

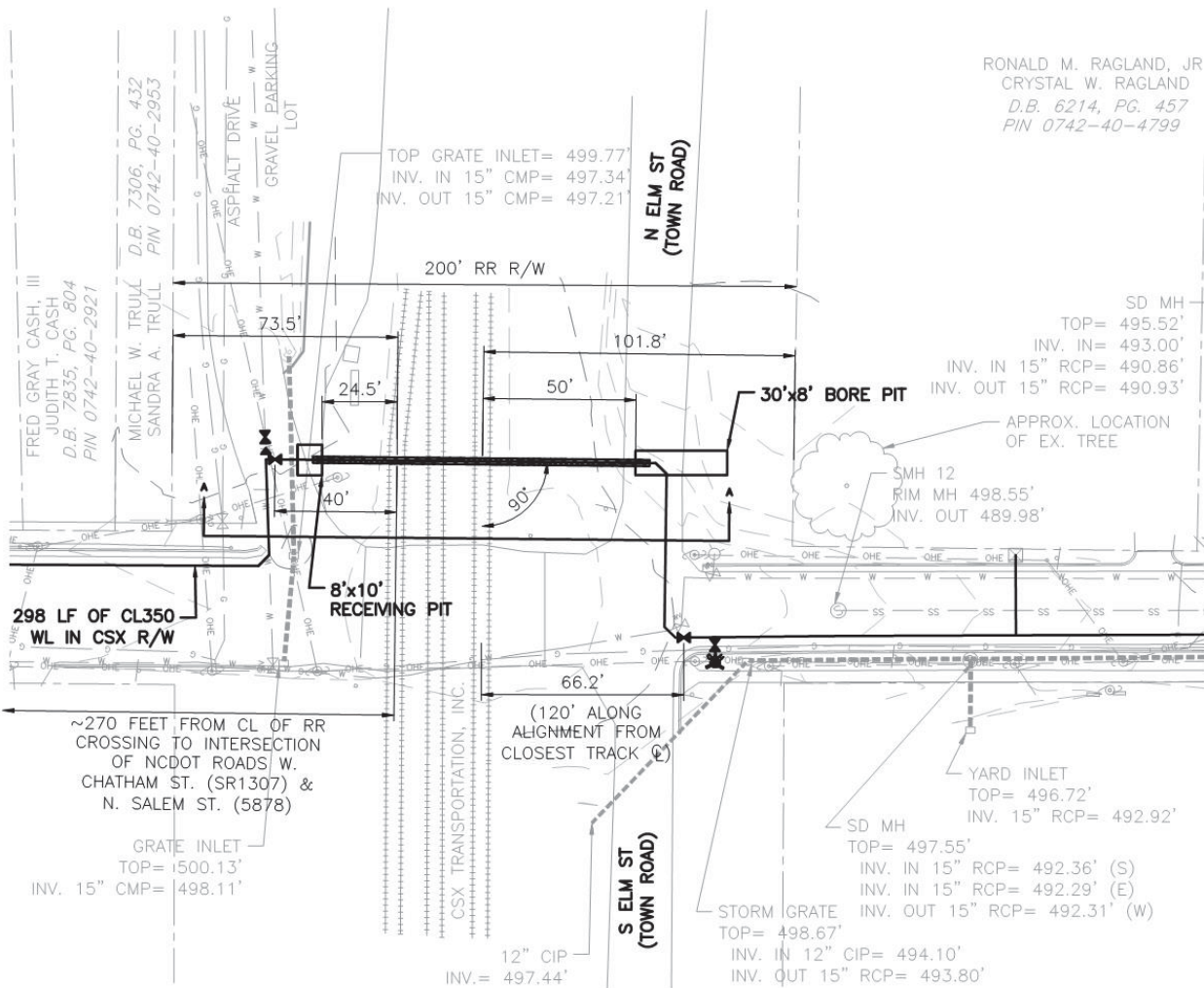
CSX884583 EXHIBIT A

CSX GENERAL NOTES:

1. REFER TO THE CSX PIPELINE DESIGN & CONSTRUCTION SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. THE FRONT OF THE PIPE SHALL BE PROVIDED WITH MECHANICAL ARRANGEMENTS OR DEVICES THAT WILL POSITIVELY PREVENT THE AUGER FROM LEADING THE PIPE SO THAT NO UNSUPPORTED EXCAVATION IS AHEAD OF THE PIPE.
3. THE OPERATION SHALL BE PROGRESSED ON A 24-HOUR BASIS WITHOUT STOPPAGE (EXCEPT FOR ADDING LENGTHS OF PIPE) UNTIL THE LEADING EDGE OF THE PIPE HAS REACHED THE RECEIVING PIT.
4. THE AUGER AND CUTTING HEAD ARRANGEMENT SHALL BE REMOVABLE FROM WITHIN THE PIPE IN THE EVENT AN OBSTRUCTION IS ENCOUNTERED.
5. PIPELINE SHALL BE PROMINENTLY MARKED AT BOTH SIDES OF THE CSX PROPERTY LINES BY DURABLE, WEATHERPROOF SIGNS LOCATED OVER THE CENTERLINE OF THE PIPE IN ACCORDANCE WITH CSX SPECIFICATIONS.
6. NO CONSTRUCTION OR ENTRY UPON THE CSX CORRIDOR IS PERMITTED UNTIL THE DOCUMENT TRANSACTION IS COMPLETED, YOU ARE IN RECEIPT OF A FULLY EXECUTED DOCUMENT, AND YOU HAVE OBTAINED AUTHORITY FROM THE LOCAL ROADMASTER.
7. IF REQUIRED, A DEWATERING PLAN IN ACCORDANCE WITH CSX SPECIFICATIONS WILL BE SUBMITTED TO THE CSX REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO ANY DEWATERING OPERATIONS.
8. BLASTING IS NOT PERMITTED UNDER OR ON CSX PROPERTY.
9. CSX DOES NOT GRANT OR CONVEY AN EASEMENT FOR THIS INSTALLATION.
10. EXISTING PIPES TO BE ABANDONED WILL BE COMPLETELY FILLED WITH CEMENT GROUT, COMPACTED SAND, OR FLOWABLE FILL.

CSX PROPERTY SERVICES REVIEW	
<input checked="" type="checkbox"/> No Exceptions	<input type="checkbox"/> Exceptions Noted
This review is for the general conformance with CSX utility design specifications only. Sole responsibility for all aspects of the overall design shall remain with the facility owner. This review does not constitute approval to proceed without meeting all of CSX's safety and contractual requirements.	
By: <u>THOMAS PAULY</u>	

Print Form Reset Form



NOTES:

THE DISTANCE FROM CROSSING TO CENTERLINE OF NEAREST PUBLIC ROAD INTERSECTION IS APPROX. 870 FEET.

WIDTH OF CSX R/W IS 130 FEET

DISTANCE FROM CENTERLINE OF TRACK TO R/W IS APPROX. 65 FEET

TOTAL LENGTH OF PIPE ON CSX R/W IS 130 FEET.

DISTANCE FROM CENTERLINE OF NEAREST TRACK TO FACE OF BORE PIT IS APPROX. 72 FEET.

DISTANCE FROM CENTERLINE OF NEAREST TRACK TO FACE OF RECEIVING PIT IS APPROX. 71 FEET.

ANGLE OF CROSSING IS APPROX. 88 DEGREES.

THE DISTANCE TO THE VALVE TO THE WEST IS APPROX. 152 FEET. THE VALVE TO THE EAST IS APPROX. 95 FEET ALONG THE PIPE ALIGNMENT.

BORE PIT IS 10 FEET WIDE BY 30 FEET LONG

RECEIVING PIT IS 5 FEET WIDE BY 5 FEET LONG

WATERLINE WILL BE MAINTAINED BY CAPE FEAR PUBLIC UTILITY AUTHORITY.

WATERLINE WILL BE PERMITTED BY PUBLIC WATER SUPPLY.



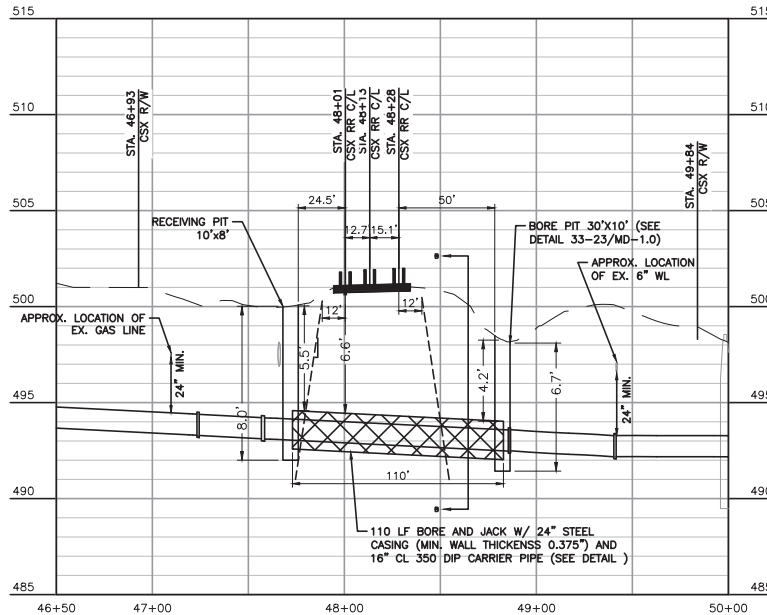
1 PLAN - CSX CROSSING

SCALE: 1" = 40'



(IN FEET)
1 inch = 40 ft.

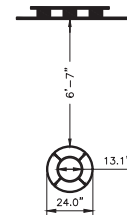
Location:	APEX, NC	
Latitude:	35.730440	
Longitude:	-78.850724	
Drawing No.:	APX1801	Sheet 1 of 2
Drawing Date:	3/8/2019	Last Revised: 3/8/2019
Drawing Scale:	1 Inches = 50 Feet	



1 PIPELINE PROFILE VIEW A-A

SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

SCALED TO 40% OF ORIGINAL SIZE



2 CROSS SECTION VIEW B-B
SCALE: 1" = 30'

NOTES:

REFER TO HDD INTERIM GUIDELINES AND ENGINEERING SPECIFICATIONS IN THE APPLICATION PACKAGE FOR ADDITIONAL INFORMATION AND GUIDANCE.

LOCATE CSX'S SIGNAL FACILITIES AND/OR WARNING DEVICES AT PROPOSED FACILITY CROSSING LOCATION, I.E. CANTILEVERS, FLASHERS, GATES AND SHOW CLEARANCES.

CASING PIPE ENDS MUST BE SEALED.

IF APPLICABLE, HDPE DR 11 OR BETTER MUST BE USED.

YOUR DRAWING MUST SHOW ALL SETS OF TRACKS PRESENT AT THE PROPOSED UTILITY CROSSING LOCATION.

CSX BORE PLAN TEMPLATE AND FRACTION MITIGATION PLAN TO BE SUBMITTED TO CSX FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION

LEGEND		PIPELINE CONTENT DETAILS	
Letter	Description		
(a)	Distance from centerline of track to CSX R/W	Commodity Description:	WATER
(b)	Distance from base-of-rail to top-of-casing	Maximum Operating Pressure:	350 PSI
(c)	Distance from base-of-ditch to top-of-casing	Is Commodity Flammable:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		CARRIER/CASING PIPE DETAILS	
(d)	Total length of pipe on CSX R/W	Carrier Pipe	Casing Pipe
(e)	Distance from centerline of nearest track to face of pits at a 90 degree angle to the track(s)	Pipe Material:	DUCTILE IRON / STEEL
(f)	Distance from top-of-vent pipe to ground surface (4' minimum required)	Material Specifications & Grade:	CL 350 / ASTM-A-139, GRADE B
(g)	Distance from centerline of track to vent pipe at a 90 degree angle to the track(s)	Specified Minimum Yield Strength:	42,000 / 35,000
(h)	Theoretical Embankment Line: Starts 12' from centerline of track and extends away from track at a slope of 1.5' over and 1' down	Nominal Size Outside Diameter (Inches):	13.20 / 24
(i)	Carrier pipe diameter	Wall Thickness (Inches):	.28 / .25
(j)	Casing pipe diameter	Type of Seam:	N/A / BUTT WELD
(k)	Depth of Launching/Receiving Pit	Type of Joints:	PUSH ON RJ / N/A
		Tunnel Liner Plates Required:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		Cathodic Protection:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Type: _____
		Protective Coating:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Type: BITUMINOUS
		Temp. Track Support or Rip-Rap Req.:	<input type="checkbox"/> Yes <input type="checkbox"/> No Must Describe & Show on Dwg.



Location:	CASTLE HAYNE, NC
Latitude:	N 35 : 43 : 49 . 6
Longitude:	W 78 : 51 : 02 . 6
Drawing No.:	CFA1801 Sheet: 2 of 2
Drawing Date:	03 / 08 / 19 Revised: 03 / 08 / 19/
Drawing Scale: V	1 Inches = 5 Feet
Drawing Scale: H	1 Inches = 50 Feet