

**HIGHLANDS COUNTY
BOARD OF COUNTY COMMISSIONERS
(HCBCC)
PURCHASING DEPARTMENT**

DATE: 5/19/16

BID NO.: ITB 16-029 ADDENDUM No. 1

Project: Lake Josephine Drive Improvements

Owner: Highlands County BCC
Attn: Purchasing Department
4320 George Blvd; Sebring, FL 33875-5803

Please see the following Revised Sections:

1. Plans
The only substantial change was that the quantities were revised on the cover sheet, sheet 3, and sheet 4.

2. Section 00300 Bid Form
Quantities were revised to reflect changes to quantities that were updated on the plans. This Revised Section 00300 Bid Form must be submitted with Bid to be considered for Award.

3. Section 00500 Agreement
 - Section 7.4 – Reference to the date of the plans changed to **May 19, 2016**. References to the total number of sheets contained within the plan set were changed to **67**.

Please note: Upon receiving all approved bids, the **OWNER** will evaluate the prices and other response information received from the bidders to determine which bids are responsive to the invitation to bid and, if in fact the project can be constructed to its total length based upon the bid prices of responsive bids. If the winning bid exceeds the **OWNER** funds for the project, the **OWNER** reserves the right to reduce the project cost by adjusting the beginning project station, quantities and/or scope to meet the available funding.

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

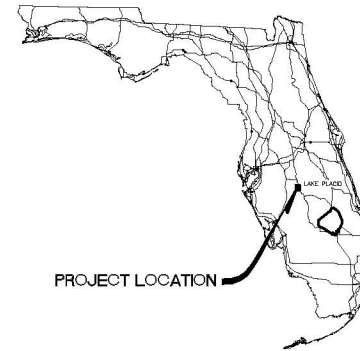
CONSTRUCTION PLANS

FOR

LAKE JOSEPHINE DRIVE IMPROVEMENTS

HIGHLANDS COUNTY PROJECT NO. 13008

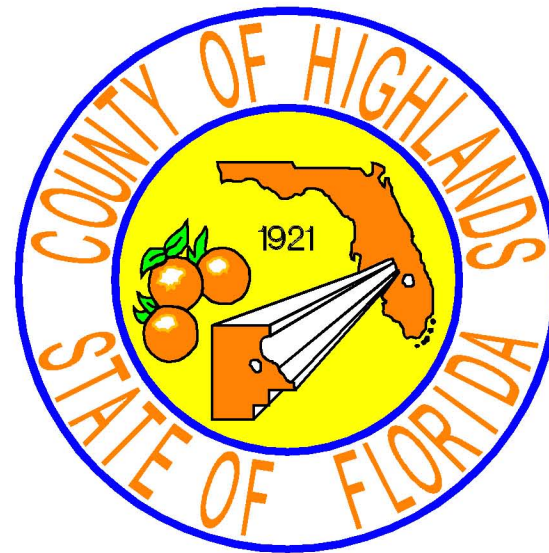
FDOT FPID: 430107 1 58 01



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

COMCAST CABLE
3010 HERRING AVE.
SEBRING, FL 33870
YONHUI MIRANDA
(883)-381-1409
FIELD CONTACT:
TIM HINEFELT
(883)-273-8556

CENTURY LINK
924 MEMORIAL DR.
AVON PARK, FL 33825
KEN LUTZ
(883)-452-3185

LEVEL 3 COMMUNICATIONS
1025 EL DORADO BLVD.
BROOMFIELD, CO 80021
MICHAEL NUNEZ
(720)-888-0916

HIGHLANDS COUNTY TRAFFIC
505 S. COMMERCE AVE.
SEBRING, FLORIDA 33870
EDDIE CARDONA
(883) 402-6877

GLADES ELEC. CO-OP INC.
PO BOX 519
MOORE HAVEN, FL 33471
GLEN STIMSON
(883)-465-0231

US WATER SERVICES CORP.
4939 CROSS BAYOU BLVD.
NEW PORT RICHEY, FL 34652
RON DEROSSETT
(886)-753-8292
(904)-540-9765
FIELD CONTACT:
CHRIS BERISH
(727)-389-8538

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	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	18,485	LF
9	CLEARING AND GRUBBING INCLUDING TREE REMOVAL	1	LS
10	REMOVAL OF EXISTING CONCRETE PAVEMENT DRIVEWAY	1,530	SY
11	REMOVAL OF EXISTING ASPHALT PAVEMENT (DRIVEWAY & ROADWAY)	4,250	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 8" COMPACTED THICKNESS. ADDITIONAL MATERIAL TO BE PROVIDED BY THE CONTRACTOR IF NECESSARY.	35,540	SY
15	OPTIONAL BASE, BASE GROUP 6, 8" COMPACTED THICKNESS (ROADWAY)	29,200	SY
16	OPTIONAL BASE, BASE GROUP 4, 6" COMPACTED THICKNESS, DRIVEWAY	3,010	SY
17	MILLING EXISTING ASPH PAVT, 1 1/2" AVG DEPTH	360	SY
18	SUPERPAVE ASPHALTIC CONCRETE, 1 1/2" THICK, RAP 30% MAXIMUM, 1 1/2" THICK (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	5,080	TN
20	SUPERPAVE ASPHALTIC CONCRETE, 1 1/2" THICK, RAP 30% MAXIMUM, ROADWAY (SIDE STREETS)	360	TN
21	SUPERPAVE ASPHALTIC CONCRETE, 1 1/2" THICK, RAP 30% MAXIMUM, DRIVEWAY	60	TN
22	INLET, DITCH BOTTOM, TYPE C	2	EA
23	18" x 12" REINFORCED CONCRETE PIPE (RCP)	64	LF
24	18" REINFORCED CONCRETE PIPE (RCP)	10	LF
25	MITERED END SECTION	1	EA
26	CONCRETE DRIVEWAYS, 6" THICK, 6" x 6" W1.4W1.4 WELDED WIRE MESH, 3,000 PSI MINIMUM	1,910	SY
27	RUMBLE STRIPS, GROUND IN	6,280	LF
28	PERFORMANCE TURF (SOD)	38,610	SY
29	SINGLE POST SIGN, F & I, STOP (R1-1), 30" x 30"	17	AS
30	SINGLE POST SIGN, F & I, STREET SIGN (D3-1)	34	AS
31	SINGLE POST SIGN, F & I, STOP (R1-1)	1	AS
32	SINGLE POST SIGN, F & I, SPEED LIMIT, (R2-1), 24" x 30"	3	AS
33	SINGLE POST SIGN, F & I, NARROW BRIDGE, W5-2, 36" x 36"	4	AS
34	SINGLE POST SIGN, F & I, OBJECT MARKER (OM3R), 12" x 36"	4	AS
35	SINGLE POST SIGN, F & I, OBJECT MARKER (OM3L), 12" x 36"	4	AS
36	SINGLE POST SIGN, F & I, OBJECT MARKER (OM2-1V) (WHITE)	20	AS
37	SINGLE POST SIGN, F & I, OBJECT MARKER (OM2-2V) (YELLOW)	12	AS
38	SINGLE POST SIGN, F & I, STOP AHEAD (W3-1)	1	AS
39	SINGLE POST SIGN, F & I, CURVE LEFT (W1-2L)	2	AS
40	SINGLE POST SIGN, F & I, CURVE RIGHT (W1-2R)	2	AS
41	SINGLE POST SIGN, F & I, REVERSE CURVE (W1-4L)	2	AS
42	SINGLE POST SIGN, F & I, WINDING ROAD (W1-5)	2	AS
43	SINGLE POST SIGN, REMOVE & RELOCATE	36	AS
44	SINGLE POST SIGN, REMOVE & DISCARD	18	AS
45	RETRO-REFLECTIVE PAVEMENT MARKERS, YELLOW	800	EA
46	RETRO-REFLECTIVE PAVEMENT MARKERS, WHITE	360	EA
47	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 6"	20,200	LF
48	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 24"	320	LF
49	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, YELLOW, SOLID, 6"	16,300	LF
50	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, YELLOW, SOLID, 24"	2,200	LF
51	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 18" (CHEVRON)	500	LF
52	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"	20,200	LF
53	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	320	LF
54	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"	16,300	LF
55	THERMOPLASTIC, STANDARD, YELLOW, SKIP, 6"	2,200	LF
56	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" (CHEVRON)	500	LF

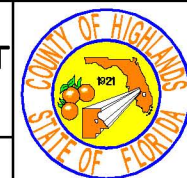
GOVERNING STANDARDS AND SPECIFICATIONS:

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: 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: 5/19/2016	APPROVED BY: ELIUS F. NORTELUS, P.E. FLORIDA REGISTRATION NO.: 70092	DATE:	SCALE: HORIZ. N/A VERT. N/A	PROJECT NO. 13008	REV. 0
DATE	BY	DESCRIPTION	FOR BID											



LAKE JOSEPHINE DRIVE IMPROVEMENTS
COVER SHEET

GENERAL NOTES AND SPECIFICATIONS

GENERAL CONSTRUCTION NOTES

1. The Contractor shall be responsible for furnishing all material and labor to construct the facility as shown and described in the construction documents.
2. The Contractor shall be responsible for obtaining all required construction bonds prior to construction.
3. 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.
4. 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.
5. Contractor shall submit a construction schedule to the Highlands County Project Manager prior to commencement of construction.
6. Contractor shall coordinate proposed driveway construction with affected property owners.
7. Contractor shall repair and/or replace all disturbed irrigation. Contractor shall coordinate this activity with affected property owners.

EROSION CONTROL

1. 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.
2. 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
3. All wash water (concrete trucks, vehicle cleaning, equipment cleaning, etc.) shall be detained and properly treated and disposed.
4. 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.
5. The use of motor oils and other petroleum based or toxic liquids for dust suppression operations is prohibited.
6. 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.
7. Stabilization practices should be initiated as soon as practical, but in no case more than 7 days where construction has temporarily ceased.
8. All materials spilled, dropped, washed or tracked from vehicles onto roadways or into storm drains must be removed as soon as possible.
9. On-site & off-site soil stockpile and borrow areas shall be protected from erosion and sedimentation through implementation of best management practices.
10. Slopes shall be left in a roughened condition during the grading phase to reduce runoff velocities and erosion.
11. 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.
12. 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.
13. The contractor shall install sediment barrier as shown on plans within the perimeter of the project site.

SURVEY AND STAKEOUT

1. 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).
2. Benchmark data is North American Vertical Datum of 1988 (NAVD 88).
3. 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.
4. Grades shown are the finished grades, unless otherwise indicated.
5. The Contractor shall remove survey stakes and erosion control items prior to the completion of the contract.
6. 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

1. 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.
2. 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.
2. The Contractor is to use caution when working in or around areas of overhead transmission lines or underground utilities.
3. The Contractor is responsible for the protection of all utilities to remain in place.
4. The Contractor shall call 811 for field locations no less than 48 hours in advance of digging near underground utilities.
5. Prior to commencement of any excavation, the contractor shall comply with Florida Statute 553.851 for the protection of underground gas pipelines.
6. 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

1. 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

1. 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.
2. All cut or fill slopes shall be 4 (horizontal): 1 (vertical): 1 (vertical) or flatter unless otherwise shown.
3. Existing drainage structures within construction limits shall remain unless noted otherwise.
4. Contractor is responsible for repairing any existing concrete or asphalt areas that are disturbed during construction.

PAVEMENT MARKING AND SIGNAGE

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

SOD

1. 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.
2. 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.
3. All areas within the project site shall be sodded unless indicated in these construction plans.




TESTING

1. 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.
2. 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.
3. 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.
4. 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 (8" 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	No undertolerance of mixing depth is allowed. Do not exceed individual plan depth thickness by more than 2".
LBR	ONE (1) PER LIFT, ONE (1) TOTAL	Undertolerance = 5.0
Stabilization Construction Method: For mixing exist. asphalt, base, and sub-base materials provide heavy-duty rotary tiller or other equipment approved by the Engineer as equally effective for this work.		
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, FORTY (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".		

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<p>G:\PROJECTS\2013\13008 Lake Josephine Drive Resurfacing\Drawings\Full Depth Reconstruction Option\Cover General Notes Details Josephine.dwg, 1 NOTES & SPECIFICATIONS, Acad 1-7 Black.ctb</p>				<p>APPROVED BY: ELIUS F. NORTELUS, P.E. FLORIDA REGISTRATION NO.: 70092</p>		<p>DATE:</p>																																								

**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	1	LS
5	MAINTENANCE OF TRAFFIC	1	LS
6	BUSINESS SIGN	4	EA
7	PORTABLE CHANGEABLE MESSAGE SIGNS, TEMPORARY (TWO)	190	FD
8	SEDIMENT BARRIER TEMPORARY	18,485	LF
9	CLEARING AND GRUBBING INCLUDING TREE REMOVAL	1	LS
10	REMOVAL OF EXISTING CONCRETE PAVEMENT DRIVEWAY	1,530	SY
11	REMOVAL OF EXISTING ASPHALT PAVEMENT (DRIVEWAY & ROADWAY)	4,250	SY
12	MAILBOX REMOVE AND RELOCATE	70	EA
13	FULL DEPTH RECLAMATION (12")	35,540	SY
14	OPTIONAL BASE, BASE GROUP 6	31,000	SY
15	CEMENT FOR RECLAMATION	230	TN
16	EMULSION FOR RECLAMATION	63,000	GAL
17	OPTIONAL BASE, BASE GROUP 4, 6" COMPACTED THICKNESS, DRIVEWAY	3,010	SY
18	MILLING EXISTING ASPH PAVT, 1 1/2" AVG DEPTH	370	SY
19	SUPERPAVE ASPHALTIC CONCRETE, 1 1/2" THICK, RAP 30% MAXIMUM, 1/2" THICK (STA 118+06.05 TO STA 119+04.28)	30	TN
20	SUPERPAVE ASPHALTIC CONCRETE, 3" THICK, RAP 30% MAXIMUM, PLACED IN TWO EQUAL LAYERS, 1 1/2" THICK EACH	5,080	TN
21	SUPERPAVE ASPHALTIC CONCRETE, 1 1/2" THICK, RAP 30% MAXIMUM, ROADWAY (SIDE STREETS)	360	TN
22	SUPERPAVE ASPHALTIC CONCRETE, 1 1/2" THICK, RAP 30% MAXIMUM, DRIVEWAY	60	TN
23	INLET, DITCH BOTTOM, TYPE C	2	EA
24	18" x 12" REINFORCED CONCRETE PIPE (RCP)	64	LF
25	18" REINFORCED CONCRETE PIPE (RCP)	10	LF
26	MITERED END SECTION	1	EA
27	CONCRETE DRIVEWAYS, 6" THICK, 6" x 6" W1.4/W1.4 WELDED WIRE MESH, 3,000 PSI MINIMUM	1,910	SY
28	RUMBLE STRIPS, GROUND IN	6,280	LF
29	PERFORMANCE TURF (SOD)	38,610	SY
30	SINGLE POST SIGN, F & I, STOP (R1-1), 30" x 30"	17	AS
31	SINGLE POST SIGN, F & I, STREET SIGN (D3-1)	34	AS
32	SINGLE POST SIGN, F & I, STOP (R1-1)	1	AS
33	SINGLE POST SIGN, F & I, SPEED LIMIT, (R2-1), 24" x 30"	3	AS
34	SINGLE POST SIGN, F & I, NARROW BRIDGE, W5-2, 36" x 36"	4	AS
35	SINGLE POST SIGN, F & I, OBJECT MARKER (OMR), 12" x 36"	4	AS
36	SINGLE POST SIGN, F & I, OBJECT MARKER (OML), 12" x 36"	4	AS
37	SINGLE POST SIGN, F & I, OBJECT MARKER (OM2-IV) (WHITE)	20	AS
38	SINGLE POST SIGN, F & I, OBJECT MARKER (OM2-2V) (YELLOW)	12	AS
39	SINGLE POST SIGN, F & I, STOP AHEAD (W3-1)	1	AS
40	SINGLE POST SIGN, F & I, CURVE LEFT (W1-2L)	2	AS
41	SINGLE POST SIGN, F & I, CURVE RIGHT (W1-2R)	2	AS
42	SINGLE POST SIGN, F & I, REVERSE CURVE (W1-4L)	2	AS
43	SINGLE POST SIGN, F & I, WINDING ROAD (W1-5)	2	AS
44	SINGLE POST SIGN, REMOVE & RELOCATE	36	AS
45	SINGLE POST SIGN, REMOVE & DISCARD	18	AS
46	RETRO-REFLECTIVE PAVEMENT MARKERS, YELLOW	800	EA
47	RETRO-REFLECTIVE PAVEMENT MARKERS, WHITE	360	EA
48	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 6"	20,200	LF
49	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 24"	320	LF
50	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, YELLOW, SOLID, 6"	16,300	LF
51	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, YELLOW, SKIP, 6"	2,200	LF
52	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 18" (CHEVRON)	500	LF
53	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"	20,200	LF
54	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	320	LF
55	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"	16,300	LF
56	THERMOPLASTIC, STANDARD, YELLOW, SKIP, 6"	2,200	LF
57	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" (CHEVRON)	500	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/116BOOK.PDF](http://www.dot.state.fl.us/PROGRAMMANAGEMENT/IMPLEMENTED/SPECBOOKS/JANUARY2016/FILES/116BOOK.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 CHASE 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 1,800 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

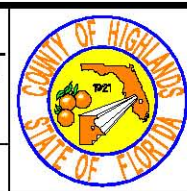
5.1 LAYOUT: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRING LING AND LAYOUT OF THE ROADWAY PRIOR TO PAVING. ELEVATIONS OF THE EXISTING ROADWAY MUST BE REFERENCED AT SUFFICIENT INTERVALS TO ENSURE THE ROADWAY ELEVATION IS NOT CHANGED IN ANY LOCATION AFTER THE FINAL SURFACE IS PLACED. MAINTAIN ROADWAY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

REVISIONS		STATUS
DATE	BY	DESCRIPTION

DESIGNED BY: KEITH BAKER, E.I.
DRAWN BY: KEITH BAKER, E.I.
CHECKED BY: ELIUS F. NORTELLUS, P.E.
IN CHARGE: ELIUS F. NORTELLUS, P.E.
DATE: 5/19/2016

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

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



LAKE JOSEPHINE DRIVE
IMPROVEMENTS

GENERAL NOTES & SPECIFICATIONS

SCALE:
HORIZ. N/A
VERT. N/A

PROJECT NO. 13008
REV. 0

SHEET 3 OF 67

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.

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.


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	TS
4	OPTIONAL BASE, BASE GROUP 1, 4" THICK	2,300	SY
5	SIDEWALK CONCRETE, 4" THICK, 2,500 PSI MINIMUM	1,600	SY
6	DEFECTABLE WARNINGS (COLOR YELLOW) (EMBEDDED)	11	EA
7	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 12"	770	LF
8	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12"	770	LF

<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			REVISIONS			DATE	BY	DESCRIPTION										<table border="1"> <thead> <tr> <th colspan="2">STATUS</th> </tr> </thead> <tbody> <tr> <td colspan="2" style="text-align: center; color: red; font-weight: bold;">FOR BID</td> </tr> </tbody> </table>	STATUS		FOR BID		DESIGNED BY: KETH BAKER, E.I. DRAWN BY: KETH BAKER, E.I. CHECKED BY: ELIUS F. NORTELUZ, P.E. IN CHARGE: ELIUS F. NORTELUZ, P.E. DATE: 5/19/2016	<p style="text-align: center; font-weight: bold; font-size: 1.2em;">HIGHLANDS COUNTY ENGINEERING DEPARTMENT</p> <p style="text-align: center;">505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870</p>		<p style="text-align: center; font-weight: bold;">LAKE JOSEPHINE DRIVE IMPROVEMENTS</p> <p style="text-align: center; font-weight: bold;">GENERAL NOTES & SPECIFICATIONS</p>	SCALE: HORIZ. N/A VERT. N/A PROJECT NO. 13008 REV. 0 SHEET 4 OF 67
REVISIONS																											
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APPROVED BY: ELIUS F. NORTELUZ, P.E. FLORIDA REGISTRATION NO.: 70092			DATE:																								

**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) and OWNER's Road and Bridge Superintendent (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.

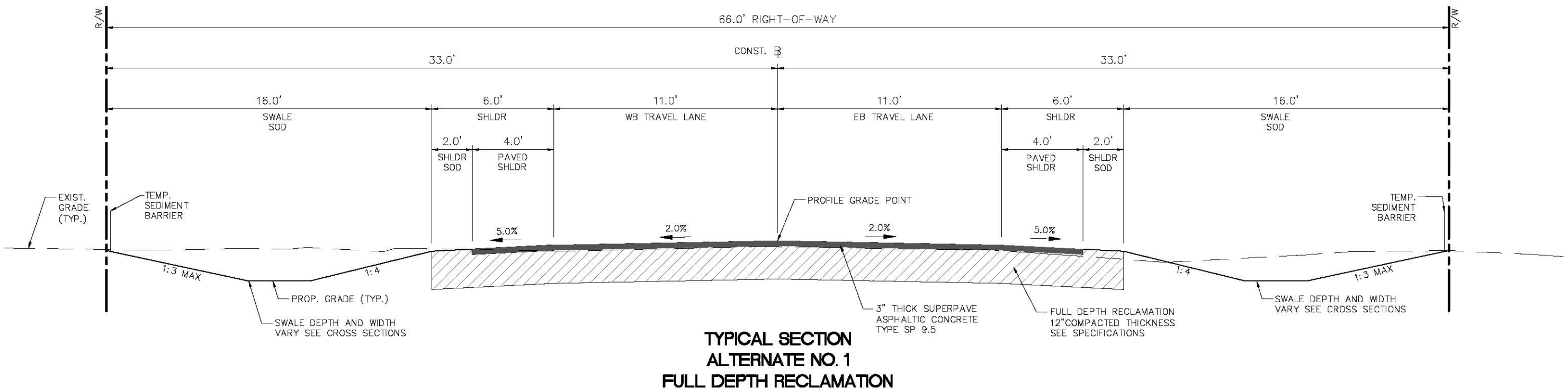
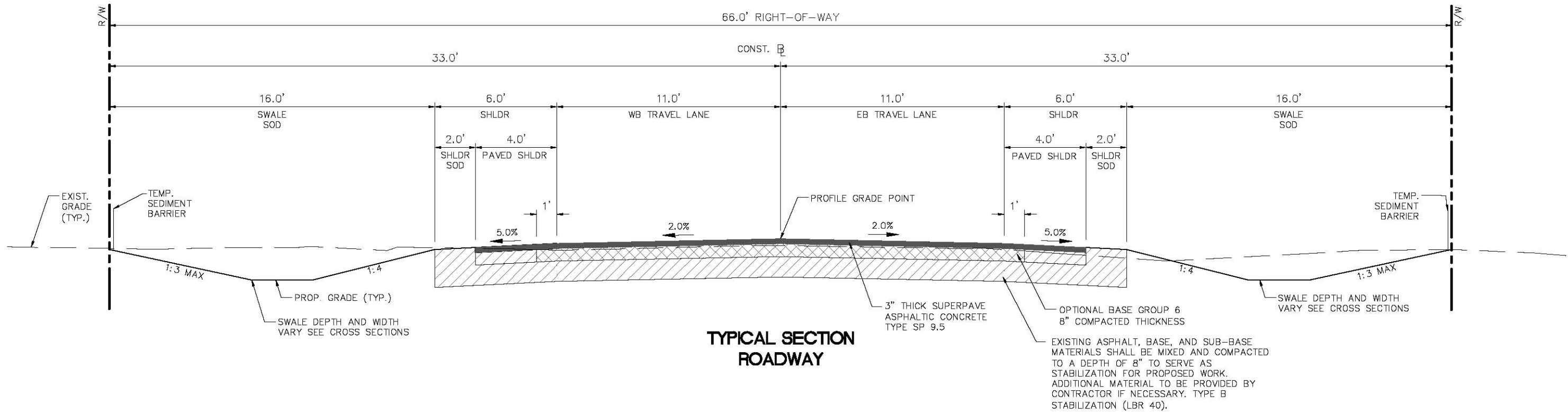
All remedial action shall be completed by CONTRACTOR within (30) thirty calendar days after OWNER notifies CONTRACTOR of the condition requiring remedial work, provided that OWNER notified CONTRACTOR of the condition and need for remedial action prior to the end of the warranty period.

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 thick full base 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 line 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 base width for the full distressed length plus 50' on each end.

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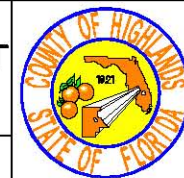
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DATE	BY	DESCRIPTION

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 IN CHARGE: ELIUS F. NORTELUS, P.E.
 DATE: 5/19/2016

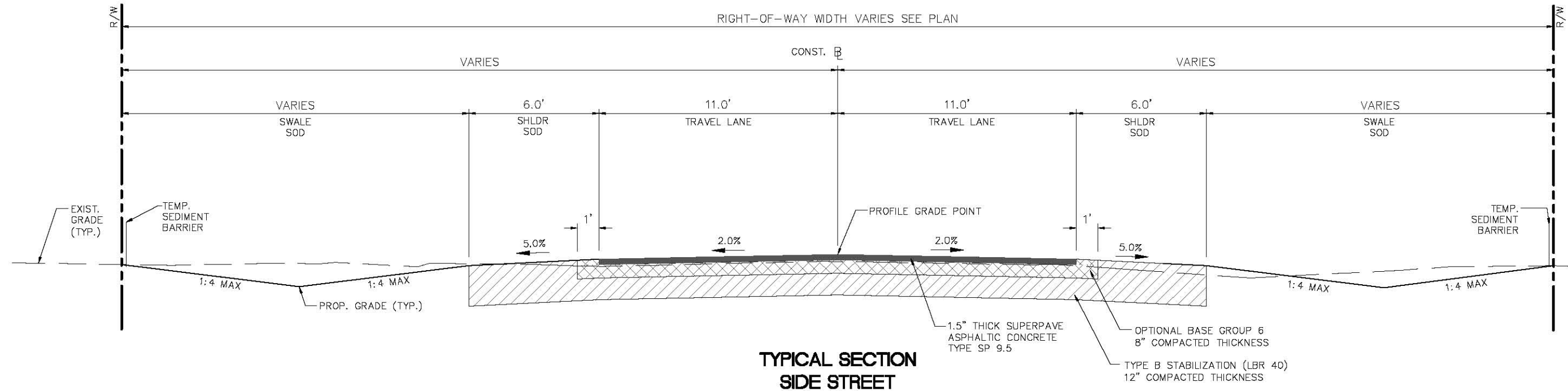
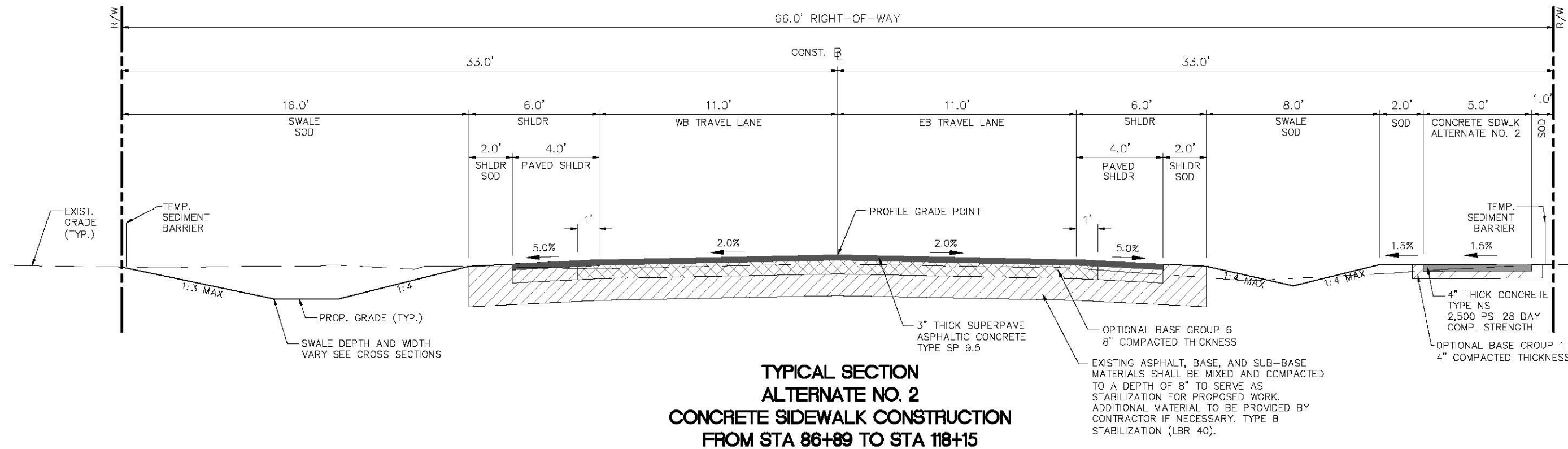
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 505 S. COMMERCE AVENUE
 SEBRING, FLORIDA 33870

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



LAKE JOSEPHINE DRIVE IMPROVEMENTS
TYPICAL SECTIONS

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



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KEITH BAKER, E.I.

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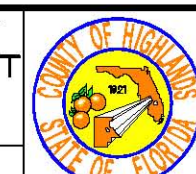
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DATE:
5/19/2016

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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
SHEET 7 OF 67	



REVISIONS		STATUS
DATE	DESCRIPTION	
		FOR BID

DESIGNED BY:
KETH BAKER, E.I.

DRAWN BY:
BRUCE DOREY

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

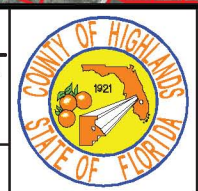
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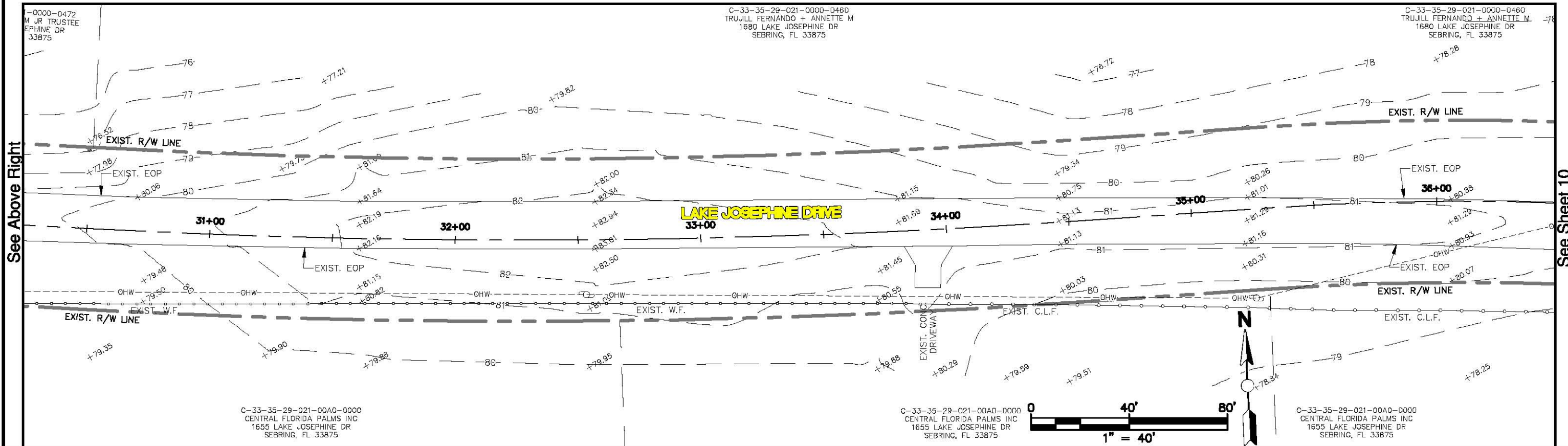
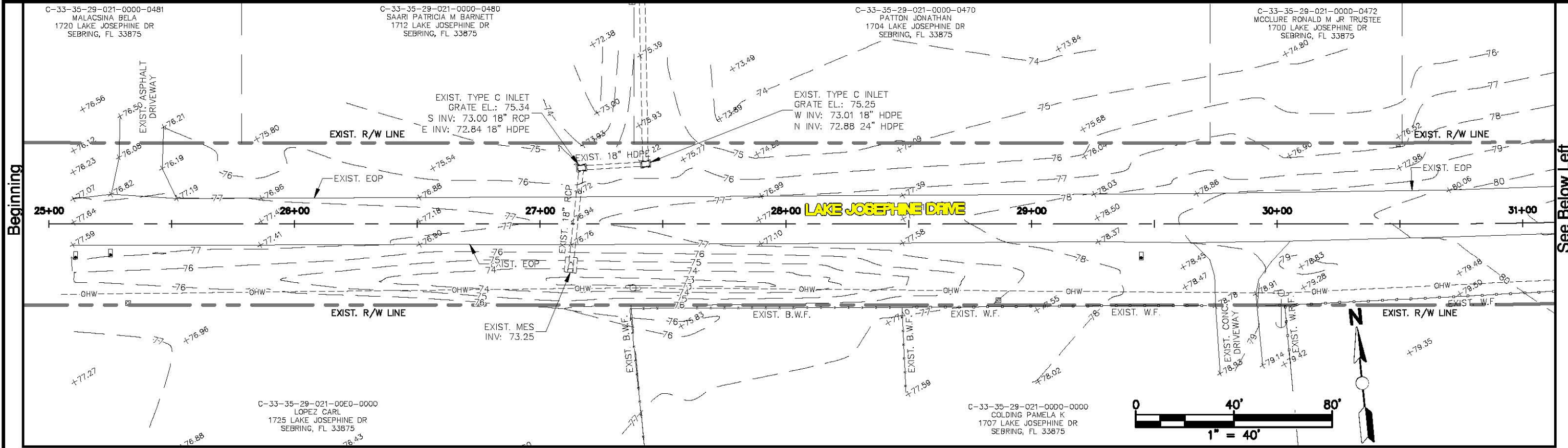
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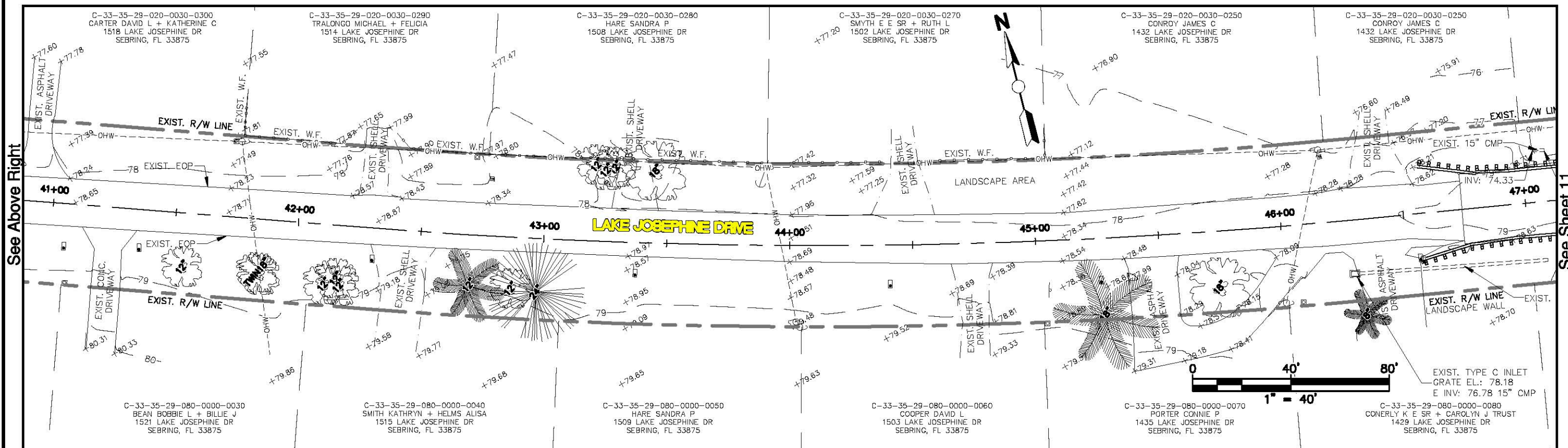
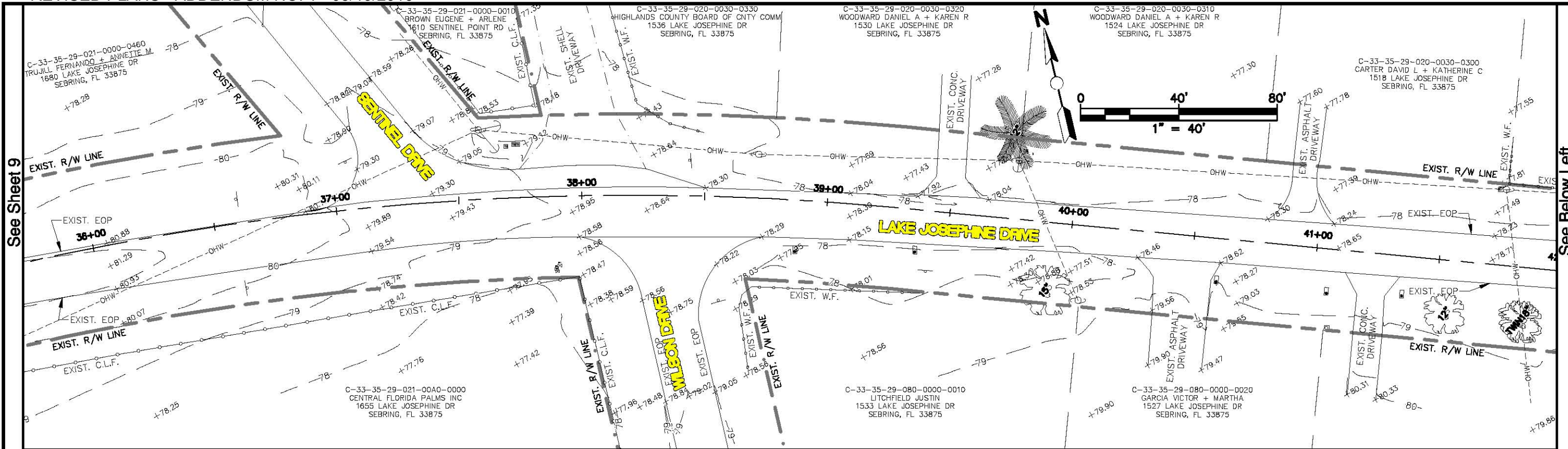



**LAKE JOSEPHINE DRIVE
IMPROVEMENTS
OVERALL SITE PLAN**

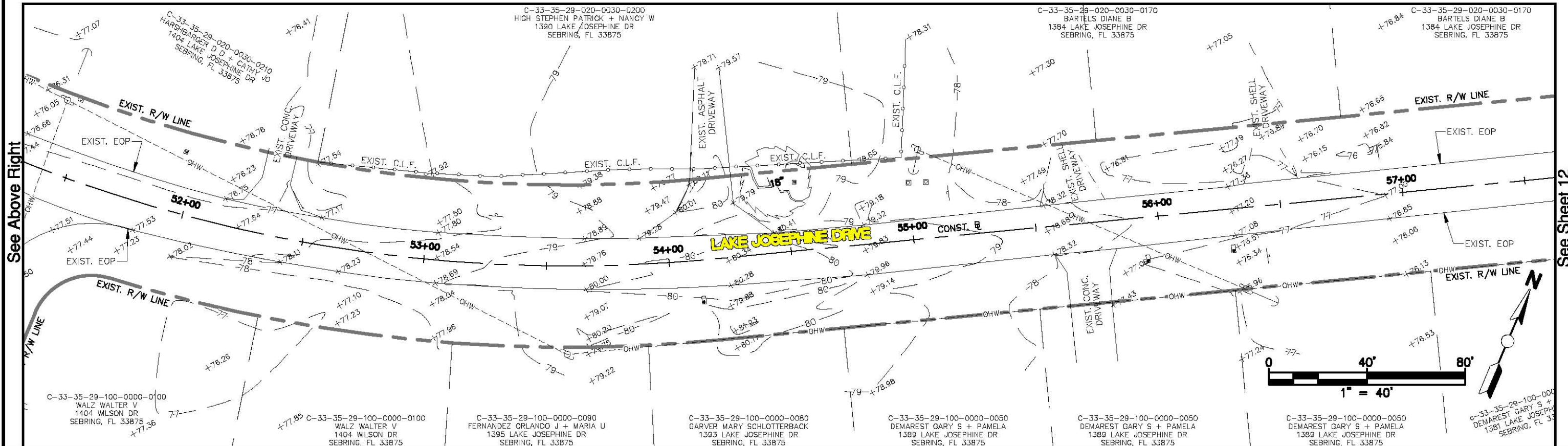
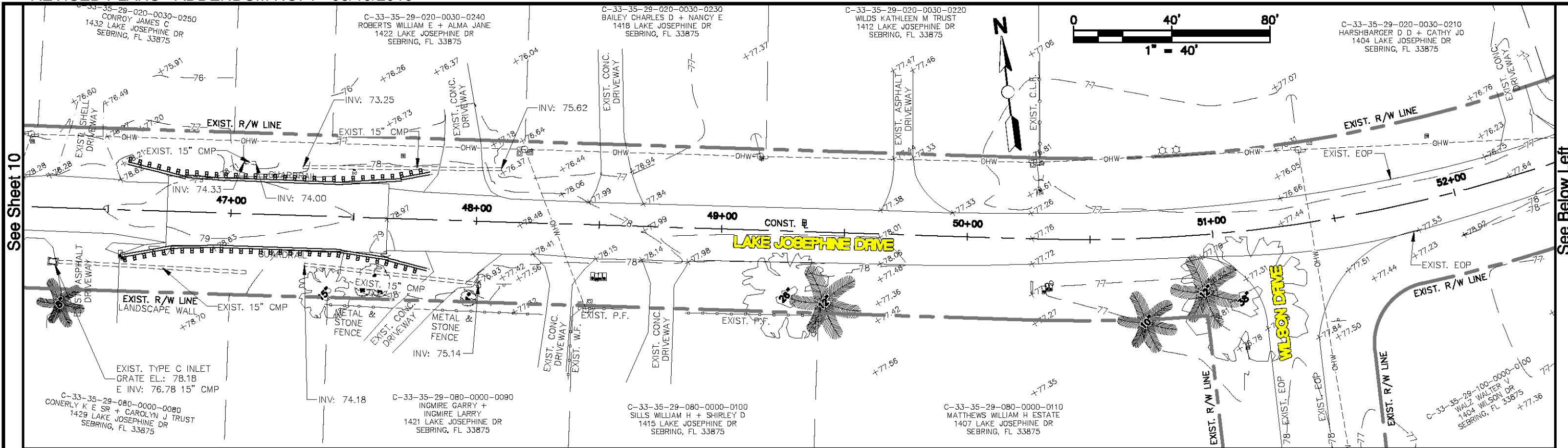
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SHEET 8 OF 67	



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					APPROVED BY: ELIUS F. NORTELUS, P.E.	DATE:	LAKE JOSEPHINE DRIVE IMPROVEMENTS EXISTING CONDITIONS		



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REVISIONS			STATUS
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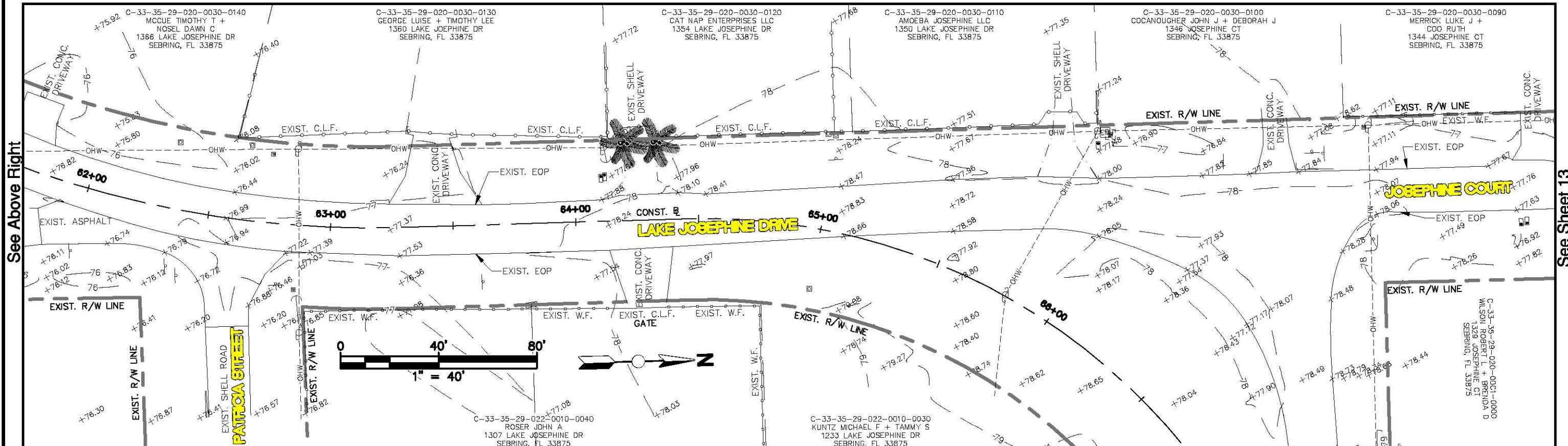
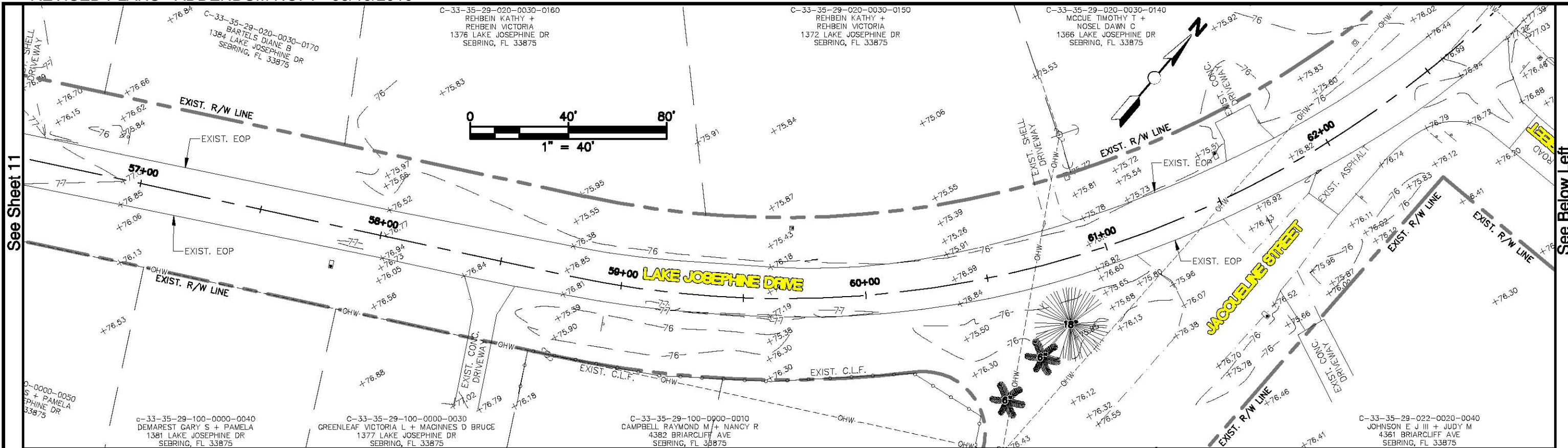


**LAKE JOSEPHINE DRIVE
 IMPROVEMENTS
 EXISTING CONDITIONS**

SCALE:
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PROJECT NO. 13008 REV. 0

SHEET 11 OF 67



REVISIONS		STATUS
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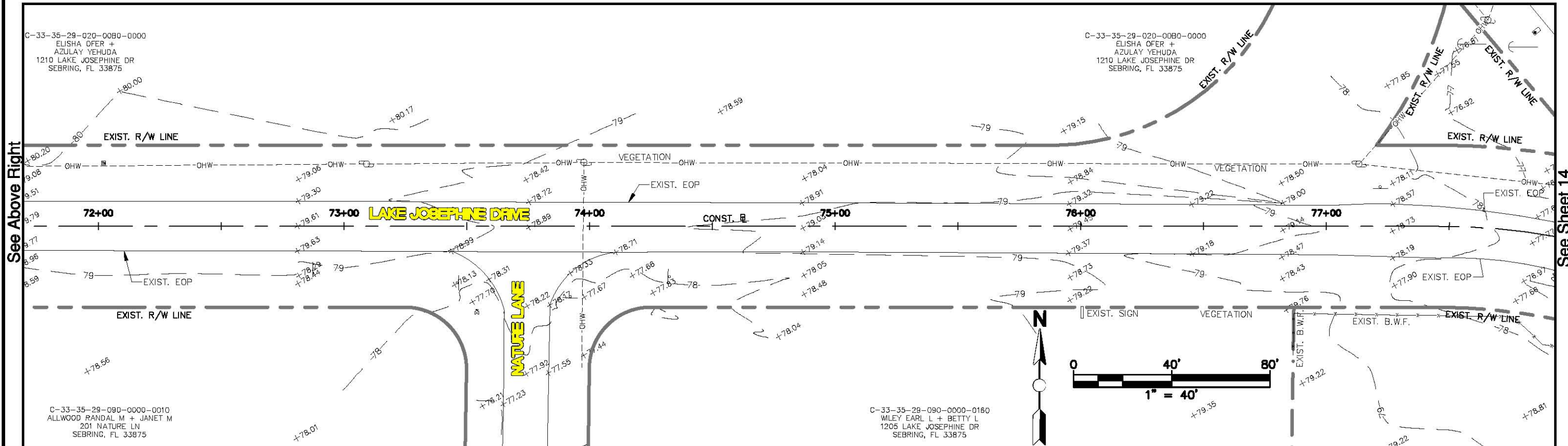
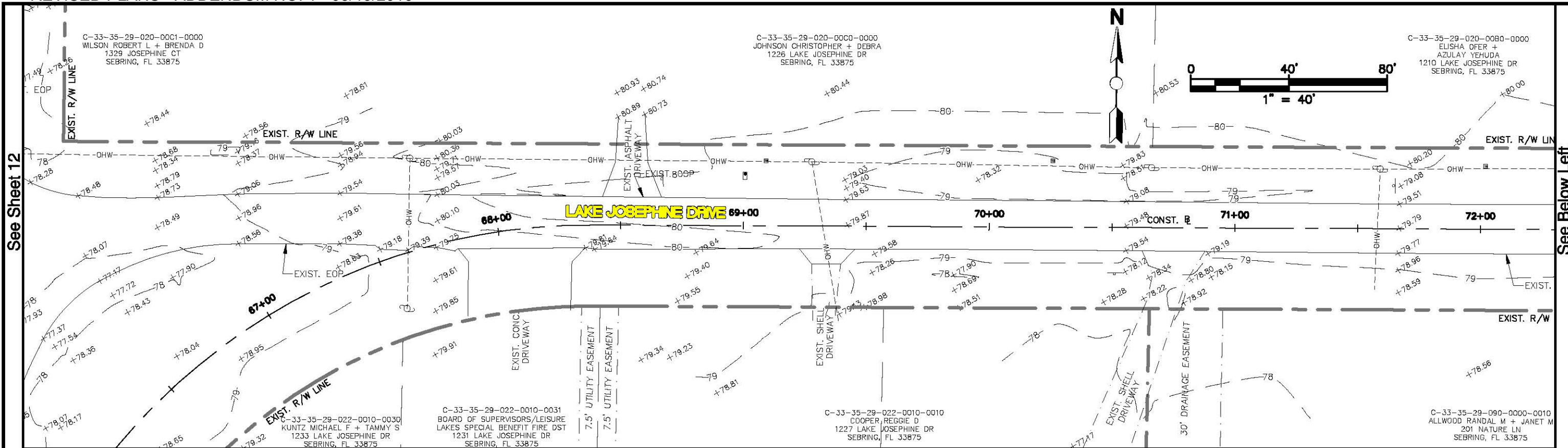
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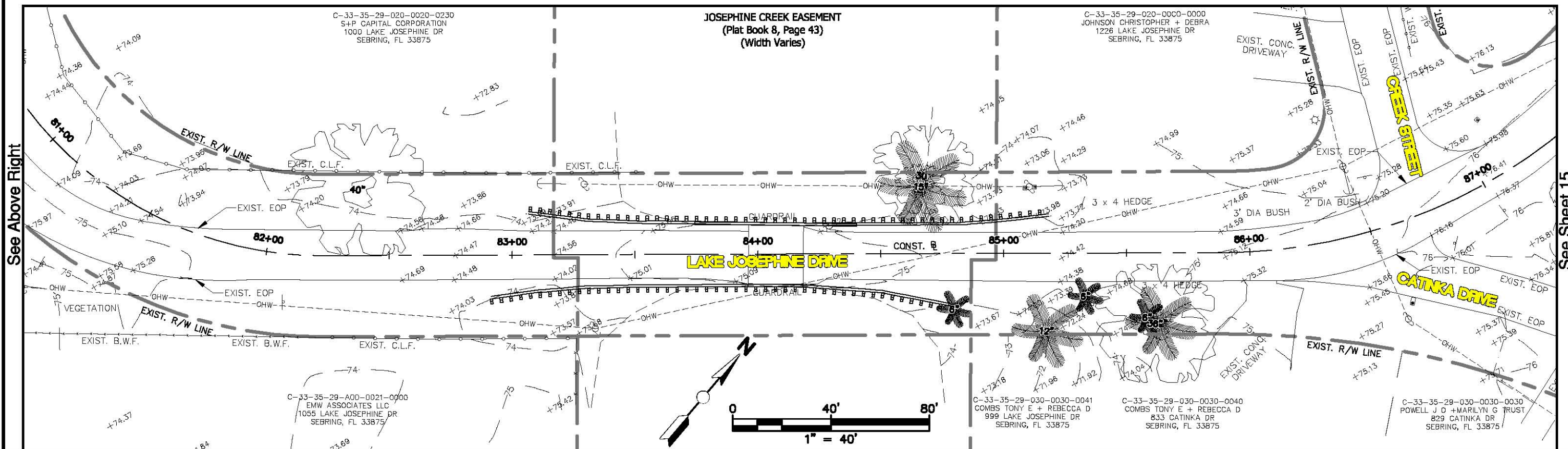
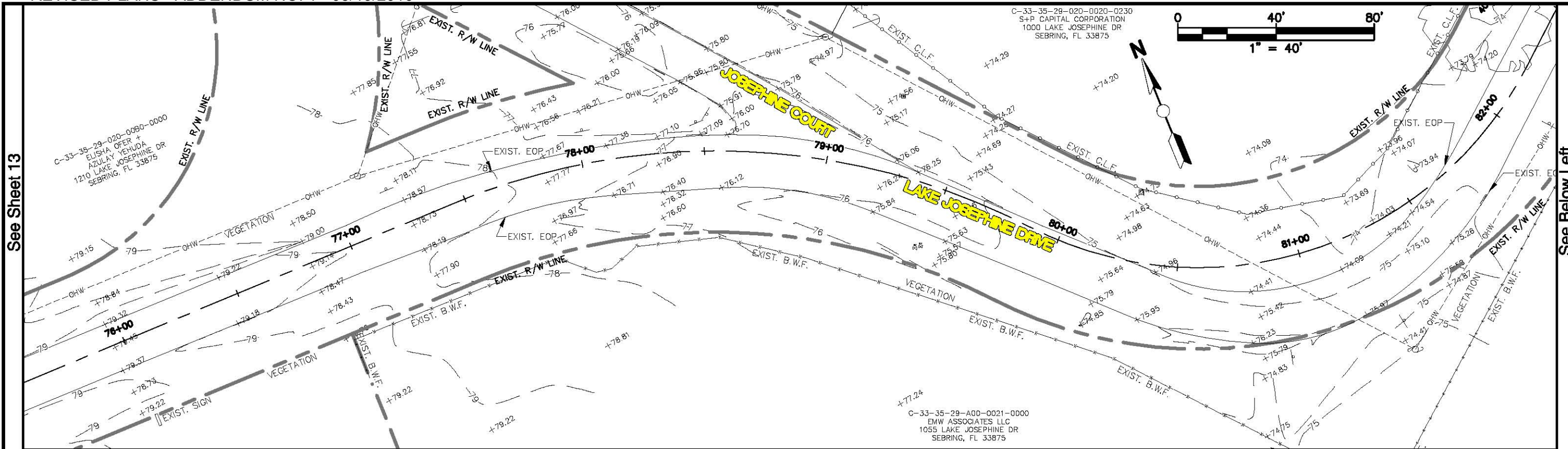
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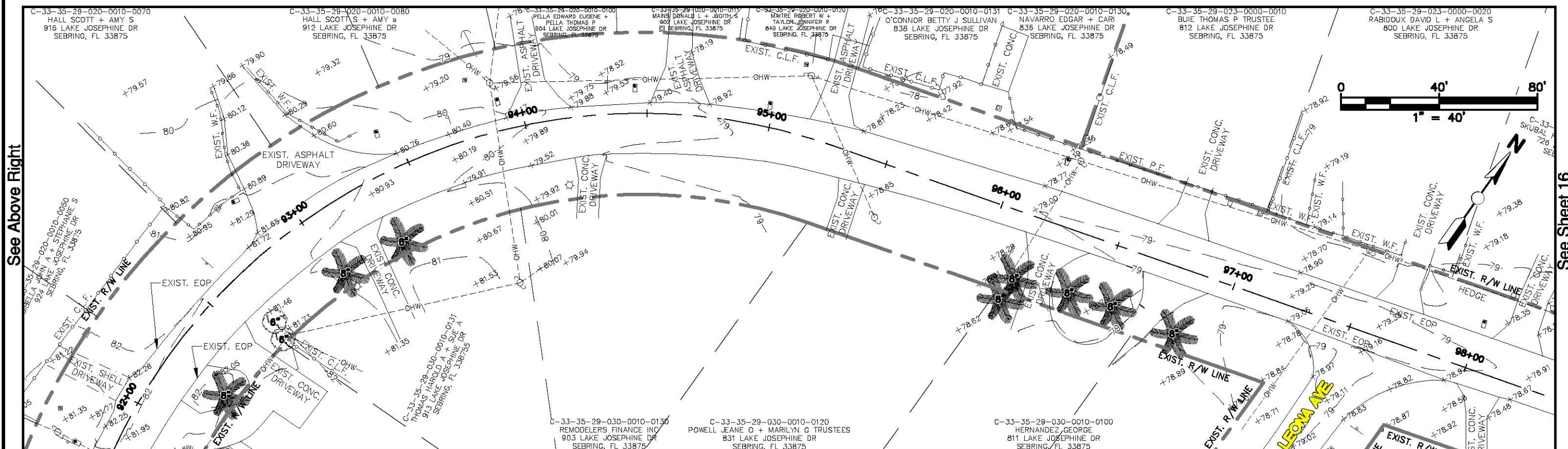
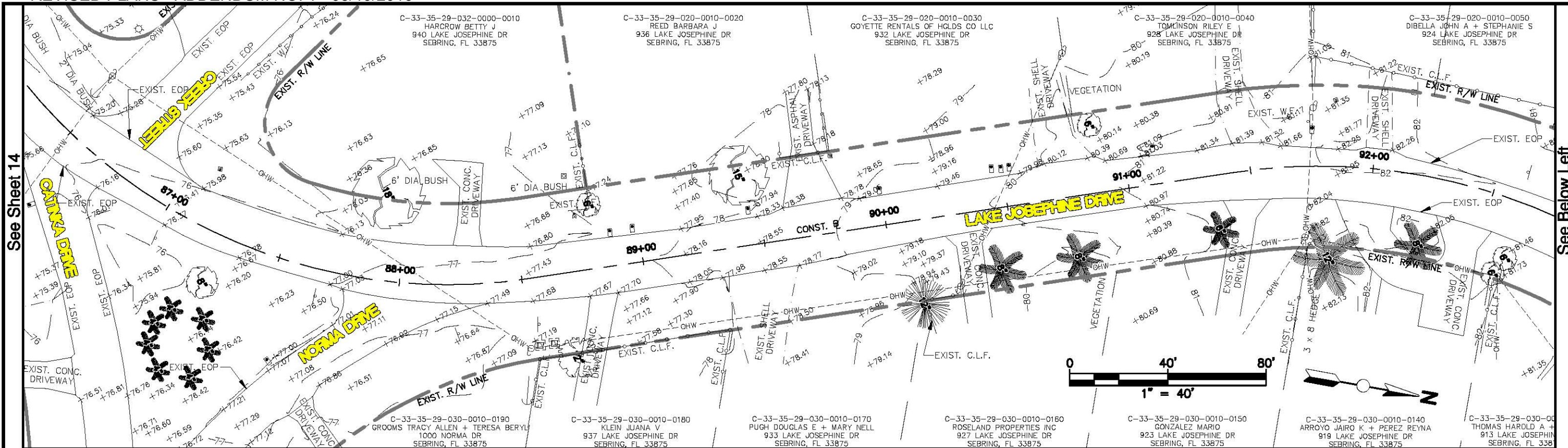
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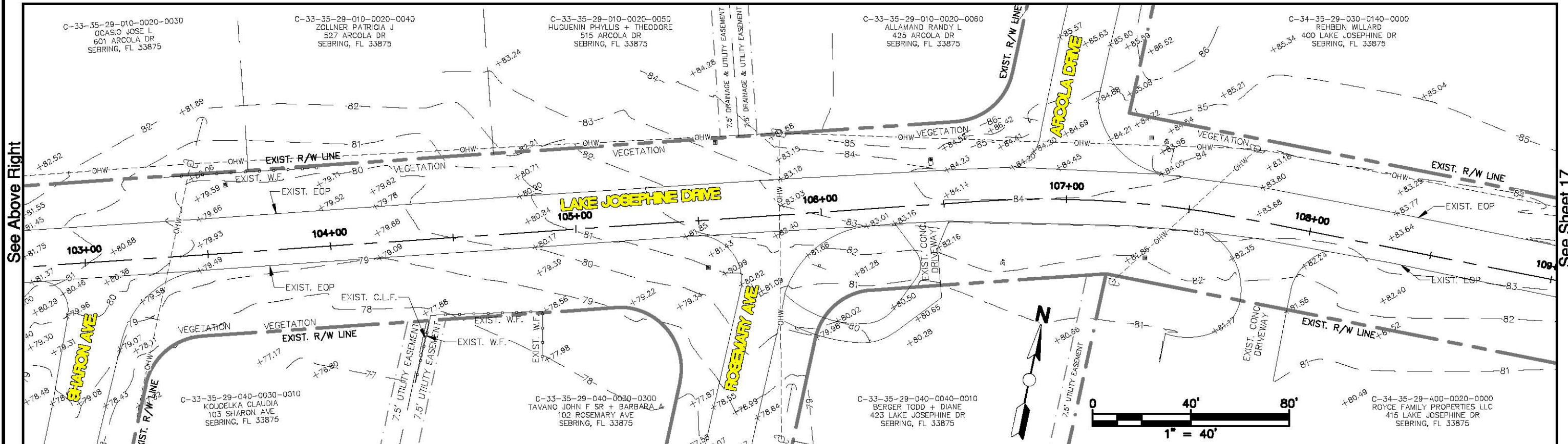
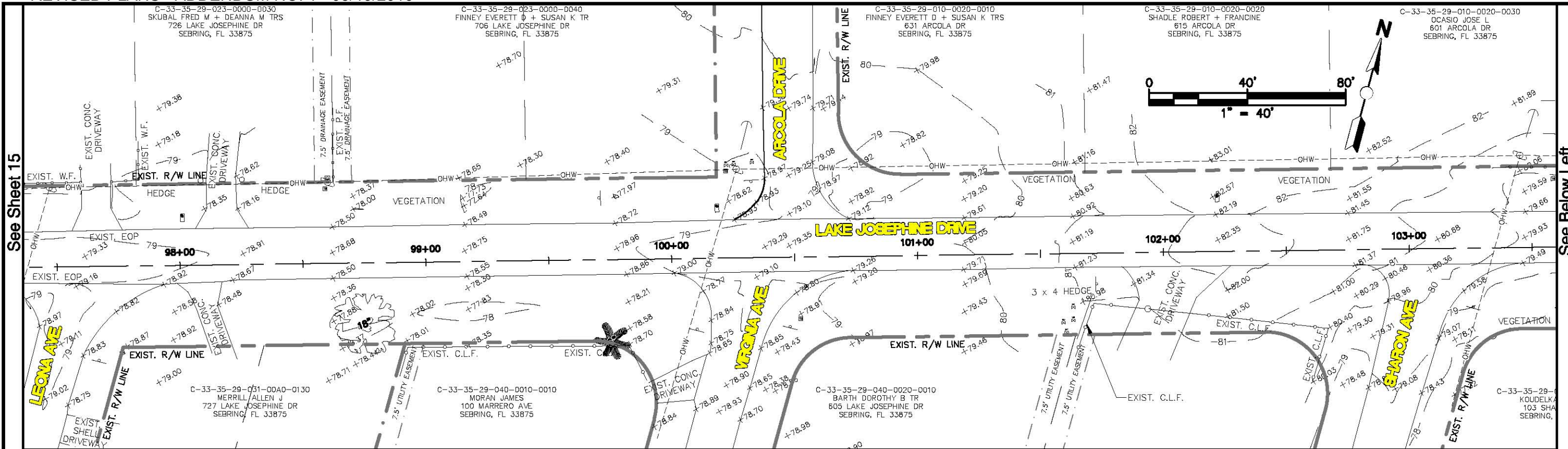
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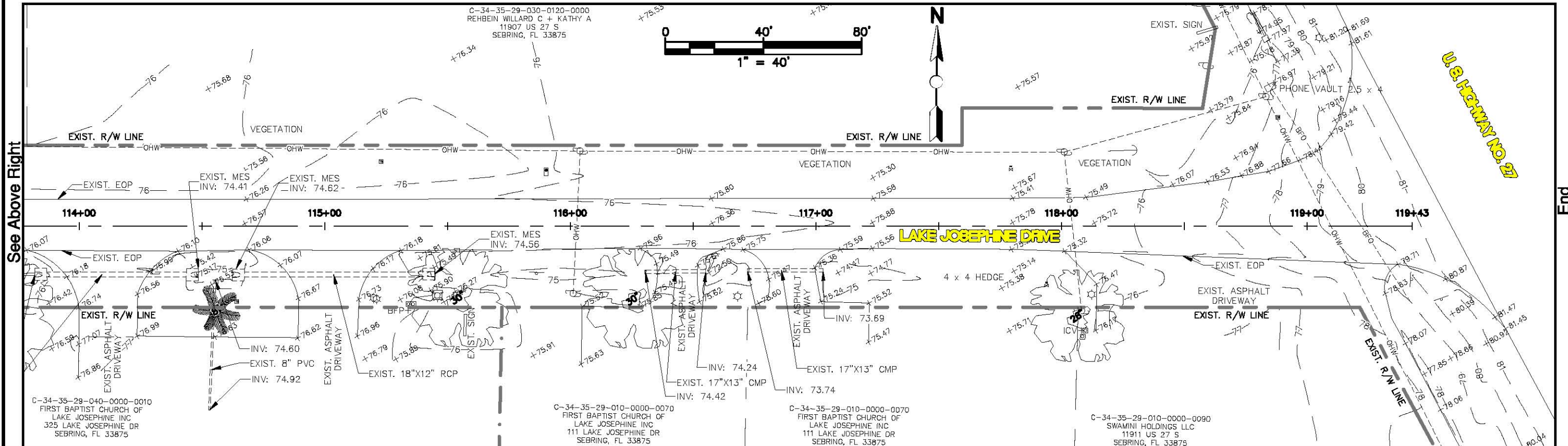
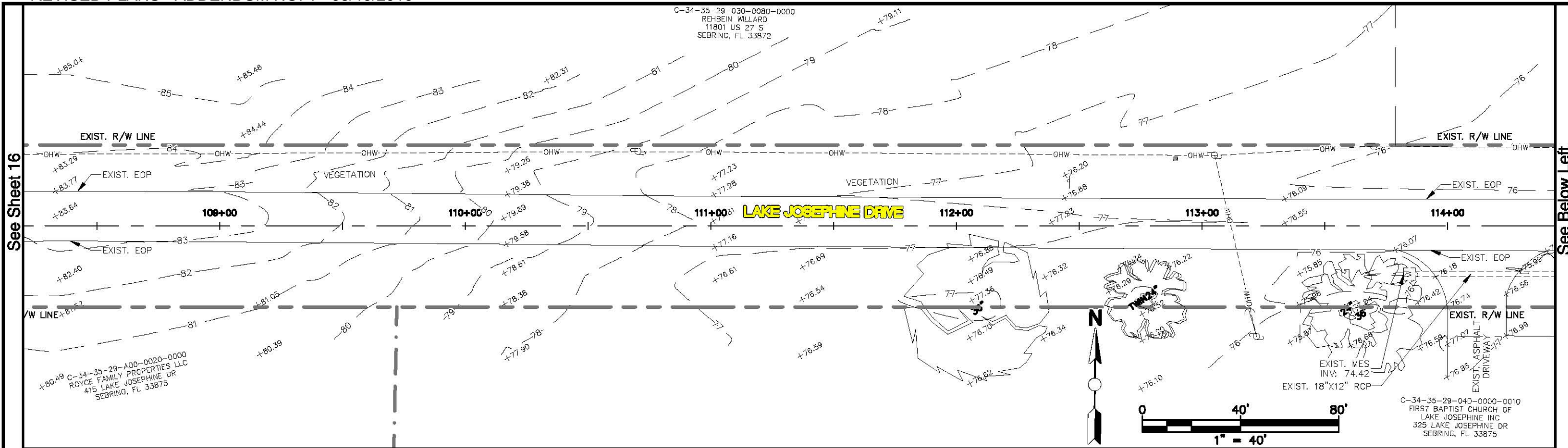
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			FOR BID		APPROVED BY: ELIUS F. NORTELUS, P.E. FLORIDA REGISTRATION NO.: 70092		DATE:													



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							SHEET 15 OF 67				



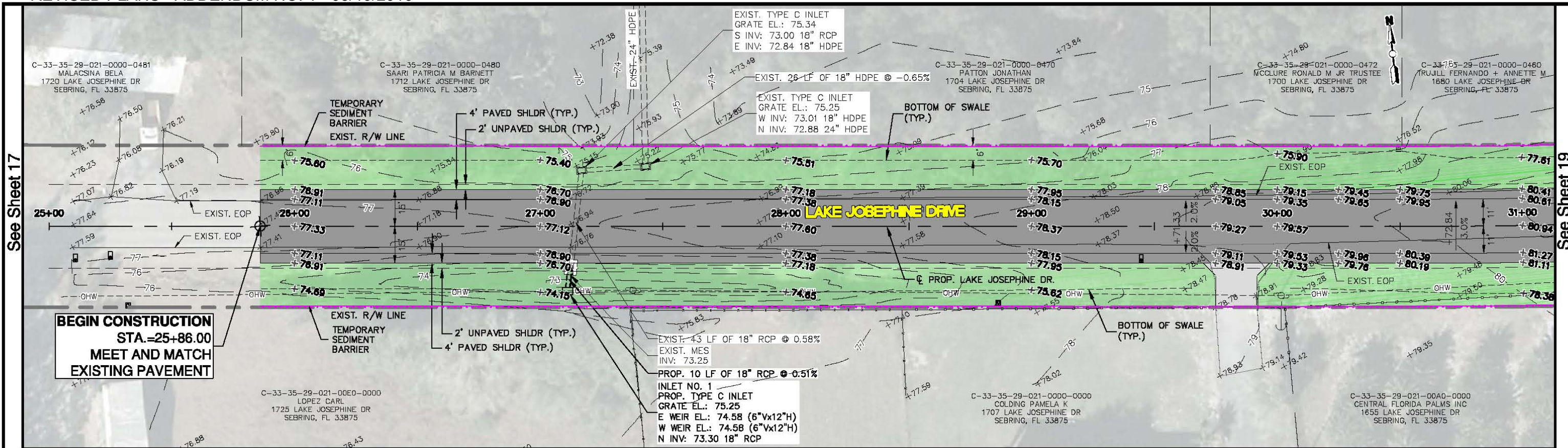
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APPROVED BY: ELIUS F. NORTELUS, P.E. DATE: 5/19/2016								SHEET 16 OF 67					



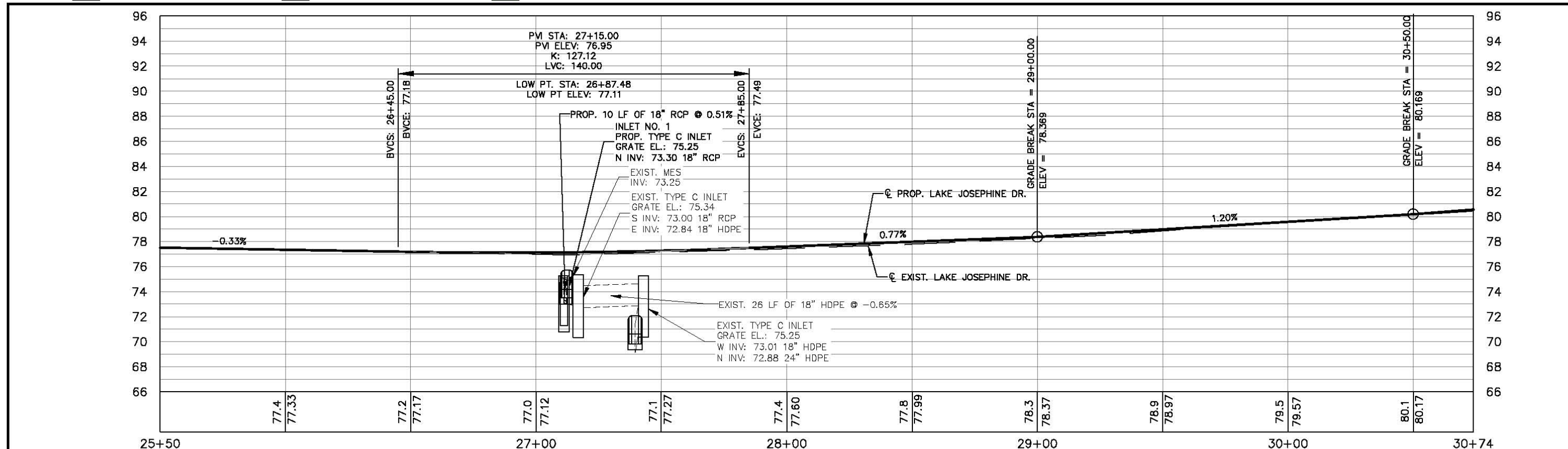
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LAKE JOSEPHINE DRIVE
IMPROVEMENTS
EXISTING CONDITIONS



PROP. ASPHALT PAVEMENT
 PROP. CONCRETE DRIVEWAY
 PROP. SOD

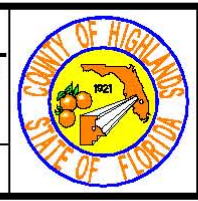


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DATE	BY	DESCRIPTION		
			FOR BID	DRAWN BY: DOUG METLUBAZ
				CHECKED BY: KEITH BAKER, E.I.
				IN CHARGE: ELIUS F. NORTELLUS, P.E.
				DATE: 5/19/2016

HIGHLANDS COUNTY
ENGINEERING DEPARTMENT
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 SEBRING, FLORIDA 33870

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

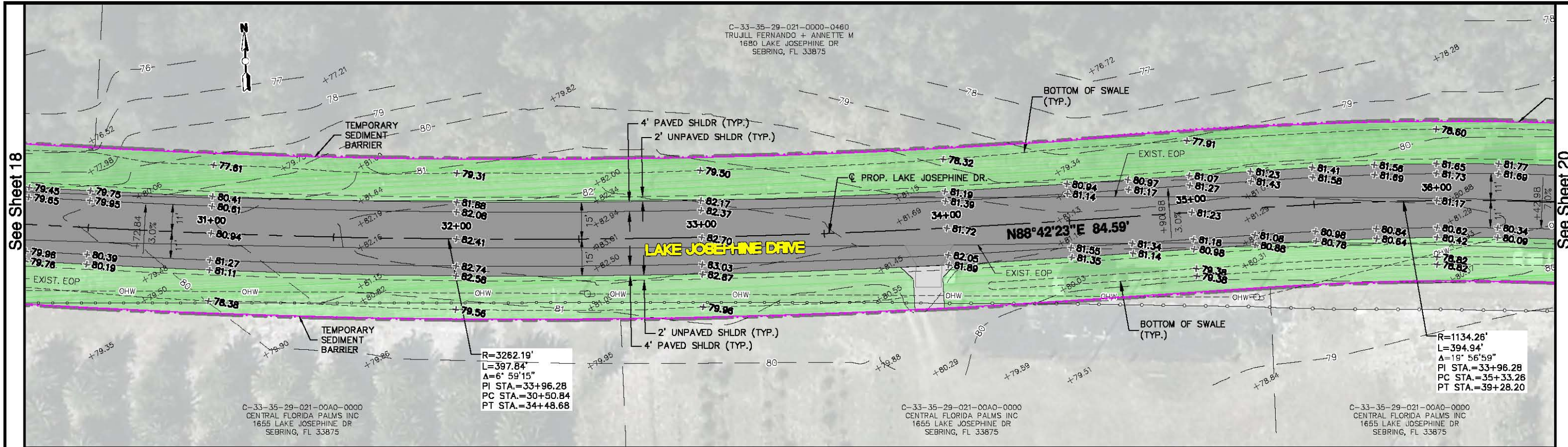
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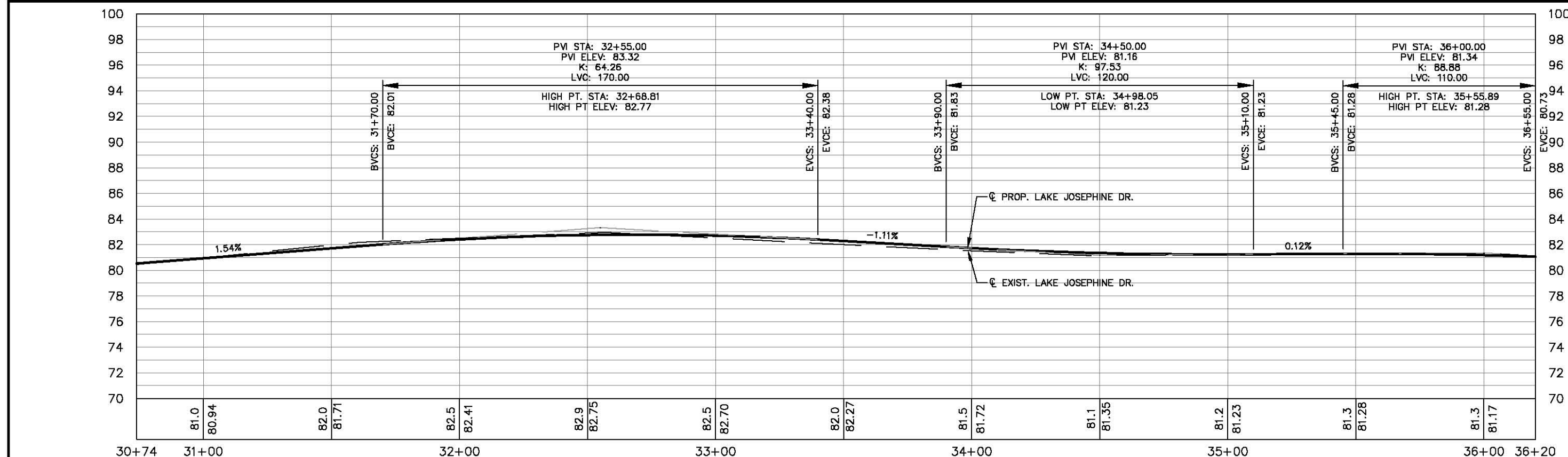
LAKE JOSEPHINE DRIVE
IMPROVEMENTS
PLAN & PROFILE

SCALE:
 HORIZ. 1"=40'
 VERT. 1"=8'
 PROJECT NO. 13008
 REV. 0
 SHEET 18 OF 67

C-33-35-29-021-0000-0460
 TRUJILL FERNANDO + ANNETTE M
 1680 LAKE JOSEPHINE DR
 SEBRING, FL 33875



PROP. ASPHALT PAVEMENT
 PROP. CONCRETE DRIVEWAY
 PROP. SOD

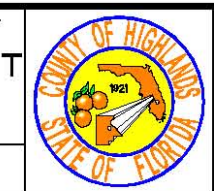


REVISIONS		STATUS
DATE	DESCRIPTION	
		FOR BID

**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: 5/19/2016

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



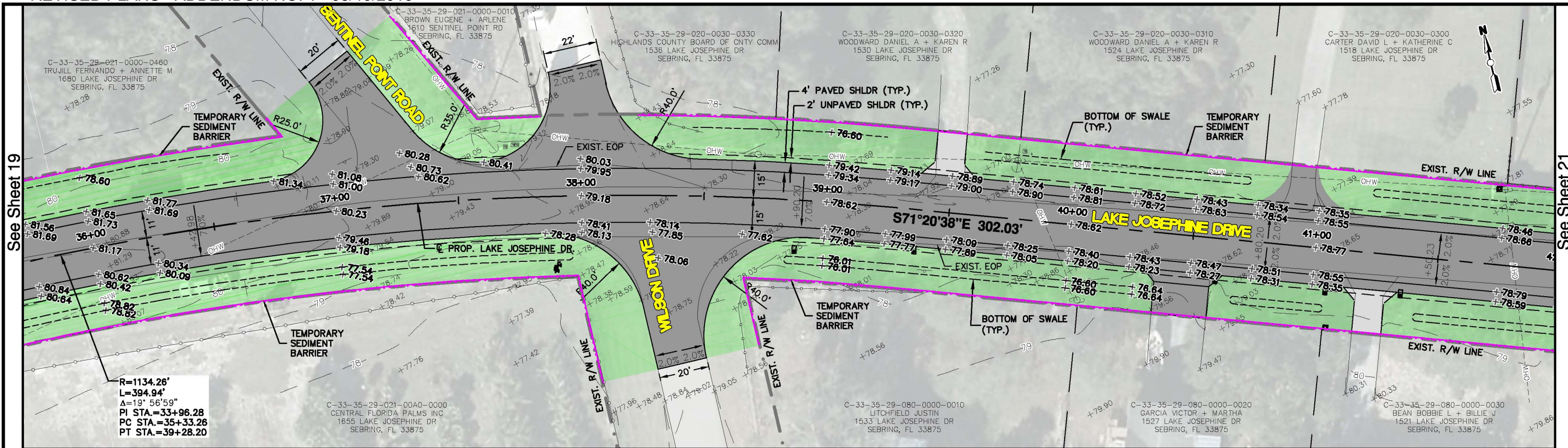
**LAKE JOSEPHINE DRIVE
 IMPROVEMENTS
 PLAN & PROFILE**

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

PROJECT NO. 13008 REV. 0

SHEET 19 OF 67

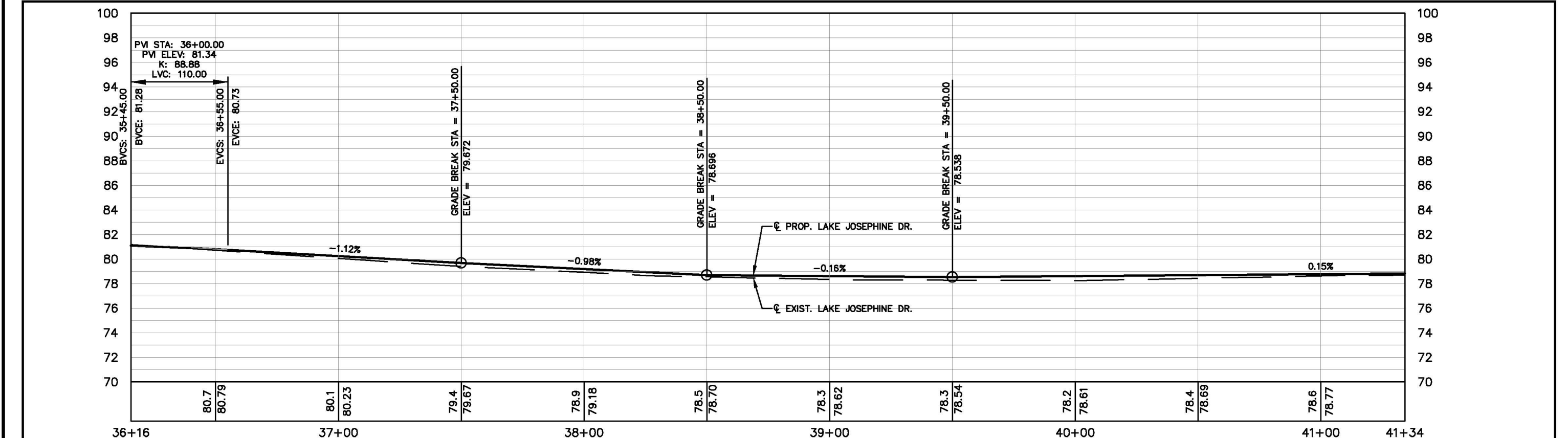
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See Sheet 19

See Sheet 21

PROP. ASPHALT PAVEMENT
 PROP. CONCRETE DRIVEWAY
 PROP. SOD

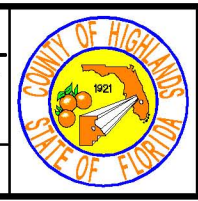


REVISIONS		STATUS
DATE	DESCRIPTION	
		FOR BID

DESIGNED BY: ELIUS F. NORTELUS, P.E.
 DRAWN BY: DOUG METLUBCZ
 CHECKED BY: KEITH BAKER, E.I.
 IN CHARGE: ELIUS F. NORTELUS, P.E.
 DATE: 5/19/2016

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

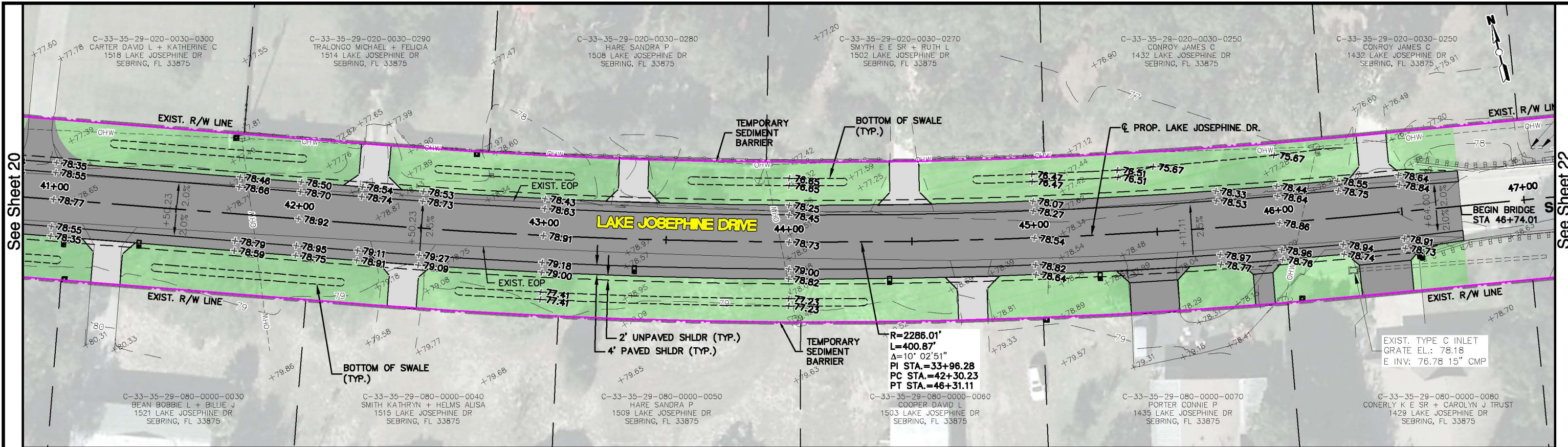
APPROVED BY: ELIUS F. NORTELUS, P.E.
 FLORIDA REGISTRATION NO.: 70092



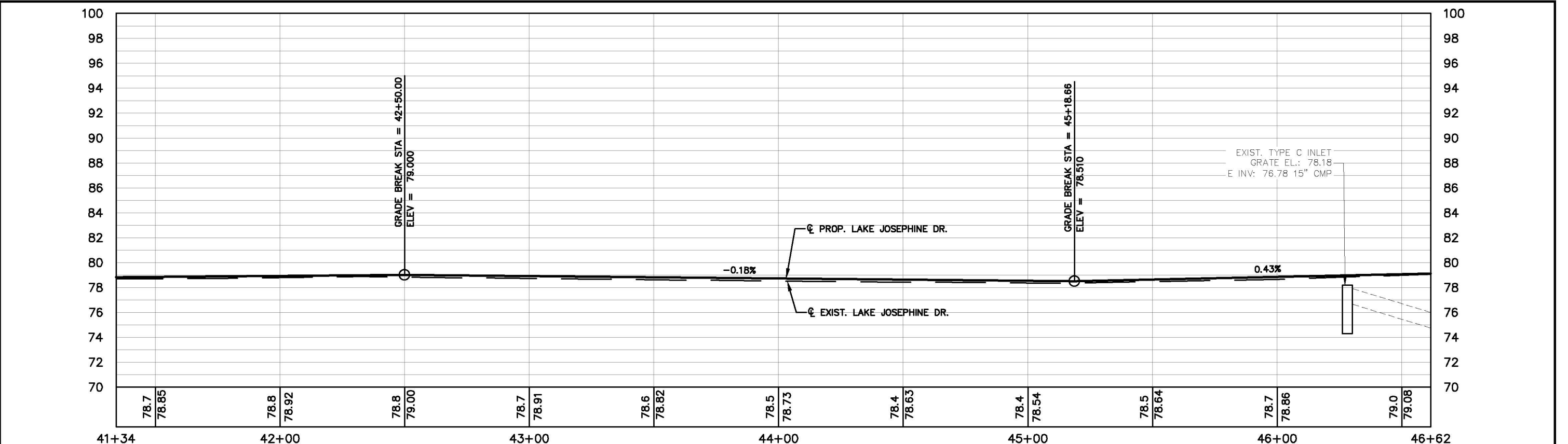
LAKE JOSEPHINE DRIVE
IMPROVEMENTS
PLAN & PROFILE

SCALE:
 HORIZ. 1"=40'
 VERT. 1"=8'
 PROJECT NO. 13008
 REV. 0
 SHEET 20 OF 67

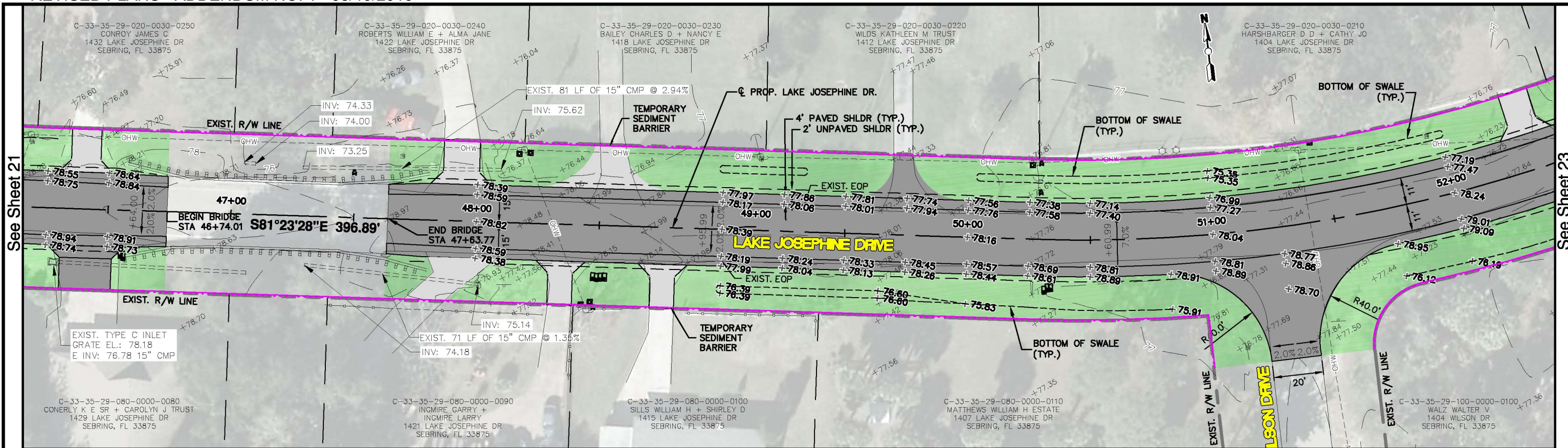
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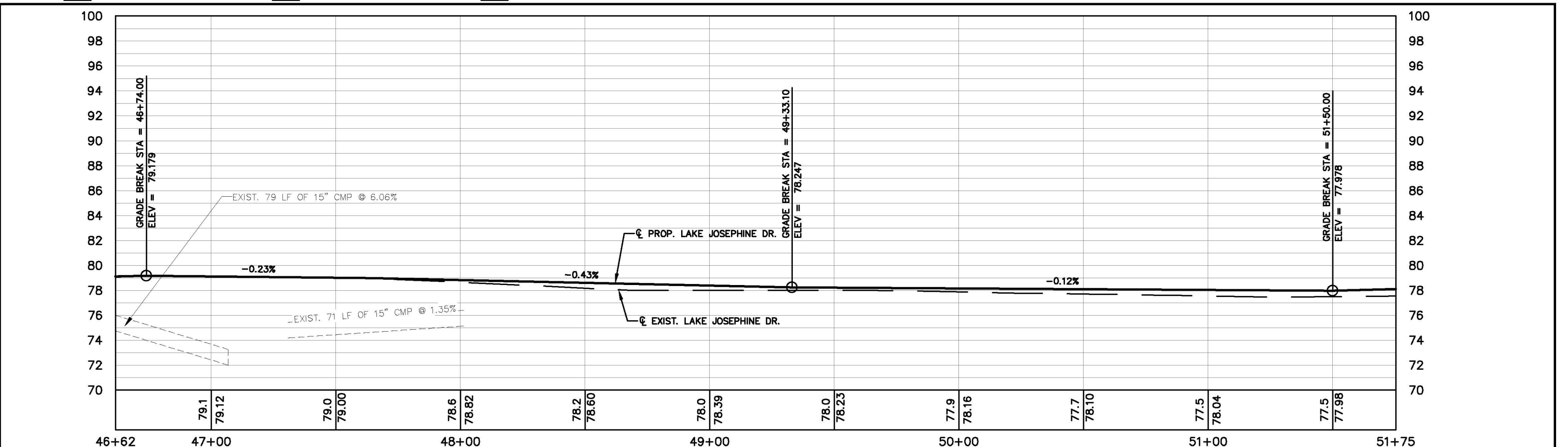
PROP. ASPHALT PAVEMENT
 PROP. CONCRETE DRIVEWAY
 PROP. SOD



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: 5/19/2016		HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870		LAKE JOSEPHINE DRIVE IMPROVEMENTS PLAN & PROFILE		SCALE:	
DATE	BY	DESCRIPTION	FOR BID							APPROVED BY: ELIUS F. NORTELUS, P.E. FLORIDA REGISTRATION NO.: 70092	
SHEET 21 OF 67											



PROP. ASPHALT PAVEMENT
 PROP. CONCRETE DRIVEWAYS
 PROP. SOD

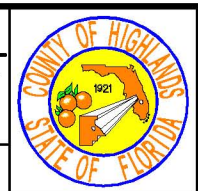


REVISIONS		STATUS
DATE	DESCRIPTION	
		FOR BID

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

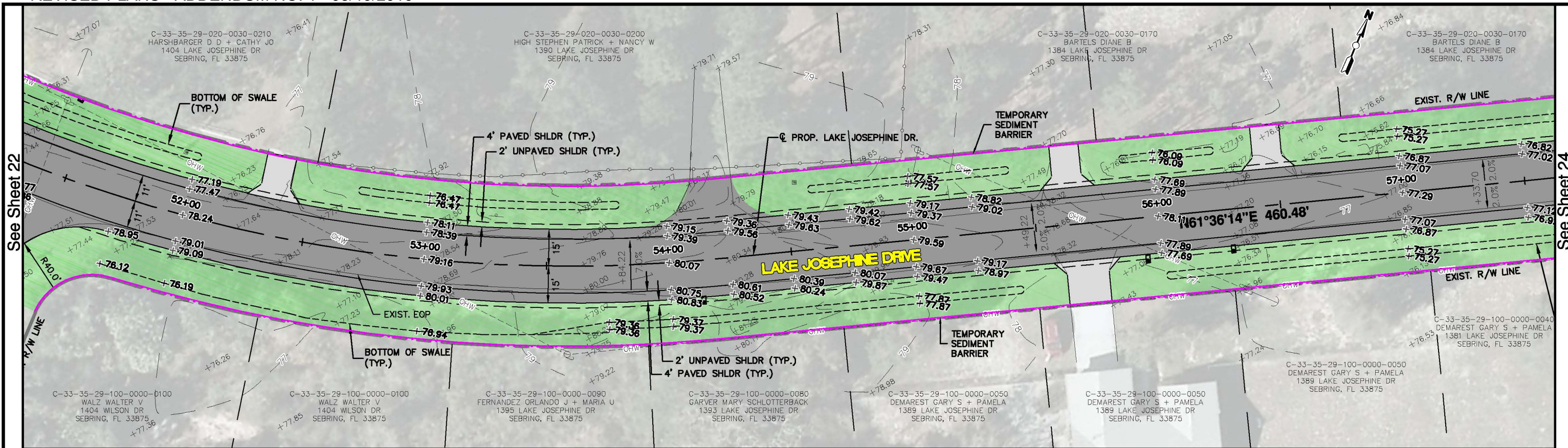
DESIGNED BY: ELIUS F. NORTELLUS, P.E.
 DRAWN BY: DOUG NIETUBICZ
 CHECKED BY: KEITH BAKER, E.I.
 IN CHARGE: ELIUS F. NORTELLUS, P.E.
 DATE: 5/19/2016

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

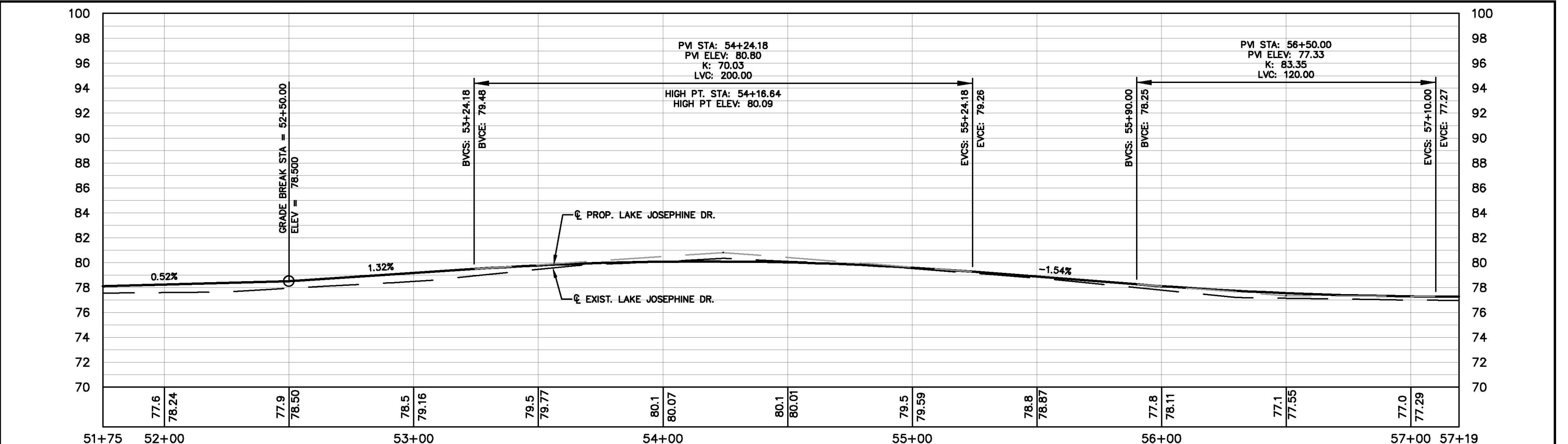


LAKE JOSEPHINE DRIVE
IMPROVEMENTS
PLAN & PROFILE

SCALE:
 HORIZ. 1"=40'
 VERT. 1"=8'
 PROJECT NO. 13008
 REV. 0
 SHEET 22 OF 67



PROP. ASPHALT PAVEMENT
 PROP. CONCRETE DRIVEWAY
 PROP. SOD



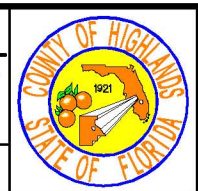
REVISIONS		
DATE	BY	DESCRIPTION

STATUS
FOR BID

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

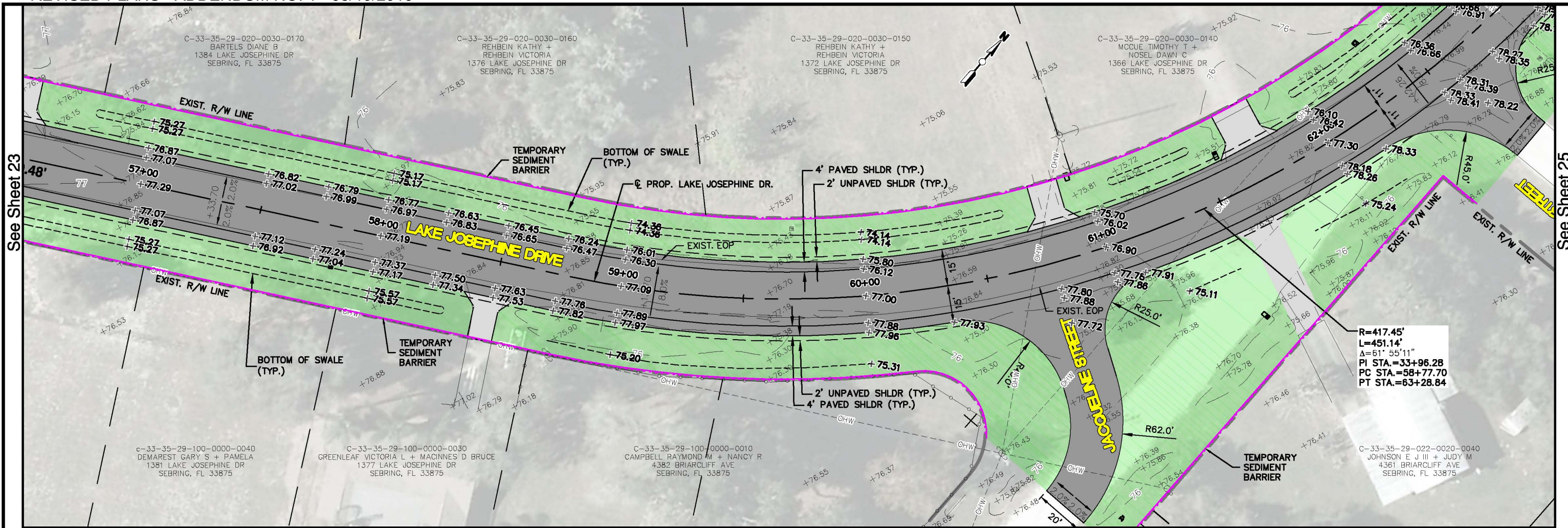
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 DRAWN BY: DOUG NIETUBICZ
 CHECKED BY: KEITH BAKER, E.I.
 IN CHARGE: ELIUS F. NORTELUS, P.E.
 DATE: 5/19/2016

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

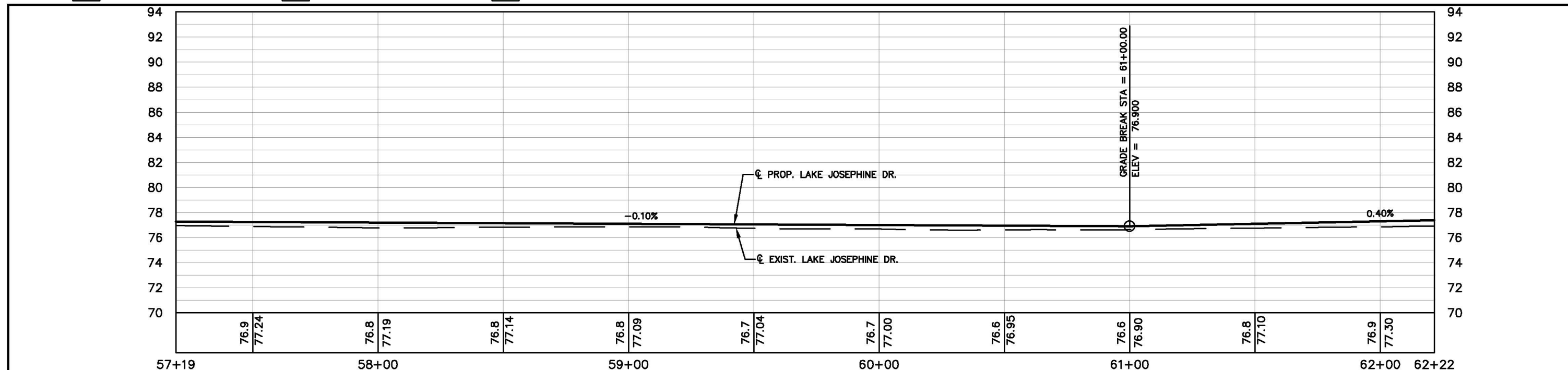


LAKE JOSEPHINE DRIVE
IMPROVEMENTS
PLAN & PROFILE

SCALE:
 HORIZ. 1"=40'
 VERT. 1"=8'
 PROJECT NO. 13008
 REV. 0
 SHEET 23 OF 67



PROP. ASPHALT PAVEMENT
 PROP. CONCRETE DRIVEWAY
 PROP. SOD

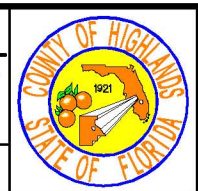


REVISIONS		STATUS
DATE	DESCRIPTION	
		FOR BID

DESIGNED BY: ELIUS F. NORTELUS, P.E.
 DRAWN BY: DOUG METLUBCZ
 CHECKED BY: KEITH BAKER, E.I.
 IN CHARGE: ELIUS F. NORTELUS, P.E.
 DATE: 5/19/2016

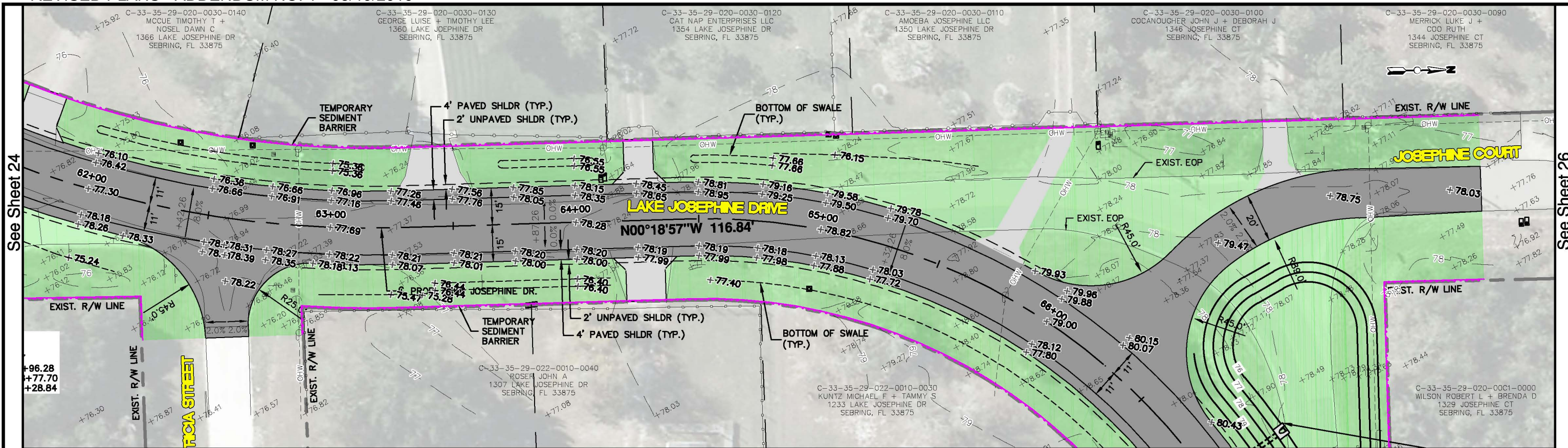
HIGHLANDS COUNTY
ENGINEERING DEPARTMENT
 505 S. COMMERCE AVENUE
 SEBRING, FLORIDA 33870

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

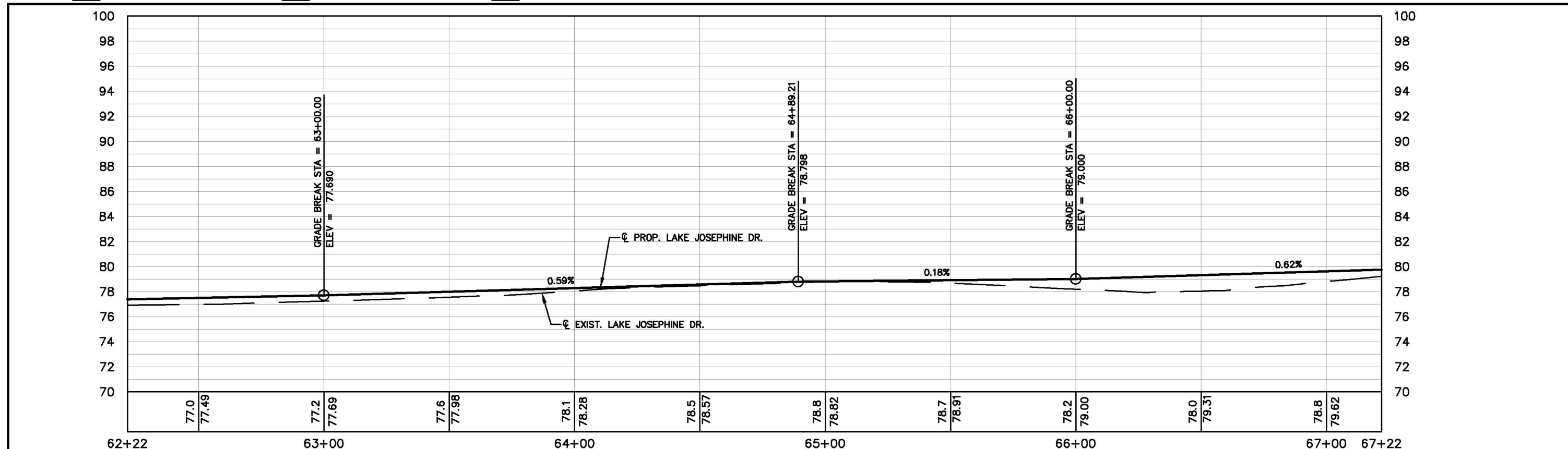


LAKE JOSEPHINE DRIVE
IMPROVEMENTS
PLAN & PROFILE

SCALE: HORIZ. 1"=40' VERT. 1"=8'	
PROJECT NO. 13008	REV. 0
SHEET 24 OF 67	

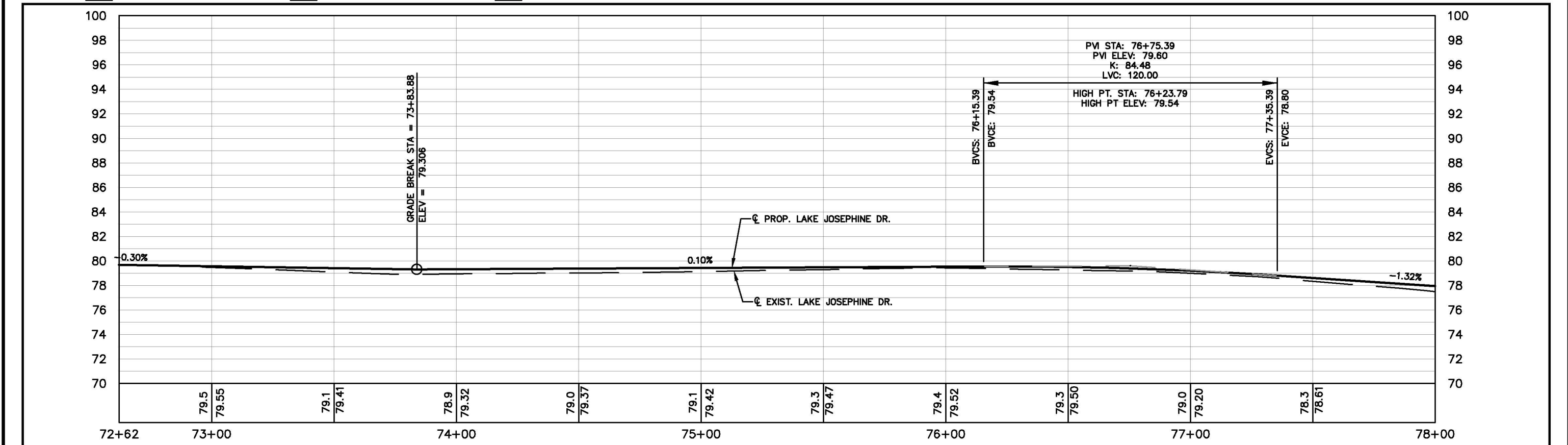
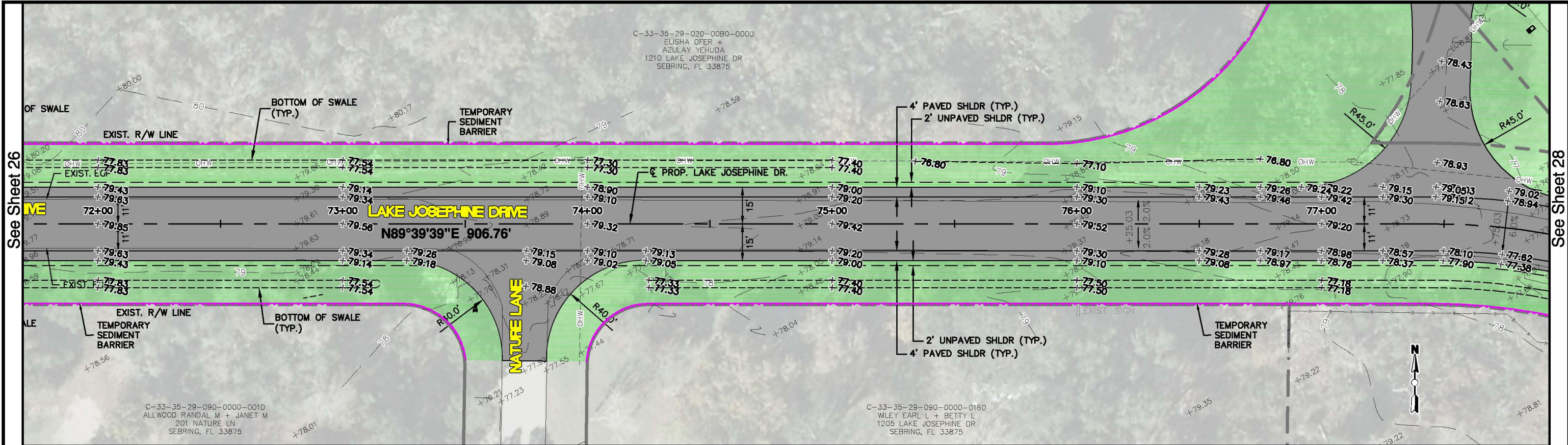


PROP. ASPHALT PAVEMENT
 PROP. CONCRETE DRIVEWAY
 PROP. SOD



DATE		BY	REVISIONS	DESCRIPTION	STATUS	DESIGNED BY:	HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870	 COUNTY OF HIGHLANDS STATE OF FLORIDA	SCALE:		
					FOR BID	ELIUS F. NORTELUS, P.E.			LAKE JOSEPHINE DRIVE IMPROVEMENTS PLAN & PROFILE	HORIZ. 1"=40'	
						DRAWN BY:				VERT. 1"=8'	
						DOUG NIETUBICZ				PROJECT NO.	REV.
						CHECKED BY:				13008	0
						KETH BAKER, E.I.	SHEET 25 OF 67				
					IN CHARGE:	APPROVED BY:	DATE:				
					ELIUS F. NORTELUS, P.E.	ELIUS F. NORTELUS, P.E.	5/19/2016	FLORIDA REGISTRATION NO.: 70092			

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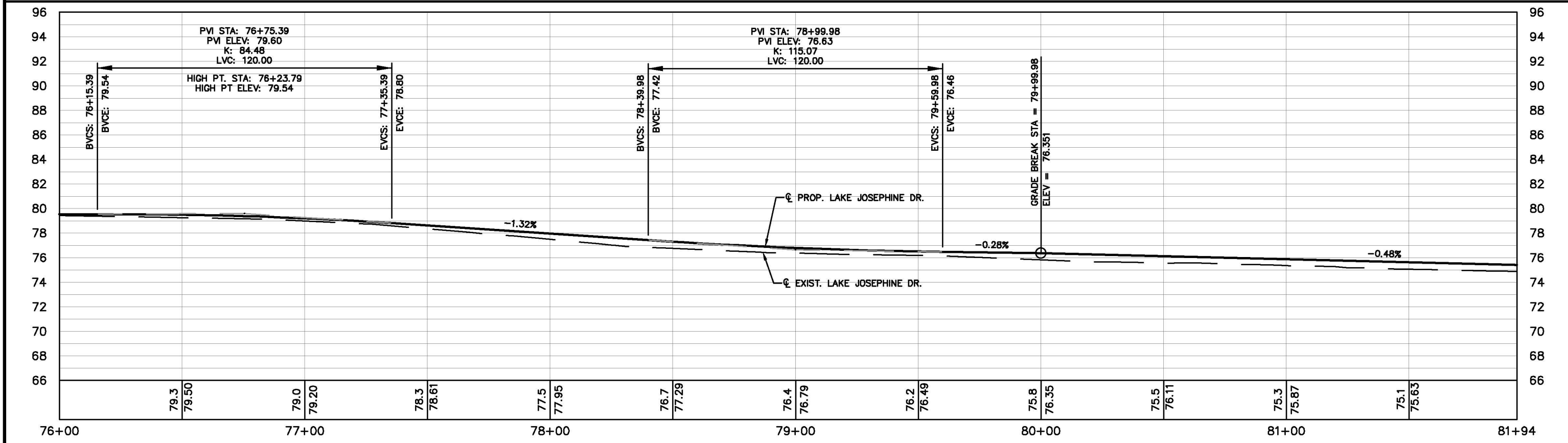
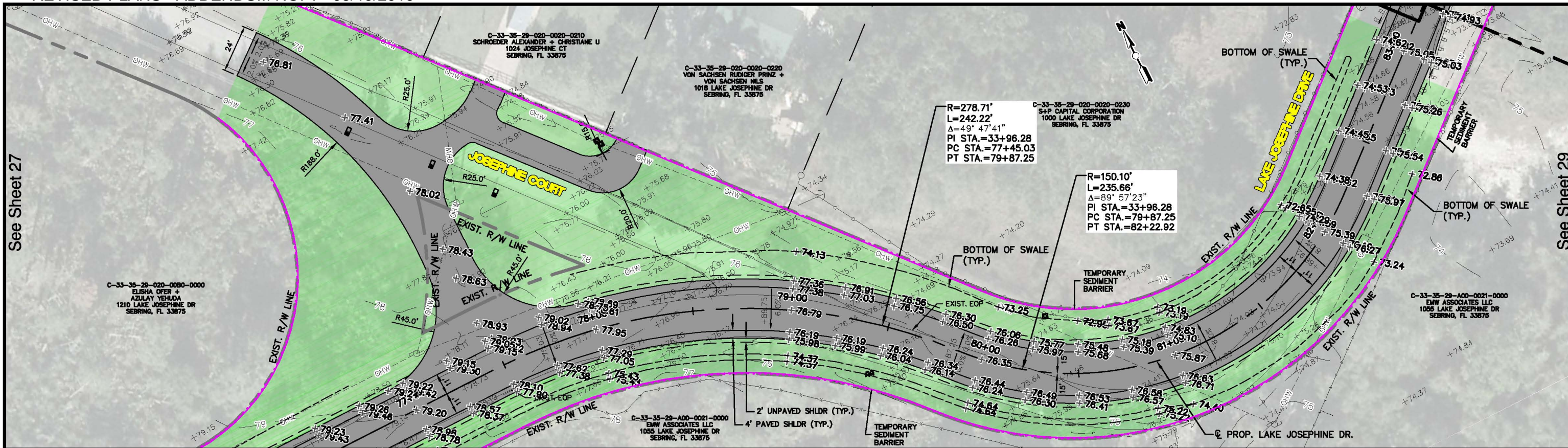
REVISIONS		STATUS	DESIGNED BY: ELIUS F. NORTELUS, P.E.	DRAWN BY: DOUG NIETUBICZ	CHECKED BY: KEITH BAKER, E.I.	IN CHARGE: ELIUS F. NORTELUS, P.E.	DATE: 5/19/2016	APPROVED BY: ELIUS F. NORTELUS, P.E.	DATE:	FLORIDA REGISTRATION NO.: 70092	SCALE: HORIZ. 1"=40' VERT. 1"=8'	PROJECT NO. 13008	REV. 0
DATE	BY												

FOR BID

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

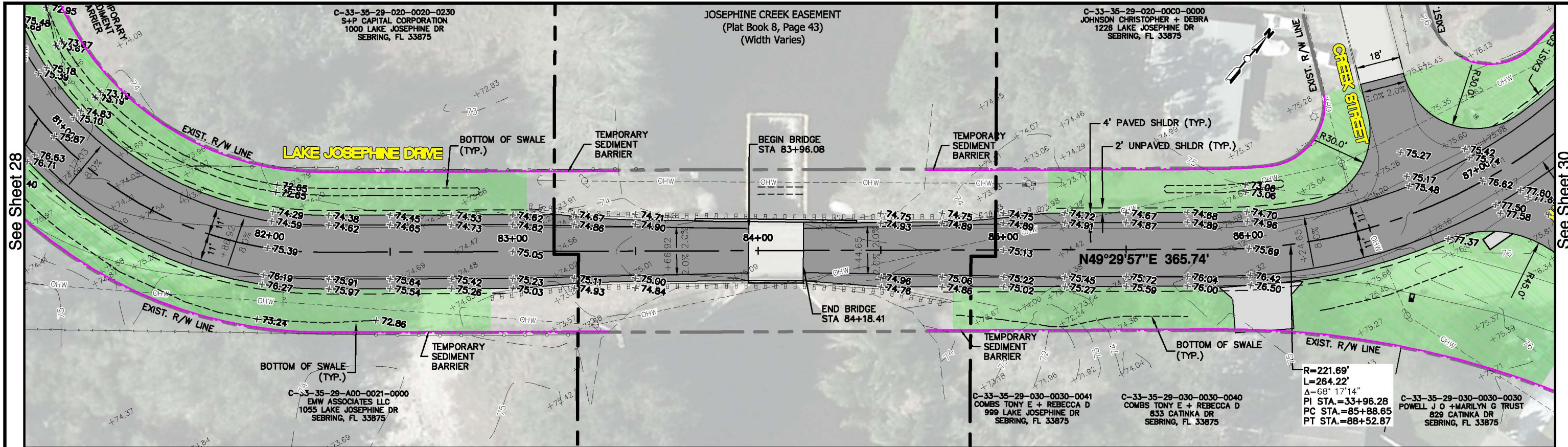
LAKE JOSEPHINE DRIVE IMPROVEMENTS
PLAN & PROFILE

SHEET 27 OF 67

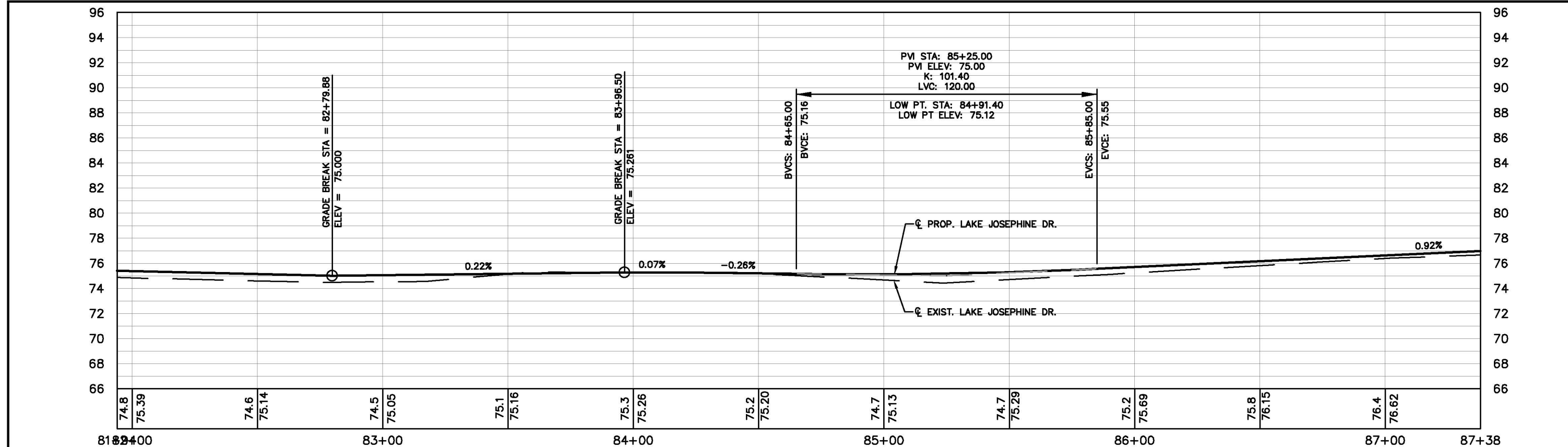


REVISIONS			STATUS		FOR BID	DESIGNED BY: ELIUS F. NORTELUS, P.E. DRAWN BY: DOUG NIETUBICZ CHECKED BY: KEITH BAKER, E.I. IN CHARGE: ELIUS F. NORTELUS, P.E. DATE: 5/19/2016	HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870		LAKE JOSEPHINE DRIVE IMPROVEMENTS PLAN & PROFILE	SCALE: HORIZ. 1"=40' VERT. 1"=8' PROJECT NO. 13008 REV. 0		
DATE	BY	DESCRIPTION									APPROVED BY: ELIUS F. NORTELUS, P.E.	DATE:
SHEET 28 OF 67												

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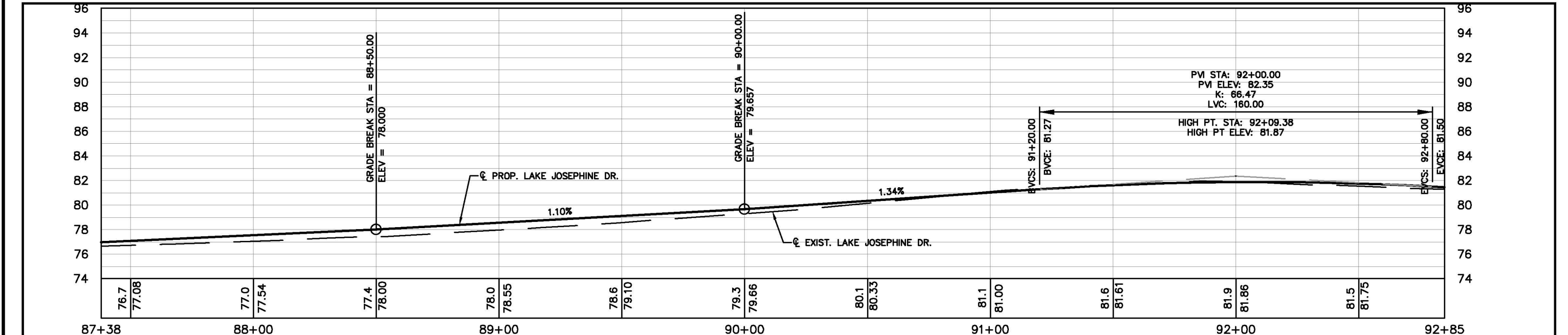
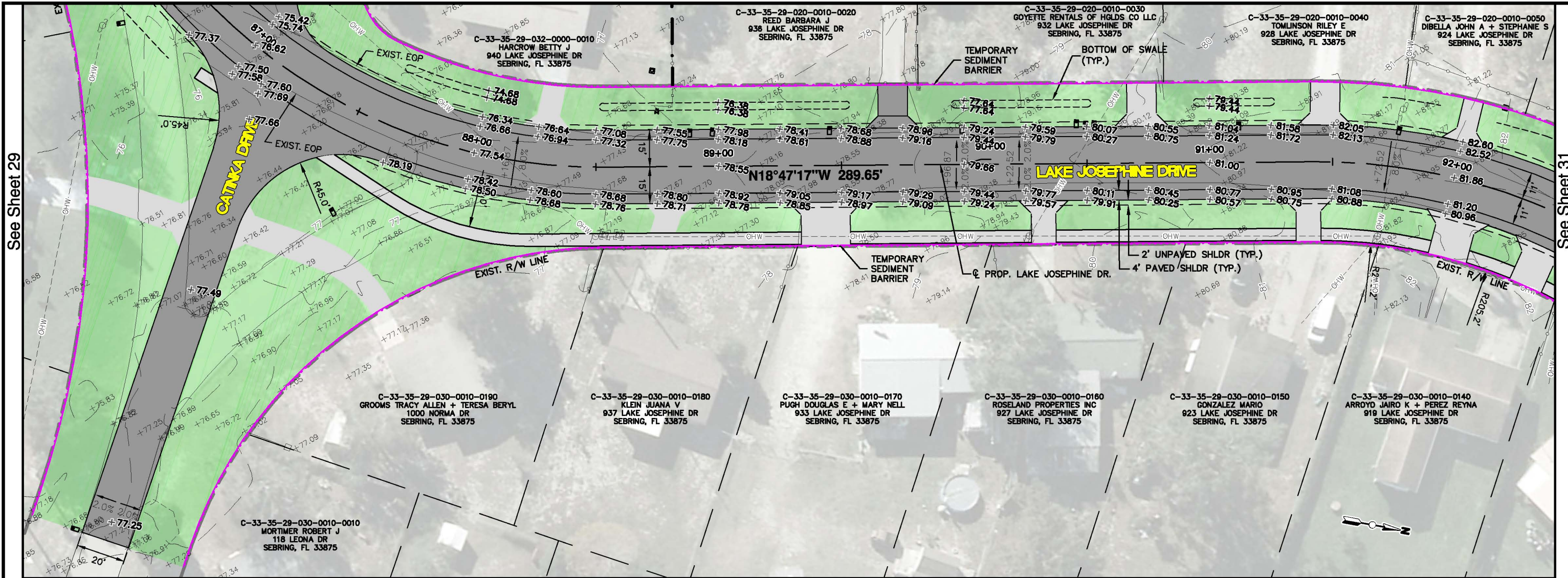


PROP. ASPHALT PAVEMENT
 PROP. CONCRETE DRIVEWAY
 PROP. SOD



REVISIONS			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: 5/19/2016	HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870		LAKE JOSEPHINE DRIVE IMPROVEMENTS PLAN & PROFILE	SCALE:	
DATE	BY	DESCRIPTION	HORIZ. 1"=40'								
			VERT. 1"=8'								
			PROJECT NO.	REV.							
			13008		0	APPROVED BY: ELIUS F. NORTELUS, P.E.	DATE:	FLORIDA REGISTRATION NO.: 70092		SHEET 29 OF 67	

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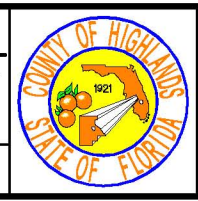
REVISIONS			STATUS
DATE	BY	DESCRIPTION	
			FOR BID

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

DESIGNED BY: ELIUS F. NORTELUS, P.E.
DRAWN BY: DOUG NIETUBICZ
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DATE: 5/19/2016

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FLORIDA REGISTRATION NO.: 70092

DATE:



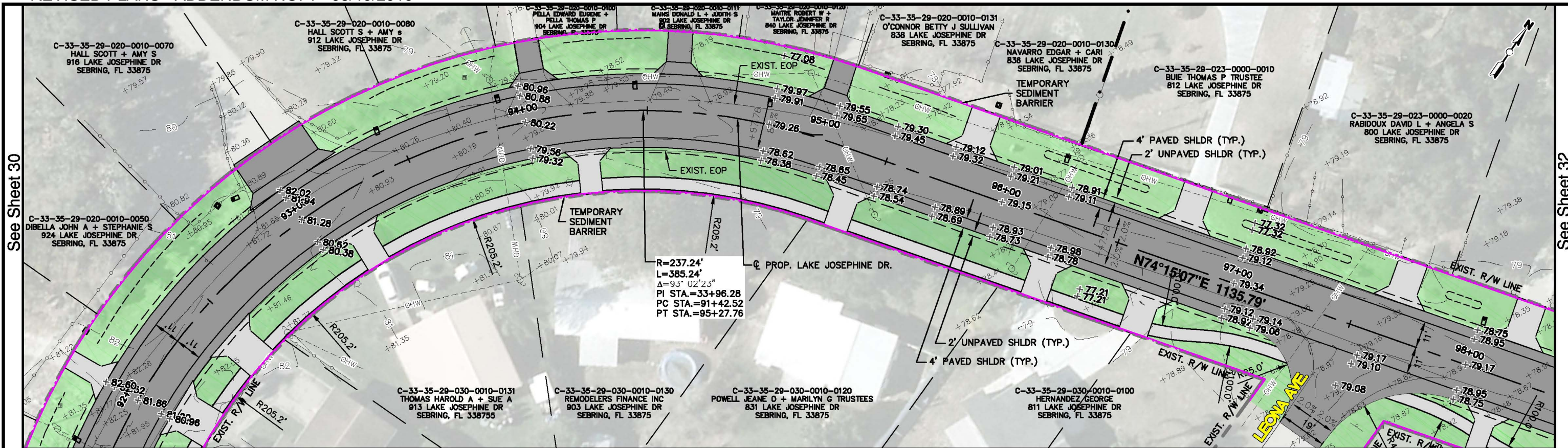
**LAKE JOSEPHINE DRIVE
IMPROVEMENTS
PLAN & PROFILE**

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

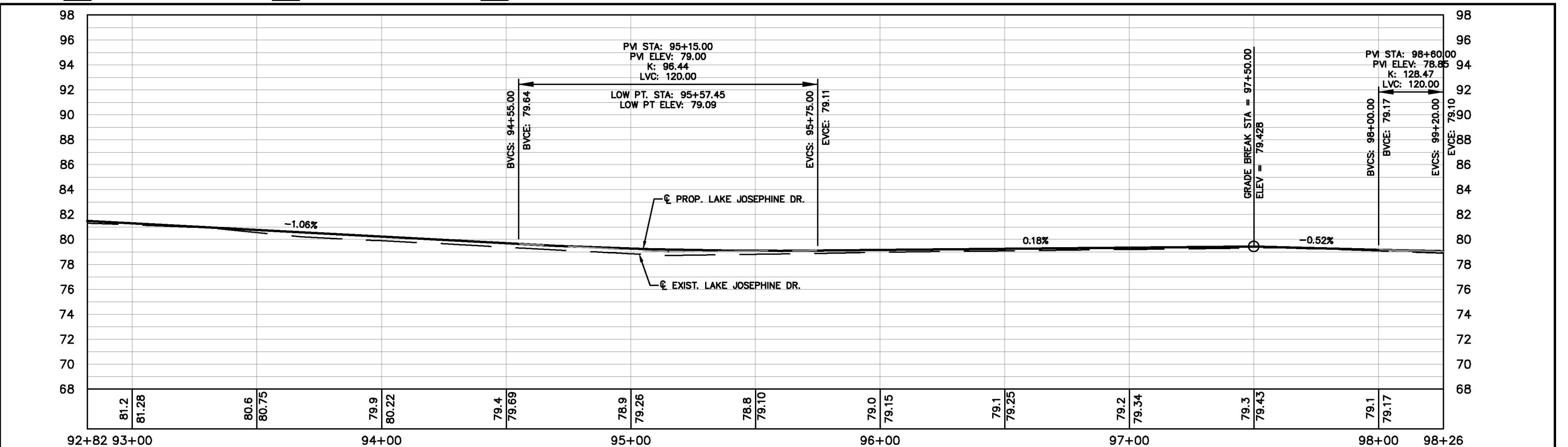
PROJECT NO. 13008 REV. 0

SHEET 30 OF 67

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PROP. ASPHALT PAVEMENT
 PROP. CONCRETE DRIVEWAY
 PROP. SOD

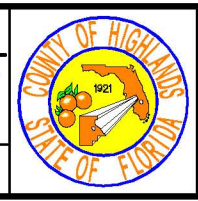


REVISIONS			STATUS
DATE	BY	DESCRIPTION	
			FOR BID

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

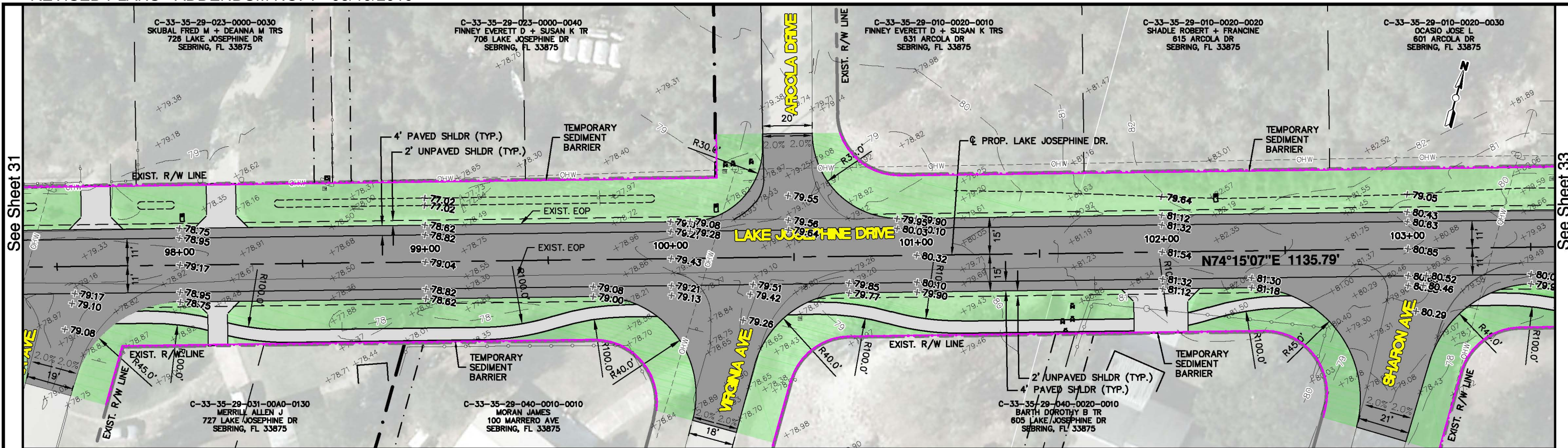
DESIGNED BY: ELIUS F. NORTELLUS, P.E.
 DRAWN BY: DOUG NIETUBICZ
 CHECKED BY: KEITH BAKER, E.I.
 IN CHARGE: ELIUS F. NORTELLUS, P.E.
 DATE: 5/19/2016

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

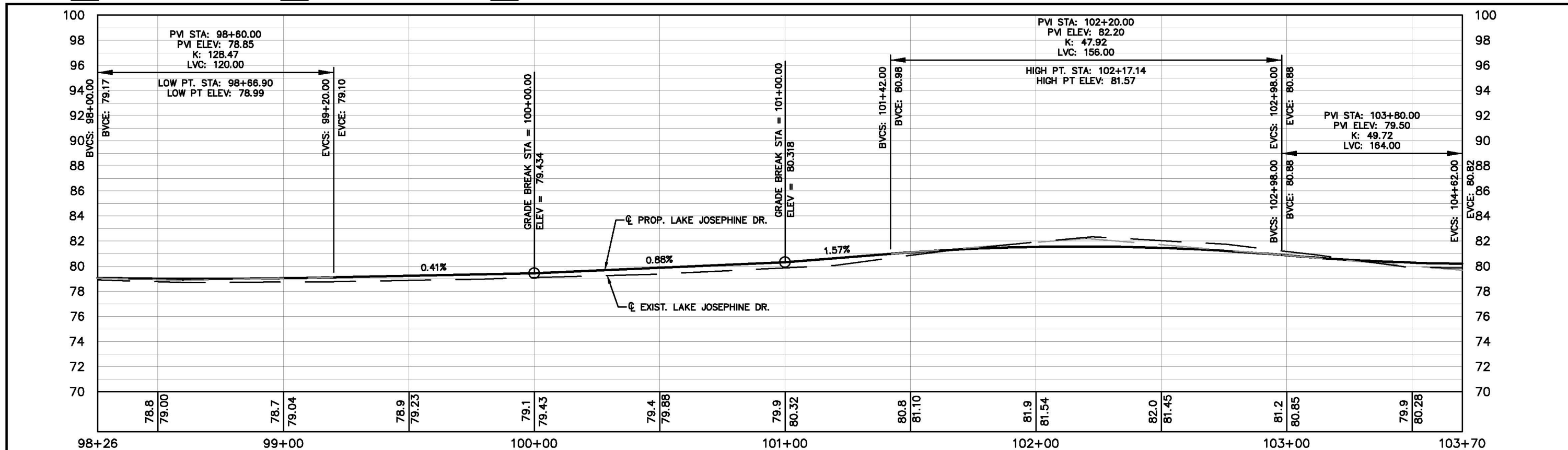


LAKE JOSEPHINE DRIVE
IMPROVEMENTS
PLAN & PROFILE

SCALE:
 HORIZ. 1"=40'
 VERT. 1"=8'
 PROJECT NO. 13008
 REV. 0
 SHEET 31 OF 67



PROP. ASPHALT PAVEMENT
 PROP. CONCRETE DRIVEWAY
 PROP. SOD

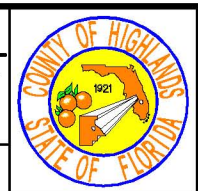


REVISIONS			STATUS	
DATE	BY	DESCRIPTION		
			FOR BID	

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

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 DATE: 5/19/2016

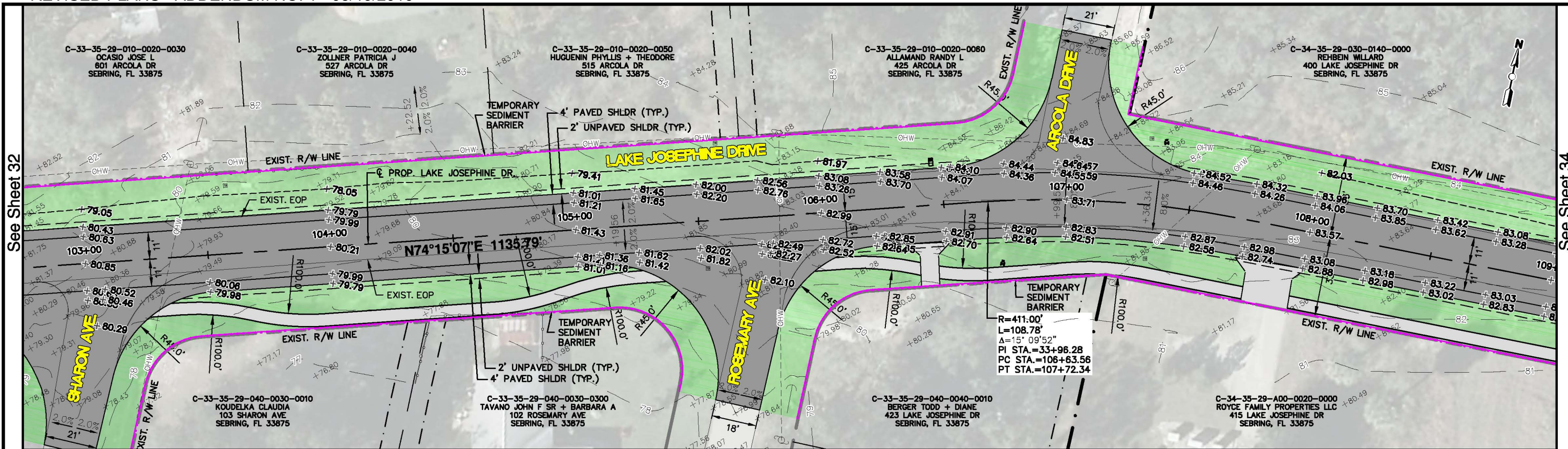
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 FLORIDA REGISTRATION NO.: 70092



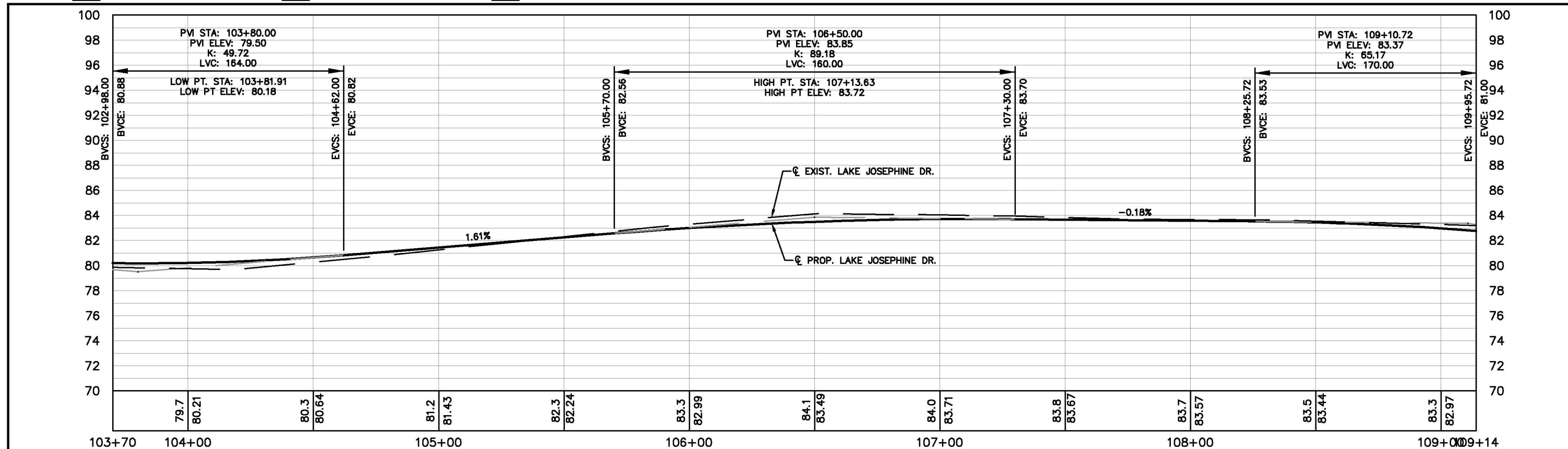
LAKE JOSEPHINE DRIVE
IMPROVEMENTS
PLAN & PROFILE

SCALE:
 HORIZ. 1"=40'
 VERT. 1"=8'
 PROJECT NO. 13008
 REV. 0
 SHEET 32 OF 67

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PROP. ASPHALT PAVEMENT
 PROP. CONCRETE DRIVEWAY
 PROP. SOD

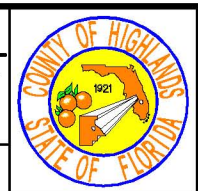


REVISIONS			STATUS
DATE	BY	DESCRIPTION	
			FOR BID

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

DESIGNED BY: ELIUS F. NORTELUS, P.E.
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 DATE: 5/19/2016

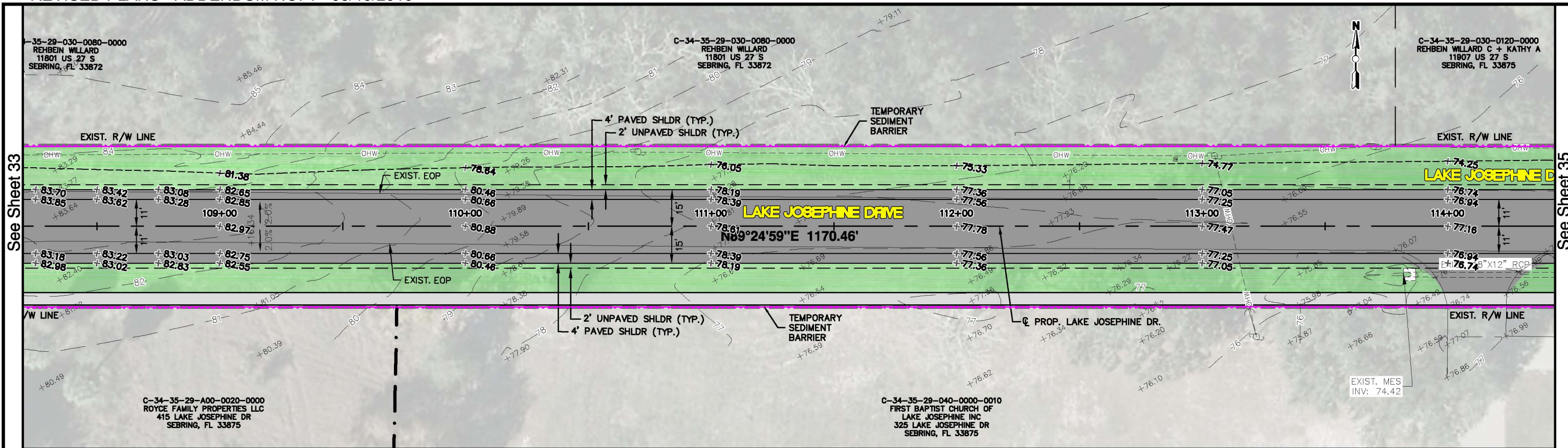
APPROVED BY: ELIUS F. NORTELUS, P.E.
 FLORIDA REGISTRATION NO.: 70092



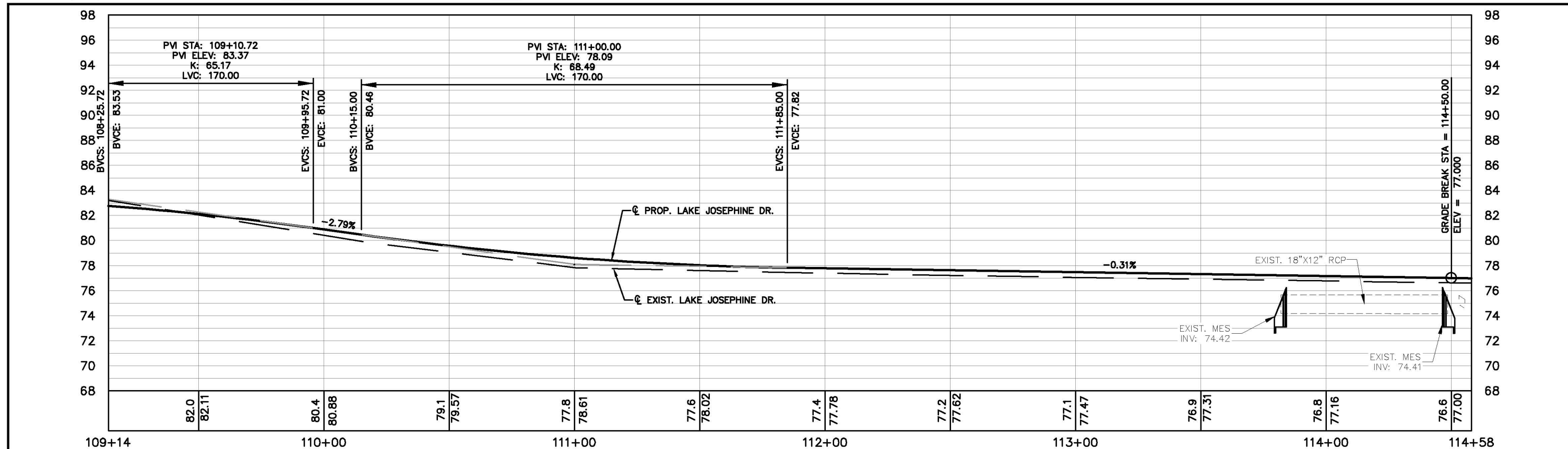
LAKE JOSEPHINE DRIVE
IMPROVEMENTS
PLAN & PROFILE

SCALE:
 HORIZ. 1"=40'
 VERT. 1"=8'
 PROJECT NO. 13008
 REV. 0
 SHEET 33 OF 67

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PROP. ASPHALT PAVEMENT
 PROP. CONCRETE DRIVEWAY
 PROP. SOD



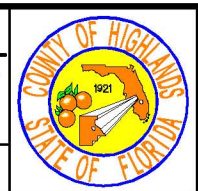
REVISIONS		
DATE	BY	DESCRIPTION

STATUS
FOR BID

DESIGNED BY: ELIUS F. NORTELUS, P.E.
 DRAWN BY: DOUG NIETUBICZ
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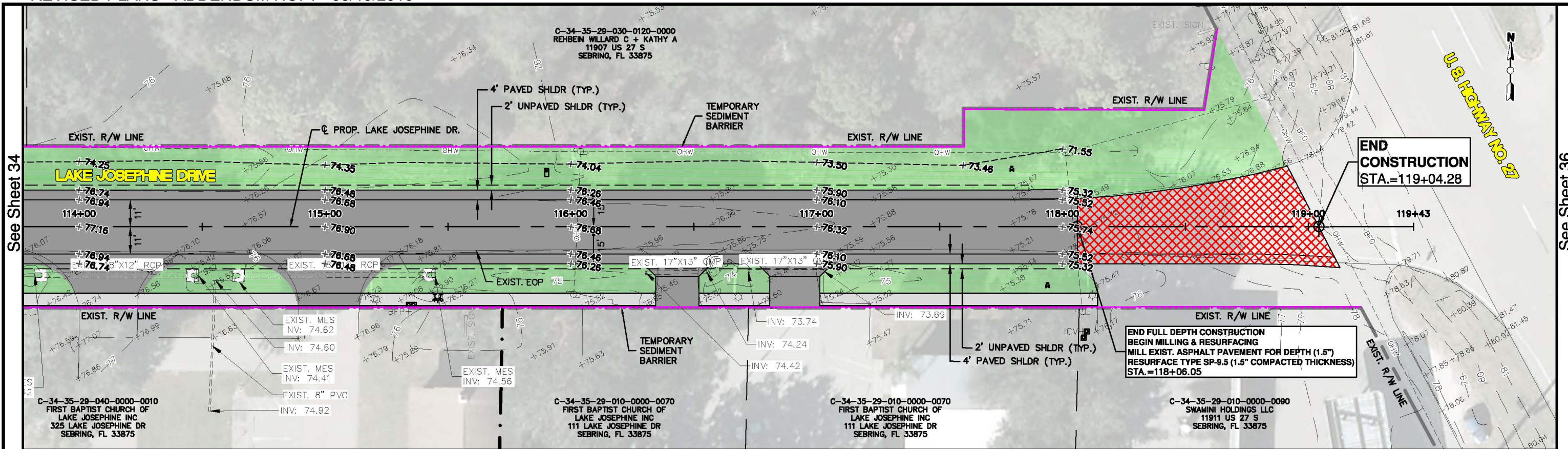
HIGHLANDS COUNTY
ENGINEERING DEPARTMENT
 505 S. COMMERCE AVENUE
 SEBRING, FLORIDA 33870

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

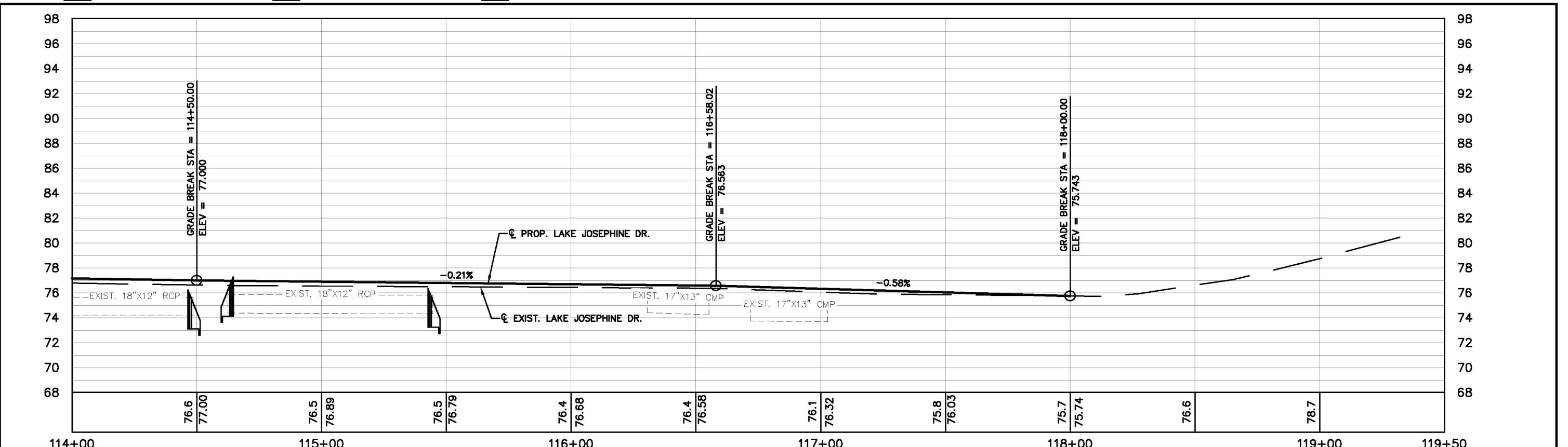


LAKE JOSEPHINE DRIVE
IMPROVEMENTS
PLAN & PROFILE

SCALE: HORIZ. 1"=40' VERT. 1"=8'	
PROJECT NO. 13008	REV. 0
SHEET 34 OF 67	



PROP. ASPHALT PAVEMENT
 PROP. CONCRETE DRIVEWAY
 PROP. SOD

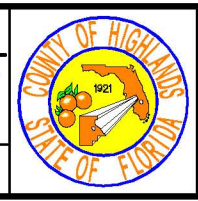


REVISIONS			STATUS	
DATE	BY	DESCRIPTION		
			FOR BID	

HIGHLANDS COUNTY
ENGINEERING DEPARTMENT
 505 S. COMMERCE AVENUE
 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: 5/19/2016

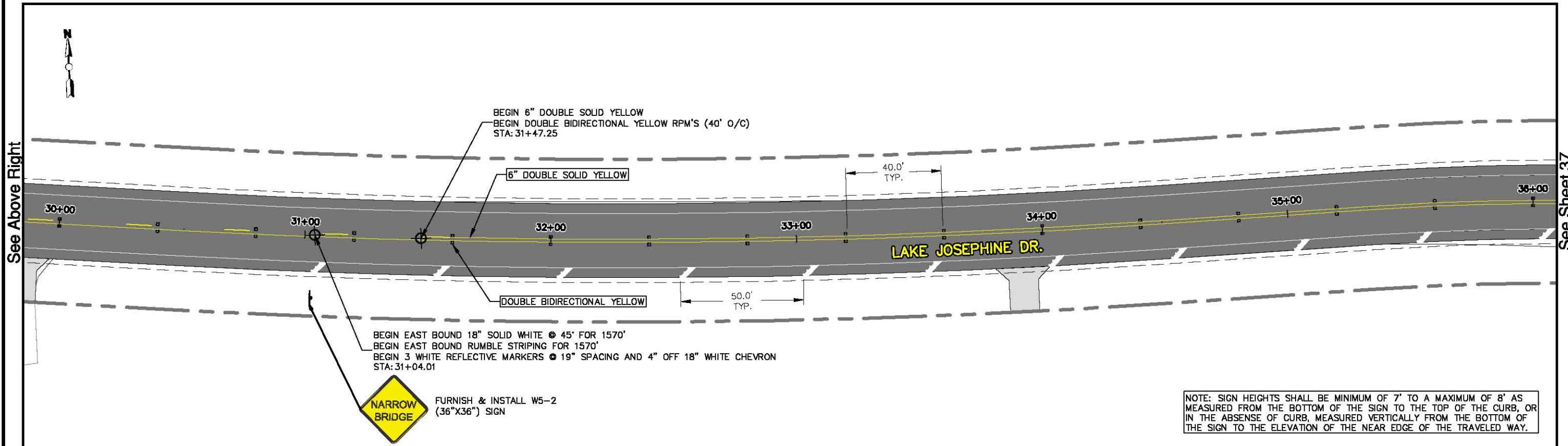
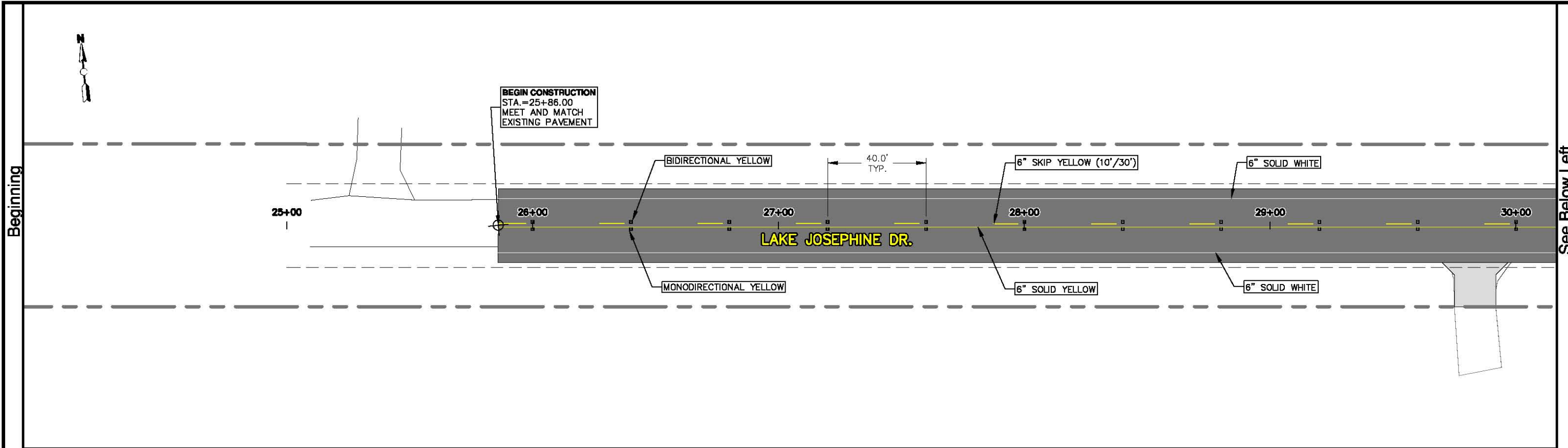
APPROVED BY: ELIUS F. NORTELUS, P.E.
 FLORIDA REGISTRATION NO.: 70092



LAKE JOSEPHINE DRIVE
IMPROVEMENTS
PLAN & PROFILE

SCALE:
 HORIZ. 1"=40'
 VERT. 1"=8'
 PROJECT NO. 13008
 REV. 0
 SHEET 35 OF 67

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 - 114+58.01, Nietubcz, Douglas Acad 1-7 Block.ctb



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	
		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:
5/19/2016

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

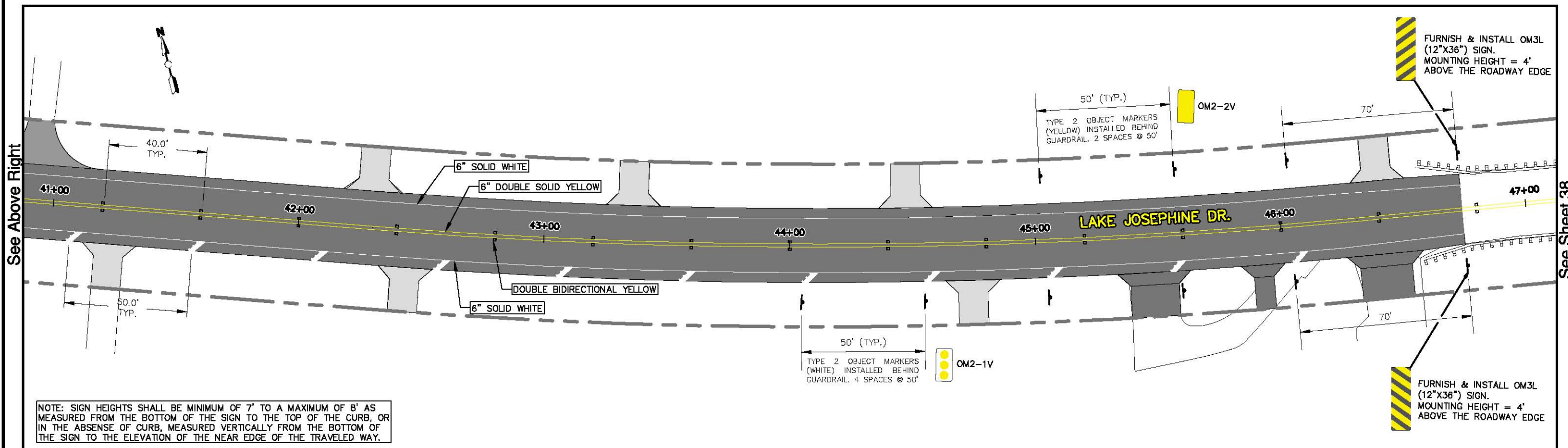
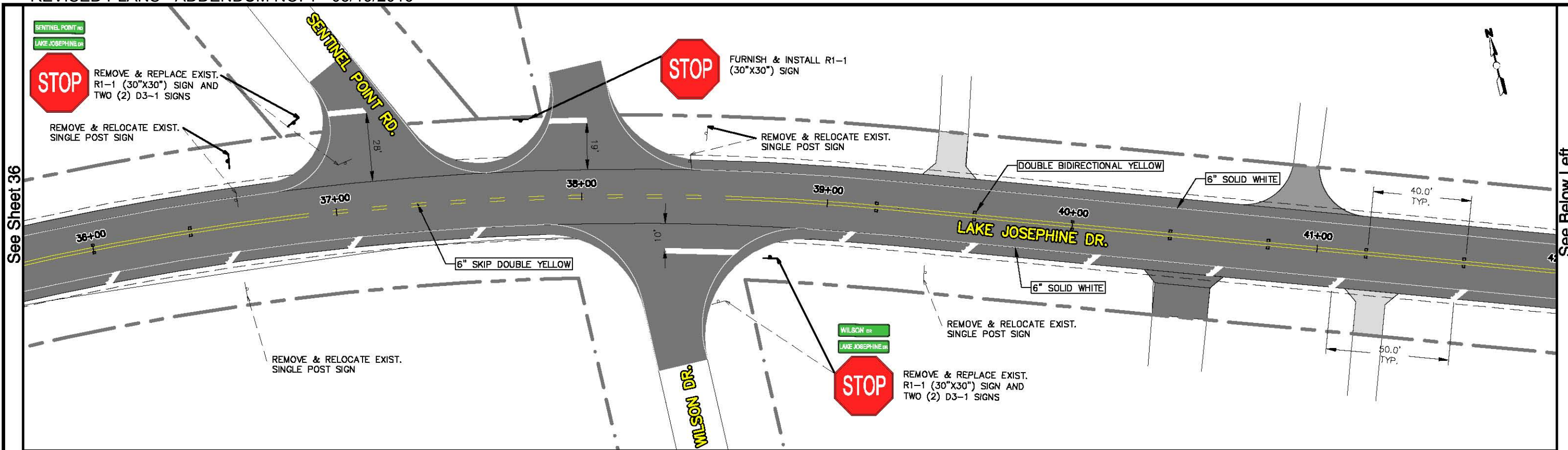
APPROVED BY: ELIUS F. NORTELUS, P.E.
FLORIDA REGISTRATION NO.: 70092

DATE: _____



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

SCALE: HORIZ. 1"=40' VERT. N/A	
PROJECT NO. 13008	REV. 0
SHEET 36 OF 67	



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.

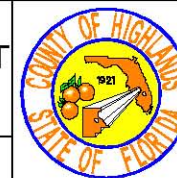
REVISIONS		STATUS
DATE	DESCRIPTION	
		FOR BID

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DESIGNED BY:
ELIUS F. NORTELUS, P.E.
DRAWN BY:
KETH BAKER, E.I.
CHECKED BY:
ELIUS F. NORTELUS, P.E.
IN CHARGE:
ELIUS F. NORTELUS, P.E.
DATE:
5/19/2016

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

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

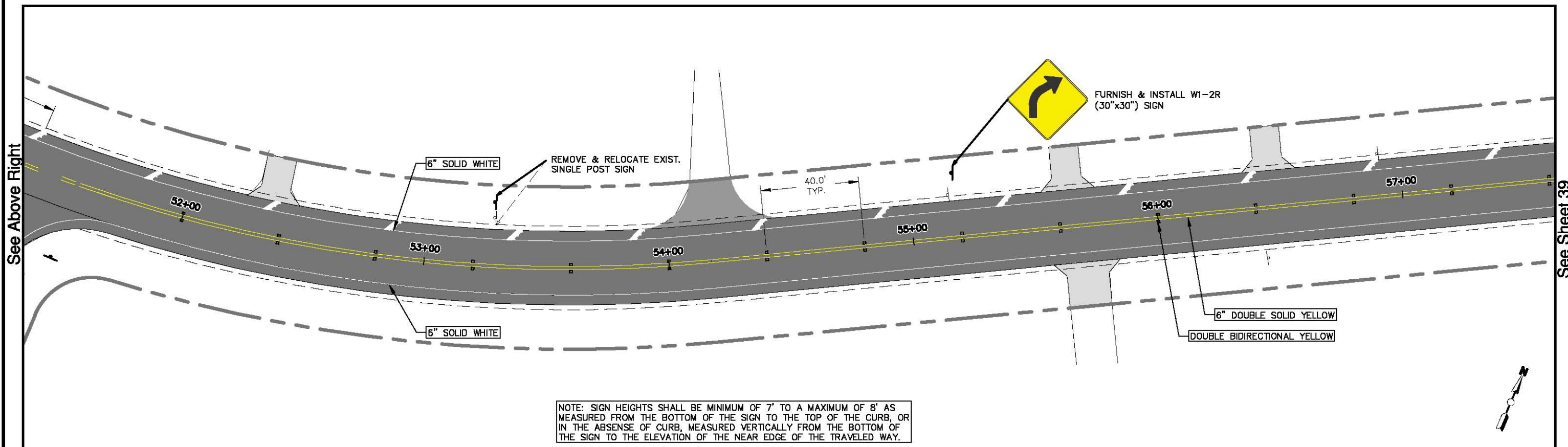
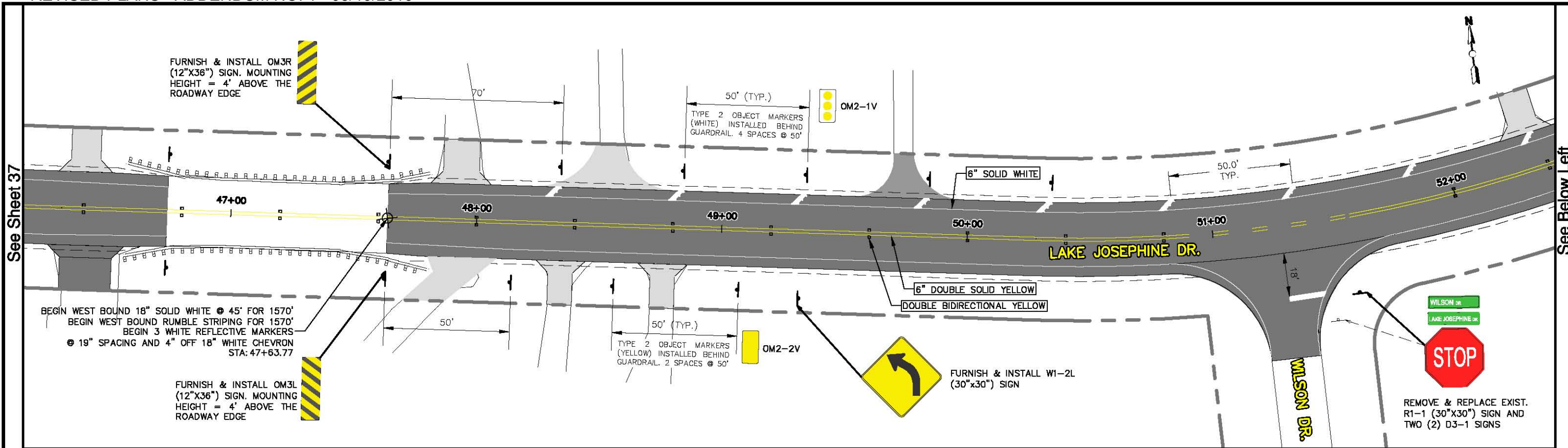




**LAKE JOSEPHINE DRIVE
IMPROVEMENTS
SIGN & PAVEMENT MARKING PLAN**

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

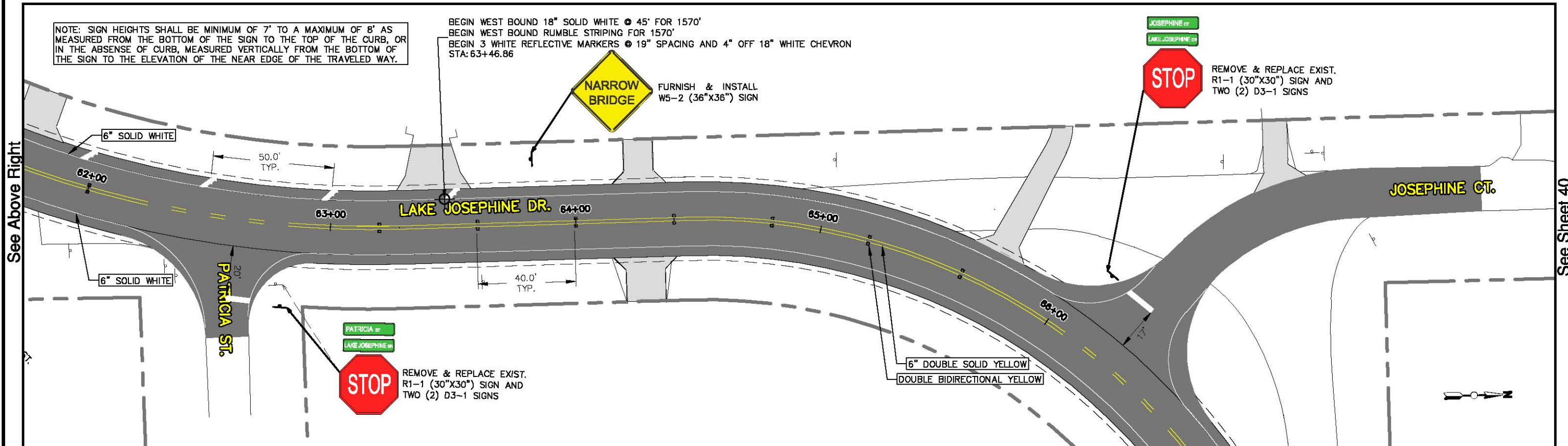
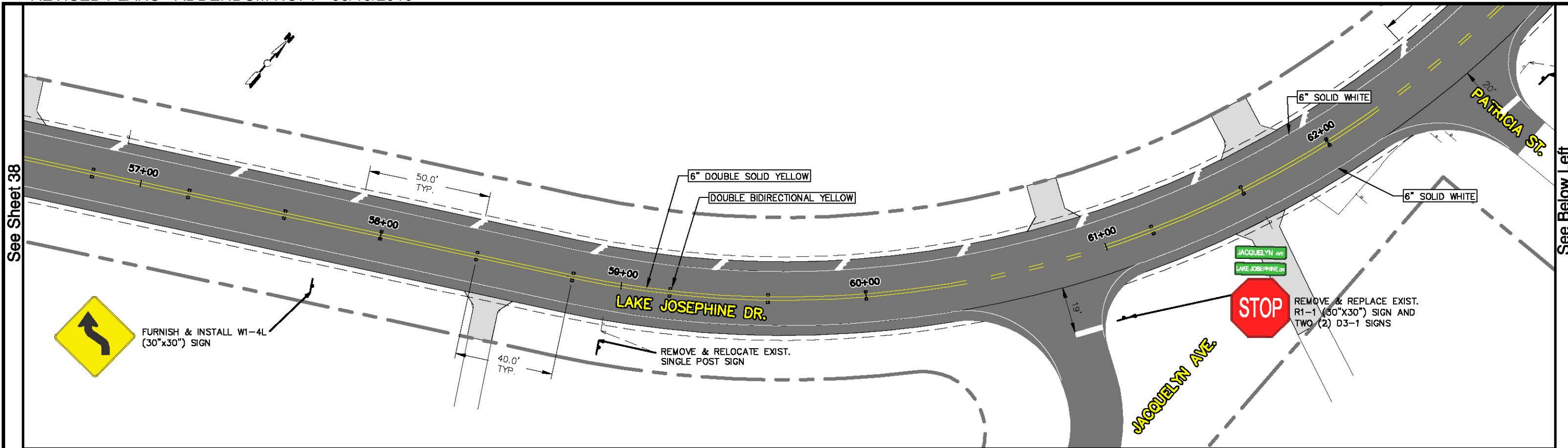
PROJECT NO. 13008 REV. 0

SHEET 37 OF 67

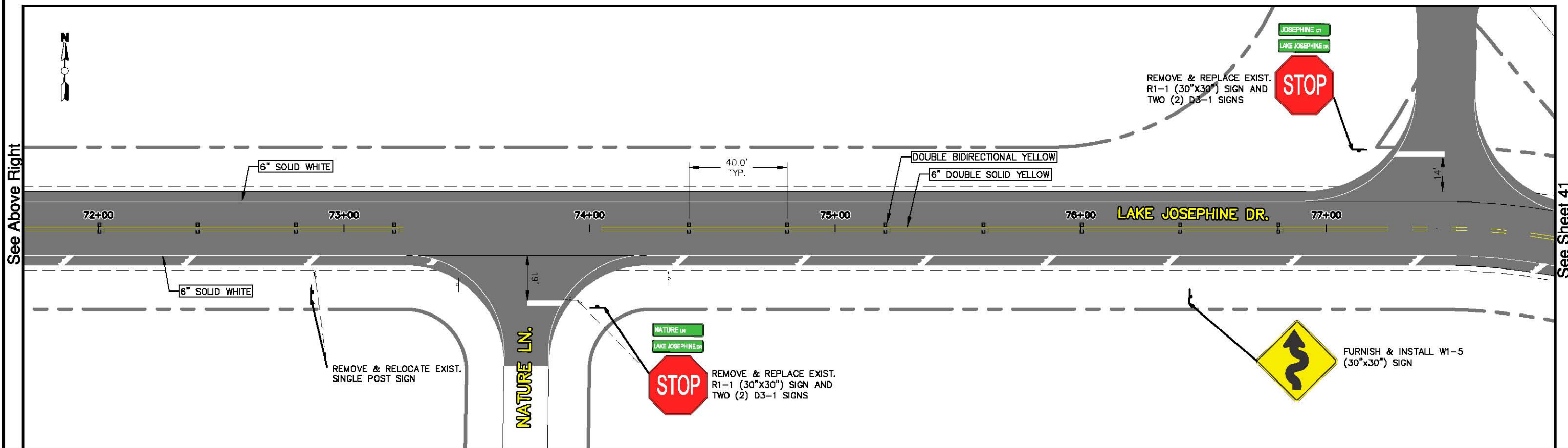
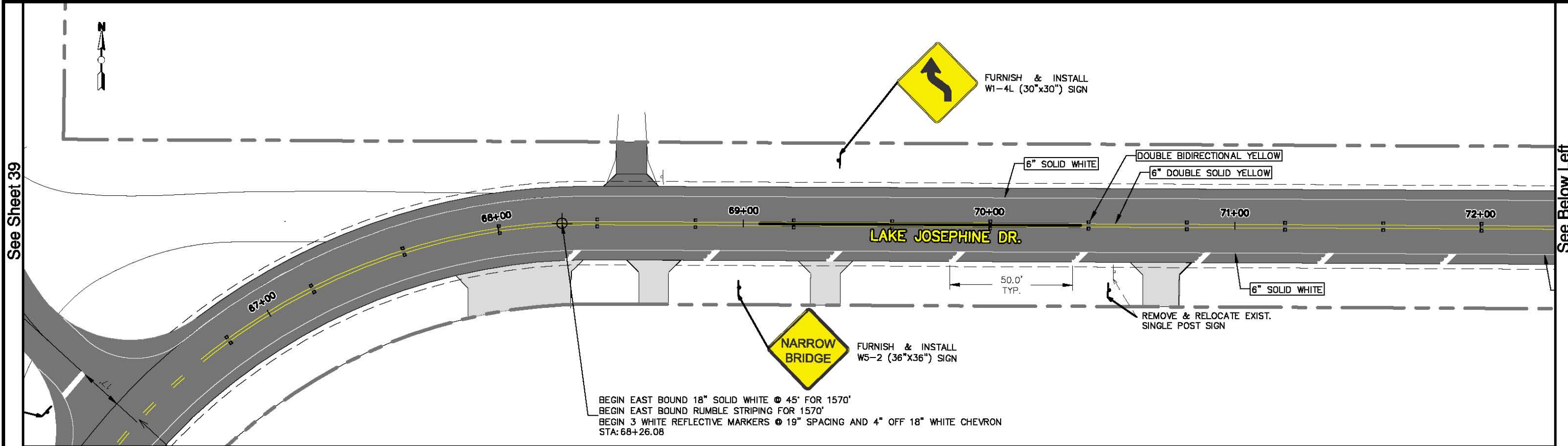



REVISIONS			STATUS	DESIGNED BY: ELIUS F. NORTELUS, P.E.	HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870		LAKE JOSEPHINE DRIVE IMPROVEMENTS SIGN & PAVEMENT MARKING PLAN		SCALE: HORIZ. 1"=40' VERT. N/A
DATE	BY	DESCRIPTION					PROJECT NO. 13008	REV. 0	
			FOR BID	CHECKED BY: KEITH BAKER, E.I.	APPROVED BY: ELIUS F. NORTELUS, P.E.				SHEET 38 OF 67
				IN CHARGE: ELIUS F. NORTELUS, P.E.	DATE: 5/19/2016		DATE:		

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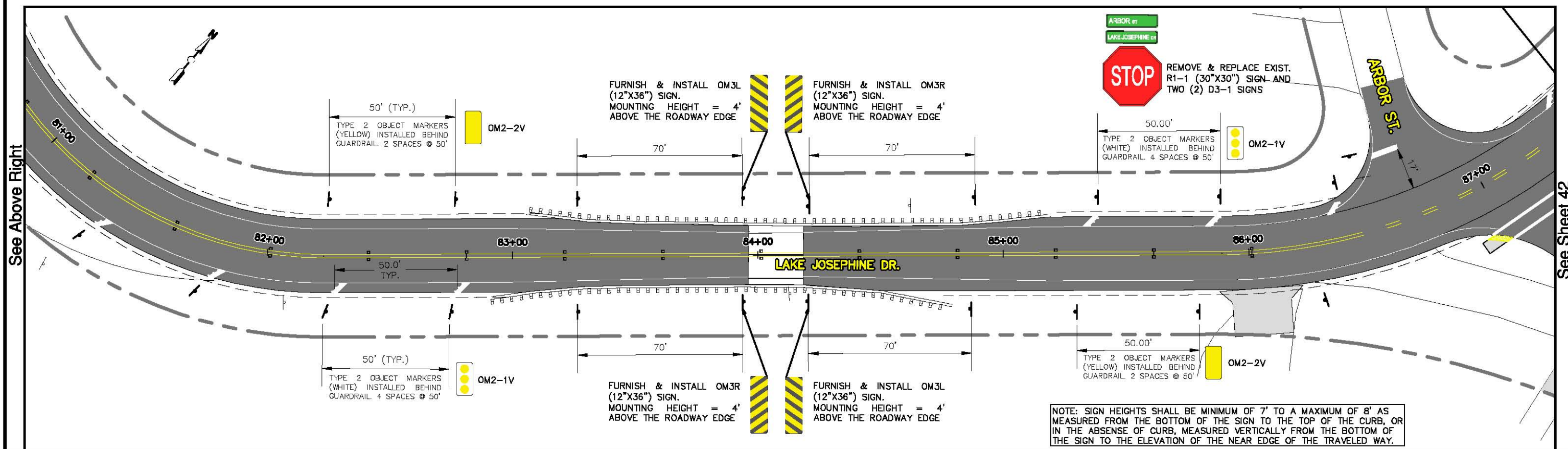
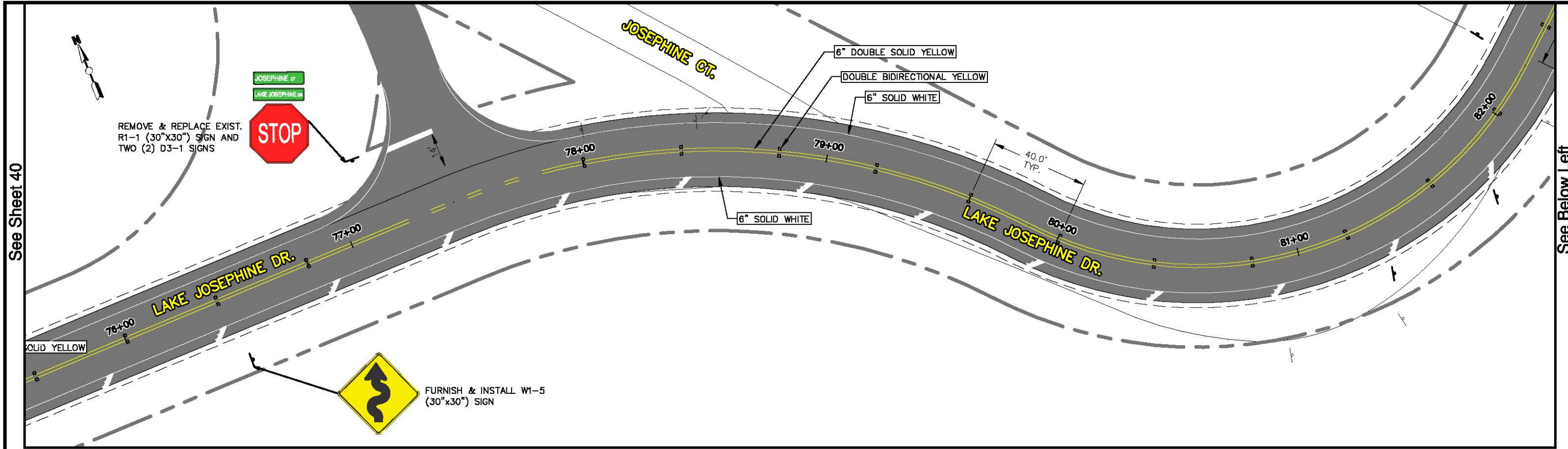


REVISIONS			STATUS	DESIGNED BY: ELIUS F. NORTELLUS, P.E.	HIGHLANDS COUNTY ENGINEERING DEPARTMENT	505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870	 COUNTY OF HIGHLANDS STATE OF FLORIDA	SCALE:	
DATE	BY	DESCRIPTION	FOR BID					DATE:	HORIZ. 1"=40'
APPROVED BY: ELIUS F. NORTELLUS, P.E. FLORIDA REGISTRATION NO.: 70092								LAKE JOSEPHINE DRIVE IMPROVEMENTS SIGN & PAVEMENT MARKING PLAN	
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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:	
DATE	BY	DESCRIPTION						HORIZ. 1"=40'	VERT. N/A
			FOR BID	DRAWN BY: KETH BAKER, E.I.	APPROVED BY: ELIUS F. NORTELUS, P.E. FLORIDA REGISTRATION NO.: 70092	DATE: 5/19/2016	DATE:	PROJECT NO.	REV.
				CHECKED BY: KETH BAKER, E.I.				13008	0
				IN CHARGE: ELIUS F. NORTELUS, P.E.				SHEET 40 OF 67	

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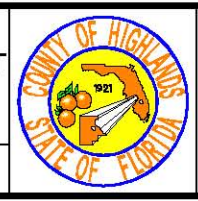
NOTE: SIGN HEIGHTS SHALL BE MINIMUM OF 7' TO A MAXIMUM OF 8' AS MEASURED FROM THE BOTTOM OF THE SIGN TO THE TOP OF THE CURB, OR IN THE ABSENCE OF CURB, MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE ELEVATION OF THE NEAR EDGE OF THE TRAVELED WAY.

REVISIONS		STATUS
DATE	DESCRIPTION	
		FOR BID

DESIGNED BY:
ELIUS F. NORTELLUS, P.E.
DRAWN BY:
KEITH BAKER, E.I.
CHECKED BY:
KEITH BAKER, E.I.
IN CHARGE:
ELIUS F. NORTELLUS, P.E.
DATE:
5/19/2016

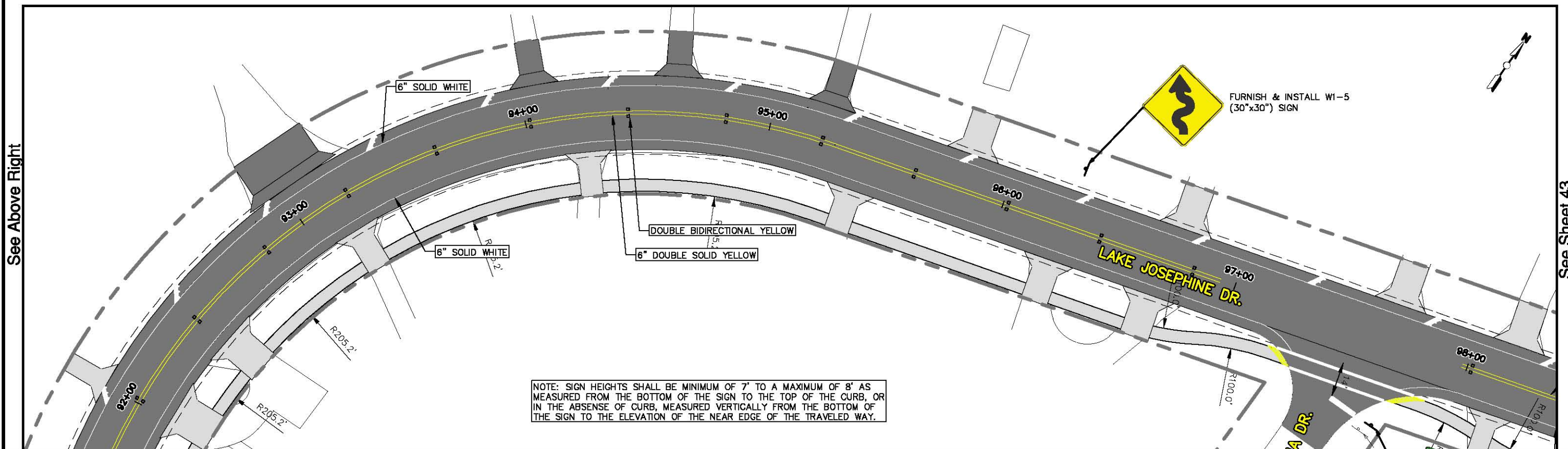
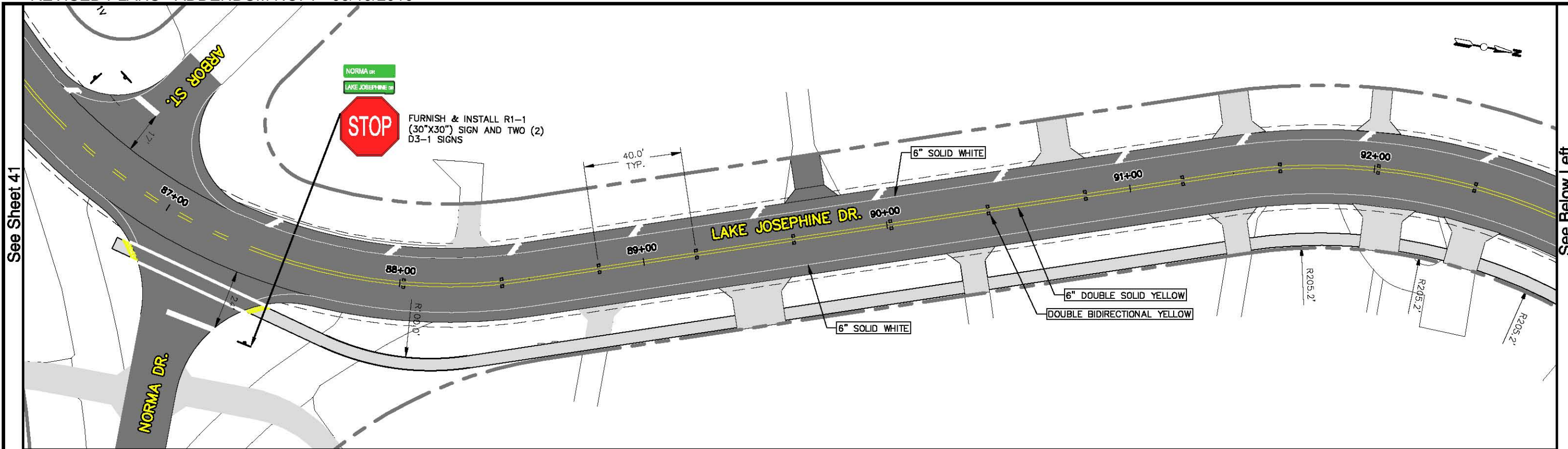
**HIGHLANDS COUNTY
ENGINEERING DEPARTMENT**
505 S. COMMERCE AVENUE
SEBRING, FLORIDA 33870

APPROVED BY: ELIUS F. NORTELLUS, 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 41 OF 67	



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	
		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:
5/19/2016

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

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

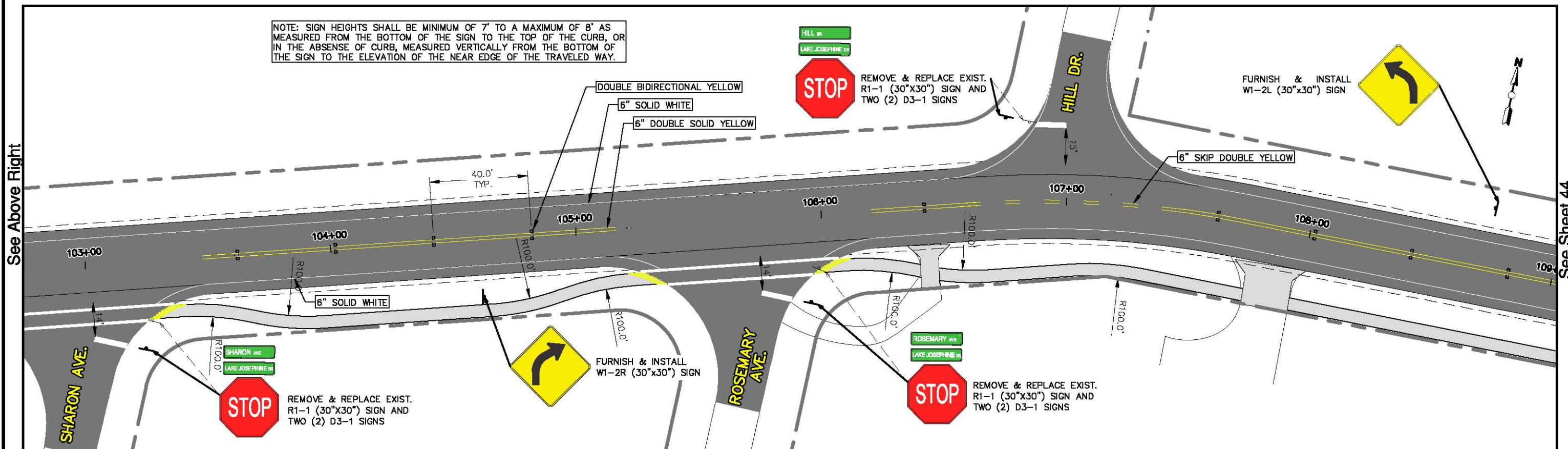
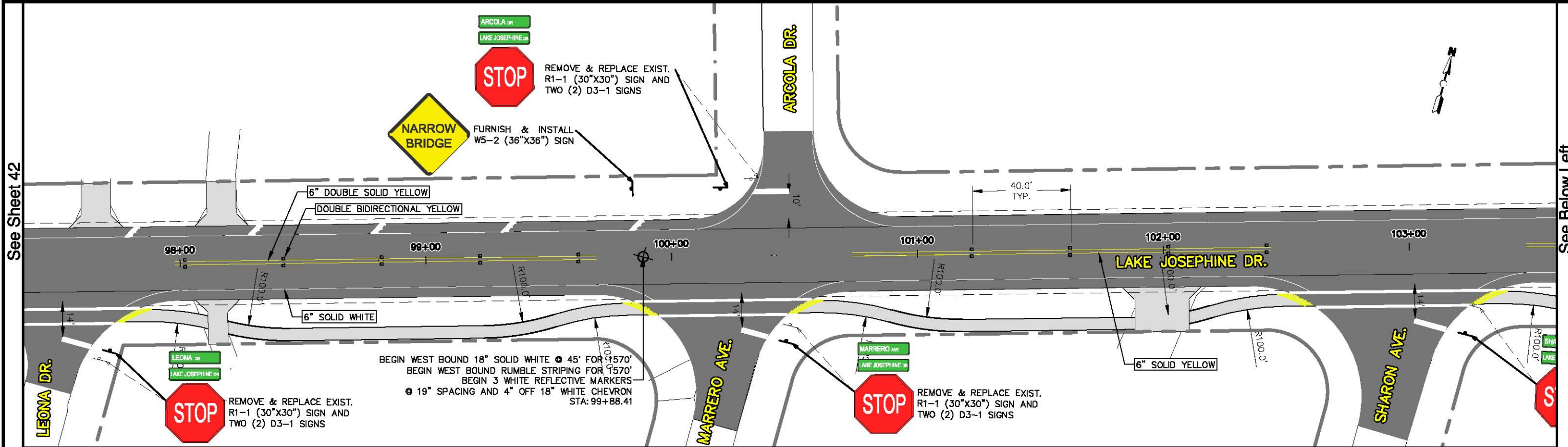




**LAKE JOSEPHINE DRIVE
IMPROVEMENTS
SIGN & PAVEMENT MARKING PLAN**

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

PROJECT NO. 13008 REV. 0

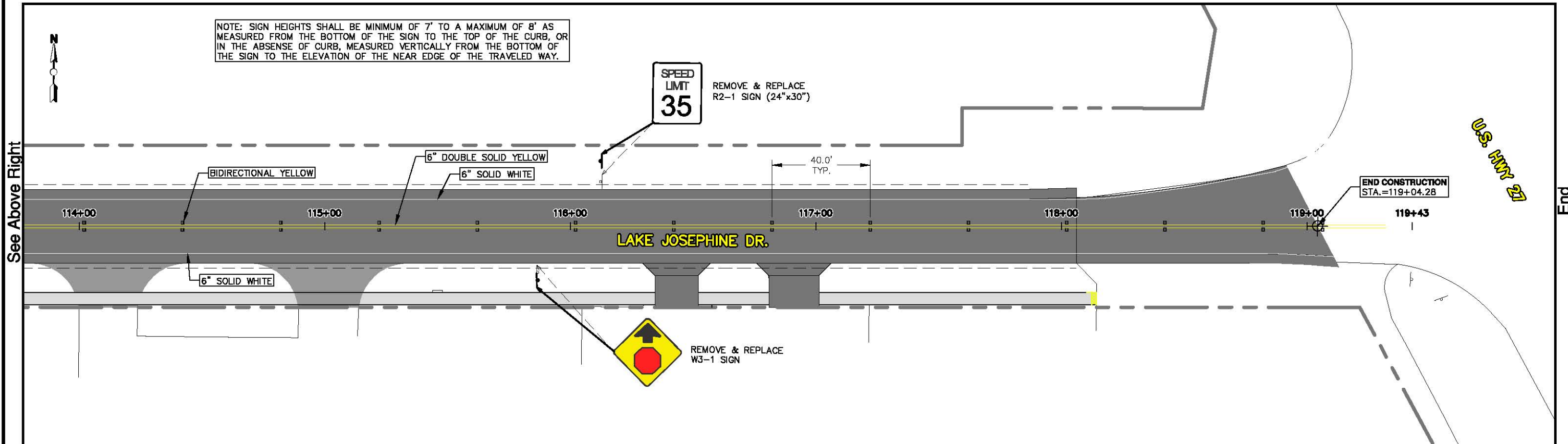
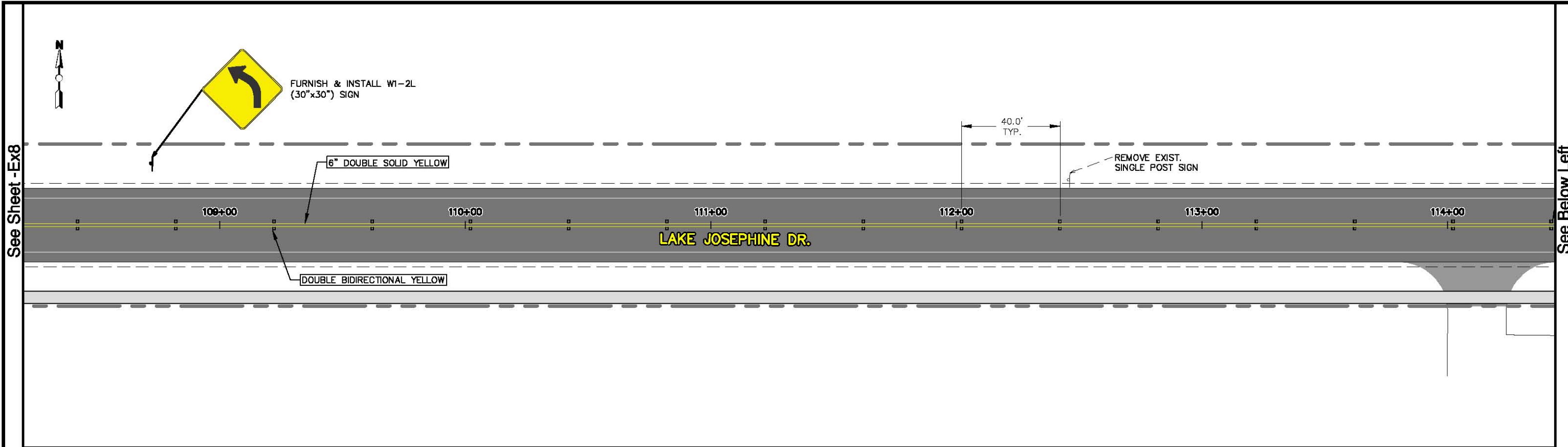
SHEET 42 OF 67




REVISIONS			STATUS		DESIGNED BY:			SCALE:	
DATE	BY	DESCRIPTION	FOR BID		ELIUS F. NORTELUS, P.E.			HORIZ. 1"=40'	VERT. N/A
					DRAWN BY: KETH BAKER, E.I.			PROJECT NO. 13008	
					CHECKED BY: KETH BAKER, E.I.			REV. 0	
					IN CHARGE: ELIUS F. NORTELUS, P.E.			SHEET 43 OF 67	
					DATE: 5/19/2016			APPROVED BY: ELIUS F. NORTELUS, P.E.	
					DATE: 5/19/2016			FLORIDA REGISTRATION NO.: 70092	

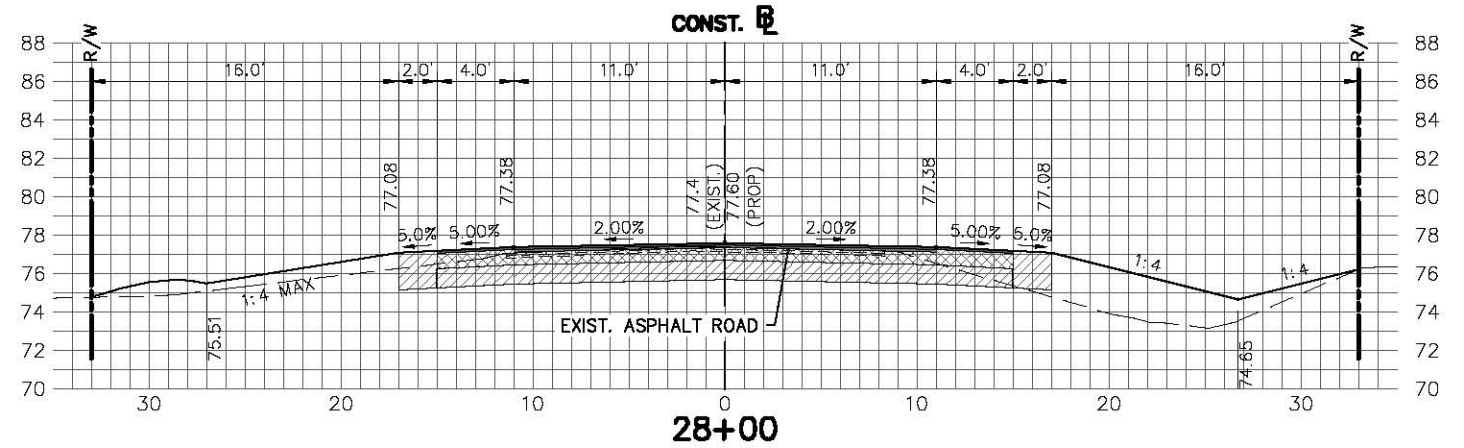
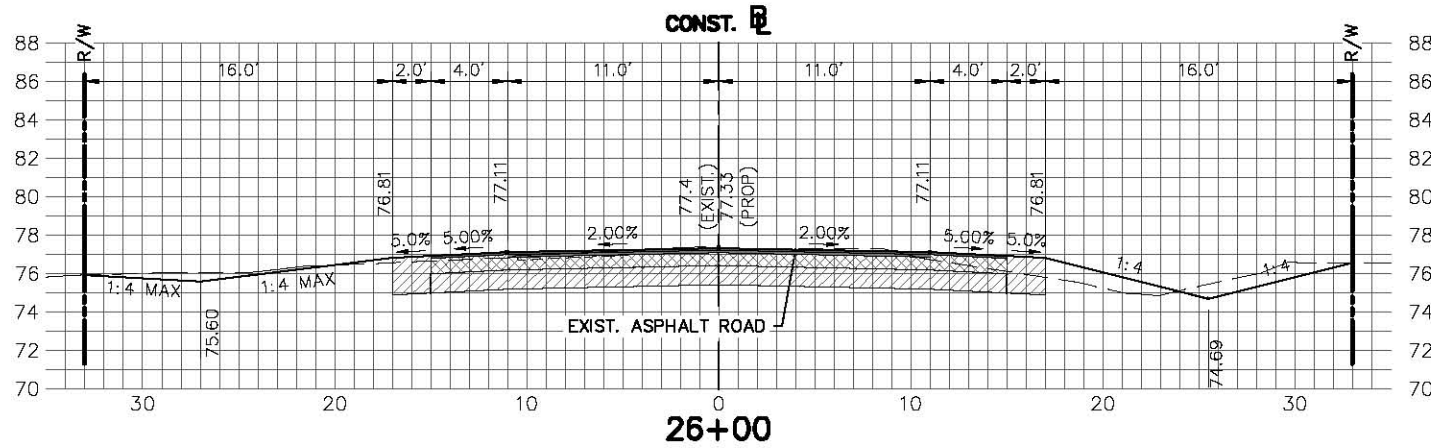
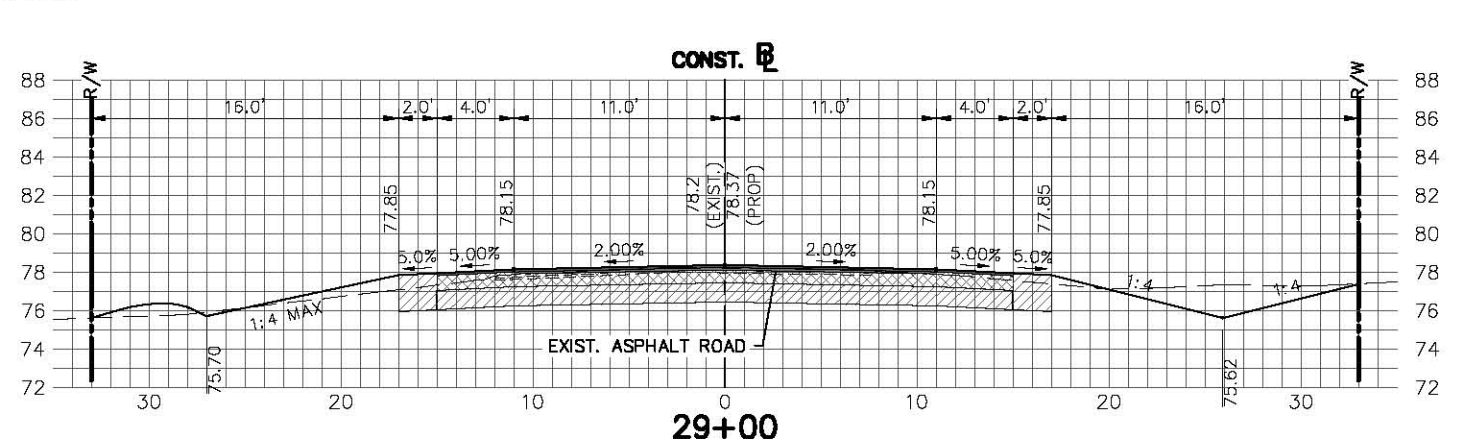
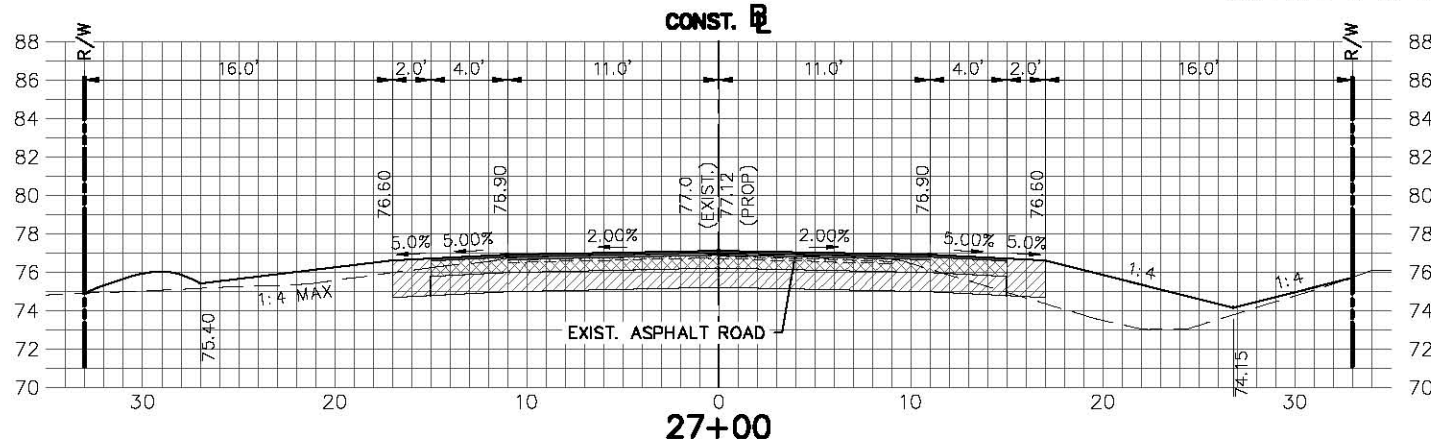
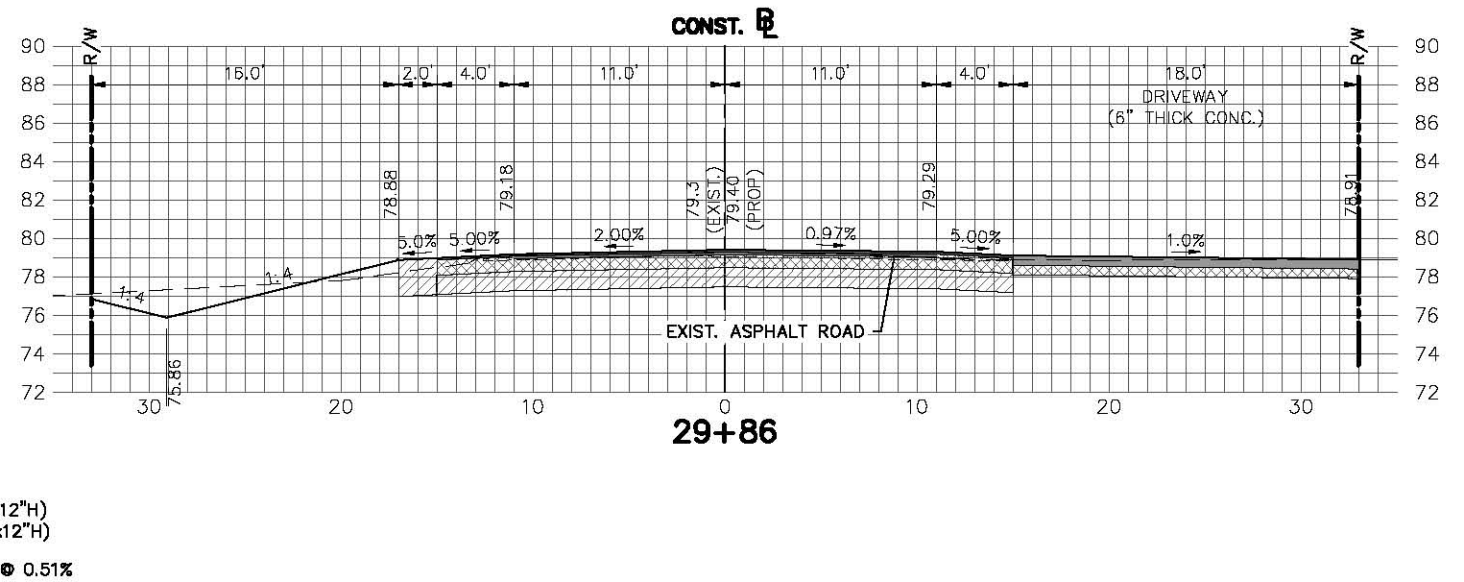
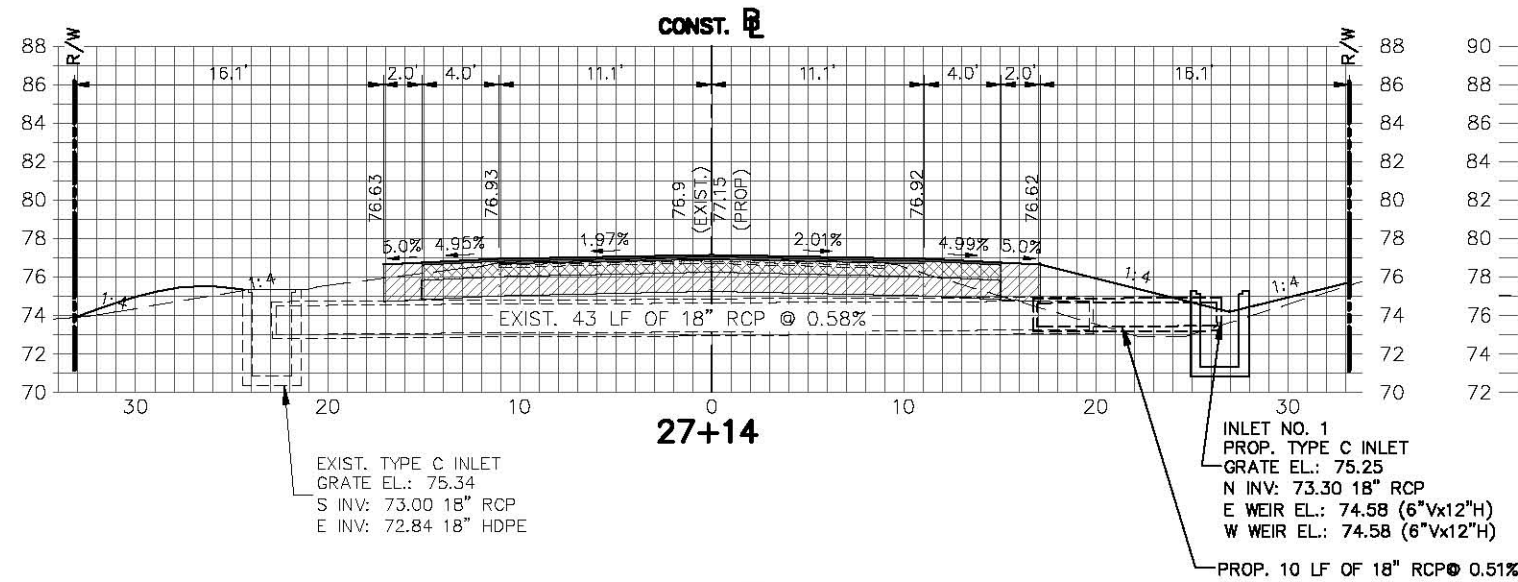
HIGHLANDS COUNTY ENGINEERING DEPARTMENT
505 S. COMMERCE AVENUE
SEBRING, FLORIDA 33870


LAKE JOSEPHINE DRIVE IMPROVEMENTS
SIGN & PAVEMENT MARKING PLAN

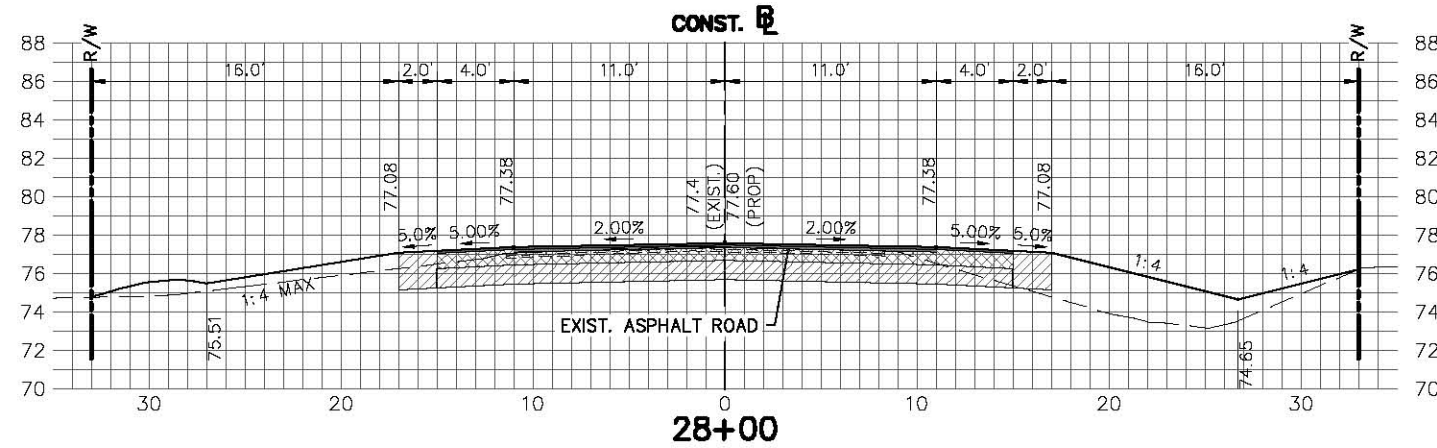
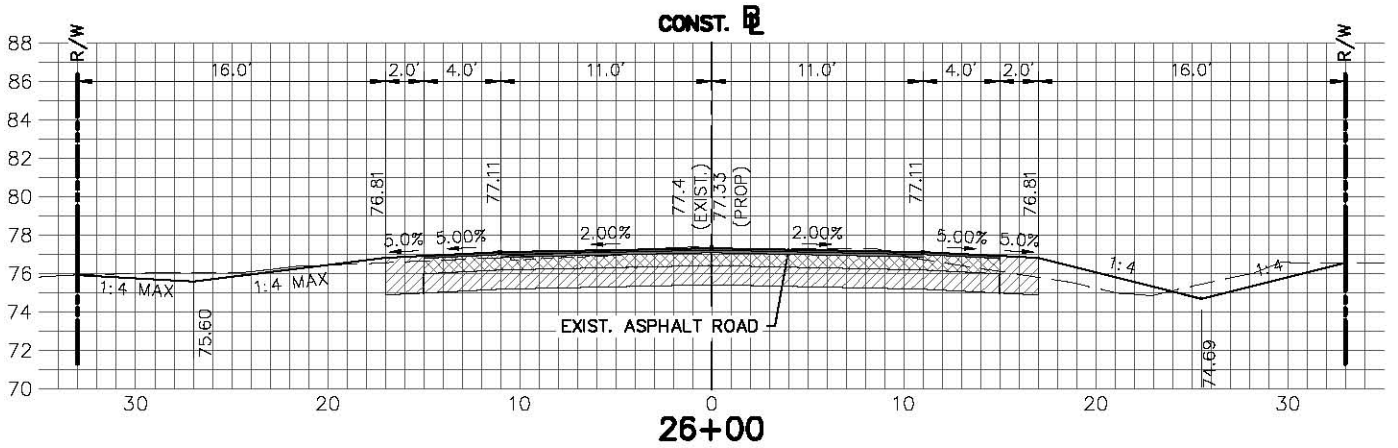
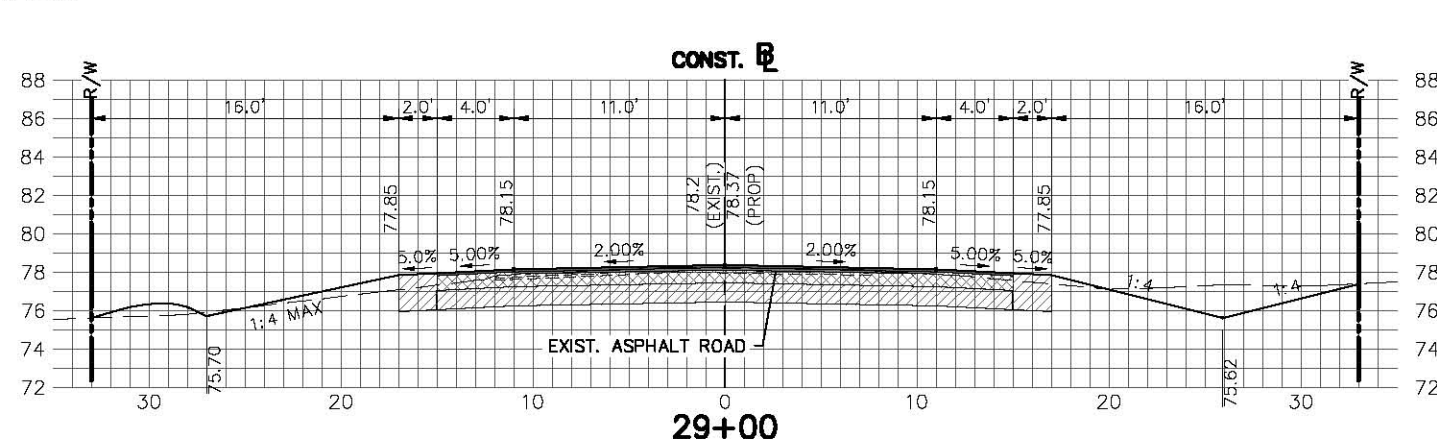
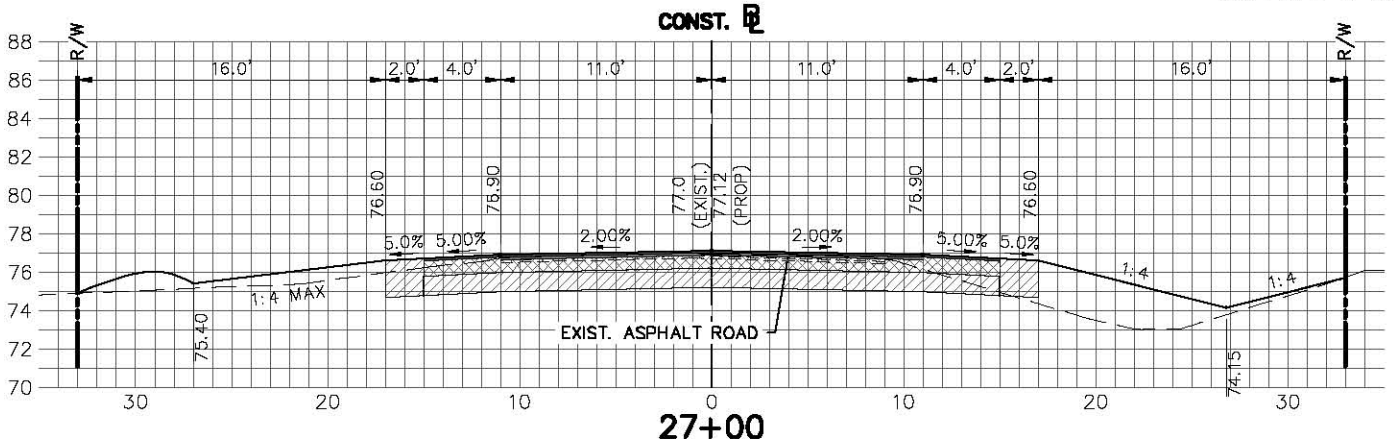
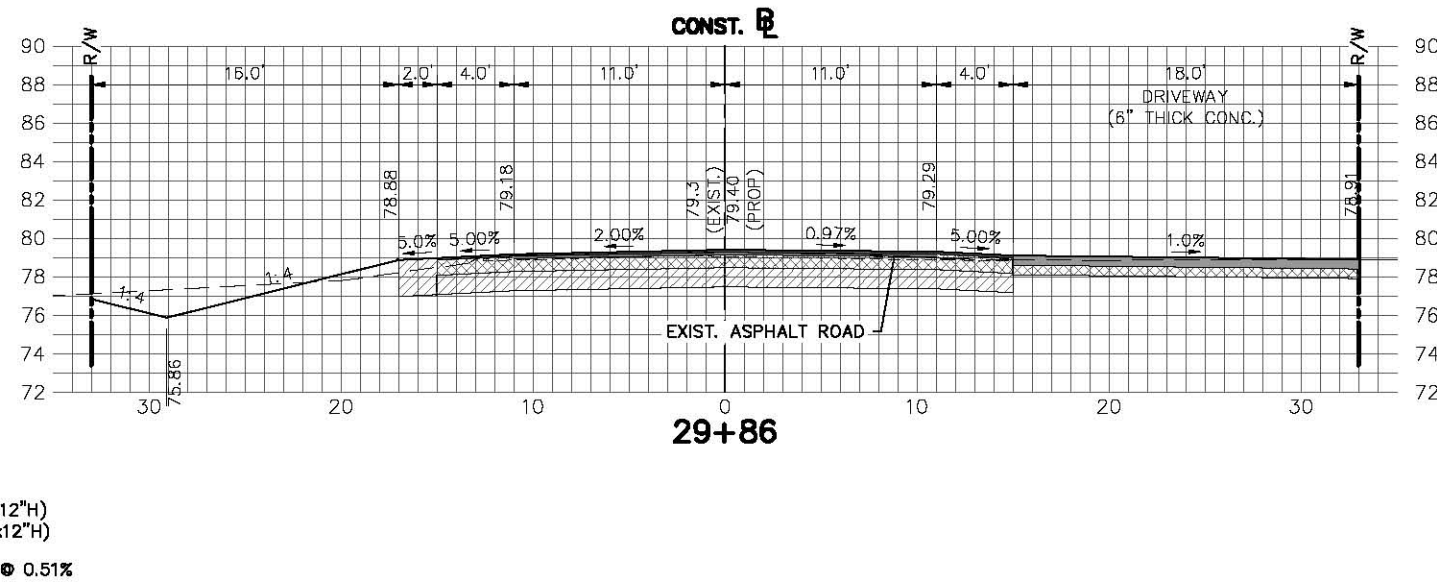
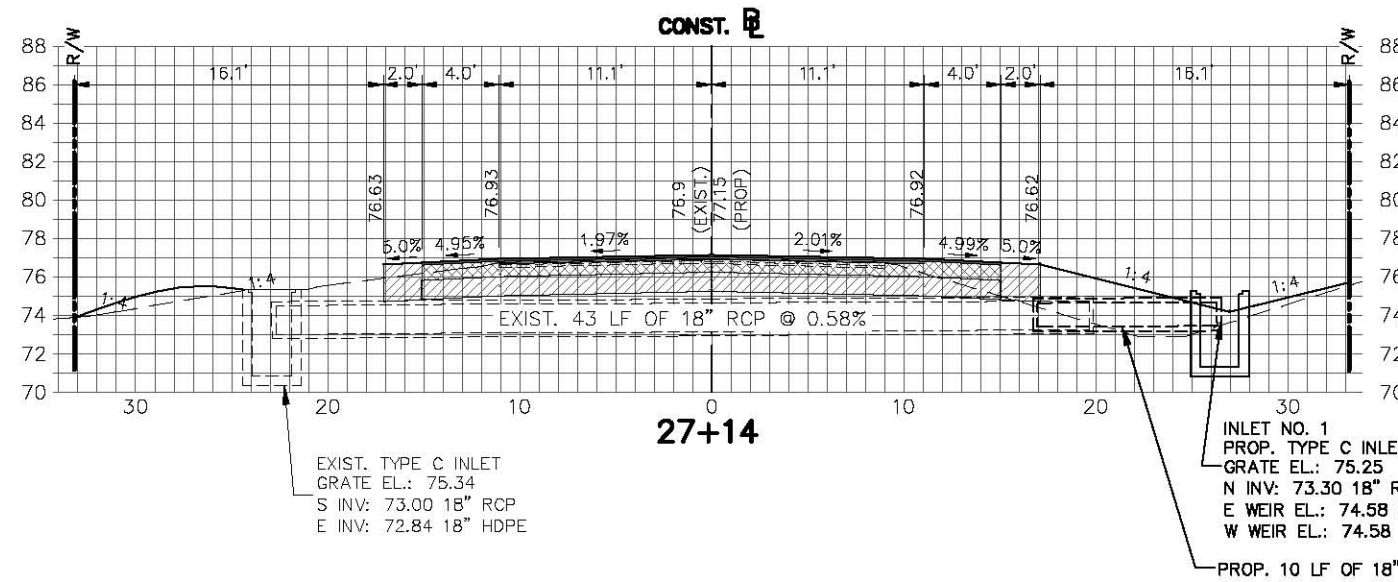


NOTE: SIGN HEIGHTS SHALL BE MINIMUM OF 7' TO A MAXIMUM OF 8' AS MEASURED FROM THE BOTTOM OF THE SIGN TO THE TOP OF THE CURB, OR IN THE ABSENCE OF CURB, MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE ELEVATION OF THE NEAR EDGE OF THE TRAVELED WAY.

REVISIONS			STATUS	DESIGNED BY: ELIUS F. NORTELUS, P.E.	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	
			FOR BID	DRAWN BY: KEITH BAKER, E.I.	APPROVED BY: ELIUS F. NORTELUS, P.E. FLORIDA REGISTRATION NO.: 70092		SHEET 44 OF 67		
				CHECKED BY: KEITH BAKER, E.I.					DATE: 5/19/2016



REVISIONS			STATUS		DESIGNED BY:		HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870		LAKE JOSEPHINE DRIVE IMPROVEMENTS		SCALE:
DATE	BY	DESCRIPTION	FOR BID		ELIUS F. NORTELIUS, P.E.				CROSS SECTIONS		HORIZ. 1"=10'
					FOR BID		DRAWN BY: DOUG NIETUBCZ		APPROVED BY: ELIUS F. NORTELIUS, P.E. FLORIDA REGISTRATION NO.: 70092	DATE:	PROJECT NO. 13008
			CHECKED BY: KEITH BAKER, E.I.								
					IN CHARGE: ELIUS F. NORTELIUS, P.E.						
					DATE: 5/19/2016						



REVISIONS			STATUS	
DATE	BY	DESCRIPTION		
			FOR BID	

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

DRAWN BY:
DOUG NIETUBCZ

CHECKED BY:
KEITH BAKER, E.I.

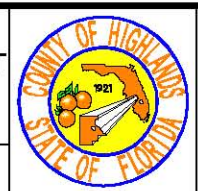
IN CHARGE:
ELIUS F. NORTELLUS, P.E.

DATE:
5/19/2016

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

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

DATE:



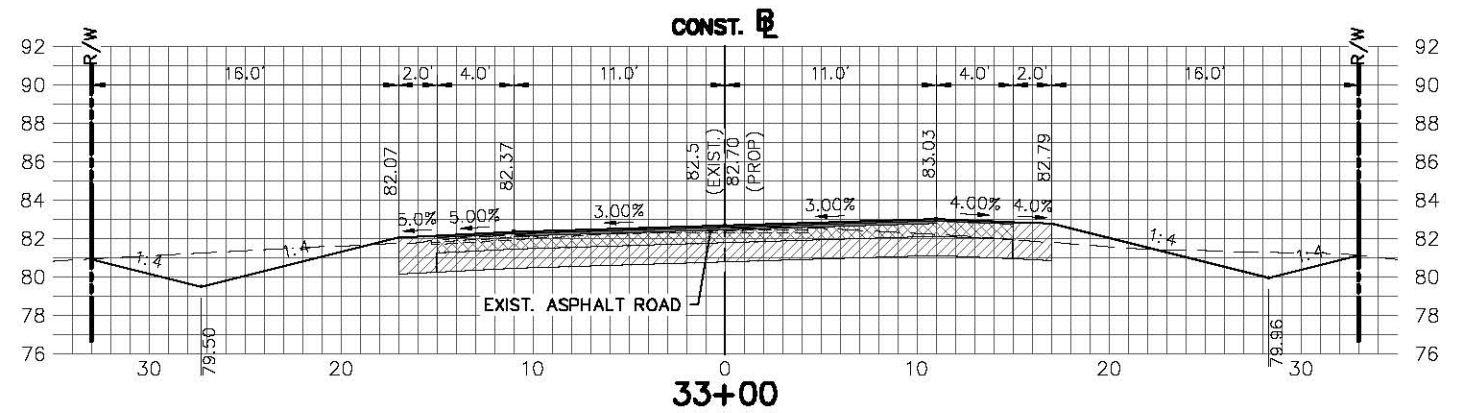
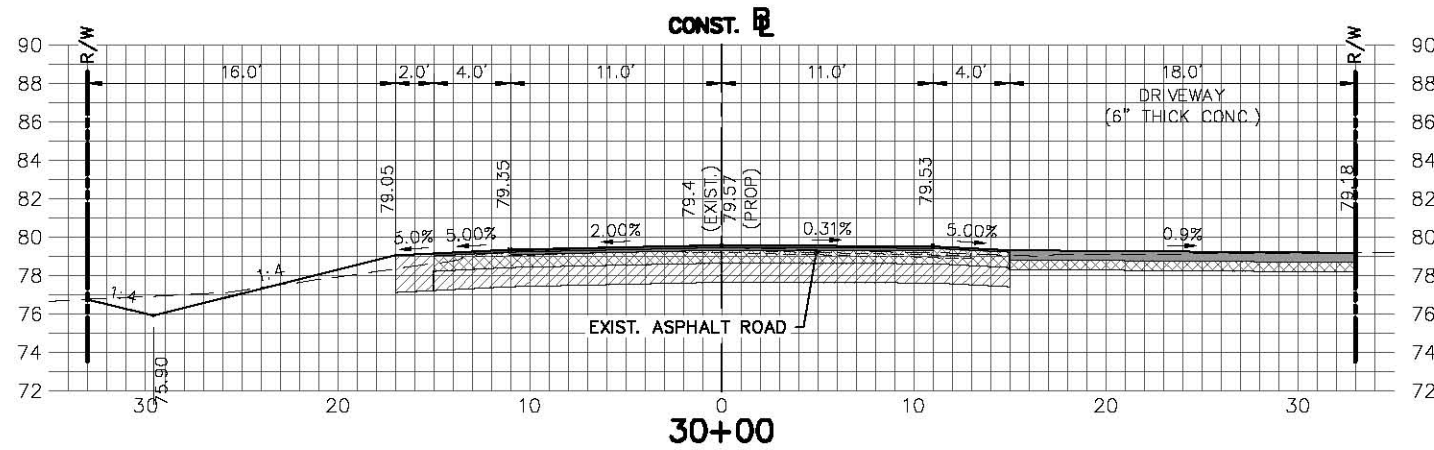
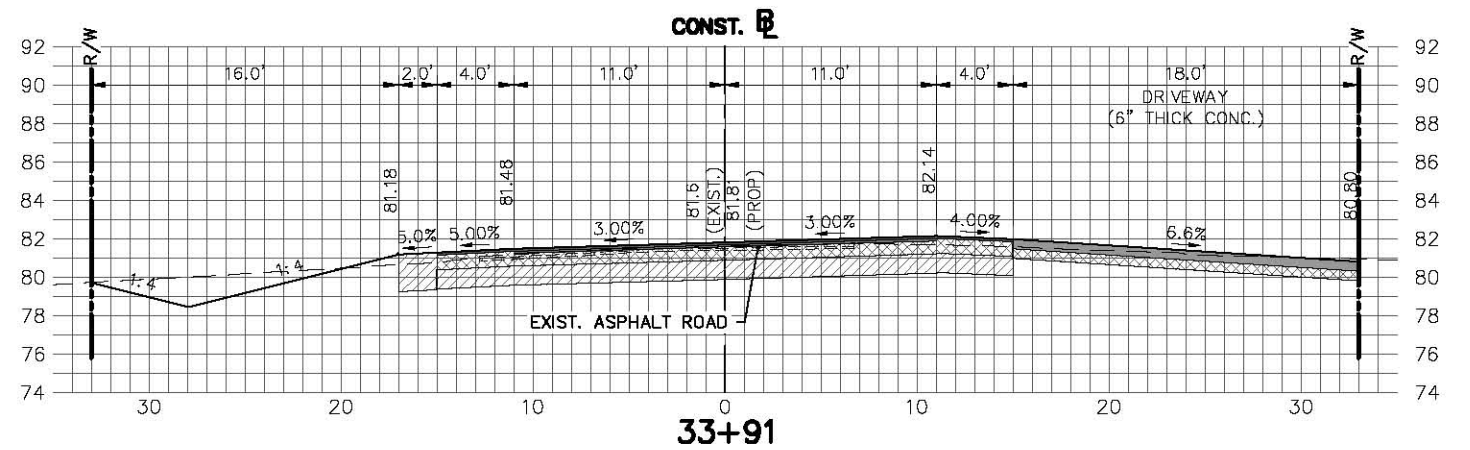
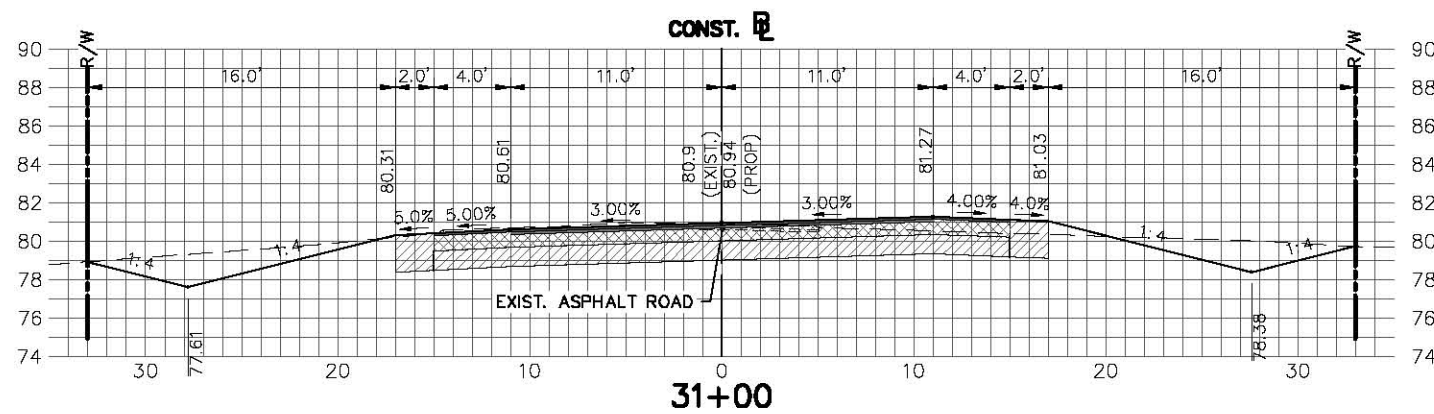
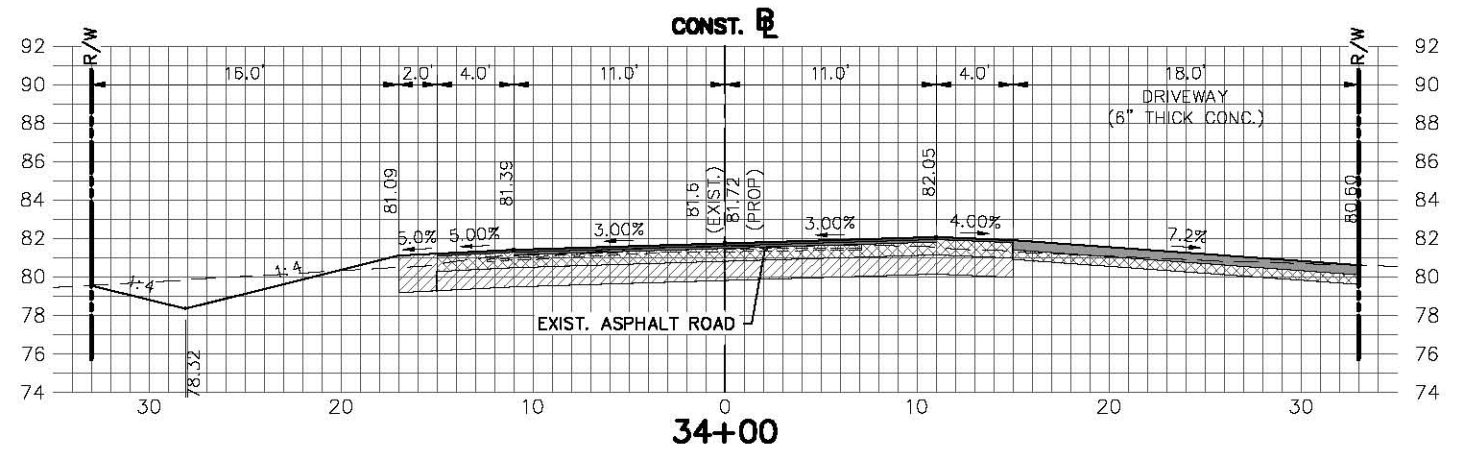
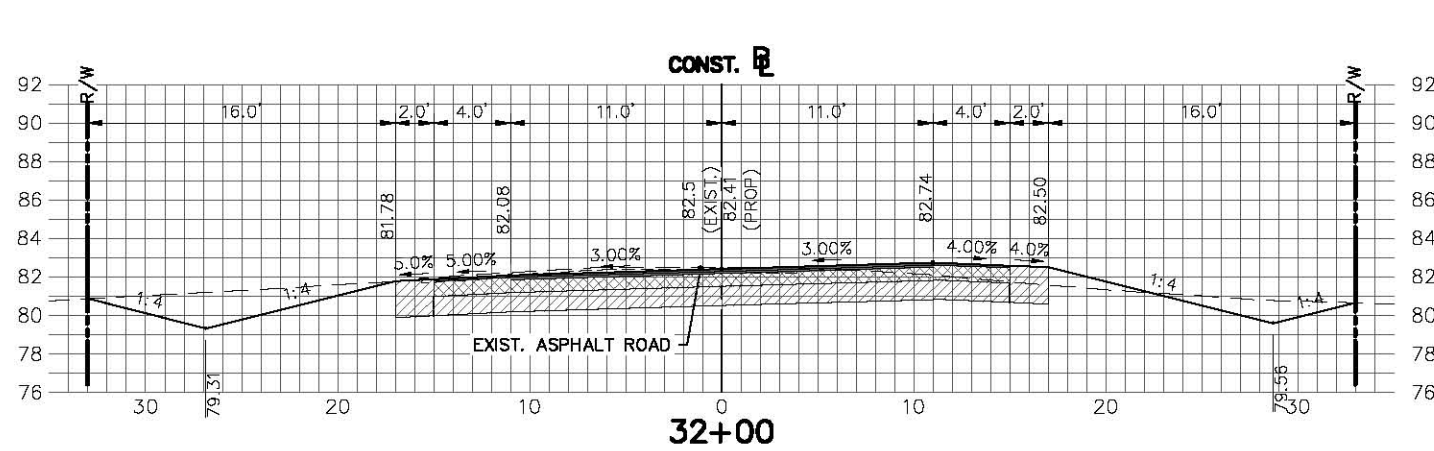
LAKE JOSEPHINE DRIVE
IMPROVEMENTS
CROSS SECTIONS

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

PROJECT NO.
13008

REV.
0

SHEET 45 OF 67



REVISIONS		
DATE	BY	DESCRIPTION

STATUS
FOR BID

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

DRAWN BY:
DOUG NIETUBCZ

CHECKED BY:
KEITH BAKER, E.I.

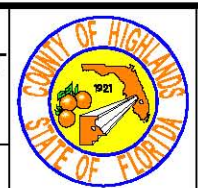
IN CHARGE:
ELIUS F. NORTELLUS, P.E.

DATE:
5/19/2016

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

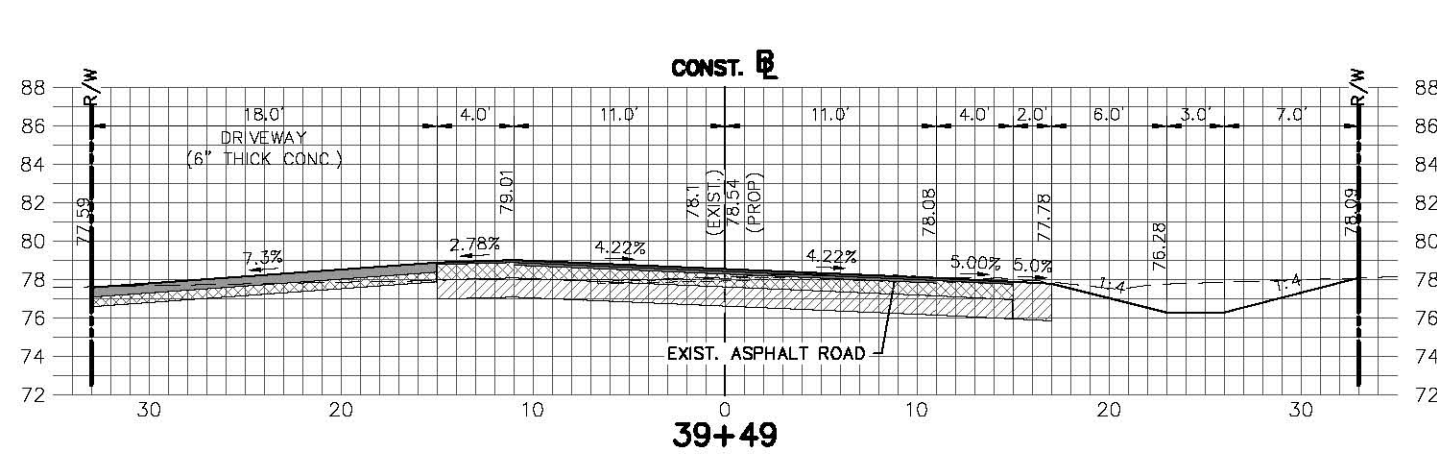
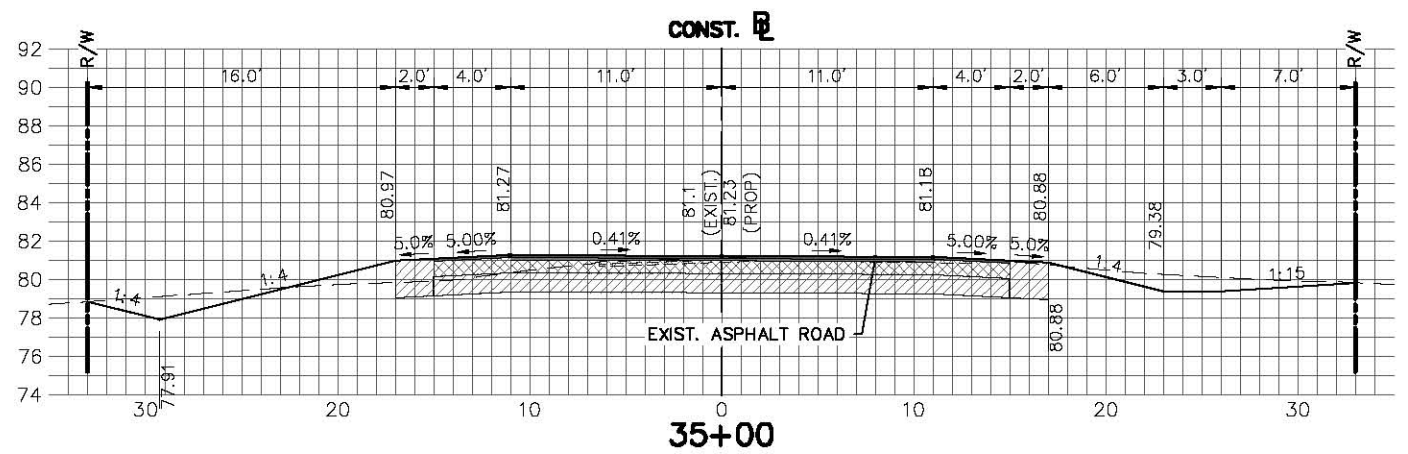
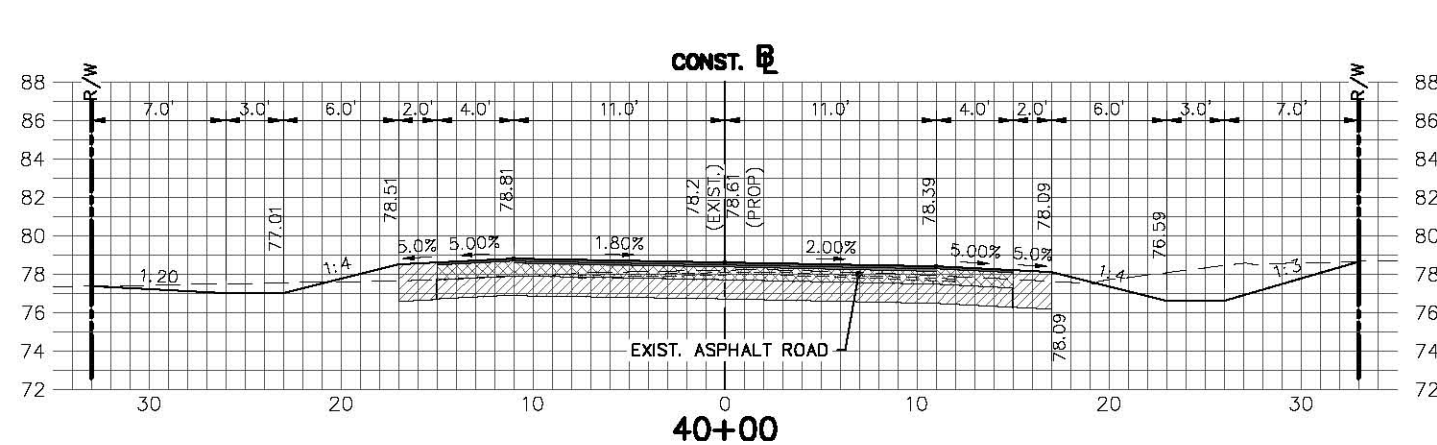
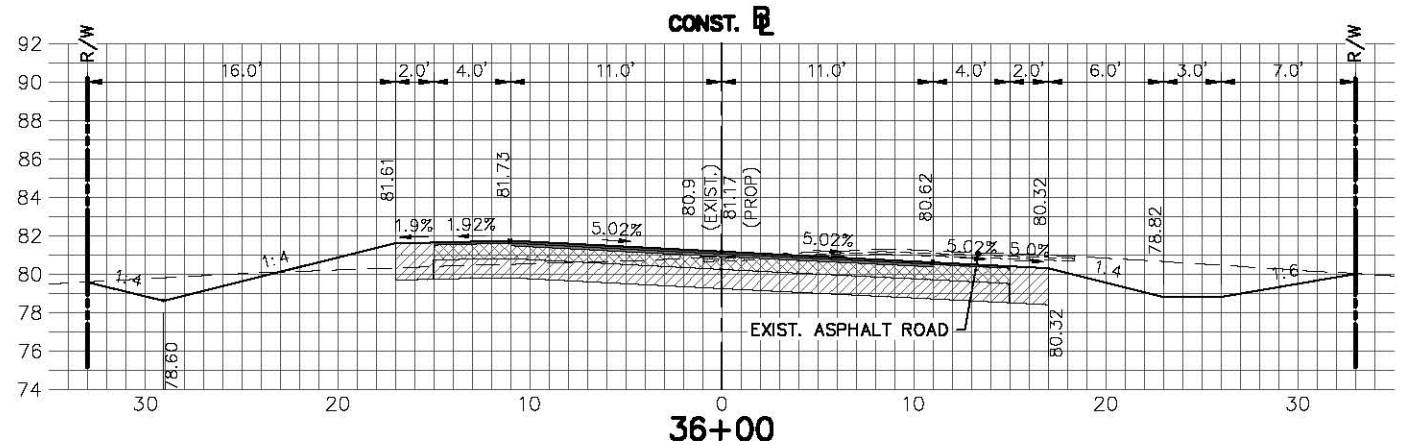
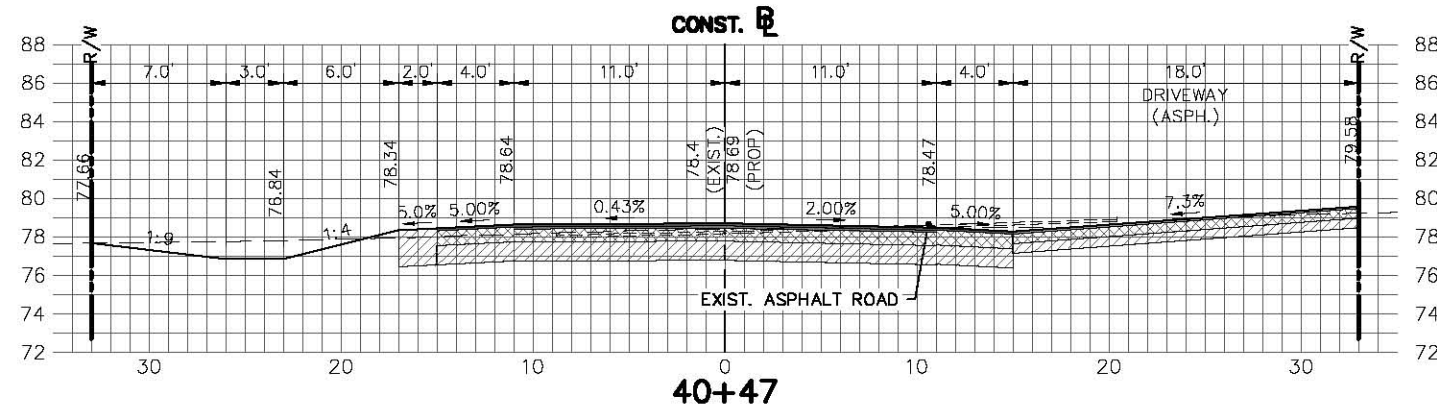
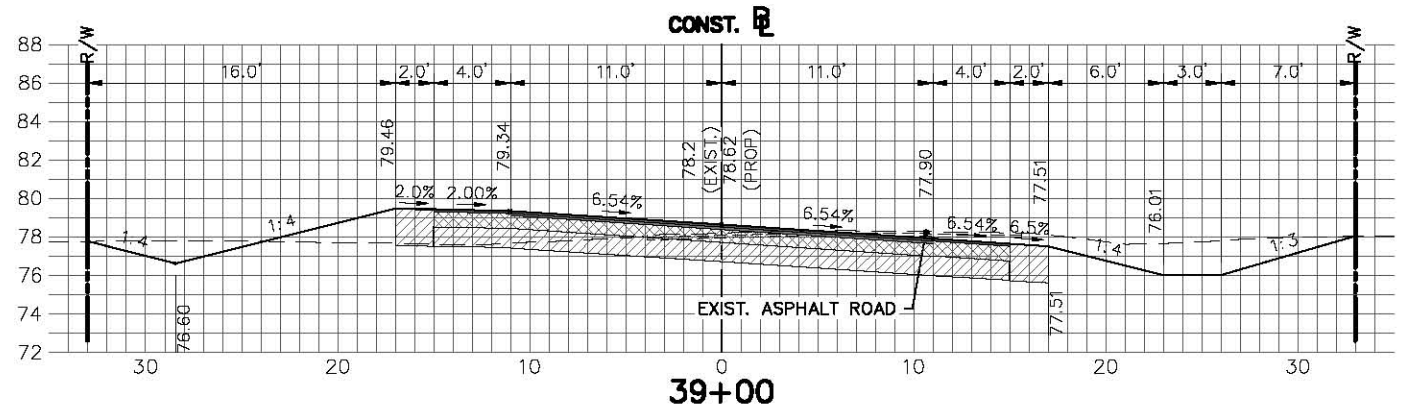
APPROVED BY: ELIUS F. NORTELLUS, P.E.
FLORIDA REGISTRATION NO.: 70092

DATE:




**LAKE JOSEPHINE DRIVE
IMPROVEMENTS
CROSS SECTIONS**

SCALE: HORIZ. 1"=10' VERT. 1"=10'	
PROJECT NO. 13008	REV. 0
SHEET 46 OF 67	



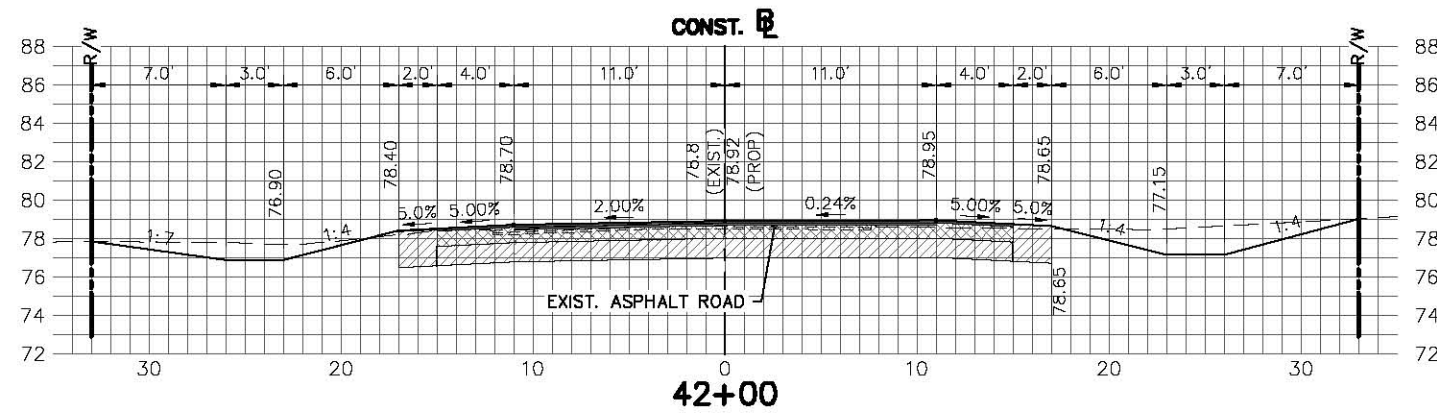
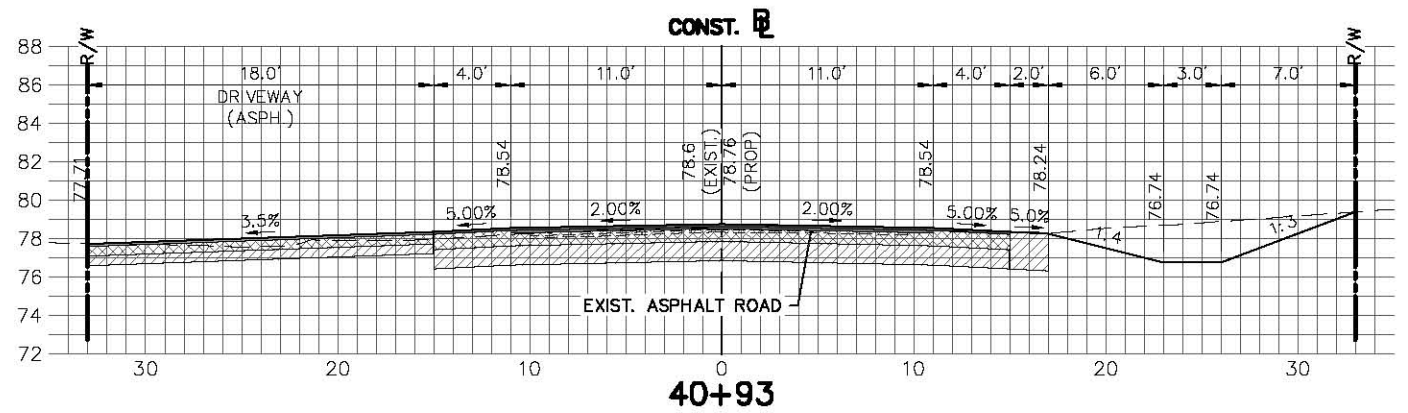
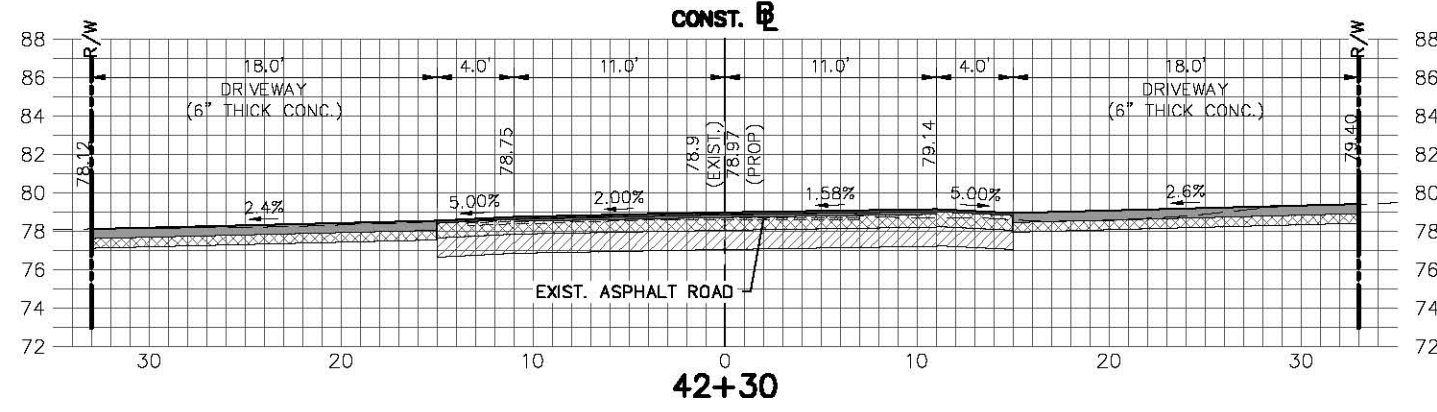
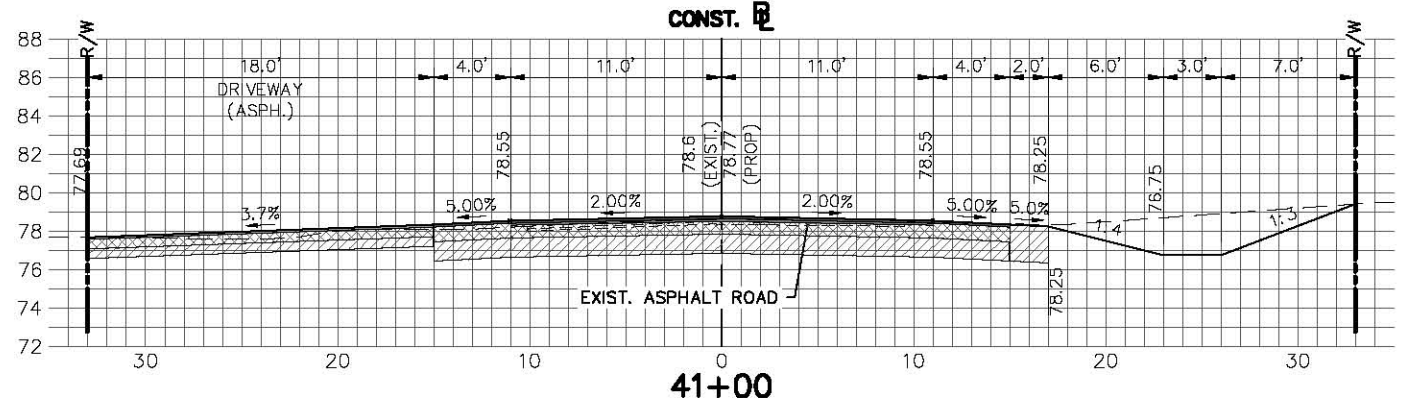
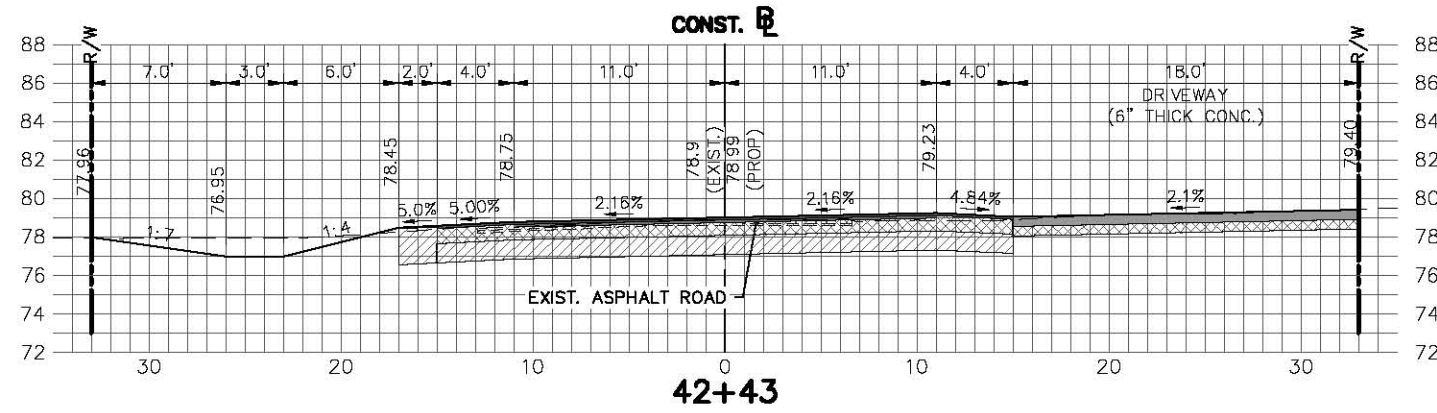
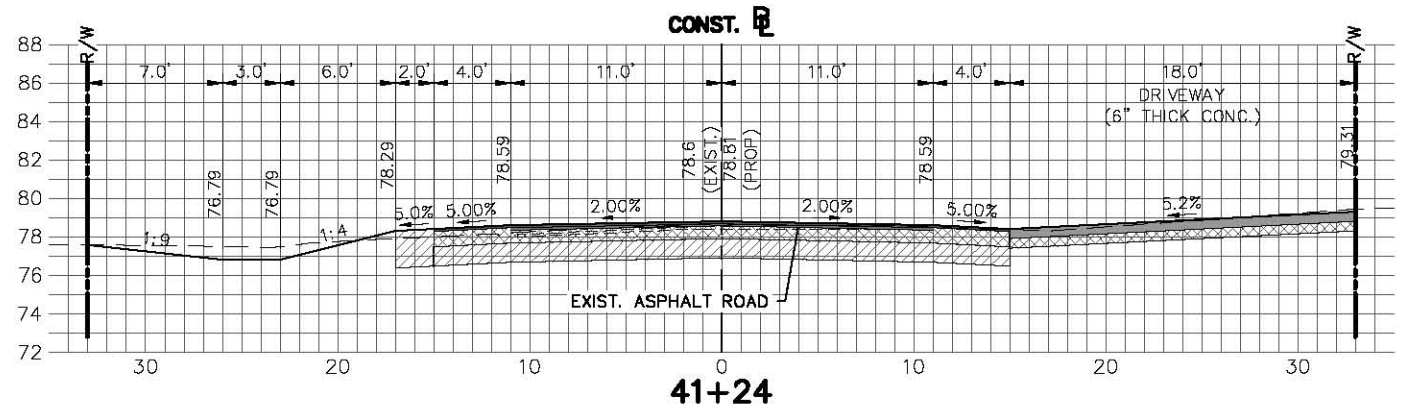
REVISIONS			STATUS		DESIGNED BY: ELIUS F. NORTELLUS, P.E.	DRAWN BY: DOUG NIETUBICZ	CHECKED BY: KEITH BAKER, E.I.	IN CHARGE: ELIUS F. NORTELLUS, P.E.	DATE: 5/19/2016	APPROVED BY: ELIUS F. NORTELLUS, P.E.	DATE:	FLORIDA REGISTRATION NO.: 70092	SCALE: HORIZ. 1"=10' VERT. 1"=10'	PROJECT NO. 13008	REV. 0
DATE	BY	DESCRIPTION	FOR BID												

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



LAKE JOSEPHINE DRIVE
IMPROVEMENTS
CROSS SECTIONS

SHEET 47 OF 67



REVISIONS			STATUS
DATE	BY	DESCRIPTION	
			FOR BID

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

DRAWN BY:
DOUG NIETUBICZ

CHECKED BY:
KEITH BAKER, E.I.

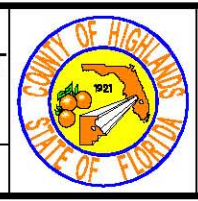
IN CHARGE:
ELIUS F. NORTELLUS, P.E.

DATE:
5/19/2016

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

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

DATE:



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

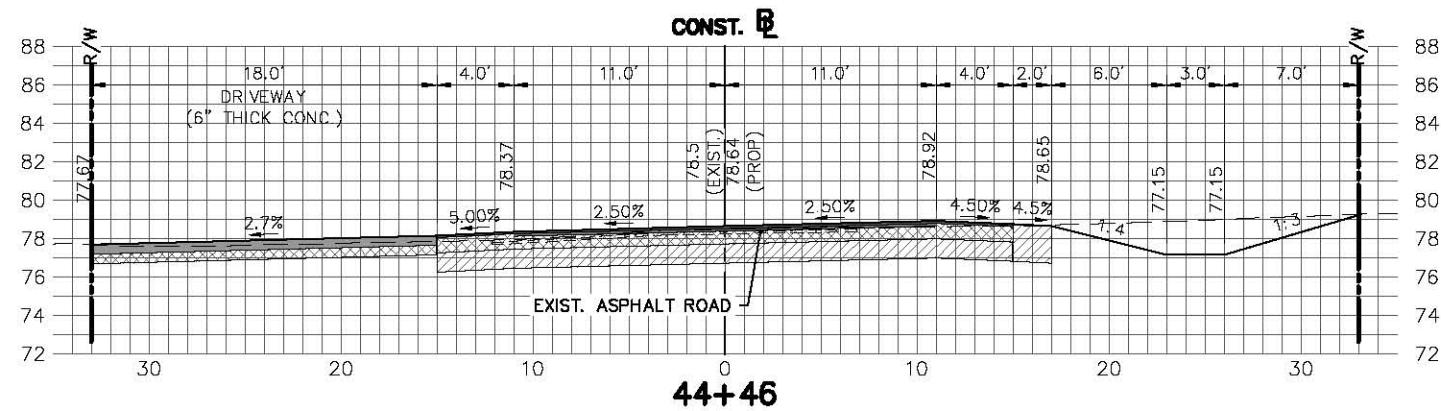
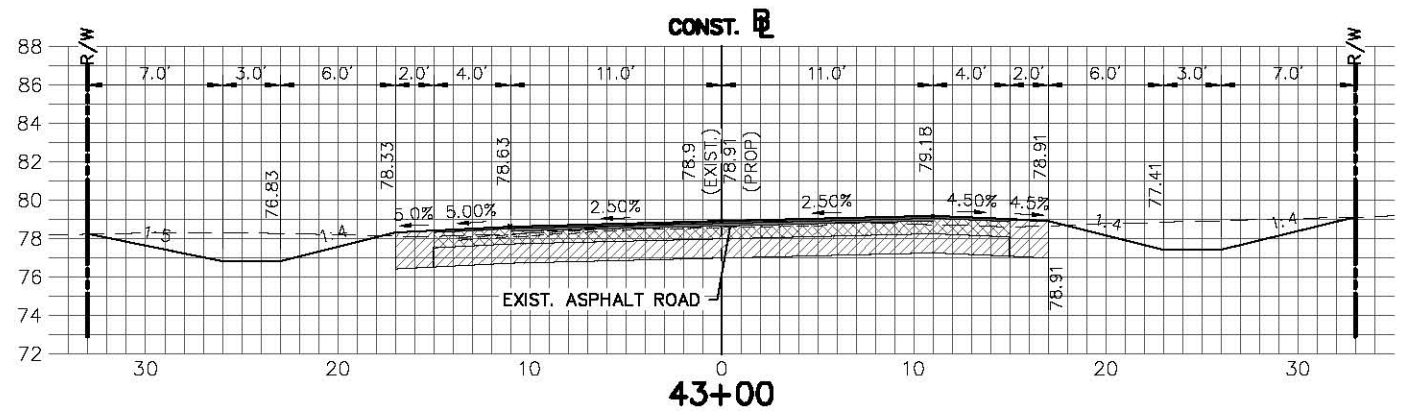
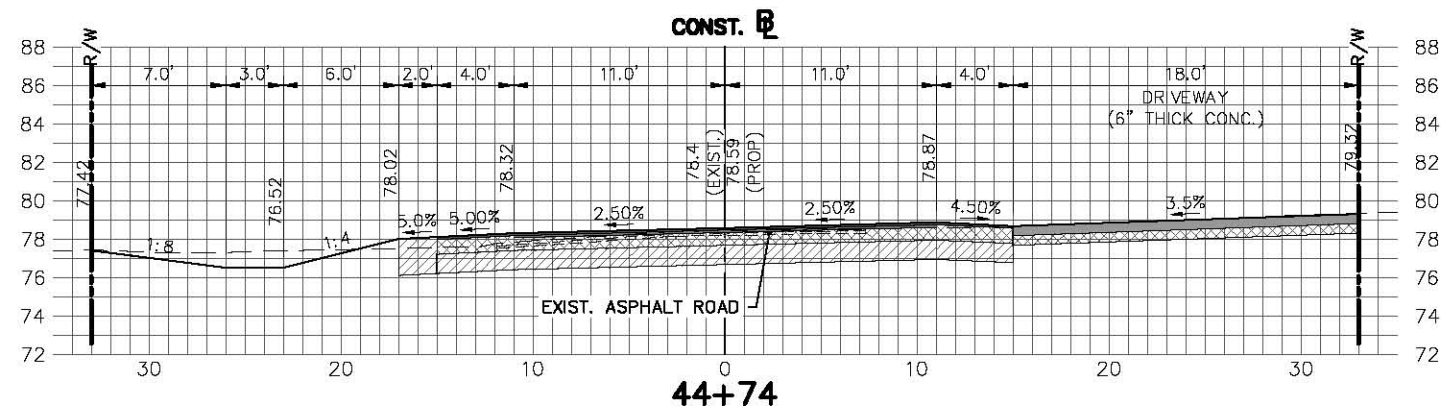
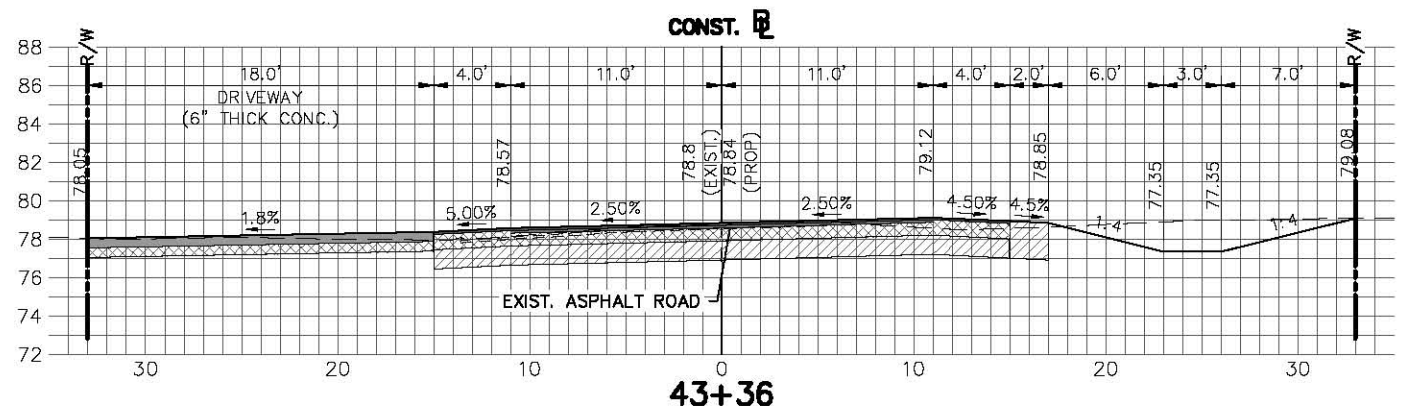
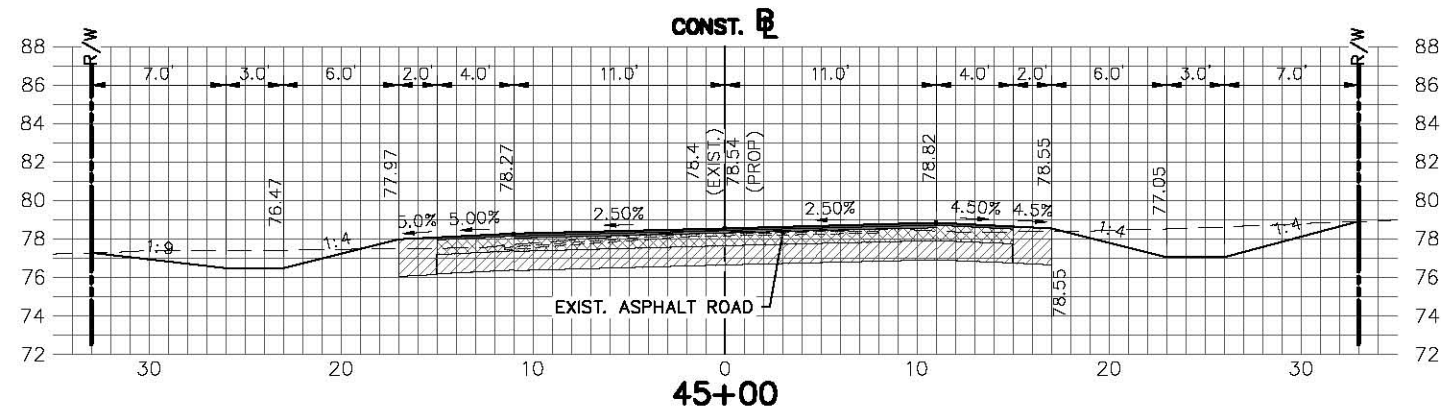
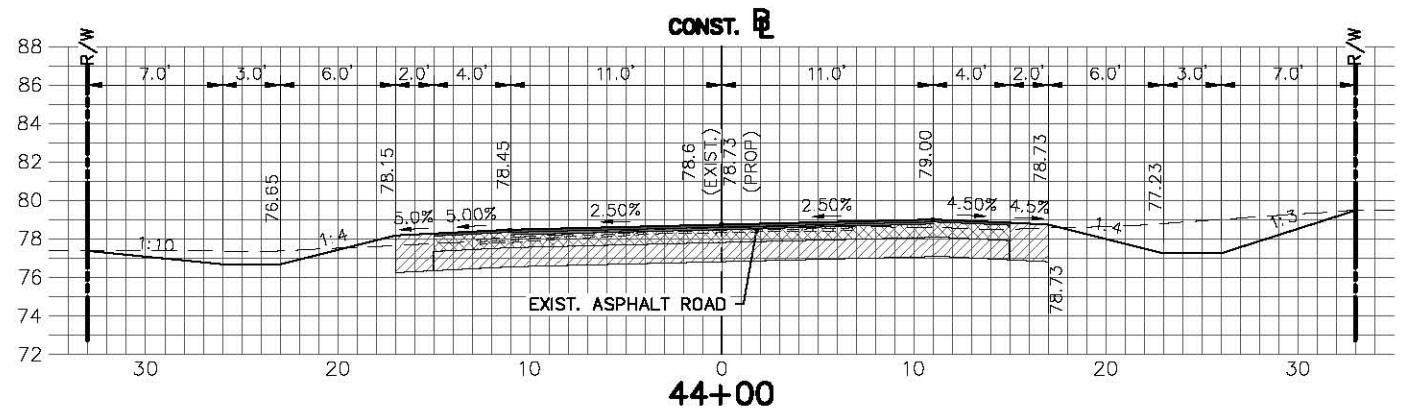
PROJECT NO.
13008

REV.
0

**LAKE JOSEPHINE DRIVE
IMPROVEMENTS
CROSS SECTIONS**

SHEET 48 OF 67

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 - (4), Nietubicz, Douglas Colors As Black Except Gray



REVISIONS			STATUS	
DATE	BY	DESCRIPTION		
			FOR BID	

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

DRAWN BY: DOUG NIETUBICZ

CHECKED BY: KEITH BAKER, E.I.

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

DATE: 5/19/2016

HIGHLANDS COUNTY

ENGINEERING DEPARTMENT

505 S. COMMERCE AVENUE

SEBRING, FLORIDA 33870

APPROVED BY: ELIUS F. NORTELLUS, P.E.

FLORIDA REGISTRATION NO.: 70092

DATE: _____

LAKE JOSEPHINE DRIVE

IMPROVEMENTS

CROSS SECTIONS

SCALE:

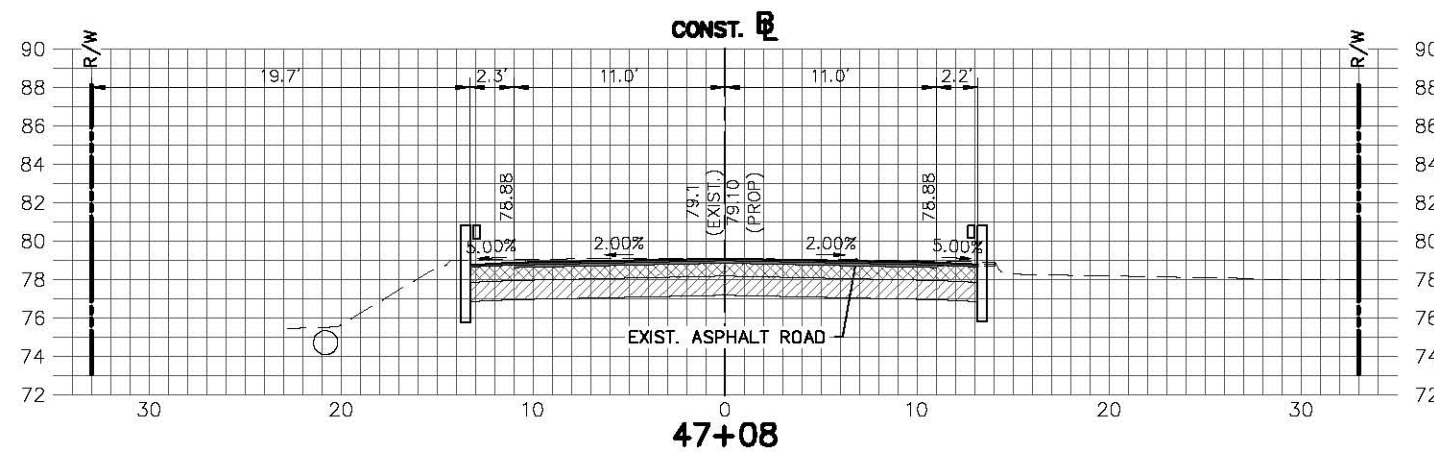
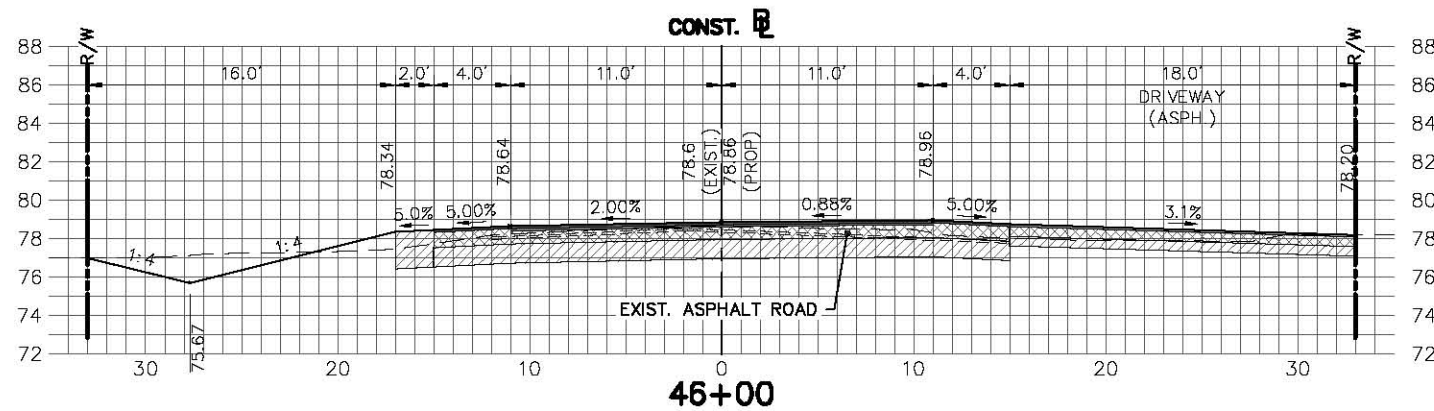
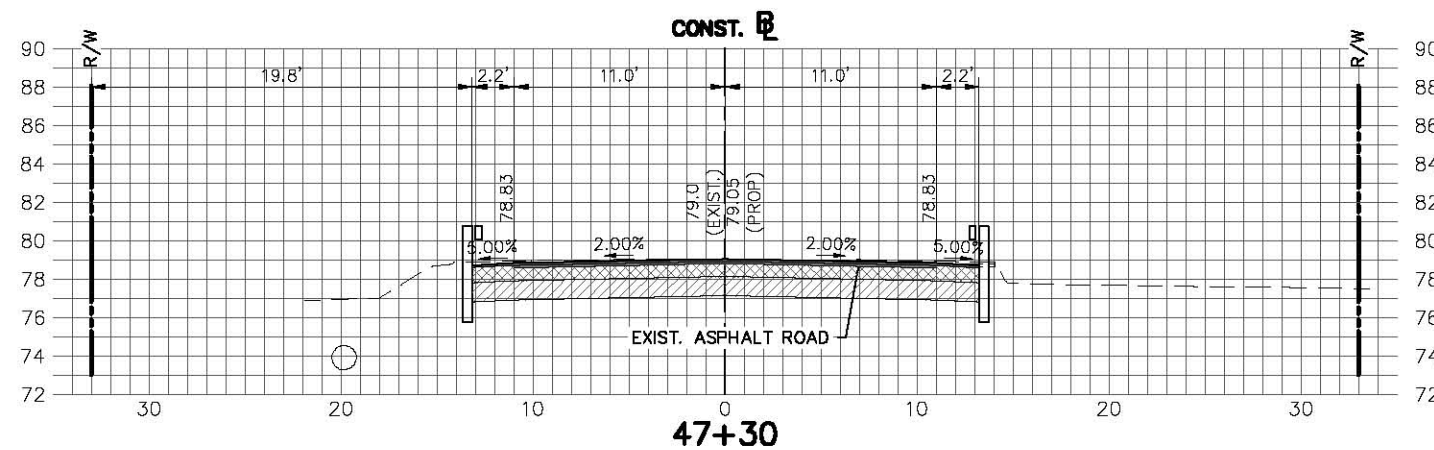
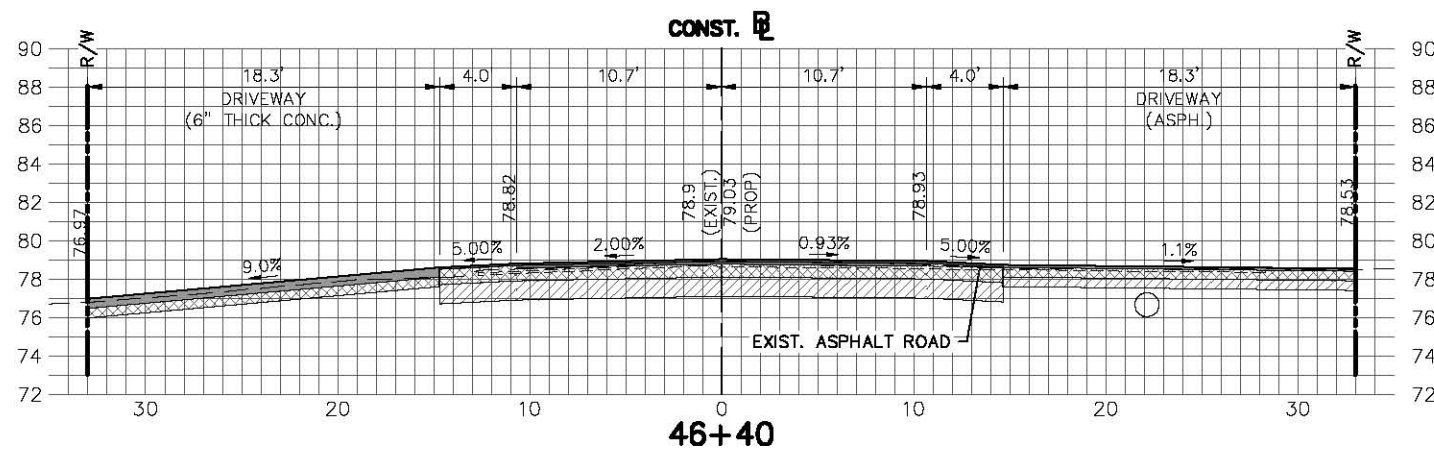
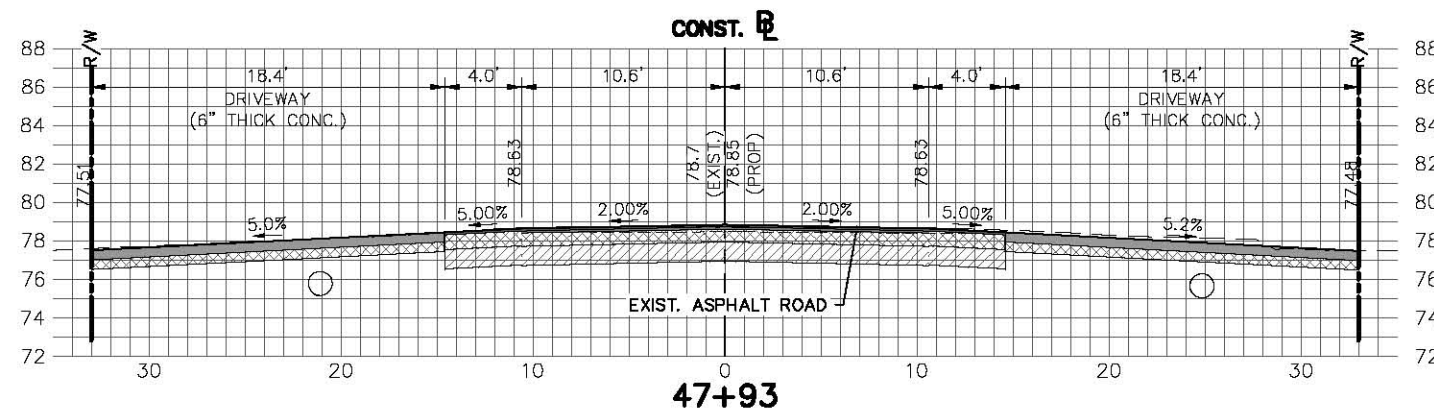
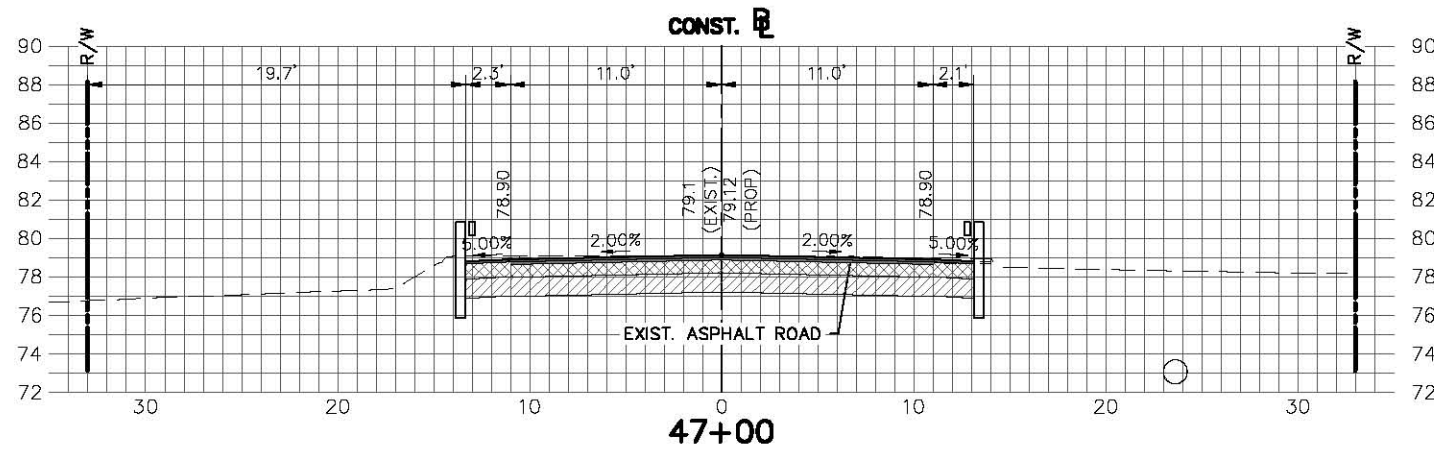
HORIZ. 1"=10'

VERT. 1"=10'

PROJECT NO. 13008

REV. 0

SHEET 49 OF 67

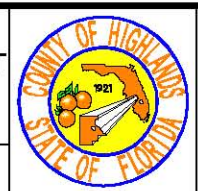


REVISIONS			STATUS	DESIGNED BY: ELIUS F. NORTELLUS, P.E.
DATE	BY	DESCRIPTION		
			FOR BID	DRAWN BY: DOUG NIETUBCZ CHECKED BY: KEITH BAKER, E.I. IN CHARGE: ELIUS F. NORTELLUS, P.E. DATE: 5/19/2016

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

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

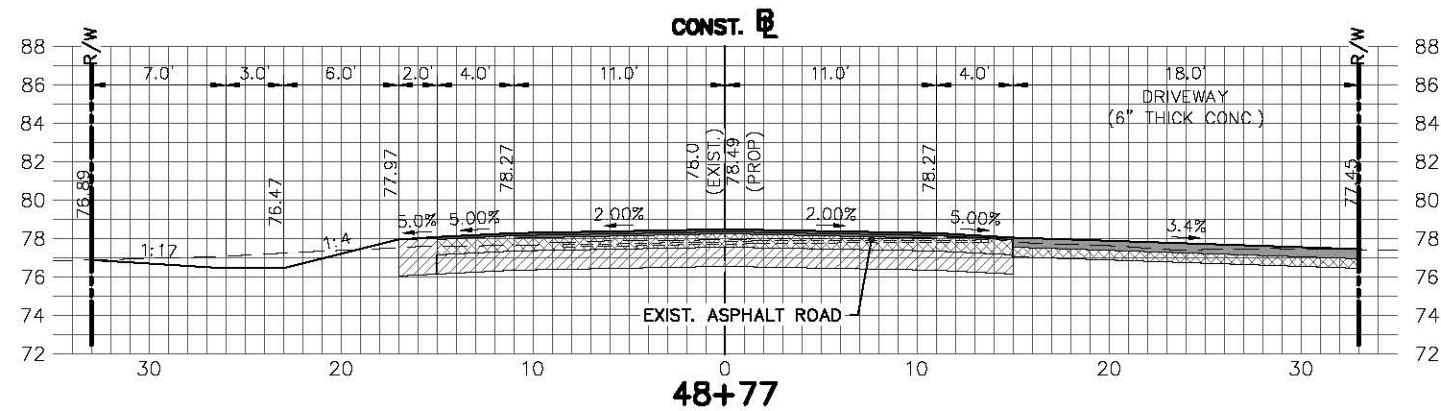
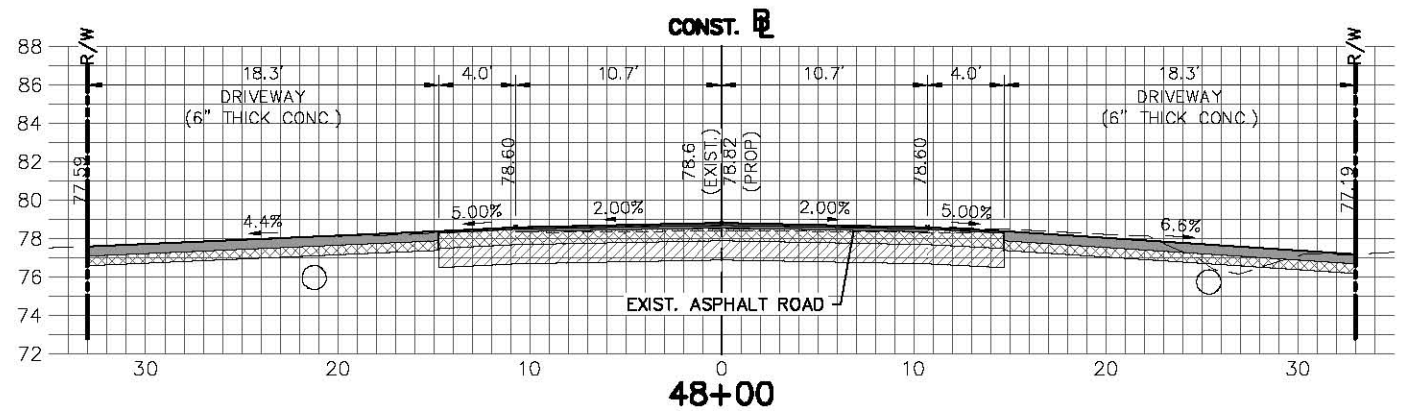
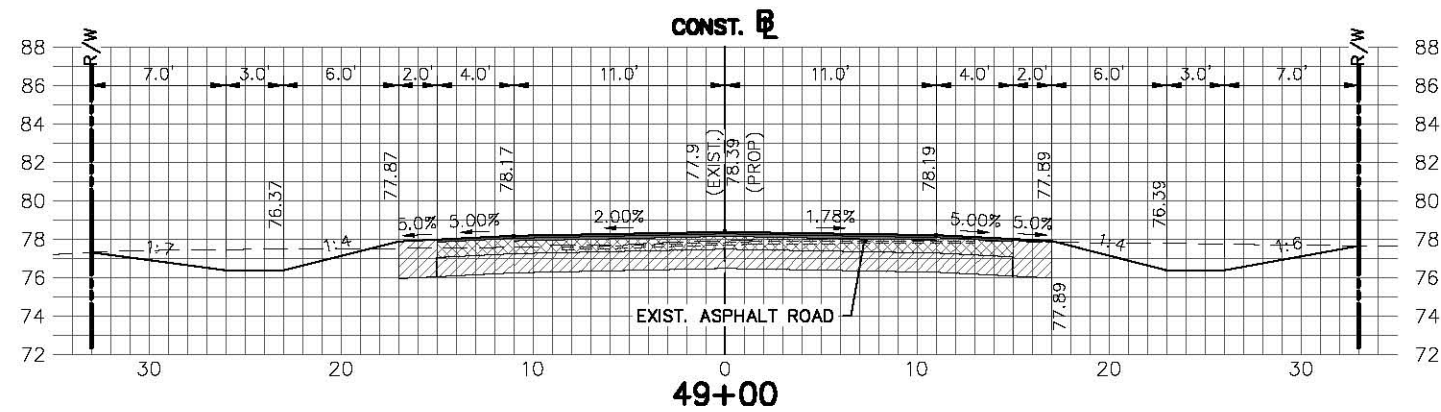
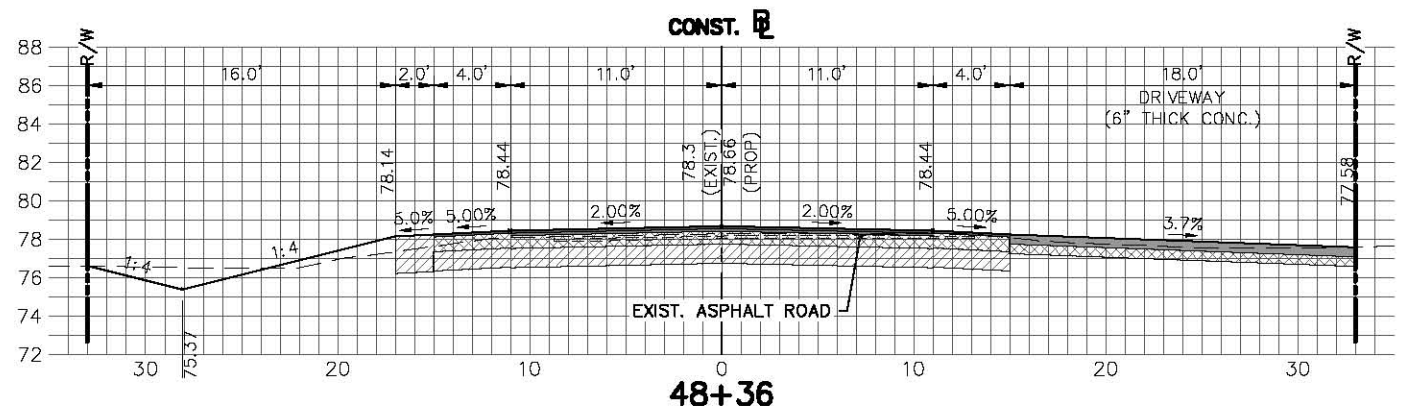
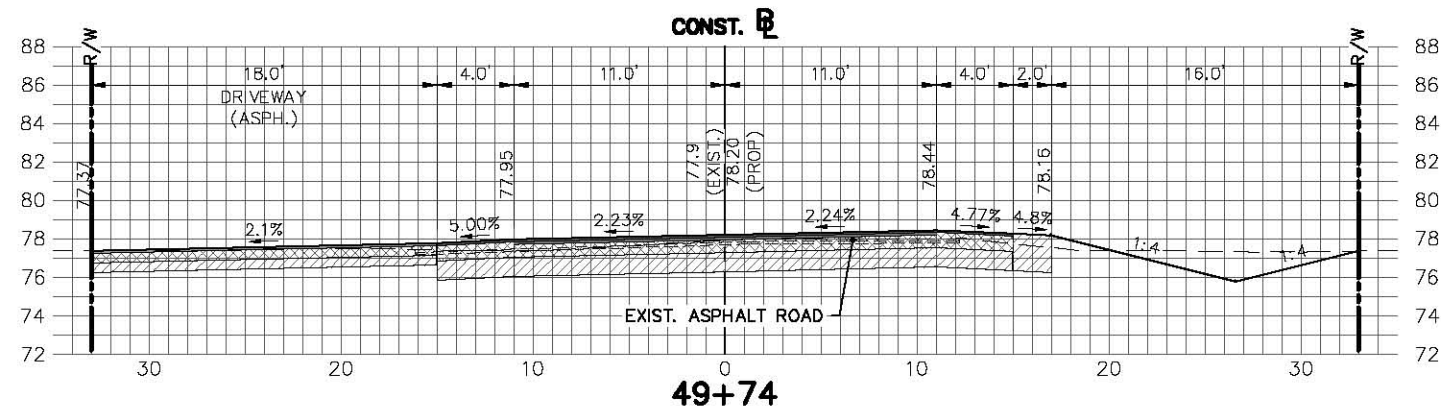
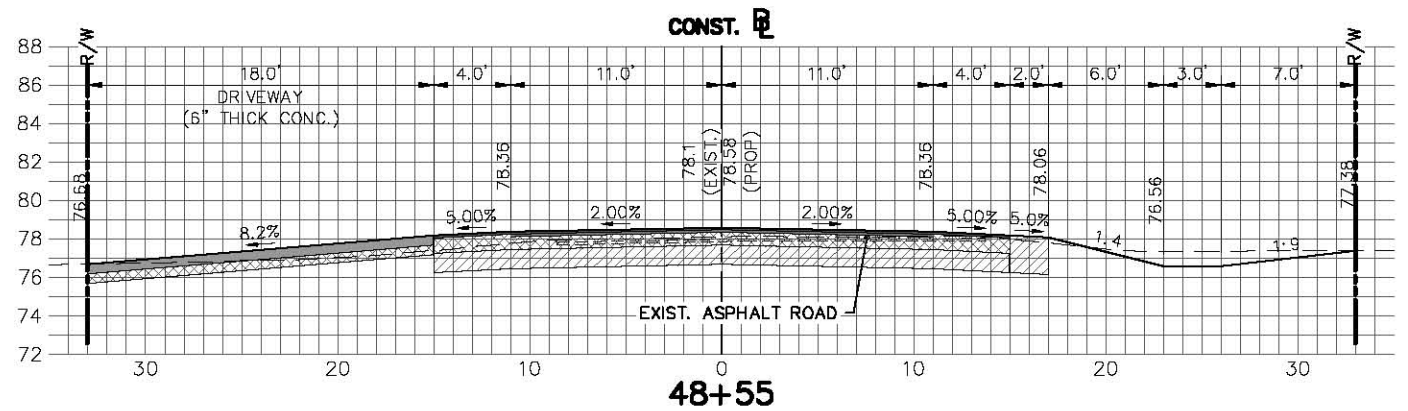
DATE: _____



**LAKE JOSEPHINE DRIVE
IMPROVEMENTS
CROSS SECTIONS**

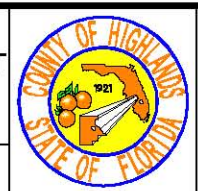
SCALE: HORIZ. 1"=10' VERT. 1"=10'	
PROJECT NO. 13008	REV. 0
SHEET 50 OF 67	

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 - (6), Nietubcz, Douglas Colors As Black Except Gray



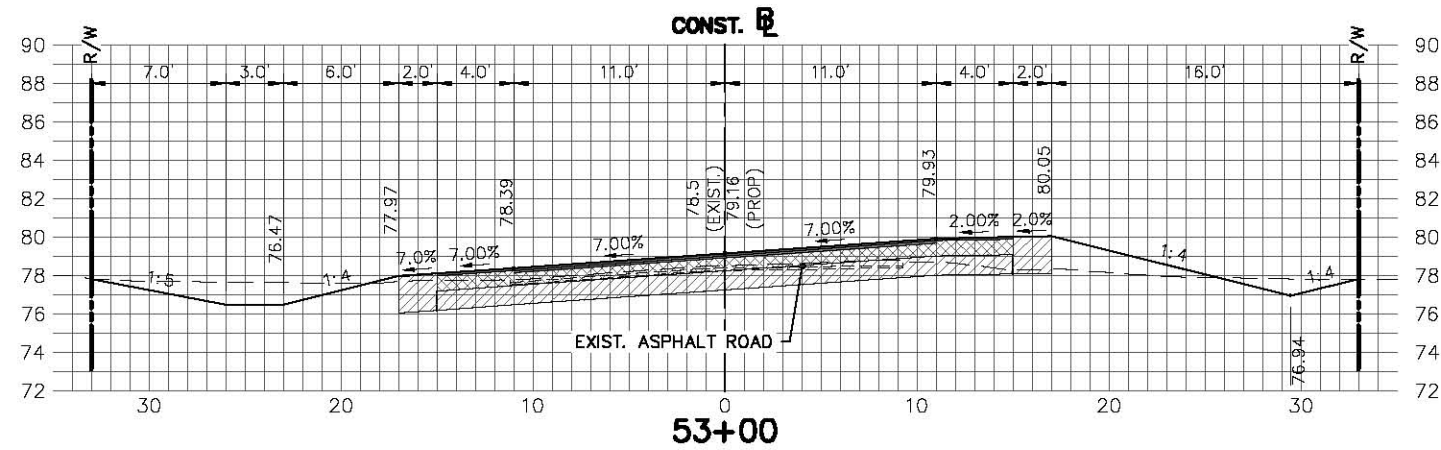
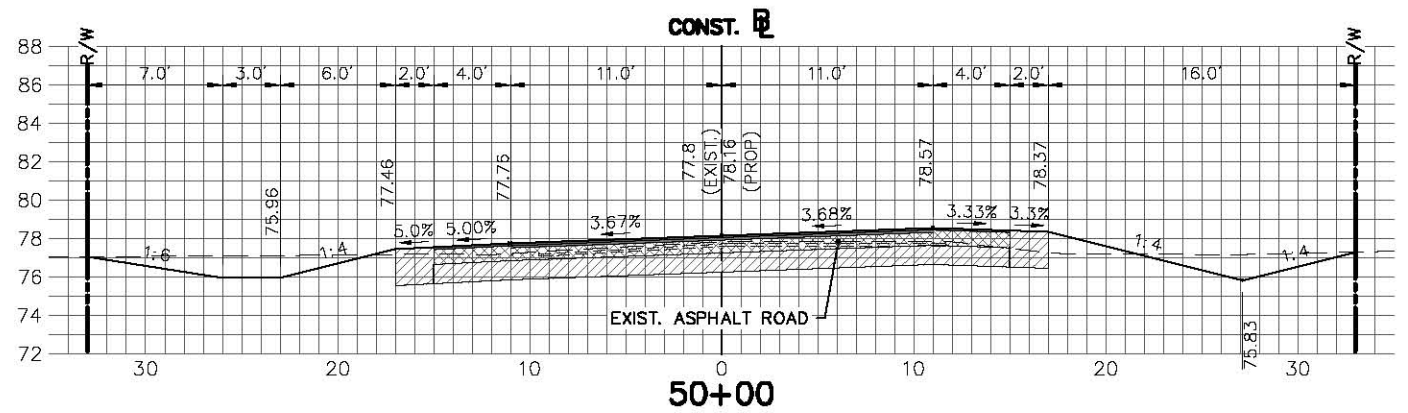
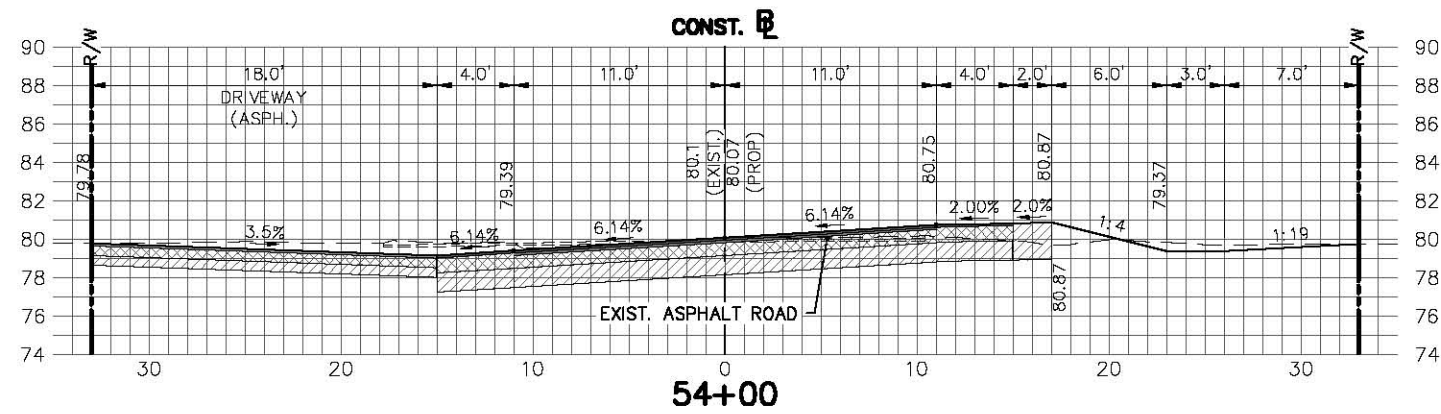
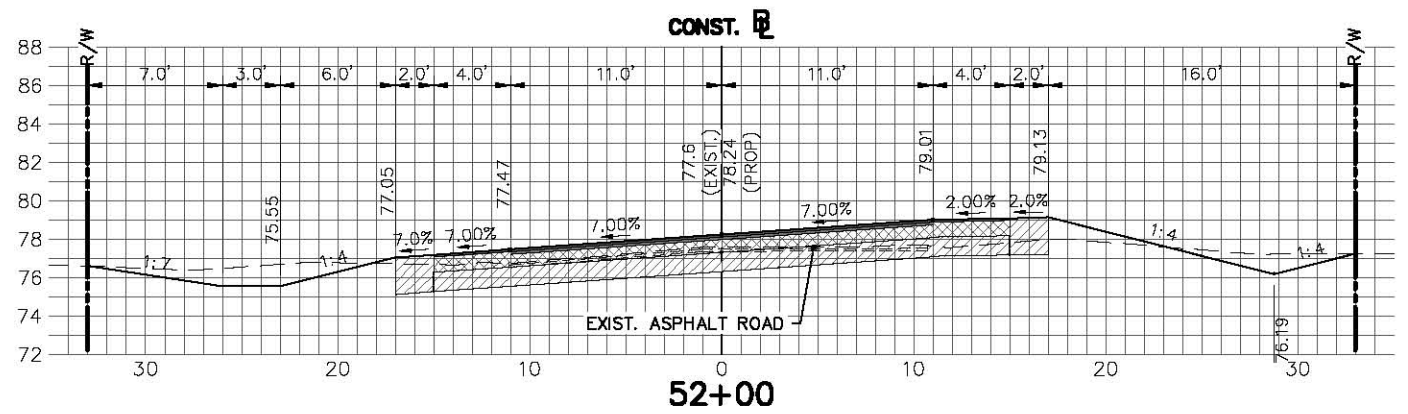
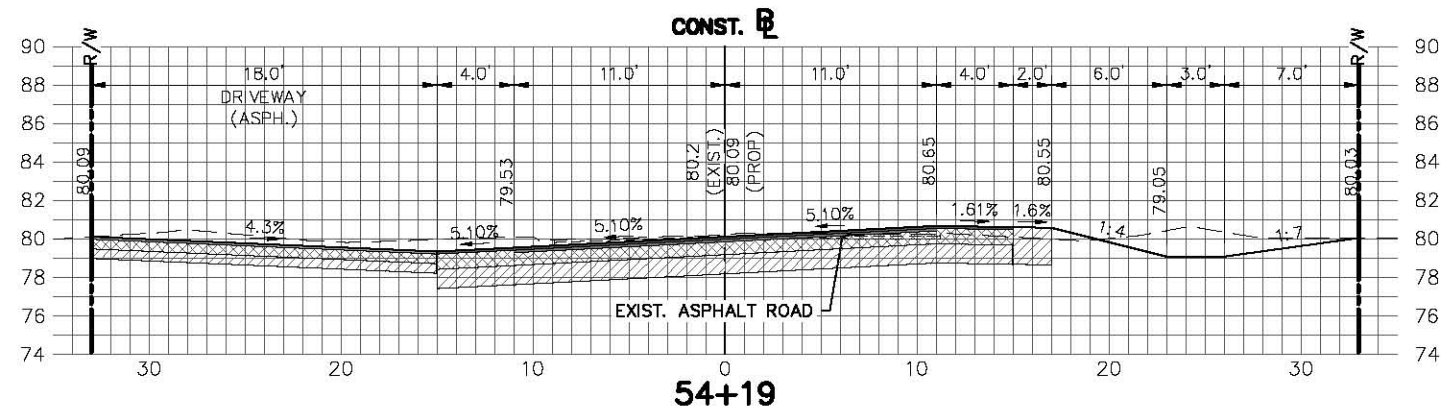
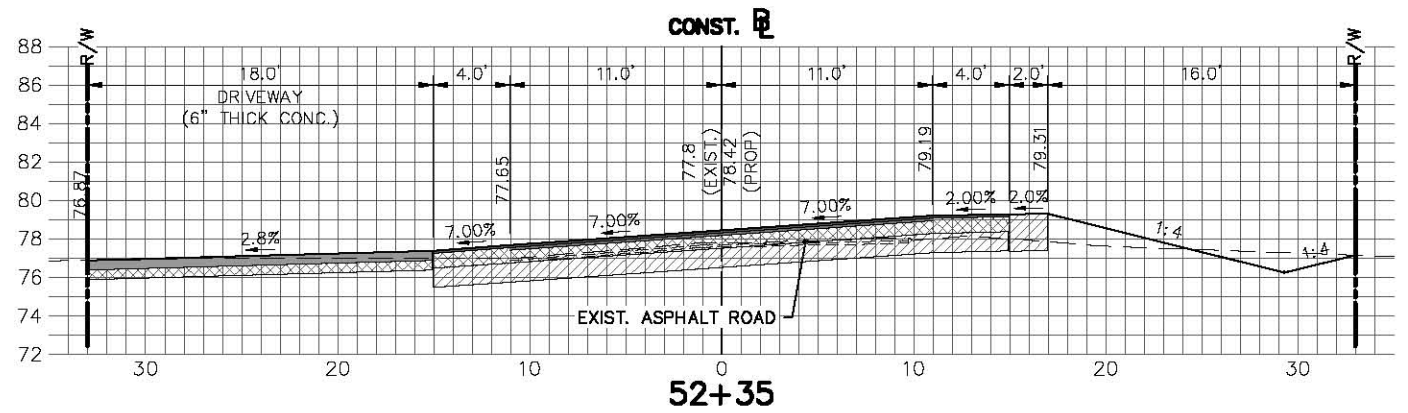
REVISIONS			STATUS	
DATE	BY	DESCRIPTION	FOR BID	

DESIGNED BY: ELIUS F. NORTELLUS, P.E.
 DRAWN BY: DOUG NIETUBCZ
 CHECKED BY: KEITH BAKER, E.I.
 IN CHARGE: ELIUS F. NORTELLUS, P.E.
HIGHLANDS COUNTY ENGINEERING DEPARTMENT
 505 S. COMMERCE AVENUE
 SEBRING, FLORIDA 33870
 APPROVED BY: ELIUS F. NORTELLUS, 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 51 OF 67

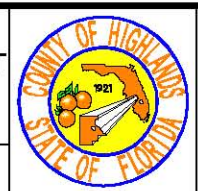


REVISIONS			STATUS	DESIGNED BY: ELIUS F. NORTELLUS, P.E.
DATE	BY	DESCRIPTION		
			FOR BID	DRAWN BY: DOUG NIETUBICZ CHECKED BY: KEITH BAKER, E.I. IN CHARGE: ELIUS F. NORTELLUS, P.E. DATE: 5/19/2016

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

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

DATE: _____

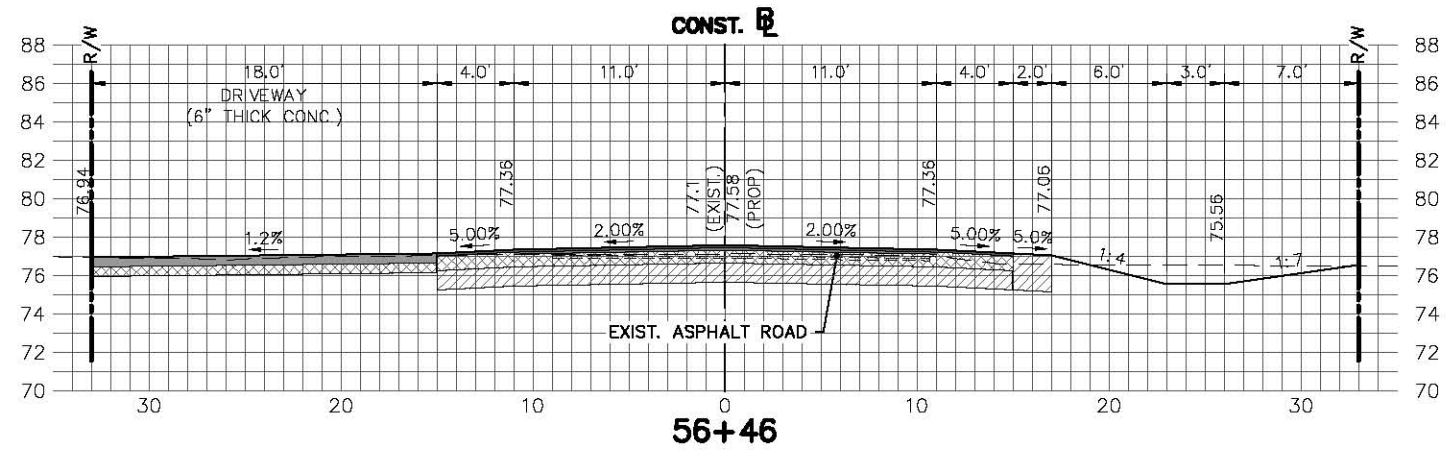
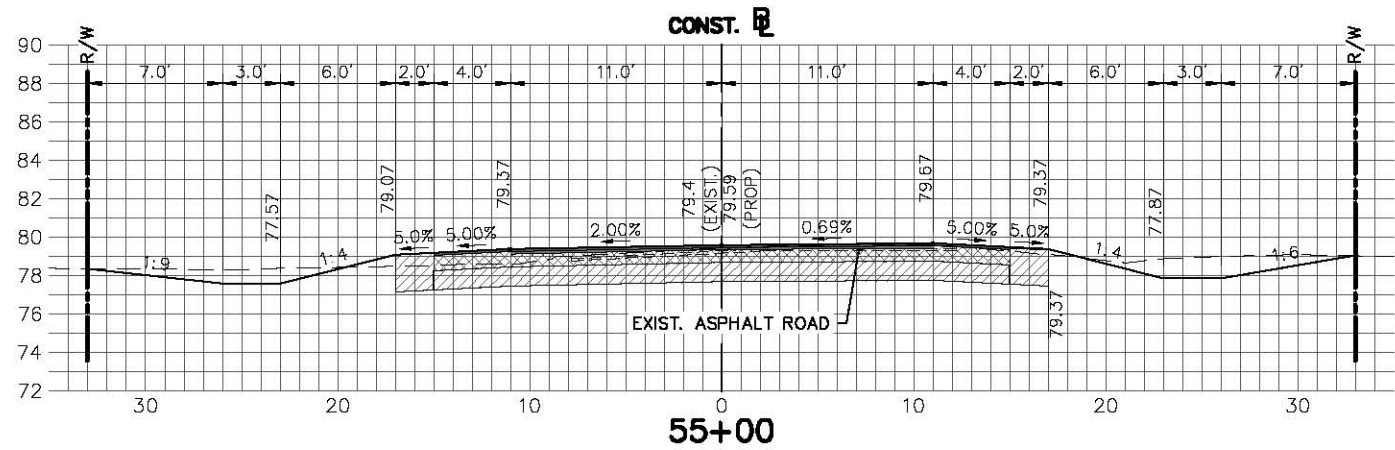
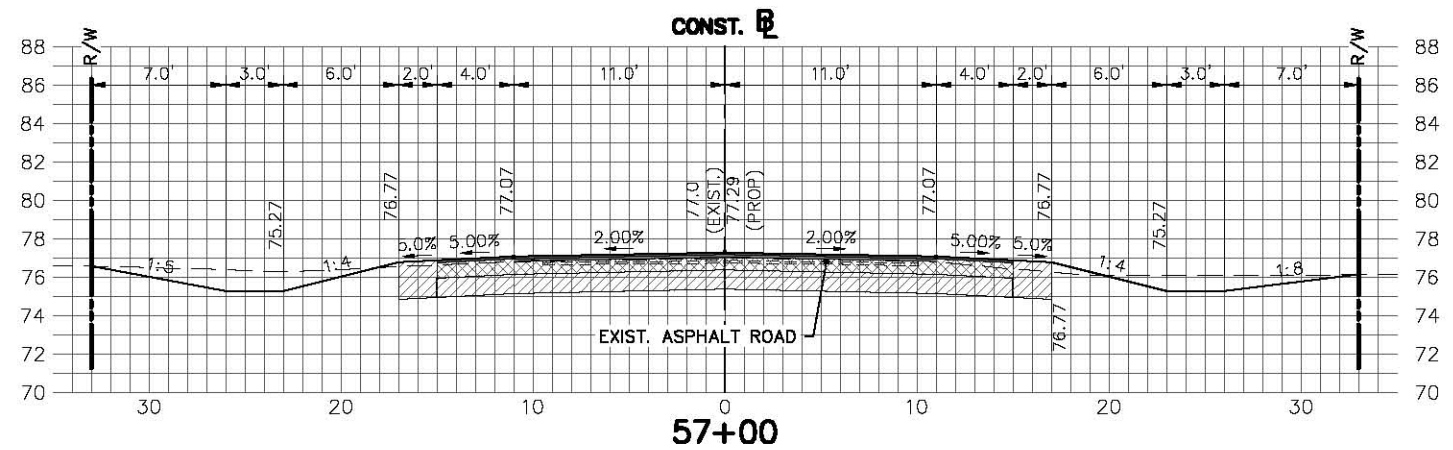
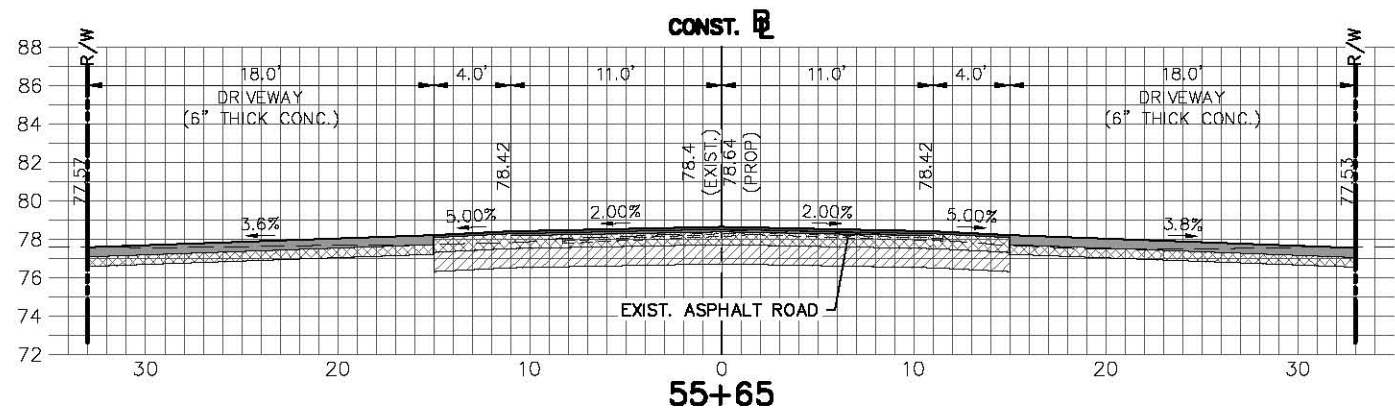
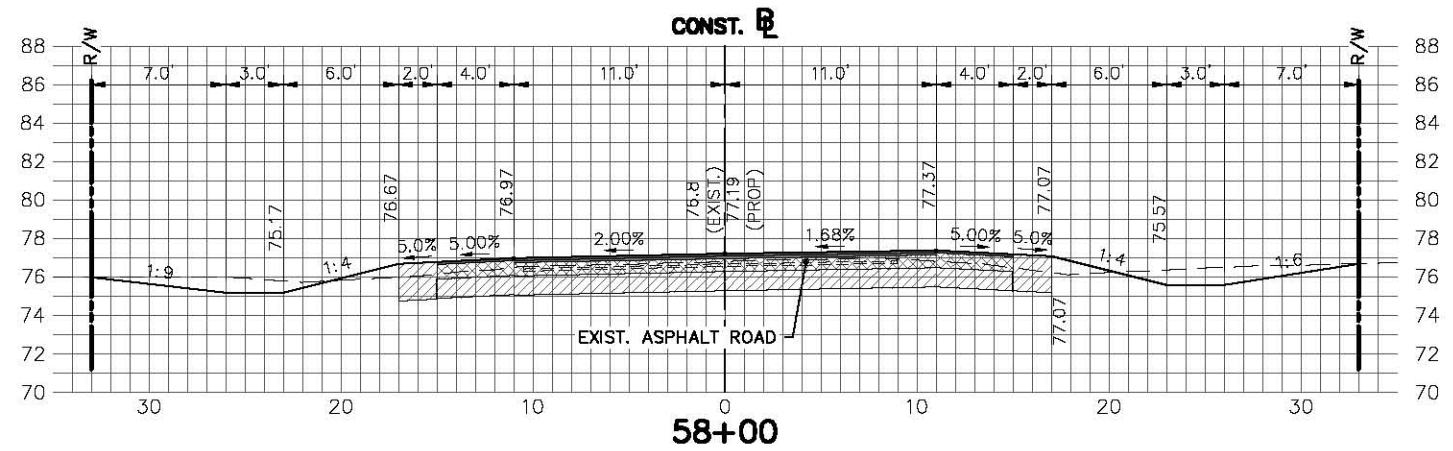
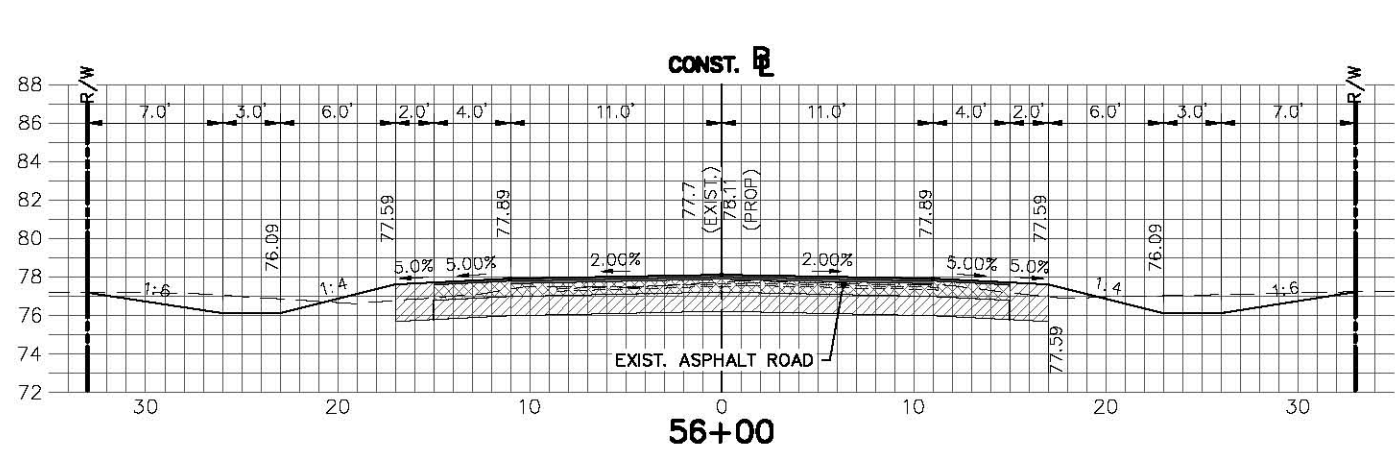


**LAKE JOSEPHINE DRIVE
IMPROVEMENTS
CROSS SECTIONS**

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

PROJECT NO. 13008 REV. 0

SHEET 52 OF 67



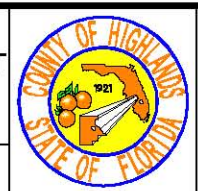
REVISIONS			STATUS	
DATE	BY	DESCRIPTION		
			FOR BID	

DESIGNED BY: ELIUS F. NORTELLUS, P.E.	HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870
DRAWN BY: DOUG NIETUBICZ	
CHECKED BY: KEITH BAKER, E.I.	
IN CHARGE: ELIUS F. NORTELLUS, P.E.	
DATE: 5/19/2016	

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

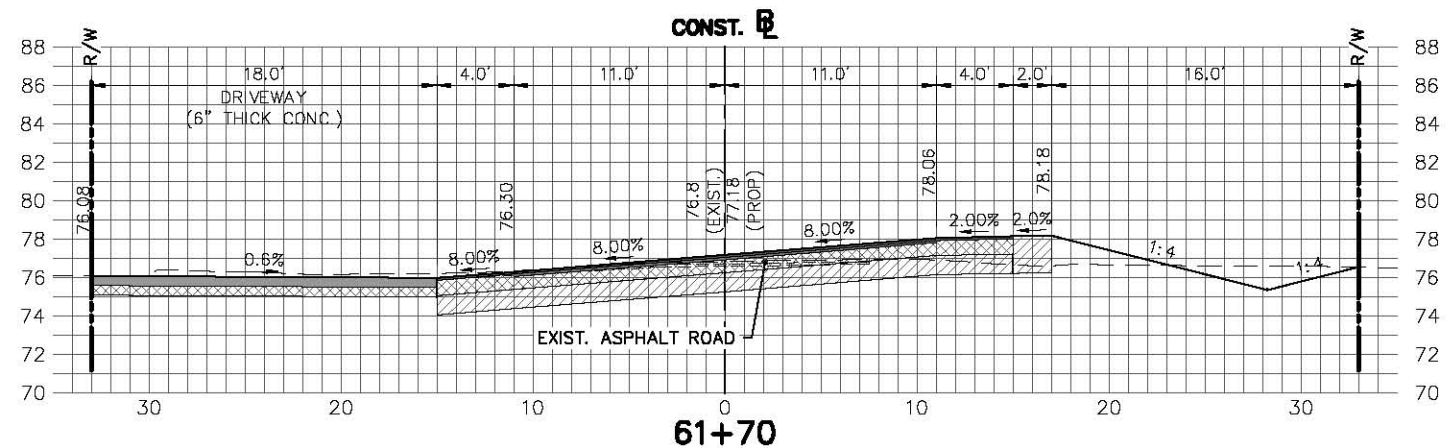
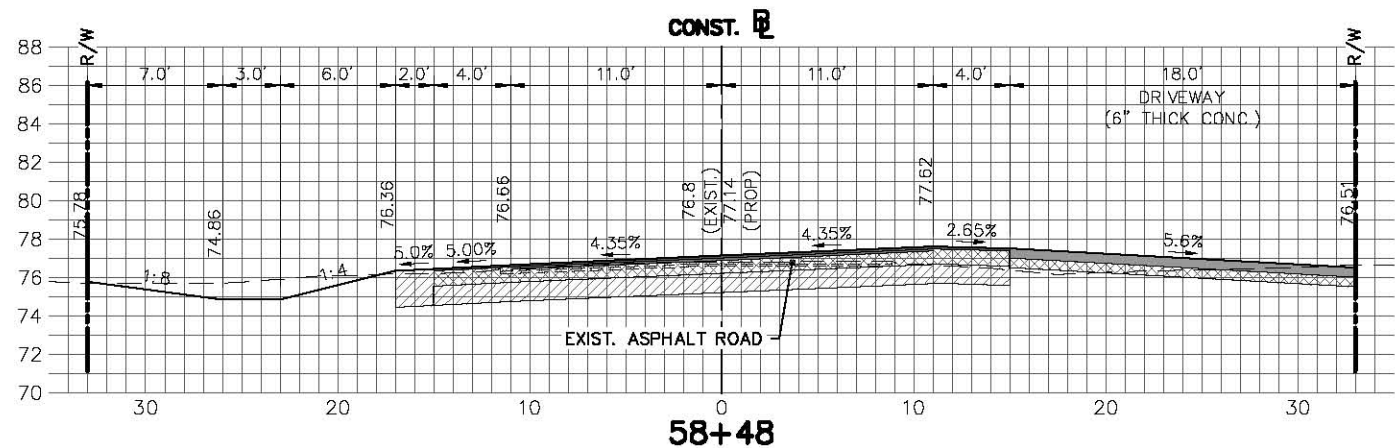
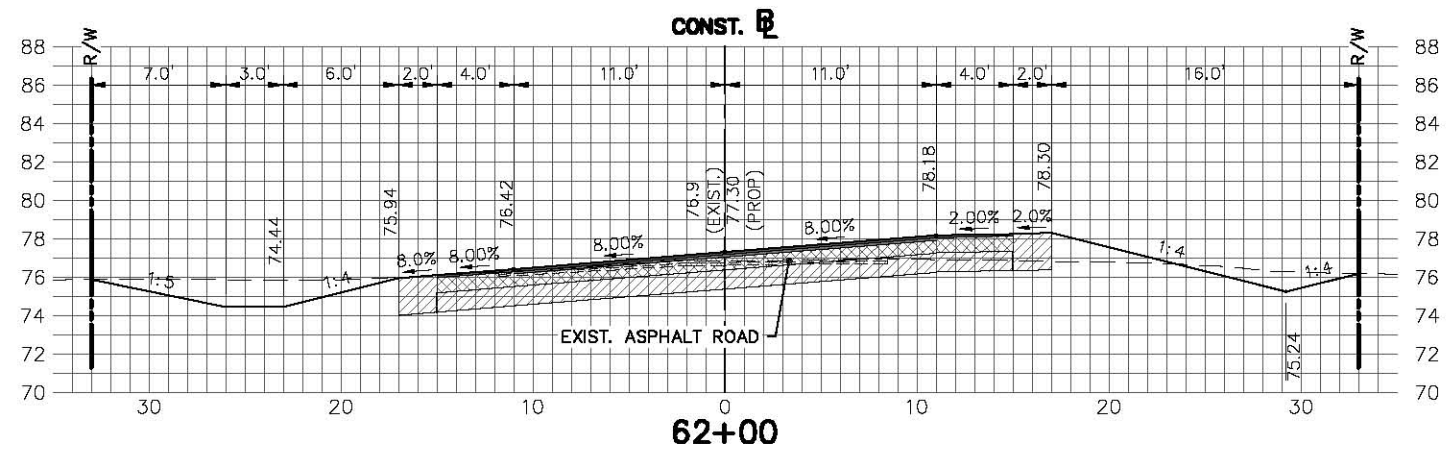
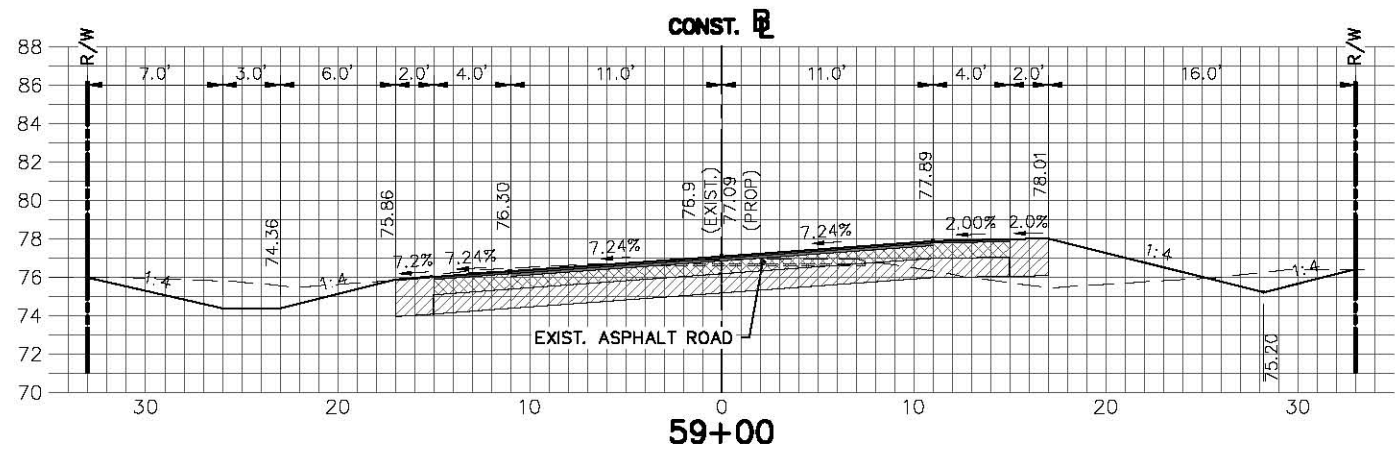
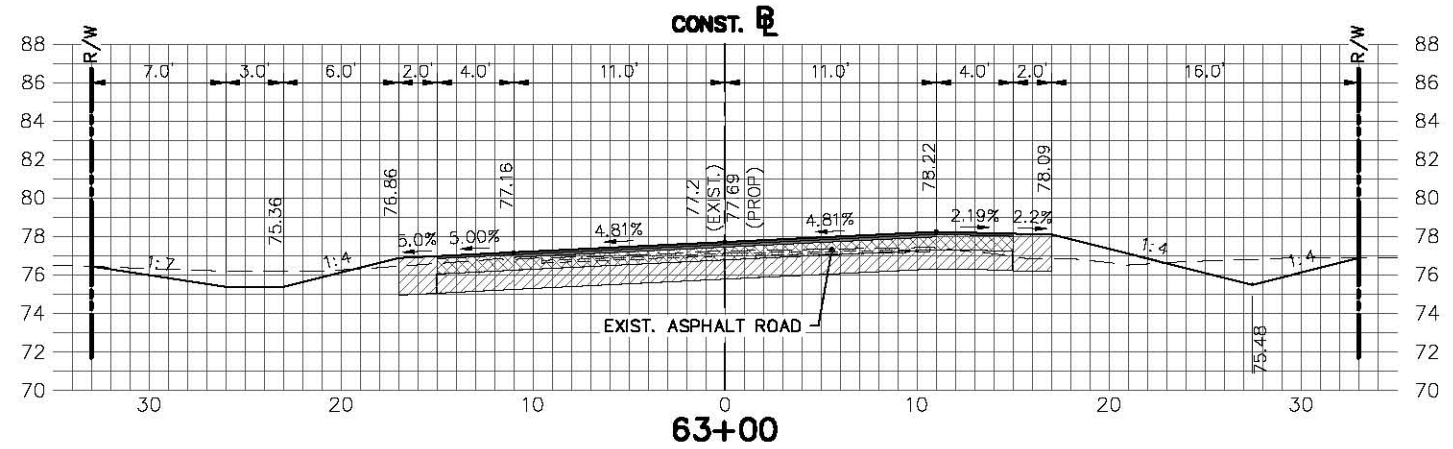
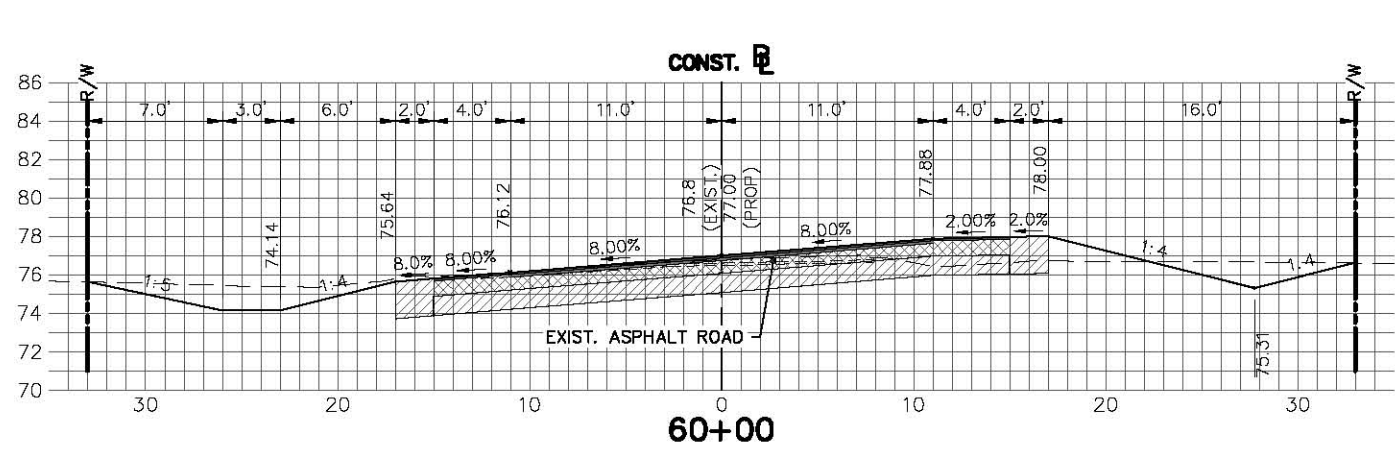
APPROVED BY: ELIUS F. NORTELLUS, P.E.
FLORIDA REGISTRATION NO.: 70092

DATE: _____



**LAKE JOSEPHINE DRIVE
IMPROVEMENTS
CROSS SECTIONS**

SCALE: HORIZ. 1"=10' VERT. 1"=10'	
PROJECT NO. 13008	REV. 0
SHEET 53 OF 67	

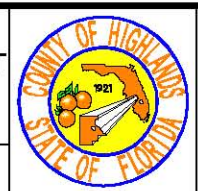


REVISIONS			STATUS	DESIGNED BY: ELIUS F. NORTELLUS, P.E.
DATE	BY	DESCRIPTION		
			FOR BID	DRAWN BY: DOUG NIETUBICZ CHECKED BY: KEITH BAKER, E.I. IN CHARGE: ELIUS F. NORTELLUS, P.E. DATE: 5/19/2016

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

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

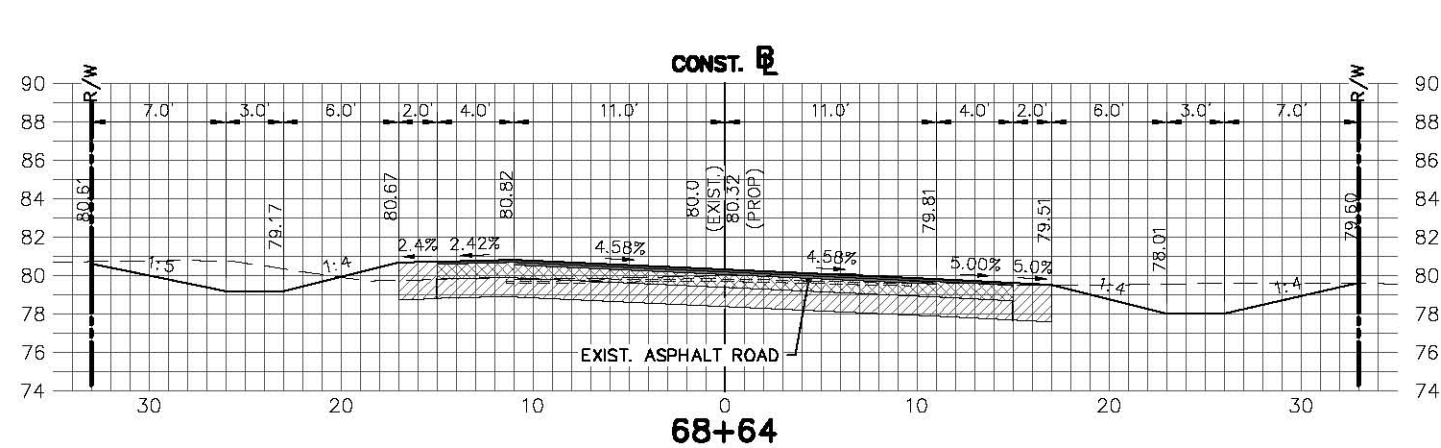
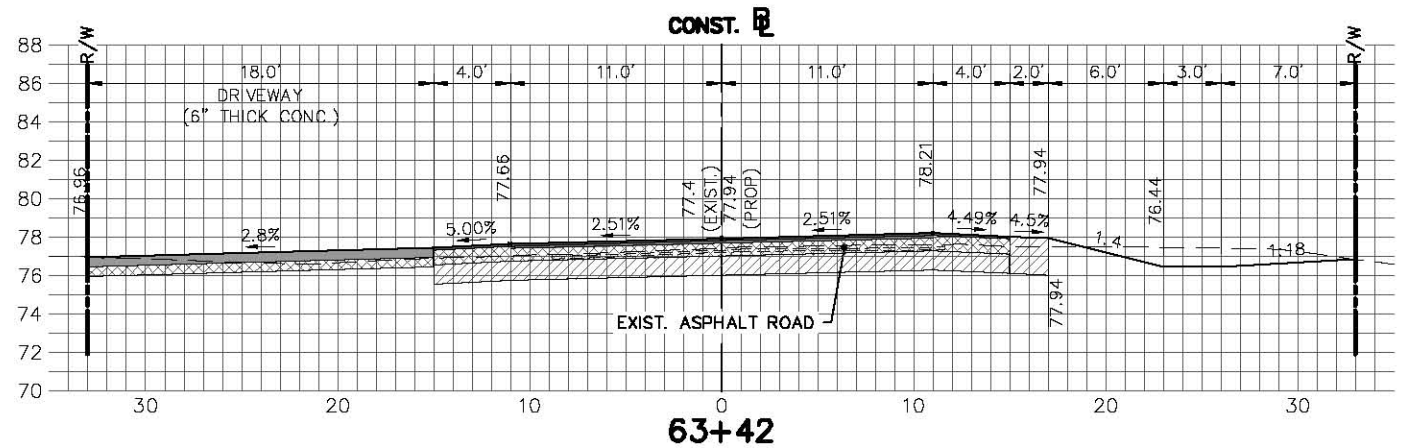
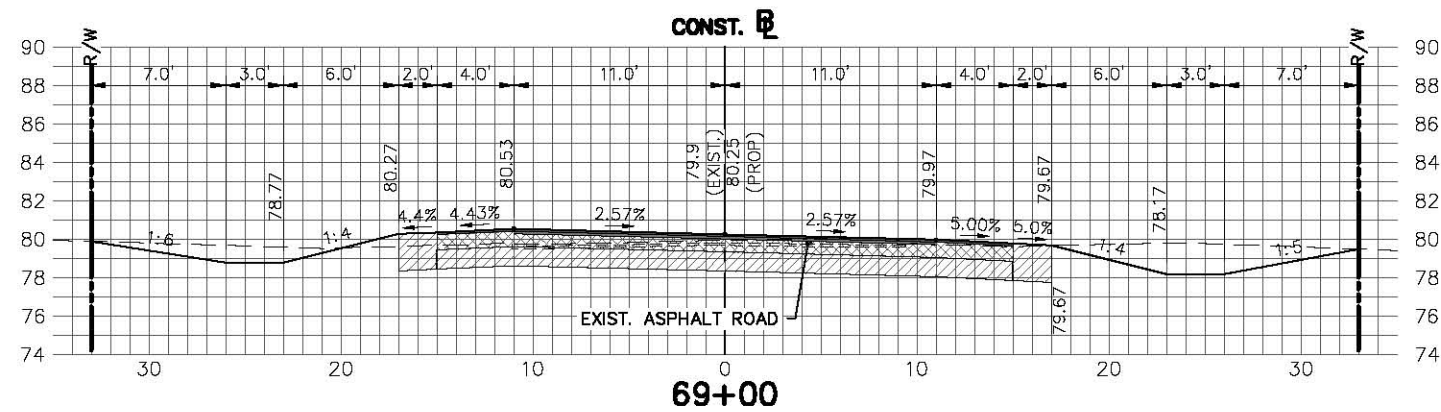
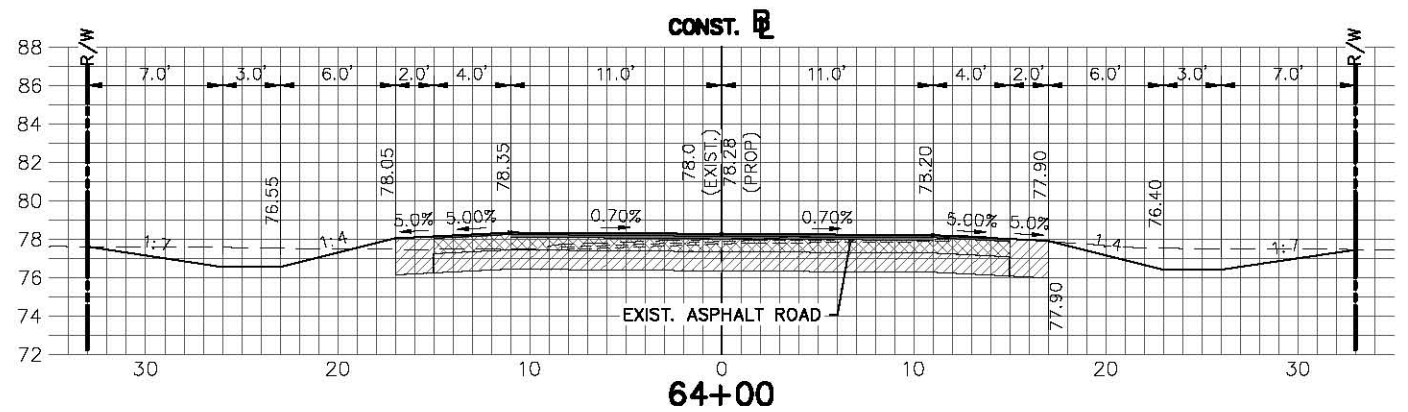
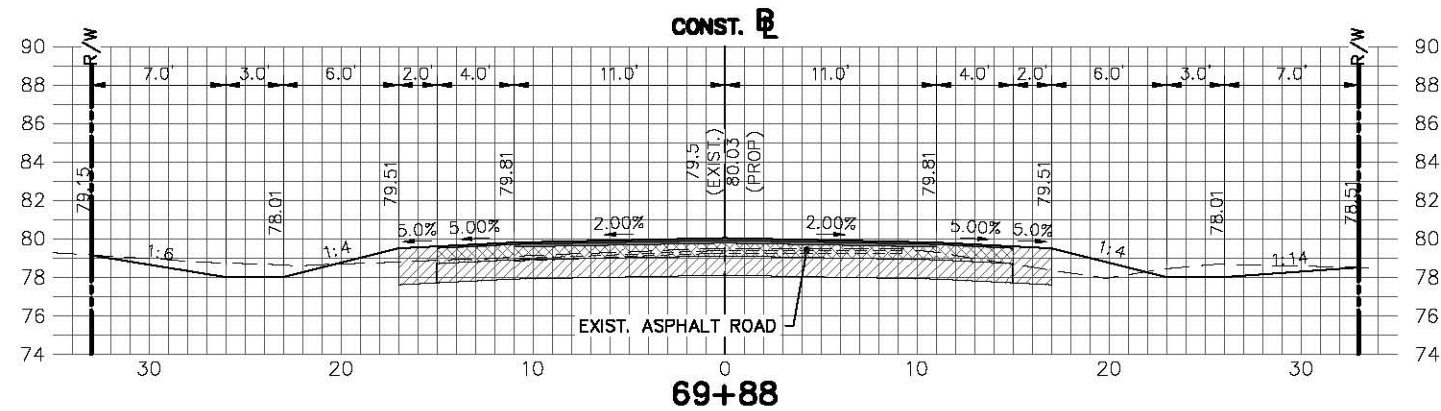
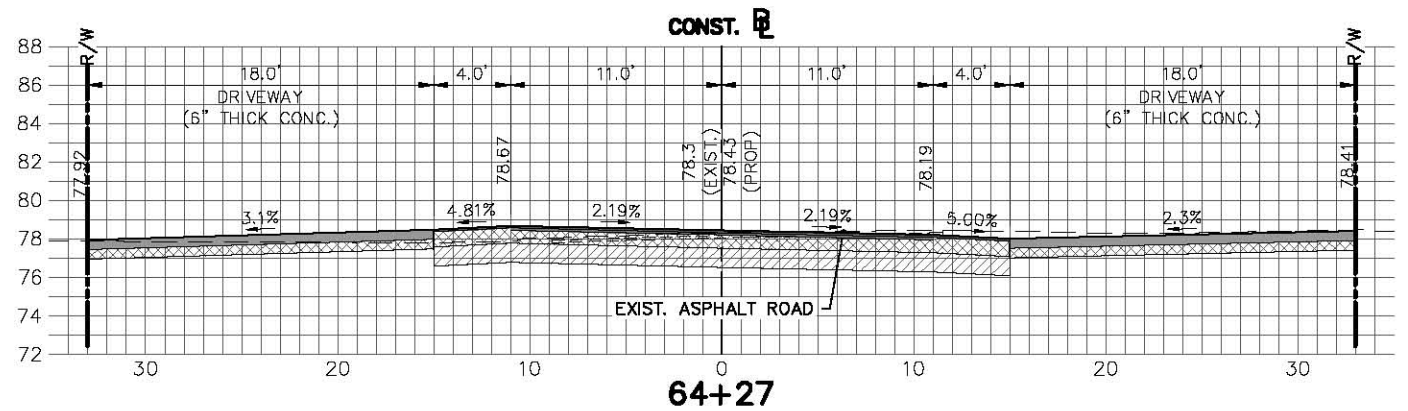
DATE: _____



**LAKE JOSEPHINE DRIVE
IMPROVEMENTS
CROSS SECTIONS**

SCALE: HORIZ. 1"=10' VERT. 1"=10'	
PROJECT NO. 13008	REV. 0
SHEET 54 OF 67	

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), Nietubicz, Douglas Colors As Block Except Group Colors

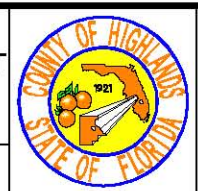


REVISIONS			STATUS	
DATE	BY	DESCRIPTION		
			FOR BID	

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

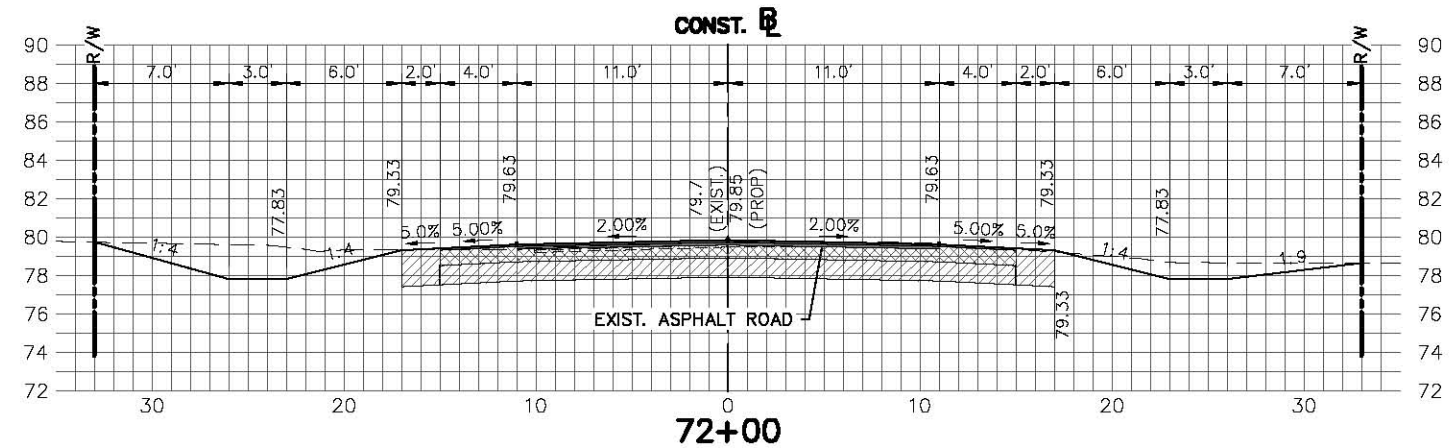
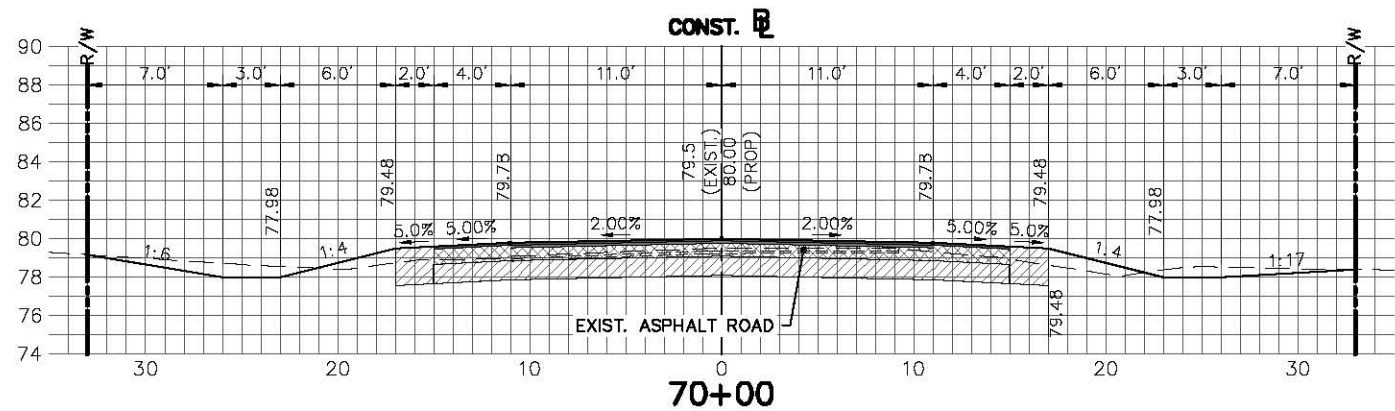
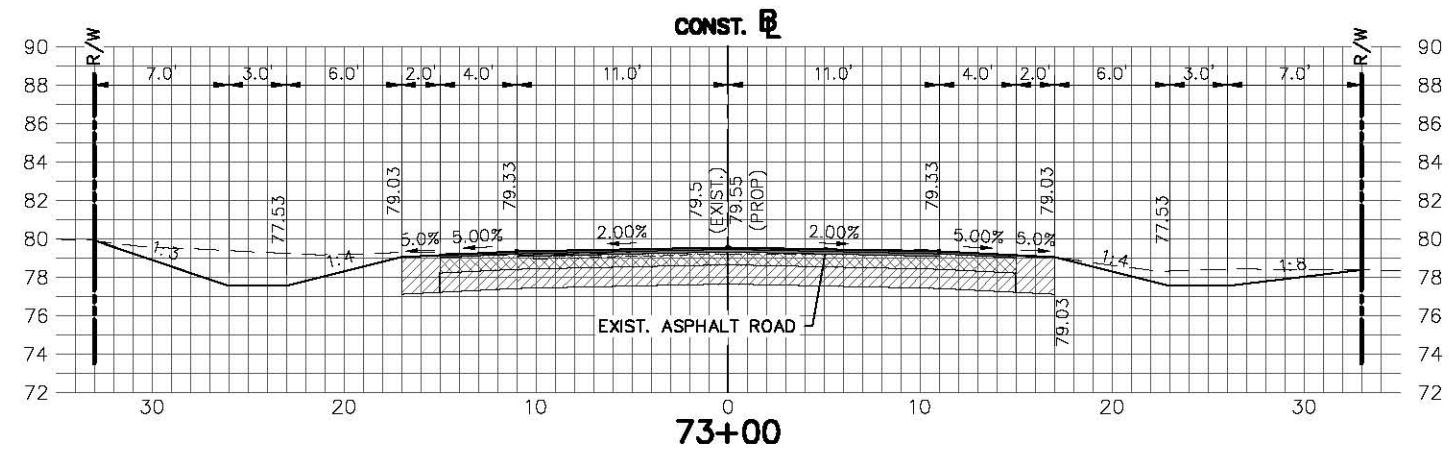
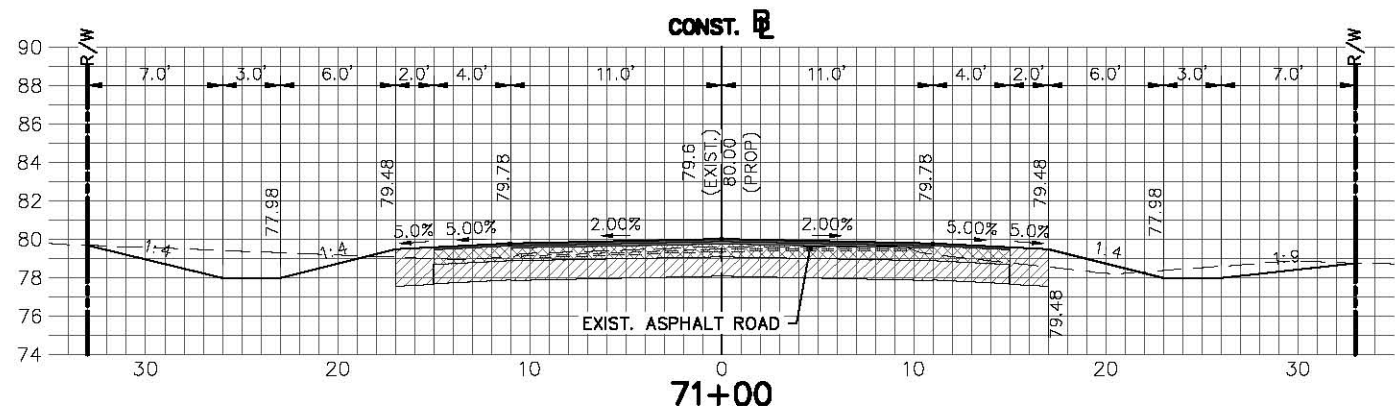
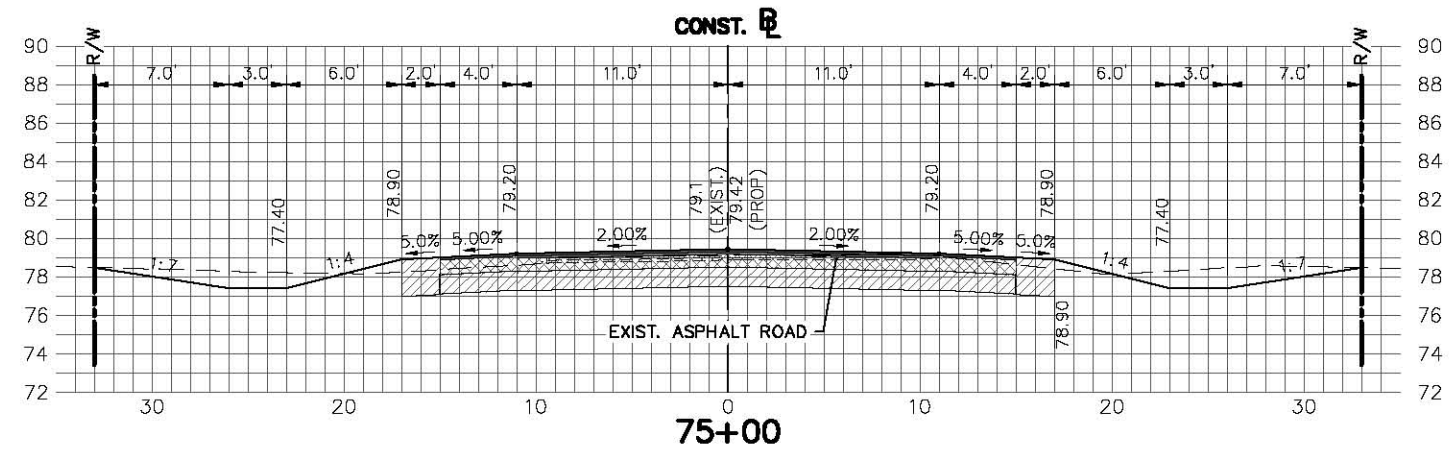
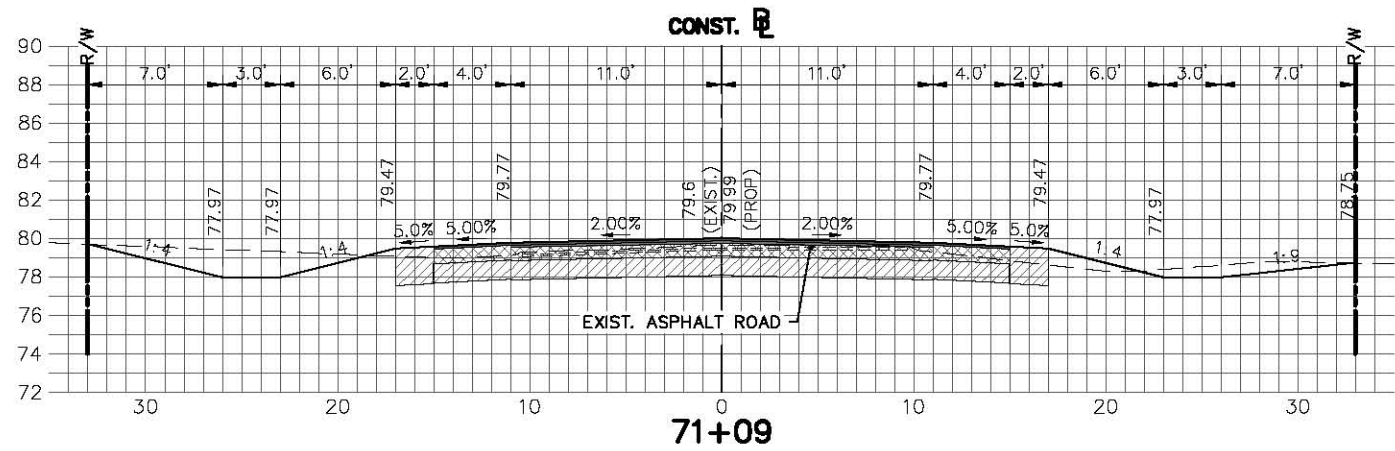
DESIGNED BY: ELIUS F. NORTELLUS, P.E.
DRAWN BY: DOUG METUBCZ
CHECKED BY: KEITH BAKER, E.I.
IN CHARGE: ELIUS F. NORTELLUS, P.E.

APPROVED BY: ELIUS F. NORTELLUS, 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 55 OF 67	

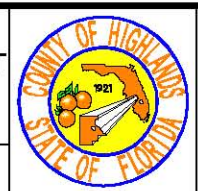


REVISIONS			STATUS	DESIGNED BY: ELIUS F. NORTELLUS, P.E.
DATE	BY	DESCRIPTION		
			FOR BID	DRAWN BY: DOUG NIETUBICZ CHECKED BY: KEITH BAKER, E.I. IN CHARGE: ELIUS F. NORTELLUS, P.E. DATE: 5/19/2016

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

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

DATE: _____

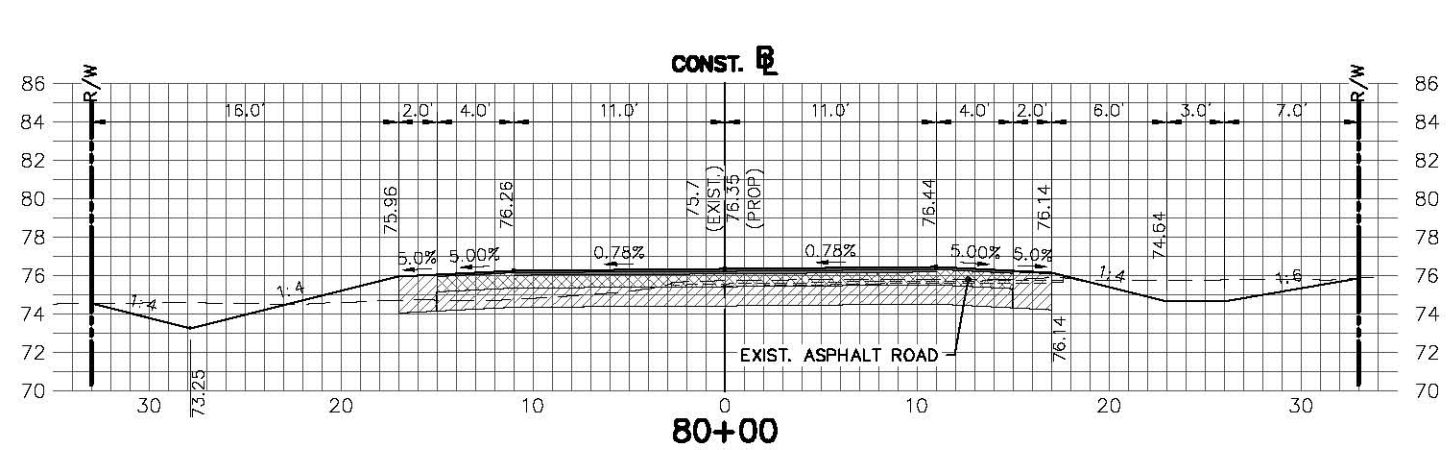
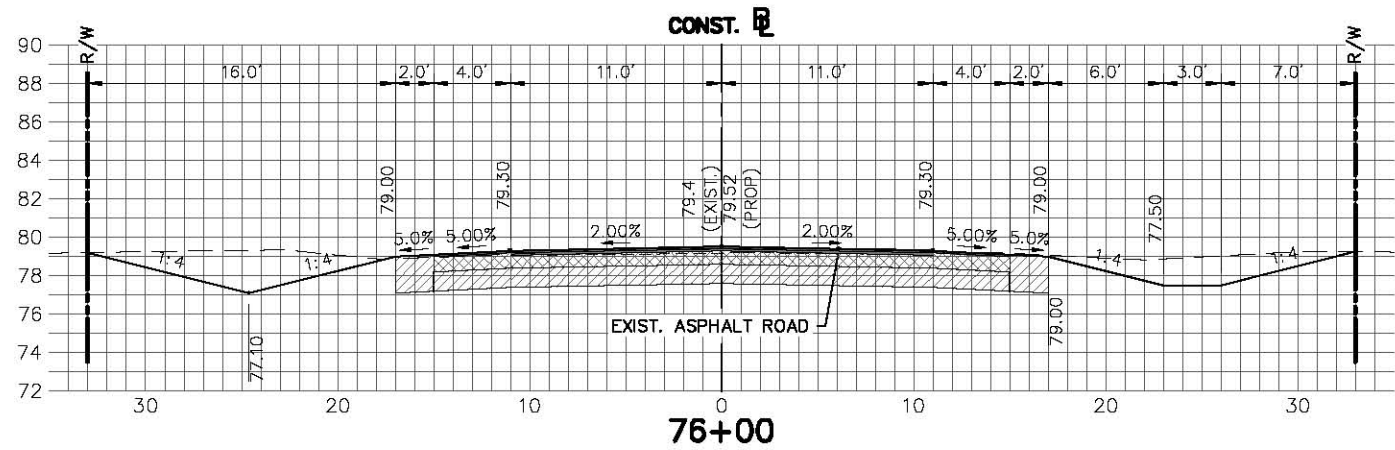
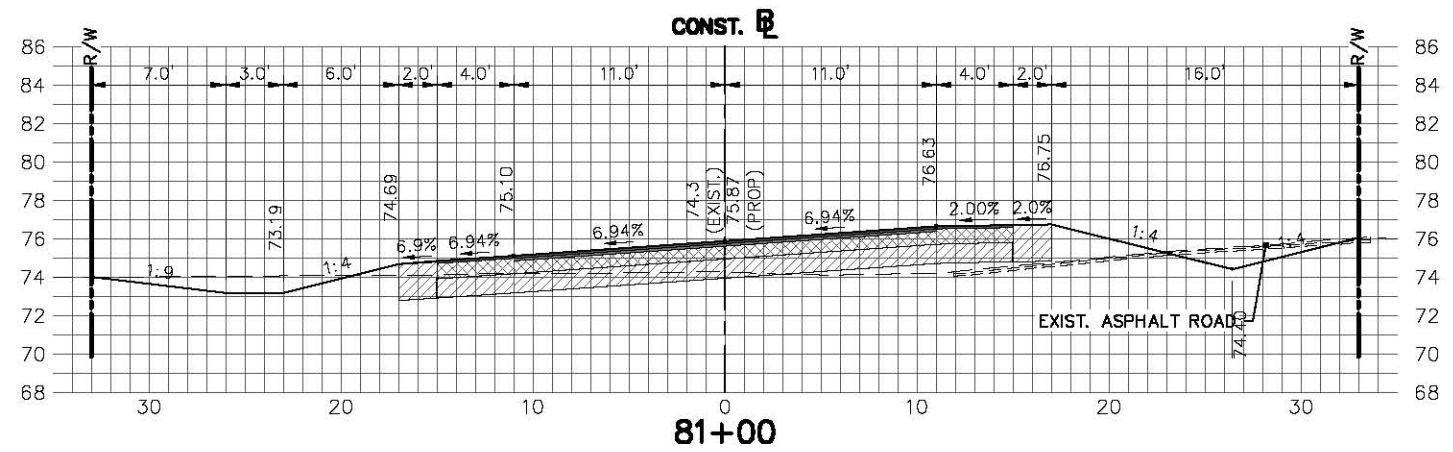
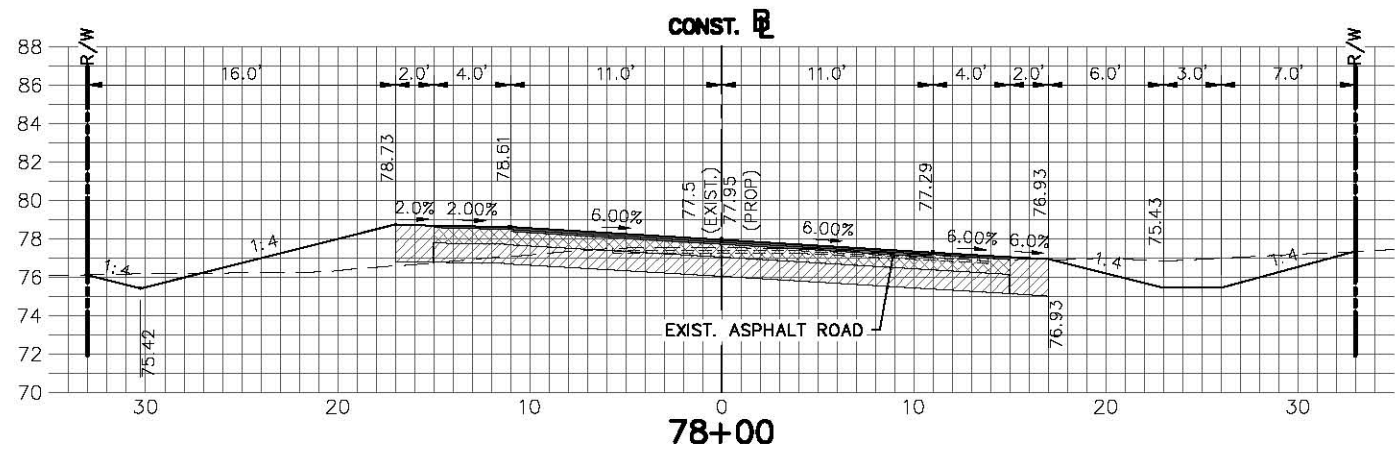
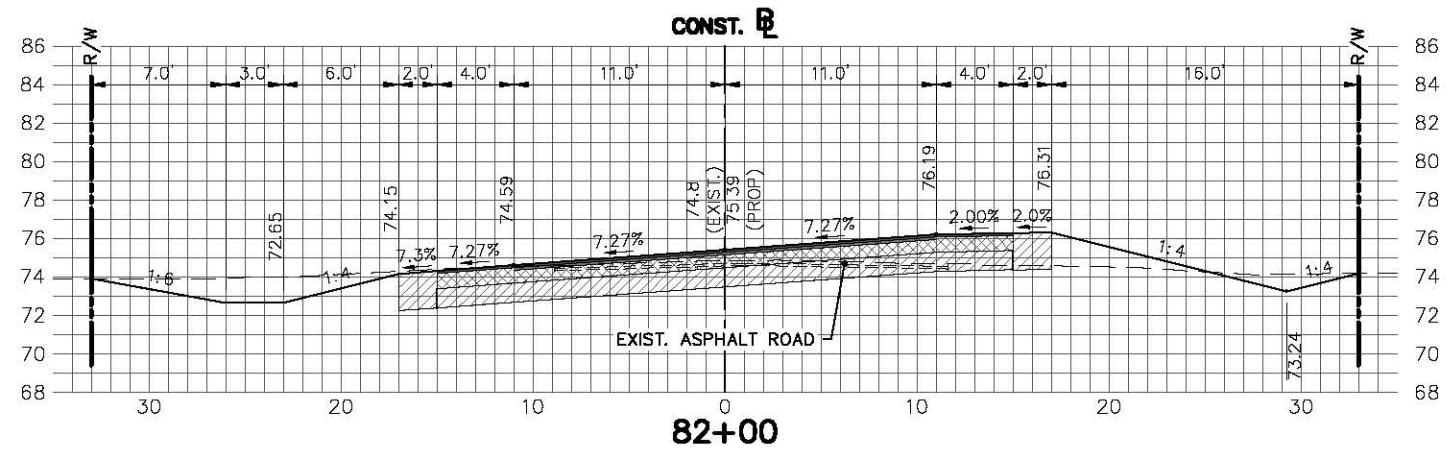
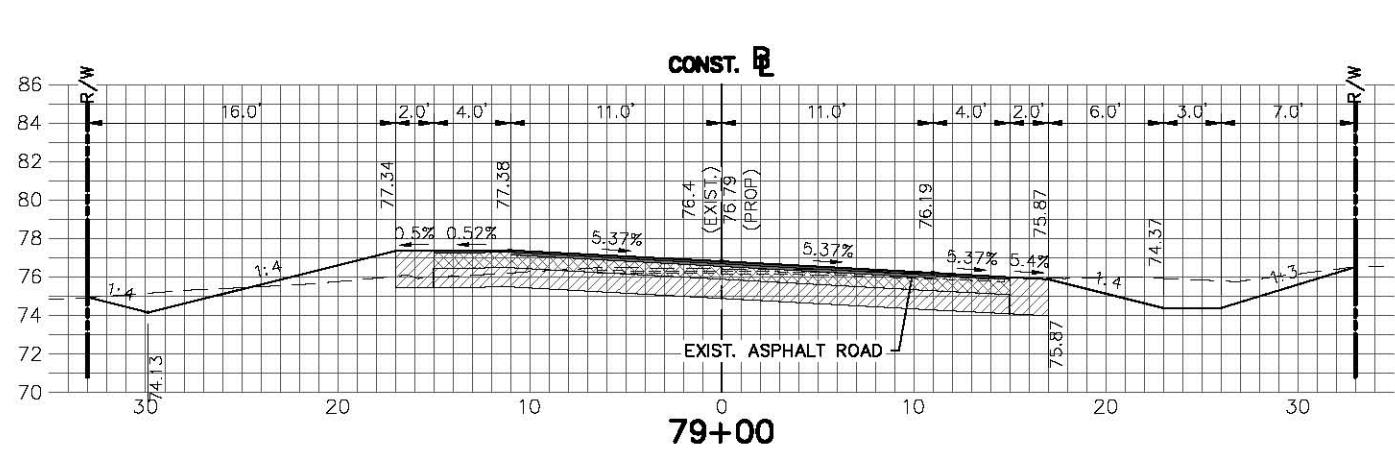


**LAKE JOSEPHINE DRIVE
IMPROVEMENTS
CROSS SECTIONS**

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

PROJECT NO. 13008 REV. 0

SHEET 56 OF 67



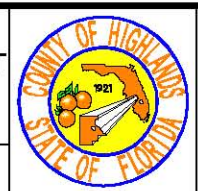
REVISIONS			STATUS	
DATE	BY	DESCRIPTION		
			FOR BID	

DESIGNED BY: ELIUS F. NORTELLUS, P.E.	HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870
DRAWN BY: DOUG NIETUBICZ	
CHECKED BY: KEITH BAKER, E.I.	
IN CHARGE: ELIUS F. NORTELLUS, P.E.	
DATE: 5/13/2016	

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

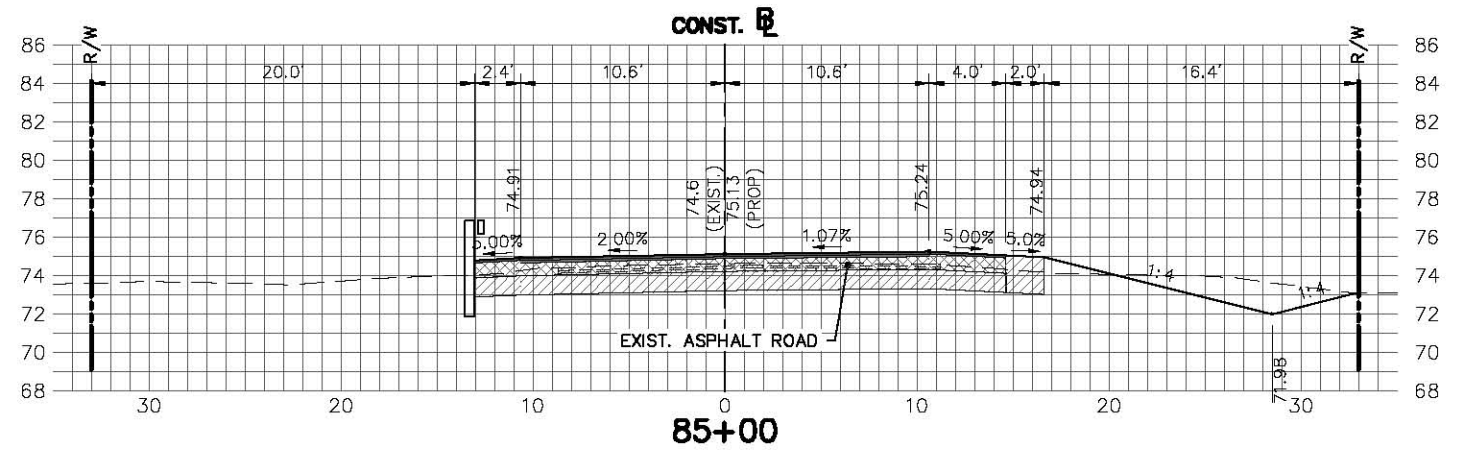
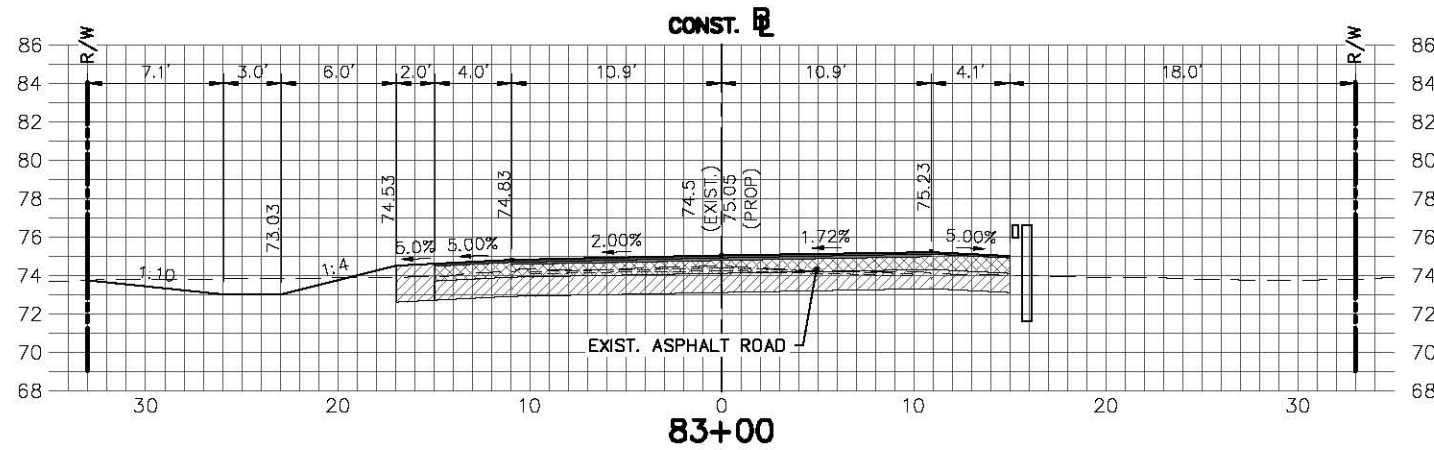
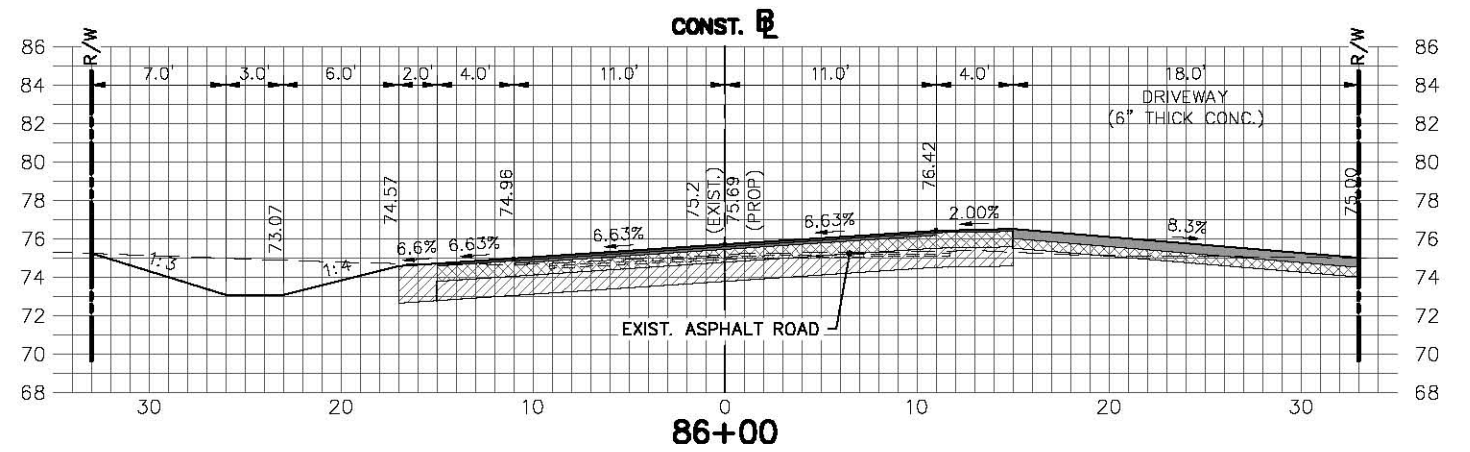
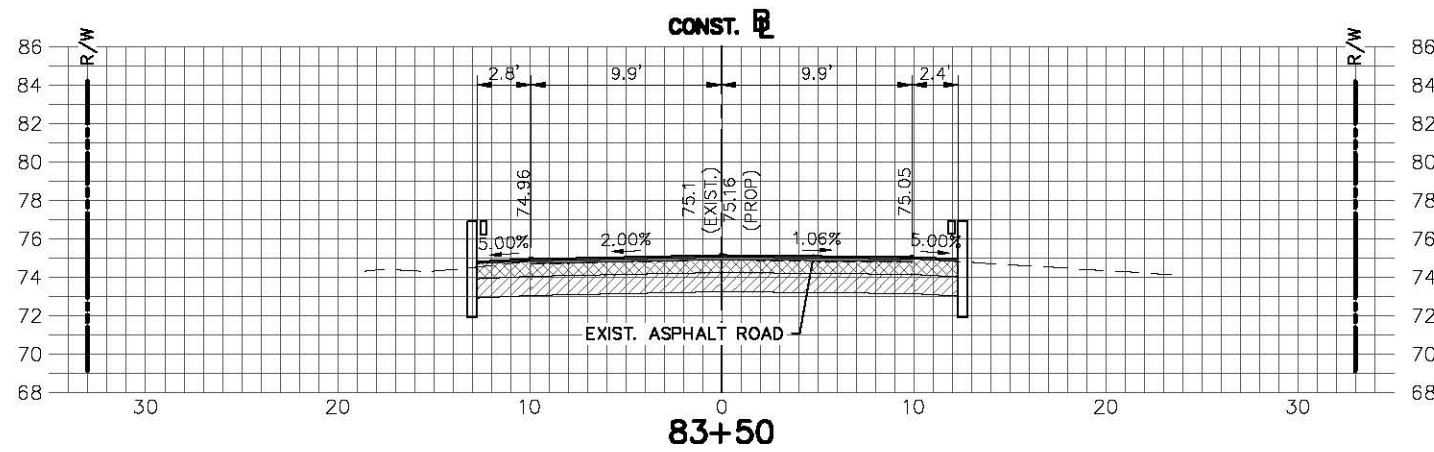
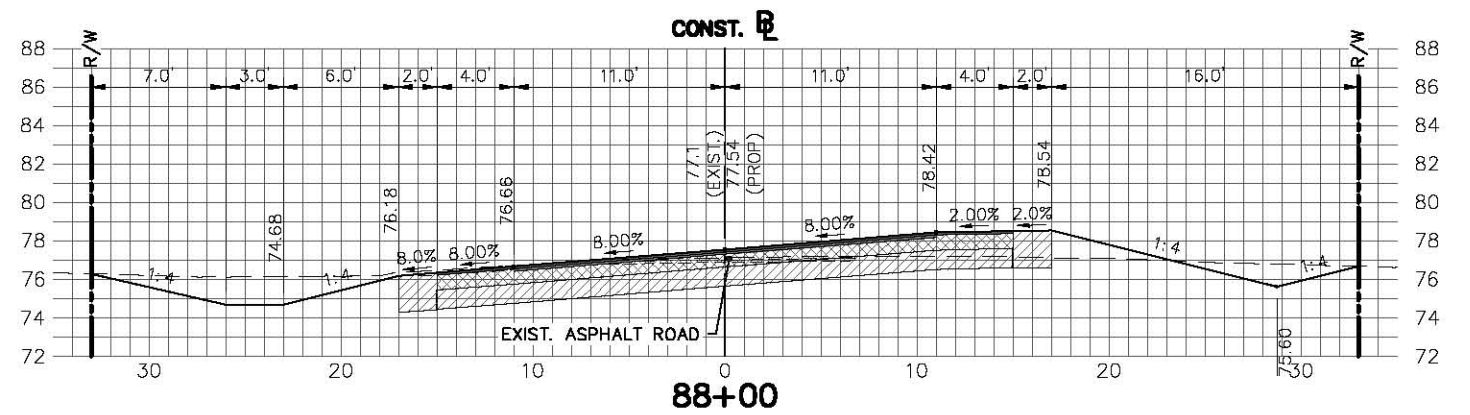
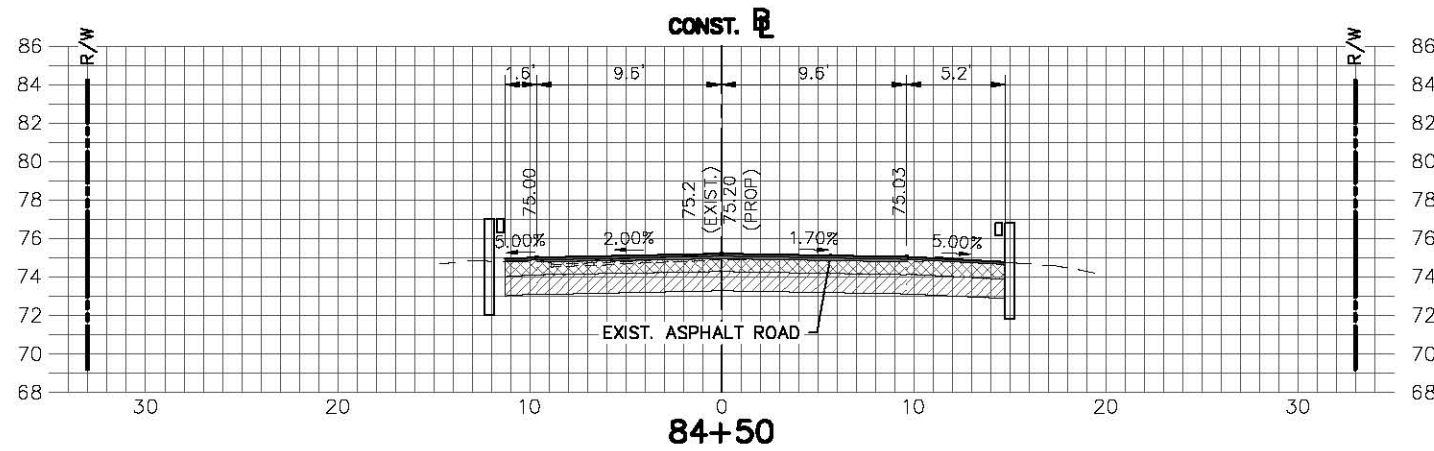
APPROVED BY: ELIUS F. NORTELLUS, P.E.
FLORIDA REGISTRATION NO.: 70092

DATE:



**LAKE JOSEPHINE DRIVE
IMPROVEMENTS
CROSS SECTIONS**

SCALE: HORIZ. 1"=10' VERT. 1"=10'	
PROJECT NO. 13008	REV. 0
SHEET 57 OF 67	

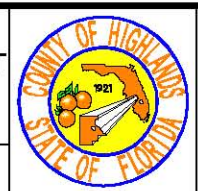


REVISIONS			STATUS	DESIGNED BY: ELIUS F. NORTELLUS, P.E.
DATE	BY	DESCRIPTION		
			FOR BID	DRAWN BY: DOUG NIETUBCZ
				CHECKED BY: KEITH BAKER, E.I.
				IN CHARGE: ELIUS F. NORTELLUS, P.E.
				DATE: 5/19/2016

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

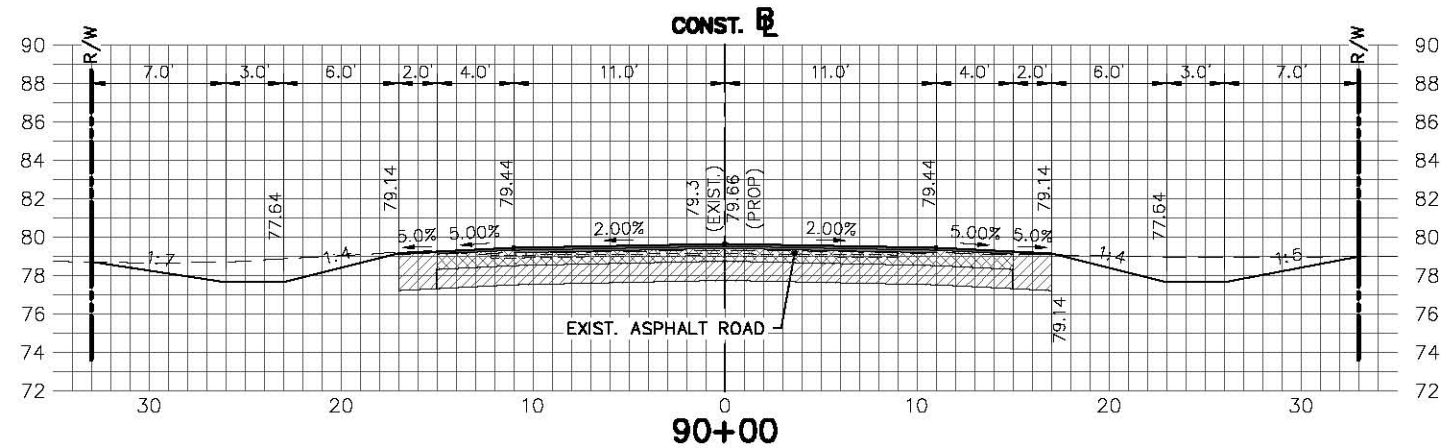
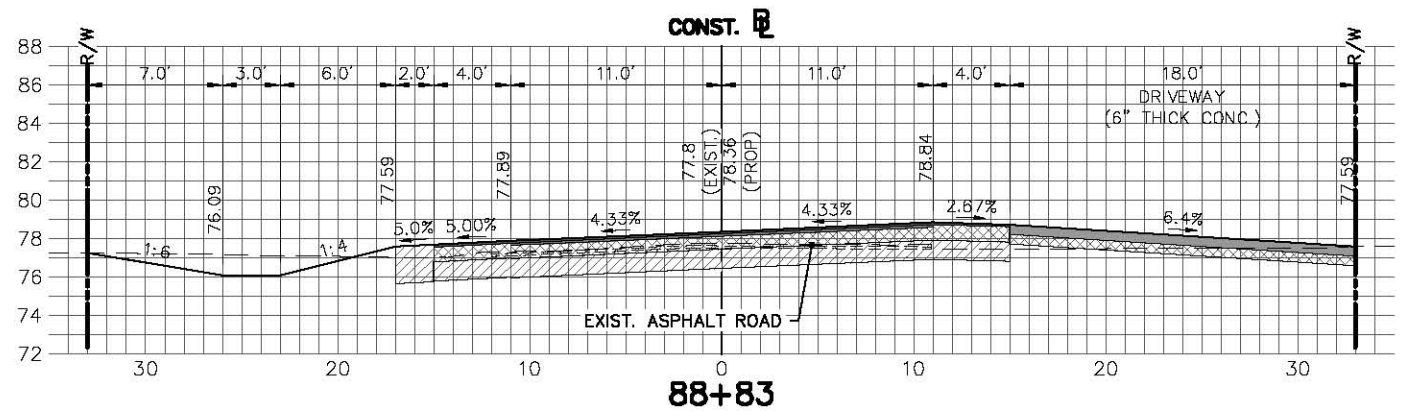
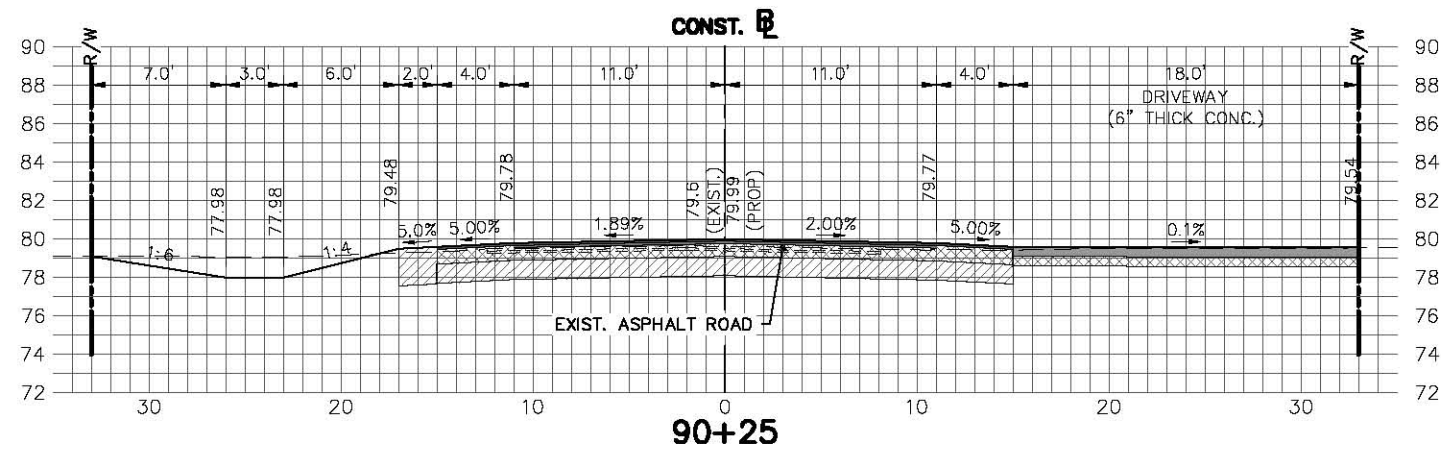
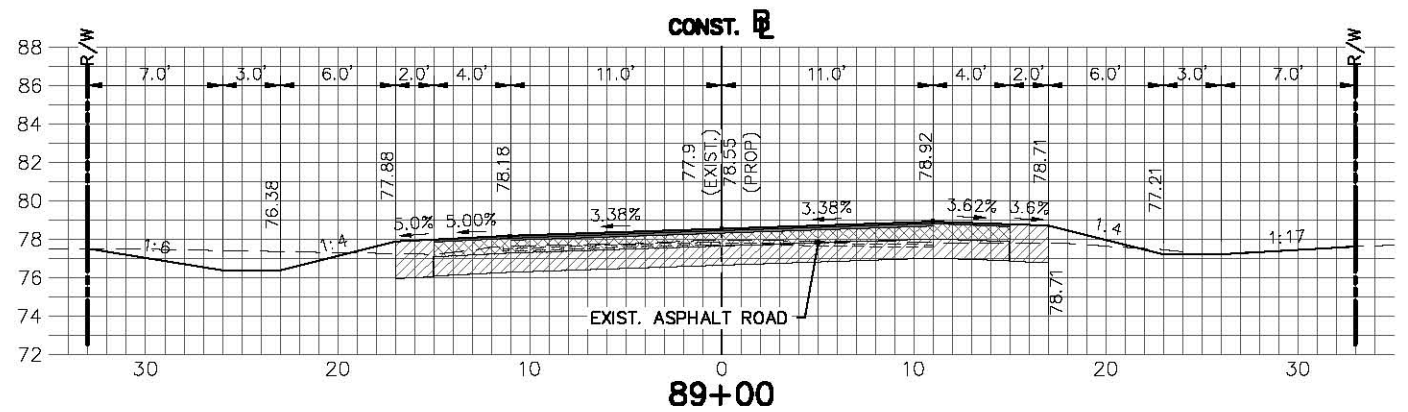
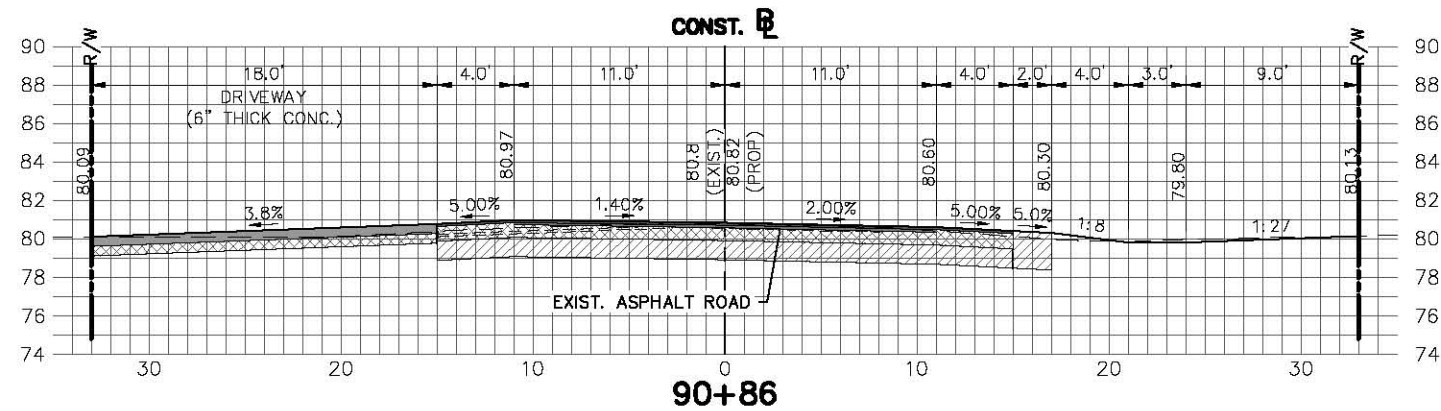
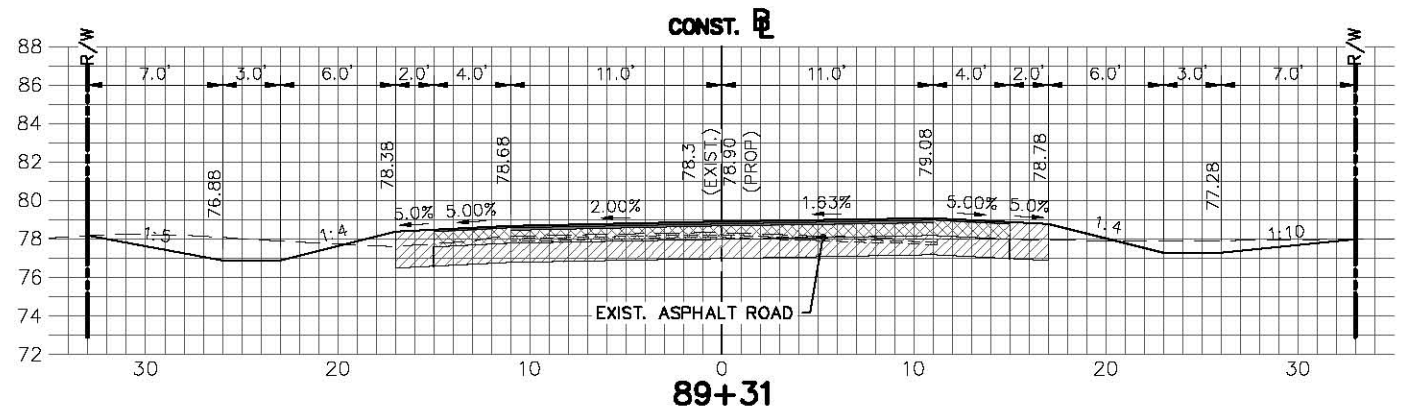
APPROVED BY: ELIUS F. NORTELLUS, P.E.
 FLORIDA REGISTRATION NO.: 70092

DATE:



LAKE JOSEPHINE DRIVE
IMPROVEMENTS
CROSS SECTIONS

SCALE: HORIZ. 1"=10' VERT. 1"=10'	
PROJECT NO. 13008	REV. 0
SHEET 58 OF 67	



REVISIONS		
DATE	BY	DESCRIPTION

STATUS
FOR BID

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

DRAWN BY:
DOUG NIETUBICZ

CHECKED BY:
KEITH BAKER, E.I.

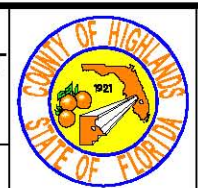
IN CHARGE:
ELIUS F. NORTELLUS, P.E.

DATE:
5/19/2016

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

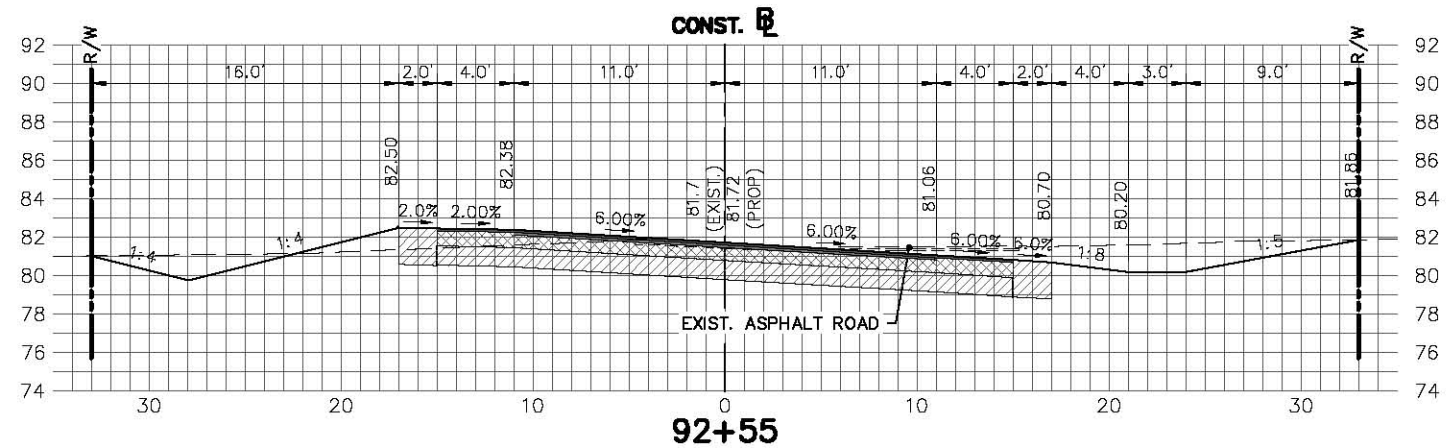
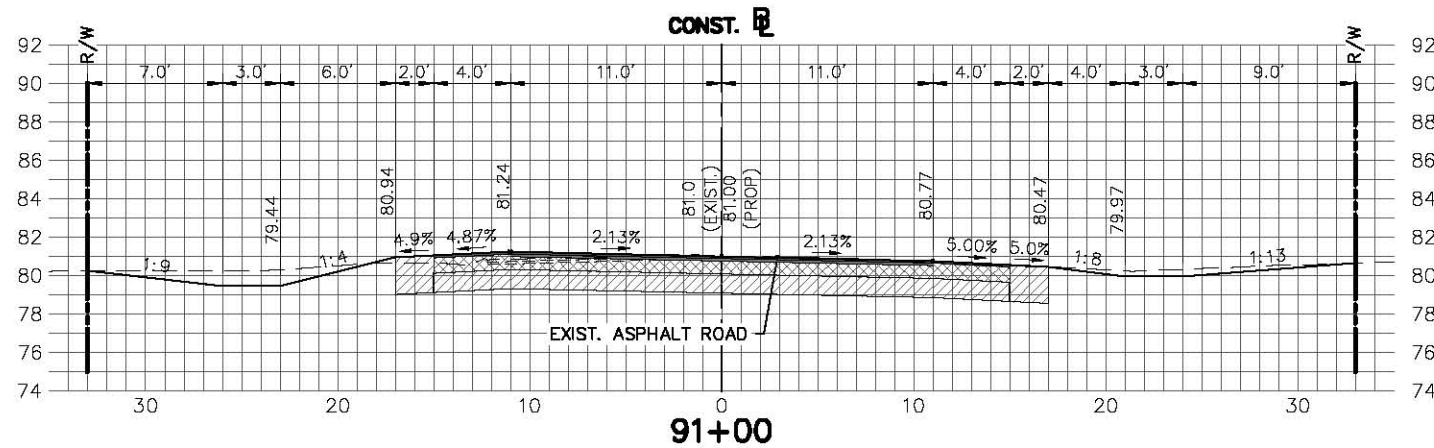
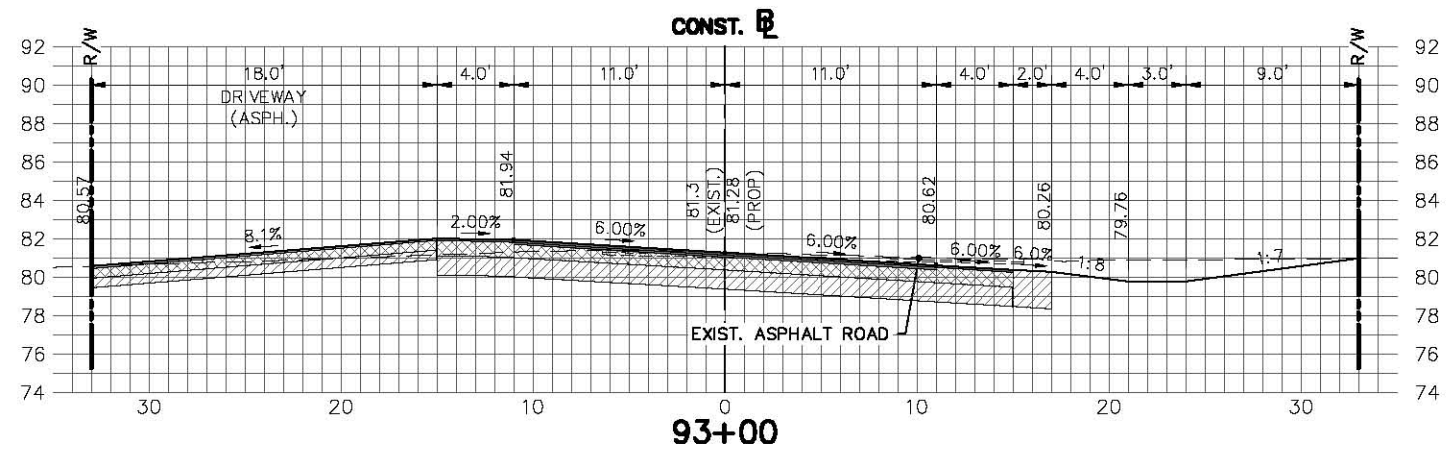
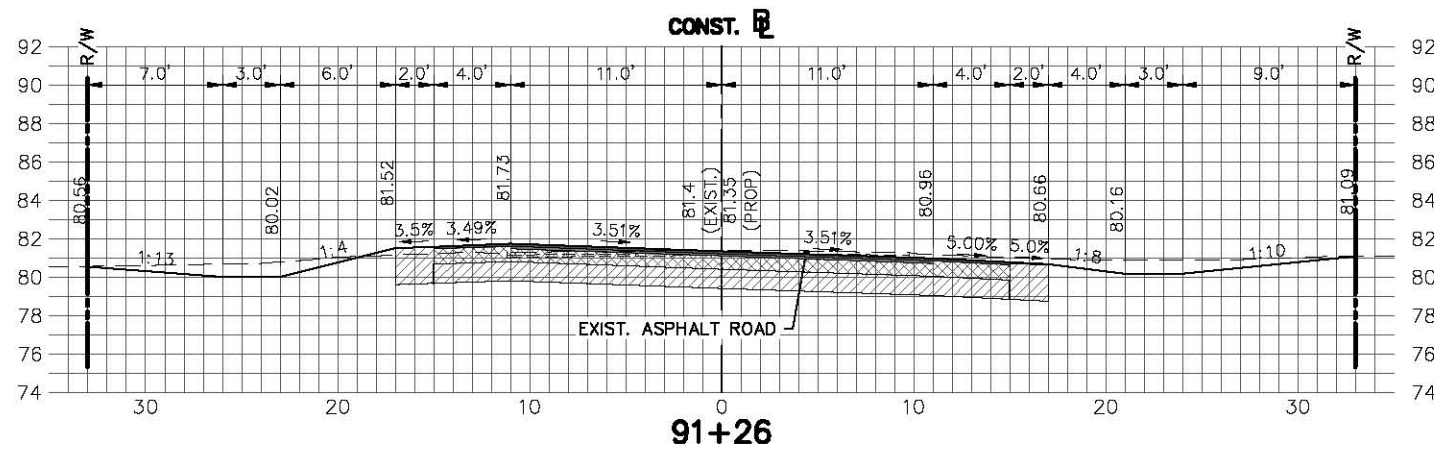
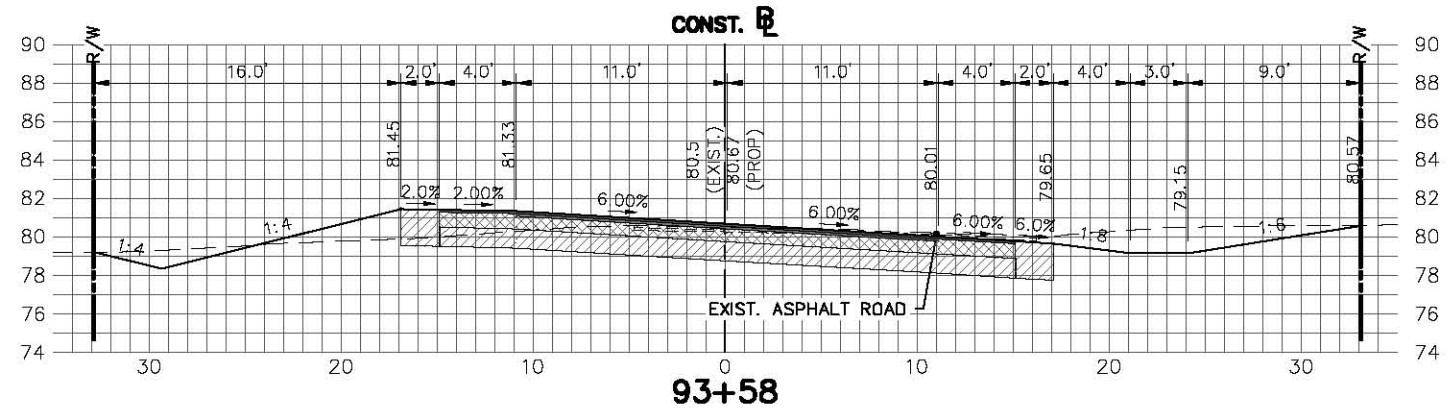
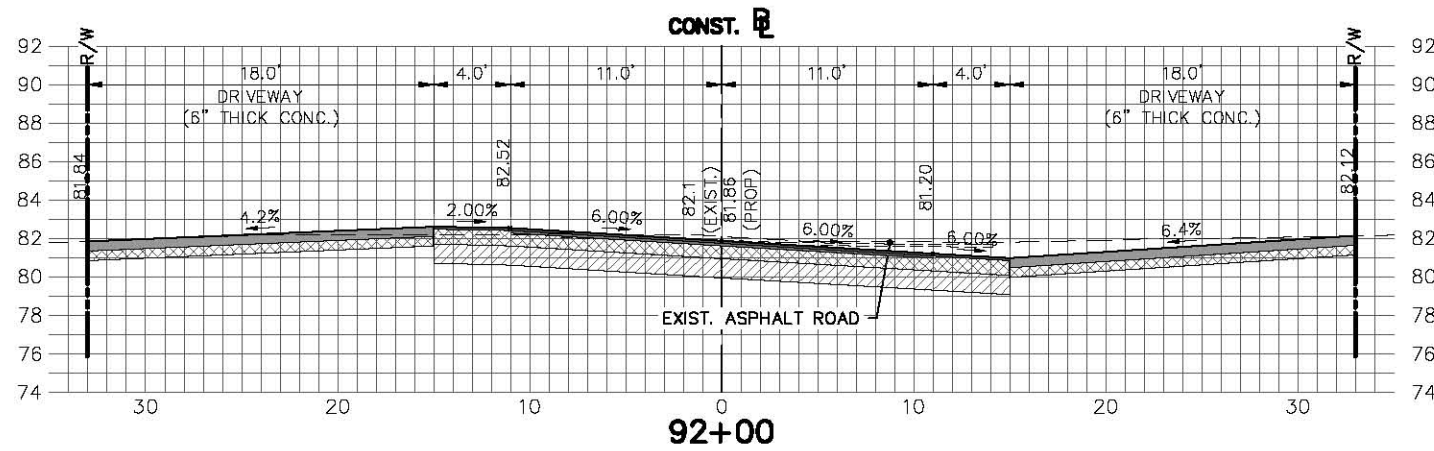
APPROVED BY: ELIUS F. NORTELLUS, P.E.
FLORIDA REGISTRATION NO.: 70092

DATE:



**LAKE JOSEPHINE DRIVE
IMPROVEMENTS
CROSS SECTIONS**

SCALE: HORIZ. 1"=10' VERT. 1"=10'	
PROJECT NO. 13008	REV. 0
SHEET 59 OF 67	

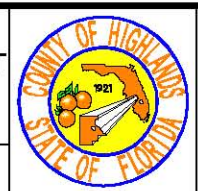


REVISIONS			STATUS	DESIGNED BY: ELIUS F. NORTELLUS, P.E.
DATE	BY	DESCRIPTION		
			FOR BID	DRAWN BY: DOUG NIETUBICZ CHECKED BY: KEITH BAKER, E.I. IN CHARGE: ELIUS F. NORTELLUS, P.E. DATE: 5/19/2016

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

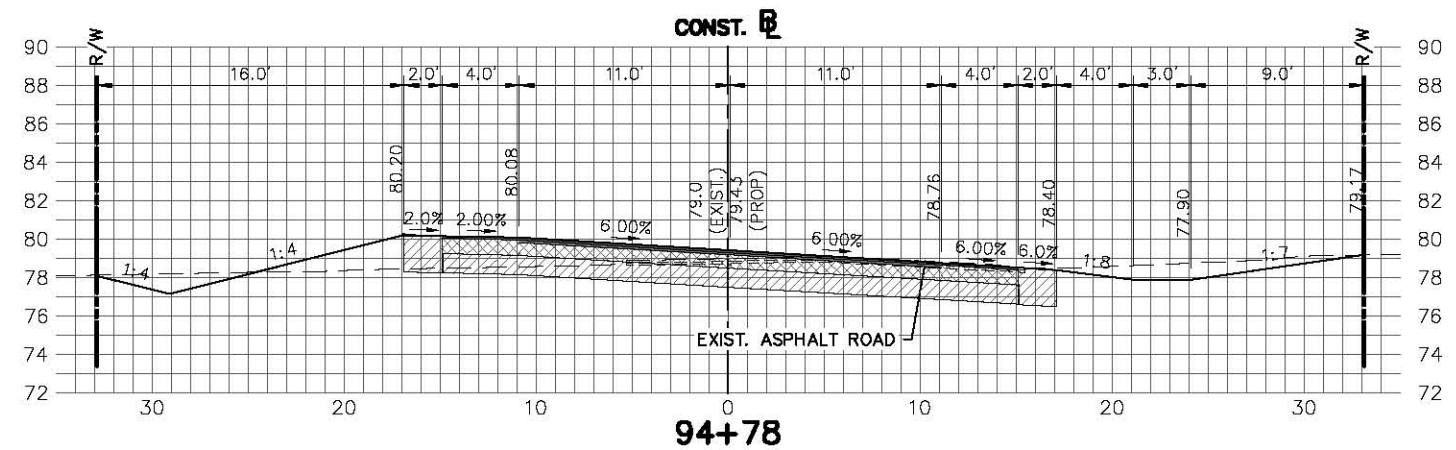
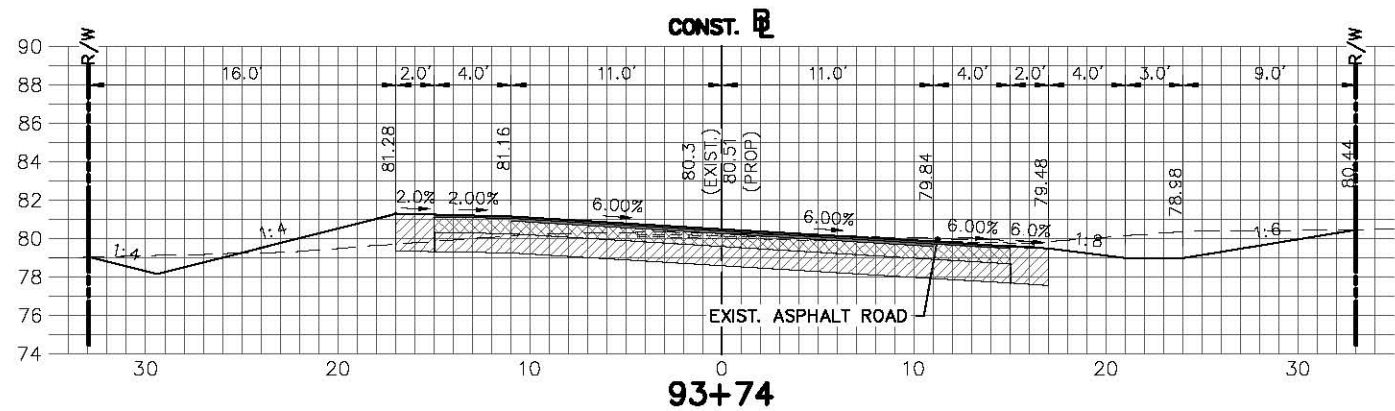
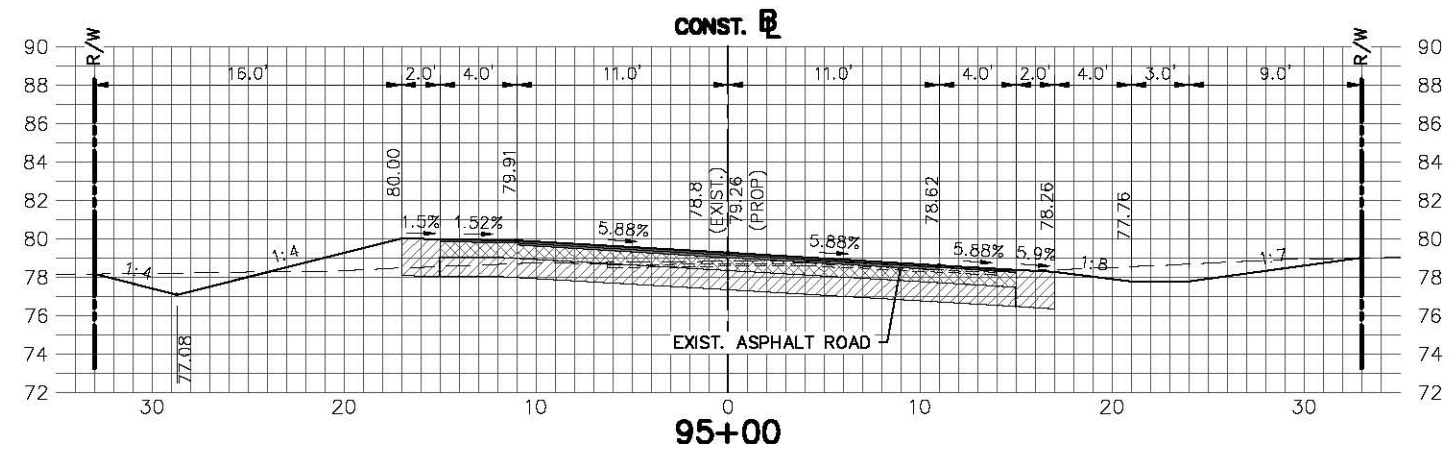
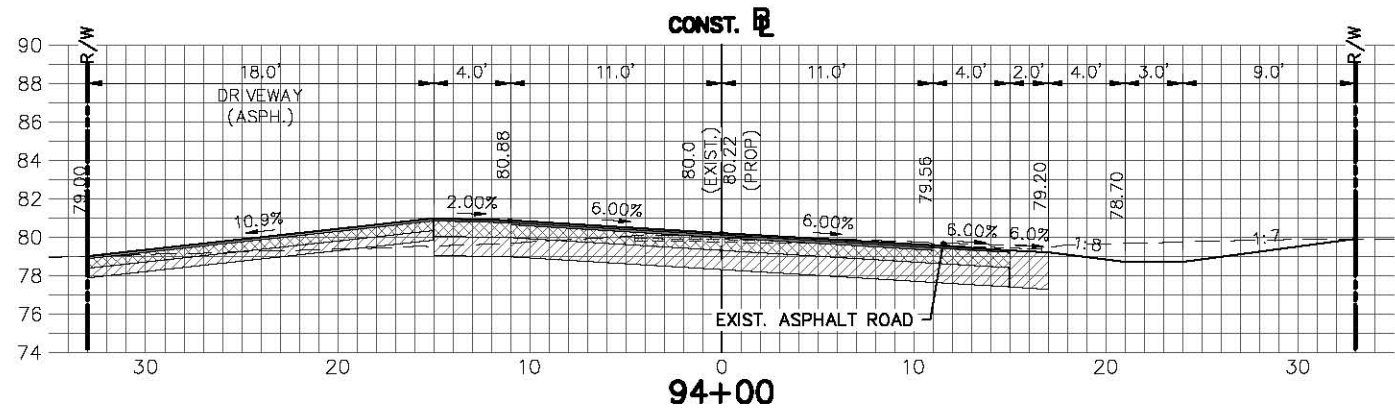
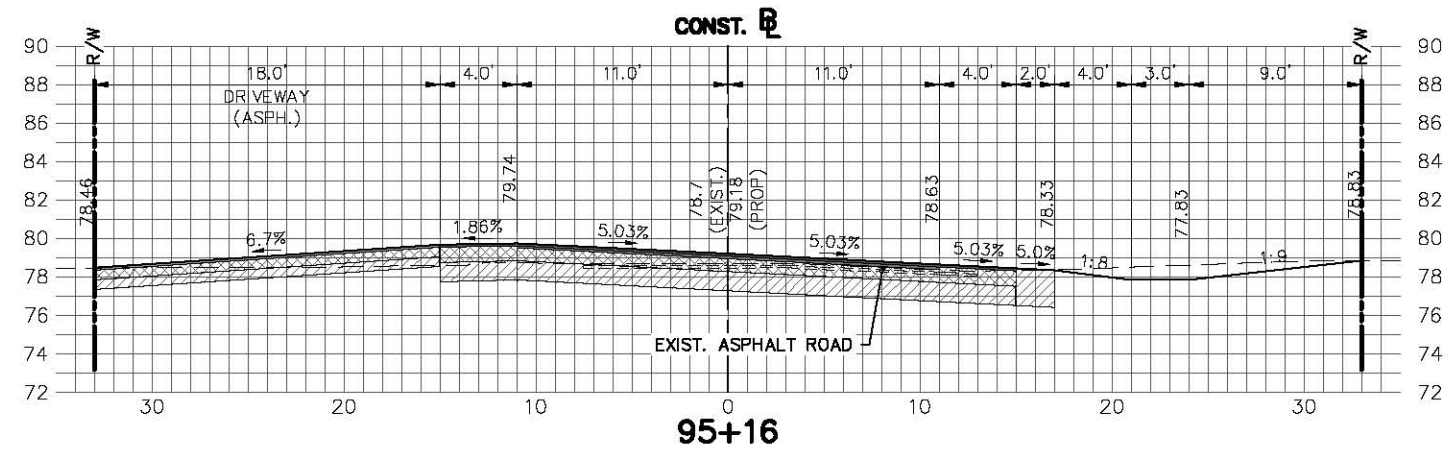
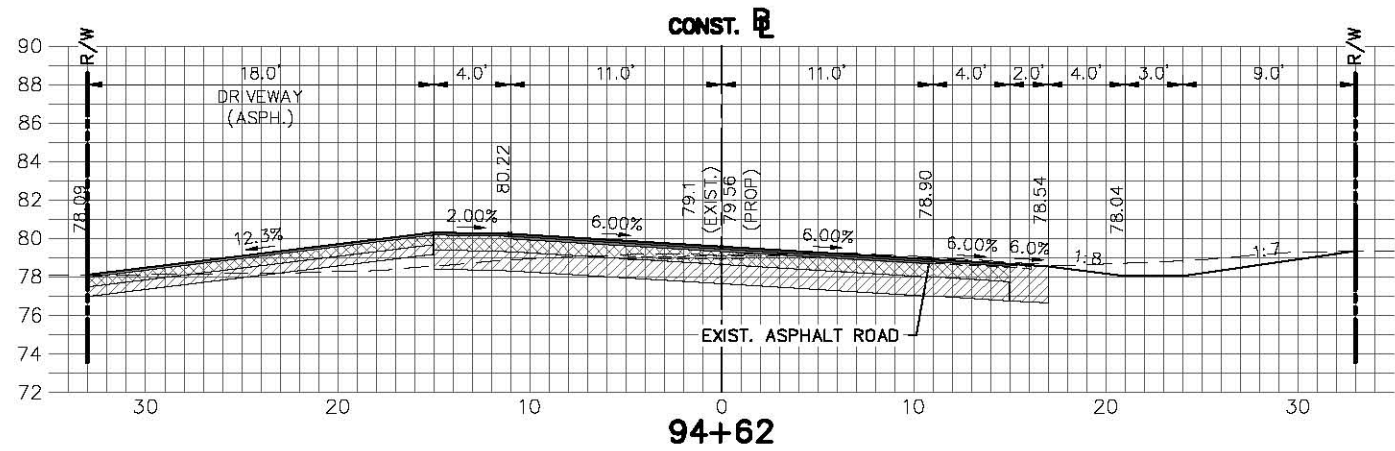
APPROVED BY: ELIUS F. NORTELLUS, P.E.
FLORIDA REGISTRATION NO.: 70092

DATE: _____



**LAKE JOSEPHINE DRIVE
IMPROVEMENTS
CROSS SECTIONS**

SCALE: HORIZ. 1"=10' VERT. 1"=10'	
PROJECT NO. 13008	REV. 0
SHEET 60 OF 67	



REVISIONS			STATUS	
DATE	BY	DESCRIPTION	FOR BID	

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

DRAWN BY:
DOUG NIETUBICZ

CHECKED BY:
KEITH BAKER, E.I.

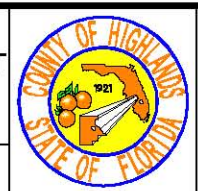
IN CHARGE:
ELIUS F. NORTELLUS, P.E.

DATE:
5/19/2016

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

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

DATE:



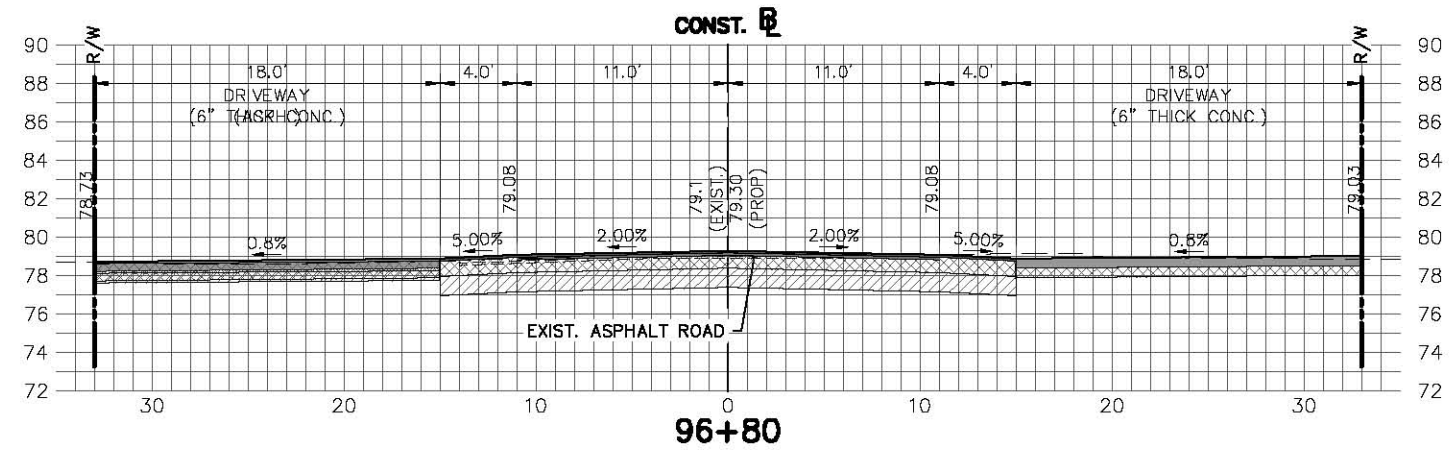
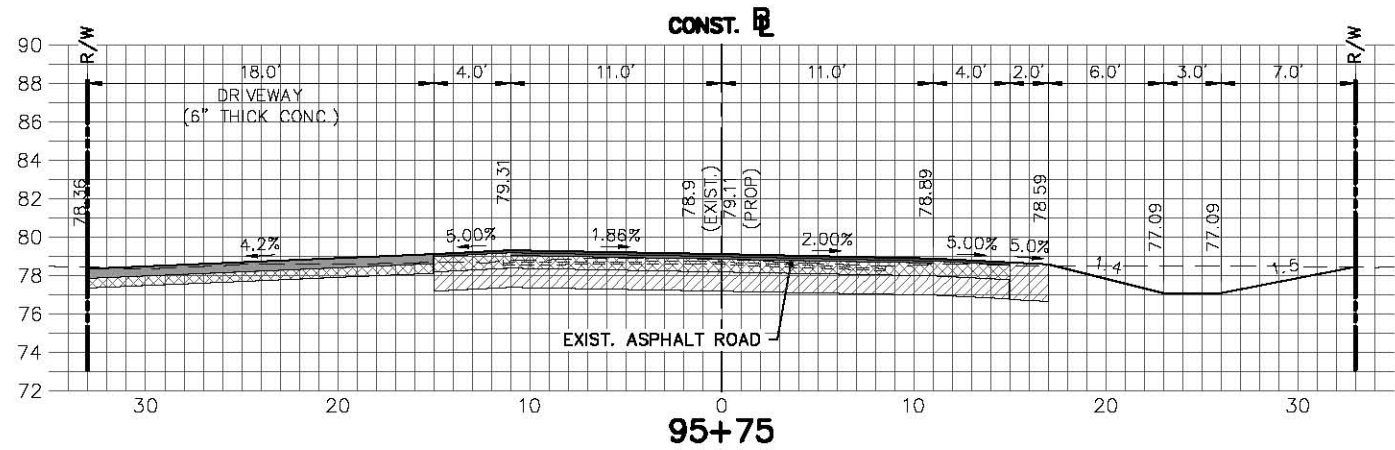
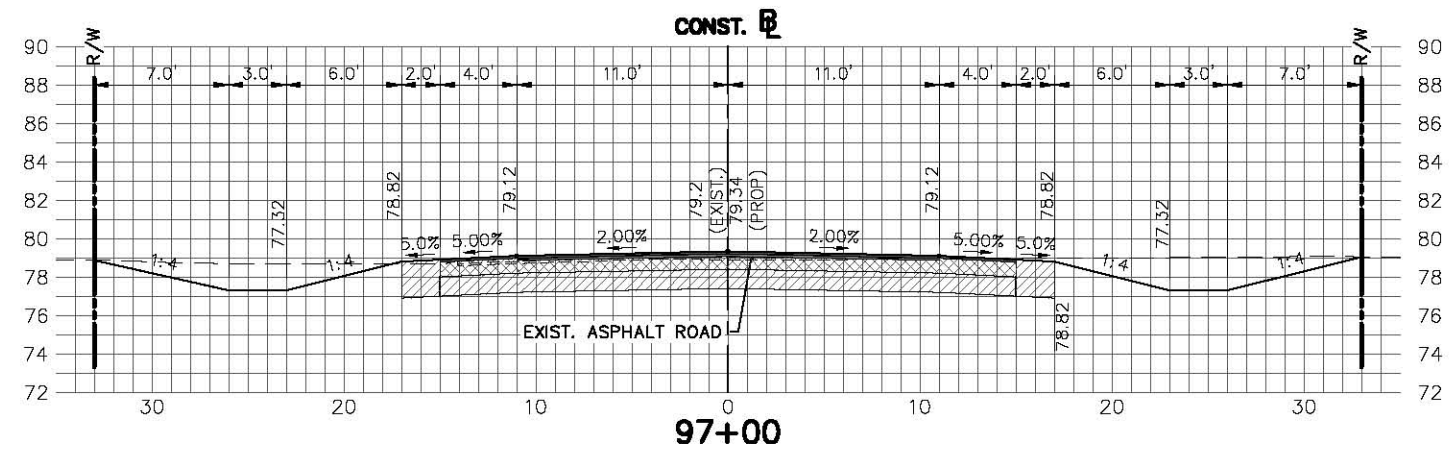
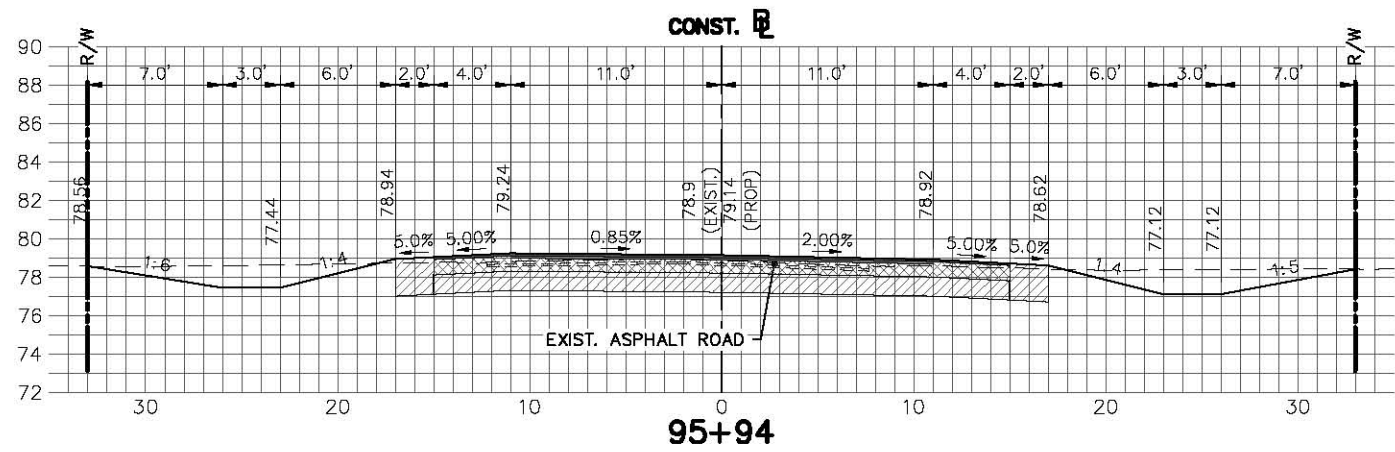
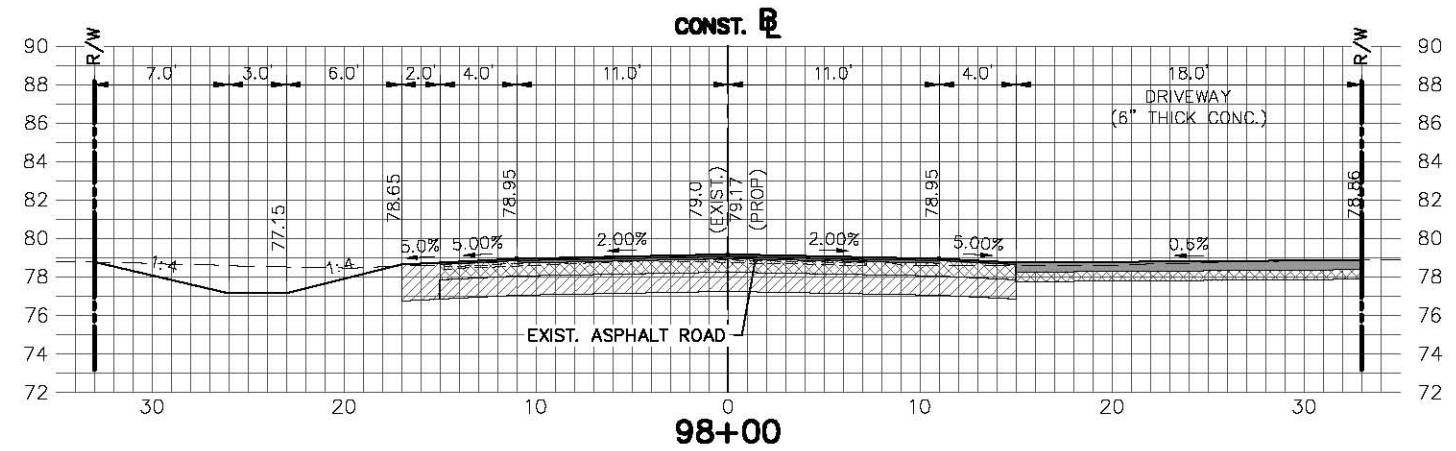
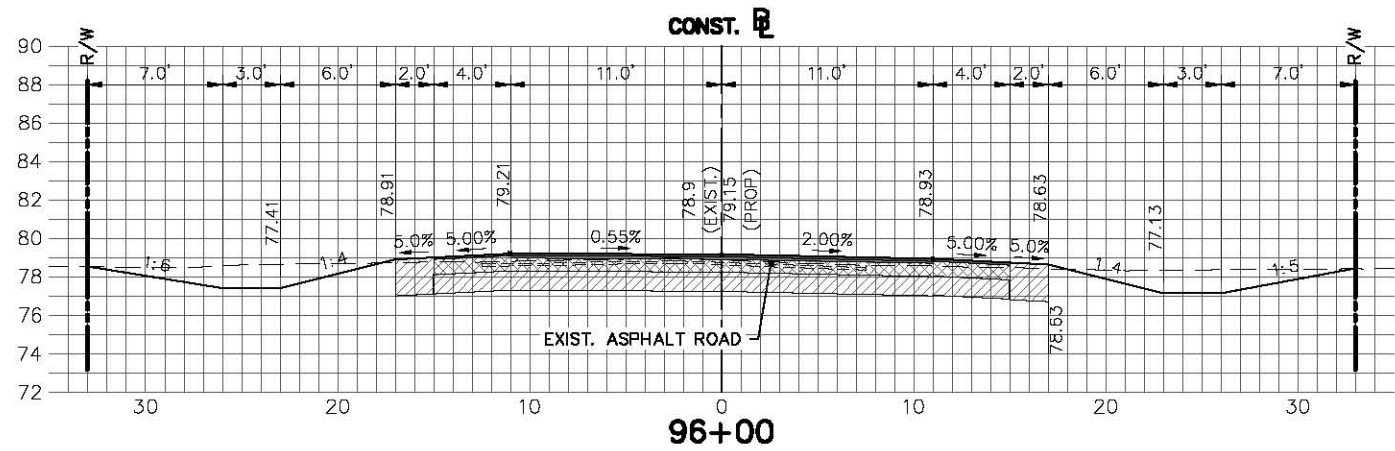
LAKE JOSEPHINE DRIVE
IMPROVEMENTS
CROSS SECTIONS

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

PROJECT NO.
13008

REV.
0

SHEET 61 OF 67

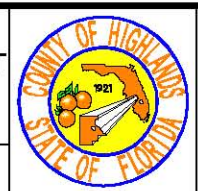


REVISIONS			STATUS	
DATE	BY	DESCRIPTION	FOR BID	

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

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

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

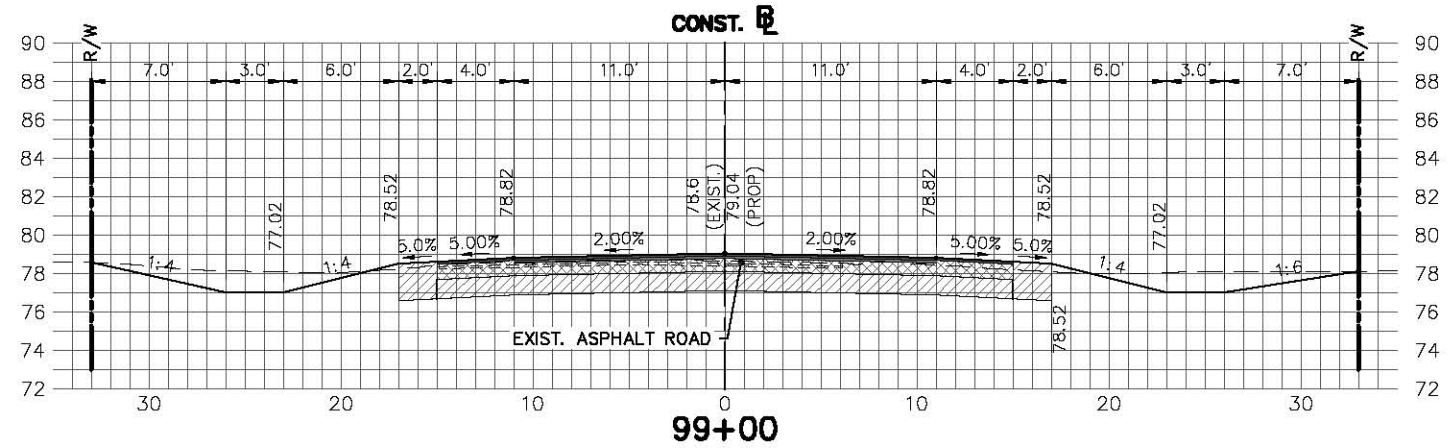
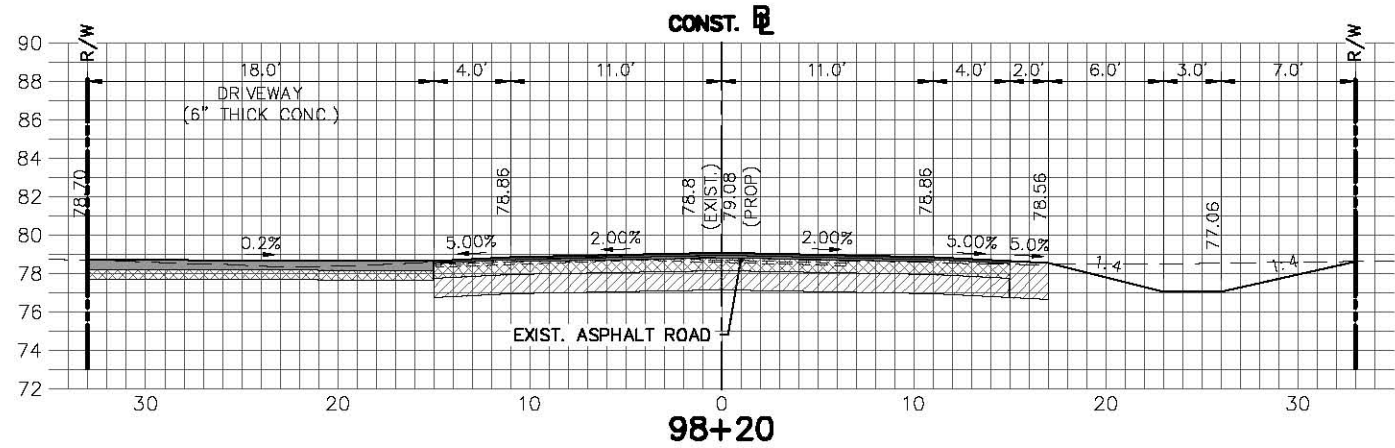
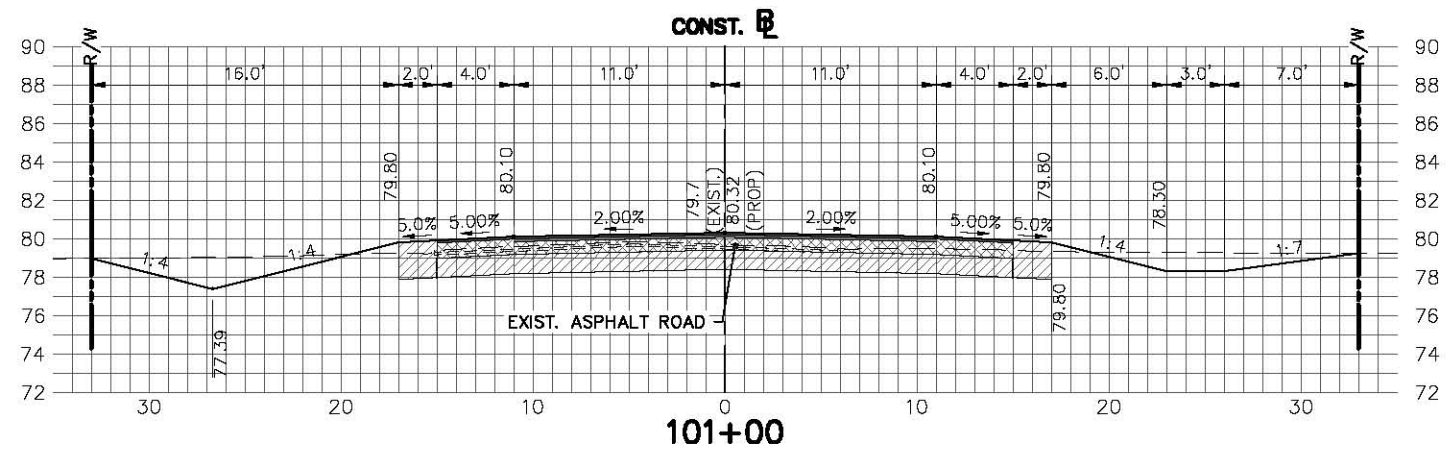
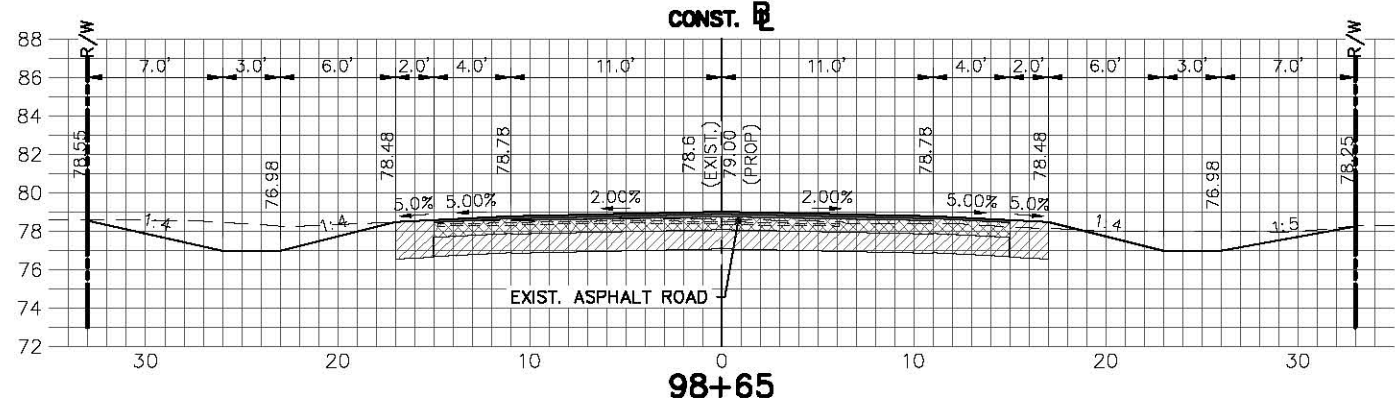
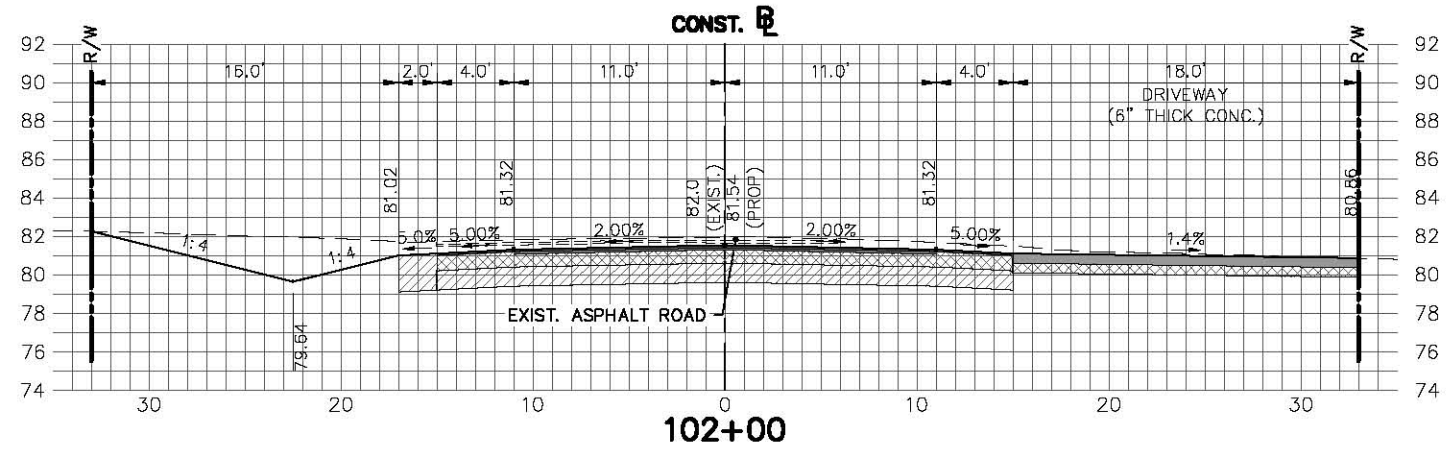
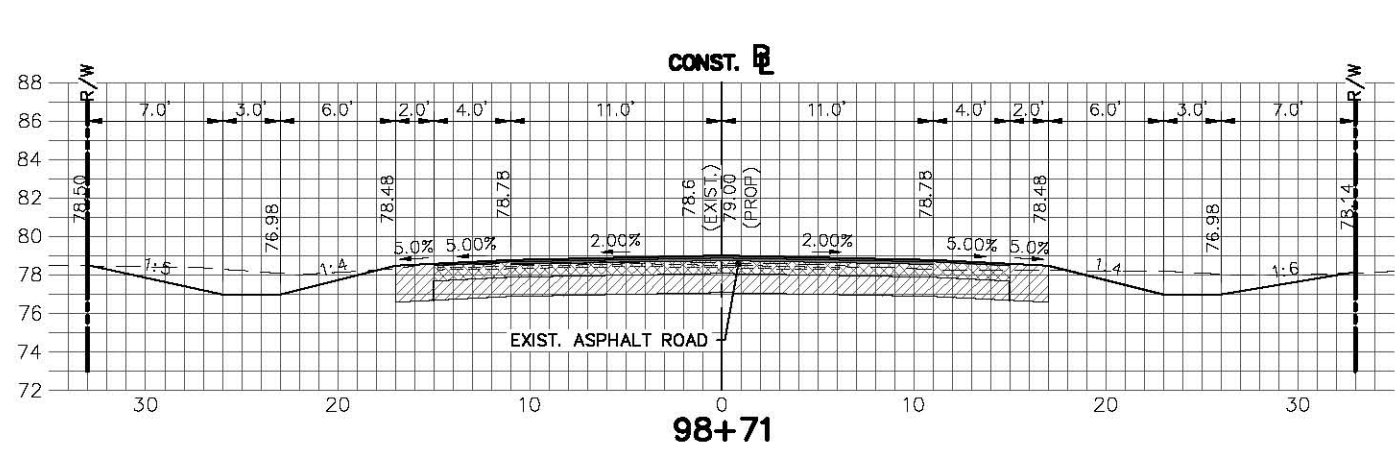


LAKE JOSEPHINE DRIVE IMPROVEMENTS CROSS SECTIONS

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

PROJECT NO. 13008
 REV. 0

SHEET 62 OF 67

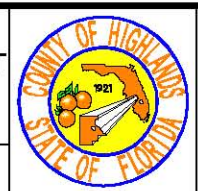


REVISIONS			STATUS	
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			FOR BID	

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

DESIGNED BY: ELIUS F. NORTELUS, P.E.
 DRAWN BY: DOUG NIETUBICZ
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 IN CHARGE: ELIUS F. NORTELUS, P.E.

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

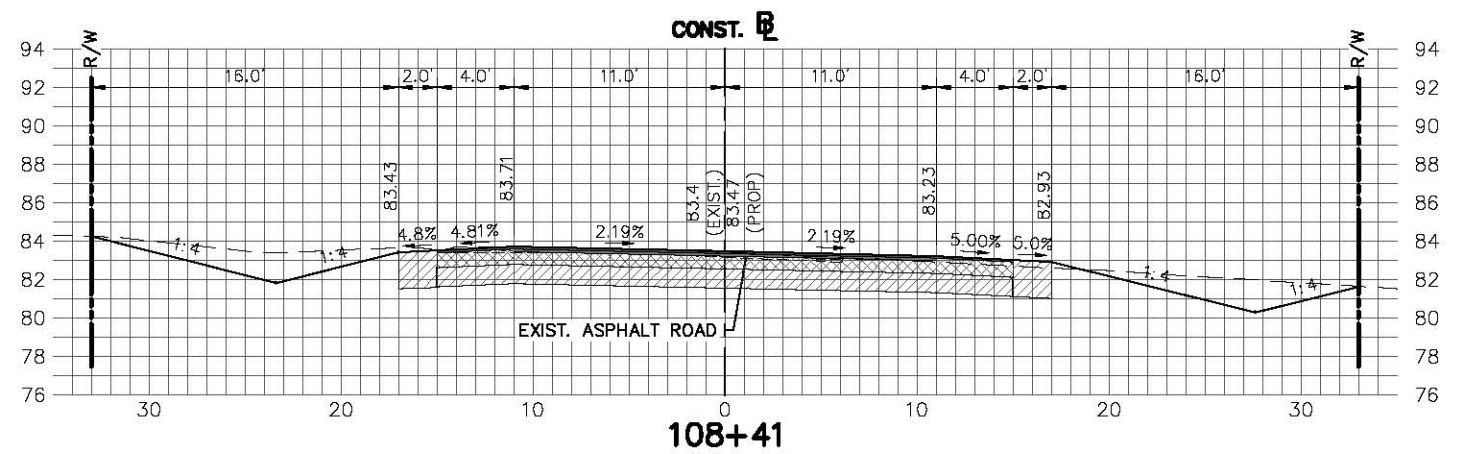
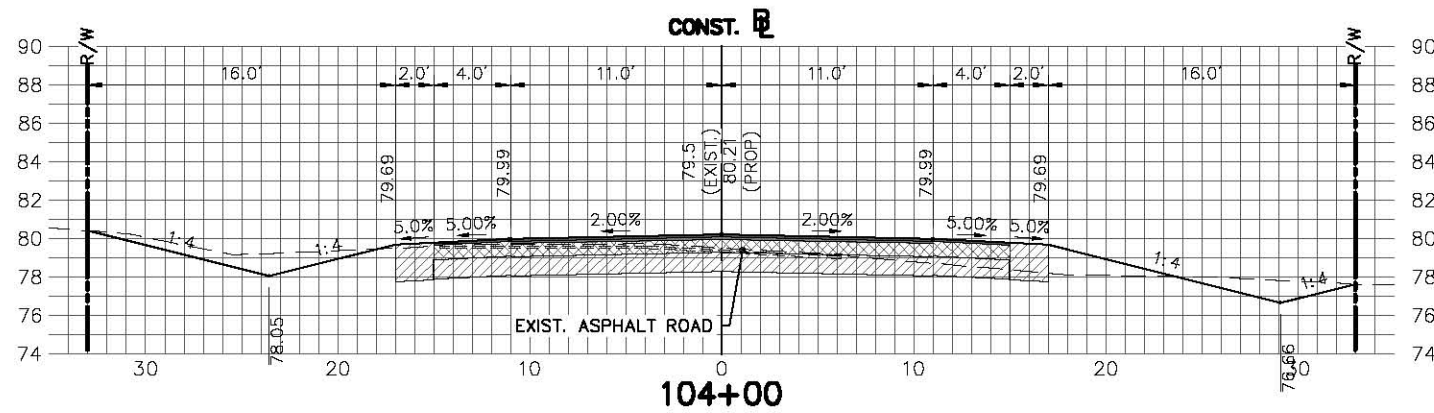
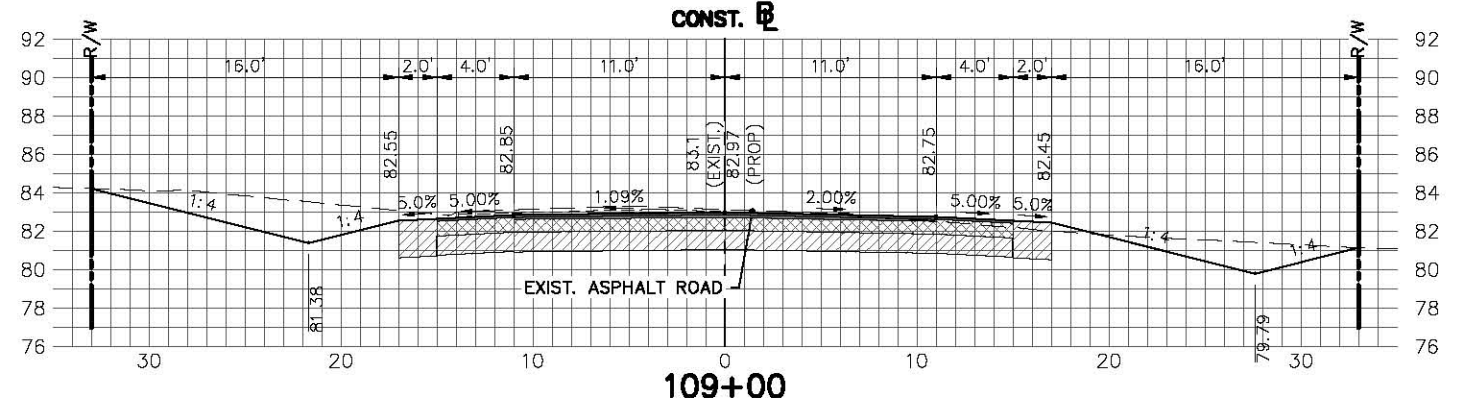
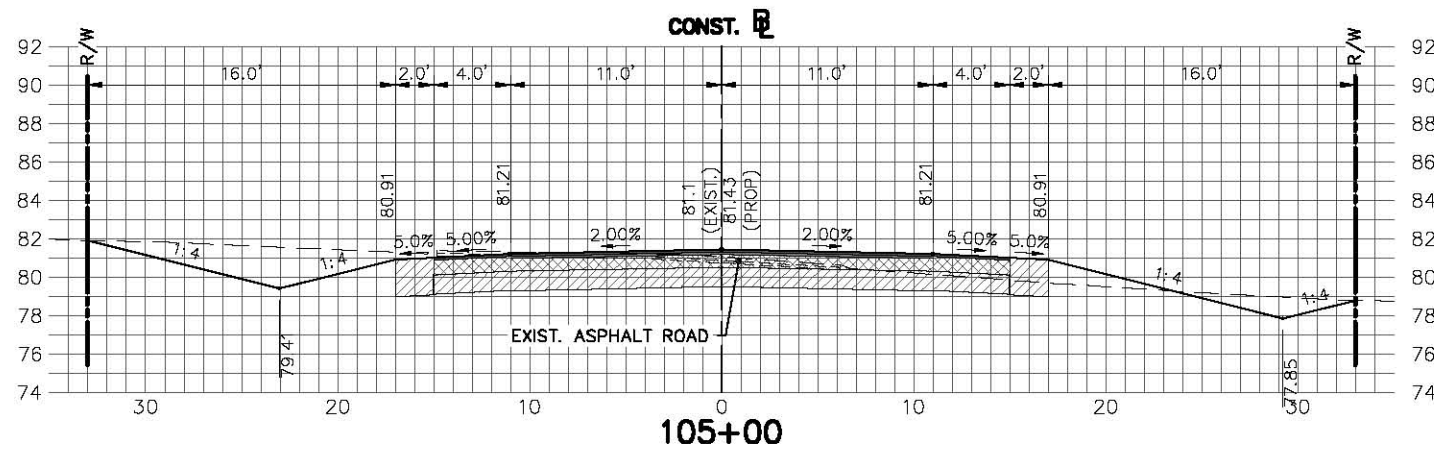
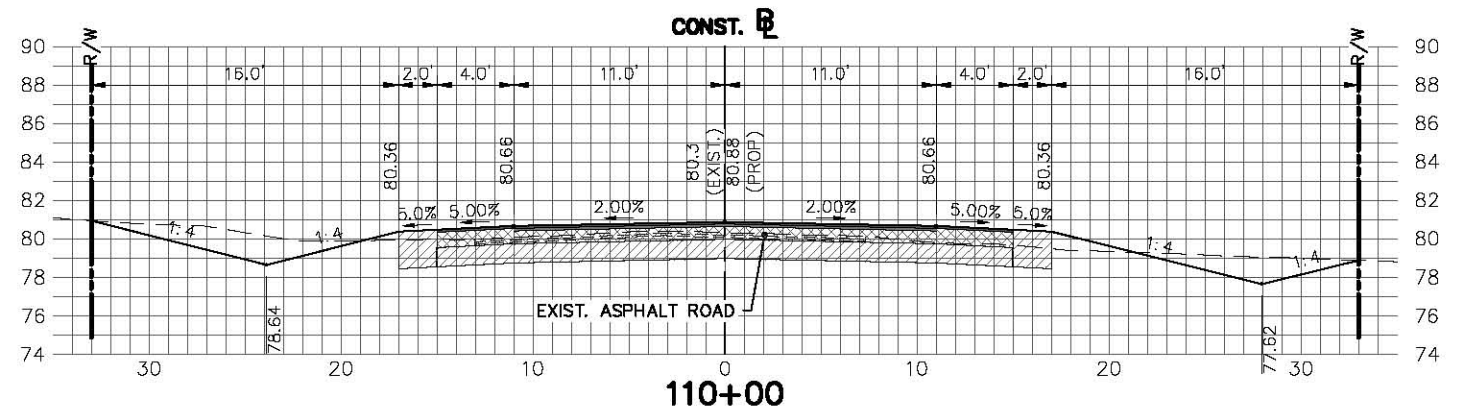
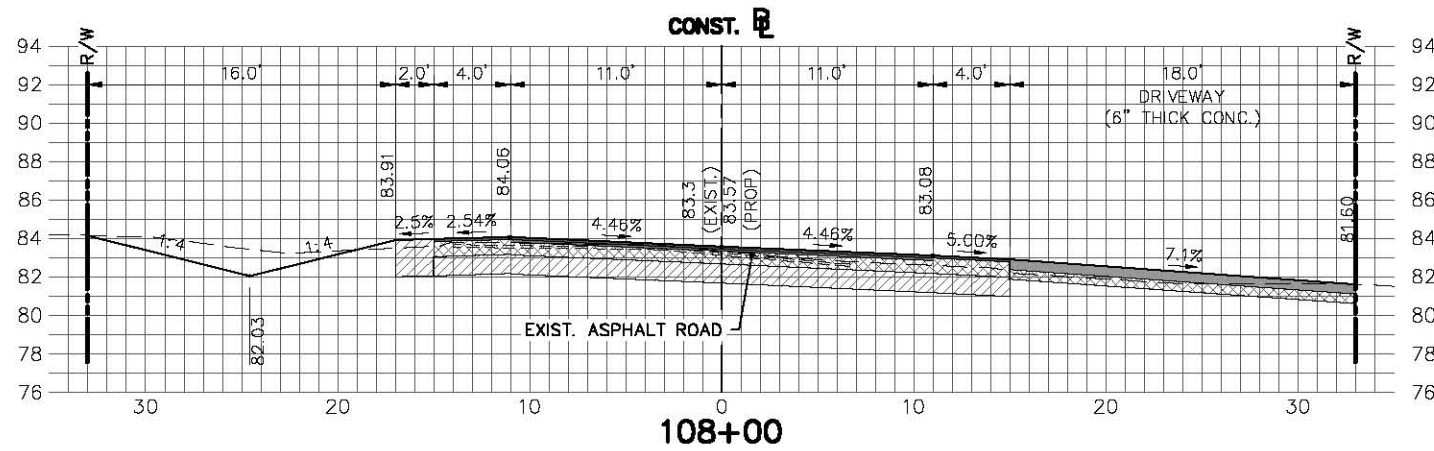


LAKE JOSEPHINE DRIVE IMPROVEMENTS CROSS SECTIONS

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

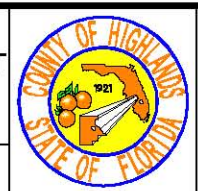
PROJECT NO. 13008
 REV. 0

SHEET 63 OF 67



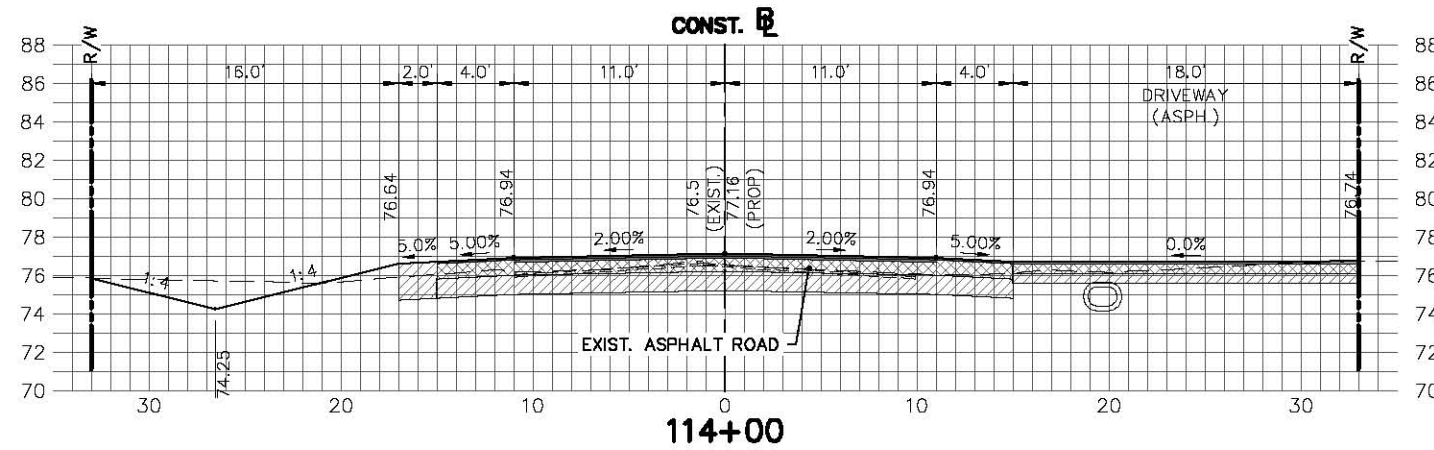
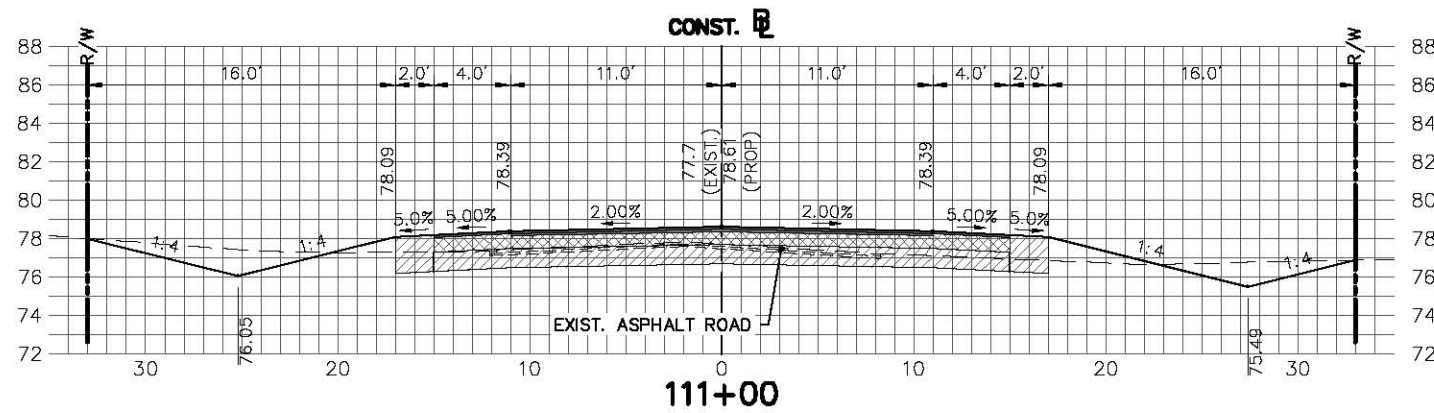
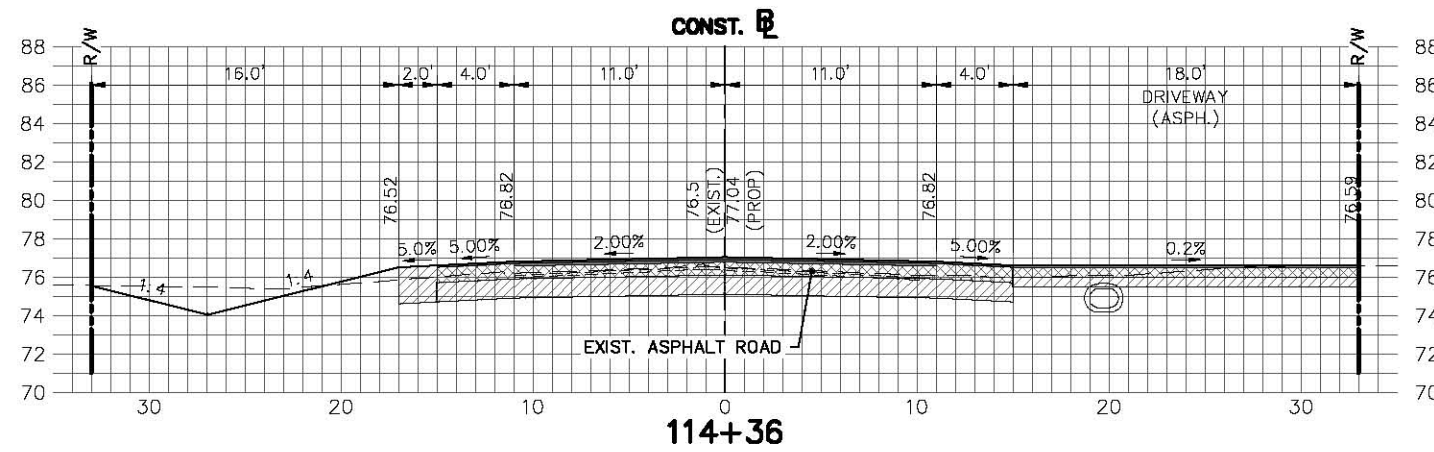
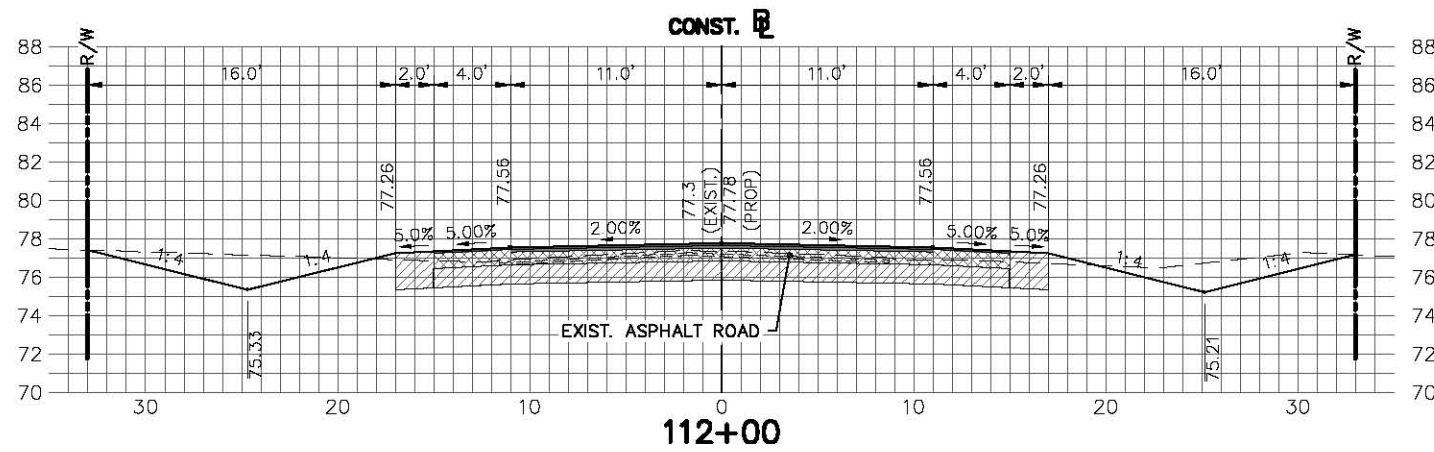
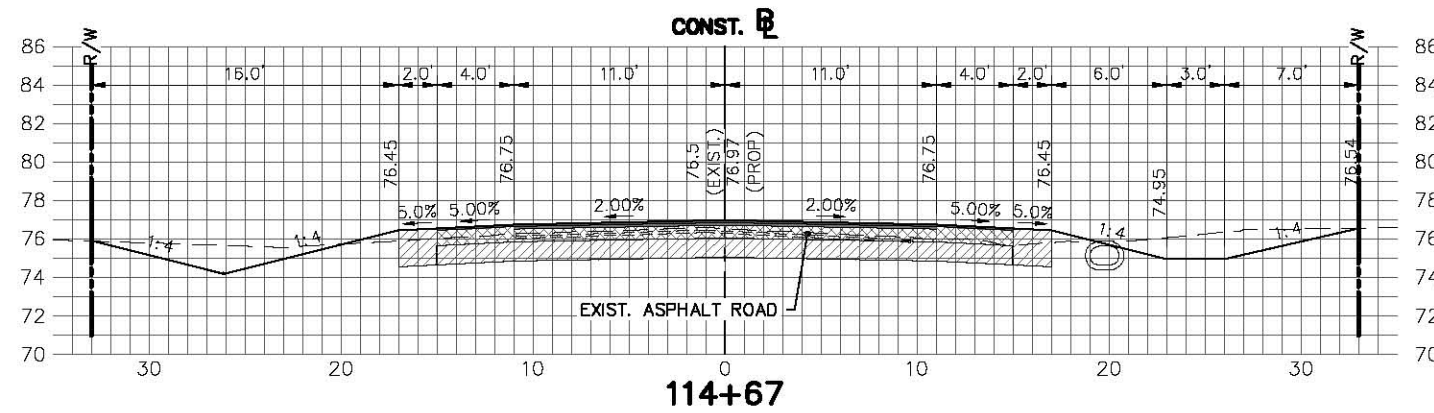
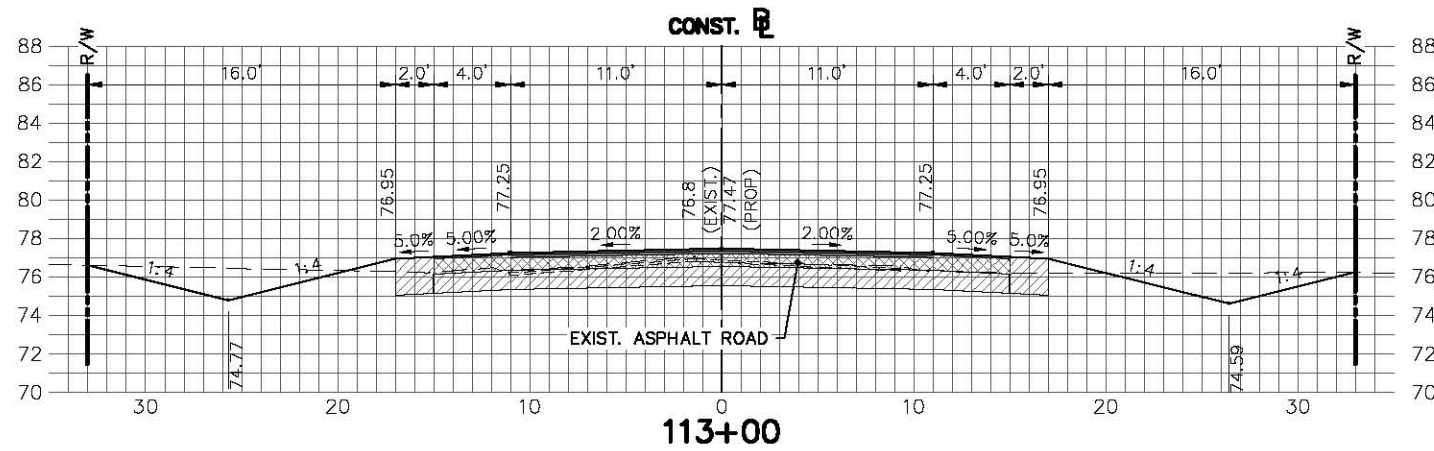
REVISIONS			STATUS	
DATE	BY	DESCRIPTION		
			FOR BID	

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



**LAKE JOSEPHINE DRIVE
IMPROVEMENTS
CROSS SECTIONS**

SCALE: HORIZ. 1"=10' VERT. 1"=10'	
PROJECT NO. 13008	REV. 0
SHEET 64 OF 67	



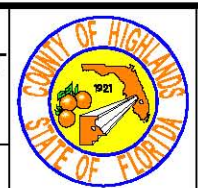
REVISIONS		
DATE	BY	DESCRIPTION

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: 05/19/2016

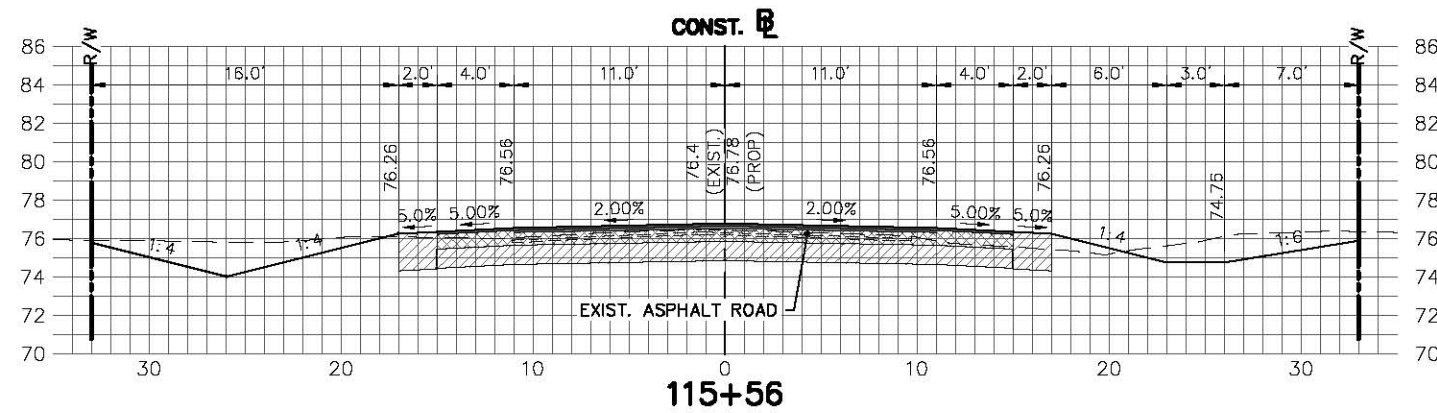
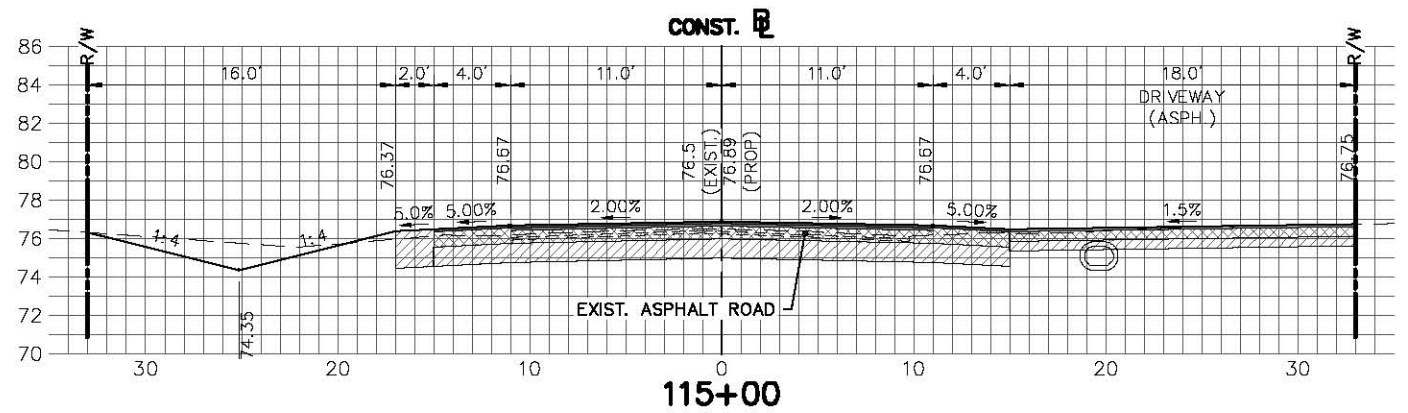
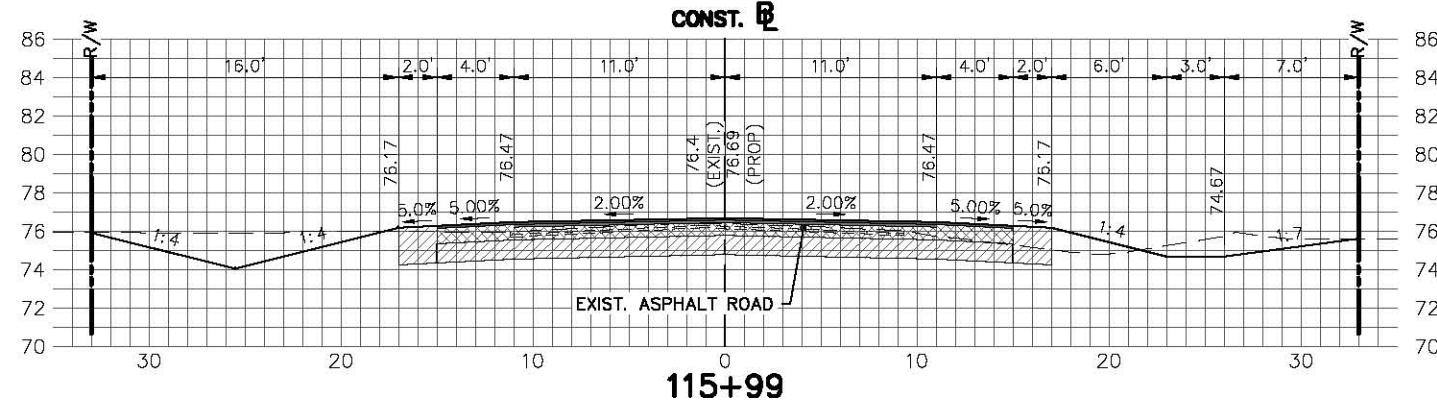
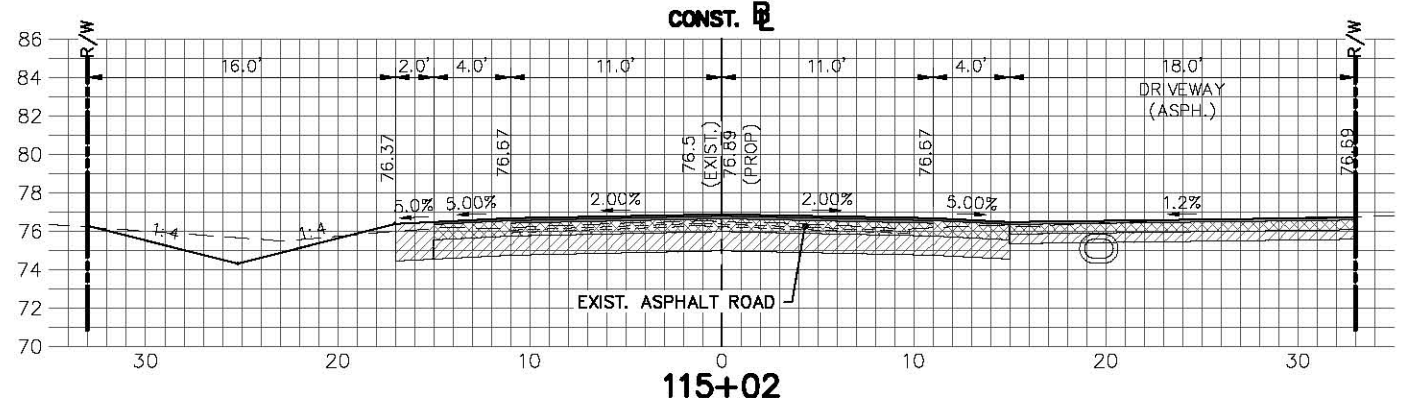
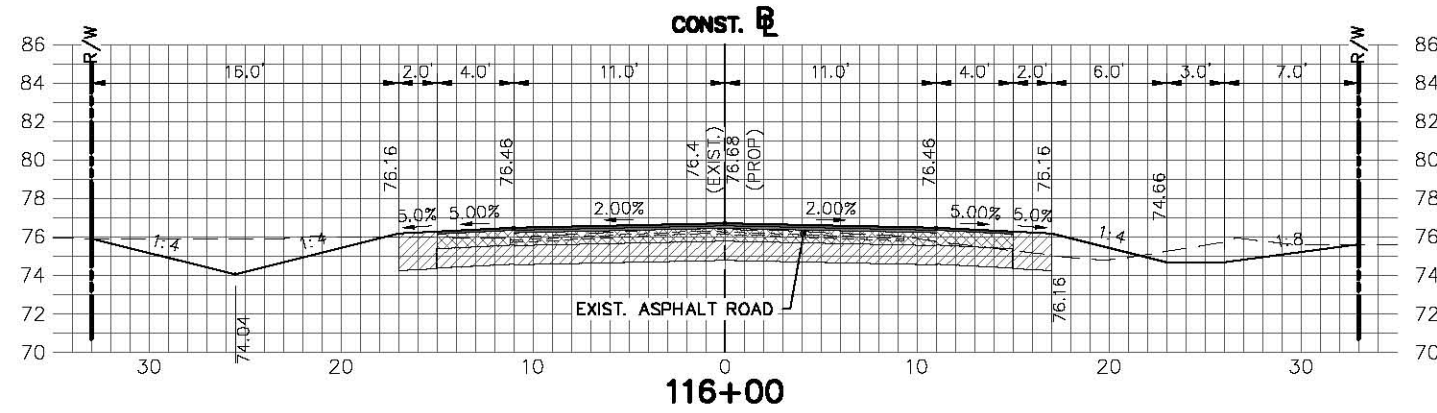
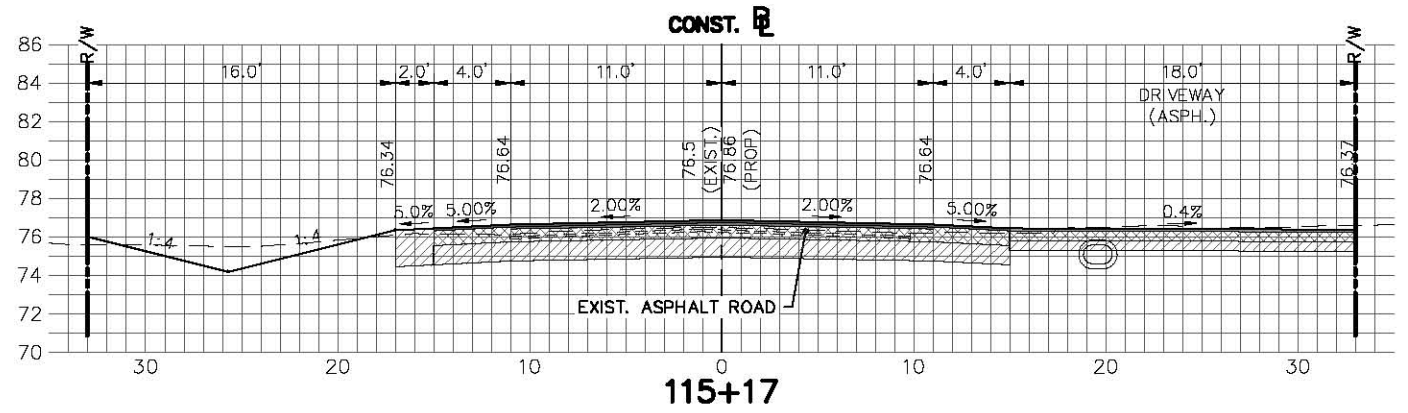
HIGHLANDS COUNTY
ENGINEERING DEPARTMENT
 505 S. COMMERCE AVENUE
 SEBRING, FLORIDA 33870


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

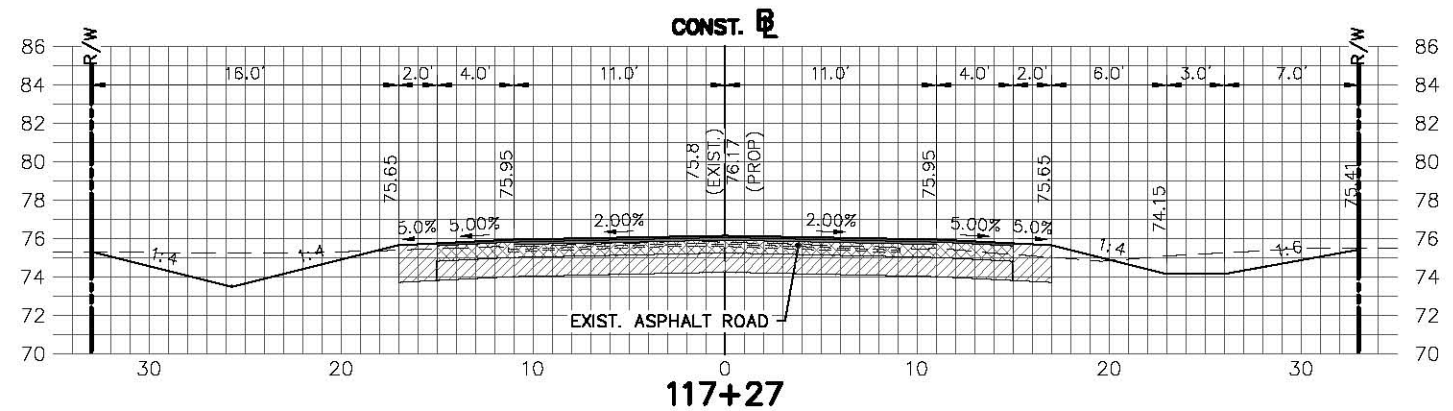
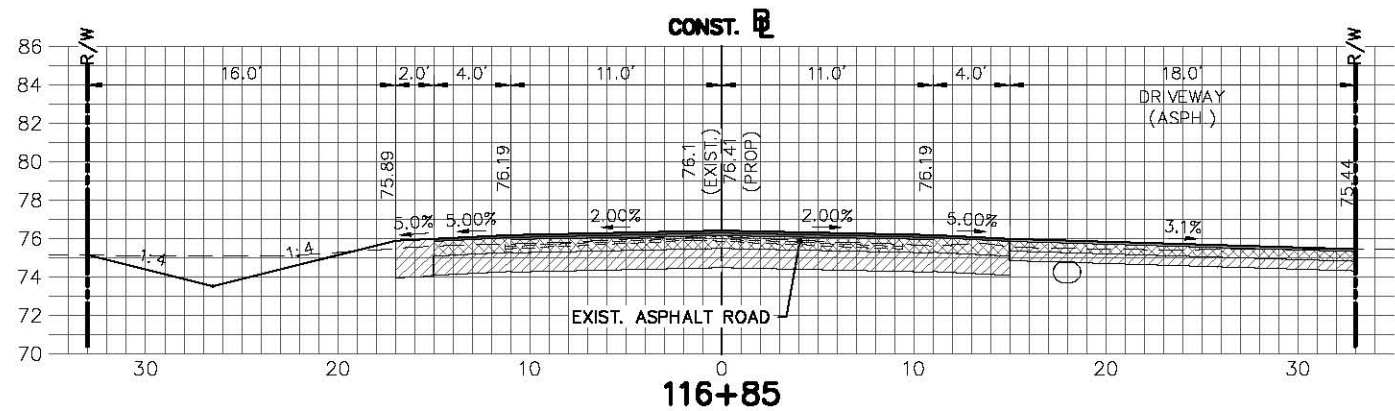
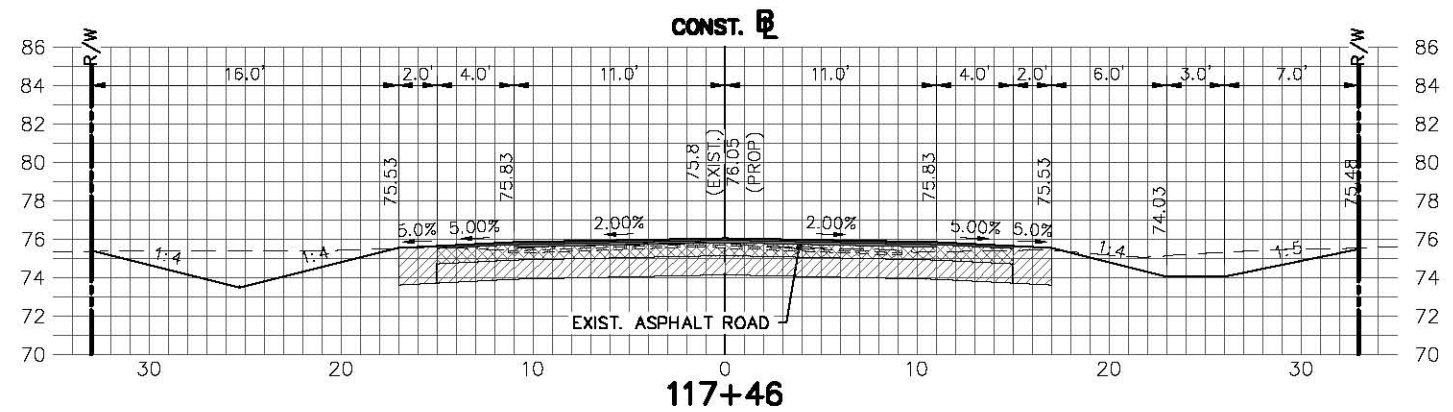
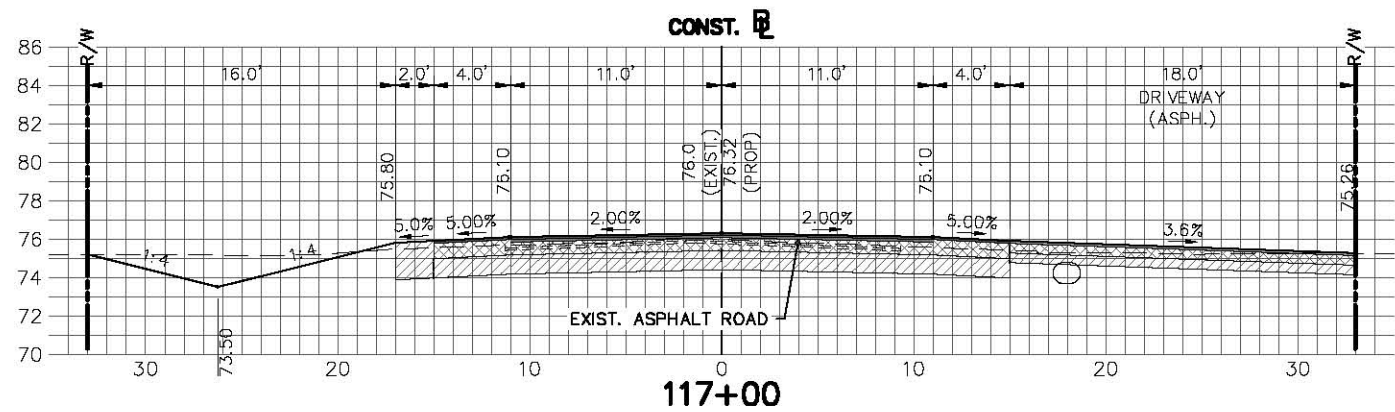
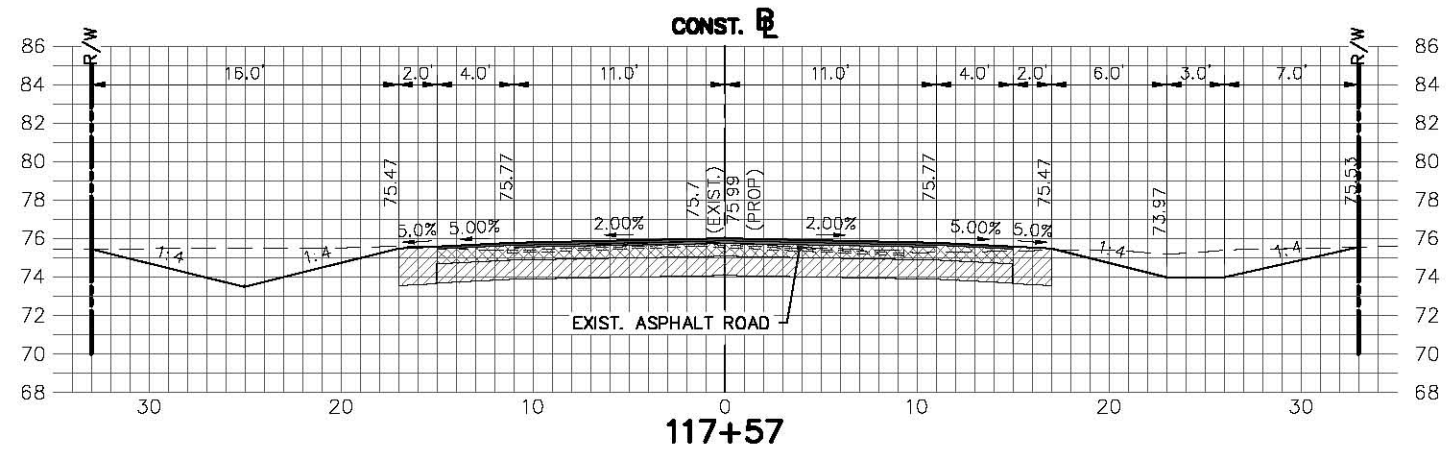
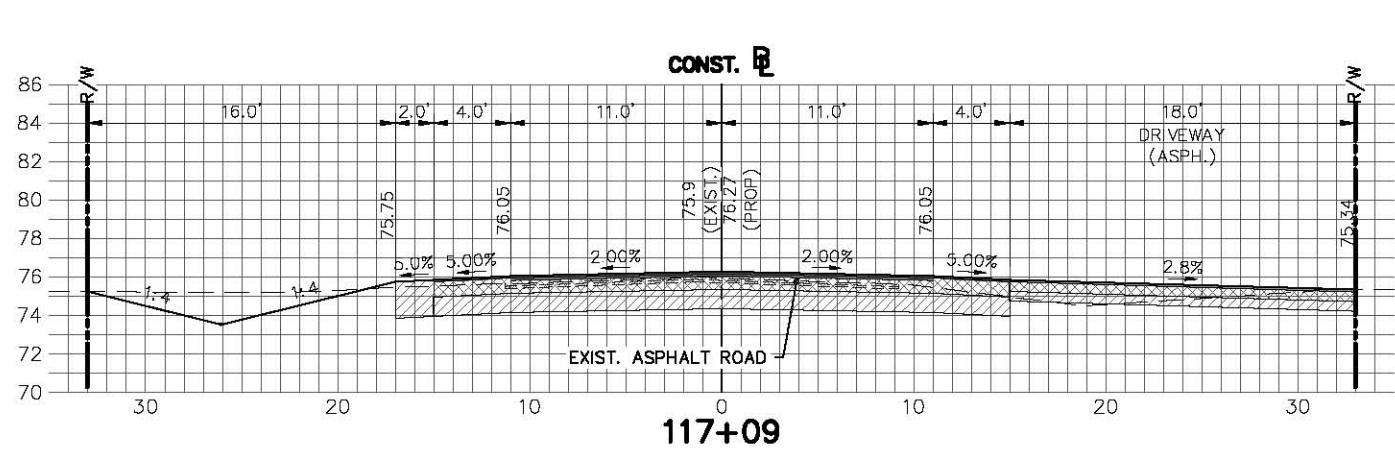


LAKE JOSEPHINE DRIVE
IMPROVEMENTS
CROSS SECTIONS

SCALE: HORIZ. 1"=10' VERT. 1"=10'	
PROJECT NO. 13008	REV. 0
SHEET 65 OF 67	



REVISIONS			STATUS		DESIGNED BY:		HIGHLANDS COUNTY		SCALE:			
DATE	BY	DESCRIPTION	FOR BID		ELIUS F. NORTELLUS, 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. NORTELLUS, P.E.		IMPROVEMENTS		0	
					DATE: 5/19/2016		FLORIDA REGISTRATION NO.: 70092		DATE:			
									CROSS SECTIONS SHEET 66 OF 67			



REVISIONS		
DATE	BY	DESCRIPTION

STATUS
FOR BID

DESIGNED BY: ELIUS F. NORTELLUS, P.E.
 DRAWN BY: DOUG NIETUBIOWICZ
 CHECKED BY: KEITH BAKER, E.I.
 IN CHARGE: ELIUS F. NORTELLUS, P.E.
HIGHLANDS COUNTY ENGINEERING DEPARTMENT
 505 S. COMMERCE AVENUE
 SEBRING, FLORIDA 33870
 APPROVED BY: ELIUS F. NORTELLUS, 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 67 OF 67		

REVISED
SECTION 00300
BID FORM
ITB 16-028

PROJECT IDENTIFICATION: Lake Josephine Drive Improvement Project No. 13008
ITB No. 16-028 and FDOT Financial Management No.
430107 1 58 01

THIS BID IS SUBMITTED TO: Highlands County BCC
Att: Purchasing Department
4320 George Boulevard
Sebring, FL 33875-5803

BID SUBMITTED BY: _____
[Bidder's Name]

[Print Contact Person's name for this Bid]

[Contact Person's e-mail address]

[Contact Person's phone number]

1. The undersigned Bidder proposes and agrees, if this Bid is accepted, to furnish all labor, materials, and equipment to construct and complete the Work according to and as specified or indicated in ITB 16-028 and the Bidding Documents for the Bid Price and within the time periods stated in this Bid and in accordance with the other terms and conditions of the Contract Documents.
2. Bidder accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for thirty-five (35) days after the day of Bid opening. Bidder will sign and deliver the required number of the other documents required by ITB 16-028 within fifteen (15) days after the date of County's Notice of Award.
3. In submitting this Bid, Bidder represents that:
 - (a) Bidder has examined and carefully studied the Bidding Documents, including the following Addenda, receipt of all of which is hereby acknowledged:

<i>Date</i>	<i>Number</i>	<i>Date</i>	<i>Number</i>
_____	_____	_____	_____
_____	_____	_____	_____

- (b) Bidder has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, performance, and furnishing of the Work;
 - (c) Bidder is familiar with and is satisfied as to all federal, state, and local Laws and Regulations that may affect cost, progress, performance, and furnishing of the Work.
 - (d) Bidder acknowledges that County and Engineer do not assume responsibility for the accuracy or completeness of information and data shown or indicated in the Bidding Documents with respect to Underground Facilities at or contiguous to the Site. Bidder has obtained and carefully studied (or assumes responsibility for having done so) all such additional or supplementary examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site or otherwise which may affect cost progress, performance or furnishing of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder and safety precautions and programs incident thereto. Bidder does not consider that any additional examinations, investigations, explorations, tests, studies or data are necessary for the determination of this Bid for performance and furnishing of the Work in accordance with the times, price, and other terms and conditions of the Contract Documents.
 - (e) Bidder is aware of the general nature of the Work to be performed by County and others at the Site that relates to the Work.
 - (f) Bidder has correlated information known to Bidder, information and observations obtained from visits to the Site, and all additional examinations, investigations, explorations, tests, studies, and data with the Contract Documents.
 - (g) Bidder has given Engineer written notice of all conflicts, errors, ambiguities or discrepancies that Bidder has discovered in the Bidding Documents and the written resolution thereof by Engineer is acceptable to Bidder, and the Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performing and furnishing the Work.
 - (h) This Bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid. Bidder has not solicited or induced any person, firm or corporation to refrain from bidding, and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over County.
4. In compliance with Section 287.087, Florida Statutes as a YES NO CIRCLE ONE
"Drug Free Workplace"

Participating in E-Verify? YES NO CIRCLE ONE
 (If yes, must submit any document from E-Verify showing your Member # with bid)

Women or Minority Owned Business? YES NO CIRCLE ONE
 (If yes, copy of certificate must be submitted with bid)

5. Pricing

The following unit prices shall be provided by the Bidder. These unit prices shall be used to establish the increase or decrease in the total price due to changes in the Work required by the County. Except for price adjustments for changes in the Work required by the County that increase or decrease the quantities stated in the Tabulation of Quantities, there will be no adjustments to Lump Sum Bid Price. The Bidder shall be responsible for verification of the quantities stated in the following Tabulation of Quantities. **This is a Lump Sum Bid.** Bidder will complete the Work in accordance with the Contract Documents for the following Lump Sum Bid Price. **AWARD will be based on the Lump Sum Bid Price and requirements of Bidder. All work for this ITB will be awarded to one (1) Bidder.**

LAKE JOSEPHINE DRIVE IMPROVEMENTS PROJECT, HIGHLANDS COUNTY PROJECT No. 13008 AND FDOT FINANCIAL MANAGEMENT NO. 430107 1 58 01

BASE BID:

TABULATION OF QUANTITIES

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	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	18,485	LF
9	CLEARING AND GRUBBING INCLUDING TREE REMOVAL	1	LS
10	REMOVAL OF EXISTING CONCRETE PAVEMENT DRIVEWAY	1,530	SY
11	REMOVAL OF EXISTING ASPHALT PAVEMENT (DRIVEWAY & ROADWAY)	4,250	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 8" COMPACTED THICKNESS. ADDITIONAL MATERIAL TO BE PROVIDED BY THE CONTRACTOR IF NECESSARY.	35,540	SY
15	OPTIONAL BASE, BASE GROUP 6, 8" COMPACTED THICKNESS (ROADWAY)	29,200	SY
16	OPTIONAL BASE, BASE GROUP 4, 6" COMPACTED THICKNESS, DRIVEWAY	3,010	SY
17	MILLING EXISTING ASPH PAVT, 1 1/2" AVG DEPTH	360	SY
18	SUPERPAVE ASPHALTIC CONCRETE, 1 1/2" THICK, RAP 30% MAXIMUM, 1 1/2" THICK (STA 118+06.05 TO STA 119+04.28)	30	TN

ADDENDUM NO. 1 - 05/19/2016

19	SUPERPAVE ASPHALTIC CONCRETE, 3" THICK, RAP 30% MAXIMUM, PLACED IN TWO EQUAL LAYERS, 1½" THICK EACH	5,080	TN
20	SUPERPAVE ASPHALTIC CONCRETE, 1½" THICK, RAP 30% MAXIMUM, ROADWAY (SIDE STREETS)	360	TN
21	SUPERPAVE ASPHALTIC CONCRETE, 1½" THICK, RAP 30% MAXIMUM, DRIVEWAY	60	TN
22	INLET, DITCH BOTTOM, TYPE C	2	EA
23	18" x 12" REINFORCED CONCRETE PIPE (RCP)	64	LF
24	18" REINFORCED CONCRETE PIPE (RCP)	10	LF
25	MITERED END SECTION	1	EA
26	CONCRETE DRIVEWAYS, 6" THICK, 6" x 6" W1.4\W1.4 WELDED WIRE MESH, 3,000 PSI MINIMUM	1,910	SY
27	RUMBLE STRIPS, GROUND IN	6,280	LF
28	PERFORMANCE TURF (SOD)	38,610	SY
29	SINGLE POST SIGN, F & I, STOP (R1-1), 30" x 30"	17	AS
30	SINGLE POST SIGN, F & I, STREET SIGN (D3-1)	34	AS
31	SINGLE POST SIGN, F & I, STOP (R1-1)	1	AS
32	SINGLE POST SIGN, F & I, SPEED LIMIT, (R2-1), 24" x 30"	3	AS
33	SINGLE POST SIGN, F & I, NARROW BRIDGE, W5-2, 36" x 36"	4	AS
34	SINGLE POST SIGN, F & I, OBJECT MARKER (OM3R), 12" X 36"	4	AS
35	SINGLE POST SIGN, F & I, OBJECT MARKER (OM3L), 12" X 36"	4	AS
36	SINGLE POST SIGN, F & I, OBJECT MARKER (OM2-1V) (WHITE)	20	AS
37	SINGLE POST SIGN, F & I, OBJECT MARKER (OM2-2V) (YELLOW)	12	AS
38	SINGLE POST SIGN, F & I, STOP AHEAD (W3-1)	1	AS
39	SINGLE POST SIGN, F & I, CURVE LEFT (W1-2L)	2	AS
40	SINGLE POST SIGN, F & I, CURVE RIGHT (W1-2R)	2	AS
41	SINGLE POST SIGN, F & I, REVERSE CURVE (W1-4L)	2	AS
42	SINGLE POST SIGN, F & I, WINDING ROAD (W1-5)	2	AS
43	SINGLE POST SIGN, REMOVE & RELOCATE	36	AS
44	SINGLE POST SIGN, REMOVE & DISCARD	18	AS
45	RETRO-REFLECTIVE PAVEMENT MARKERS, YELLOW	800	EA
46	RETRO-REFLECTIVE PAVEMENT MARKERS, WHITE	360	EA
47	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 6"	20,200	LF
48	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 24"	320	LF
49	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, YELLOW, SOLID, 6"	16,300	LF
50	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, YELLOW, SKIP, 6"	2,200	LF
51	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 18" (CHEVRON)	500	LF
52	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"	20,200	LF
53	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	320	LF
54	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"	16,300	LF
55	THERMOPLASTIC, STANDARD, YELLOW, SKIP, 6"	2,200	LF
56	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" (CHEVRON)	500	LF

LS = Lump Sum, SY = Square Yard, TN = Ton, LF = Linear Foot, AS = Assembly and ED = Each Day, EA = Each

BASE BID TOTAL = \$ _____ LUMP SUM BID PRICE

(Words)

Alternate No. 1: Full Depth Reclamation of Lake Josephine Drive

In lieu of the base bid, which is the full depth reconstruction, the Alternate No. 1 is to provide all labor, materials and equipment for the full depth reclamation of Lake Josephine Drive. The work consists of but not limited to the preparation of base course constructed by in-place pulverizing and blending of the existing bituminous pavement and base materials, and introduction of asphalt emulsion or foamed asphalt and other additives, if called for in the mix design, clearing and grubbing, saw cut existing asphalt pavement, driveways reconstruction, roadway widening, and constructing swales. The typical section consists of two 11-foot travel lanes, four feet wide paved shoulders and two feet wide unpaved shoulders. The proposed roadway profile grade along the centerline shall be approximately the same as the existing roadway profile grade along the centerline. See construction plans for details (Exhibit "A").

ALTERNATE NO. 1 TABULATION OF QUANTITIES

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	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	18,485	LF
9	CLEARING AND GRUBBING INCLUDING TREE REMOVAL	1	LS
10	REMOVAL OF EXISTING CONCRETE PAVEMENT DRIVEWAY	1,530	SY
11	REMOVAL OF EXISTING ASPHALT PAVEMENT (DRIVEWAY & ROADWAY)	4,250	SY
12	MAILBOX REMOVE AND RELOCATE	70	EA
13	FULL DEPTH RECLAMATION (12")	35,540	SY
14	OPTIONAL BASE, BASE GROUP 6	31,000	SY
15	CEMENT FOR RECLAMATION	230	TN
16	EMULSION FOR RECLAMATION	63,000	GAL
17	OPTIONAL BASE, BASE GROUP 4, 6" COMPACTED THICKNESS, DRIVEWAY	3,010	SY
18	MILLING EXISTING ASPH PAVT, 1 1/2" AVG DEPTH	370	SY
19	SUPERPAVE ASPHALTIC CONCRETE, 1 1/2" THICK, RAP 30% MAXIMUM, 1/2" THICK (STA 118+06.05 TO STA 119+04.28)	30	TN

ADDENDUM NO. 1 - 05/19/2016

20	SUPERPAVE ASPHALTIC CONCRETE, 3" THICK, RAP 30% MAXIMUM, PLACED IN TWO EQUAL LAYERS, 1½" THICK EACH	5,080	TN
21	SUPERPAVE ASPHALTIC CONCRETE, 1½" THICK, RAP 30% MAXIMUM, ROADWAY (SIDE STREETS)	360	TN
22	SUPERPAVE ASPHALTIC CONCRETE, 1½" THICK, RAP 30% MAXIMUM, DRIVEWAY	60	TN
23	INLET, DITCH BOTTOM, TYPE C	2	EA
24	18" x 12" REINFORCED CONCRETE PIPE (RCP)	64	LF
25	18" REINFORCED CONCRETE PIPE (RCP)	10	LF
26	MITERED END SECTION	1	EA
27	CONCRETE DRIVEWAYS, 6" THICK, 6" x 6" W1.4\W1.4 WELDED WIRE MESH, 3,000 PSI MINIMUM	1,910	SY
28	RUMBLE STRIPS, GROUND IN	6,280	LF
29	PERFORMANCE TURF (SOD)	38,610	SY
30	SINGLE POST SIGN, F & I, STOP (R1-1), 30" x 30"	17	AS
31	SINGLE POST SIGN, F & I, STREET SIGN (D3-1)	34	AS
32	SINGLE POST SIGN, F & I, STOP (R1-1)	1	AS
33	SINGLE POST SIGN, F & I, SPEED LIMIT, (R2-1), 24" x 30"	3	AS
34	SINGLE POST SIGN, F & I, NARROW BRIDGE, W5-2, 36" x 36"	4	AS
35	SINGLE POST SIGN, F & I, OBJECT MARKER (0M3R), 12" X 36"	4	AS
36	SINGLE POST SIGN, F & I, OBJECT MARKER (0M3L), 12" X 36"	4	AS
37	SINGLE POST SIGN, F & I, OBJECT MARKER (0M2-1V) (WHITE)	20	AS
38	SINGLE POST SIGN, F & I, OBJECT MARKER (0M2-2V) (YELLOW)	12	AS
39	SINGLE POST SIGN, F & I, STOP AHEAD (W3-1)	1	AS
40	SINGLE POST SIGN, F & I, CURVE LEFT (W1-2L)	2	AS
41	SINGLE POST SIGN, F & I, CURVE RIGHT (W1-2R)	2	AS
42	SINGLE POST SIGN, F & I, REVERSE CURVE (W1-4L)	2	AS
43	SINGLE POST SIGN, F & I, WINDING ROAD (W1-5)	2	AS
44	SINGLE POST SIGN, REMOVE & RELOCATE	36	AS
45	SINGLE POST SIGN, REMOVE & DISCARD	18	AS
46	RETRO-REFLECTIVE PAVEMENT MARKERS, YELLOW	800	EA
47	RETRO-REFLECTIVE PAVEMENT MARKERS, WHITE	360	EA
48	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 6"	20,200	LF
49	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 24"	320	LF
50	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, YELLOW, SOLID, 6"	16,300	LF
51	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, YELLOW, SKIP, 6"	2,200	LF
52	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 18" (CHEVRON)	500	LF
53	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"	20,200	LF
54	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	320	LF
55	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"	16,300	LF
56	THERMOPLASTIC, STANDARD, YELLOW, SKIP, 6"	2,200	LF
57	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" (CHEVRON)	500	LF

ALTERNATE NO. 1 TOTAL = \$ _____ LUMP SUM PRICE

(Words)

Additive Alternate No. 2: Concrete Sidewalk Construction

The Alternate No. 2 is to provide all labor, materials and equipment for the construction of approximately 3,140 LF of 5 feet wide concrete sidewalk along the south side of Lake Josephine Drive from approximately station 86+85 to station 118+20. The work consists of but not limited to clearing and grubbing, and installing base materials.

TABULATION OF QUANTITIES

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"	770	LF
8	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12"	770	LF

ADDITIVE ALTERNATE NO. 2 TOTAL = \$ _____

(Words)

DEDUCTIVE ALTERNATE NO. 3: Asphalt (Superpave Asphalt Concrete, Type SP-9.5)

The Alternate No. 3 is to provide all labor, materials and equipment for the construction of Lake Josephine Drive. This alternate requires the CONTRACTOR to use asphalt from the Highlands County owned asphalt plant for the construction of the project. The CONTRACTOR shall be responsible for retrieving the asphalt from the asphalt plant and for placing the asphalt at contractor's cost. CONTRACTOR shall not be charged for the asphalt. The Highlands County asphalt plant is located at 12700 Arbuckle Creek Road, Sebring FL 33870.

DEDUCTIVE ALTERNATE NO. 3 TOTAL = \$ _____

(Words)

Bidder's Name _____

6. (a) Bidder agrees that the Work will be substantially completed within hundred and fifty (150) calendar days and ready for final payment within one-hundred and eighty (180) calendar days after the date specified in, and being after, the Notice to Proceed issued by the County.

(b) Bidder shall coordinate with the County Project Manager in order to comply with all applicable quality control testing in accordance with the project specifications.

7. The following documents are submitted with this Bid:

- (a) Required Bidder's Qualification Statement with supporting data.
- (b) A tabulation of Subcontractors.
- (c) Certificate of Insurance for both Bidder and any Subcontractors (if applicable).
- (d) Acknowledgment of the Addenda (if applicable).
- (e) A list of a minimum of (5) five jobs similar in scope and size.
- (f) A minimum of five (5) references of clients for whom similar work has been performed.
- (g) One (1) original (signed in blue ink), one (1) exact copy, and one (1) electronic copy of the submitted Bid.
- (h) E-Verify Confirmation

Communications concerning this Bid have been addressed only to the contacts listed in Article 23 of Section 00100 of ITB 16-028.

SUBMITTED on _____, 2016

State Contractor License No. _____.

If Bidder is:

An Individual

By: _____ (SEAL)
(Individual's Name)

doing business as _____

Business Address: _____

Phone No.: _____

A Partnership

_____(SEAL)
(Partnership Name)

(State in Which Organized and Type of Partnership)

By: _____
(Name of General Partner)

Business Address: _____

Phone No.: _____

A Corporation

_____(SEAL)
(Corporation Name)

By: _____
(name of person authorized to sign)

(title)

(Corporate Seal)

Attest: _____
(secretary)

Business Address: _____

Phone No.: _____

Date of Qualification to do business is _____

A Joint Venture

By: _____
(name) (seal)

(address)

By: _____
(name) (seal)

(address)

Phone Number and Address for receipt of official communications:

(Each joint venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above for an individual or the appropriate form of entity.)

REVISED
SECTION 00500
AGREEMENT
ITB 16-028

THIS AGREEMENT made this ____ day of _____, 2016, by and between Highlands County, a political subdivision of the State of Florida, 600 South Commerce Avenue, Sebring, Florida 33870, hereinafter called "Owner" and _____, hereinafter called "Contractor". Owner and Contractor, in consideration of the mutual covenants hereinafter set forth, agree as follows:

Article 1. WORK

Contractor shall complete all Work as specified or indicated in the Contract Documents. The Work is generally described as follows:

To provide all labor, materials and equipment to construct the LAKE JOSEPHINE DRIVE IMPROVEMENTS PROJECT. The work consists of the reconstruction of Lake Josephine Drive from approximately 1.8 miles west of US 27 to US 27 in Sebring, FL, construction of the associated drainage improvements and construction or reconstruction, as appropriate, of the existing side road approaches and driveways. This ITB includes three (3) alternates, which may or may not be accepted as part of the awarded Bid.

The principal features, as defined above, are not intended to cover every aspect of the installation details. Contractor shall be responsible for reviewing the Contract Documents, plans, and specifications to determine full scope of work and specific requirements for the Project, which include familiarity and compliance with all federal, state, and local statutes, codes, rules, and regulations.

Article 2. ENGINEER

ENGINEER:

The Engineer of Record (hereinafter called "Engineer") will be Assistant County Engineer, Elius F. Nortelus, P.E.

Article 3. CONTRACT TIMES

3.1 Contractor agrees that the Work will be substantially complete within 150 calendar days and completed and ready for final payment within 180 calendar days after the date when the Contract Times commence to run. The Contract Times will commence to run on the thirtieth day after the Effective Date of this Agreement or, if a Notice to Proceed is given, on the day indicated in the Notice to Proceed. A Notice to Proceed may be given at any time within 30 days after the Effective Date of this Agreement.

3.2 **Liquidated Damages:**

3.2.1 Owner and Contractor recognize that time is of the essence of this Agreement and that Owner will suffer financial loss if the Work is not completed within the times specified in paragraph 3.1 of this Article. In agreeing upon the daily liquidated damages amount stated in this paragraph, Owner and Contractor have considered the original Contract Price stated in Article 4 of this Agreement, the average construction, engineering, and inspection costs experienced by Owner, and anticipated costs of project-related delays and inconveniences

- 5.2 Progress Payments; Retainage: Owner shall make progress payments on account of the Contract Price on the basis of Contractor's Applications for Payment as recommended by Engineer, on or about the 15th day of each month during construction as provided in paragraphs 5.2.1 and 5.2.2 below.
- 5.2.1 Prior to Substantial Completion, progress payments will be made in an amount equal to the percentage indicated below, but in each case, less the aggregate of payments previously made and less such amounts as Engineer shall determine, or Owner may withhold. Owner will withhold 10% of each application for progress payment until the completion of the Work.
- 90 % of the Work completed.
- 0 % of materials and equipment not incorporated in the Work (but delivered, suitably stored, and accompanied by documentation satisfactory to the Owner).
- 5.2.2 Upon Substantial Completion, in an amount sufficient to increase total payments to Contractor to 90% of the Contract Price (with the balance being retainage), less such amounts as Engineer shall determine, or Owner may withhold.
- 5.3 Final Payment: Upon completion of the Work, Contractor shall notify Owner in writing of the completion. The certification shall state that the Work has been completed in compliance with the Project Construction Plans and specifications. If any deviations are noted from the approved plans, the certification shall include a list of all deviations along with an explanation that justifies the reason to accept each deviation. After Contractor has, in the opinion of Engineer, satisfactorily completed all corrections identified during the final inspection and deviations not accepted by Owner and has delivered to Owner, in accordance with the Contract Documents, schedules, guarantees, Bonds, certificates or other evidence of insurance, certificates of inspection, permits, marked-up record documents, paper final as-built Construction Plans, signed, sealed, and certified by a Professional Surveyor, registered in the State of Florida, and all applicable permits, final releases from Contractor and all subcontractors and materialmen at every level, all warranties, and all other documents reasonably required by Owner pertaining to the Work, Contractor may make application for final payment.

Article 6. CONTRACTOR'S REPRESENTATIONS

In order to induce Owner to enter into this Agreement, Contractor makes the following representations:

- 6.1 Contractor has examined and carefully studied the Contract Documents (including any Addenda) and the other related data identified in ITB No. 16-028.
- 6.2 Contractor has visited the Site and become familiar with and is satisfied as to the general, local and site conditions that may affect cost, progress, performance or furnishing of the Work.
- 6.3 Contractor is familiar with and is satisfied as to all federal, state, and local Laws and Regulations that may affect cost, progress, performance and furnishing of the Work.
- 6.4 Contractor has carefully studied all reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing

surface or subsurface structures at or contiguous to the Site (except Underground Facilities) Contractor acknowledges that such reports and drawings are not Contract Documents and may not be complete for Contractor's purposes. Contractor acknowledges that Owner and Engineer do not assume responsibility for the accuracy or completeness of information and data shown or indicated in the Contract Documents with respect to Underground Facilities at or contiguous to the Site. Contractor has obtained and carefully studied (or assumes responsibility for having done so) all such additional supplementary examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface and Underground Facilities) at or contiguous to the Site or otherwise which may affect cost, progress, performance or furnishing of the Work or which relate to any aspect of the means, methods, techniques, sequences and procedures of construction to be employed by Contractor and safety precautions and programs incident thereto. Contractor does not consider that any additional examinations, investigations, explorations, tests, studies or data are necessary for the performance and furnishing of the Work at the Contract Price, within the Contract Times and in accordance with the other terms and conditions of the Contract Documents.

- 6.5 Contractor is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Contract Documents.
- 6.6 Contractor has correlated the information known to Contractor, information and observations obtained from visits to the Site, reports and drawings identified in the Contract Documents and all additional examinations, investigations, explorations, tests, studies and data with the Contract Documents.
- 6.7 Contractor has not given Engineer written notice of any conflicts, errors, ambiguities or discrepancies that Contractor has discovered in the Contract Documents, and Contractor agrees that the Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.
- 6.8 Contractor certifies by signing this Agreement that no Commissioner or employee of the Highlands County Board of County Commissioners has solicited or accepted gratuities, favors, or anything of monetary value from Contractor or parties to subcontracts. Contractor and subcontractors shall not pay any gratuities, favors, or anything of monetary value to any Commissioner or employee of the Highlands County Board of County Commissioners.

Article 7. CONTRACT DOCUMENTS

The Contract Documents which comprise the entire contract between Owner and Contractor concerning the Work consists of the following:

- 7.1 This Agreement (pages 00500-1 to 00500- 9, inclusive).
- 7.2 The Standard General Conditions of the Construction Contract, EJCDC C-700 (2013 Edition).
- 7.3 ITB 16-028 Section 00800 Supplementary Conditions to EJCDC C-700 (2013 Edition).
- 7.4 EXHIBIT "A"- Construction Plans dated _____, consisting of a cover sheet bearing the title "CONSTRUCTION PLANS FOR LAKE JOSEPHINE DRIVE IMPROVEMENTS FROM 1.8 MILES WEST OF U.S. 27 TO U.S. 27, FDOT FINANCIAL MANAGEMENT NO. 430107 1 58 01, HIGHLANDS COUNTY PROJECT NO. 13008" dated **May 19, 2016**,

sheet 1 of 67 and sheets numbered 2 to 67, inclusive, with each sheet bearing the following general title: "LAKE JOSEPHINE DRIVE IMPROVEMENTS".

- 7.5 Except as expressly otherwise noted in this Article, there are no Contract Documents other than those listed in paragraphs 7.1 through 7.4 of this Article. In the event of a conflict the provisions of the order of precedence shall be this Agreement, followed by the Supplementary Conditions, followed by EJCDC C-700 (2013 Edition). The Contract Documents may only be amended to provide for additions, deletions, and revisions in the Work or to modify the terms and conditions thereof in one or more of the following ways:
- (a) Written Amendment signed by both parties
 - (b) Change Order signed by both parties
 - (c) Work Change Directive signed by both parties
- 7.6 The requirements of the Contract Documents may be supplemented and minor variations and deviations in the Work may be authorized, by one or more of the following ways:
- (a) A Field Order issued by the Engineer
 - (b) Engineer's approval of a Shop Drawing
 - (c) Engineer's written interpretation or clarification

Article 8. MISCELLANEOUS

- 8.1 Contractor certifies by signing this Agreement that no Commissioner or employee of the Highlands County Board of County Commissioners has solicited or accepted gratuities, favors or anything of monetary value from Contractor or parties to subcontracts. Contractor and subcontractors shall not pay any gratuities, favors, or anything of monetary value to any Commissioner or employee of the Highlands County Board of County Commissioners.
- 8.2 No funds received pursuant to this Agreement may be expended for lobbying the Legislature, the judicial branch, any state agency, Owner or Owner's elected officials, employees or agents.
- 8.3 By entering into this Agreement, Contractor agrees and promises that, during and after a public emergency, disaster, hurricane, flood, or acts of God, Owner shall be given "first priority" for all goods and services under this Agreement. Contractor agrees to provide all goods and services to Owner during and after the emergency at the terms, conditions, and prices as provided in this Agreement on a "first priority" basis. Contractor shall furnish a 24-hour phone number to Owner in the event of such an emergency. Failure to provide the stated priority during and after an emergency shall constitute a breach of contract and make Contractor subject to sanctions from doing further business with Owner. For purposes of this paragraph, the term "first priority" means priority over all other contracts and agreements between Contractor and any person or entity other than Owner and requires Contractor to deliver the goods and services described in this Agreement to Owner prior to providing those goods and services to any other person or entity during and after the emergency.
- 8.4 Owner shall not be obligated or liable hereunder to any person, organization or entity other than Contractor. No provision in this Agreement is intended to, or shall be construed to, create any third party beneficiary or to provide any rights to any person, organization or entity not a party to this Agreement, including, but not limited to, any citizen or employees of the

Owner and/or Contractor.

- 8.5 In no event shall the making by Owner of any payment to Contractor constitute or be construed as a waiver by Owner of any breach of covenant or any default which may then exist, on the part of Contractor, and the making of such payment by Owner while any such breach or default exists shall in no way impair or prejudice any right or remedy available to Owner with respect to such breach or default.
- 8.6 No waiver by either Contractor or Owner with respect to any breach or default of or with respect to any provisions or conditions of this Agreement shall be deemed to constitute a continuing waiver of any other breach or default of or with respect to the same or any other provision or condition of this Agreement. No claim or right arising out of a breach of this Agreement can be discharged in whole or in part by a waiver or renunciation of the claim or right unless the waiver or renunciation is supported by consideration and is in writing signed by the aggrieved party.
- 8.7 This Agreement, including exhibits and amendments, and all matters relating to the validity, interpretation, and performance of this Agreement (whether in contract, statute, tort, or otherwise) shall be governed and construed in accordance with the laws of the State of Florida, without giving effect to principles of conflict of laws. Venue for any legal action shall lie in Highlands County, Florida, and any proceedings to enforce or interpret any provision of the Contract Documents shall be brought exclusively in a court of competent jurisdiction in Highlands County, Florida.
- 8.8 Owner is an Equal Employment Opportunity (EEO) employer and as such encourages Contractor to voluntarily comply with EEO regulations with regards to gender, age, race, veteran status, country of origin, and creed. In addition, Contractor or anyone under its employ shall comply with all applicable rules, regulations, and promulgations thereby pertaining to the avoidance or appearance of sexual harassment or on the job discrimination. Contractor shall maintain a work environment free of discrimination or unwelcome action of a personal nature. Any subcontracts entered into shall make deference to this clause with the same degree of application being encouraged. When applicable, Contractor shall comply with all new state and federal EEO regulations.
- 8.9 Contractor may subcontract a portion of the Work to a subcontractor or subcontractors approved in advance, in writing by Engineer, but Contractor shall perform with its own employees and equipment work amounting to not less than forty percent (40%) of the total Contract amount.

Article 9. EMPLOYMENT ELIGIBILITY VERIFICATION

9.1 Definitions. As used in this Article:

- 9.1.1 Employee assigned to this Agreement means an employee who was hired after November 6, 1986, who is directly performing Work, in the United States, under this Agreement. An employee is not considered to be directly performing Work under this Agreement if the employee
- (a) Normally performs support work, such as indirect or overhead functions; and
 - (b) Does not perform any substantial duties applicable to the Agreement.

- 9.1.2 Subcontract means any contract entered into by a subcontractor to furnish supplies or services for performance of this Agreement or a subcontract under this Agreement. It includes but is not limited to purchase orders, and changes and modifications to purchase orders.
- 9.1.3 Subcontractor means any supplier, distributor, vendor, or firm that furnishes supplies or services to or for Contractor or another subcontractor.
- 9.1.4 United States, as defined in 8 U.S.C. 1101(a)(38), means the 50 States, the District of Columbia, Puerto Rico, Guam, and the U.S. Virgin Islands.
- 9.2 Enrollment and verification requirements.
- 9.2.1 Contractor must be enrolled in E-Verify at time of Contract award, and Contractor shall use E-Verify to initiate verification of employment eligibility of
- (a) All new employees.
 - (1) Enrolled 30 calendar days or more. Contractor shall initiate verification of employment eligibility of all new hires of Contractor, who are working in the State of Florida, whether or not assigned to this Agreement, within 3 business days after the date of hire; or
 - (2) Enrolled less than 30 calendar days. Within 30 calendar days after enrollment in E-Verify, Contractor shall initiate verification of employment eligibility of all new hires of Contractor who are working in the State of Florida, whether or not assigned to this Agreement, within 3 business days after the date of hire; or
 - (b) Employees assigned to this Agreement. For each employee assigned to this Agreement, Contractor shall initiate verification of employment eligibility, to the extent allowed by the E-Verify program, within 30 calendar days after date of Contract award or within 30 days after assignment to this Agreement, whichever date is later.
- 9.2.2 Contractor shall comply, for the period of performance of this Agreement, with the requirements of the E-Verify program MOU. Termination of Contractor's MOU and denial access to the E-Verify system by the Department of Homeland Security or the Social Security Administration or the U.S. Citizenship and Immigration Service is an event of default under this Agreement.
- 9.3 Website. Information on registration for and use of the E-Verify program can be obtained via the Internet at the U.S. Citizenship and Immigration Service's Web site: <http://www.uscis.gov>.
- 9.4 Individuals previously verified. Contractor is not required by this paragraph to perform additional employment verification using E-Verify for any employee whose employment eligibility was previously verified by Contractor through the E-Verify program.

9.5 Subcontracts. Contractor shall include, and shall require the inclusion of, the requirements of this Article, including this paragraph (9.5) (appropriately modified for identification of the parties), in each subcontract that includes work performed in the United States under this Agreement.

ADDENDUM NO. 1 - 05/19/2016

IN WITNESS WHEREOF, the parties of these presents have executed this Agreement in three (3) counterparts, each of which shall be deemed an original, but all of which constitute the same Agreement, in the year and day first shown and mentioned.

OWNER: HIGHLANDS COUNTY, A POLITICAL SUBDIVISION OF THE STATE OF FLORIDA, BY ITS BOARD OF COUNTY COMMISSIONERS

James L. Brooks, Chairman

Address for giving notices:
505 S. Commerce Avenue
Sebring, Florida 33870-3869

ATTEST:

Robert W. Germaine, Clerk

[SEAL]

CONTRACTOR:

Address for giving notices:

Print Name: _____
Print Title: _____

ATTEST:

[CORPORATE SEAL]

By: _____
Print Name: _____
Print Title: _____

APPROVED AS TO ADMINISTRATIVE POLICY

APPROVED AS TO FORM AND LEGAL SUFFICIENCY

June M. Fisher, County Administrator

J. Ross Macbeth, Board Attorney

AVAILABILITY OF FUNDS

APPROVED AS TO TECHNICAL PROVISIONS

Timothy R. Mechling, OMB Senior Manager

Ramon D. Gavarrete, P.E., County Engineer

APPROVED AS TO PURCHASING POLICIES

APPROVED AS TO RISK MANAGEMENT

Danielle K. Gilbert, Purchasing Manager

Sherri L. Bennett, Risk Mgmt. Coordinator

APPROVED AS TO MAINTENANCE

W. Kyle Green, Road and Bridge Superintendent

END OF SECTION