COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
SIGNALIZATION PLANS
INTELLIGENT TRANSPORTATION SYSTEMS PLANS
LIGHTING PLANS
LANDSCAPE PLANS
ARCHITECTURAL PLANS
STRUCTURE PLANS

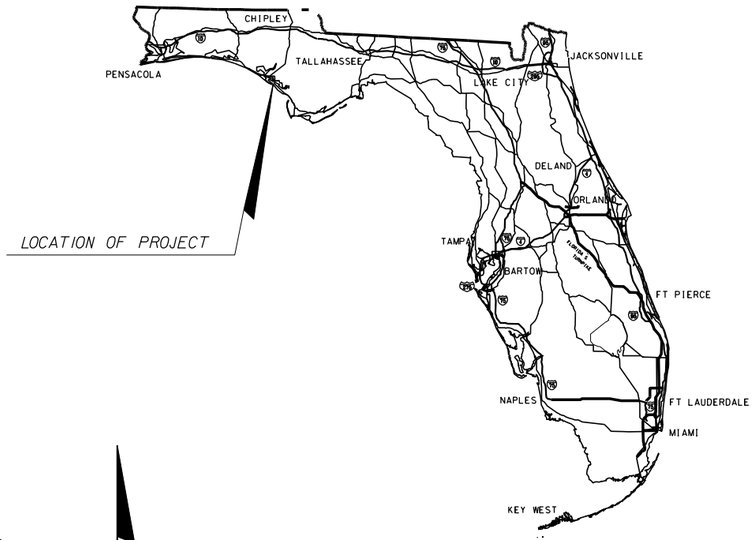
A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

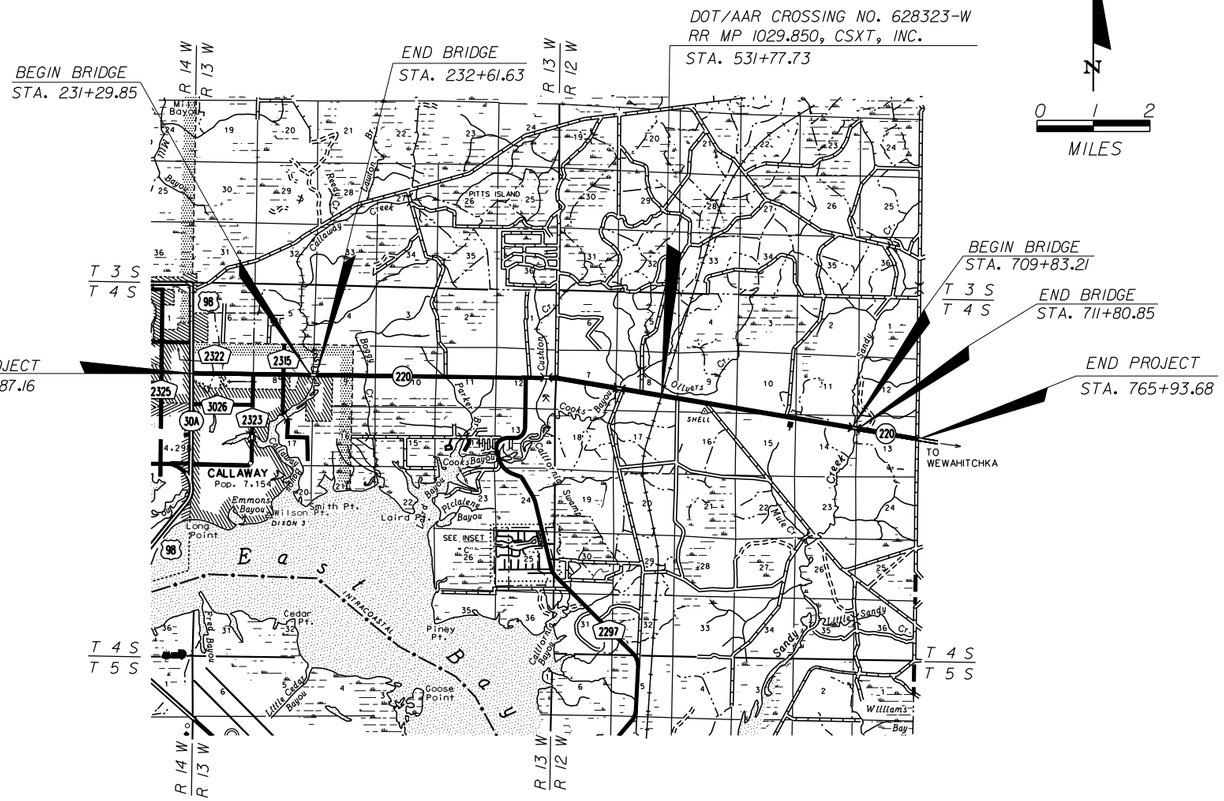
EXAMPLE ONLY: CONTRACT PLANS SET MAY NOT CONTAIN ALL OF THE LISTED COMPONENTS/SHEETS.

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 000001-1-52-01
(FEDERAL FUNDS)
BAY COUNTY (46001)
STATE ROAD NO. 220





N
0 1 2
MILES

ROADWAY SHOP DRAWINGS TO BE SUBMITTED TO:

NAME(S) AND ADDRESS(ES) OF ENGINEER(S) RESPONSIBLE FOR REVIEW OF SHOP DRAWINGS, WHEN REQUIRED.

PLANS PREPARED BY:

NAME, ADDRESS, CONTRACT NUMBER, VENDOR NUMBER AND CERTIFICATE OF AUTHORIZATION NUMBER OF THE CONSULTANT FIRM WHEN THE PLANS ARE PREPARED BY A CONSULTANT.

NOTE: THIS PROJECT TO BE LET TO CONTRACT WITH FINANCIAL PROJECT ID 000002-1-52-02.

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

INDEX OF ROADWAY PLANS

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED 2006,
AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2004,
AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 7-1-06

For Design Standards Modifications click on "Design Standards" at the following web site:
http://www.dot.state.fl.us/rddesign/

REVISIONS

FINANCIAL PROJECT ID 000001-1-52-01
Roadway Sheets 1, 6, 7 & 13 (Revised 03-10-05)
Signing & Pavement Marking Sheets S-2 & S-3 (Revised 3-10-05)
Signalization Sheets T-1 & T-2 (Revised 11-30-04)
Roadway Sheets 14 & 33 (Revised 3-31-05)
Summary Of Pay Items (Revised 3-31-05)

FINANCIAL PROJECT ID 000001-1-52-04
Roadway Sheets 1, 8 & 10 (Revised 3-31-05)
Structure Sheets B-1 & C-1 thru C-10 (Revised 11-30-04)

LENGTH OF PROJECT

	LINEAR FEET	MILES
ROADWAY	63,677.10	12.060
BRIDGES	329.42	0.062
NET LENGTH OF PROJ.	64,006.52	12.122
EXCEPTIONS		
GROSS LENGTH OF PROJ.	64,006.52	12.122

KEY SHEET REVISIONS

DATE	BY	DESCRIPTION
3-05	JBW	Revised sequence of contract plans.

EXHIBIT KS-1
Date: 1/1/06

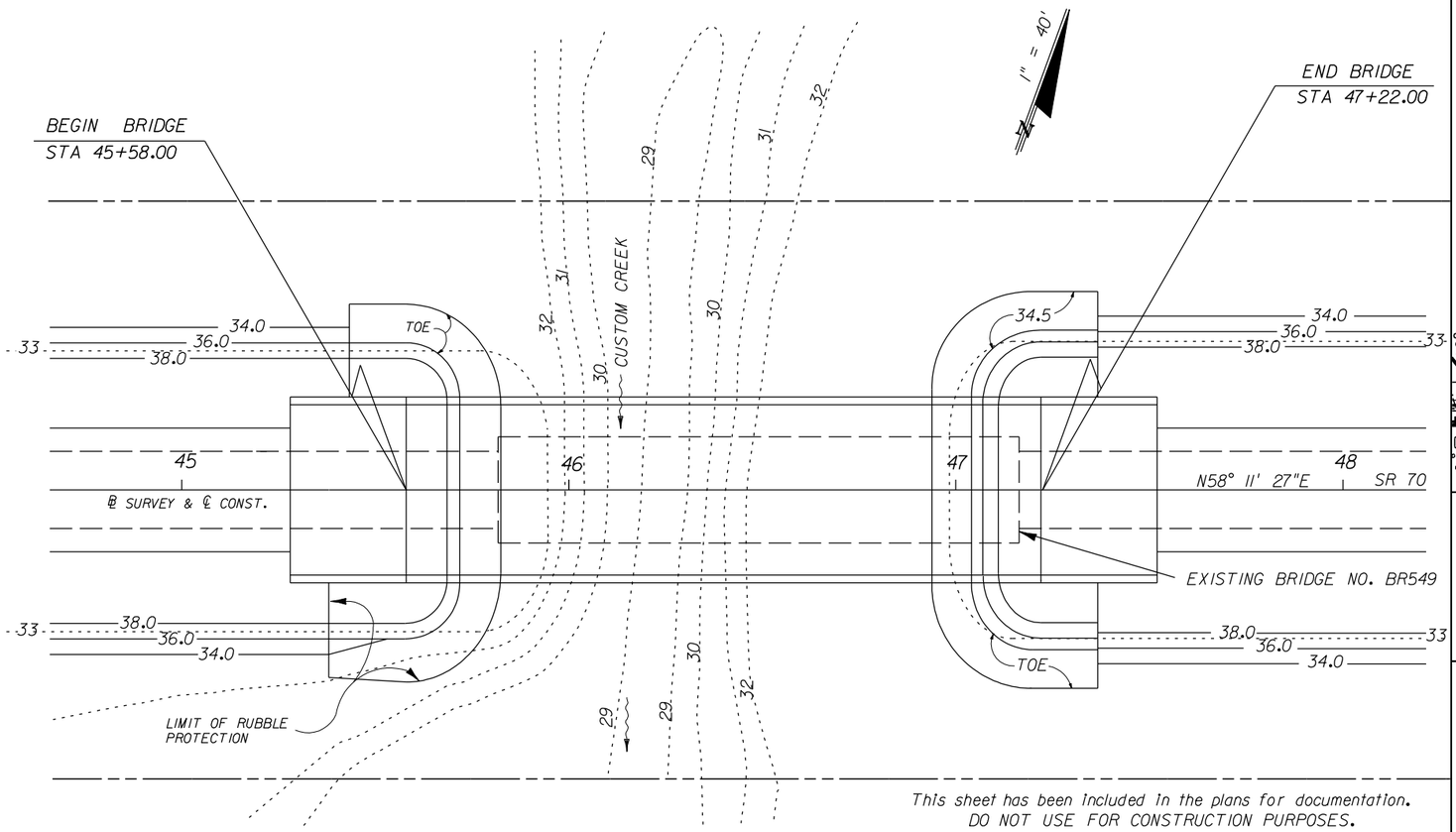
ROADWAY PLANS
ENGINEER OF RECORD: _____

P.E. NO. : _____

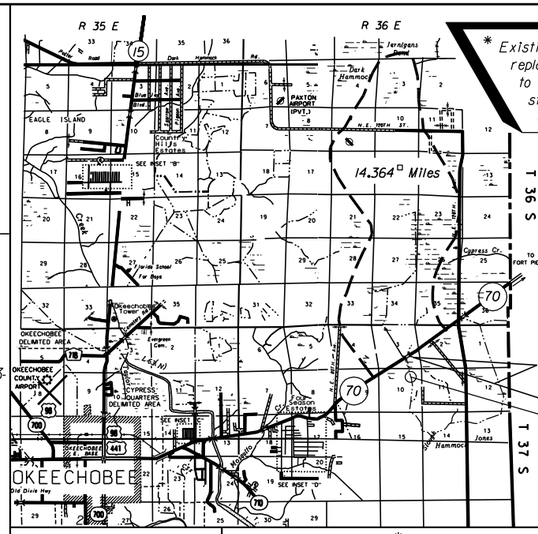
FDOT PROJECT MANAGER :

FISCAL YEAR	SHEET NO.

ELECTRONIC SIGNATURE NOTE WHEN SHEET IS ELECTRONICALLY SIGNED AND SEALED



This sheet has been included in the plans for documentation.
DO NOT USE FOR CONSTRUCTION PURPOSES.



* Existing structure 1 refers to the structure being replaced or modified. Structures 2, 3 & 4 refer to relief and immediate upstream and downstream structures and others that affect the hydraulics of the proposed structure.

(REFERENCE)	* EXISTING STRUCTURES (1)	(2)	(3)	(4)	PROPOSED STRUCTURE
FOUNDATION	Conc. Piles	Timber			Conc. Piles
OVERALL LENGTH	135	200			164 (rem. #1)
SPAN LENGTH	5 @ 27	20 @ 10			4 @ 41
TYPE CONSTRUCTION	Concrete	Timber			Concrete
AREA OF OPENING @ D.F.	1000	Unknown			1020
BRIDGE WIDTH	28'	Railroad (South)			44'
ELEV. LOW MEMBER	40.35	38.32			41.17

HYDRAULIC DESIGN DATA

NOTE:
The hydraulic data is shown for informational purposes only to indicate the flood discharges and water surface elevations which may be anticipated in any given year. This data was generated using highly variable factors determined by a study of the watershed. Many judgements and assumptions are required to establish these factors. The resultant hydraulic data is sensitive to changes, particularly antecedent conditions, urbanization, channelization and land use. Users of this data are cautioned against the assumption of precision which cannot be obtained.

TERMS:
Design Flood: Utilized to assure a desired level of hydraulic performance.
Base Flood: Has a 1% chance of being exceeded in any given year (100 year frequency)
Overtopping Flood: Causes flow over the highway, over a watershed divide, or thru emergency relief structures.
Greatest Flood: The most severe that can be predicted where overtopping is not practicable.

WATER SURFACE ELEVATIONS: N.H.W. (Non-Tidal) 33.14 M.H.W. (Tidal) _____
CONTROL (Non-Tidal) _____ M.L.W. (Tidal) _____

FLOOD DATA:	MAX. EVENT OF RECORD	DESIGN FLOOD	BASE FLOOD	☐ OVERTOPPING or ☒ GREATEST FLOOD
STAGE ELEV. NGVD (ft)	38.7 (rem. #2)	38.91	39.27	39.57
DISCHARGE (cfs)	unknown	3280	3950	4630
AVERAGE VELOCITY (ft/s)	"	3.22	3.58	4.13
EXCEEDANCE PROB. (%)	"	2	1	0.2
FREQUENCY (yr.)	"	50	100	500

SCOUR PREDICTIONS FOR PROPOSED STRUCTURE DESCRIBED ABOVE:

PIER INFORMATION NUMBERS	* * SIZE AND TYPE	LONG TERM SCOUR ELEV.	TOTAL SCOUR ELEVATION WORST CASE < 100 yr. FREQ. (yr.) 100	WORST CASE < 500 yr. FREQ. (yr.) 500
2 & 3	24" Conc. Piles	N/A	18.4	16.4
4 (rem. #3)	24" Conc. Piles	N/A	27.6	25.6

HYDRAULIC RECOMMENDATIONS

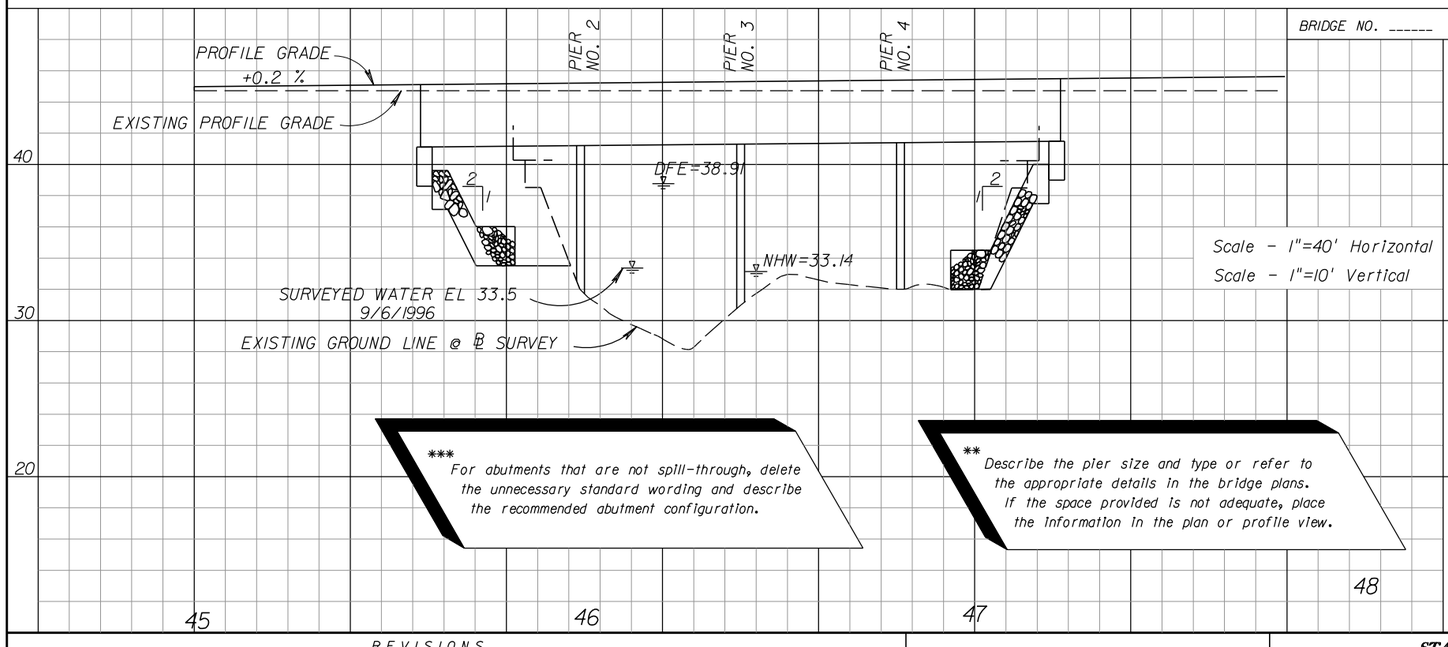
1. BEGIN BRIDGE STATION 45+58.00 END BRIDGE STATION 47+22.00 SKEW ANGLE 0°
2. CLEARANCE PROVIDED: NAV: HORIZ. 39.0 VERT. 8.04 ABOVE EL. 33.14 DRIFT: HORIZ. 39.0 VERT. 2.26 ABOVE EL. 38.91
3. MINIMUM CLEARANCE: NAV: HORIZ. 10.0 VERT. 6.0 ABOVE EL. 33.14 DRIFT: HORIZ. N/A VERT. 2.0 ABOVE EL. 38.91
4. ABUTMENTS:

* * *	BEGIN BRIDGE	END BRIDGE
RUBBLE GRADE:	Bank and Shore	Bank and Shore
SLOPE:	1:2	1:2
BURIED OR NON-BURIED HORIZ. TOE:	Non-Buried	Non-Buried
TOE HORIZ. DISTANCE:	10	10
LIMIT OF PROTECTION:	15' Lt., 20' Rt.	15' Lt. and Rt.

5. DECK DRAINAGE: Spread is contained in shoulder. Runoff captured by inlets at begin bridge.

REMARKS: (1) Bridge lengthened to accomodate predicted channel migration to the west.
(2) Based on mark provided by local resident of 43 years.
(3) Due to predicted channel migration to the west and lack of meander cutoff, Pier No. 4 will not experience main channel scour depths.

EXHIBIT BHD-1
Date: 1/1/06



*** For abutments that are not spill-through, delete the unnecessary standard wording and describe the recommended abutment configuration.

** Describe the pier size and type or refer to the appropriate details in the bridge plans. If the space provided is not adequate, place the information in the plan or profile view.

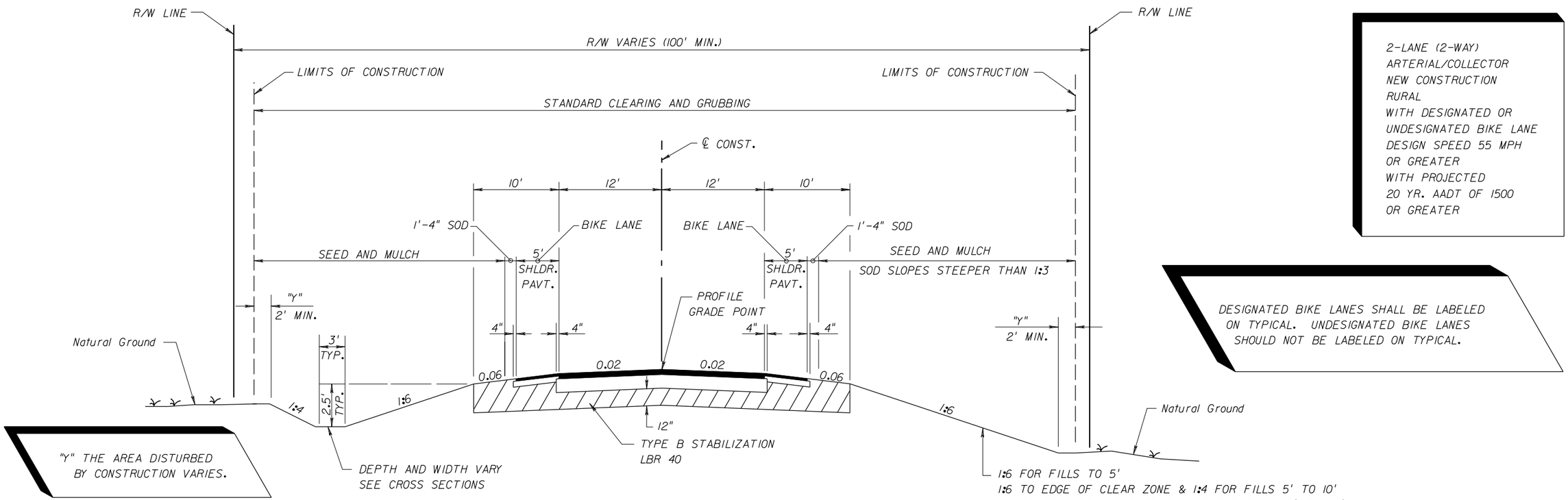
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID

BRIDGE HYDRAULIC RECOMMENDATIONS

SHEET NO.



"Y" THE AREA DISTURBED BY CONSTRUCTION VARIES.

2-LANE (2-WAY)
ARTERIAL/COLLECTOR
NEW CONSTRUCTION
RURAL
WITH DESIGNATED OR
UNDESIGNATED BIKE LANE
DESIGN SPEED 55 MPH
OR GREATER
WITH PROJECTED
20 YR. AADT OF 1500
OR GREATER

DESIGNATED BIKE LANES SHALL BE LABELED ON TYPICAL. UNDESIGNATED BIKE LANES SHOULD NOT BE LABELED ON TYPICAL.

1:6 FOR FILLS TO 5'
1:6 TO EDGE OF CLEAR ZONE & 1:4 FOR FILLS 5' TO 10'
1:6 TO EDGE OF CLEAR ZONE & 1:3 FOR FILLS 10' TO 20'
1:2 (WITH GUARDRAIL) FOR FILLS OVER 20'

TYPICAL SECTION
SR 10 (U.S. 90-A)
STA. 10+00.00 TO STA. 267+34.89

TRAFFIC DATA

CURRENT YEAR = 1998 AADT = 6800
ESTIMATED OPENING YEAR = 2000 AADT = 7600
ESTIMATED DESIGN YEAR = 2020 AADT = 15000
K = 6% D = 55% T = 2% (24 HOUR)
DESIGN HOUR T = 1%
DESIGN SPEED = 45 MPH

TRAFFIC DATA IS REQUIRED TO BE NOTED FOR CURRENT YEAR, OPENING YEAR AND DESIGN YEAR. POSTED SPEED (MPH) IS OPTIONAL.

FOR STANDARD TYPICAL SECTION NOTES REFER TO EXHIBIT 6-1, THIS CHAPTER.

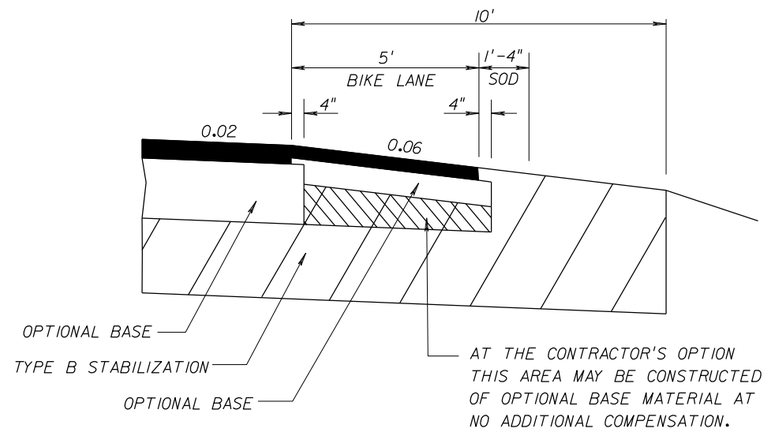
NEW CONSTRUCTION

OPTIONAL BASE GROUP 8 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2")
AND FRICTION COURSE FC-12.5 (1½") (RUBBER)

SHOULDER PAVEMENT

OPTIONAL BASE GROUP 1 WITH
FRICTION COURSE FC-12.5 (1½") (RUBBER)

NOTE:
HEIGHT OF FILL IS THE VERTICAL DISTANCE FROM THE EDGE OF THE OUTSIDE TRAVEL LANE TO TOE OF FRONT SLOPE.



SHOULDER PAVEMENT DETAIL

EXHIBIT TYP-1
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

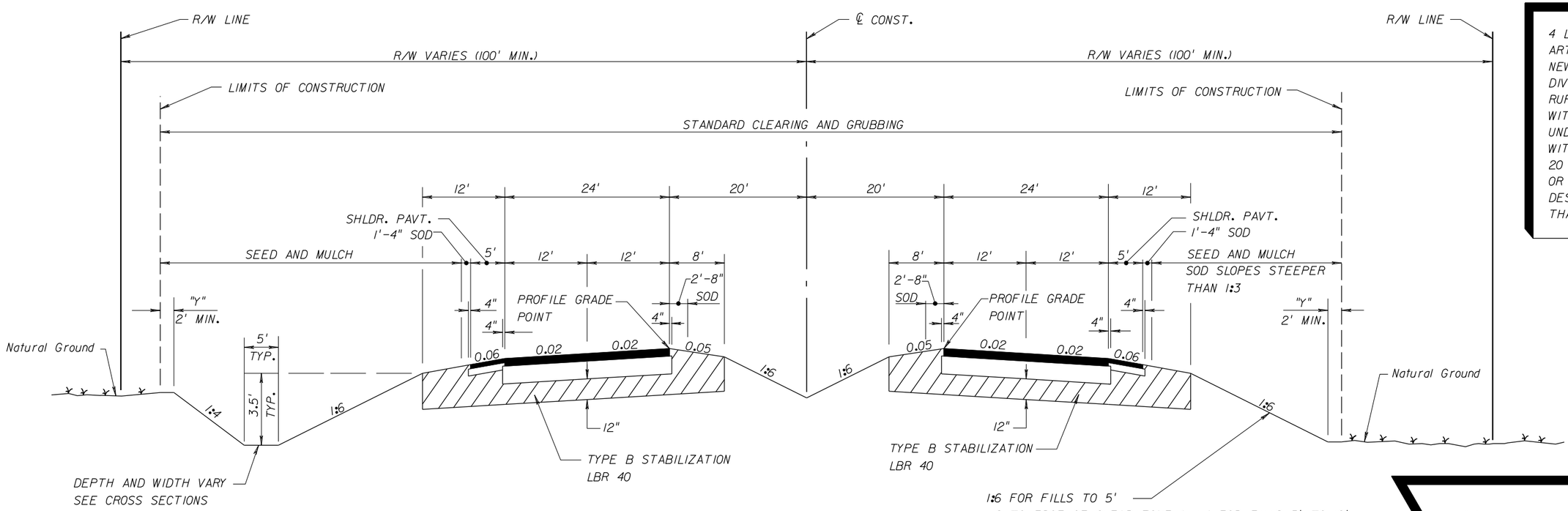
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

TYPICAL SECTION

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$



4 LANE
ARTERIAL/COLLECTOR
NEW CONSTRUCTION
DIVIDED
RURAL
WITH DESIGNATED OR
UNDESIGNATED BIKE LANE
WITH PROJECTED
20 YR. AADT OF 1500
OR GREATER
DESIGN SPEED GREATER
THAN 50 MPH

"Y" THE AREA DISTURBED BY CONSTRUCTION VARIES.

TRAFFIC DATA

CURRENT YEAR = 1998 AADT = 22300
ESTIMATED OPENING YEAR = 2000 AADT = 23300
ESTIMATED DESIGN YEAR = 2020 AADT = 51500
K = 9% D = 56% T = 10% (24 HOUR)
DESIGN HOUR T = 5%
DESIGN SPEED = 70 MPH

TYPICAL SECTION
SR 500
STA. 63+65.42 TO STA. 328+65.14

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2")
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (1 1/2") (PG 76-22)
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

SHOULDER PAVEMENT

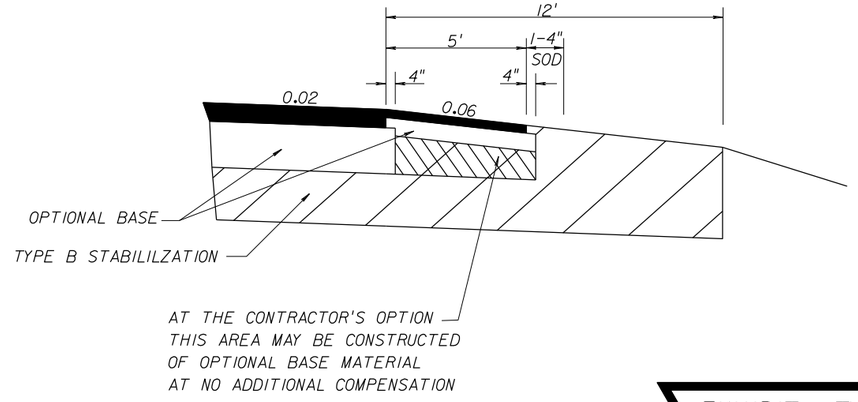
OPTIONAL BASE GROUP 1 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (1 1/2") (PG 76-22)
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

NOTE:
HEIGHT OF FILL IS THE VERTICAL DISTANCE FROM THE EDGE OF THE OUTSIDE TRAVEL LANE TO TOE OF FRONT SLOPE.

DESIGNATED BIKE LANES SHALL BE LABELED ON TYPICAL. UNDESIGNATED BIKE LANES SHOULD NOT BE LABELED ON TYPICAL.

TRAFFIC DATA IS REQUIRED TO BE NOTED FOR CURRENT YEAR, OPENING YEAR, AND DESIGN YEAR. POSTED SPEED (MPH) IS OPTIONAL.

FOR STANDARD TYPICAL SECTION NOTES REFER TO EXHIBIT 6-1, THIS CHAPTER.



SHOULDER PAVEMENT DETAIL

EXHIBIT TYP-2
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

TYPICAL SECTION

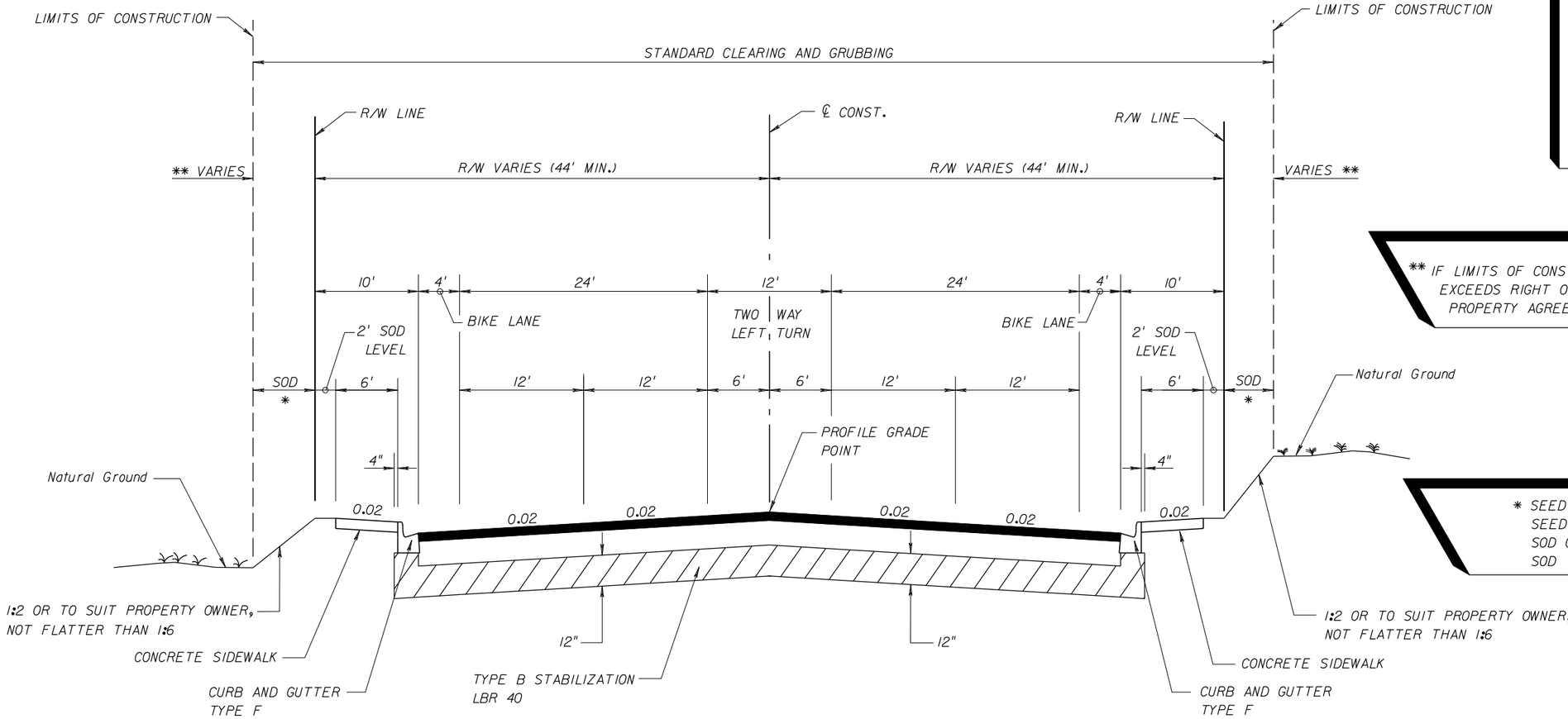
SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$

DESIGNATED BIKE LANES SHALL BE LABELED ON TYPICAL. UNDESIGNATED BIKE LANES SHOULD NOT BE LABELED ON TYPICAL.

5-LANE SECTIONS ARE TO INCLUDE SECTIONS OF RAISED OR RESTRICTIVE MEDIAN. SEE PPM TABLE 2.2.1.

5-LANE
ARTERIAL/COLLECTOR
NEW CONSTRUCTION
UNDIVIDED
URBAN
WITH DESIGNATED OR
UNDESIGNATED BIKE LANE
MINIMUM RIGHT OF WAY
DESIGN SPEED 40 MPH
OR LESS
WITH PROJECTED
20 YR. AADT OF 1500
OR GREATER



** IF LIMITS OF CONSTRUCTION EXCEEDS RIGHT OF WAY, A PROPERTY AGREEMENT IS REQUIRED.

* SEED
SEED AND MULCH
SOD OR SEED
SOD

TYPICAL SECTION
SR 00 (DUVAL STREET)
STA. 252+12.00 TO STA. 323+19.42

TRAFFIC DATA

CURRENT YEAR = 1998 AADT = 9900
ESTIMATED OPENING YEAR = 2000 AADT = 10600
ESTIMATED DESIGN YEAR = 2020 AADT = 14000
K = 6% D = 55% T = 2% (24 HOUR)
DESIGN HOUR T = 1%
DESIGN SPEED = 40 MPH

TRAFFIC DATA IS REQUIRED TO BE NOTED FOR CURRENT YEAR, OPENING YEAR AND DESIGN YEAR. POSTED SPEED (MPH) IS OPTIONAL.

NEW CONSTRUCTION

OPTIONAL BASE GROUP 8 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1 1/2") AND FRICTION COURSE FC-12.5 (1 1/2") (RUBBER)

FOR STANDARD TYPICAL SECTION NOTES REFER TO EXHIBIT 6-1, THIS CHAPTER.

EXHIBIT TYP-3
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

TYPICAL SECTION

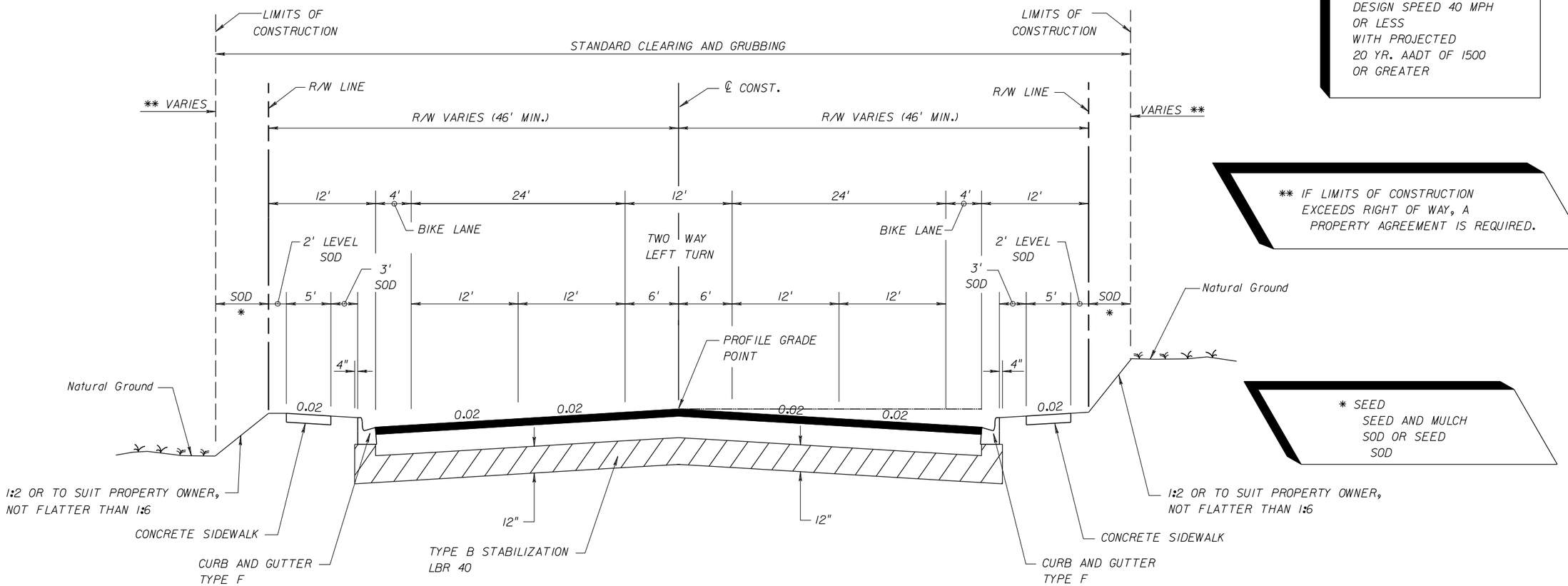
SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$

DESIGNATED BIKE LANES SHALL BE LABELED ON TYPICAL. UNDESIGNATED BIKE LANES SHOULD NOT BE LABELED ON TYPICAL.

5-LANE SECTIONS ARE TO INCLUDE SECTIONS OF RAISED OR RESTRICTIVE MEDIAN. SEE PPM TABLE 2.2.1.

5-LANE
ARTERIAL/COLLECTOR
NEW CONSTRUCTION
UNDIVIDED
URBAN
WITH DESIGNATED OR
UNDESIGNATED BIKE LANE
DESIGN SPEED 40 MPH
OR LESS
WITH PROJECTED
20 YR. AADT OF 1500
OR GREATER



** IF LIMITS OF CONSTRUCTION EXCEEDS RIGHT OF WAY, A PROPERTY AGREEMENT IS REQUIRED.

* SEED
SEED AND MULCH
SOD OR SEED
SOD

TRAFFIC DATA

CURRENT YEAR = 1998 AADT = 20819
ESTIMATED OPENING YEAR = 2003 AADT = 24100
ESTIMATED DESIGN YEAR = 2023 AADT = 24900
K = 9% D = 60% T = 2% (24 HOUR)
DESIGN HOUR T = 1%
DESIGN SPEED = 40 MPH

TRAFFIC DATA IS REQUIRED TO BE NOTED FOR CURRENT YEAR, OPENING YEAR AND DESIGN YEAR. POSTED SPEED (MPH) IS OPTIONAL.

TYPICAL SECTION
SR 00 (MATTHEWS STREET)
STA. 202+42.00 TO STA. 263+29.68

NEW CONSTRUCTION

OPTIONAL BASE GROUP 8 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1 1/2")
AND FRICTION COURSE FC-12.5 (1 1/2") (RUBBER)

FOR STANDARD TYPICAL SECTION NOTES REFER TO EXHIBIT 6-1, THIS CHAPTER.

EXHIBIT TYP-4
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

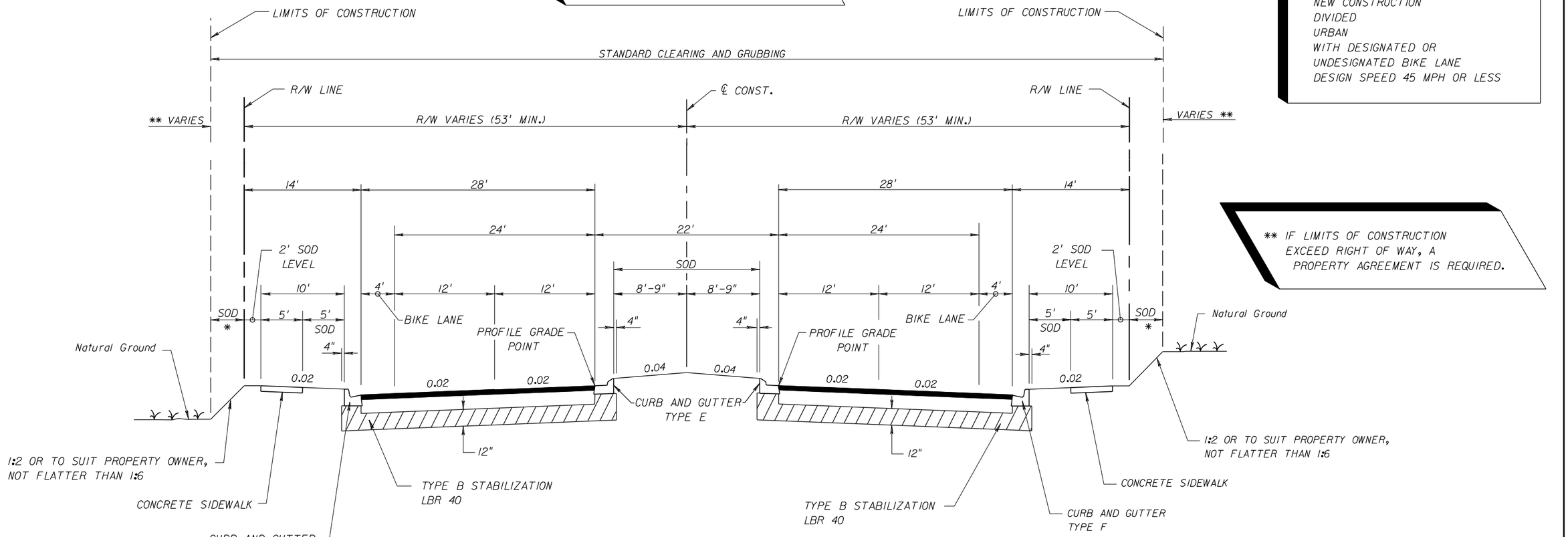
TYPICAL SECTION

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$

DESIGNATED BIKE LANES SHALL BE LABELED ON TYPICAL. UNDESIGNATED BIKE LANES SHOULD NOT BE LABELED ON TYPICAL.

4-LANE
ARTERIAL
NEW CONSTRUCTION
DIVIDED
URBAN
WITH DESIGNATED OR
UNDESIGNATED BIKE LANE
DESIGN SPEED 45 MPH OR LESS



** IF LIMITS OF CONSTRUCTION EXCEED RIGHT OF WAY, A PROPERTY AGREEMENT IS REQUIRED.

TYPICAL SECTION
SR 00 (WILSON STREET)
STA. 98+40.00 TO STA. 202+33.00

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1 1/2")
AND FRICTION COURSE FC-12.5 (1 1/2") (RUBBER)

TRAFFIC DATA

CURRENT YEAR = 1998 AADT = 22800
ESTIMATED OPENING YEAR = 2000 AADT = 25800
ESTIMATED DESIGN YEAR = 2020 AADT = 30600
K = 6% D = 55% T = 2% (24 HOUR)
DESIGN HOUR T = 1%
DESIGN SPEED = 45 MPH

TRAFFIC DATA IS REQUIRED TO BE NOTED FOR CURRENT YEAR, OPENING YEAR AND DESIGN YEAR. POSTED SPEED (MPH) IS OPTIONAL.

* SEED
SEED AND MULCH
SOD OR SEED
SOD

FOR STANDARD TYPICAL SECTION NOTES REFER TO EXHIBIT 6-1, THIS CHAPTER.

EXHIBIT TYP-5
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

TYPICAL SECTION

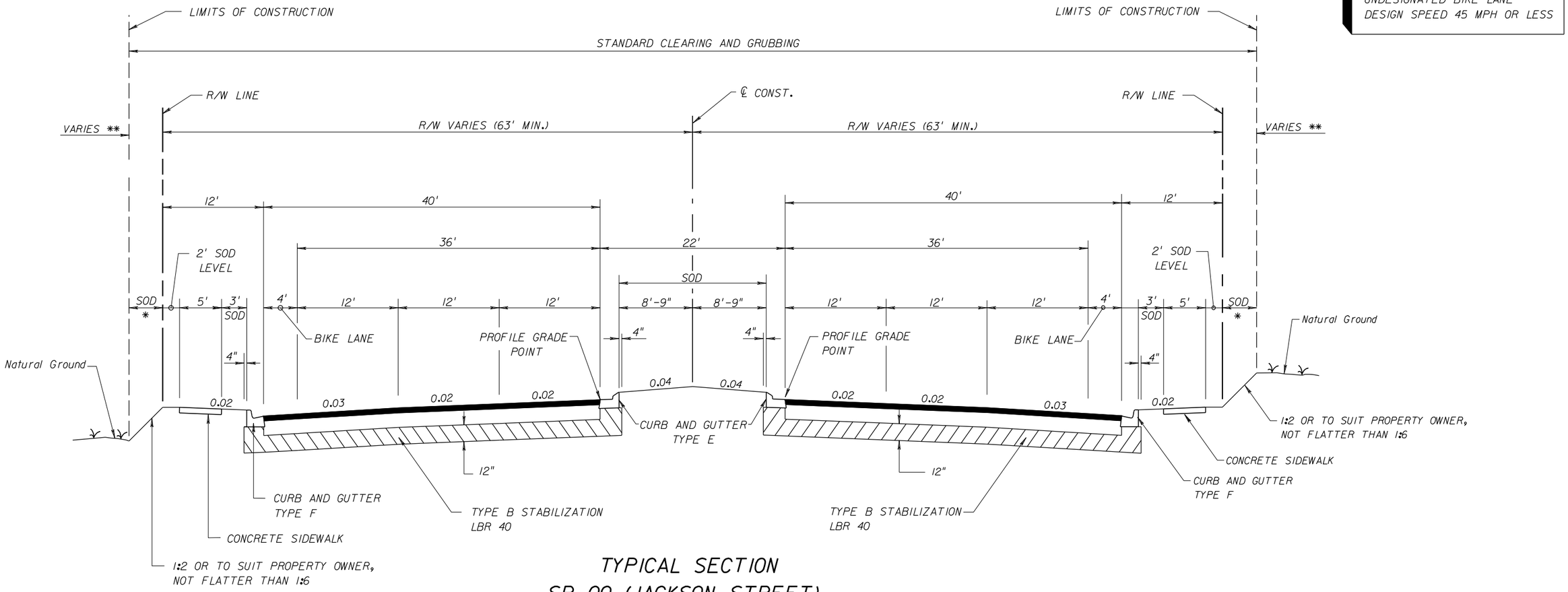
SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$

DESIGNATED BIKE LANES SHALL BE LABELED ON TYPICAL. UNDESIGNATED BIKE LANES SHOULD NOT BE LABELED ON TYPICAL.

** IF LIMITS OF CONSTRUCTION EXCEED RIGHT OF WAY, A PROPERTY AGREEMENT IS REQUIRED.

6-LANE
ARTERIAL
NEW CONSTRUCTION
DIVIDED
URBAN
WITH DESIGNATED OR
UNDESIGNATED BIKE LANE
DESIGN SPEED 45 MPH OR LESS



TYPICAL SECTION
SR 00 (JACKSON STREET)
STA. 101+21.00 TO STA. 221+44.00

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2")
AND FRICTION COURSE FC-12.5 (1 1/2") (RUBBER)

TRAFFIC DATA

CURRENT YEAR = 1998 AADT = 22800
ESTIMATED OPENING YEAR = 2000 AADT = 25800
ESTIMATED DESIGN YEAR = 2020 AADT = 30600
K = 6% D = 55% T = 2% (24 HOUR)
DESIGN HOUR T = 1%
DESIGN SPEED = 45 MPH

TRAFFIC DATA IS REQUIRED TO BE NOTED FOR CURRENT YEAR, OPENING YEAR AND DESIGN YEAR.

* SEED,
SEED AND MULCH,
SOD OR SEED
SOD

FOR STANDARD TYPICAL SECTION NOTES REFER TO EXHIBIT 6-1, THIS CHAPTER.

EXHIBIT TYP-6
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

TYPICAL SECTION

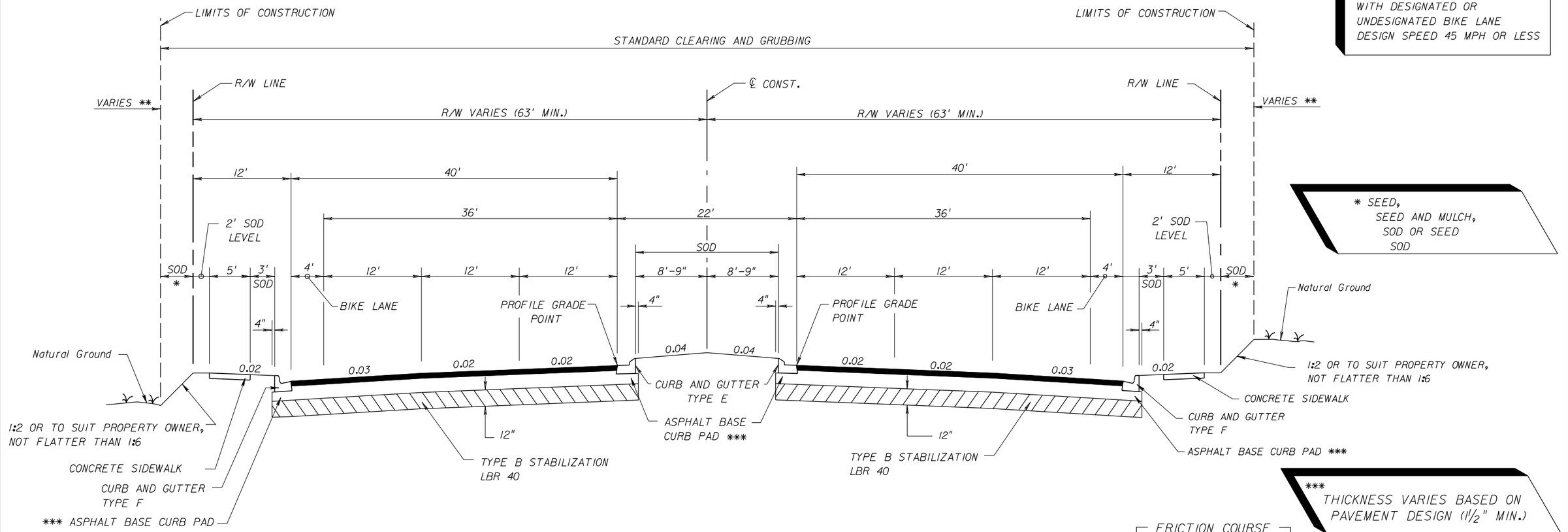
SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$

DESIGNATED BIKE LANES SHALL BE LABELED ON TYPICAL. UNDESIGNATED BIKE LANES SHOULD NOT BE LABELED ON TYPICAL.

** IF LIMITS OF CONSTRUCTION EXCEED RIGHT OF WAY, A PROPERTY AGREEMENT IS REQUIRED.

6-LANE
ARTERIAL
NEW CONSTRUCTION
DIVIDED
URBAN
WITH DESIGNATED OR
UNDESIGNATED BIKE LANE
DESIGN SPEED 45 MPH OR LESS



* SEED, SEED AND MULCH, SOD OR SEED SOD

TYPICAL SECTION
SR 00 (JACKSON STREET)
STA. 101+21.00 TO STA. 221+44.00

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9, TYPE B-12.5 (6") ONLY, WITH TYPE SP STRUCTURAL COURSE (TRAFFIC C) (3") AND FRICTION COURSE FC-12.5 (1½") (RUBBER)

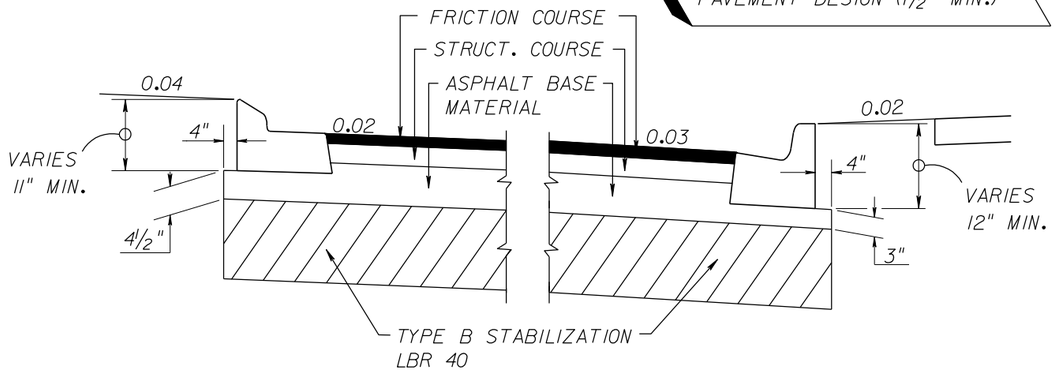
TRAFFIC DATA

CURRENT YEAR = 1998 AADT = 22800
ESTIMATED OPENING YEAR = 2000 AADT = 25800
ESTIMATED DESIGN YEAR = 2020 AADT = 30600
K = 6% D = 55% T = 2% (24 HOUR)
DESIGN HOUR T = 1%
DESIGN SPEED = 45 MPH

FOR STANDARD TYPICAL SECTION NOTES REFER TO EXHIBIT 6-1, THIS CHAPTER

TRAFFIC DATA IS REQUIRED TO BE NOTED FOR CURRENT YEAR, OPENING YEAR AND DESIGN YEAR.

*** THICKNESS VARIES BASED ON PAVEMENT DESIGN (1½" MIN.)



DETAIL OF ASPHALT BASE CURB PAD

EXHIBIT TYP-6A
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

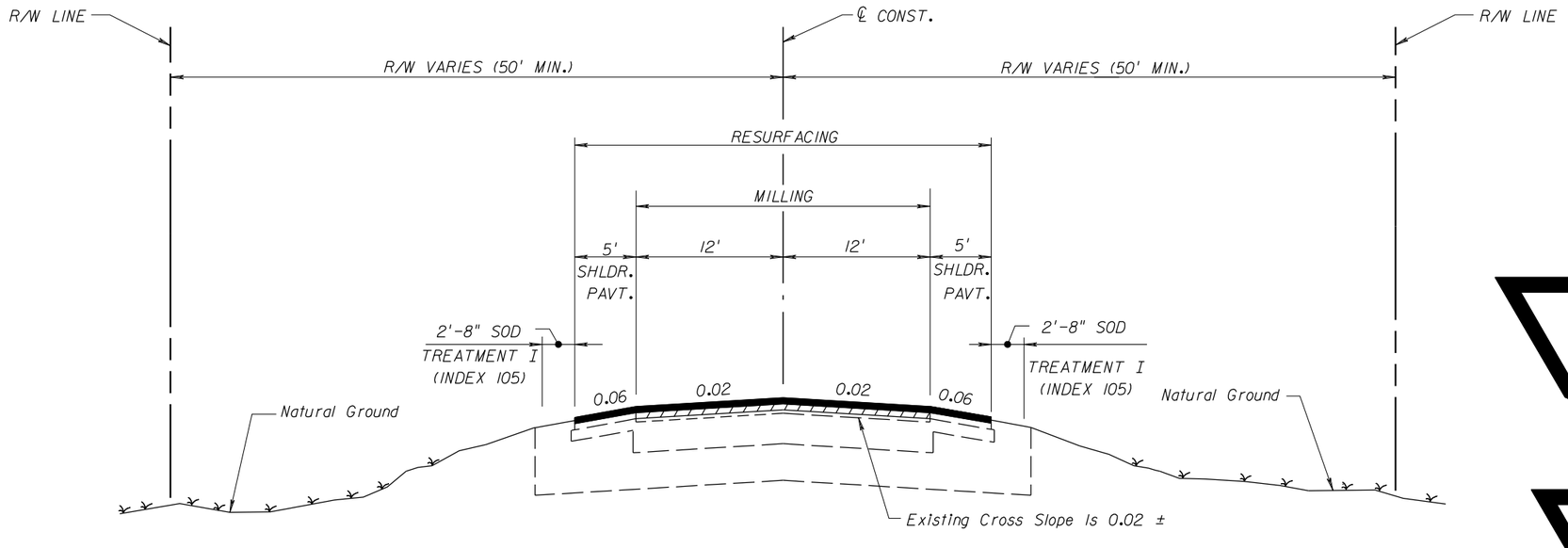
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

TYPICAL SECTION

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$

DESIGNATED BIKE LANES SHALL BE LABELED ON TYPICAL, UNDESIGNATED BIKE LANES SHOULD NOT BE LABELED ON TYPICAL.



EXISTING
2-LANE (2-WAY)
ARTERIAL/COLLECTOR
MILLING AND RESURFACING
NO CROSS SLOPE
CORRECTION REQUIRED
UNDIVIDED
RURAL
(WITH DESIGNATED OR
UNDESIGNATED BIKE LANE
EXISTING)
WITH PROJECTED 20 YR.
AADT OF 1500 OR GREATER

SOME PROJECTS MAY REQUIRE SHOULDER WORK. WHEN REQUIRED THIS SHOULD BE IDENTIFIED ON THE TYPICAL SECTION SHEET.

FOR STANDARD TYPICAL SECTION NOTES REFER TO EXHIBIT 6-1, THIS CHAPTER.

TRAFFIC DATA
STA. 10+53.00 TO STA. 130+77.00

CURRENT YEAR = 1998 AADT = 9670
ESTIMATED OPENING YEAR = 2000 AADT = 11900
ESTIMATED DESIGN YEAR = 2010 AADT = 20200
K = 10% D = 60% T = 7% (24 HOUR)
DESIGN HOUR T = 3%
DESIGN SPEED = 55 MPH

STA. 206+82.28 TO 368+41.21

CURRENT YEAR = 1998 AADT = 6835
ESTIMATED OPENING YEAR = 2000 AADT = 8600
ESTIMATED DESIGN YEAR = 2010 AADT = 15100
K = 10% D = 65% T = 7% (24 HOUR)
DESIGN HOUR T = 3%
DESIGN SPEED = 55 MPH

TRAFFIC DATA IS REQUIRED TO BE NOTED FOR CURRENT YEAR, OPENING YEAR AND DESIGN YEAR.

TYPICAL SECTION
SR 00
STA. 10+53.00 TO STA. 130+77.00
STA. 206+82.28 TO STA. 368+41.21

MILLING

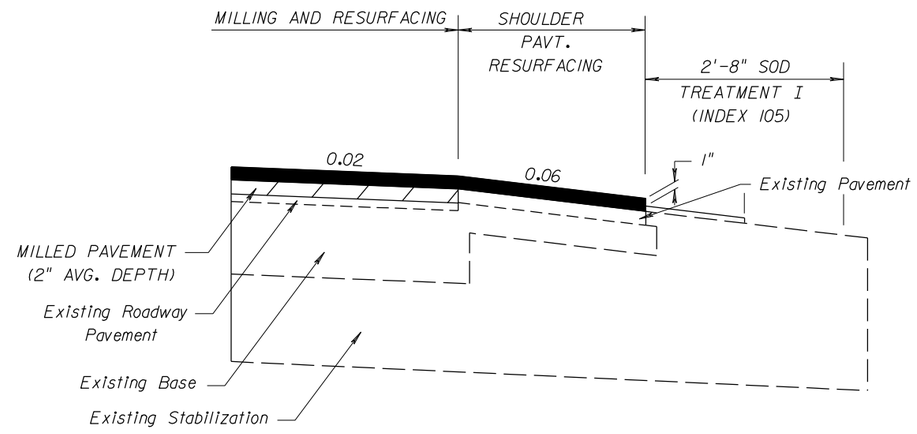
MILL EXISTING ASPHALT PAVEMENT (2" AVG. DEPTH)

RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2")
AND FRICTION COURSE FC-9.5 (1") (RUBBER)

SHOULDER PAVEMENT RESURFACING

FRICTION COURSE FC-9.5 (1") (RUBBER)



SHOULDER PAVEMENT DETAIL

EXHIBIT TYP-7
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

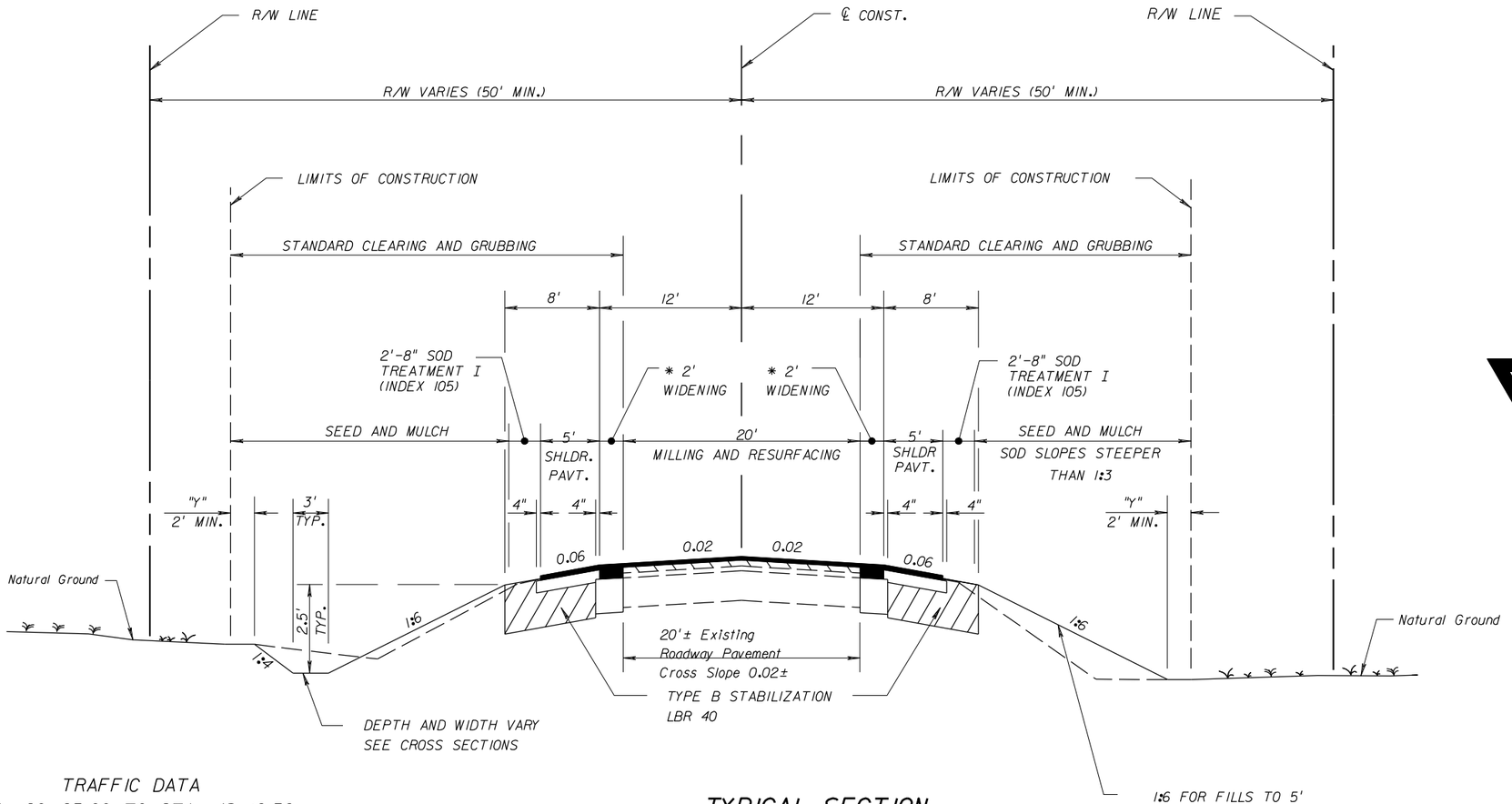
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

TYPICAL SECTION

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$



EXISTING
2-LANE (2-WAY)
ARTERIAL/COLLECTOR
WIDENING
MILLING AND RESURFACING
UNDIVIDED
RURAL
CONST. 5' SHOULDER
PAVEMENT OR BIKE LANE
WITH PROJECTED 20 YR.
AADT OF 1500 OR GREATER
DESIGN SPEED GREATER
THAN 50 MPH

DESIGNATED BIKE LANES SHALL BE LABELED ON TYPICAL. UNDESIGNATED BIKE LANES SHOULD NOT BE LABELED ON TYPICAL.

"Y" THE AREA DISTURBED BY CONSTRUCTION VARIES.

1:6 FOR FILLS TO 5'
1:6 TO EDGE OF CLEAR ZONE & 1:4 FOR FILLS 5' TO 10'
1:6 TO EDGE OF CLEAR ZONE & 1:3 FOR FILLS 10' TO 20'
1:2 (WITH GUARDRAIL) FILLS OVER 20'

NOTE:
HEIGHT OF FILL IS THE VERTICAL DISTANCE FROM THE EDGE OF THE OUTSIDE TRAVEL LANE TO TOE OF FRONT SLOPE.

FOR STANDARD TYPICAL SECTION NOTES REFER TO EXHIBIT 6-1, THIS CHAPTER.

* SEE SHEET 2 OF 2 FOR WIDENING AND SHOULDER PAVEMENT DETAIL

TRAFFIC DATA
STA. 20+25.00 TO STA. 48+16.56

CURRENT YEAR = 1998 AADT = 8700
ESTIMATED OPENING YEAR = 2000 AADT = 9200
ESTIMATED DESIGN YEAR = 2020 AADT = 23600
K = 10% D = 56% T = 5% (24 HOUR)
DESIGN HOUR T = 3%
DESIGN SPEED = 55 MPH

STA. 57+82.78 TO STA. 93+41.21

CURRENT YEAR = 1998 AADT = 6835
ESTIMATED OPENING YEAR = 2000 AADT = 8600
ESTIMATED DESIGN YEAR = 2020 AADT = 17200
K = 10% D = 65% T = 7% (24 HOUR)
DESIGN HOUR T = 3 %
DESIGN SPEED = 55 MPH

TRAFFIC DATA IS REQUIRED TO BE NOTED FOR CURRENT YEAR, OPENING YEAR AND DESIGN YEAR.

TYPICAL SECTION
SR 000
STA. 20+25.00 TO STA. 48+16.56
STA. 57+82.78 TO STA. 93+41.21

MILLING

MILL EXISTING ASPHALT PAVEMENT (2" AVG. DEPTH)

RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") AND FRICTION COURSE FC-12.5 (1 1/2") (RUBBER)

WIDENING

OPTIONAL BASE GROUP 11 WITH TYPE SP STRUCTURAL COURSE (TRAFFIC C) (3") AND FRICTION COURSE FC-12.5 (1 1/2") (RUBBER)

EXHIBIT TYP-8
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

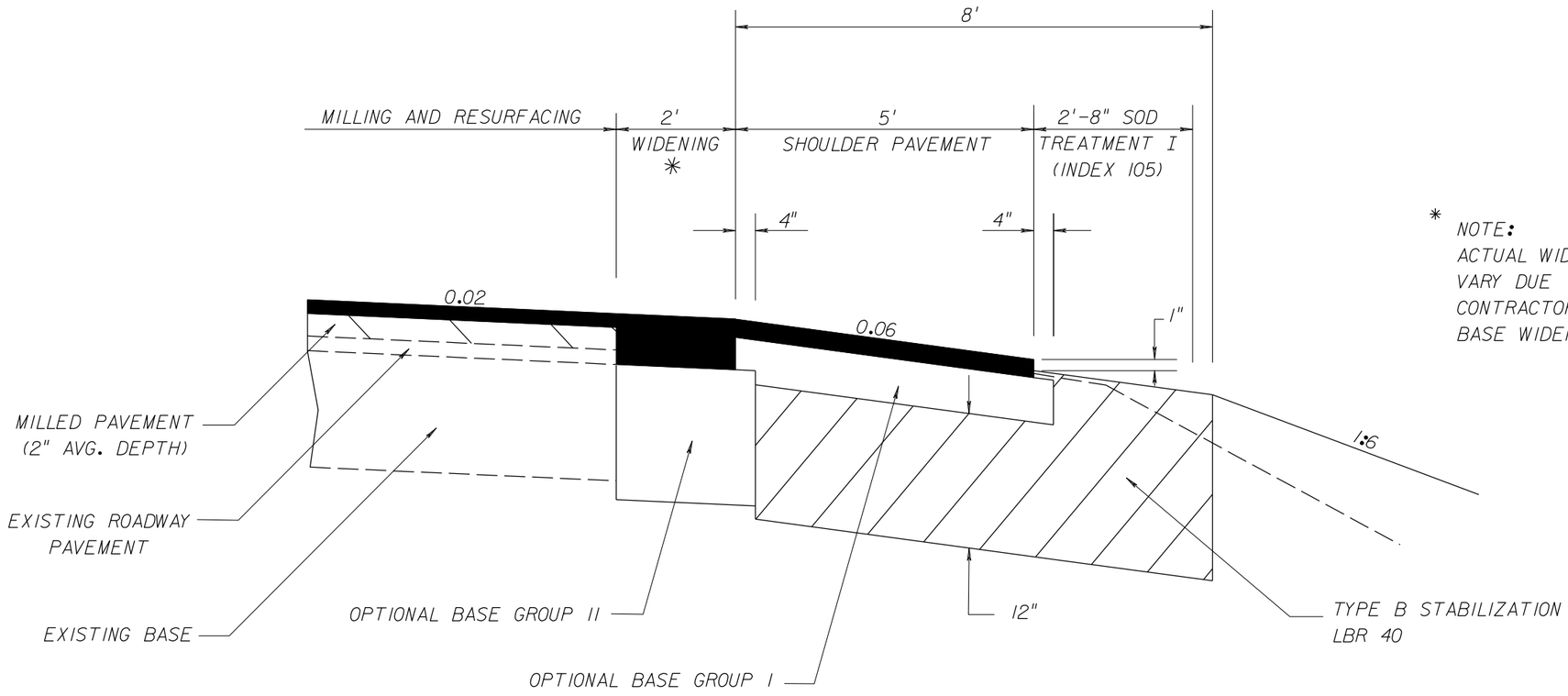
TYPICAL SECTION

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$

DESIGNATED BIKE LANES SHALL BE LABELED ON TYPICAL. UNDESIGNATED BIKE LANES SHOULD NOT BE LABELED ON TYPICAL.

THE NEED FOR STABILIZATION IN THE SHOULDER AREA ON RRR PROJECTS IS SITE SPECIFIC AND NOT ALWAYS REQUIRED. THE USE OF STABILIZING IN NARROW TRENCH WIDENING STRIPS IS NOT RECOMMENDED GENERALLY. SEE THE FLEXIBLE PAVEMENT DESIGN MANUAL FOR FURTHER CRITERIA.



* NOTE:
ACTUAL WIDTH OF BASE WIDENING MAY VARY DUE TO ACTUAL PAVEMENT WIDTH. CONTRACTOR MAY ELECT TO PLACE UNIFORM BASE WIDENING AT NO ADDITIONAL COST.

WIDENING & SHOULDER PAVEMENT DETAIL

WIDENING

OPTIONAL BASE GROUP II WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (3")
FRICTION COURSE FC-12.5 (1½") (RUBBER)

SHOULDER PAVEMENT

OPTIONAL BASE GROUP I WITH
FRICTION COURSE FC-12.5 (1½") (RUBBER)

FOR STANDARD TYPICAL SECTION NOTES REFER TO EXHIBIT 6-1, THIS CHAPTER

EXHIBIT TYP-8A
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

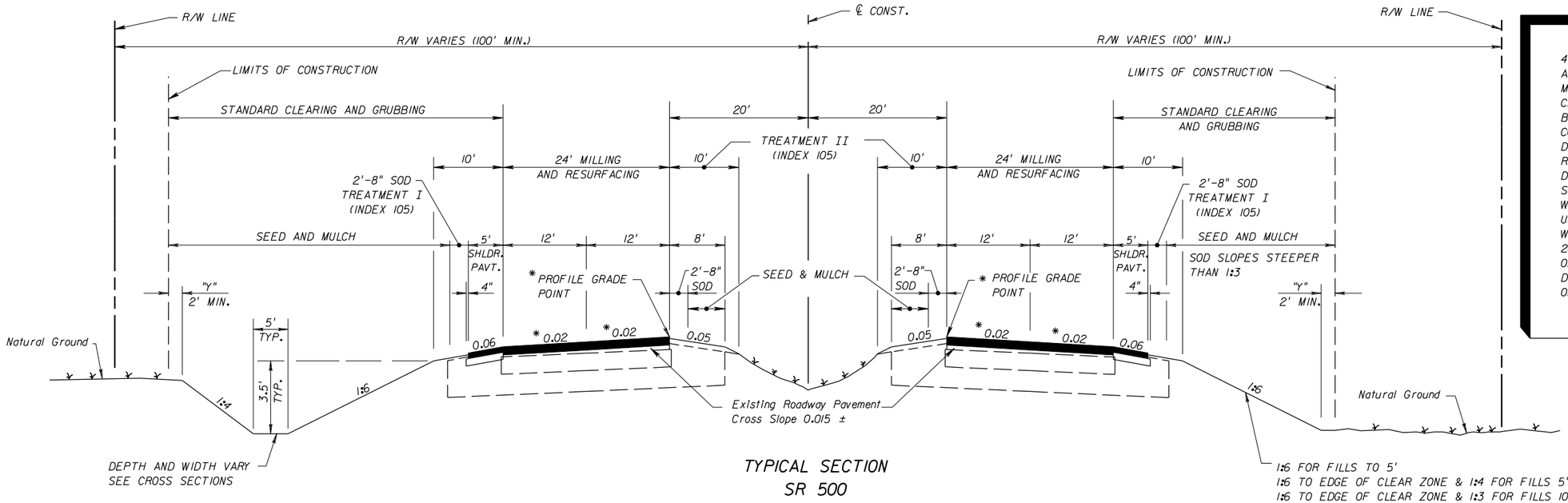
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

TYPICAL SECTION

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$



4 LANE
ARTERIAL/COLLECTOR
MILLING & RESURFACING
CROSS SLOPE CORRECTION
BY MILLING OR OVERBUILD
CONST. 5' SHLDR. PAV'T
DIVIDED
RURAL
DRAINAGE IMPROVEMENTS
SAFETY IMPROVEMENTS
WITH DESIGNATED OR
UNDESIGNATED BIKE LANE
WITH PROJECTED
20 YR. AADT OF 1500
OR GREATER
DESIGN SPEED 45 MPH
OR GREATER

TYPICAL SECTION
SR 500
STA. 204+34.58 TO STA. 288+95.16

1:6 FOR FILLS TO 5'
1:6 TO EDGE OF CLEAR ZONE & 1:4 FOR FILLS 5' TO 10'
1:6 TO EDGE OF CLEAR ZONE & 1:3 FOR FILLS 10' TO 20'
1:2 (WITH GUARDRAIL) FILLS OVER 20'

DESIGNATED BIKE LANES SHALL BE LABELED ON TYPICAL. UNDESIGNATED BIKE LANES SHOULD NOT BE LABELED ON TYPICAL.

TRAFFIC DATA

CURRENT YEAR = 1998 AADT = 18100
ESTIMATED OPENING YEAR = 2000 AADT = 21000
ESTIMATED DESIGN YEAR = 2012 AADT = 30900
K = 11% D = 58% T = 22% (24 HOUR)
DESIGN HOUR T = 11%
DESIGN SPEED = 60 MPH
POSTED SPEED = 55 MPH

TRAFFIC DATA IS REQUIRED TO BE NOTED FOR CURRENT YEAR, OPENING YEAR, AND DESIGN YEAR. POSTED SPEED (MPH) IS OPTIONAL.

* WHEN CROSS SLOPE CORRECTION IS NECESSARY SPECIAL MILLING, OVERBUILD AND LAYERING DETAILS MUST BE PROVIDED TO SUPPLEMENT TYPICAL SECTION. THE NEED FOR AND LOCATION OF PROFILE GRADE POINTS WILL DEPEND ON SITE SPECIFIC CONDITIONS.

MILLING
MILL EXISTING ASPHALT PAVEMENT (1½" AVG. DEPTH)

RESURFACING
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (1½")
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (1½") (PG 76-22)
AND FRICTION COURSE FC-5 (¾") (PG 76-22)

SHOULDER PAVEMENT
OPTIONAL BASE GROUP 1 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (1½") (PG 76-22)
AND FRICTION COURSE FC-5 (¾") (PG 76-22)

STA. 316+53.67 TO STA. 527+82.00

MILLING
MILL EXISTING ASPHALT PAVEMENT (1½" AVG. DEPTH)

OVERBUILD
TYPE SP OVERBUILD (TRAFFIC D) (1¼" AVG.)

RESURFACING
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (1½")
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (1½") (PG 76-22)
AND FRICTION COURSE FC-5 (¾") (PG 76-22)

SHOULDER PAVEMENT
OPTIONAL BASE GROUP 1 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (1½") (PG 76-22)
AND FRICTION COURSE FC-5 (¾") (PG 76-22)

NOTE:
HEIGHT OF FILL IS THE VERTICAL DISTANCE FROM THE EDGE OF THE OUTSIDE TRAVEL LANE TO TOE OF FRONT SLOPE.

"Y" THE AREA DISTURBED BY CONSTRUCTION VARIES.

FOR STANDARD TYPICAL SECTION NOTES REFER TO EXHIBIT 6-1, THIS CHAPTER.

FOR MILLING AND RESURFACING DETAILS SEE TYPICAL SECTION DETAILS SHEET 2 AND 3

EXHIBIT TYP-9
Date: 1/1/06

SHEET 1 OF 3

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

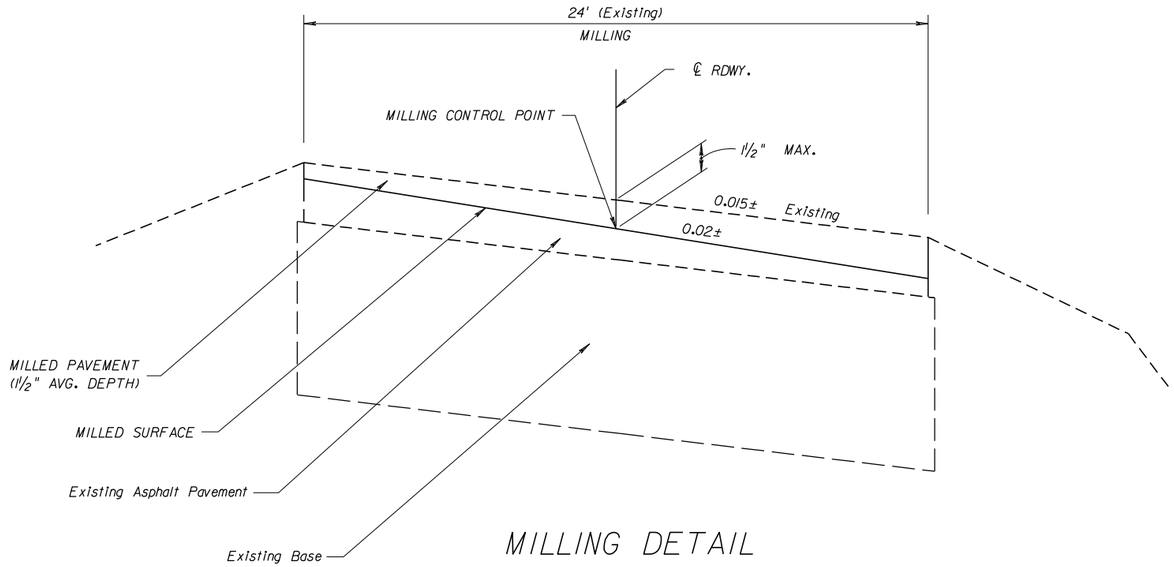
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

TYPICAL SECTION

SHEET NO.

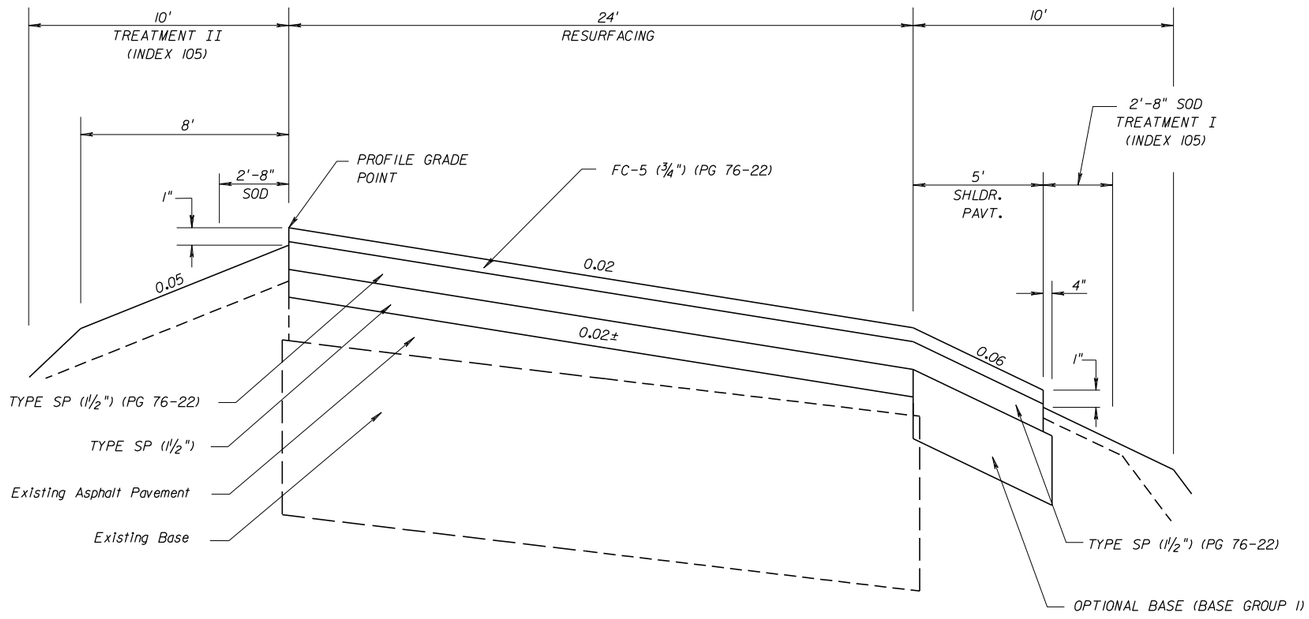
$USER$ $DATE$ $TIME$ $FILE$



MILLING DETAIL

WHEN CROSS SLOPE CORRECTION IS NECESSARY SPECIAL MILLING AND LAYERING DETAILS MUST BE PROVIDED TO SUPPLEMENT TYPICAL SECTION. THE NEED FOR AND LOCATION OF PROFILE GRADE POINTS WILL DEPEND ON SITE SPECIFIC CONDITIONS.

EXAMPLE OF CROSS SLOPE CORRECTION BY MILLING.



RESURFACING DETAIL

FOR STANDARD TYPICAL SECTION NOTES REFER TO EXHIBIT 6-1, THIS CHAPTER.

STA. 204+34.58 TO STA. 288+95.16

EXHIBIT TYP-9A
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

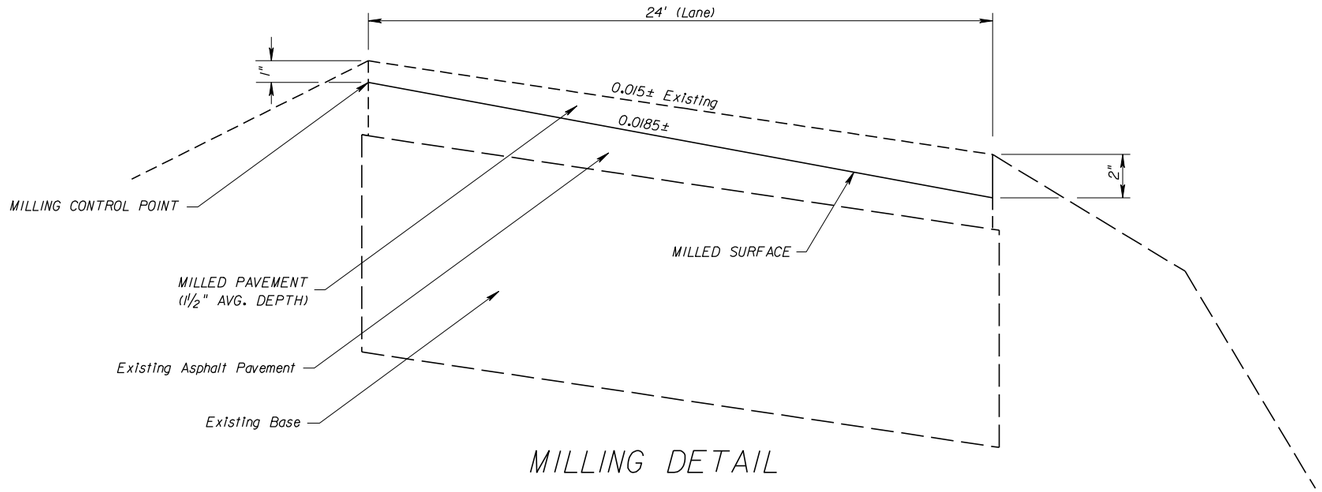
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

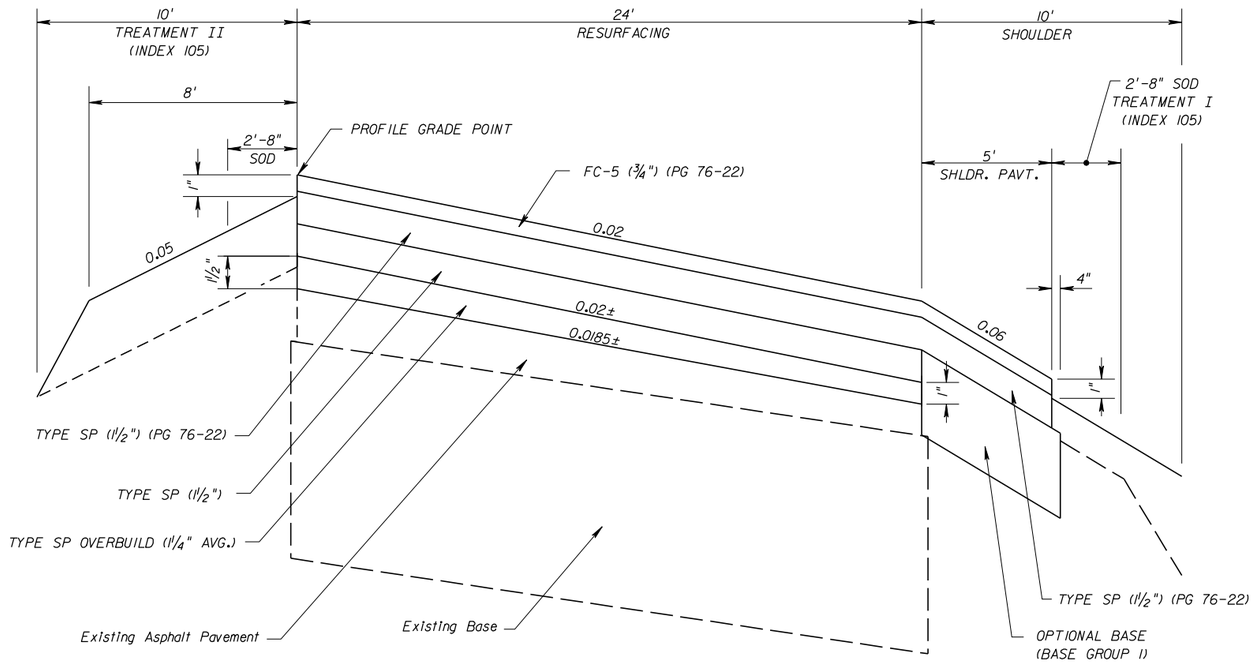
TYPICAL SECTION DETAILS

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$



MILLING DETAIL



OVERBUILD AND RESURFACING DETAIL

WHEN CROSS SLOPE CORRECTION IS NECESSARY SPECIAL MILLING, OVERBUILD AND LAYERING DETAILS MUST BE PROVIDED TO SUPPLEMENT TYPICAL SECTION. THE NEED FOR AND LOCATION OF PROFILE GRADES POINTS WILL DEPEND ON SITE SPECIFIC CONDITIONS.

EXAMPLE OF CROSS SLOPE CORRECTION BY MILLING AND OVERBUILD.

FOR STANDARD TYPICAL SECTION NOTES REFER TO EXHIBIT 6-1, THIS CHAPTER.

SUGGESTED CONSTRUCTION SEQUENCES SHOWN. OTHER SEQUENCES THAT MEET SPECIFICATIONS, THICKNESS AND CROSS SLOPE REQUIREMENTS MAY BE CONSIDERED BY THE ENGINEER.

STA. 316+53.67 TO STA. 527+82.00

EXHIBIT TYP-9B
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

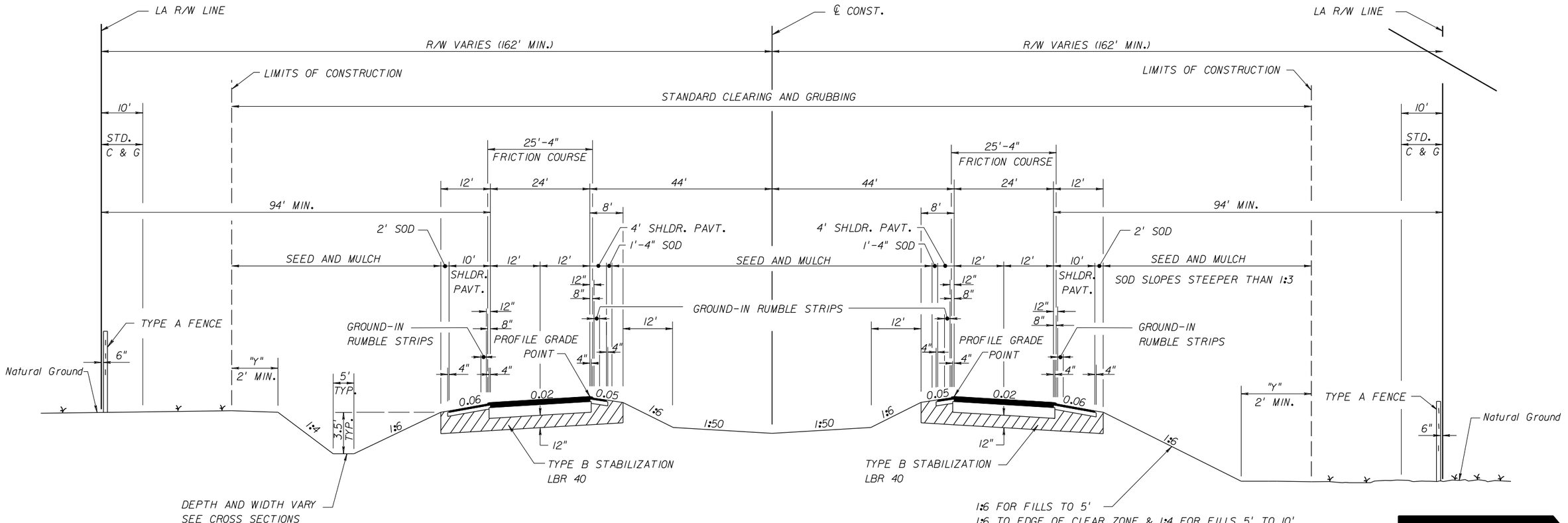
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

TYPICAL SECTION DETAILS

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$



TYPICAL SECTION
SR 8
STA. 567+25.67 TO STA. 1056+84.35

TRAFFIC DATA

CURRENT YEAR = 1998 AADT = 22300
ESTIMATED OPENING YEAR = 2000 AADT = 23300
ESTIMATED DESIGN YEAR = 2020 AADT = 51500
K = 9 % D = 56 % T = 10 % (24 HOUR)
DESIGN HOUR T = 5 %
DESIGN SPEED = 70 MPH

TRAFFIC DATA IS REQUIRED TO BE NOTED FOR CURRENT YEAR, OPENING YEAR, AND DESIGN YEAR. POSTED SPEED (MPH) IS OPTIONAL.

FOR STANDARD TYPICAL SECTION NOTES REFER TO EXHIBIT 6-1, THIS CHAPTER

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2½")
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (1½") (PG 76-22) AND
FRICTION COURSE FC-5 (¾") (PG 76-22)

MEDIAN SHOULDER PAVEMENT

OPTIONAL BASE GROUP 1 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (1½")
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (1½") (PG 76-22) AND
FRICTION COURSE FC-5 (¾") (PG 76-22)

OUTSIDE SHOULDER PAVEMENT

OPTIONAL BASE GROUP 1 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1½") AND
FRICTION COURSE FC-5 (¾") (PG 76-22)

NOTE:
HEIGHT OF FILL IS THE VERTICAL DISTANCE FROM THE EDGE OF THE OUTSIDE TRAVEL LANE TO TOE OF FRONT SLOPE.

4 LANE
INTERSTATE SYSTEM
NEW CONSTRUCTION
DIVIDED
RURAL
WITH PROJECTED
20 YR. AADT OF 1500
OR GREATER
DESIGN SPEED
70 MPH

"Y" THE AREA DISTURBED BY CONSTRUCTION VARIES.

EXHIBIT TYP-10
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

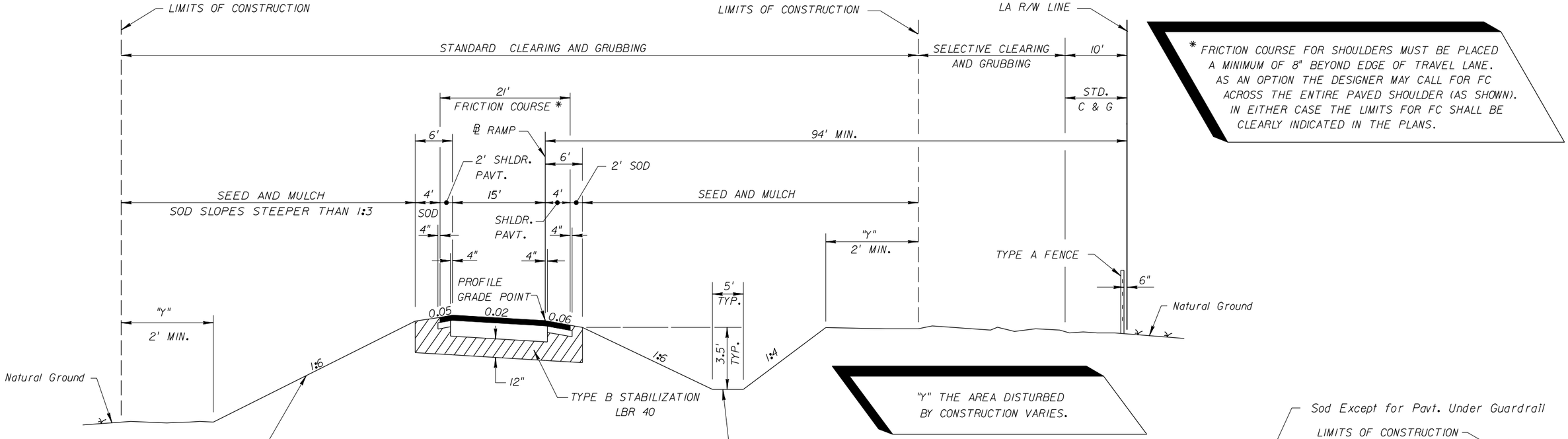
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

TYPICAL SECTIONS

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$



* FRICTION COURSE FOR SHOULDERS MUST BE PLACED A MINIMUM OF 8" BEYOND EDGE OF TRAVEL LANE. AS AN OPTION THE DESIGNER MAY CALL FOR FC ACROSS THE ENTIRE PAVED SHOULDER (AS SHOWN). IN EITHER CASE THE LIMITS FOR FC SHALL BE CLEARLY INDICATED IN THE PLANS.

NOTE:
HEIGHT OF FILL IS THE VERTICAL DISTANCE FROM THE EDGE OF THE OUTSIDE TRAVEL LANE TO TOE OF FRONT SLOPE.

FOR STANDARD TYPICAL SECTION NOTES REFER TO EXHIBIT 6-1, THIS CHAPTER.

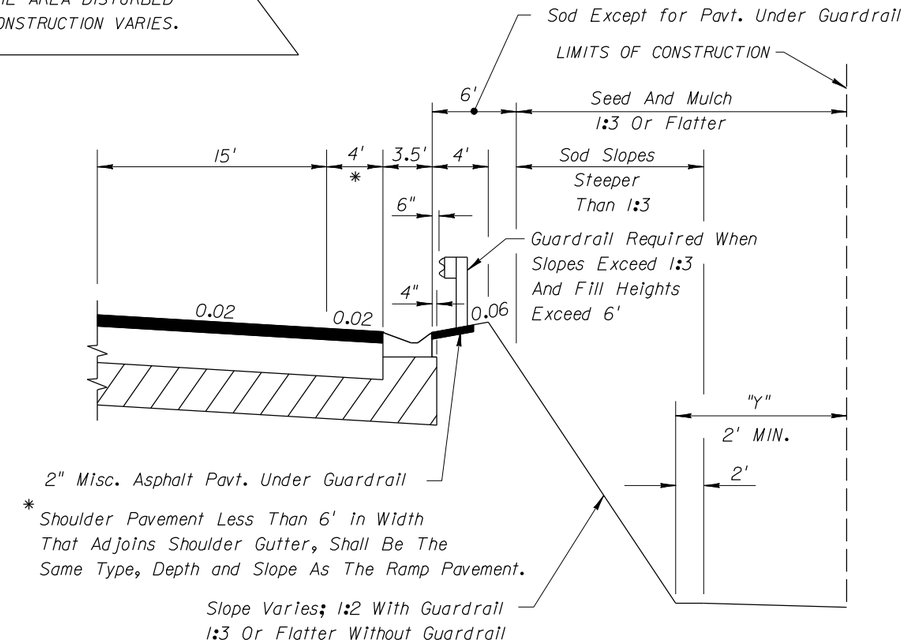
TYPICAL SECTION
RAMP "B"
STA. 415+67.28 TO STA. 421+23.68
(SINGLE LANE RAMP)

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2½") (PG 76-22) AND
FRICTION COURSE FC-5 (¾") (PG 76-22)

SHOULDER PAVEMENT

OPTIONAL BASE GROUP 1 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2½") (PG 76-22) AND
FRICTION COURSE FC-5 (¾") (PG 76-22)



SHOULDER PAVEMENT & SHOULDER GUTTER DETAIL
FOR SINGLE LANE RAMP

EXHIBIT TYP-11
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

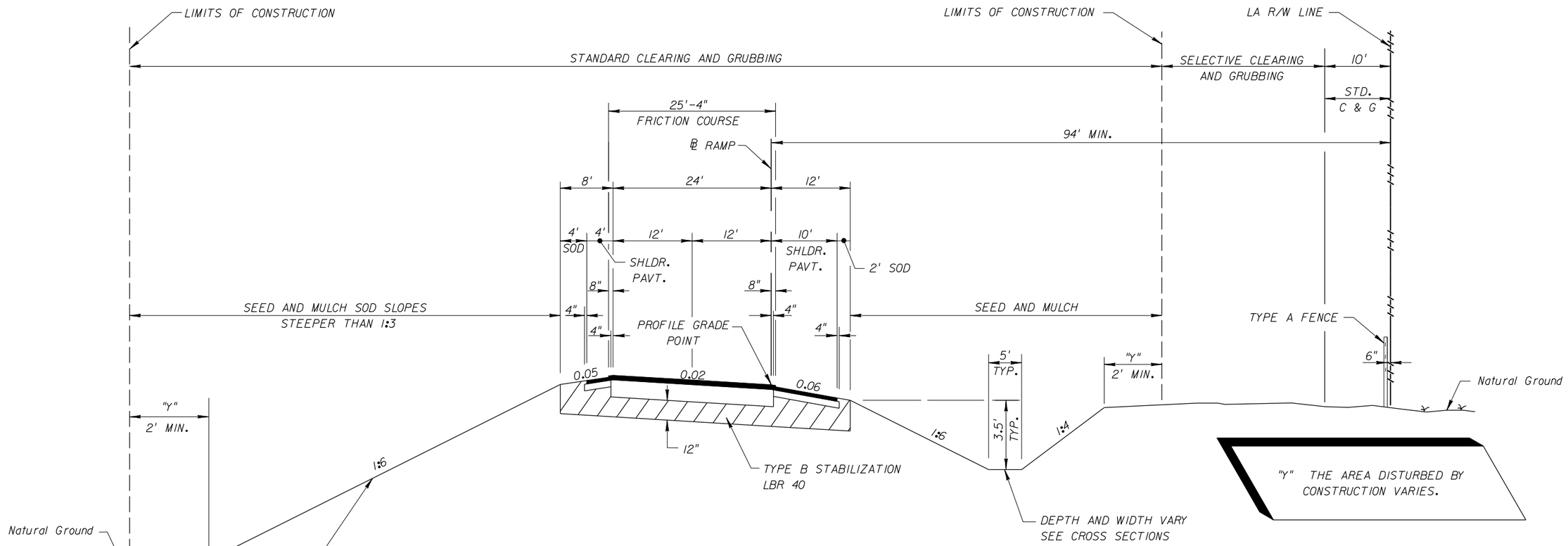
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

RAMP TYPICAL SECTION

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$



TYPICAL SECTION
RAMP "C"
STA. 623+28.64 TO STA. 629+13.78
(TWO LANE RAMP)

NOTE:
HEIGHT OF FILL IS THE VERTICAL DISTANCE FROM THE EDGE OF THE OUTSIDE TRAVEL LANE TO TOE OF FRONT SLOPE.

FOR STANDARD TYPICAL SECTION NOTES REFER TO EXHIBIT 6-1, THIS CHAPTER

NEW CONSTRUCTION

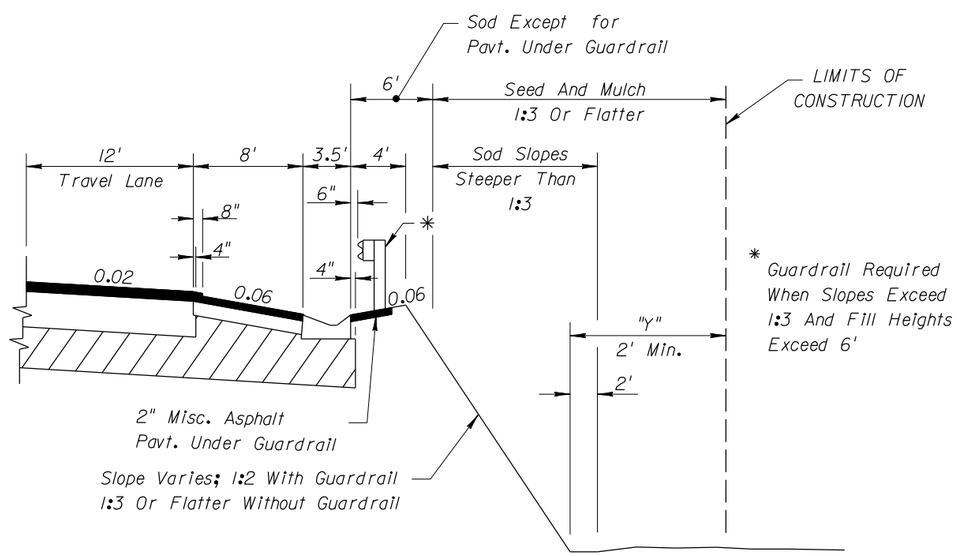
OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2") (PG 76-22) AND
FRICTION COURSE FC-5 (¾") (PG 76-22)

LEFT SHOULDER PAVEMENT

OPTIONAL BASE GROUP 1 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2") (PG 76-22) AND
FRICTION COURSE FC-5 (¾") (PG 76-22)

RIGHT SHOULDER PAVEMENT

OPTIONAL BASE GROUP 1 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") AND
FRICTION COURSE FC-5 (¾") (PG 76-22)



SHOULDER PAVEMENT & SHOULDER GUTTER DETAIL
MAINLINE AND MULTILANE RAMPS

EXHIBIT TYP-12
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

RAMP TYPICAL SECTION

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$

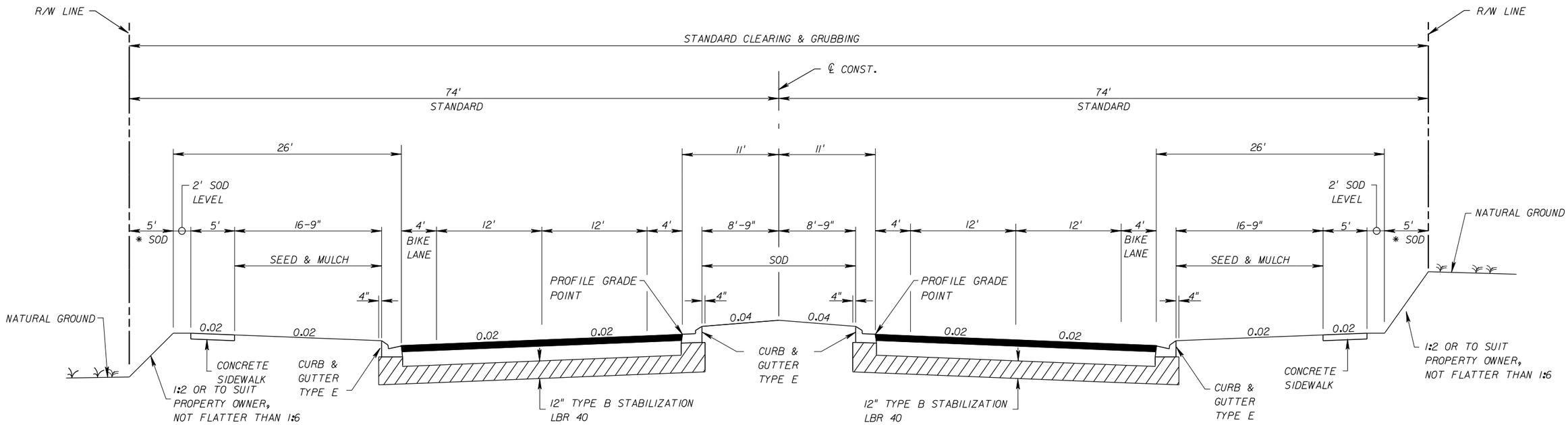
DESIGNATED BIKE LANES SHALL BE LABELED ON TYPICAL. UNDESIGNATED BIKE LANES SHOULD NOT BE LABELED ON TYPICAL.

IF LANDSCAPING IS DESIRED, TREES SHALL BE TYPES THAT WILL NOT HAVE AN EXPECTED GROWTH GREATER THAN 4" IN DIAMETER MEASURED 6" ABOVE THE GROUND.

SEED AND MULCH SLOPES FLATTER THAN 1:3

* SOD SLOPES 1:3 OR STEEPER

4-LANE
ARTERIAL
NEW CONSTRUCTION
DIVIDED
SUBURBAN
WITH DESIGNATED OR
UNDESIGNATED BIKE LANE
DESIGN SPEED 55 MPH



TRAFFIC DATA

CURRENT YEAR = 1999 AADT = 22800
ESTIMATED OPENING YEAR = 2002 AADT = 25800
ESTIMATED DESIGN YEAR = 2022 AADT = 30600
K = 6% D = 55% T = 2% (24 HOUR)
DESIGN HOUR T = 1%
DESIGN SPEED = 55 MPH

TRAFFIC DATA IS REQUIRED TO BE NOTED FOR CURRENT YEAR, OPENING YEAR AND DESIGN YEAR. POSTED SPEED (MPH) IS OPTIONAL.

FOR STANDARD TYPICAL SECTION NOTES REFER TO EXHIBIT 6-1, THIS CHAPTER.

SUBURBAN TYPICAL SECTION
SR 00 (SARA AVE.)
STA. 50+40.00 TO STA. 125+50.00

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (3½")
AND FRICTION COURSE FC-5 (¾") (RUBBER)

EXHIBIT TYP-13
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

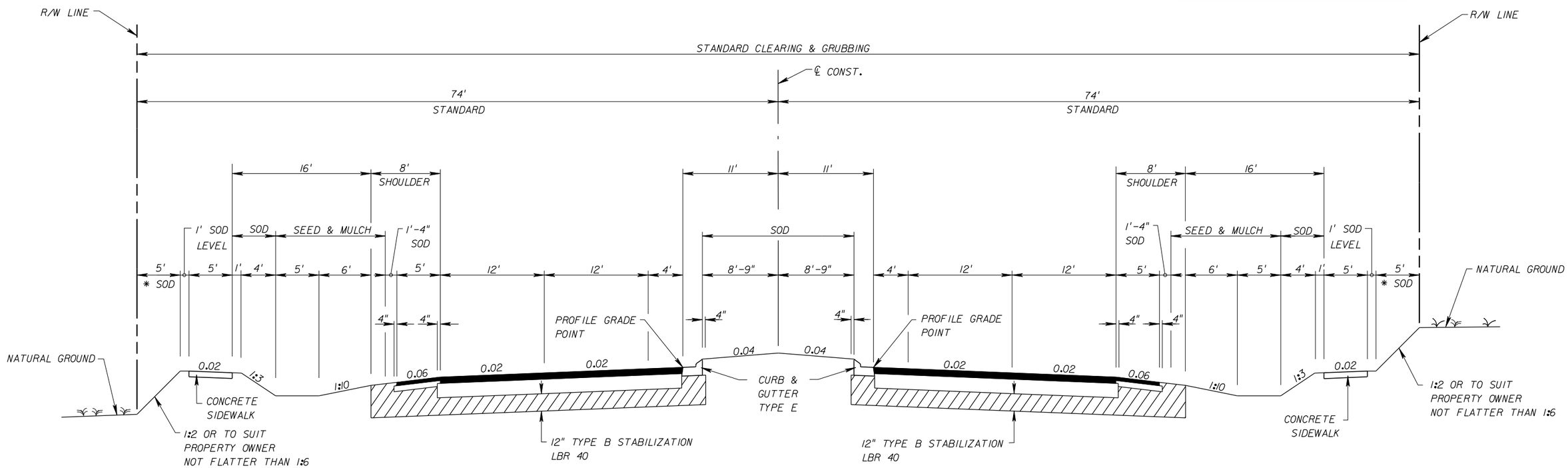
SUBURBAN TYPICAL SECTION

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$

DESIGNATED BIKE LANES SHALL BE LABELED ON TYPICAL. UNDESIGNATED BIKE LANES SHOULD NOT BE LABELED ON TYPICAL.

4-LANE
ARTERIAL
NEW CONSTRUCTION
DIVIDED
SUBURBAN
WITH DESIGNATED OR
UNDESIGNATED BIKE LANE
DESIGN SPEED 55 MPH OR LESS



TRAFFIC DATA

CURRENT YEAR = 1999 AADT = 22800
ESTIMATED OPENING YEAR = 2002 AADT = 25800
ESTIMATED DESIGN YEAR = 2022 AADT = 30600
K = 6% D = 55% T = 2% (24 HOUR)
DESIGN HOUR T = 1%
DESIGN SPEED = 55 MPH

TRAFFIC DATA IS REQUIRED TO BE NOTED FOR CURRENT YEAR, OPENING YEAR AND DESIGN YEAR. POSTED SPEED (MPH) IS OPTIONAL.

FOR STANDARD TYPICAL SECTION NOTES REFER TO EXHIBIT 6-1, THIS CHAPTER.

SUBURBAN TYPICAL SECTION
SR 00 (CODY ROAD)
STA. 100+40.00 TO STA. 225+50.00

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (3½")
AND FRICTION COURSE FC-5 (¾") (RUBBER)

SHOULDER PAVEMENT

OPTIONAL BASE GROUP 1 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1½")
AND FRICTION COURSE FC-5 (¾") (RUBBER)

SEED AND MULCH SLOPES FLATTER THAN 1:3

* SOD SLOPES 1:3 OR STEEPER

IF LANDSCAPING IS DESIRED, TREES SHALL BE TYPES THAT WILL NOT HAVE AN EXPECTED GROWTH GREATER THAN 4" IN DIAMETER MEASURED 6" ABOVE THE GROUND.

EXHIBIT TYP-14
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

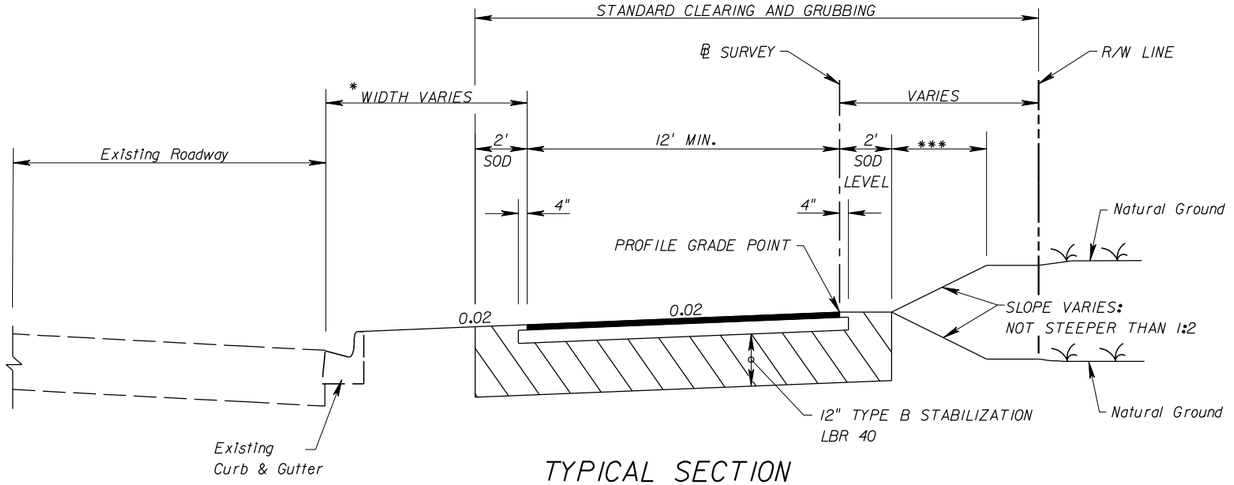
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

SUBURBAN TYPICAL SECTION

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$



* FOR ROADWAYS WITH CURBS, A MINIMUM SEPARATION OF 5 FEET MEASURED FROM THE OUTSIDE EDGE OF TRAVELED WAY TO THE INSIDE EDGE OF THE SHARED USE PATH SHOULD BE PROVIDED.

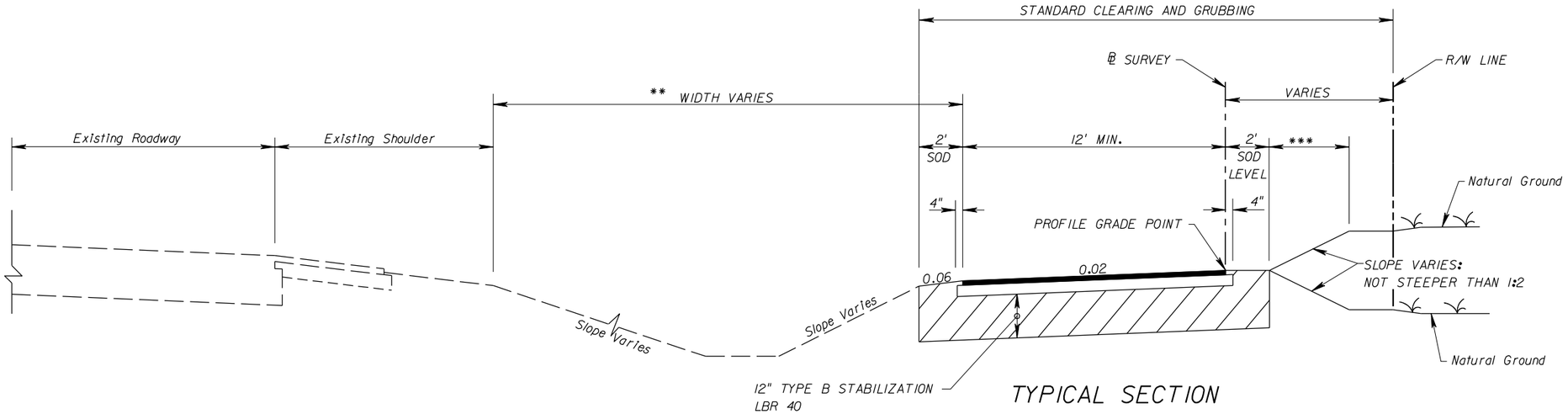
*** SEED,
SEED AND MULCH,
SOD OR SEED
SOD

TYPICAL SECTION
SHARED USE PATH
SR 00 (WILLOW WAY)
STA. 122+00.000 TO STA. 210+65.000

PATH

OPTIONAL BASE GROUP 1 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC A) (1")

NOTE:
THE DESIGN SPEED FOR SHARED USE PATHS IS 20 MPH.



** FOR ROADWAYS WITH FLUSH SHOULDERS, A MINIMUM SEPARATION OF 5 FEET MEASURED FROM THE OUTSIDE EDGE OF SHOULDER TO THE INSIDE EDGE OF THE SHARED USE PATH SHOULD BE PROVIDED.

TYPICAL SECTION
SHARED USE PATH
SR 00 (DEXTON HEIGHTS)
STA. 22+00.000 TO STA. 51+65.000

PATH

OPTIONAL BASE GROUP 1 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC A) (1")

EXHIBIT TYP-15
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

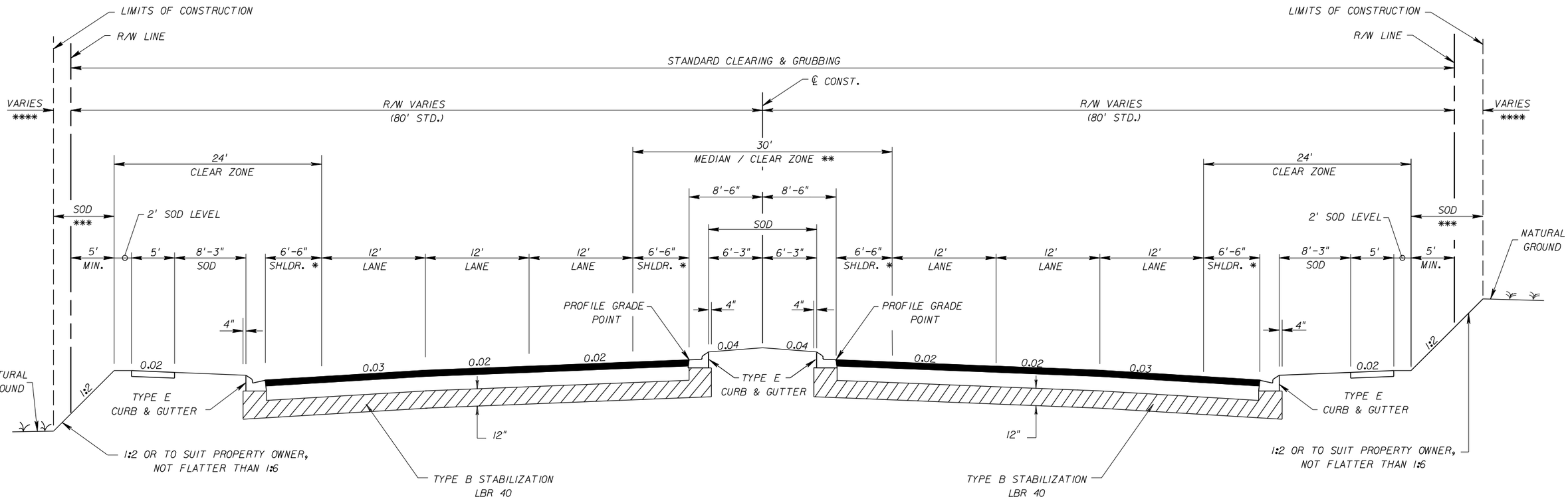
SHARED USE PATH

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$

**** IF LIMITS OF CONSTRUCTION EXCEED RIGHT OF WAY, A PROPERTY AGREEMENT IS REQUIRED.

6-LANE
ARTERIAL
NEW CONSTRUCTION
DIVIDED
URBAN
DESIGN SPEED 50 MPH



TRAFFIC DATA

CURRENT YEAR = 1998 AADT = 22800
ESTIMATED OPENING YEAR = 2000 AADT = 25800
ESTIMATED DESIGN YEAR = 2020 AADT = 30600
K = 6% D = 55% T = 2% (24 HOUR)
DESIGN HOUR T = 1%
DESIGN SPEED = 50 MPH

TRAFFIC DATA IS REQUIRED TO BE NOTED FOR CURRENT YEAR, OPENING YEAR AND DESIGN YEAR.

FOR STANDARD TYPICAL SECTION NOTES REFER TO EXHIBIT 6-1, THIS CHAPTER.

TYPICAL SECTION
SR 00 (SOUTH INDEPENDENCE STREET)
STA. 401+30.00 TO STA. 788+66.00

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (3½")
AND FRICTION COURSE FC-5 (¾") (RUBBER)

* PROVIDES FOR 8' OF USABLE SHOULDER

** THE 30' MEDIAN AREA PROVIDES SUFFICIENT WIDTH FOR:
- 24' CLEAR ZONE
- DUAL LEFT TURN LANES (11' lanes, 4' separator in median shoulder)
- DIRECTIONAL MEDIAN OPENING (4' separators in median shoulder)

*** SEED,
SEED AND MULCH,
SOD OR SEED
SOD

EXHIBIT TYP-16
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

TYPICAL SECTION

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$

SUMMARY OF SODDING

LOCATION STA. TO STA.	SIDE	P L	P W	P SY	F L	F W	F SY	FIELD BOOK REFERENCE
NB I-00								
570+00 - 580+62	MED	1062	1.33	157				
570+00 - 574+57	RT	457	1.33	68				
575+45 - 576+80	RT	135	1.33	20				
576+80 - 579+95	RT	315	56	1960				
579+95 - 580+62	RT	67	32	238				
580+62 - 586+37	MED	575	1.33	85				
580+62 - 586+37	RT	575	1.33	85				
SB I-00								
570+00 - 580+62	MED	1062	1.33	157				
570+00 - 574+57	LT	457	1.33	68				
575+45 - 577+25	LT	180	1.33	27				
577+25 - 580+34	LT	309	48	1648				
580+34 - 580+62	LT	28	37	115				
580+62 - 586+37	MED	575	1.33	85				
580+62 - 586+37	LT	575	1.33	85				
RAMP A								
182+99 - 187+24	LT	425	1.33	63				
180+87 - 187+74	RT	687	1.33	102				
RAMP B								
276+62 - 281+75	LT	513	1.33	76				
274+47 - 280+29	RT	582	1.33	86				
RAMP C								
382+45 - 386+88	RT	443	1.33	65				
381+95 - 388+30	LT	635	1.33	94				
RAMP D								
481+05 - 485+63	LT	458	1.33	68				
480+64 - 487+31	RT	667	1.33	99				
DRAINAGE STRUCTURES				807				
PAVED DITCHES				278				
TOTAL				6536				

SUMMARY OF SIDEDRAIN & MITERED END SECTIONS

	LOCATION STA. TO STA.	SIDE	PIPE LENGTH (LF) 15"	MES (EA)	18"	MES (EA)	24"	MES (EA)	30"	MES (EA)	36"	MES (EA)
P	150+10 - 150+50	RT	40	2								
F												
P	160+85 - 161+21	LT			36	2						
F												
P	176+36 - 176+78	LT							42	2		
F												
P	181+46 - 181+98	RT					52	2				
F												
P	192+46 - 192+82	LT	36	2								
F												
P	194+50 - 195+14	RT									64	2
F												
P												
F												
P	TOTAL		76	4	36	2	52	2	42	2	64	2
F												
P												
F												
P												
F												

EXHIBIT SQ-1
Date: 1/1/06

REVISIONS DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

SUMMARY OF QUANTITIES

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$

SUMMARY OF GUARDRAIL

LOCATION		GUARDRAIL (LF)								END ANCHORAGE ASSEMBLIES (EA)								REMARKS	FIELD BOOK REFERENCE
STATION	SIDE	ROADWAY		ROADWAY, DOUBLE FACE		PEDESTRIAN SAFETY TREATMENT		RUBRAIL		FLARED		PARALLEL		TYPE II		TYPE CRT			
		P	F	P	F	P	F	P	F	P	F	P	F	P	F	P	F		
FROM 600+50	RT	87.5				From		From 600+70		1									
TO 601+37						To		To 601+20						1					
FROM 600+10	LT	125.0				From		From						1					
TO 601+35						To		To								1			
FROM 602+25	RT	100.0				From 602+30		From		1									
TO 603+25						To 603+00		To						1					
FROM 600+50	MED			275.0		From		From						1					
TO 603+25						To		To						1					
FROM 604+25	RT	62.5				From		From		1									
TO 604+87						To		To						1					
FROM 602+45	LT	75.0				From		From						1					
TO 603+20						To		To				1							
FROM						From		From											
TO						To		To											
TOTAL		450		275						3		1		7		1			

SUMMARY OF DITCH PAVEMENT AND SODDING

LOCATION STA. TO STA.	SIDE	RIPRAP (SAND CEMENT) CY		RIPRAP (RUBBLE) TN		CONCRETE SY		SODDING SY		REMARKS	FIELD BOOK REFERENCE
		P	F	P	F	P	F	P	F		
128+17	LT	21.6									
128+52	RT	24.2									
137+12 (S-2)	LT					26		8			
156+14 (S-6)	LT					30		9			
158+00 (S-7)	LT/RT					96		42			
161+20 (S-9)	LT					40		10			
168+40 (S-12)	RT					108		12			
172+87 (S-15)	RT					56		10			
180+12 (S-17)	LT					20		8			
182+57 (S-20)	RT					20		7			
TOTAL		45.8				396		106			

WHEN A PEDESTRIAN SAFETY TREATMENT, AND/OR RUB RAIL TREATMENT, IS TO BE PROVIDED FOR A RUN OF GUARDRAIL, THE BEGINNING AND END STATION IS TO BE NOTED AS SHOWN IN THE SUMMARY OF GUARDRAIL ABOVE. OTHERWISE, THESE COLUMNS MAY BE DELETED.

EXHIBIT SQ-2
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

SUMMARY OF QUANTITIES

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$

SUMMARY OF EARTHWORK

DESCRIPTION	P CY	F CY
ROADWAY EXCAVATION, MAINLINE	10,000	
ROADWAY EXCAVATION, ADAMS ST.	800	
REGULAR EXCAVATION, POND #1	1,005	
REGULAR EXCAVATION FROM LATERAL DITCHES	5,000	
TOTAL REGULAR EXCAVATION	16,805	
EMBANKMENT, MAINLINE	20,000	
EMBANKMENT, ADAMS ST.	7,000	
TOTAL EMBANKMENT	27,000	
SUBSOIL EXCAVATION, MAINLINE	2,080	
SUBSOIL EXCAVATION, ADAMS ST.	1,100	
TOTAL SUBSOIL EXCAVATION	3,180	

Earthwork has been calculated using the _____ base option.
If another option is constructed, there shall be no revision to the earthwork quantities for which payment is made by Plan Quantity.

FOR PROJECTS WITH CROSS SECTIONS

SUMMARY OF EARTHWORK

DESCRIPTION	P CY	F CY
FILL, MAINLINE	253	
FILL, GUARDRAIL LOCATIONS	70	
FILL, CROSS DRAINS	100	
SUB-TOTAL FILL	423	
FILL ADJUSTMENT (20%) (423 x 0.20)	+85	
SUB-TOTAL WITH FILL ADJUSTMENT	508	
TRUCK ADJUSTMENT (25%) (571 x 0.25)	+127	
TOTAL BORROW EXCAVATION	635	

FOR PROJECTS WITHOUT CROSS SECTIONS

Adjustment percentages shown are for example only.
Contact District Materials Office or Construction
for actual percentages to be used for each project.

EXHIBIT SQ-3
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

SUMMARY OF QUANTITIES

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$

SUMMARY OF PERMANENT CRASH CUSHIONS

STATION	SIDE	DESIGN SPEED	OPTIONS ALLOWED	TRANSITION REQUIRED Y/N	PAY ITEMS							
					544-75-40		544-75-22		544-75-9		544-75-14	
					P	F	P	F	P	F	P	F
100+50	Rt	60	QuadGuard	Y	1							
			TAU II	Y								
			TRACC	Y								
103+10	Med	60	WideTRACC	Y			1					
110+65	Med	60	BRAKEMASTER	N					1			
125+23	Rt	70	QuadGuard HS	Y	1							
			TAU II	Y								
			TRACC	Y								
1175+15	Rt	35	QuadGuard	Y							1	
1321+37	Lt	50	QuadGuard	Y	1							
			TAU II	Y								
				Total	3		1		1		1	

EXHIBIT SQ-4
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

SUMMARY OF QUANTITIES

SHEET NO.

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CROSS DRAIN OPTIONAL TYPE ROUND SHAPE 15"	CROSS DRAIN ROUND SHAPE 18"	CROSS DRAIN ROUND SHAPE 24"	CROSS DRAIN ROUND SHAPE 30"	CROSS DRAIN ROUND SHAPE 48"	CROSS DRAIN ROUND SHAPE 60"	CROSS DRAIN OTHER SHAPE 24"	CROSS DRAIN OTHER SHAPE 30"	STORM DRAIN OPTIONAL TYPE 15"	STORM DRAIN 18"	STORM DRAIN 24"	STORM DRAIN 30"	STORM DRAIN 36"	STORM DRAIN 42"	GUTTER DRAIN OPT. TYPE 15"	CURB INLETS P-1 <10'	CURB INLETS P-2 <10'	CURB INLETS J-1 <10'	CURB INLETS J-2 <10'	MH J-7 <10'	DITCH BOTTOM INLETS A <10'	DITCH BOTTOM INLETS B <10'	DITCH BOTTOM INLETS C <10'	DITCH BOTTOM INLETS D <10'	GUTTER INLET S <10'	GUTTER INLET S >10'	FLARED END SECTION 15"	FLARED END SECTION 18"	FLARED END SECTION 30"	MITERED END SECTION 18"	MITERED END SECTION 24"	SOD SY	CLASS I CONC. CY	CLASS II CONC. CY	REINF. STEEL Lbs.	SAND CEMENT RIPRAP CY	REMARKS
P	1	146+50	RT	Pipe	1										12'																											Const. Conc. Collar
F																																										
P	2	146+54.12	LT	Pipe	1										103'																											
F																																										
P	3	147+33.80	RT	Inlet, Pipe	1									89'							1																					
F																																										
P	4	147+61	LT	Inlet, Pipe	1													78'						1																		
F																																										
P	5	148+15.96	LT	Inlet, Pipe	1									93'								1																				Mod. Height
F																																										
P	6	148+45.30	RT	MH, Pipe	1													28'							1																	Alt. A, Brick
F																																										
P	7	148+77.55	LT	Inlet, Pipe	1													52'						1																		RCP CLASS II
F																																										
P	8	148+77.55	RT	EW, Pipe	1														16'																		43	6.33				
F																																										
P	9	149+35	RT	Inlet, Pipe	1												185'						1																			
F																																										
P	10	149+35	LT	Inlet, Pipe	1										53'						1																					
F																																										
P	11	454+18 & Leg A	LT	MES, Pipe	1										76'																				1		9					
F																																										
P	12	150+27	RT	EW, Pipe	1											80'																					24				2.9	RCP CLASS III
F																																										
P	13	203+00	RT	FES, Pipe	1								96'																								32					
F																																										
P	14	5+00 Ramp A	LT	EW, Pipe, Inlet	1				72'																					1							62	3.26				
F																																										
P	14A	5+00 Ramp A	RT	Pipe, EW	1							50'																									62	3.26				
F																																										
P	15	15+00 Ramp A	RT	Inlet, Pipe, EW	1															32'											1						17	0.67				
F																																										
P	16	214+00	LT	EW, Pipe	2					320'																											97	10.48				Const. Collar, Pipe Ahead
F																																										
P	17	214+14	RT	Inlet, Pipe	1		8'																					1									6					
F																																										
P	18	219+00	LT	Inlet, Pipe, FES	1		62'																						1				1				17					
F																																										
P	19	229+00	RT	EW, Pipe, Inlet	1						102'																1										140		11.3	695		
F																																										
P	19A	229+00	LT	Pipe, EW	2						196'																										172		13.7	824		
F																																										
P	19B	229+00	LT	Pipe	1						204'																															
F																																										
P	20	229+42	RT	MES, Pipe	1			40'																												1	14					Const. Collar
F																																										
P	21	240+00	LT	MES, Pipe, Inlet	1		86'																					1							1		15					
F																																										
P	22	260+00	RT	FES, Pipe, Inlet	1	87'																				1						1					19					
F																																										
P	23	281+00	LT	Inlet, Pipe, FES	1	89'																				1						1					19					
F																																										
P																																										
F																																										
P																																										
F																																										
P																																										
F																																										
P																																										
F																																										
P																																										
F																																										
P																																										
F																																										
P																																										
F																																										
SHEET TOTALS - PLAN QUANTITY						176'	156'	40'	72'	320'	502'	50'	96'	182'	244'	80'	185'	158'	16'	32'	2	1	1	2	1	2	1	2	1	1	1	2	1		2	1	748	24.00	25.00	1519	2.9	
SHEET TOTALS - FINAL QUANTITY																																										

EXHIBIT SDS-1a
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO.

$DATE$ $TIME$ $FILE$

GENERAL NOTES

1. The Contractor may use any of the optional pipe materials tabulated for a given structure. Only the material options tabulated for a given structure can be used.

2. Adjustment to the bid quantities, prices and payment will not be allowed due to increase or decrease in structure size, shape, length, width, depth or accessory construction necessary to accommodate the use of an optional pipe material other than the "plotted" option; likewise there will be no added or reduced compensation for structure alterations required to relieve utility conflicts which arise from the use of an optional material other than the "plotted" option.

3. Adjustment to the bid quantities, prices and payment will not be allowed due to increased or decreased excavation, bedding, borrow, backfilling, compaction, special installation requirements or disposal of excess materials due to use of any of the pipe optional materials. Likewise, adjustment in the quantities, prices and payment will not be allowed due to differences in end treatment size or types, pipe length, alternate jointing and connecting materials, saddles, cradles, filter fabrics, shoring or similar features due to the use of an optional material other than the "plotted" option.

4. If adjustments are required due to plan errors or omissions or authorized field changes, the "plotted" material and not the material elected by the Contractor would be used to establish new pay quantities.

5. The Contractor shall notify the Department in writing as to which optional pipe materials he chooses to use at the preconstruction conference. Once identified the Contractor may not change pipe material selected without the approval of the Engineer.

6. Pipe shapes other than round (Elliptical/Arch) are summarized and paid for using equivalent round pipe diameter.

THIS EXAMPLE SHOULD BE USED WHEN PIPE FLOW LINES, AND/OR SIZES FOR INDIVIDUAL OPTIONS ARE NOT THE SAME (SEE STRUCTURE NO. 14) OR WHEN NUMEROUS EXCEPTIONS OCCUR.

STR. NO.	DSL YEARS	SIZE (Inches)	PLOTTED	MATERIAL & THICKNESS	FL	FL	AS BUILT	REMARKS
1	100	18	X	SRCP CLASS II				
2	100	18	X	SRCP CLASS II				
3	100	15	X	SRCP CLASS II	7.0			
				SRAP				
4	100	36	X	SRCP CLASS II	5.7			
				SRSP, 12 GA.				
				SRAP, 12 GA.				
				SRASP, 16 GA.				
5	100	15	X	SRCP CLASS II	7.7			
				SRAP				
6	100	36	X	SRCP CLASS II	6.4	5.7		
				SRSP, 12 GA.				
				SRAP, 12 GA.				
				SRASP, 16 GA.				
7	100	36	X	SRCP CLASS II	6.5	6.4		
8	100	42	X	SRCP CLASS II	7.9	7.7		
				SRAP				
				SRSP				
9	100	30	X	SRCP CLASS II	6.8	6.5		
				SRAP, 16 GA.				
				SRSP, 16 GA.				
10	100	18	X	SRCP CLASS II	7.6	7.2		
				SRAP, 16 GA.				
				SRSP, 14 GA.				
				SRASP, 16 GA.				
11	100	18	X	SRCP CLASS II	8.0	7.6		
				SRAP, 16 GA.				
				SRSP, 14 GA.				
				SRASP, 16 GA.				
12	100	24	X	SRCP CLASS III				ENDWALL
13	100	24x38	X	ERCP CLASS II	10.4	10.3		
		35x24		ASPA, 14 GA.				
14	50	30	X	SRCP CLASS III	6.0	5.9		
				SRASP 14 GA.				
				SRAP, 14 GA.				
				PEP-1				
				PVC				
		36		CAP, 16 GA.	5.9	5.8		
		36		CSP, 16 GA. BIT. COATED	5.9	5.8		
14A	50	19x30	X	ERCP CLASS III	5.9	5.8		
		28x20		ASPA 14 GA.				

EXHIBIT SDS-2a
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		_ _ _

OPTIONAL MATERIALS TABULATION

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$

GENERAL NOTES

1. The Contractor may use any of the optional pipe materials tabulated for a given structure. Only the material options tabulated for a given structure can be used.

2. Adjustment to the bid quantities, prices and payment will not be allowed due to increase or decrease in structure size, shape, length, width, depth or accessory construction necessary to accommodate the use of an optional pipe material other than the "plotted" option; likewise there will be no added or reduced compensation for structure alterations required to relieve utility conflicts which arise from the use of an optional material other than the "plotted" option.

3. Adjustment to the bid quantities, prices and payment will not be allowed due to increased or decreased excavation, bedding, borrow, backfilling, compaction, special installation requirements or disposal of excess materials due to use of any of the pipe optional materials. Likewise, adjustment in the quantities, prices and payment will not be allowed due to differences in end treatment size or types, pipe length, alternate jointing and connecting materials, saddles, cradles, filter fabrics, shoring or similar features due to the use of an optional material other than the "plotted" option.

4. If adjustments are required due to plan errors or omissions or authorized field changes, the "plotted" material and not the material elected by the Contractor would be used to establish new pay quantities.

5. The Contractor shall notify the Department in writing as to which optional pipe materials he chooses to use at the preconstruction conference. Once identified the Contractor may not change pipe material selected without the approval of the Engineer.

6. Pipe shapes other than round (Elliptical/Arch) are summarized and paid for using equivalent round pipe diameter.

THIS EXAMPLE SHOULD BE USED WHEN MATERIAL OPTIONS ARE THE SAME FOR THE DIFFERENT PIPE SIZES AND WHEN LIMITED EXCEPTIONS ARE NOTED.

STRUCTURE	SIZE (Inches)	MATERIAL	PLOTTED	AS BUILT	REMARKS
	15	SRCP CLASS II	X		
		SRAP, 14 GA.			
EXCEPTION	18	SRCP CLASS II	X		
S-1 & S-2		SRAP, 16 GA.			
SRCP CLASS II		SRSP, 14 GA.			
ONLY		SRASP, 16 GA.			
EXCEPTION	24	SRCP CLASS III	X		
S-12		SRAP, 16 GA.			
SRCP CLASS III		SRSP, 16 GA.			
ONLY		SRASP, 16 GA.			
	30	SRCP CLASS III	X		
		SRAP, 14 GA.			
		SRASP, 14 GA.			
EXCEPTION	36	SRCP CLASS II	X		
S-7		SRAP, 14 GA.			
SRCP CLASS II		SRSP, 12 GA.			
ONLY		SRASP, 16 GA.			
EXCEPTION	24x38	ERCP, CLASS II	X		
S-13	35x24	ASPA, 14 GA.			
EXCEPTION	19x30	ERCP, CLASS III	X		
S-14-A	28x20	ASPA, 14 GA.			

EXHIBIT SDS-3a
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

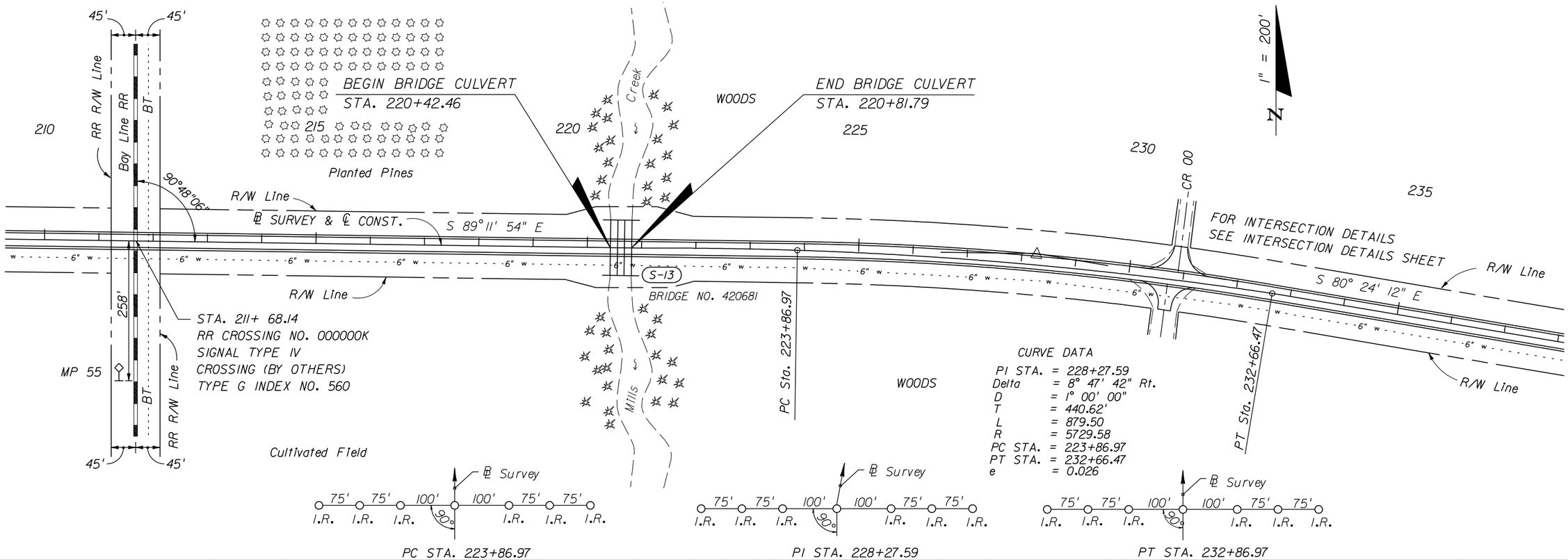
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

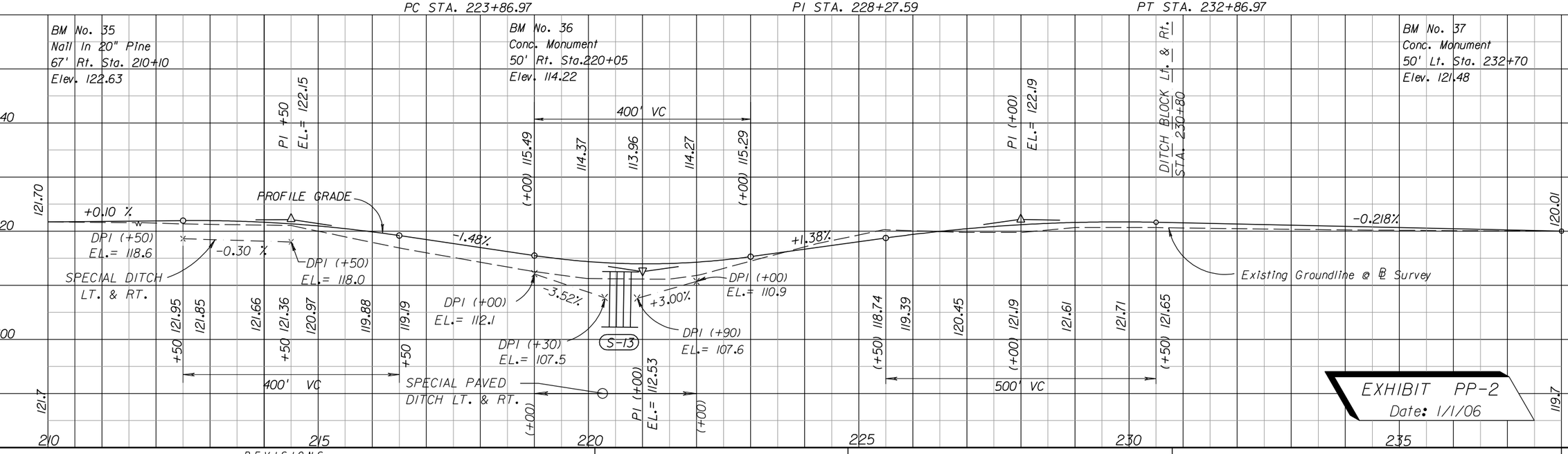
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		_ _ _

OPTIONAL MATERIALS TABULATION

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$





REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

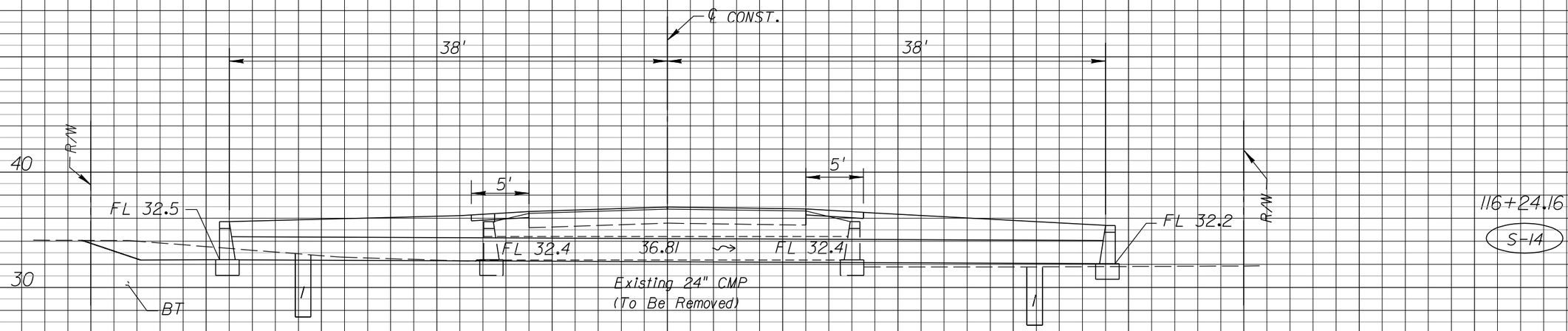
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

PLAN-PROFILE

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$



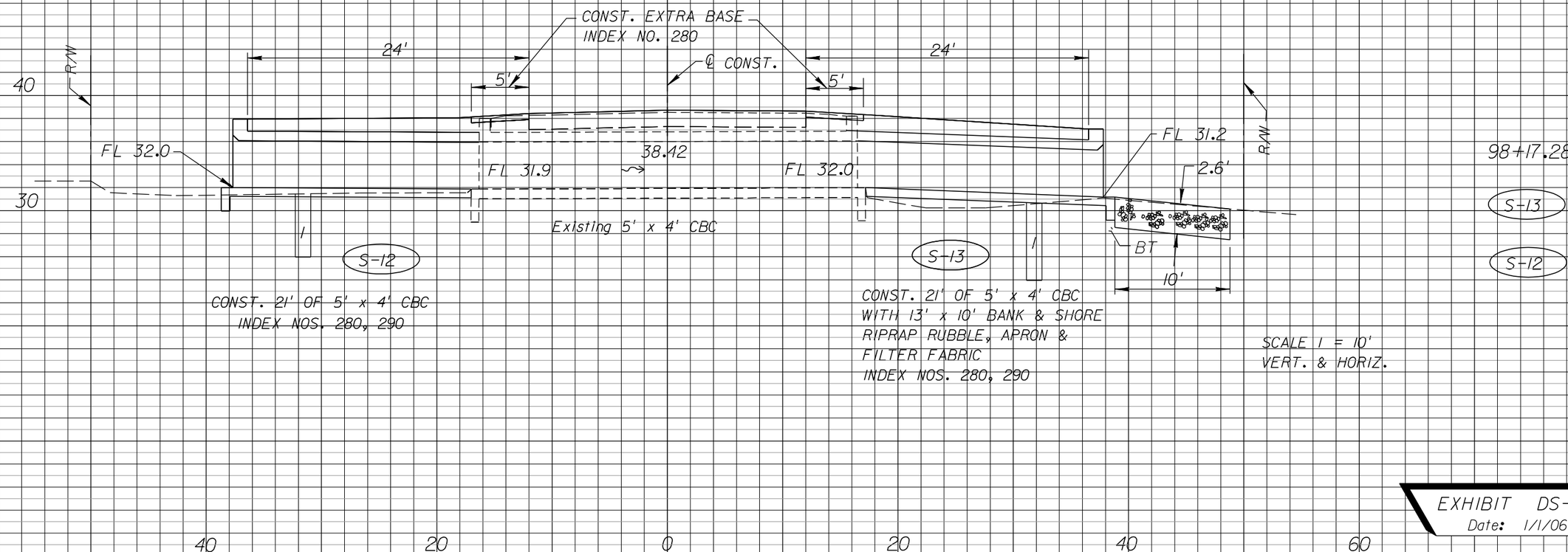


EXHIBIT DS-2
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

DRAINAGE STRUCTURES

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH

DATE OF SURVEY : 2/15/95 -5/1/95
SURVEY MADE BY : HARTFORD TESTING COMPANY
SUBMITTED BY : LARRY BALLARD, P.E.

FINANCIAL PROJECT ID : _____

DISTRICT : 3
ROAD NO : S.R. 29
COUNTY : HOUSTON

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STA. : 400+00 SURVEY ENDS STA. : 554+00

	ORGANIC CONTENT			SIEVE ANALYSIS RESULTS % PASS						ATTERBERG LIMITS (%)					CORROSION TEST RESULTS				
STRATUM NO.	NO. OF TESTS	% ORGANIC	MOISTURE CONTENT	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX	AASHTO GROUP	DESCRIPTION	NO. OF TESTS	RESISTIVITY ohms-cm	CHLORIDE ppm	SULFATES ppm	pH
1												N.P.		ROCK BASE ASPHALTIC CONCRETE					
2				4	98-87	93-77	82-59	55-44	10-3			N.P.	A-3	SUBGRADE (GRAY & TAN SAND W/TRACE SILT, L.R. & SHELL)					
3	7	3.5-2.5		7	100-94	94-86	71-65	45-34	21-15			N.P.	A-2-4	FILL (DARK BROWN SAND W/SOME SILT & TRACE L.R.)	7	43000-34000	60-40	72-18	8.3-6.4
4	3	1.5-1.9		4	100-84	93-71	90-60	82-53	45-37	4	38-25	9-5	A-4	GRAY AND BROWN SILTY SAND W/TRACE CLAY AND L.R.	4	26000-23000	120-60	96-84	8.9-8.4
5				3	100	100-99	98-96	80-75	34-30	3	44-42	15-11	A-2-7	TAN AND LIGHT GRAY SILTY SAND W/SOME CLAY AND TRACE SHELL	3	8000-6600	120-60	216-156	8.2-7.5
6	3	18.2-40	20-60						46-30	3	33-25	15-10	A-8	MUCK (DARK BROWN SILTY SAND W/SOME CLAY)					
7				3	100	92-88	79-73	69-60	55-51	3	61-55	53-38	A-7	YELLOW AND GRAY SILTY SAND CLAY					
8	3	15.5- 20	20-58	3	100-99	99-97	97-88	80-77	15-10			N.P.	A-8	MUCK (BROWN SAND W/SOME ORGANIC AND TRACE SHELL)	3	35000-20000	120	120	5.2-4.6

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE MAKE FINAL CHECK AFTER GRADING

▽ - WATER TABLE ENCOUNTERED

GNE - GROUND WATER NOT ENCOUNTERED

The material from Stratum Number 1 is Rock Base under Asphaltic Concrete.

The material from Stratum Number 2 appears satisfactory for use in the embankment when utilized in accordance with Index 505.

The material from Stratum Number 3 appears satisfactory for use in the embankment when utilized in accordance with Index 505. However, this material is likely to retain excess moisture and be difficult to dry and compact. It should be used in the embankment above the water level existing at the time of construction. This material may not be used in the subgrade portion of the roadbed due to its organic content.

The materials from Stratum Numbers 4 and 5 are plastic materials and shall be removed in accordance with Index 500. They may be placed above the existing water level at the time of construction, to within 4 feet of the proposed base. They should be placed uniformly in the lower portion of the embankment for some distances along the project rather than full depths for short distances.

The material from Stratum Numbers 6 and 8 is ORGANIC/A-8 material and shall be removed in accordance with Index 500.

The material from Stratum Number 7 is Highly Plastic material and shall be removed in accordance with Index 500. It may be used within the project limits as indicated in Index 505 only when excavated within the project limits and is not to be used when obtained from outside the project limits.

EXHIBIT SS-1
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

ROADWAY SOILS SURVEY

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$

SELECTIVE CLEARING AND GRUBBING - GENERAL NOTES

(1) DESIGNATES AREAS TO REMAIN NATURAL. NO CLEARING OR GRUBBING IN THESE AREAS. NO EQUIPMENT SHALL ENTER THESE AREAS. NO STAGING, STORAGE OR DUMPING IN THIS AREA.

(2) DESIGNATES AREAS WHERE TREES AND STUMPS OVER 3" IN DIAMETER SHALL BE CUT FLUSH WITH THE GROUND OR REMOVED, AND ALL UNDERGROWTH IS TO REMAIN NATURAL. NO EQUIPMENT SHALL ENTER THESE AREAS THAT WOULD IN ANY WAY DAMAGE THE PLANT MATERIAL TO REMAIN. NO STAGING, STORAGE OR DUMPING IN THIS AREA.

(3) DESIGNATES AREAS WHERE TREES OF 3" IN DIAMETER OR GREATER ARE TO REMAIN AND ALL UNDERGROWTH IS TO BE REMOVED. ONLY RUBBER TIRE EQUIPMENT SHALL ENTER THESE AREAS, AND REMAINING TREES SHALL BE PROTECTED FROM ROOT AND TRUNK DAMAGE. NO STAGING, STORAGE OR DUMPING IN THIS AREA.

(4) DESIGNATES AREAS WHERE THE TYPE AND EXTENT OF CLEARING AND GRUBBING SHALL BE DETERMINED BY THE ENGINEER ACCORDING TO FIELD CONDITIONS.

(5) DESIGNATES AREAS THAT SHALL REMAIN NATURAL WHEN, IN THE OPINION OF THE ENGINEER, ADEQUATE AND DESIRABLE NATURAL VEGETATION OR GRASS EXIST. WHERE THIS TYPE VEGETATION DOES NOT EXIST, ONLY HARROWING DISKING, LEVELING, AND/OR CLEAN-UP SHALL BE UNDERTAKEN, TO A DEGREE SUFFICIENT TO PREPARE THE AREA FOR GRASSING OPERATIONS.

—×———×— AREAS WHERE EQUIPMENT IS NOT ALLOWED AND OTHER LOCATIONS, AS DIRECTED BY THE ENGINEER, MUST BE PROTECTED BY TREE GUARDS. THE LOCATION FOR TREE GUARDS SHALL BE SHOWN IN THE PLANS.

ALL OTHER AREAS NOT INCLUDED IN ONE OF THE ABOVE CATEGORIES, OR THOSE DESIGNATED BY THE TYPICAL SECTIONS, SHALL BE STANDARD CLEARING AND GRUBBING.

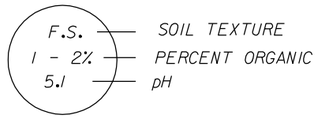
WHERE UNFORSEEN SITE CONDITIONS EXIST, ADJUSTMENTS OR EXCEPTIONS MAY BE MADE TO THE ABOVE PROCEDURE AT THE DIRECTION OF THE ENGINEER.

FINISH SOIL LAYER - GENERAL NOTES

STOCKPILING OF FINISH SOIL LAYER MATERIAL IS TO BE DONE ONLY IN AREAS REQUIRING STANDARD CLEARING AND GRUBBING AND/OR AREAS DESIGNATED AS TYPE 5 (SEE SELECTIVE CLEARING AND GRUBBING - GENERAL NOTES).

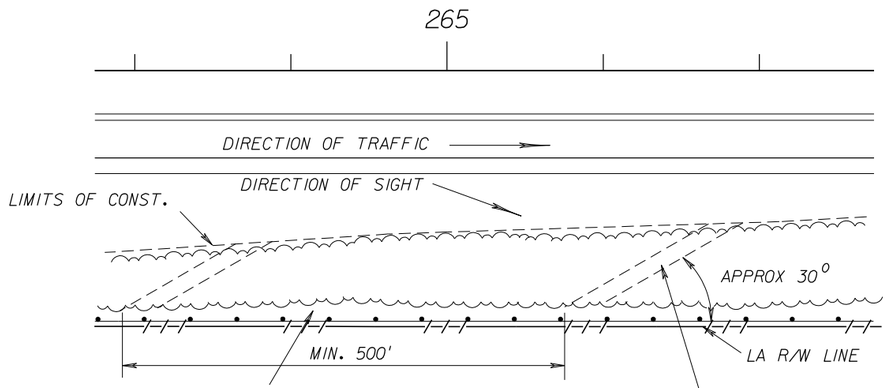
TYPE 4 AREAS MAY BE USED FOR STOCKPILING OF FINISH SOIL LAYER MATERIAL ONLY WHERE SUCH AREAS HAVE BEEN CLEARED, AT THE DIRECTION OF THE ENGINEER DURING CONSTRUCTION OPERATIONS.

SUFFICIENT AREA HAS BEEN DESIGNATED SO THAT ALL STOCKPILING MAY BE DONE IN ACCORDANCE WITH THE REQUIREMENTS LISTED ABOVE.



SOIL INFORMATION DETAIL

EXPLANATION OF SYMBOLS & SOIL TEXTURE ABBREVIATIONS



10' STRIP WHICH MAY BE CLEARED FOR FENCE CONSTRUCTION WITH SELECTED DESIRABLE TREES ALLOWED TO REMAIN, AS DIRECTED BY THE ENGINEER.

AT THE DIRECTION OF THE ENGINEER, DIAGONAL PATH MAY BE CUT IN AREAS TO REMAIN NATURAL, AS SHOWN ABOVE, FOR THE REMOVAL OF TIMBER AND STUMPS FROM THE AREA CLEARED FOR FENCE CONSTRUCTION.

ACCESS FOR FENCE CONSTRUCTION

(APPLIES TO ALL TYPES OF SELECTIVE CLEARING AND GRUBBING)

EXHIBIT SCG-1
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

SELECTIVE CLEARING AND GRUBBING

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$

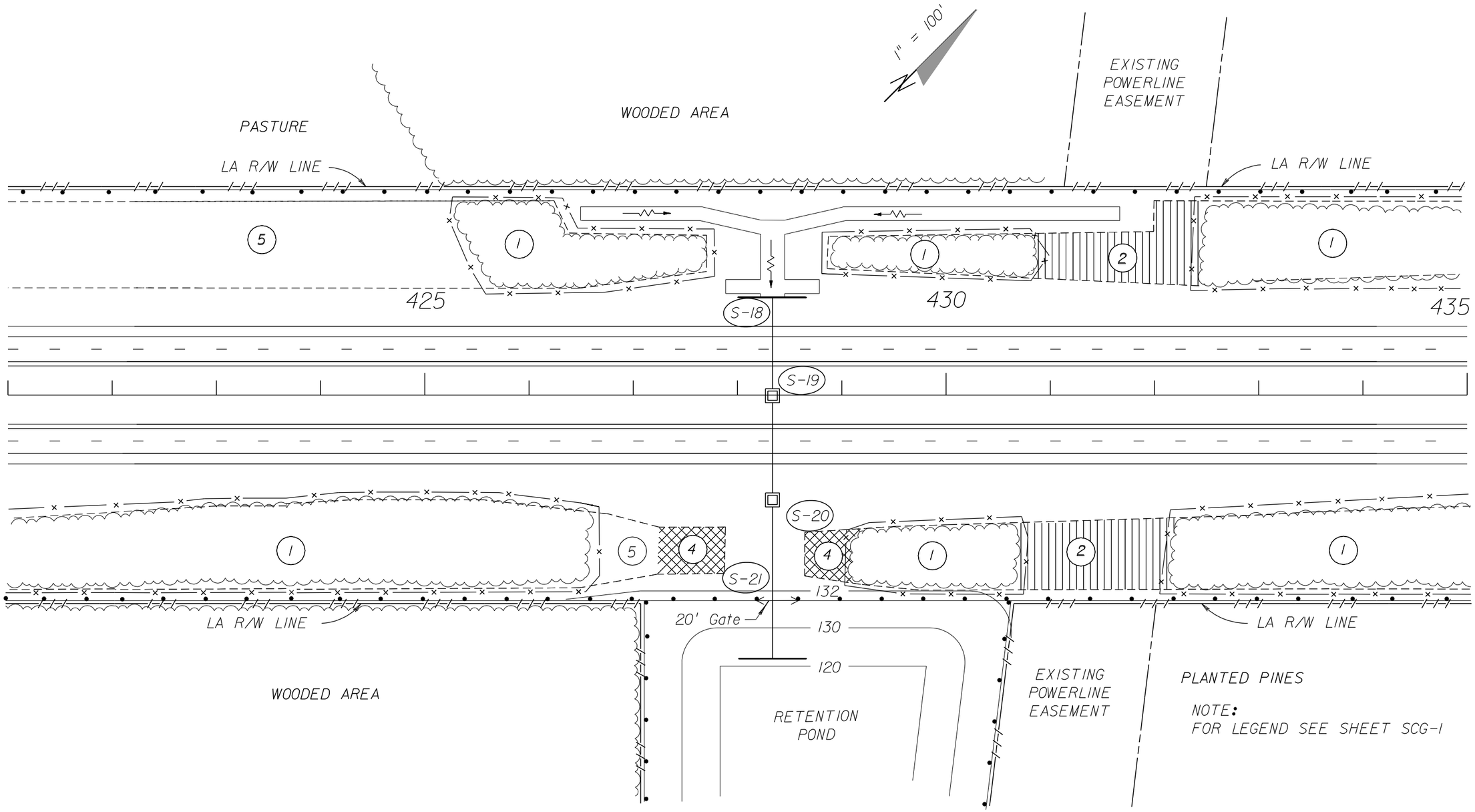


EXHIBIT SCG-2
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

SELECTIVE CLEARING AND GRUBBING

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$

PERMANENT RETAINING WALL SYSTEM DATA TABLES

GEOTECHNICAL INFORMATION						
		Reinforced Soil & Random Backfill	Loose Fine Sand	Firm Fine Sand	Loose Clayey Fine Sand	Firm Clayey Fine Sand
Depth Below Existing Ground Line (ft.)	Wall No. 1 & 2	——	0'-6'	6'-33'	33'-39'	——
	Wall No. 3	——	0'-10'	10'-26'	——	26'-39'
Unit Weight (pcf)		110 pcf Moist Weight In-Place	118 pcf	118 pcf	120 pcf	110 pcf
Cohesion (psf)					122 pcf	122 pcf
Internal Friction Angle		30°	30°	32°		

NOTE: If the unit weight and /or internal friction angle of the fill proposed by the Contractor differs from that shown above, the Project Engineer will contact both the District Geotechnical Engineer and the wall designer for a possible redesign.

RETAINING WALL VARIABLES						
Wall No.	Wall Settlement			Durability Category	Concrete Properties	
	Long Term Settlement (in.)	Short Term Settlement (in.)	Differential Settlement (in.)		Precast Wall Panels	
					Class	f'c (psi)
1 & 2	2" to 3"	1" to 2"	1/16"/1"	B	IV	5500
3	2" to 3"	1" to 2"	1/16"/1"	B	IV	5500

NOTE: Design walls for the settlements noted in the table.
Long term settlement is measured from the beginning of wall Construction.

SOIL REINFORCEMENT LENGTHS FOR EXTERNAL STABILITY												
Wall No. 1 & 2	Wall Height (ft.)	0-11	12	13-14	15	16-17	18	19-20	21	22-23	24	25
	Reinforcement Length (ft.)	8	9	10	11	12	13	14	15	16	17	18
	Bearing Pressure (psf)	1984	2295	2546	2857	3108	3419	3671	3980	4233	4543	4851
Wall No. 3	Wall Height (ft.)	0-11	12	13-14	15	16-17	18	19-20	——	——	——	——
	Reinforcement Length (ft.)	8	9	10	11	12	13	14	——	——	——	——
	Bearing Pressure (psf)	2467	2467	2467	2467	2467	2467	2467	——	——	——	——

NOTE: The reinforcement strap lengths shown above are the minimum lengths required for external stability. the reinforcement lengths used in construction of the retaining walls will be the longer of that required for external or internal stability (determined by proprietary wall companies).

NOTES

1. Concrete facing panel surfaces treatment will be a fluted, trapezoid, V-groove, fractured rib 3/4" on 1 1/2" centers similar to Burke Form Liner, Pattern No. BG312 (Waterfall).

2. If required, the soil reinforcement and fasteners for the abutement back wall will be designed and furnished by proprietary wall company. The soil reinforcement will be designed to resist a horizontal load of 3.5 kips/ft of back wall width. The cost of soil reinforcement and fasteners will be included in the cost of the retaining wall system.

3. Applicable FDOT Wall Types for each wall location are listed below. See the Qualified Products List for approved wall systems and the Table of FDOT Wall Types on Index No. 5300 of the Design Standards for allowable wall type substitutions.

Wall No. 1, 2 & 3 - FDOT Wall Type 2B

4. Longitudinal dimensions shown in the plans are measured along the exterior face of the wall. Elevations shown are to the top of coping, top of leveling pad or top of wall footing.

Note: Use CADD Cell "05300".
Work this cell with Design Standards, Index No. 5300.

EXHIBIT CP-1
Date: 1/1/06

REVISIONS					
Date	By	Description	Date	By	Description

	Names	Dates
Drawn by		
Checked by		
Designed by		
Checked by		
Approved by		

ENGINEER OF RECORD:

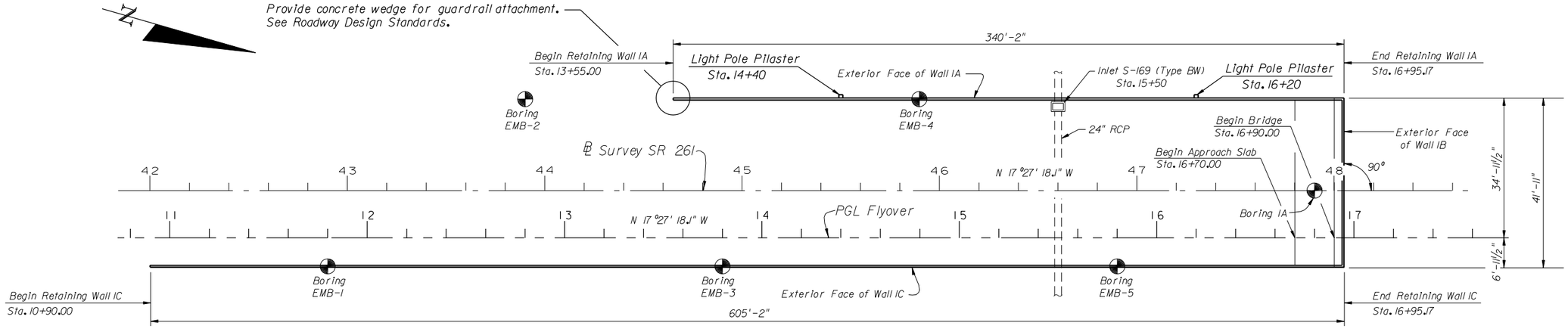
FLORIDA DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID

SHEET TITLE: WALL CONTROL DRAWINGS GENERAL NOTES

PROJECT NAME:

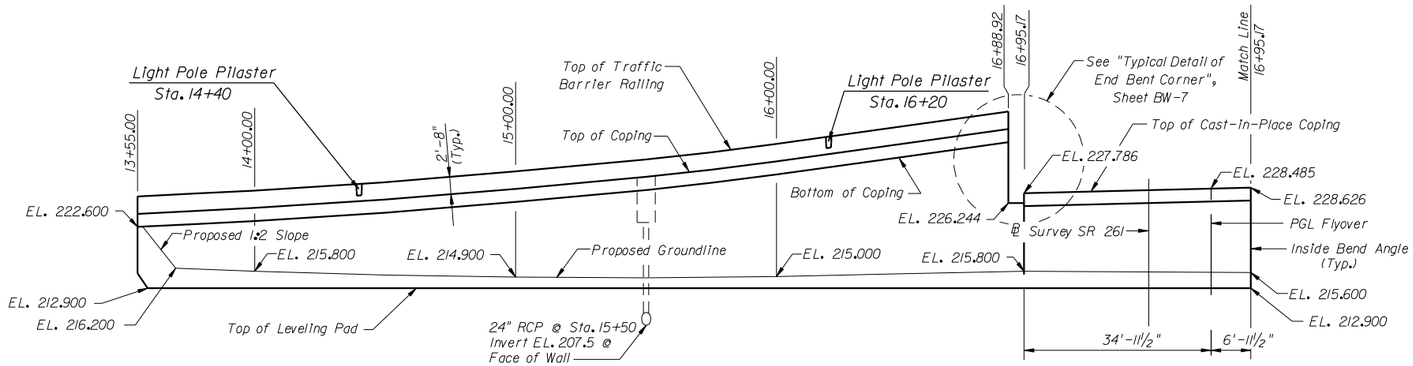
SHEET NO.



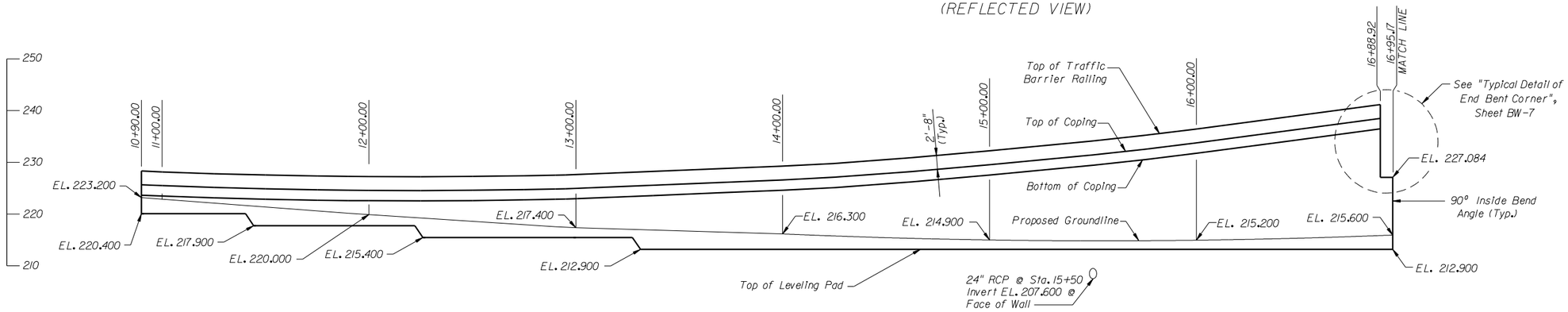
NOTES:

1. For Top of Coping Elevations see sheet BW-6.
2. Top of footing embedment depth shall be a minimum of 2'-0" (See Sheet BW-1 for details).
3. Provide ¾" open joints in Traffic Railing Barrier at a maximum of 90 ft. intervals.
4. ◓ indicates Soil Boring. See Sheets B-8 thru B-12a for boring data.
5. CPT Sounding Locations are not shown. See Sheets B-12b thru B-12q for CPT data.
6. For Additional Information regarding Drainage Structures and Utility Locations, See Roadway Plans.

PLAN



ELEVATION - WALLS IA AND IB
(REFLECTED VIEW)



ELEVATION - WALL IC

EXHIBIT CP-2
Date: 1/1/06

REVISIONS					
Date	By	Description	Date	By	Description

	Names	Dates
Drawn by		
Checked by		
Designed by		
Checked by		
Approved by		

ENGINEER OF RECORD:

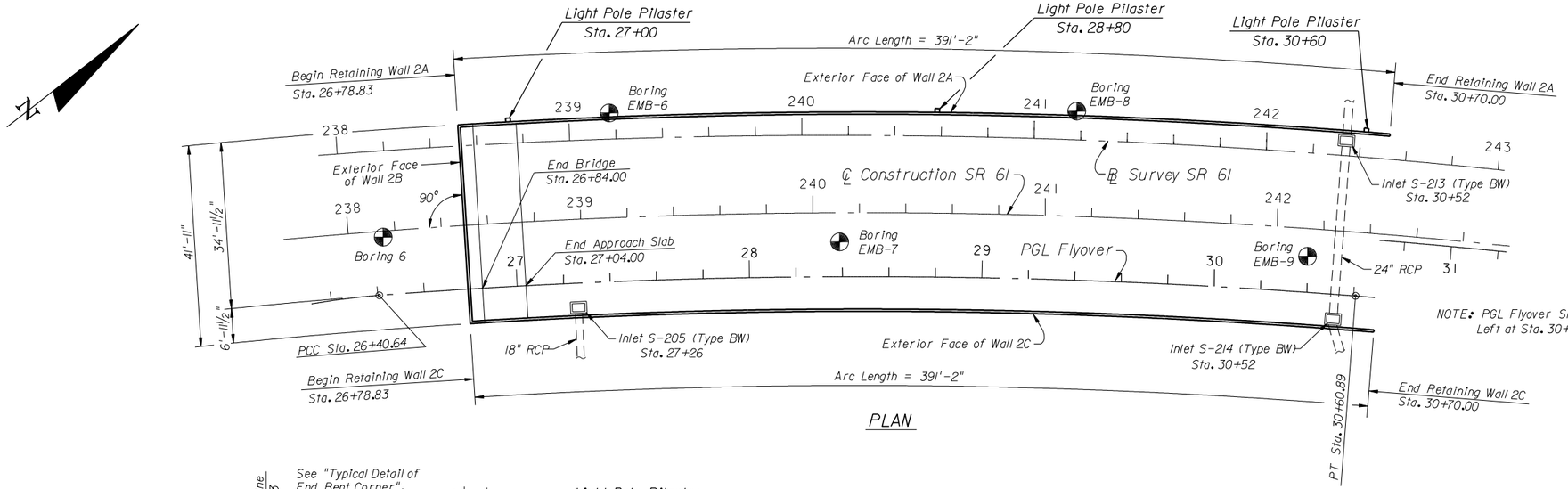
FLORIDA DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID

SHEET TITLE:
MSE WALL No.1

PROJECT NAME:

SHEET NO.



PLAN

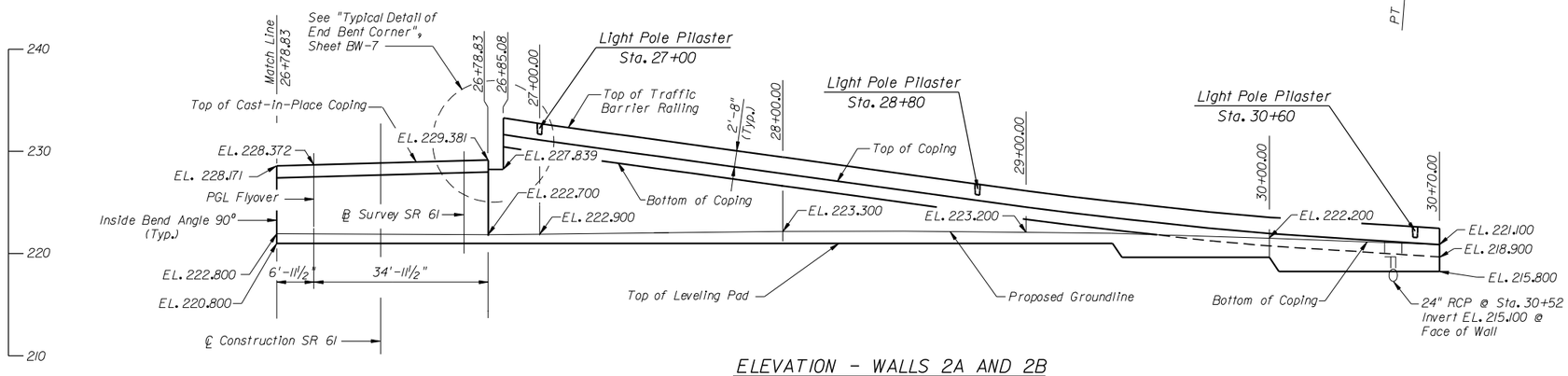
NOTE: PGL Flyover Shifts 12'-0" Left at Sta. 30+69.23

HORIZONTAL CURVE DATA

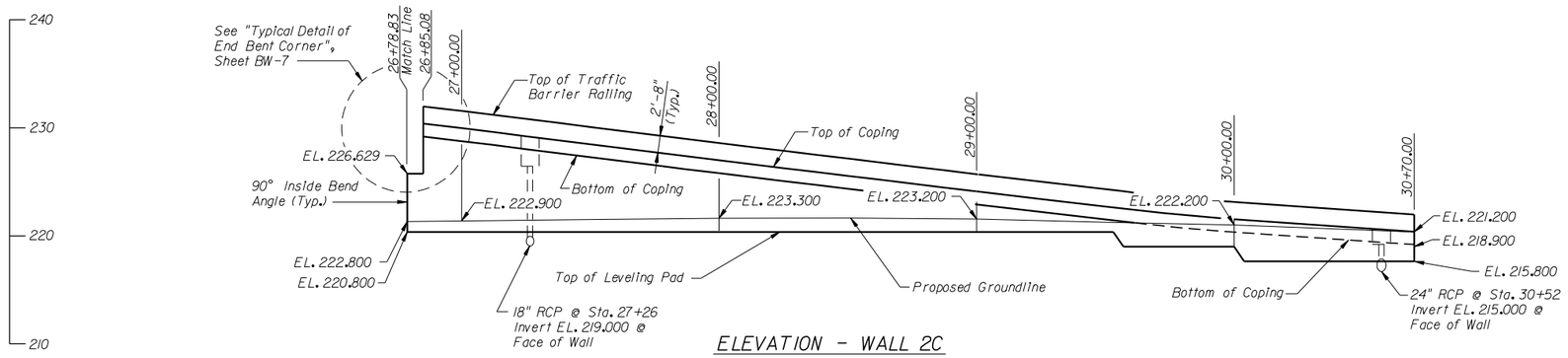
PI Sta. = 28+50.87
Δ = 4° 28' 13" Rt.
D = 1°02' 54"
T = 210.23'
L = 420.25'
R = 5,386.25'
PCC Sta. = 26+40.64
PT Sta. = 30+60.89

STATE PLANE COORDINATES

	N	E
PCC		
PI	(Not Available)	
PT		



ELEVATION - WALLS 2A AND 2B
(REFLECTED VIEW)



ELEVATION - WALL 2C

NOTES:

1. For Top of Coping Elevations see sheet BW-6.
2. Top of footing embedment depth shall be a minimum of 2'-0" (See Sheet BW-1 for details).
3. Provide ¾" open joints in Traffic Railing Barrier at a maximum of 90 ft. intervals.
4. ◓ indicates Soil Boring. See Sheets B-8 thru B-12a for boring data.
5. CPT Sounding Locations are not shown. See Sheets B-12b thru B-12q for CPT data.
6. For Additional Information regarding Drainage Structures and Utility Locations, See Roadway Plans.

EXHIBIT CP-3
Date: 1/1/06

REVISIONS					
Date	By	Description	Date	By	Description

	Names	Dates
Drawn by		
Checked by		
Designed by		
Checked by		
Approved by		

ENGINEER OF RECORD:

FLORIDA DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID

SHEET TITLE: MSE WALL NO. 2

PROJECT NAME:

SHEET NO.

WALL No. 1A

PGL Flyover Station	Exposed Face of Wall 1A Offset from PGL Flyover (ft.)	Top of Coping Elevation @ Wall 1A (ft.)
13+55.00	34.958	224.600
13+75.00	34.958	224.969
14+00.00	34.958	225.503
14+25.00	34.958	226.116
14+50.00	34.958	226.809
14+75.00	34.958	227.583
15+00.00	34.958	228.436
15+25.00	34.958	229.370
15+50.00	34.958	230.383
15+75.00	34.958	231.477
16+00.00	34.958	232.650
16+25.00	34.958	233.904
16+50.00	34.958	235.390
16+75.00	34.958	236.848
16+88.92	34.958	237.615
16+93.50	34.958	-

WALL No. 1C

PGL Flyover Station	Exposed Face of Wall 1C Offset from PGL Flyover (ft.)	Top of Coping Elevation @ Wall 1C (ft.)
10+90.00	6.958	225.647
11+00.00	6.958	225.486
11+25.00	6.958	225.139
11+50.00	6.958	224.872
11+75.00	6.958	224.685
12+00.00	6.958	224.578
12+25.00	6.958	224.551
12+50.00	6.958	224.604
12+75.00	6.958	224.737
13+00.00	6.958	224.950
13+25.00	6.958	225.243
13+50.00	6.958	225.616
13+75.00	6.958	226.069
14+00.00	6.958	226.603
14+25.00	6.958	227.216
14+50.00	6.958	227.909
14+75.00	6.958	228.683
15+00.00	6.958	229.536
15+25.00	6.958	230.470
15+50.00	6.958	231.483
15+75.00	6.958	232.577
16+00.00	6.958	233.750
16+25.00	6.958	235.004
16+50.00	6.958	236.323
16+75.00	6.958	237.648
16+88.92	6.958	238.477
16+93.50	6.958	-

WALL No. 2A

PGL Flyover Station	Exposed Face of Wall 2A Offset from PGL Flyover (ft.)	Top of Coping Elevation @ Wall 2A (ft.)
26+78.83	34.958	-
26+85.08	34.958	239.246
27+00.00	34.958	238.327
27+25.00	34.958	236.948
27+50.00	34.958	235.569
27+75.00	34.958	234.191
28+00.00	34.958	232.812
28+25.00	34.958	231.433
28+50.00	34.958	230.055
28+75.00	34.958	228.676
29+00.00	34.958	227.297
29+25.00	34.958	226.058
29+50.00	34.958	224.927
29+75.00	34.958	223.891
30+00.00	34.958	222.950
30+25.00	34.958	222.109
30+50.00	34.958	221.525
30+70.00	22.958	221.121

WALL No. 2C

PGL Flyover Station	Exposed Face of Wall 2C Offset from PGL Flyover (ft.)	Top of Coping Elevation @ Wall 2C (ft.)
26+78.83	6.958	-
26+85.08	6.958	238.015
27+00.00	6.958	237.310
27+25.00	6.958	236.055
27+50.00	6.958	234.804
27+75.00	6.958	233.554
28+00.00	6.958	232.314
28+25.00	6.958	231.102
28+50.00	6.958	229.890
28+75.00	6.958	228.678
29+00.00	6.958	227.466
29+25.00	6.958	226.258
29+50.00	6.958	225.127
29+75.00	6.958	224.091
30+00.00	6.958	223.150
30+25.00	6.958	222.307
30+50.00	6.958	221.656
30+70.00	18.958	221.201

WALL No. 3

SR 61 ℄ Construction Station	Exposed Face of Wall 3 Offset from SR 61 ℄ Construction (ft.)	Top of Coping Elevation @ Wall 3 (ft.)
265+20.00	69.708	212.650
265+40.00	69.708	212.210
265+42.48	69.708	212.160
265+60.00	68.550	211.810
265+80.00	67.227	211.400
266+00.00	65.905	211.000
266+20.00	64.582	210.590
266+40.00	63.260	210.190
266+60.00	61.938	209.780
266+80.00	60.615	209.380
267+00.00	59.293	209.010
267+20.00	57.970	208.670
267+23.96	57.708	208.610
267+40.00	57.708	208.330
267+60.00	57.708	208.030
267+80.00	57.708	207.770
268+00.00	57.708	207.550
268+20.00	57.708	207.350
268+40.00	57.708	207.210
268+60.00	57.708	207.090
268+80.00	57.708	207.010
269+00.00	57.708	206.970
269+20.00	57.708	206.970
269+40.00	57.708	207.010
269+60.00	57.708	207.090
269+80.00	57.708	207.210
270+00.00	57.708	207.350
270+20.00	57.708	207.550
270+40.00	57.708	207.770
270+60.00	57.708	208.030
270+80.00	57.708	208.330
271+00.00	57.708	208.670
271+20.00	57.708	209.050
271+25.00	57.708	209.150

NOTES:

1. *Offsets are given to the exterior face of the proprietary wall (See Sheet BW-1 for detail).*
2. *Top of Coping Elevation detail shown on Sheet BW-1.*
3. *For existing and proposed ground elevations for all walls, see Sheets BW-2 thru BW-5.*

EXHIBIT CP-4
Date: 1/1/06

REVISIONS					
Date	By	Description	Date	By	Description

	Names	Dates
Drawn by		
Checked by		
Designed by		
Checked by		
Approved by		

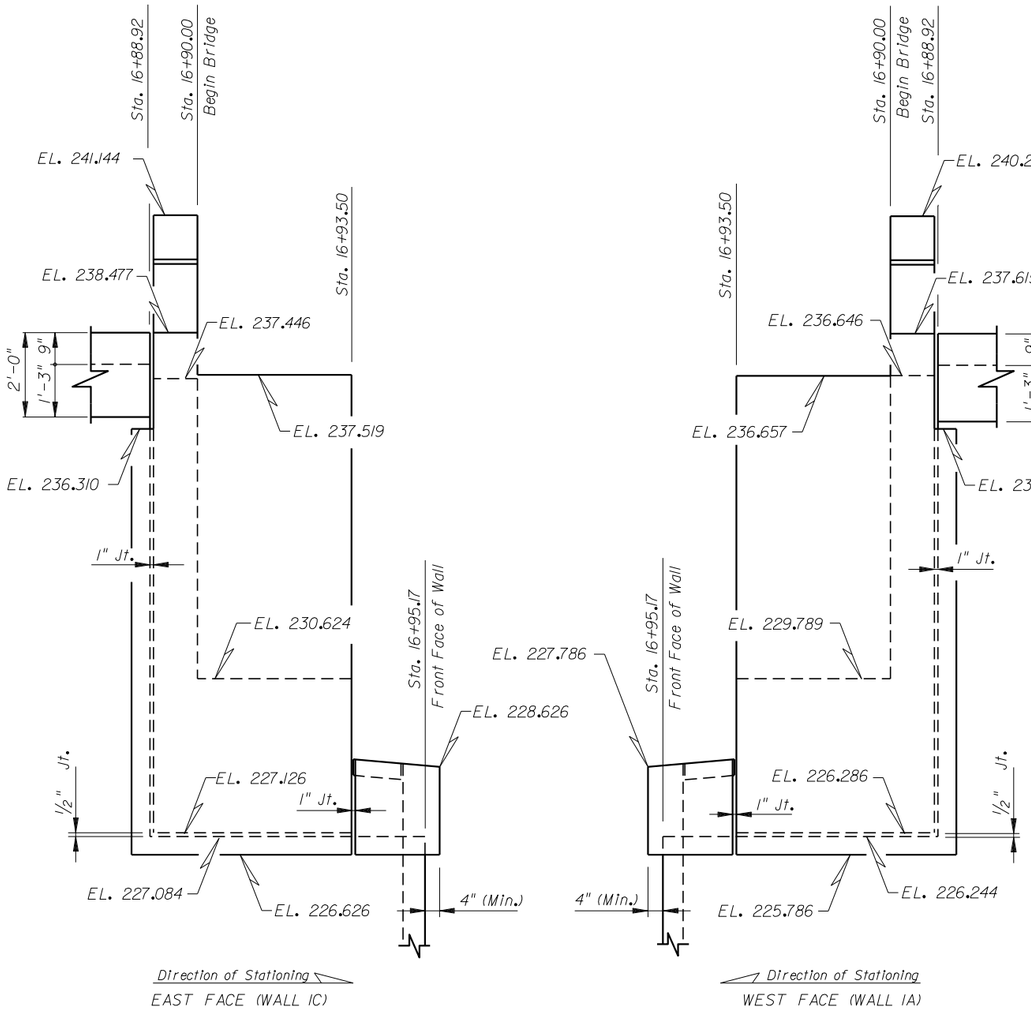
ENGINEER OF RECORD:

FLORIDA DEPARTMENT OF TRANSPORTATION

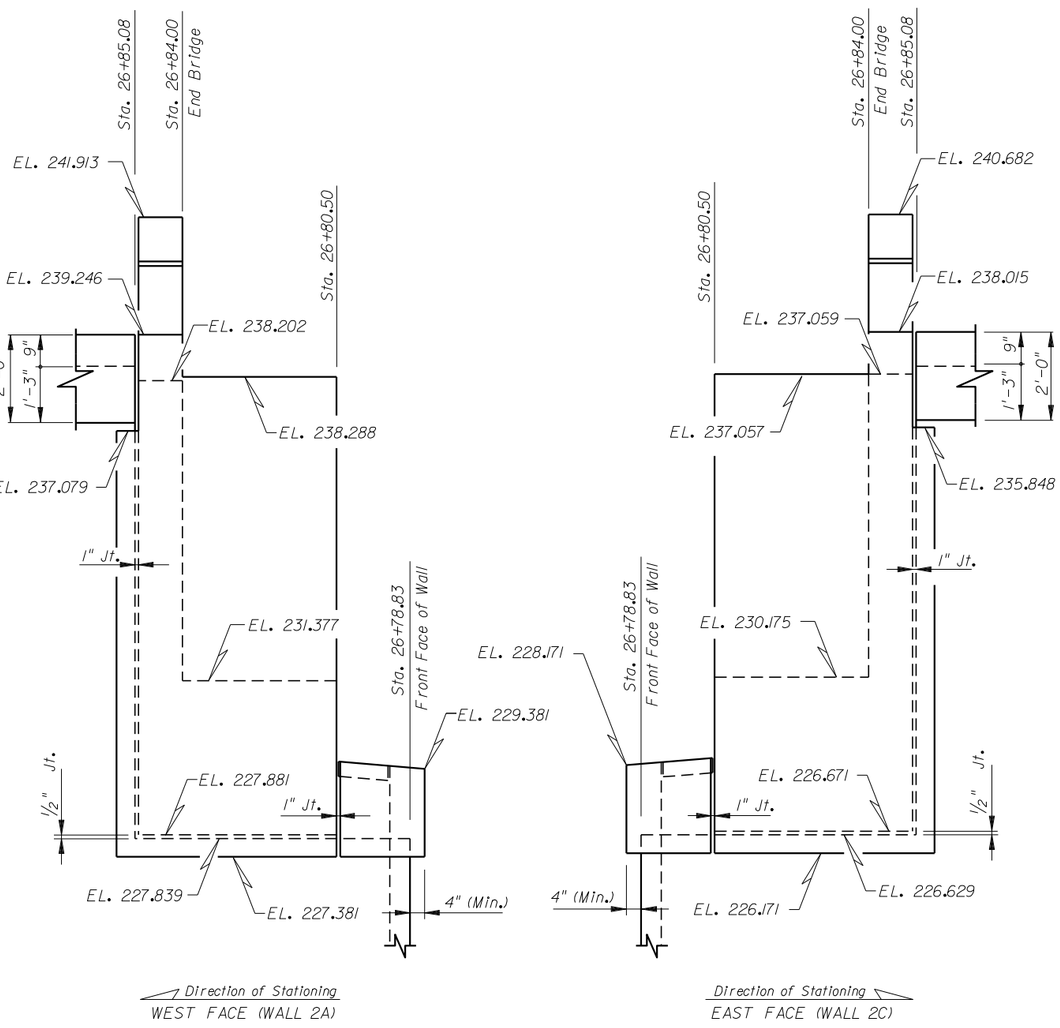
ROAD NO.	COUNTY	FINANCIAL PROJECT ID

SHEET TITLE: MSE WALL ELEVATIONS

SHEET NO.



END BENT NO. 1



END BENT NO. 7

EXHIBIT CP-5
Date: 1/1/06

REVISIONS					
Date	By	Description	Date	By	Description

	Names	Dates
Drawn by		
Checked by		
Designed by		
Checked by		
Approved by		

ENGINEER OF RECORD:

FLORIDA DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID

SHEET TITLE: MSE WALL MISCELLANEOUS DETAILS

PROJECT NAME:

SHEET NO.

TEMPORARY RETAINING WALL SYSTEM DATA TABLES

GEOTECHNICAL INFORMATION

		Reinforced Soil & Random Backfill	Loose Fine Sand	Firm Fine Sand	Loose Clayey Fine Sand	Firm Clayey Fine Sand
Wall No. 1 & 2	Depth Below Existing Ground Line (ft.)	——	0'-9'	9'-23'	23'-37'	37'-45'
	Unit Weight (pcf)	110 pcf	118 pcf	118 pcf	120 pcf	110 pcf
	Cohesion (psf)	0	0	0	0	0
	Internal Friction Angle	30°	34°	34°	35°	30°
Wall No. 3 & 4	Depth Below Existing Ground Line (ft.)	——	0'-10'	10'-15'	15'-17'	17'-45'
	Unit Weight (pcf)	110 pcf	116 pcf	118 pcf	120 pcf	116 pcf
	Cohesion (psf)	0	0	0	4177 pcf	0
	Internal Friction Angle	30°	32°	34°	0	34°

NOTE: If the unit weight and/or internal friction angle of the fill proposed by the contractor differs from that shown above, the Project Engineer will contact both the District Geotechnical Engineer and the Wall Designer for a possible redesign.

RETAINING WALL VARIABLES

Wall No.	Wall Settlement			Air Contaminants Classification
	Long Term Settlement (in.)	Short Term Settlement (in.)	Differential Settlement (in./ft.)	
1 & 2	1/2"	3/8"	1/16"/1'	Extremely Aggressive
3 & 4	1/2"	1/4"	1/16"/1'	Extremely Aggressive

NOTE: Design walls for the settlements noted in the table.
Long term settlement is measured from the beginning of wall construction.

SOIL REINFORCEMENT LENGTHS FOR EXTERNAL STABILITY

Walls 1 thru 4	Wall Height (ft.)	5'-0"	5'-6"	6'-0"	6"-6"	7'-0"	7'-6"
	Reinforcement Length (ft.)	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"
	Bearing Pressure (psf)	1082	1241	1426	1648	1454	1623

NOTE: The reinforcement strap lengths shown above are the minimum lengths required for external stability. The reinforcement lengths used in the construction of the retaining walls will be the longer of that required for external or internal stability (determined by proprietary wall companies).

NOTES

1. Applicable FDOT Wall Types for each wall location are listed below. See the Qualified Products List for approved wall systems.

Wall No. 1, 2, 3 & 4: FDOT Wall Type 3

Note: Use CADD Cell "05301".
Work this cell with Design Standards, Index No. 5301.

EXHIBIT CP-6
Date: 1/1/06

REVISIONS					
Date	By	Description	Date	By	Description

	Names	Dates
Drawn by		
Checked by		
Designed by		
Checked by		
Approved by		

ENGINEER OF RECORD:

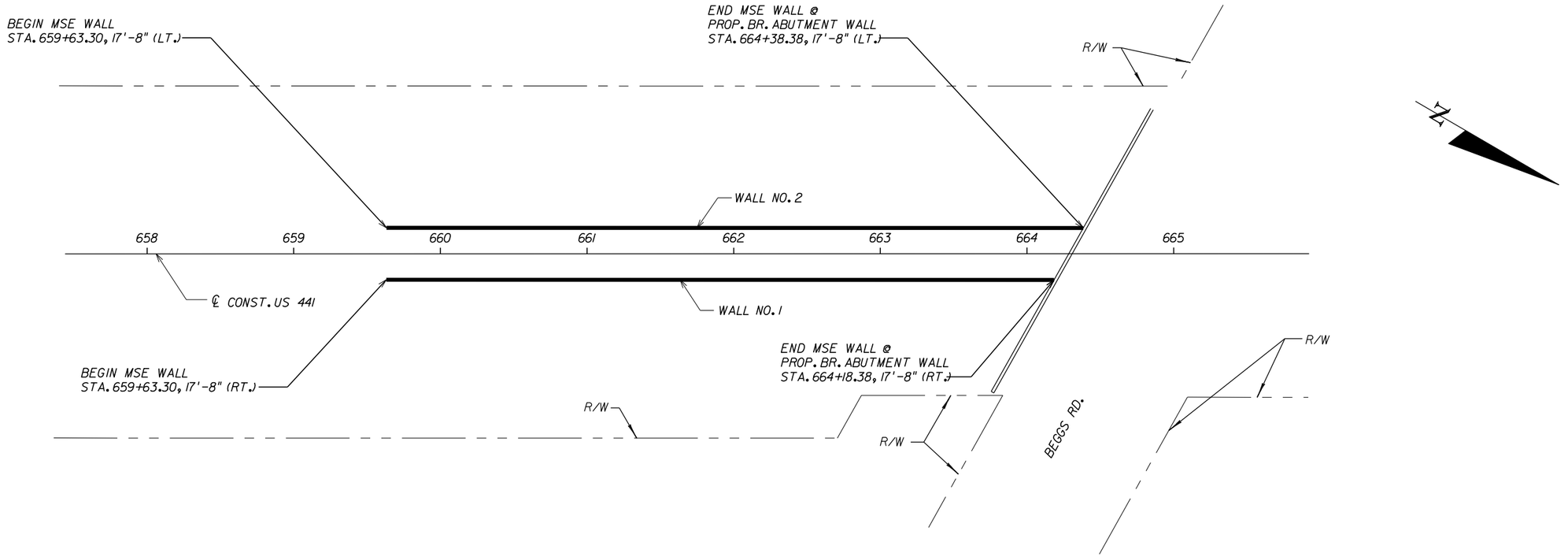
FLORIDA DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID

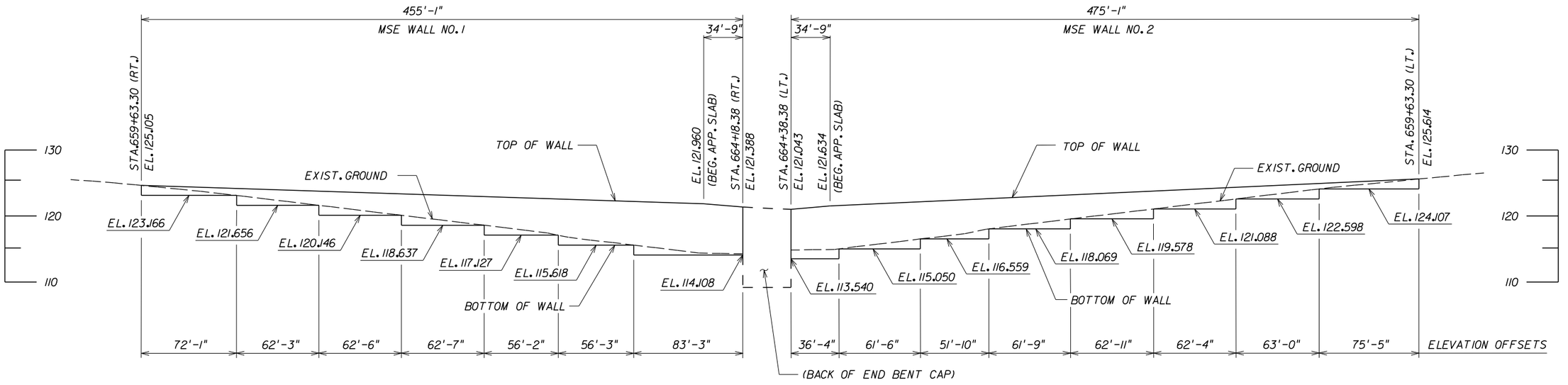
SHEET TITLE: TEMPORARY WALL CONTROL DRAWINGS GENERAL NOTES

PROJECT NAME:

SHEET NO.



PLAN VIEW TEMP. MSE WALL NOS. 1 & 2



EXPANDED ELEVATION VIEWS (TEMP. MSE WALL NOS. 1 & 2, LOOKING AT FRONT FACE OF WALL)

EXHIBIT CP-7
Date: 1/1/06

REVISIONS					
Date	By	Description	Date	By	Description

	Names	Dates
Drawn by		
Checked by		
Designed by		
Checked by		
Approved by		

ENGINEER OF RECORD:

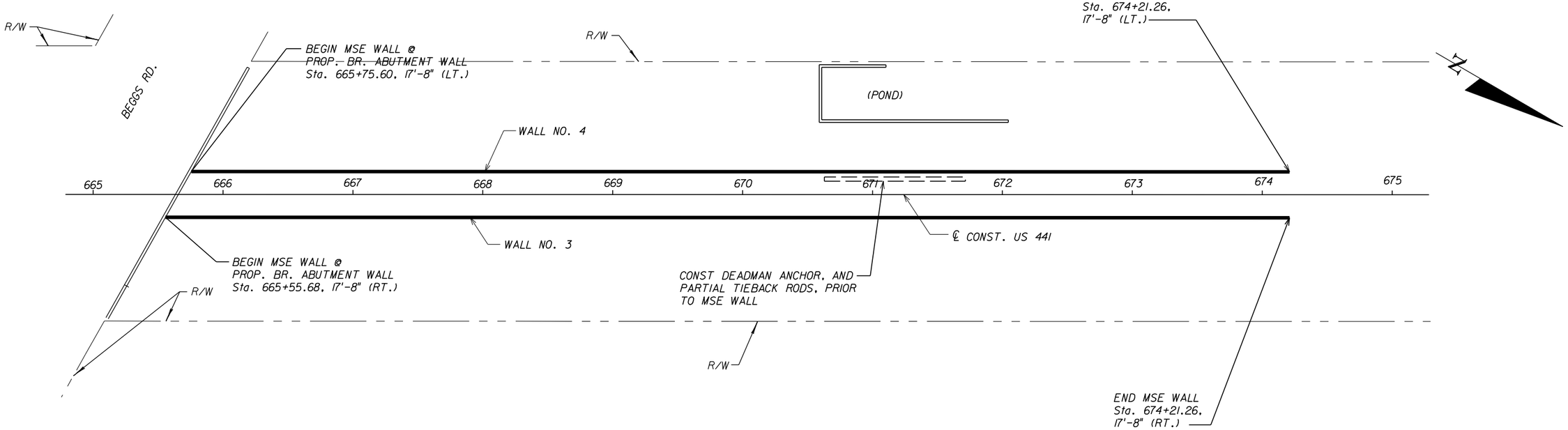
FLORIDA DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID

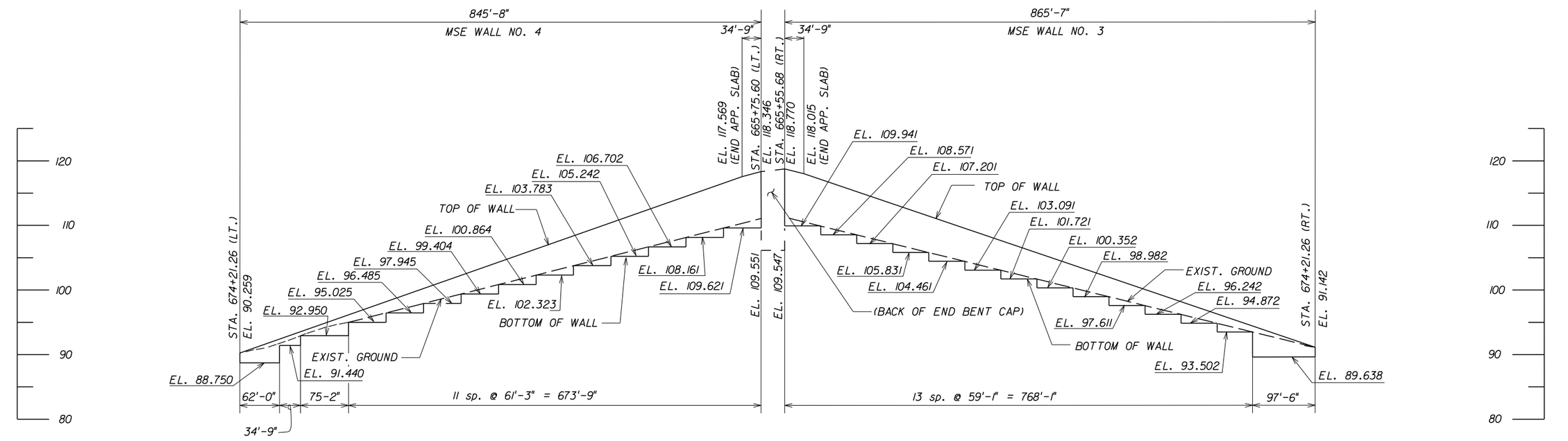
SHEET TITLE: TEMPORARY MSE WALL NOS. 1 & 2

PROJECT NAME:

SHEET NO.



PLAN VIEW TEMP. MSE WALL NOS. 3 & 4



EXPANDED ELEVATION VIEWS (TEMP. MSE WALL NOS. 3 & 4, LOOKING AT FRONT FACE OF WALL)

EXHIBIT CP-8
Date: 1/1/06

REVISIONS					
Date	By	Description	Date	By	Description

	Names	Dates
Drawn by		
Checked by		
Designed by		
Checked by		
Approved by		

ENGINEER OF RECORD:

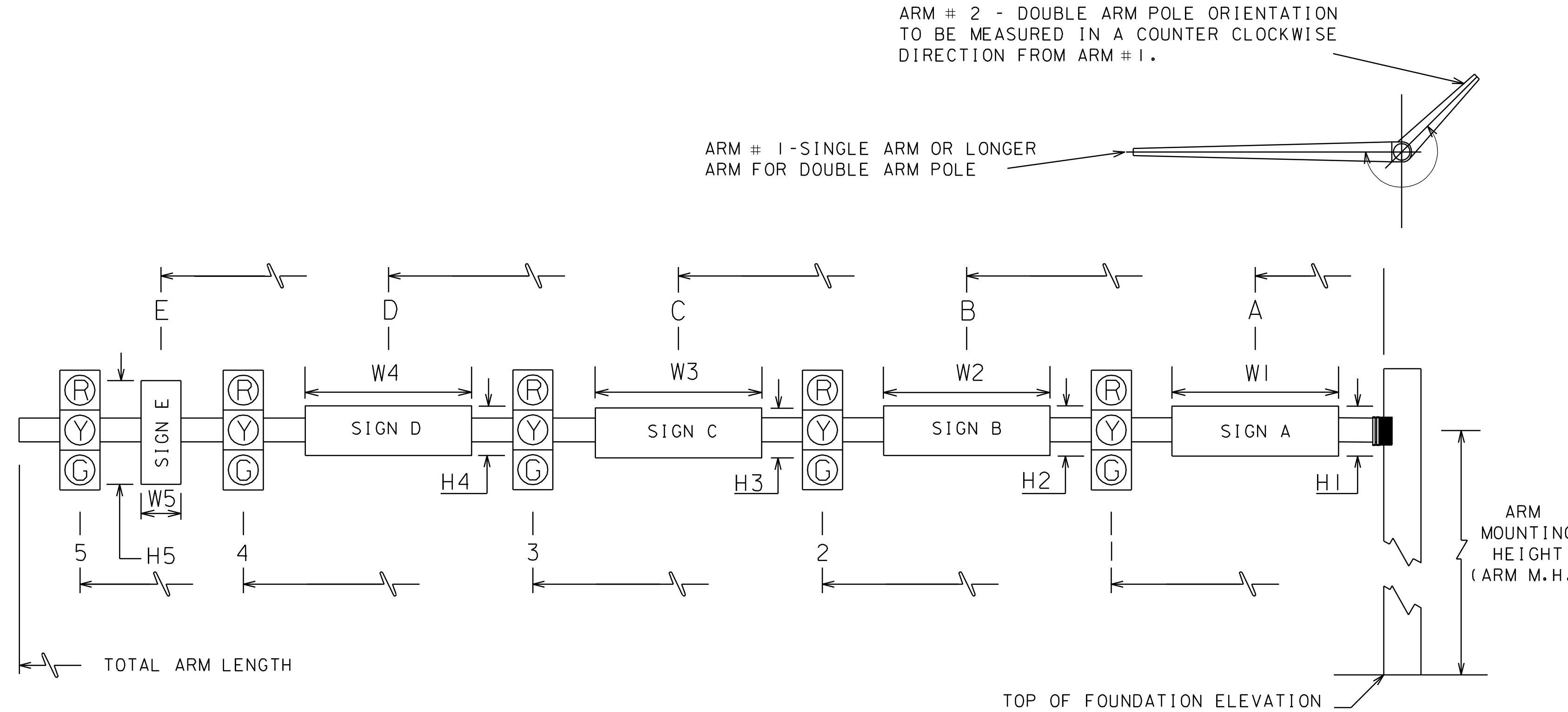
FLORIDA DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID

SHEET TITLE: TEMPORARY MSE WALL NOS. 3 & 4

PROJECT NAME:

SHEET NO.



SPECIAL INSTRUCTIONS

ID NO.	PED. BUTTON		PED. SIGNALS		HANDHOLE LOCATION

* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY.

ID NO.	SHEET NO.	LOCATION BY STA.	TOP OF FOUNDATION ELEVATION	RDWY ARM NO.	CROWN ELEV.	SIGNAL DATA: SIGNAL V/H	BACK PLATES Y/N	PED. SIGNAL Y/N	DISTANCE FROM POLE (FT): 1	*	2	*	3	*	4	*	5	*	TOTAL ARM LENGTH	ARM M.H.	∠ BETWEEN DUAL ARMS 90/270	SIGN DATA — DISTANCE FROM POLE / HEIGHT AND WIDTH OF SIGN (FT): A	H1	W1	B	H2	W2	C	H3	W3	D	H4	W4	E	H5	W5	PAINT COLOR
1	T-4	10+42.00	2.81	1	2.84	V	Y		11.5	3	22.0	3	28.5	3	50.0	5			52.5	20.0											46.0	2.0	2.0				
				2																																	
2	T-5	12+36.00	2.68	1	2.67	V	Y		11.5	3	22.0	3	28.0	3	50.0	5			52.5	20.0	270				18.5	1.5	5.0				45.0	2.0	2.0				
				2	2.69	V	Y		13.0	3	24.5	3							26.5	20.0		6.0	1.5	4.5	10.0	2.0	2.0										
				1																																	
				2																																	
				1																																	
				2																																	
				1																																	
				2																																	
				1																																	
				2																																	
				1																																	
				2																																	
				1																																	
				2																																	
				1																																	
				2																																	
				1																																	
				2																																	
				1																																	
				2																																	
				1																																	
				2																																	
				1																																	
				2																																	
				1																																	
				2																																	

EXHIBIT T-MA
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

MAST ARM TABULATION

SHEET NO.

TABULATION OF QUANTITIES/PLANT SCHEDULE

PAY ITEM NO.	PAYSIZE	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAX. MAINTAINED SIZE	SPACING	REMARKS	UNIT	SHEET NUMBERS								TOTAL THIS SHEET		GRAND TOTAL	
										LD-5		LD-6		LD-7		LD-8		LD-9					
										PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
570-1-2		SOD	STENOTAPHRUM SECUNDATUM	ST. AUGUSTINE GRASS				LAY SOLIDLY IN ALL	SY	330.78		140.89		346.11		4193.44		44		5055.22		5055.22	
								INDICATED AREAS															
580-1-1	SMALL	AG	ARACHIS GLABRATA	PERENNIAL PEANUT	1 GAL.	6" HT.	18" OC	MOW REGULARLY TO	EA	1655		1118		2729		0		334		5836		5836	
								PROMOTE FLOWERING															
	SMALL	LEG	LIRIOPE MUSCARI "EVERGREEN GIANT"	EVERGREEN GIANT LIOROPE	1 GAL.	16" HT.	24" OC	THIN BY PLANT DIVISION	EA	434		381		0		805		0		1620		1620	
								EVERY 3-5 YEARS															
	SMALL	AS	ARISTIDA STRICTA	WIREGRASS	1 GAL.	2'-4' HT.	2' OC	NO SERIOUS PESTS	EA	465		513		0		0		0		978		978	
						2'-3' SPREAD																	
	SMALL	IVD	ILEX VOMITORIA "SHELLINGS"	DWARF YAUPON	3 GAL.	3'-4' HT.	3' OC	9 FEMALES TO 1 MALE/	EA	89		134		0		109		0		332		332	
						3'-4' SPREAD		MINIMAL PRUNING REQUIRED															
	SMALL	HF	HERMEROCALLIS FULVA	DAYLILY	1 GAL.	4' HT.	24" OC	THIN BY PLANT DIVISION	EA	131		288		530		0		0		949		949	
								EVERY 3-5 YEARS															
	SMALL	TA	TRACHELOSPERMUM ASIATICUM	STAR JASMINE	1 QUART	2' HT.	24" OC	TRIM TO MAINTAIN	EA	0		753		431		0		383		1567		1567	
						4'-5' SPREAD		BEDLINES															
	SMALL	CL	COREOPSIS	COREOPSIS	1 GAL.	3' HT.	24" OC	REMOVE DEAD STEMS	EA	0		0		0		453		0		453		453	
	SMALL	IV	IRIS VIRGINICA	SOUTHERN BLUE FLAG IRIS	1 GAL.	18" HT.	12" OC	THIN BY PLANT DIVISION	EA	0		0		0		461		0		461		461	
								EVERY 3-5 YEARS															
580-1-2	LARGE	QV	QUERCUS VIRGINIANA	LIVE OAK	14' HT.	40' HT.	AS SHOWN	2" MINIMUM CALIPER/	EA	7		1		0		9		0		17		17	
					65 GAL.		ON PLANS	MINIMAL PRUNING REQUIRED															
	LARGE	VO	VIBURNUM OBOVATUM	WALTER'S VIBURNUM	42" HT.	6' HT.	48" OC	PRUNE TO MAINTAIN	EA	181		183		0		57		0		424		424	
					7 GAL			NATURAL SHAPE															
	LARGE	LIS	LAGERSTROEMIA INDICA	CREPE MYRTLE STANDARD	8'-10' HT.	20' HT.	AS SHOWN	MULTI-TRUNK 3" MINIMUM	EA	0		13		2		0		3		18		18	
					30 GAL.		ON PLANS	CALIPER/1" PER BRANCH															
	LARGE	IOE	ILEX OPACA "EAST PALATKA"	EAST PALATKA HOLLY	12' HT.	25' HT.	AS SHOWN	9 FEMALES TO 1 MALE/	EA	0		3		0		0		0		3		3	
					30 GAL.		ON PLANS	MINIMAL PRUNING REQUIRED															
	LARGE	TD	TAXODIUM DISTICHUM	BALD CYPRESS	8' HT.	50' HT.	AS SHOWN	2" MINIMUM CALIPER/	EA	0		0		0		3		0		3		3	
					30 GAL.		ON PLANS	MINIMAL PRUNING REQUIRED															
	LARGE	BN	BETULA NIGRA	RIVER BIRCH	12' HT.	50' HT.	AS SHOWN	2" MINIMUM CALIPER/	EA	0		0		0		3		0		3		3	
					30 GAL.		ON PLANS	WELL SHAPED															

Pay size in accordance with the Basis of Estimates Handbook:

Small plants include:

1. All ground covers
2. Shrubs to less than 7 gallon
3. Trees to less than 7 gallon
4. Palms clustering type less than 6 foot overall height
5. Cycads to less than 7 gallon

Large plants include:

1. Shrubs 7 gallon or greater
2. Trees 7 gallon and greater
3. All palms single trunk
4. Palms clustering type 6 foot overall height and greater
5. Cycads 7 gallon or greater
6. All sabal palms (a.k.a. sabal palmetto, cabbage palm, state tree)

EXHIBIT: LD-1
Date: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		_ _ _

TABULATION OF QUANTITIES/ PLANT SCHEDULE

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$

THIS EXHIBIT IS AN EXAMPLE NARRATIVE OF A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR A MAJOR RECONSTRUCTION PROJECT. ACTUAL PROJECT CONDITIONS OFTEN DICTATE DIFFERENT APPROACHES THAN SHOWN HERE. THE ENGINEER IS RESPONSIBLE FOR DEVELOPING A SITE SPECIFIC SWPPP THAT COMPLIES WITH VOLUME I CHAPTER II OF THE PLANS PREPARATION MANUAL.

The following narrative of the Stormwater Pollution Prevention Plan contains references to the Standard Specifications for Road and Bridge Construction, the Design Standards, and other sheets of these construction plans. The first sheet of the construction plans (called the Key Sheet) contains an index to the other sheets. The complete Stormwater Pollution Prevention Plan includes several items: this narrative description, the documents referenced in this narrative, the contractor's approved Erosion Control Plan required by Specification Section 104, and reports of inspections made during construction.

I.0 SITE DESCRIPTION:

I.a. Nature of Construction Activity:

The project is the reconstruction of SR 007 (James Bond Boulevard) to a major urban roadway. This involves constructing roadway surface, curb and gutter, sidewalk, underground storm sewer systems, and stormwater management facilities. The project extends from north of Paul Russell Road to Perkins Street, a distance of approximately 1.1 miles.

I.b. Sequence of Major Soil Disturbing Activities:

In the Section 104 Erosion Control Plan, the contractor shall provide a detailed sequence of construction for all construction activities. The contractor shall follow the sequence of major activities described below, unless the contractor proposes a different sequence that is equal or better at controlling erosion and trapping sediment and is approved by the Engineer.

For each construction phase, install perimeter controls after clearing and grubbing necessary for installation of controls but before beginning other work for the construction phase. Remove perimeter controls only after all upstream areas are stabilized.

1. Clearing and grubbing, earthwork, and storm sewer construction for the outfall from the ponds.

2. Clearing and grubbing, earthwork for pond construction.

3. Storm sewer and roadway underdrain construction. Construct the storm drain pipe in the upstream direction.

4. Earthwork associated with roadway, and construction of gravity wall, curb, subgrade, base, pavement, and sidewalk.

5. Construct underdrain in pond bottom.

I.c. Area Estimates:

Total site area: 19.6 acres.
Total area to be disturbed: 19.6 acres.

I.d. Runoff Data:

Runoff Coefficients: Before: 0.62.
During: varies from 0.62 to 0.76.
After: 0.76.

Soils Data: The results of the soil borings along the roadway are shown in the Roadway Soil Survey Sheet(s). The results of soil borings done in the ponds are shown on the Pond Detail Sheets. The numbers for these are identified on the Key Sheet of these construction plans. In general, the soils are clayey sands.

Outfall Information: There are 4 outfalls.

#1 Description: Existing pond at Laura Lee.
Location: Latitude 30° 24' 30", Longitude, 84° 16' 45".
Est. Drainage Area Size: 13.6 acres.
Receiving Water Name: Not applicable.

#2 Description: Pond 1. This discharges to the storm sewer system that runs under Orange Avenue. This system in turn discharges to the box culvert at Sta. 531+00.
Location: Latitude 30° 24' 45", Longitude 84° 17' 00".
Est. Drainage Area Size: 7.3 acres.
Receiving Water Name: East Ditch.

#3 Description: Box culvert at Sta. 531+00.
Location: Latitude 30° 24' 45", Longitude 84° 17' 00"
Est. Drainage Area Size: 4.2 square miles.
Receiving Water Name: East Ditch.

#4 Description: Pond 2. This discharges to the SR 007 storm sewer system that drains to the box culvert at Sta. 531+00.
Location: Latitude 30° 25' 00", Longitude 84° 17' 00".
Est. Drainage Area Size: 15.4 acres.
Receiving Water Name: East Ditch.

I.e. Site Map:

The construction plans are being used as the site maps. The location of the required information is described below. The sheet numbers for the plan sheets referenced are identified on the Key Sheet of these construction plans.

* Drainage Patterns: The drainage basin divides and flow directions are shown on the Drainage Maps. The Back of Sidewalk Profile Sheets show overland flow direction at the right of way line. The arrows above and below the profile represent the flow direction at the left and right property line, respectively. Arrows pointing to the profile indicate runoff coming to the site. Pointing away from the site indicate runoff leaving the site.

* Approximate Slopes: The slopes of the site can be seen in the Cross Section Sheets and the Plan-Profile Sheets. There are pond cross sections located with the Pond Detail Sheets.

* Areas Of Soil Disturbance: The areas to be disturbed are indicated on the Plan-Profile Sheets, the Cross Section Sheets, and the Pond Detail Sheets. Any areas where permanent features are shown to be constructed above or below ground will be disturbed.

* Areas Not To Be Disturbed: Essentially the whole project will be disturbed during construction.

* Locations of Temporary Controls: These are shown on the Erosion Control Sheets except for the controls associated with the box culvert replacement which are shown on the Box Culvert Construction Detail Sheet. Tables providing summaries of temporary erosion and sediment control items are provided in the Summary of Quantity Sheets.

* Locations of Permanent Controls: The stormwater ponds are the primary permanent stormwater management controls. These are shown on the Pond Detail Sheets.

* Areas To Be Stabilized: Temporary stabilization practices are shown in the same location as the temporary controls mentioned above. Permanent stabilization is shown on the Typical Section Sheets, the Plan-Profile Sheets and the Pond Detail Sheets.

* Surface Waters: The only surface water within the site is the East Ditch, which flows through the culvert at Station 531+00. This is located on the Plan-Profile Sheets and the Box Culvert Construction Detail Sheet.

* Discharge Points To Surface Waters: There is only one. This is shown on the Plan-Profile Sheets at the East Ditch (culvert at Station 531+00).

I.f. Receiving Waters:

See item I.d for the outfall locations and receiving water names.
There are no wetland areas on the project site.

EXHIBIT SWP-1
DATE: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		- - -

STORMWATER POLLUTION PREVENTION PLAN

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$

THIS EXHIBIT IS AN EXAMPLE NARRATIVE OF A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR A MAJOR RECONSTRUCTION PROJECT. ACTUAL PROJECT CONDITIONS OFTEN DICTATE DIFFERENT APPROACHES THAN SHOWN HERE. THE ENGINEER IS RESPONSIBLE FOR DEVELOPING A SITE SPECIFIC SWPPP THAT COMPLIES WITH VOLUME I CHAPTER II OF THE PLANS PREPARATION MANUAL.

2.0 CONTROLS:

2.a. Erosion And Sediment Controls:

In the Section 104 Erosion Control Plan, the contractor shall describe the proposed stabilization and structural practices based on the contractor's proposed Traffic Control Plan. The following recommended guidelines are based on the Traffic Control Plan (TCP) outlined in the construction plans. Where following the Traffic Control Plan (TCP) outlined in these construction plans, the contractor may chose to accept the following guidelines or modify them in the Section 104 Erosion Control Plan, subject to approval of the Engineer. As work progresses, the contractor shall modify the plan to adapt to seasonal variation, changes in construction activities, and the need for better practices.

For each construction phase, install perimeter controls after clearing and grubbing necessary for installation of controls but before beginning other work for the construction phase. Remove perimeter controls only after all upstream areas are stabilized.

Phase I of Traffic Control Plans.

Roadway, Station 501+10 to 520+40 Right:
Immediately after constructing the temporary pavement, stabilize the entire area between the temporary pavement and the right of way line using temporary sod.

Outfall of Pond 1:
Construct the outfall pipe from S-106 towards the pond. The contractor shall have sandbags available at all times during the pipe construction to substantially block runoff in the trench from entering the pipe. Construct pipe to the pond and construct the outlet structure of the pond.

Pond 1 Construction:
Clear and grub the pond site. Initially excavate the pond only enough to construct Type IV Silt Fence as detailed in the TCP. Then excavate the pond to approximate proposed dimensions. Seed (quick growing) and mulch all disturbed areas of the pond site above elevation 51.0. Final grading will be done at the end of phase two of the TCP.

Roadway, Station 510+10 to 523+70 Left:
Construct the storm sewer from the pond to the roadway and then in the upstream direction along the left side of the project. During the subsoil excavation, and construction of the roadway underdrain, storm sewer, and wall, use S-19 as the primary inlet for conveyance to the pond. Stage construct the inlet as detailed in the TCP.

Roadway, Station 501+10 to 510+40 Left:
During the subsoil excavation, and construction of the underdrain, storm sewer, and wall, use S-12 as the primary inlet for conveyance to the Laura Lee pond. S-12 should be constructed before disturbing soil upstream. Stage construct and protect the inlet as detailed in the TCP.

Phase II of the Traffic Control Plan:

Roadway, Station 510+10 to 523+10 Right:
During the subsoil excavation, and construction of the roadway underdrain, and storm sewer, use S-20 as the primary inlet for conveyance to Pond 1. Stage construct and protect the inlet in a manor similar to S-19 in Phase I of the TCP.

Roadway, Station 501+10 to 510+40 Right:
During the subsoil excavation, and construction of the underdrain, storm sewer, and walls, use S-10 as the primary inlet for conveyance to the Laura Lee pond. Stage construct and protect the inlet in a manor similar to S-12 in Phase I of the TCP.

Pond 1 Construction:
After entire basin is permanently stabilized, construct underdrain in the pond bottom.

2.a.1 Stabilization Practices:

In the Section 104 Erosion Control Plan, the contractor shall describe the stabilization practices proposed to control erosion. The contractor shall initiate all stabilization measures as soon as practical, but in no case more than 7 days, in portions of the site where construction activities have temporarily or permanently ceased. The stabilization practices shall include at least the following, unless otherwise approved by the Engineer.

THE PARAGRAPH ABOVE REFERS TO A 7 DAY LIMIT BEFORE INITIATING STABILIZATION. THE DEP GENERIC PERMIT SPECIFIES 7 DAYS, BUT STRICTER REQUIREMENTS FROM OTHER PERMITTING AGENCIES WILL OFTEN APPLY AND SHOULD BE NOTED. FOR EXAMPLE, ST. JOHNS RIVER WATER MANAGEMENT DISTRICT HAS A 7 DAY LIMIT IN 40C-42 F.A.C.

Temporary:
* Artificial coverings in accordance with Specification Section 104.

* Seed and mulch, and sod in accordance with Specification Section 104.

Permanent:
* Asphalt or concrete surface.

* Sod in accordance with Specification Section 575.

2.a.2 Structural Practices:

In the Section 104 Erosion Control Plan, the contractor shall describe the proposed structural practices to control or trap sediment and otherwise prevent the discharge of pollutants from exposed areas of the site. Sediment controls shall be in place before disturbing soil upstream of the control. The structural practices shall include at least the following, unless otherwise approved by the Engineer.

Temporary:
* Silt fence in accordance with Design Standard 102 and Specification Section 104.

* Baled hay or straw in accordance with Design Standard 102 and Specification Section 104.

* Sandbags to control erosion and trap silt.

* Inlet protection in accordance with Design Standard 102 and special details shown in the TCP.

* Sediment Basin. The permanent stormwater ponds will be temporarily modified according to the details in the TCP.

Permanent:
* Stormwater ponds.

* Sod.

2.b Stormwater Management:

Several storm sewer systems will be constructed to convey runoff to three (3) stormwater retention / detention ponds. The facilities have been permitted by the Florida Department of Environmental Protection (FDEP) and the City of Narcoossee and comply with applicable design standards.

EXHIBIT SWP-2
DATE: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		_ _ _

$USER$ $DATE$ $TIME$ $FILE$

STORMWATER POLLUTION PREVENTION PLAN

SHEET NO.

THIS EXHIBIT IS AN EXAMPLE NARRATIVE OF A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR A MAJOR RECONSTRUCTION PROJECT. ACTUAL PROJECT CONDITIONS OFTEN DICTATE DIFFERENT APPROACHES THAN SHOWN HERE. THE ENGINEER IS RESPONSIBLE FOR DEVELOPING A SITE SPECIFIC SWPPP THAT COMPLIES WITH VOLUME I CHAPTER II OF THE PLANS PREPARATION MANUAL.

2.c Other Controls:

2.c.1 Waste Disposal:

In the Section 104 Erosion Control Plan, the contractor shall describe the proposed methods to prevent the discharge of solid materials, including building materials, to waters of the United States. The proposed methods shall include at least the following, unless otherwise approved by the Engineer.

* Providing litter control and collection within the project during construction activities.

* Disposing of all fertilizer or other chemical containers according to EPA's standard practices as detailed by the manufacturer.

* Disposing of solid materials including building and construction materials off the project site but not in surface waters, or wetlands.

2.c.2 Off-Site Vehicle Tracking & Dust Control:

In the Section 104 Erosion Control Plan, the contractor shall describe the proposed methods for minimizing offsite vehicle tracking of sediments and generating dust. The proposed methods shall include at least the following, unless otherwise approved by the Engineer.

* Covering loaded haul trucks with tarpaulins.

* Removing excess dirt from roads daily.

* Stabilizing construction entrances according to Design Standard 106.

* Using roadway sweepers during dust generating activities such as excavation and milling operations.

2.c.3 State and Local Regulations For Waste Disposal, Sanitary Sewer, Or Septic Tank Regulations:

In the Section 104 Erosion Control Plan, the contractor shall describe the proposed procedures to comply with applicable state and local regulations for waste disposal, and sanitary sewer or septic systems.

2.c.4 Fertilizers and Pesticides:

In the Section 104 Erosion Control Plan, the contractor shall describe the procedures for applying fertilizers and pesticides. The proposed procedures shall comply with applicable subsections of either Section 570 or 577 of the Specifications.

2.c.5 Toxic Substances:

In the Section 104 Erosion Control Plan, the contractor shall provide a list of toxic substances that are likely to be used on the job and provide a plan addressing the generation, application, migration, storage, and disposal of these substances.

2.d.4 Approved State and Local Plans and Permits:

* FDEP Rule Chapter 62-25 F.A.C.
* City of Narcoossee Environmental Management Ordinance Number 90-0-0044aa.

3.0 MAINTENANCE:

In the Section 104 Erosion Control Plan, the contractor shall provide a plan for maintaining all erosion and sediment controls throughout construction. The maintenance plan shall at a minimum, comply with the following.

* Silt Fence: Maintain per Section 104. The contractor should anticipate replacing silt fence on 12 month intervals.

* Baled Hay or Straw: Remove sediment when it reaches ½ height of bales or when water ponds in unacceptable amounts or areas. The contractor should anticipate replacing straw bales on 3-month intervals.

* Ponds One and Two: The ponds are temporary sediment basins until the areas that drain to them are stabilized, so until then, remove sediment from the pond when it becomes 1.5' deep at any point.

4.0 INSPECTIONS:

Qualified personnel shall inspect the following items at least once every seven calendar days and within 24 hours of the end of a storm that is 0.50 inches or greater. To comply, the contractor shall install and maintain rain gages and record the daily rainfall. Where sites have been permanently stabilized, inspections shall be conducted at least once every month. The contractor shall also inspect that controls installed in the field agree with the latest Stormwater Pollution Prevention Plan.

* Points of discharge to waters of the United States.

* Points of discharge to municipal separate storm sewer systems.

* Disturbed areas of the site that have not been finally stabilized.

* Areas used for storage of materials that are exposed to precipitation.

* Structural controls.

* Stormwater management systems.

* Locations where vehicles enter or exit the site.

The contractor shall initiate repairs within 24 hours of inspections that indicate items are not in good working order.

If inspections indicate that the installed stabilization and structural practices are not sufficient to minimize erosion, retain sediment, and prevent discharging pollutants, the contractor shall provide additional measures, as approved by the Engineer.

5.0 NON-STORMWATER DISCHARGES:

In the Section 104 Erosion Control Plan, the contractor shall identify all anticipated non-stormwater discharges (except flows from fire fighting activities). The contractor shall describe the proposed measures to prevent pollution of these non-stormwater discharges. If the contractor encounters contaminated soil or groundwater, contact Dave Letterman, District Hazardous Materials Coordinator at 305-63BR549.

EXHIBIT SWP-3
DATE: 1/1/06

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		_ _ _

STORMWATER POLLUTION PREVENTION PLAN

SHEET NO.

$USER$ $DATE$ $TIME$ $FILE$