



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, SAVANNAH DISTRICT
100 W. OGLETHORPE AVENUE
SAVANNAH, GEORGIA 31401-3604

March 9, 2021

Regulatory Division
SAS-2010-00170

JOINT PUBLIC NOTICE
Savannah District/State of Georgia

The Savannah District has received an application for a Department of the Army Permit, pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Section 404 of the Clean Water Act (33 U.S.C. 1344), as follows:

Application Number: SAS-2010-00170

Applicant: Mr. Eric Duff
State Environmental Administrator
Georgia Department of Transportation
600 West Peachtree Street NW, 16th Floor
Atlanta, Georgia 30308

Location of Proposed Work: In waters and wetlands located north of State Route (SR) 25/Main Street and east of the SR 21 Spur/Brampton Road in Garden City, Chatham County, Georgia. The approximate project mid-point would be located at Latitude 32.1052, Longitude -81.1412.

Description of Work Subject to the Jurisdiction of the U.S. Army Corps of Engineers: Georgia Department of Transportation, Project Identification Number 0006328, proposes to construct a new location roadway, the Brampton Road Connector, beginning at the intersection of SR 25/Main Street and the SR 25 Connector/Burnsed Boulevard, and ending at the existing SR 21 Spur/Brampton Road in Garden City. The new roadway's departure from SR 25/Main Street would form a fourth leg at the SR 25/Main Street and SR 25 Connector/Burnsed Boulevard intersection, extending in a northerly direction to connect with the existing SR 21 Spur/Brampton Road. The main proposed typical sections would be a 4-lane rural section (2 lanes in each direction) with an 8-foot raised median and a 14-foot flush median closer to the industries to provide a dedicated left-turn lane. The total project length would be approximately 1.2 miles.

The project would result in impacts to 15.82 acres of wetlands and canals. Proposed project impacts would be compensated through the purchase of 119.99 grandfathered wetland mitigation credits (2018 SOP wetland credits = 15.0 credits). Both freshwater (38.49 grandfathered/2018 SOP freshwater wetland credits = 4.81 credits) and freshwater tidal (81.50 grandfathered/2018 SOP freshwater tidal wetland credits = 10.19 credits) wetland credits would be required for the project. The applicant purchased 38.49 freshwater wetland credits from the AA Shaw Wetland Mitigation Bank on

July 30, 2020. On February 3, 2021, the applicant purchased 68.88 of the required 81.50 grandfathered freshwater tidal wetland credits from the Vallambrosa Wetland Mitigation Bank. The remaining 12.62 freshwater tidal wetland credits would be acquired prior to constructing the proposed project impacts.

BACKGROUND

The existing SR 21 Spur/Brampton Road currently provides the sole access to several commercial operations along Brampton Road, including Gate 3 of the Georgia Ports Authority's Garden City Terminal. This access is frequently blocked for extended periods of time by railroad switching operations that occupy an existing railroad/roadway at-grade crossing near the SR 21 Spur/Brampton Road intersection with SR 25/Main Street. The proposed project would remove this impediment. The existing SR 21 Spur/Brampton Road leg on the northeast side of SR 25/Main Street would be removed as part of this project, thereby eliminating the at-grade railroad crossing, leaving a T-intersection. The existing railroad/roadway at-grade crossing at this location would be the northern terminus of a railroad relocation included in the project. The railroad relocation would shift the existing railway from its current location, running parallel to SR 25/Main Street, in an easterly direction to develop a grade separation with the new Brampton Road Connector. From the grade separation, the relocated railway would follow the east side of Brampton Road Connector before rejoining the current railway alignment near Foundation Drive. A new railroad bridge is proposed for construction over the Dundee Canal. The new railroad bridge would be 168 feet long and 64 feet wide.

The Brampton Road Connector project would also include a new bridge that carries roadway over the relocated railway, the existing Norfolk Southern spur tracks, a wetland, and the Dundee Canal. The proposed roadway bridge would be 1,864 feet long and 76 feet wide.

An Aquatic Resources Delineation Review was completed for the project on July 28, 2017.

This Joint Public Notice announces a request for authorizations from both the U.S. Army Corps of Engineers and the State of Georgia. The applicant's proposed work may also require local governmental approval.

STATE OF GEORGIA

Water Quality Certification: The Georgia Department of Natural Resources, Environmental Protection Division (EPD), will review the proposed project for water quality certification, in accordance with the provisions of Section 401 of the Clean Water Act. Prior to issuance of a Department of the Army permit for a project location in, on, or adjacent to the waters of the State of Georgia, review for Water Quality Certification

is required. A reasonable period of time, which shall not exceed one year, is established under the Clean Water Act for the State to act on a request for Water Quality Certification, after which, issuance of such a Department of the Army permit may proceed. The applicant indicated via email on January 25, 2021, that they had submitted a pre-certification meeting request to EPD on January 22, 2021.

State-owned Property and Resources: The applicant may also require assent from the State of Georgia, which may be in the form of a license, easement, lease, permit or other appropriate instrument.

Georgia Coastal Management Program: Prior to the Corps making a final permit decision on this application, the project must be certified by the Georgia Department of Natural Resources, Coastal Resources Division, to be consistent with applicable provisions of the State of Georgia Coastal Management Program (15 CFR 930). Anyone wishing to comment on Coastal Management Program certification of this project should submit comments in writing within 30 days of the date of this notice to the Federal Consistency Coordinator, Coastal Management Program, Coastal Resources Division, Georgia Department of Natural Resources, One Conservation Way, Brunswick, Georgia 31523-8600 (Telephone 912-264-7218).

U.S. ARMY CORPS OF ENGINEERS

The Savannah District must consider the purpose and the impacts of the applicant's proposed work, prior to a decision on issuance of a Department of the Army Permit.

Cultural Resources Assessment: Two cultural resources eligible for listing in the National Registry of Historic Places were identified within the project's permit area: Brampton Plantation Battlefield Historic District (which includes and shares a boundary with contributing archaeological site 9CH1191) and the Brampton/Imbrie Securities Company Industrial District.

Due to anticipated adverse effects to the Brampton Plantation Battlefield Historic District and the Brampton/Imbrie Securities Company Industrial District, a Memorandum of Agreement (MOA) with mitigation stipulations was developed and executed by the Georgia State Historic Preservation Officer, the Corps, and all consulting parties. The final version of the MOA was provided to the Advisory Council on Historic Preservation and all invited signatures and concurring parties on March 6, 2020.

Essential Fish Habitat (EFH): This notice reinitiates the EFH consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal may result in the destruction or alteration of EFH utilized by various life stages of species comprising the snapper grouper management complex and penaeid shrimp. Our initial determination is that the proposed action would result in an "adverse modification" to EFH but would not have an individual or cumulatively

substantial adverse impact on EFH or federally managed fisheries in the Atlantic Ocean. Our final determination relative to project impacts to EFH and the need for mitigation measures are subject to review by and coordination with the National Marine Fisheries Service (NMFS) and the South Atlantic Fisheries Management Council.

The Corps initiated coordination with NMFS under the Magnuson-Stevens Act on November 6, 2019. NMFS initially concurred that the project would have an adverse impact to EFH by letter dated December 5, 2019, and stated the NMFS had no EFH conservation recommendations. NMFS did however provide comments on an October 2019 Ecology Resource Survey and Assessment of Effects Report. NMFS comments were addressed in an August 2020 Revised Ecology Resource Survey and Assessment of Effects Report. Subsequently, the Corps reinitiated consultation with NMFS on September 9, 2020, which requested final concurrence with a determination of "Adverse Modification" to EFH. Final NMFS concurrence is pending.

Endangered Species: A review of the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation tool indicated the following listed species may occur in project area: wood stork (*Mycteria americana*) and West Indian manatee (*Trichechus manatus*). The Corps made a determination of "may affect, not likely to adversely affect" for the above species. Per this effect determination, informal consultation under Section 7 of the Endangered Species Act was initiated and a response was received from USFWS on October 18, 2019, and September 10, 2020, concurring that the project is not likely to adversely affect the wood stork or the West Indian manatee.

Pursuant to Section 7(c) of the Endangered Species Act of 1973, as amended (16 U.S.C. § 1531 et seq.), we request information from the U.S. Department of the Interior, USFWS, the U.S. Department of Commerce, National Oceanic and Atmospheric Administration, NMFS; or, any other interested party, on whether any species listed or proposed for listing may be present in the area.

Public Interest Review: The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors, which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and in general, the needs and welfare of the people.

Consideration of Public Comments: The Corps is soliciting comments from the public; federal, state, and local agencies and officials; Native American Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Application of Section 404(b)(1) Guidelines: The proposed activity involves the discharge of dredged or fill material into the waters of the United States. The Savannah District's evaluation of the impact of the activity on the public interest will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency, under the authority of Section 404(b) of the Clean Water Act.

Public Hearing: Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application for a Department of the Army permit. Requests for public hearings shall state, with particularity, the reasons for requesting a public hearing. The decision whether to hold a public hearing is at the discretion of the District Engineer, or his designated appointee, based on the need for additional substantial information necessary in evaluating the proposed project.

Comment Period: Anyone wishing to comment on this application for a Department of the Army Permit should submit comments by email to brian.moore@usace.army.mil. Alternatively, you may submit comments in writing to the Commander, U.S. Army Corps of Engineers, Savannah District, Attention: Mr. Brian Moore, 100 W. Oglethorpe Avenue, Savannah, Georgia 31401-3604, within 30 days from the date of this notice. Please refer to the applicant's name and the application number in your comments.

If you have any further questions concerning this matter, please contact Mr. Brian Moore, Project Manager, Management Branch at 912-652-5349.

Enclosures

1. Project Vicinity Map
2. Construction Plans with Wetland Impacts



Figure 1 - Project Vicinity Map
 Brampton Road Connector
 GDOT P.I. No. 0006328, Chatham County



13 Series Plansheets (Mainline Plans)

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA



PLAN AND PROFILE OF PROPOSED BRAMPTON ROAD CONNECTOR FROM SR 21/SR 25 TO SR 21 SPUR

**CSSTP-0006-00(328)
CHATHAM COUNTY**

FEDERAL ROUTE = I-516, US 80
STATE ROUTE = SR 21, SR 25, SR 26 CONN
P.J. NO. 0006328

NOTE:
ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO "STATE HIGHWAY DEPARTMENT OF GEORGIA"; "STATE HIGHWAY DEPARTMENT"; "GEORGIA STATE HIGHWAY DEPARTMENT"; "HIGHWAY DEPARTMENT"; OR "DEPARTMENT" WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.



LOCATION SKETCH

DESIGN DATA:
 TRAFFIC A.A.D.T.: 14975 (2024)
 TRAFFIC A.A.D.T.: 18950 (2044)
 TRAFFIC D.H.V.: 1640 (2044)
 DIRECTIONAL DIST: 55-45 (NB-SB)
 % TRUCKS: 41.5%(AM)/44.0%(PM)
 24 HR. TRUCKS %: 62.5%
 SPEED DESIGN: 35 MPH
 SR 25 SPEED DESIGN: 45 MPH

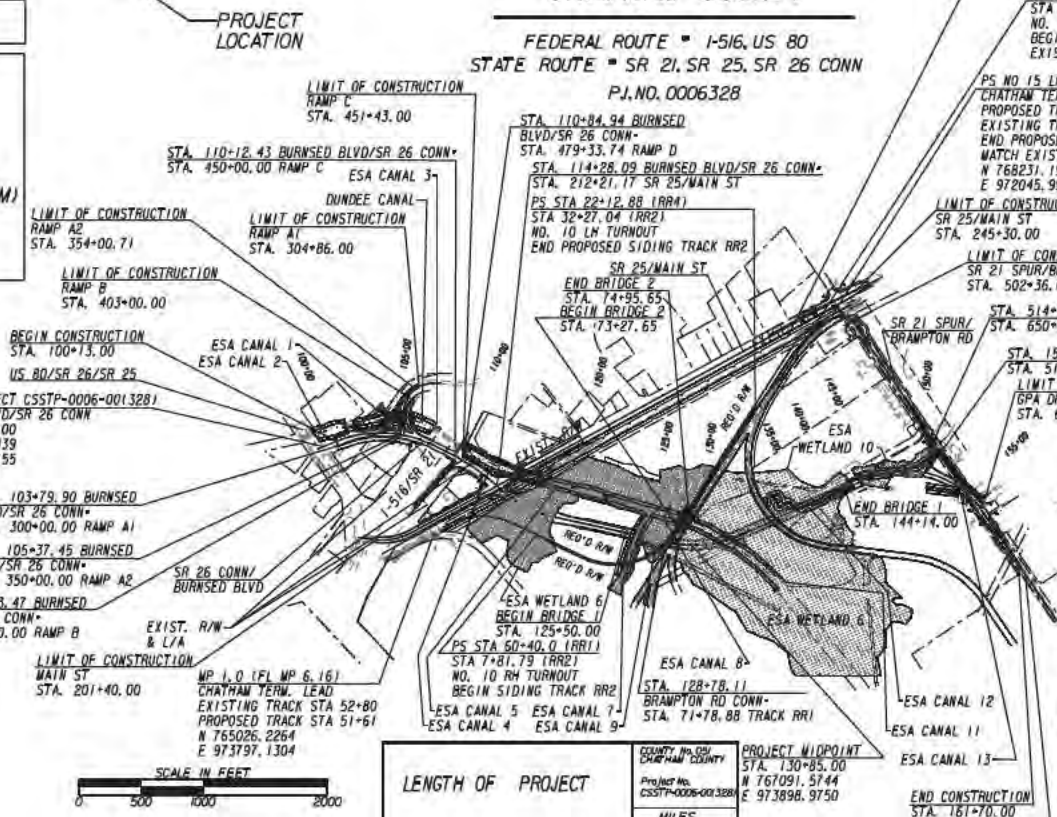
LOCATION & DESIGN APPROVAL DATE:
 FUNCTIONAL CLASS:
 URBAN COLLECTOR STREET
 THIS PROJECT IS 100% IN CHATHAM COUNTY AND IS 100% IN CONG. DIST. NO. 01.
 PROJECT DESIGNATION: EXEMPT
 DESIGNED IN ENGLISH UNITS.

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEODETIC COORDINATE SYSTEM OF 1984 (NAD 83) IN THE EAST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NADVD) OF 1988.

PROJECT MIDPOINT
 STA. 130+85.00
 N 767091.5744
 E 973898.9750

THIS PROJECT CONTAINS POST-CONSTRUCTION BMP'S.

THE DATA TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 1024, 1025, AND 10403 OF THE SPECIFICATIONS.



LENGTH OF PROJECT	
NET LENGTH OF ROADWAY	0.853
NET LENGTH OF BRIDGES	0.353
NET LENGTH OF PROJECT	1.206
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	1.206

PROJECT MIDPOINT
 STA. 130+85.00
 N 767091.5744
 E 973898.9750

END PROJECT CSSTP-0006-00(328)
 SR 21 SPUR/BRAMPTON RD CONN
 STA. 162+70.00
 N 769782.6668
 E 974135.9108

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS (TYP)

PS STA 26+23.91 (RR4)
 STA 31+39.68 (RR3)
 NO. 10 RH TURNOUT
 BEGIN SHIFTED
 EXISTING TRACK RRS

PS NO 15 LH TURNOUT
 CHATHAM TERMINAL LEAD MP 1.7
 PROPOSED TRACK RRI STA 94+62.46 BACK
 EXISTING TRACK STA 89+18 AHEAD
 END PROPOSED CTL TRACK RRI
 MATCH EXISTING CTL TRACK
 N 768231.1996
 E 972045.9957



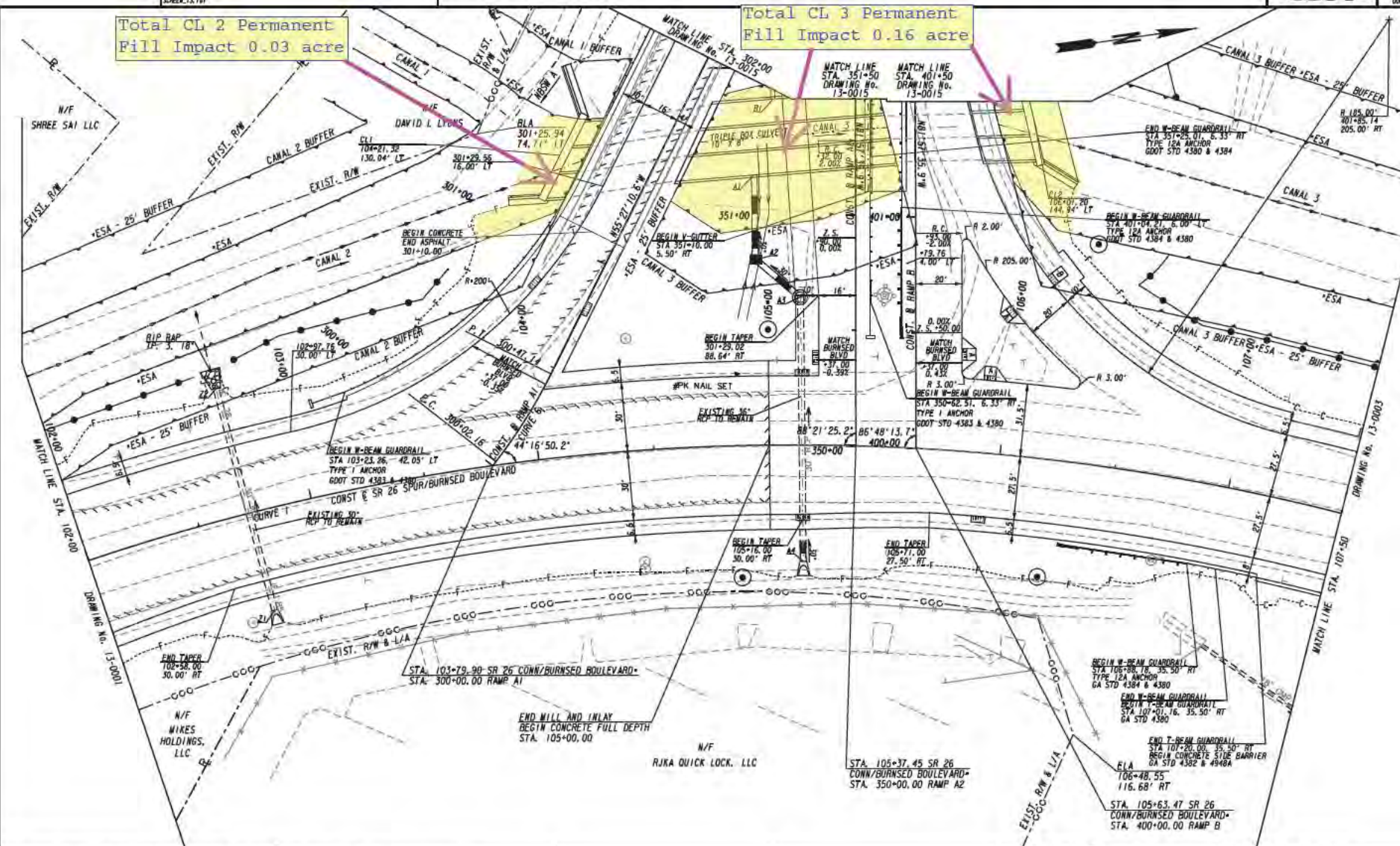
PLANS PREPARED BY:

moffatt & nichol
 UNDER THE SUPERVISION OF:
DARREN J. WILTON, PE

RECOMMENDED FOR SUBMISSION BY:	PROJECT MANAGER
SUBMITTED BY:	STATE PROGRAM DELIVERY ENGINEER
DATE	CHIEF ENGINEER
PLANS COMPLETED	--
REVISIONS	

Total CL 2 Permanent Fill Impact 0.03 acre

Total CL 3 Permanent Fill Impact 0.16 acre



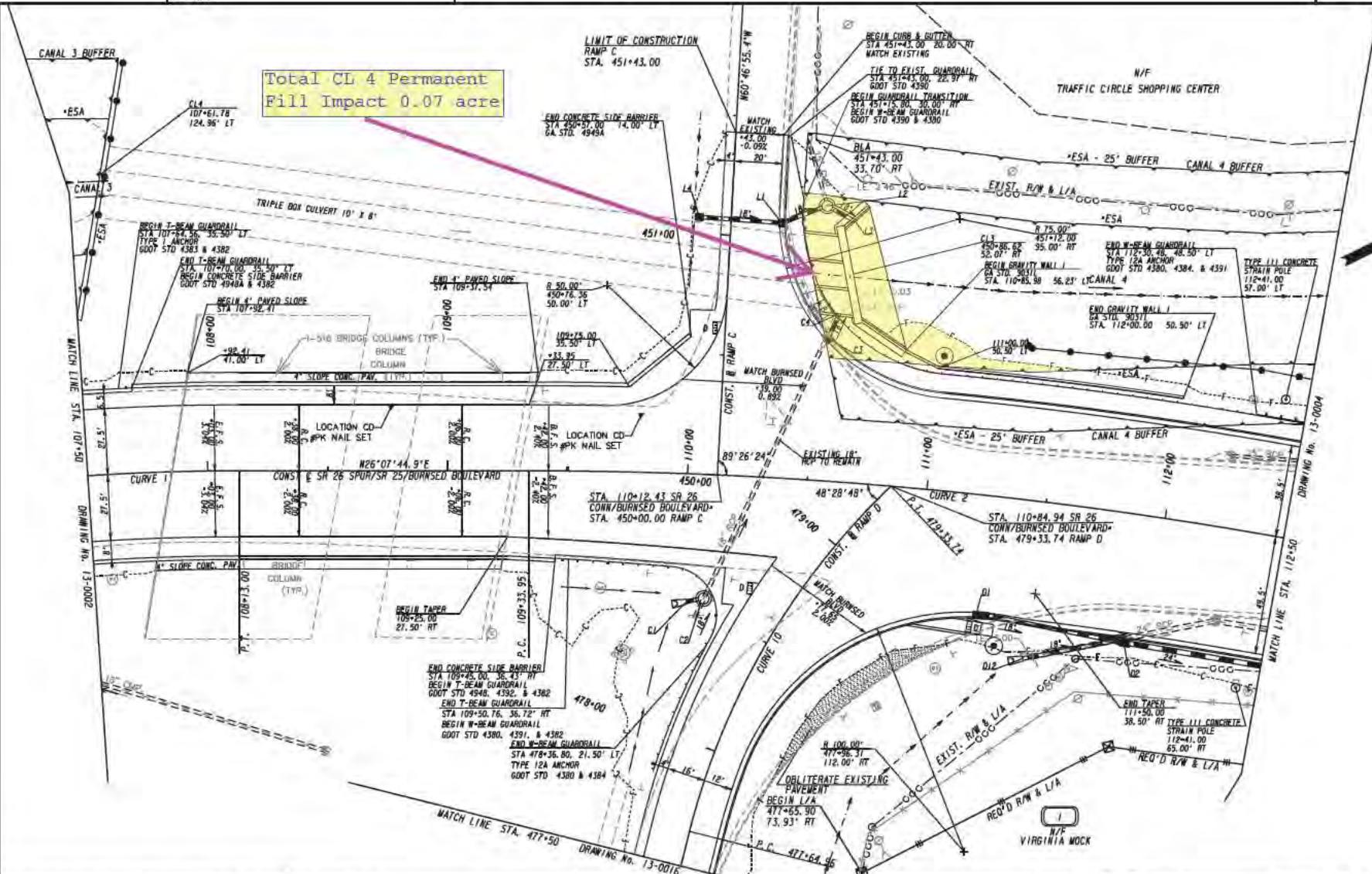
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 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
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 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

SCALE IN FEET

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	ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

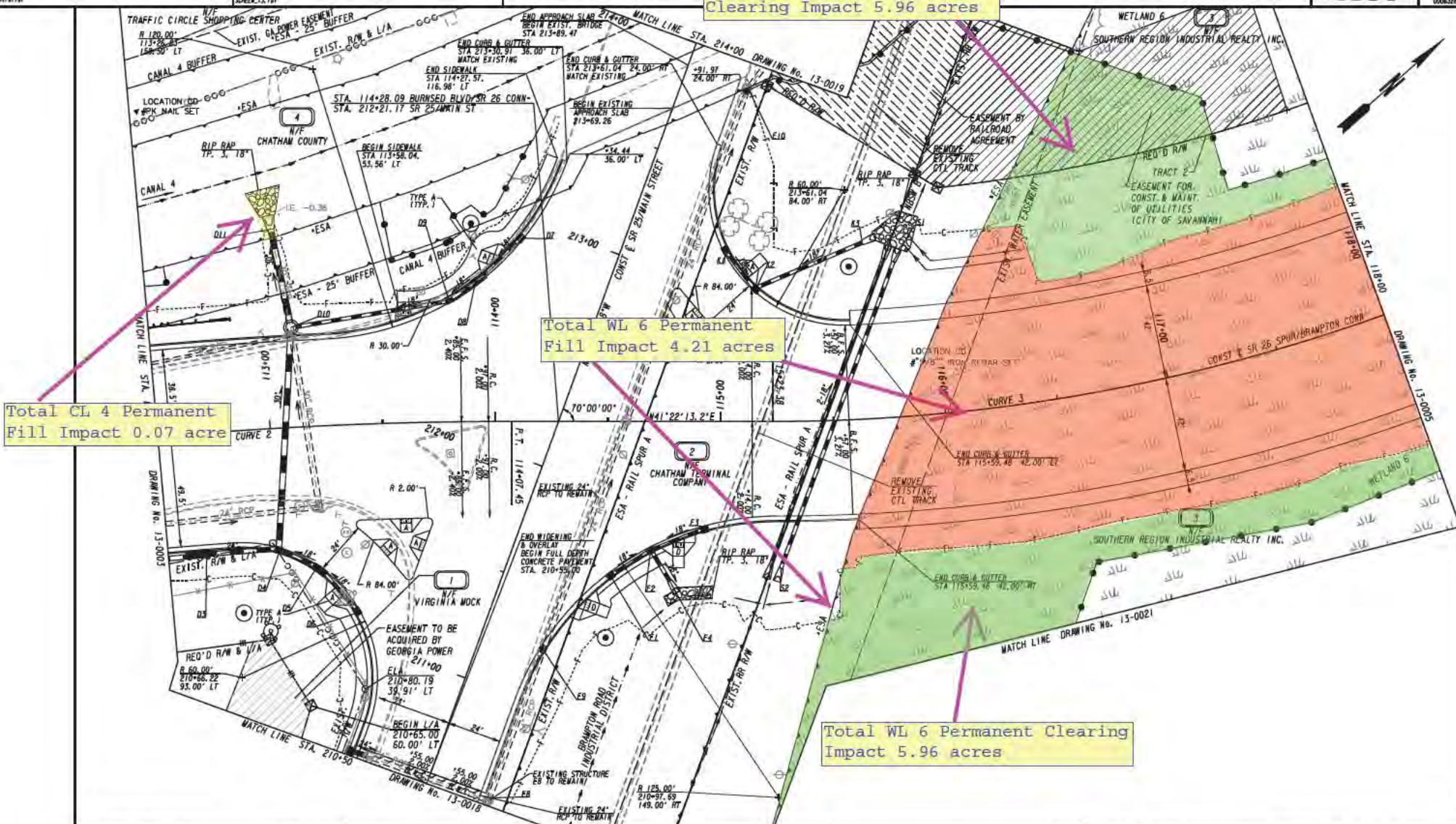
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Total CL 4 Permanent
Fill Impact 0.07 acre

Total WL 6 Permanent
Fill Impact 4.21 acres

Total WL 6 Permanent Clearing
Impact 5.96 acres

PROPERTY AND EXISTING R/W LINE
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---J--- ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)



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Total WL 6 Permanent Clearing Impact 5.96 acres

Total WL 6 Permanent Fill Impact 4.21 acres

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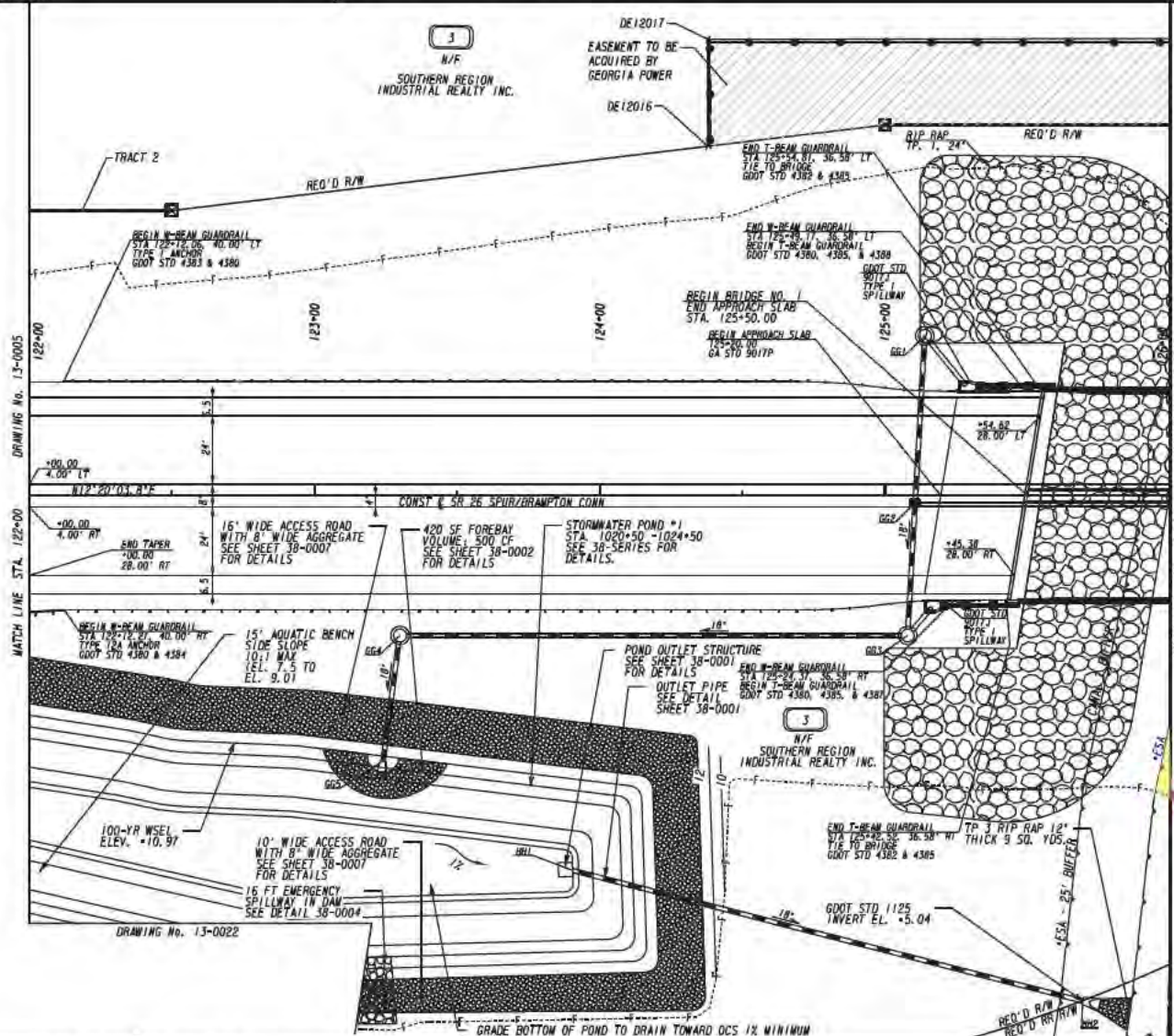
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 (SEE ERIT TABLE)



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Total Ch 7 Permanent Fill Impact 0.34 acre

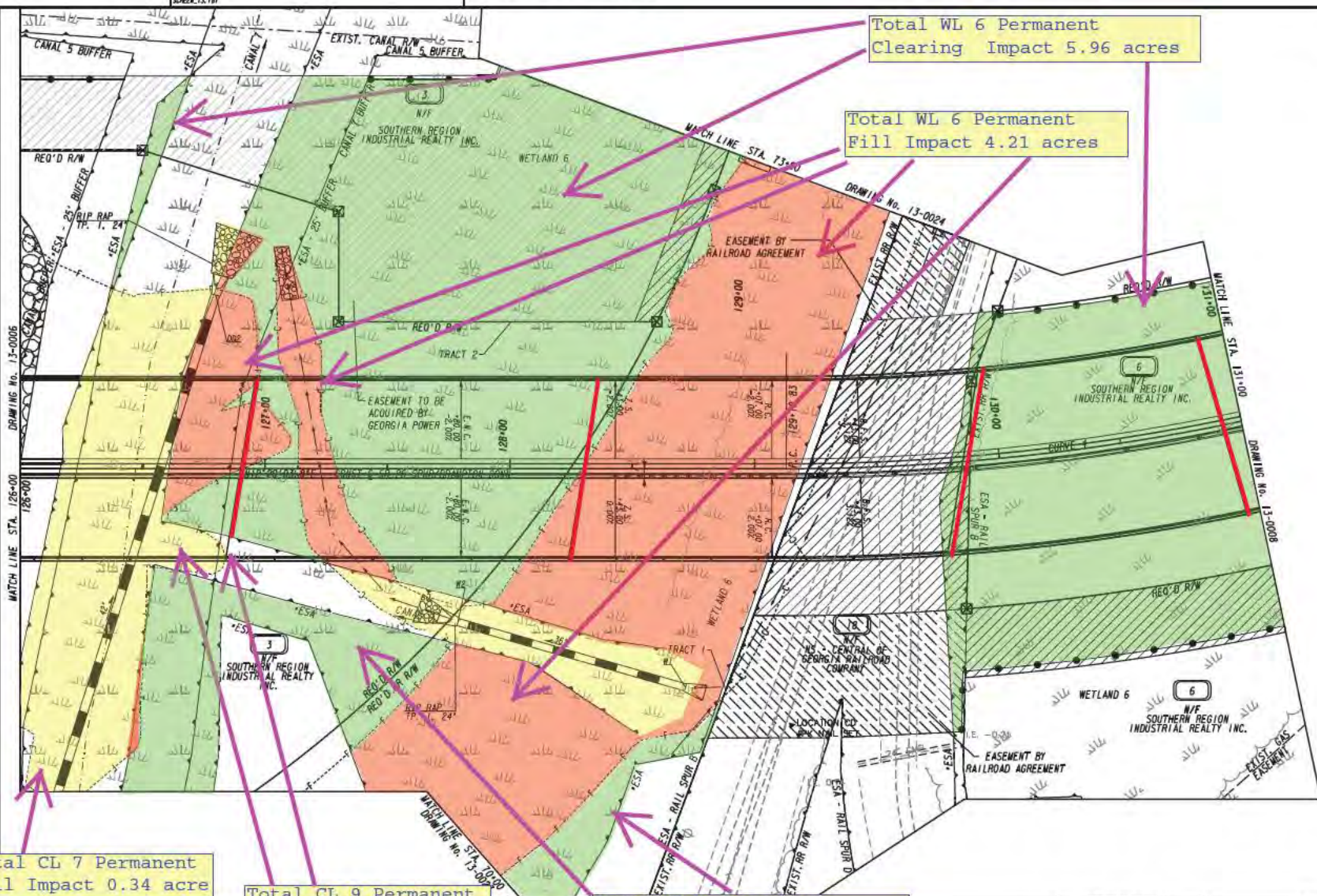
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Total WL 6 Permanent Clearing Impact 5.96 acres

Total WL 6 Permanent Fill Impact 4.21 acres

Total CL 7 Permanent Fill Impact 0.34 acre

Total CL 9 Permanent Fill Impact 0.08 acre

Total WL 6 Permanent Clearing Impact 5.96 acre

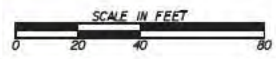
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 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



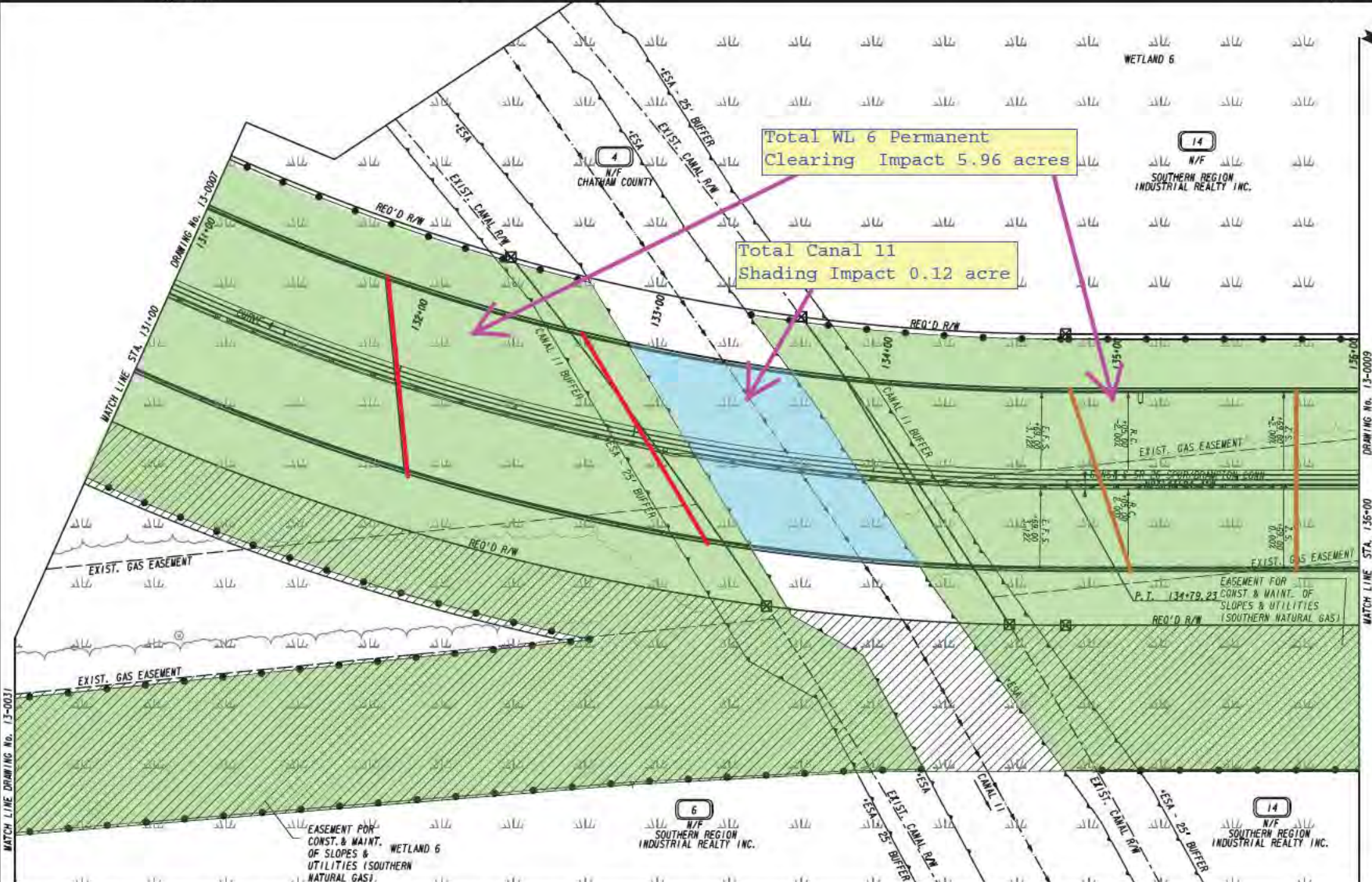
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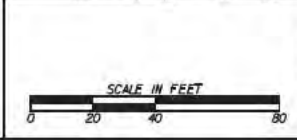
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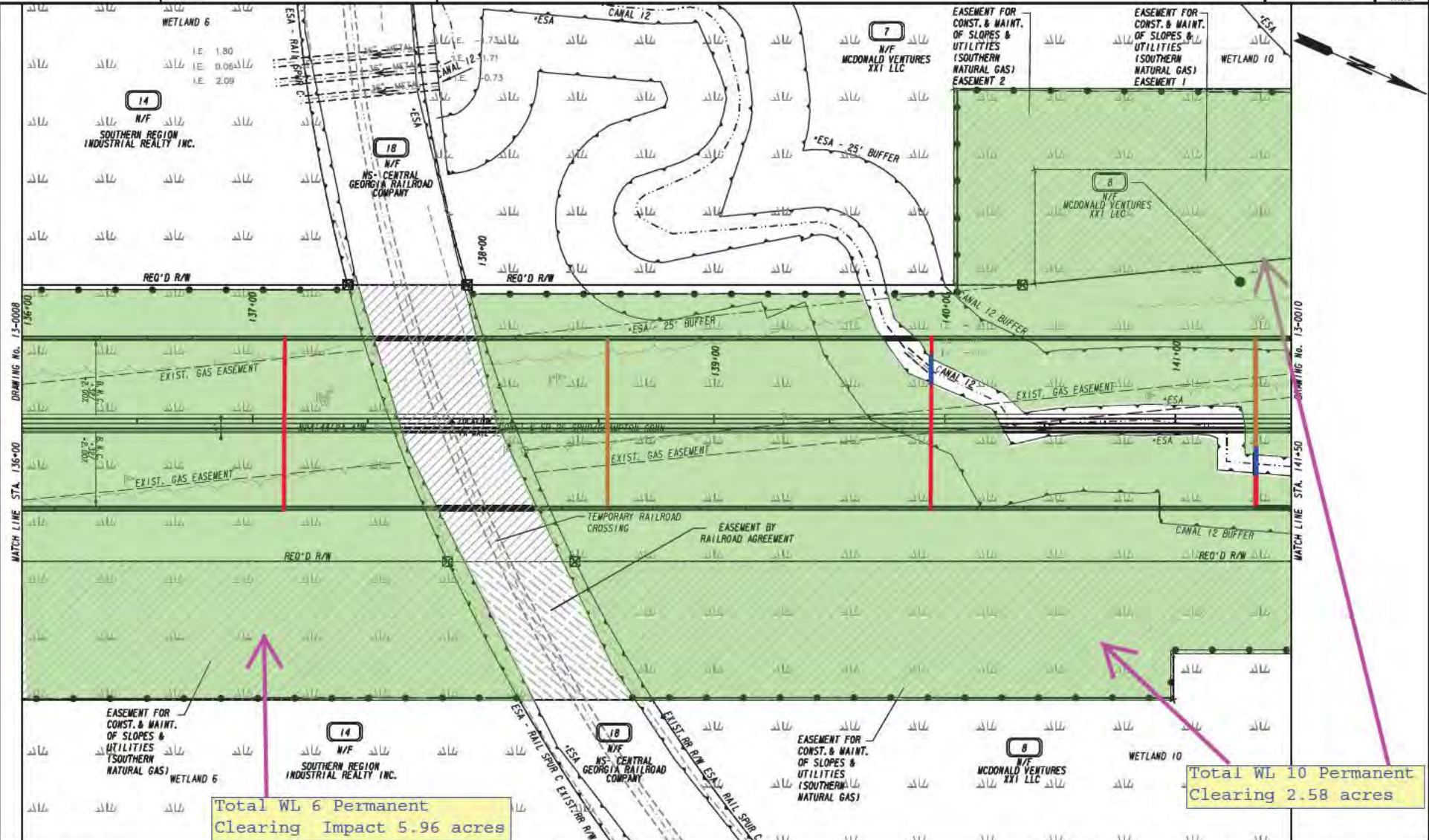
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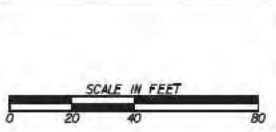


Total WL 6 Permanent Clearing Impact 5.96 acres

Total WL 10 Permanent Clearing 2.58 acres

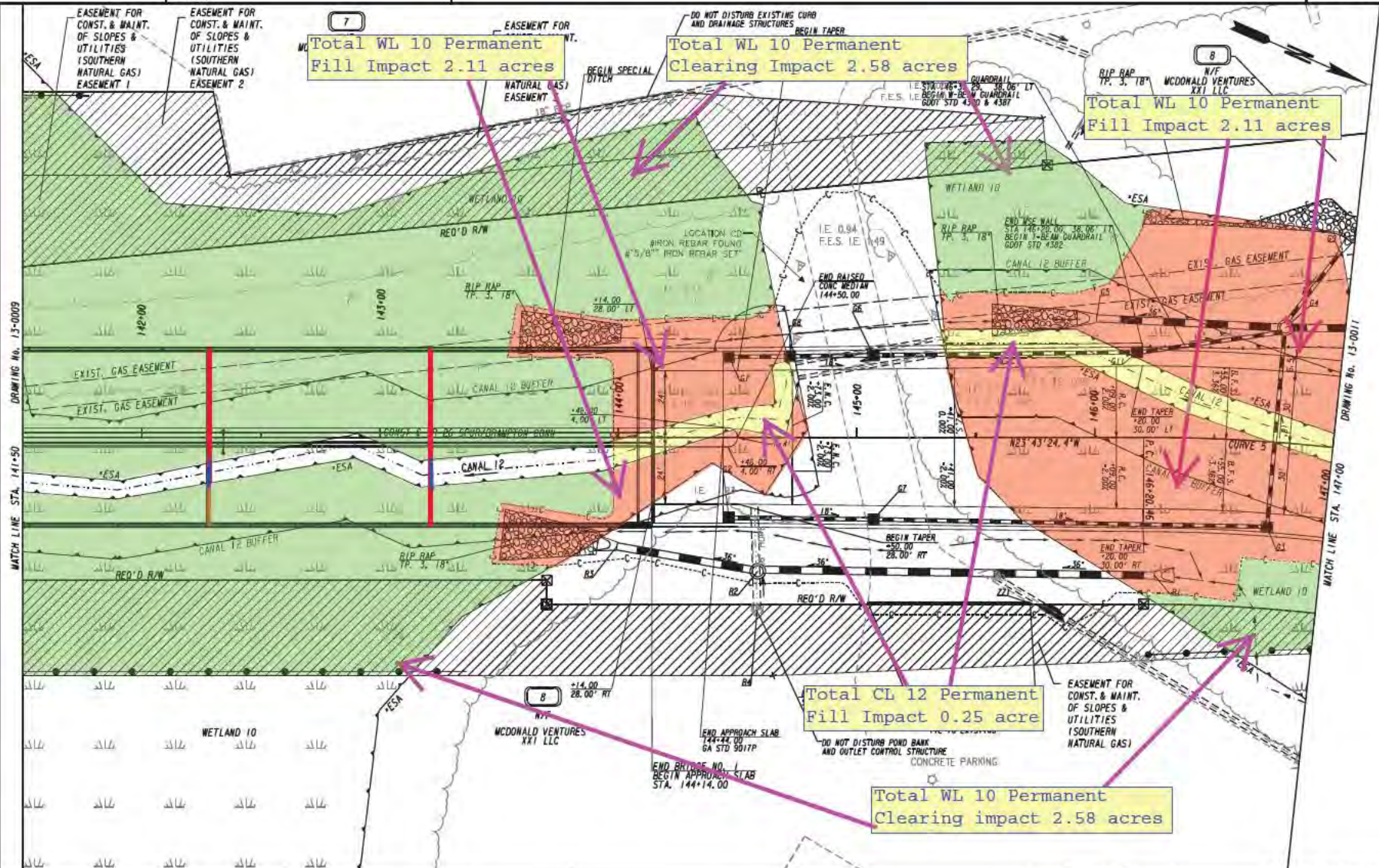
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 (SEE ERIT TABLE)



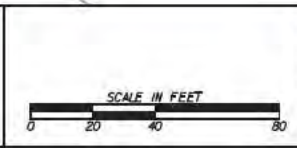
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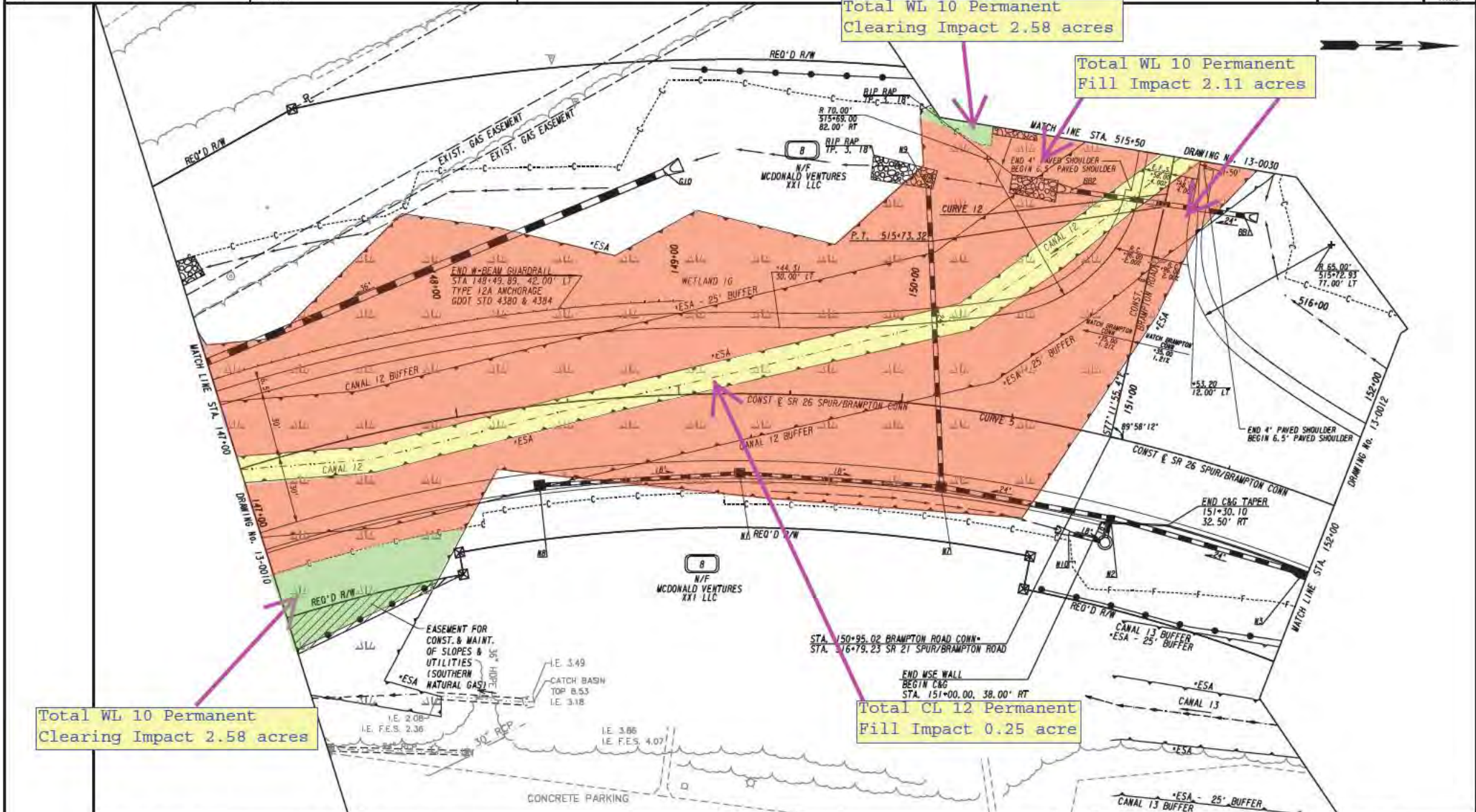
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 --- I --- ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	

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Total WL 10 Permanent Clearing Impact 2.58 acres

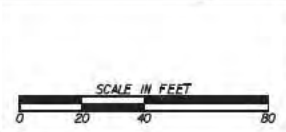
Total WL 10 Permanent Fill Impact 2.11 acres

Total WL 10 Permanent Clearing Impact 2.58 acres

Total CL 12 Permanent Fill Impact 0.25 acre

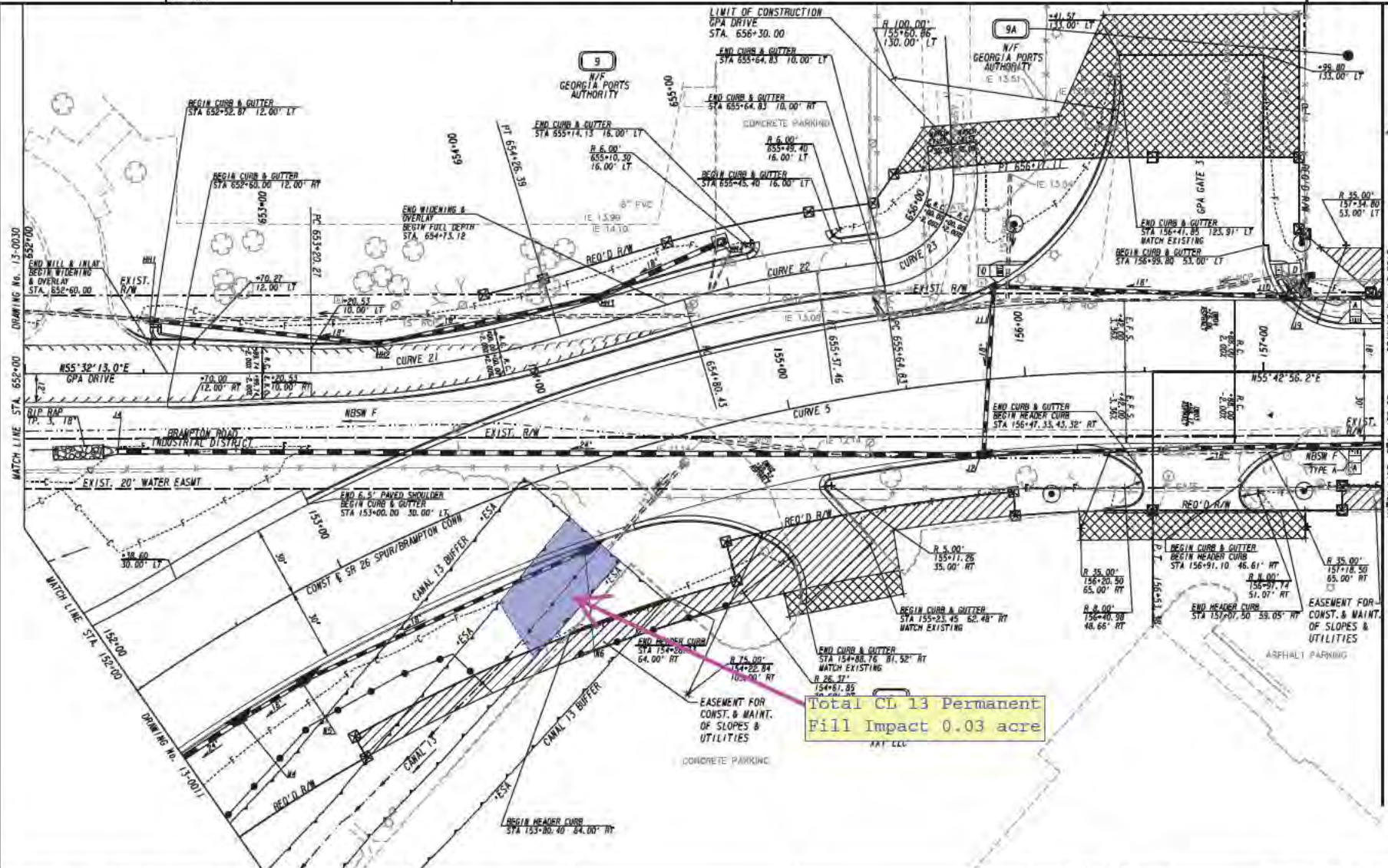
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 (SEE ERIT TABLE)



REVISION DATES	

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VERIFIED:	DATE:		

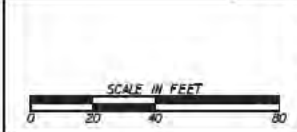


Total CL 13 Permanent
Fill Impact 0.03 acre

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

moffatt & nichol

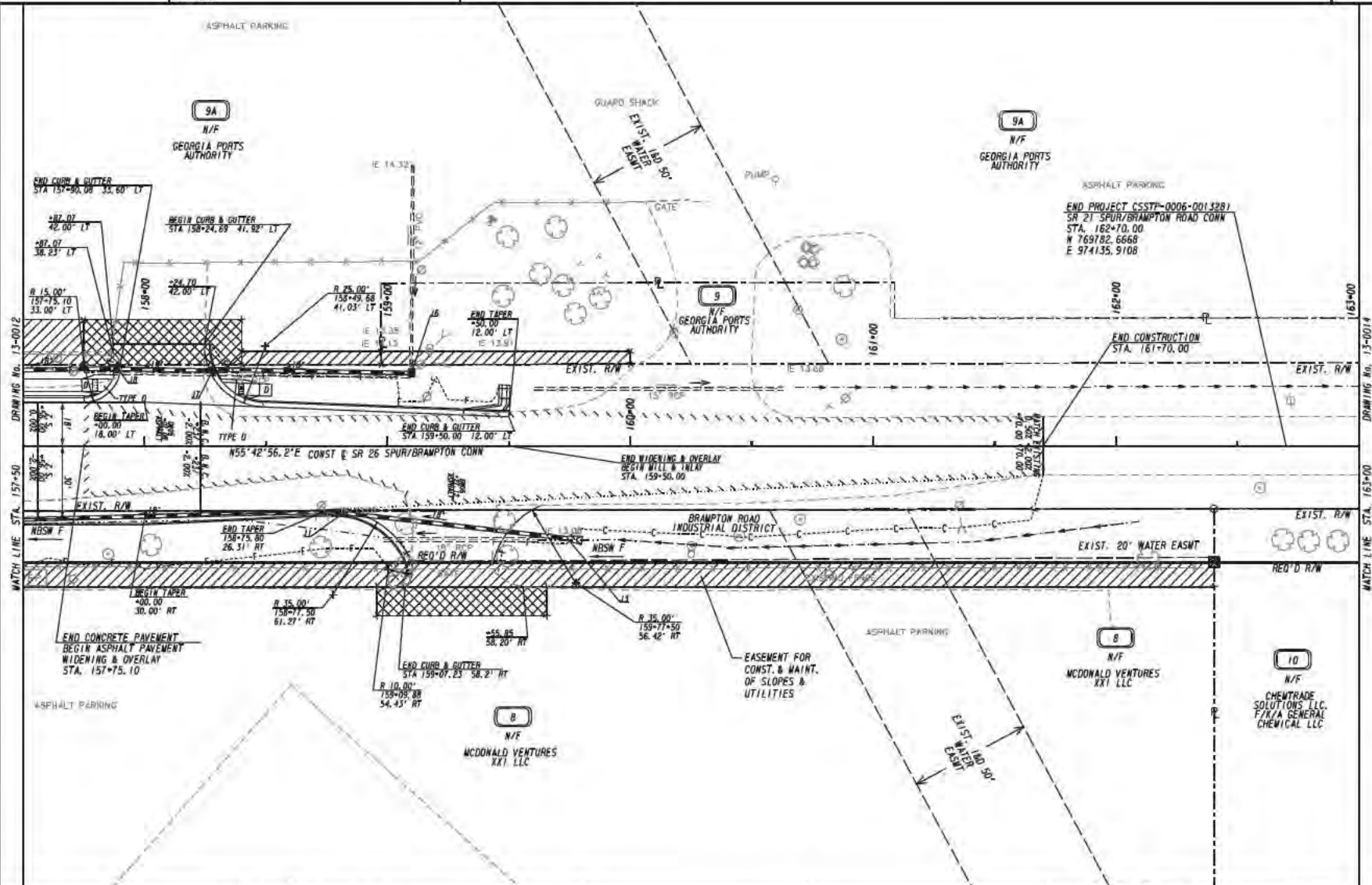


REVISION DATES

NO.	DATE	DESCRIPTION

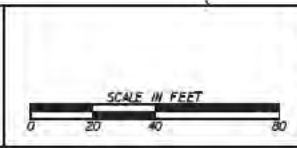
CONSTRUCTION PLAN
BRAMPTON ROAD CONNECTOR

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-0012
CORRECTED:	DATE:	
VERIFIED:	DATE:	



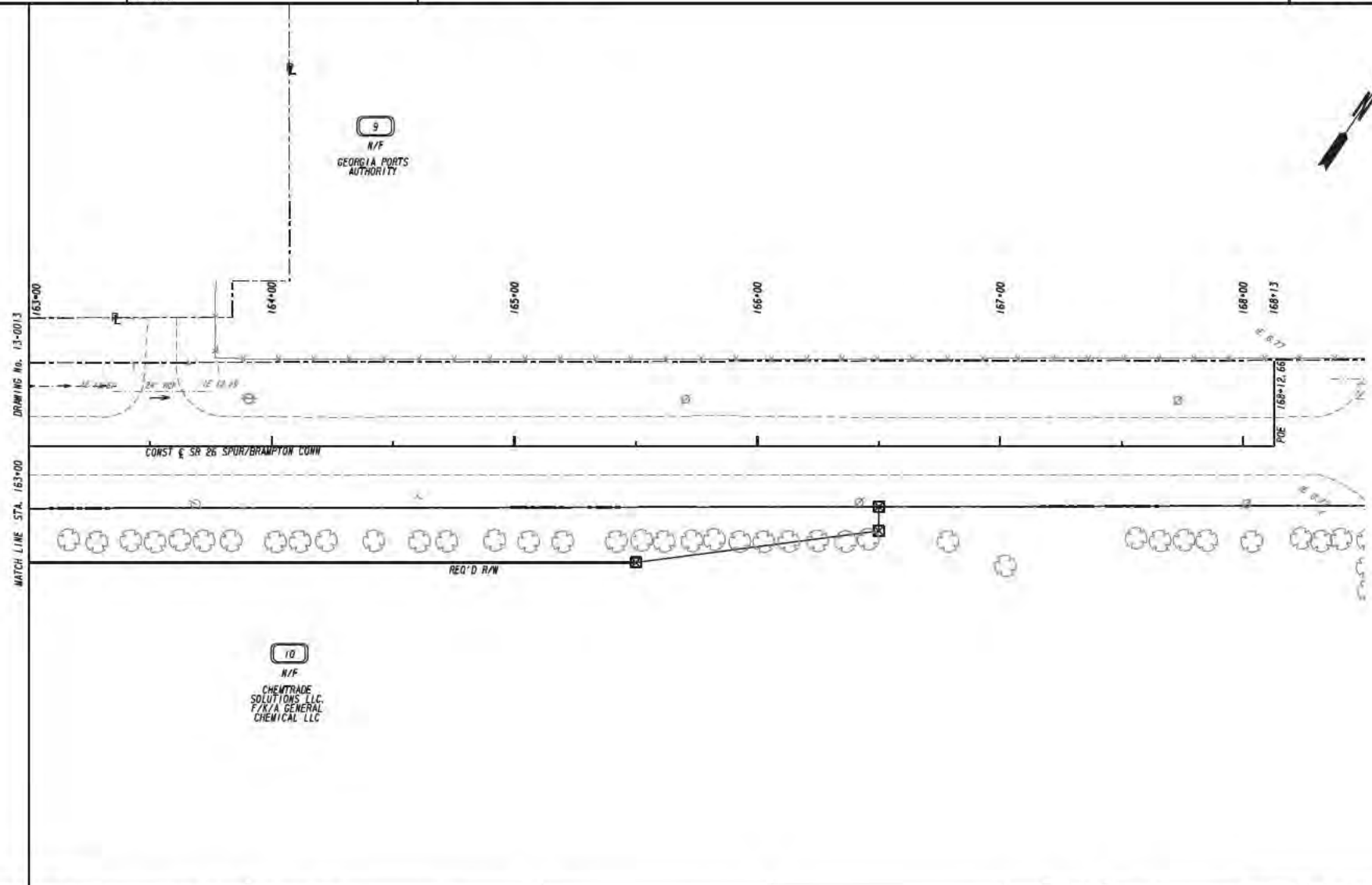
PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

---E--- BEGIN LIMIT OF ACCESS.....BLA
 ---E--- END LIMIT OF ACCESS.....ELA
 ---C--- LIMIT OF ACCESS
 ---F--- REQ'D R/W & LIMIT OF ACCESS
 ---H--- ORANGE BARRIER FENCE
 ---S--- ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



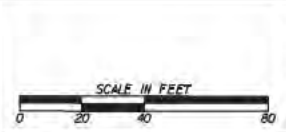
REVISION DATES	

CONSTRUCTION PLAN BRAMPTON ROAD CONNECTOR		
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BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



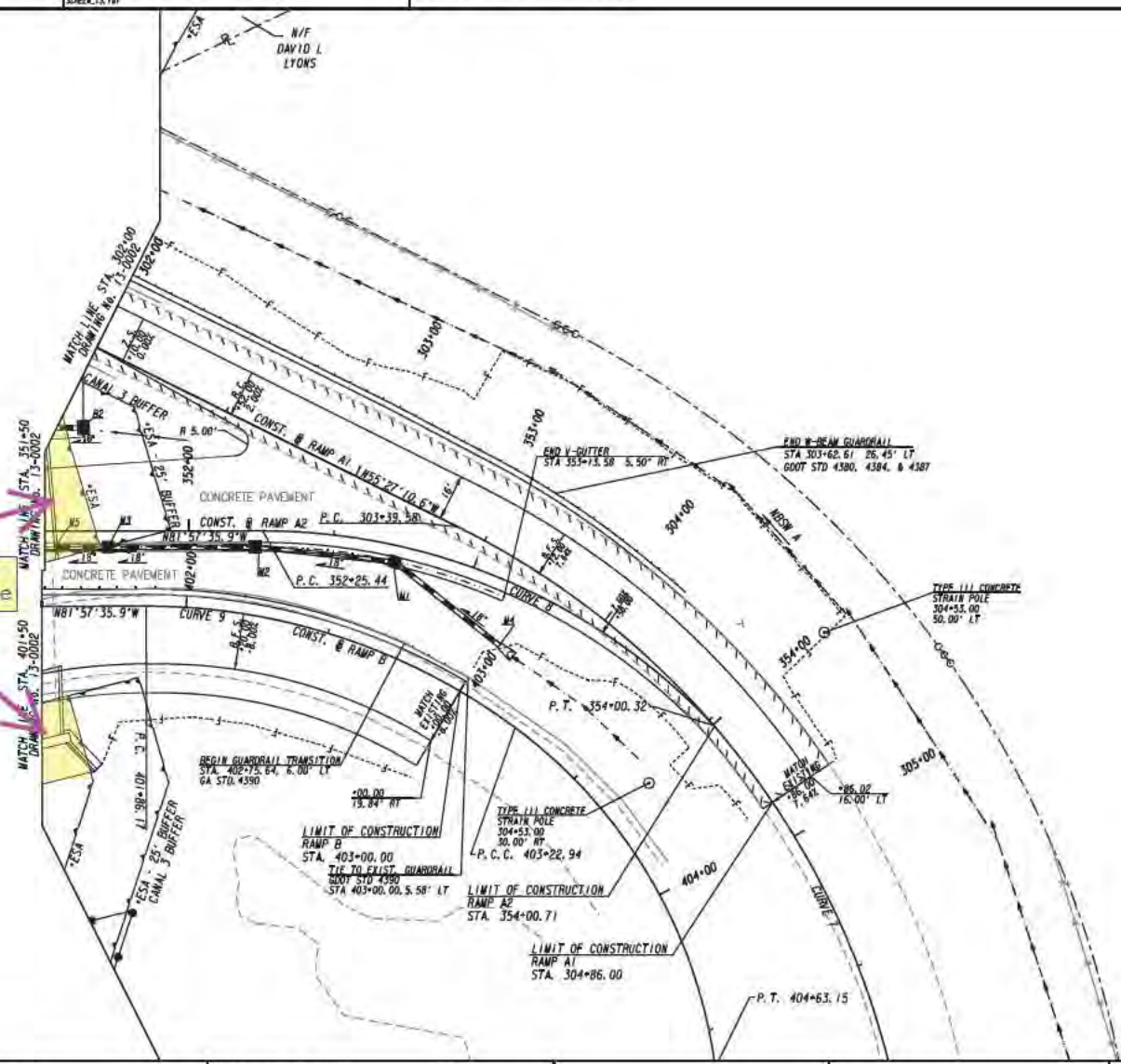
PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	

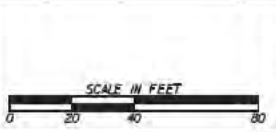
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BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



Total CL 3 Permanent Fill Impact 0.16 acre

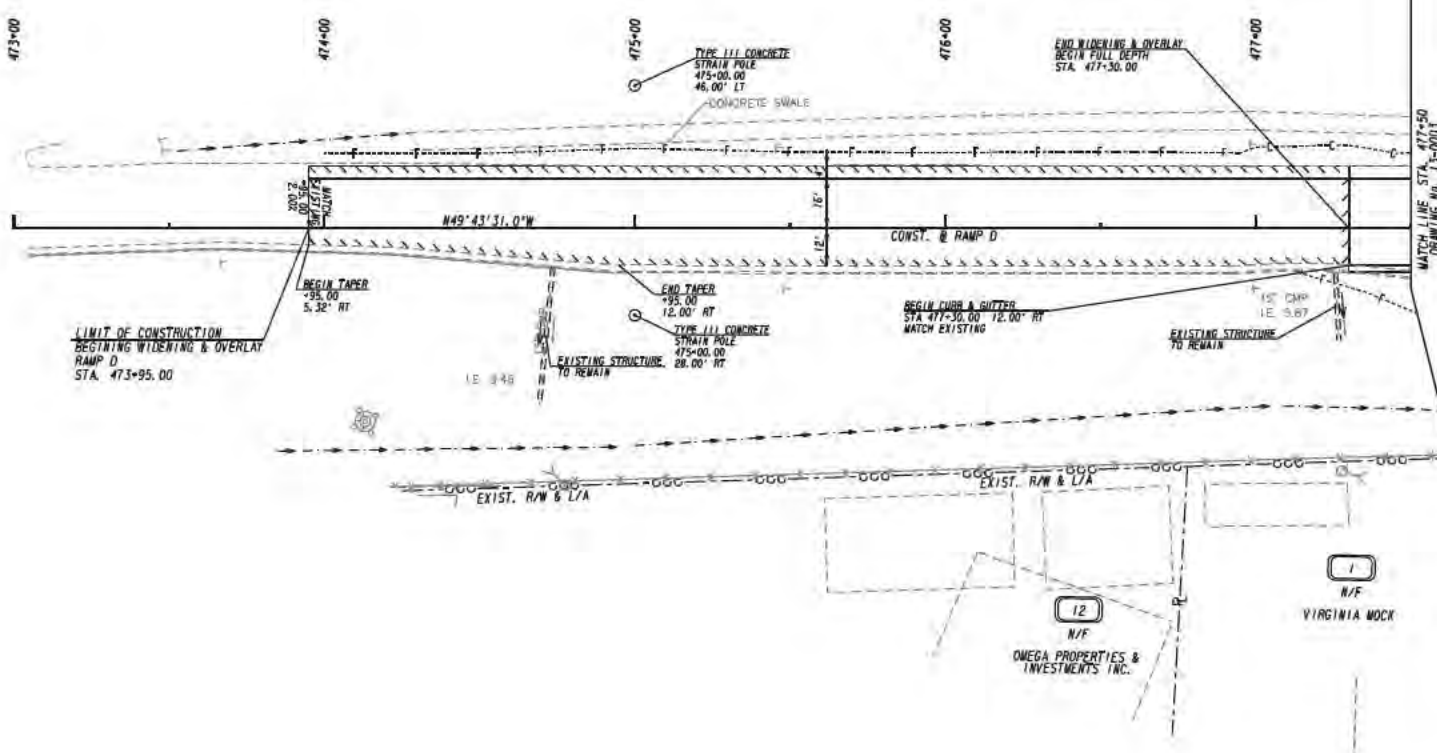
PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

---E--- BEGIN LIMIT OF ACCESS.....BLA
 ---F--- END LIMIT OF ACCESS.....ELA
 ---C--- LIMIT OF ACCESS
 ---X--- REQ'D R/W & LIMIT OF ACCESS
 ---H--- ORANGE BARRIER FENCE
 ---S--- ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	

CONSTRUCTION PLAN BRAMPTON ROAD CONNECTOR		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-0015
CORRECTED:	DATE:	
VERIFIED:	DATE:	



PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



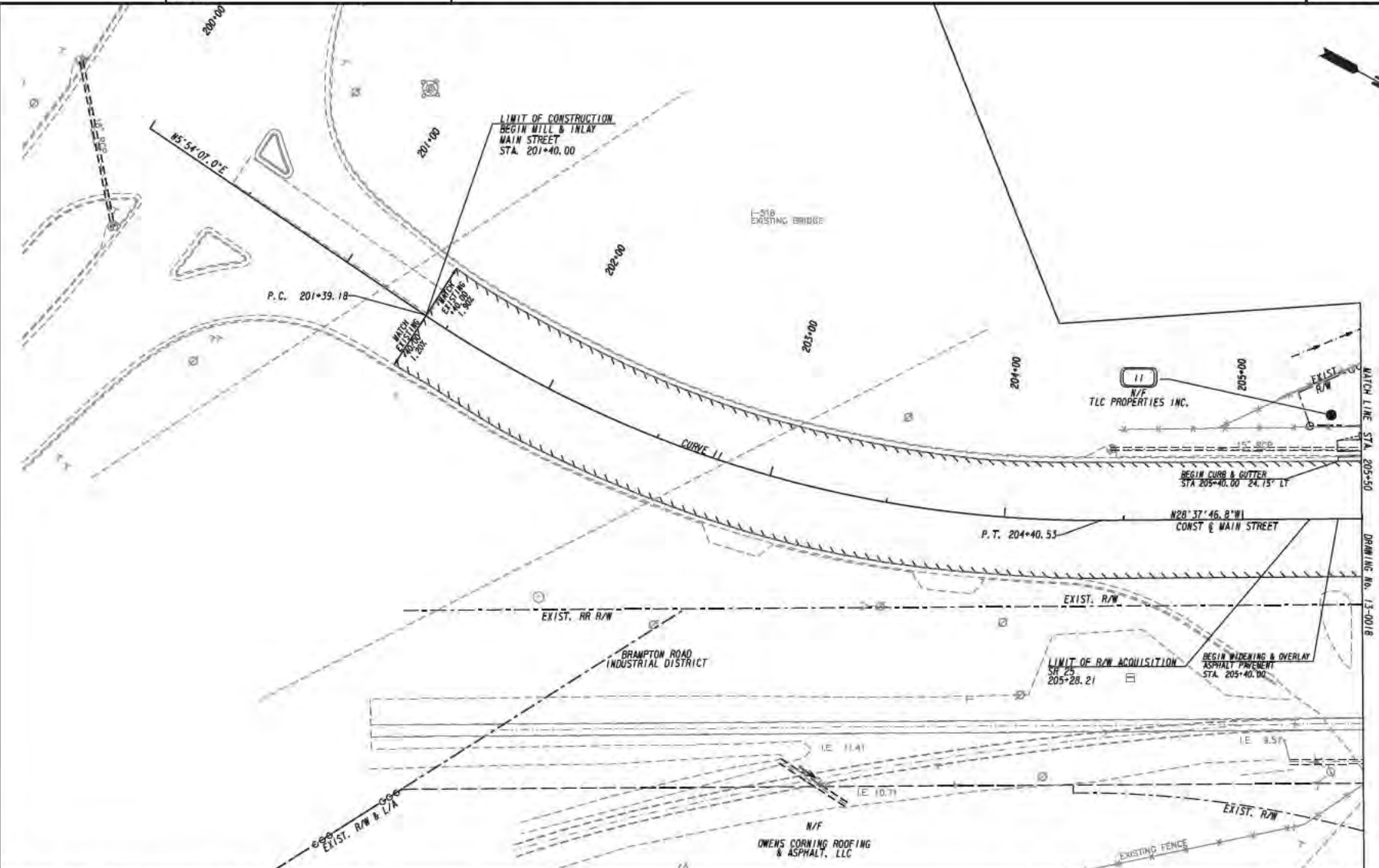
BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)









REVISION DATES	

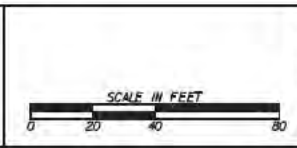
CONSTRUCTION PLAN
 BRAMPTON ROAD CONNECTOR

CHECKED	DATE	DRAWING No.
		13-0016



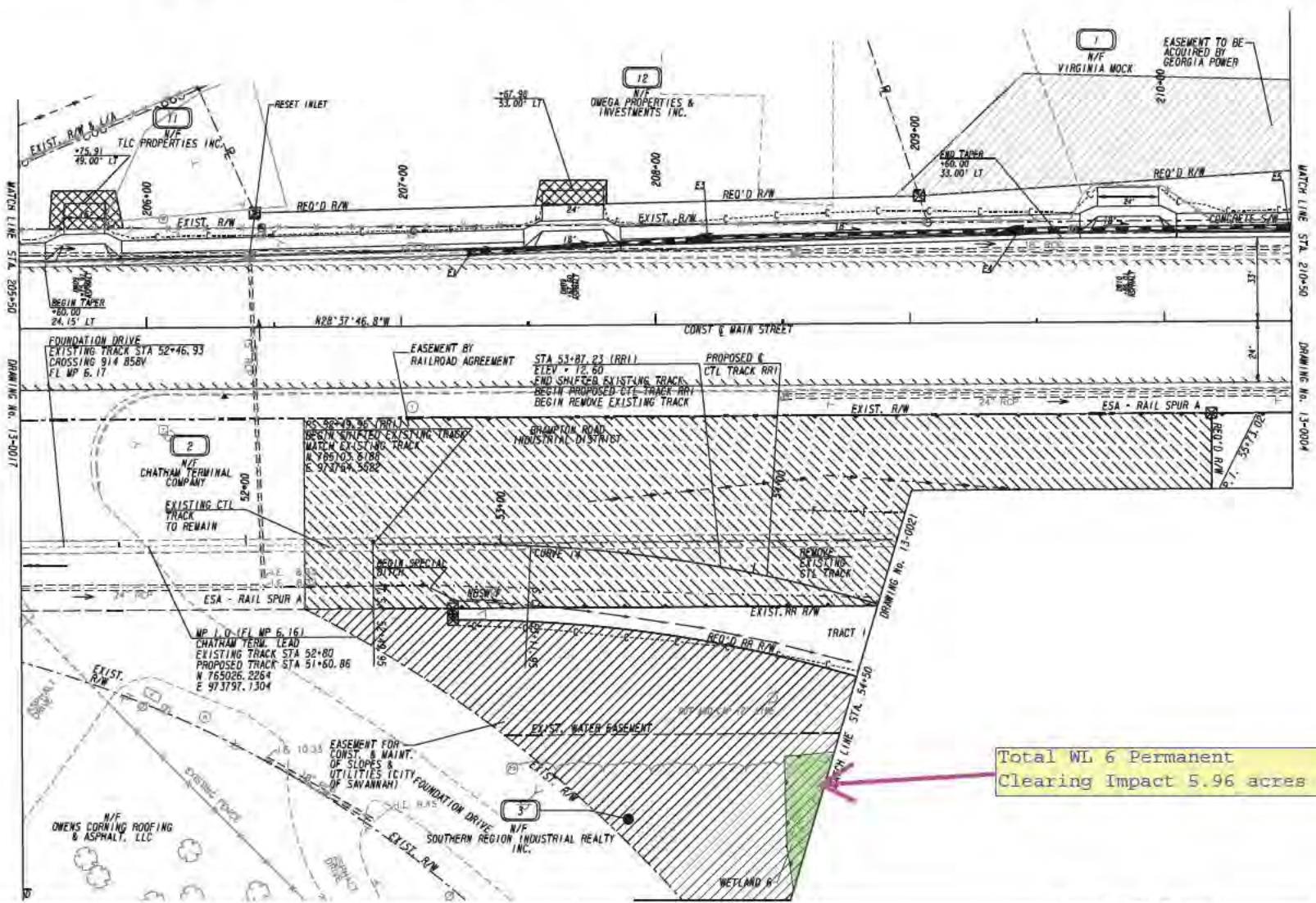
PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

 BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	

CONSTRUCTION PLAN BRAMPTON ROAD CONNECTOR		
CHECKED:	DATE:	DRAWING No. 13-0017
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



Total WL 6 Permanent Clearing Impact 5.96 acres

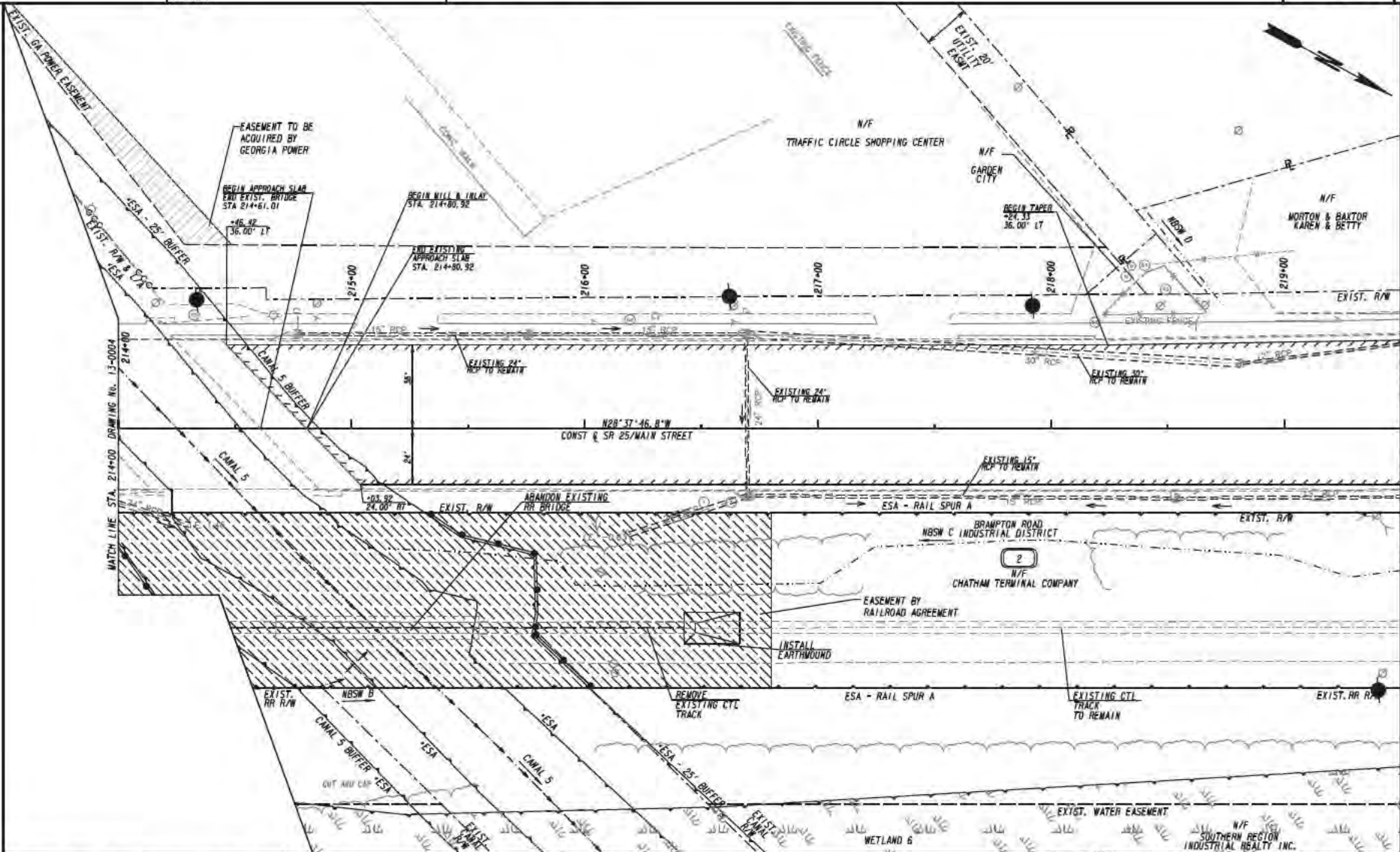
PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	---
EASEMENT FOR CONSTR OF SLOPES	---
EASEMENT FOR CONSTR OF DRIVES	---

BEGIN LIMIT OF ACCESS.....	BLA
END LIMIT OF ACCESS.....	ELA
LIMIT OF ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---
ORANGE BARRIER FENCE	---
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	---



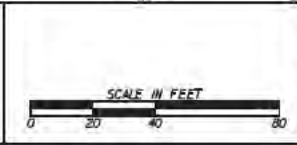
REVISION DATES	

CONSTRUCTION PLAN		
BRAMPTON ROAD CONNECTOR		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-0018
CORRECTED:	DATE:	
VERIFIED:	DATE:	



PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

---•--- BEGIN LIMIT OF ACCESS.....BLA
 ---•--- END LIMIT OF ACCESS.....ELA
 ---•--- LIMIT OF ACCESS
 ---•--- REQ'D R/W & LIMIT OF ACCESS
 ---•--- ORANGE BARRIER FENCE
 ---•--- ESA - ENV. SENSITIVE AREA
 (SEE ERIE TABLE)

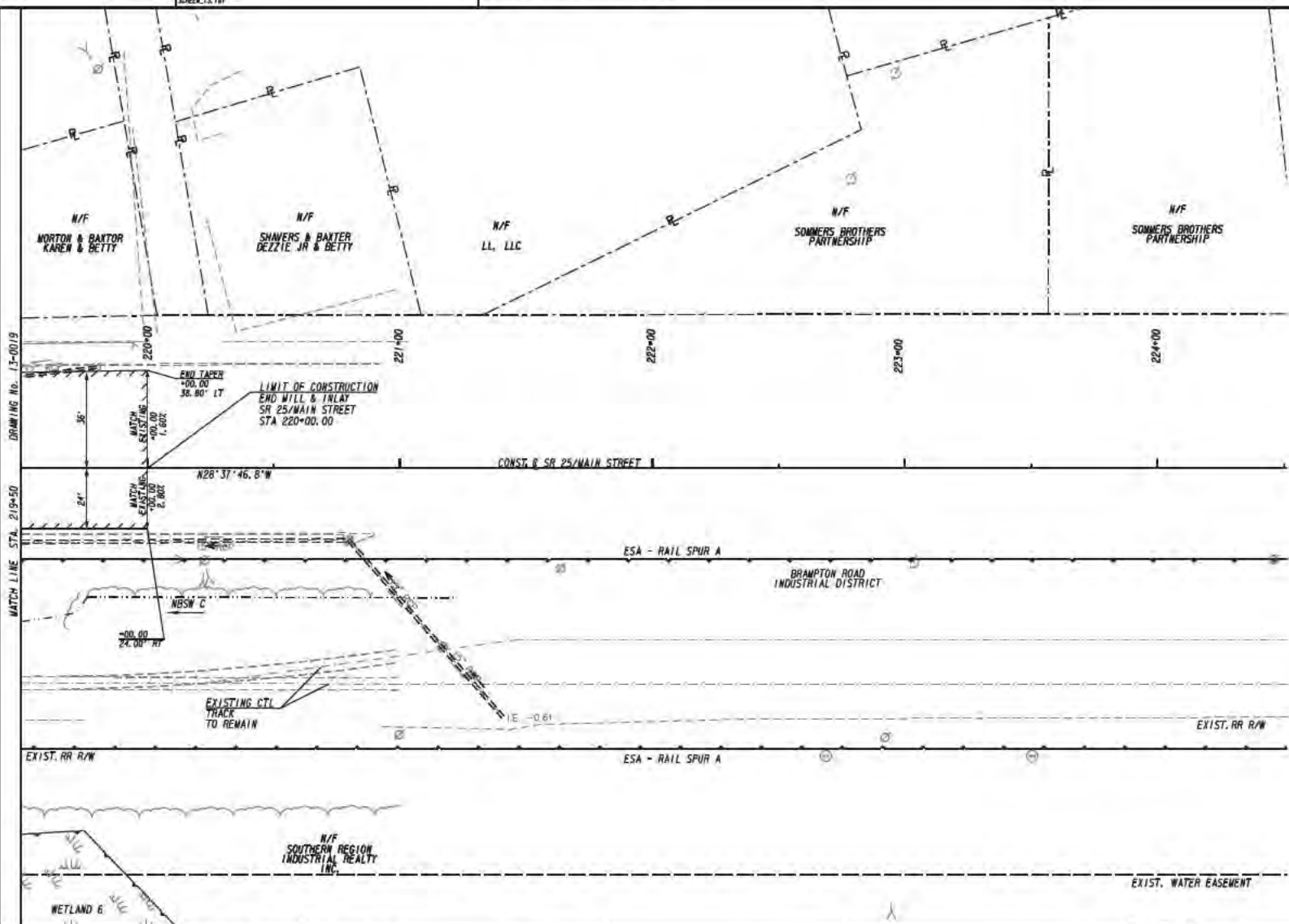


REVISION DATES	

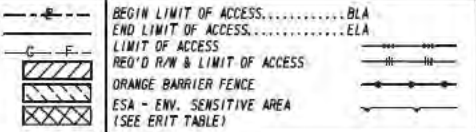
CONSTRUCTION PLAN
BRAMPTON ROAD CONNECTOR

CHECKED:	DATE:	DRAWING No. 13-0019
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

DRAWING No. 13-0020
MATCH LINE STA. 219+50



PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



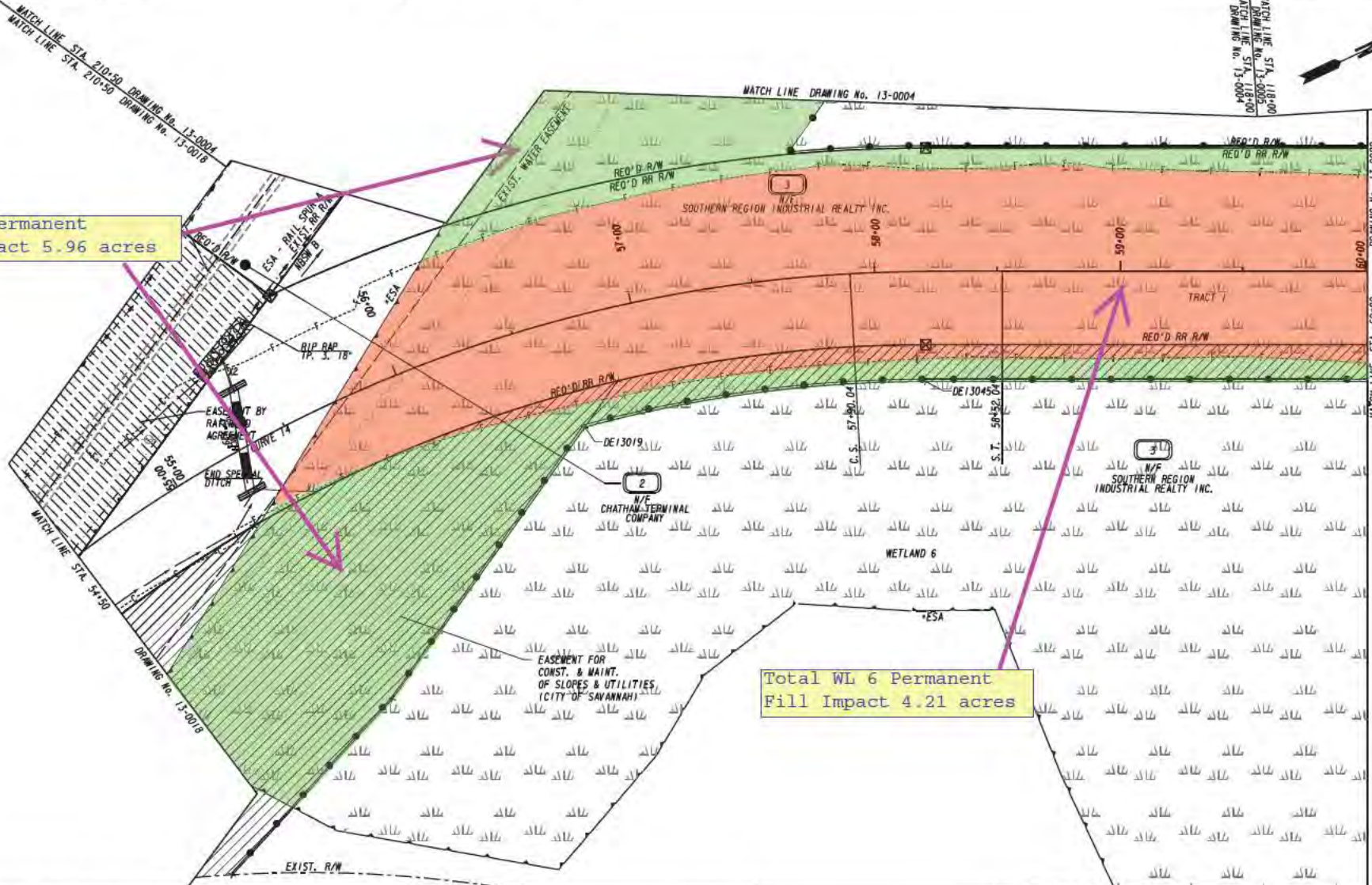
REVISION DATES	

CONSTRUCTION PLAN BRAMPTON ROAD CONNECTOR		
CHECKED:	DATE:	DRAWING No. 13-0020
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



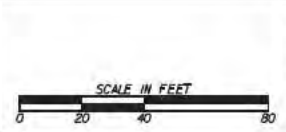
Total WL 6 Permanent Clearing Impact 5.96 acres

Total WL 6 Permanent Fill Impact 4.21 acres



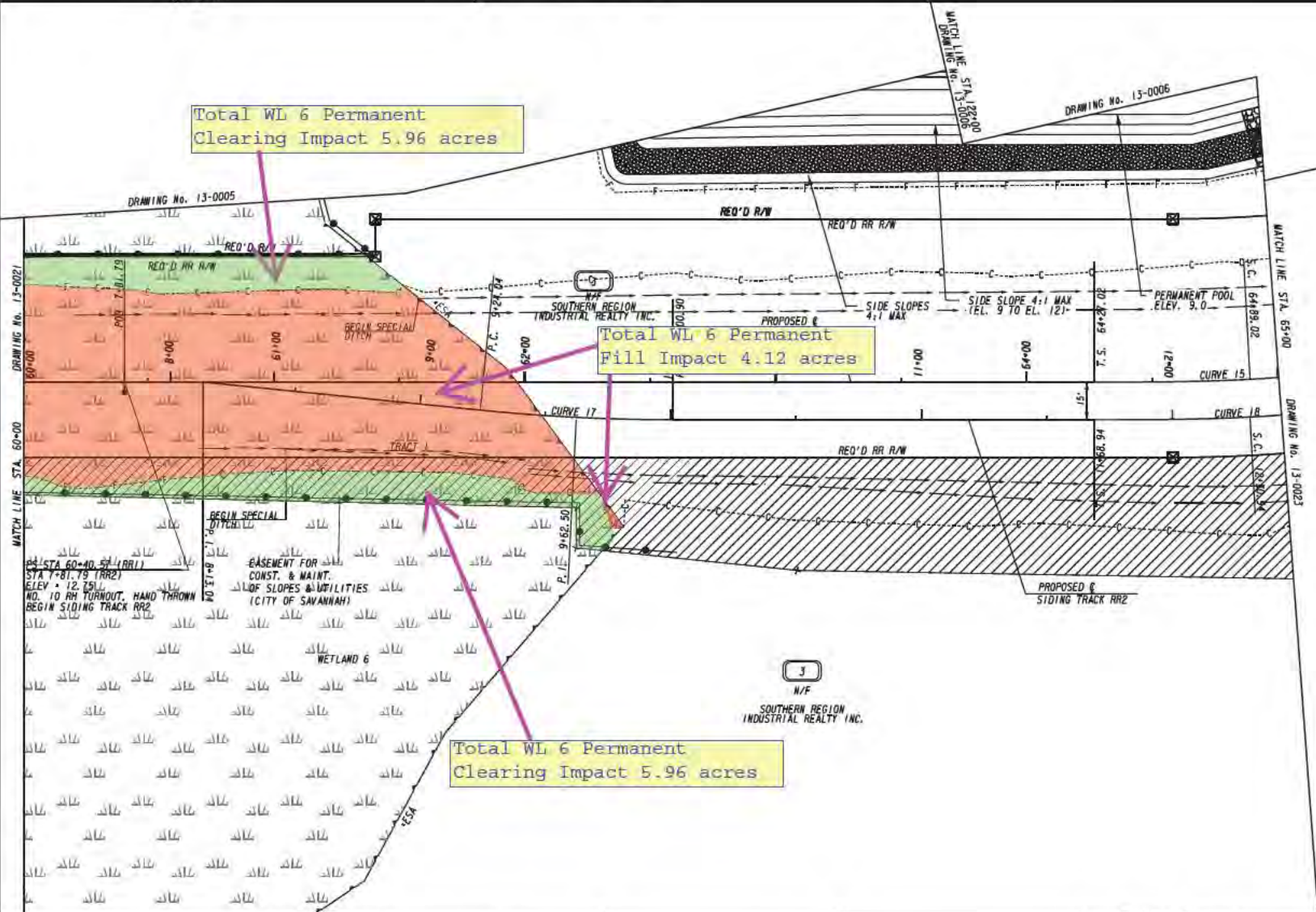
PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

---●--- BEGIN LIMIT OF ACCESS.....BLA
 ---●--- END LIMIT OF ACCESS.....ELA
 ---●--- LIMIT OF ACCESS
 ---●--- RED'D R/W & LIMIT OF ACCESS
 ---●--- ORANGE BARRIER FENCE
 ---●--- ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



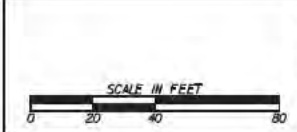
REVISION DATES	

CONSTRUCTION PLAN		
BRAMPTON ROAD CONNECTOR		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-0021
CORRECTED:	DATE:	
VERIFIED:	DATE:	



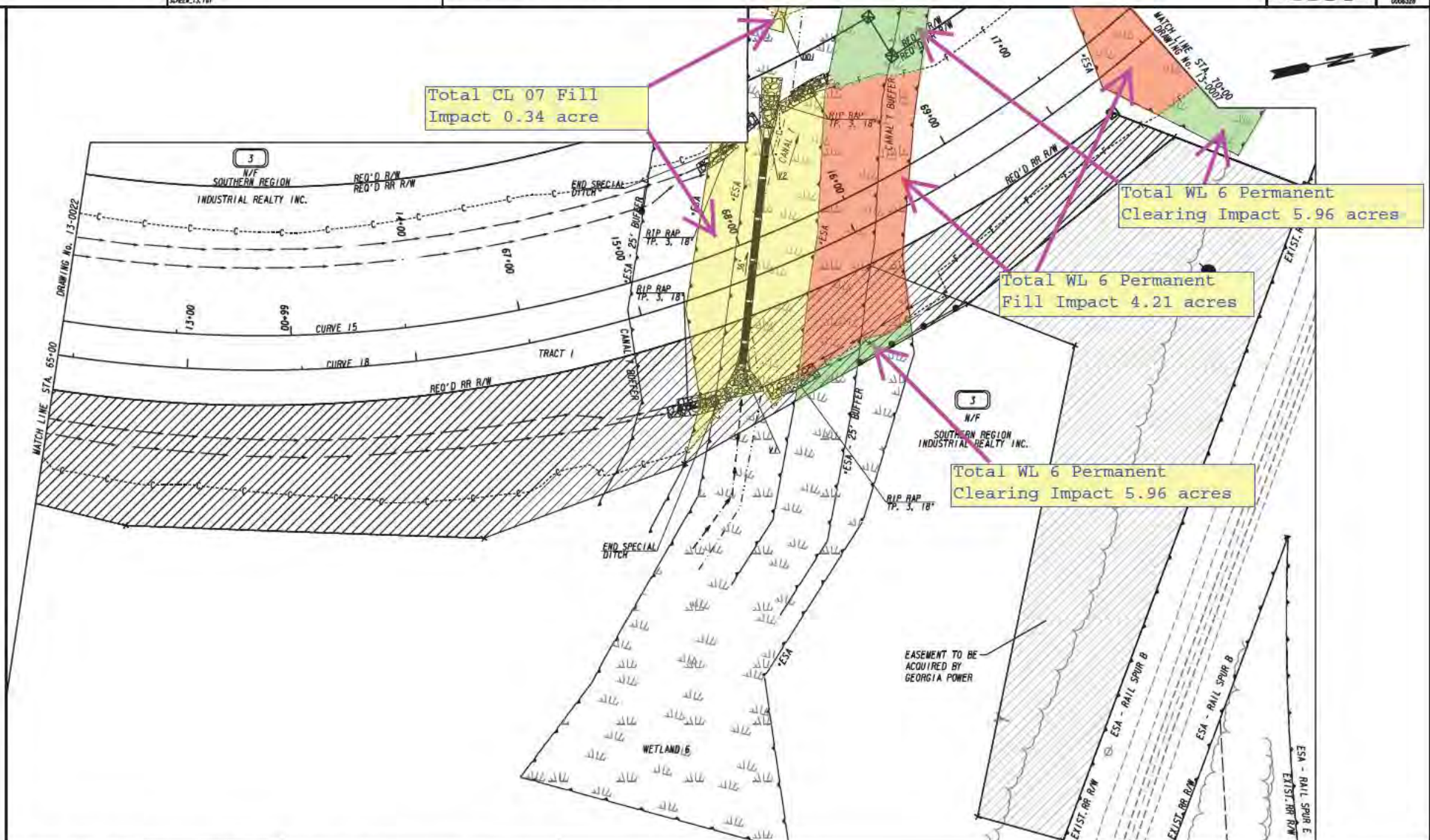
PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

--- B --- BEGIN LIMIT OF ACCESS.....BLA
 --- E --- END LIMIT OF ACCESS.....ELA
 --- C --- F --- LIMIT OF ACCESS
 --- H --- H --- REQ'D R/W & LIMIT OF ACCESS
 --- X --- F --- ORANGE BARRIER FENCE
 --- X --- X --- ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	

CONSTRUCTION PLAN			BRAMPTON ROAD CONNECTOR		
CHECKED:	DATE:	DRAWING No.	CHECKED:	DATE:	13-0022
BACKCHECKED:	DATE:		BACKCHECKED:	DATE:	
CORRECTED:	DATE:		CORRECTED:	DATE:	
VERIFIED:	DATE:		VERIFIED:	DATE:	



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

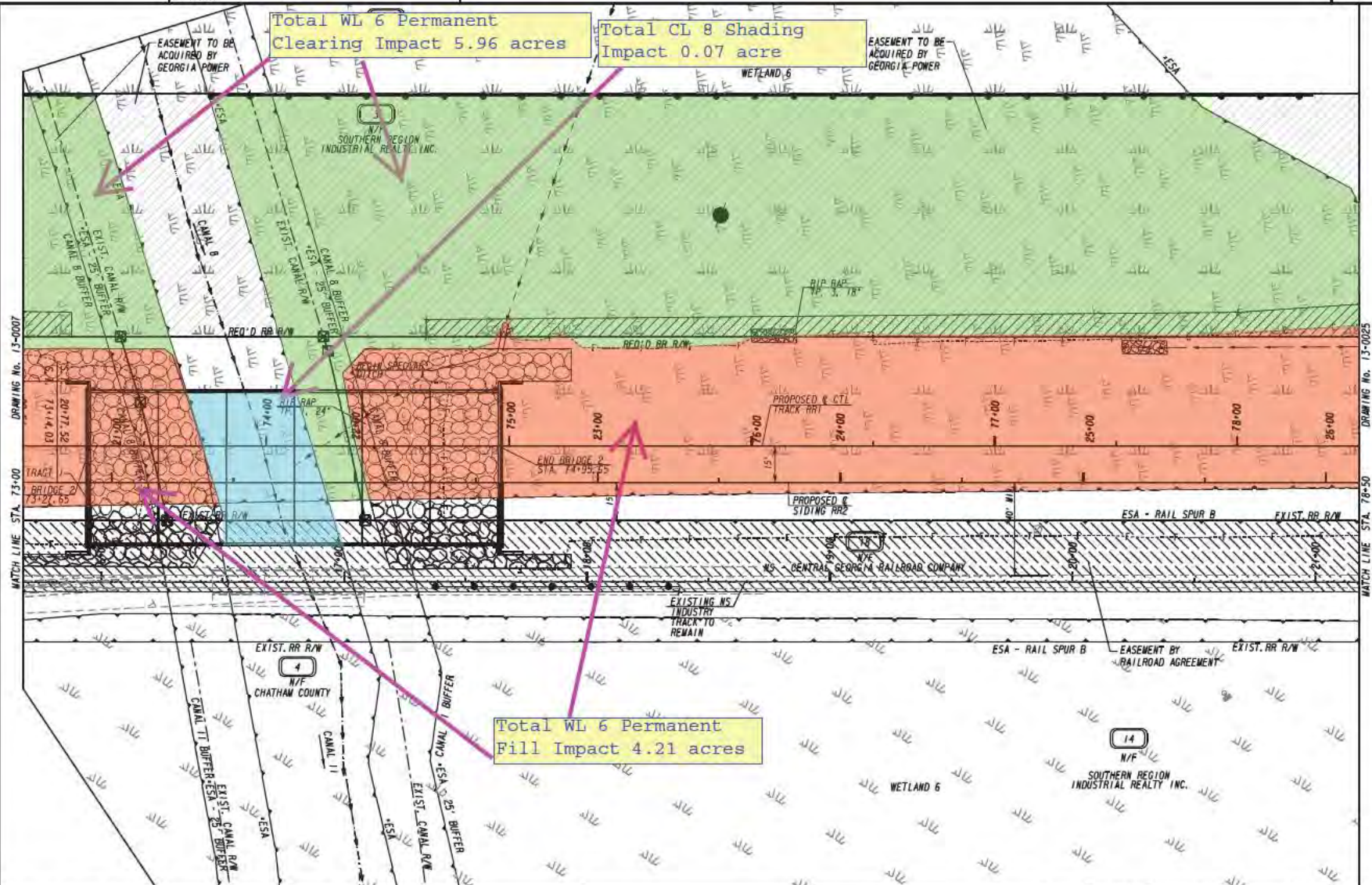
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	END LIMIT OF ACCESS.....ELA	
	LIMIT OF ACCESS	
	REQ'D R/W & LIMIT OF ACCESS	
	ORANGE BARRIER FENCE	
	ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	

SCALE IN FEET

REVISION DATES	

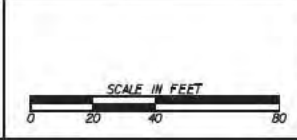
CONSTRUCTION PLAN
BRAMPTON ROAD CONNECTOR

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-0023
CORRECTED:	DATE:	
VERIFIED:	DATE:	



PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

--- B --- BEGIN LIMIT OF ACCESS.....BLA
 --- E --- END LIMIT OF ACCESS.....ELA
 --- L --- LIMIT OF ACCESS
 --- R --- REQ'D R/W & LIMIT OF ACCESS
 --- O --- ORANGE BARRIER FENCE
 --- S --- ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



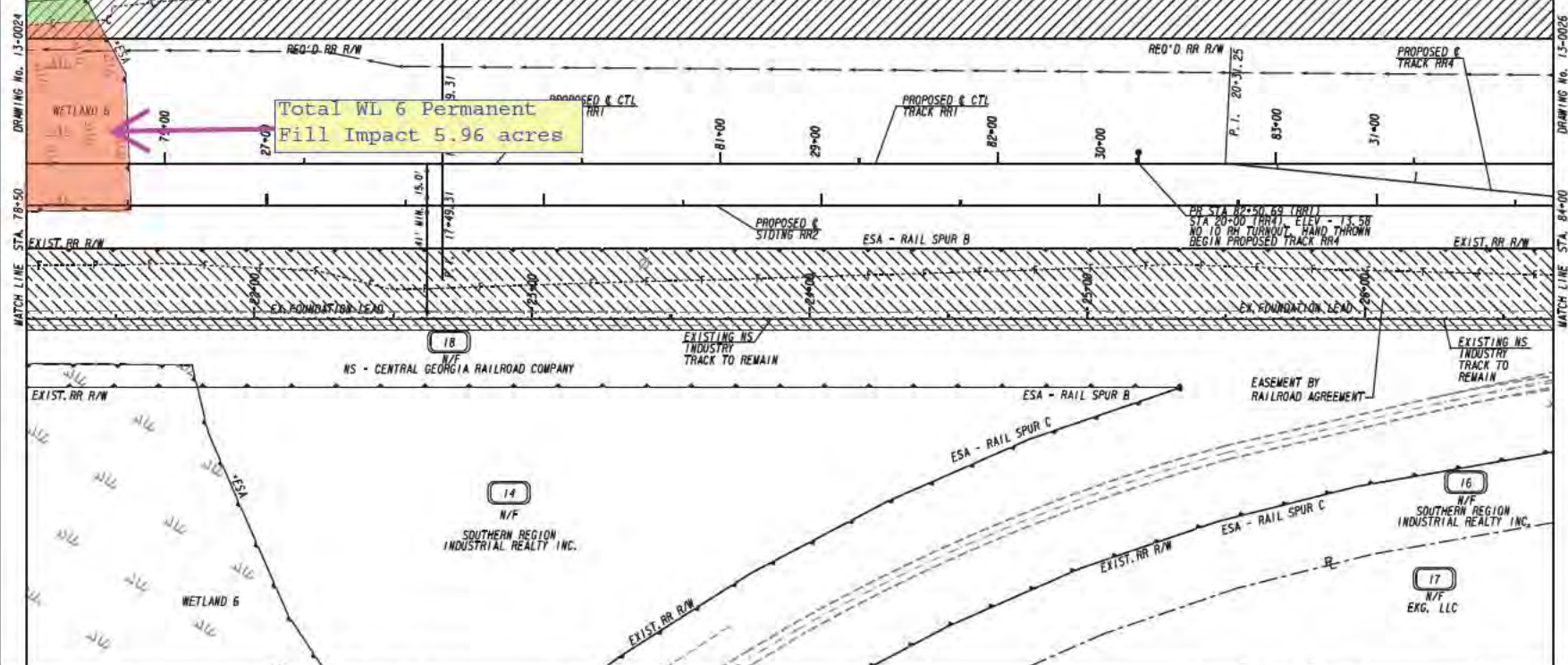
REVISION DATES	

CONSTRUCTION PLAN BRAMPTON ROAD CONNECTOR			
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BACKCHECKED:	DATE:		
CORRECTED:	DATE:		
VERIFIED:	DATE:		

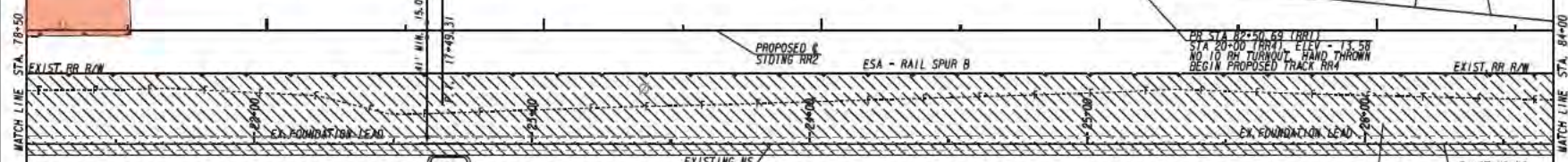
Total WL 6 Permanent Clearing Impact 5.96 acres

5
N/F
SOUTHERN REGION INDUSTRIAL REALTY INC.

EASEMENT TO BE ACQUIRED BY GEORGIA POWER

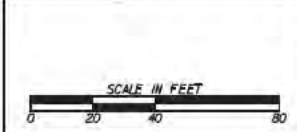


Total WL 6 Permanent Fill Impact 5.96 acres



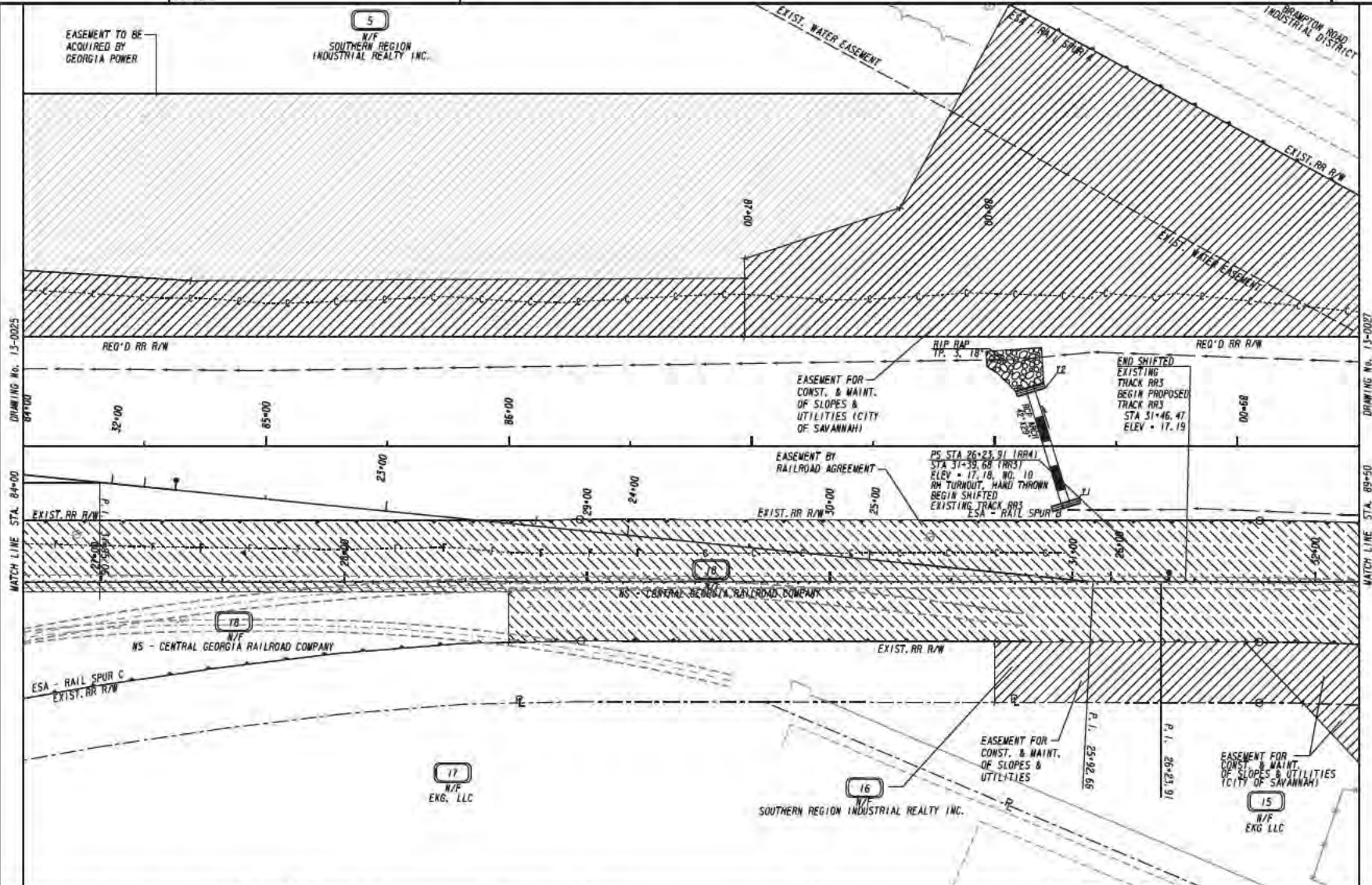
PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

---●--- BEGIN LIMIT OF ACCESS.....BLA
---●--- END LIMIT OF ACCESS.....ELA
---●--- LIMIT OF ACCESS
---●--- REQ'D R/W & LIMIT OF ACCESS
---●--- ORANGE BARRIER FENCE
---●--- ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)



REVISION DATES	

CONSTRUCTION PLAN BRAMPTON ROAD CONNECTOR		
CHECKED:	DATE:	DRAWING No. 13-0025
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

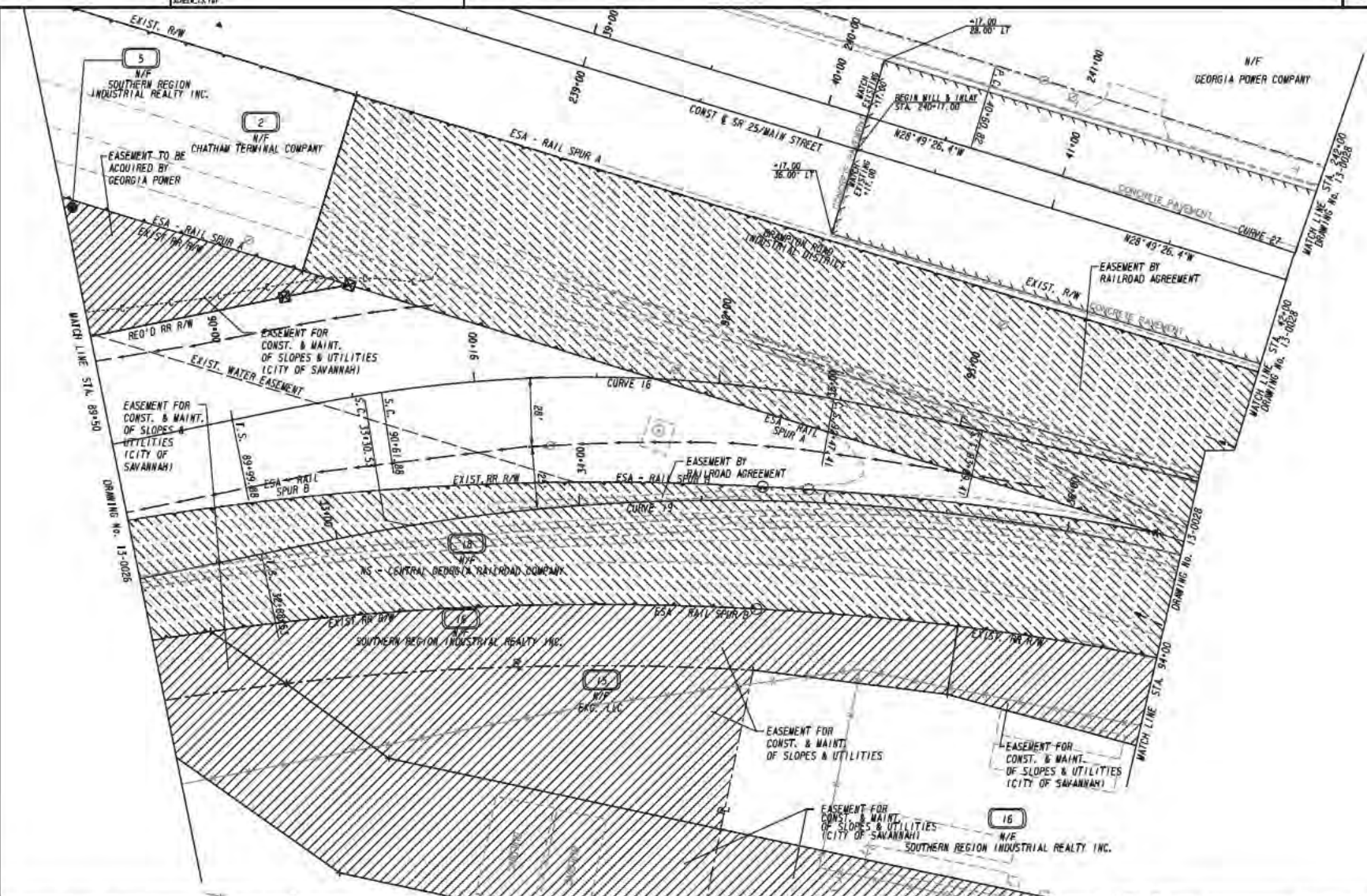
--- -- -- -- -- BEGIN LIMIT OF ACCESS.....BLA
--- -- -- -- -- END LIMIT OF ACCESS.....ELA
--- -- -- -- -- LIMIT OF ACCESS
--- -- -- -- -- REQ'D R/W & LIMIT OF ACCESS
--- -- -- -- -- ORANGE BARRIER FENCE
--- -- -- -- -- ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)



REVISION DATES	

CONSTRUCTION PLAN
BRAMPTON ROAD CONNECTOR

CHECKED:	DATE:	DRAWING No.
DESIGNED:	DATE:	13-0026
CORRECTED:	DATE:	
VERIFIED:	DATE:	



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

moffatt & nichol

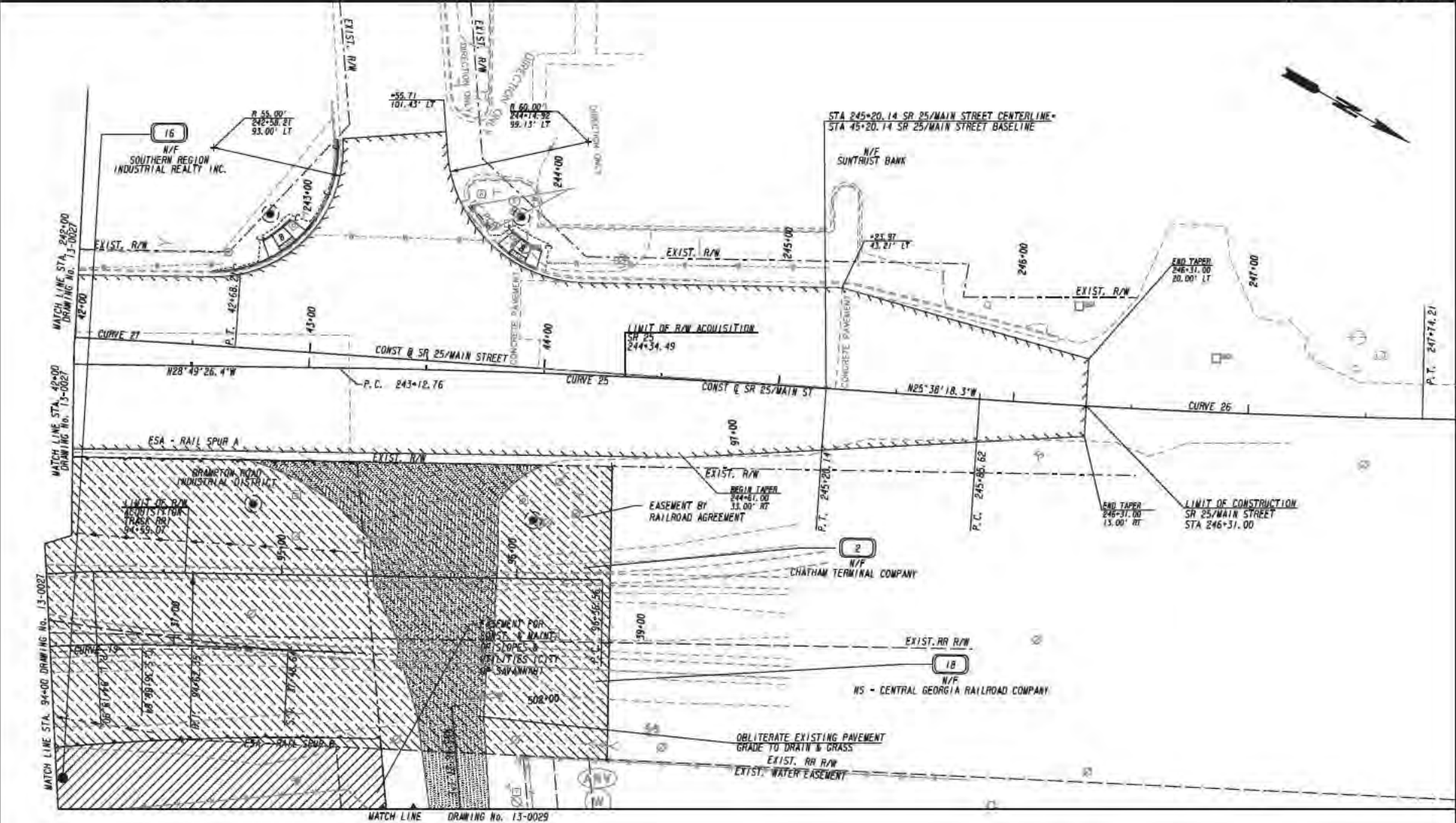


REVISION DATES

NO.	DATE	DESCRIPTION

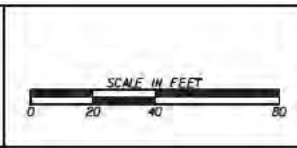
CONSTRUCTION PLAN
BRAMPTON ROAD CONNECTOR

DESIGNED	DATE	DRAWING No.
CHECKED	DATE	13-0027
CORRECTED	DATE	
VERIFIED	DATE	



PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

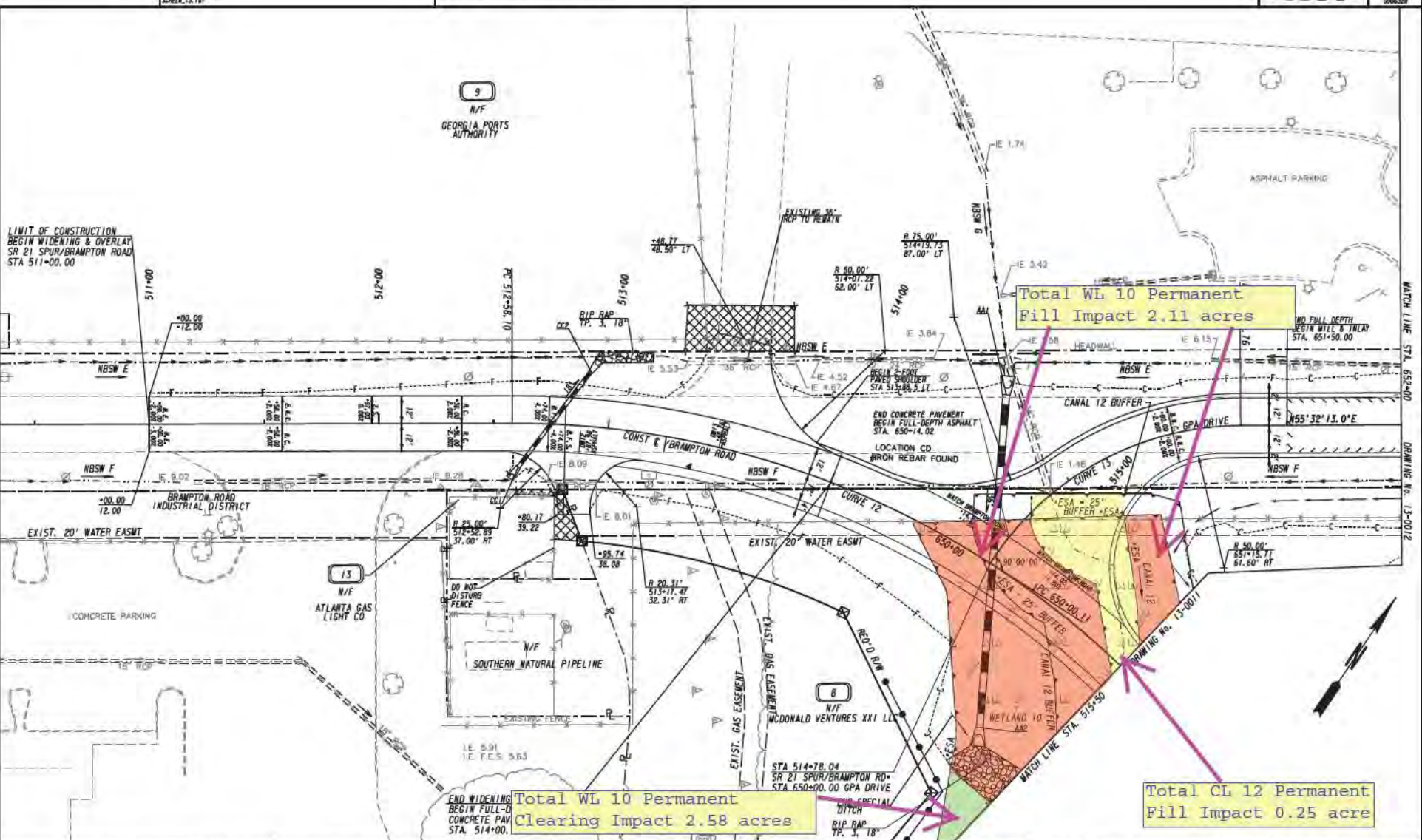
BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 DRAINAGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	

CONSTRUCTION PLAN
 BRAMPTON ROAD CONNECTOR

DESIGNED:	DATE:	DRAWING No.
CHECKED:	DATE:	13-0028
CORRECTED:	DATE:	
VERIFIED:	DATE:	



PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 N/F
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

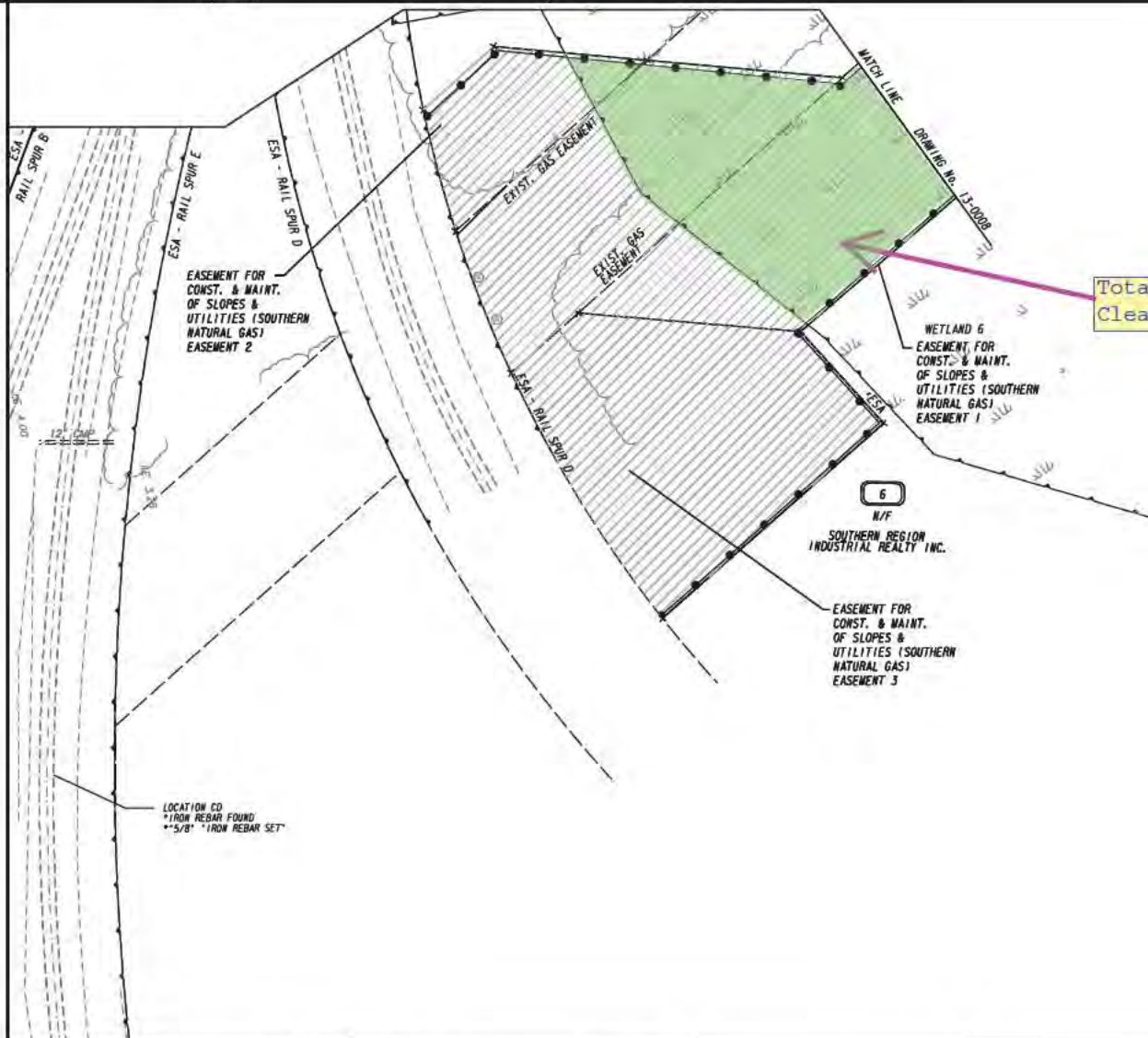
moffatt & nichol



REVISION DATES	

CONSTRUCTION PLAN
BRAMPTON ROAD CONNECTOR

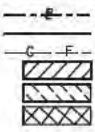
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-0030
CORRECTED:	DATE:	
VERIFIED:	DATE:	



Total WL 6 Permanent
Clearing Impact 5.96 acres



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

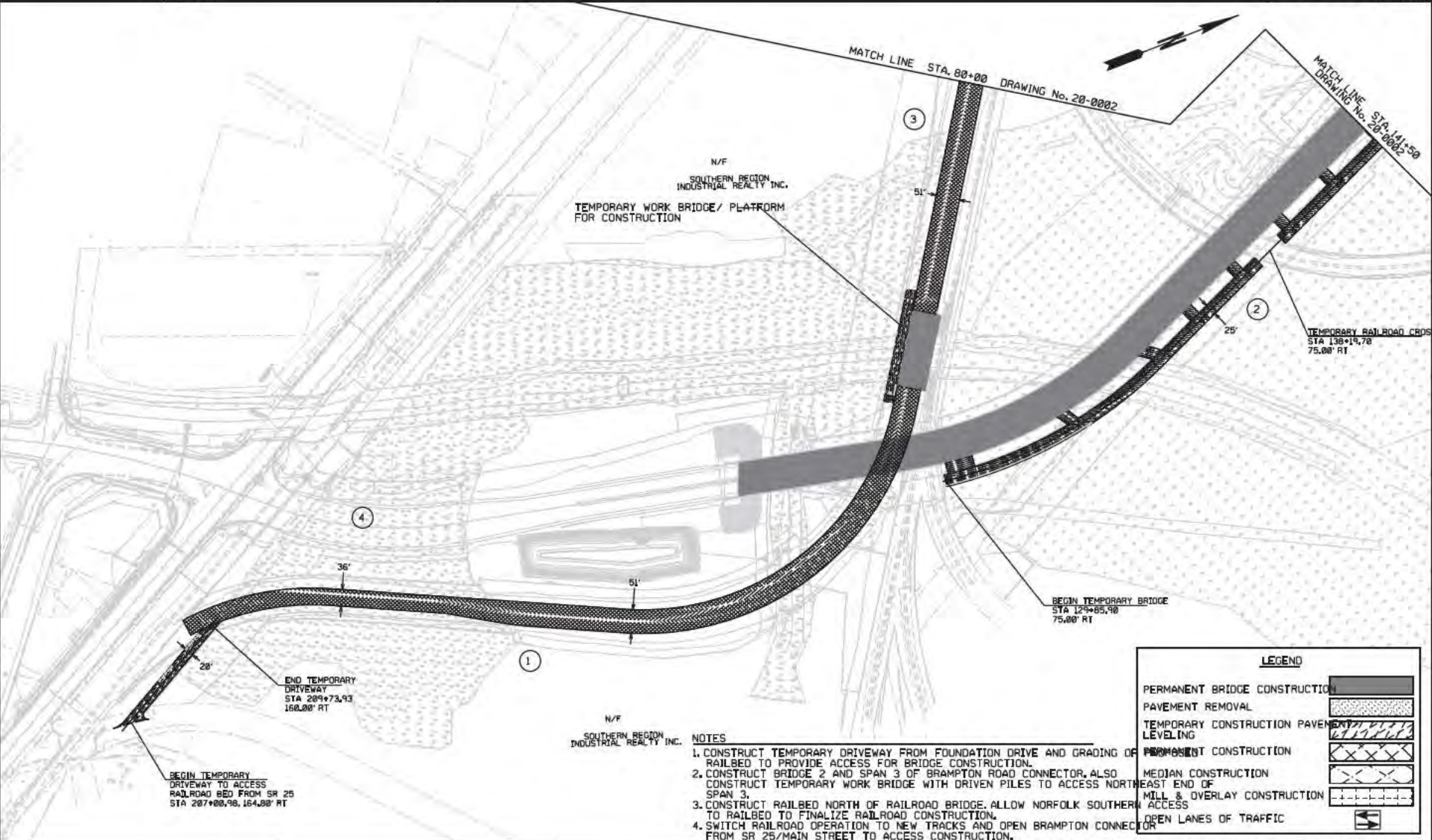


REVISION DATES	

CONSTRUCTION PLAN
BRAMPTON ROAD CONNECTOR

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-0031
CORRECTED:	DATE:	
VERIFIED:	DATE:	

**20 and 21 Series Plansheets
(Staging and Temporary Impacts)**



N/F
SOUTHERN REGION
INDUSTRIAL REALTY INC.
TEMPORARY WORK BRIDGE / PLATFORM
FOR CONSTRUCTION

TEMPORARY RAILROAD CROSS
STA 138+14.70
75.00' RT

BEGIN TEMPORARY BRIDGE
STA 129+85.98
75.00' RT

END TEMPORARY
DRIVEWAY
STA 209+73.93
160.00' RT

BEGIN TEMPORARY
DRIVEWAY TO ACCESS
RAILROAD BED FROM SR 25
STA 207+00.98, 164.80' RT

N/F
SOUTHERN REGION
INDUSTRIAL REALTY INC.

- NOTES**
1. CONSTRUCT TEMPORARY DRIVEWAY FROM FOUNDATION DRIVE AND GRADING OF RAILBED TO PROVIDE ACCESS FOR BRIDGE CONSTRUCTION.
 2. CONSTRUCT BRIDGE 2 AND SPAN 3 OF BRAMPTON ROAD CONNECTOR, ALSO CONSTRUCT TEMPORARY WORK BRIDGE WITH DRIVEN PILES TO ACCESS NORTH SPAN 3.
 3. CONSTRUCT RAILBED NORTH OF RAILROAD BRIDGE. ALLOW NORFOLK SOUTHERN TO RAILBED TO FINALIZE RAILROAD CONSTRUCTION.
 4. SWITCH RAILROAD OPERATION TO NEW TRACKS AND OPEN BRAMPTON CONNECTOR FROM SR 25/MAIN STREET TO ACCESS CONSTRUCTION.

LEGEND	
PERMANENT BRIDGE CONSTRUCTION	
PAVEMENT REMOVAL	
TEMPORARY CONSTRUCTION PAVEMENT	
LEVELING	
PROPOSED CONSTRUCTION	
MEDIAN CONSTRUCTION	
EAST END OF MILL & OVERLAY CONSTRUCTION	
ACCESS	
OPEN LANES OF TRAFFIC	



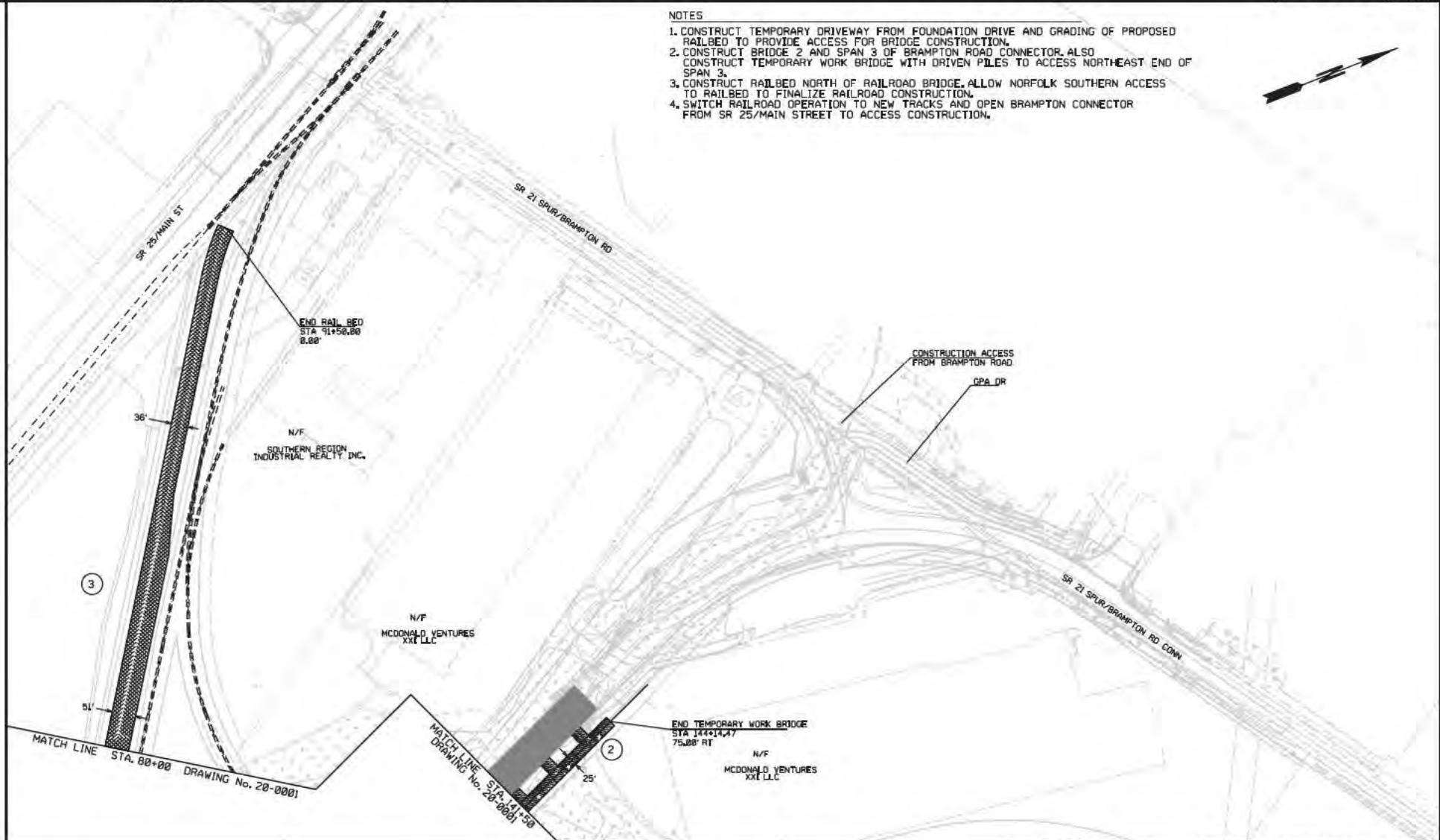
REVISION DATES	

CONSTRUCTION STAGING DETAIL
BRAMPTON ROAD CONNECTOR
TEMPORARY ACCESS ROADS

CHECKED	DATE	DRAWING No.
BACKCHECKED	DATE	20-0001
CORRECTED	DATE	
VERIFIED	DATE	

NOTES

1. CONSTRUCT TEMPORARY DRIVEWAY FROM FOUNDATION DRIVE AND GRADING OF PROPOSED RAILBED TO PROVIDE ACCESS FOR BRIDGE CONSTRUCTION.
2. CONSTRUCT BRIDGE 2 AND SPAN 3 OF BRAMPTON ROAD CONNECTOR. ALSO CONSTRUCT TEMPORARY WORK BRIDGE WITH DRIVEN PILES TO ACCESS NORTHEAST END OF SPAN 3.
3. CONSTRUCT RAILBED NORTH OF RAILROAD BRIDGE. ALLOW NORFOLK SOUTHERN ACCESS TO RAILBED TO FINALIZE RAILROAD CONSTRUCTION.
4. SWITCH RAILROAD OPERATION TO NEW TRACKS AND OPEN BRAMPTON CONNECTOR FROM SR 25/MAIN STREET TO ACCESS CONSTRUCTION.



REVISION DATES		DRAWING No.	

CONSTRUCTION STAGING DETAIL
BRAMPTON ROAD CONNECTOR
TEMPORARY ACCESS ROADS





CHECKED	DATE	DRAWING No.

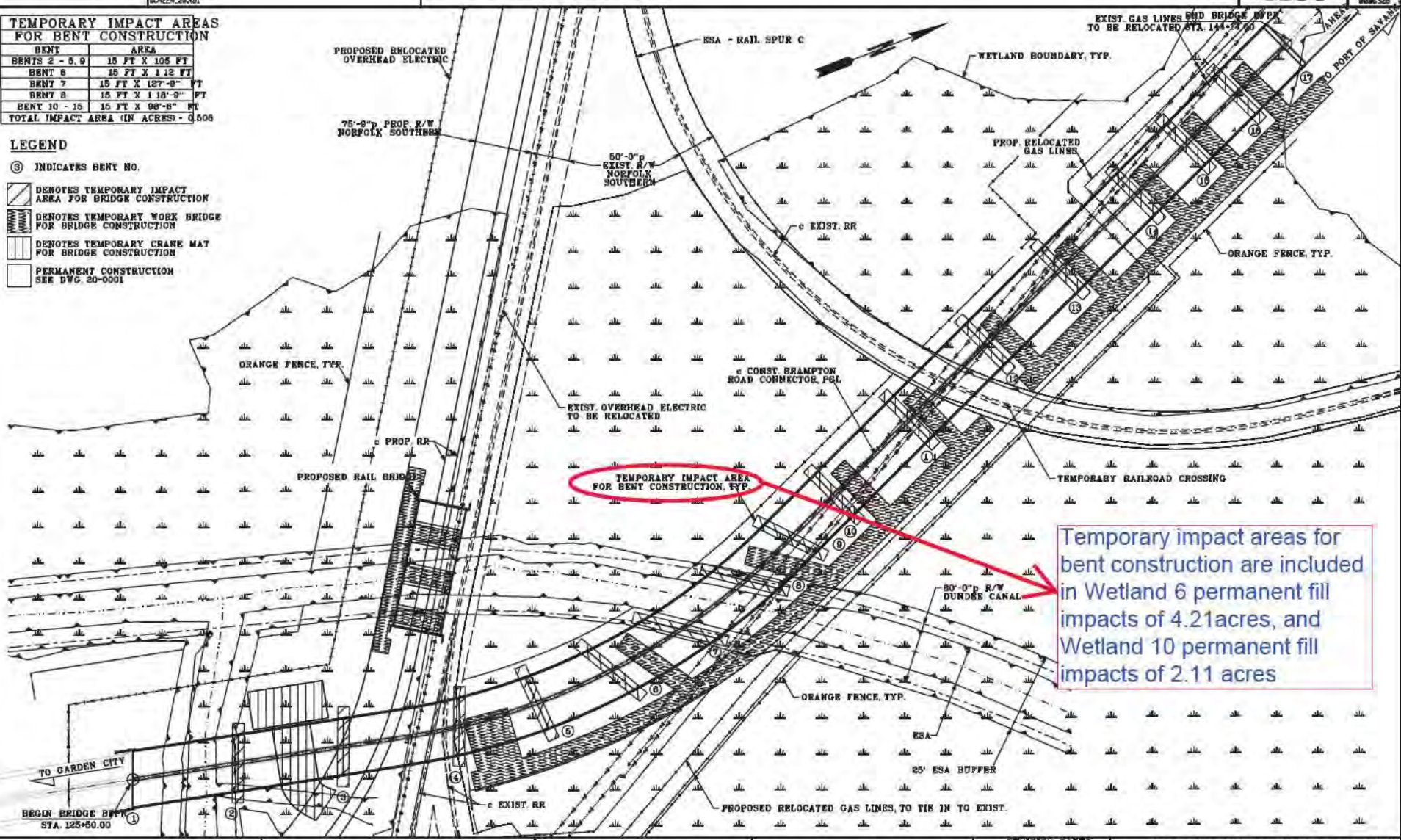
20-0002

TEMPORARY IMPACT AREAS FOR BENT CONSTRUCTION

BENT	AREA
BENTS 2 - 5, 9	15 FT X 105 FT
BENT 6	15 FT X 112 FT
BENT 7	15 FT X 127'-0" FT
BENT 8	15 FT X 118'-9" FT
BENT 10 - 15	15 FT X 98'-6" FT
TOTAL IMPACT AREA (IN ACRES) - 0.506	

LEGEND

- ③ INDICATES BENT NO.
-  DENOTES TEMPORARY IMPACT AREA FOR BRIDGE CONSTRUCTION
-  DENOTES TEMPORARY WORK BRIDGE FOR BRIDGE CONSTRUCTION
-  DENOTES TEMPORARY CRANE MAT FOR BRIDGE CONSTRUCTION
-  PERMANENT CONSTRUCTION SEE DWG. 20-0001



Temporary impact areas for bent construction are included in Wetland 6 permanent fill impacts of 4.21 acres, and Wetland 10 permanent fill impacts of 2.11 acres



moffatt & nichol



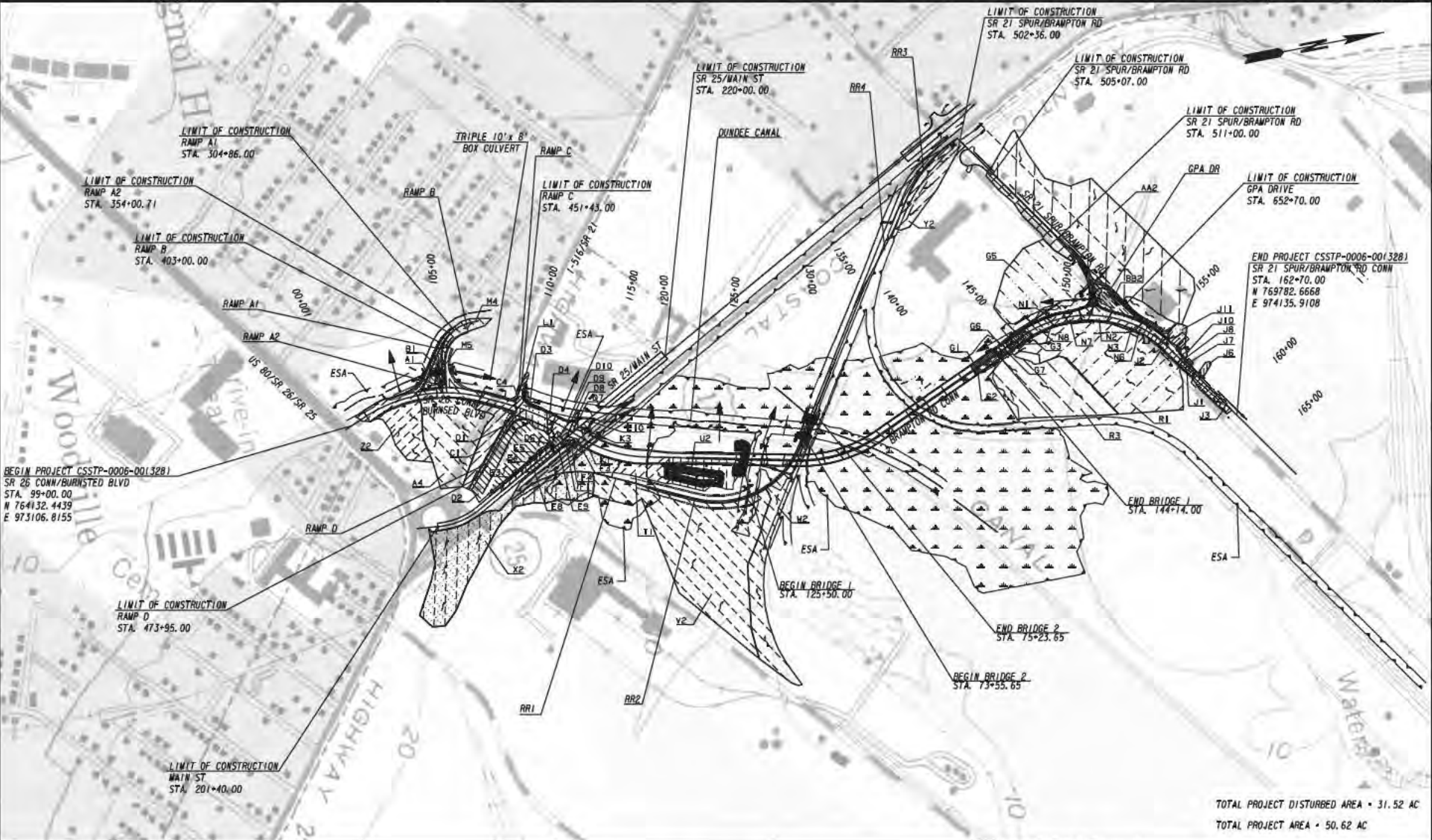
REVISION DATES

NO.	DATE	DESCRIPTION

CONSTRUCTION STAGING DETAIL
BRAMPTON ROAD CONNECTOR
TEMPORARY ACCESS ROADS

REVISION	DATE	BY	DATE	BY
DESIGNED				
BACKCHECKED				
CORRECTED				
VERIFIED				

DRAWING No. 20-0003



TOTAL PROJECT DISTURBED AREA • 31.52 AC
 TOTAL PROJECT AREA • 50.62 AC

BEGIN PROJECT CSSTP-0006-001328)
 SR 26 CONN/BURNSTED BLVD
 STA. 99+00.00
 N 764132.4439
 E 973106.8155

DRAINAGE AREA MAP
BRAMPTON ROAD CONNECTOR



REVISION DATES	

CHECKED:	DATE:	DRAWING No.
		21-0001

Table with columns: DRAINAGE AREA DESIGNATION, STATION, OFFSET, STRUCTURE TYPE, DESCRIPTION, SLOPE ANGLE, AREA (AC), DRAINAGE (AC), RUNOFF COEFFICIENT, PRE (Q199, Q229, Q309, Q190, Q220, Q300, Q190, V110, V190, V1000, V100, HW50, HW100, HW50, HW100), POST (V100, V190, V1000, V100, HW50, HW100, HW50, HW100), and RESERVING WATER. Rows include various drainage structures like RCP, catch basins, and drop inlets.



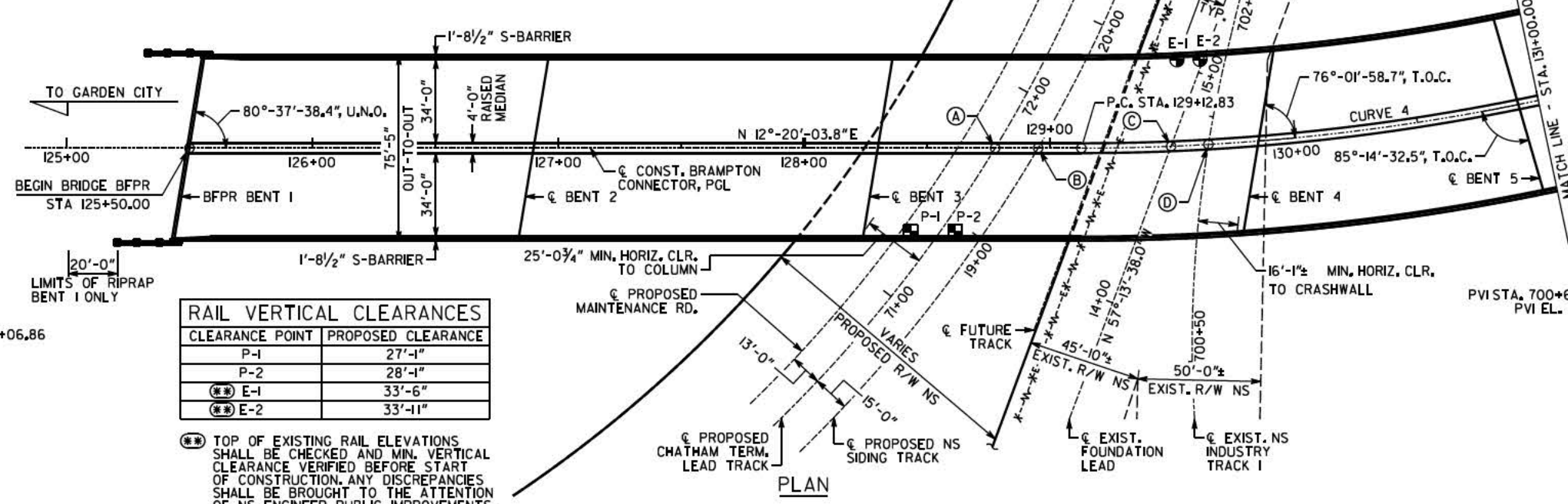
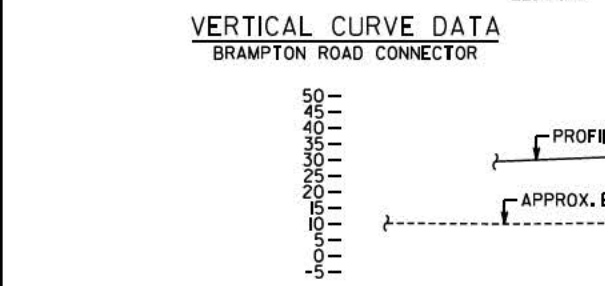
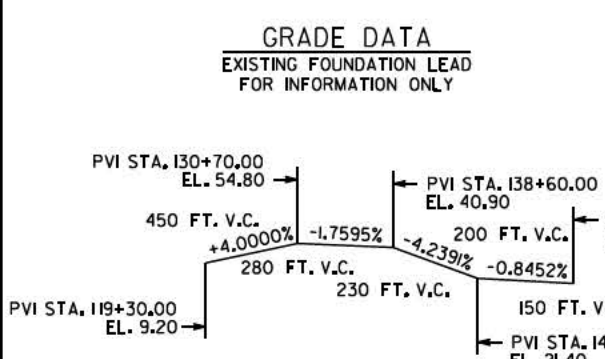
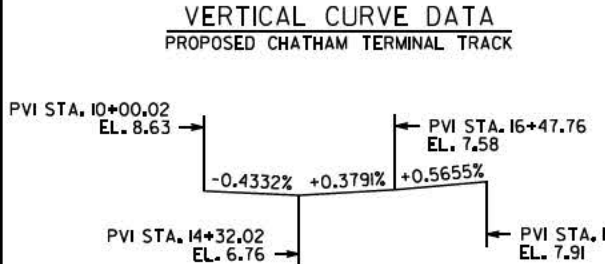
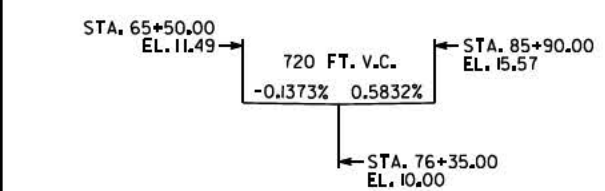
REVISION DATES table with columns: NO., DATE, DESCRIPTION.

DRAINAGE AREA MAP
BRAMPTON ROAD CONNECTOR

Table with columns: CHECKED, DATE, DRAWING No., DATE, CORRECTED, DATE, 21-0002, VERIFIED, DATE.

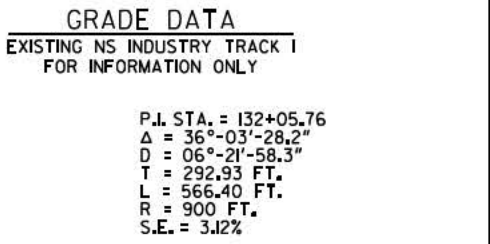
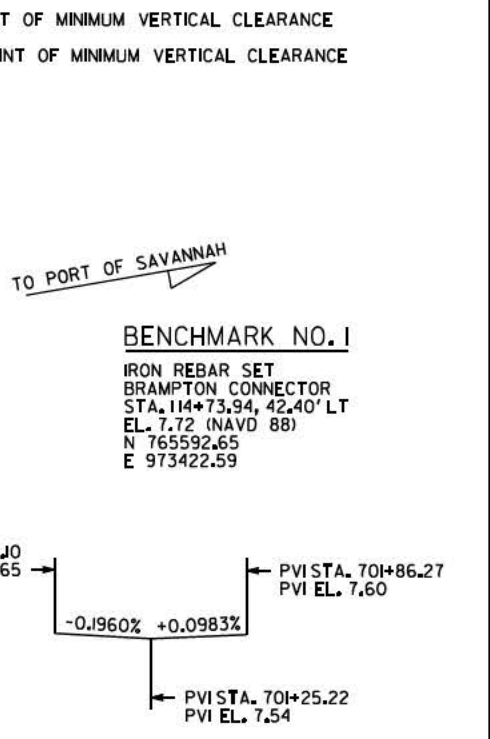
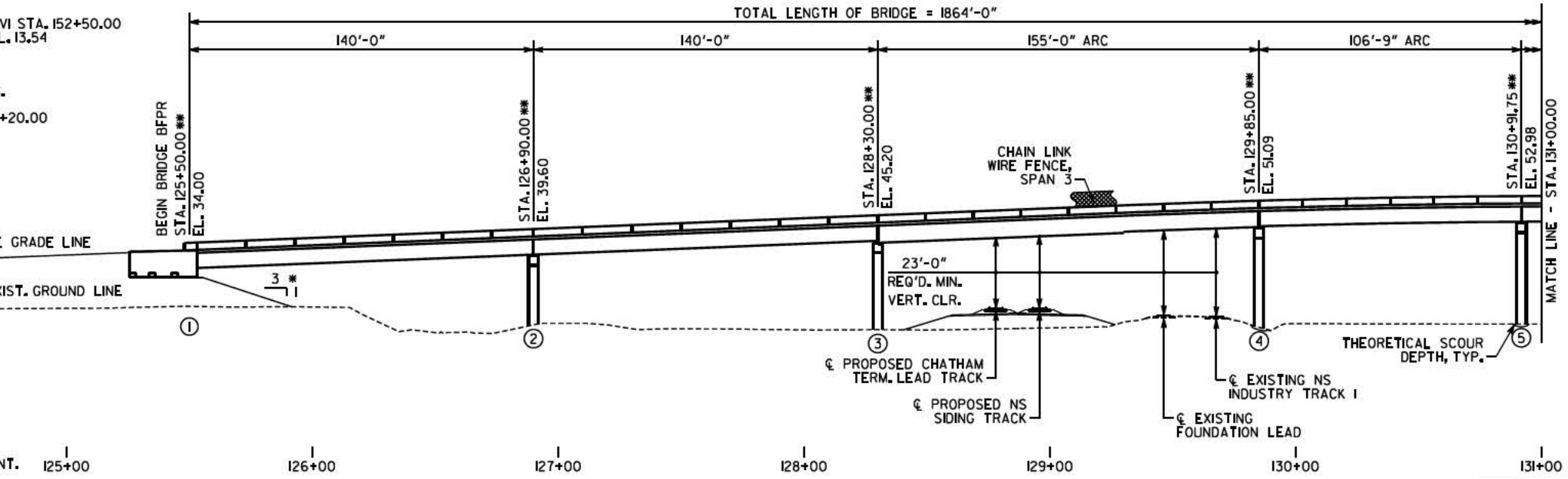
35 Series Plansheets (Bridge Plans)

TABLE OF RAIL INTERSECTIONS				
INTERSECTION	BRAMPTON STA.	RAIL STA.	INTERSECTION ANGLE	TRACK DESCRIPTION
A	128+77.71	71+73.74	58°-38'-46.6"	CHATHAM TERMINAL LEAD TRACK (PROPOSED)
B	128+95.21	19+43.48	59°-31'-57.4"	NS SIDING TRACK (PROPOSED)
C	129+49.13	14+67.90	67°-14'-12.2", T.O.C.	FOUNDATION LEAD (EXIST)
D	129+64.52	70+38.64	77°-30'-13.7", T.O.C.	NS INDUSTRY TRACK (EXIST)



RAIL VERTICAL CLEARANCES	
CLEARANCE POINT	PROPOSED CLEARANCE
P-1	27'-1"
P-2	28'-1"
E-1	33'-6"
E-2	33'-11"

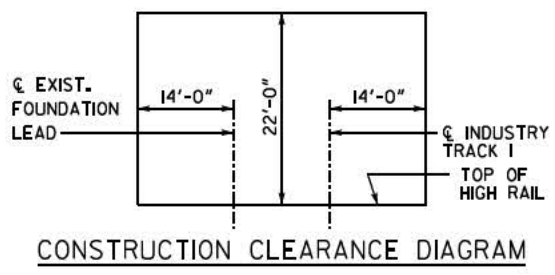
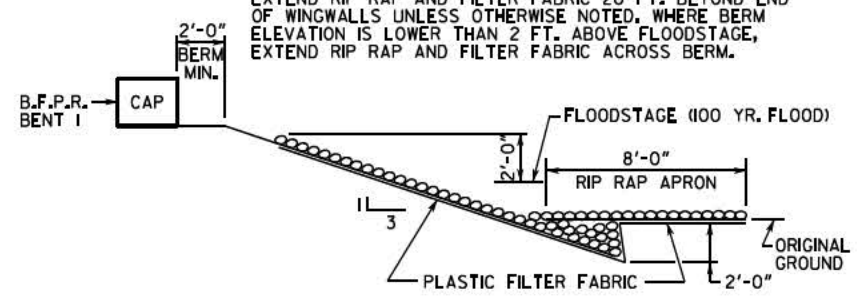
TOP OF EXISTING RAIL ELEVATIONS SHALL BE CHECKED AND MIN. VERTICAL CLEARANCE VERIFIED BEFORE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF NS ENGINEER PUBLIC IMPROVEMENTS.



BERM ELEVATIONS	
END BENT	ELEVATIONS
I LT	23.44
I RT	22.86

FOR END ROLL STAKING PURPOSES ONLY.

PLACE RIP RAP AND FILTER FABRIC FROM 2 FT. BELOW ORIGINAL GROUND TO 2 FT. ABOVE FLOODSTAGE. EXTEND RIP RAP AND FILTER FABRIC 20 FT. BEYOND END OF WINGWALLS UNLESS OTHERWISE NOTED, WHERE BERM ELEVATION IS LOWER THAN 2 FT. ABOVE FLOODSTAGE, EXTEND RIP RAP AND FILTER FABRIC ACROSS BERM.



- NOTES**
1. END BENT PILES NOT SHOWN.
 2. BRIDGE TO BE BUILT ON A SUPERELEVATION AS SHOWN ON THE SUPERELEVATION DATA DETAIL, DWG. 35-0003.
 3. T.O.C. DENOTES ANGLES MEASURED TO THE TANGENT OF CURVE AT INTERSECTION OF CONST. AND BENT.
 4. FENCE OVER SPANS 3 AND 11 ONLY.
 5. A DECK DRAINAGE SYSTEM IS REQUIRED.
 6. BENTS 2 THROUGH 4 ARE PARALLEL TO BENT 1.

DRAWING NO.	35-0001
BRIDGE SHEET	1 OF 4

DATE	REVISIONS

MOFFATT & NICHOL, INC.
1201 PEACHTREE STREET, NE
SUITE 1106
ATLANTA, GA 30361
404-205-8530

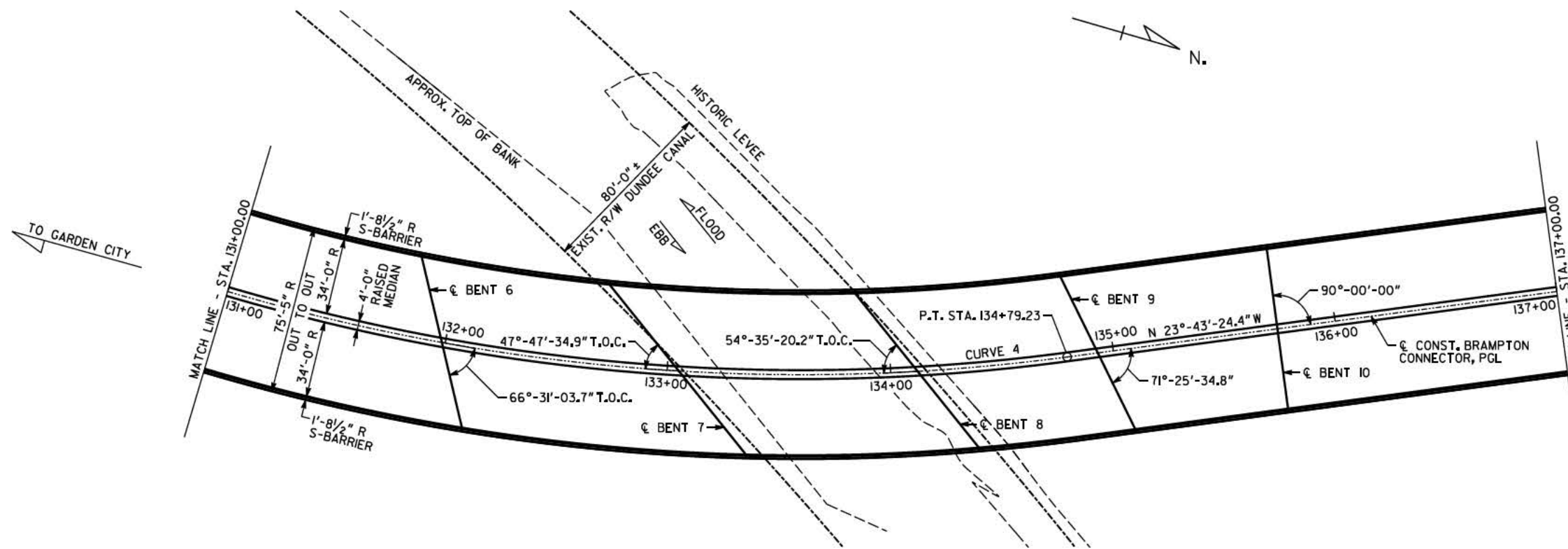
GEORGIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

PRELIMINARY LAYOUT
BRAMPTON ROAD CONNECTOR OVER
NS RAILWAY AND DUNDEE CANAL
CHATHAM COUNTY

SCALE: 1" = 30'-0" (UNLESS OTHERWISE NOTED) JULY 2020

DESIGNED	EMT	CHECKED	RSC	REVIEWED	DLC/SKG
DRAWN	EMT/MMK	DESIGN GROUP	STB	APPROVED	WMD

PROJECT P.J. NO. 0006328
BRIDGE NO. 1



PLAN

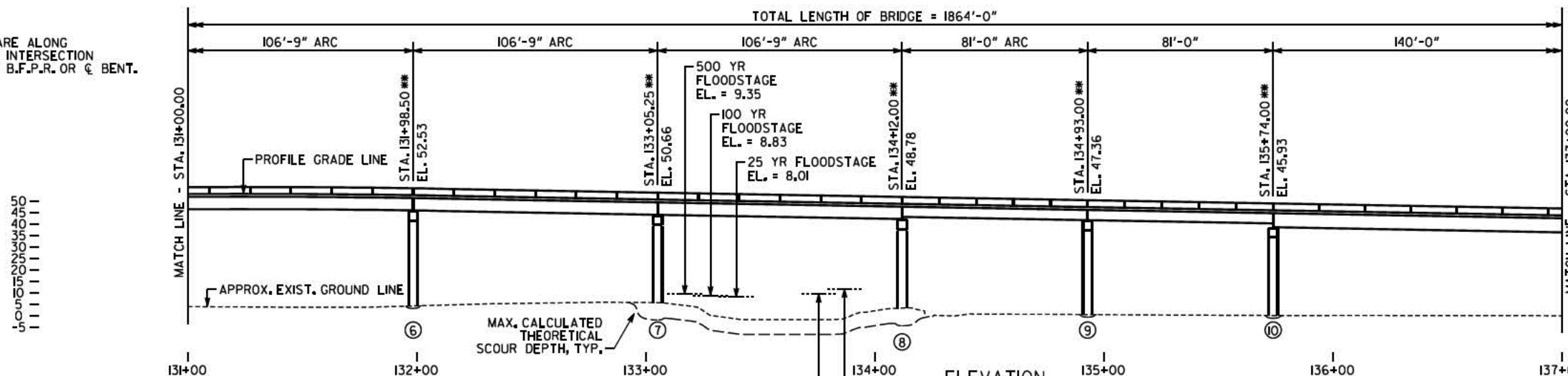
LEGEND

- T.O.C. DENOTES ANGLES MEASURED TO TANGENT OF CURVE AT € BENT
- R - RADIAL DIMENSION
- ARC - ARC DIMENSION

NOTE

BENTS 7 AND 8 ARE PARALLEL.

** STATIONS AND ELEVATIONS ARE ALONG PROFILE GRADE LINE AT THE INTERSECTION OF PROFILE GRADE LINE AND B.F.P.R. OR € BENT.



ELEVATION

DRAINAGE DATA

DRAINAGE AREA ----- 4.5 SQ MILES

CANAL FLOODS

FLOOD FREQUENCY	TOTAL DISCHARGE	MEAN VELOCITY	AREA OF OPENING UNDER FLOODSTAGE	BACKWATER
25 YEAR	1,420 CFS	0.68 FPS	2096 SQ FT	0.25 FT
100 YEAR	1,690 CFS	0.73 FPS	2308 SQ FT	0.58 FT
500 YEAR	1,970 CFS	0.81 FPS	2434 SQ FT	0.98 FT

STORMTIDE FLOODS

FLOOD FREQUENCY	TOTAL DISCHARGE	MEAN VELOCITY	AREA OF OPENING UNDER FLOODSTAGE	BACKWATER
25 YEAR	1,464 CFS	0.72 FPS	2011 SQ FT	N/A
100 YEAR (APPROACH RAIL OVERTOPPING)	2,367 CFS	0.50 FPS	4702 SQ FT	N/A

NOTE: THEORETICAL SCOUR IN THE CANAL IS 6.5 FT FOR THE 500 YEAR STORM

THEORETICAL SCOUR DEPTH (FT)

	100 YEAR STORM			500 YEAR STORM			100 YEAR STORM TIDE		
	CONTRACTION	LOCAL	TOTAL	CONTRACTION	LOCAL	TOTAL	CONTRACTION	LOCAL	TOTAL
	BENT 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BENT 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BENT 4	N/A	1.0	1.0	N/A	1.1	1.1	N/A	0.9	0.9
BENT 5	N/A	1.0	1.0	N/A	1.1	1.1	N/A	0.9	0.9
BENT 6	N/A	1.0	1.0	N/A	1.1	1.1	N/A	0.9	0.9
BENT 7	0	0.7	0.7	6.5	0.8	7.3	6.5	1.1	7.6
BENT 8	0	1.2	1.2	6.5	1.2	7.7	6.5	1.1	7.6
BENT 9	N/A	1.2	1.2	N/A	1.2	1.2	N/A	1.1	1.1
BENT 10	N/A	1.1	1.1	N/A	1.2	1.2	N/A	1.1	1.1
BENT 11	N/A	1.1	1.1	N/A	1.2	1.2	N/A	1.1	1.1
BENT 12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BENT 13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BENT 14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BENT 15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATE	REVISIONS

DRAWING NO. 35-0002
BRIDGE SHEET 2 OF 4

BRIDGE NO. 1

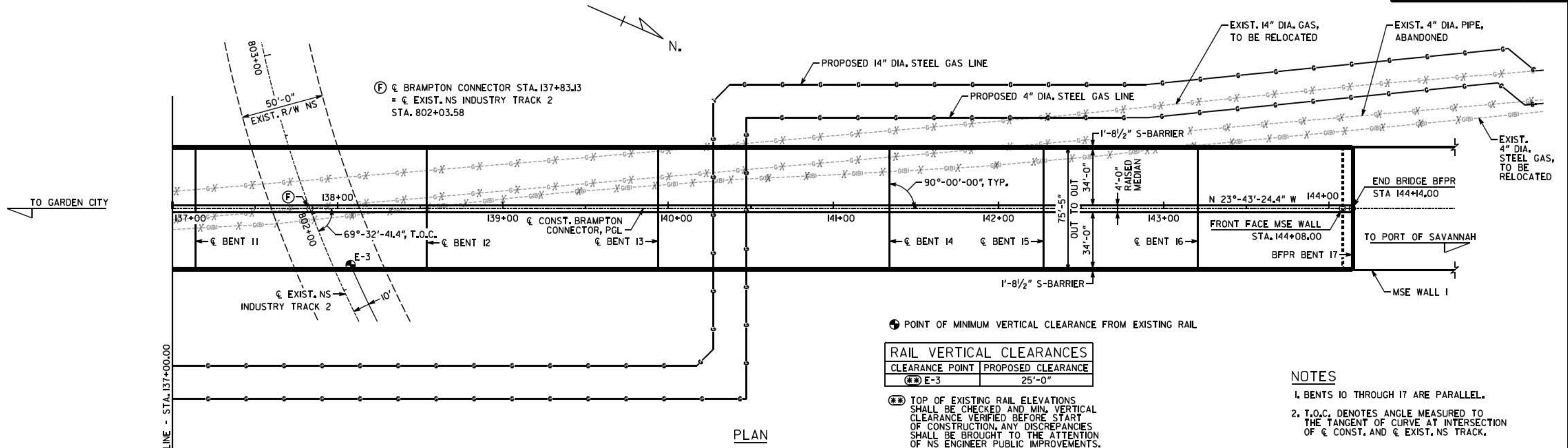
MOFFATT & NICHOL, INC.
1201 PEACHTREE STREET, NE
SUITE 1106
ATLANTA, GA 30361
404-205-8530

GEORGIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

PRELIMINARY LAYOUT
BRAMPTON ROAD CONNECTOR OVER
NS RAILWAY AND DUNDEE CANAL
CHATHAM COUNTY 0006328

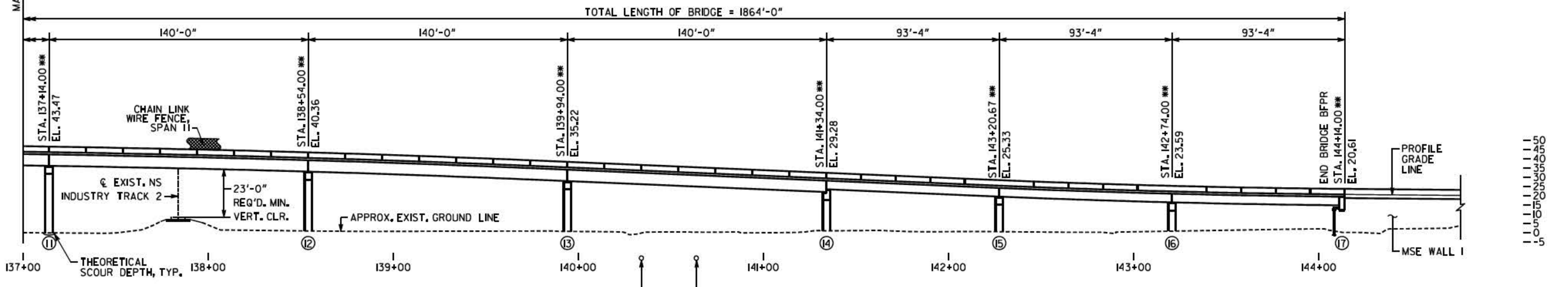
SCALE: 1" = 30'-0" (UNLESS OTHERWISE NOTED) JULY 2020

DESIGNED EMT	CHECKED RSC	REVIEWED DLC/SKG
DRAWN EMT/MMK	DESIGN GROUP STB	APPROVED WMD

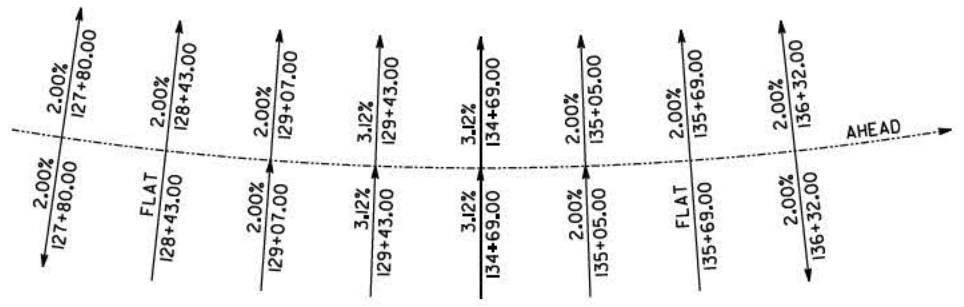


PLAN

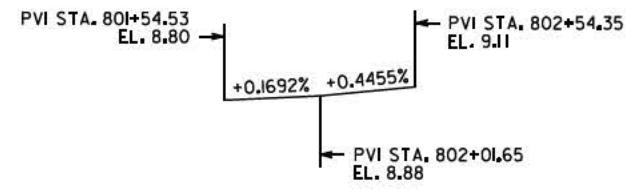
** STATIONS AND ELEVATIONS ARE ALONG PROFILE GRADE LINE AT THE INTERSECTION OF PROFILE GRADE LINE AND B.F.P.R. OR C BENT.



ELEVATION



SUPERELEVATION DATA
NO SCALE



GRADE DATA
EXISTING NS INDUSTRY TRACK 2
FOR INFORMATION ONLY

BENCHMARK NO. 2
IRON REBAR SET
BRAMPTON CONNECTOR STA. 150+40.32, 323.32' LT
EL. 9.95 (NAVD 88)
N 768978.91
E 972989.69

DATE	REVISIONS

BRIDGE NO. 1

MOFFATT & NICHOL, INC.
1201 PEACHTREE STREET, NE
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ATLANTA, GA 30361
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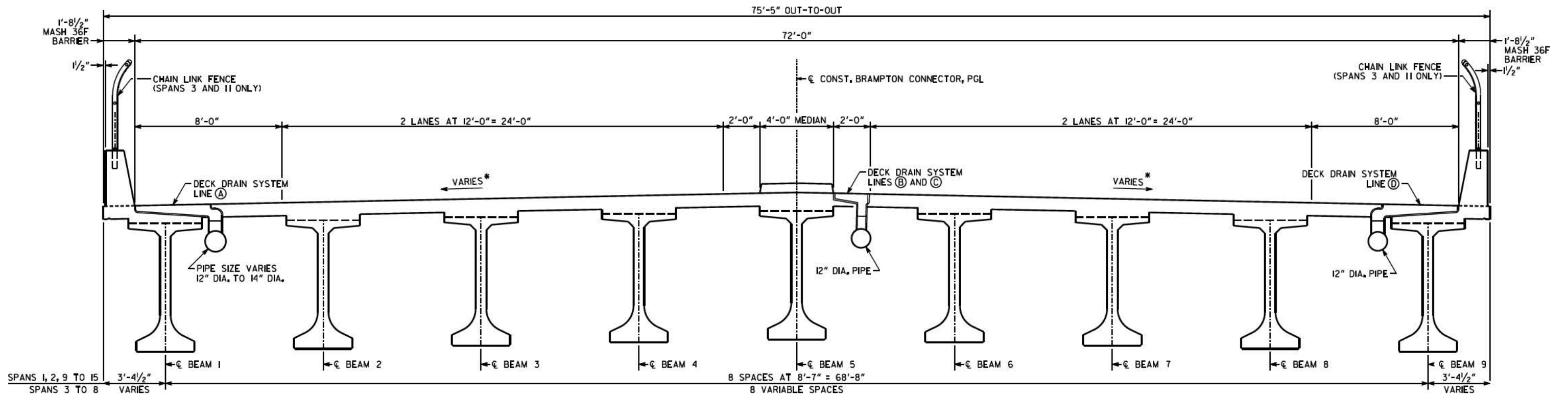
GEORGIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

PRELIMINARY LAYOUT
BRAMPTON ROAD CONNECTOR OVER
NS RAILWAY AND DUNDEE CANAL
CHATHAM COUNTY 0006328

SCALE: 1" = 30'-0" (UNLESS OTHERWISE NOTED) JULY 2020

DESIGNED EMT	CHECKED RSC	REVIEWED DLC/SKG
DRAWN EMT/MMK	DESIGN GROUP STB	APPROVED WMD

DRAWING NO. 35-0003
BRIDGE SHEET 3 OF 4



TYPICAL SECTION
SPAN 3 SHOWN WITH 84" FLORIDA I-BEAMS (FIB)
ALL OTHER SPANS SIMILAR WITH BULB TEES

*SEE SUPERELEVATION DATA TABLE ON DWG. 35-0003
 LINE A STA. 135+10.00 TO END BRIDGE
 LINE B BEGIN BRIDGE TO STA. 131+22.00 (IN SUPERELEVATION)
 LINE C STA. 131+27.00 TO END BRIDGE (IN SUPERELEVATION)
 LINE D STA. 137+20.00 TO END BRIDGE

PROPOSED BRIDGE CONSISTS OF

- 6 - 140'-0" BULB TEE, 74 IN, PSC BEAM SPANS ----- SPECIAL DESIGN
 - 1 - 155'-0" FIB, 84 IN, PSC BEAM SPAN ----- SPECIAL DESIGN
 - 4 - 106'-9" BULB TEE, 65 IN, PSC BEAM SPANS ----- SPECIAL DESIGN
 - 2 - 81'-0" BULB TEE, 54 IN, PSC BEAM SPANS ----- SPECIAL DESIGN
 - 3 - 93'-4" BULB TEE, 56 IN, PSC BEAM SPANS ----- SPECIAL DESIGN
 - 1 - PSC PILE END BENT ----- SPECIAL DESIGN
 - 1 - PSC PILE END BENT WITH MSE WALL ABUTMENT ----- SPECIAL DESIGN
 - 15 - CONCRETE INTERMEDIATE BENTS ----- SPECIAL DESIGN
- 24 IN. TYPE I RIP RAP

DESIGN DATA

- SPECIFICATIONS ----- AASHTO LRFD 7TH EDITION 2014
(DESIGNED FOR SEISMIC PERFORMANCE ZONE 2, SDI = 0.234)
- DESIGN VEHICLE LIVE LOAD ----- HL-93
- FUTURE PAVING ALLOWANCE ----- 30 LBS PER SQ FT

EXISTING UTILITIES UNDER BRIDGE

- GAS MAIN ----- ATLANTA GAS LIGHT
- GAS MAIN ----- SNG/EL PASO/KINDER MORGAN
- AERIAL ELECTRIC ----- GEORGIA POWER

TRAFFIC DATA (BRAMPTON ROAD CONNECTOR)

- TRAFFIC ----- AADT = 5700 (2021)
AADT = 7400 (2041)
- DESIGN SPEED ----- 35 MPH
- TRUCKS ----- 79% (AM), 82.5% (PM)
- 24 HR TRUCKS ----- 53.5%
- DIRECTIONAL ----- 50%

BRIDGE NO. 1

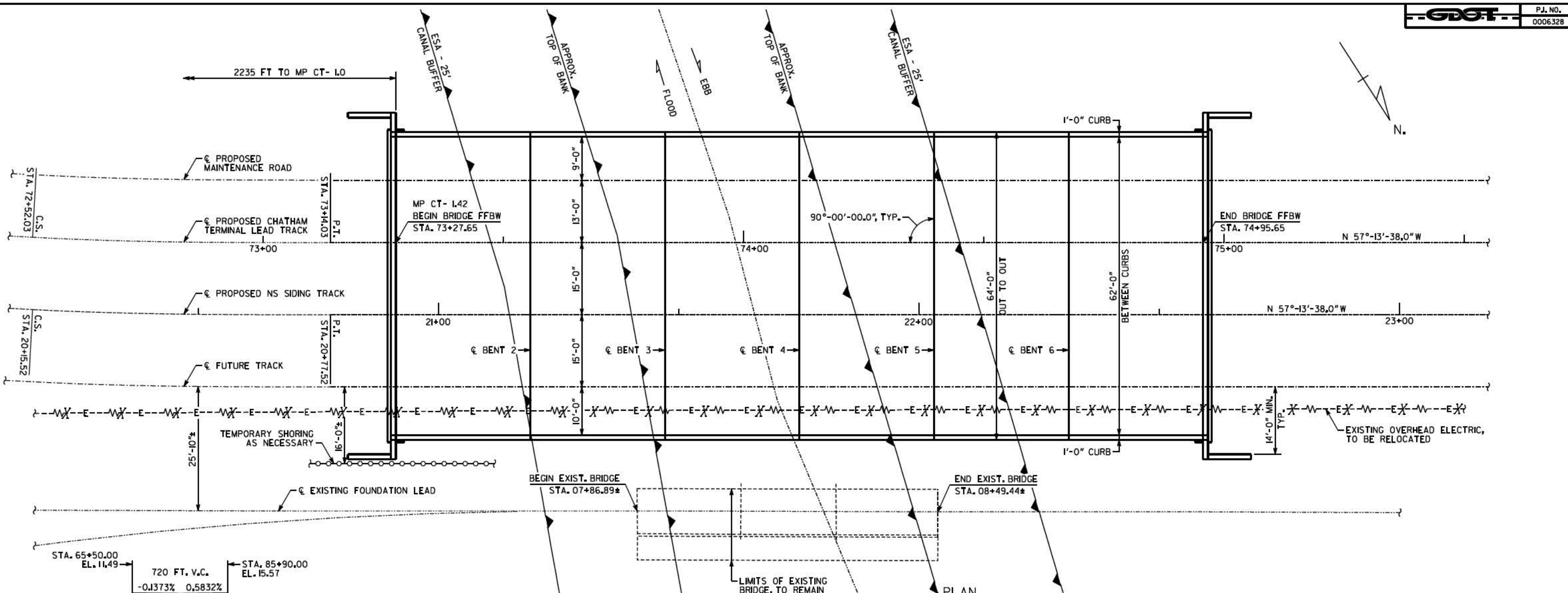
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SUITE 1106
ATLANTA, GA 30361
404-205-8530

DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

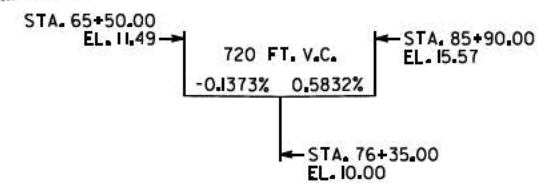
PRELIMINARY SECTION
BRAMPTON ROAD CONNECTOR OVER
NS RAILWAY AND DUNDEE CANAL
CHATHAM COUNTY 0006328

SCALE: 3/8" = 1'-0" (UNLESS OTHERWISE NOTED) JULY 2020

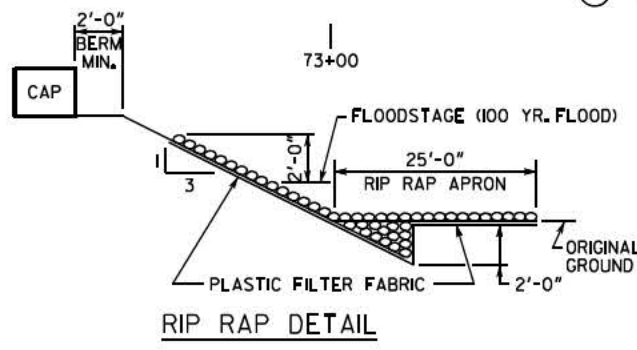
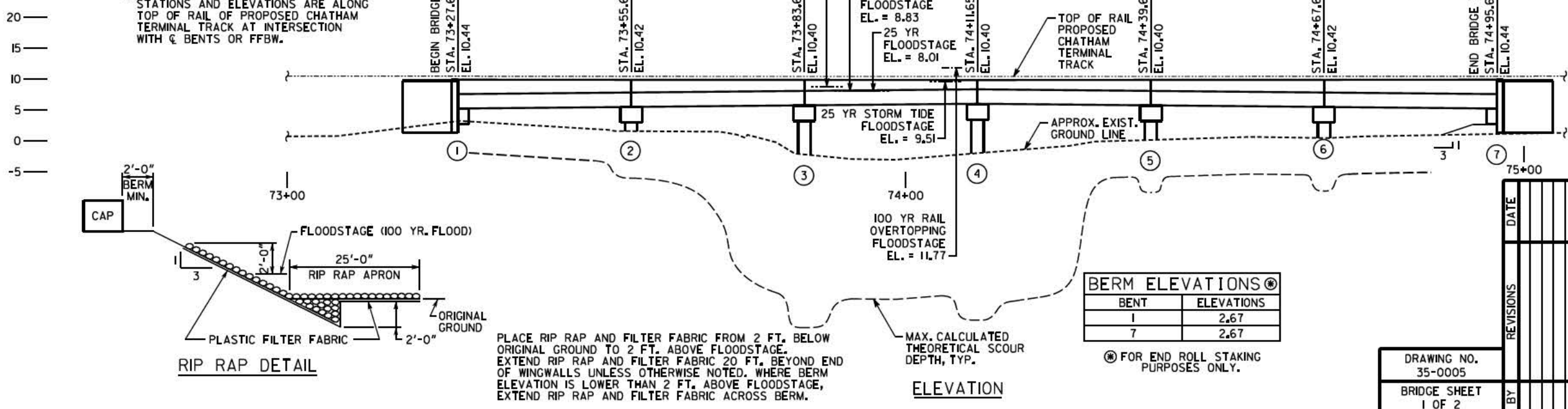
DRAWING NO. 35-0004	BRIDGE SHEET 4 OF 4	DESIGNED EMT DRAWN EMT	CHECKED RSC DESIGN GROUP STB	REVIEWED DLC/SKG APPROVED WMD
------------------------	------------------------	---------------------------	---------------------------------	----------------------------------



VERTICAL CURVE DATA
PROPOSED CHATHAM TERMINAL TRACK



** STATIONS AND ELEVATIONS ARE ALONG TOP OF RAIL OF PROPOSED CHATHAM TERMINAL TRACK AT INTERSECTION WITH BENTS OR FFBW.



PLACE RIP RAP AND FILTER FABRIC FROM 2 FT. BELOW ORIGINAL GROUND TO 2 FT. ABOVE FLOODSTAGE. EXTEND RIP RAP AND FILTER FABRIC 20 FT. BEYOND END OF WINGWALLS UNLESS OTHERWISE NOTED. WHERE BERM ELEVATION IS LOWER THAN 2 FT. ABOVE FLOODSTAGE, EXTEND RIP RAP AND FILTER FABRIC ACROSS BERM.

ELEVATION

NOTES

1. END BENT PILES NOT SHOWN.
2. ALL BENTS ARE PARALLEL.
3. FFBW = FRONT FACE OF BACKWALL.
4. SEE DWG. 35-0006 FOR HYDRAULIC DATA TABLES.

PROJECT P.J. NO. 0006328

BRIDGE NO. 2



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DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

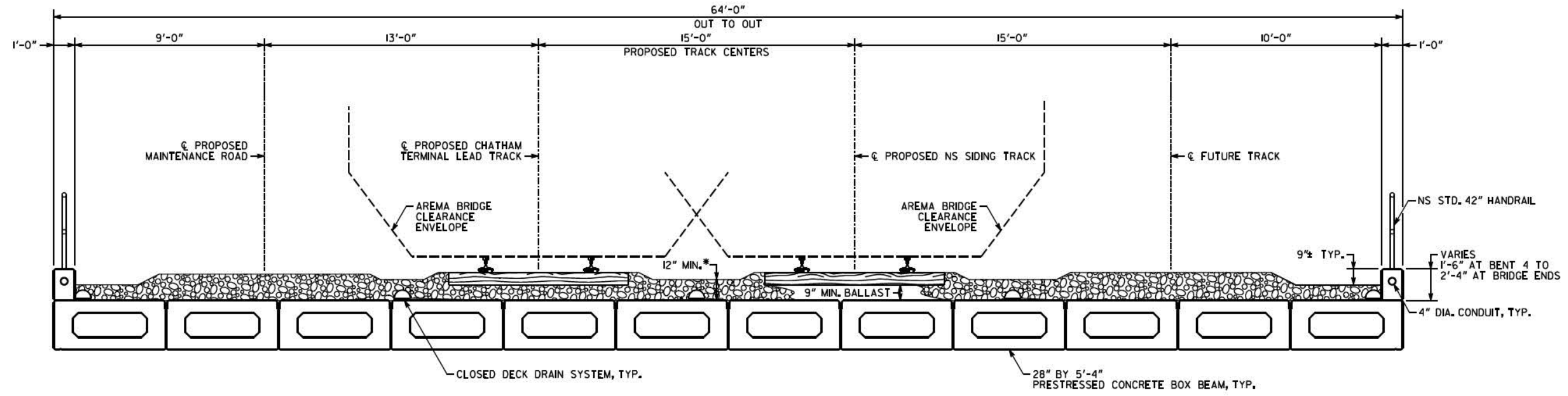
PRELIMINARY LAYOUT
NORFOLK SOUTHERN RAILWAY
OVER DUNDEE CANAL
CHATHAM COUNTY 0006328

SCALE: 1" = 10'-0" (UNLESS OTHERWISE NOTED) JULY 2020

DESIGNED EMT CHECKED RSC REVIEWED DLC/SKG
DRAWN EMT DESIGN GROUP STB APPROVED WMD

DRAWING NO. 35-0005
BRIDGE SHEET 1 OF 2

REVISIONS	DATE



TYPICAL SECTION

*BALLAST DEPTH IS 12" MIN. AT BENT 4, VARYING TO 1'-10" AT BRIDGE ENDS TO ACCOMMODATE 1.0% LONGITUDINAL PIPE SLOPE FOR DRAINAGE.

DRAINAGE DATA

DRAINAGE AREA ----- 4.5 SQ MILES

CANAL FLOODS

FLOOD FREQUENCY	TOTAL DISCHARGE	MEAN VELOCITY	AREA OF OPENING UNDER FLOODSTAGE	BACKWATER
25 YEAR	1,420 CFS	4.19 FPS	339 SQ FT	0.43 FT
100 YEAR	1,690 CFS	4.98 FPS	339 SQ FT	0.81 FT
500 YEAR	1,970 CFS	5.81 FPS	339 SQ FT	1.38 FT

STORMTIDE FLOODS

FLOOD FREQUENCY	TOTAL DISCHARGE	MEAN VELOCITY	AREA OF OPENING UNDER FLOODSTAGE	BACKWATER
25 YEAR	1,459 CFS	4.30 FPS	339 SQ FT	N/A
100 YEAR	2,214 CFS	6.49 FPS	339 SQ FT	N/A
(APPROACH RAIL OVERTOPPING)				

PROPOSED BRIDGE CONSISTS OF

- 6 - 28'-0", 28" DEEP PSC BOX BEAM SPANS ----- SPECIAL DESIGN (NS08-28-28)
- 2 - STEEL H-PILE END BENTS ----- SPECIAL DESIGN
- 5 - STEEL H-PILE INTERMEDIATE BENTS ----- SPECIAL DESIGN

24" TYPE I RIP RAP

DESIGN DATA

- SPECIFICATIONS ----- AREMA MANUAL, 2018
- COOPER E80 ----- DIESEL IMPACT ALLOWED

EXISTING UTILITIES

- OVERHEAD ELECTRIC ----- GEORGIA POWER

	THEORETICAL SCOUR DEPTH (FT)					
	100 YEAR STORM			500 YEAR STORM*		
	CONTRACTION	LOCAL	TOTAL	CONTRACTION	LOCAL	TOTAL
BENT 2	4.0	2.3	6.3	5.2	2.4	7.6
BENT 3	18.7	4.7	23.4	22.7	5.3	28.0
BENT 4	18.7	3.7	22.4	22.7	4.3	27.0
BENT 5	4.1	2.3	6.4	6.0	2.5	8.5
BENT 6	4.1	2.5	6.6	6.0	2.6	8.6

*MAXIMUM OF 500 YR RIVERINE AND 100 YR STORM TIDE
NOTE: THE THEORETICAL SCOUR IN THE CANAL IS 22.7 FT FOR THE 500 YEAR STORM

BRIDGE NO. 2

MOFFATT & NICHOL, INC.
1201 PEACHTREE STREET, NE
SUITE 1106
ATLANTA, GA 30361
404-205-8530

GEORGIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

PRELIMINARY SECTION
NORFOLK SOUTHERN RAILWAY
OVER DUNDEE CANAL
CHATHAM COUNTY 0006328

SCALE: 3/8" = 1'-0" (UNLESS OTHERWISE NOTED) JULY 2020

DRAWING NO. 35-0006	DESIGNED EMT	CHECKED RSC	REVIEWED DLC/SKG
BRIDGE SHEET 2 OF 2	DRAWN EMT	DESIGN GROUP STB	APPROVED WMD