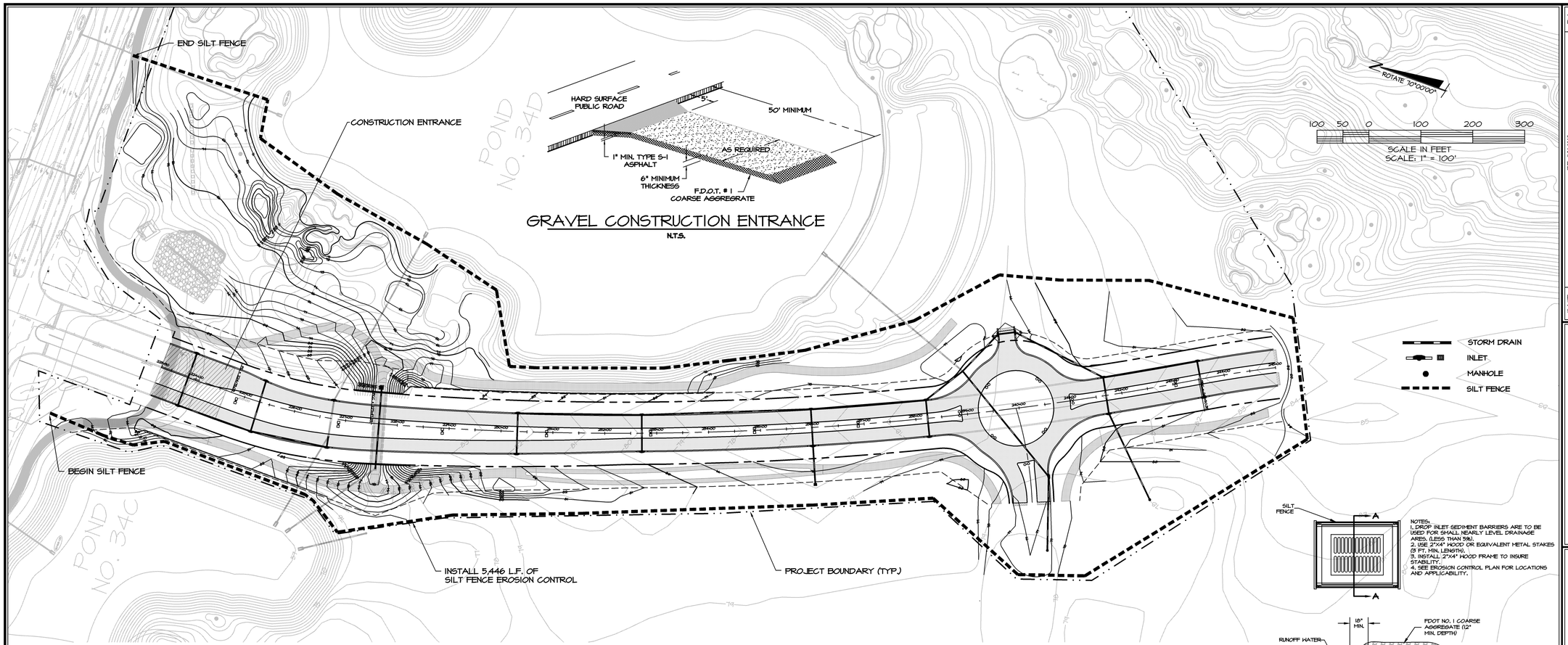
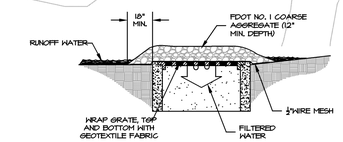
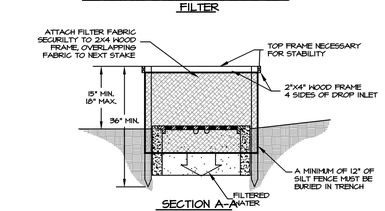


NOTES:
1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL NEARLY LEVEL DRAINAGE AREA. (LESS THAN 5%).
2. USE 2"X4" HOOD OR EQUIVALENT METAL STAKES (3 FT. MIN. LENGTH).
3. INSTALL 2"X4" HOOD FRAME TO INSURE STABILITY.
4. SEE EROSION CONTROL PLAN FOR LOCATIONS AND APPLICABILITY.



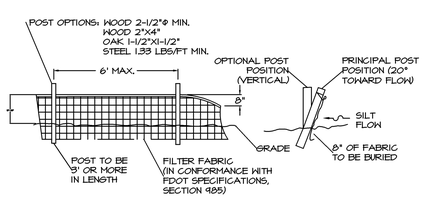
OPTION 2 GRAVEL AND WIRE MESH FILTER



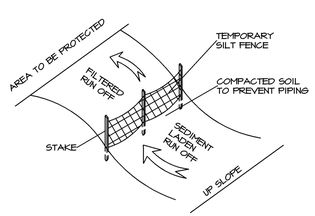
SECTION A-A
OPTION 1 SILT FENCE BARRIER

DROP INLET SEDIMENT FILTER DETAIL

N.T.S.



ELEVATION SECTION



SILT FENCE AND EROSION CONTROL DETAIL

1. THE FOLLOWING LIST REPRESENTS A BASIC EROSION AND SEDIMENT CONTROL PROGRAM WHICH IS TO BE IMPLEMENTED TO HELP PREVENT OFF SITE SEDIMENTATION DURING AND AFTER CONSTRUCTION OF THE PROJECT.

2. TEMPORARY EROSION CONTROL TO BE UTILIZED DURING CONSTRUCTION AT AREAS DESIGNATED BY THE ENGINEER OR AREAS ON SITE WHERE UNSTABILIZED GRADES MAY CAUSE EROSION PROBLEMS. EROSION CONTROL MAY BE REMOVED AFTER UPSLOPE AREA HAS BEEN STABILIZED BY SOD, OR COMPACTED AS DETERMINED BY THE OWNER.

3. PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AT THE EARLIEST PRACTICAL TIME CONSISTENT WITH GOOD CONSTRUCTION PRACTICES. ONE OF THE FIRST CONSTRUCTION ACTIVITIES SHOULD BE THE PLACEMENT OF PERMANENT AND TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AROUND THE PERIMETER OF THE PROJECT OR THE INITIAL WORK AREA TO PROTECT THE PROJECT, ADJACENT PROPERTIES AND WATER RESOURCES.

4. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMICAL, EFFECTIVE AND CONTINUOUS CONTROL THROUGHOUT THE CONSTRUCTION PHASE. TEMPORARY MEASURES SHALL NOT BE CONSTRUCTED FOR EXPENCNCY IN LIEU OF PERMANENT MEASURES.

5. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE ADEQUATELY MAINTAINED TO PERFORM THEIR INTENDED FUNCTION DURING CONSTRUCTION OF THE PROJECT.

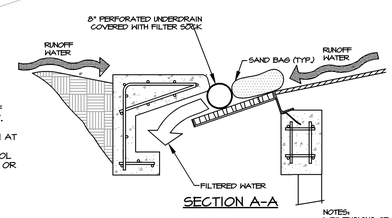
6. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BARRIERS SHALL BE ACCOMPLISHED PROMPTLY.

7. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER.

8. MATERIAL FROM SEDIMENT TRAPS SHALL NOT BE STOCKPILED OR DISPOSED OF IN A MANNER WHICH MAKES THEM READILY SUSCEPTIBLE TO BEING WASHED INTO ANY WATERCOURSE BY RUNOFF OR HIGH WATER.

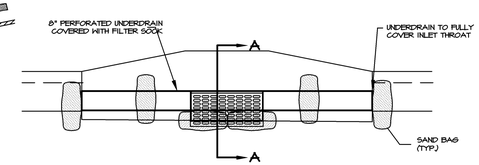
9. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIERS ARE NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

10. SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF).

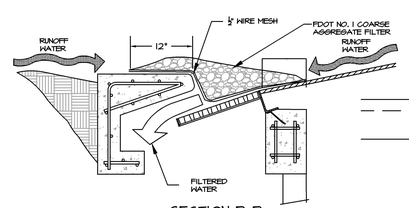


SECTION A-A

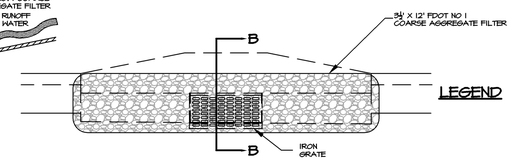
NOTES:
1. DIMENSIONS OF SEDIMENT FILTER DETAILS MAY BE ADJUSTED FOR TYPE "4" CURB INLET TOPS.
2. PRE-MANUFACTURED INLET SOCK MAY BE SUBSTITUTED IF APPROVED BY THE ENGINEER.
3. SEE EROSION CONTROL PLAN FOR LOCATION AND APPLICABILITY.



OPTION 1 UNDERDRAIN FILTER



SECTION B-B



OPTION 2 GRAVEL AND WIRE MESH

LEGEND

CURB INLET SEDIMENT FILTER DETAIL

N.T.S.

BRETT TOBIAS, P.E.
REGISTERED ENGINEER NO. 69017
STATE OF FLORIDA

JOHN R. GRANT
VICE PRESIDENT
THE VILLAGES OF LAKE-SUMTER, INC.

DATE	REVISIONS	BY

FARNER BARLEY AND ASSOCIATES, INC.
ENGINEERS ▲ SURVEYORS ▲ PLANNERS
Certificate of Authorization Number: 4709
4450 N.E. 83rd Road ○ Wildwood, Florida 34785 ○ (352) 748-3128

The Villages

VILLAGES OF SUMTER
MORSE BLVD.
PHASE 5

EROSION CONTROL PLAN

DATE 02-15-10
DRAWN BY MJT
CHKD BY WLC
FILE NAME EC1
JOB NO. 921141.0457

ENGINEER:
DATE:

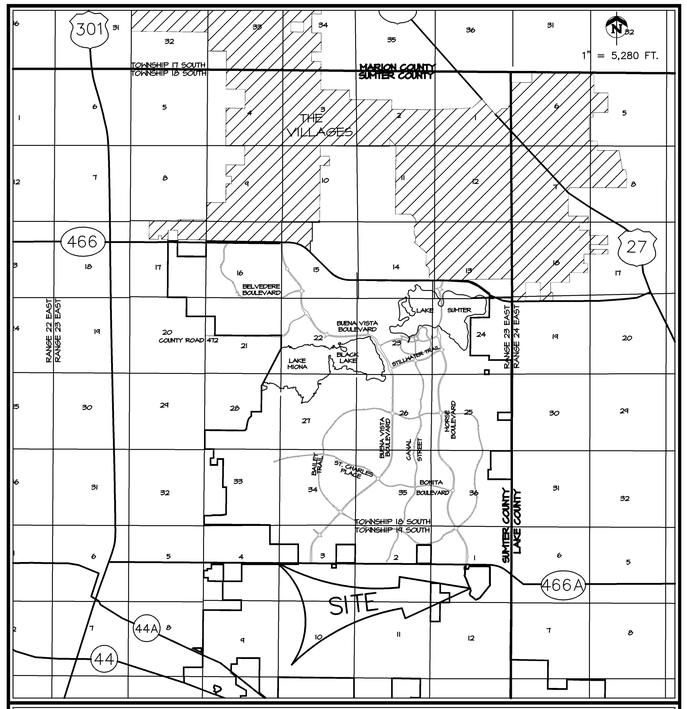
SHT. E-1 OF E-1

The Villages®

IMPROVEMENT PLANS OF VILLAGES OF SUMTER MORSE BLVD. PHASE 5

LEGAL DESCRIPTION
THAT LAND LYING IN SECTION 1, TOWNSHIP 18 SOUTH, RANGE 23 EAST, SUMTER COUNTY, FLORIDA, DESCRIBED AS FOLLOWS:

FROM THE SOUTHWEST CORNER OF THE SOUTHEAST 1/4 OF SAID SECTION 1 RUN S89°47'20"E, ALONG THE SOUTH LINE THEREOF A DISTANCE OF 525.51 FEET; THENCE DEPARTING SAID SOUTH LINE, N00°12'40"E, 184.18 FEET TO THE POINT OF BEGINNING; THENCE N52°40'22"W, 500.43 FEET; THENCE N18°57'58"W, 145.05 FEET; THENCE N23°06'40"E, 219.03 FEET; THENCE N23°12'45"W, 411.58 FEET; THENCE N20°57'32"W, 531.37 FEET; THENCE N28°25'30"W, 212.76 FEET; THENCE N33°48'43"E, 82.73 FEET; THENCE N00°06'19"E, 303.46 FEET; THENCE N32°13'42"W, 63.98 FEET; THENCE N01°00'44"W, 182.65 FEET; THENCE N68°51'41"E, 97.56 FEET; THENCE S00°18'40"W, 187.40 FEET; THENCE S89°27'54"E, 173.86 FEET; THENCE N17°13'14"E, 128.06 FEET; THENCE N38°07'25"E, 93.99 FEET; THENCE N82°35'53"E, 58.47 FEET; THENCE S00°33'46"W, 16.23 FEET; THENCE S89°26'14"E, 1,352.67 FEET TO THE POINT OF CURVATURE OF A CURVE CONCAVE SOUTHERLY AND HAVING A RADIUS OF 1,785.08 FEET; THENCE EASTERLY ALONG THE ARC THEREOF THROUGH A CENTRAL ANGLE OF 00°09'10", A DISTANCE OF 4.76 FEET; THENCE S00°10'44"E, 1,317.04 FEET; THENCE S38°48'13"W, 1,128.22 FEET; THENCE S63°01'34"W, 301.44 FEET TO THE POINT OF BEGINNING.
CONTAINING 71.83 ACRES, MORE OR LESS.



VICINITY MAP

SECTION 1
TOWNSHIP 18 SOUTH; RANGE 23 EAST
SUMTER COUNTY, FLORIDA
THIS DEVELOPMENT CONTAINS
A TOTAL OF 0.41 MILES OF ROAD AND 71.83 ACRES.
DESIGN SPEED 45 M.P.H. (MORSE BLVD.)

INDEX OF SHEETS

		SUBMITTAL DATE	LATEST REVISION DATE
1.	TITLE SHEET	3-8-10	4-12-10
2.	MASTER DEVELOPMENT PLAN	3-8-10	4-12-10
3.	MASTER PLAN	3-8-10	4-12-10
4.	PLAN & PROFILE	3-8-10	4-12-10
5.	PLAN & PROFILE	3-8-10	4-12-10
6.	INTERSECTION DETAIL	3-8-10	4-12-10
~~7.~~	~~DRY UTILITIES PLAN~~		
~~8.~~	~~DRY UTILITIES PLAN~~		
9.	TUNNEL #24 DETAIL (WEST FACE)	3-8-10	3-8-10
10.	TUNNEL #24 DETAIL (EAST FACE)	3-8-10	3-8-10
S-1 - S-5	SIGNAGE AND MARKING PLANS	3-8-10	3-8-10
E-1	EROSION CONTROL PLAN	3-8-10	3-8-10

ALL PUBLIC AND PRIVATE UTILITIES APPURTENANCE AND INFRASTRUCTURE, INCLUDING ANY DEVELOPER, COMMUNITY DEVELOPMENT DISTRICT OR PRIVATE INDIVIDUAL IRRIGATION SYSTEM(S) THAT MAY BE INSTALLED WITHIN THE DEDICATED PUBLIC RIGHT-OF-WAY AT THE TIME OF CONSTRUCTION OR THEREAFTER ARE SUBJECT TO THE FOLLOWING CONDITIONS:

- MAINTENANCE IS THE RESPONSIBILITY OF THE OWNER.
- MUST BE CONSISTENT WITH THE TERMS AND CONDITIONS SET FORTH BY ANY APPLICABLE LOCAL, STATE OR FEDERAL PERMITTING AGENCY.
- MUST BE KEPT IN GOOD WORKING ORDER IN ACCORDANCE WITH APPLICABLE INDUSTRY STANDARDS.
- WILL BE RELOCATED BY THE OWNER WHEN REQUESTED TO DO SO BY THE COUNTY, AT NO COST TO THE COUNTY PROVIDED SUCH REQUEST IS PURSUANT TO THE COUNTY WIDENING SUCH ROADWAY OR REQUIRED BY THE COUNTY FOR PUBLIC HEALTH AND SAFETY CONCERNS.

THE STANDARD DETAILS FOR THIS PROJECT SHALL BE FOUND IN "THE VILLAGES CONSTRUCTION DETAILS MANUAL, DATED MAY 1, 2009", PREPARED BY GRANT & DZURO, OR AS AMENDED BY THESE PLANS.

OWNER/DEVELOPER:
THE VILLAGES OF LAKE-SUMTER, INC.
990 OLD MILL RUN
THE VILLAGES, FL 32162
JOHN R. GRANT, VICE PRESIDENT

ENGINEER:
FARNER, BARLEY AND ASSOCIATES, INC.
4450 N.E. 83rd ROAD
WILDWOOD, FLORIDA 34785
LEE CLYMER, P.E.
FLA. LIC. NO. 69780

NOTE: ELEVATIONS SHOWN WERE OBTAINED BY AERIAL PHOTO AND ARE BASED ON THE VILLAGES DATUM. TO OBTAIN N.G.V.D. ADD 3.46 FEET.

FARNER BARLEY AND ASSOCIATES, INC.
▲ ENGINEERS ▲ SURVEYORS ▲ PLANNERS
Certificate of Authorization Number: 4709
4450 N.E. 83rd Road ○ Wildwood, Florida 34785 ○ (352) 748-3126

CR 466A

B-34C

A-A

B-B

B-34D

SHEET 4

SHEET 5

STATION: 233+00

MORSE BLVD.

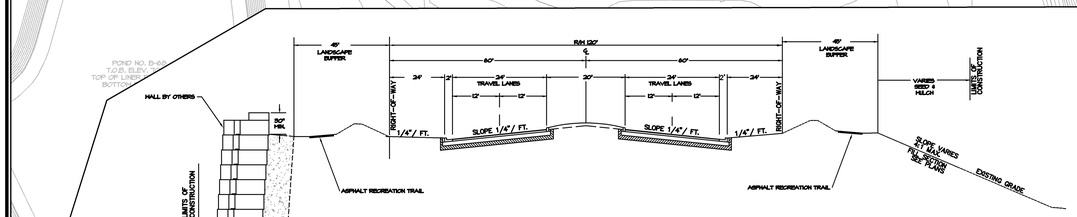
DRAINAGE BASIN LINE (TYP.)

PROJECT BOUNDARY (TYP.)

N

200 100 0 200 400 600

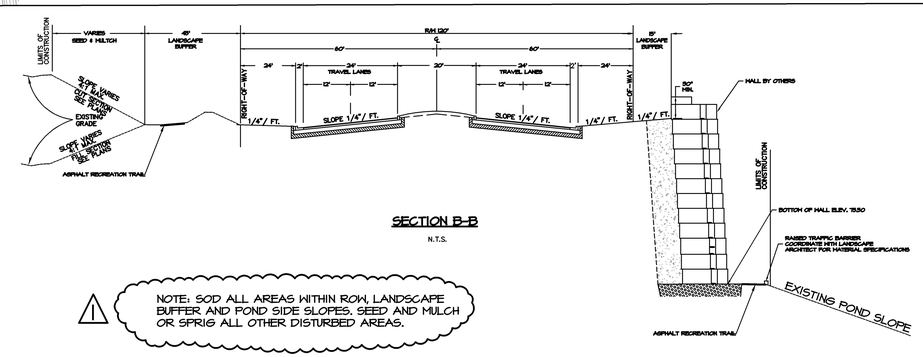
SCALE IN FEET
1"=200'



SECTION A-A

N.T.S.

NOTE: SOD ALL AREAS WITHIN ROW, LANDSCAPE BUFFER AND POND SIDE SLOPES. SEED AND MULCH OR SPRIG ALL OTHER DISTURBED AREAS.



SECTION B-B

N.T.S.

NOTE: SOD ALL AREAS WITHIN ROW, LANDSCAPE BUFFER AND POND SIDE SLOPES. SEED AND MULCH OR SPRIG ALL OTHER DISTURBED AREAS.

DATE	REVISIONS	BY
04-12-10	1 REVISED PER SUMTER COUNTY COMMENTS DATED APRIL 1, 2010	MJT

FARNER BARLEY AND ASSOCIATES, INC.
ENGINEERS ▲ SURVEYORS ▲ PLANNERS
Certificate of Authorization Number: 4709
4450 N.E. 83rd Road o Wildwood, Florida 34785 o (352) 748-3128

The Villages

VILLAGES OF SUMTER
MORSE BLVD.
PHASE 5

MASTER DEVELOPMENT PLAN

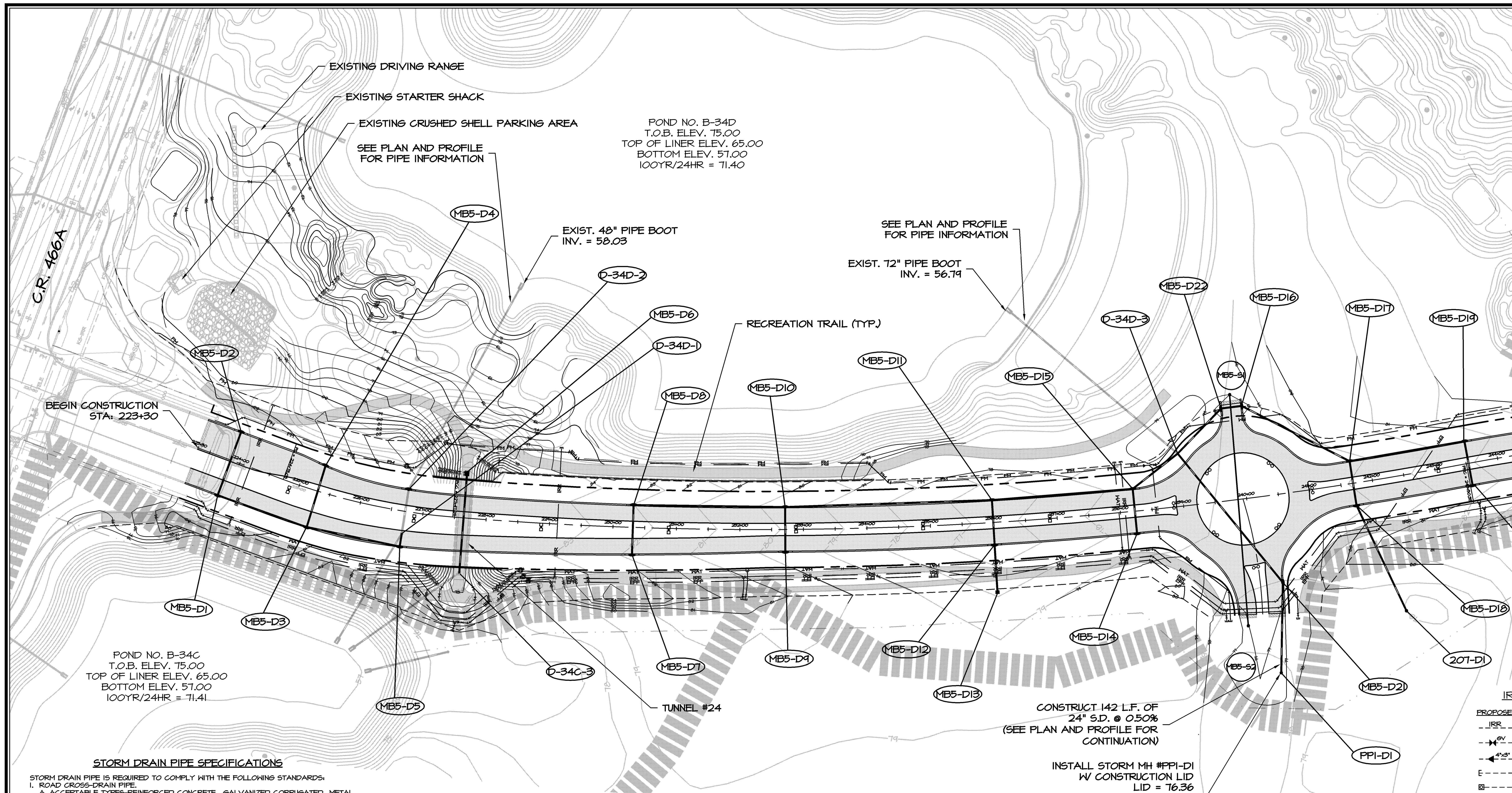
DATE 02-15-10
DRAWN BY MJT
CHKD BY WLC
FILE NAME MASTER
JOB NO. 921141.0457

ENGINEER:

DATE:

SHT. 2 OF 10

S:\SUMTER\SITEPLANS\MORSE BLVD PHASE V\CIVIL\CONSTRUCTION\002-MBV PH V- MDEV.dwg, 4/13/2010 8:57:15 PM, KIP3100.pc3, 1:200



STORM DRAIN PIPE SPECIFICATIONS

STORM DRAIN PIPE IS REQUIRED TO COMPLY WITH THE FOLLOWING STANDARDS:

1. ROAD CROSS-DRAIN PIPE.
   A. ACCEPTABLE TYPES-REINFORCED CONCRETE, GALVANIZED CORRUGATED METAL, CORRUGATED ALUMINUM, HDPE OR OTHER FDOT APPROVED MATERIALS. PVC SHALL BE AS APPROVED IN THE 2004 EDITION OF THE FDOT STANDARD SPECIFICATIONS
   B. MINIMUM SIZE--EIGHTEEN (18) INCHES DIAMETER OR EQUAL.
   C. ENDWALL, INLET MANHOLE OR MITERED END SECTION WITH CONCRETE COLLAR REQUIRED AT EACH END.
2. ROADSIDE DRAIN PIPE:
   A. ACCEPTABLE TYPES--REINFORCED CONCRETE, GALVANIZED CORRUGATED METAL, CORRUGATED ALUMINUM, HDPE OR OTHER FDOT APPROVED MATERIALS. PVC SHALL BE AS APPROVED IN THE 2010 EDITION OF THE FDOT STANDARD SPECIFICATIONS
   B. MINIMUM SIZE--FIFTEEN (15) INCHES DIAMETER OR EQUAL.
3. STORM SEWER PIPE:
   A. ACCEPTABLE TYPES--REINFORCED CONCRETE, GALVANIZED CORRUGATED METAL, CORRUGATED ALUMINUM, HDPE OR OTHER FDOT APPROVED MATERIALS. PVC SHALL BE AS APPROVED IN THE 2010 EDITION OF THE FDOT STANDARD SPECIFICATIONS.
   B. MINIMUM SIZE--EIGHTEEN (18) INCHES OR EQUAL.
   C. INLET OR MANHOLE REQUIRED AT EACH CHANGE OF ALIGNMENT OR GRADE.

CLEARANCE REQUIREMENTS
POTABLE WATER/ SANITARY, STORM SEWER
RECLAIMED WATER AND NON-POTABLE IRRIGATION PIPING

VERTICAL SEPARATION: BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAIN, RECLAIMED WATER PIPELINES.

1. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY-OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES, AND PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

2. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

3. AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS 1 AND 2 ABOVE, 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, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORMSEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY-OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

4. SEPARATION BETWEEN WATER MAINS AND SANITARY OR STORM SEWER MANHOLES.
   A. NO WATER MAIN SHALL PASS THROUGH, OR COME IN CONTACT WITH, ANY PART OF A SANITARY MANHOLE.
   B. WATER MAINS SHALL NOT BE CONSTRUCTED OR ALTERED TO PASS THROUGH, OR COME INTO CONTACT WITH ANY PART OF A STORM SEWER MANHOLE OR INLET STRUCTURE.

5. 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:
   A. 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
   B. 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 INCHEST THICK FOR THE OTHER PIPELINE IF IT IS NEW AND IS CONVEYING WASTEWATER OR RECLAIMED WATER.

HORIZONTAL SEPARATION: BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAIN, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.

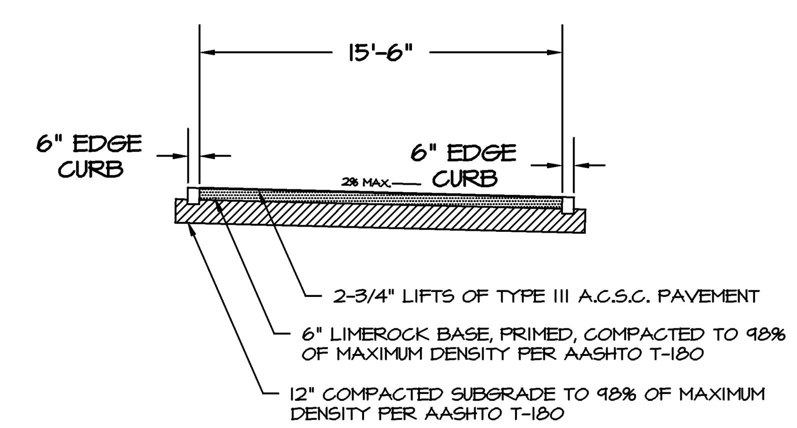
1. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATERMAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

2. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.

3. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PARTIII 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.

4. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0065(2), F.S., AND RULE 64E-6002, F.A.C.

5. 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 OTHER PIPELINE:
   A. 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 GRAVITY-OR VACUUM-TYPE PIPELINE;
   B. USE WELDED, FUSED OR OTHERWISE RESTRAINED JOINTS FOR EITHER WATER MAIN OR THE OTHER PIPELINE; OR
   C. USE OF WATERTIGHT CASING PIPE OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE.



ASPHALT RECREATION TRAIL DETAIL
N.T.S.

IRRIGATION WATER LEGEND

PROPOSED		EXISTING
IRR	IRRIGATION WATER MAIN	IRR
GV	VALVE (TYPE) GV=GATE VALVE BV=BUTTERFLY VALVE PV=PLUG VALVE CV=CHECK VALVE	GV
4"x3"	REDUCER (SIZE)	4"x3"
	CAP	
	BLOW-OFF VALVE	
	TEE	
45°	BEND (ANGLE)	45°
	FIRE HYDRANT ASSEMBLY	

POTABLE WATER LEGEND

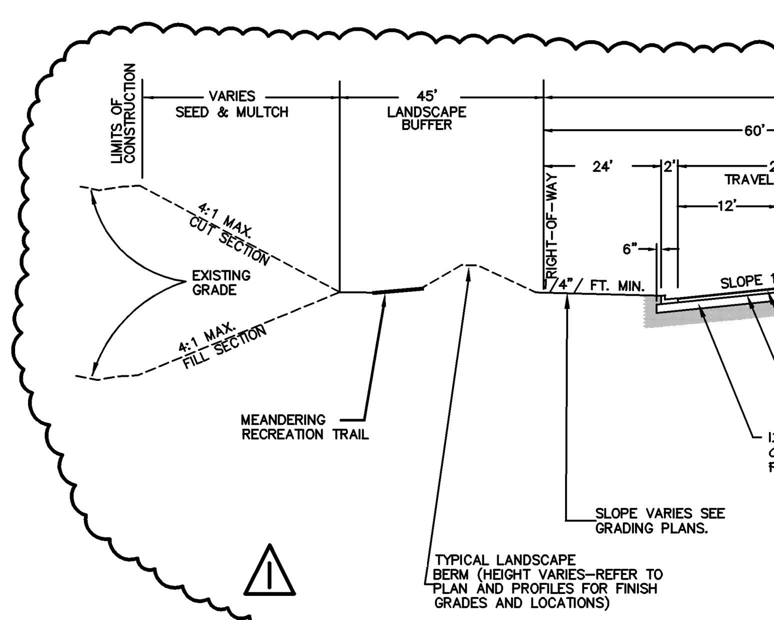
PROPOSED		EXISTING
PW	POTABLE WATER MAIN	PW
GV	VALVE (TYPE) GV=GATE VALVE BV=BUTTERFLY VALVE PV=PLUG VALVE CV=CHECK VALVE	GV
4"x3"	REDUCER (SIZE)	4"x3"
	CAP	
	BLOW-OFF VALVE	
	TEE	
45°	BEND (ANGLE)	45°

STORM DRAIN LEGEND

PROPOSED		EXISTING
SD	STORM DRAIN	SD
	INLET	
	MANHOLE	
76	CONTOUR	76
	FLOW ARROW	
	SILT FENCE	
D-CH5	STRUCTURE NUMBER	D-CH5

SANITARY SEWER LEGEND

PROPOSED		EXISTING
SS	SANITARY SEWER	SS
	MANHOLE	
S TGR-02	STRUCTURE NUMBER	S TGR-02



MORSE BOULEVARD
TYPICAL DIVIDED ROADWAY SECTION
N.T.S.

DATE	REVISIONS	BY
04-12-10	⚠1 REVISED PER SUMTER COUNTY COMMENTS DATED APRIL 1, 2010	MJT

FARNER BARLEY AND ASSOCIATES, INC.
▲ ENGINEERS ▲ SURVEYORS ▲ PLANNERS
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The Villages

VILLAGES OF SUMTER
MORSE BLVD.
PHASE 5

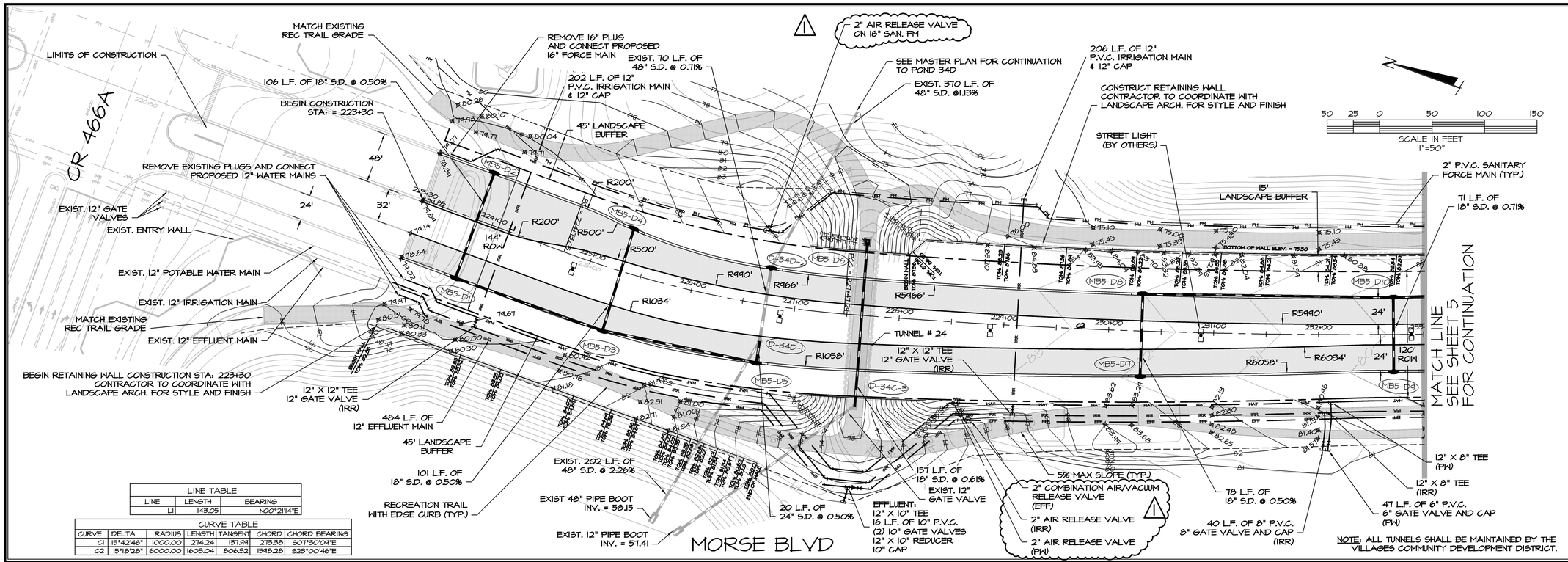
MASTER PLAN

DATE 02-15-10
DRAWN BY MJT
CHKD BY WLC
FILE NAME MP-1
JOB NO. 921141.0457

ENGINEER:
DATE:

SHT. 3 OF 10

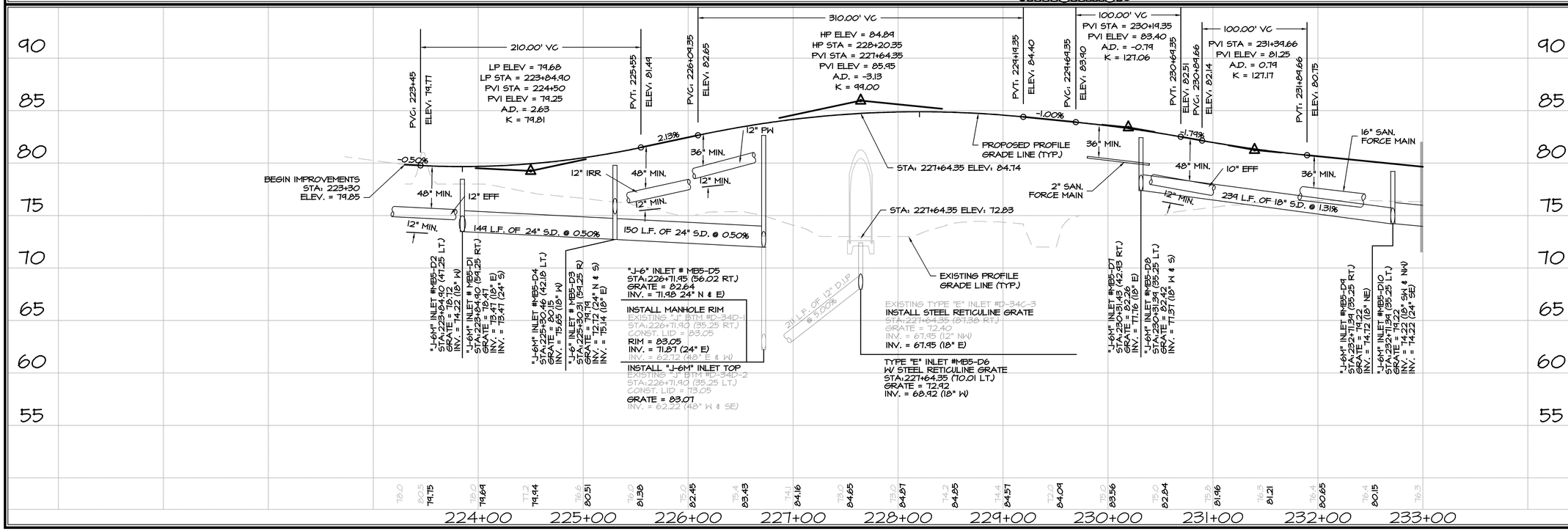
S:\SUMTER\SITEPLANS\MORSE BLVD PHASE V\CIVIL\CONSTRUCTION\003-MBV PH V- MP1.dwg, 4/14/2010 1:38:40 AM, KIP3100.pc3, 1:100



NOTE: ALL TUNNELS SHALL BE MAINTAINED BY THE VILLAGES COMMUNITY DEVELOPMENT DISTRICT.

LINE TABLE		
LINE	LENGTH	BEARING
L1	143.05	N00°21'14"E

CURVE TABLE						
CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD	CHORD BEARING
C1	15°42'46"	1000.00	274.24	137.99	273.38	S07°30'09"E
C2	15°18'28"	6000.00	1603.04	806.32	1598.28	S23°00'46"E



DATE	REVISIONS	BY
04-12-10	REVISED PER SUMTER COUNTY COMMENTS DATED APRIL 1, 2010	MJT

FARNER BARLEY AND ASSOCIATES, INC.
▲ ENGINEERS ▲ SURVEYORS ▲ PLANNERS
Certificate of Authorization Number: 4709
4450 N.E. 83rd Road O Wildwood, Florida 34785 O (352) 748-3126

The Villages

VILLAGES OF SUMTER
MORSE BLVD.
PHASE 5

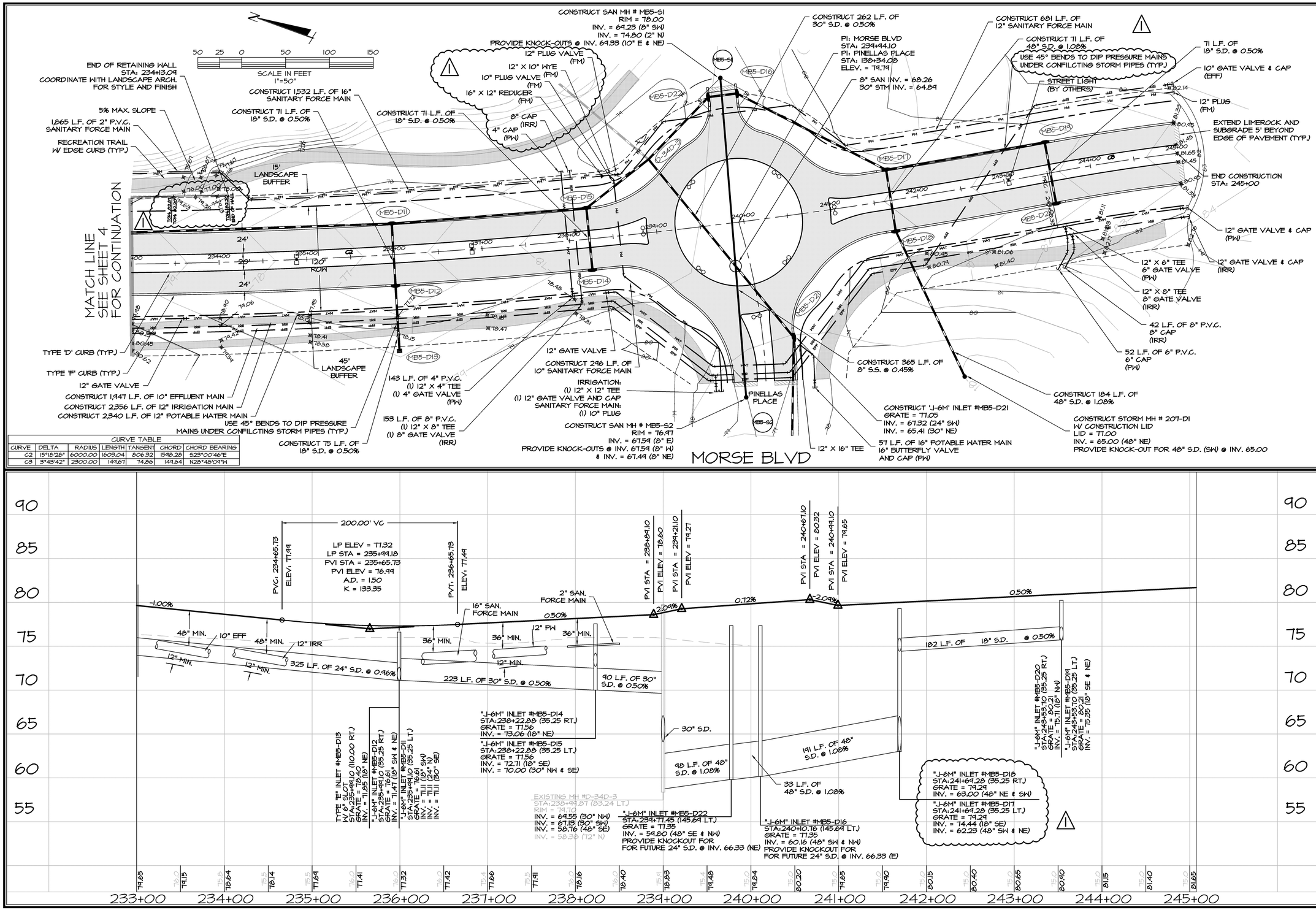
PLAN & PROFILE MORSE BLVD.

DATE 01-15-10
DRAWN BY MJT
CHKD BY WLC
FILE NAME PP-1
JOB NO. 92141.0457

ENGINEER:
DATE:

SHT. 4 OF 10

S:\SUMTER\SITEPLANS\MORSE BLVD PHASE V\CIVIL\CONSTRUCTION\004-5-MBV PH V- PP-1.dwg, 4/13/2010 11:51:49 PM, KIP3100.pc3, 1:1



CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD	CHORD BEARING
C2	15°18'28"	6000.00	1603.04	806.32	1598.28	S23°00'46"E
C3	3°48'42"	2300.00	149.67	74.86	149.64	N28°48'09"W

DATE	REVISIONS	BY
04-12-10	1 REVISED PER SUMTER COUNTY COMMENTS DATED APRIL 1, 2010	MJT

FARNER BARLEY AND ASSOCIATES, INC.
▲ ENGINEERS ▲ SURVEYORS ▲ PLANNERS
Certificate of Authorization Number: 4709
4450 N.E. 83rd Road O Wildwood, Florida 34785 O (352) 748-3126

The Villages

VILLAGES OF SUMTER
MORSE BLVD.
PHASE 5

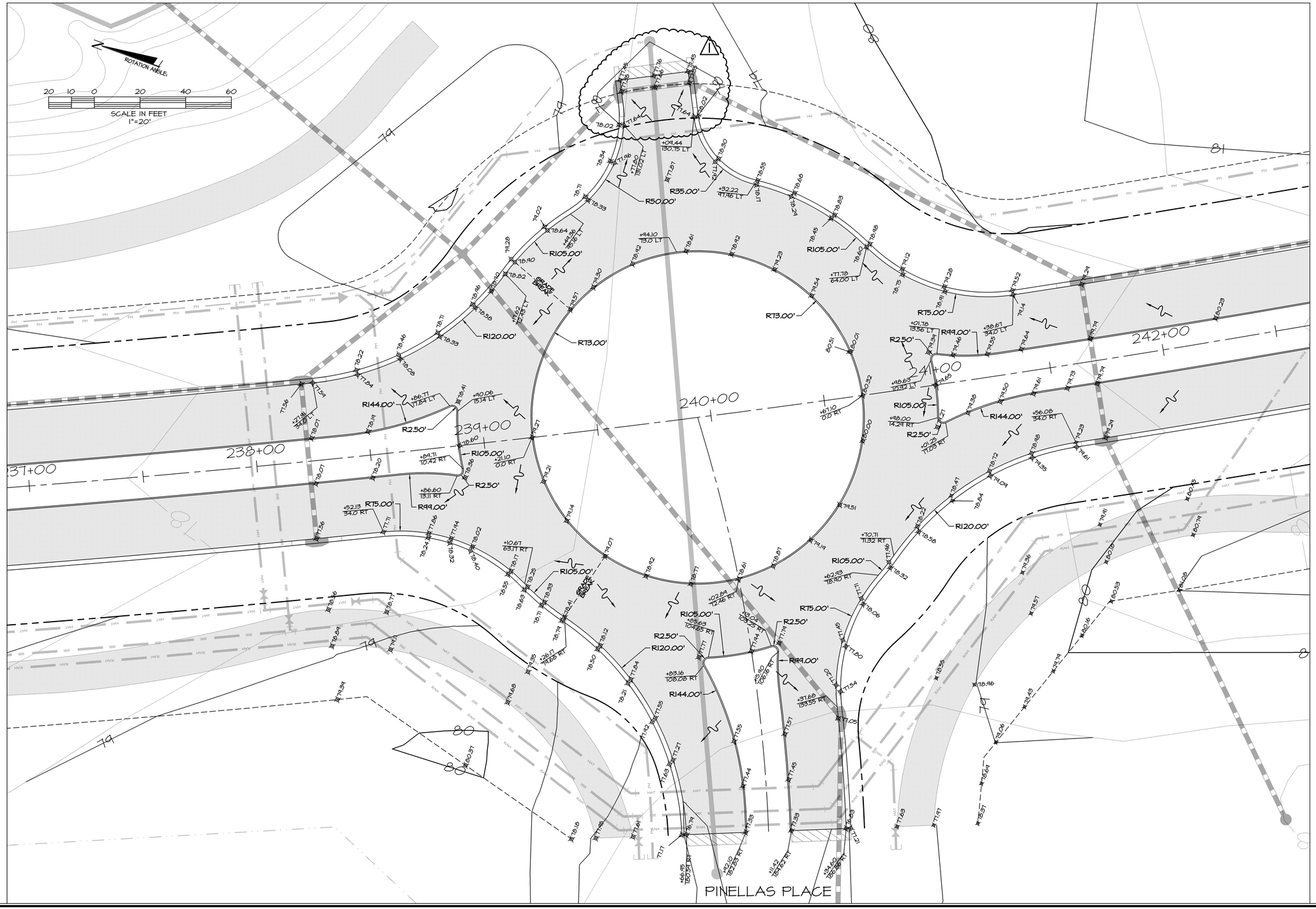
PLAN & PROFILE MORSE BLVD.

DATE 01-15-10
DRAWN BY MJT
CHKD BY WLC
FILE NAME PP-1
JOB NO. 92.141.0457

ENGINEER:
DATE:

SHT. 5 OF 10

S:\SUMTER\SITEPLANS\MORSE BLVD PHASE V\CIVIL\CONSTRUCTION\004-5-MBV PH V- PP-1.dwg, 4/13/2010 10:59:40 PM, KIP3100.pc3, 1:1



DATE		BY
04-12-10	1 REVISED PER SUMTER COUNTY COMMENTS DATED APRIL 1, 2010	MJT

REVISIONS

FARNER BARLEY AND ASSOCIATES, INC.
▲ ENGINEERS ▲ SURVEYORS ▲ PLANNERS
Certificate of Authorization Number: 4709
4400 N.E. 83rd Road ○ Wildwood, Florida 34785 ○ (352) 748-3128

The Villages

VILLAGES OF SUMTER
MORSE BLVD.
PHASE 5

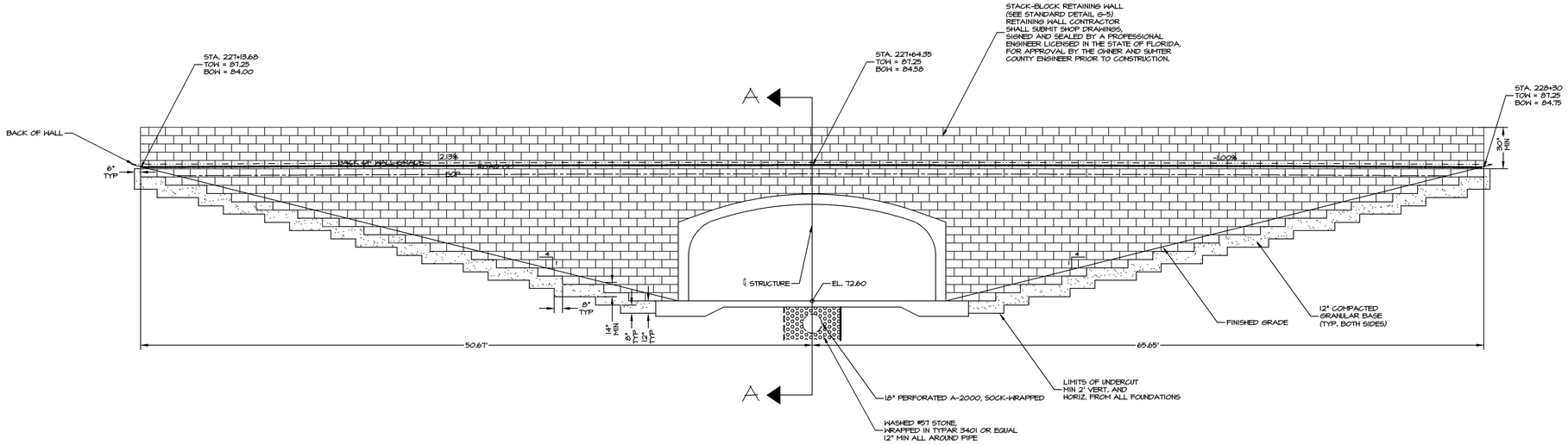
MORSE BLVD.
PINELLAS PLACE INTERSECTION

DATE 02-10-10
DRAWN BY MJT
CHK'D BY WLC
FILE NAME MBV5-INT
JOB NO. 921141.0457

ENGINEER:
DATE:

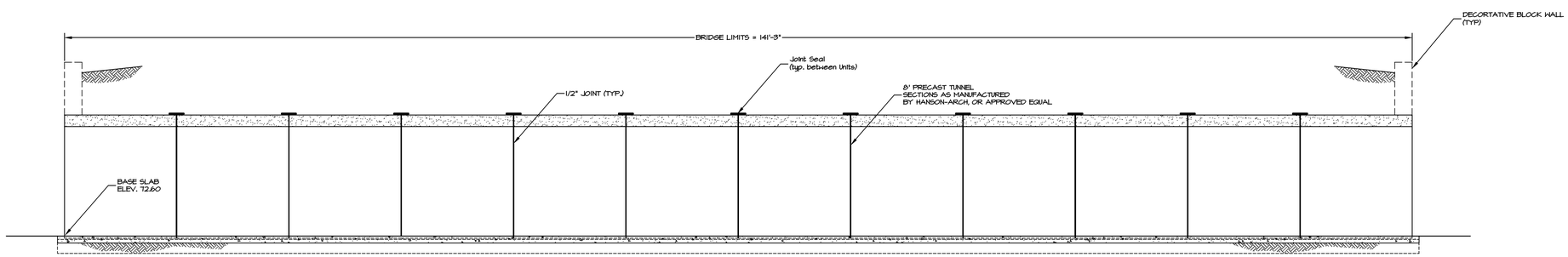
SHT. 6 OF 10

S:\SUMTER\SITEPLANS\MORSE BLVD PHASE V\CIVIL\CONSTRUCTION\006-MBV PHV - INT DETAIL.dwg, 4/13/2010 8:59:16 PM, KIP3100.pc3, 1:1



WEST FACE TUNNEL #24 ELEVATION

N.T.S.



SECTION A-A

N.T.S.

NOTE:
TUNNEL SUPPLIER SHALL PROVIDE
TUNNEL DESIGN DRAWINGS SIGNED
AND SEALED BY A STRUCTURAL ENGINEER,
LICENSED IN THE STATE OF FLORIDA FOR
APPROVAL BY OWNER AND THE SUMTER COUNTY
ENGINEER PRIOR TO COMMENCING CONSTRUCTION.

DATE	REVISIONS	BY

FARNER BARLEY AND ASSOCIATES, INC.
ENGINEERS ▲ SURVEYORS ▲ PLANNERS
Certificate of Authorization Number: 4709
4450 N.E. 83rd Road ○ Wildwood, Florida 34785 ○ (352) 748-3128

The Villages

VILLAGES OF SUMTER
MORSE BLVD.
PHASE 5

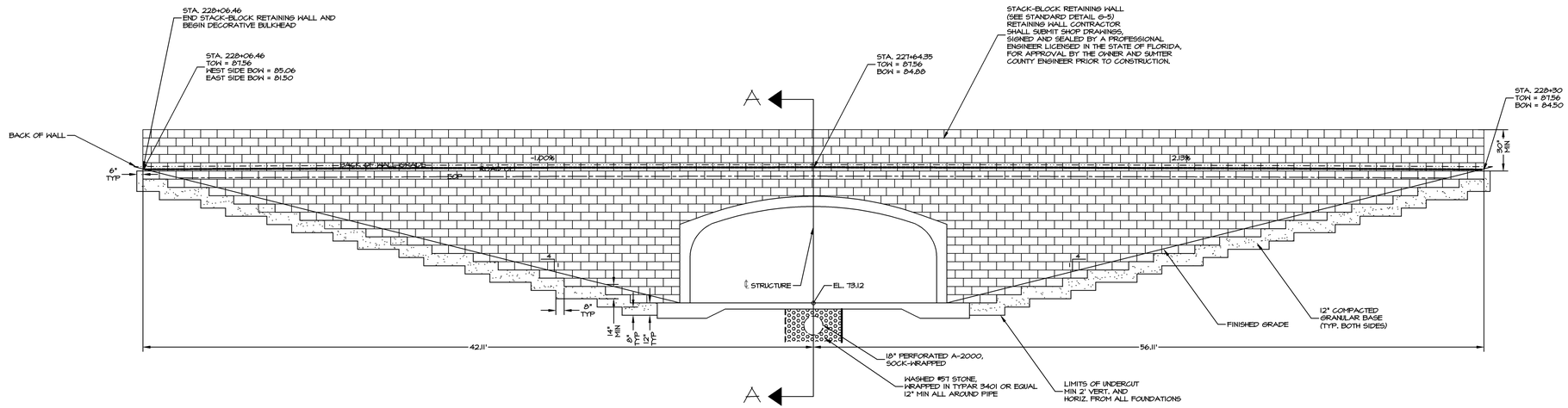
TUNNEL #24
DETAILS

DATE 02-15-10
DRAWN BY MJT
CHKD BY WLC
FILE NAME TUNNEL24
JOB NO. 921141.0457

ENGINEER:
DATE:

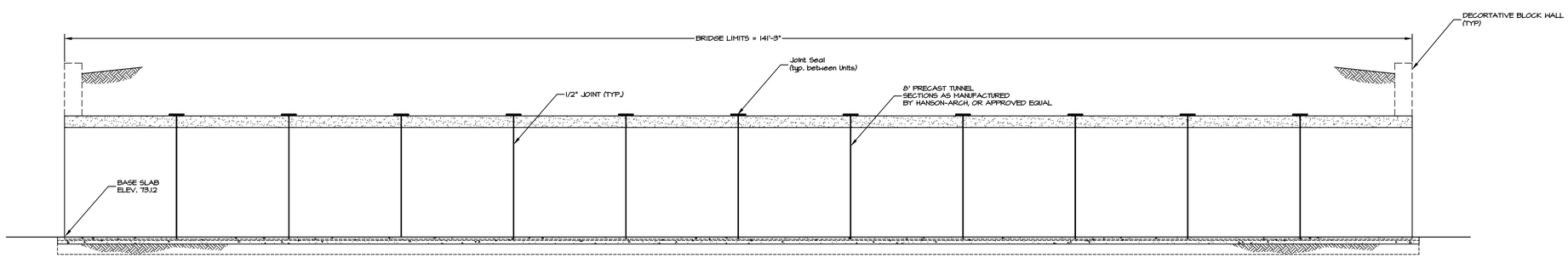
SHT. 9 OF 10

S:\SUMTER\SITEPLANS\MORSE BLVD PHASE V\CIVIL\CONSTRUCTION\009-MBV PH V - TUNNEL#24.dwg, 4/13/2010 10:50:21 PM, KIP3100.pc3, 1:5



EAST FACE TUNNEL #24 ELEVATION

N.T.S.



SECTION A-A

N.T.S.

NOTE:
TUNNEL SUPPLIER SHALL PROVIDE
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LICENSED IN THE STATE OF FLORIDA FOR
APPROVAL BY OWNER AND THE SUMTER COUNTY
ENGINEER PRIOR TO COMMENCING CONSTRUCTION.

DATE	REVISIONS	BY

FARNER BARLEY AND ASSOCIATES, INC.
▲ ENGINEERS ▲ SURVEYORS ▲ PLANNERS
Certificate of Authorization Number: 4709
4450 N.E. 83rd Road ○ Wildwood, Florida 34785 ○ (352) 748-3128

The Villages

VILLAGES OF SUMTER
MORSE BLVD.
PHASE 5

TUNNEL #24
EAST FACE - DETAIL

DATE 02-15-10
DRAWN BY MJT
CHKD BY WLG
FILE NAME TUNNEL24
JOB NO. 921141.0457

ENGINEER: _____
DATE: _____

SHT. 10 OF 10

S:\SUMTER\SITEPLANS\MORSE BLVD PHASE V\CIVIL\CONSTRUCTION\010-MBV PH V - TUNNEL#24 (EAST).dwg, 4/13/2010 10:51:07 PM, KIP3100.pc3, 1:5