

# CONSTRUCTION PLANS THREE OAKS PARKWAY EXTENSION AIRPORT CANAL TO DANIELS PKWY.

LEE COUNTY PROJECT NO. 4053



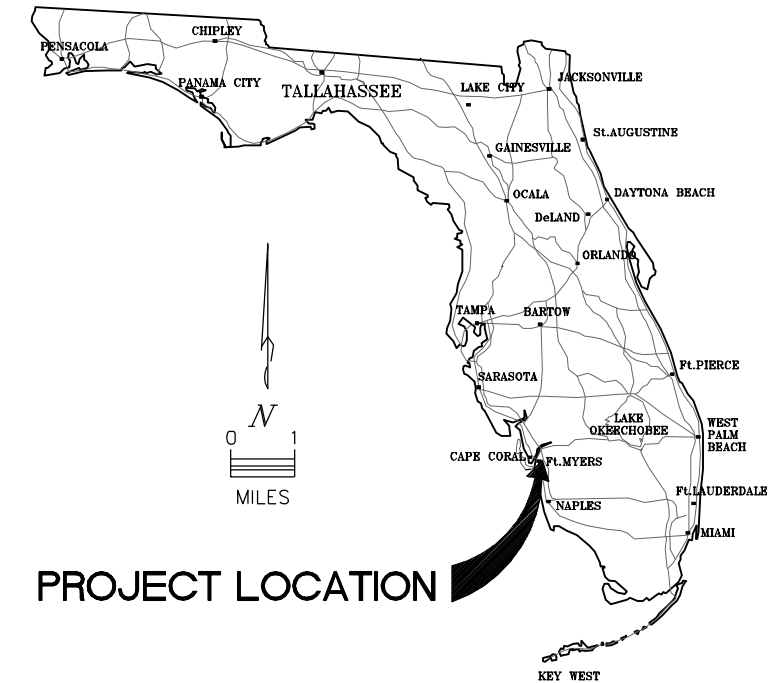
**BOARD OF LEE COUNTY COMMISSIONERS**

District ONE <i>Bob Janes</i>	District TWO <i>Brian Bigelow</i>	District THREE <i>Ray Judah</i>	District FOUR <i>Tammy Hall</i>	District FIVE <i>Frank Mann</i>
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**INTERIM LEE COUNTY MANAGER**  
*Karen Hawes*

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**

*Scott M. Gilbertson P.E., Director*  
*Eyra Cash, P.E., Project Manager*



**PROJECT LOCATION**  
N.T.S.

**VICINITY MAP**  
N.T.S.

**ADDITIONAL PLAN SETS  
PROVIDED UNDER SEPARATE COVER:**

- LIGHTING PLANS (N.I.)
- LANDSCAPE PLANS (N.I.)
- IRRIGATION PLANS (N.I.)
- SIGNALIZATION PLANS (N.I.)
- BOX CULVERT PLANS (N.I.)

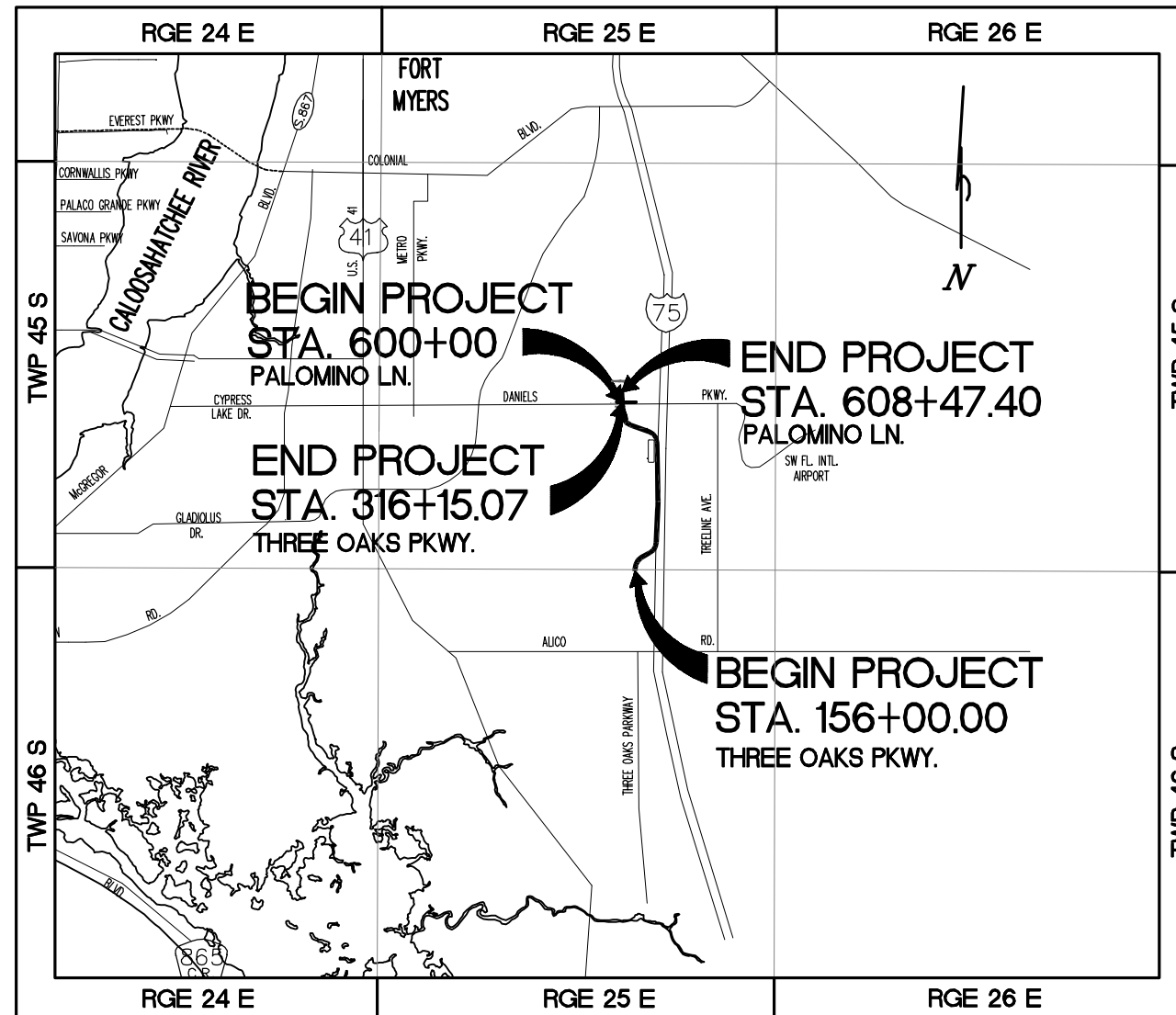
**THIS CONTRACT PLAN SET INCLUDES**

- ROADWAY PLANS
- SIGNING AND STRIPING PLANS (SHEET S-1 THRU S-24)
- UTILITY ADJUSTMENT PLANS (SHEETS U-1 THRU U-13)

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT SET OF PLANS

**INDEX OF ROADWAY PLANS**

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**LOCATION MAP**  
N.T.S.

LENGTH OF PROJECT		
	FEET	MILES
ROADWAY	16,786.08	3.18
BRIDGES	0	0
NET LENGTH OF PROJECT	16,786.08	3.18
EXCEPTIONS	0	0
GROSS LENGTH OF PROJECT	16,786.08	3.18

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

EXCEPT WHERE OTHERWISE INDICATED BY SPECIAL PROVISION, THE GOVERNING SPECIFICATIONS SHALL BE: STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS DATED 2007, DESIGN STANDARDS DATED 2008, AND SUPPLEMENTS THERETO IF NOTED IN THE SPECIAL PROVISIONS FOR THIS PROJECT.

ROADWAY PLANS  
ENGINEER OF RECORD: JACK SCHRAGER, P.E.  
FL. LICENSE NO. 24070

P:\CAD\2008\08-31\2PLOT\COVER.dwg, 1, 8/20/2009 8:55:35 AM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
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**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**COVER SHEET**  
**THREE OAKS PKWY EXT.**

SHEET  
1 OF 121

**PAY ITEM NOTES**

102- 1	UNIT COST TO INCLUDE ALL WORK AND MATERIAL ASSOCIATED WITH BUT NOT LIMITED TO, TEMPORARY PAVEMENT MARKINGS, TEMP. SIGNING, TRAFFIC SAFETY, TRAFFIC DETOURS, TEMP. BARRICADES, SERVICE PATROL, DRIVEWAY MAINTENANCE, AND TEMP. PAVEMENT.
104-	ARE ESTIMATED FOR PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND POLLUTION AND ARE TO BE USED AT LOCATIONS DESIGNATED BY THE PLANS, DESIGN STANDARDS, SPECIFICATIONS, OR AS DIRECTED BY THE ENGINEER.
104-10	QUANTITY BASED ON USE OF BALES AROUND INLETS AND JUNCTION BOXES ONLY.
104-13	QUANTITY BASED ON PLACEMENT ALONG ENTIRE PROJECT RIGHT-OF-WAY.
110-1-1	QUANTITY SHALL INCLUDE EXISTING PIPE REMOVAL AND EXISTING STRUCTURE REMOVAL (INCLUDING INLETS AND JUNC. BOXES) AS DESIGNATED TO BE REMOVED ON THE PLANS. PIPE REMOVAL SHALL EXTEND FROM STRUCTURE TO STRUCTURE AND SHALL INCLUDE DISPOSAL. PARTIAL PIPE REMOVAL WITH PLUGGING REMAINDER SHALL NOT BE PERMITTED. PAY ITEM SHALL ALSO INCLUDE REMOVAL AND DISPOSAL OF ALL PAVEMENT AND BASE NOT INCLUDED IN OTHER PAY ITEMS.
120-6	ANY BORROW EXCAVATION REQUIRED SHALL BE FURNISHED BY THE CONTRACTOR FROM AREAS PROVIDED BY HIM AND MEETING MATERIAL REQUIREMENTS. THE COST OF FURNISHING, TRUCKING, AND PLACEMENT OF SUCH MATERIAL IS TO BE INCLUDED IN THE PRICE FOR EMBANKMENT.
285-	OPTIONAL BASE GROUP SHALL INCLUDE BITUMINOUS MATERIAL (PRIME AND TACK COAT) AS REQUIRED FOR SPECIFIC BASE OPTION SELECTED.
327-70-1	MILLING OPERATION SHALL INCLUDE REMOVAL AND DISPOSAL OF THE CONC. ASPHALT.
400-1-XX	UNIT COST TO INCLUDE ALL WORK AND MATERIAL ASSOCIATED WITH PLACEMENT OF CONCRETE INCLUDING REINFORCEMENT. THIS PAY ITEM SHALL INCLUDE THE CONSTRUCTION OF PEDESTRIAN TRAFFIC ISLANDS, CONCRETE CURBING AT COMMERCIAL DRIVEWAYS, MEDIAN NOSES, AND MISC. CONCRETE NOT COVERED IN OTHER PAY ITEMS ASSOCIATED WITH THE PROJECT.
425-1-XXX	UNIT COST TO INCLUDE ALL WORK AND MATERIAL ASSOCIATED WITH REMOVAL OF EXISTING STORM DRAIN STRUCTURES (WHERE DESIGNATED ON PLANS).
430-	OPTIONAL PIPE MATERIALS WILL BE ACCEPTABLE WHERE "SD" IS INDICATED ON THE PLANS AND APPROVED BY THE COUNTY AND/OR ENGINEER BEFORE CONTRACTOR'S ACQUISITION. UNIT COST TO INCLUDE ALL WORK AND MATERIAL ASSOCIATED WITH THE PROJECT.
430-982-XXX	UNIT COST TO INCLUDE ALL WORK AND MATERIAL ASSOCIATED WITH CONSTRUCTION OF THE MITERED END SECTION INCLUDING: CONCRETE, REINFORCEMENT, PIPE, GRADING, AND SOD.
520-X-X	QUANTITY AND PAYMENT INCLUDES LENGTH OF DROP CURB TRANSITIONS ALONG GRADE LINE PLUS THE LENGTH OF VALLEY GUTTER, CURB FLARES, MOWER RAMPS WITH TRANSITIONS, AND THE TRANSITION TIE-INS TO EXISTING MEDIANS.
520-5-12	UNIT COST TO INCLUDE ALL WORK AND MATERIAL ASSOCIATED WITH CONSTRUCTION OF THE CONCRETE TRAFFIC SEPARATOR INCLUDING: CONCRETE, REINFORCEMENT, EXPANSION JOINT, ADHESIVE AND DOWELS.
522-X	CONCRETE SIDEWALK SHALL INCLUDE CONSTRUCTION OF HANDICAP RAMPS AS DETAILED HEREIN AND IN ACCORDANCE WITH F.D.O.T. AND A.D.A. REQUIREMENTS.
522-2	UNIT COST TO INCLUDE ALL WORK AND MATERIAL ASSOCIATED WITH CONSTRUCTION OF THE CONCRETE SIDEWALK AND COMMERCIAL DRIVEWAYS.
530-3-4	UNIT COST TO INCLUDE ALL WORK AND MATERIAL ASSOCIATED WITH INSTALLATION OF RIPRAP INCLUDING COST TO FURNISH AND INSTALL FILTER FABRIC. UNIT MEASURED IN SQUARE YARDS.

**SUMMARY OF ROADWAY PAY ITEMS**

Item Number	Item Description	QUANTITY	UNIT	NOTES
<b>Roadway Items:</b>				
101-1	MOBILIZATION, SURVEY, LAYOUT, AND RECORD DRAWINGS	1	LS	
102-1	MAINTENANCE OF TRAFFIC	1	LS	
104-10-1	HAY OR STRAW BALES	500	EA	
104-11	TURBIDITY BARRIER (FLOATING)	520	LF	
104-13-1	SILT FENCE STAKED (TYPE III)	42,000	LF	
104-100	NPDES POLLUTION CONTROL	1	LS	NPDES POLLUTION CONTROL
110-1-1	CLEARING AND GRUBBING	1	LS	PROJECT ROW AREA (126 ACRES +/-)
120-1	EXCAVATION REGULAR	366,848	CY	
120-4	EXCAVATION SUBSOIL	0	CY	
120-6	EMBANKMENT (ON SITE) - IN PLACE	345,070	CY	
120-6	EMBANKMENT (INCLUDES BORROW) - IN PLACE	0	CY	
160-4	STABILIZATION TYPE B (12")	135,522	SY	INCL. DANIELS PKWY AND PALOMINO LANE
162-1-11	FINISH SOIL LAYER (MEDIAN GRASSING OPERATION)	62,478	SY	
285-708-287	ASPHALT BASE COURSE (ABC 3) (6")	0	TN	
285-709	OPTIONAL BASE (BASE GROUP #09)	116,052	SY	INCL. DANIELS PKWY AND PALOMINO LANE
327-70-1	MILLING EXIST ASPH PAVT (1" AVG DEPTH)	18,100	SY	DANIELS PKWY
331-2 (SURF)	ASPHALTIC CONCRETE TYPE S-III (1") SURFACE COURSE	133,912	SY	INCL. DANIELS PKWY AND PALOMINO LANE
331-2 (STR)	ASPHALTIC CONCRETE TYPE S-I (2-1/2") STRUCTURAL COURSE	115,842	SY	INCL. DANIELS PKWY AND PALOMINO LANE
400-1-2	CONCRETE CLASS I (ENDWALLS) (INCLUDES REINFORCEMENT)	77	CY	STORM DRAIN LAKE CONNECTION
400-1-11	CLASS I CONCRETE (RETAINING WALL, INC. REINFORCEMENT)	26	CY	GRAVITY WALL ALONG CVS WEST PROPERTY LINE
400-1-15	MISC. CONCRETE (CLASS I)	50	CY	MEDIAN NOSES, COMM. DRWY, & PALOMINO MEDIAN
425-1-331	INLETS (CURB) ( TYPE P-3) (<10')	17	EA	
425-1-337	INLETS (CURB) ( TYPE P-3) (<10') (W / J BOTTOM)	2	EA	
425-1-341	INLETS (CURB) ( TYPE P-4) (<10')	48	EA	
425-1-342	INLETS (CURB) ( TYPE P-4) (>10')	7	EA	
425-1-345	INLETS (CURB) ( TYPE P-4) (PARTIAL) (TOP ONLY)	1	EA	
425-1-347	INLETS (CURB) ( TYPE P-4) (<10') (W / J BOTTOM)	5	EA	
425-1-348	INLETS (CURB) ( TYPE P-4) (>10') (W / J BOTTOM)	7	EA	
425-	INLETS (TYPE C) (WITH ALT. 'A' STRUCTURE BOTTOM)	0	EA	
425-1-559	INLETS (TYPE E) (STANDARD AND MODIFIED)	5	EA	INCL. 4 LAKE CONTROL STRUCTURES
425-2-41	JUNCTION BOX (TYPE P-7T) (<10')	8	EA	
425-2-43	JUNCTION BOX (TYPE P-7T) (PARTIAL) (TOP ONLY)	2	EA	
425-2-61	JUNCTION BOX (TYPE P-8T) (<10')	11	EA	
425-2-62	JUNCTION BOX (TYPE P-8T) (>10')	5	EA	
425-2-91	JUNCTION BOX ( TYPE P-8T) (<10') (W / J BOTTOM)	5	EA	
425-2-92	JUNCTION BOX ( TYPE P-8T) (>10') (W / J BOTTOM)	11	EA	
425-5	ADJUST MANHOLE (STORM DRAIN)	1	EA	
425-51	ADJUST MANHOLE (SANITARY SEWER)	3	EA	
425-6	ADJUST VALVE BOX (WATER, IRRIGATION, AND FORCE MAIN)	2	EA	
430-171-123	PIPE CULVERT OPTIONAL MATERIAL (15")	20	LF	
430-171-125	PIPE CULVERT OPTIONAL MATERIAL (18")	5,092	LF	
430-171-129	PIPE CULVERT OPTIONAL MATERIAL (24")	1,508	LF	
430-171-133	PIPE CULVERT OPTIONAL MATERIAL (30")	4,465	LF	
430-171-138	PIPE CULVERT OPTIONAL MATERIAL (36")	2,872	LF	
430-171-140	PIPE CULVERT OPTIONAL MATERIAL (42")	995	LF	
430-171-141	PIPE CULVERT OPTIONAL MATERIAL (48")	1,578	LF	
430-171-223	PIPE CULVERT OPTIONAL MATERIAL (12" x 18")	231	LF	
430-171-225	PIPE CULVERT OPTIONAL MATERIAL (14" x 23")	507	LF	
430-171-229	PIPE CULVERT OPTIONAL MATERIAL (19" x 30")	48	LF	
430-171-233	PIPE CULVERT OPTIONAL MATERIAL (24" x 38")	175	LF	
430-171-238	PIPE CULVERT OPTIONAL MATERIAL (29" x 45")	168	LF	

CONTINUATION NEXT SHEET

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**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**SUMMARY OF PAY ITEMS**  
**THREE OAKS PKWY. EXT.**

**EARTHWORK NOTES:**

- EARTHWORK QUANTITIES HAVE BEEN CALCULATED USING LIMEROCK OPTIONAL BASE COURSE DEPTHS. IF A DIFFERENT OPTIONAL BASE IS CONSTRUCTED, THERE SHALL BE NO REVISION TO THE EARTHWORK QUANTITIES FOR WHICH PAYMENT IS MADE BY PLAN QUANTITY.
- ALL EXCAVATIONS & EMBANKMENTS QUANTITIES ARE IN PLACE VOLUMES WITH NO FACTORS APPLIED. INCLUDING SHRINKAGE OR EXPANSION FACTORS OR DEDUCTIONS FOR DRAINAGE STRUCTURES.
- EARTHWORK QUANTITIES CALCULATED USING THE AVERAGE END AREA METHOD.
- THE ORIGINAL GROUND LINE IS THE EXISTING GRADE LINE SHOWN ON THE CROSS SECTIONS AS DETERMINED BY TOPOGRAPHIC SURVEY PRIOR TO THE CONSTRUCTION ACTIVITIES. NO ALLOWANCES WERE MADE TO THE ESTIMATED QUANTITIES FOR SOIL REMOVAL DURING CLEARING & GRUBBING OPERATIONS.
- THE CONTRACTOR SHALL MAKE HIS OWN ESTIMATE ON THE VOLUME OF MATERIAL REQUIRED TO OBTAIN THE PAY SECTION. SIMILARLY, THE CONTRACTOR SHALL MAKE HIS OWN ESTIMATE ON THE VOLUME OF EXCAVATED MATERIALS THAT MAY BE USED AS EMBANKMENT. PAYMENT SHALL BE PER PLAN QUANTITY SUBJECT TO THE PROVISIONS OF 9-3.2 IN THE FDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGES - 2007.

Item Number	Item Description	QUANTITY	UNIT	NOTES
<b>Roadway Items:</b>				
430-1	BOX CULVERT (3'X8') (SINGLE BARREL)	2	EA	
430-2	BOX CULVERT (8'X12') (TRIPLE BARREL)	1	LS	
430-982-623	MITERED END SECTION (12"x18")	7	EA	
430-982-625	MITERED END SECTION (14"x23")	4	EA	
430-982-629	MITERED END SECTION (19"x30")	2	EA	
430-982-633	MITERED END SECTION (24"x38")	3	EA	
436-1-1	TRENCH DRAIN	40	LF	INCL. CONCRETE
520-1-7	CURB AND GUTTER CONCRETE (TYPE E)	32,777	LF	INCL. RAMPS
520-1-10	CURB AND GUTTER CONCRETE (TYPE F)	32,850	LF	INCL. RAMPS & CURB FLARED ENDS
520-5-12	CONCRETE TRAFFIC SEPARATOR (TYPE I - 6' WIDE)	1,310	LF	OPTION 1 OR 2
522-1	SIDEWALK CONCRETE (4" THICK)	22,224	SY	
522-2	SIDEWALK CONCRETE (6" THICK)	310	SY	
530-3	RIP RAP (6" - 24" ROCK BOULDER)	90	SY	INCLUDES FILTER FABRIC
536-1-8	GUARDRAIL (ROADWAY, WITH RUB RAIL)	728	LF	
536-85-22	GUARDRAIL END ANCHORAGE ASSEMBLY FLARED (TYPE MELT)	2	EA	
570-1	PERFORMANCE TURF (SEED & MULCH)	0	SY	
570-1-2	PERFORMANCE TURF, SOD (BAHIA)	188,410	SY	
1090-137-05	MISC. 2" SLEEVES (SDR 26 PVC)	1,000	LF	
1090-137-07	MISC. 4" SLEEVES (SDR 26 PVC)	1,000	LF	

NOTE: SEE SIGNING & PAVEMENT MARKING PLAN SET FOR SIGNING & PAVEMENT MARKING PLAN PAY ITEMS AND QUANTITIES

SUMMARY OF EARTHWORKS			
DESCRIPTION	CY		
REGULAR EXCAVATION	P	F	
THREE OAKS PARKWAY EXTENTION	845		
PALOMINO LANE	1,182		
DANIELS PKWY. (WIDENING)	900		
SHOPS AT FIDDLESTICKS (SOUTH ENTRANCE)	0		
FIDDLESTICKS BLVD.	0		
LAKE 'A'	93,359		
LAKE 'B'	82,919		
LAKE 'C'	131,929		
LAKE 'D'	24,886		
LAKE 'E'	30,753		
SWALES	76		
<b>TOTAL VOLUME</b>	<b>366,848</b>		
EMBANKMENT (ON SITE)			
THREE OAKS PARKWAY EXTENTION	315,636		
PALOMINO LANE	1,042		
DANIELS PKWY. (WIDENING)	400		
SHOPS AT FIDDLESTICKS (SOUTH ENTRANCE)	450		
FIDDLESTICKS BLVD.	1,081		
LAKE 'A'	6,845		
LAKE 'B'	4,257		
LAKE 'C'	9,133		
LAKE 'D'	2,956		
LAKE 'E'	3,207		
SWALES	63		
<b>TOTAL VOLUME</b>	<b>345,070</b>		

CONCRETE CLASS I (ENDWALL)				
STRUCTURE I.D.	LOCATION		PIPE SIZE	VOLUME
	STATION	OFFSET		C.Y.
EW-A1	161+88.66	367.84' RT.	18"	1.56
EW-A2	161+55.00	116.17' RT.	18"	1.56
EW-A3	165+38.00	116.17' RT.	18"	1.56
EW-A4	168+84.00	142.00' RT.	48"	8.15
EW-A5	168+63.00	117.00' RT.	18"	1.56
EW-A6	194+48.52	74.07' LT.	24"x38"	2.64
EW-A7	194+48.52	73.89' RT.	24"x38"	2.64
EW-B1	221+41.58	710.26' LT.	18"	1.56
EW-B2	221+50.91	127.62' LT.	30"	3.26
EW-B3	224+20.53	131.37' LT.	36"	4.53
EW-C1	254+82.80	704.39' LT.	18"	1.56
EW-C2	251+99.33	123.75' LT.	24"	2.24
EW-C3	254+60.00	116.10' LT.	18"	1.56
EW-C4	259+90.00	118.25' LT.	18"	1.56
EW-C5	265+04.63	116.17' LT.	24"	2.24
EW-C6	266+60.00	116.17' LT.	18"	1.56
EW-C7	269+44.28	126.53' LT.	36"	4.53
EW-C8	247+57.45	74.17' LT.	30"	3.26
EW-C9	247+58.04	74.17' RT.	30"	3.26
EW-C10	275+02.84	72.16' LT.	30"	3.26
EW-C11	273+79.23	77.75' RT.	30"	3.26
EW-D1	301+35.13	129.18' RT.	36"	4.53
EW-D2	299+00.17	118.17' RT.	30"	3.26
EW-E1	298+89.24	366.34' LT.	18"	1.56
EW-E2	296+29.52	133.86' LT.	30"	3.26
EW-E3	298+99.81	121.11' LT.	30"	3.26
EW-E4	302+08.28	109.34' LT.	29"x45"	3.32
<b>TOTAL VOLUME</b>				<b>76.50</b>

**ENDWALL NOTE:**  
QUANTITY CALCULATIONS PER FDOT INDEX 250

CONCRETE CLASS I (GRAVITY WALL)	
LOCATION	VOLUME
STA TO STA	CY
313+11.4 TO 314+81.4	26

**GRAVITY WALL NOTE:**  
QUANTITY CALCULATED USING AN AVERAGE WALL HEIGHT OF 1.40 FEET AND FDOT INDX 520.

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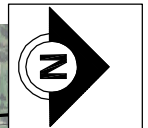
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**SUMMARY OF PAY ITEMS**  
**THREE OAKS PKWY. EXT.**

SHEET  
**3 OF 121**



0' 150' 300' 600'  
SCALE: 1" = 600'

FIDDLESTICKS  
(36-00261-S)  
CONTROL EL.=15.00'NGVD

EXIST WEIR - SEE SURFACE  
WATER MANAGEMENT PLANS  
FOR AIRPORT DITCH  
WEIR CREST EL.=17.5'

ORIOLE ROAD INTERSECTION  
AND CONNECTION  
(36-05268-P)

DRAINAGE BASIN "A-1"  
(1.22 AC)

PROP. BOX CULVERT

135+22 140+00 145+00 150+00 155+00 160+00

PROP. C.S.  
PROP. 3-OAKS  
LAKE "A"  
5.96 AC

DRAINAGE BASIN "A"  
(26.00 AC)

EXISTING  
BORROW PIT

AIRPORT CONVEYANCE DITCH

EX. DITCH & UNPAVED ROAD

PROP. CROSS DRAIN

EX. SWALE

PROP. CROSS DRAIN

185+00 190+00 195+00 200+00 205+00 210+00 215+00 220+00

THREE OAKS PKWY. EXT.

I-75 BRIDGE

FL. 17.60  
PROP 30" SD

FL. 17.00

EX. 24" SD  
PROP 24" SD  
FL. 17.80

FL. 17.40

I-75

EXIST WEIR - SEE SURFACE  
WATER MANAGEMENT PLANS  
FOR AIRPORT DITCH

TERMINAL ACCESS  
ROADWAY SYSTEM  
SWFLA  
(36-00080-S)

EXISTING BORROW  
PIT

BEGIN CONSTRUCTION  
STA 156+00 THREE OAKS PKWY. EXT.

P:\CAD\2008\08-372\PL01\DRAINAGE BASINS AERIAL MAP.dwg, 4/8/20/2009 8:56:05 AM, Avalon Engineering Inc.

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PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

AVALON ENGINEERING, INC.  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

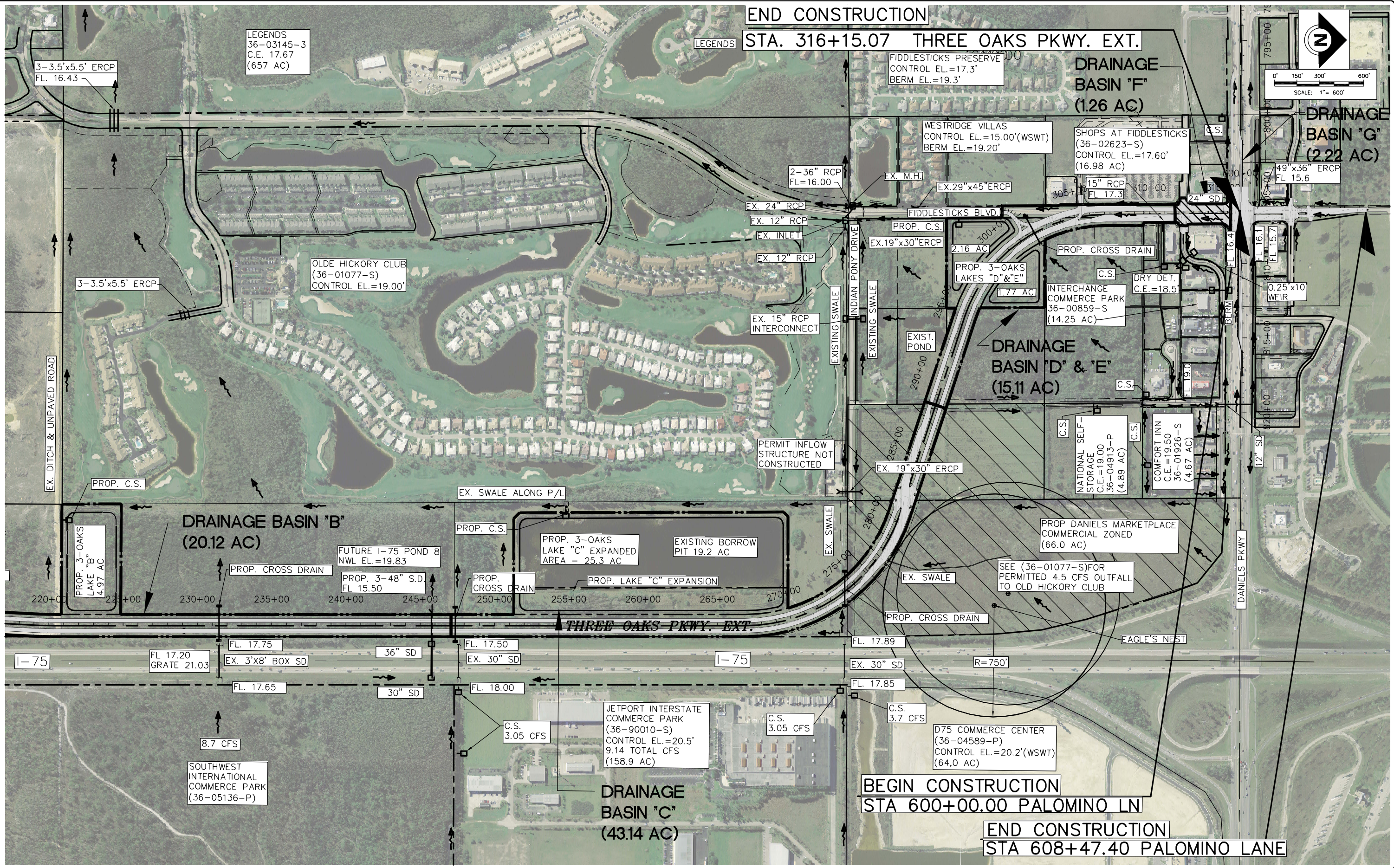
LEE COUNTY DEPARTMENT  
OF  
TRANSPORTATION  
(239) 533-8580

THREE OAKS PARKWAY EXTENSION  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

DRAINAGE BASIN MAP  
THREE OAKS PKWY. EXT.

SHEET  
4 OF 121

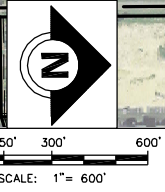
P:\CAD\2008\08-372\PLT\DRAINAGE BASINS AERIAL MAP.dwg, 5/8/2009 8:56:34 AM, Avalon Engineering Inc.



LEGENDS  
36-03145-3  
C.E. 17.67  
(657 AC)

LEGENDS

END CONSTRUCTION  
STA. 316+15.07 THREE OAKS PKWY. EXT.



DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
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FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**DRAINAGE BASIN MAP**  
**THREE OAKS PKWY. EXT.**

SHEET  
**5 OF 121**

# THREE OAKS PARKWAY EXT. AND DANIELS PKWY. – MAINLINE PAVEMENT

## SURFACE COURSE

TYPE "S-111" SURFACE COURSE (1")  
 TYPE "S-1" STRUCTURAL COURSE (2.5")

## SUBGRADE

12" TYPE B STABILIZATION (MIN. LBR 40)

## BASE COURSES PERMITTED

(OPTIONAL BASE GROUP 9)

10" LIMEROCK BASE (LBR 100)  
 10" SHELL ROCK (LBR 100)  
 6" ABC-3 (MIN. MARSHALL STABILITY 1000)

NOTE: USE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2000 EDITION FOR:  
 SECTION 280 – ASPHALT BASE COURSE CONSTRUCTION  
 SECTION 331 – TYPE S ASPHALT CONCRETE CONSTRUCTION

FOR ADDITIONAL DETAILS SEE FDOT STANDARD INDEX NO. S 280, 281, 500, 505, 506, 510, 514, 515 AND 516

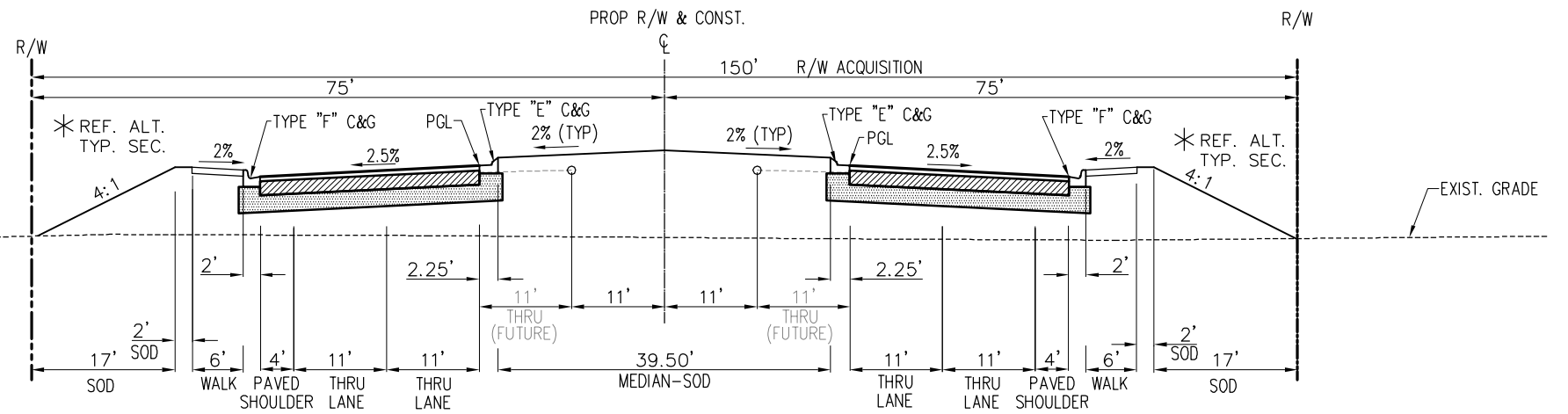
## TRAFFIC DATA:

THREE OAKS PARKWAY EXT. TO DANIELS PARKWAY INTERSECTION

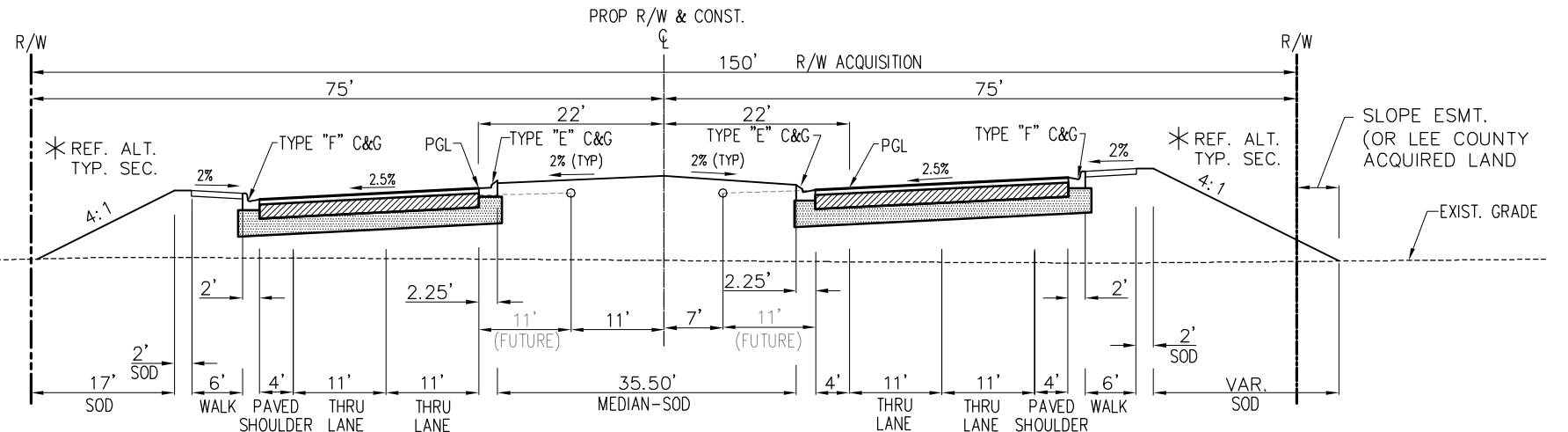
DESIGN YEAR EST. 2026 A.A.D.T. = 37,900  
 DESIGN SPEED = 45 MPH (THREE OAKS PARKWAY)

## LEGEND

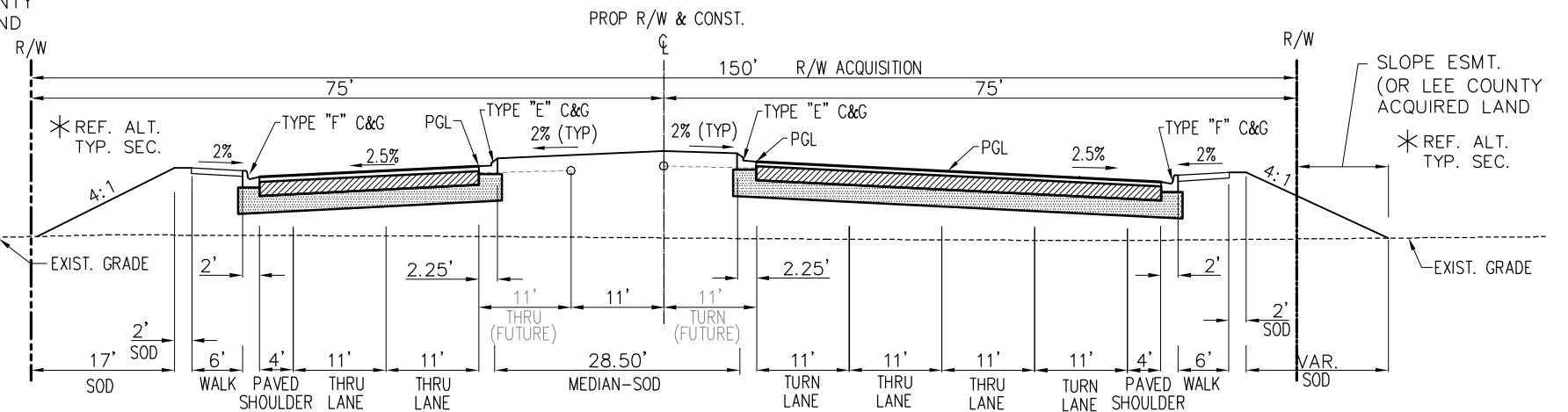
 NEW PAV'T SECTION



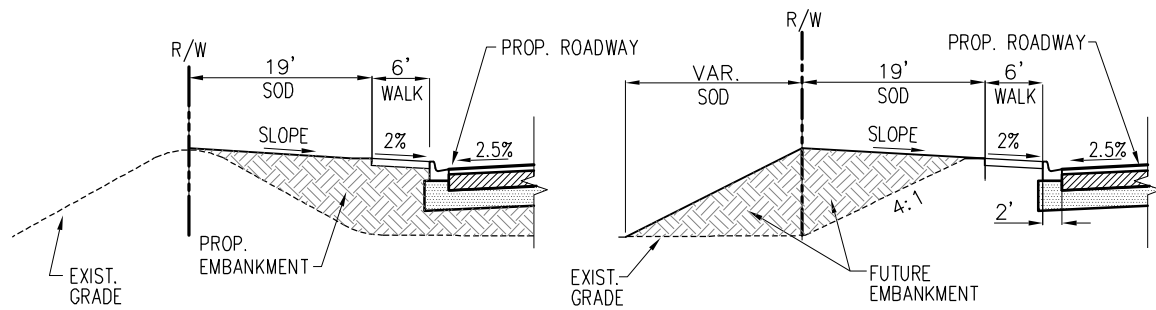
**THREE OAKS PARKWAY  
 TYPICAL SECTION  
 (NORMAL CROWN)**  
 N.T.S.



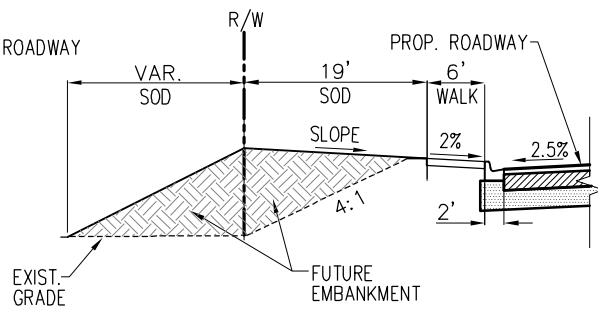
**THREE OAKS PARKWAY  
 TYPICAL SECTION  
 (SUPER ELEVATION)**  
 N.T.S.



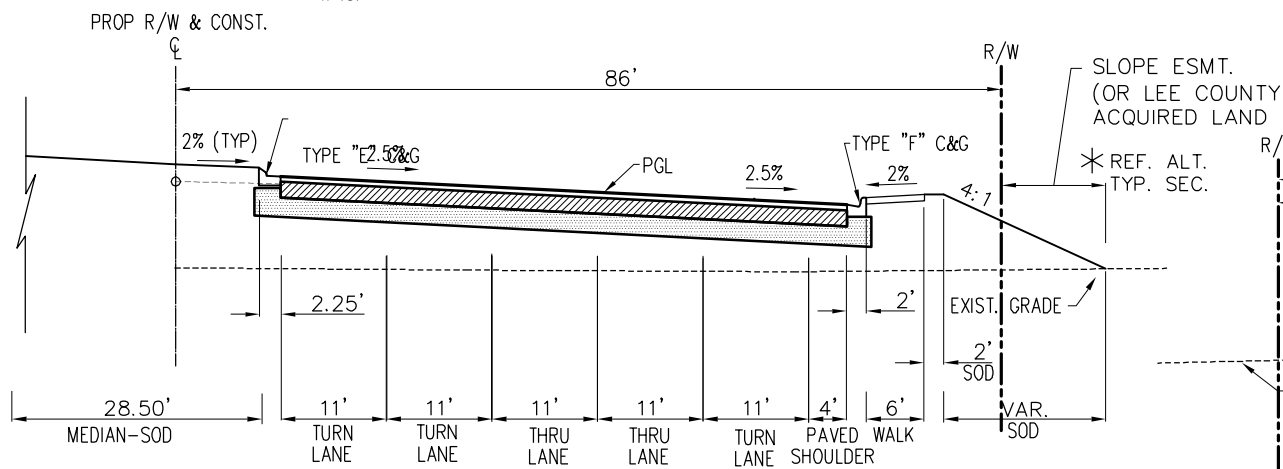
**THREE OAKS PARKWAY  
 TYPICAL SECTION  
 (LT & RT TURN LANES)**  
 N.T.S.



**THREE OAKS PARKWAY  
 ALT. SECTION ALONG  
 ADJ. ROADWAY PROPERTY THAT  
 HAS BEEN FILLED**  
 N.T.S.



**THREE OAKS PARKWAY  
 ALT. SECTION ALONG  
 ADJ. PROPERTY (FUTURE) FILL**  
 N.T.S.



**THREE OAKS PARKWAY  
 TYPICAL SECTION  
 (DUAL LT TURN LANE)**  
 N.T.S.

P:\CAD\2008\08-372\PLOTTYP-SECT.dwg, 6/8/2009 8:57:36 AM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
 (AUGUST – 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
 PROJ. MGR. Jack Schragger, PE  
 PROJ. DIR.  
 APPROVED:

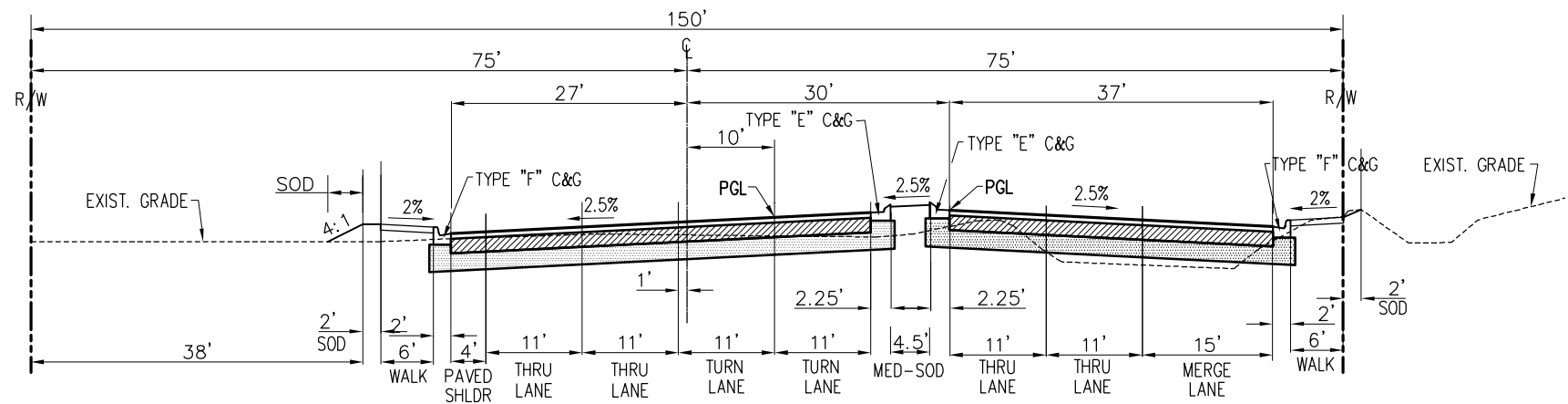
**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT  
 OF  
 TRANSPORTATION**  
 (239) 533-8580

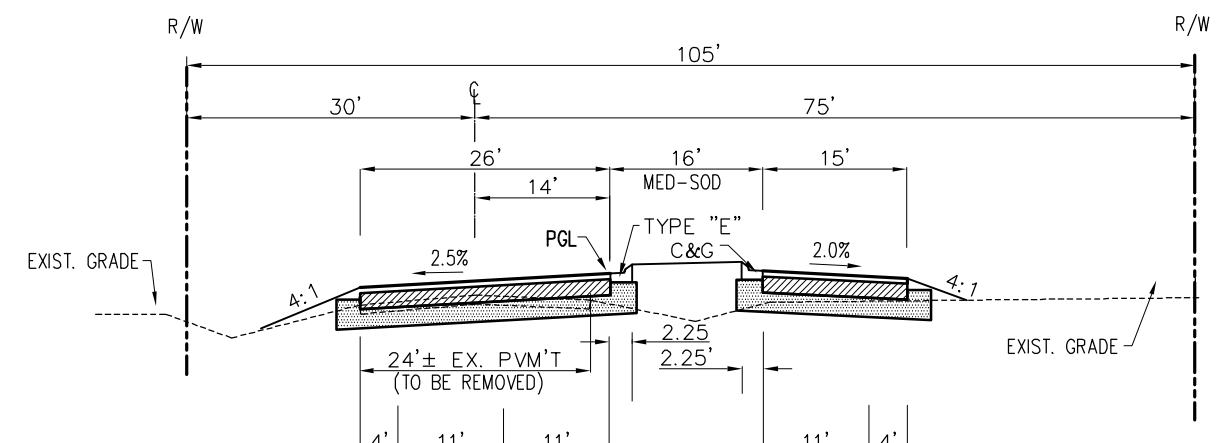
**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**TYPICAL SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**6 OF 121**



**PALOMINO LANE**  
**TYPICAL SECTION (STA. 601+00 TO 603+20)**  
 N.T.S.



**PALOMINO LANE**  
**TYPICAL SECTION (STA. 603+20 TO 604+48)**  
 N.T.S.

**PALOMINO LANE PAVEMENT**

**SURFACE COURSE**

TYPE "S-111" SURFACE COURSE (1")  
 TYPE "S-1" STRUCTURAL COURSE (2.5")

**SUBGRADE**

12" TYPE B STABILIZATION (MIN. LBR 40)

**BASE COURSES PERMITTED**

(OPTIONAL BASE GROUP 9)  
 10" LIMEROCK BASE (LBR 100)  
 10" SHELL ROCK (LBR 100)  
 6" ABC-3 (MIN. MARSHALL STABILITY 1000)

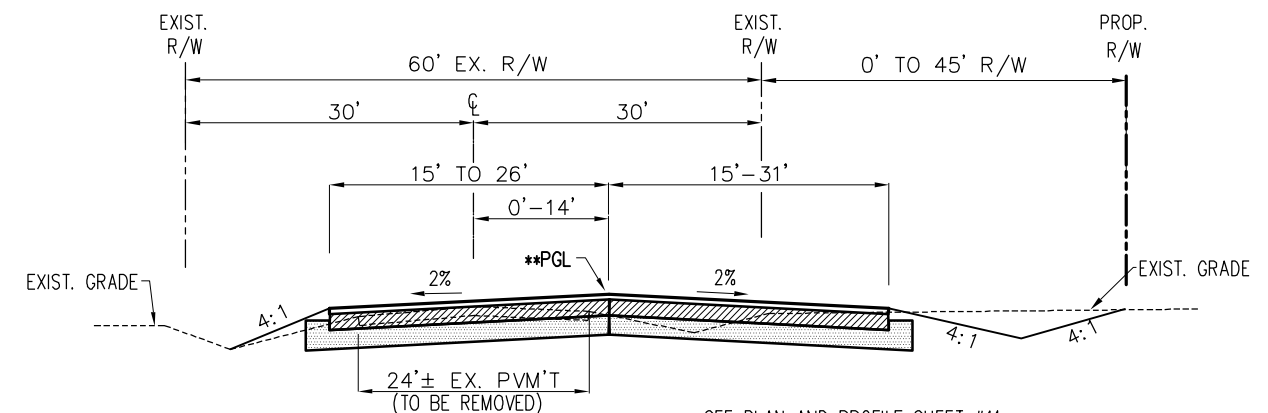
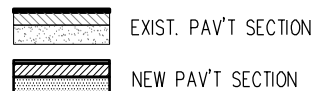
NOTE: USE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2000 EDITION FOR:  
 SECTION 280 - ASPHALT BASE COURSE CONSTRUCTION  
 SECTION 331 - TYPE S ASPHALT CONCRETE CONSTRUCTION

FOR ADDITIONAL DETAILS SEE FDOT STANDARD INDEX NO. S 280, 281, 500, 505, 506, 510, 514, 515 AND 516

**NOTES**

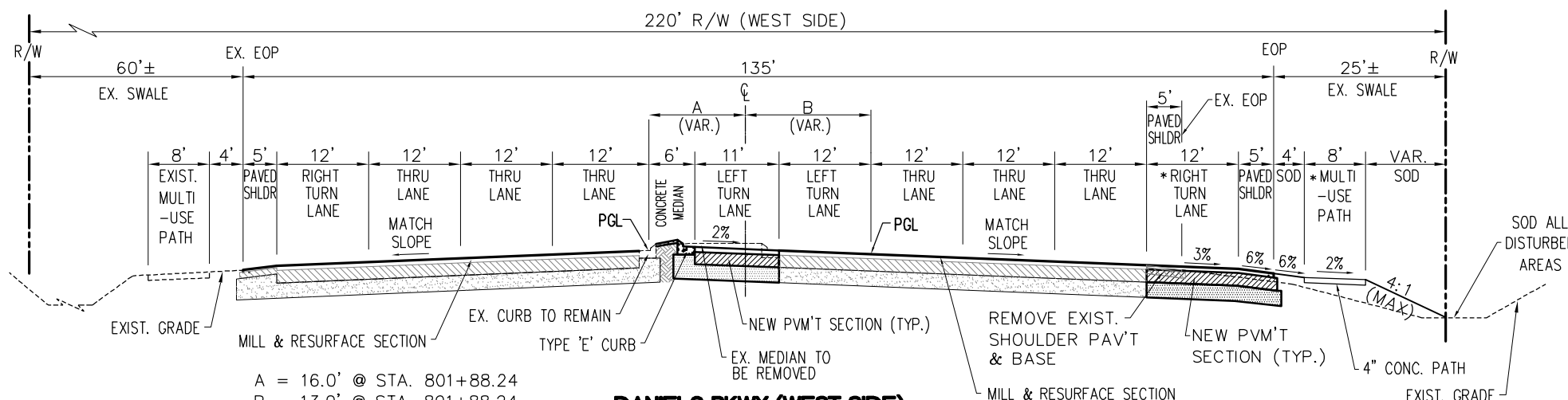
1. DESIGN SPEED 30 M.P.H. (PALOMINO LANE)

**LEGEND**



**PALOMINO LANE**  
**TYPICAL SECTION (STA. 604+48 TO 608+47.40)**  
 N.T.S.

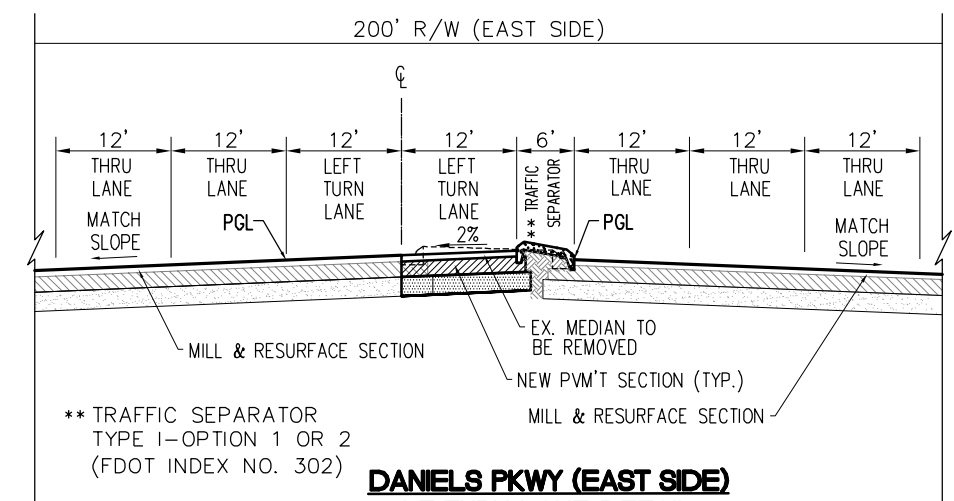
\*\* SEE PLAN AND PROFILE SHEET #41



**DANIELS PKWY (WEST SIDE)**  
**TYPICAL SECTION**  
**(LT & RT TURN LANES)**  
 N.T.S.

A = 16.0' @ STA. 801+88.24  
 B = 13.0' @ STA. 801+88.24  
 A = 13.0' @ STA. 805+14.78  
 B = 16.0' @ STA. 805+14.78

\* NEW PAVEMENT AND SIDEWALK LOCATION AS INDICATED ON PLANS.



**DANIELS PKWY (EAST SIDE)**  
**LT TURN LANE DETAIL**  
 N.T.S.

\*\* TRAFFIC SEPARATOR TYPE 1-OPTION 1 OR 2 (FDOT INDEX NO. 302)

P:\CAD\2008\08-372\PLOTTYP-SECT.dwg, 7/8/20/2009 8:58:10 AM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
 (AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
 PROJ. MGR. Jack Schrager, PE  
 PROJ. DIR.  
 APPROVED:

**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**TYPICAL SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**7 OF 121**





P:\CAD\2008\08-372PLOTSUMDS.dwg, 9/8/2010 8:59:40 AM, Avalon Engineering Inc.

QUANTITY	No. STR	SIDE	STATION	DESCRIPTION	CURB INLET										JUNCTION BOX					SWALE INLET		MITERED END SECTION				REMARKS									
					15" SD	18" SD	24" SD	30" SD	36" SD	42" SD	48" SD	12"x18" ERCP	14"x23" ERCP	19"x30" ERCP	24"x38" ERCP	29"x45" ERCP	P-3	P-3U	P-4	P-4	P-4U	P-4J	P-7T	P-8T	P-8T		P-8TU	P-8TJ	C	E	12"x18"	14"x23"	19"x30"	24"x38"	
																		<10'	<10'	<10'	>10'	<10'	>10'	<10'	<10'		>10'	<10'	>10'			MES	MES	MES	MES
P	S-A7	RT	170+47.74	INLET, PIPE							186								1																1 (EA) 18" EW
F																																			
P	S-A8	LT	170+47.74	INLET, PIPE		104												1																	
F																																			
P	S-A9	RT	174+87.74	INLET, PIPE							435								1															W/ J BOTTOM (5x6'), 1 (EA) 48" EW	
F																																			
P	S-A10	LT	174+87.74	INLET, PIPE							103								1															W/ J BOTTOM (5x6')	
F																																			
P	S-A11	LT	177+20.00	JB, PIPE							154													1										W/ J BOTTOM (5x6')	
F																																			
P	S-A12	LT	179+60.00	INLET, PIPE							294								1															W/ J BOTTOM (5x6')	
F																																			
P	S-A13	LT	181+80.00	JB, PIPE							203													1										W/ J BOTTOM (5x6')	
F																																			
P	S-A14	LT	184+00.00	INLET, PIPE							203								1															W/ J BOTTOM (5x6')	
F																																			
P	S-A15	LT	187+18.00	JB, PIPE						296														1										W/ J BOTTOM (5x6')	
F																																			
P	S-A16	LT	188+69.60	INLET, PIPE						148							1																		W/ J BOTTOM (5x6')
F																																			
P	S-A17	LT	191+46.91	JB, PIPE						273														1										W/ J BOTTOM (5x6')	
F																																			
P	S-A18	LT	194+30.00	INLET, PIPE						278									1																W/ J BOTTOM (5x6')
F																																			
P	S-A19	LT	197+20.00	JB, PIPE					249															1										W/ J BOTTOM (5x6')	
F																																			
P	S-A20	LT	200+00.00	INLET, PIPE					275							1																		W/ J BOTTOM (5x6')	
F																																			
P	S-A21	LT	202+20.00	JB, PIPE				215																1										W/ J BOTTOM (5x6')	
F																																			
P	S-A22	LT	204+25.00	INLET, PIPE				201									1																		
F																																			
P	S-A23	LT	206+40.00	INLET, PIPE		212											1																		
F																																			
P	S-A24	RT	206+40.00	INLET, PIPE		104											1																		
F																																			
P	S-A25	RT	204+25.00	INLET, PIPE			104												1																
F																																			
P	S-A26	RT	200+00.00	INLET, PIPE		104													1																
F																																			
P	S-A27	RT	194+30.00	INLET, PIPE		104													1																
F																																			
P	S-A28	RT	188+69.60	INLET, PIPE		104													1																
F																																			
P	S-A29	RT	184+00.00	INLET, PIPE		64													1																
F																																			
P	S-A30	RT	179+60.00	INLET, PIPE		64													1																
F																																			
P	S-A31	LT	168+95.74	INLET, PIPE		132												1																	
F																																			
				SHEET TOTAL	0	992	104	416	524	995	1578	0	0	0	0	0	3	0	8	0	2	6	0	0	0	3	3	0	0	0	0	0	0		

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST – 2009)

FL LICENSE No. 24070

PROJ. 08-372 | DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR. \_\_\_\_\_  
APPROVED: \_\_\_\_\_

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**SUMMARY OF DRAINAGE STRUCTURES**

SHEET **9** OF **121**

QUANTITY	No. STR	SIDE	STATION	DESCRIPTION	15" SD	18" SD	24" SD	30" SD	36" SD	42" SD	48" SD	12"x18" ERCP	14"x23" ERCP	19"x30" ERCP	24"x38" ERCP	29"x45" ERCP	CURB INLET						JUNCTION BOX				SWALE INLET		MITERED END SECTION				REMARKS					
					<10'	<10'	<10'	>10'	<10'	>10'	<10'	<10'	>10'	<10'	<10'	>10'	<10'	>10'	<10'	<10'	>10'	<10'	>10'	C	E	12"x18" MES	14"x23" MES	19"x30" MES	24"x38" MES									
P	S-A32	RT	176+45.00	INLET, PIPE		64											1																					
F																																						
P	S-A33	RT	187+18.00	INLET, PIPE		64											1																					
P	S-A34	LT	194+66.90	JB, PIPE					32														1													W/ J BOTTOM (5'x6')		
F																																						
P	S-B1	LT	220+87.95	JB, PIPE				96																			1									1 (EA) 30"EW		
F																																						
P	S-B2	LT	219+68.00	INLET, PIPE				115										1																				
F																																						
P	S-B3	LT	217+08.00	JB, PIPE				256																		1												
F																																						
P	S-B4	LT	214+48.00	INLET, PIPE				257										1																				
F																																						
P	S-B5	LT	211+48.00	INLET, PIPE		297											1																					
F																																						
P	S-B6	RT	211+48.00	INLET, PIPE		104											1																					
F																																						
P	S-B7	RT	214+48.00	INLET, PIPE		104												1																				
F																																						
P	S-B8	RT	219+68.00	INLET, PIPE		104												1																				
F																																						
P	S-B9	LT	224+88.00	INLET, PIPE				102											1																		W/ J BOTTOM (4'x5'), 1 (EA) 36" EW	
F																																						
P	S-B10	LT	228+18.00	INLET, PIPE				326										1																			W/ J BOTTOM (4'x5')	
F																																						
P	S-B11	LT	231+29.30	JB, PIPE				308																1													W/ J BOTTOM (4'x5')	
F																																						
P	S-B12	LT	231+64.30	JB, PIPE				31																1													W/ J BOTTOM (4'x5')	
F																																						
P	S-B13	LT	234+90.00	INLET, PIPE				322										1																			W/ J BOTTOM (4'x5')	
F																																						
P	S-B14	LT	237+40.00	JB, PIPE				246																	1													
F																																						
P	S-B15	LT	239+90.00	INLET, PIPE				247											1																			
F																																						
P	S-B16	LT	242+35.00	JB, PIPE			242																			1												
F																																						
P	S-B17	LT	244+80.00	INLET, PIPE			242												1																			
F																																						
P	S-B18	RT	244+80.00	INLET, PIPE		104																																
F																																						
P	S-B19	RT	239+90.00	INLET, PIPE		104																																
F																																						
P	S-B20	RT	234+90.00	INLET, PIPE		104																																
F																																						
P	S-B21	RT	228+18.00	INLET, PIPE		104											1																					
F																																						
P	S-B22	RT	224+88.00	INLET, PIPE		104																																
F																																						
				SHEET TOTAL	0	1257	484	1217	1121	0	0	0	0	0	0	0	5	1	10	0	1	1	0	3	1	0	3	0	0	0	0	0	0	0	0	0		

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. MGR.	Jack Schrager, PE
PROJ. DIR.	
APPROVED:	

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**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**SUMMARY OF DRAINAGE STRUCTURES**

SHEET **10** OF **121**



P:\CAD\2008\08-372\PL\OTSUMDS.dwg, 12/8/20/2009 8:59:56 AM - Avalon Engineering, Inc.

QUANTITY	No. STR	SIDE	STATION	DESCRIPTION	15" SD	18" SD	24" SD	30" SD	36" SD	42" SD	48" SD	12"x18" ERCP	14"x23" ERCP	19"x30" ERCP	24"x38" ERCP	29"x45" ERCP	CURB INLET					JUNCTION BOX					SWALE INLET		MITERED END SECTION				REMARKS	
																	P-3	P-3LJ	P-4	P-4	P-4LJ	P-4LJ	P-7T	P-8T	P-8T	P-8TJ	P-8TJ	C	E	12"x18"	14"x23"	19"x30"		24"x38"
																	<10'	<10'	<10'	>10'	<10'	>10'	<10'	<10'	>10'	<10'	>10'			MES	MES	MES		MES
P	S-C26	RT	270+80.00	INLET, PIPE		64																												
F																																		
P	S-D1	RT	302+62.33	JB, PIPE					135																							W/ J BOTTOM (4"x5'), 1 (EA) 36" EW		
F																																		
P	S-D2	RT	304+00.00	INLET, PIPE				127																										
F																																		
P	S-D3	RT	306+00.00	JB, PIPE				186																										
F																																		
P	S-D4	RT	308+89.00	INLET, PIPE				158																										
F																																		
P	S-D5	RT	311+56.56	INLET, PIPE		287																												
F																																		
P	S-D6	LT	311+56.56	INLET, PIPE		104																												
F																																		
P	S-D7	LT	308+89.00	INLET, PIPE		115																												
F																																		
P	S-D8	LT	305+68.05	INLET, PIPE		70																												
F																																		
P	S-D9	LT	305+10.40	INLET, PIPE		58																												
F																																		
P	S-D10	LT	304+00.00	INLET, PIPE		64																												
F																																		
P	S-D11	LT	307+30.00	INLET, PIPE		66																												
F																																		
P	S-D12	RT	307+30.00	JB, PIPE				122																										
F																																		
P	S-E1	LT	295+20.00	JB, PIPE				142																										1 (EA) 30" EW
F																																		
P	S-E2	LT	294+25.00	JB, PIPE			96																											
F																																		
P	S-E3	LT	291+30.00	INLET, PIPE			292																											
F																																		
P	S-E4	RT	291+30.00	INLET, PIPE		104																												
F																																		
P	S-E5	LT	299+00.00	INLET, PIPE				108																										
F																																		
P	S-E6	RT	299+00.00	INLET, PIPE				128																										1 (EA) 30" EW
F																																		
P	S-E7	LT	294+25.00	INLET, PIPE		38																												
F																																		
P	S-MH1	RT	315+29.71	JB, PIPE			32																											
F																																		
P	S-MH2	RT	600+94.40	JB																														TOP ONLY
F																																		
P	S-200	RT	800+24.00	JB, PIPE									173																					
F																																		
P	S-201	RT	800+00.64	JB, PIPE									12																					
F																																		
P	S-202	RT	315+29.43	INLET																														REPLACE INLET (DANIELS PKWY)
F																																		
				<b>SHEET TOTAL</b>	0	970	420	971	135	0	0	0	185	0	0	0	4	0	10	1	0	0	4	2	2	0	1	0	1	0	0	0	0	

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372	DATE:
PROJ. MGR. Jack Schrager, PE	
PROJ. DIR.	
APPROVED:	

**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-6560

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**SUMMARY OF DRAINAGE STRUCTURES**



P:\CAD\2008\08-372\STRUCTURE-DATA.dwg, 14: 8/20/2009 9:05:14 AM, Avalon Engineering Inc.

S-1 STA: 302+08.28 60.67'RT  
CONST. JB TYPE P-8T  
W/J BOTTOM  
FDOT INDEX #200,201  
RIM = 23.40  
INV(N) = 10.00 (PROP)  
INV(E) = 17.95 (PROP)  
INV(W) = 17.95 (PROP)  
SUMP = 8.00

S-10 STA: 600+91.22 70.18'RT  
CONST. JB TYPE P-8T  
W/ J BOTTOM  
FDOT INDEX #200,201,210  
RIM = 20.33  
INV(N) = 15.20 (PROP)  
INV(E) = 12.10± (EXIST)  
INV(W) = 12.10± (EXIST)

S-19 STA: 502+50.00 12.57'LT  
CONST. INLET TYP P-4  
FDOT INDEX #200,201,210  
LIP = 20.47  
INV(E) = 16.85 (PROP)  
INV(S) = 16.85 (PROP)

S-A9 STA: 174+87.74 48.00'RT  
CONST. INLET TYPE P-4  
W/J BOTTOM  
FDOT INDEX #200,201,210  
LIP = 22.41  
INV(NW) = 10.00 (PROP)  
INV(SW) = 10.00 (PROP)

S-A17 STA: 191+46.91 54.66'LT  
CONST. JB TYPE P-8T  
W/J BOTTOM  
FDOT INDEX #200,201  
RIM = 23.70  
INV(N) = 14.10 (PROP)  
INV(S) = 14.10 (PROP)

S-A26 STA: 200+00.00 48.00'RT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 22.43  
INV(W) = 18.40 (PROP)

S-B2 STA: 219+68.00 48.00'LT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 22.18  
INV(N) = 15.80 (PROP)  
INV(S) = 15.80 (PROP)  
INV(E) = 17.85 (PROP)

S-B11 STA: 231+29.30 54.00'LT  
CONST. JB TYPE P-8T  
W/J BOTTOM  
FDOT INDEX #200,201  
RIM = 24.68  
INV(N) = 11.30 (PROP)  
INV(S) = 15.20 (PROP)  
SUMP = 9.30

S-B20 STA: 234+90.00 48.00'RT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 23.27  
INV(W) = 19.25 (PROP)

S-C8 STA: 265+04.63 48.00'LT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 22.45  
INV(E) = 18.15 (PROP)  
INV(W) = 15.25 (PROP)  
SUMP = 13.25

S-2 STA: 304+25.00 65.50'RT  
CONST. JB TYPE P-8T  
FDOT INDEX #200,201  
RIM = 21.69  
INV(N) = 12.65 (PROP)  
INV(S) = 10.50 (PROP)

S-11 STA: 601+53.75 67.00'RT  
CONST. INLET TYP P-4  
FDOT INDEX #200,201,210  
LIP = 20.88  
INV(N) = 16.50 (PROP)  
INV(S) = 15.35 (PROP)

S-A1 STA: 161+55.00 48.00'RT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 24.04  
INV(E) = 15.20 (PROP)  
INV(N) = 19.00 (PROP)  
INV(SW) = 19.00 (PROP)  
SUMP = 13.20

S-A10 STA: 174+87.74 48.00'LT  
CONST. INLET TYPE P-4  
W/J BOTTOM  
FDOT INDEX #200,201,210  
LIP = 22.41  
INV(N) = 10.20 (PROP)  
INV(SE) = 10.20 (PROP)

S-A18 STA: 194+30.00 48.00'LT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 22.43  
INV(W) = 18.40 (PROP)

S-A27 STA: 194+30.00 48.00'RT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 22.43  
INV(W) = 18.40 (PROP)

S-B3 STA: 217+08.00 53.00'LT  
CONST. JB TYPE P-8T  
FDOT INDEX #200,201  
RIM = 23.40  
INV(N) = 16.45 (PROP)  
INV(S) = 16.45 (PROP)

S-B12 STA: 231+64.30 54.00'LT  
CONST. JB TYPE P-8T  
W/J BOTTOM  
FDOT INDEX #200,201  
RIM = 24.69  
INV(N) = 15.30 (PROP)  
INV(S) = 11.45 (PROP)

S-B21 STA: 228+18.00 48.00'RT  
CONST. INLET TYPE P-3  
FDOT INDEX #200,201,210  
LIP = 23.24  
INV(W) = 19.25 (PROP)

S-C9 STA: 265+04.63 48.00'RT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 22.45  
INV(W) = 18.45 (PROP)

S-3 STA: 306+00.00 64.00'RT  
CONST. JB TYPE P-8T  
FDOT INDEX #200,201  
RIM = 22.59  
INV(N) = 13.05 (PROP)  
INV(S) = 13.05 (PROP)

S-12 STA: 602+78.82 67.00'RT  
CONST. INLET TYP P-4  
FDOT INDEX #200,201,210  
LIP = 21.03  
INV(N) = 17.30 (PROP)  
INV(S) = 17.30 (PROP)

S-A2 STA: 161+55.00 18.00'LT  
CONST. JB TYPE P-8T  
W/J BOTTOM  
FDOT INDEX #200,201,210  
LIP = 24.49  
INV(E) = 19.59 (PROP)

S-A11 STA: 176+45.00 54.66'LT  
CONST. JB TYPE P-8T  
W/J BOTTOM  
FDOT INDEX #200,201  
RIM = 24.10  
INV(N) = 10.60 (PROP)  
INV(SW) = 10.60 (PROP)  
INV(SE) = 18.50 (PROP)

S-A19 STA: 197+20.00 54.66'LT  
CONST. JB TYPE P-8T  
W/ J BOTTOM  
FDOT INDEX #200,201  
RIM = 23.71  
INV(N) = 15.40 (PROP)  
INV(S) = 15.40 (PROP)

S-A28 STA: 188+69.60 48.00'RT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 22.43  
INV(W) = 18.40 (PROP)

S-B4 STA: 214+48.00 48.00'LT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 22.18  
INV(N) = 17.10 (PROP)  
INV(S) = 18.00 (PROP)  
INV(E) = 17.85 (PROP)

S-B13 STA: 234+90.00 48.00'LT  
CONST. INLET TYPE P-4  
W/J BOTTOM  
FDOT INDEX #200,201,210  
LIP = 23.27  
INV(N) = 16.10 (PROP)  
INV(S) = 16.10 (PROP)  
INV(E) = 18.55 (PROP)

S-B22 STA: 224+88.00 48.00'RT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 22.18  
INV(W) = 18.15 (PROP)

S-C10 STA: 269+84.76 53.67'LT  
CONST. JB TYPE P-8T  
W/ J BOTTOM  
FDOT INDEX #200,201,210  
RIM = 24.22  
INV(N) = 13.70 (PROP)  
INV(W) = 13.70 (PROP)

S-4 STA: 307+83.90 65.89'RT  
CONST. JB TYPE P-8T  
FDOT INDEX #200,201  
RIM = 21.09  
INV(N) = 13.50 (PROP)  
INV(S) = 13.50 (PROP)

S-13 STA: 603+05.89 60.22'RT  
CONST. JB TYPE P-7T  
FDOT INDEX #200,201,210  
RIM = 21.60  
INV(N) = 17.60± (EXIST)  
INV(S) = 17.55 (PROP)

S-A3 STA: 159+88.24 7.00'LT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 25.18  
INV(N) = 20.18 (PROP)

S-A12 STA: 179+60.00 48.00'RT  
CONST. INLET TYPE P-4  
W/J BOTTOM  
FDOT INDEX #200,201,210  
LIP = 23.47  
INV(N) = 11.30 (PROP)  
INV(SW) = 11.30 (PROP)  
INV(SE) = 18.50 (PROP)

S-A20 STA: 200+00.00 48.00'LT  
CONST. INLET TYPE P-4  
W/ J BOTTOM  
FDOT INDEX #200,201,210  
LIP = 22.43  
INV(N) = 16.10 (PROP)  
INV(S) = 16.10 (PROP)  
INV(E) = 17.70 (PROP)

S-A30 STA: 179+60.00 18.00'RT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 24.02  
INV(NW) = 19.00 (PROP)

S-B5 STA: 211+48.00 48.00'LT  
CONST. INLET TYPE P-3  
FDOT INDEX #200,201,210  
LIP = 23.08  
INV(N) = 18.70 (PROP)  
INV(S) = 18.70 (PROP)

S-B14 STA: 237+40.00 53.00'LT  
CONST. JB TYPE P-8T  
FDOT INDEX #200,201  
RIM = 24.40  
INV(N) = 16.70 (PROP)  
INV(S) = 16.70 (PROP)

S-C2 STA: 249+70.00 48.00'LT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 23.03  
INV(N) = 18.75 (PROP)  
INV(E) = 18.75 (PROP)

S-C11 STA: 270+80.00 48.00'LT  
CONST. INLET TYPE P-4  
W/J BOTTOM  
FDOT INDEX #200,201,210  
LIP = 23.50  
INV(E) = 18.50 (PROP)  
INV(N) = 13.90 (PROP)  
INV(S) = 13.90 (PROP)

S-5 STA: 309+61.22 62.73'RT  
CONST. JB TYPE P-8T  
W/J BOTTOM  
FDOT INDEX #200,201  
RIM = 21.38  
INV(N) = 13.95 (PROP)  
INV(S) = 13.95 (PROP)  
INV(E) = 16.90 (PROP)  
SUMP = 11.95

S-14 STA: 601+36.63 27.00'LT  
CONST. INLET TYP P-3  
FDOT INDEX #200,201,210  
LIP = 21.08  
INV(W) = 18.25 (PROP)

S-A4 STA: 157+68.94 7.00'LT  
CONST. INLET TYPE P-3  
FDOT INDEX #200,201,210  
LIP = 24.73  
INV(N) = 19.65 (PROP)

S-A13 STA: 181+80.00 54.66'LT  
CONST. JB TYPE P-8T  
W/J BOTTOM  
FDOT INDEX #200,201  
RIM = 24.57  
INV(N) = 11.80 (PROP)  
INV(SW) = 11.80 (PROP)  
INV(SE) = 11.80 (PROP)

S-A21 STA: 202+20.00 54.66'LT  
CONST. JB TYPE P-8T  
W/ J BOTTOM  
FDOT INDEX #200,201  
RIM = 23.52  
INV(N) = 16.90 (PROP)  
INV(S) = 16.90 (PROP)

S-A31 STA: 168+95.74 18.00'LT  
CONST. INLET TYPE P-3  
FDOT INDEX #200,201,210  
LIP = 24.40  
INV(S) = 19.65 (PROP)  
SUMP = 17.65

S-B6 STA: 211+48.00 48.00'RT  
CONST. INLET TYPE P-3  
FDOT INDEX #200,201,210  
LIP = 23.08  
INV(W) = 19.00 (PROP)

S-B15 STA: 239+90.00 48.00'LT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 23.21  
INV(N) = 17.30 (PROP)  
INV(S) = 17.30 (PROP)  
INV(E) = 18.50 (PROP)

S-C3 STA: 249+70.00 48.00'RT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 23.03  
INV(N) = 18.75 (PROP)  
INV(E) = 18.75 (PROP)

S-C12 STA: 272+70.00 53.67'LT  
CONST. JB TYPE P-8T  
W/J BOTTOM  
FDOT INDEX #200,201  
RIM = 24.52  
INV(NW) = 14.35 (PROP)  
INV(SE) = 14.35 (PROP)

S-6 STA: 310+89.03 60.52'RT  
CONST. JB TYPE P-8T  
FDOT INDEX #200,201  
RIM = 21.96  
INV(N) = 14.30 (PROP)  
INV(S) = 14.30 (PROP)  
INV(E) = 17.4± (MATCH EX.)

S-15 STA: 602+56 27.00'LT  
CONST. INLET TYP P-4  
FDOT INDEX #200,201,210  
LIP = 20.28  
INV(N) = 17.20

S-A5 STA: 165+38.00 48.00'RT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 23.99  
INV(SE) = 15.20 (PROP)  
INV(NW) = 19.00 (PROP)  
SUMP = 13.20

S-A14 STA: 184+00.00 48.00'LT  
CONST. INLET TYPE P-4  
W/J BOTTOM  
FDOT INDEX #200,201,210  
LIP = 23.50  
INV(N) = 12.30 (PROP)  
INV(S) = 12.30 (PROP)  
INV(E) = 18.50 (PROP)

S-A22 STA: 204+25.00 48.00'LT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 22.50  
INV(N) = 18.40 (PROP)  
INV(S) = 17.40 (PROP)  
INV(E) = 17.60 (PROP)

S-A32 STA: 176+45.00 18.00'RT  
CONST. INLET TYPE P-3  
FDOT INDEX #200,201,210  
LIP = 24.18  
INV(NW) = 19.00 (PROP)

S-B7 STA: 214+48.00 48.00'RT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 22.18  
INV(W) = 18.15 (PROP)

S-B16 STA: 242+35.00 53.00'LT  
CONST. JB TYPE P-8T  
FDOT INDEX #200,201  
RIM = 24.30  
INV(N) = 17.90 (PROP)  
INV(S) = 17.90 (PROP)

S-C4 STA: 254+60.00 48.00'LT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 22.94  
INV(E) = 18.65 (PROP)  
INV(W) = 15.25 (PROP)  
SUMP = 13.25

S-C13 STA: 274+59.03 53.92'LT  
CONST. JB TYPE P-8T  
W/J BOTTOM  
FDOT INDEX #200,201  
RIM = 24.48  
INV(W) = 12.10 (PROP)  
INV(E) = 14.80 (PROP)  
SUMP = 10.10

S-7 STA: 312+00.50 59.70'RT  
CONST. JB TYPE P-8T  
FDOT INDEX #200,201,210  
RIM = 21.40  
INV(N) = 14.60 (PROP)  
INV(S) = 14.60 (PROP)  
INV(E) = 17.75 (PROP)

S-16 STA: 602+78.63 32.64'LT  
CONST. JB TYPE P-7T  
(TOP ONLY)  
FDOT INDEX #200,201  
RIM = 21.10  
EXIST. GRATE = 20.28  
INV(N) = 17.10± (EXIST)  
INV(S) = 17.10 (PROP)  
INV(W) = 17.10± (EXIST)

S-A6 STA: 165+38.00 18.00'LT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 24.54  
INV(SE) = 19.50 (PROP)

S-A15 STA: 187+18.00 54.66'LT  
CONST. JB TYPE P-8T  
W/J BOTTOM  
FDOT INDEX #200,201  
RIM = 24.05  
INV(N) = 13.00 (PROP)  
INV(S) = 13.00 (PROP)  
INV(E) = 18.50 (PROP)

S-A23 STA: 206+40.00 48.00'LT  
CONST. INLET TYPE P-3  
FDOT INDEX #200,201,210  
LIP = 23.25  
INV(E) = 18.95 (PROP)  
INV(S) = 18.95 (PROP)

S-A33 STA: 187+18.00 18.00'RT  
CONST. INLET TYPE P-3  
FDOT INDEX #200,201,210  
LIP = 24.16  
INV(W) = 19.00 (PROP)

S-B8 STA: 219+68.00 48.00'RT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 22.18  
INV(W) = 18.15 (PROP)

S-B17 STA: 244+80.00 48.00'LT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 23.12  
INV(E) = 18.85 (PROP)  
INV(S) = 18.50 (PROP)

S-C5 STA: 254+60.00 48.00'RT  
CONST. INLET TYPE P-3  
FDOT INDEX #200,201,210  
LIP = 22.94  
INV(W) = 18.95 (PROP)

S-C14 STA: 266+60.00 18.00'RT  
CONST. INLET TYPE P-3  
FDOT INDEX #200,201,210  
LIP = 24.21  
INV(W) = 19.00 (PROP)  
SUMP = 17.00

S-8 STA: 314+12.00 59.00'RT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 20.56  
INV(W) = 15.40 (PROP)  
INV(S) = 15.20 (PROP)

S-17 STA: 603+23.77 31.54'LT  
CONST. JB TYPE P-7T  
FDOT INDEX #200,201,210  
RIM = 21.10  
INV(N) = 17.35± (EXIST)  
INV(S) = 17.35± (EXIST)  
INV(W) = 16.70 (PROP)  
SUMP = 14.70

S-A7 STA: 170+47.74 48.00'RT  
CONST. INLET TYPE P-4  
W/J BOTTOM  
FDOT INDEX #200,201,210  
LIP = 22.66  
INV(NW) = 18.35 (PROP)  
INV( S) = 9.75 (PROP)  
INV(N) = 9.75 (PROP)  
SUMP = 7.75

S-A16 STA: 206+40.00 48.00'RT  
CONST. INLET TYPE P-3  
FDOT INDEX #200,201,210  
LIP = 23.25  
INV(W) = 19.25 (PROP)

S-A24 STA: 206+40.00 48.00'RT  
CONST. INLET TYPE P-3  
FDOT INDEX #200,201,210  
LIP = 23.25  
INV(W) = 19.25 (PROP)

S-A34 STA: 194+66.90 54.66'LT  
CONST. JB TYPE P-8T  
W/ J BOTTOM  
FDOT INDEX #200,201  
RIM = 22.98  
INV(N) = 14.75 (PROP)  
INV(S) = 12.50 (PROP)

S-B9 STA: 224+88.00 48.00'LT  
CONST. INLET TYPE P-4  
W/J BOTTOM  
FDOT INDEX #200,201,210  
LIP = 22.18  
INV(N) = 13.65 (PROP)  
INV(SW) = 13.65 (PROP)  
INV(E) = 17.45 (PROP)  
SUMP = 11.65

S-B18 STA: 244+80.00 48.00'RT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 23.12  
INV(W) = 19.15 (PROP)

S-C6 STA: 259+90.00 48.00'LT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 22.73  
INV(E) = 18.45 (PROP)  
INV(W) = 15.25 (PROP)  
SUMP = 13.25

S-C15 STA: 276+40.00 48.00'LT  
CONST. INLET TYPE P-4  
W/J BOTTOM  
FDOT INDEX #200,201,210  
LIP = 23.50  
INV(N) = 18.50 (PROP)  
INV(W) = 15.20 (PROP)  
INV(E) = 12.40 (PROP)

S-9 STA: 314+12.00 59.00'LT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 20.56  
INV(E) = 15.75 (PROP)

S-18 STA: 502+50.00 11.00'RT  
CONST. INLET TYP P-4  
FDOT INDEX #200,201,210  
LIP = 20.47  
INV(N) = 16.95 (PROP)

S-A8 STA: 170+47.74 48.00'LT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 22.66  
INV(SE) = 18.65 (PROP)

S-A16 STA: 188+69.60 48.00'LT  
CONST. INLET TYPE P-4  
W/J BOTTOM  
FDOT INDEX #200,201,210  
LIP = 22.43  
INV(N) = 13.40 (PROP)  
INV(S) = 13.40 (PROP)  
INV(E) = 17.70 (PROP)

S-A25 STA: 204+25.00 48.00'RT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 22.50  
INV(W) = 17.90 (PROP)

S-B10 STA: 228+18.00 48.00'LT  
CONST. INLET TYPE P-3  
W/J BOTTOM  
FDOT INDEX #200,201,210  
LIP = 23.24  
INV(N) = 14.45 (PROP)  
INV(S) = 14.45 (PROP)  
INV(E) = 18.50 (PROP)

S-B11 STA: 242+35.00 53.00'LT  
CONST. JB TYPE P-8T  
FDOT INDEX #200,201  
RIM = 24.30  
INV(N) = 17.90 (PROP)  
INV(S) = 17.90 (PROP)

S-B12 STA: 244+80.00 48.00'LT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 23.12  
INV(E) = 18.85 (PROP)  
INV(S) = 18.50 (PROP)

S-C7 STA: 259+90.00 48.00'RT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 22.73  
INV(W) = 18.75 (PROP)

S-C16 STA: 278+60.00 53.25'LT  
CONST. JB TYPE P-8T  
W/J BOTTOM  
FDOT INDEX #200,201  
RIM = 24.59  
INV(W) = 15.70 (PROP)  
INV(E) = 15.70 (PROP)

90% SUBMITTAL PLANS  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schragger, PE  
PROJ. DIR.  
APPROVED:

AVALON ENGINEERING, INC.  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

LEE COUNTY DEPARTMENT  
OF  
TRANSPORTATION  
(239) 533-6560

THREE OAKS PARKWAY EXTENSION  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

DRAINAGE STRUCTURE DATA  
THREE OAKS PKWY EXT.

SHEET  
14 OF 121

P:\CAD\2008\08-372\PLOTS\STRUCTURE-DATA.dwg, 15. 8/20/2009 9:05:21 AM, Avalon Engineering Inc.

S-C17

STA: 280+72.50 48.00'LT  
CONST. INLET TYPE P-3  
W/J BOTTOM  
FDOT INDEX #200,201  
LIP= 23.63  
INV(N) = 18.90 (PROP)  
INV(W) = 16.20 (PROP)  
INV(E) = 16.20 (PROP)

S-C18

STA: 282+82.50 59.00'LT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP= 21.83  
INV(N) = 17.80 (PROP)  
INV(W) = 16.70 (PROP)  
INV(E) = 16.70 (PROP)

S-C19

STA: 284+50.00 64.00'LT  
CONST. JB TYPE P-8T  
FDOT INDEX #200,201  
RIM= 22.79  
INV(W) = 17.10 (PROP)  
INV(E) = 17.10 (PROP)

S-C20

STA: 286+20.50 59.00'LT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP= 21.84  
INV(N) = 17.80 (PROP)  
INV(E) = 17.55 (PROP)

S-C21

STA: 286+20.50 48.00'RT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP= 22.11  
INV(S) = 18.10 (PROP)

S-C22

STA: 282+82.50 48.00'RT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP= 22.11  
INV(S) = 18.10 (PROP)

S-C23

STA: 280+94.64 0.00'RT  
CONST. INLET TYPE P-3  
FDOT INDEX #200,201,210  
LIP= 23.96  
INV(N) = 19.85 (PROP)  
INV(S) = 19.20 (PROP)

S-C24

STA: 280+72.50 59.00'RT  
CONST. INLET TYPE P-3  
FDOT INDEX #200,201,210  
LIP= 24.45  
INV(S) = 20.05 (PROP)

S-C25

STA: 276+40.00 7.00'RT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP= 24.05  
INV(N) = 19.00 (PROP)

S-C26

STA: 270+80.00 18.00'RT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 24.05  
INV(W) = 19.00 (PROP)

S-D1

STA: 302+62.33 53.00'RT  
CONST. JB TYPE P-8T  
W/J BOTTOM  
FDOT INDEX #200,201  
RIM= 23.54  
INV(N) = 14.95 (PROP)  
INV(SE) = 14.35 (PROP)  
SUMP = 12.35

S-D2

STA: 304+00.00 48.00'RT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP= 22.70  
INV(W) = 17.50 (PROP)  
INV(N) = 15.30 (PROP)  
INV(S) = 15.30 (PROP)

S-D3

STA: 306+00.00 53.00'RT  
CONST. JB TYPE P-8T  
FDOT INDEX #200,201  
RIM= 23.81  
INV(W) = 18.00 (PROP)  
INV(N) = 15.80 (PROP)  
INV(S) = 15.80 (PROP)

S-D4

STA: 308+89.00 48.00'RT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP= 21.56  
INV(W) = 16.95 (PROP)  
INV(N) = 16.50 (PROP)  
INV(S) = 16.50 (PROP)

S-D5

STA: 311+78.60 48.00'RT  
CONST. INLET TYPE P-3  
FDOT INDEX #200,201  
LIP= 21.53  
INV(W) = 17.25 (PROP)  
INV(S) = 17.25 (PROP)

S-D6

STA: 311+74.54 48.00'LT  
CONST. INLET TYPE P-3  
FDOT INDEX #200,201,210  
LIP= 21.54  
INV(E) = 17.55 (PROP)  
INV(W) = 19.00 (PROP)

S-D7

STA: 308+89.00 59.00'LT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP= 21.28  
INV(E) = 17.25 (PROP)  
INV(W) = 19.00 (PROP)

S-D8

STA: 305+68.05 18.00'LT  
CONST. INLET TYPE P-3  
FDOT INDEX #200,201,210  
LIP= 23.86  
INV(E) = 18.20 (PROP)  
INV(S) = 18.20 (PROP)

S-D9

STA: 305+10.40 3.20'LT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 23.40  
INV(N) = 18.40 (PROP)

S-D10

STA: 304+00.00 18.00'LT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 23.25  
INV(E) = 18.25 (PROP)

S-D11

STA: 307+30.00 18.00'LT  
CONST. INLET TYPE P-3  
FDOT INDEX #200,201,210  
LIP= 23.32  
INV(E) = 18.25 (PROP)

S-D12

STA: 307+30.00 56.00'RT  
CONST. JB TYPE P-8T  
FDOT INDEX #200,201  
RIM= 23.25  
INV(W) = 18.00 (PROP)  
INV(N) = 16.10 (PROP)  
INV(S) = 16.10 (PROP)

S-E1

STA: 295+20.00 53.68'LT  
CONST. JB TYPE P-8T  
FDOT INDEX #200,201  
RIM= 25.70  
INV(SW) = 14.35 (PROP)  
INV(E) = 16.20 (PROP)

S-E2

STA: 294+25.00 52.75'LT  
CONST. JB TYPE P-8T  
FDOT INDEX #200,201  
RIM= 25.10  
INV(N) = 18.50 (PROP)  
INV(E) = 16.45 (PROP)  
INV(W) = 16.45 (PROP)

S-E3

STA: 291+30.00 48.00'LT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP= 21.78  
INV(N) = 17.50 (PROP)  
INV(W) = 17.25 (PROP)

S-E4

STA: 291+30.00 48.00'RT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP= 21.78  
INV(N) = 17.50 (PROP)  
INV(W) = 17.25 (PROP)

S-E5

STA: 299+00.00 18.00'LT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 23.25  
INV(N) = 17.40 (PROP)  
INV(S) = 14.25 (PROP)

S-E6

STA: 299+00.00 48.00'RT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP= 22.70  
INV(N) = 14.20 (PROP)  
INV(S) = 17.60 (PROP)

S-E7

STA: 294+25.00 18.00'LT  
CONST. INLET TYPE P-3  
FDOT INDEX #200,201,210  
LIP = 23.93  
INV(S) = 18.85 (PROP)

S-200

STA: 800+24.00 74.10'RT  
CONST. JB TYPE P-7T  
FDOT INDEX #200,201,210  
RIM = 20.44  
INV(SW) = 17.30 (PROP)  
INV(E) = 17.30 (PROP)  
SUMP = 15.30

S-201

STA: 802+00.64 73.14'RT  
CONST. JB TYPE P-7T  
FDOT INDEX #200,201,210  
RIM = 20.60  
INV(SE) = 17.60 (PROP)  
INV(W) = 17.60 (PROP)  
SUMP = 15.60

S-202

STA: 315+29.43 107.09'RT  
(REPLACE EX. SWALE INLET)  
CONST. INLET TYPE "E" MODIFIED  
FDOT INDEX #232  
36"W x 12"H SLOT(S)= 17.40  
3" DIA. BLEEDER = 16.40  
INV(W) = 15.75 (PROP)

S9-2

STA: 156+41.65± 61.70'RT  
REMOVE EXIST. M.E.S. AND  
CONST. JB TYPE P-7T  
FDOT INDEX #200,201  
RIM = 23.90  
INV(NW) = 19.20 (PROP)  
INV(S) = 20.62 (EXIST)  
SUMP = 17.20

S9-3

STA: 156+44.60 50.00'RT  
CONST. INLET TYPE P-4  
FDOT INDEX #200,201,210  
LIP = 23.30  
INV(E) = 19.30 (PROP)

S-MH1

STA: 315+29.71 71.16'RT  
MODIFY EXIST. INLET  
CONST. J.B. TOP (TYPE P-7T)  
FDOT INDEX #200, 201 & 210  
PROP. RIM = 20.72  
EXIST. GRATE = 18.37±  
INV(N) = 15.62± (EXIST)  
INV(E) = 15.62± (EXIST)

S-MH2

STA: 600+94.40 25.09'RT  
CONST. JB TYPE P-7T  
(TOP ONLY)  
FDOT INDEX #200,201,210  
RIM = 21.10  
EXIST. GRATE = 18.55±

CONTROL STRUCTURES

CS-A1

STA: 161+54.38 376.30'RT  
CONST. INLET TYPE "E" MODIFIED  
FDOT INDEX #232  
GRATE = 22.05  
TOP OF WALL (WEIR) EL. = 21.55  
RECT. NOTCH 0.25'H X 0.88'W  
RECT. NOTCH INVERT EL. = 19.00  
INV(S) = 16.00 (PROP)  
INV(N) = 15.50 (PROP)  
SUMP = 13.50

CS-B1

STA: 221+21.33 710.34'LT  
CONST. INLET TYPE "E" MODIFIED  
FDOT INDEX #232  
GRATE = 22.25  
TOP OF WALL (WEIR) EL. = 21.75  
RECT. NOTCH 0.25'H X 0.80'W  
RECT. NOTCH INVERT EL. = 19.00  
INV(S) = 18.95 (PROP)  
INV(N) = 15.50 (PROP)  
SUMP = 13.50

CS-C1

STA: 254+82.73 724.64'LT  
CONST. INLET TYPE "E" MODIFIED  
FDOT INDEX #232  
GRATE = 21.60  
TOP OF WALL (WEIR) EL. = 21.08  
RECT. NOTCH 0.42'H X 2.46'W  
RECT. NOTCH INVERT EL. = 19.00  
INV(W) = 18.95 (PROP)  
INV(E) = 15.50 (PROP)  
SUMP = 13.50

CS-E1

STA: 298+95.31 386.94'LT  
CONST. INLET TYPE "E" MODIFIED  
FDOT INDEX #232  
GRATE = 21.80  
TOP OF WALL (WEIR) EL. = 21.26  
RECT. NOTCH 0.25'H X 0.60'W  
RECT. NOTCH INVERT EL. = 19.00  
INV(W) = 18.95 (PROP)  
INV(E) = 15.50 (PROP)  
SUMP = 13.50

ENDWALLS

EW-A1

STA: 161+88.66 367.84'RT  
CONST. ENDWALL 18" SD  
FDOT INDEX #250  
INV= 15.00 (PROP)

EW-A2

STA: 161+55.00 116.17'RT  
CONST. ENDWALL 18" SD  
FDOT INDEX #250  
INV= 15.00 (PROP)

EW-A3

STA: 165+38.00 116.17'RT  
CONST. ENDWALL 18" SD  
FDOT INDEX #250  
INV= 15.00 (PROP)

EW-A4

STA: 168+84.00 142.00'RT  
CONST. ENDWALL 48" SD  
FDOT INDEX #250  
INV= 9.50 (PROP)

ENDWALLS

EW-A5

STA: 168+63.00 117.00'RT  
CONST. ENDWALL 18" SD  
FDOT INDEX #250  
INV= 15.00 (PROP)

EW-A6

STA: 194+48.52 74.07'LT  
CONST. ENDWALL 24"x38" ERCP  
FDOT INDEX #250  
INV= 17.30 (PROP)

EW-A7

STA: 194+48.52 73.89'RT  
CONST. ENDWALL 24"x38" ERCP  
FDOT INDEX #250  
INV= 17.60 (PROP)

EW-B1

STA: 221+41.58 710.26'LT  
CONST. ENDWALL 18" SD  
FDOT INDEX #250  
INV= 15.00 (PROP)

EW-B2

STA: 221+50.91 127.62'LT  
CONST. ENDWALL 30" SD  
FDOT INDEX #250  
INV= 14.20 (PROP)

EW-B3

STA: 224+20.53 131.37'LT  
CONST. ENDWALL 36" SD  
FDOT INDEX #250  
INV= 13.40 (PROP)

EW-C1

STA: 254+82.80 704.39'LT  
CONST. ENDWALL 18" SD  
FDOT INDEX #250  
INV= 15.00 (PROP)

EW-C2

STA: 251+99.33 123.75'LT  
CONST. ENDWALL 24" SD  
FDOT INDEX #250  
INV= 15.00 (PROP)

EW-C3

STA: 254+60.00 116.10'LT  
CONST. ENDWALL 18" SD  
FDOT INDEX #250  
INV= 15.00 (PROP)

EW-C4

STA: 259+90.00 118.25'LT  
CONST. ENDWALL 18" SD  
FDOT INDEX #250  
INV= 15.00 (PROP)

EW-C6

STA: 266+60.00 116.17'LT  
CONST. ENDWALL 18" SD  
FDOT INDEX #250  
INV= 15.00 (PROP)

EW-C8

STA: 247+57.45 74.17'LT  
CONST. ENDWALL 30" RCP  
FDOT INDEX #250  
INV= 17.30 (PROP)

EW-C9

STA: 247+58.04 74.17'RT  
CONST. ENDWALL 30" RCP  
FDOT INDEX #250  
INV= 17.75 (PROP)

EW-C10

STA: 275+02.84 72.16'LT  
CONST. ENDWALL 30" RCP  
FDOT INDEX #250  
INV= 17.25 (PROP)

EW-C11

STA: 273+79.23 77.75'RT  
CONST. ENDWALL 30" RCP  
FDOT INDEX #250  
INV= 17.50 (PROP)

EW-D1

STA: 301+35.13 129.18'RT  
CONST. ENDWALL 36" SD  
FDOT INDEX #250  
INV= 13.70 (PROP)

EW-D2

STA: 299+00.17 118.17'RT  
CONST. ENDWALL 30" SD  
FDOT INDEX #250  
INV= 14.00 (PROP)

EW-E1

STA: 298+89.24 366.34'LT  
CONST. ENDWALL 18" SD  
FDOT INDEX #250  
INV= 15.00 (PROP)

EW-E2

STA: 296+29.52 133.86'LT  
CONST. ENDWALL 30" SD  
FDOT INDEX #250  
INV= 14.00 (PROP)

EW-E3

STA: 298+99.81 121.11'LT  
CONST. ENDWALL 30" RCP  
FDOT INDEX #250  
INV= 14.00 (PROP)

EW-E4

STA: 302+08.28 109.34'LT  
CONST. ENDWALL 29"x45" ERCP  
FDOT INDEX #250  
INV= 17.55 (PROP)

MITER END SECTIONS

MES-1

STA: 302+08.28 64.62'RT  
CONST. MES 24"x38"  
FDOT INDEX #272  
INV(E) = 18.10 (PROP)

MES-5

STA: 309+61.19 66.51'RT  
CONST. MES 24"x38"  
FDOT INDEX #272  
INV(E) = 17.00 (PROP)

MES-14

STA: 601+36.83 4.374'LT  
CONST. MES 12"x18"  
FDOT INDEX #272  
INV(E) = 18.00 (PROP)

MES-100

STA: 603+89.75 61.09'RT  
CONST. MES 12"x18"  
FDOT INDEX #272  
INV(N) = 17.80 (PROP)

MES-101

STA: 604+44.29 61.81'RT  
CONST. MES 19"x30"  
FDOT INDEX #272  
INV(S) = 17.25 (PROP)

MES-102

STA: 604+97.12 61.19'RT  
CONST. MES 19"x30"  
FDOT INDEX #272  
INV(N) = 17.45 (PROP)

MES-103

STA: 603+86.88 25.02'LT  
CONST. MES 12"x18"  
FDOT INDEX #272  
INV(N) = 17.50 (PROP)

MES-104

STA: 606+71.15 36.59'RT  
CONST. MES 24"x38"  
FDOT INDEX #272  
INV(E) = 17.15 (PROP)

MES-105

STA: 604+06.53 21.01'LT  
CONST. MES 12"x18"  
FDOT INDEX #272  
INV(W) = 17.25 (PROP)

MES-106

STA: 604+05.20 55.81'RT  
CONST. MES 12"x18"  
FDOT INDEX #272  
INV(W) = 17.35 (PROP)

MES-200

STA: 800+13.96 65.43'RT  
CONST. MES 14"x23"  
FDOT INDEX #272  
INV(SW) = 17.75 (PROP)

MES-201

STA: 802+09.27 83.97'RT  
CONST. MES 14"x23"  
FDOT INDEX #272  
INV(SE) = 18.30 (PROP)

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

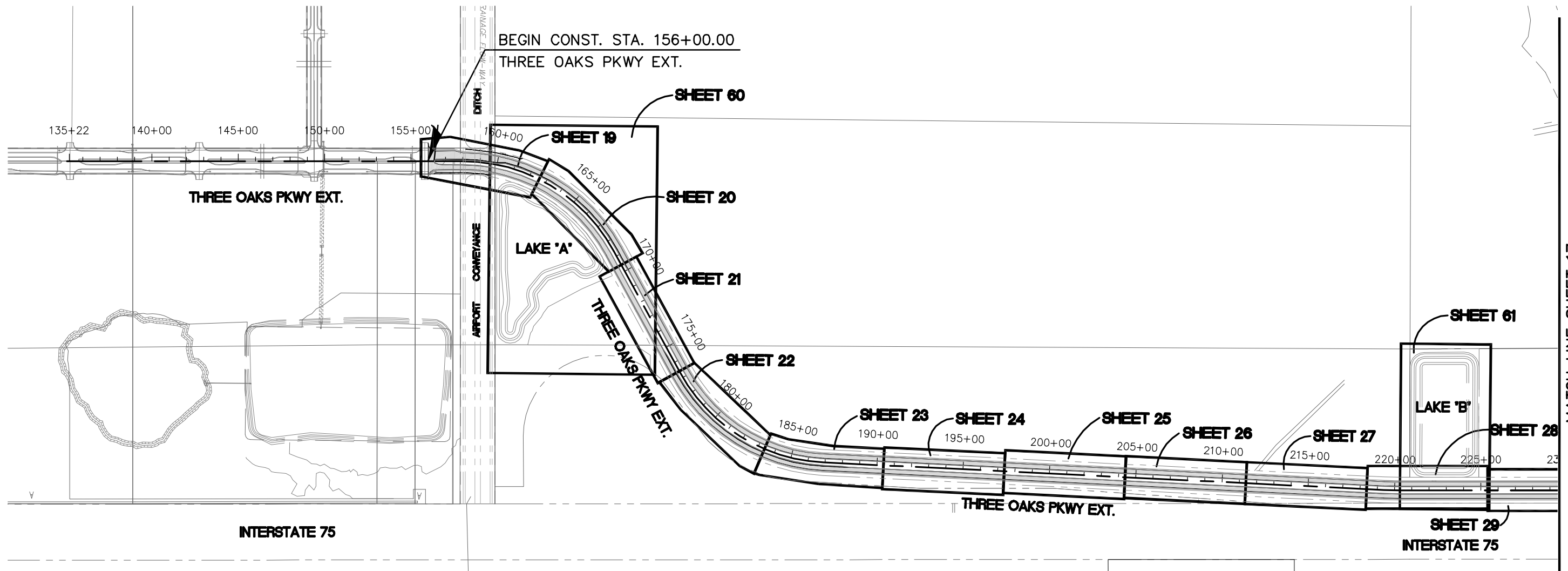
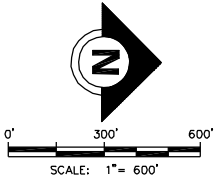
90% SUBMITTAL PLANS (AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

AVALON ENGINEERING, INC.  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

LEE COUNTY DEPARTMENT OF TRANSPORTATION  
(239) 533-6560



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DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
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**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

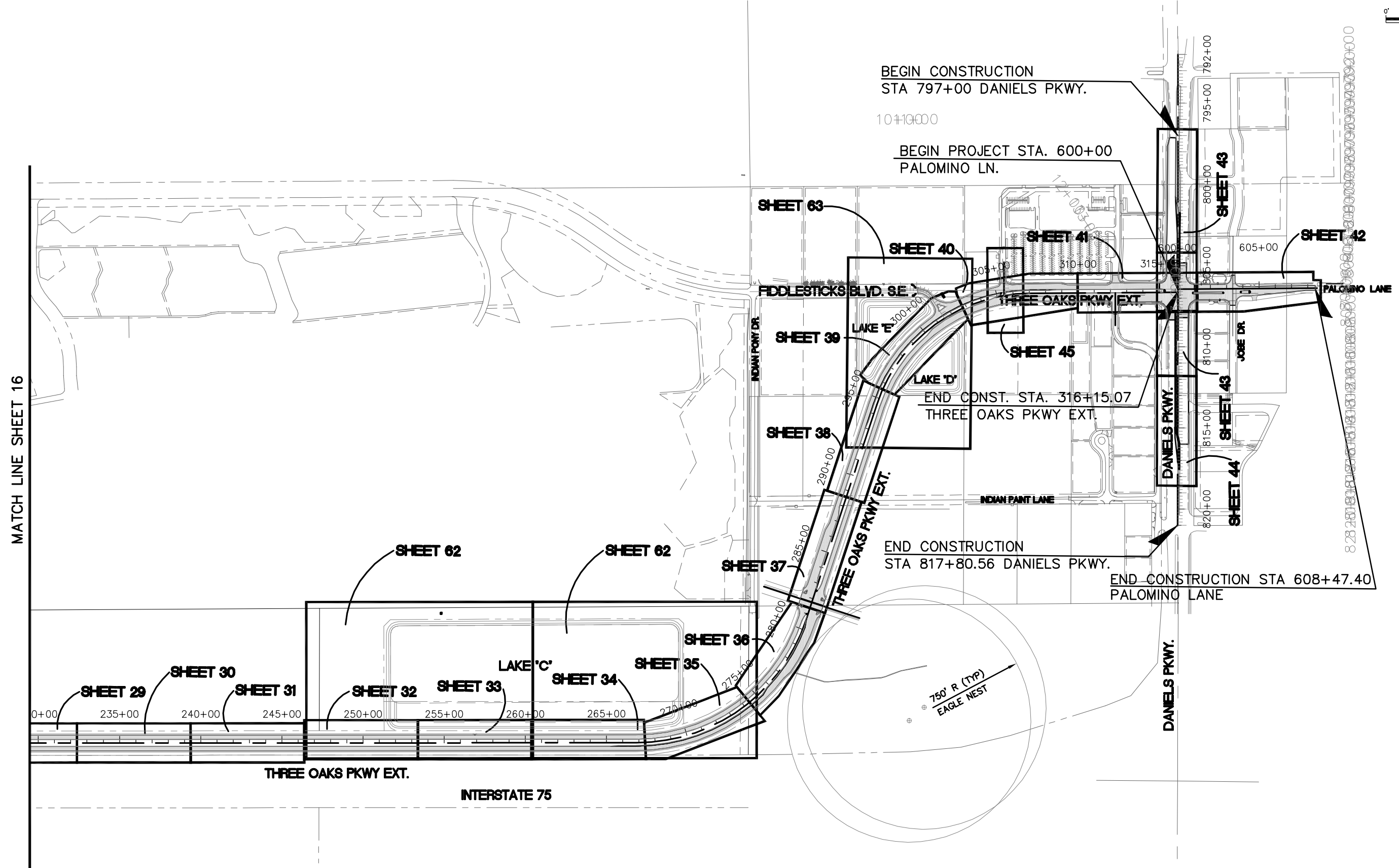
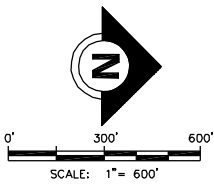
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**PROJECT LAYOUT**  
**THREE OAKS PKWY EXT.**

SHEET  
**16 OF 121**





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DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. NO. 08-372	DATE:
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PROJ. DIR.	
APPROVED:	

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**PROJECT LAYOUT**  
**THREE OAKS PKWY EXT.**

SHEET  
17 OF 121

## GENERAL CONSTRUCTION NOTES

- ALL ELEVATIONS REFER TO N.G.V.D. MEAN SEA LEVEL, 1929.
- CONTRACTOR SHALL LOCATE AND VERIFY THE SIZE, LOCATION AND DEPTH OF ALL EXISTING UTILITIES IN THE FIELD AND SHALL NOTIFY THE UTILITY COMPANIES IN THE AREA BEFORE BEGINNING CONSTRUCTION. ANY UTILITIES THAT ARE DISTURBED OR DAMAGED BY THE CONTRACTOR SHALL BE IMMEDIATELY REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE. ANY DISCREPANCY NOT CALLED TO THE ENGINEER'S ATTENTION PRIOR TO ACCOMPLISHMENT OF THE WORK SHALL BE CORRECTED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- ALL MATERIALS AND WORKMANSHIP UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE CURRENT CONSTRUCTION STANDARDS AND SPECIFICATIONS OF LEE COUNTY DEVELOPMENT STANDARDS AND FLORIDA DEPARTMENT OF (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE TRANSPORTATION CONSTRUCTION UNLESS OTHERWISE NOTED.
- CONCRETE SIDEWALK: USE CLASS I, 3000 PSI (MINIMUM) CONCRETE. APPLY A BROOM FINISH AND MAKE VERTICAL SAW CUTS AT 5' ON CENTER AT A DEPTH OF 1/4 OF THE SLAB THICKNESS. PROVIDE PRE-FORMED EXPANSION JOINTS AT 50' ON CENTER.
- CONCRETE CURB & GUTTER AND STRAIGHT CURB: USE CLASS I, 3000 PSI (MINIMUM) CONCRETE. MAKE VERTICAL SAW CUTS EVERY 10' ON CENTER WITH PRE-MOLDED EXPANSION JOINTS EVERY 50' ON CENTER.
- CONSTRUCTION OF NEW DRIVEWAYS AND/OR ALLEYS SHALL BE IN STRICT ACCORDANCE WITH THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF LEE COUNTY TRANSPORTATION. ALL EXISTING GRADES ALONG RIGHT-OF-WAY SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- ALL CONSTRUCTION WITHIN THE COUNTY RIGHT-OF-WAY SHALL BE IN STRICT ACCORDANCE WITH THE CURRENT LEE COUNTY DEPARTMENT OF TRANSPORTATION STANDARDS AND ALL REQUIRED INSPECTIONS PERFORMED BY THEM. CONTRACTOR SHALL PROVIDE BOND AND PERMIT FEE AS REQUIRED.
- PAVEMENT MARKINGS AND SIGNS SHALL BE IN STRICT ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AND FDOT STANDARD INDEX #17346.
- ALL PVIOUS AREAS WITHIN THE PROJECT CONSTRUCTION LIMITS SHALL BE GRASSED, SODDED OR MULCHED; OR IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN IF INCLUDED WITH THIS PLAN SET.
- LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL UTILITIES AND BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FEATURES AFFECTING HIS WORK. ANYTHING NOT SHOWN ON THESE DRAWINGS THAT WILL CAUSE A CHANGE TO THE CONSTRUCTION PROJECT SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND SHALL NOT CONSTITUTE AN EXTRA, UNLESS APPROVED BY THE ENGINEER.
- CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON THE PLANS. IF ANY DISCREPANCIES IN QUANTITIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND/OR L.C.D.O.T.
- ALL REGULATORY AND PERMITTING AGENCIES' REQUIREMENTS SHALL BE COMPLIED WITH.
- APPROPRIATE TURBIDITY CONTROL DEVICES (E.G. SILT FENCES, HAY BAILS) WILL BE UTILIZED DURING ALL PHASES OF INSTALLATION AND GRADING. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE NPDES NOTICE OF INTENT, NOTICE OF TERMINATION, AND LEE COUNTY RIGHT OF WAY PERMITS. NOI MUST BE FILED WITH FDEP IN ACCORDANCE WITH DEP DOCUMENT NO. 62-621 AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR DEVELOPING AND MAINTAINING AN EFFECTIVE STORMWATER POLLUTION PREVENTION PLAN.
- TRAFFIC MUST BE MAINTAINED AT ALL TIMES AS PER LEE COUNTY DEPARTMENT OF TRANSPORTATION (L.C.D.O.T.) AND PER FLORIDA DEPARTMENT OF TRANSPORTATION (F.D.O.T.) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

- THE CONTRACTOR SHALL VERIFY ALL UTILITIES AND PROVIDE AT LEAST 48 HOURS NOTICE TO THE INDIVIDUAL UTILITY COMPANIES AND F.D.O.T. AND L.C.D.O.T. PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL REPLACE ALL PAVEMENT, CURBS, DRIVEWAYS, SIDEWALKS, FENCES, ETC., WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL RESTORE ALL AREAS AFFECTED BY THE CONSTRUCTION TO ITS ORIGINAL CONDITION, OR BETTER.
- WITHIN THE F.D.O.T. AND L.C.D.O.T. RIGHT-OF-WAY, ALL DISTURBED AREAS SHALL RECEIVE GRASSING (SEEDING) OR SODDING MATERIALS IN ACCORDANCE WITH F.D.O.T. SPECIFICATIONS. THOSE AREAS THAT ARE CLASSIFIED AS DRAINAGE DITCHES SHALL RECEIVE FULL SOLID SOD.
- THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
- ALL FRAMES, COVERS, VALVE BOXES, METER BOXES, AND MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE UPON COMPLETION OF PAVING OR RELATED CONSTRUCTION. ALL VALVE PADS SHALL BE POURED IN PLACE. NO PRE-FORMED VALVE PADS ALLOWED.
- THE CONTRACTOR SHALL REMOVE AND REPLACE ALL UNSUITABLE FILL MATERIAL ENCOUNTERED WITHIN THE ROADWAY. THE DETERMINATION OF UNSUITABILITY AND EXTENT OF REMOVAL MUST BE COORDINATED WITH AND APPROVED BY THE L.C.D.O.T. AND/OR THE ENGINEER. THE REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL SHALL BE PAID FOR ON A CUBIC YARD BASIS UNDER PAY ITEM NO. 120-4. WORK UNDER THIS ITEM INCLUDES REPLACING THE EXCAVATED UNSUITABLE MATERIAL WITH SUITABLE MATERIAL COMPACTED AS REQUIRED. UPON EXCAVATION OF ANY UNSUITABLE MATERIAL THE CONTRACTOR SHALL STOCKPILE THE MATERIAL ON-SITE IN SUCH A FASHION THAT A REASONABLE ESTIMATE OF THE TOTAL REMOVED VOLUME CAN BE MADE. EXCAVATED UNSUITABLE MATERIAL MAY BE PLACED IN SELECTED LOCATIONS ALONG THE ROADWAY SIDE SLOPES WITH APPROVAL FROM THE L.C.D.O.T. AND/OR ENGINEER. (SEE NOTE 28. FOR MEDIAN BACKFILL FILL)
- WATER TABLE SHOWN ON CROSS SECTIONS MAY DIFFER FROM SHWT.
- OFFSET FOR DRAINAGE STRUCTURES ARE LOCATED AS FOLLOWS:  
FOR CURB INLETS - ALONG THE CENTER LINE OF THE CURB INLET AT THE PAVEMENT LIP EDGE,  
FOR DITCH BOTTOM INLETS - AT THE CENTER OF THE INLET,  
FOR MANHOLES - AT THE CENTER OF THE MANHOLE RIM,  
FOR MITERED END SECTIONS - AT THE LOC. REF. POINT AS SHOWN ON F.D.O.T. INDEX NO. 272,  
FOR ENDWALLS - AT THE STANDARD LOCATION CONTROL AS SHOWN ON F.D.O.T. INDEX NO. 250.
- COST OF FILTER FABRIC TO BE INCLUDED IN THE COST OF THE BOX CULVERT.
- THERE WILL BE NO ADDITIONAL PAYMENT IF ROCK IS ENCOUNTERED. IT IS CONSIDERED INCIDENTAL TO THE ACTIVITY BEING PERFORMED.
- COST OF SODDING TO INCLUDE FERTILIZER AND WATER NECESSARY TO SUSTAIN SOD THROUGHOUT CONSTRUCTION. COST OF SODDING TO ALSO INCLUDE REGULAR MOWING AT REASONABLE INTERVALS AS DETERMINED BY LEE COUNTY.
- CONTRACTOR IS REQUIRED TO SUBMIT M.O.T. PLANS FOR REVIEW AND APPROVAL BY LEE COUNTY D.O.T. PRIOR TO CONSTRUCTION. M.O.T. PLANS SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF FDOT DESIGN STANDARDS.
- COST OF FILTER FABRIC TO BE INCLUDED IN THE COST OF RIPRAP.
- MEDIAN BACKFILL (TOP 6" OF SOIL) SHALL BE LIGHTLY COMPACTED, FERTILE, FRIABLE, NATIVE SOIL WITHOUT MIXTURE OF SUBSOIL MATERIALS. ALL MATERIAL SHALL BE SCREENED AND FREE FROM HEAVY CLAY, STONES, LIME, LUMPS, PLANTS, ROOTS, OR OTHER FOREIGN MATERIALS, NOXIOUS GRASSES OR WEEDS. IT SHALL NOT CONTAIN TOXIC SUBSTANCES WHICH MAY BE HARMFUL TO PLANT GROWTH. MEDIAN BACKFILL (TOP 6" OF SOIL) SHALL BE PAID PER SQUARE YARD OF FINISH SOIL LAYER (MEDIAN GRASSING OPERATION) UNDER PAY ITEM NO. 162-3-101.

## UTILITY INFORMATION:

TELEPHONE: EMBARQ  
2820 CARGO STREET  
FORT MYERS, FL 33916  
(239) 336-2020

REFUSE: WASTE PRO  
13110 RICKENBACKER PARKWAY  
FORT MYERS, FL 33913  
(239) 337-0800

WATER/SEWER: LEE COUNTY UTILITIES  
1500 MONROE STREET  
FORT MYERS, FL 33902  
(239) 533-8150

CABLE: COMCAST  
26102 BONITA GRANDE DRIVE  
BONITA SPRINGS, FL 34135  
(239) 432-1805

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

FIRE DISTRICT: SAN CARLOS PARK FIRE PROTECTION  
& RESCUE SERVICE DISTRICT  
19591 BEN HILL GRIFFIN PARKWAY  
FORT MYERS, FL 33913  
(239) 267-7525

## ABBREVIATIONS

ABD.	ABANDONED	MOD.	MODIFIED
AC.	ACRE	N	NORTH
AH	AHEAD	NO.	NUMBER
ALT.	ALTERNATE	NGVD	NATIONAL GEODETIC VERTICAL DATUM
AL.	ALUMINUM	NPT	NATIONAL PIPE THREAD
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	NE	NORTHEAST
ARV	AIR RELEASE VALVE	NLY.	NORTHERLY
ASPH.	ASPHALT	NW	NORTHWEST
ASSEM.	ASSEMBLY	OC	ON CENTERS
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	O/E	OR EQUAL
AWWA	AMERICAN WATER WORKS ASSOCIATION	O/O	OUTSIDE TO OUTSIDE
AVE	AVENUE	PKWY	PARKWAY
BK	BACK	PAVT.	PAVEMENT
BLVD.	BOULEVARD	PEN.	PENETRATION
BM	BENCH MARK	PI	POINT OF INTERSECTION
BOT.	BOTTOM	PL	PLACE
BO	BLOW OFF	PRM	PERMANENT REFERENCE MONUMENT
BTFLY.	BUTTERFLY	PT	POINT OF TANGENCY
CAP	CORRUGATED ALUMINUM PIPE	PROP. PGL	PROPOSED PROFILE GRADE LINE
CATV	CABLE TELEVISION	PS	PUMP STATION
CB	CATCH BASIN	PSI	POUNDS PER SQUARE INCH
C & G	CURB AND GUTTER	PVC	POLYVINYL CHLORIDE
C/C	CENTER TO CENTER	PW	POTABLE WATER
CF	CUBIC FOOT	P/L	PROPERTY LINE
CL	CENTER LINE	PUE	PUBLIC UTILITY EASEMENT
CMP	CORRUGATED METAL PIPE	R.	RADIUS
CO	CLEAN OUT	RCP	REINFORCED CONCRETE PIPE
COR.	CORNER	RDWY.	ROADWAY
CONC.	CONCRETE	RED.	REDUCER
CORP.	CORPORATION	REF.	REFERENCE
CT	COURT	REINF.	REINFORCED
DIA.	DIAMETER	RELOC.	RELOCATION
DIM.	DIMENSION	REM.	REMOVAL
DRWY	DRIVEWAY	REPL.	REPLACE
DWG.	DRAWING	REQ.	REQUIRED
DIP	DUCTILE IRON PIPE	R/W	RIGHT OF WAY
E	EAST	ROW	RIGHT OF WAY
EW	EACH WAY	RT	RIGHT
EOP	EDGE OF PAVEMENT	RW	RIGHT OF WAY
EL.	ELEVATION	SAN.	SANITARY
ELEC.	ELECTRICAL	SEW.	SEWER
ELEV.	ELEVATION	SCH.	SCHEDULE
ESMT	EASEMENT	S	SOUTH
ERCP	ELLIPTICAL REINFORCED CONCRETE PIPE	SD	STORM DRAIN
EX.	EXISTING	SE	SOUTHEAST
EXIST.	EXISTING	SECT.	SECTION
EXIST. PGL	EXISTING PROFILE GRADE LINE	SHLDR.	SHOULDER
FAC	FLORIDA ADMINISTRATIVE CODE	SLY.	SOUTHERLY
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION	SPEC.	SPECIFICATION
FH	FIRE HYDRANT	SQ. FT.	SQUARE FOOT
FL	FLOW LINE	SQ. IN.	SQUARE INCH
FO	FIBER OPTIC	SS	SANITARY SEWER
FOC	FIBER OPTIC CABLE	STD.	STANDARD
FLG.	FLANGED	ST.	STREET
FT	FOOT	STA.	STATION
FM	FORCE MAIN	SW	SOUTHWEST
GALV.	GALVANIZED	SWK	SIDEWALK
GAL.	GALLON	TEL.	TELEPHONE
GM	GAS MAIN	TB	TELEPHONE BOX
IN.	INCH	TER	TERRACE
INC.	INCORPORATED	TYP.	TYPICAL
INV	INVERT	USF	UNITED STATES FOUNDRY
IRR.	IRRIGATION LINE	UTS	UNITED TELEPHONE SERVICE
JB	JUNCTION BOX	UTIL.	UTILITIES
LB.	POUND	VAR.	VARIES
LBR	LIMEROCK BEARING RATIO	VOL	VOLUME
LCU	LEE COUNTY UTILITIES	WM	WATER MAIN
LF	LINEAR FOOT	W	WEST
LN	LANE	W/	WITH
LT	LEFT	XSEC	CROSS SECTION
MAX.	MAXIMUM		
MH	MANHOLE		
MIN.	MINIMUM		
MISC.	MISCELLANEOUS		
MJ	MECHANICAL JOINT		
MV	MEDIUM VOLTAGE		

## LEGEND

	MANHOLE I.D.
	PROPOSED FORCE MAIN
	PROPOSED FIRE HYDRANT ASSEMBLY W\PIPE BOLLARDS (TYP)
	PROPOSED WATER MAIN & G.V.
	PROPOSED SANITARY SEWER MAIN (SDR 26 PVC) W\MANHOLE
	PROPOSED 6" SEWER LATERAL W\CLEAN-OUT
	PROPOSED LAKE
	ROCK BOULDER RIP-RAP OVER FILTER FABRIC
	EXIST. STORM DRAIN & INLET
	STRUCTURE I.D.
	PROP. STORM DRAIN & INLET
	MATCH EXISTING GRADE POINT
	PROPOSED CONTOUR ELEVATION
	PROPOSED ELEVATION (NGVD)
	EXISTING ELEVATION (NGVD)
	DRAINAGE FLOW ARROW
	FDOT (INDEX #304) SIDEWALK CURB RAMP W/I.D. TYPE AND DETECTABLE WARNING
	SOIL BORING NUMBER & LOCATION

NOTE: SEE UNIVERSAL ENGINEERING SCIENCES' GEOTECHNICAL REPORT FOR BORING LOGS AND ADDITIONAL GEOTECHNICAL INFORMATION

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

90% SUBMITTAL PLANS  
(AUGUST - 2009)

FL LICENSE No. 24070

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PROJ. DIR.	
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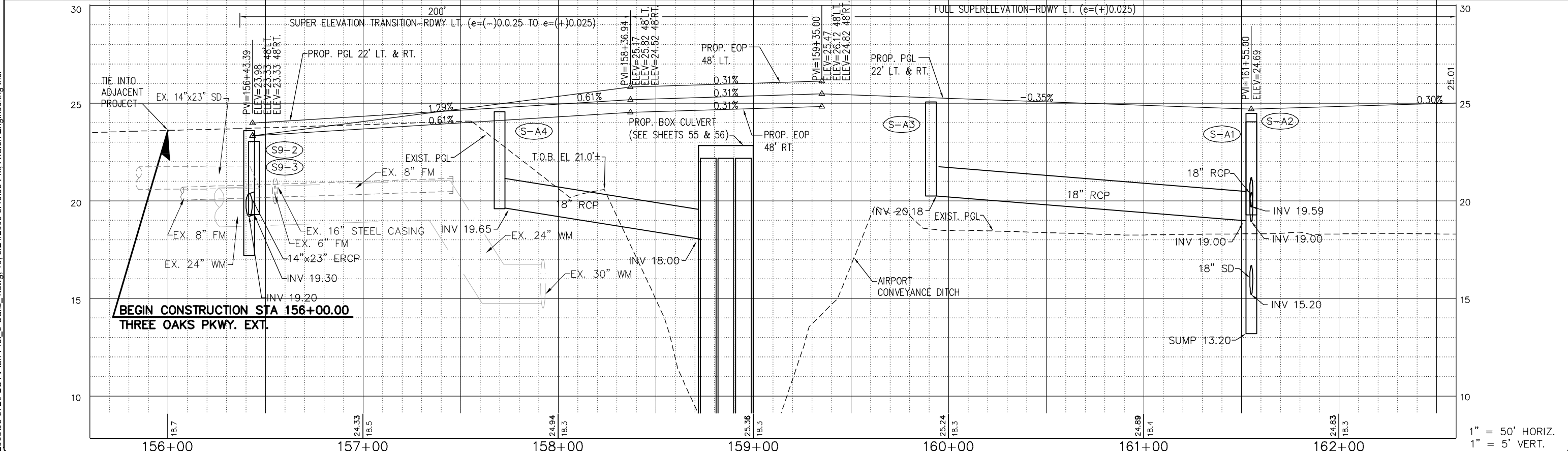
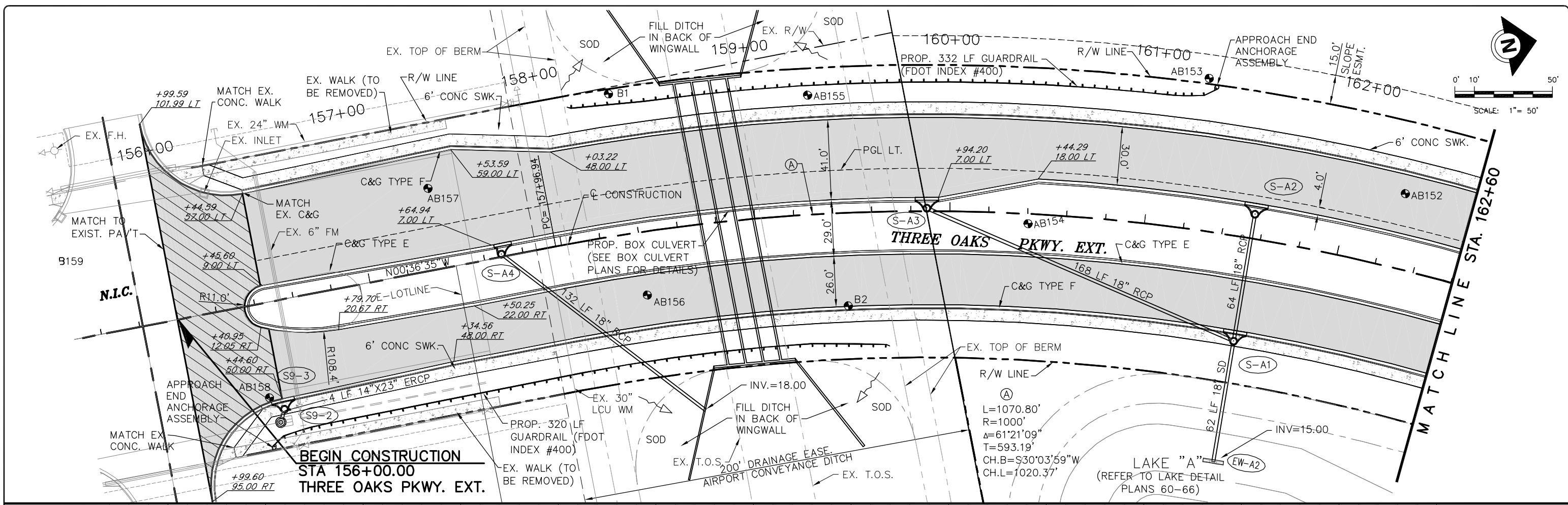
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	LEE COUNTY DEPARTMENT OF TRANSPORTATION (239) 533-8580
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THREE OAKS PARKWAY EXTENSION AIRPORT CANAL TO DANIELS PKWY. LEE COUNTY, FLORIDA
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GENERAL NOTES  
THREE OAKS PKWY EXT.

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18 OF 121



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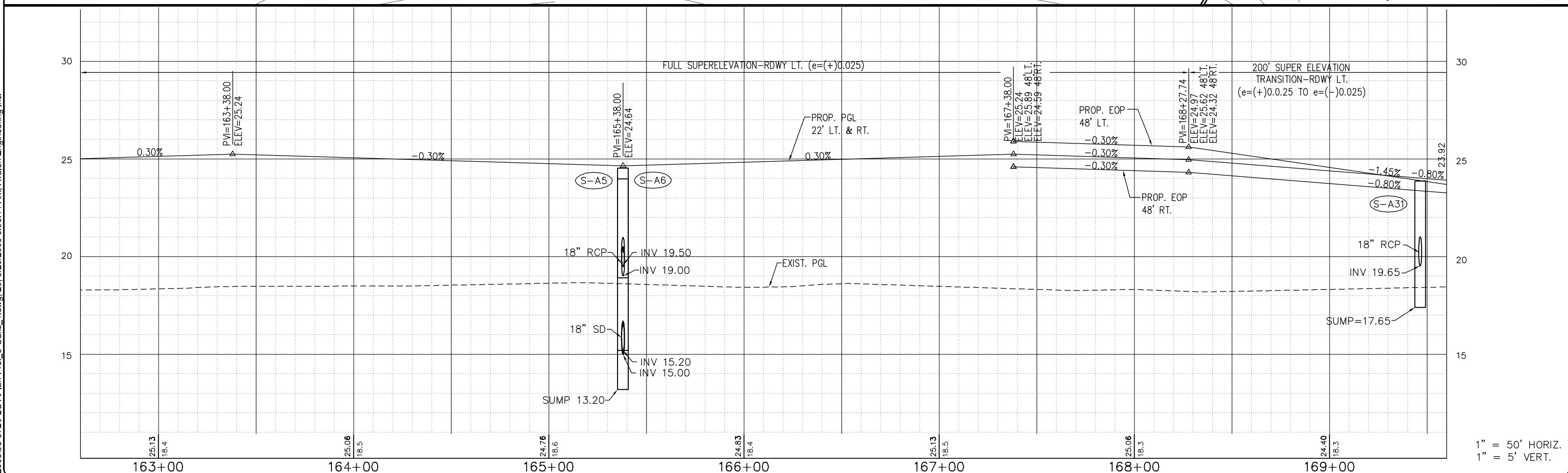
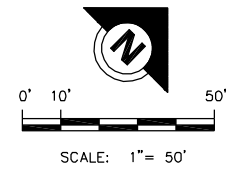
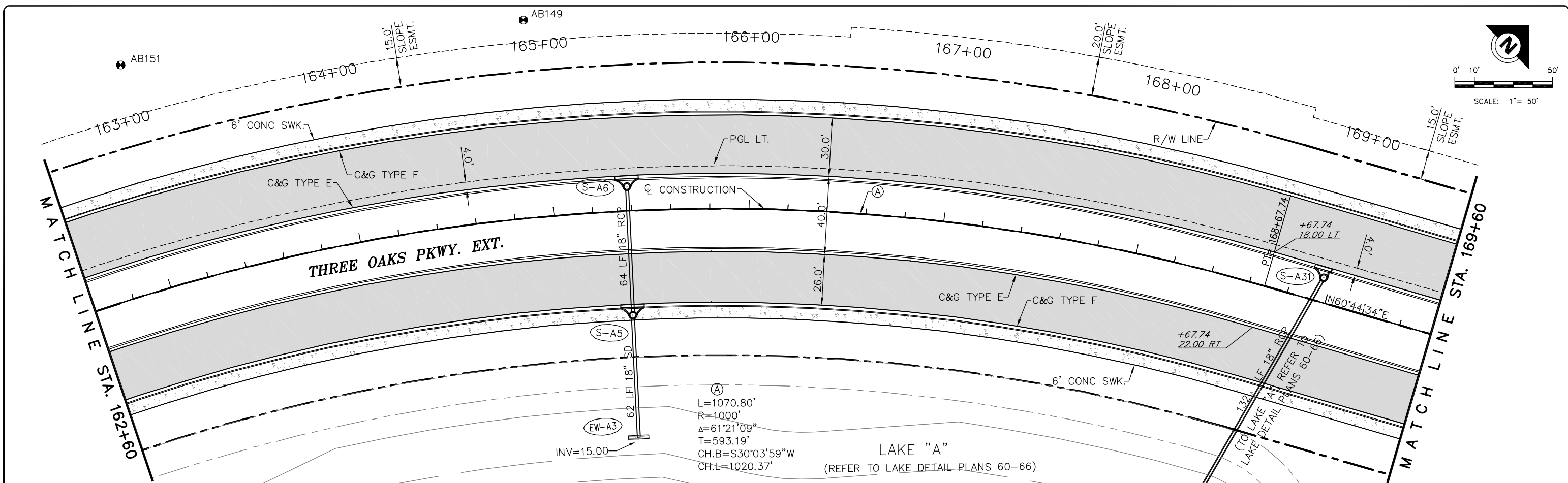
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**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY PLAN & PROFILE**  
STA 156+00 to 162+00

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**19 OF 121**



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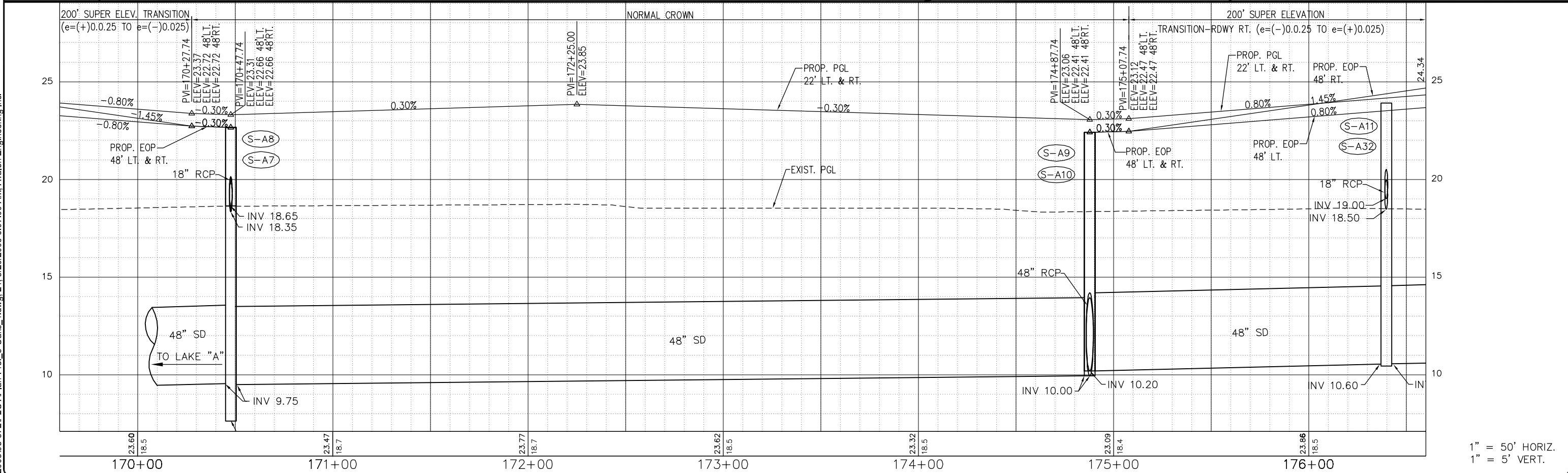
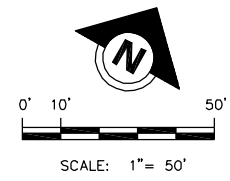
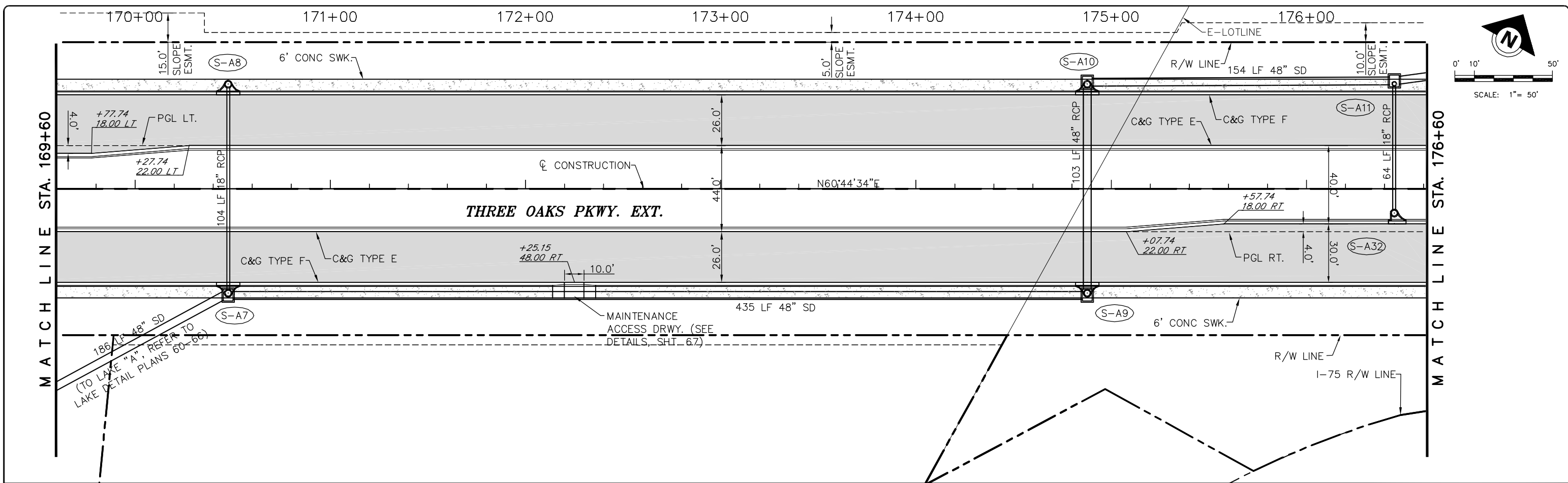
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 LEE COUNTY, FLORIDA

**ROADWAY PLAN & PROFILE**  
 STA 162+60 to 169+60

SHEET  
20 OF 121



1" = 50' HORIZ.  
1" = 5' VERT.

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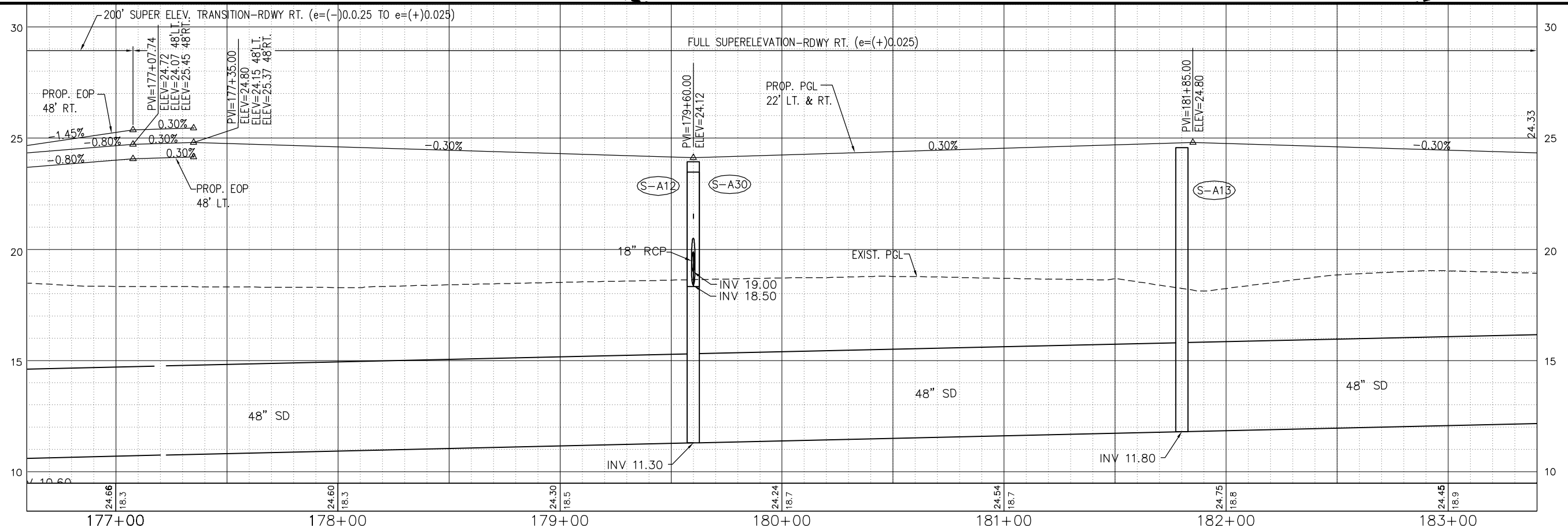
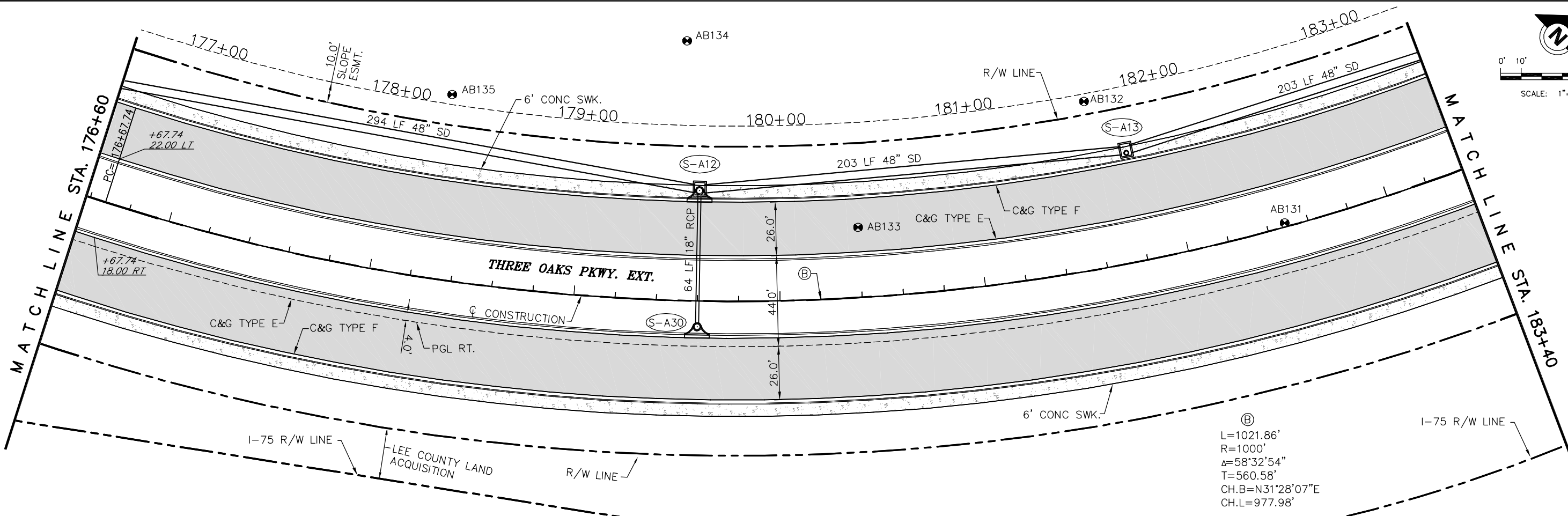
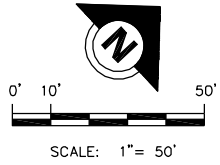
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LEE COUNTY, FLORIDA

**ROADWAY PLAN & PROFILE**  
STA 169+600 to 176+60

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21 OF 121



1" = 50' HORIZ.  
1" = 5' VERT.

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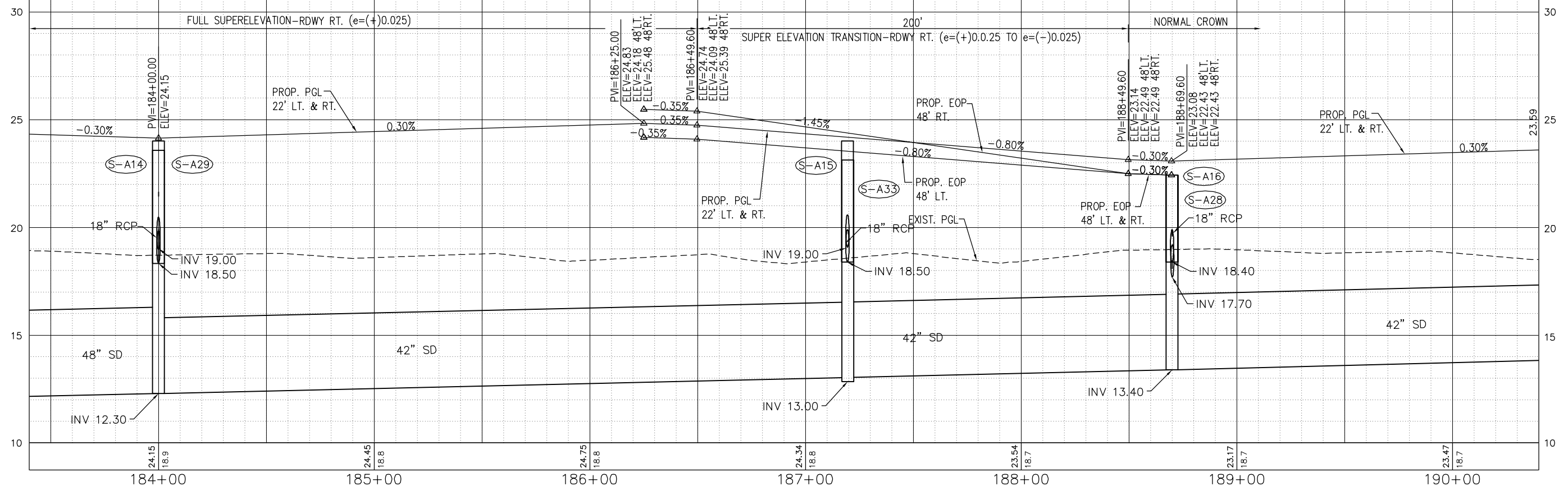
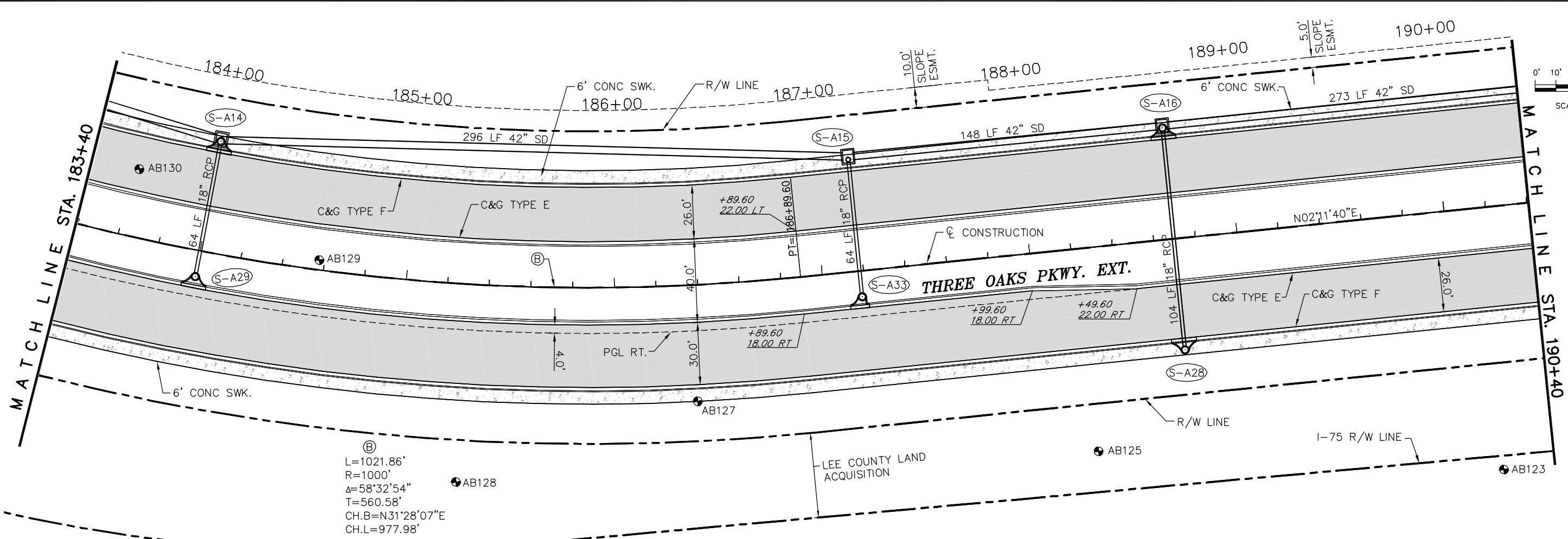
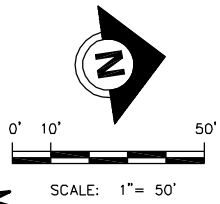
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**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY PLAN & PROFILE**  
STA 176+60 to 183+40

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**22 OF 121**



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1" = 5' VERT.

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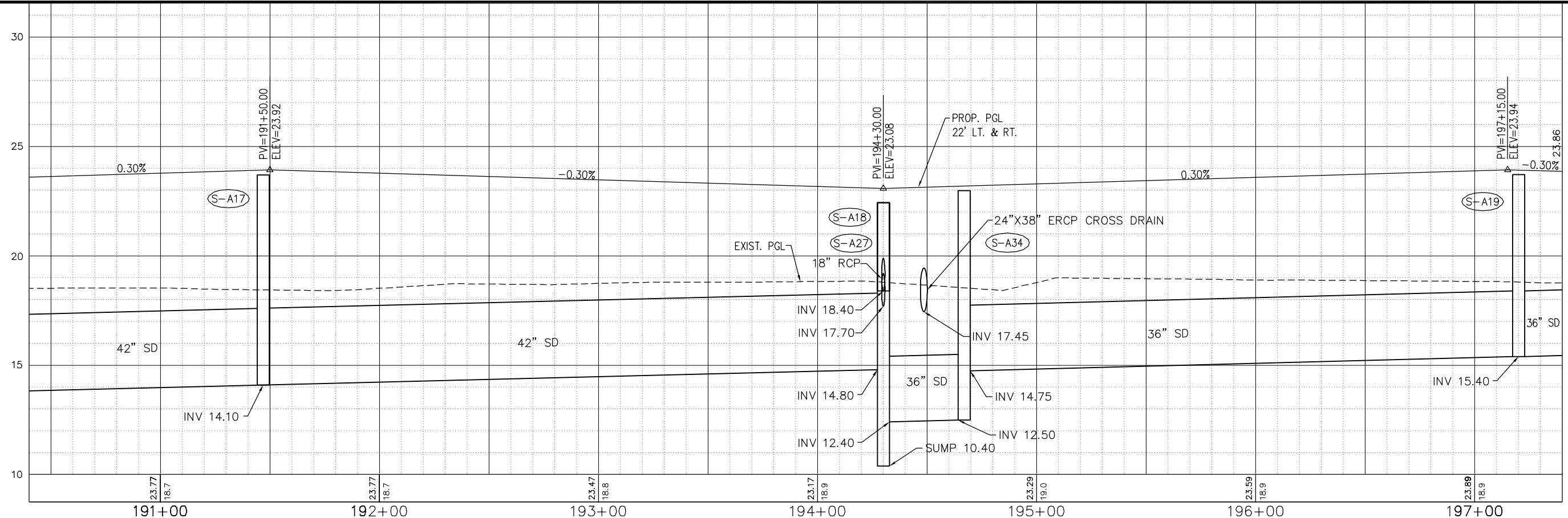
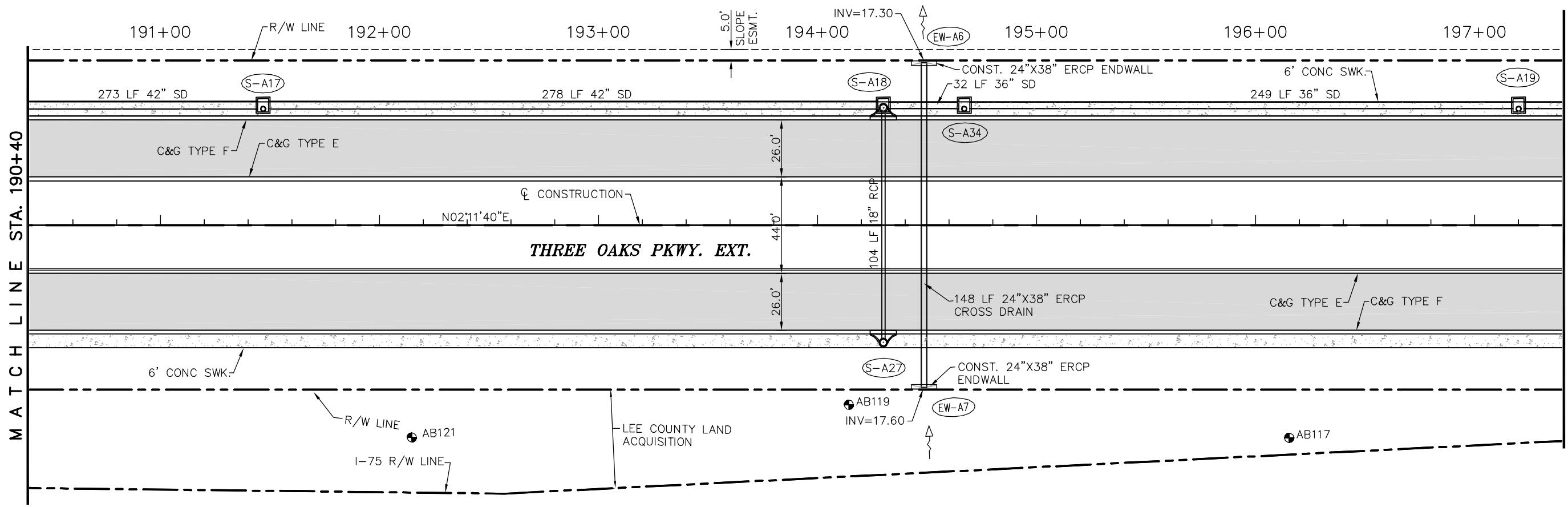
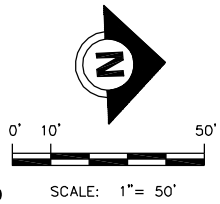
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**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY PLAN & PROFILE**  
STA 183+40 to 190+40

SHEET  
**23 OF 121**



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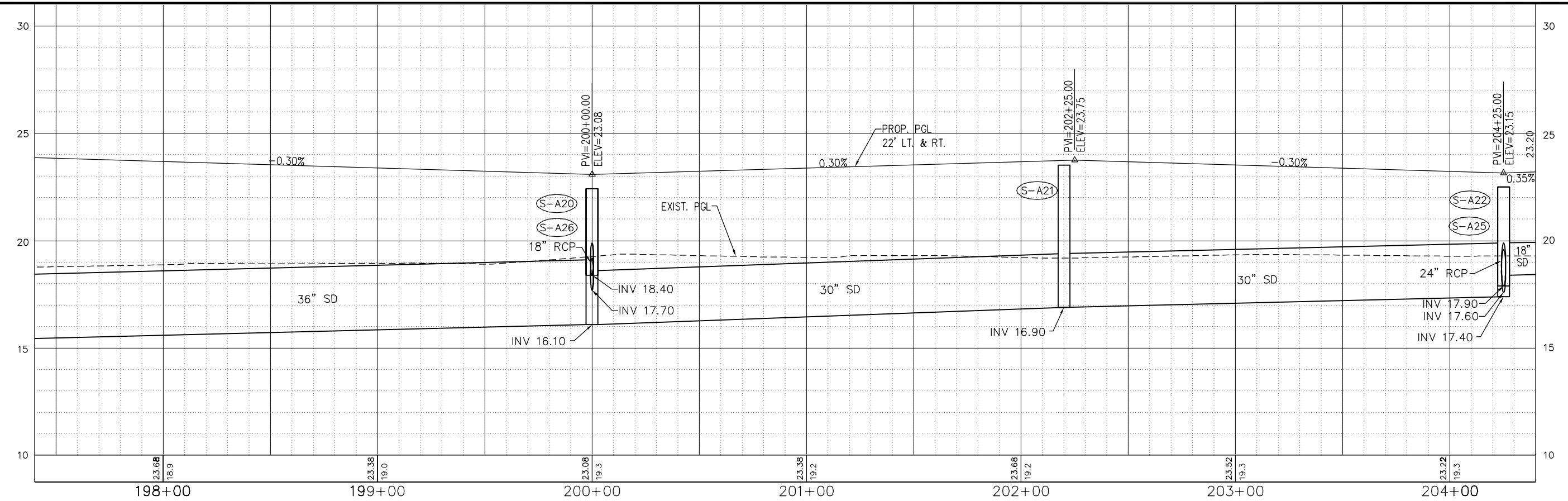
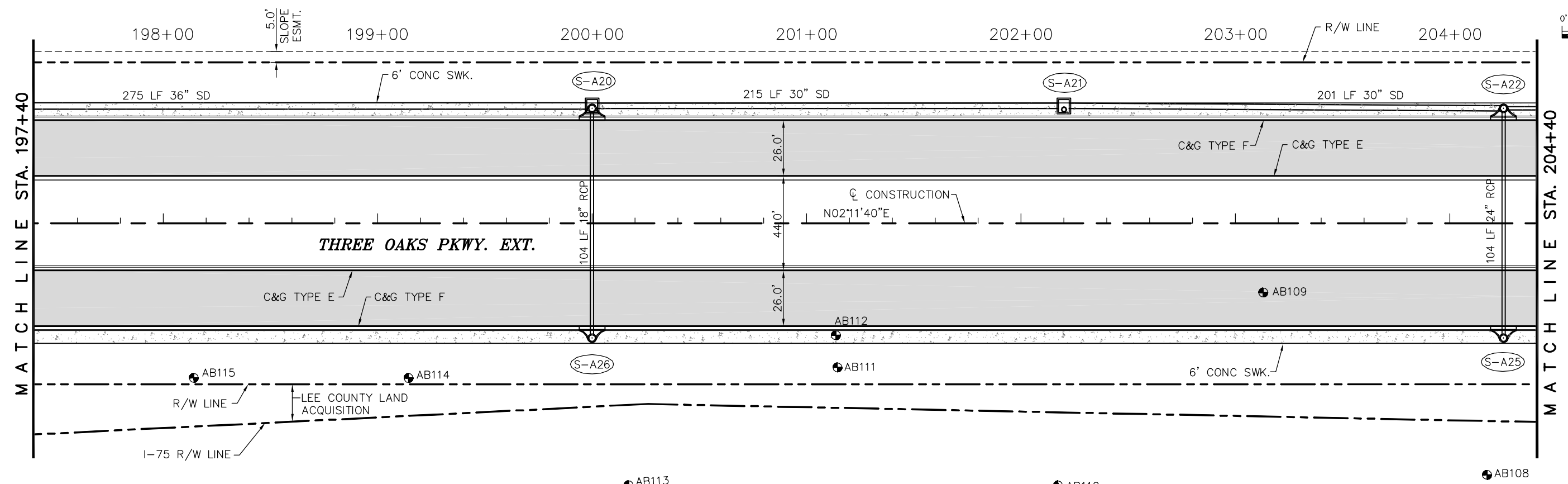
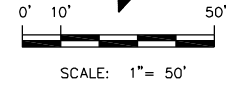
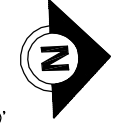
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**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY PLAN & PROFILE**  
**STA 190+40 to 197+40**

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**24 OF 121**





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**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

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 PROJ. DIR.   
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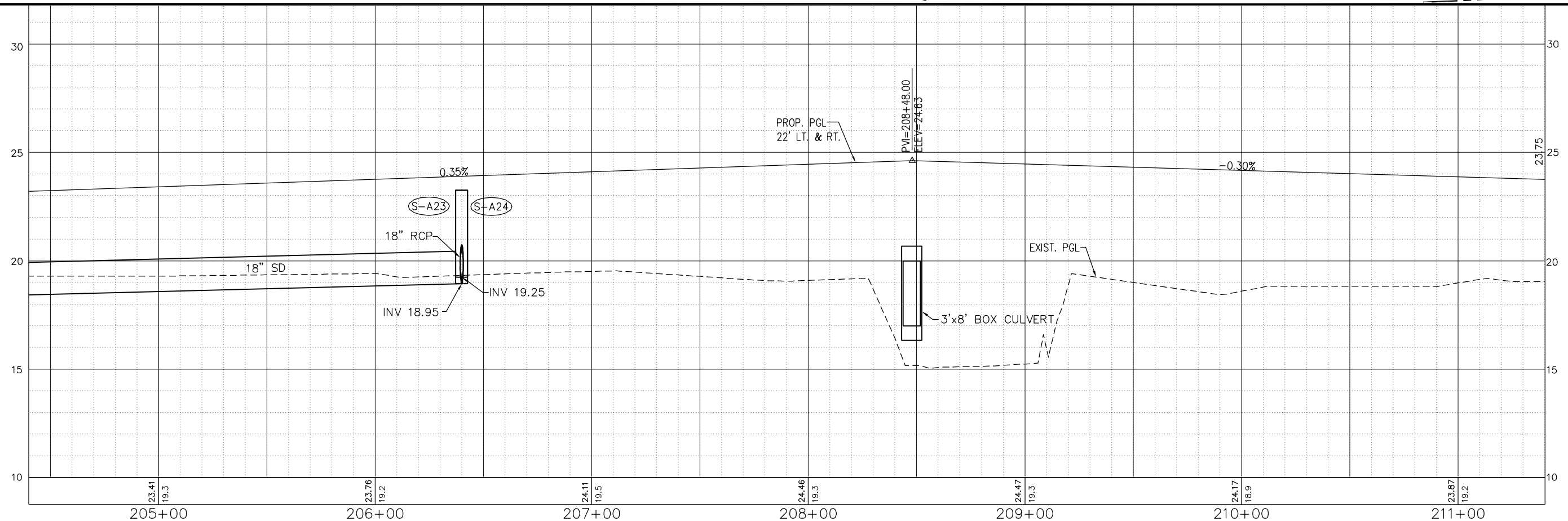
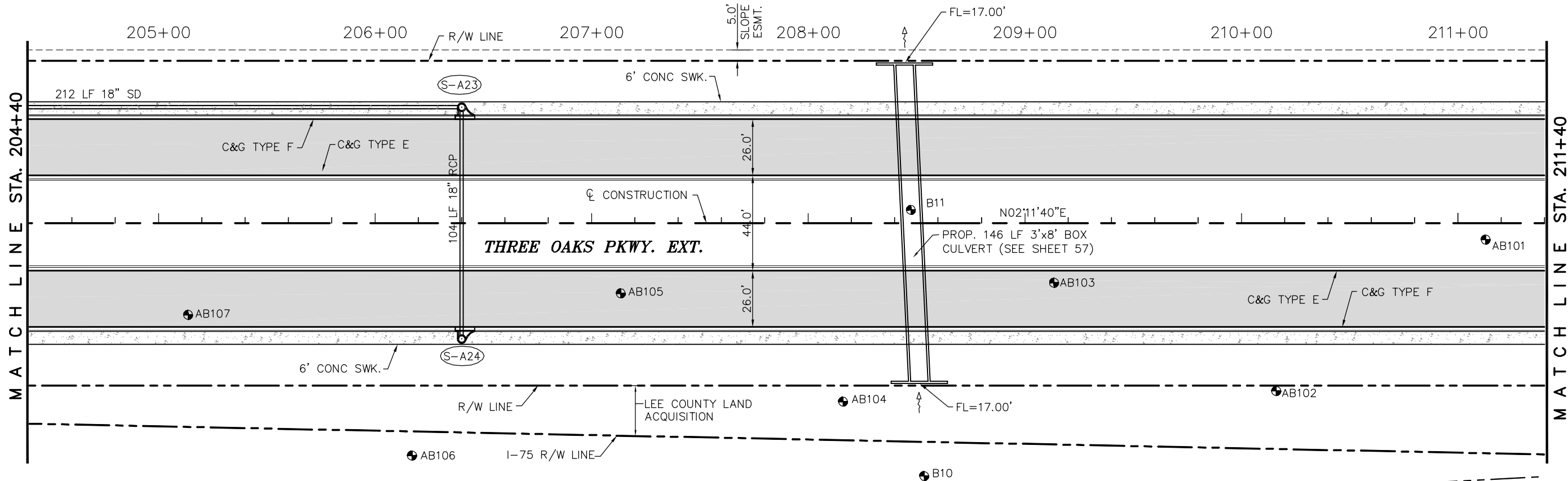
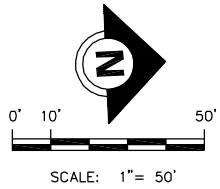
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**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**ROADWAY PLAN & PROFILE**  
**STA 197+40 to 204+40**

SHEET  
**25 OF 121**

1" = 50' HORIZ.  
1" = 5' VERT.



P:\CAD\2008\08-372\Plot\Plan-Prof\_3-Oaks\_2.dwg, 26, 8/20/2009 9:08:39 AM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

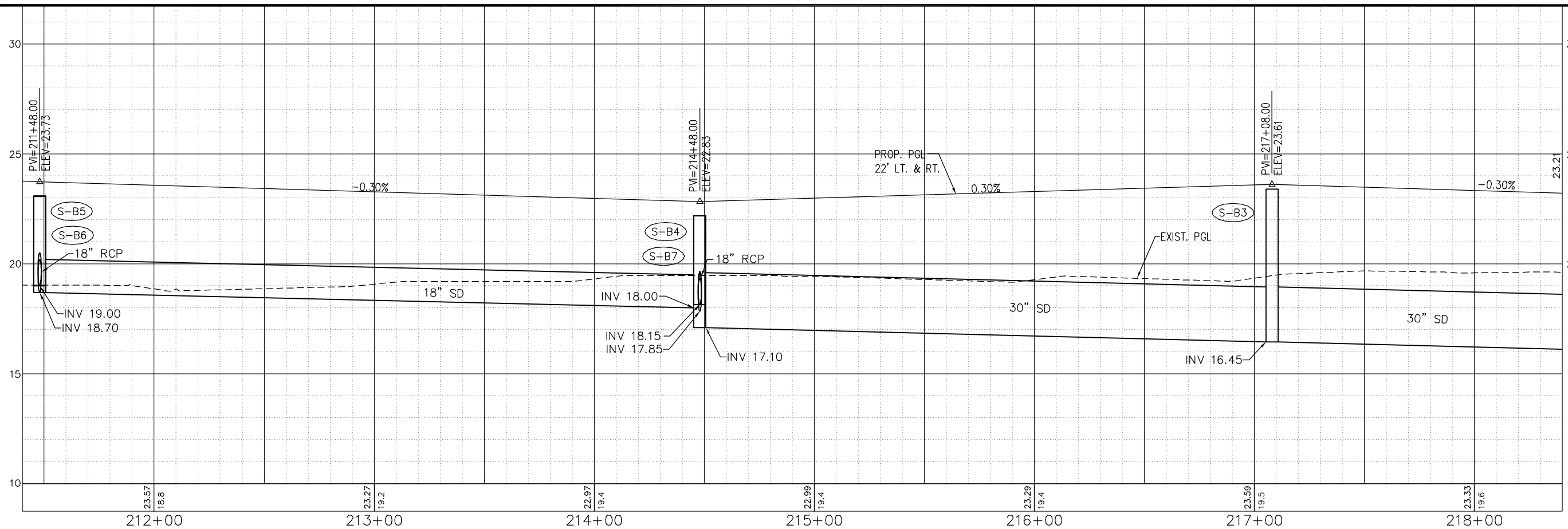
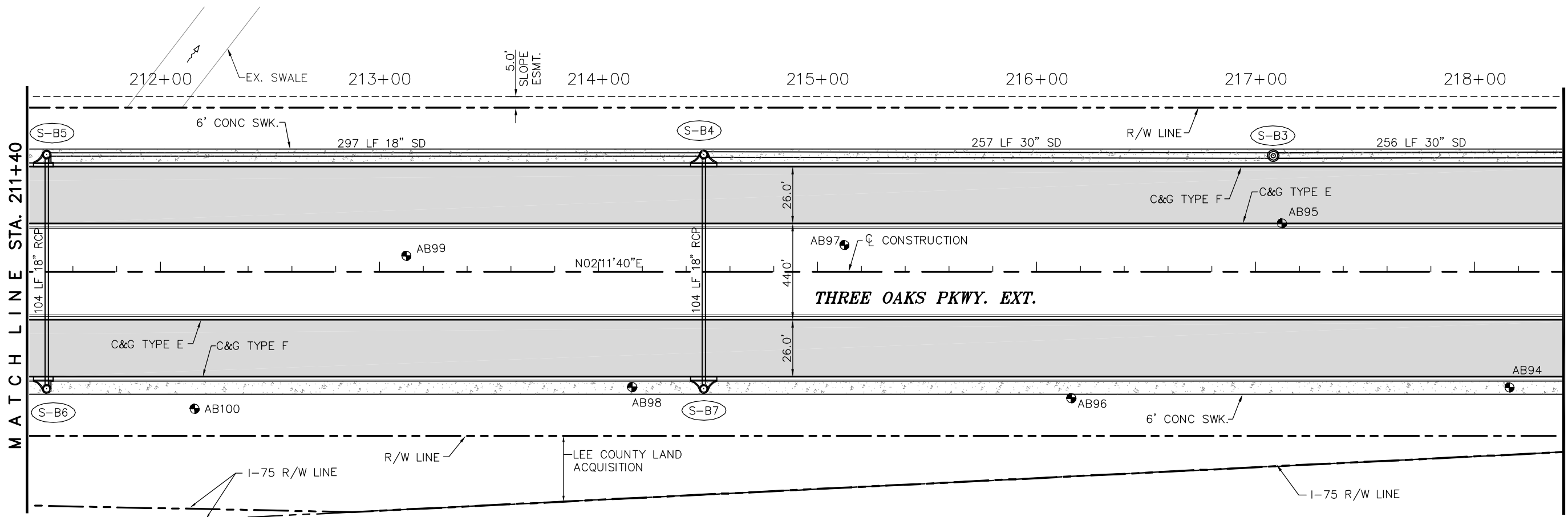
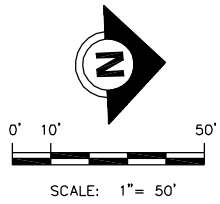
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY PLAN & PROFILE**  
STA 204+40 to 211+40

SHEET  
**26 OF 121**

1" = 50' HORIZ.  
1" = 5' VERT.



1" = 50' HORIZ.  
1" = 5' VERT.

P:\CAD\2008\08-372\Plot\Plan-Prof\_3-Oaks\_2.dwg, 27, 8/20/2009 9:08:54 AM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schragger, PE  
PROJ. DIR.  
APPROVED:

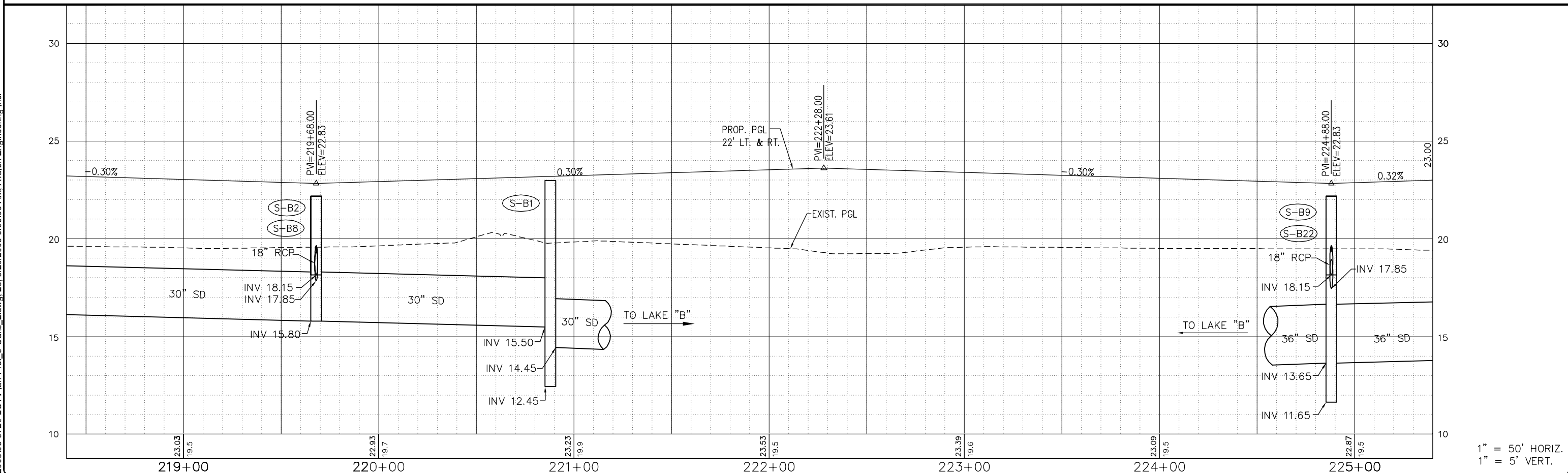
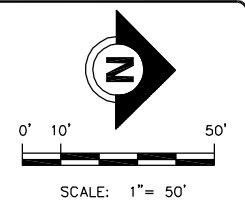
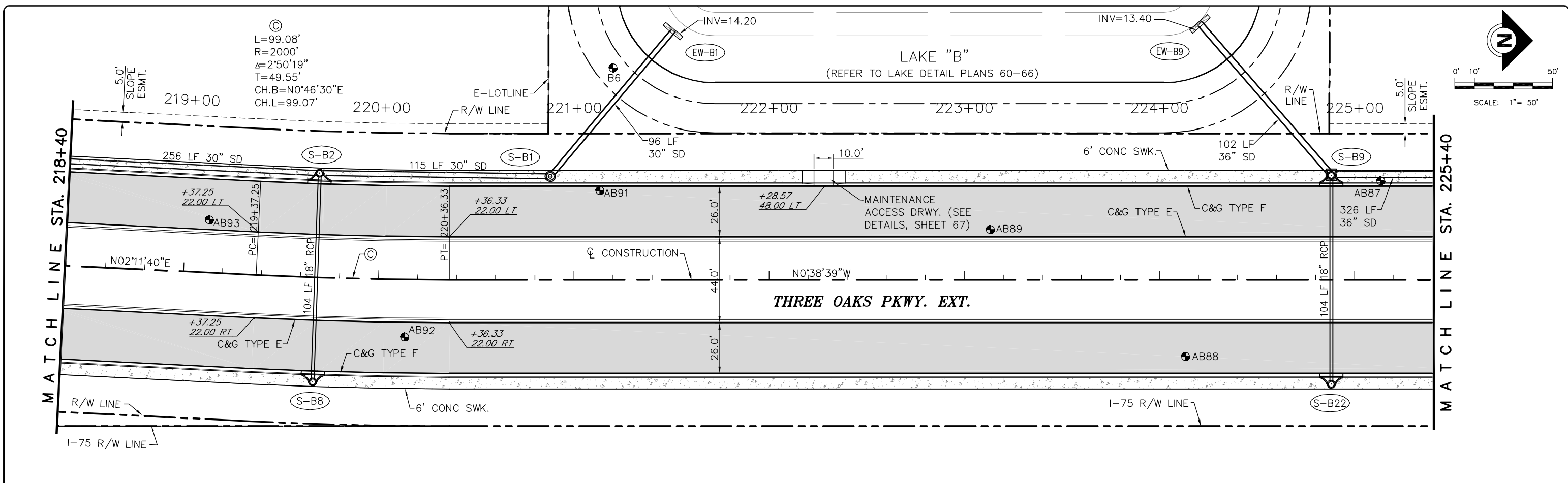
**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY PLAN & PROFILE**  
STA 211+40 to 218+40

SHEET  
27 OF 121



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DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
 (AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
 PROJ. MGR. Jack Schrager, PE  
 PROJ. DIR.  
 APPROVED:

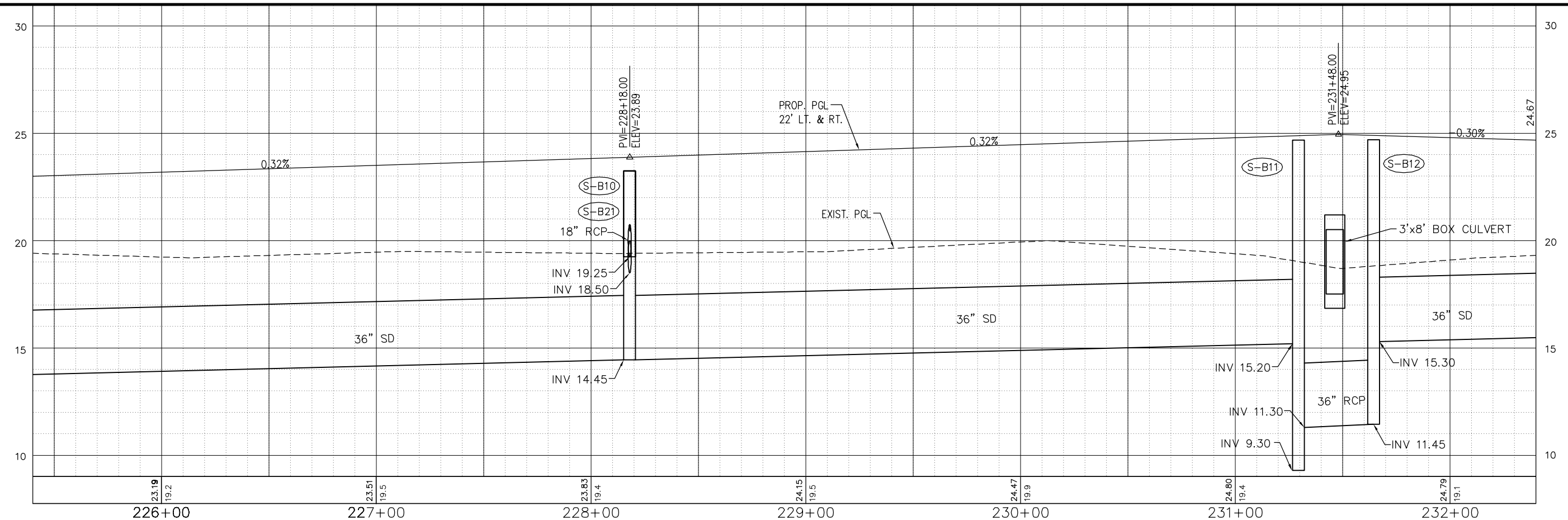
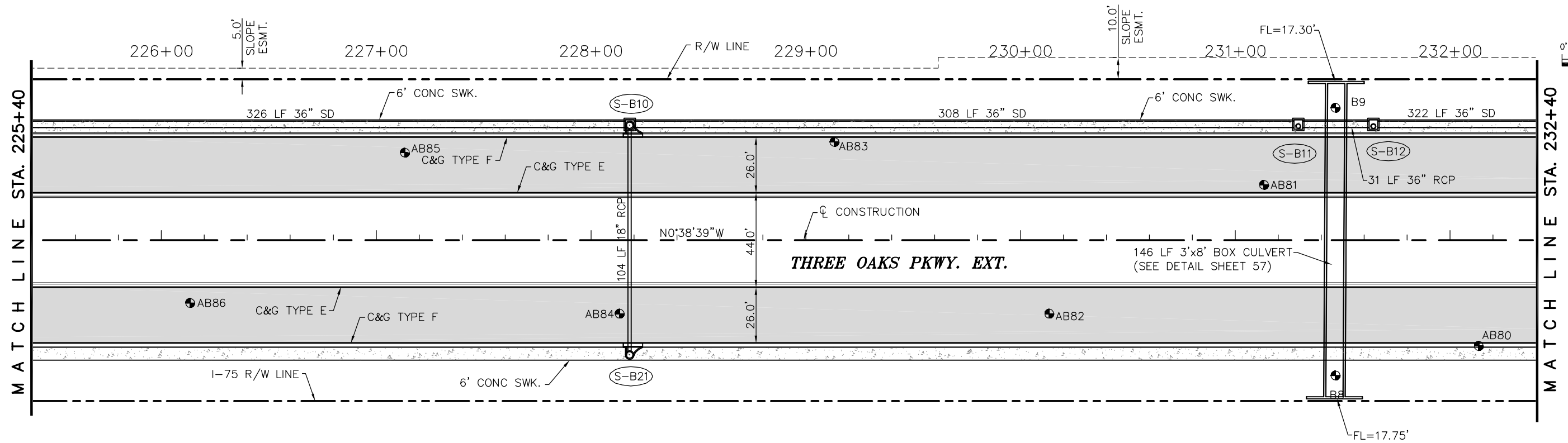
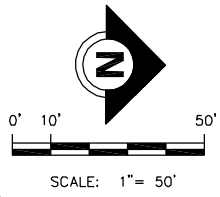
**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**ROADWAY PLAN & PROFILE**  
 STA 218+40 to 225+40

SHEET  
**28 OF 121**



1" = 50' HORIZ.  
1" = 5' VERT.

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DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

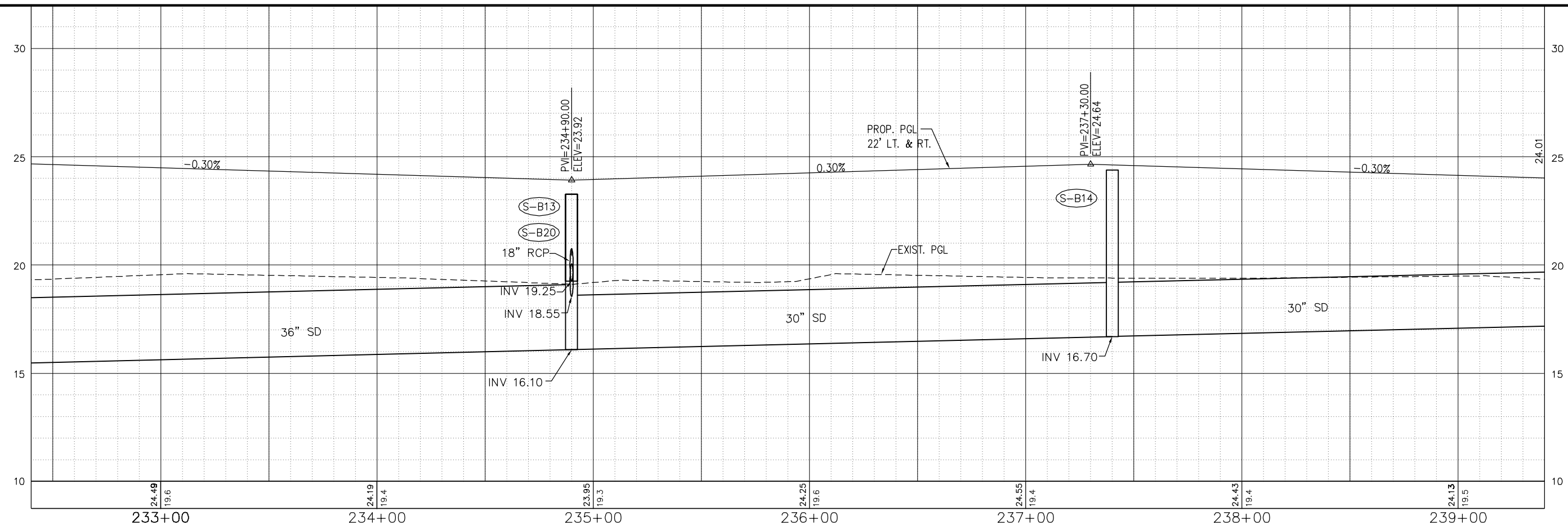
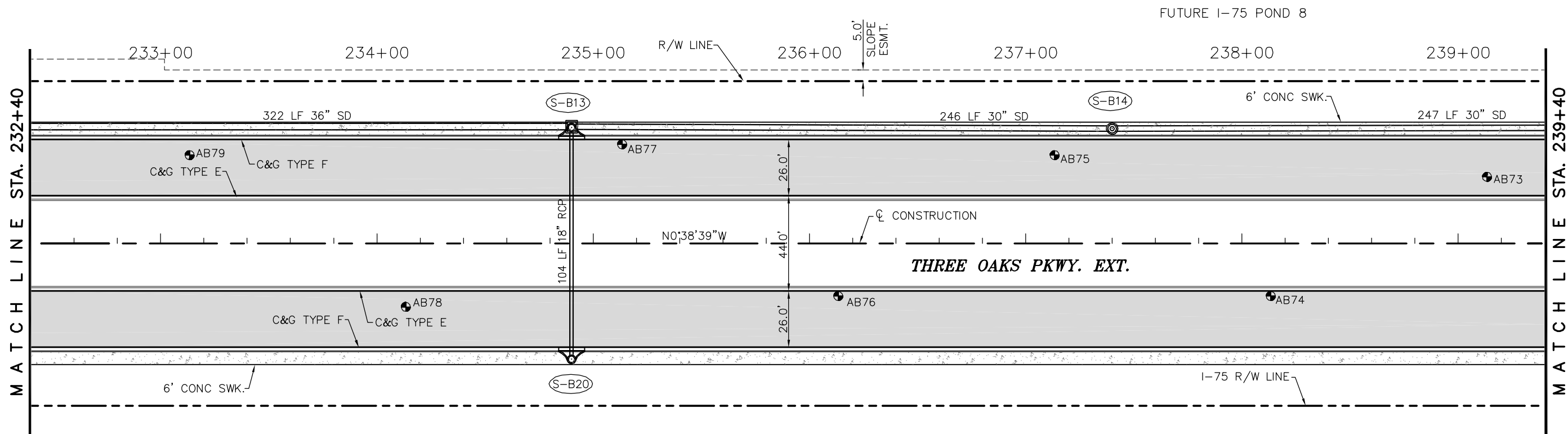
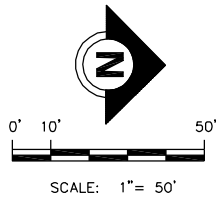
**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY PLAN & PROFILE**  
STA 225+40 to 232+40

SHEET  
**29 OF 121**



P:\CAD\2008\08-372\Plot\Plan-Prof\_3-Oaks\_2.dwg, 30, 8/20/2009 9:09:37 AM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrage, PE  
PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

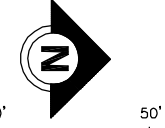
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

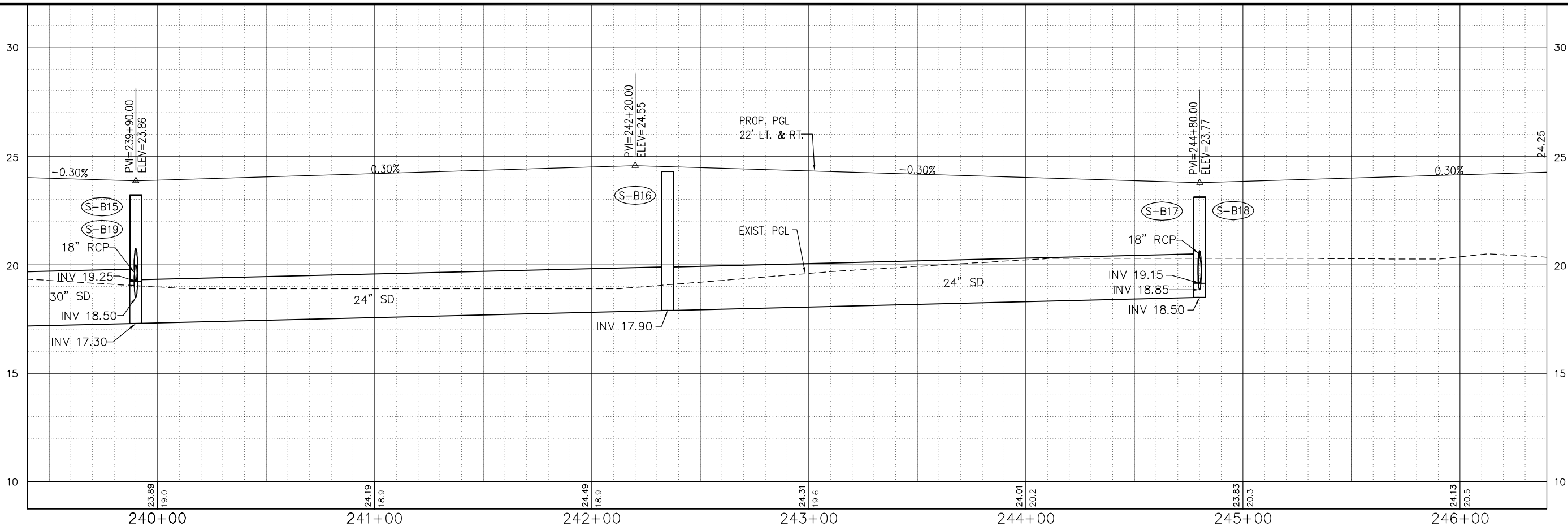
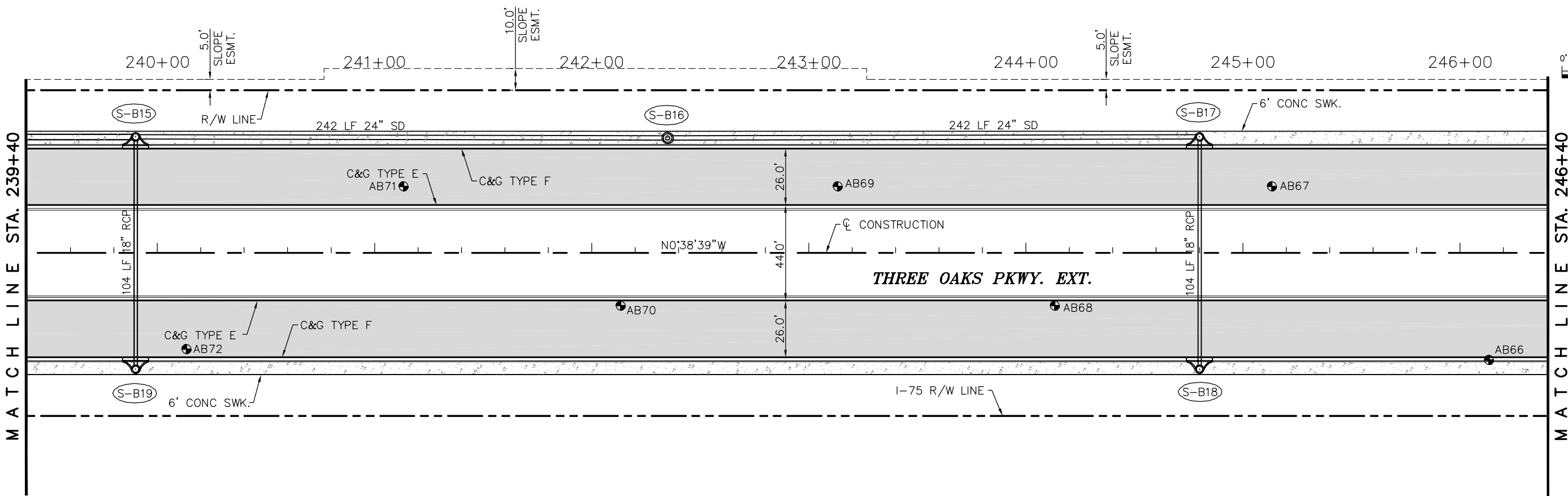
**ROADWAY PLAN & PROFILE**  
STA 232+40 to 239+40

SHEET  
30 OF 121

1" = 50' HORIZ.  
1" = 5' VERT.



SCALE: 1" = 50'



1" = 50' HORIZ.  
1" = 5' VERT.

P:\CAD\2008\08-372\Plot\Plan-Prof\_3-Oaks\_2.dwg, 31. 8/20/2009 9:09:54 AM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

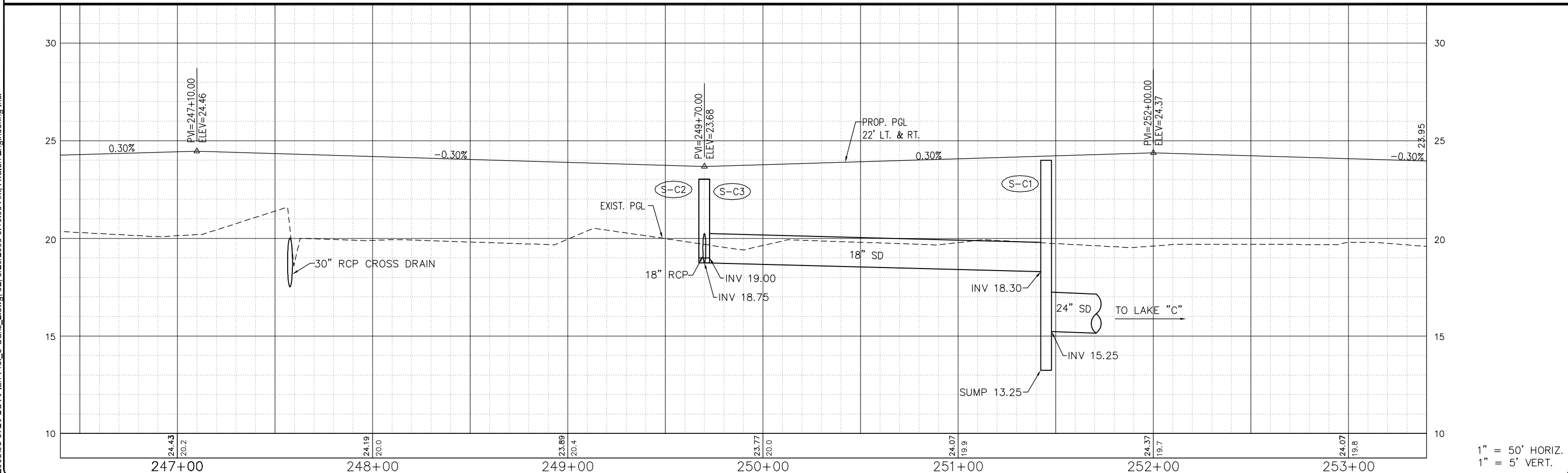
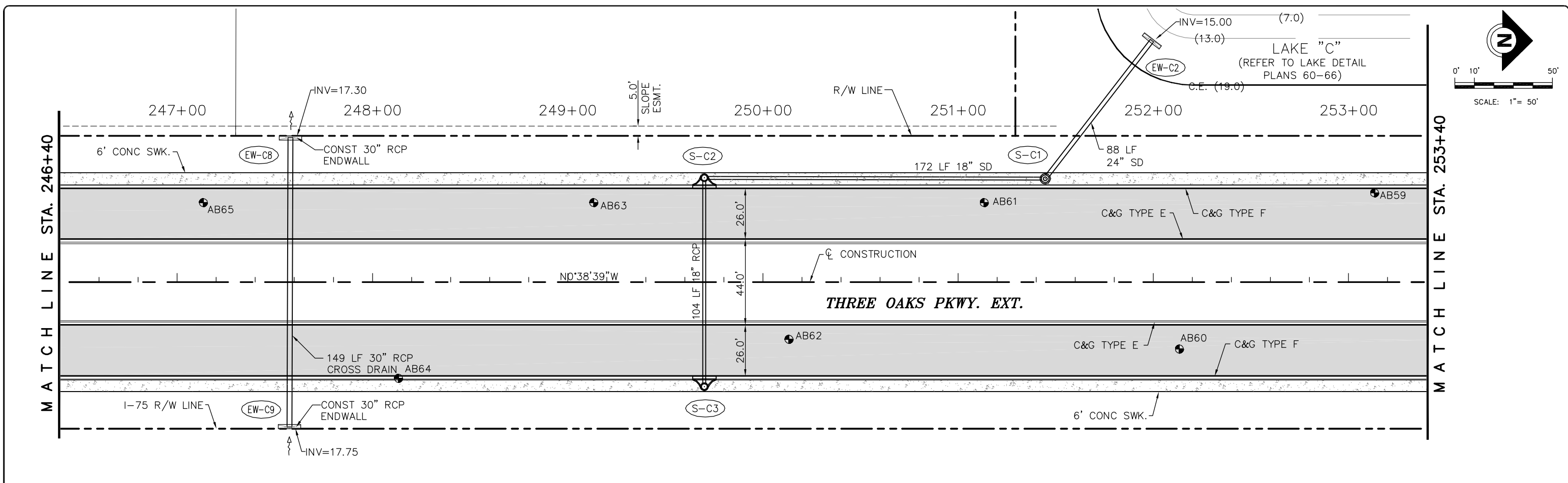
**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY PLAN & PROFILE**  
STA 239+40 to 246+40

SHEET  
31 OF 121



P:\CAD\2008\08-372\Plot\Plan-Prof\_3-Oaks\_2.dwg, 32, 8/20/2009 9:10:08 AM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

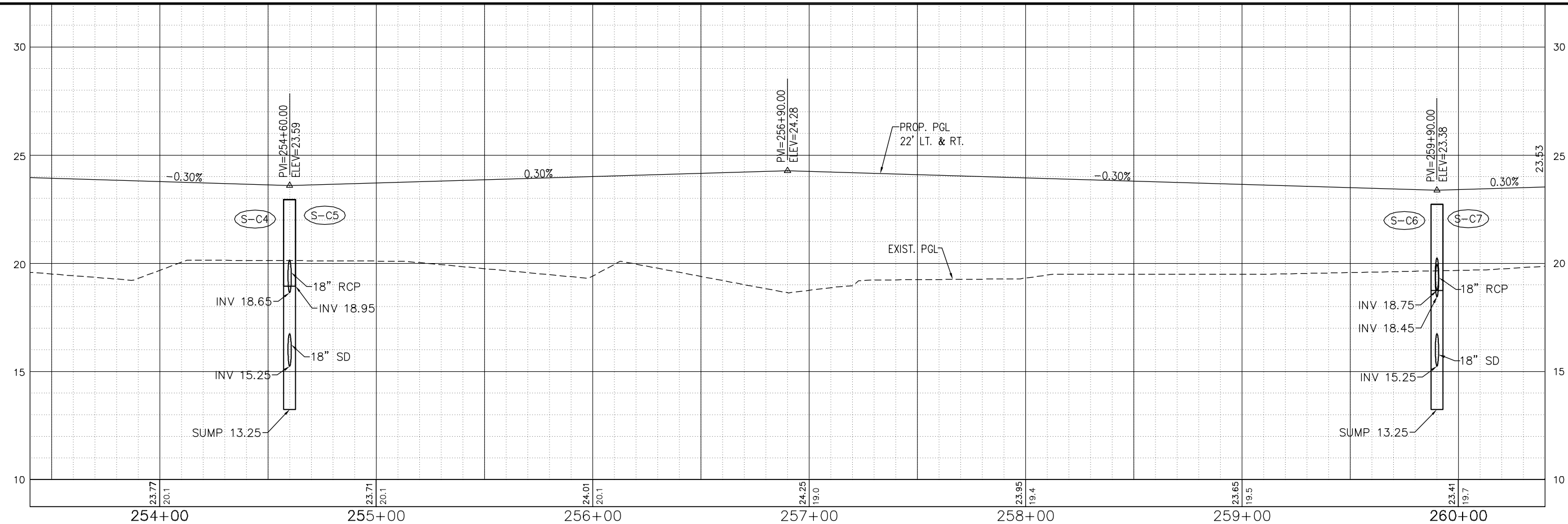
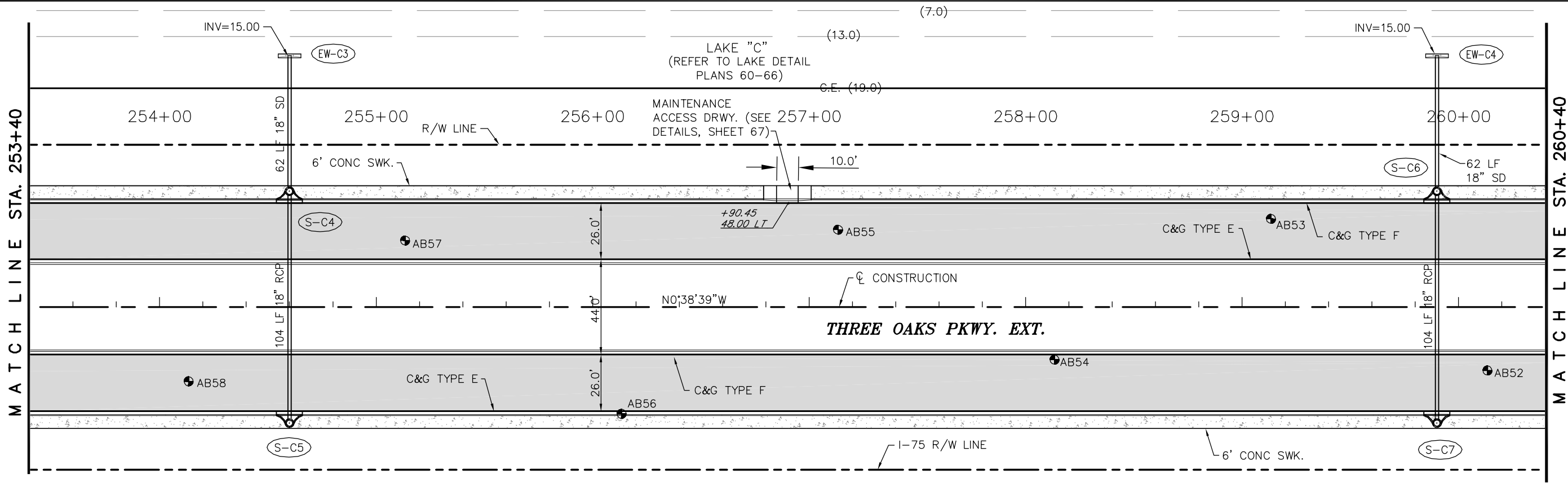
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY PLAN & PROFILE**  
STA 246+40 to 253+40

SHEET  
32 OF 121





P:\CAD\2008\08-372\Plan-Prof\_3-Oaks\_2.dwg, 33, 8/20/2009 9:10:20 AM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
 PROJ. MGR. Jack Schrager, PE  
 PROJ. DIR.  
 APPROVED:

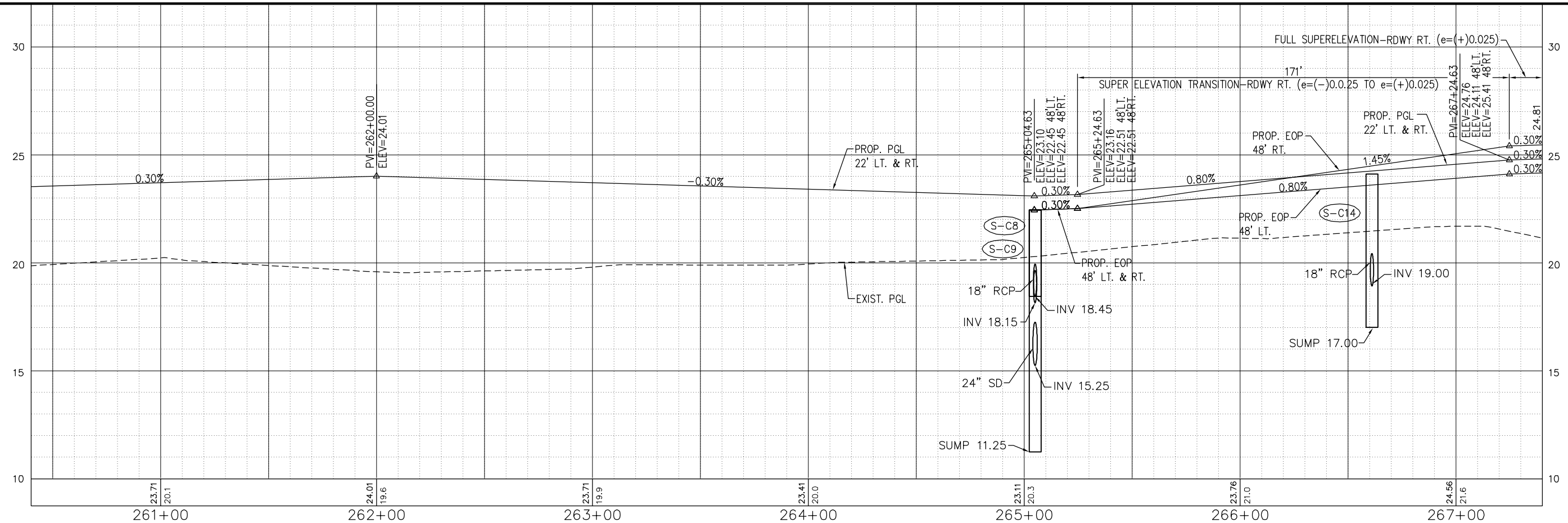
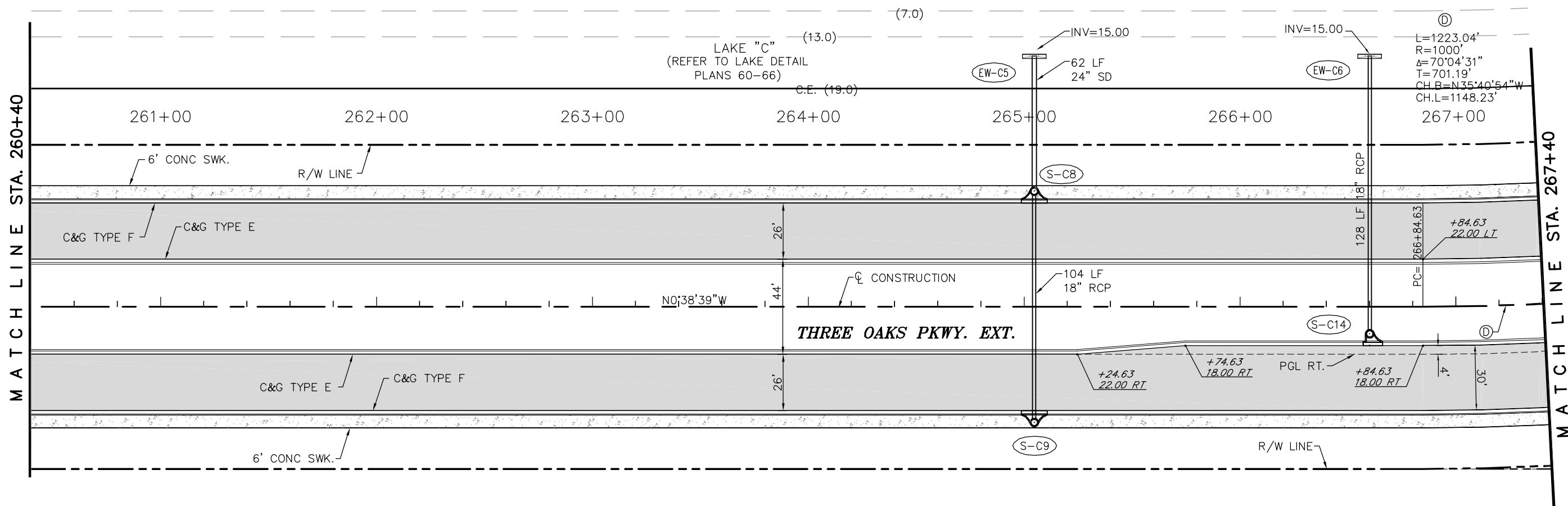
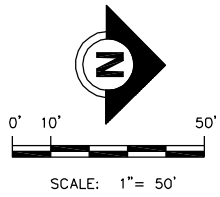
**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

LEE COUNTY DEPARTMENT  
 OF  
 TRANSPORTATION  
 (239) 533-8580

THREE OAKS PARKWAY EXTENSION  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**ROADWAY PLAN & PROFILE**  
 STA 253+40 to 260+40

SHEET  
**33 OF 121**



P:\CAD\2008\08-372\Plot\Plan-Prof\_3-Oaks\_3.dwg, 34, 8/20/2009 9:11:00 AM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

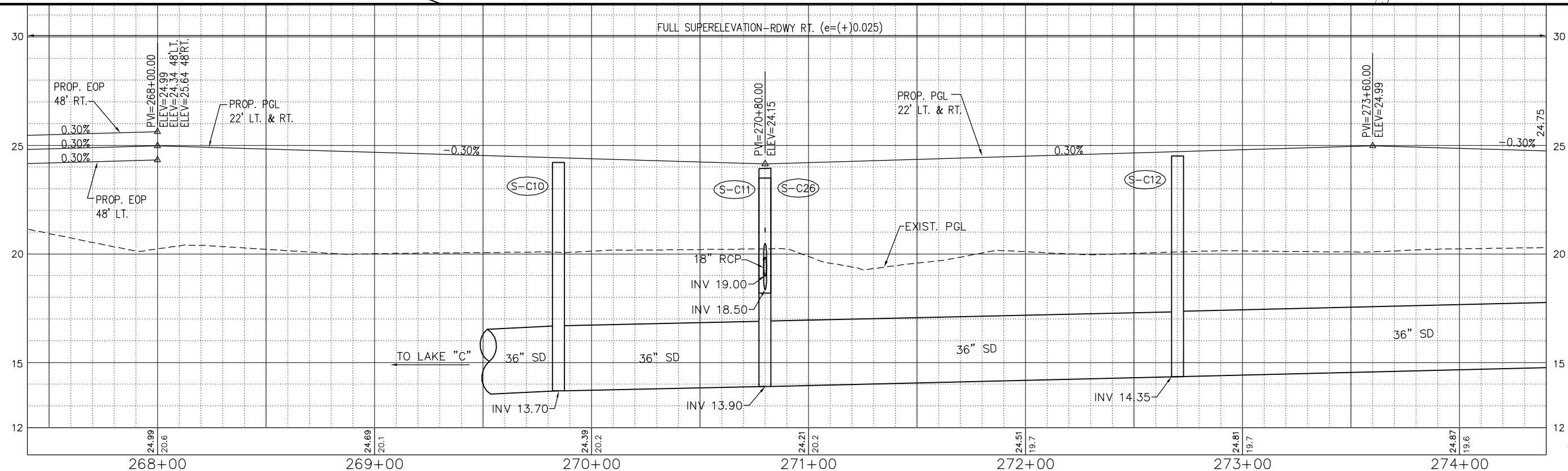
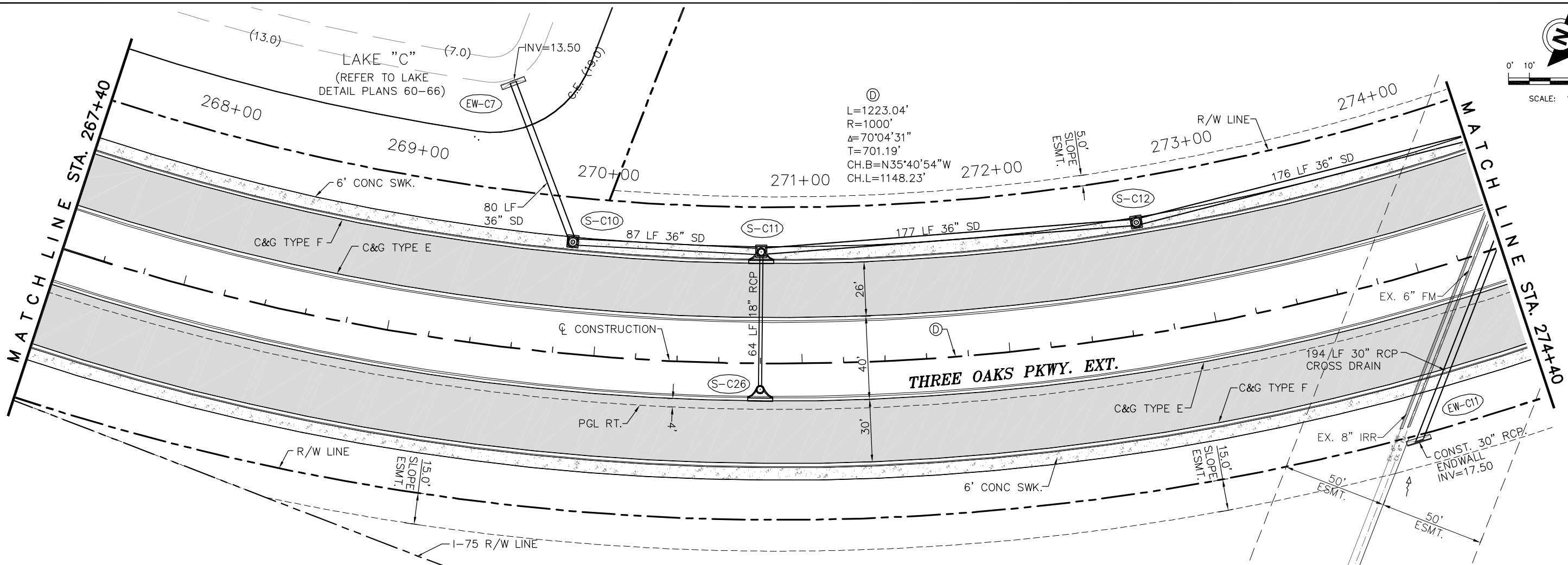
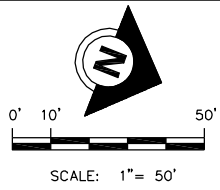
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY PLAN & PROFILE**  
STA 260+40 to 267+40

SHEET  
**34 OF 121**

1" = 50' HORIZ.  
1" = 5' VERT.



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DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

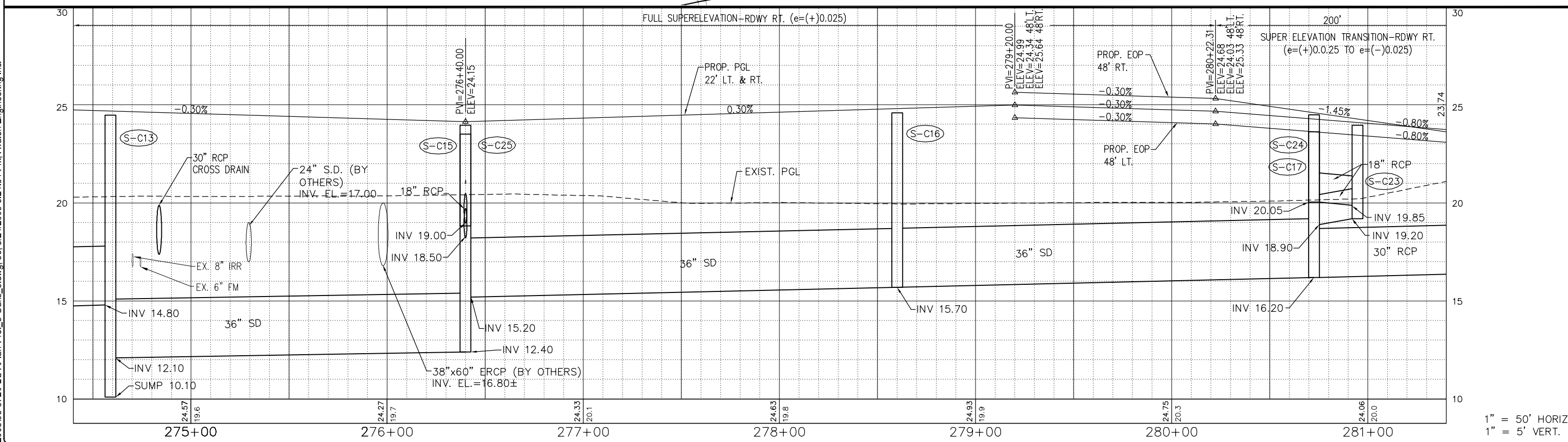
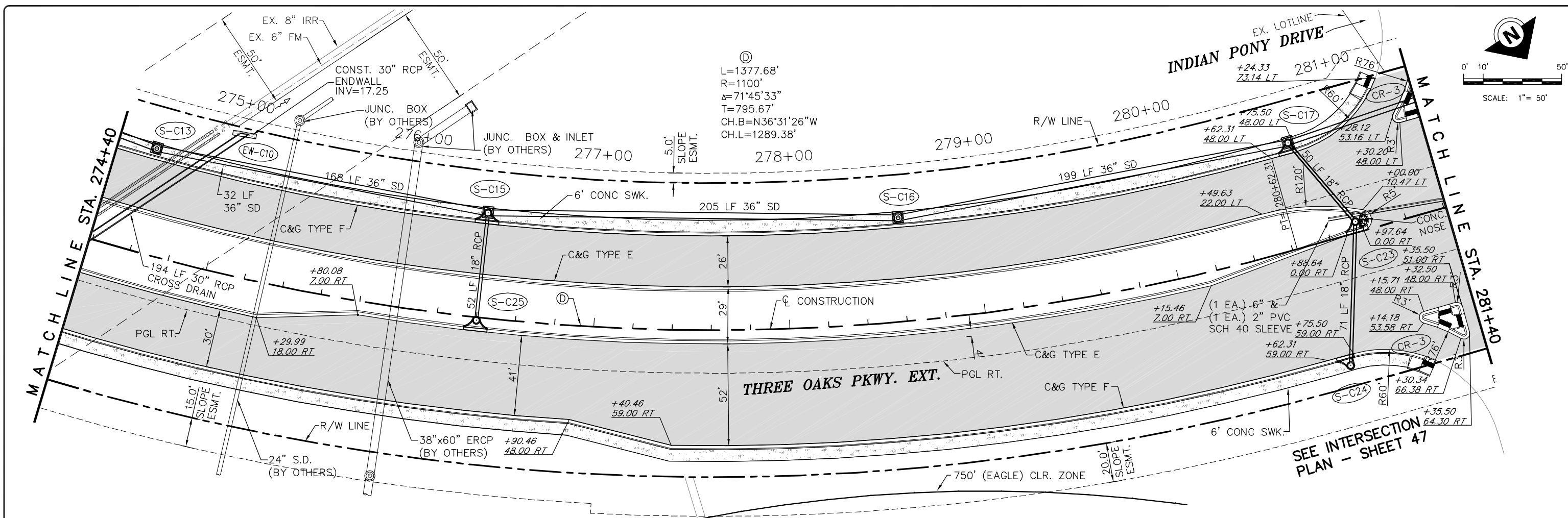
**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY PLAN & PROFILE**  
STA 267+40 to 274+40

SHEET  
**35 OF 121**



P:\CAD\2008\08-372\Plan-Prof\_3-Oaks\_3.dwg, 36, 8/24/2009 3:21:54 PM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

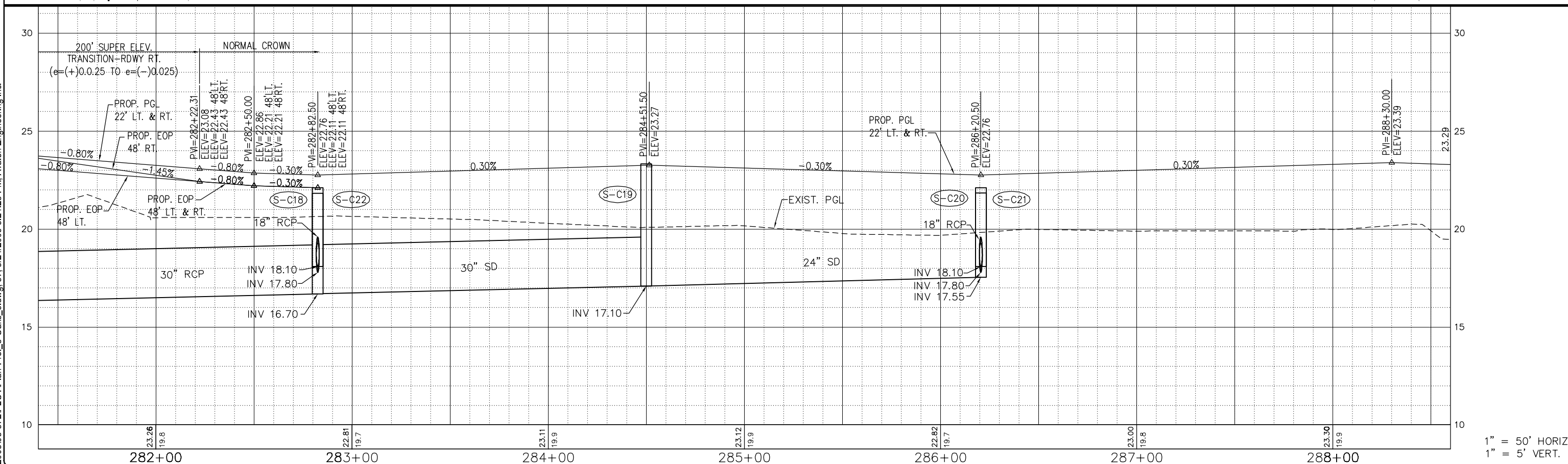
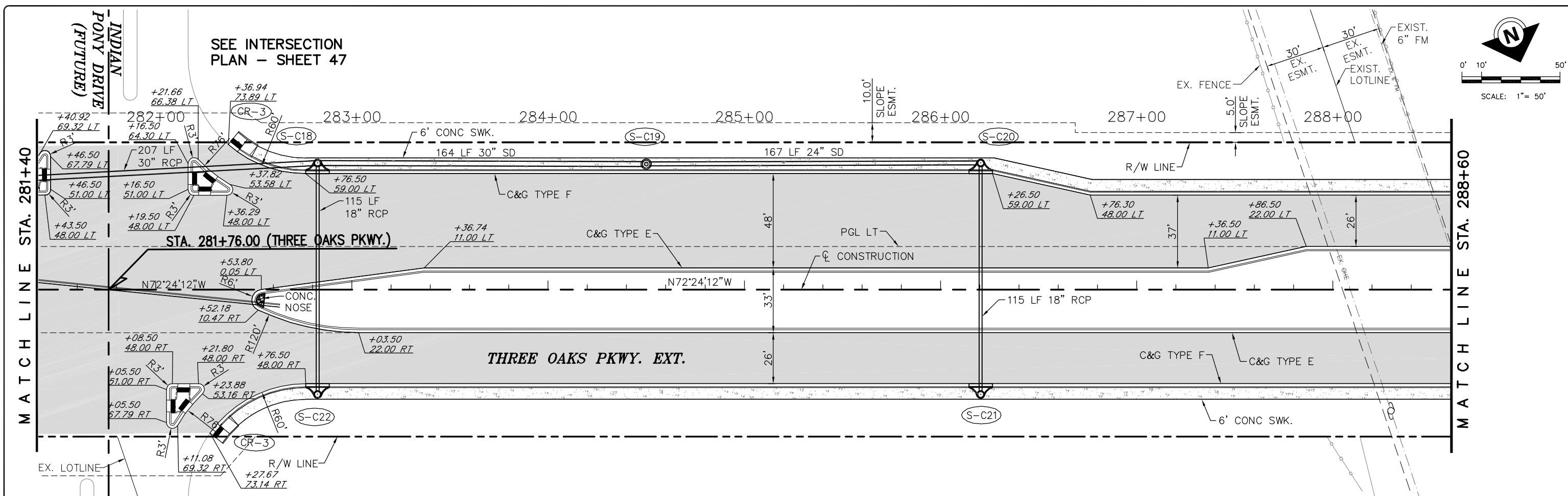
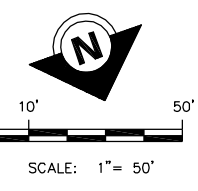
**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY PLAN & PROFILE**  
STA 274+40 to 281+40

SHEET  
36 OF 121



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DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

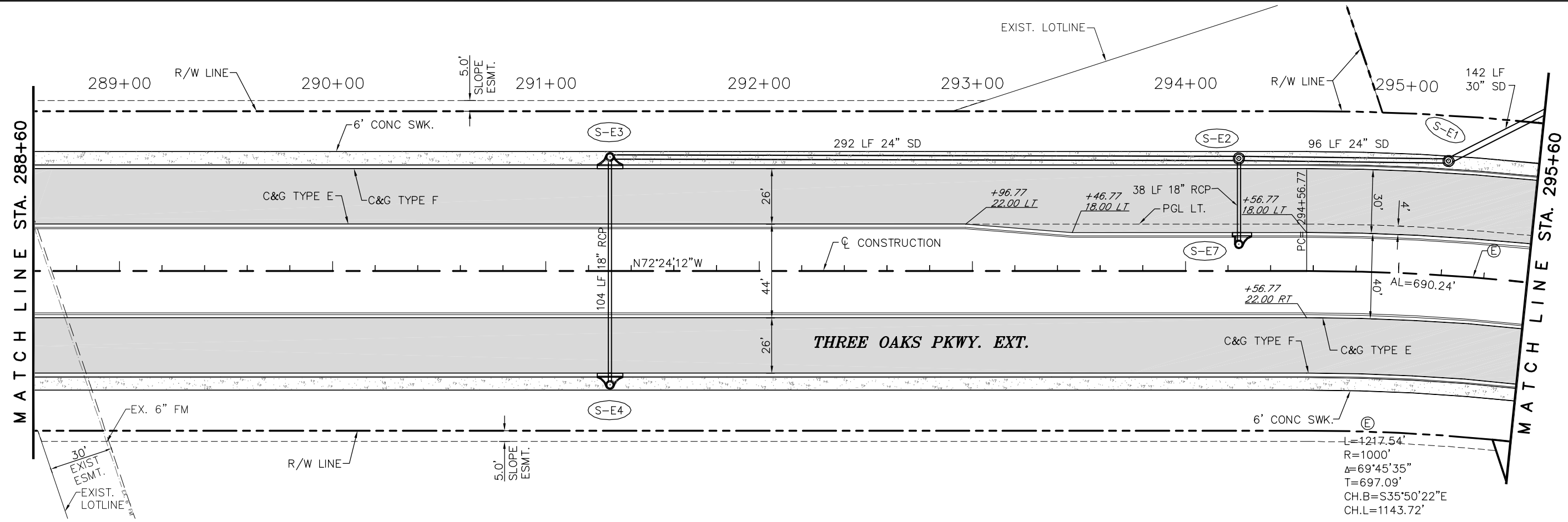
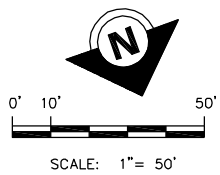
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

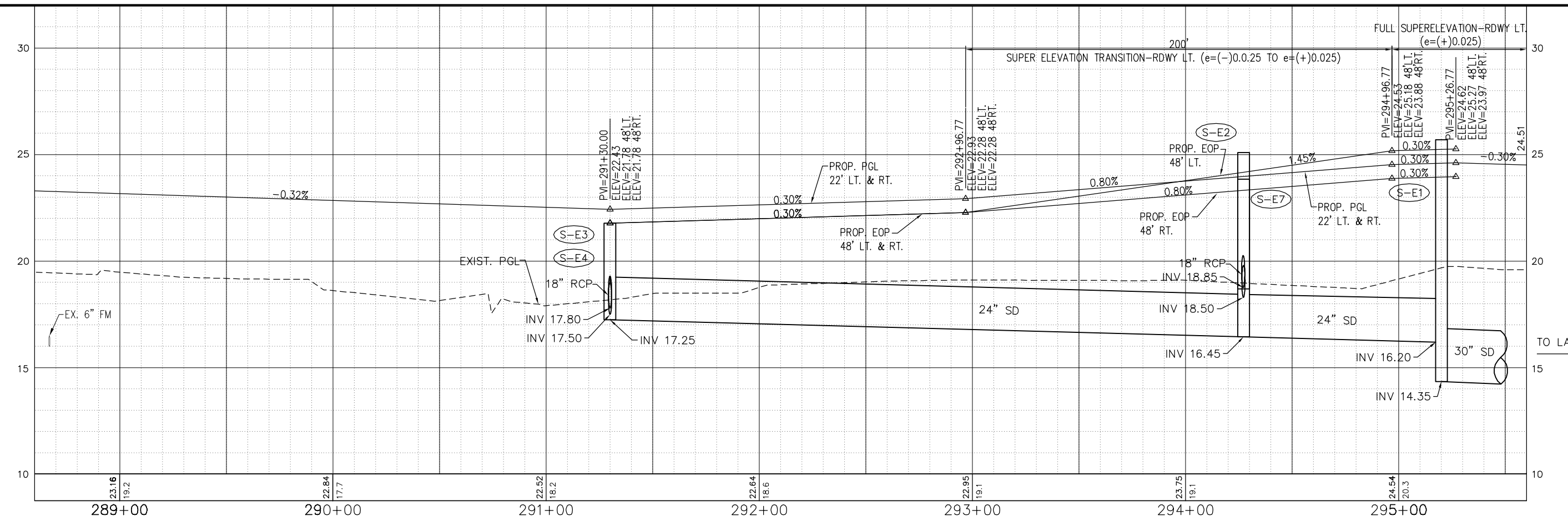
**ROADWAY PLAN & PROFILE**  
STA 281+40 to 288+60

SHEET  
**37 OF 121**

1" = 50' HORIZ.  
1" = 5' VERT.



$L=1217.54'$   
 $R=1000'$   
 $\Delta=69^{\circ}45'35''$   
 $T=697.09'$   
 $CH.B=S35^{\circ}50'22''E$   
 $CH.L=1143.72'$



1" = 50' HORIZ.  
 1" = 5' VERT.

P:\CAD\2008\08-372\Plan-Prof\_3-Oaks\_3.dwg, 38, 8/20/2009 9:12:00 AM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
 (AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
 PROJ. MGR. Jack Schrager, PE  
 PROJ. DIR.  
 APPROVED:

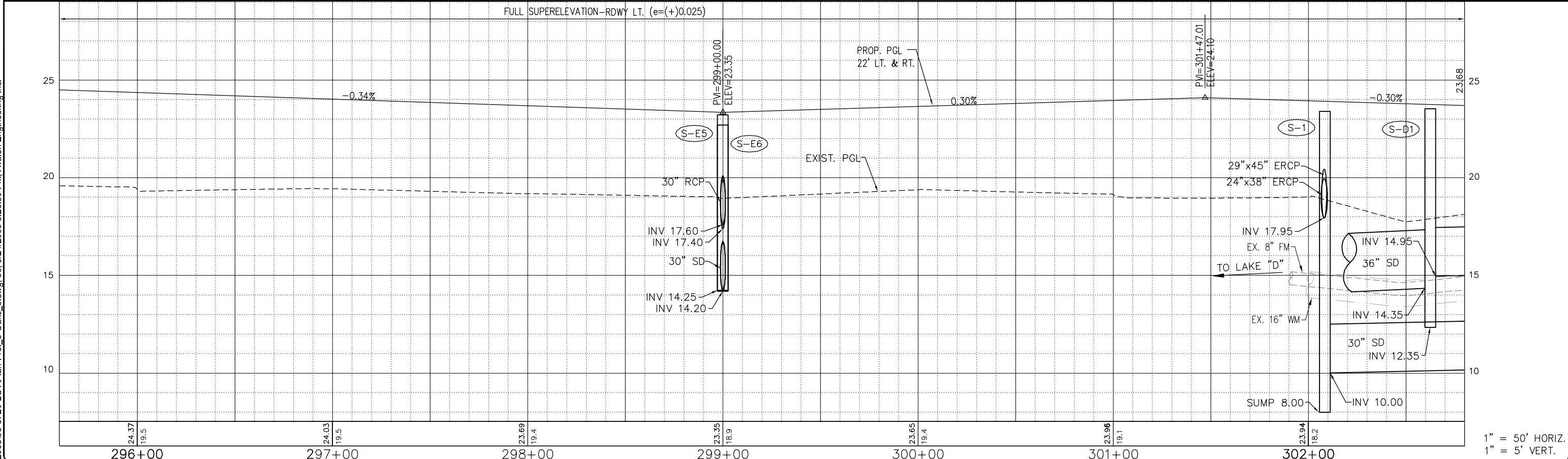
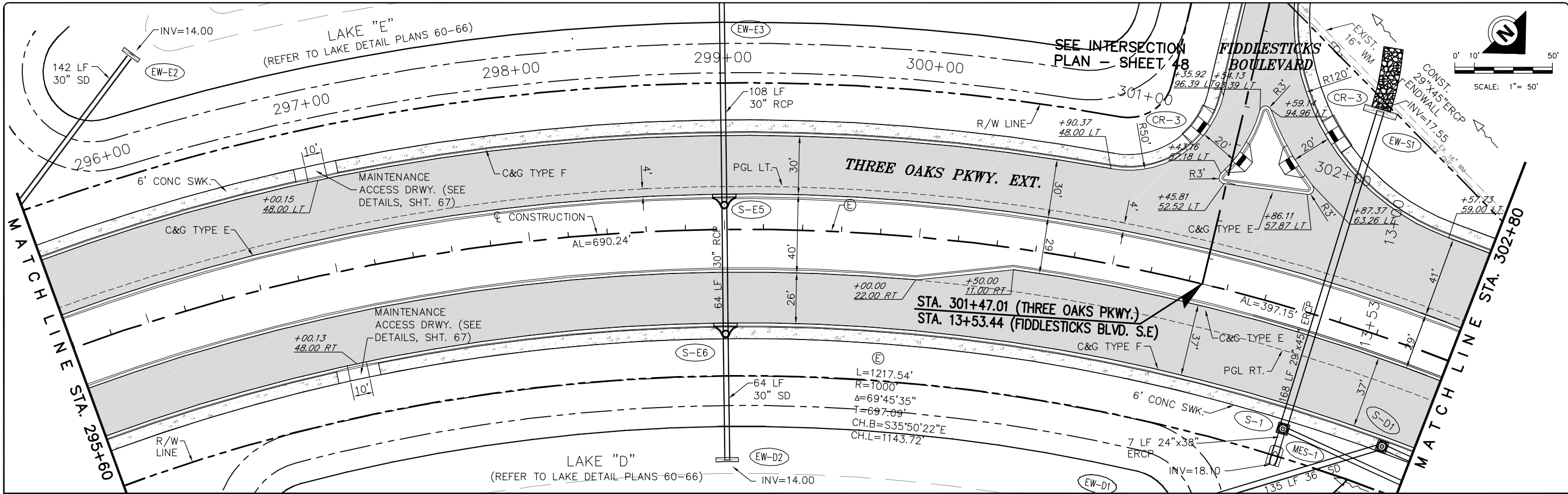
**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**ROADWAY PLAN & PROFILE**  
 STA 288+60 to 295+60

SHEET  
**38 OF 121**



P:\CAD\2008\08-372\Plan-Prof\_3-Oaks\_3.dwg, 39, 8/24/2009 3:26:50 PM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
 PROJ. MGR. Jack Schrager, PE  
 PROJ. DIR.  
 APPROVED:

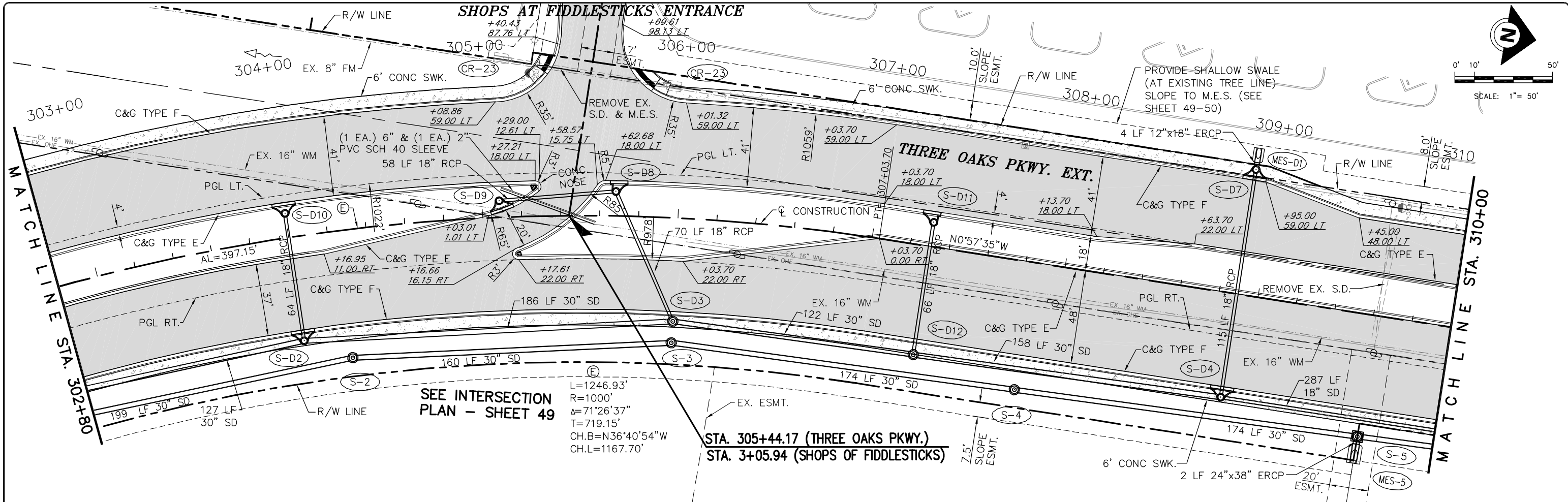
**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**ROADWAY PLAN & PROFILE**  
 STA 295+60 to 302+80

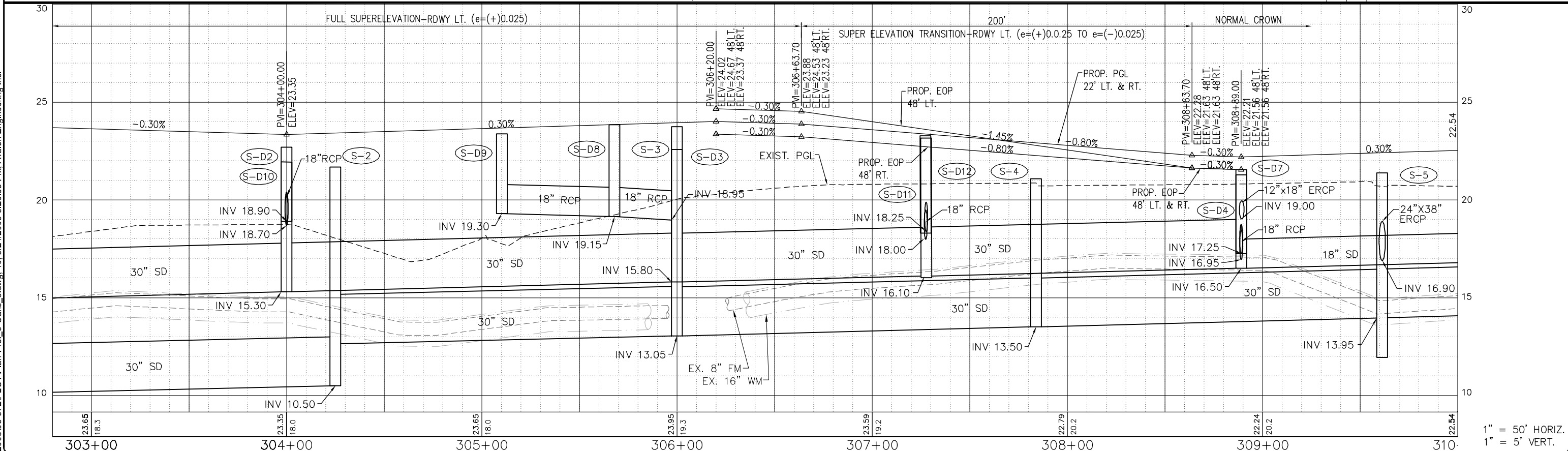
SHEET  
**39 OF 121**



SEE INTERSECTION  
PLAN - SHEET 49

L=1246.93'  
R=1000'  
Δ=71°26'37"  
T=719.15'  
CH.B=N36°40'54"W  
CH.L=1167.70'

STA. 305+44.17 (THREE OAKS PKWY.)  
STA. 3+05.94 (SHOPS OF FIDDLESTICKS)



1" = 50' HORIZ.  
1" = 5' VERT.

P:\CAD\2008\08-372\Plan-Prof\_3-Oaks\_3.dwg, 40, 8/24/2009 3:26:58 PM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schragger, PE  
PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

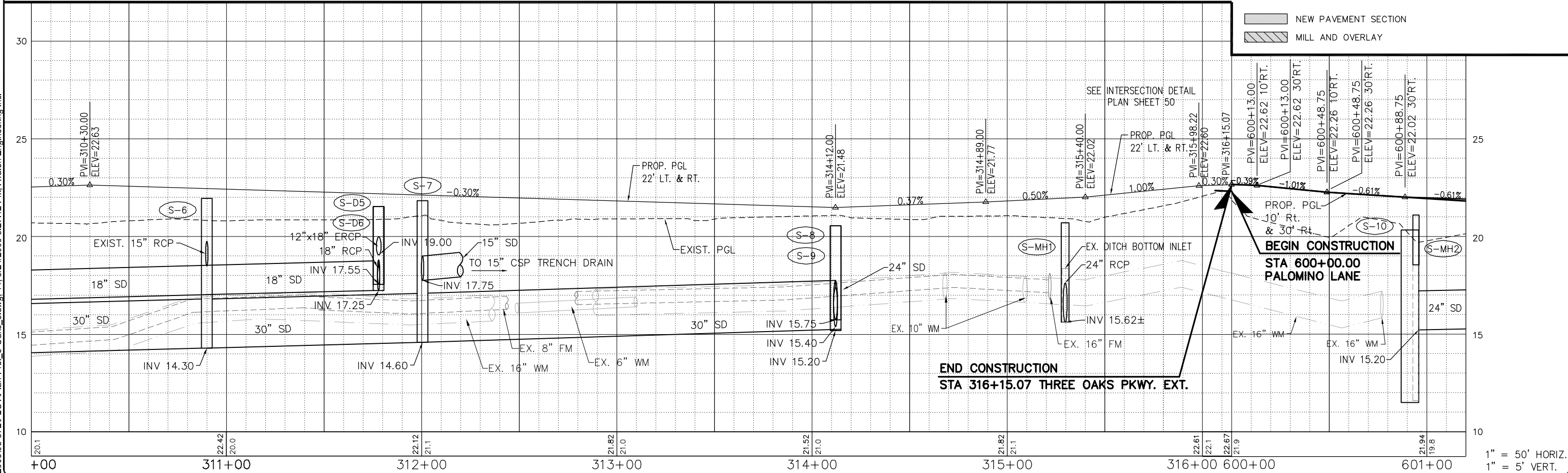
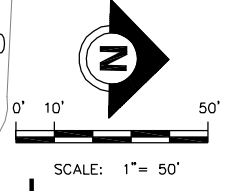
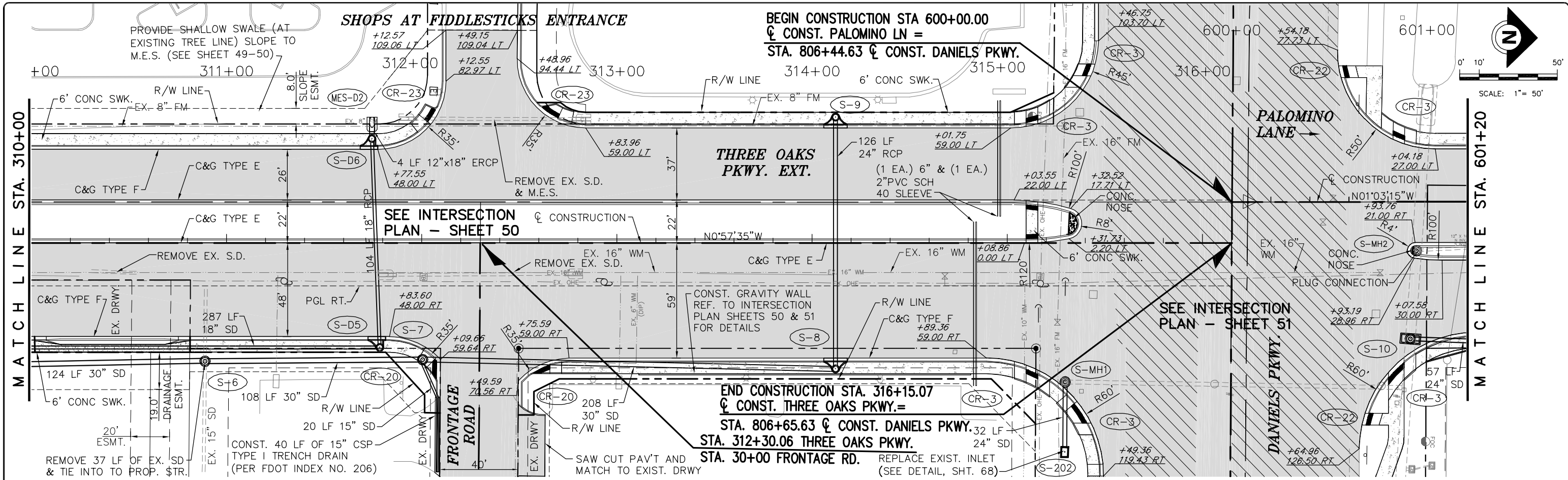
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY PLAN & PROFILE**  
STA 302+80 to 310+00

SHEET  
**40 OF 121**





NEW PAVEMENT SECTION  
 MILL AND OVERLAY

P:\CAD\2008\08-372\Plan-Prof\_3-Oaks\_3.dwg, 41, 8/24/2009 3:27:12 PM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
 PROJ. MGR. Jack Schrager, PE  
 PROJ. DIR.  
 APPROVED:

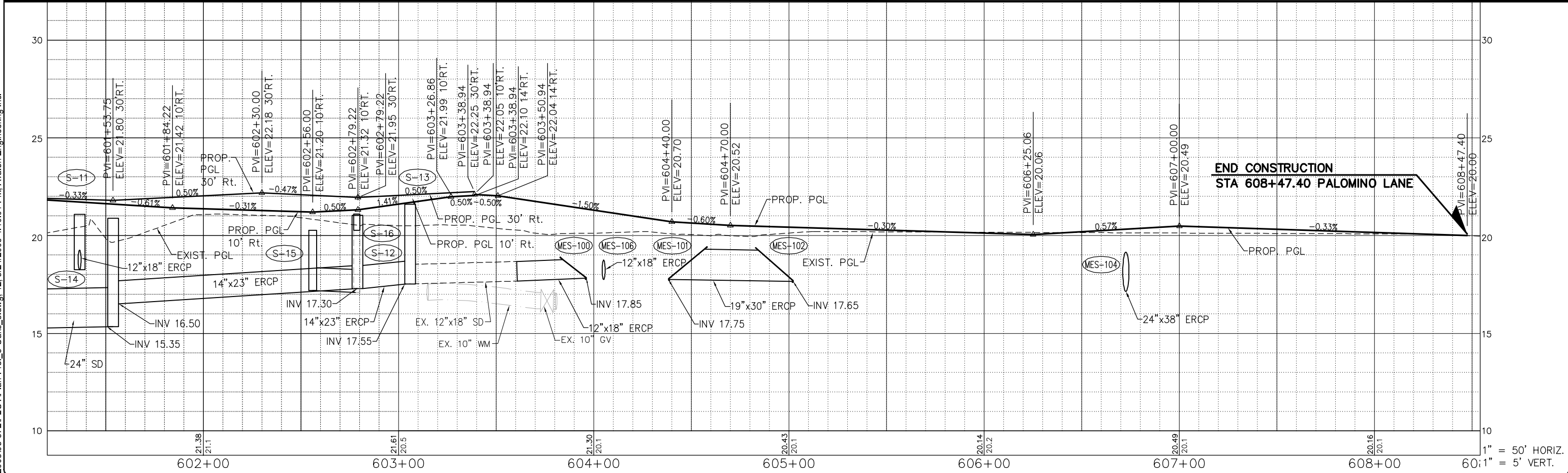
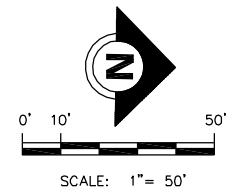
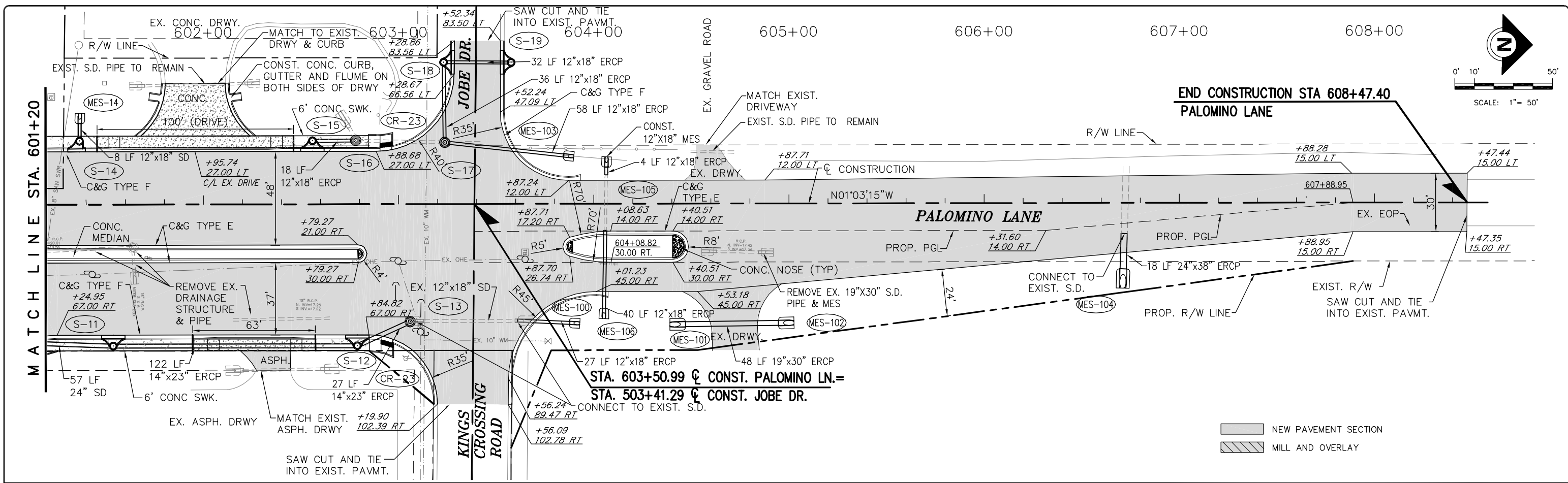
**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**ROADWAY PLAN & PROFILE**  
 STA 310 to 316 & STA 600 to 601

SHEET  
**41 OF 121**



P:\CAD\2008\08-372\Plan-Prof\_3-Oaks\_3.dwg\_42\_8/24/2009 4:40:01 PM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

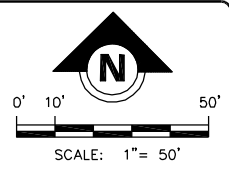
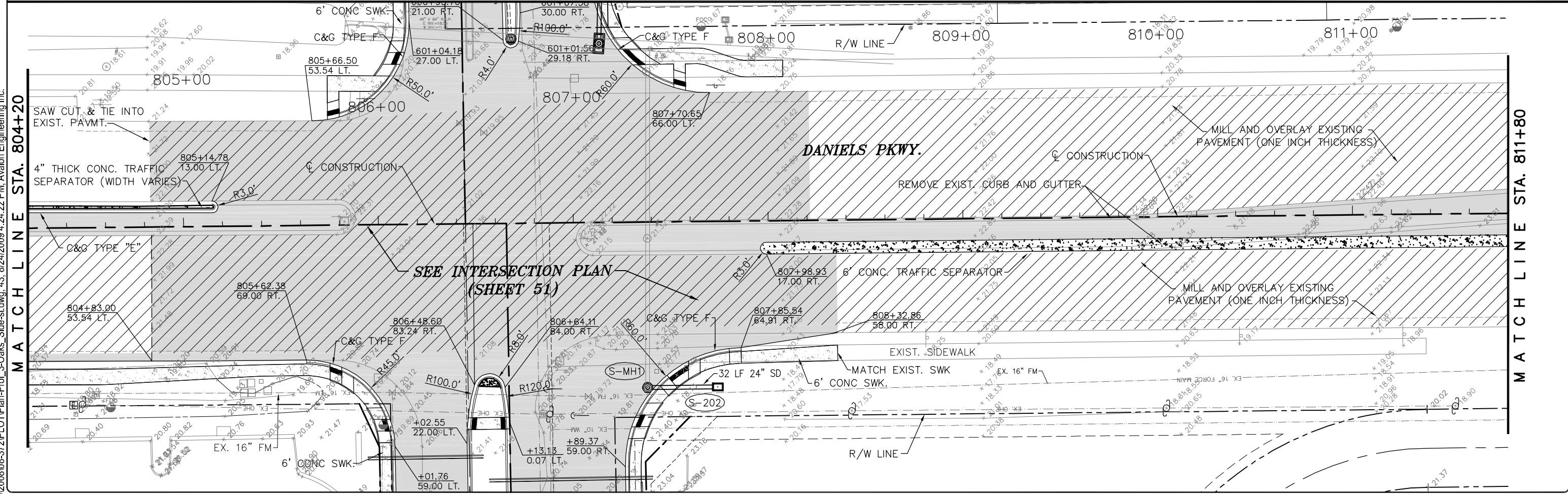
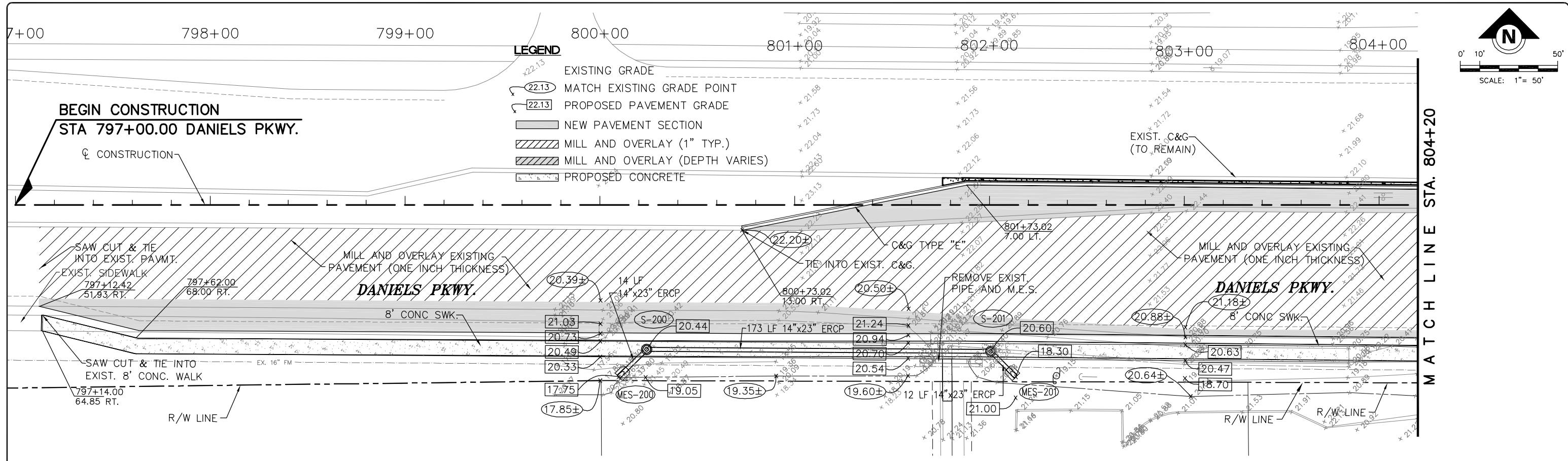
**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY PLAN & PROFILE**  
**STA 601+20 to 608+47**

SHEET  
**42 OF 121**



P:\CAD\2008-372\Plan-Prof\_3-Oaks\_Side-st.dwg, 43, 8/24/2009 4:24:22 PM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

PROJ. 08-372 DATE:  
 PROJ. MGR. Jack Schrager, PE  
 PROJ. DIR.  
 APPROVED:

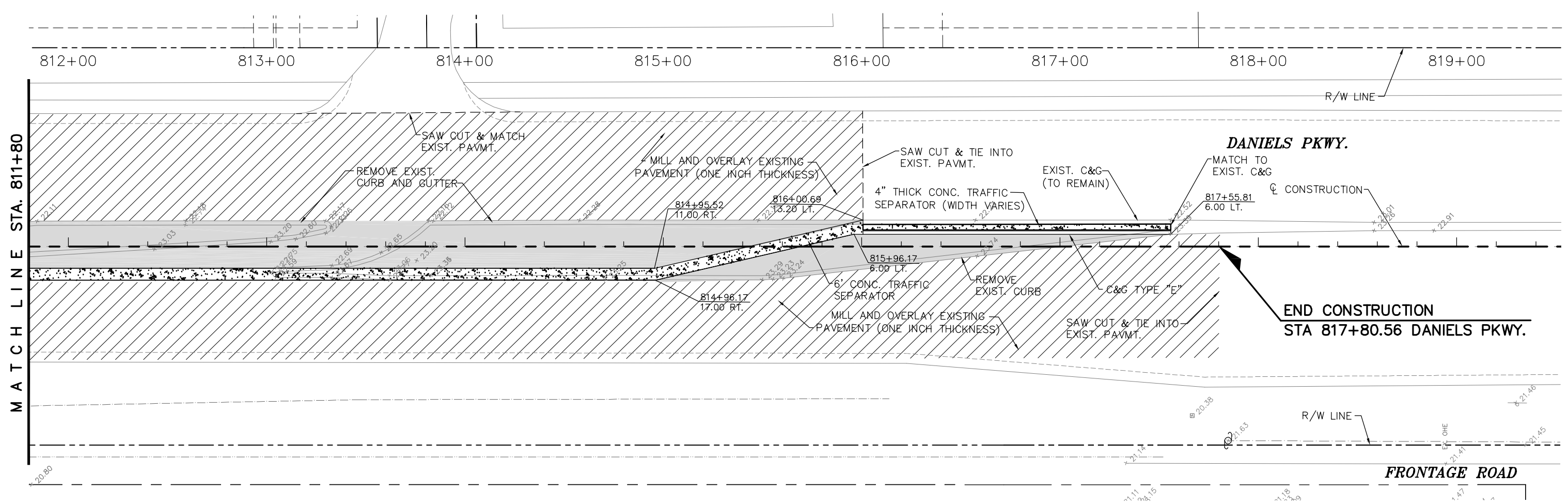
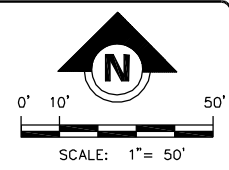
**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**ROADWAY IMPROVEMENTS**  
**DANIELS STA 797+00 to 811+80**

SHEET  
43 OF 121



**LEGEND**

	EXISTING GRADE
	MATCH EXISTING GRADE POINT
	PROPOSED PAVEMENT GRADE
	NEW PAVEMENT SECTION
	MILL AND OVERLAY (1" TYP.)
	MILL AND OVERLAY (DEPTH VARIES)
	PROPOSED CONCRETE

P:\CAD\2008\08-372\Plan-Prof\_3-Oaks\_Side-st.dwg, 44, 8/20/2009 9:15:17 AM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE: \_\_\_\_\_  
 PROJ. MGR. Jack Schrager, PE  
 PROJ. DIR. \_\_\_\_\_  
 APPROVED: \_\_\_\_\_

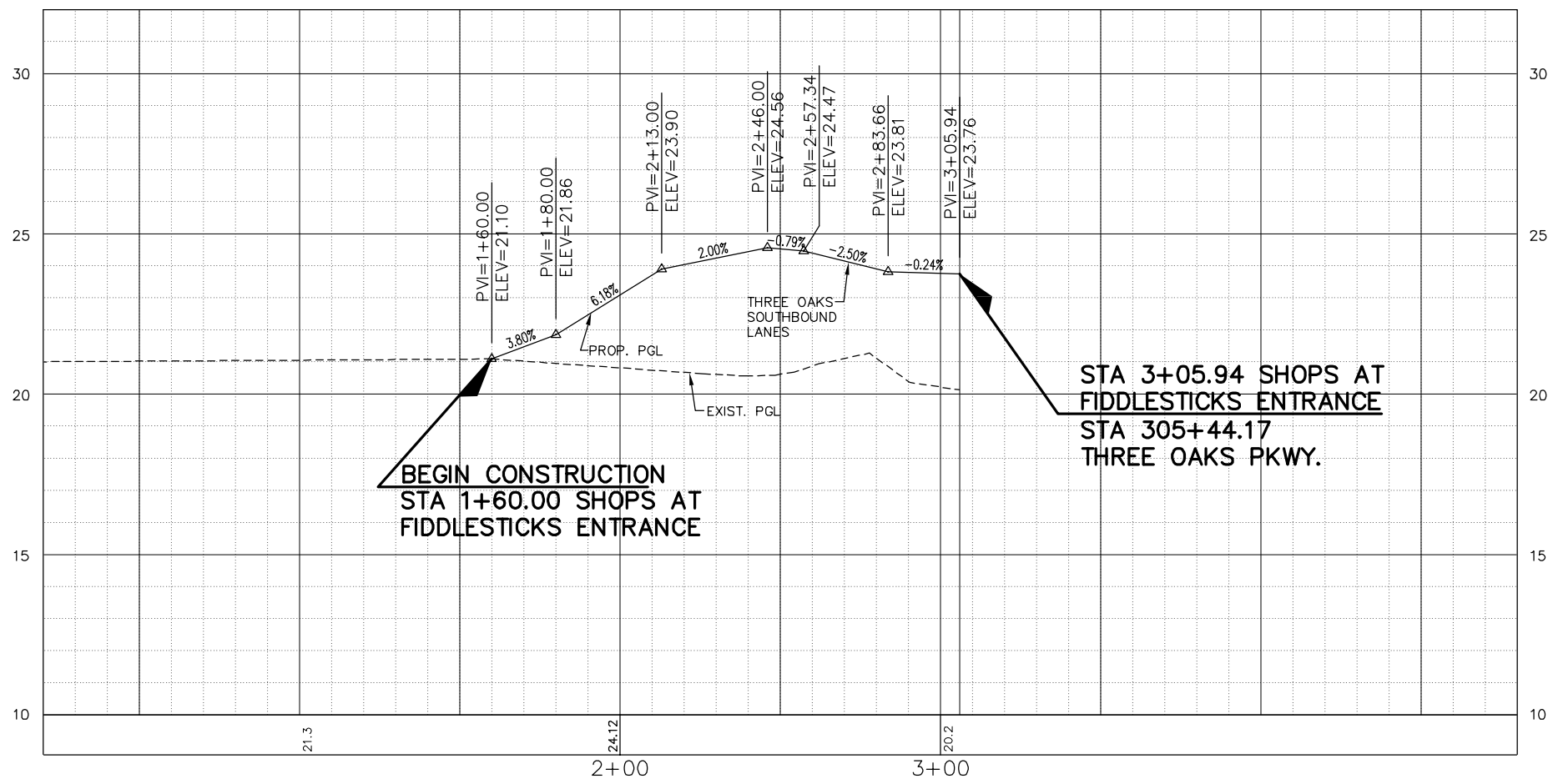
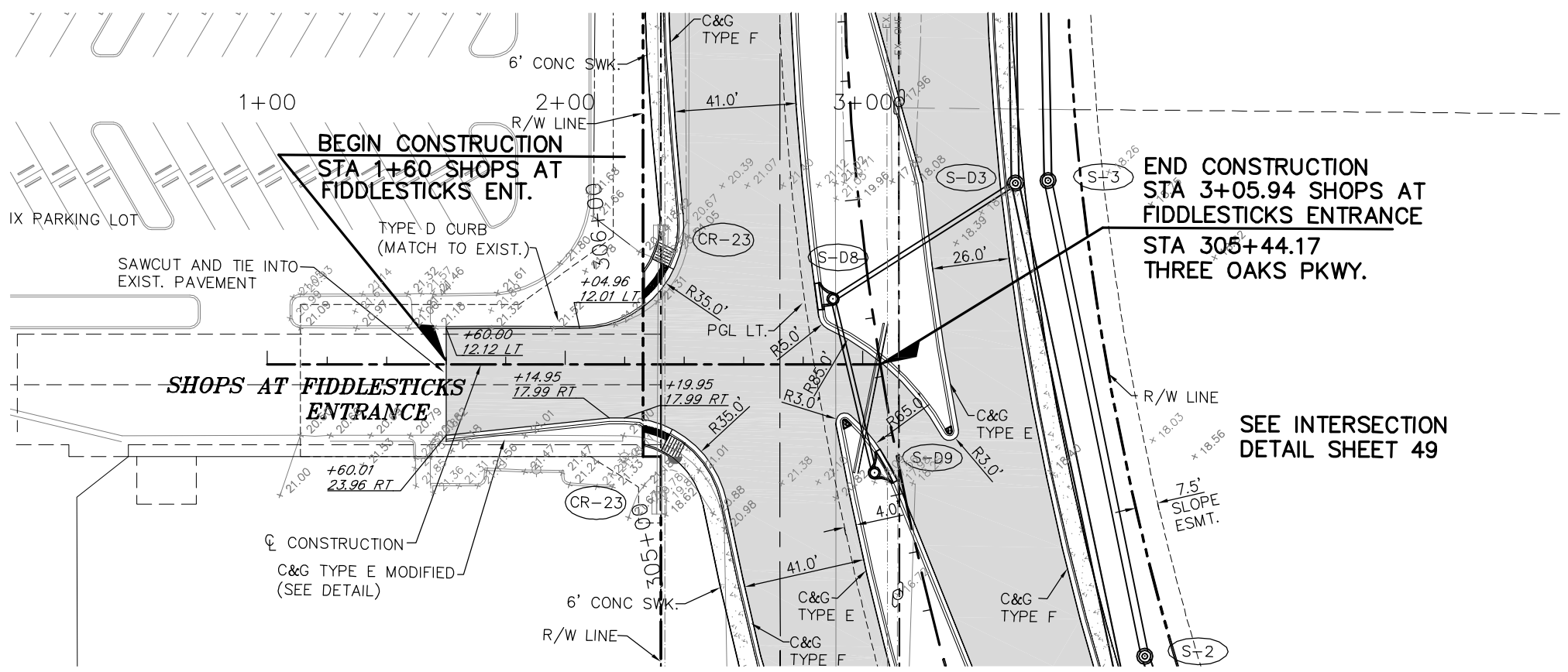
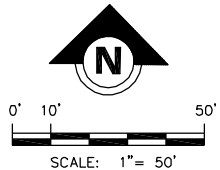
**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**ROADWAY IMPROVEMENTS**  
**DANIELS STA 811+80 to 817+80**

SHEET  
44 OF 121



P:\CAD\2008\08-372\Plan-Prof\_3-Oaks\_Side-st.dwg, 45, 8/20/2009 9:15:52 AM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schragger, PE  
PROJ. DIR.  
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CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

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(239) 533-8580

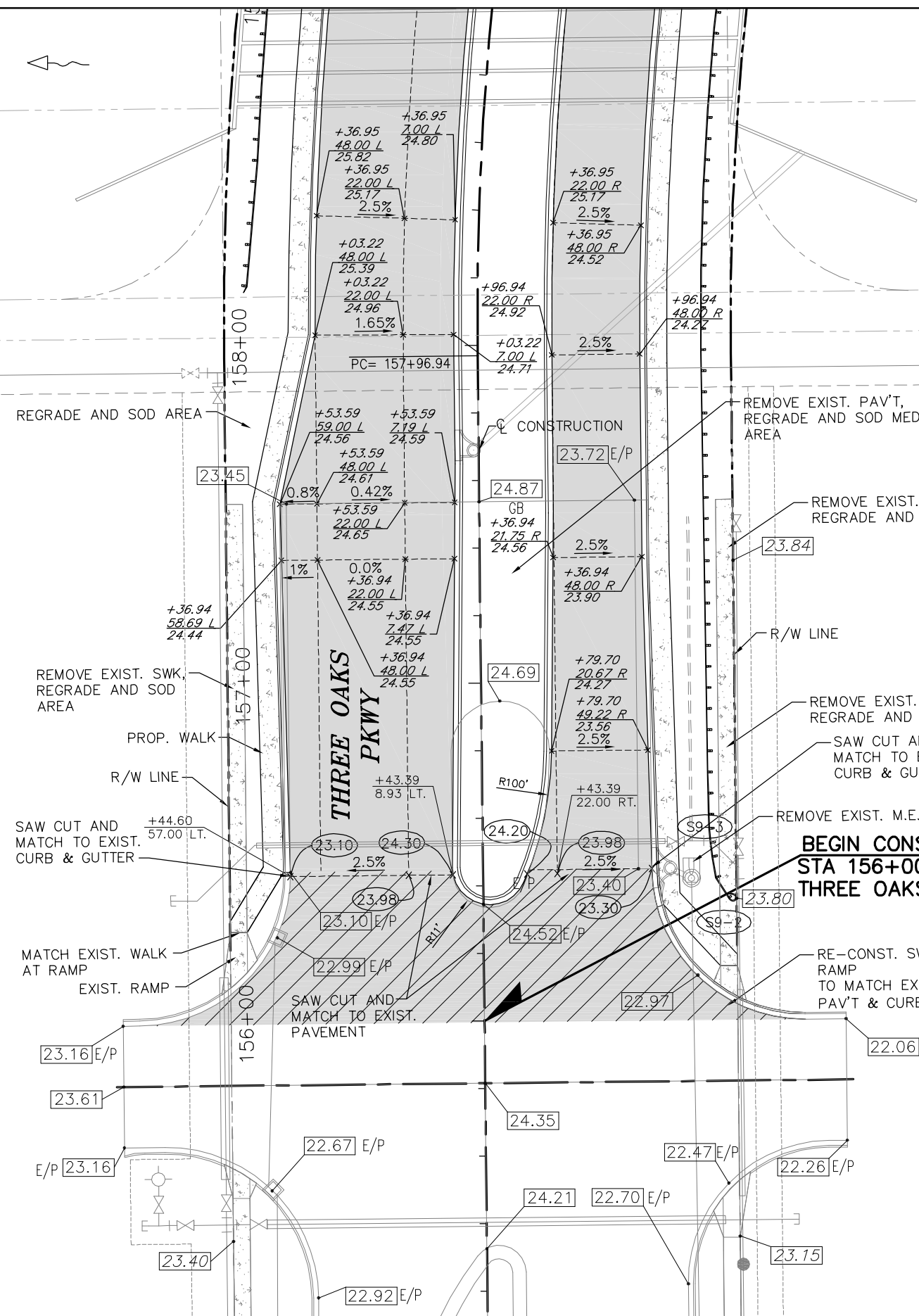
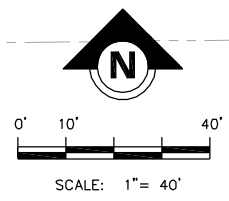
**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**SIDE STREET PLAN & PROFILE**  
**SHOPS AT FIDDLESTICKS ENTRANCE**

SHEET  
**45 OF 121**

1" = 50' HORIZ.  
1" = 5' VERT.

AIRPORT CONVEYANCE DITCH



- LEGEND**
- EXISTING GRADE
  - MATCH EXISTING GRADE POINT
  - PROPOSED PAVEMENT GRADE (W/STATION & OFFSET)
  - NEW PAVEMENT SECTION
  - MILL AND OVERLAY (1" TYP.)
  - MILL AND OVERLAY (DEPTH VARIES)
  - PROPOSED CONCRETE
  - EXISTING PAVEMENT GRADES

P:\CAD\2008\08-372\INTERSECT\_3-Oaks.dwg, 46, 8/24/2009 4:08:12 PM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

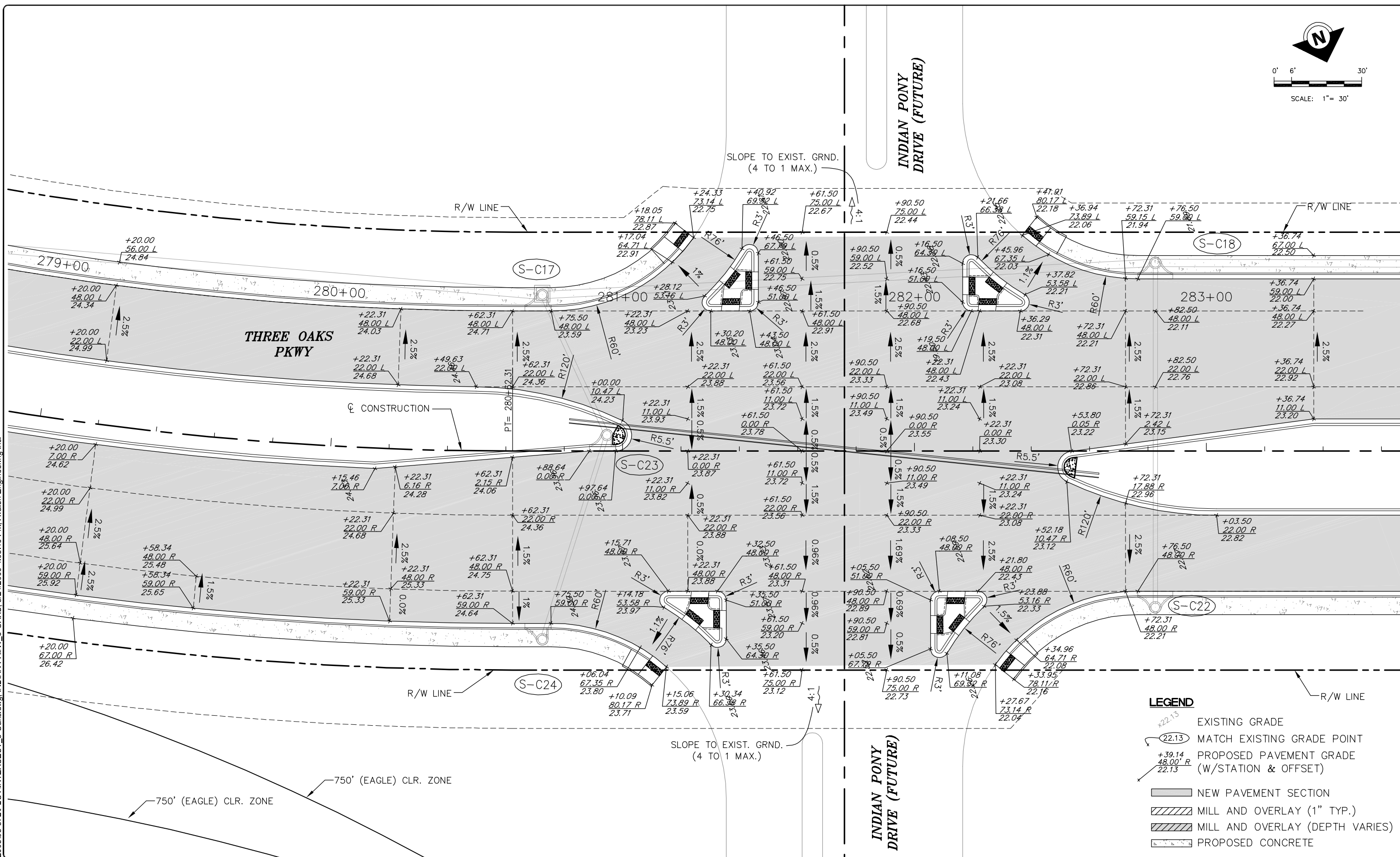
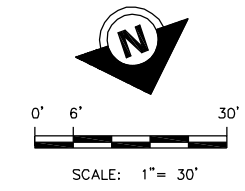
**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

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(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**INTERSECTION DETAIL**  
BEGIN STA. 156+50

SHEET  
46 OF 121



**LEGEND**

- EXISTING GRADE
- MATCH EXISTING GRADE POINT
- PROPOSED PAVEMENT GRADE (W/STATION & OFFSET)
- NEW PAVEMENT SECTION
- MILL AND OVERLAY (1" TYP.)
- MILL AND OVERLAY (DEPTH VARIES)
- PROPOSED CONCRETE

P:\CAD\2008\08-372PLOT\INTERSECT\_3-Oaks.dwg, INDIAN PONY, 8/24/2009 4:08:19 PM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
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PROJ. DIR.  
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2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**INTERSECTION DETAIL**  
**INDIAN PONY DRIVE (FUTURE)**

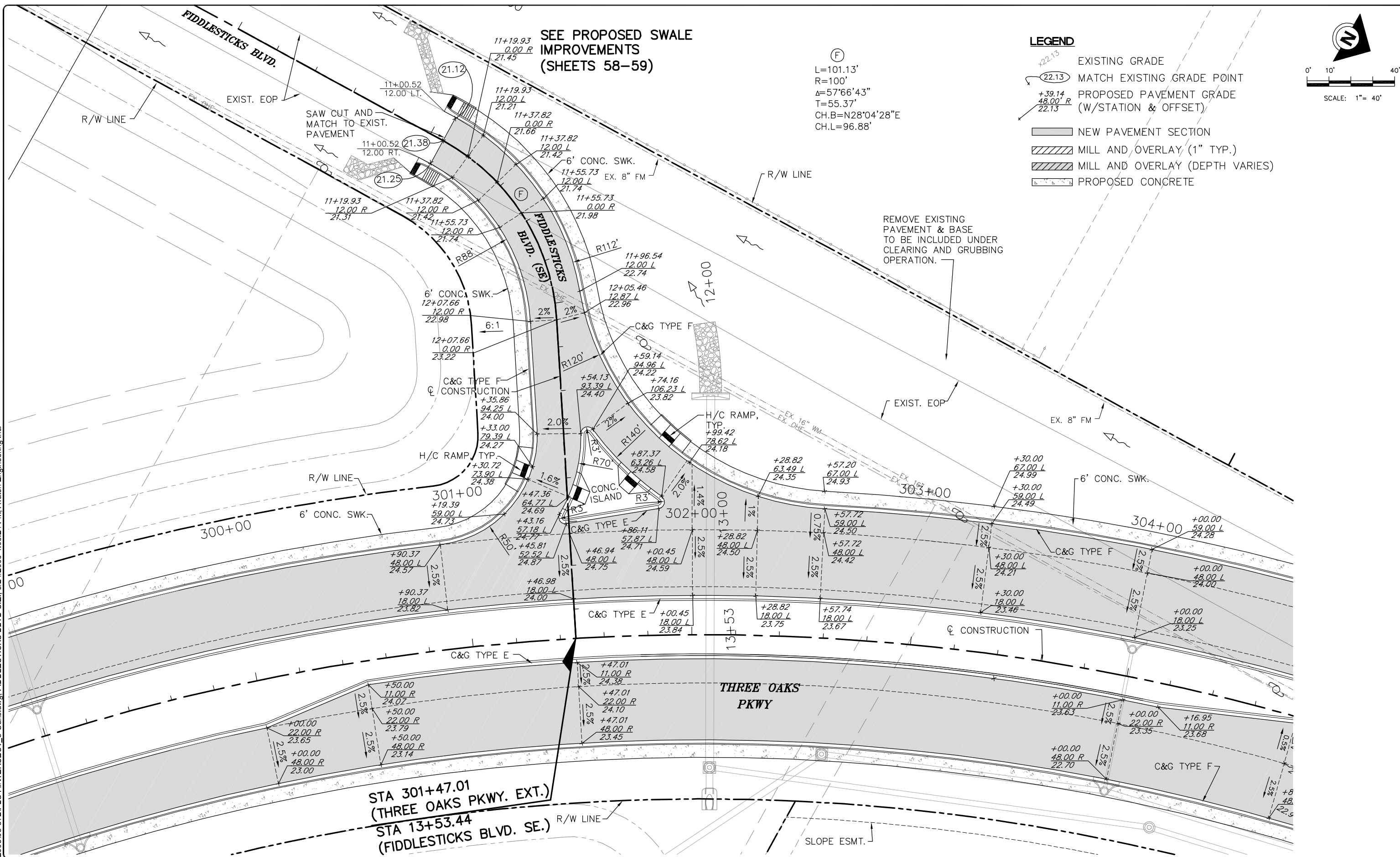
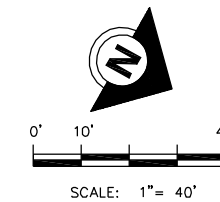
SHEET  
**47 OF 121**

SEE PROPOSED SWALE IMPROVEMENTS (SHEETS 58-59)

(F)  
L=101.13'  
R=100'  
Δ=57°66'43"  
T=55.37'  
CH.B=N28°04'28"E  
CH.L=96.88'

LEGEND

- EXISTING GRADE
- (22.13) MATCH EXISTING GRADE POINT
- +39.14  
48.00' R  
22.13 PROPOSED PAVEMENT GRADE (W/STATION & OFFSET)
- NEW PAVEMENT SECTION
- MILL AND OVERLAY (1" TYP.)
- MILL AND OVERLAY (DEPTH VARIES)
- PROPOSED CONCRETE



P:\CAD\2008\08-3721\INTERSECT\_3-Oaks.dwg, FIDDLESTICKS BLVD S.E., 8/24/2009 4:08:24 PM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
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**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

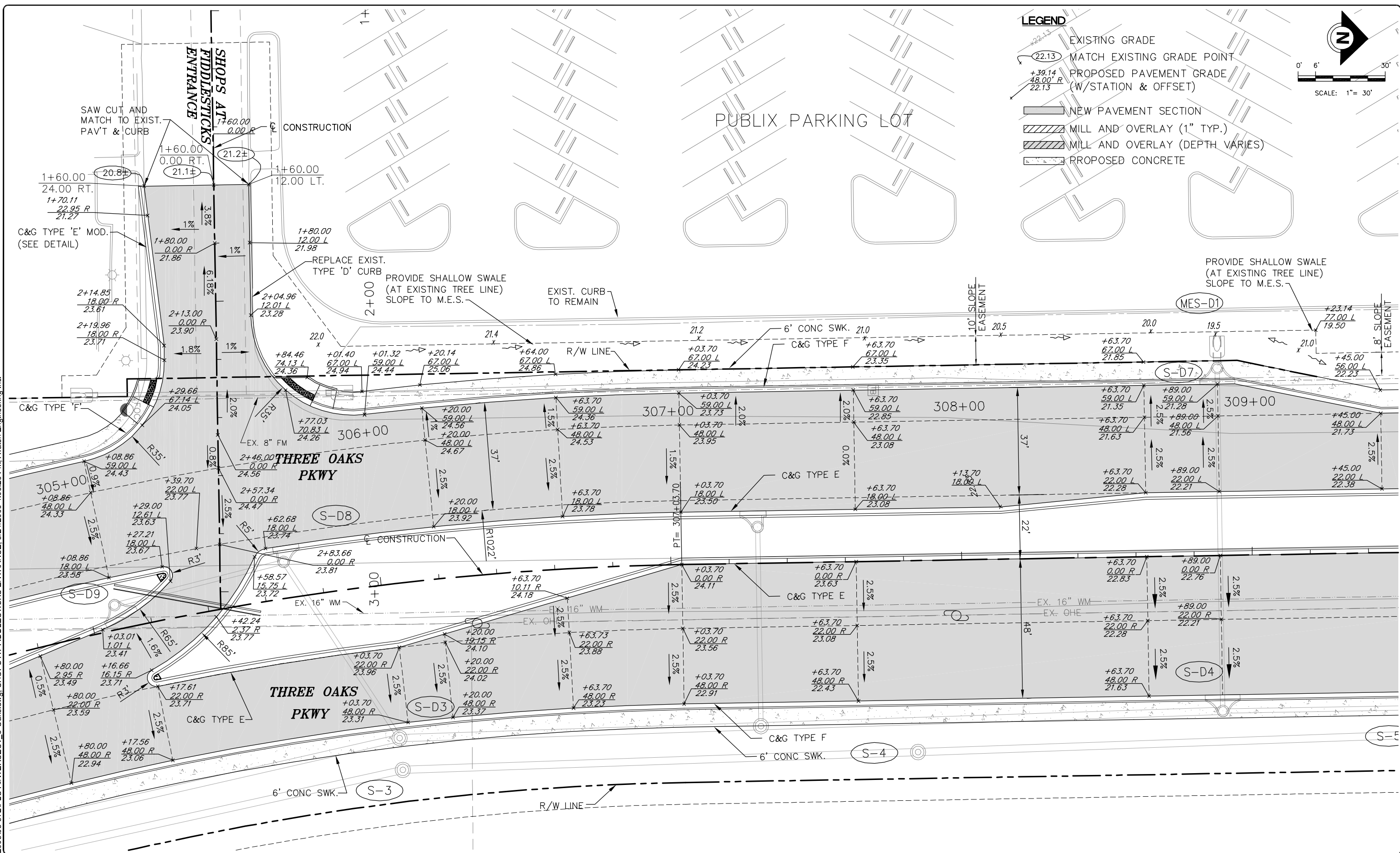
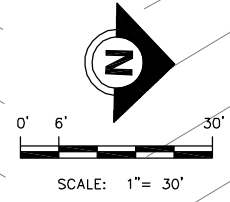
**INTERSECTION DETAIL**  
**FIDDLESTICKS BLVD S.E.**

SHEET  
**48 OF 121**



**LEGEND**

- EXISTING GRADE
- 22.13 MATCH EXISTING GRADE POINT
- +39.14  
48.00' R  
22.13 PROPOSED PAVEMENT GRADE (W/STATION & OFFSET)
- NEW PAVEMENT SECTION
- MILL AND OVERLAY (1" TYP.)
- MILL AND OVERLAY (DEPTH VARIES)
- PROPOSED CONCRETE



P:\CAD\2008\08-372\PILOT\INTERSECT\_3-Oaks.dwg, SHOPS AT FIDDLESTICKS ENTRANCE, 8/24/2009 4:08:29 PM, Avalon Engineering, Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schragger, PE  
PROJ. DIR.  
APPROVED:

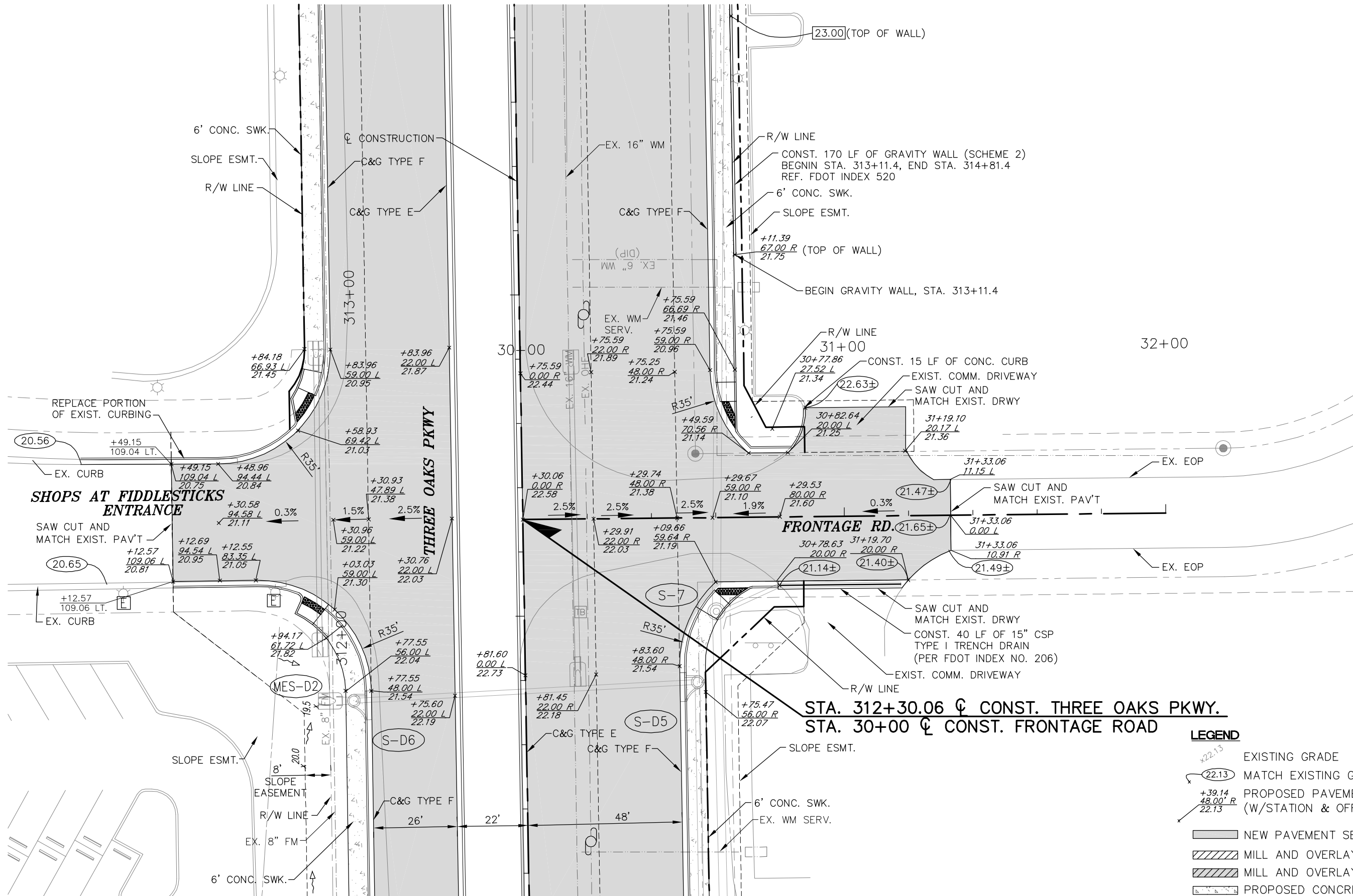
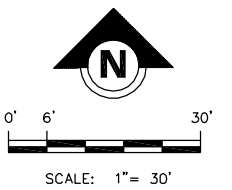
**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**INTERSECTION DETAIL**  
**SHOPS AT FIDDLESTICKS ENTRANCE**

SHEET  
**49 OF 121**



**LEGEND**

- EXISTING GRADE
- MATCH EXISTING GRADE POINT
- PROPOSED PAVEMENT GRADE (W/STATION & OFFSET)
- NEW PAVEMENT SECTION
- MILL AND OVERLAY (1" TYP.)
- MILL AND OVERLAY (DEPTH VARIES)
- PROPOSED CONCRETE

P:\CAD\2008\08-372\INTERSECT\_3-Oaks.dwg, FRONTAGE RD\_3-OAKS\_8/24/2009 4:08:34 PM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ.08-372 DATE:  
 PROJ. MGR. Jack Schrage, PE  
 PROJ. DIR.  
 APPROVED:

**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

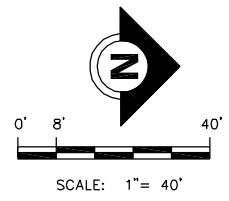
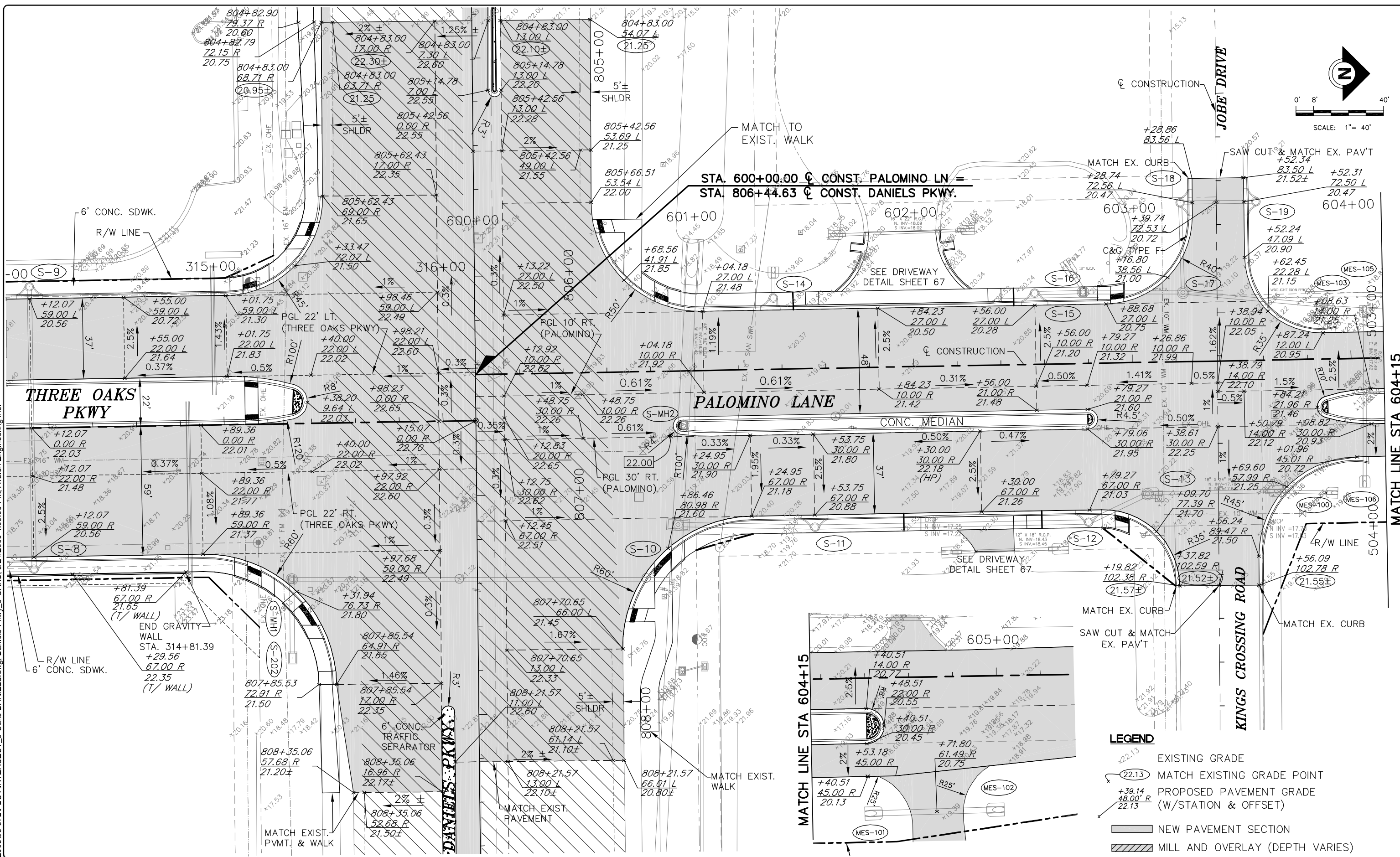
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**INTERSECTION DETAIL**  
**FRONTAGE ROAD**

SHEET  
**50 OF 121**

P:\CAD\2008\08-372\PILOT\INTERSECT\_3-Oaks-DANIELS.dwg, Daniels-Pkwy\_3-Oaks, 8/24/2009 4:09:06 PM, Avalon Engineering Inc.



- LEGEND**
- EXISTING GRADE
  - MATCH EXISTING GRADE POINT
  - PROPOSED PAVEMENT GRADE (W/STATION & OFFSET)
  - NEW PAVEMENT SECTION
  - MILL AND OVERLAY (DEPTH VARIES)

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE: \_\_\_\_\_  
 PROJ. MGR. Jack Schragger, PE  
 PROJ. DIR. \_\_\_\_\_  
 APPROVED: \_\_\_\_\_

**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

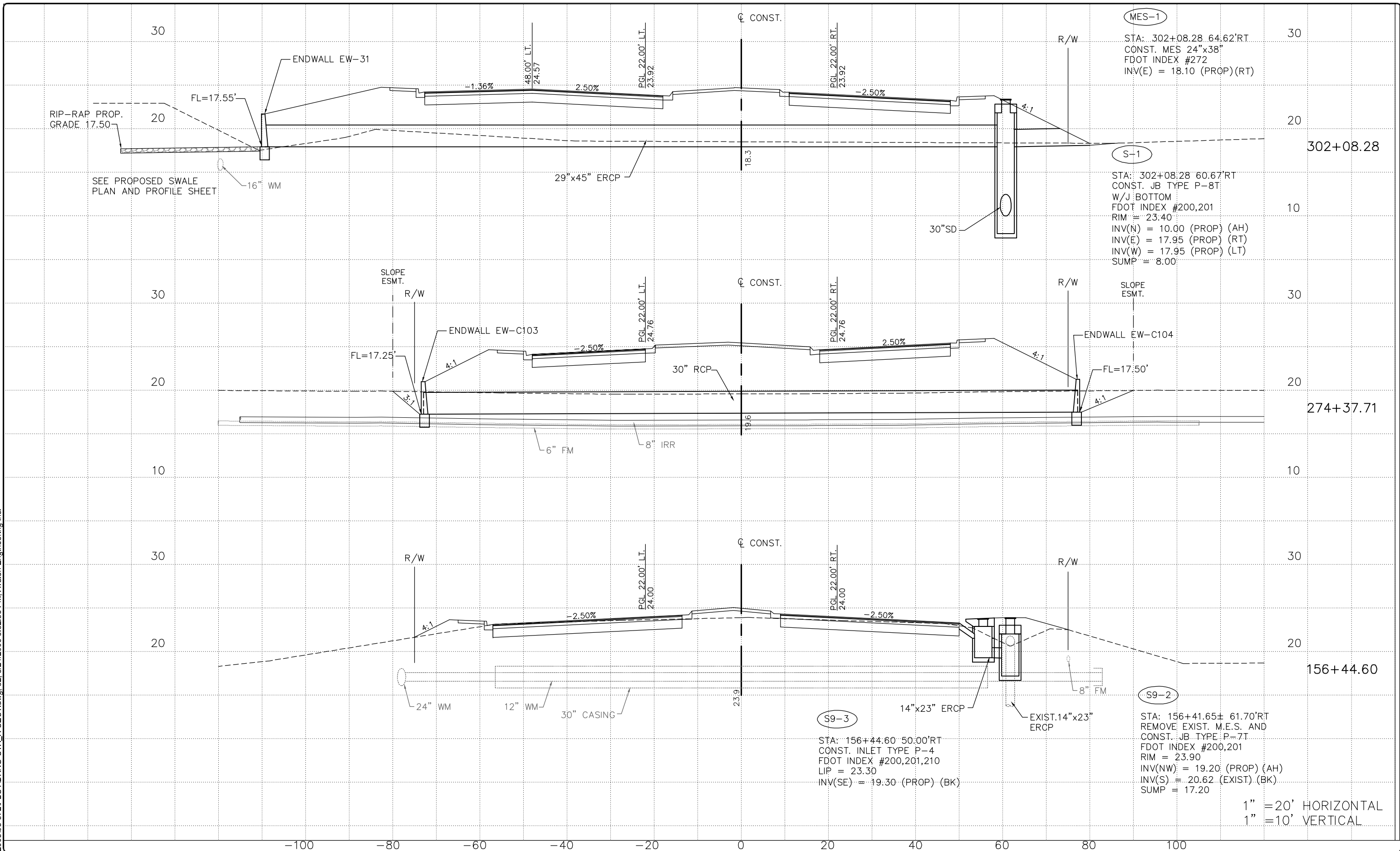
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**INTERSECTION DETAIL**  
**(DANIELS PKWY.)**

SHEET  
**51 OF 121**

P:\CAD\2008\08-372\PLTDRNG-STR\_X-SECT.dwg, 52, 8/24/2009 3:32:55 PM, Avalon Engineering Inc.



MES-1  
 STA: 302+08.28 64.62'RT  
 CONST. MES 24"x38"  
 FDOT INDEX #272  
 INV(E) = 18.10 (PROP)(RT)

S-1  
 STA: 302+08:28 60.67'RT  
 CONST. JB TYPE P-8T  
 W/J BOTTOM  
 FDOT INDEX #200,201  
 RIM = 23.40  
 INV(N) = 10.00 (PROP) (AH)  
 INV(E) = 17.95 (PROP) (RT)  
 INV(W) = 17.95 (PROP) (LT)  
 SUMP = 8.00

SLOPE ESMT.  
 R/W  
 ENDWALL EW-C103  
 FL=17.25'  
 4:1  
 3:1  
 6" FM  
 8" IRR  
 30" RCP  
 19.6  
 R/W  
 ENDWALL EW-C104  
 FL=17.50'  
 4:1

S9-2  
 STA: 156+41.65± 61.70'RT  
 REMOVE EXIST. M.E.S. AND  
 CONST. JB. TYPE P-7T  
 FDOT INDEX #200,201  
 RIM = 23.90  
 INV(NW) = 19.20 (PROP) (AH)  
 INV(S) = 20.62 (EXIST) (BK)  
 SUMP = 17.20

S9-3  
 STA: 156+44.60 50.00'RT  
 CONST. INLET TYPE P-4  
 FDOT INDEX #200,201,210  
 LIP = 23.30  
 INV(SE) = 19.30 (PROP) (BK)

1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
 (AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
 PROJ. MGR. Jack Schrager, PE  
 PROJ. DIR.  
 APPROVED:

**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

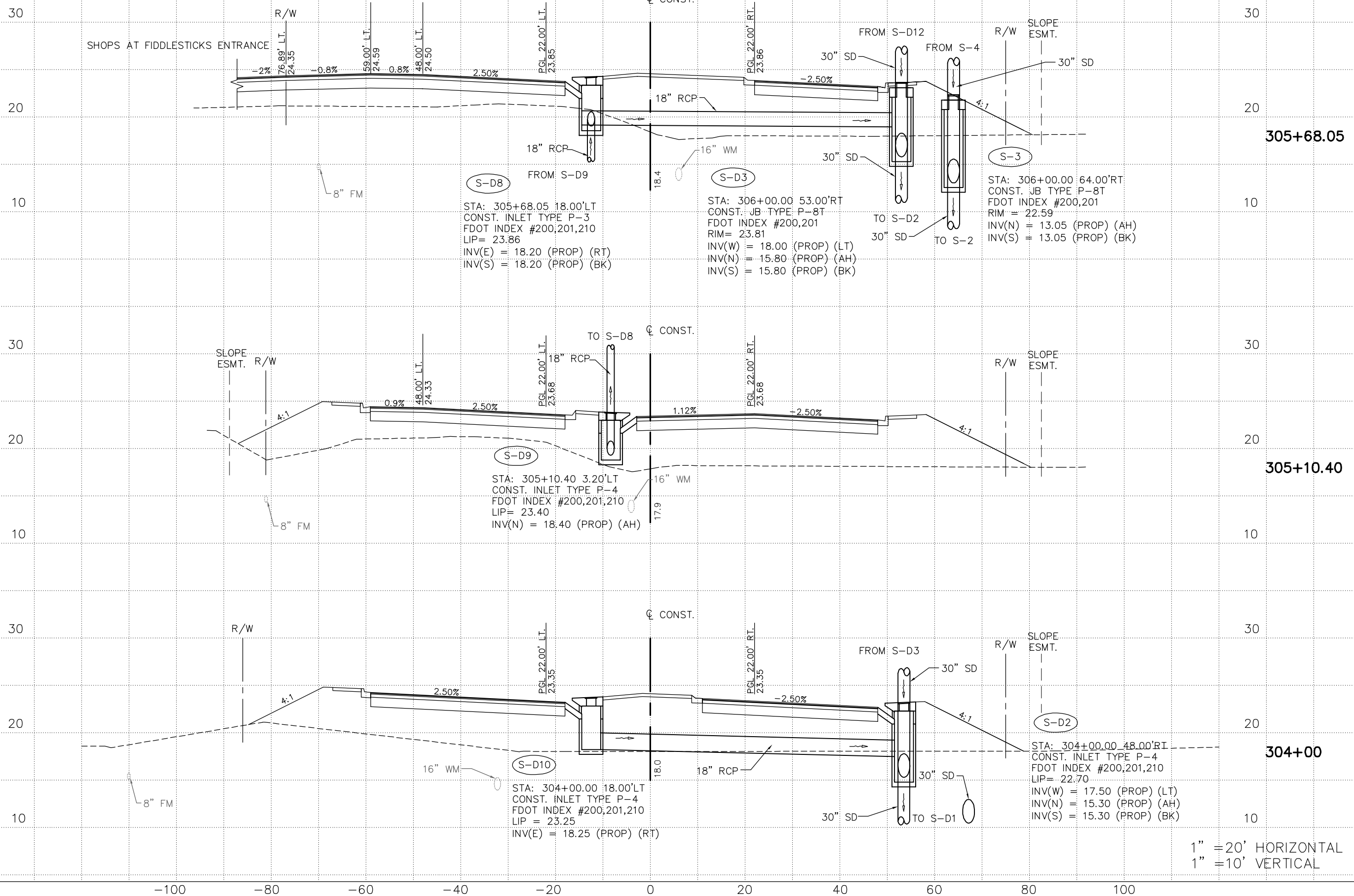
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**DRAINAGE STRUCTURES**  
**THREE OAKS PKWY EXT.**

SHEET  
**52 OF 121**

P:\CAD\2008\08-372\PLTDRNG-STR\_X-SECT.dwg, 53, 8/24/2009 3:32:58 PM, Avalon Engineering Inc.



1" = 20' HORIZONTAL  
1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

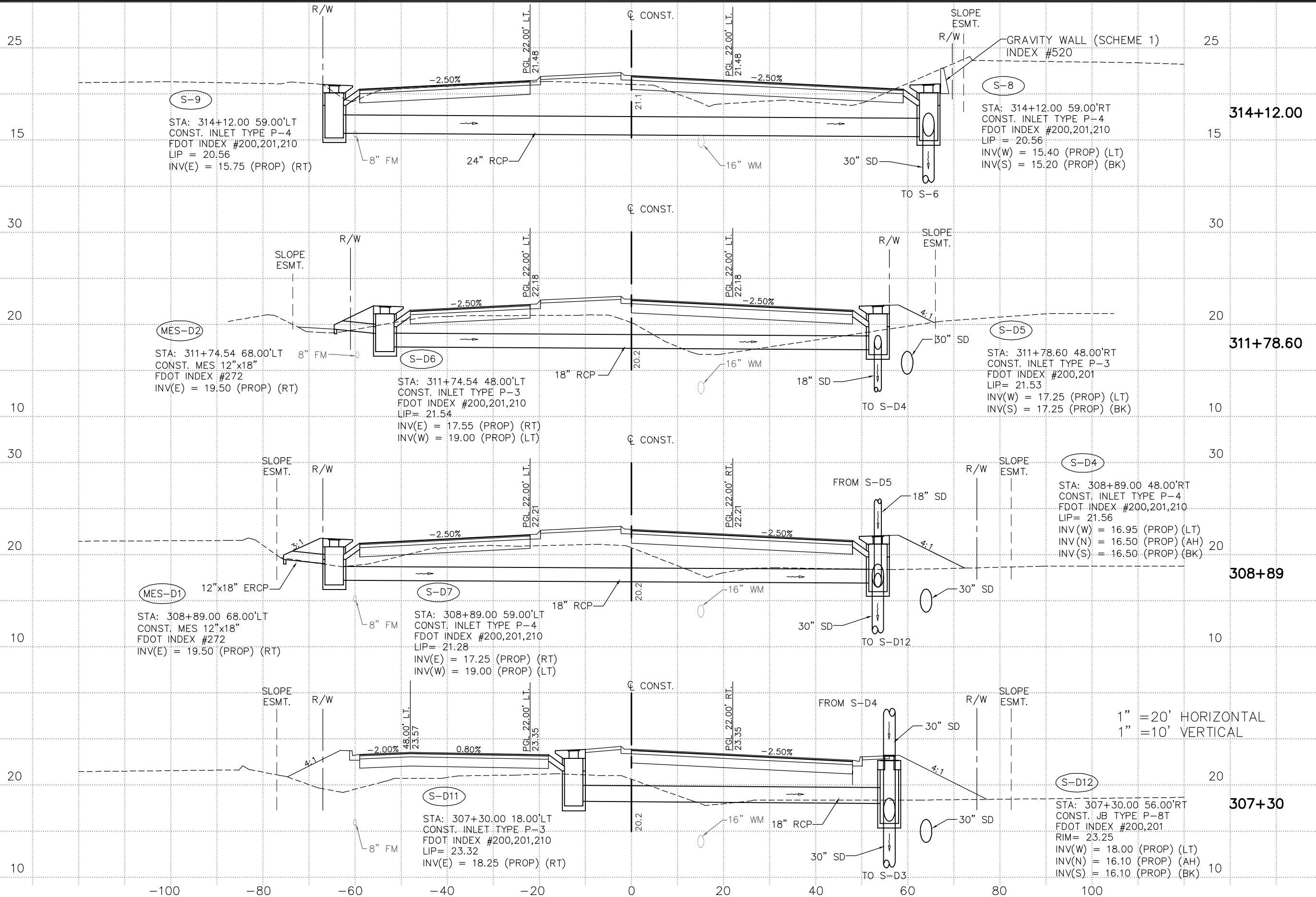
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**DRAINAGE STRUCTURES**  
**THREE OAKS PKWY EXT.**

SHEET  
**53 OF 121**

P:\CAD\2008\08-372\PLT\DRNG-STR\_X-SECT.dwg, 54, 8/24/2009 3:33:03 PM, Avalon Engineering Inc.



1" = 20' HORIZONTAL  
1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
 PROJ. MGR. Jack Schragger, PE  
 PROJ. DIR.  
 APPROVED:

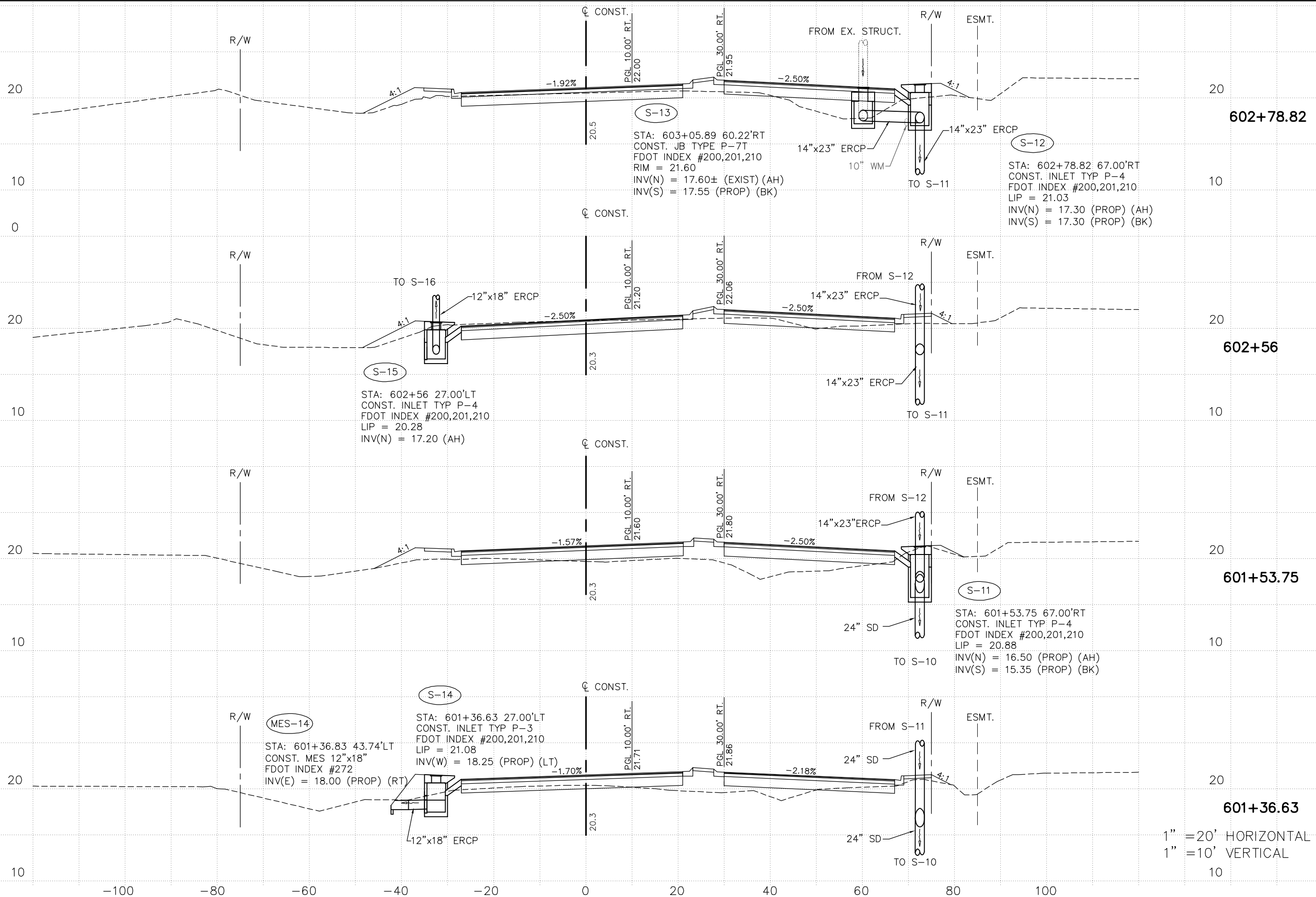
**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**DRAINAGE STRUCTURES**  
**THREE OAKS PKWY EXT.**  
 SHEET 54 OF 121

P:\CAD\2008\08-372\PLTDRNG-STR\_X-SECT.dwg, 55, 8/24/2009 3:33:08 PM, Avalon Engineering Inc.



1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
 (AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
 PROJ. MGR. Jack Schrager, PE  
 PROJ. DIR.  
 APPROVED:

**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

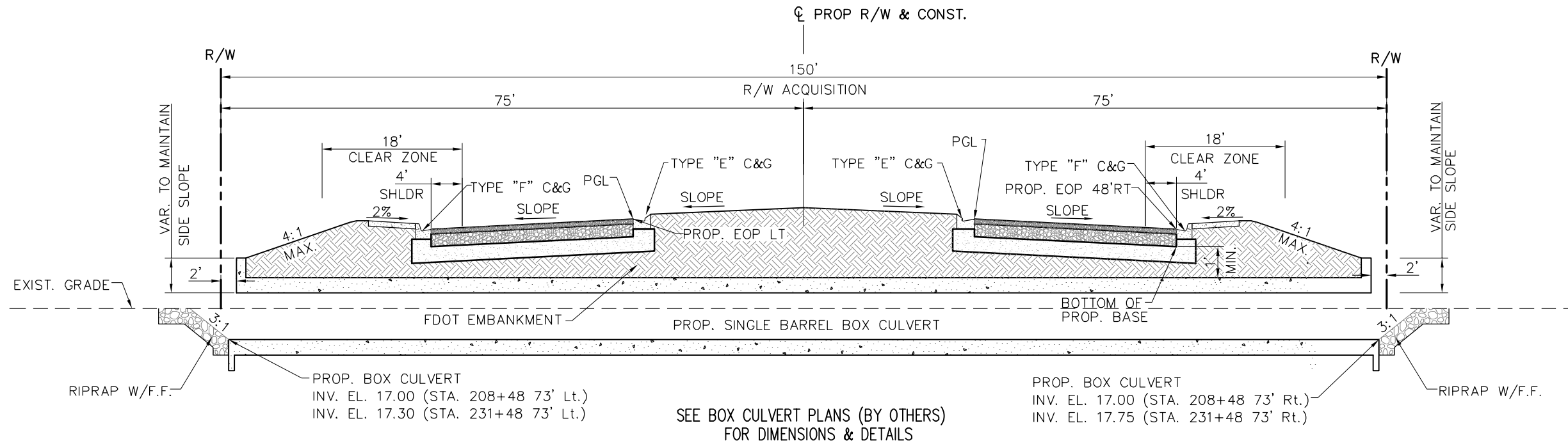
**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**DRAINAGE STRUCTURES**  
**THREE OAKS PKWY EXT.**

SHEET  
**55 OF 121**







**TYPICAL SECTION AT SINGLE BOX CULVERT**  
 AT STA. 208+48 AND STA. 231+48  
 N.T.S.

P:\CAD\2008\08-372\PL01\TCH-SEC.dwg, 5/7/2009 9:21:02 AM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
 (AUGUST - 2009)

FL LICENSE No. 24070

PROJ.08-372	DATE:
PROJ. MGR. Jack Schrager, PE	
PROJ. DIR.	
APPROVED:	

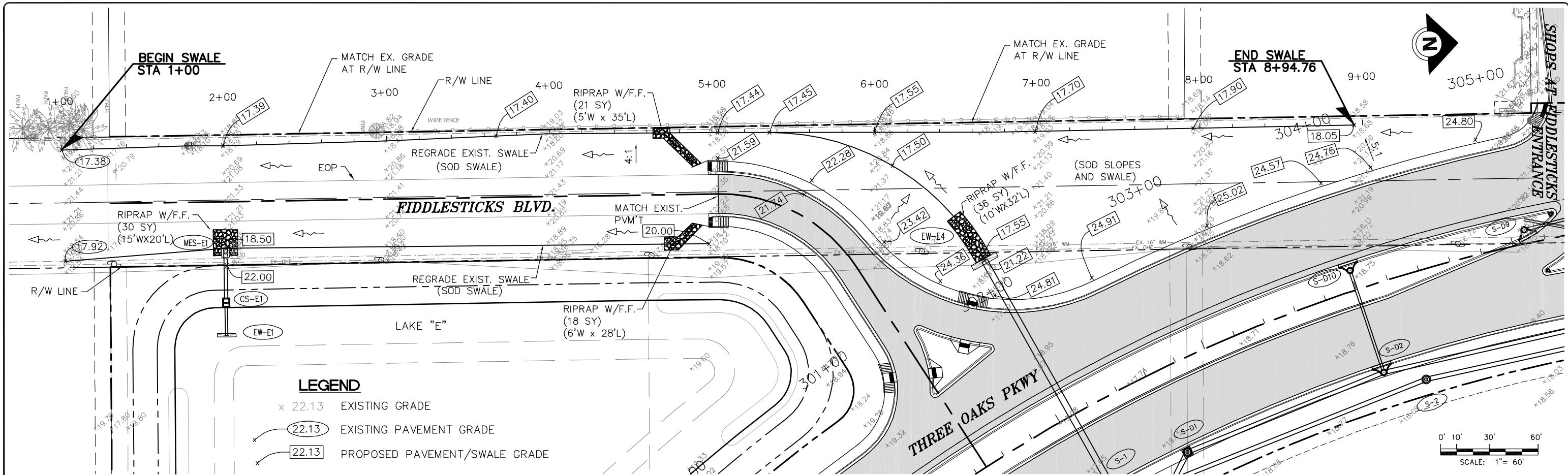
**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

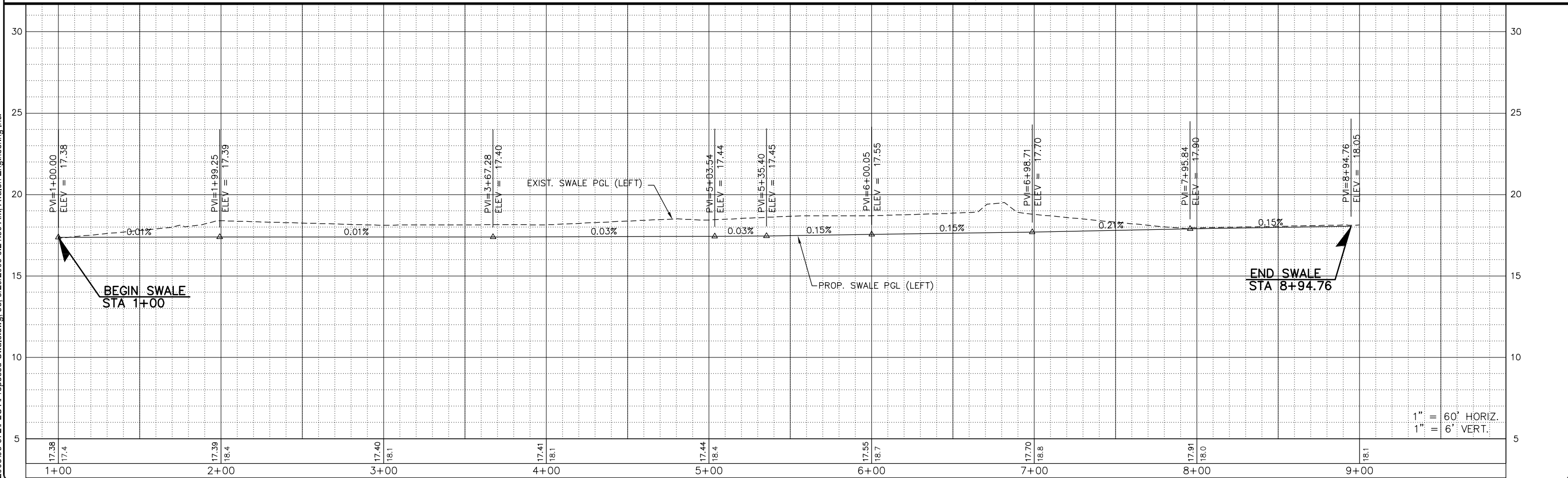
**SECTION AT BOX CULVERTS**  
**THREE OAKS PKWY EXT.**

SHEET  
**57 OF 121**



**LEGEND**

- x 22.13 EXISTING GRADE
- 22.13 EXISTING PAVEMENT GRADE
- 22.13 PROPOSED PAVEMENT/SWALE GRADE



P:\CAD\2008\08-372\PLT\Proposed-Swale.dwg, 58, 8/20/2009 9:21:56 AM, Avalon Engineering, Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
 PROJ. MGR. Jack Schrager, PE  
 PROJ. DIR.  
 APPROVED:

**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

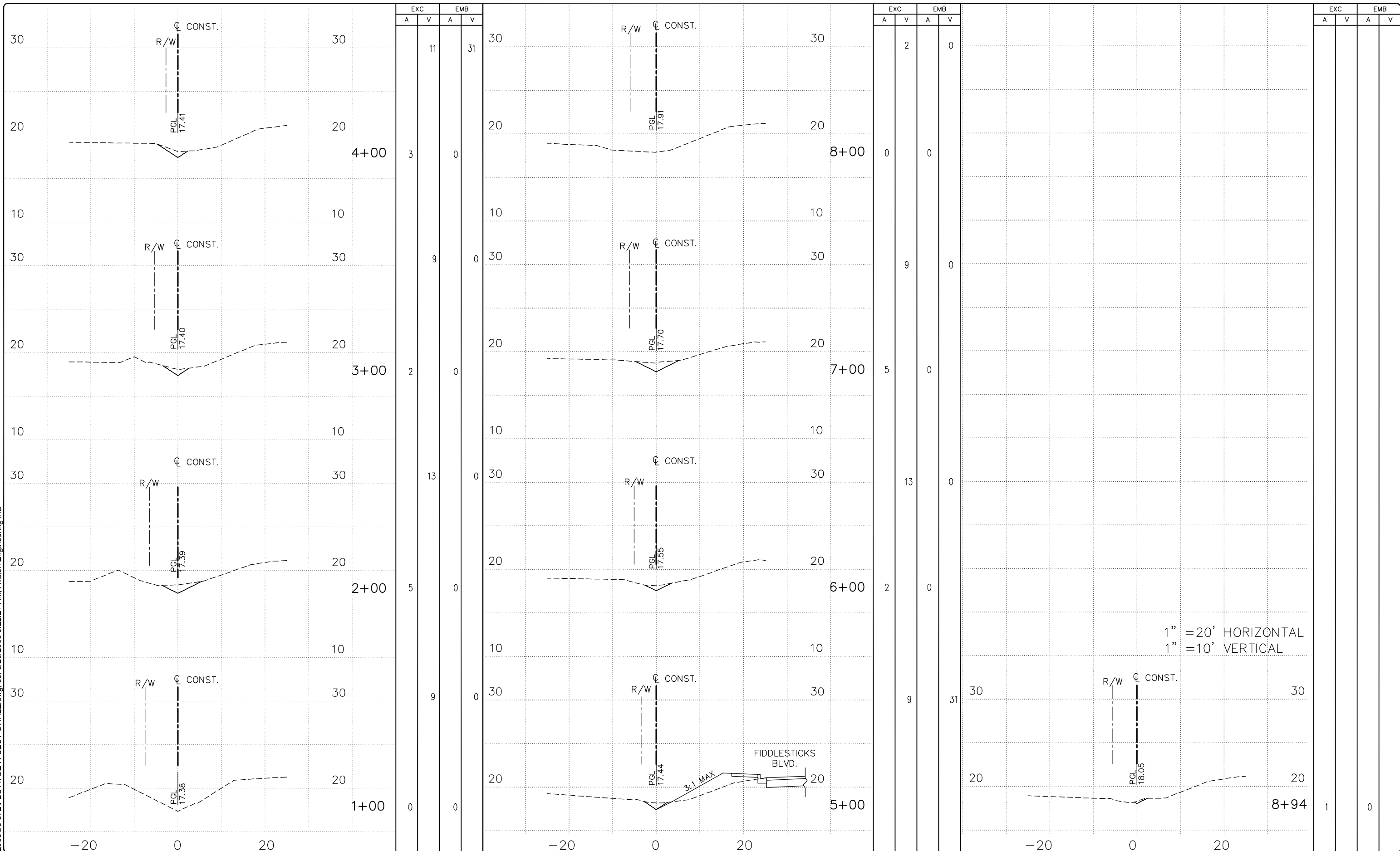
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**SWALE IMPROVEMENTS**  
**(FIDDLESTICKS BLVD.)**

SHEET  
**58 OF 121**

P:\CAD\2008\08-372\PLOT\TOE-X-SECT-SWALE.dwg, 59, 8/20/2009 9:22:21 AM, Avalon Engineering Inc.



DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
 PROJ. MGR. Jack Schrager, PE  
 PROJ. DIR.  
 APPROVED:

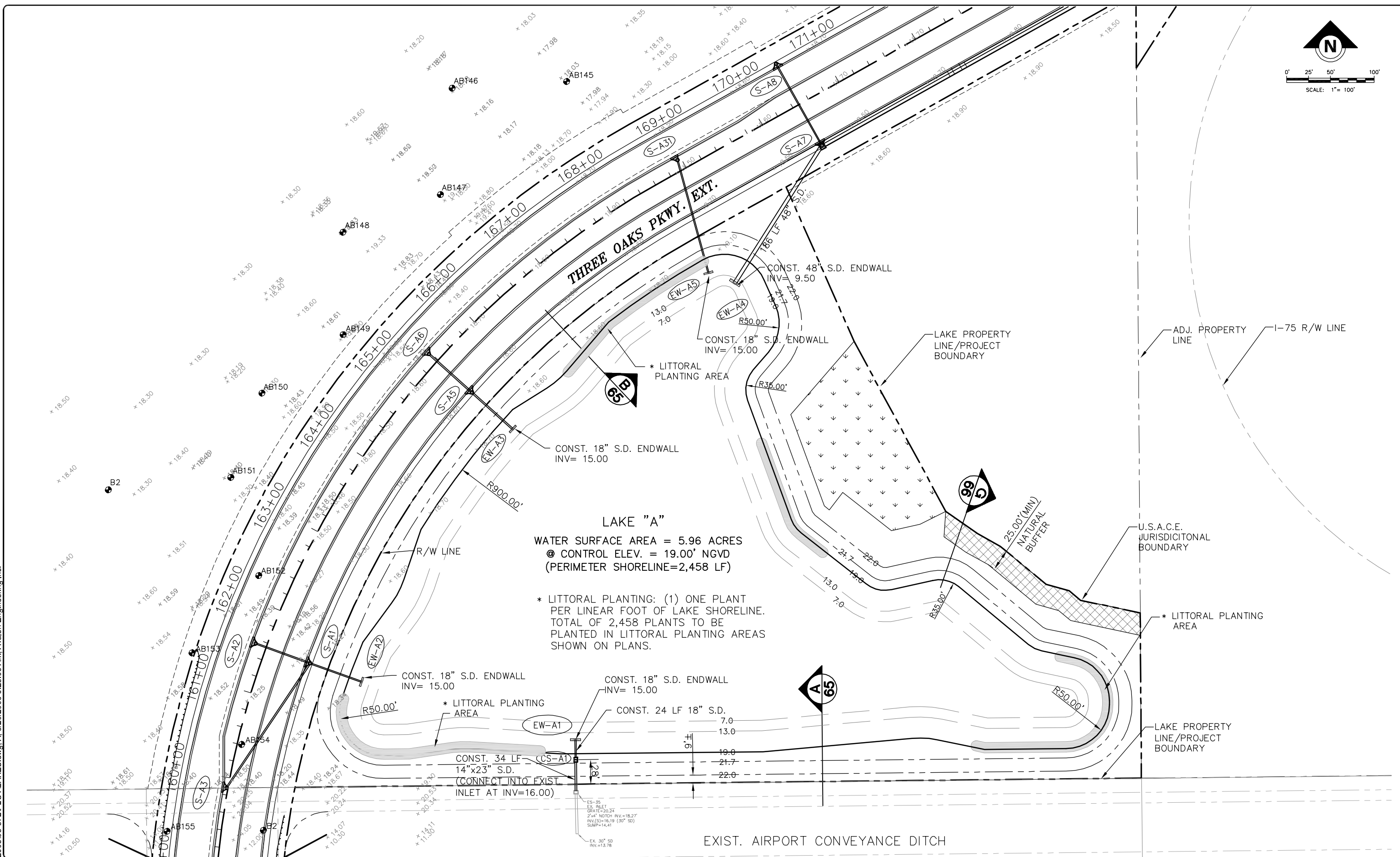
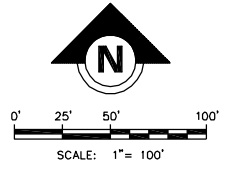
**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**SWALE IMPROVEMENTS**  
**CROSS SECTIONS**

SHEET  
**59 OF 121**



**LAKE "A"**  
 WATER SURFACE AREA = 5.96 ACRES  
 @ CONTROL ELEV. = 19.00' NGVD  
 (PERIMETER SHORELINE=2,458 LF)

\* LITTORAL PLANTING: (1) ONE PLANT  
 PER LINEAR FOOT OF LAKE SHORELINE.  
 TOTAL OF 2,458 PLANTS TO BE  
 PLANTED IN LITTORAL PLANTING AREAS  
 SHOWN ON PLANS.

P:\CAD\2008\08-372\PLTLAKES.dwg, A. 8/20/2009 9:23:06 AM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
 (AUGUST - 2009)

FL LICENSE No. 24070

PROJ.08-372 DATE:  
 PROJ. MGR. Jack Schrager, PE  
 PROJ. DIR.  
 APPROVED:

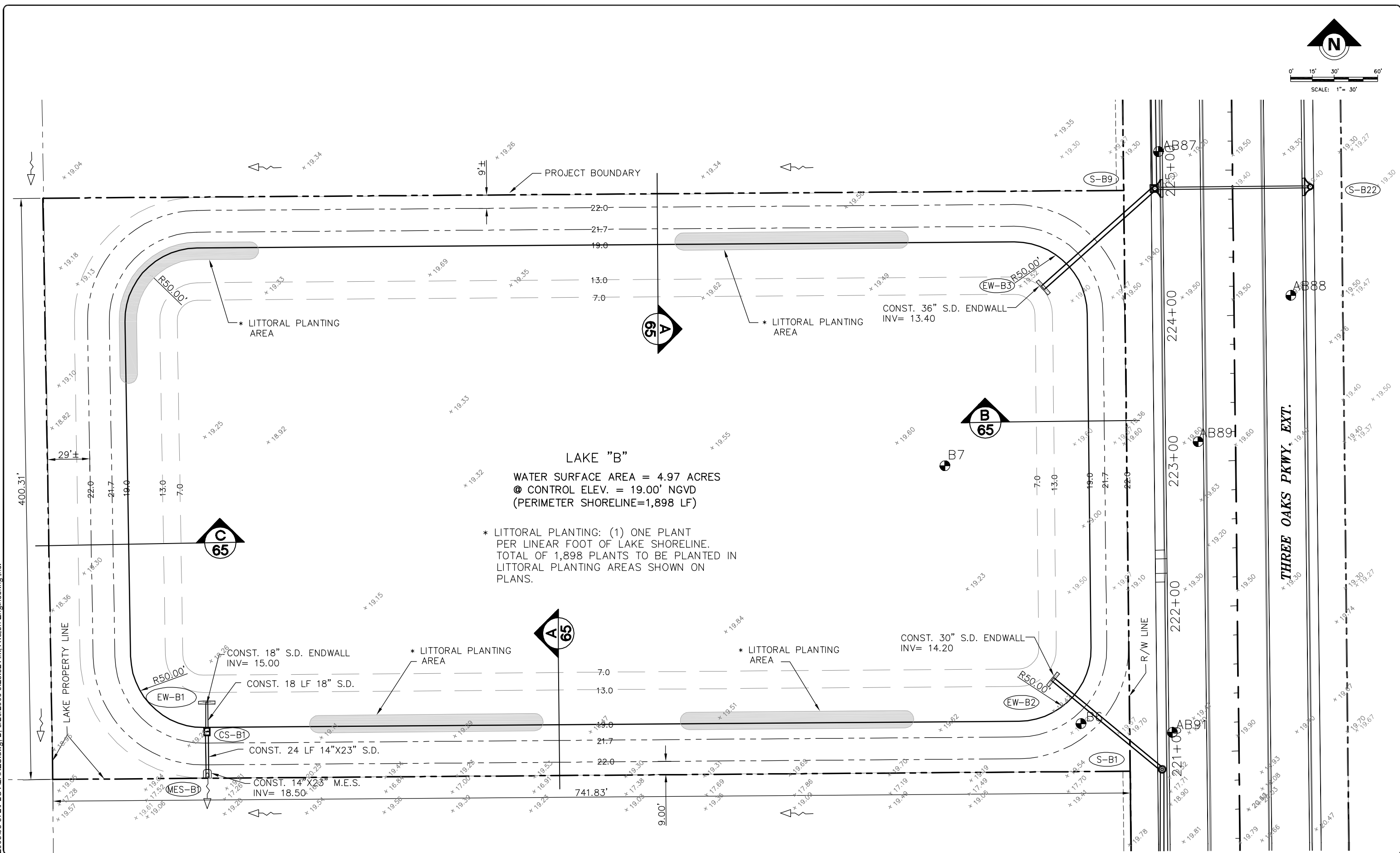
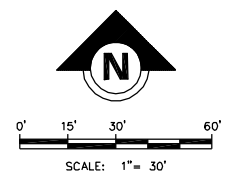
**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE#3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**LAKE 'A' DETAIL PLANS**  
**THREE OAKS PKWY EXT.**

SHEET  
**60 OF 121**



**LAKE "B"**  
 WATER SURFACE AREA = 4.97 ACRES  
 @ CONTROL ELEV. = 19.00' NGVD  
 (PERIMETER SHORELINE=1,898 LF)

\* LITTORAL PLANTING: (1) ONE PLANT  
 PER LINEAR FOOT OF LAKE SHORELINE.  
 TOTAL OF 1,898 PLANTS TO BE PLANTED IN  
 LITTORAL PLANTING AREAS SHOWN ON  
 PLANS.

P:\CAD\2008\08-372\PLTLAKES.dwg, B. 8/20/2009 9:23:32 AM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
 (AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
 PROJ. MGR. Jack Schrager, PE  
 PROJ. DIR.  
 APPROVED:

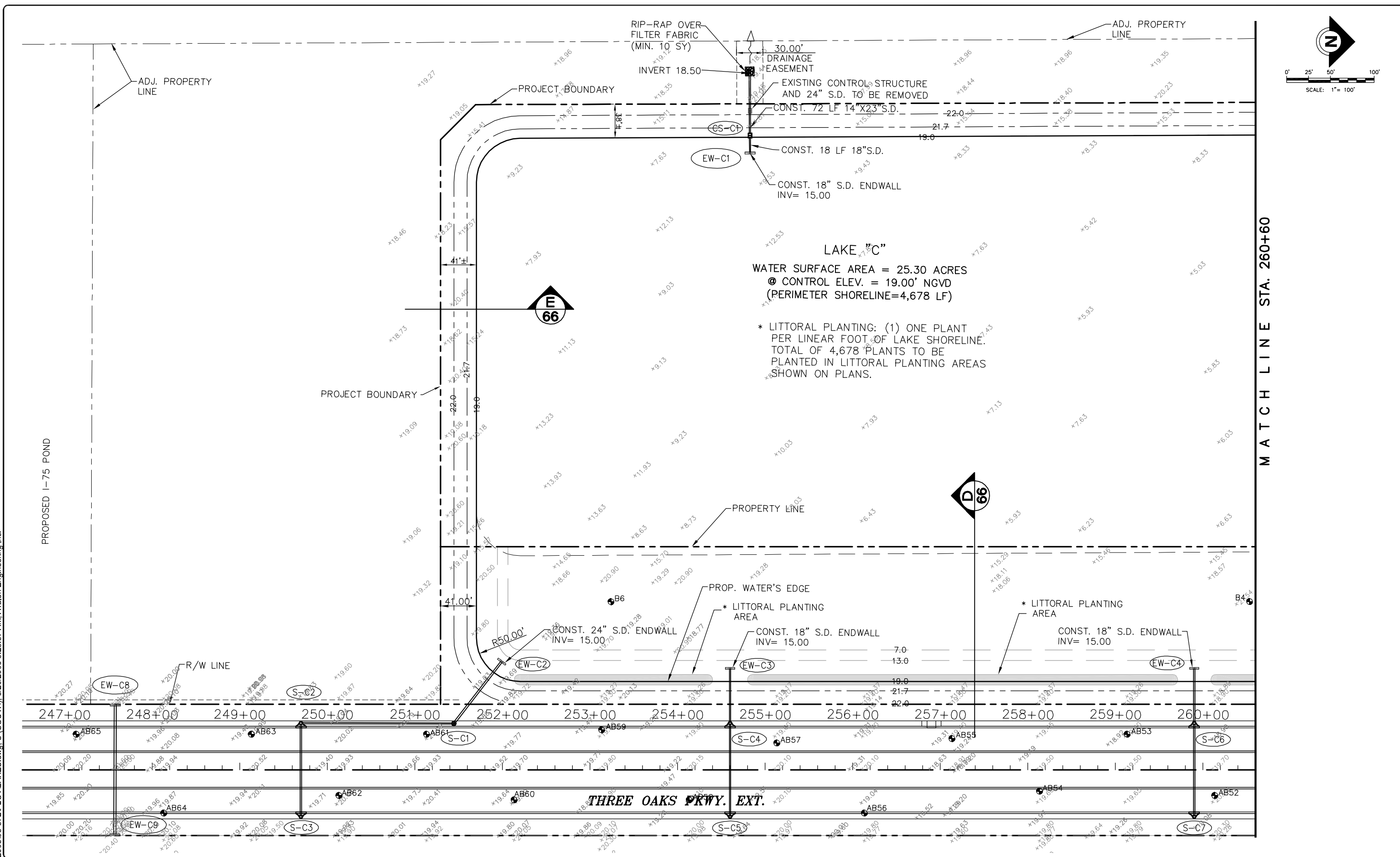
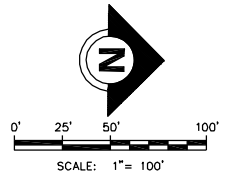
**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**LAKE 'B' DETAIL PLANS**  
**THREE OAKS PKWY EXT.**

SHEET  
**61 OF 121**



P:\CAD\2008-372\PLTLAKES.dwg, C (SOUTH), 8/20/2009 9:23:57 AM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
 PROJ. MGR. Jack Schrager, PE  
 PROJ. DIR.  
 APPROVED:

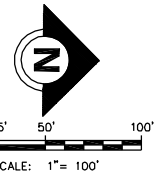
**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

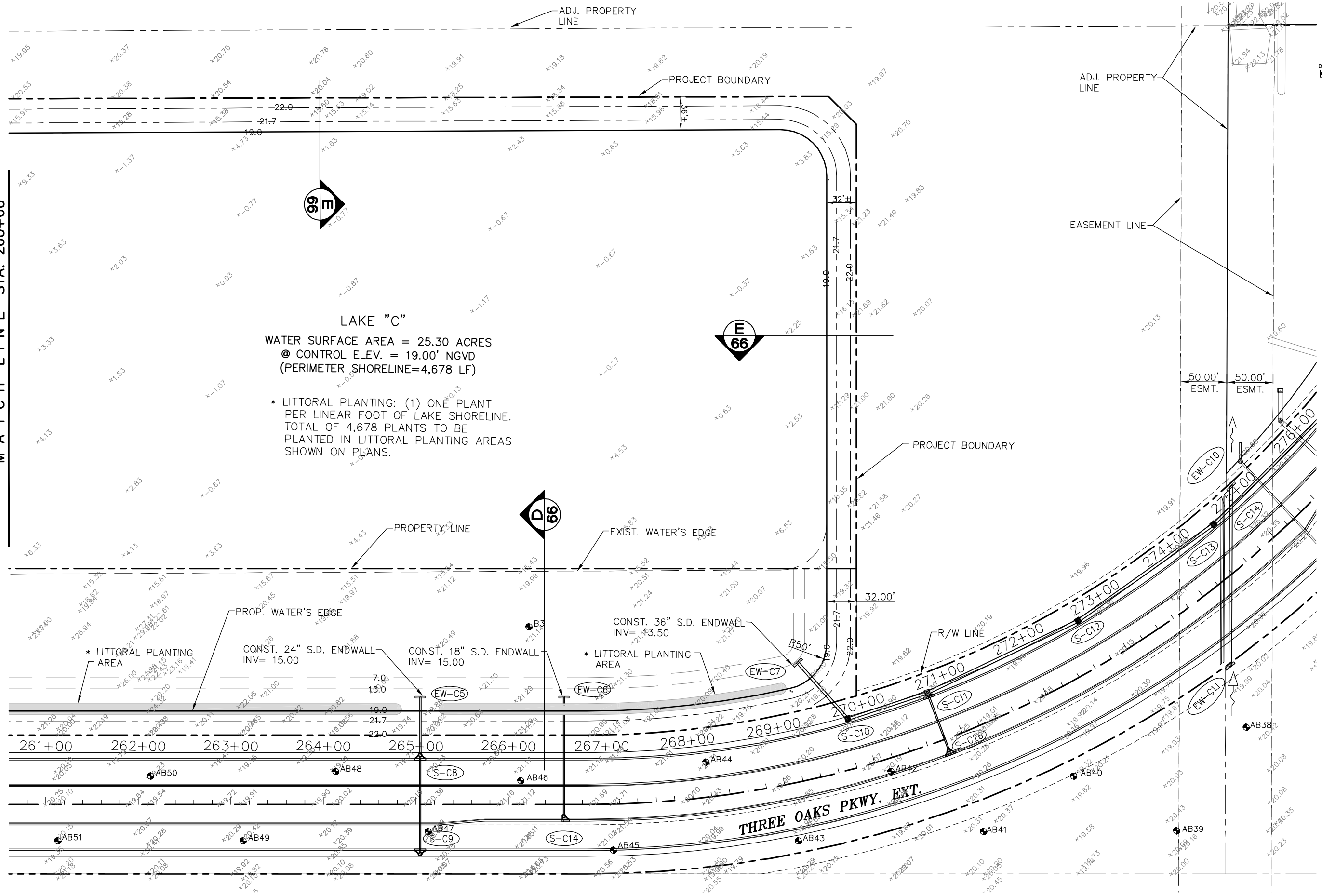
**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**LAKE 'C' SOUTH DETAIL PLANS**  
**THREE OAKS PKWY EXT.**

SHEET  
**62 OF 121**



MATCH LINE STA. 260+60



**LAKE "C"**  
 WATER SURFACE AREA = 25.30 ACRES  
 @ CONTROL ELEV. = 19.00' NGVD  
 (PERIMETER SHORELINE=4,678 LF)

\* LITTORAL PLANTING: (1) ONE PLANT  
 PER LINEAR FOOT OF LAKE SHORELINE.  
 TOTAL OF 4,678 PLANTS TO BE  
 PLANTED IN LITTORAL PLANTING AREAS  
 SHOWN ON PLANS.

CONST. 24" S.D. ENDWALL  
 INV= 15.00

CONST. 18" S.D. ENDWALL  
 INV= 15.00

CONST. 36" S.D. ENDWALL  
 INV= +3.50

P:\CAD\2008-372\PLTLAKES.dwg, C (NORTH), 8/20/2009 9:24:22 AM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
 (AUGUST - 2009)

FL LICENSE No. 24070

PROJ.08-372 DATE:  
 PROJ. MGR. Jack Schrager, PE  
 PROJ. DIR.  
 APPROVED:

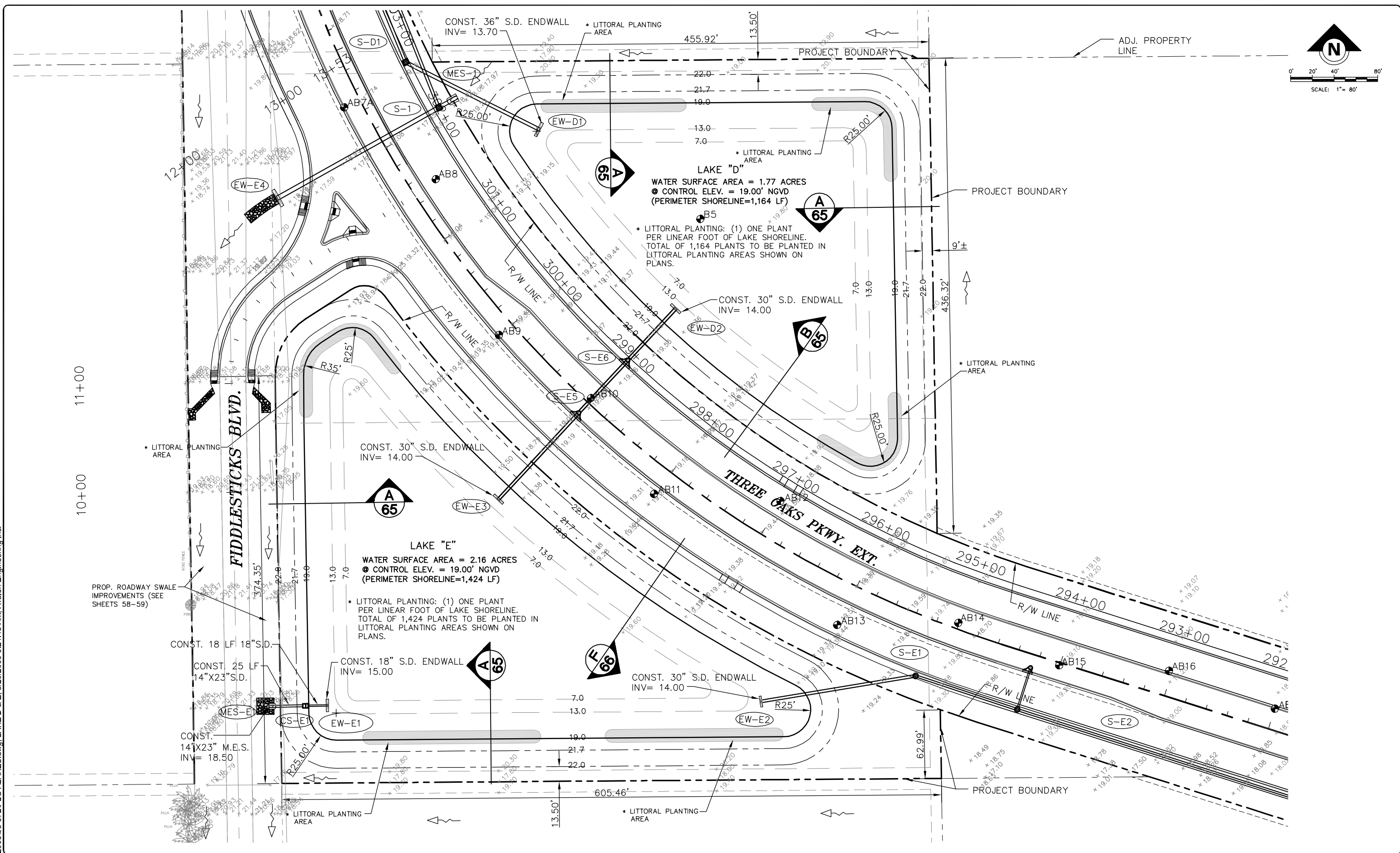
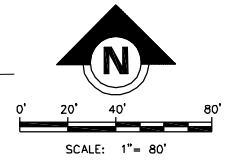
**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**LAKE 'C' NORTH DETAIL PLANS**  
**THREE OAKS PKWY EXT.**

SHEET  
**63 OF 121**



P:\CAD\2008\08-372\PLTLAKES.dwg, LAKE D & E, 8/20/2009 9:24:48 AM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
 PROJ. MGR. Jack Schrager, PE  
 PROJ. DIR.  
 APPROVED:

**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

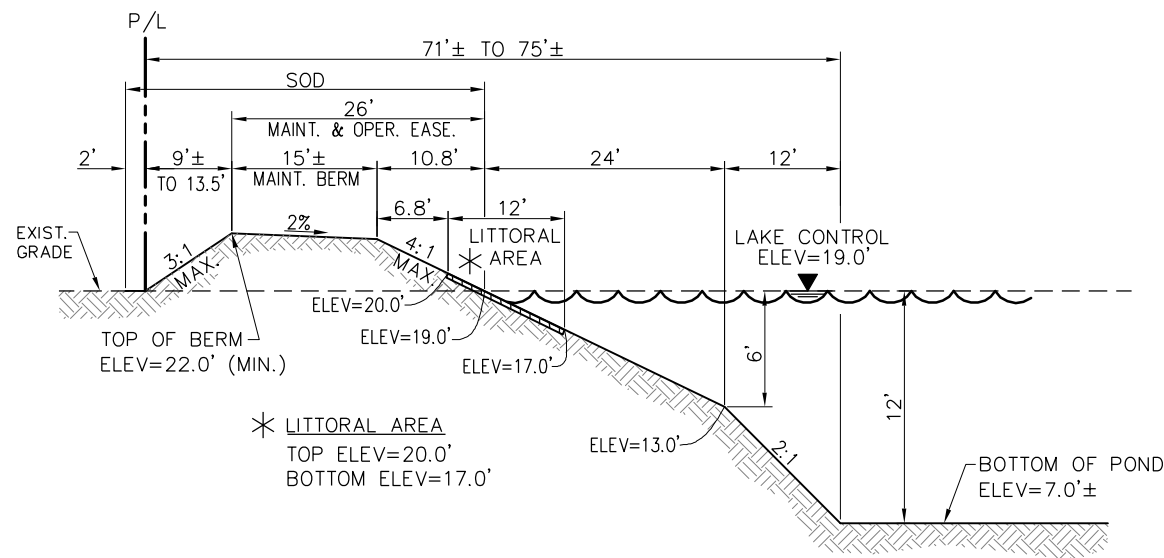
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

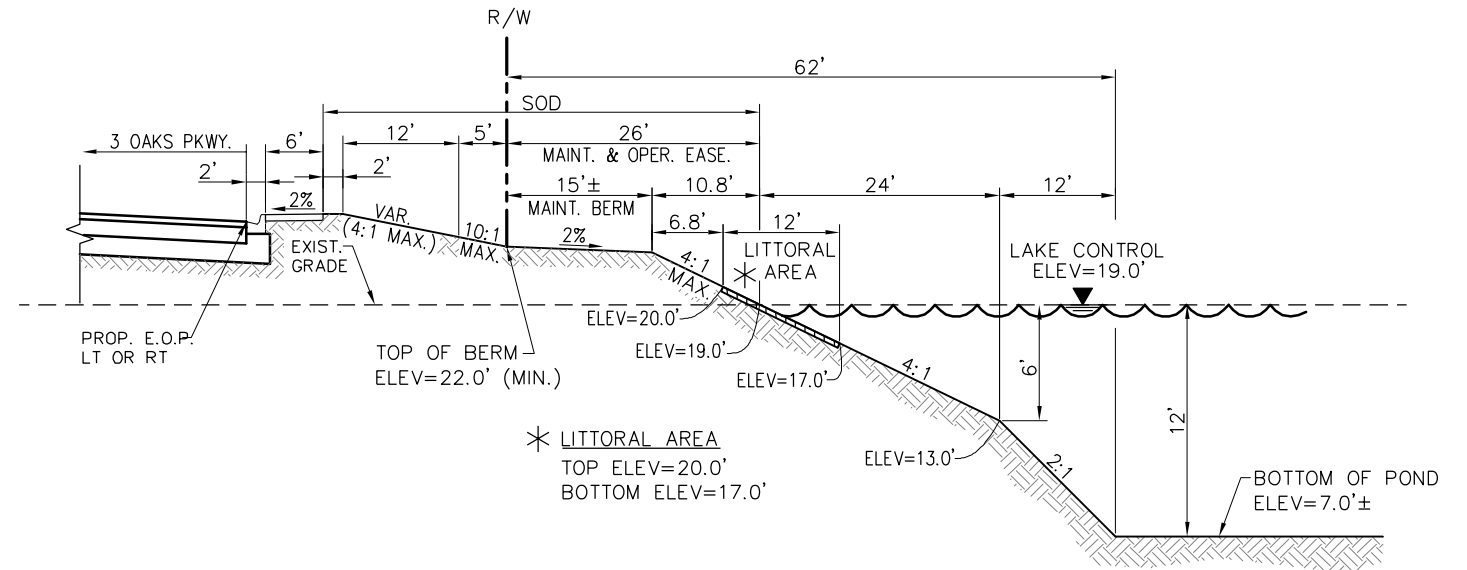
**LAKE 'D & E' DETAIL PLANS**  
**THREE OAKS PKWY EXT.**

SHEET  
**64 OF 121**

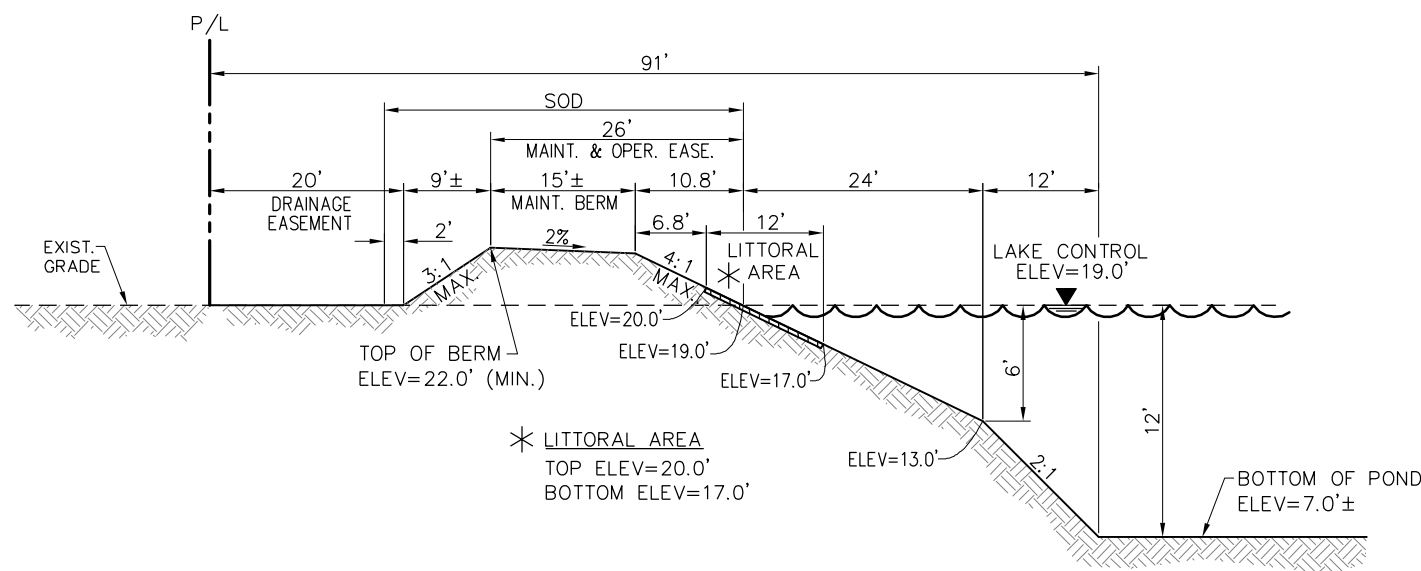




**A**  
65  
**TYPICAL LAKE PERIMETER BERM DETAIL**  
(PLAN VIEW SHEETS 60, 61 & 64)  
N.T.S.



**B**  
65  
**TYPICAL LAKE AND ROADWAY SIDE SLOPE DETAIL**  
(PLAN VIEW SHEETS 60, 61 AND 64)  
N.T.S.



**C**  
65  
**LAKE PERIMETER BERM DETAIL**  
**(W/20' DRAINAGE EASEMENT)**  
(PLAN VIEW SHEET 61)  
N.T.S.

\* LITTORAL PLANTING: (1) ONE PLANT PER LINEAR FOOT OF LAKE SHORELINE. TO BE PLANTED IN LITTORAL PLANTING AREAS SHOWN ON PLANS.

P:\CAD\2008\08-372\PLTLAKE-SEC.dwg, 65, 8/20/2009 9:25:08 AM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. MGR.	Jack Schrager, PE
PROJ. DIR.	
APPROVED:	

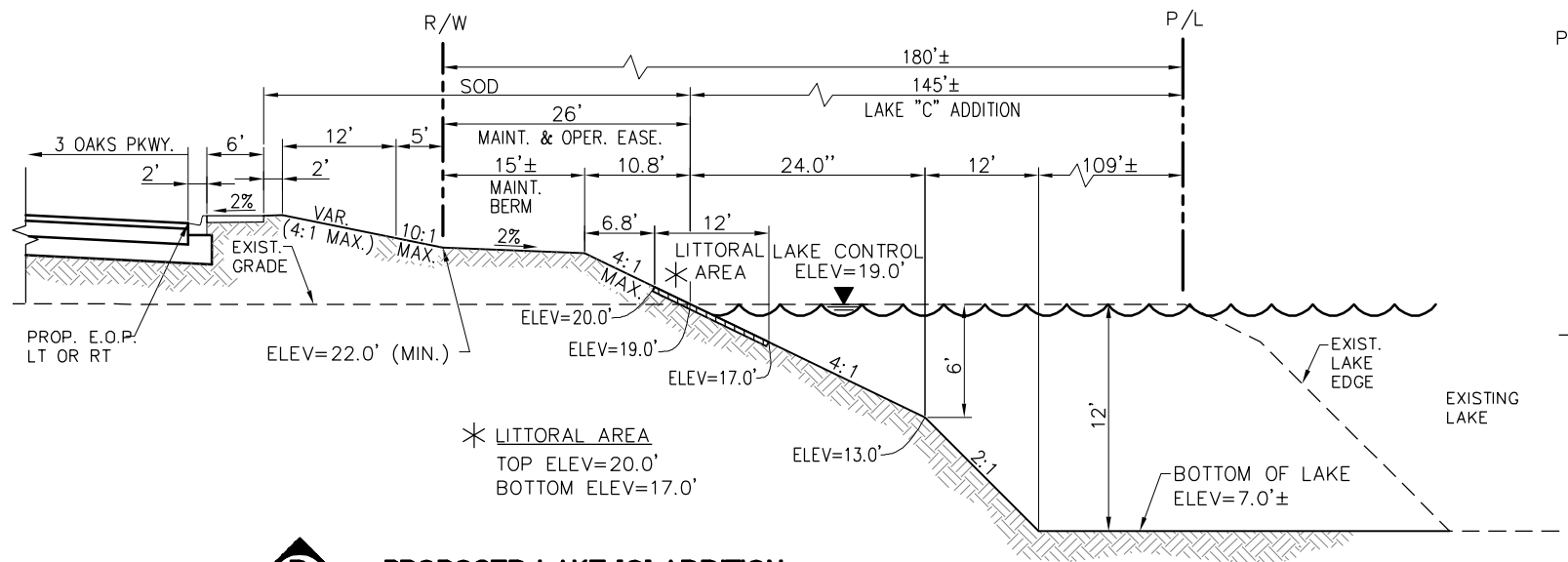
**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

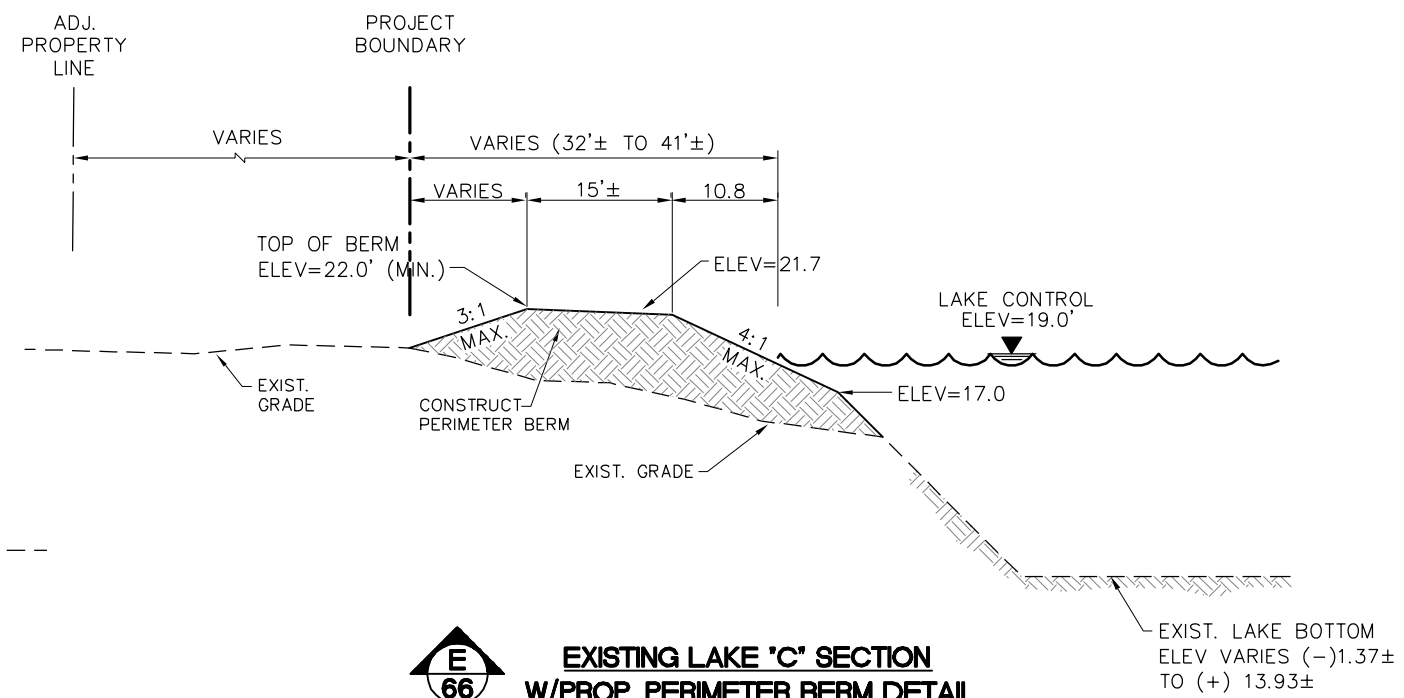
**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**LAKE SECTIONS**  
**THREE OAKS PKWY EXT.**

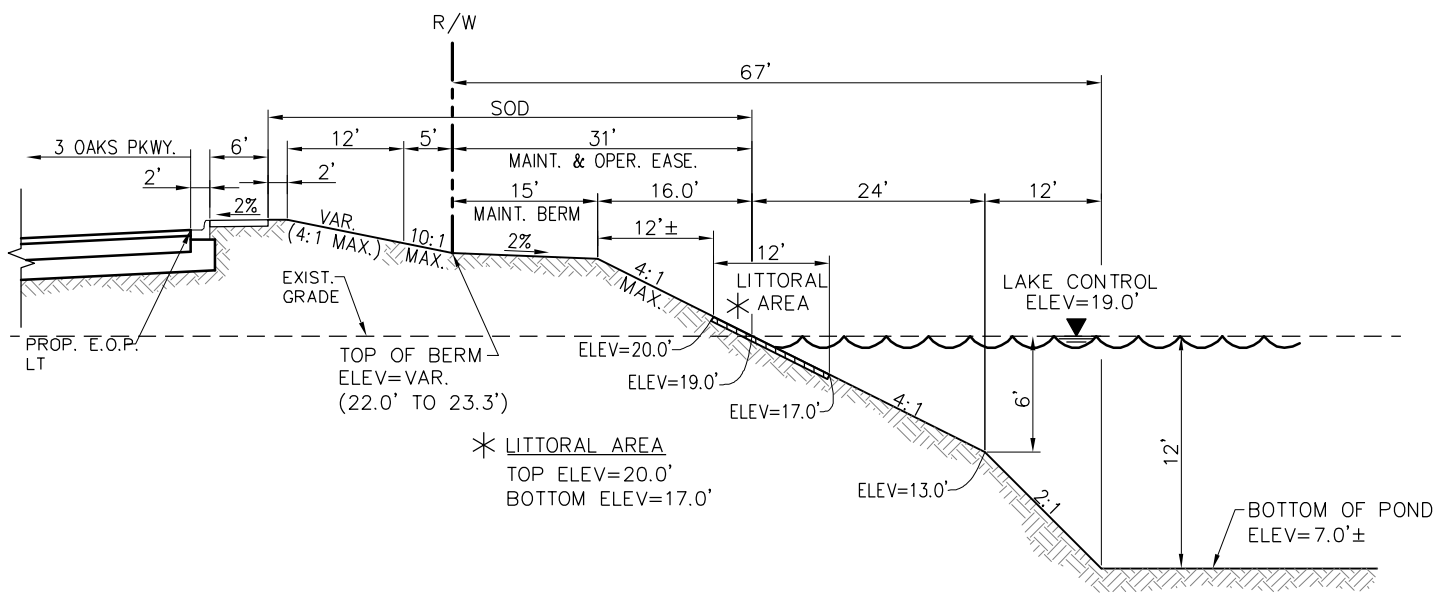
SHEET  
**65 OF 121**



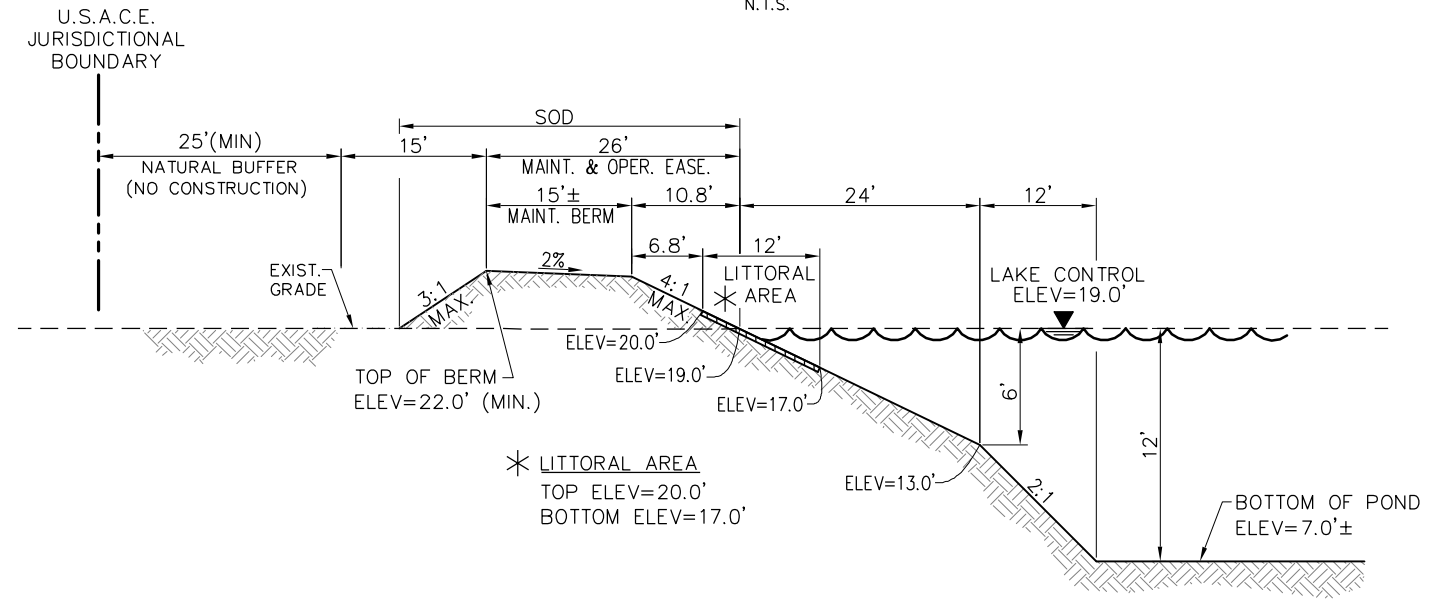
**D**  
**66** **PROPOSED LAKE 'C' ADDITION AND ROADWAY SIDE SLOPE DETAIL**  
(PLAN VIEW SHEETS 62 AND 63)  
N.T.S.



**E**  
**66** **EXISTING LAKE 'C' SECTION W/PROP. PERIMETER BERM DETAIL**  
(PLAN VIEW SHEETS 62 AND 63)  
N.T.S.



**F**  
**66** **LAKE AND ROADWAY SIDE SLOPE DETAIL (W/31' MAINTENANCE & OPERATIONS EASEMENT)**  
(PLAN VIEW SHEET 64)  
N.T.S.



**G**  
**66** **LAKE PERIMETER BERM DETAIL ADJACENT TO WETLAND**  
(PLAN VIEW SHEET 60)  
N.T.S.

\* LITTORAL PLANTING: (1) ONE PLANT PER LINEAR FOOT OF LAKE SHORELINE. TO BE PLANTED IN LITTORAL PLANTING AREAS SHOWN ON PLANS.

P:\CAD\2008\08-372\PLTLAKE-SEC.dwg, 66, 8/20/2009 9:25:13 AM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

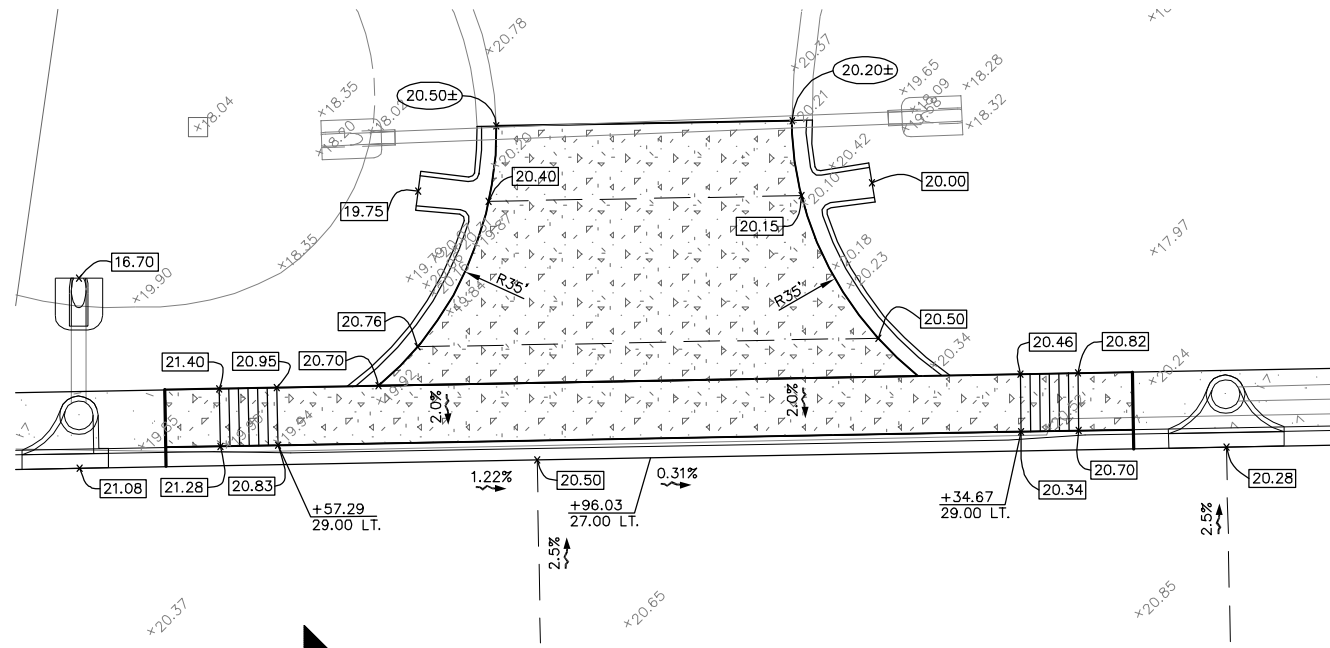
**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

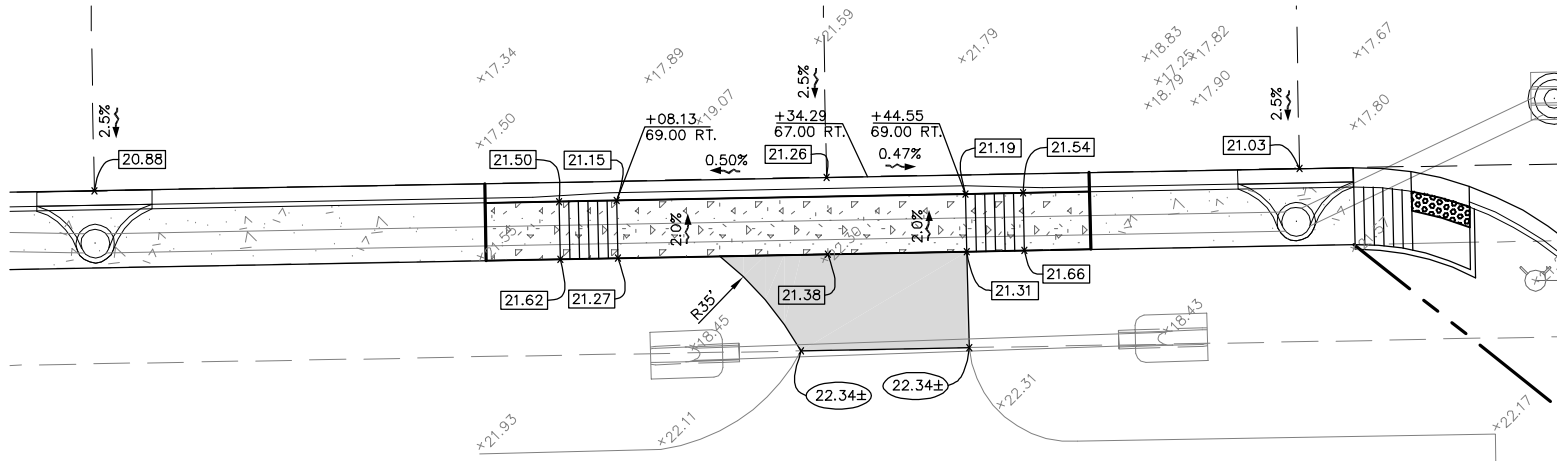
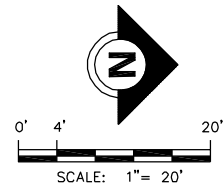
**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**LAKE-SECTIONS**  
**THREE OAKS PKWY EXT.**

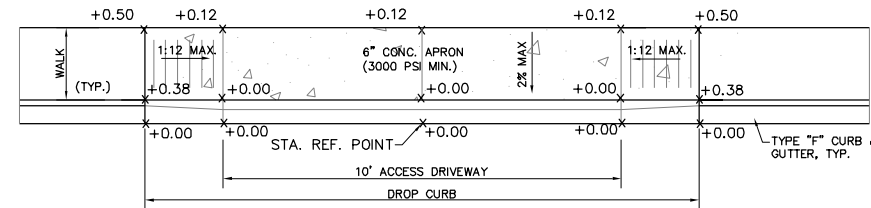
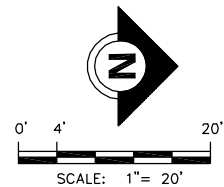
SHEET  
**66 OF 121**



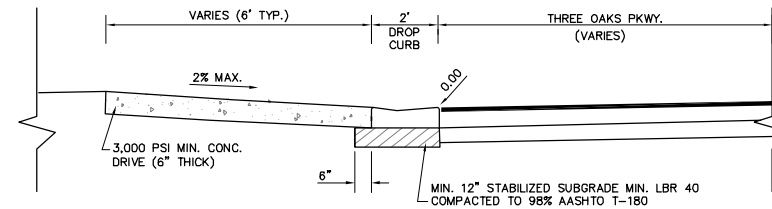
DRIVEWAY @ STA. 601+96.03 (LT)



DRIVEWAY @ STA. 602+34.29 (RT)



PLAN



SECTION

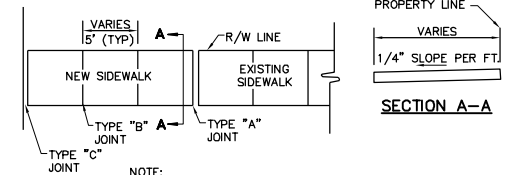
NOTES:

- CONTRACTOR SHALL HAVE DRIVEWAY FORMING INSPECTED FOR H/C COMPLIANCE BEFORE POURING CONCRETE.
- THE SIDEWALK FOUNDATION SHALL BE COMPACTED TO A FIRM EVEN SURFACE AND SHALL BE FREE OF SOD AND OTHER ORGANIC MATERIAL. SIDEWALK SAWCUT JOINTS SHALL BE ON 5' CENTERS AND 1/3 THE SLAB THICKNESS.
- SIDEWALK DESIGN TO MEET ADA REQUIREMENTS.

MAINTENANCE ACCESS AND DRIVEWAY DETAIL

N.T.S.

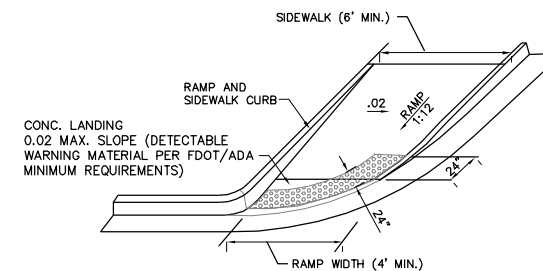
TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
A	PC & PT OF CURVES JUNCTION OF EXISTING NEW SIDEWALKS
B	5'-0" CENTER TO CENTER ON SIDEWALKS
C	WHERE SIDEWALK ABUTS CONCRETE DRIVEWAYS AND SIMILAR STRUCTURES.



NOTE:  
3,000 PSI MIN. CONCRETE (MIN. 4" THICK)  
FOUNDATION SHALL BE FREE OF SOD AND  
OTHER ORGANIC MATERIAL. SAW CUT JOINTS  
SHALL BE ON 5' CENTER.

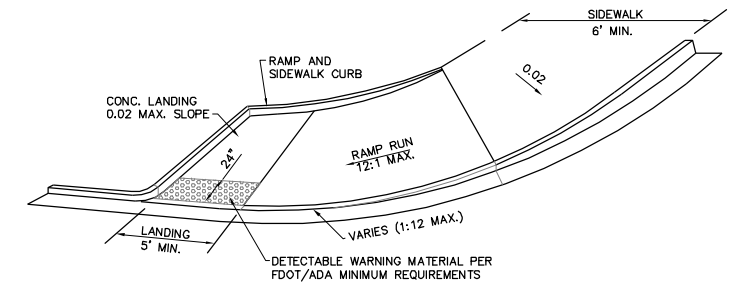
SIDEWALK JOINTS DETAIL

CB-WALK.DWG (2007)  
N.T.S.



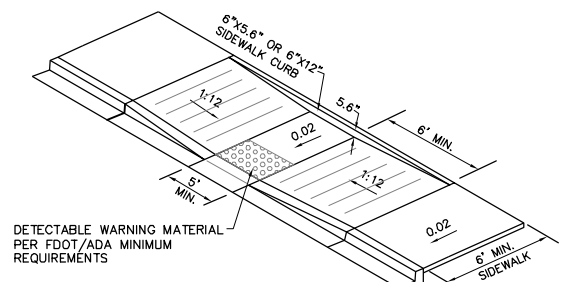
FDOT CURB RAMP CR-20

N.T.S.



FDOT CURB RAMP CR-23

N.T.S.



FDOT CURB RAMP CR-3

N.T.S.

NOTE:  
1. DETECTABLE WARNING MATERIAL SHALL BE PROVIDED (24" MIN. DEPTH FROM  
BACK OF CURB AND FULL WIDTH OF FLUSH TRANSITION) AT ALL HANDICAP RAMPS  
AND WHERE WALKWAYS ENTER VEHICULAR TRAFFIC AREAS, AND SHALL MEET  
MINIMUM FDOT/ADA REQUIREMENTS. REFER TO FDOT 304 FOR ADDITIONAL  
DETECTABLE WARNING DETAILS AND NOTES.  
2. FOR ADDITIONAL WALK, RAMP, CURBING & DETECTABLE WARNING  
DETAILS, REFER TO 2008 FDOT DESIGN STANDARDS INDEX 304,  
SHEETS 1-6

LEGEND

- EXISTING GRADE
- MATCH EXISTING GRADE POINT
- PROPOSED PAVEMENT GRADE
- NEW PAVEMENT SECTION
- MILL AND OVERLAY (1" TYP.)
- MILL AND OVERLAY (DEPTH VARIES)
- PROPOSED CONCRETE

P:\CAD\2008\08-372\PLOTS\SWK\_HINDCP-RAMP-DET.dwg, 67, 8/20/2009 9:26:12 AM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

90% SUBMITTAL PLANS  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372	DATE:
PROJ. MGR. Jack Schrager, PE	
PROJ. DIR.	
APPROVED:	

AVALON ENGINEERING, INC.  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

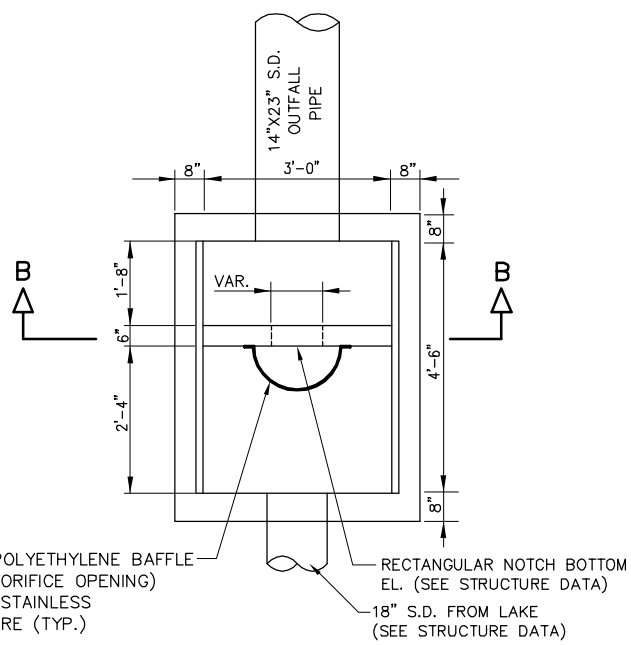
LEE COUNTY DEPARTMENT  
OF  
TRANSPORTATION  
(239) 533-8580

THREE OAKS PARKWAY EXTENSION  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

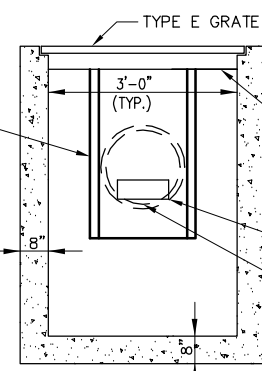
SIDEWALK ADA RAMP DETAILS  
THREE OAKS PKWY EXT.

SHEET  
67 OF 121

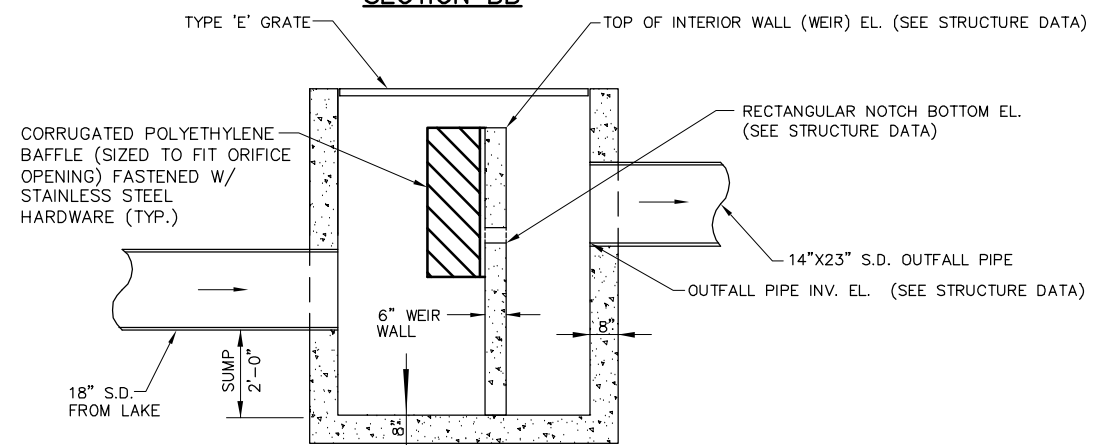
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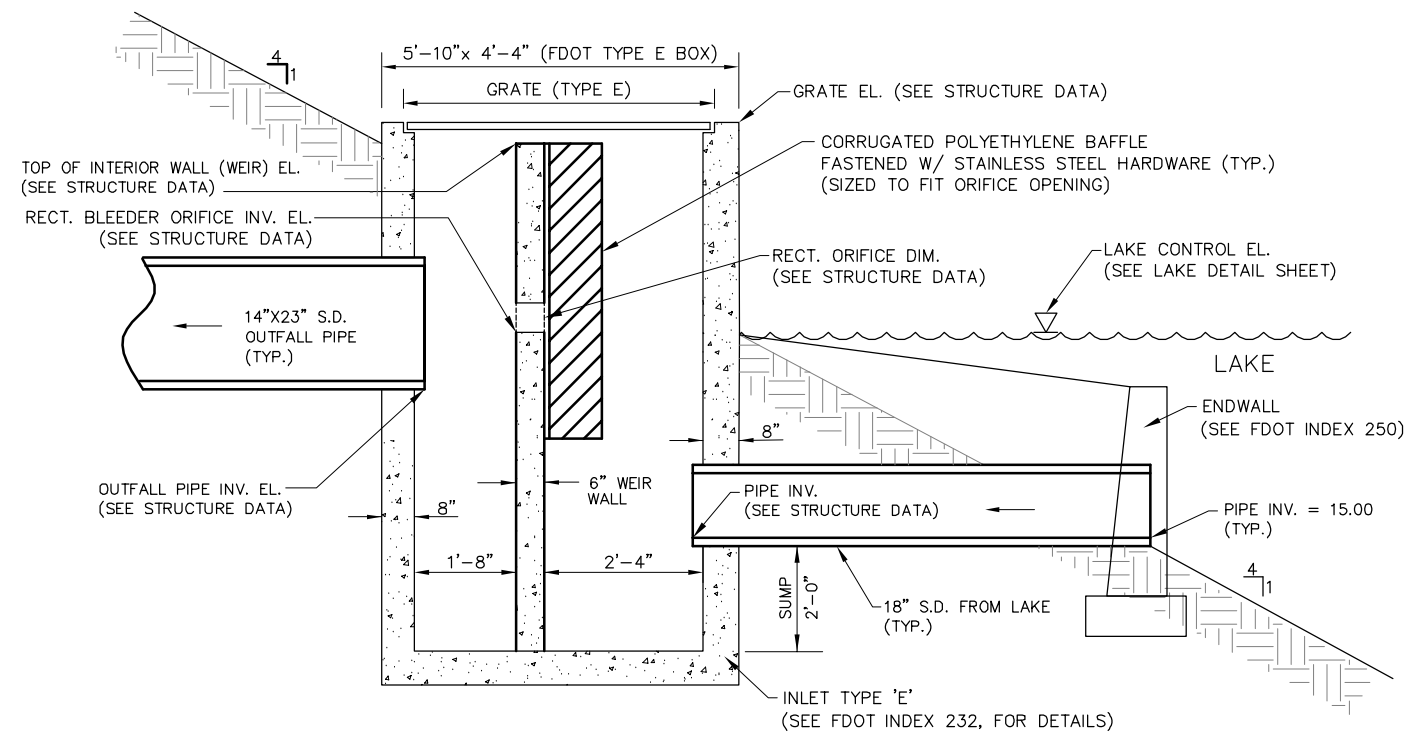
**PLAN VIEW**



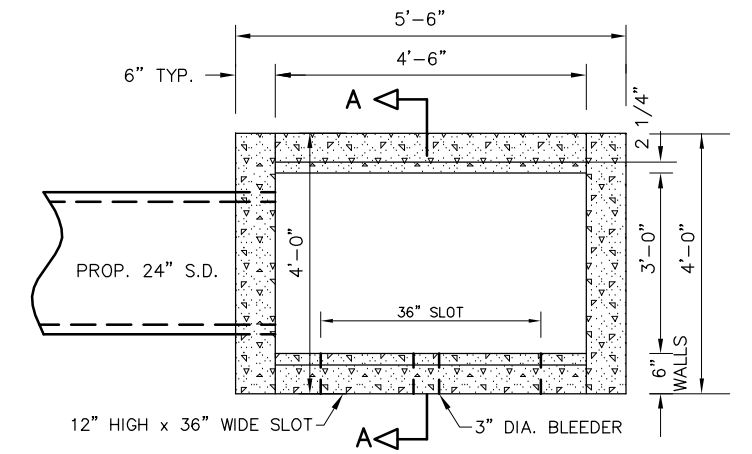
**SECTION BB**



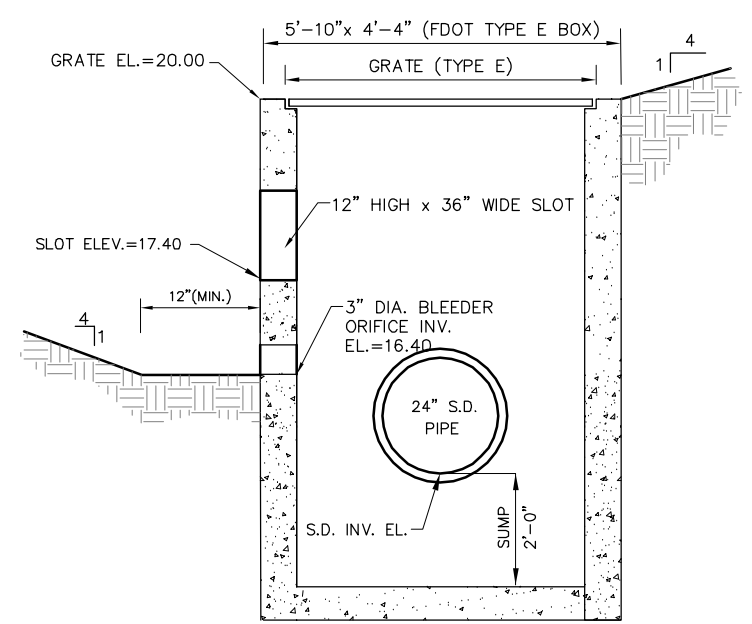
**SECTION AA  
STRUCTURE BOTTOM FDOT TYPE E  
CONTROL STRUCTURE DETAIL**  
N.T.S.



**TYPICAL CROSS SECTION AT LAKE**  
N.T.S.



**PLAN VIEW**  
N.T.S.



**CROSS SECTION A-A**  
INLET TYPE 'E'  
(SEE FDOT INDEX 232, FOR DETAILS)

**INLET STRUCTURE S-202  
DETAIL**  
(PLAN VIEW DETAIL SHEETS 41 AND 51)  
N.T.S.

**S-202**

STA: 315+29.43 107.09'RT  
(REPLACE EX. SWALE INLET)  
CONST. INLET TYPE "E" MODIFIED  
FDOT INDEX #232  
GRATE = 20.00  
36"W x 12"H SLOT(S) = 17.40  
3" DIA. BLEEDER = 16.40  
INV(W) = 15.75 (PROP)

**CONTROL STRUCTURES AT LAKES "A", "B", "C" & "E"**  
(LAKE PLAN VIEW SHEETS 60-64)

**CS-A1**

STA: 161+54.38 376.30'RT  
CONST. INLET TYPE "E" MODIFIED  
FDOT INDEX #232  
GRATE = 22.05  
TOP OF WALL (WEIR) EL. = 21.55  
RECT. NOTCH 0.25'H X 0.88'W  
RECT. NOTCH INVERT EL. = 19.00  
INV(S) = 16.00 (PROP)  
INV(N) = 15.50 (PROP)  
SUMP = 13.50

**CS-B1**

STA: 221+21.33 710.34'LT  
CONST. INLET TYPE "E" MODIFIED  
FDOT INDEX #232  
GRATE = 22.25  
TOP OF WALL (WEIR) EL. = 21.75  
RECT. NOTCH 0.25'H X 0.80'W  
RECT. NOTCH INVERT EL. = 19.00  
INV(S) = 18.95 (PROP)  
INV(N) = 15.50 (PROP)  
SUMP = 13.50

**CS-C1**

STA: 254+82.73 724.64'LT  
CONST. INLET TYPE "E" MODIFIED  
FDOT INDEX #232  
GRATE = 21.60  
TOP OF WALL (WEIR) EL. = 21.08  
RECT. NOTCH 0.42'H X 2.46'W  
RECT. NOTCH INVERT EL. = 19.00  
INV(W) = 18.95 (PROP)  
INV(E) = 15.50 (PROP)  
SUMP = 13.50

**CS-E1**

STA: 298+95.31 386.94'LT  
CONST. INLET TYPE "E" MODIFIED  
FDOT INDEX #232  
GRATE = 21.80  
TOP OF WALL (WEIR) EL. = 21.26  
RECT. NOTCH 0.25'H X 0.60'W  
RECT. NOTCH INVERT EL. = 19.00  
INV(W) = 18.95 (PROP)  
INV(E) = 15.50 (PROP)  
SUMP = 13.50

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**CONTROL STRUCTURE DETAILS**

SHEET **68** OF **121**

DATE OF SURVEY : 3/18/02 - 6/14/02  
 SURVEY MADE BY : UNIVERSAL ENGINEERING SCIENCES, INC.  
 SUBMITTED BY : LINDSEY WEAVER, P.E.

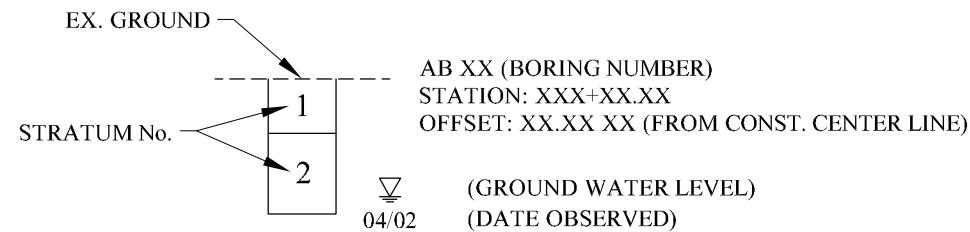
SOIL SURVEY FOR ROADWAY ALIGNMENT  
 THREE OAKS PARKWAY EXTENSION  
 LEE COUNTY, FLORIDA

ORGANIC CONTENT				SIEVE ANALYSIS RESULTS (% PASS)						ATTERBERG LIMITS (%)				CORROSION TEST RESULTS					
STRATUM NO.	NO. OF TEST	% ORGANIC	MOISTURE CONTENT	NO. OF TEST	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TEST	LIQUID LIMITS	PLASTIC INDEX	AASHTO GROUP	DESCRIPTION	NO. OF TEST	RESISTIVITY ohms om	CHLORIDE ppm	SULFATES ppm	pH
1	6	-	5 - 24	6	100	97 - 100	76 - 96	28 - 94	1 - 4	-	-	-	A-3	FINE SAND WITH VARYING AMOUNTS OF ROOTS AND ROCKS .	3	17,000 - 52,000	45 - 60	5	5.8 - 8.3
2	11	-	13 - 53	11	60 - 100	24 - 97	22 - 98	15 - 94	5 - 10	-	-	-	A-3 A-2-4 A-2-6	FINE SAND WITH SILT OR CLAY AND VARYING AMOUNTS OF ROCK AND ROOTS.	-	-	-	-	-
3	2	-	13 - 15	2	47 - 53	34 - 41	29 - 35	24 - 46	18	-	-	-	A-2-4	SILTY FINE SAND WITH LIMEROCK.	-	-	-	-	-
4	1	-	25	1	100	97	87	36	20	-	-	-	A-2-6	CLAYEY FINE SAND WITH VARYING AMOUNTS OF ROCK.	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	MEDIUM TO HARD LIMESTONE ROCK	-	-	-	-	-

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE, MAKE FINAL CHECK AFTER GRADING  
 WATER TABLE ENCOUNTERED IN ALL STRATA

SOIL BORING PROFILE LEGEND



- REFER TO ROADWAY CROSS SECTIONS SHEET FOR LOCATION.
- REFER TO UNIVERSAL ENGINEERING SCIENCES GEOTECHNICAL REPORT FOR ADDITIONAL SOILS INFORMATION.

THE MATERIAL FROM STRATA NUMBER 1 AND 2 APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH INDEX 505. SOME OVERSIZED ROCK PARTICLES (3" AND GREATER) MAY BE PRESENT IN THE MATERIAL EXCAVATED FROM THESE STRATA AND WILL HAVE TO BE REMOVED DURING PLACEMENT.

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 MAY BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USE IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.

THE MATERIAL FROM STRATUM NUMBER 4 ARE CLAYEY, A-2-6 MATERIAL AND SHALL BE USED IN ACCORDANCE WITH INDEX 505.

THE MATERIAL FROM STRATUM NUMBER 5 IS CONTINUOUS CAP ROCK, LENSES OF ROCK OR BOULDERS. DIFFICULTY MAY BE ENCOUNTERED IN EXCAVATING THIS MATERICAL. EXCAVATED MATERIAL WILL LIKELY BE IN THE FORM OF LARGE BOULDERS WHICH WILL NOT BE SUITABLE FOR ROADWAY EMBANKMENT.

P:\CAD\2008\08-372\PL\OTS\SOIL.dwg, 69, 8/20/2009 9:26:52 AM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

90% SUBMITTAL PLANS  
 (AUGUST - 2009)

FL LICENSE No. 24070

PROJ.08-372 DATE:  
 PROJ. MGR. Jack Schrager, PE  
 PROJ. DIR.  
 APPROVED:

AVALON ENGINEERING, INC.  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

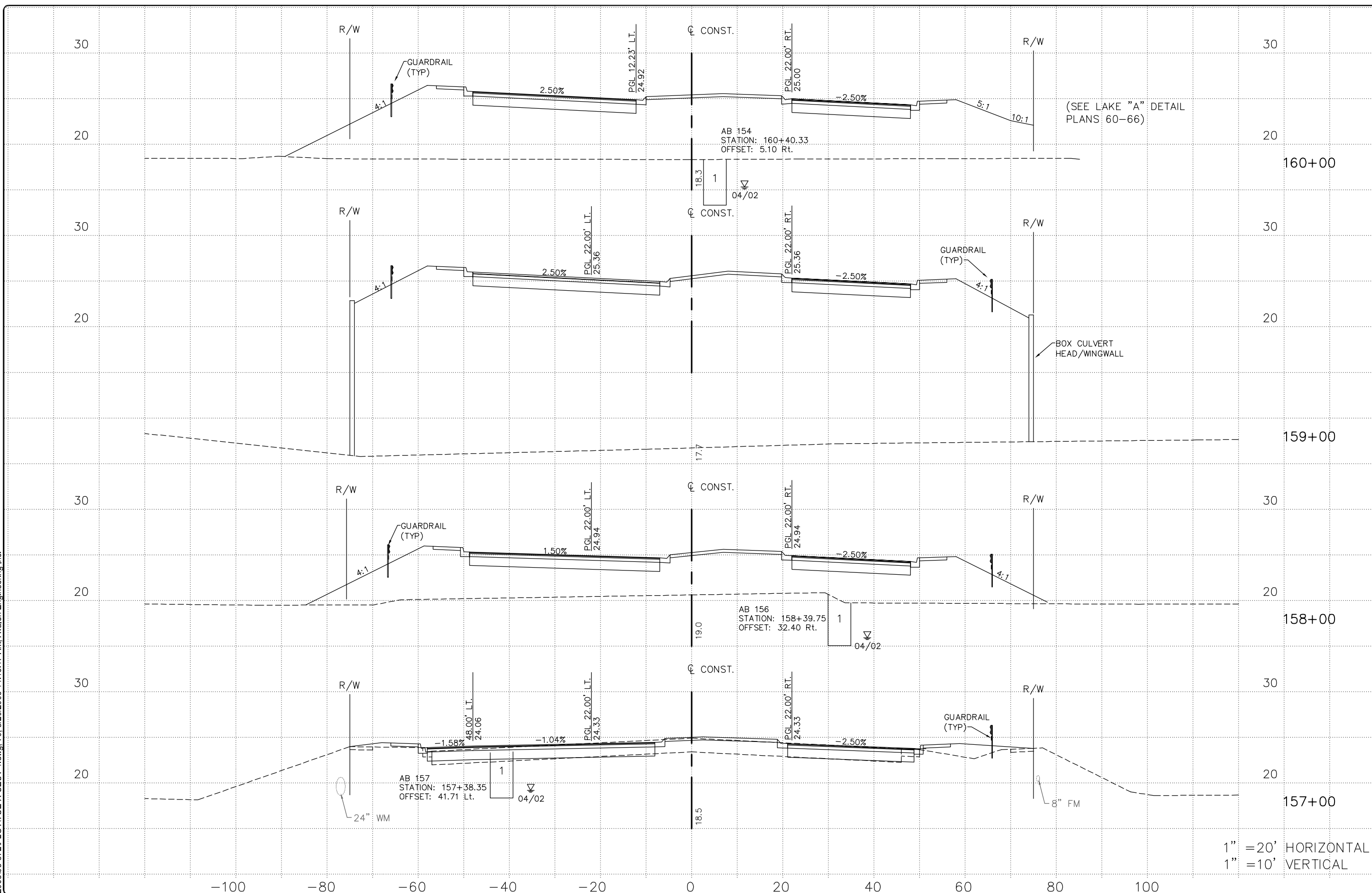
LEE COUNTY DEPARTMENT  
 OF  
 TRANSPORTATION  
 (239) 533-8580

THREE OAKS PARKWAY EXTENSION  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

ROADWAY SOIL SURVEY  
 THREE OAKS PKWY EXT.

SHEET  
 69 OF 121

P:\CAD\2008\08-372\PLOT\TOE-X-SECT-1.dwg, 70, 8/20/2009 11:16:17 AM, Avalon Engineering Inc.



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0	0	0	6517
0	0	0	2612
0	0	0	5881
0	0	0	564
209	0	0	1155
113	0	0	60

1" = 20' HORIZONTAL  
1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrage, PE  
PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

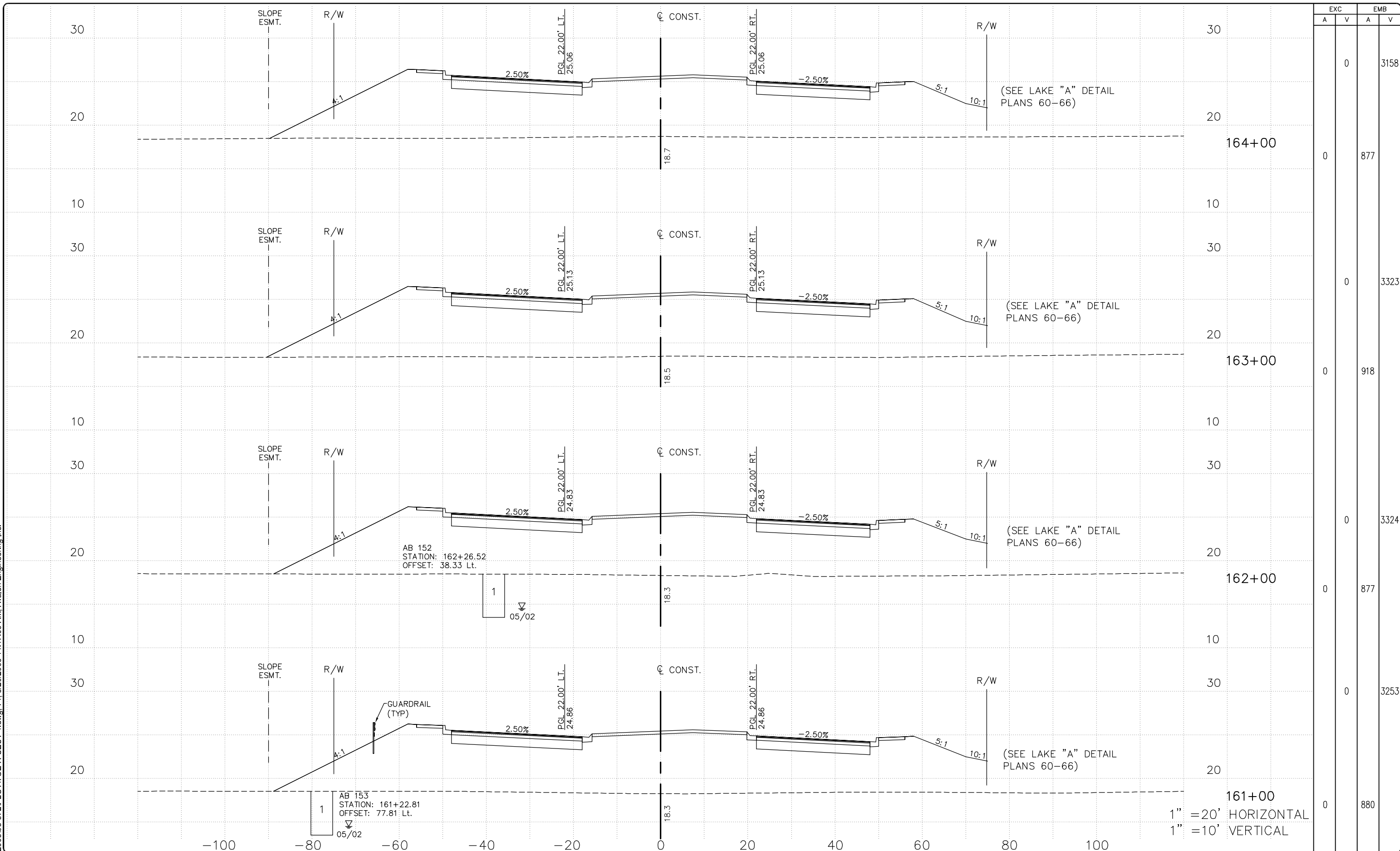
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**70 OF 121**

P:\CAD\2008\08-372\PLOT\TOE-X-SECT-1.dwg, 71, 8/20/2009 11:17:09 AM, Avalon Engineering Inc.



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0	0	0	3323
0	0	0	918
0	0	0	3324
0	0	0	877
0	0	0	3253
0	0	0	880

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schragger, PE  
PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

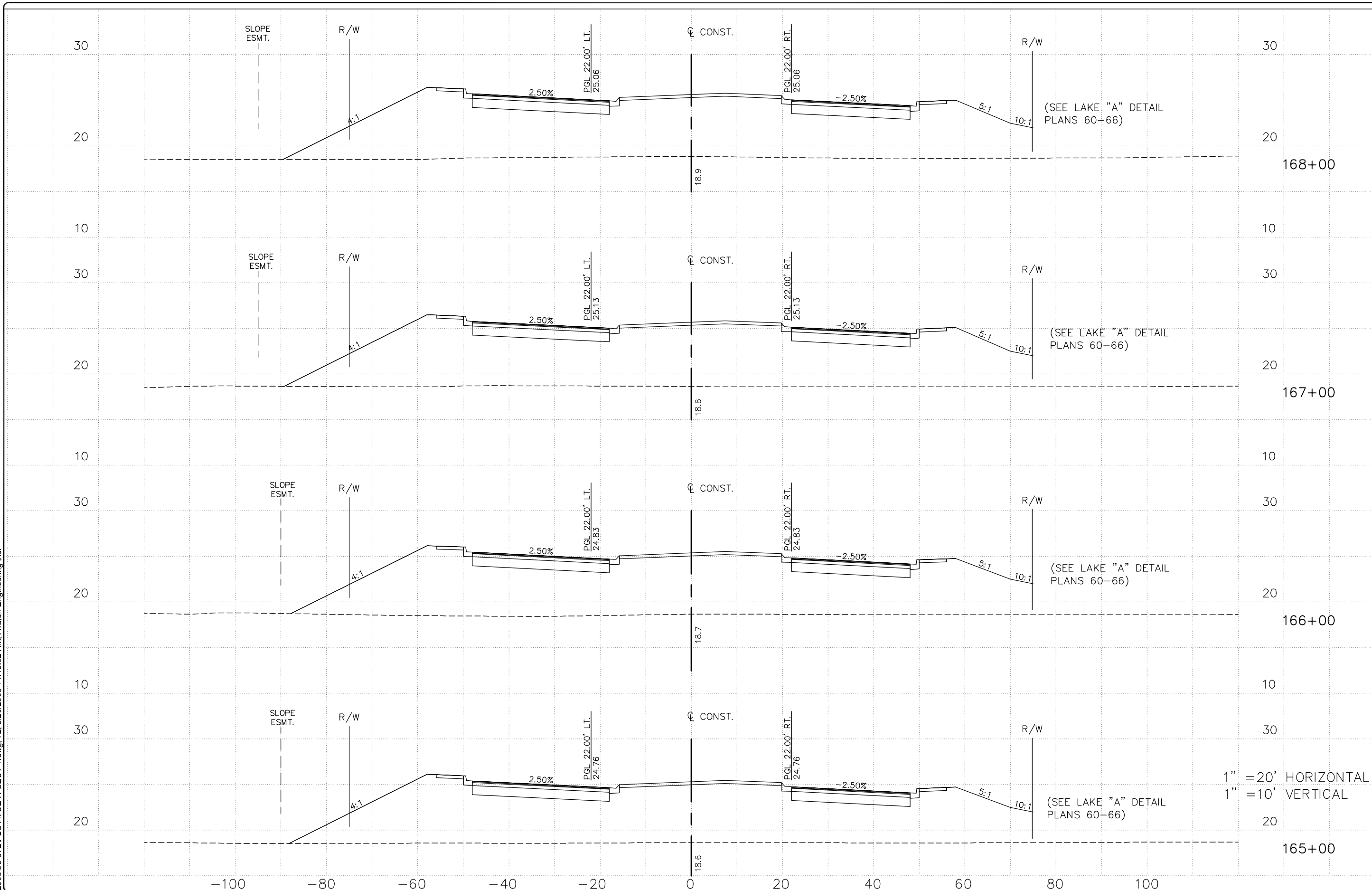
**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**71 OF 121**

1" = 20' HORIZONTAL  
1" = 10' VERTICAL

P:\CAD\2008\08-372\PLOT\TOE-X-SECT-1.dwg, 72, 8/20/2009 11:18:02 AM, Avalon Engineering Inc.



1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

EXC		EMB	
A	V	A	V
0	0	0	3004
0	0	0	862
0	0	0	3225
0	0	0	880
0	0	0	3188
0	0	0	842
0	0	0	3094
0	0	0	829

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
 (AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
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 2503 DEL PRADO BLVD, SUITE 200  
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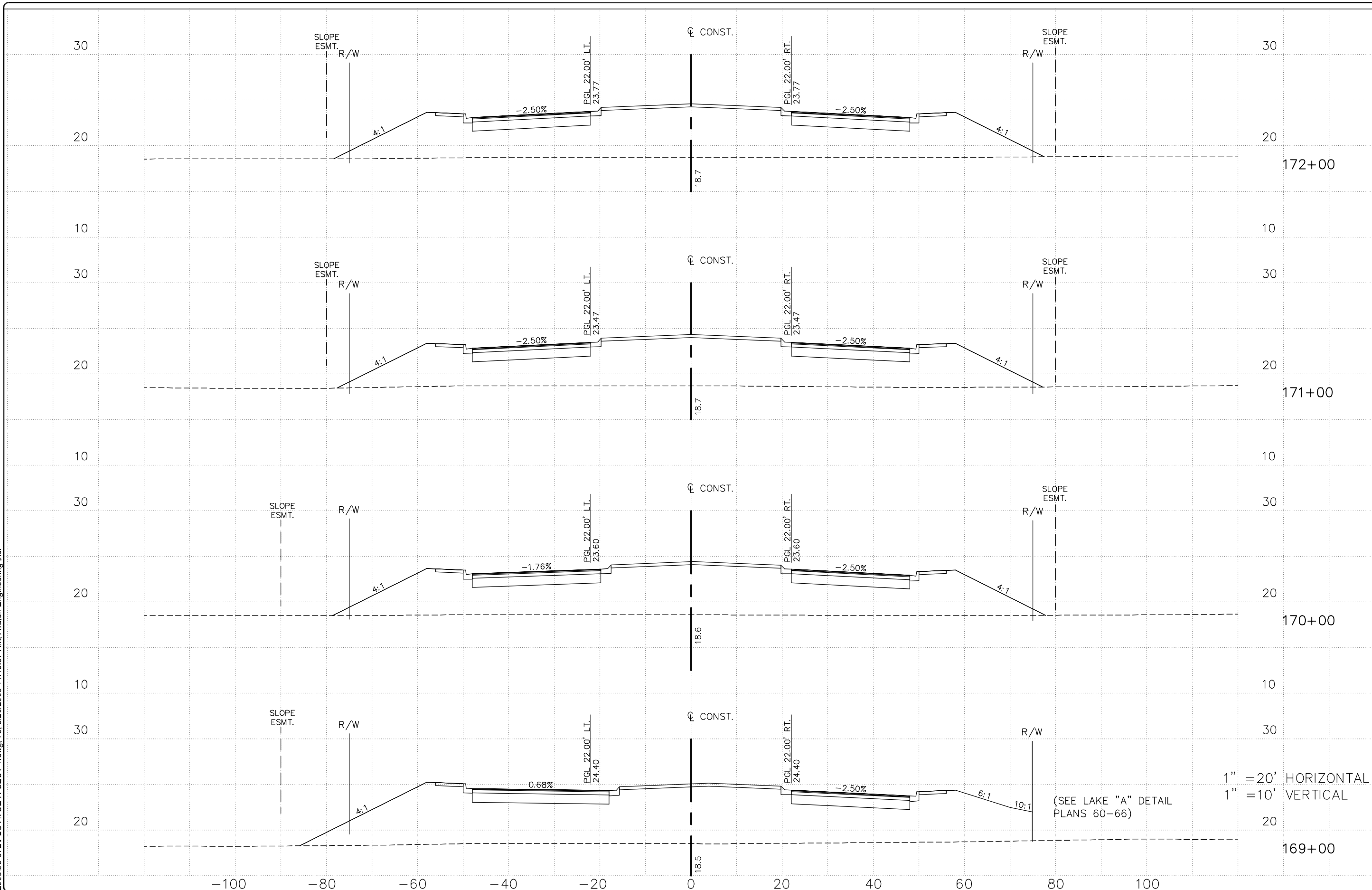
**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**72 OF 121**



P:\CAD\2008\08-372\2\1\TTOE-X-SECT-1.dwg, 73, 8/20/2009 11:18:57 AM, Avalon Engineering Inc.



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0	0	0	2121
0	0	0	556
0	0	0	2116
0	0	0	587
0	0	0	2495
0	0	0	761

1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

(SEE LAKE "A" DETAIL PLANS 60-66)

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
 (AUGUST - 2009)

FL LICENSE No. 24070

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 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

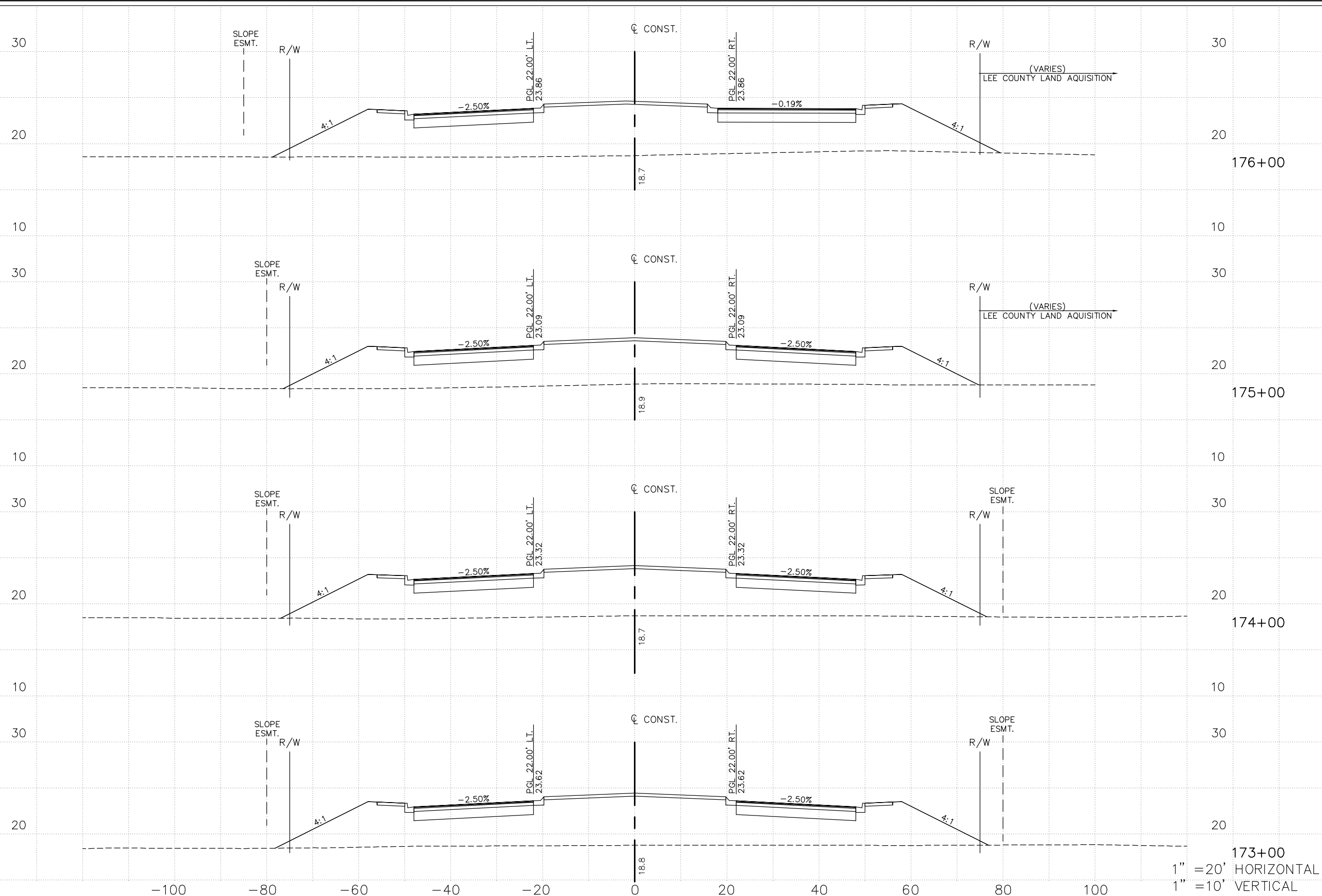
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**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**73 OF 121**

P:\CAD\2008\08-372\PLOT\TOE-X-SECT-1.dwg, 74, 8/20/2009 11:19:53 AM, Avalon Engineering Inc.



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0	0	0	1894
0	0	0	537
0	0	0	2038
0	0	0	564

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
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PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

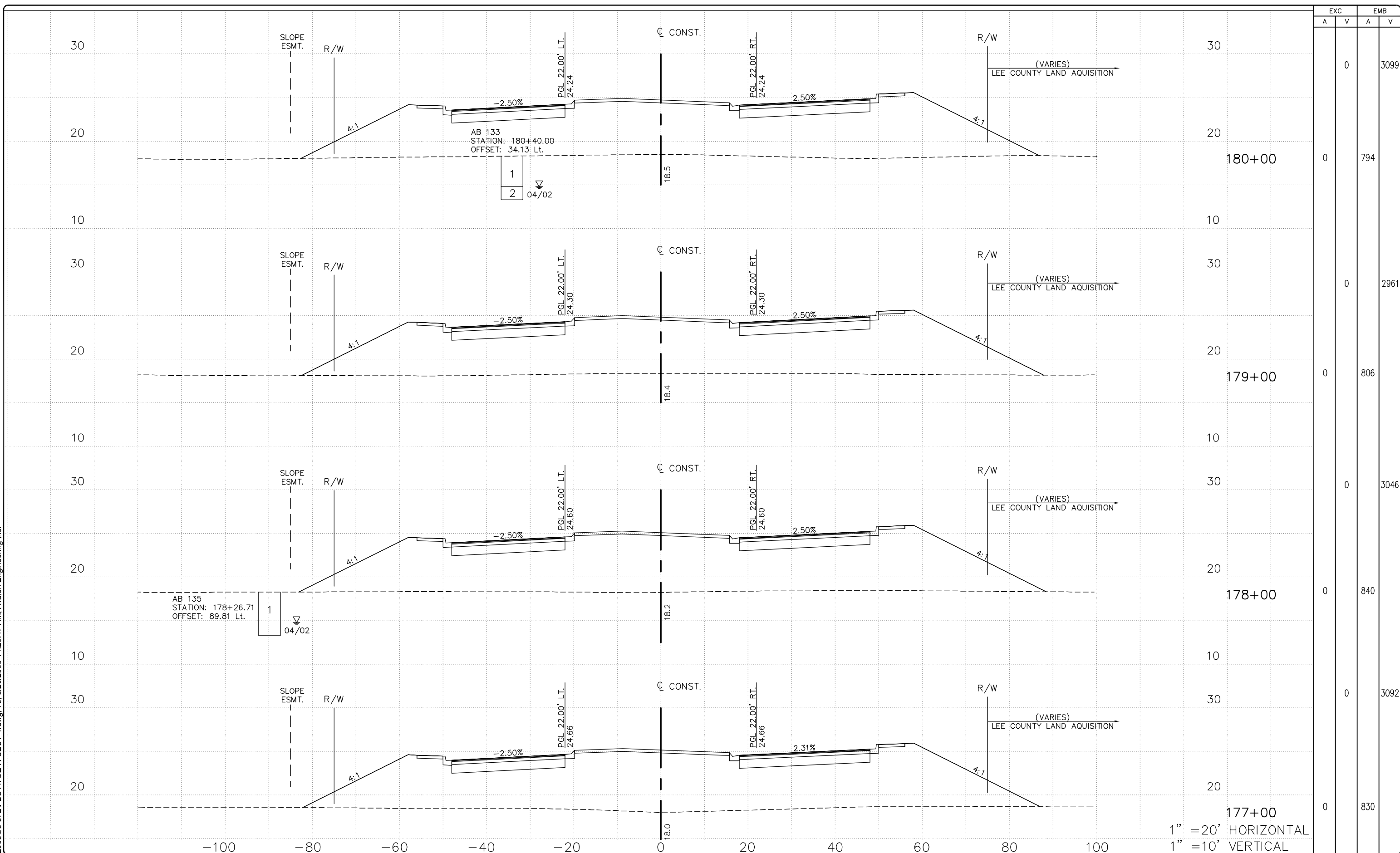
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**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**74 OF 121**

P:\CAD\2008\08-372\PLOT\TOE-X-SECT-1.dwg, 75, 8/20/2009 11:20:47 AM, Avalon Engineering Inc.



1" = 20' HORIZONTAL  
1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
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CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

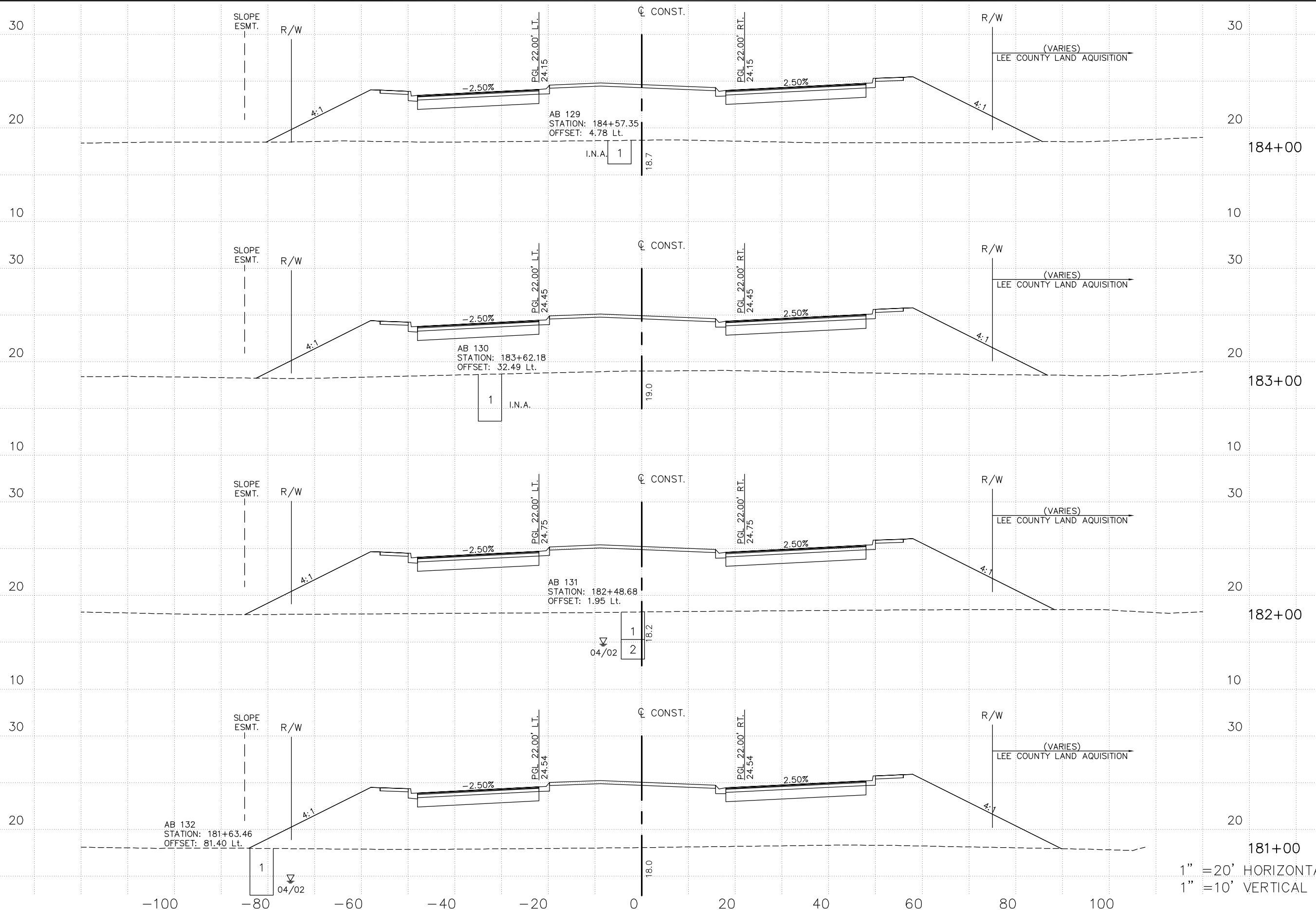
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**75 OF 121**

P:\CAD\2008\08-372\2\1\TOE-X-SECT-1.dwg, 76, 8/20/2009 11:21:44 AM, Avalon Engineering Inc.



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0	0	0	880
0	0	0	3258
0	0	0	880

1" = 20' HORIZONTAL  
1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
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**90% SUBMITTAL PLANS**  
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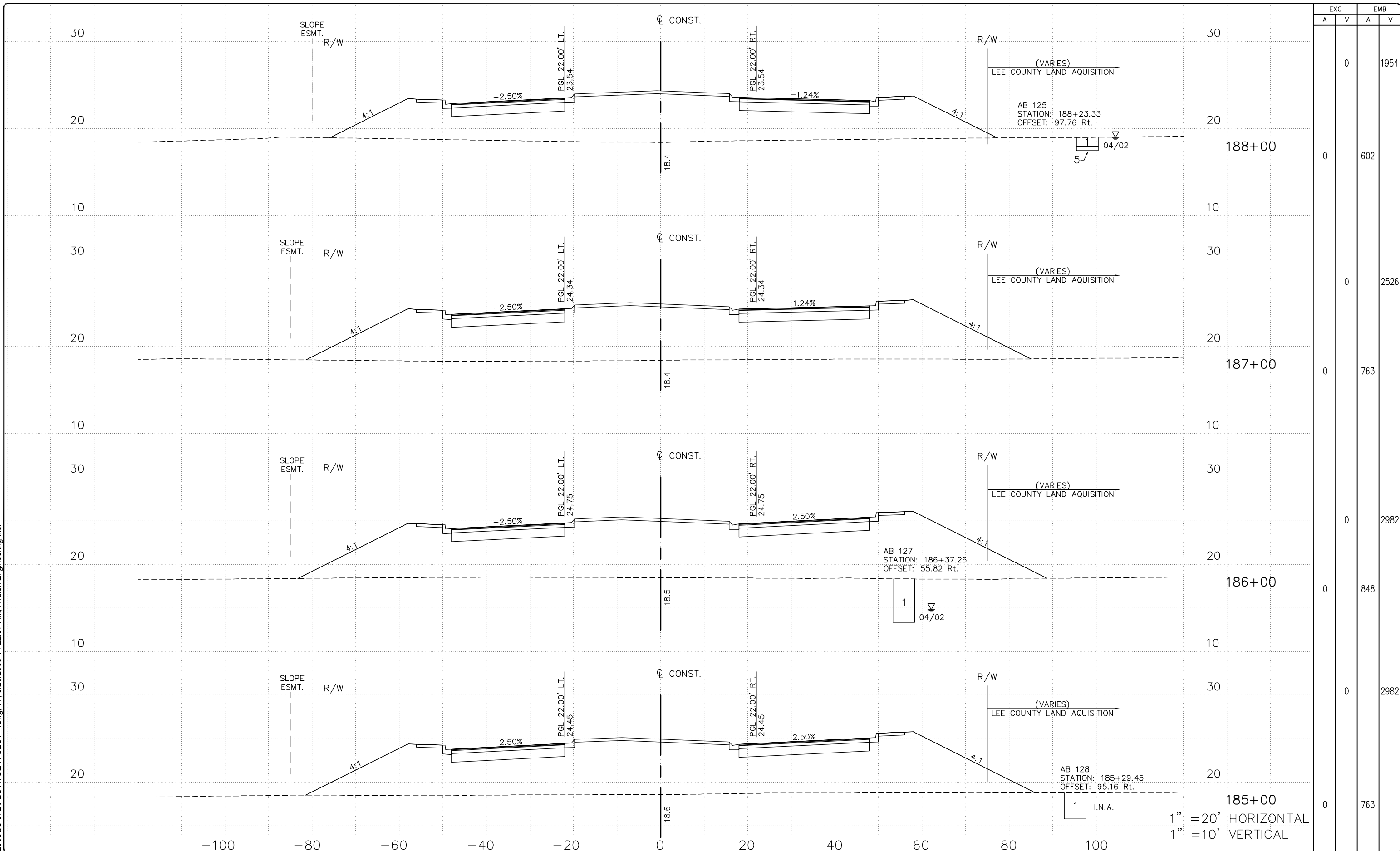
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
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**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**76 OF 121**

P:\CAD\2008\08-372\2PLOT\TOE-X-SECT-1.dwg, 7/7 8/20/2009 11:22:37 AM, Avalon Engineering Inc.



EXC		EMB	
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0	0	0	2526
0	0	0	763
0	0	0	2982
0	0	0	848
0	0	0	2982
0	0	0	763

1" = 20' HORIZONTAL  
1" = 10' VERTICAL

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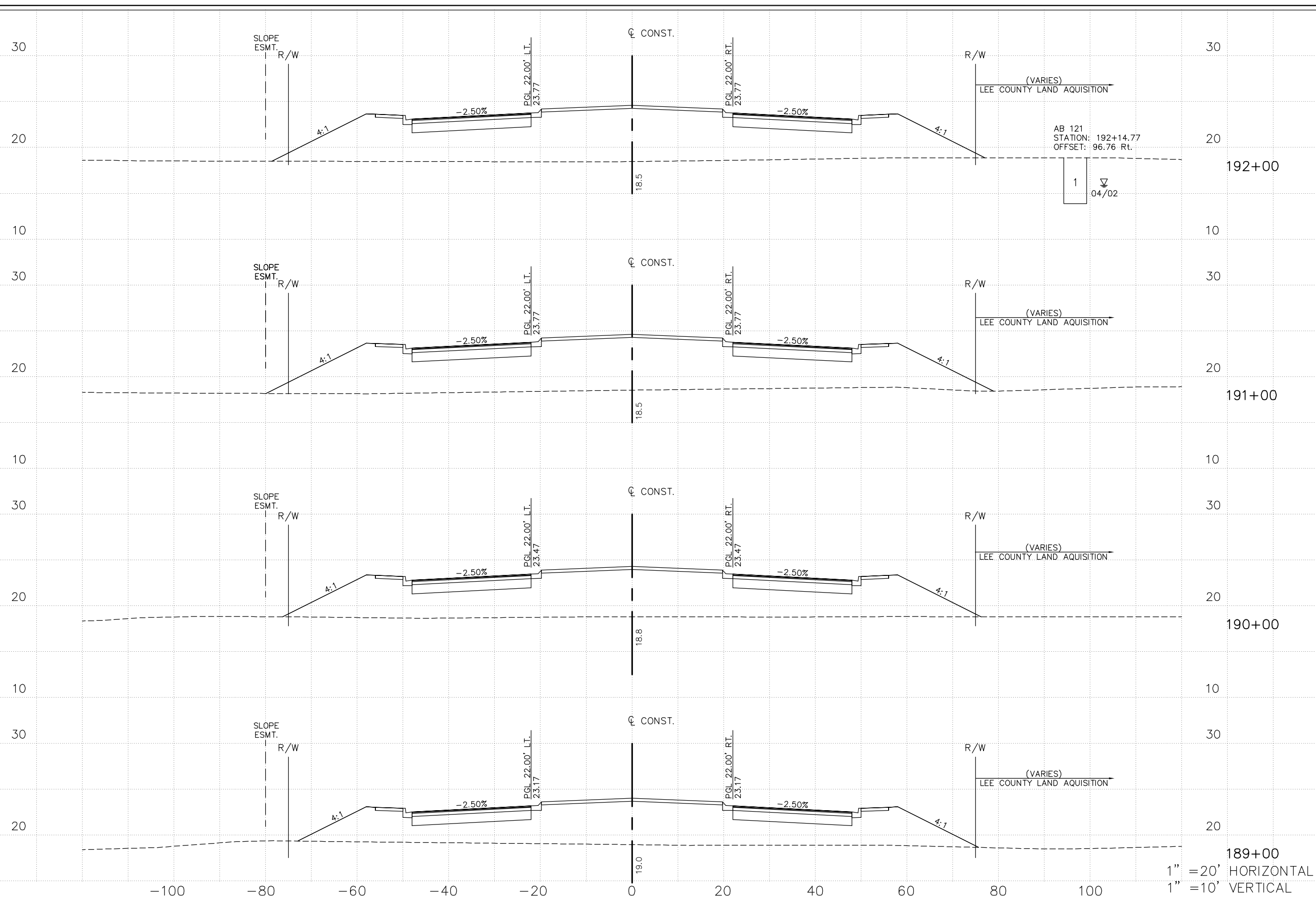
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
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**THREE OAKS PARKWAY EXTENSION**  
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LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET **77** OF **121**

P:\CAD\2008\08-372\2\2\TTOE-X-SECT-1.dwg, 78, 8/20/2009 11:23:32 AM, Avalon Engineering Inc.



EXC		EMB	
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0	0	0	2280
0	0	0	625
0	0	0	2144
0	0	0	533
0	0	0	1827
0	0	0	454

1" = 20' HORIZONTAL  
1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
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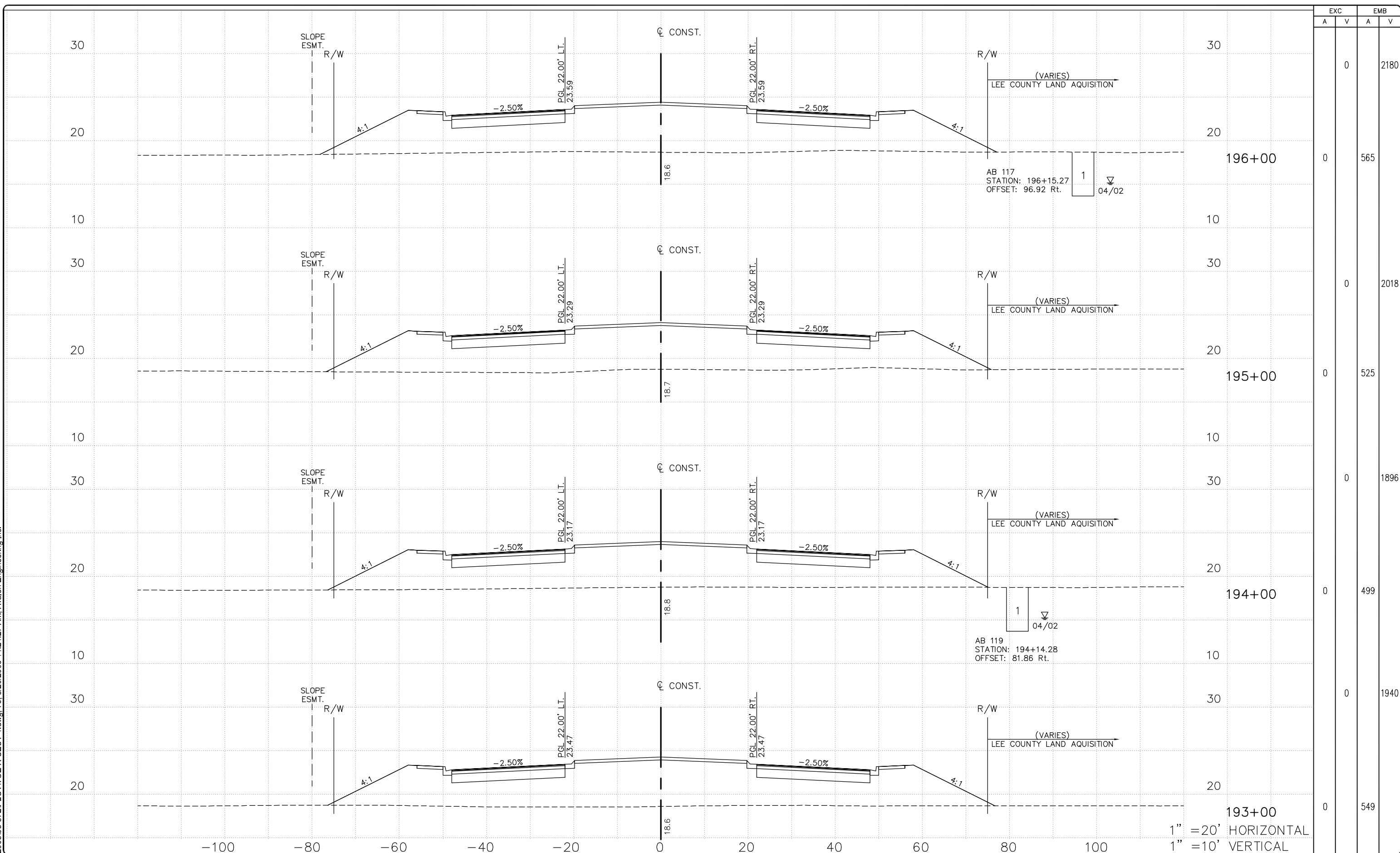
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**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**78 OF 121**

P:\CAD\2008\08-372\PLOT\TOE-X-SECT-1.dwg, 79, 8/20/2009 11:24:27 AM, Avalon Engineering Inc.



EXC		EMB	
A	V	A	V
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0	0	0	565
0	0	0	2018
0	0	0	525
0	0	0	1896
0	0	0	499
0	0	0	1940
0	0	0	549

1" = 20' HORIZONTAL  
1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

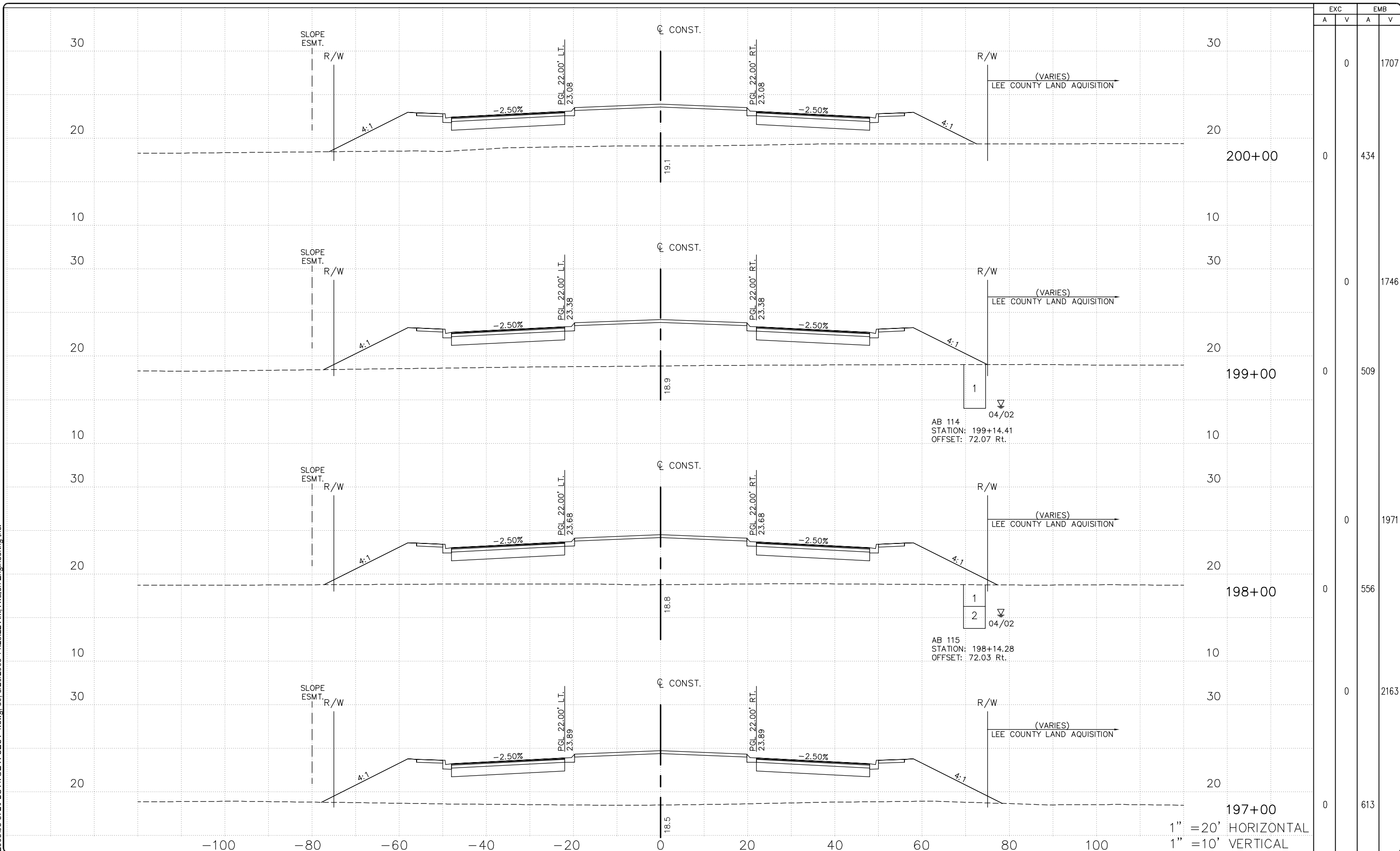
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**79 OF 121**

P:\CAD\2008\08-372\PLOT\TOE-X-SECT-1.dwg, 8/20/2009 11:25:22 AM, Avalon Engineering Inc.



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0	0	0	434
0	0	0	1746
0	0	0	509
0	0	0	1971
0	0	0	556
0	0	0	2163
0	0	0	613

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
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PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

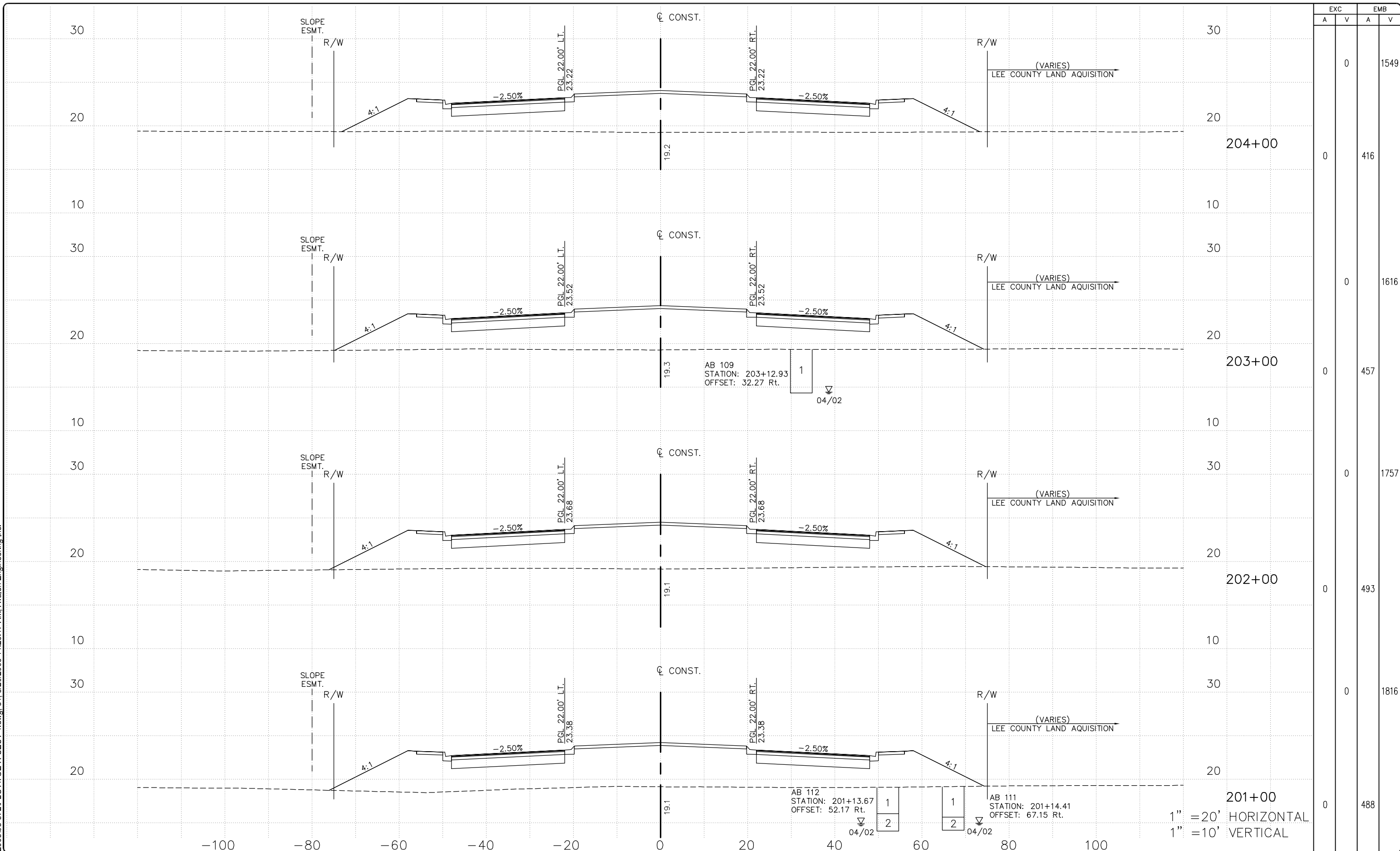
**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**80 OF 121**



P:\CAD\2008\08-372\PLOT\TOE-X-SECT-1.dwg, 8/20/2009 11:26:17 AM, Avalon Engineering Inc.



EXC		EMB	
A	V	A	V
0	0	0	1549
0	0	0	416
0	0	0	1616
0	0	0	457
0	0	0	1757
0	0	0	493
0	0	0	1816
0	0	0	488

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
 PROJ. MGR. Jack Schrager, PE  
 PROJ. DIR.  
 APPROVED:

**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

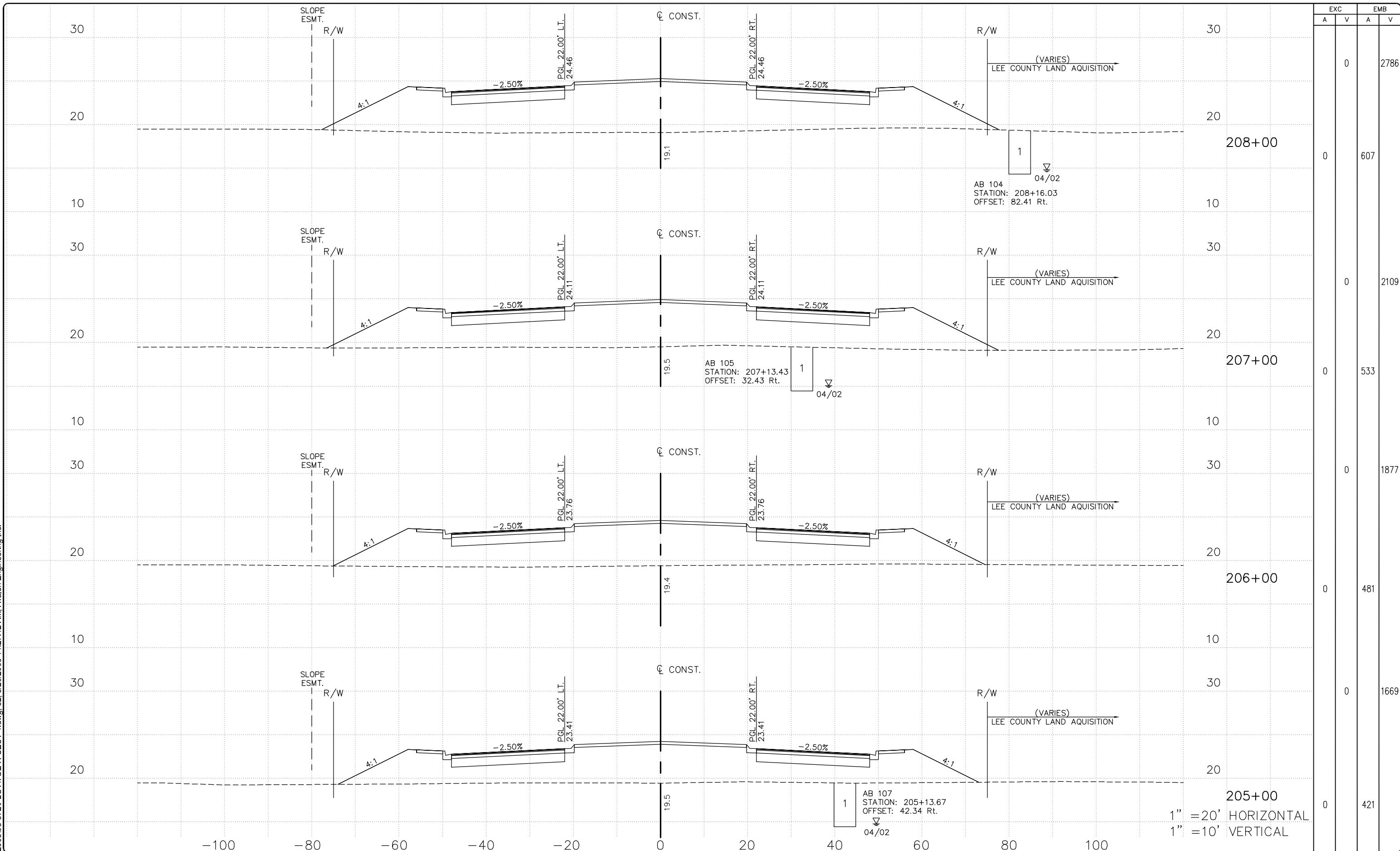
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 (239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**81 OF 121**

P:\CAD\2008\08-372\PLOT\TOE-X-SECT-1.dwg, 8/20/2009 11:27:12 AM, Avalon Engineering Inc.



EXC		EMB	
A	V	A	V
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0	0	0	607
0	0	0	2109
0	0	0	533
0	0	0	1877
0	0	0	481
0	0	0	1669
0	0	0	421

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

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2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

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(239) 533-8580

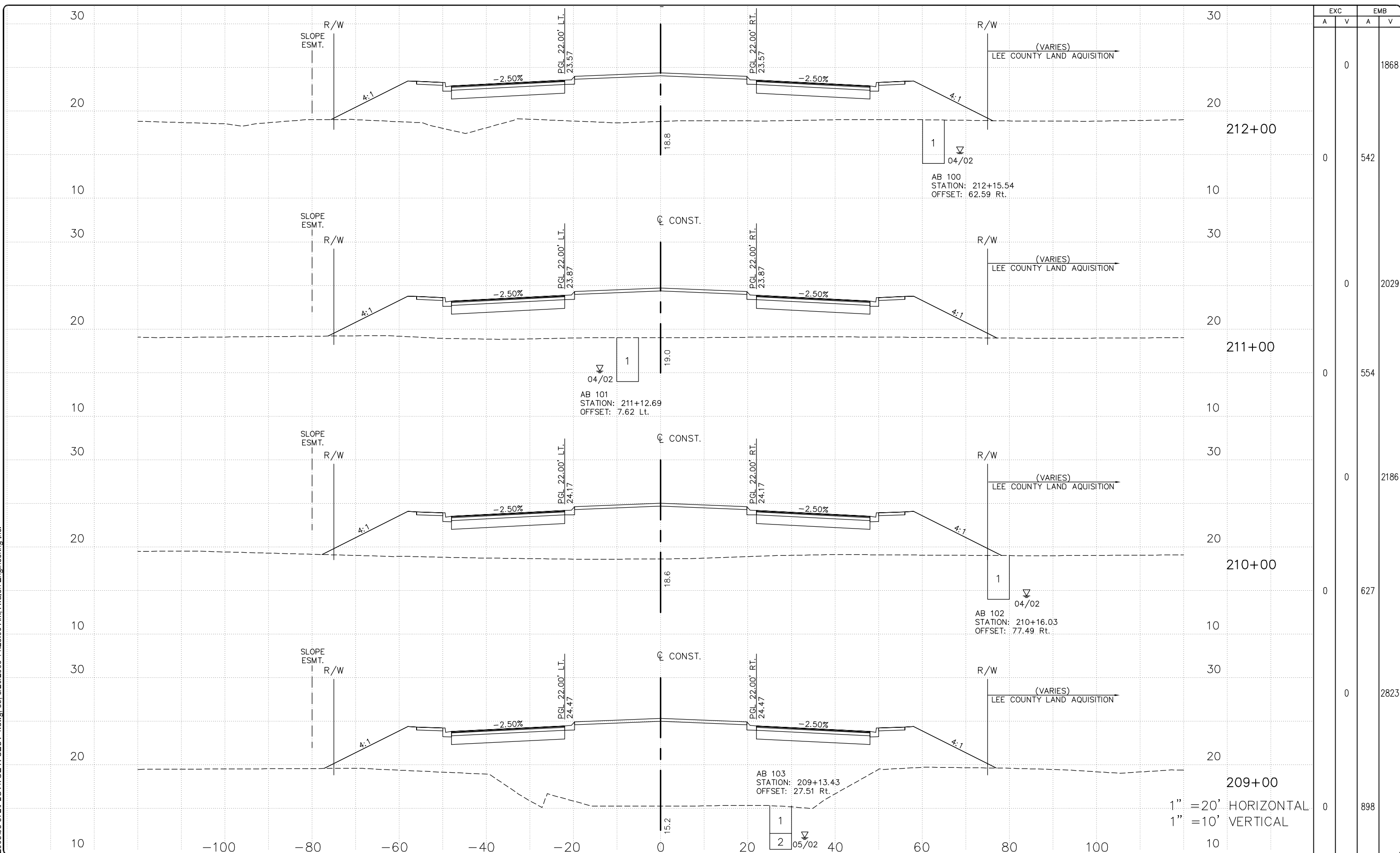
**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**82 OF 121**

1" = 20' HORIZONTAL  
1" = 10' VERTICAL

P:\CAD\2008\08-372\2\1\TTOE-X-SECT-1.dwg, 83, 8/20/2009 11:28:06 AM, Avalon Engineering Inc.



EXC		EMB	
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0	0	1868	0
0	542	0	2029
0	554	0	2186
0	627	0	2823
0	898	0	898

1" = 20' HORIZONTAL  
1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schragger, PE  
PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

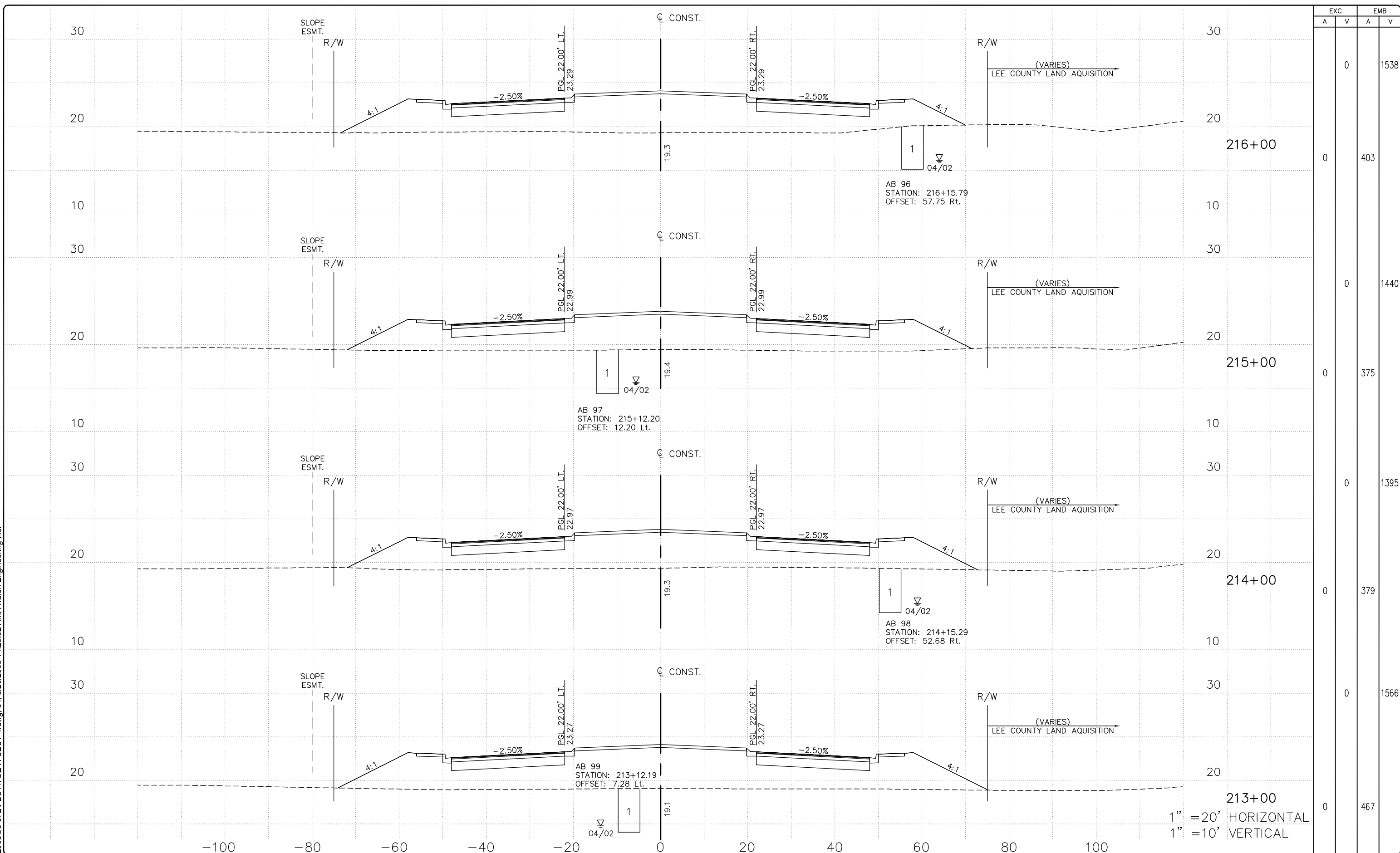
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(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**83 OF 121**

P:\CAD\2008\08-372\PLOT\TOE-X-SECT-1.dwg, 8/20/2009 11:29:02 AM, Avalon Engineering Inc.



EXC		EMB	
A	V	A	V
0	0	0	1538
0	0	0	403
0	0	0	1440
0	0	0	375
0	0	0	1395
0	0	0	379
0	0	0	1566
0	0	0	467

1" = 20' HORIZONTAL  
1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

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PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

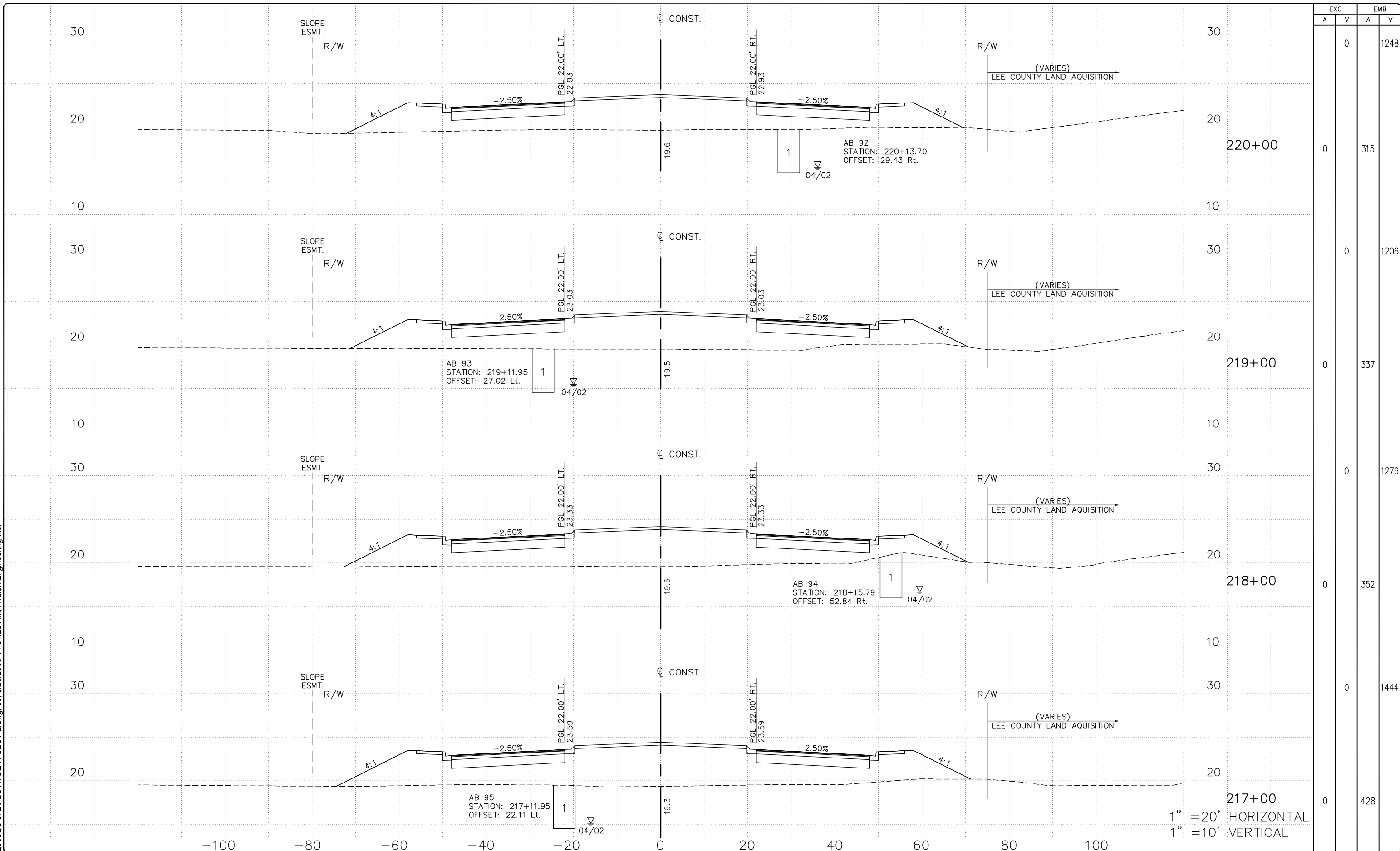
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**84 OF 121**

P:\CAD\2008\08-372\PLOT\TOE-X-SECT-2.dwg, 8/20/2009 11:31:25 AM, Avalon Engineering Inc.



EXC		EMB	
A	V	A	V
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0	0	0	315
0	0	0	1206
0	0	0	337
0	0	0	1276
0	0	0	352
0	0	0	1444
0	0	0	428

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
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 PROJ. DIR.  
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**AVALON ENGINEERING, INC.**  
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 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

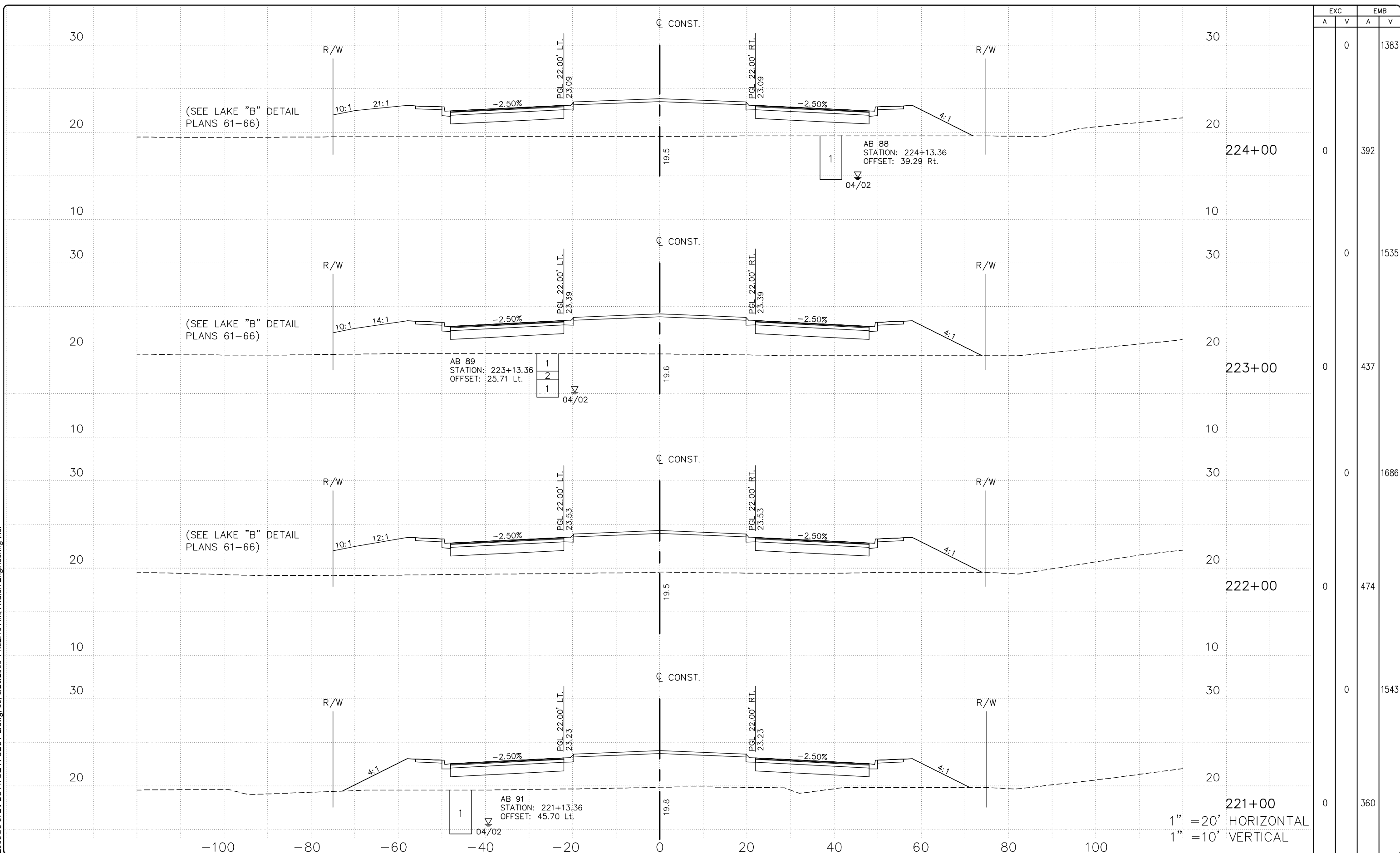
**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**85 OF 121**

1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

P:\CAD\2008\08-372\PLT\TOE-X-SECT-2.dwg, 8/20/2009 11:32:16 AM, Avalon Engineering Inc.



EXC		EMB	
A	V	A	V
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0	0	392	1535
0	0	437	1686
0	0	474	1543
0	0	360	0

221+00  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
 (AUGUST - 2009)

FL LICENSE No. 24070

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 2503 DEL PRADO BLVD, SUITE 200  
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 FBPE #3128 (239) 573-2077

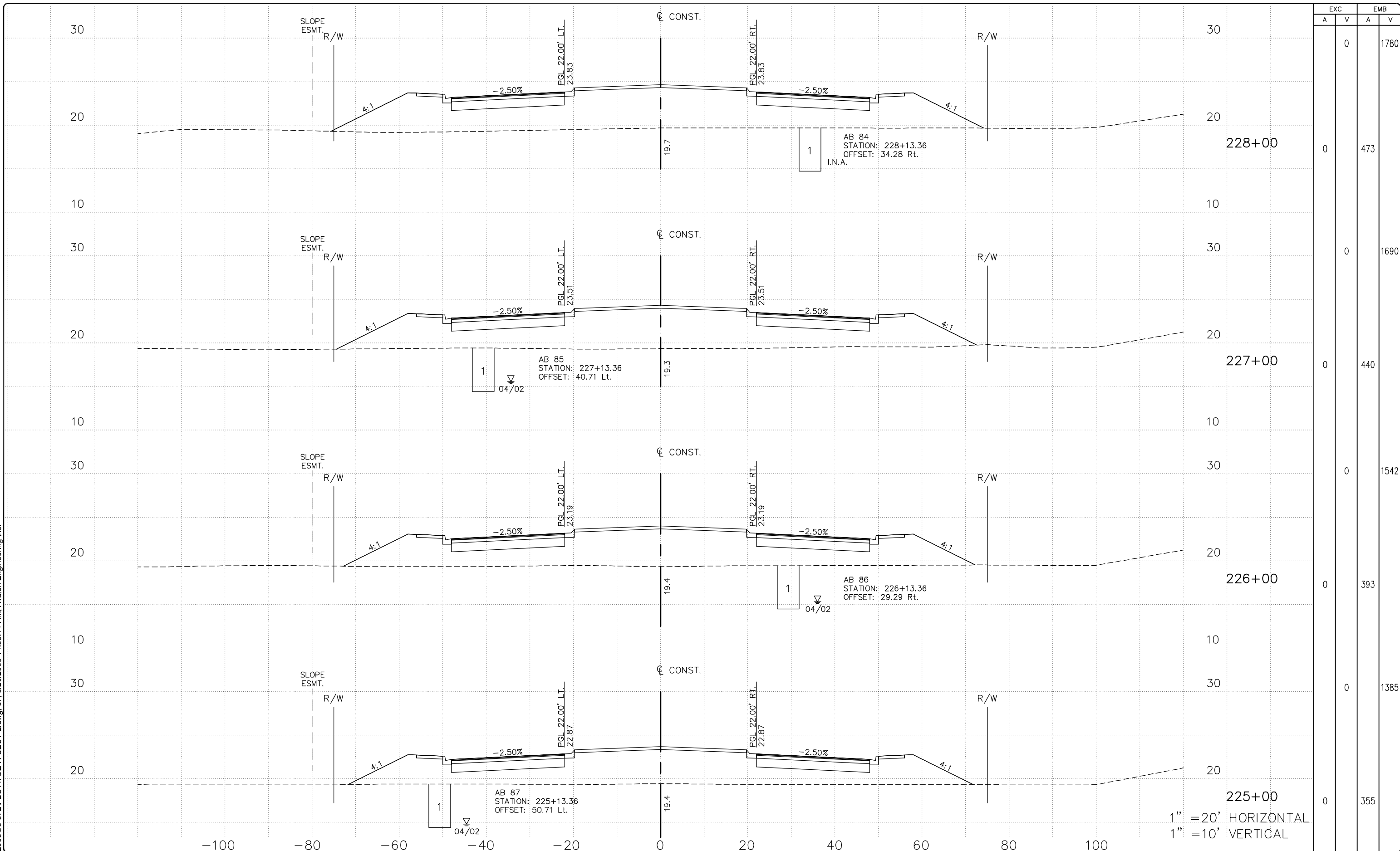
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
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**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**86 OF 121**

P:\CAD\2008\08-372\PLOTT0E-X-SECT-2.dwg, 8/20/2009 11:33:11 AM, Avalon Engineering Inc.



EXC		EMB	
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0	0	0	473
0	0	0	1690
0	0	0	440
0	0	0	1542
0	0	0	393
0	0	0	1385
0	0	0	355

1" = 20' HORIZONTAL  
1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

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PROJ. DIR.  
APPROVED:

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2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

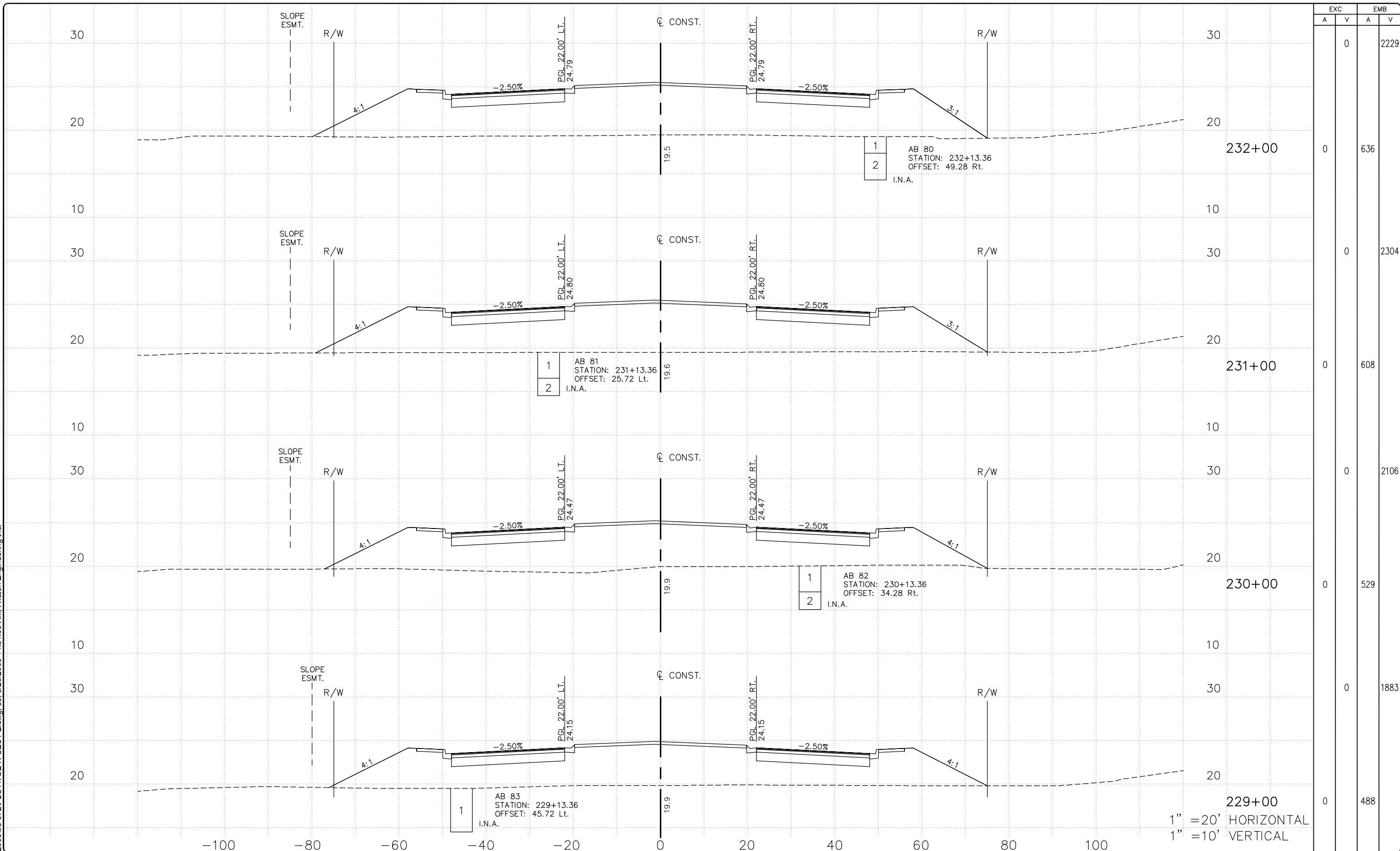
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
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**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**87 OF 121**

P:\CAD\2008\08-372\PLOT\TOE-X-SECT-2.dwg, 8/20/2009 11:34:06 AM, Avalon Engineering Inc.



EXC		EMB	
A	V	A	V
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0	0	0	636
0	0	0	2304
0	0	0	608
0	0	0	2106
0	0	0	529
0	0	0	1883
0	0	0	488

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
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 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

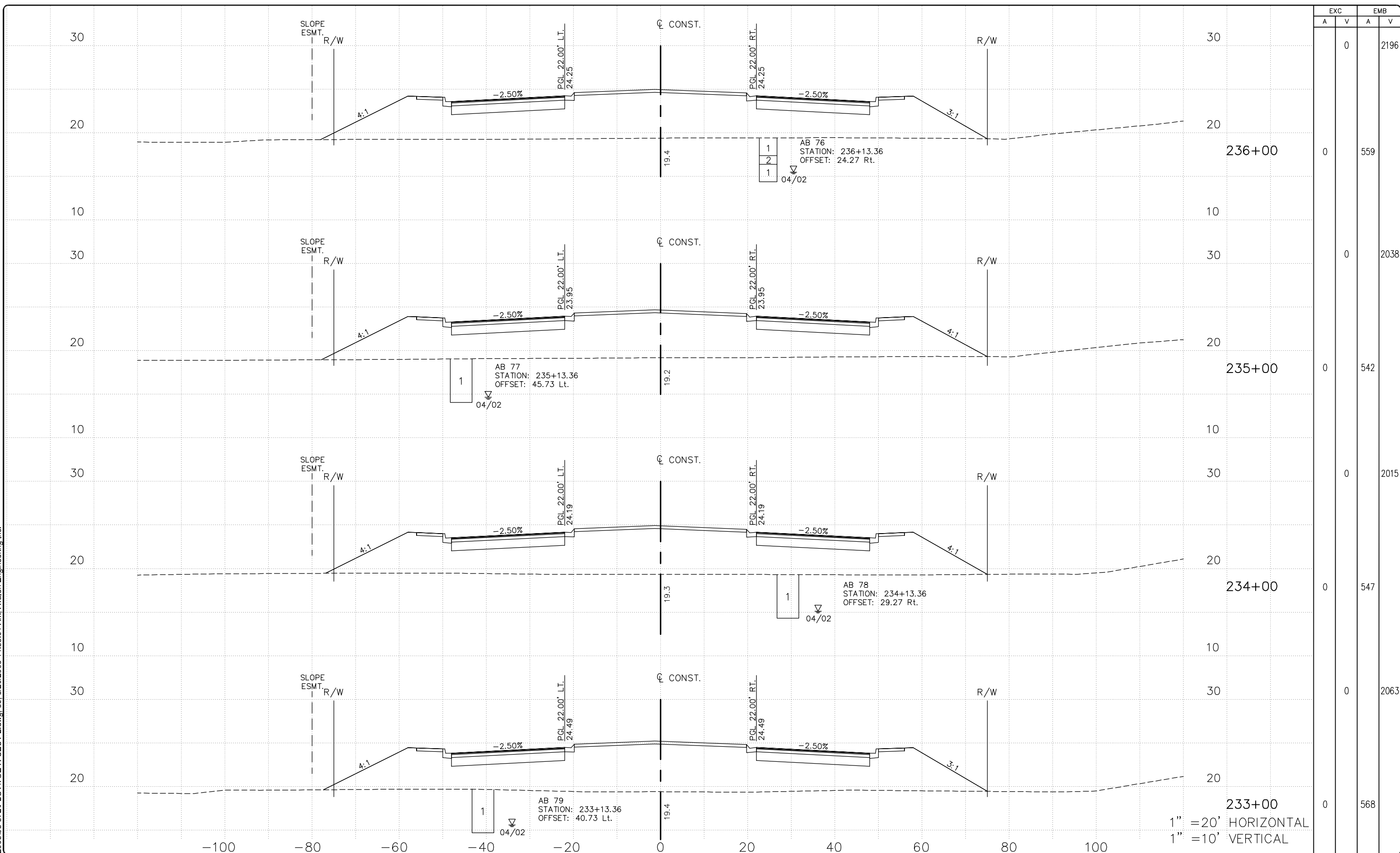
**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**88 OF 121**



P:\CAD\2008\08-372\PLOT\TOE-X-SECT-2.dwg, 89, 8/20/2009 11:35:01 AM, Avalon Engineering Inc.



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0	0	2196	0
0	559	0	2038
0	542	0	2015
0	547	0	2063
0	568	0	0

1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
 (AUGUST - 2009)

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 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

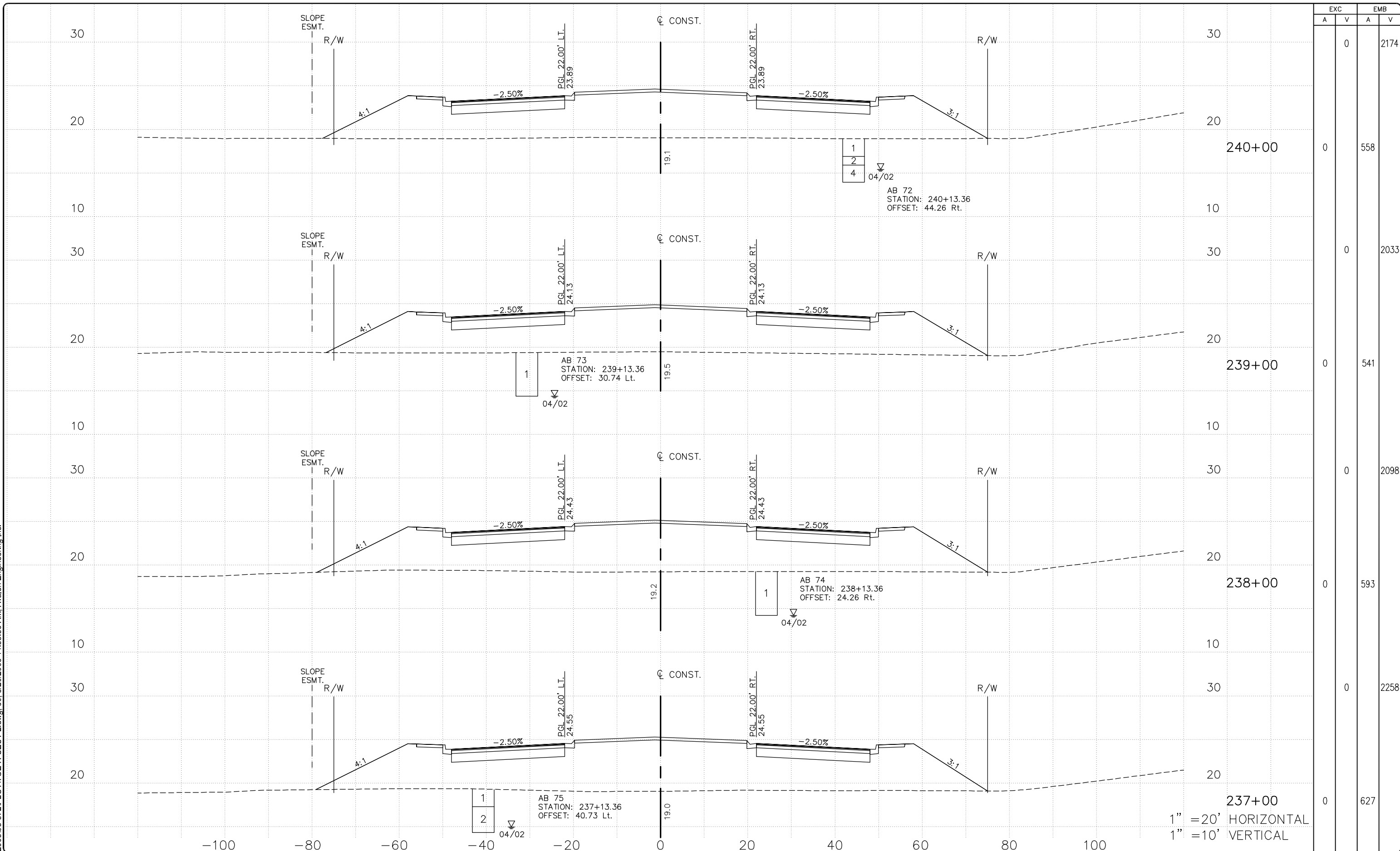
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**89 OF 121**

P:\CAD\2008\08-372\PLOTTOE-X-SECT-2.dwg, 90, 8/20/2009 11:35:56 AM, Avalon Engineering Inc.



EXC		EMB	
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0	0	558	0
0	0	2033	0
0	0	541	0
0	0	2098	0
0	0	593	0
0	0	2258	0
0	0	627	0

1" = 20' HORIZONTAL  
1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

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2503 DEL PRADO BLVD, SUITE 200  
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FBPE #3128 (239) 573-2077

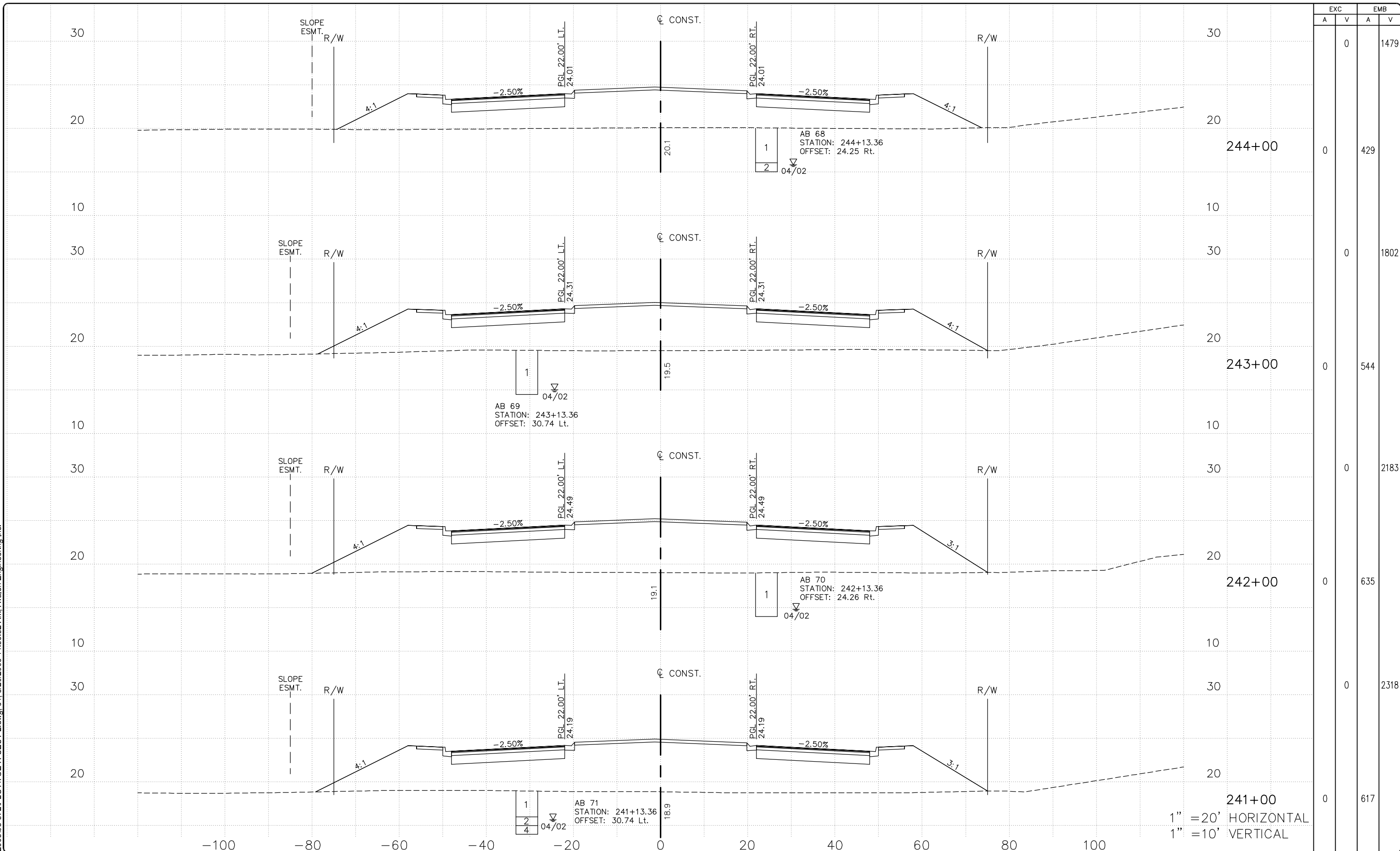
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
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**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**90 OF 121**

P:\CAD\2008\08-372\PLOTTOE-X-SECT-2.dwg, 91, 8/20/2009 11:36:52 AM, Avalon Engineering Inc.



EXC		EMB	
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0	0	0	1802
0	0	0	544
0	0	0	2183
0	0	0	635
0	0	0	2318
0	0	0	617

1" = 20' HORIZONTAL  
1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
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FBPE #3128 (239) 573-2077

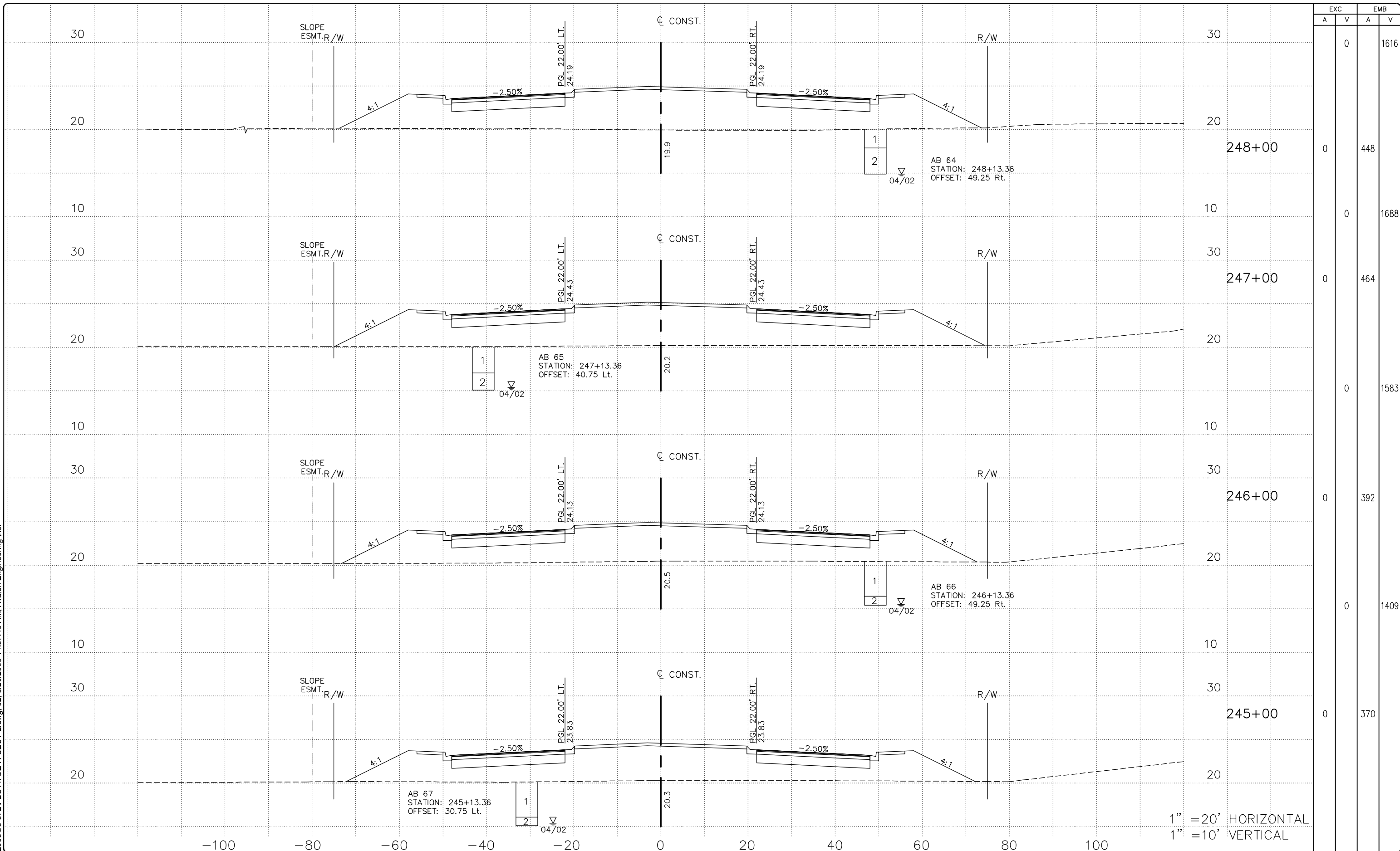
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
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**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**91 OF 121**

P:\CAD\2008\08-372\PLOT\TOE-X-SECT-2.dwg, 92, 8/20/2009 11:37:46 AM, Avalon Engineering Inc.



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0	0	448	0
0	0	1688	0
0	0	464	0
0	0	1583	0
0	0	392	0
0	0	1409	0
0	0	370	0

1" = 20' HORIZONTAL  
1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
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FBPE #3128 (239) 573-2077

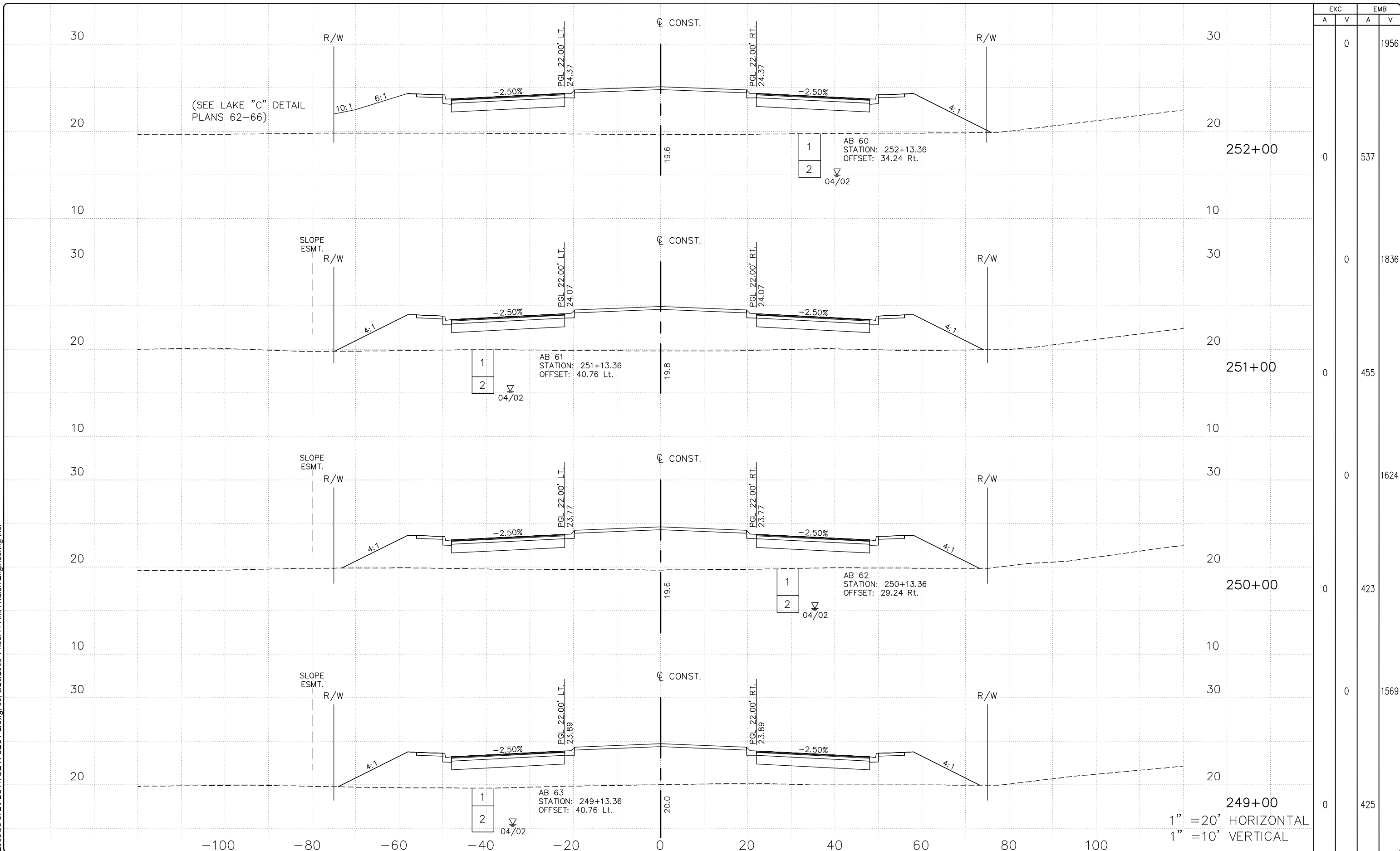
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**92 OF 121**

P:\CAD\2008\08-372\2\1\TTOE-X-SECT-2.dwg, 93, 8/20/2009 11:38:41 AM, Avalon Engineering Inc.



EXC		EMB	
A	V	A	V
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0	537	0	1836
0	455	0	1624
0	423	0	1569
0	425	0	0

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

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 PROJ. DIR.  
 APPROVED:

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 2503 DEL PRADO BLVD, SUITE 200  
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 FBPE #3128 (239) 573-2077

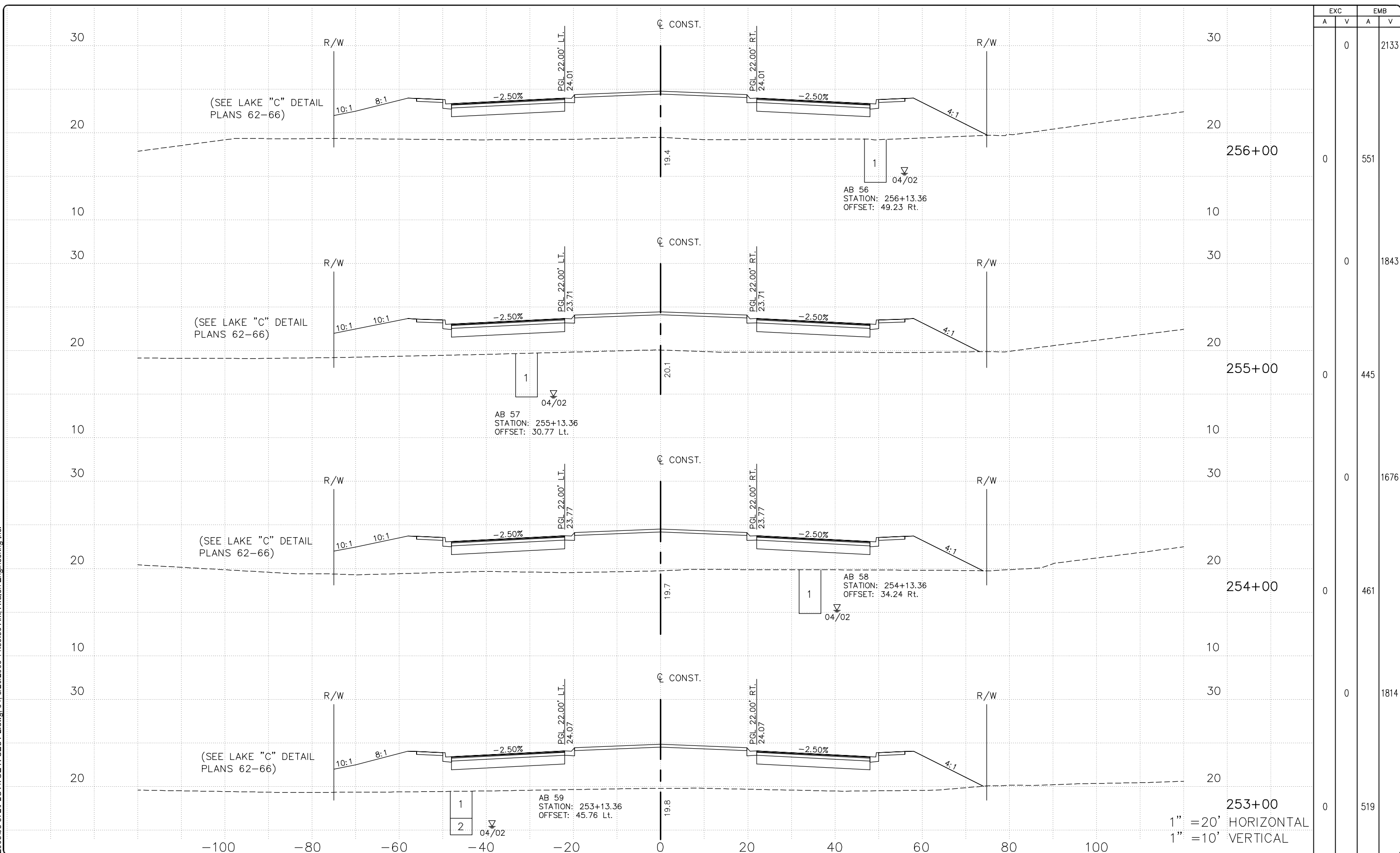
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
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**THREE OAKS PARKWAY EXTENSION**  
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 LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**93 OF 121**

P:\CAD\2008\08-372\2\1\TOE-X-SECT-2.dwg, 94, 8/20/2009 11:39:36 AM, Avalon Engineering Inc.



EXC		EMB	
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0	0	551	0
0	0	1843	0
0	0	445	0
0	0	1676	0
0	0	461	0
0	0	1814	0
0	0	519	0

1" = 20' HORIZONTAL  
1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
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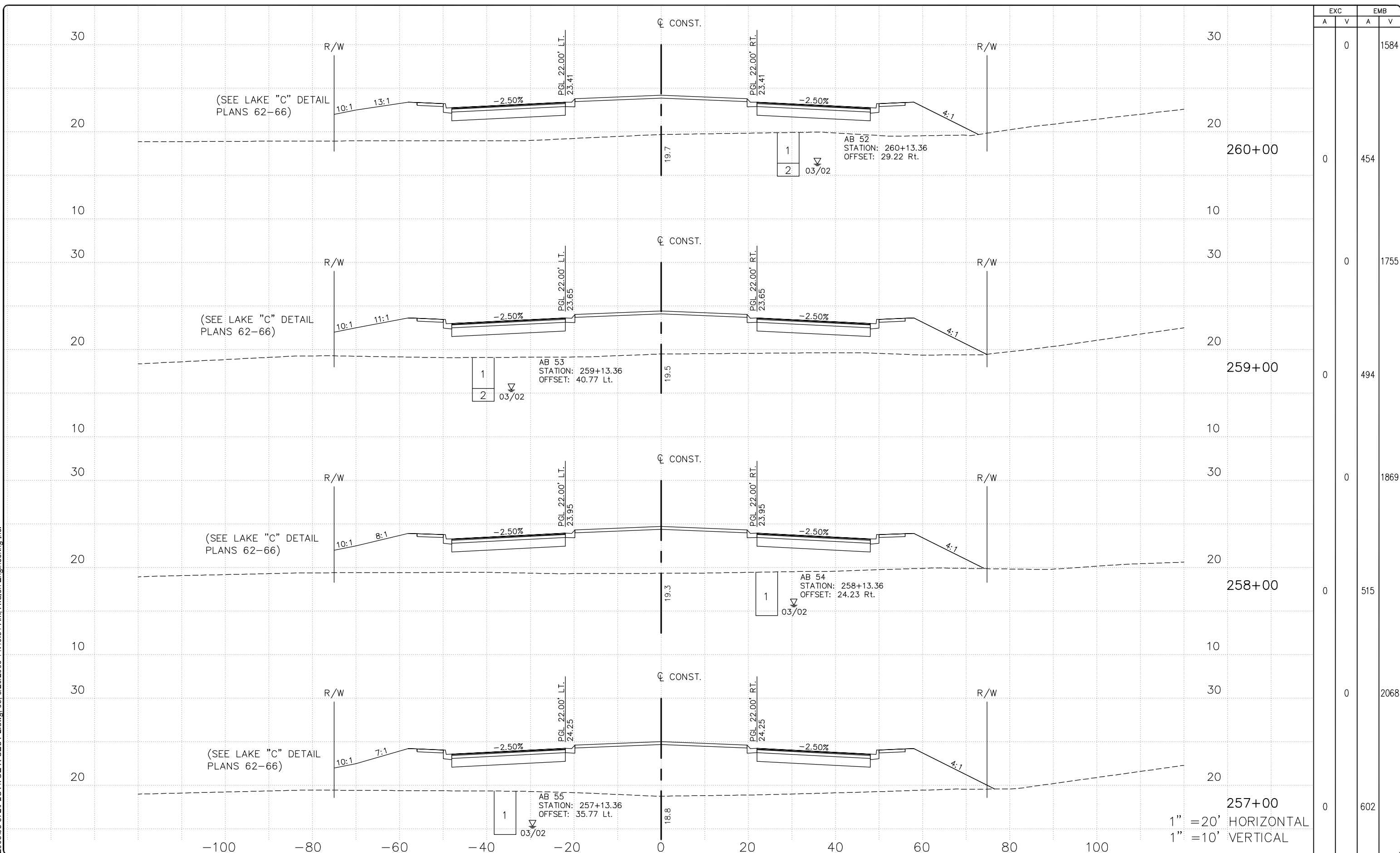
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
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**THREE OAKS PARKWAY EXTENSION**  
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LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**94 OF 121**

P:\CAD\2008\08-372\PLOT\TOE-X-SECT-2.dwg, 95, 8/20/2009 11:40:31 AM, Avalon Engineering Inc.



EXC	EMB	
	A	V
0	0	1584
0	0	454
0	0	1755
0	0	494
0	0	1869
0	0	515
0	0	2068
0	0	602

1" = 20' HORIZONTAL  
1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070  
 PROJ. MGR. Jack Schrage, PE  
 PROJ. DIR.  
 APPROVED:

**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

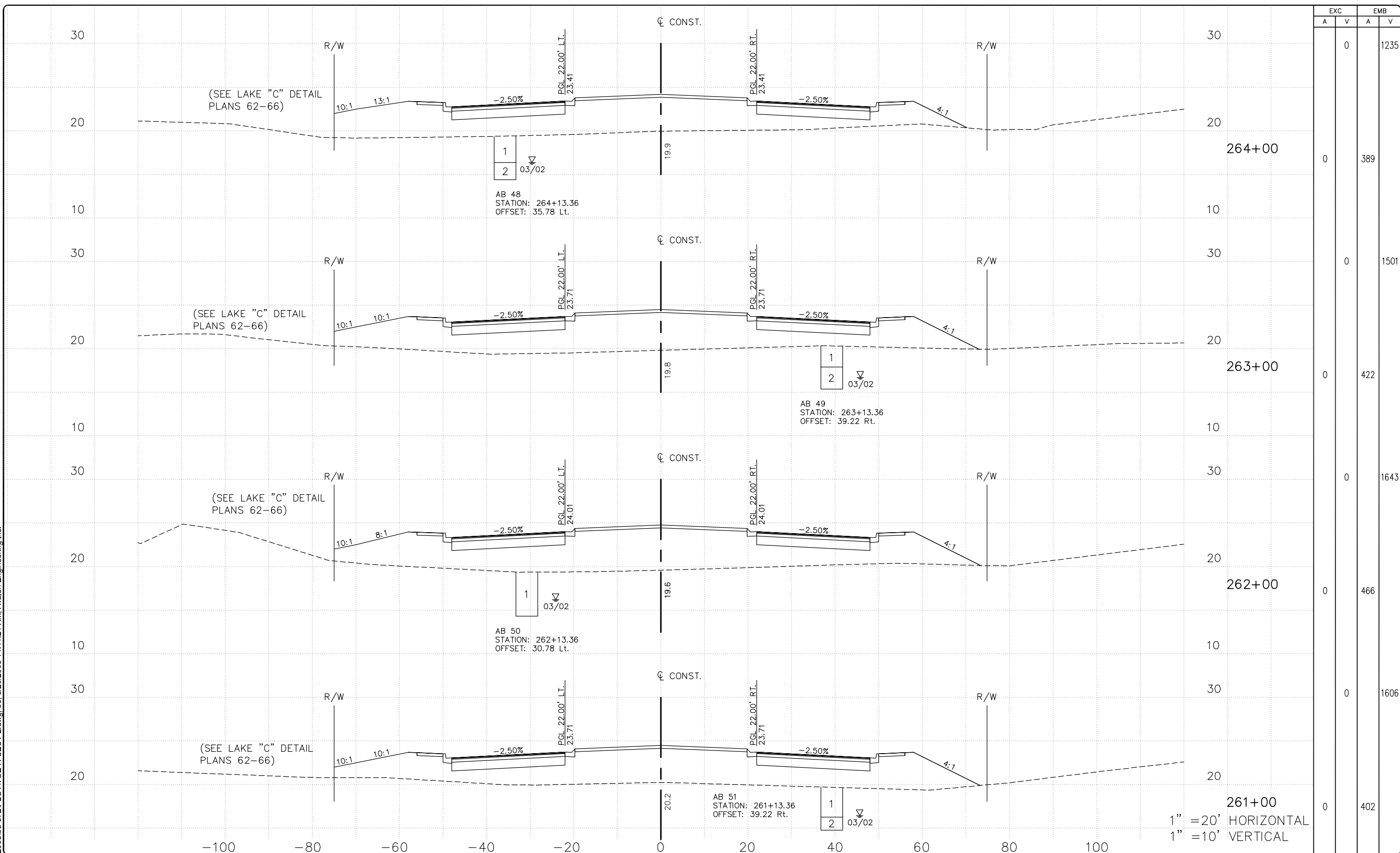
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**95 OF 121**

P:\CAD\2008\08-372\LOTTOE-X-SECT-2.dwg, 96, 8/20/2009 11:41:21 AM, Avalon Engineering Inc.



DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
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PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
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CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

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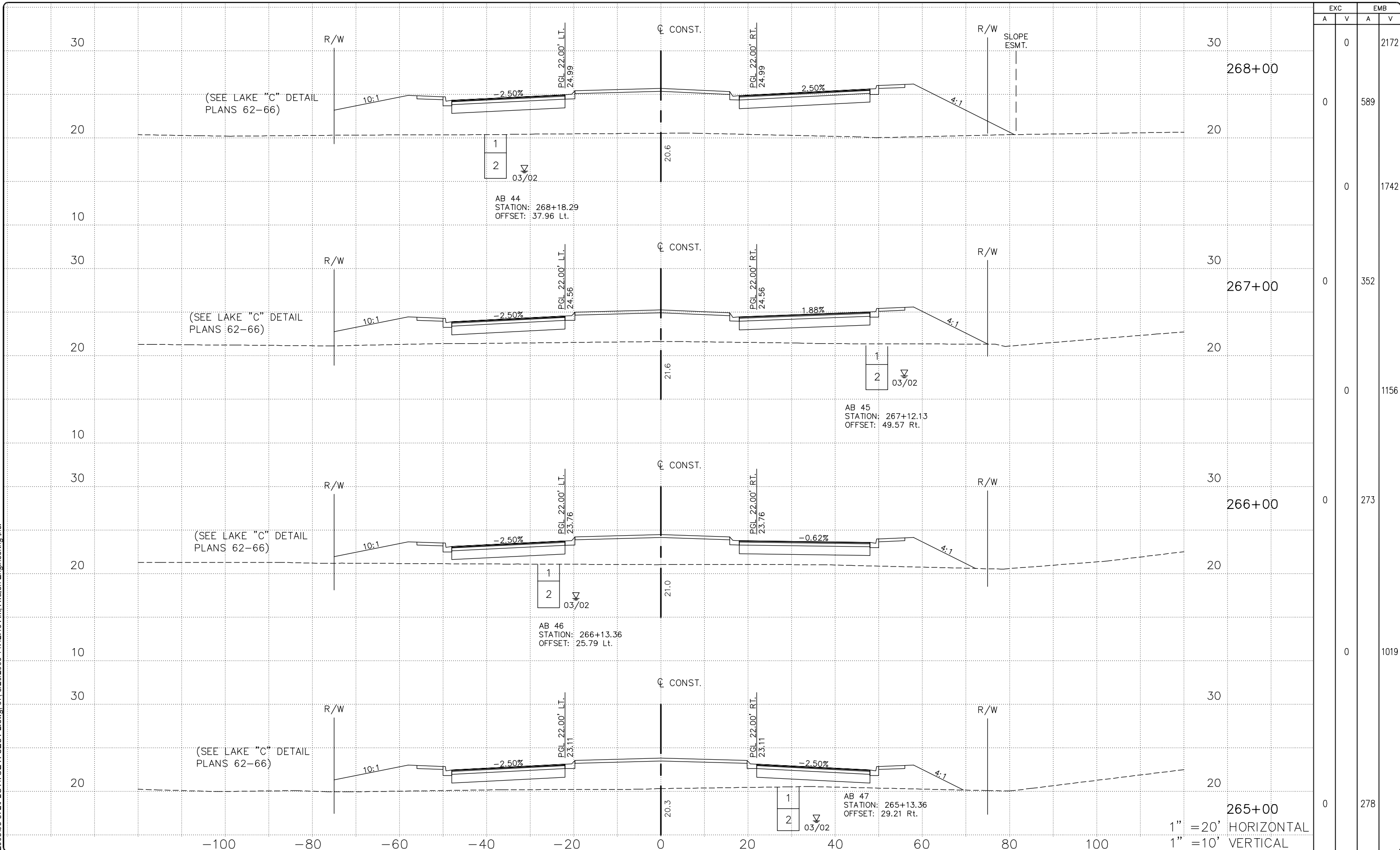
**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**96 OF 121**



P:\CAD\2008\08-372\LOTTOE-X-SECT-2.dwg, 97, 8/20/2009 11:42:16 AM, Avalon Engineering Inc.



EXC		EMB	
A	V	A	V
0	0	0	2172
0	589	0	1742
0	352	0	1156
0	273	0	1019
0	278	0	278

1" = 20' HORIZONTAL  
1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
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PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
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FBPE #3128 (239) 573-2077

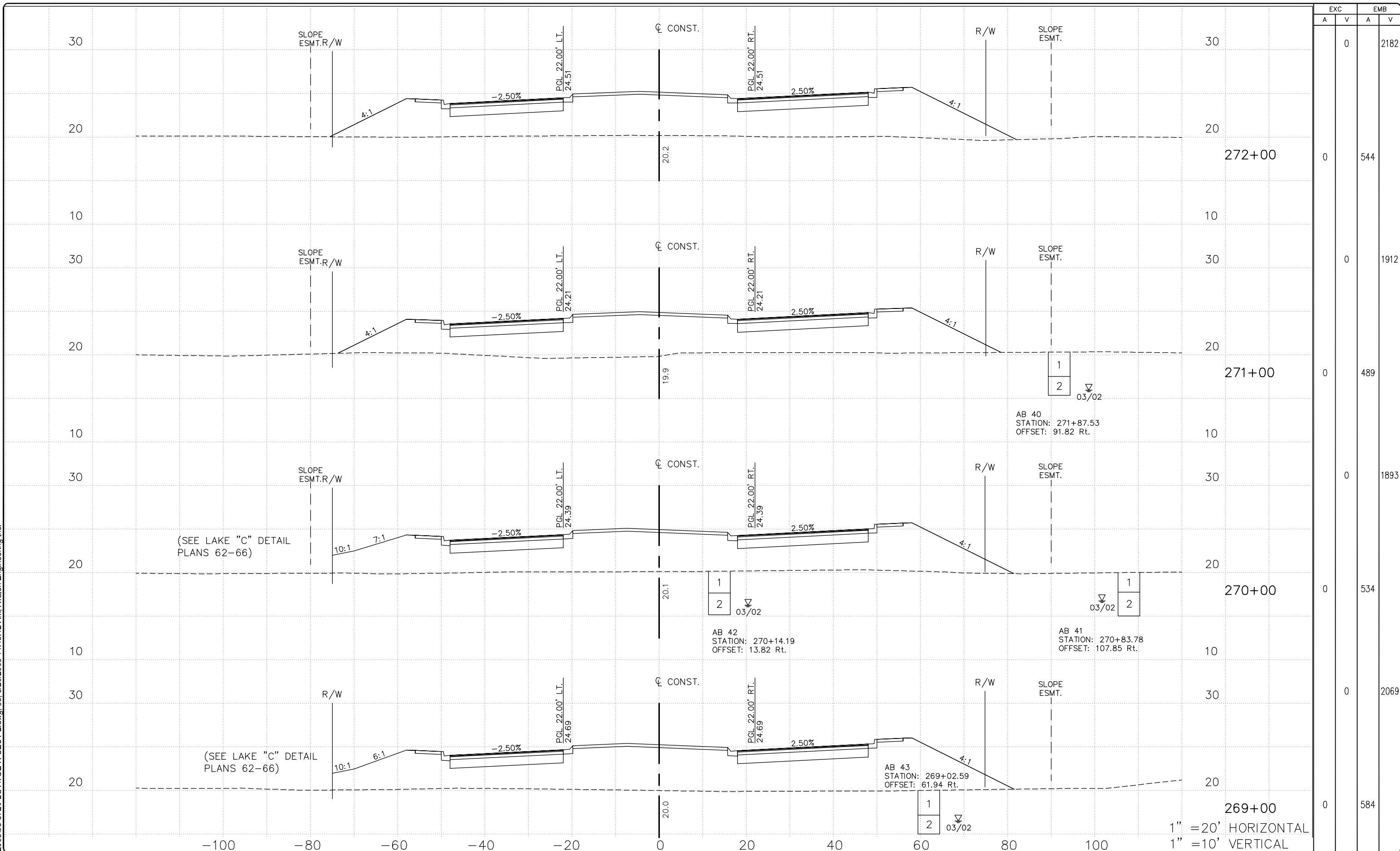
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(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**97 OF 121**

P:\CAD\2008\08-372\LOTTOE-X-SECT-2.dwg, 98, 8/20/2009 11:43:12 AM, Avalon Engineering Inc.



EXC		EMB	
A	V	A	V
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0	0	0	544
0	0	0	1912
0	0	0	489
0	0	0	1893
0	0	0	534
0	0	0	2069
0	0	0	584

1" = 20' HORIZONTAL  
1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
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CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

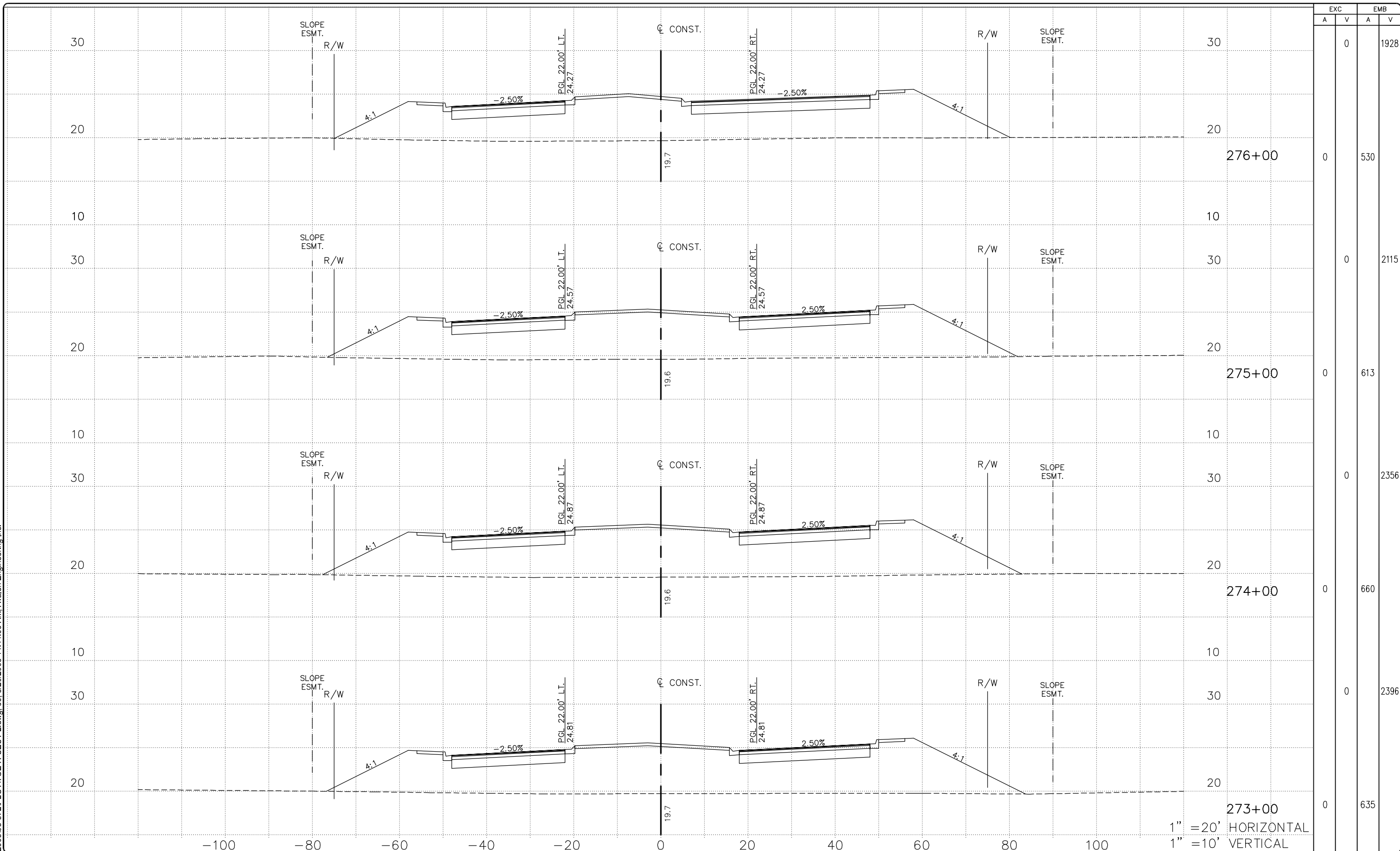
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**98 OF 121**

P:\CAD\2008\08-372\2\1\TTOE-X-SECT-2.dwg, 99, 8/20/2009 11:44:06 AM, Avalon Engineering Inc.



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A	V	A	V
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0	0	0	530
0	0	0	2115
0	0	0	613
0	0	0	2356
0	0	0	660
0	0	0	2396
0	0	0	635

1" = 20' HORIZONTAL  
1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

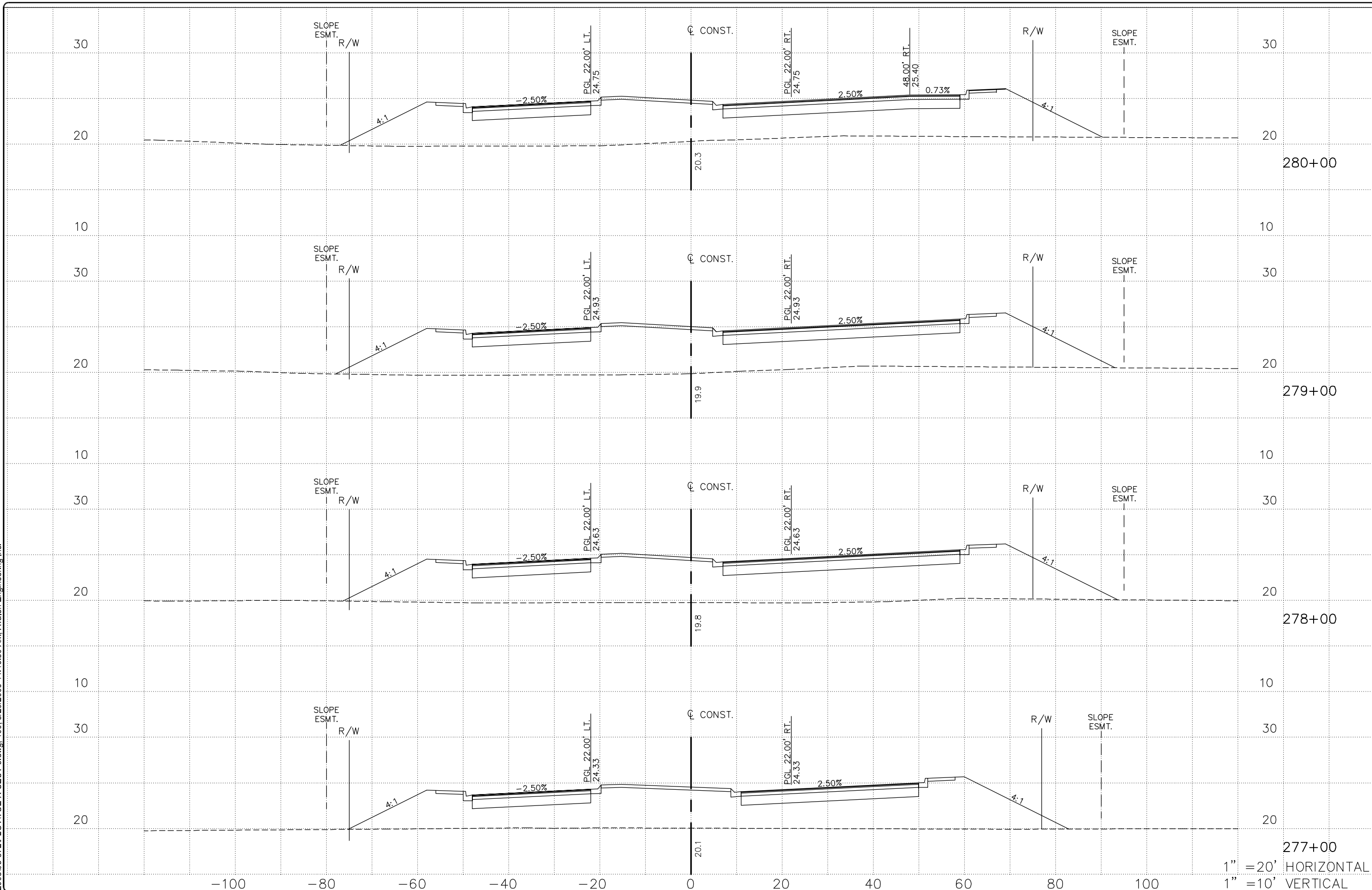
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**99 OF 121**

P:\CAD\2008\08-372\2\1\TTOE-X-SECT-3.dwg, 100, 8/20/2009 11:46:30 AM, Avalon Engineering Inc.



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A	V	A	V
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0	0	0	542
0	0	0	2156
0	0	0	623
0	0	0	2291
0	0	0	615
0	0	0	2085
0	0	0	512

1" = 20' HORIZONTAL  
1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

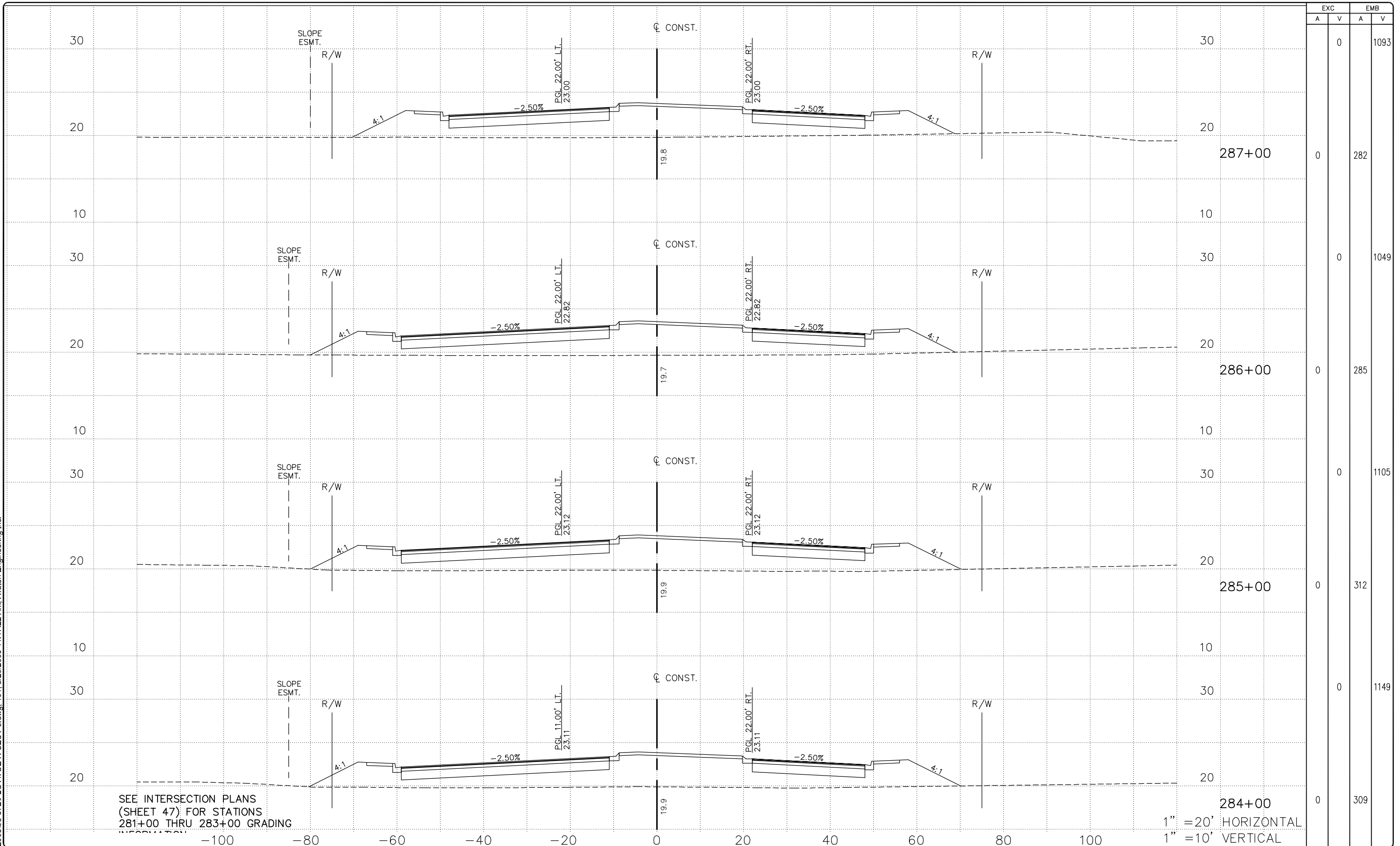
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**100 OF 121**

P:\CAD\2008\08-372\PLOT\TOE-X-SECT-3.dwg, 101, 8/20/2009 11:47:22 AM, Avalon Engineering Inc.



SEE INTERSECTION PLANS  
(SHEET 47) FOR STATIONS  
281+00 THRU 283+00 GRADING  
ELEVATION

1" = 20' HORIZONTAL  
1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

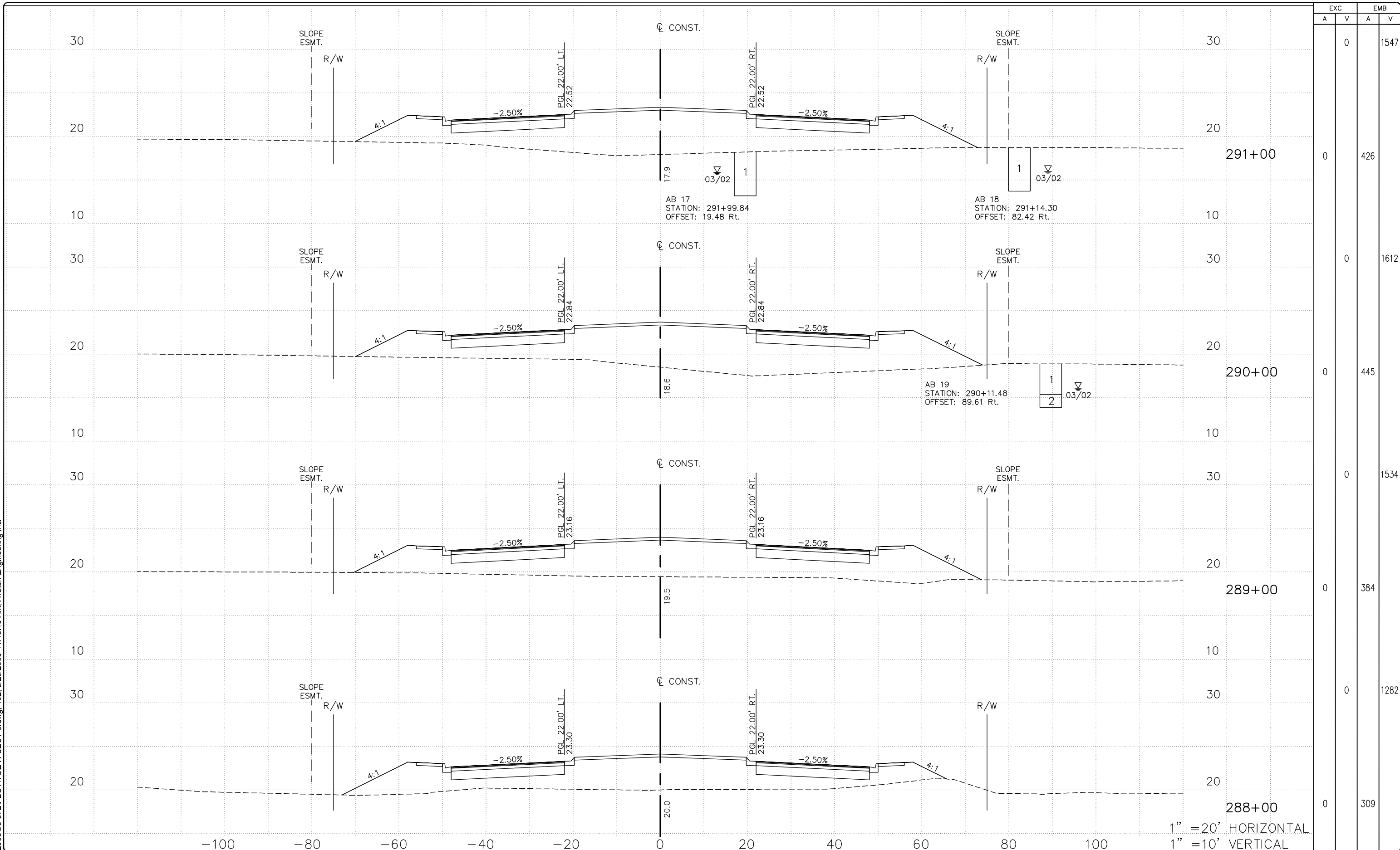
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
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**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**101 OF 121**

P:\CAD\2008\08-372\PLOT\TOE-X-SECT-3.dwg, 102, 8/20/2009 11:48:16 AM, Avalon Engineering Inc.



EXC		EMB	
A	V	A	V
0	0	0	1547
0	0	0	426
0	0	0	1612
0	0	0	445
0	0	0	1534
0	0	0	384
0	0	0	1282
0	0	0	309

1" = 20' HORIZONTAL  
1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrage, PE  
PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

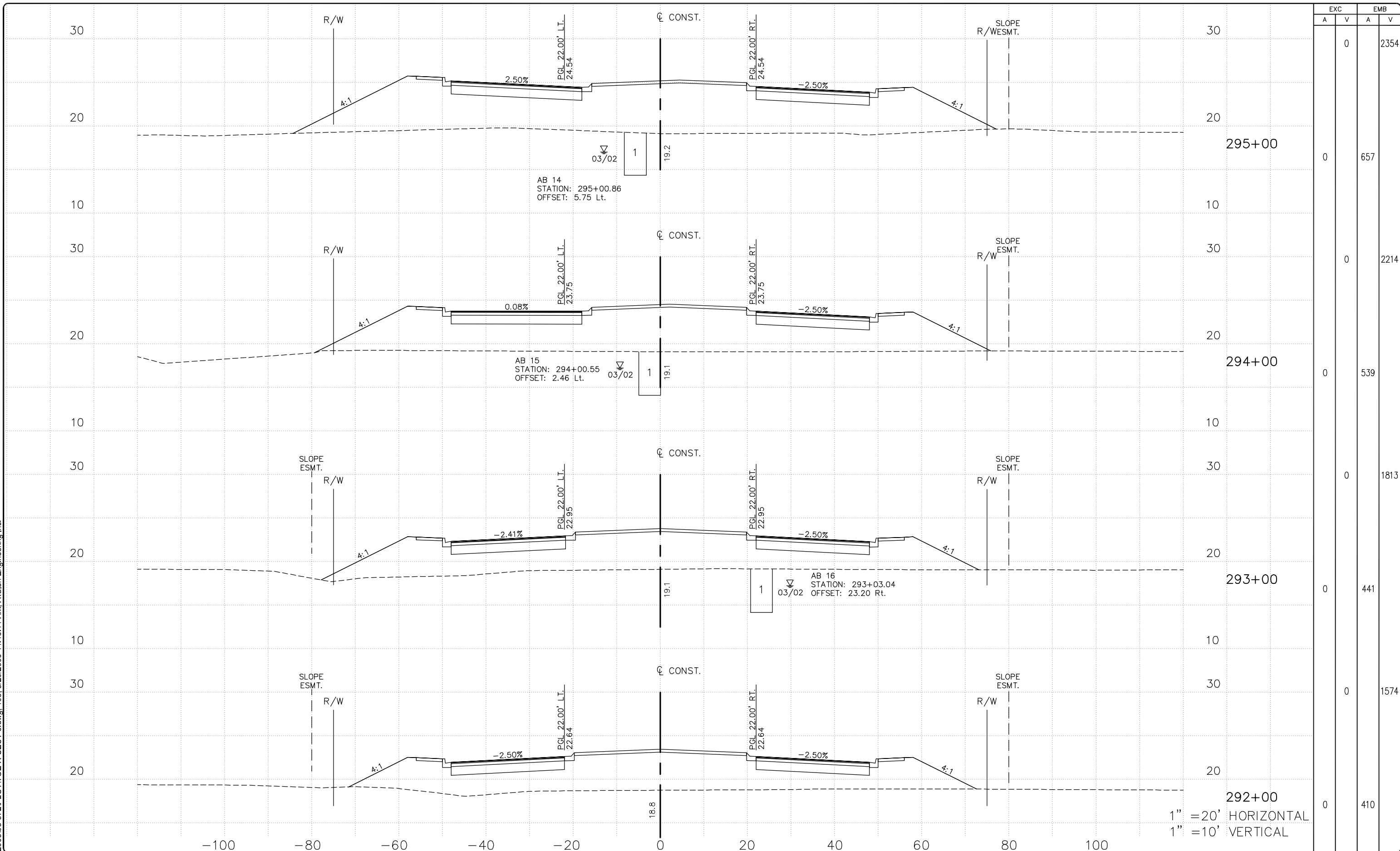
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**102 OF 121**

P:\CAD\2008\08-372\PLOT\TOE-X-SECT-3.dwg, 103, 8/20/2009 11:49:11 AM, Avalon Engineering Inc.



EXC		EMB	
A	V	A	V
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0	0	0	657
0	0	0	2214
0	0	0	539
0	0	0	1813
0	0	0	441
0	0	0	1574
0	0	0	410

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

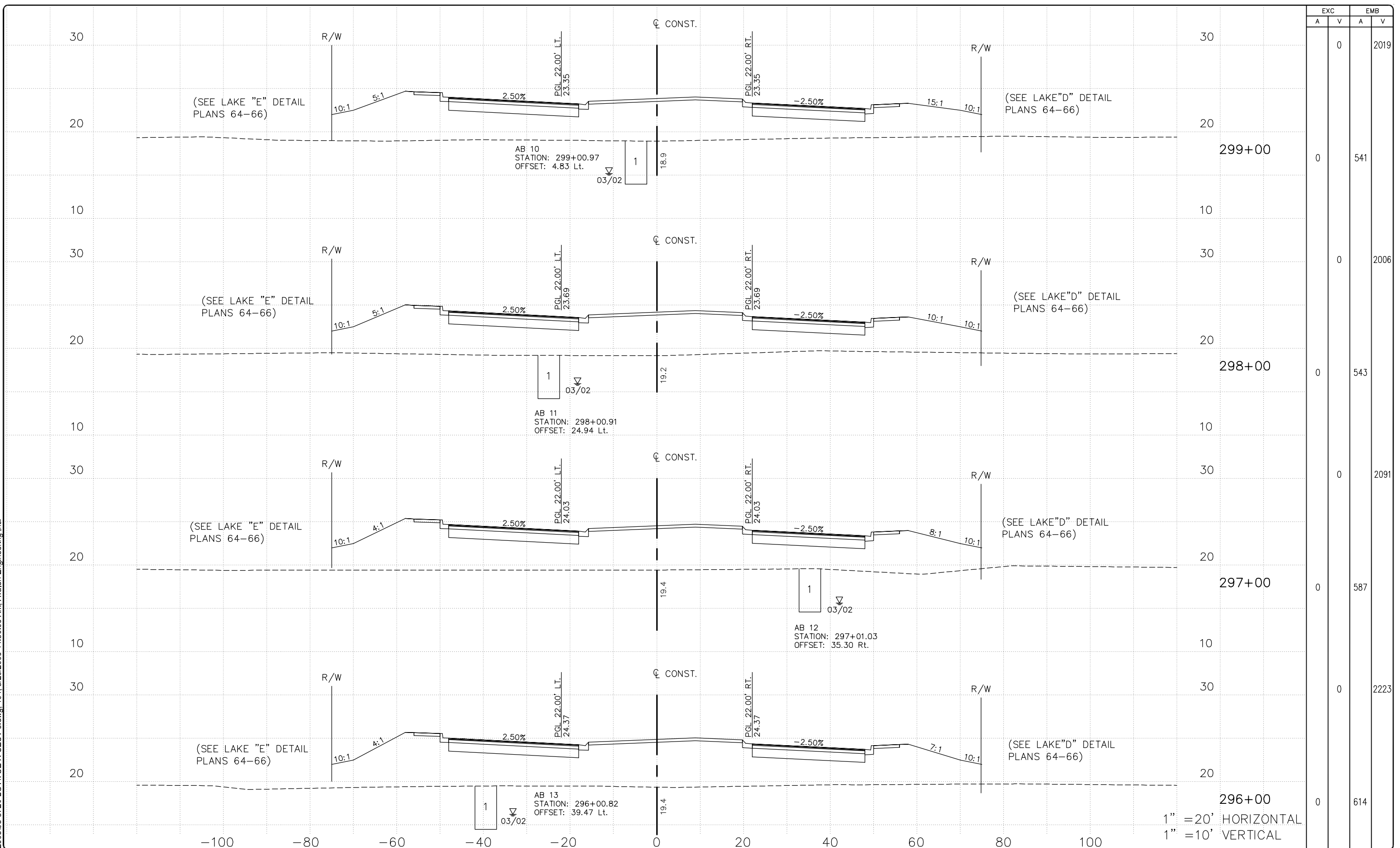
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**103 OF 121**

P:\CAD\2008\08-372\PLOTTING-X-SECT-3.dwg, 104, 8/20/2009 11:50:06 AM, Avalon Engineering Inc.



EXC		EMB	
A	V	A	V
0	0	0	2019
0	0	541	2006
0	0	543	2091
0	0	587	2223
0	0	614	

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
 PROJ. MGR. Jack Schragger, PE  
 PROJ. DIR.  
 APPROVED:

**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

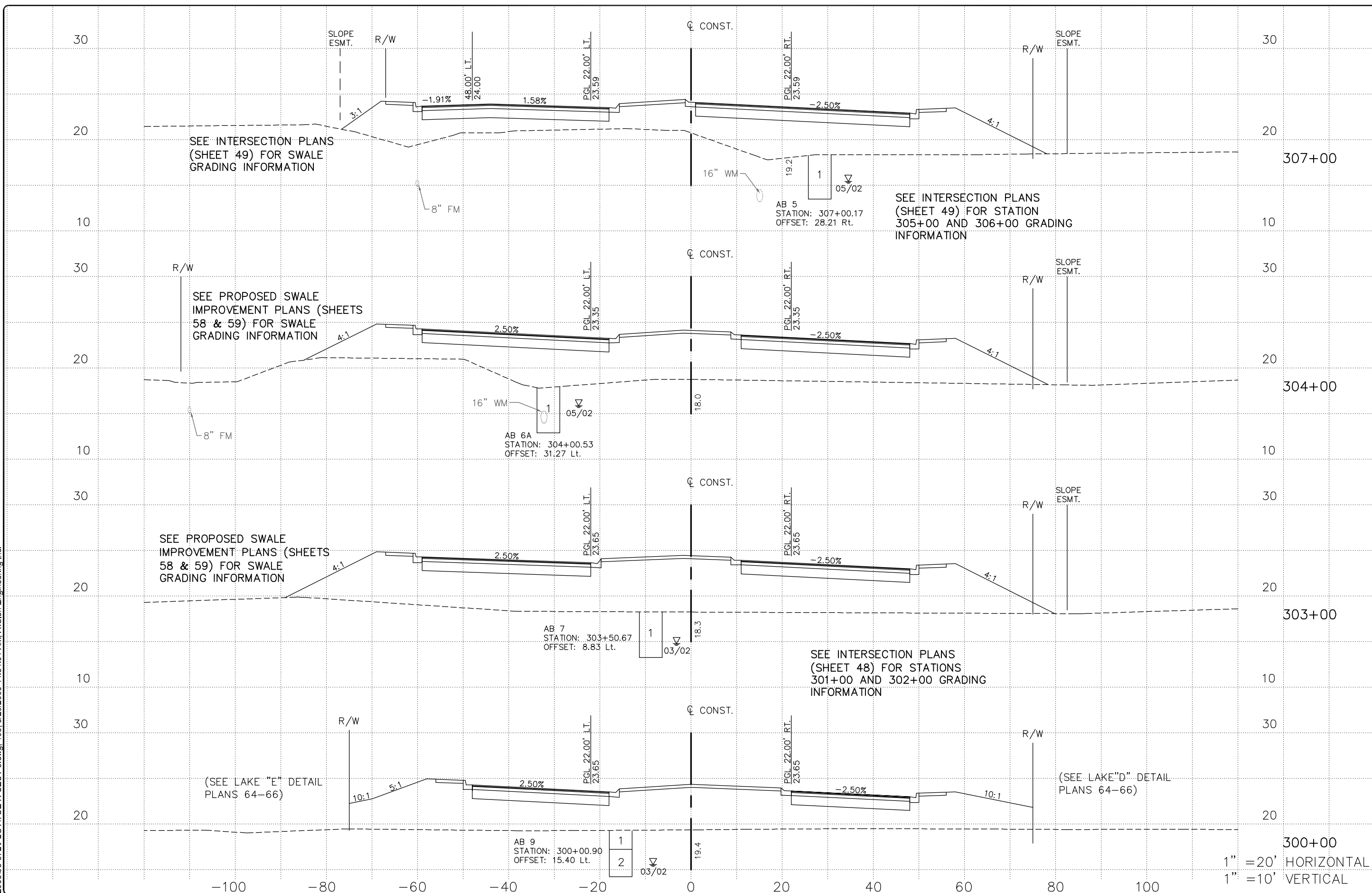
**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**104 OF 121**



P:\CAD\2008\08-372\PLT\TOE-X-SECT-3.dwg, 105, 8/20/2009 11:51:01 AM, Avalon Engineering Inc.



EXC		EMB	
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0	0	424	0
0	0	5344	0
0	0	538	0
0	0	2266	0
0	0	686	0
0	0	6858	0
0	0	549	0

1" = 20' HORIZONTAL  
1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE: \_\_\_\_\_  
 PROJ. MGR. Jack Schragger, PE  
 PROJ. DIR. \_\_\_\_\_  
 APPROVED: \_\_\_\_\_

**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

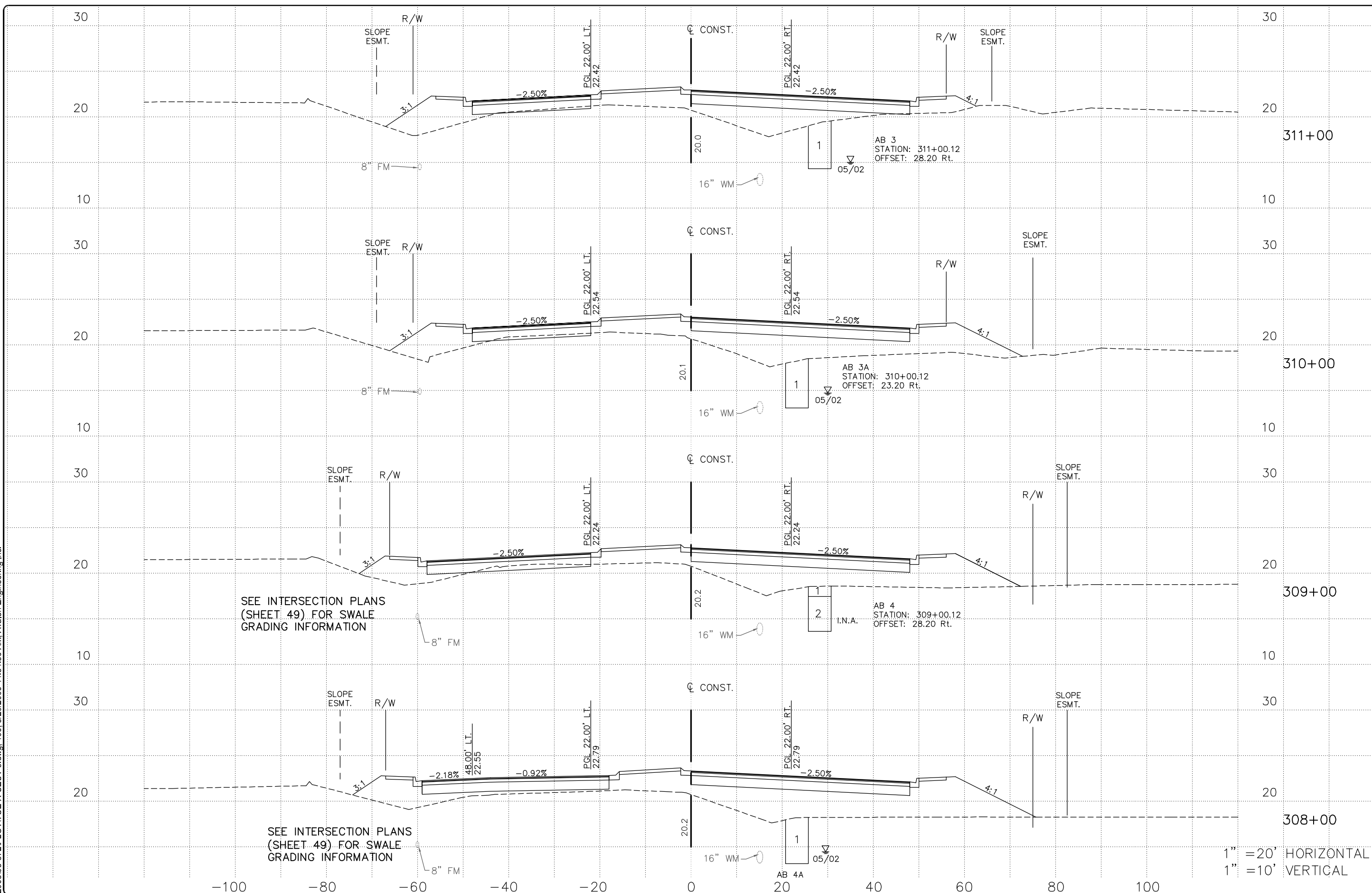
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET **105** OF **121**

P:\CAD\2008\08-372\PLOT\TOE-X-SECT-3.dwg, 106, 8/20/2009 11:51:56 AM, Avalon Engineering Inc.



EXC		EMB	
A	V	A	V
	26		1069
4			152
6			236
11			225
20			954
31			847
19			717
0			293

SEE INTERSECTION PLANS (SHEET 49) FOR SWALE GRADING INFORMATION

SEE INTERSECTION PLANS (SHEET 49) FOR SWALE GRADING INFORMATION

1" = 20' HORIZONTAL  
1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schragger, PE  
PROJ. DIR.  
APPROVED:

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CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

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(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
**106 OF 121**

P:\CAD\200808-372\PLOTTOE-X-SECT-3.dwg, 107, 8/20/2009 11:52:46 AM, Avalon Engineering Inc.

SEE INTERSECTION PLANS (SHEET 51)  
FOR STATION 316+00 GRADING  
INFORMATION

30  
20  
10  
30  
20  
10  
30  
20  
10  
10



SEE INTERSECTION PLANS (SHEET 50)  
FOR STATION 312+00 GRADING  
INFORMATION

1" = 20' HORIZONTAL  
1" = 10' VERTICAL

EXC		EMB	
A	V	A	V
54	21		
200	111		
67	46		
130	339		
3	137		

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. OB-372	DATE:
PROJ. MGR. Jack Schrage, PE	
PROJ. DIR.	
APPROVED:	

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

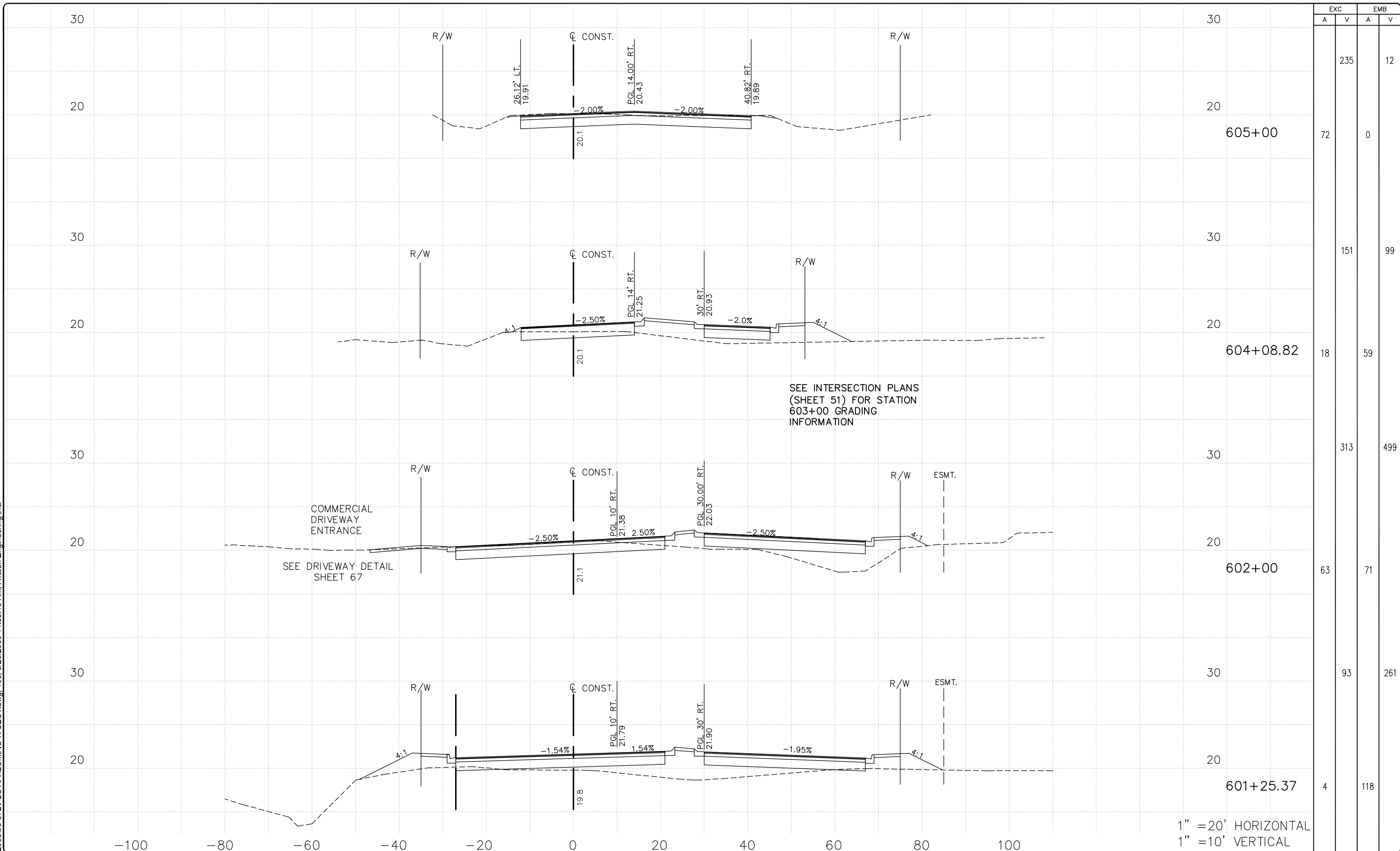
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**THREE OAKS PKWY EXT.**

SHEET  
107 OF 121

P:\CAD\2008\108-372\PLT\PALOMINO-X-SECT.dwg, 108, 8/20/2009 11:55:13 AM, Avalon Engineering Inc.



EXC		EMB	
A	V	A	V
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72		0	
	151		99
18		59	
	313		499
63		71	
	93		261
4		118	

1" = 20' HORIZONTAL  
1" = 10' VERTICAL

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

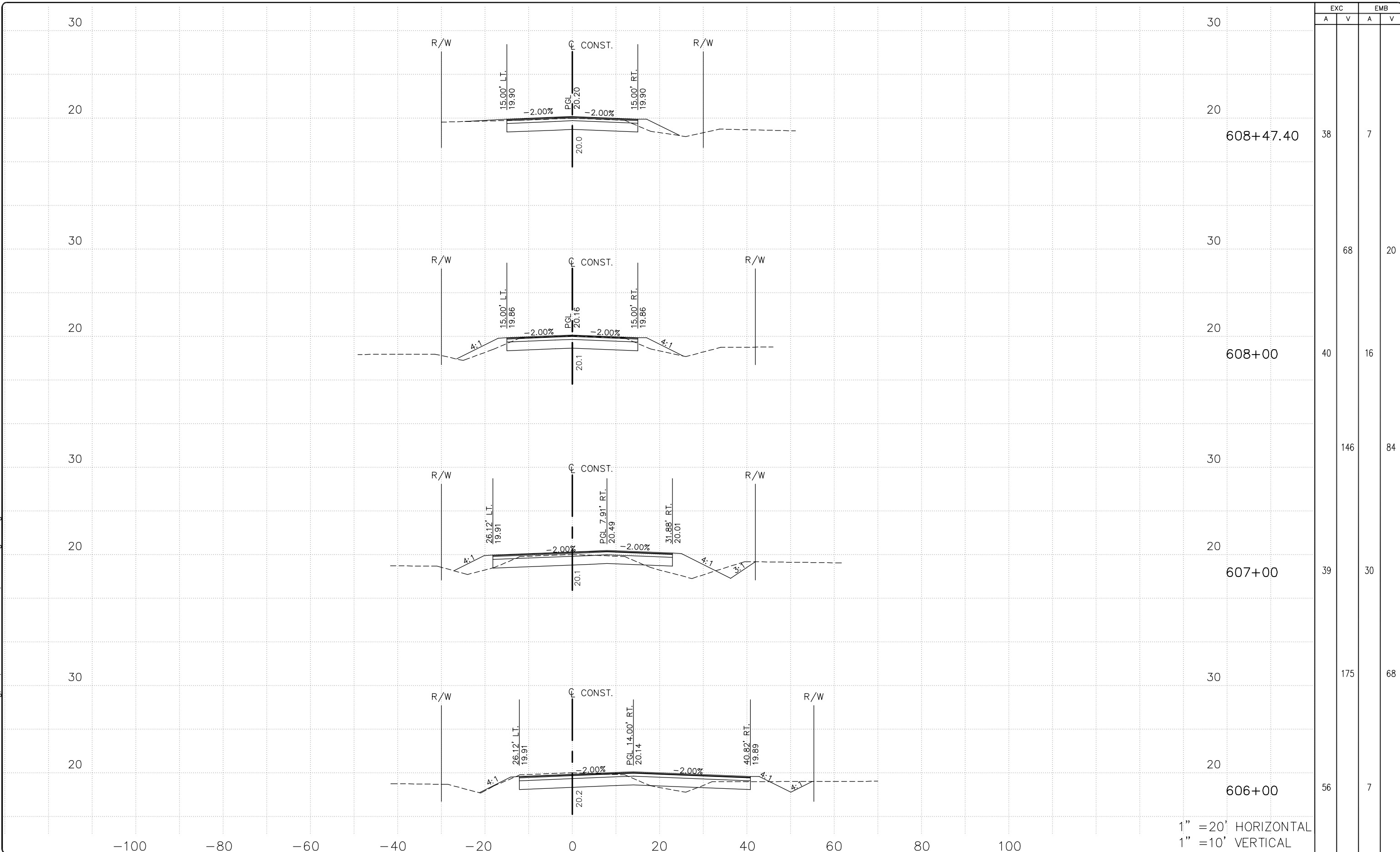
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**PALOMINO LANE**

SHEET  
**108 OF 121**

P:\CAD\2008\372\2PLOT\PALOMINO-X-SECT.dwg, 109, 8/20/2009 11:56:08 AM, Avalon Engineering Inc.



1" = 20' HORIZONTAL  
1" = 10' VERTICAL

EXC		EMB	
A	V	A	V
		38	7
		68	20
		40	16
		146	84
		39	30
		175	68
		56	7

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
 PROJ. MGR. Jack Schragger, PE  
 PROJ. DIR. \_\_\_\_\_  
 APPROVED: \_\_\_\_\_

**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

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**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**ROADWAY CROSS SECTIONS**  
**PALOMINO LANE**

SHEET  
**109 OF 121**

**STORMWATER POLLUTION PREVENTION PLAN  
THREE OAKS PARKWAY EXTENSION**

STORMWATER POLLUTION PREVENTION PLAN

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.

Outfall Information: There are 5 outfall.

Description:	Location:		Est. Drainage Area Size (AC):	Outfall No:	Receiving Water:
	Latitude:	Longitude:			
Lake "A" Control Structure	N26° 30' 39.49"	W81° 47' 56.54"	30.06	1	Six Mile Slough
Lake "B" Control Structure	N26° 31' 31.97"	W81° 47' 51.59"	20.12	2	Six Mile Slough
Lake "C" Control Structure	N26° 32' 05.26"	W81° 47' 52.07"	59.06	3	Six Mile Slough
Lake "E" Control Structure	N26° 32' 31.06"	W81° 48' 14.35"	15.11	4	Six Mile Slough
Prop. 29"x45" S.D. Fiddelsticks Blvd.	N26° 32' 35.76"	W81° 48' 14.65"	1.26	5	Six Mile Slough

1.0 SITE DESCRIPTION

1.1 Nature of Construction Activity: The project is the extension of Three Oaks Parkway, a four-lane roadway with an urban type section. This project involves constructing a roadway surface, curb and gutter, sidewalk, underground storm sewer systems, and stormwater management facilities. This project begins approximately 4200 ft north of Alico Boulevard and extends to the intersection of Fiddlesticks Boulevard and Daniels Parkway. The majority of the roadway section parallels I-75 on the west side of I-75.

1.2 Sequence of Major Soil Distributing 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 the 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.

- 1.2.1 Clearing and grubbing, earthwork, and storm sewer construction for the stormwater detention areas and control structures and outfall connections to the existing storm sewer system.
- 1.2.2 Storm sewer and roadway underdrain construction. Construct the storm drain pipe in the upstream direction.
- 1.2.3 Earthwork associated with roadway, and construction of gravity wall, curb, subgrade, base, pavement, and sidewalk.

1.3 Area Estimates:

Three Oaks Parkway Extension  
 Total site area: 103.94 acres.  
 Total area to be disturbed: 103.94 acres.

1.4 Runoff Data:

Runoff coefficients:  
 Before 0.45  
 During: Varies from 0.45 to 0.65  
 After: 0.65

Soils Data: The results of the soil borings along the roadway are shown on the Roadway Soil Survey Sheet(s). The numbers for these are identified on the Key Sheet of these construction plans. In general, the soils are fine sands with varying amounts of silt, rock, clay, and shell fragments.

1.5.5 Locations of Temporary Controls: These are shown on the Erosion Control Sheets. Tables providing summaries of temporary erosion and sediment control items are provided in the Summary of Quantity Sheets.

1.5.6 Locations of Permanent Controls: The existing and proposed detention/retention area are the primary permanent stormwater management controls. These are shown on the Plan/Profile Sheets and Drainage Detail sheets.

1.5.7 Areas To Be Stabilized: Temporary stabilization practices are required 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 detention/retention Area Details Sheets.

1.5.8 Surface Water: The existing Six Mile Slough System is the main surface water outfall for this site. The detention/retention outfall locations are shown on the Basin Drainage Map sheets.

1.5.9 Discharge Points To Surface Waters: They are shown on the Basin Drainage Map Sheets.

1.5.10 Receiving Waters: See Item 1.4 for the outfall locations and receiving water names. There are wetland areas on the project site.

2.0 CONTROLS:

2.1 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 the following 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 seasoned variation, changes in construction activities, and the need for better erosion control 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.

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8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. NO. - 372	DATE:
PROJ. MGR. Jack Schrager, PE	
PROJ. DIR.	
APPROVED:	

**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**STORMWATER POLLUTION PREVENTION PLAN**

2.1.2.2 Permanent:

Sod stormwater Detention/Retention areas.

2.2 Stormwater Management:

The stormwater systems will be constructed to convey runoff to five (5) stormwater Detention/Retention Areas. The facilities have been permitted by the Florida Department of Environmental Protection (FDEP) and Lee County, and comply with applicable design standards.

2.3 Other Controls:

2.3.1 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.

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

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

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

2.3.2 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.

2.3.2.1 Covering loaded haul trucks with tarpaulins.

2.3.2.2 Removing excess dirt from roads, daily.

2.3.2.3 Stabilizing construction entrances according to Design Standards Index No. 106.

2.3.2.4 Using roadway sweepers with water during dust generating activities such as excavation and milling operations.

2.3.3 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 procedures for comply with applicable state and local regulations for waste disposal, and sanitary sewer or septic systems.

2.3.4 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 of 577 of the Specifications.

2.3.5 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.

2.3.6 Approved State and Local Plans and Permits:

2.3.6.1 FDEP Rule Chapter 62-25 F.A.C.

2.3.6.2 Lee County Land Development Code.

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.

3.1 Silt Fence: Maintain per Section 104. The Contractor should anticipate replacing silt fence on twelve (12) month intervals.

3.2 Baled Hay or Straw: Remove sediment when it reaches 1/2 height of bales or when water ponds in unacceptable amounts or areas. The Contractor should anticipate replacing straw bales on three (3) month intervals.

3.3 The Detention/Retention Areas are temporary sediment basins until the areas that drain to them are stabilized, so until then, remove sediment from the Detention/Retention Areas when it becomes six (6) inches deep at any point.

3.4 Turbidity Barriers: The Contractor shall provide a plan for maintaining all turbidity barriers throughout construction. The maintenance plan shall at a minimum, comply with Section 103 and Section 104.

4.0 INSPECTIONS:

Qualified personnel shall inspect the following items at least once every seven (7) 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. The Contractor shall also inspect the following items that are associated with the Project:

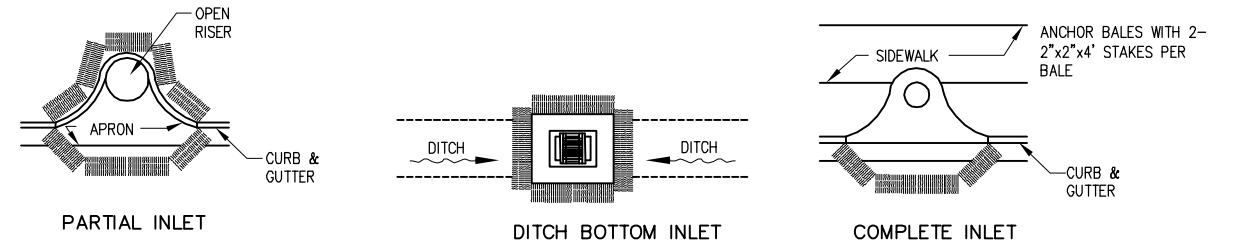
- 4.0.1 Points of discharge to waters of the United States.
- 4.0.2 Points of discharge to municipal separate storm sewer systems.
- 4.0.3 Disturbed areas of the site that have not been finally stabilized.
- 4.0.4 Areas used for storage of materials that are exposed to precipitation.
- 4.0.5 Structural controls.
- 4.0.6 Stormwater management systems.
- 4.0.7 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 and/or do not meet the requirements outlined in the SWPPP.

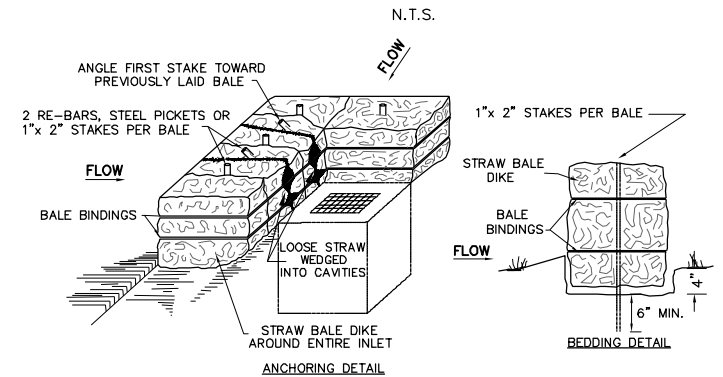
If inspections indicate that the installed stabilization and structural practices are not sufficient to minimize erosion, retain sediment, and prevent discharging pollutants, the Contractor shall provide additional measures, as approved by the Engineer.

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 DEP National Response Center at 1-800-424-8802.



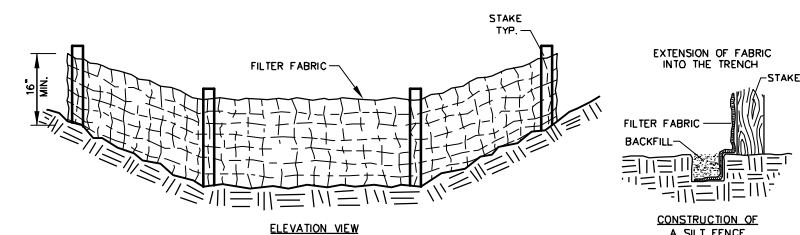
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



STRAW BALE PLACEMENT

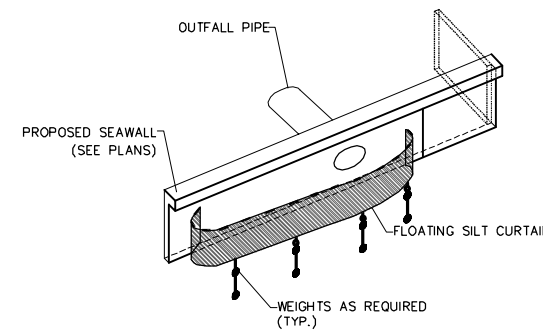
1. PRIOR TO CONSTRUCTION, FILTER FABRIC, SILT SCREENS, STRAW BALES OR OTHER APPROVED EROSION CONTROL DEVICES SHALL BE INSTALLED ACROSS THE SWALE AT THE LOWEST DISTURBED POINT TO PREVENT EROSION MATERIAL FROM LEAVING THE CONSTRUCTION AREA, INCLUDING ANY VACANT AREAS USED FOR INGRESS AND EGRESS.
2. ALL AFFECTED STORMWATER PIPES, INLETS AND CATCH BASINS SHALL BE PROTECTED BY EROSION CONTROL DEVICES TO PREVENT CONSTRUCTION RELATED EROSION MATERIAL FROM ENTERING THE STORMWATER SYSTEM.
3. THE EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION PROCESS AND SHALL REMAIN IN PLACE UNTIL STABILIZED WITH SOD AND THE VACANT AREAS ARE SEEDED AND MULCHED.

EROSION CONTROL



SILT SCREEN PLACEMENT

(PER FDOT INDEX 102)



TURBIDITY CURTAIN

THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE APPROVED TURBIDITY SCREENS IN PLACE DURING ANY AND ALL CLEARING, EXCAVATING, JETTING AND BACKFILLING OPERATIONS WHICH TOTALLY ENCLOSES THE CONSTRUCTION SITE. SCREENS ARE TO REMAIN IN PLACE 24 HOURS MINIMUM AFTER CONSTRUCTION ON A SPECIFIC DRAINAGE BASIN CEASES OR UNTIL TURBIDITY LEVEL IS 20 NTU ABOVE THE PRE-CONSTRUCTION TURBIDITY LEVEL. SCREENS MUST EXTEND FROM THE WATER SURFACE TO THE BOTTOM AND BE ADEQUATELY WEIGHED TO KEEP THEM IN PLACE DURING ALL OPERATIONS. THERE SHALL BE ADEQUATE FLOATATION AT THE SURFACE TO PREVENT OVERFLOW. THIS FLOATATION MUST BE BRIGHTLY COLORED TO MAXIMIZE VISIBILITY.

TURBIDITY CONTROL

SILT SCREEN

(PER FDOT INDEX 103)

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PROJ. DIR.	
APPROVED:	

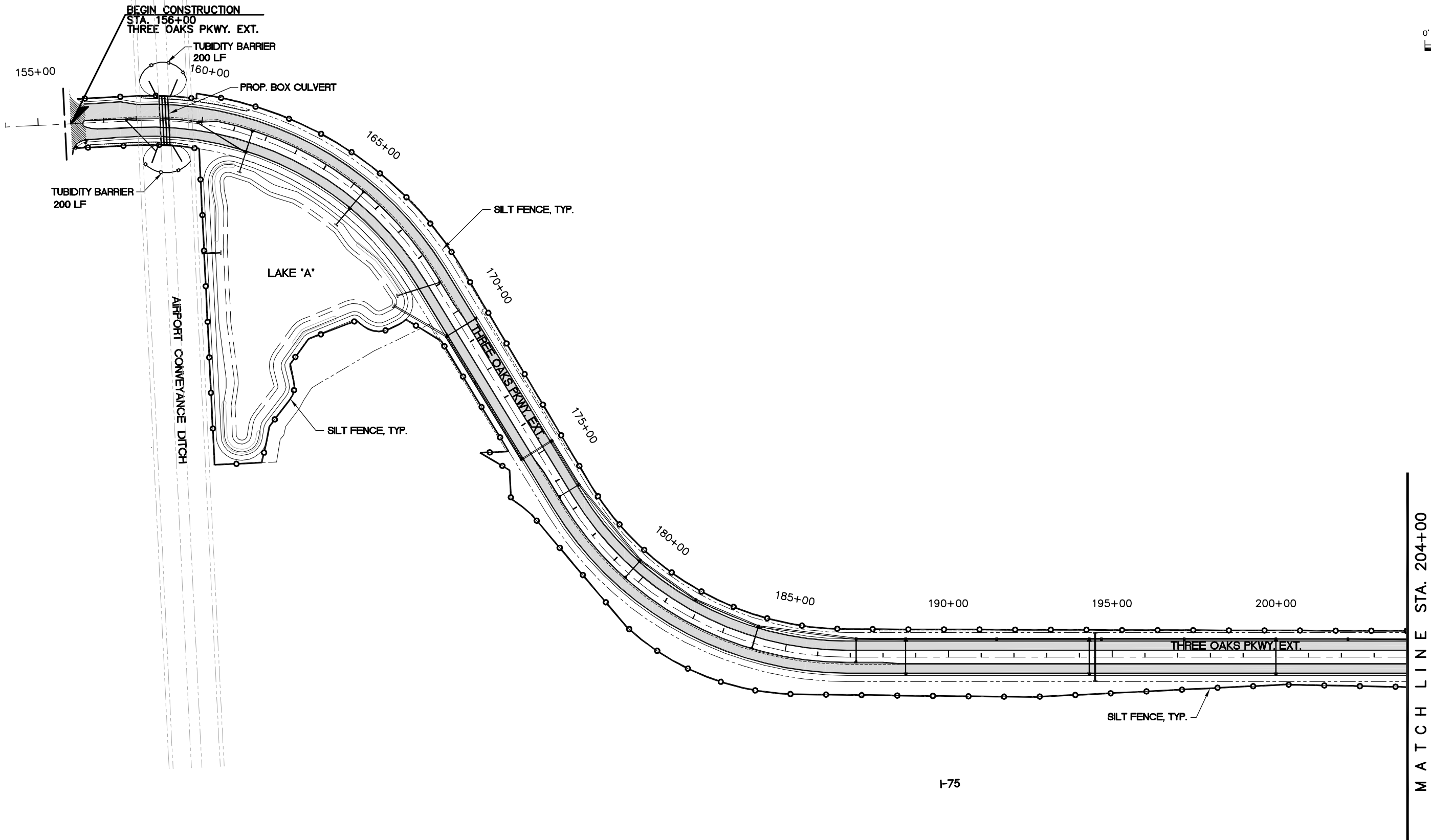
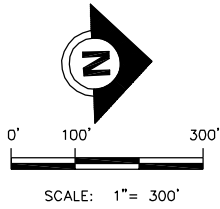
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**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**STORMWATER POLLUTION PREVENTION PLAN**

SHEET  
111 OF 121



**LEGEND**

	SILT FENCE
	TURBIDITY BARRIER

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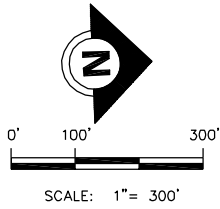
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THREE OAKS PARKWAY EXTENSION  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**EROSION CONTROL PLAN**  
**THREE OAKS PKWY. EXT.**

SHEET  
**112 OF 121**





MATCH LINE STA. 204+00

MATCH LINE STA. 246+00



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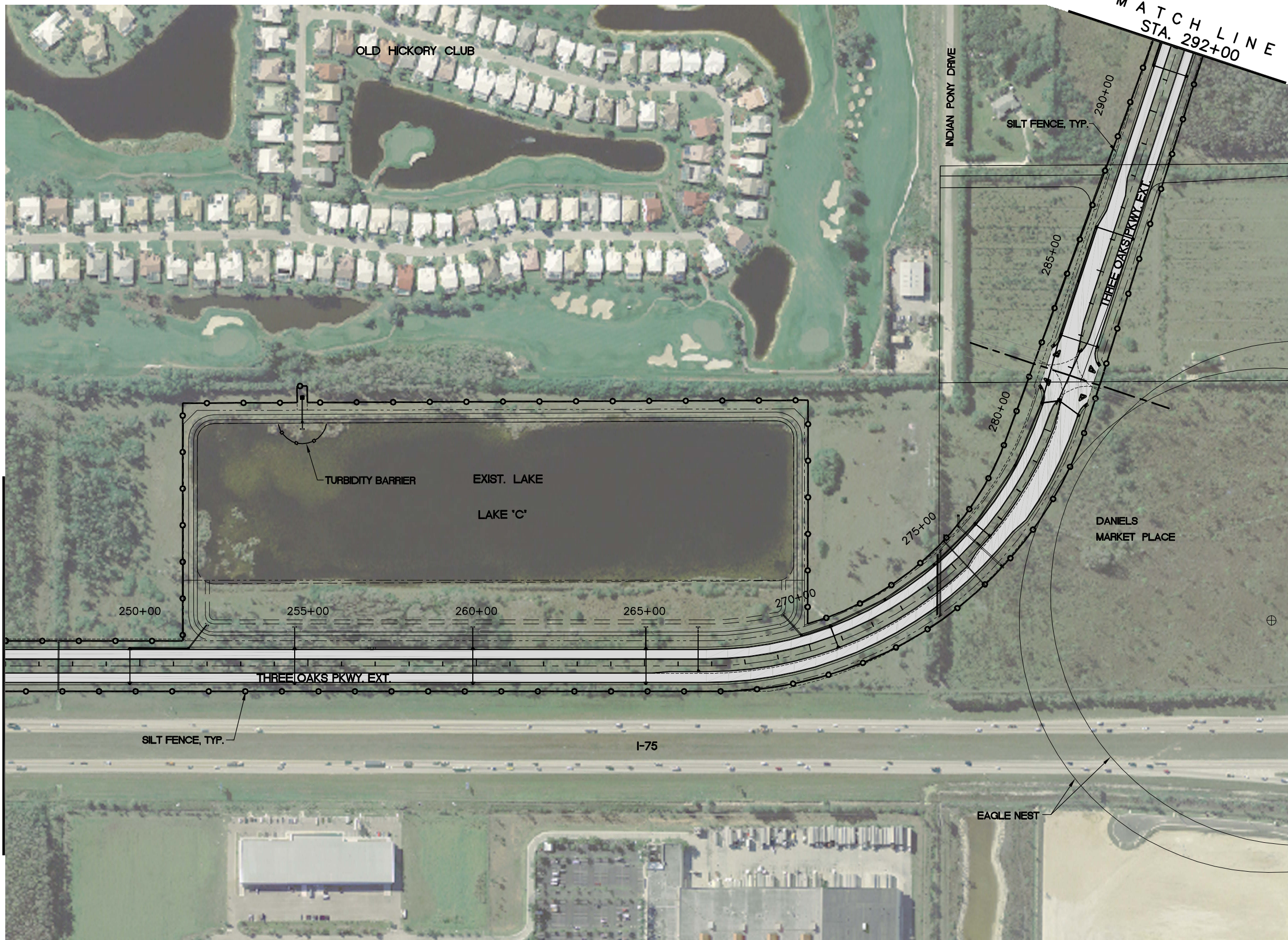
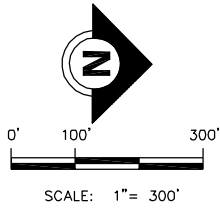
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**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**EROSION CONTROL PLAN**  
**THREE OAKS PKWY. EXT.**

SHEET  
**113 OF 121**



**LEGEND**

	SILT FENCE
	TURBIDITY BARRIER

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MATCH LINE STA. 246+00

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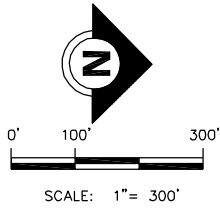
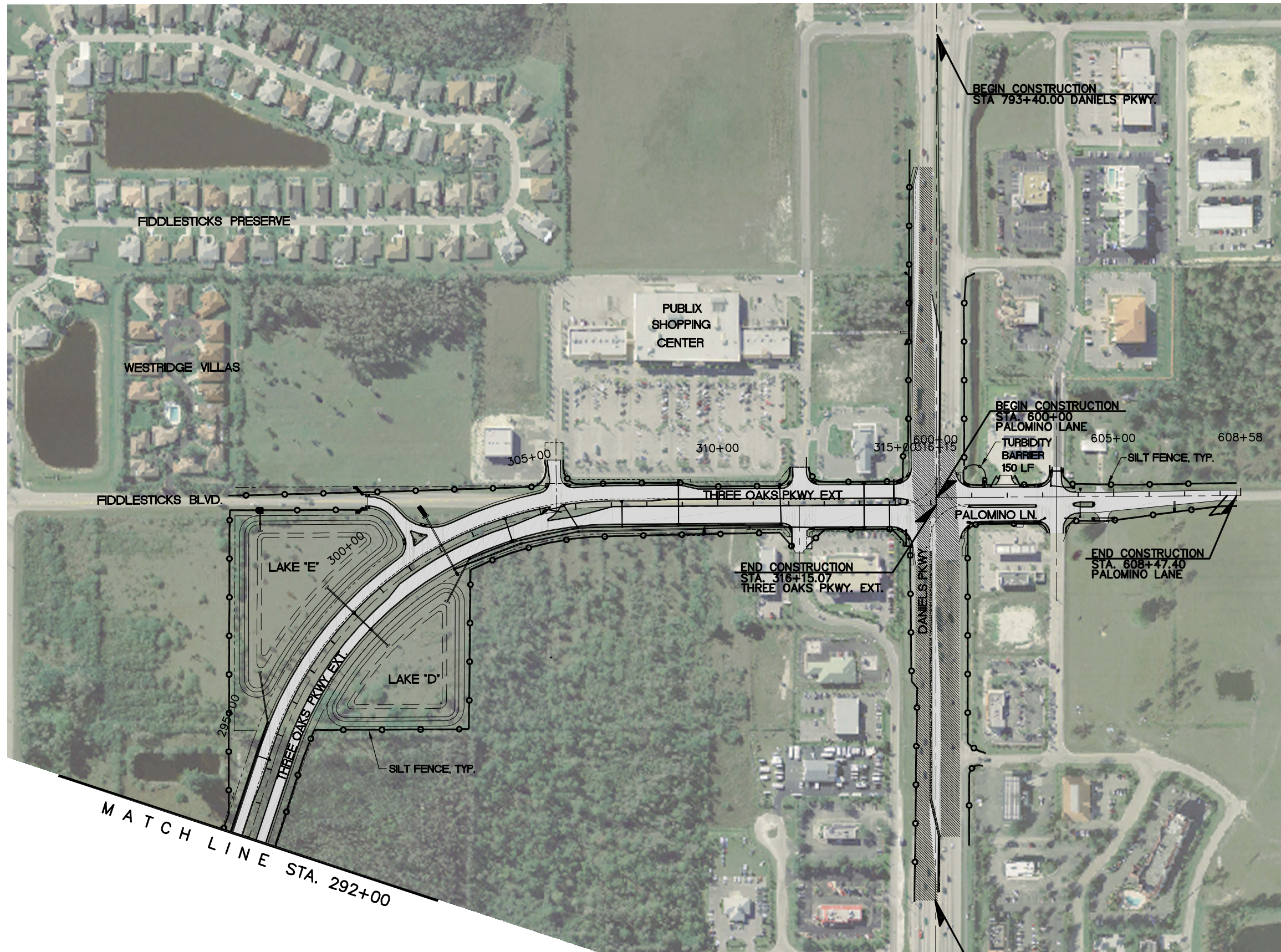
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**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**EROSION CONTROL PLAN**  
**THREE OAKS PKWY. EXT.**

SHEET  
114 OF 121



**LEGEND**

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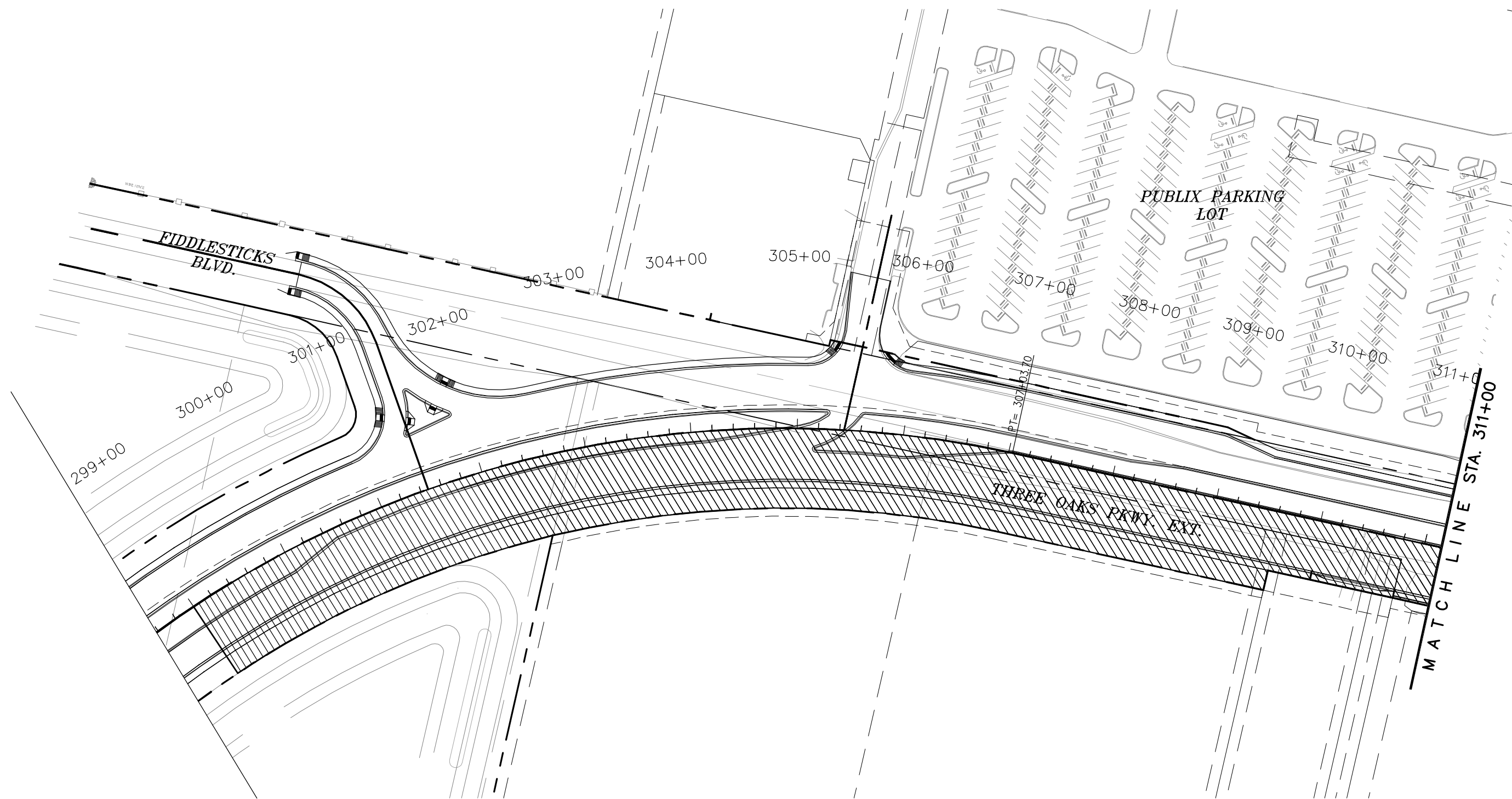
**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**EROSION CONTROL PLAN**  
**THREE OAKS PKWY. EXT.**

SHEET  
115 OF 121



0' 50' 100'  
SCALE: 1" = 100'



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AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

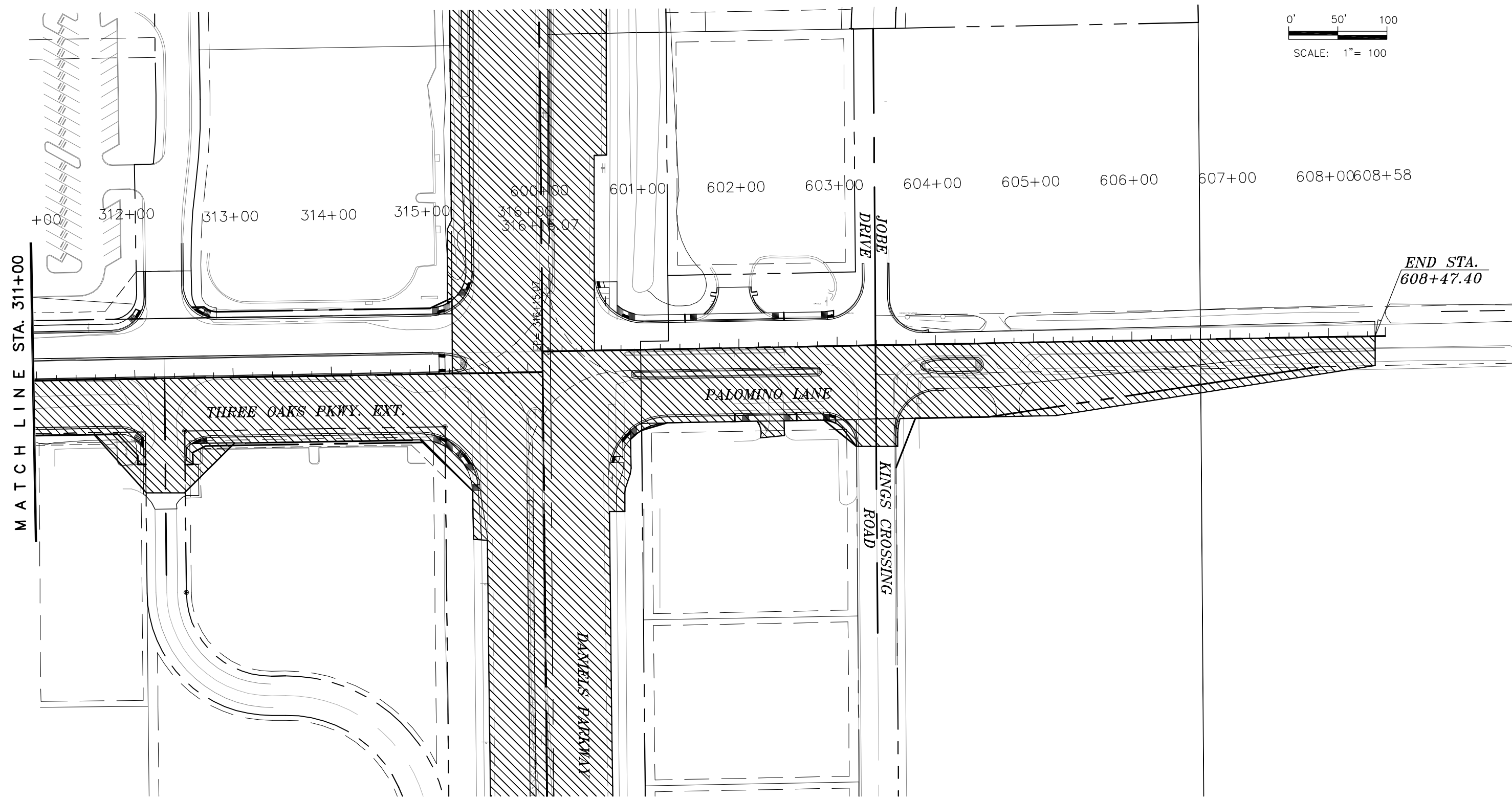
**PHASING PLAN**  
**PHASE I**

SHEET  
**116 OF 121**

**LEGEND**  
 WORK AREA



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SCALE: 1"= 100'



**LEGEND**  
 WORK AREA

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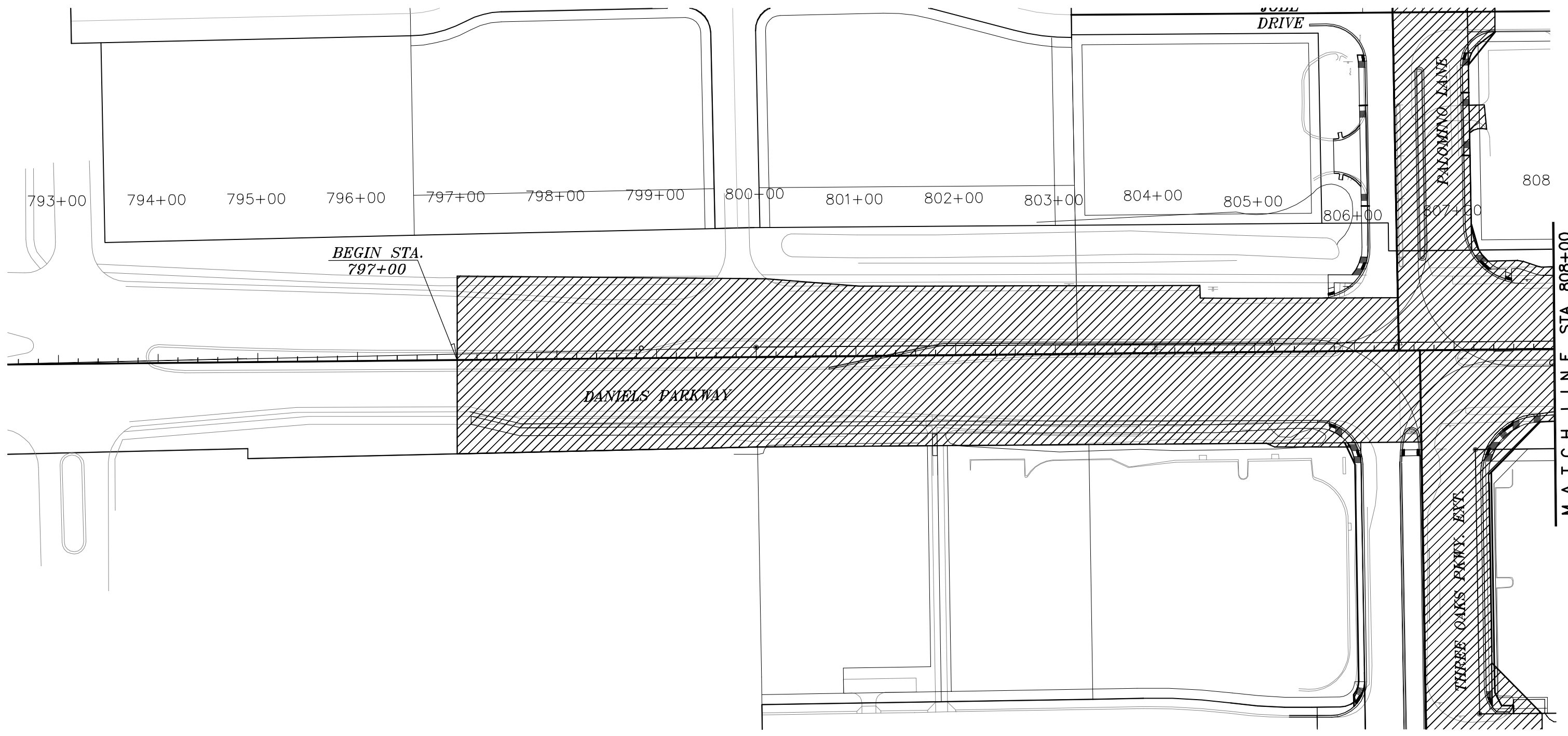
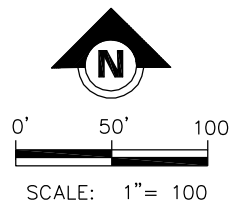
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**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**PHASING PLAN**  
**PHASE I**

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**117 OF 121**



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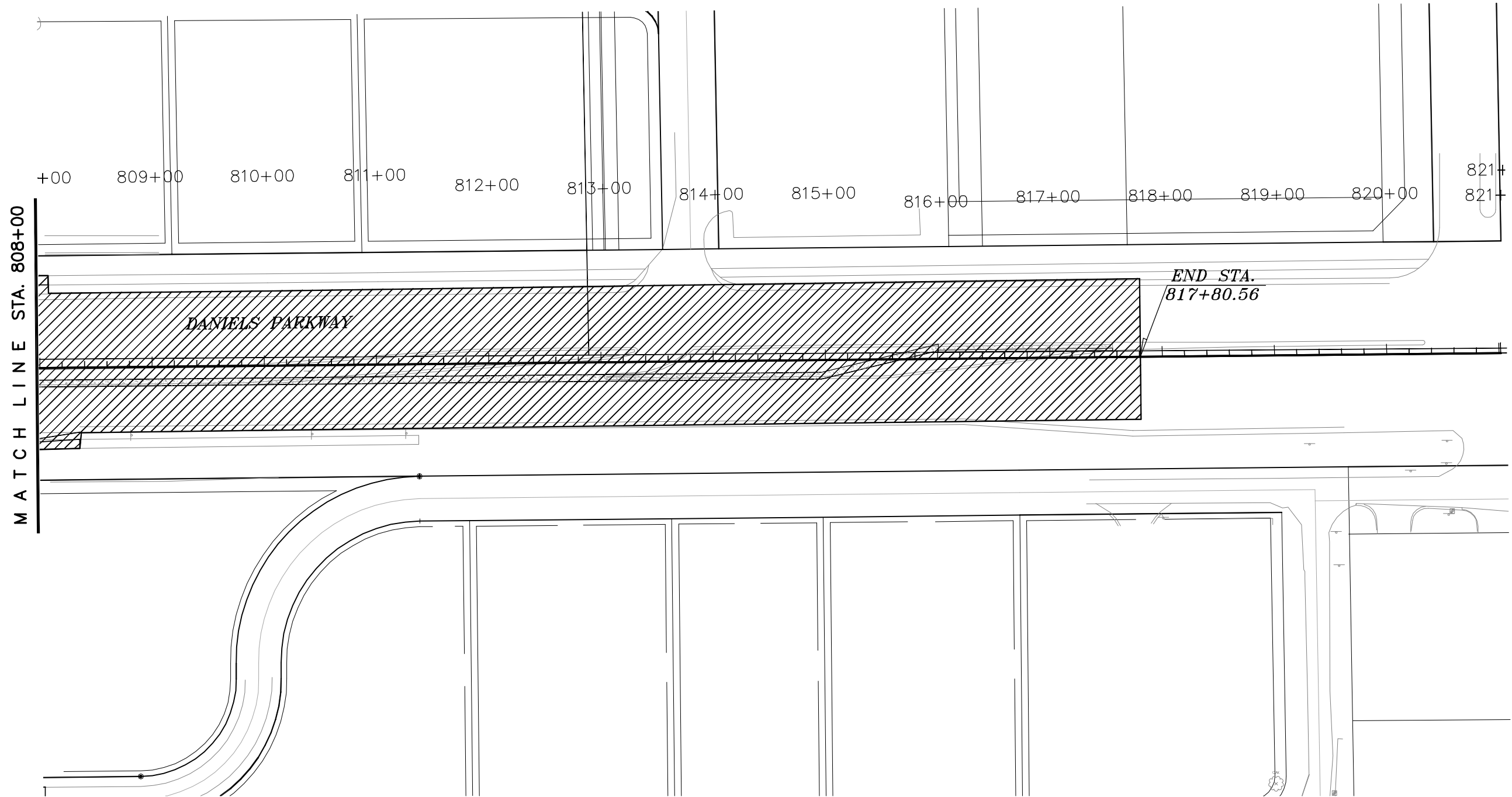
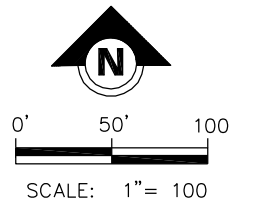
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**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**PHASING PLAN**  
**PHASE I**

SHEET  
**118 OF 121**

**LEGEND**  
[Hatched Box] WORK AREA



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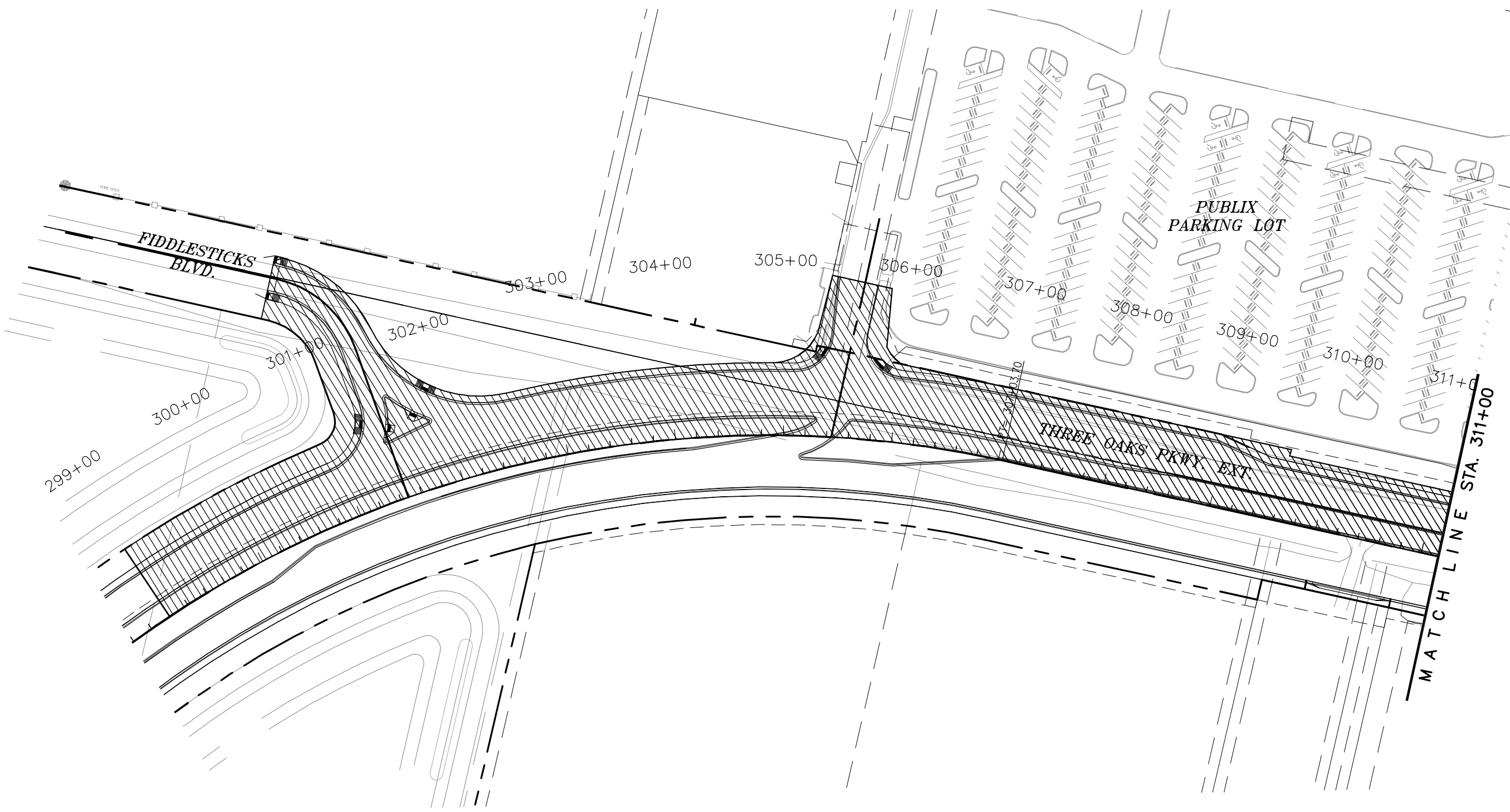
**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**PHASING PLAN**  
**PHASE I**

SHEET  
**119 OF 121**



0' 50' 100'  
SCALE: 1" = 100'



**LEGEND**  
[Hatched Box] WORK AREA

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**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

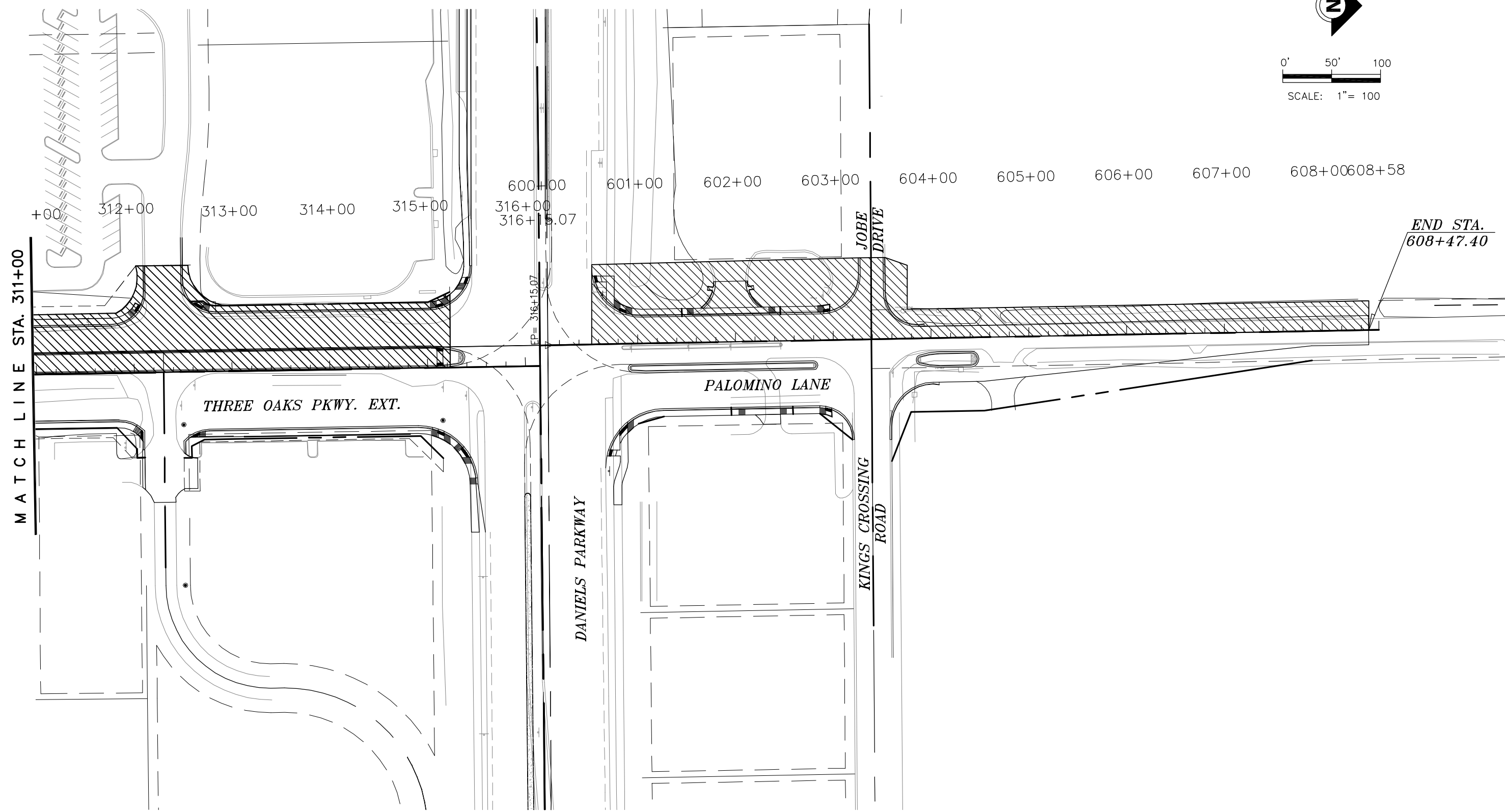
**PHASING PLAN**  
**PHASE II**

SHEET  
**120 OF 121**





0' 50' 100'  
SCALE: 1"= 100'



**LEGEND**  
 WORK AREA

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**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**PHASING PLAN**  
**PHASE II**

SHEET  
**121 OF 121**

# CONSTRUCTION PLANS

## THREE OAKS PARKWAY EXTENSION AIRPORT CANAL TO DANIELS PKWY.

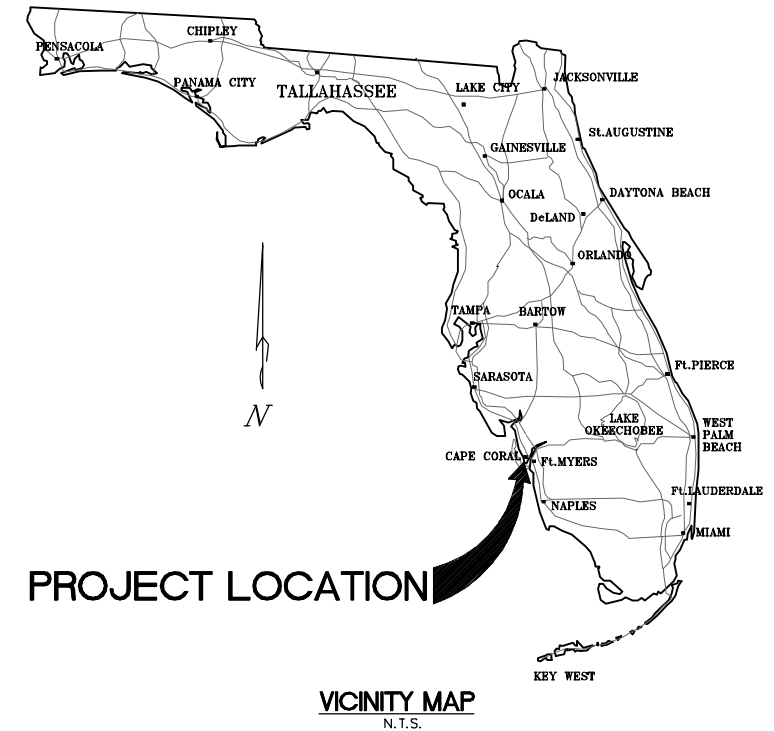
### LEE COUNTY PROJECT NO. 4053



<b>BOARD OF LEE COUNTY COMMISSIONERS</b>				
District ONE	District TWO	District THREE	District FOUR	District FIVE
<i>Bob Janes</i>	<i>Brian Bigelow</i>	<i>Ray Judah</i>	<i>Tammy Hall</i>	<i>Frank Mann</i>

**INTERIM LEE COUNTY MANAGER**  
*Karen Hawes*

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
*Scott M. Gilbertson P.E., Director*  
*Eyra Cash, P.E., Project Manager*



## SIGNING AND PAVEMENT MARKING PLANS

### INDEX OF SIGNING AND PAVEMENT MARKING PLANS

S-1	KEY SHEET
S-2 TO S-3	TABULATION OF QUANTITIES
S-4	GENERAL NOTES
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S-7 TO S-26	SIGNING AND PAVEMENT MARKING PLANS
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ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

EXCEPT WHERE OTHERWISE INDICATED BY SPECIAL PROVISION. THE GOVERNING SPECIFICATIONS SHALL BE: STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, DATED 2007, DESIGN STANDARDS DATED 2008 AND SUPPLEMENTS THERETO IF NOTED IN THE SPECIAL PROVISIONS FOR THIS PROJECT.

ROADWAY PLANS  
ENGINEER OF RECORD: JACK SCHRAGER, P.E.  
FL. LICENSE NO. \_\_\_\_\_24070\_\_\_\_\_

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DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372	DATE:
PROJ. MGR. Jack Schrager, PE	
PROJ. DIR. _____	
APPROVED:	

<b>AVALON ENGINEERING, INC.</b>
2503 DEL PRADO BLVD, SUITE 200 CAPE CORAL, FLORIDA 33904 FBPE #3128 (239) 573-2077

	LEE COUNTY DEPARTMENT OF TRANSPORTATION (239) 533-8580
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THREE OAKS PARKWAY EXTENSION AIRPORT CANAL TO DANIELS PKWY. LEE COUNTY, FLORIDA
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**KEY SHEET**  
**THREE OAKS PKWY EXT.**

SHEET  
**S - 1**

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PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		REF. SHEET		
			S-7		S-8		S-9		S-10		S-11		S-12		S-13		S-14		S-15		S-16		S-17			PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL		PLAN	FINAL
700-20-11	SIGN SINGLE POST (LESS THAN 12 SF)	AS	2				2				4							3		3				14			
700-20-12	SIGN SINGLE POST (BETWEEN 12-20 SF)	AS	1																	2				3			
700-20-40	SIGN SINGLE POST (RELOCATE)	EA																									
700-21-11	SIGN MULTI-POST (50 SF OR LESS)	AS																1				1		2			
700-48-19	SIGN PANEL (16 TO 100 SF)	EA																1				1		2			
706-3	MARKER PAVEMENT RETRO REFLECTIVE (ALL COLORS)	EA	87		69		70		70		70		70		70		70		98		172		35		881		
710-11-290	REFLECTIVE PAINT (ISLAND NOSE) (YELLOW)	SF																		42				42			
711-11-160	PAVEMENT MESSAGES, THERMOPLASTIC	EA																									
711-11-170	DIRECTIONAL ARROWS, THERMOPLASTIC	EA	5															8		11				24			
711-11-180	YIELD LINES, THERMOPLASTIC	LF																									
711-11-111	SOLID TRAFFIC STRIPE, THERMOPLASTIC (6" WHITE)	NM	0.527		0.523		0.530		0.530		0.530		0.530		0.530		0.530		0.677		0.471		0.265		5.640		
711-11-122	SOLID TRAFFIC STRIPE, THERMOPLASTIC (8" WHITE)	LF																			795				795		
711-11-123	SOLID TRAFFIC STRIPE, THERMOPLASTIC (12" WHITE)	LF																			795				795		
711-11-124	SOLID TRAFFIC STRIPE, THERMOPLASTIC (18" WHITE)	LF																			357				357		
711-11-125	SOLID TRAFFIC STRIPE, THERMOPLASTIC (24" WHITE)	LF																			92				92		
711-11-131	SKIP TRAFFIC STRIPE, THERMOPLASTIC (WHITE) (10/30)	GM	0.498		0.523		0.530		0.530		0.530		0.530		0.530		0.530		0.442		0.154		0.265		5.062		
711-11-141	SKIP TRAFFIC STRIPE, THERMOPLASTIC (WHITE) (6/10)	LF	85																87		35		46		253		
711-11-151	GUIDE LINES, THERMOPLASTIC (WHITE) (2/4)	LF	170																170		170				510		
711-11-211	SOLID TRAFFIC STRIPE, THERMOPLASTIC (6" YELLOW)	NM	0.505		0.523		0.530		0.530		0.530		0.530		0.530		0.530		0.477		0.229		0.267		5.181		
711-11-222	SOLID TRAFFIC STRIPE, THERMOPLASTIC (8" YELLOW)	LF																			62				62		
711-11-224	SOLID TRAFFIC STRIPE, THERMOPLASTIC (18" YELLOW)	LF																			34				34		
711-11-231	SKIP TRAFFIC STRIPE, THERMOPLASTIC (YELLOW) (10/30)	GM																									
711-11-251	GUIDE LINES, THERMOPLASTIC (YELLOW) (2/4)	LF																			262				262		

DATE	BY	REVISION DESCRIPTION
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**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

LEE COUNTY DEPARTMENT  
OF  
TRANSPORTATION  
(239) 533-8580

THREE OAKS PARKWAY EXTENSION  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**TABULATION OF QUANTITIES**  
**THREE OAKS PKWY EXT.**

SHEET  
**S - 2**

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PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																		TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
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			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL					
700-20-11	SIGN SINGLE POST (LESS THAN 12 SF)	AS	2		9		5		10		1				3		1				31		45		
700-20-12	SIGN SINGLE POST (BETWEEN 12-20 SF)	AS			2				4						2						8		11		
700-20-40	SIGN SINGLE POST (RELOCATE)	EA					3		9		1				2					15		15			
700-21-11	SIGN MULTI-POST (50 SF OR LESS)	AS	1		3								1				1			6		8			
700-48-19	SIGN PANEL (16 SF TO 100 SF)	EA					1						1				1			3		5			
706-3	MARKER PAVEMENT RETRO REFLECTIVE (ALL COLORS)	EA	31		153		161		132		44		23		94		126		19	783		1664			
710-11-290	REFLECTIVE PAINT (ISLAND NOSE) (YELLOW)	SF			8				155						18					181		223			
711-11-160	PAVEMENT MESSAGES, THERMOPLASTIC	EA			2		10		11		2		3		9		11		2	50		50			
711-11-170	DIRECTIONAL ARROWS, THERMOPLASTIC	EA			10		21		17		2		2		14		19		4	89		113			
711-11-180	YIELD LINES, THERMOPLASTIC (WHITE)	LF			17		6													23		23			
711-11-111	SOLID TRAFFIC STRIPE, THERMOPLASTIC (6" WHITE)	NM	0.235		0.484		0.746		0.387		0.160		0.112		0.486		0.716		0.189	3.515		9.155			
711-11-122	SOLID TRAFFIC STRIPE, THERMOPLASTIC (8" WHITE)	LF			854		269		428											1551		2346			
711-11-123	SOLID TRAFFIC STRIPE, THERMOPLASTIC (12" WHITE)	LF			299		160		629						540					1628		2423			
711-11-124	SOLID TRAFFIC STRIPE, THERMOPLASTIC (18" WHITE)	LF			527		136		332											995		1352			
711-11-125	SOLID TRAFFIC STRIPE, THERMOPLASTIC (24" WHITE)	LF			26		51		166						148					391		483			
711-11-131	SKIP TRAFFIC STRIPE, THERMOPLASTIC (WHITE) (10/30)	GM	0.235		0.257		0.180		0.109				0.132		0.058		0.512		0.084	1.567		6.629			
711-11-141	SKIP TRAFFIC STRIPE, THERMOPLASTIC (WHITE) (6/10)	LF	59		110		-		-		132		55		156		210		30	752		1005			
711-11-151	GUIDE LINES, THERMOPLASTIC (WHITE) (2/4)	LF			318		440		947								113			1818		2328			
711-11-211	SOLID TRAFFIC STRIPE, THERMOPLASTIC (6" YELLOW)	NM	0.235		0.298		0.310		0.244		0.053		0.066		0.111		0.288		0.037	1.642		6.823			
711-11-222	SOLID TRAFFIC STRIPE, THERMOPLASTIC (8" YELLOW)	LF			351		66		139		300				194					1050		1112			
711-11-224	SOLID TRAFFIC STRIPE, THERMOPLASTIC (18" YELLOW)	LF			100		30		91		76				145					442		476			
711-11-231	SKIP TRAFFIC STRIPE, THERMOPLASTIC (YELLOW) (10/30)	GM									0.016									0.016		0.016			
711-11-251	GUIDE LINES, THERMOPLASTIC (YELLOW) (2/4)	LF							532											532		794			

DATE	BY	REVISION DESCRIPTION
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**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE#3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**TABULATION OF QUANTITIES**  
**THREE OAKS PKWY EXT.**

SHEET  
**S - 3**

SIGNING AND PAVEMENT MARKING GENERAL NOTES:

1. THE IMPLEMENTATION OF THE SIGNING AND PAVEMENT MARKING PLANS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE 2007 EDITION OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE JANUARY 2008 EDITION OF THE FDOT DESIGN STANDARDS.
2. TEMPORARY PAVEMENT MARKINGS SHALL CONFORM TO TECHNICAL PROVISION 710 - PAINTED TRAFFIC STRIPES AND MARKINGS.
3. ALL STRIPING SHALL BE APPLIED BEFORE RAISED REFLECTIVE PAVEMENT MARKERS (RPMS) ARE INSTALLED.
4. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
5. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH INDEX NO. 17346.
6. PLACEMENT OF RPMS SHALL BE IN ACCORDANCE WITH INDEX NO. 17352.
7. ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH INDEX NO. 700.
8. SIGN ASSEMBLY LOCATIONS WHICH ARE IN CONFLICT WITH LIGHTING, UTILITIES, DRIVEWAYS, CURB CUTS, ETC. MAY BE ADJUSTED BY THE ENGINEER IN ACCORDANCE WITH THE MUTCD.
9. ALL SIGNS SHALL BE NEW, UNLESS OTHERWISE NOTED. THE EXISTING SIGNS SHALL BE SALVAGED, DISMANTLED AND DELIVERED TO LEE COUNTY.
10. OFFSETS SHOWN ON THE PLANS ARE FROM THE CENTERLINE OF CONSTRUCTION.
11. MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND END OF THE PROJECT, AT THE EXCEPTION, AND AT ALL SIDE STREETS.
12. ANY EXISTING PAVEMENT MARKINGS TO REMAIN, WHICH ARE DAMAGED DURING CONSTRUCTION, SHALL BE REFURBISHED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.
13. THE FOLLOWING ABBREVIATIONS ARE USED ON THESE PLANS:  
 RPMS - RAISED REFLECTIVE PAVEMENT MARKERS  
 BD C/R - BI-DIRECTIONAL COLORLESS RED  
 MD/A - MONO-DIRECTIONAL AMBER  
 A/A - AMBER AMBER

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DATE	BY	REVISION DESCRIPTION
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**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

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APPROVED:	

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 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

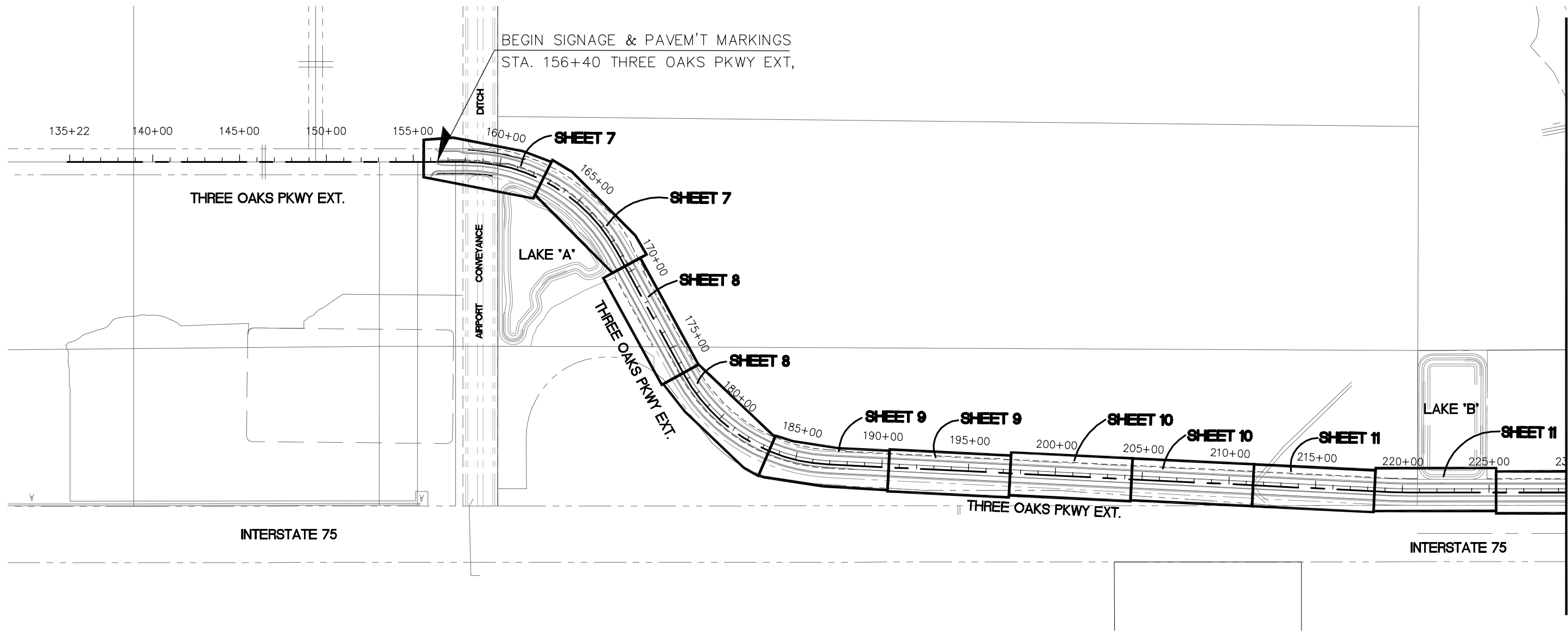
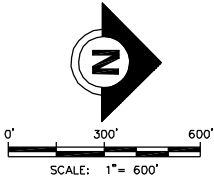


LEE COUNTY DEPARTMENT  
OF  
TRANSPORTATION  
(239) 533-8580

THREE OAKS PARKWAY EXTENSION  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**GENERAL NOTES**  
**THREE OAKS PKWY EXT.**

SHEET  
**S - 4**



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FL LICENSE No. 24070

PROJ. 08-372 | DATE:  
 PROJ. MGR. Jack Schrager, PE  
 PROJ. DIR. \_\_\_\_\_  
 APPROVED: \_\_\_\_\_

**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
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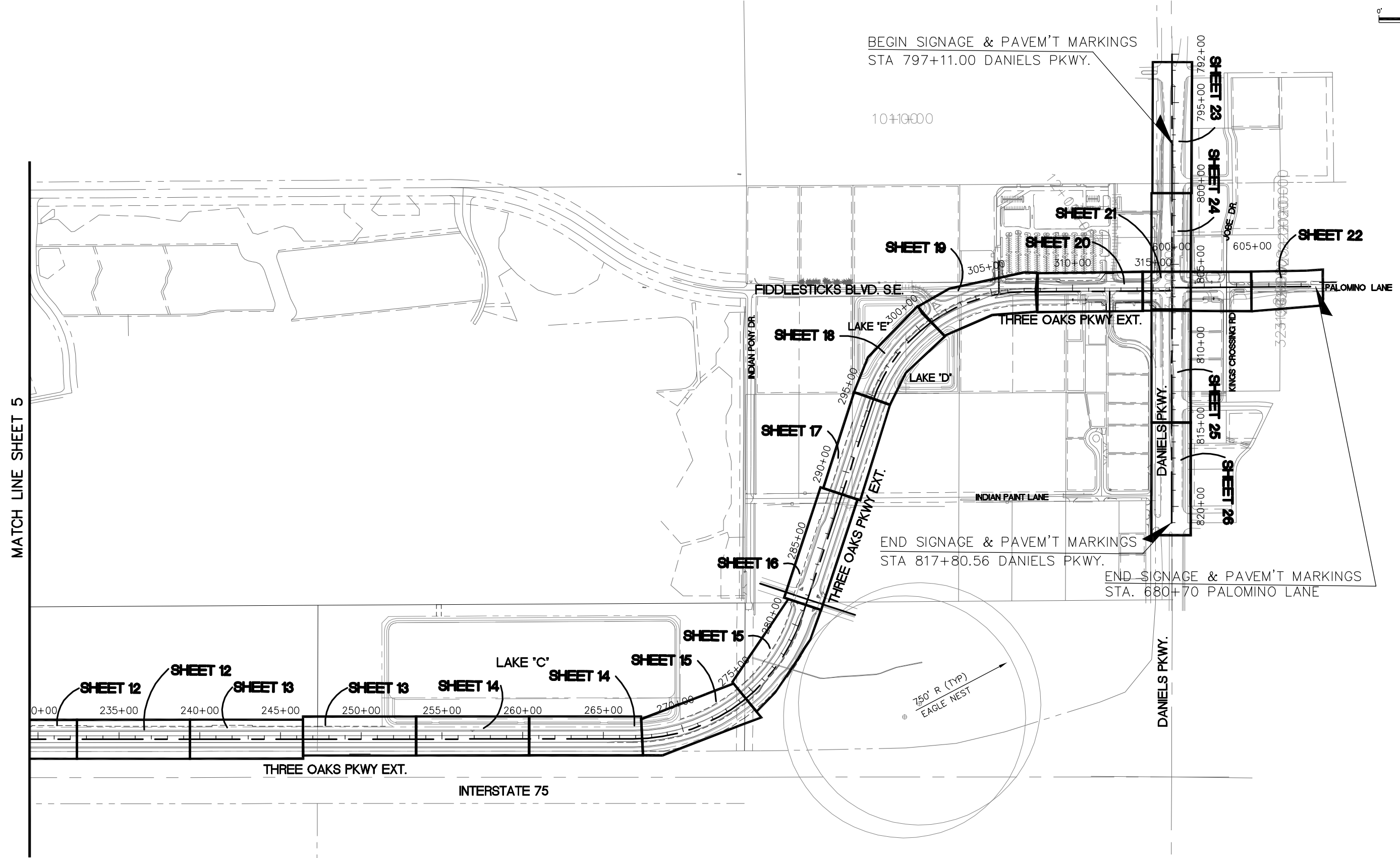
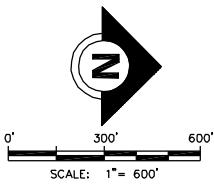
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**PROJECT LAYOUT**  
**THREE OAKS PKWY EXT.**

SHEET  
**S - 5**

MATCH LINE SHEET 6



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(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

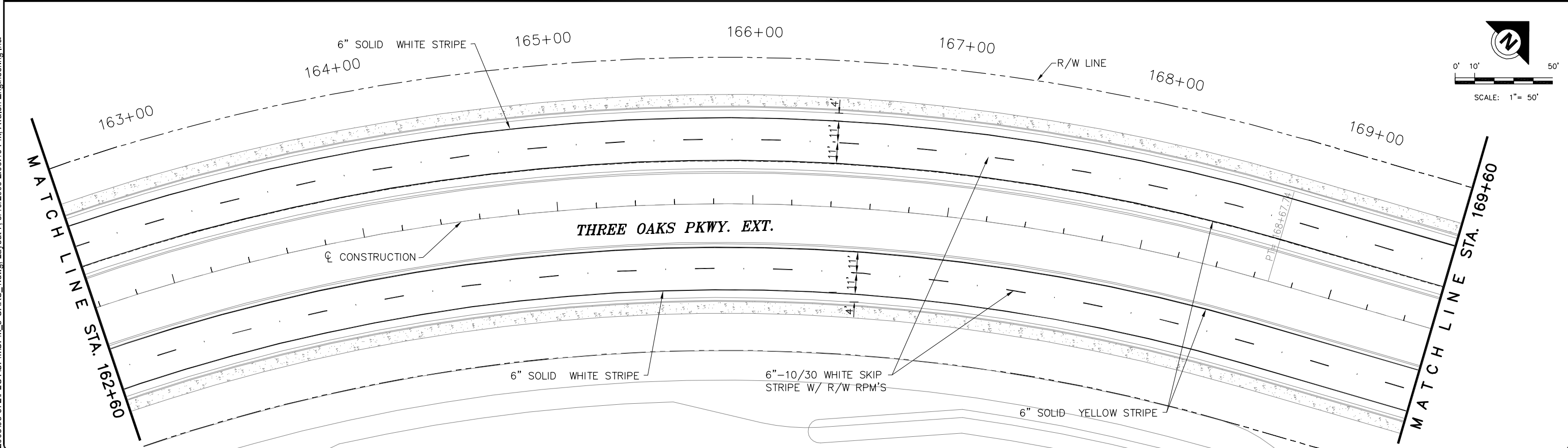
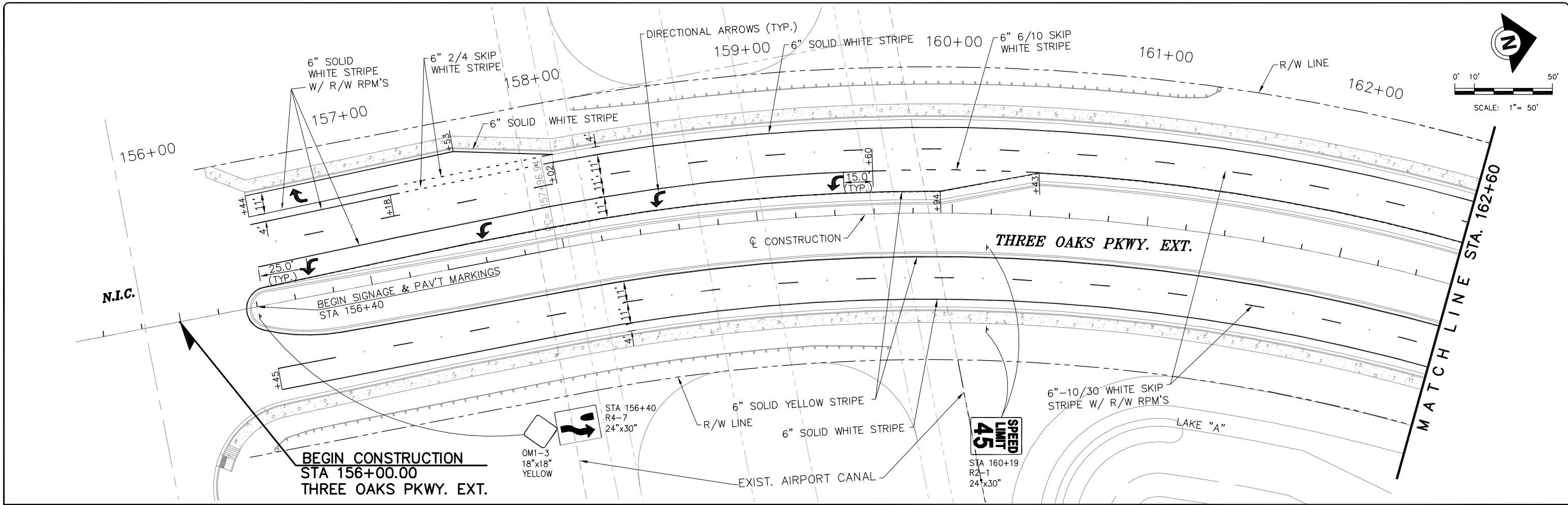
**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

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**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**PROJECT LAYOUT**  
**THREE OAKS PKWY EXT.**

SHEET  
**S - 6**



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DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

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2503 DEL PRADO BLVD, SUITE 200  
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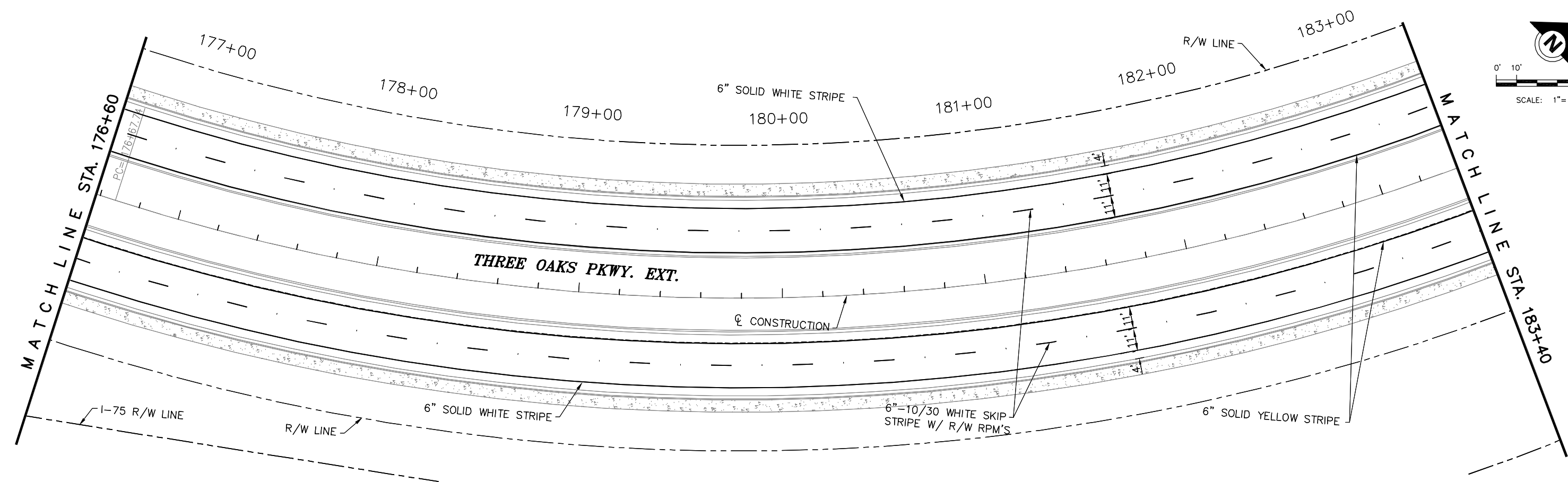
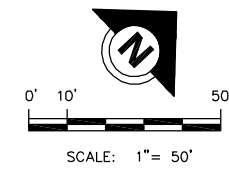
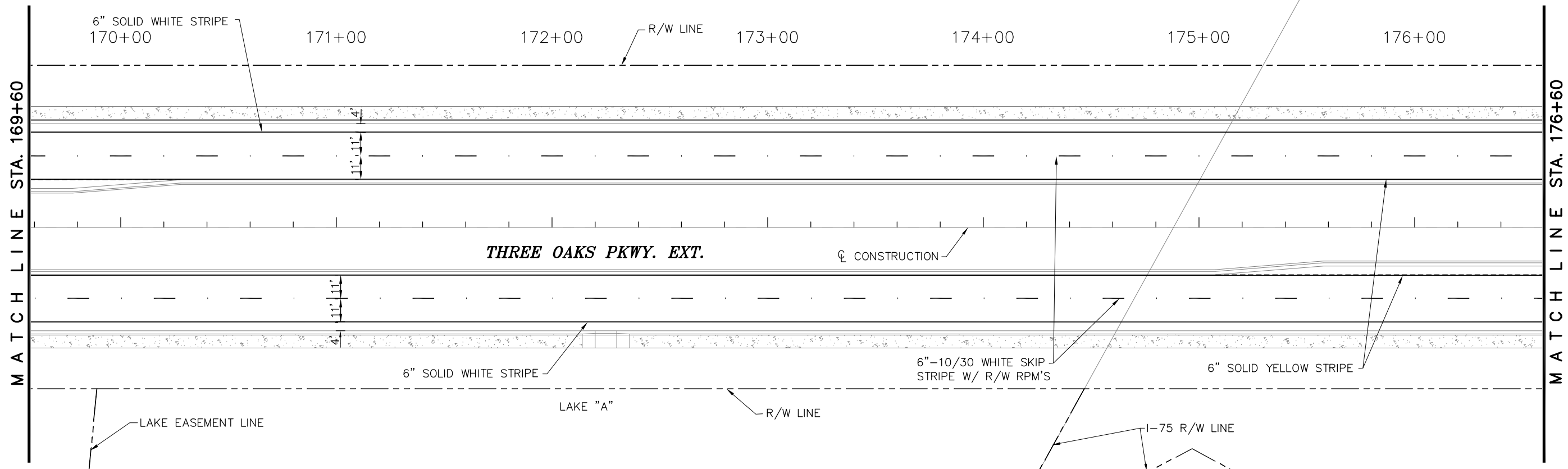
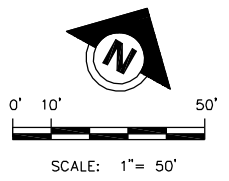
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**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**SIGNING AND PAVEMENT MARKING PLANS**  
**THREE OAKS PKWY EXT.**

SHEET  
**S - 7**





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DATE	BY	REVISION DESCRIPTION
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FL LICENSE No. 24070

PROJ. 08-372 | DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR. \_\_\_\_\_  
APPROVED: \_\_\_\_\_

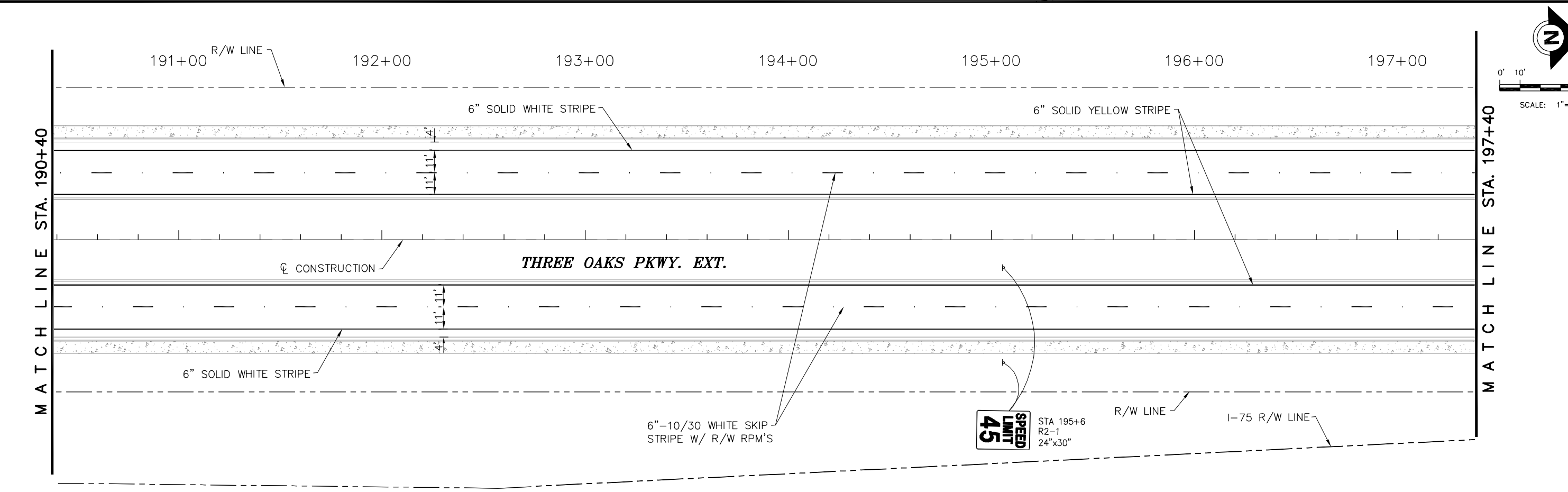
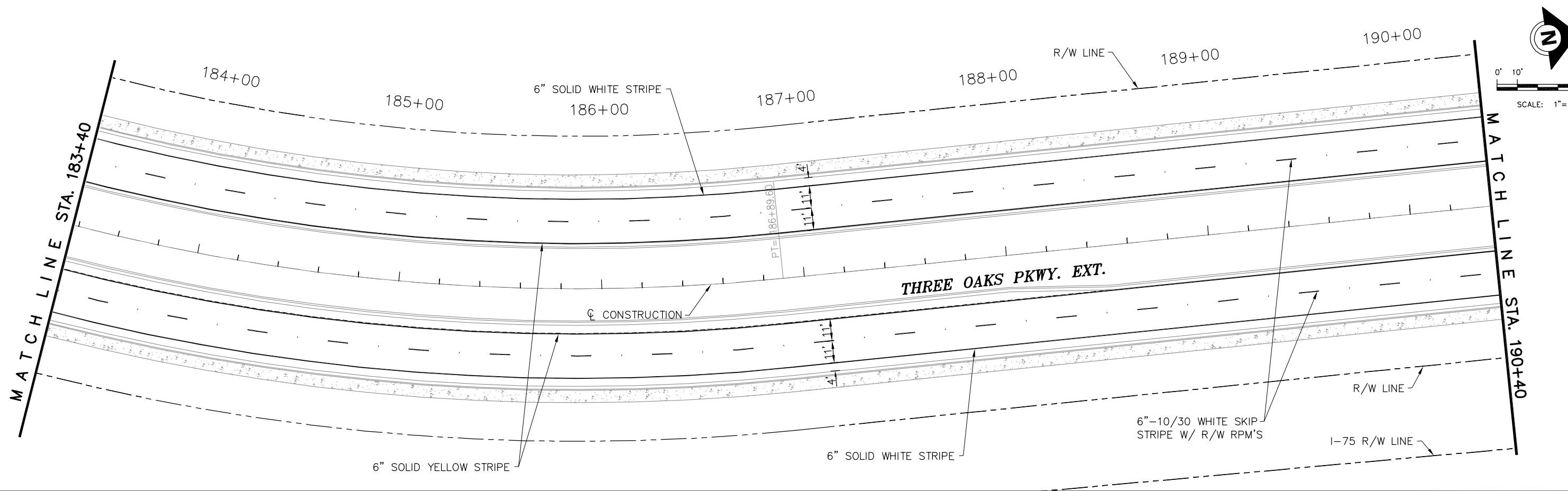
**AVALON ENGINEERING, INC.**  
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**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**SIGNING AND PAVEMENT MARKING PLANS**  
**THREE OAKS PKWY EXT.**

SHEET  
**S - 8**



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LEE COUNTY, FLORIDA

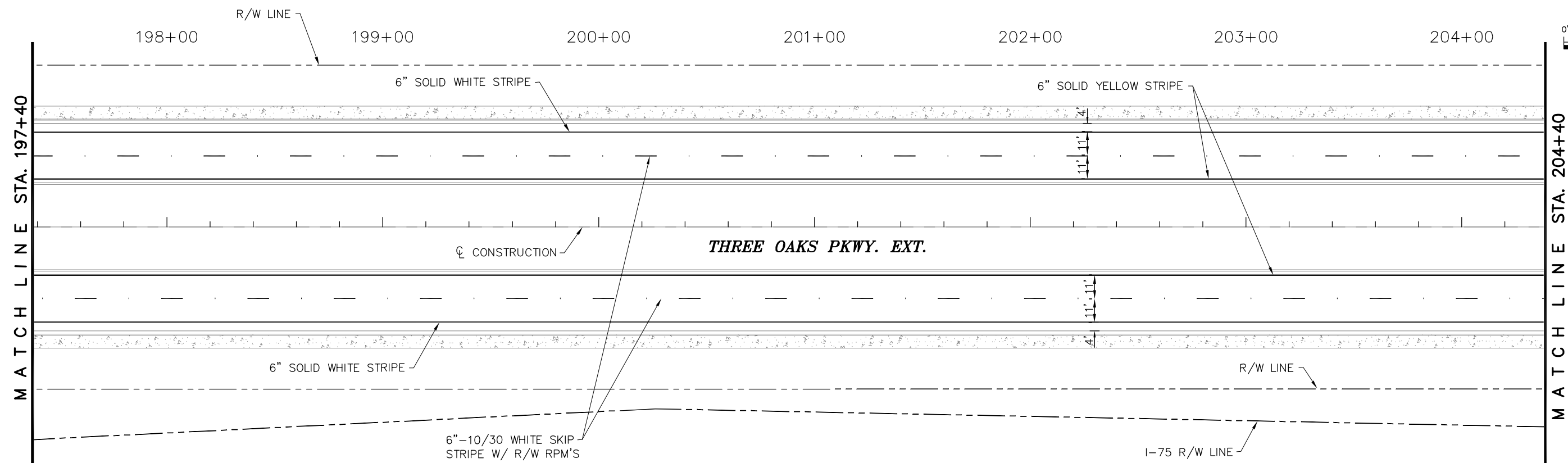
**SIGNING AND PAVEMENT MARKING PLANS**  
**THREE OAKS PKWY EXT.**

SHEET  
**S - 9**



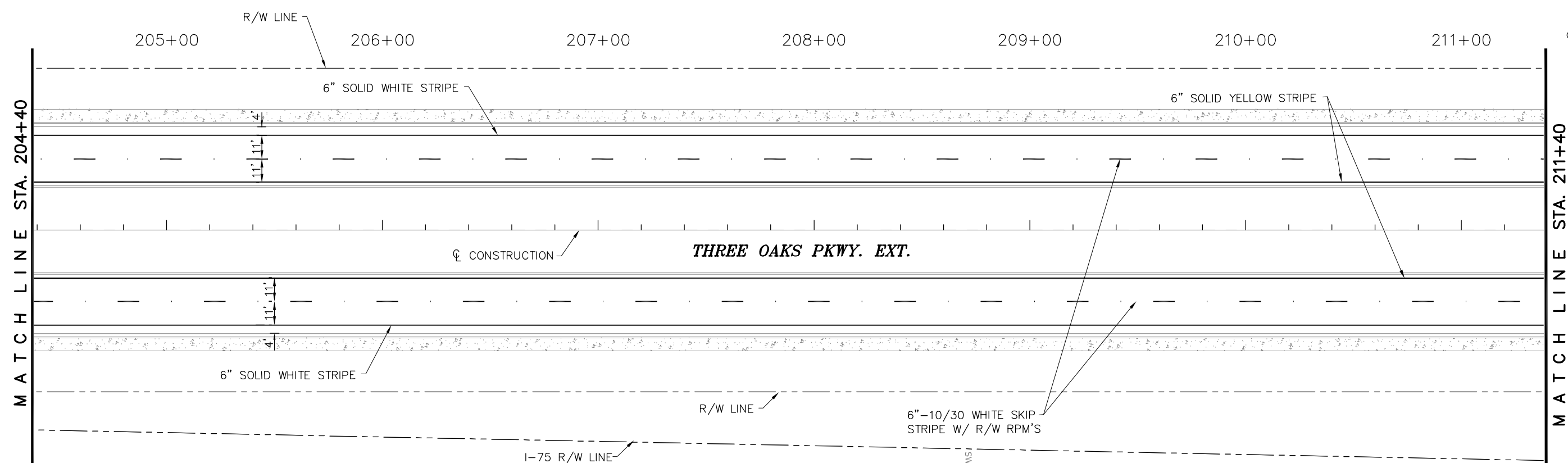
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SCALE: 1" = 50'



0' 10' 50'

SCALE: 1" = 50'



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FBPE #3128 (239) 573-2077

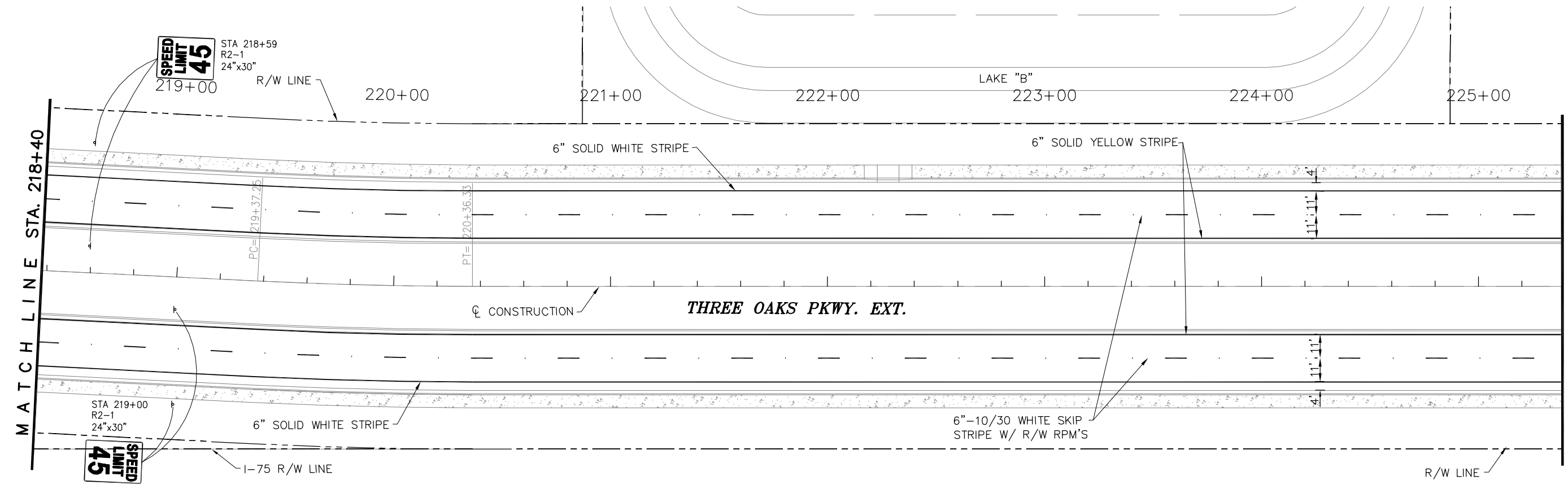
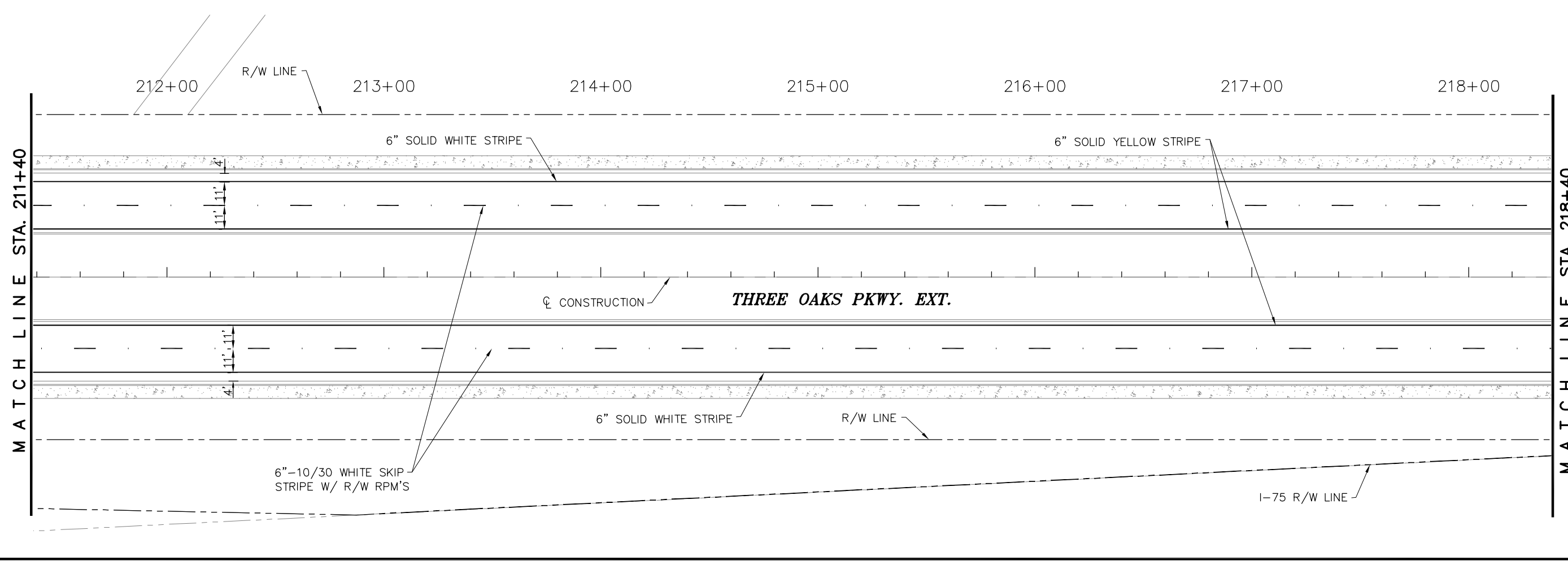
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**SIGNING AND PAVEMENT MARKING PLANS**  
**THREE OAKS PKWY EXT.**

SHEET  
**S - 10**

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DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

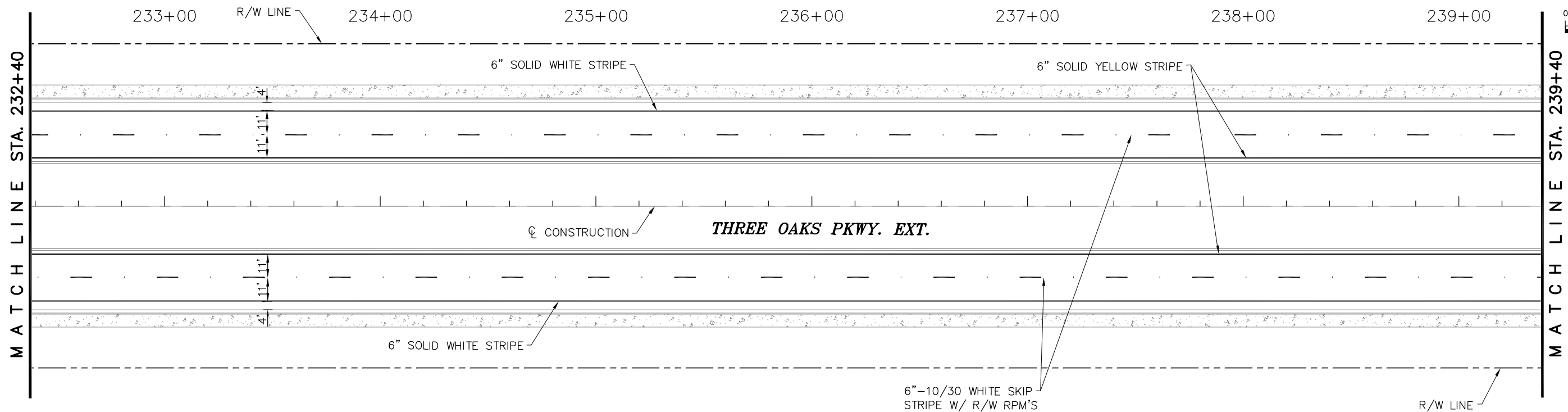
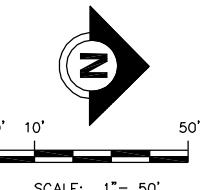
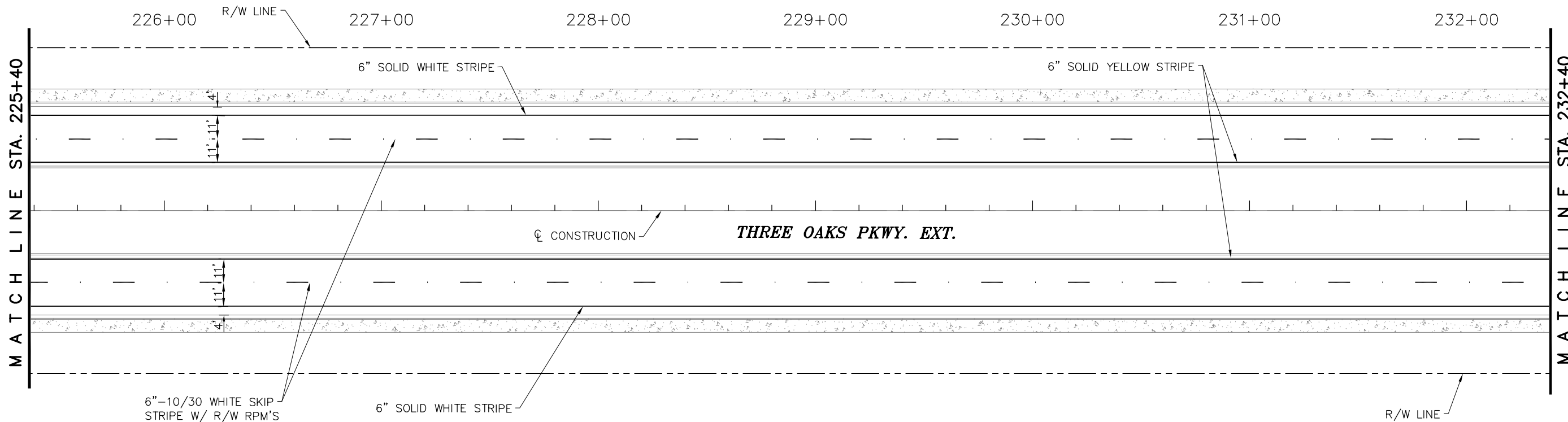
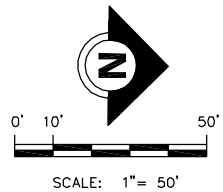
**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**SIGNING AND PAVEMENT MARKING PLANS**  
**THREE OAKS PKWY. EXT.**

SHEET  
**S - 11**



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DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 | DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR. \_\_\_\_\_  
APPROVED: \_\_\_\_\_

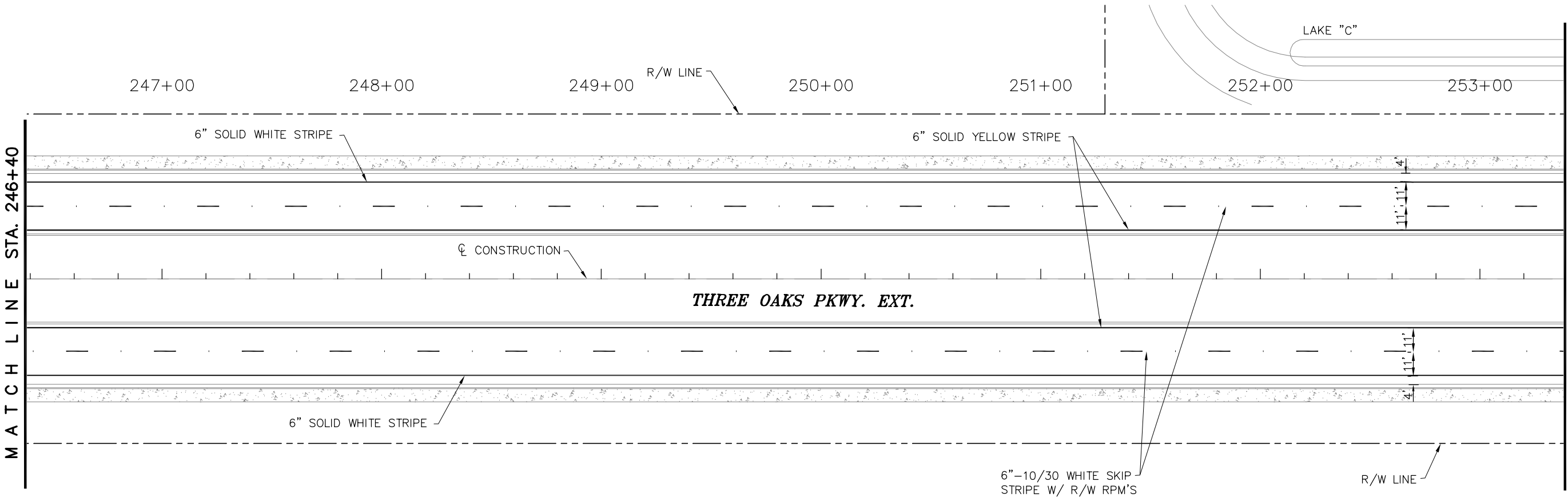
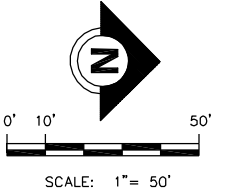
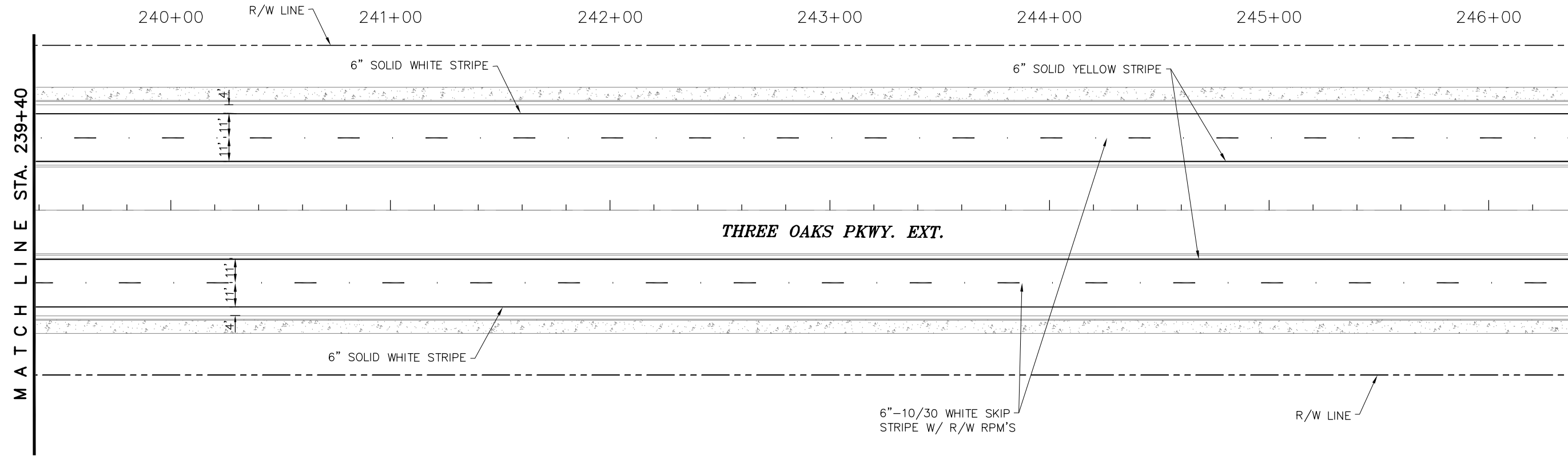
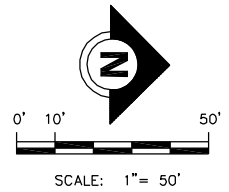
**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**SIGNING AND PAVEMENT MARKING PLANS**  
**THREE OAKS PKWY EXT.**

SHEET  
**S - 12**



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DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 | DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR. \_\_\_\_\_  
APPROVED: \_\_\_\_\_

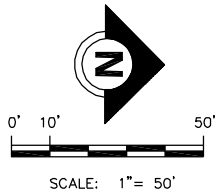
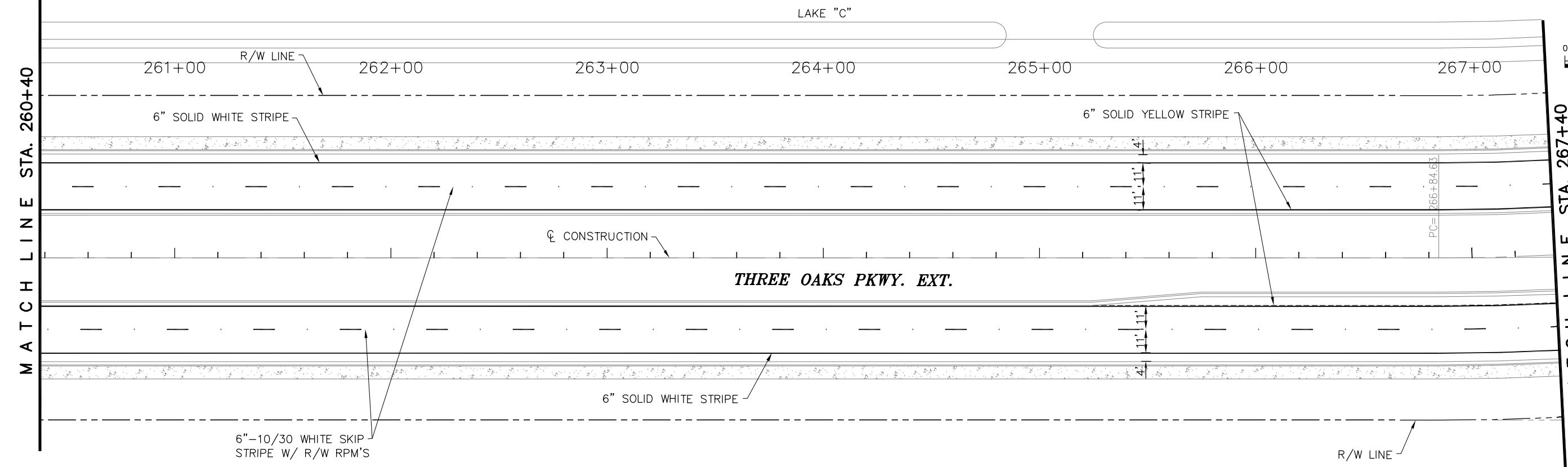
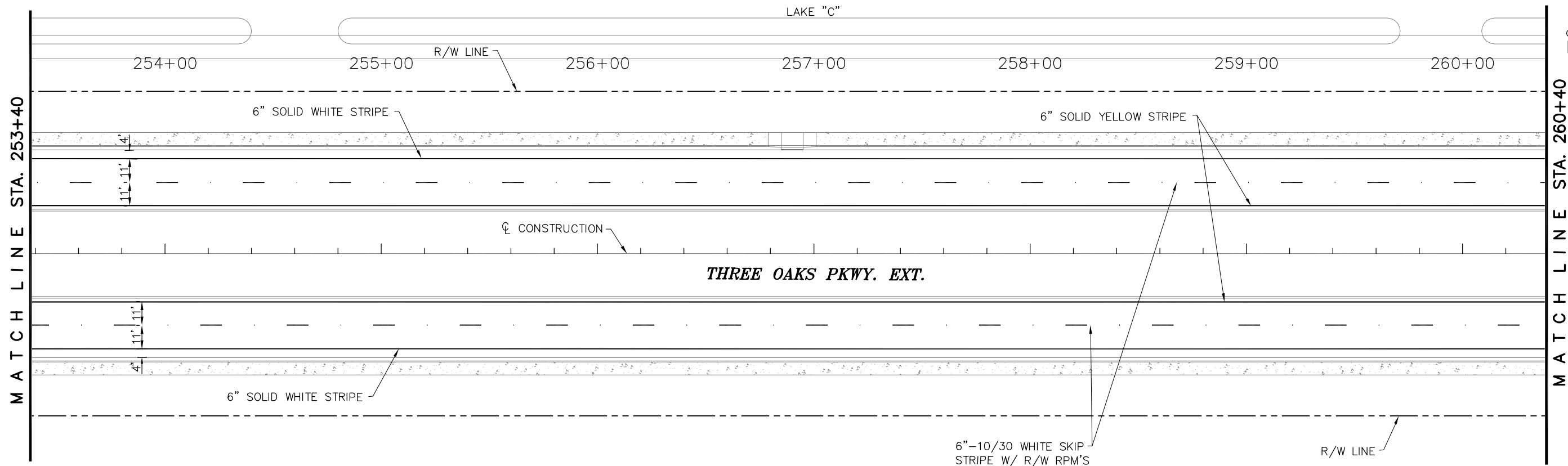
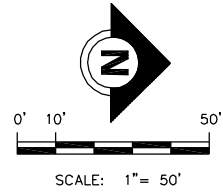
**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**SIGNING AND PAVEMENT MARKING PLANS**  
**THREE OAKS PKWY EXT.**

SHEET  
**S - 13**



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DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 | DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR. \_\_\_\_\_  
APPROVED: \_\_\_\_\_

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

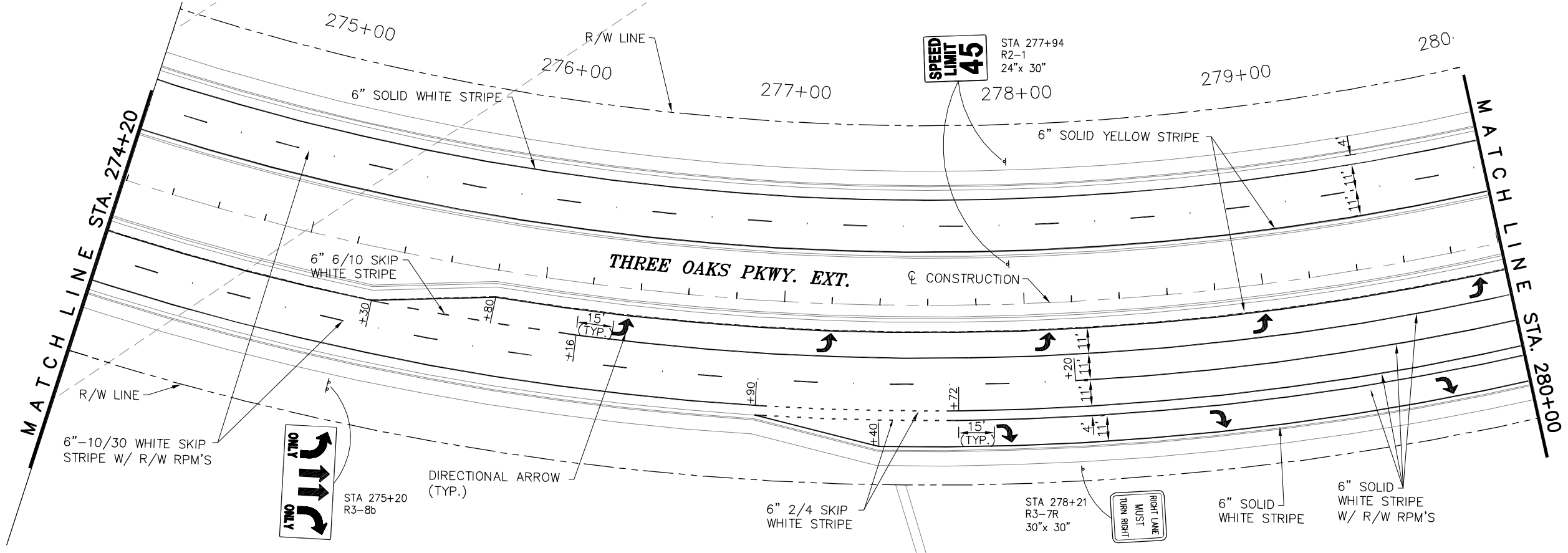
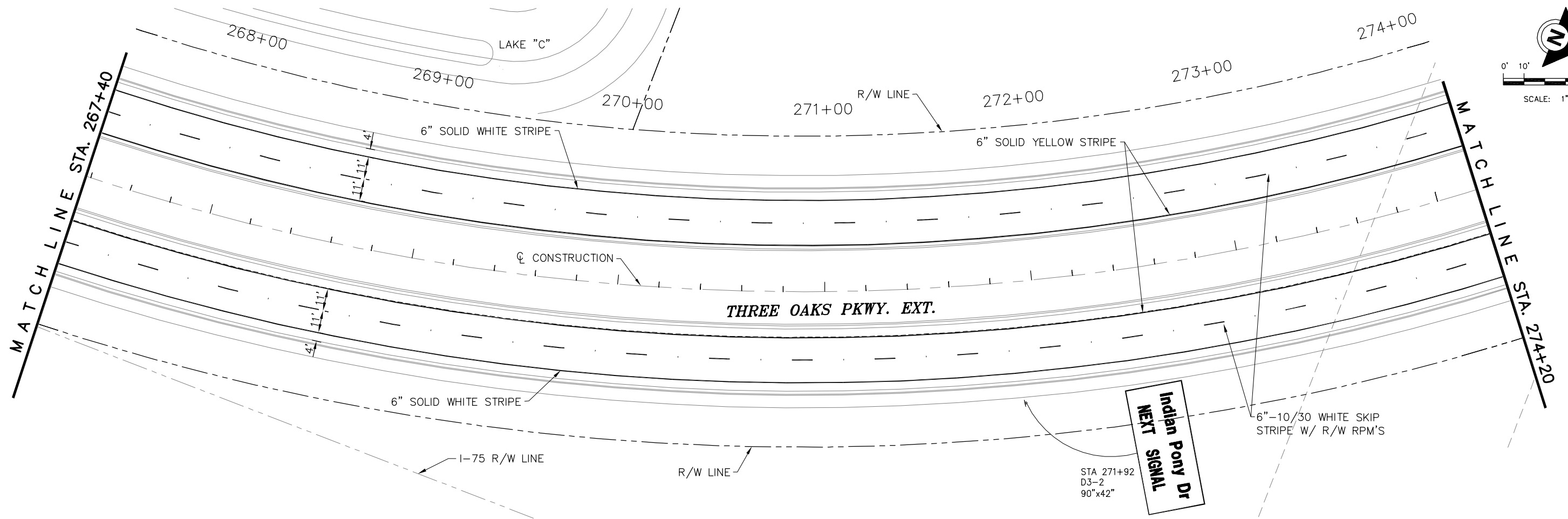
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**SIGNING AND PAVEMENT MARKING PLANS**  
**THREE OAKS PKWY EXT.**

SHEET  
**S - 14**

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DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

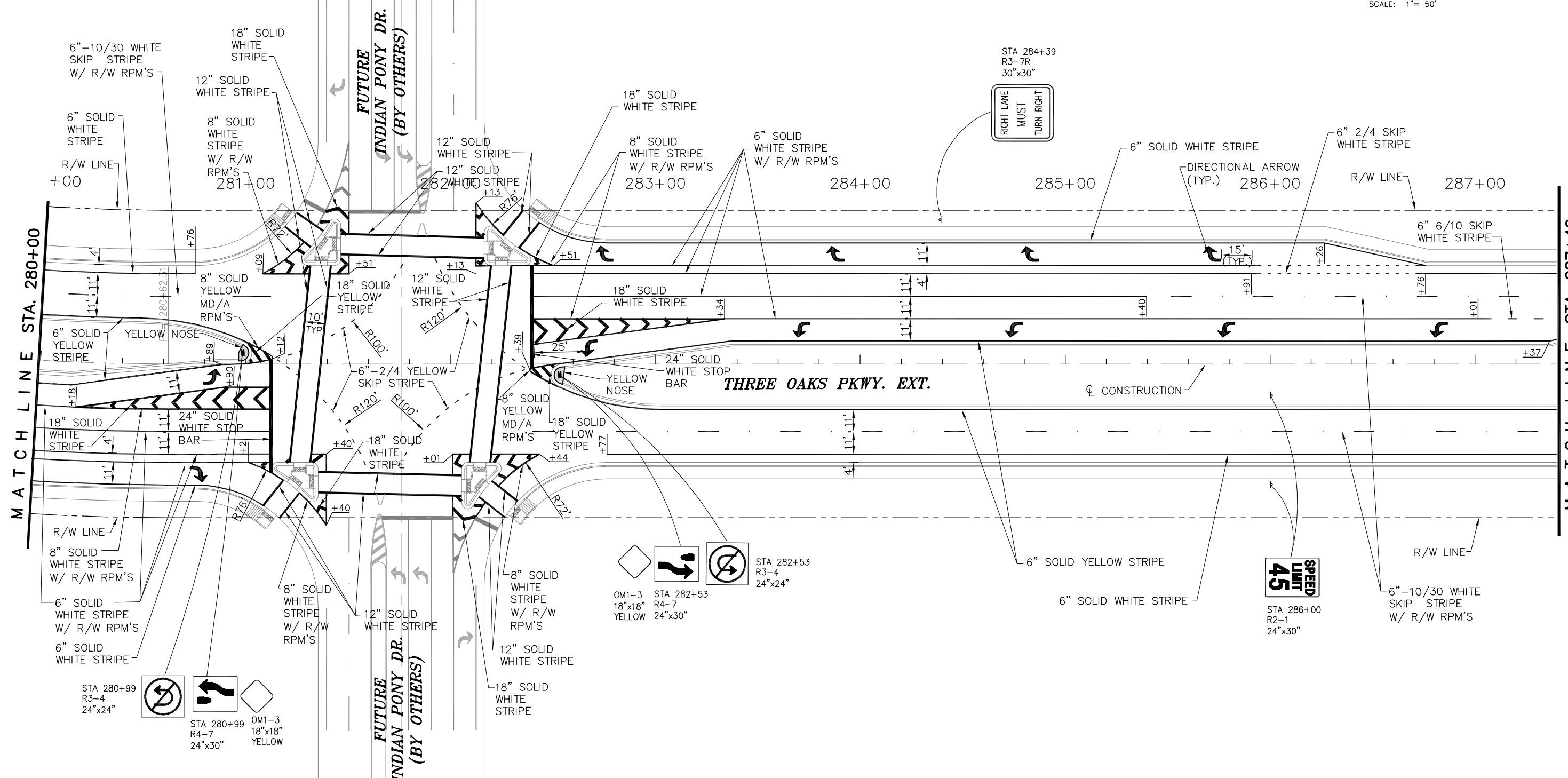
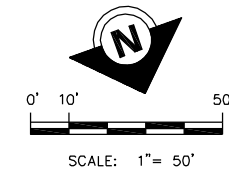
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**SIGNING AND PAVEMENT MARKING PLANS**  
**THREE OAKS PKWY EXT.**

SHEET  
**S - 15**





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DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

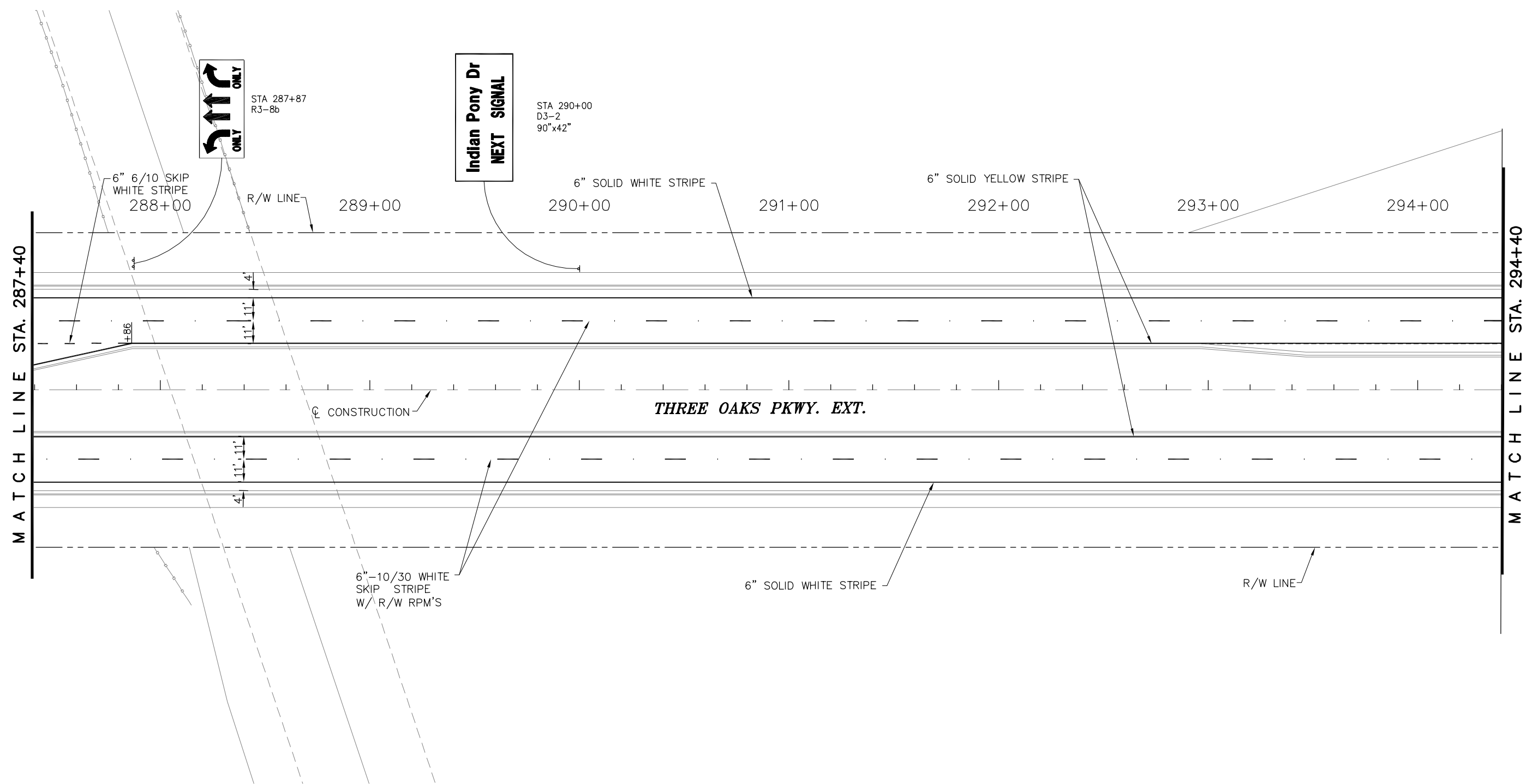
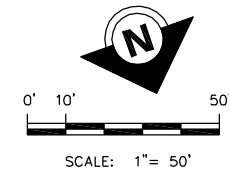
**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**SIGNING AND PAVEMENT MARKING PLANS**  
**THREE OAKS PKWY EXT.**

SHEET  
**S - 16**



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DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372	DATE:
PROJ. MGR. Jack Schrager, PE	
PROJ. DIR.	
APPROVED:	

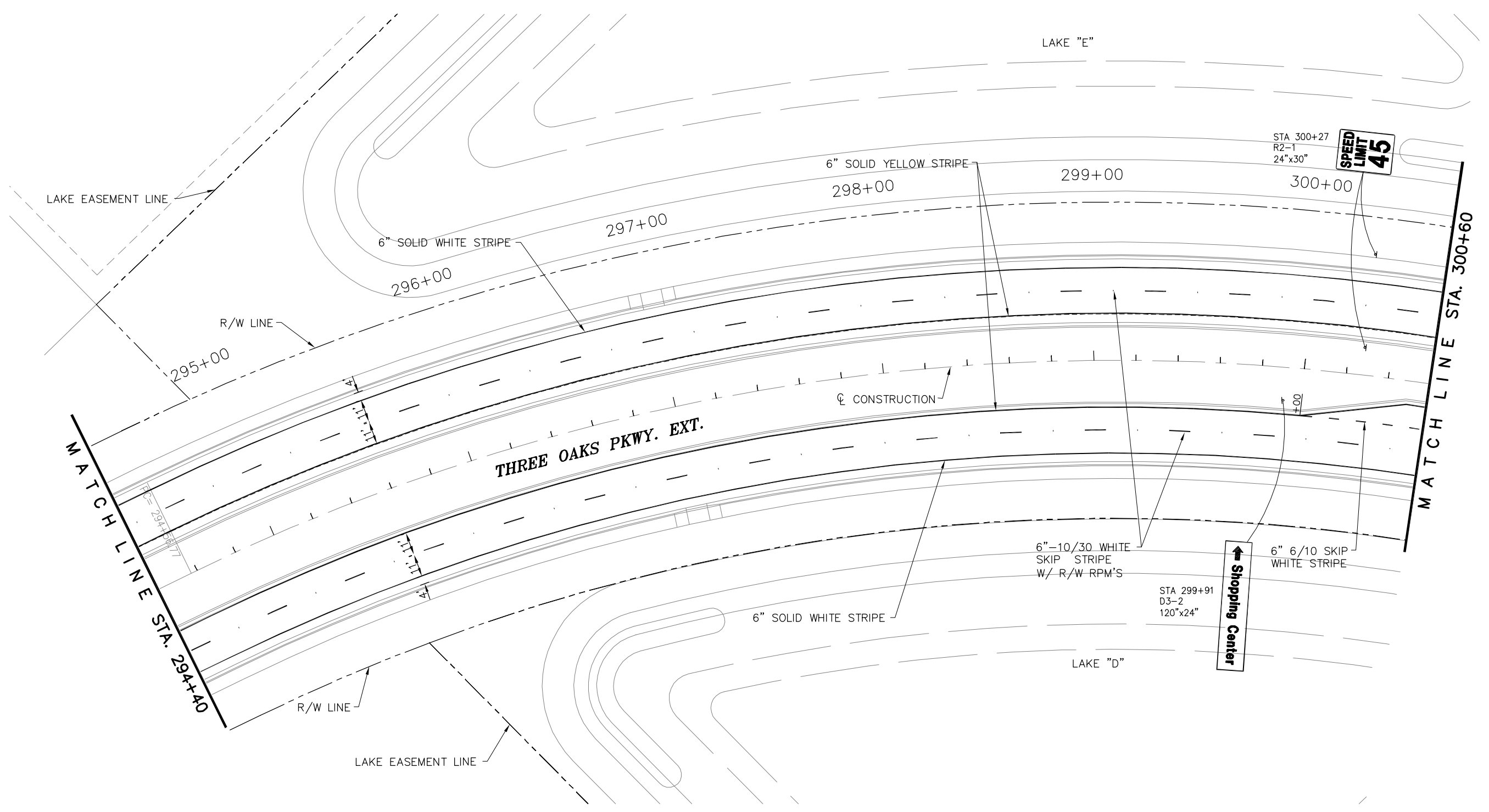
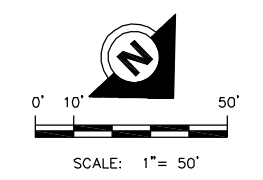
**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**SIGNING AND PAVEMENT MARKING PLANS**  
**THREE OAKS PKWY EXT.**

SHEET  
**S - 17**



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DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
 PROJ. MGR. Jack Schrager, PE  
 PROJ. DIR.  
 APPROVED:

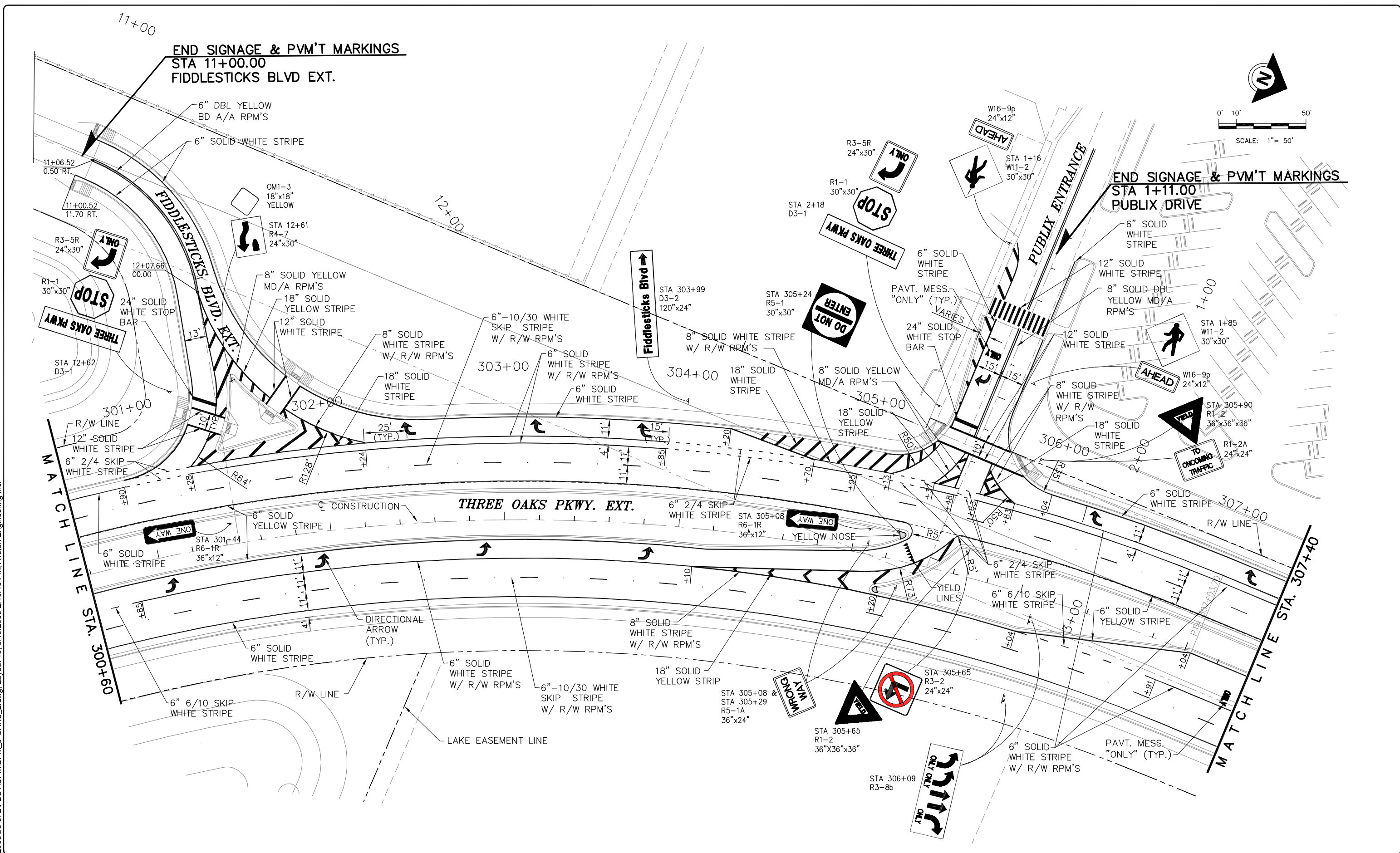
**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**SIGNING AND PAVEMENT MARKING PLANS**  
**THREE OAKS PKWY EXT.**

SHEET  
**S - 18**



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DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
 PROJ. MGR. Jack Schrage, PE  
 PROJ. DIR.  
 APPROVED:

**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

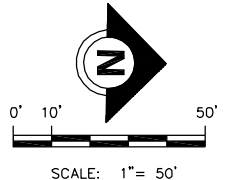
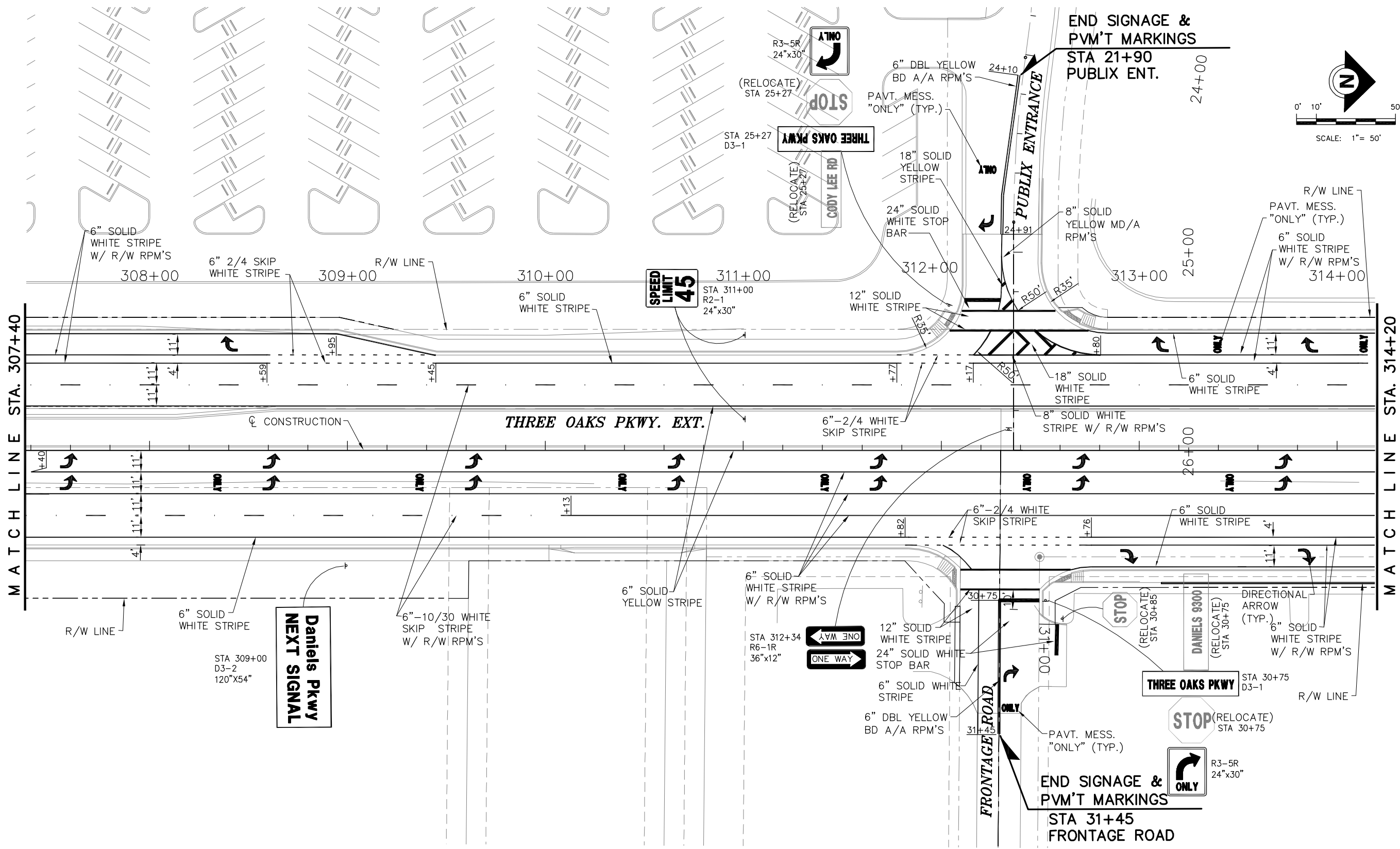
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**SIGNING AND PAVEMENT MARKING PLANS**  
**THREE OAKS PKWY EXT.**

SHEET  
**S - 19**

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DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

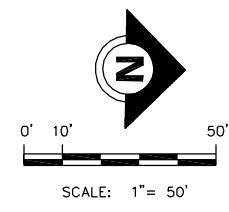
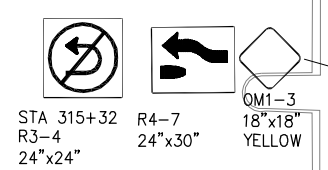
**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**SIGNING AND PAVEMENT MARKING PLANS**  
**THREE OAKS PKWY EXT.**

SHEET  
**S - 20**



**END SIGNAGE & PVM'T MARKINGS**  
 STA 501+89.52  
**JOB DRIVE**

**END SIGNAGE & PVM'T MARKINGS**  
 STA 506+00  
**KINGS CROSSING RD.**

**NOTE: SEE SHEETS S-23 THRU S-26 FOR ADDITIONAL INTERSECTION SIGNING AND PAVEMENT MARKINGS**

P:\CAD\2008\08-372\PLT\SPM\SPM\_3-OAKS\_2.dwg, Layout 21, 8/10/2009 2:10:55 PM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
 (AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
 PROJ. MGR. Jack Schragger, PE  
 PROJ. DIR.  
 APPROVED:

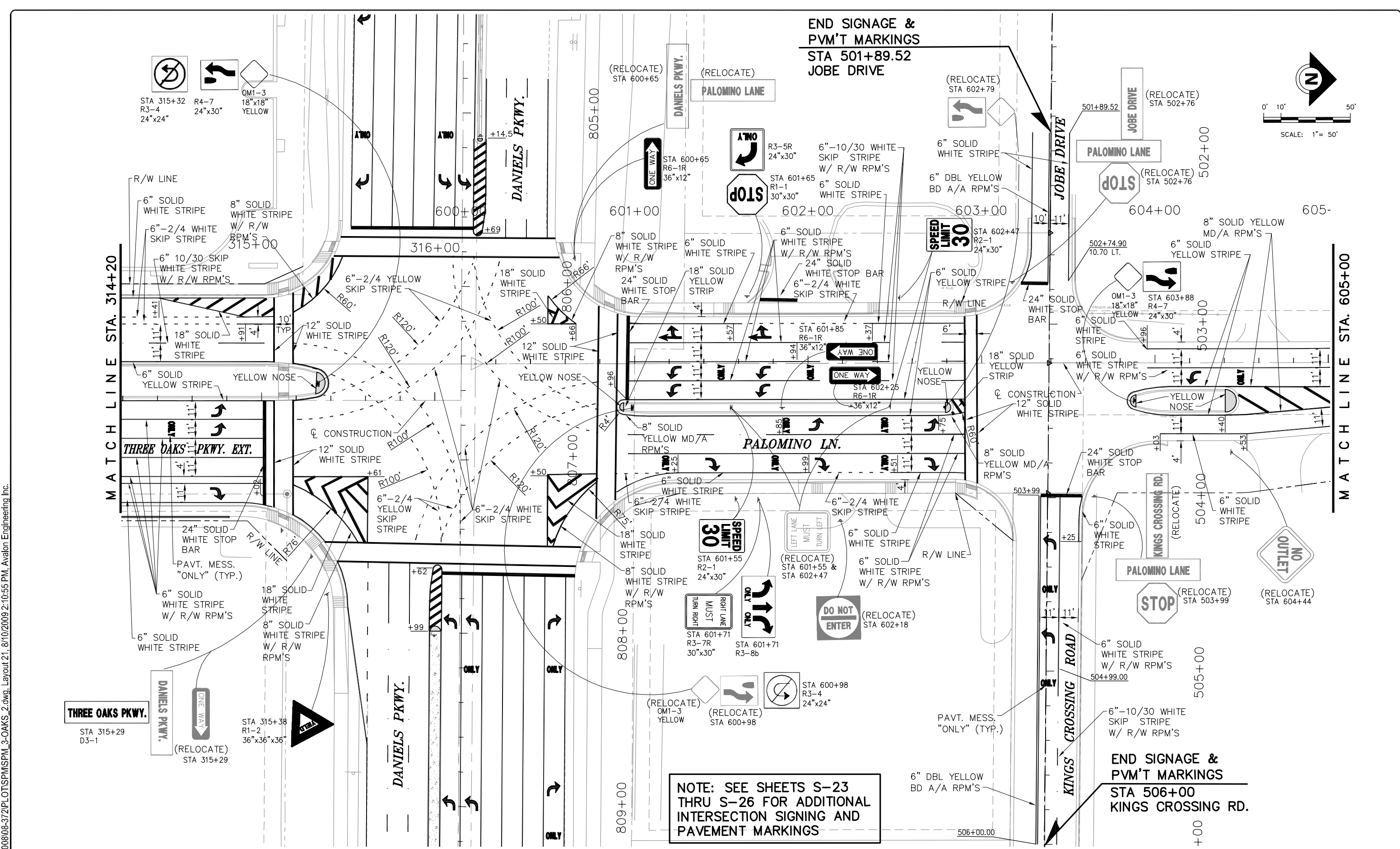
**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

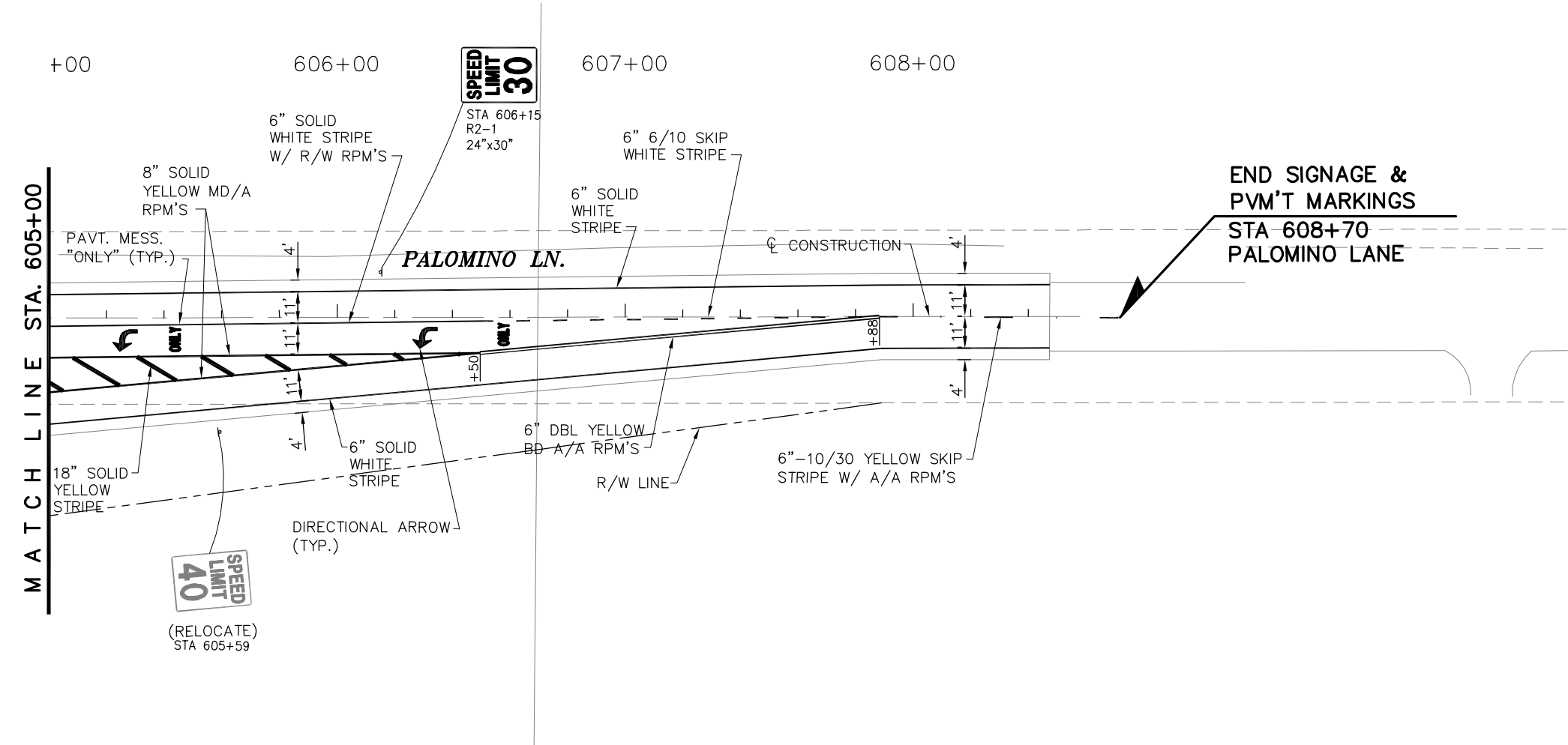
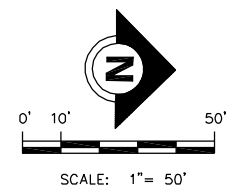
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**SIGNING AND PAVEMENT MARKING PLANS**  
**THREE OAKS PKWY EXT.**

SHEET  
**S - 21**





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DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372	DATE:
PROJ. MGR. Jack Schrager, PE	
PROJ. DIR.	
APPROVED:	

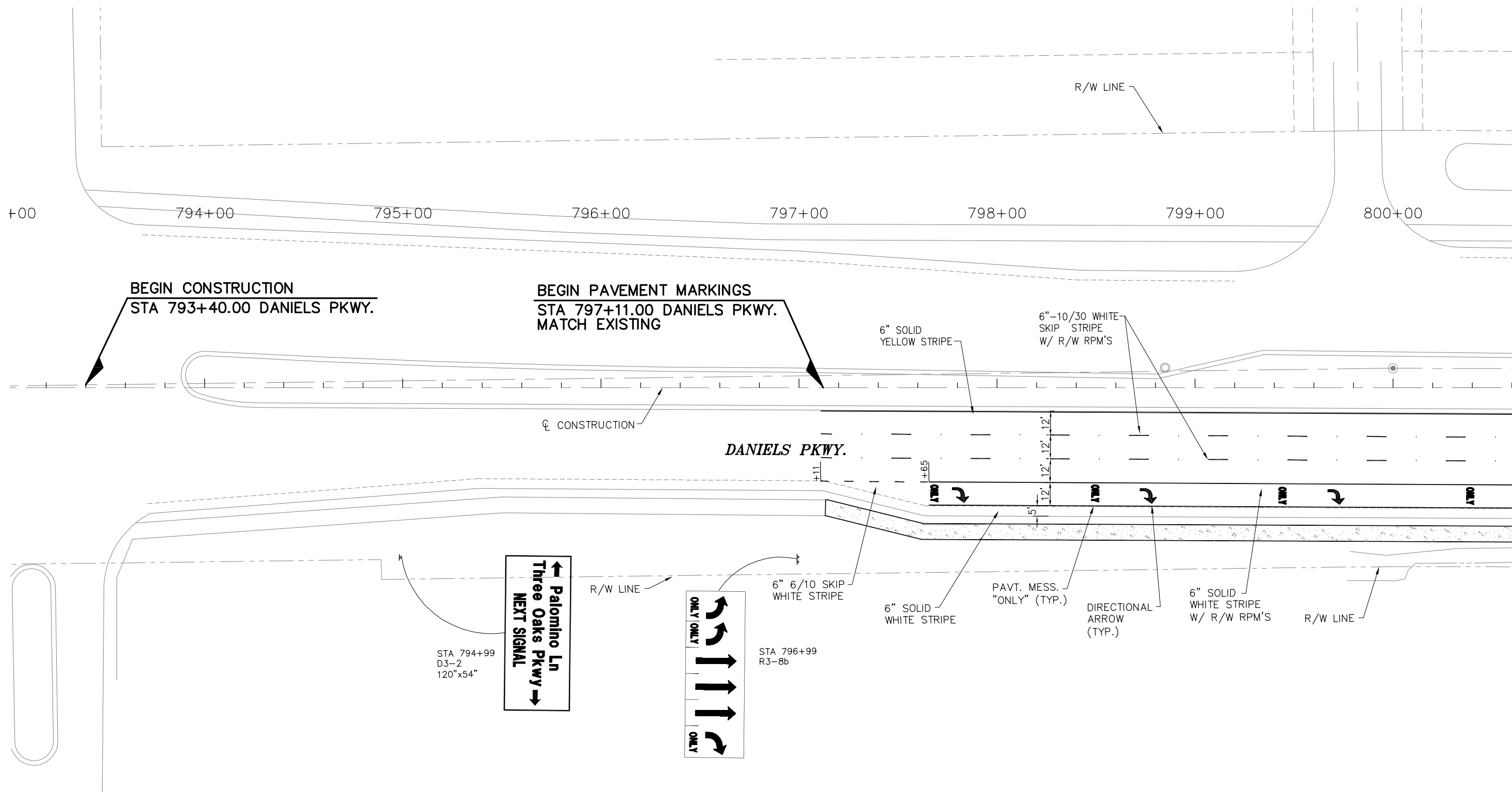
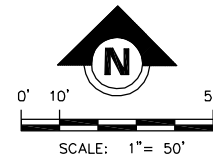
**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**SIGNING AND PAVEMENT MARKING PLANS**  
**THREE OAKS PKWY EXT.**

SHEET  
**S - 22**



P:\CAD\2008\08-372\PLTSPM\SPM\_3-OAKS\_Daniels.dwg, Daniels-Pkwy\_1\_8/10/2009 2:11:14 PM, Avalon Engineering Inc.


DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR. \_\_\_\_\_  
APPROVED: \_\_\_\_\_

**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

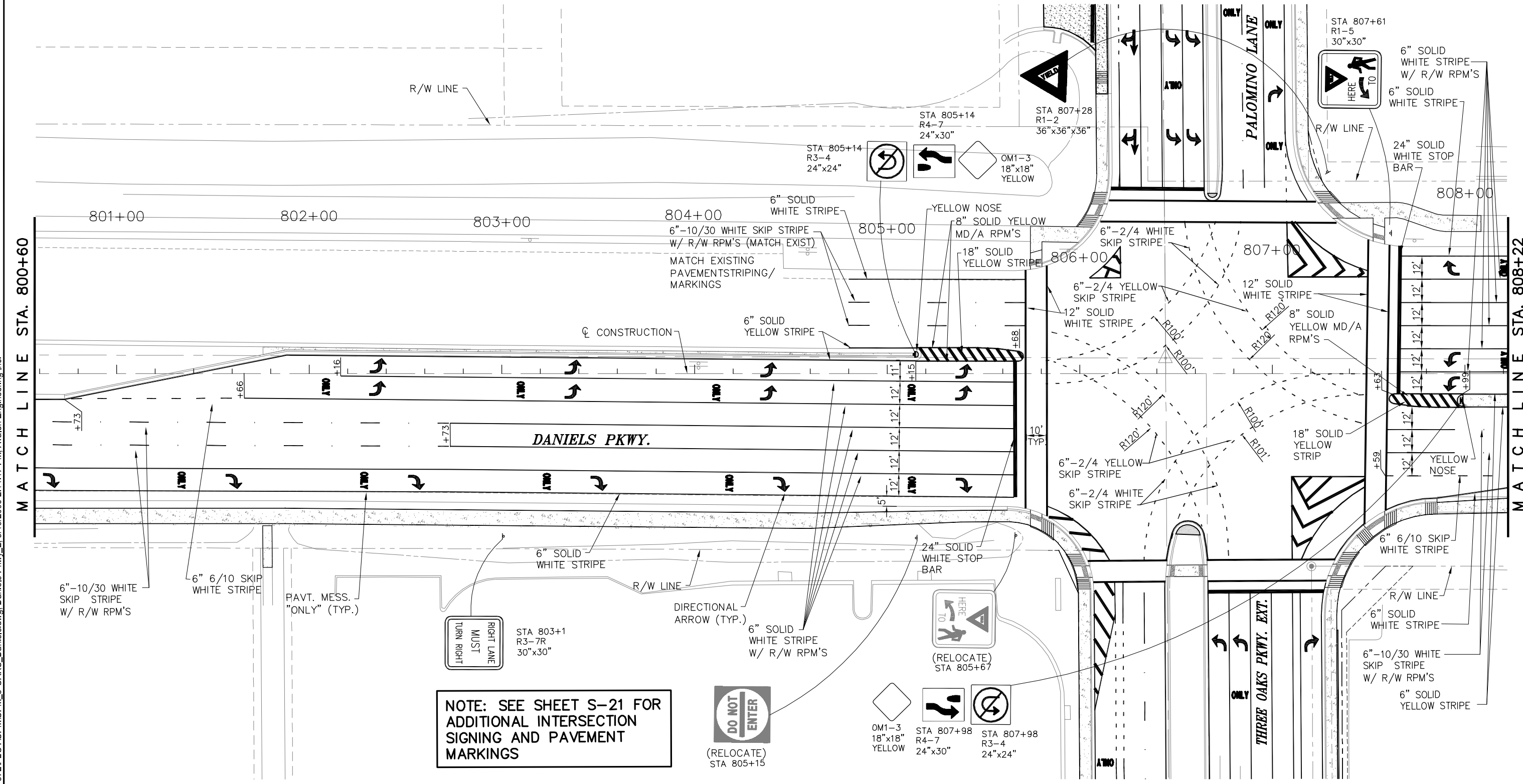
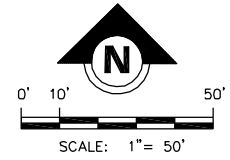
 **LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**SIGNING AND PAVEMENT MARKING PLANS**  
**DANIELS PARKWAY**

SHEET  
**S - 23**





**NOTE: SEE SHEET S-21 FOR ADDITIONAL INTERSECTION SIGNING AND PAVEMENT MARKINGS**

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DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372	DATE:
PROJ. MGR. Jack Schrager, PE	
PROJ. DIR.	
APPROVED:	

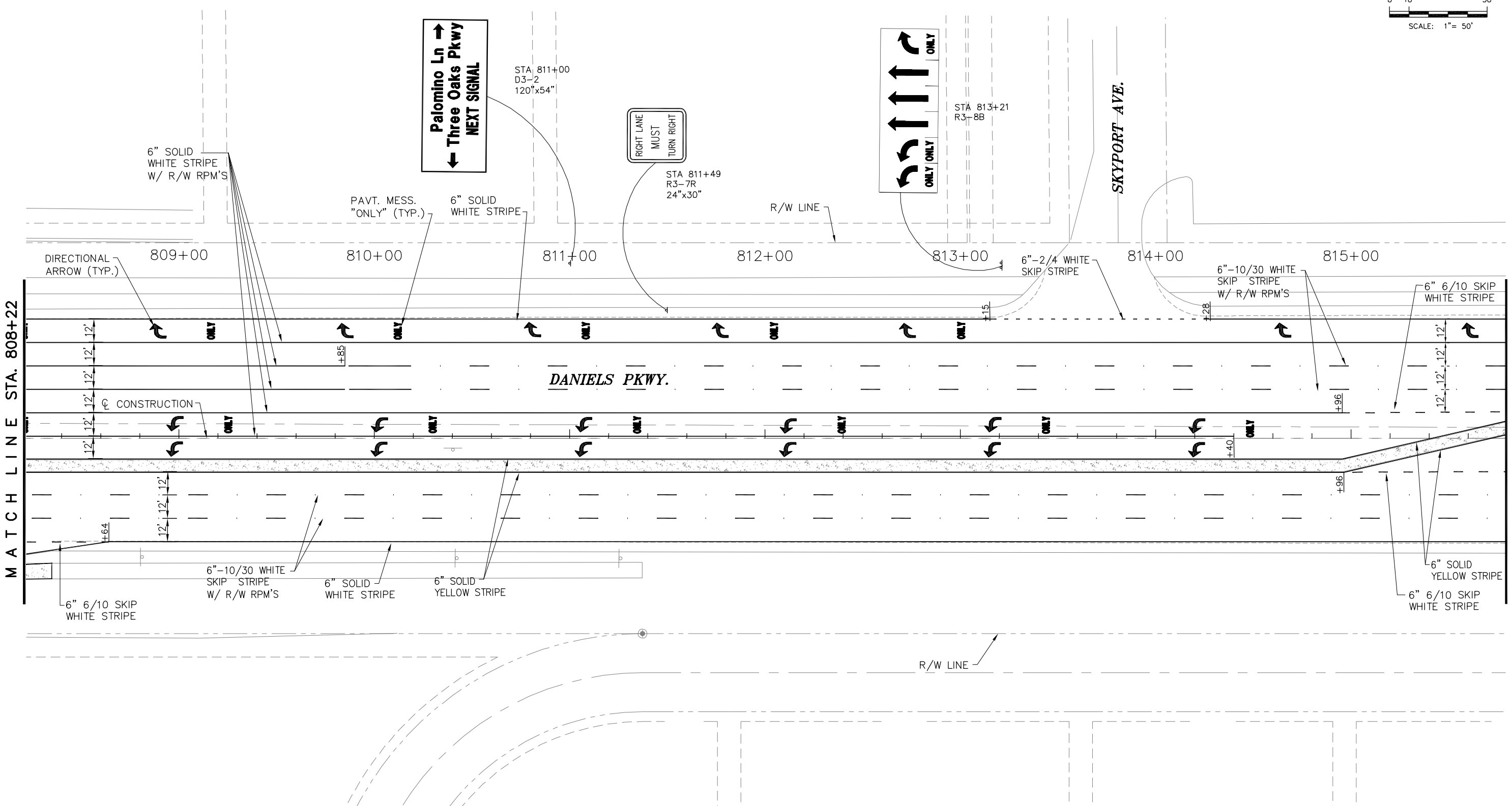
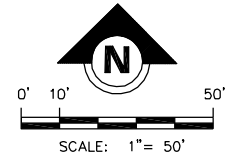
**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE#3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**SIGNING AND PAVEMENT MARKING PLANS**  
**DANIELS PARKWAY**

SHEET  
**S-24**



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DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

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 PROJ. MGR. Jack Schrager, PE  
 PROJ. DIR.  
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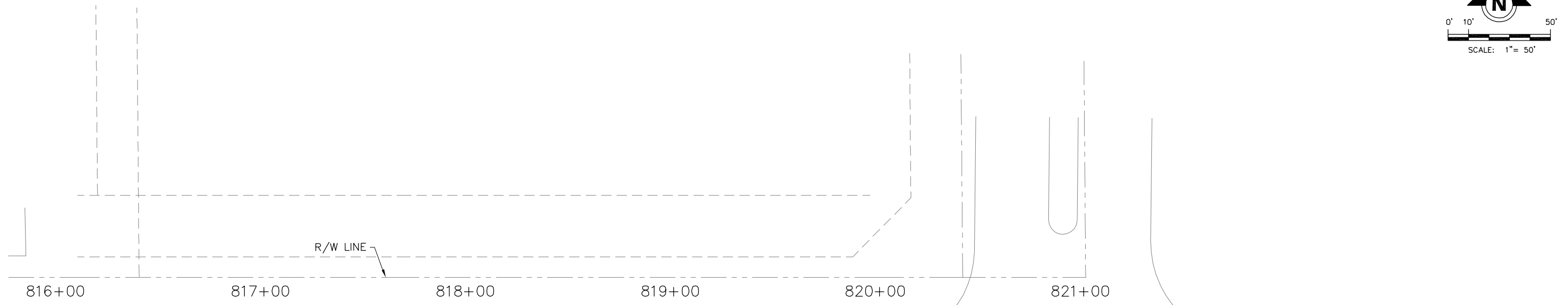
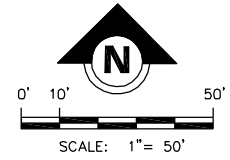
**AVALON ENGINEERING, INC.**  
 2503 DEL PRADO BLVD, SUITE 200  
 CAPE CORAL, FLORIDA 33904  
 FBPE #3128 (239) 573-2077

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
 (239) 533-8580

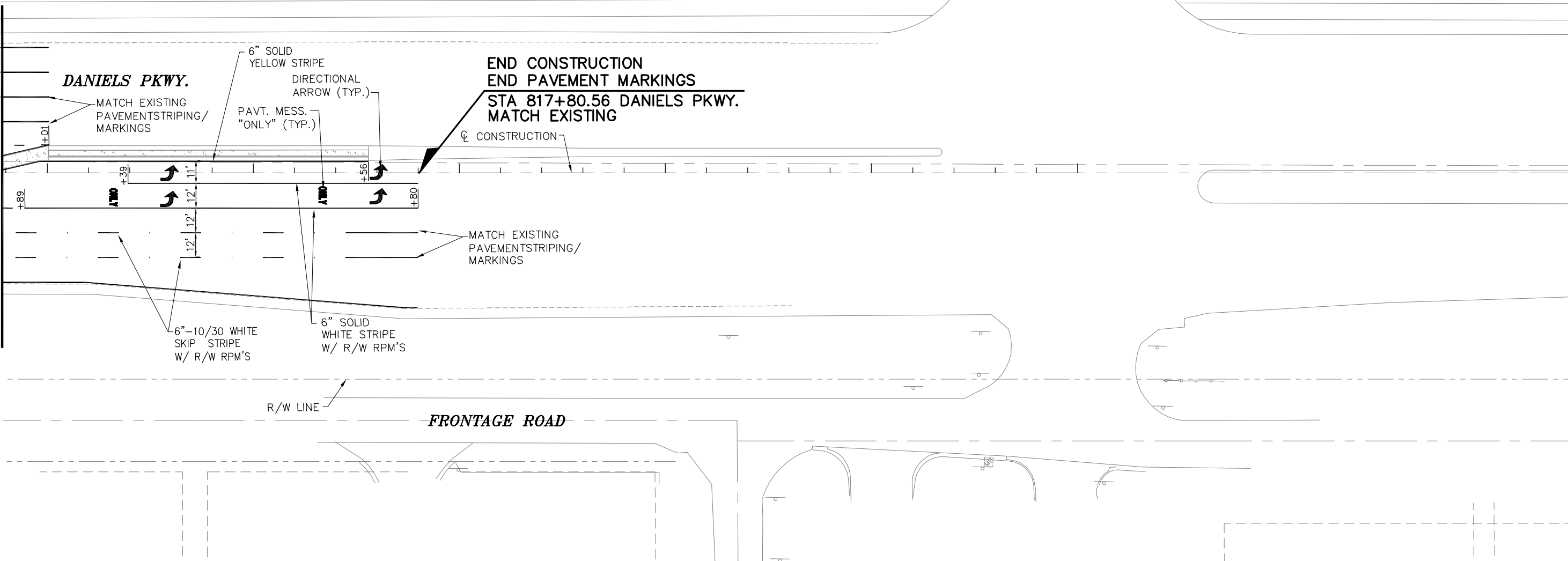
**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**SIGNING AND PAVEMENT MARKING PLANS**  
**DANIELS PARKWAY**

SHEET  
**S - 25**



M A T C H L I N E STA. 815+80



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DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR. \_\_\_\_\_  
APPROVED: \_\_\_\_\_

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FBPE #3128 (239) 573-2077

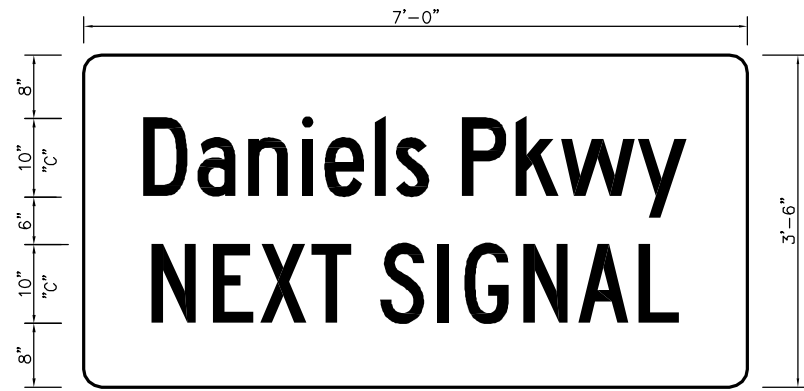
 **LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**SIGNING AND PAVEMENT MARKING PLANS**  
**DANIELS PARKWAY**

SHEET  
**S - 26**

P:\CAD\2008\08-372\PLTSPMSPM\_DTL-SIGNS.dwg, Layout1, 8/10/2009 2:11:37 PM, Avalon Engineering Inc.



SIGN NUMBER	D3-2
WIDTH x HEIGHT	7'-0"x3'-6"
BORDER WIDTH	0.75"
CORNER RADIUS	2.25"
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE
	COLOR: GREEN
LEGEND/BORDER	TYPE: -
	COLOR: WHITE

SYMBOL	X	Y	WD	HT

PERMITTED POSTS  
 TWO W6 x 12 STEEL POSTS  
 TWO 1 6 x 4.030 ALUMINUM BEAMS  
 AVG. POST LENGTH = 11.06 FEET

DIMENSIONS IN INCHES

SPACINGS ARE TO THE START OF THE NEXT LETTER

Y FONT	LETTER SPACINGS																				HT LEN						



SIGN NUMBER	D3-2
WIDTH x HEIGHT	10'-0"x4'-6"
BORDER WIDTH	0.75"
CORNER RADIUS	2.25"
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE
	COLOR: GREEN
LEGEND/BORDER	TYPE: -
	COLOR: WHITE

SYMBOL	X	Y	WD	HT

PERMITTED POSTS  
 TWO W6 x 12 STEEL POSTS  
 TWO 1 6 x 4.030 ALUMINUM BEAMS  
 AVG. POST LENGTH = 11.06 FEET

DIMENSIONS IN INCHES

SPACINGS ARE TO THE START OF THE NEXT LETTER

Y FONT	LETTER SPACINGS																				HT LEN						



SIGN NUMBER	D3-2
WIDTH x HEIGHT	7'-6"x3'-6"
BORDER WIDTH	0.75"
CORNER RADIUS	2.25"
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE
	COLOR: GREEN
LEGEND/BORDER	TYPE: -
	COLOR: WHITE

SYMBOL	X	Y	WD	HT

PERMITTED POSTS  
 TWO W6 x 12 STEEL POSTS  
 TWO 1 6 x 4.030 ALUMINUM BEAMS  
 AVG. POST LENGTH = 11.06 FEET

DIMENSIONS IN INCHES

SPACINGS ARE TO THE START OF THE NEXT LETTER

Y FONT	LETTER SPACINGS																				HT LEN						



SIGN NUMBER	D3-2
WIDTH x HEIGHT	10'-0"x4'-6"
BORDER WIDTH	0.75"
CORNER RADIUS	2.25"
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE
	COLOR: GREEN
LEGEND/BORDER	TYPE: -
	COLOR: WHITE

SYMBOL	X	Y	WD	HT

PERMITTED POSTS  
 TWO W6 x 12 STEEL POSTS  
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**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**GUIDE SIGN WORK SHEET**  
**THREE OAKS PKWY EXT.**

SHEET  
**S - 27**



# CONSTRUCTION PLANS

## THREE OAKS PARKWAY EXTENSION AIRPORT CANAL TO DANIELS PKWY.

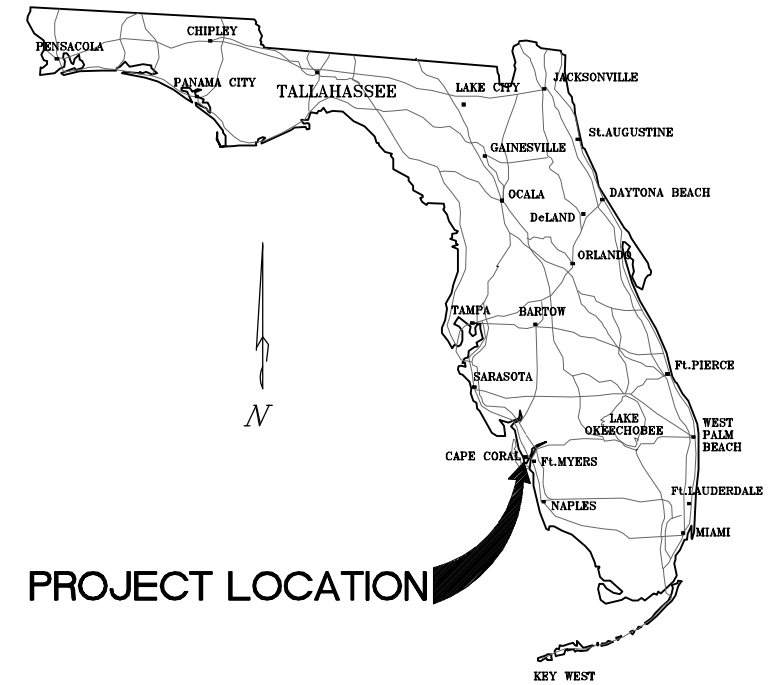
### LEE COUNTY PROJECT NO. 4053



BOARD OF LEE COUNTY COMMISSIONERS				
District ONE	District TWO	District THREE	District FOUR	District FIVE
<i>Bob Janes</i>	<i>Brian Bigelow</i>	<i>Ray Judah</i>	<i>Tammy Hall</i>	<i>Frank Mann</i>

**INTERIM LEE COUNTY MANAGER**  
*Karen Hawes*

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
*Scott M. Gilbertson P.E., Director*  
*Eyra Cash, P.E., Project Manager*



**PROJECT LOCATION**

**VICINITY MAP**  
N.T.S.

## UTILITY ADJUSTMENT PLANS

### INDEX OF UTILITY ADJUSTMENT PLANS

U-1	KEY SHEET
U-2	GENERAL NOTES
U-3 TO U-4	PROJECT LAYOUT
U-5 TO U-13	UTILITY ADJUSTMENT PLANS

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

EXCEPT WHERE OTHERWISE INDICATED BY SPECIAL PROVISION. THE GOVERNING SPECIFICATIONS SHALL BE: STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS DATED 2007, DESIGN STANDARDS DATED 2008, AND SUPPLEMENTS THERETO IF NOTED IN THE SPECIAL PROVISIONS FOR THIS PROJECT.

ROADWAY PLANS  
ENGINEER OF RECORD: JACK SCHRAGER, P.E.  
FL. LICENSE NO. \_\_\_\_\_ 24070 \_\_\_\_\_

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**THREE OAKS PARKWAY EXTENSION**  
*AIRPORT CANAL TO DANIELS PKWY.*  
LEE COUNTY, FLORIDA

**KEY SHEET**  
**THREE OAKS PKWY. EXT.**

SHEET  
**U - 1**

# GENERAL CONSTRUCTION NOTES

1. ALL ELEVATIONS REFER TO N.G.V.D. MEAN SEA LEVEL, 1929.
2. CONTRACTOR SHALL LOCATE AND VERIFY THE SIZE, LOCATION AND DEPTH OF ALL EXISTING UTILITIES IN THE FIELD AND SHALL NOTIFY THE UTILITY COMPANIES IN THE AREA BEFORE BEGINNING CONSTRUCTION. ANY UTILITIES THAT ARE DISTURBED OR DAMAGED BY THE CONTRACTOR SHALL BE IMMEDIATELY REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE. ANY DISCREPANCY NOT CALLED TO THE ENGINEER'S ATTENTION PRIOR TO ACCOMPLISHMENT OF THE WORK SHALL BE CORRECTED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
3. ALL MATERIALS AND WORKMANSHIP UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE CURRENT CONSTRUCTION STANDARDS AND SPECIFICATIONS OF LEE COUNTY DEVELOPMENT STANDARDS AND FLORIDA DEPARTMENT OF (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE TRANSPORTATION CONSTRUCTION UNLESS OTHERWISE NOTED.
4. ALL CONSTRUCTION WITHIN THE COUNTY RIGHT-OF-WAY SHALL BE IN STRICT ACCORDANCE WITH THE CURRENT LEE COUNTY DEPARTMENT OF TRANSPORTATION STANDARDS AND ALL REQUIRED INSPECTIONS PERFORMED BY THEM. CONTRACTOR SHALL PROVIDE BOND AND PERMIT FEE AS REQUIRED.
5. WATER AND SEWER SERVICES SHALL CONFORM TO THE SOUTHERN STANDARD PLUMBING CODE AND UTILITY COMPANY.
6. ALL WATER SERVICE LINES UNDER PAVED AREAS SHALL BE ENCASED IN SCHEDULE 40 PVC.
7. WATER PIPE 2" AND SMALLER TO BE POLYVINYL CHLORIDE (PVC) AND SHALL CONFORM TO ASTM D-1785, PVC CLASS 1120 OR 1220 SCHEDULE 40 OR 80, 30 INCH MINIMUM COVER. WATER PIPE GREATER THAN 2 INCHES, UP TO AND INCLUDING 10 INCHES IN DIAMETER SHALL BE AWWA C-900, CLASS 150, DR18, MINIMUM 30" INCHES MINIMUM COVER.
8. GRAVITY SEWER PIPE 4" IN DIAMETER AND GREATER SHALL BE PVC AND SHALL CONFORM TO ASTM D-3034, SDR 26; 3 FOOT MINIMUM COVER, UNLESS OTHERWISE SHOWN.
9. INSTALLATION OF WATER METERS AND CONNECTIONS TO UTILITY COMPANY WATER MAINS SHALL BE COORDINATED WITH THE UTILITY COMPANY PRIOR TO CONSTRUCTION.
10. ALL INTERNAL LIGHTING SHALL BE SO ARRANGED AND DIRECTED AS TO ELIMINATE GLARE ON ANY ADJACENT PROPERTIES.

# LEE COUNTY UTILITIES STANDARD PLAN NOTES

- A. ALL WORK SHALL CONFORM TO LATEST REVISION OF THE LEE COUNTY UTILITIES OPERATIONAL MANUAL WHICH IS ON FILE AT THE DIVISION OF LEE COUNTY UTILITIES OFFICE (1500 MONROE STREET, P.O. BOX 398, FORT MYERS, FLORIDA 33902)
- B. ANY QUANTITIES SHOWN ON PLANS ARE NOT VERIFIED BY L.C.U.
- C. AT THE SITE, THE CONTRACTOR SHALL KEEP AND MAINTAIN ONE RECORD COPY OF ALL CONTRACT DOCUMENTS, REFERENCE DOCUMENTS, AND ALL TECHNICAL DOCUMENTS SUBMITTED IN GOOD ORDER. AS THE WORK PROGRESSES, THE CONTRACTOR'S ENGINEER OR HIS DESIGNATED REPRESENTATIVE SHALL RECORD ON ONE SET OF REPRODUCIBLE DRAWINGS ALL CHANGES AND DEVIATIONS FROM THE ORIGINAL PLANS. HE SHALL RECORD THE EXACT LOCATION OF ALL CHANGES IN VERTICAL AND HORIZONTAL ALIGNMENT BY OFFSETS AND TIES AT EACH; SEWER, WATER, ELECTRIC, GAS, COMMUNICATION, AND OTHER SERVICES BY OFF-SET DISTANCE TO PERMANENT IMPROVEMENTS SUCH AS BUILDINGS AND CURBS.  
  
THESE RECORD DRAWINGS MUST BE CERTIFIED BY THE FLORIDA REGISTERED PROFESSIONAL ENGINEER, WHO PREPARED THE PLANS AND SIGNS AND SEALS THESE PLANS. THE RECORD DRAWINGS SHALL INCLUDE VERTICAL AND HORIZONTAL ALIGNMENT OF ALL WATER, SEWER, AND EFFLUENT REUSE LINES, VALVES, TEES, BENDS, REDUCERS, HYDRANTS, PUMP STATIONS, SERVICE CONNECTIONS, METER BOXES, AND/OR PADS, AND OTHER PERTINENT STRUCTURES. PIPELINE RUNS IN EXCESS OF 152.4 M (500') WITHOUT FITTINGS SHALL INCLUDE VERTICAL ALIGNMENT INFORMATION AT 152.4 M (500') INTERVALS. SAID ALIGNMENT SHALL BE TIED TO PERMANENT IMPROVEMENTS, SUCH AS ROADWAY AND/OR RAILROAD CENTERLINES AND RIGHTS-OF-WAY, BUILDING AND PROPERTY CORNERS, AND SHALL BE CERTIFIED BY A PROFESSIONAL LAND SURVEYOR, LICENSED IN THE STATE OF FLORIDA. THE PROFESSIONAL LAND SURVEYOR CAN COORDINATE WITH THE CONTRACTOR TO INSTALL THE NECESSARY APPURTENANCES ON BURIED UTILITIES TO FACILITATE THE SURVEY AFTER CONSTRUCTION IS COMPLETED. IN ADDITION, PROPERTY STRAP NUMBERS AND STREET NAMES SHALL BE SHOWN ON THE PLAN.  
  
ON A CASE BY CASE BASIS, LEE COUNTY UTILITIES MAY WAIVE THE REQUIREMENT FOR CERTIFICATION BY A PROFESSIONAL LAND SURVEYOR, LICENSED IN THE STATE OF FLORIDA. HOWEVER, PRIOR CONSENT MUST FIRST BE OBTAINED FROM LEE COUNTY UTILITIES. THE COUNTY SHALL WITHHOLD FINAL ACCEPTANCE OF THE PROJECT UNTIL THE REQUIREMENT FOR RECORD DRAWINGS AND RELATED RECORDS HAS BEEN MET. RECORD DRAWINGS WITHOUT DETAILED FIELD VERIFIED HORIZONTAL AND VERTICAL LOCATIONS OF ALL FACILITIES SHOWN WILL BE REJECTED.
- D. A PRE-CONSTRUCTION MEETING IS REQUIRED BEFORE WORK MAY BEGIN. LEE COUNTY UTILITIES SHALL BE NOTIFIED 48 HOURS PRIOR TO PROJECT MOBILIZATION.
- E. ALL WORK AND MATERIALS, WHICH DO NOT CONFORM TO L.C.U. SPECIFICATIONS, ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- F. ANY WORK PERFORMED WITHOUT THE KNOWLEDGE OF L.C.U. IS SUBJECT TO RE-EXCAVATION, REMOVAL AND REPLACEMENT OF SAME TO BE DONE AT THE CONTRACTOR'S EXPENSE.
- G. THE CONTRACTOR SHALL PROVIDE SUFFICIENT PERSONNEL AND EQUIPMENT ON THE JOB AT ALL TIMES DURING CONSTRUCTION TO SATISFY THE SPECIFICATIONS AND TO COMPLETE WORK.
- H. L.C.U. INSPECTION STAFF MAY OBSERVE PROJECT CONSTRUCTION.
- I. THE CONTRACTOR IS TO UNCOVER ALL EXISTING LINES BEING TIED INTO AND VERIFY GRADES BEFORE BEGINNING CONSTRUCTION.
- J. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND TAKE ALL POSSIBLE PRECAUTIONS TO AVOID ANY DAMAGE TO ALL UNDERGROUND PIPELINES, TELEPHONE, CABLE T.V., ELECTRIC LINES/CONDUITS AND STRUCTURES IN ADVANCE OF ANY CONSTRUCTION. L.C.U. WILL NOT GUARANTEE ANY LOCATIONS AS SHOWN ON THESE PLANS OR THOSE OMITTED FROM THESE PLANS. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY OCCUR BY HIS FAILURE TO EXACTLY LOCATE AND PROTECT EXISTING UTILITIES AND STRUCTURES.
- K. CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON THE PLANS. IF ANY DISCREPANCIES IN QUANTITIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND L.C.U.
- L. ALL REGULATORY AND PERMITTING AGENCIES' REQUIREMENTS SHALL BE COMPLIED WITH.
- M. APPROPRIATE TURBIDITY CONTROL DEVICES (E.G. SILT FENCES, HAY BAILS) WILL BE UTILIZED DURING ALL PHASES OF INSTALLATION AND GRADING. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE NOTICE OF INTENT AND NOTICE OF TERMINATION TO THE E.P.A. IN COMPLIANCE WITH LEE COUNTY'S N.P.D.E.S. PERMIT. CONTRACTOR IS RESPONSIBLE FOR DEVELOPING AND MAINTAINING AN EFFECTIVE STORM WATER POLLUTION PREVENTION PLAN.
- N. IN THE EVENT THAT HARD LIMESTONE FORMATION IS ENCOUNTERED, MAKING IT IMPOSSIBLE TO EXCAVATE TO THE DEPTH REQUIRED UNDER THIS CONTRACT, THE CONTRACTOR MAY BE ALLOWED TO REDUCE THE PIPE COVER TO NOT LESS THAN TWO (2) FEET WHILE MAINTAINING THE L.C.U. REQUIRED THICKNESS OF BEDDING UNDER THE PIPE. SUCH DEVIATION FROM THE PLANS MUST BE FIRST BE APPROVED BY L.C.U. AND THE ENGINEER PRIOR TO THE PIPE LAYING. IF TWO FEET OF COVER OR MORE CAN NOT BE ATTAINED, THE CONTRACTOR SHALL PROVIDE OTHER METHOD OF CONSTRUCTION OR PIPE PROTECTION WHICH SHALL FIRST BE APPROVED BY L.C.U. AND THE ENGINEER, AT NO ADDITIONAL COST TO THE COUNTY.

- O. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FEATURES AFFECTING HIS WORK. ANYTHING NOT SHOWN ON THESE DRAWINGS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND SHALL NOT CONSTITUTE AN EXTRA, UNLESS APPROVED BY THE ENGINEER.
- P. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND L.C.U. IMMEDIATELY CONCERNING ANY CONFLICTS WITH L.C.U. UTILITIES/STRUCTURES ARISING DURING CONSTRUCTION OF ANY FACILITIES SHOWN ON THESE DRAWINGS.
- Q. TRAFFIC MUST BE MAINTAINED AT ALL TIMES AS PER LEE COUNTY DEPARTMENT OF TRANSPORTATION (L.C.D.O.T.) AND PER FLORIDA DEPARTMENT OF TRANSPORTATION (F.D.O.T.) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- R. THE CONTRACTOR SHALL VERIFY ALL UTILITIES AND PROVIDE AT LEAST 48 HOURS NOTICE TO THE INDIVIDUAL UTILITY COMPANIES AND F.D.O.T. AND L.C.D.O.T. PRIOR TO CONSTRUCTION.
- S. THE CONTRACTOR SHALL REPLACE ALL PAVEMENT, CURBS, DRIVEWAYS, SIDEWALKS, FENCES, ETC., WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL RESTORE ALL AREAS AFFECTED BY THE CONSTRUCTION TO ITS ORIGINAL CONDITION, OR BETTER.
- T. WITHIN THE F.D.O.T. AND L.C.D.O.T. RIGHT-OF-WAY, ALL DISTURBED AREAS SHALL RECEIVE GRASSING (SEEDING) OR SODDING MATERIALS IN ACCORDANCE WITH F.D.O.T. SPECIFICATIONS. THOSE AREAS THAT ARE CLASSIFIED AS DRAINAGE DITCHES SHALL RECEIVE FULL SOLID SOD.
- U. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
- V. ALL FRAMES, COVERS, VALVE BOXES, METER BOXES, AND MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE UPON COMPLETION OF PAVING OR RELATED CONSTRUCTION. ALL VALVE PADS SHALL BE POURED IN PLACE. NO PRE-FORMED VALVE PADS ALLOWED.

## UTILITY COMPANIES:

- TELEPHONE: EMBARQ  
2820 CARGO STREET  
FORT MYERS, FL 33916  
(239) 336-2020
- REFUSE: WASTE PRO  
13110 RICKENBACKER PARKWAY  
FORT MYERS, FL 33913  
(239) 337-0800
- WATER/SEWER: LEE COUNTY UTILITIES  
1500 MONROE STREET  
FORT MYERS, FL 33902  
(239) 533-8150
- CABLE: COMCAST  
26102 BONITA GRANDE DRIVE  
BONITA SPRINGS, FL 34135  
(239) 432-1805
- ELECTRIC: FLORIDA POWER AND LIGHT  
15834 WINKLER ROAD  
FORT MYERS, FL 33908  
(239) 415-1302
- FIRE DISTRICT: SAN CARLOS PARK FIRE PROTECTION  
& RESCUE SERVICE DISTRICT  
19591 BEN HILL GRIFFIN PARKWAY  
FORT MYERS, FL 33913  
(239) 267-7525

## LEGEND

- MANHOLE I.D.
- PROPOSED FORCE MAIN
- PROPOSED FIRE HYDRANT ASSEMBLY  
W\PIPE BOLLARDS (TYP)
- PROPOSED WATER MAIN & G.V.
- PROPOSED SANITARY SEWER MAIN  
(SDR 26 PVC) W\MANHOLE
- PROPOSED 6" SEWER LATERAL  
W\CLEAN-OUT
- BERM/DETENTION AREAS
- ROCK BOULDER RIP-RAP  
OVER FILTER FABRIC
- ASPHALT PAVEMENT AREAS  
(SEE PAVEMENT SECTIONS)
- EXIST. STORM DRAIN & INLET
- INLET STRUCTURE I.D.
- PROP. STORM DRAIN & INLET
- 6.50 - PROPOSED CONTOUR ELEVATION
- [6.50] PROPOSED ELEVATION (NGVD)
- + 6.50 EXISTING ELEVATION (NGVD)
- DRAINAGE FLOW ARROW
- INDIGENOUS PRESERVE

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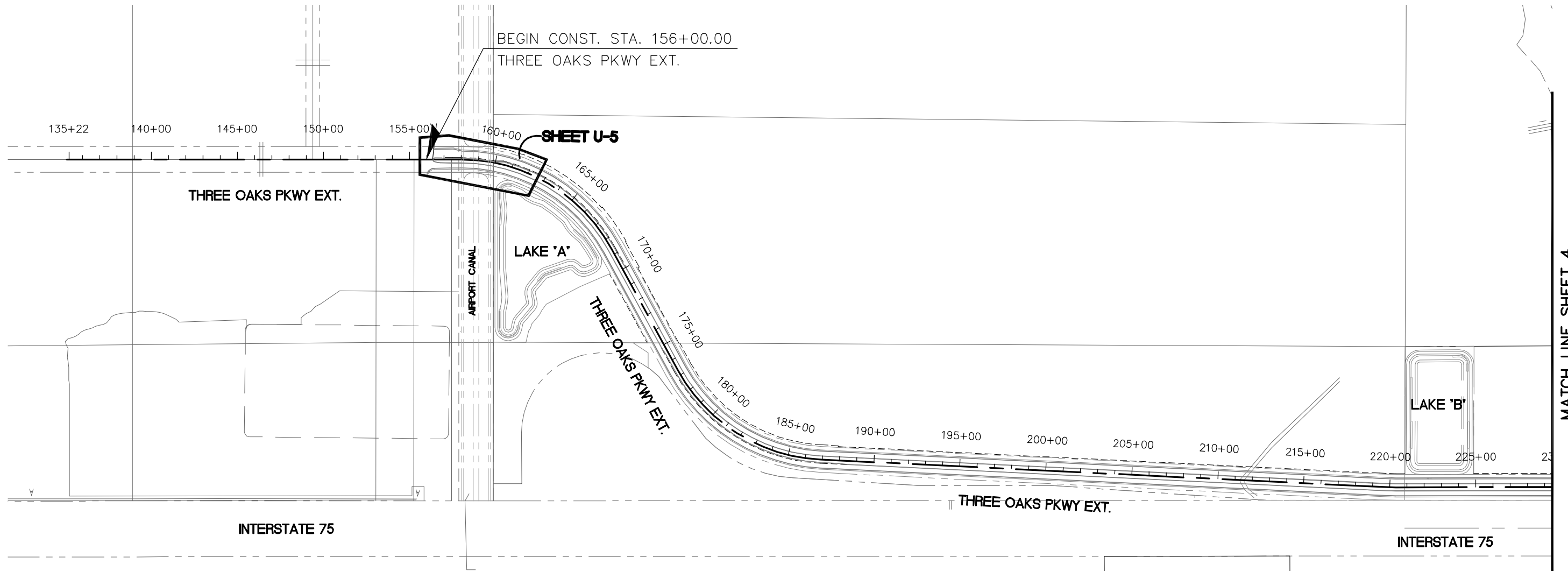
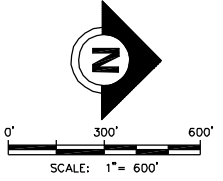
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	<b>LEE COUNTY DEPARTMENT OF TRANSPORTATION</b> (239) 533-8580
--	--

<b>THREE OAKS PARKWAY EXTENSION</b> AIRPORT CANAL TO DANIELS PKWY. LEE COUNTY, FLORIDA
--

**UTILITY NOTES**  
**THREE OAKS PKWY. EXT.**

SHEET  
**U - 2**



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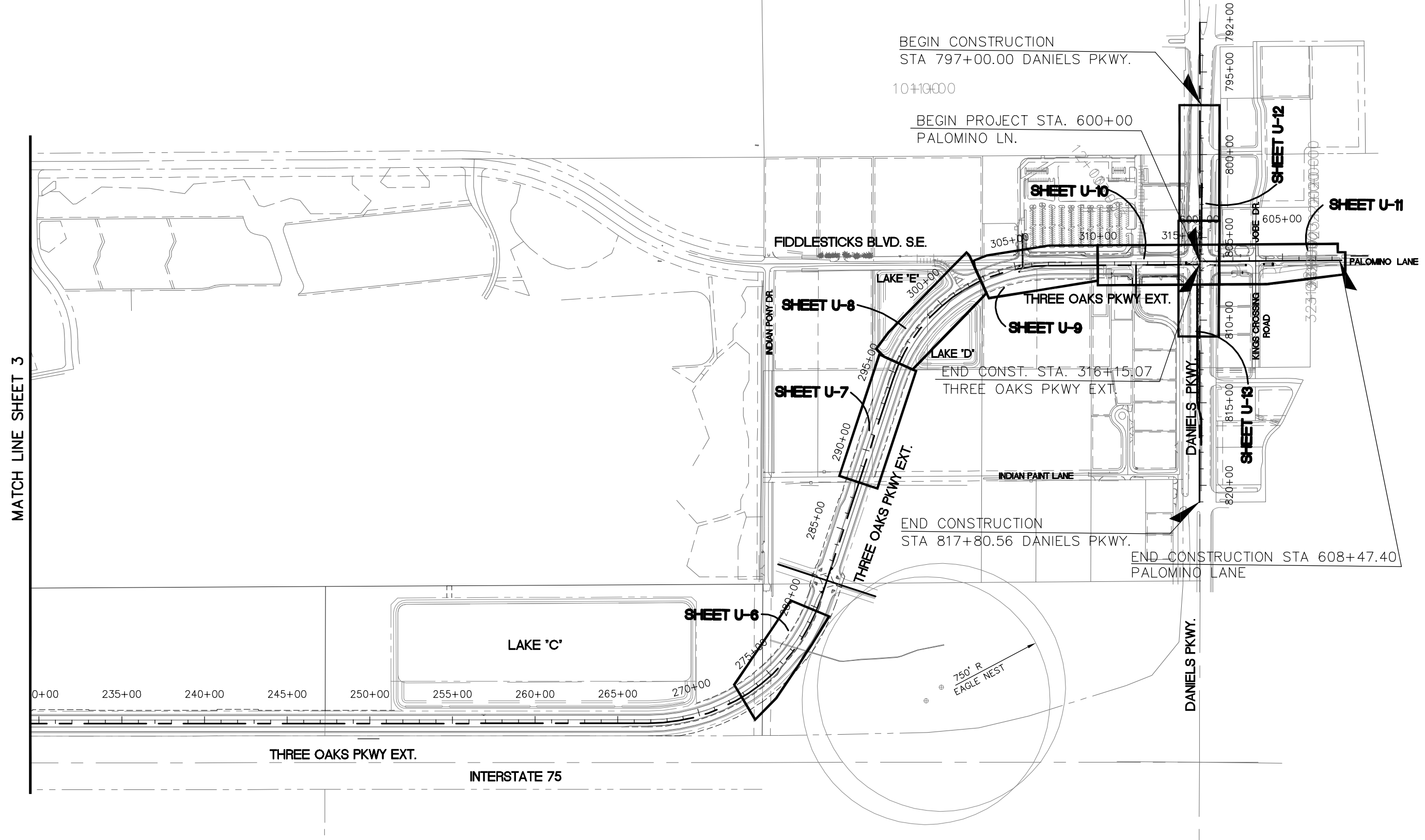
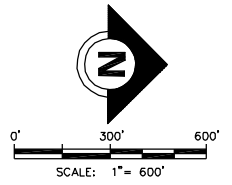
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**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**PROJECT LAYOUT 3 OAKS**  
UTILITY ADJUSTMENT

SHEET  
**U - 3**





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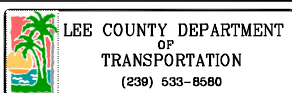
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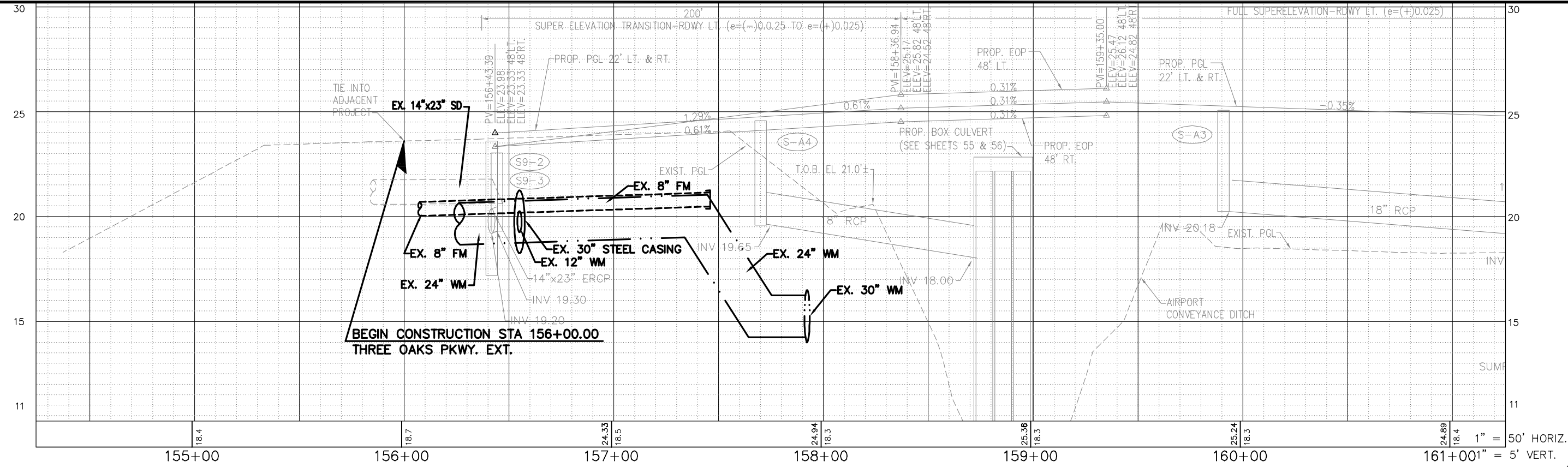
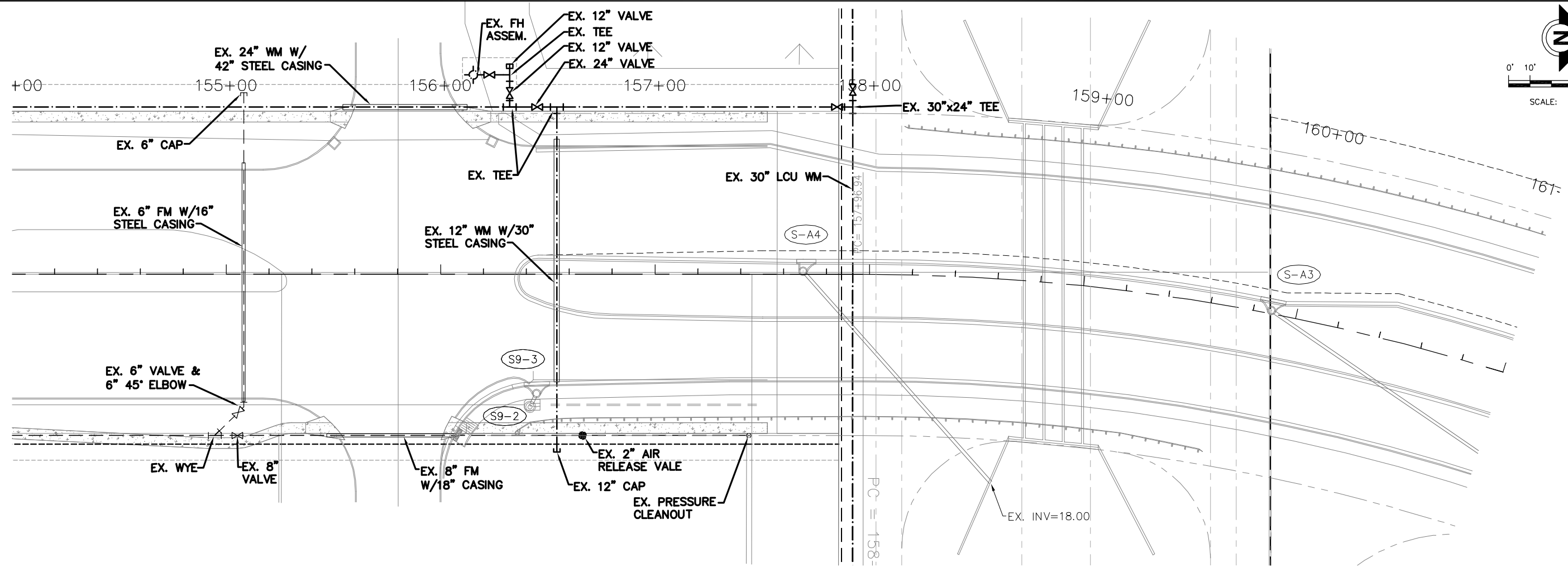
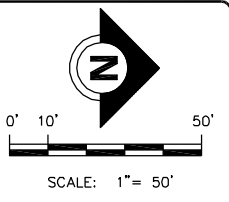
**AVALON ENGINEERING, INC.**  
2503 DEL PRADO BLVD, SUITE 200  
CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077



**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**PROJECT LAYOUT 3 OAKS**  
UTILITY ADJUSTMENT

SHEET  
**U - 4**



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DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

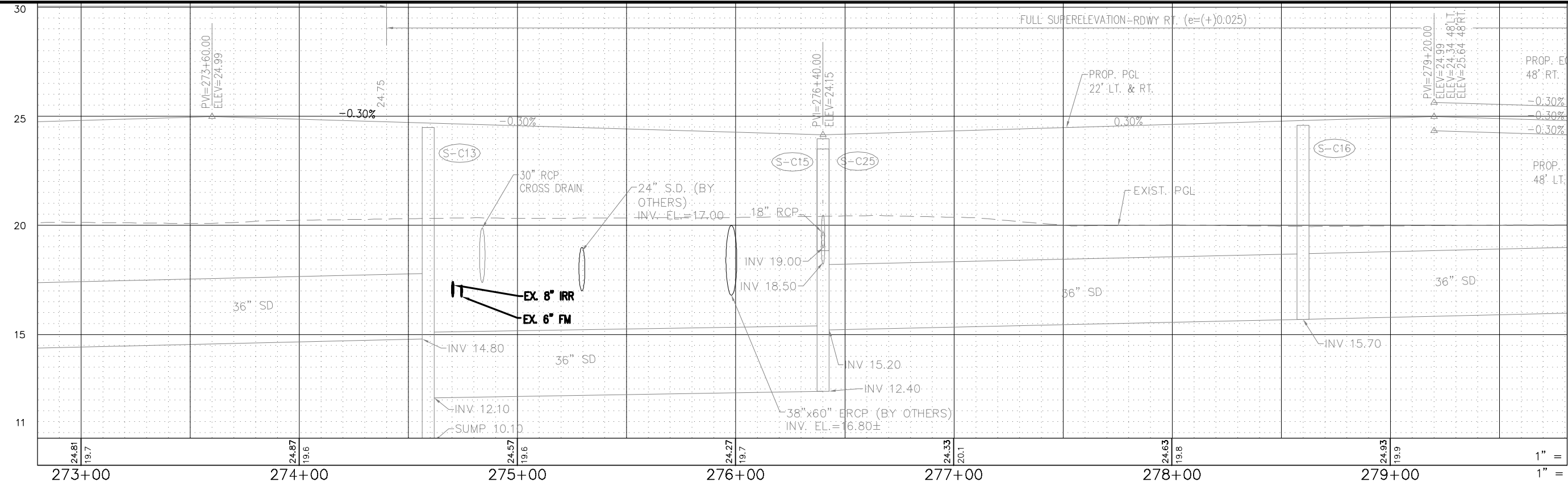
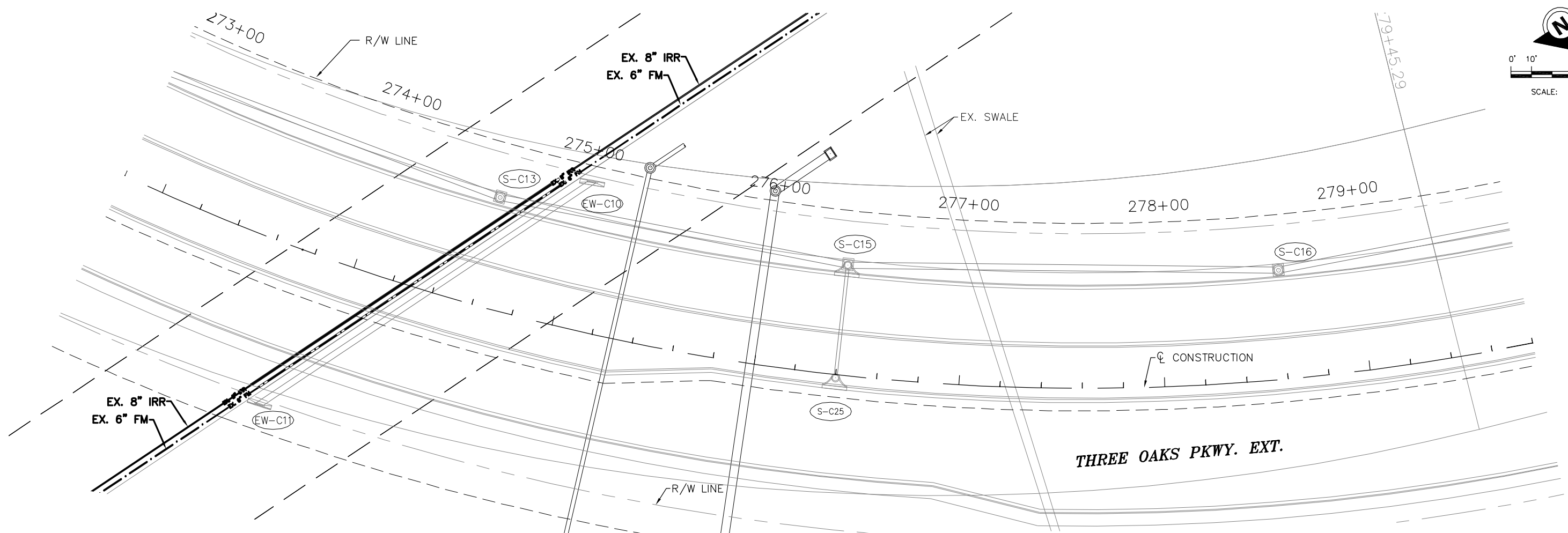
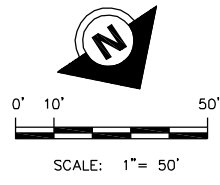
**AVALON ENGINEERING, INC.**  
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CAPE CORAL, FLORIDA 33904  
FBPE #3128 (239) 573-2077

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(239) 533-8580

**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**PLAN & PROFILE 3 OAKS**  
**UTILITY ADJUSTMENT**

SHEET  
**U - 5**



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DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schrager, PE  
PROJ. DIR.  
APPROVED:

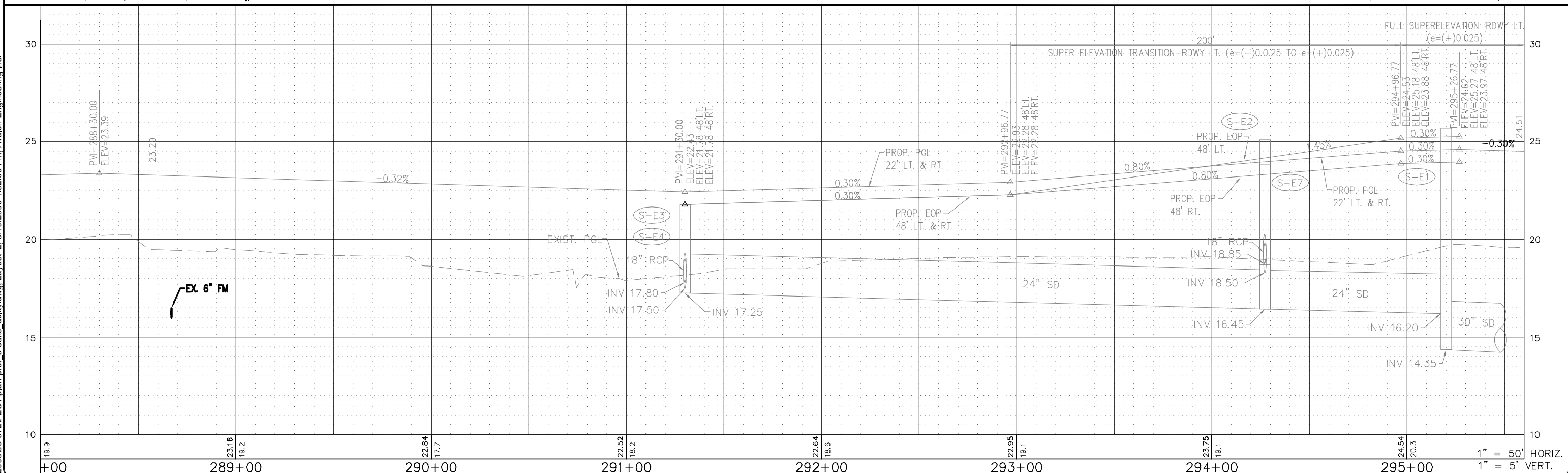
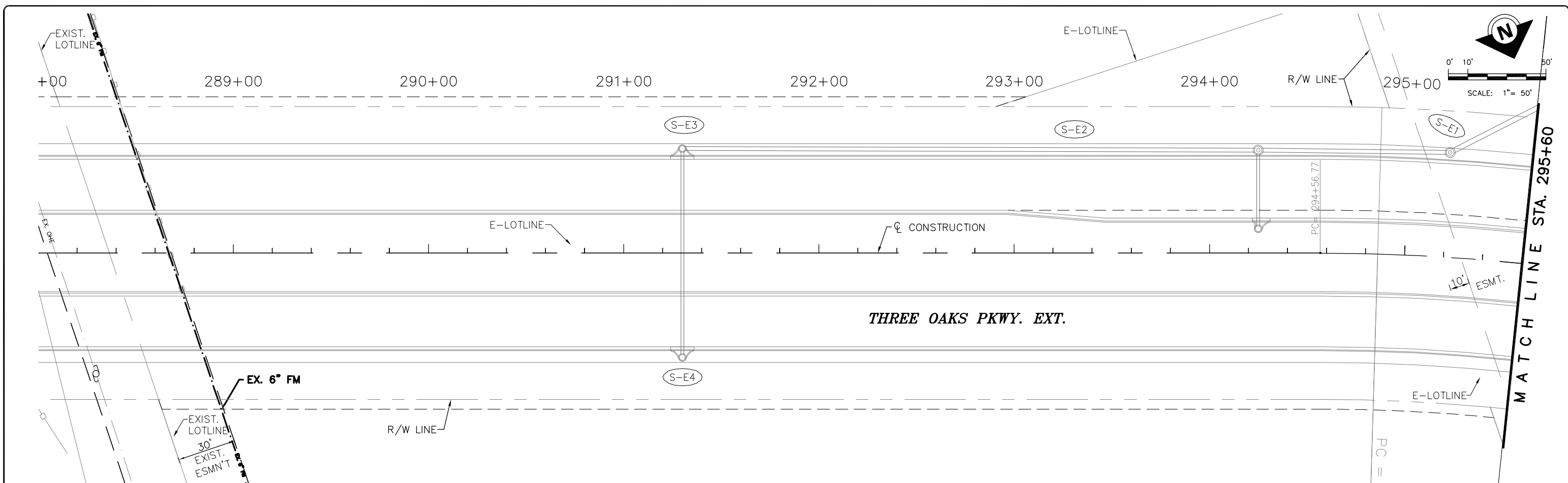
**AVALON ENGINEERING, INC.**  
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FBPE #3128 (239) 573-2077

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**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**PLAN & PROFILE 3 OAKS**  
**UTILITY ADJUSTMENT**

SHEET  
**U - 6**



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DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

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(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
 PROJ. MGR. Jack Schrager, PE  
 PROJ. DIR.  
 APPROVED:

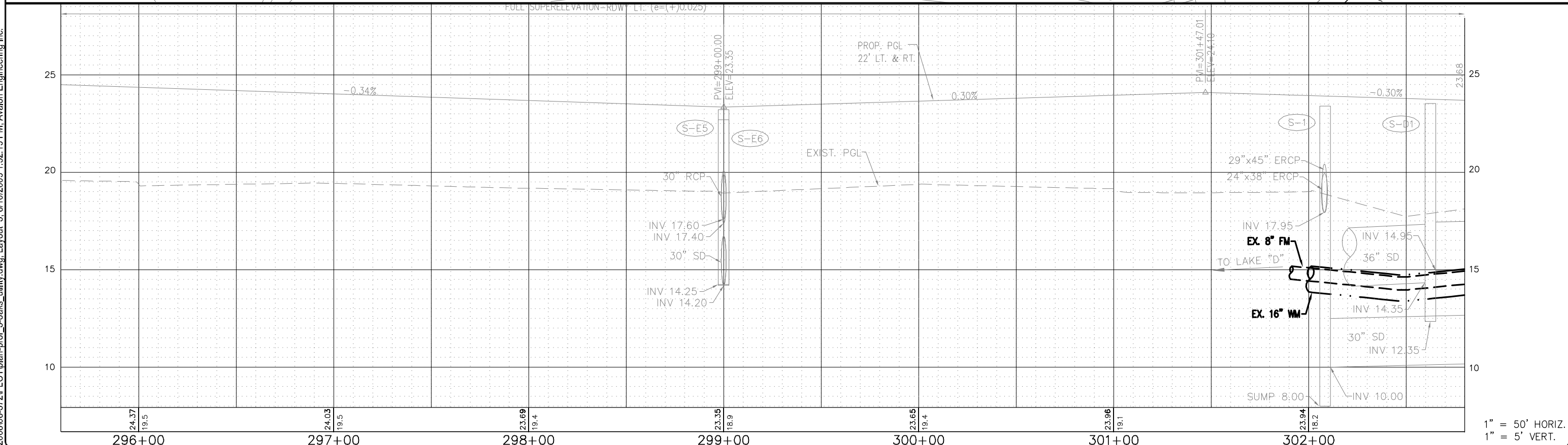
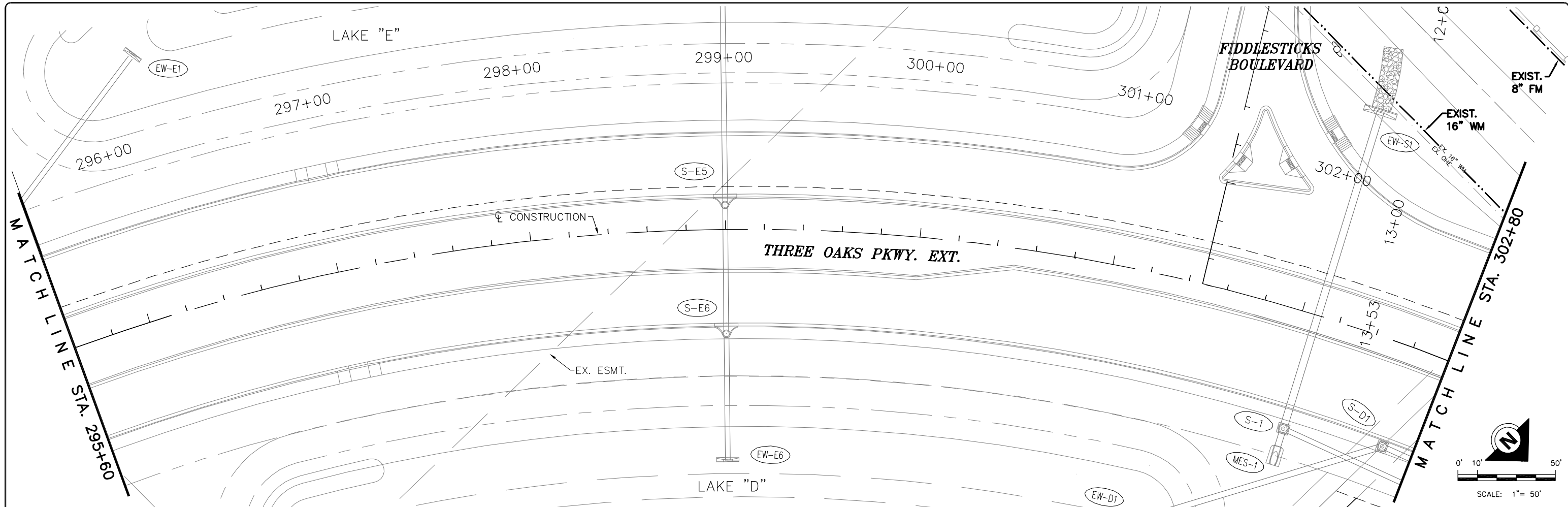
**AVALON ENGINEERING, INC.**  
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**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**PLAN & PROFILE 3 OAKS**  
**UTILITY ADJUSTMENT**

SHEET  
**U - 7**



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DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

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(AUGUST - 2009)

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PROJ. 08-372 DATE:  
 PROJ. MGR. Jack Schrager, PE  
 PROJ. DIR.  
 APPROVED:

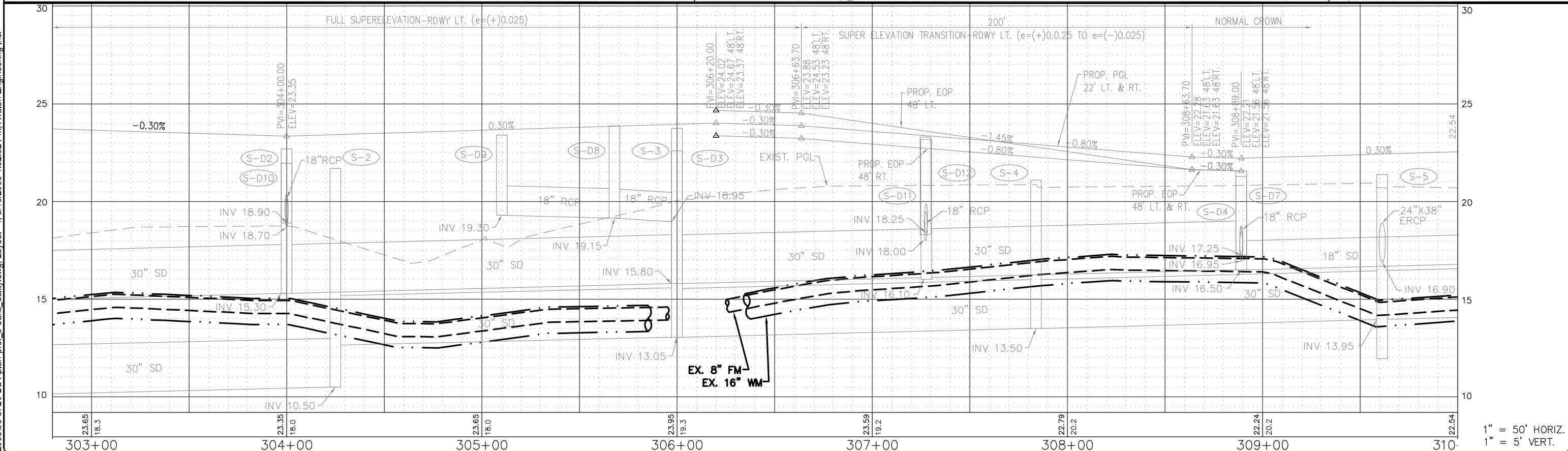
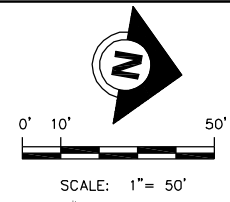
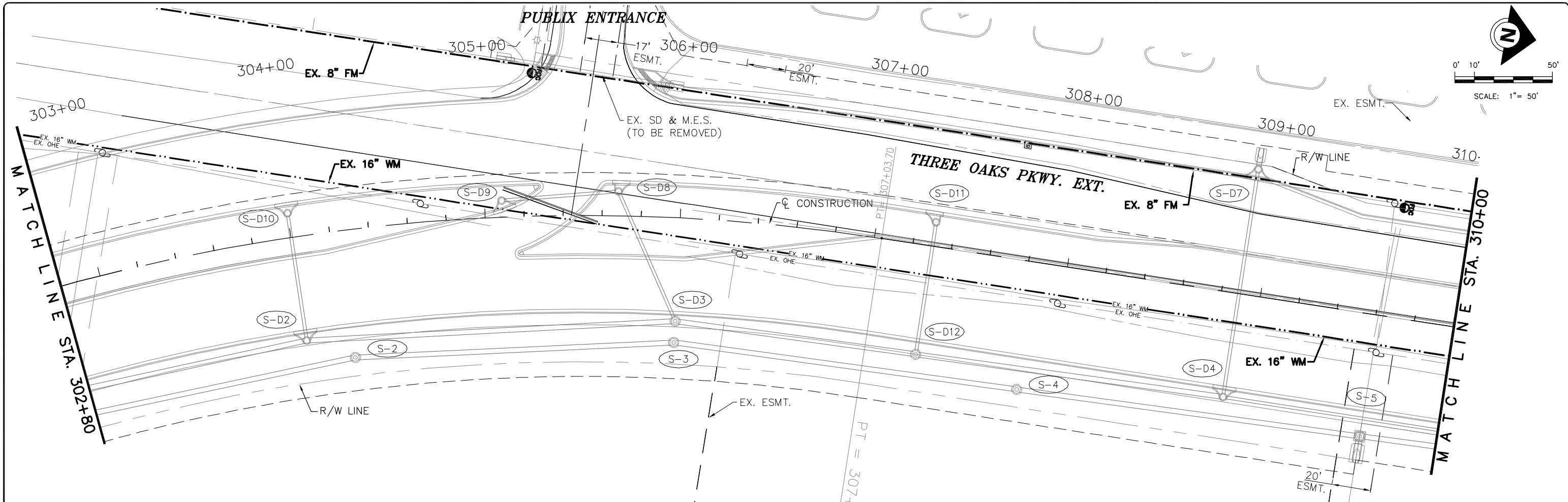
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**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**PLAN & PROFILE 3 OAKS**  
**UTILITY ADJUSTMENT**

SHEET  
**U - 8**



1" = 50' HORIZ.  
1" = 5' VERT.

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DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

FL LICENSE No. 24070

PROJ. 08-372 DATE:  
PROJ. MGR. Jack Schragger, PE  
PROJ. DIR.  
APPROVED:

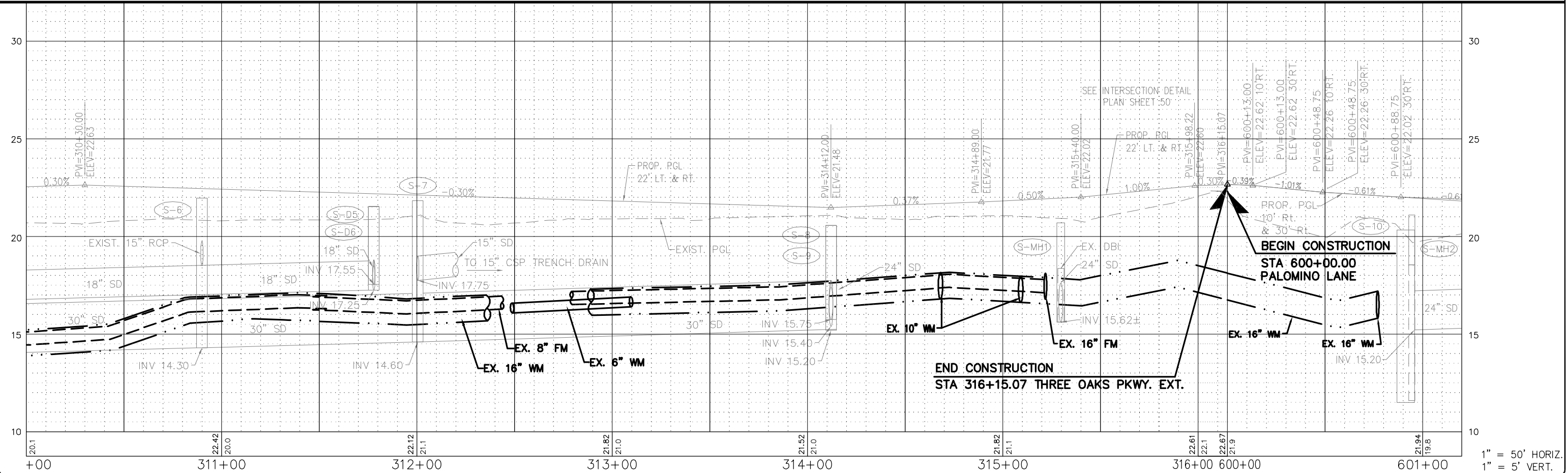
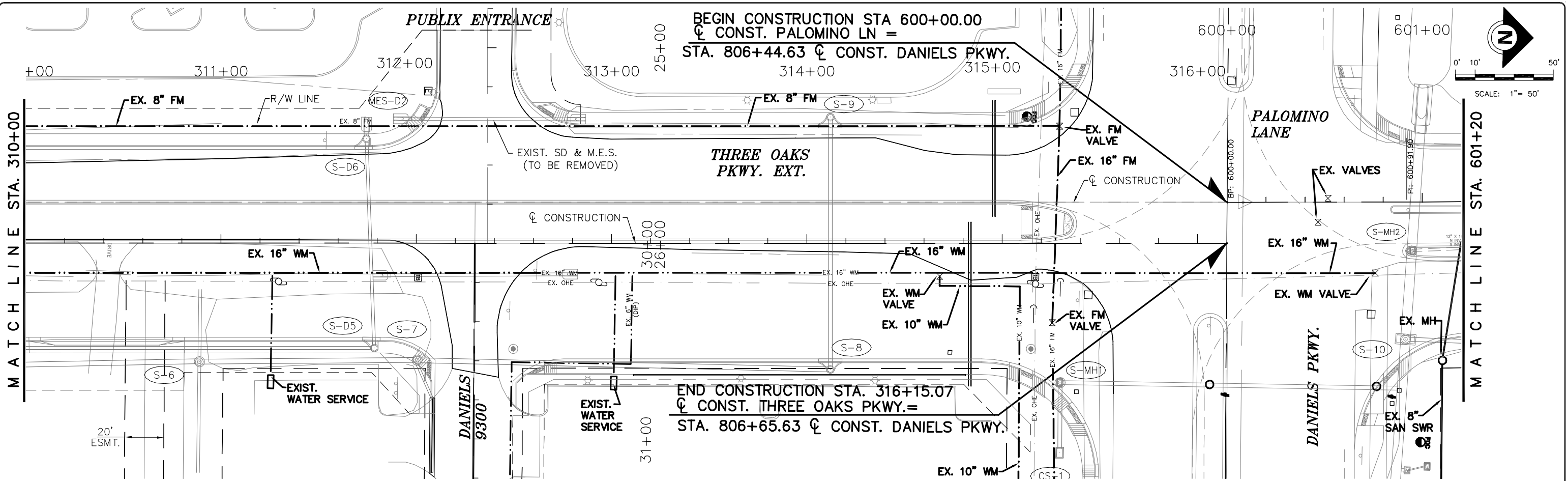
**AVALON ENGINEERING, INC.**  
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**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**PLAN & PROFILE 3 OAKS**  
**UTILITY ADJUSTMENT**

SHEET  
**U - 9**



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8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

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 PROJ. MGR. Jack Schrager, PE  
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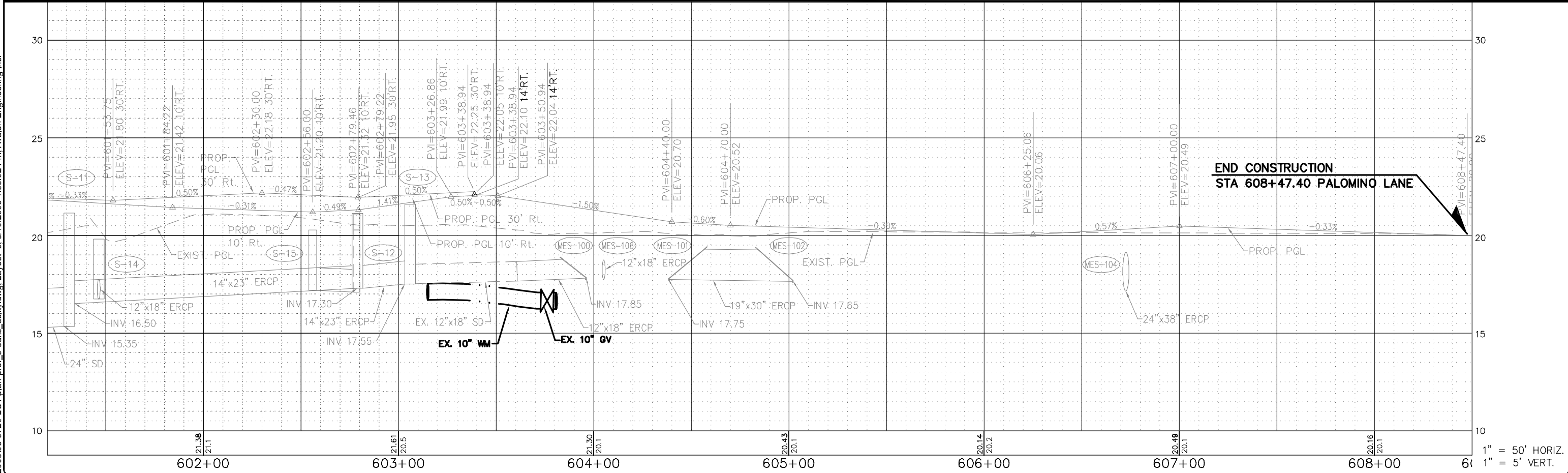
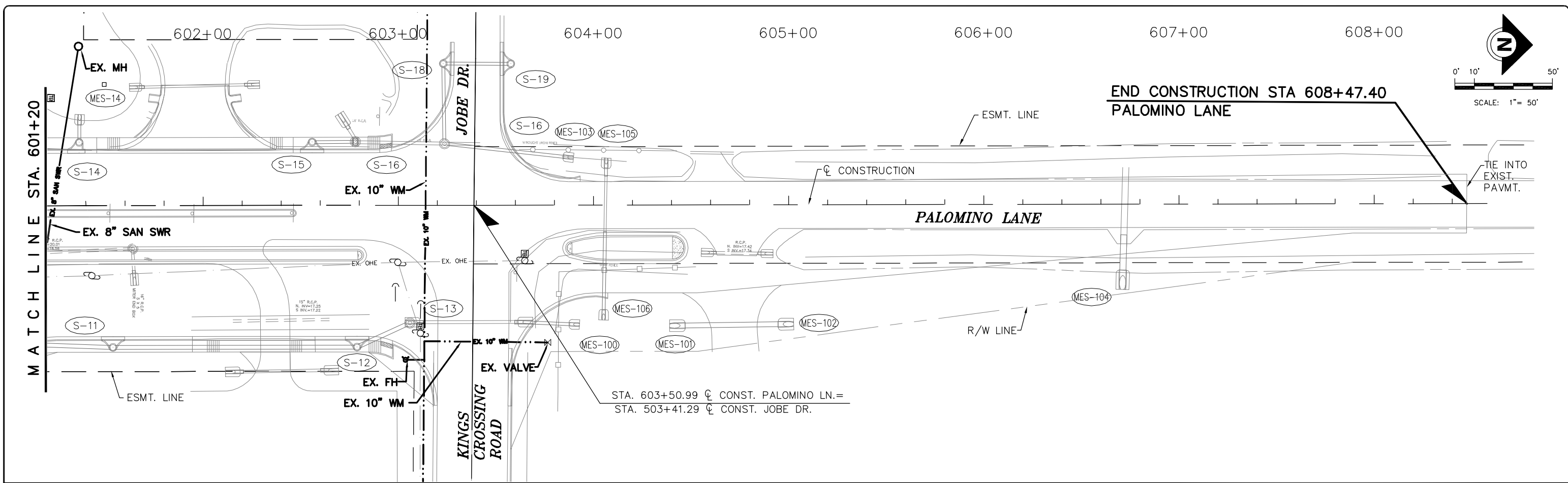
**AVALON ENGINEERING, INC.**  
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**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**PLAN & PROFILE 3 OAKS**  
**UTILITY ADJUSTMENT**

SHEET  
**U - 10**



P:\CAD\2008\08-372\plan-prof\_3-oaks\_utility.dwg, Layout 6, 8/10/2009 1:53:02 PM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

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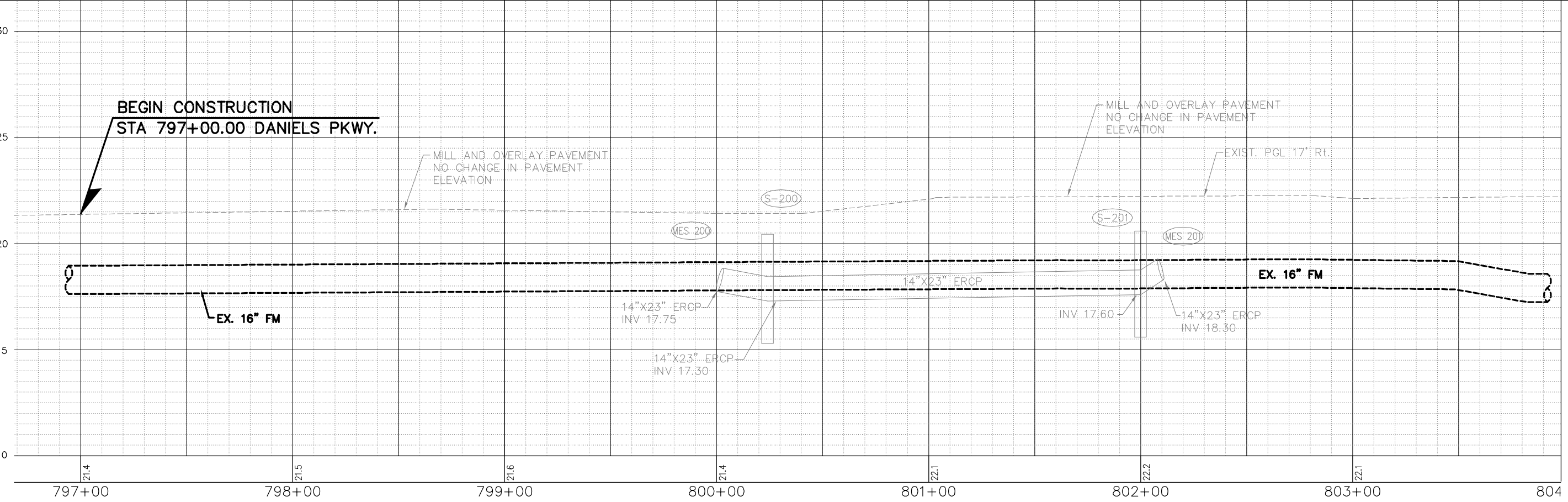
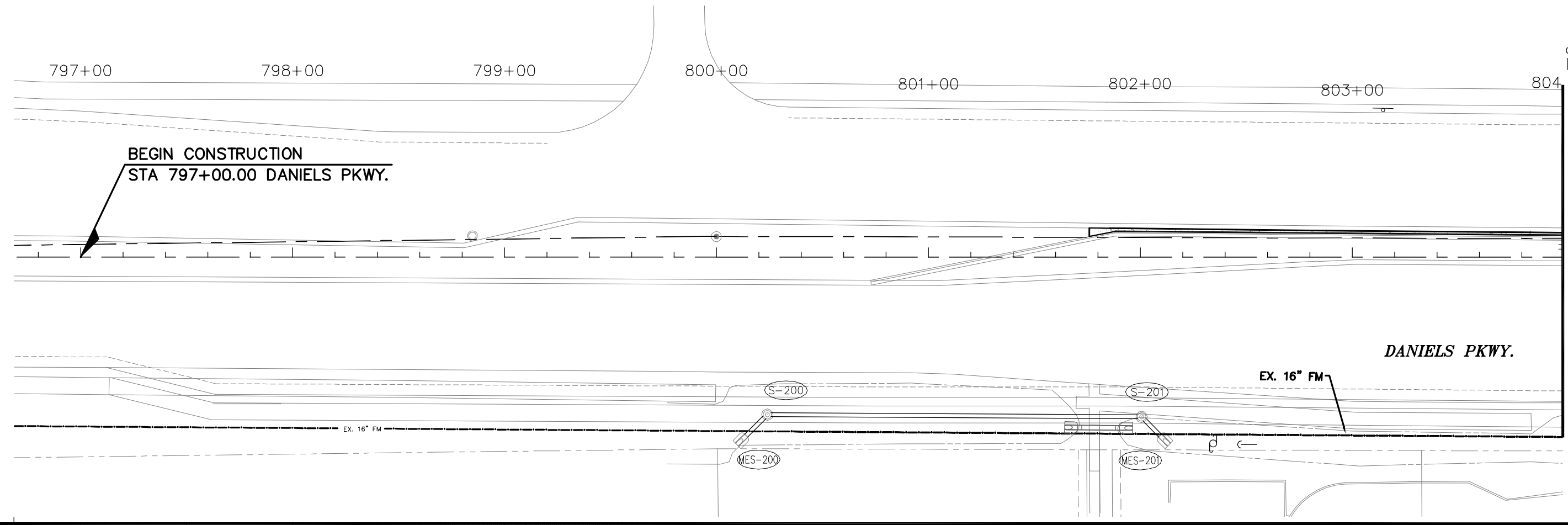
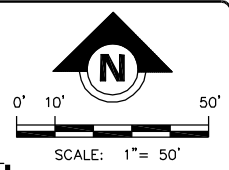
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**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**PLAN & PROFILE 3 OAKS**  
**UTILITY ADJUSTMENT**

SHEET  
**U - 11**





P:\CAD\2008\08-372\PLAN-PROF\_3-OAKS\_SIDE-ST-UTILITY.dwg, Daniels-Pkwy\_1, 8/10/2009 1:53:22 PM, Avalon Engineering Inc.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

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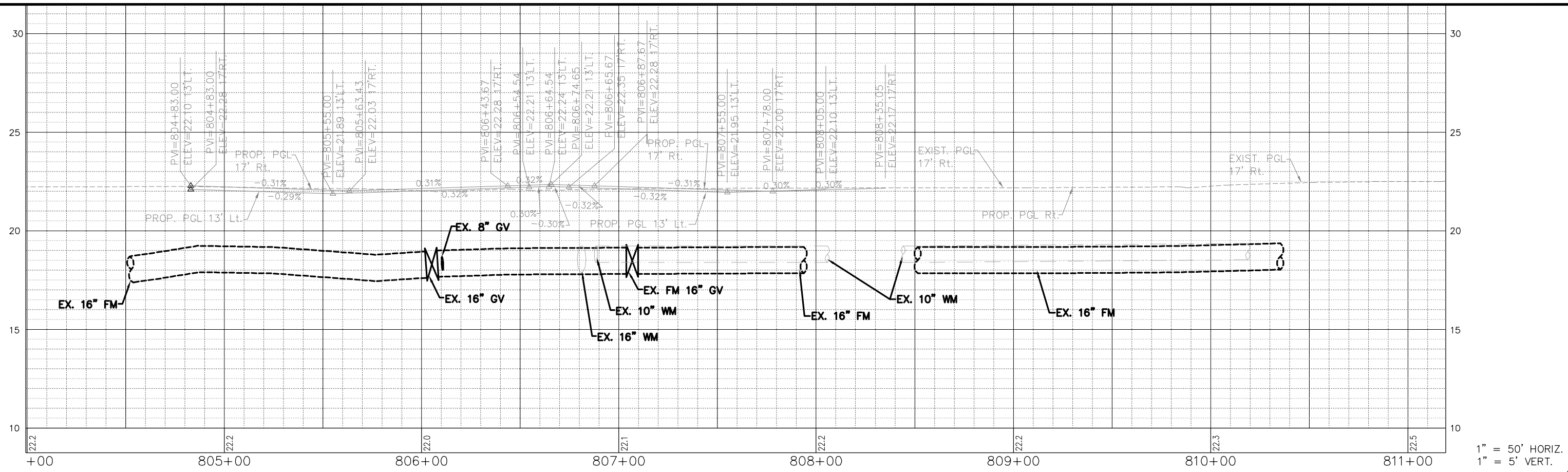
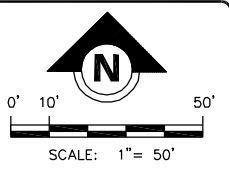
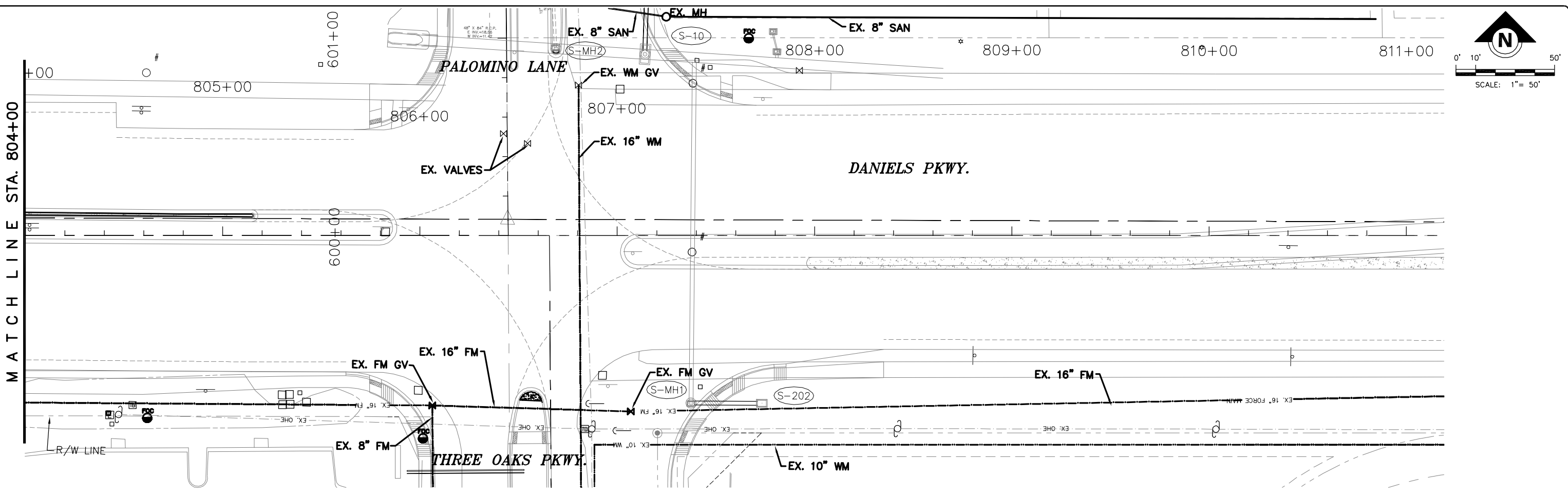
**LEE COUNTY DEPARTMENT OF TRANSPORTATION**  
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**THREE OAKS PARKWAY EXTENSION**  
 AIRPORT CANAL TO DANIELS PKWY.  
 LEE COUNTY, FLORIDA

**PLAN & PROFILE 3 OAKS**  
**UTILITY ADJUSTMENT**

SHEET  
**U - 12**

P:\CAD\2008\08-372\PLAN\PROF\_3-OAKS\_SIDE-ST-UTILITY.dwg, Daniels-Pkwy\_2\_8/10/2009 1:53:31 PM, Avalon Engineering Inc.



1" = 50' HORIZ.  
1" = 5' VERT.

DATE	BY	REVISION DESCRIPTION
8/10/09	JS	60% REVIEW COMMENTS (3/11/09)

**90% SUBMITTAL PLANS**  
(AUGUST - 2009)

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**THREE OAKS PARKWAY EXTENSION**  
AIRPORT CANAL TO DANIELS PKWY.  
LEE COUNTY, FLORIDA

**PLAN & PROFILE 3 OAKS**  
**UTILITY ADJUSTMENT**

SHEET  
**U - 13**