

HIGHLANDS COUNTY BOARD OF COUNTY COMMISSIONERS CONSTRUCTION PLANS FOR TRACTOR ROAD IMPROVEMENTS HIGHLANDS COUNTY PROJECT NO. 11048 FDOT FPN: 430108-1-58-01

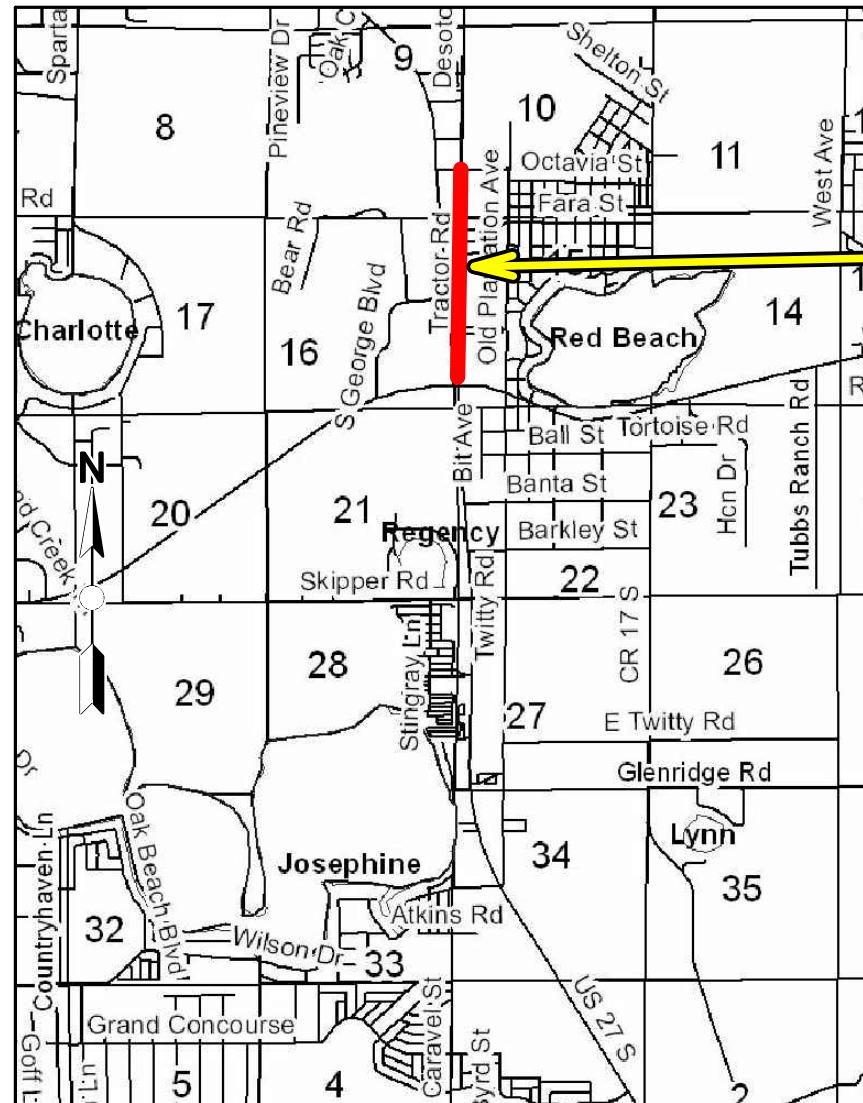
sunshine state
ONE CALL
of Florida

DIAL 811
Local No. 1-800-432-4770
Notification # 212400761
Call 48 hours before you dig.

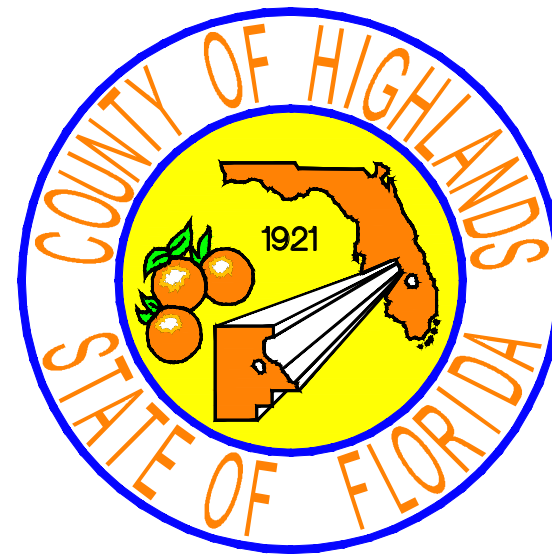
STATE LAW REQUIRES EXCAVATORS TO CALL 811 BEFORE DIGGING PER THE "UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT" CHAPTER 556, FLORIDA STATUTES. FAILURE TO CALL CAN RESULT IN FINES FROM \$250 TO \$5,000.

SHEET DESCRIPTION

- 1 COVER SHEET
- 2 F.E.M.A. FIRM MAP & U.S.G.S. QUADRANGLE MAP
- 3 GENERAL NOTES
- 4 QUANTITIES
- 5 LEGEND
- 6-7 TYPICAL SECTIONS
- 8-9 OVERVIEW PLAN
- 10-31 PLAN & PROFILE
- 32-42 SIGNING & PAVEMENT MARKING PLAN
- 43-46 DETAILS
- 47-59 CROSS SECTIONS



PROJECT LOCATION MAP
SCALE: 1" = 5280'



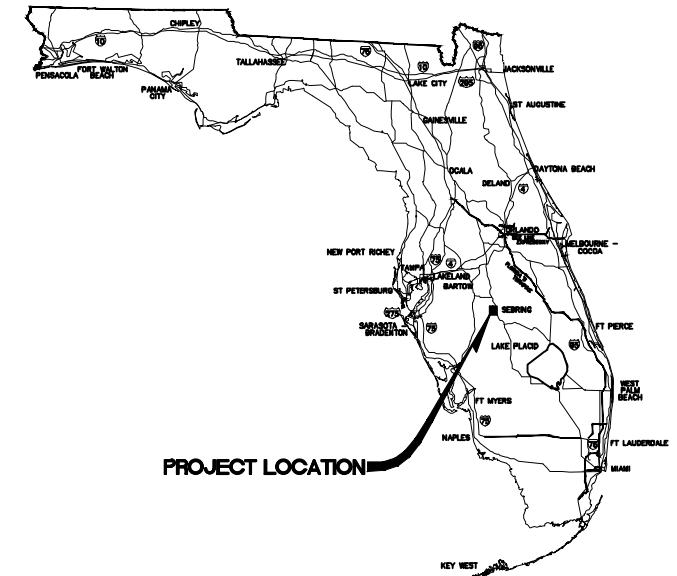
RAMON D. GAVARRETE, P.E.
COUNTY ENGINEER

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

RIGHT-OF-WAY WIDTH VARIES FROM 35' TO 50' WIDE
APPROXIMATE PROJECT LENGTH = 5720.68 LF (1.08 MILES)

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.



UTILITY COMPANIES

COMCAST CABLE
3010 HERRING AVENUE
SEBRING, FL 33870
YONHUI MIRANDA
863-381-1409

CENTURY LINK
924 MEMORIAL DRIVE
AVON PARK, FL 33825
KEN LUTZ
863-452-3185

DUKE ENERGY OF FLORIDA
5020 KENILWORTH BLVD
SEBRING, FL 33870
JEREMY ANDERSON
863-241-8152

SEBRING GAS SYSTEMS, INC.
3515 U.S. HIGHWAY 27
SEBRING, FL 33870
JERRY MELENDY
863-385-0194

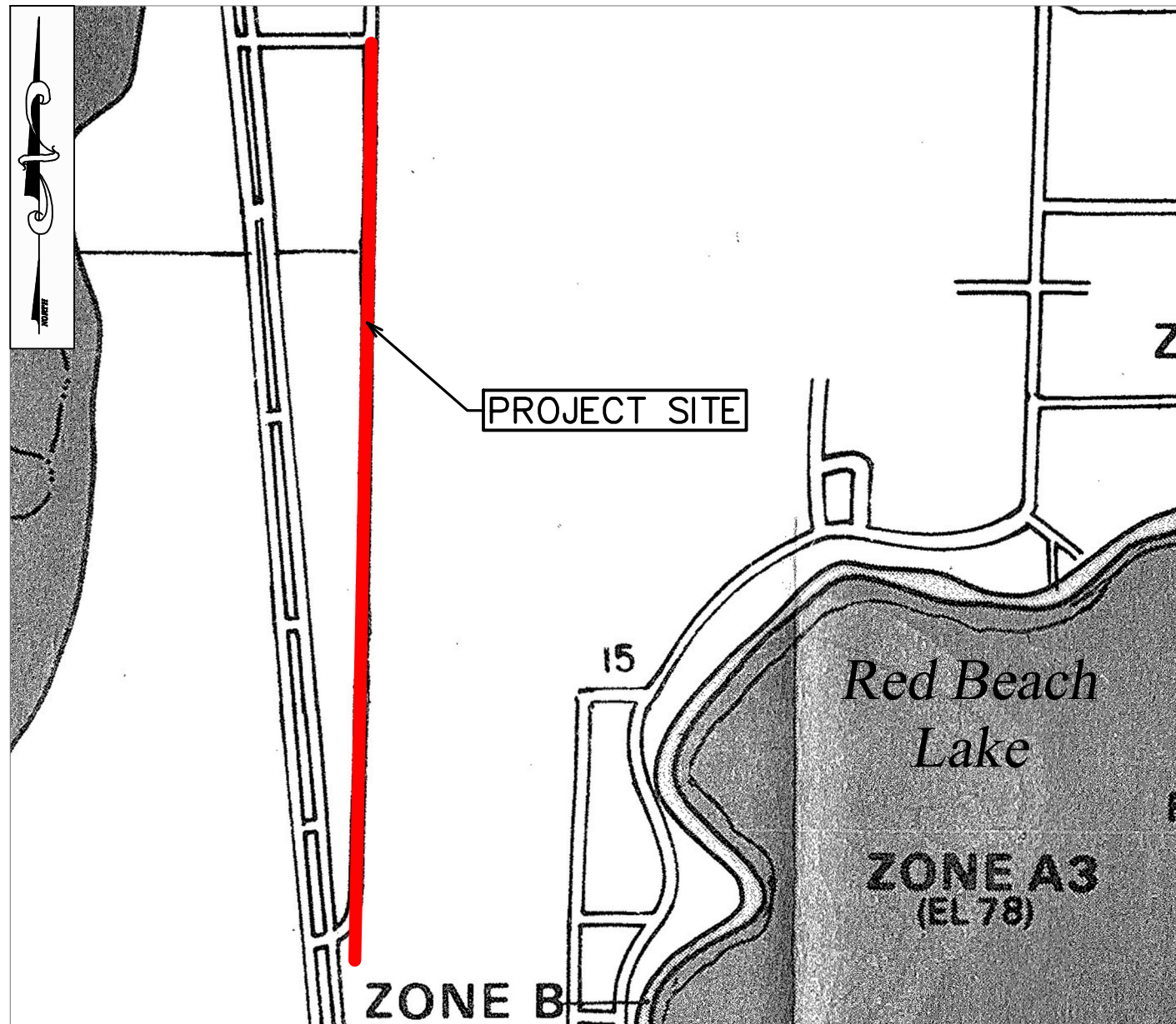
LEVEL 3 COMMUNICATIONS
1025 ELDORADO BLVD,
BLDG 13C04
BROOMFIELD, CO 80021
JUDY HENRY
720-888-2061

HIGHLANDS COUNTY TRAFFIC
505 S. COMMERCE AVE
SEBRING, FLORIDA 33870
EDDIE CARDONA
(863) 402-6877

GOVERNING STANDARDS AND SPECIFICATIONS:

1. FLORIDA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS DATED MAY 2011, AS AMENDED BY CONTRACT DOCUMENTS.
2. FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS DATED 2015, AS AMENDED BY CONTRACT DOCUMENTS.
3. FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2015, AS AMENDED BY CONTRACT DOCUMENTS.

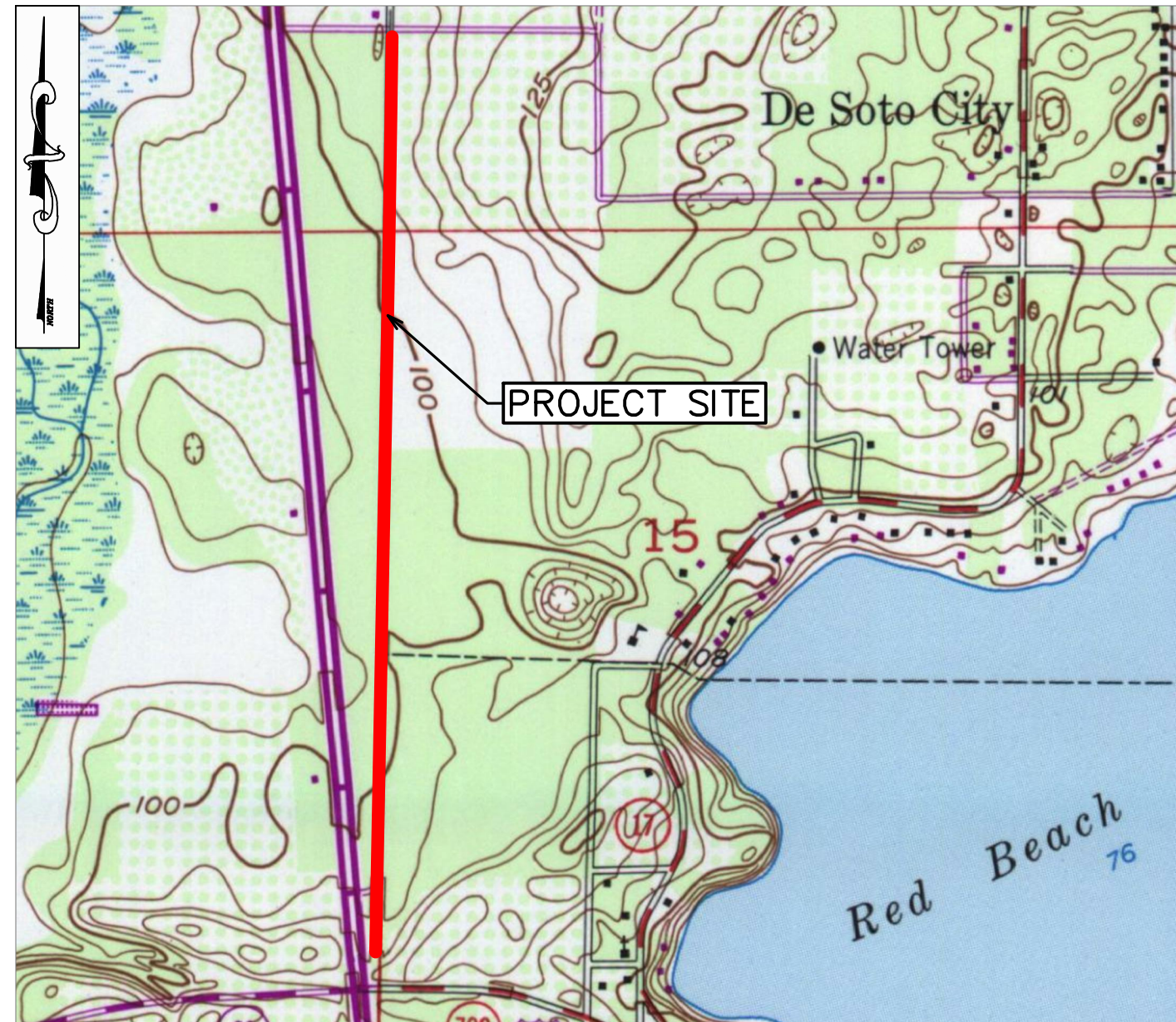
REVISIONS			STATUS	DESIGNED BY: ELIUS F. NORTELUS, P.E.	DRAWN BY: DOUG NIETUBICZ	CHECKED BY: KEITH BAKER, E.I.	IN CHARGE: ELIUS F. NORTELUS, P.E.	DATE: 3/7/2016	<div style="text-align: center;"> HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870 </div>		<div style="text-align: center;"> TRACTOR ROAD IMPROVEMENTS COVER SHEET </div>	SCALE: HORIZ. N/A VERT. N/A	PROJECT NO. 11048	REV. 0
DATE	BY	DESCRIPTION										FOR BID	APPROVED BY: ELIUS F. NORTELUS, P.E.	DATE:



Federal Emergency Management Agency (FEMA)
Map Panel Number 1201110075B

NGVD 1929 DATUM

Scale 1" = 1,000'



USGS QUADRANGLE NAME: SEBRING
DEP Quad Index 2812

NGVD 1929 DATUM

Scale 1" = 1,000'

This project is located within Flood Zone "C" according to the Federal Emergency Management Agency (FEMA) Map Panel Number 1201110075B, dated 02/16/1983. I hereby certify that the road segments to be paved are not subject to overtopping by a 1% chance storm event and do not require: any fill to elevate the roadway (other than the base and pavement up to a maximum height of eight (8) inches, and sub-base work provided there is no net addition of fill); any grading of side slopes; any alteration, expansion, or modification of drainage structures and bridges; any work in wetlands or other surface waters; or more than minor shoulder work to level the shoulders to meet the new pavement:

Elius F. Nortelus, P.E.
Asst. County Engineer

Signature _____ Date _____

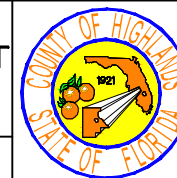
REVISIONS		STATUS
DATE	DESCRIPTION	
		FOR BID

DESIGNED BY:
ELIUS F. NORTELUS, P.E.
DRAWN BY:
D. NIETUBICZ
CHECKED BY:
KEITH BAKER, EI
IN CHARGE:
ELIUS F. NORTELUS, P.E.
DATE:
3/7/2016

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

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

DATE:



**TRACTOR ROAD
IMPROVEMENTS**
F.E.M.A. FIRM MAP &
U.S.G.S. QUADRANGLE MAP

SCALE:
HORIZ. 1"=1000'
VERT. N/A

PROJECT NO.
11048

REV.
0

SHEET 2 OF 59

GENERAL NOTES AND SPECIFICATIONS

GENERAL CONSTRUCTION NOTES

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

EROSION CONTROL

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

SURVEY AND STAKEOUT

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

UTILITIES

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

CLEARING AND GRUBBING

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

PAVING, GRADING AND DRAINAGE

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

PAVEMENT MARKING AND SIGNAGE

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

SOD

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

TESTING

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

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

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

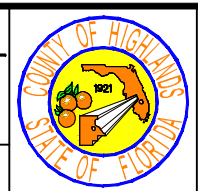
TRACTOR ROAD IMPROVEMENTS PROJECT NO. 11048		
CONTRACTOR REQUIRED QUALITY CONTROL MATERIALS TESTING		
Roadway Full Depth Construction: TYPE B STABILIZATION (LBR 40) TESTING REQUIREMENTS (12" COMPACTED THICKNESS)		
TEST NAME	QUALITY CONTROL	ACCEPTANCE
DENSITY	FOURTEEN (14) PER LIFT, FOURTEEN (14) TOTAL	Minimum density of 98% of the Modified Proctor maximum density as determined by FM 1-T 180, Method D
THICKNESS	FOURTEEN (14) PER LIFT, FOURTEEN (14) TOTAL	No undertolerance of mixing depth is allowed. Do not exceed individual plan depth thickness by more than 2".
LBR	TWO (2) PER LIFT, TWO (2) TOTAL	Undertolerance = 5.0
Stabilization Construction Method: For mixing exist. sub-base and base material 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	FOURTEEN (14) PER LIFT, FOURTEEN (14) TOTAL	Minimum density of 98% of the Modified Proctor maximum density as determined by FM 1-T 180, Method D
THICKNESS	FOURTEEN (14) PER LIFT, FOURTEEN (14) 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 (1.5" COMPACTED THICKNESS)		
TEST NAME	QUALITY CONTROL	ACCEPTANCE
THICKNESS	FOURTEEN (14) PER LIFT, FOURTEEN (14) TOTAL	Compacted lift thickness = 1.5", Tolerance = 0.3"
Asphalt Construction Method: Asphalt shall be placed in one (1) lift with a compacted lift thickness of 1.5".		
Commercial Driveways: OPTIONAL BASE GROUP 6 TESTING REQUIREMENTS (8" COMPACTED THICKNESS)		
TEST NAME	QUALITY CONTROL	ACCEPTANCE
DENSITY	ONE (1) PER LIFT PER DRIVEWAY, TWELVE (12) TOTAL	Minimum density of 95% of the Modified Proctor maximum density as determined by FM 1-T 180, Method D
THICKNESS	ONE (1) PER LIFT PER DRIVEWAY, TWELVE (12) TOTAL	Compacted lift thickness = 8", tolerance = 0.5"
Optional Base Group 6 Construction Method: Construct the base in one (1) equal lift with a compacted lift thickness of eight (8) inches.		
Residential Driveways: OPTIONAL BASE GROUP 4 TESTING REQUIREMENTS (6" COMPACTED THICKNESS)		
TEST NAME	QUALITY CONTROL	ACCEPTANCE
DENSITY	ONE (1) PER LIFT PER DRIVEWAY, THREE (3) TOTAL	Minimum density of 95% of the Modified Proctor maximum density as determined by FM 1-T 180, Method D
THICKNESS	ONE (1) PER LIFT PER DRIVEWAY, THREE (3) TOTAL	Compacted lift thickness = 6", tolerance = 0.5"

REVISIONS			STATUS
DATE	BY	DESCRIPTION	
			FOR BID

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

DESIGNED BY: KEITH BAKER, E.I.
DRAWN BY: KEITH BAKER, E.I.
CHECKED BY: ELIUS F. NORTELUS, P.E.
IN CHARGE: ELIUS F. NORTELUS, P.E.
DATE: 3/7/2016

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



**TRACTOR ROAD
IMPROVEMENTS**

GENERAL NOTES & SPECIFICATIONS

SCALE: HORIZ. N/A VERT. N/A	PROJECT NO. 11048	REV. 0
SHEET 3 OF 59		

TRACTOR ROAD IMPROVEMENTS 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
7	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
13	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 ASPHALTIC CONCRETE, TYPE SP-9.5, 1 1/2" COMPACTED THICKNESS (RAP 30% MAXIMUM)	1,300	TN
16	SUPERPAVE ASPHALTIC CONCRETE, TYPE SP-9.5, 1 1/2" COMPACTED THICKNESS (RAP 30% MAXIMUM), COMMERCIAL DRIVEWAY	40	TN
17	INLETS, DITCH BOTTOM, TYPE C	8	EA
18	INLETS, VALLEY GUTTER, USF 5100 FRAME AND 6147 GRATE, INCLUDE BOTTOM STRUCTURE	2	EA
19	18" x 12" REINFORCED CONCRETE PIPE	592	LF
20	HIGH-DENSITY POLYETHYLENE PIPE (HDPE), 15" DIA	420	LF
21	FRENCH DRAIN, 24" HDPE, INCLUDE COURSE AGGREGATE AND FILTER FABRIC	450	LF
22	CONCRETE MITERED END SECTION, 18" x 12"	14	EA
23	CONCRETE DROP CURB	540	LF
24	DRIVEWAY CONCRETE, 6" THICK INCLUDE 6" x 6" W1.4W1.4 WELDED WIRE MESH, 3,000 PSI MIN.	120	SY
25	DRIVEWAY CONCRETE, 8" THICK INCLUDE 6" x 6" W1.4W1.4 WELDED WIRE MESH, 3,000 PSI MIN.	830	SY
26	RETRO-REFLECTIVE PAVEMENT MARKERS	200	EA
27	SINGLE POST SIGN, REMOVE	3	EA
28	SINGLE POST SIGN, F&I, STOP (R1-1), 30"x30"	8	EA
29	SINGLE POST SIGN, F&I, SPEED LIMIT, 35 MPH (R2-1), 24"x30"	4	EA
30	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 6"	12,000	LF
31	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 24"	150	LF
32	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, YELLOW, SOLID, 6"	2,000	LF
33	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, YELLOW, SKIP, 6"	5,500	LF
34	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"	12,000	LF
35	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	150	LF
36	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"	2,000	LF
37	THERMOPLASTIC, STANDARD, YELLOW, SKIP, 6"	5,500	LF
38	PERFORMANCE TURF (SOD)	15,000	SY

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

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.

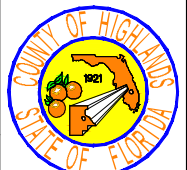
1.2 The amount of reclaimed asphalt pavement (RAP) material shall not exceed 30% by weight of total aggregate for the asphalt.

1.3 The thickness of the compacted asphalt for all roadway and parking lot shall be 1 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.

REVISIONS DATE BY DESCRIPTION	STATUS <div style="font-size: 2em; color: red; font-weight: bold; text-align: center;">FOR BID</div>	DESIGNED BY: KEITH BAKER, E.I. DRAWN BY: KEITH BAKER, E.I. CHECKED BY: ELIUS F. NORTELUS, P.E. IN CHARGE: ELIUS F. NORTELUS, P.E. DATE: 3/7/2016	HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870		TRACTOR ROAD IMPROVEMENTS TABULATION OF QUANTITIES AND DEDUCTIVE ALTERNATE NO. 1	SCALE: HORIZ. N/A VERT. N/A PROJECT NO. 11048 REV. 0
APPROVED BY: ELIUS F. NORTELUS, P.E. FLORIDA REGISTRATION NO.: 70092			DATE:	SHEET 4 OF 59		

G:\PROJECTS\2011\11048 Tractor Road Pavement Reconstruct\All Drawings\Cover Notes Quantities Tractor Road.dwg, 4 Cover Notes Quantities Tractor Road - QNTY TEST UTILITY COMP, Baker, Keith J. Colors As Block Except Gray Colors.ctb

LINE LEGEND

---OHW---	---OHW---	---OHW---	OVERHEAD WIRES
---BE---	---BE---	---BE---	BURIED ELECTRIC
---CAS---	---CAS---	---CAS---	CONDUIT & CASEMENTS
---BFO---	---BFO---	---BFO---	BURIED FIBER OPTIC
---BT---	---BT---	---BT---	BURIED TELEPHONE
---FM---	---FM---	---FM---	FORCE MAIN
- - - - -G	- - - - -G	- - - - -G	GAS LINE
---W---	---W---	---W---	WATER LINE
---CTV---	---CTV---	---CTV---	CABLE TELEVISION
X-X-X-X-X	X-X-X-X-X	X-X-X-X-X	WIRE FENCE
○-○-○-○-○-○-○	○-○-○-○-○-○-○	○-○-○-○-○-○-○	CHAIN LINK FENCE
□-□-□-□-□-□-□	□-□-□-□-□-□-□	□-□-□-□-□-□-□	WOOD FENCE
---	---	---	EXISTING TOP OF BANK
---	---	---	EXISTING TOE OF SLOPE
---	---	---	EXISTING EDGE OF SHELL ROCK
---	---	---	EXISTING RIGHT OF WAY LINE
---	---	---	PROPOSED RIGHT OF WAY LINE
---	---	---	EXISTING GRADE AT R/W RT (PROFILE VIEW)
---	---	---	EXISTING GRADE AT R/W LT (PROFILE VIEW)
---	---	---	EXISTING GRADE AT CONST BL (PROFILE VIEW)
---	---	---	EXISTING CONTOURS WITH ELEVATIONS
---	---	---	PROPOSED CONTOURS WITH ELEVATIONS
---	---	---	EXISTING GUARDRAIL
---	---	---	EXISTING EASEMENT
---	---	---	GOVERNMENT FRACTIONAL LINES
---	---	---	LOT LINES
---	---	---	PROPOSED SOD SHOULDER LINE
---	---	---	PROPOSED TOE OF SLOPE
---	---	---	PROFILE GRADE LINE (PROFILE VIEW)
---	---	---	PROPOSED CURVE RETURN
---	---	---	PROPOSED CENTERLINE OR BASELINE
---	---	---	TEMPORARY SEDIMENT BARRIER

SYMBOL LEGEND

	CONTROL POINT
	CONCRETE MONUMENT
	IRON ROD OR IRON PIPE
	NAIL AND DISK
	CLEANOUT
	ELECTRIC METER
	FLAG ELECTRIC
	FLAG FIBER OPTIC
	FLAG GAS
	FLAG SEWER
	FLAG TELEPHONE
	FLAG WATER
	FIRE HYDRANT
	GAS VALVE
	ELECTRIC BOX
	TELEPHONE BOX
	TELEVISION BOX
	TRAFFIC SIGNAL BOX
	PEDESTRIAN CROSSWALK
	LIGHT POLE
	MANHOLE DRAINAGE
	MANHOLE OTHER
	MANHOLE SEWER
	MANHOLE TELEPHONE
	MONITORING WELL
	UTILITY POLE
	WATER METER
	WATER VALVE
	WELL
	EXISTING GRADE SHOT
	PROPOSED ELEVATIONS
	BOLLARD
	MAIL BOX
	SIGN
	MITERED END SECTION
	GUY ANCHOR

ABBREVIATIONS

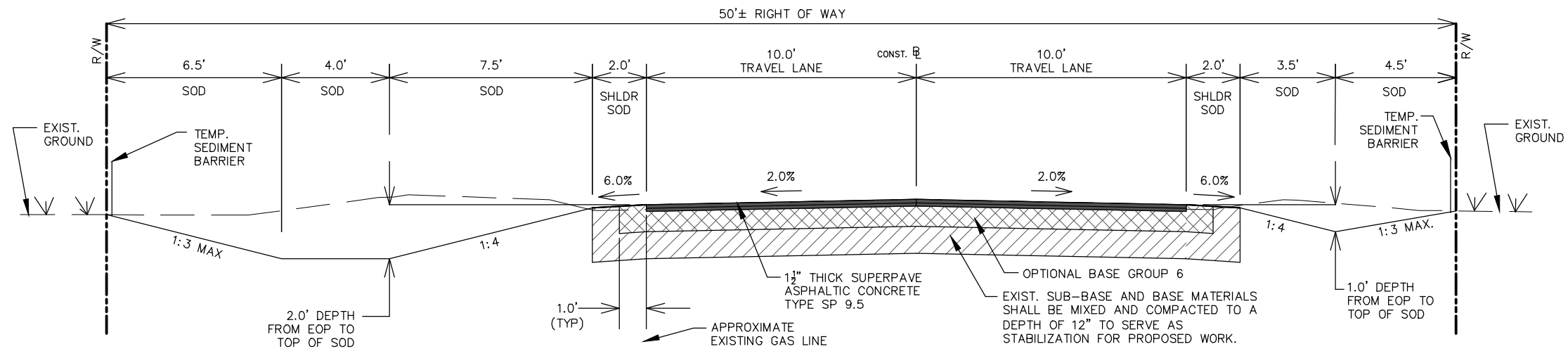
A.D.	ALGEBRAIC DIFFERENCE
BFS	BEGIN FULL SUPER
BL	BASELINE
BNC	BEGIN NORMAL CROWN
CMP	CORRUGATED METAL PIPE
CONC.	CONCRETE
CONST.	CONSTRUCTION
EFS	END FULL SUPER
ELEV	ELEVATION
ENC	END NORMAL CROWN
EX.	EXISTING
HDPE	HIGH DENSITY POLYETHYLENE PIPE
LC	LONG CHORD
LT	LEFT
MES	MITERED END SECTION
M/R/W	MAINTAINED RIGHT OF WAY
PAVT	PAVEMENT
PC	POINT OF CURVATURE
PGL	PROFILE GRADE LINE
PR.	PROPOSED
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
R/W	RIGHT OF WAY
RC	REVERSE CROWN
RCP	REINFORCED CONCRETE PIPE
RT	RIGHT
STA	STATION
TYP	TYPICAL

HATCH LEGEND

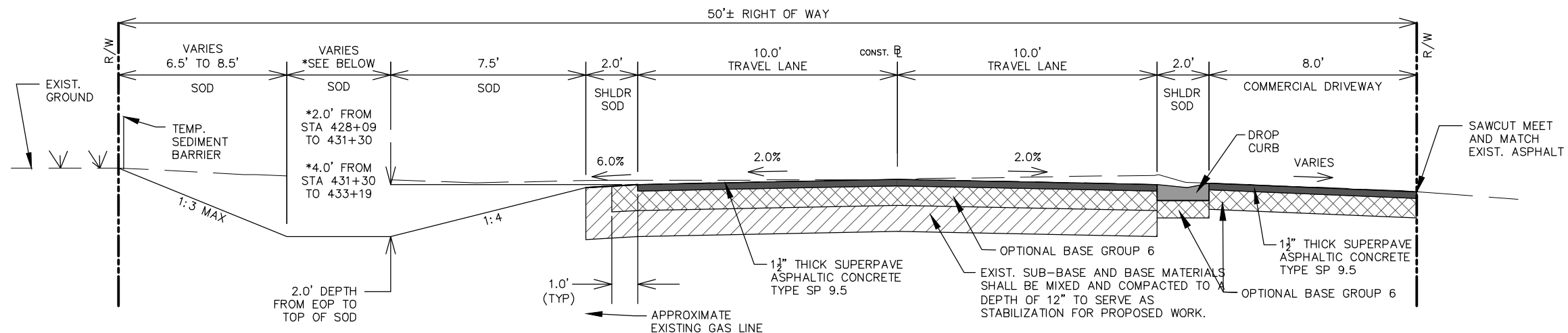
	PROPOSED ASPHALT PAVING
	PROPOSED CONCRETE
	EXISTING CONCRETE DRIVEWAY
	EXISTING SHELL ROCK

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REVISIONS		STATUS	DESIGNED BY: ELIUS F. NORTELUS, P.E.	HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870					 COUNTY OF HIGHLANDS STATE OF FLORIDA	TRACTOR ROAD IMPROVEMENTS LEGEND		SCALE: HORIZ. 1"=40' VERT. N/A																																												
DATE	BY				DESCRIPTION	PROJECT NO. 11048	REV. 0																																																	

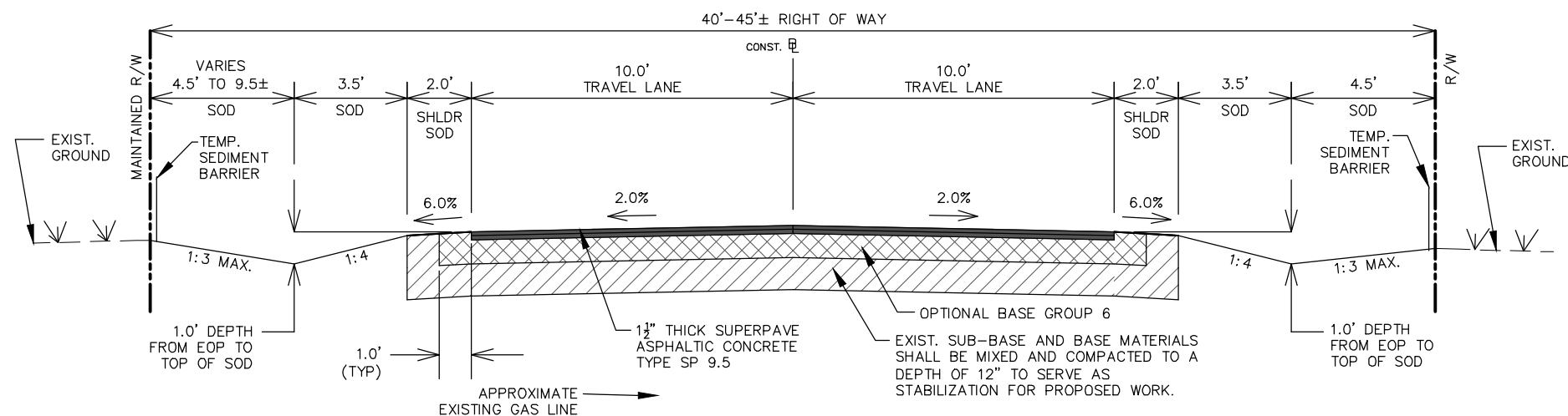
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FROM STATION 433+19 TO 441+19 AND FROM STATION 457+56 TO 460+84



FROM STATION 428+09 TO 433+19



FROM STATION 414+89 TO 428+09

STABILIZATION CONSTRUCTION METHOD:
 FOR MIXING EXISTING SUB-BASE AND BASE MATERIAL PROVIDE HEAVY-DUTY ROTARY TILLER OR OTHER EQUIPMENT APPROVED BY THE ENGINEER AS EQUALLY EFFECTIVE FOR THIS WORK.

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:
3/7/2016

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

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

DATE: _____



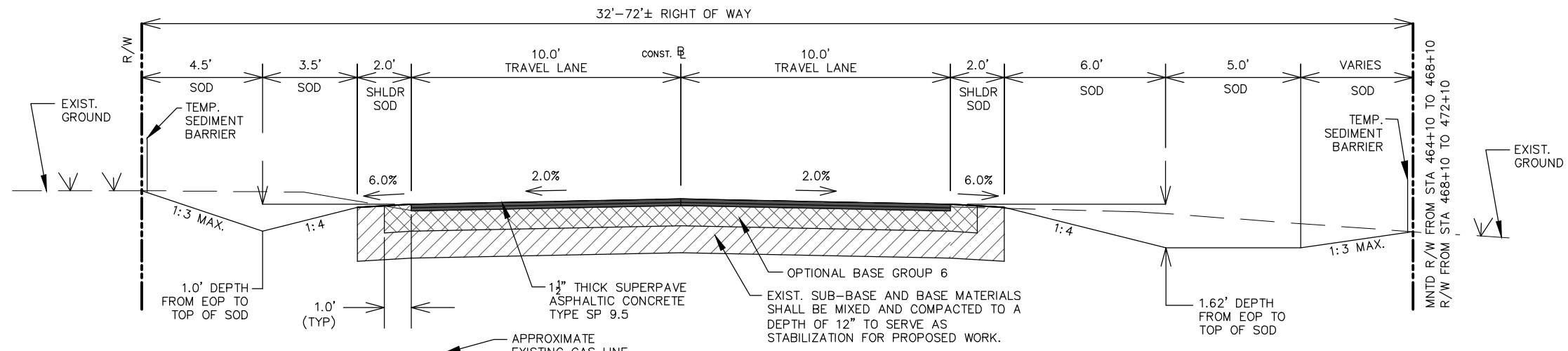
**TRACTOR ROAD
 IMPROVEMENTS**
 TYPICAL SECTION

SCALE:
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 VERT. 1"=5'

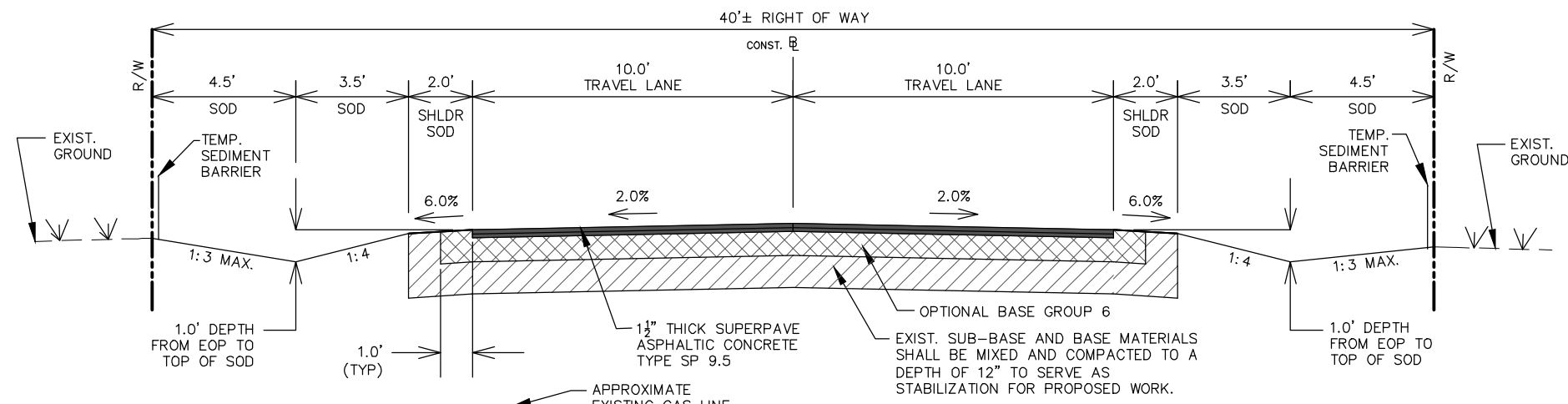
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11048

REV.
0

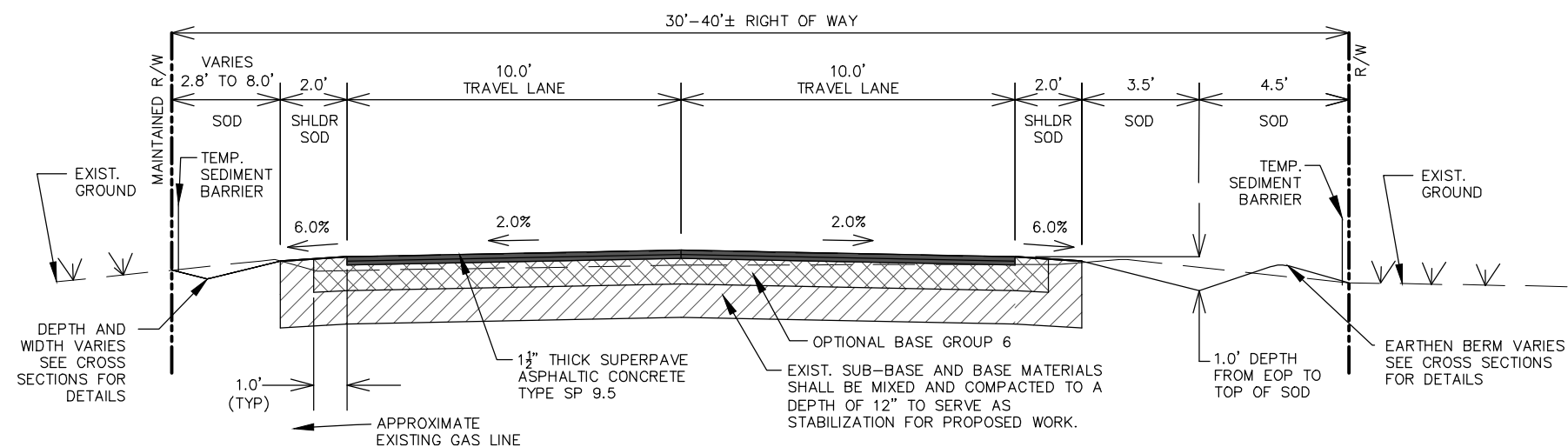
SHEET 6 OF 59



FROM STATION 464+10 TO 472+10



FROM STATION 454+28 TO 457+56 AND FROM STATION 460+84 TO 464+10



FROM STATION 441+19 TO 454+28

STABILIZATION CONSTRUCTION METHOD:
FOR MIXING EXISTING SUB-BASE AND BASE MATERIAL PROVIDE HEAVY-DUTY ROTARY TILLER OR OTHER EQUIPMENT APPROVED BY THE ENGINEER AS EQUALLY EFFECTIVE FOR THIS WORK.

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:
3/7/2016

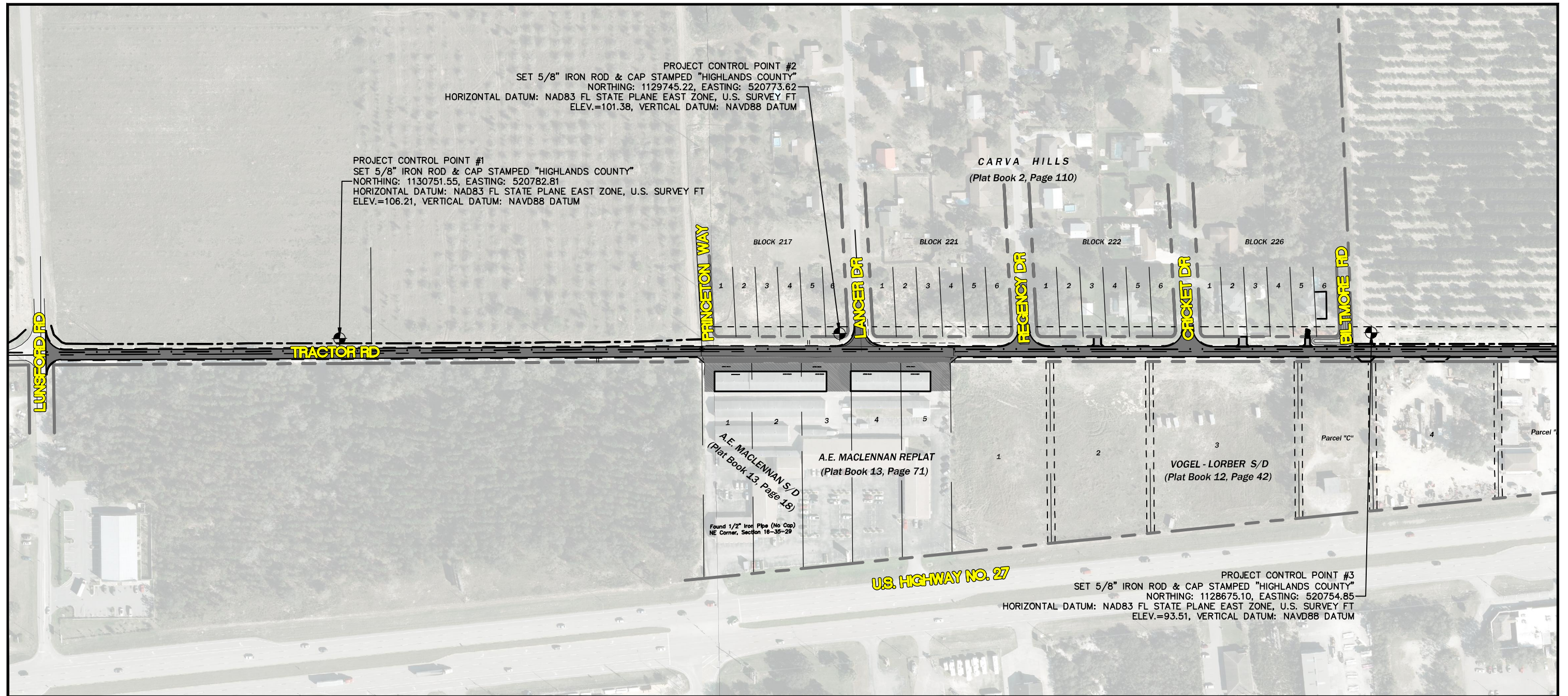
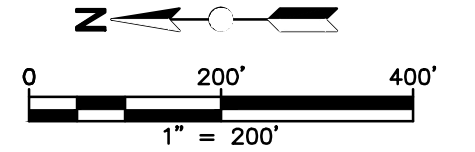
**HIGHLANDS COUNTY
ENGINEERING DEPARTMENT**
505 S. COMMERCE AVENUE
SEBRING, FLORIDA 33870

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



**TRACTOR ROAD
IMPROVEMENTS**
TYPICAL SECTION

SCALE: HORIZ. 1"=5' VERT. 1"=5'	
PROJECT NO. 11048	REV. 0
SHEET 7 OF 59	



REVISIONS		STATUS
DATE	DESCRIPTION	
		FOR BID

DESIGNED BY:
KEITH BAKER, E.I.

DRAWN BY:
DOUG NIETUBICZ

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

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

DATE:
3/7/2016

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

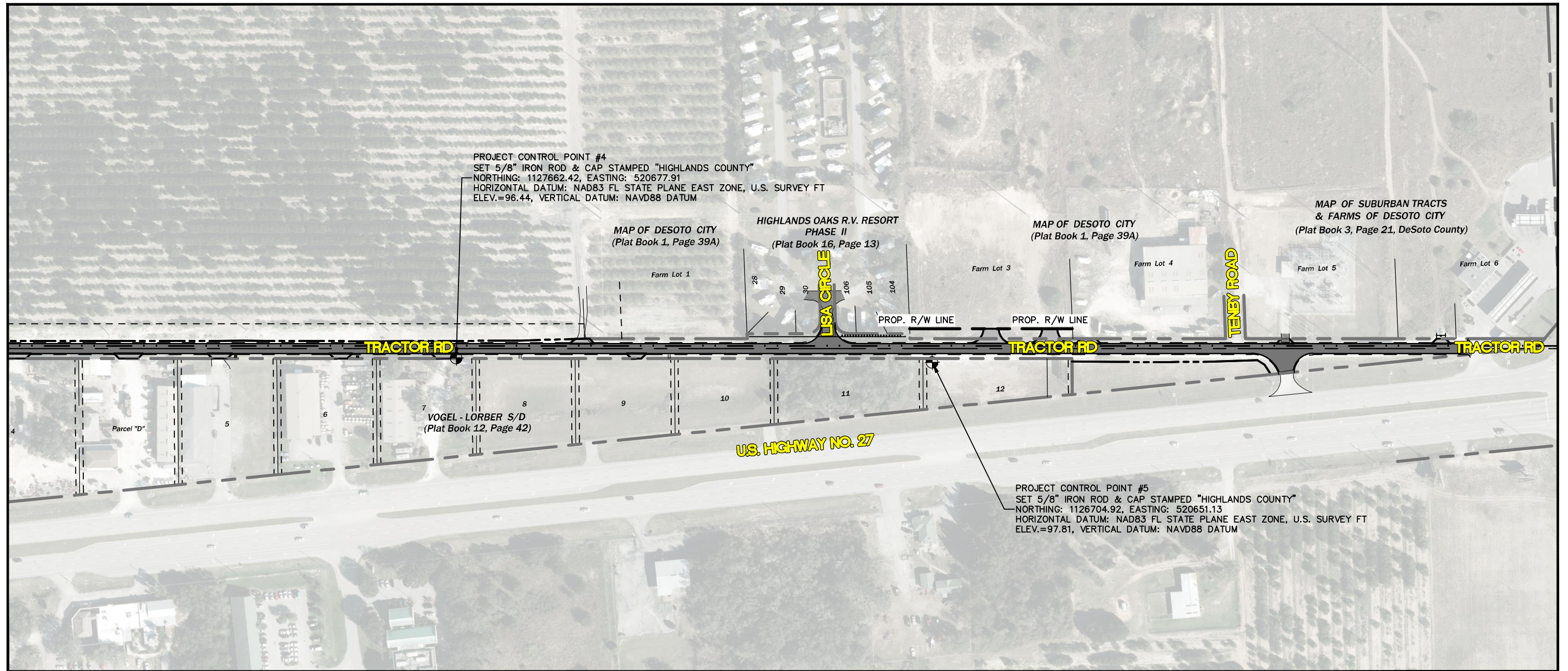
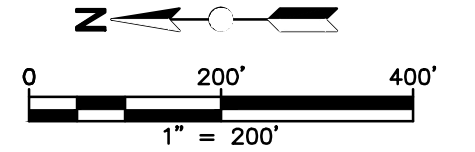
APPROVED BY: ELIUS F. NORTELUS, P.E.
FLORIDA REGISTRATION NO.: 70092

DATE: _____



**TRACTOR ROAD
IMPROVEMENTS
OVERVIEW PLAN**

SCALE: HORIZ. 1"=200' VERT. N/A	
PROJECT NO. 11048	REV. 0
SHEET 8 OF 59	



PROJECT CONTROL POINT #4
 SET 5/8" IRON ROD & CAP STAMPED "HIGHLANDS COUNTY"
 NORTHING: 1127662.42, EASTING: 520677.91
 HORIZONTAL DATUM: NAD83 FL STATE PLANE EAST ZONE, U.S. SURVEY FT
 ELEV.=96.44, VERTICAL DATUM: NAVD88 DATUM

PROJECT CONTROL POINT #5
 SET 5/8" IRON ROD & CAP STAMPED "HIGHLANDS COUNTY"
 NORTHING: 1126704.92, EASTING: 520651.13
 HORIZONTAL DATUM: NAD83 FL STATE PLANE EAST ZONE, U.S. SURVEY FT
 ELEV.=97.81, VERTICAL DATUM: NAVD88 DATUM

REVISIONS		
DATE	BY	DESCRIPTION

STATUS

FOR BID

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



**TRACTOR ROAD
 IMPROVEMENTS
 OVERVIEW PLAN**

SCALE: HORIZ. 1"=200' VERT. N/A	
PROJECT NO. 11048	REV. 0
SHEET 9 OF 59	

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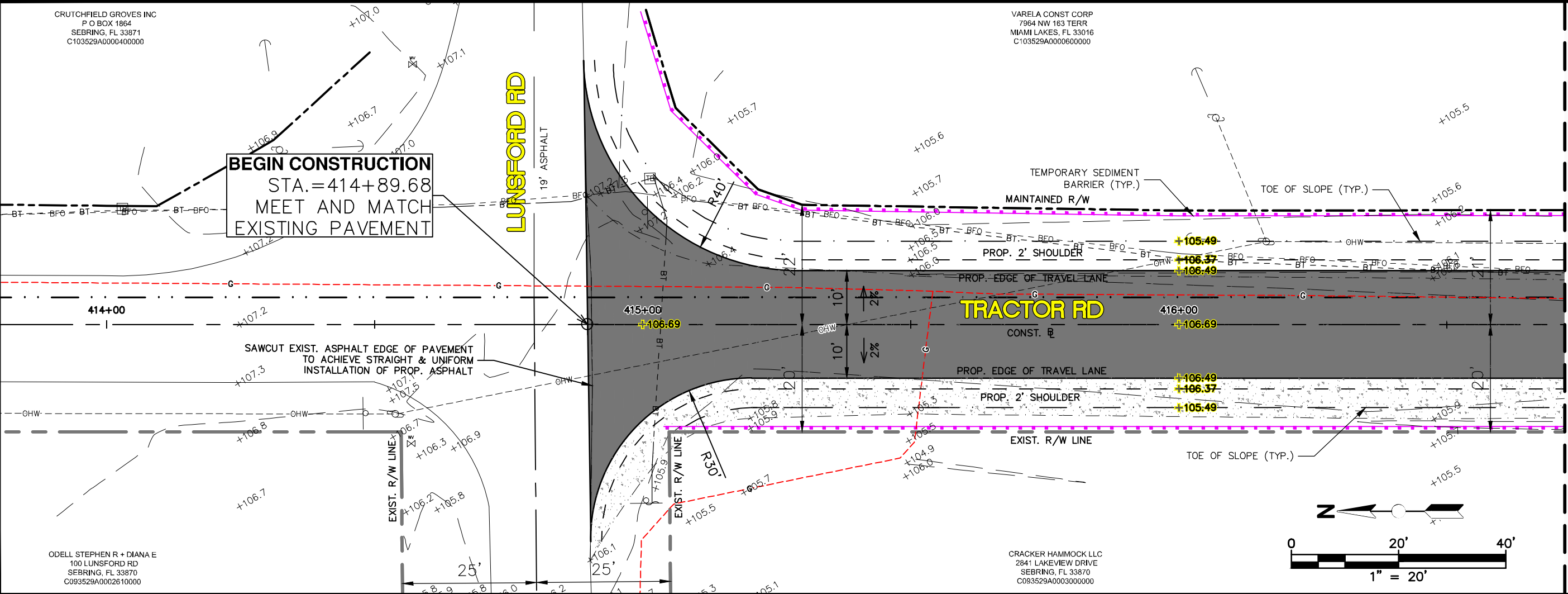
DESIGNED BY:
KEITH BAKER, E.I.
 DRAWN BY:
DOUG NIETUBICZ
 CHECKED BY:
ELIUS F. NORTELUS, P.E.
 IN CHARGE:
ELIUS F. NORTELUS, P.E.
 DATE:
3/7/2016

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

DATE:

CRUTCHFIELD GROVES INC
P.O. BOX 1864
SEBRING, FL 33871
C103529A0000400000

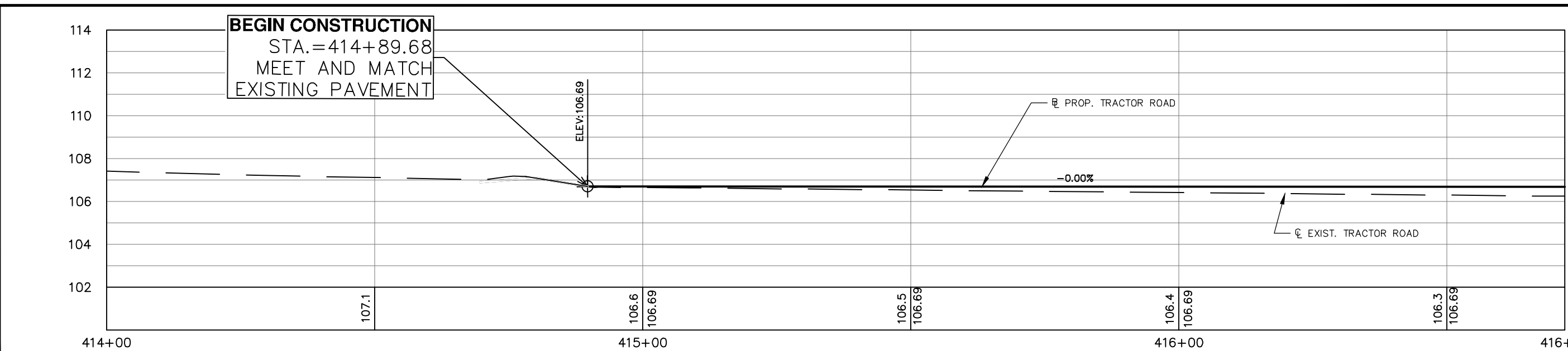
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7964 NW 163 TERR
MIAMI LAKES, FL 33016
C103529A0000600000



See Sheet 9

Matchline - 1

See Sheet 11



REVISIONS		
DATE	BY	DESCRIPTION

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

DESIGNED BY: KEITH BAKER, E.I.
DRAWN BY: DOUG NIETUBICZ
CHECKED BY: ELIUS F. NORTELUS, P.E.
IN CHARGE: ELIUS F. NORTELUS, P.E.
DATE: 3/7/2016

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FLORIDA REGISTRATION NO.: 70092

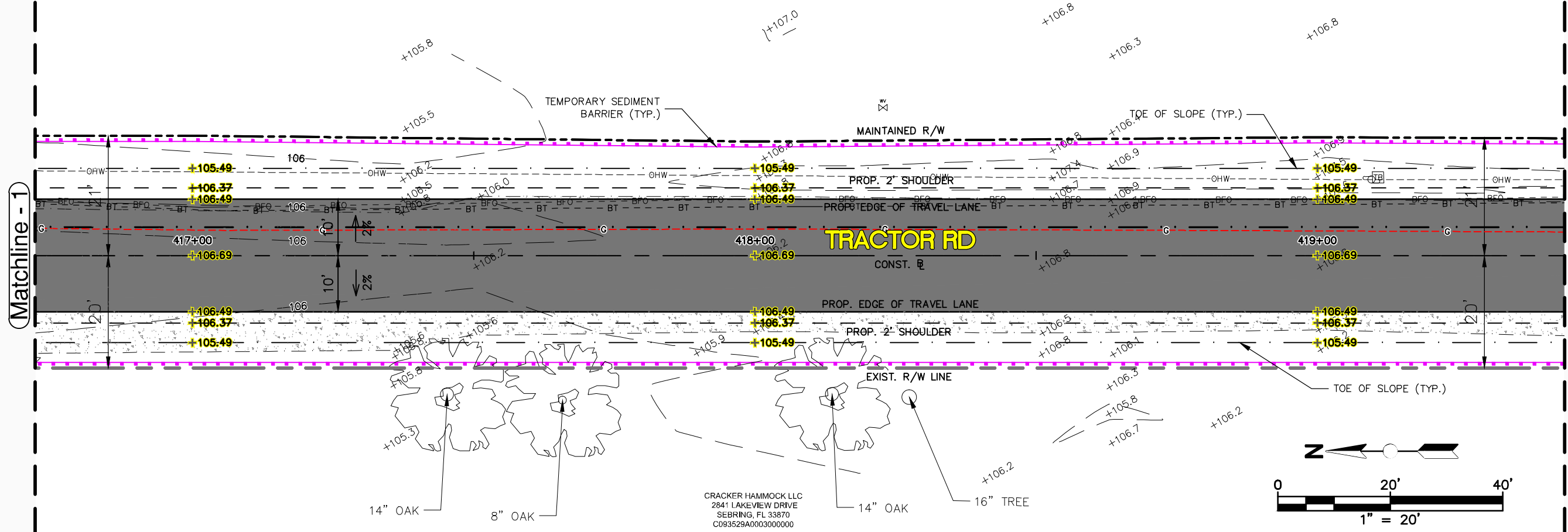
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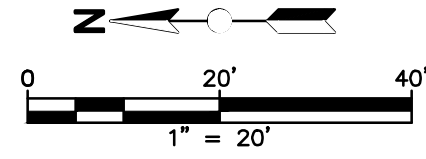
TRACTOR ROAD IMPROVEMENTS
PLAN & PROFILE

SCALE: HORIZ. 1"=20' VERT. 1"=5'	
PROJECT NO. 11048	REV. 0
SHEET 10 OF 59	

VARELA CONST CORP
7964 NW 163 TERR
MIAMI LAKES, FL 33016
C103529A0000600000

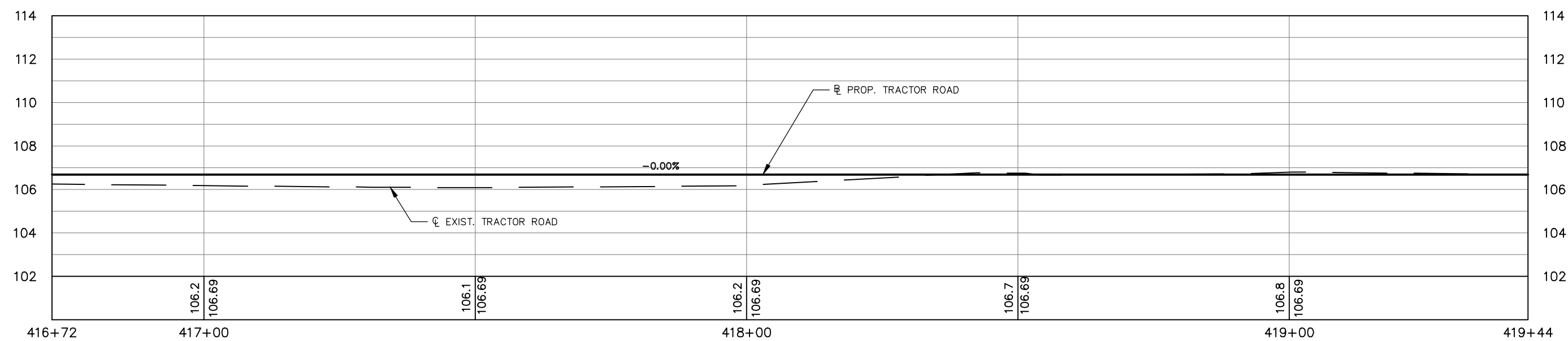


CRACKER HAMMOCK LLC
2841 LAKEVIEW DRIVE
SEBRING, FL 33870
C093529A00003000000



See Sheet 10

See Sheet 12



REVISIONS		STATUS
DATE	DESCRIPTION	
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DESIGNED BY:
KEITH BAKER, E.I.
DRAWN BY:
DOUG NIETUBICZ
CHECKED BY:
ELIUS F. NORTELUS, P.E.
IN CHARGE:
ELIUS F. NORTELUS, P.E.
DATE:
3/7/2016

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

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

DATE: _____



**TRACTOR ROAD
IMPROVEMENTS**
PLAN & PROFILE

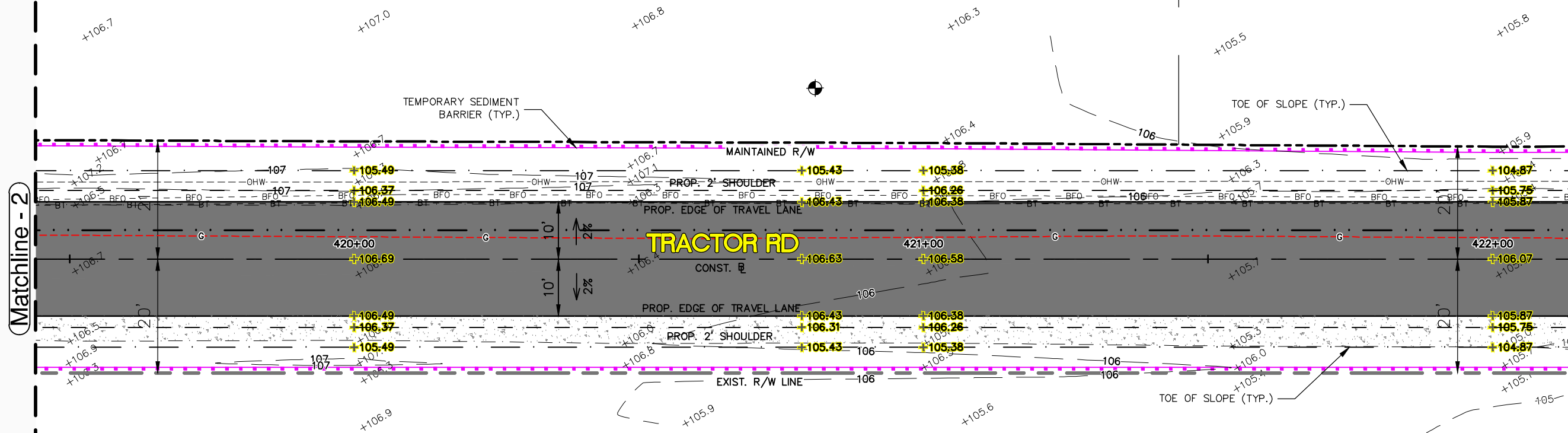
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PROJECT NO. 11048 REV. 0

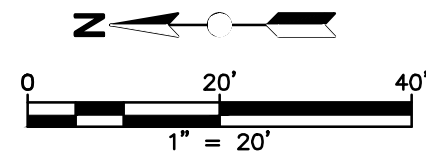
SHEET 11 OF 59

VARELA CONST CORP
7964 NW 163 TERR
MIAMI LAKES, FL 33016
C103529A0000700000

VARELA CONST CORP
7964 NW 163 TERR
MIAMI LAKES, FL 33016
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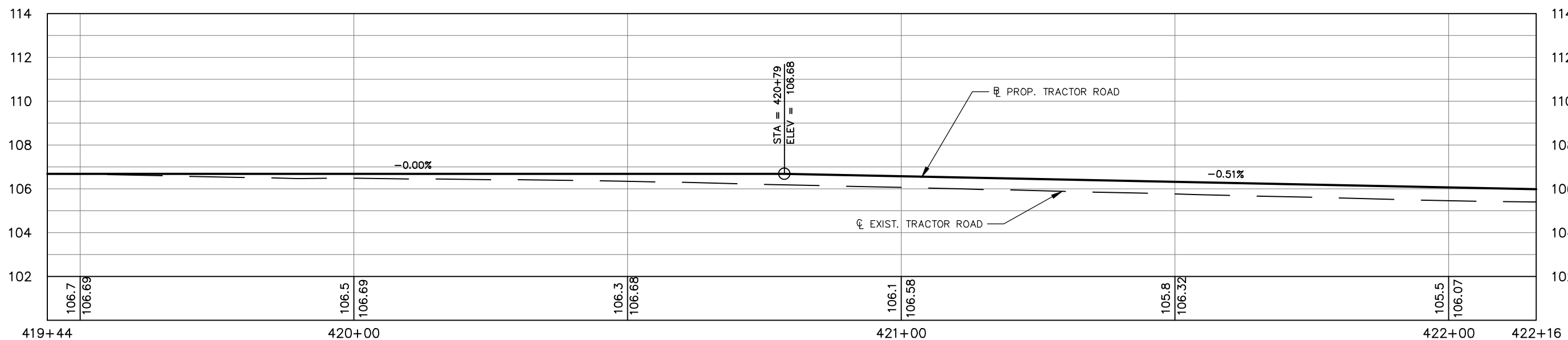


CRACKER HAMMOCK LLC
2841 LAKEVIEW DRIVE
SEBRING, FL 33870
C093529A0003000000



See Sheet 11

See Sheet 13



REVISIONS		STATUS
DATE	DESCRIPTION	
		FOR BID

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

DESIGNED BY: KEITH BAKER, E.I.
DRAWN BY: DOUG NIETUBICZ
CHECKED BY: ELIUS F. NORTELUS, P.E.
IN CHARGE: ELIUS F. NORTELUS, P.E.
DATE: 3/7/2016

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



TRACTOR ROAD IMPROVEMENTS
PLAN & PROFILE

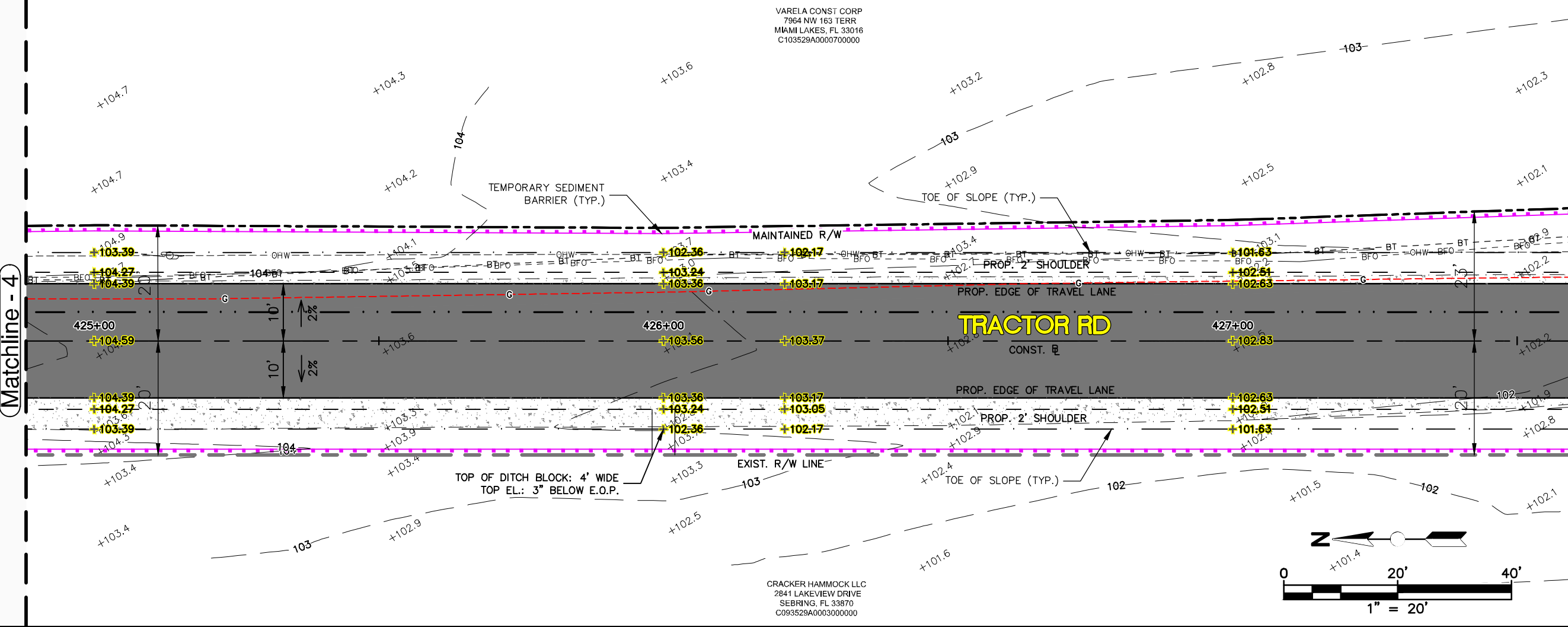
SCALE: HORIZ. 1"=20' VERT. 1"=5'	
PROJECT NO. 11048	REV. 0
SHEET 12 OF 59	

VARELA CONST CORP
7964 NW 163 TERR
MIAMI LAKES, FL 33016
C103529A000700000

CRACKER HAMMOCK LLC
2841 LAKEVIEW DRIVE
SEBRING, FL 33870
C093529A0003000000

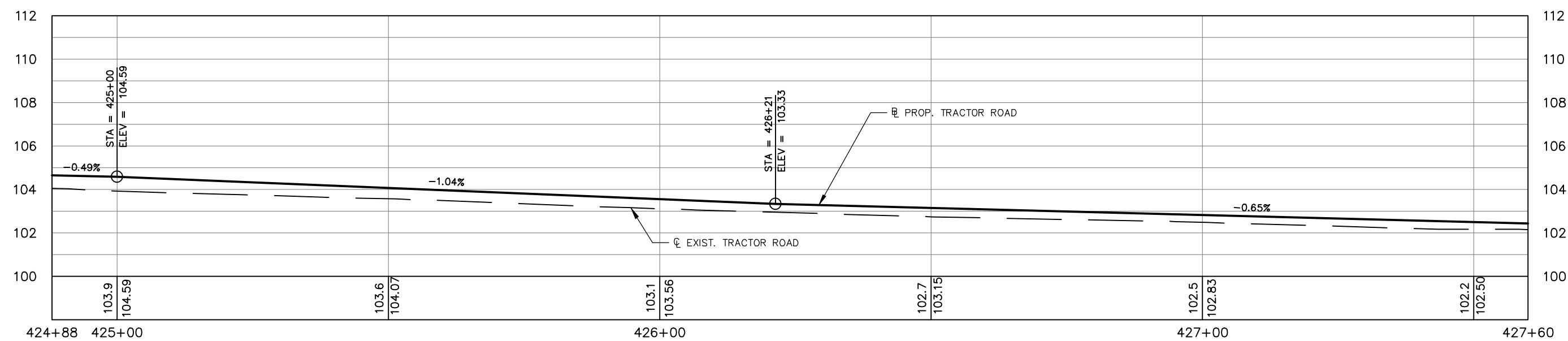
Matchline - 4

Matchline - 5



See Sheet 13

See Sheet 15



REVISIONS		STATUS
DATE	DESCRIPTION	
		FOR BID

DESIGNED BY:
KEITH BAKER, E.I.

DRAWN BY:
DOUG NIETUBICZ

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

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DATE:
3/7/2016

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

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

DATE:



TRACTOR ROAD IMPROVEMENTS

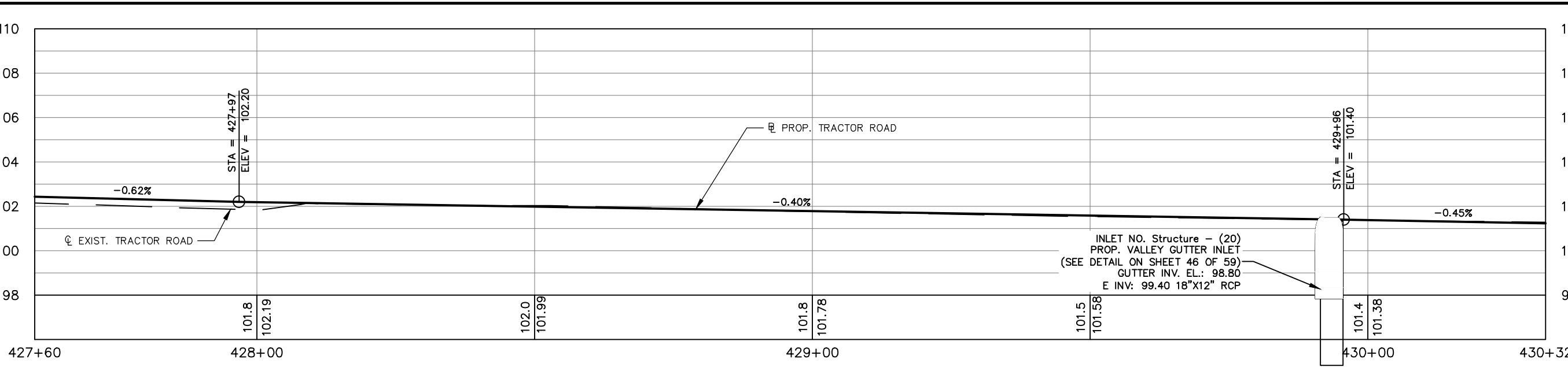
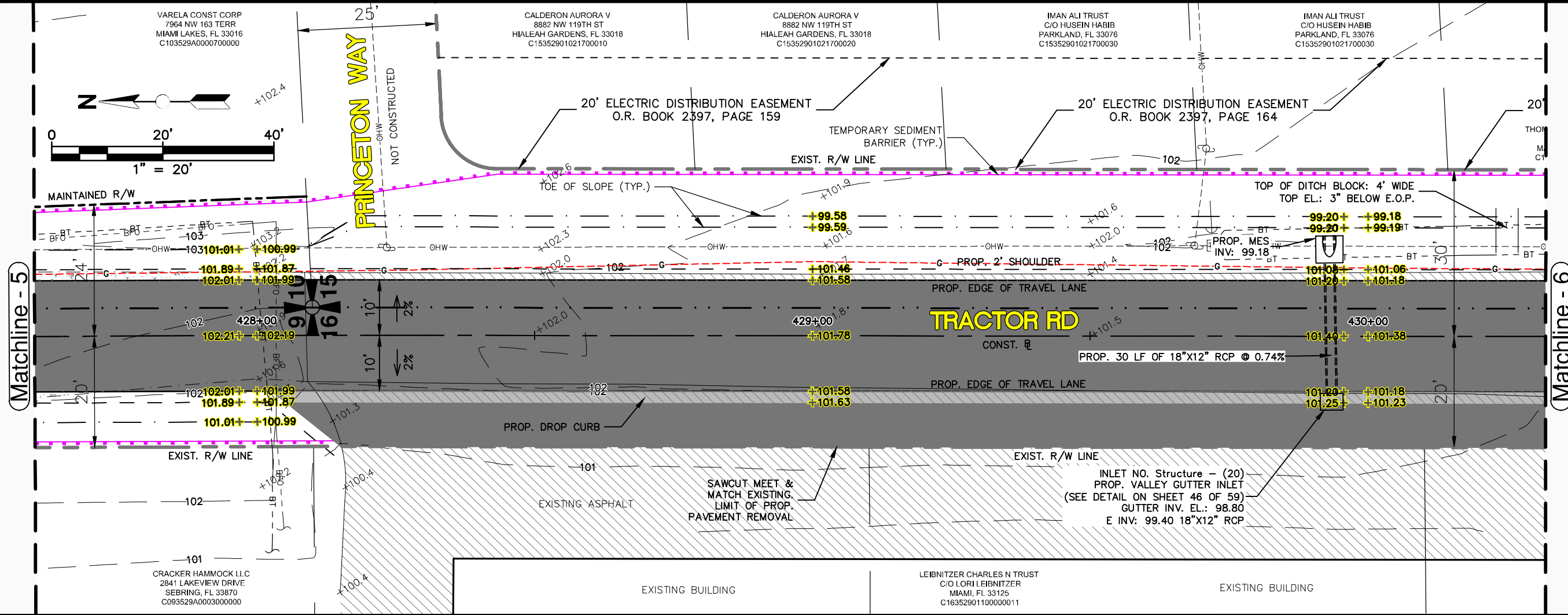
PLAN & PROFILE

SCALE:
HORIZ. 1"=20'
VERT. 1"=5'

PROJECT NO.
11048

REV.
0

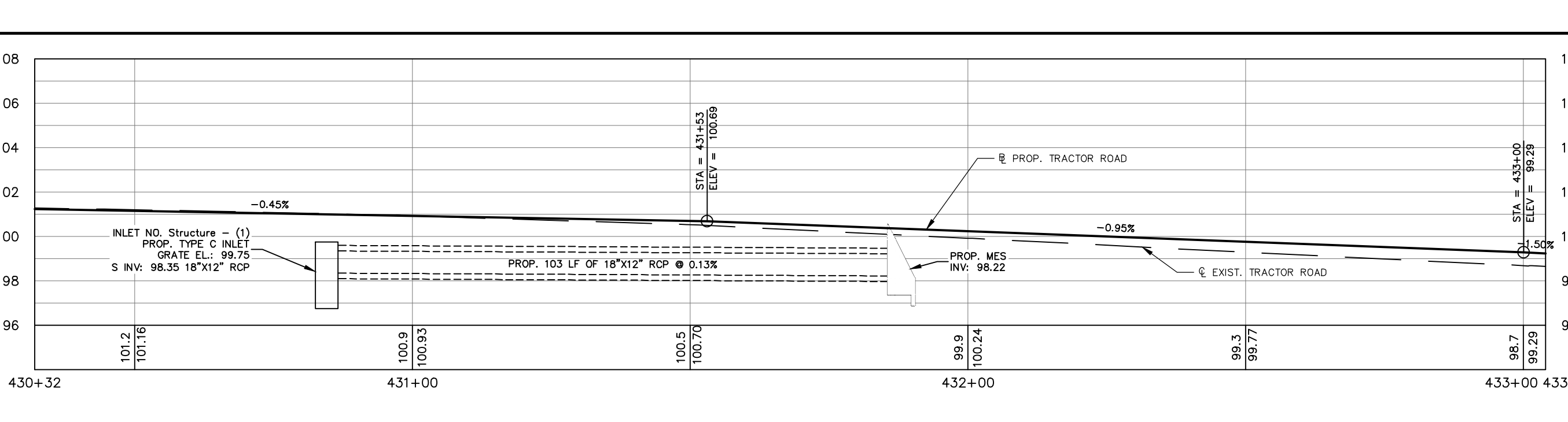
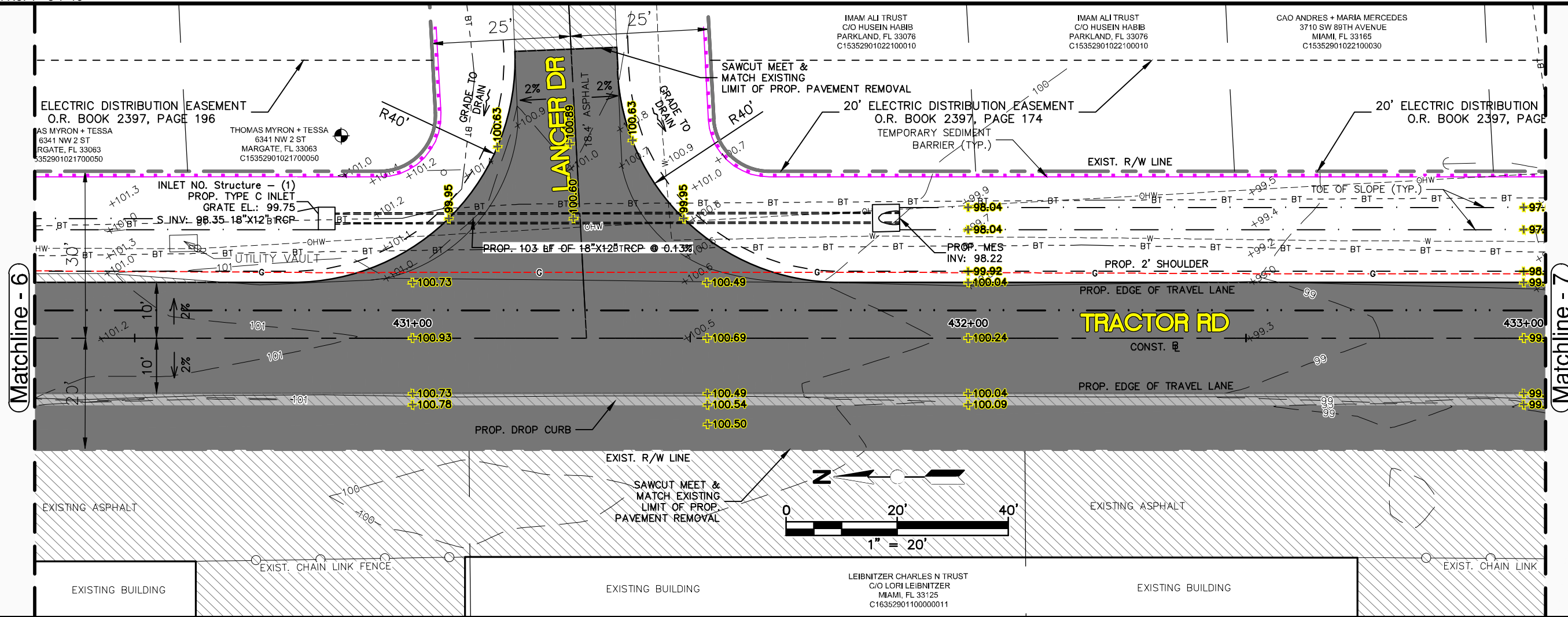
SHEET 14 OF 59



See Sheet 14

See Sheet 16

REVISIONS			STATUS	DESIGNED BY: KEITH BAKER, E.I.	HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870		TRACTOR ROAD IMPROVEMENTS PLAN & PROFILE	SCALE:	
DATE	BY	DESCRIPTION						HORIZ. 1"=20'	VERT. 1"=5'
			FOR BID	DRAWN BY: DOUG NIETUBICZ	APPROVED BY: ELIUS F. NORTELUS, P.E. FLORIDA REGISTRATION NO.: 70092		TRACTOR ROAD IMPROVEMENTS PLAN & PROFILE	PROJECT NO.	REV.
				CHECKED BY: ELIUS F. NORTELUS, P.E.				11048	0
			IN CHARGE: ELIUS F. NORTELUS, P.E.	DATE: 3/7/2016	DATE:			SHEET 15 OF 59	

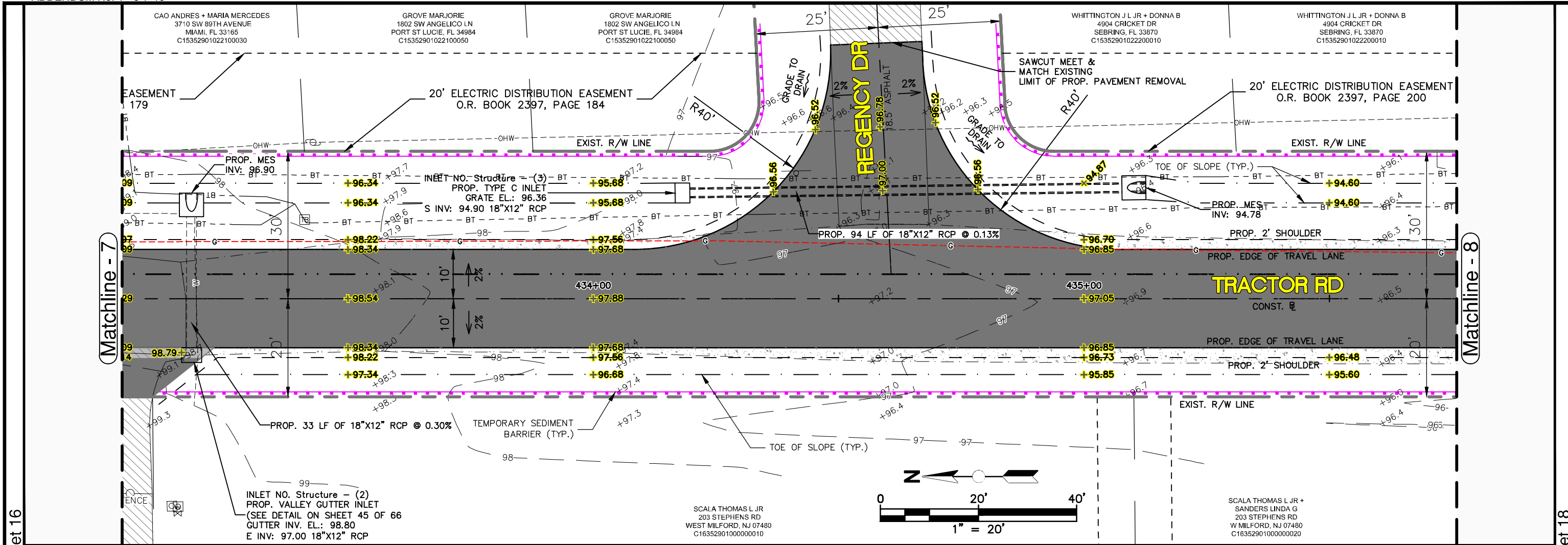


See Sheet 15

See Sheet 17

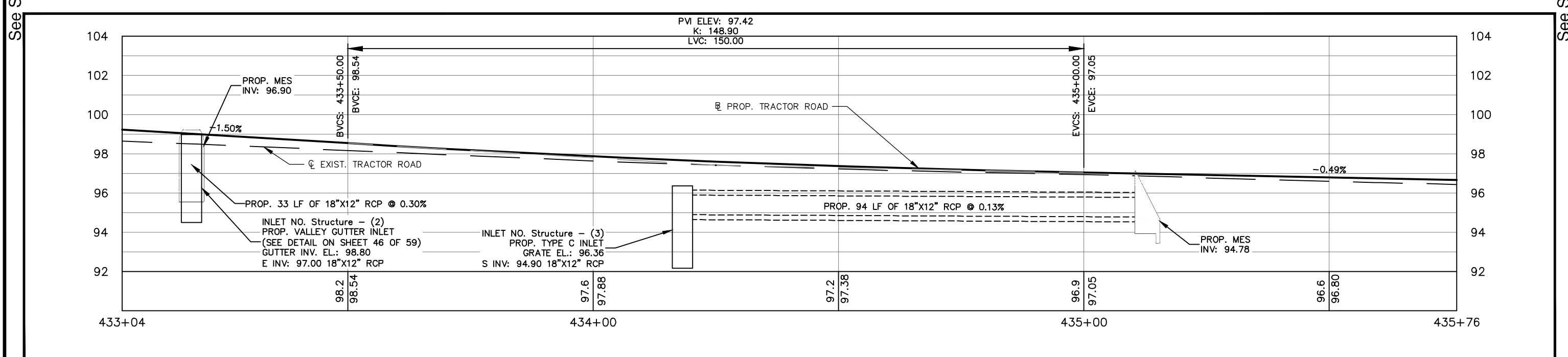
REVISIONS DATE BY DESCRIPTION			STATUS <div style="font-size: 2em; color: red; font-weight: bold;">FOR BID</div>		DESIGNED BY: KEITH BAKER, EI. DRAWN BY: DOUG NIETUBICZ CHECKED BY: ELIUS F. NORTELUS, P.E. IN CHARGE: ELIUS F. NORTELUS, P.E. DATE: 3/7/2016		HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870 APPROVED BY: ELIUS F. NORTELUS, P.E. FLORIDA REGISTRATION NO.: 70092				TRACTOR ROAD IMPROVEMENTS PLAN & PROFILE		SCALE: HORIZ. 1"=20' VERT. 1"=5' PROJECT NO. 11048 REV. 0 SHEET 16 OF 59	
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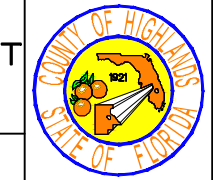
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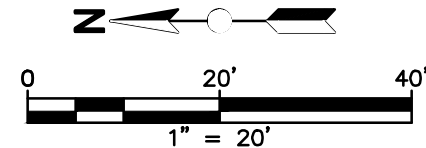
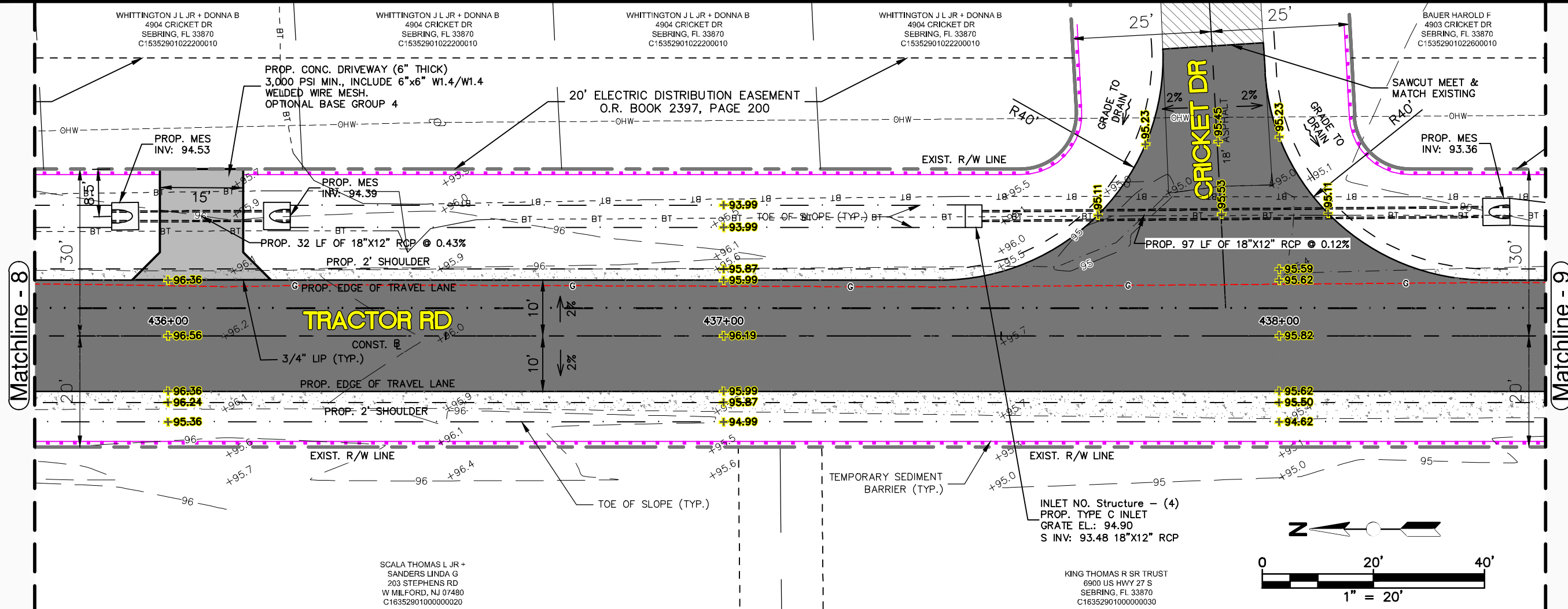
See Sheet 16

See Sheet 18



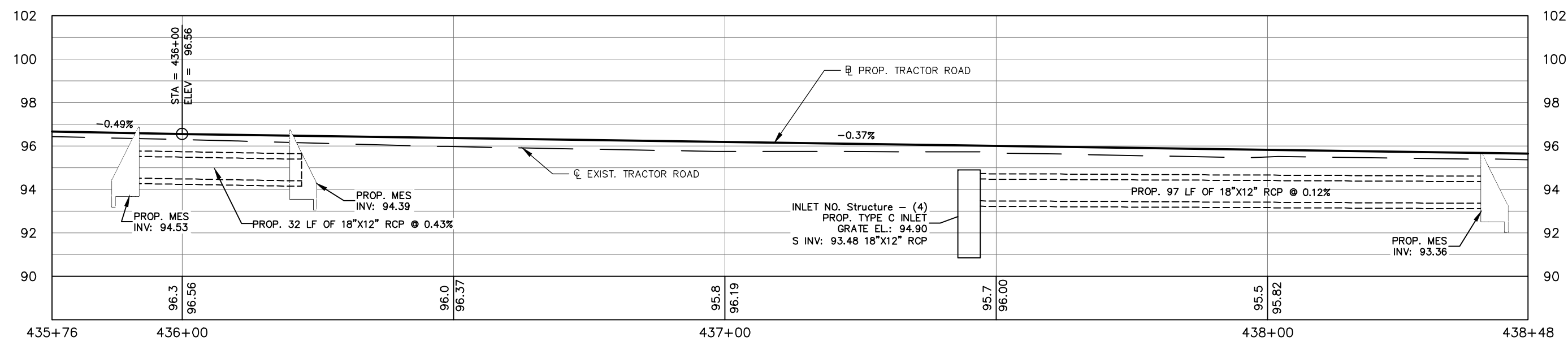
REVISIONS			STATUS		DESIGNED BY:		HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870		SCALE:		
DATE	BY	DESCRIPTION	FOR BID		KEITH BAKER, E.I.	DOUG NIETUBICZ			HORIZ. 1"=20'	VERT. 1"=5'	
										PROJECT NO. 11048	REV. 0
APPROVED BY: ELIUS F. NORTELUS, P.E. DATE: 3/7/2016										SHEET 17 OF 59	

G:\PROJECTS\2011\11048 Tractor Road Pavement Reconstruct\All Drawings\Plan and Profile Tractor Road.dwg, 17 PP (8), Nietubicz, Douglas Colors As Black Except Gray Colors.ctb



See Sheet 17

See Sheet 19



REVISIONS		
DATE	BY	DESCRIPTION

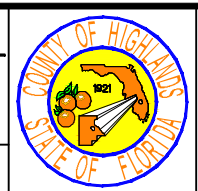
STATUS
FOR BID

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

DESIGNED BY: KEITH BAKER, E.I.
DRAWN BY: DOUG NIETUBICZ
CHECKED BY: ELIUS F. NORTELUS, P.E.
IN CHARGE: ELIUS F. NORTELUS, P.E.
DATE: 3/7/2016

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

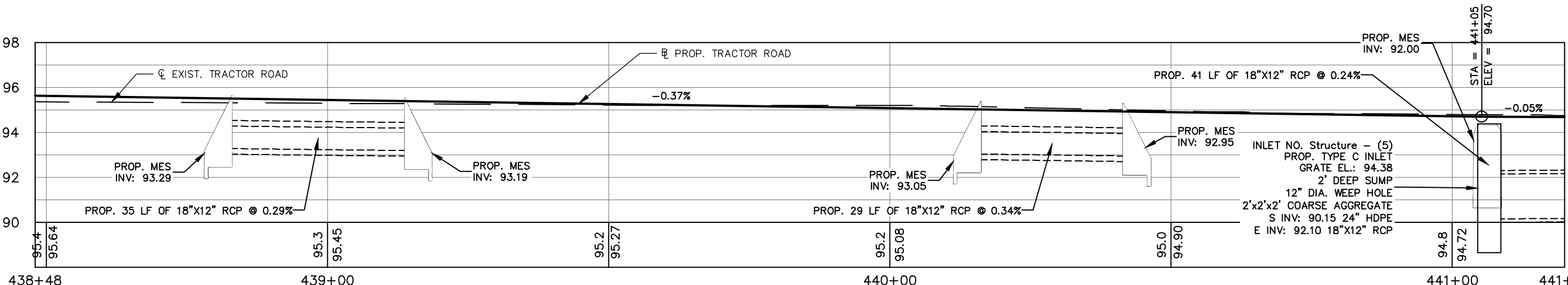
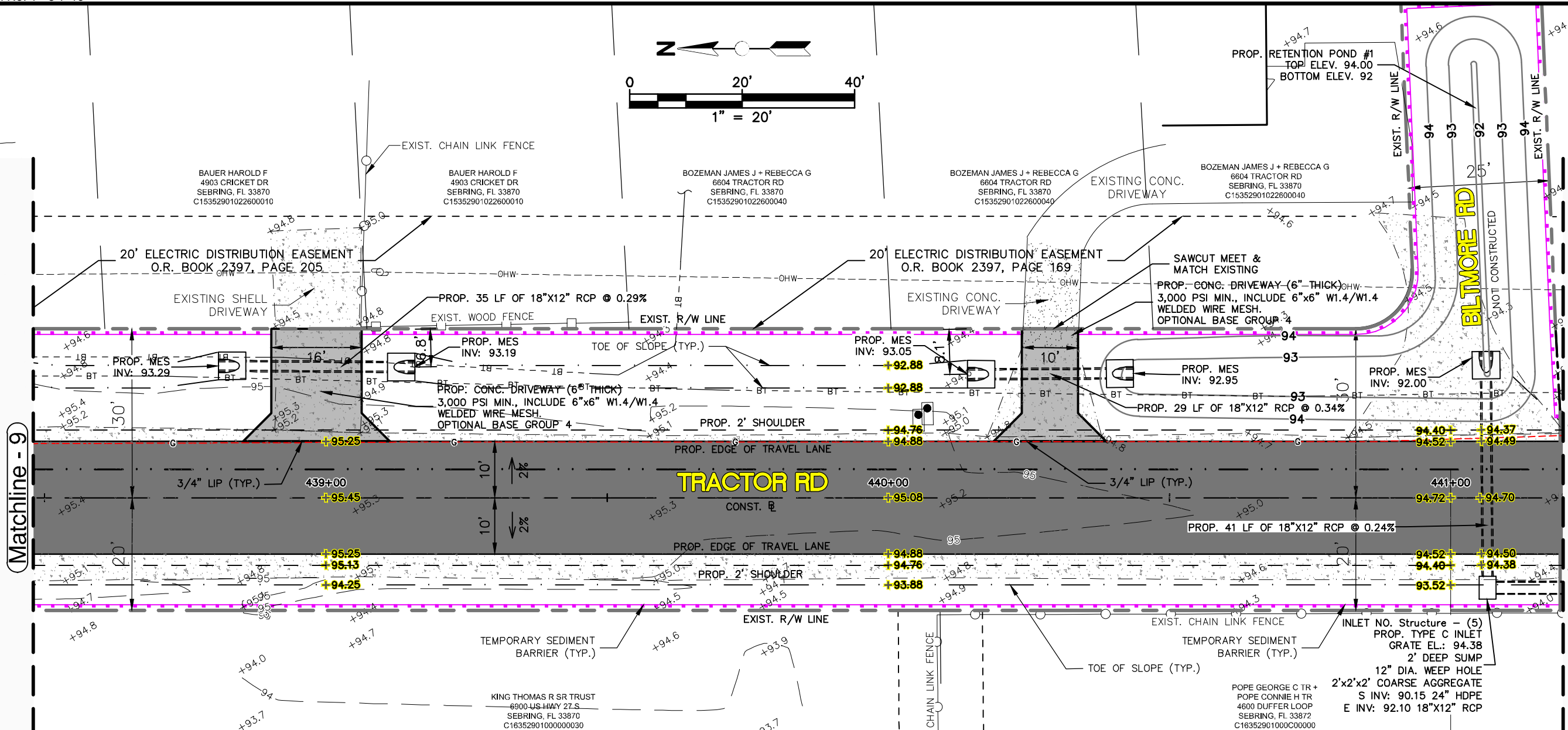
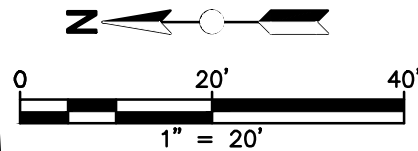
DATE: _____



**TRACTOR ROAD
IMPROVEMENTS**

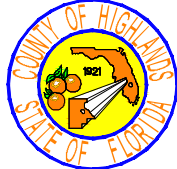
PLAN & PROFILE

SCALE: HORIZ. 1"=20' VERT. 1"=5'	
PROJECT NO. 11048	REV. 0
SHEET 18 OF 59	



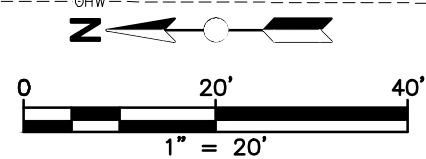
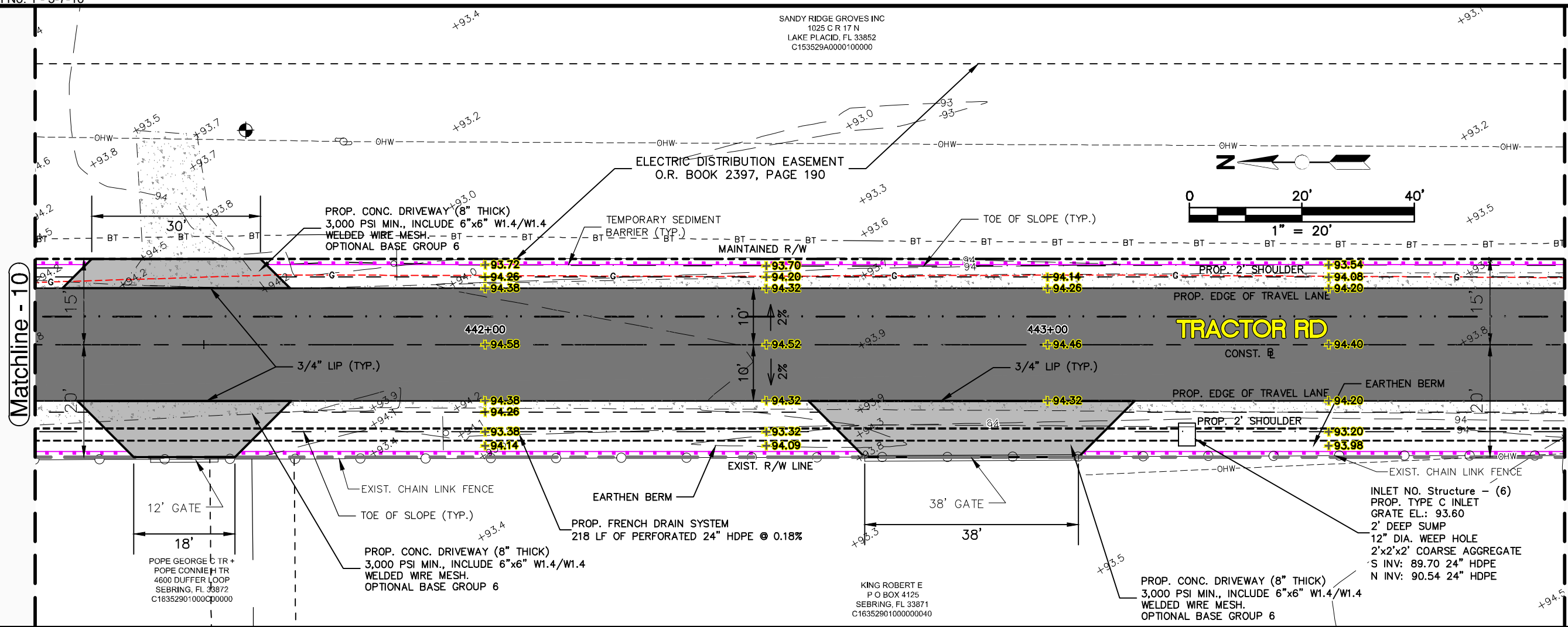
See Sheet 18

See Sheet 20

REVISIONS			STATUS	DESIGNED BY: KEITH BAKER, E.I.	DRAWN BY: DOUG NIETUBICZ	CHECKED BY: ELIUS F. NORTELUS, P.E.	IN CHARGE: ELIUS F. NORTELUS, P.E.	DATE: 3/7/2016	APPROVED BY: ELIUS F. NORTELUS, P.E. FLORIDA REGISTRATION NO.: 70092	DATE:	SCALE: HORIZ. 1"=20' VERT. 1"=5'	PROJECT NO. 11048	REV. 0	
DATE	BY	DESCRIPTION												
			FOR BID	HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870							TRACTOR ROAD IMPROVEMENTS PLAN & PROFILE		SHEET 19 OF 59	

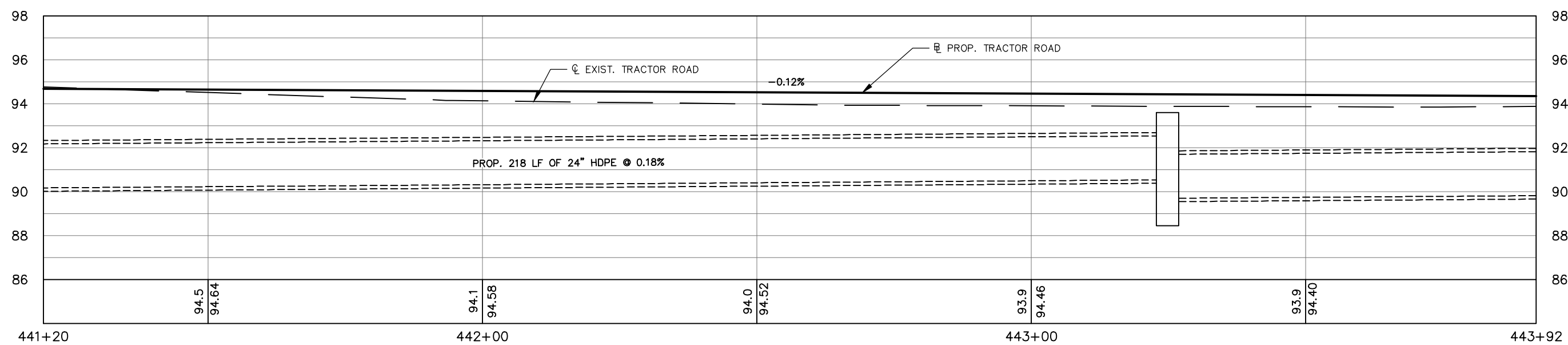
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SANDY RIDGE GROVES INC
1025 C R 17 N
LAKE PLACID, FL 33852
C153529A0000100000



See Sheet 19

See Sheet 21



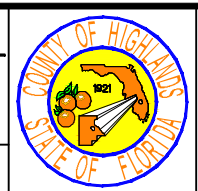
REVISIONS			STATUS
DATE	BY	DESCRIPTION	
			FOR BID

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

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

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

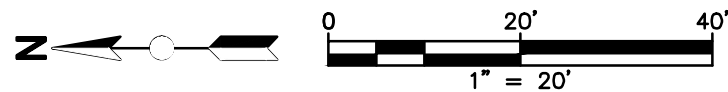
DATE: 3/7/2016



TRACTOR ROAD IMPROVEMENTS
PLAN & PROFILE

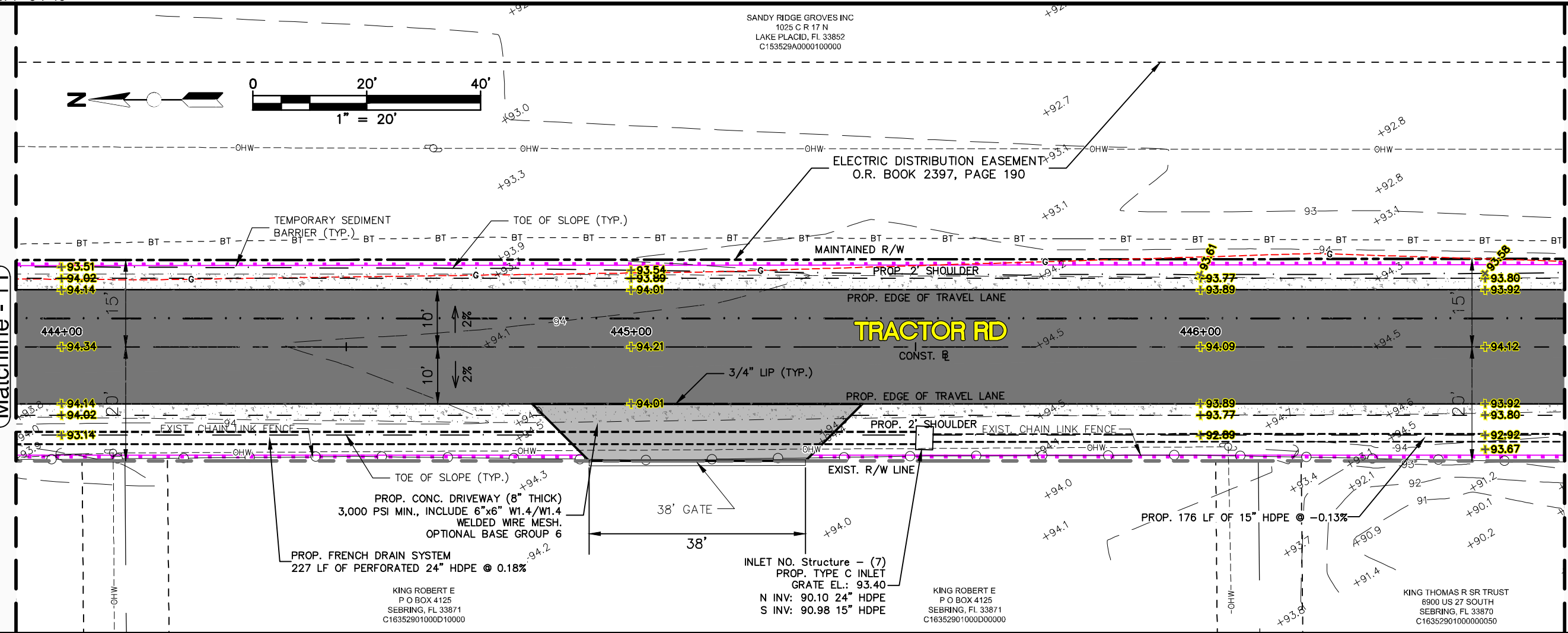
SCALE: HORIZ. 1"=20' VERT. 1"=5'	
PROJECT NO. 11048	REV. 0
SHEET 20 OF 59	

SANDY RIDGE GROVES INC
1025 C R 17 N
LAKE PLACID, FL 33852
C153529A0000100000



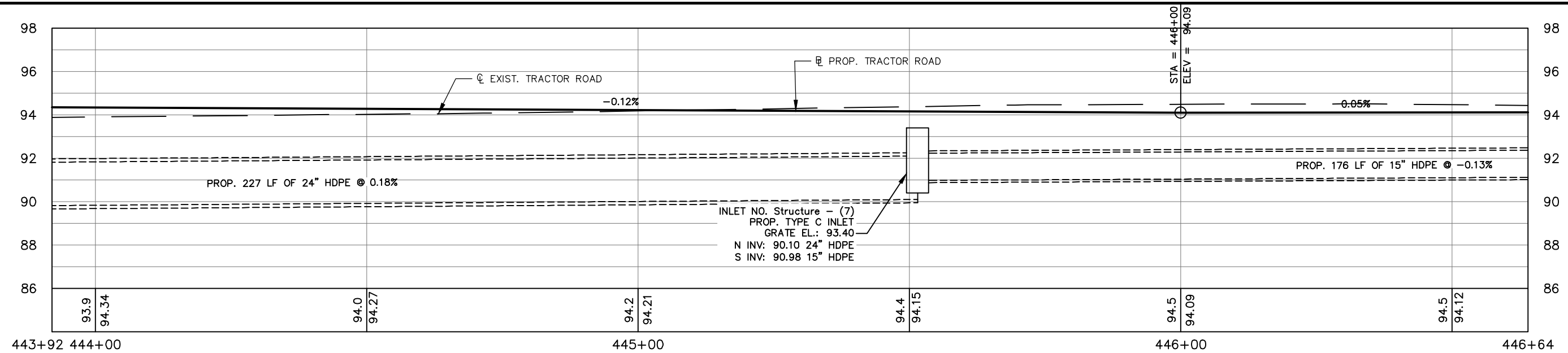
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Matchline - 12



See Sheet 20

See Sheet 22



REVISIONS		STATUS
DATE	DESCRIPTION	
		FOR BID

DESIGNED BY:
KEITH BAKER, E.I.
DRAWN BY:
DOUG NIETUBICZ
CHECKED BY:
ELIUS F. NORTELUS, P.E.
IN CHARGE:
ELIUS F. NORTELUS, P.E.
DATE:
3/7/2016

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

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

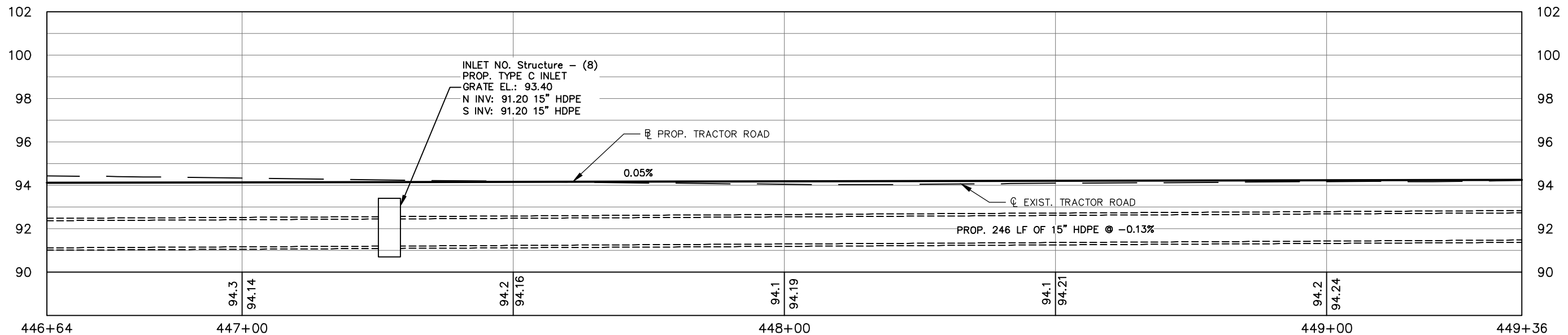
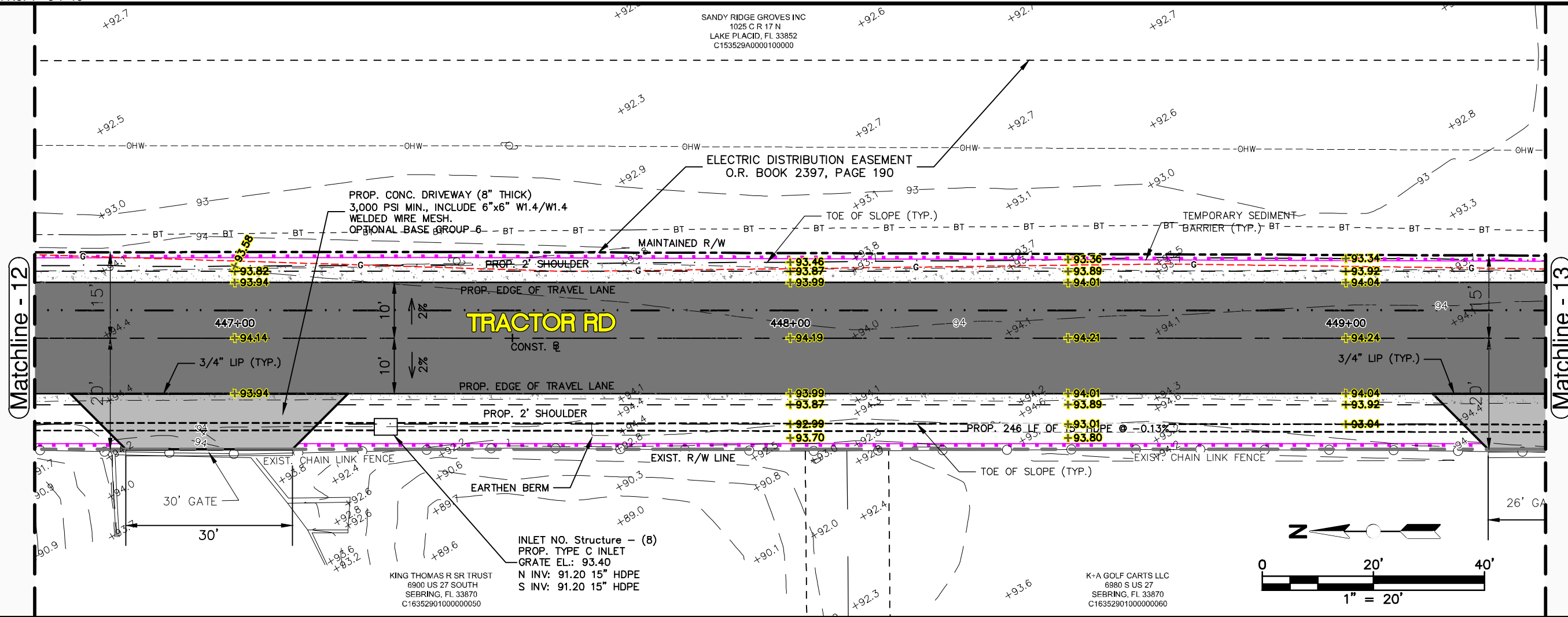


**TRACTOR ROAD
IMPROVEMENTS**
PLAN & PROFILE

SCALE:
HORIZ. 1"=20'
VERT. 1"=5'

PROJECT NO. 11048 REV. 0

SHEET 21 OF 59



See Sheet 21

See Sheet 23

REVISIONS		STATUS
DATE	DESCRIPTION	
		FOR BID

DESIGNED BY:
KEITH BAKER, E.I.

DRAWN BY:
DOUG NIETUBICZ

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

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

DATE:
3/7/2016

**HIGHLANDS COUNTY
ENGINEERING DEPARTMENT**

505 S. COMMERCE AVENUE
SEBRING, FLORIDA 33870

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

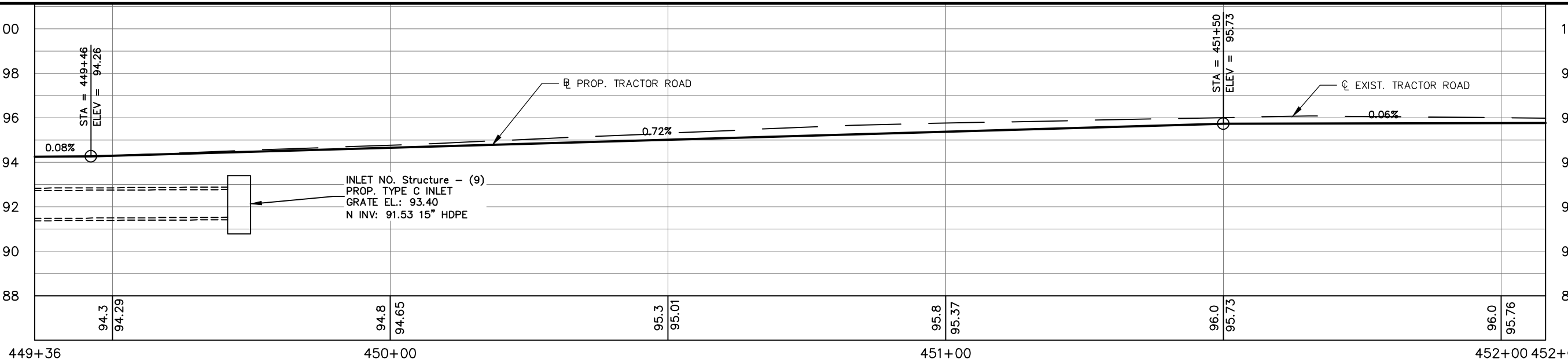
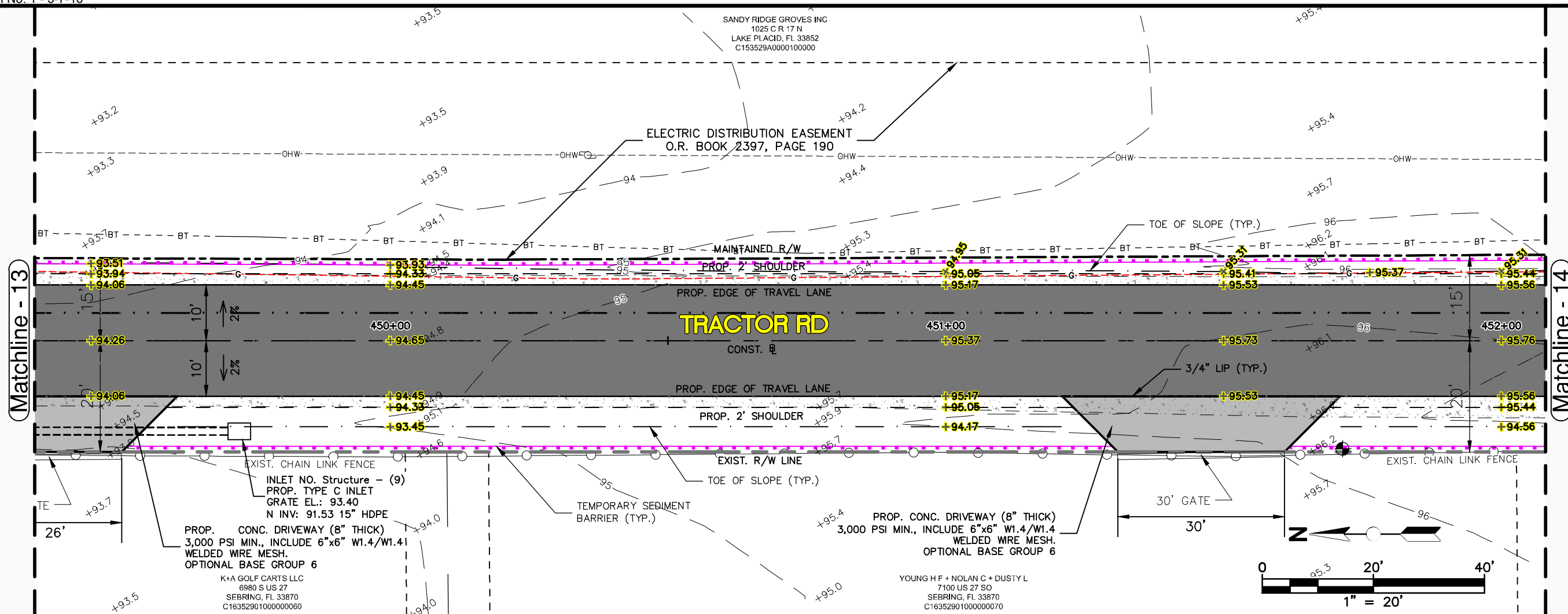
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**TRACTOR ROAD
IMPROVEMENTS**

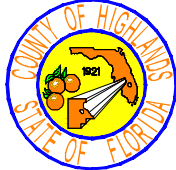
PLAN & PROFILE

SCALE: HORIZ. 1"=20' VERT. 1"=5'	
PROJECT NO. 11048	REV. 0
SHEET 22 OF 59	



See Sheet 22

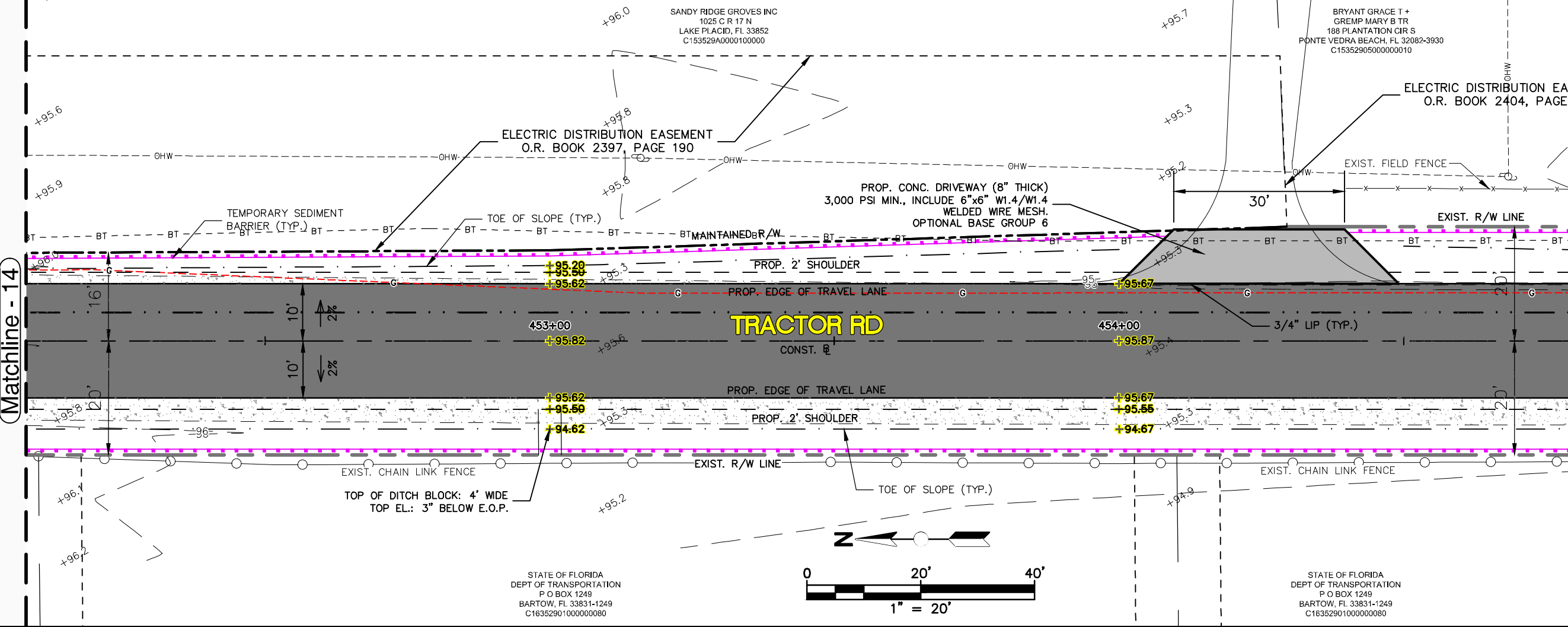
See Sheet 24

REVISIONS			STATUS	DESIGNED BY: KEITH BAKER, E.I.	DRAWN BY: DOUG NIETUBICZ	CHECKED BY: ELIUS F. NORTELUS, P.E.	IN CHARGE: ELIUS F. NORTELUS, P.E.	DATE: 3/7/2016	APPROVED BY: ELIUS F. NORTELUS, P.E. FLORIDA REGISTRATION NO.: 70092	DATE:	SCALE: HORIZ. 1"=20' VERT. 1"=5'	PROJECT NO. 11048	REV. 0	
DATE	BY	DESCRIPTION												
			FOR BID	HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870							TRACTOR ROAD IMPROVEMENTS PLAN & PROFILE		SHEET 23 OF 59	

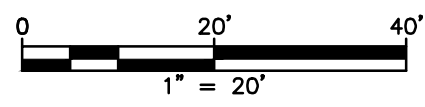
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Matchline - 14

Matchline - 15



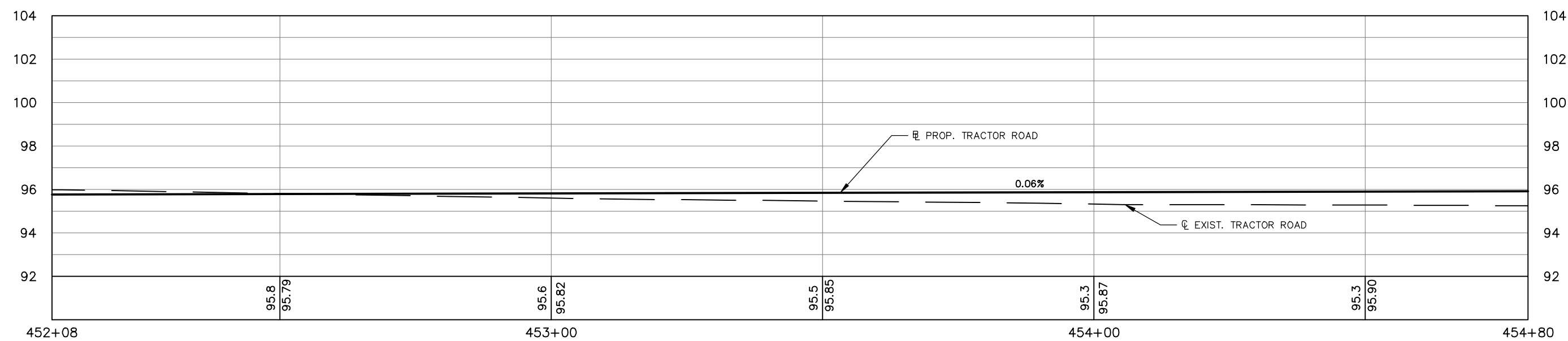
STATE OF FLORIDA
DEPT OF TRANSPORTATION
P O BOX 1249
BARTOW, FL 33831-1249
C16352901000000080



STATE OF FLORIDA
DEPT OF TRANSPORTATION
P O BOX 1249
BARTOW, FL 33831-1249
C16352901000000080

See Sheet 23

See Sheet 25



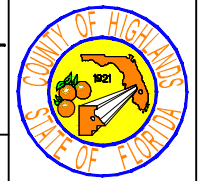
REVISIONS		STATUS
DATE	DESCRIPTION	
		FOR BID

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

DESIGNED BY: KEITH BAKER, E.I.
DRAWN BY: DOUG NIETUBICZ
CHECKED BY: ELIUS F. NORTELUS, P.E.
IN CHARGE: ELIUS F. NORTELUS, P.E.
DATE: 3/7/2016

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

DATE: _____



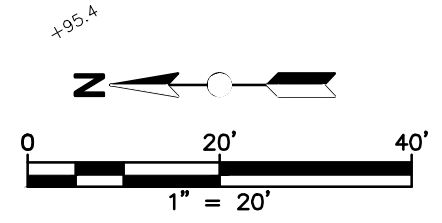
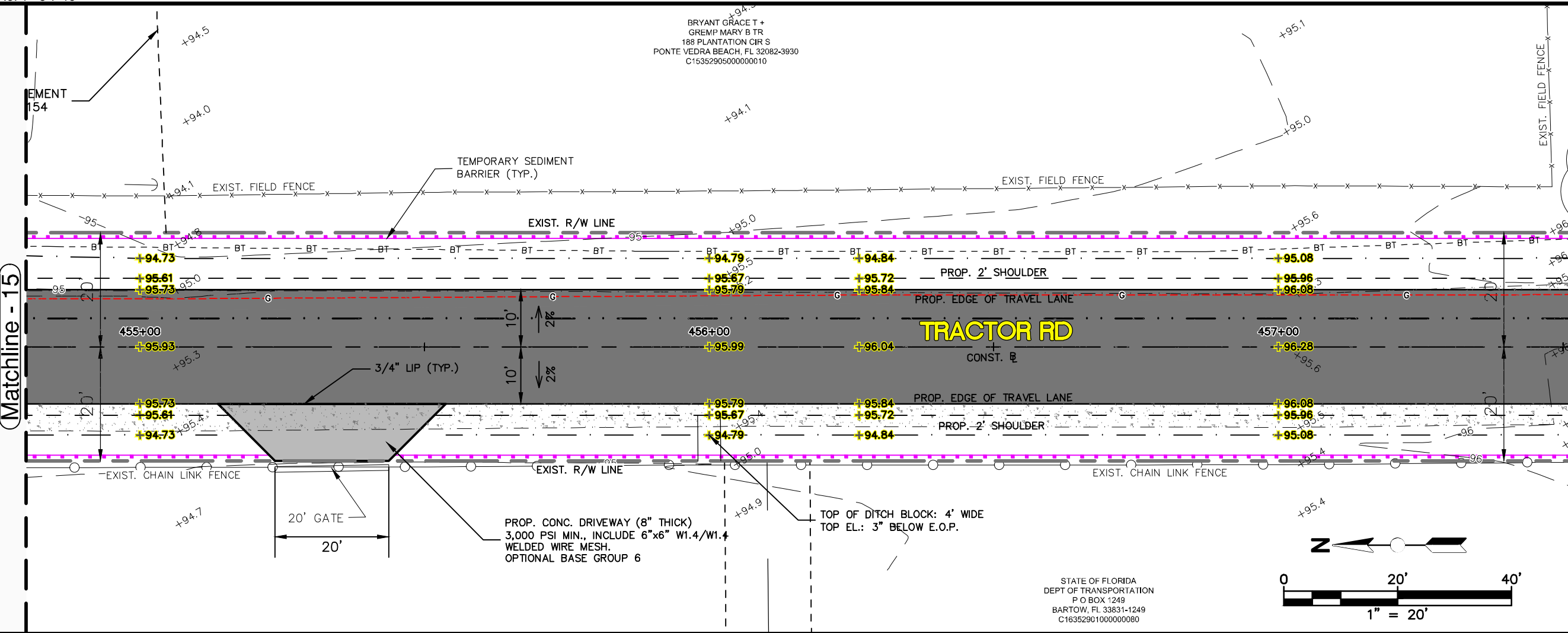
**TRACTOR ROAD
IMPROVEMENTS
PLAN & PROFILE**

SCALE: HORIZ. 1"=20' VERT. 1"=5'	
PROJECT NO. 11048	REV. 0
SHEET 24 OF 59	

BRYANT GRACE T +
GREMP MARY B TR
188 PLANTATION CIR S
PONTE VEDRA BEACH, FL 32082-3930
C15352905000000010

Matchline - 15

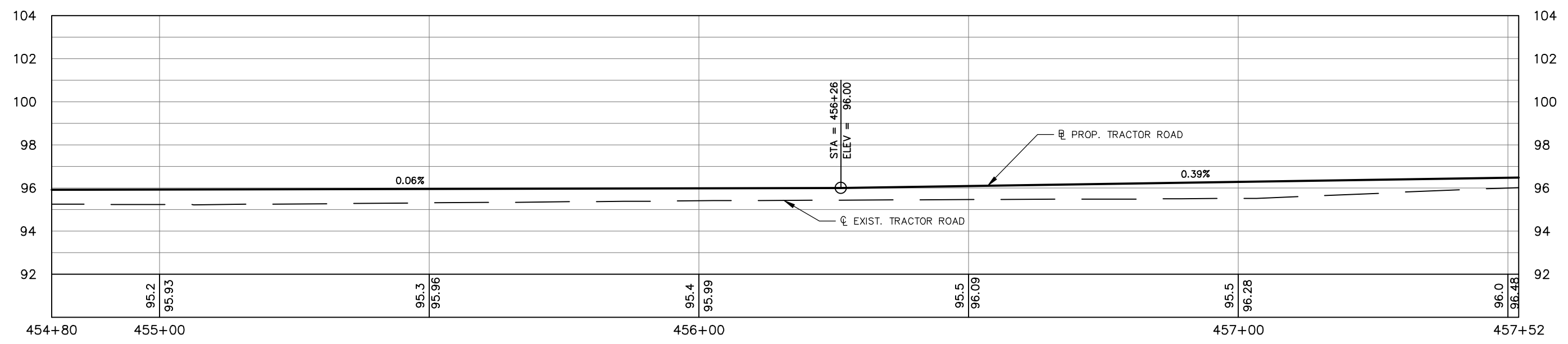
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STATE OF FLORIDA
DEPT OF TRANSPORTATION
P O BOX 1249
BARTOW, FL 33831-1249
C163529010000000080

See Sheet 24

See Sheet 26



REVISIONS		
DATE	BY	DESCRIPTION

STATUS

FOR BID

DESIGNED BY:
KEITH BAKER, E.I.

DRAWN BY:
DOUG NIETUBICZ

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

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

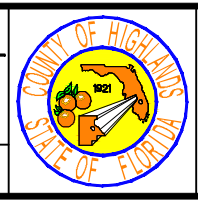
DATE:
3/7/2016

**HIGHLANDS COUNTY
ENGINEERING DEPARTMENT**

505 S. COMMERCE AVENUE
SEBRING, FLORIDA 33870

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

DATE:



**TRACTOR ROAD
IMPROVEMENTS**

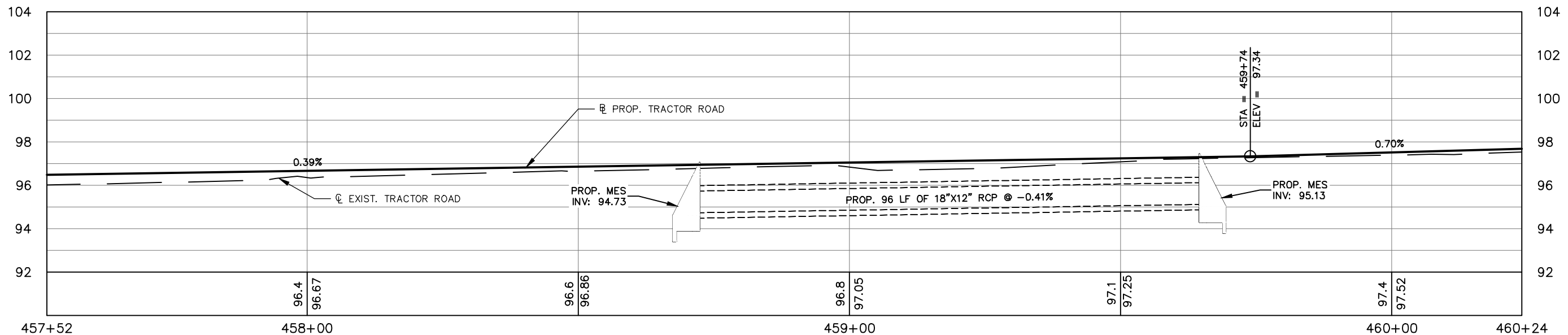
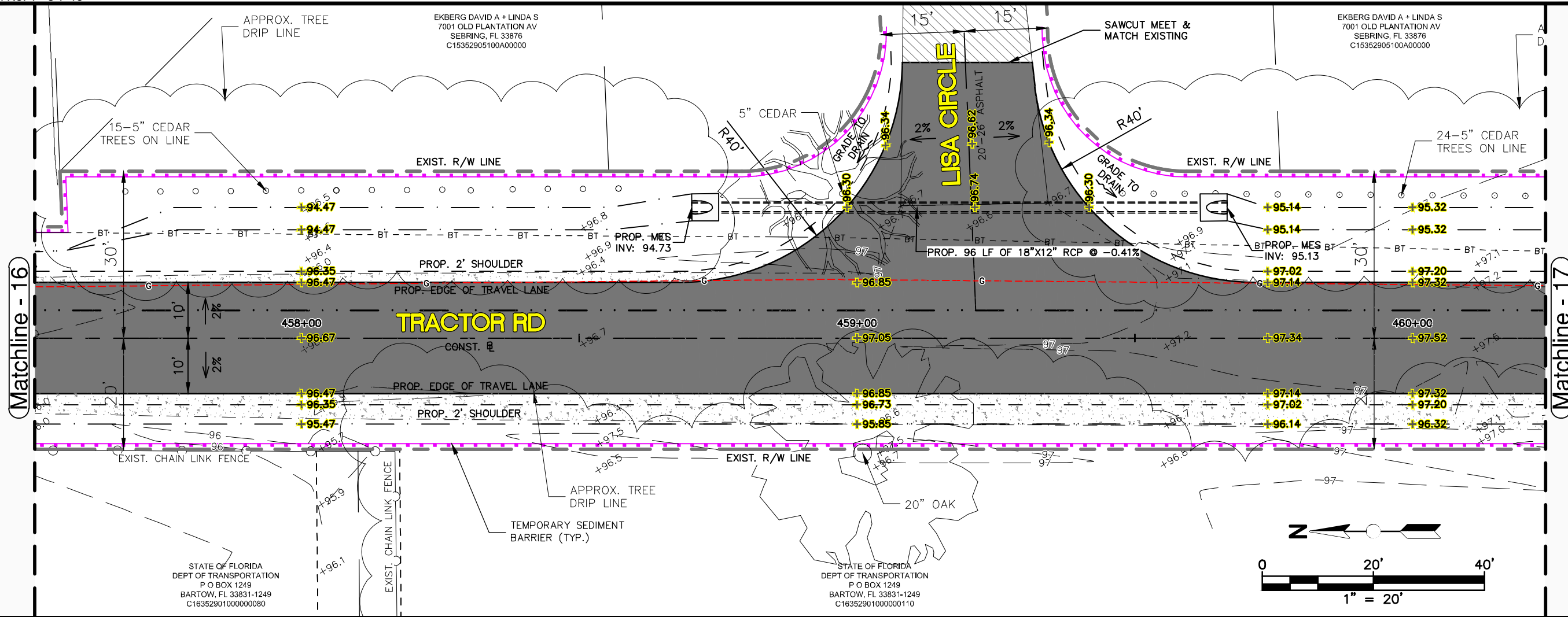
PLAN & PROFILE

SCALE:
HORIZ. 1"=20'
VERT. 1"=5'

PROJECT NO.
11048

REV.
0

SHEET 25 OF 59



See Sheet 25

See Sheet 27

REVISIONS		
DATE	BY	DESCRIPTION

STATUS
FOR BID

DESIGNED BY:
KEITH BAKER, E.I.

DRAWN BY:
DOUG NIETUBICZ

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

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

DATE:
3/7/2016

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

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

DATE:



**TRACTOR ROAD
IMPROVEMENTS**

PLAN & PROFILE

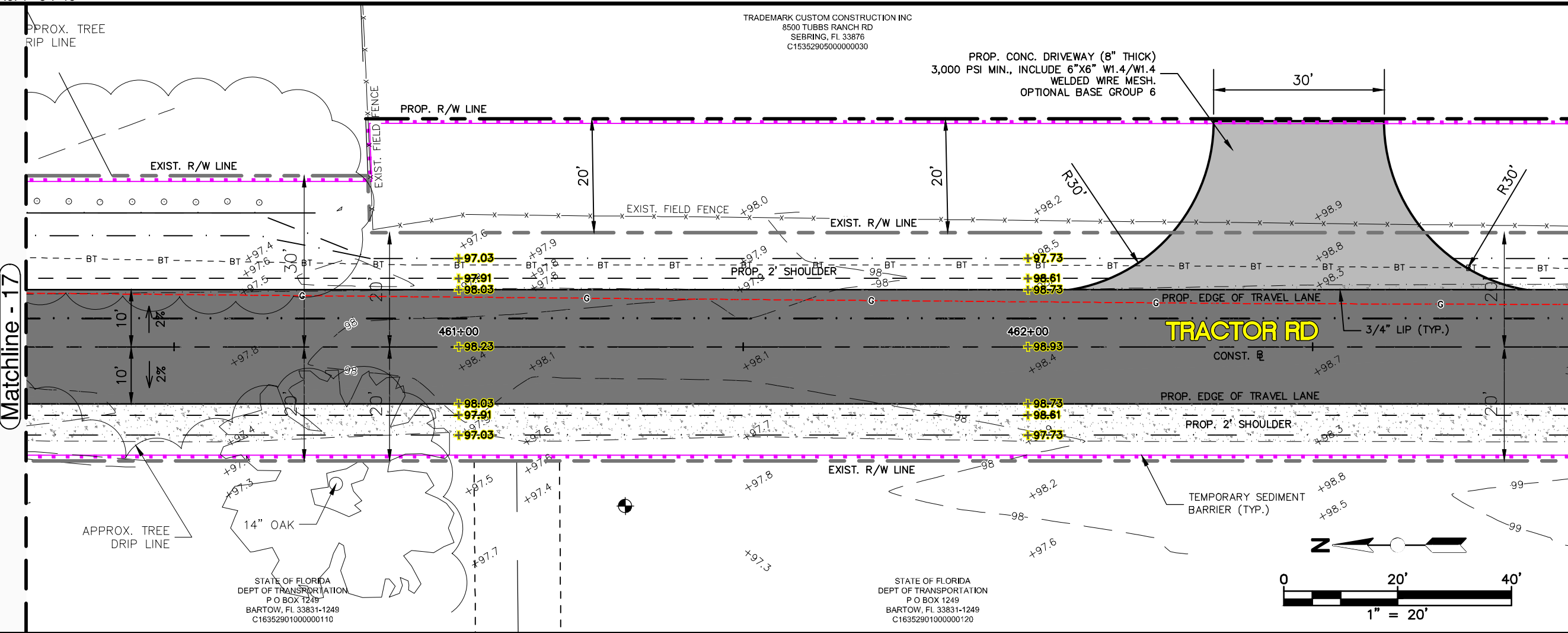
SCALE: HORIZ. 1"=20' VERT. 1"=5'	
PROJECT NO. 11048	REV. 0
SHEET 26 OF 59	

TRADEMARK CUSTOM CONSTRUCTION INC
8500 TUBBS RANCH RD
SEBRING, FL 33876
C1535290500000030

PROP. CONC. DRIVEWAY (8" THICK)
3,000 PSI MIN., INCLUDE 6"x6" W1.4/W1.4
WELDED WIRE MESH.
OPTIONAL BASE GROUP 6

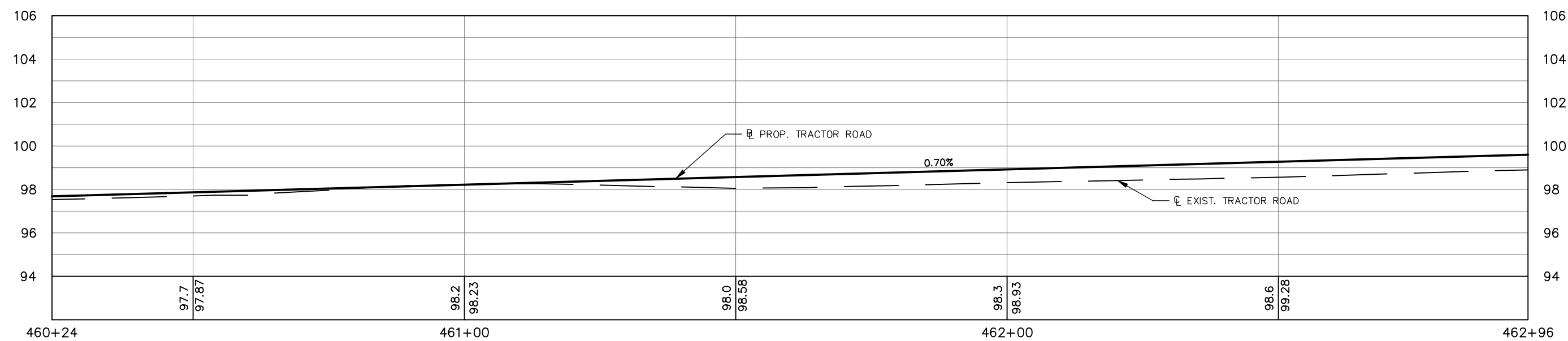
Matchline - 17

Matchline - 18



See Sheet 26

See Sheet 28



REVISIONS		STATUS
DATE	DESCRIPTION	
		FOR BID

DESIGNED BY:
KEITH BAKER, E.I.

DRAWN BY:
DOUG NIETUBICZ

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

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

DATE:
3/7/2016

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

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

DATE:



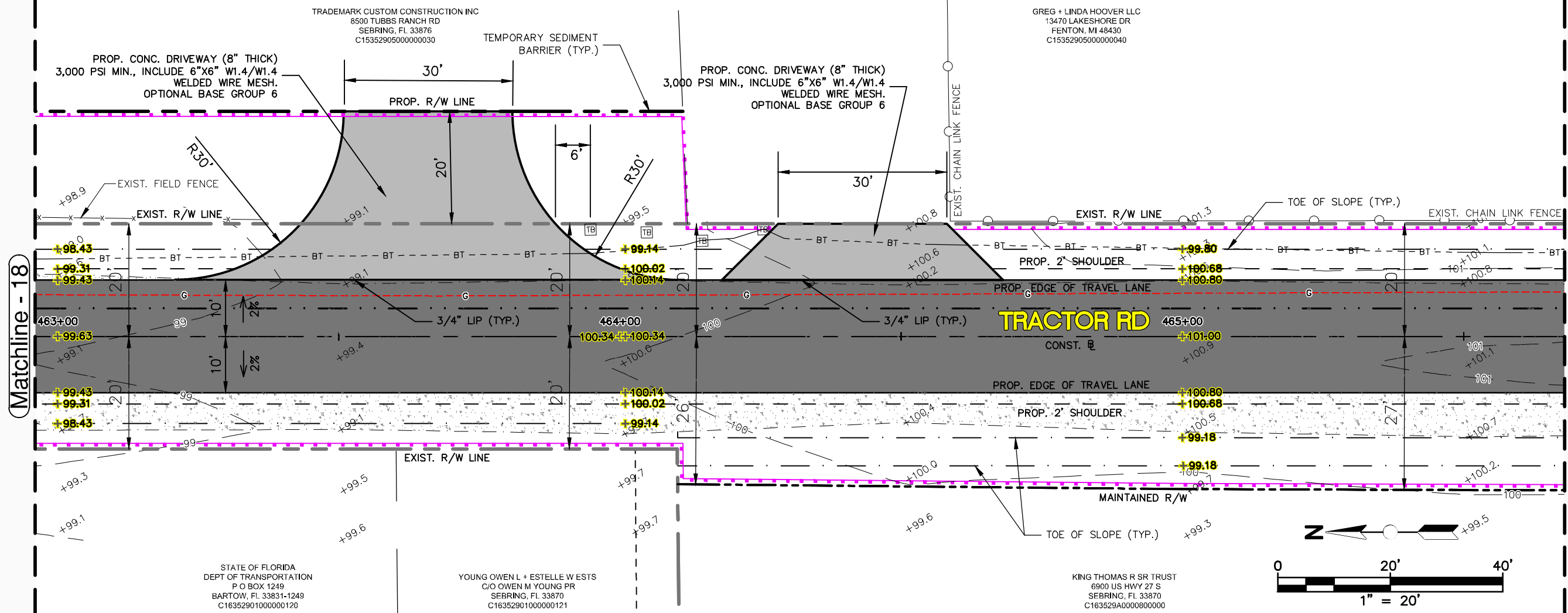
**TRACTOR ROAD
IMPROVEMENTS**
PLAN & PROFILE

SCALE:
HORIZ. 1"=20'
VERT. 1"=5'

PROJECT NO.
11048

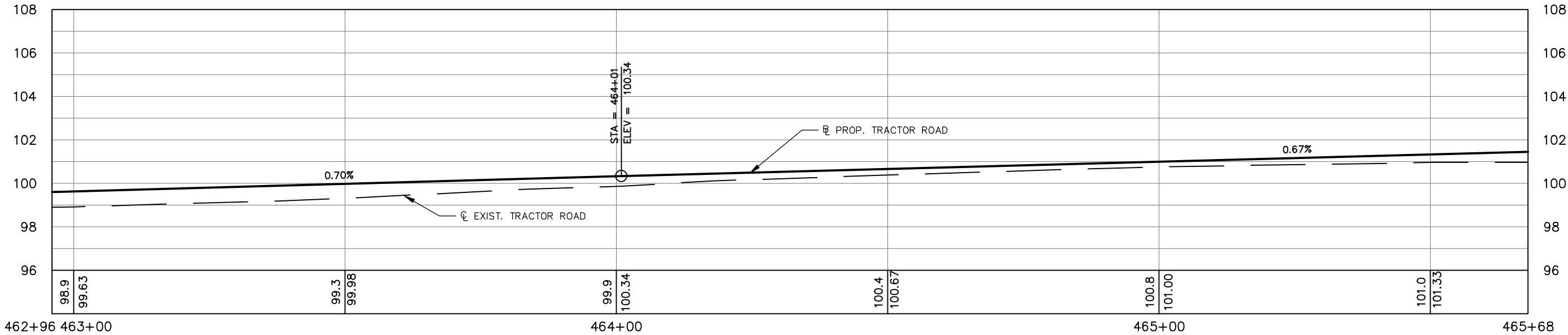
REV.
0

SHEET 27 OF 59



See Sheet 27

See Sheet 29



REVISIONS		
DATE	BY	DESCRIPTION

STATUS
FOR BID

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

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

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

DATE: 3/7/2016

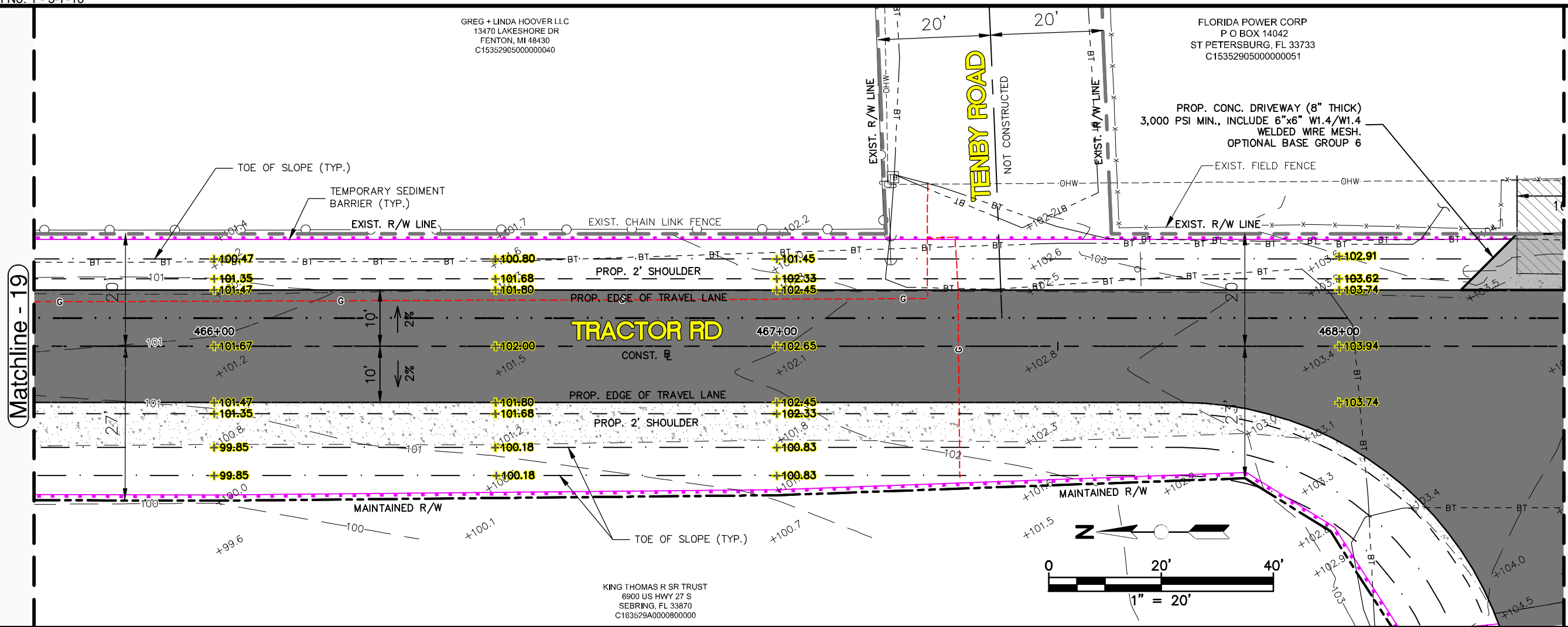


**TRACTOR ROAD
IMPROVEMENTS**
PLAN & PROFILE

SCALE: HORIZ. 1"=20' VERT. 1"=5'	
PROJECT NO. 11048	REV. 0
SHEET 28 OF 59	

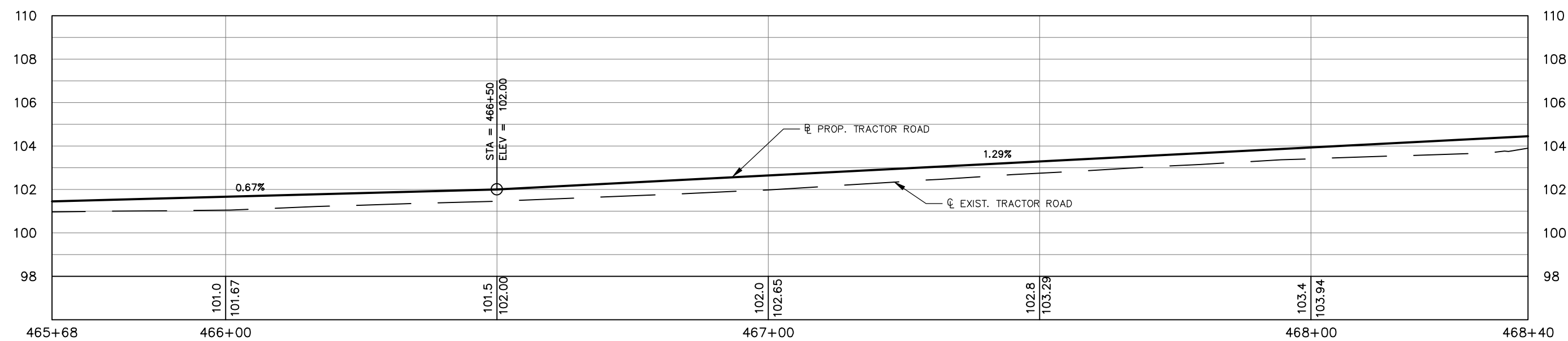
GREG + LINDA HOOVER LLC
13470 LAKESHORE DR
FENTON, MI 48430
C15352905000000040

FLORIDA POWER CORP
P O BOX 14042
ST PETERSBURG, FL 33733
C15352905000000051



See Sheet 28

See Sheet 30



REVISIONS		
DATE	BY	DESCRIPTION

STATUS
FOR BID

DESIGNED BY:
KEITH BAKER, E.I.

DRAWN BY:
DOUG NIETUBICZ

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

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

DATE:
3/7/2016

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

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

DATE:

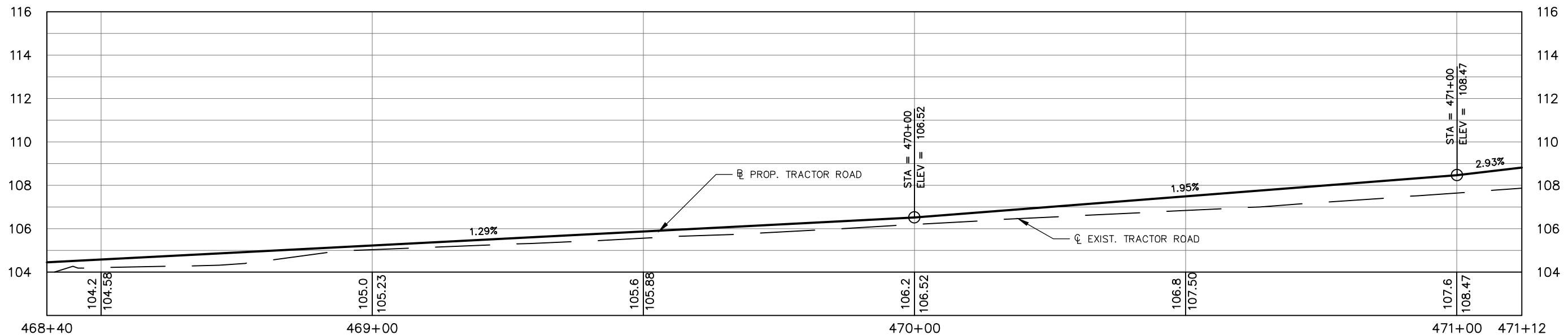
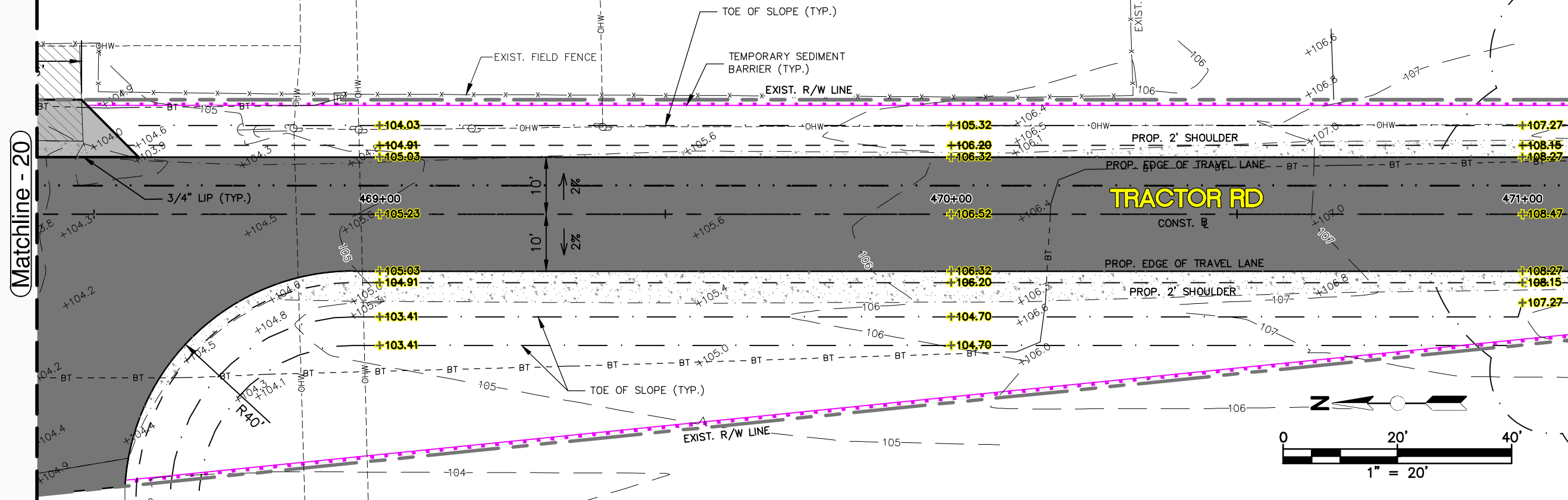


TRACTOR ROAD
IMPROVEMENTS
PLAN & PROFILE

SCALE: HORIZ. 1"=20' VERT. 1"=5'	
PROJECT NO. 11048	REV. 0
SHEET 29 OF 59	

FLORIDA POWER CORP
P O BOX 14042
ST PETERSBURG, FL 33733
C15352905000000051

KING THOMAS R SR TRUST
6900 US HWY 27 S
SEBRING, FL 33870
C15352905000000060



See Sheet 29

See Sheet 31

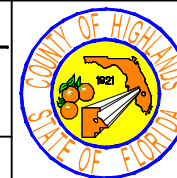
REVISIONS		STATUS
DATE	DESCRIPTION	
		FOR BID

DESIGNED BY:
KEITH BAKER, E.I.
DRAWN BY:
DOUG NIETUBICZ
CHECKED BY:
ELIUS F. NORTELUS, P.E.
IN CHARGE:
ELIUS F. NORTELUS, P.E.
DATE:
3/7/2016

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

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

DATE:



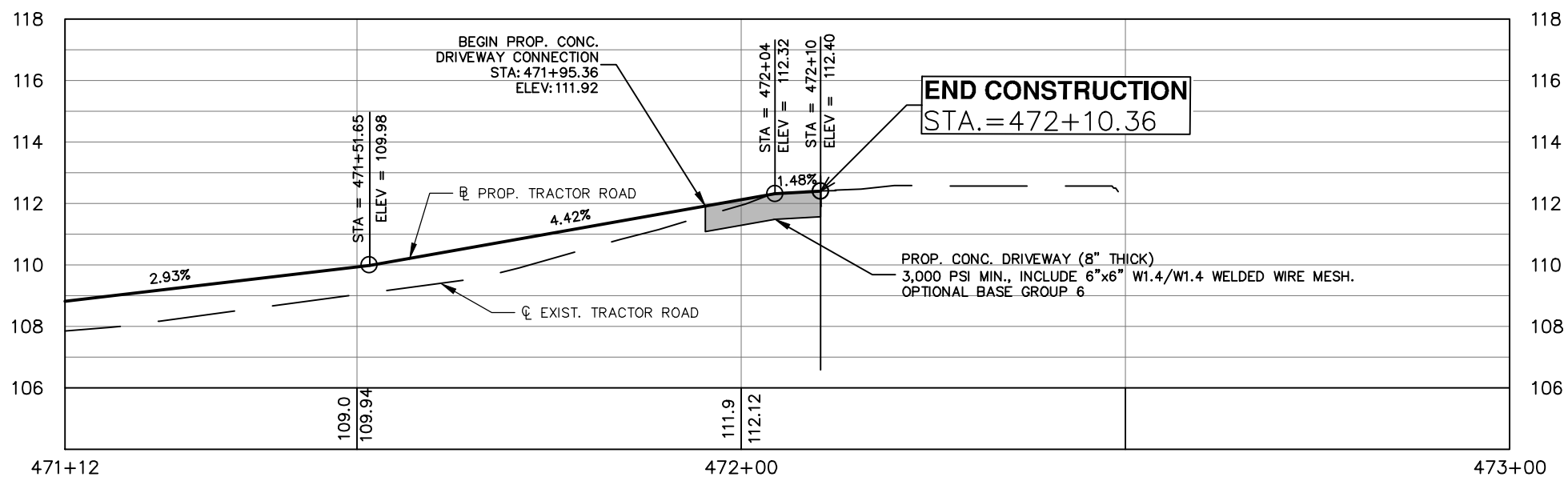
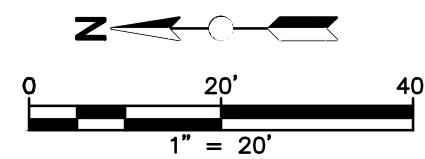
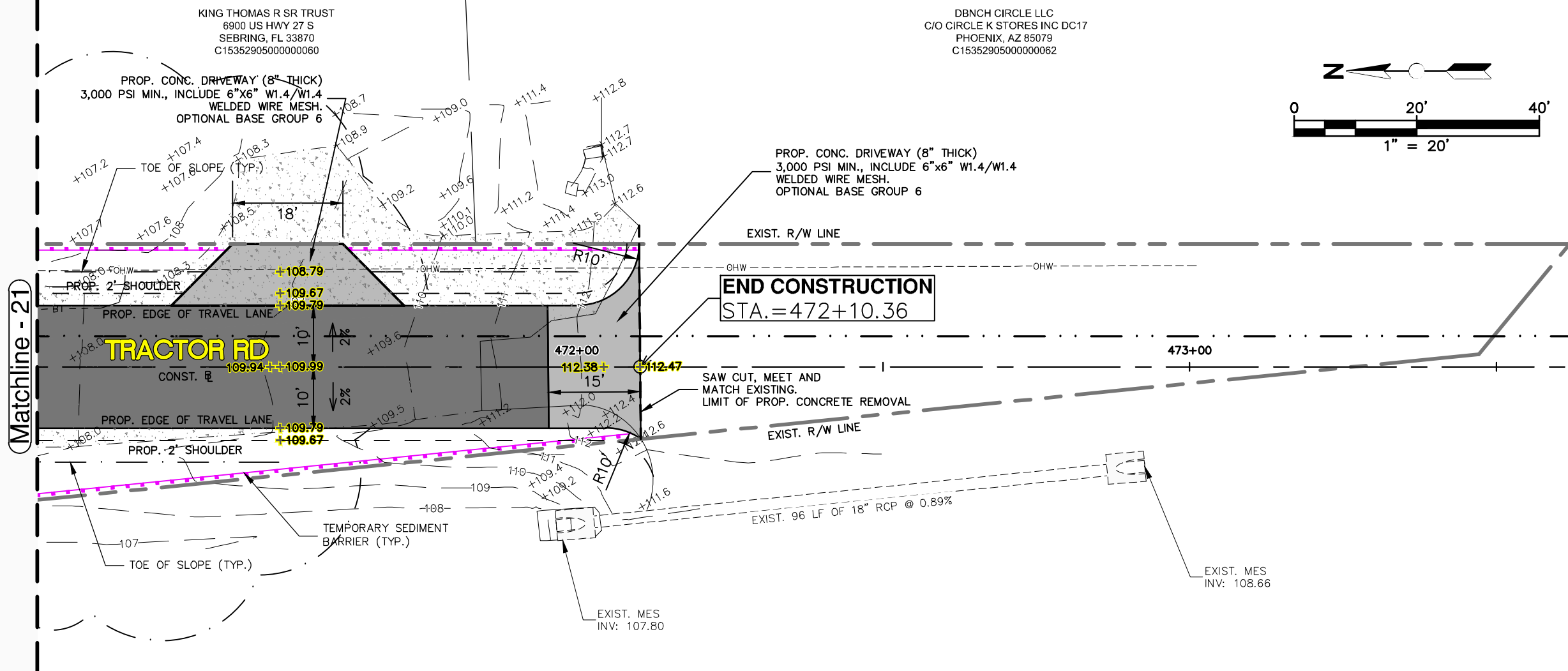
TRACTOR ROAD
IMPROVEMENTS
PLAN & PROFILE

SCALE:
HORIZ. 1"=20'
VERT. 1"=5'

PROJECT NO.
11048

REV.
0

SHEET 30 OF 59



See Sheet 30

See Sheet 32

REVISIONS		STATUS
DATE	DESCRIPTION	
		FOR BID

DESIGNED BY:
KEITH BAKER, E.I.

DRAWN BY:
DOUG NIETUBICZ

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FLORIDA REGISTRATION NO.: 70092

DATE:



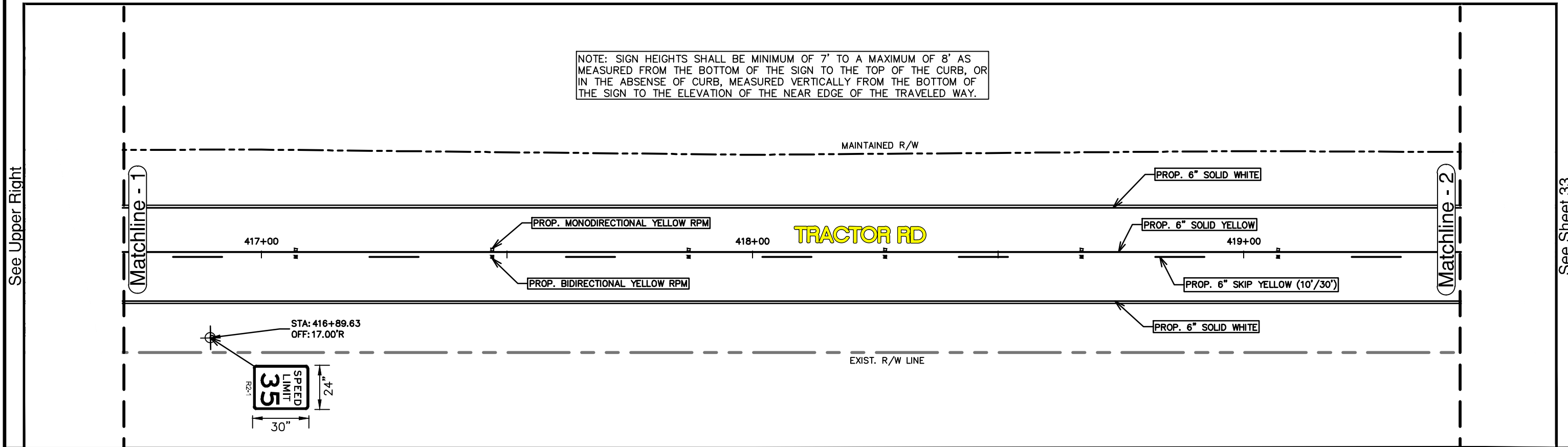
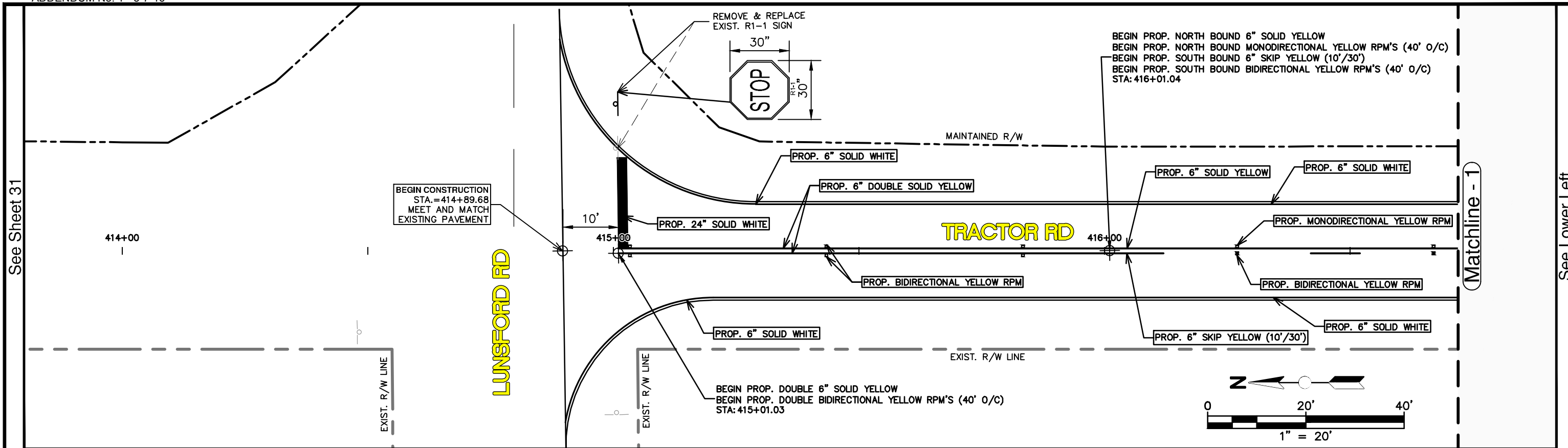
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IMPROVEMENTS
PLAN & PROFILE

SCALE:
HORIZ. 1"=20'
VERT. 1"=5'

PROJECT NO.
11048

REV.
0

SHEET 31 OF 59



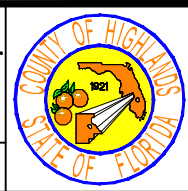
NOTE: SIGN HEIGHTS SHALL BE MINIMUM OF 7' TO A MAXIMUM OF 8' AS MEASURED FROM THE BOTTOM OF THE SIGN TO THE TOP OF THE CURB, OR IN THE ABSENSE OF CURB, MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE ELEVATION OF THE NEAR EDGE OF THE TRAVELED WAY.

REVISIONS		STATUS
DATE	DESCRIPTION	
		FOR BID

DESIGNED BY:
KEITH BAKER, E.I.
DRAWN BY:
DN/KB
CHECKED BY:
ELIUS F. NORTELUS, P.E.
IN CHARGE:
ELIUS F. NORTELUS, P.E.
DATE:
3/7/2016

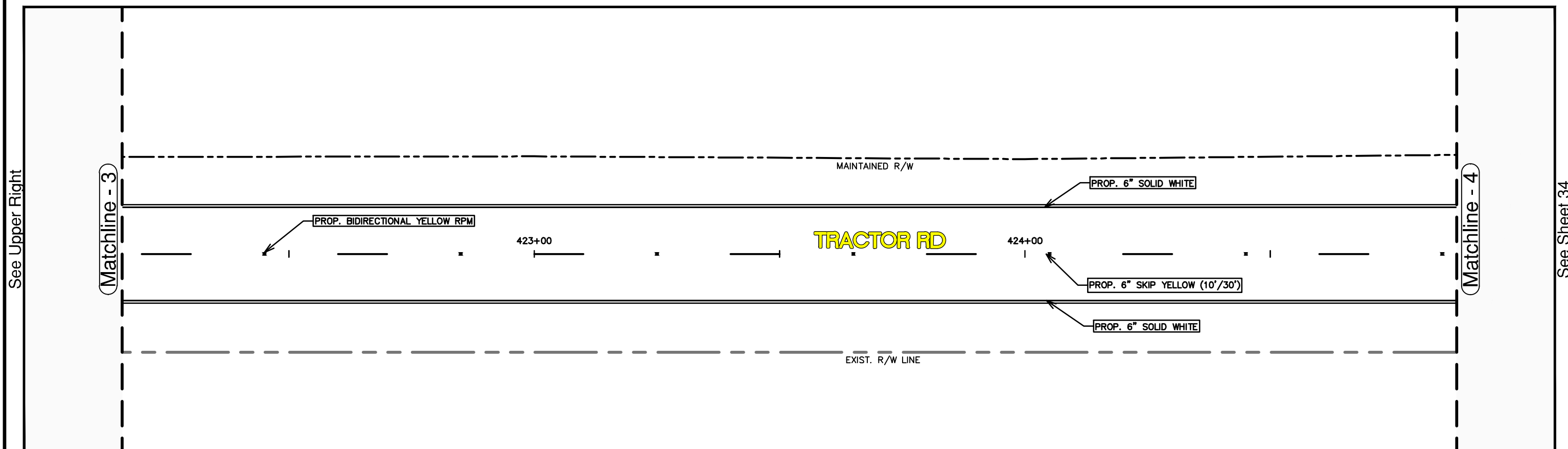
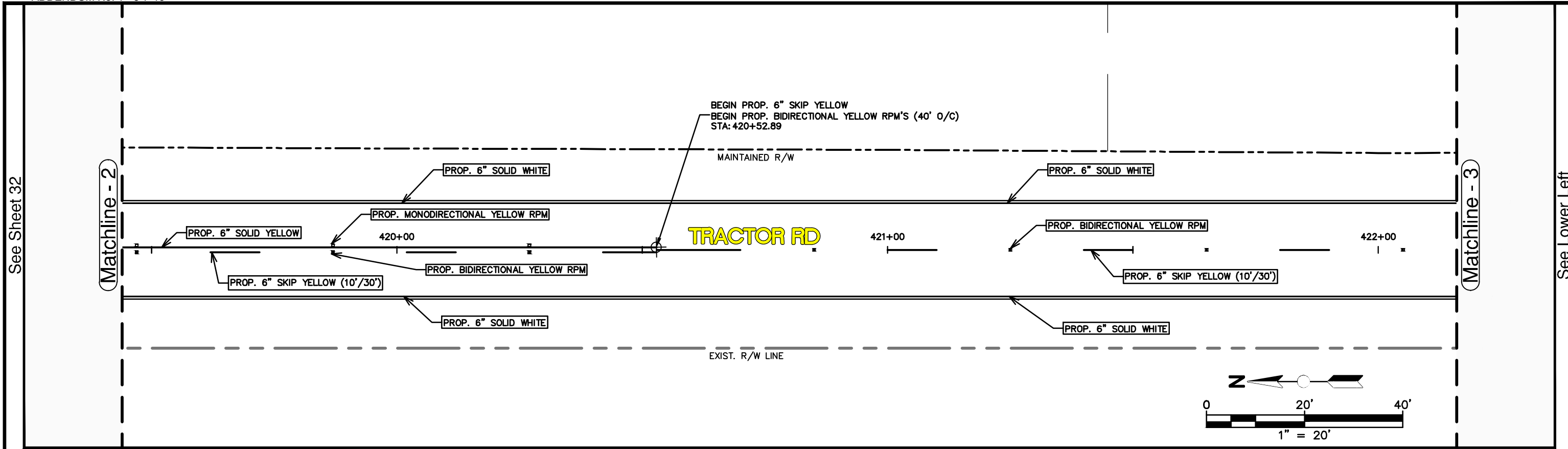
**HIGHLANDS COUNTY
ENGINEERING DEPARTMENT**
505 S. COMMERCE AVENUE
SEBRING, FLORIDA 33870

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



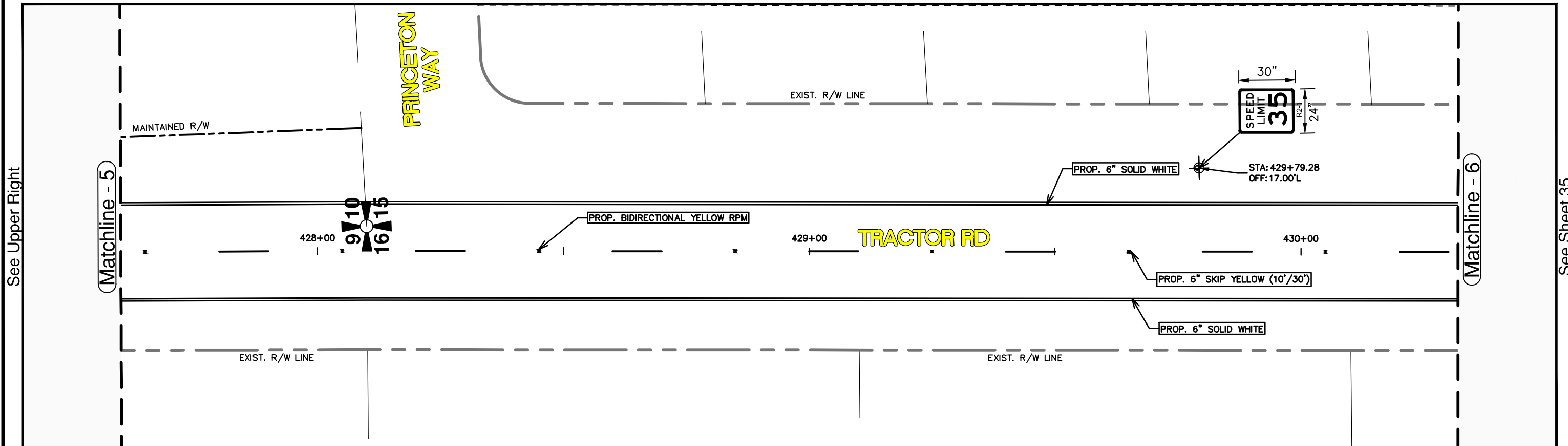
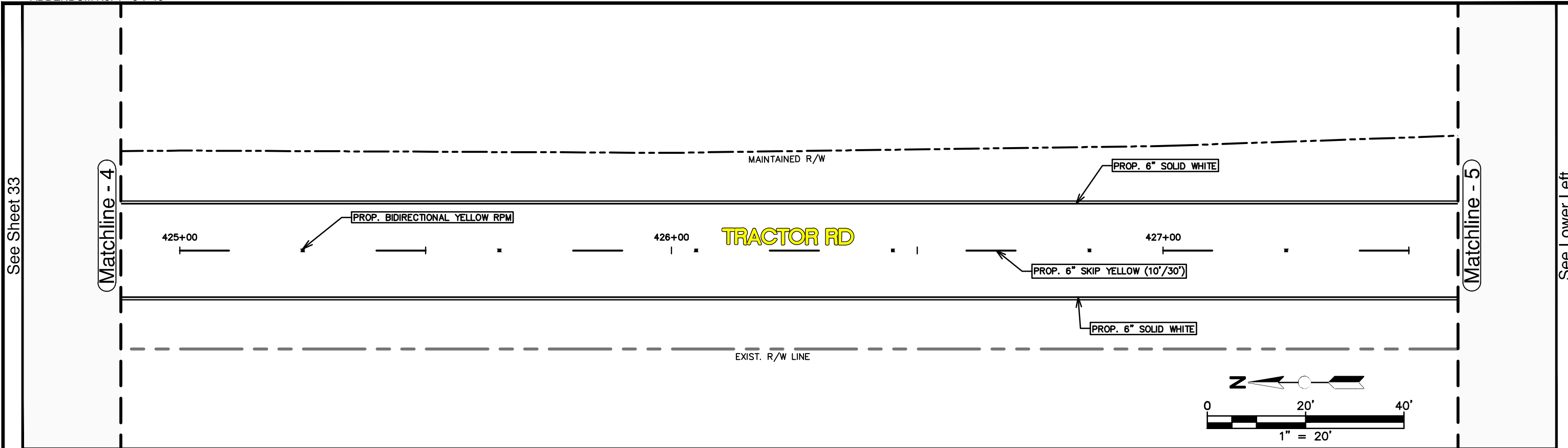
**TRACTOR ROAD
IMPROVEMENTS**
SIGNING & PAVEMENT MARKING PLAN

SCALE: HORIZ. 1"=20' VERT. N/A	
PROJECT NO. 11048	REV. 0
SHEET 32 OF 59	



REVISIONS			FOR BID	DESIGNED BY: KEITH BAKER, E.I. DRAWN BY: DN/KB CHECKED BY: ELIUS F. NORTELUS, P.E. IN CHARGE: ELIUS F. NORTELUS, P.E. DATE: 3/7/2016	HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870		TRACTOR ROAD IMPROVEMENTS SIGNING & PAVEMENT MARKING PLAN	SCALE:	HORIZ. 1"=20' VERT. N/A	
DATE	BY	DESCRIPTION						PROJECT NO.		REV.
								11048		0
APPROVED BY: ELIUS F. NORTELUS, P.E. DATE:						FLORIDA REGISTRATION NO.: 70092		SHEET 33 OF 59		

G:\PROJECTS\2011\11048 Tractor Road Pavement Reconstruct\All Drawings\Sign and Pavement Markings Plan Tractor Road.dwg, 33 SPM (2), Nietubicz, Douglas Colors As Black Except Gray Colors.ctb



REVISIONS		STATUS
DATE	DESCRIPTION	
		FOR BID

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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

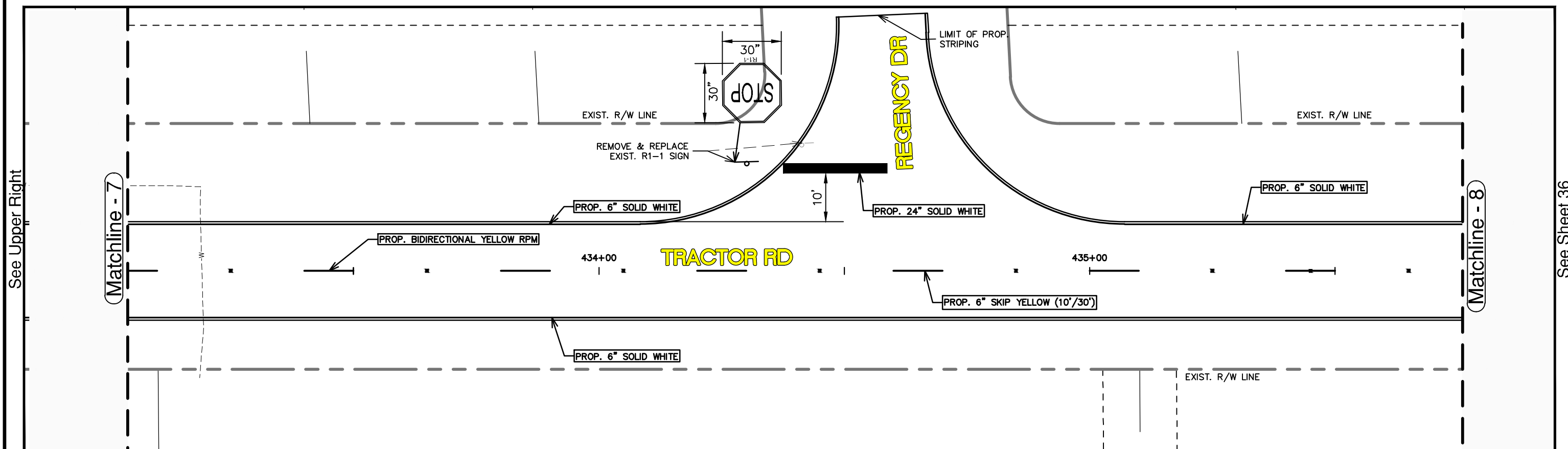
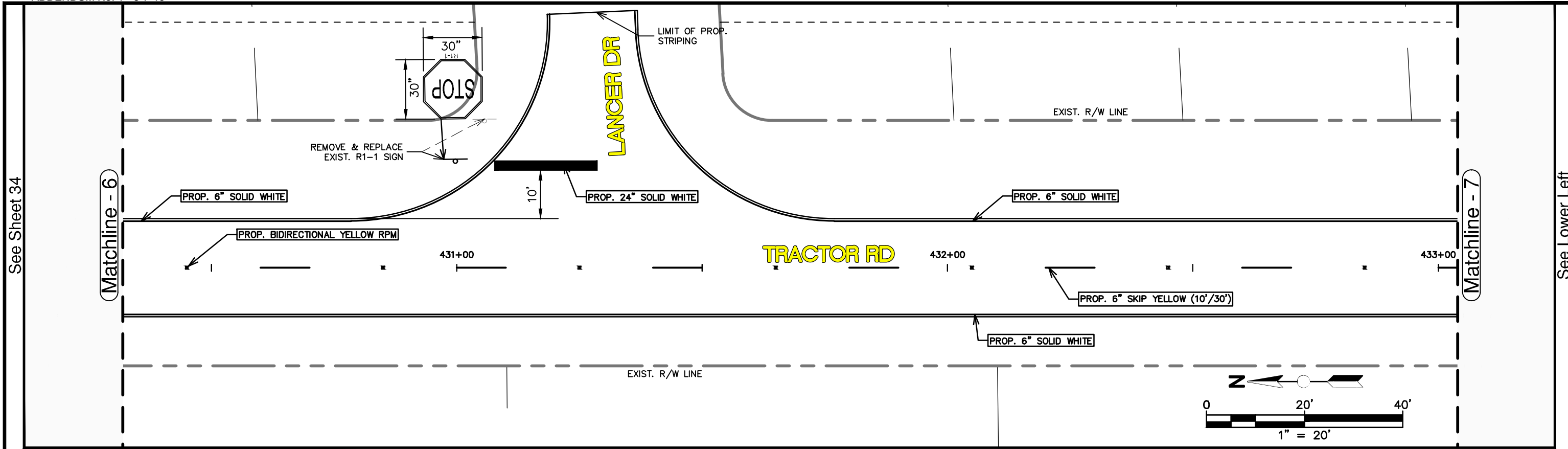
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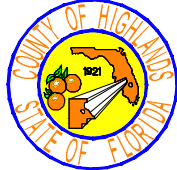
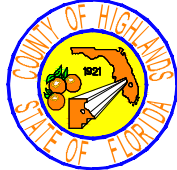


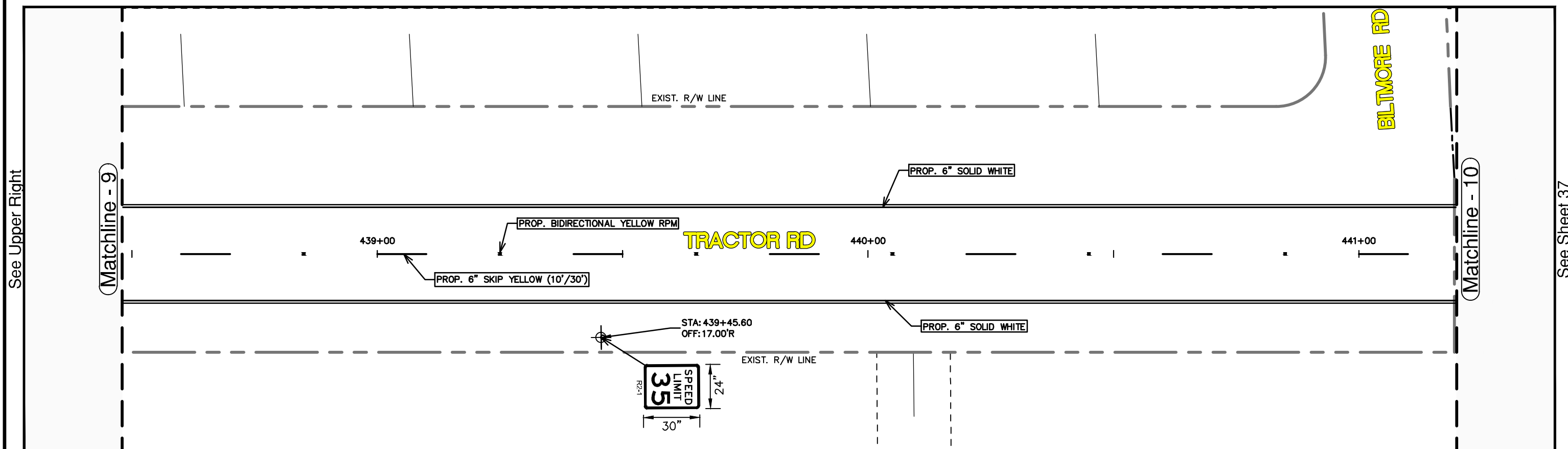
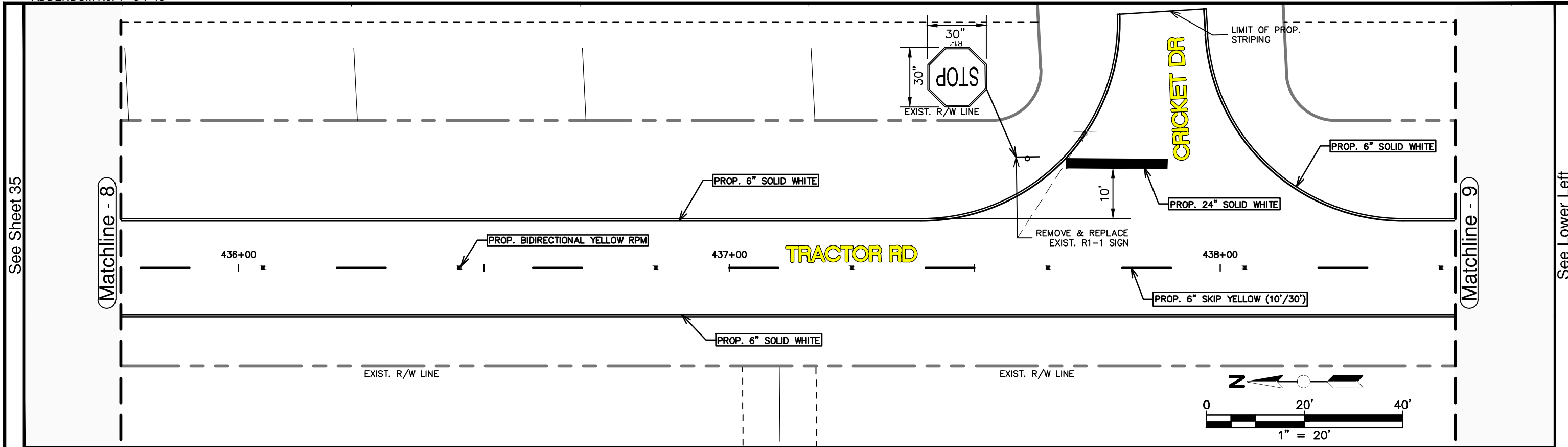
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IMPROVEMENTS**

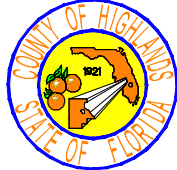
SIGNING & PAVEMENT MARKING PLAN

SCALE: HORIZ. 1"=20' VERT. N/A	
PROJECT NO. 11048	REV. 0
SHEET 34 OF 59	

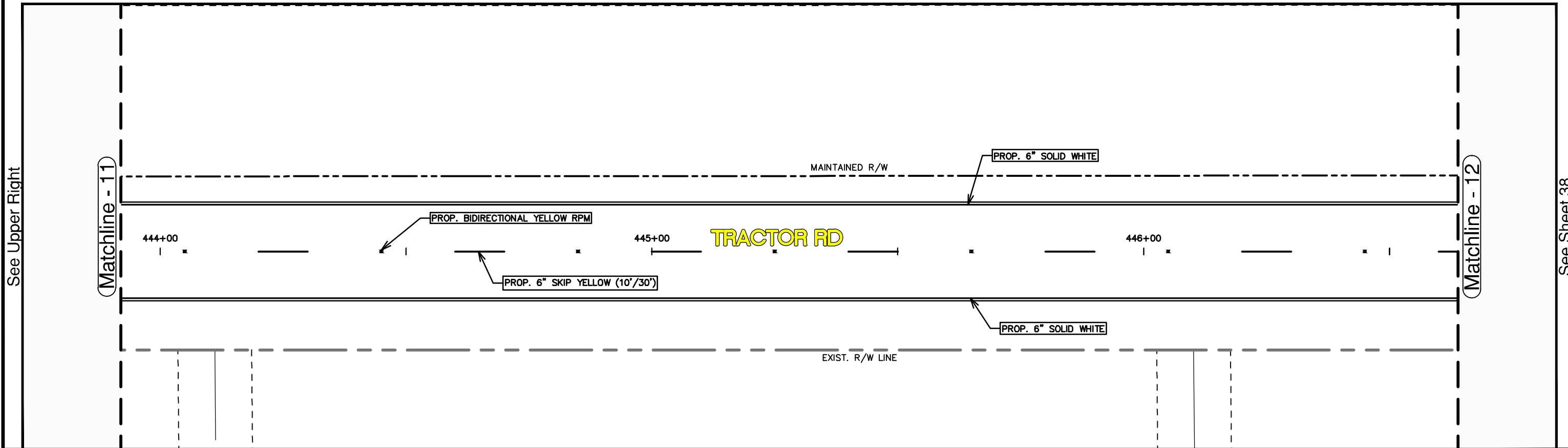
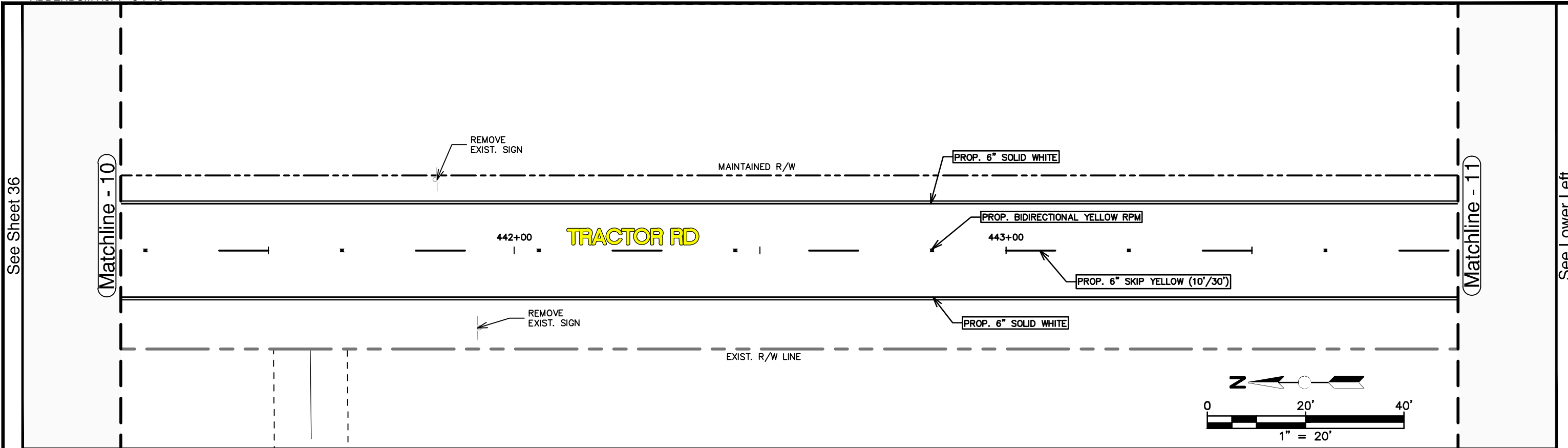


REVISIONS			STATUS	DESIGNED BY: KEITH BAKER, E.I.	HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870		TRACTOR ROAD IMPROVEMENTS SIGNING & PAVEMENT MARKING PLAN	SCALE:	
DATE	BY	DESCRIPTION						HORIZ. 1"=20'	VERT. N/A
			FOR BID	DRAWN BY: DN/KB	APPROVED BY: ELIUS F. NORTELUS, P.E. FLORIDA REGISTRATION NO.: 70092		DATE:	PROJECT NO.	REV.
				CHECKED BY: ELIUS F. NORTELUS, P.E.				11048	0
				IN CHARGE: ELIUS F. NORTELUS, P.E.					
				DATE: 3/7/2016					



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DATE	BY											

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DATE	DESCRIPTION	
		FOR BID

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**HIGHLANDS COUNTY
ENGINEERING DEPARTMENT**

505 S. COMMERCE AVENUE
SEBRING, FLORIDA 33870

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



**TRACTOR ROAD
IMPROVEMENTS**

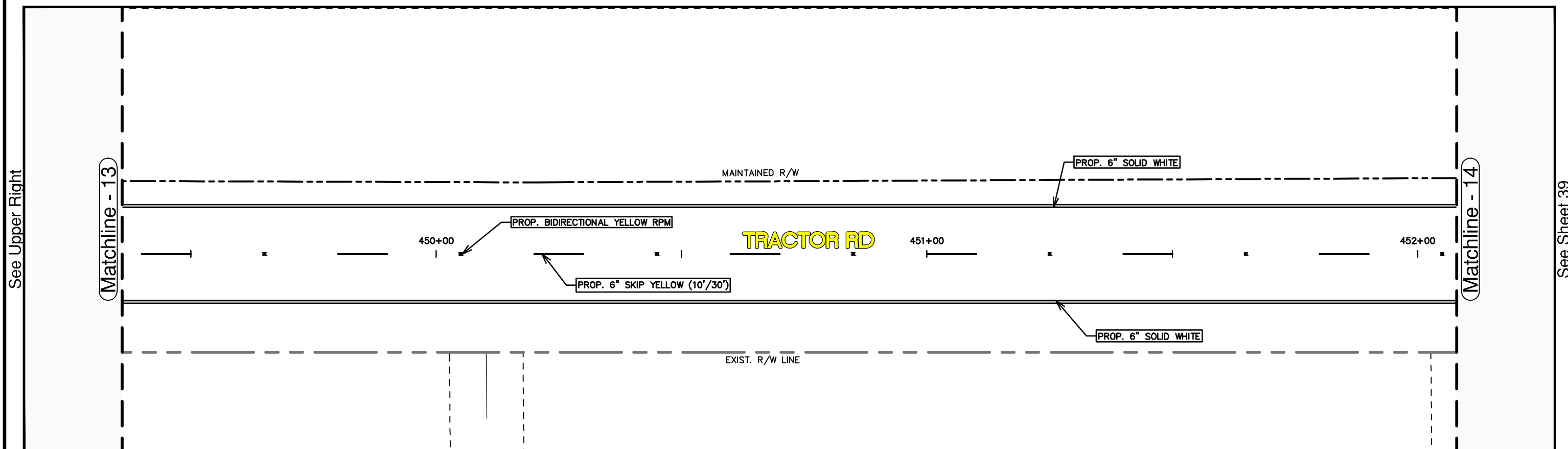
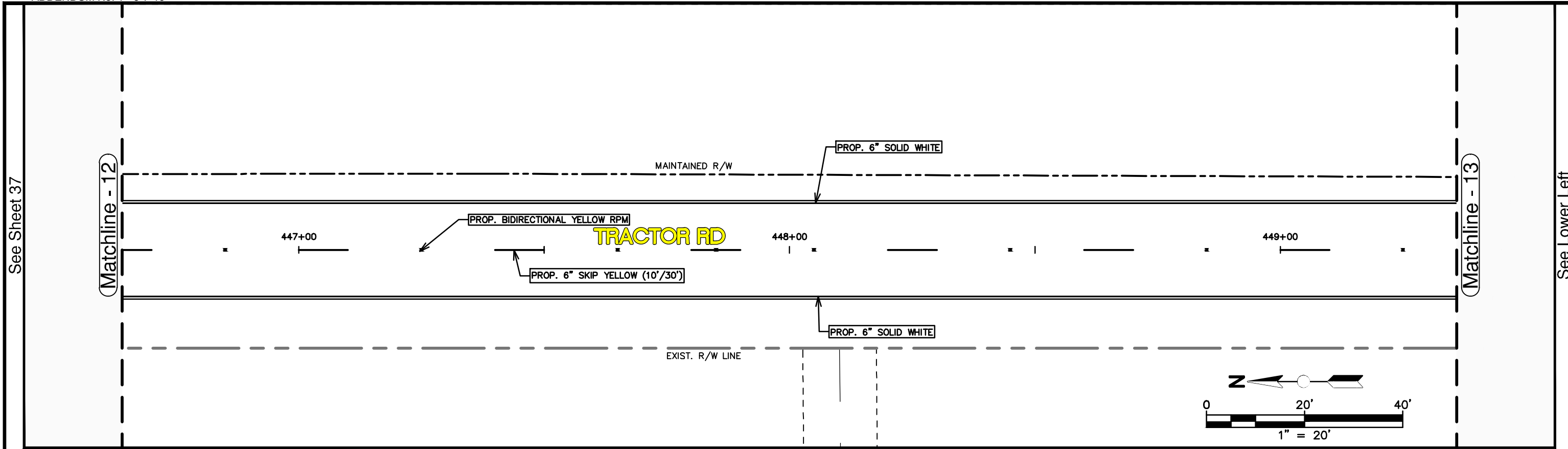
SIGNING & PAVEMENT MARKING PLAN

SCALE:
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VERT. N/A

PROJECT NO. 11048 REV. 0

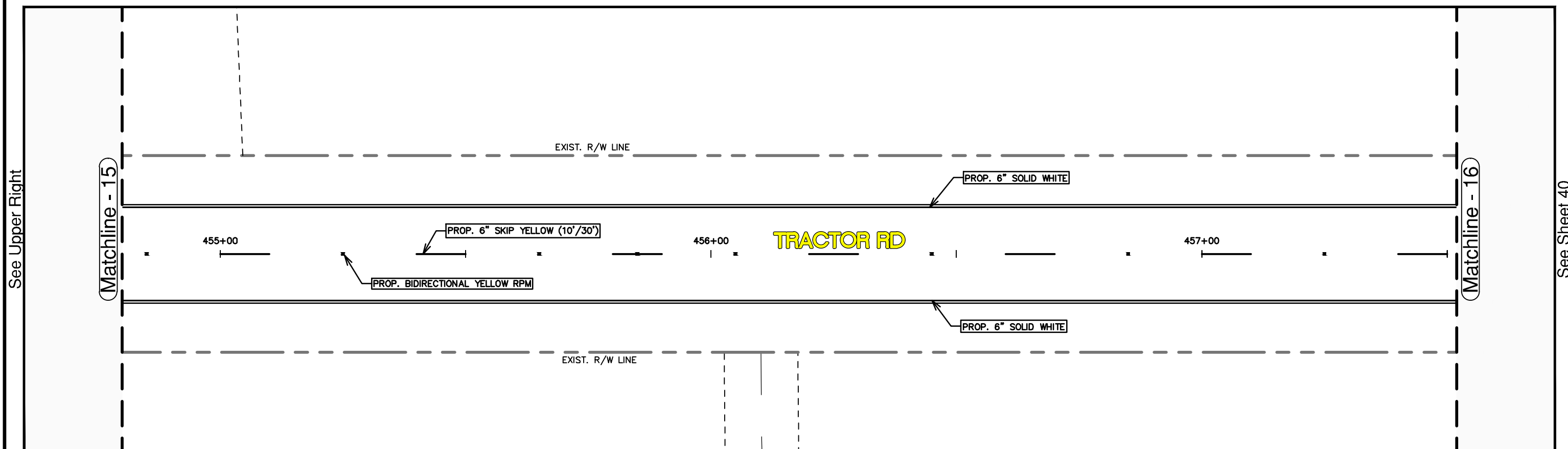
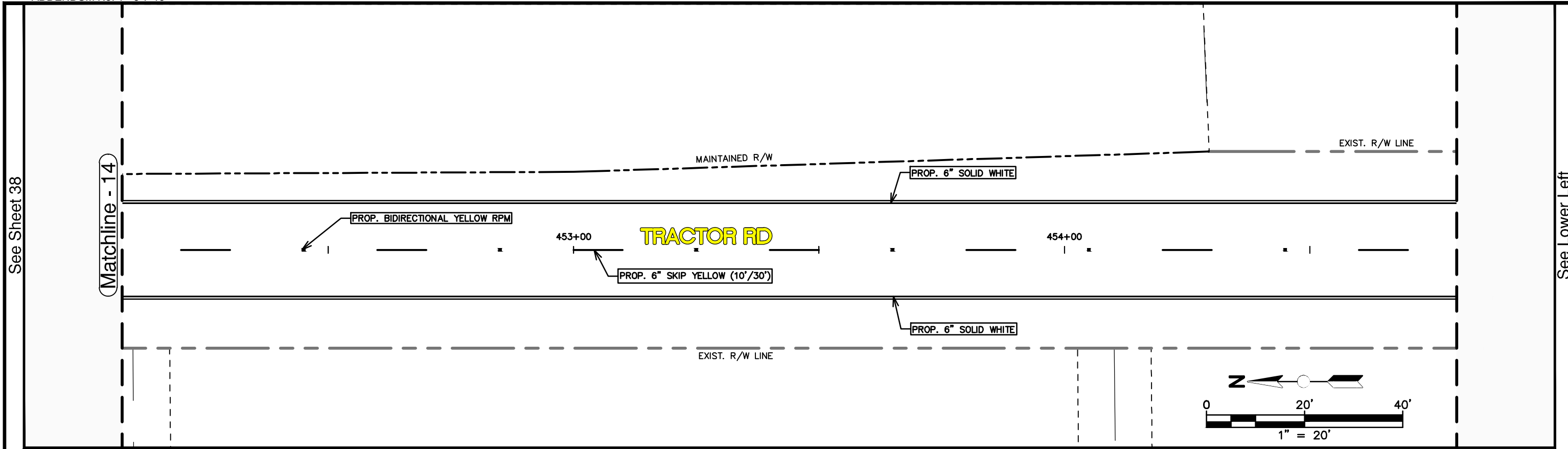
SHEET 37 OF 59

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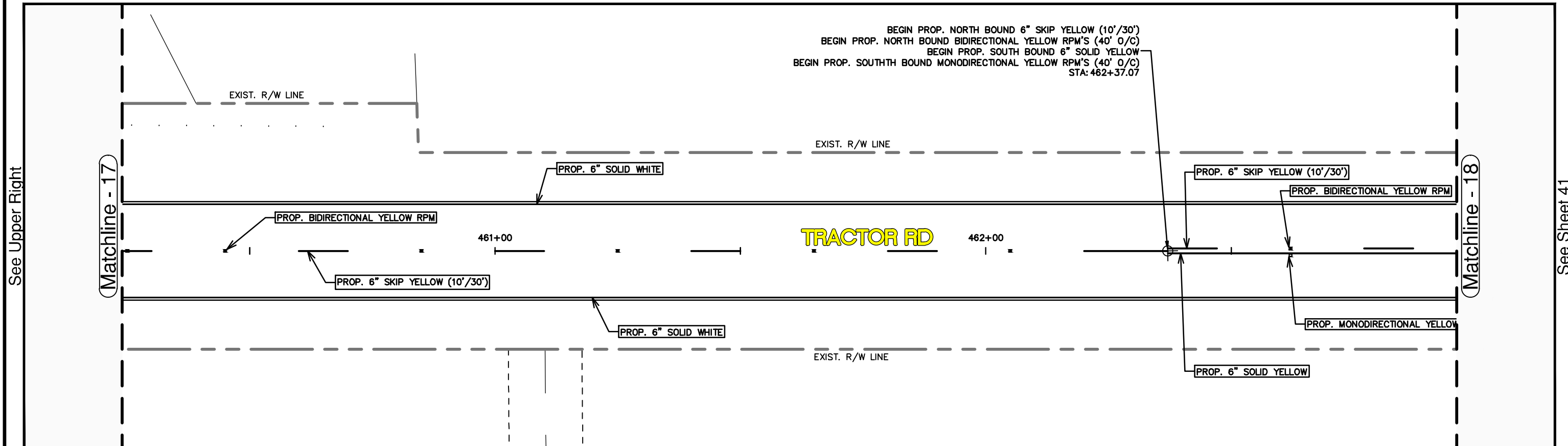
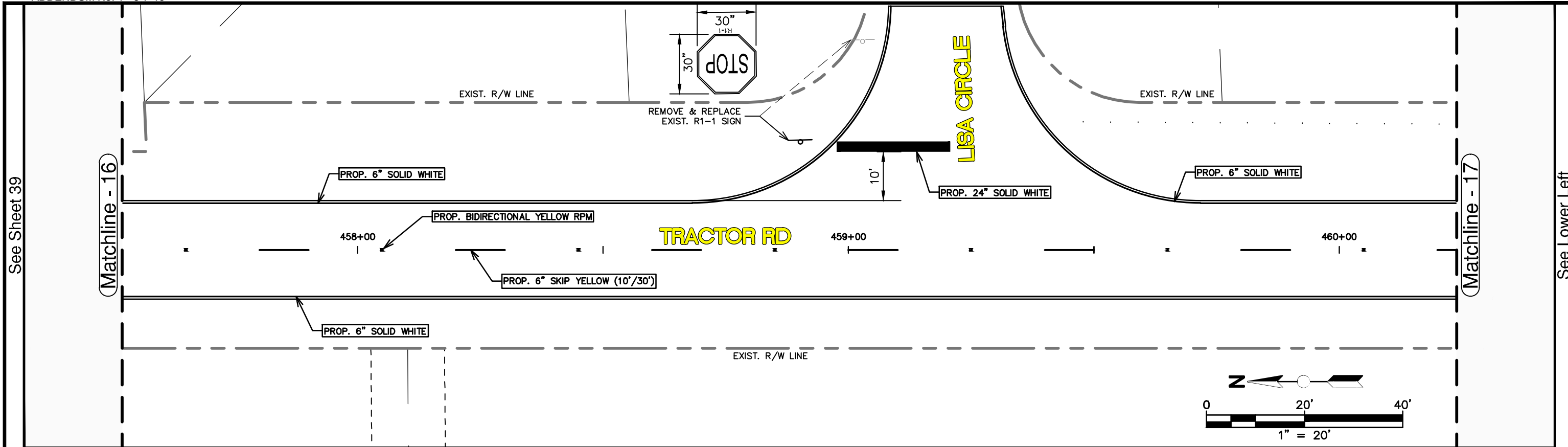
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DATE	BY	DESCRIPTION						PROJECT NO.		REV.
								11048		0
APPROVED BY: ELIUS F. NORTELUS, P.E.				DATE:	SHEET 38 OF 59					
FLORIDA REGISTRATION NO.: 70092										

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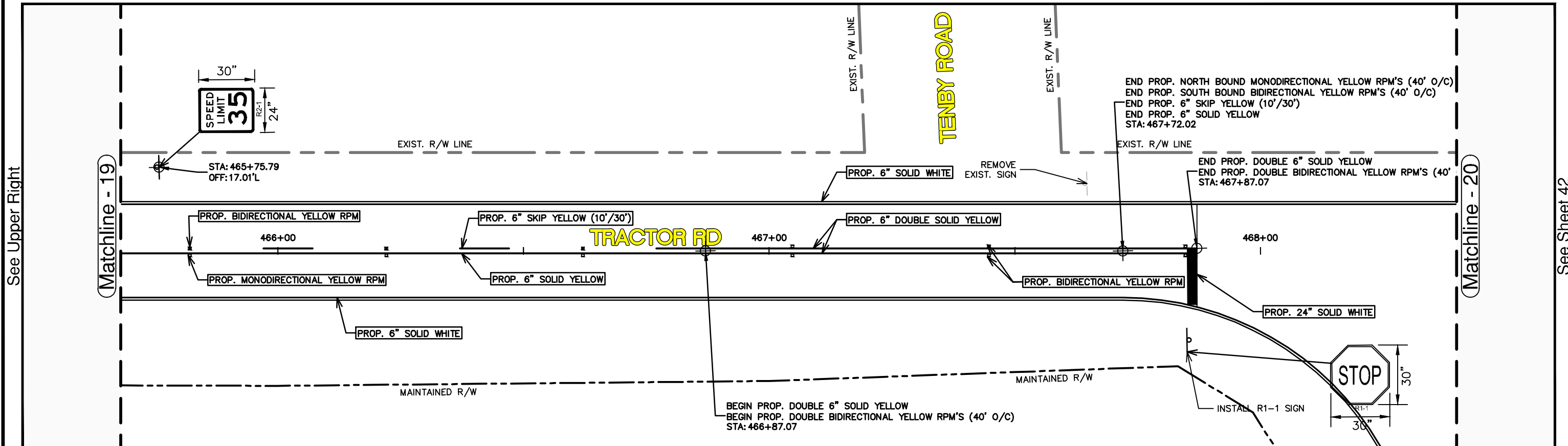
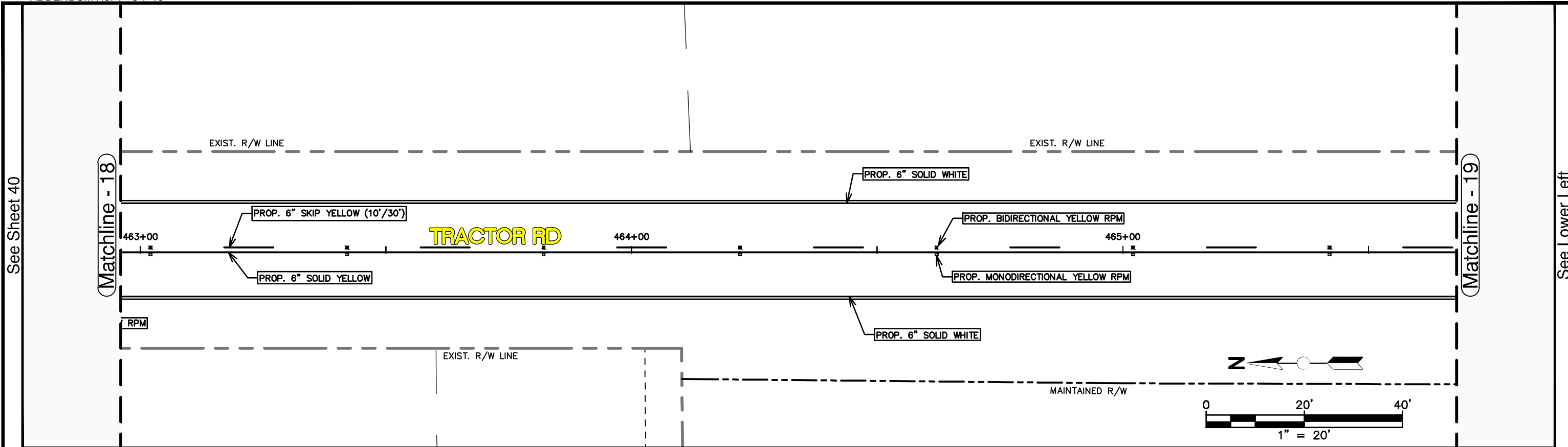
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DATE	BY	DESCRIPTION						HORIZ. 1"=20'		VERT. N/A
APPROVED BY: ELIUS F. NORTELUS, P.E. FLORIDA REGISTRATION NO.: 70092				DATE:						

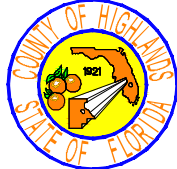
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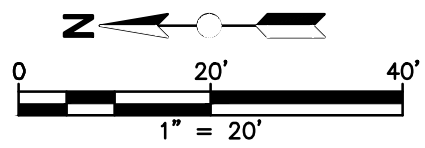
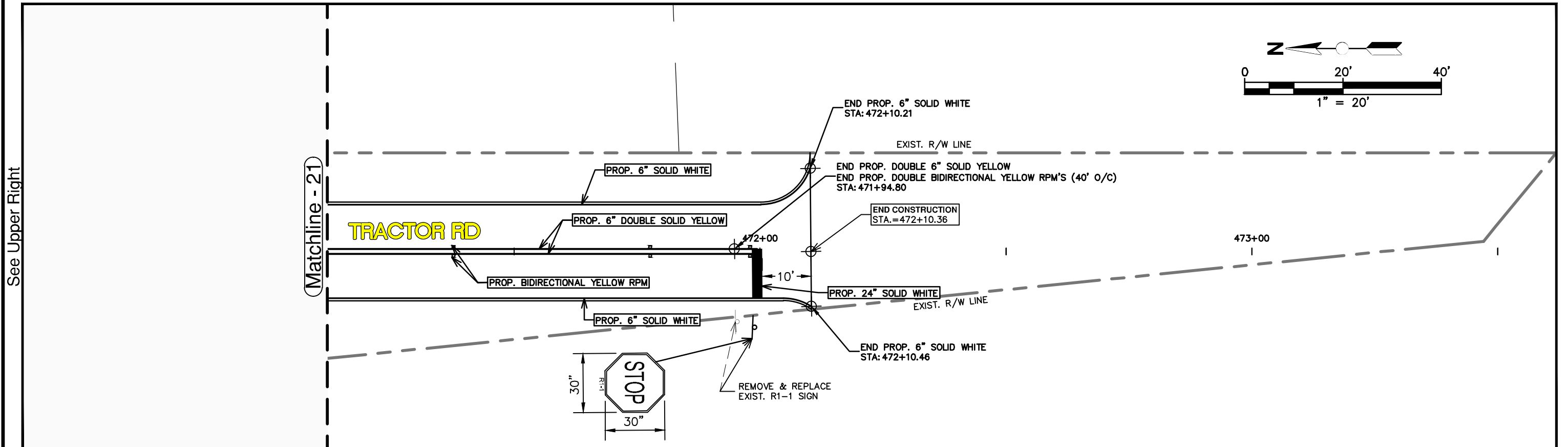
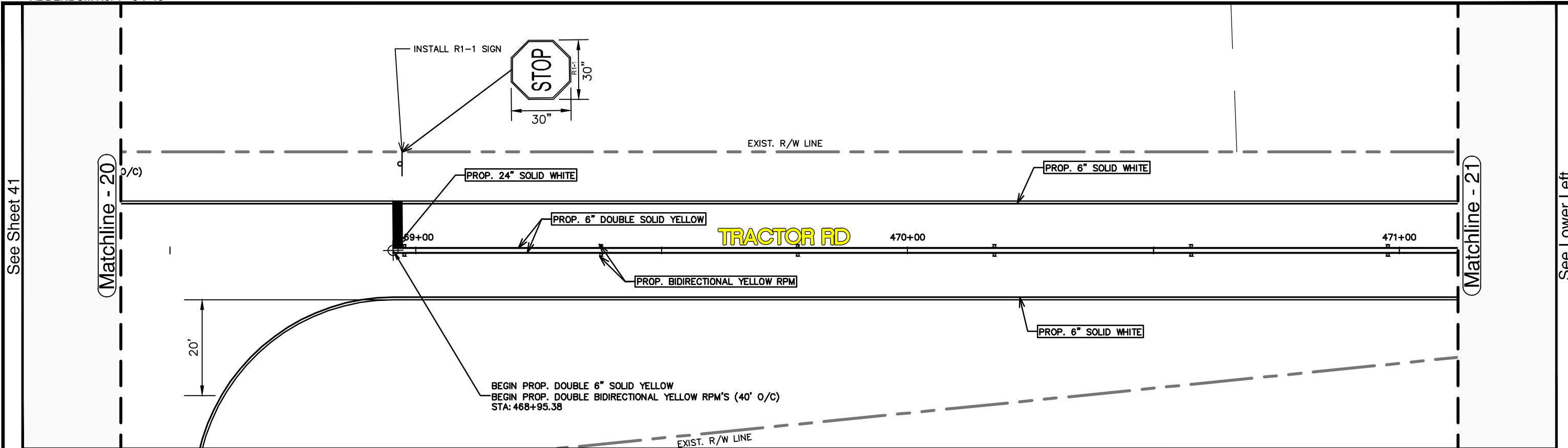
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DATE	BY	DESCRIPTION														
			FOR BID													

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DATE	BY	DESCRIPTION											
			FOR BID	HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870					 TRACTOR ROAD IMPROVEMENTS SIGNING & PAVEMENT MARKING PLAN		SHEET 41 OF 59		

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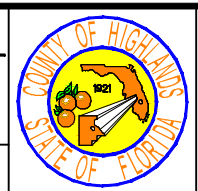
REVISIONS		STATUS
DATE	DESCRIPTION	
		FOR BID

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

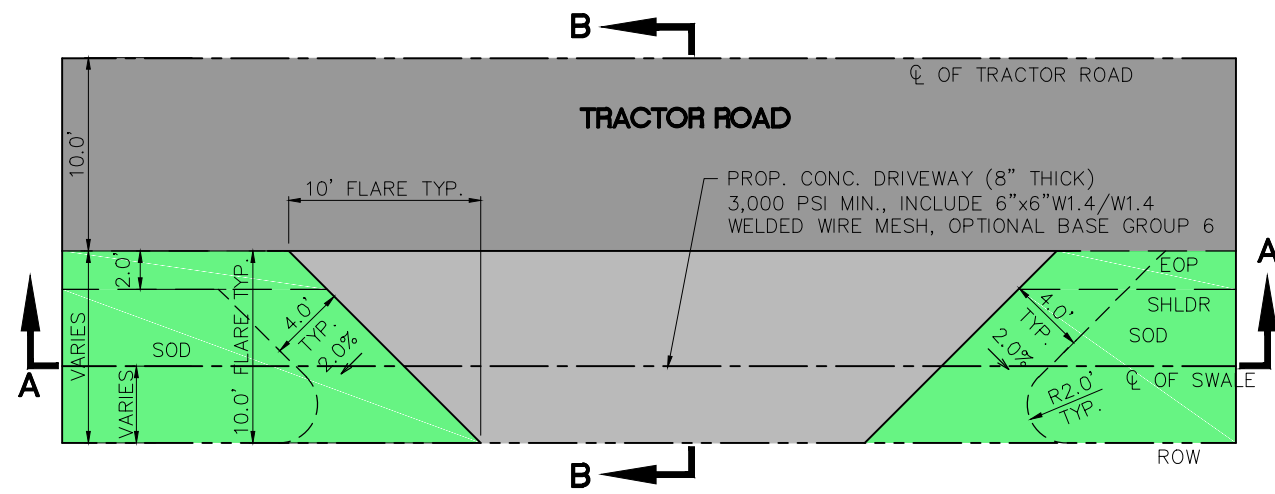
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**TRACTOR ROAD
IMPROVEMENTS**

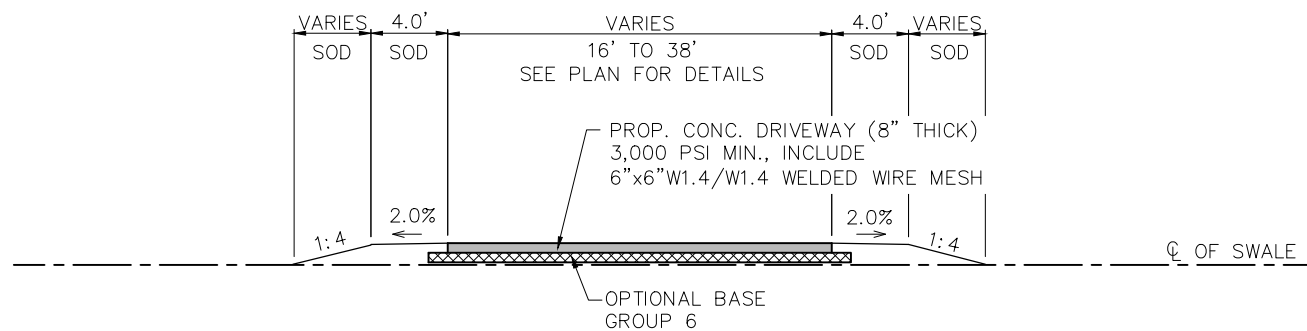
SIGNING & PAVEMENT MARKING PLAN

SCALE: HORIZ. 1"=20' VERT. N/A	
PROJECT NO. 11048	REV. 0
SHEET 42 OF 59	

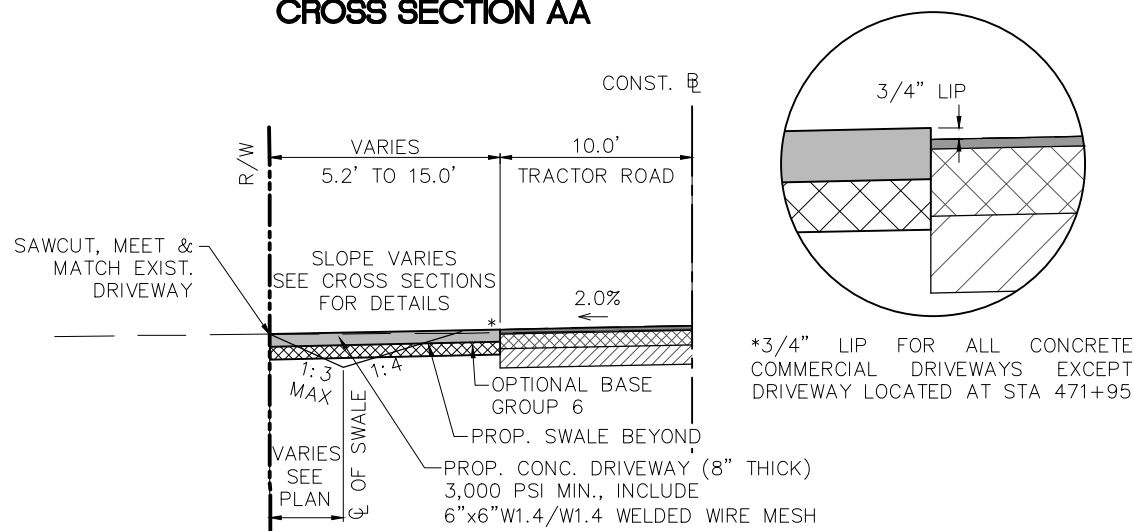


PLAN VIEW

- NOTES:
1. ASPHALT COMM. DRIVEWAY LOCATED FROM STA 428+09R TO 433+23R IS DETAILED ON THE PLAN.
 2. CONC. COMM. DRIVEWAY LOCATED AT STA 441+45L HAS 5'x5' FLARES
 3. CONC. COMM. DRIVEWAY LOCATED AT STA 471+95 HAS CURVED RADII DETAILED ON PLAN

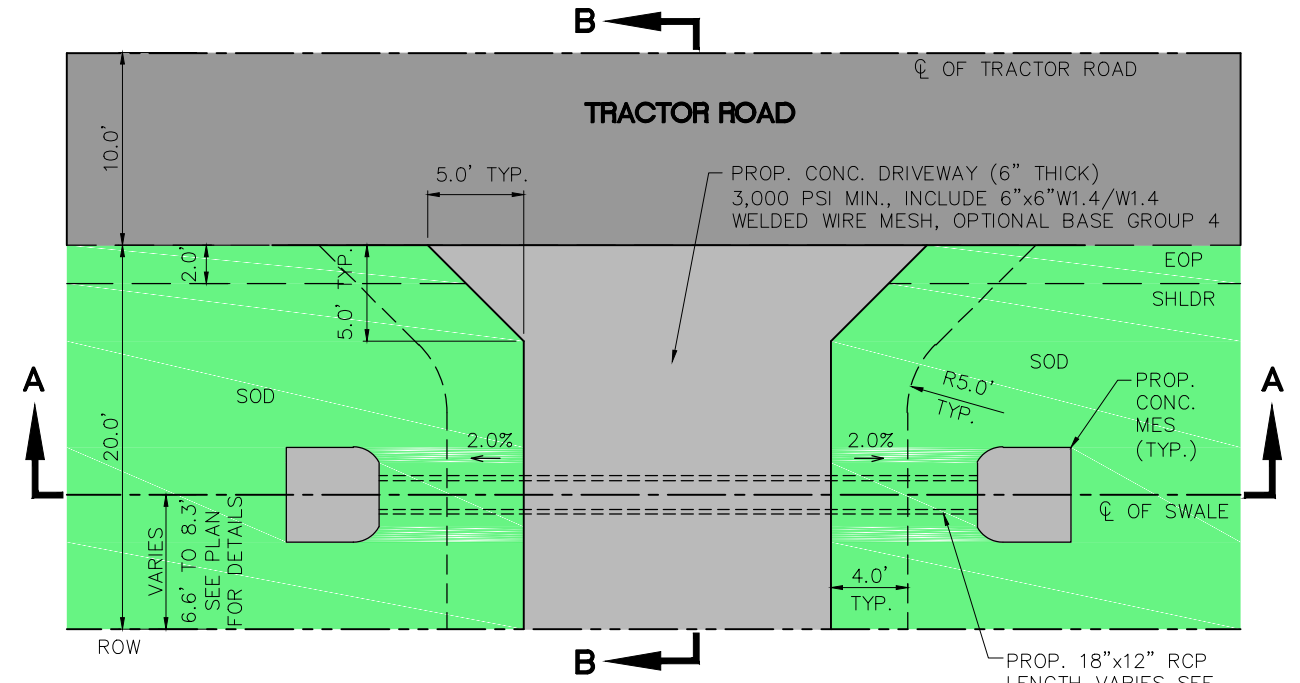


CROSS SECTION AA



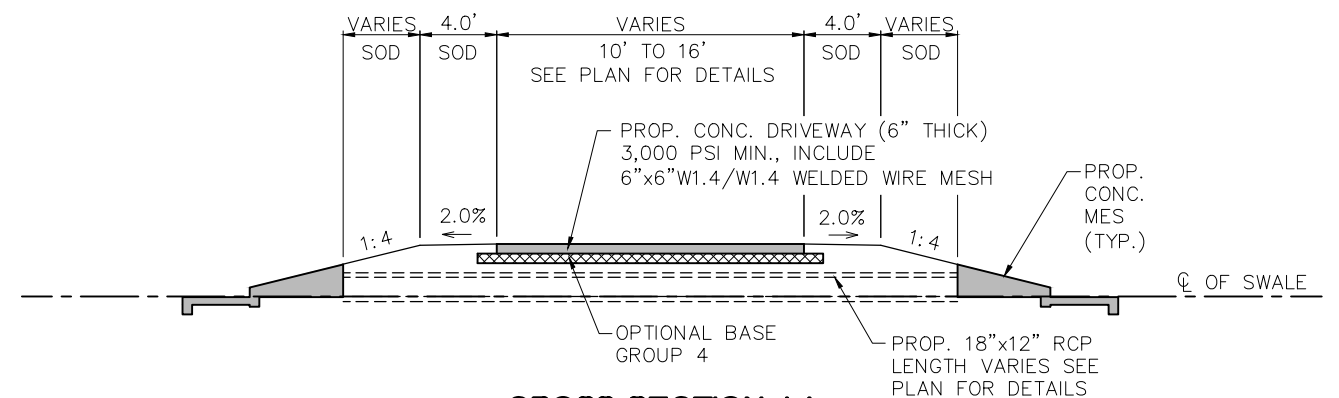
CROSS SECTION BB

TYPICAL CONCRETE COMMERCIAL DRIVEWAY DETAIL

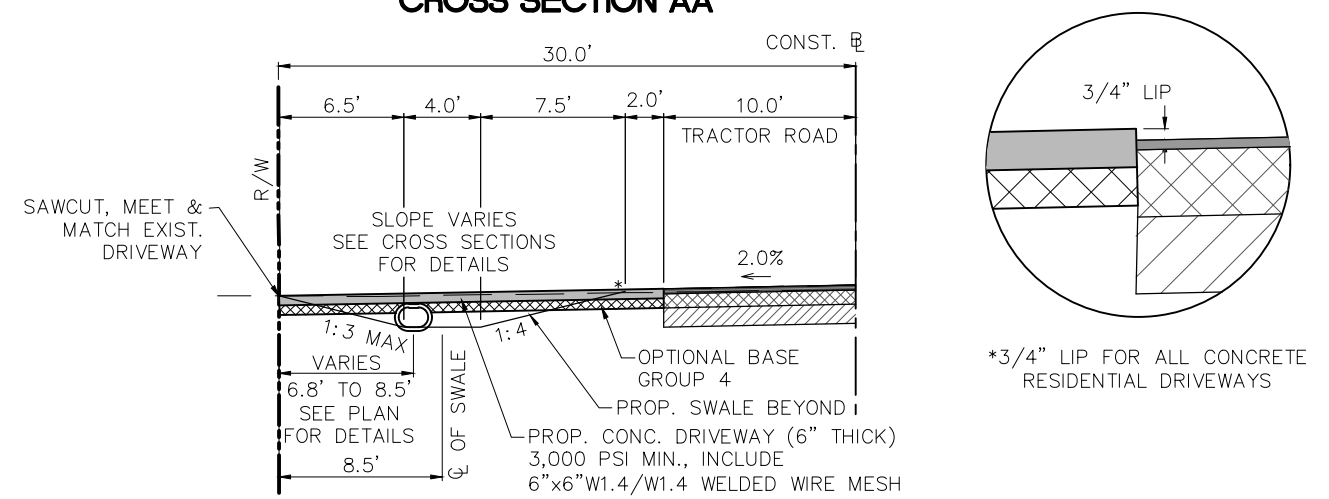


PLAN VIEW

PROP. 18"x12" RCP LENGTH VARIES SEE PLAN FOR DETAILS



CROSS SECTION AA



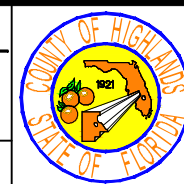
CROSS SECTION BB

TYPICAL CONCRETE RESIDENTIAL DRIVEWAY DETAIL

REVISIONS		STATUS
DATE	DESCRIPTION	
		FOR BID

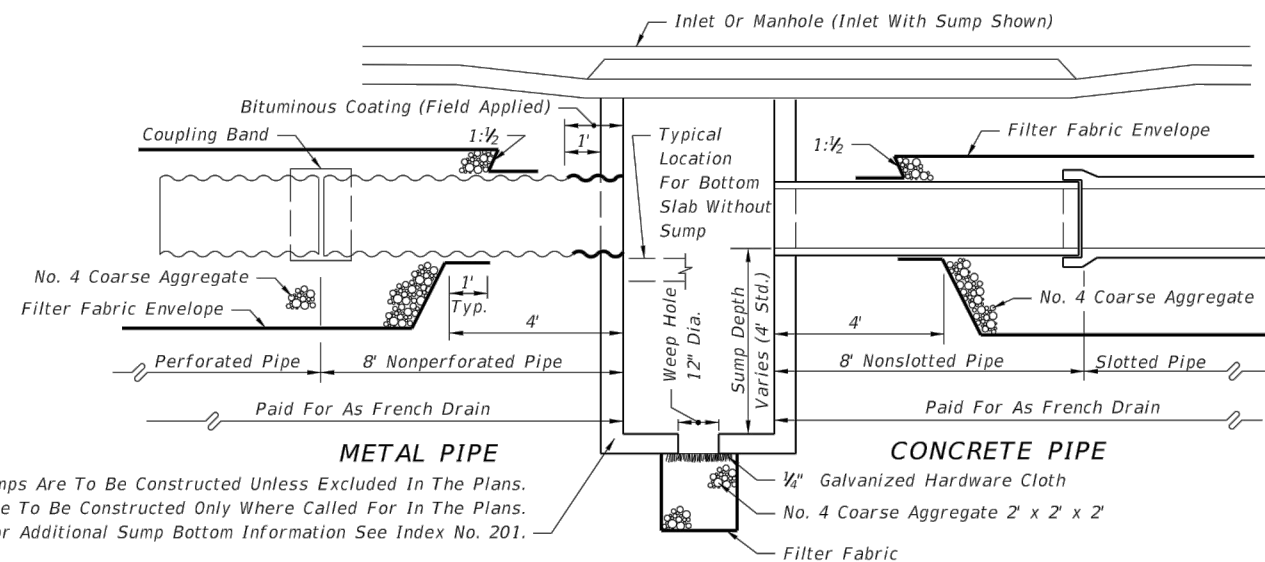
DESIGNED BY:
KEITH BAKER, E.I.
DRAWN BY:
KEITH BAKER, E.I.
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ELIUS F. NORTELUS, P.E.
IN CHARGE:
ELIUS F. NORTELUS, P.E.
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ENGINEERING DEPARTMENT
505 S. COMMERCE AVENUE
SEBRING, FLORIDA 33870
APPROVED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



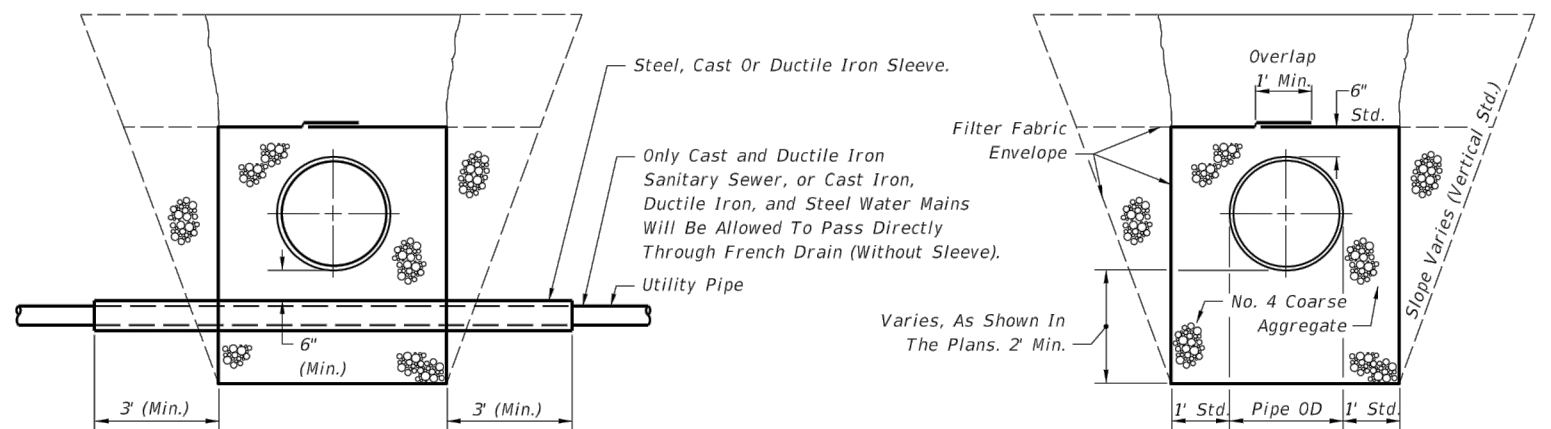
TRACTOR ROAD
IMPROVEMENTS
DRIVEWAY DETAIL

SCALE:
HORIZ. 1"=10'
VERT. N/A
PROJECT NO. 11048
REV. 0
SHEET 43 OF 59



Sumps Are To Be Constructed Unless Excluded In The Plans.
Weep Hole To Be Constructed Only Where Called For In The Plans.
For Additional Sump Bottom Information See Index No. 201.

LONGITUDINAL SECTION



ROUND PIPE SHOWN
UTILITY PIPES THRU FRENCH DRAIN

ROUND PIPE SHOWN
STANDARD CROSS SECTION (ENLARGED)

FRENCH DRAIN SYSTEM

GENERAL NOTES

1. Pipe shall be any of the optional types permitted in Section 443 of the Specifications unless otherwise restricted in the plans. Dissimilar types of pipe will not be permitted in a continuous run of pipe.
2. Concrete pipe shall be placed with the slots positioned on sides.
3. Alignment joints are standard (gaskets not required). Recorrugation of metal pipe ends not required.
4. The contractor may submit other methods of providing slots having equal or greater area of opening, for approval by the Engineer.
5. Filter fabric shall be Type D-3 meeting the requirements of Section 985. All filter fabric joints shall lap a minimum of one (1) foot.
6. The standard cross section shall be constructed unless other section(s) described or detailed in the plans.
7. For supplemental details see Index No. 280.
8. The contractor shall take the necessary precautions to prevent contamination of the trench with sand, silt and foreign materials.
9. French drains shall be paid for under the contract unit price for French Drains, LF. The unit price shall include the cost of pipe, pipe plugs, pipe fittings, coarse aggregate and filter fabric in place, and the cost for trench excavation, backfill and compaction. The unit price shall also include the cost for disposal of surplus excavated materials and cost for restoration of pavement removed or damaged by french drain construction, but shall not include payments for items paid for elsewhere.

DESIGN NOTES

1. Pipe invert should be at or above the water table whenever possible.
2. French drains with minor dimensional changes or otherwise different from the standard cross-section shall be either described or detailed in the plans. French drains with significantly different cross-sections shall be detailed in the plans.

LAST REVISION 07/01/10	DESCRIPTION:	2015 FDOT DESIGN STANDARDS	FRENCH DRAIN	INDEX NO. 285	SHEET NO. 1 of 2
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DATE	BY	DESCRIPTION

STATUS	DESIGNED BY: ELIUS F. NORTELUS, P.E.
FOR BID	DRAWN BY: DOUG NIETUBICZ
	CHECKED BY: KEITH BAKER, E.I.
	IN CHARGE: ELIUS F. NORTELUS, P.E.
	DATE: 3/7/2016

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

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

DATE:



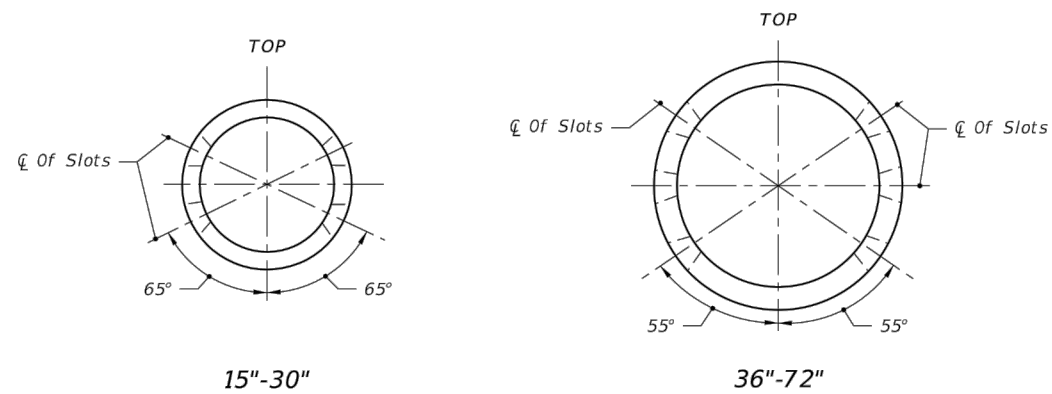
**TRACTOR ROAD
IMPROVEMENTS**
FRENCH DRAIN DETAILS

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

PROJECT NO. 11048

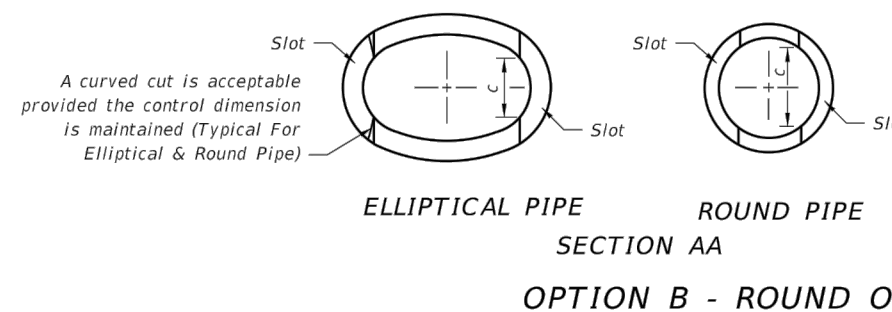
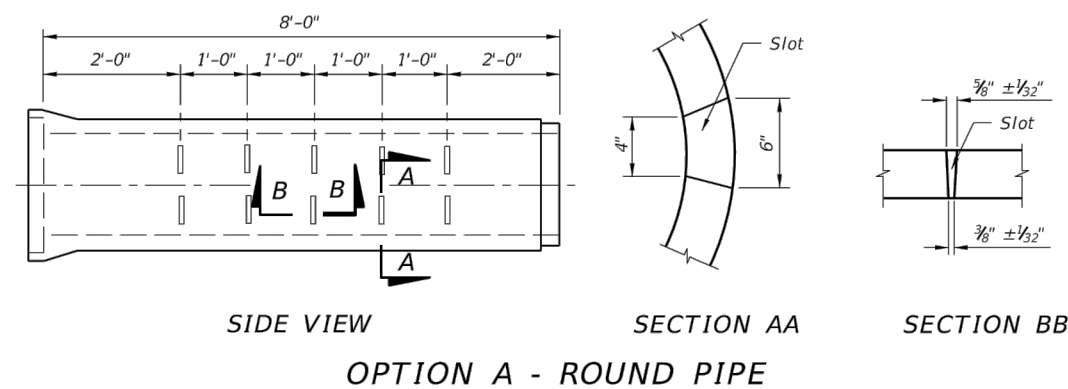
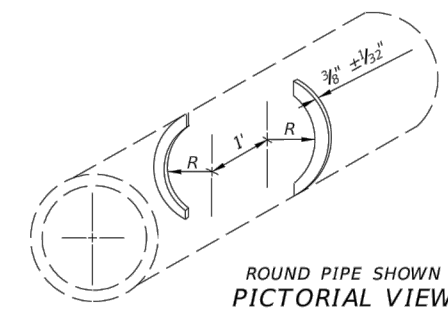
REV. 0

SHEET 44 OF 59



ELLIPTICAL PIPE		
Pipe Size	Slot Cut	
	Opening c	
	Min.	Max.
14"x23"	10"	12"
19"x30"	14"	16"
24"x38"	14"	16"
29"x45"	20"	22"
34"x53"	20"	22"
38"x60"	20"	22"

ROUND PIPE		
Pipe Size	Slot Cut	
	Opening c	
	Min.	Max.
15"	12"	14"
18"	12"	14"
24"	16"	18"
30"	16"	18"
36"	22"	24"
42"	22"	24"
48"	22"	24"
54"	24"	26"
60"	24"	26"
66"	24"	26"
72"	24"	26"



SLOTTED PIPE OPTIONS

LAST REVISION 07/01/07	DESCRIPTION:	2015 DESIGN STANDARDS	FRENCH DRAIN	INDEX NO. 285	SHEET NO. 2 of 2
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 FLORIDA REGISTRATION NO.: 70092



TRACTOR ROAD IMPROVEMENTS
 FRENCH DRAIN DETAILS

SCALE: HORIZ. N/A VERT. N/A	PROJECT NO. 11048	REV. 0
SHEET 45 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.

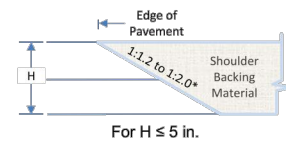


FIGURE NO. 1

EQUIPMENT

A. ASPHALT CONCRETE PAVEMENT (AC)
 UTILIZE AN APPROVED SAFETY EDGE(SM) SYSTEM TO CREATE A SLOPED PROFILE ONTO THE ROADWAY SHOULDER. UTILIZE AN 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.

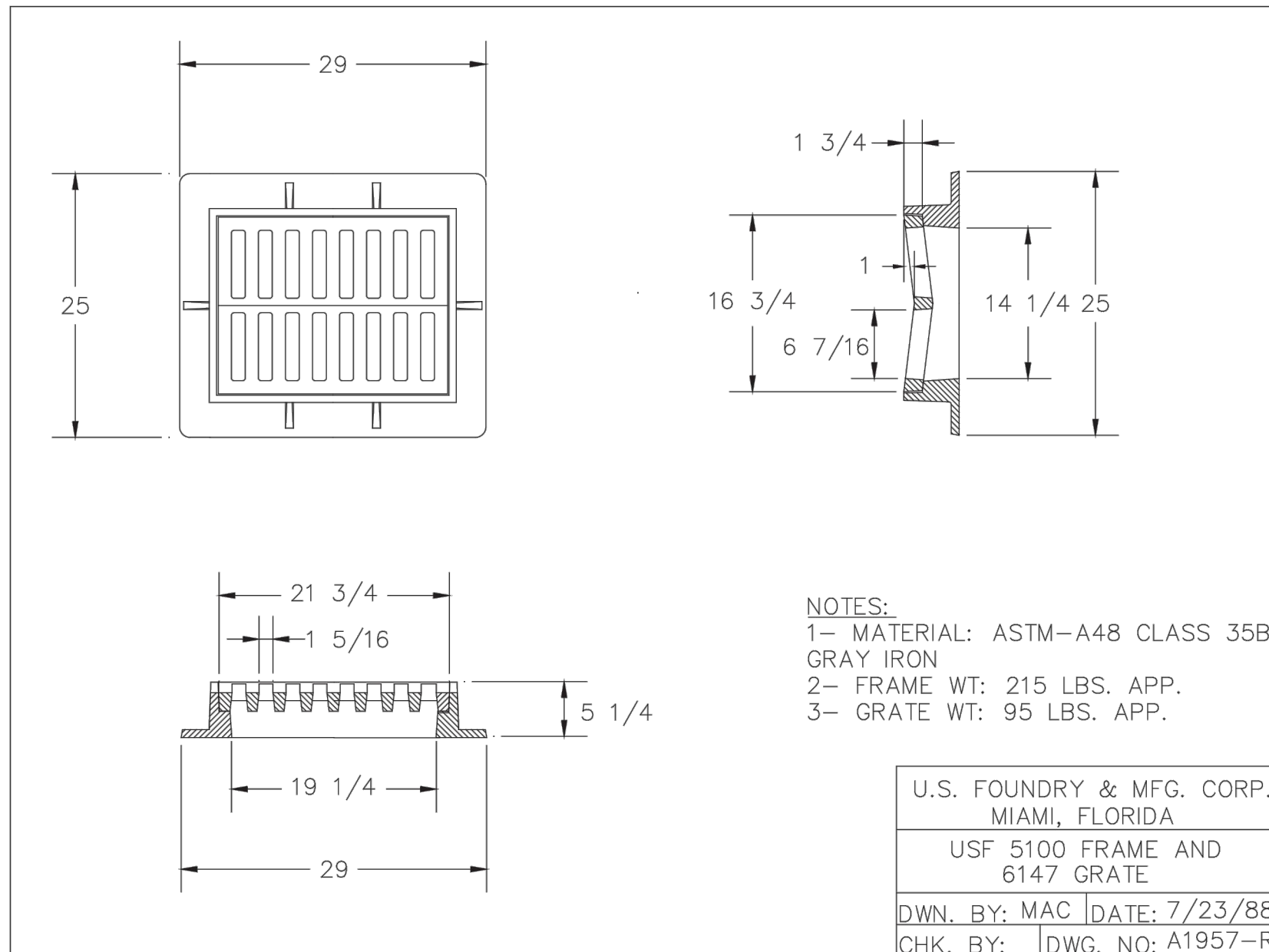
METHOD OF MEASUREMENT

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

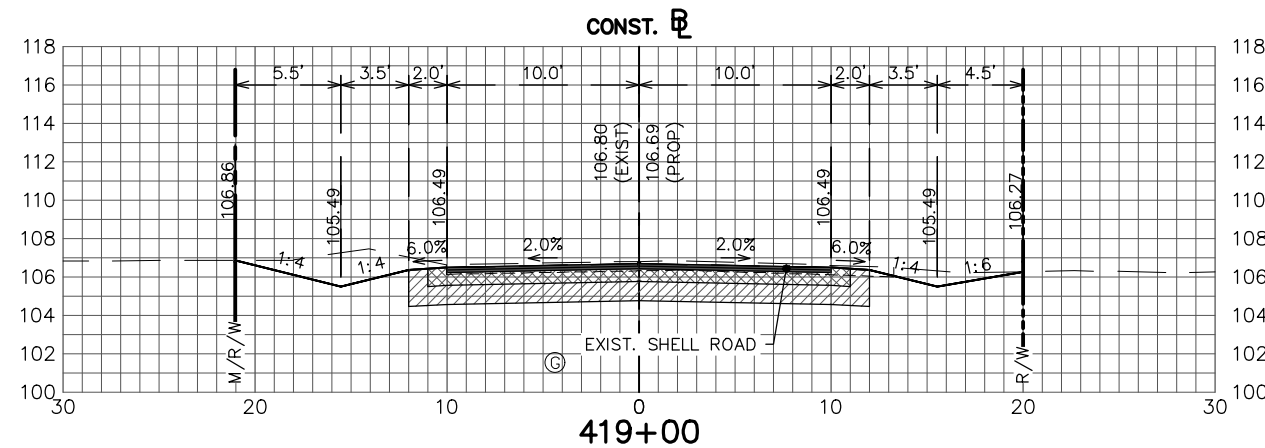
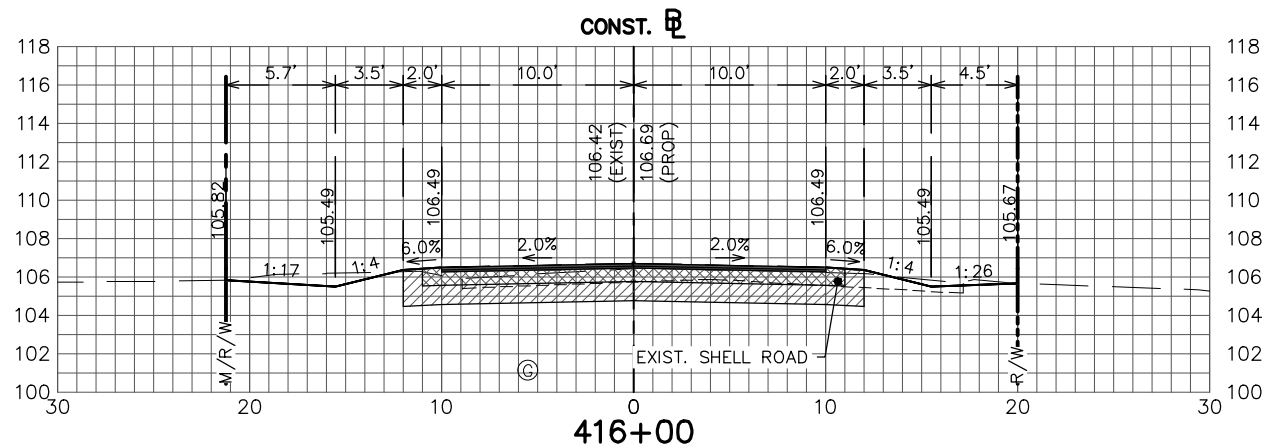
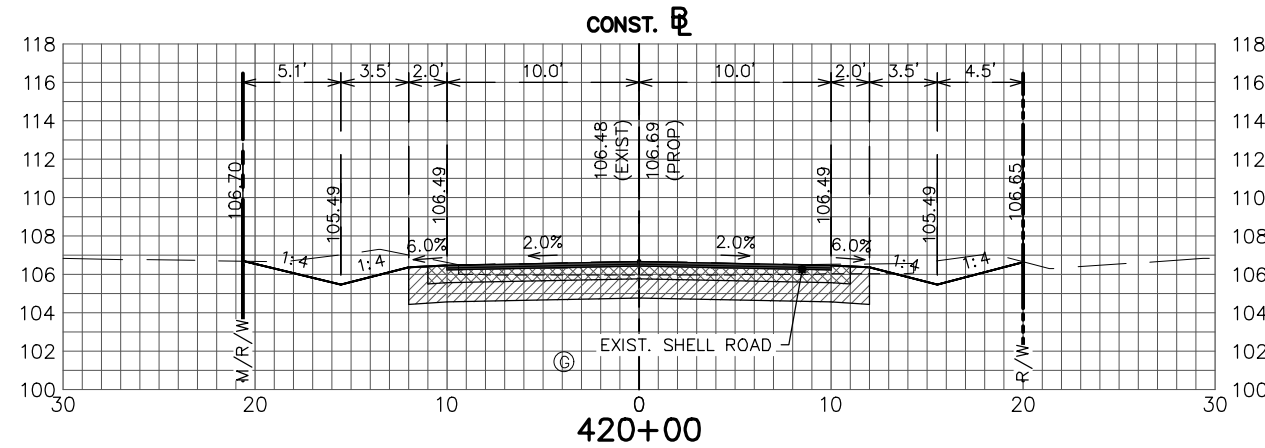
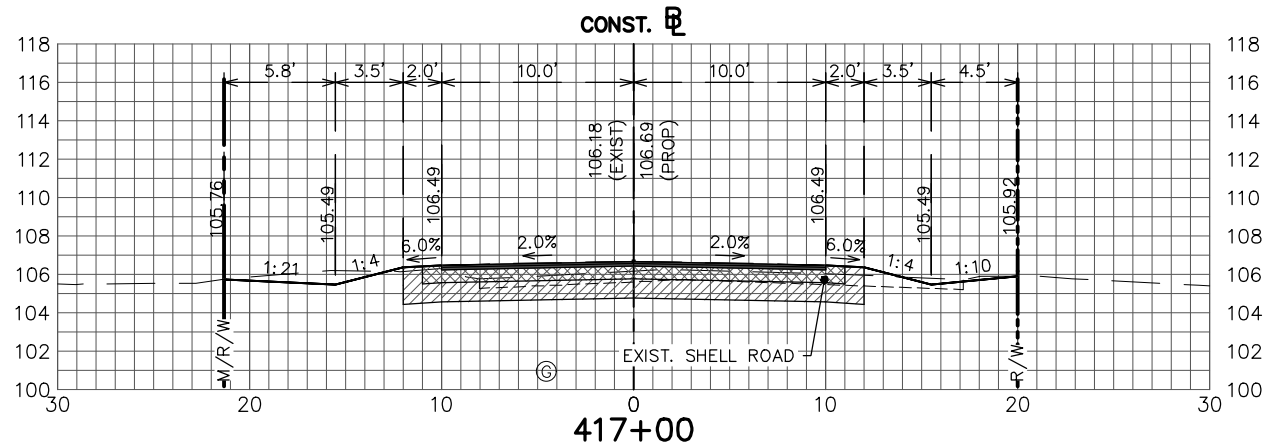
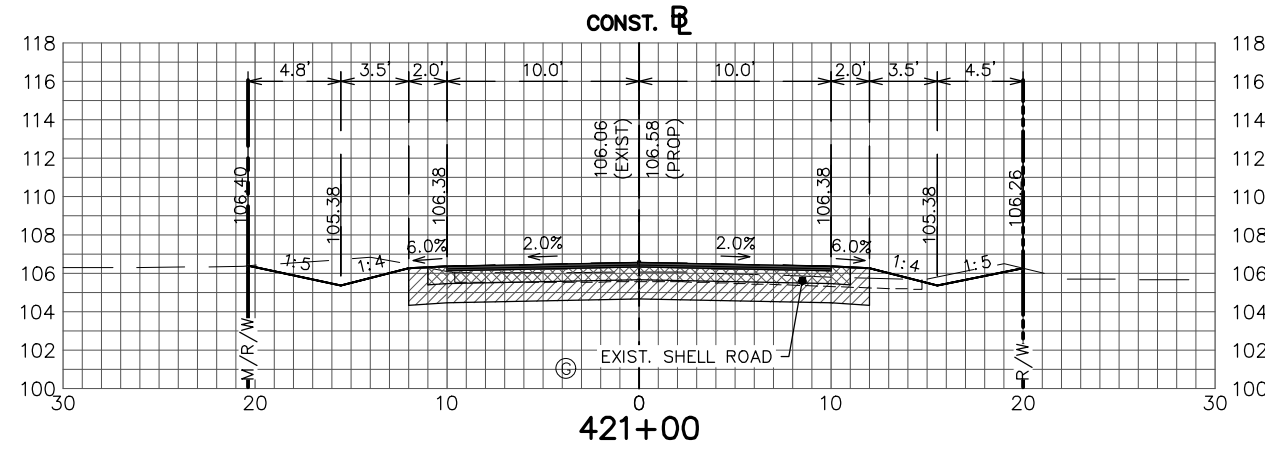
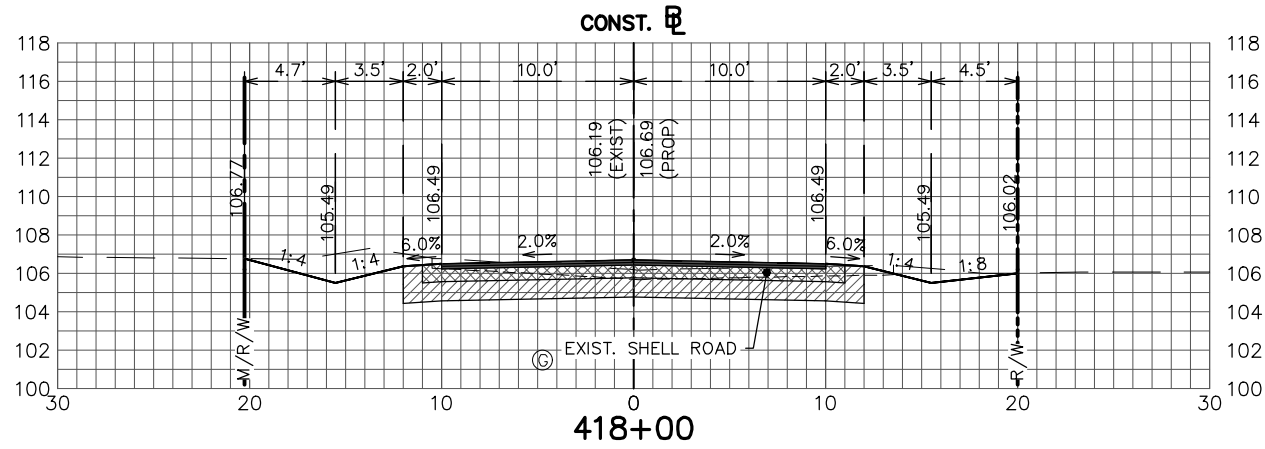


NOTES:

- 1- MATERIAL: ASTM-A48 CLASS 35B GRAY IRON
- 2- FRAME WT: 215 LBS. APP.
- 3- GRATE WT: 95 LBS. APP.

U.S. FOUNDRY & MFG. CORP. MIAMI, FLORIDA	
USF 5100 FRAME AND 6147 GRATE	
DWN. BY: MAC	DATE: 7/23/88
CHK. BY:	DWG. NO: A1957-R

<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS		DATE	BY							<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> </tr> <tr> <td> </td> </tr> <tr> <td> </td> </tr> </tbody> </table>	DESCRIPTION				<p>STATUS</p> <p style="font-size: 24px; color: red; font-weight: bold;">FOR BID</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: 8px;">DESIGNED BY: ELIUS F. NORTELUS, P.E.</td> <td rowspan="5" style="text-align: center; vertical-align: middle;"> <p>HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870</p> </td> </tr> <tr> <td style="font-size: 8px;">DRAWN BY: DOUG NIETUBICZ</td> </tr> <tr> <td style="font-size: 8px;">CHECKED BY: KEITH BAKER, E.I.</td> </tr> <tr> <td style="font-size: 8px;">IN CHARGE: ELIUS F. NORTELUS, P.E.</td> </tr> <tr> <td style="font-size: 8px;">DATE: 3/7/2016</td> </tr> </table>	DESIGNED BY: ELIUS F. NORTELUS, P.E.	<p>HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870</p>	DRAWN BY: DOUG NIETUBICZ	CHECKED BY: KEITH BAKER, E.I.	IN CHARGE: ELIUS F. NORTELUS, P.E.	DATE: 3/7/2016		<p>TRACTOR ROAD IMPROVEMENTS</p> <p>MISCELLANEOUS. DETAILS</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">SCALE: HORIZ. N/A VERT. N/A</td> </tr> <tr> <td>PROJECT NO. 1104B</td> <td>REV. 0</td> </tr> <tr> <td colspan="2" style="text-align: center;">SHEET 46 OF 59</td> </tr> </table>	SCALE: HORIZ. N/A VERT. N/A		PROJECT NO. 1104B	REV. 0	SHEET 46 OF 59	
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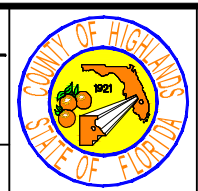
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**HIGHLANDS COUNTY
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505 S. COMMERCE AVENUE
SEBRING, FLORIDA 33870

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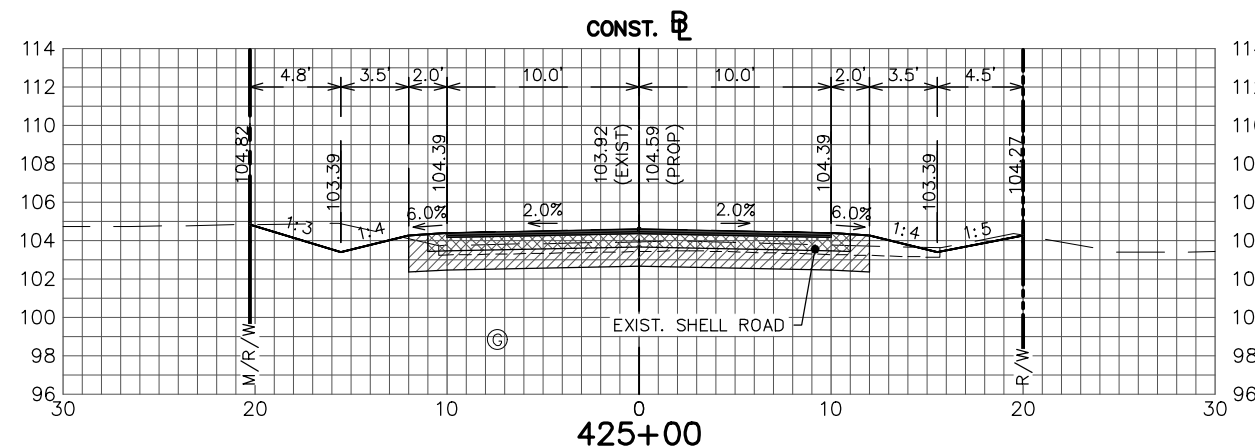
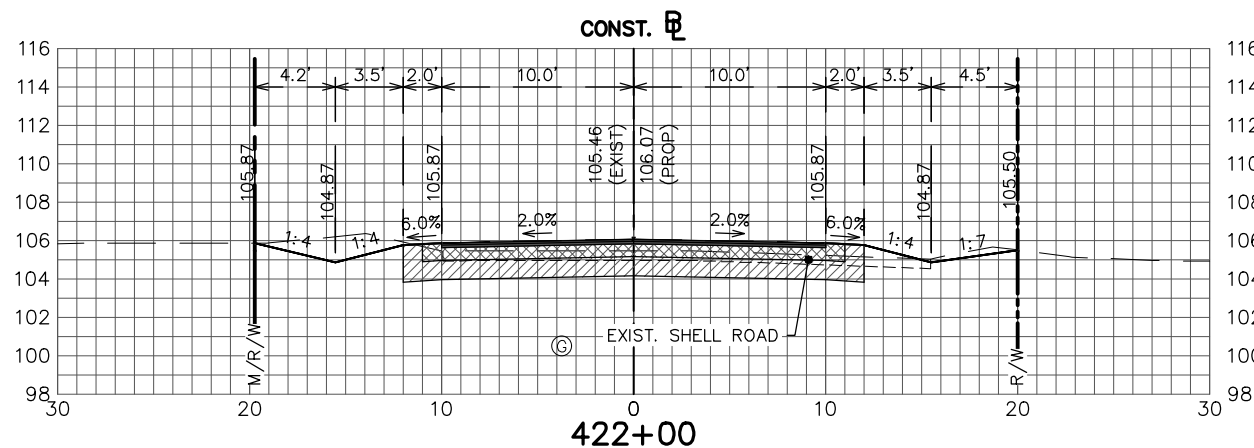
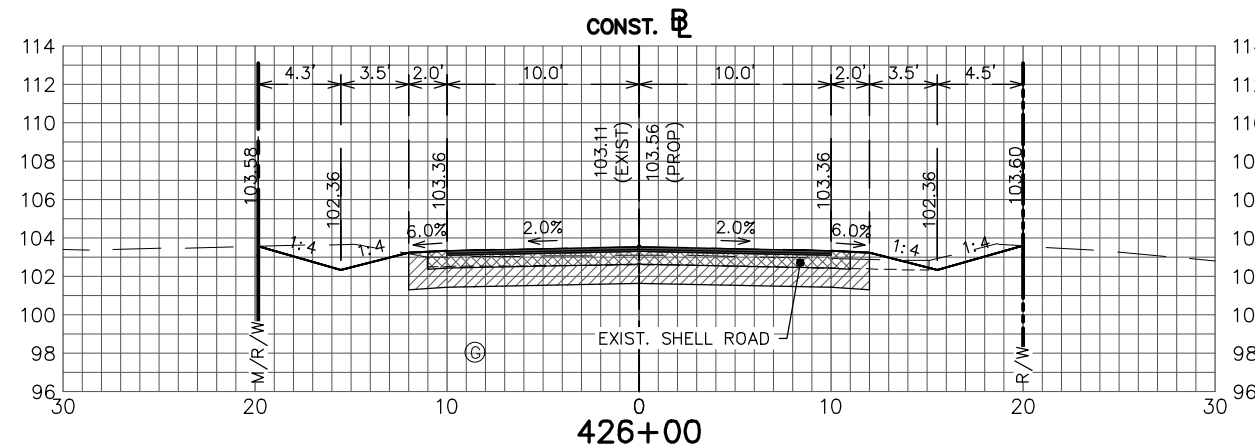
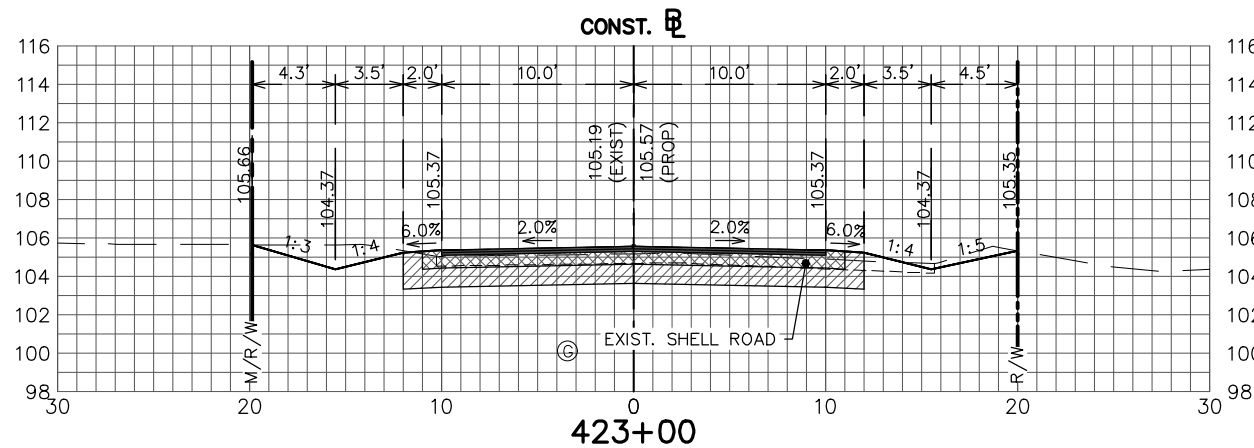
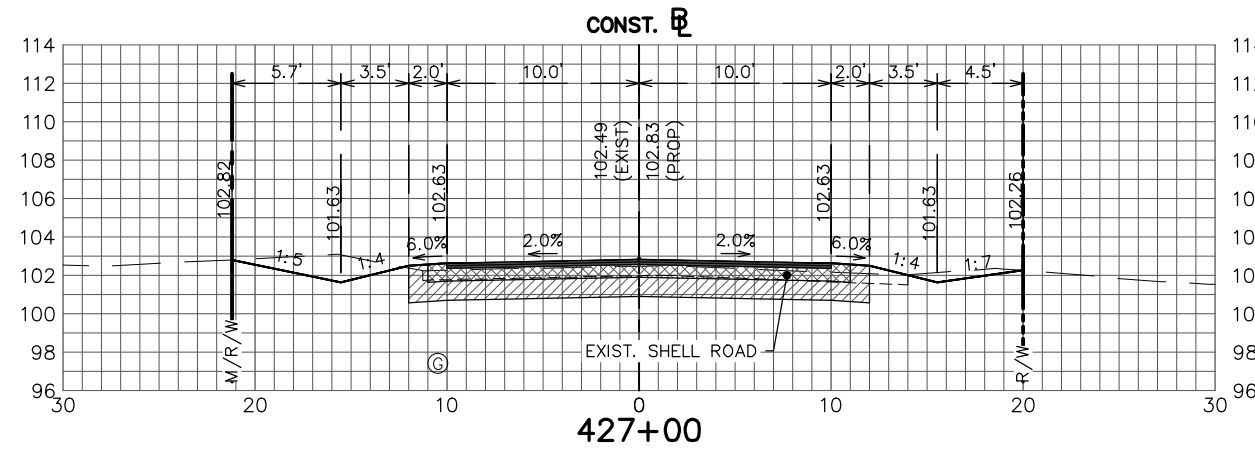
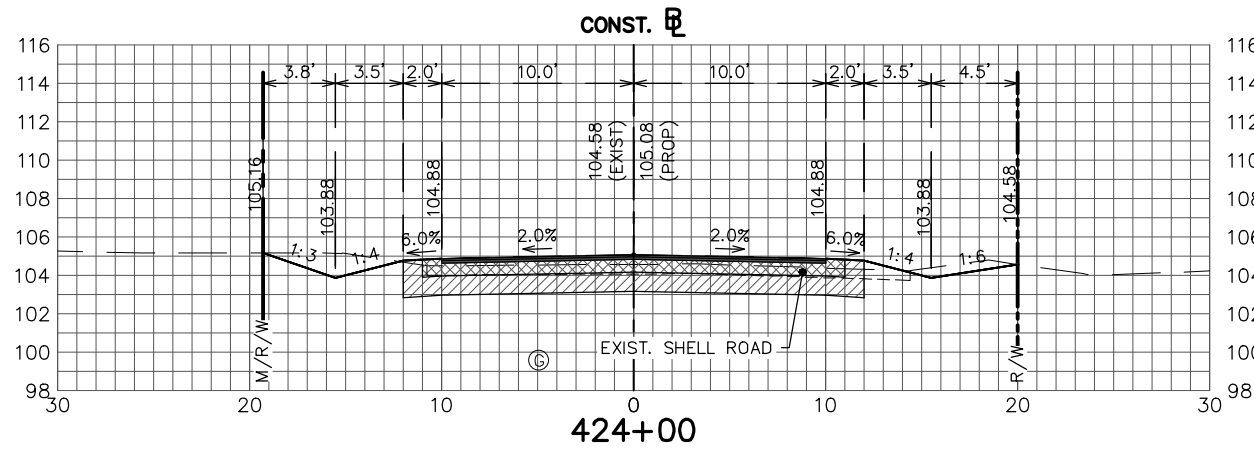
**TRACTOR ROAD
IMPROVEMENTS
CROSS SECTIONS**

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

PROJECT NO.
11048

REV.
0

SHEET 47 OF 59



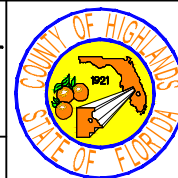
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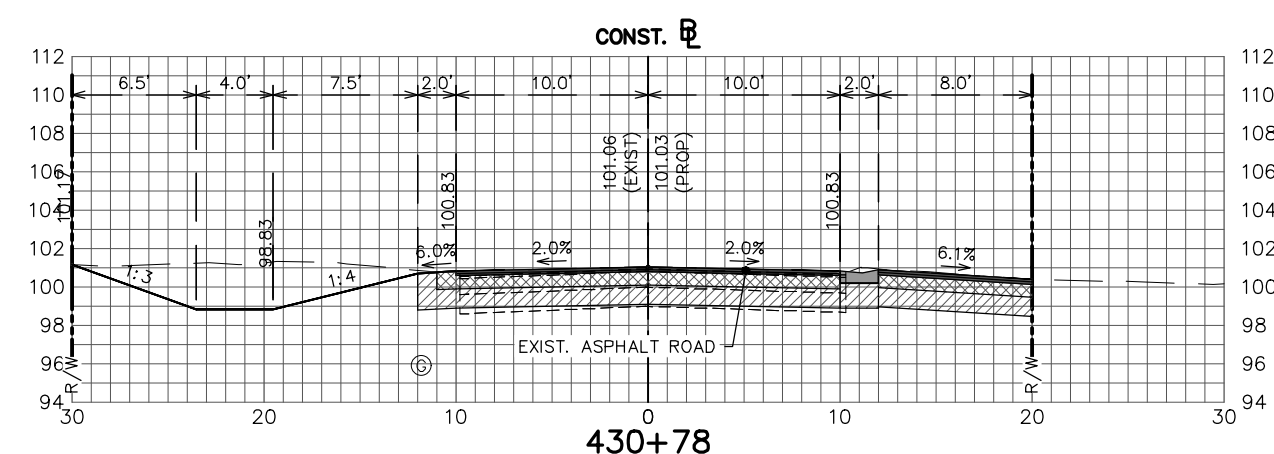
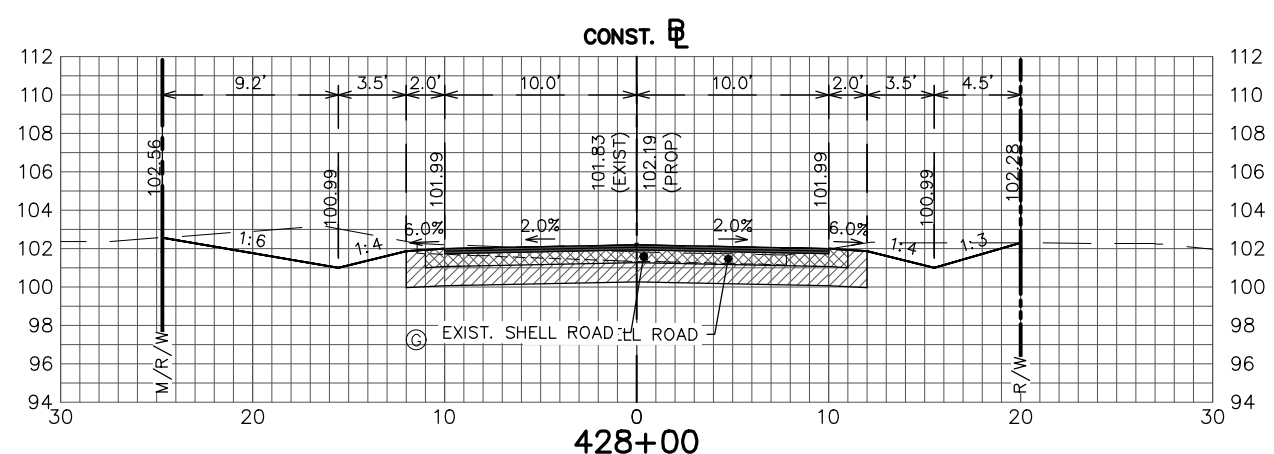
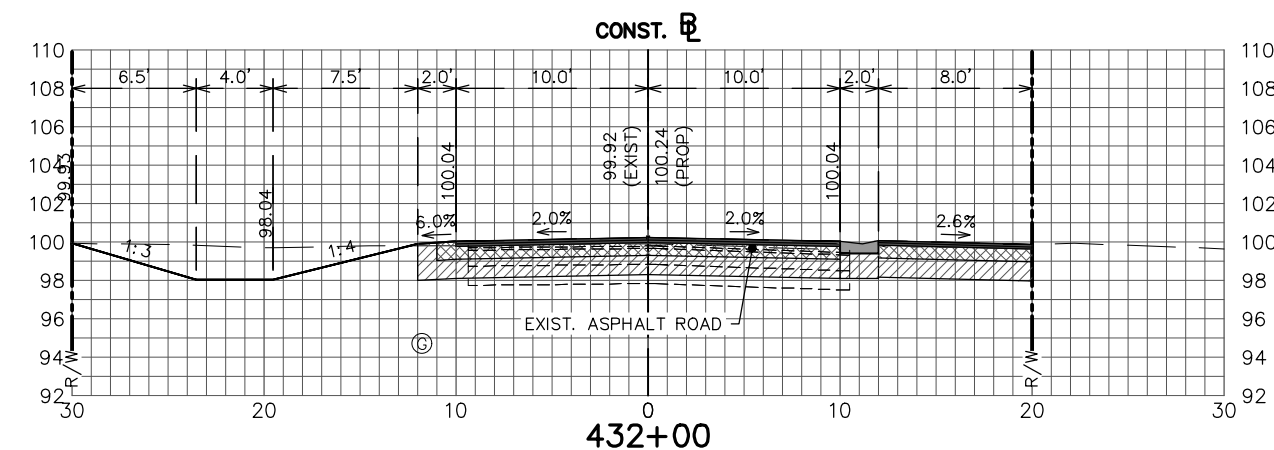
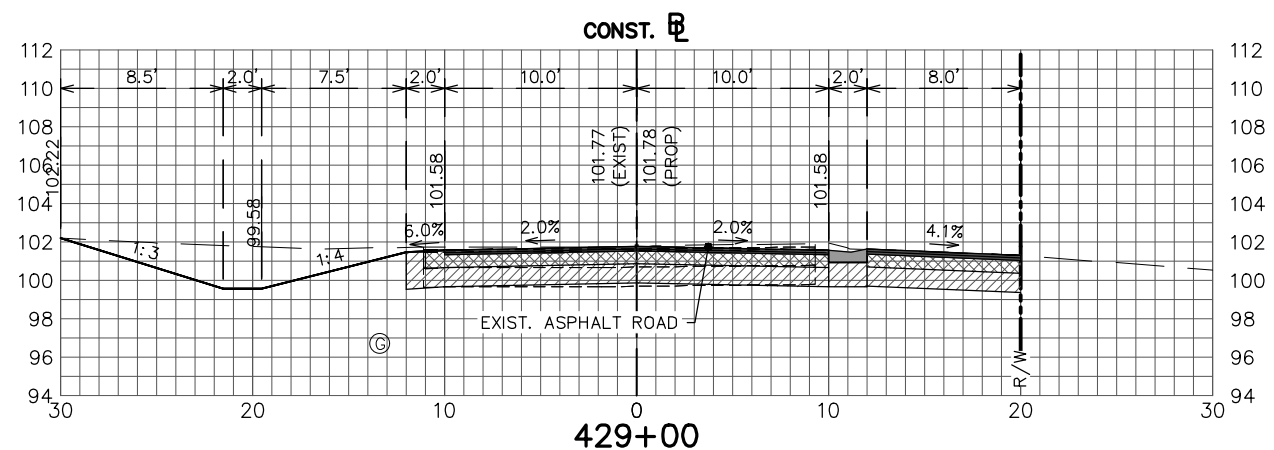
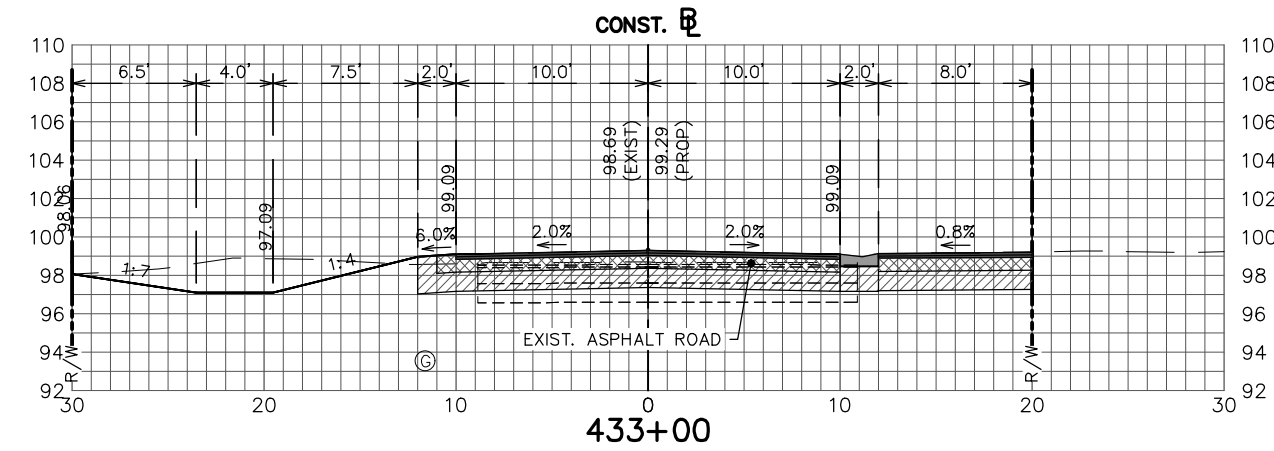
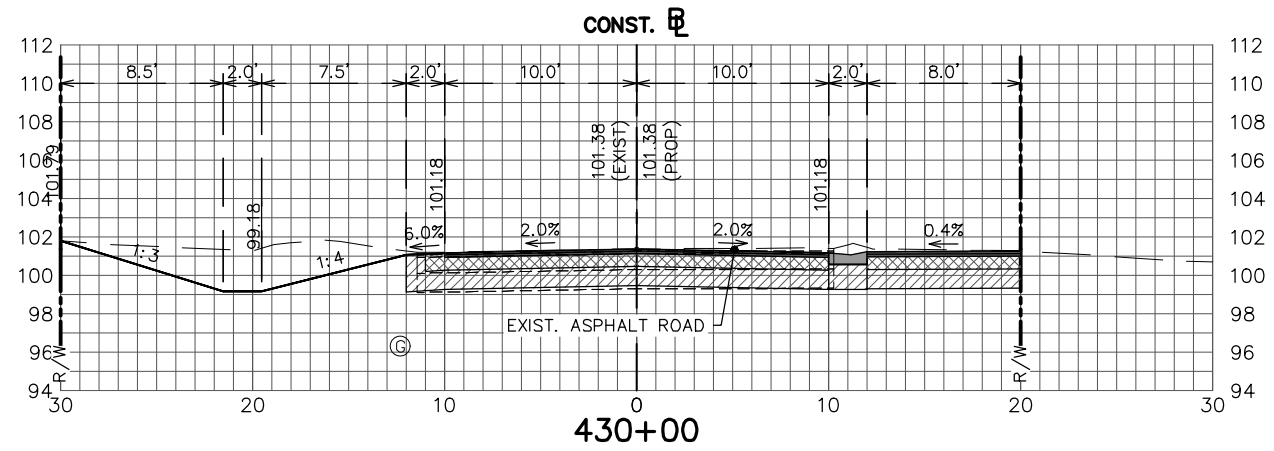
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IMPROVEMENTS
CROSS SECTIONS**

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SHEET 48 OF 59



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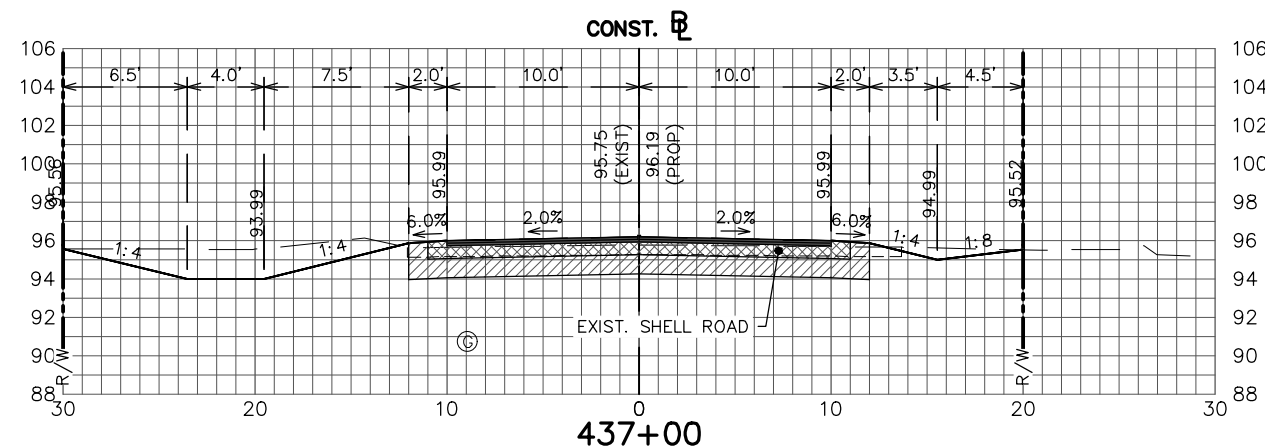
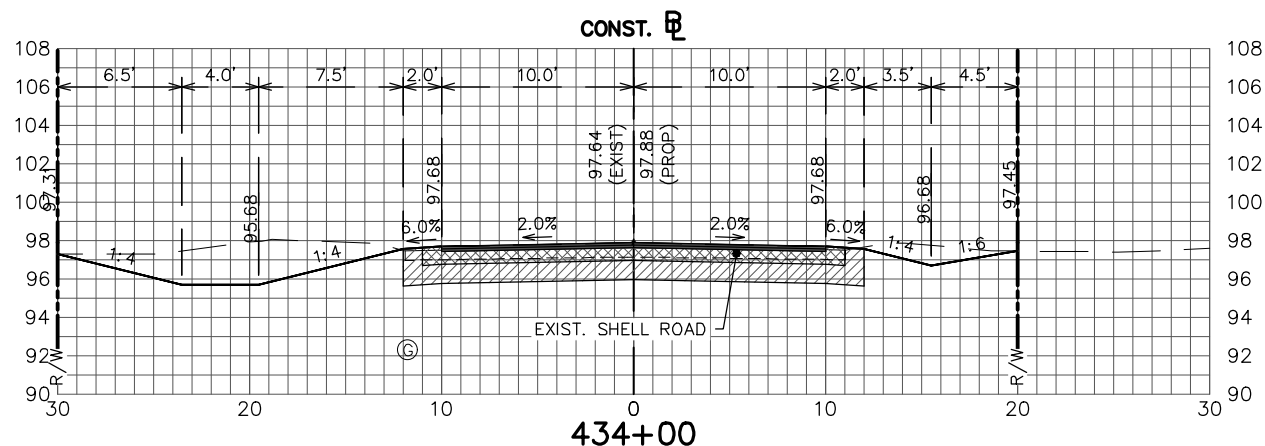
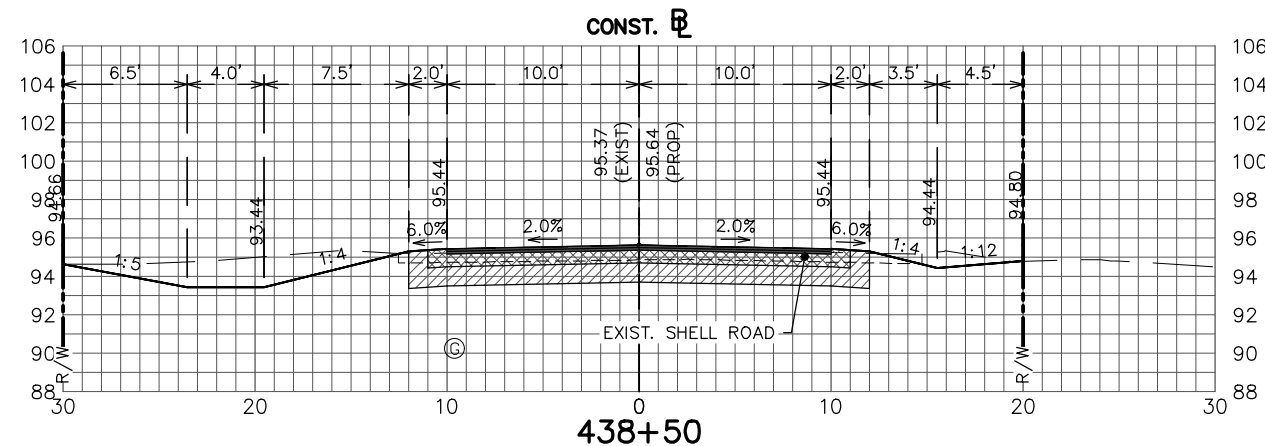
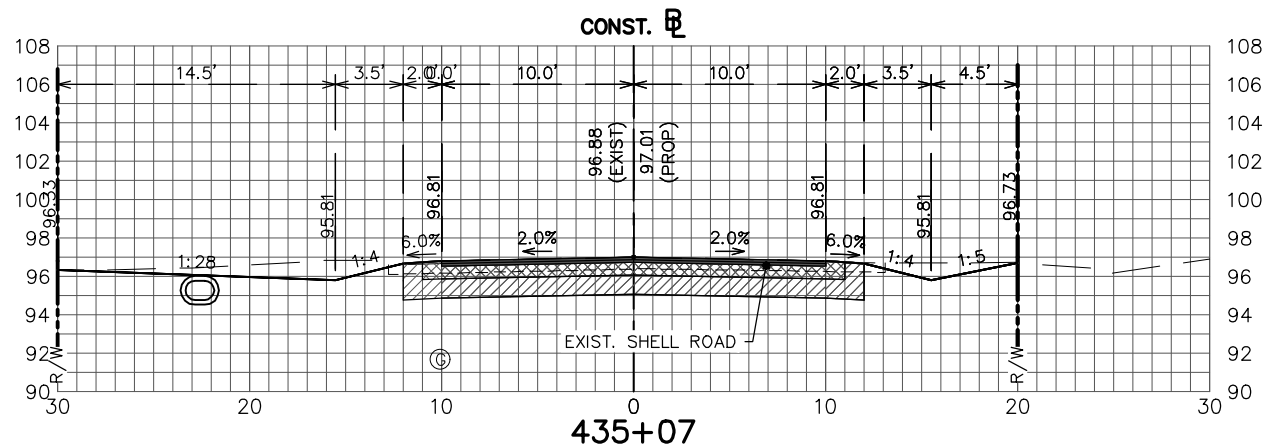
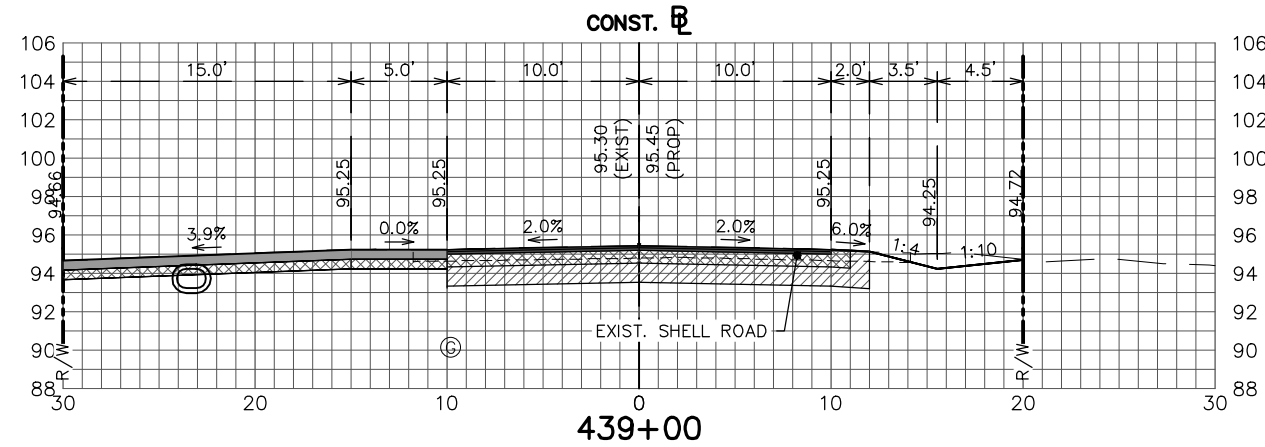
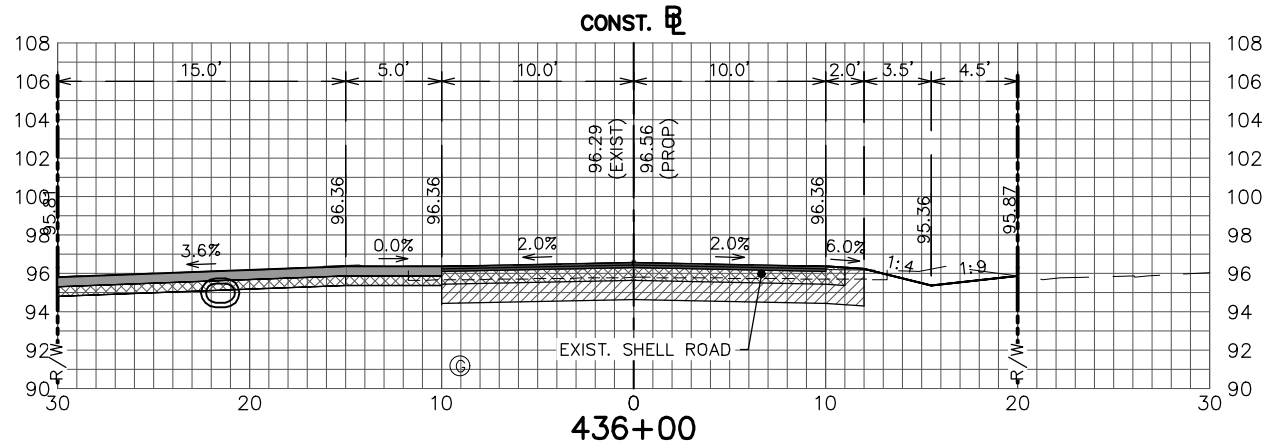
**TRACTOR ROAD
IMPROVEMENTS
CROSS SECTIONS**

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

PROJECT NO. 11048 REV. 0

SHEET 49 OF 59

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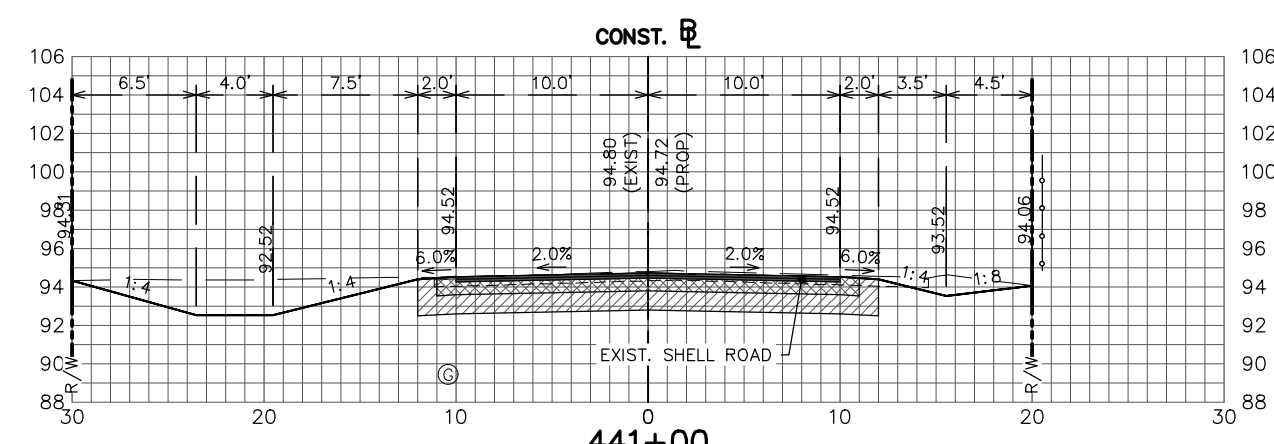
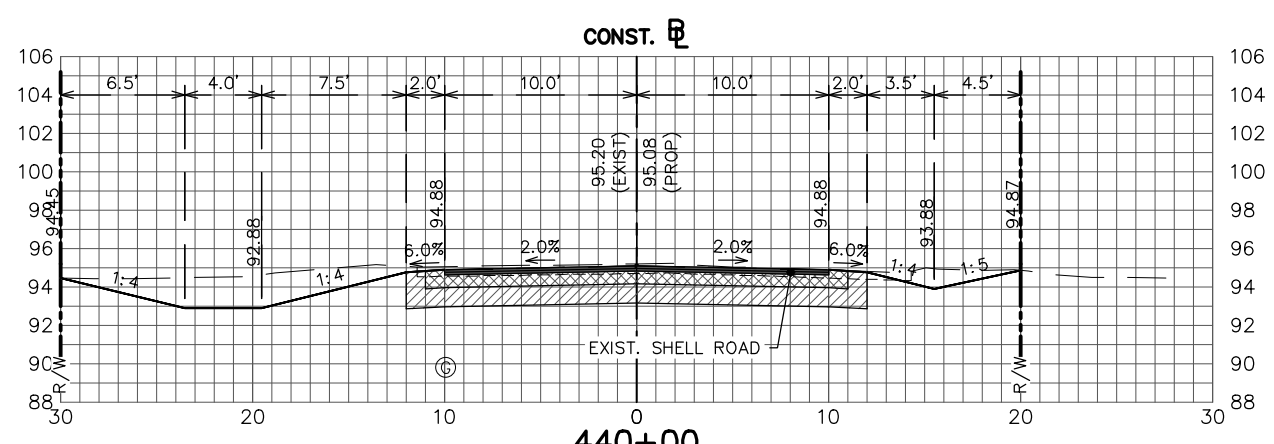
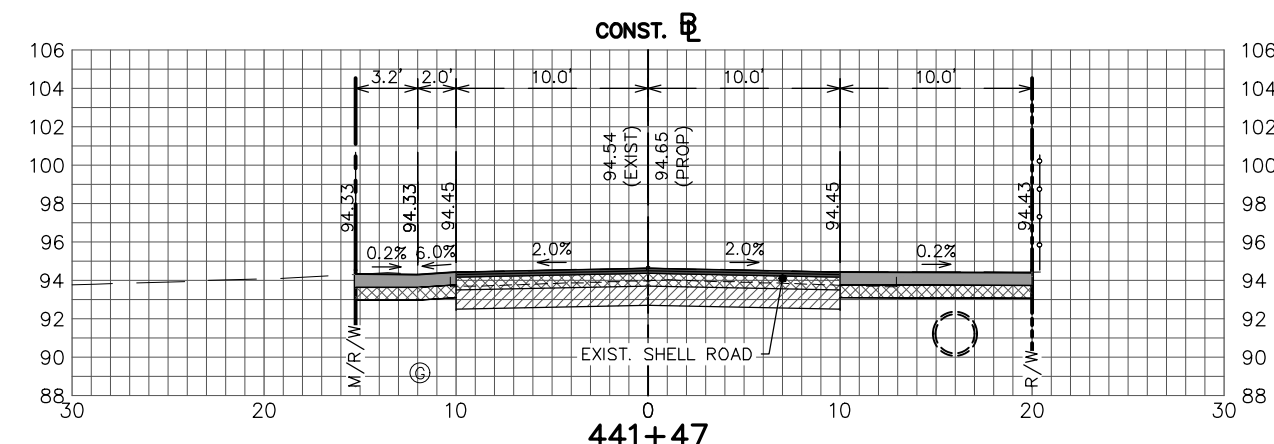
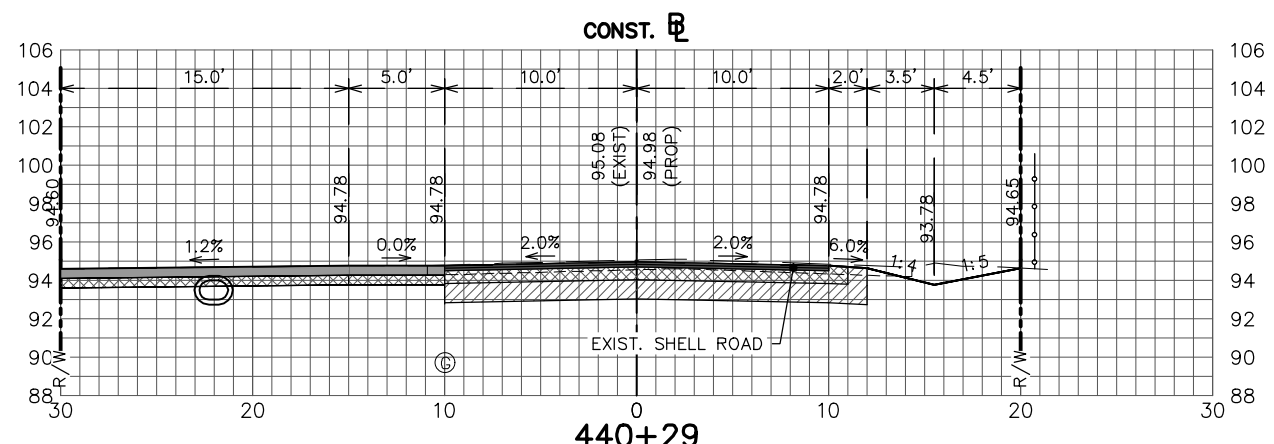
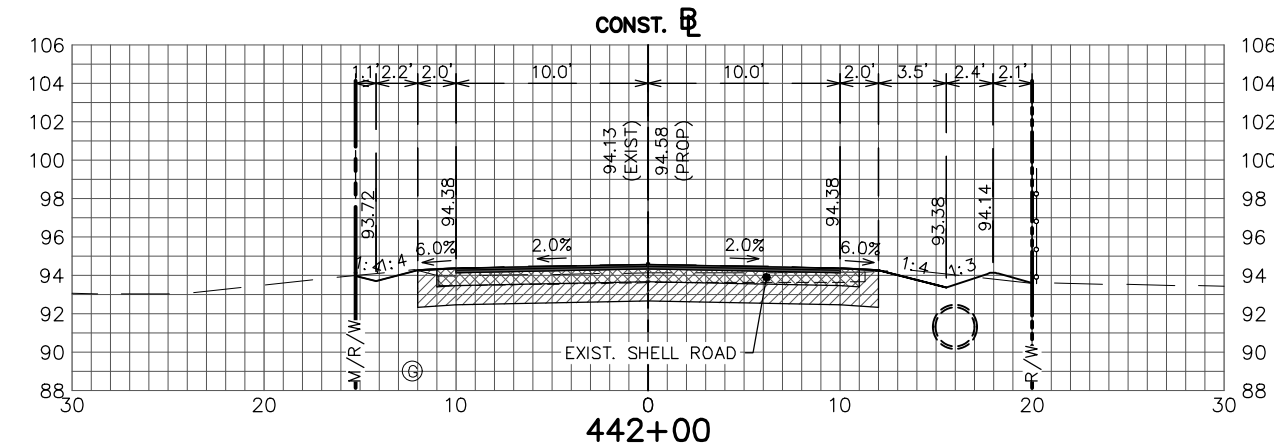
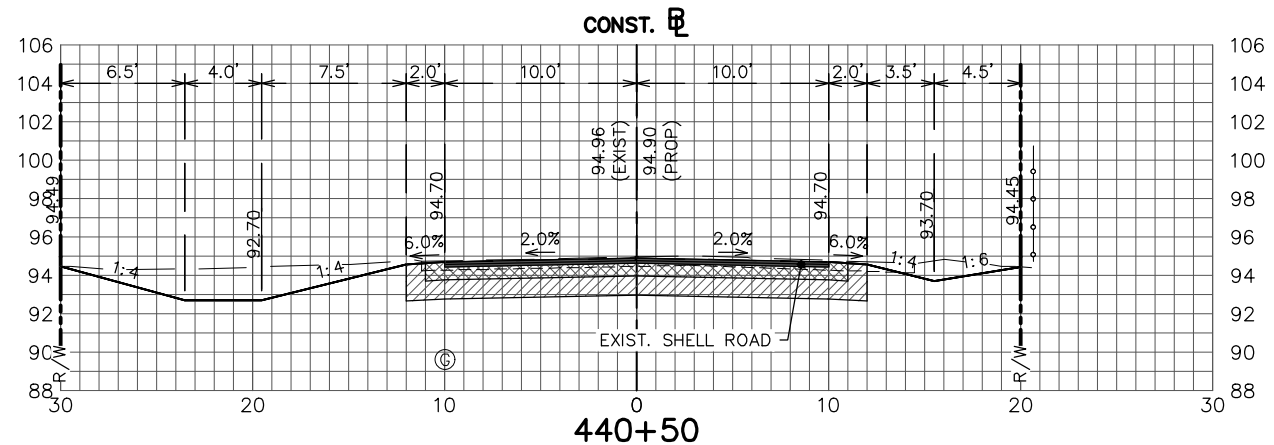
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**TRACTOR ROAD
 IMPROVEMENTS
 CROSS SECTIONS**

SCALE: HORIZ. 1"=10' VERT. 1"=10'	
PROJECT NO. 11048	REV. 0
SHEET 50 OF 59	

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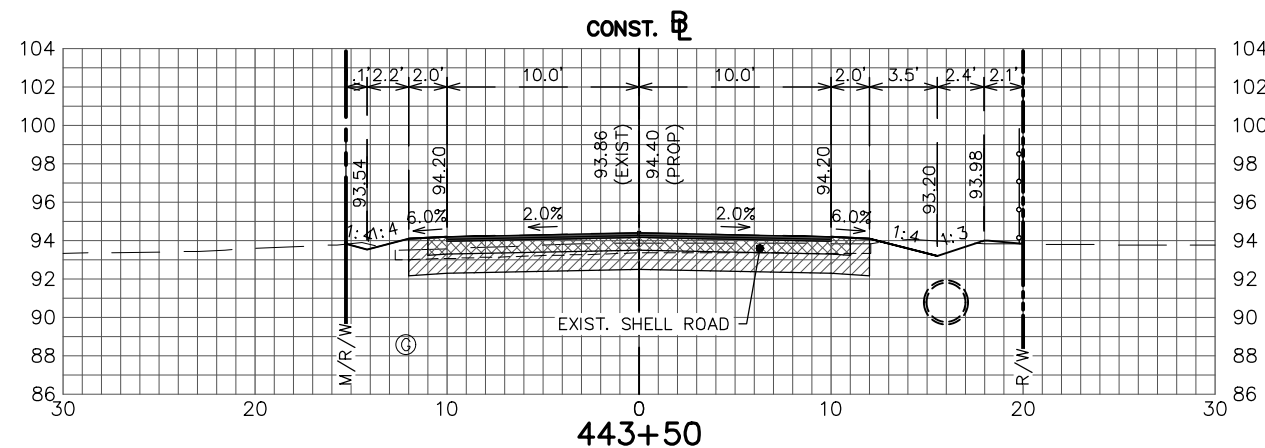
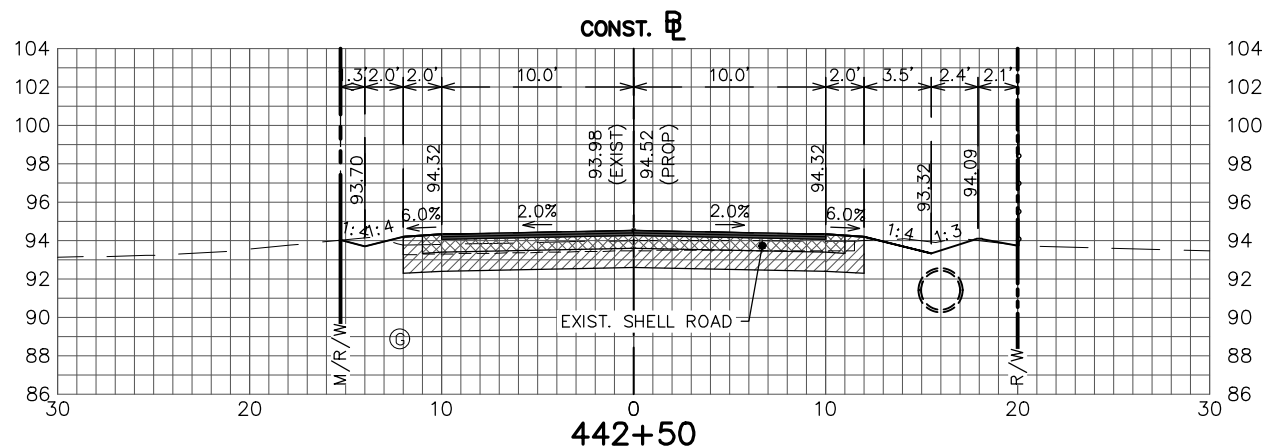
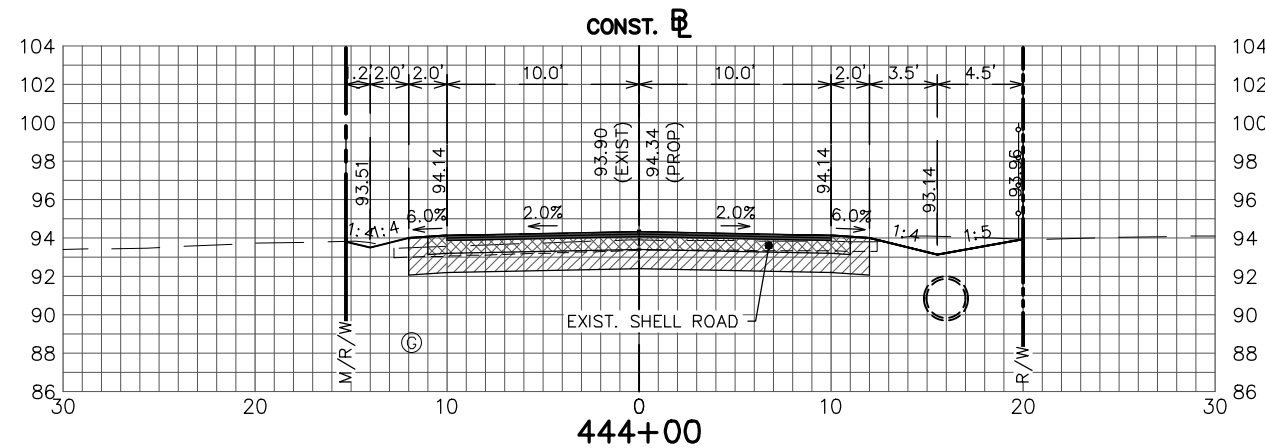
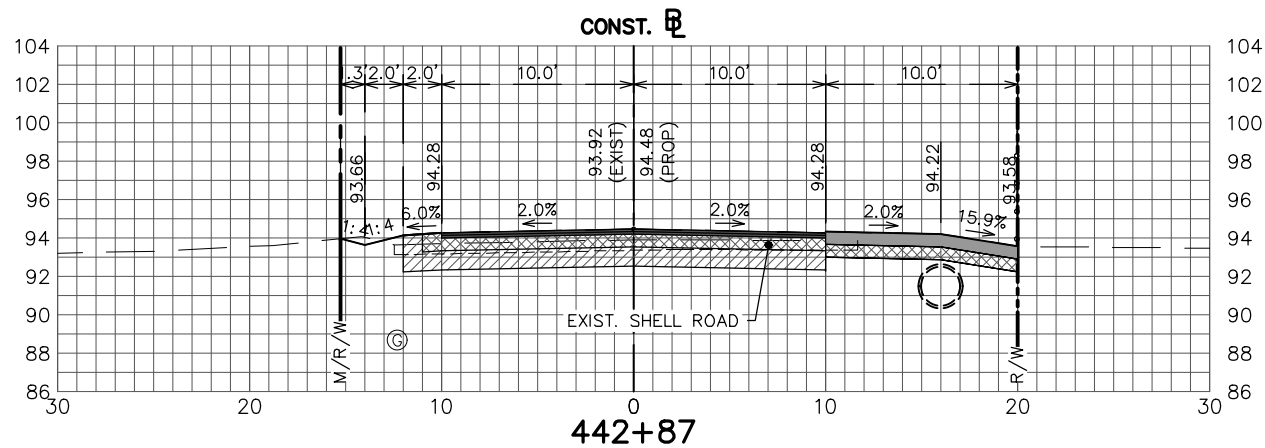
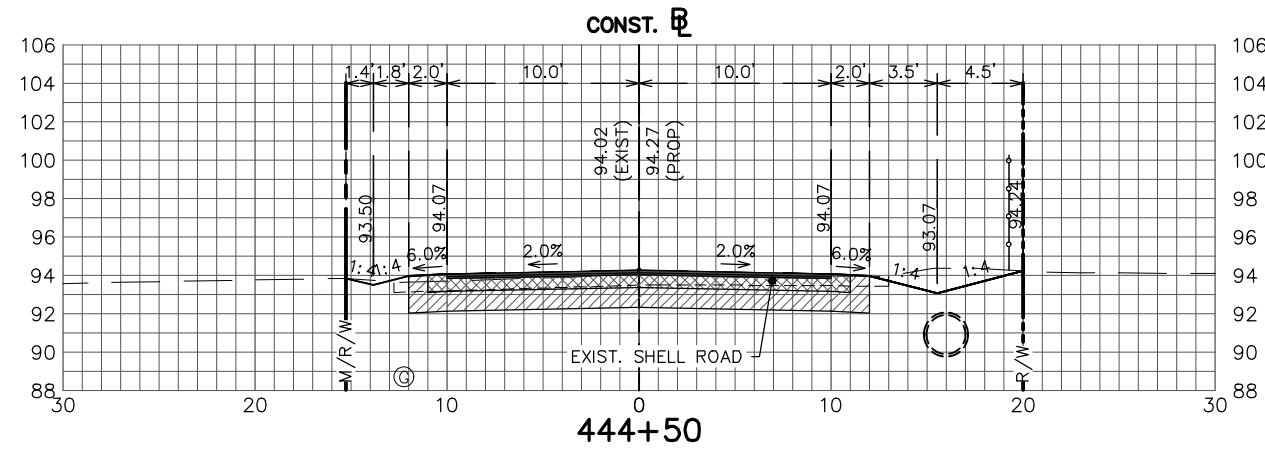
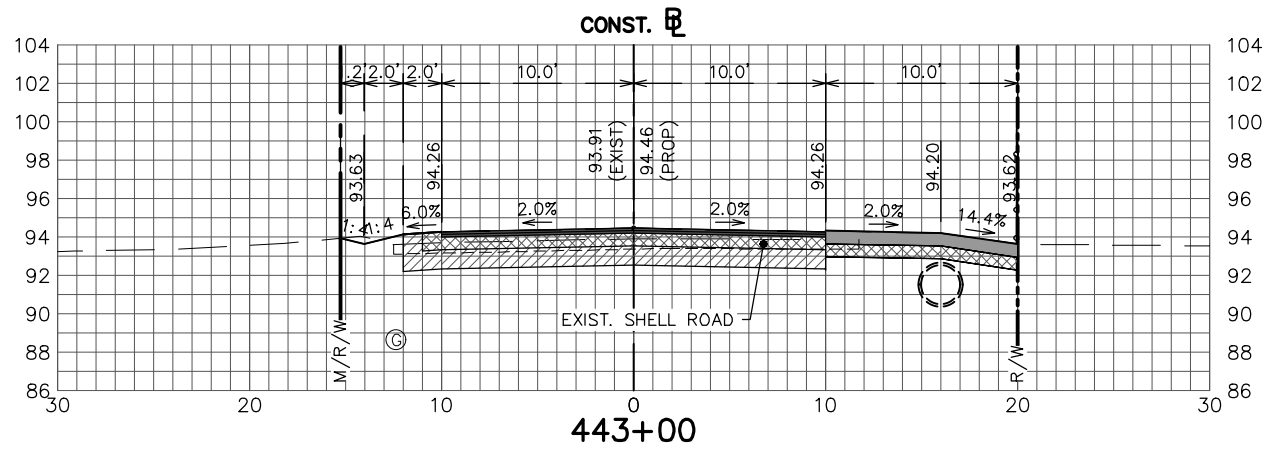
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**TRACTOR ROAD
IMPROVEMENTS
CROSS SECTIONS**

SCALE: HORIZ. 1"=10' VERT. 1"=10'	
PROJECT NO. 11048	REV. 0
SHEET 51 OF 59	

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ELIUS F. NORTELUS, P.E.

DRAWN BY:
DOUG NIETUBICZ

CHECKED BY:
KEITH BAKER, E.I.

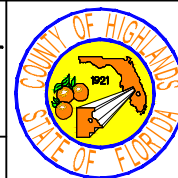
IN CHARGE:
ELIUS F. NORTELUS, P.E.

DATE:
3/7/2016

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

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

DATE:



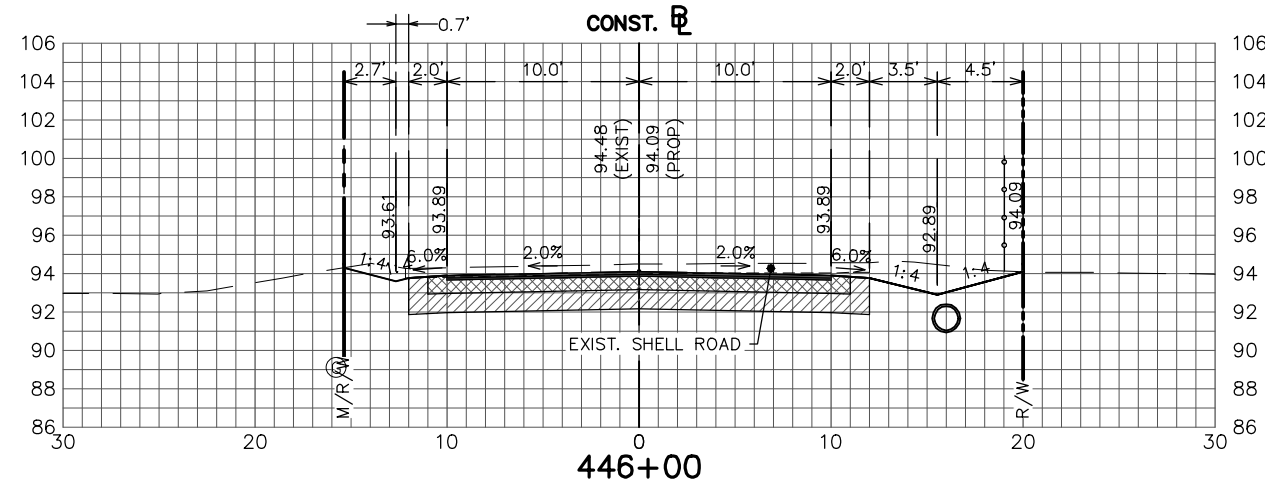
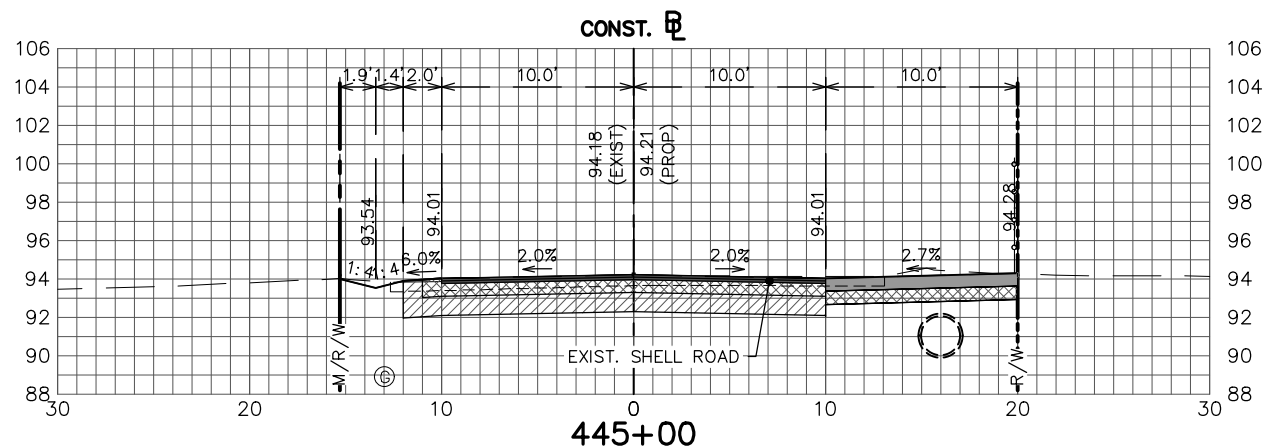
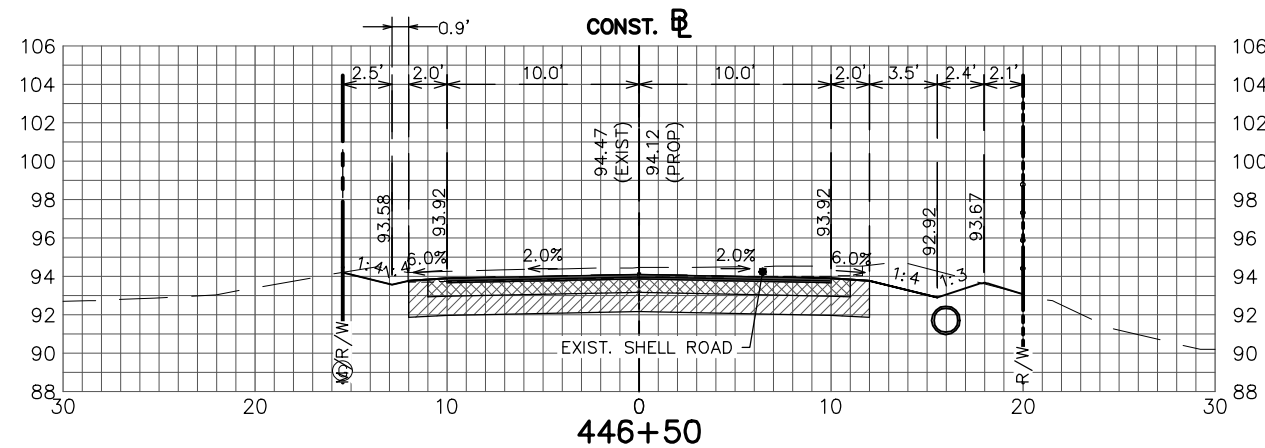
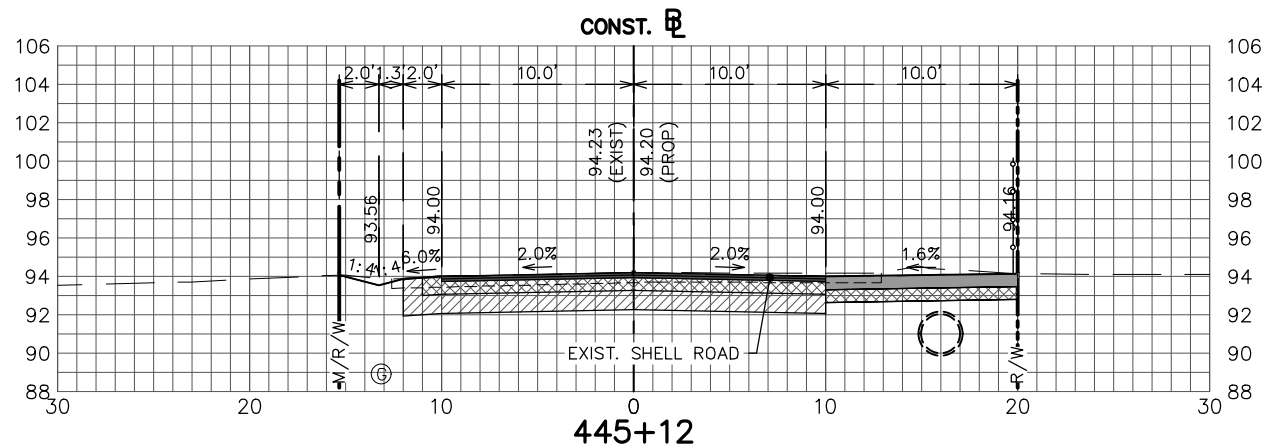
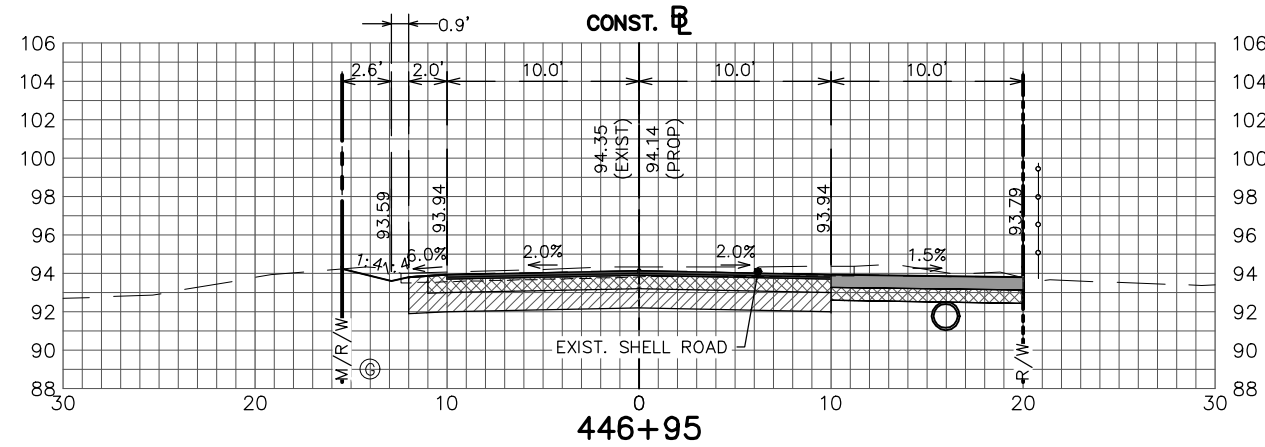
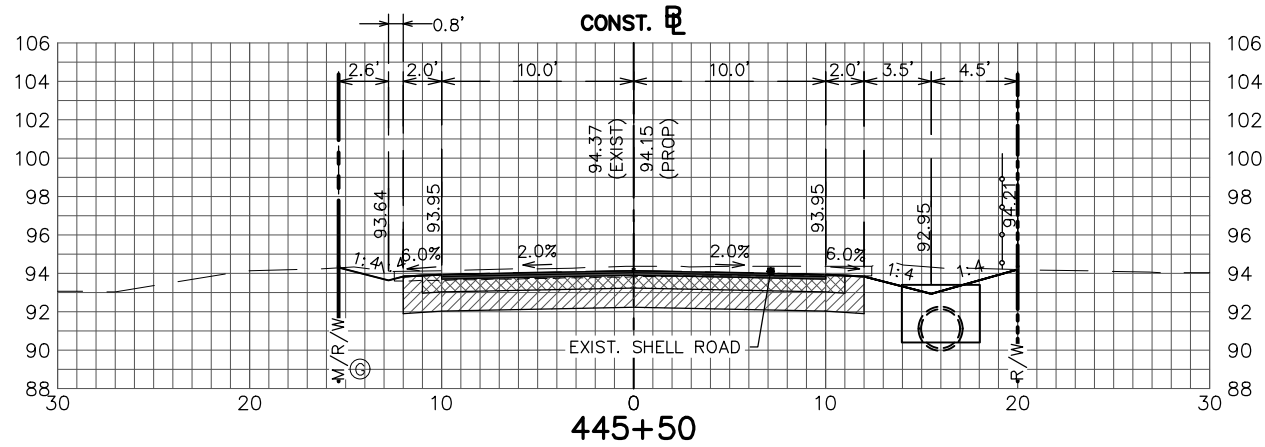
**TRACTOR ROAD
IMPROVEMENTS
CROSS SECTIONS**

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

PROJECT NO.
11048

REV.
0

SHEET 52 OF 59

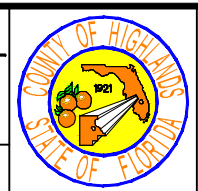


REVISIONS			STATUS	DESIGNED BY: ELIUS F. NORTELUS, P.E.
DATE	BY	DESCRIPTION		
			FOR BID	DRAWN BY: DOUG NIETUBICZ CHECKED BY: KEITH BAKER, E.I. IN CHARGE: ELIUS F. NORTELUS, P.E. DATE: 3/7/2016

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SEBRING, FLORIDA 33870

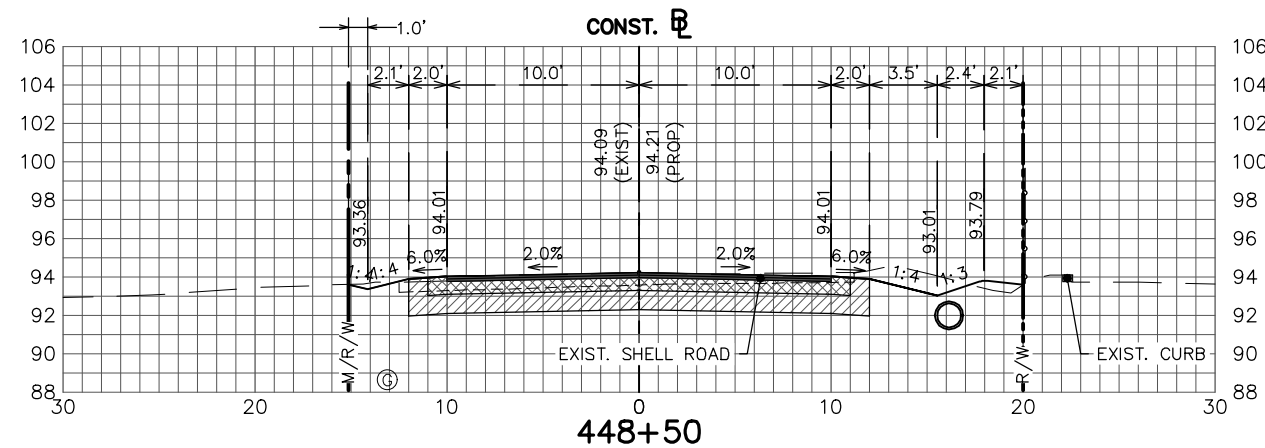
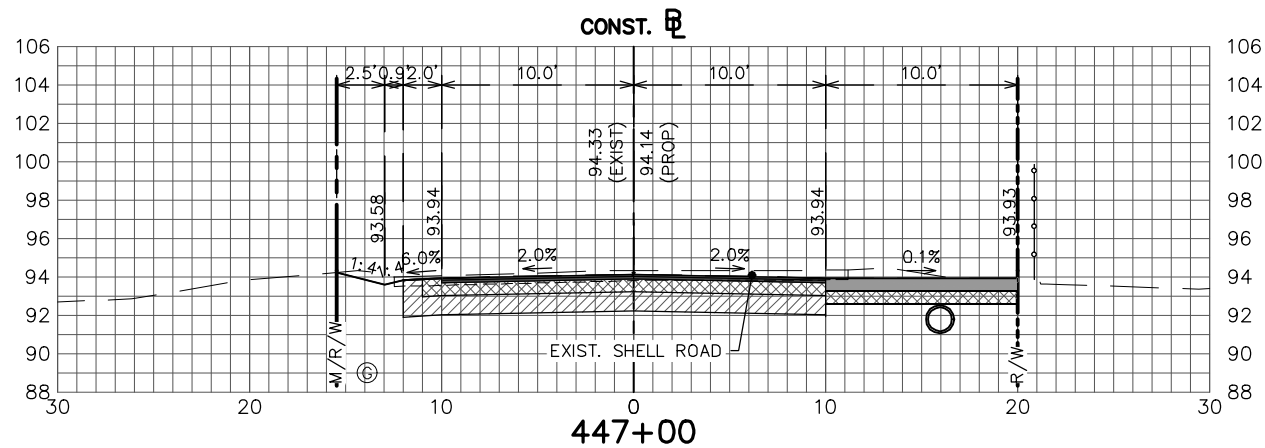
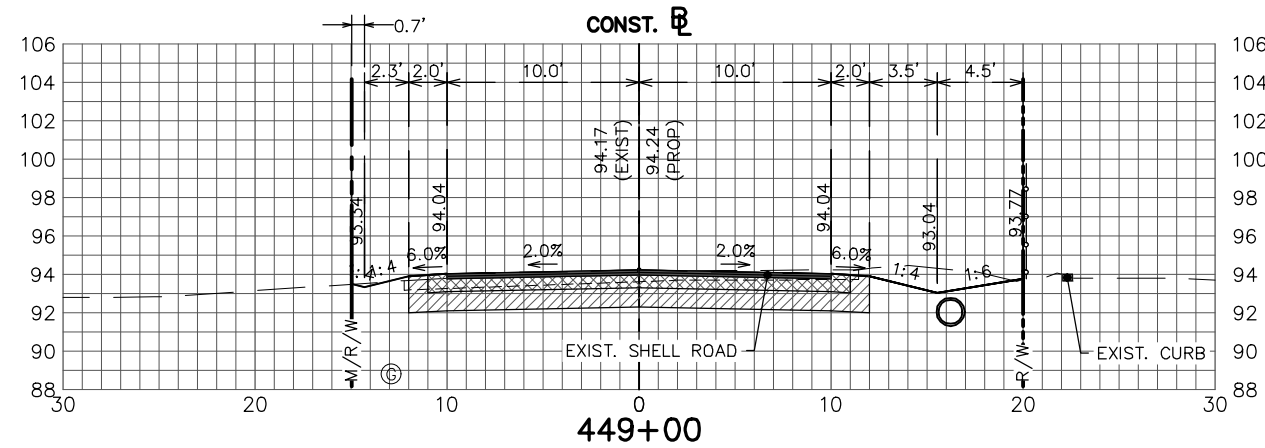
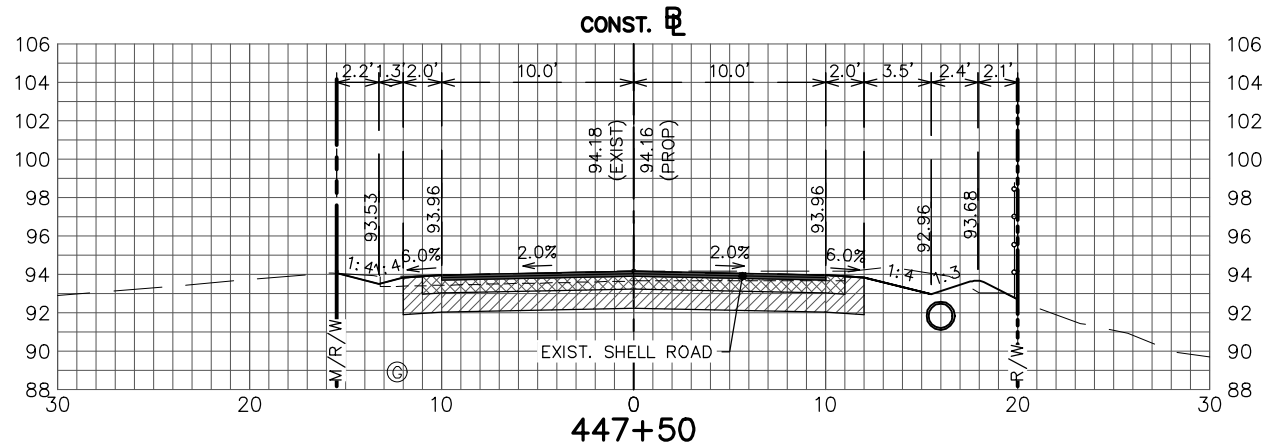
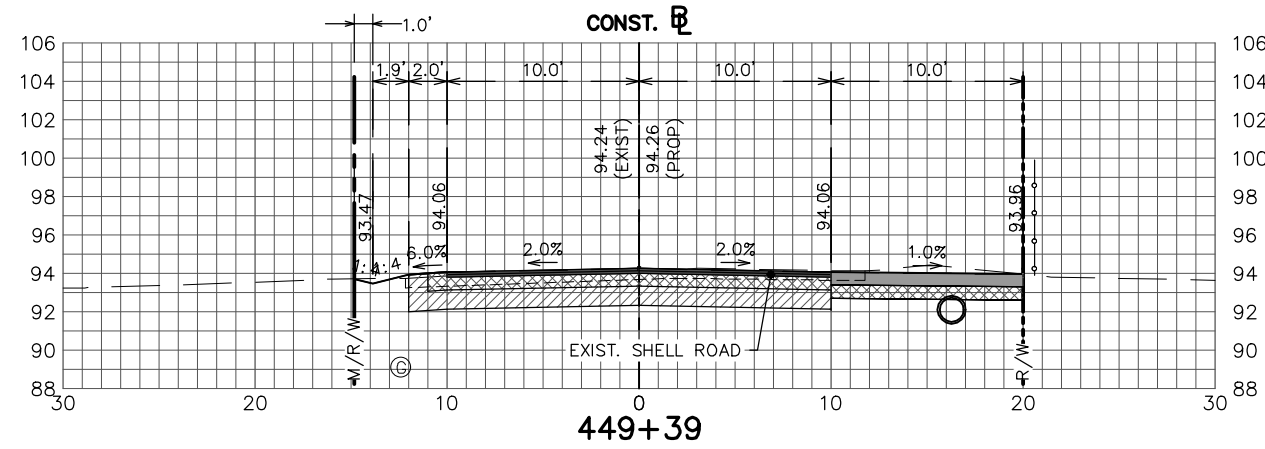
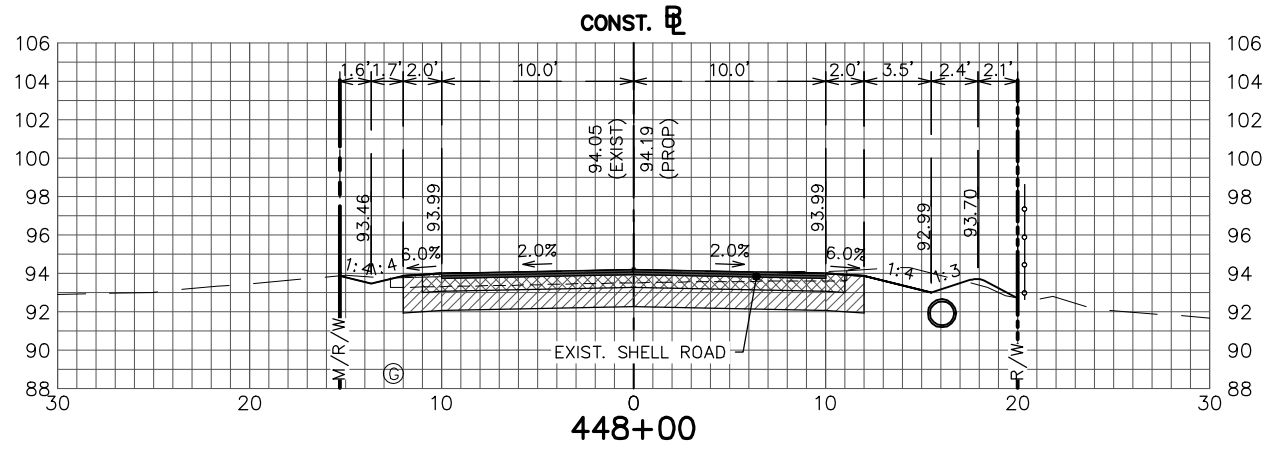
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**TRACTOR ROAD
IMPROVEMENTS
CROSS SECTIONS**

SCALE: HORIZ. 1"=10' VERT. 1"=10'	
PROJECT NO. 11048	REV. 0
SHEET 53 OF 59	

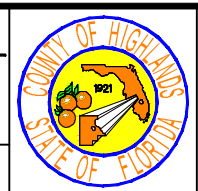


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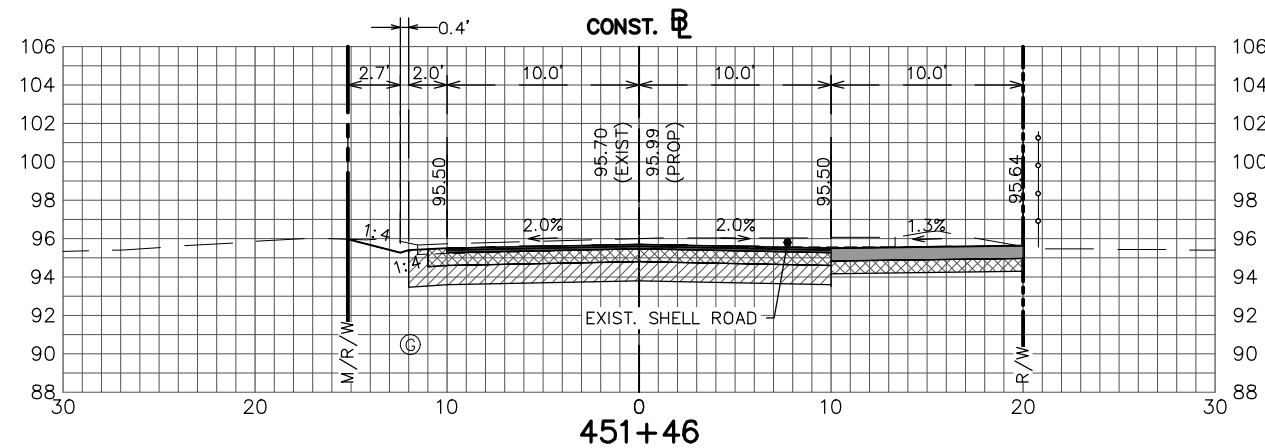
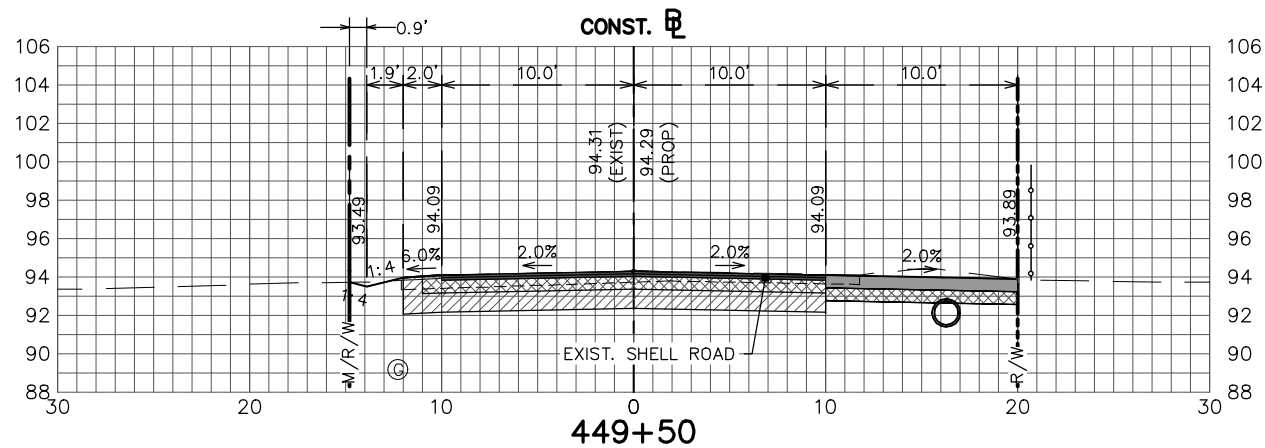
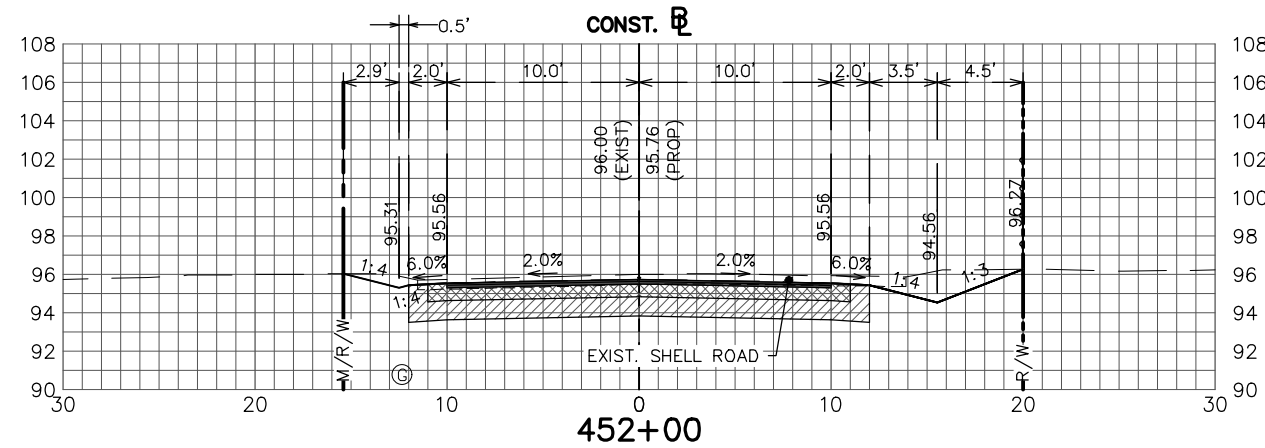
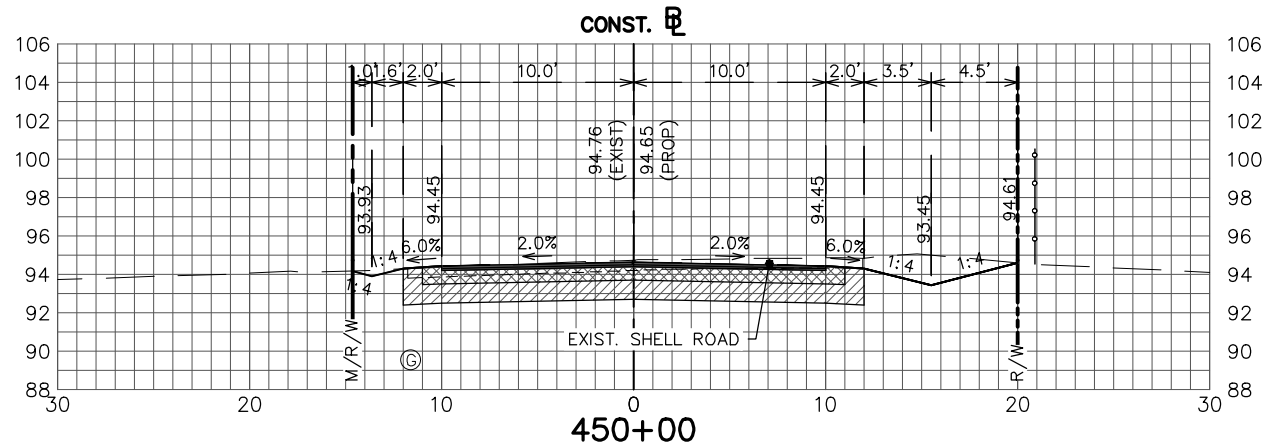
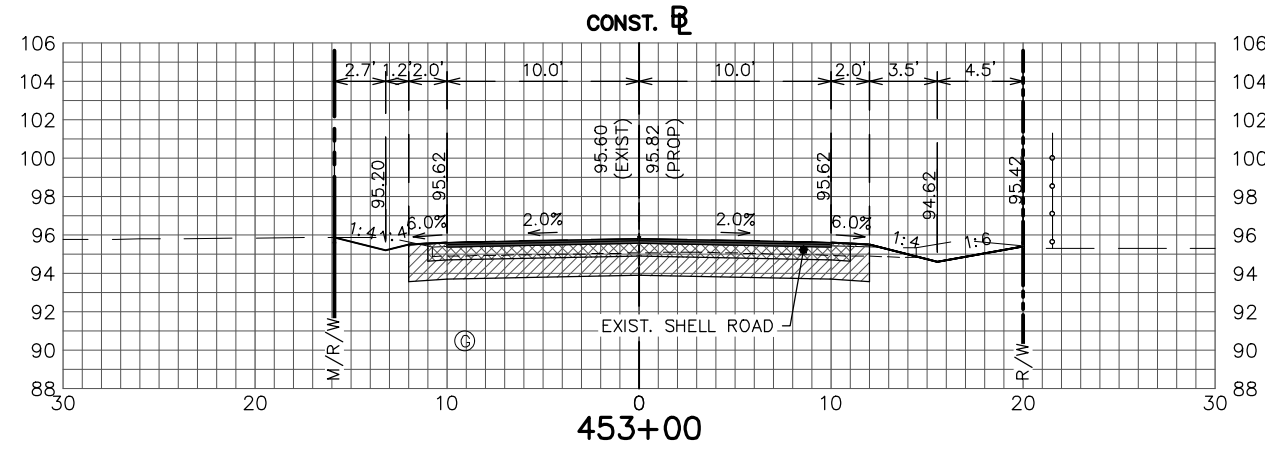
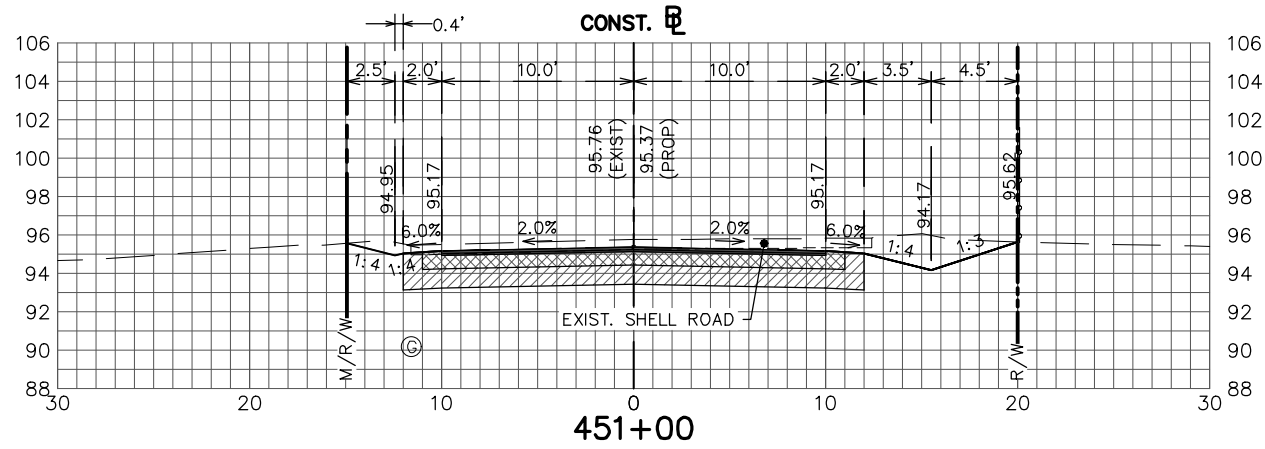
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**TRACTOR ROAD
IMPROVEMENTS
CROSS SECTIONS**

SCALE: HORIZ. 1"=10' VERT. 1"=10'	
PROJECT NO. 11048	REV. 0
SHEET 54 OF 59	



REVISIONS		
DATE	BY	DESCRIPTION

STATUS
FOR BID

DESIGNED BY: ELIUS F. NORTELUS, P.E.
 DRAWN BY: DOUG NIETUBICZ
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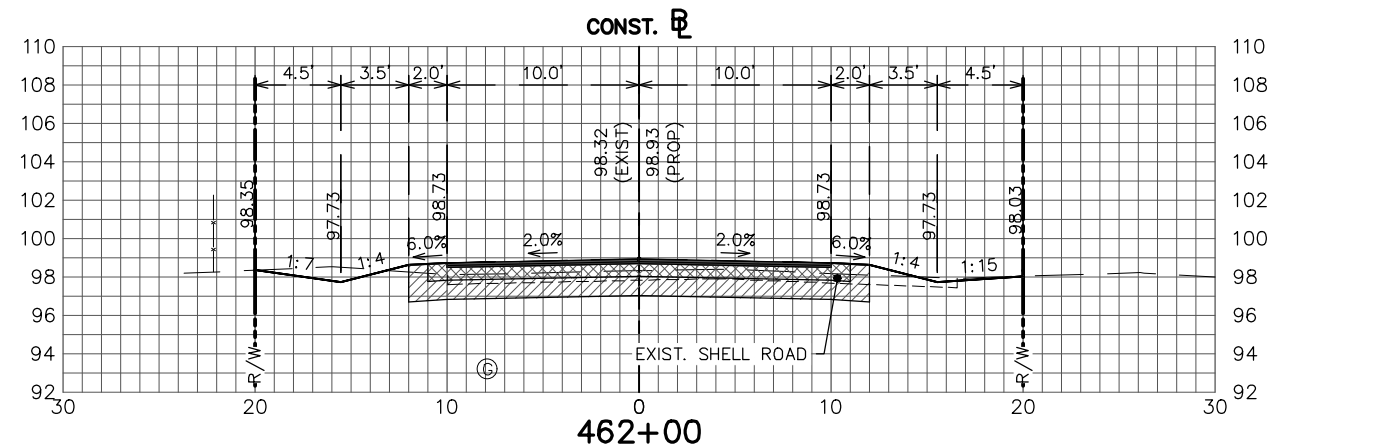
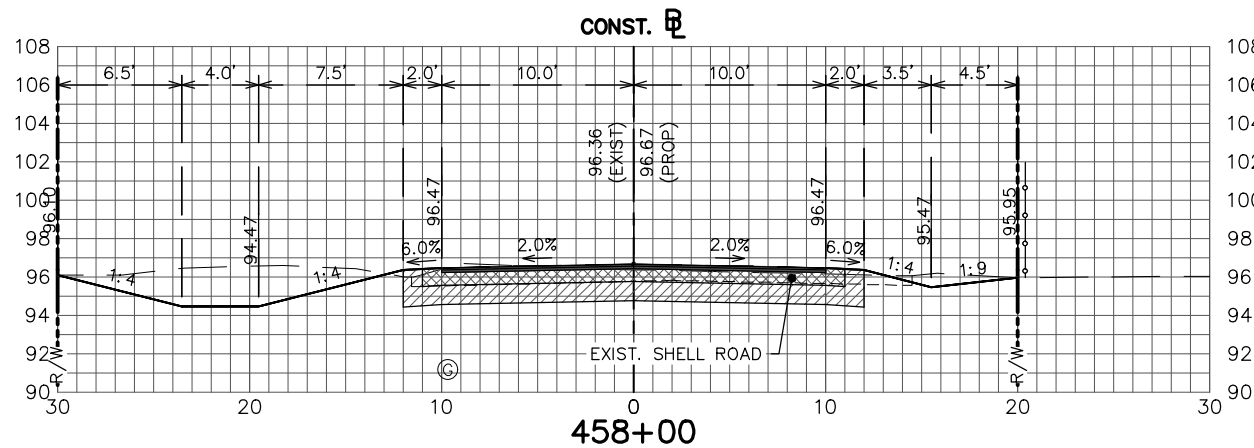
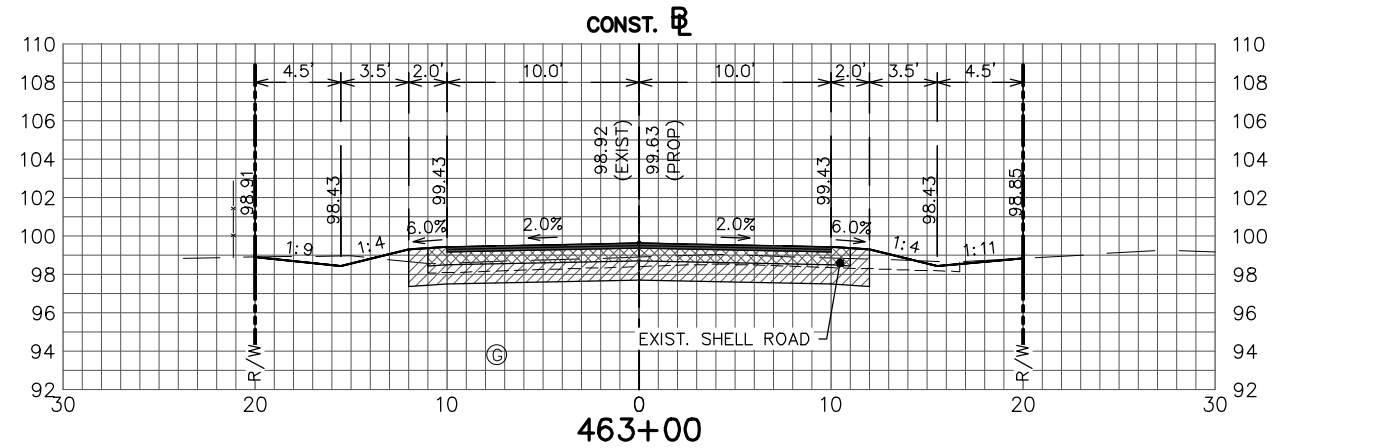
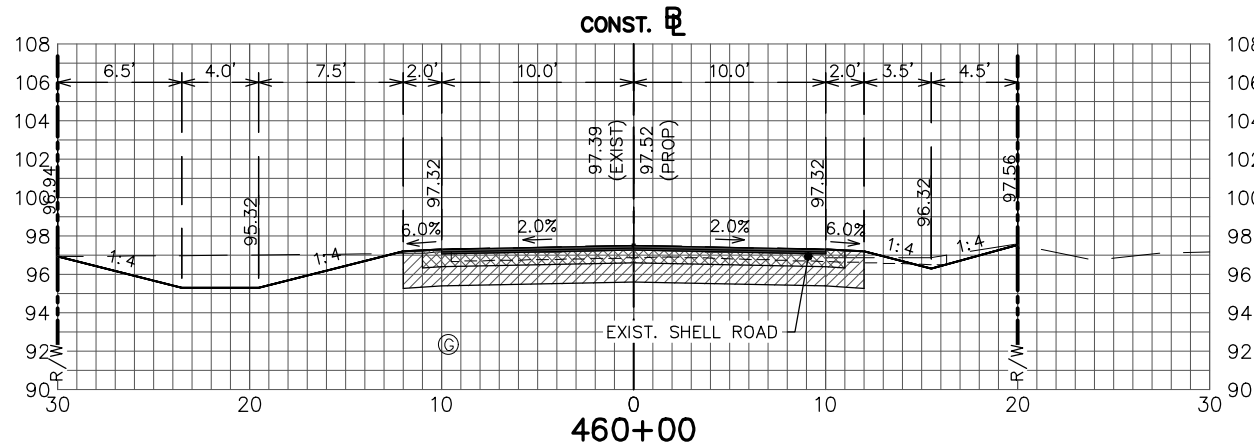
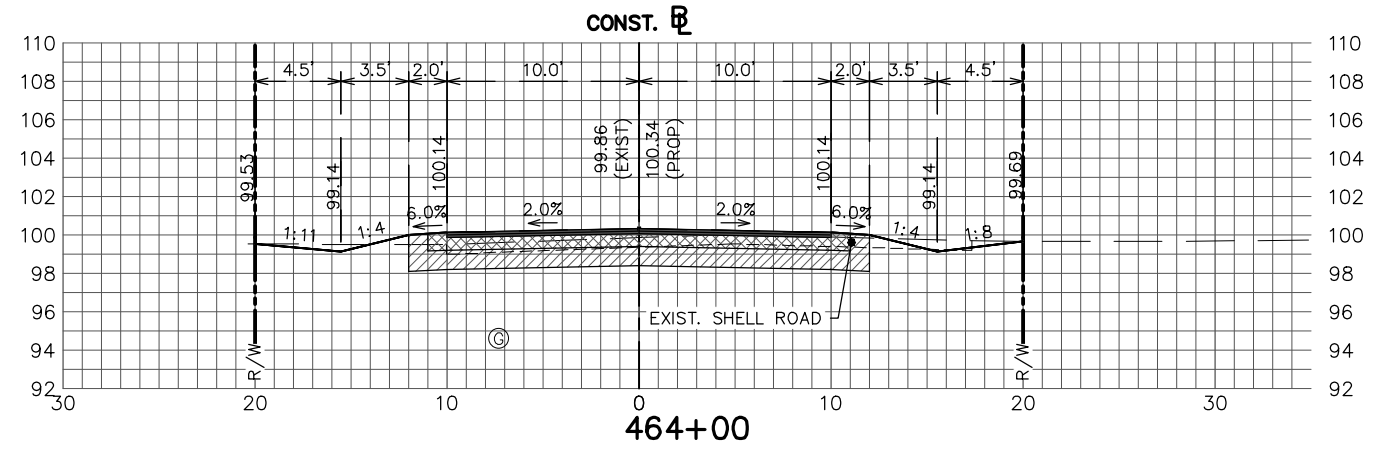
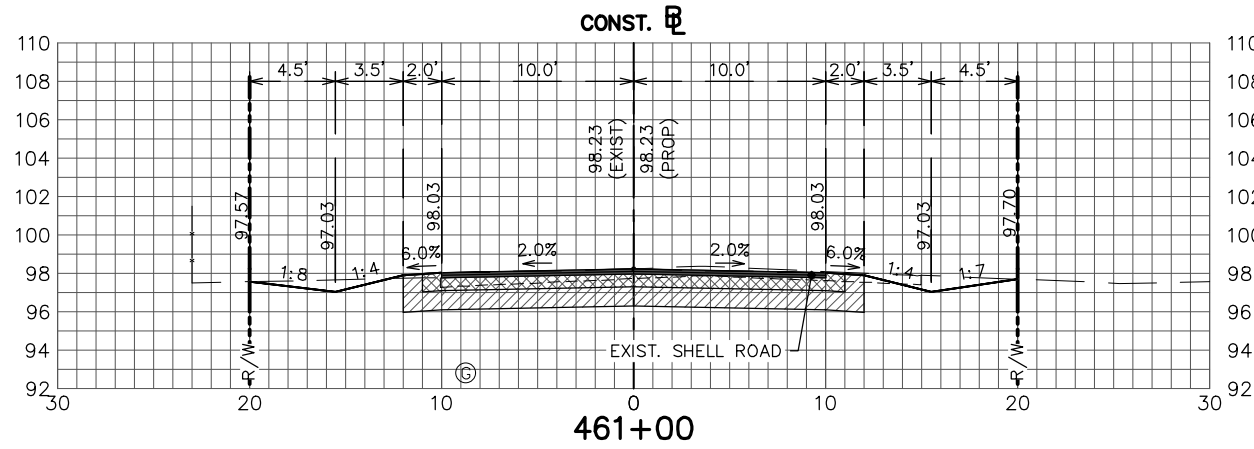
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TRACTOR ROAD
IMPROVEMENTS
CROSS SECTIONS

SCALE: HORIZ. 1"=10' VERT. 1"=10'	
PROJECT NO. 11048	REV. 0
SHEET 55 OF 59	

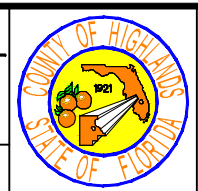


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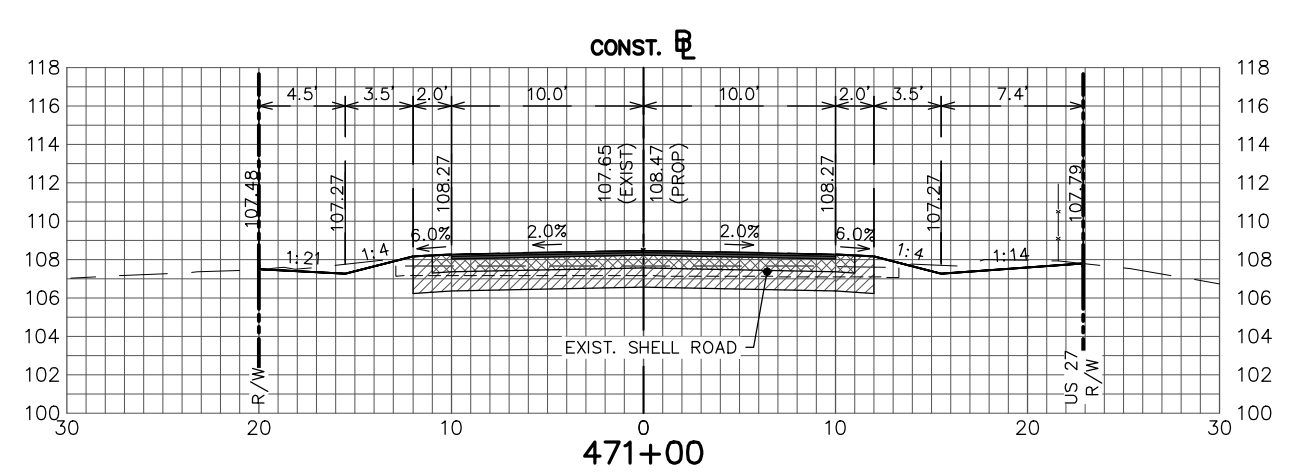
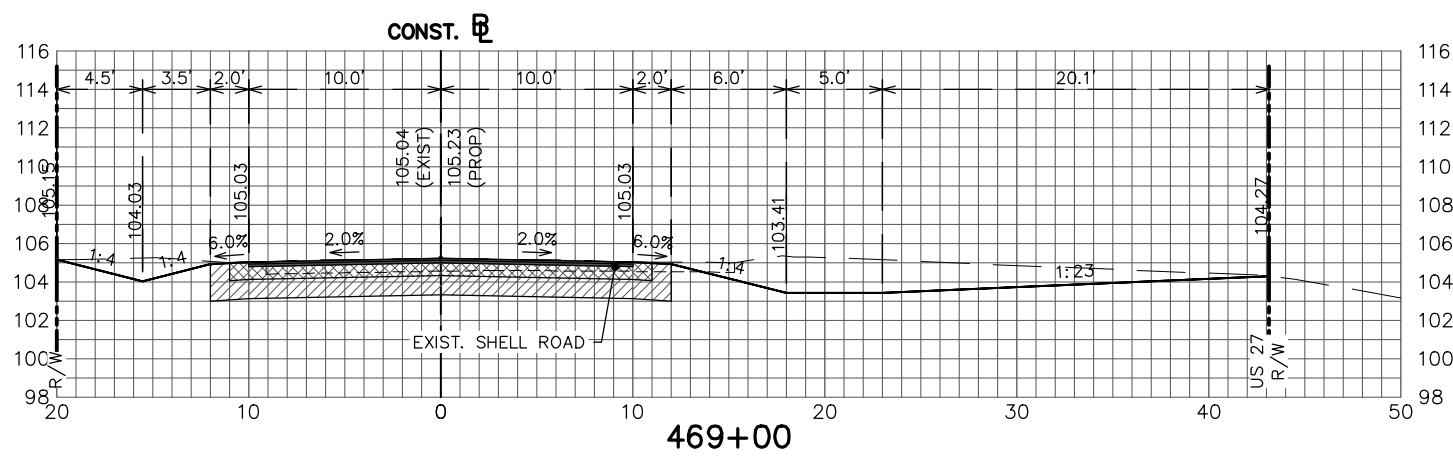
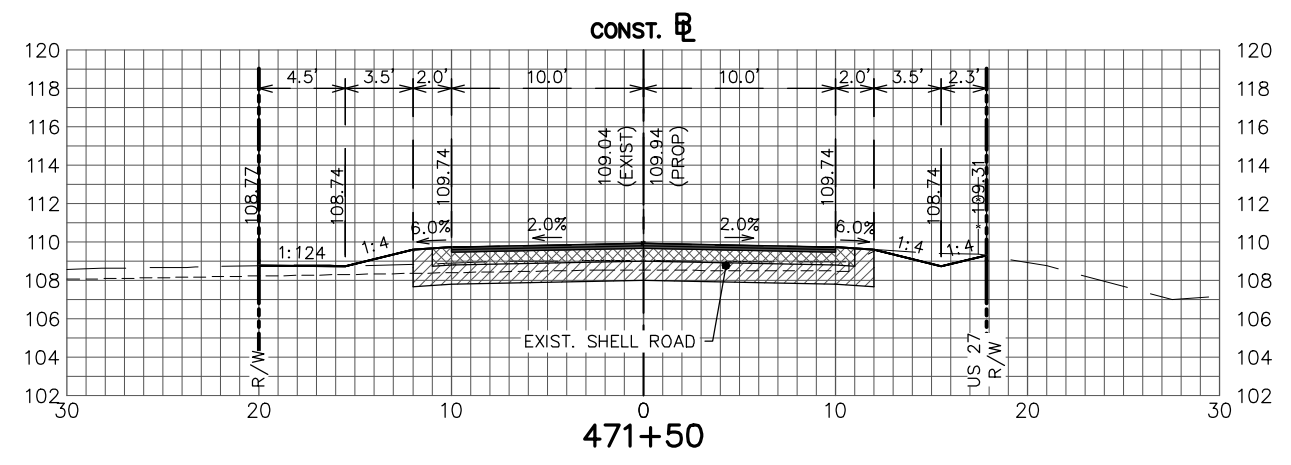
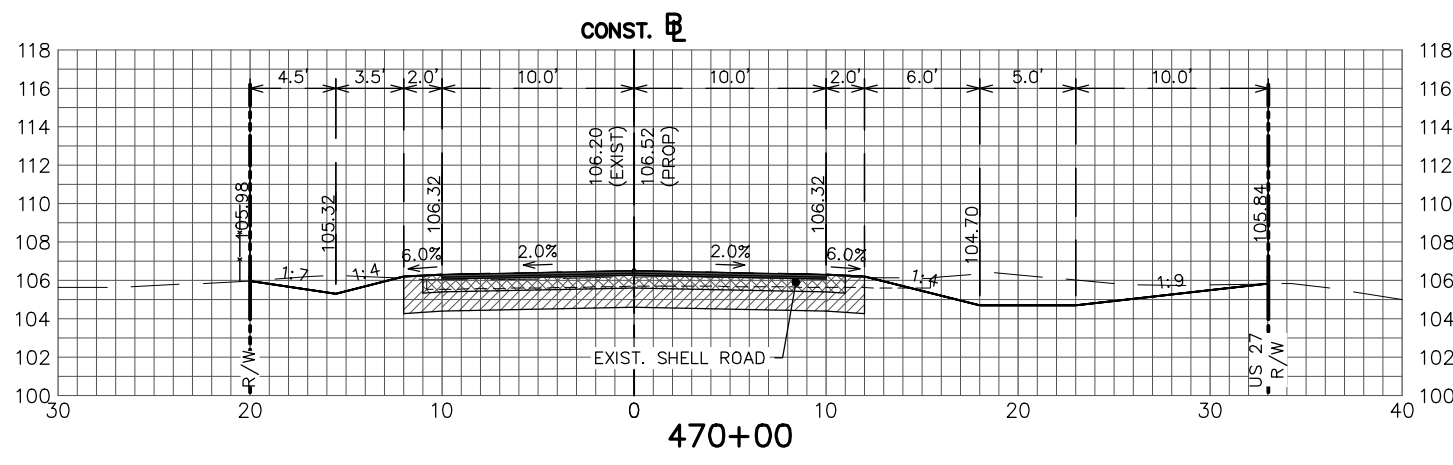
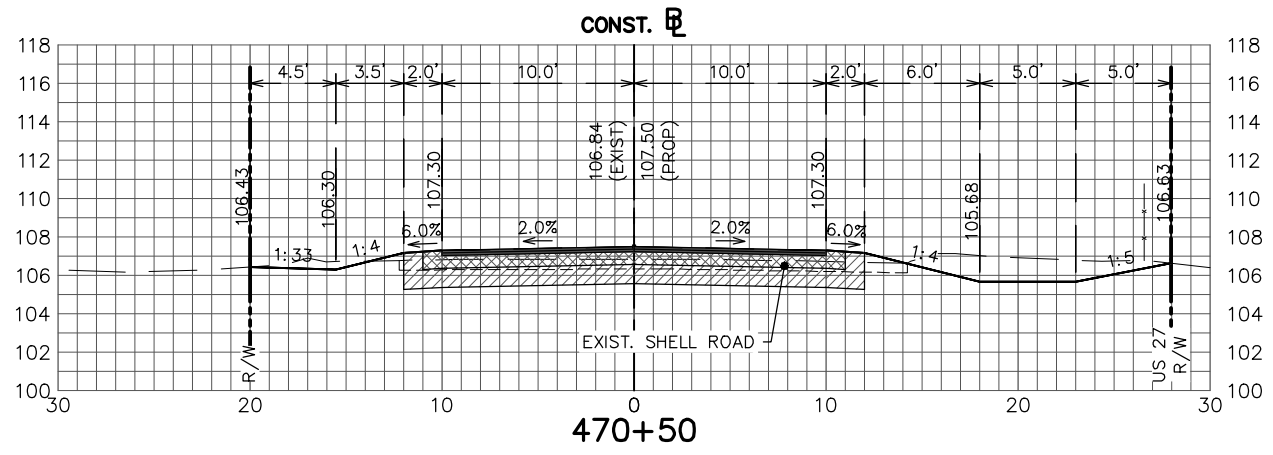
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**TRACTOR ROAD
IMPROVEMENTS
CROSS SECTIONS**

SCALE: HORIZ. 1"=10' VERT. 1"=10'	
PROJECT NO. 11048	REV. 0
SHEET 57 OF 59	

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REVISIONS		STATUS
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TRACTOR ROAD IMPROVEMENTS
CROSS SECTIONS

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

PROJECT NO. 11048
REV. 0

SHEET 59 OF 59

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