

SCALE: HORIZ. N/A VERT. N/A PROJECT NO. 11048

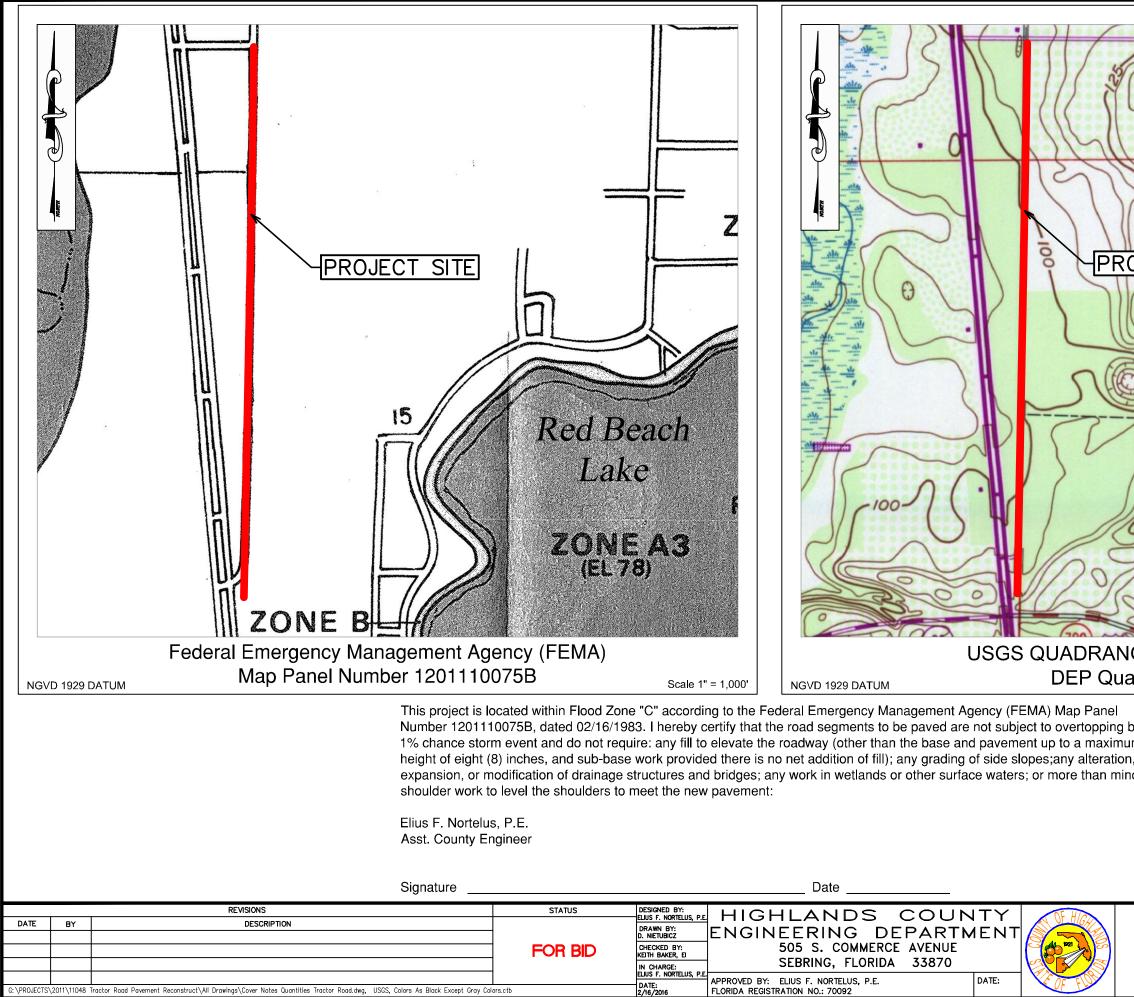
SHEET 1 OF 59

REV.

5020 KENILWORTH BLVD SEBRING, FL 33870 JEREMY ANDERSON 863-241-8152

Notification # <u>212400761</u> Call 48 hours before you dig. CHAPTER 556, FLORIDA STATUTES.

STATE LAW REQUIRES EXCAVATORS TO CALL 811 BEFORE DIGGING PER THE "UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT



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GLE NAME: SEBRING	
ad Index 2812	Scale 1" = 1,000'
by a m , or	
TRACTOR ROAD	SCALE: HORIZ. 1"=1000' VERT. N/A
IMPROVEMENTS F.E.M.A. FIRM MAP &	PROJECT NO. 11048 0
U.S.G.S. QUADRANGLE MAP	SHEET 2 OF 59

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.
- 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 Manaaer.
- 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
- All wash water (concrete trucks, vehicle cleaning, equipment cleaning, etc.) shall be detained and properly treated and disposed.
- The Contractor shall be responsible for the control of dust and dirt rising and scattering in the air during construction and shall provide water sprinkling or other suitable methods of control. The Contractor shall comply with all governing regulations pertaining to environmental protection.
- 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).
- 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.
- Grades shown are the finished grades, unless otherwise indicated.
- The Contractor shall remove survey stakes and erosion control items prior to the completion of the contract.
- 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.

UTILITIEŚ

- 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. 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.
- 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 necessarv

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.
- All cut or fill slopes shall be 4 (horizontal): 1 (vertical) or flatter unless otherwise shown.
- 3. Existing drainage structures within construction limits shall remain unless noted otherwise.

- 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
- Edition.
- Retro-reflective material shall be 3M brand Diamond Grade material.
- Sign substrate shall be aluminum. 6.
- Traffic signs shall be mounted on 3" diameter post with "Z" bar brackets. 7 Sign post underground support shall be 6" aluminum "Z" bar brackets (no concrete). 8.
- <u>SOD</u> 1.
- and grasses including tropical soda apple, shall be rejected for use on the spot. All areas within the project site shall be sodded unless indicated in these construction plans. TESTING
- of the test results shall be provided to the Highlands County Project Manager.
- of work or materials to conform with the plans and specifications. All copies of compaction, concrete and other required test results are to be sent to the Highlands County Project Manager directly from the testing agency.
- 4. Contractor shall perform Pavement Smoothness Testing: The Contractor shall furnish a 15 foot manual and a 15 foot rolling straightedge 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.

	TRACTOR ROAD IMPROVE
	CONTRACTOR REQUIRED QUALIT
Roadway Full Depth	Construction: TYPE B STABILIZATION (LB
TEST NAME	QUALITY CONTRO
DENSITY	FOURTEEN (14) PER LIFT, FOURT
THICKNESS	FOURTEEN (14) PER LIFT, FOURT
LBR	TWO (2) PER LIFT, TWO (2
Stabilization Construction Method: For mixing ex	ist. sub-base and base material provide heavy
Roadway Full De	pth Construction: OPTIONAL BASE GROUI
TEST NAME	QUALITY CONTRO
DENSITY	FOURTEEN (14) PER LIFT, FOUR
THICKNESS	FOURTEEN (14) PER LIFT, FOUR
LBR	ONE (1) PER MATERIAL
Optional Base Group 6 Construction Method: Cor	nstruct the base in one (1) lift with a compact
	/ Full Depth Construction: ASPHALT TESTI
TEST NAME	QUALITY CONTRO
THICKNESS	FOURTEEN (14) PER LIFT, FOUR
Asphalt Construction Method: Asphalt shall be pl	aced in one (1) lift with a compacted lift thickn
	Driveways: OPTIONAL BASE GROUP 6 TE
TEST NAME	QUALITY CONTRO
DENSITY	ONE (1) PER LIFT PER DRIVEWAY, 1
THICKNESS	ONE (1) PER LIFT PER DRIVEWAY, 1
Optional Base Group 6 Construction Method: Cor	nstruct the base in one (1) equal lift with a com
Residential	Driveways: OPTIONAL BASE GROUP 4 TE
TEST NAME	QUALITY CONTRC
DENSITY	ONE (1) PER LIFT PER DRIVEWAY,
THICKNESS	ONE (1) PER LIFT PER DRIVEWAY,

		REVISIONS	STATUS	DESIGNED BY: KEITH BAKER, E.I.	HIGHLANDS COUNTY	NE HIA
DATE	BY	DESCRIPTION			ENGINEERING DEPARTMENT	
			FOR BID	CHECKED BY: ELIUS F. NORTELUS, P.I IN CHARGE:	505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870	
\PROJECTS\201	1\11048 Tractor	Road Pavement Reconstruct/All Drawings\Cover Notes Quantities Tractor Road.dwg, GENERAL NOTES, Nietubicz, Douglas Colors As Black Except Gray Colors.ctb		ELIUS F. NORTELUS, P.I DATE: 2/16/2016	APPROVED BY: ELIUS F. NORTELUS, P.E. DATE: FLORIDA REGISTRATION NO.: 70092	E E

All pavement markings and signage shall be installed in accordance with the Manual on Uniform Traffic Control Devices (MUTCD). 2009

Temporary pavement markings and thermoplastic pavement markings shall be installed via truck mounted spray truck.

All disturbed areas within the project limits shall be sodded with "like kind" sod. The areas on which sod is to be placed shall be thoroughly wetted prior to and after placement is complete. No addition of top soil material is required prior to placement. All sod materials shall be subject to inspection by the Highlands County Project Manager prior to placement. Any sod with noxious weeds

1. Contractor shall perform, at his own expense, any and all tests required by the specifications and/or any agency having jurisdiction. A copy 2. The Highlands County Project Manager shall inspect all construction and is authorized to call to the attention of the Contractor any failure

and construct a smooth pavement meeting the requirements of the Florida Method of Test for Measurement of Pavement Smoothness with

TY CONTROL MATERIAL	STESTING				
BR 40) TESTING REQUIR	EMENTS (12" COMPACTED THICKNESS)				
OL	ACCEPTANCE				
RTEEN (14) TOTAL	Minimum density of 98% of the Modified Proctor maximum density				
RIEEN (14) TOTAL	as determined by FM 1-T 180, Method D				
RTEEN (14) TOTAL	No undertolerance of mixing depth is allowed. Do not exceed				
RILLIN (14) TOTAL	individual plan depth thickness by more than 2".				
(2) TOTAL	Undertolerence = 5.0				
y-duty rotary tiller or other	equipment approved by the Engineer as equally effective for this work.				
UP 6 TESTING REQUIRE	MENTS (8" COMPACTED THICKNESS)				
OL	ACCEPTANCE				
	Minimum density of 98% of the Modified Proctor maximum density				
RTEEN (14) TOTAL	as determined by FM 1-T 180, Method D				
RTEEN (14) TOTAL	Compacted lift thickness = 8", tolerance = 0.5"				
AL TYPE	No undertolerance allowed.				
ted lift thickness of eight (8) inches.				
TING REQUIREMENTS (1	.5" COMPACTED THICKNESS)				
OL	ACCEPTANCE				
RTEEN (14) TOTAL	Compacted lift thickness = 1.5", Tolerance = 0.3"				
(ness of 1.5".					
ESTING REQUIREMENT	S (8" COMPACTED THICKNESS)				
OL	ACCEPTANCE				
	Minimum density of 95% of the Modified Proctor maximum density				
TWELVE (12) TOTAL	as determined by FM 1-T 180. Method D				
TWELVE (12) TOTAL	Compacted lift thickness = 8", tolerance = 0.5"				
mpacted lift thickness of e	eight (8) inches.				
ESTING REQUIREMENT	S (6" COMPACTED THICKNESS)				
OL	ACCEPTANCE				
	Minimum density of 95% of the Modified Proctor maximum density				
Y, THREE (3) TOTAL	as determined by FM 1-T 180, Method D				
Y, THREE (3) TOTAL	Compacted lift thickness = 6", tolerance = 0.5"				

TRACTOR ROAD **IMPROVEMENTS**

GENERAL NOTES & SPECIFICATIONS

HORIZ. N/A VERT. N/A PROJECT NO. REV. 11048

SCALE

SHEET 3 OF 59

	TRACTOR ROAD IM PROVEMENTS HIGHLANDS COUNTY PROJECT NO. 11048					
TASK NO.	DESCRIPTION	QUANTITY	UNIT			
1	MOBILIZATION	1	LS			
2	BONDS & INSURANCE	1	LS			
3	SURVEY STAKING	1	LS			
4	MAINTENANCE OF TRAFFIC	1	LS			
5	TEMPORARY SEDIMENT BARRIER	12,000	LF			
6	CLEARING & GRUBBING (INCLUDING TREE REMOVAL)	1	LS			
	REGULAR EXCAVATION	1	LS			
8	MAILBOX, RELOCATE	5	EA			
9	REMOVAL OF EXISTING ASPHALT PAVEMENT	1	LS			
10	REMOVAL OF EXISTING CONCRETE PAVEMENT	1	LS			
11	TYPE B STABILIZATION, LBR 40 (12" COMPACTED THICKNESS, EXIST, SUB-BASE AND BASE TO BE USED FOR STABILIZING MATERIAL)	16,400	SY			
12	OPTIONAL BASE, BASE GROUP 4 (6" COMPACTED THICKNESS), RESIDENTIAL DRIVEWAY	120	SY			
	OPTIONAL BASE, BASE GROUP 6 (8" COMPACTED THICKNESS), COMMERCIAL DRIVEWAY	1,360	SY			
14	OPTIONAL BASE BASE GROUP 6 (8" COMPACTED THICKNESS)	15,100	SY			
15	SUPERPAVE A SPHALTIC CONCRETE, TYPE SP.9.5, 1%" COMPACTED THICKNESS (RAP 30% MAXIMUM)	1,300	TN			
	SUPERPAVE A SPHALTIC CONCRETE, TYPE SP.9.5, 1%" COMPACTED THICKNESS (RAP 30% MAXIMUM), COMMERCIAL DRIVEWAY	40	TN			
	INLETS, DITCH BOTTOM, TYPEC	8	EA			
	INLETS, VALLEY GUTTER, USF 5100 FRAME AND 6147 GRATE. INCLUDE BOTTOM STRUCTURE	2	EA			
19	18" x 12" REINFORCED CONCRETE PPE	496	LF			
20	HIGH-DENSITY POLYETHYLENE PIPE (HDPE), 15" DIA	420	LF			
	FRENCH DRAIN. 28" × 20" CMP. INCLUDE COURSE AGGREGATE AND FILTER FABRIC	450	1			
22	CONCRETE MTERED END SECTION. 18" x 12"	12	EA			
	CONCRETE DROP CURB	540	LF			
24	DRIVEWAY CONCRETE, 6" THICK INCLUDE 6" x 6" W1,4\W1,4 WELDED WIRE MESH, 3,000 PSI MIN.	120	SY			
	DRIVEWAY CONCRETE, 8" THICK INCLUDE 6" x 6" W1,41W1,4 WELDED WIRE MESH, 3,000 PSI MIN.	830	SY			
	RETRO-REFLECTIVE PAVEMENT MARKERS	200	1			
27	SINGLE POST SIGN, REWOVE	3	EA			
	SINGLE POST SIGN, F&I, STOP (R1-1), 30"x30"		EA			
	SINGLE POST SIGN, F&I, SPEED LIMIT, 35 MPH (R2-1), 24"x30"	4	EA			
	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 6"	12.000	LF			
	TEMPORARY PAINTED PAVEMENT MARKINGS, STD. WHITE SOLID, 24"	150	1			
	TEMPORARY PAINTED PAVEMENT MARKINGS STD YELLOW, SOLD 6"	2.000	1			
	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, Y LLOW, SKP, 6"	5,500				
	THERMORY STANDARD, WHIE SOLD, 6"	12,000	1			
	THERMOPLASTIC STANDARD, WHITE SOLD, 24"	150	1			
	THERMORIANTIC, STATUSTIC, WHITE, GOLD, 24	2,000	1			
	THERMOPLASTIC, STANDARD, YELLOW, SCIEP, 6"	5,500				
	PERFORMACE TURK (SOD)	15.000	1			

Deductive Alternate No. 1:

Asphalt (Superpave Asphalt Concrete, 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 ½" 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.

MATERIAL	PROPERTY	MINIMUM TESTING FREQUENCY
Asphalt Mix	Asphalt Binder Content	If daily production > 100 tons, once per day, If o
Asphalt Mix	Gradation	If daily production > 100 tons, once per day, If o
Asphalt Mix	Temperature	Each of first 5 loads, then once every 5 loads the

- 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.
- 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.

price at that time, not to exceed \$75.00/ton.

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

- 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				
-		Depth > 0.4 mch	Remove and replace 1.5 inch the full lane width for the area plus 50 fee on each end.				
Settlement / Depression	Depth of settlement / depression to be determined by a 6 foot manual straightedge.	$Depth \ge 1/2$ inch	Propose the method of correction to the PROJECT MANAGER approval prior to beginning remedial work.				
			Remove and replace the distressed length to the full depth of all layer, and to the full lane width.				
Raveling / Surface Deterioration	Visual Inspection		Remove and replace the distressed area(s) to the full distressed depth ar the full lane width for the full distressed length plus 50° on each end.				

REVISIONS	STATUS	DESIGNED BY: KEITH BAKER, E.I.	HIGHLANDS COUI		
DATE BY DESCRIPTION					i
		DRAWN BY: Keith Baker, E.I.	ENGINEERING DEPART	MENI	i -
		CHECKED BY: ELIUS F. NORTELUS, P.E	505 S. COMMERCE AVENUE		ł
		IN CHARGE:	SEBRING, FLORIDA 33870		i i
		ELIUS F. NORTELUS, P.E	APPROVED BY: ELIUS F. NORTELUS, P.E.	DATE:	i i
ROJECTS\2011\11048 Tractor Road Pavement Reconstruct\All Drawings\Cover Notes Quantities Tractor Road.dwg, 4 Cover Notes Quantities Tractor Road - QNTY TEST UTLTY COMP, Nietubi	z, Douglas Colors As Black Except Gray Colors.ctb	DATE: 2/16/2016	FLORIDA REGISTRATION NO.: 70092		<u> </u>

daily production > 1,000 tons, twice per day. *
daily production > 1,000 tons, twice per day. *
ereafter, per day per mix design.
cumulative quantity of greater than 100 tons,

1.6 CONTRACTOR shall notify the PROJECT MANAGER (kjpaker@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 \$75.00/ton or the current unit price at that time, not to exceed \$75.00/ton. CONTRACTOR shall provide an estimated quantity of asphalt to OWNER when

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

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 \$75.00/ton or the current unit

FOLERANCE 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

> TRACTOR ROAD IMPROVEMENTS TABULATION OF QUANTITIES AND **DEDUCTIVE ALTERNATE NO. 1**

SCALE: HORIZ. N/A VERT. N/A	
PROJECT NO. 11048	REV. 0
SHEET 4 OF	59

							SY	MBOL LEGEND]
			ониониониониони	OVERHEAD WIRES			•	CONTROL POINT	A.D.
							·	CONCRETE MONUMENT	BFS
			BEBEBEBE	BURIED ELECTRIC			0	IRON ROD OR IRON PIPE	BL
			CASCASCASCAS	CONDUIT & CASEMENTS			۲	NAIL AND DISK	BNC
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			wwww	WATER LINE				FLAG SEWER	ENC
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							TB	ELECTRIC BOX TELEPHONE BOX	MES M/R/W
				WOOD FENCE			TV	TELEVISION BOX	PAVT
				EXISTING TOP OF BANK			TS	TRAFFIC SIGNAL BOX	PC
			· _ · · · _ · · _ · · · · · · · _ · _ · · · _ · _ · _ · _ · _ · _ · · · · · · · ·	EXISTING TOE OF SLOPE			/×w\	PEDESTRIAN CROSSWALK	
					BOCK		¢	LIGHT POLE	PR.
				EXISTING EDGE OF SHEL	LRUCK		D	MANHOLE DRAINAGE	PT
				EXISTING RIGHT OF WAY	LINE		M	MANHOLE OTHER	PVC
				PROPOSED RIGHT OF WA	Y LINE		S	MANHOLE SEWER	PVI
				EXISTING GRADE AT R/W			T	MANHOLE TELEPHONE	PVT
								MONITORING WELL	R/W
				EXISTING GRADE AT R/W	LT (PROFILE VIEW)		6	UTILITY POLE	RC
				EXISTING GRADE AT CON	IST BL (PROFILE VIE\	N)		WATER METER	RCP
				EXISTING CONTOURS WI	TH ELEVATIONS		×	WATER VALVE	RT
			149						STA
			149	PROPOSED CONTOURS V	VITH ELEVATIONS		+0.0	EXISTING GRADE SHOT PROPOSED ELEVATIONS	TYP
				EXISTING GUARDRAIL			0.00	BOLLARD	
				EXISTING EASEMENT				MAIL BOX	
				GOVERNMENT FRACTION				SIGN	
								MITERED END SECTION	
				LOT LINES				GUY ANCHOR	
				PROPOSED SOD SHOULD	ER LINE				
			_ · · · · · · ·	PROPOSED TOE OF SLOP	ΡE				
				PROFILE GRADE LINE (PF	OFILE VIEW)				
				PROPOSED CURVE RETU	RN				
				PROPOSED CENTERLINE	OR BASELINE				
				TEMPORARY SEDIMENT	BARRIER				
			REVISIONS	STATUS	DESIGNED BY:				
DATE	BY		DESCRIPTION		DESIGNED BY: ELIUS F. NORTELUS, P.E. DRAWN BY:			S COUNTY DEPARTMEN	r Charles I
				FOR BID	DOUG NIETUBICZ E I CHECKED BY: KEITH BAKER, E.I.	505	S. COMME	RCE AVENUE	
					IN CHARGE:			RIDA 33870	
G: \PROJECTS\20	 11\11048 Tractor	r Road Pavement Re	Reconstruct/All Drawings/Cover Notes Quantities Tractor Road.dwg, 5 LEGEND, Nietubicz, Douglas Colors As Black Except Gray Colors.ctb		APPI	ROVED BY: ELIUS F. RIDA REGISTRATION N	NORTELUS, P. 0.: 70092	E. DATE:	OF FUS

	ABBREVIATIONS
).	ALGEBRAIC DIFFERENCE
5	BEGIN FULL SUPER
	BASELINE
5	BEGIN NORMAL CROWN
P	CORRUGATED METAL PIPE
C.	CONCRETE
ST.	CONSTRUCTION
6	END FULL SUPER
v	ELEVATION
C	END NORMAL CROWN
	EXISTING
Έ	HIGH DENSITY POLYETHYLENE PIPE
	LONG CHORD
	LEFT
S	MITERED END SECTION
w	MAINTAINED RIGHT OF WAY
т	PAVEMENT
;	POINT OF CURVATURE
L	PROFILE GRADE LINE
	PROPOSED
	POINT OF TANGENCY
2	POINT OF VERTICAL CURVE
I	POINT OF VERTICAL INTERSECTION
г	POINT OF VERTICAL TANGENCY
v	RIGHT OF WAY
;	REVERSE CROWN
P	REINFORCED CONCRETE PIPE
•	RIGHT
4	STATION
5	TYPICAL
	HATCH LEGEND

PROPOSED ASPHALT PAVING

PROPOSED CONCRETE

EXISTING CONCRETE DRIVEWAY

EXISTING SHELL ROCK

TRACTOR ROAD IMPROVEMENTS LEGEND

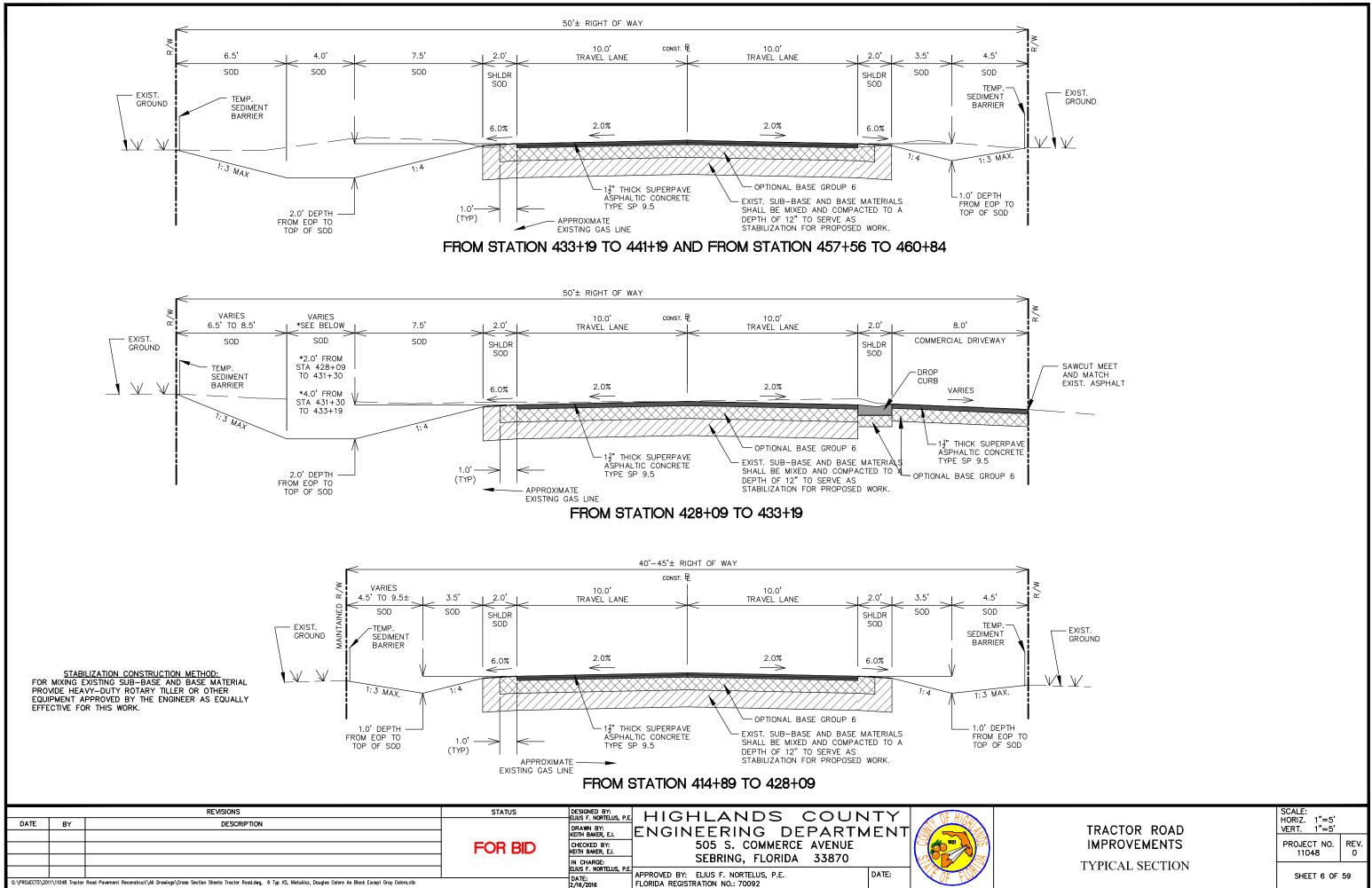
 SCALE:

 HORIZ.
 1"=40'

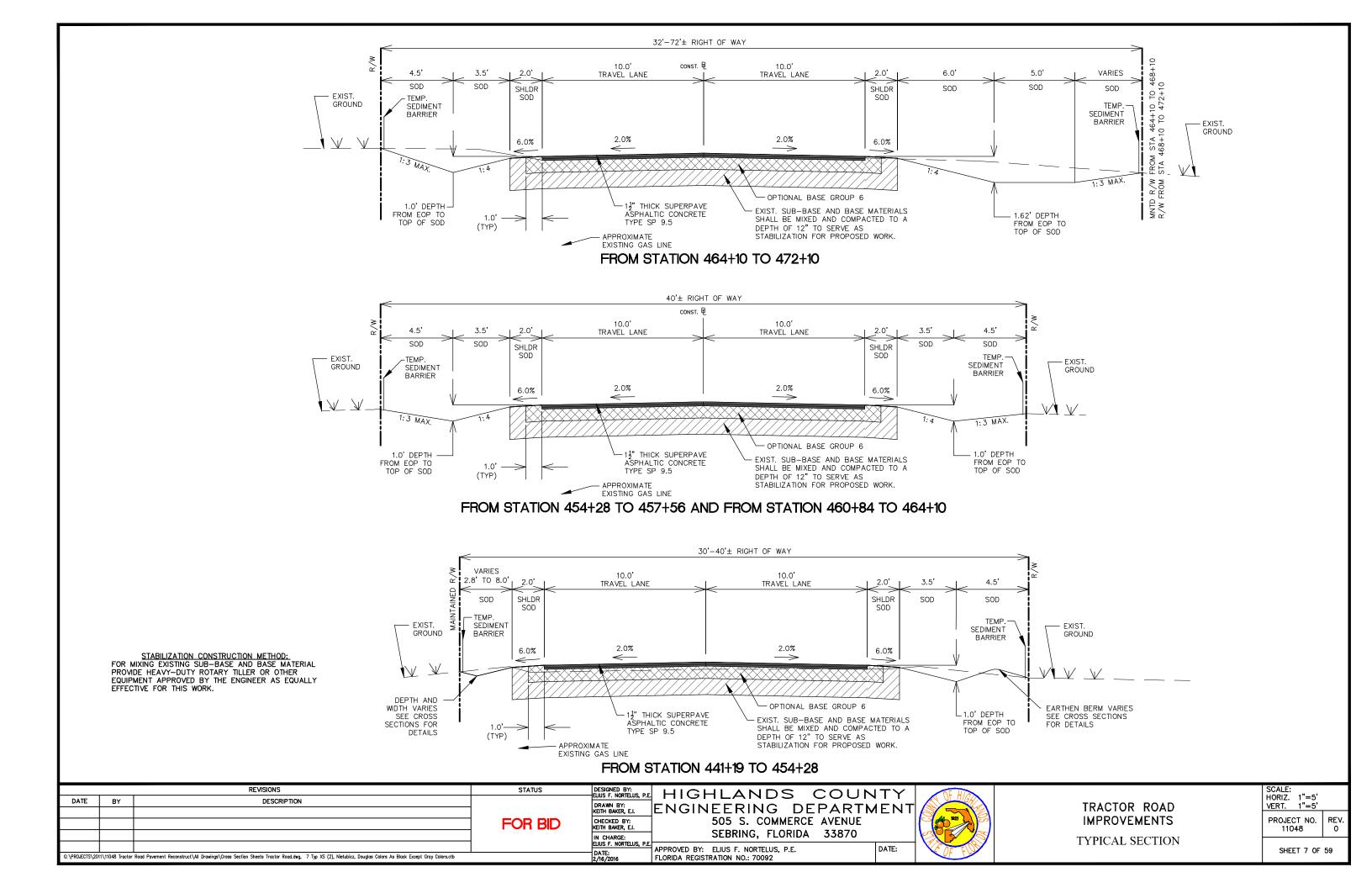
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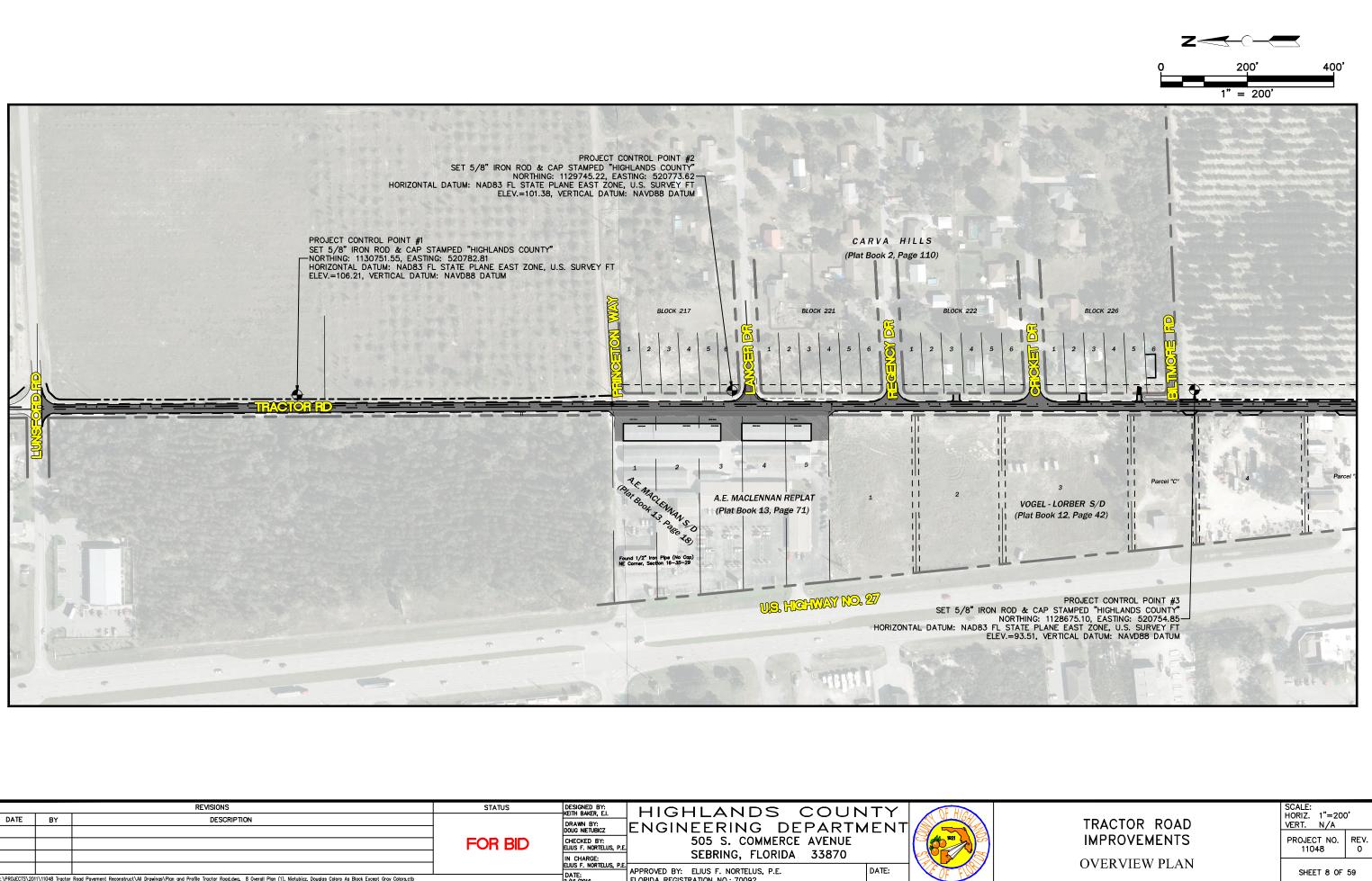
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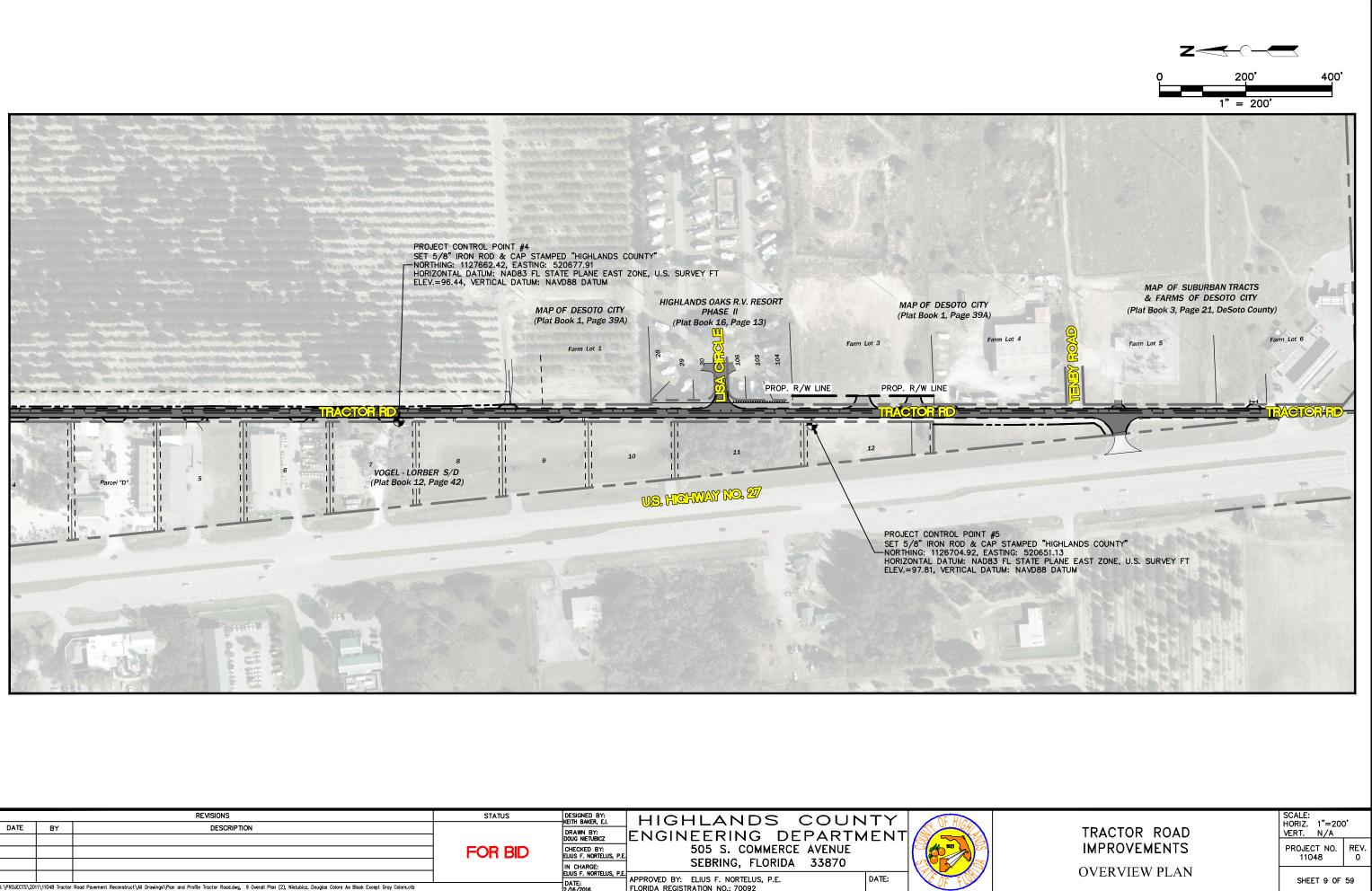


SHEET (3 OF 5
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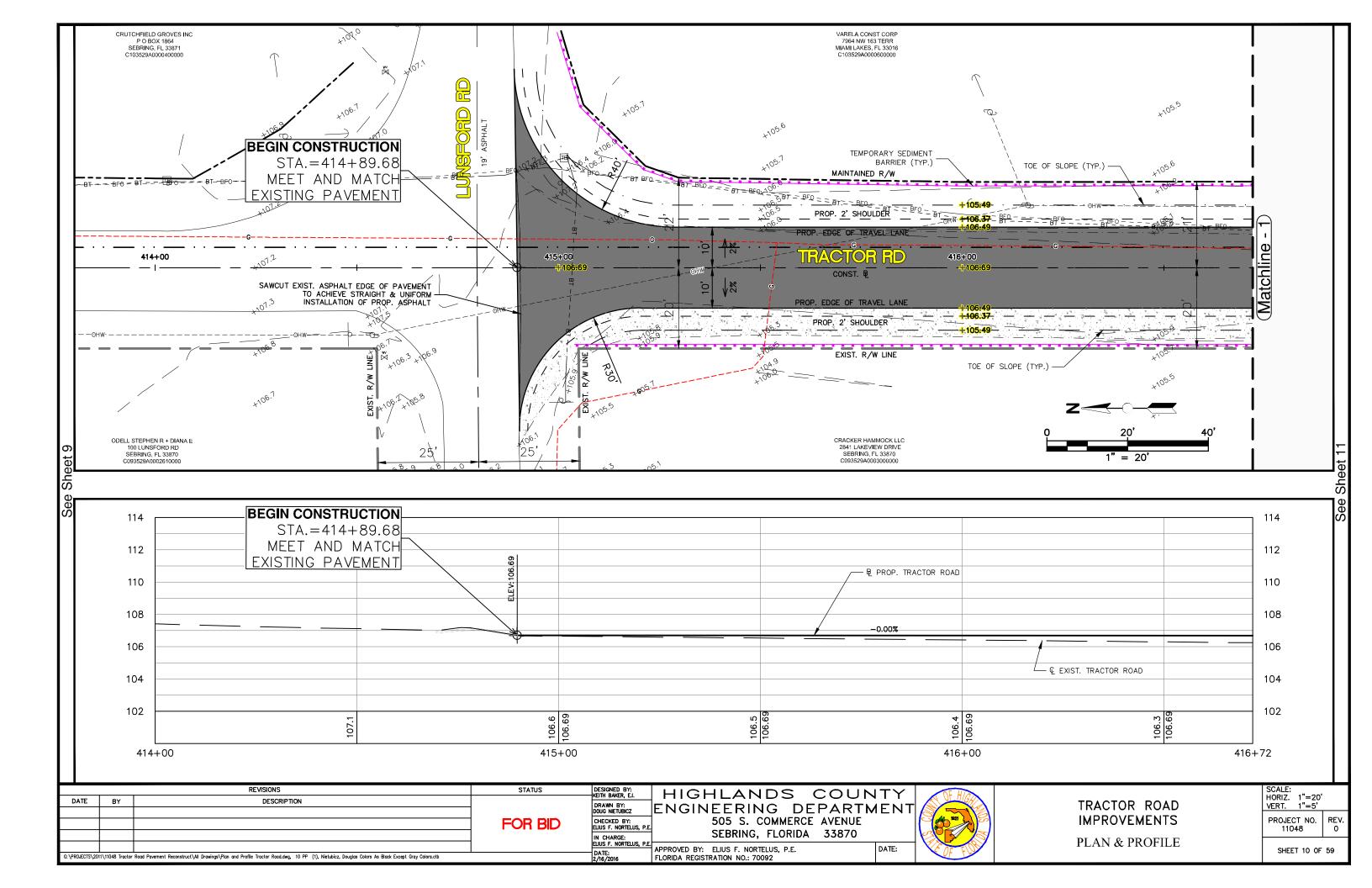


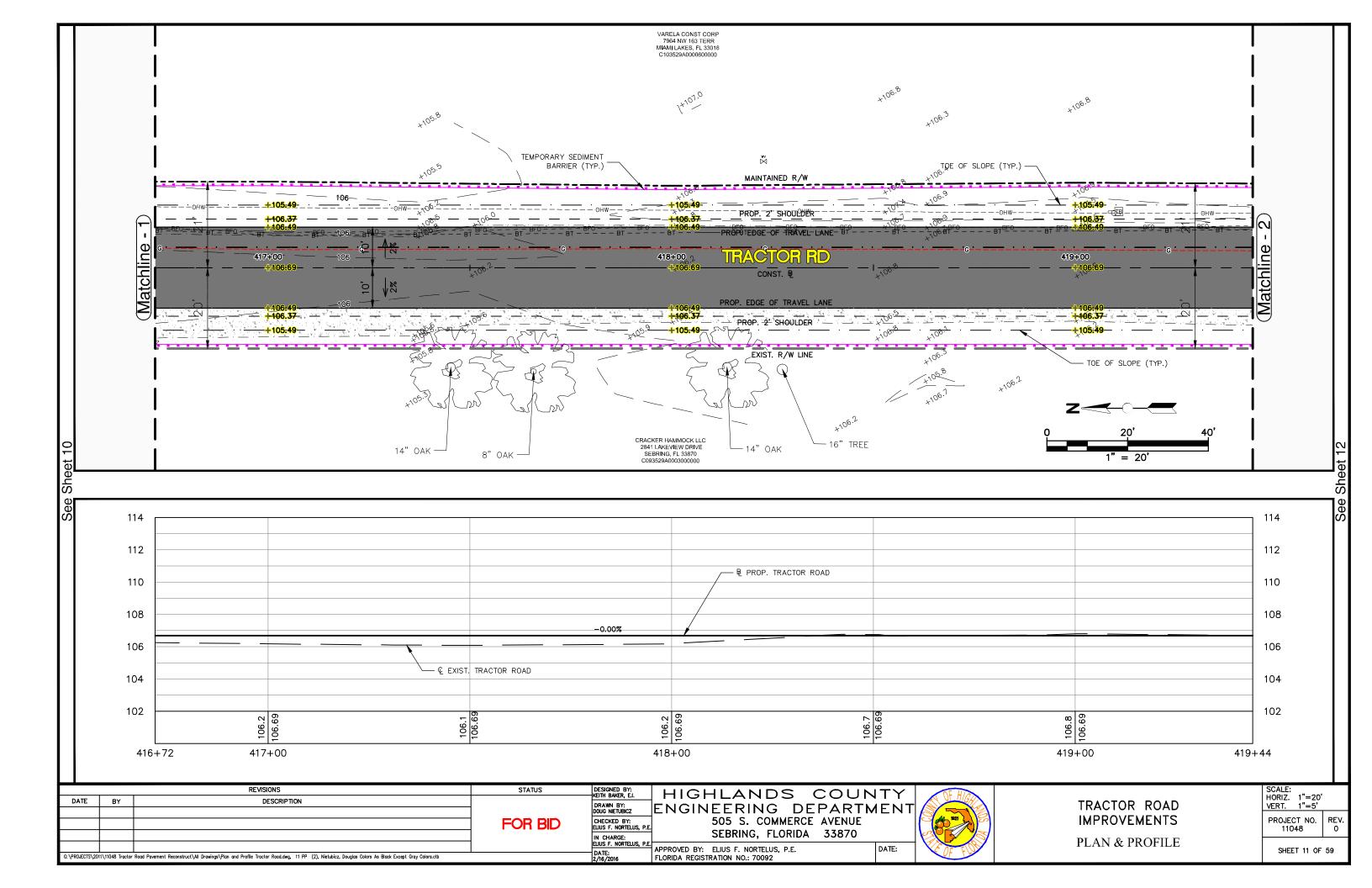


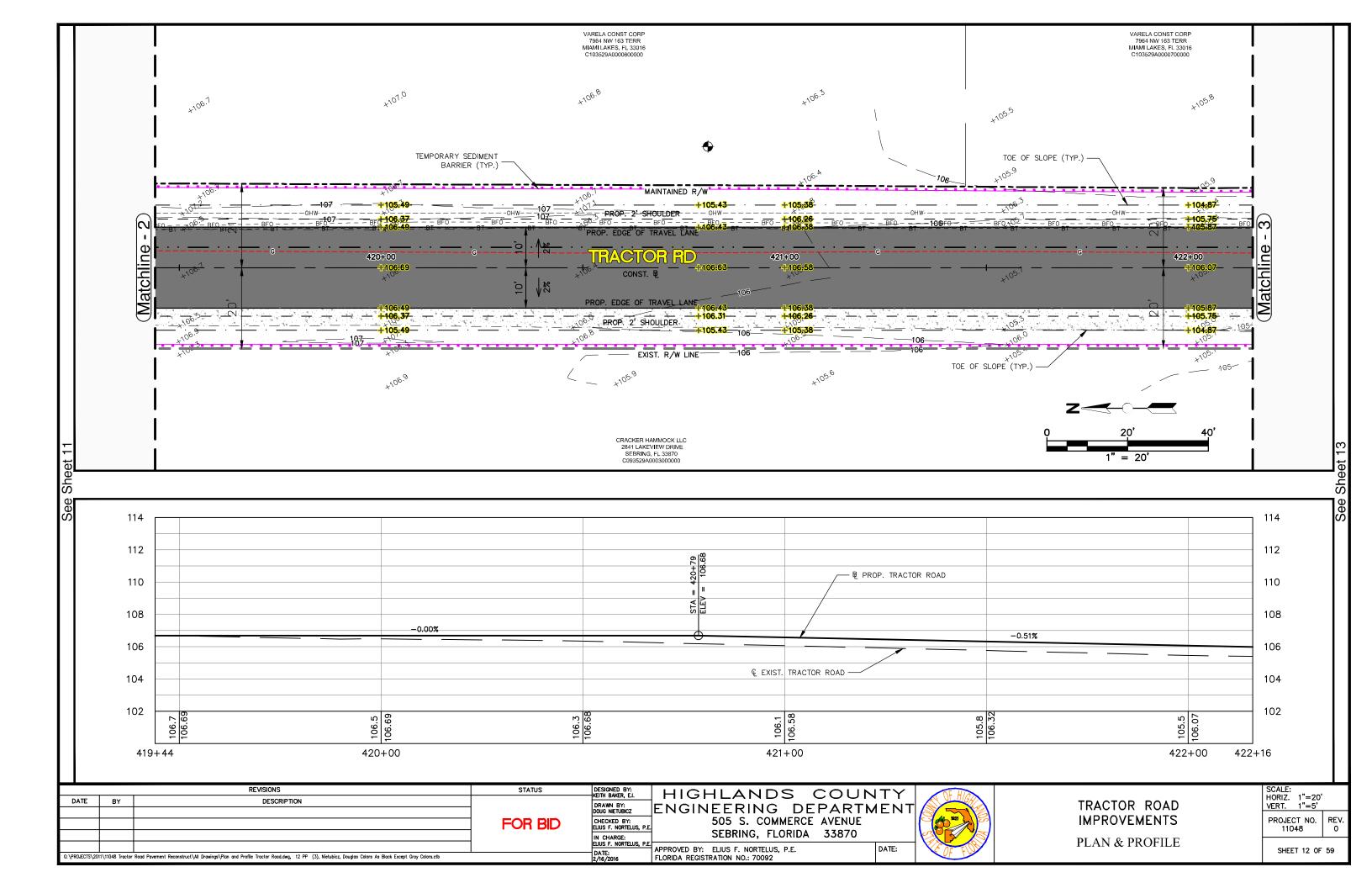
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DATE	BY	DESCRIPTION		· · ·		
					ENGINEERING DEPARTMENT	
			FOR BID	CHECKED BY: ELIUS F. NORTELUS, P.E.	505 S. COMMERCE AVENUE	
				IN CHARGE:	1 SEBRING, FLORIDA 33870	
				ELIUS F. NORTELUS, P.E.	APPROVED BY: ELIUS F. NORTELUS, P.E. DATE:	
G: \PROJECTS\201	G:\PROJECTS\2011\11048 Tractor Road Pavement Reconstruct\All Drawings\Plan and Profile Tractor Road.dwg, 8 Overall Plan (1), Nietubicz, Douglas Colors As Black Except Gray Colors.ctb				FLORIDA REGISTRATION NO.: 70092	

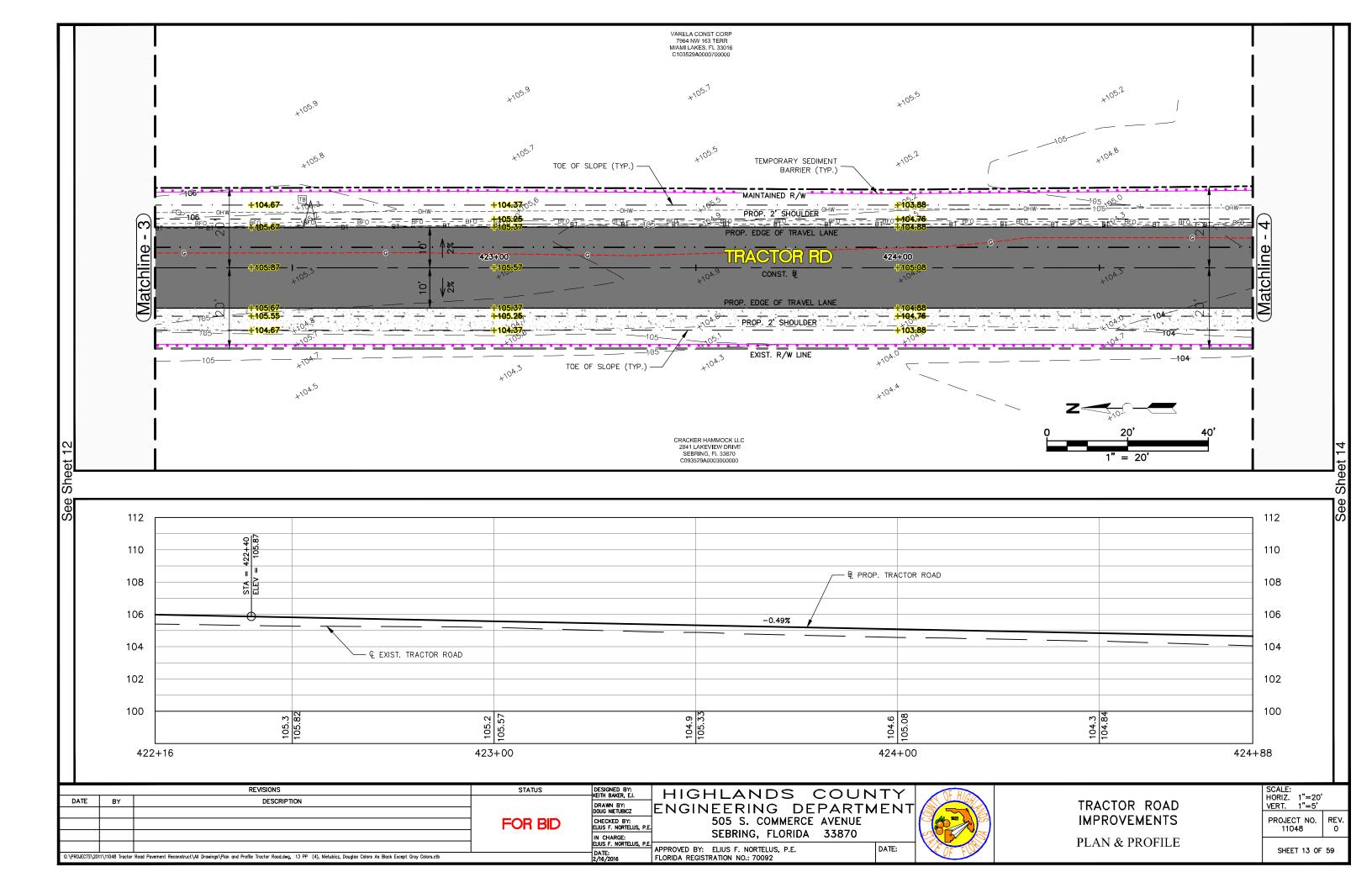


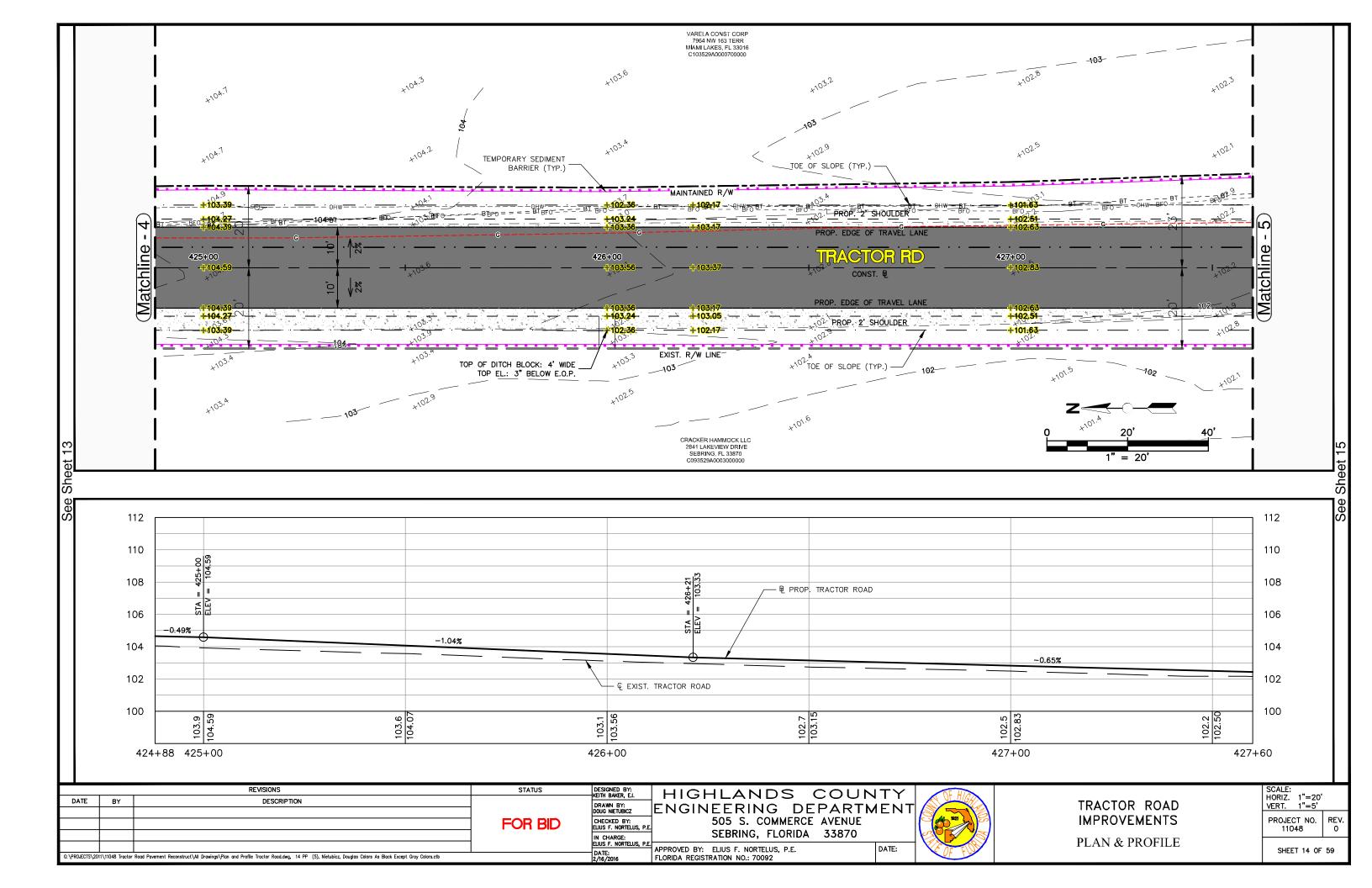
		REVISIONS	STATUS	DESIGNED BY: KEITH BAKER, E.I.	HIGHLANDS COUNTY	NE HIA
DATE	BY	DESCRIPTION				
				DOUG NIETUBICZ	ENGINEERING DEPARTMENT	
			FOR BID	CHECKED BY: ELIUS F. NORTELUS, P.E.	505 S. COMMERCE AVENUE	
				IN CHARGE:	SEBRING, FLORIDA 33870	
				ELIUS F. NORTELUS, P.E.	APPROVED BY: ELIUS F. NORTELUS, P.E. DATE:	
G:\PRQJECTS\2011\11048 Tractor Road Pavement Reconstruct\All Drawings\Plan and Profile Tractor Road.dwg. 9 Overall Plan (2), Nietubicz, Douglas Colors As Black Except Gray Colors.ctb			FLORIDA REGISTRATION NO.: 70092	UFFL		

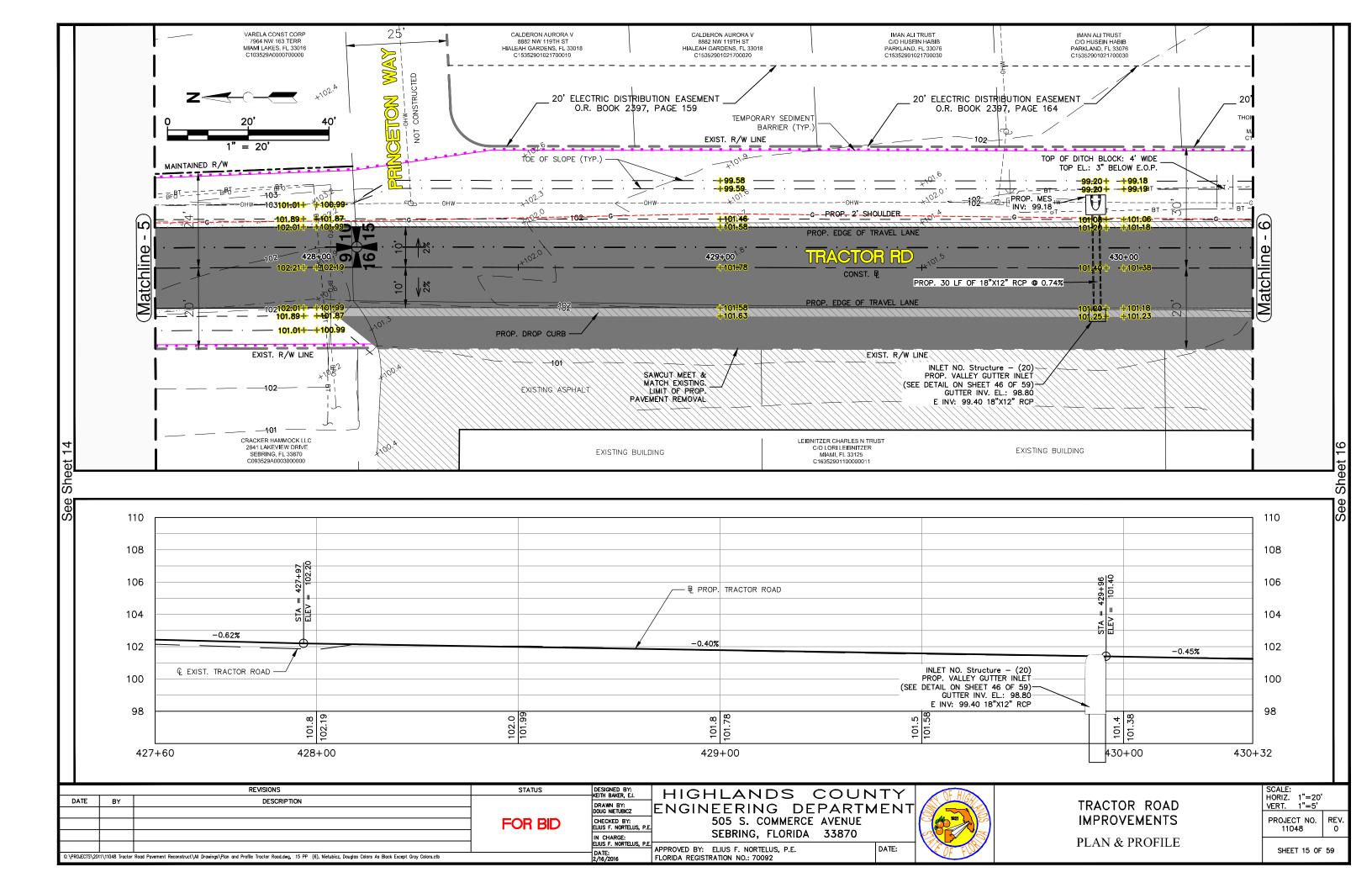


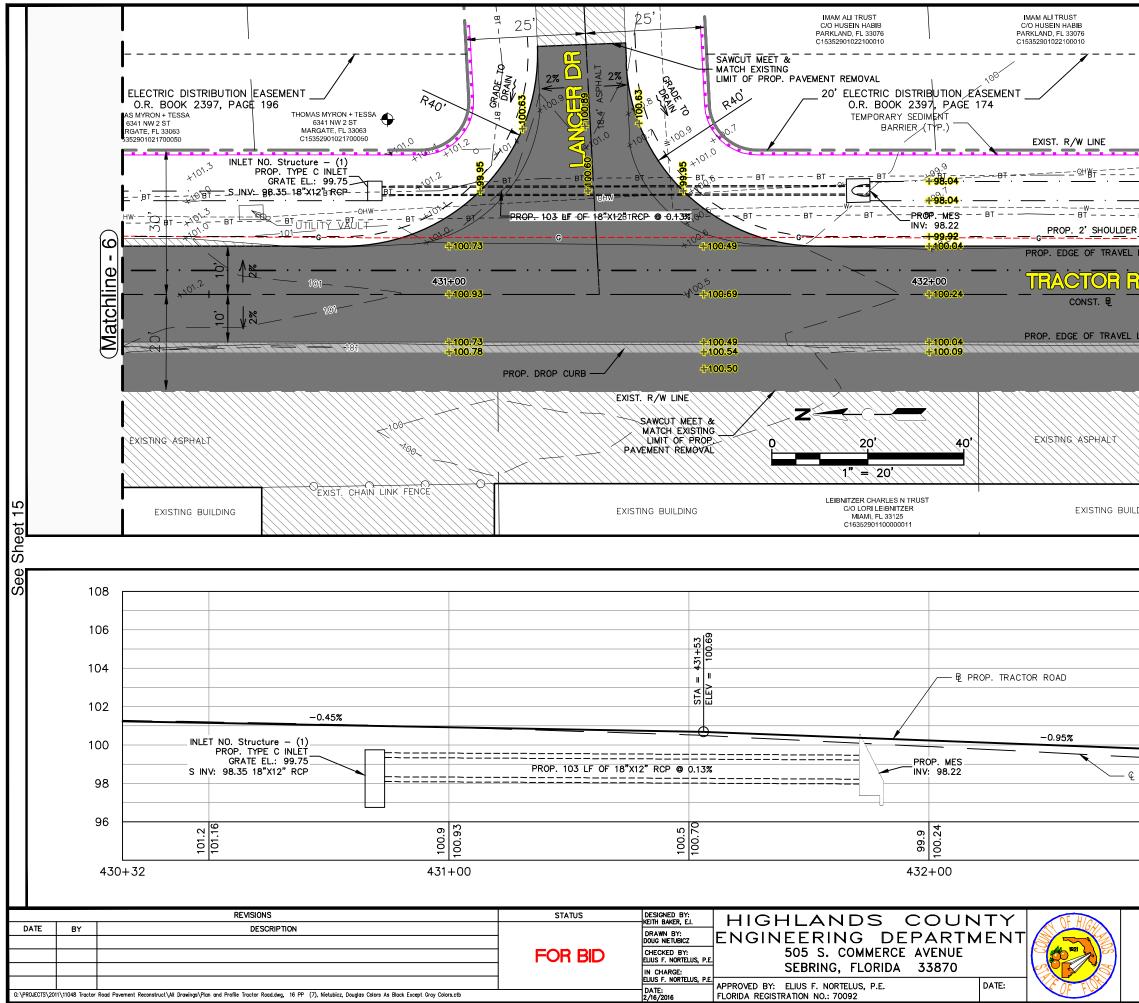




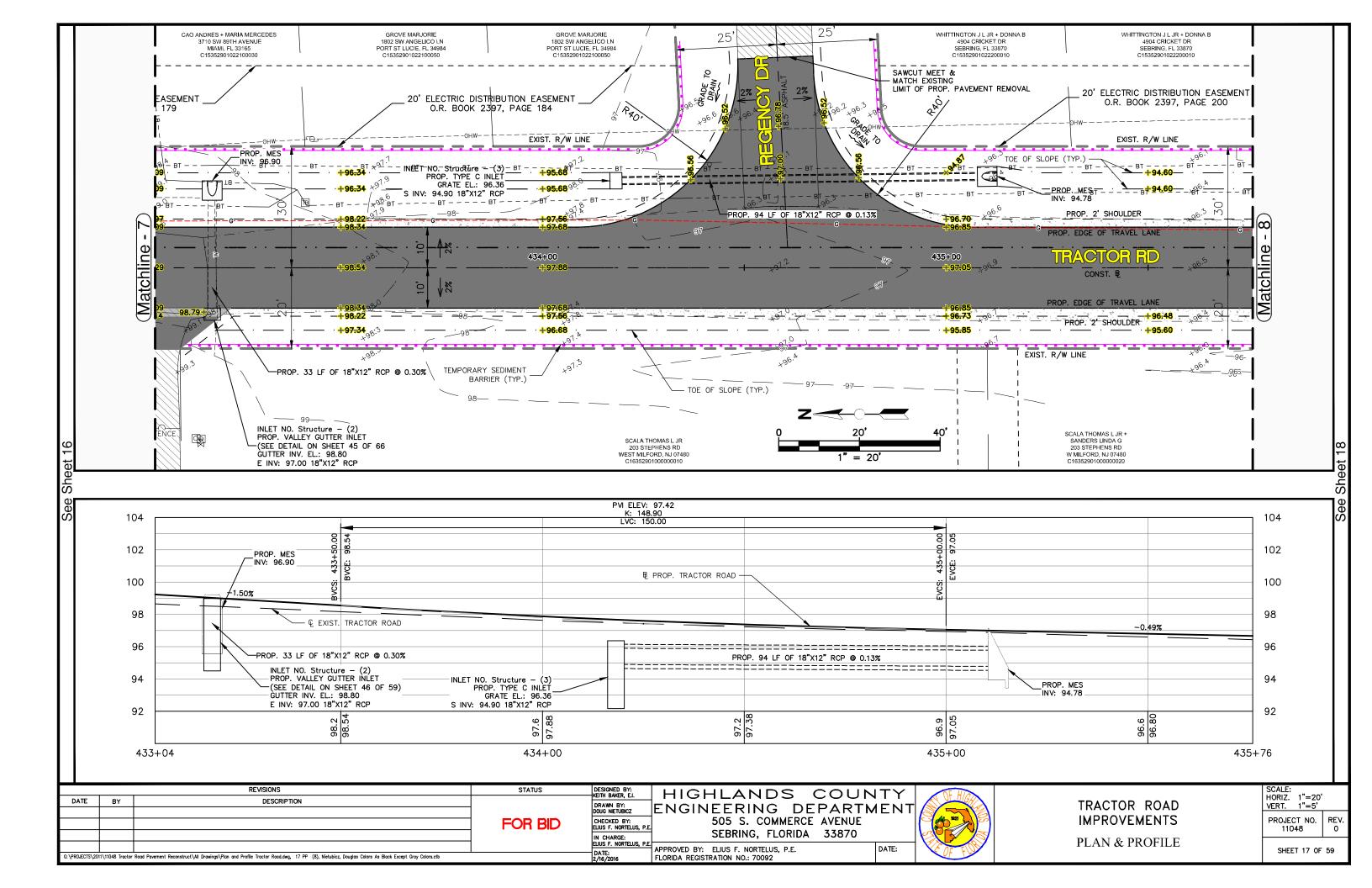


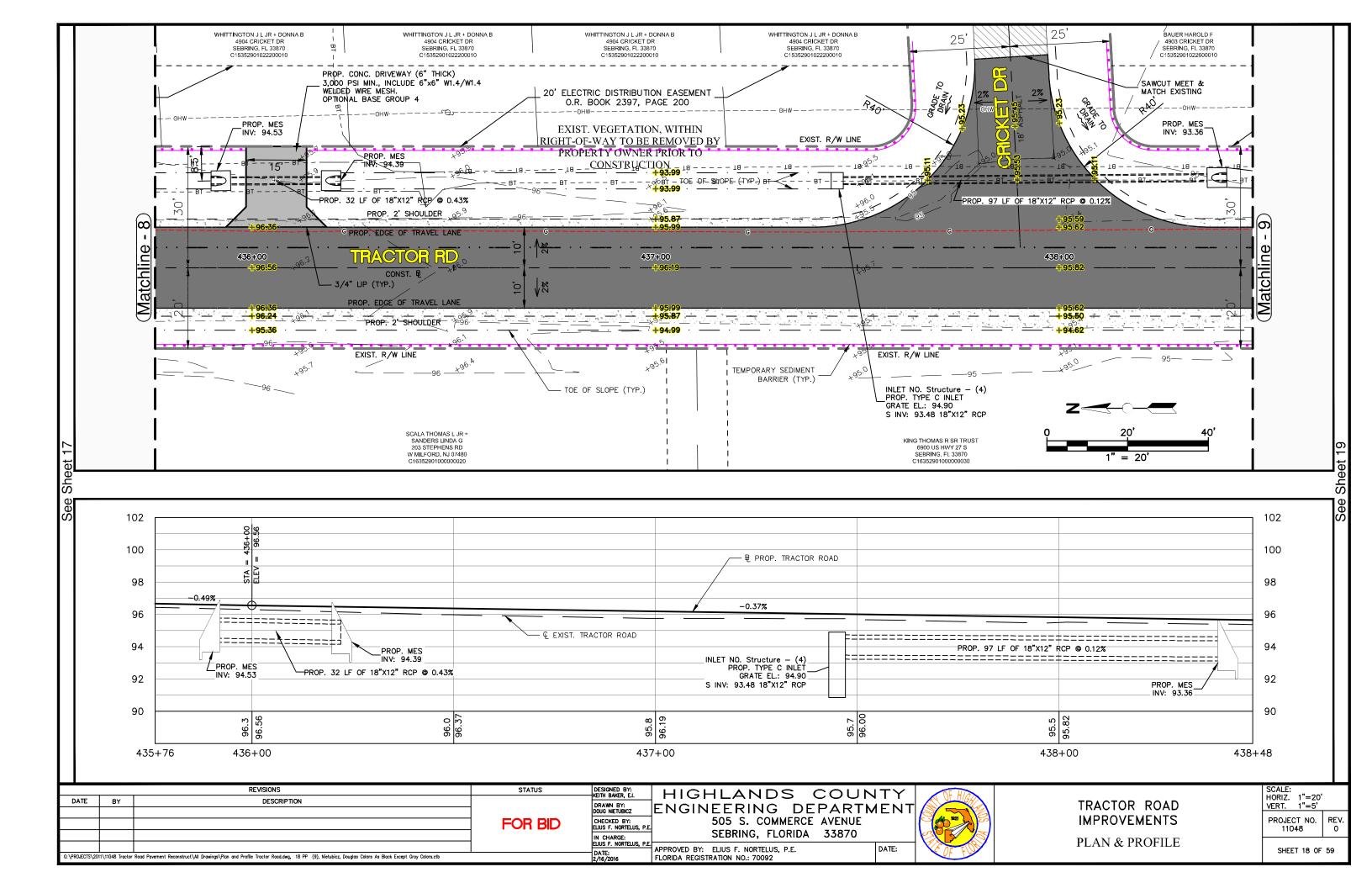


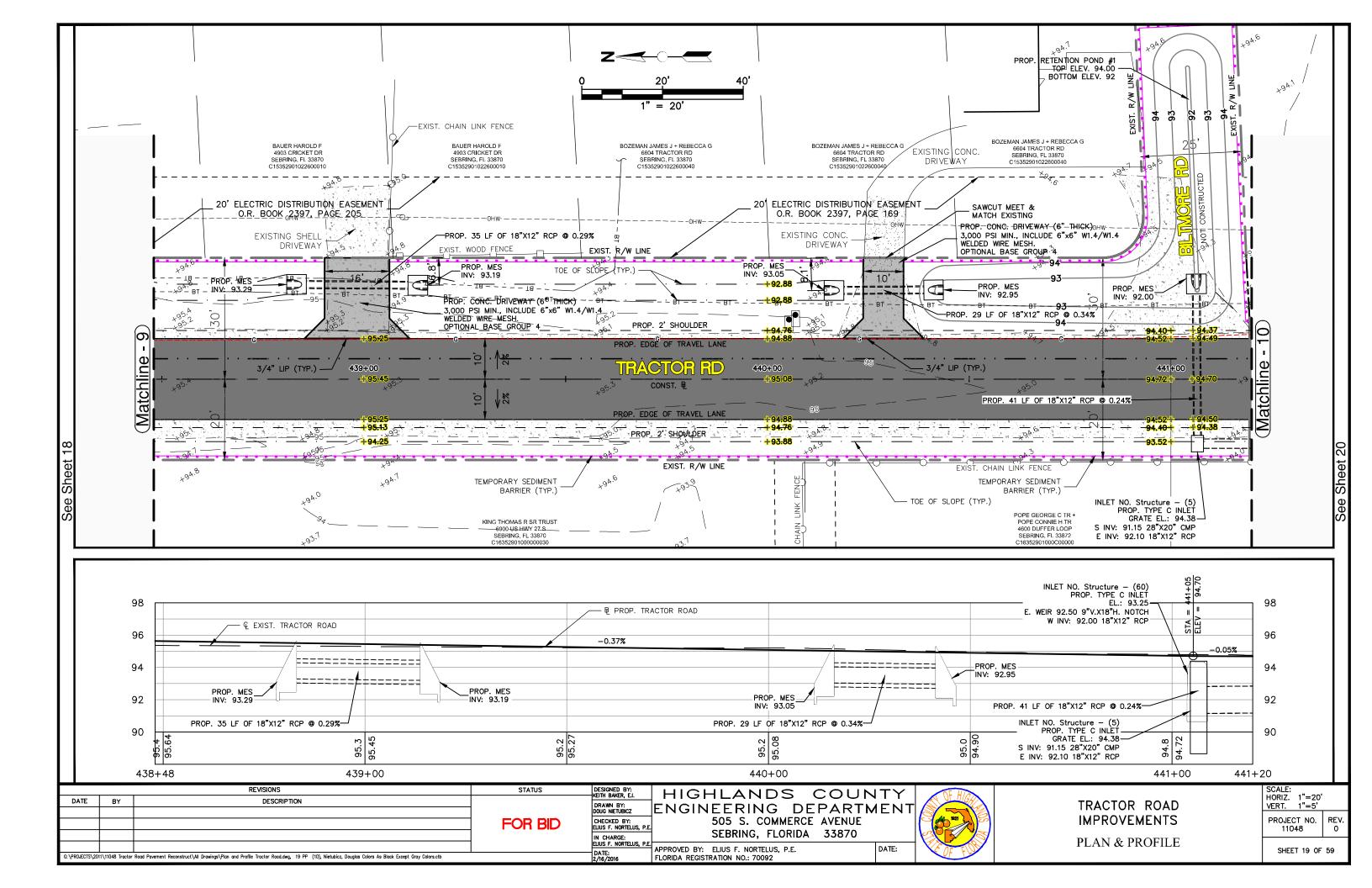


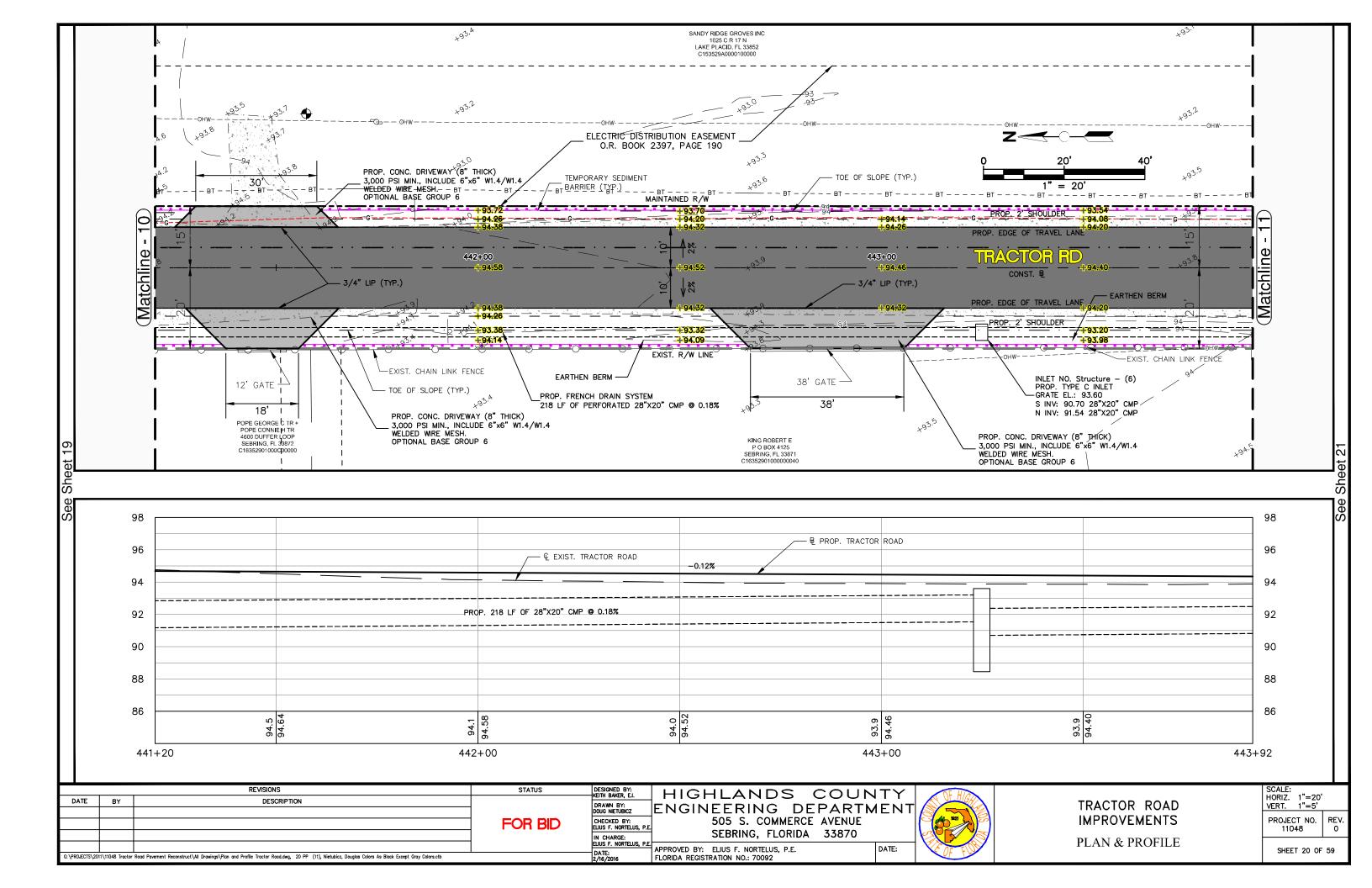


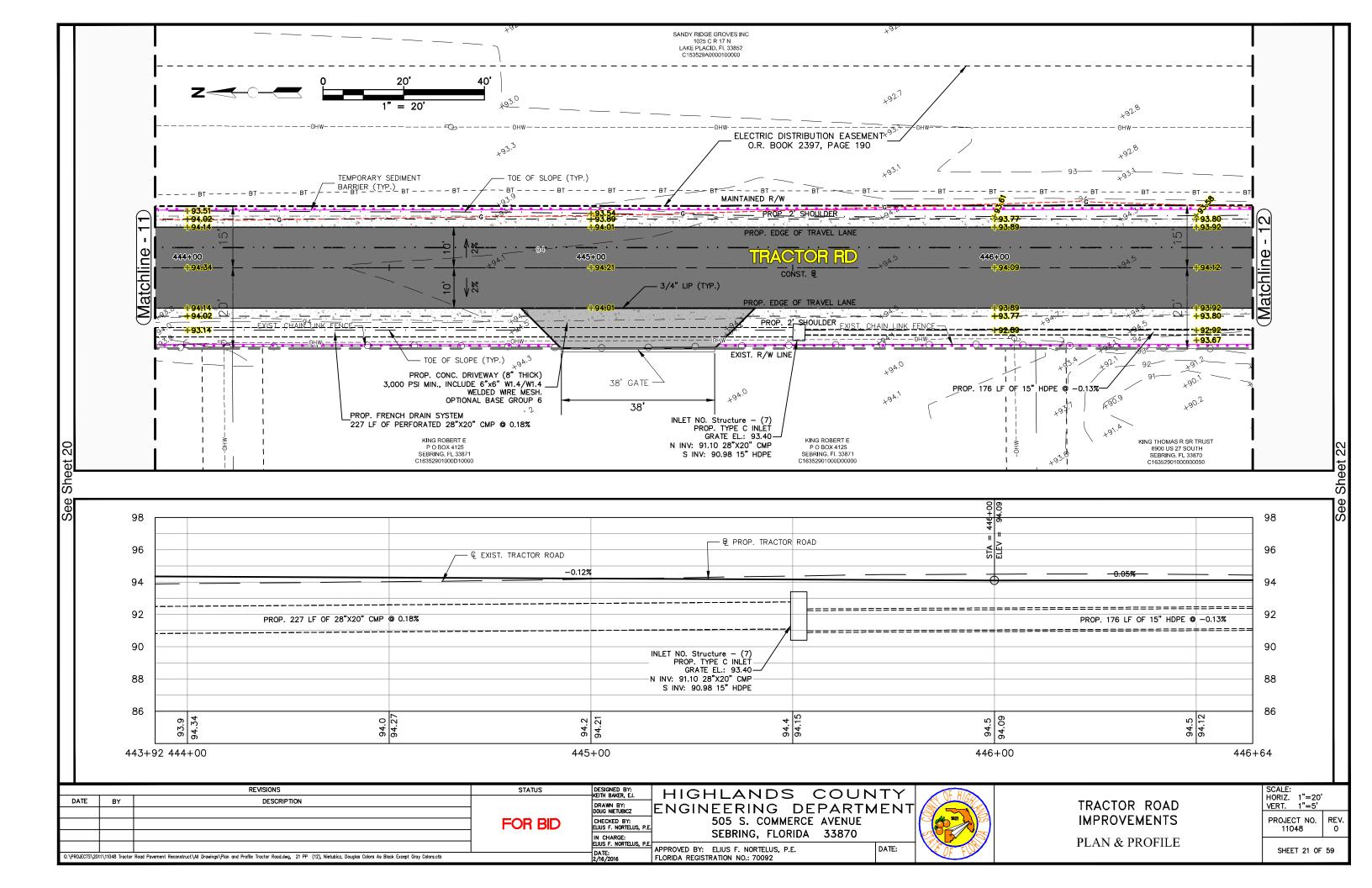
CAO ANDRES + MARIA MERCEDES 3710 SW 89TH AVENUE MMM, FL 33185 C1535290102210030 20' ELECTRIC DISTRIBUTION O.R. BOOK 2397, PAGE BT	Matchine - /)	st 17
	108	See Sheet 17
	108	
433+00 99:29	104	
=	102	
	100	
EXIST. TRACTOR ROAD	98	
8.7 .29	96	
<u>v: [/. 86 66 86 86 67 66 86 67 66 86 67 66 86 67 66 86 67 66 86 67 68 68 68 68 68 68 68 68 68 68 68 68 68 </u>	3+04	
TRACTOR ROAD	SCALE: HORIZ. 1"=20' VERT. 1"=5'	
IMPROVEMENTS		EV. 0
PLAN & PROFILE	SHEET 16 OF 59	

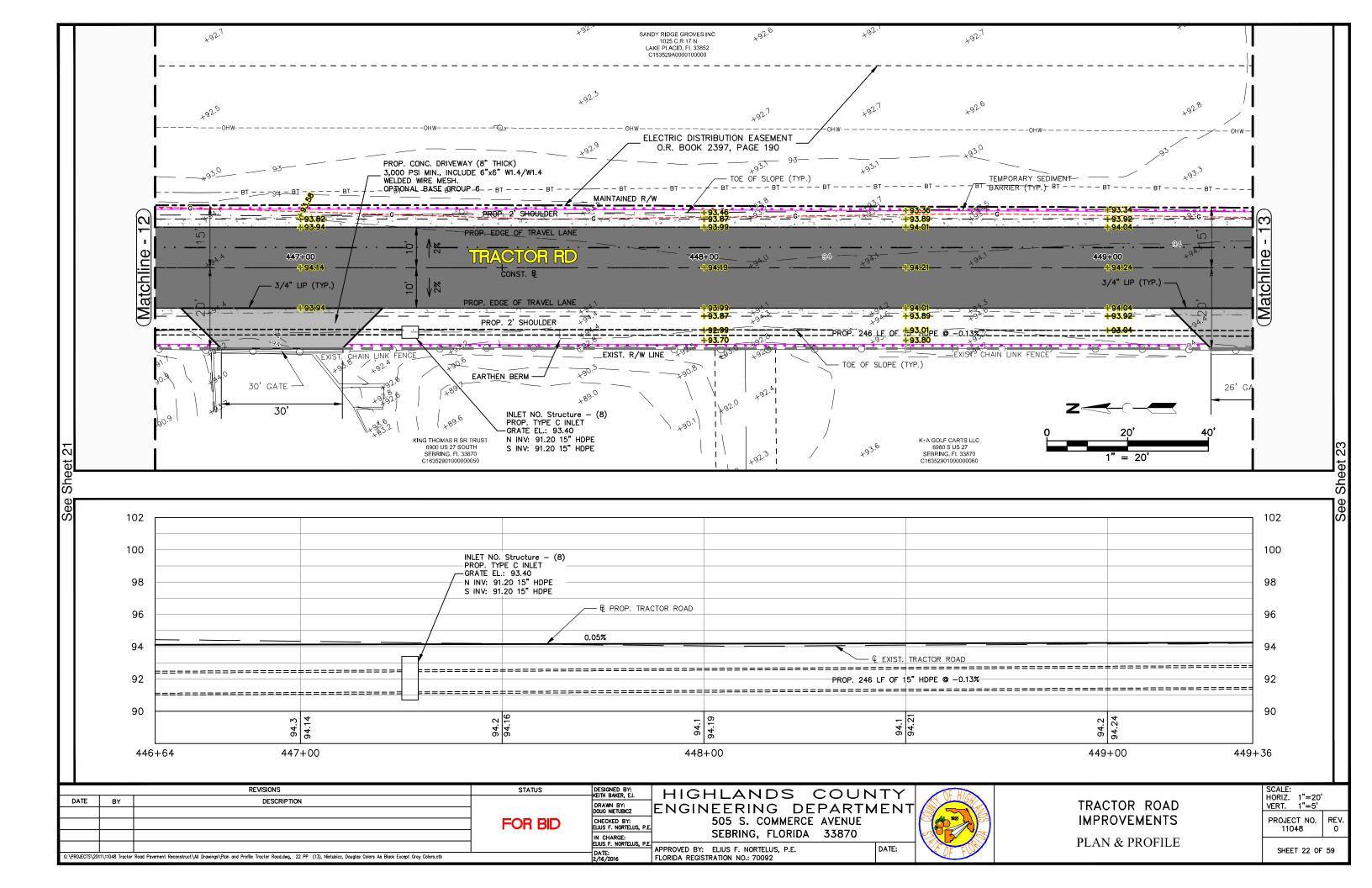


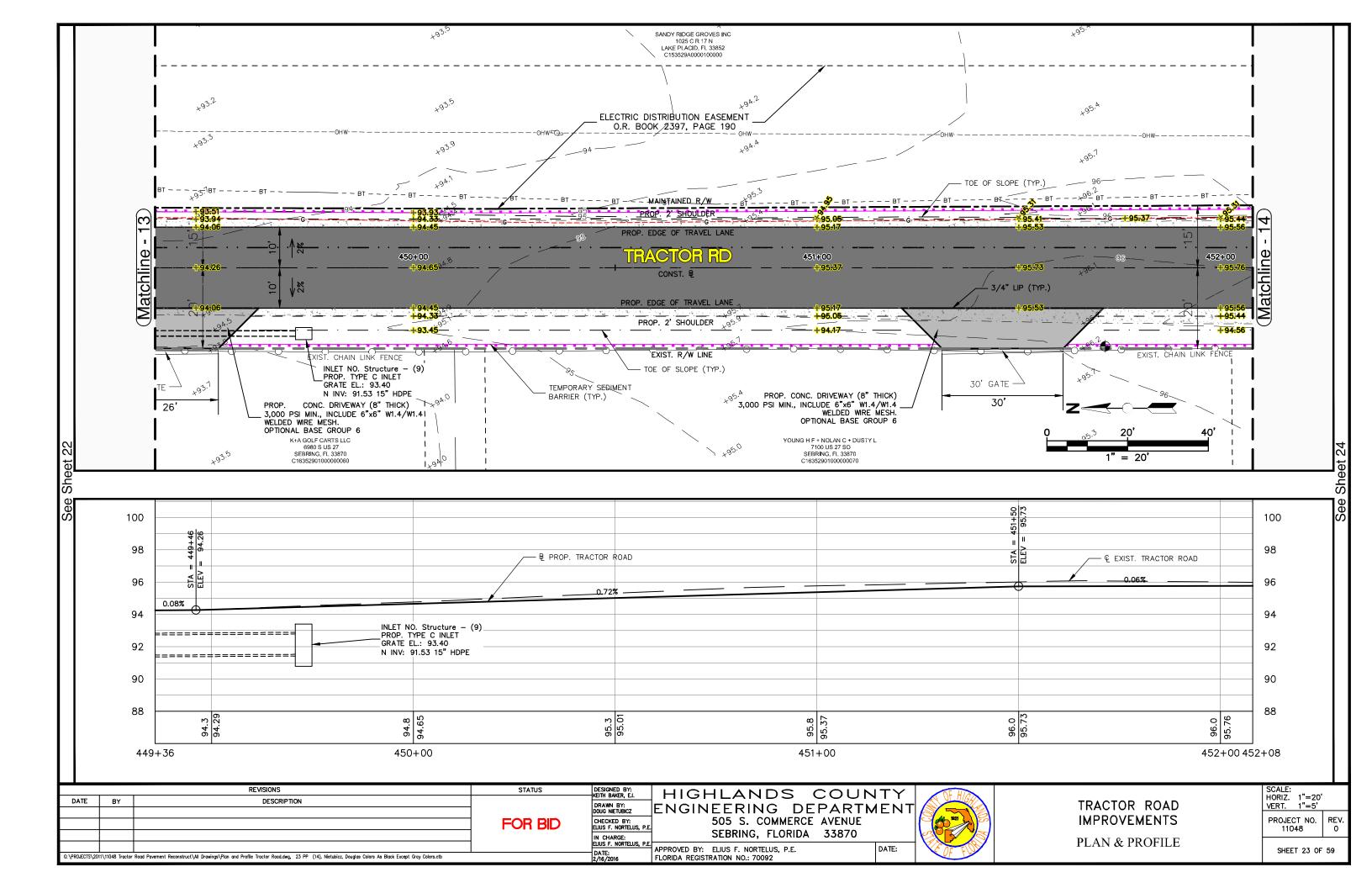


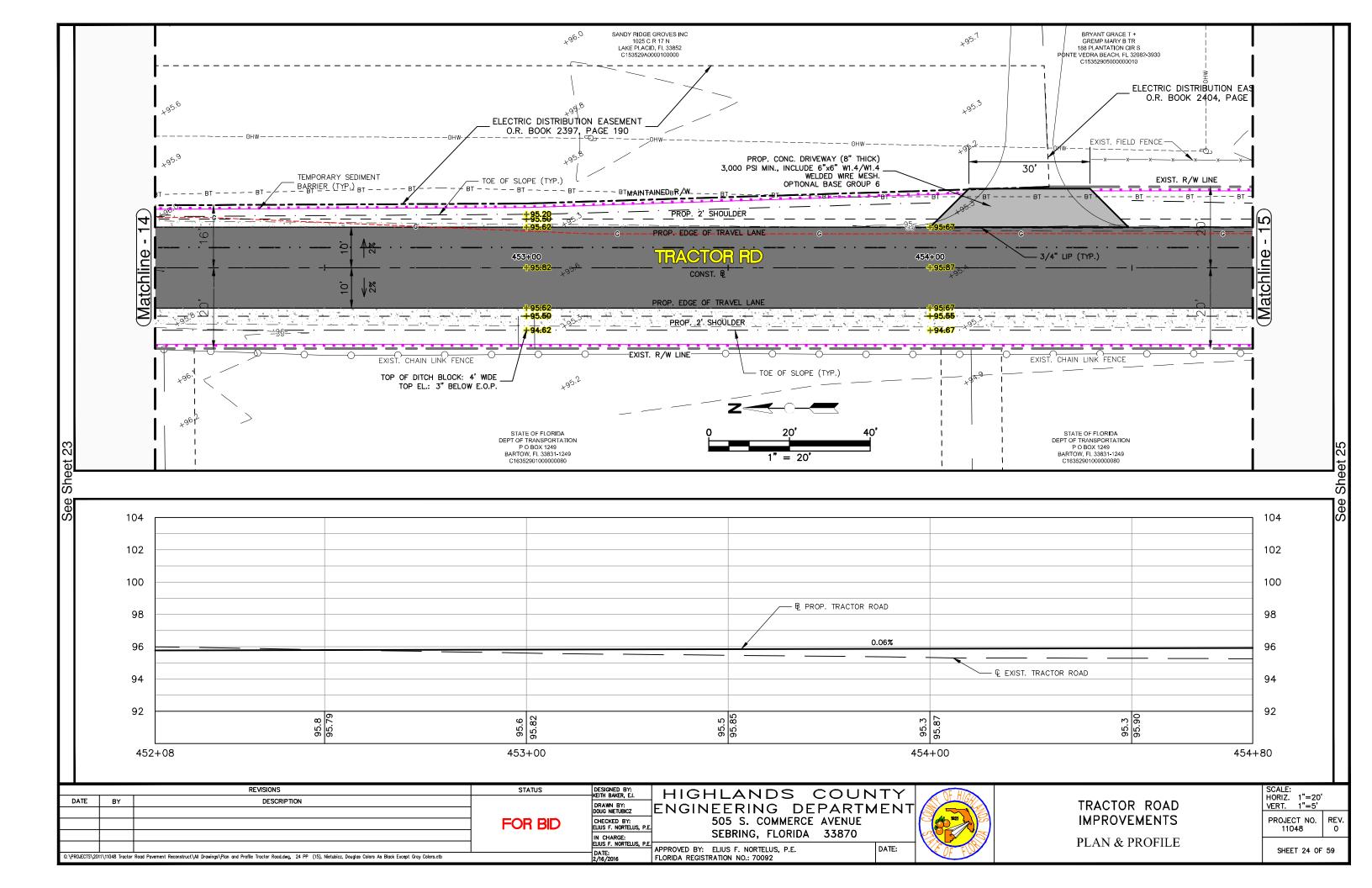


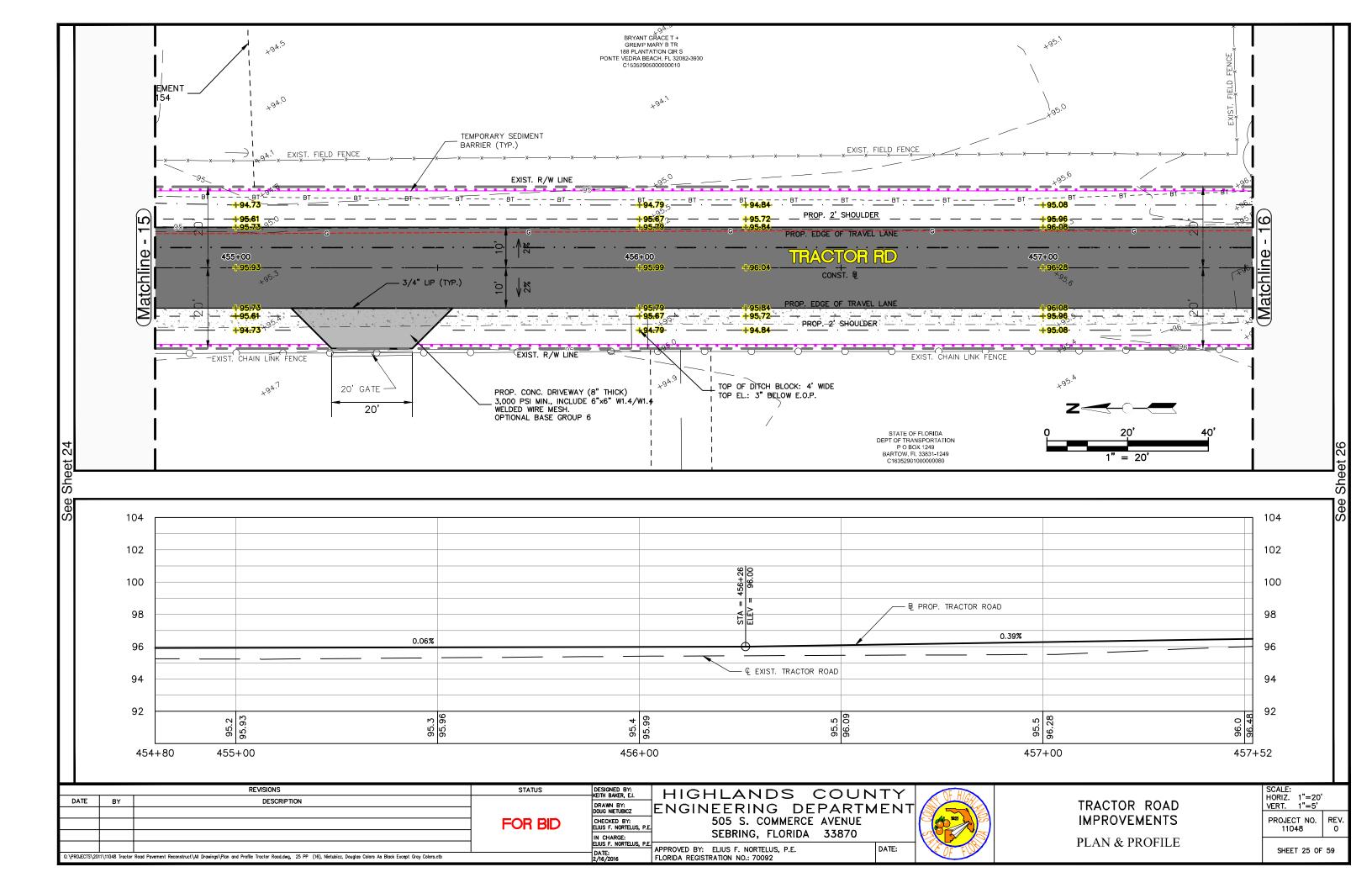


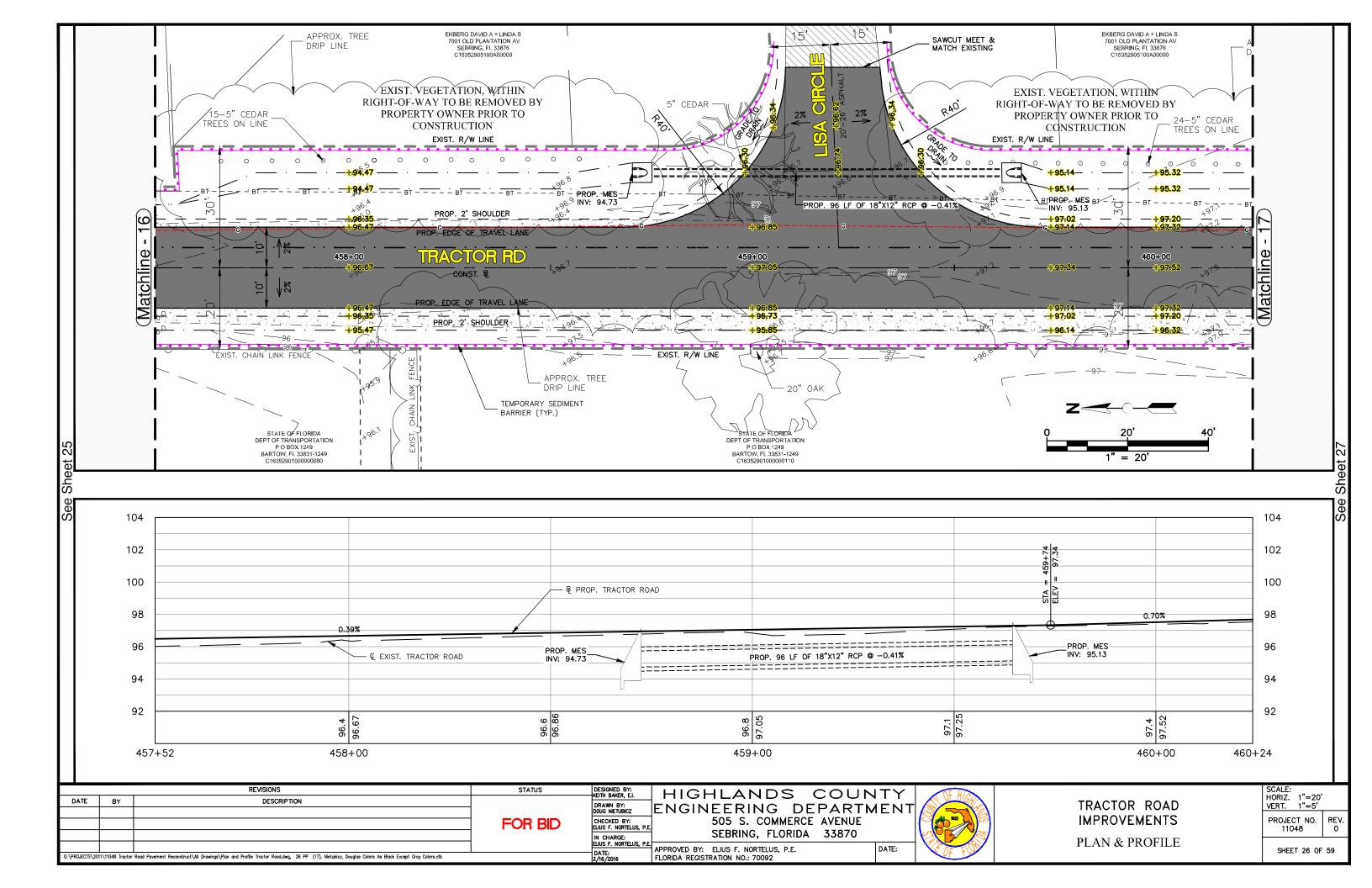


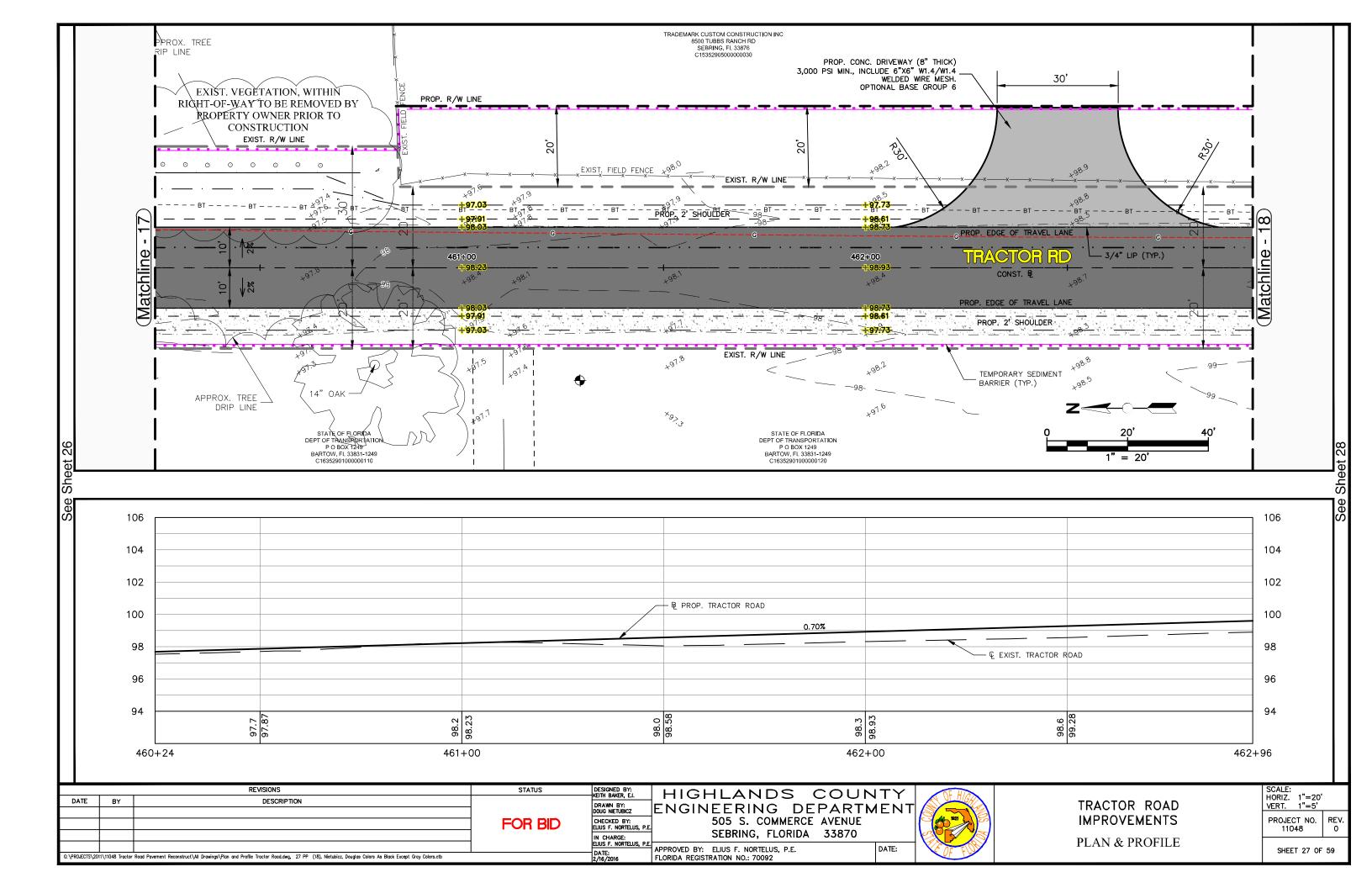


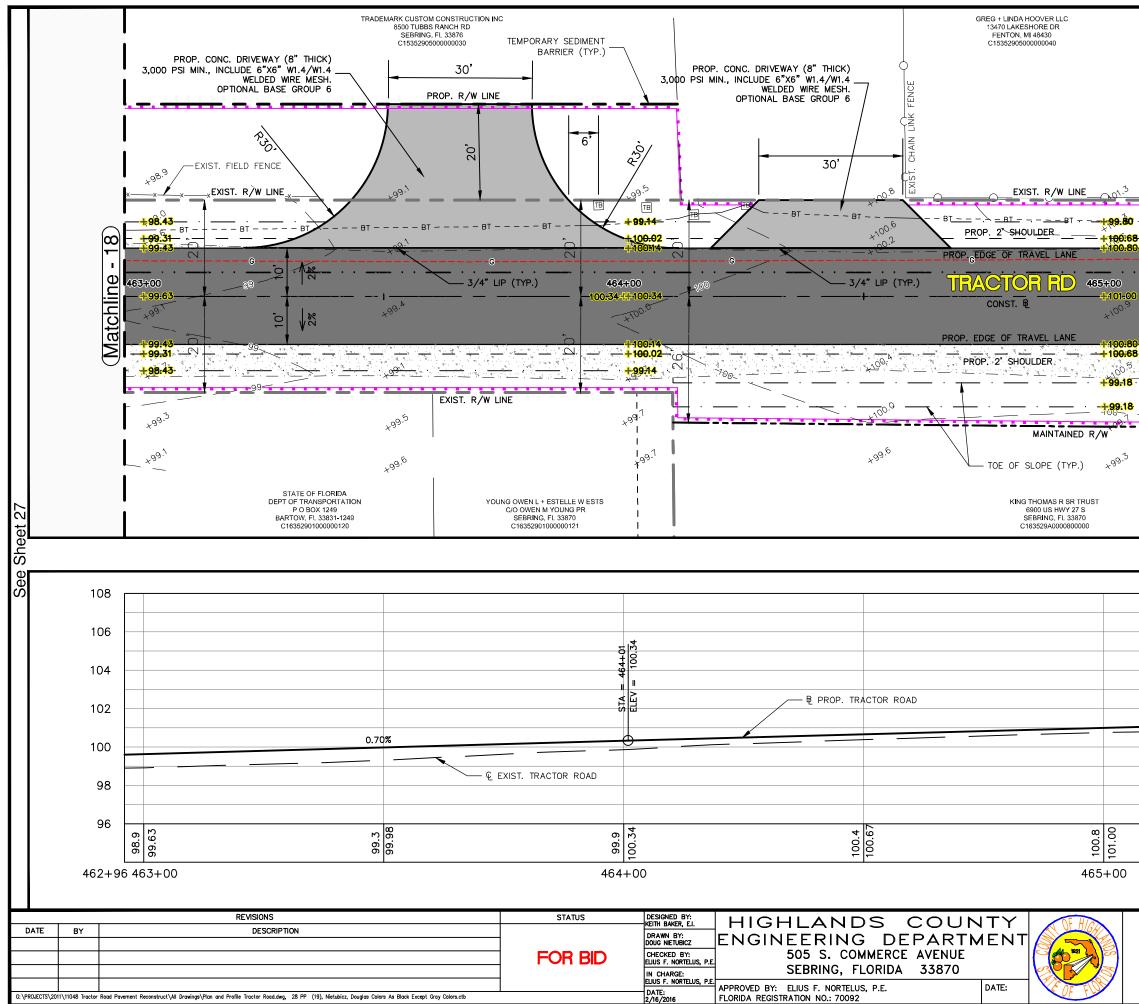




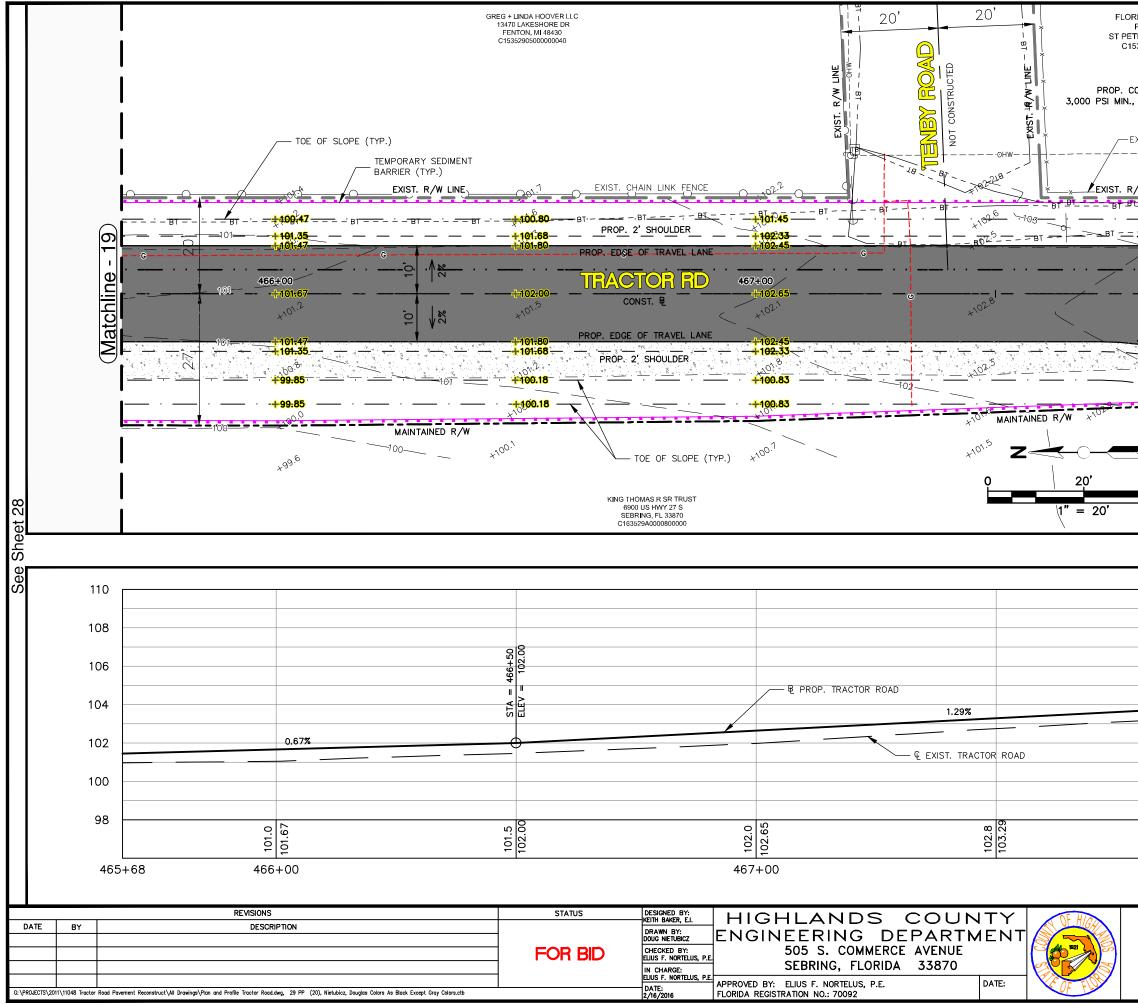




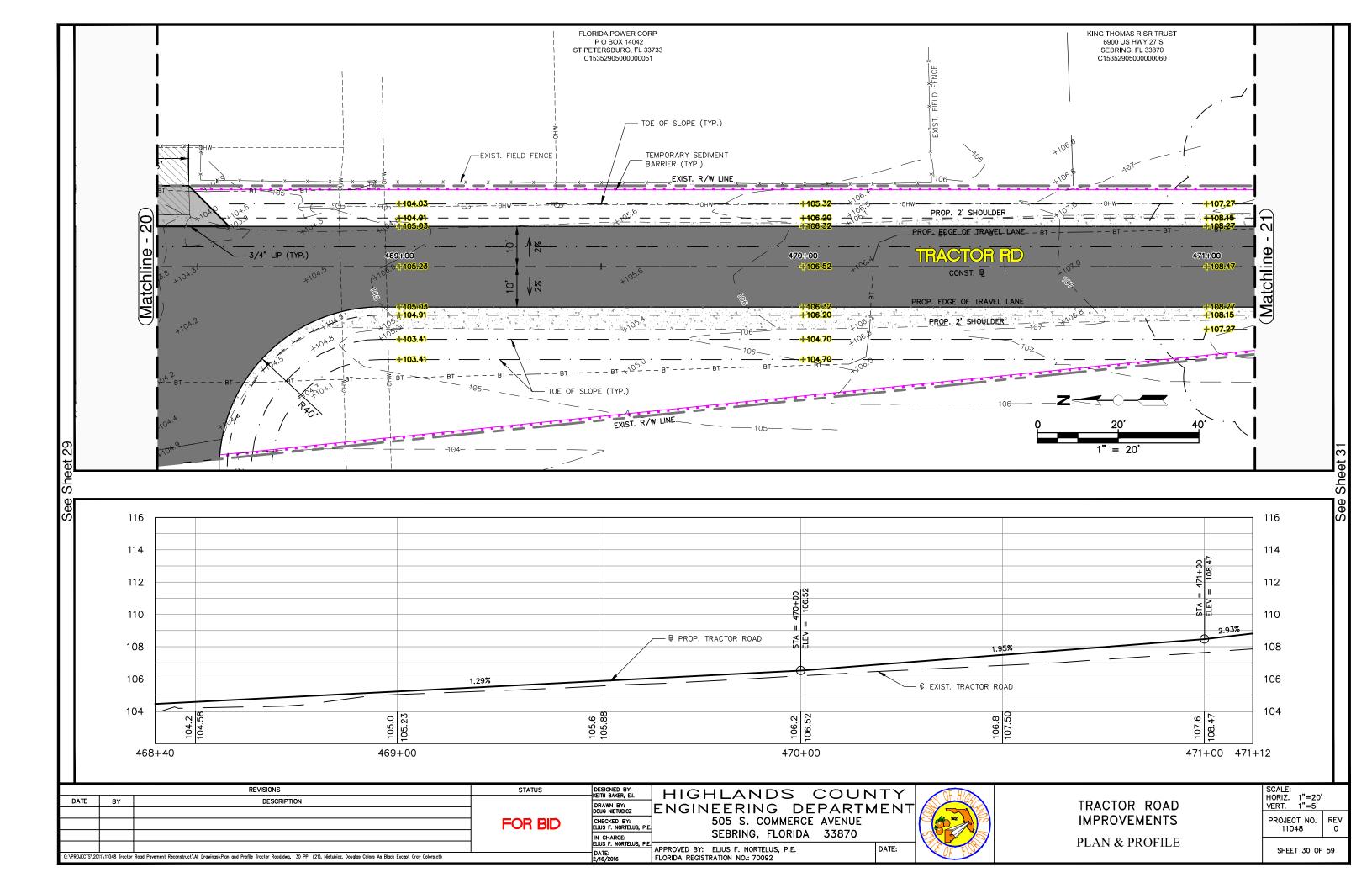


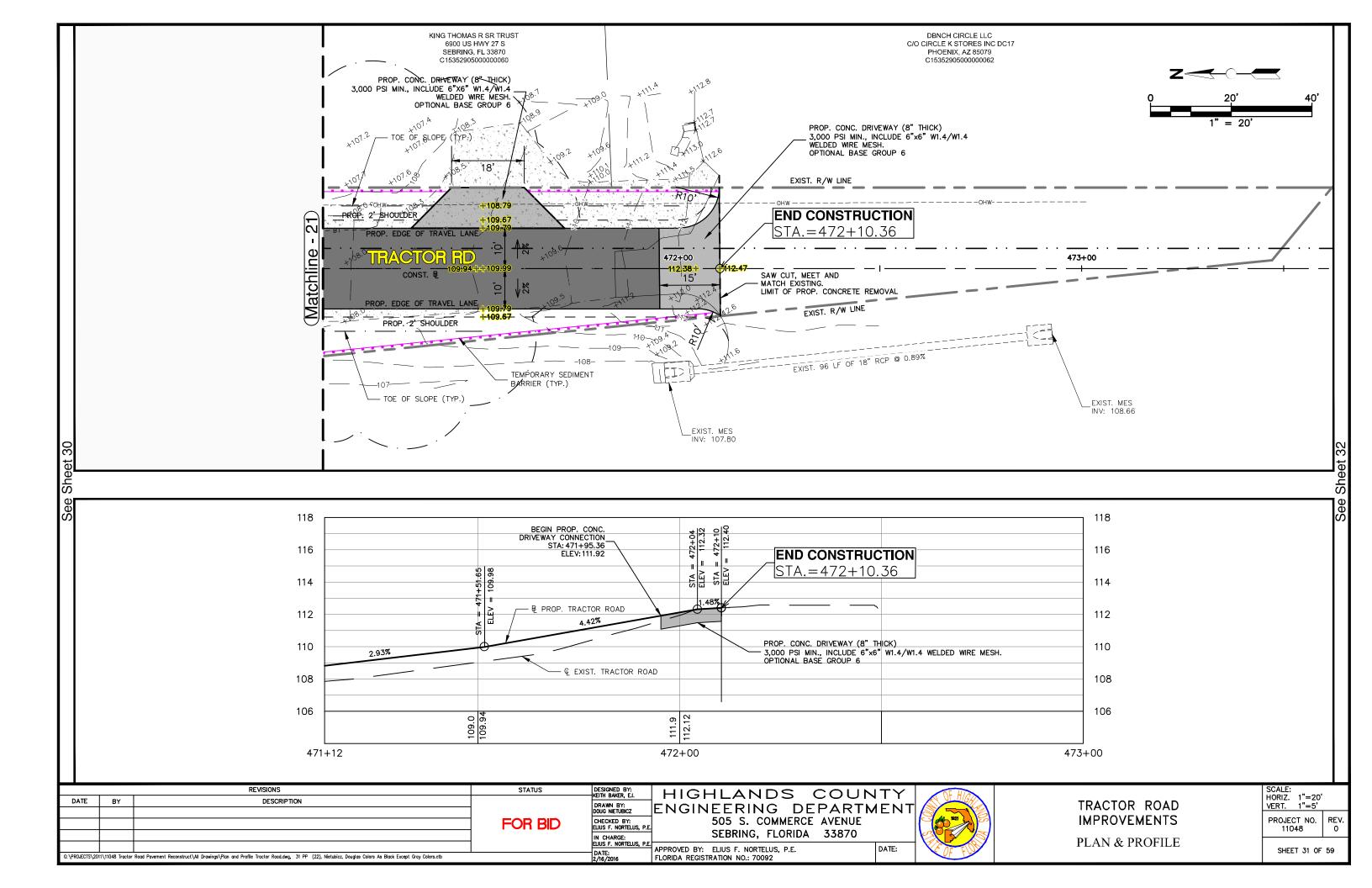


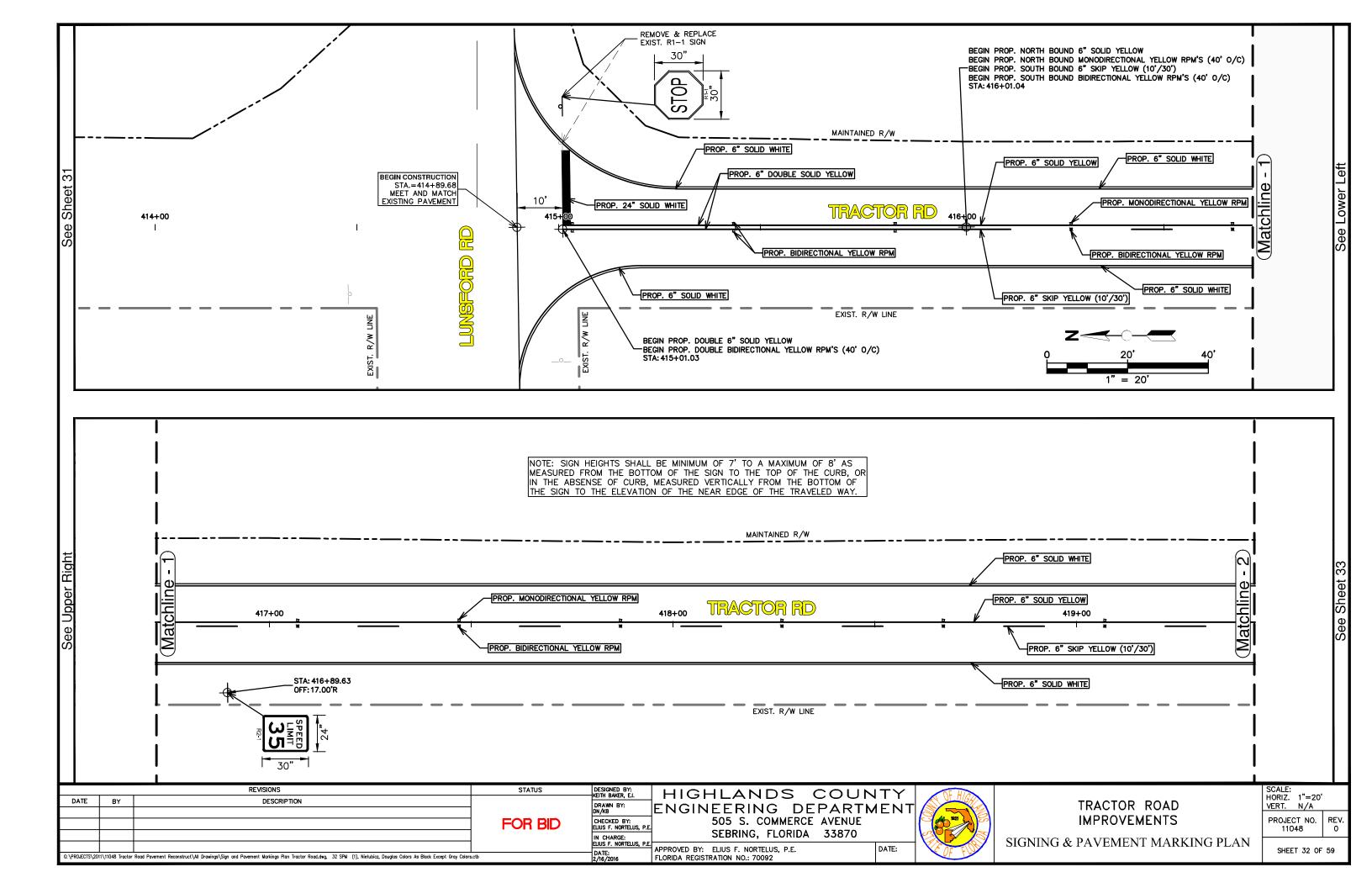
BT BT BT BT BT BT	CHAIN LINK FENCE	(Matchline - 19)	Sheet 29
		108	See Sh
		106	
		104	
0.67%		102	
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0.0	1.33	96	
	<u>6</u> 465+	68	
TRACTOR ROAD		SCALE: HORIZ. 1"=20' VERT. 1"=5'	
IMPROVEMENTS		PROJECT NO. 11048	REV. 0
PLAN & PROFILE	·	SHEET 28 OF	59

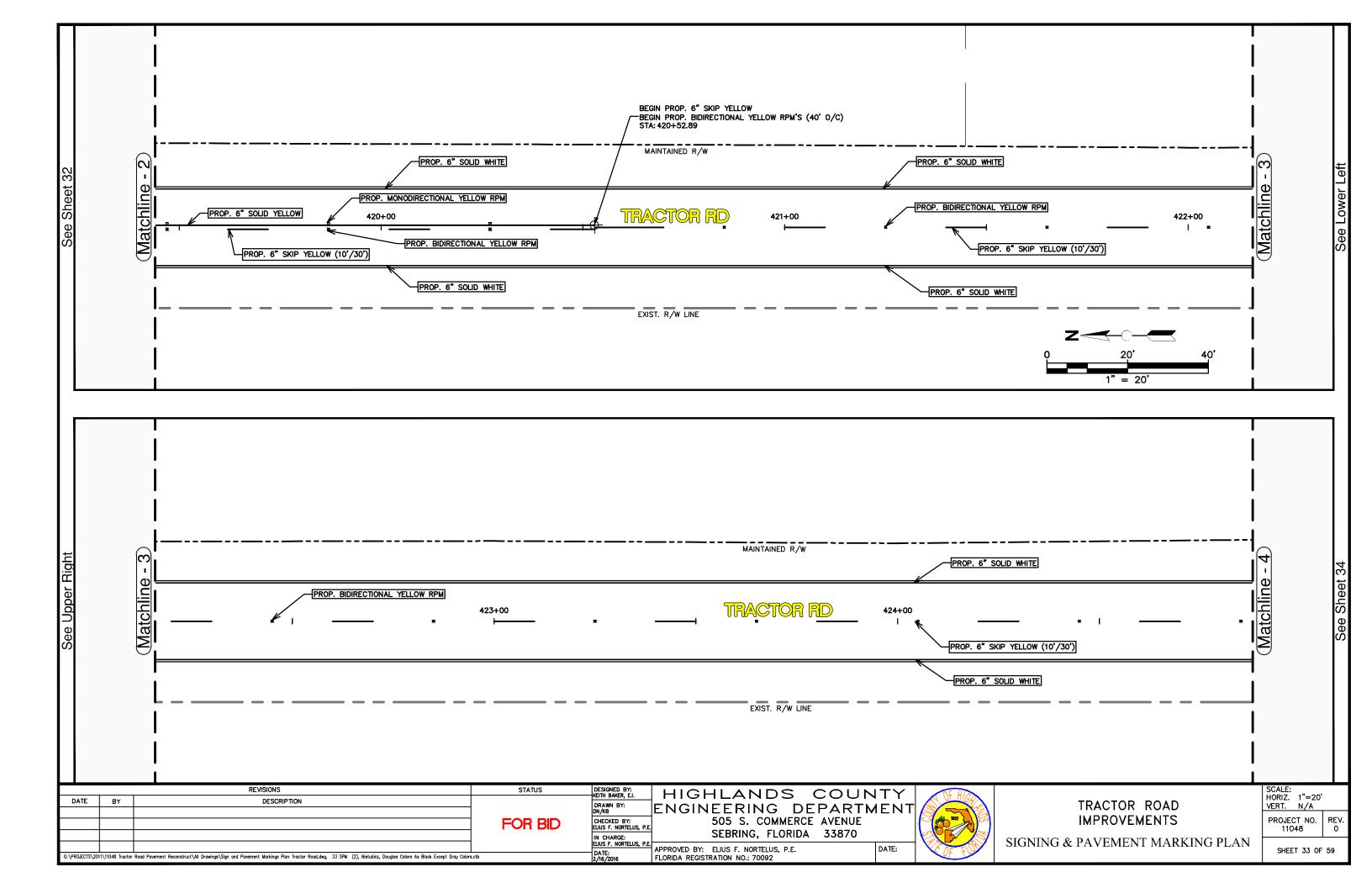


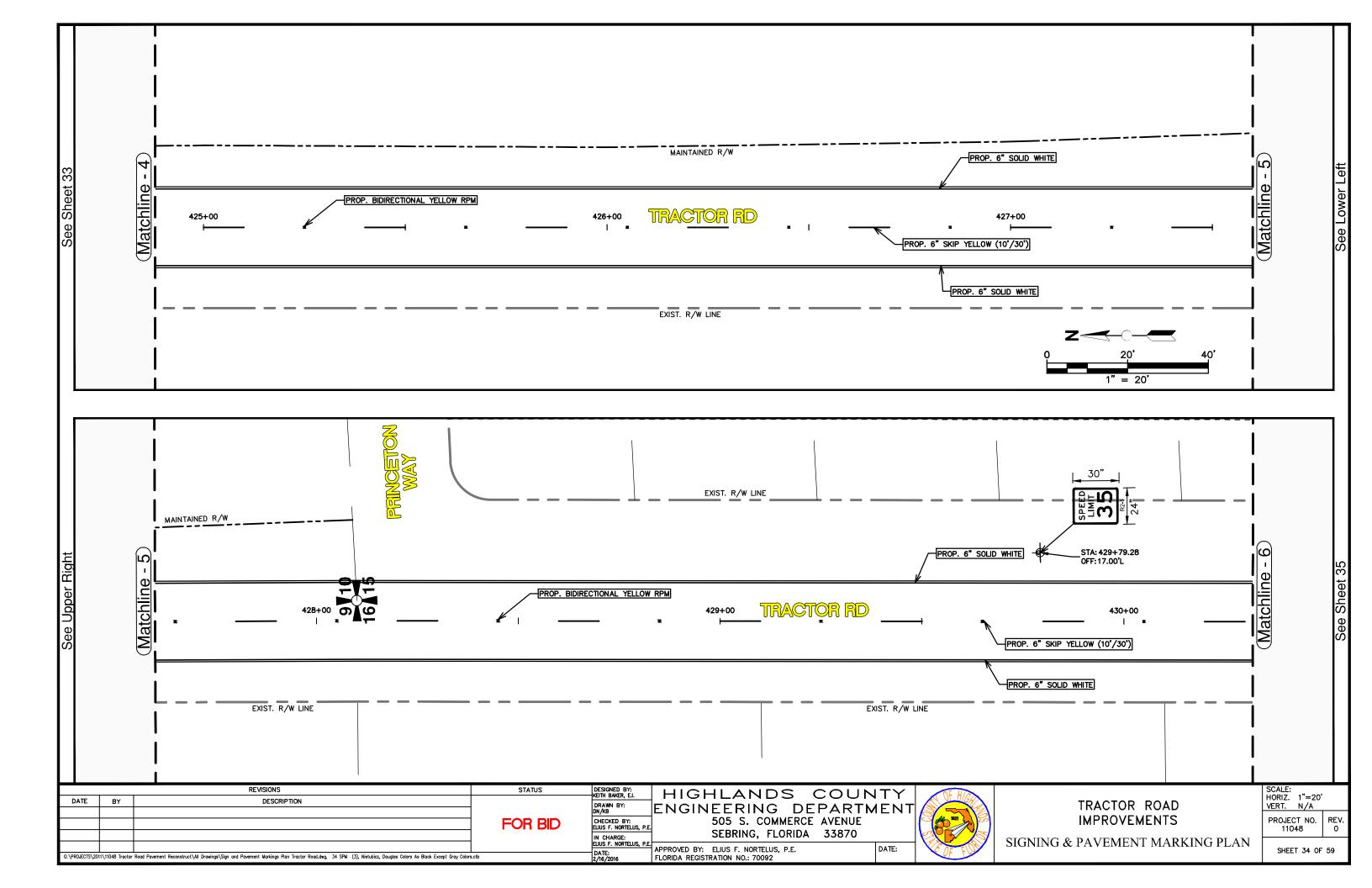
IDA POWER CORP P O BOX 14042 ERSBURG, FL 33733 352905000000051 DNC. DRIVEWAY (8" THICK) INCLUDE 6"x6" W1.4/W1.4 WELDED WIRE MESH. OPTIONAL BASE GROUP 6 NIST. FIELD FENCE OHW W LINE A HIT BT BT	(Matchine - 20)	See Sheet 30
	110	See
	108	
	106	
	104	
	102	
	100	
4. 60	98	
468+00 468+	40	
TRACTOR ROAD	SCALE: HORIZ. 1"=20' VERT. 1"=5'	
IMPROVEMENTS PLAN & PROFILE		ΞV. 0
	3HEET 29 UF 59	

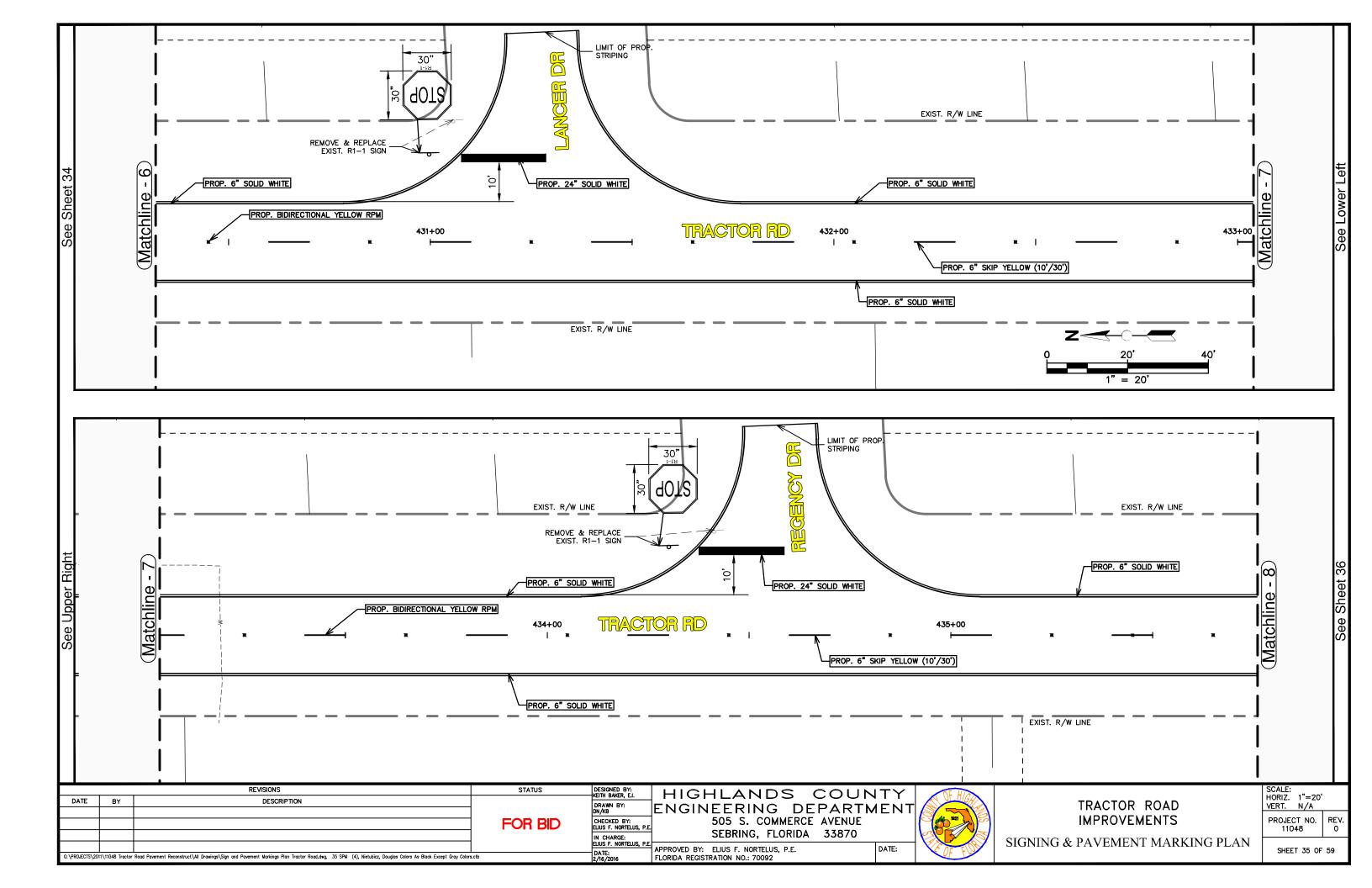


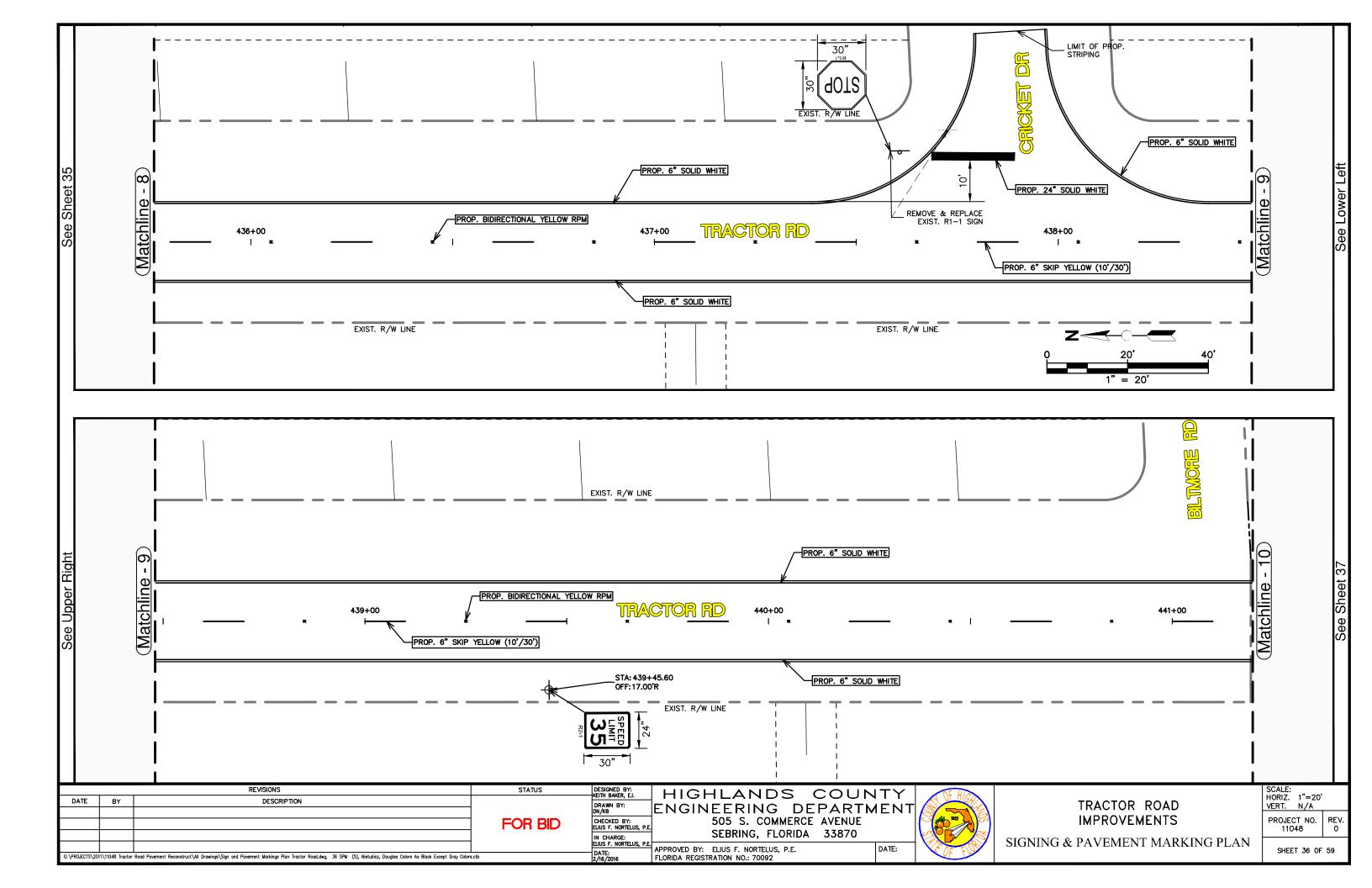


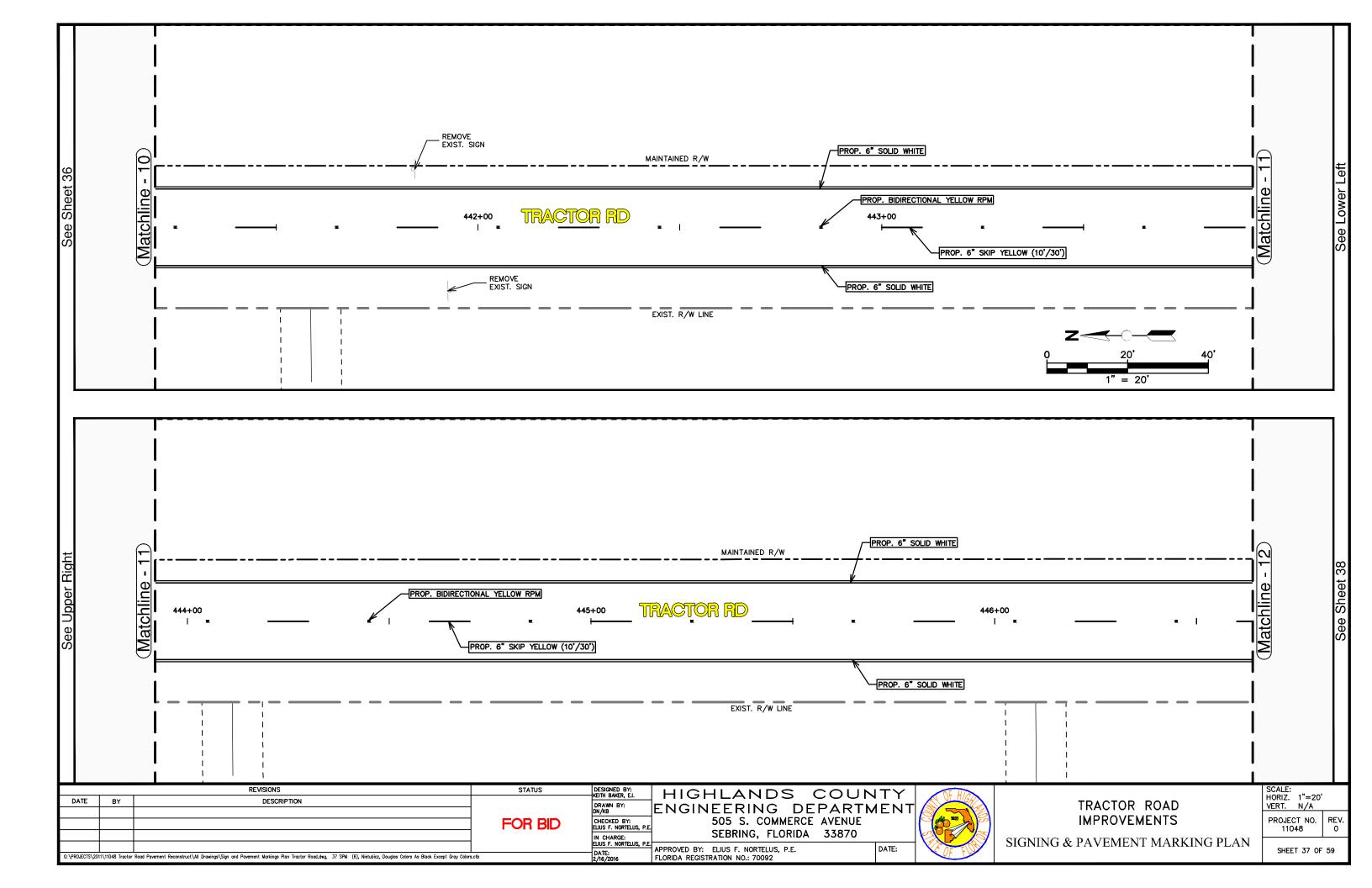


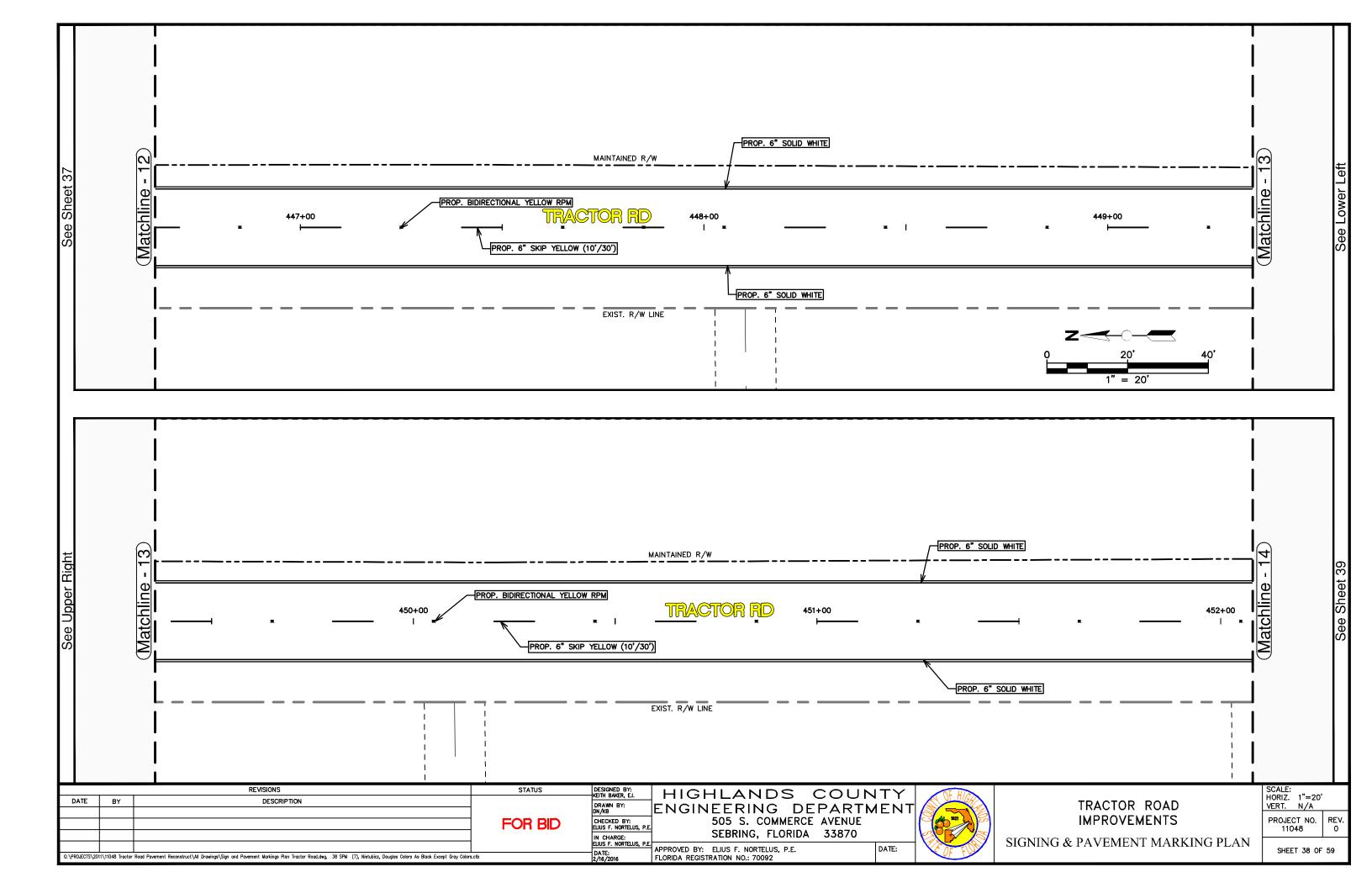


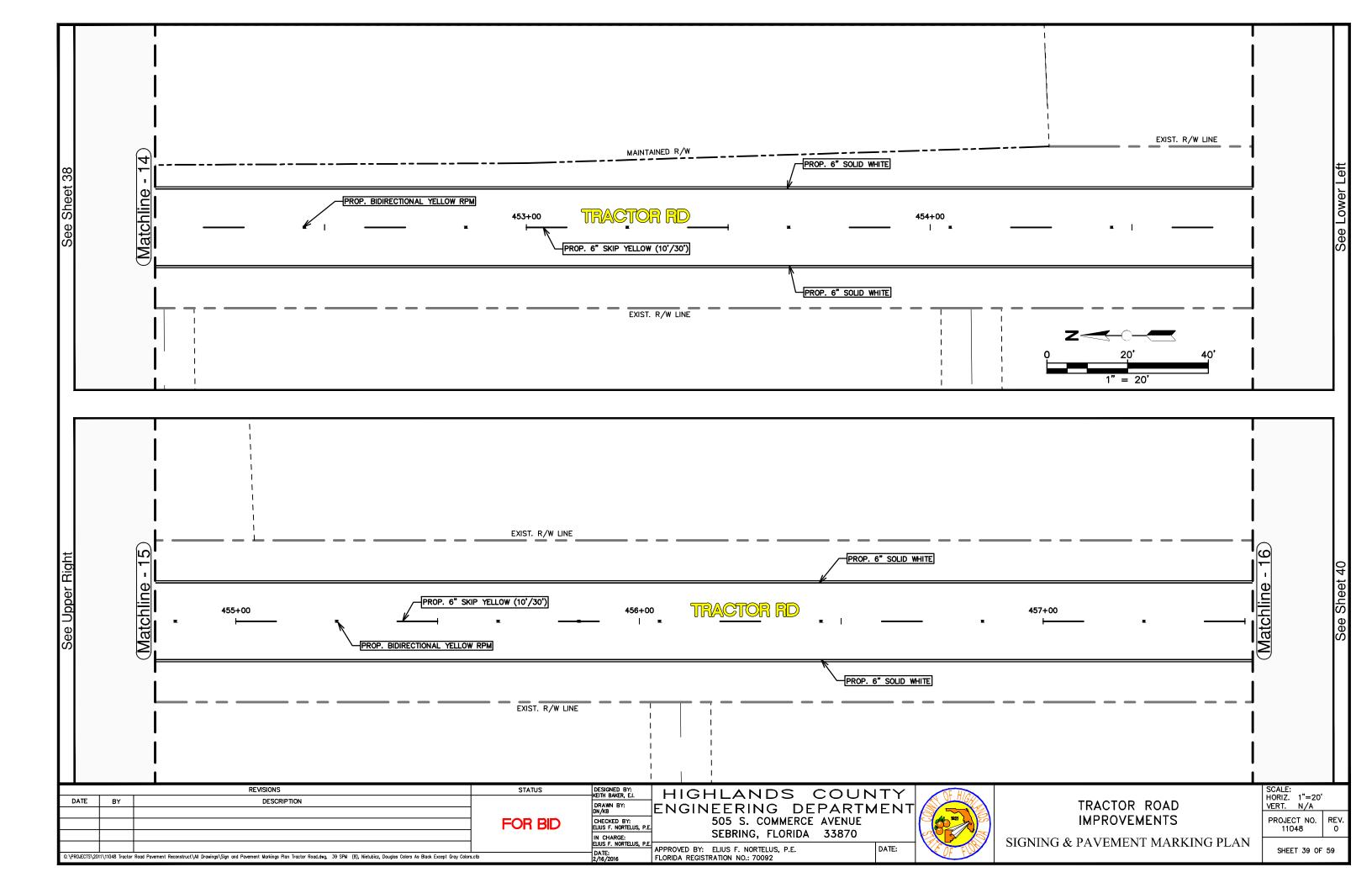


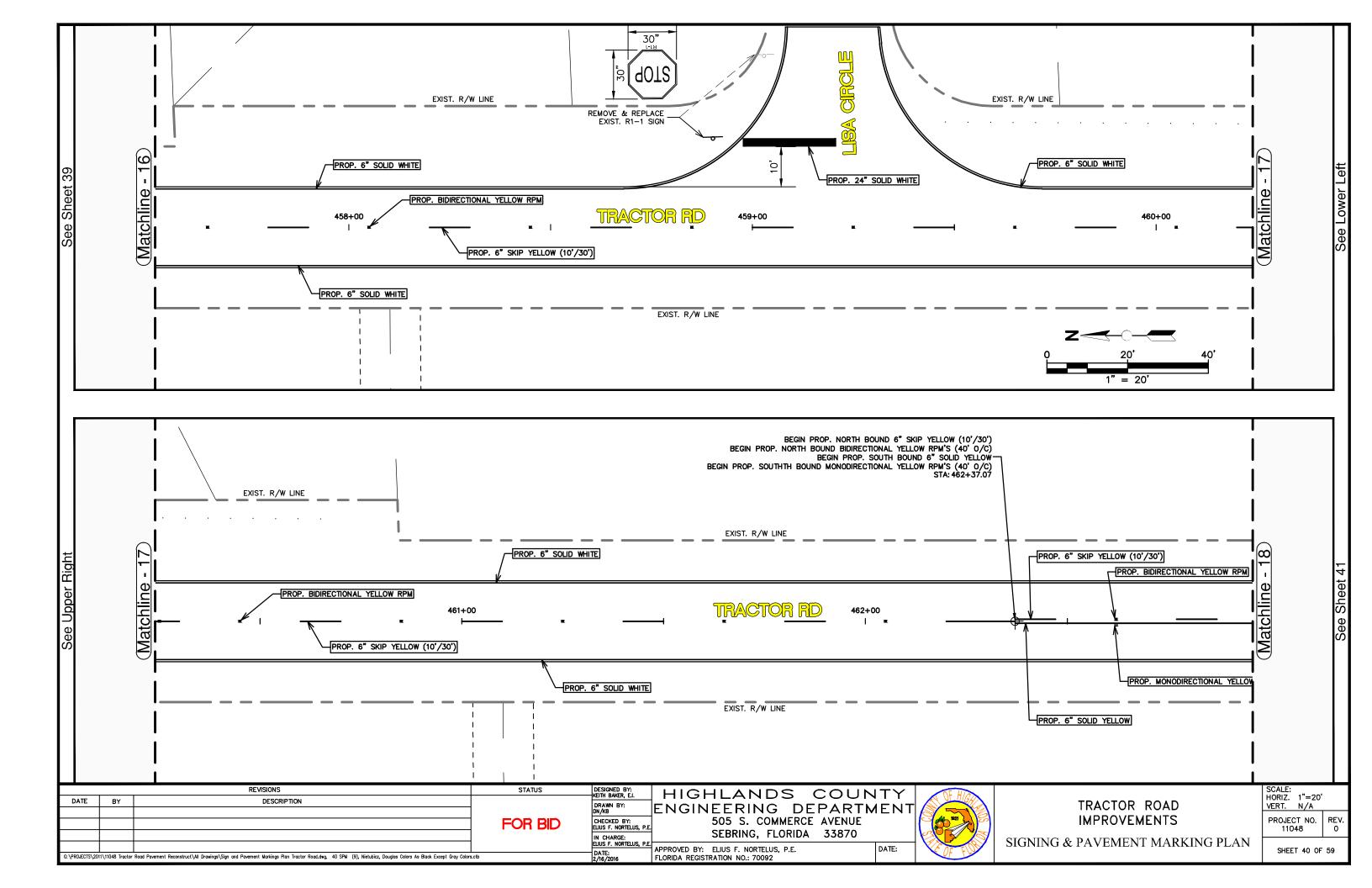


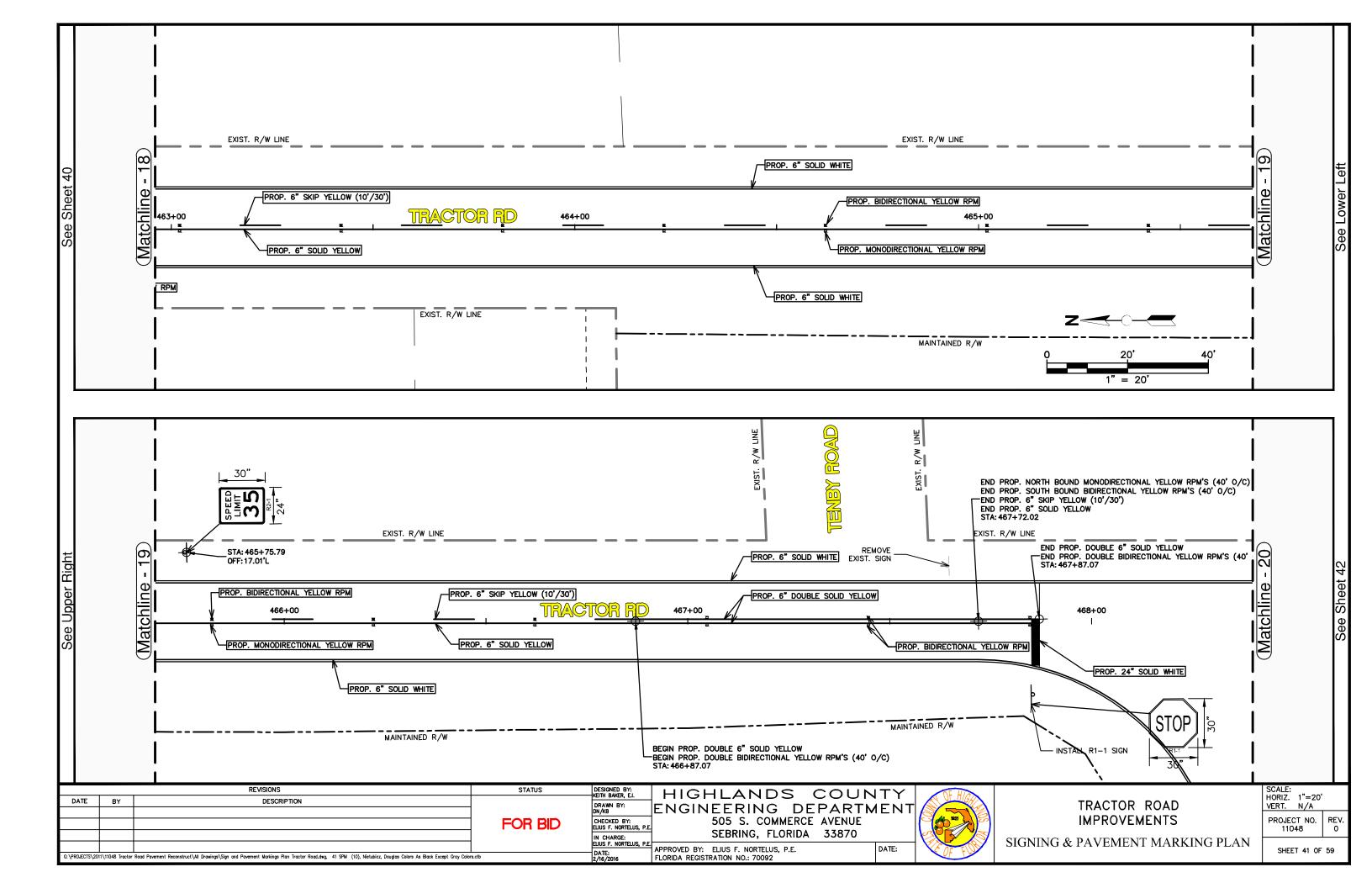


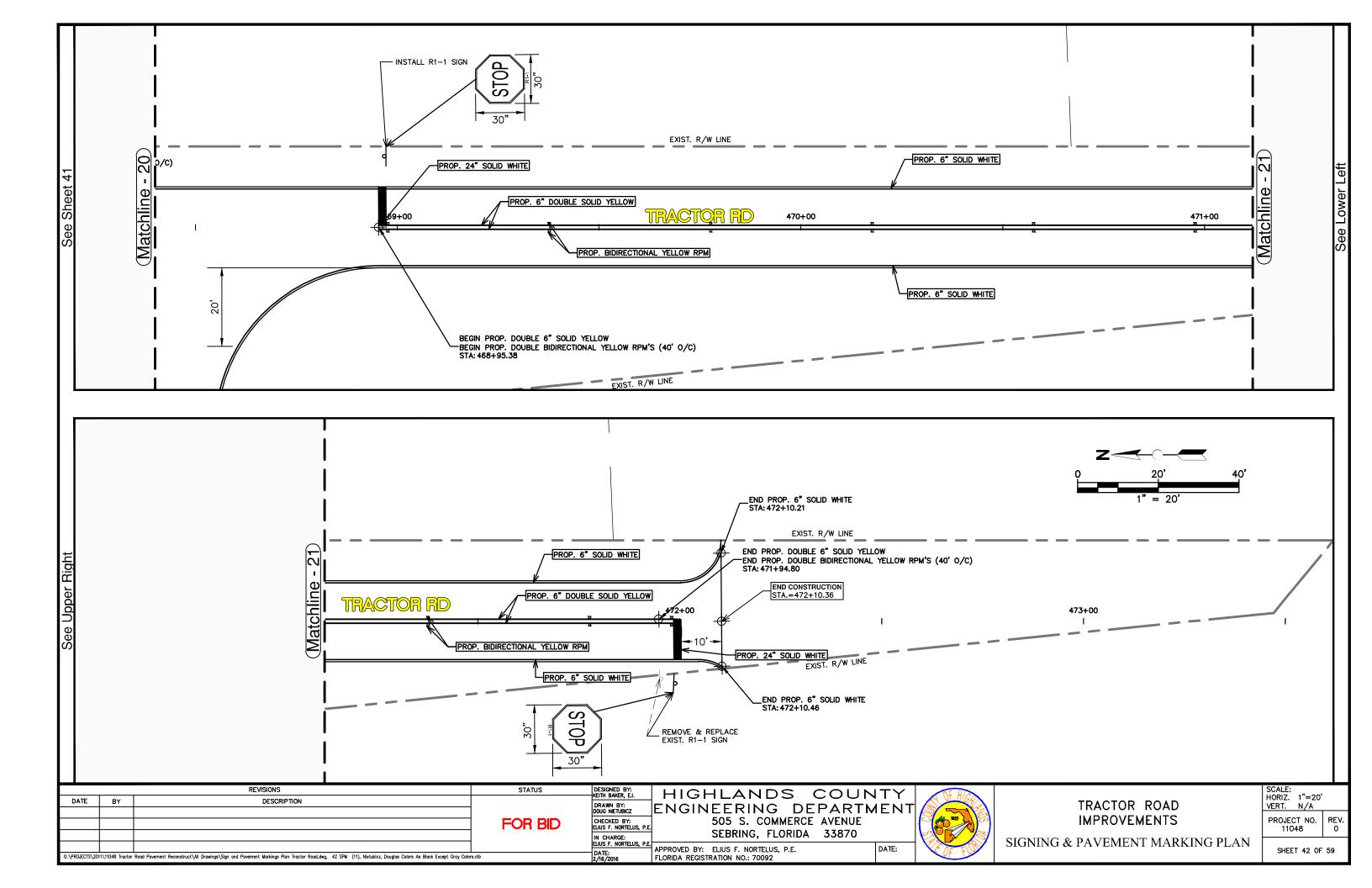


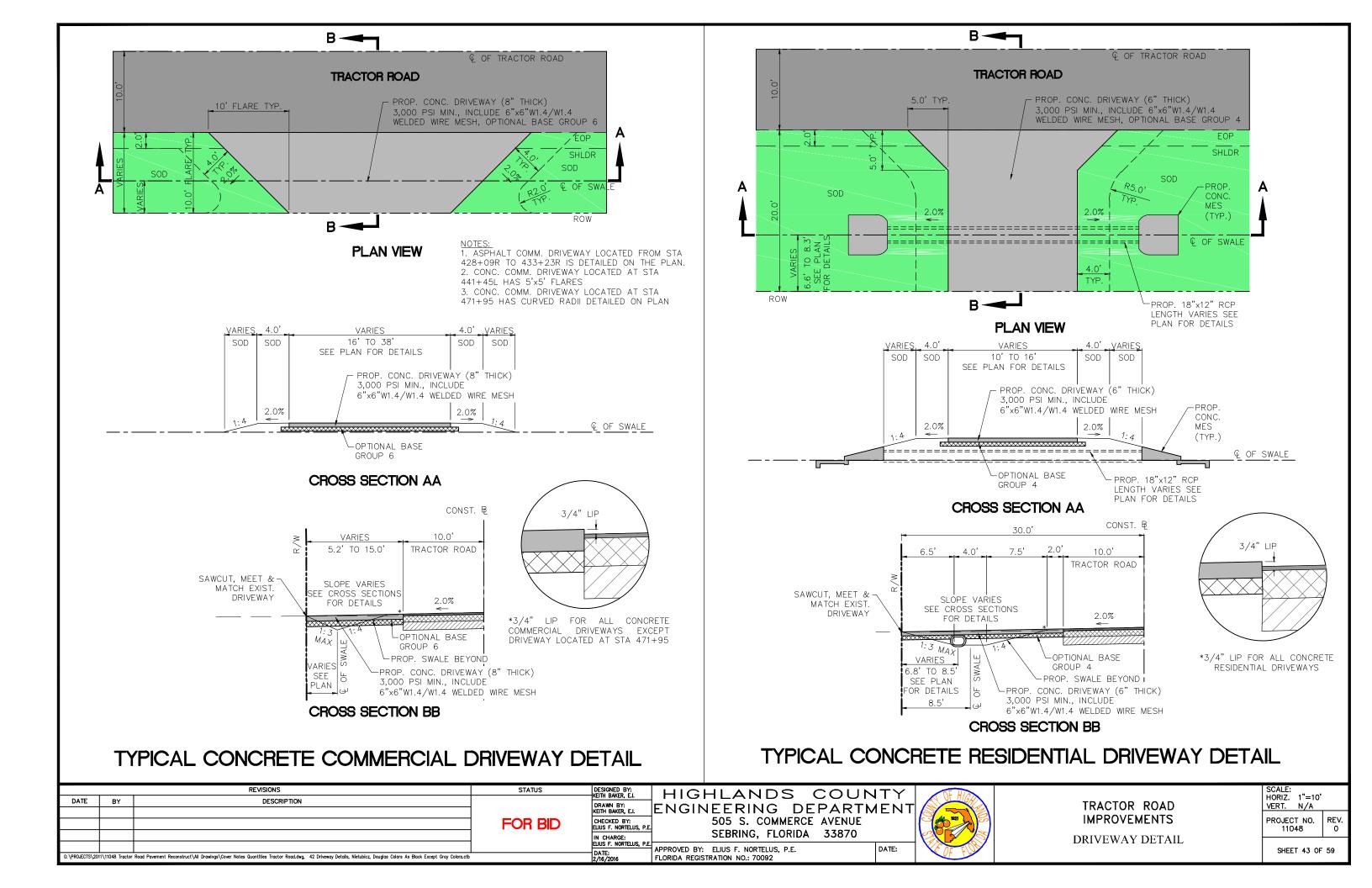


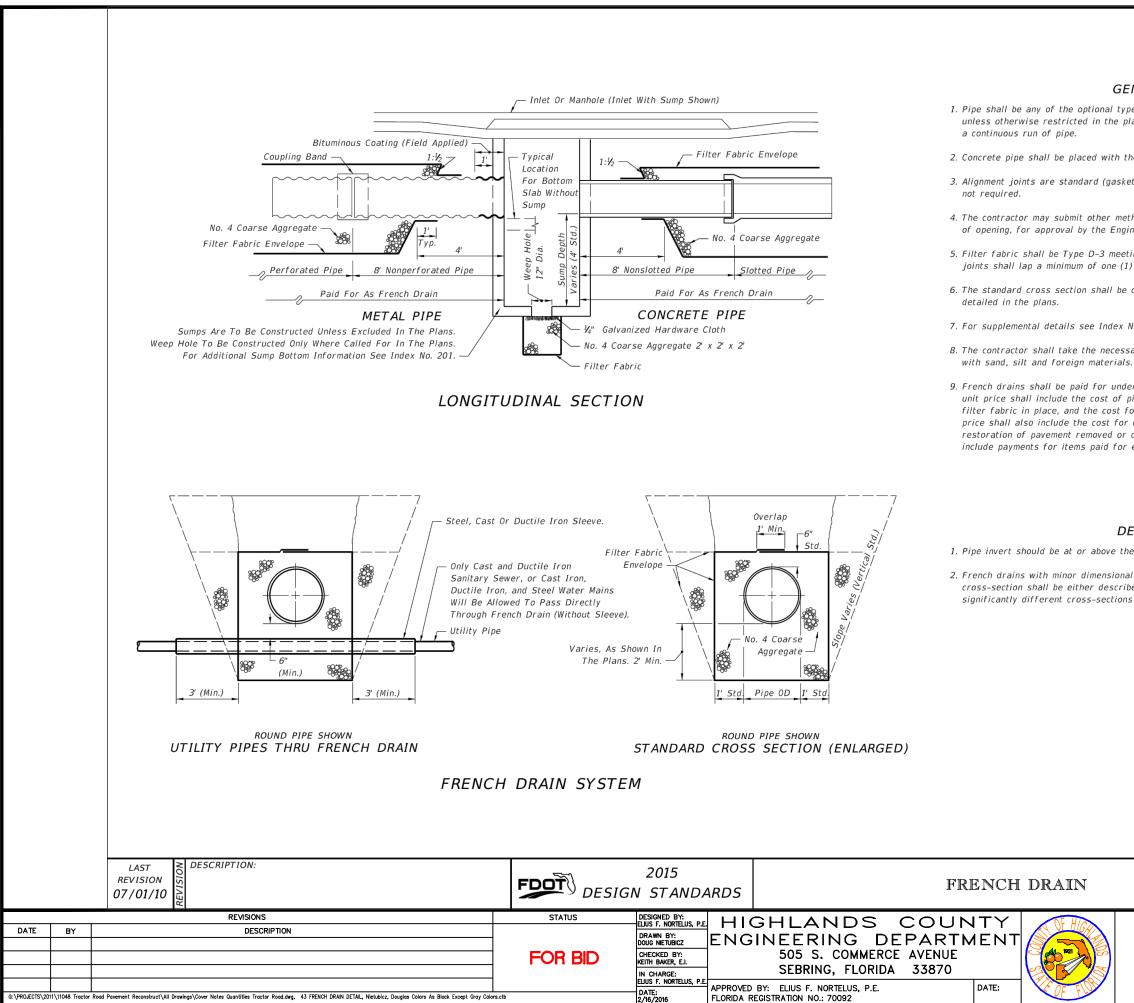




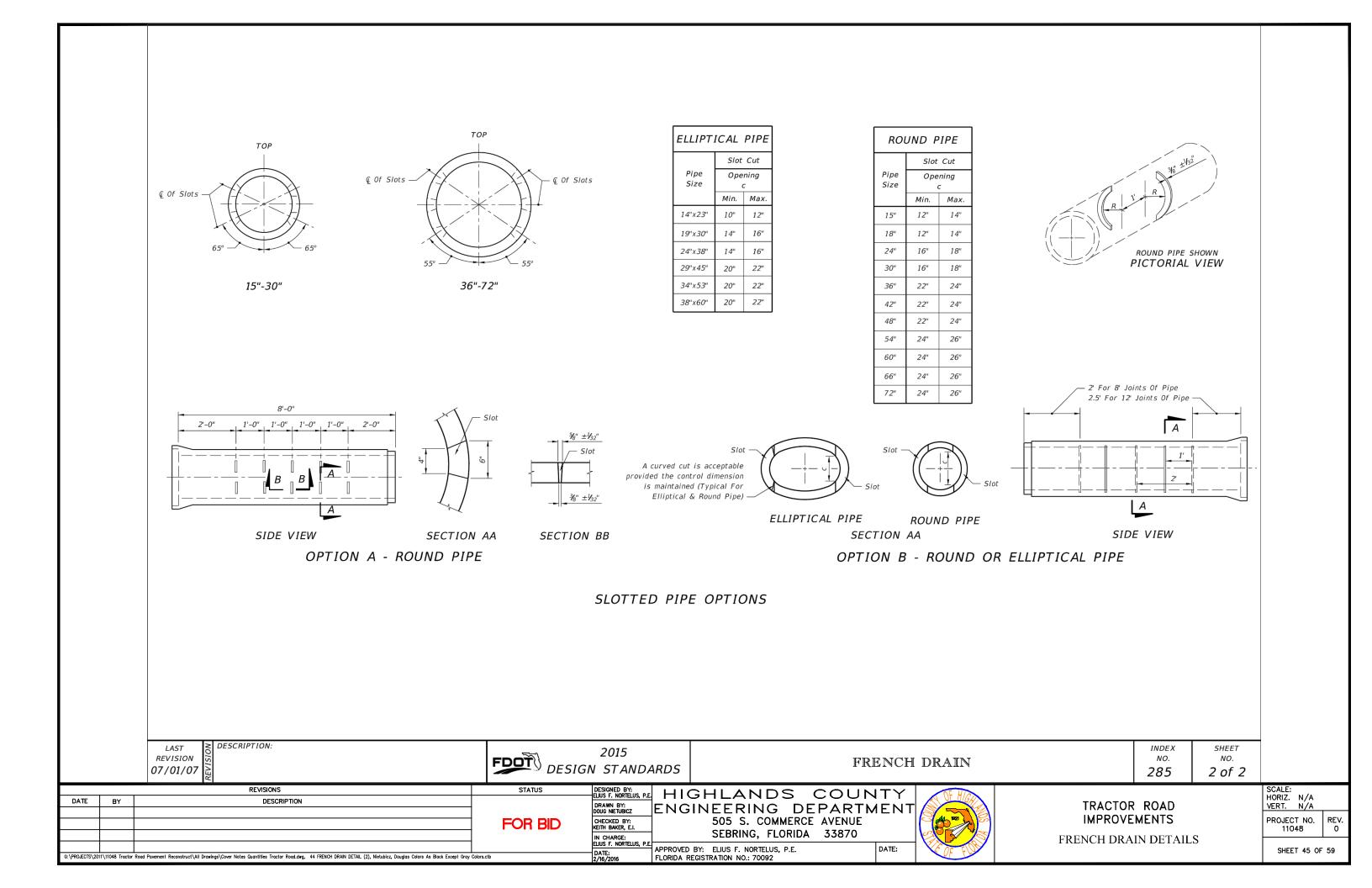








NERAL NOTES es permitted in Section 443 of t. ans. Dissimilar types of pipe wil				
ne slots positioned on sides.				
ts not required). Recorrugation	of metal pipe e	ends		
hods of providing slots having en neer.	qual or greater	area		
ing the requirements of Section :) foot.	985. All filter	fabric		
constructed unless other section	(s) described or	-		
Io. 280.				
ary precautions to prevent conta	mination of the	trench		
r the contract unit price for Fre ipe, pipe plugs, pipe fittings, coa or trench excavation, backfill and disposal of surplus excavated m damaged by french drain constru elsewhere.	arse aggregate 1 compaction. Tl naterials and co	and he unit ost for		
SIGN NOTES				
e water table whenever possible.				
l changes or otherwise different ed or detailed in the plans. Fre s shall be detailed in the plans.				
	INDEX NO.	SHEET NO.		
	285	1 of 2		
TRACTOR			SCALE: HORIZ. N/A	
TRACTOR ROAD IMPROVEMENTS			VERT. N/A PROJECT NO.	REV.
FRENCH DRAIN DETAILS			11048 SHEET 44 OF	0
			SHEET 44 OF	59



SPECIFICATION FOR SAFETY EDGE

INCORPORATE A SAFETY EDGE AT ALL EDGE OF PAVEMENT LOCATIONS FOR THE ENTIRE PROJECT. THE FINISHED SHAPE OF THE SAFETY EDGE SHALL CONFORM TO THE CROSS-SECTION DRAWINGS SHOWN BELOW LABELED FIGURE NO. 1.

Edge of Pavement 1:1.2 to 1:2.0* Shoulder Backing For $H \le 5$ in

FIGURE NO. 1

EQUIPMENT

A. ASPHALT CONCRETE PAVEMENT (AC)

UTILIZE AN APPROVED SAFETY EDGE(SM) SYSTEM TO CREATE A SLOPED PROFILE ONTO THE ROADWAY SHOULDER. UTILIZE AND APPROVED SAFETY EDGE(SM) SYSTEM THAT COMPACTS THE AC AND PROVIDES A SLOPED WEDGE EQUAL TO 1:1.2 TO 1:2.0 MEASURED FROM THE PAVEMENT SURFACE DROSS SLOPE EXTENDED. THE USE OF A SINGLE PLATE STRIKE OFF IS NOT ALLOWED. THE SAFETY EDGE(SM) SHALL BE CONSTRUCTED MONOLITHICALLY WITH THE AC PAVEMENT

UTILIZE AN APPROVED SAFETY EDGE(SM) SYSTEM THAT IS ADJUSTABLE TO ACCOMMODATE VARYING PAVING THICKNESS

ALL SAFETY EDGE(SM) SYSTEMS TO BE USED FOR THE PURPOSE OF CREATING A SAFETY EDGE(SM) MUST MEET THE APPROVAL OF THE ENGINEER. THE ENGINEER MAY REQUIRE PROOF THAT THE SYSTEM HAS BEEN USED ON PREVIOUS PROJECTS WITH ACCEPTABLE RESULTS OR MAY REQUIRE A TEST SECTION CONSTRUCTED PRIOR TO THE BEGINNING OF WORK TO DEMONSTRATE THE EDGE SHAPE AND COMPACTION TO THE SATISFACTION OF THE ENGINEER.

CONSTRUCTION METHODS

A. SHOULDER PREPARATION

PRIOR TO PLACING ASPHALT PAVEMENT, PREPARE THE SHOULDER MATERIAL WHERE THE SAFETY EDGE(SM) WILL BE PLACED TO PROVIDE A FOUNDATION THAT WILL SUPPORT THE PLACEMENT OF THE SAFETY EDGE(SM) IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

B. AC DENSITY

FOR AC PAVEMENT, THE PERCENT COMPACTION OF THE AC ADJACENT TO THE SAFETY EDGE(SM) SHALL BE IN ACCORDANCE WITH UNCONFINED LONGITUDINAL EDGE PROJECT SPECIFICATION.

C. SHOULDER BACKING MATERIAL

FURNISH, PLACE AND COMPACT SHOULDER BACKING MATERIAL TO THE TOP OF THE SAFETY EDGE(SM) AS SHOWN IN FIGURE NO. 1 ABOVE.

D. HANDWORK

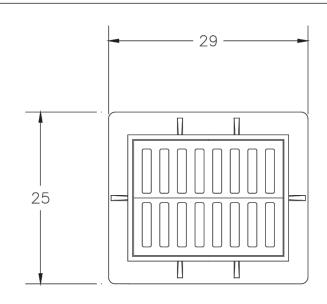
OBTAIN WRITTEN APPROVAL IN ADVANCE FROM THE HIGHLANDS COUNTY PROJECT MANAGER FOR SHORT SECTIONS OF HANDWORK SUCH AS TRANSITIONS AT DRIVEWAYS AND INTERSECTIONS.

METHOD OF MEASUREMENT

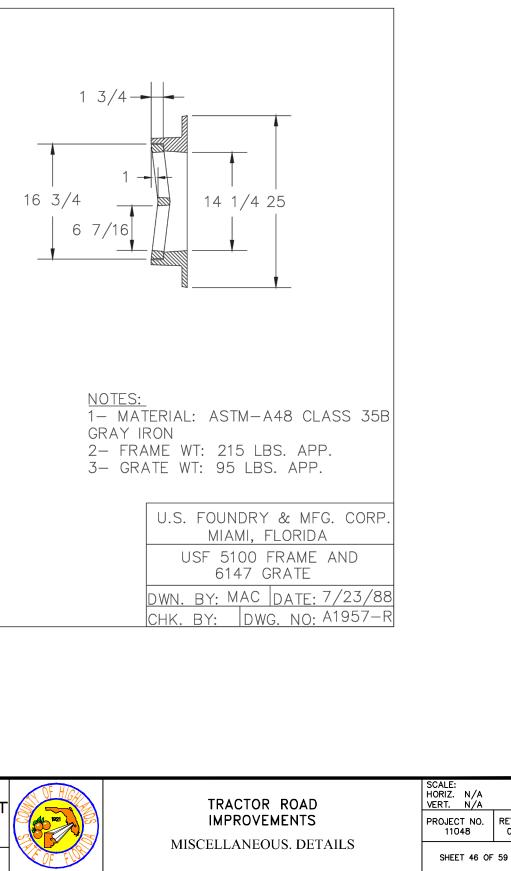
SAFETY EDGE(SM) WILL NOT BE MEASURED FOR PAYMENT.

BASIS OF PAYEMENT

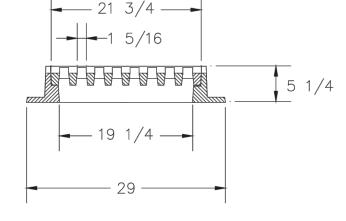
NO SEPARATE PAYMENT WILL BE MADE FOR THE CONSTRUCTION OF THE SAFETY EDGE(SM). ALL WORK ASSOCIATED IN THE SAFETY EDGE(SM) CONSTRUCTION SHALL BE INTEGRAL TO THE PAVEMENT WORK AND SHALL BE INCLUDED IN THE CONTRACT PRICING PRICING FOR THOSE PAY ITEMS.



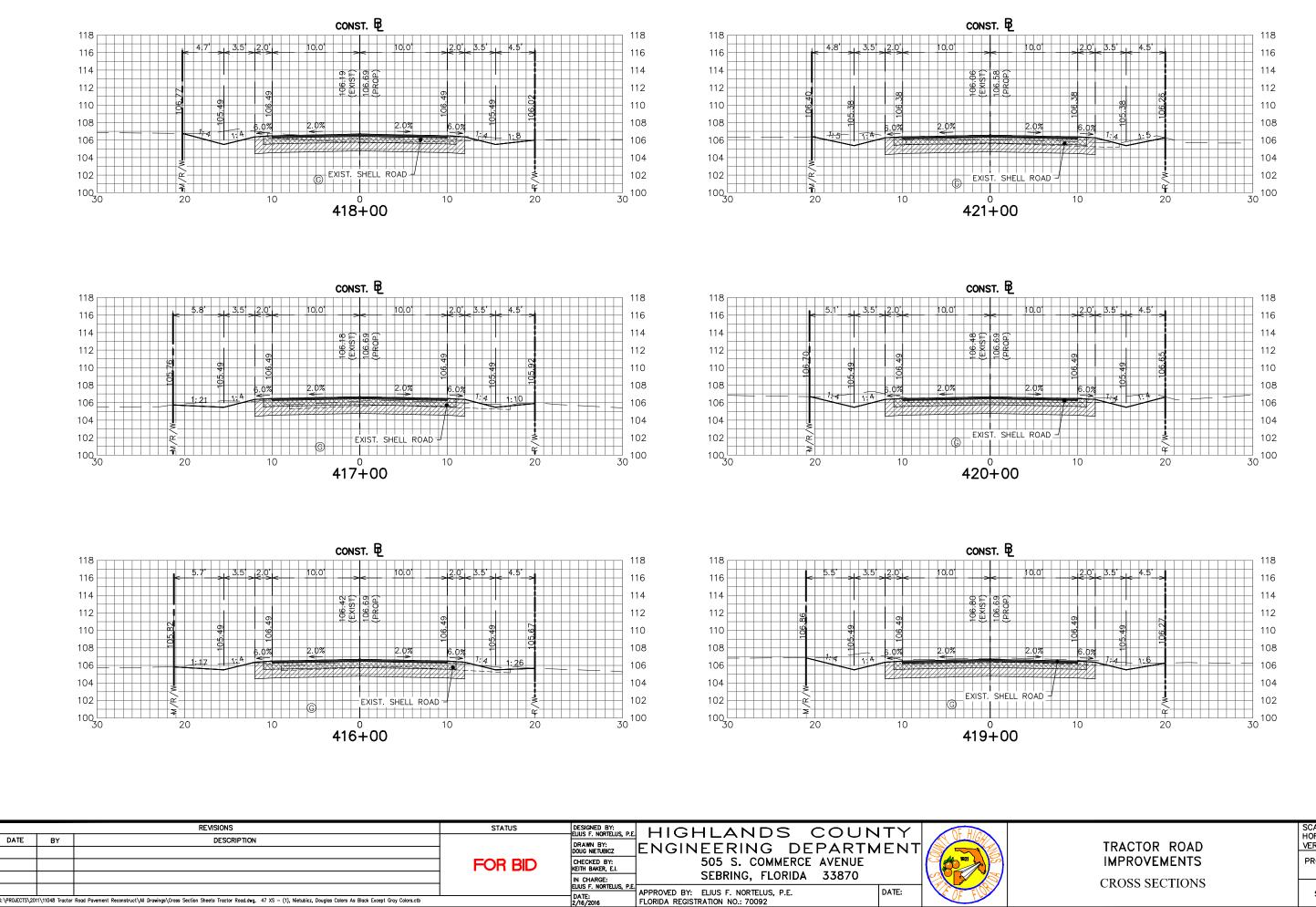
VALLEY GUTTER INLET TOP DETAIL



REV.

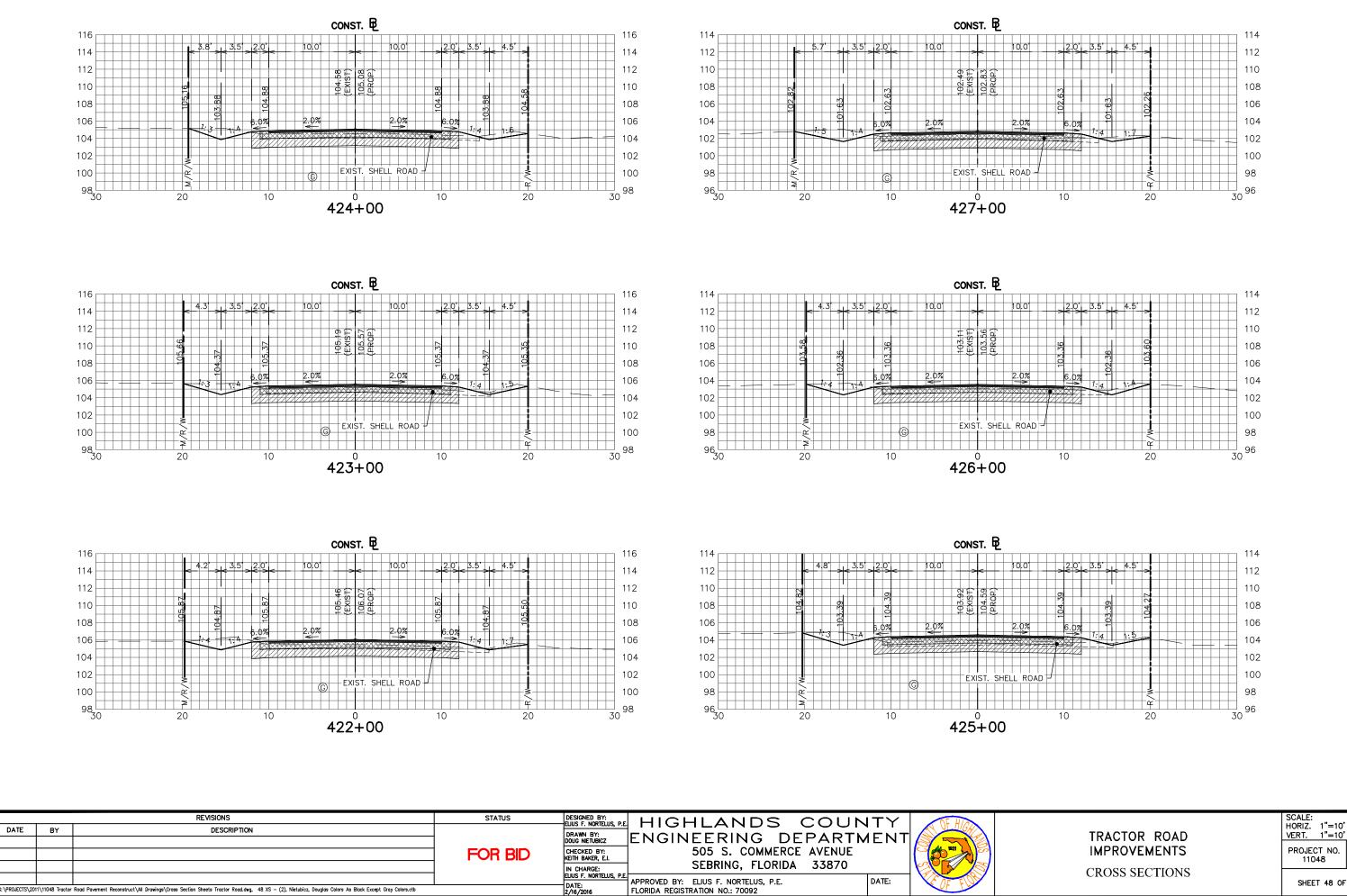






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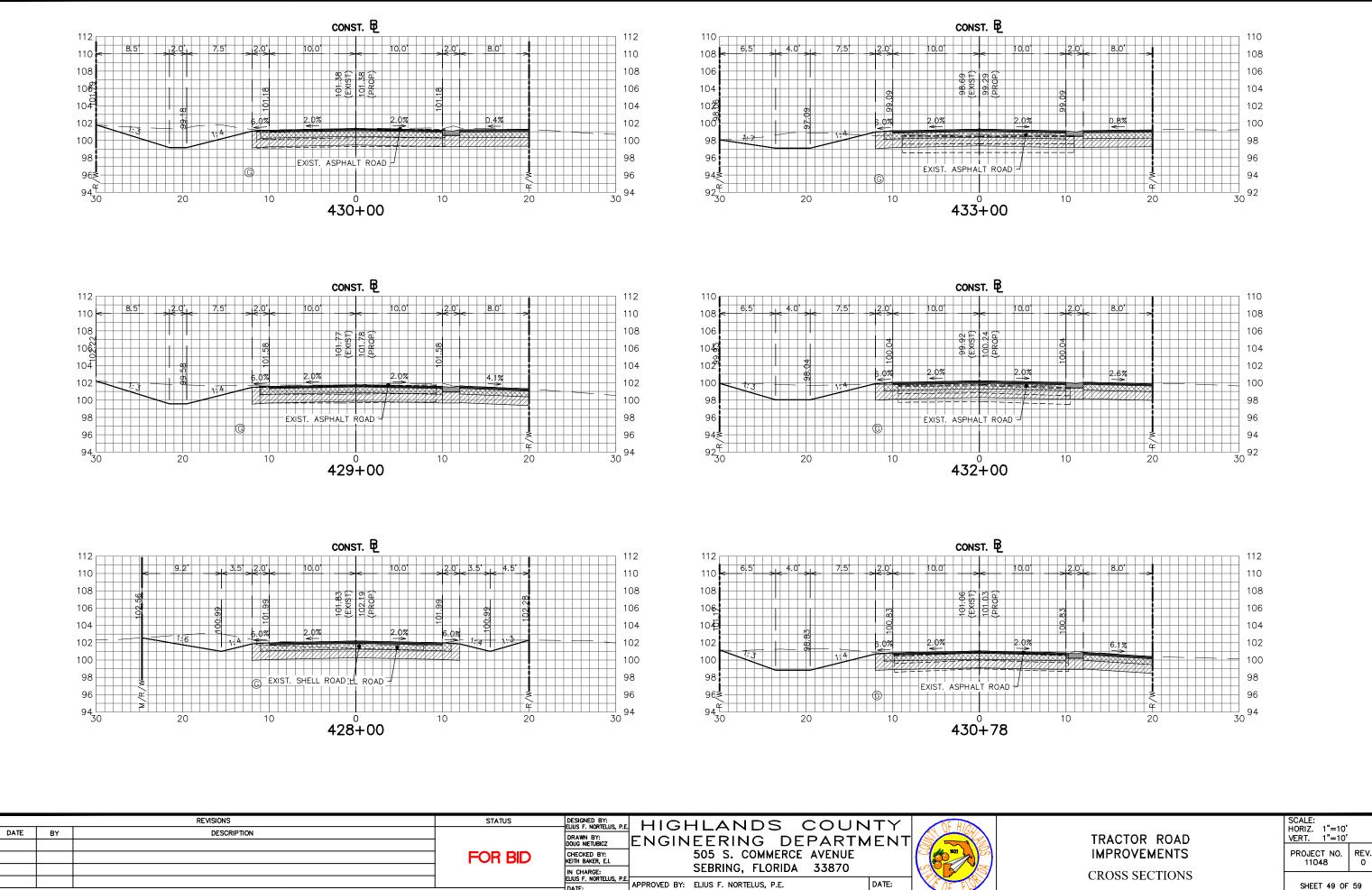
SCALE: HORIZ. 1"=10' VERT. 1"=10'	
PROJECT NO. 11048	RE\ 0
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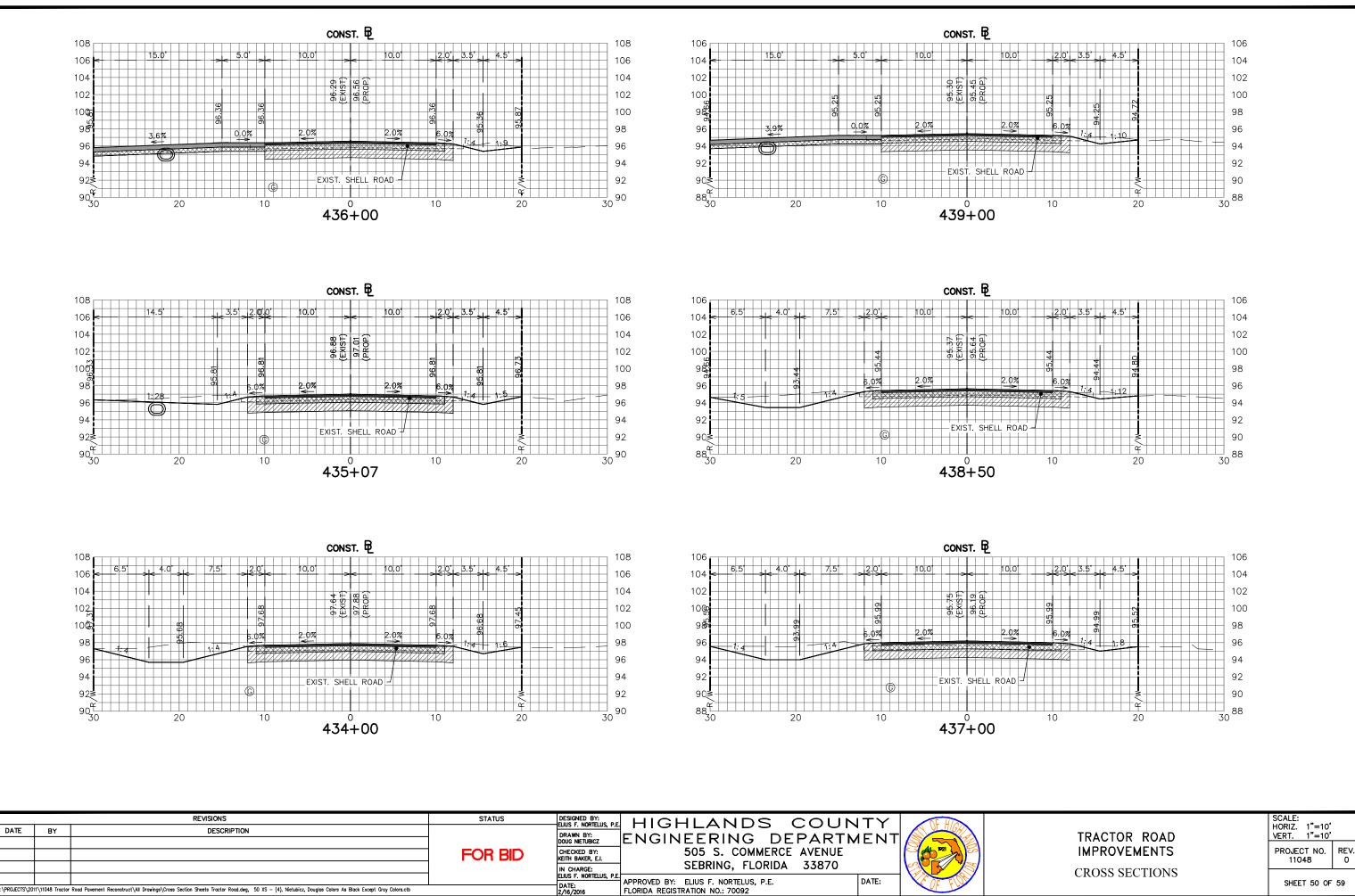
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VERT. 1"=10'	
PROJECT NO. 11048	REV 0



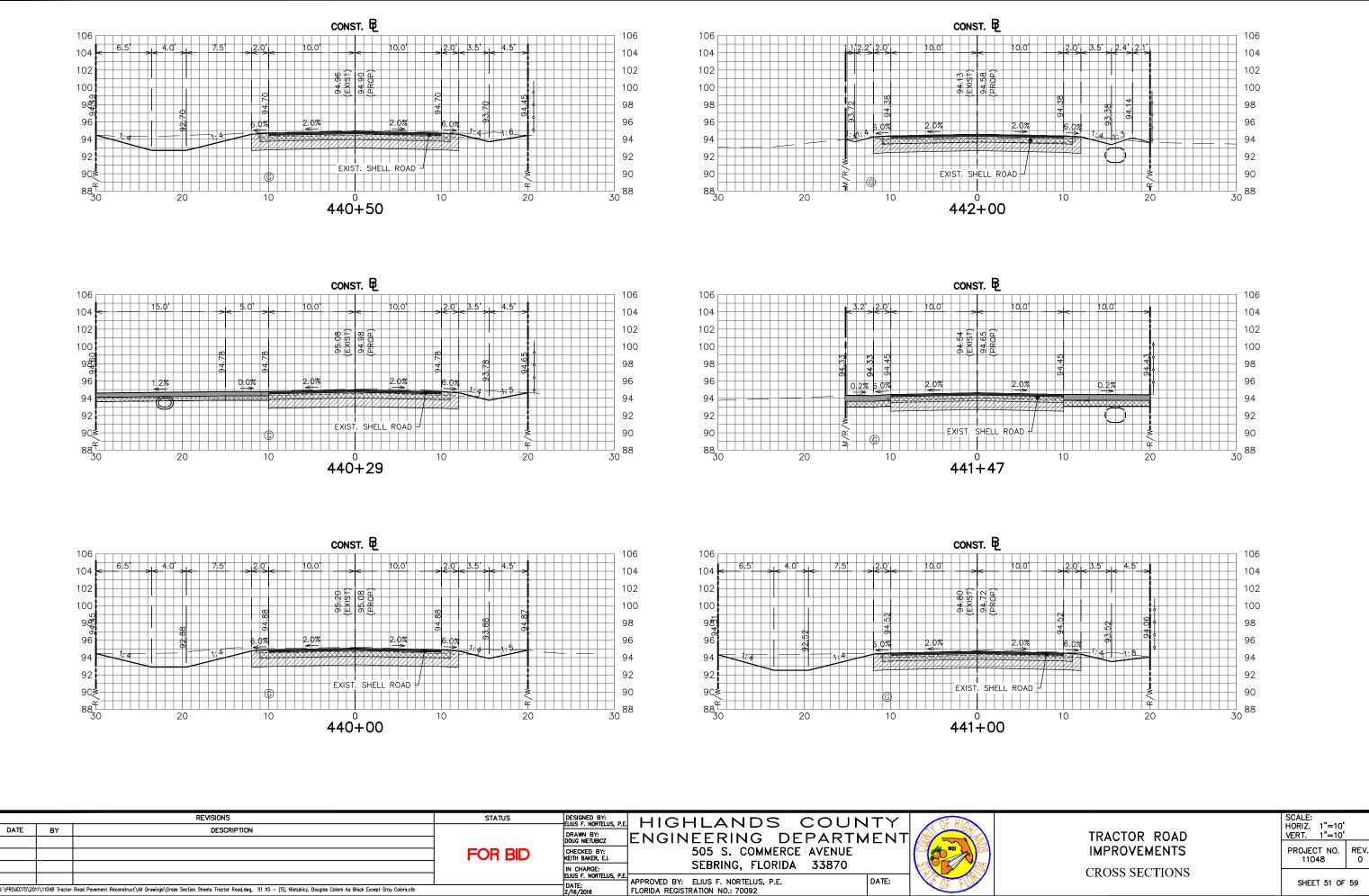
			CHECKED BY: KEITH BAKER, E.I.	505 S. COMMERCE A
			IN CHARGE:	SEBRING, FLORIDA 3
			ELIUS F. NORTELUS, P.E.	APPROVED BY: ELIUS F. NORTELUS, P.E.
G: \PROJECTS\201	11\11048 Tractor	Road Pavement Reconstruct\All Drawings\Cross Section Sheets Tractor Road.dwg, 49 XS - (3), Nietubicz, Douglas Colors As Black Except Gray Colors.ctb	DATE: 2/16/2016	FLORIDA REGISTRATION NO.: 70092

DATE:



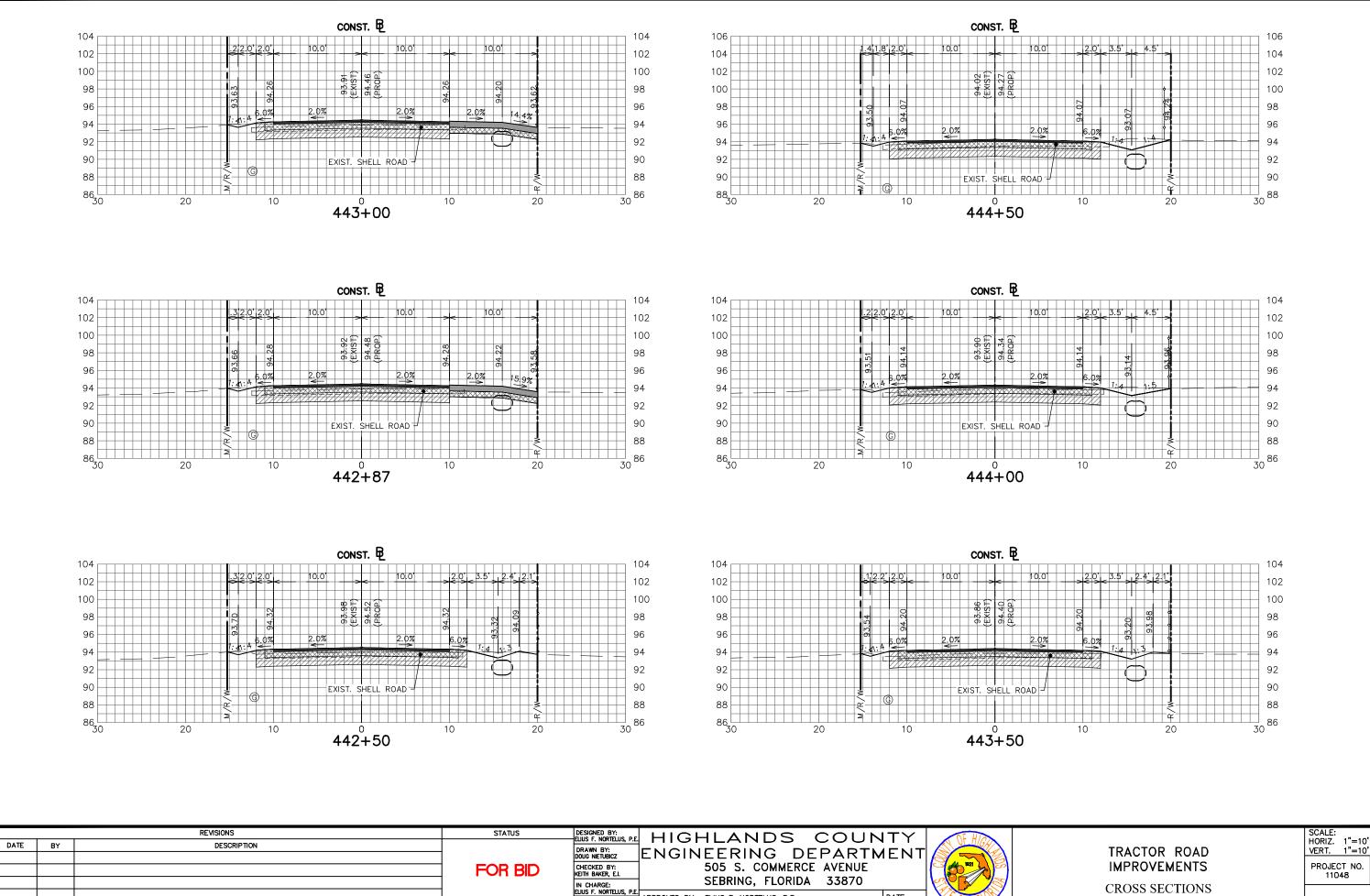
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SHEET 50 OF 59



G:\PRQJECTS\2011\11048 Tractor Road Pavement Reconstruct\All Drawings\Cross Section Sheets Tractor Road.dwg. 51 XS - (5), Nietubicz, Douglas Colors As Black Except Gray Colors.ctt

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

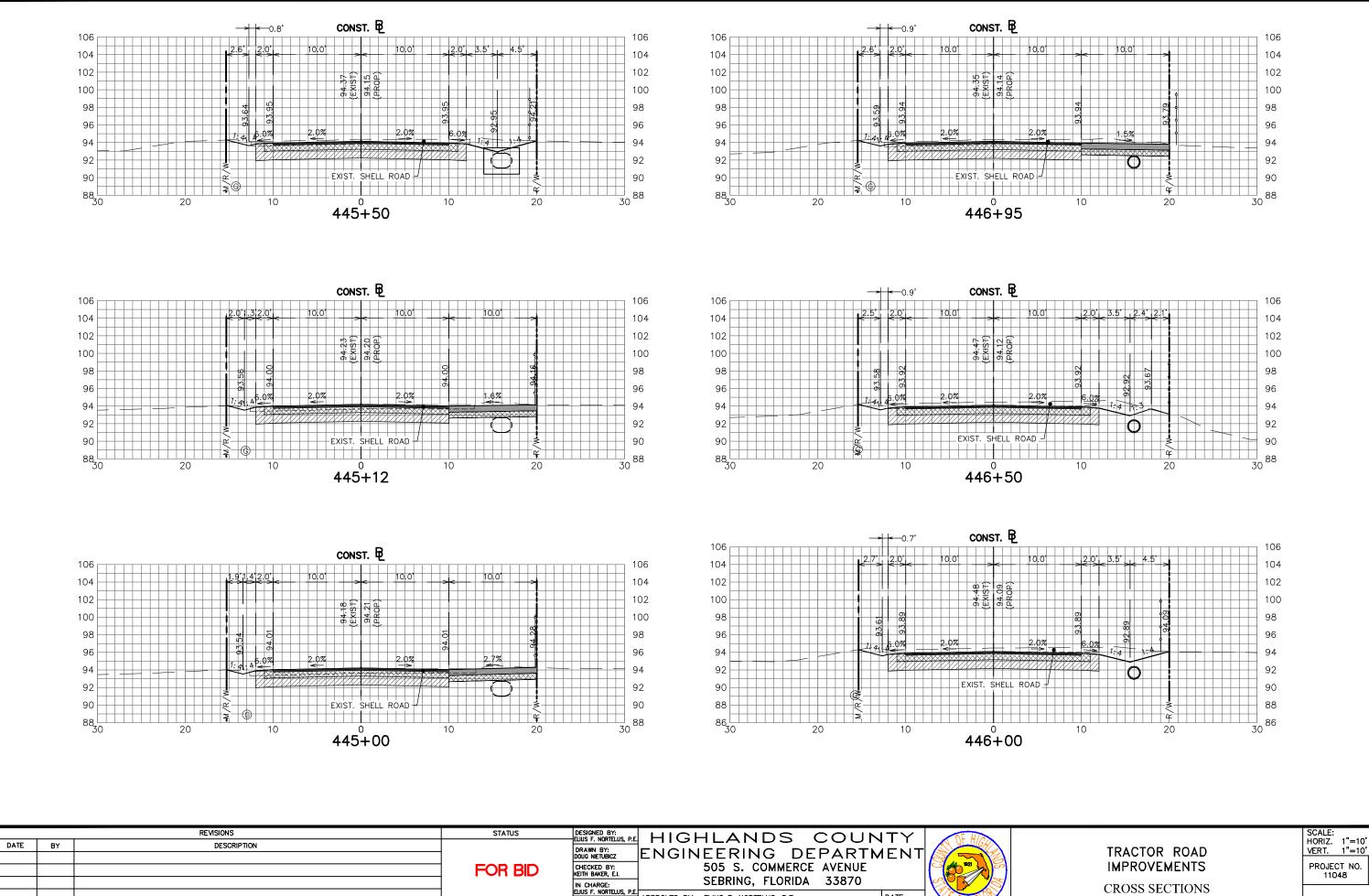
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DATE: 2/16/2016

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DATE:

VERT. 1"=10' PROJECT NO. REV. 11048 0



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

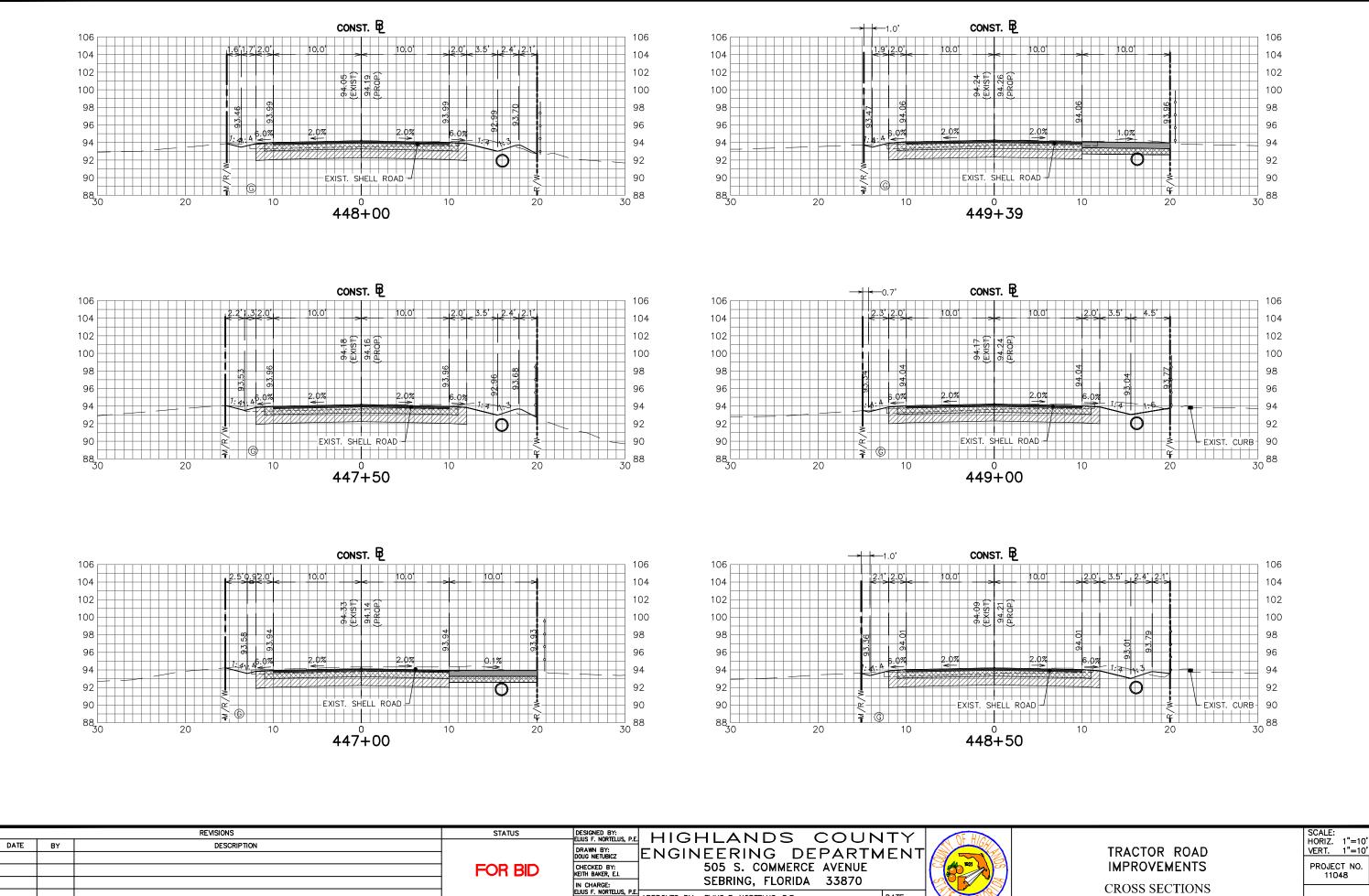
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SHEET 53 OF 59



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

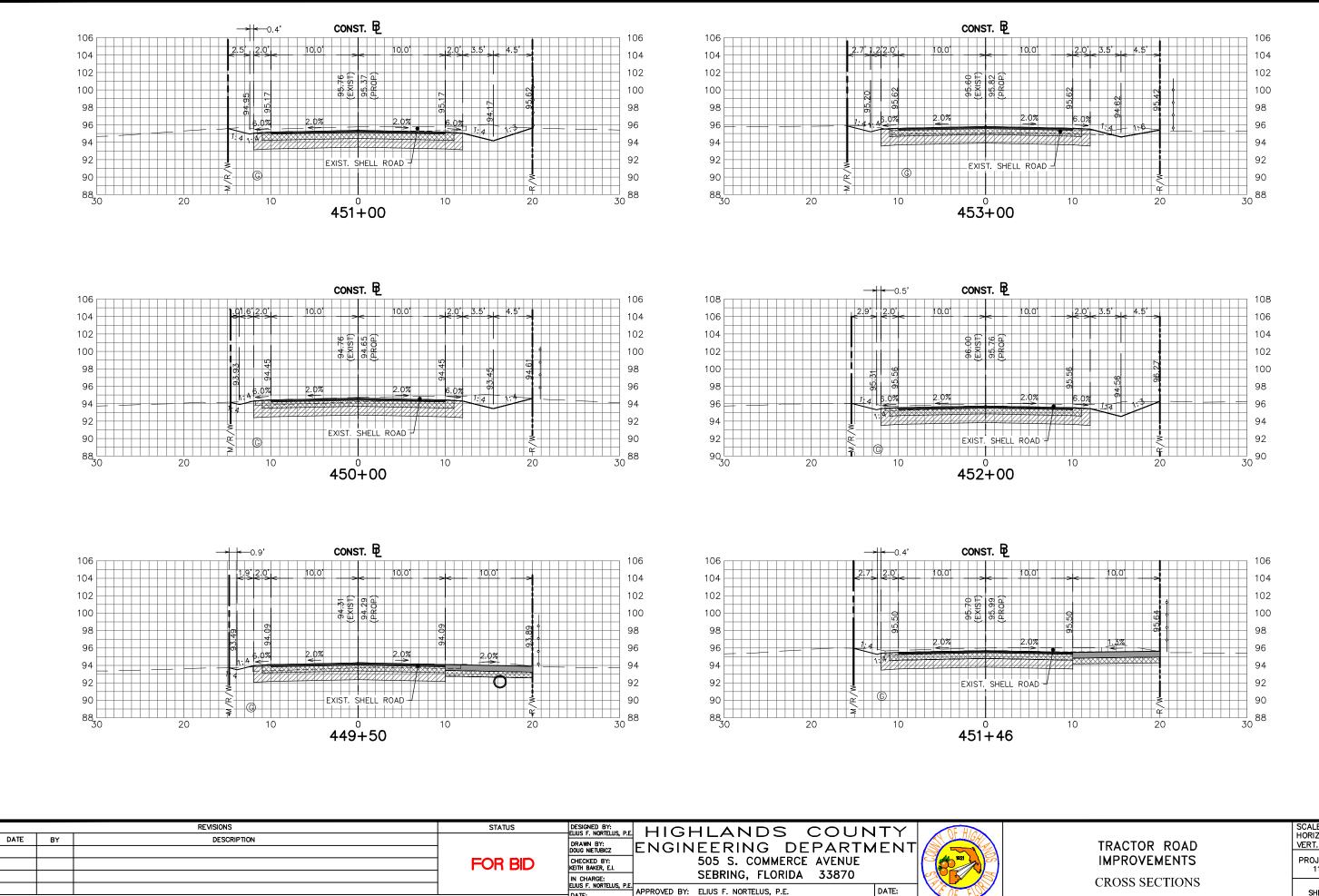
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DATE:

VERT. 1"=10' PROJECT NO. REV. 11048 0

SHEET 54 OF 59

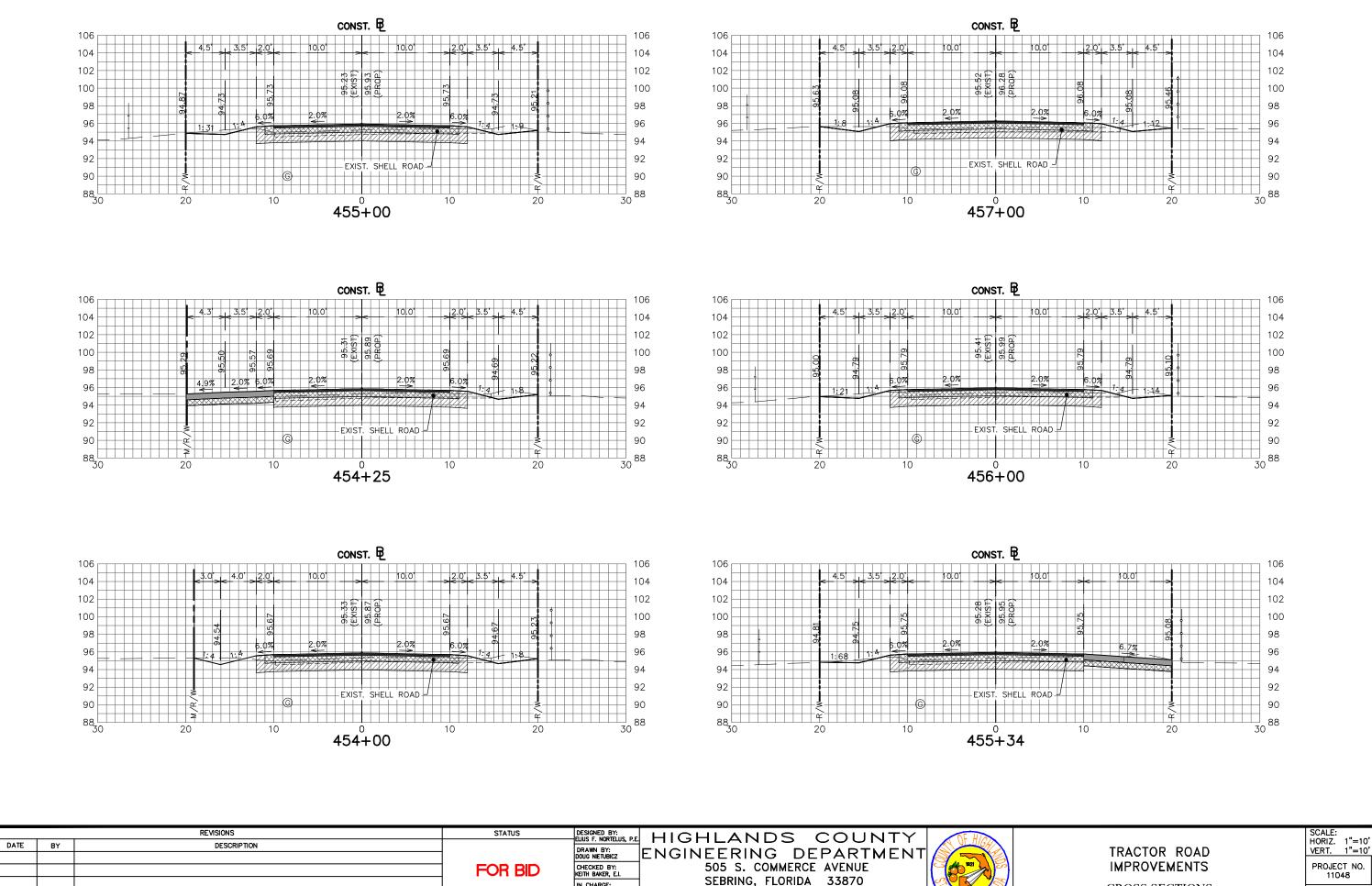


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SCALE: HORIZ. 1"=10' VERT. 1"=10' PROJECT NO. 11048 0

SHEET 55 OF 59



in Charge: Elius F. Nortelus, P.E. DATE: 2/16/2016 G:\PRQJECTS\2011\11048 Tractor Road Pavement Reconstruct\All Drawings\Cross Section Sheets Tractor Road.dwg, 56 XS - (10), Nietubicz, Douglas Colors As Black Except Gray Colors.ctb

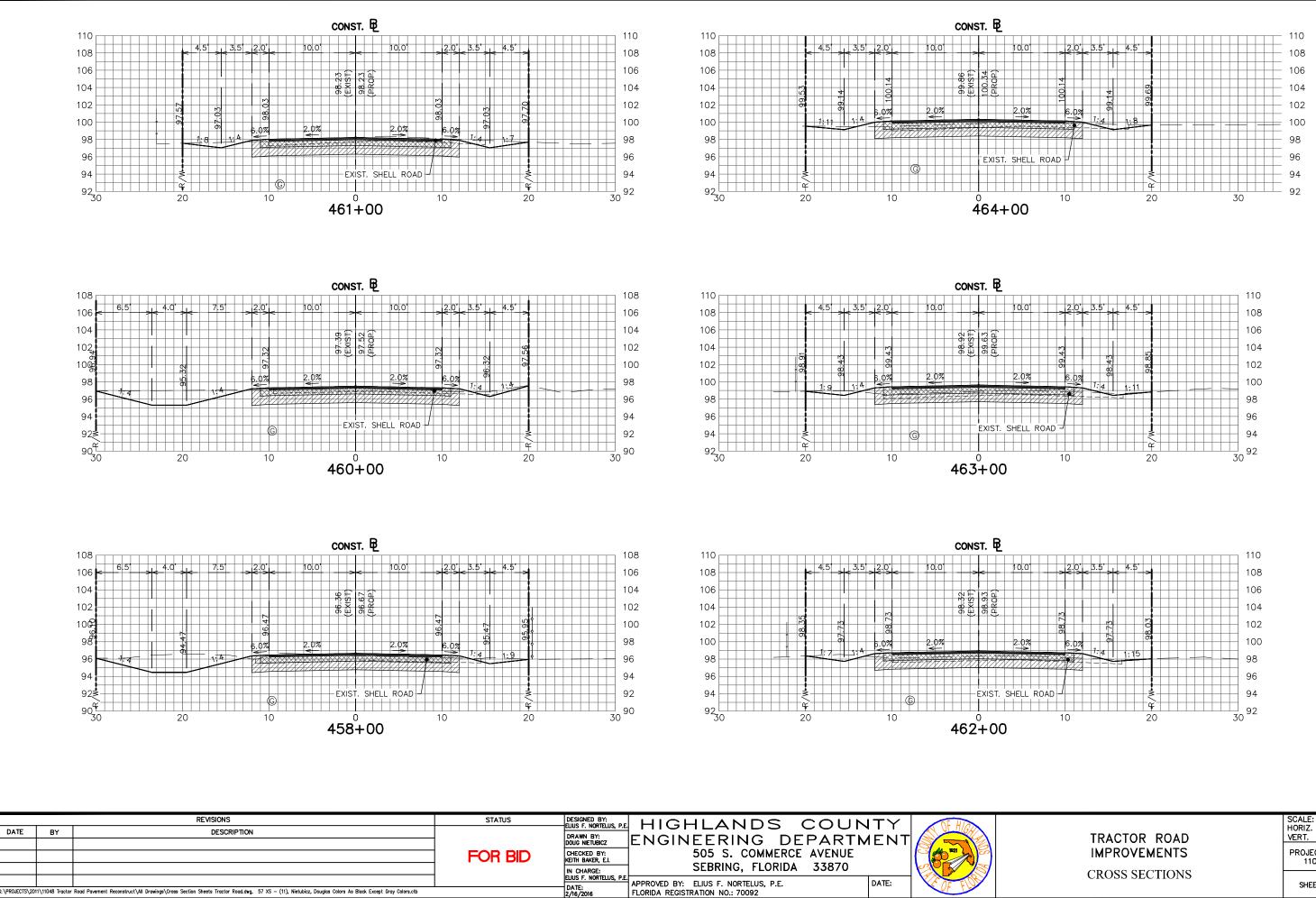
APPROVED BY: ELIUS F. NORTELUS, P.E. FLORIDA REGISTRATION NO.: 70092

DATE:

VERT. 1"=10' PROJECT NO. REV. 11048 0

CROSS SECTIONS

SHEET 56 OF 59



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FOR	ROAD	
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S SEC	TIONS	

HORIZ. VERT.	1"=10' 1"=10'	
PROJEC 110		REV 0

