

**SHEET DESCRIPTION**

1	COVER SHEET
2-5	GENERAL NOTES & SPECIFICATIONS
6-7	TYPICAL SECTIONS
8	OVERALL SITE PLAN
9-17	EXISTING CONDITIONS
18-35	PLAN & PROFILE
36-44	SIGNING & PAVEMENT MARKING PLAN
45-71	CROSS SECTIONS

# HIGHLANDS COUNTY BOARD OF COUNTY COMMISSIONERS

## CONSTRUCTION PLANS

### FOR

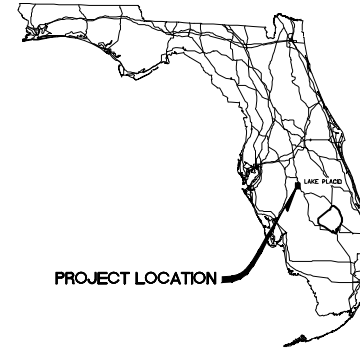
# LAKE JOSEPHINE DRIVE IMPROVEMENTS

## HIGHLANDS COUNTY PROJECT NO. 13008

### FDOT FPID: 430107 1 58 01

*sunshine state*  
**ONE CALL 811**  
OF FLORIDA

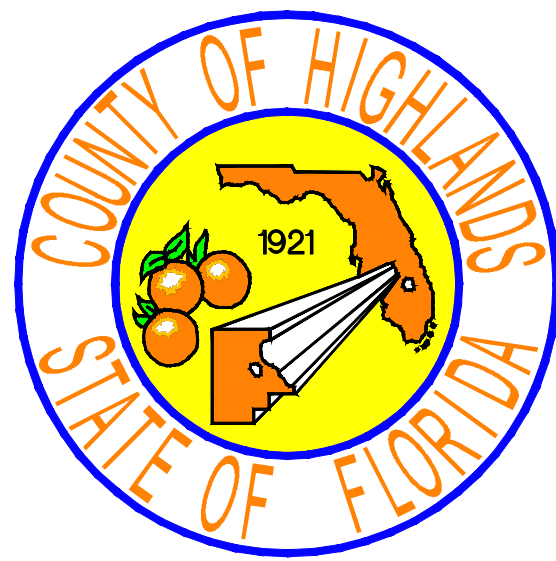
**DIAL 811**  
Local No. 1-800-432-4770  
Notification # 239501141-000  
Call 48 hours before you dig.



STATE LAW REQUIRES EXCAVATORS TO CALL 811 BEFORE DIGGING PER THE "UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT" CHAPTER 556, FLORIDA STATUTES. FAILURE TO CALL CAN RESULT IN FINES FROM \$250 TO \$5,000.



**PROJECT LOCATION MAP**  
SCALE: 1" = 1,500'



**RAMON D. GAVARRETE, P.E.**  
COUNTY ENGINEER

ENGINEER OF RECORD  
**ELIUS F. NORTELUS, P.E.**

RIGHT-OF-WAY WIDTH = 66' WIDE  
APPROXIMATE PROJECT LENGTH = 9,318 LF (1.765 MILE)

**UTILITY COMPANIES**

- |   |   |   |
|---|---|---|
| <p><b>COMCAST CABLE</b><br/>3010 HERRING AVE.<br/>SEBRING, FL 33870<br/>YONHUI MIRANDA<br/>863-381-1409</p> <p><b>CENTURY LINK</b><br/>924 MEMORIAL DR.<br/>AVON PARK, FL 33825<br/>KEN LUTZ<br/>863-452-3185</p> | <p><b>LEVEL 3 COMMUNICATIONS</b><br/>1025 ELDORADO BLVD.<br/>BROOMFIELD, CO 80021<br/>JUDY HENRY<br/>720-888-2061</p> <p><b>HIGHLANDS COUNTY TRAFFIC</b><br/>505 S. COMMERCE AVE.<br/>SEBRING, FLORIDA 33870<br/>EDDIE CARDONA<br/>(863) 402-6877</p> | <p><b>GLADES ELEC. CO-OP INC.</b><br/>PO BOX 519<br/>MOORE HAVEN, FL 33471<br/>GLEN STIMSON<br/>863-465-0231</p> <p><b>US WATER SERVICES CORP.</b><br/>4939 CROSS BAYOU BLVD.<br/>NEW PORT RICHEY, FL 34652<br/>RON DEROSSETT<br/>866-753-8292<br/>904-540-9765</p> |
|---|---|---|

LAKE JOSEPHINE DRIVE IMPROVEMENTS HIGHLANDS COUNTY PROJECT NO. 13008			
BASE BID			
TASK NO.	ITEM DESCRIPTION	QUANTITY	UNIT
1	MOBILIZATION	1	LS
2	BONDS & INSURANCE	1	LS
3	CONSTRUCTION SURVEY STAKING INCLUDING AS-BUILT	1	LS
4	TESTING (DENSITY, ROADWAY THICKNESS)	1	LS
5	MAINTENANCE OF TRAFFIC	1	LS
6	BUSINESS SIGN	4	EA
7	PORTABLE CHANGEABLE MESSAGE SIGNS, TEMPORARY (TWO)	190	ED
8	SEDIMENT BARRIER TEMPORARY	18,000	LF
9	CLEARING AND GRUBBING INCLUDING TREE REMOVAL	1	LS
10	REMOVAL OF EXISTING CONCRETE PAVEMENT DRIVEWAY	1,800	SY
11	REMOVAL OF EXISTING ASPHALT PAVEMENT DRIVEWAY	1,050	SY
12	MAILBOX REMOVE AND RELOCATE	70	EA
13	REGULAR EXCAVATION	1	LS
14	MIX AND COMPACT EXISTING ASPHALT, BASE AND SUB-BASE TO SERVE AS 12" THICK STABILIZATION	35,000	SY
15	OPTIONAL BASE, BASE GROUP 6, 8" COMPACTED THICKNESS	31,000	SY
16	OPTIONAL BASE, BASE GROUP 4, 6" COMPACTED THICKNESS, DRIVEWAY	1,200	SY
17	MILLING EXISTING ASPHALT, 1 1/2" AVG DEPTH	400	SY
18	SUPERPAVE ASPHALTIC CONCRETE, 1 1/2" THICK, RAP 30% MAXIMUM, PLACED IN TWO EQUAL LAYERS, 1/2" THICK EACH (STA 118+06.05 TO STA 119+04.28)	30	TN
19	SUPERPAVE ASPHALTIC CONCRETE, 3" THICK, RAP 30% MAXIMUM, PLACED IN TWO EQUAL LAYERS, 1 1/2" THICK EACH	4,425	TN
20	SUPERPAVE ASPHALTIC CONCRETE, 1 1/2" THICK, RAP 30% MAXIMUM, DRIVEWAY	150	TN
21	INLET, DITCH BOTTOM, TYPE C	2	EA
22	18" x 12" REINFORCED CONCRETE PIPE (RCP)	64	LF
23	18" REINFORCED CONCRETE PIPE (RCP)	10	LF
24	MITERED END SECTION	1	EA
25	CONCRETE DRIVEWAYS, 6" THICK, 6" x 6" W1.4W1.4 WELDED WIRE MESH, 3,000 PSI MINIMUM	1,800	SY
26	PERFORMANCE TURF (SOD)	39,000	SY
27	SINGLE POST SIGN, F & I, STOP (R1-1), 30" x 30" & TWO (2), D3-1	17	AS
28	SINGLE POST SIGN, F & I, SPEED LIMIT, 35 MPH (R2-1), 24" x 30"	5	AS
29	SINGLE POST SIGN, F & I, W5-2, 36" x 36" & W13-1, 24" x 24"	4	AS
30	SINGLE POST SIGN, F & I, OM3R, 12" X36"	8	AS
31	SINGLE POST SIGN, F & I, OM3L, 12" X36"	14	AS
32	SINGLE POST SIGN, F & I, OM2-1V	2	AS
33	SINGLE POST SIGN, F & I, OM2-2V	6	AS
34	SINGLE POST SIGN, F & I, W3-1	1	AS
35	SINGLE POST SIGN, REMOVE & RELOCATE	20	AS
36	SINGLE POST SIGN, REMOVE & DISCARD	30	AS
37	RETRO-REFLECTIVE PAVEMENT MARKERS, BIDIRECTIONAL YELLOW	230	EA
38	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 6"	19,400	LF
39	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 24"	315	LF
40	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, YELLOW, SOLID, 6"	16,000	LF
41	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, YELLOW, SKIP, 6"	760	LF
42	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 18"	700	LF
43	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"	19,400	LF
44	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	315	LF
45	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"	16,000	LF
46	THERMOPLASTIC, STANDARD, YELLOW, SKIP, 6"	760	LF
47	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18"	700	LF
48	RUMBLE STRIPING	6,280	LF

**GOVERNING STANDARDS AND SPECIFICATIONS:**

1. FLORIDA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS DATED 2013, AS AMENDED BY CONTRACT DOCUMENTS.
2. FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS DATED 2016, AS AMENDED BY CONTRACT DOCUMENTS.
3. FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2016, AS AMENDED BY CONTRACT DOCUMENTS.

PLANS PREPARED BY HIGHLANDS COUNTY ENGINEERING DEPARTMENT

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

REVISIONS			STATUS	DESIGNED BY: KEITH BAKER, E.I.		<b>HIGHLANDS COUNTY ENGINEERING DEPARTMENT</b> 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870		LAKE JOSEPHINE DRIVE IMPROVEMENTS		SCALE: HORIZ. N/A VERT. N/A		
DATE	BY	DESCRIPTION	<b>FOR BID</b>	DRAWN BY: KEITH BAKER, E.I.				APPROVED BY: ELIUS F. NORTELUS, P.E. FLORIDA REGISTRATION NO.: 70092	DATE:	COVER SHEET		PROJECT NO. 13008
				CHECKED BY: ELIUS F. NORTELUS, P.E.						SHEET 1 OF 71		
				IN CHARGE: ELIUS F. NORTELUS, P.E.								
				DATE: 5/9/2016								
				DATE:								

# GENERAL NOTES AND SPECIFICATIONS

## GENERAL CONSTRUCTION NOTES

- The Contractor shall be responsible for furnishing all material and labor to construct the facility as shown and described in the construction documents.
- The Contractor shall be responsible for obtaining all required construction bonds prior to construction.
- The Contractor shall have available at the job site at all times one copy of the construction documents including plans, specifications, and special conditions and copies of any required construction permits.
- Any discrepancies on the drawings shall be immediately brought to the attention of the Highlands County Project Manager before commencing work. No field changes or deviations from design are to be made without prior approval of the Highlands County Project Manager.
- Contractor shall submit a construction schedule to the Highlands County Project Manager prior to commencement of construction.
- Contractor shall coordinate proposed driveway construction with affected property owners.
- Contractor shall repair and/or replace all disturbed irrigation. Contractor shall coordinate this activity with affected property owners.

## EROSION CONTROL

- The Contractor shall grade the site to the elevations indicated and shall regrade washouts where they occur after every rainfall event until sod is well established or adequate stabilization occurs.
- Contractor shall denote on plan the temporary parking and storage area which shall also be used as the equipment maintenance and cleaning area, employee parking area, and area for locating toilet facilities
- All wash water (concrete trucks, vehicle cleaning, equipment cleaning, etc.) shall be detained and properly treated and disposed.
- The Contractor shall be responsible for the control of dust and dirt rising and scattering in the air during construction and shall provide water sprinkling or other suitable methods of control. The Contractor shall comply with all governing regulations pertaining to environmental protection.
- The use of motor oils and other petroleum based or toxic liquids for dust suppression operations is prohibited.
- Sod must be installed and maintained on exposed slopes within 48 hours of completing final grading, and at any other time as necessary, to prevent erosion, sedimentation or turbid discharges.
- Stabilization practices should be initiated as soon as practical, but in no case more than 7 days where construction has temporarily ceased.
- All materials spilled, dropped, washed or tracked from vehicles onto roadways or into storm drains must be removed as soon as possible.
- On-site & off-site soil stockpile and borrow areas shall be protected from erosion and sedimentation through implementation of best management practices.
- Slopes shall be left in a roughened condition during the grading phase to reduce runoff velocities and erosion.
- Due to grade changes during the development of the project, the Contractor shall be responsible for adjusting the erosion control measures (silt fence, etc.) to prevent erosion.
- All construction shall be stabilized at the end of each working day, this includes back filling of trenches for utility construction and placement of gravel or bituminous paving for road construction.
- The contractor shall install sediment barrier as shown on plans within the perimeter of the project site.

## SURVEY AND STAKEOUT

- Existing section corners and ¼ Section corners, and other land markers or monuments located within proposed construction are to be referenced prior to construction and reset after construction. The Contractor shall have this work done by a registered Professional Land Surveyor at the Contractor's expense (Florida Registration). Any public land corner within the limits of construction is to be protected. If a corner monument is in danger of being destroyed and has not been properly referenced, the Contractor should notify the County Surveyor, without delay, by telephone (863-402-6877).
- Benchmark data is North American Vertical Datum of 1988 (NAVD 88).
- Any NGVD-29 monument within the limits of construction is to be protected. If in danger of damage, the Contractor should notify: Geodetic Information Center, Attn: Mark Maintenance Section N/CG-162, 6001 Executive Boulevard, Rockville, Maryland 20852. Telephone (301) 43-8319.
- Grades shown are the finished grades, unless otherwise indicated.
- The Contractor shall remove survey stakes and erosion control items prior to the completion of the contract.
- The Contractor shall be responsible for submitting to the Highlands County Project Manager a certified record survey signed and sealed by a Professional Land Surveyor registered in the state of Florida depicting the actual field location of all constructed improvements that are required by the jurisdictional agencies for the certification process. All survey costs will be the Contractor's responsibility.

## UTILITIES

- It is the Contractor's responsibility to contact the various utility companies which may have buried or aerial utilities within or near the construction area before commencing work. The Contractor shall provide 48 hours minimum notice to all utility companies in advance of any excavation involving their utilities so that a company representative can be present. A list of the utility companies which the Contractor MUST call before commencing work is provided in these construction plans. This list serves as a guide only and is not intended to limit the utility companies which the contractor may wish to notify.
- Existing utilities shown are located according to the information available to the Engineer at the time of the topographic survey and have not been independently verified by the Owner or the Engineer. Guarantee is not made that all existing underground utilities are shown or that the location of those shown are entirely accurate. Finding the actual location of any existing utilities is the Contractor's responsibility and shall be done before he/she commences any work in the vicinity. Furthermore, the Contractor shall be fully responsible for any and all damages due to the Contractor's failure to exactly locate and preserve any and all underground utilities. The Owner or Engineer will assume no liability for any damages sustained or cost incurred because of the operations in the vicinity of existing utilities or structures, nor for temporary bracing and shoring of same. If it is necessary to shore, brace, swing or relocate a utility, the utility company or department affected shall be contacted and their permission obtained regarding the method to use for such work. In addition, the Contractor shall be responsible to verify if "other" utilities (Not shown in the plans) exist within the area of construction. Should there be utility conflicts, The Contractor shall inform the Engineer and notify the respective utility owners to resolve utility conflicts and utility adjustments as required.
- The Contractor is to use caution when working in or around areas of overhead transmission lines or underground utilities.
- The Contractor is responsible for the protection of all utilities to remain in place.
- The Contractor shall call 811 for field locations no less than 48 hours in advance of digging near underground utilities.
- Prior to commencement of any excavation, the contractor shall comply with Florida Statute 553.851 for the protection of underground gas pipelines.
- All valves within area of construction or disturbed by construction to be adjusted to finished grade. Replace valve collars and boxes as necessary.

## CLEARING AND GRUBBING

- Contractor shall clear and grub all areas unless otherwise indicated, removing trees, stumps, roots, muck, existing pavement, existing concrete and all other deleterious material.

## PAVING, GRADING AND DRAINAGE

- Where new pavements meets the existing pavement, the Contractor shall saw cut the existing pavement a minimum 2" deep for a smooth and straight joint and match the existing pavement elevation with the proposed pavement unless otherwise indicated.
- All cut or fill slopes shall be 4 (horizontal): 1 (vertical) or flatter unless otherwise shown.
- Existing drainage structures within construction limits shall remain unless noted otherwise.
- Contractor is responsible for repairing any existing concrete or asphalt areas that are disturbed during construction.

## PAVEMENT MARKING AND SIGNAGE

- Stop bars shall be 24" white stripes.
- Temporary pavement markings shall be provided by the end of each day's operation.
- All pavement markings and signage shall be installed in accordance with the Manual on Uniform Traffic Control Devices (MUTCD), 2009 Edition.
- Temporary pavement markings and thermoplastic pavement markings shall be installed via truck mounted spray truck.
- Retro-reflective material shall be 3M brand Diamond Grade material.
- Sign substrate shall be aluminum.
- Traffic signs shall be mounted on 3" diameter post with "Z" bar brackets.
- Sign post underground support shall be 6" aluminum "Z" bar brackets (no concrete).

## SOD

- All disturbed areas within the project limits shall be sodded with "like kind" sod. The areas on which sod is to be placed shall be thoroughly wetted prior to and after placement is complete. No addition of top soil material is required prior to placement.
- All sod materials shall be subject to inspection by the Highlands County Project Manager prior to placement. Any sod with noxious weeds and grasses including tropical soda apple, shall be rejected for use on the spot.
- All areas within the project site shall be sodded unless indicated in these construction plans.

## TESTING

- Contractor shall perform, at his own expense, any and all tests required by the specifications and/or any agency having jurisdiction. A copy of the test results shall be provided to the Highlands County Project Manager.
- The Highlands County Project Manager shall inspect all construction and is authorized to call to the attention of the Contractor any failure of work or materials to conform with the plans and specifications.
- All copies of compaction, concrete and other required test results are to be sent to the Highlands County Project Manager directly from the testing agency.
- Contractor shall perform Pavement Smoothness Testing: The Contractor shall furnish a 15 foot manual and a 15 foot rolling straightedge and construct a smooth pavement meeting the requirements of the Florida Method of Test for Measurement of Pavement Smoothness with the 15-Foot Rolling and Manual Straightedges (Designation: FM 5-509, May 16, 2002, Revised: March 17, 2008).

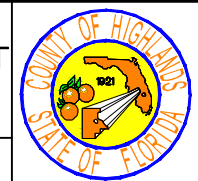
Straightedge Testing: The Contractor shall test the final (top) layer of all pavement where the width is constant using a rolling straightedge either behind the final roller of the paving train or as a separate operation. The Contractor shall correct all deficiencies in excess of 3/16 inch by removing and replacing the full depth of the layer, extending a minimum of 50 feet on both sides of the defective area for the full width of the paving lane, at no additional cost, unless waived by the County Engineer. The Contractor shall retest all corrected areas. The Contractor shall test all pavement lanes and document all deficiencies on a form approved by the Highlands County Project Manager. The Contractor shall notify the Highlands County Project Manager of the location and time of all straightedge testing a minimum of 48 hours before beginning testing.

Straightedge Exceptions: Straightedge testing will not be required in the following areas: shoulders, intersections, tapers, crossovers, sidewalks, bicycle/shared use paths, parking lots and similar areas, or in the following areas when they are less than 250 feet in length: turn lanes, acceleration/deceleration lanes and side streets. In the event the Highlands County Project Manager identifies a surface irregularity in the above areas that is determined to be objectionable, the Contractor shall straightedge and address all deficiencies in excess of 3/8 inch in accordance by removing and replacing the full depth of the layer, extending a minimum of 50 feet on both sides of the defective area for the full width of the paving lane, at no additional cost.

LAKE JOSEPHINE DRIVE IMPROVEMENTS PROJECT NO. 13008		
CONTRACTOR REQUIRED QUALITY CONTROL MATERIALS TESTING		
Roadway Full Depth Construction: TYPE B STABILIZATION (LBR 40) TESTING REQUIREMENTS (12" COMPACTED THICKNESS) INCLUDING SHOULDERS		
TEST NAME	QUALITY CONTROL	ACCEPTANCE
DENSITY	TWENTY (20) PER LIFT, TWENTY (20) TOTAL	Minimum density of 98% of the Modified Proctor maximum density as determined by FM 1-T 180, Method D
THICKNESS	TWENTY (20) PER LIFT, TWENTY (20) TOTAL	Compacted lift thickness = 12", tolerance = 0.5"
LBR	ONE (1) PER LIFT, ONE (1) TOTAL	Undertolerance = 5.0
Stabilization Construction Method: Construct the stabilization in one (1) lift with a compacted lift thickness of twelve (12) inches.		
Roadway Full Depth Construction: OPTIONAL BASE GROUP 6 TESTING REQUIREMENTS (8" COMPACTED THICKNESS)		
TEST NAME	QUALITY CONTROL	ACCEPTANCE
DENSITY	TWENTY (20) PER LIFT, TWENTY (20) TOTAL	Minimum density of 98% of the Modified Proctor maximum density as determined by FM 1-T 180, Method D
THICKNESS	TWENTY (20) PER LIFT, TWENTY (20) TOTAL	Compacted lift thickness = 8", tolerance = 0.5"
LBR	ONE (1) PER MATERIAL TYPE	No undertolerance allowed.
Optional Base Group 6 Construction Method: Construct the base in one (1) lift with a compacted lift thickness of eight (8) inches.		
Roadway Full Depth Construction: ASPHALT TESTING REQUIREMENTS (3.0" COMPACTED THICKNESS)		
TEST NAME	QUALITY CONTROL	ACCEPTANCE
THICKNESS	TWENTY (20) PER LIFT, FOURTY (40) TOTAL	Compacted lift thickness = 1.5", Tolerance = 0.25"
Asphalt Construction Method: Asphalt shall be placed in two (2) lifts with a compacted lift thickness of 1.5".		

REVISIONS					STATUS	DESIGNED BY: KEITH BAKER, E.I.	DRAWN BY: KEITH BAKER, E.I.	CHECKED BY: ELIUS F. NORTELIUS, P.E.	IN CHARGE: ELIUS F. NORTELIUS, P.E.	DATE: 5/9/2016	APPROVED BY: ELIUS F. NORTELIUS, P.E. FLORIDA REGISTRATION NO.: 70092	DATE:	SCALE: HORIZ. N/A VERT. N/A	PROJECT NO. 13008	REV. 0	
DATE	BY	DESCRIPTION	DATE	BY												
					<b>FOR BID</b>											

**HIGHLANDS COUNTY  
ENGINEERING DEPARTMENT**  
505 S. COMMERCE AVENUE  
SEBRING, FLORIDA 33870



**LAKE JOSEPHINE DRIVE  
IMPROVEMENTS**  
  
**GENERAL NOTES & SPECIFICATIONS**

**ALTERNATE NO. 1  
FULL DEPTH RECLAMATION OF LAKE JOSEPHINE DRIVE**

LAKE JOSEPHINE DRIVE IMPROVEMENTS HIGHLANDS COUNTY PROJECT NO. 13008 ALTERNATE 1: FULL DEPTH RECLAMATION OF LAKE JOSEPHINE DRIVE			
TASK NO.	ITEM DESCRIPTION	QUANTITY	UNIT
1	MOBILIZATION	1	LS
2	BONDS & INSURANCE	1	LS
3	CONSTRUCTION SURVEY STAKING INCLUDING AS-BUILT	1	LS
4	TESTING (DENSITY, ROADWAY THICKNESS)	1	LS
5	MAINTENANCE OF TRAFFIC	1	LS
6	BUSINESS SIGN	2	EA
7	PORTABLE CHANGEABLE MESSAGE SIGNS, TEMPORARY (TWO)	190	ED
8	SEDIMENT BARRIER TEMPORARY	18,000	LF
9	CLEARING AND GRUBBING INCLUDING TREE REMOVAL	1	LS
10	REMOVAL OF EXISTING CONCRETE PAVEMENT DRIVEWAY	1,800	SY
11	REMOVAL OF EXISTING ASPHALT PAVEMENT DRIVEWAY	1,050	SY
12	MAILBOX REMOVE AND RELOCATE	70	EA
13	FULL DEPTH RECLAMATION (12")	35,000	SY
14	OPTIONAL BASE, BASE GROUP 6	31,000	SY
15	CEMENT FOR RECLAMATION	230	TN
16	EMULSION FOR RECLAMATION	63,000	GAL
17	MILLING EXISTING ASPH PAVT, 1 1/2" AVG DEPTH	400	SY
18	SUPERPAVE ASPHALTIC CONCRETE, 1 1/2" THICK, RAP 30% MAXIMUM, PLACED IN TWO EQUAL LAYERS, 1/2" THICK EACH (STA 118+06.05 TO STA 119+04.28)	30	TN
19	SUPERPAVE ASPHALTIC CONCRETE, 3" THICK, RAP 30% MAXIMUM, PLACED IN TWO EQUAL LAYERS, 1/2" THICK EACH	4,425	TN
20	SUPERPAVE ASPHALTIC CONCRETE, 1 1/2" THICK, RAP 30% MAXIMUM, DRIVEWAY	150	TN
21	INLET, DITCH BOTTOM, TYPE C	2	EA
22	18" x 12" REINFORCED CONCRETE PIPE (RCP)	64	LF
23	18" REINFORCED CONCRETE PIPE (RCP)	10	LF
24	MITERED END SECTION	1	EA
25	CONCRETE DRIVEWAYS, 6" THICK, 6' x 6' W 1.4 W 1.4 WELDED WIRE MESH, 3,000 PSI MINIMUM	1,800	SY
26	PERFORMANCE TURF (SOD)	39,000	SY
27	SINGLE POST SIGN, F & I, STOP (R1-1), 30" x 30" & TWO (2), D3-1	17	AS
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33	SINGLE POST SIGN, F & I, OM2-2V	6	AS
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47	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18"	700	LF
48	RUMBLE STRIPING	6,280	LF

**1. DESCRIPTION.**

FULL-DEPTH RECLAMATION (FDR), SHALL CONSIST THE PREPARATION OF A BASE COURSE CONSTRUCTED BY IN-PLACE PULVERIZING AND MIXING THE EXISTING ASPHALT PAVEMENT AND BASE MATERIALS, AND THE INTRODUCTION OF ASPHALT EMULSION OR FOAMED ASPHALT AND OTHER ADDITIVES, IF CALLED FOR IN THE MIX DESIGN. IT SHALL BE PROPORTIONED, MIXED, PLACED, COMPACTED, AND CURED IN ACCORDANCE WITH THIS SPECIFICATION, AND SHALL CONFORM TO THE LINES, GRADES, THICKNESSES, TYPICAL SECTION AND CROSS SECTIONS SHOWN IN THE PLAN.

**2. MATERIALS.**

**2.1 ASPHALT EMULSION:** IF THE MIX DESIGN CALLS FOR STABILIZATION WITH ASPHALT EMULSION, UTILIZE CSS-LH OR CMS-2H, MEETING THE REQUIREMENTS OF AASHTO M 208-01 (2009) AND APPROVED BY THE ENGINEER PRIOR TO USE.

**2.2 FOAMED ASPHALT:** IF THE MIX DESIGN CALLS FOR STABILIZATION WITH FOAMED ASPHALT UTILIZE AN ASPHALT BINDER MEETING THE REQUIREMENTS OF THE BITUMINOUS MATERIALS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED JANUARY 2016, SECTION 916, [HTTP://WWW.DOT.STATE.FL.US/PROGRAMMANAGEMENT/IMPLEMENTED/SPECBOOKS/JANUARY2016/FILES/116EBOOK.PDF](http://www.dot.state.fl.us/PROGRAMMANAGEMENT/IMPLEMENTED/SPECBOOKS/JANUARY2016/FILES/116EBOOK.PDF), AND LISTED ON THE FDOT'S APPROVED PRODUCTS LIST.

**2.3 SAMPLING, CERTIFICATION, AND VERIFICATION:** AT ANY TIME DURING THE PROJECT, THE ENGINEER MAY SAMPLE AND TEST THE ASPHALT EMULSION OR ASPHALT BINDER DELIVERED TO THE PROJECT TO VERIFY AND DETERMINE COMPLIANCE WITH SPECIFICATION REQUIREMENTS. WHERE THESE TESTS IDENTIFY MATERIAL OUTSIDE SPECIFICATION REQUIREMENTS, THE ENGINEER MAY REQUIRE THE SUPPLIER TO CEASE SHIPMENT OF THE PRODUCT. FURTHER SHIPMENT OF THE PRODUCT WILL REMAIN SUSPENDED UNTIL THE CAUSE OF THE PROBLEM IS EVALUATED AND CORRECTED BY THE SUPPLIER TO THE SATISFACTION OF THE ENGINEER.

**2.4 WATER:** THE WATER FOR THE BASE COURSE COMPACTION AND FOAMING ADDITIVE (IF USED) SHALL MEET THE REQUIREMENTS OF THE WATER FOR CONCRETE OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED JANUARY 2016, SECTION 923.

**2.5 PORTLAND CEMENT:** PORTLAND CEMENT IN EITHER A DRY OR SLURRY FORM MAY BE ADDED TO THE RECLAIMED MIXTURE IF REQUIRED BY THE MIX DESIGN. SLURRY MADE FROM PORTLAND CEMENT SHALL CONTAIN A MINIMUM OF 30% DRY SOLIDS CONTENT. CEMENT USED FOR FULL DEPTH RECLAMATION SHALL BE TYPE I OR II AND COMPLY WITH THE PORTLAND CEMENT AND BLENDED CEMENT OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED JANUARY 2016, SECTION 921. CEMENT SHALL BE LIMITED TO NO MORE THAN 1.5 PERCENT BY DRY WEIGHT OF RECLAIMED MATERIAL. CEMENT AMOUNTS GREATER THAN 1.5 PERCENT WILL ONLY BE ALLOWED IF APPROVED BY THE ENGINEER.

**2.6 DOCUMENTS:** PROVIDE COPIES OF ALL MATERIALS DELIVERY TICKETS TO THE ENGINEER UPON MATERIALS DELIVERY TO THE PROJECT SITE.

**3. MIX DESIGN.**

PRIOR TO CONSTRUCTION, CONTRACTOR SHALL OBTAIN AN ADEQUATE NUMBER OF CORE SAMPLES TO DEVELOP THE MIX DESIGN(S). REPRESENTATIVE SAMPLES OF THE ASPHALT PAVEMENT MATERIAL, UNDERLYING BASE MATERIAL, AND VIRGIN MATERIALS, WHERE APPLICABLE, SHALL BE SUPPLIED TO AN ACCREDITED LABORATORY FOR TESTING TO DETERMINE THE PROPORTIONS OF ASPHALT EMULSION OR FOAMED ASPHALT, AND OTHER ADDITIVES, IF NECESSARY, NEEDED TO PRODUCE A MIX DESIGN MEETING THE REQUIREMENTS OF TABLE 3-1. THE OPTIMUM BINDER CONTENT SHALL BE THE BINDER CONTENT THAT RESULTS IN THE HIGHEST WET TENSILE STRENGTH WHILE ALSO HAVING 70% RETAINED TENSILE STRENGTH COMPARED TO THE DRY STRENGTH AND ADDITIONALLY HAS A MINIMUM L 800 POUNDS MARSHALL STABILITY. THE MIX DESIGN SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER AND SUBMITTED TO THE ENGINEER PRIOR TO USE FOR APPROVAL.

TEST	TEST METHOD NUMBER	CRITERIA
GRADATION OF RECLAIMED MATERIAL	AASHTO T 27-11	REPORT
DETERMINATION OF OPTIMUM BINDER CONTENT		
COMPACTION EFFORT AT OPTIMUM FLUIDS CONTENT. MARSHALL COMPACTOR; 50 BLOWS/SIDE OR SUPERPAVE GYRATORY COMPACTOR, 100 MM DIAMETER SPECIMENS, 30 GYRATIONS. DENSITY DETERMINATION.	ASPHALT INSTITUTE MS 14, APPENDIX F. ASTM D6926-10 AASHTO T 312-12 FM 1-T 166	REPORT
MARSHALL STABILITY CURE AT 60°C TO CONSTANT WEIGHT. TEST AT 40°C.	ASTM D6927-06	1800 LBS. MINIMUM STABILITY
RESISTANCE OF COMPACTED BITUMINOUS MIXTURE TO MOISTURE INDUCED DAMAGE. 55 TO 75% VACUUM SATURATION, WATER BATH AT 25°C FOR 23 HOURS, LAST HOUR IN WATER BATH AT 40°C.	AASHTO T 283-07 (2011)	70% MINIMUM RETAINED TENSILE STRENGTH

**4. EQUIPMENT.**

**4.1 ROAD RECLAIMER:** CONTRACTOR SHALL UTILIZE A ROAD RECLAIMER SPECIFICALLY DESIGNED FOR PAVEMENT RECLAIMING AND CAPABLE OF PULVERIZING AND MIXING PAVEMENT, BASE MATERIALS, AND SUBGRADE SOIL TO A DEPTH OF 16 INCHES. IT SHALL HAVE THE CAPABILITY OF INTRODUCING AND METERING ADDITIVES UNIFORMLY AND ACCURATELY AND HAVE POSITIVE DISPLACEMENT PUMPS WHICH CAN ACCURATELY METER THE PLANNED AMOUNT OF ASPHALT EMULSION OR FOAMED ASPHALT INTO THE MIXTURE. THE RECLAIMING MACHINE SHALL MIX THE EMULSIFIED OR FOAMED ASPHALT ADDITIVE THOROUGHLY WITH THE RAP AND SOIL MATERIALS. THE PUMP SHALL BE INTERLOCKED WITH THE GROUND SPEED OF THE MACHINE. THE ASPHALT METERING SYSTEM AND WATER METERING SYSTEM SHALL BE CAPABLE OF CONTINUOUSLY MONITORING FLOW AND TOTALING THE QUANTITY OF WATER AND ASPHALT APPLIED INTO THE MIXING CHAMBER. ADDITIVES, IF SPECIFIED, SHALL BE UNIFORMLY DISTRIBUTED AND MIXED WITH THE PULVERIZED MATERIAL AND ANY EXISTING UNDERLYING MATERIAL.

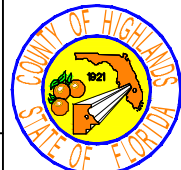
**4.2 MOTOR GRADER:** CONTRACTOR SHALL UTILIZE A MOTOR GRADER OF SUFFICIENT SIZE AND HORSEPOWER TO ADEQUATELY ROUGH GRADE THE PULVERIZED BASE AND ROUGH AND FINISH GRADE THE MIXED AND COMPACTED BASE. THE EQUIPMENT SHALL BE IN GOOD WORKING ORDER FREE FROM LEAKS AND CAPABLE OF MAINTAINING AN ACCURATE GRADE AND CROSS-SLOPE.

**4.3 ROLLERS:** CONTRACTOR SHALL UTILIZE ROLLERS IN GOOD WORKING ORDER FREE FROM LEAKS AND CAPABLE OF COMPACTING THE MIX TO THE REQUIREMENTS OF THIS SPECIFICATION.

**4.4 ADDITIONAL EQUIPMENT:** CONTRACTOR SHALL UTILIZE ADDITIONAL EQUIPMENT AS NEEDED TO COMPLETE THE WORK IN THE CONTRACT.

**5. CONSTRUCTION**

**5.1 LAYOUT:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRING LINING AND LAYOUT OF THE ROADWAY PRIOR TO PAVING. ELEVATIONS OF THE EXISTING ROADWAY MUST BE REFERENCED AT SUFFICIENT INTERVALS TO ENSURE THE ROADWAY ELEVATION IS NOT CHANGED IN ANY LOCATION AFTER THE FINAL SURFACE IS PLACED. MAINTAIN ROADWAY ELEVATIONS EXCEPT FOR CROSS SLOPE CORRECTION OR AS APPROVED BY THE ENGINEER.

REVISIONS		STATUS	DESIGNED BY: KEITH BAKER, E.I.	DRAWN BY: KEITH BAKER, E.I.	CHECKED BY: ELIUS F. NORTELUS, P.E.	IN CHARGE: ELIUS F. NORTELUS, P.E.	DATE: 5/9/2016	APPROVED BY: ELIUS F. NORTELUS, P.E. FLORIDA REGISTRATION NO.: 70092	DATE:		LAKE JOSEPHINE DRIVE IMPROVEMENTS GENERAL NOTES & SPECIFICATIONS	SCALE: HORIZ. N/A VERT. N/A
DATE	BY											DESCRIPTION
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**5.2 WEATHER AND SEASONAL LIMITATIONS:** CONTRACTOR SHALL NOT MIX OR PLACE THE BASE WHILE THE AIR TEMPERATURE IS BELOW 40°F OR WHEN CONDITIONS INDICATE THAT THE TEMPERATURE MAY FALL BELOW 40°F WITHIN 24 HOURS. CONTRACTOR SHALL NOT MIX OR PLACE THE BASE WHEN THE WEATHER IS FOGGY OR RAINY.

**5.3 WIDENING:** WHEN THE EXISTING BASE IS TO BE WIDENED, EXCAVATE THE SHOULDER FROM THE EDGE OF THE EXISTING PAVEMENT TO AT LEAST SIX INCHES BEYOND THE PLANNED NEW WIDTH OF THE BASE PRIOR TO PULVERIZATION. CONTRACTOR SHALL MAINTAIN THE BOTTOM OF THE TRENCH FREE OF LOOSE SOIL AND VEGETATION.

CONTRACTOR SHALL PLACE APPROVED BASE MATERIAL (MATERIALS LISTED IN THE CURRENT FDOT DESIGN STANDARD INDEX NO. 514 AS GENERAL USE OPTIONAL BASE MATERIALS) ONTO THE EXISTING PAVEMENT SO IT CAN BE MIXED IN WITH THE EXISTING PAVEMENT AND BASE MATERIAL DURING THE PULVERIZATION OPERATION TO MAKE A HOMOGENEOUS BASE COURSE ACROSS THE ENTIRE WIDTH OF THE ROAD, INCLUDING THE WIDENING AREA. CONTRACTOR SHALL CORRECT ALL AREAS OF IRREGULAR GRADE OR DEFICIENT THICKNESS AND REMOVE AND REPLACE MATERIAL CONTAMINATED WITH SOIL, ORGANIC MATERIAL, OR DEBRIS.

**5.4 ADDITIONAL MATERIAL:** WHEN ADDITIONAL MATERIAL IS TO BE ADDED TO CORRECT CROSS SLOPE DEFICIENCIES OR CHANGE ELEVATION AS DIRECTED BY THE ENGINEER, CONTRACTOR SHALL USE APPROVED BASE MATERIAL (BASES LISTED IN FDOT DESIGN STANDARD INDEX 514 AS GENERAL USE OPTIONAL BASE MATERIALS) PLACED ON THE ROADWAY PRIOR TO THE FINAL PASS FOR PULVERIZATION AND MIX UNIFORMLY WITH THE EXISTING MATERIAL.

**5.5 PULVERIZATION:** CONTRACTOR SHALL PULVERIZE AND BLEND THE EXISTING PAVEMENT AND BASE MATERIAL TO THE DEPTH REQUIRED SO THAT ALL OF THE MATERIAL SHALL BE UNIFORMLY GRADED IN ACCORDANCE WITH AASHTO T 27-11 TO MEET THE REQUIREMENTS OF TABLE 5-1.

TABLE 5-1 GRADATION REQUIREMENTS FOR PULVERIZED MATERIAL	
SIEVE SIZE	MINIMUM PERCENT PASSING
3 INCHES	100
2 INCHES	95
NO. 4	55
NO. 200*	5

\*FOR ASPHALT EMULSION, THE MAXIMUM ALLOWABLE PERCENT PASSING THE NO. 200 SIEVE IS 20%.

MATERIAL GRADATION MAY VARY DUE TO LOCAL AGGREGATES AND CONDITIONS. A MINIMUM OF TWO PASSES OF THE RECLAIMER IS REQUIRED. ADDITIONAL PASSES MAY BE NECESSARY TO ACHIEVE THE REQUIRED GRADATION.

CONTRACTOR SHALL REMOVE PULVERIZED MATERIAL TO THE DEPTH SHOWN ON THE PLANS.

CONTRACTOR SHALL INTRODUCE THE ASPHALT EMULSION OR FOAMED ASPHALT INTO THE MIX THROUGH THE RECLAIMER UNIFORMLY AND ACCURATELY METERED SUCH THAT AREAS ARE OF EQUAL CONSISTENCY AND MOISTURE CONTENT. CONTRACTOR SHALL COMBINE THE RECLAIMED MATERIAL AND ADDITIVES IN PLACE TO MEET THE REQUIREMENTS SPECIFIED IN SUCH PROPORTIONS THAT THE RECLAIMED MIXTURE IS OF ACCEPTABLE COMPOSITION AND STABILITY. BEFORE THE START AND AT THE END OF EACH DAY'S WORK AND AT ANY TIME REQUESTED, CONTRACTOR SHALL PERMIT THE ENGINEER ACCESS TO THE MIXING EQUIPMENT IN ORDER TO READ THE METER TO VERIFY THE QUANTITY OF ASPHALT EMULSION APPLIED DURING THE DAY'S WORK. CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS, AS NECESSARY, TO THE MIX DESIGN UNDER THE GUIDANCE OF A KNOWLEDGEABLE AND COMPETENT TECHNICIAN OR SUPERINTENDENT TO OBTAIN A SATISFACTORY RECLAIMED MIXTURE OF CONSISTENT COMPOSITION AND STABILITY THROUGHOUT THE PROJECT.

**5.6 COMPACTION:** AFTER THE MATERIAL HAS BEEN PROCESSED, CONTRACTOR SHALL COMPACT THE BASE COURSE TO THE LINES, GRADES, AND DEPTH REQUIRED. CONTRACTOR SHALL APPLY WATER AS NECESSARY TO ENSURE OPTIMUM MOISTURE CONTENT AT THE TIME OF MIXING AND COMPACTION.

CONTRACTOR SHALL OBTAIN DENSITY READINGS USING A NUCLEAR GAUGE IN ACCORDANCE WITH FM 1-T 23 8, WHILE WITNESSED BY THE ENGINEER. WHENEVER THERE IS A CHANGE IN THE RECLAIMED MATERIAL, COMPACTION METHOD, EQUIPMENT, OR UNACCEPTABLE RESULTS OCCUR, CONTRACTOR SHALL CONSTRUCT A NEW CONTROL STRIP. CONTRACTOR SHALL BEGIN ROLLING AT THE LOW SIDE OF THE COURSE, EXCEPT LEAVE THREE TO SIX INCHES FROM ANY UNSUPPORTED EDGE OR EDGES UNROLLED INITIALLY TO PREVENT DISTORTION.

CONTRACTOR SHALL FURNISH THE PROPER NUMBER, WEIGHT AND TYPE OF ROLLERS TO OBTAIN THE REQUIRED COMPACTION OF THE RECLAIMED MATERIAL. CONTRACTOR SHALL COMPACT THE BASE COURSE TO A FIELD DRY DENSITY (I.E. CORRECTED GAUGE WET DENSITY) OF AT LEAST 96.0 PERCENT OF THE MAXIMUM LABORATORY DRY DENSITY.

CONTRACTOR SHALL CORRECT ANY PAVEMENT SHOING OR OTHER UNACCEPTABLE DISPLACEMENT. CONTRACTOR SHALL TAKE CARE IN ROLLING THE EDGES OF THE RECLAIMED MIXTURE SO THE LINE AND GRADE OF THE EDGES ARE MAINTAINED.

AT THE END OF EACH DAY'S PRODUCTION, CONTRACTOR SHALL CONSTRUCT A TRANSVERSE JOINT FORMED BY A HEADER OR BY CUTTING BACK INTO THE COMPACTED MATERIAL TO FORM A TRUE VERTICAL FACE FREE OF LOOSE MATERIAL. CONTRACTOR SHALL PROTECT CONSTRUCTION JOINTS SO THAT THE PLACING, SPREADING, AND COMPACTING OF BASE MATERIAL WILL NOT DAMAGE PREVIOUS WORK. WHERE IT IS NECESSARY TO OPERATE OR TURN ANY EQUIPMENT ON THE COMPLETED BASE COURSE, CONTRACTOR SHALL PROTECT AND COVER THE FINISHED SURFACE USING MATS OR WOOD PLANKS TO PREVENT DAMAGE.

**5.7 THICKNESS:** CONTRACTOR SHALL CONSTRUCT THE BASE TO A DAILY AVERAGE THICKNESS WITHIN 1/2 INCH OF THE PLAN THICKNESS. INDIVIDUAL MEASUREMENTS MAY DEVIATE FROM THE PLAN THICKNESS BY 3/4 INCH. CONTRACTOR SHALL MEASURE THE THICKNESS WHILE BEING WITNESSED BY THE ENGINEER. WHEN THE THICKNESS IS NOT WITHIN THE TOLERANCES GIVEN, THE ENGINEER WILL EVALUATE THE AREA AND DETERMINE IF IT SHALL BE RECONSTRUCTED AT THE CONTRACTOR'S EXPENSE OR THE DEFICIENCY DEDUCTED FROM THE TOTAL MATERIAL IN PLACE.

**5.8 FINISHING:** AFTER COMPLETING ALL BASE COURSE OPERATIONS, CONTRACTOR SHALL ASSURE THE BASE COURSE CONFORMS TO THE REQUIRED LINES, GRADES, AND CROSS SECTION. IF NECESSARY, CONTRACTOR SHALL LIGHTLY SCARIFY THE SURFACE TO ELIMINATE ANY IMPRINTS MADE BY EQUIPMENT AND THEN RECOMPACT THE SURFACE TO THE REQUIRED DENSITY. CONTRACTOR SHALL CORRECT ALL STRAIGHTEDGE OR SURFACE IRREGULARITIES GREATER THAN 1/2 INCH OVER 10 FEET TO THE SATISFACTION OF THE ENGINEER.

**5.9 PROTECTION AND CURING:** CONTRACTOR SHALL PROTECT AND CURE THE COMPLETED BASE COURSE BY APPLYING A PRIME COAT MEETING THE REQUIREMENTS OF PRIME AND TACK COATS OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED JANUARY 2016, SECTION 300 AT A RATE OF 0.15 TO 0.25 GALLONS PER SQUARE YARD. CONTRACTOR SHALL APPLY THE PRIME COAT NO LATER THAN 24 HOURS AFTER THE COMPLETION OF FINISHING OPERATIONS. CONTRACTOR SHALL KEEP THE FINISHED BASE COURSE CONTINUOUSLY MOIST UNTIL THE PRIME COAT IS PLACED. AT THE TIME THE PRIME COAT IS APPLIED, ENSURE THE SURFACE IS DENSE, FREE OF ALL LOOSE AND EXTRANEIOUS MATERIAL, AND CONTAINS SUFFICIENT MOISTURE TO PROMOTE PROPER PENETRATION OF THE BITUMINOUS MATERIAL. CONTRACTOR SHALL APPLY WATER IN SUFFICIENT QUANTITY TO FILL THE SURFACE Voids IMMEDIATELY BEFORE THE BITUMINOUS CURING MATERIAL IS APPLIED. CONTRACTOR SHALL CURE THE RECLAIMED BASE UNTIL THE MOISTURE CONTENT REDUCES TO 2.0 PERCENT OR LESS.

TO PREVENT EQUIPMENT FROM MARRING OR DAMAGING THE COMPLETED WORK, CONTRACTOR SHALL PROTECT FINISHED PORTIONS OF BASE USED BY EQUIPMENT. CONTRACTOR SHALL NOT ALLOW TRAFFIC ON THE RECLAIMED BASE UNTIL IT IS ASSURED THE RECLAIMED BASE SURFACE WILL NOT DISTORT, SHOVE, OR RAVEL UNDER THE ANTICIPATED VEHICULAR LOADING.

**6 QUALITY CONTROL TESTING.**

**6.1 FREQUENCY:** CONTRACTOR SHALL PERFORM THE FOLLOWING QUALITY CONTROL TESTS AT THE PRESCRIBED FREQUENCY. CONTRACTOR SHALL RANDOMLY DETERMINE SAMPLE LOCATIONS IN ACCORDANCE WITH ASTM D 3665-12 OR EQUIVALENT. CONTRACTOR SHALL CORRECT ALL DEFICIENCIES UNLESS OTHERWISE APPROVED BY THE ENGINEER.

**6.2 RECLAIMED MATERIAL GRADATION:** CONTRACTOR SHALL DETERMINE THE PERCENT PASSING THE FOLLOWING SIEVE SIZES: 3 INCHES, 2 INCHES, NO. 4, AND NO. 200. CONTRACTOR SHALL OBTAIN A SAMPLE AT A FREQUENCY OF ONE SAMPLE PER 3,000 SQUARE YARDS MEETING THE REQUIREMENTS OF TABLE 5-1. IF THE REQUIREMENTS OF TABLE 5-1 ARE NOT MET, CONTRACTOR SHALL ADJUST THE PULVERIZATION OPERATION SO THAT THE RESULTANT MATERIAL WILL MEET SPECIFICATION REQUIREMENTS OR TO THE SATISFACTION OF THE ENGINEER.

**6.3 MOISTURE/DENSITY RELATIONSHIP OF RECLAIMED BASE:** CONTRACTOR SHALL ESTABLISH A WET/DRY DENSITY RELATIONSHIP FOR DENSITY SPECIFICATION COMPLIANCE BY OBTAINING A SAMPLE AT THE LOCATION OF EACH NUCLEAR DENSITY MEASUREMENT, AT A FREQUENCY OF ONCE PER 1000 SQUARE YARDS. CONTRACTOR SHALL DETERMINE THE MOISTURE CONTENT IN ACCORDANCE WITH AASHTO T 110-03 (2011), AASHTO T 265-12, OR ASTM D 4643-08.

**6.4 IN-PLACE FIELD DENSITY:** CONTRACTOR SHALL PERFORM ONE NUCLEAR DENSITY TEST PER 1000 SQUARE YARDS. THE DRY FIELD DENSITY (I.E. CORRECTED GAUGE WET DENSITY) OF THE COMPACTED MIXTURE SHALL BE AT LEAST 96.0 PERCENT OF THE MAXIMUM LABORATORY DRY DENSITY. NO INDIVIDUAL DENSITY TEST SHALL BE LOWER THAN 92.0 PERCENT OF THE MAXIMUM LABORATORY DRY DENSITY. IF ONE DENSITY TEST IS BELOW 92.0 PERCENT OR TWO CONSECUTIVE DENSITY TESTS ARE BELOW 96.0 PERCENT OF THE MAXIMUM LABORATORY DRY DENSITY, CONTRACTOR SHALL CEASE PRODUCTION AND RESOLVE THE ISSUE TO THE SATISFACTION OF THE ENGINEER BEFORE RESUMING PRODUCTION.

**6.5 MARSHALL STABILITY:** CONTRACTOR SHALL PERFORM MARSHALL STABILITY TESTING TWICE PER DAY OR ONCE PER DAY IF LESS THAN 1500 SQUARE YARDS IS RECLAIMED MEETING THE REQUIREMENTS OF TABLE 3-1. IF THE MARSHALL STABILITY DOES NOT MEET THE REQUIREMENTS OF TABLE 3-1, CONTRACTOR SHALL CEASE PRODUCTION AND RESOLVE THE ISSUE TO THE SATISFACTION OF THE ENGINEER BEFORE RESUMING PRODUCTION.

**6.6 RETAINED TENSILE STRENGTH:** CONTRACTOR SHALL PERFORM RETAINED TENSILE STRENGTH TESTING TWICE PER DAY OR ONCE PER DAY IF LESS THAN 1500 SQUARE YARDS IS RECLAIMED MEETING THE REQUIREMENTS OF TABLE 3-1. IF THE RETAINED TENSILE STRENGTH DOES NOT MEET THE REQUIREMENTS OF TABLE 3-1, CONTRACTOR SHALL CEASE PRODUCTION AND RESOLVE THE ISSUE TO THE SATISFACTION OF THE ENGINEER BEFORE RESUMING PRODUCTION.

**6.7 DEPTH OF MIXING:** CONTRACTOR SHALL DETERMINE THE DEPTH OF MIXING AT LEAST ONCE PER 250 SQUARE YARDS MEETING THE REQUIREMENTS OF 5. 7.

**6.8 CROSS SLOPE MEASUREMENT:** CONTRACTOR SHALL MEET THE REQUIREMENTS OF THE FOLLOWING TABLE 6-1. ADDITIONAL SAMPLING AND TESTING MAY BE REQUIRED IF SIGNIFICANT CHANGES IN THE CHARACTERISTICS OF THE RECLAIMED MATERIAL ARE OBSERVED, SUCH AS A MUCH COARSER OR FINER GRADATION OR A NOTICEABLE DIFFERENCE IN ASPHALT CONTENT, OR WHEN THERE IS CONSIDERABLE VARIABILITY IN THE FIELD TEST RESULTS.

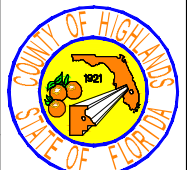
Table 6-1 Cross Slope Acceptance Tolerance		
Roadway Feature	Individual Absolute Deviation	Average Absolute Deviation
Tangent Section (including turn lane)	0.4%	0.2%
Superelevated Curve	0.4%	0.2%
Shoulder	0.5%	0.5%

**7. ACCEPTANCE**

ACCEPTANCE OF THE MATERIAL WILL BE BASED ON PROVIDING DOCUMENTATION THAT COMPONENT MATERIALS MEET THE REQUIREMENTS OF THE ABOVE SECTION 2 AND BY QUALITY CONTROL TEST RESULTS MEETING THE REQUIREMENTS OF THE ABOVE SECTION 6.

**ALTERNATE NO. 2 (ADDITIVE)  
CONCRETE SIDEWALK CONSTRUCTION  
FROM STA 86+85 TO STA 118+20**

LAKE JOSEPHINE DRIVE IMPROVEMENTS HIGHLANDS COUNTY PROJECT NO. 13008 ALTERNATE NO. 2: SIDEWALK CONSTRUCTION (STA 86+85 TO STA 118+20)			
TASK NO.	ITEM DESCRIPTION	QUANTITY	UNIT
1	MOBILIZATION	1	LS
2	CONSTRUCTION SURVEY STAKING	1	LS
3	TESTING	1	LS
4	OPTIONAL BASE, BASE GROUP 1, 4" THICK	2,300	SY
5	SIDEWALK CONCRETE, 4" THICK, 2,500 PSI MINIMUM	1,600	SY
6	DETECTABLE WARNINGS (COLOR YELLOW) (EMBEDDED)	11	EA
7	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 12"	650	LF
8	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12"	650	LF

<b>REVISIONS</b> DATE BY DESCRIPTION			<b>STATUS</b>  <div style="text-align: center; font-size: 2em; color: red; font-weight: bold;">FOR BID</div>		DESIGNED BY: KETH BAKER, E.I. DRAWN BY: KETH BAKER, E.I. CHECKED BY: ELIUS F. NORTELUS, P.E. IN CHARGE: ELIUS F. NORTELUS, P.E. DATE: 5/9/2016		<b>HIGHLANDS COUNTY ENGINEERING DEPARTMENT</b> 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870				<b>LAKE JOSEPHINE DRIVE IMPROVEMENTS</b>  GENERAL NOTES & SPECIFICATIONS		SCALE: HORIZ. N/A VERT. N/A PROJECT NO. 13008 REV. 0	
APPROVED BY: ELIUS F. NORTELUS, P.E. FLORIDA REGISTRATION NO.: 70092					DATE:						SHEET 4 OF 71			

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**ALTERNATE NO. 3 (DEDUCTIVE)  
ASPHALT (SUPERPAVE ASPHALT CONCRTE, TYPE SP-9.5)**

- 1.1 CONTRACTOR shall be responsible for retrieving the asphalt from the Highlands County's (OWNER'S) asphalt plant and for placing the asphalt at CONTRACTOR's cost. CONTRACTOR shall not be charged for the asphalt. OWNER's asphalt plant is located at 12700 Arbuckle Creek Road, Sebring FL 33870.
- 1.2 The amount of reclaimed asphalt pavement (RAP) material shall not exceed 30% by weight of total aggregate for the asphalt.
- 1.3 The thickness of the compacted asphalt for all roadway and parking lot shall be 1 1/2" thick and the asphalt shall be placed by the CONTRACTOR in one equal layer.
- 1.4 The OWNER shall maintain the following quality control system by performing the following activities:
1. Stockpiles:
    - a. Assure materials are placed in the correct stockpile.
    - b. Inspect stockpiles for separation, contamination, segregation, and other similar items.
    - c. Properly identify and label each stockpile.
  2. Incoming Aggregate from Outside Supplier:
    - a. Obtain gradations and bulk specific gravity values from aggregate supplier.
  3. Cold Bins:
    - a. Calibrate the cold gate/feeder belt for each material.
    - b. Observe operation of cold feeder for uniformity.
    - c. Verify that the correct components are being used, and that all modifiers or additives or both are being incorporated in the mix.
  4. Batch Plants:
    - a. Determine the percent used and weight to be pulled from each bin to assure compliance with the mix design.
    - b. Check mixing time.
    - c. Check operations of weigh bucket and scales.
  5. Drum Mixer Plants:
    - a. Determine aggregate moisture content.
  6. Control Charts: Maintain data and make available upon demand.
    - a. Gradation of incoming aggregate from outside supplier.
  7. A copy of the certified mix design should be provided by the OWNER upon demand.
- 1.5 OWNER shall perform the following testing to be conducted by an FDOT Construction Training Qualification Program Certified Asphalt Plant Technician.

County Owned Asphalt Plant – Materials Testing Frequencies		
MATERIAL	PROPERTY	MINIMUM TESTING FREQUENCY
Asphalt Mix	Asphalt Binder Content	If daily production > 100 tons, once per day; If daily production > 1,000 tons, twice per day. *
Asphalt Mix	Gradation	If daily production > 100 tons, once per day; If daily production > 1,000 tons, twice per day. *
Asphalt Mix	Temperature	Each of first 5 loads, then once every 5 loads thereafter, per day per mix design.

*\* If less than 100 tons of mix is produced on each of successive days of production, resulting in a cumulative quantity of greater than 100 tons.*

- 1.6 CONTRACTOR shall notify the PROJECT MANAGER ([kjbaker@hcbcc.org](mailto:kjbaker@hcbcc.org)) and OWNER's Road and Bridge Superintendent ([kgreen@hcbcc.org](mailto:kgreen@hcbcc.org)) in writing via email at least 2 business days in advance prior to retrieval of the asphalt. If CONTRACTOR requests the asphalt and does not retrieve the asphalt after OWNER has produced the asphalt, CONTRACTOR shall reimburse OWNER for the asphalt mix at a unit price of \$70.00/ton or the current unit price at that time, not to exceed \$70.00/ton. CONTRACTOR shall provide an estimated quantity of asphalt to OWNER when requesting asphalt.
- 1.7 If OWNER's asphalt plant breaks down during construction of the project, there will be no change in the Contract price.
- 1.8 Once the asphalt is loaded into the truck and the asphalt plant delivery paperwork is signed or recorded, CONTRACTOR shall be responsible for the quality control of the asphalt.
- A visible truck identification number shall be posted on the passenger side door of each vehicle used to retrieve asphalt by or for CONTRACTOR for weight and project tracking information purposes. CONTRACTOR shall coordinate with OWNER's Road and Bridge Superintendent the weighing of the truck and affixing the vehicle identification number prior to any vehicle retrieving the asphalt.
- 1.9 Any load or portion of load of asphalt mix at the plant or at the roadway with a temperature reading outside the relevant master range shown in the table below shall be rejected. CONTRACTOR shall immediately notify the PROJECT MANAGER if all or any portion of a load of asphalt is rejected. If the asphalt mix is rejected at the plant, OWNER shall be responsible for the cost. If the asphalt mix is rejected at the roadway or anywhere else outside the plant, CONTRACTOR shall reimburse OWNER for the asphalt mix at a unit price of \$70.00/ton or the current unit price at that time, not to exceed \$70.00/ton.

Asphalt Mix Temperature Master Range Tolerance	
LOCATION	ACCEPTABLE TEMPERATURE TOLERANCE
Plant	Mixing Temperature: 305° F +/- 30° F
Roadway/Site	Compaction Temperature: 305° F +/- 30° F

- 1.10 The asphalt mix shall be transported by CONTRACTOR in truck bodies previously cleaned of all foreign material and of tight construction that prevents the loss of material and the excessive loss of heat. After cleaning, CONTRACTOR shall thinly coat the inside surface of the truck bodies with soapy water or an asphalt release agent as needed to prevent the asphalt mixture from adhering to the beds. CONTRACTOR shall not allow excess liquid to pond in the truck body. CONTRACTOR shall not use a release agent that will contaminate, degrade or alter the characteristics of the asphalt mix or is hazardous or detrimental to the environment. Petroleum derivatives (such as diesel fuel), solvents, and any product that dissolves asphalt are prohibited. CONTRACTOR shall provide each truck with a tarpaulin or other waterproof cover mounted in such a manner that it can cover the entire load when required. When in place, CONTRACTOR shall overlap the waterproof cover on all sides so that it can be tied down. CONTRACTOR shall cover each load with a tarpaulin or waterproof cover during cool and cloudy weather and at any time it appears rain is likely during transit.

**1.11 ASPHALT WARRANTY**

CONTRACTOR shall be responsible for performance of the asphalt pavement for a period of two (2) years after the date the final payment is made including continued responsibility for performing all remedial work associated with pavement distresses exceeding threshold values as specified in the table below.

OWNER shall monitor the pavement for distresses and may require remedial action at any time within the two years period as specified above. OWNER shall conduct a Pavement Condition Survey (survey) of the asphalt following the final acceptance of the Work and at intermediate times throughout the warranty period with findings provided when considered by OWNER to be the obligation of CONTRACTOR.

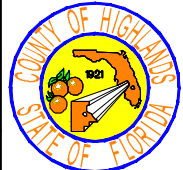
The final survey, if determined by the PROJECT MANAGER to be necessary, shall be conducted before the end of the warranty period with results provided to CONTRACTOR for those conditions exceeding contract threshold values requiring remedial action that OWNER believes to be an obligation of CONTRACTOR. OWNER shall be responsible for all costs associated with the surveys.

All remedial action shall be completed by CONTRACTOR within (30) thirty calendar days after OWNER notifies CONTRACTOR of the condition requiring remedial work, provided that OWNER notified CONTRACTOR of the condition and need for remedial action prior to the end of the warranty period.

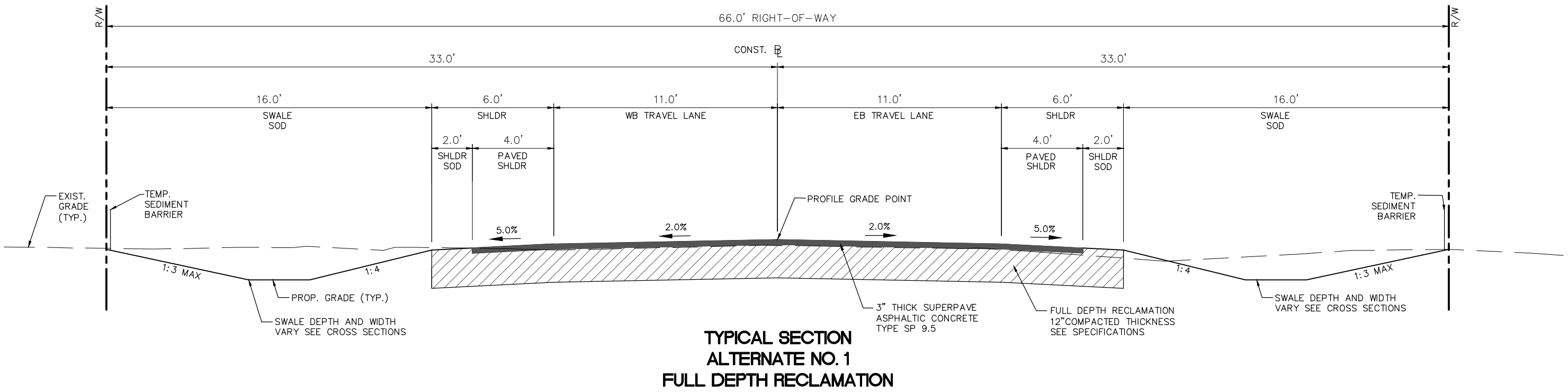
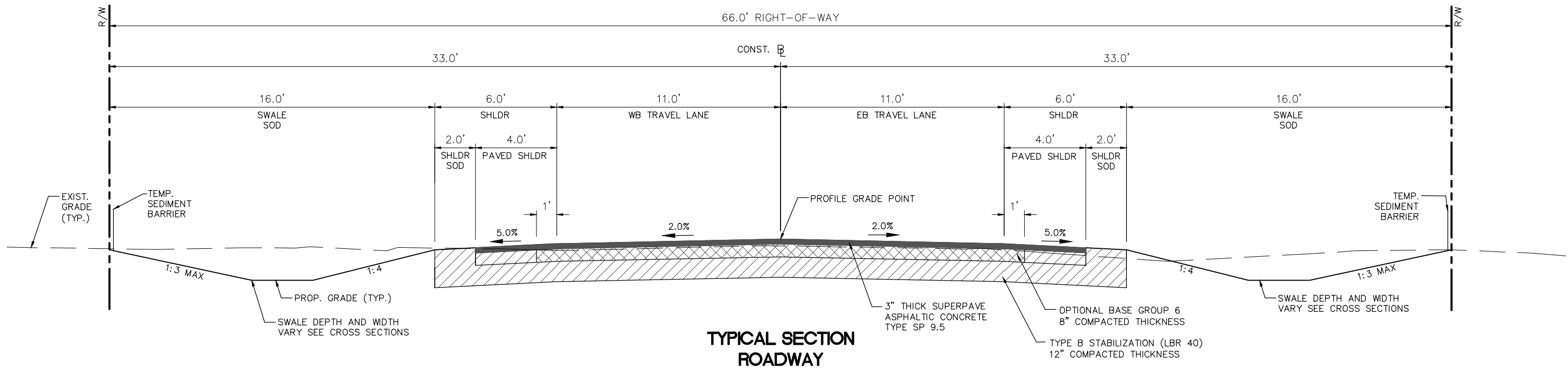
If the survey findings, intermediate or final, are to be disputed by CONTRACTOR, written notification shall be provided to the PROJECT MANAGER within 30 calendar days of the date of receipt of the information from OWNER.

During the warranty period, CONTRACTOR may monitor the project using nondestructive methods and may participate with OWNER in the Pavement Condition Surveys upon request. CONTRACTOR shall not conduct any coring, milling or other destructive methods without prior approval by the PROJECT MANAGER.

Pavement Roadway and Site			
TYPE OF DISTRESS	MEASUREMENT	THRESHOLD VALUES	REMEDIAL WORK
Rutting	Depth of rutting to be determined by a 6 foot manual straightedge.	Depth > 0.4 inch	Remove and replace 1.5 inch the full lane width for the area plus 50 feet on each end.
Settlement / Depression	Depth of settlement / depression to be determined by a 6 foot manual straightedge.	Depth ≥ 1/2 inch	Propose the method of correction to the PROJECT MANAGER for approval prior to beginning remedial work.
Cracking	Beginning and ending of 1/8 inch cracking will be determined as the average of three measurements taken at one foot intervals.	Cumulative length of cracking > 30 feet for Cracks > 1/8 inch	Remove and replace the distressed length to the full depth of all layer, and to the full lane width.
Raveling / Surface Deterioration	Visual Inspection	Observation by PROJECT MANAGER	Remove and replace the distressed area(s) to the full distressed depth and the full lane width for the full distressed length plus 50' on each end.

REVISIONS					STATUS	DESIGNED BY: KEITH BAKER, E.I.	DRAWN BY: KEITH BAKER, E.I.	CHECKED BY: ELIUS F. NORTELUS, P.E.	IN CHARGE: ELIUS F. NORTELUS, P.E.	DATE: 5/9/2016	APPROVED BY: ELIUS F. NORTELUS, P.E. FLORIDA REGISTRATION NO.: 70092	DATE:		SCALE:		
DATE	BY	DESCRIPTION	DATE	BY										HORIZ.	VERT.	
					<b>FOR BID</b>	<b>HIGHLANDS COUNTY ENGINEERING DEPARTMENT</b> 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870							<b>LAKE JOSEPHINE DRIVE IMPROVEMENTS</b>		PROJECT NO. 13008	REV. 0
GENERAL NOTES & SPECIFICATIONS														SHEET 5 OF 71		

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REVISIONS		
DATE	BY	DESCRIPTION

**STATUS**

**FOR BID**

DESIGNED BY:  
KEITH BAKER, E.I.

DRAWN BY:  
KEITH BAKER, E.I.

CHECKED BY:  
ELIUS F. NORTELUS, P.E.

IN CHARGE:  
ELIUS F. NORTELUS, P.E.

DATE:  
5/9/2016

**HIGHLANDS COUNTY ENGINEERING DEPARTMENT**  
505 S. COMMERCE AVENUE  
SEBRING, FLORIDA 33870

APPROVED BY: N/A  
FLORIDA REGISTRATION NO.: N/A

DATE:



**LAKE JOSEPHINE DRIVE IMPROVEMENTS**

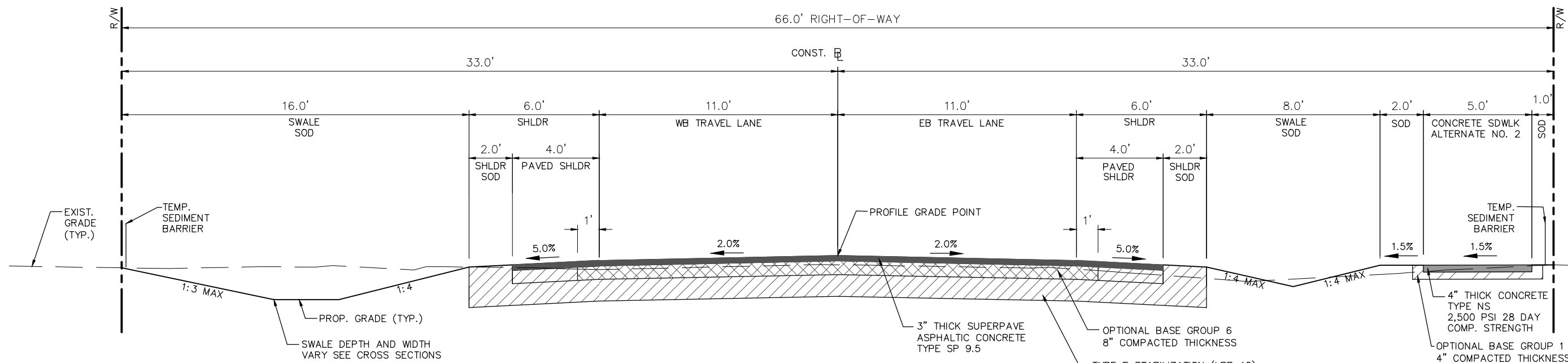
TYPICAL SECTIONS

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VERT. 1"=5'

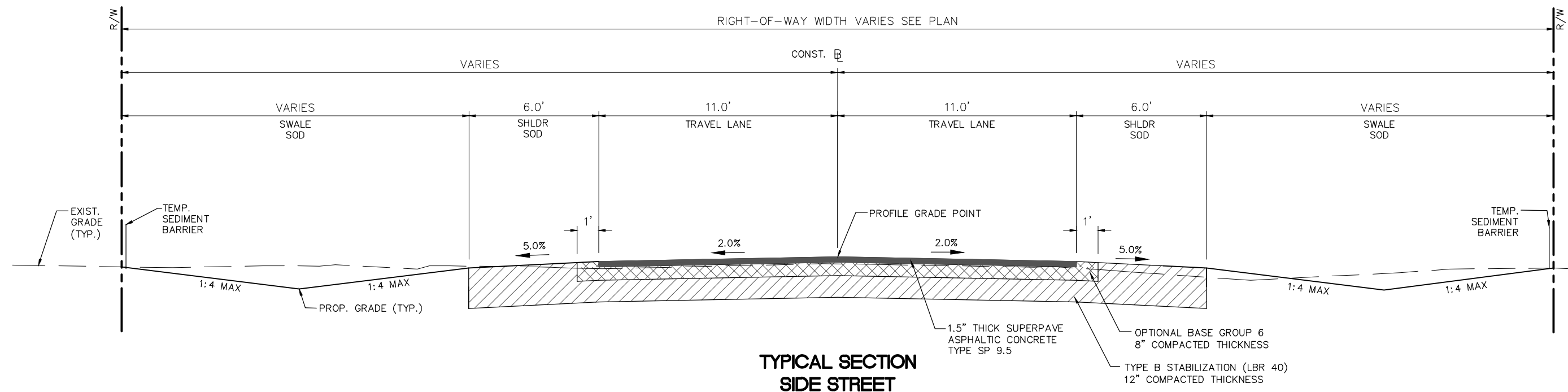
PROJECT NO. 13008

REV. 0

SHEET 6 OF 71



**TYPICAL SECTION  
ALTERNATE NO. 2  
CONCRETE SIDEWALK CONSTRUCTION  
FROM STA 86+89 TO STA 118+15**



**TYPICAL SECTION  
SIDE STREET**

REVISIONS		
DATE	BY	DESCRIPTION

STATUS
FOR BID

DESIGNED BY:  
KEITH BAKER, E.I.

DRAWN BY:  
KEITH BAKER, E.I.

CHECKED BY:  
ELIUS F. NORTELUS, P.E.

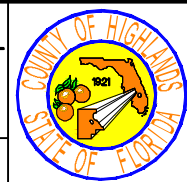
IN CHARGE:  
ELIUS F. NORTELUS, P.E.

DATE:  
5/9/2016

**HIGHLANDS COUNTY  
ENGINEERING DEPARTMENT**  
505 S. COMMERCE AVENUE  
SEBRING, FLORIDA 33870

APPROVED BY: N/A  
FLORIDA REGISTRATION NO.: N/A

DATE:



**LAKE JOSEPHINE DRIVE  
IMPROVEMENTS**

TYPICAL SECTIONS

SCALE: HORIZ. 1"=5' VERT. 1"=5'	
PROJECT NO. 13008	REV. 0



REVISIONS		STATUS
DATE	DESCRIPTION	
		<b>FOR BID</b>

DESIGNED BY:  
KETH BAKER, E.I.

DRAWN BY:  
BRUCE DOREY

CHECKED BY:  
ELIUS F. NORTELUS, P.E.

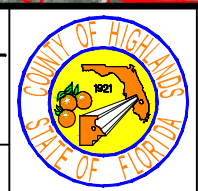
IN CHARGE:  
ELIUS F. NORTELUS, P.E.

DATE:  
5/9/2016

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ENGINEERING DEPARTMENT**  
505 S. COMMERCE AVENUE  
SEBRING, FLORIDA 33870

APPROVED BY: N/A  
FLORIDA REGISTRATION NO.: N/A

DATE:

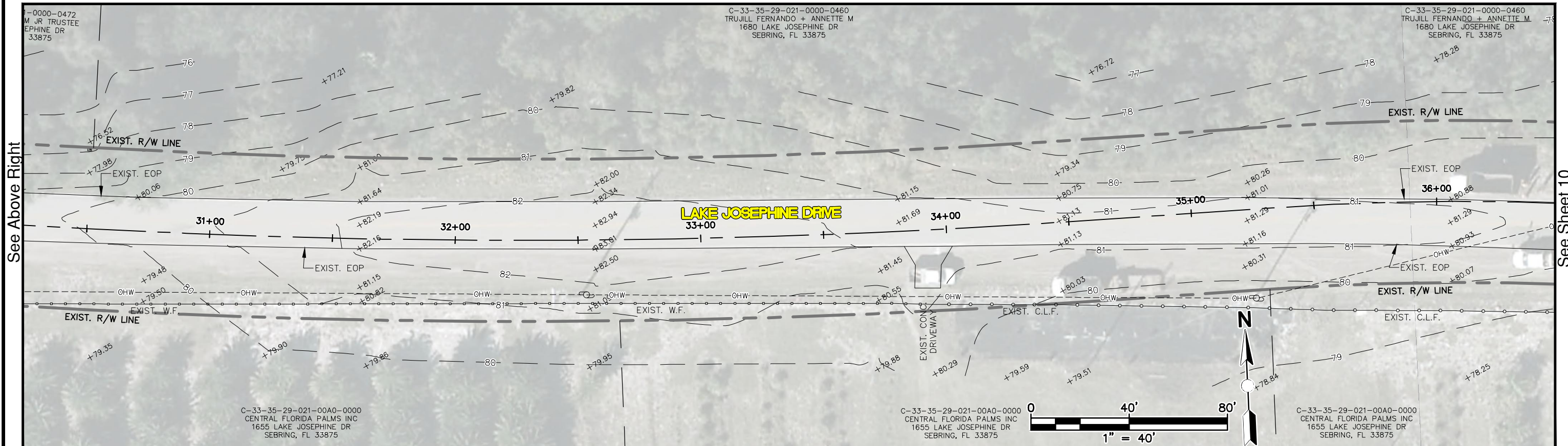
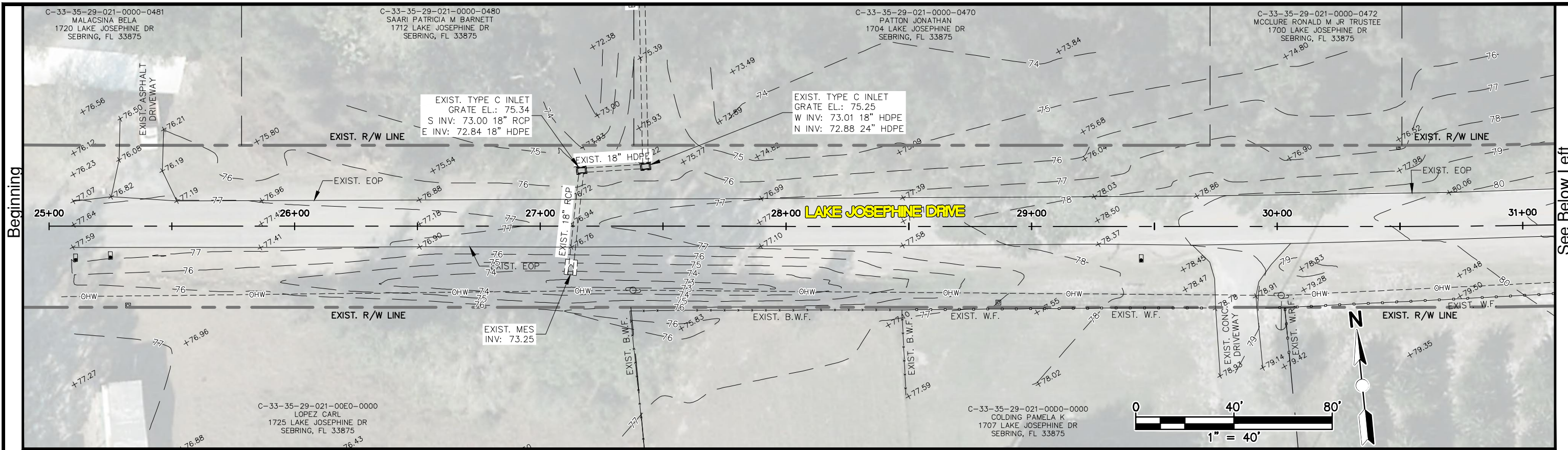


**LAKE JOSEPHINE DRIVE  
IMPROVEMENTS**  
OVERALL SITE PLAN

SCALE: HORIZ. 1"=500' VERT. N/A	
PROJECT NO. 13008	REV. 0
SHEET 8 OF 71	

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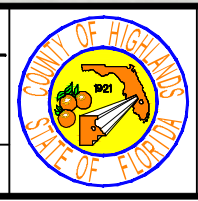


REVISIONS			STATUS	DESIGNED BY: KENYA ANDERSON
DATE	BY	DESCRIPTION		
			<b>FOR BID</b>	DRAWN BY: BRUCE DOREY
				CHECKED BY: ELIUS F. NORTELUS, P.E.
				IN CHARGE: ELIUS F. NORTELUS, P.E.
				DATE: 5/9/2016

**HIGHLANDS COUNTY**  
**ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870

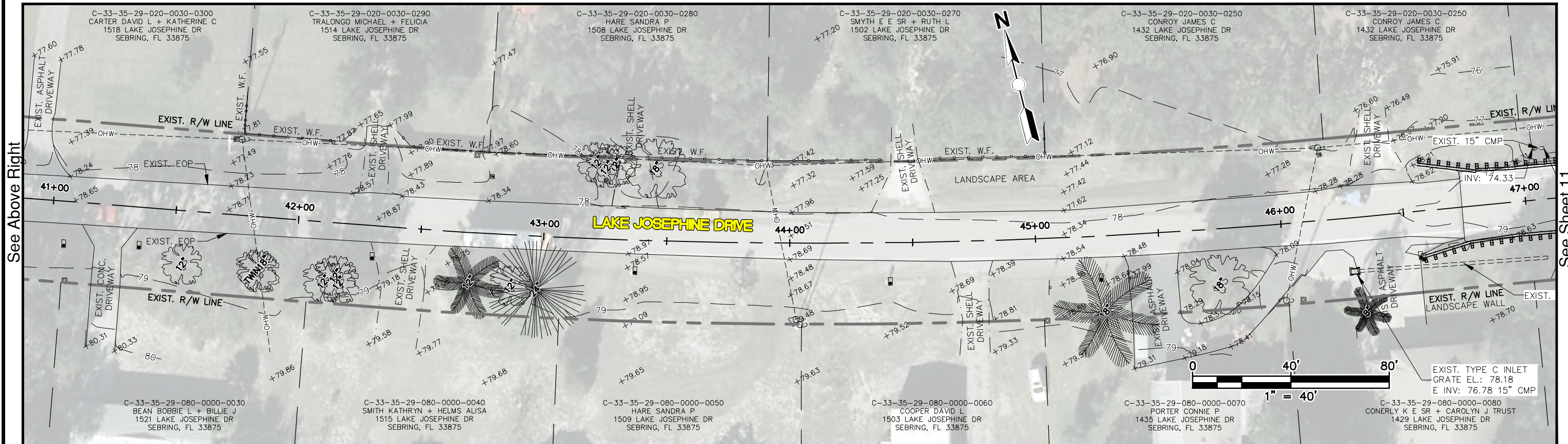
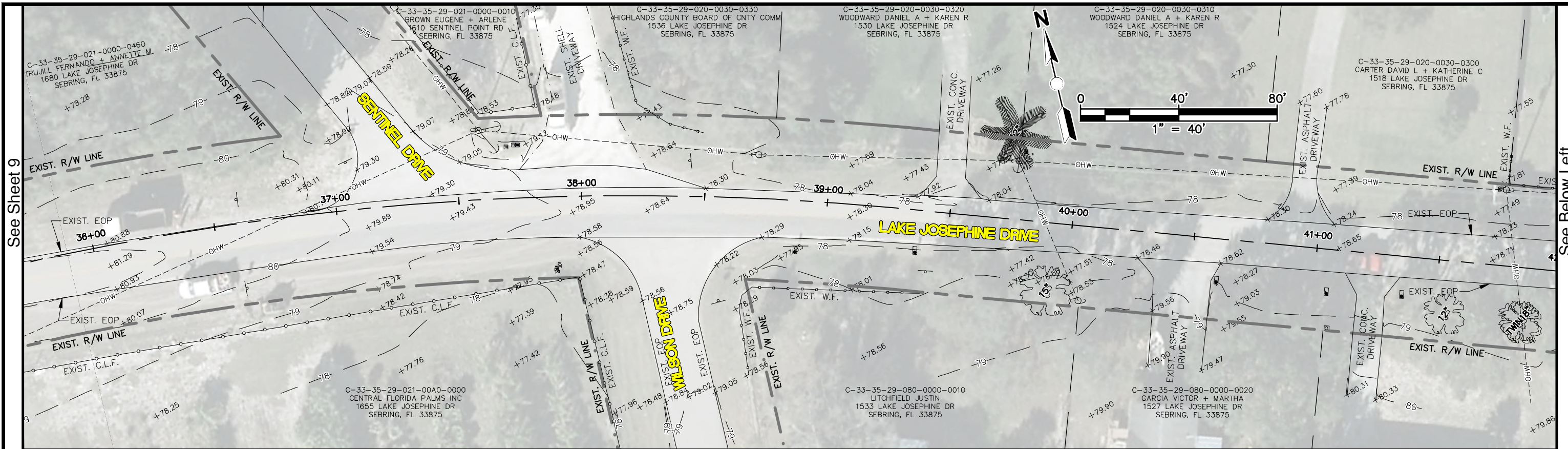
APPROVED BY: ELIUS F. NORTELUS, P.E.  
 FLORIDA REGISTRATION NO.: 70092

DATE: \_\_\_\_\_



**LAKE JOSEPHINE DRIVE**  
**IMPROVEMENTS**  
**EXISTING CONDITIONS**

SCALE: HORIZ. 1"=40' VERT. N/A	
PROJECT NO. 13008	REV. 0
SHEET 9 OF 71	

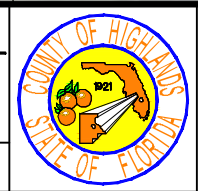


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				IN CHARGE: ELIUS F. NORTELUS, P.E.
				DATE: 5/9/2016

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ENGINEERING DEPARTMENT**  
505 S. COMMERCE AVENUE  
SEBRING, FLORIDA 33870

APPROVED BY: ELIUS F. NORTELUS, P.E.  
FLORIDA REGISTRATION NO.: 70092

DATE: \_\_\_\_\_

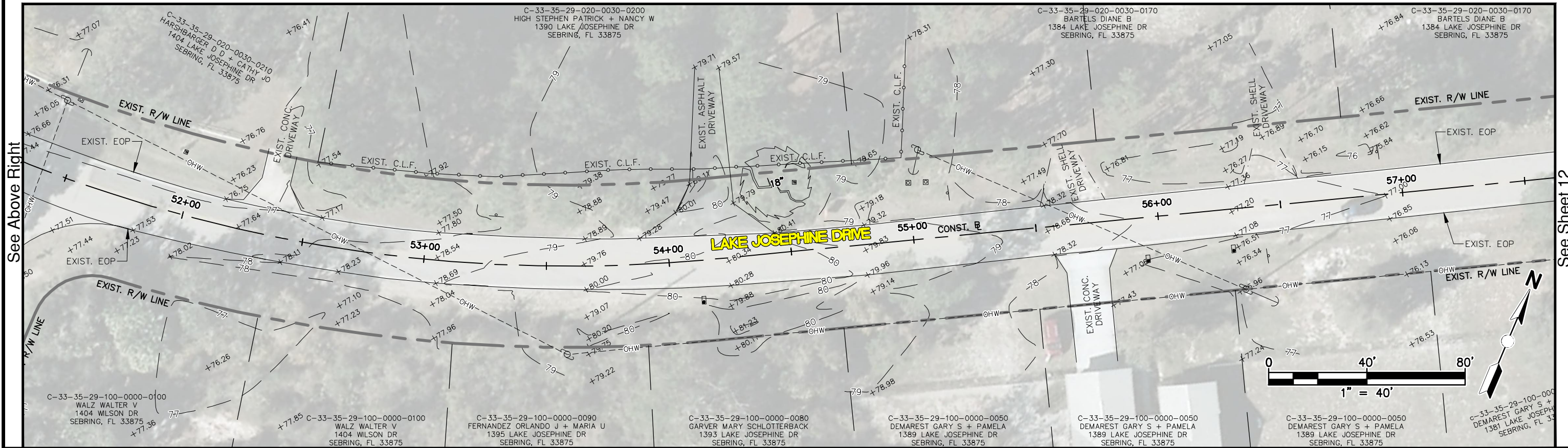
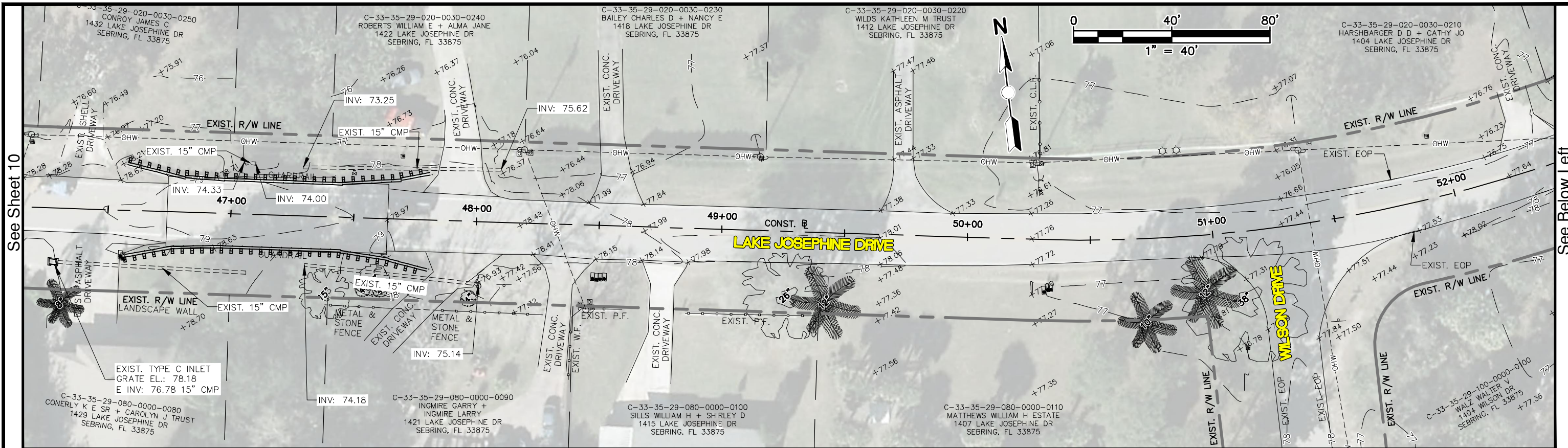


**LAKE JOSEPHINE DRIVE  
IMPROVEMENTS**  
EXISTING CONDITIONS

SCALE:  
HORIZ. 1"=40'  
VERT. N/A

PROJECT NO. 13008    REV. 0

SHEET 10 OF 71

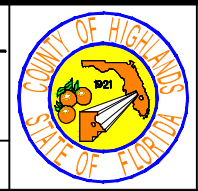


REVISIONS			STATUS
DATE	BY	DESCRIPTION	
			FOR BID

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HIGHLANDS COUNTY  
 ENGINEERING DEPARTMENT  
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 FLORIDA REGISTRATION NO.: 70092

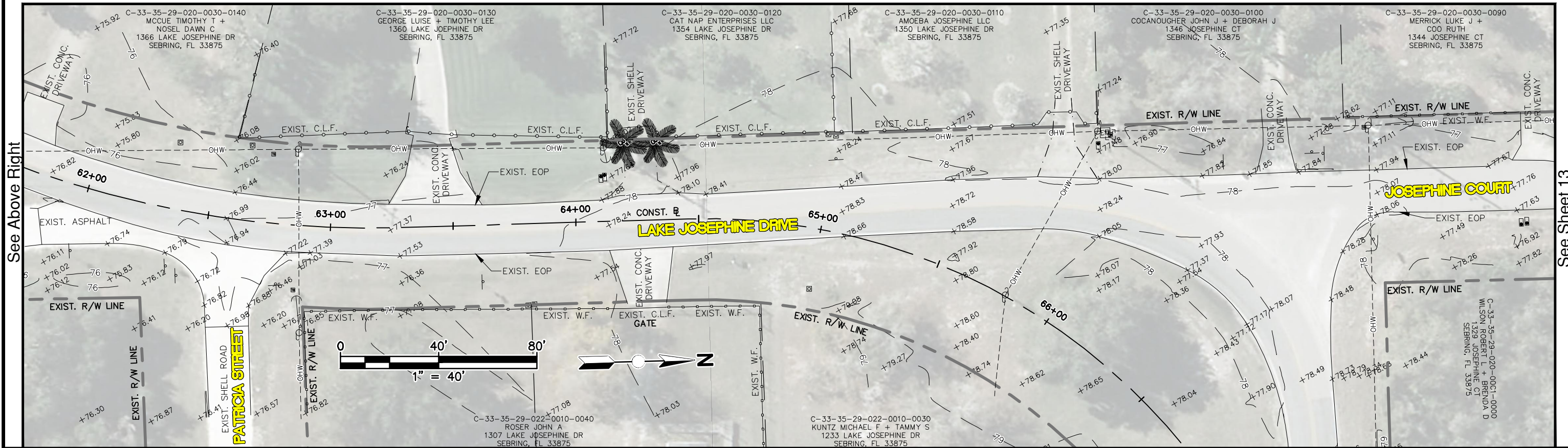
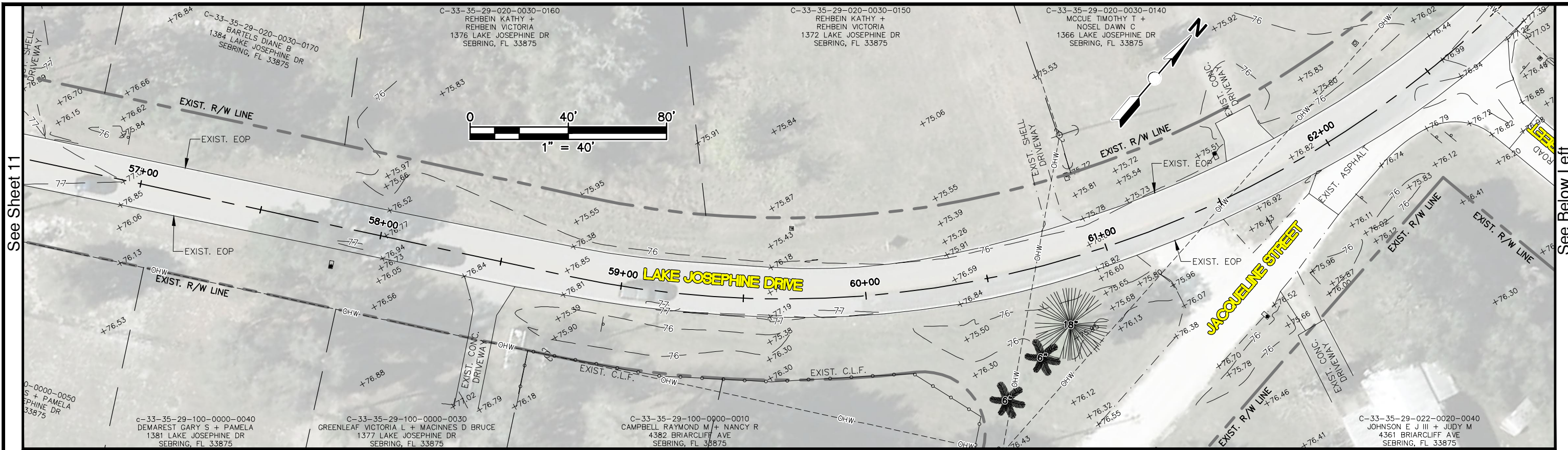


LAKE JOSEPHINE DRIVE  
 IMPROVEMENTS  
 EXISTING CONDITIONS

SCALE:  
 HORIZ. 1"=40'  
 VERT. N/A

PROJECT NO. 13008    REV. 0

SHEET 11 OF 71

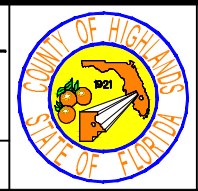


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DATE	BY	DESCRIPTION		
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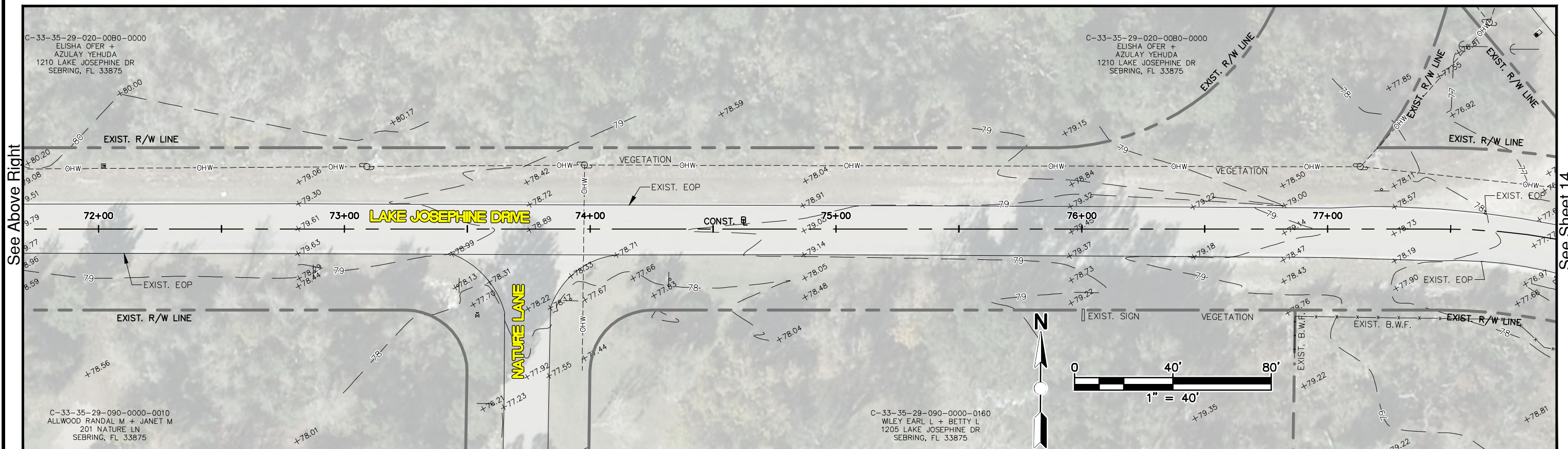
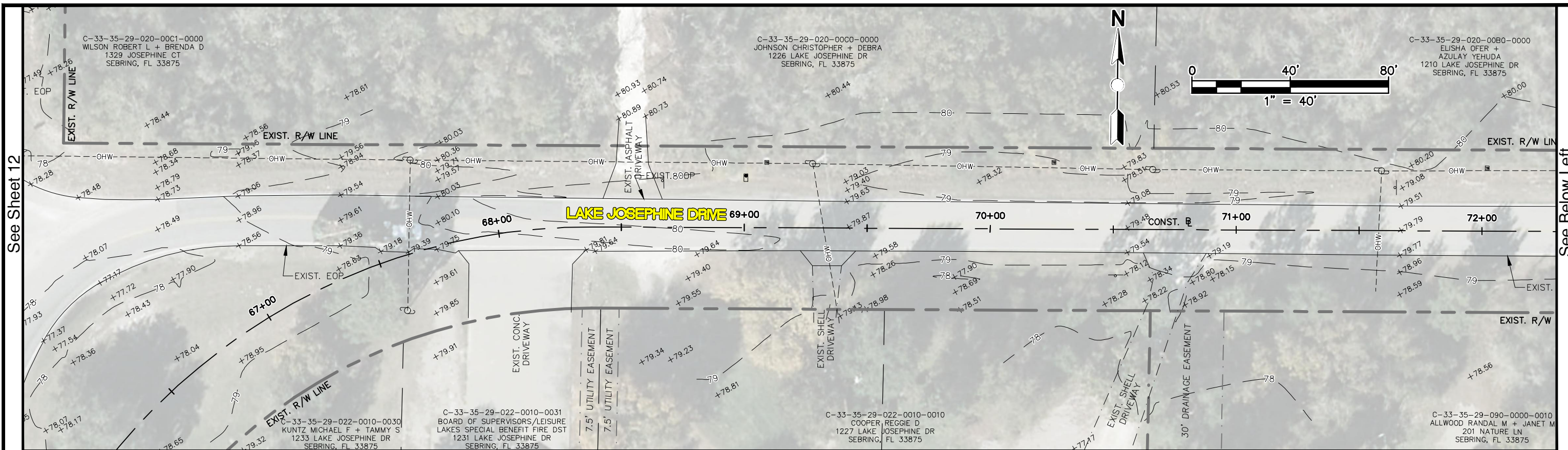
**HIGHLANDS COUNTY**  
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 SEBRING, FLORIDA 33870

DESIGNED BY: KENYA ANDERSON  
 DRAWN BY: BRUCE DOREY  
 CHECKED BY: ELIUS F. NORTELUS, P.E.  
 IN CHARGE: ELIUS F. NORTELUS, P.E.  
 DATE: 5/9/2016

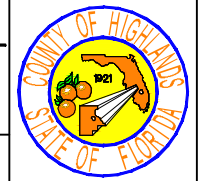
APPROVED BY: ELIUS F. NORTELUS, P.E.  
 FLORIDA REGISTRATION NO.: 70092



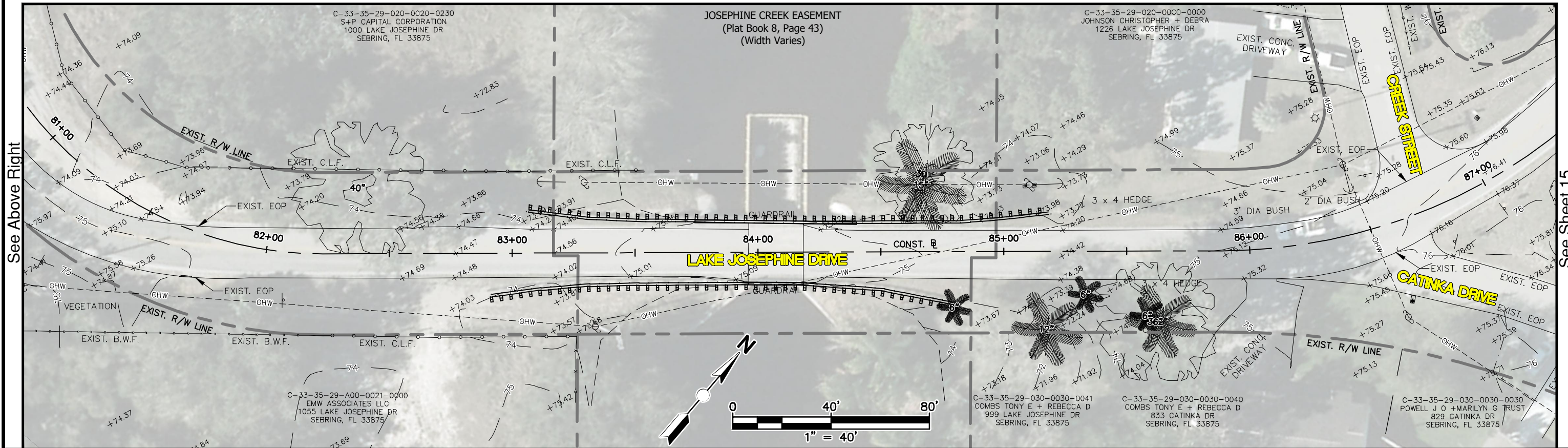
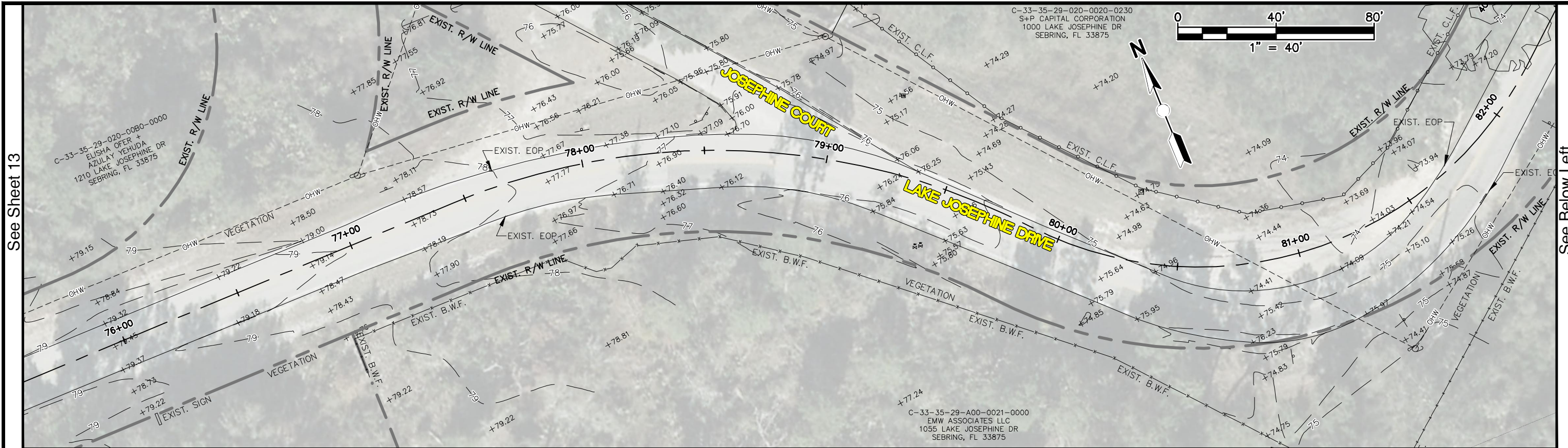
<b>LAKE JOSEPHINE DRIVE</b> <b>IMPROVEMENTS</b> <b>EXISTING CONDITIONS</b>		SCALE: HORIZ. 1"=40' VERT. N/A
PROJECT NO.	REV.	
13008	0	
SHEET 12 OF 71		



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DATE	BY	DESCRIPTION	FOR BID											

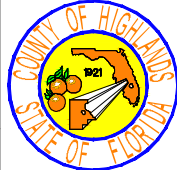


**LAKE JOSEPHINE DRIVE  
IMPROVEMENTS  
EXISTING CONDITIONS**



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DATE	BY											

**HIGHLANDS COUNTY**  
**ENGINEERING DEPARTMENT**  
505 S. COMMERCE AVENUE  
SEBRING, FLORIDA 33870



**LAKE JOSEPHINE DRIVE**  
**IMPROVEMENTS**  
**EXISTING CONDITIONS**

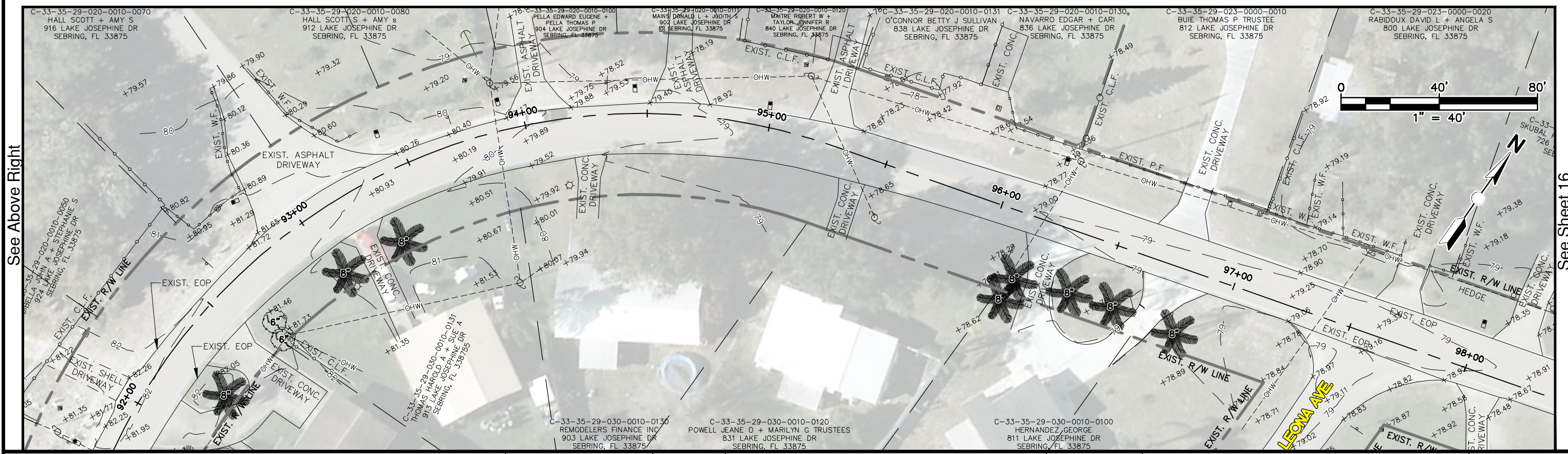
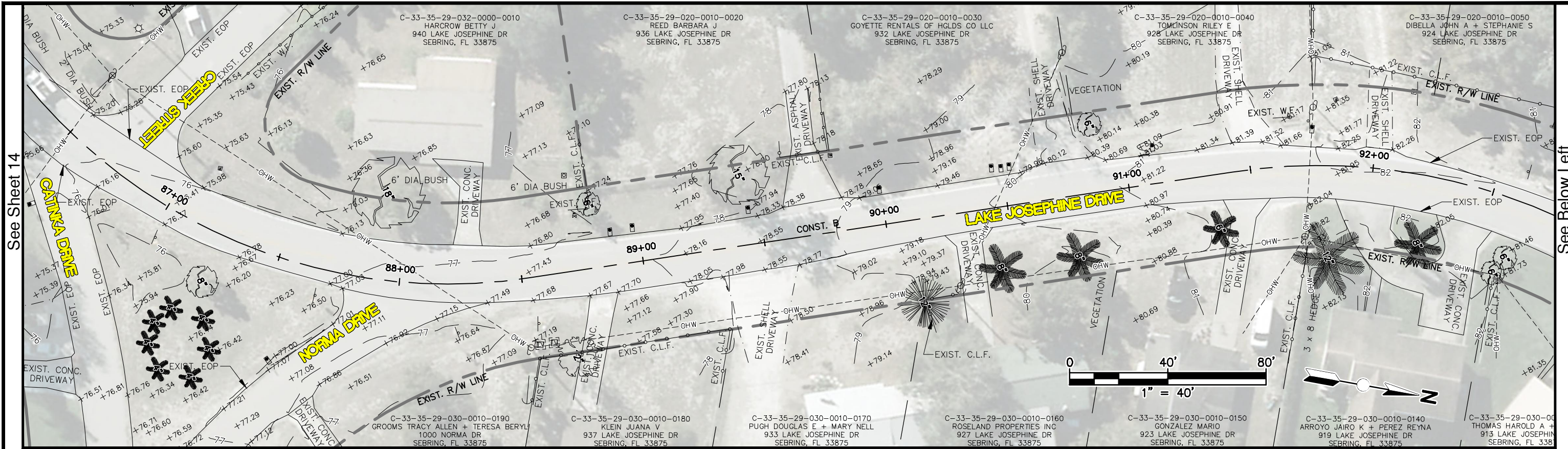
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See Sheet 13

See Below Left

See Above Right

See Sheet 15



REVISIONS		STATUS
DATE	BY	DESCRIPTION

**FOR BID**

DESIGNED BY:  
KENYA ANDERSON

DRAWN BY:  
BRUCE DOREY

CHECKED BY:  
ELIUS F. NORTELUS, P.E.

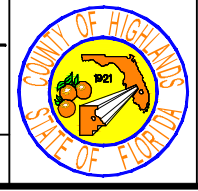
IN CHARGE:  
ELIUS F. NORTELUS, P.E.

DATE:  
5/9/2016

**HIGHLANDS COUNTY  
ENGINEERING DEPARTMENT**  
505 S. COMMERCE AVENUE  
SEBRING, FLORIDA 33870

APPROVED BY: ELIUS F. NORTELUS, P.E.  
FLORIDA REGISTRATION NO.: 70092

DATE:

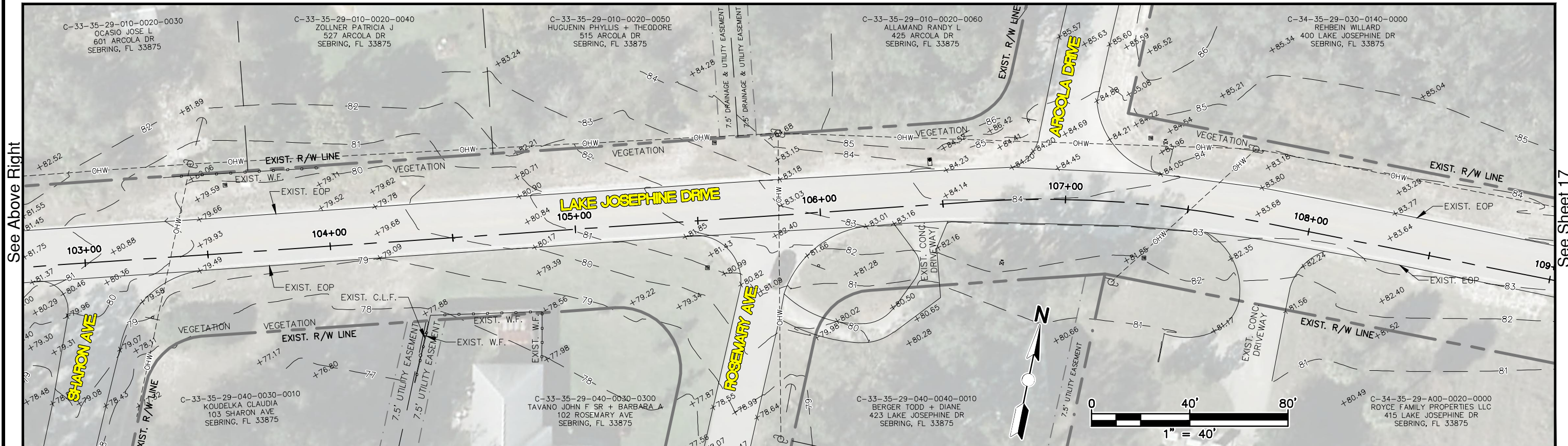
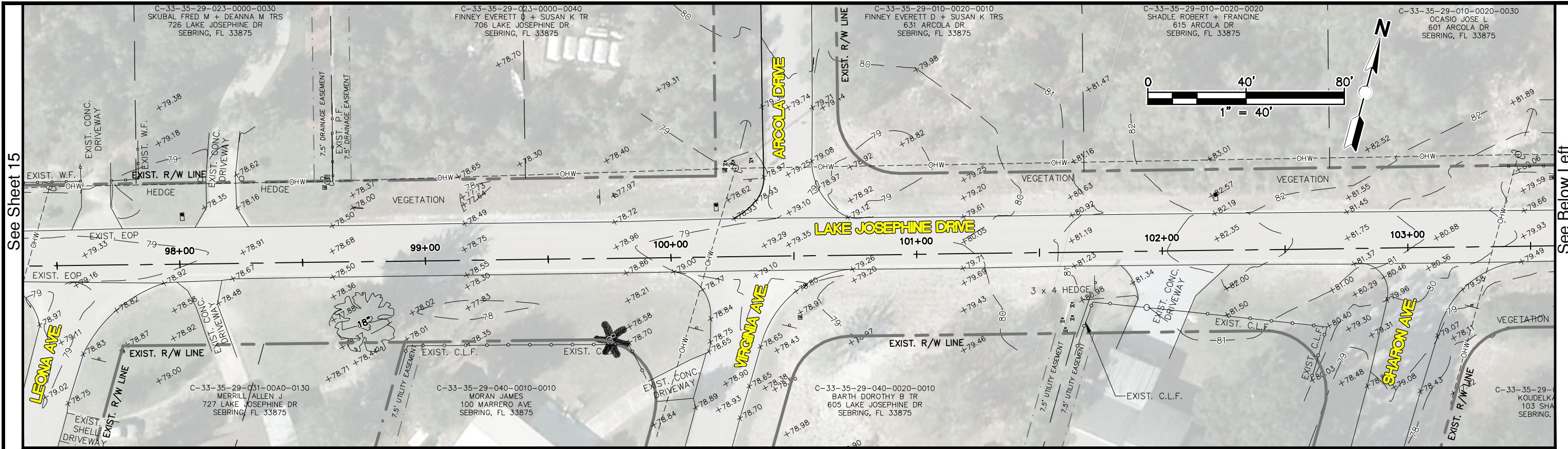


**LAKE JOSEPHINE DRIVE  
IMPROVEMENTS**  
EXISTING CONDITIONS

SCALE:  
HORIZ. 1"=40'  
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PROJECT NO. 13008    REV. 0

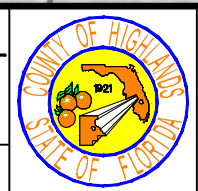
SHEET 15 OF 71



REVISIONS		
DATE	BY	DESCRIPTION

STATUS
FOR BID

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**ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870



**LAKE JOSEPHINE DRIVE**  
**IMPROVEMENTS**  
**EXISTING CONDITIONS**

SCALE:	
HORIZ. 1"=40'	VERT. N/A
PROJECT NO. 13008	REV. 0
SHEET 16 OF 71	

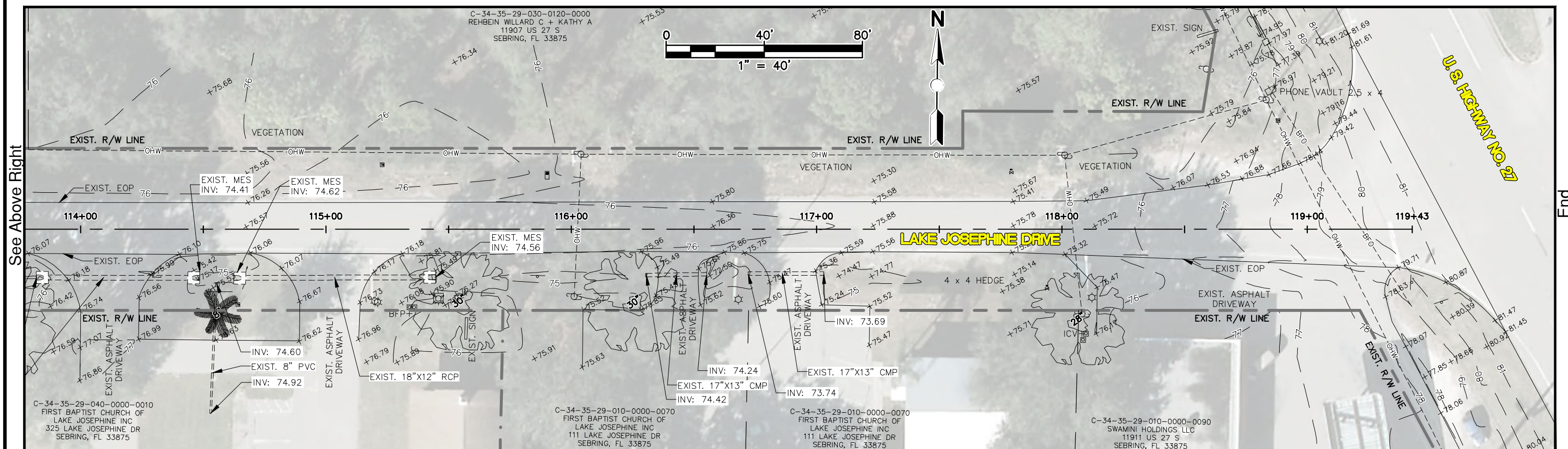
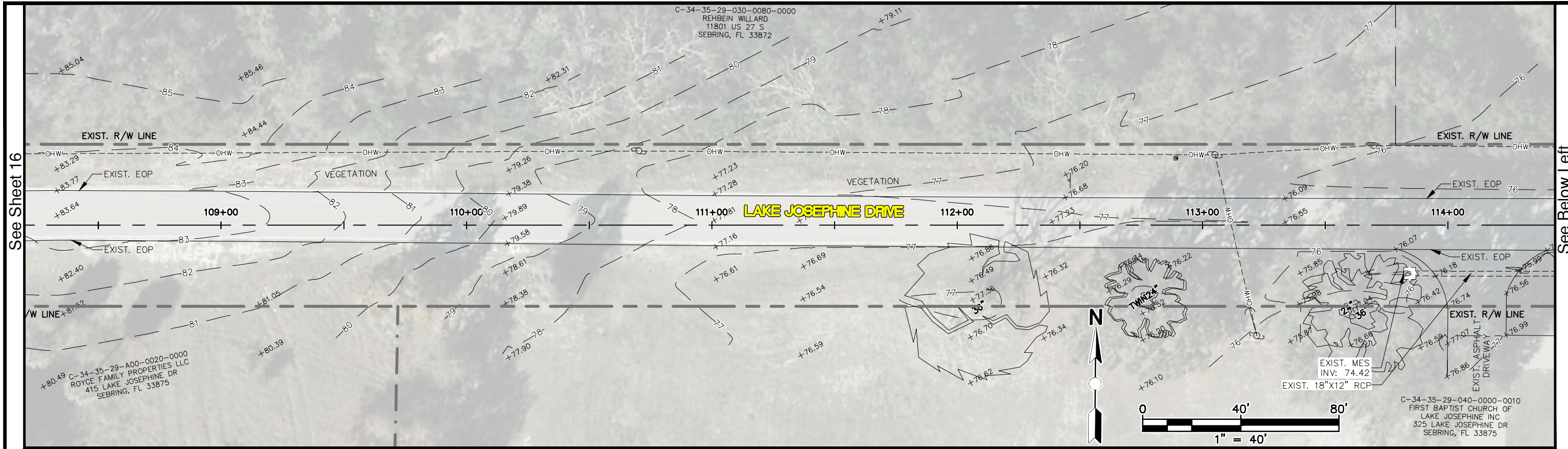
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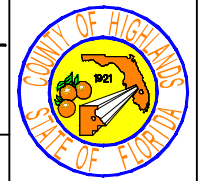
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See Sheet 17

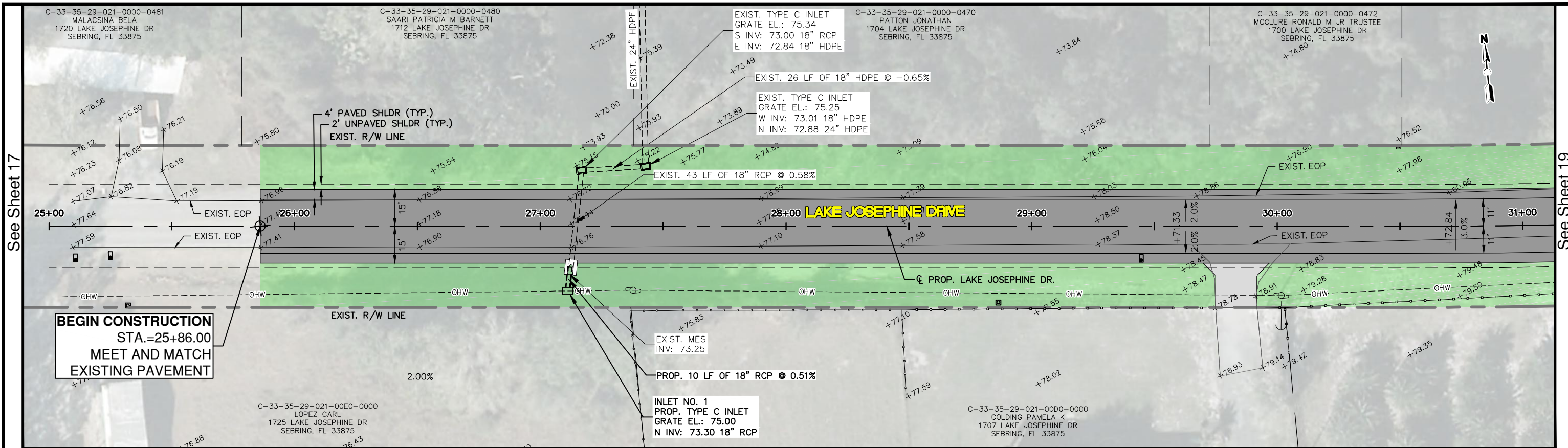




REVISIONS		STATUS	DESIGNED BY: KENYA ANDERSON	DRAWN BY: BRUCE DOREY	CHECKED BY: ELIUS F. NORTELUS, P.E.	IN CHARGE: ELIUS F. NORTELUS, P.E.	DATE: 5/9/2016	APPROVED BY: ELIUS F. NORTELUS, P.E. FLORIDA REGISTRATION NO.: 70092	DATE:	SCALE: HORIZ. 1"=40' VERT. N/A	PROJECT NO. 13008	REV. 0
DATE	BY											

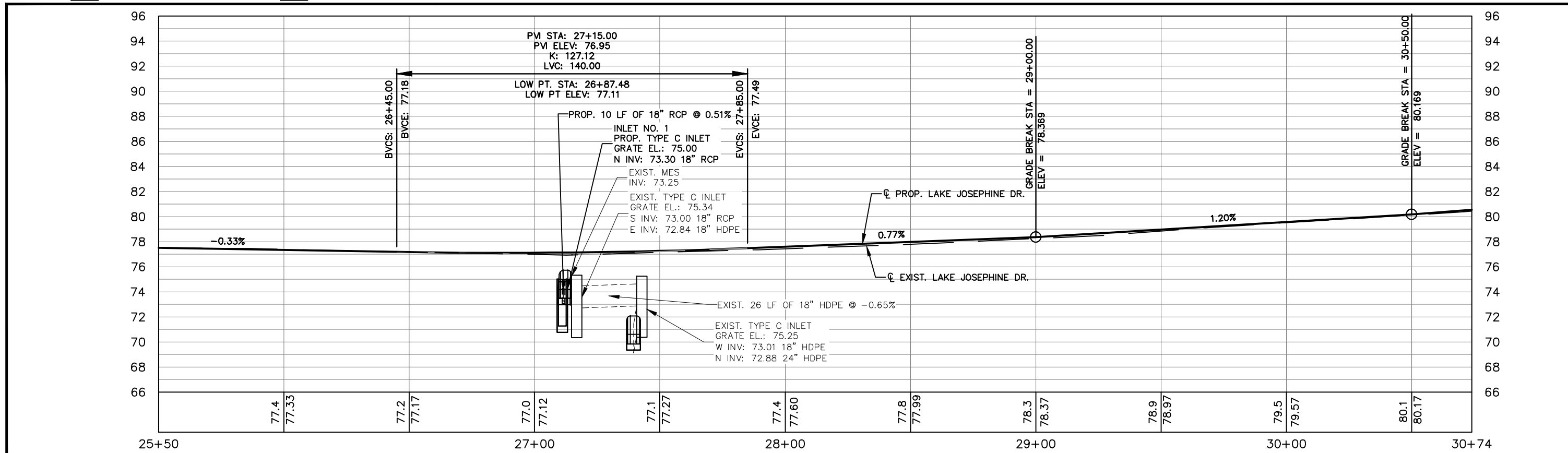


**LAKE JOSEPHINE DRIVE IMPROVEMENTS**  
**EXISTING CONDITIONS**



**BEGIN CONSTRUCTION**  
 STA.=25+86.00  
 MEET AND MATCH  
 EXISTING PAVEMENT

PROP. ASPHALT PAVEMENT  
 PROP. CONCRETE DRIVEWAY



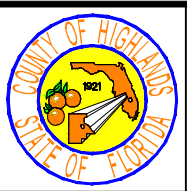
REVISIONS		STATUS
DATE	DESCRIPTION	
		<b>FOR BID</b>

**HIGHLANDS COUNTY**  
**ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870

DESIGNED BY: ELIUS F. NORTELUS, P.E.  
 DRAWN BY: DOUG NIETUBICZ  
 CHECKED BY: KEITH BAKER, E.I.  
 IN CHARGE: ELIUS F. NORTELUS, P.E.  
 DATE: 5/9/2016

APPROVED BY: ELIUS F. NORTELUS, P.E.  
 FLORIDA REGISTRATION NO.: 70092

DATE: \_\_\_\_\_

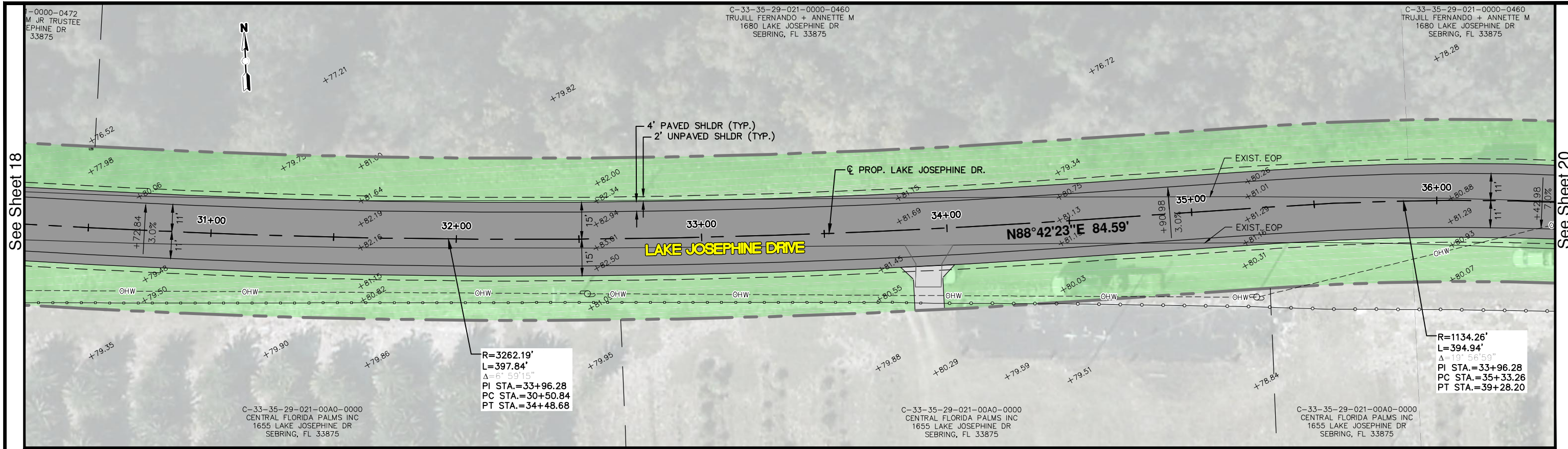


**LAKE JOSEPHINE DRIVE**  
**IMPROVEMENTS**  
**PLAN & PROFILE**

SCALE:  
 HORIZ. 1"=40'  
 VERT. 1"=8'

PROJECT NO. 13008    REV. 0

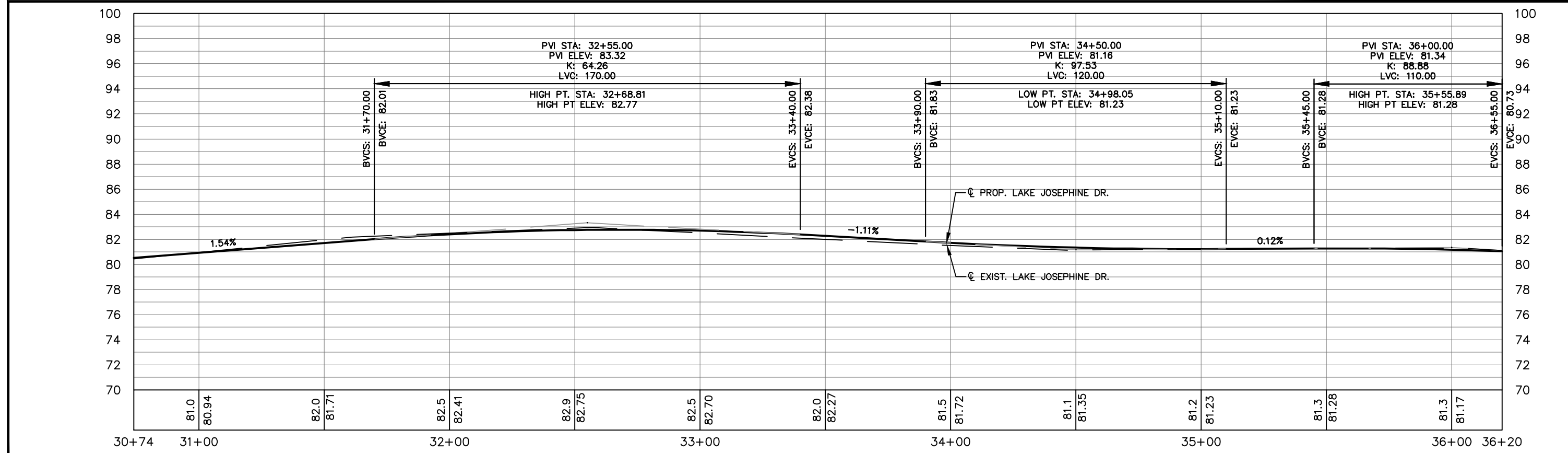
SHEET 18 OF 71



See Sheet 18

See Sheet 20

PROP. ASPHALT PAVEMENT  
 PROP. CONCRETE DRIVEWAY



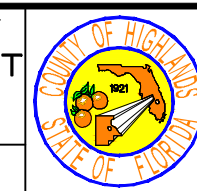
REVISIONS		
DATE	BY	DESCRIPTION

STATUS  
**FOR BID**

DESIGNED BY: ELIUS F. NORTELUS, P.E.  
 DRAWN BY: DOUG NIETUBICZ  
 CHECKED BY: KEITH BAKER, E.I.  
 IN CHARGE: ELIUS F. NORTELUS, P.E.  
 DATE: 5/9/2016

**HIGHLANDS COUNTY**  
**ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870

APPROVED BY: ELIUS F. NORTELUS, P.E.  
 FLORIDA REGISTRATION NO.: 70092



LAKE JOSEPHINE DRIVE  
 IMPROVEMENTS  
 PLAN & PROFILE

SCALE:  
 HORIZ. 1"=40'  
 VERT. 1"=8'

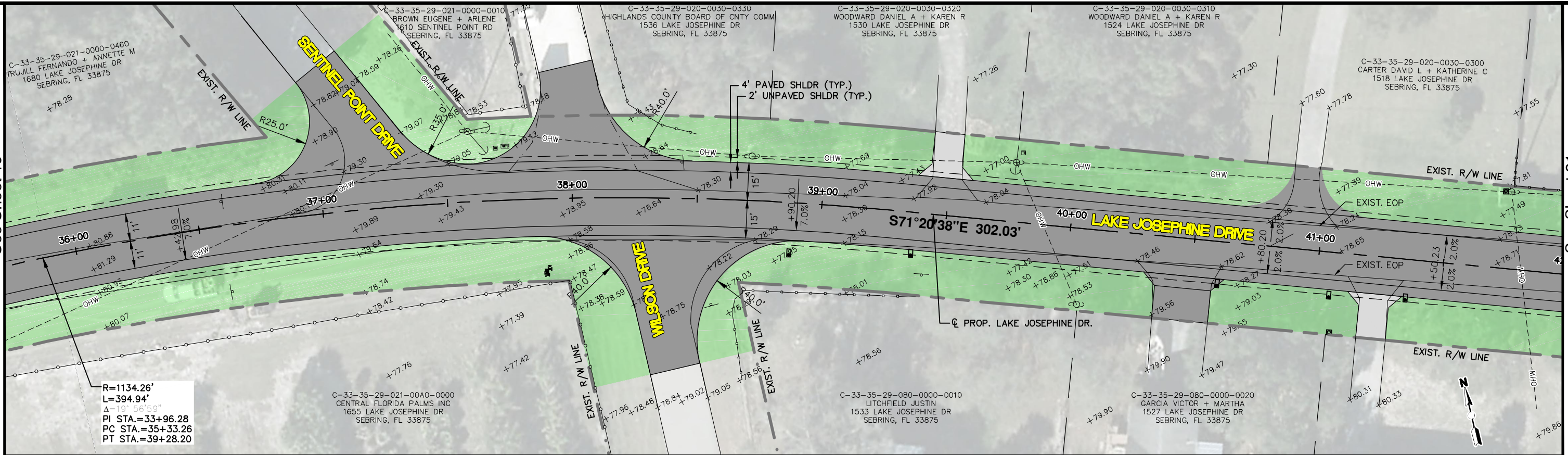
PROJECT NO. 13008  
 REV. 0

SHEET 19 OF 71

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See Sheet 19

See Sheet 21



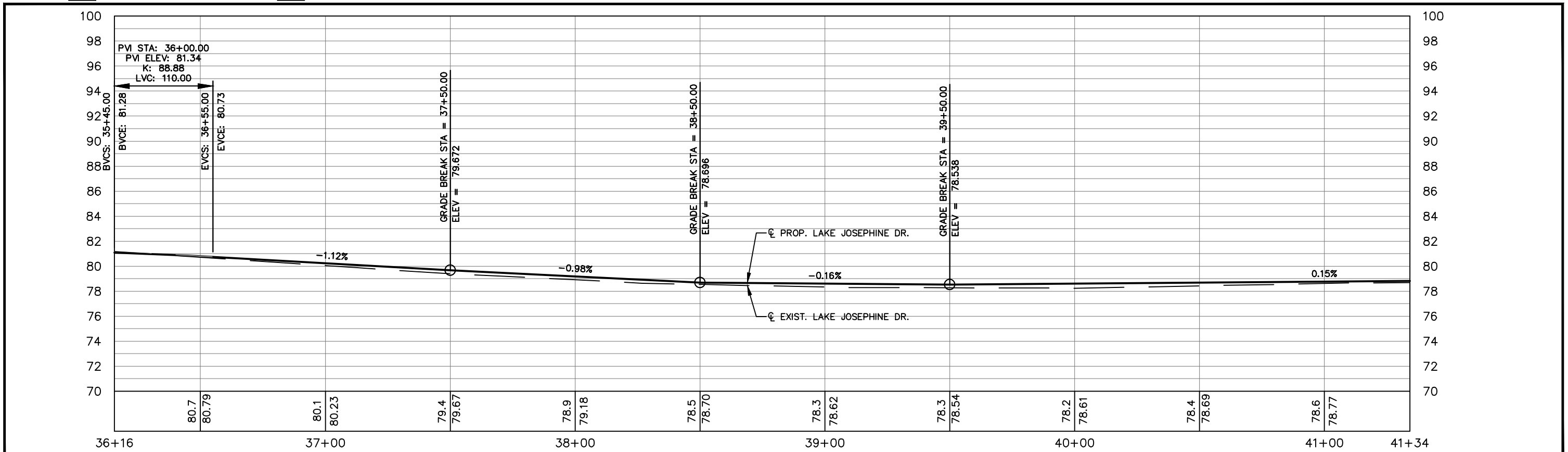
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L=394.94'  
A=19° 56' 59"  
PI STA.=33+96.28  
PC STA.=35+33.26  
PT STA.=39+28.20

C-33-35-29-021-0040-0000  
CENTRAL FLORIDA PALMS INC  
1655 LAKE JOSEPHINE DR  
SEBRING, FL 33875

C-33-35-29-080-0000-0010  
LITCHFIELD JUSTIN  
1533 LAKE JOSEPHINE DR  
SEBRING, FL 33875

C-33-35-29-080-0000-0020  
GARCIA VICTOR + MARTHA  
1527 LAKE JOSEPHINE DR  
SEBRING, FL 33875

PROP. ASPHALT PAVEMENT  
PROP. CONCRETE DRIVEWAY



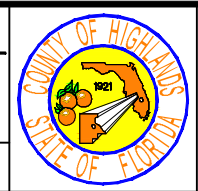
REVISIONS			STATUS
DATE	BY	DESCRIPTION	
			FOR BID

**HIGHLANDS COUNTY  
ENGINEERING DEPARTMENT**  
505 S. COMMERCE AVENUE  
SEBRING, FLORIDA 33870

DESIGNED BY: ELIUS F. NORTELUS, P.E.  
DRAWN BY: DOUG NIETUBICZ  
CHECKED BY: KEITH BAKER, E.I.  
IN CHARGE: ELIUS F. NORTELUS, P.E.  
DATE: 5/9/2016

APPROVED BY: ELIUS F. NORTELUS, P.E.  
FLORIDA REGISTRATION NO.: 70092

DATE:

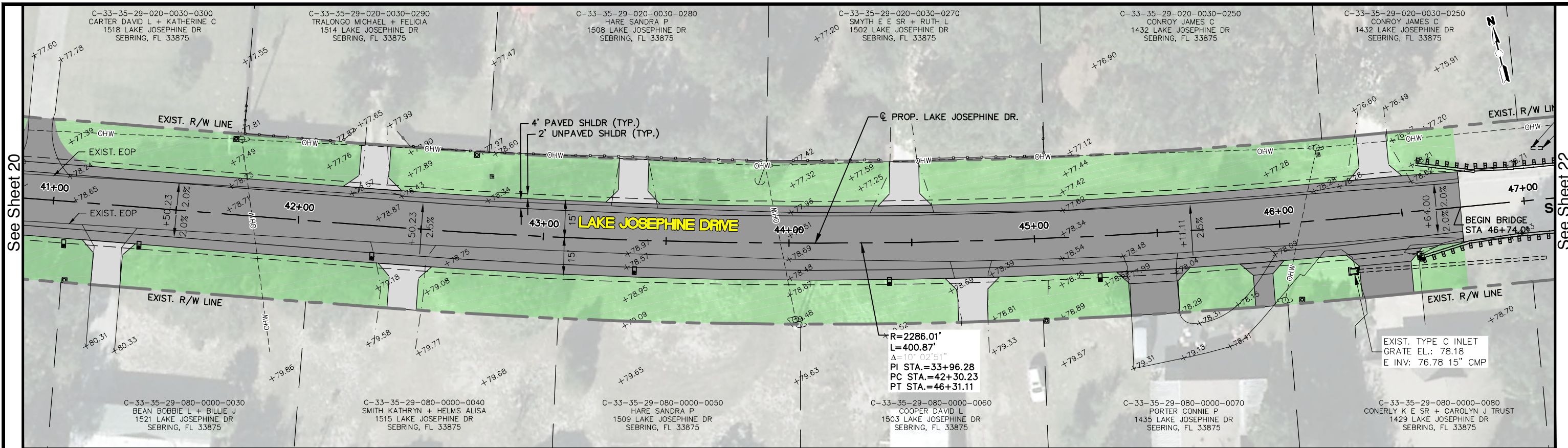


**LAKE JOSEPHINE DRIVE  
IMPROVEMENTS  
PLAN & PROFILE**

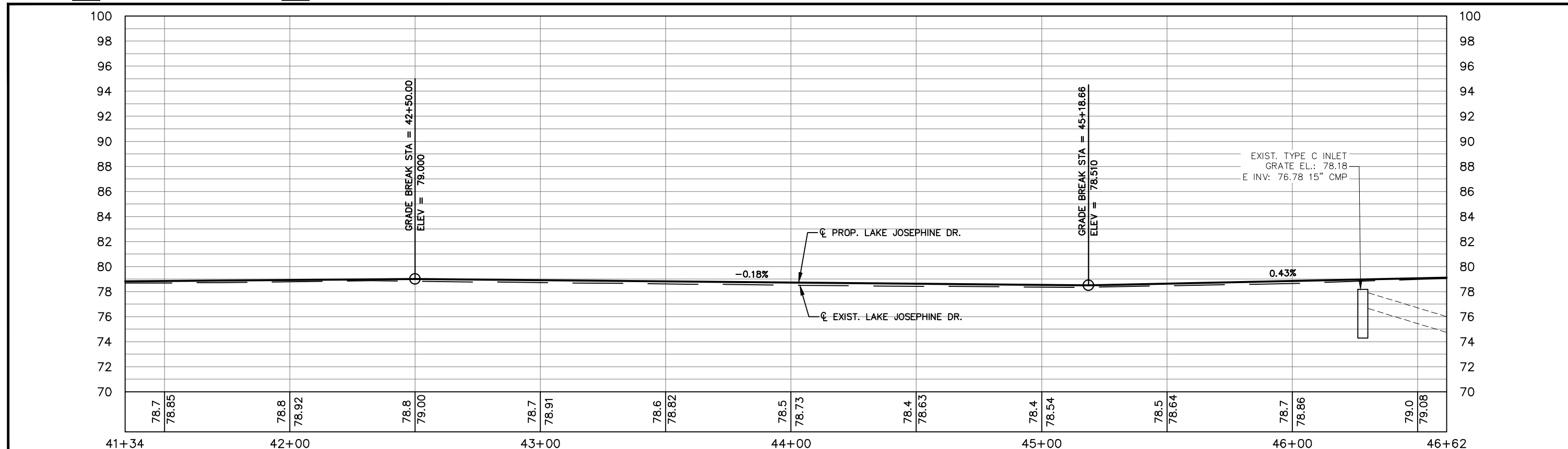
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HORIZ. 1"=40'  
VERT. 1"=8'

PROJECT NO. 13008    REV. 0

SHEET 20 OF 71



[Dark Grey Box] PROP. ASPHALT PAVEMENT  
 [Light Grey Box] PROP. CONCRETE DRIVEWAY



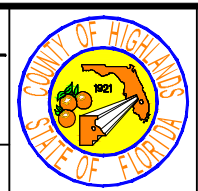
REVISIONS		STATUS
DATE	DESCRIPTION	
		<b>FOR BID</b>

**HIGHLANDS COUNTY**  
**ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870

DESIGNED BY: ELIUS F. NORTELUS, P.E.  
 DRAWN BY: DOUG NIETUBICZ  
 CHECKED BY: KEITH BAKER, E.I.  
 IN CHARGE: ELIUS F. NORTELUS, P.E.  
 DATE: 5/9/2016

APPROVED BY: ELIUS F. NORTELUS, P.E.  
 FLORIDA REGISTRATION NO.: 70092

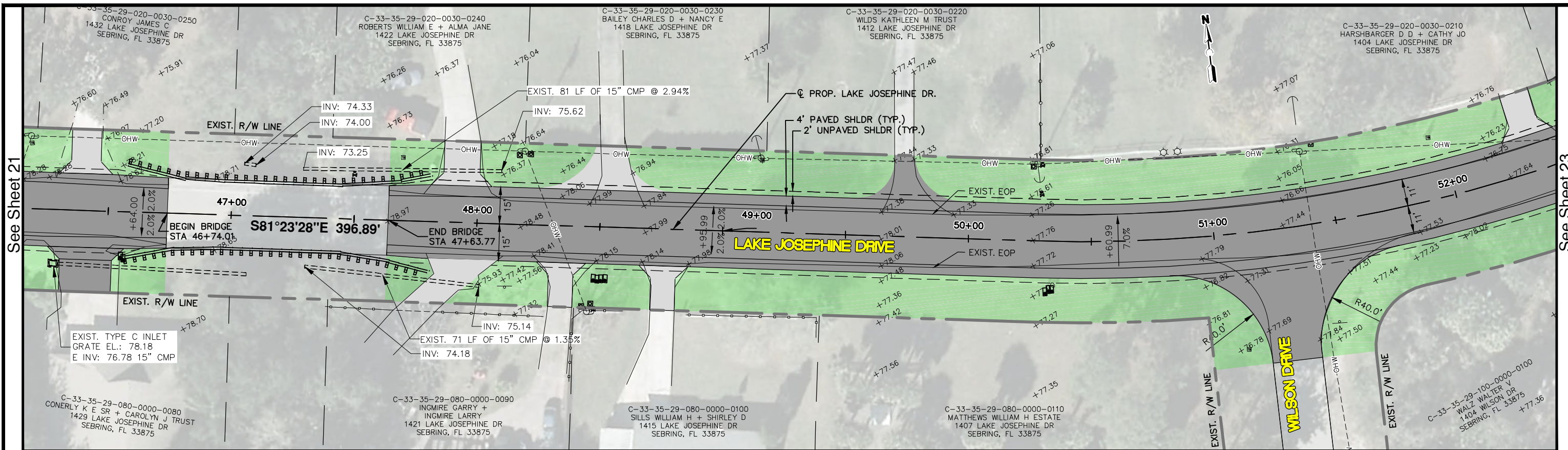
DATE: \_\_\_\_\_



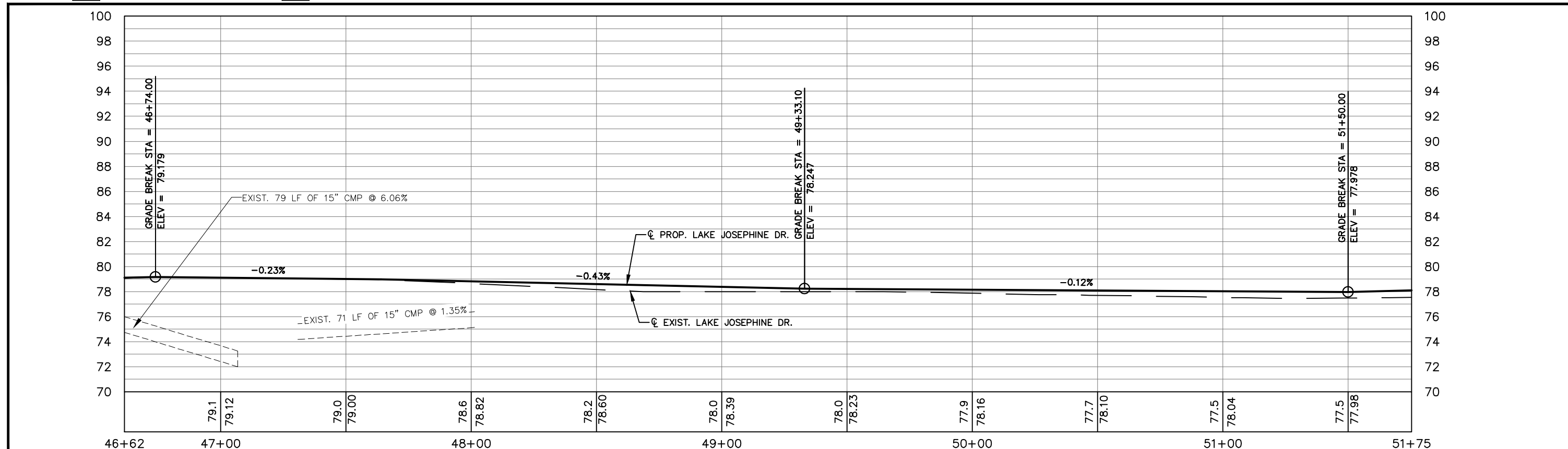
**LAKE JOSEPHINE DRIVE**  
**IMPROVEMENTS**  
**PLAN & PROFILE**

SCALE:  
 HORIZ. 1"=40'  
 VERT. 1"=8'  
 PROJECT NO. 13008  
 REV. 0  
 SHEET 21 OF 71

G:\PROJECTS\2013\13008 Lake Josephine Drive Resurfacing\Drawings\Full Depth Reconstruction Option\Plan & Profile West Sheets - 72+62.25.dwg, Plan & Profile West Sheets - 41+34.22, Baker, Keith J. Acad 1-7 Black.ctb



PROP. ASPHALT PAVEMENT  
 PROP. CONCRETE DRIVEWAYS



REVISIONS		STATUS	DESIGNED BY: ELIUS F. NORTELUS, P.E.	DRAWN BY: DOUG NIETUBICZ	CHECKED BY: KEITH BAKER, E.I.	IN CHARGE: ELIUS F. NORTELUS, P.E.	DATE: 5/9/2016	APPROVED BY: ELIUS F. NORTELUS, P.E.	DATE:	FLORIDA REGISTRATION NO.: 70092
DATE	BY									

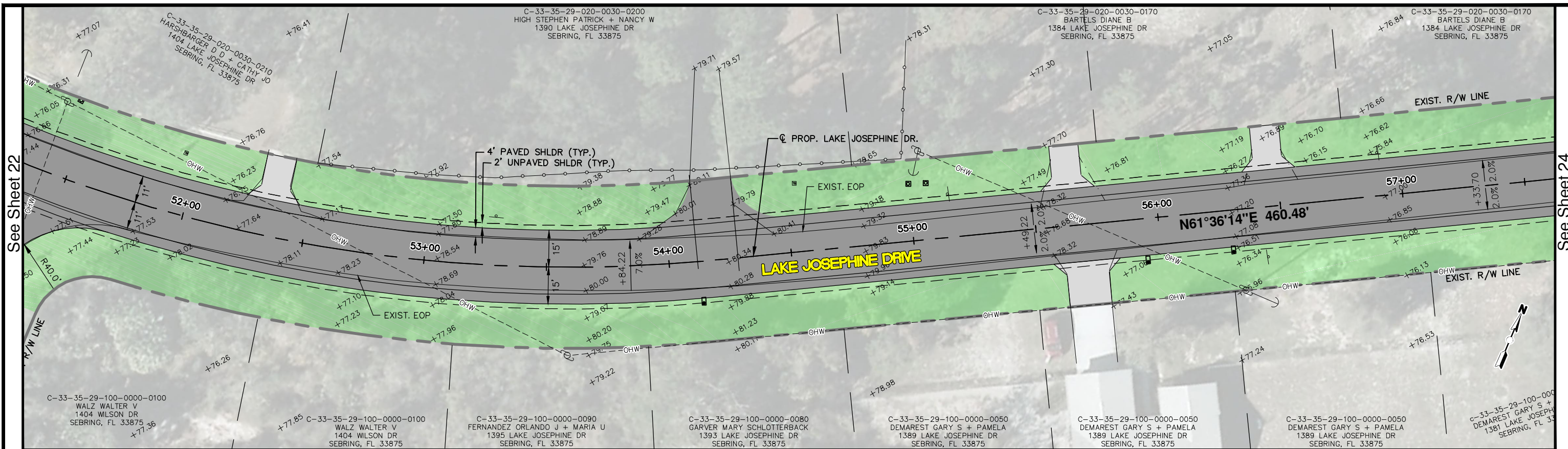
**FOR BID**

**HIGHLANDS COUNTY ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870

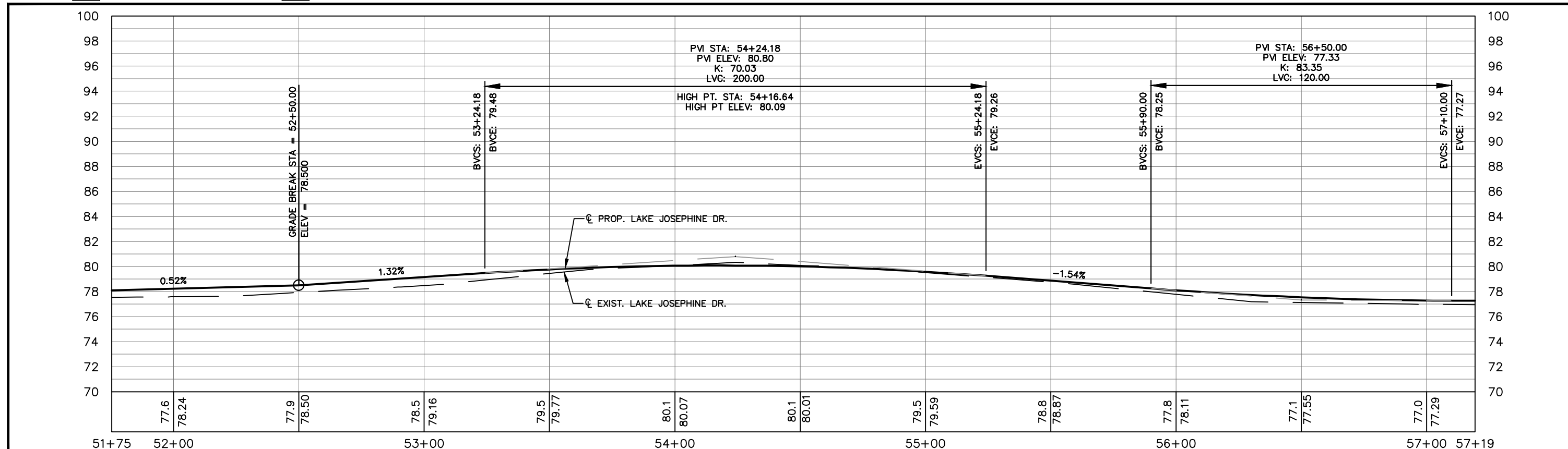
**LAKE JOSEPHINE DRIVE IMPROVEMENTS**  
**PLAN & PROFILE**

SCALE: HORIZ. 1"=40' VERT. 1"=8'	
PROJECT NO. 13008	REV. 0
SHEET 22 OF 71	

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PROP. ASPHALT PAVEMENT  
 PROP. CONCRETE DRIVEWAY



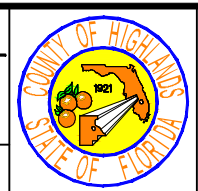
REVISIONS		
DATE	BY	DESCRIPTION

STATUS  
**FOR BID**

DESIGNED BY: ELIUS F. NORTELUS, P.E.  
 DRAWN BY: DOUG NIETUBICZ  
 CHECKED BY: KEITH BAKER, E.I.  
 IN CHARGE: ELIUS F. NORTELUS, P.E.  
 DATE: 5/9/2016

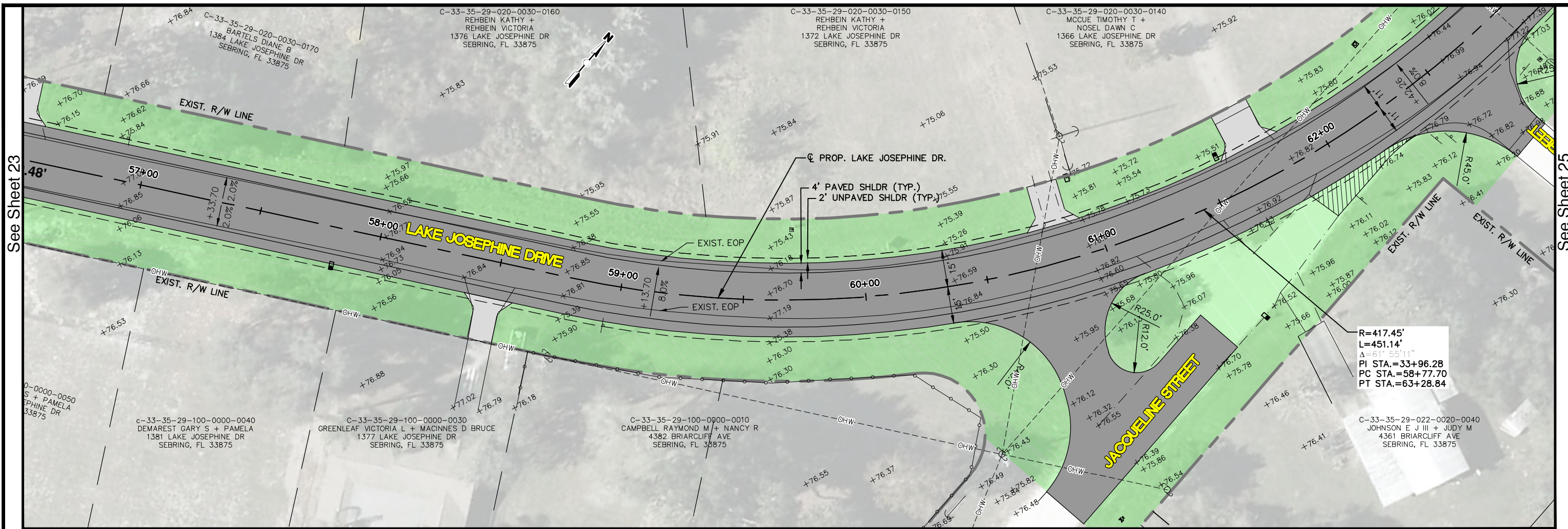
**HIGHLANDS COUNTY**  
**ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870

APPROVED BY: ELIUS F. NORTELUS, P.E.  
 FLORIDA REGISTRATION NO.: 70092



**LAKE JOSEPHINE DRIVE**  
**IMPROVEMENTS**  
**PLAN & PROFILE**

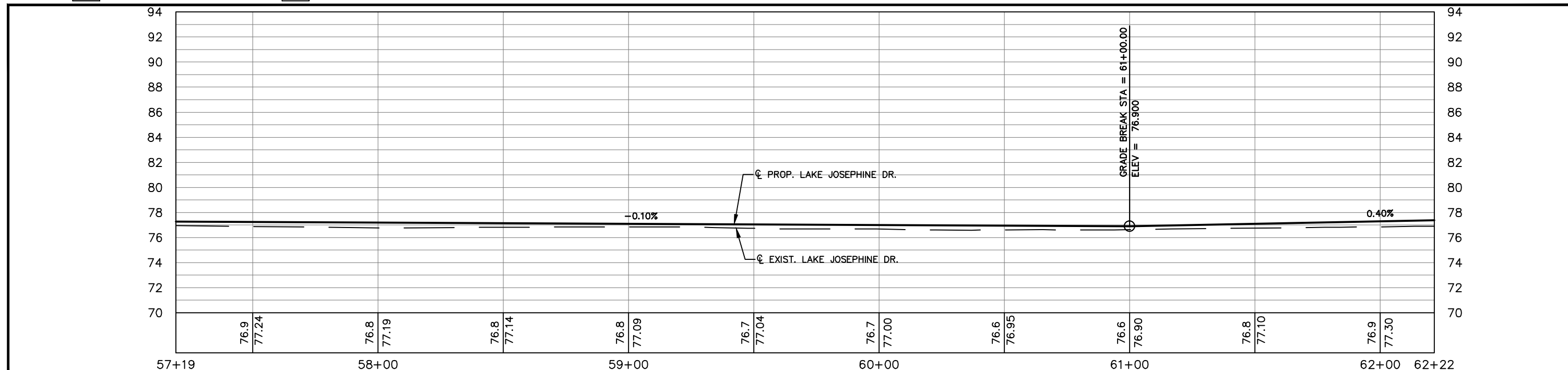
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 VERT. 1"=8'  
 PROJECT NO. 13008  
 REV. 0  
 SHEET 23 OF 71



See Sheet 23

See Sheet 25

PROP. ASPHALT PAVEMENT
  PROP. CONCRETE DRIVEWAY

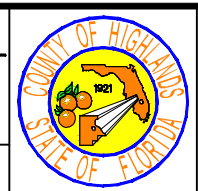


REVISIONS		STATUS
DATE	DESCRIPTION	
		<b>FOR BID</b>

DESIGNED BY:  
ELIUS F. NORTELUS, P.E.  
 DRAWN BY:  
DOUG NIETUBICZ  
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KEITH BAKER, E.I.  
 IN CHARGE:  
ELIUS F. NORTELUS, P.E.  
 DATE:  
5/9/2016

**HIGHLANDS COUNTY**  
**ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870

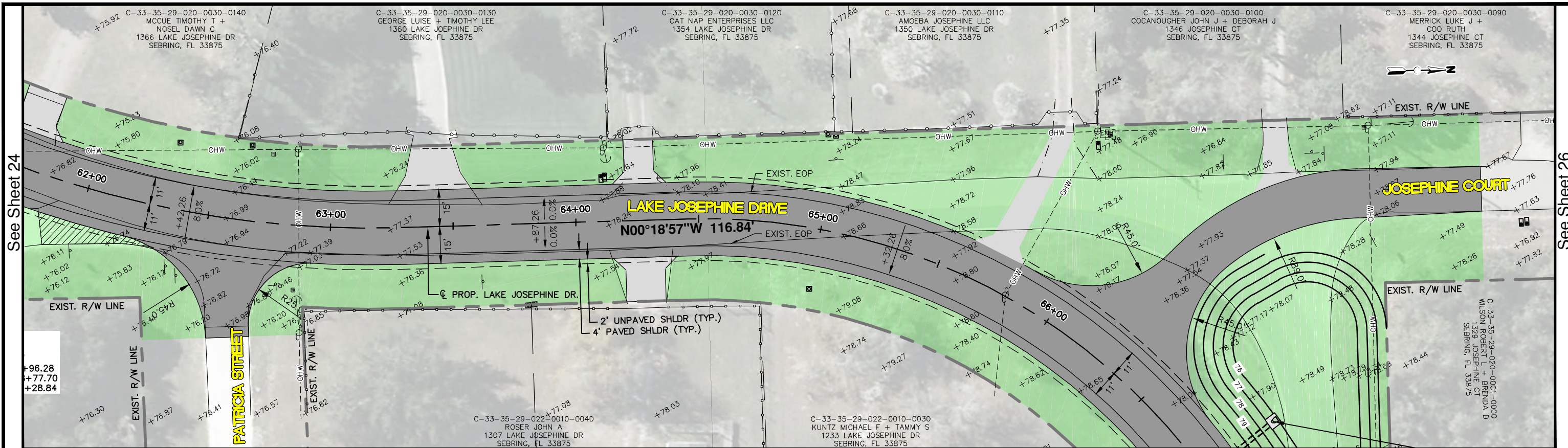
APPROVED BY: ELIUS F. NORTELUS, P.E.  
 FLORIDA REGISTRATION NO.: 70092



**LAKE JOSEPHINE DRIVE**  
**IMPROVEMENTS**  
**PLAN & PROFILE**

SCALE: HORIZ. 1"=40' VERT. 1"=8'	
PROJECT NO. 13008	REV. 0
SHEET 24 OF 71	

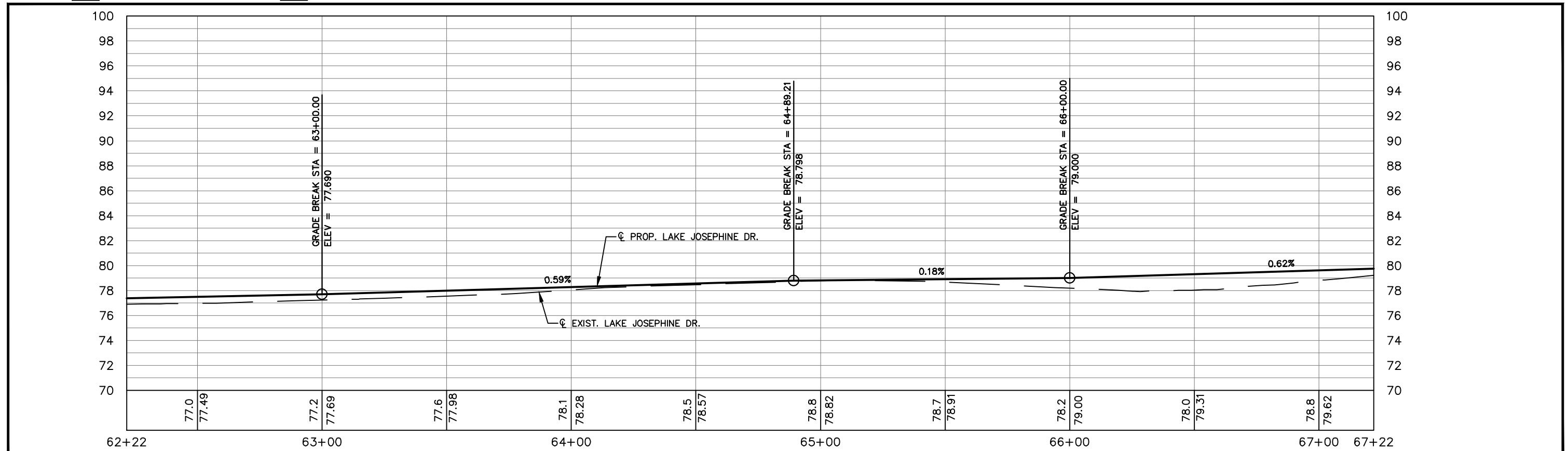




See Sheet 24

See Sheet 26

PROP. ASPHALT PAVEMENT  
 PROP. CONCRETE DRIVEWAY

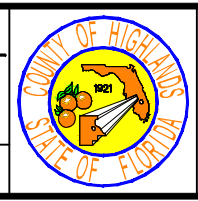


REVISIONS		STATUS
DATE	DESCRIPTION	
		<b>FOR BID</b>

**HIGHLANDS COUNTY**  
**ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870

DESIGNED BY: ELIUS F. NORTELUS, P.E.  
 DRAWN BY: DOUG NIETUBICZ  
 CHECKED BY: KEITH BAKER, E.I.  
 IN CHARGE: ELIUS F. NORTELUS, P.E.  
 DATE: 5/9/2016

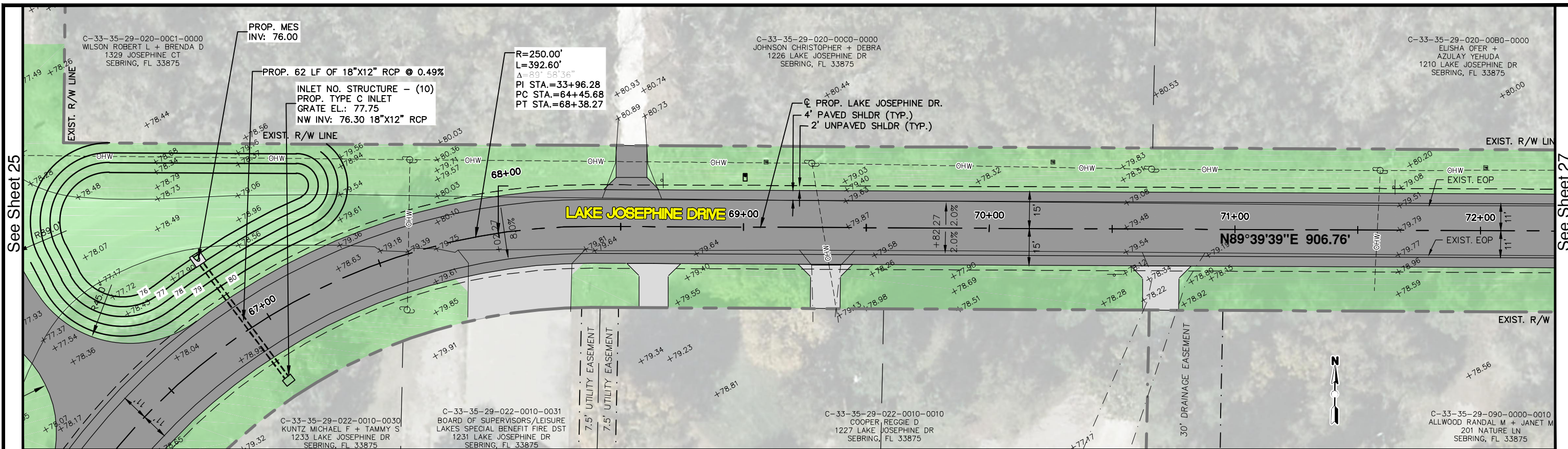
APPROVED BY: ELIUS F. NORTELUS, P.E.  
 FLORIDA REGISTRATION NO.: 70092



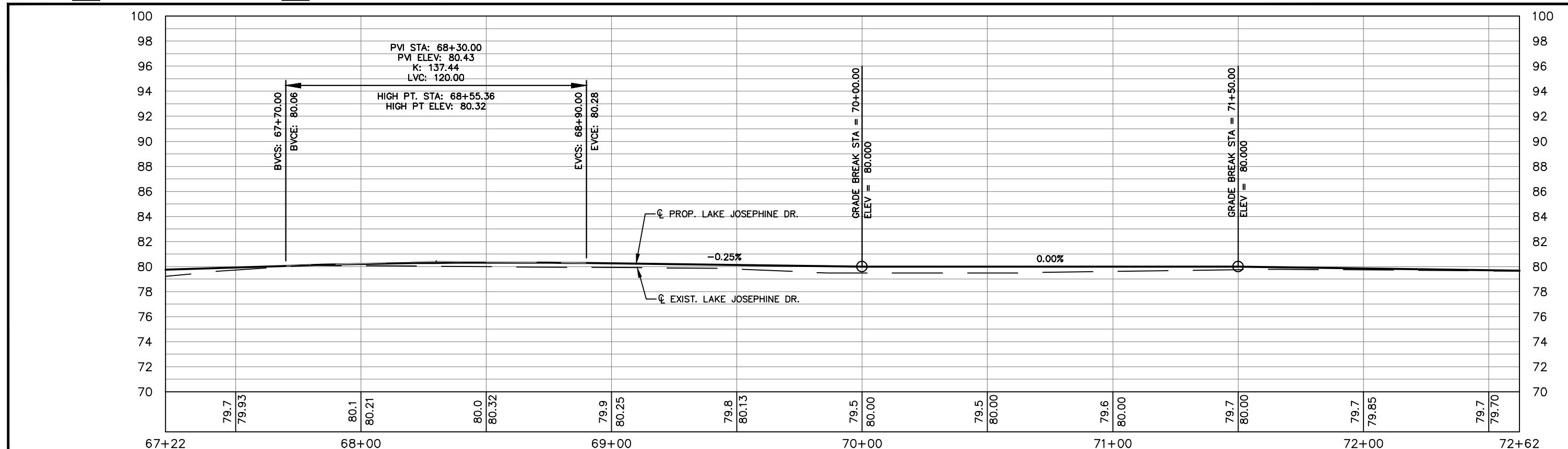
**LAKE JOSEPHINE DRIVE**  
**IMPROVEMENTS**  
**PLAN & PROFILE**

SCALE:  
 HORIZ. 1"=40'  
 VERT. 1"=8'  
 PROJECT NO. 13008  
 REV. 0  
 SHEET 25 OF 71

G:\PROJECTS\2013\13008 Lake Josephine Drive Resurfacing\Drawings\Full Depth Reconstruction Option\Plan & Profile West Sheets - 72+62.25.dwg, Plan & Profile West Sheets - 62+21.55, Baker, Keith J. Acad 1-7 Black.ctb



PROP. ASPHALT PAVEMENT  
 PROP. CONCRETE DRIVEWAY



REVISIONS		
DATE	BY	DESCRIPTION

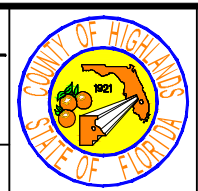
STATUS  
**FOR BID**

DESIGNED BY:  
 ELIUS F. NORTELUS, P.E.  
 DRAWN BY:  
 DOUG NIETUBICZ  
 CHECKED BY:  
 KEITH BAKER, E.I.  
 IN CHARGE:  
 ELIUS F. NORTELUS, P.E.  
 DATE:  
 5/9/2016

**HIGHLANDS COUNTY**  
**ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870

APPROVED BY: ELIUS F. NORTELUS, P.E.  
 FLORIDA REGISTRATION NO.: 70092

DATE: \_\_\_\_\_



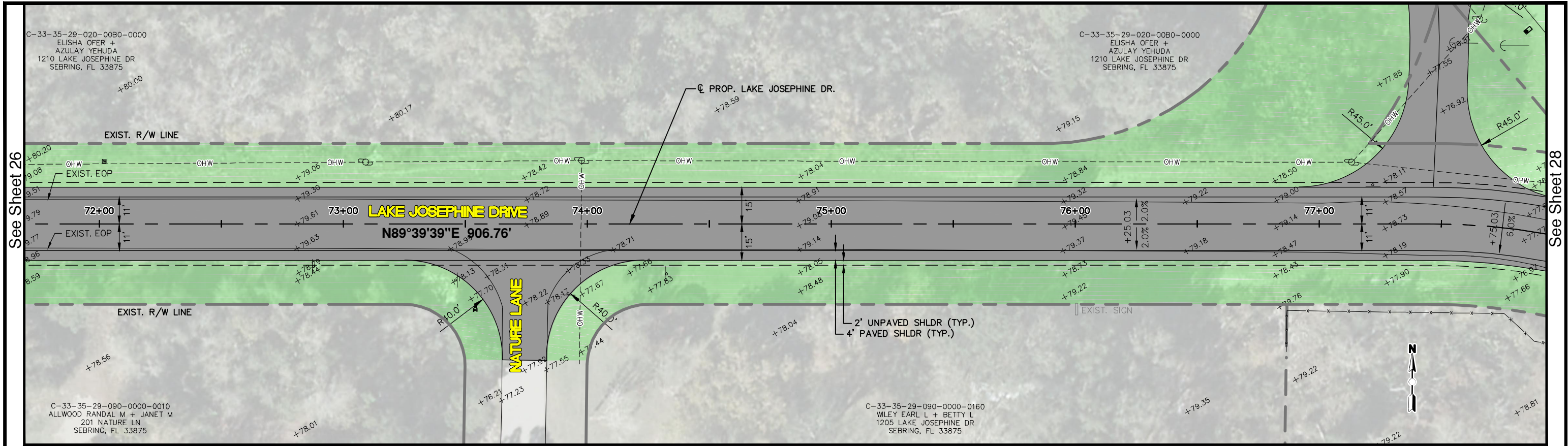
**LAKE JOSEPHINE DRIVE**  
**IMPROVEMENTS**  
**PLAN & PROFILE**

SCALE:  
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 VERT. 1"=8'

PROJECT NO. 13008  
 REV. 0

SHEET 26 OF 71

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PROP. ASPHALT PAVEMENT
  PROP. CONCRETE DRIVEWAY

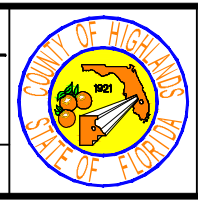


REVISIONS		STATUS
DATE	DESCRIPTION	
		<b>FOR BID</b>

DESIGNED BY:  
ELIUS F. NORTELUS, P.E.  
 DRAWN BY:  
DOUG NIETUBICZ  
 CHECKED BY:  
KEITH BAKER, E.I.  
 IN CHARGE:  
ELIUS F. NORTELUS, P.E.  
 DATE:  
5/9/2016

**HIGHLANDS COUNTY**  
**ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870

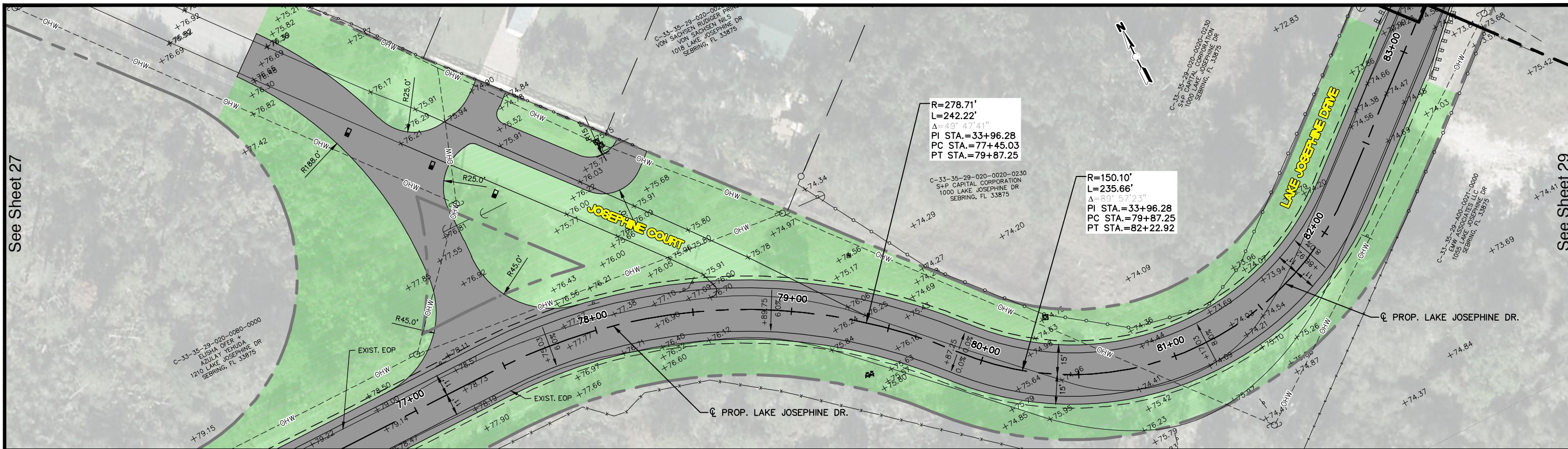
APPROVED BY: ELIUS F. NORTELUS, P.E.  
 FLORIDA REGISTRATION NO.: 70092



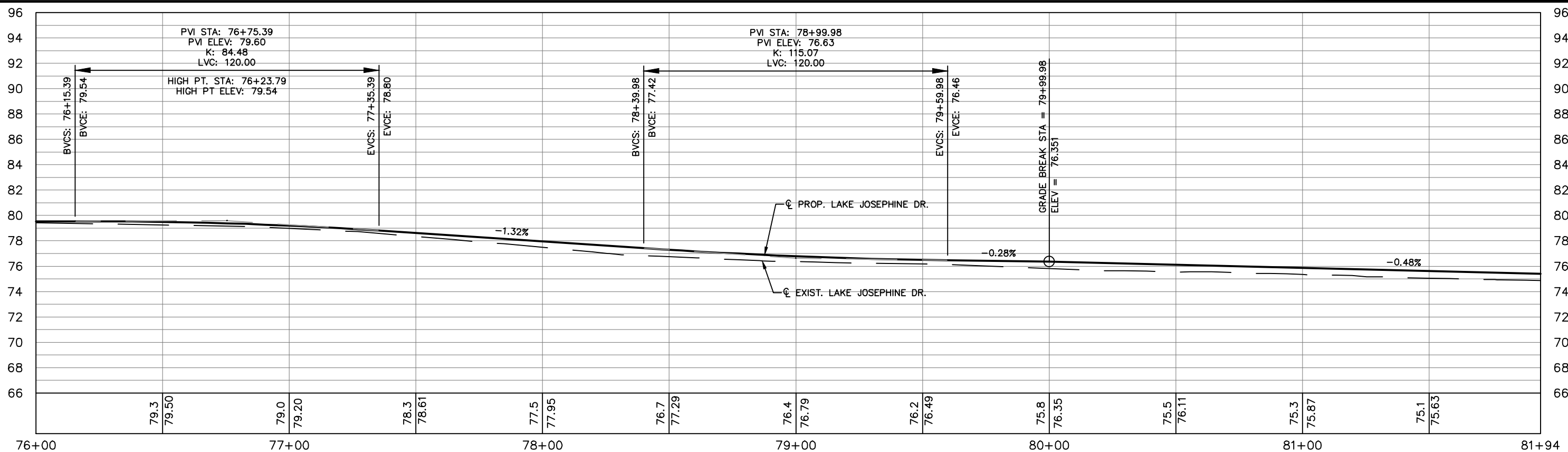
**LAKE JOSEPHINE DRIVE**  
**IMPROVEMENTS**  
**PLAN & PROFILE**

SCALE:  
 HORIZ. 1"=40'  
 VERT. 1"=8'  
 PROJECT NO. 13008  
 REV. 0  
 SHEET 27 OF 71

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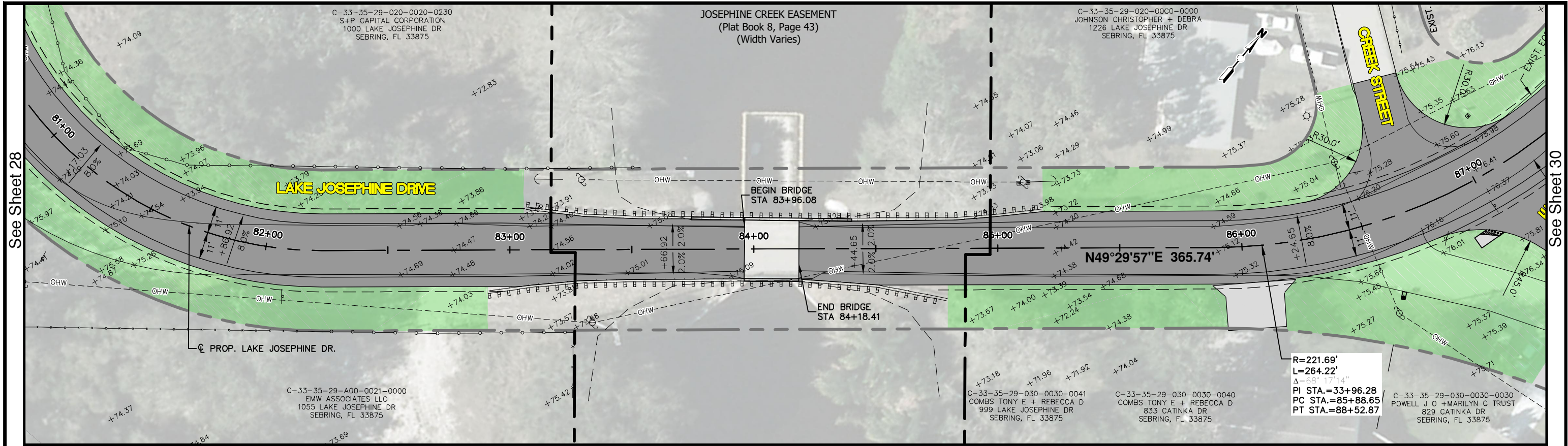


PROP. ASPHALT PAVEMENT
  PROP. CONCRETE DRIVEWAY

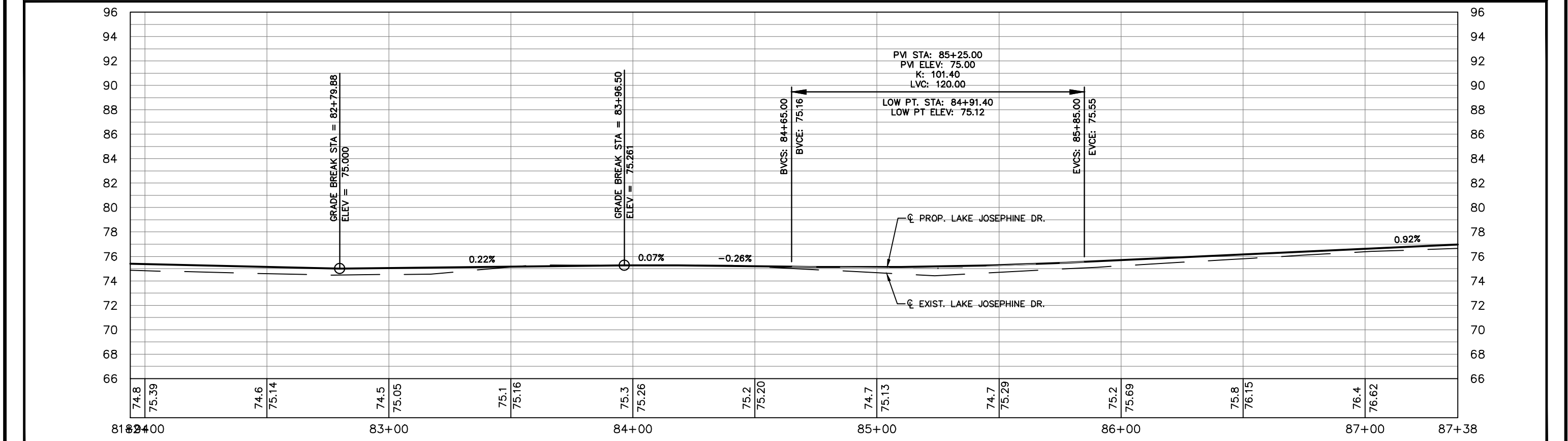


REVISIONS			STATUS		<b>FOR BID</b>	<b>HIGHLANDS COUNTY</b> <b>ENGINEERING DEPARTMENT</b> 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870		LAKE JOSEPHINE DRIVE IMPROVEMENTS			
DATE	BY	DESCRIPTION						PLAN & PROFILE			
								DESIGNED BY: ELIUS F. NORTELUS, P.E. DRAWN BY: DOUG NIETUBICZ CHECKED BY: KEITH BAKER, E.I. IN CHARGE: ELIUS F. NORTELUS, P.E. DATE: 5/9/2016	APPROVED BY: ELIUS F. NORTELUS, P.E. FLORIDA REGISTRATION NO.: 70092	DATE:	SCALE: HORIZ. 1"=40' VERT. 1"=8' PROJECT NO. 13008 REV. 0
SHEET 28 OF 71											

G:\PROJECTS\2013\13008 Lake Josephine Drive Resurfacing\Drawings\Full Depth Reconstruction Option\Plan & Profile East Sheets - 114+58.01.dwg, Plan & Profile East Sheets - 76+50.00, Baker, Keith J. Acad 1-7 Block.ctb

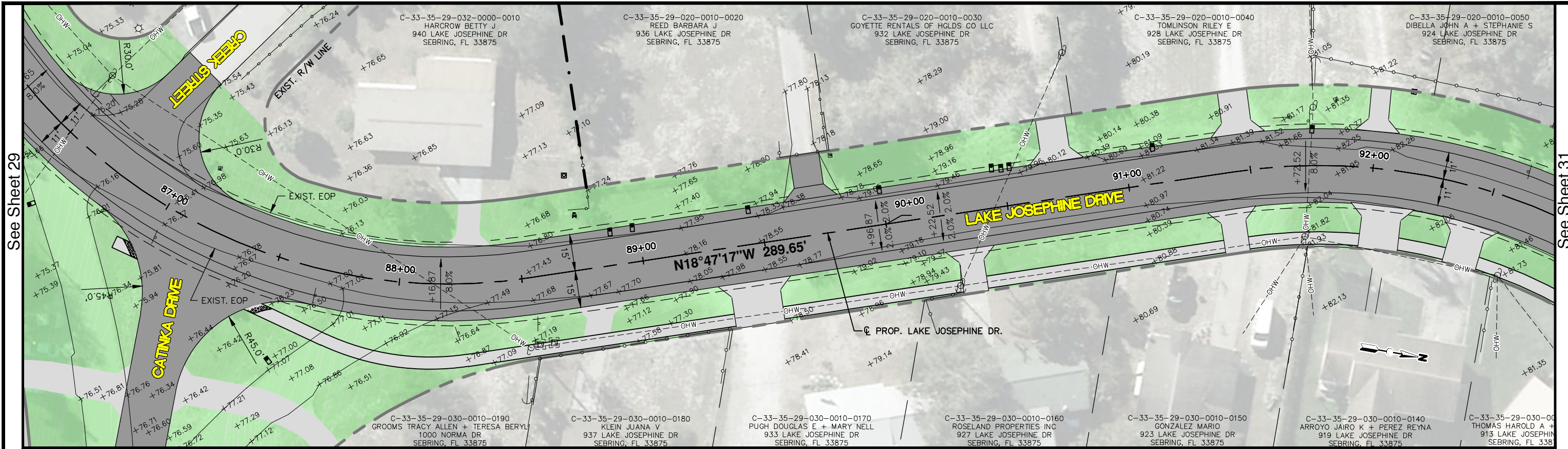


PROP. ASPHALT PAVEMENT
  PROP. CONCRETE DRIVEWAY



REVISIONS			STATUS		<b>FOR BID</b>	DESIGNED BY: ELIUS F. NORTELUS, P.E. DRAWN BY: DOUG NIETUBICZ CHECKED BY: KEITH BAKER, E.I. IN CHARGE: ELIUS F. NORTELUS, P.E. DATE: 5/9/2016	<b>HIGHLANDS COUNTY</b> <b>ENGINEERING DEPARTMENT</b> 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870		LAKE JOSEPHINE DRIVE IMPROVEMENTS PLAN & PROFILE	SCALE: HORIZ. 1"=40' VERT. 1"=8' PROJECT NO. 13008 REV. 0
DATE	BY	DESCRIPTION								

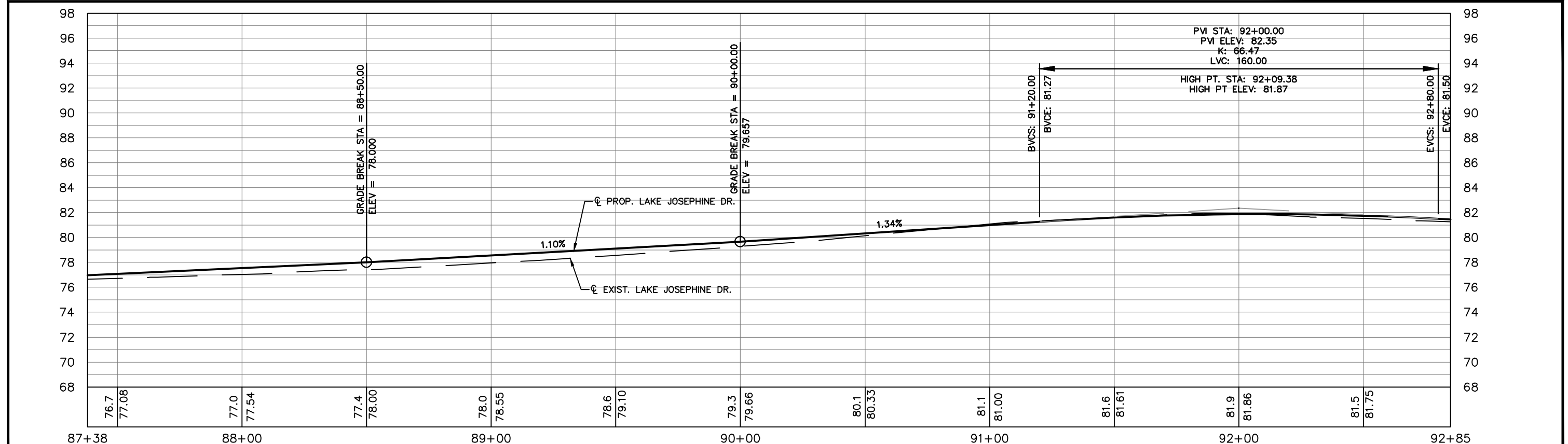
APPROVED BY: ELIUS F. NORTELUS, P.E. DATE: FLORIDA REGISTRATION NO.: 70092



See Sheet 29

See Sheet 31

PROP. ASPHALT PAVEMENT  
 PROP. CONCRETE DRIVEWAY

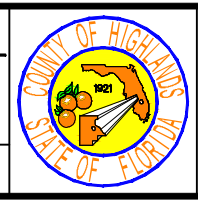


REVISIONS			STATUS
DATE	BY	DESCRIPTION	
			<b>FOR BID</b>

**HIGHLANDS COUNTY**  
**ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870

DESIGNED BY: ELIUS F. NORTELUS, P.E.  
 DRAWN BY: DOUG NIETUBICZ  
 CHECKED BY: KEITH BAKER, E.I.  
 IN CHARGE: ELIUS F. NORTELUS, P.E.  
 DATE: 5/9/2016

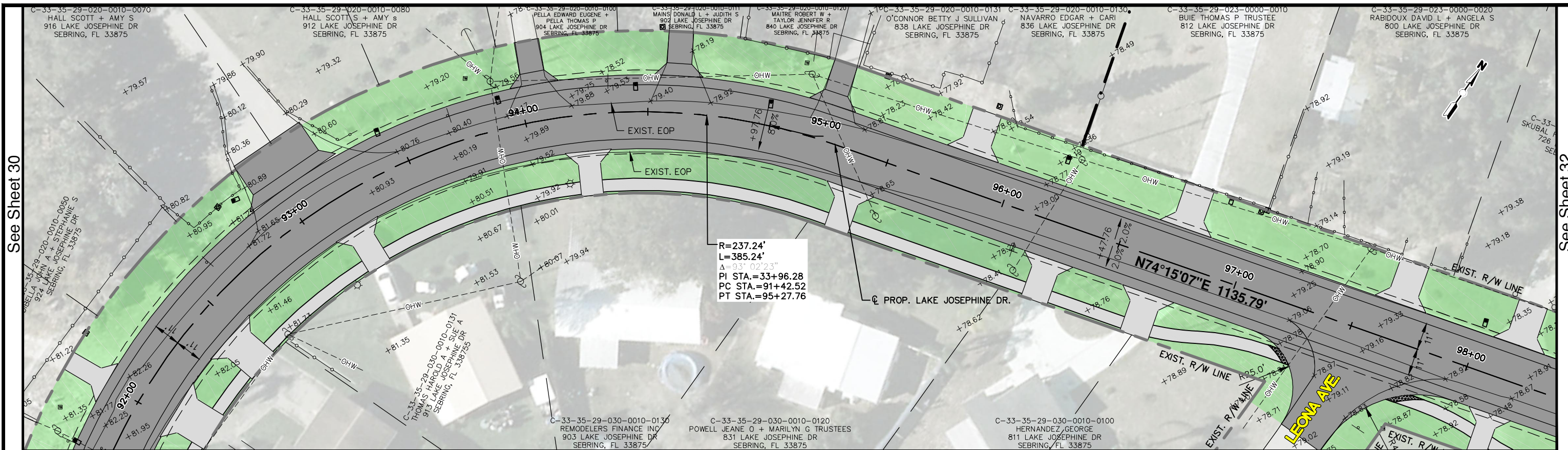
APPROVED BY: ELIUS F. NORTELUS, P.E.  
 FLORIDA REGISTRATION NO.: 70092



**LAKE JOSEPHINE DRIVE**  
**IMPROVEMENTS**  
**PLAN & PROFILE**

SCALE:  
 HORIZ. 1"=40'  
 VERT. 1"=8'  
 PROJECT NO. 13008  
 REV. 0  
 SHEET 30 OF 71

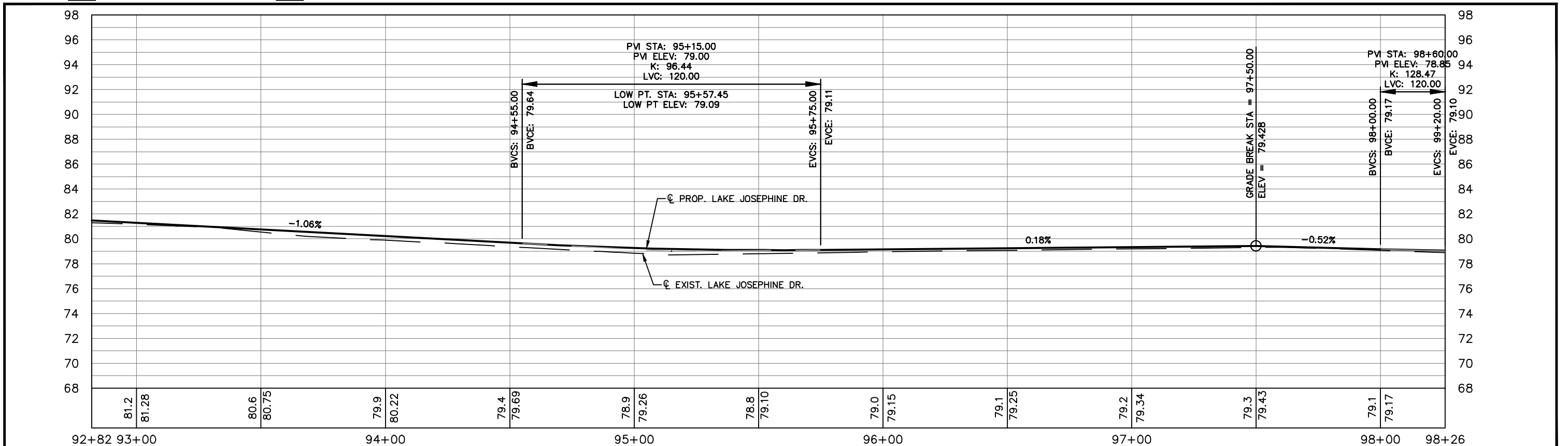
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See Sheet 30

See Sheet 32

PROP. ASPHALT PAVEMENT  
 PROP. CONCRETE DRIVEWAY



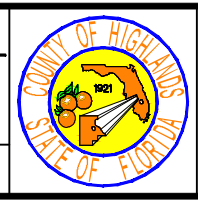
REVISIONS		
DATE	BY	DESCRIPTION

STATUS
FOR BID

**HIGHLANDS COUNTY**  
**ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870

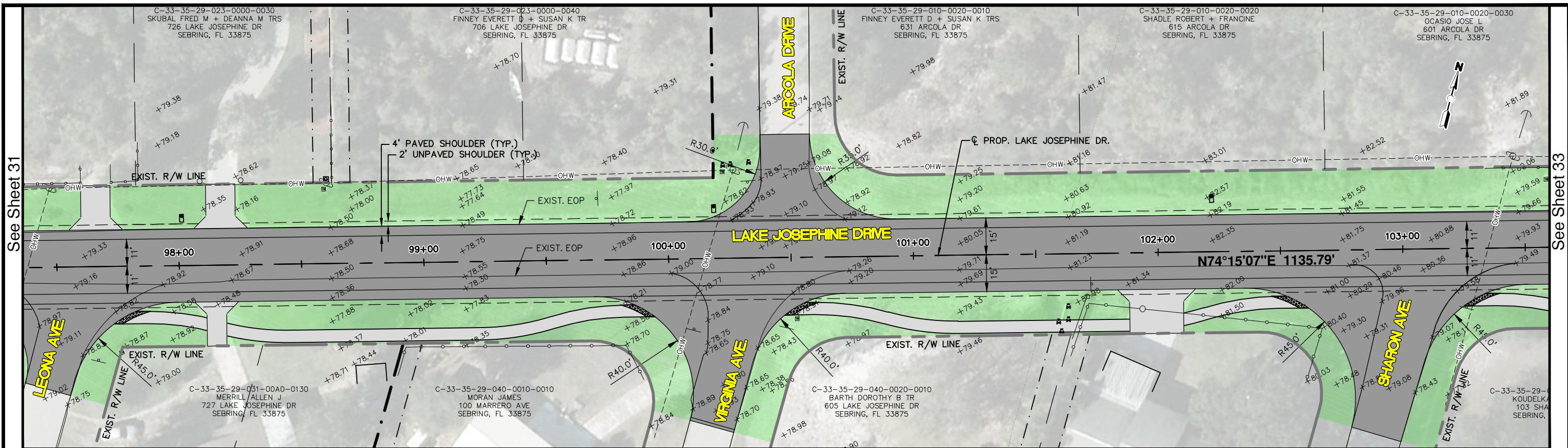
DESIGNED BY: ELIUS F. NORTELUS, P.E.  
 DRAWN BY: DOUG NIETUBICZ  
 CHECKED BY: KEITH BAKER, E.I.  
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 DATE: 5/9/2016

APPROVED BY: ELIUS F. NORTELUS, P.E.  
 FLORIDA REGISTRATION NO.: 70092

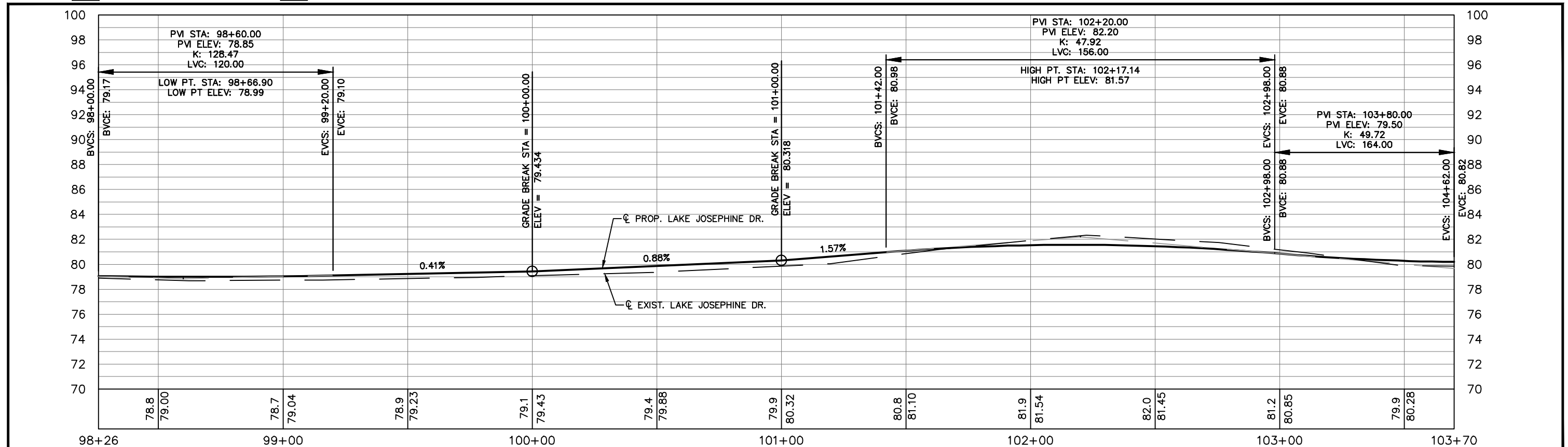


**LAKE JOSEPHINE DRIVE**  
**IMPROVEMENTS**  
**PLAN & PROFILE**

SCALE: HORIZ. 1"=40' VERT. 1"=8'	
PROJECT NO. 13008	REV. 0
SHEET 31 OF 71	



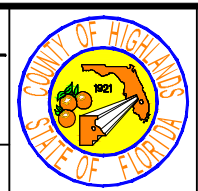
PROP. ASPHALT PAVEMENT  
 PROP. CONCRETE DRIVEWAY



REVISIONS		
DATE	BY	DESCRIPTION

STATUS  
**FOR BID**

**HIGHLANDS COUNTY**  
**ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870



**LAKE JOSEPHINE DRIVE**  
**IMPROVEMENTS**  
**PLAN & PROFILE**

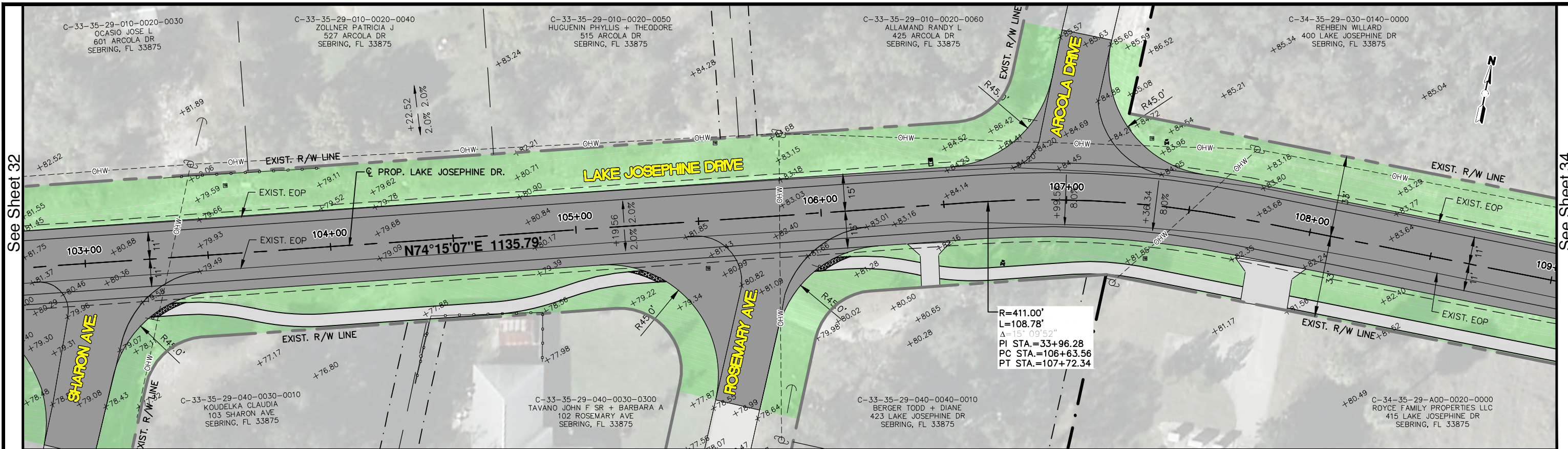
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 VERT. 1"=8'  
 PROJECT NO. 13008  
 REV. 0  
 SHEET 32 OF 71

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DESIGNED BY: ELIUS F. NORTELUS, P.E.  
 DRAWN BY: DOUG NIETUBICZ  
 CHECKED BY: KEITH BAKER, E.I.  
 IN CHARGE: ELIUS F. NORTELUS, P.E.  
 DATE: 5/9/2016  
 APPROVED BY: ELIUS F. NORTELUS, P.E.  
 FLORIDA REGISTRATION NO.: 70092

DATE:

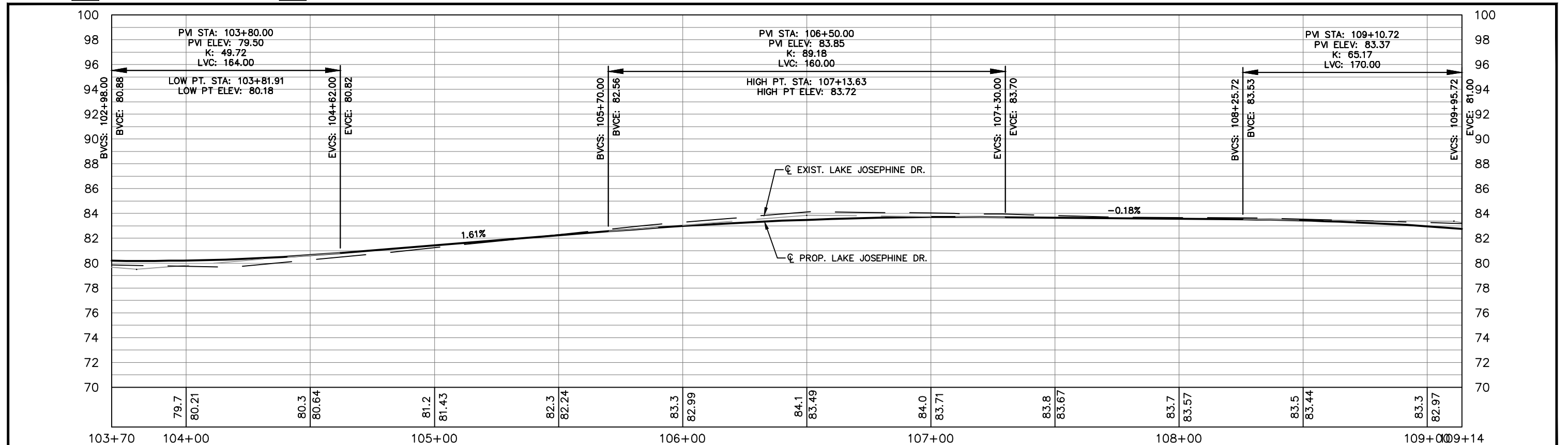




See Sheet 32

See Sheet 34

PROP. ASPHALT PAVEMENT  
PROP. CONCRETE DRIVEWAY



REVISIONS		
DATE	BY	DESCRIPTION

STATUS  
**FOR BID**

DESIGNED BY:  
ELIUS F. NORTELUS, P.E.

DRAWN BY:  
DOUG NIETUBICZ

CHECKED BY:  
KEITH BAKER, E.I.

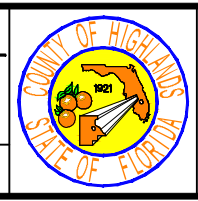
IN CHARGE:  
ELIUS F. NORTELUS, P.E.

DATE:  
5/9/2016

**HIGHLANDS COUNTY  
ENGINEERING DEPARTMENT**  
505 S. COMMERCE AVENUE  
SEBRING, FLORIDA 33870

APPROVED BY: ELIUS F. NORTELUS, P.E.  
FLORIDA REGISTRATION NO.: 70092

DATE:



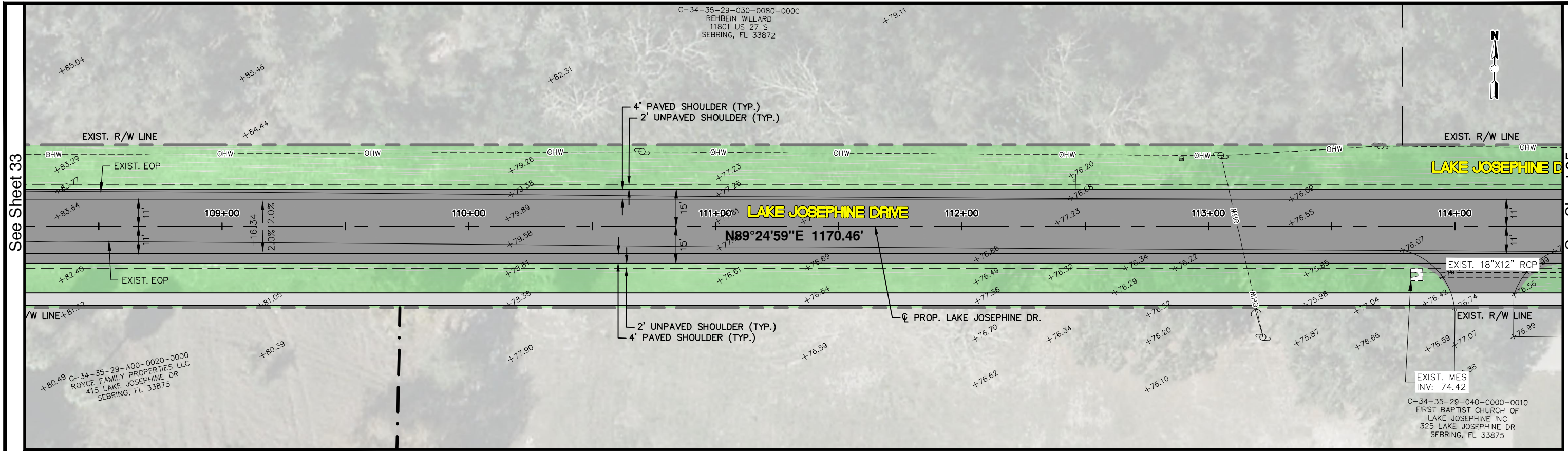
**LAKE JOSEPHINE DRIVE  
IMPROVEMENTS**  
PLAN & PROFILE

SCALE:  
HORIZ. 1"=40'  
VERT. 1"=8'

PROJECT NO. 13008  
REV. 0

SHEET 33 OF 71

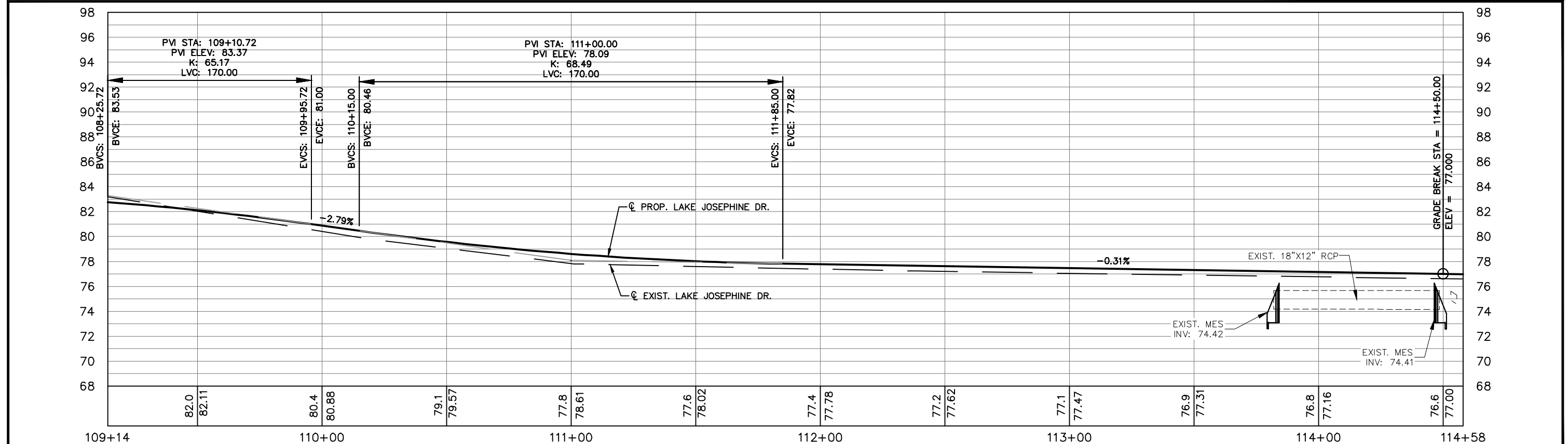
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 REHBEIN WILLARD  
 11801 US 27 S  
 SEBRING, FL 33872



See Sheet 33

See Sheet 35

PROP. ASPHALT PAVEMENT  
 PROP. CONCRETE DRIVEWAY



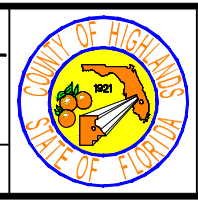
REVISIONS		STATUS
DATE	DESCRIPTION	
		<b>FOR BID</b>

DESIGNED BY:  
 ELIUS F. NORTELUS, P.E.  
 DRAWN BY:  
 DOUG NIETUBICZ  
 CHECKED BY:  
 KEITH BAKER, E.I.  
 IN CHARGE:  
 ELIUS F. NORTELUS, P.E.  
 DATE:  
 5/9/2016

**HIGHLANDS COUNTY  
 ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870

APPROVED BY: ELIUS F. NORTELUS, P.E.  
 FLORIDA REGISTRATION NO.: 70092

DATE:



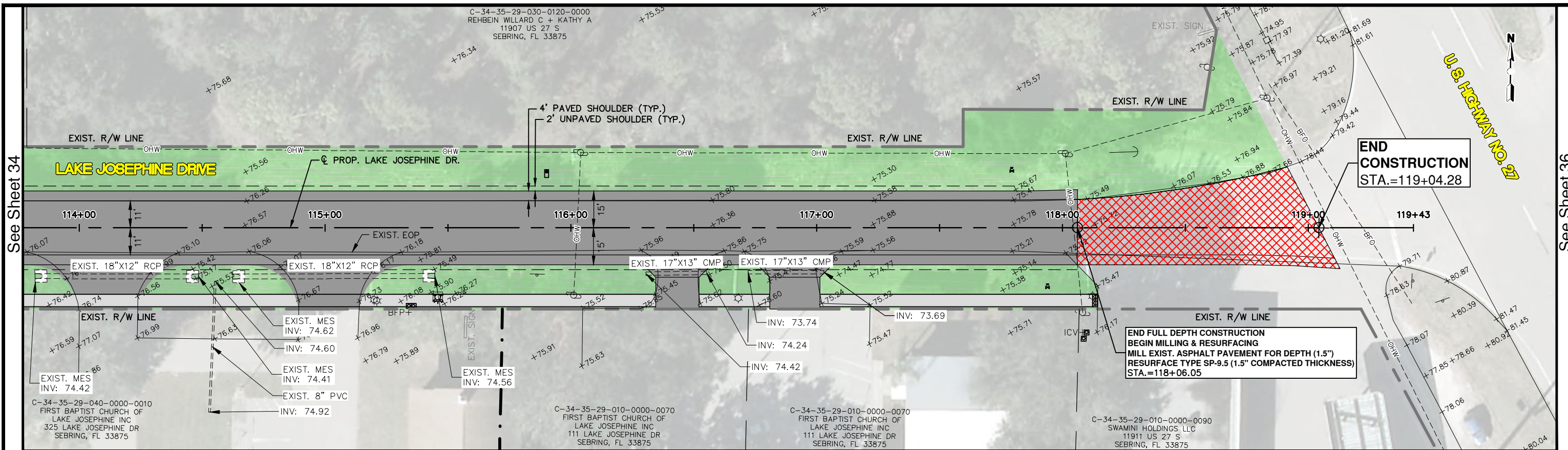
**LAKE JOSEPHINE DRIVE  
 IMPROVEMENTS  
 PLAN & PROFILE**

SCALE:  
 HORIZ. 1"=40'  
 VERT. 1"=8'

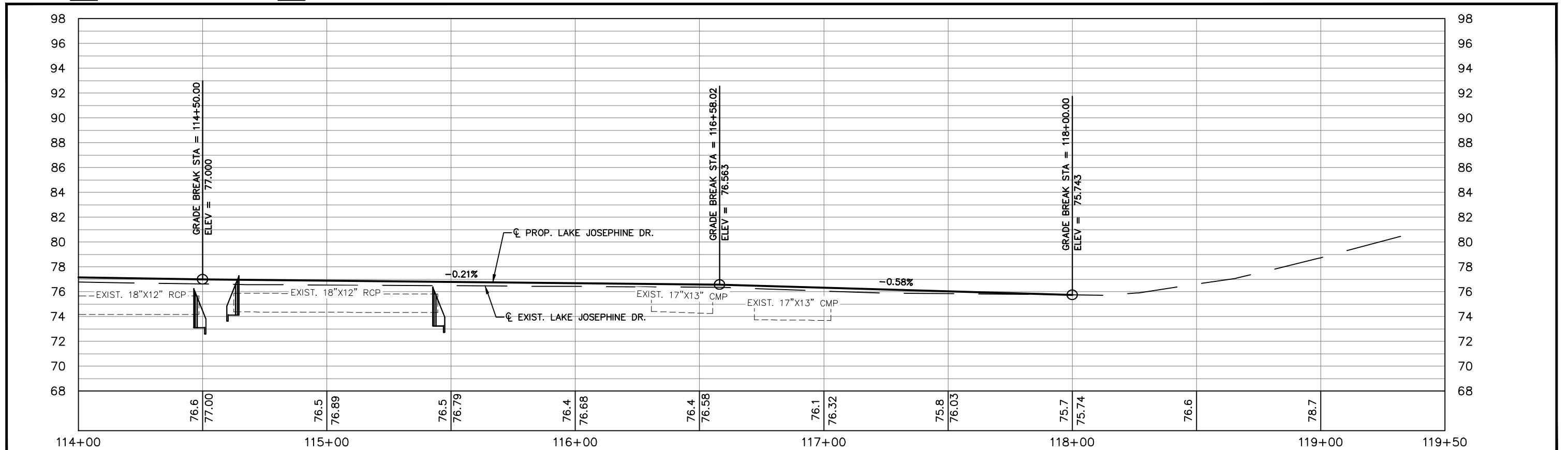
PROJECT NO. 13008  
 REV. 0

SHEET 34 OF 71

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PROP. ASPHALT PAVEMENT  
 PROP. CONCRETE DRIVEWAY

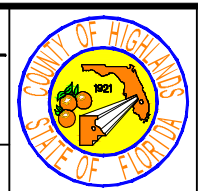


REVISIONS		STATUS
DATE	DESCRIPTION	
		<b>FOR BID</b>

DESIGNED BY: KENYA ANDERSON  
 DRAWN BY: BRUCE DOREY  
 CHECKED BY: ELIUS F. NORTELUS, P.E.  
 IN CHARGE: ELIUS F. NORTELUS, P.E.  
 DATE: 5/9/2016

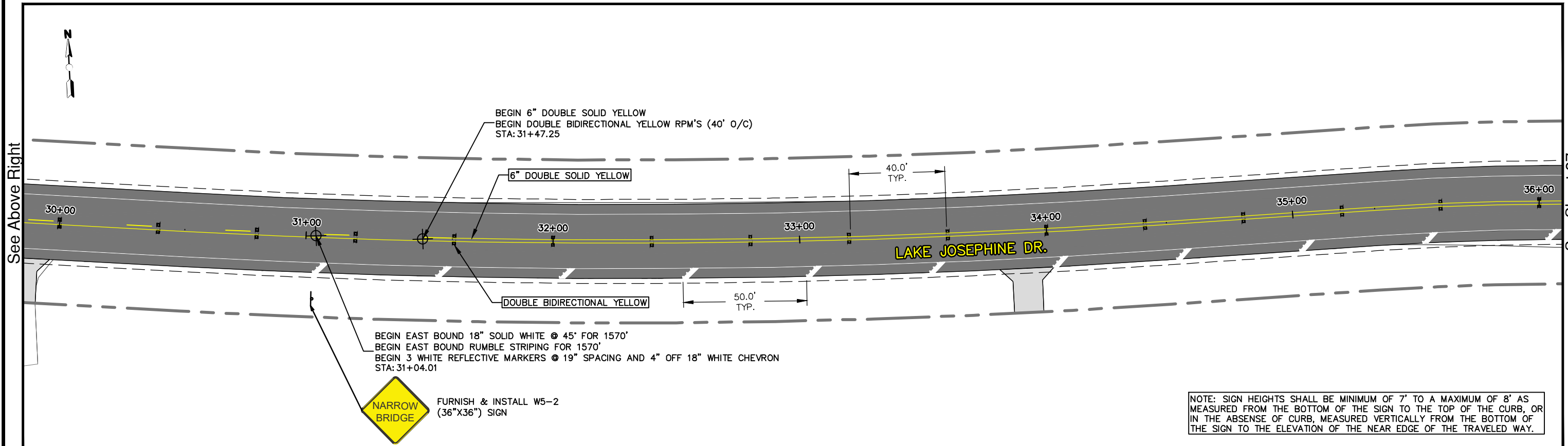
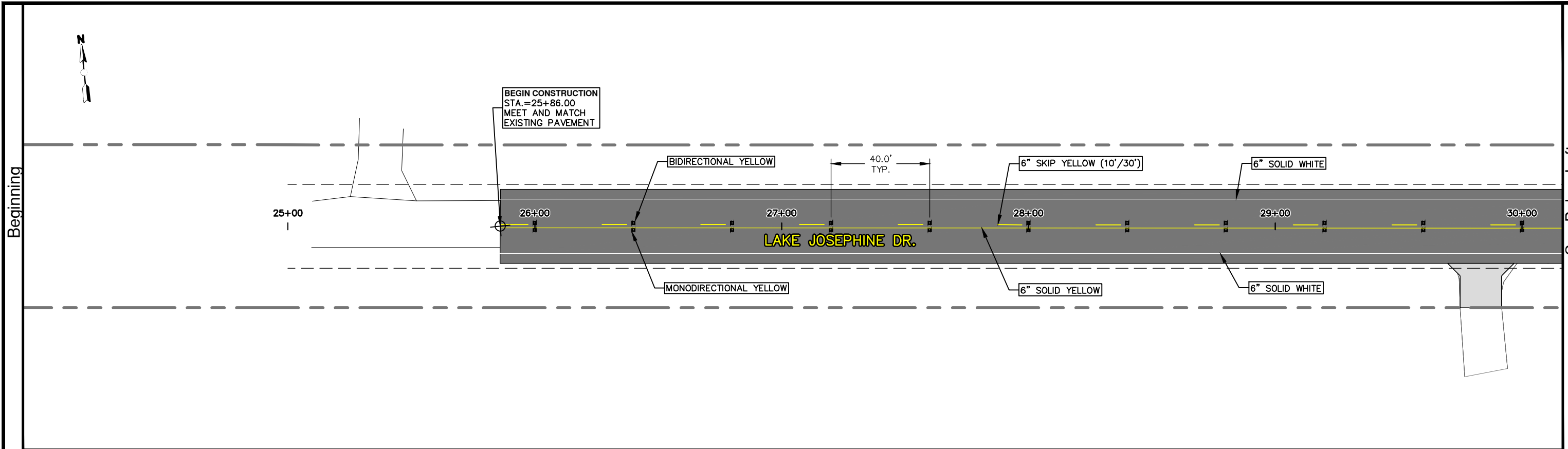
**HIGHLANDS COUNTY**  
**ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870

APPROVED BY: ELIUS F. NORTELUS, P.E.  
 FLORIDA REGISTRATION NO.: 70092



**LAKE JOSEPHINE DRIVE**  
**IMPROVEMENTS**  
**PLAN & PROFILE**

SCALE: HORIZ. 1"=40' VERT. 1"=8'	
PROJECT NO. 13008	REV. 0
SHEET 35 OF 71	



NOTE: SIGN HEIGHTS SHALL BE MINIMUM OF 7' TO A MAXIMUM OF 8' AS MEASURED FROM THE BOTTOM OF THE SIGN TO THE TOP OF THE CURB, OR IN THE ABSENSE OF CURB, MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE ELEVATION OF THE NEAR EDGE OF THE TRAVELED WAY.

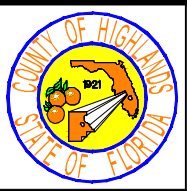
REVISIONS		STATUS
DATE	DESCRIPTION	
		<b>FOR BID</b>

DESIGNED BY:  
ELIUS F. NORTELUS, P.E.  
DRAWN BY:  
KEITH BAKER, E.I.  
CHECKED BY:  
KEITH BAKER, E.I.  
IN CHARGE:  
ELIUS F. NORTELUS, P.E.  
DATE:  
5/9/2016

**HIGHLANDS COUNTY  
ENGINEERING DEPARTMENT**  
505 S. COMMERCE AVENUE  
SEBRING, FLORIDA 33870

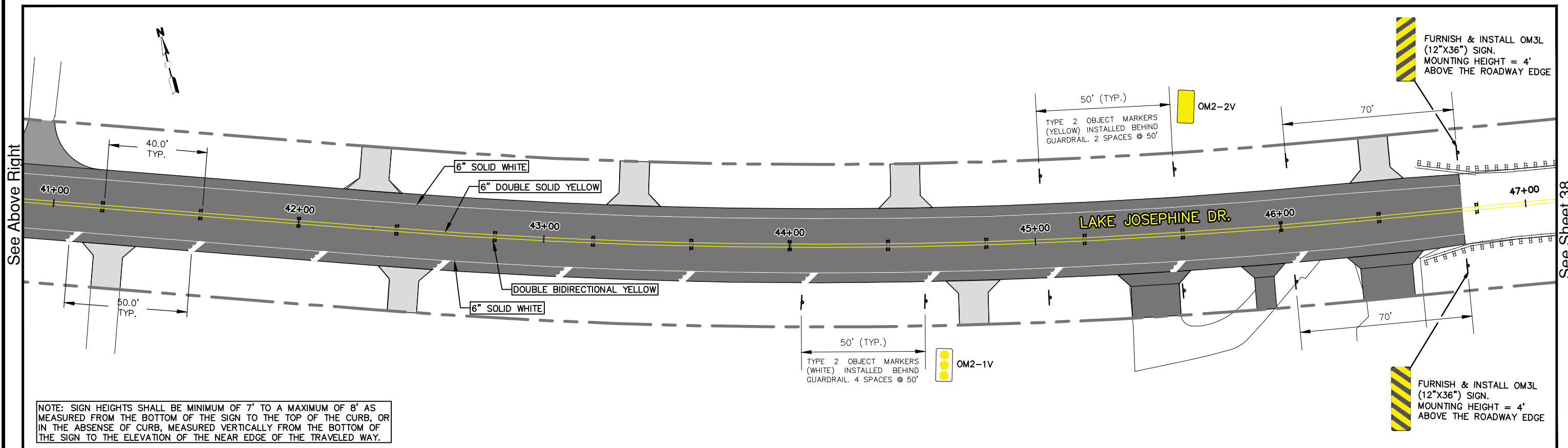
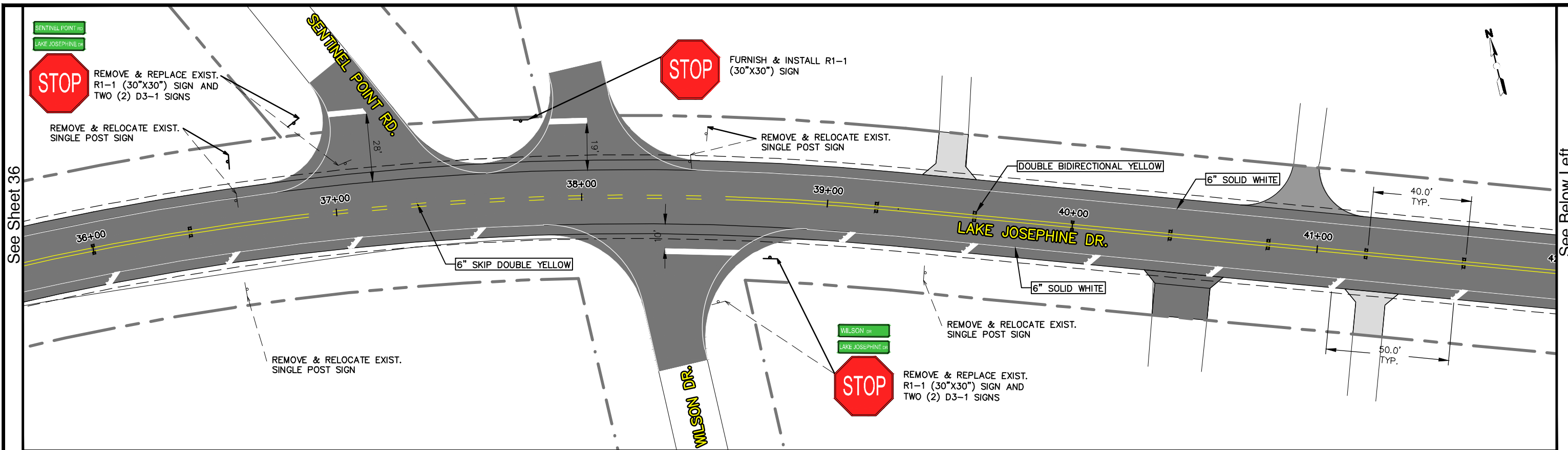
APPROVED BY: ELIUS F. NORTELUS, P.E.  
FLORIDA REGISTRATION NO.: 70092

DATE: \_\_\_\_\_



**LAKE JOSEPHINE DRIVE  
IMPROVEMENTS  
SIGN & PAVEMENT MARKING PLAN**

SCALE: HORIZ. 1"=40' VERT. N/A	
PROJECT NO. 13008	REV. 0
SHEET 36 OF 71	



REVISIONS		STATUS
DATE	DESCRIPTION	
		<b>FOR BID</b>

DESIGNED BY:  
ELIUS F. NORTELUS, P.E.

DRAWN BY:  
KEITH BAKER, E.I.

CHECKED BY:  
ELIUS F. NORTELUS, P.E.

IN CHARGE:  
ELIUS F. NORTELUS, P.E.

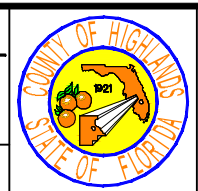
DATE:  
5/9/2016

**HIGHLANDS COUNTY  
ENGINEERING DEPARTMENT**

505 S. COMMERCE AVENUE  
SEBRING, FLORIDA 33870

APPROVED BY: ELIUS F. NORTELUS, P.E.  
FLORIDA REGISTRATION NO.: 70092

DATE: \_\_\_\_\_

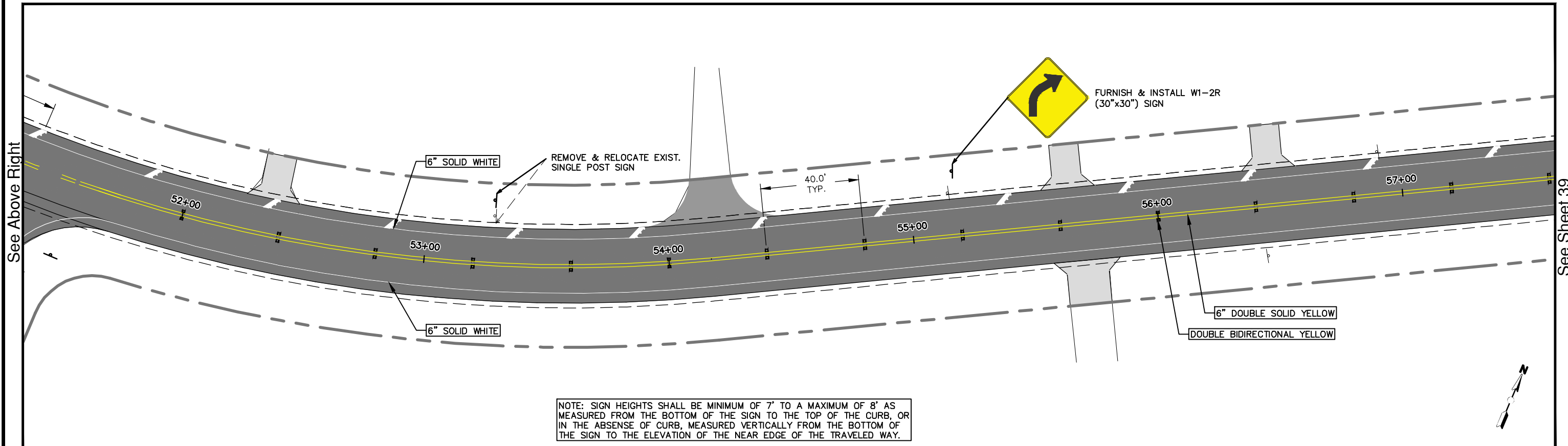
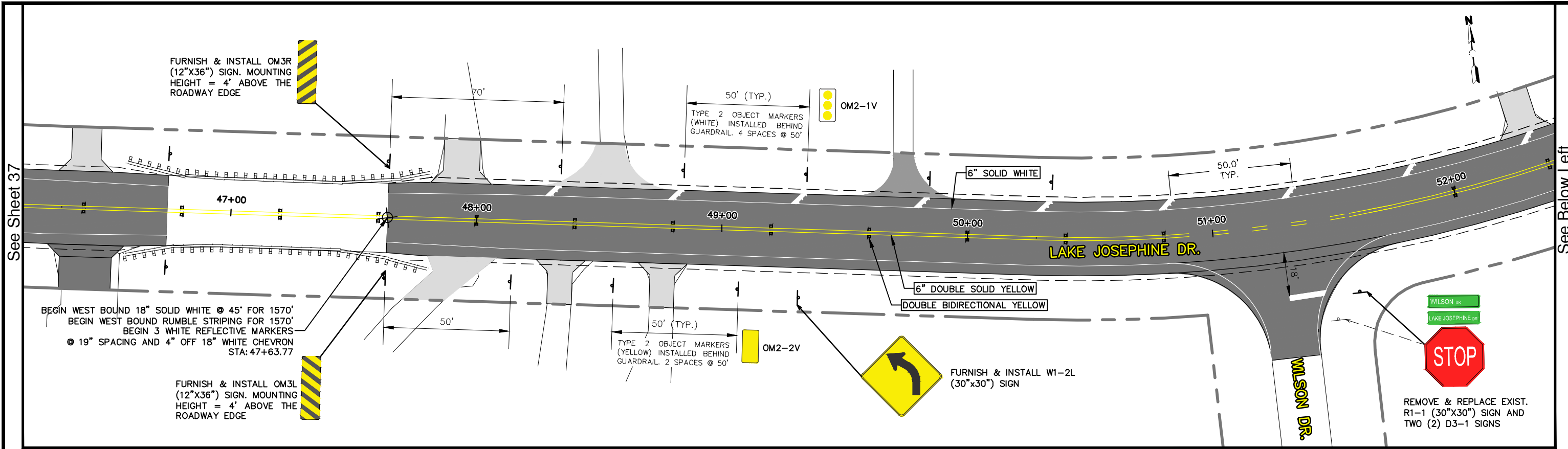


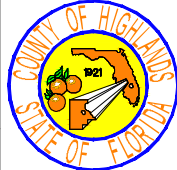
**LAKE JOSEPHINE DRIVE  
IMPROVEMENTS  
SIGN & PAVEMENT MARKING PLAN**

SCALE:  
HORIZ. 1"=40'  
VERT. N/A

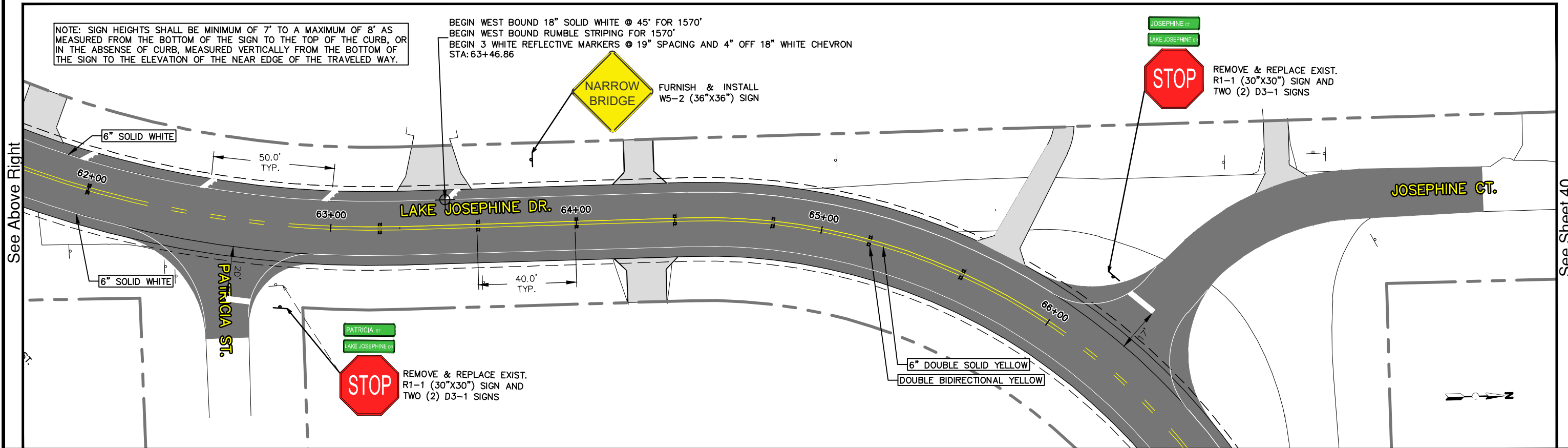
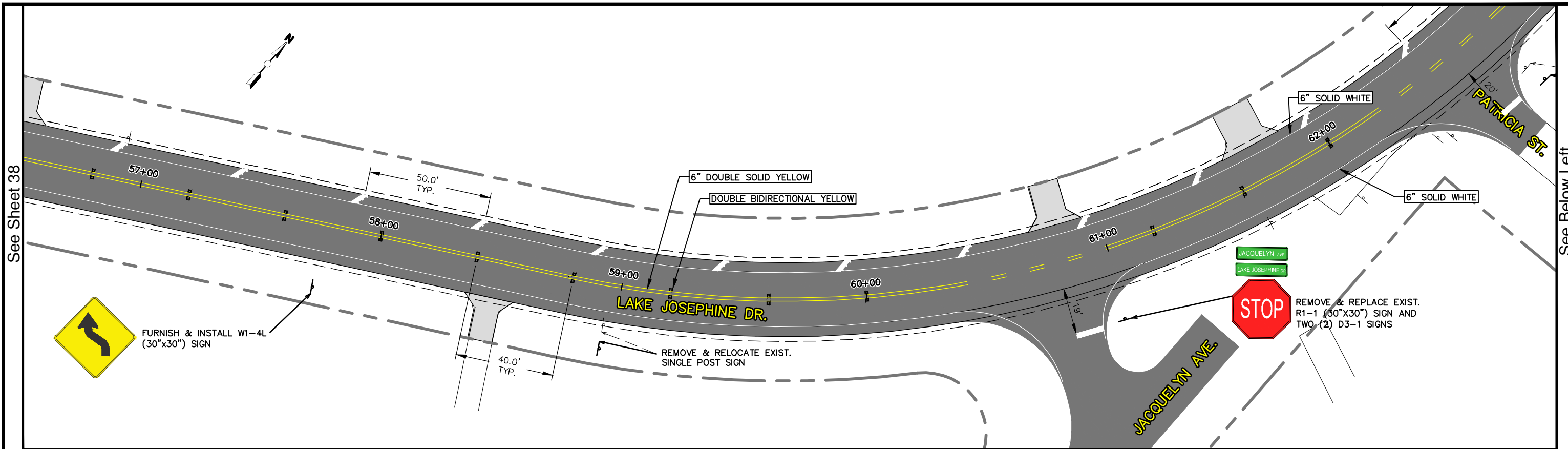
PROJECT NO. 13008    REV. 0

SHEET 37 OF 71



REVISIONS			STATUS	DESIGNED BY: ELIUS F. NORTELUS, P.E.	HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870		LAKE JOSEPHINE DRIVE IMPROVEMENTS SIGN & PAVEMENT MARKING PLAN		SCALE: HORIZ. 1"=40' VERT. N/A
DATE	BY	DESCRIPTION					PROJECT NO. 13008	REV. 0	
			<b>FOR BID</b>	DRAWN BY: KEITH BAKER, E.I.	APPROVED BY: ELIUS F. NORTELUS, P.E. FLORIDA REGISTRATION NO.: 70092	DATE: 5/9/2016	SHEET 38 OF 71		
				CHECKED BY: KEITH BAKER, E.I.					
				IN CHARGE: ELIUS F. NORTELUS, P.E.					

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NOTE: SIGN HEIGHTS SHALL BE MINIMUM OF 7' TO A MAXIMUM OF 8' AS MEASURED FROM THE BOTTOM OF THE SIGN TO THE TOP OF THE CURB, OR IN THE ABSENCE OF CURB, MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE ELEVATION OF THE NEAR EDGE OF THE TRAVELED WAY.

BEGIN WEST BOUND 18" SOLID WHITE @ 45' FOR 1570'  
 BEGIN WEST BOUND RUMBLE STRIPING FOR 1570'  
 BEGIN 3 WHITE REFLECTIVE MARKERS @ 19" SPACING AND 4" OFF 18" WHITE CHEVRON  
 STA: 63+46.86

See Sheet 38

See Below Left

See Above Right

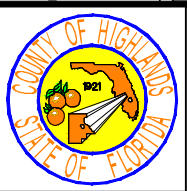
See Sheet 40

REVISIONS		STATUS
DATE	DESCRIPTION	
		<b>FOR BID</b>

DESIGNED BY:  
ELIUS F. NORTELUS, P.E.  
 DRAWN BY:  
KEITH BAKER, E.I.  
 CHECKED BY:  
KEITH BAKER, E.I.  
 IN CHARGE:  
ELIUS F. NORTELUS, P.E.  
 DATE:  
5/9/2016

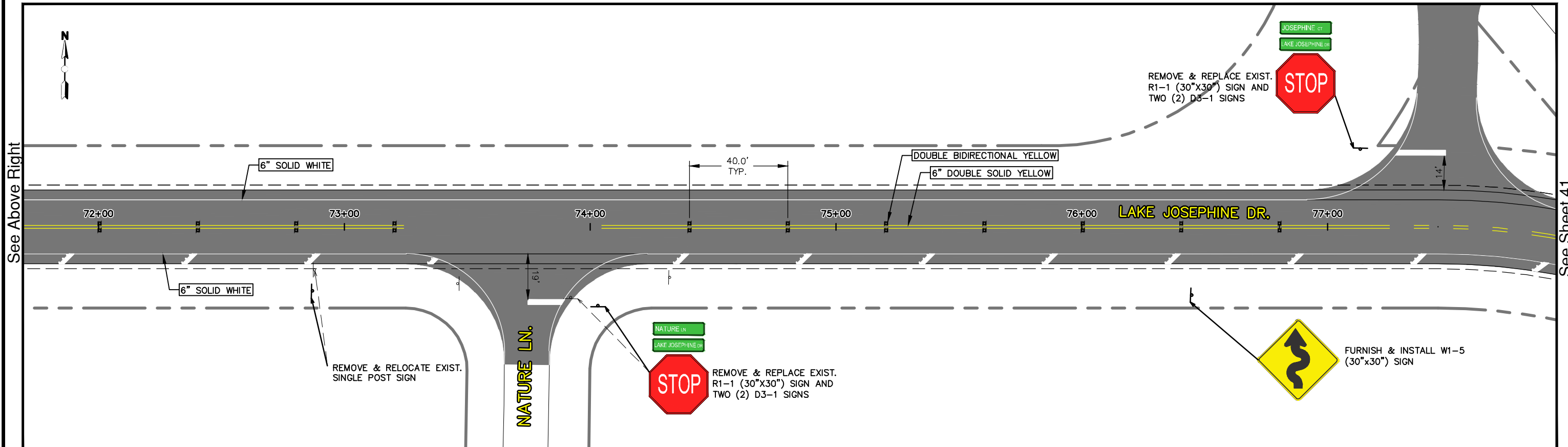
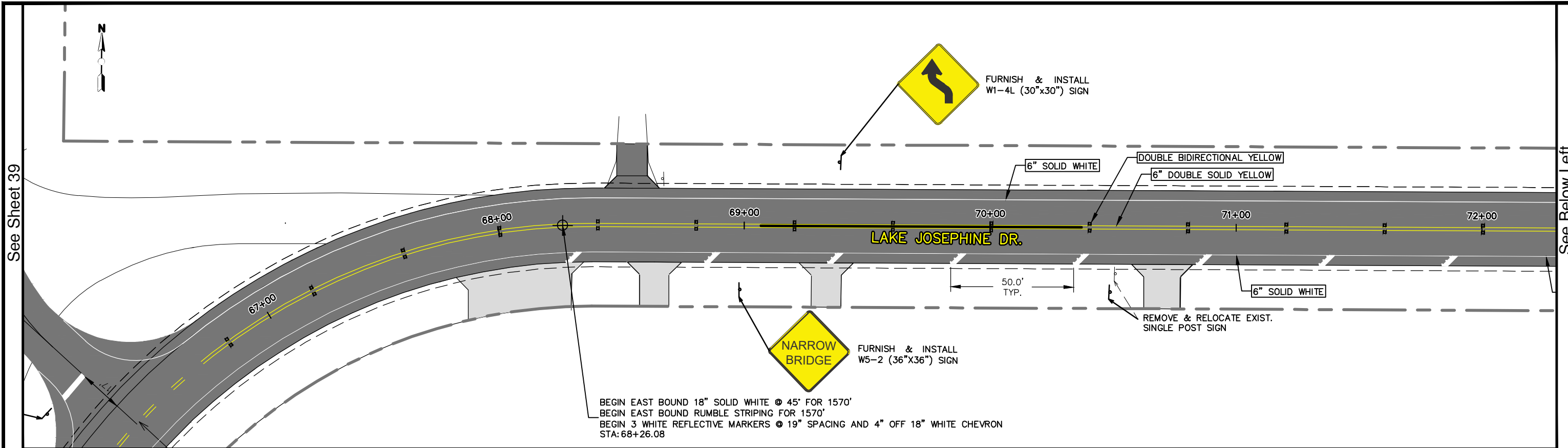
**HIGHLANDS COUNTY  
 ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870

APPROVED BY: ELIUS F. NORTELUS, P.E.  
 FLORIDA REGISTRATION NO.: 70092



**LAKE JOSEPHINE DRIVE  
 IMPROVEMENTS  
 SIGN & PAVEMENT MARKING PLAN**

SCALE: HORIZ. 1"=40' VERT. N/A	
PROJECT NO. 13008	REV. 0
SHEET 39 OF 71	



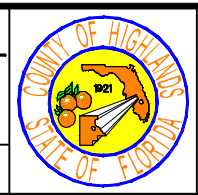
REVISIONS		
DATE	BY	DESCRIPTION

STATUS
FOR BID

DESIGNED BY: ELIUS F. NORTELUS, P.E.  
 DRAWN BY: KEITH BAKER, E.I.  
 CHECKED BY: KEITH BAKER, E.I.  
 IN CHARGE: ELIUS F. NORTELUS, P.E.  
 DATE: 5/9/2016

**HIGHLANDS COUNTY**  
**ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870

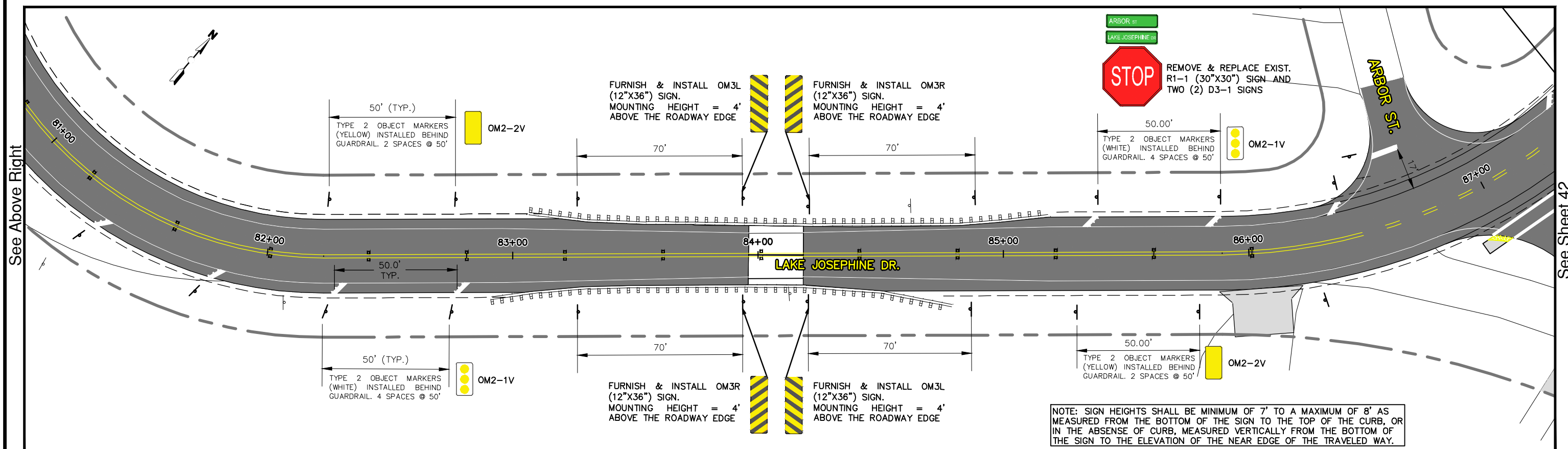
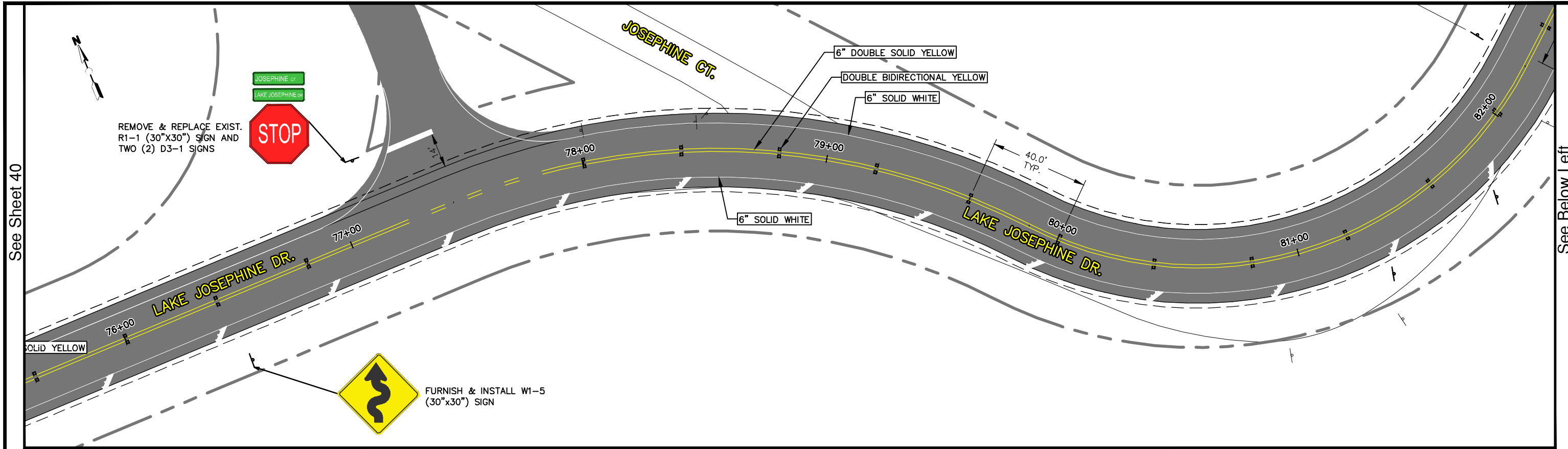
APPROVED BY: ELIUS F. NORTELUS, P.E.  
 FLORIDA REGISTRATION NO.: 70092



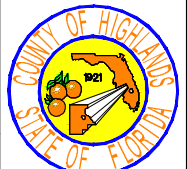
**LAKE JOSEPHINE DRIVE**  
**IMPROVEMENTS**  
 SIGN & PAVEMENT MARKING PLAN

SCALE: HORIZ. 1"=40' VERT. N/A	
PROJECT NO. 13008	REV. 0
SHEET 40 OF 71	

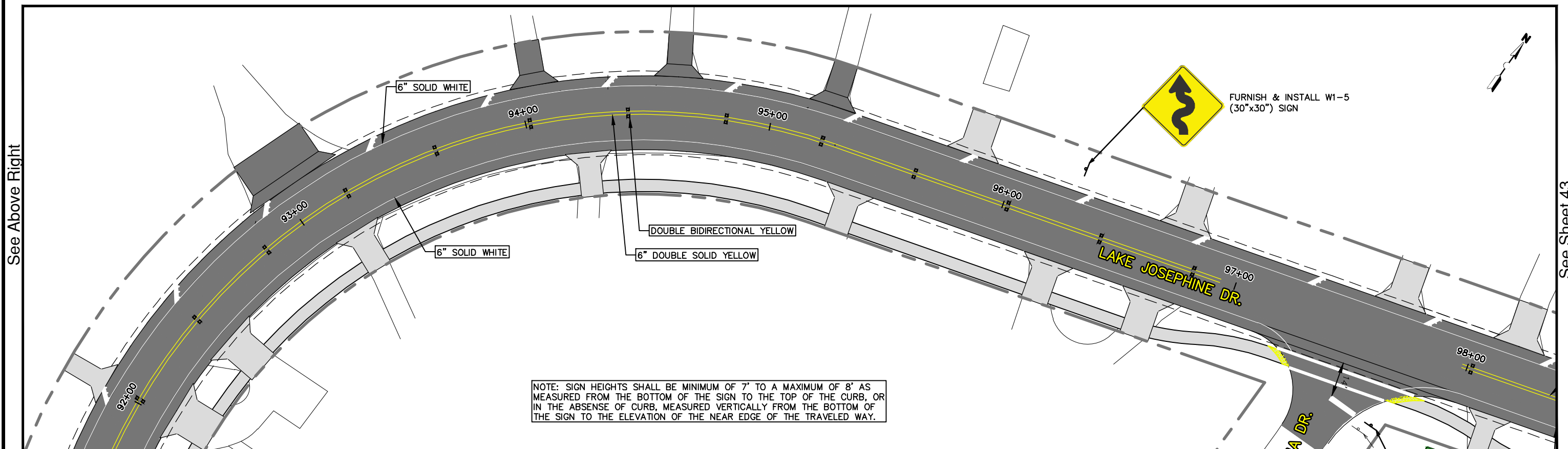
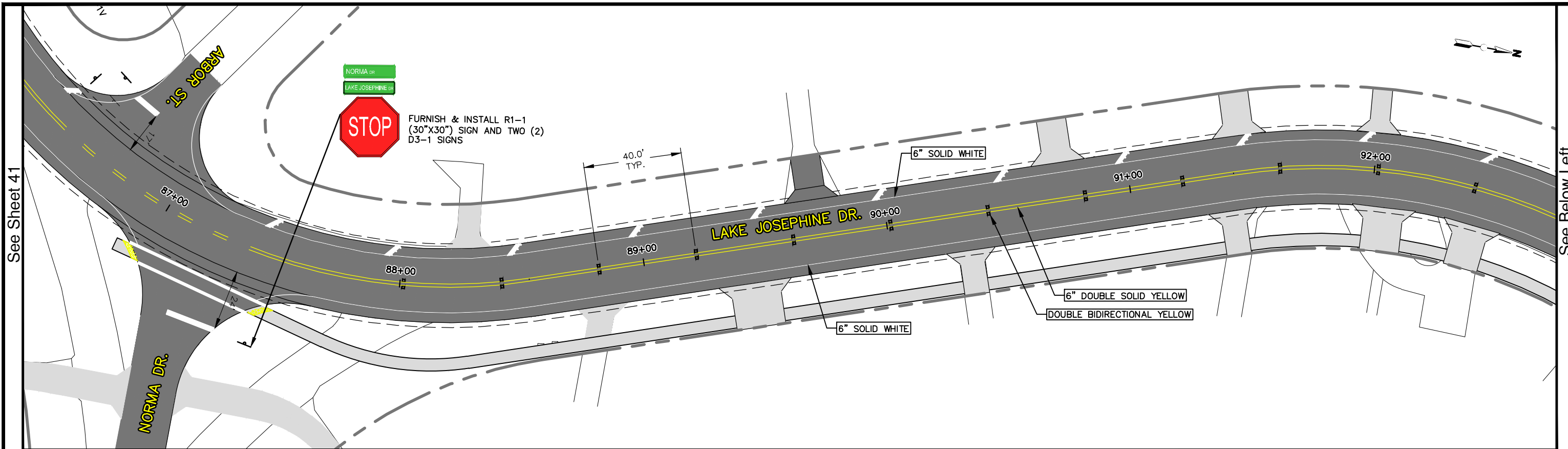




NOTE: SIGN HEIGHTS SHALL BE MINIMUM OF 7' TO A MAXIMUM OF 8' AS MEASURED FROM THE BOTTOM OF THE SIGN TO THE TOP OF THE CURB, OR IN THE ABSENCE OF CURB, MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE ELEVATION OF THE NEAR EDGE OF THE TRAVELED WAY.

REVISIONS			STATUS	DESIGNED BY: ELIUS F. NORTELUS, P.E.	DRAWN BY: KEITH BAKER, E.I.	CHECKED BY: KEITH BAKER, E.I.	IN CHARGE: ELIUS F. NORTELUS, P.E.	DATE: 5/9/2016	APPROVED BY: ELIUS F. NORTELUS, P.E.	DATE:	FLORIDA REGISTRATION NO.: 70092	SCALE: HORIZ. 1"=40' VERT. N/A	PROJECT NO. 13008	REV. 0
DATE	BY	DESCRIPTION												
			FOR BID	<b>HIGHLANDS COUNTY ENGINEERING DEPARTMENT</b> 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870					<b>LAKE JOSEPHINE DRIVE IMPROVEMENTS SIGN &amp; PAVEMENT MARKING PLAN</b>			SHEET 41 OF 71		

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NOTE: SIGN HEIGHTS SHALL BE MINIMUM OF 7' TO A MAXIMUM OF 8' AS MEASURED FROM THE BOTTOM OF THE SIGN TO THE TOP OF THE CURB, OR IN THE ABSENCE OF CURB, MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE ELEVATION OF THE NEAR EDGE OF THE TRAVELED WAY.

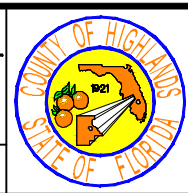
REVISIONS		STATUS
DATE	DESCRIPTION	
		<b>FOR BID</b>

DESIGNED BY:  
ELIUS F. NORTELUS, P.E.  
DRAWN BY:  
KEITH BAKER, E.I.  
CHECKED BY:  
KEITH BAKER, E.I.  
IN CHARGE:  
ELIUS F. NORTELUS, P.E.  
DATE:  
5/9/2016

**HIGHLANDS COUNTY  
ENGINEERING DEPARTMENT**  
505 S. COMMERCE AVENUE  
SEBRING, FLORIDA 33870

APPROVED BY: ELIUS F. NORTELUS, P.E.  
FLORIDA REGISTRATION NO.: 70092

DATE:

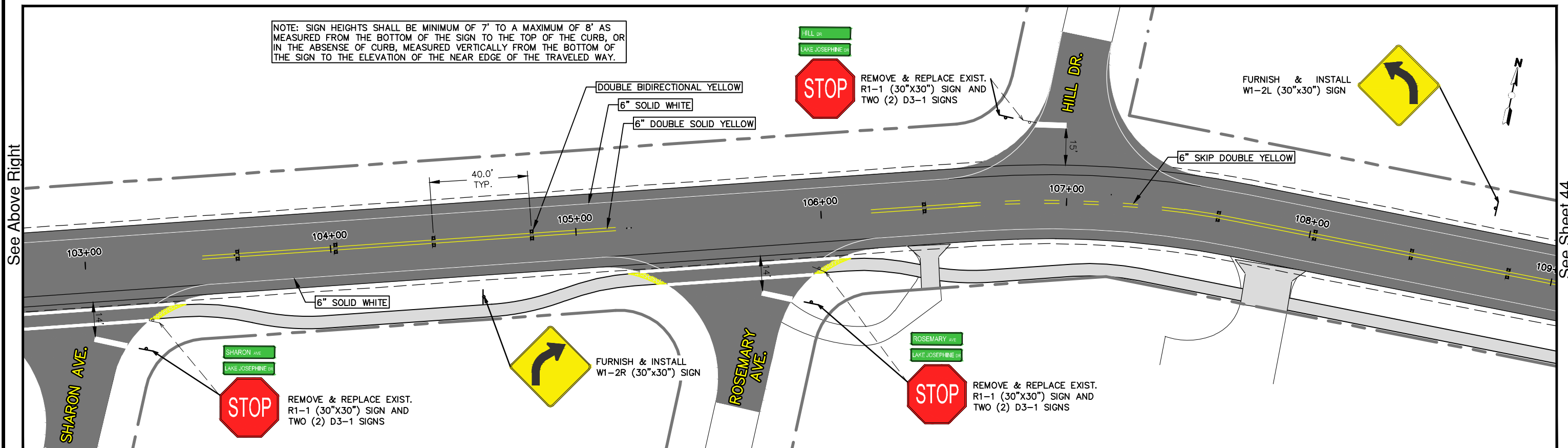
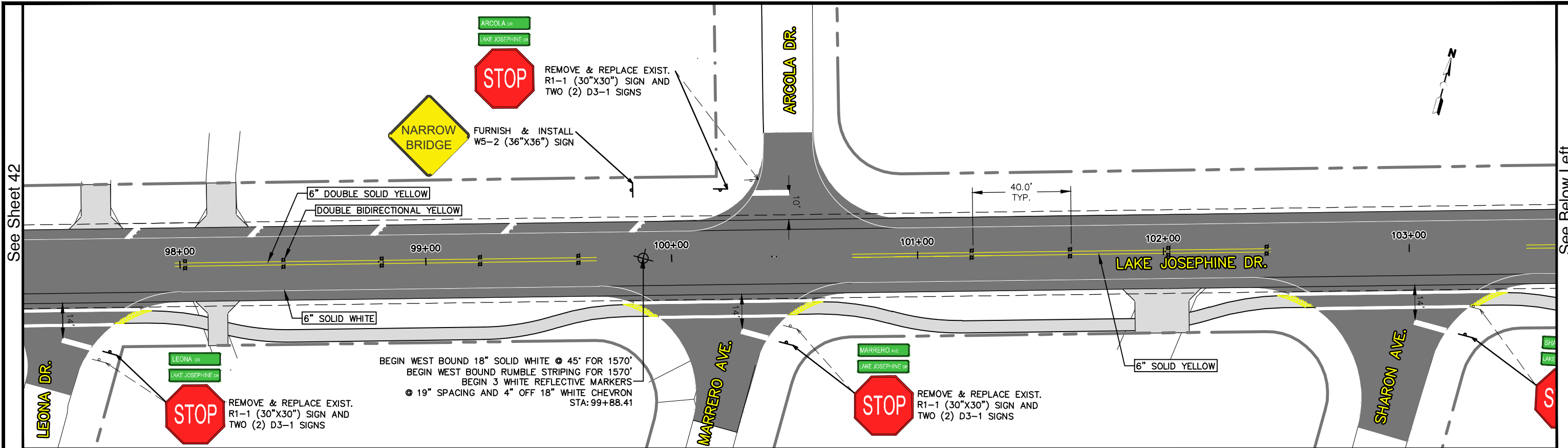


**LAKE JOSEPHINE DRIVE  
IMPROVEMENTS  
SIGN & PAVEMENT MARKING PLAN**

SCALE:  
HORIZ. 1"=40'  
VERT. N/A

PROJECT NO. 13008    REV. 0

SHEET 42 OF 71



REVISIONS		STATUS	DESIGNED BY: ELIUS F. NORTELUS, P.E.	HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870	APPROVED BY: ELIUS F. NORTELUS, P.E. FLORIDA REGISTRATION NO.: 70092	DATE: 5/9/2016	SCALE: HORIZ. 1"=40' VERT. N/A	PROJECT NO. 13008	REV. 0
DATE	BY								

FOR BID

DATE: 5/9/2016

DATE:

SCALE: HORIZ. 1"=40'  
VERT. N/A

PROJECT NO. 13008

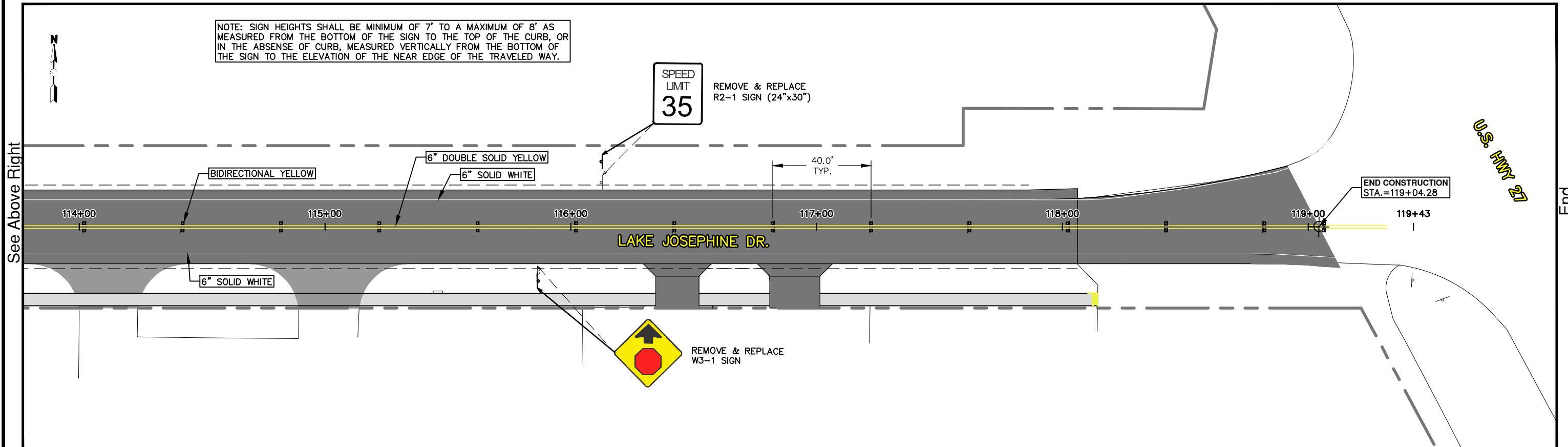
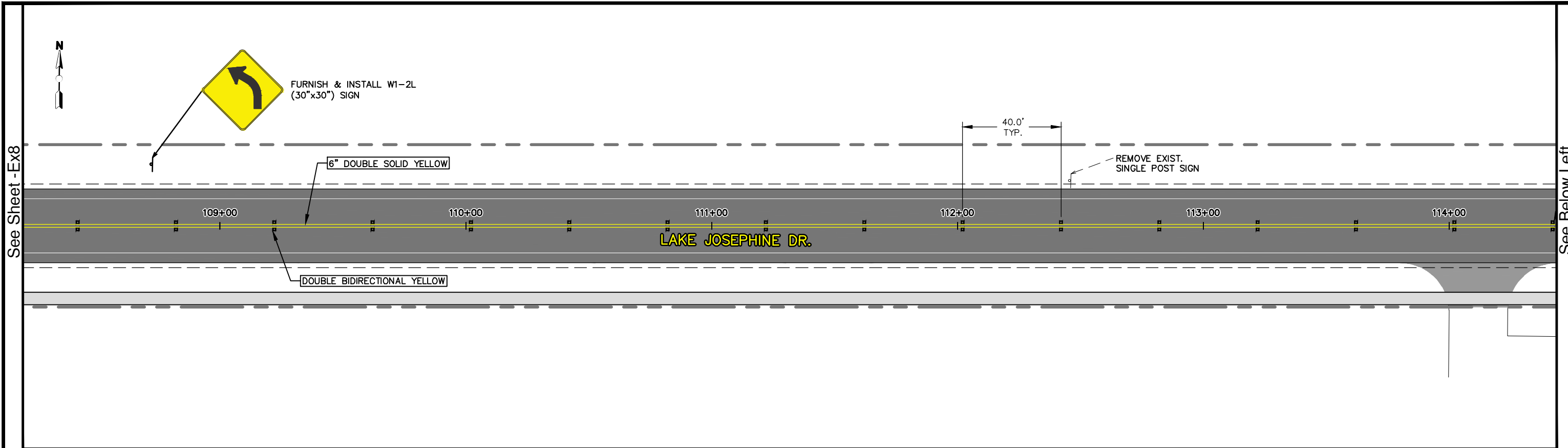
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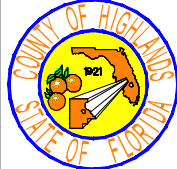
SHEET 43 OF 71

LAKE JOSEPHINE DRIVE  
IMPROVEMENTS  
SIGN & PAVEMENT MARKING PLAN

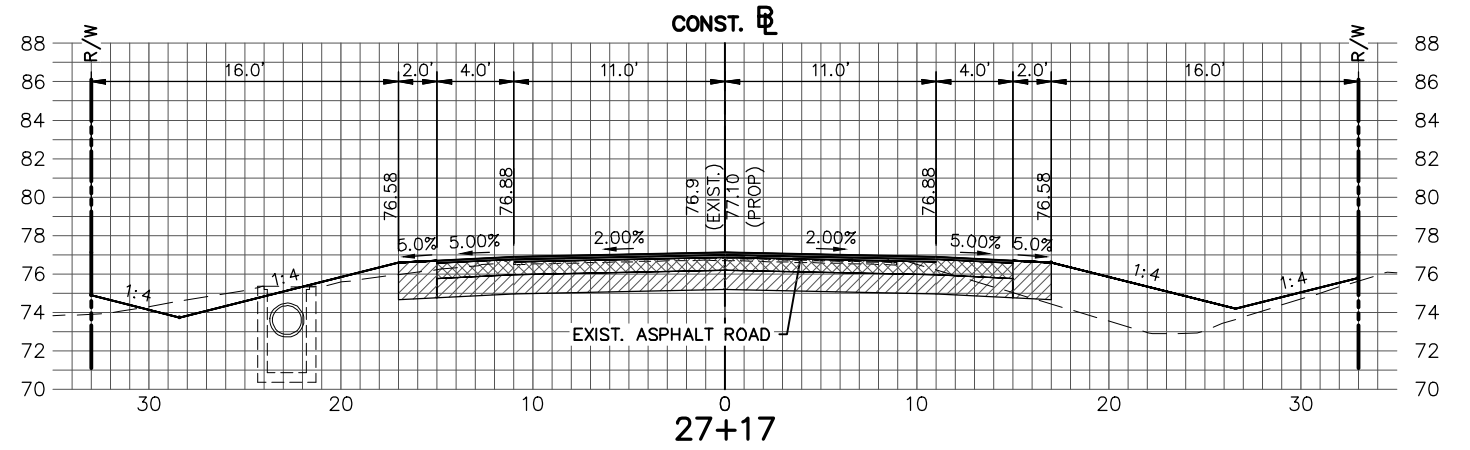
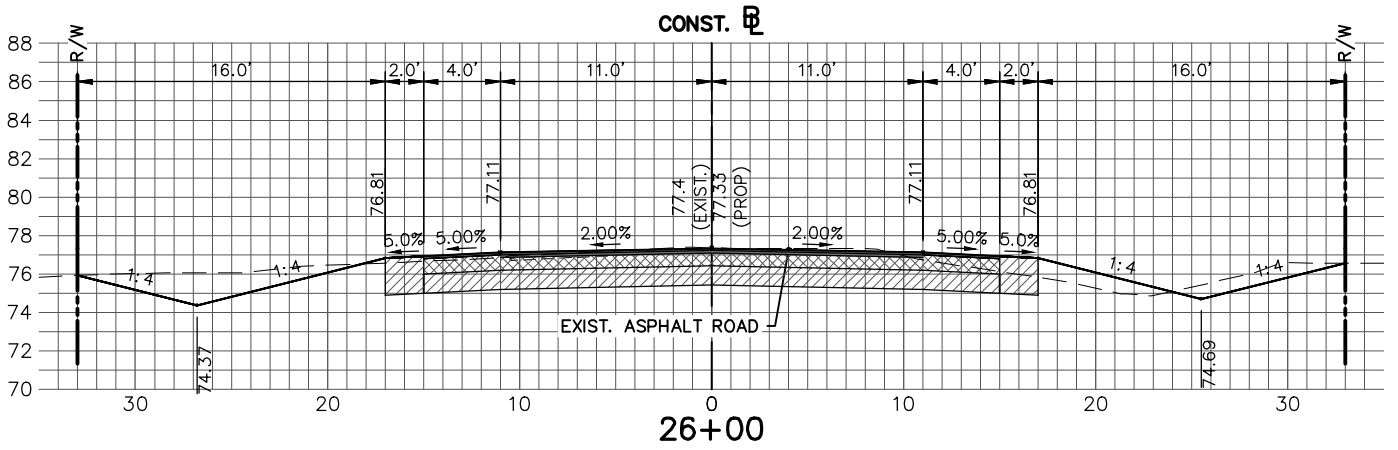
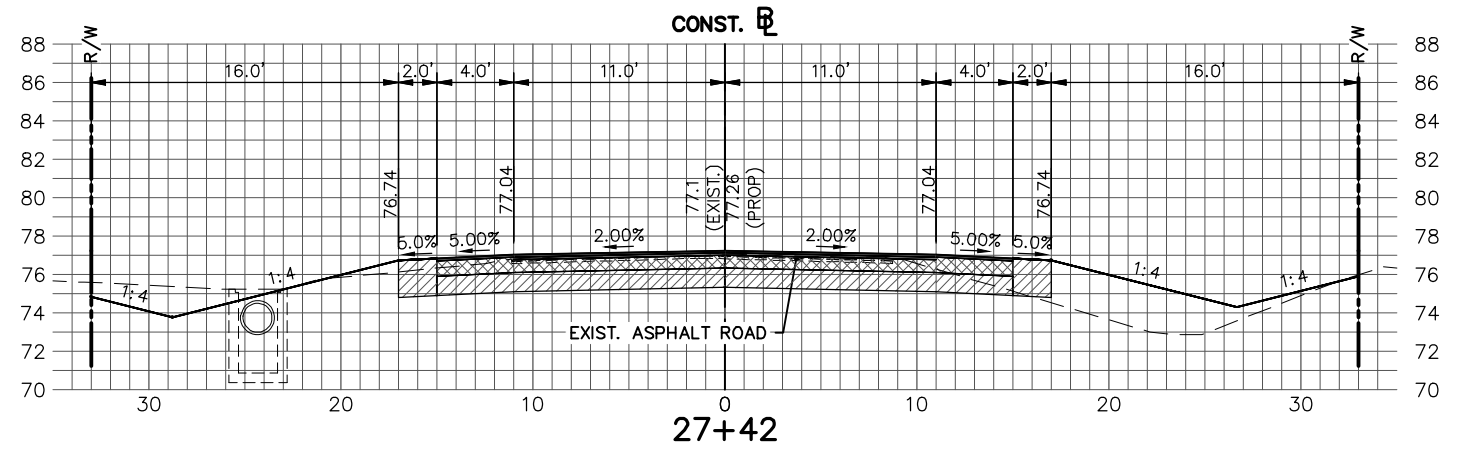
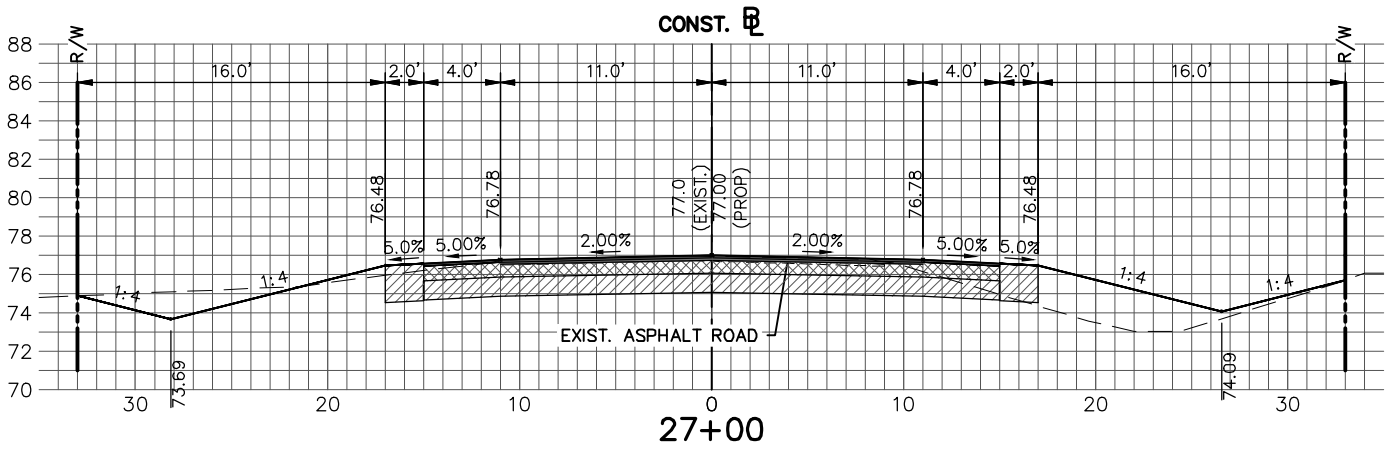
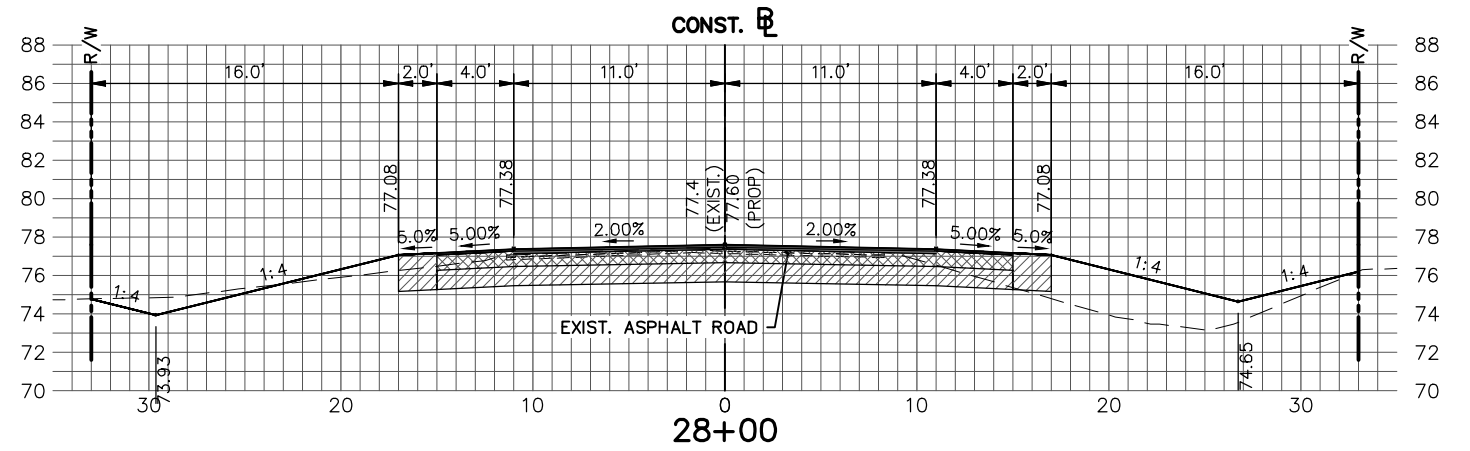
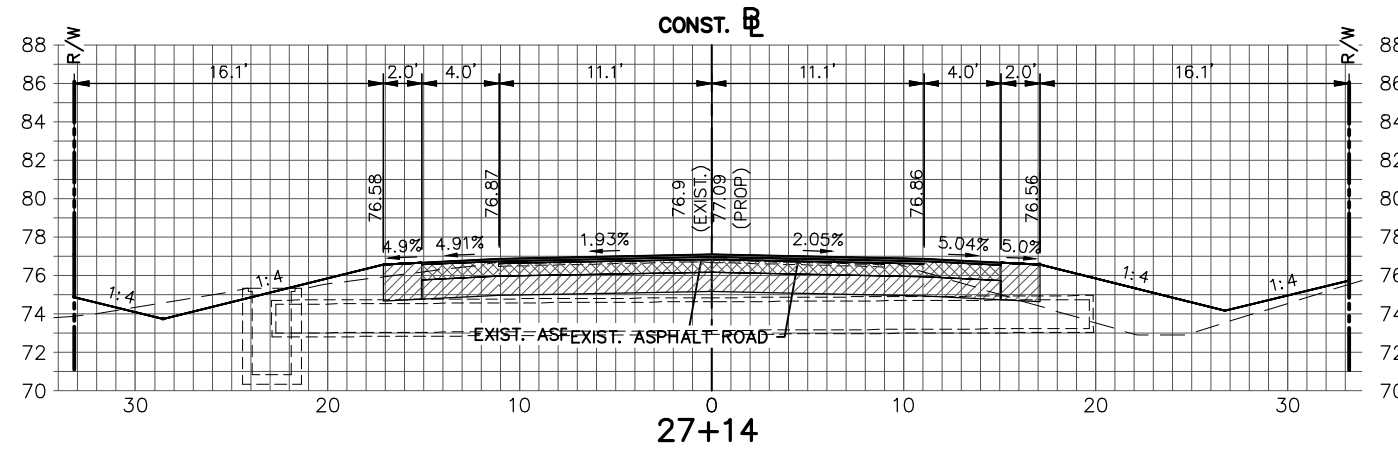
COUNTY OF HIGHLANDS  
STATE OF FLORIDA

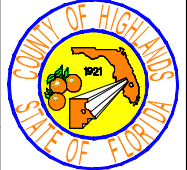
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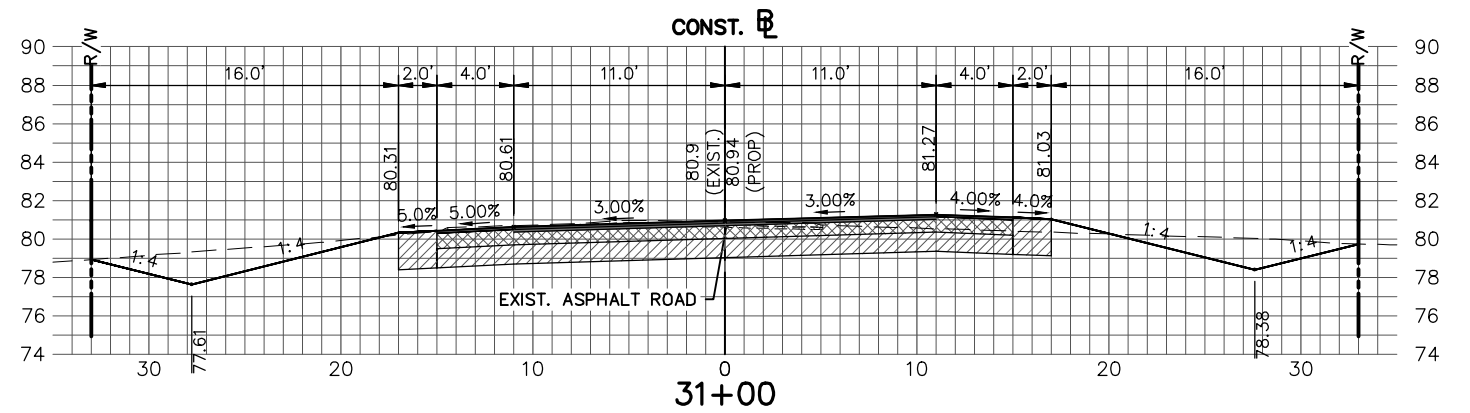
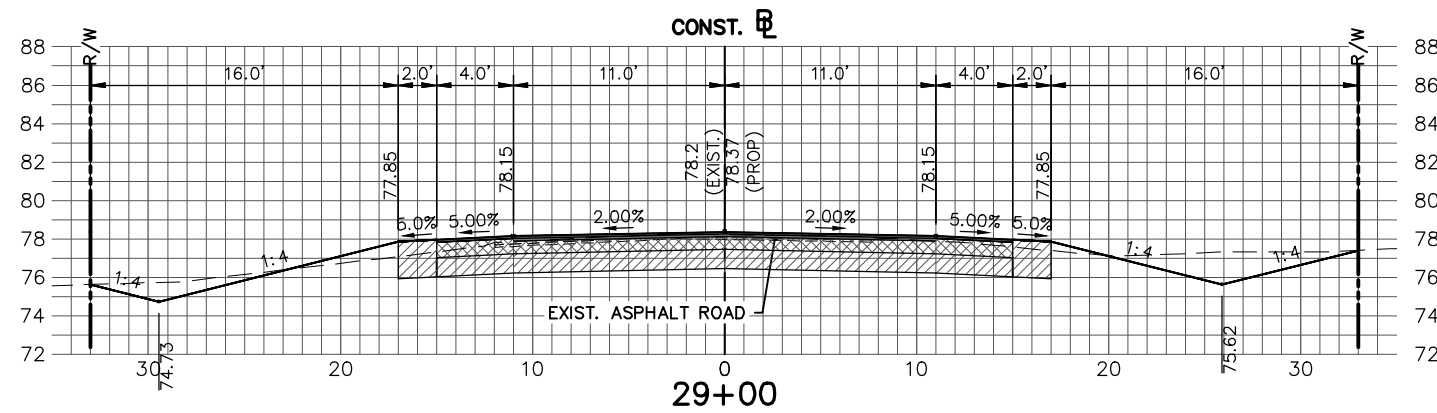
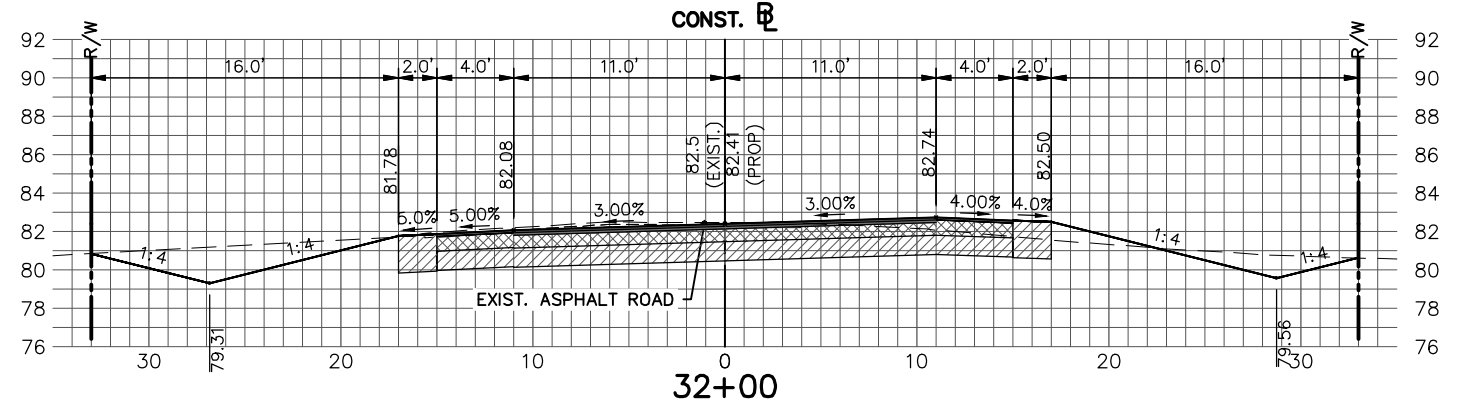
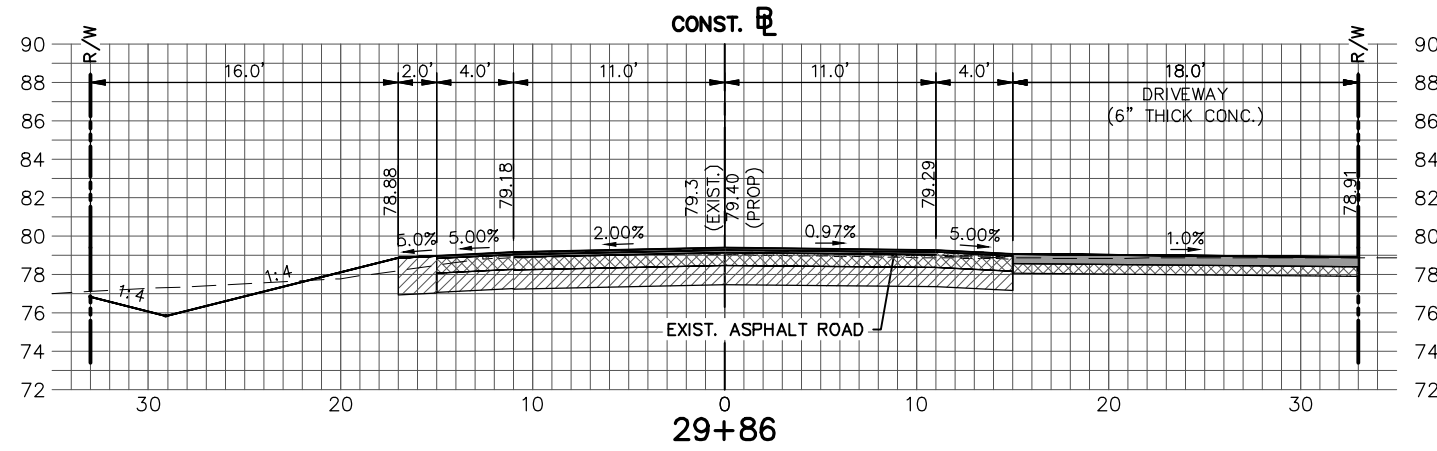
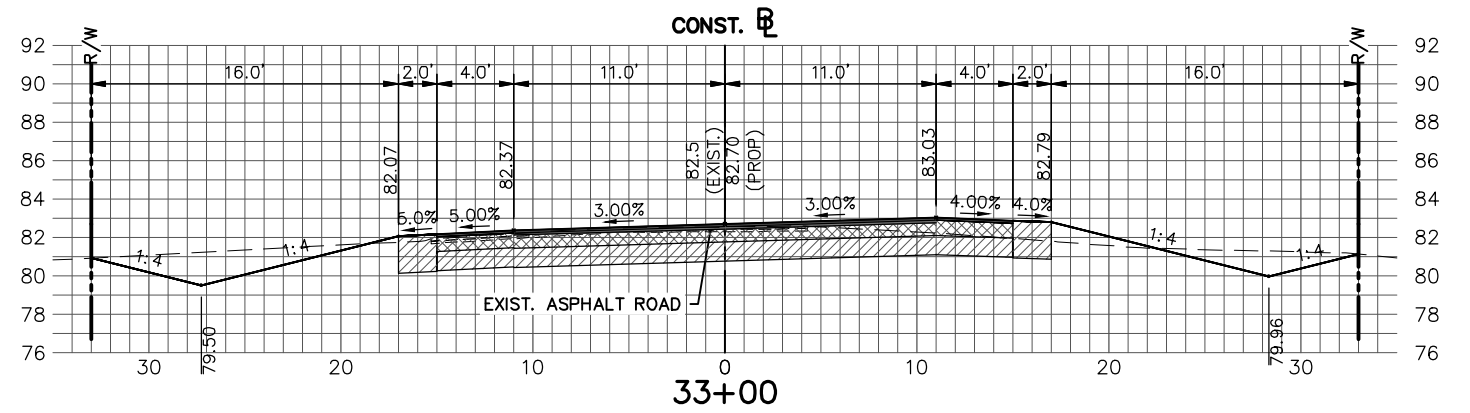
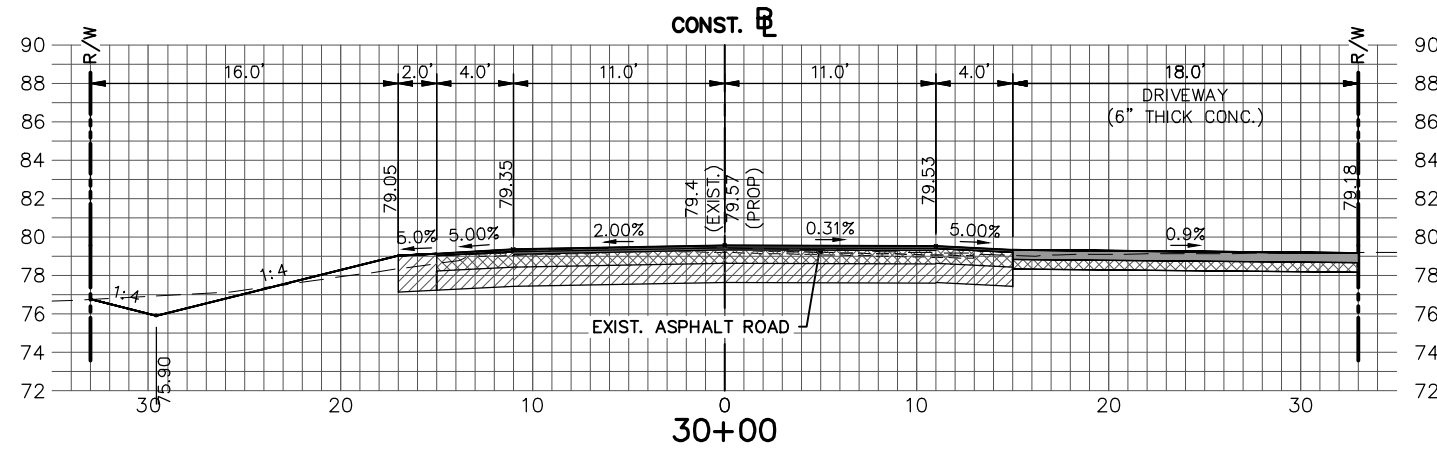


REVISIONS			STATUS	DESIGNED BY: ELIUS F. NORTELUS, P.E.	DRAWN BY: KEITH BAKER, E.I.	CHECKED BY: KEITH BAKER, E.I.	IN CHARGE: ELIUS F. NORTELUS, P.E.	DATE: 5/9/2016	APPROVED BY: ELIUS F. NORTELUS, P.E.	DATE:	FLORIDA REGISTRATION NO.: 70092	SCALE: HORIZ. 1"=40' VERT. N/A	PROJECT NO. 13008	REV. 0
DATE	BY	DESCRIPTION												
			FOR BID	<b>HIGHLANDS COUNTY ENGINEERING DEPARTMENT</b> 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870					<b>LAKE JOSEPHINE DRIVE IMPROVEMENTS</b> SIGN & PAVEMENT MARKING PLAN			SHEET 44 OF 71		

G:\PROJECTS\2013\13008 Lake Josephine Drive Resurfacing\Drawings\Full Depth Reconstruction Option\Signage & Pavement Marking Plan Sheet -109+14.00.dwg, Plan Sheet -109+14.00, Baker, Keith J. Acad 1-7 Black.ctb



REVISIONS			STATUS		<b>HIGHLANDS COUNTY</b> <b>ENGINEERING DEPARTMENT</b> 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870		SCALE:			
DATE	BY	DESCRIPTION	<div style="font-size: 2em; color: red; font-weight: bold;">FOR BID</div>				HORIZ. 1"=10'	VERT. 1"=10'		
									PROJECT NO. 13008	REV. 0
									LAKE JOSEPHINE DRIVE IMPROVEMENTS CROSS SECTIONS	
DESIGNED BY: ELIUS F. NORTELUS, P.E. DRAWN BY: DOUG NIETUBICZ CHECKED BY: KEITH BAKER, E.I. IN CHARGE: ELIUS F. NORTELUS, P.E. DATE: 10/27/2016					APPROVED BY: ELIUS F. NORTELUS, P.E. FLORIDA REGISTRATION NO.: 70092		SHEET 45 OF 71			

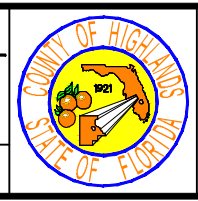


REVISIONS			STATUS
DATE	BY	DESCRIPTION	
			<b>FOR BID</b>

DESIGNED BY: ELIUS F. NORTELUS, P.E.  
 DRAWN BY: DOUG NIETUBICZ  
 CHECKED BY: KEITH BAKER, E.I.  
 IN CHARGE: ELIUS F. NORTELUS, P.E.  
 DATE: 12/2/2016

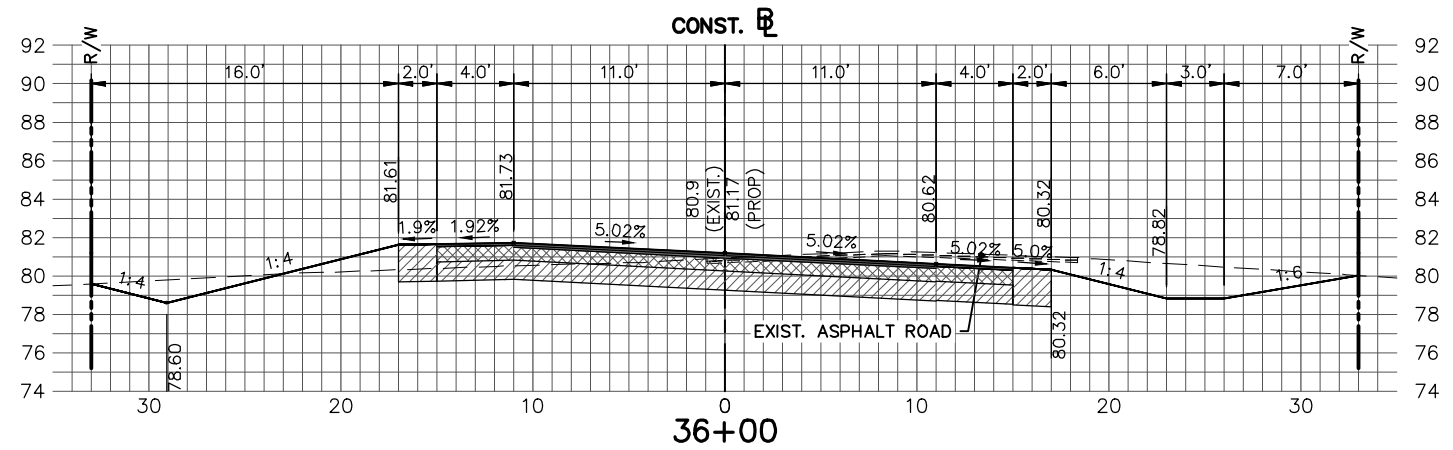
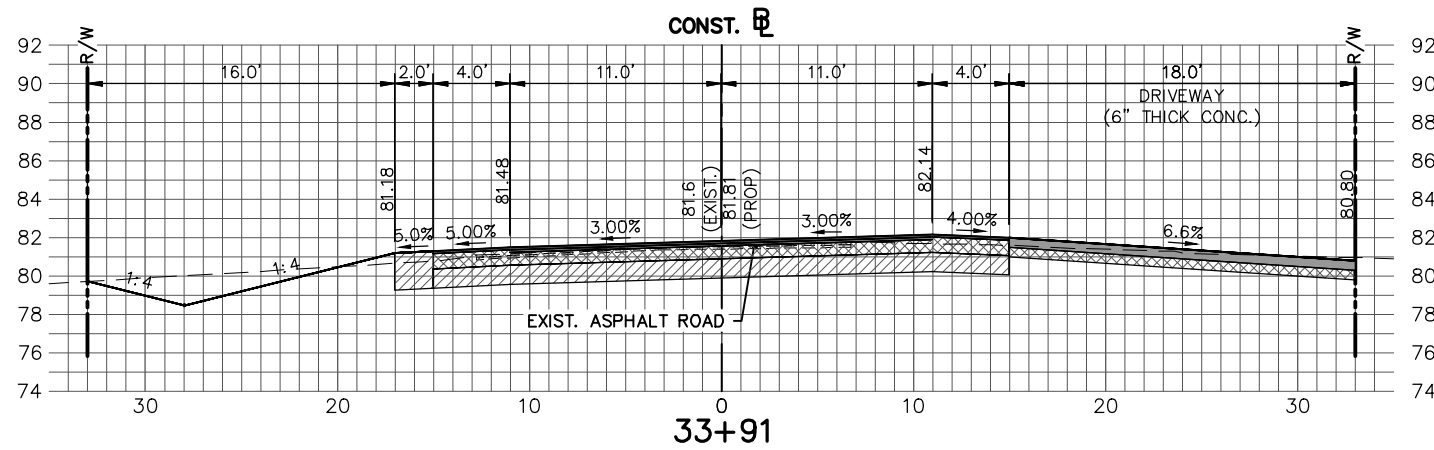
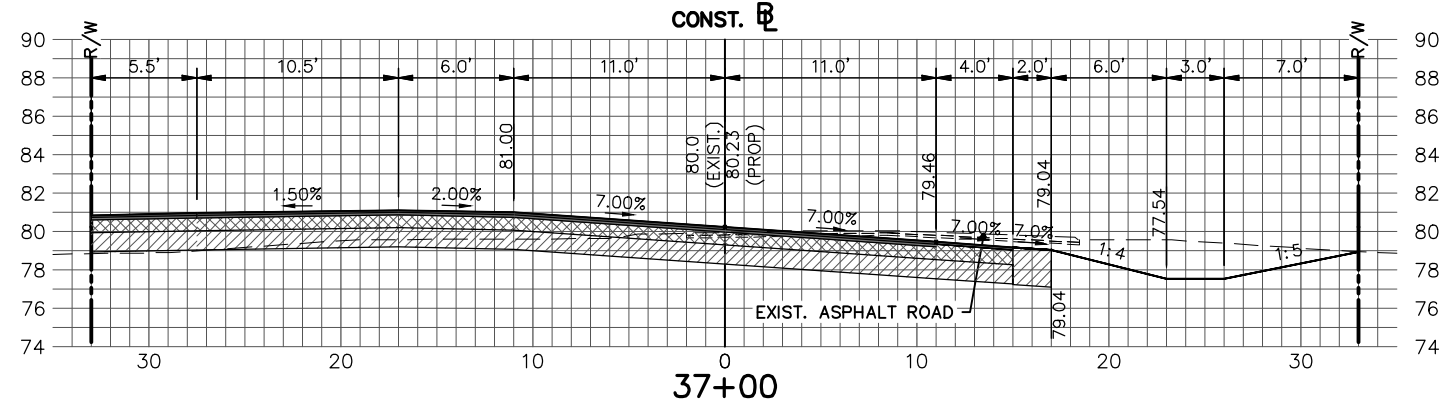
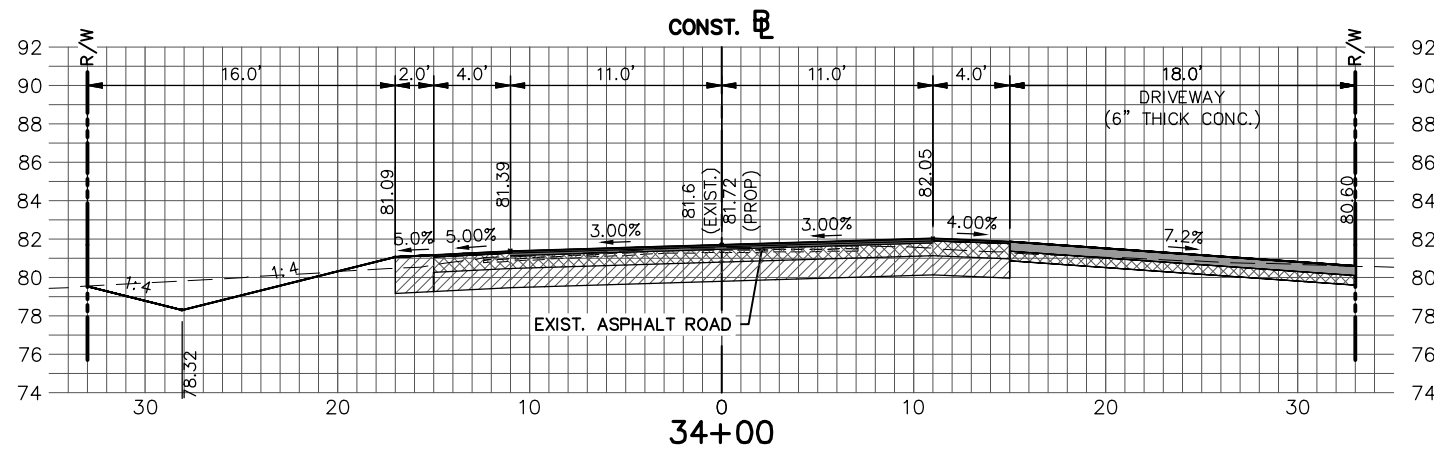
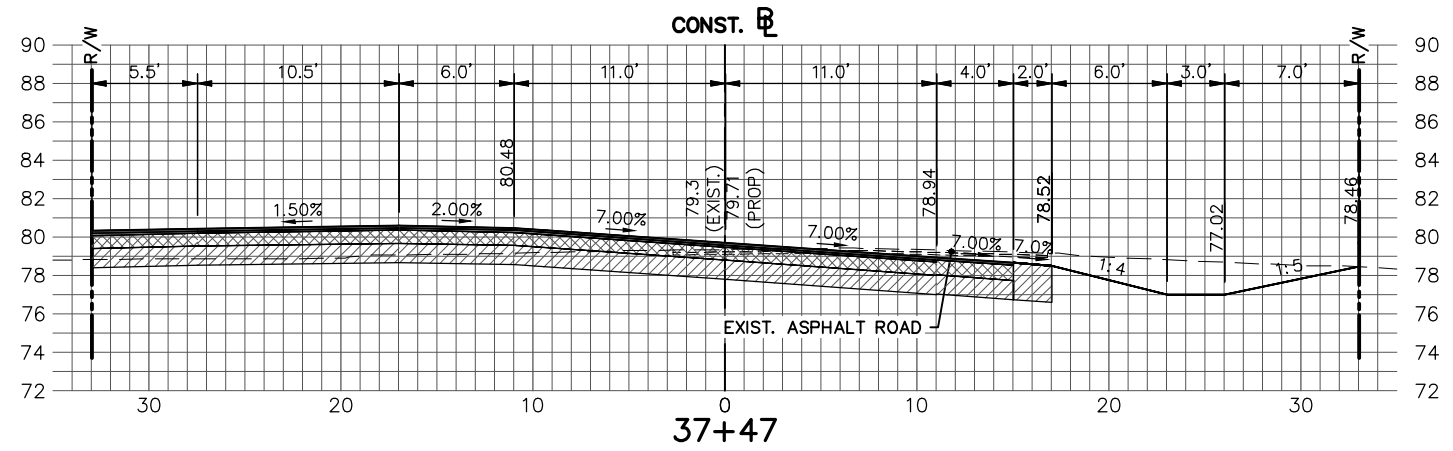
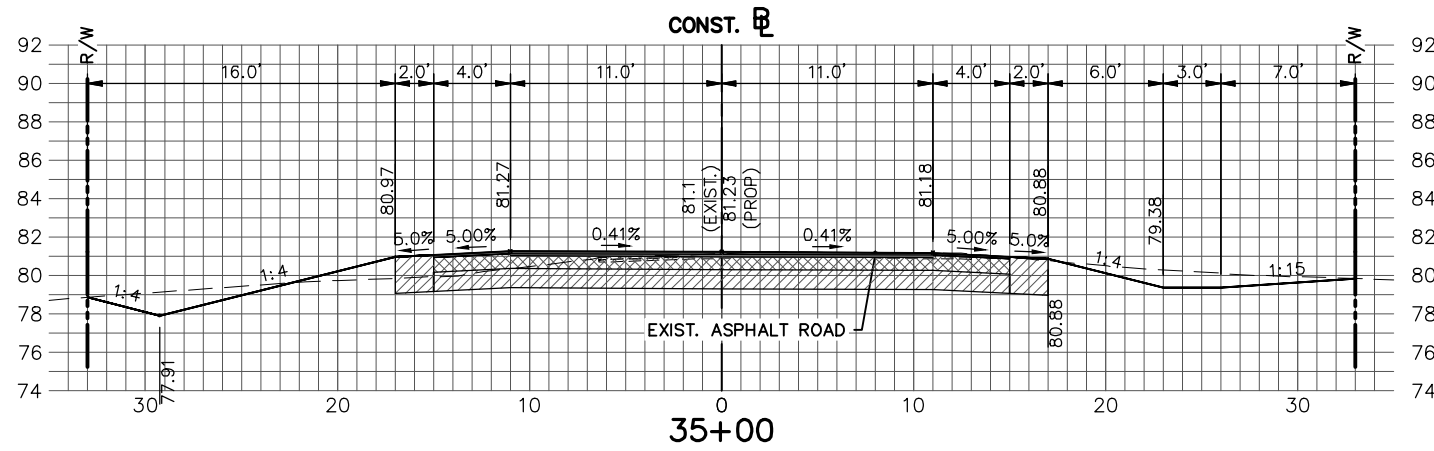
**HIGHLANDS COUNTY**  
**ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870

APPROVED BY: ELIUS F. NORTELUS, P.E.  
 FLORIDA REGISTRATION NO.: 70092



**LAKE JOSEPHINE DRIVE**  
**IMPROVEMENTS**  
**CROSS SECTIONS**

SCALE:  
 HORIZ. 1"=10'  
 VERT. 1"=10'  
 PROJECT NO. 13008  
 REV. 0  
 SHEET 46 OF 71



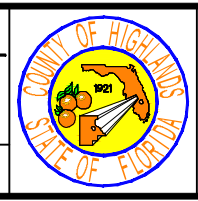
REVISIONS		STATUS
DATE	BY	
		<b>FOR BID</b>

DESIGNED BY: ELIUS F. NORTELUS, P.E.  
 DRAWN BY: DOUG NIETUBICZ  
 CHECKED BY: KEITH BAKER, E.I.  
 IN CHARGE: ELIUS F. NORTELUS, P.E.

**HIGHLANDS COUNTY  
 ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870

APPROVED BY: ELIUS F. NORTELUS, P.E.  
 FLORIDA REGISTRATION NO.: 70092

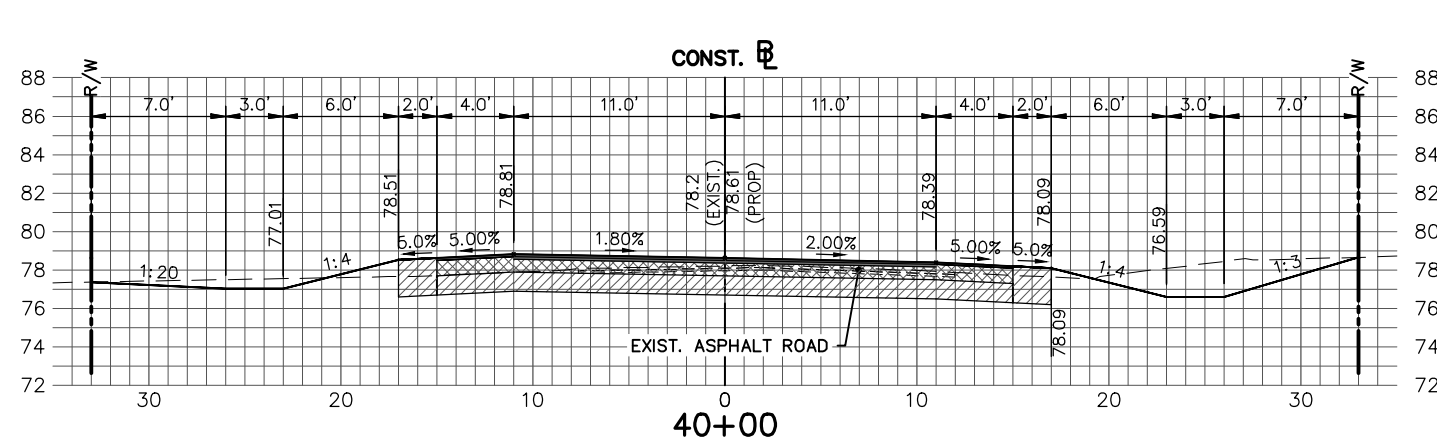
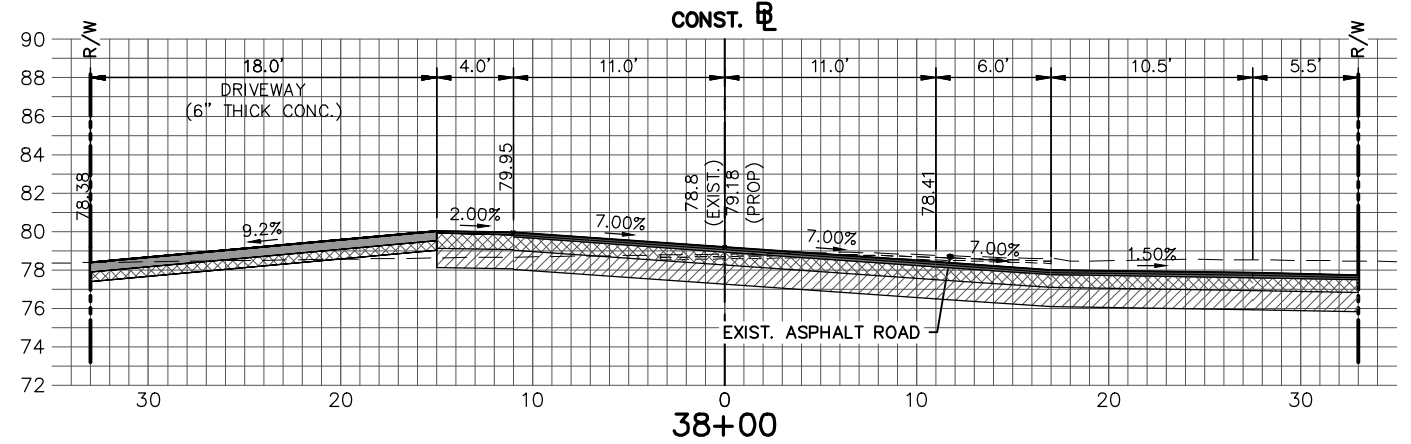
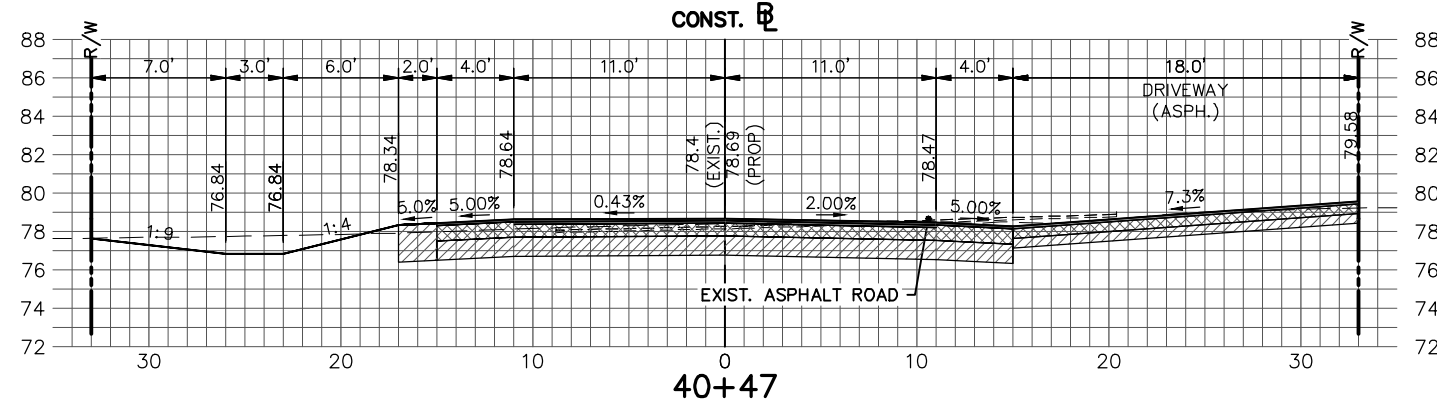
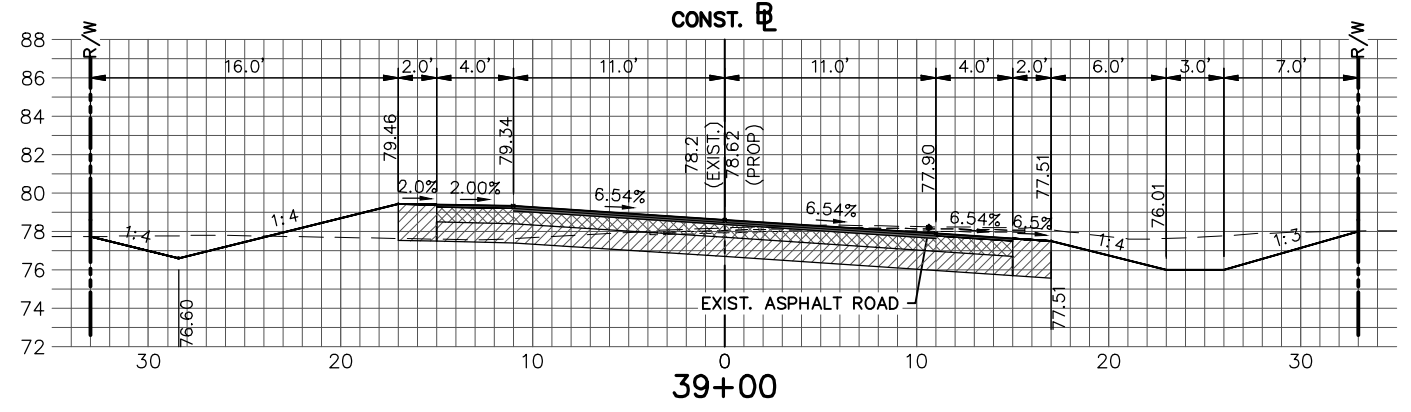
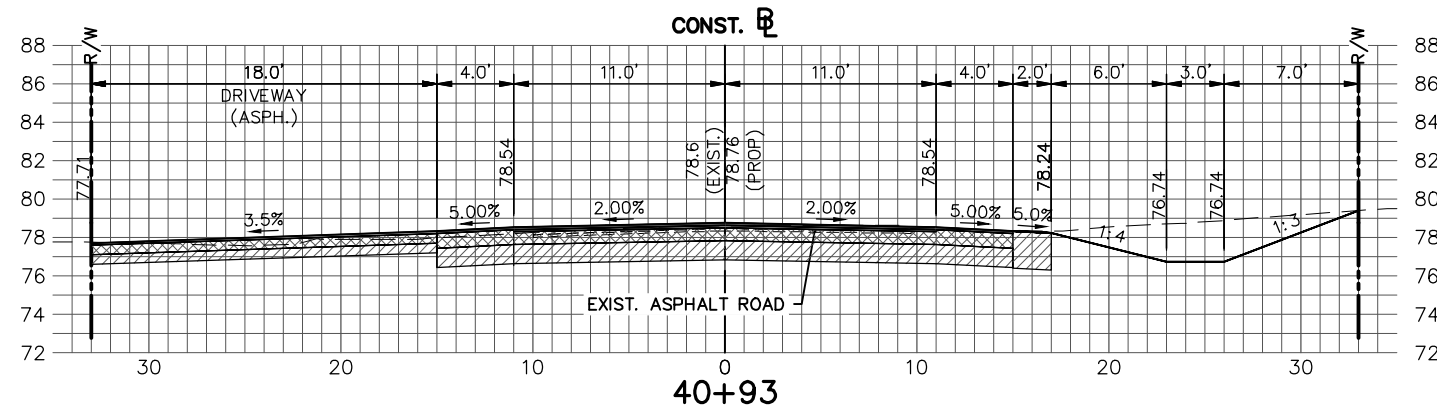
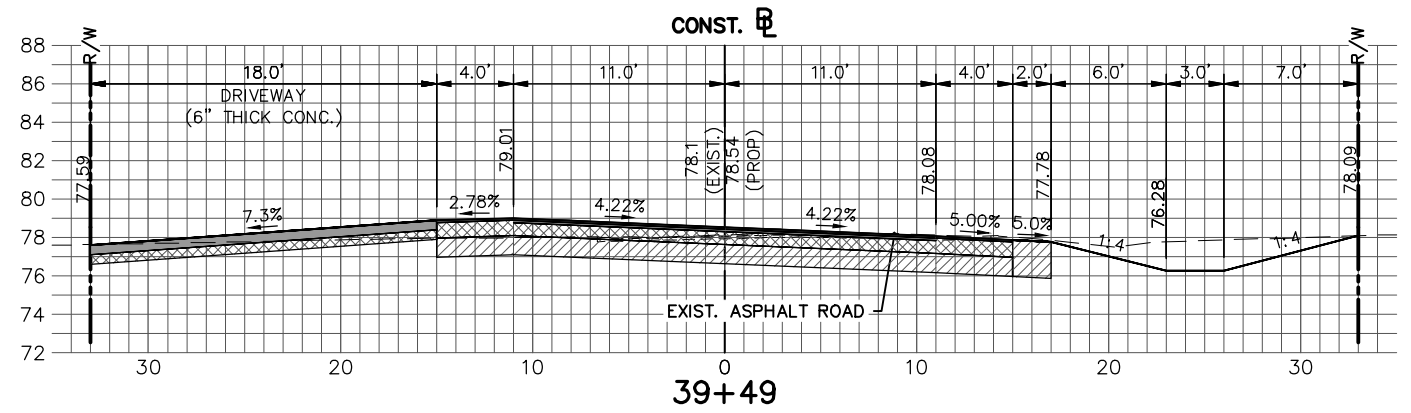
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**LAKE JOSEPHINE DRIVE  
 IMPROVEMENTS**

**CROSS SECTIONS**

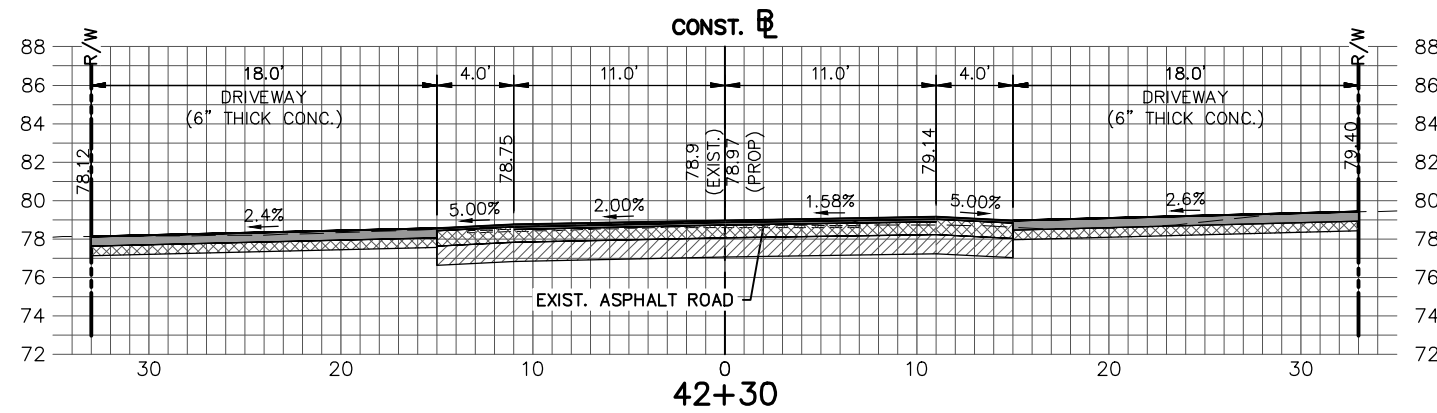
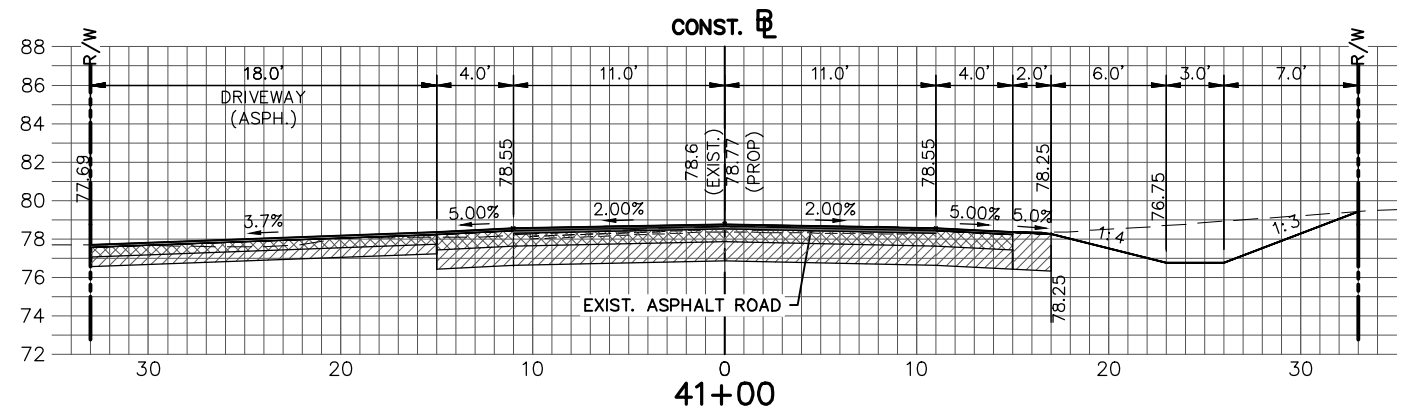
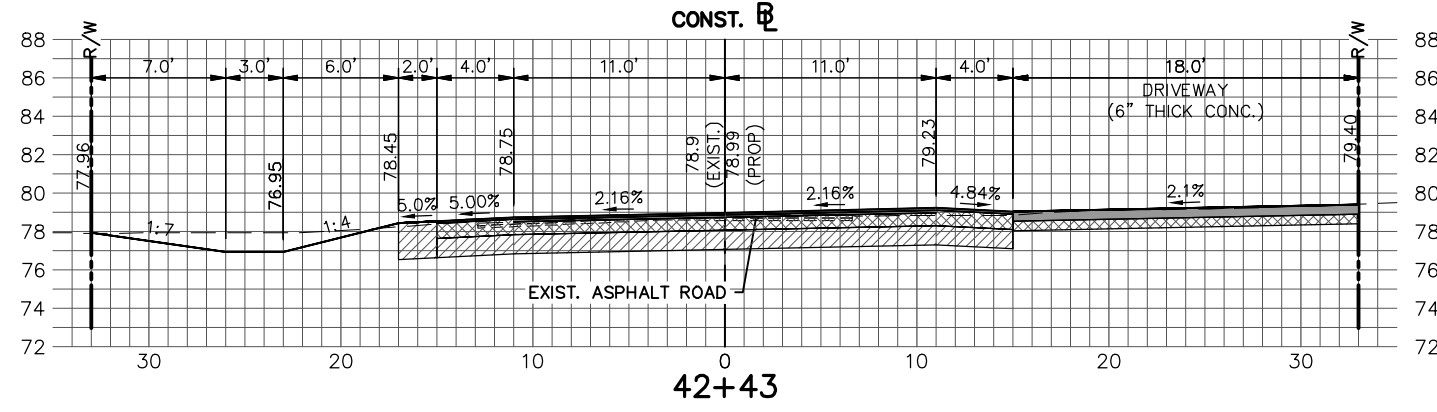
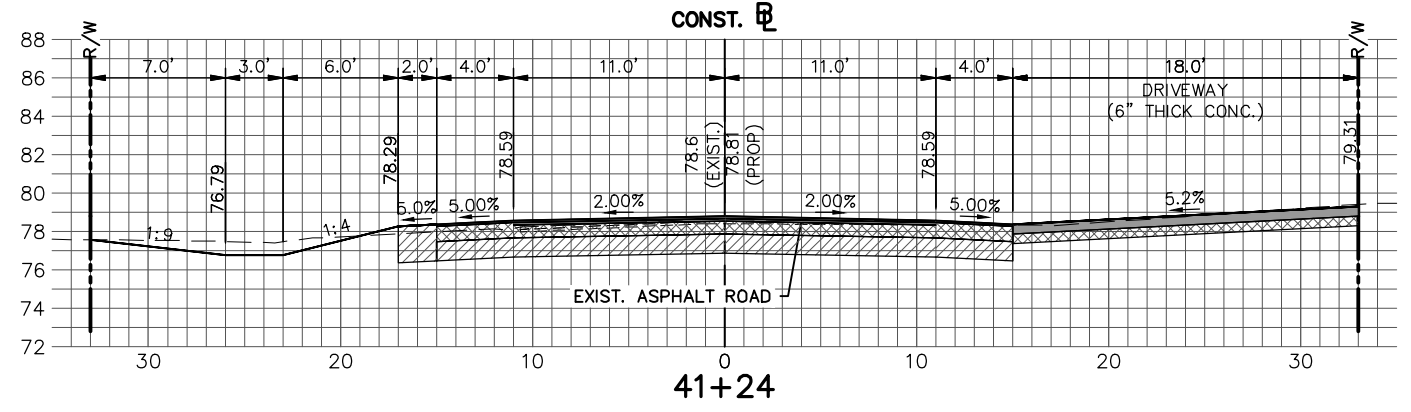
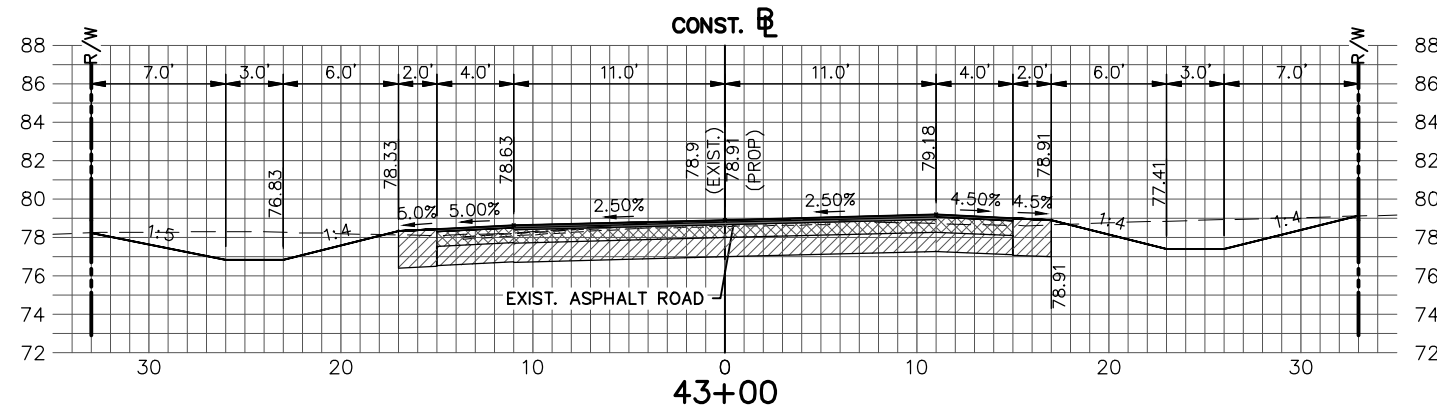
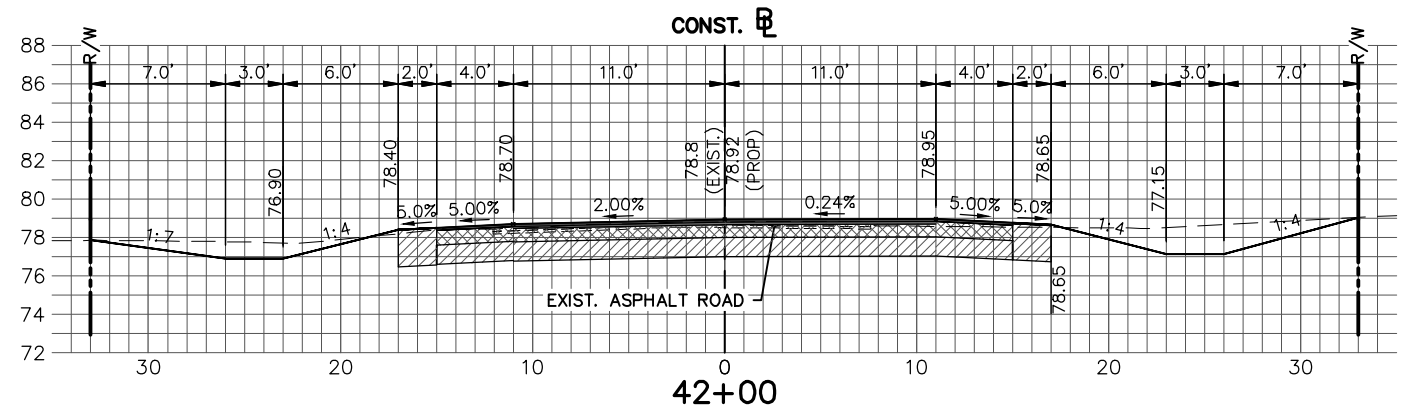
SCALE: HORIZ. 1"=10' VERT. 1"=10'	
PROJECT NO. 13008	REV. 0
SHEET 47 OF 71	



REVISIONS			STATUS		<b>FOR BID</b>	<b>DESIGNED BY:</b> ELIUS F. NORTELUS, P.E. <b>DRAWN BY:</b> DOUG NIETUBICZ <b>CHECKED BY:</b> KEITH BAKER, E.I. <b>IN CHARGE:</b> ELIUS F. NORTELUS, P.E. <b>DATE:</b> 6/9/2016	<b>HIGHLANDS COUNTY</b> <b>ENGINEERING DEPARTMENT</b> 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870		<b>LAKE JOSEPHINE DRIVE</b> <b>IMPROVEMENTS</b> <b>CROSS SECTIONS</b>	SCALE: HORIZ. 1"=10' VERT. 1"=10' PROJECT NO. 13008 REV. 0
DATE	BY	DESCRIPTION								
SHEET 48 OF 71										

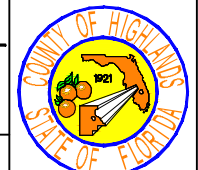
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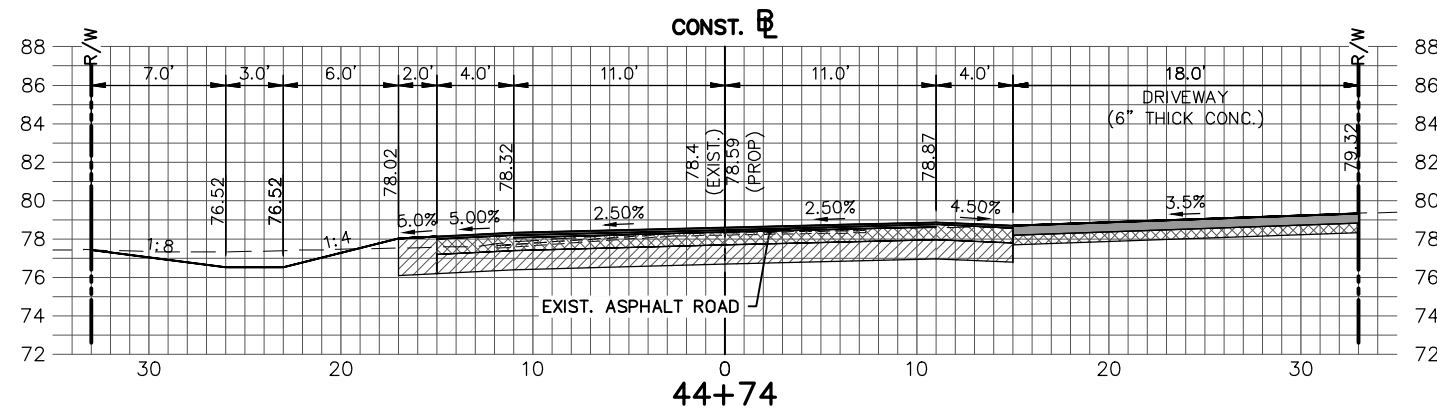
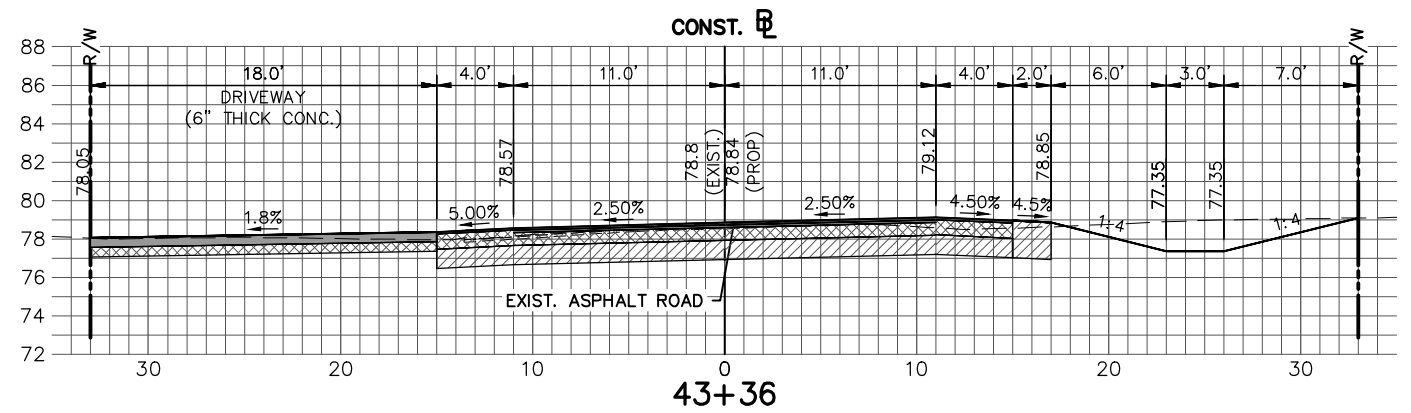
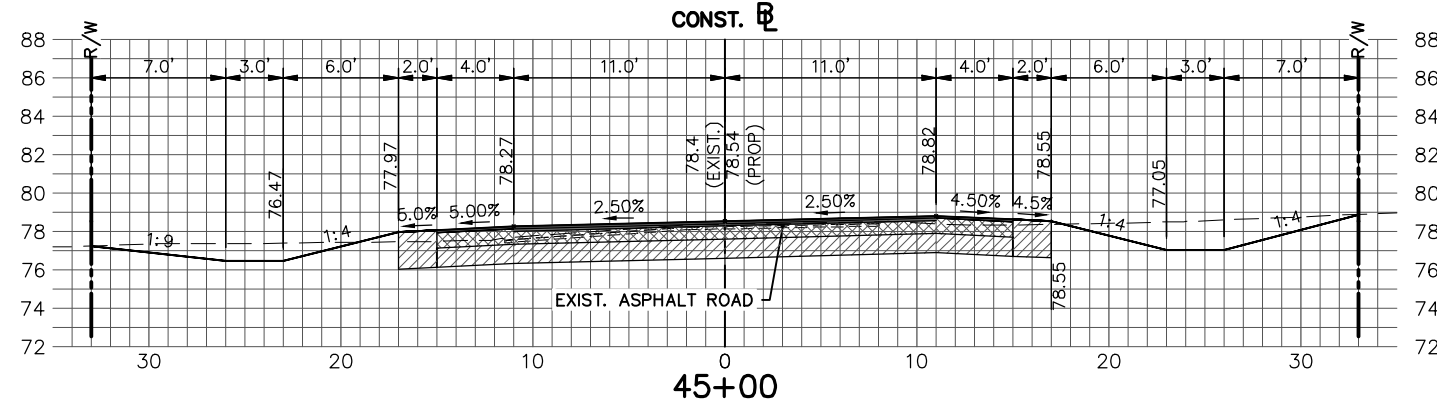
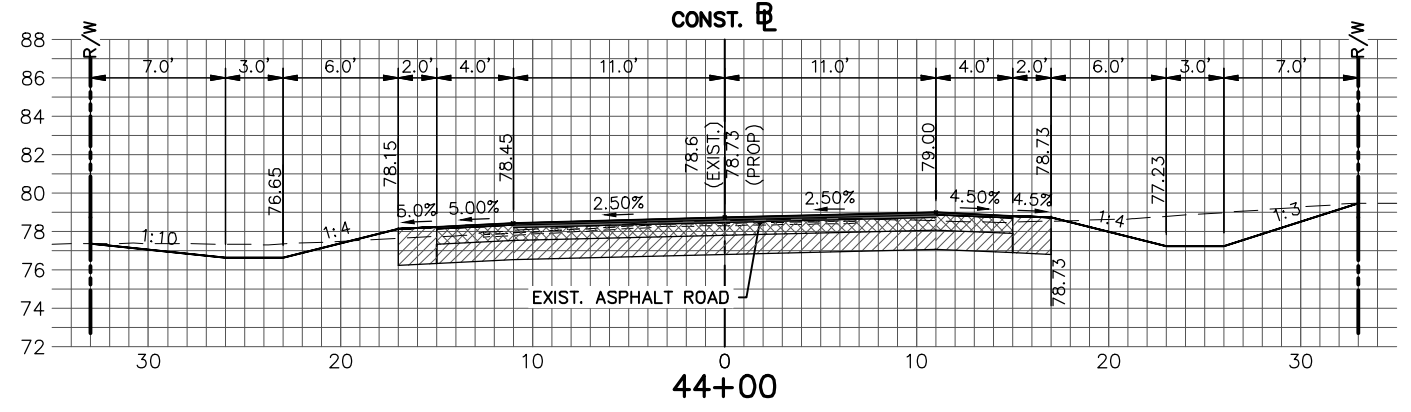
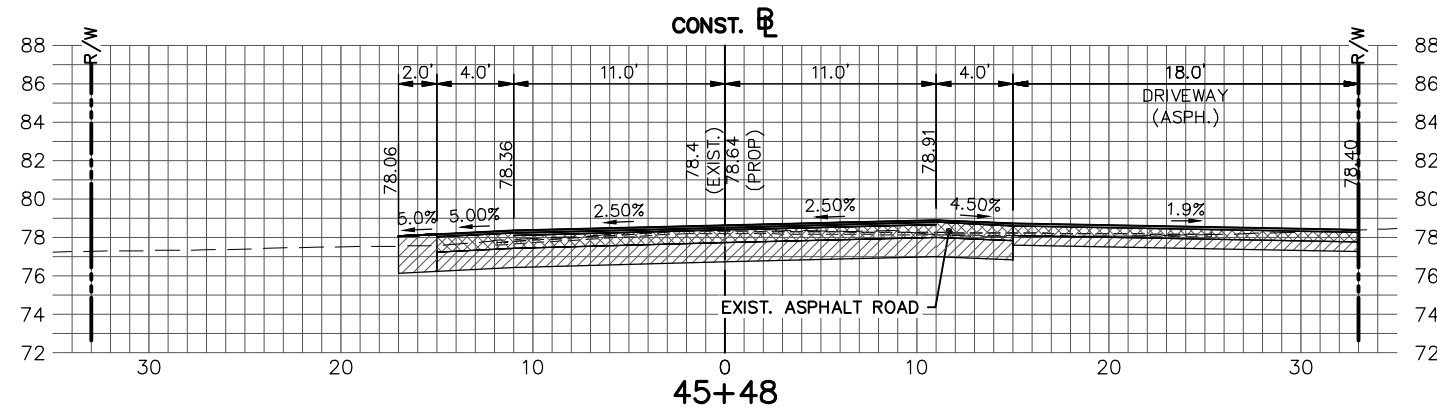
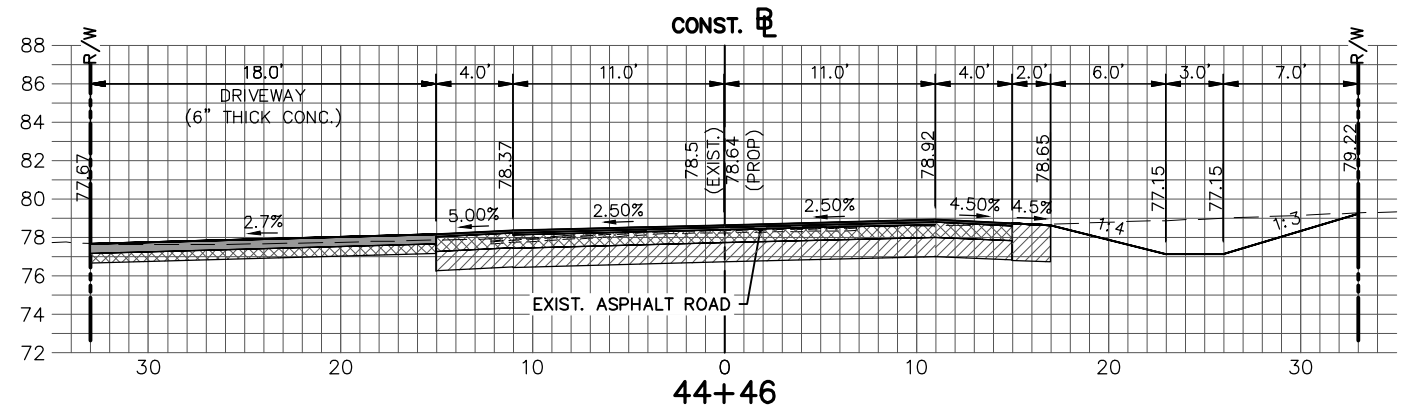


REVISIONS			STATUS		DESIGNED BY: ELIUS F. NORTELUS, P.E.	DRAWN BY: DOUG NIETUBICZ	CHECKED BY: KEITH BAKER, E.I.	IN CHARGE: ELIUS F. NORTELUS, P.E.	DATE: 12/2/2016	APPROVED BY: ELIUS F. NORTELUS, P.E.	FLORIDA REGISTRATION NO.: 70092	DATE:	SCALE: HORIZ. 1"=10' VERT. 1"=10'	PROJECT NO. 13008	REV. 0
DATE	BY	DESCRIPTION	FOR BID												

**HIGHLANDS COUNTY**  
**ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870

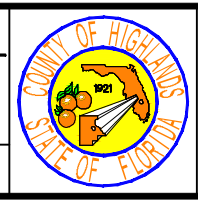


**LAKE JOSEPHINE DRIVE**  
**IMPROVEMENTS**  
**CROSS SECTIONS**



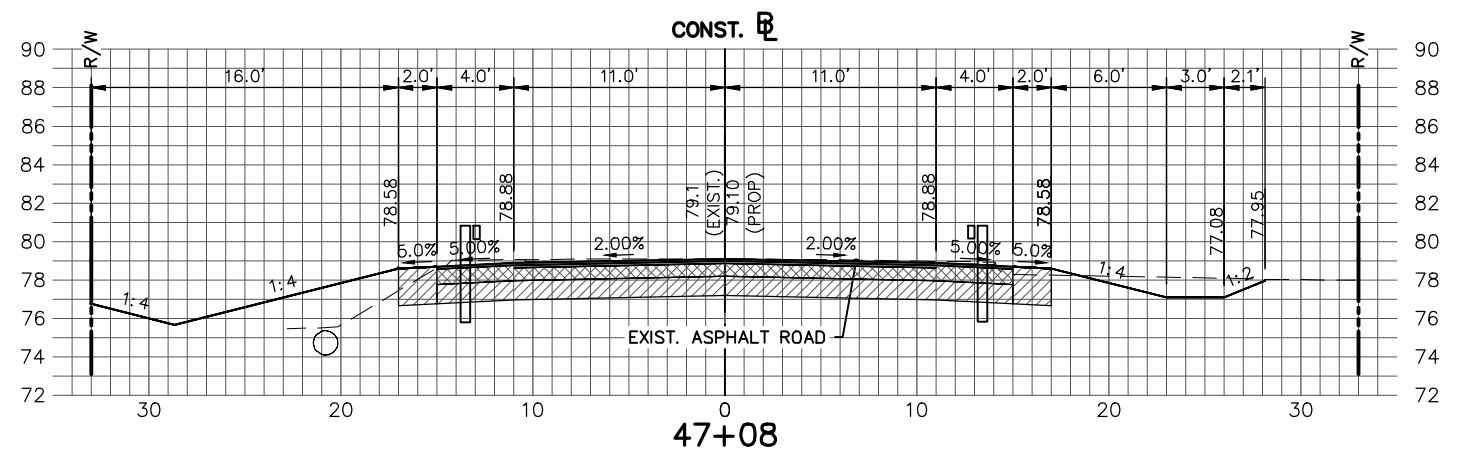
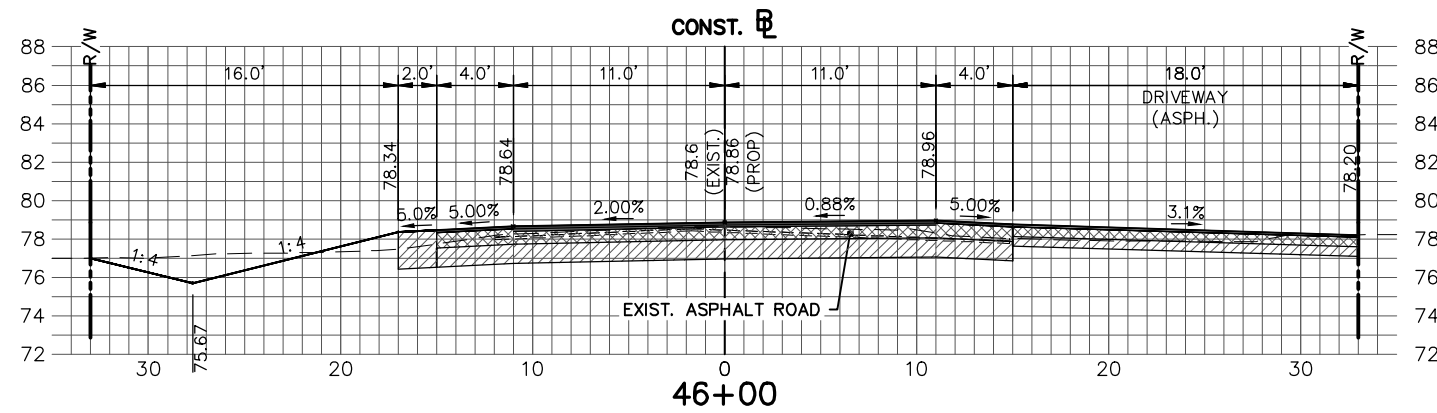
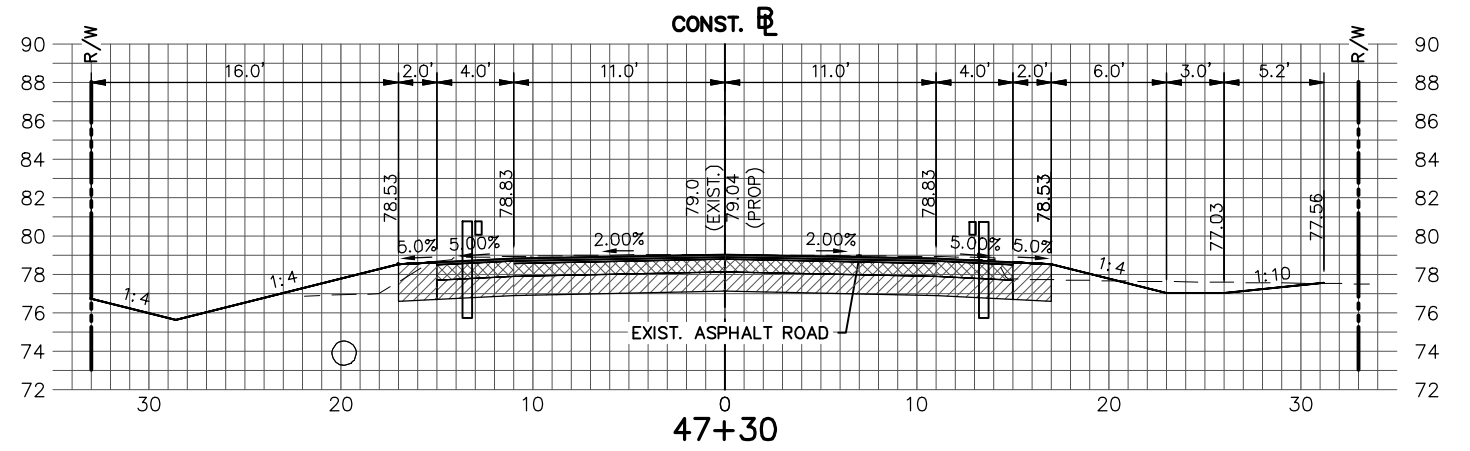
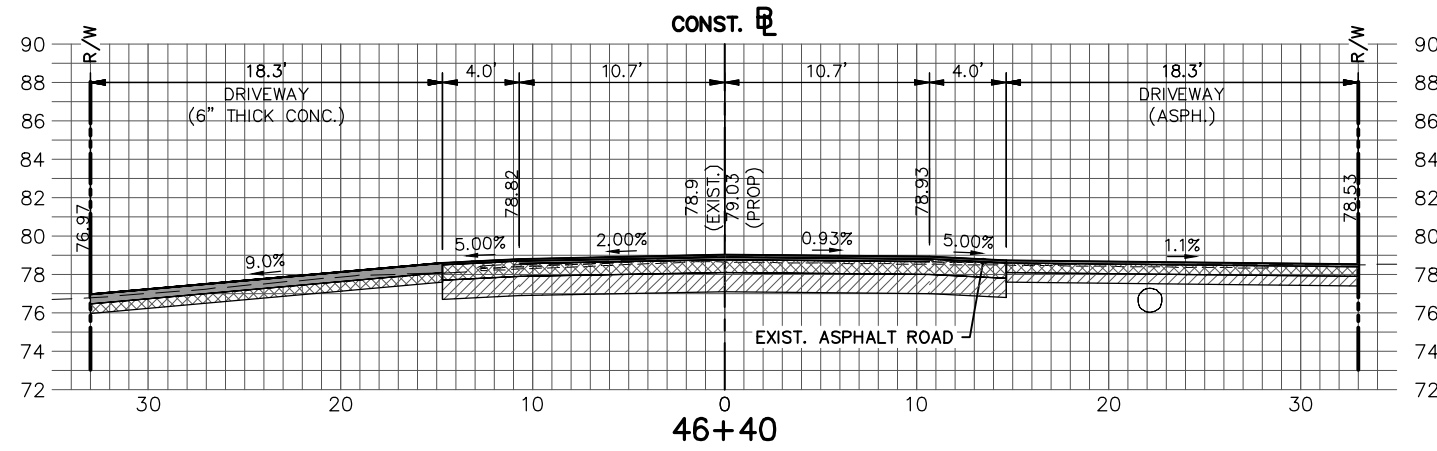
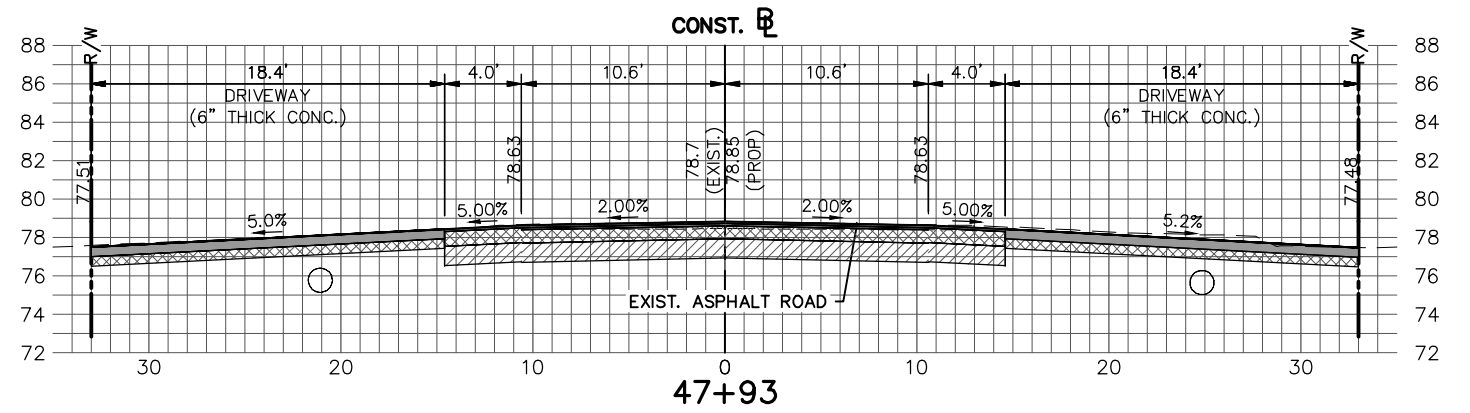
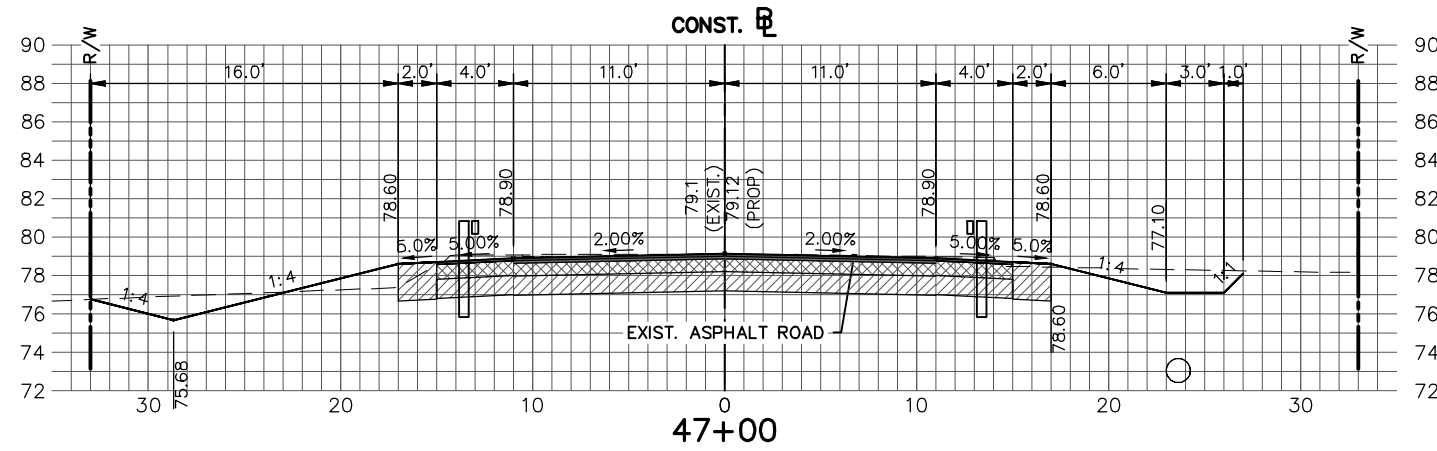
REVISIONS			STATUS
DATE	BY	DESCRIPTION	
			<b>FOR BID</b>

DESIGNED BY: ELIUS F. NORTELUS, P.E.  
 DRAWN BY: DOUG NIETUBICZ  
 CHECKED BY: KEITH BAKER, E.I.  
 IN CHARGE: ELIUS F. NORTELUS, P.E.  
**HIGHLANDS COUNTY ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870  
 APPROVED BY: ELIUS F. NORTELUS, P.E.  
 FLORIDA REGISTRATION NO.: 70092



**LAKE JOSEPHINE DRIVE IMPROVEMENTS**  
**CROSS SECTIONS**

SCALE: HORIZ. 1"=10' VERT. 1"=10'	
PROJECT NO. 13008	REV. 0
SHEET 50 OF 71	

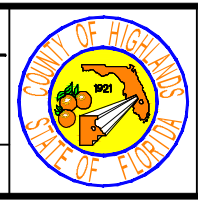


REVISIONS			STATUS	DESIGNED BY: ELIUS F. NORTELUS, P.E.
DATE	BY	DESCRIPTION		
			<b>FOR BID</b>	DRAWN BY: DOUG NIETUBICZ
				CHECKED BY: KEITH BAKER, E.I.
				IN CHARGE: ELIUS F. NORTELUS, P.E.

**HIGHLANDS COUNTY  
ENGINEERING DEPARTMENT**  
505 S. COMMERCE AVENUE  
SEBRING, FLORIDA 33870

APPROVED BY: ELIUS F. NORTELUS, P.E.  
FLORIDA REGISTRATION NO.: 70092

DATE: 12/2/2016

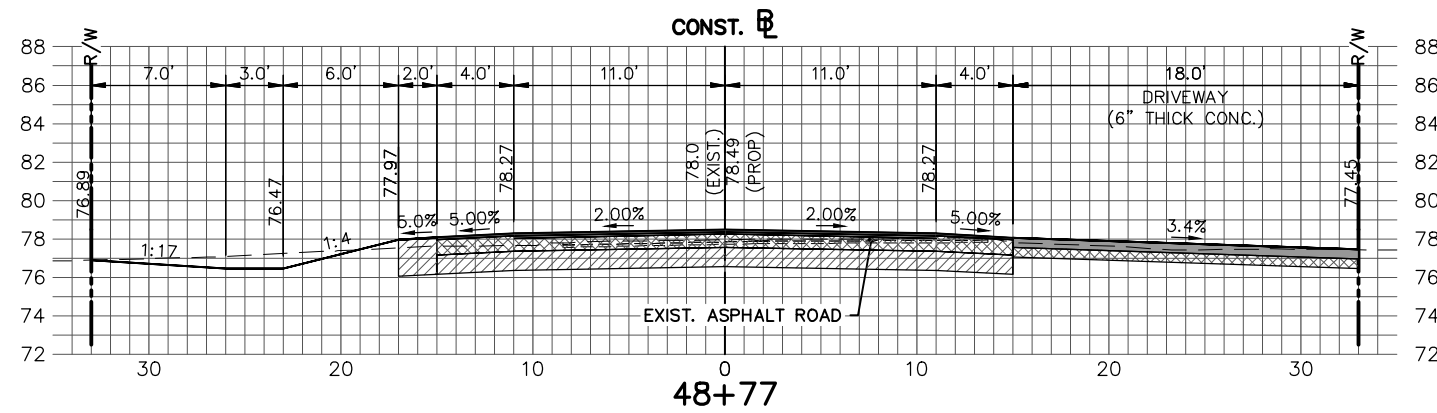
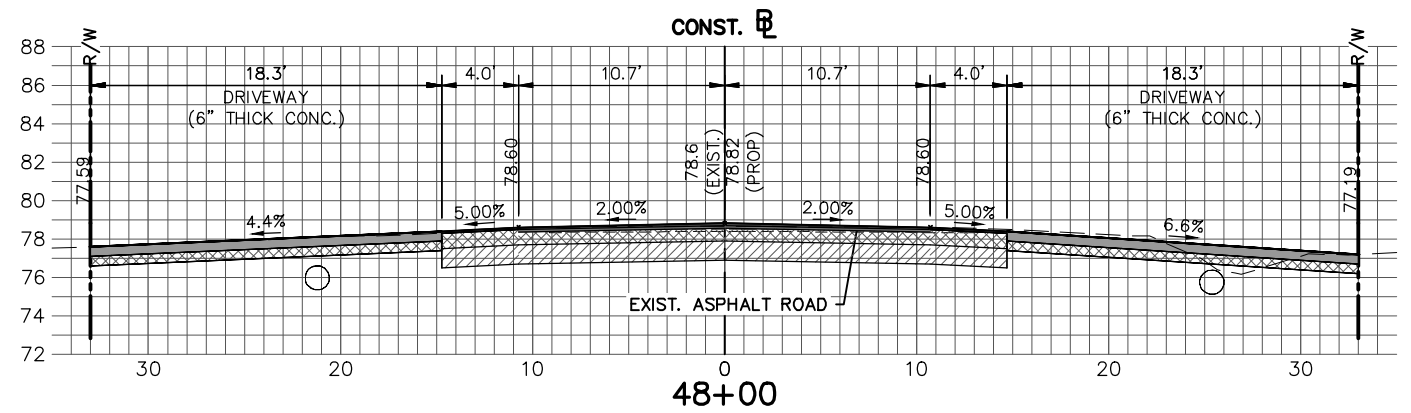
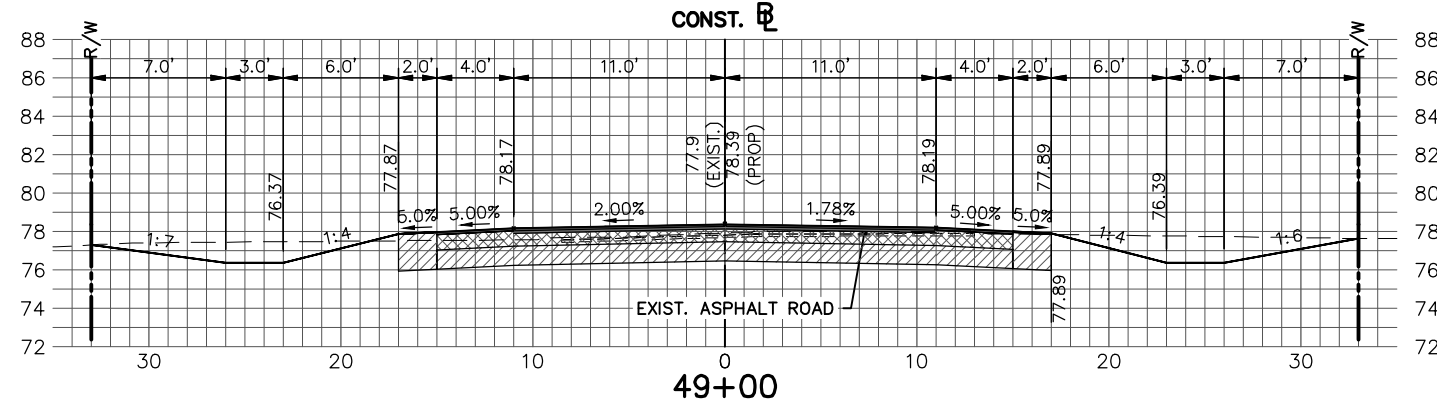
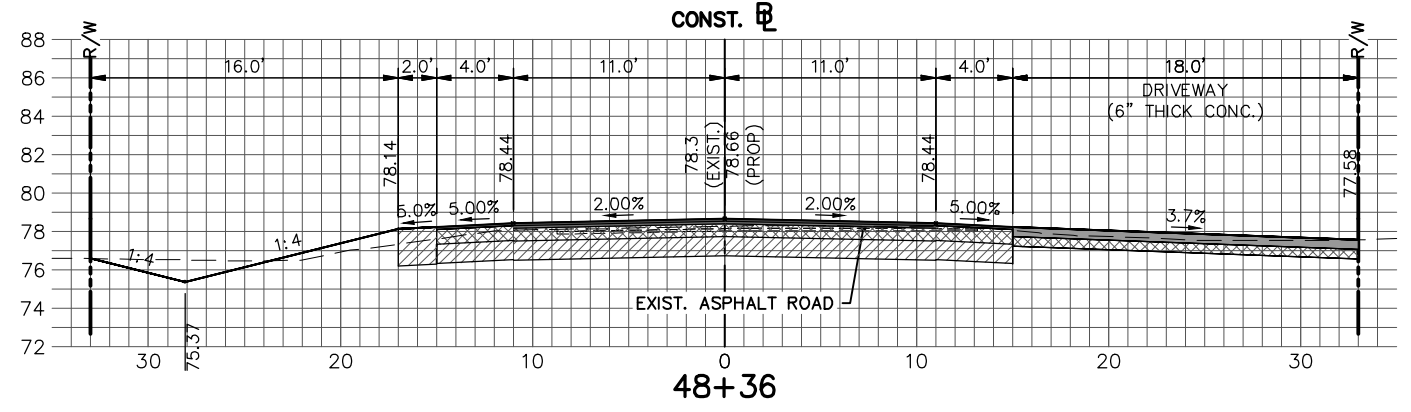
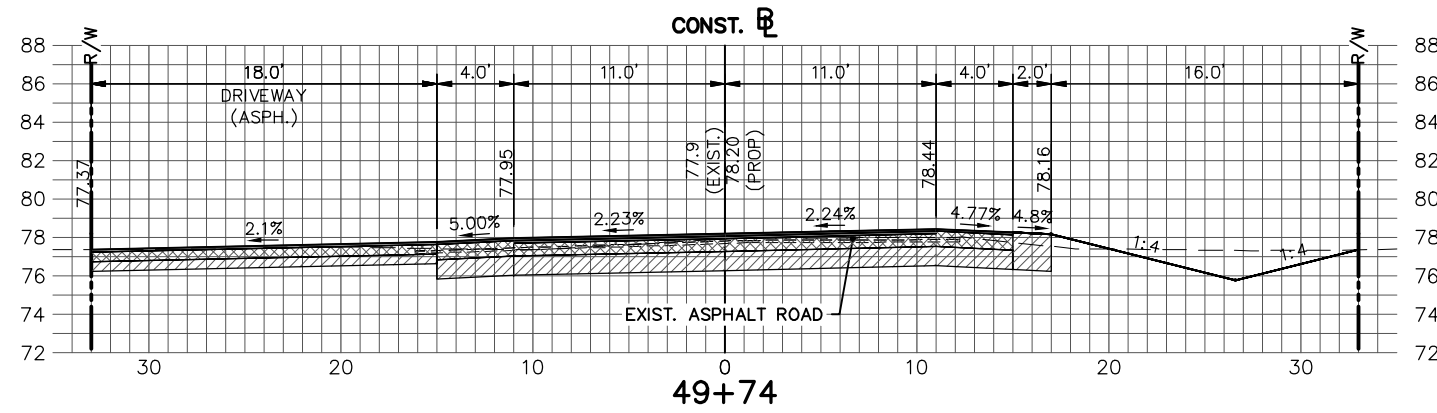
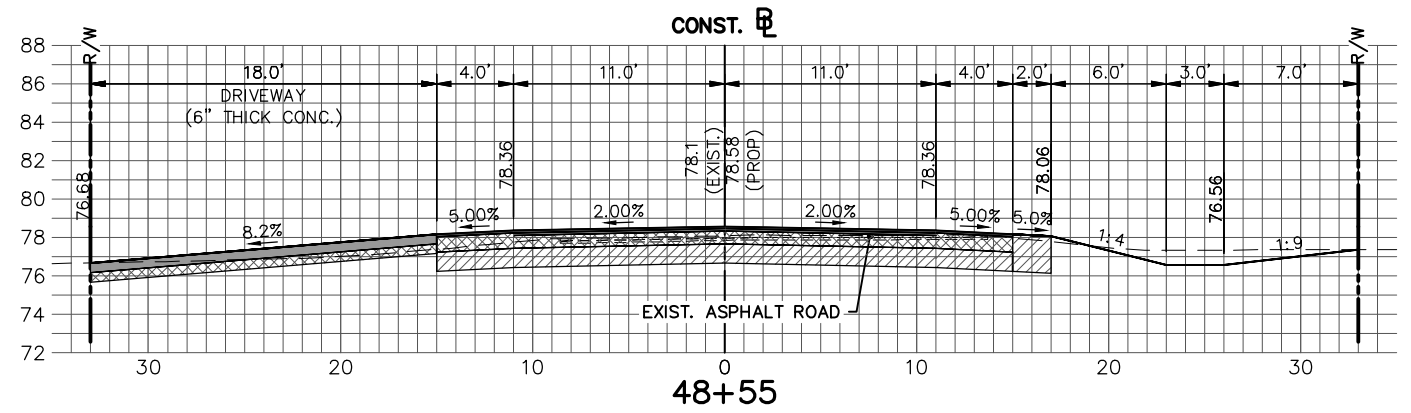


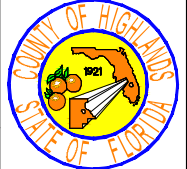
LAKE JOSEPHINE DRIVE  
IMPROVEMENTS  
CROSS SECTIONS

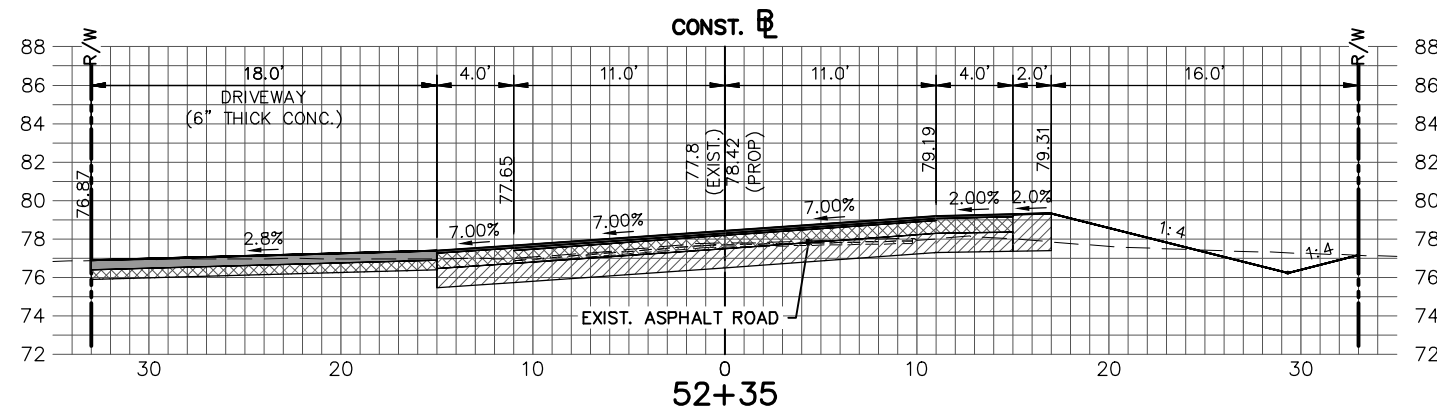
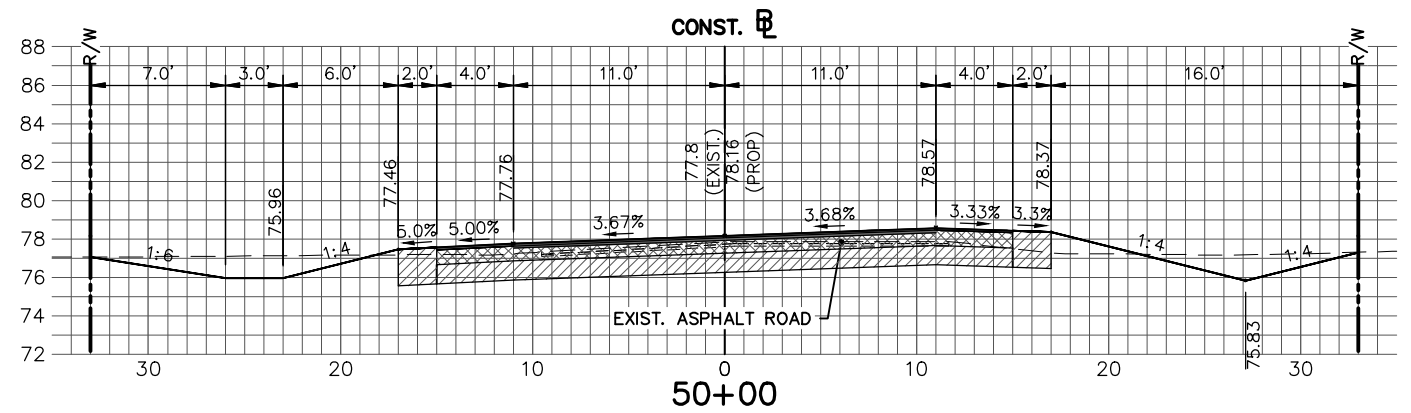
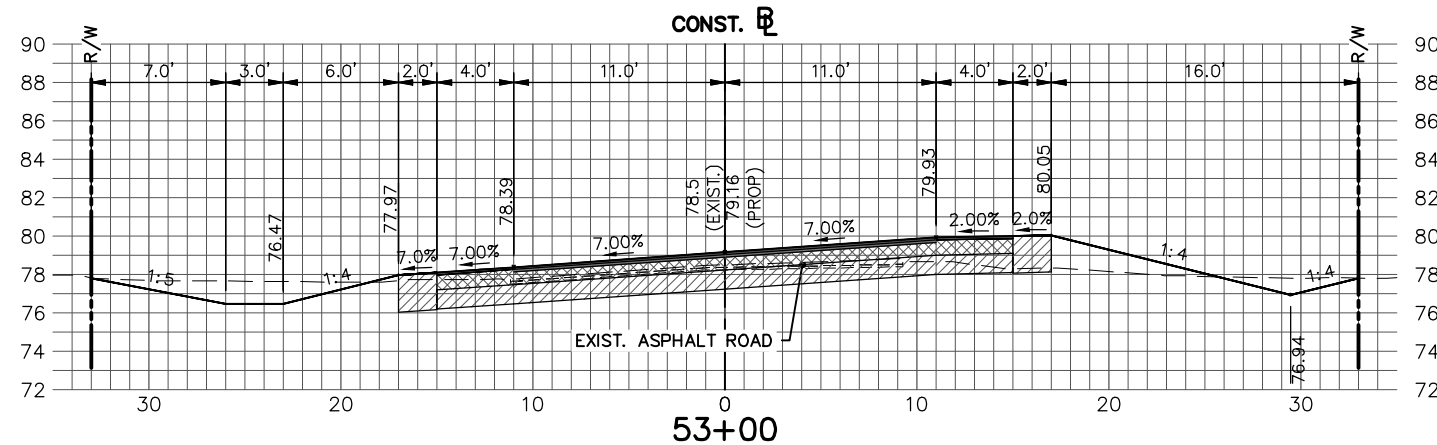
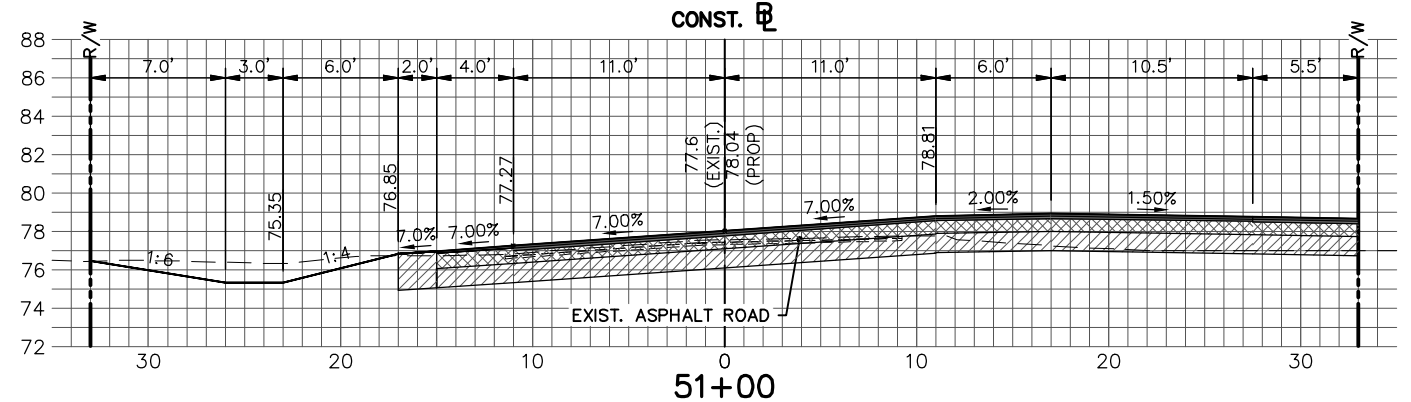
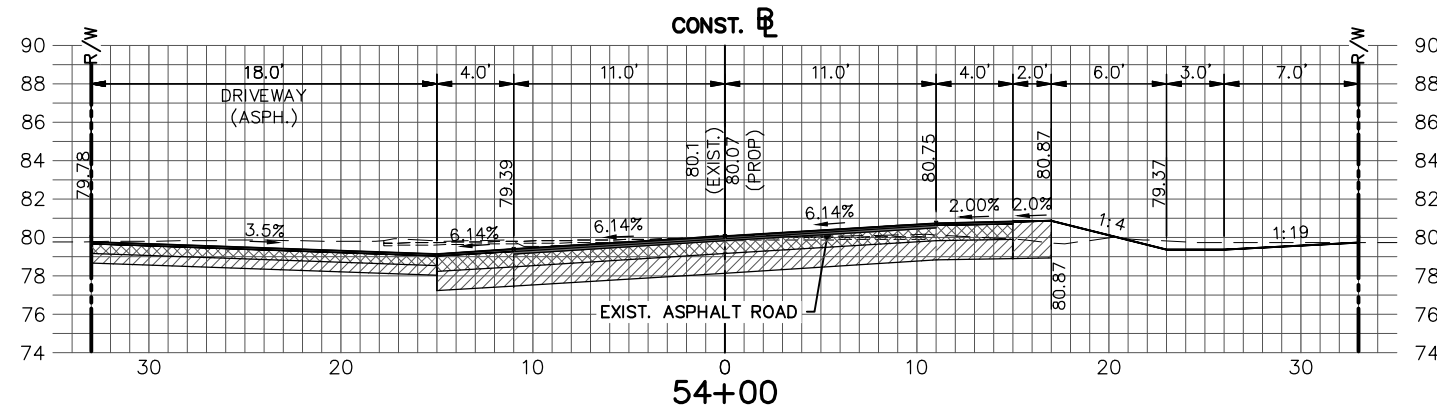
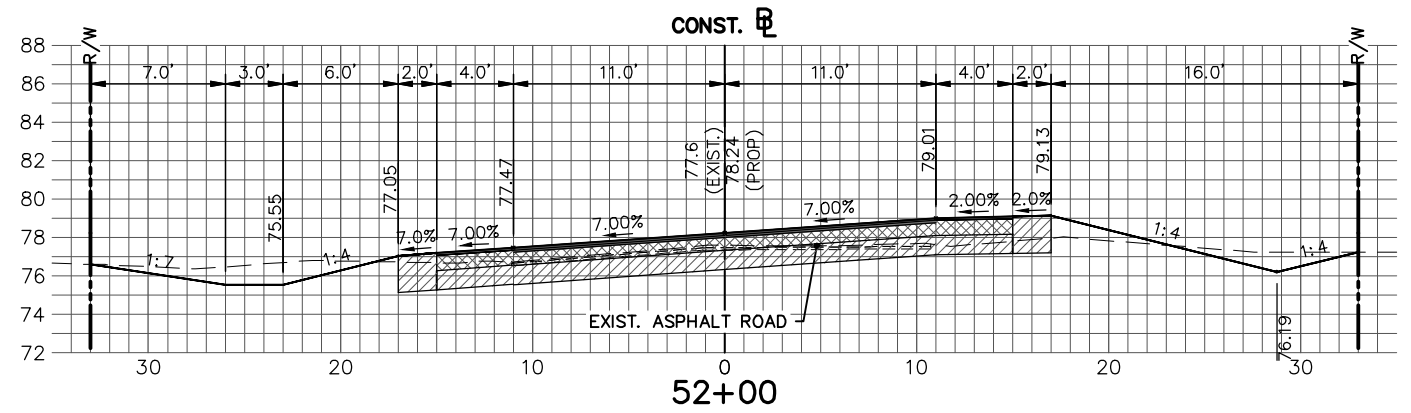
SCALE:  
HORIZ. 1"=10'  
VERT. 1"=10'

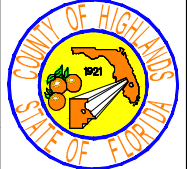
PROJECT NO. 13008 REV. 0

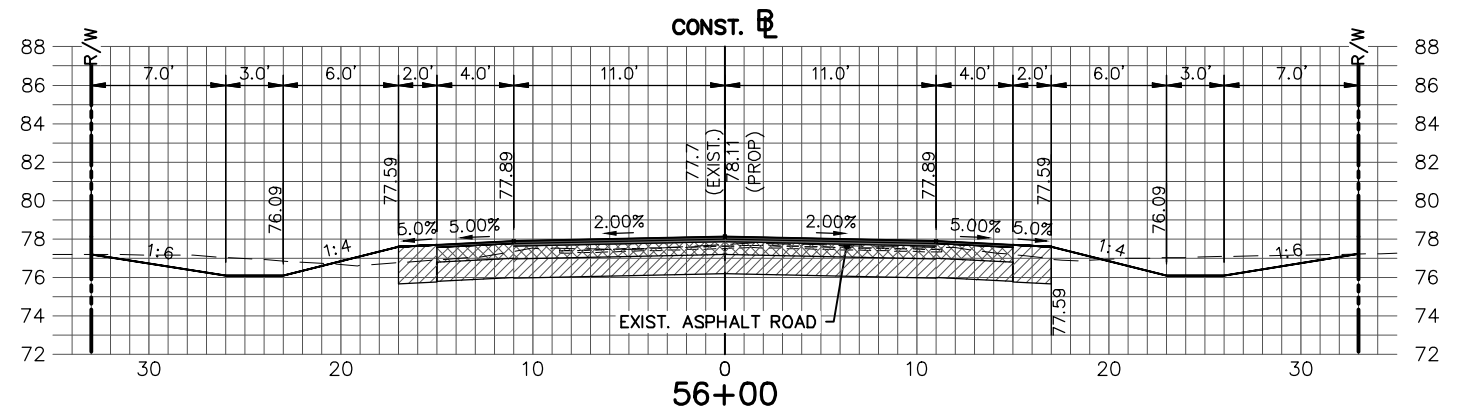
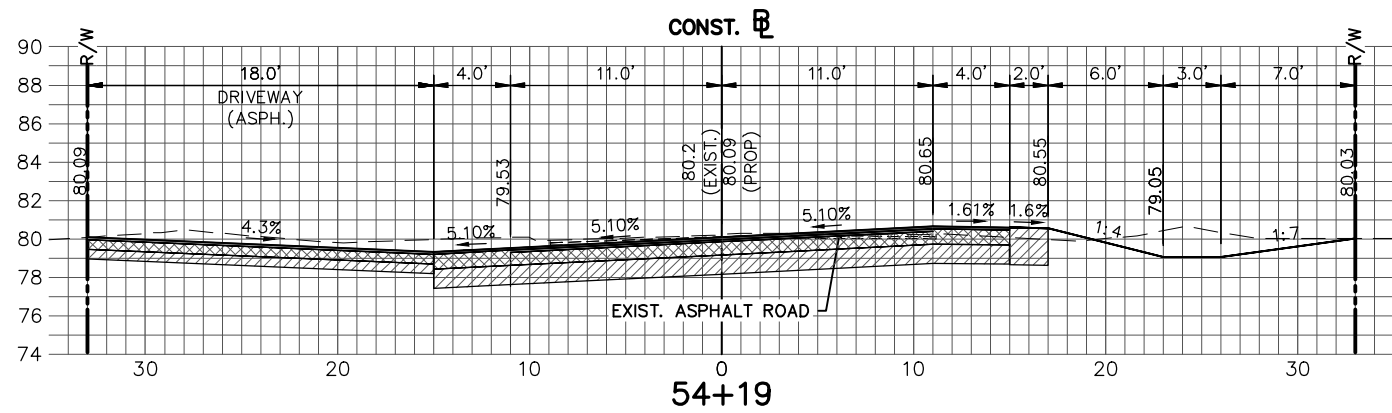
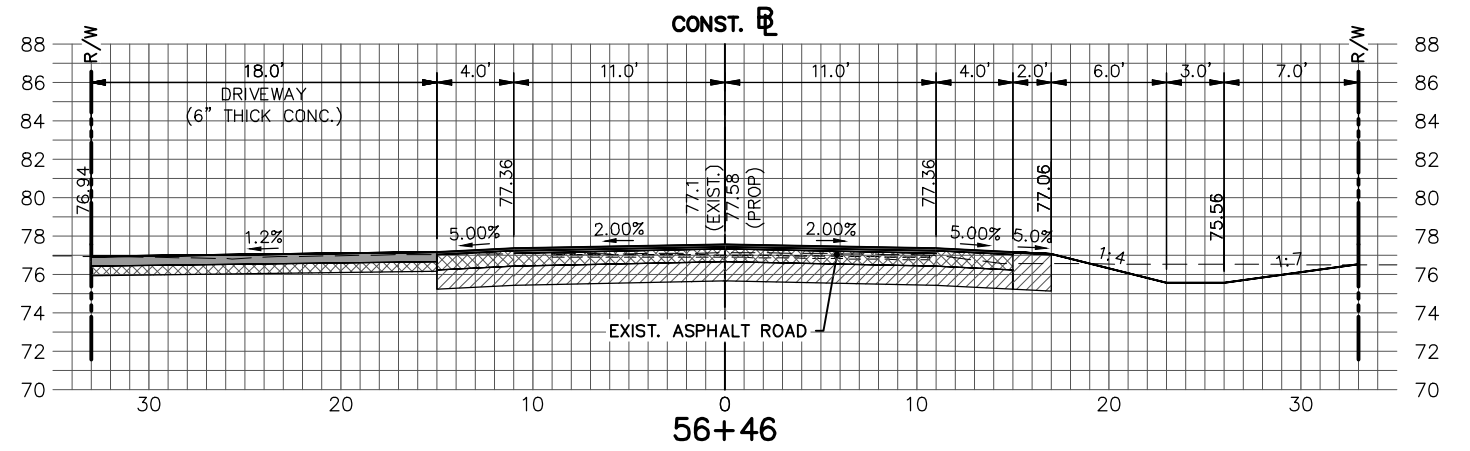
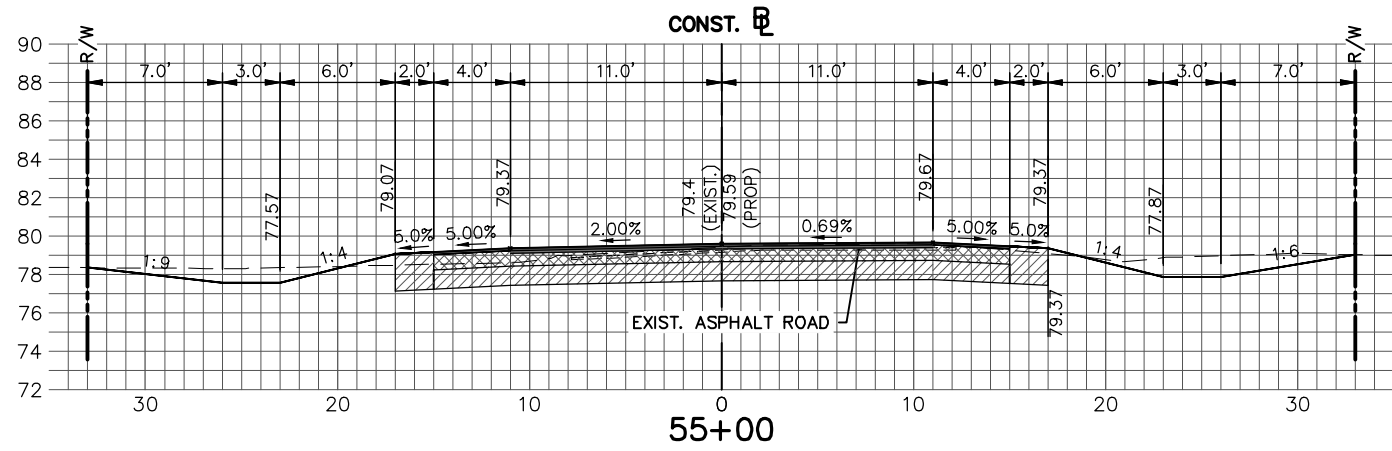
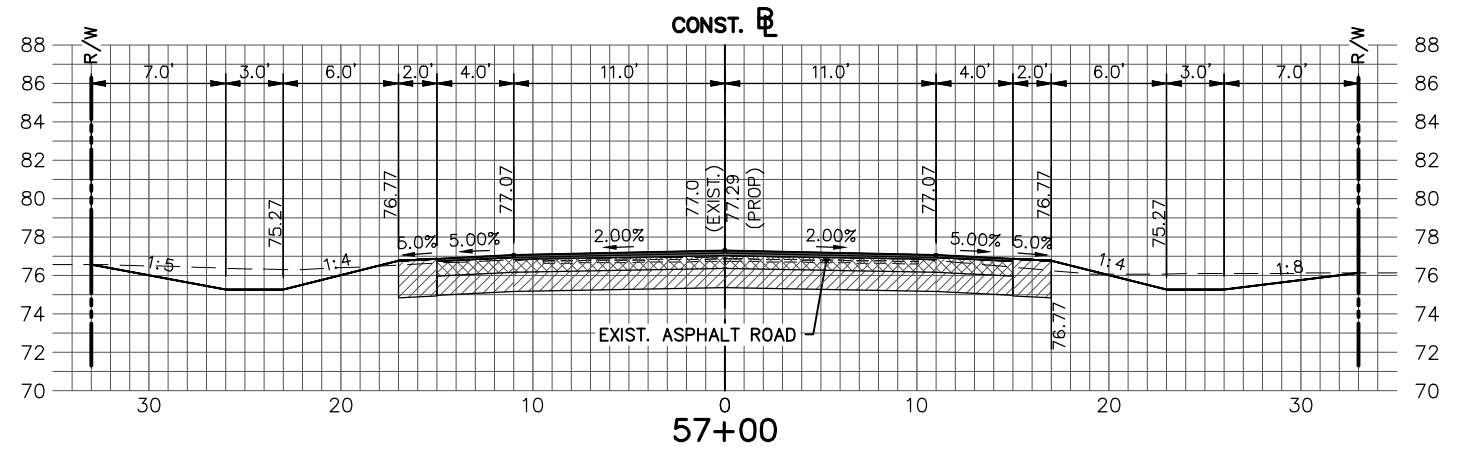
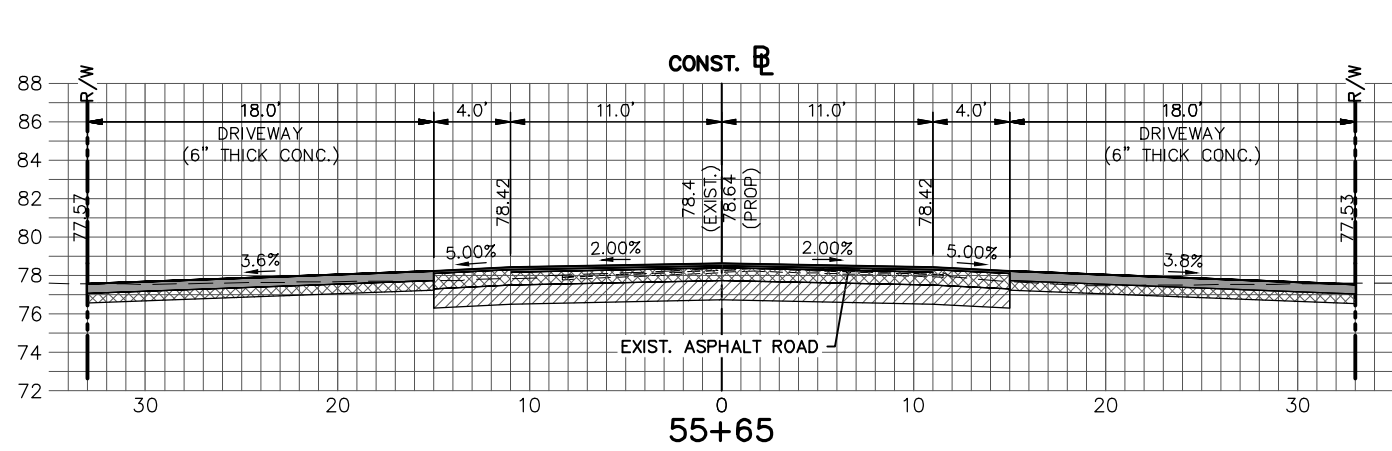
SHEET 51 OF 71



REVISIONS			STATUS		DESIGNED BY: ELIUS F. NORTELUS, P.E.	HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870		SCALE:		
DATE	BY	DESCRIPTION	FOR BID					HORIZ. 1"=10'	VERT. 1"=10'	
					DRAWN BY: DOUG NIETUBICZ	APPROVED BY: ELIUS F. NORTELUS, P.E. FLORIDA REGISTRATION NO.: 70092	DATE:	LAKE JOSEPHINE DRIVE IMPROVEMENTS CROSS SECTIONS	PROJECT NO. 13008	REV. 0
					CHECKED BY: KEITH BAKER, E.I.				SHEET 52 OF 71	
					IN CHARGE: ELIUS F. NORTELUS, P.E.					



REVISIONS			STATUS		DESIGNED BY:		<b>HIGHLANDS COUNTY</b> <b>ENGINEERING DEPARTMENT</b> 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870		SCALE:	
DATE	BY	DESCRIPTION	<b>FOR BID</b>		ELIUS F. NORTELUS, P.E.				HORIZ. 1"=10'	VERT. 1"=10'
					DRAWN BY:					
					DOUG NIETUBICZ					
					CHECKED BY:					
					KEITH BAKER, E.I.					
			IN CHARGE:		ELIUS F. NORTELUS, P.E.		PROJECT NO. 13008		REV. 0	
			DATE:		12/2/2016		APPROVED BY:		ELIUS F. NORTELUS, P.E.	DATE:
							FLORIDA REGISTRATION NO.: 70092		LAKE JOSEPHINE DRIVE IMPROVEMENTS	
									CROSS SECTIONS	
									SHEET 53 OF 71	



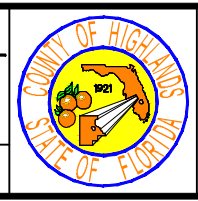
REVISIONS			STATUS	
DATE	BY	DESCRIPTION		
			<b>FOR BID</b>	

DESIGNED BY: ELIUS F. NORTELUS, P.E.	<b>HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870</b>
DRAWN BY: DOUG NIETUBICZ	
CHECKED BY: KEITH BAKER, E.I.	
IN CHARGE: ELIUS F. NORTELUS, P.E.	
DATE: 10/27/2016	

**HIGHLANDS COUNTY  
ENGINEERING DEPARTMENT  
505 S. COMMERCE AVENUE  
SEBRING, FLORIDA 33870**

APPROVED BY: ELIUS F. NORTELUS, P.E.  
FLORIDA REGISTRATION NO.: 70092

DATE:



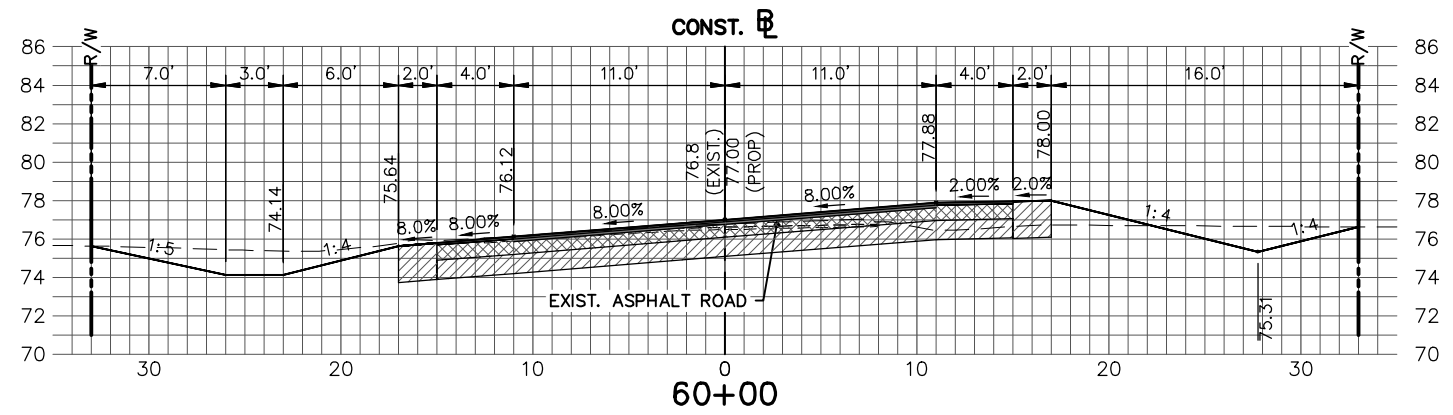
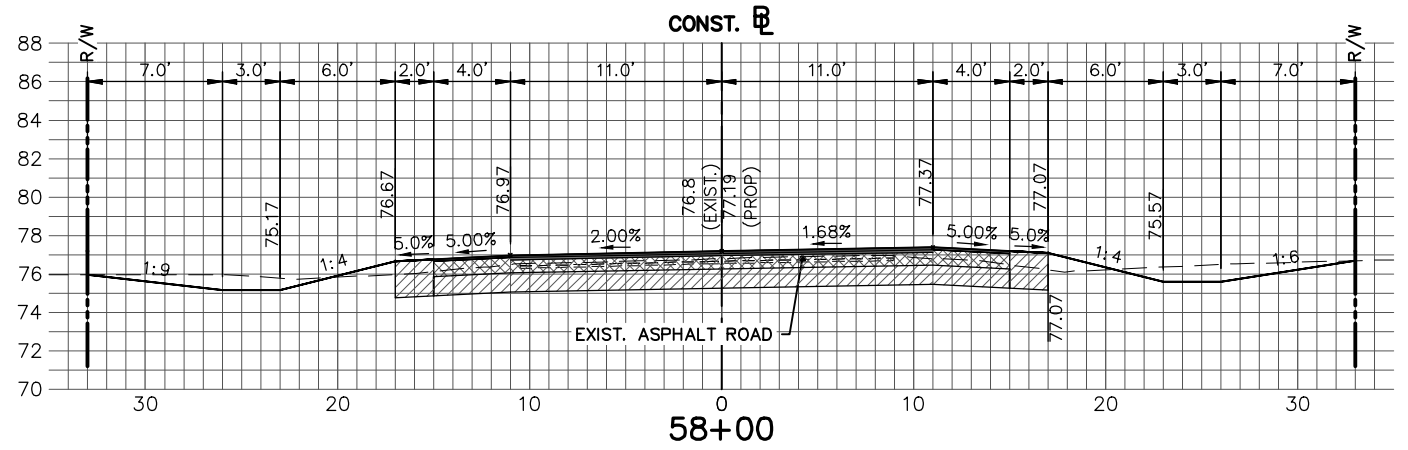
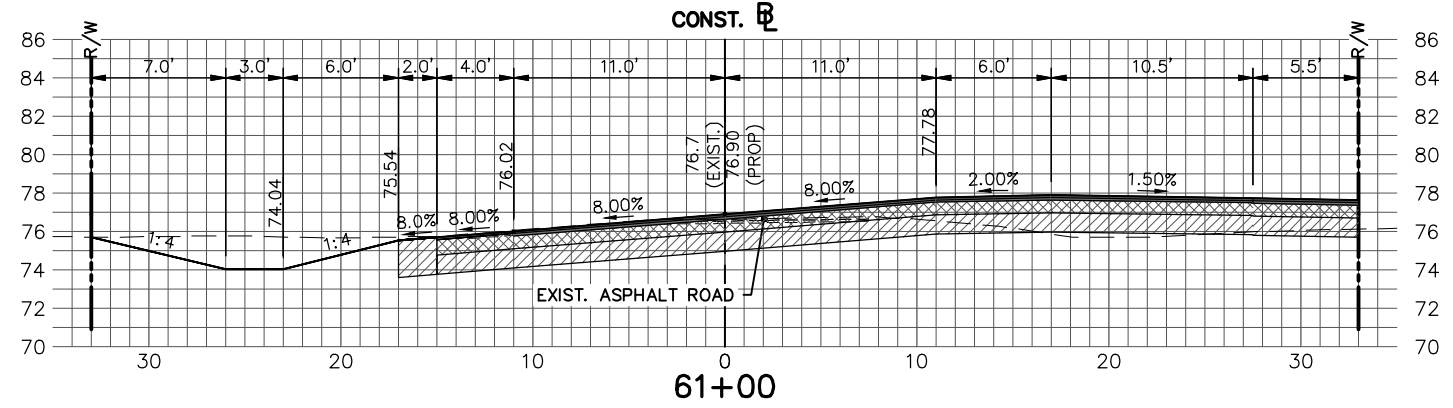
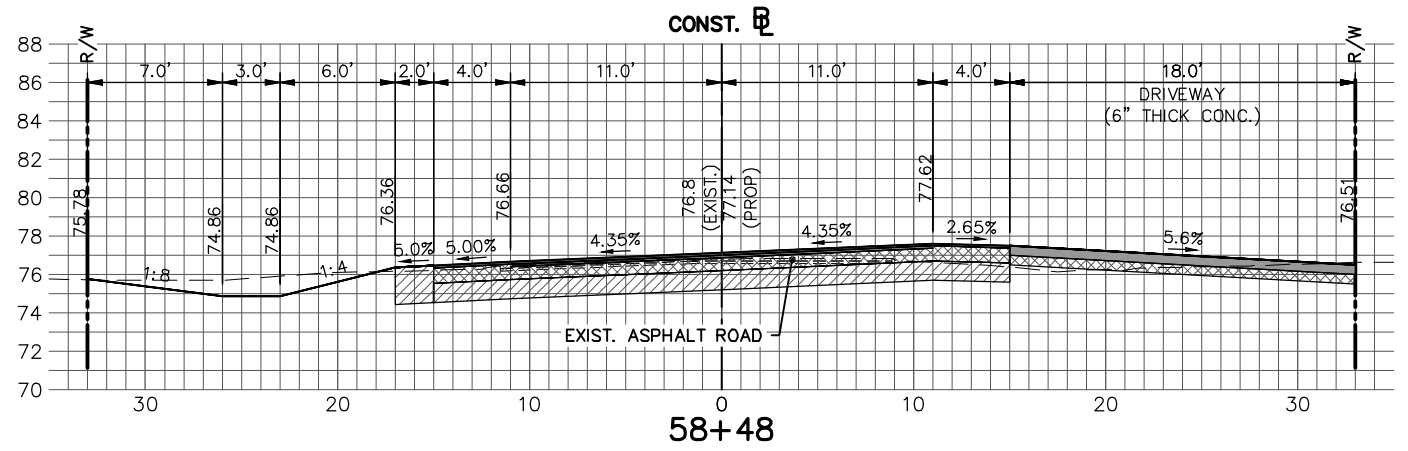
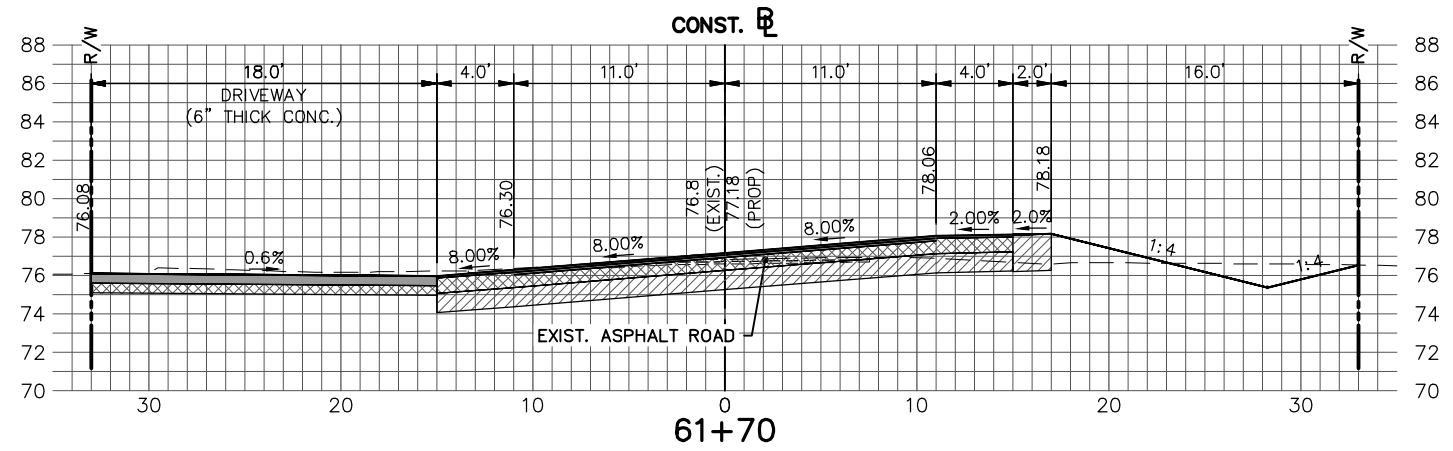
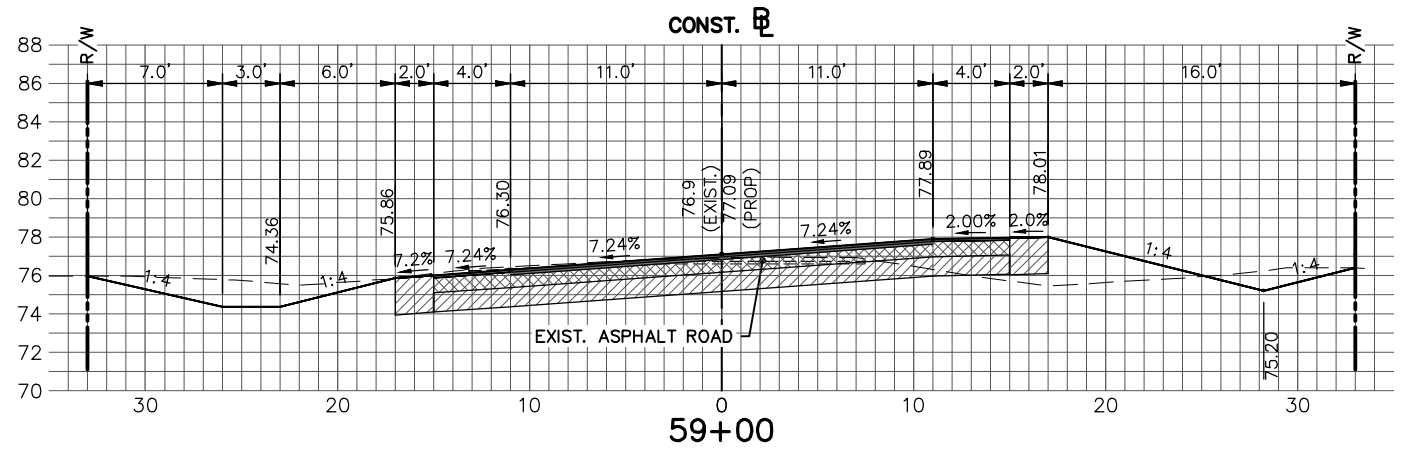
**LAKE JOSEPHINE DRIVE  
IMPROVEMENTS  
CROSS SECTIONS**

SCALE:  
HORIZ. 1"=10'  
VERT. 1"=10'

PROJECT NO. 13008    REV. 0

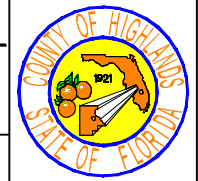
SHEET 54 OF 71

G:\PROJECTS\2013\13008 Lake Josephine Drive Resurfacing\Drawings\Full Depth Reconstruction Option\Cross Section Sheets Lake Josephine.dwg, Cross Section Sheets Lake Josephine - Section Sheet - (10), Baker, Keith J. Colors As Black Except Gray

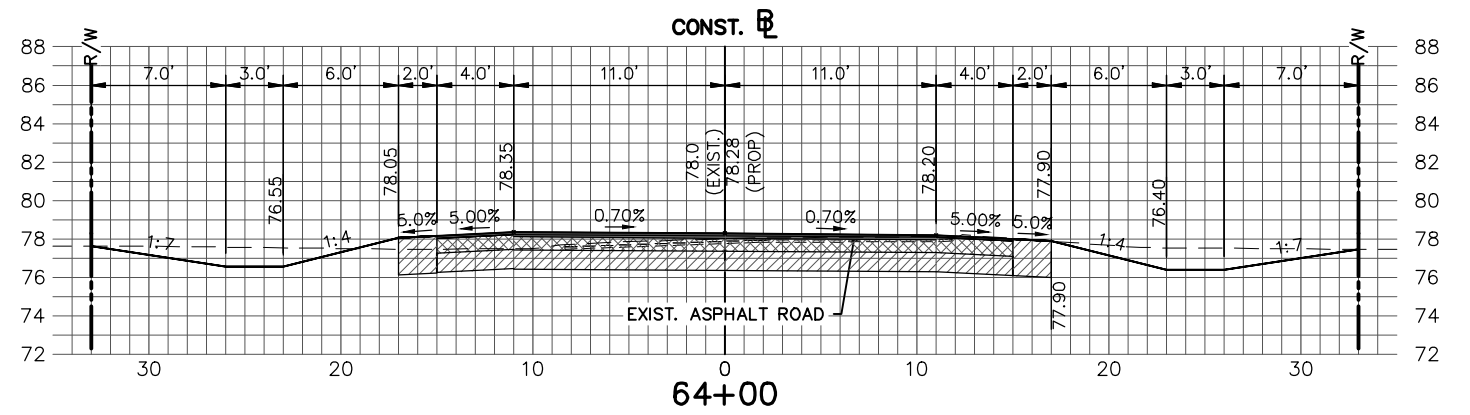
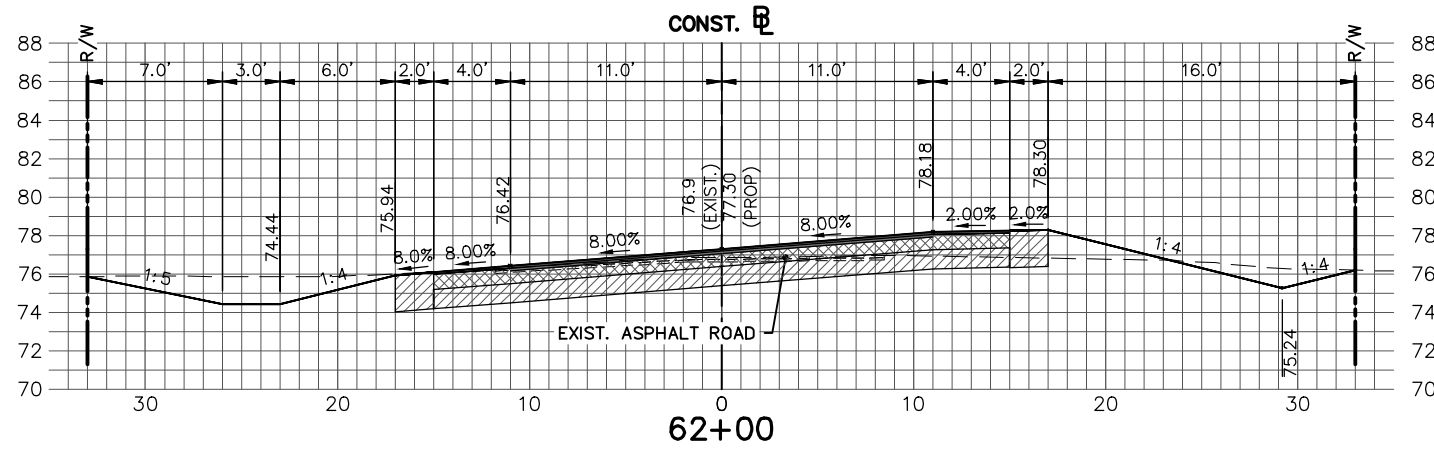
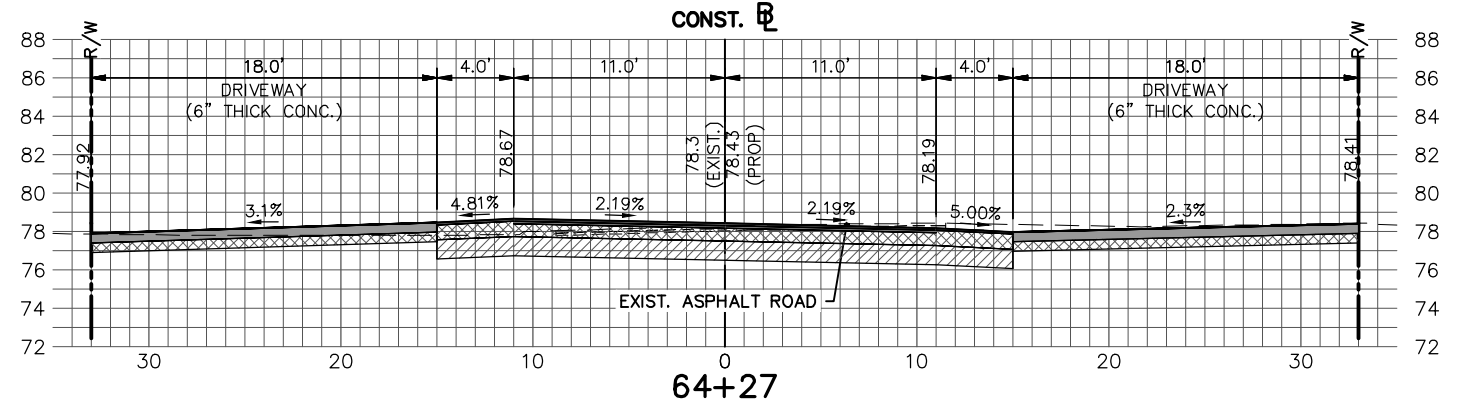
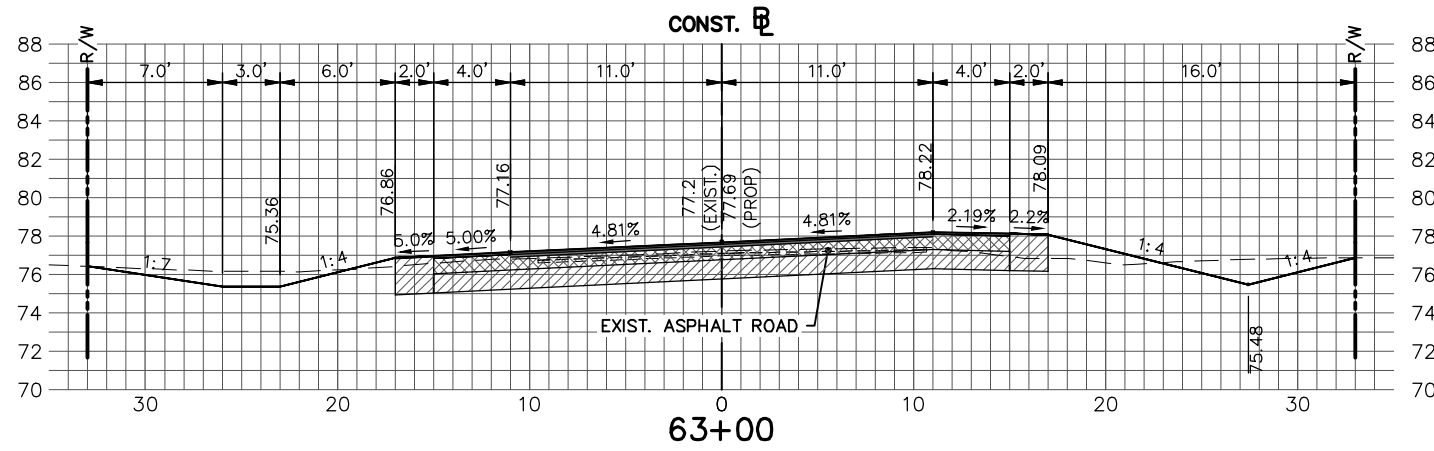
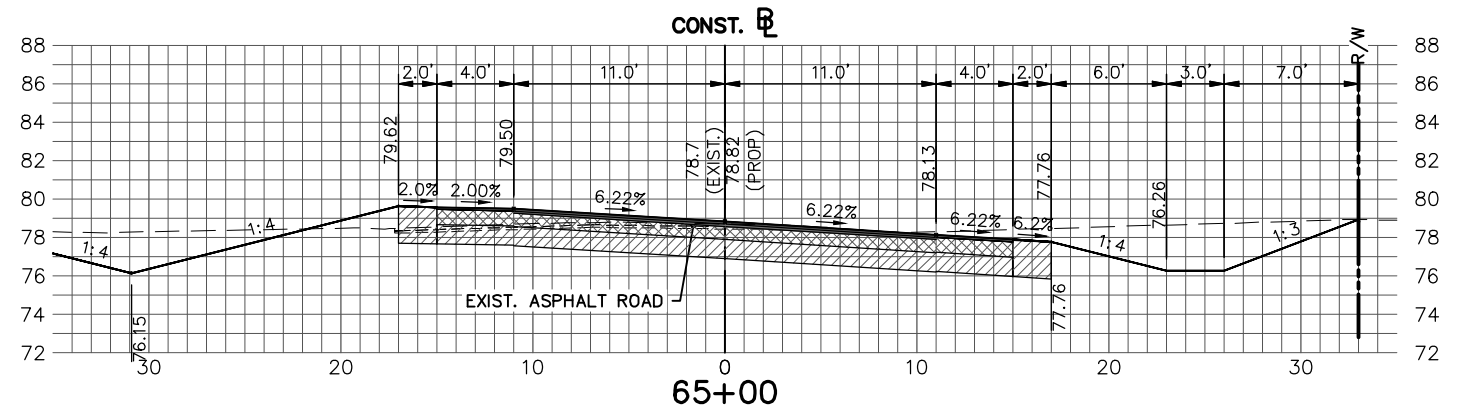
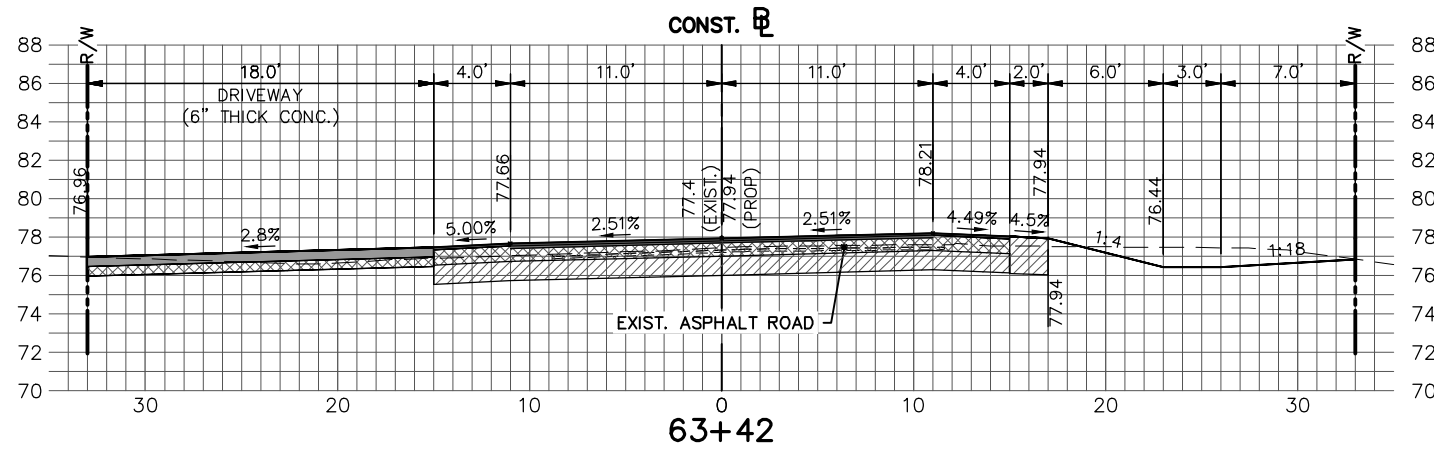


REVISIONS			STATUS		DESIGNED BY: ELIUS F. NORTELUS, P.E.	DRAWN BY: DOUG NIETUBICZ	CHECKED BY: KEITH BAKER, E.I.	IN CHARGE: ELIUS F. NORTELUS, P.E.	DATE: 10/27/2016	APPROVED BY: ELIUS F. NORTELUS, P.E.	DATE:	SCALE: HORIZ. 1"=10' VERT. 1"=10'	PROJECT NO. 13008	REV. 0
DATE	BY	DESCRIPTION	FOR BID											

**HIGHLANDS COUNTY  
ENGINEERING DEPARTMENT**  
505 S. COMMERCE AVENUE  
SEBRING, FLORIDA 33870

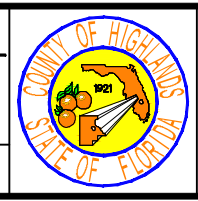


**LAKE JOSEPHINE DRIVE  
IMPROVEMENTS  
CROSS SECTIONS**



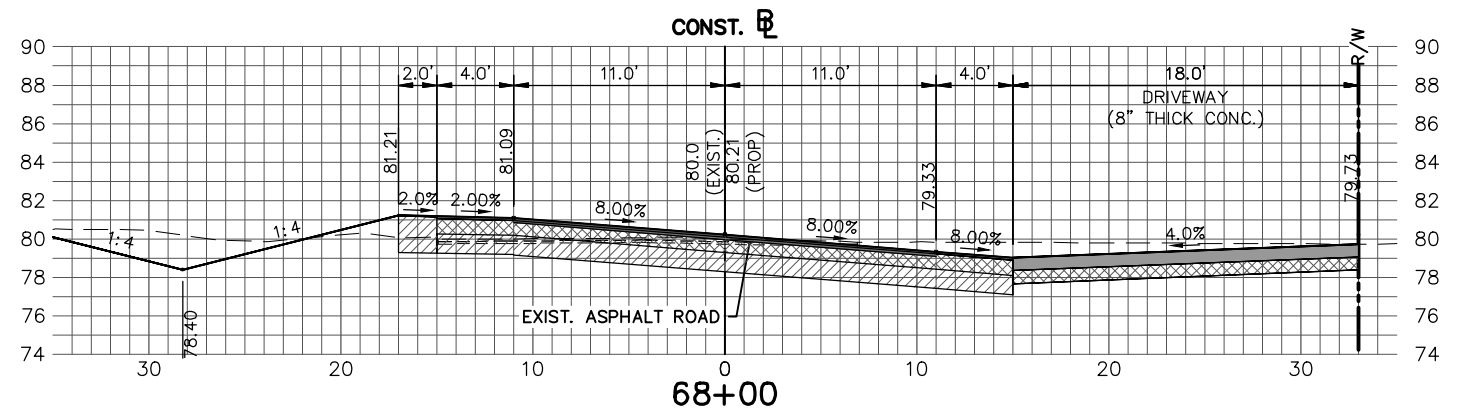
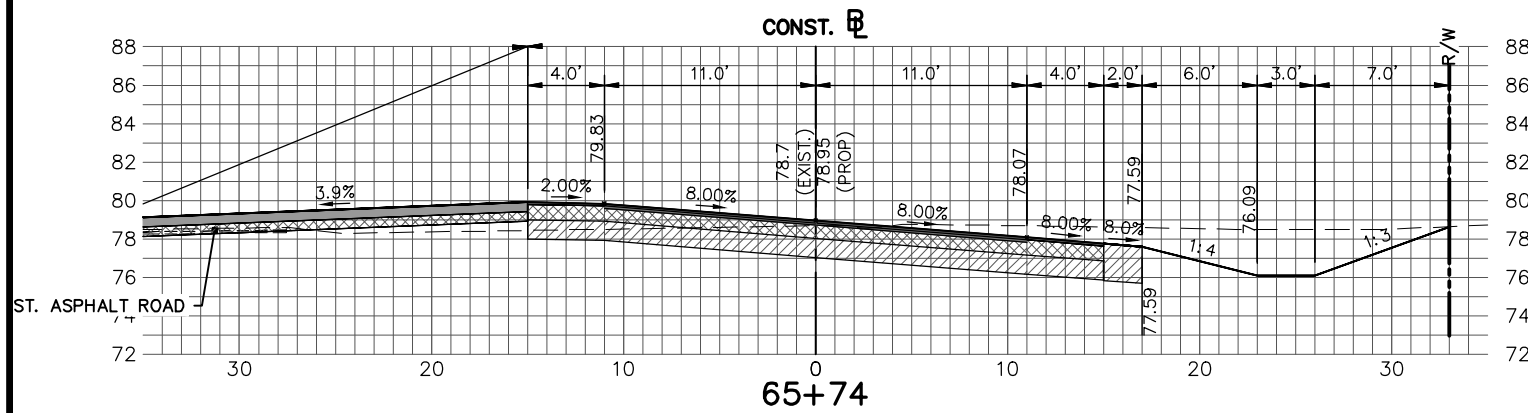
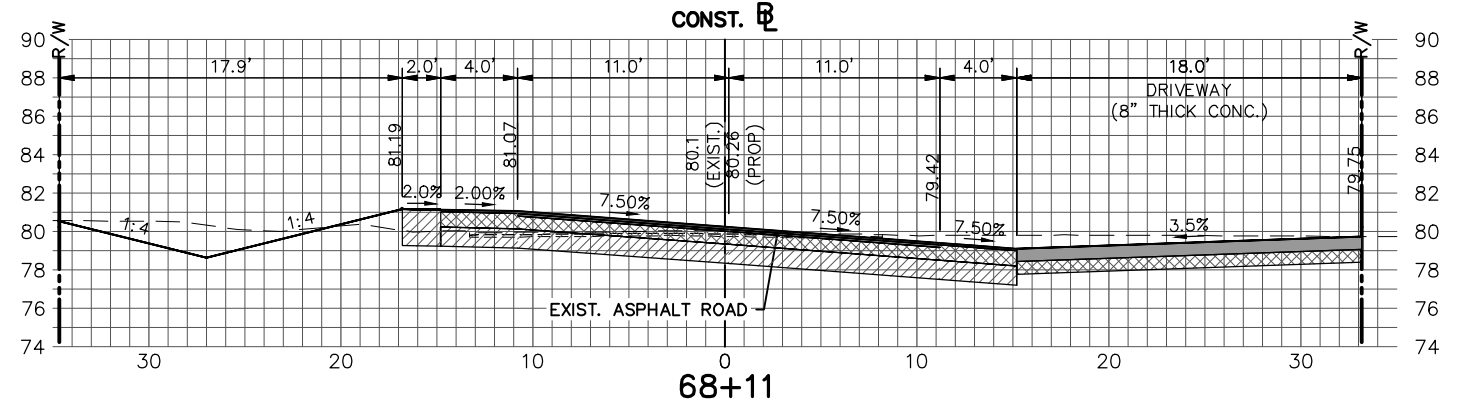
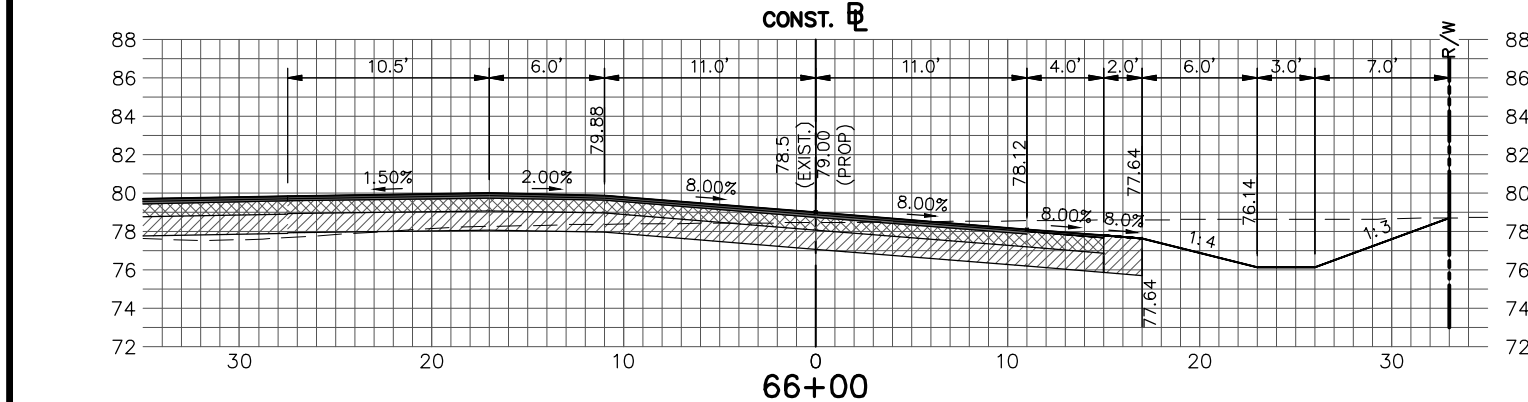
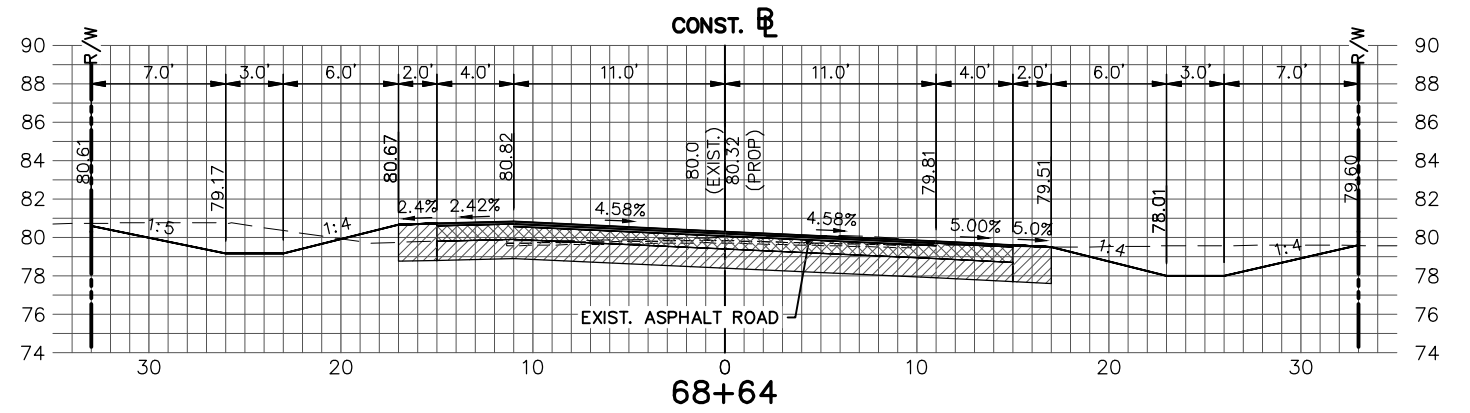
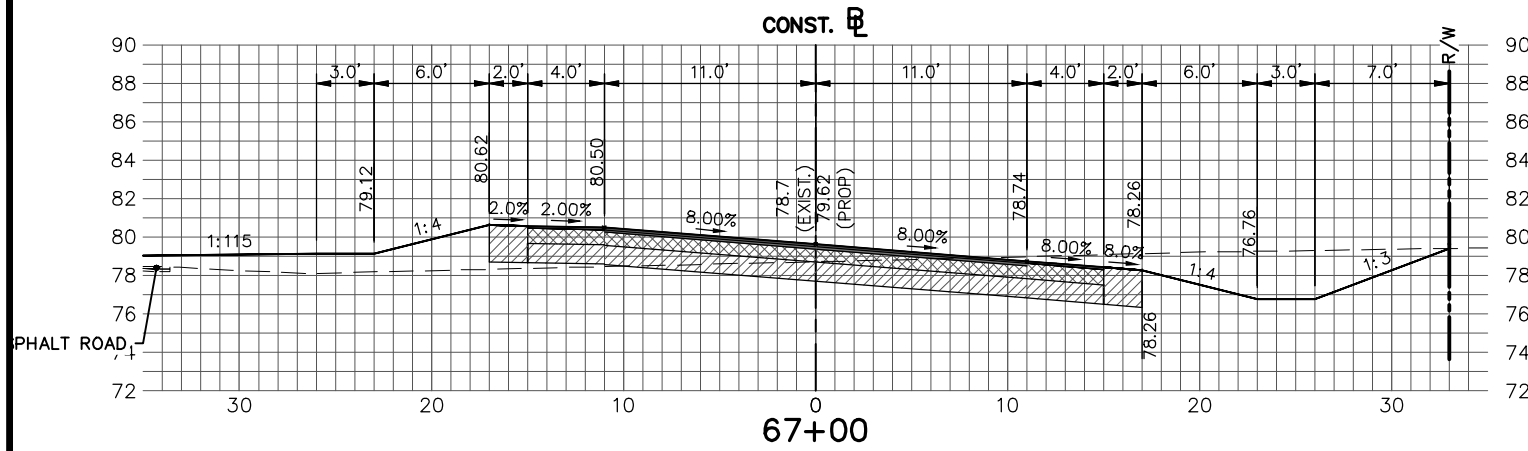
REVISIONS			STATUS
DATE	BY	DESCRIPTION	
			<b>FOR BID</b>

DESIGNED BY: ELIUS F. NORTELUS, P.E.  
 DRAWN BY: DOUG NIETUBICZ  
 CHECKED BY: KEITH BAKER, E.I.  
 IN CHARGE: ELIUS F. NORTELUS, P.E.  
**HIGHLANDS COUNTY ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870  
 APPROVED BY: ELIUS F. NORTELUS, P.E.  
 FLORIDA REGISTRATION NO.: 70092  
 DATE: 10/27/2016



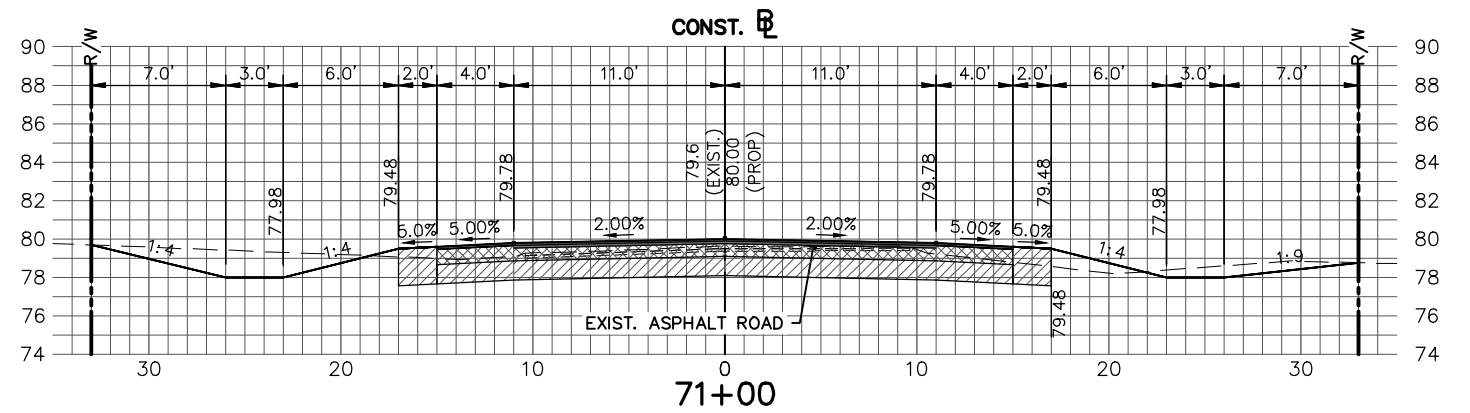
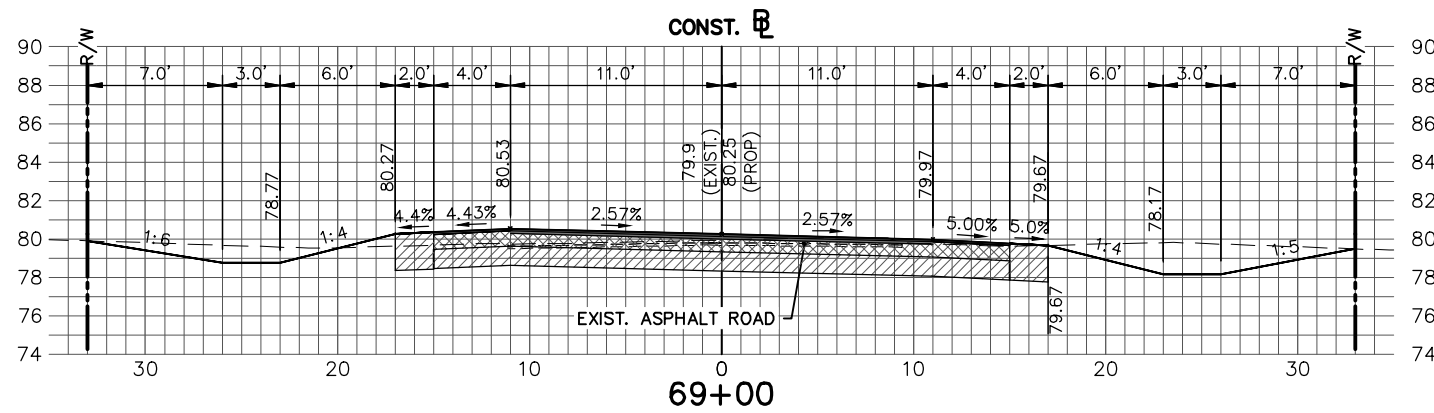
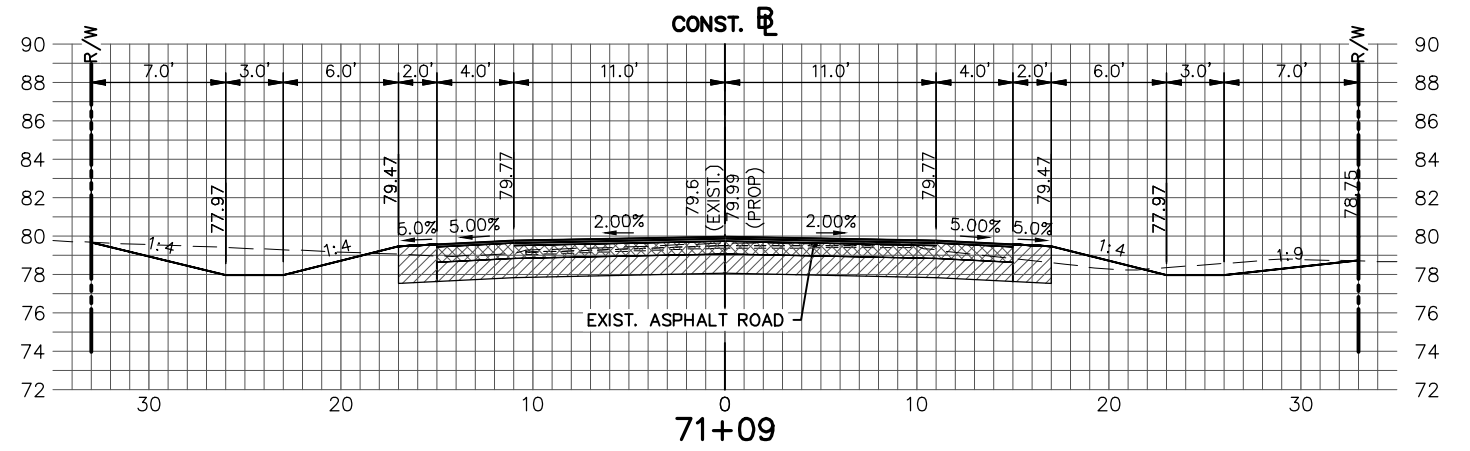
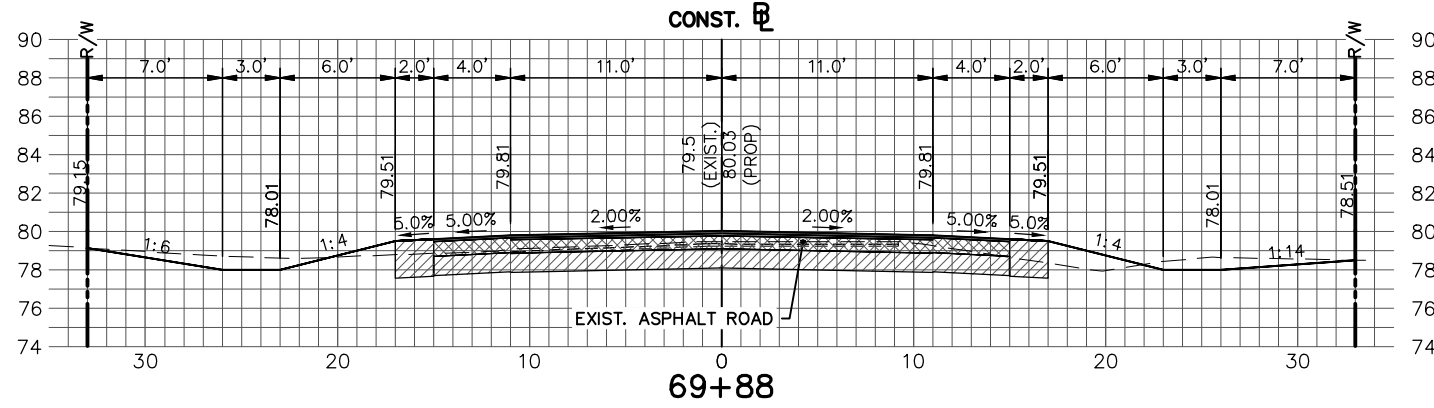
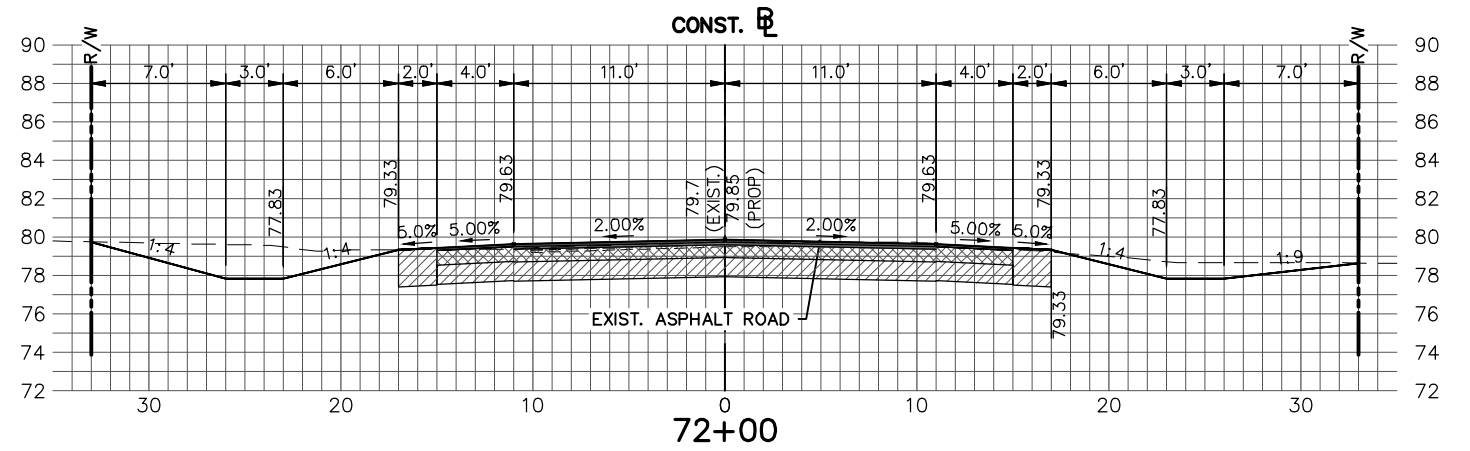
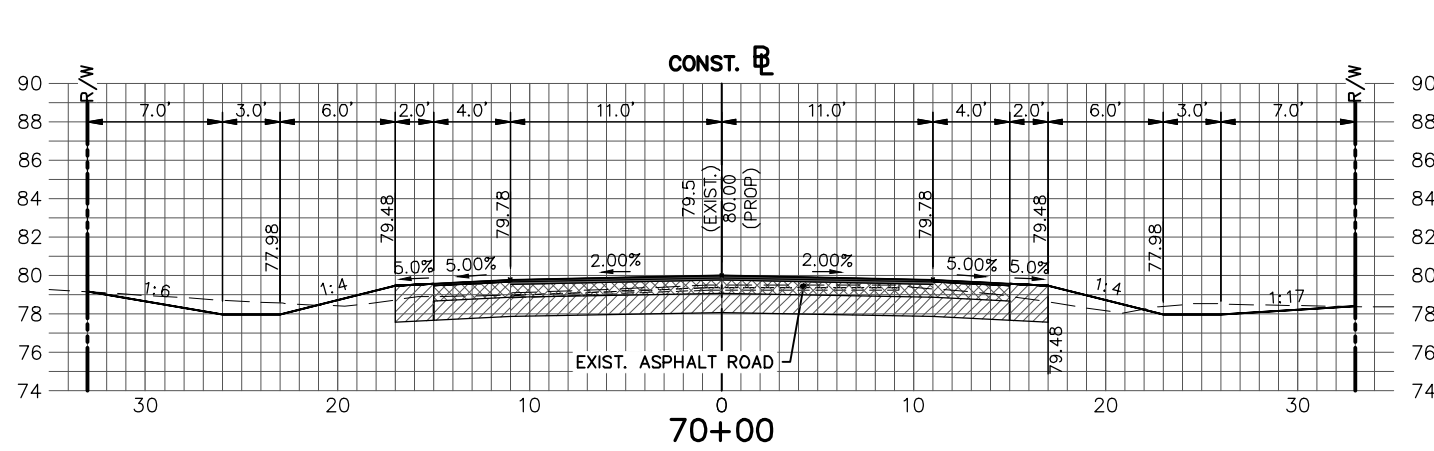
LAKE JOSEPHINE DRIVE IMPROVEMENTS  
 CROSS SECTIONS  
 SCALE:  
 HORIZ. 1"=10'  
 VERT. 1"=10'  
 PROJECT NO. 13008  
 REV. 0  
 SHEET 56 OF 71





REVISIONS			STATUS		<b>FOR BID</b>	<b>HIGHLANDS COUNTY</b> <b>ENGINEERING DEPARTMENT</b> 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870		LAKE JOSEPHINE DRIVE IMPROVEMENTS		CROSS SECTIONS	
DATE	BY	DESCRIPTION	DESIGNED BY:	STATUS				SCALE:	PROJECT NO.	REV.	
			ELIUS F. NORTELUS, P.E.		1"=10'	13008	0				
			DRAWN BY:								
			DOUG NIETUBICZ								
			CHECKED BY:								
			KEITH BAKER, E.I.								
			IN CHARGE:								
			ELIUS F. NORTELUS, P.E.								
			APPROVED BY:								
			ELIUS F. NORTELUS, P.E.								
			DATE:								
			10/2/2016								

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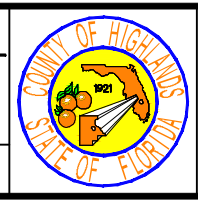


REVISIONS			STATUS	DESIGNED BY: ELIUS F. NORTELUS, P.E.
DATE	BY	DESCRIPTION		
			<b>FOR BID</b>	DRAWN BY: DOUG NIETUBICZ
				CHECKED BY: KEITH BAKER, E.I.
				IN CHARGE: ELIUS F. NORTELUS, P.E.

**HIGHLANDS COUNTY  
ENGINEERING DEPARTMENT**  
505 S. COMMERCE AVENUE  
SEBRING, FLORIDA 33870

APPROVED BY: ELIUS F. NORTELUS, P.E.  
FLORIDA REGISTRATION NO.: 70092

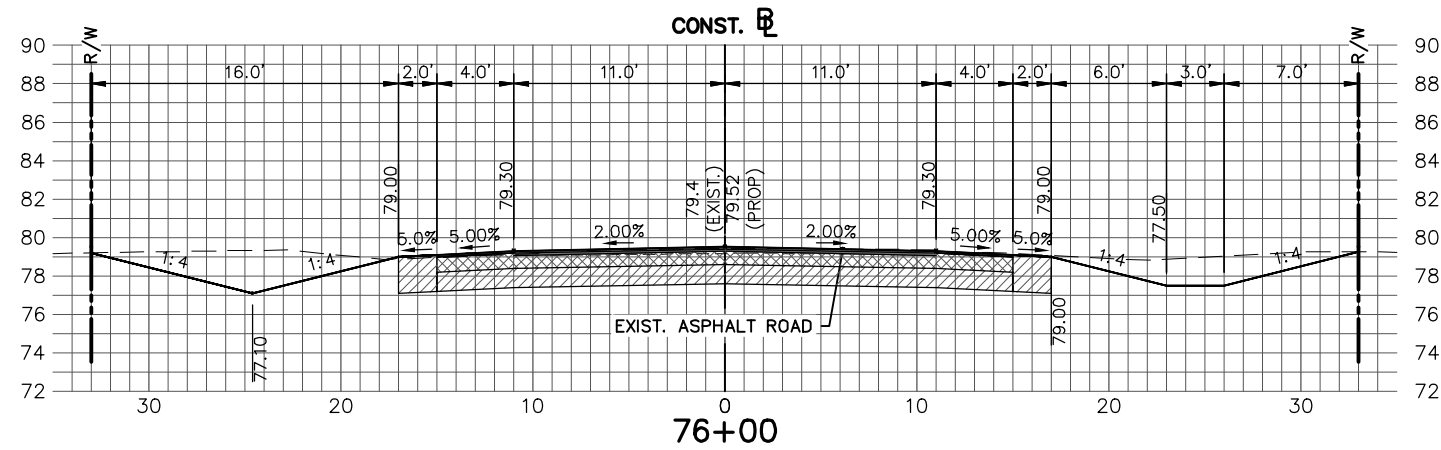
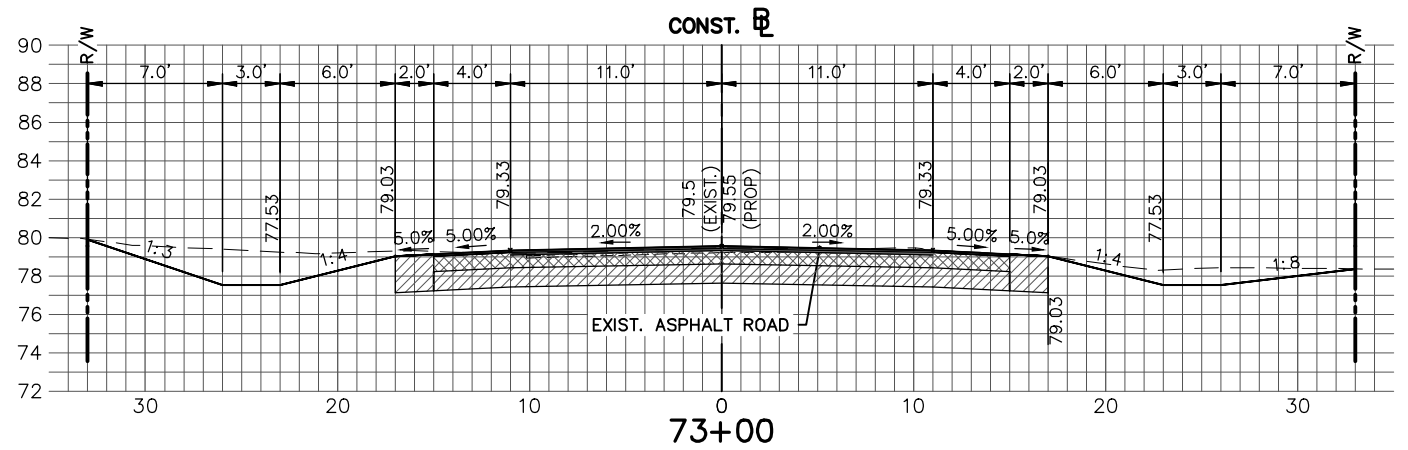
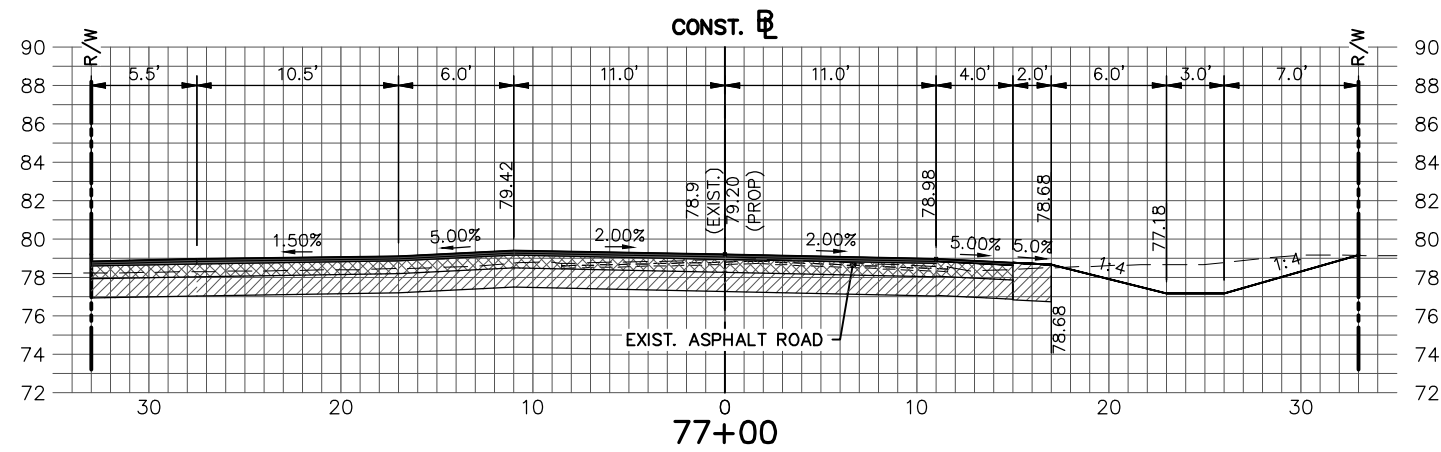
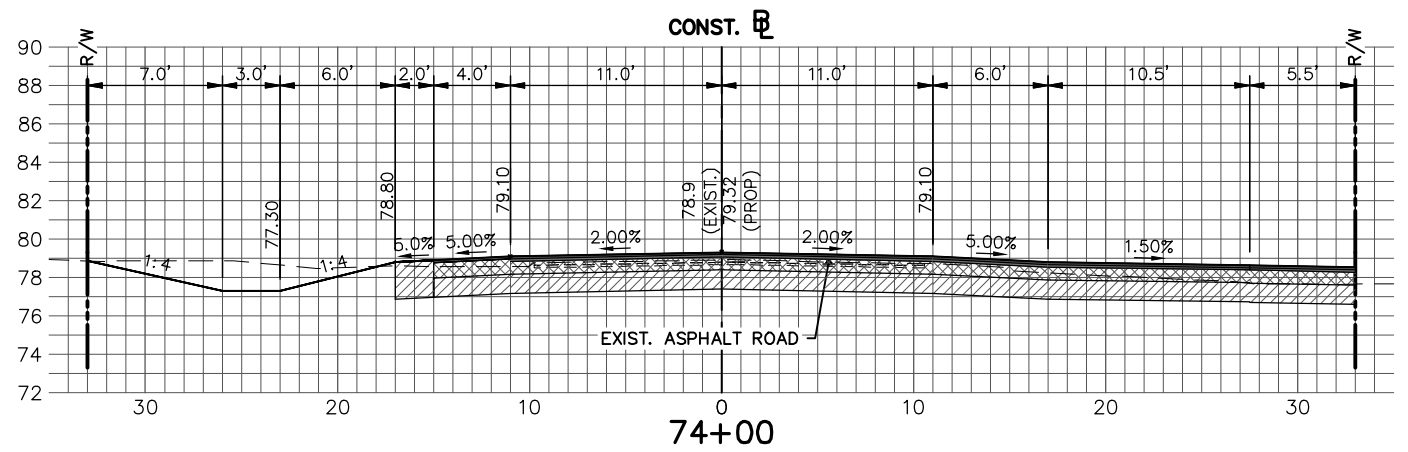
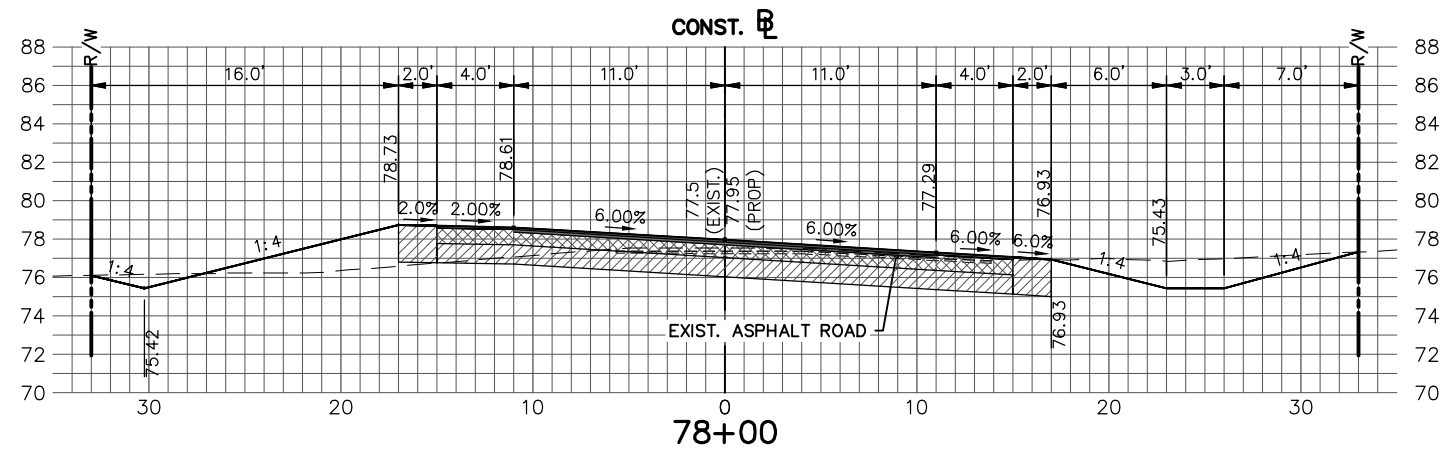
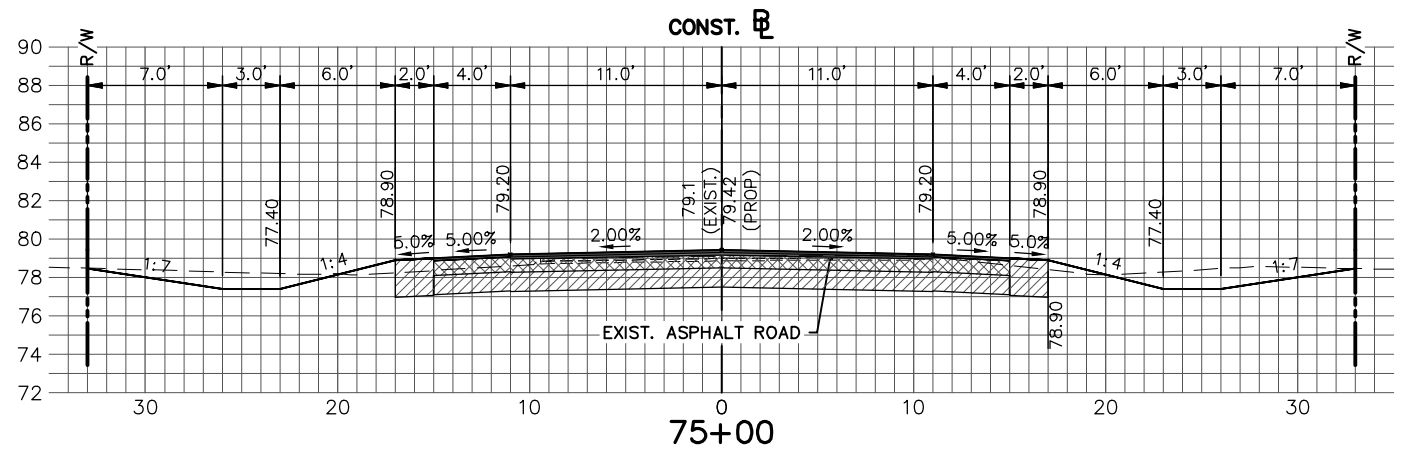
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**LAKE JOSEPHINE DRIVE  
IMPROVEMENTS**  
CROSS SECTIONS

SCALE: HORIZ. 1"=10' VERT. 1"=10'	
PROJECT NO. 13008	REV. 0
SHEET 58 OF 71	

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REVISIONS			STATUS	
DATE	BY	DESCRIPTION		
			<b>FOR BID</b>	

DESIGNED BY:  
ELIUS F. NORTELUS, P.E.

DRAWN BY:  
DOUG NIETUBICZ

CHECKED BY:  
KEITH BAKER, E.I.

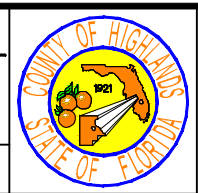
IN CHARGE:  
ELIUS F. NORTELUS, P.E.

DATE:  
10/27/2016

**HIGHLANDS COUNTY  
ENGINEERING DEPARTMENT**  
505 S. COMMERCE AVENUE  
SEBRING, FLORIDA 33870

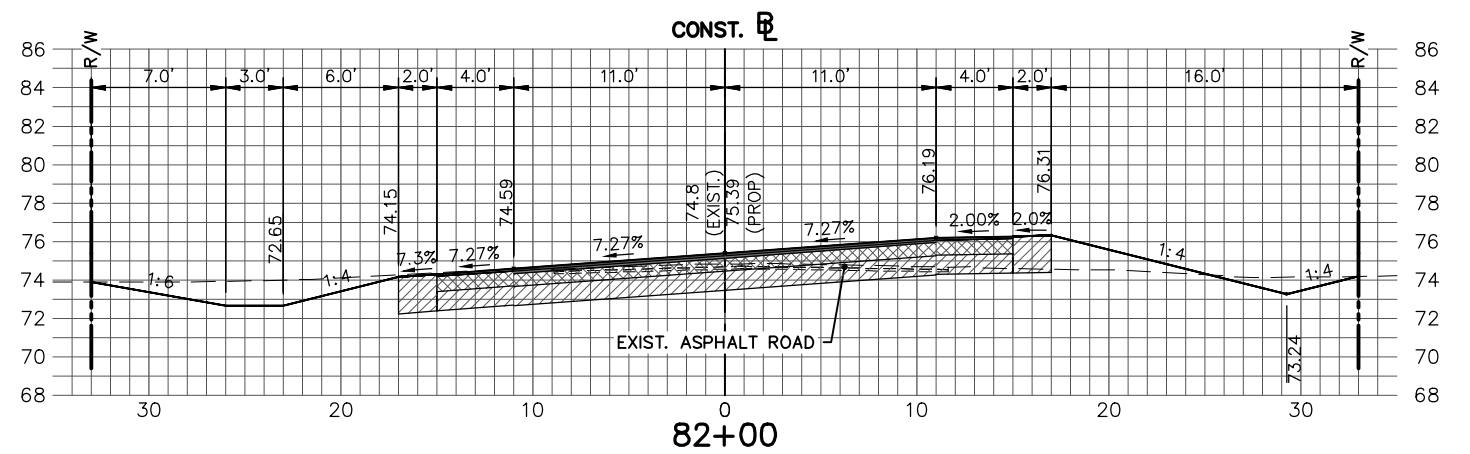
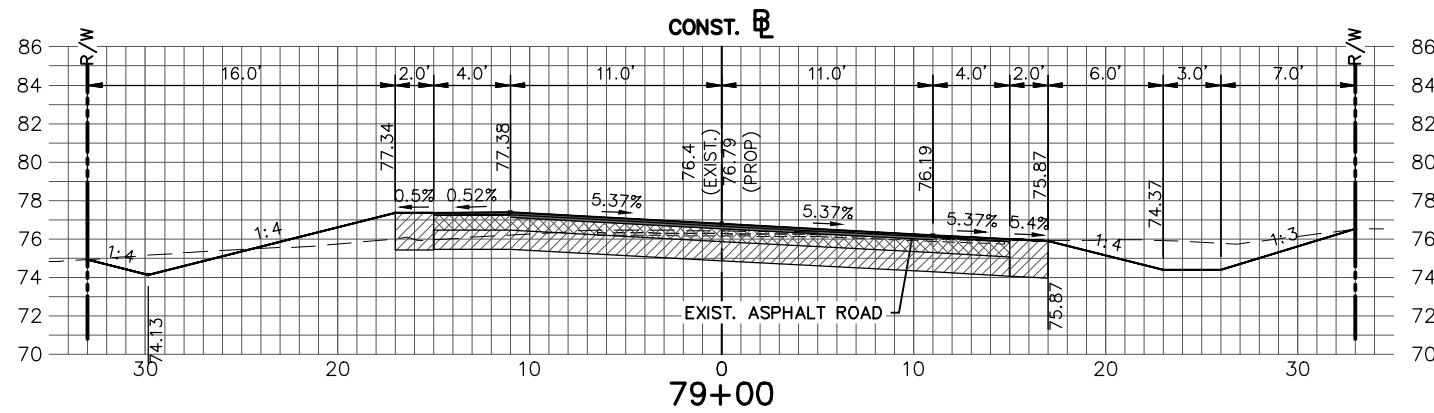
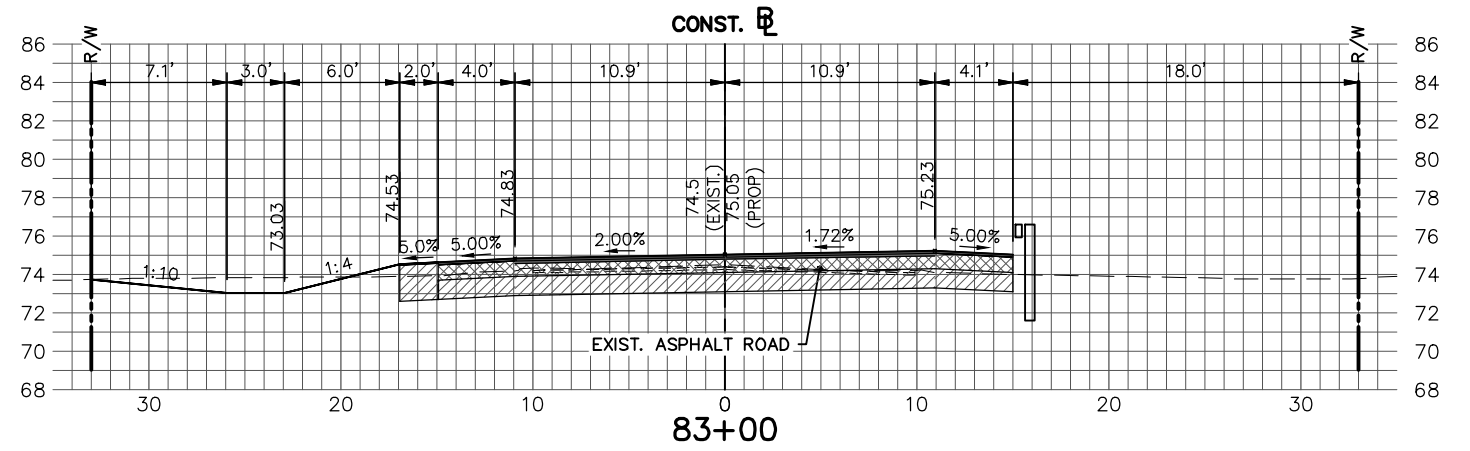
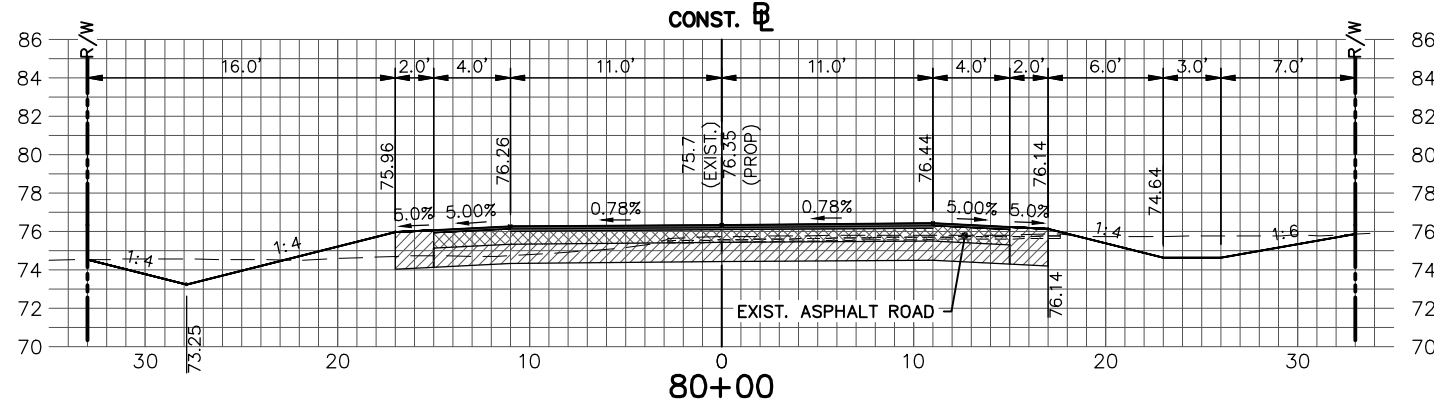
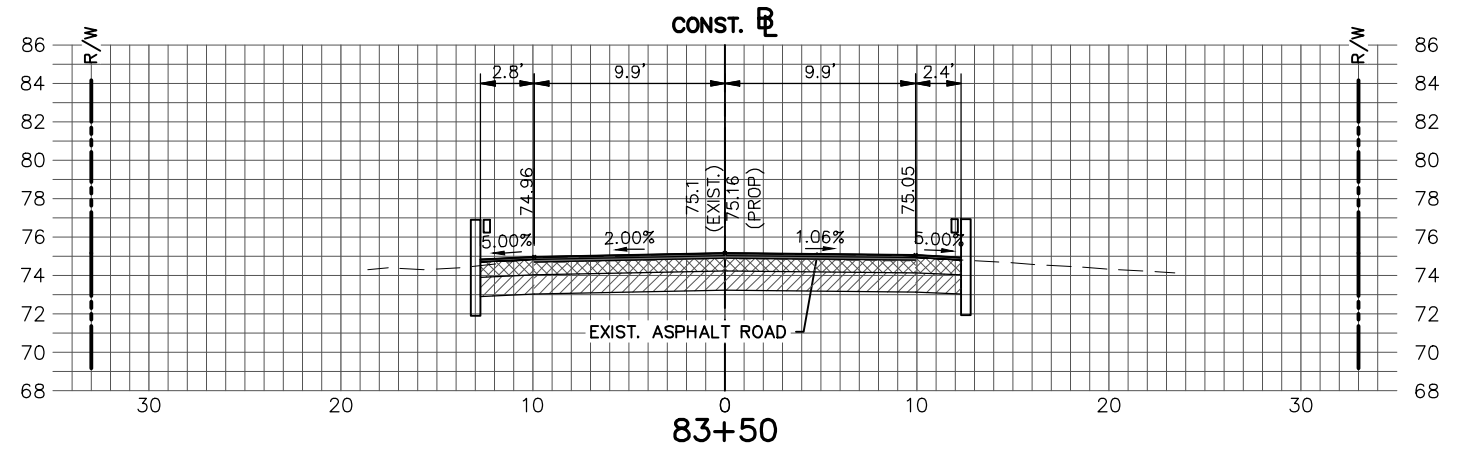
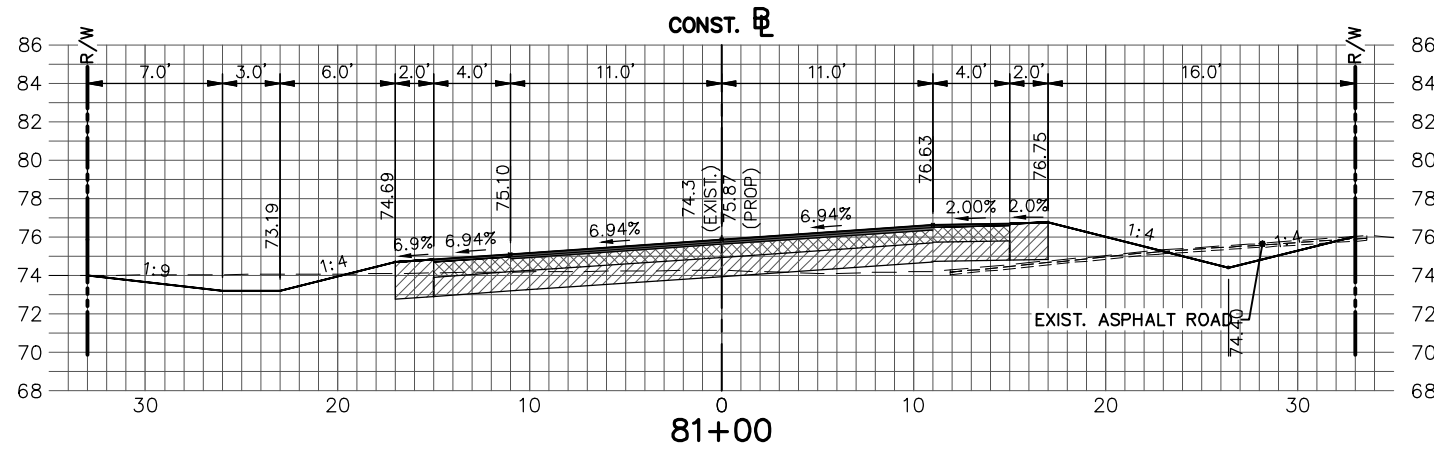
APPROVED BY: ELIUS F. NORTELUS, P.E.  
FLORIDA REGISTRATION NO.: 70092

DATE:



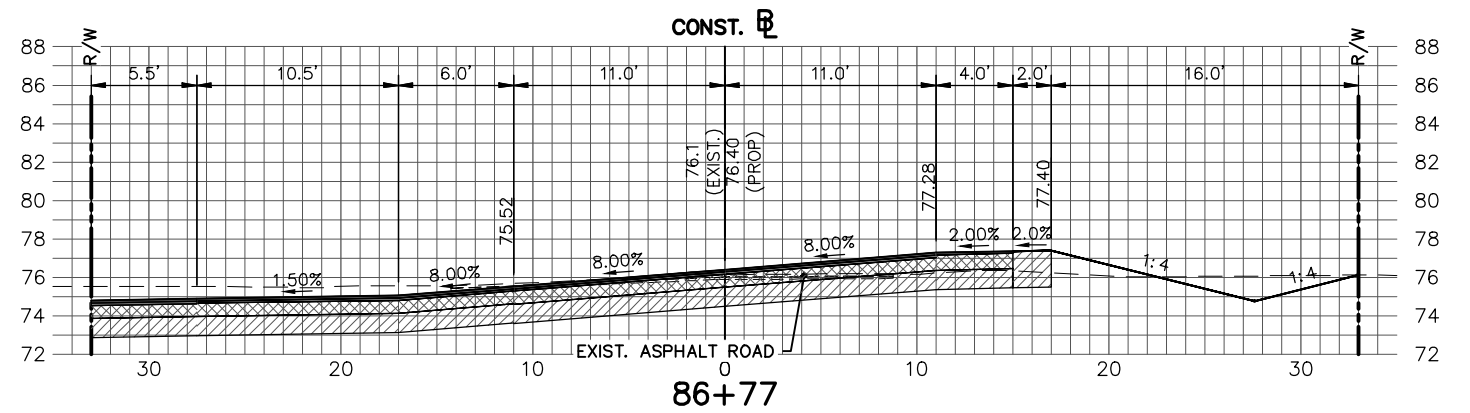
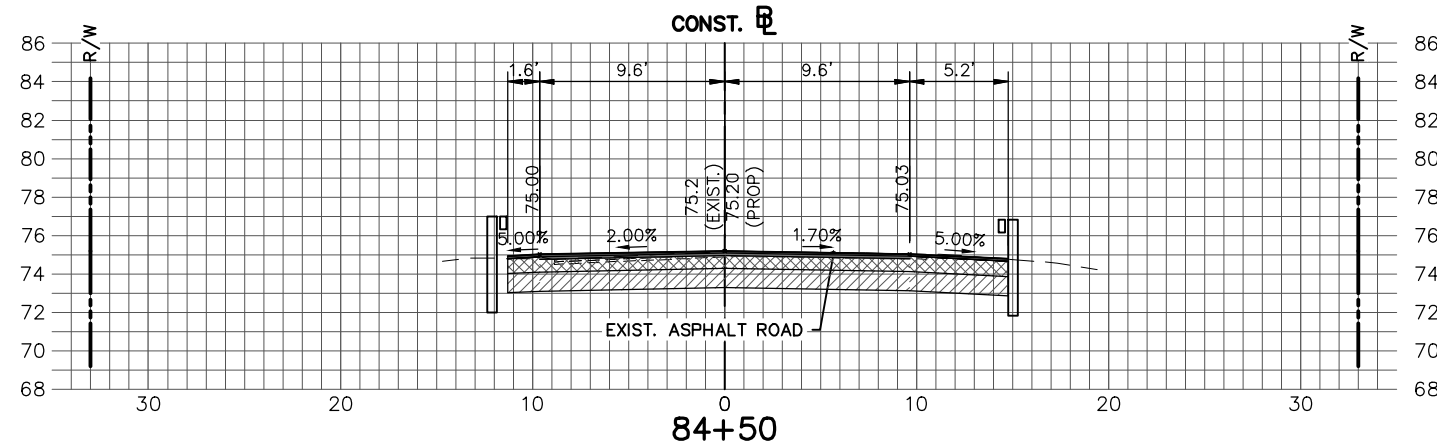
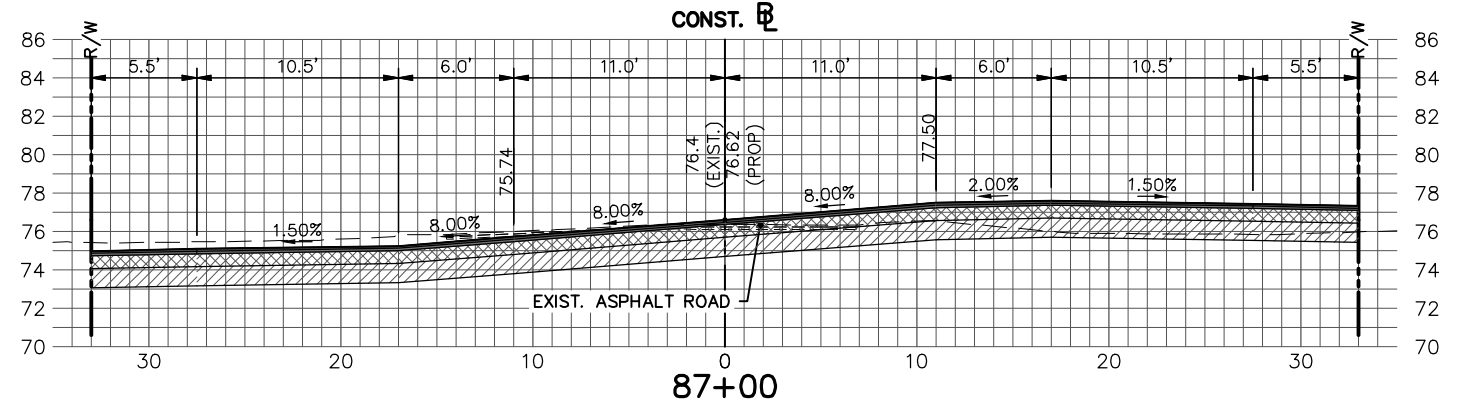
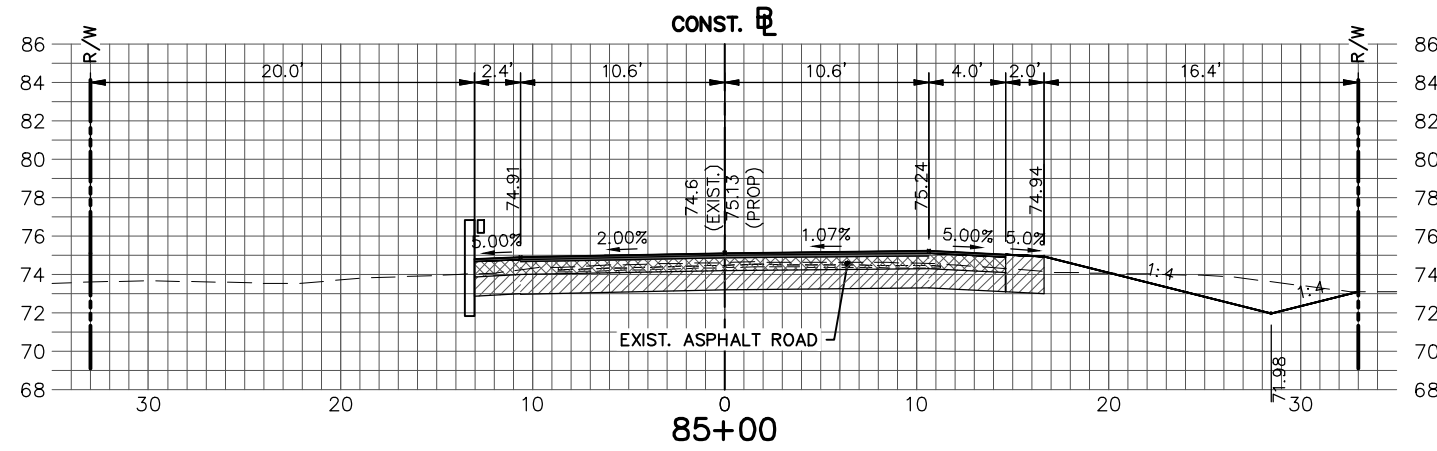
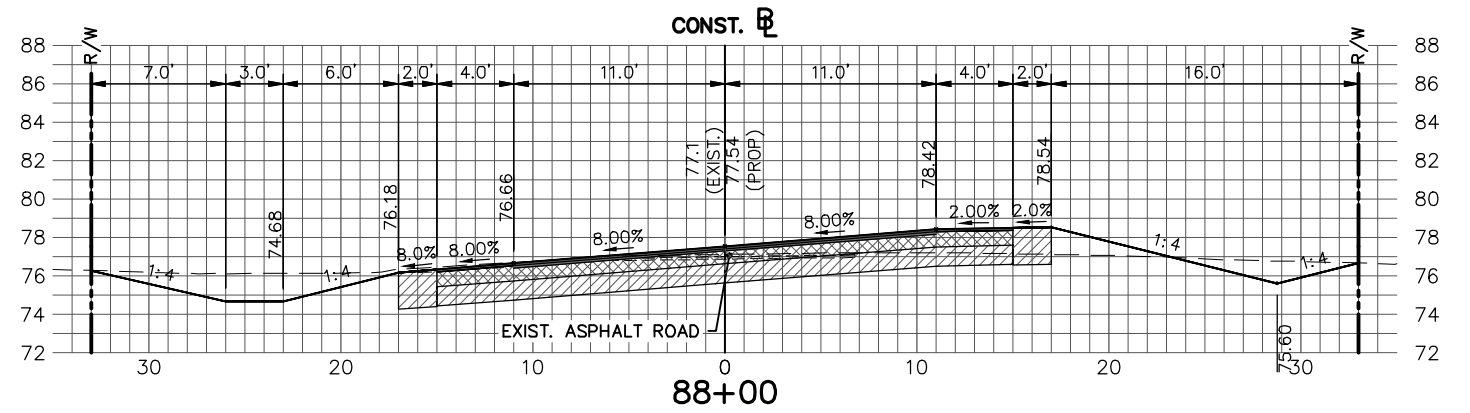
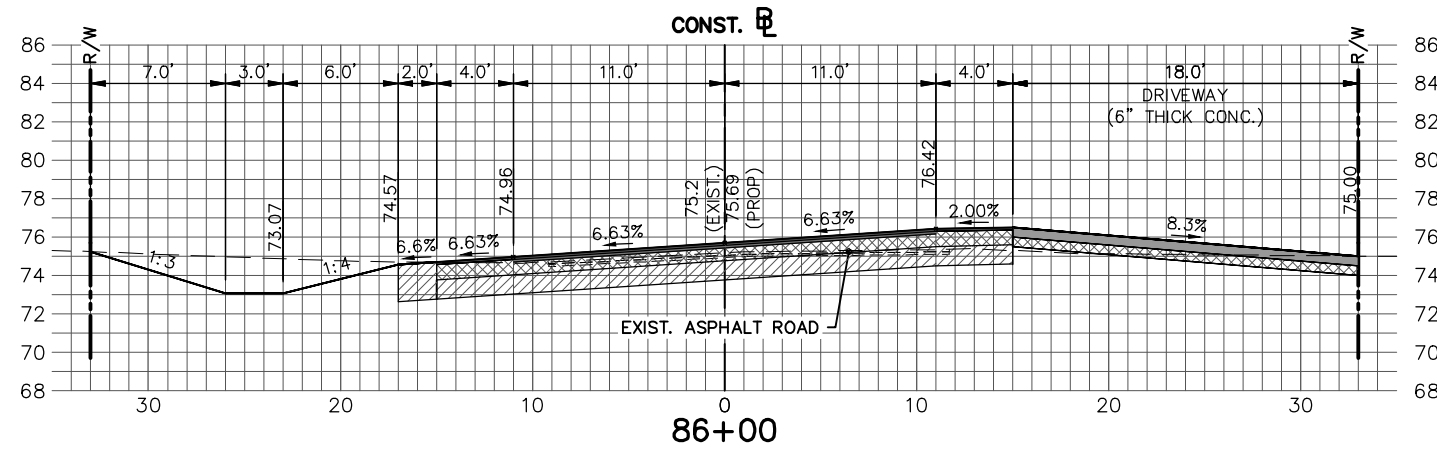
LAKE JOSEPHINE DRIVE  
IMPROVEMENTS  
CROSS SECTIONS

SCALE: HORIZ. 1"=10' VERT. 1"=10'	
PROJECT NO. 13008	REV. 0
SHEET 59 OF 71	



REVISIONS			STATUS		<b>FOR BID</b>	<b>HIGHLANDS COUNTY</b> <b>ENGINEERING DEPARTMENT</b> 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870		LAKE JOSEPHINE DRIVE IMPROVEMENTS		SCALE:	
DATE	BY	DESCRIPTION								CROSS SECTIONS	
DESIGNED BY: ELIUS F. NORTELUS, P.E. DRAWN BY: DOUG NIETUBICZ CHECKED BY: KEITH BAKER, E.I. IN CHARGE: ELIUS F. NORTELUS, P.E.						APPROVED BY: ELIUS F. NORTELUS, P.E. FLORIDA REGISTRATION NO.: 70092		DATE: 10/27/2016		PROJECT NO. 13008	REV. 0
SHEET 60 OF 71											

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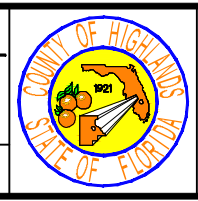


REVISIONS		STATUS	DESIGNED BY: ELIUS F. NORTELIUS, P.E.
DATE	BY		
		<b>FOR BID</b>	DRAWN BY: DOUG NIETUBICZ
			CHECKED BY: KEITH BAKER, E.I.
			IN CHARGE: ELIUS F. NORTELIUS, P.E.
			DATE: 10/27/2016

**HIGHLANDS COUNTY  
ENGINEERING DEPARTMENT**  
505 S. COMMERCE AVENUE  
SEBRING, FLORIDA 33870

APPROVED BY: ELIUS F. NORTELIUS, P.E.  
FLORIDA REGISTRATION NO.: 70092

DATE: \_\_\_\_\_



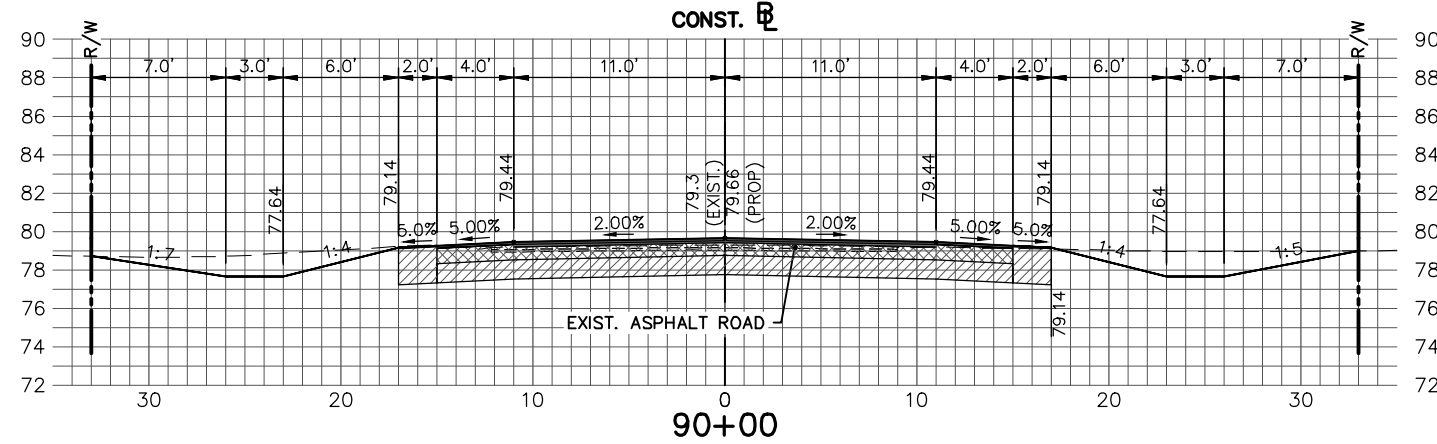
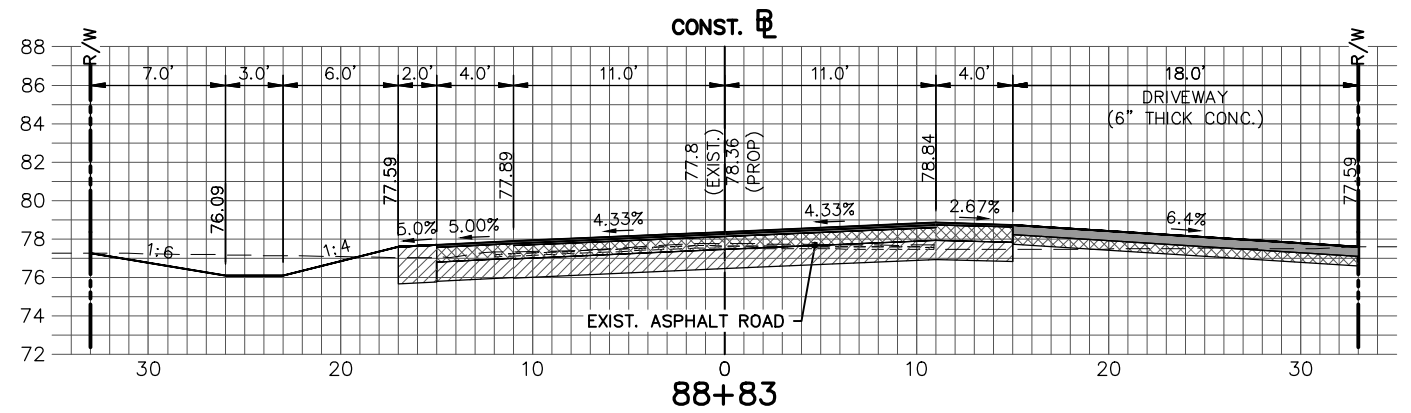
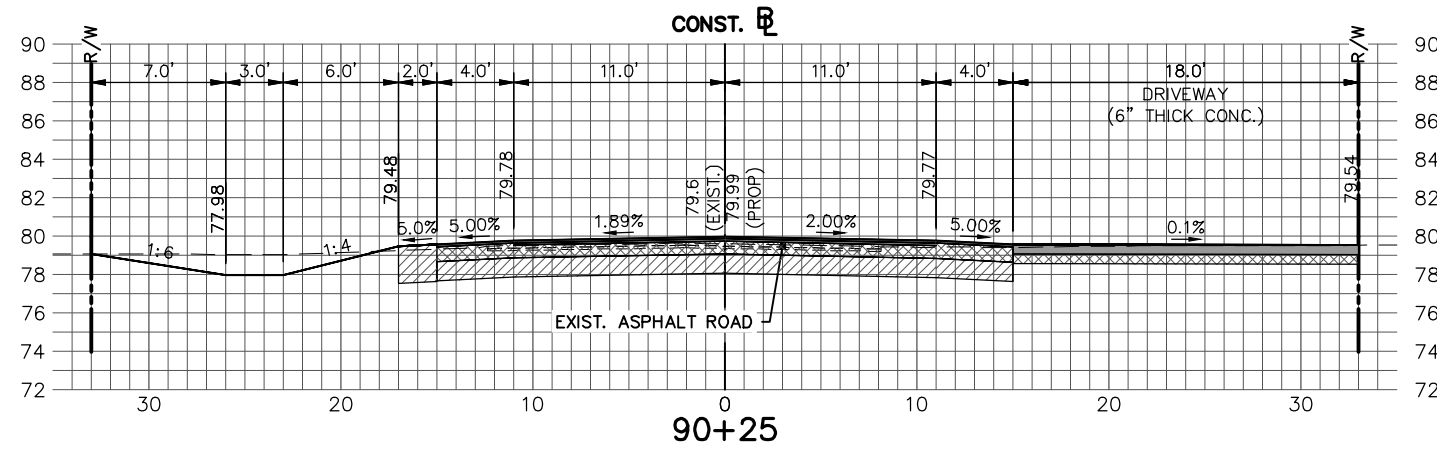
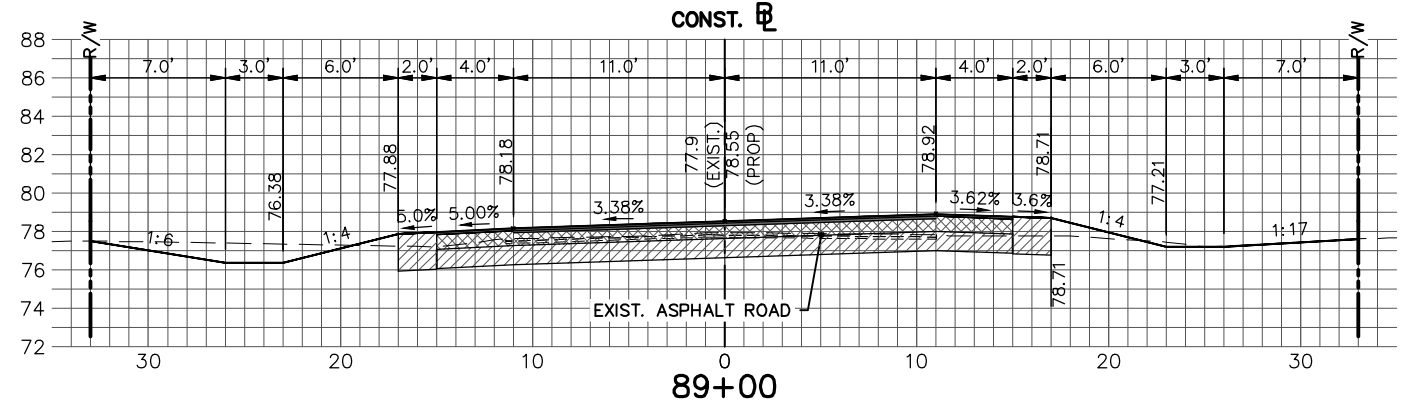
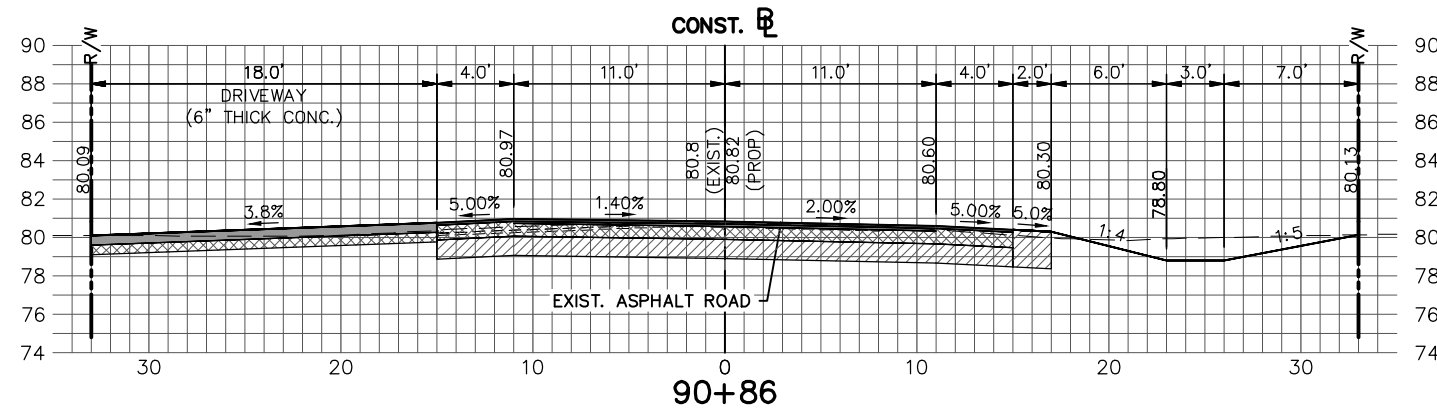
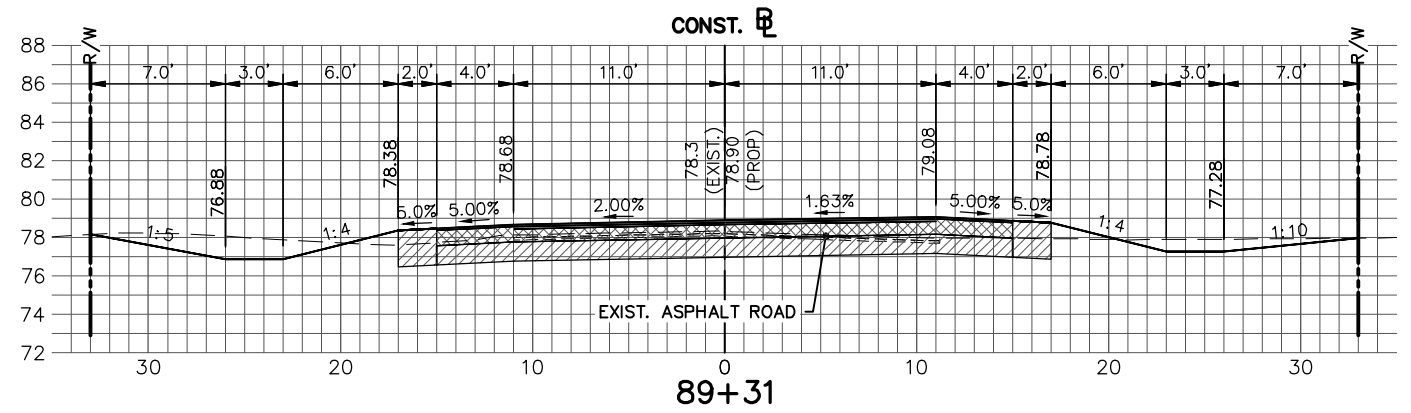
**LAKE JOSEPHINE DRIVE  
IMPROVEMENTS  
CROSS SECTIONS**

SCALE:  
HORIZ. 1"=10'  
VERT. 1"=10'

PROJECT NO. 13008    REV. 0

SHEET 61 OF 71

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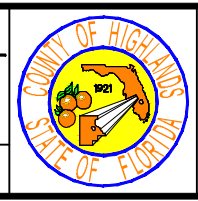
REVISIONS			STATUS
DATE	BY	DESCRIPTION	
			<b>FOR BID</b>

DESIGNED BY: ELIUS F. NORTELUS, P.E.  
 DRAWN BY: DOUG NIETUBICZ  
 CHECKED BY: KEITH BAKER, E.I.  
 IN CHARGE: ELIUS F. NORTELUS, P.E.

**HIGHLANDS COUNTY  
 ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870

APPROVED BY: ELIUS F. NORTELUS, P.E.  
 FLORIDA REGISTRATION NO.: 70092

DATE: 10/27/2016



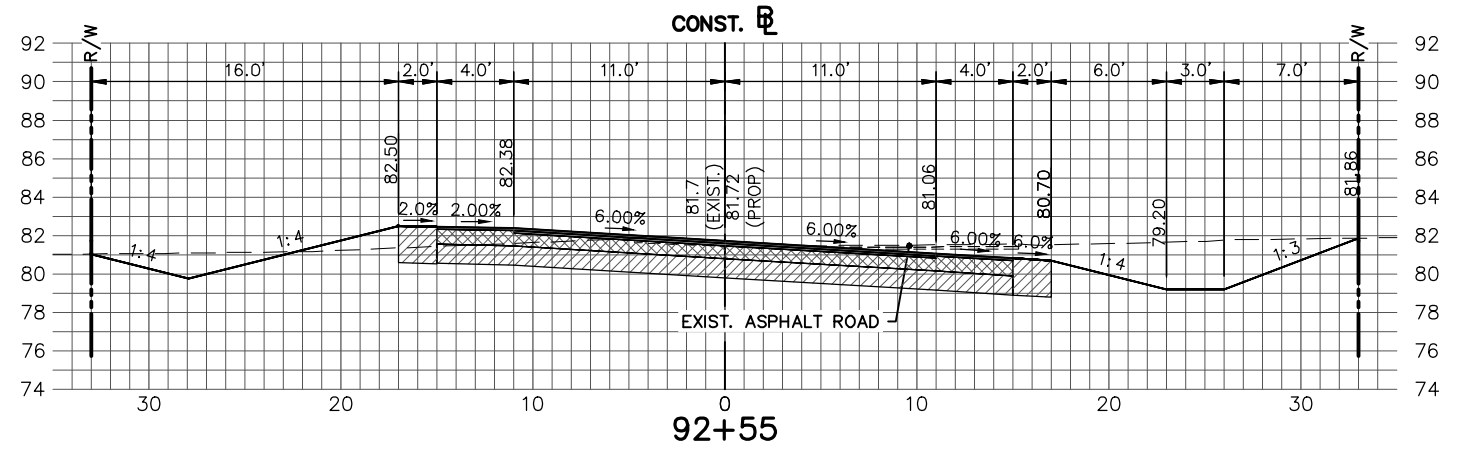
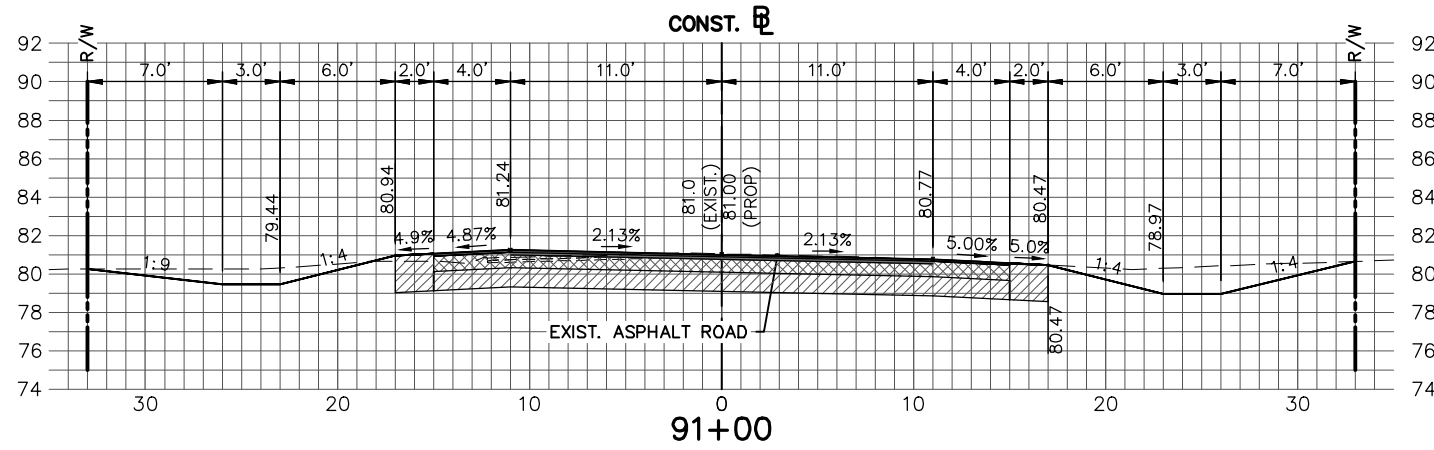
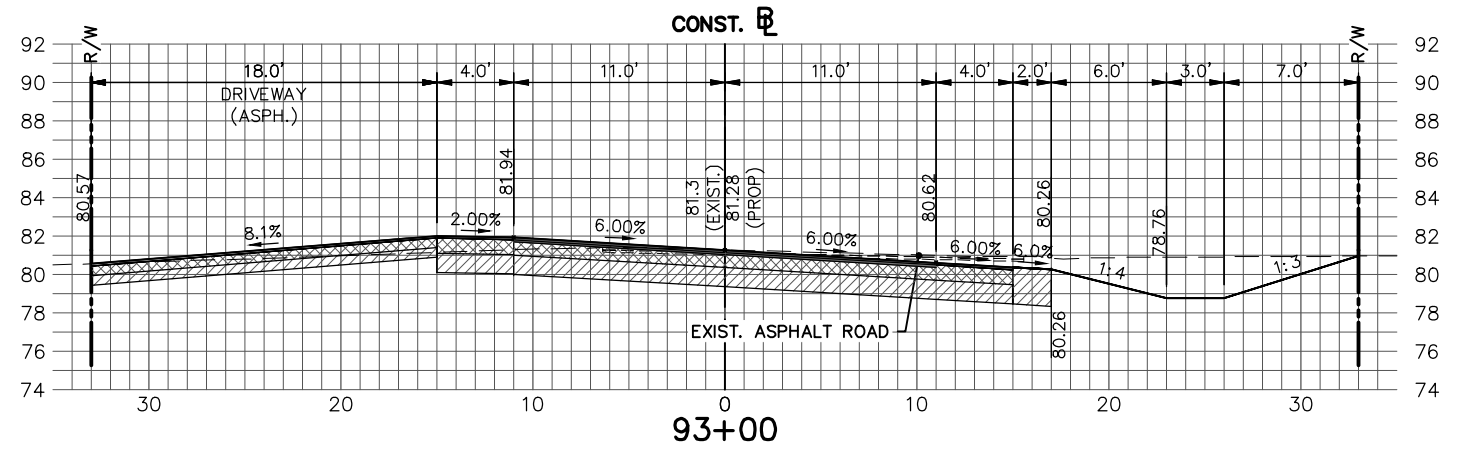
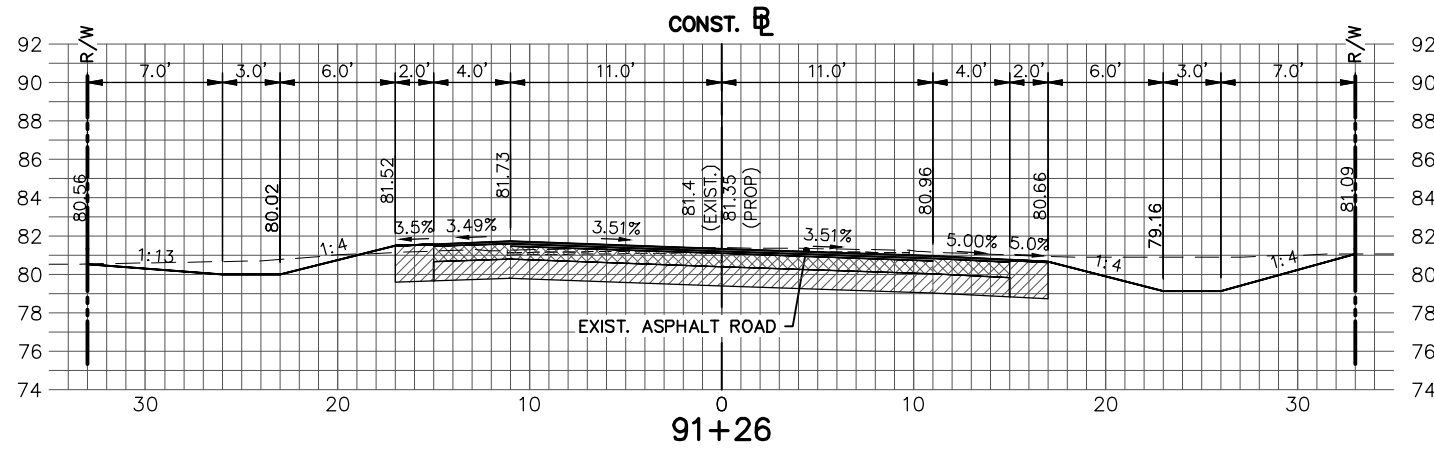
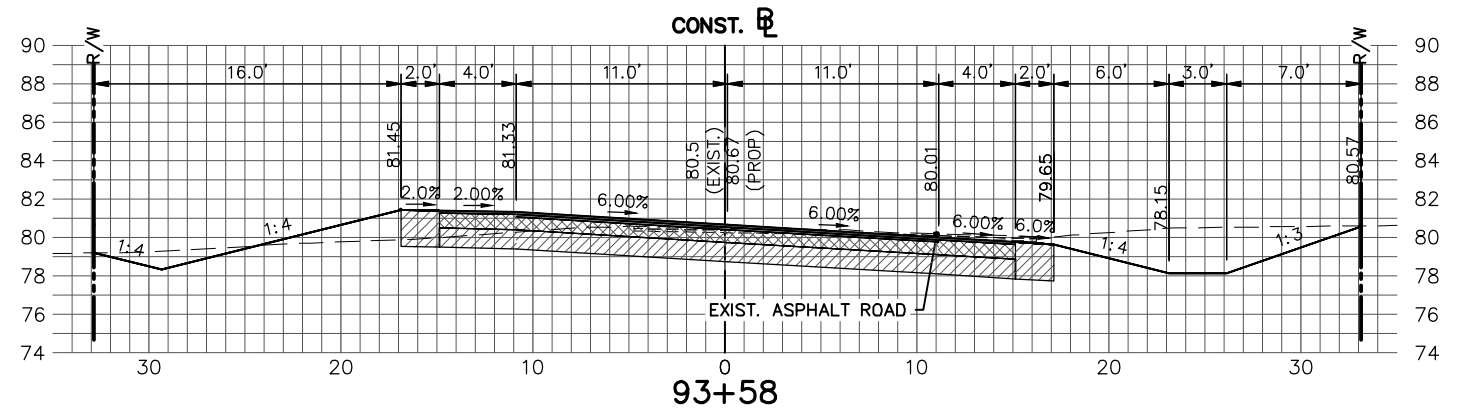
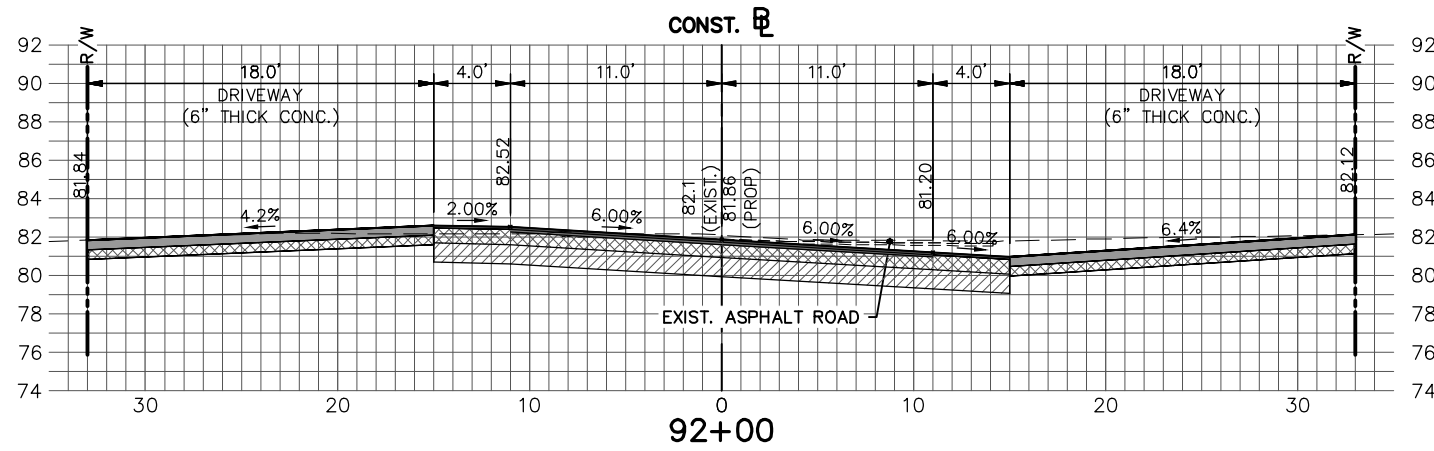
**LAKE JOSEPHINE DRIVE  
 IMPROVEMENTS  
 CROSS SECTIONS**

SCALE:  
 HORIZ. 1"=10'  
 VERT. 1"=10'

PROJECT NO. 13008    REV. 0

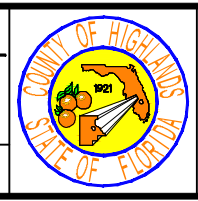
SHEET 62 OF 71

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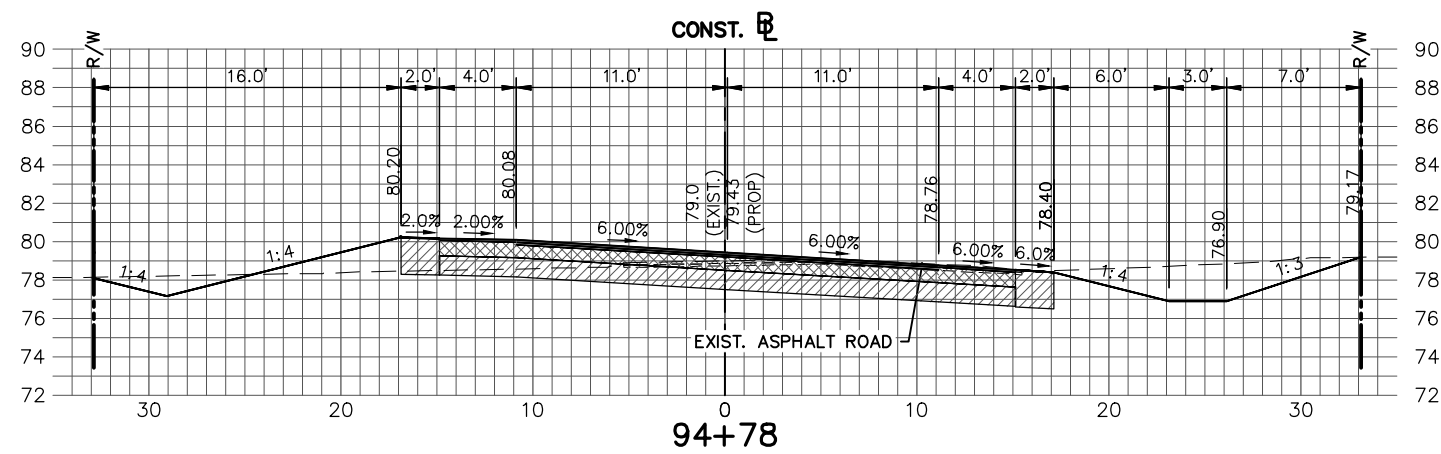
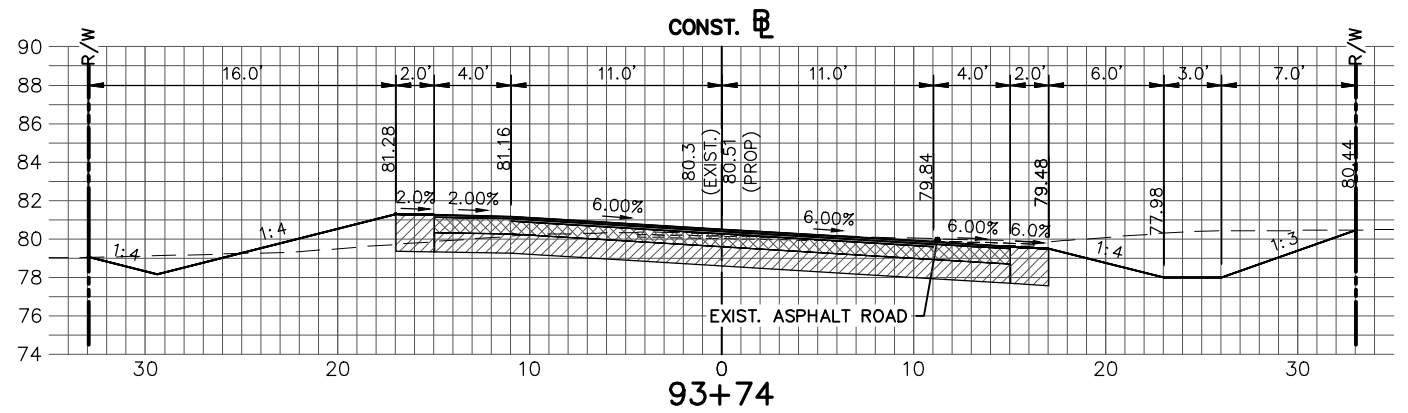
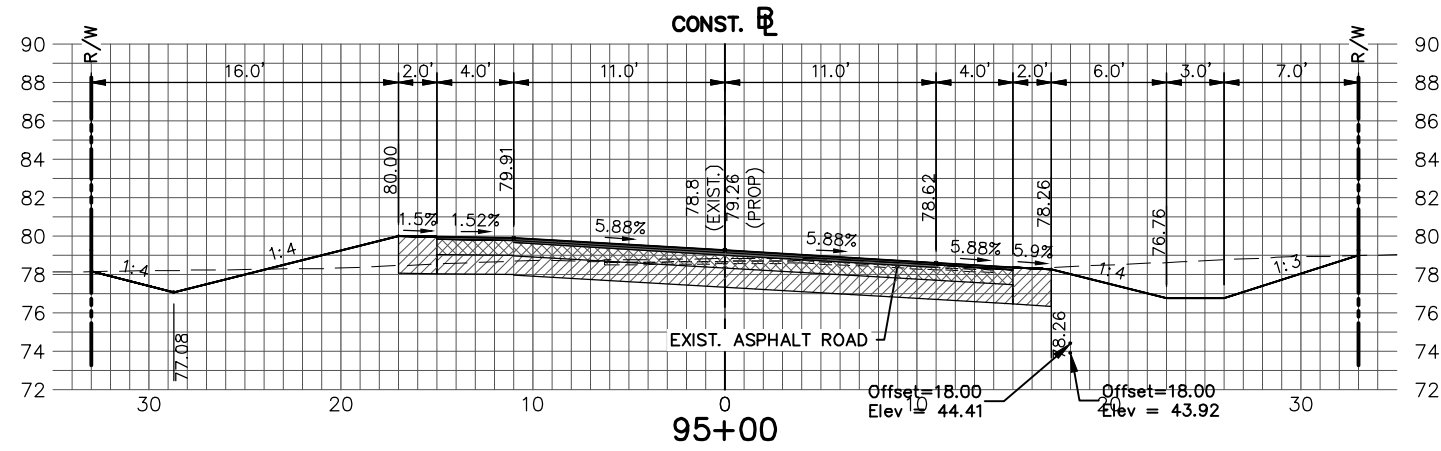
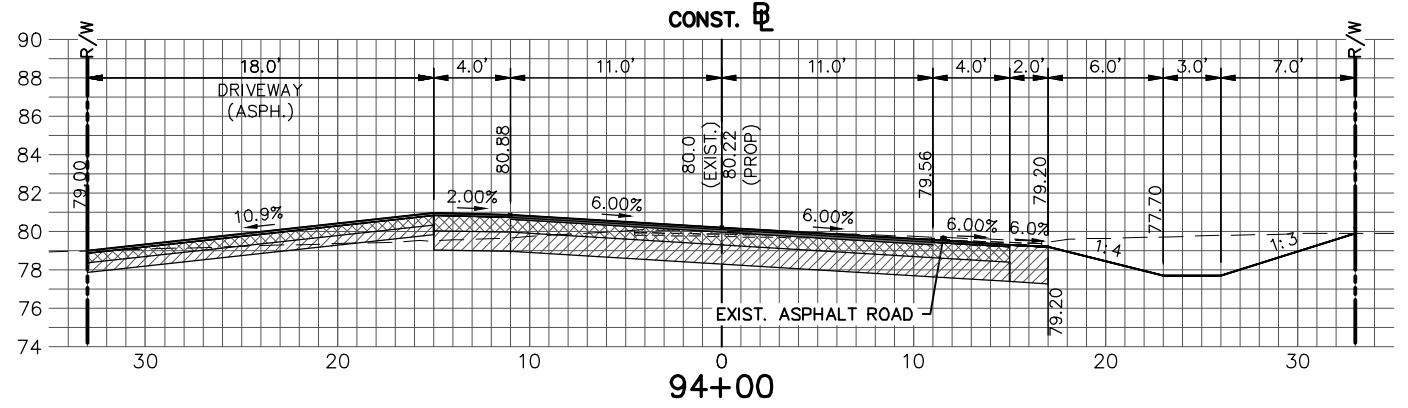
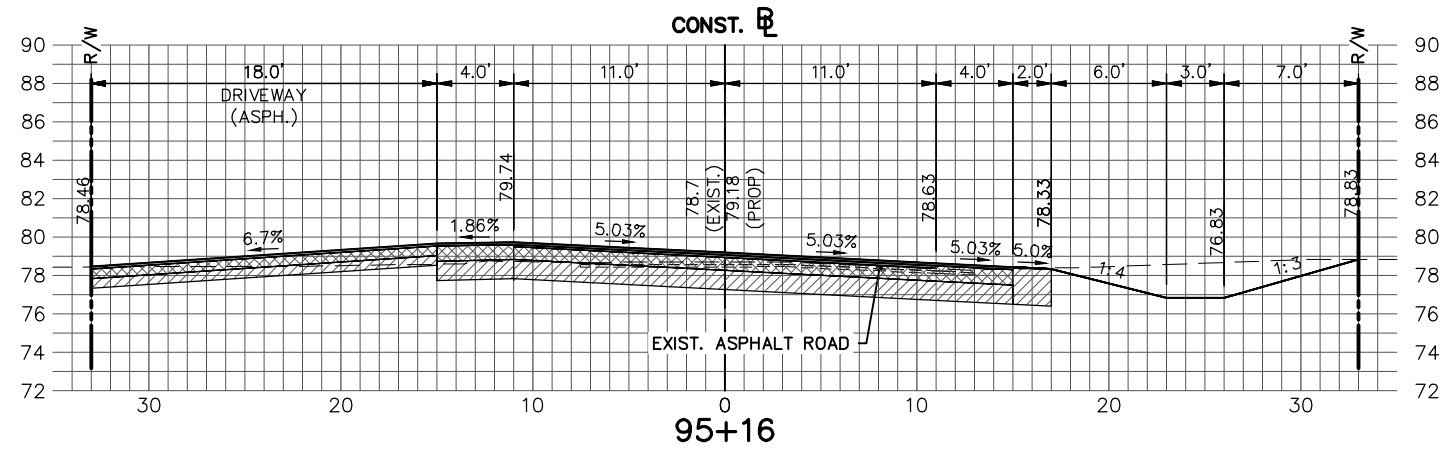
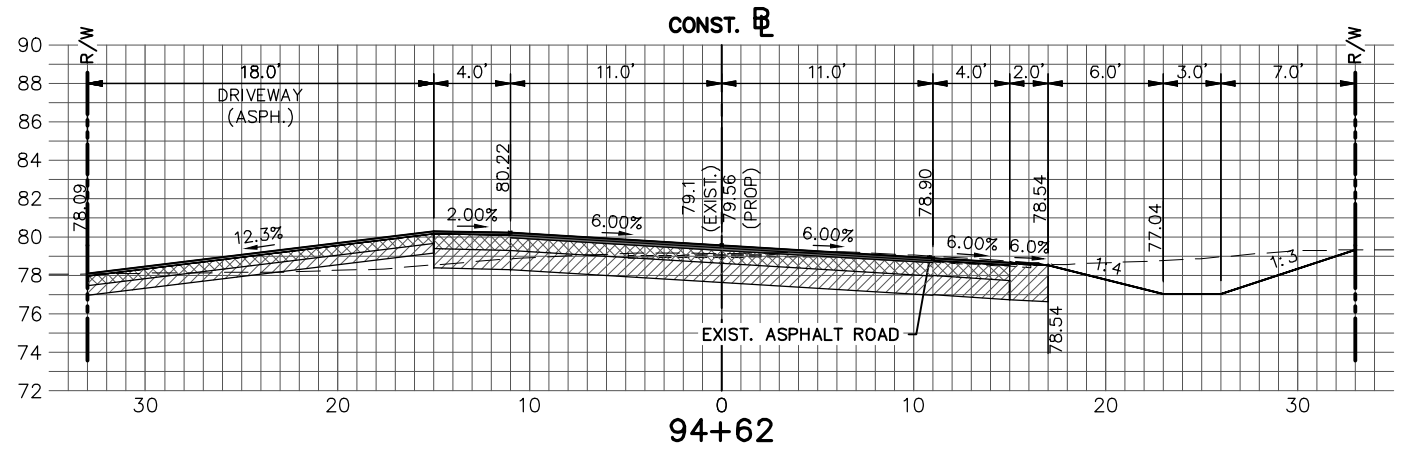


REVISIONS			STATUS
DATE	BY	DESCRIPTION	
			<b>FOR BID</b>

DESIGNED BY: ELIUS F. NORTELUS, P.E.  
 DRAWN BY: DOUG NIETUBICZ  
 CHECKED BY: KEITH BAKER, E.I.  
 IN CHARGE: ELIUS F. NORTELUS, P.E.  
**HIGHLANDS COUNTY ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870  
 APPROVED BY: ELIUS F. NORTELUS, P.E.  
 FLORIDA REGISTRATION NO.: 70092

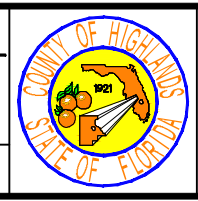


SCALE:  
 HORIZ. 1"=10'  
 VERT. 1"=10'  
 PROJECT NO. 13008  
 REV. 0  
**LAKE JOSEPHINE DRIVE IMPROVEMENTS**  
**CROSS SECTIONS**  
 SHEET 63 OF 71



REVISIONS			STATUS
DATE	BY	DESCRIPTION	
			<b>FOR BID</b>

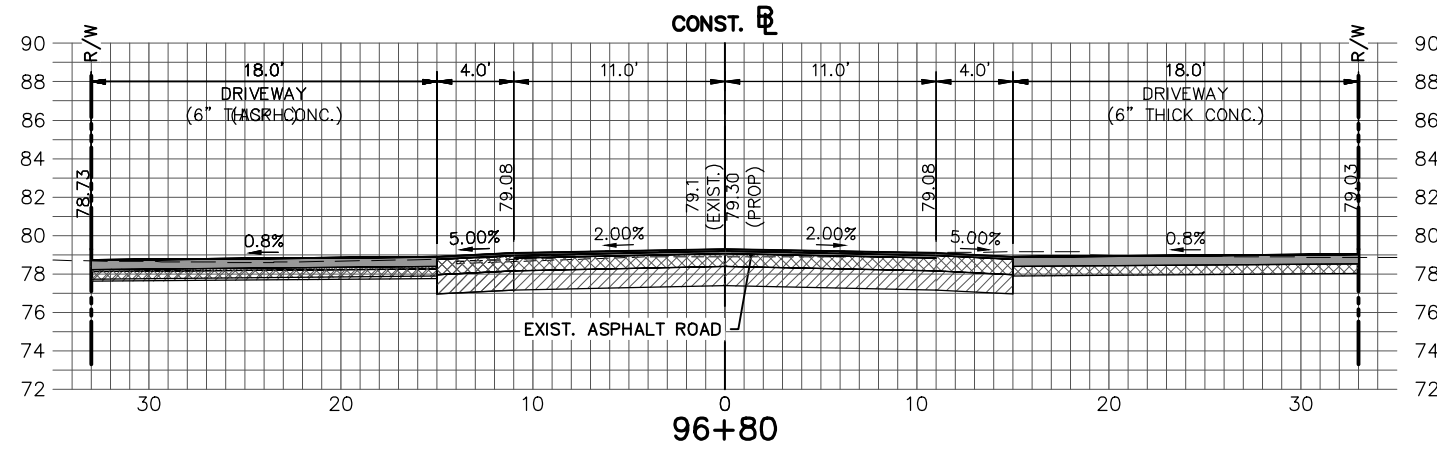
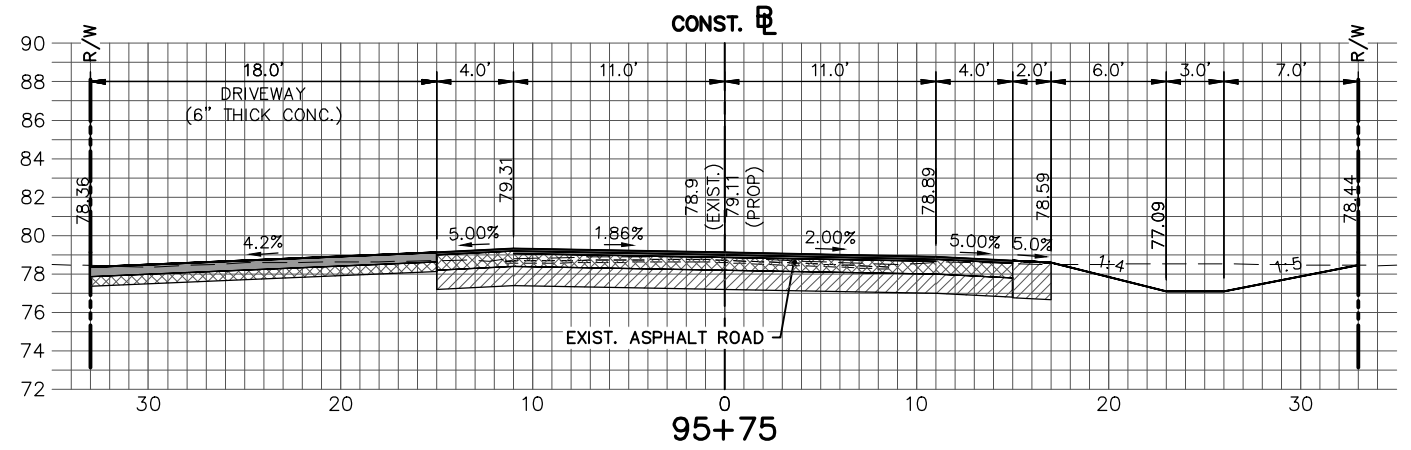
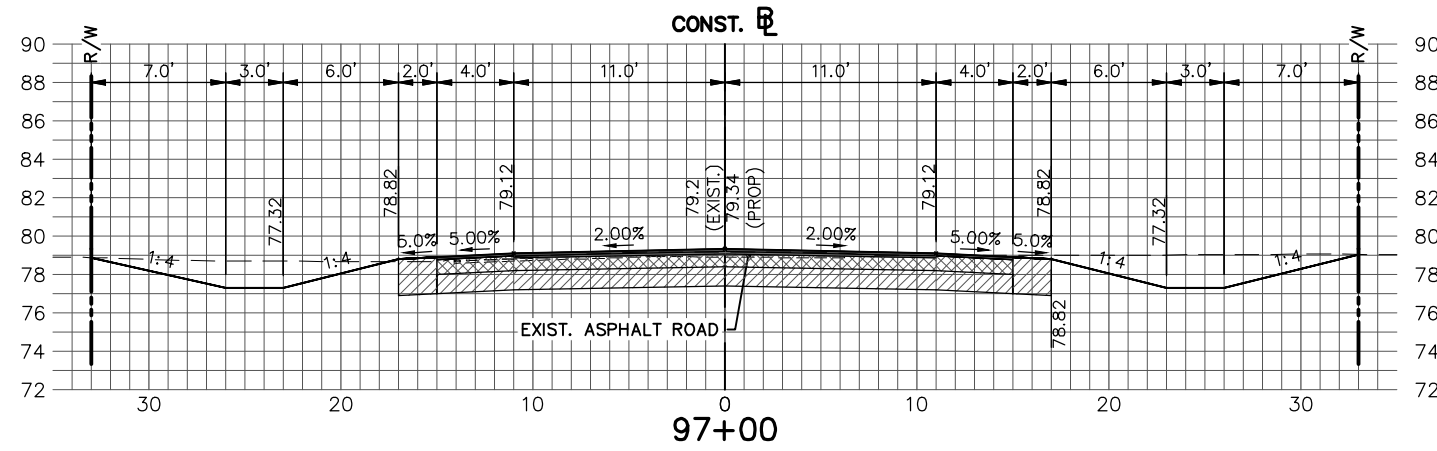
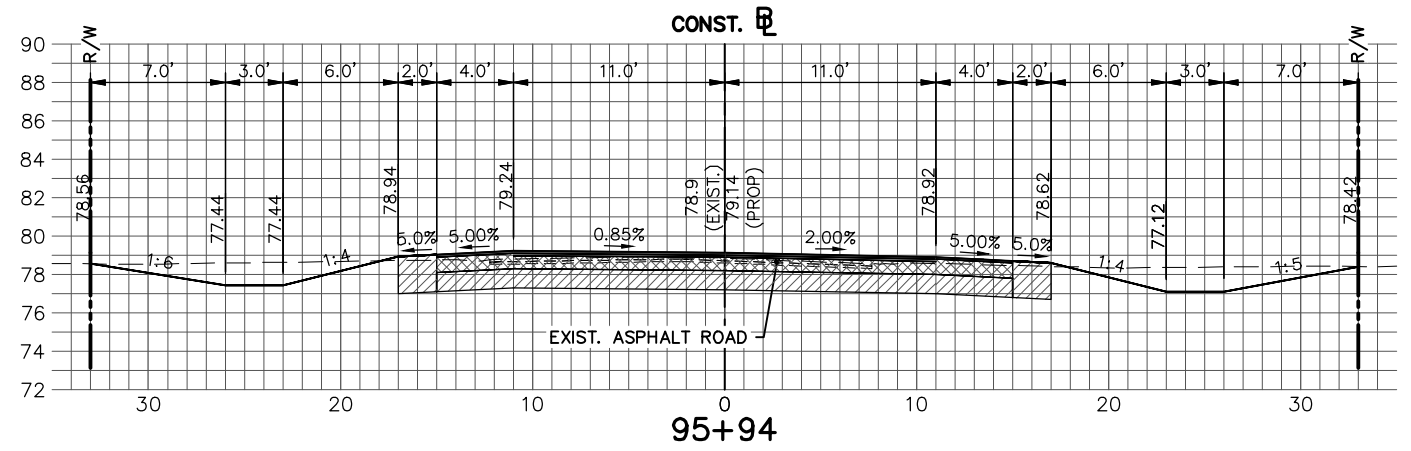
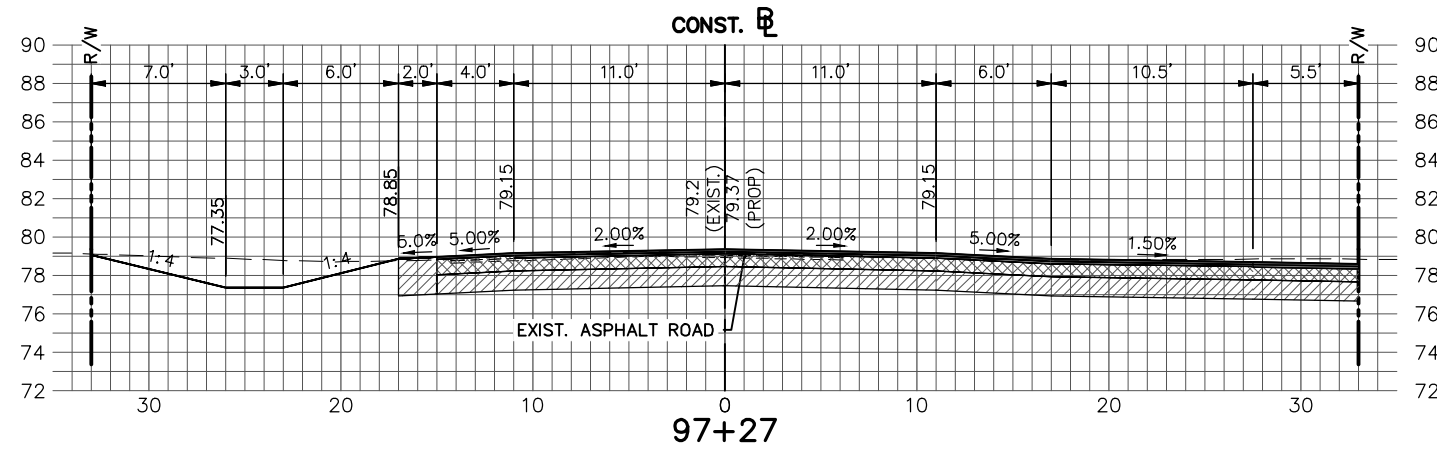
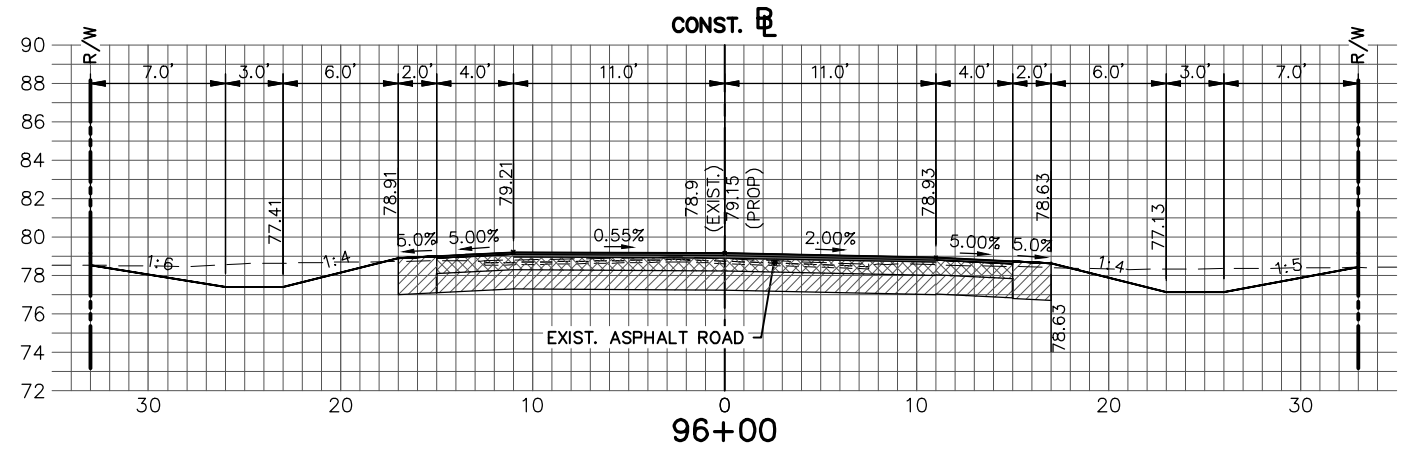
DESIGNED BY: ELIUS F. NORTELUS, P.E.  
 DRAWN BY: DOUG NIETUBICZ  
 CHECKED BY: KEITH BAKER, E.I.  
 IN CHARGE: ELIUS F. NORTELUS, P.E.  
**HIGHLANDS COUNTY ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870  
 APPROVED BY: ELIUS F. NORTELUS, P.E.  
 FLORIDA REGISTRATION NO.: 70092  
 DATE: 10/27/2016



SCALE:  
 HORIZ. 1"=10'  
 VERT. 1"=10'  
 PROJECT NO. 13008  
 REV. 0  
**LAKE JOSEPHINE DRIVE IMPROVEMENTS**  
**CROSS SECTIONS**  
 SHEET 64 OF 71

G:\PROJECTS\2013\13008 Lake Josephine Drive Resurfacing\Drawings\Full Depth Reconstruction Option\Cross Section Sheets Lake Josephine.dwg, Cross Section Sheets Lake Josephine - Section Sheet - (20), Baker, Keith J. Colors As Black Except Gray





REVISIONS		STATUS
DATE	DESCRIPTION	
		<b>FOR BID</b>

DESIGNED BY:  
ELIUS F. NORTELUS, P.E.

DRAWN BY:  
DOUG NIETUBICZ

CHECKED BY:  
KEITH BAKER, E.I.

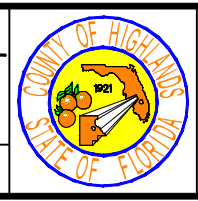
IN CHARGE:  
ELIUS F. NORTELUS, P.E.

DATE:  
10/27/2016

**HIGHLANDS COUNTY  
ENGINEERING DEPARTMENT**  
505 S. COMMERCE AVENUE  
SEBRING, FLORIDA 33870

APPROVED BY: ELIUS F. NORTELUS, P.E.  
FLORIDA REGISTRATION NO.: 70092

DATE:

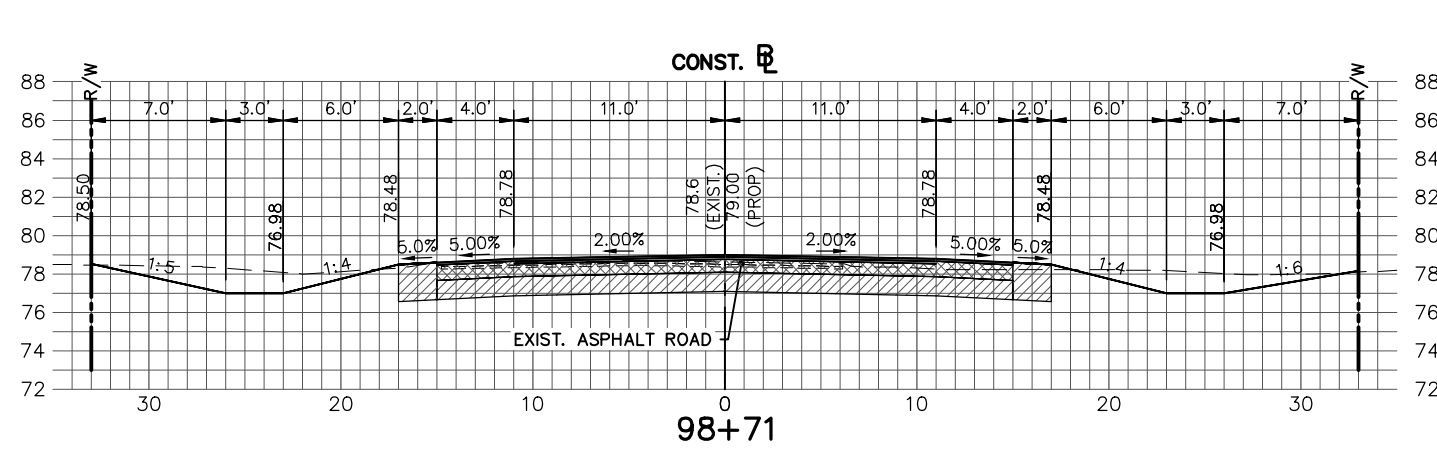
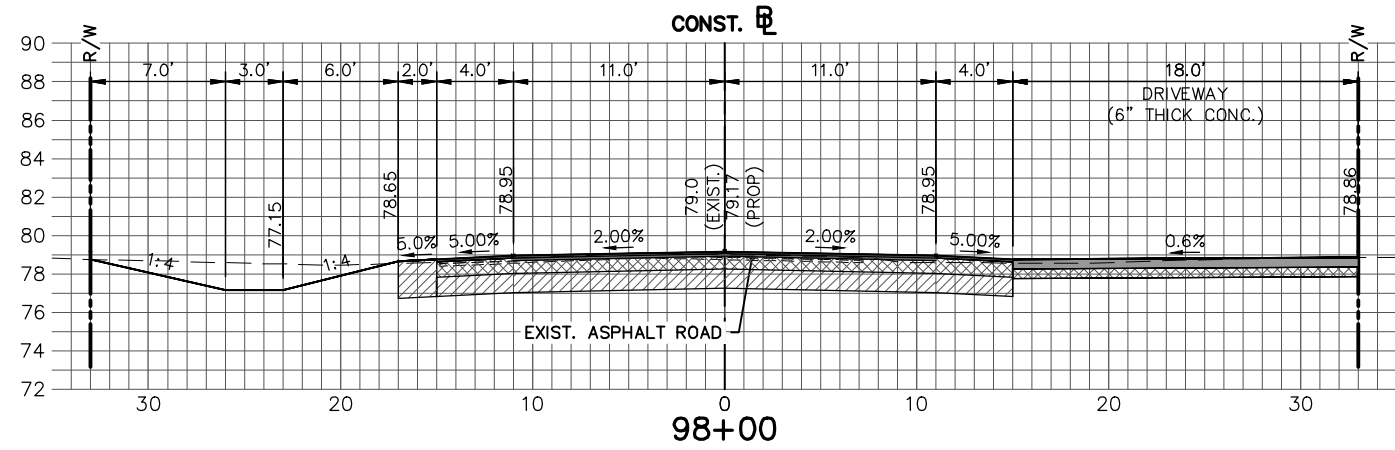
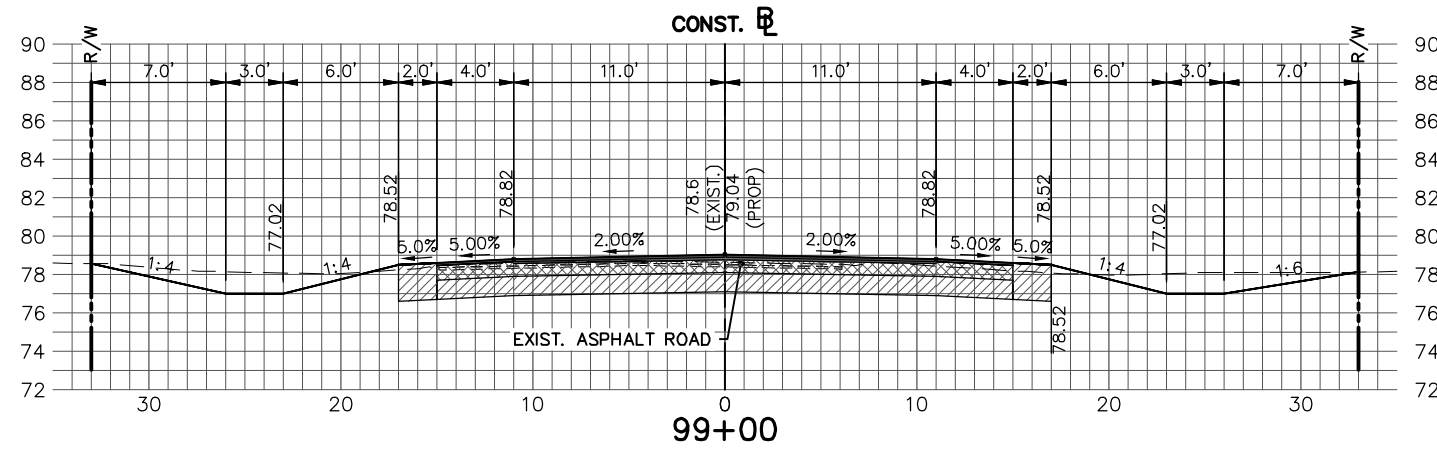
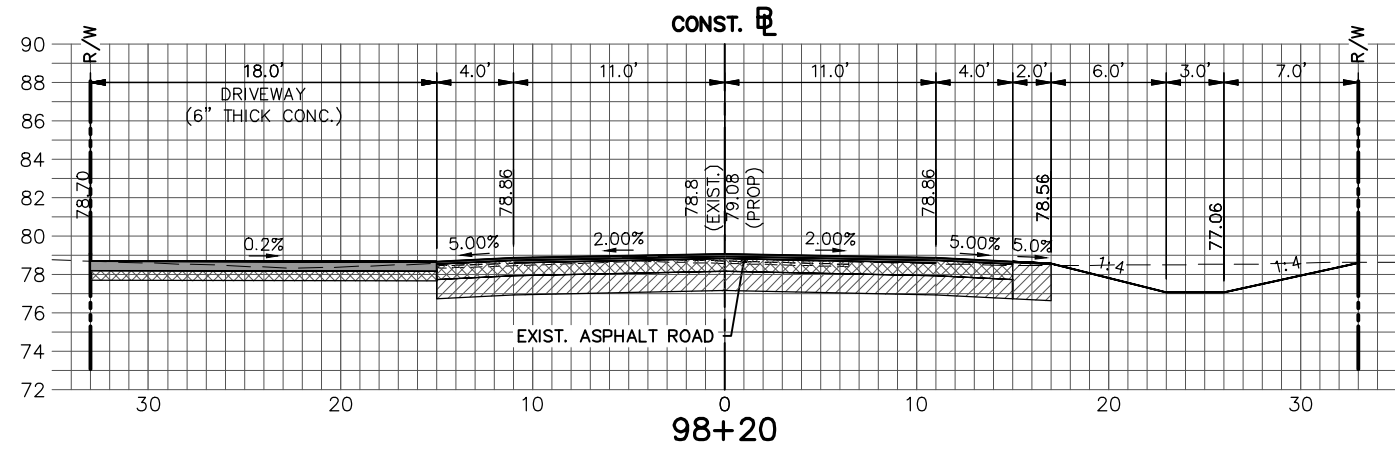
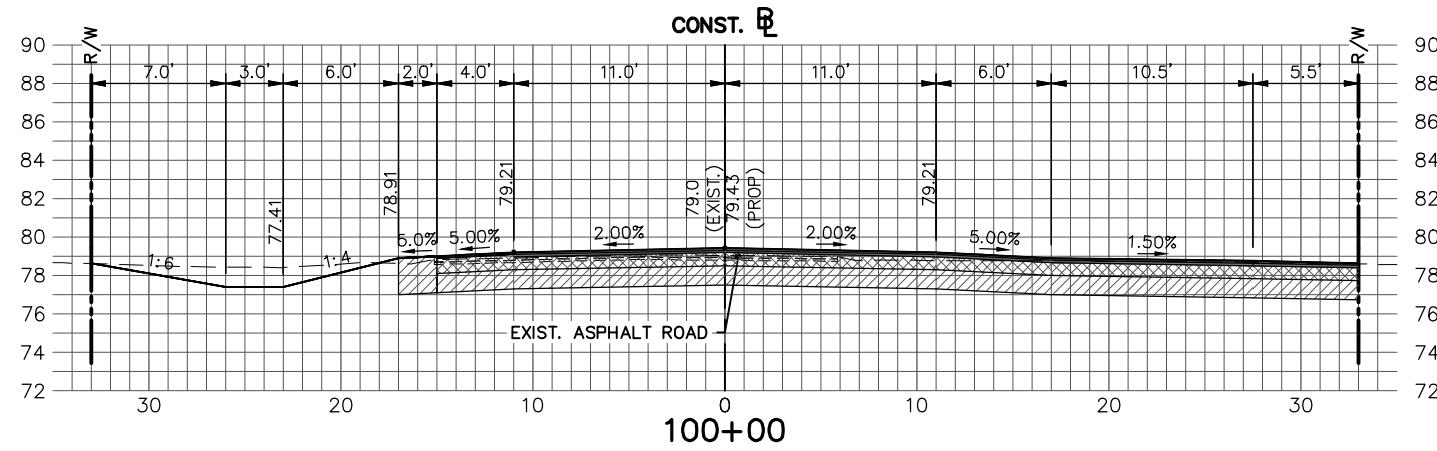
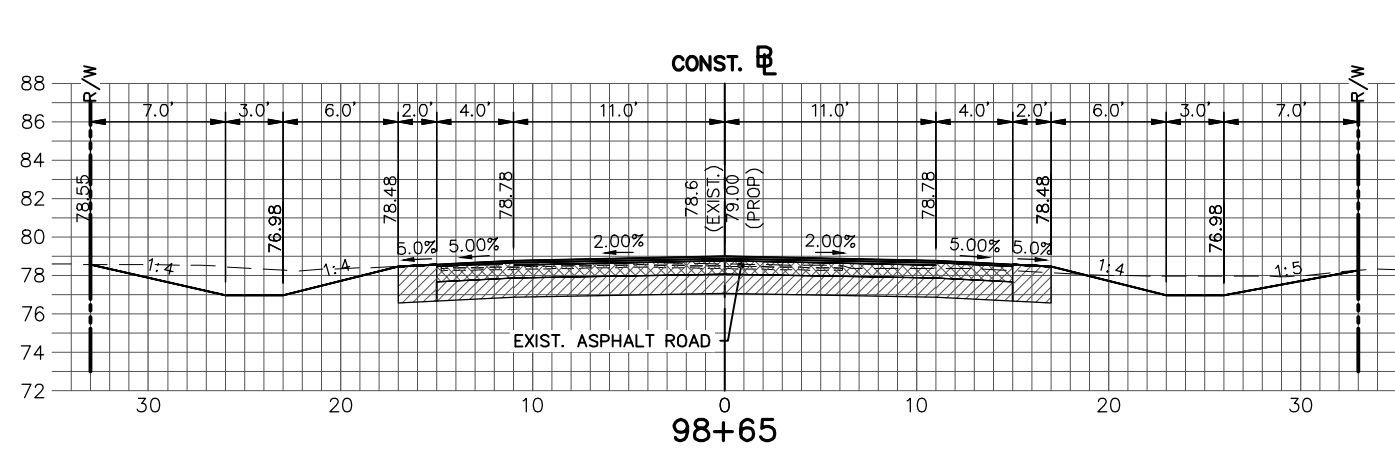


**LAKE JOSEPHINE DRIVE  
IMPROVEMENTS  
CROSS SECTIONS**

SCALE:  
HORIZ. 1"=10'  
VERT. 1"=10'

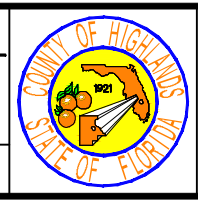
PROJECT NO. 13008    REV. 0

SHEET 65 OF 71

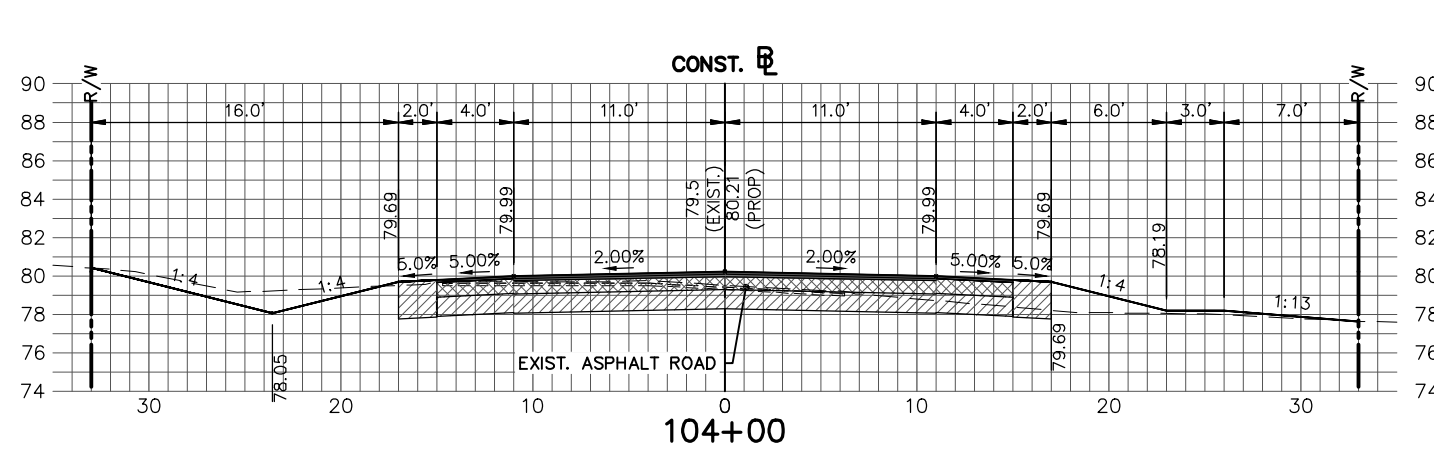
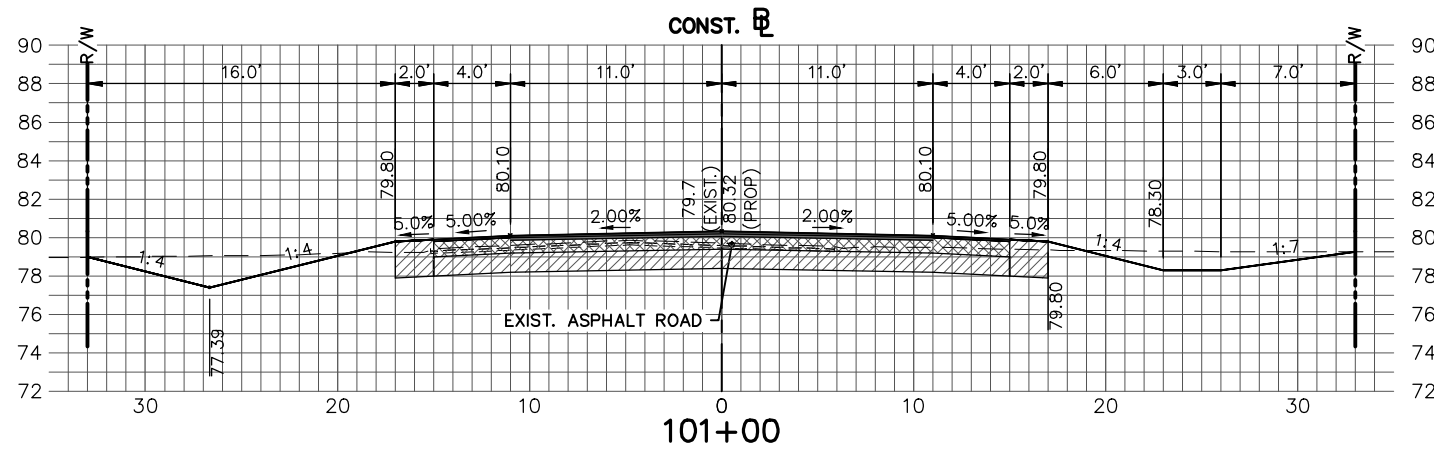
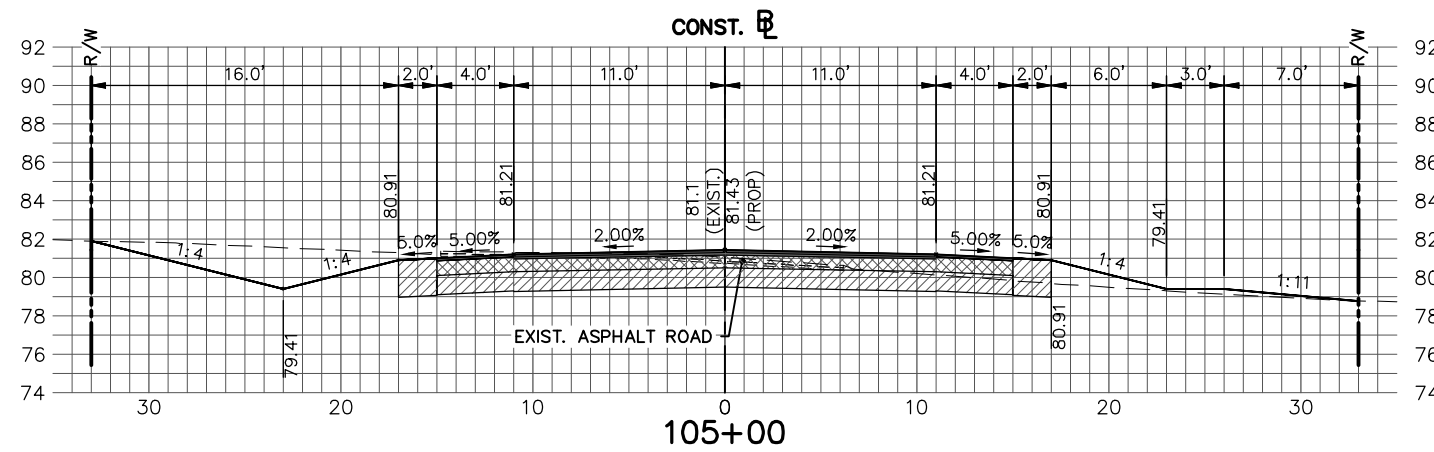
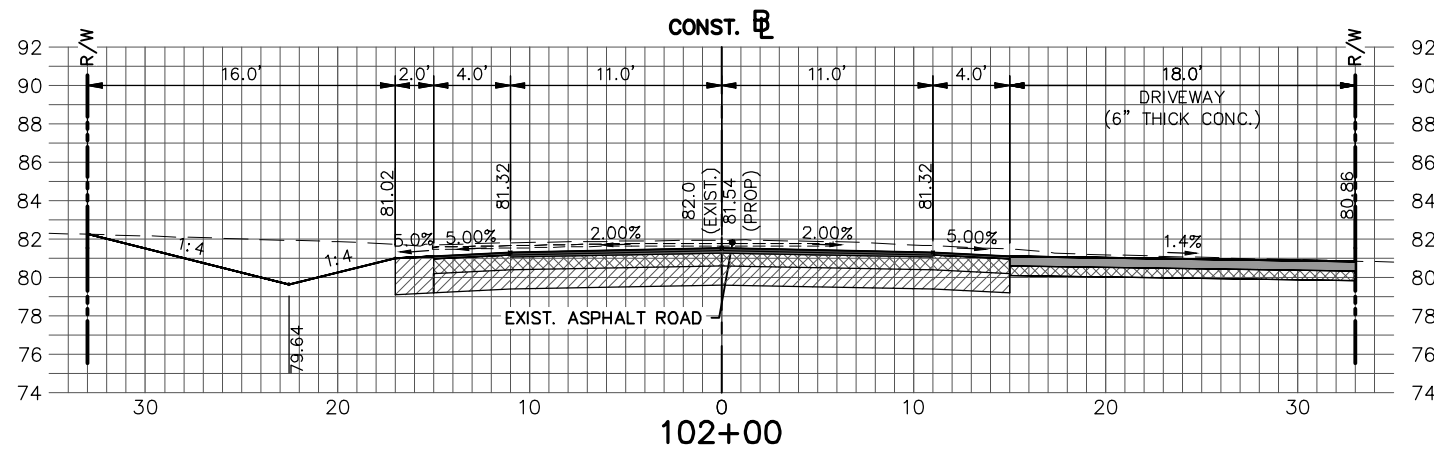
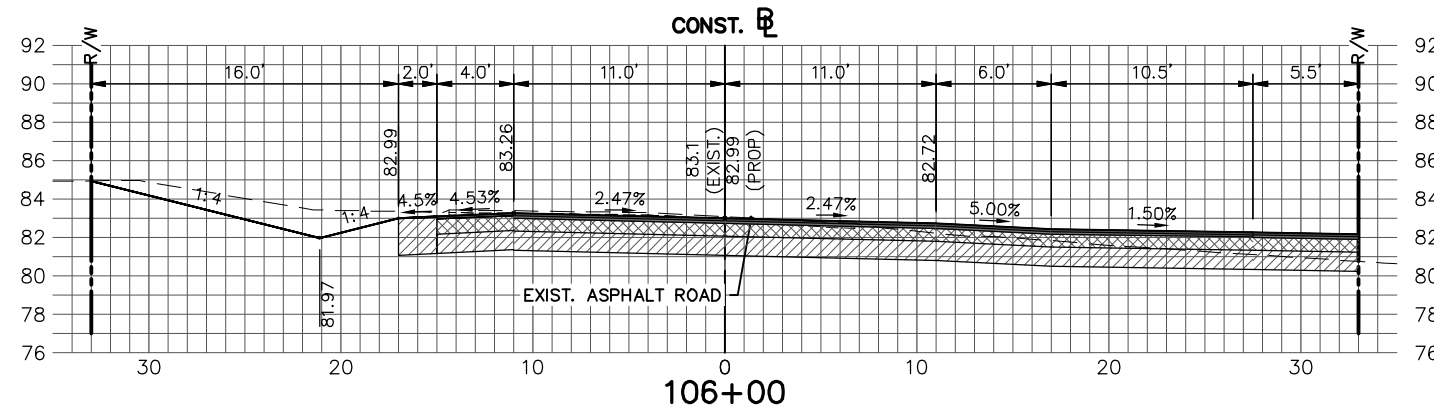
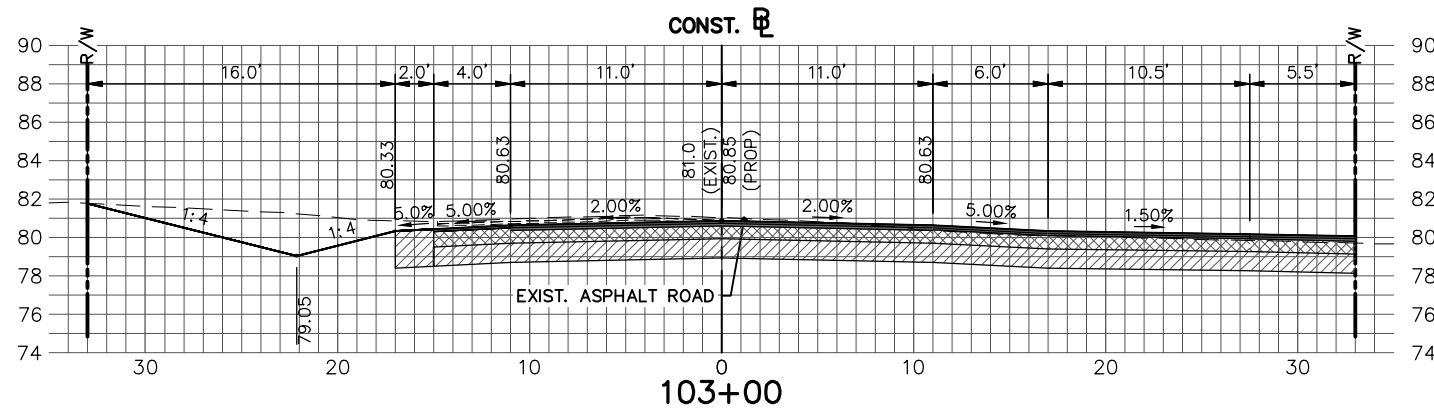


REVISIONS			STATUS
DATE	BY	DESCRIPTION	
			<b>FOR BID</b>

DESIGNED BY: ELIUS F. NORTELUS, P.E.  
 DRAWN BY: DOUG NIETUBICZ  
 CHECKED BY: KEITH BAKER, E.I.  
 IN CHARGE: ELIUS F. NORTELUS, P.E.  
**HIGHLANDS COUNTY ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870  
 APPROVED BY: ELIUS F. NORTELUS, P.E.  
 FLORIDA REGISTRATION NO.: 70092  
 DATE: 10/27/2016



SCALE:  
 HORIZ. 1"=10'  
 VERT. 1"=10'  
 PROJECT NO. 13008  
 REV. 0  
**LAKE JOSEPHINE DRIVE IMPROVEMENTS**  
**CROSS SECTIONS**  
 SHEET 66 OF 71



REVISIONS		DESCRIPTION
DATE	BY	

STATUS

**FOR BID**

DESIGNED BY:  
ELIUS F. NORTELUS, P.E.

DRAWN BY:  
DOUG NIETUBICZ

CHECKED BY:  
KEITH BAKER, E.I.

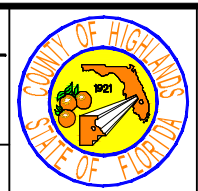
IN CHARGE:  
ELIUS F. NORTELUS, P.E.

DATE:  
10/2/2016

**HIGHLANDS COUNTY**  
**ENGINEERING DEPARTMENT**  
505 S. COMMERCE AVENUE  
SEBRING, FLORIDA 33870

APPROVED BY: ELIUS F. NORTELUS, P.E.  
FLORIDA REGISTRATION NO.: 70092

DATE:



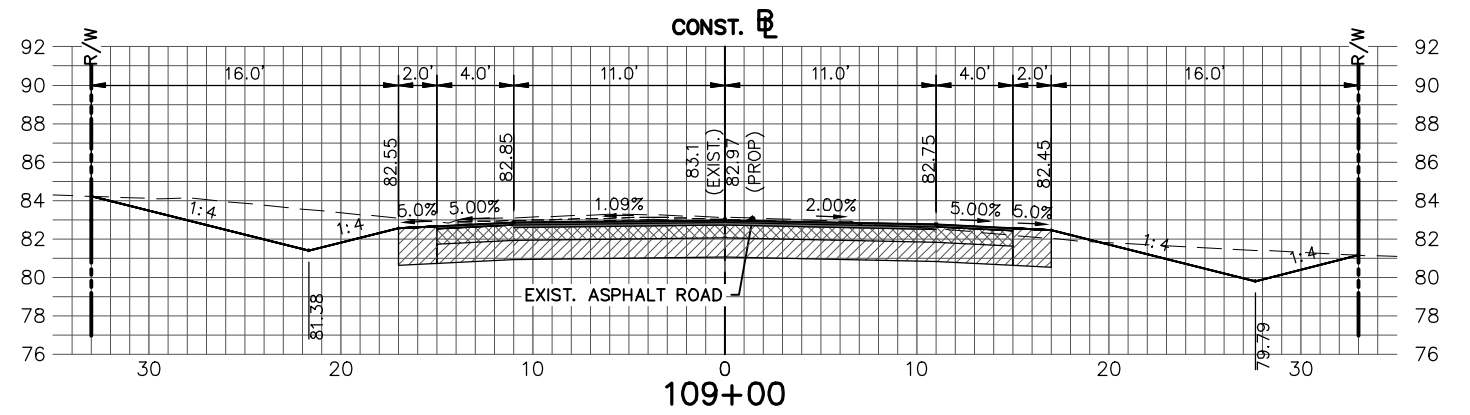
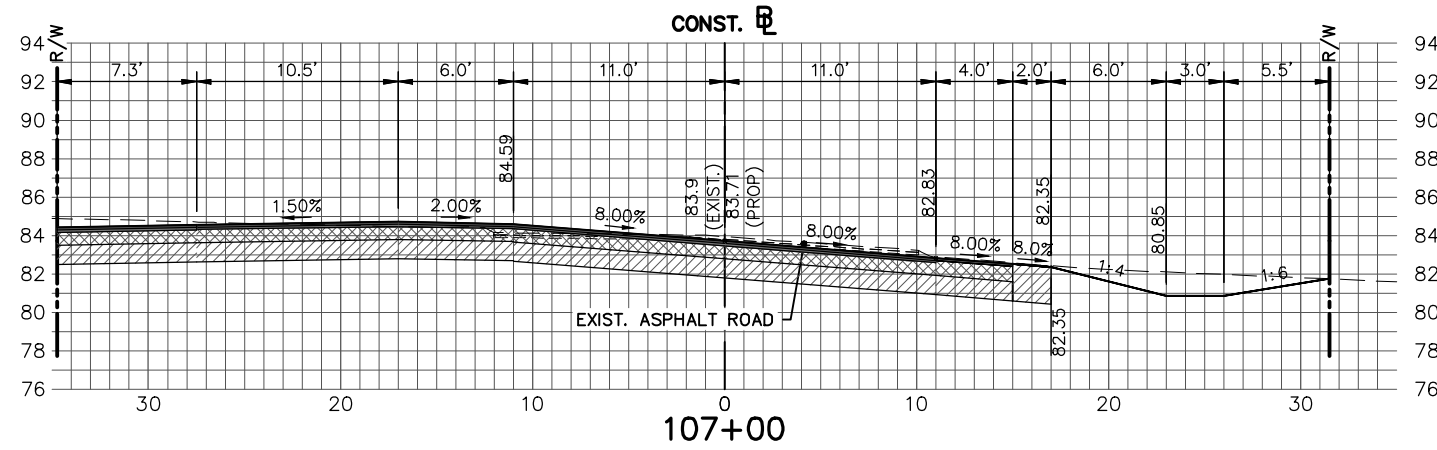
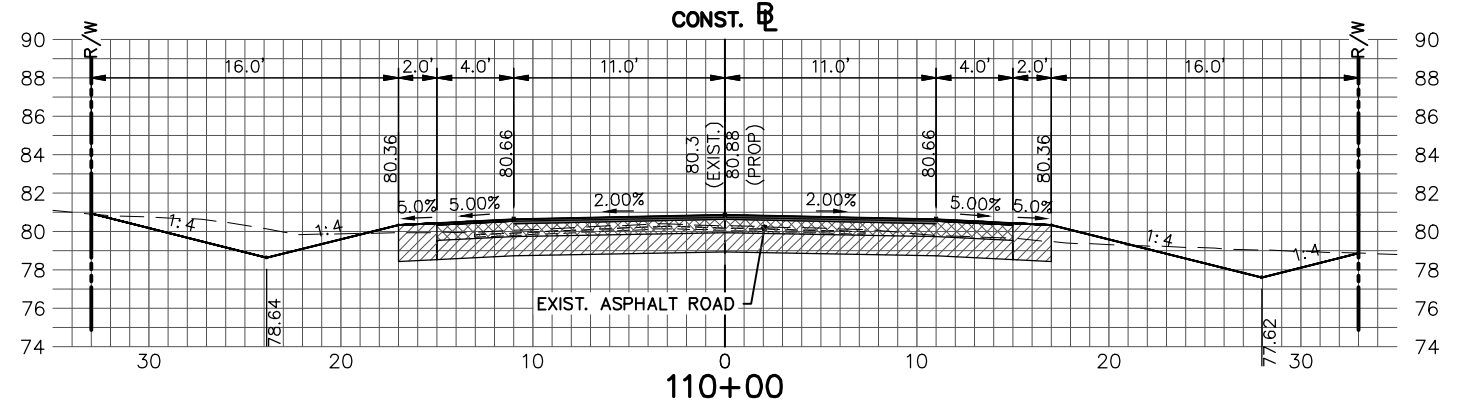
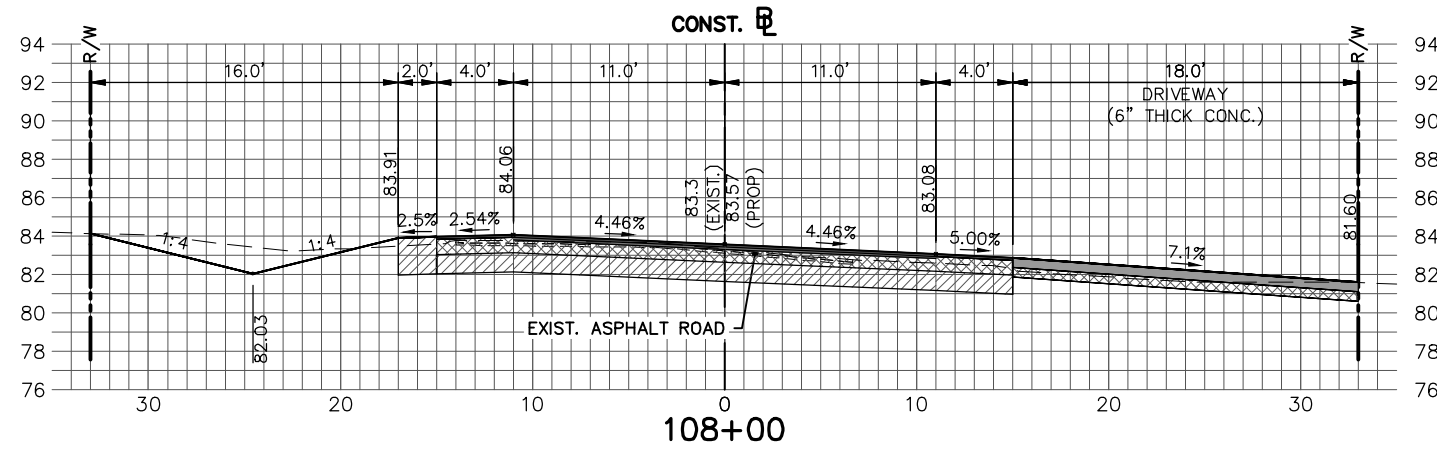
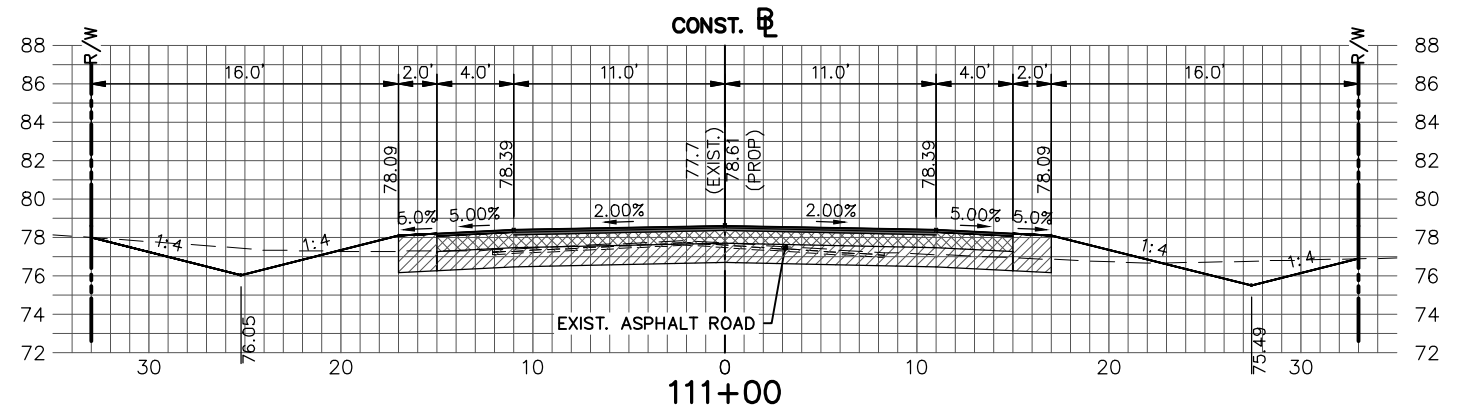
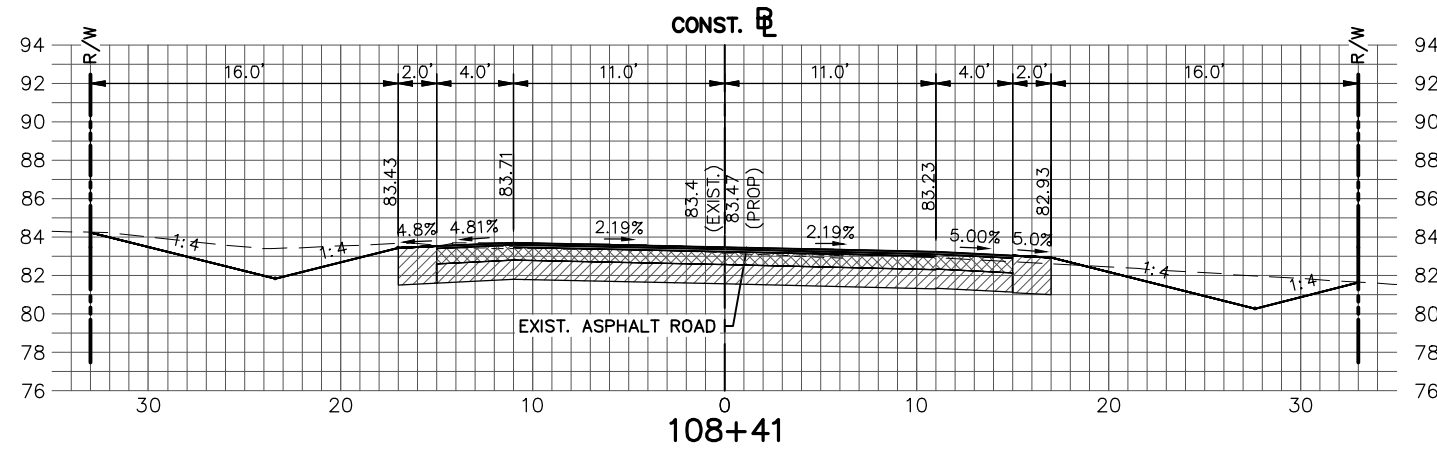
LAKE JOSEPHINE DRIVE  
IMPROVEMENTS  
CROSS SECTIONS

SCALE:  
HORIZ. 1"=10'  
VERT. 1"=10'

PROJECT NO.  
13008

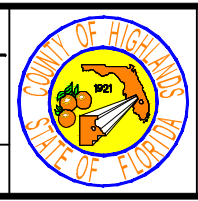
REV.  
0

SHEET 67 OF 71

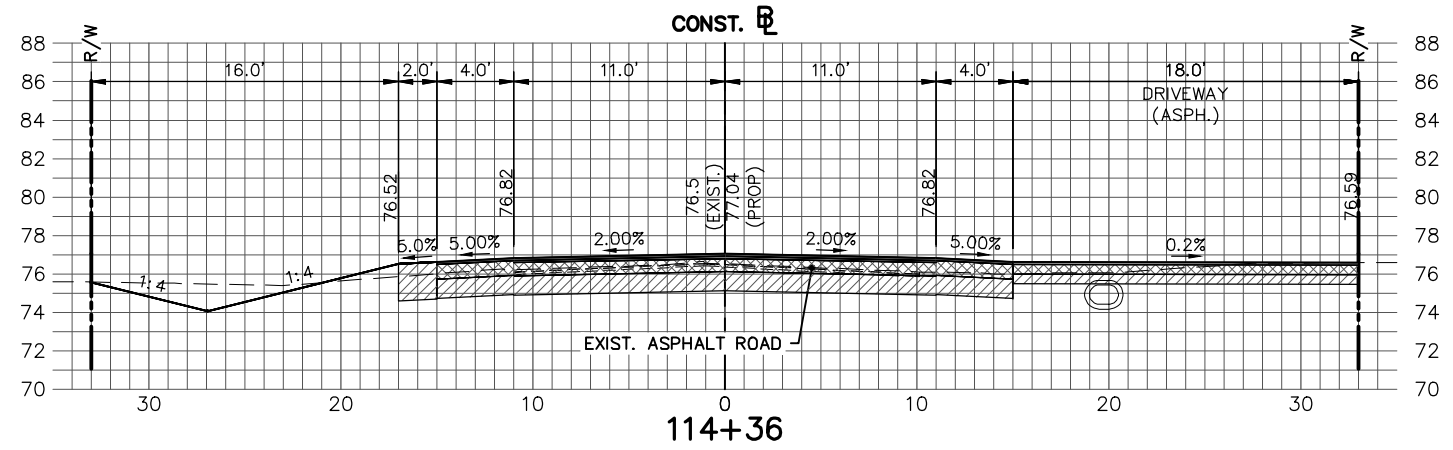
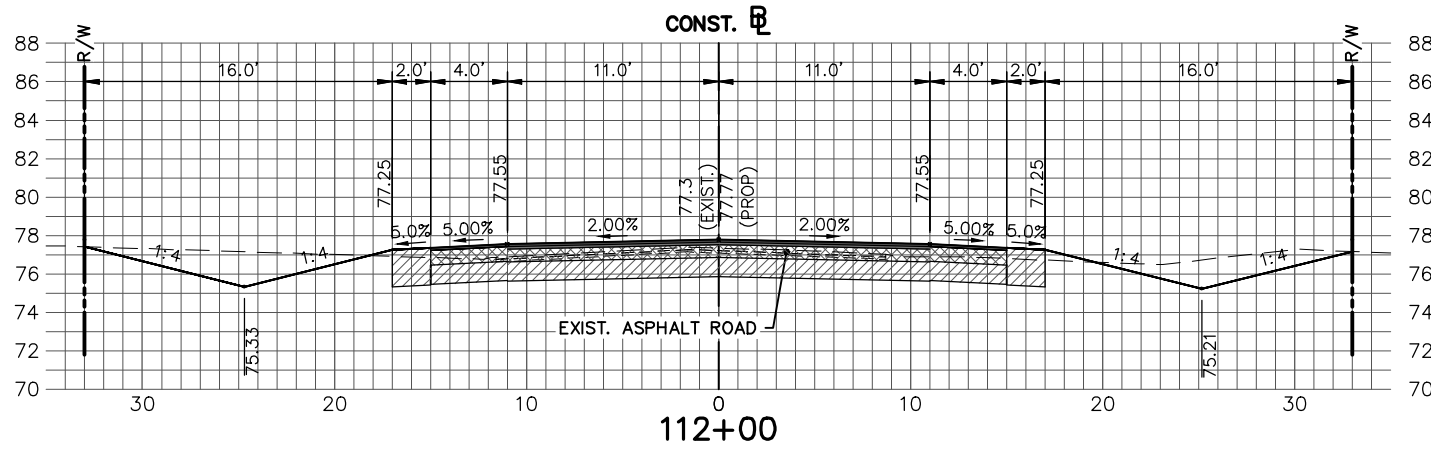
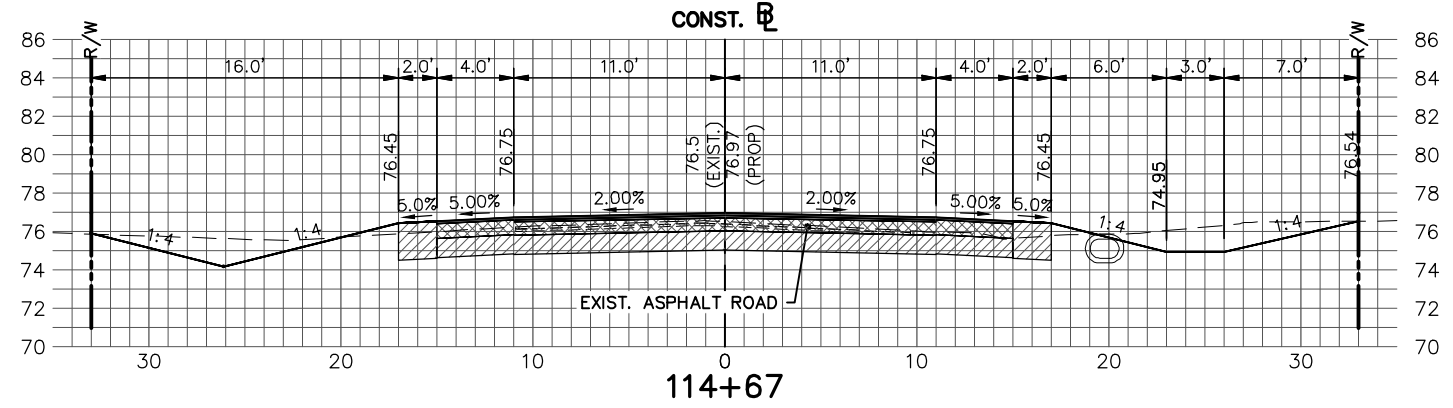
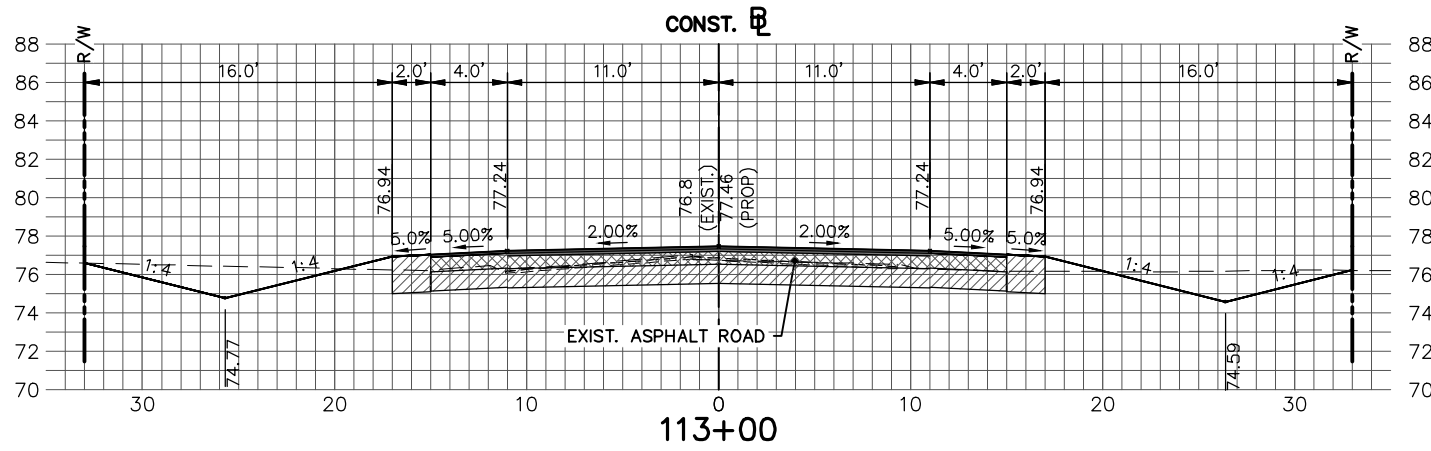
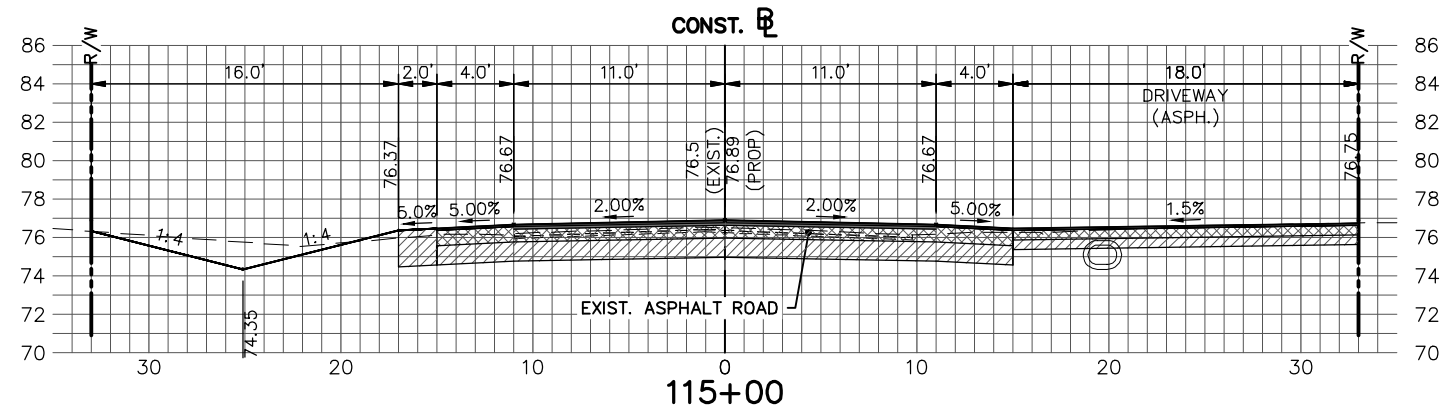
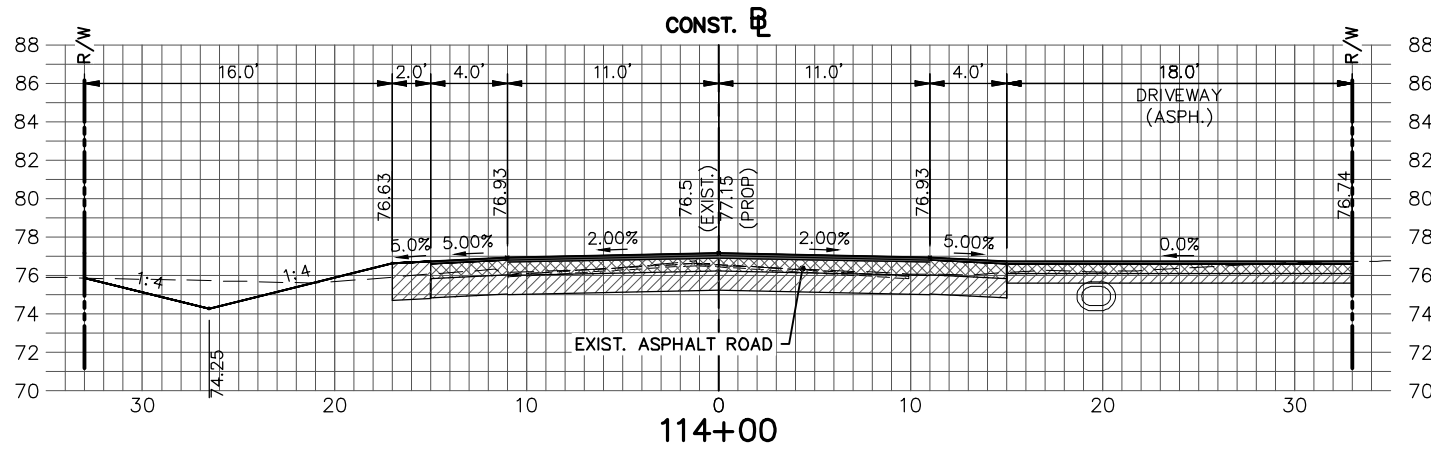


REVISIONS			STATUS
DATE	BY	DESCRIPTION	
			<b>FOR BID</b>

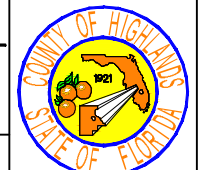
DESIGNED BY: ELIUS F. NORTELUS, P.E.  
 DRAWN BY: DOUG NIETUBICZ  
 CHECKED BY: KEITH BAKER, E.I.  
 IN CHARGE: ELIUS F. NORTELUS, P.E.  
**HIGHLANDS COUNTY ENGINEERING DEPARTMENT**  
 505 S. COMMERCE AVENUE  
 SEBRING, FLORIDA 33870  
 APPROVED BY: ELIUS F. NORTELUS, P.E.  
 FLORIDA REGISTRATION NO.: 70092  
 DATE: 10/27/2016

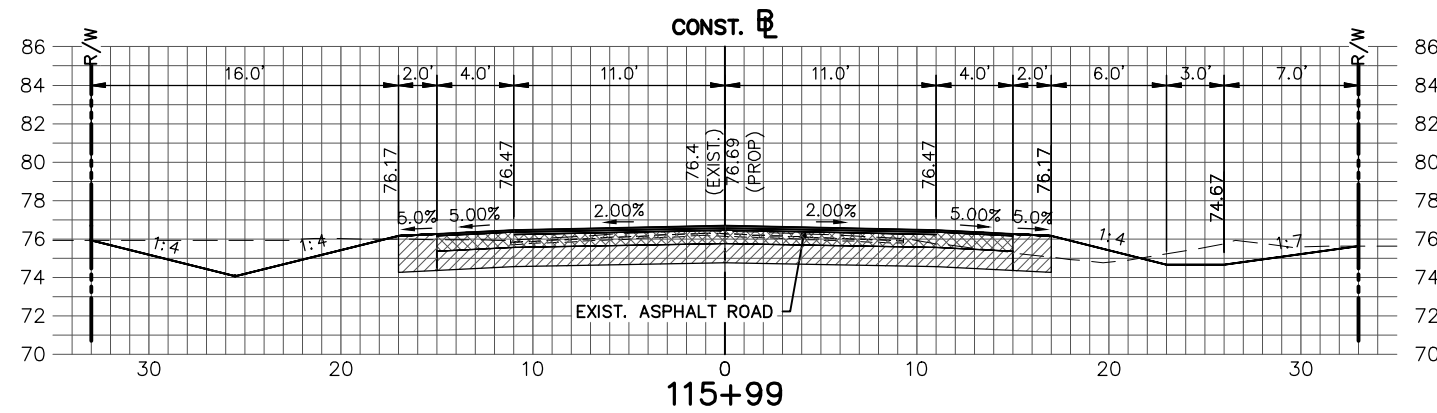
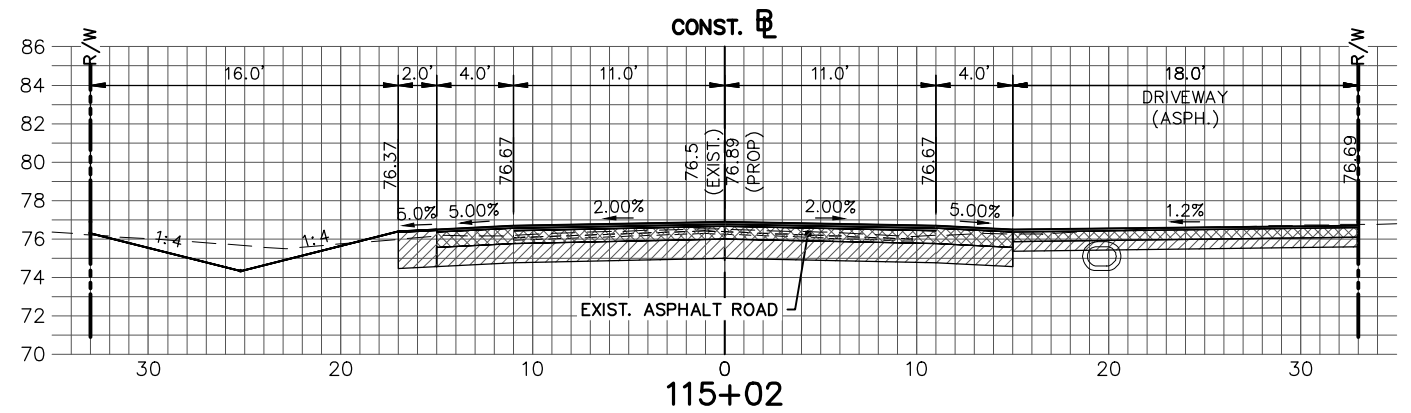
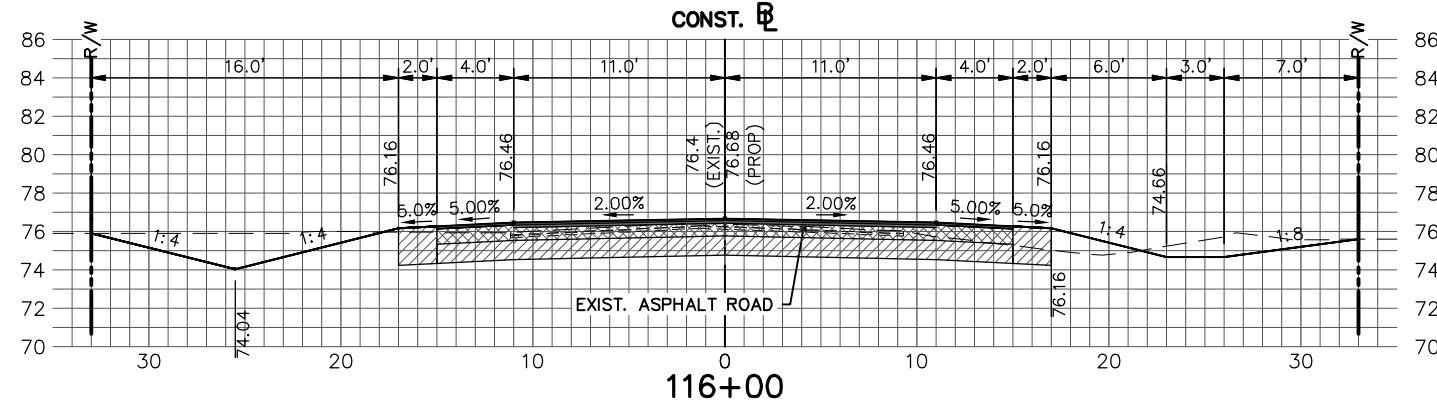
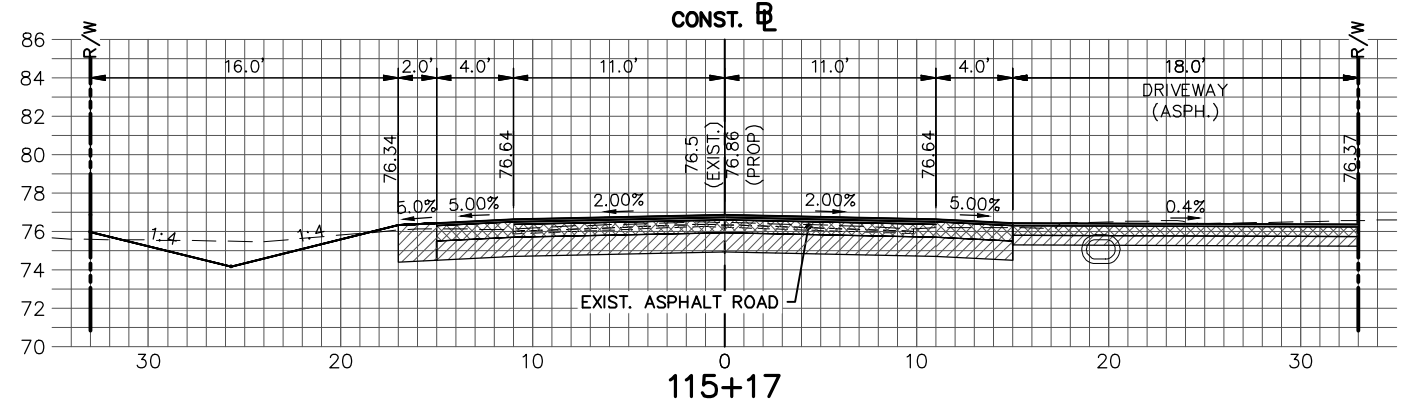
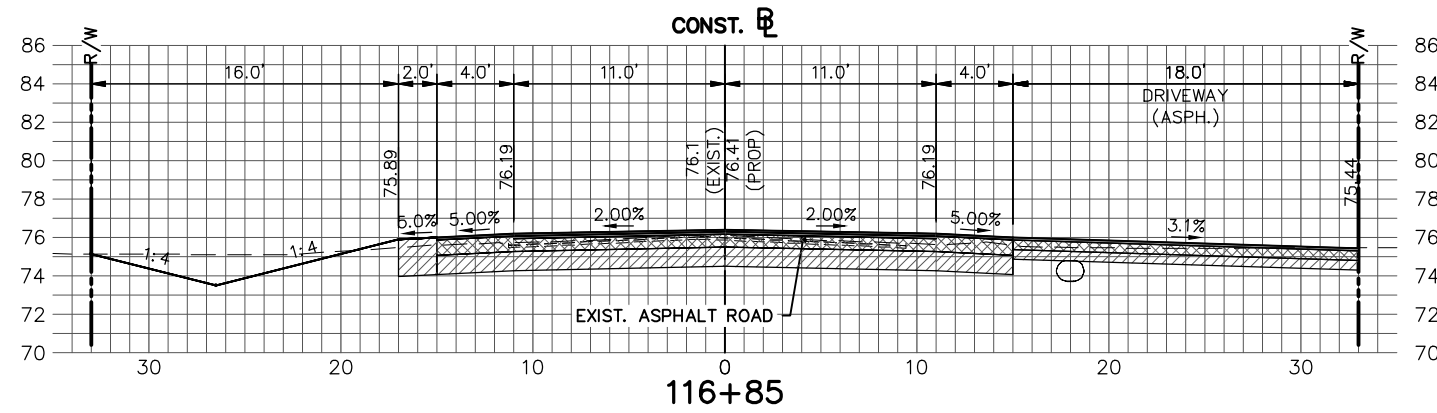
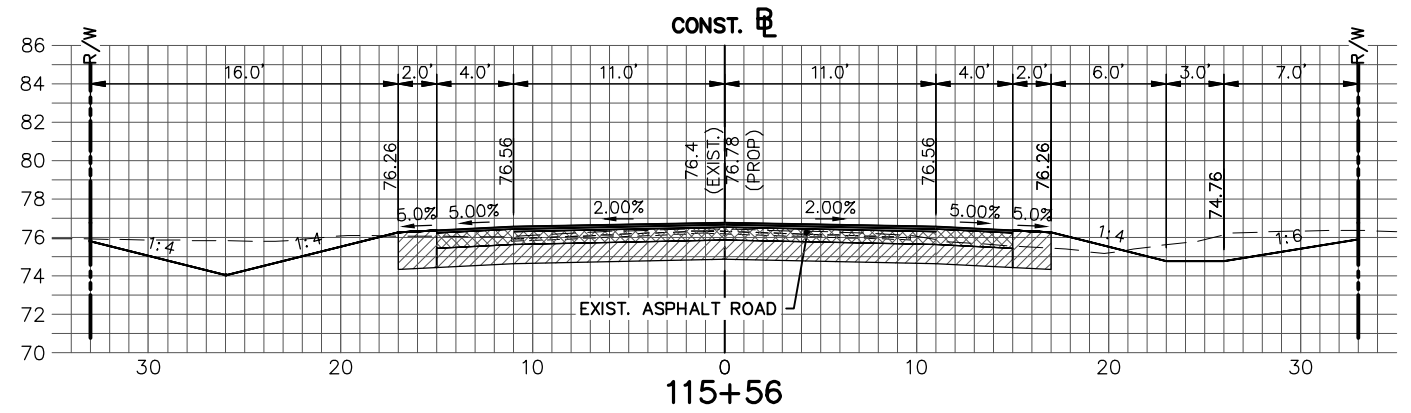


SCALE:  
 HORIZ. 1"=10'  
 VERT. 1"=10'  
 PROJECT NO. 13008  
 REV. 0  
**LAKE JOSEPHINE DRIVE IMPROVEMENTS**  
**CROSS SECTIONS**  
 SHEET 68 OF 71

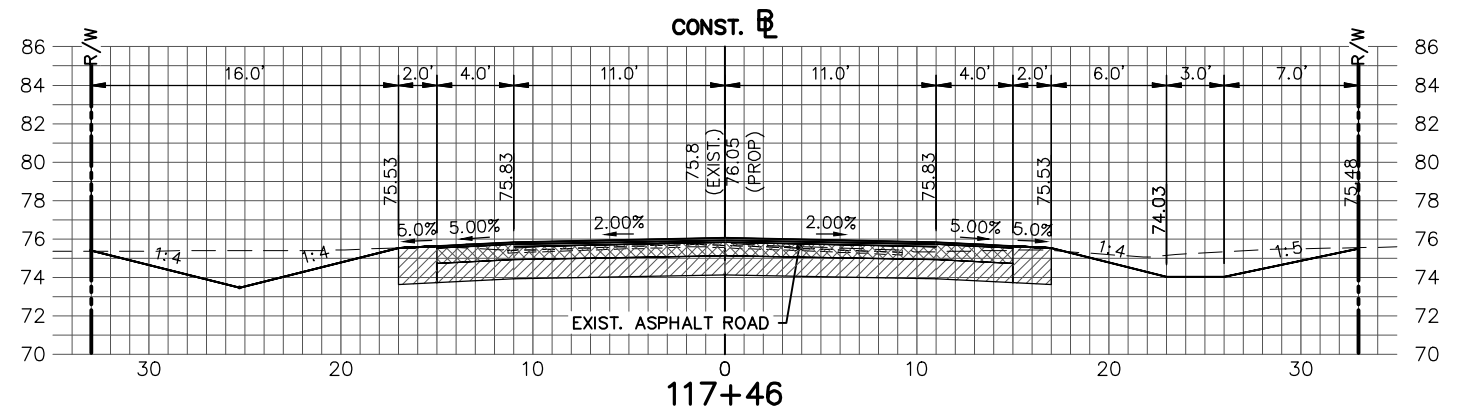
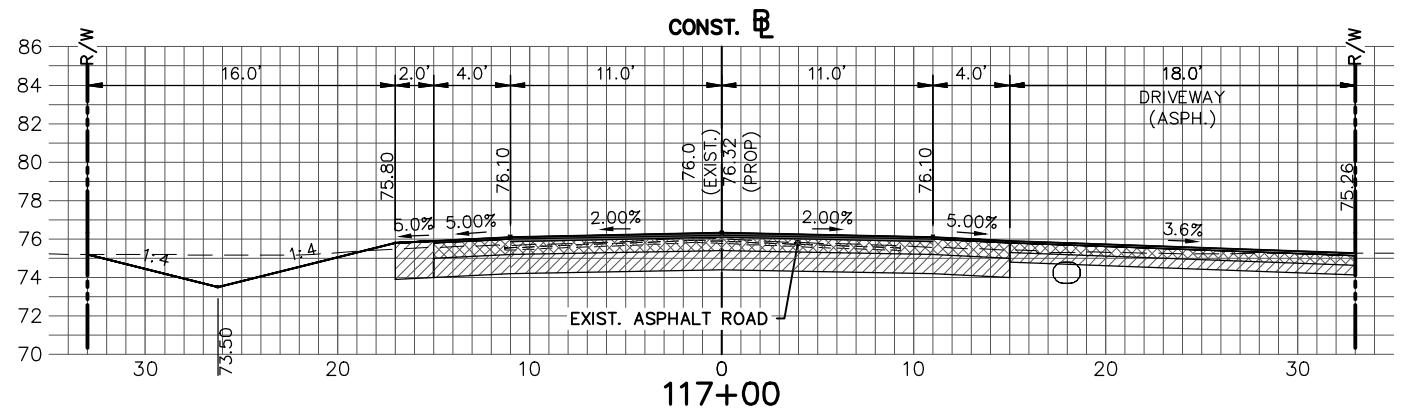
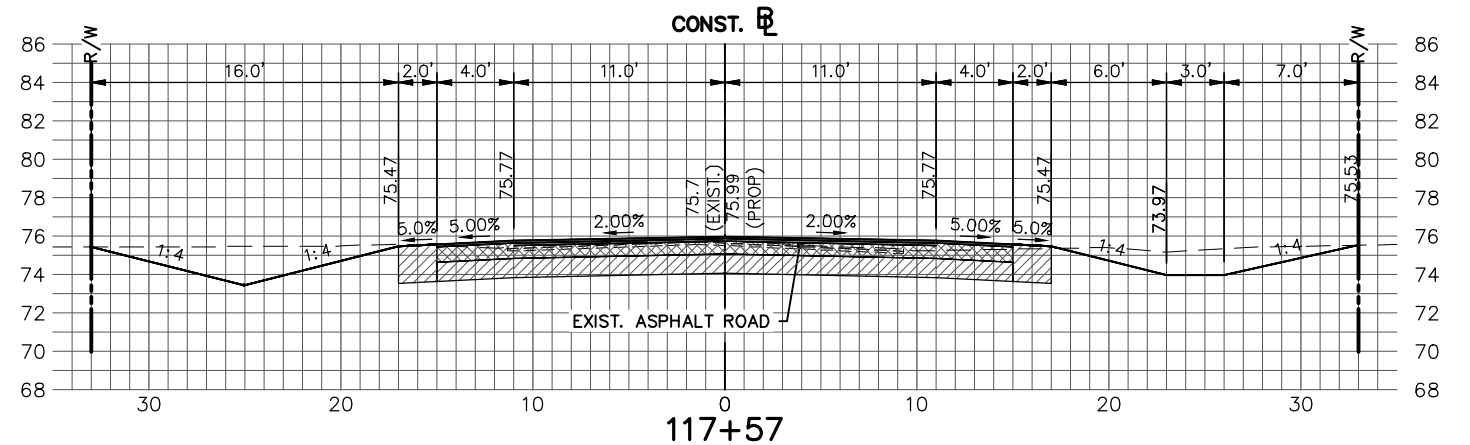
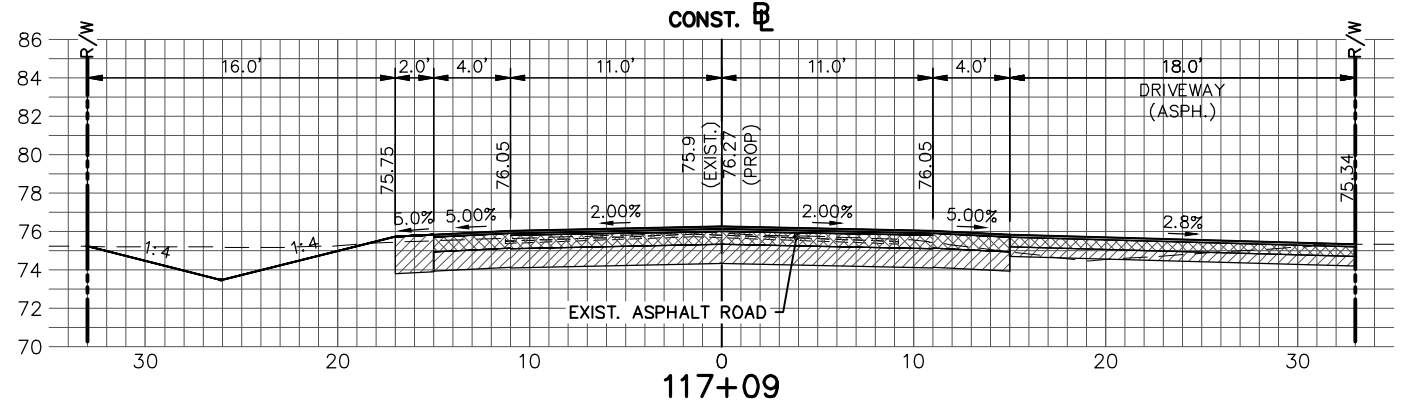
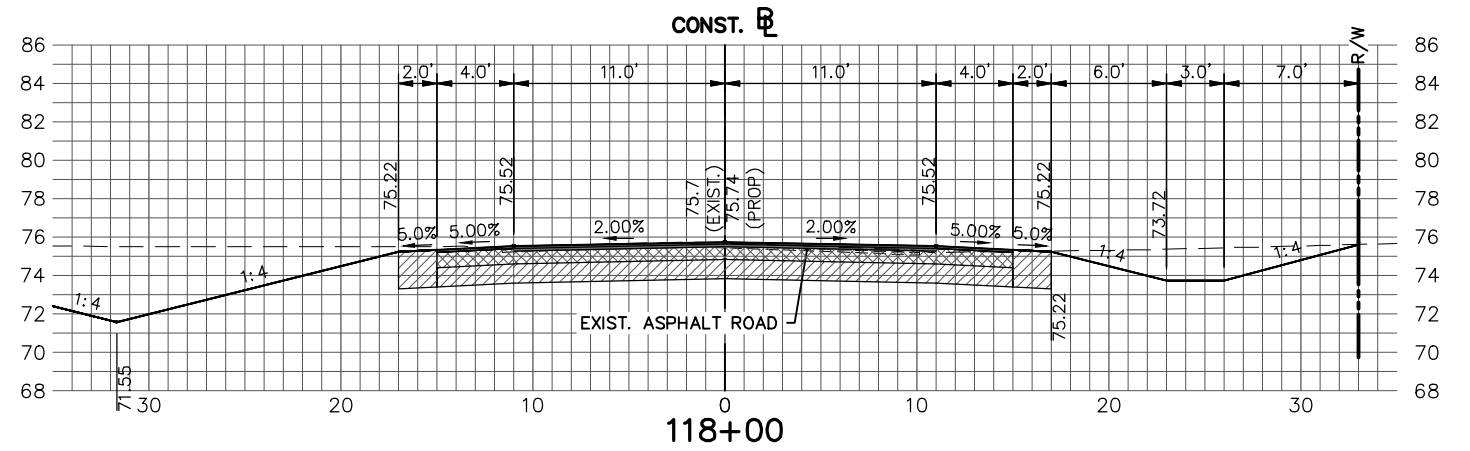
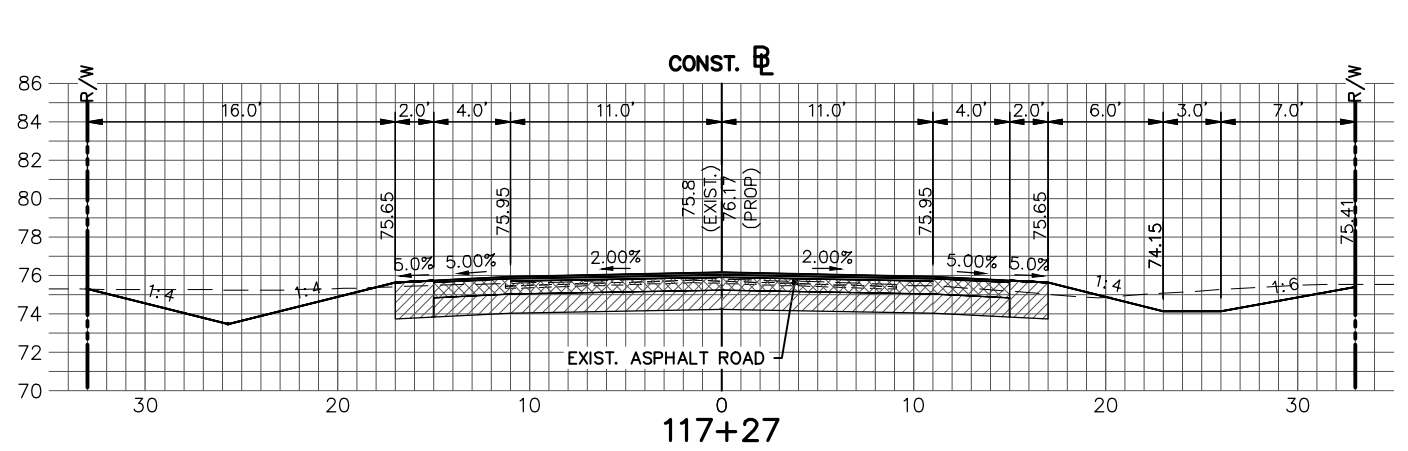


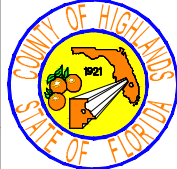
REVISIONS			STATUS		DESIGNED BY:		HIGHLANDS COUNTY		SCALE:			
DATE	BY	DESCRIPTION	<b>FOR BID</b>		ELIUS F. NORTELUS, P.E.		ENGINEERING DEPARTMENT		HORIZ. 1"=10'			
					DRAWN BY:		505 S. COMMERCE AVENUE		VERT. 1"=10'		PROJECT NO.	
					CHECKED BY:		SEBRING, FLORIDA 33870		LAKE JOSEPHINE DRIVE		REV.	
					IN CHARGE:		APPROVED BY: ELIUS F. NORTELUS, P.E.		IMPROVEMENTS		0	
					DATE: 10/27/2016				13008			
									SHEET 69 OF 71			





REVISIONS			STATUS		<b>FOR BID</b>	<b>HIGHLANDS COUNTY</b> <b>ENGINEERING DEPARTMENT</b> 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870		LAKE JOSEPHINE DRIVE IMPROVEMENTS	
DATE	BY	DESCRIPTION	DESIGNED BY:	ELIUS F. NORTELUS, P.E.				SCALE:	CROSS SECTIONS
			CHECKED BY: <td>KEITH BAKER, E.I. <td>PROJECT NO.</td> <td colspan="2" style="text-align: center;">13008</td> <td>REV.</td> <td style="text-align: center;">0</td> </td>	KEITH BAKER, E.I. <td>PROJECT NO.</td> <td colspan="2" style="text-align: center;">13008</td> <td>REV.</td> <td style="text-align: center;">0</td>	PROJECT NO.	13008		REV.	0
			IN CHARGE: <td>ELIUS F. NORTELUS, P.E. <td>DATE: <td colspan="2" style="text-align: center;">10/27/2016</td> <td colspan="2" style="text-align: center;">SHEET 70 OF 71</td> </td></td>	ELIUS F. NORTELUS, P.E. <td>DATE: <td colspan="2" style="text-align: center;">10/27/2016</td> <td colspan="2" style="text-align: center;">SHEET 70 OF 71</td> </td>	DATE: <td colspan="2" style="text-align: center;">10/27/2016</td> <td colspan="2" style="text-align: center;">SHEET 70 OF 71</td>	10/27/2016		SHEET 70 OF 71	
APPROVED BY: ELIUS F. NORTELUS, P.E.					FLORIDA REGISTRATION NO.: 70092				



REVISIONS			STATUS		DESIGNED BY:		<b>HIGHLANDS COUNTY</b> <b>ENGINEERING DEPARTMENT</b> 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870		LAKE JOSEPHINE DRIVE IMPROVEMENTS		SCALE:	
DATE	BY	DESCRIPTION	FOR BID		ELIUS F. NORTELUS, P.E.				CROSS SECTIONS		HORIZ. 1"=10'	VERT. 1"=10'
			<b>FOR BID</b>		DRAWN BY: DOUG NIETUBICZ CHECKED BY: KEITH BAKER, E.I. IN CHARGE: ELIUS F. NORTELUS, P.E.		APPROVED BY: ELIUS F. NORTELUS, P.E. FLORIDA REGISTRATION NO.: 70092		DATE:		PROJECT NO.	REV.
											13008	0
<small>G:\PROJECTS\2013\13008 Lake Josephine Drive Resurfacing\Drawings\Full Depth Reconstruction Option\Cross Section Sheets Lake Josephine.dwg, Cross Section Sheets Lake Josephine - Section Sheet - (27), Baker, Keith J. Colors As Black Except Gray</small>											SHEET 71 OF 71	