

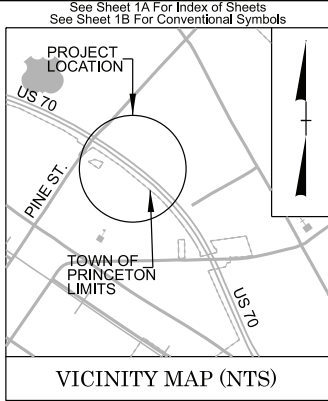
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with their signature on that page.**

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WBS PROJECT: 80113

CONTRACT: TBD



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

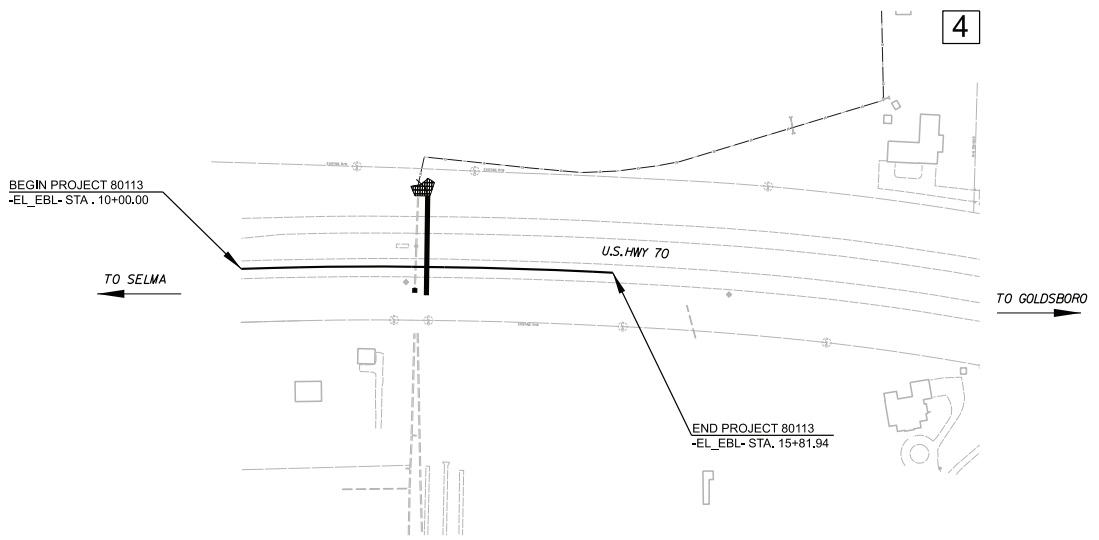
JOHNSTON COUNTY

LOCATION: *ALONG US 70 0.12 MILES EAST OF INTERSECTION
WITH SR 2534 (N PINE ST.)*

TYPE OF WORK: *TRENCHLESS PIPE INSTALLATION, GRADING,
AND EROSION CONTROL*

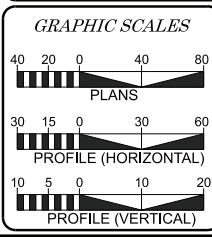
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	80113	11	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
80113		PE	
80113		R/W, UTILITIES	
80113		CONSTRUCTION	

STAGE 4 PLANS
(4RD1 / 4HY1)
Plans Developed with
OpenRoads



THIS IS A LIMITED CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERSECTIONS.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA

ADT 2017 =	23,100
ADT 2040 =	38,300
K =	8 %
D =	55 %
T =	10 % *
V =	EXISTING
* TTST = 7 % DUAL 3 %	
FUNC CLASS = RURAL	
PRINCIPAL ARTERIAL	
STATEWIDE TIER	

PROJECT LENGTH

LENGTH ROADWAY WBS PROJECT 80113	=	0.110 MILES
TOTAL LENGTH WBS PROJECT 80113	=	0.110 MILES

NCDOT Contact	RACHEL EVANS, PE
Prepared In the Office of:	KCA KIMBERLY COOK & ASSOCIATES NC FIRM LICENSE NO. C-1506 301 FAYETTEVILLE RD. RALEIGH, NC 27601 (919) 882-7830
2018 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE:	ERIK P. AADLAND, P.E. PROJECT ENGINEER
LETTING DATE:	WILLIAM N. KING PROJECT DESIGN ENGINEER
	05/24/2022

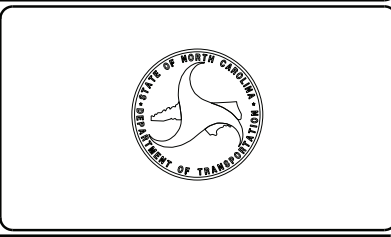
HYDRAULICS ENGINEER

4/20/2022

Prepared by: **Erik P. Aadland**
SIGNATURE: _____
ROADWAY DESIGN ENGINEER

SEAL: NORTH CAROLINA PROFESSIONAL SEAL 049338 ENGINEER ERIC P. AADLAND

SIGNATURE: _____ P.E.



5/25/20

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
3D-1	DRAINAGE SUMMARIES
4 THRU 5	PLAN AND PROFILE SHEET
X-01	CROSS SECTION
EC-1 THRU EC-5	EROSION CONTROL PLANS

GENERAL NOTES:

2018 SPECIFICATIONS

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

SUBSURFACE PLANS:

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

UTILITIES:

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

WORK ZONE TRAFFIC CONTROL:

USE STANDARD INDEX 1101.01, SHEET 2 OF 3, AND INDEX 1101.04 FOR TEMPORARY SHOULDER CLOSURES ON DIVIDED FACILITIES.

2018 ROADWAY ENGLISH STANDARD DRAWINGS:

The following Roadway Standards as they appear in "Roadway Standard Drawings" Highway Design Branch - N.C. Department of Transportation - Raleigh, N.C., Dated January, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

STD. NO.	TITLE
DIVISION 8 - INCIDENTALS	
840.72	Pipe Collar
876.02	Guide for Rip Rap at Pipe Outlets

PROJECT NOTES:

GRADING:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL GRADING ON THIS PROJECT INCLUDING, BUT NOT LIMITED TO BORE PITS, TEMPORARY DITCHES, STREAM CHANNELS AND FINAL RESTORATION. GRADING WILL BE PAID AS A LUMP SUM UNDER THE LINE ITEM, GRADING.

80113

4RD/HY1 1A

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
JOHNSTON COUNTY



ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER



4/20/2022

Digitized by
Erik P. Hallman
4823747712

PREPARED BY

KCA
CONSTRUCTION
& ASSOCIATES

NC #198 LICENSE: Hwy E-1505
307 Fayetteville Street
Suite 100
Raleigh, NC 27601
(919)882-7000

REVISIONS

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

*S.U.E. = Subsurface Utility Engineering

Note: Not to Scale

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○
Computed Property Corner	⊗
Property Monument	□
Parcel / Sequence Number	②③
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	○
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	-----
Proposed Wetland Boundary	-----
Existing Endangered Animal Boundary	-----
Existing Endangered Plant Boundary	-----
Existing Historic Property Boundary	-----
Known Contamination Area: Soil	⊗-S-⊗
Potential Contamination Area: Soil	⊗-S-⊗
Known Contamination Area: Water	⊗-W-⊗
Potential Contamination Area: Water	⊗-W-⊗
Contaminated Site: Known or Potential	⊗

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○
Well	○
Small Mine	⊗
Foundation	□
Area Outline	□
Cemetery	⊕
Building	□
School	⊕
Church	⊕
Dam	⊕

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	□
Jurisdictional Stream	-----
Buffer Zone 1	-----
Buffer Zone 2	-----
Flow Arrow	←
Disappearing Stream	-----
Spring	○
Wetland	-----
Proposed Lateral, Tail, Head Ditch	-----
Fault Sump	⊕

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○
Switch	□
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY & PROJECT CONTROL:

Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	⊕
Secondary Horiz and Vert Control Point	⊕
Vertical Benchmark	⊕
Existing Right of Way Monument	△
Proposed Right of Way Monument (Rebar and Cap)	△
Proposed Right of Way Monument (Concrete)	⊕
Existing Permanent Easement Monument	◇
Proposed Permanent Easement Monument (Rebar and Cap)	◇
Existing C/A Monument	△
Proposed C/A Monument (Rebar and Cap)	△
Proposed C/A Monument (Concrete)	⊕
Existing Right of Way Line	-----
Proposed Right of Way Line	-----
Existing Control of Access Line	-----
Proposed Control of Access Line	-----
Proposed ROW and CA Line	-----
Existing Easement Line	-----
Proposed Temporary Construction Easement	-----
Proposed Temporary Drainage Easement	-----
Proposed Permanent Drainage Easement	-----
Proposed Permanent Drainage/Utility Easement	-----
Proposed Permanent Utility Easement	-----
Proposed Temporary Utility Easement	-----
Proposed Aerial Utility Easement	-----

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-----
Proposed Slope Stakes Fill	-----
Proposed Curb Ramp	-----
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	⊗

VEGETATION:

Single Tree	⊕
Single Shrub	⊕

Hedge	-----
Woods Line	-----
Orchard	⊕
Vineyard	-----

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	-----
Bridge Wing Wall, Head Wall and End Wall	-----
MINOR:	
Head and End Wall	-----
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	□
Paved Ditch Gutter	-----
Storm Sewer Manhole	⊕
Storm Sewer	-----

UTILITIES:

POWER:	
Existing Power Pole	⊕
Proposed Power Pole	⊕
Existing Joint Use Pole	⊕
Proposed Joint Use Pole	⊕
Power Manhole	⊕
Power Line Tower	⊕
Power Transformer	⊕
U/G Power Cable Hand Hole	⊕
H-Frame Pole	⊕
U/G Power Line LOS B (S.U.E.*)	-----
U/G Power Line LOS C (S.U.E.*)	-----
U/G Power Line LOS D (S.U.E.*)	-----

TELEPHONE:

Existing Telephone Pole	⊕
Proposed Telephone Pole	⊕
Telephone Manhole	⊕
Telephone Pedestal	⊕
Telephone Cell Tower	⊕
U/G Telephone Cable Hand Hole	⊕
U/G Telephone Cable LOS B (S.U.E.*)	-----
U/G Telephone Cable LOS C (S.U.E.*)	-----
U/G Telephone Cable LOS D (S.U.E.*)	-----
U/G Telephone Conduit LOS B (S.U.E.*)	-----
U/G Telephone Conduit LOS C (S.U.E.*)	-----
U/G Telephone Conduit LOS D (S.U.E.*)	-----
U/G Fiber Optics Cable LOS B (S.U.E.*)	-----
U/G Fiber Optics Cable LOS C (S.U.E.*)	-----
U/G Fiber Optics Cable LOS D (S.U.E.*)	-----

WATER:

Water Manhole	⊕
Water Meter	⊕
Water Valve	⊕
Water Hydrant	⊕
U/G Water Line LOS B (S.U.E.*)	-----
U/G Water Line LOS C (S.U.E.*)	-----
U/G Water Line LOS D (S.U.E.*)	-----
Above Ground Water Line	-----

TV:

TV Pedestal	⊕
TV Tower	⊕
U/G TV Cable Hand Hole	⊕
U/G TV Cable LOS B (S.U.E.*)	-----
U/G TV Cable LOS C (S.U.E.*)	-----
U/G TV Cable LOS D (S.U.E.*)	-----
U/G Fiber Optic Cable LOS B (S.U.E.*)	-----
U/G Fiber Optic Cable LOS C (S.U.E.*)	-----
U/G Fiber Optic Cable LOS D (S.U.E.*)	-----

GAS:

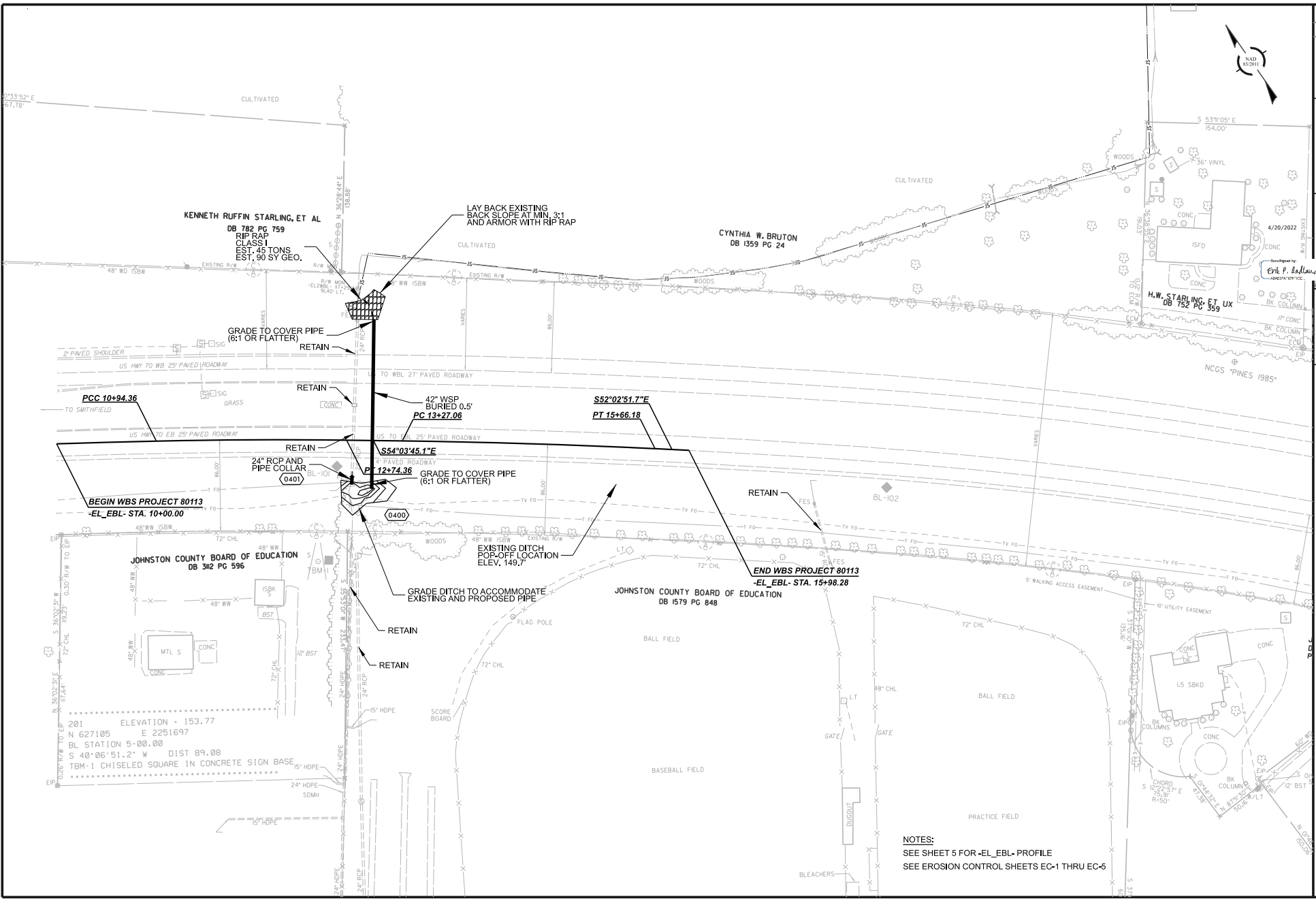
Gas Valve	⊕
Gas Meter	⊕
U/G Gas Line LOS B (S.U.E.*)	-----
U/G Gas Line LOS C (S.U.E.*)	-----
U/G Gas Line LOS D (S.U.E.*)	-----
Above Ground Gas Line	-----

SANITARY SEWER:

Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	-----
Above Ground Sanitary Sewer	-----
SS Forced Main Line LOS B (S.U.E.*)	-----
SS Forced Main Line LOS C (S.U.E.*)	-----
SS Forced Main Line LOS D (S.U.E.*)	-----

MISCELLANEOUS:

Utility Pole	⊕
Utility Pole with Base	⊕
Utility Located Object	⊕
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line LOS B (S.U.E.*)	-----
U/G Tank; Water, Gas, Oil	⊕
Underground Storage Tank, Approx. Loc.	⊕
A/G Tank; Water, Gas, Oil	⊕
Geoenvironmental Boring	⊕
U/G Test Hole LOS A (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.



KENNETH RUFFIN STARLING, ET AL
 DB 782 PG 759
 RIP RAP
 CLASS 1
 EST. 45 TONS
 EST. 90 SY GEO.

LAY BACK EXISTING
 BACK SLOPE AT MIN. 3:1
 AND ARMOR WITH RIP RAP

CYNTHIA W. BRUTON
 DB 1359 PG 24

H.W. STARLING, ET UX
 DB 752 PG 359

NCOS 'PINES 1985'

BEGIN WBS PROJECT 80113
 -EL_EBL- STA. 10+00.00

END WBS PROJECT 80113
 -EL_EBL- STA. 15+98.28

JOHNSTON COUNTY BOARD OF EDUCATION
 DB 312 PG 596

JOHNSTON COUNTY BOARD OF EDUCATION
 DB 1579 PG 848

201 ELEVATION - 153.77
 N 627105 E 2251697
 BL STATION 5+00.00
 S 40°06'51.2" W DIST 89.08
 TBM-1 CHISELED SQUARE IN CONCRETE SIGN BASE

NOTES:
 SEE SHEET 5 FOR -EL_EBL- PROFILE
 SEE EROSION CONTROL SHEETS EC-1 THRU EC-5

80113
 4RD/HY1 4

NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 JOHNSTON COUNTY

ROADWAY DESIGN
 ENGINEER

HYDRAULICS
 ENGINEER

4/20/2022

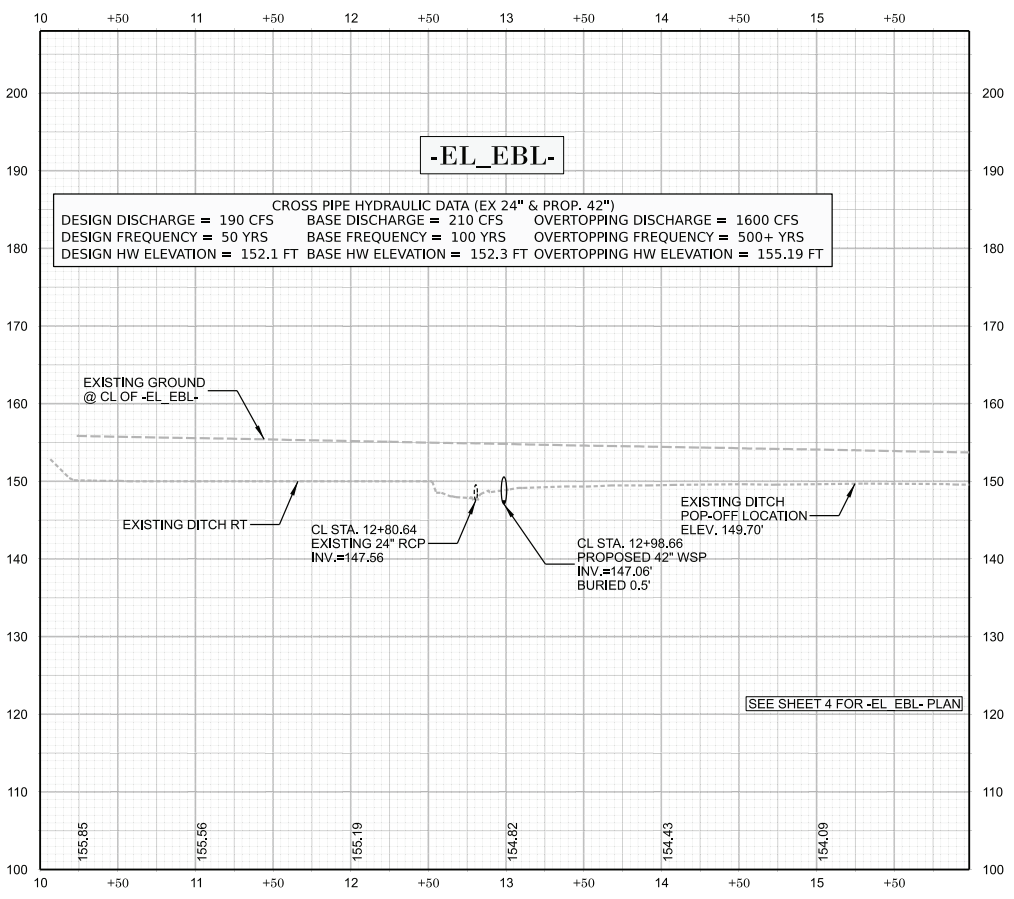
Erin P. Anderson
 DB 1027 PG 101

PROFESSIONAL
 SEAL
 049338
 ERIN P. ANDERSON
 CIVIL ENGINEER

PREPARED BY
KCA
 CONSULTANTS
 NC #PW LICENSE #MS C-1008
 301 Fayetteville Street
 Suite 100
 Raleigh, NC 27601
 (919)882-1699

REVISIONS


5/25/20



8013

4RD/HYI 5

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
JOHNSTON COUNTY



ROADWAY DIVISION 4
ROADWAY DESIGN ENGINEER

4/20/2022

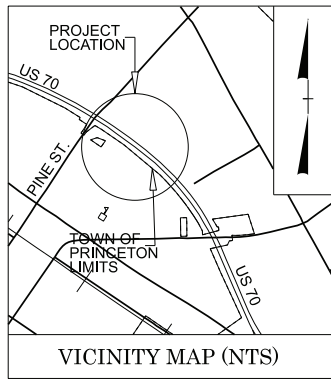
Hydraulics
ENGINEER

PROF. SEAL
049336
N.C. REG. NO. 13
JOHNSTON COUNTY, N.C.

PREPARED BY
KCA
KIMBERLY CLARK ASSOCIATES
N.C. P.E. LICENSE NO. C-1506
301 Fayetteville Street
Suite 100
Raleigh, NC 27601
(919)881-1099

REVISIONS

TIP PROJECT: 80113



STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 PLAN FOR PROPOSED
 HIGHWAY EROSION CONTROL
 JOHNSTON COUNTY

LOCATION: ALONG US 70 0.12 MILES EAST OF INTERSECTION
WITH SR 2534 (N PINE ST.)

TYPE OF WORK: TRENCHLESS PIPE INSTALLATION, GRADING, & EROSION CONTROL

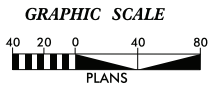
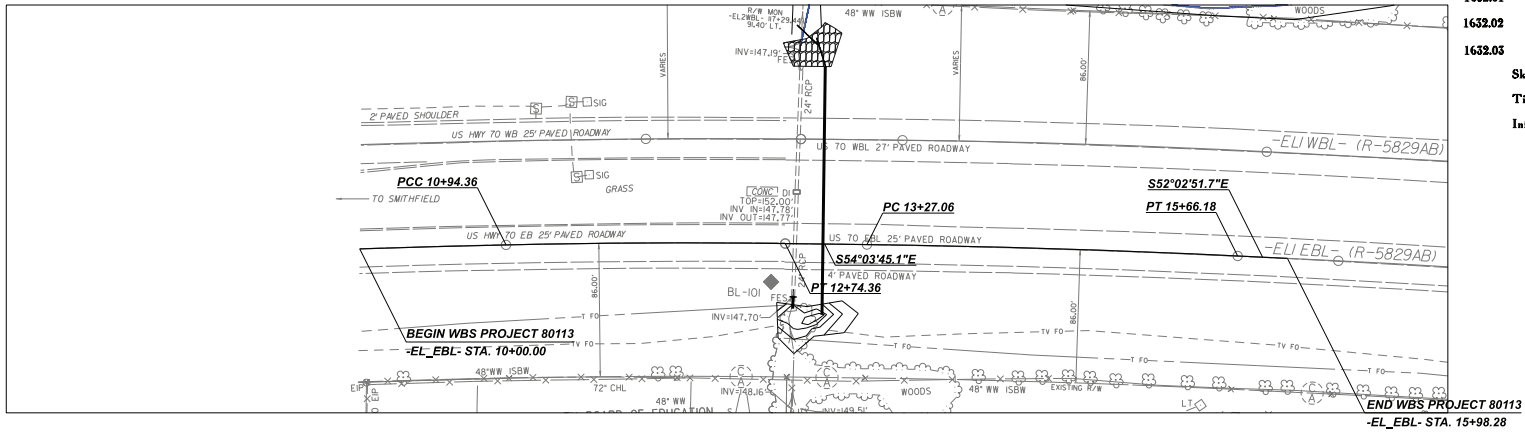


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	80113	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
80113		PE	
80113		R/W UTILITIES	
80113		CONSTRUCTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	---
1630.05	Temporary Diversion	---
1605.01	Temporary Silt Fence	---
1606.01	Special Sediment Control Fence	---
1622.01	Temporary Berms and Slope Drains	---
1630.02	Silt Basin Type B	---
1635.01	Temporary Rock Silt Check Type-A	---
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	---
1635.02	Temporary Rock Silt Check Type-B	---
	Wattle / Cair Fiber Wattle	---
	Wattle / Cair Fiber Wattle with Polyacrylamide (PAM)	---
1634.01	Temporary Rock Sediment Dam Type-A	---
1634.02	Temporary Rock Sediment Dam Type-B	---
1635.01	Rock Pipe Inlet Sediment Trap Type-A	---
1635.02	Rock Pipe Inlet Sediment Trap Type-B	---
1630.04	Stilling Basin	---
1630.06	Special Stilling Basin	---
	Rock Inlet Sediment Trap:	
1632.01	Type A	---
1632.02	Type B	---
1632.03	Type C	---
	Skimmer Basin	---
	Tiered Skimmer Basin	---
	Infiltration Basin	---

THIS PROJECT CONTAINS
 EROSION CONTROL PLANS
 FOR CLEARING AND
 GRUBBING PHASE OF
 CONSTRUCTION.



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-01000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.

Prepared in the Office of:

NC FIRM LICENSE No: C-1506
 301 Fayetteville St., Suite 1500
 Raleigh, NC 27601
 (919)882-7839

Designed by:

NELSON KING
NAME

4253
LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

The following roadway standards as appear in "Roadway Standard Drawings", Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

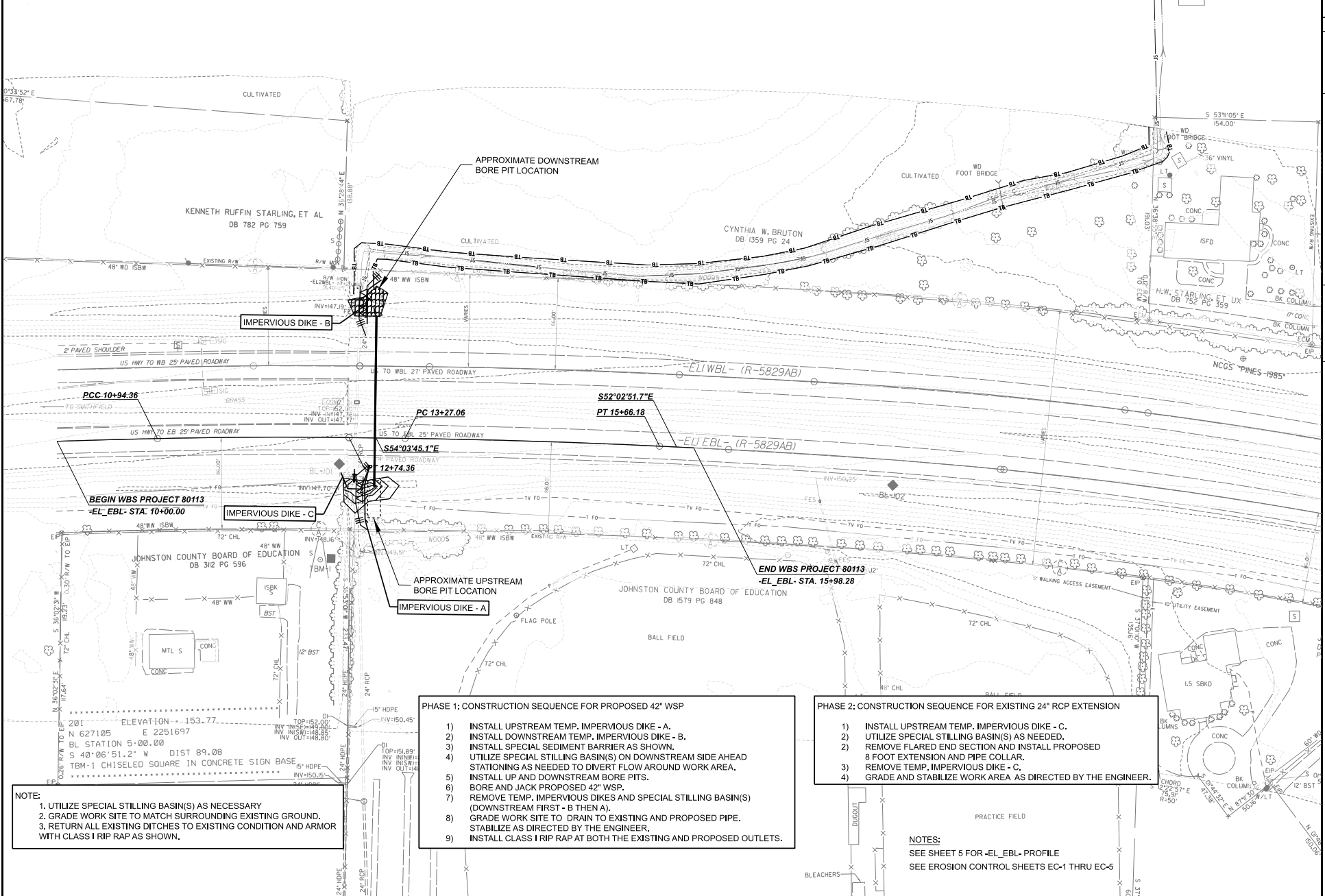
1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Cair Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>8013</i>	SHEET NO. <i>EC-2</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES.



NOTE:
1. UTILIZE SPECIAL STILLING BASIN(S) AS NECESSARY
2. GRADE WORK SITE TO MATCH SURROUNDING EXISTING GROUND.
3. RETURN ALL EXISTING DITCHES TO EXISTING CONDITION AND ARMOR WITH CLASS I RIP RAP AS SHOWN.

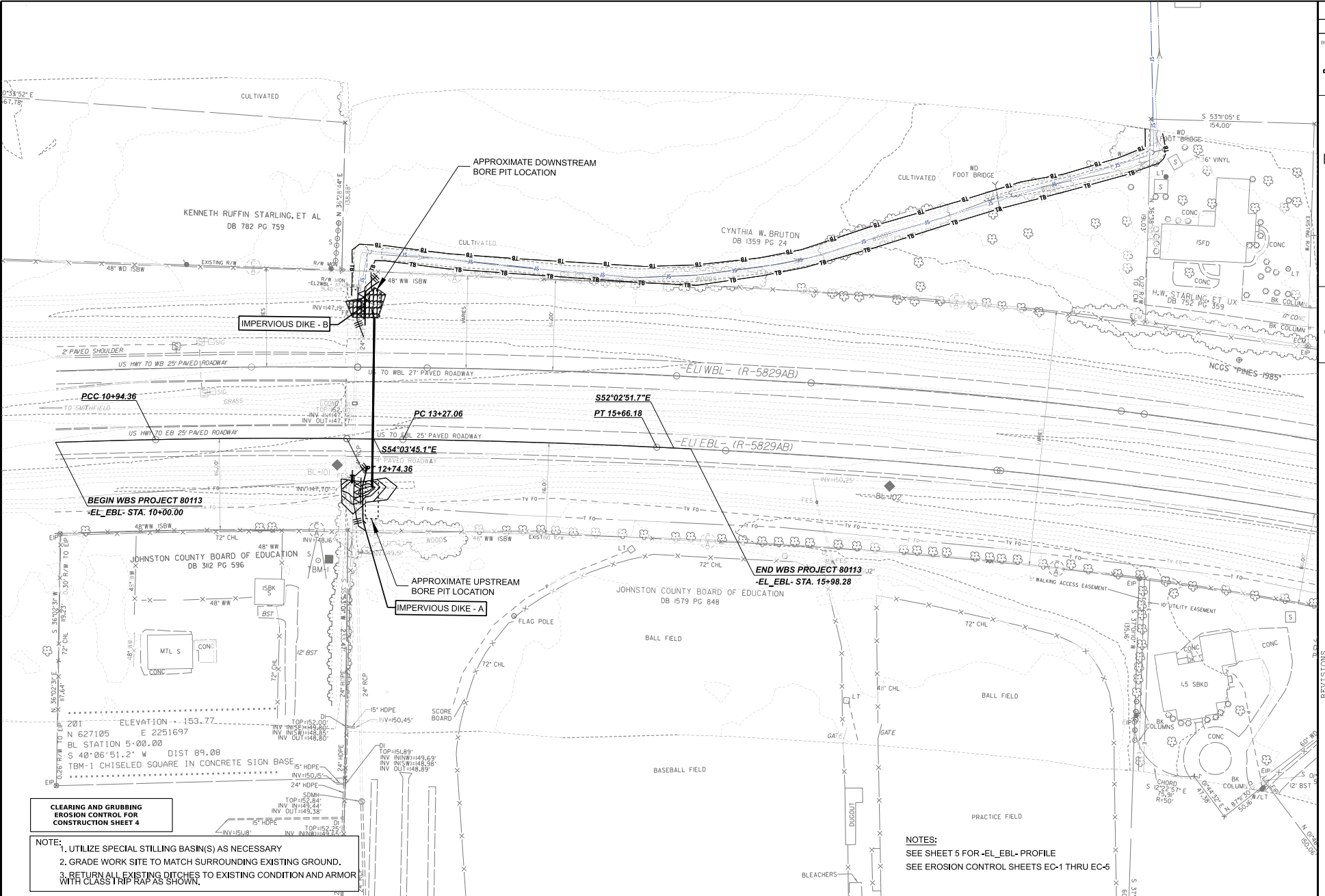
- PHASE 1: CONSTRUCTION SEQUENCE FOR PROPOSED 42" WSP**
- 1) INSTALL UPSTREAM TEMP. IMPERVIOUS DIKE - A.
 - 2) INSTALL DOWNSTREAM TEMP. IMPERVIOUS DIKE - B.
 - 3) INSTALL SPECIAL SEDIMENT BARRIER AS SHOWN.
 - 4) UTILIZE SPECIAL STILLING BASIN(S) ON DOWNSTREAM SIDE AHEAD STATIONING AS NEEDED TO DIVERT FLOW AROUND WORK AREA.
 - 5) INSTALL UP AND DOWNSTREAM BORE PITS.
 - 6) BORE AND JACK PROPOSED 42" WSP.
 - 7) REMOVE TEMP. IMPERVIOUS DIKES AND SPECIAL STILLING BASIN(S) (DOWNSTREAM FIRST - B THEN A).
 - 8) GRADE WORK SITE TO DRAIN TO EXISTING AND PROPOSED PIPE. STABILIZE AS DIRECTED BY THE ENGINEER.
 - 9) INSTALL CLASS I RIP RAP AT BOTH THE EXISTING AND PROPOSED OUTLETS.

- PHASE 2: CONSTRUCTION SEQUENCE FOR EXISTING 24" RCP EXTENSION**
- 1) INSTALL UPSTREAM TEMP. IMPERVIOUS DIKE - C.
 - 2) UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED.
 - 3) REMOVE FLARED END SECTION AND INSTALL PROPOSED 8 FOOT EXTENSION AND PIPE COLLAR.
 - 4) REMOVE TEMP. IMPERVIOUS DIKE - C.
 - 5) GRADE AND STABILIZE WORK AREA AS DIRECTED BY THE ENGINEER.

NOTES:
SEE SHEET 5 FOR -EL_EBL- PROFILE
SEE EROSION CONTROL SHEETS EC-1 THRU EC-5

REVISIONS

5/25/20



**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4**

- NOTE:
1. UTILIZE SPECIAL STILLING BASIN(S) AS NECESSARY
 2. GRADE WORK SITE TO MATCH SURROUNDING EXISTING GROUND.
 3. RETURN ALL EXISTING DITCHES TO EXISTING CONDITION AND ARMOR WITH CLASS TRIP RAP AS SHOWN.

NOTES:
SEE SHEET 5 FOR -EL_EBL- PROFILE
SEE EROSION CONTROL SHEETS EC-1 THRU EC-5

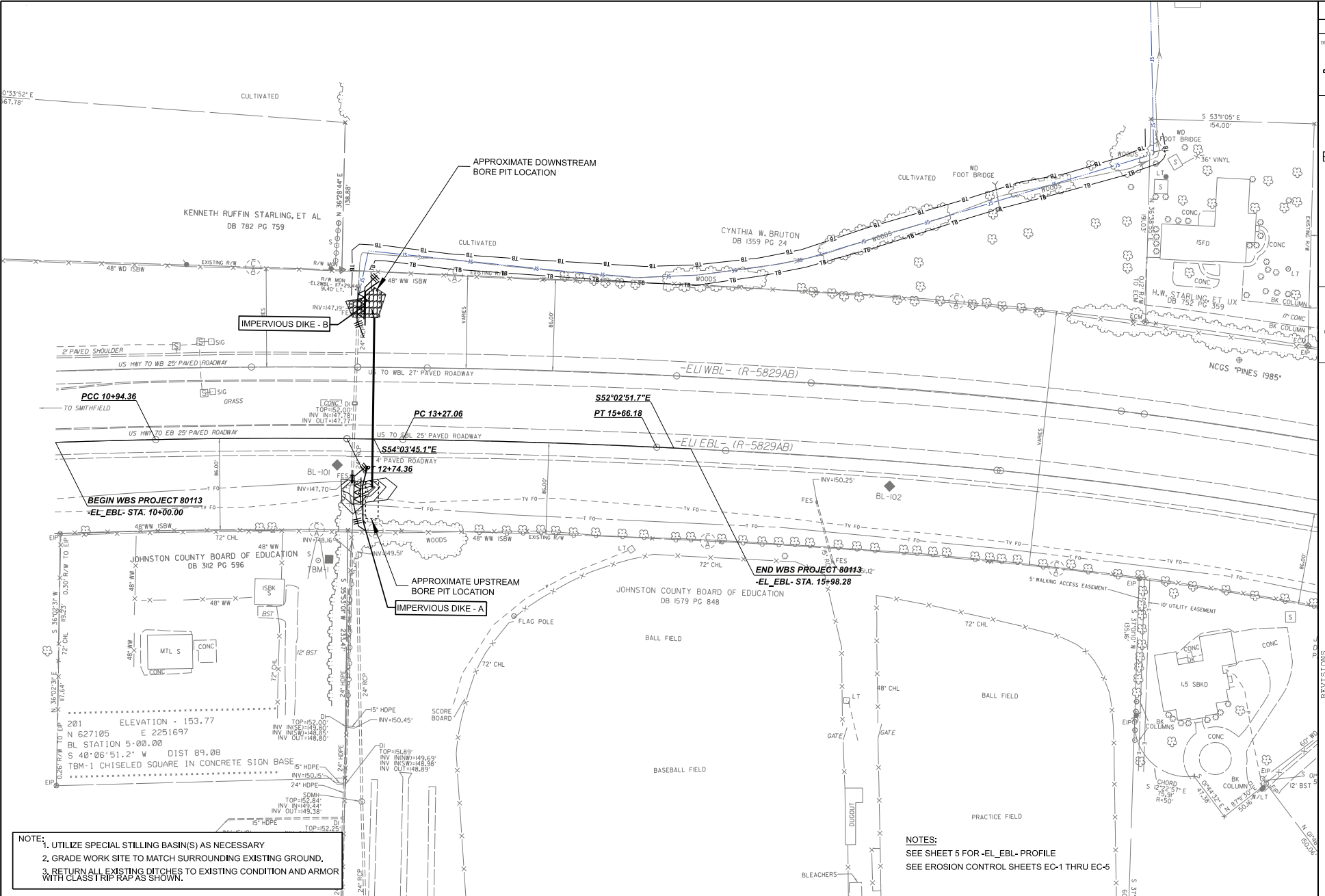
**NELSON KING
EROSION CONTROL
LEVEL III
CERT. #4253**

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(919)881-1099



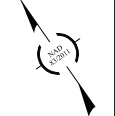
REVISIONS

5/25/20



- NOTE:
1. UTILIZE SPECIAL STILLING BASIN(S) AS NECESSARY
 2. GRADE WORK SITE TO MATCH SURROUNDING EXISTING GROUND.
 3. RETURN ALL EXISTING DITCHES TO EXISTING CONDITION AND ARMOR WITH CLASS TRIP RAP AS SHOWN.

- NOTES:
- SEE SHEET 5 FOR -EL_EBL- PROFILE
 - SEE EROSION CONTROL SHEETS EC-1 THRU EC-5



REVISIONS

5/25/20

0	10	20	80113
X			01

