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4030 W. Boy Scout Blvd., Suite 700 Tampa, Florida 33607 Tel. (813) 282-7275 Fax (813) 282-9767 WWW.ATKINS.COM FBPE Certificate of Authorization No. 24

CLIENT



Y	PROJECT NORTH GOLDEN GATE ESTATES FLOWWAY RESTORATION PROJECT ALTERNATIVE 2	TASK PROJECT AREA 14 SITE PLAN	ORIGINAL REVISIONS:  DECEMBER 2012    1	6 7 8 9 10 11 12	GEORGE G. WISE FLORIDA P.E. NO. 24486	JOB NO. <u>100024759</u> DRAWN <u>NJS</u> PE <u>GGW</u> CHECKED <u>PD</u> QC SHEET C-15
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NOTE: PUMP STATION LAYOUT IS BASED ON MWI VERTICAL LINE SHAFT PUMPS WITH DIESEL POWERED DRIVE UNIT.



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INTAKE CHANNEL BOTTOM

![](_page_4_Figure_0.jpeg)

![](_page_5_Figure_0.jpeg)

![](_page_5_Figure_1.jpeg)

![](_page_5_Figure_2.jpeg)

![](_page_5_Figure_4.jpeg)

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![](_page_5_Picture_7.jpeg)

**SPREADER SWALE - SECTION B-B** 1" = 10'

GINAL <u>DECEMBER 2012</u> ISIONS:	6 7 8 9 10 11	GEORGE G WISE	JOB NO. <u>100024759</u> DRAWN <u>NJS</u> PE <u>GGW</u> CHECKED <u>PD</u> QC
	12	GEORGE G. WISE FLORIDA P.E. NO. 24486	SHEEL C-19

![](_page_6_Figure_0.jpeg)

![](_page_6_Picture_2.jpeg)

# NORTH GOLDEN GATE ESTATES FLOWWAY RESTORATION PROJECT ALTERNATIVE 2

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IONS
1
2
3

#### **SPREADER SWALE WEIR - PLAN VIEW** 1" = 20'

PROJECT

![](_page_6_Figure_6.jpeg)

### WEIR TYPICAL SECTION 1" = 20'

![](_page_6_Figure_8.jpeg)

![](_page_6_Figure_9.jpeg)

![](_page_6_Figure_10.jpeg)

STEEL SHEETPILING WITH

CONCRETE CAP

1.0' MIN. RIP RAP -

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![](_page_6_Figure_11.jpeg)

STANDARD DETAILS FOR ROADWAY RESTORATION FOR A PERPENDICULAR UTILITY CROSSING N.T.S.

## PAVEMENT AND BASE REPLACEMENT

CRUSHED CONCRETE, INSTALLED TO A THICKNESS OF TWO TIMES THE THICKNESS OF THE EXISTING BASE OR 12" WHICHEVER IS GREATER, SHALL BE INSTALLED IN 6" LIFTS. THE CRUSHED CONCRETE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180. A MINIMUM OF TWO DENSITY TESTS PER LIFT IS REQUIRED.

IN LIEU OF HEATING AND RAKING.

DISTURBED ROADWAYS CONSTRUCTED OF FULL DEPTH ASPHALT SHALL BE REPLACED IN KIND.

THE SURFACE COURSE SHALL BE F.D.O.T. SP-12.5 WITH A THICKNESS EQUAL TO THE EXISTING OR 1-1/2", WHICHEVER IS GREATER. PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED BUTT JOINTS HEATED, RAKED AND SPRAYED WITH A REJUVENATING AGENT. THE PATCH AREA SHALL BE A SMOOTH PLANE SUCH THAT A STRAIGHT EDGE PLACED ACROSS THE PATH, PARALLEL TO TRAFFIC FLOW AND EXTENDING TO UNDISTURBED PAVEMENT SHALL SHOW NO MORE THAN 1/4" IRREGULARITY. ANY IRREGULARITIES SHALL BE CORRECTED IN SUBSTANTIAL COMPLIANCE WITH F.D.O.T. SPECS.

### BACKFILL PROCEDURE

THE BACKFILL AND BEDDING MATERIAL SHALL BE OF THE A-1, A-2, A-3 OR A-2-4 CLASSIFICATION AS PER AASHTO, UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER.

THE BACKFILL SHALL BE COMPACTED IN 12" LAYERS WITH MECHANICAL TAMPERS TO THE FULL WIDTH OF THE TRENCH AND UP TO THE BOTTOM OF THE ROADWAY BASE. PARTICULAR ATTENTION MUST BE GIVEN TO THE ADEQUATE COMPACTION OF THE FILL BENEATH THE HAUNCHES OF THE PIPE. THE BACKFILL SHALL BE COMPACTED TO 100% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99. ONE DENSITY TEST SHALL BE TAKEN AT THE SPRING LINE OF THE PIPE, AT ONE FOOT ABOVE THE CROWN OF THE PIPE, AND EVERY FOOT VERTICALLY THEREAFTER. A MINIMUM OF TWO COMPLETE SETS OF BACKFILL DENSITY TESTS ARE REQUIRED. FLOWABLE FILL INACCORDANCE WITH SECTION 121 OF THE F.D.O.T. STANDARD SPECIFICATIONS MAY BE SUBSTITUTED.

IF WELL POINTS ARE USED TO PROVIDE A DRY TRENCH FOR LAYING THE UTILITY, THEY SHALL REMAIN IN OPERATION UNTIL THE BACKFILL IS COMPLETE AND TESTED.

ORIGINAL DECEMBER 2012 REVISIONS:	6 7		JOB NO. <u>100024759</u> DRAWN <u>NJS</u>
1	8		PEGGW
2	9		CHECKED <u>PD</u>
3	10		QC
4	11	GEORGE G. WISE	SHEFT C-20
5	12	FLORIDA P.E. NO. 24486	