

# PROJECT DATA

Name, Address, and Parcel IDs:	Name: Apex West Greenway Address: 2925 Olive Chapel Rd. Apex, NC 27502 Parcel IDs: 0711-98-6221 0721-09-5966 0721-09-7915 0721-09-4462
Project Coordinates:	Latitude: 35.728355° Longitude: -78.930904°
Preparer:	Company Name: Wetherill Engineering Contact Name: Jonathan Hefner Address: 1223 Jones Franklin Rd. Raleigh, NC 27606 Phone: 919-851-8077 Email: <a href="mailto:jhefner@wetherilleng.com">jhefner@wetherilleng.com</a>
Owner:	Town of Apex
Contract Purchaser:	Name: Town of Apex Parks & Recreation Contact Name: Andrew Havens Address: 73 Hunter St. Apex, NC 27502 Phone: 919-249-3400 Email: <a href="mailto:drew.havens@apexnc.org">drew.havens@apexnc.org</a>
Annexation Number:	N/A
Zoning:	N/A
Current 2045 Land Use:	Rural Density Residential
Area of Tracts:	2 acres
Required setbacks:	N/A
Watershed Protection Overlay District:	Primary
FEMA:	Outside 100-yr floodplain for Reedy Branch
Gross Area of Buildings:	N/A
Gross Floor Area:	N/A
Building Height:	N/A
Minimum Number of Parking Spaces Required:	N/A
Maximum Number of Parking Spaces Permitted:	N/A
Parking Spaces Provided:	N/A
Number of Handicapped Spaces:	N/A
Percentage of Parking on Side and Rear:	N/A
Amount and Percentage of Built Upon Area Allowed:	N/A
Amount and Percentage of Built Upon Area Proposed:	N/A
Gross Area and Percent of RCA Required:	N/A
Gross Area and Percent of RCA Provided:	N/A
Historic Structures:	No
Two Community Amenities:	N/A
Type of Grading:	N/A
Natural Drainage Patterns Preserved:	95%

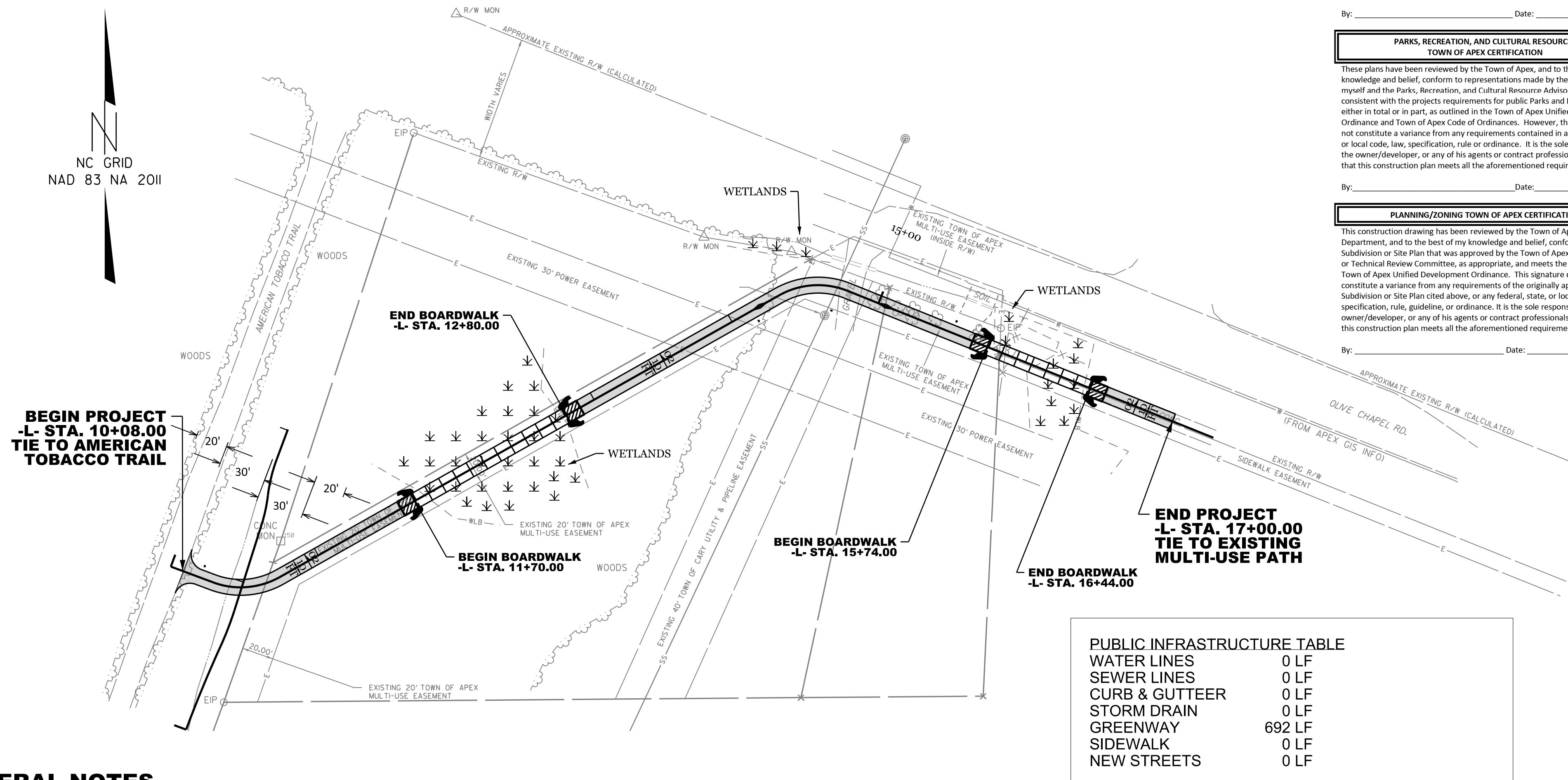
# CONSTRUCTION PLANS FOR:

## TOWN OF APEX NORTH CAROLINA

# APEX WEST GREENWAY

LOCATION:  
FROM OLIVE CHAPEL RD. TO AMERICAN TOBACCO TRAIL

TYPE OF WORK:  
GRADING, PAVING, STRUCTURE, DRAINAGE, & EROSION CONTROL



WATER LINES	0 LF
SEWER LINES	0 LF
CURB & GUTTEER	0 LF
STORM DRAIN	0 LF
GREENWAY	692 LF
SIDEWALK	0 LF
NEW STREETS	0 LF

**\*\*\*CAUTION\*\*\***

N.C. ONE CALL: UTILITY LOCATOR SERVICE

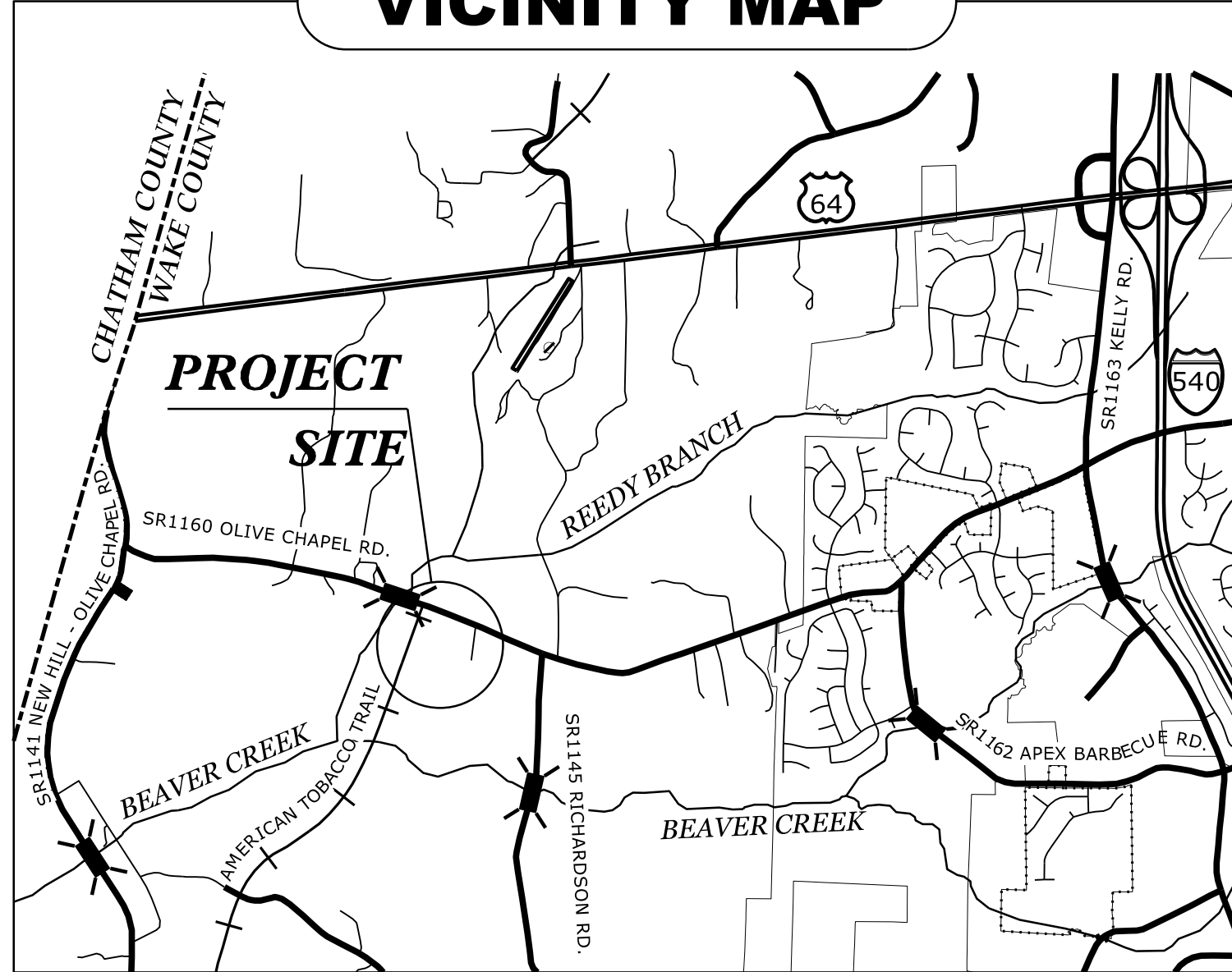
3 DAYS BEFORE DIGGING CALL  
TOLL FREE 1-800-632-4949

A ONE CALL SYSTEM FOR COMMUNITY AND JOB SAFETY

**\*\*\*CAUTION\*\*\***

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

# VICINITY MAP



# GENERAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL ILLUSTRATED KNOWN UNDERGROUND ELEMENTS. ADDITIONALLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXERCISING REASONABLE EFFORTS TO PROTECT ANY UNKNOWN UNDERGROUND ELEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF UNKNOWN ELEMENTS ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE ILLUSTRATED DESIGN.
- PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC, AND ALL OF THE OWNER'S FACILITIES. SHOULD DAMAGES OCCUR, CONTRACTOR SHALL REPAIR IMMEDIATELY AS DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL HOLD HARMLESS THE OWNER AND THE ENGINEER FOR DAMAGES, INJURIES OR OTHER ACCIDENTS WHICH OCCUR DURING THESE CONSTRUCTION ACTIVITIES.
- TREES AND EXISTING LANDSCAPING NOT DESIGNATED FOR REMOVAL SHALL BE PROTECTED DURING CONSTRUCTION.
- ALL ELEVATIONS ARE IN REFERENCE TO DESIGNATED BENCHMARKS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATION OF ALL ILLUSTRATED CONSTRUCTION ACTIVITIES AT THE JOB SITE.
- CONTRACTOR SHALL PROVIDE EXCAVATION AND TRAFFIC CONTROL AS REQUIRED BY LOCAL AUTHORITIES AND ALL APPLICABLE OSHA REGULATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT HIS EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION ADJUSTMENTS OF ALL EXISTING VAULTS (REGARDLESS OF FUNCTION), METER BOXES, FIRE HYDRANTS, CLEAN OUTS, MANHOLES ETC. TO MATCH FINISHED GRADES AND SITE PLAN. ALL SUCH WORK SHALL BE COORDINATED WITH THE ENGINEER.
- UTILIZE SIGNS, BARRICADES, FLAG MEN, OR GUARDS, PER NCDOT STANDARDS, AS REQUIRED TO ENSURE THE SAFETY OF ALL VEHICULAR AND PEDESTRIAN TRAFFIC DURING ALL CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND ADJACENT PROPERTY OWNERS AS REQUIRED FOR WORK OUTSIDE OF PROPERTY LINES.
- UNDER ABSOLUTELY NO CIRCUMSTANCES SHALL ANY UNMANNED EXCAVATION BE LEFT OPEN OR UNPROTECTED DURING NON-WORKED HOURS. UTILIZE SIGNS, BARRICADES, ETC. TO ENSURE THE SAFETY OF THE GENERAL PUBLIC.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT OF ALL WORK AS ILLUSTRATED ON PLANS. IF EXISTING CONDITIONS DIFFER FROM THOSE ILLUSTRATED ON PLANS, NOTIFY ENGINEER PRIOR TO CONSTRUCTION ACTIVITIES.
- VERIFY ALL DIMENSIONS AND GRADES AT THE JOB SITE. IF DIFFERENCES ARE FOUND, NOTIFY ENGINEER SO THAT MODIFICATIONS TO THESE DRAWINGS CAN BE MADE.
- ALL WORK TO BE PERFORMED ACCORDING TO OSHA SAFETY REGULATIONS.
- THE CONTRACTOR SHALL PROVIDE 24 HOURS NOTICE TO THE TOWN OF APEX FOR ALL REQUIRED INSPECTIONS.
- ALL UTILITIES OR STRUCTURES NOT DESIGNATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN AND BE PROTECTED FROM DAMAGE.
- ALL DEMOLITION WORK SHALL BE PERFORMED WITH "DUE CARE AND DILIGENCE" SO AS TO PREVENT THE ARBITRARY DESTRUCTION OR INTERRUPTION OF CONCEALED UTILITIES WHICH ARE INTENDED TO REMAIN IN USE. THE ROUTING OF WHICH COULD NOT BE PREDETERMINED UNTIL DEMOLITION WAS STARTED. ALL SUCH DISCOVERIES OF UTILITIES DURING THE DEMOLITION PROCESS WHICH ARE IN A LOCATION DIFFERENT FROM THAT INDICATED OR ARE UNIDENTIFIED, SHALL BE REPORTED TO THE ENGINEER AND OWNER BEFORE REMOVAL FOR FINAL DISPOSITION.
- ALL WASTE MATERIAL GENERATED FROM DEMOLITION WORK SHALL BE DISPOSED OF OFF SITE IN ACCORDANCE WITH TOWN OF APEX REGULATIONS.
- SALVAGEABLE FILL MATERIALS FROM SITE DEMOLITION DETERMINED TO BE ACCEPTABLE BY AN INDEPENDENT SOILS TESTING LABORATORY SHALL BE UTILIZED FOR FILL MATERIAL WHERE APPROPRIATE.
- ANY NOTE, OR REFERENCE TO ANY ELEMENT, WHICH DOES NOT SPECIFY ACTION BY THE CONTRACTOR SHALL BE CONSTRUED AS INFORMATION ONLY.
- ALL STRUCTURES/UTILITIES DESIGNATED FOR MODIFICATION SHALL BE PROTECTED BY THE CONTRACTOR DURING CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY THE NCDOT DISTRICT ENGINEER, IN ACCORDANCE WITH ALL DRIVEWAY PERMITS & ENCROACHMENT AGREEMENTS, PRIOR TO BEGINNING ANY WORK WITHIN THE STATE MAINTAINED RIGHT OF WAY.

# INDEX OF SHEETS

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EC-2	NCG01 SELF-INSPECTION
EC-3	EROSION CONTROL NOTES
EC-4	EROSION CONTROL DETAILS
EC-5	EROSION CONTROL CLEARING AND GRUBBING
EC-6	EROSION CONTROL FINAL
X-1	CROSS SECTIONS
X-2	CROSS SECTIONS
X-3	CROSS SECTIONS

NO.	DATE	DESCRIPTION

PLANS PREPARED FOR:

PROJECT CONTACT:  
ANGELA REINCKE  
PARKS AND GREENWAY PLANNER  
PO BOX 250  
APEX, NC 27502  
919.372.7468

TOWN OF APEX  
73 Hunter Street  
Apex, NC 27502

## APEX WEST GREENWAY

CONNECTION FROM  
OLIVE CHAPEL ROAD  
TO AMERICAN TOBACCO TRAIL

PLANS PREPARED BY:

1223 Jones Franklin Rd., Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077 Fax: 919 851 8107

ROADWAY ENGINEER

6/1/2020

HYDRAULICS ENGINEER

6/1/2020

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

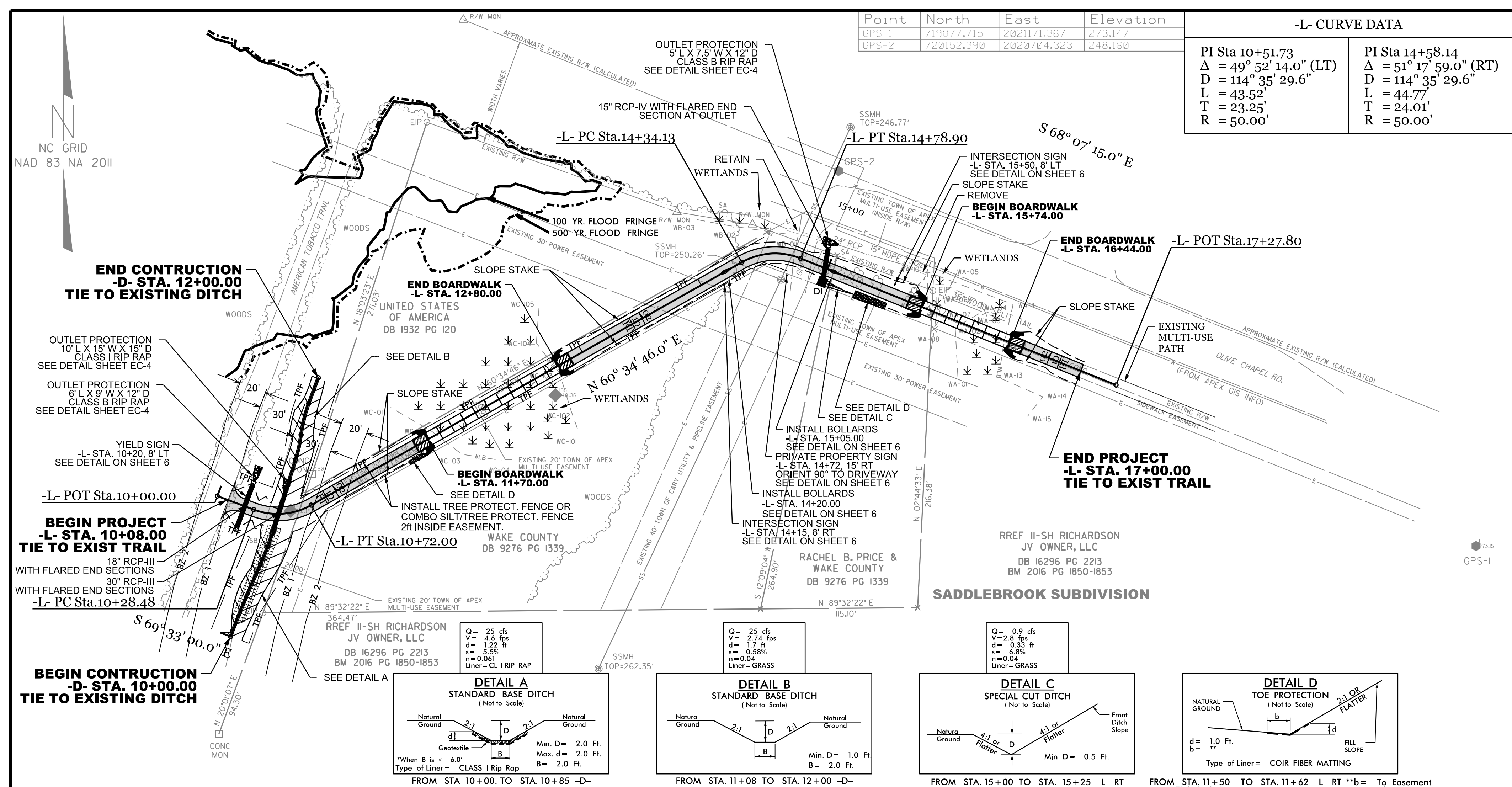
DATE: MARCH 4, 2020

COVER SHEET

WEI PROJECT NO.:

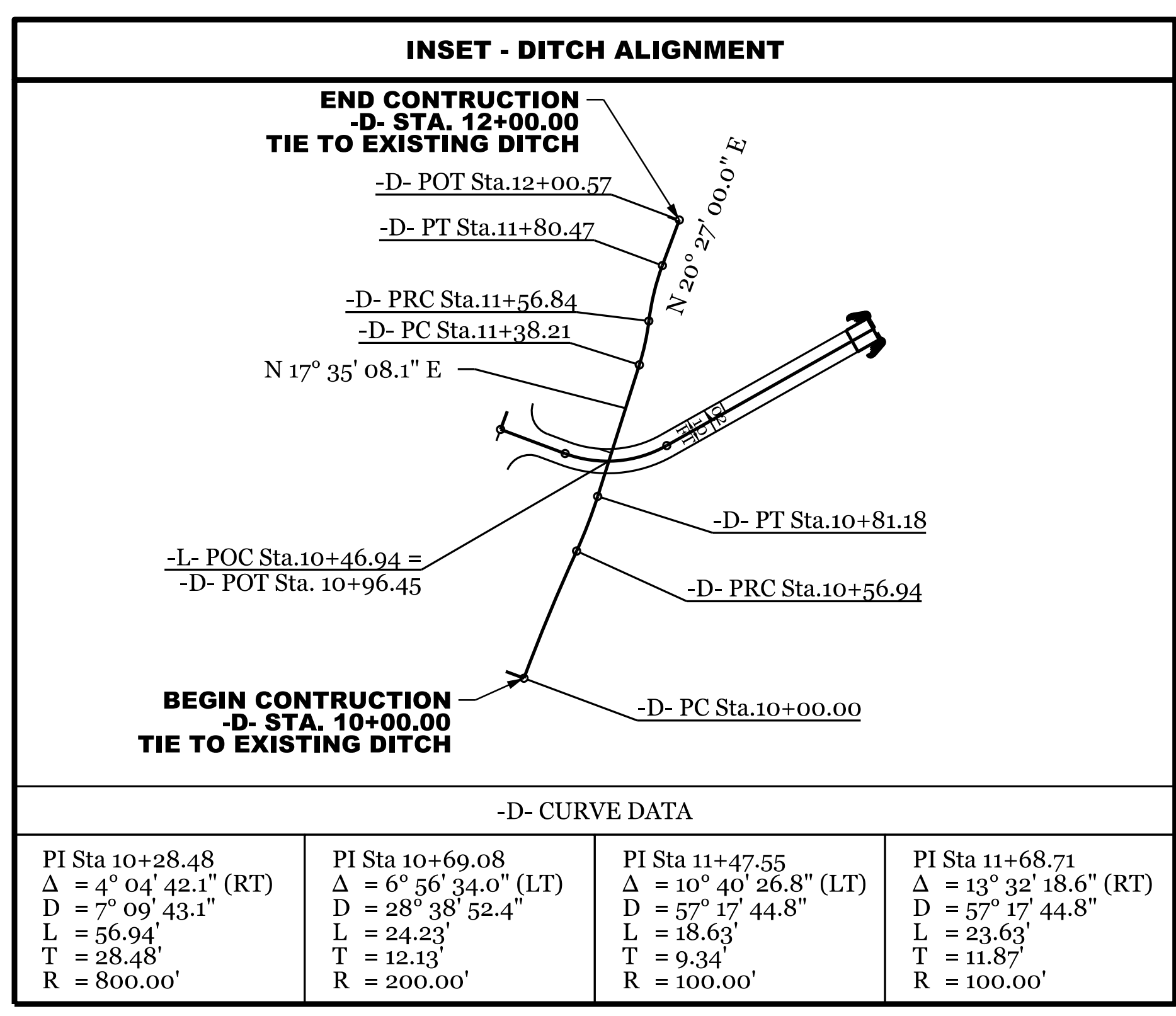
20326.01

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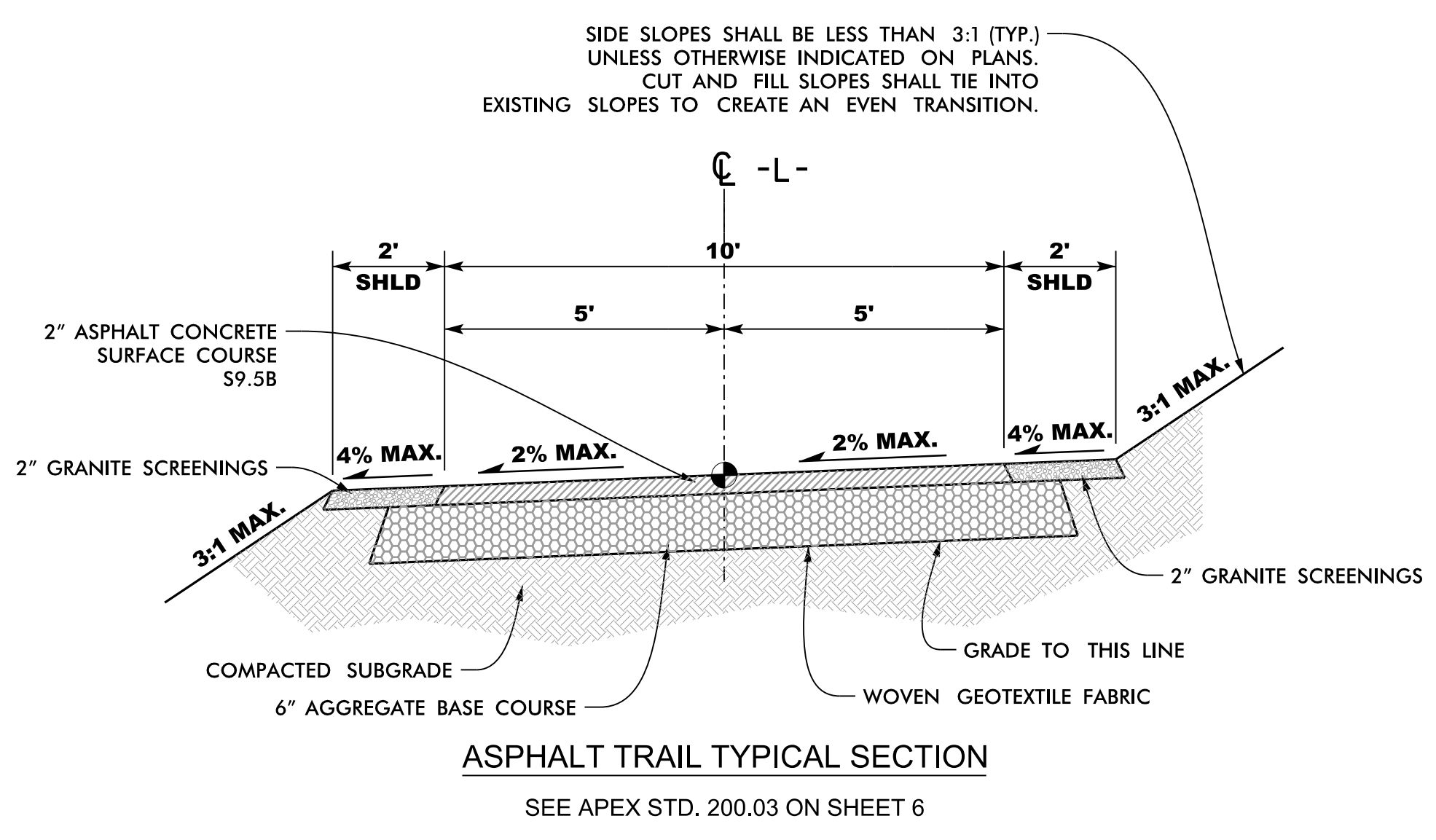
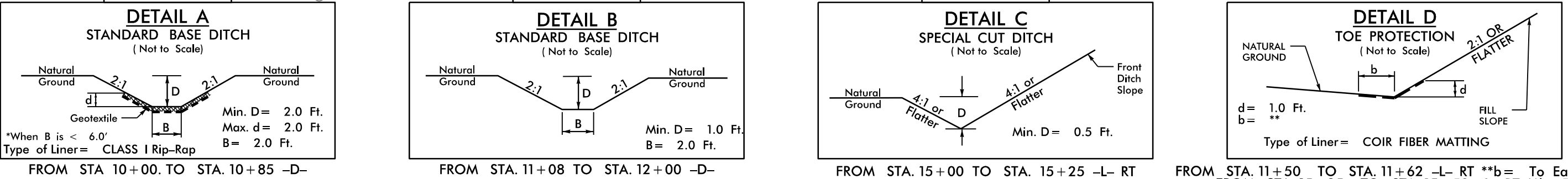


Point	North	East	Elevation
GPS-1	719877.715	2021171.367	273.147
GPS-2	720152.390	2020704.323	248.160

-L- CURVE DATA	
PI Sta 10+51.73 Δ = 49° 52' 14.0" (LT) D = 114° 35' 29.6" L = 43.52' T = 23.25' R = 50.00'	PI Sta 14+58.14 Δ = 51° 17' 59.0" (RT) D = 114° 35' 29.6" L = 44.77' T = 24.01' R = 50.00'

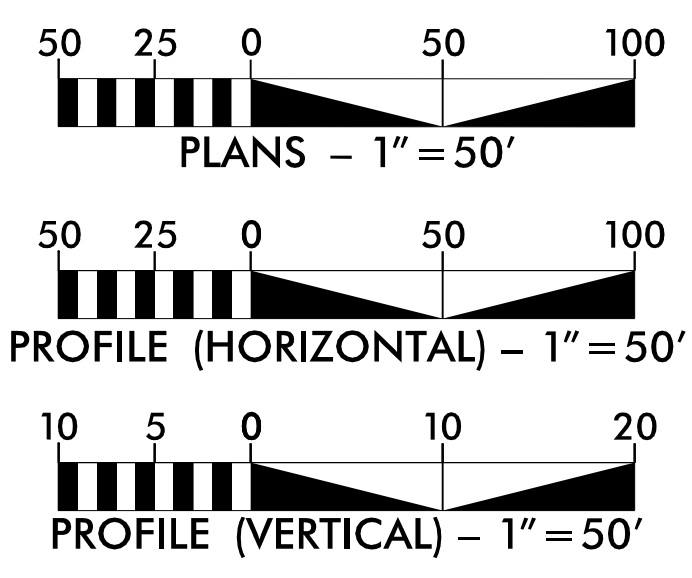


-D- CURVE DATA			
PI Sta 10+28.48 Δ = 4° 04' 42.1" (RT) D = 7° 09' 43.1" L = 56.94' T = 28.48' R = 800.00'	PI Sta 10+69.08 Δ = 6° 56' 34.0" (LT) D = 28° 38' 52.4" L = 24.23' T = 9.34' R = 200.00'	PI Sta 11+47.55 Δ = 10° 40' 26.8" (LT) D = 57° 17' 44.8" L = 18.63' T = 12.13' R = 100.00'	PI Sta 11+68.71 Δ = 13° 32' 18.6" (RT) D = 57° 17' 44.8" L = 23.63' T = 11.87' R = 100.00'



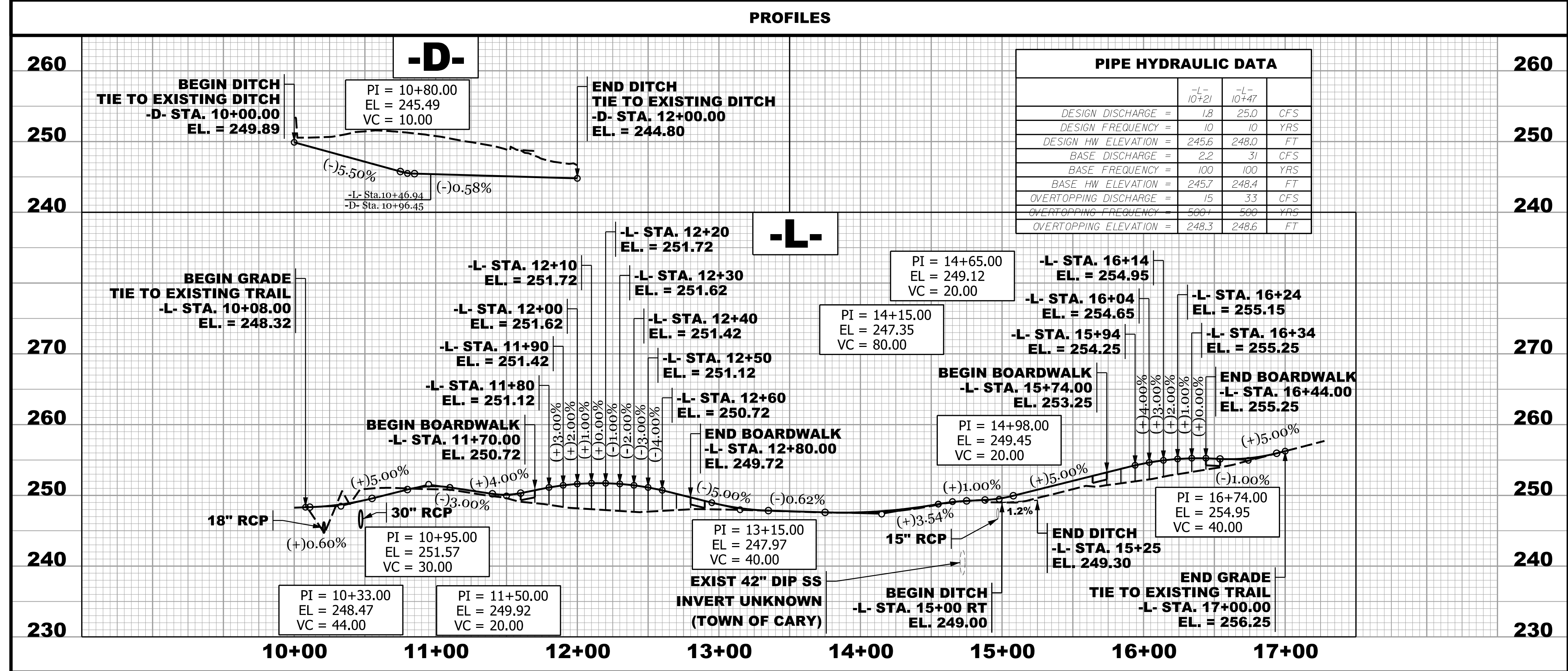
CHAIN	BEGIN STATION	END STATION
-L-	(TIE TO AMERICAN TOBACCO TRAIL) 10+08.00	11+70.00 (BEGIN BOARDWALK)
-L-	(END BOARDWALK) 12+80.00	15+74.00 (BEGIN BOARDWALK)
-L-	(END BOARDWALK) 16+44.00	17+00.00 (TIE TO EXISTING TRAIL)

NOTE:  
TRANSITION FROM 2% CROSS SLOPE TO 0% CROSS SLOPE AT BOARDWALK USING A 10' INCREMENT.  
USE 10' INCREMENT TO TRANSITION CROSS SLOPE TO EXISTING TRAIL.



The signatures affixed below certify that this sheet has been reviewed and approved solely per the certifications signed on the cover sheet of these construction plans.

PW - Transportation	Date	WR - Stormwater	Date
Building Inspections	Date	Planning	Date
WR - Utility Engineering	Date	Planning - Transportation	Date
Electric	Date	Fire	Date
WR - S&E	Date	Parks, Recreation & Cultural Res.	Date



PIPE HYDRAULIC DATA		
-L- 10+21	-L- 10+47	
DESIGN DISCHARGE = 1.8	25.0	CFS
DESIGN FREQUENCY = 10	10	YRS
DESIGN HW ELEVATION = 245.6	248.0	FT
BASE DISCHARGE = 2.2	31	CFS
BASE FREQUENCY = 100	100	YRS
BASE HW ELEVATION = 245.7	248.4	FT
OVERTOPPING DISCHARGE = 15	33	CFS
OVERTOPPING FREQUENCY = 500	500	YRS
OVERTOPPING ELEVATION = 248.3	248.6	FT

NO.	DATE	DESCRIPTION

PLANS PREPARED FOR:  
**Apex**  
TOWN OF APEX  
73 Hunter Street  
Apex, NC 27502

**APEX WEST GREENWAY**  
CONNECTION FROM  
OLIVE CHAPEL ROAD  
TO AMERICAN TOBACCO TRAIL

PLANS PREPARED BY:  
**WETHERILL ENGINEERING**  
1223 Jones Franklin Rd., Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077 Fax: 919 851 8107

ROADWAY ENGINEER  
**WETHERILL ENGINEERING**  
SEAL 35016  
7/1/2020

HYDRAULICS ENGINEER  
**WETHERILL ENGINEERING**  
SEAL 019721  
7/1/2020

DATE: MARCH 4, 2020  
WEI PROJECT NO.:  
**20326.01**  
PLAN & PROFILE SHEET  
**5**