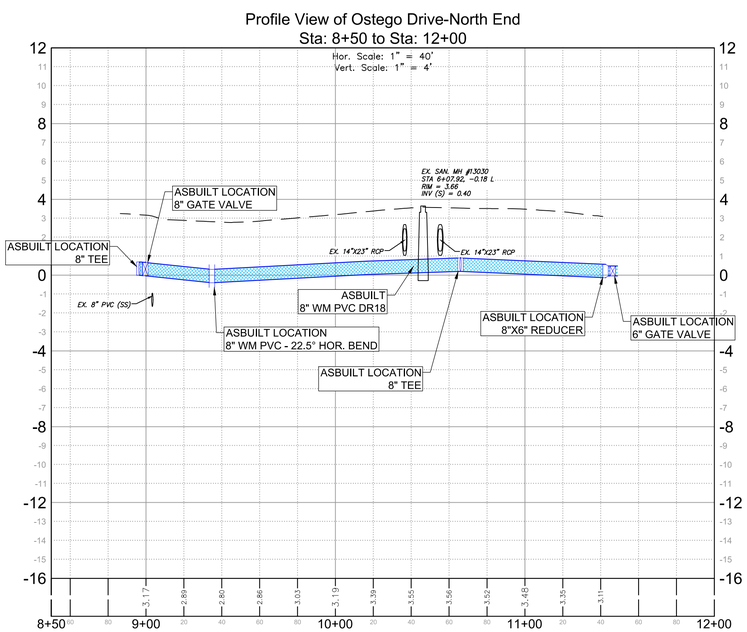
SHEET NUMBER
05

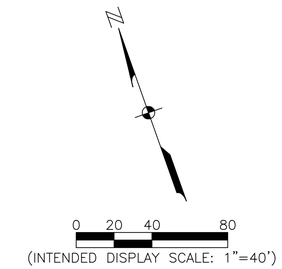
\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000_Phase 1b - AsBuilt.dwg (Ostego (1)) MNT Feb 24, 2015 - 9:54am



SEE SHEET 04
FOR CAROLINA AVENUE

SEE SHEET 05
FOR OSTEGO DRIVE





RECORD DRAWING

PLAN VIEW
AS-BUILT DRAINAGE
AS-BUILT WATER MAIN

PROFILE VIEW
AS-BUILT DRAINAGE
AS-BUILT WATER MAIN

JOHNSON ENGINEERING
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Town of FORT MYERS BEACH FLORIDA

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1B
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE

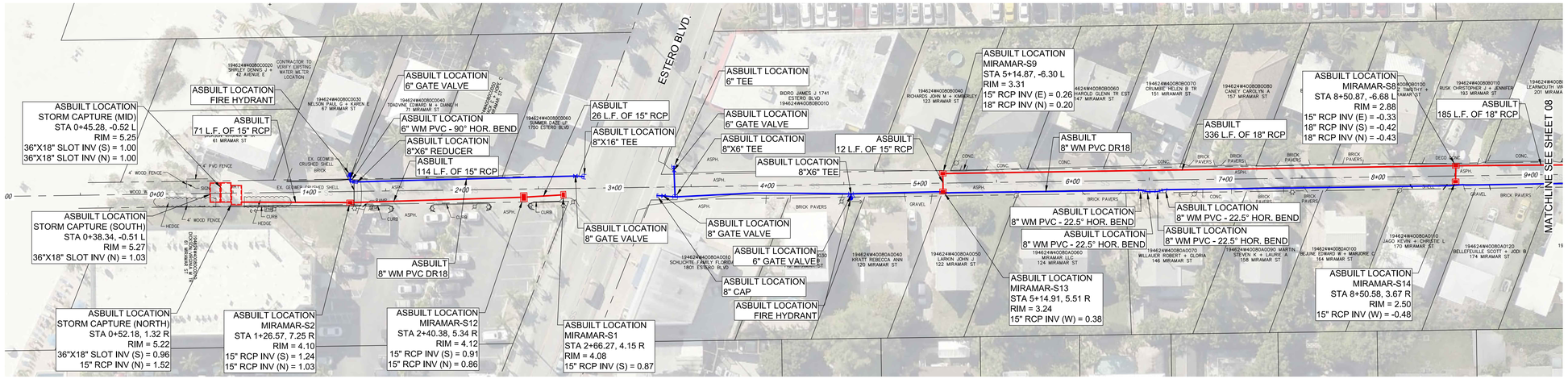
DATE:	FEBRUARY 24, 2015
PROJECT NO.	20139512-000
FILE NO.	19-46-24
SCALE:	As Shown

PLAN & PROFILE
OSTEGO DRIVE
STATION
8+50_TO_12+00

RECORD DRAWINGS

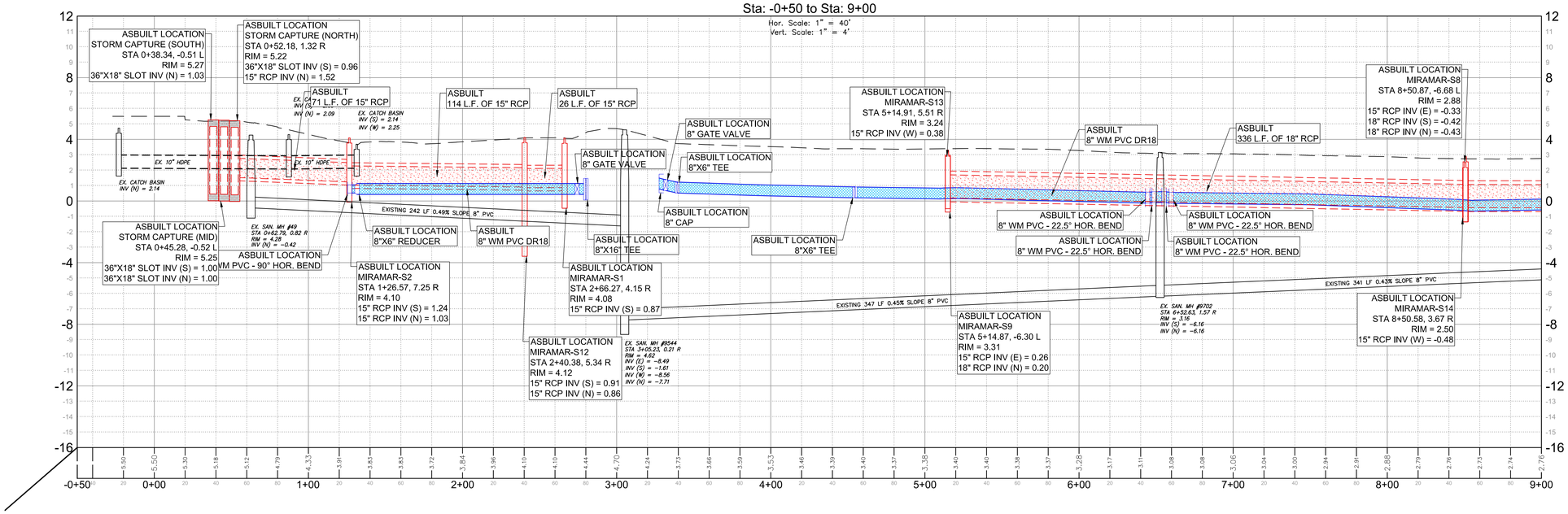
SHEET NUMBER
06

0 20 40 80
(INTENDED DISPLAY SCALE: 1"=40')



Profile View of Miramar Street
Sta: -0+50 to Sta: 9+00

Hor. Scale: 1" = 40'
Vert. Scale: 1" = 4'



RECORD DRAWING

PLAN VIEW
- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

PROFILE VIEW
- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000_Phase 1b - AsBuilt.dwg (Miramar (1)) MNT Feb 24, 2015 - 9:55am

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Town of FORT MYERS BEACH FLORIDA

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1B
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE
1	REMOVE (1) STORM CAPTURE UNIT.	5/20/14

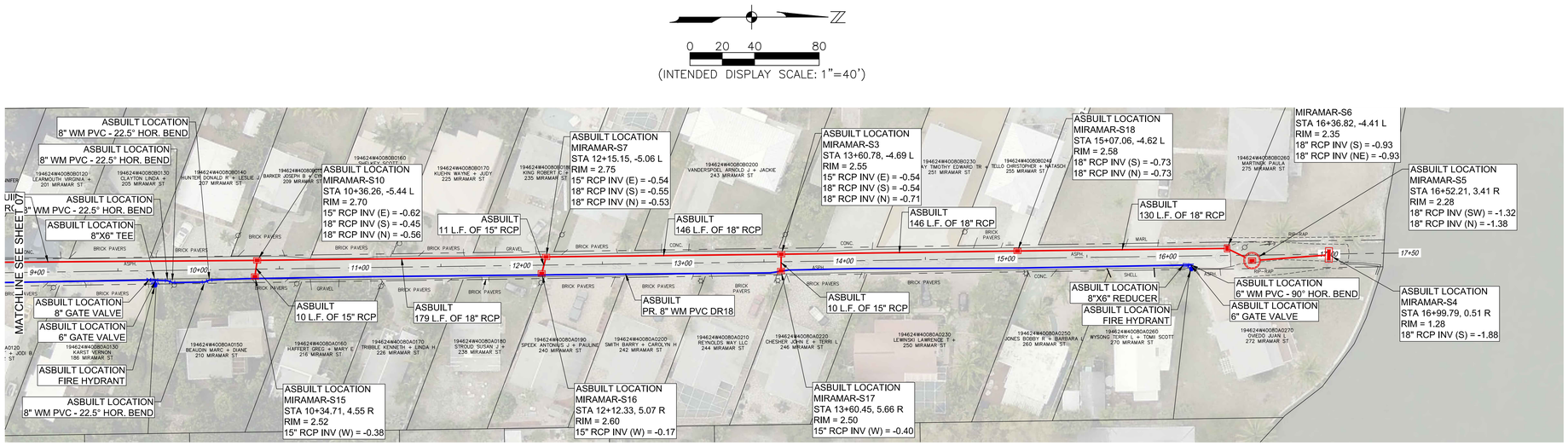
DATE:	FEBRUARY 24, 2015
PROJECT NO.	20139512-000
FILE NO.	19-46-24
SCALE:	As Shown

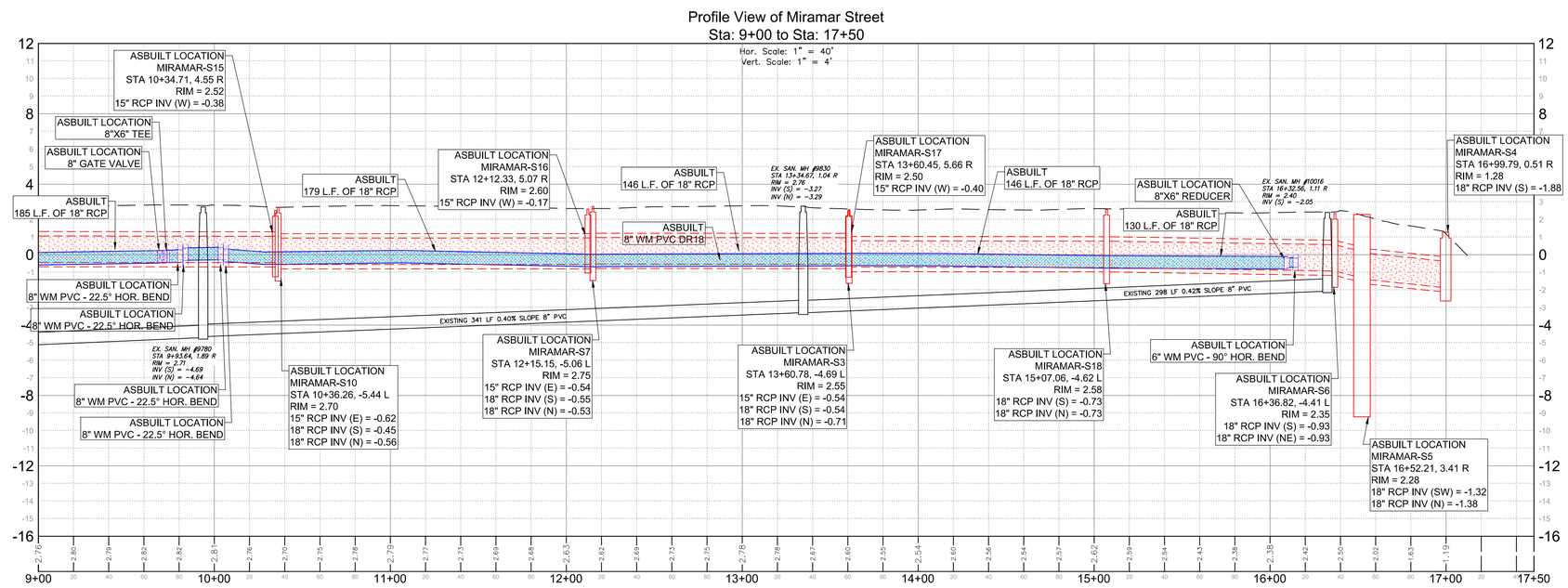
PLAN & PROFILE
MIRAMAR STREET
STATION
-0+50_TO_10+00

RECORD DRAWINGS

SHEET NUMBER

07





RECORD DRAWING

PLAN VIEW
AS-BUILT DRAINAGE
AS-BUILT WATER MAIN

PROFILE VIEW
AS-BUILT DRAINAGE
AS-BUILT WATER MAIN

\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000_Phase 1b - AsBuilt.dwg (Miramar (2)) MNT Feb 24, 2015 - 9:55am

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Town of FORT MYERS BEACH FLORIDA

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1B
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE
1	REVISE INV. AT MIRAMAR-S4, S5 & S6	5/20/14

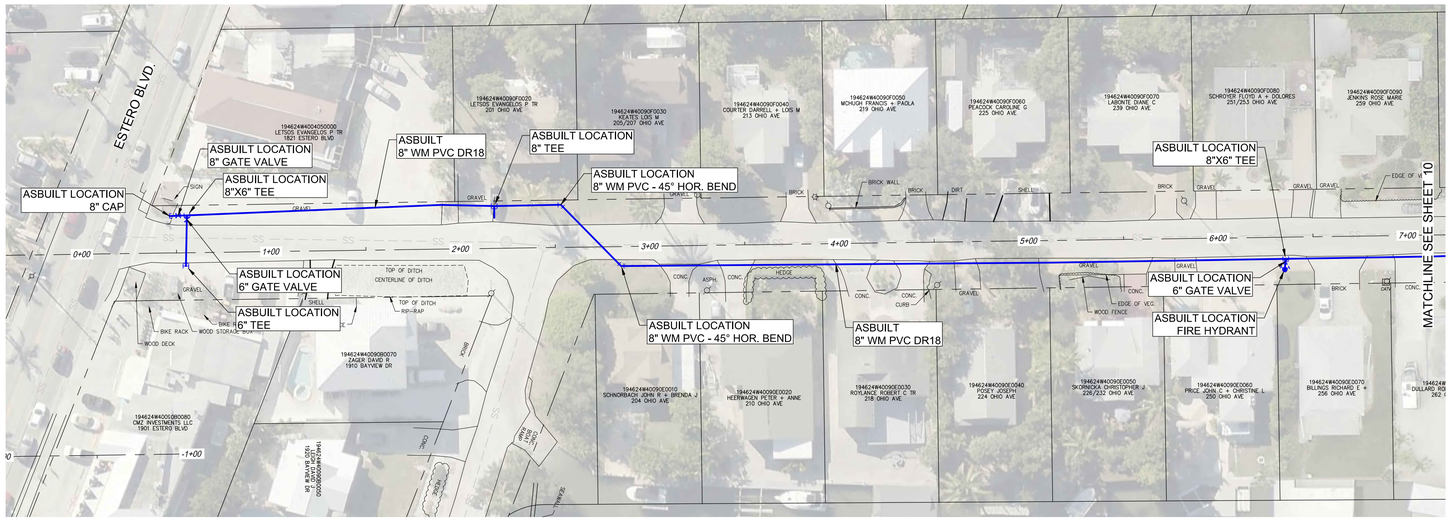
DATE:	FEBRUARY 24, 2015
PROJECT NO.	20139512-000
FILE NO.	19-46-24
SCALE:	As Shown

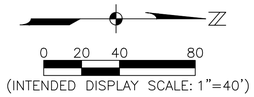
PLAN & PROFILE
MIRAMAR STREET
STATION
10+00_TO_14+50

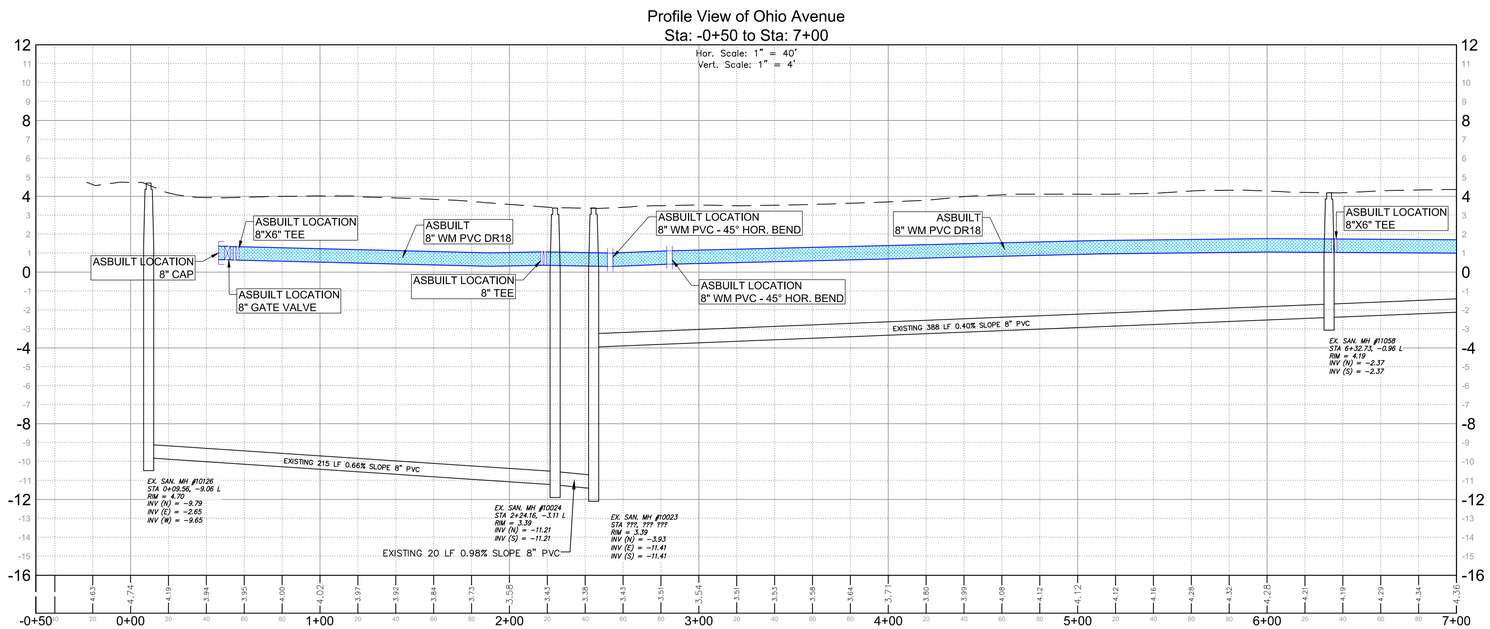
RECORD DRAWINGS

SHEET NUMBER

08







RECORD DRAWING

PLAN VIEW
- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

PROFILE VIEW
- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

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Town of FORT MYERS BEACH FLORIDA

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1B
LEE COUNTY, FLORIDA

REVISIONS

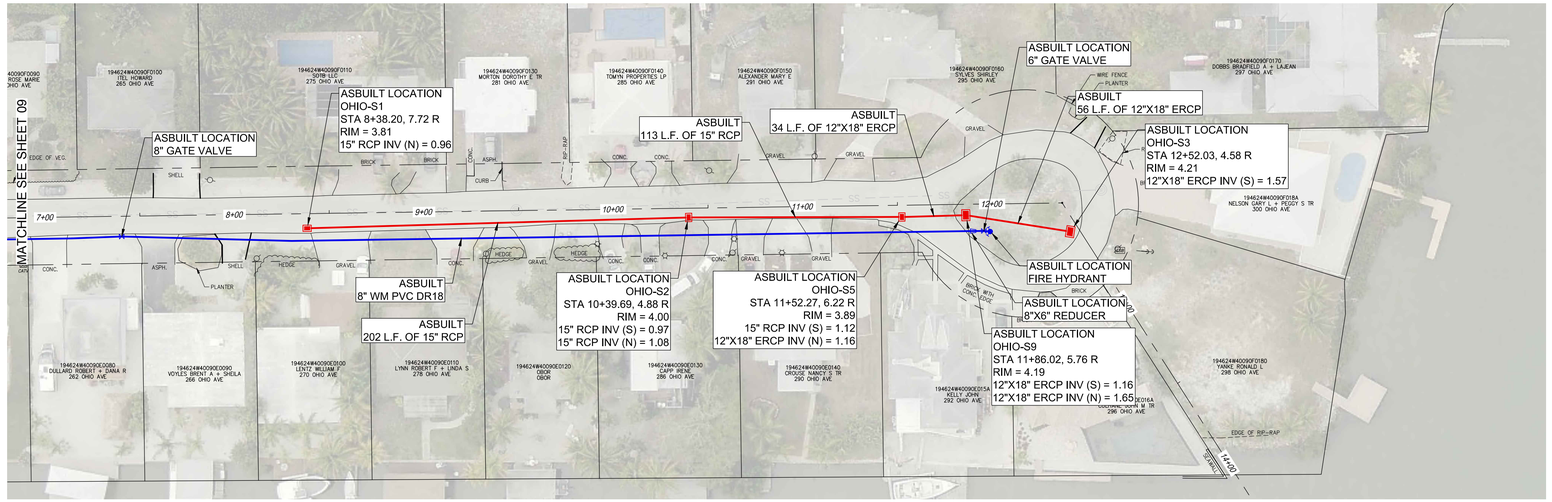
NO.	DESCRIPTION	DATE

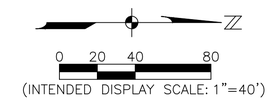
DATE: FEBRUARY 24, 2015
PROJECT NO. 20139512-000
FILE NO. 19-46-24
SCALE: As Shown

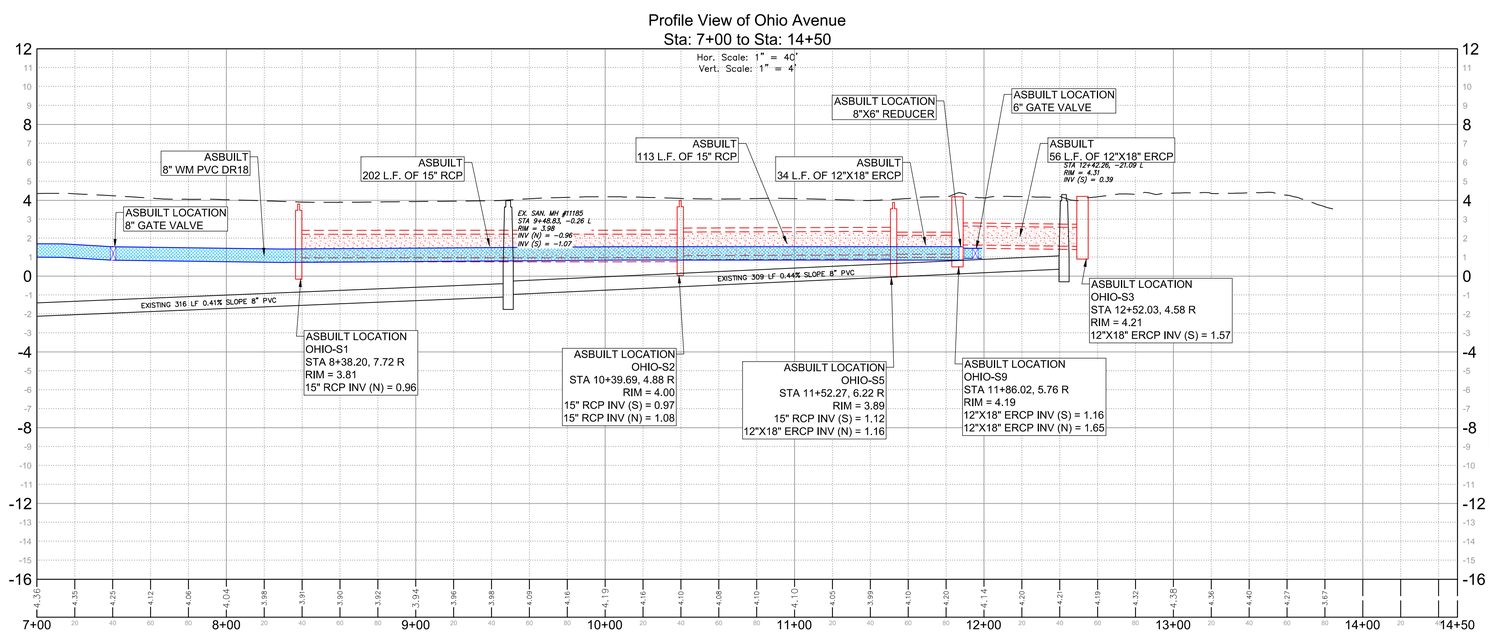
PLAN & PROFILE
OHIO AVENUE STATION
-0+50_TO_7+00

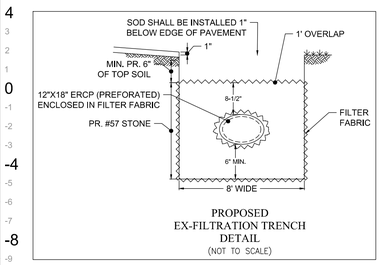
RECORD DRAWINGS

SHEET NUMBER
09









RECORD DRAWING

PLAN VIEW
- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

PROFILE VIEW
- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000_Phase 1b - AsBuilt.dwg (Ohio (2)) MNT Feb 24, 2015 - 9:56am

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FOR WATER MAIN
MICHAEL S. DICKEY, PE
FL License No. 60057

Town of FORT MYERS BEACH FLORIDA

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1B
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE
1	MOVE HYD TO E. SIDE @ STA. ±7+50	5/12/14

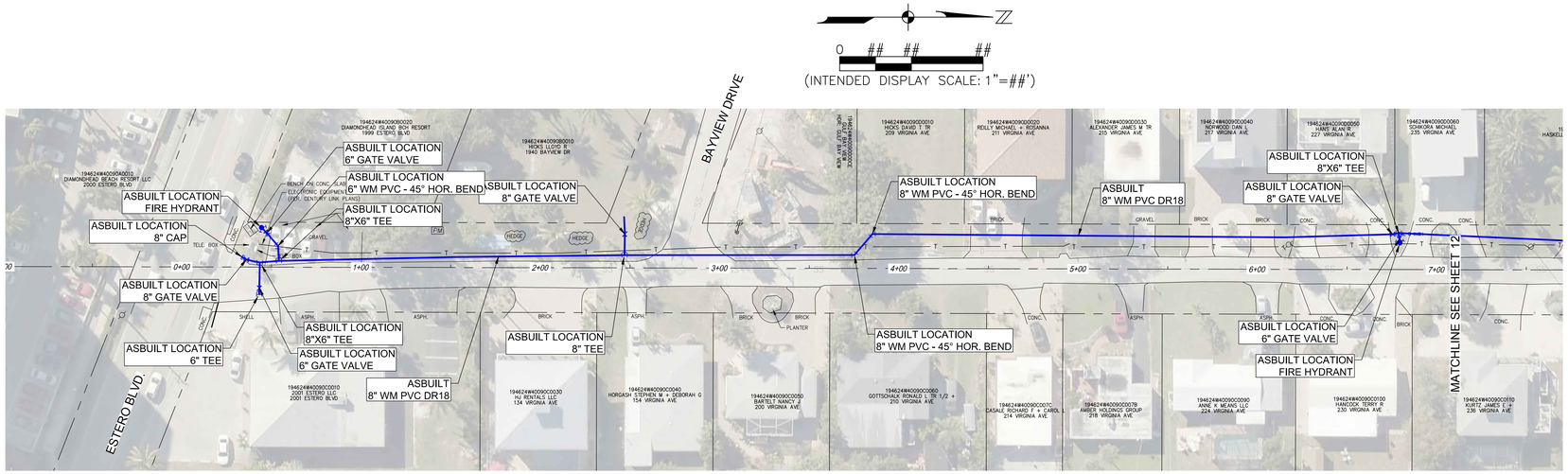
DATE:	FEBRUARY 24, 2015
PROJECT NO.	20139512-000
FILE NO.	19-46-24
SCALE:	As Shown

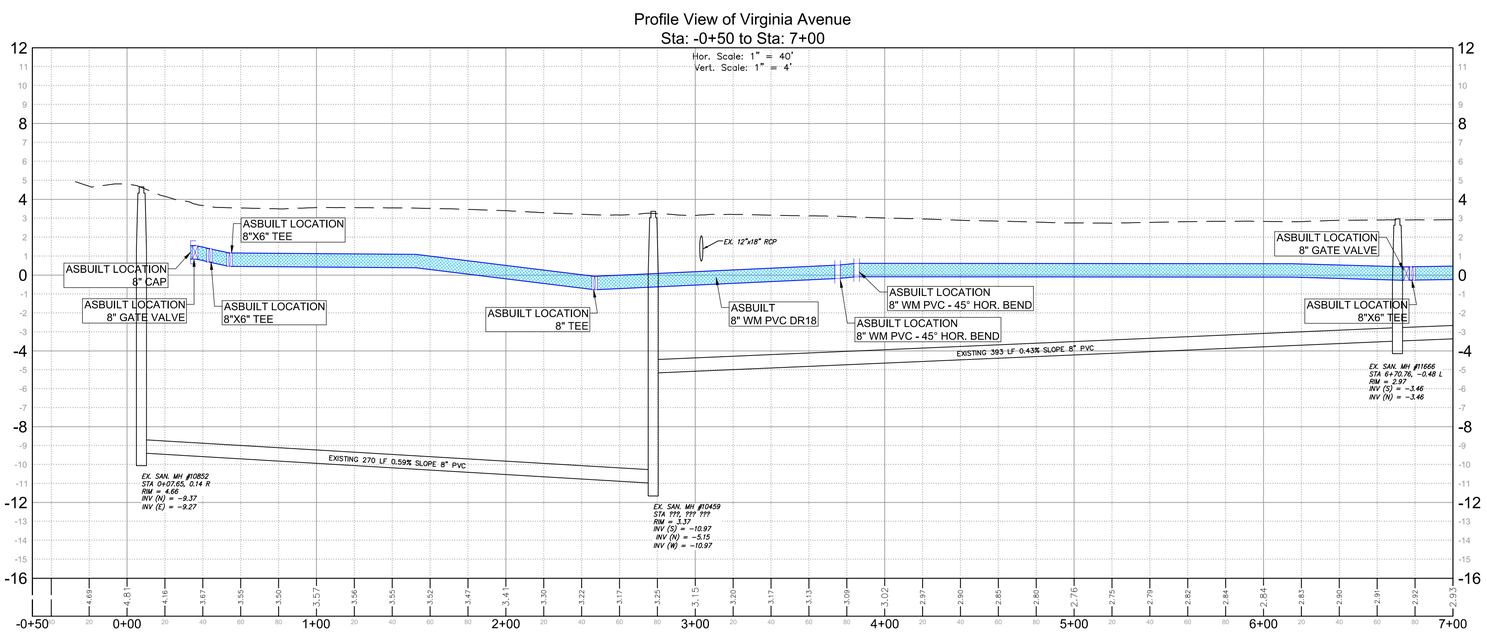
PLAN & PROFILE
OHIO AVENUE STATION
7+00_TO_14+50

RECORD DRAWINGS

SHEET NUMBER

10





RECORD DRAWING

PLAN VIEW
AS-BUILT DRAINAGE
AS-BUILT WATER MAIN

PROFILE VIEW
AS-BUILT DRAINAGE
AS-BUILT WATER MAIN

JOHNSON ENGINEERING
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Town of FORT MYERS BEACH FLORIDA

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1B
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE
1	MOVE WM TO WEST SIDE OF ROAD.	5/12/14

DATE:	FEBRUARY 24, 2015
PROJECT NO.	20139512-000
FILE NO.	19-46-24
SCALE:	As Shown

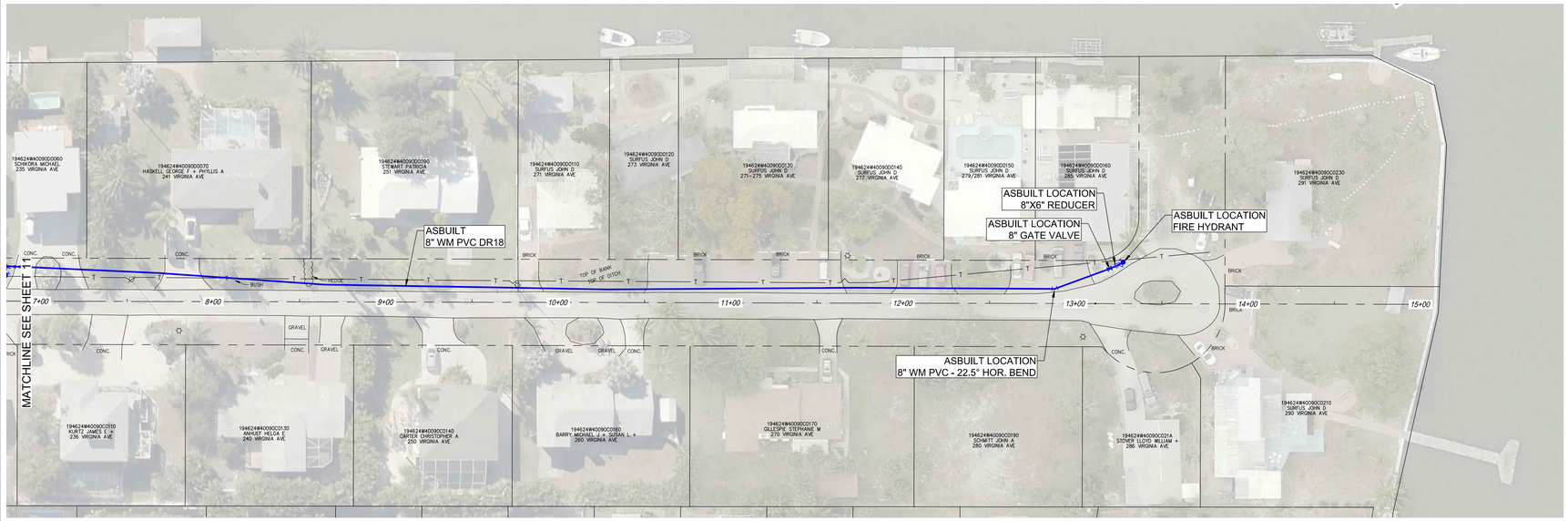
PLAN & PROFILE
VIRGINIA AVENUE
STATION -0+50_TO_7+00

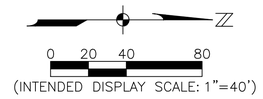
RECORD DRAWINGS

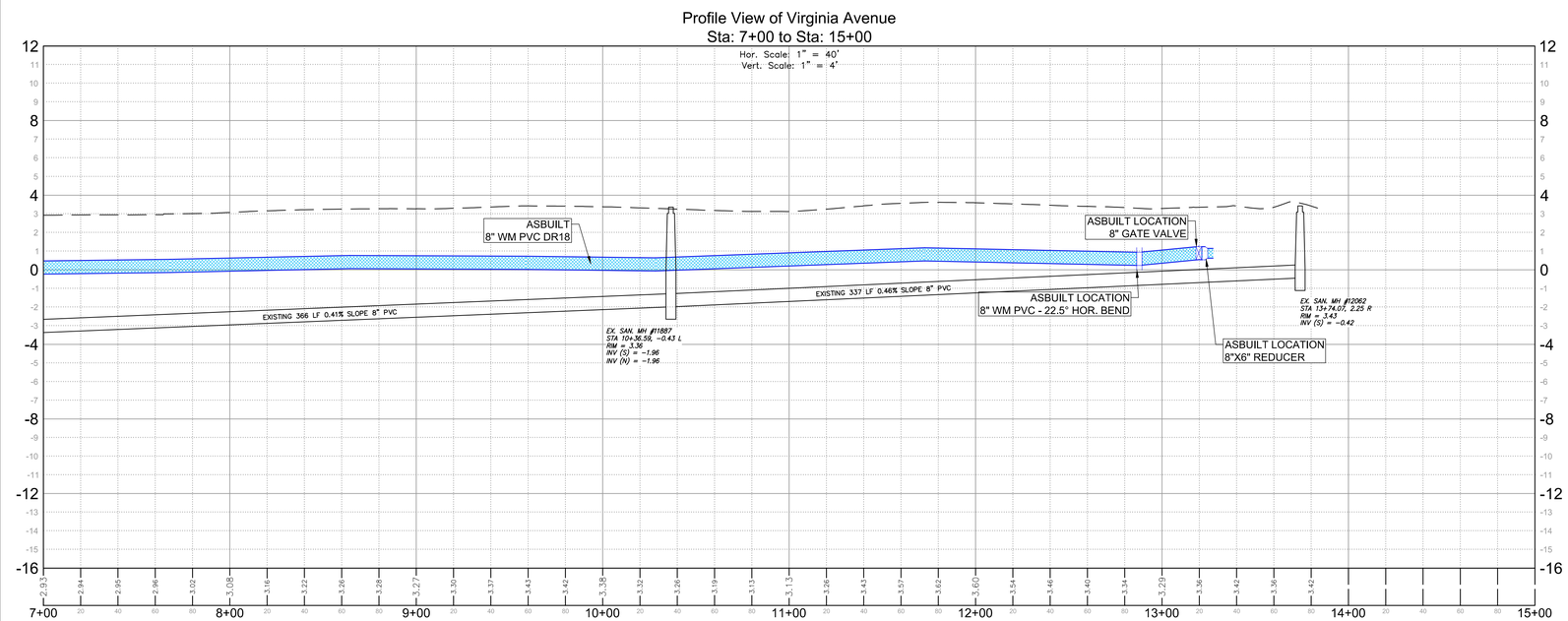
SHEET NUMBER

11

\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000_Phase 1b - AsBuilt.dwg (Virginia (1)) MNT Feb 24, 2015 - 9:56am







RECORD DRAWING

PLAN VIEW
- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

PROFILE VIEW
- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

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Town of FORT MYERS BEACH FLORIDA

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1B
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE
1	MOVE WM TO WEST SIDE OF ROAD.	5/12/14

DATE:	FEBRUARY 24, 2015
PROJECT NO.	20139512-000
FILE NO.	19-46-24
SCALE:	As Shown

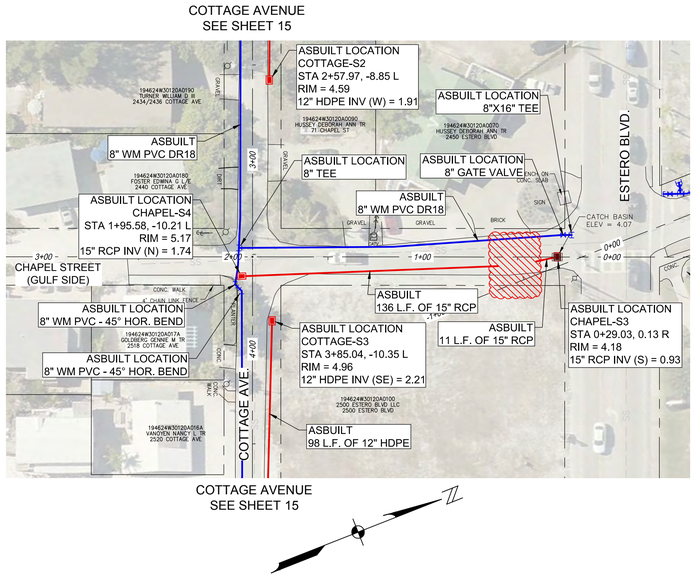
PLAN & PROFILE
VIRGINIA AVENUE
STATION
7+00_TO_15+00

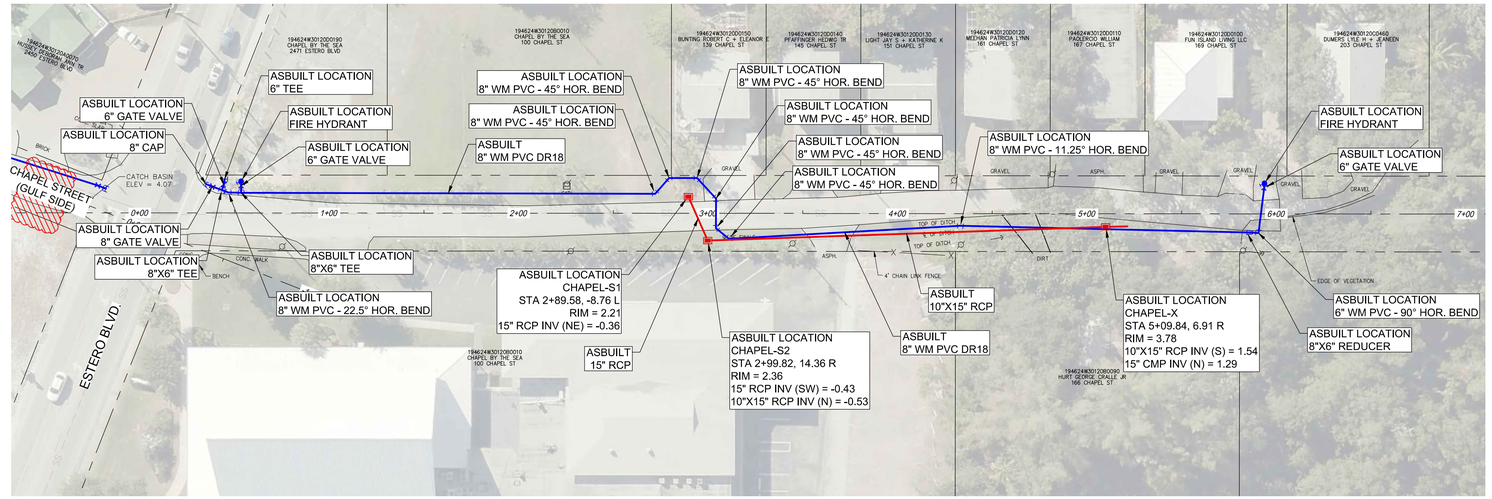
RECORD DRAWINGS

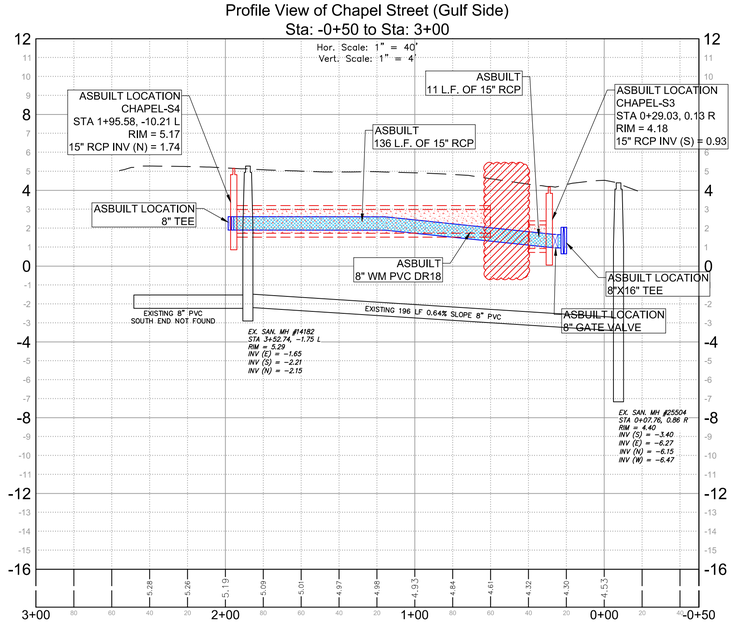
SHEET NUMBER

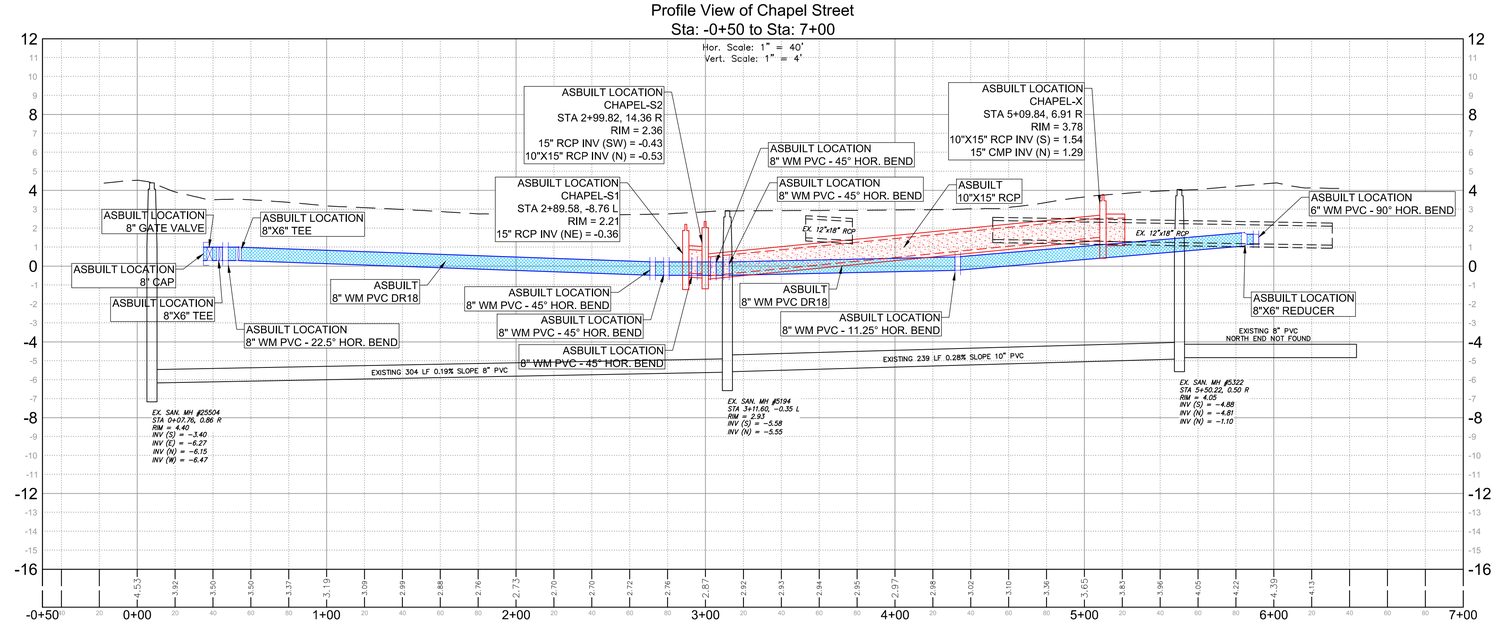
12

\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000_Phase 1b - AsBuilt.dwg (Virginia (2)) MNT Feb 24, 2015 - 9:57am









RECORD DRAWING

PLAN VIEW

AS-BUILT DRAINAGE

AS-BUILT WATER MAIN

PROFILE VIEW

AS-BUILT DRAINAGE

AS-BUILT WATER MAIN

JOHNSON ENGINEERING

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RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1B
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE

DATE:	FEBRUARY 24, 2015
PROJECT NO.	20139512-000
FILE NO.	19-46-24
SCALE:	As Shown

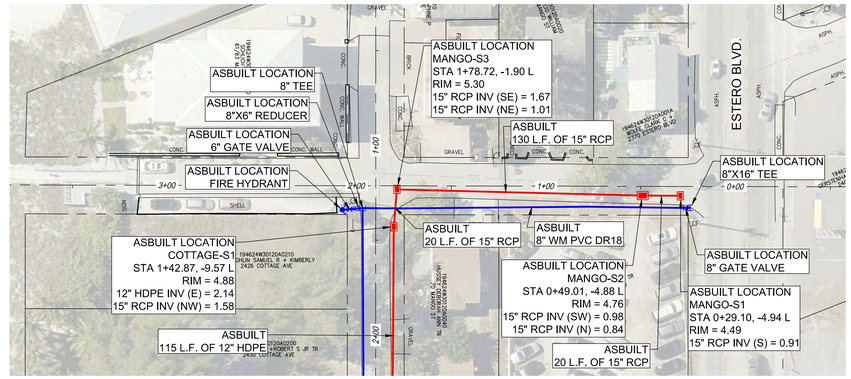
PLAN & PROFILE
CHAPEL STREET
STATION -0+50_TO_7+00

RECORD DRAWINGS

SHEET NUMBER

13

\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000_Phase 1b - AsBuilt.dwg (Chapel) MNT Feb 24, 2015 - 9:57am



COTTAGE AVENUE
SEE SHEET 15

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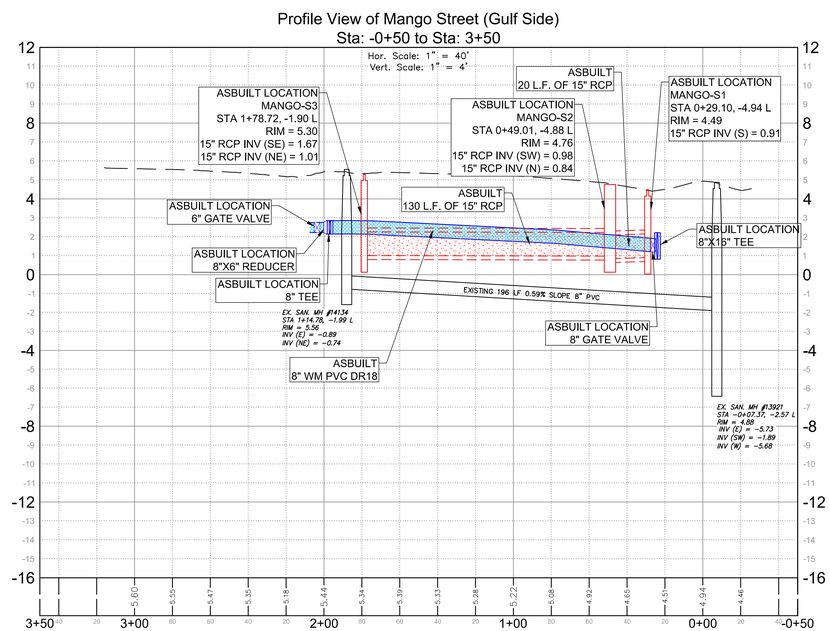


RECORD DRAWING

PLAN VIEW
AS-BUILT DRAINAGE
AS-BUILT WATER MAIN

PROFILE VIEW
AS-BUILT DRAINAGE
AS-BUILT WATER MAIN

JOHNSON ENGINEERING
2122 JOHNSON STREET
P.O. BOX 1550
FORT MYERS, FLORIDA 33902-1550
PHONE (239) 334-0046
FAX (239) 334-3661
E.B. #642 & L.B. #642

FOR DRAINAGE
RICARDO ACOSTA, PE
FL License No. 69121

FOR WATER MAIN
MICHAEL S. DICKEY, PE
FL License No. 60057

Town of FORT MYERS BEACH FLORIDA

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1B
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE
1	REVISE INV. AT MANGO-S2.	5/20/14

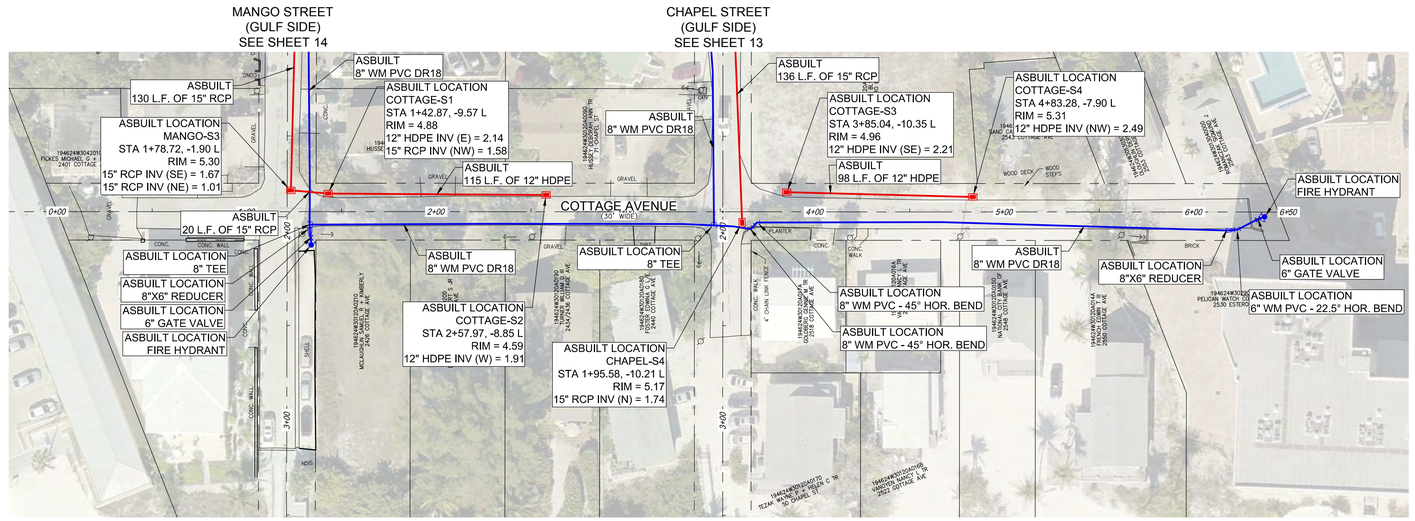
DATE: FEBRUARY 24, 2015
PROJECT NO. 20139512-000
FILE NO. 19-46-24
SCALE: As Shown

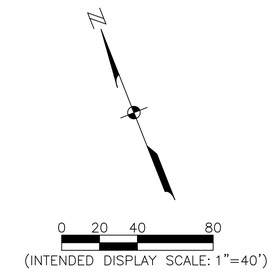
PLAN & PROFILE
MANGO (GULF SIDE)
STATION -0+50_TO_3+50

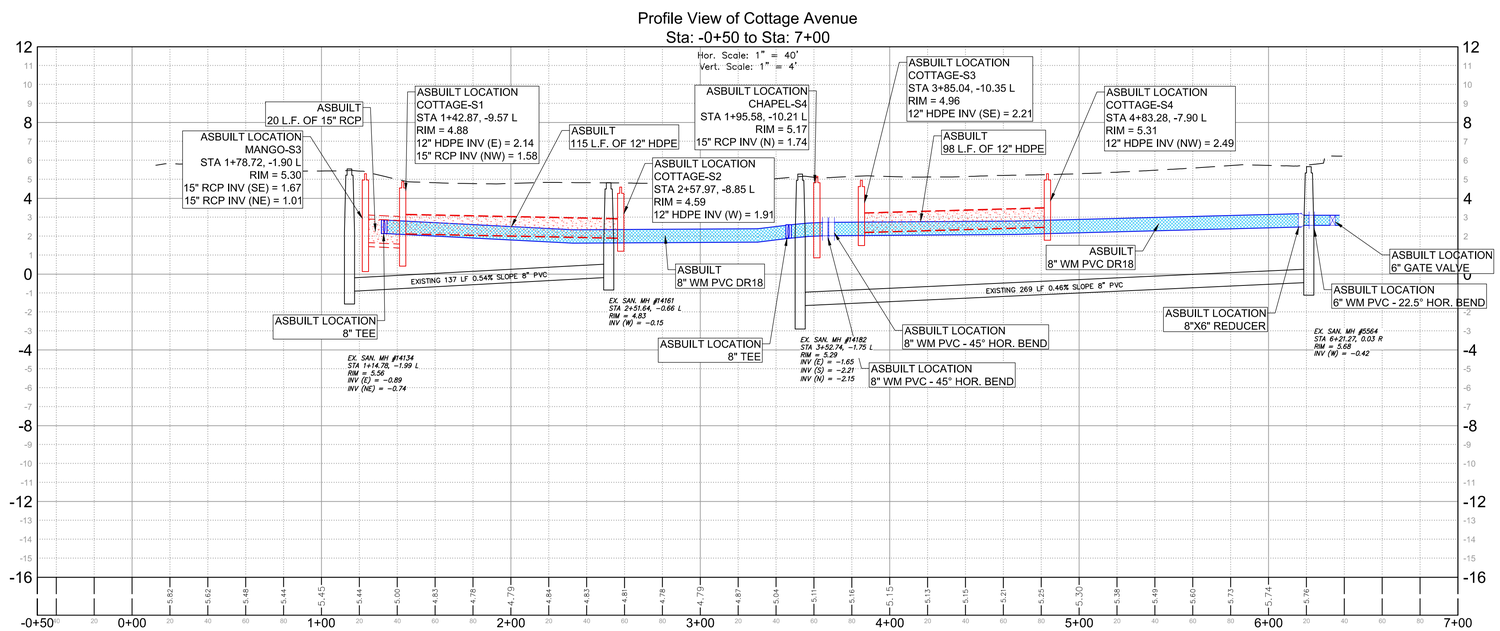
RECORD DRAWINGS

SHEET NUMBER
14

\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000_Phase 1b - AsBuilt.dwg (Mango (Gulf Side)) MNT Feb 24, 2015 - 9:57am







RECORD DRAWING

PLAN VIEW

AS-BUILT DRAINAGE

AS-BUILT WATER MAIN

PROFILE VIEW

AS-BUILT DRAINAGE

AS-BUILT WATER MAIN

\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000_Phase 1b - AsBuilt.dwg (Cottage) MNT Feb 24, 2015 - 9:58am

JOHNSON ENGINEERING

2122 JOHNSON STREET
P.O. BOX 1550
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PHONE (239) 334-0046
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E.B. #642 & L.B. #642

FOR DRAINAGE
RICARDO ACOSTA, PE
FL License No. 69121

FOR WATER MAIN
MICHAEL S. DICKEY, PE
FL License No. 60057

Town of FORT MYERS BEACH FLORIDA

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1B
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE

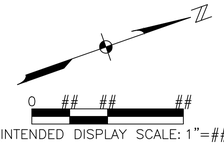
DATE:	FEBRUARY 24, 2015
PROJECT NO.	20139512-000
FILE NO.	19-46-24
SCALE:	As Shown

PLAN & PROFILE
COTTAGE AVENUE
STATION -0+50_TO_7+00

RECORD DRAWINGS

SHEET NUMBER

15



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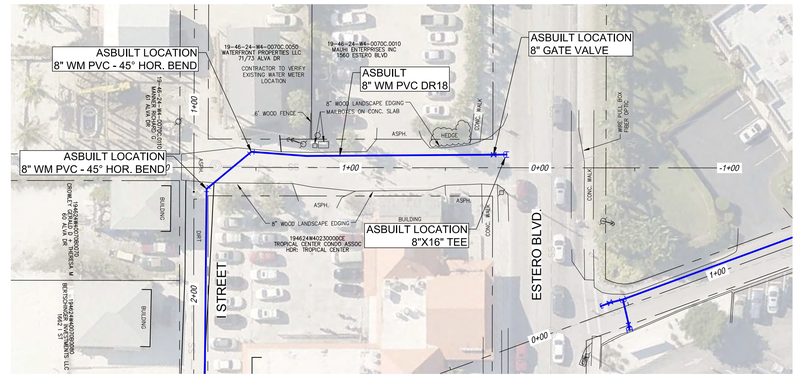
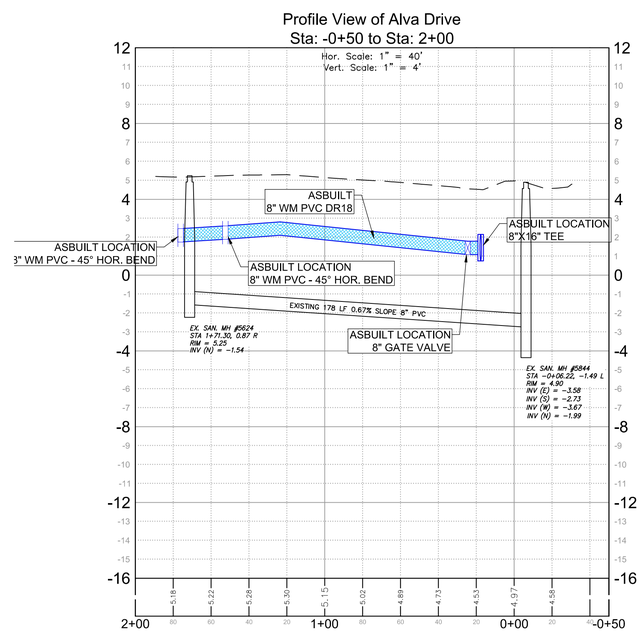


I STREET
SEE SHEET 18



RECORD DRAWING

PLAN VIEW
AS-BUILT DRAINAGE
AS-BUILT WATER MAIN

PROFILE VIEW
AS-BUILT DRAINAGE
AS-BUILT WATER MAIN

JOHNSON ENGINEERING
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Town of FORT MYERS BEACH FLORIDA

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1B
LEE COUNTY, FLORIDA

REVISIONS

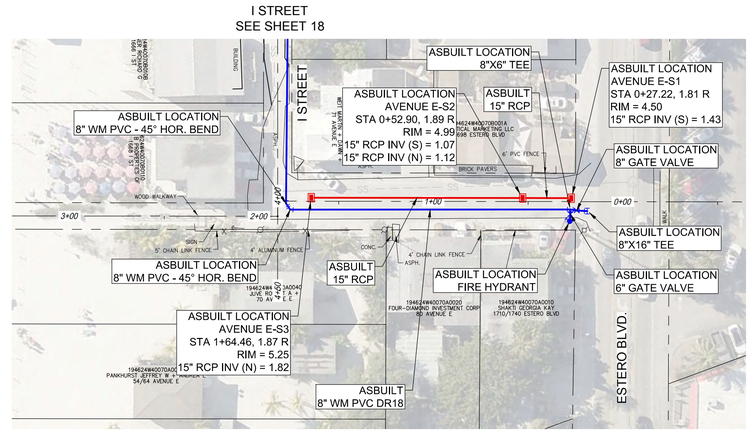
NO.	DESCRIPTION	DATE

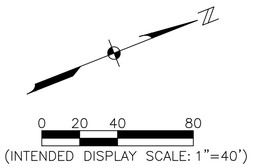
DATE: FEBRUARY 24, 2015
PROJECT NO. 20139512-000
FILE NO. 19-46-24
SCALE: As Shown

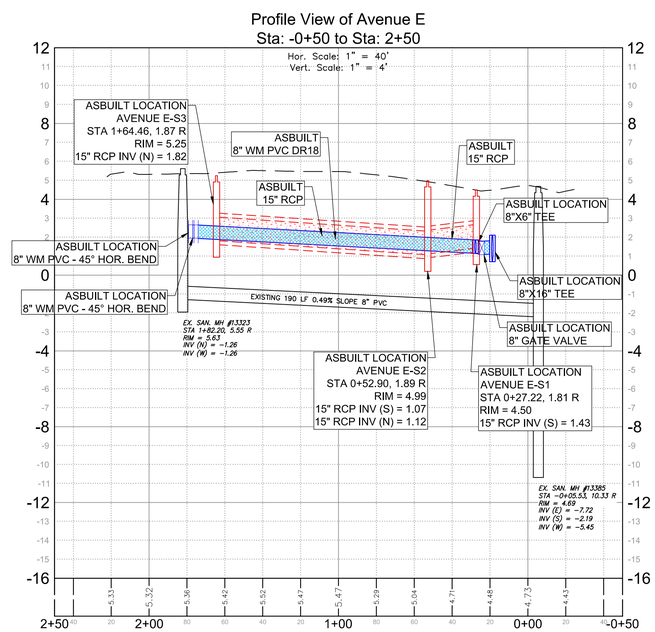
PLAN & PROFILE
ALVA DRIVE STATION
-0+50_TO_2+00

RECORD DRAWINGS

SHEET NUMBER
16







RECORD DRAWING

PLAN VIEW

AS-BUILT DRAINAGE

AS-BUILT WATER MAIN

PROFILE VIEW

AS-BUILT DRAINAGE

AS-BUILT WATER MAIN

JOHNSON ENGINEERING

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Town of FORT MYERS BEACH FLORIDA

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1B
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE

DATE:	FEBRUARY 24, 2015
PROJECT NO.	20139512-000
FILE NO.	19-46-24
SCALE:	As Shown

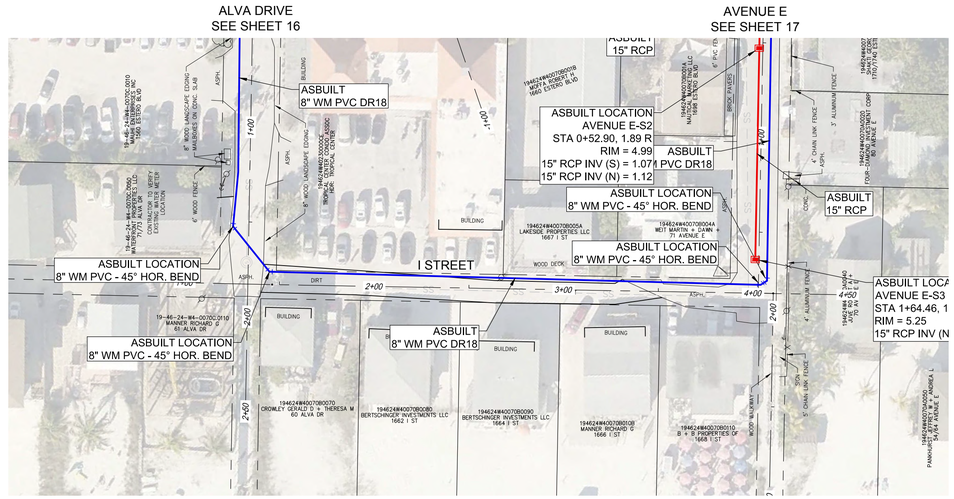
PLAN & PROFILE
AVENUE E STATION
-0+50_TO_2+50

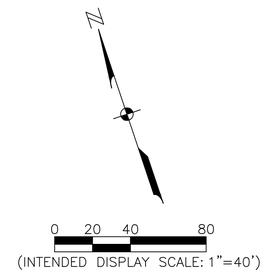
RECORD DRAWINGS

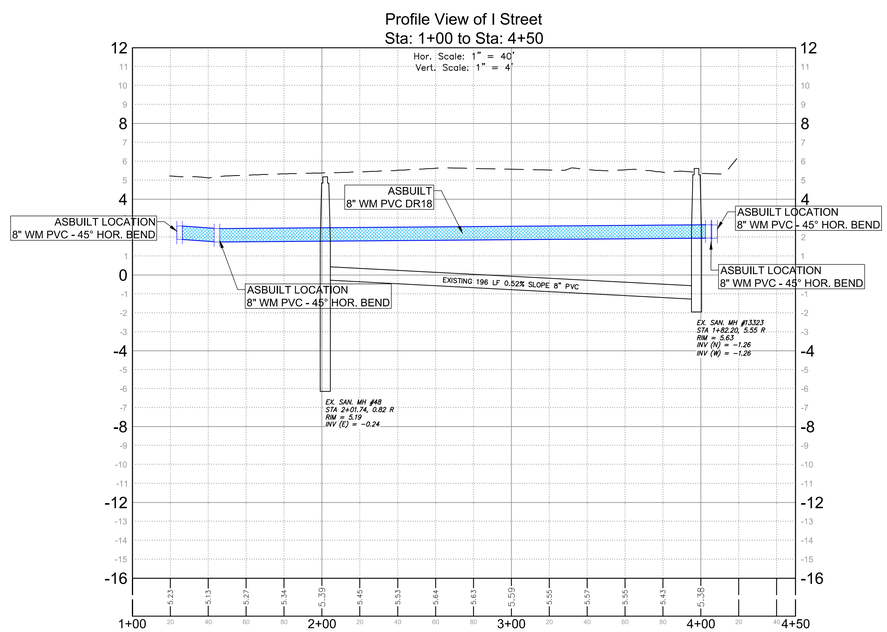
SHEET NUMBER

17

\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000_Phase 1b - AsBuilt.dwg (Avenue E) MNT Feb 24, 2015 - 9:59am







RECORD DRAWING

PLAN VIEW
- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

PROFILE VIEW
- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

JOHNSON ENGINEERING
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MICHAEL S. DICKEY, PE
FL License No. 60057

Town of FORT MYERS BEACH FLORIDA

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1B
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE

DATE:	FEBRUARY 24, 2015
PROJECT NO.	20139512-000
FILE NO.	19-46-24
SCALE:	As Shown

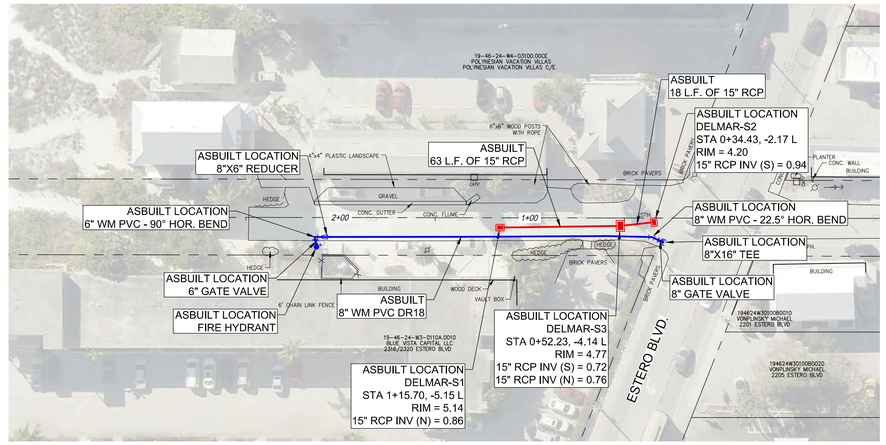
PLAN & PROFILE
I STREET STATION
1+00_TO_4+50

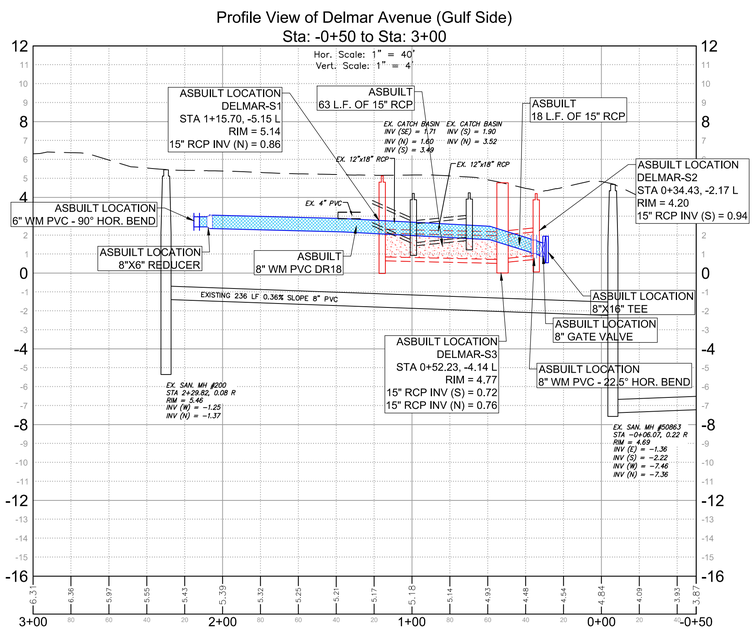
RECORD DRAWINGS

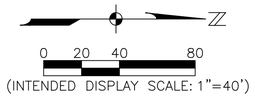
SHEET NUMBER

18

\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000_Phase 1b - AsBuilt.dwg (I Street) MNT Feb 24, 2015 - 9:59am







RECORD DRAWING

PLAN VIEW
- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

PROFILE VIEW
- AS-BUILT DRAINAGE
- AS-BUILT WATER MAIN

JOHNSON ENGINEERING
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Town of FORT MYERS BEACH FLORIDA

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1B
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE
1	REVISE INV. AT DELMAR-S1.	5/20/14

DATE:	FEBRUARY 24, 2015
PROJECT NO.	20139512-000
FILE NO.	19-46-24
SCALE:	As Shown

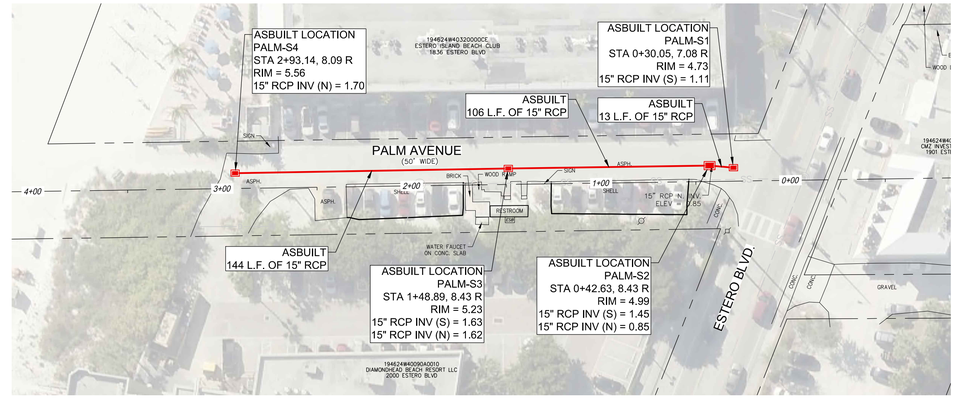
PLAN & PROFILE
DELMAR AVENUE (GULF SIDE) STATION -0+50_TO_3+00

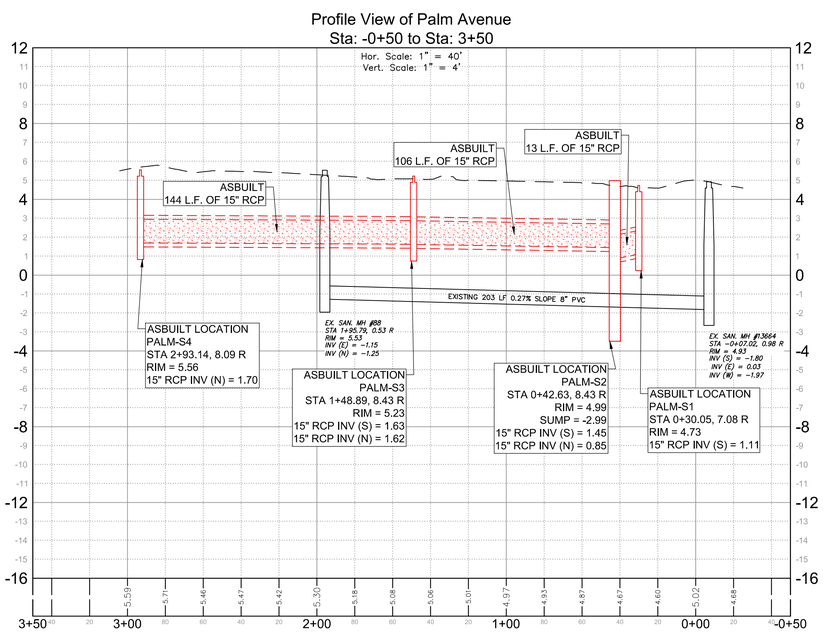
RECORD DRAWINGS

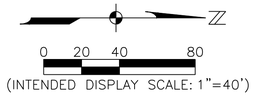
SHEET NUMBER

19

\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000_Phase 1b - AsBuilt.dwg (Delmar (Gulf Side)) MNT Feb 24, 2015 - 9:59am







RECORD DRAWING

PLAN VIEW
AS-BUILT DRAINAGE
AS-BUILT WATER MAIN

PROFILE VIEW
AS-BUILT DRAINAGE
AS-BUILT WATER MAIN

JOHNSON ENGINEERING
2122 JOHNSON STREET
P.O. BOX 1550
FORT MYERS, FLORIDA 33902-1550
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FOR DRAINAGE
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FL License No. 69121

FOR WATER MAIN
MICHAEL S. DICKEY, PE
FL License No. 60057

Town of FORT MYERS BEACH FLORIDA

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1A
LEE COUNTY, FLORIDA

REVISIONS

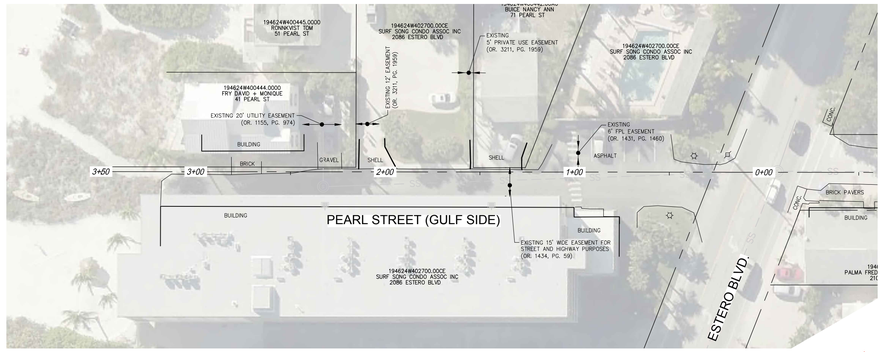
NO.	DESCRIPTION	DATE
1	ADD DRAINAGE ASBUILT INFO	4/23/15

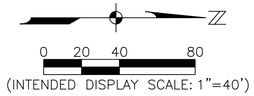
DATE:	FEBRUARY 19, 2015
PROJECT NO.	20139512-000
FILE NO.	19-46-24
SCALE:	As Shown

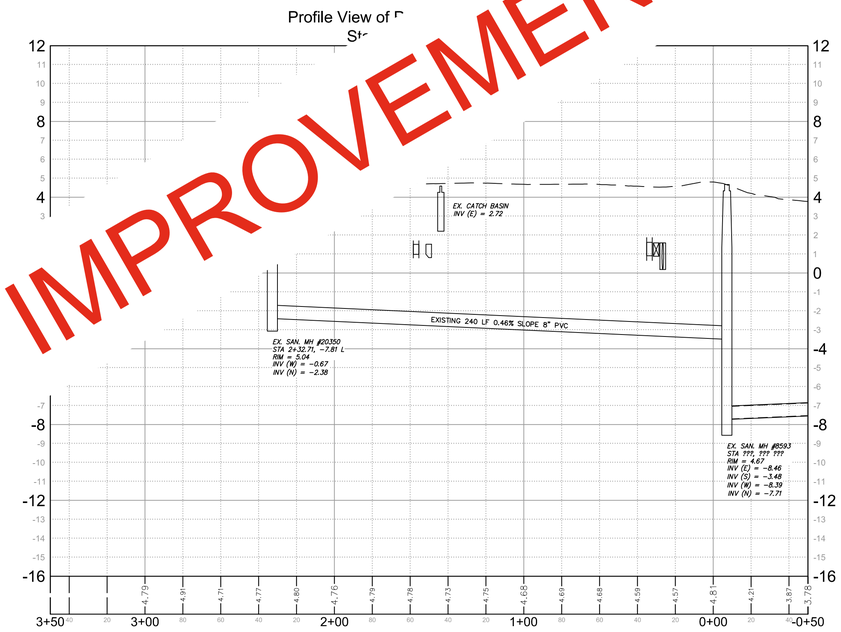
PLAN & PROFILE
PALM AVENUE (GULF SIDE) STATION -0+50_TO_3+50

RECORD DRAWINGS

SHEET NUMBER
20







NO IMPROVEMENTS MADE

RECORD DRAWING

PLAN VIEW

AS-BUILT DRAINAGE

AS-BUILT WATER MAIN

PROFILE VIEW

AS-BUILT DRAINAGE

AS-BUILT WATER MAIN

JOHNSON ENGINEERING
2122 JOHNSON STREET
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FOR WATER MAIN
MICHAEL S. DICKEY, PE
FL License No. 60057

Town of FORT MYERS BEACH FLORIDA

RECORD DRAWINGS
WATER MAIN REPLACEMENT AND
DRAINAGE IMPROVEMENTS FOR THE
BASIN BASED NEIGHBORHOOD
PHASE-1B
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE

DATE:	FEBRUARY 24, 2015
PROJECT NO.	20139512-000
FILE NO.	19-46-24
SCALE:	As Shown

PLAN & PROFILE
PEARL STREET (GULF SIDE) STATION -0+50_TO_3+50

RECORD DRAWINGS

SHEET NUMBER

21

\\FTMS01\Drawings\2013\20139512-000\Surveying\As-Builts\20139512-000_Phase 1b - AsBuilt.dwg (Pearl (Gulf Side)) MNT Feb 24, 2015 - 10:00am

TOWN of FORT MYERS BEACH
RFQ #13-02-PW Design-Build Services for Phase 1 Water Distribution System Improvements

EXHIBIT "G"
ESTIMATE AND REQUISITION FOR PAYMENT
(1 of 3 Pages)

Date: 1/31/16

Bid No.: _____ RFQ No.: 13-02 Project No.: _____

Estimate No.: 21 (☐ Partial X ☐ Final) for Period 7/13/15 to 1/31/16

Project Name: AMENDMENTS 1,2 AND 3 PW DESIGN-BUILD SERVICES FOR PHASE 1 WATER DISTRIBUTION SYSTEM IMPROVEMENTS (NEIGHBORHOOD STREETS)

PAYEE: Firm's Name: Mitchell & Stark Construction Co. Inc.

Mailing Address: 6001 Shirley St.
City & State Naples ZIP CODE 34109

Deliver Warrant: Special Instructions - If Other than Mail

Attach a list of names and addresses of all Sub-Contractors, material men, or suppliers that are to be paid from this requisition.

CONTRACTUAL FINANCIAL DATA

Date of Original Contract: 9/6/13.

Total Amount of Original Contract					$743,088.46
PLUS: Change Order #	Amen 2	dated	11/8/13	$2,415,928.14	
Change Order #	Amen 3	dated	4/8/14	$ 2,558,388.85	
Change Order #	Amen5	dated		$ 321,894.83	
Change Order #		dated		$	
Change Order #		dated		$	
Change Order #		dated		$	
Total Change Orders ADDING to cost of Contract					$5,296,211.82
LESS: Change Order #		dated		$	
Change Order #		dated		$	
Change Order #		dated		$	
Change Order #		dated		$	
Change Order #		dated		$	
Change Order #		dated		$	
Total Change Orders SUBTRACTING from cost of Contract					$0
Less Total Unit Price Amount Not Used Per Final Field Measurements					$0
TOTAL OF ABOVE					$6,039,300.28

SPECIAL NOTE: Any change orders which affect the contract not previously transmitted to the Town's Finance Office or to Contracts Mgmt must be properly executed and attached to this form before payment will be made.

Total Completed this Requisition $375,054.08 Retainage $0

Total Complete to Date (Column F, Sheet 3)	$5,651,093.74
Retainage 0% (Percent required in Contract Documents) . . .amendment two, three and five only	$0
Total Earned Less Retainage	$5,651,093.74
Less Prior Payments Made	$5,046,500.28
Less Liquidated Damages	
Amount of this Requisition	$604,593.46

Total Amount Paid to DBE's from above $0

EXHIBIT "G"
FINAL PAYMENT CERTIFICATION AND FIRM'S AFFIDAVIT
(3 of 3 Pages)

Project Name: PW DESIGN BUILD SERVICES PH 1 WATER NEIGHBORHOOD STREETS

RFQ No..: 13-02

Contract No.:
Estimate No.: 21
Project No.:
Requisition Date: 1/31/16
Period From: 7/13/15
To: 1/31/16

I do hereby certify that all items and amounts shown in the requisition for payment are correct and all work has been performed and materials delivered. This waiver and release of lien is conditioned upon payment of the consideration specified herein. It is not effective until said payment is received. I further certify that the consideration received in exchange for this final waiver and release of lien, when received is designated by the Contractor to be applied to the payment of subcontractors, material men, and suppliers who have furnished such services, labor, materials and supplies for which this request for payment is being made.

For warranty and guarantee start date, it is understood and agreed that the date of the final completion of the Work shall apply unless otherwise provided in the Certificate of substantial completion at which time the OWNER initiates occupancy or utilizes the Work or designated portion thereof for the use for which it is intended, whichever is first.

Signed: _____
Firm

Date: 1/31/16

CORPORATE SEAL

STATE OF FLORIDA
COUNTY OF COLLIER

The foregoing instrument was signed and acknowledged before me this _31____ day of _JANUARY_____, 2016__, BRIAN PENNER by _____
(Print or Type Name)
who has produced P-560-076-59-348-0 as identification.
(Type of Identification and Number)

Notary Public Signature

Belinda Burgbacher
Printed Name of Notary Public

FF-162074 1-22-19
Notary Commission Number/Expiration

BELINDA BURGBACHER
MY COMMISSION # FF 162074
EXPIRES: January 22, 2019
Bonded Thru Notary Public Underwriters

I do hereby certify that to the best of my knowledge and belief, all items and amounts shown in this Estimate and Requisition for Payment are correct and that all work has been performed in accordance with the requirements of the Contract Documents. Accordingly, I hereby certify the amount of $604,593.28 to the Town of Fort Myers Beach for final payment.

Substantial Completion Date: 12/31/15
Final Completion Date: 1/31/16

Signed: _____
Owner's Rep. Preparing Estimate

Date: 2-5-16

Signed: _____
Department/Division Director

Date: _____

APPROVAL RECOMMENDED
By: _____

Town Attorney

Date: _____

TO: TOWN OF FORT MYER BEACH
FOR: RFQ # 13-02 PW DESIGN BUILD SERVICES FOR PH. I WATER DISTRIBUTION SYSTEMS IMPROVEMENTS NEIGHBOR STREETS
FROM: MITCHELL & STARK CONST. CO. INC.
DATE: 1/31/2016
PAY EST: 21

LIST OF SUB CONTRACTORS, MATERIAL MEN OR SUPPLIERS THAT ARE TO BE PAID FROM THIS REQUISTIONS

1 NONE
2
3

TOWN OF FORT MYERS BEACH
2523 ESTERO BLVD.
FORT MYERS BEACH LEE COUNTY FLORIDA 33931

PROJECT: RFQ #13-02-PW DESIGN-BUILD SERVICES FOR PH. 1
WATER DISTRIBUTION IMPROVEMENTS
M&S JOB # #131647

APPLICATION #	21
PERIOD FROM:	7/13/2015
PERIOD TO:	1/31/2016
MS JOB #:	131647
CONTRACT DAT	9/5/2013

MITCHELL & STARK CONST. CO., INC.
6001 SHIRLEY STREET
NAPLES, FLORIDA 34109

OWNER ENGINEE TETRA TECH, INC.
10600 CHEROLET WAY SUITE 300
ESTERO, FL. 33928

		ADDITIONS	DEDUCTIONS
AMENDMENT TWO		$2,415,928.14	$0.00
AMENDMENT THREE		$2,558,388.85	$0.00
AMENDMENT FIVE		$321,894.83	$0.00
	TOTALS	$5,296,211.82	$0.00
			$5,296,211.82

Application is made for Payment, as shown below

1.	ORIGINAL CONTRACT SUM	$743,088.46
2.	Net change by Change Orders	$5,296,211.82
3.	CONTRACT SUM TO DATE	$6,039,300.28
4.	TOTAL COMPLETED & STORED TO DATE	$5,651,093.74
5.	RETAINAGE FOR AMENDMENT 2,3 AND 4	
	a. RETAINAGE PREVIOUS HELD	$0.00
	b. RETAINAGE HELD THIS PERIOD	$0.00
	Total Retainage	$0.00
6.	TOTAL EARNED LESS RETAINAGE	$5,651,093.74
7.	LESS PREVIOUS CERTIFICATES FOR PAYMENT	$5,046,500.28
8.	CURRENT PAYMENT DUE	$604,593.46
9.	BALANCE TO FINISH, PLUS RETAINAGE	$388,206.54

CONTRACTOR: MITCHELL & STARK CONSTRUCTION CO. INC.

BY: DATE: 1/31/2016
BRIAN PENNER CEO

State of: Florida County of: COLLIER

Subcribe and Sworn to me January 31,2016

Notary Public:

BELINDA BURGBACHER
MY COMMISSION # FF 162074
EXPIRES: January 22, 2019
Bonded Thru Notary Public Underwriters

My Commission Expires:

AMOUNT CERTIFIED

ENGINEER:
By:

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

PROJECT NAME: RFQ: 13-02-PW DESIGN -BUILD SERVICES FOR PHASE1 WATER DISTRIBUTION SYSTEM IMPROVEMENTS

PROJECT NO: 131647
ESTIMATE NO: 21

DESCRIPTION	ORIGINAL QUANITY	UNIT	UNIT PRICE	CURRENT CONTRACT	PREVIOUS QUANTITY	PREVIOUS AMOUNTS	CURRENT QUANTITY	CURRENT AMOUNT	TOTAL QUANTITY	TOTAL AMOUNT
M/S BILLINGS										
PROJECT MANAGEMENT	1	T&M	$9,690.00	$9,690.00	0.8173373	$7,920.00		$0.00	0.8173373	$7,920.00
WATER MAIN DESIGN SERVICECE BA	1	T&M	$12,000.00	$12,000.00	0.875	$10,500.00		$0.00	0.875	$10,500.00
WATER MAIN & STORM DESIGN BASI	1	T&M	$17,050.00	$17,050.00	0.8592374	$14,650.00		$0.00	0.8592374	$14,650.00
DESIGN SERVICE LEE COUNTY M/S	1	T&M	$3,600.00	$3,600.00	0	$0.00		$0.00	0	$0.00
SURVEY SERVICES AND SUE M/S	1	T&M	$43,200.00	$43,200.00	0.0138888	$600.00		$0.00	0.0138888	$600.00
SKETCH AND DESCRIPTIONS M/S	1	T&M	$150.00	$150.00	0	$0.00		$0.00	0	$0.00
PERMITTING ASSISTANCE M/S	1	T&M	$1,800.00	$1,800.00	0.4166653	$750.00		$0.00	0.4166653	$750.00
REIMBURSABLES M/S	1	T&M	$4,000.00	$4,000.00	0	$0.00			0	$0.00
PUBLIC AWARENESS M/S	1	T&M	$1,200.00	$1,200.00	1.25	$1,500.00		$0.00	1.25	$1,500.00
JEI BILLINGS WITH M/S FEE										
PROJECT MANAGEMENT	1	LS	$27,720.00	$27,720.00	1	$27,720.00		$0.00	1	$27,720.00
WATER MAIN DESIGN SERVICECE B/	1	LS	$84,700.00	$84,700.00	1	$84,700.00		$0.00	1	$84,700.00
WATER MAIN & STORM DESIGN BASI	1	LS	$220,990.00	$220,990.00	1	$220,990.00		$0.00	1	$220,990.00
DESIGN SERVICE LEE COUNTY M/S	1	LS	$17,622.00	$17,622.00	0	$0.00		$0.00	0	$0.00
SURVEY SERVICES AND SUE M/S	1	LS	$189,832.50	$189,832.50	1	$189,832.50		$0.00	1	$189,832.50
SKETCH AND DESCRIPTIONS M/S	1	LS	$3,355.00	$3,355.00	1	$3,355.00		$0.00	1	$3,355.00
PERMITTING ASSISTANCE M/S	1	T&M	$65,824.00	$65,824.00	0.70801595	$48,694.45	0	$0.00	0.70801595	$48,694.45
REIMBURSABLES M/S	1	T&M	$5,500.00	$5,500.00	0.12078	$5,631.40			0.12078	$5,631.40
PUBLIC AWARENESS M/S	1	T&M	$0.00	$0.00	0	$0.00		$0.00	0	$0.00
CMA BILLINGS WITH M/S FEE										
PUBLIC AWARENESS CMA	1	T&M	$34,854.96	$34,854.96	1	$34,854.96		$0.00	1	$34,854.96
TOTAL PROJECT FOR AMENDMENT ONE WORK				$743,088.46		$651,698.30		$0.00		$651,698.30
ADMENDMENT TWO WORK										
MS BILLINGS										
4.1 PUBLIC INFORMATION PROGRAM	1	T&M	$6,000.00	$6,000.00	0.5	$3,000.00		$0.00	0.5	$3,000.00
4.2 TELEPHONE HOTLINE & EMAIL HC	1	T&M	$300.00	$300.00	0	$0.00		$0.00	0	$0.00
4.3 CORDINATION MEETINGS	1	T&M	$2,400.00	$2,400.00	0.0625	$150.00		$0.00	0.0625	$150.00
4.4 NOTIFICATIONS TO EX. BUSINESS	1	T&M	$300.00	$300.00	0	$0.00		$0.00	0	$0.00
4.5 INTERUPTION OF SERVICE NOTIF	1	T&M	$300.00	$300.00	0	$0.00		$0.00	0	$0.00
Project Reimbursables	1	T&M	$1,000.00	$1,000.00	0	$0.00		$0.00	0	$0.00
JEI BILLINGS WITH M/S FEE										
SURVEY / RECORD DRAWINGS	1	LS	$16,280.00	$16,280.00	1	$16,280.00		$0.00	1	$16,280.00
CONSTRUCTION ADMINISTRATION A	1	LS	$32,747.00	$32,747.00	0.9976484	$32,670.00		$0.00	0.9976484	$32,670.00
REIMBURSABLES	1	T&M	$1,100.00	$1,100.00		$0.00		$0.00		$0.00
CMA BILLINGS WITH M/S FEE										
CONSTRUCTION	1	T&M	$265,496.33	$265,496.33	0.91	$250,150.27		$0.00	0.91	$250,150.27
subtotal for engineering and public awareness						$302,250.27		$0.00		$302,250.27
STORM DRAINAGE										
24X38 ERCP	557	LF	$87.16	$48,548.12	0	$0.00		$0.00	0	$0.00
15 INCH RCP	208	LF	$39.01	$8,114.08	118	$4,603.18		$0.00	118	$4,603.18
18 INCH RCP	777	LF	$43.25	$33,605.25	1387	$59,987.75		$0.00	1387	$59,987.75

24 INCH RCP	1844	LF	$57.08	$105,255.52	2131	$121,637.48		$0.00	2131	$121,637.48
30 INCH RCP	1323	LF	$70.50	$93,271.50	1042	$73,461.00		$0.00	1042	$73,461.00
H INLET	6	EA	$5,540.00	$33,240.00	6	$33,240.00		$0.00	6	$33,240.00
C INLET	18	EA	$2,310.00	$41,580.00	17	$39,270.00		$0.00	17	$39,270.00
E INLET	9	EA	$3,240.00	$29,160.00	9	$29,160.00		$0.00	9	$29,160.00
2400 STORMCEPTOR	1	EA	$50,130.00	$50,130.00	1	$50,130.00		$0.00	1	$50,130.00
450 STORMCEPTOR	3	EA	$22,270.00	$66,810.00	3	$66,810.00		$0.00	3	$66,810.00
7200 STORMCEPTOR	1	EA	$110,000.00	$110,000.00	1	$110,000.00		$0.00	1	$110,000.00
INLET PROTECTION 102	15	EA	$100.00	$1,500.00	15	$1,500.00		$0.00	15	$1,500.00
GRATE INLET SKIMMERS	8	EA	$1,630.00	$13,040.00	8	$13,040.00		$0.00	8	$13,040.00
REMOVE EX. INLET	2	EA	$500.00	$1,000.00	2	$1,000.00		$0.00	2	$1,000.00
REMOVE 15 RCP	30	LF	$9.00	$270.00	30	$270.00		$0.00	30	$270.00
RIP RAP	5	TN	$67.00	$335.00	5	$335.00		$0.00	5	$335.00
FLOATING TURBIDITY CURTAIN	460	LF	$15.00	$6,900.00	460	$6,900.00		$0.00	460	$6,900.00
REMOVE MES AND RCP	1	EA	$500.00	$500.00	1	$500.00		$0.00	1	$500.00
MODIFY SEAWALL FOR PIPE CONNE	4	EA	$10,000.00	$40,000.00	4	$40,000.00		$0.00	4	$40,000.00
CONNECT TO EX. STRUCTURE	1	EA	$500.00	$500.00	1	$500.00		$0.00	1	$500.00
SILT FENCE	1410	LF	$1.00	$1,410.00	300	$300.00		$0.00	300	$300.00
BOND	1	LS	$9,101.00	$9,101.00	1	$9,101.00		$0.00	1	$9,101.00
SHOPPING CENTER DRIVEWAY REP	2	EA	$1,600.00	$3,200.00	2	$3,200.00		$0.00	2	$3,200.00
ASPHALT DRIVEWAY REPAIR	11	EA	$1,200.00	$13,200.00	11	$13,200.00		$0.00	11	$13,200.00
CONCRETE DRIVEWAY REPAIR	20	EA	$1,200.00	$24,000.00	20	$24,000.00		$0.00	20	$24,000.00
GRAVEL/SHELL DRIVEWAY REPAIR	11	EA	$300.00	$3,300.00	11	$3,300.00		$0.00	11	$3,300.00
PAVER BRICK DRIVEWAY REPAIR	7	EA	$1,100.00	$7,700.00	7	$7,700.00		$0.00	7	$7,700.00
ROAD CROSSING REPAIR	9	EA	$3,000.00	$27,000.00	9	$27,000.00		$0.00	9	$27,000.00
ROAD REPAIR	2054	LF	$25.00	$51,350.00	2054	$51,350.00		$0.00	2054	$51,350.00
CURB REPAIR	20	LF	$35.00	$700.00	20	$700.00		$0.00	20	$700.00
MOT	1	LS	$8,000.00	$8,000.00	1	$8,000.00		$0.00	1	$8,000.00
SOD	10893	SY	$2.00	$21,786.00	10893	$21,786.00		$0.00	10893	$21,786.00
DENSITY TEST	1	LS	$3,500.00	$3,500.00	1	$3,500.00		$0.00	1	$3,500.00
GENERAL CONDITIONS	1	LS	$18,000.00	$18,000.00	1	$18,000.00		$0.00	1	$18,000.00
GEO TECHNICAL SERVICES	1	LS	$3,000.00	$3,000.00	1	$3,000.00		$0.00	1	$3,000.00
RELOCATE WATER SERVICES	40	EA	$200.00	$8,000.00	0	$0.00		$0.00	0	$0.00
HOLD POWER POLE	1	EA	$1,500.00	$1,500.00	1	$1,500.00		$0.00	1	$1,500.00
FLAP GATE	1	ALLOW	$15,000.00	$15,000.00	0	$0.00		$0.00	0	$0.00
VIDEO	4500	LF	$0.35	$1,575.00	4500	$1,575.00		$0.00	4500	$1,575.00
CLEARING INCLUDING REMOVAL OF	1	LS	$25,000.00	$25,000.00	1	$25,000.00		$0.00	1	$25,000.00
TOTAL STORM DRAINAGE ADMENDMENT TWO						$874,556.41		$0.00		$874,556.41
WATERMAIN										
8 INCH DR 18 WM	8260	LF	$24.01	$198,322.60	8160	$195,921.60		$0.00	8160	$195,921.60
8 INCH GATE VALVE	11	EA	$1,360.00	$14,960.00	11	$14,960.00		$0.00	11	$14,960.00
ARV	1	EA	$2,810.00	$2,810.00	0	$0.00		$0.00	0	$0.00
8 INCH DEFLECTION	14	EA	$1,880.00	$26,320.00	14	$26,320.00		$0.00	14	$26,320.00
FIRE HYDRANT	15	EA	$4,150.00	$62,250.00	15	$62,250.00		$0.00	15	$62,250.00
CONNECT TO EX. WATER MAIN	5	EA	$4,490.00	$22,450.00	5	$22,450.00		$0.00	5	$22,450.00
SINGLE WATER SERVICE SHORT	60	EA	$650.00	$39,000.00	60	$39,000.00		$0.00	60	$39,000.00
SINGLE WATER SERVICE LONG	100	EA	$1,495.00	$149,500.00	100	$149,500.00		$0.00	100	$149,500.00
DOUBLE WATER SERVICE SHORT	11	EA	$831.00	$9,141.00	11	$9,141.00		$0.00	11	$9,141.00
DOUBLE WATER SERVICE LOING	34	EA	$1,702.00	$57,868.00	34	$57,868.00		$0.00	34	$57,868.00
RECONNECT SINGLE WATER SERVIC	160	EA	$100.00	$16,000.00	160	$16,000.00		$0.00	160	$16,000.00
RECONNECT DOUBLE WATER SERV	45	EA	$150.00	$6,750.00	45	$6,750.00		$0.00	45	$6,750.00
3/4 INCH DOUBLE DECTOR CHECK V	205	EA	$180.00	$36,900.00	205	$36,900.00		$0.00	205	$36,900.00
NEW WATER METERS 5/8 - 3/4	205	EA	$365.00	$74,825.00	205	$74,825.00		$0.00	205	$74,825.00
MOT	1	LS	$5,000.00	$5,000.00	1	$5,000.00		$0.00	1	$5,000.00
WATER MAIN TESTING	1	LS	$14,000.00	$14,000.00	1	$14,000.00		$0.00	1	$14,000.00
CONCRETE DRIVEWAY RESTORATIC	33	EA	$1,200.00	$39,600.00	23	$27,600.00		$0.00	23	$27,600.00
ASPHALT DRIVEWAY RESTORATION	8	EA	$1,200.00	$9,600.00	14	$16,800.00		$0.00	14	$16,800.00

STONE DRIVEWAY RESTORATION	26	EA	$300.00	$7,800.00	24	$7,200.00		$0.00	24	$7,200.00
PAVER DRIVEWAY RESTORATION	19	EA	$1,000.00	$19,000.00	21	$21,000.00		$0.00	21	$21,000.00
ROAD CROSSING RESTORATION	4	EA	$3,000.00	$12,000.00	6	$18,000.00		$0.00	6	$18,000.00
ROAD RESTORATION	4460	LF	$25.00	$111,500.00	4460	$111,500.00		$0.00	4460	$111,500.00
SOD	10893	SY	$2.00	$21,786.00	10700	$21,400.00		$0.00	10700	$21,400.00
GENERAL CONDITIONS	1	LS	$20,000.00	$20,000.00	1	$20,000.00		$0.00	1	$20,000.00
RELOCATE WATER SERVICES	20	EA	$200.00	$4,000.00	0	$0.00		$0.00	0	$0.00
VIDEO	3500	LF	$0.35	$1,225.00	3500	$1,225.00		$0.00	3500	$1,225.00
CLEARING INCLUDE REMOVAL OF DI	1	LS	$15,000.00	$15,000.00	1	$15,000.00		$0.00	1	$15,000.00
BOND	1	LS	$9,900.00	$9,900.00	1	$9,900.00		$0.00	1	$9,900.00
TOTAL WATER MAIN ADMENDMENT TWO						$1,000,510.60		$0.00		$1,000,510.60
LEE COUNTY SEWER RELOCATION										
RELOCATE EX. SEWER LATERALS	60	EA	$2,000.00	$120,000.00	12	$24,000.00		$0.00	12	$24,000.00
CONTINGENCY	1	LS	$32,415.74	$32,415.74		$0.00		$0.00		$0.00
TOTAL FOR ADMENDMENT TWO				$2,415,928.14		$2,201,317.28		$0.00		$2,201,317.28
AMENDMENT # 3 PHASE IB										
JEI BILLINGS WITH M/S FEE										
SURVEY/CONST. STAKING 12 ROADS	1	LS	$37,015.00	$37,015.00	1	$37,015.00		$0.00	1	$37,015.00
CONST. ADMIN & FINAL CERTIFICATI	1	LS	$64,372.00	$64,372.00	0.998995695	$64,307.36	0	$0.00	0.998995695	$64,307.36
PROJECT REIMBURSABLES	1	T&M	$1,100.00	$1,100.00	0	$5.92		$0.00	0	$5.92
ADDITIONAL SKETCH AND DESCRIPT	1	T&M	$3,355.00	$3,355.00	0	$0.00		$0.00	0	$0.00
SUBTOTAL				$105,842.00		$101,328.28		$0.00		$101,328.28
GENERAL CONDITIONS STORM DRAINAGE GULF AND BAY SIDE										
SILT FENCE	1500	LF	$1.00	$1,500.00	475	$475.00		$0.00	475	$475.00
BOND	1	LS	$9,000.00	$9,000.00	1	$9,000.00		$0.00	1	$9,000.00
MOT	1	LS	$11,000.00	$11,000.00	1	$11,000.00		$0.00	1	$11,000.00
SOD	3513	SY	$2.00	$7,026.00	3513	$7,026.00		$0.00	3513	$7,026.00
DENSITY TEST	1	LS	$8,500.00	$8,500.00	1	$8,500.00		$0.00	1	$8,500.00
MISCELANEOUS GENERAL CONDITIC	1	LS	$18,000.00	$18,000.00	1	$18,000.00		$0.00	1	$18,000.00
RELOCATE / REPAIR WATER SERVIC	40	EA	$200.00	$8,000.00	0	$0.00		$0.00	0	$0.00
VIDEO	3591	LF	$0.35	$1,256.85	3591	$1,256.85		$0.00	3591	$1,256.85
CLEARING INCLUDING REMOVAL OF	1	LS	$33,000.00	$33,000.00	1	$33,000.00		$0.00	1	$33,000.00
PEDISTRIAN GRATES ON EX. STRUC	22	EA	$570.00	$12,540.00	22	$12,540.00		$0.00	22	$12,540.00
ADDED STORM DRAINAGE 140 PEAR	1	EA	$27,365.74	$27,365.74	1	$27,365.74		$0.00	1	$27,365.74
ADDED STORM DRAINAGE 145 TROP	1	EA	$18,443.70	$18,443.70	1	$18,443.70		$0.00	1	$18,443.70
SUBTOTAL				$155,632.29		$146,607.29		$0.00		$146,607.29
BAY SIDE STORM DRAINAGE										
MIROMAR (BAY SIDE										
15 INCH RCP	53	LF	$39.70	$2,104.10	53	$2,104.10		$0.00	53	$2,104.10
18 INCH RCP	1185	LF	$44.24	$52,424.40	1185	$52,424.40		$0.00	1185	$52,424.40
TYPE C INLET FRAME AND PEDESTF	12	EA	$2,753.00	$33,036.00	12	$33,036.00		$0.00	12	$33,036.00
TYPE H INLET GRATE ONLY	1	EA	$5,693.00	$5,693.00	1	$5,693.00		$0.00	1	$5,693.00
3/4 INCH ASPHALT S-III ONE LIFT	1185	SY	$9.50	$11,257.50	1185	$11,257.50		$0.00	1185	$11,257.50
6 INCH LIMEROCK	1185	SY	$13.00	$15,405.00	1185	$15,405.00		$0.00	1185	$15,405.00
12 INCH STABILIZE SUBGRADE	1185	SY	$4.00	$4,740.00	1185	$4,740.00		$0.00	1185	$4,740.00
ROAD CROSSING	5	EA	$3,000.00	$15,000.00	5	$15,000.00		$0.00	5	$15,000.00
TURBIDITY BARRIER	120	LF	$15.00	$1,800.00	120	$1,800.00		$0.00	120	$1,800.00
450 STORM CEPTOR	1	EA	$22,270.00	$22,270.00	1	$22,270.00		$0.00	1	$22,270.00
SUBTOTAL				$163,730.00		$163,730.00		$0.00		$163,730.00
OHIO										

15 INCH RCP	324	LF	$39.70	$12,862.80	324	$12,862.80		$0.00	324	$12,862.80
12X18 ERCP	24	LF	$48.50	$1,164.00	24	$1,164.00		$0.00	24	$1,164.00
12X 18 ERCP PERF. 8 FOOT WIDE	89	LF	$87.25	$7,765.25	89	$7,765.25		$0.00	89	$7,765.25
TYPE C INLET FRAME AND PEDESTF	4	EA	$2,753.00	$11,012.00	4	$11,012.00		$0.00	4	$11,012.00
ROAD REPAIR	340	LF	$25.00	$8,500.00	340	$8,500.00		$0.00	340	$8,500.00
ROAD CROSSING	1	EA	$3,000.00	$3,000.00	1	$3,000.00		$0.00	1	$3,000.00
SUBTOTAL				$44,304.05		$44,304.05		$0.00		$44,304.05
CHAPEL ST. (BAY SIDE)										
15 INCH RCP	26	LF	$39.70	$1,032.20	0	$0.00		$0.00	0	$0.00
TYPE C INLET FRAME AND PEDESTF	2	EA	$2,753.00	$5,506.00	0	$0.00		$0.00	0	$0.00
ROAD CROSSING	1	EA	$3,000.00	$3,000.00	0	$0.00		$0.00	0	$0.00
SWALE	340	LF	$8.00	$2,720.00	0	$0.00		$0.00	0	$0.00
SUBTOTAL				$12,258.20	0	$0.00		$0.00	0	$0.00
TOTAL BAY SIDE DRAINAGE NO GENERAL CONDITIONS				$220,292.25		$208,034.05		$0.00		$208,034.05
GULF SIDE STORM DRAINAGE										
MIROMAR ST. GULF SIDE OPTION TWO STORM CAPTURE										
3/4 INCH ASPHALT S-III ONE LIFT	622	SY	$9.50	$5,909.00	622	$5,909.00		$0.00	622	$5,909.00
6 INCH LIMEROCK	622	SY	$13.00	$8,086.00	622	$8,086.00		$0.00	622	$8,086.00
12 INCH STABILIZE SUBGRADE	622	SY	$4.00	$2,488.00	622	$2,488.00		$0.00	622	$2,488.00
STORM CAPTURE 6X12X3	4	EA	$21,480.00	$85,920.00	3	$64,440.00		$0.00	3	$64,440.00
REMOVE CATCH BASIN	1	EA	$500.00	$500.00	1	$500.00		$0.00	1	$500.00
ADJUST SANITARY MANHOLE	1	EA	$300.00	$300.00	1	$300.00		$0.00	1	$300.00
RAISE EX. GRATE	1	EA	$300.00	$300.00	1	$300.00		$0.00	1	$300.00
REMOVE GEO WEB	1	EA	$800.00	$800.00	1	$800.00		$0.00	1	$800.00
REMOVE EX. 10 INCH PIPE	20	LF	$10.00	$200.00	20	$200.00		$0.00	20	$200.00
PLUG EX. 10 INCH PIPE	1	EA	$100.00	$100.00	1	$100.00		$0.00	1	$100.00
REGRADE EX. DRIVEWAY	1	EA	$7,500.00	$7,500.00	1	$7,500.00		$0.00	1	$7,500.00
REMOVE EX. HEDGE (Town to Replac	1	LS	$1,900.00	$1,900.00	1	$1,900.00		$0.00	1	$1,900.00
15 INCH PERF RCP	213	LF	$74.08	$15,779.04	213	$15,779.04		$0.00	213	$15,779.04
15 INCH RCP	25	LF	$39.70	$992.50	25	$992.50		$0.00	25	$992.50
TYPE C INLET FRAME AND PEDESTF	2	EA	$2,753.00	$5,506.00	2	$5,506.00		$0.00	2	$5,506.00
TYPE E INLET WITH SKIMMERS, FRAI	1	EA	$4,731.00	$4,731.00	1	$4,731.00		$0.00	1	$4,731.00
SUBTOTAL				$141,011.54		$119,531.54		$0.00		$119,531.54
CHAPEL ST. GULF SIDE ONLY OPTION TWO										
3/4 INCH ASPHALT S-III ONE LIFT	410	SY	$9.50	$3,895.00	410	$3,895.00		$0.00	410	$3,895.00
6 INCH LIMEROCK	410	SY	$13.00	$5,330.00	410	$5,330.00		$0.00	410	$5,330.00
12 INCH STABILIZE SUBGRADE	410	SY	$4.00	$1,640.00	410	$1,640.00		$0.00	410	$1,640.00
STONE TRENCH	1000	SF	$7.10	$7,100.00	1000	$7,100.00		$0.00	1000	$7,100.00
15 INCH RCP	18	LF	$39.70	$714.60	18	$714.60		$0.00	18	$714.60
15 INCH PERF. RCP	151	LF	$74.08	$11,186.08	151	$11,186.08		$0.00	151	$11,186.08
TYPE C INLET FRAME AND PEDESTF	2	EA	$2,753.00	$5,506.00	2	$5,506.00		$0.00	2	$5,506.00
TYPE E INLET WITH SKIMMERS, FRAI	1	EA	$4,731.00	$4,731.00	1	$4,731.00		$0.00	1	$4,731.00
SUBTOTAL				$40,102.68		$40,102.68		$0.00		$40,102.68
MANGO ST.GULF SIDE ONLY OPTION TWO										
3/4 INCH ASPHALT S-III ONE LIFT	355	SY	$9.50	$3,372.50	355	$3,372.50		$0.00	355	$3,372.50
6 INCH LIMEROCK	355	SY	$13.00	$4,615.00	355	$4,615.00		$0.00	355	$4,615.00
12 INCH STABILIZE SUBGRADE	355	SY	$4.00	$1,420.00	355	$1,420.00		$0.00	355	$1,420.00
STONE TRENCH	1800	SF	$7.10	$12,780.00	1800	$12,780.00		$0.00	1800	$12,780.00
15 INCH RCP	21	LF	$39.70	$833.70	21	$833.70		$0.00	21	$833.70
15 INCH PERF. RCP	130	LF	$74.08	$9,630.40	130	$9,630.40		$0.00	130	$9,630.40
TYPE C INLET FRAME AND PEDESTF	2	EA	$2,753.00	$5,506.00	2	$5,506.00		$0.00	2	$5,506.00

TYPE E INLET WITH SKIMMERS, FRAI	1	EA	$4,731.00	$4,731.00	1	$4,731.00		$0.00	1	$4,731.00
CONCRETE DRIVEWAY	1	EA	$1,200.00	$1,200.00	1	$1,200.00		$0.00	1	$1,200.00
SUBTOTAL				$44,088.60		$44,088.60		$0.00		$44,088.60
COTTAGE AVE OPTION THREE										
12 INCH PERF. HDPE	171	LF	$43.60	$7,455.60	171	$7,455.60		$0.00	171	$7,455.60
STONE TRENCH	513	SF	$7.10	$3,642.30	513	$3,642.30		$0.00	513	$3,642.30
ASPHALT REPAIR	171	LF	$25.00	$4,275.00	171	$4,275.00		$0.00	171	$4,275.00
TYPE C INLET FRAME AND PEDESTF	4	EA	$2,310.00	$9,240.00	4	$9,240.00		$0.00	4	$9,240.00
CONNECT PIPE TO NEW DRAINAGE	1	LS	$1,500.00	$1,500.00	1	$1,500.00		$0.00	1	$1,500.00
SUBTOTAL				$26,112.90		$26,112.90		$0.00		$26,112.90
PALM AVE OPTION THREE										
15 INCH RCP	16	LF	$39.70	$635.20	16	$635.20		$0.00	16	$635.20
15 INCH PERF. RCP	252	LF	$74.08	$18,668.16	252	$18,668.16		$0.00	252	$18,668.16
TYPE C INLET FRAME AND PEDESTF	1	EA	$2,753.00	$2,753.00	1	$2,753.00		$0.00	1	$2,753.00
TYPE E INLET WITH SKIMMERS, FRAI	1	EA	$4,731.00	$4,731.00	1	$4,731.00		$0.00	1	$4,731.00
STONE TRENCH	1300	SF	$7.10	$9,230.00	1300	$9,230.00		$0.00	1300	$9,230.00
3/4 INCH ASPHALT S-III ONE LIFT	645	SY	$9.50	$6,127.50	645	$6,127.50		$0.00	645	$6,127.50
6 INCH LIMEROCK	645	SY	$13.00	$8,385.00	645	$8,385.00		$0.00	645	$8,385.00
12 INCH STABILIZE SUBGRADE	645	SY	$4.00	$2,580.00	645	$2,580.00		$0.00	645	$2,580.00
SUBTOTAL				$53,109.86	0	$53,109.86		$0.00	0	$53,109.86
DELMAR GULF SIDE ONLY OPTION THREE										
15 INCH RCP	19	LF	$39.70	$754.30	19	$754.30		$0.00	19	$754.30
15 INCH PERF. RCP	168	LF	$74.08	$12,445.44	158	$11,704.64		$0.00	158	$11,704.64
TYPE C INLET FRAME AND PEDESTF	3	EA	$2,753.00	$8,259.00	3	$8,259.00		$0.00	3	$8,259.00
TYPE E INLET WITH SKIMMERS, FRAI	1	EA	$4,731.00	$4,731.00	1	$4,731.00		$0.00	1	$4,731.00
STONE TRENCH	1300	SF	$7.10	$9,230.00	1300	$9,230.00		$0.00	1300	$9,230.00
3/4 INCH ASPHALT S-III ONE LIFT	530	SY	$9.50	$5,035.00	530	$5,035.00		$0.00	530	$5,035.00
6 INCH LIMEROCK	530	SY	$13.00	$6,890.00	530	$6,890.00		$0.00	530	$6,890.00
12 INCH STABILZE SUBGRADE	530	SY	$4.00	$2,120.00	530	$2,120.00		$0.00	530	$2,120.00
SUBTOTAL				$49,464.74		$48,723.94		$0.00		$48,723.94
AVE E OPTION THREE										
15 INCH RCP	26	LF	$39.70	$1,032.20	26	$1,032.20		$0.00	26	$1,032.20
15 INCH PERF. RCP	114	LF	$74.08	$8,445.12	114	$8,445.12		$0.00	114	$8,445.12
TYPE C INLET FRAME AND PEDESTF	2	EA	$2,753.00	$5,506.00	2	$5,506.00		$0.00	2	$5,506.00
TYPE E INLET WITH SKIMMERS, FRAI	1	EA	$4,731.00	$4,731.00	1	$4,731.00		$0.00	1	$4,731.00
STONE TRENCH	1500	SF	$7.10	$10,650.00	1500	$10,650.00		$0.00	1500	$10,650.00
3/4 INCH ASPHALT S-III ONE LIFT	378	SY	$9.50	$3,591.00	378	$3,591.00		$0.00	378	$3,591.00
6 INCH LIMEROCK	378	SY	$13.00	$4,914.00	378	$4,914.00		$0.00	378	$4,914.00
12 INCH STABILIZE SUBGRADE	378	SY	$4.00	$1,512.00	378	$1,512.00		$0.00	378	$1,512.00
SUBTOTAL				$40,381.32	0	$40,381.32		$0.00	0	$40,381.32
					0	$0.00		$0.00	0	$0.00
TOTAL GULF SIDE DRAINAGE				$394,271.64	0	$372,050.84		$0.00	0	$372,050.84
					0	$0.00		$0.00	0	$0.00
TOTAL DRAINAGE				$770,196.18	0	$726,692.18		$0.00	0	$726,692.18
WATERMAIN										
8 INCH DR 18 WM	8751	LF	$24.94	$218,249.94	8751	$218,249.94		$0.00	8751	$218,249.94
6 INCH DR 18 WM	344	LF	$22.42	$7,712.48	344	$7,712.48		$0.00	344	$7,712.48
8 INCH GATE VALVE	21	EA	$1,360.00	$28,560.00	21	$28,560.00		$0.00	21	$28,560.00
6 INCH GATE VALVE	5	EA	$1,260.00	$6,300.00	5	$6,300.00		$0.00	5	$6,300.00
ARV	2	EA	$2,810.00	$5,620.00	0	$0.00		$0.00	0	$0.00
8 INCH DEFLECTION	26	EA	$1,880.00	$48,880.00	26	$48,880.00		$0.00	26	$48,880.00
FIRE HYDRANT	21	EA	$4,150.00	$87,150.00	21	$87,150.00		$0.00	21	$87,150.00

ROAD CROSSING	18	EA	$3,000.00	$54,000.00	18	$54,000.00		$0.00	18	$54,000.00
CONNECT TO EX. WATER MAIN	13	EA	$4,490.00	$58,370.00	13	$58,370.00		$0.00	13	$58,370.00
SINGLE WATER SERVICE SHORT	107	EA	$650.00	$69,550.00	107	$69,550.00		$0.00	107	$69,550.00
SINGLE WATER SERVICE LONG	128	EA	$1,495.00	$191,360.00	128	$191,360.00		$0.00	128	$191,360.00
RECONNECT SINGLE WATER SERVIC	235	EA	$100.00	$23,500.00	200	$20,000.00		$0.00	200	$20,000.00
2 INCH WATER SERVICE NO RELOCA	2	EA	$2,100.00	$4,200.00	2	$4,200.00		$0.00	2	$4,200.00
2 INCH METER NO ADJUSTMENT OF	2	EA	$746.00	$1,492.00	2	$1,492.00		$0.00	2	$1,492.00
RECONNECT 2 INCH WATER SERVIC	2	EA	$150.00	$300.00	2	$300.00		$0.00	2	$300.00
3/4 INCH DOUBLE DECTOR CHECK V	235	EA	$180.00	$42,300.00	0	$0.00		$0.00	0	$0.00
NEW WATER METERS 5/8 - 3/4	235	EA	$365.00	$85,775.00	0	$0.00		$0.00	0	$0.00
MOT	1	LS	$5,000.00	$5,000.00	1	$5,000.00		$0.00	1	$5,000.00
WATER MAIN TESTING	1	LS	$18,190.00	$18,190.00	1	$18,190.00		$0.00	1	$18,190.00
CONCRETE DRIVEWAY RESTORATIC	22	EA	$1,200.00	$26,400.00	22	$26,400.00		$0.00	22	$26,400.00
ASPHALT DRIVEWAY RESTORATION	1	EA	$1,200.00	$1,200.00	1	$1,200.00		$0.00	1	$1,200.00
STONE DRIVEWAY RESTORATION	11	EA	$300.00	$3,300.00	11	$3,300.00		$0.00	11	$3,300.00
PAVER DRIVEWAY RESTORATION	12	EA	$1,000.00	$12,000.00	12	$12,000.00		$0.00	12	$12,000.00
3/4 INCH S-III ASPHALT	7557	SY	$9.50	$71,791.50	7557	$71,791.50		$0.00	7557	$71,791.50
6 INCH LIMEROCK	7557	SY	$13.00	$98,241.00	7557	$98,241.00		$0.00	7557	$98,241.00
12 INCH STABILIZE SUBGRADE	7557	SY	$4.00	$30,228.00	7557	$30,228.00		$0.00	7557	$30,228.00
3/4 INCH MILL/ LEVLING COURSE FIN	1	ALLOW	$12,000.00	$12,000.00	1	$12,000.00		$0.00	1	$12,000.00
3/4 INCH ASPHALT OVERLAY S-III FI	20211	SY	$5.75	$116,213.25	20211	$116,213.25	0	$0.00	20211	$116,213.25
3/4 INCH ASPHALT OVERLAY S-III FIN	21111	SY	$5.75	$121,388.25	21111	$121,388.25	0	$0.00	21111	$121,388.25
ADJUST CATCH BAINS	12	EA	$500.00	$6,000.00	12	$6,000.00	0	$0.00	12	$6,000.00
SOD	10893	SY	$2.00	$21,786.00	7315	$14,630.00		$0.00	7315	$14,630.00
GENERAL CONDITIONS	1	LS	$20,000.00	$20,000.00	1	$20,000.00		$0.00	1	$20,000.00
RELOCATE / REPAIR WATER SERVIC	20	EA	$200.00	$4,000.00	0	$0.00		$0.00	0	$0.00
VIDEO	9095	LF	$0.35	$3,183.25	9095	$3,183.25		$0.00	9095	$3,183.25
CLEARING INCLUDE REMOVAL OF DI	1	LS	$29,000.00	$29,000.00	1	$29,000.00		$0.00	1	$29,000.00
BOND	1	LS	$14,000.00	$14,000.00	1	$14,000.00		$0.00	1	$14,000.00
DENSITY TESTING WATER MAIN	1	LS	$7,450.00	$7,450.00	1	$7,450.00		$0.00	1	$7,450.00
INVESTIGATE .UNKNOWN WATER SE	1	ALLOW	$25,000.00	$25,000.00	0	$0.00		$0.00	0	$0.00
TOTAL WATER MAIN				$1,579,690.67	0	$1,406,339.67		$0.00	0	$1,406,339.67
					0	$0.00		$0.00	0	$0.00
LEE COUNTY SEWER RELOCATION					0	$0.00		$0.00	0	$0.00
RELOCATE EX. SEWER LATERALS	20	EA	$2,000.00	$40,000.00	0	$0.00		$0.00	0	$0.00
ADD DEWATER AND EXCAVATION C	422	LF	$30.00	$12,660.00	0	$0.00		$0.00	0	$0.00
TOTAL LEE COUNTY SEWER RELOCATION				$52,660.00	0	$0.00		$0.00	0	$0.00
			$0.00	$0.00	0	$0.00		$0.00	0	$0.00
CONTINGENCY	1	LS	$50,000.00	$50,000.00	0	$0.00		$0.00	0	$0.00
SUBTOTAL FOR CONTINGENCY			$0.00	$50,000.00	0	$0.00		$0.00	0	$0.00
TOTAL FOR AMENDMENT THREE				$2,558,388.85		$2,234,360.13		$0.00		$2,234,360.13
TOTAL FOR AMENDMENT ONE AND TWO AND THREE				$5,717,405.45		$5,087,375.70		$0.00		$5,087,375.70
AMENDMENT FIVE										
AMENDMENT FIVE MOT	12	DAY	$2,163.77	$25,965.19	7	$15,146.39	0	$0.00	7	$15,146.39
AMENDMENT 5 PIME COAT AND SAN	27851	SY	$0.54	$15,011.69	25639	$15,011.69	0	$0.00	25639	$15,011.69
AMENDMENT 5 1"ASPHALT	27851	SY	$7.68	$213,895.68	25639	$196,907.52	0	$0.00	25639	$196,907.52
AMENDMENT 5 1 INCH ASPHALT MILL	27851	SY	$3.66	$102,018.21	22994	$102,018.21	0	$0.00	22994	$102,018.21
AMENDMENT 5 REGRADE EX. LIMER	27851	SY	$3.30	$91,908.30	0	$0.00		$0.00	0	$0.00
AMENDMENT 5 WATER TRUCK	12	DAY	$700.00	$8,400.00	2	$1,400.00	0	$0.00	2	$1,400.00
AMENDMENT 5 LEVELING COURSE $	1	ALLOW	$25,000.00	$25,000.00	0	$18,484.40		$0.00	0	$18,484.40
AMENDMENT 5 3/4 INCH OVERLAY RI	-27879	SY	$5.75	-$160,304.24	-27879	-$160,304.25	0	$0.00	-27879	-$160,304.25
TOTAL FOR AMENDMENT FIVE								$0.00		$188,663.96
							0	$0.00	0	$0.00
ADDITIONAL WORK REQUESTED BY OWNER							0	$0.00	0	$0.00
Elimination of dbl. water service to single services	1	LS	$48,951.00	$48,951.00			1	$48,951.00	1	$48,951.00

Tropical Shores storm drainage change	1	LS	$43,324.72	$43,324.72			1	$43,324.72	1	$43,324.72
Add Gulf Beach Storm Drainage	1	LS	$166,840.46	$166,840.46			1	$166,840.46	1	$166,840.46
add two storm inlets gulfside manate storm drainage	1	LS	$8,045.00	$8,045.00			1	$8,045.00	1	$8,045.00
Bay View & Virgina storm change	1	LS	$19,080.00	$19,080.00			1	$19,080.00	1	$19,080.00
Add 3 Manatee Grates	1	LS	$10,155.00	$10,155.00			1	$10,155.00	1	$10,155.00
Add Labor only install water meter	1	LS	$22,795.00	$22,795.00			1	$22,795.00	1	$22,795.00
Add ;abor only 3/4" check valve	1	LS	$23,500.00	$23,500.00			1	$23,500.00	1	$23,500.00
Add Watermain at Gulf Beach Road	1	LS	$32,362.90	$32,362.90			1	$32,362.90	1	$32,362.90
SUBTOTAL OF ADDED WORK							0	$375,054.08	0	$375,054.08
							0	$0.00	0	$0.00
TOTAL FOR AMENDMENT ONE,TWO,THREE,FIVE AND ADDITIONAL WORK				$5,717,405.45		$5,276,039.66		$375,054.08		$5,651,093.74

SCOPE OF WORK FOR THIS GMP (AMENDMENT SEVEN)

This GMP does not include all the work that is proposed for the Design-Build Services for Phase 1 Water Distribution System Improvements. The scope of work for amendment seven is to provide a reconciling change order and additional work for Neighborhood Streets, Bay Beach Lane, and Laguna Shores.

TASK INDEX

TASK 1.O Neighborhood Streets

Additional storm drainage and water main scope of work was added by Fort Myers Beach for the Neighborhood Streets.

	ADDITIONAL WORK TO ADDED BY CHANGE ORDER	
1	Elimination of double water services to all single water services	$48,951.00
2	TROPICAL SHORES STORM DRAINAGE CHANGE	$43,324.72
3	ADD GULF BEACH STORM DRAINAGE	$166,840.46
4	ADD TWO STORM INLETS GULF SIDE MANATEE STORM DRAINAGE	$8,045.00
5	BAY VIEW VIRGINA STORM CHANGE	$19,080.00
6	ADD 3 MANATEE GRATES	$10,155.00
7	ADD LABOR ONLY INSTALL WATER METER (OWNER PROVIDING MATERIAL) 235EA@$97.00	$22,795.00
8	ADD LABOR ONLY INSTALL 3/4 INCH CHECK VAVLE (OWNER PROVIDING MATERIAL) 235 EA @ $100.00	$23,500.00
9	ADD WATERMAIN GULF BEACH ROAD	$32,362.90
	TOTAL ADD TO CONTRACT	**$375,054.08**
	CREDIT FROM RECONCILING FINAL PAY ESTIMATE	**-$763,260.62**
	TOTAL CREDIT TO CONTRACT	**-$388,206.54**
	CREDIT APPLICABLE TO LEE COUNTY	**$169,882.00**
	CREDIT FOR TOWN OF FORT MYERS BEACH WORK	**-$218,324.54**